

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
 Data File : BN005463.D  
 Acq On : 03 May 2019 21:38  
 Operator : JU/SJ  
 Sample : K2602-09  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFH58

## 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:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 3.217    | 37         | 39       | 46        | rVB2  | 29729       | 29481      | 0.59%        | 0.039%     |
| 2      | 3.699    | 118        | 121      | 129       | rVB   | 35908       | 54134      | 1.09%        | 0.072%     |
| 3      | 4.769    | 301        | 303      | 311       | rVB4  | 20966       | 32933      | 0.66%        | 0.044%     |
| 4      | 6.775    | 637        | 644      | 656       | rBV   | 600210      | 1067078    | 21.49%       | 1.426%     |
| 5      | 6.934    | 665        | 671      | 681       | rBV   | 506561      | 825213     | 16.62%       | 1.102%     |
| 6      | 7.128    | 697        | 704      | 715       | rBV   | 672362      | 1069615    | 21.54%       | 1.429%     |
| 7      | 7.587    | 775        | 782      | 791       | rBV   | 1003294     | 1619419    | 32.61%       | 2.163%     |
| 8      | 7.658    | 791        | 794      | 799       | rVB3  | 10348       | 16250      | 0.33%        | 0.022%     |
| 9      | 8.287    | 895        | 901      | 912       | rBV   | 638778      | 1109747    | 22.35%       | 1.483%     |
| 10     | 8.734    | 969        | 977      | 986       | rBV   | 673557      | 1163566    | 23.43%       | 1.554%     |
| 11     | 9.169    | 1046       | 1051     | 1056      | rBV   | 32210       | 45580      | 0.92%        | 0.061%     |
| 12     | 9.446    | 1091       | 1098     | 1111      | rBV   | 558750      | 942741     | 18.99%       | 1.259%     |
| 13     | 9.816    | 1157       | 1161     | 1167      | rVB4  | 9869        | 14997      | 0.30%        | 0.020%     |
| 14     | 9.904    | 1170       | 1176     | 1182      | rBV3  | 39117       | 60753      | 1.22%        | 0.081%     |
| 15     | 9.981    | 1182       | 1189     | 1202      | rBV   | 736590      | 1385467    | 27.90%       | 1.851%     |
| 16     | 10.352   | 1242       | 1252     | 1262      | rBV   | 1513837     | 2562391    | 51.60%       | 3.423%     |
| 17     | 10.493   | 1269       | 1276     | 1298      | rBV   | 507081      | 1015705    | 20.45%       | 1.357%     |
| 18     | 11.434   | 1428       | 1436     | 1444      | rBV3  | 31351       | 100962     | 2.03%        | 0.135%     |
| 19     | 11.951   | 1520       | 1524     | 1529      | rBV4  | 11191       | 22176      | 0.45%        | 0.030%     |
| 20     | 13.128   | 1719       | 1724     | 1728      | rVB4  | 8188        | 12245      | 0.25%        | 0.016%     |
| 21     | 13.640   | 1804       | 1811     | 1815      | rBV   | 1549584     | 2157174    | 43.44%       | 2.882%     |
| 22     | 13.687   | 1815       | 1819     | 1831      | rVV   | 591999      | 869645     | 17.51%       | 1.162%     |
| 23     | 13.910   | 1850       | 1857     | 1879      | rBV   | 1873841     | 2852671    | 57.45%       | 3.811%     |
| 24     | 14.145   | 1892       | 1897     | 1900      | rVB4  | 11675       | 15180      | 0.31%        | 0.020%     |
| 25     | 14.222   | 1903       | 1910     | 1925      | rBV2  | 2413369     | 3684140    | 74.19%       | 4.922%     |
| 26     | 14.445   | 1942       | 1948     | 1963      | rBV   | 284162      | 694734     | 13.99%       | 0.928%     |
| 27     | 14.845   | 2011       | 2016     | 2025      | rBV   | 108356      | 186051     | 3.75%        | 0.249%     |
| 28     | 15.104   | 2056       | 2060     | 2063      | rBV2  | 11226       | 12438      | 0.25%        | 0.017%     |
| 29     | 15.222   | 2073       | 2080     | 2096      | rBV   | 2395246     | 3535147    | 71.19%       | 4.723%     |
| 30     | 15.357   | 2098       | 2103     | 2116      | rVV   | 342316      | 598036     | 12.04%       | 0.799%     |
| 31     | 15.463   | 2117       | 2121     | 2125      | rVB   | 26794       | 34755      | 0.70%        | 0.046%     |
| 32     | 15.969   | 2204       | 2207     | 2211      | rVV3  | 14560       | 21246      | 0.43%        | 0.028%     |
| 33     | 16.016   | 2211       | 2215     | 2221      | rVB5  | 10133       | 18420      | 0.37%        | 0.025%     |
| 34     | 16.139   | 2229       | 2236     | 2240      | rBV6  | 7292        | 14985      | 0.30%        | 0.020%     |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 16.186 | 2240 | 2244 | 2249 | rVV7 | 9676    | 17807   | 0.36%  | 0.024% |
| 36 | 16.322 | 2261 | 2267 | 2271 | rBV6 | 10861   | 19598   | 0.39%  | 0.026% |
| 37 | 16.534 | 2297 | 2303 | 2307 | rBV  | 35123   | 50434   | 1.02%  | 0.067% |
| 38 | 16.763 | 2338 | 2342 | 2354 | rVB4 | 28329   | 50989   | 1.03%  | 0.068% |
| 39 | 16.975 | 2372 | 2378 | 2389 | rVV2 | 3062014 | 4629232 | 93.22% | 6.185% |
| 40 | 17.075 | 2389 | 2395 | 2411 | rVB  | 2486042 | 3734909 | 75.21% | 4.990% |
| 41 | 17.233 | 2418 | 2422 | 2426 | rVB6 | 9689    | 14402   | 0.29%  | 0.019% |
| 42 | 17.675 | 2491 | 2497 | 2500 | rBV6 | 14185   | 24128   | 0.49%  | 0.032% |
| 43 | 17.898 | 2531 | 2535 | 2550 | rBV3 | 212780  | 399116  | 8.04%  | 0.533% |
| 44 | 18.198 | 2582 | 2586 | 2589 | rBV3 | 27564   | 37513   | 0.76%  | 0.050% |
| 45 | 18.604 | 2653 | 2655 | 2661 | rVB4 | 15073   | 21077   | 0.42%  | 0.028% |
| 46 | 18.839 | 2690 | 2695 | 2697 | rBV4 | 28487   | 44789   | 0.90%  | 0.060% |
| 47 | 18.922 | 2706 | 2709 | 2714 | rVB7 | 16725   | 23583   | 0.47%  | 0.032% |
| 48 | 19.022 | 2722 | 2726 | 2729 | rBV  | 30539   | 35626   | 0.72%  | 0.048% |
| 49 | 19.204 | 2751 | 2757 | 2765 | rBV6 | 102955  | 199197  | 4.01%  | 0.266% |
| 50 | 19.275 | 2765 | 2769 | 2773 | rVB  | 32499   | 43447   | 0.87%  | 0.058% |
| 51 | 19.345 | 2777 | 2781 | 2782 | rBV3 | 15697   | 18675   | 0.38%  | 0.025% |
| 52 | 19.386 | 2782 | 2788 | 2799 | rVB  | 3317042 | 4655905 | 93.76% | 6.220% |
| 53 | 19.627 | 2827 | 2829 | 2830 | rVV2 | 18096   | 15396   | 0.31%  | 0.021% |
| 54 | 19.657 | 2831 | 2834 | 2838 | rVB4 | 33247   | 43613   | 0.88%  | 0.058% |
| 55 | 19.780 | 2851 | 2855 | 2859 | rBV2 | 98787   | 116969  | 2.36%  | 0.156% |
| 56 | 19.827 | 2859 | 2863 | 2869 | rVV7 | 38605   | 56312   | 1.13%  | 0.075% |
| 57 | 19.922 | 2874 | 2879 | 2884 | rBV  | 284698  | 373270  | 7.52%  | 0.499% |
| 58 | 19.969 | 2884 | 2887 | 2891 | rVB3 | 74997   | 90153   | 1.82%  | 0.120% |
| 59 | 20.051 | 2898 | 2901 | 2903 | rBV4 | 13036   | 12016   | 0.24%  | 0.016% |
| 60 | 20.127 | 2909 | 2914 | 2921 | rBV6 | 64958   | 92780   | 1.87%  | 0.124% |
| 61 | 20.204 | 2922 | 2927 | 2931 | rVV  | 462841  | 576883  | 11.62% | 0.771% |
| 62 | 20.257 | 2932 | 2936 | 2939 | rVV3 | 57159   | 65628   | 1.32%  | 0.088% |
| 63 | 20.298 | 2940 | 2943 | 2948 | rVV4 | 30677   | 35256   | 0.71%  | 0.047% |
| 64 | 20.363 | 2949 | 2954 | 2959 | rVV6 | 121260  | 195371  | 3.93%  | 0.261% |
| 65 | 20.410 | 2959 | 2962 | 2964 | rBV4 | 14425   | 14736   | 0.30%  | 0.020% |
| 66 | 20.469 | 2967 | 2972 | 2975 | rVV3 | 65903   | 110647  | 2.23%  | 0.148% |
| 67 | 20.522 | 2975 | 2981 | 2987 | rVV2 | 288924  | 521167  | 10.50% | 0.696% |
| 68 | 20.574 | 2987 | 2990 | 2993 | rVB4 | 58492   | 63658   | 1.28%  | 0.085% |
| 69 | 20.674 | 3002 | 3007 | 3012 | rVB  | 335441  | 396591  | 7.99%  | 0.530% |
| 70 | 20.739 | 3014 | 3018 | 3021 | rBV3 | 89614   | 104911  | 2.11%  | 0.140% |
| 71 | 20.833 | 3030 | 3034 | 3038 | rBV6 | 39110   | 52685   | 1.06%  | 0.070% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 20.874 | 3038 | 3041 | 3044 | rBV4 | 24955   | 25450   | 0.51%   | 0.034% |
| 73  | 20.939 | 3047 | 3052 | 3059 | rBV3 | 800508  | 1334569 | 26.88%  | 1.783% |
| 74  | 20.998 | 3059 | 3062 | 3069 | rVB4 | 181900  | 261542  | 5.27%   | 0.349% |
| 75  | 21.057 | 3069 | 3072 | 3075 | rBV5 | 43165   | 63285   | 1.27%   | 0.085% |
| 76  | 21.139 | 3083 | 3086 | 3088 | rBV2 | 41725   | 54903   | 1.11%   | 0.073% |
| 77  | 21.204 | 3091 | 3097 | 3101 | rVV  | 3850944 | 4965686 | 100.00% | 6.634% |
| 78  | 21.233 | 3101 | 3102 | 3107 | rVB  | 526987  | 458754  | 9.24%   | 0.613% |
| 79  | 21.380 | 3124 | 3127 | 3132 | rVB  | 240280  | 304352  | 6.13%   | 0.407% |
| 80  | 21.545 | 3151 | 3155 | 3160 | rBV4 | 219241  | 288659  | 5.81%   | 0.386% |
| 81  | 21.604 | 3161 | 3165 | 3171 | rVB5 | 132156  | 165838  | 3.34%   | 0.222% |
| 82  | 21.674 | 3173 | 3177 | 3180 | rVB4 | 112242  | 141218  | 2.84%   | 0.189% |
| 83  | 21.816 | 3197 | 3201 | 3213 | rBV  | 520386  | 681812  | 13.73%  | 0.911% |
| 84  | 22.010 | 3231 | 3234 | 3237 | rBV5 | 56935   | 63605   | 1.28%   | 0.085% |
| 85  | 22.227 | 3267 | 3271 | 3274 | rBV4 | 110142  | 140750  | 2.83%   | 0.188% |
| 86  | 22.269 | 3274 | 3278 | 3284 | rVB  | 487398  | 661954  | 13.33%  | 0.884% |
| 87  | 22.768 | 3357 | 3363 | 3367 | rBV  | 1089263 | 1559528 | 31.41%  | 2.083% |
| 88  | 22.810 | 3368 | 3370 | 3381 | rVB5 | 92839   | 147252  | 2.97%   | 0.197% |
| 89  | 23.263 | 3440 | 3447 | 3452 | rBV  | 1933453 | 3440073 | 69.28%  | 4.596% |
| 90  | 23.316 | 3452 | 3456 | 3463 | rVV  | 601586  | 1035499 | 20.85%  | 1.383% |
| 91  | 23.398 | 3463 | 3470 | 3490 | rVB  | 2185763 | 4405981 | 88.73%  | 5.886% |
| 92  | 23.945 | 3557 | 3563 | 3570 | rVB  | 707659  | 1349621 | 27.18%  | 1.803% |
| 93  | 24.027 | 3571 | 3577 | 3590 | rBV2 | 442055  | 1088398 | 21.92%  | 1.454% |
| 94  | 24.663 | 3679 | 3685 | 3694 | rBV2 | 373051  | 825559  | 16.63%  | 1.103% |
| 95  | 25.098 | 3751 | 3759 | 3771 | rBV2 | 758457  | 1699163 | 34.22%  | 2.270% |
| 96  | 25.515 | 3823 | 3830 | 3840 | rVB2 | 400203  | 1019253 | 20.53%  | 1.362% |
| 97  | 25.651 | 3846 | 3853 | 3864 | rBV2 | 517719  | 1589629 | 32.01%  | 2.124% |
| 98  | 26.351 | 3966 | 3972 | 3988 | rVB9 | 275497  | 861496  | 17.35%  | 1.151% |
| 99  | 26.504 | 3992 | 3998 | 4010 | rVB3 | 174986  | 536374  | 10.80%  | 0.717% |
| 100 | 26.662 | 4018 | 4025 | 4040 | rVB4 | 285358  | 878276  | 17.69%  | 1.173% |

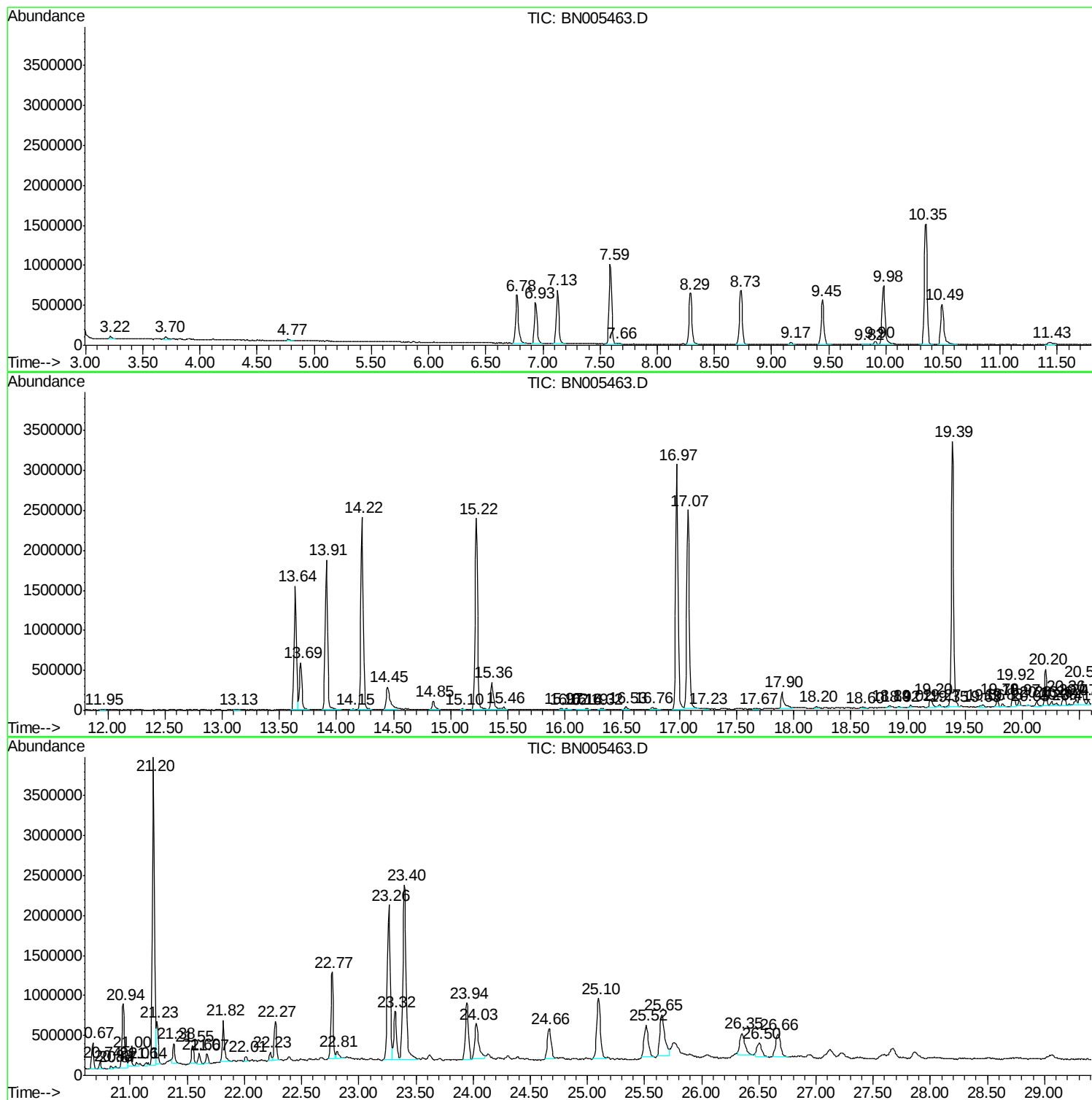
Sum of corrected areas: 74852023

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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



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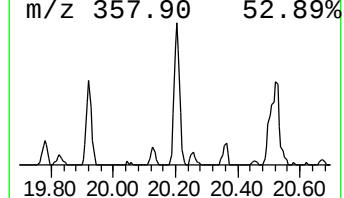
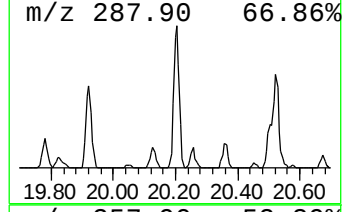
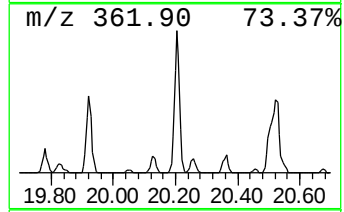
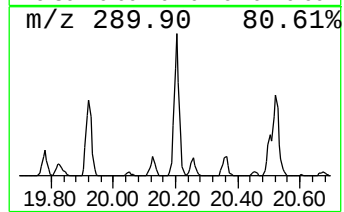
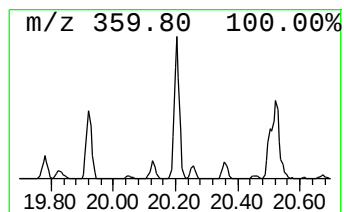
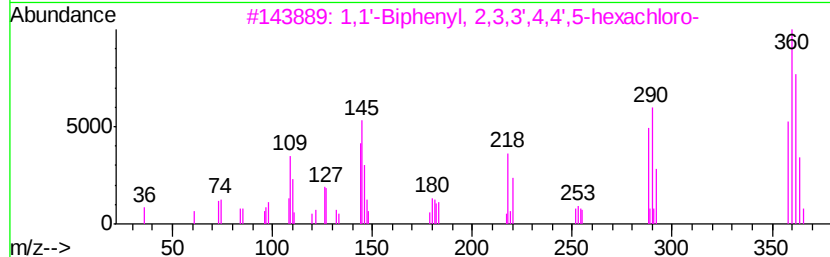
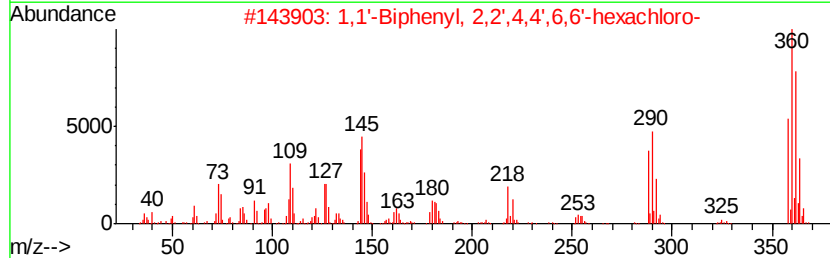
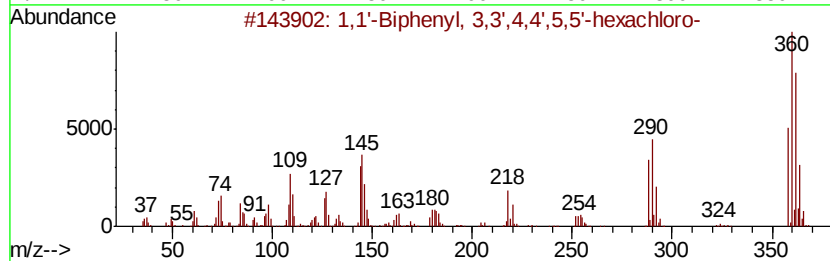
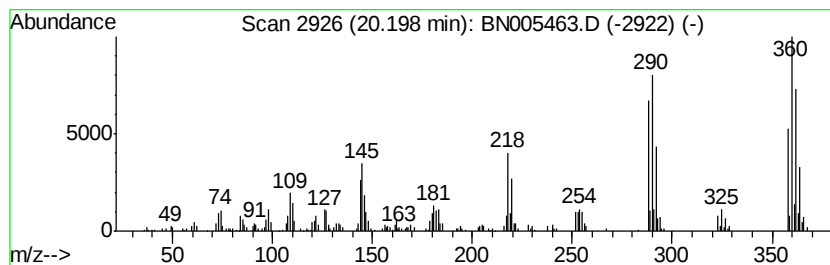
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 1,1'-Biphenyl, 3,3',4,4',5,... Concentration Rank 15

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 20.20   | 2.32 ng/ul                          | 576883       | Chrysene-d12     | 21.20       |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358          | C12H4Cl6         | 032774-16-6 | 99   |      |
| 2       | 1,1'-Biphenyl, 2,2',4,4',6,6'-he... | 358          | C12H4Cl6         | 033979-03-2 | 99   |      |
| 3       | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358          | C12H4Cl6         | 038380-08-4 | 99   |      |
| 4       | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358          | C12H4Cl6         | 041411-62-5 | 98   |      |
| 5       | 1,1'-Biphenyl, 2,2',3,4',5,5'-he... | 358          | C12H4Cl6         | 051908-16-8 | 96   |      |



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Quant Title : SVOA CALIBRATION

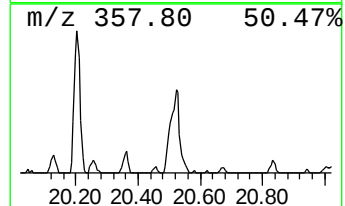
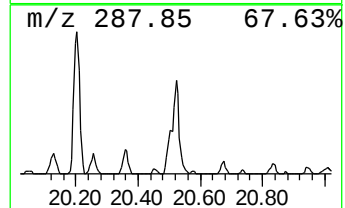
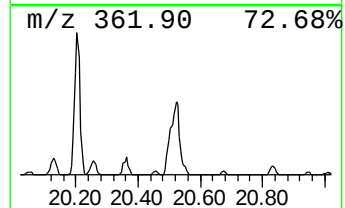
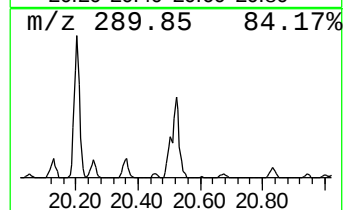
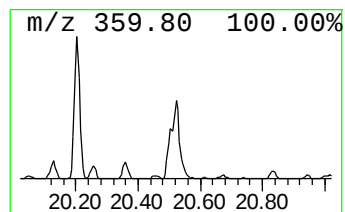
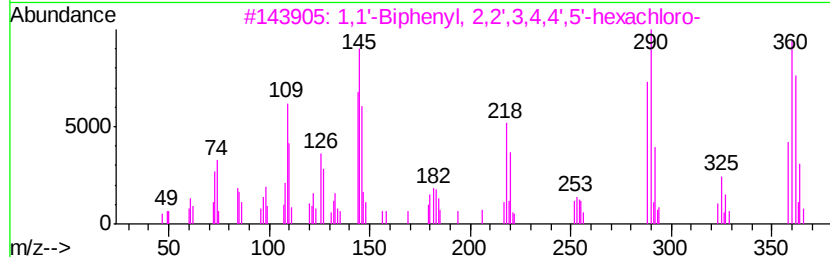
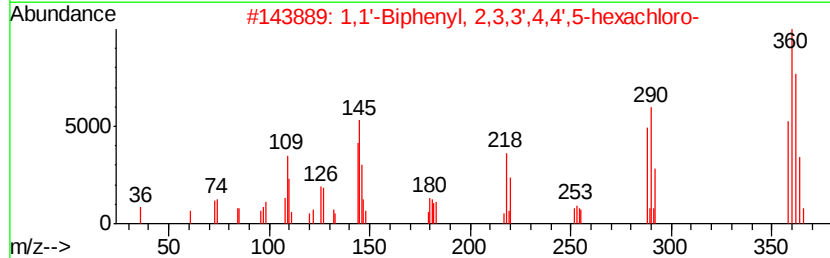
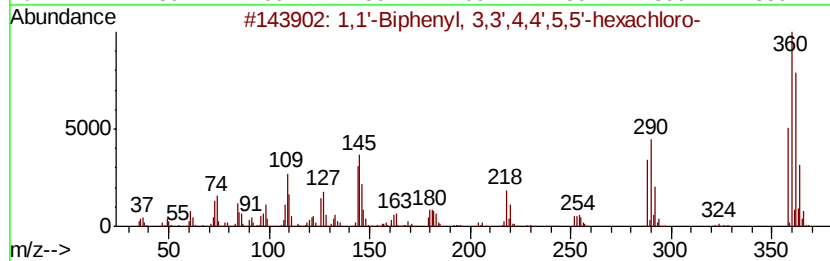
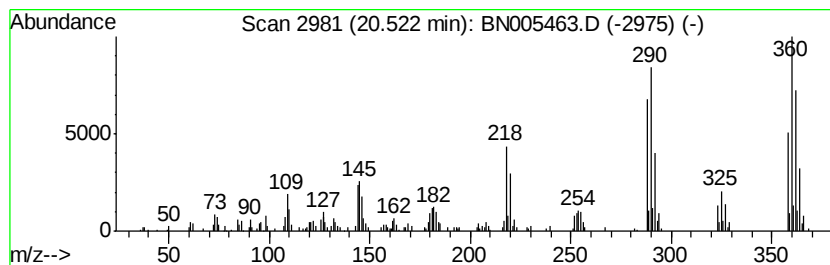
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 1,1'-Biphenyl, 2,3,3',4,4',... Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.52 | 2.10 ng/ul | 521167 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358 | C12H4Cl6 | 038380-08-4 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,4,4',6-Hex... | 358 | C12H4Cl6 | 056030-56-9 | 98   |
| 5    |    | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

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Quant Title : SVOA CALIBRATION

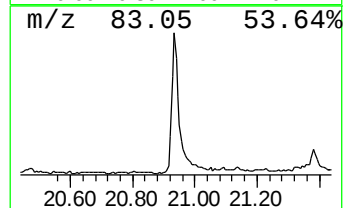
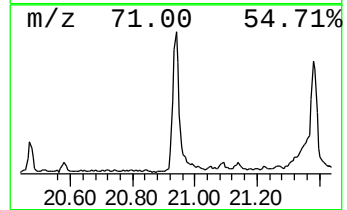
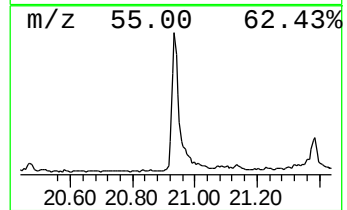
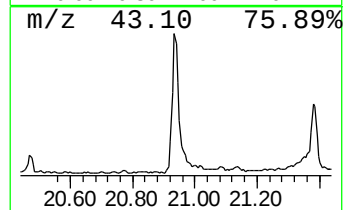
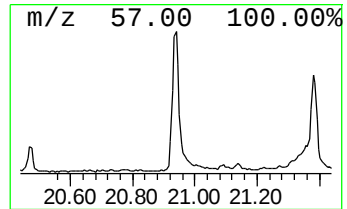
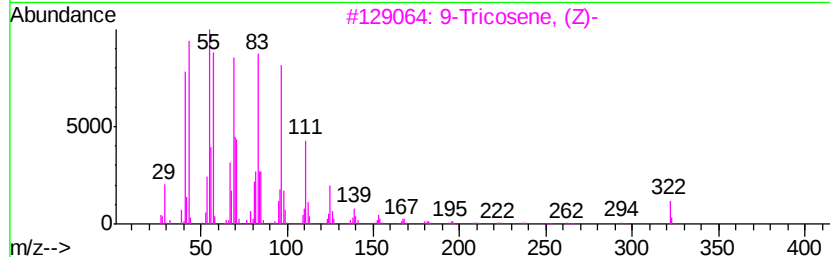
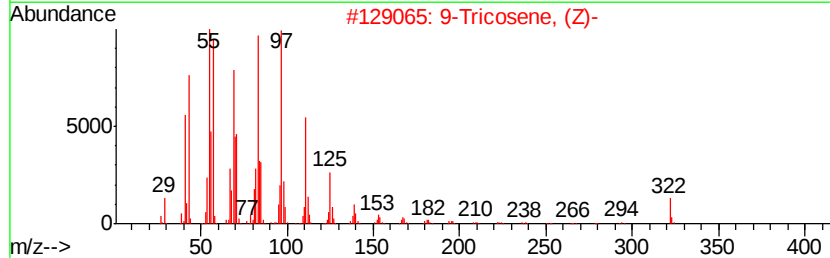
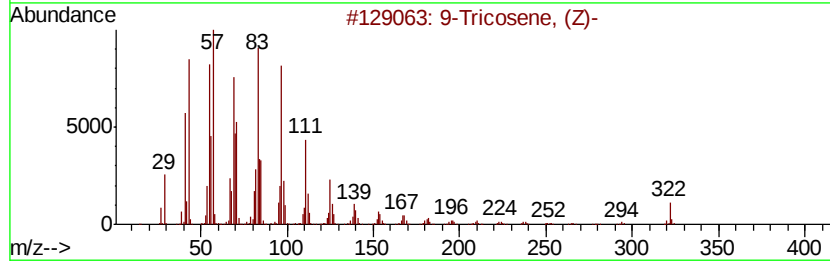
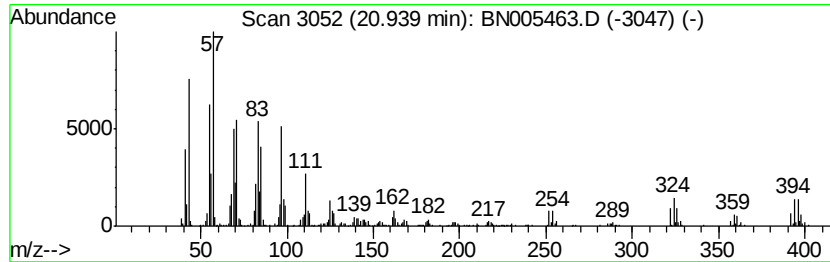
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Cyclic20.94 Concentration Rank 5

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.94 | 5.38 ng/ul | 1334570 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | 9-Tricosene, (Z)-     | 322 | C23H46  | 027519-02-4  | 96   |
| 2    |    | 9-Tricosene, (Z)-     | 322 | C23H46  | 027519-02-4  | 91   |
| 3    |    | 9-Tricosene, (Z)-     | 322 | C23H46  | 027519-02-4  | 78   |
| 4    |    | Tricosane             | 324 | C23H48  | 000638-67-5  | 25   |
| 5    |    | 4-Methyl-Z-4-docosene | 322 | C23H46  | 1000131-17-0 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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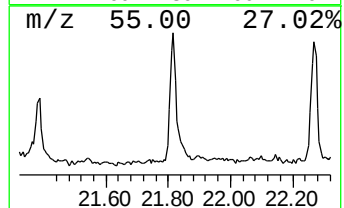
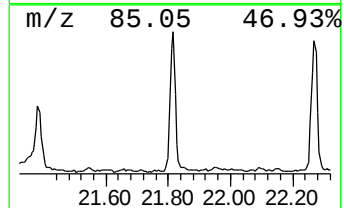
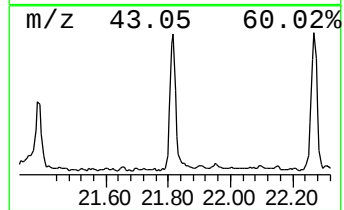
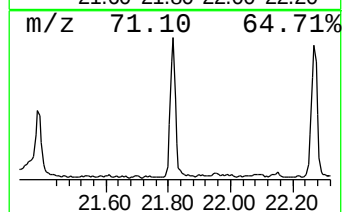
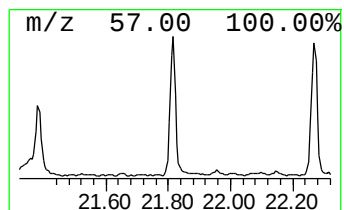
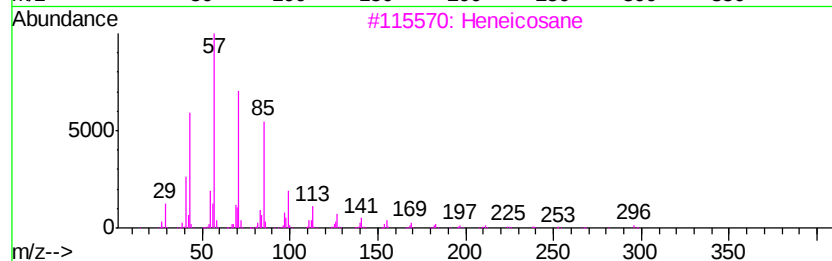
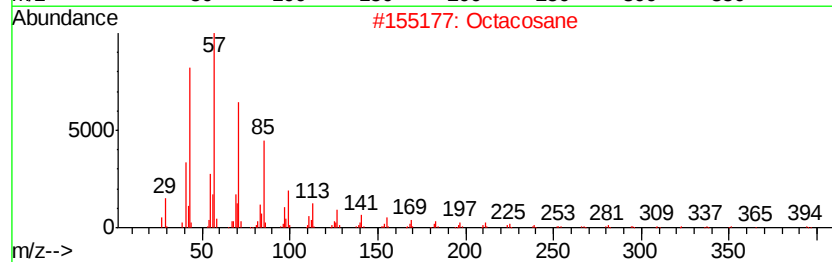
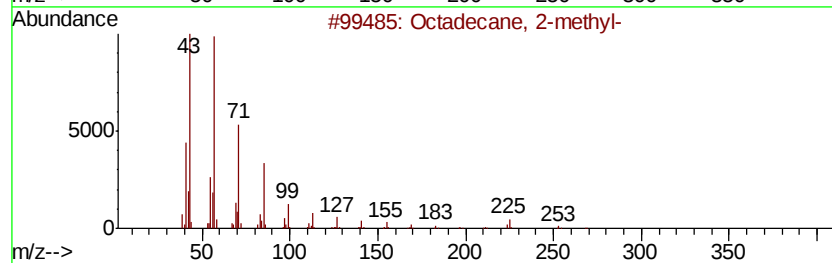
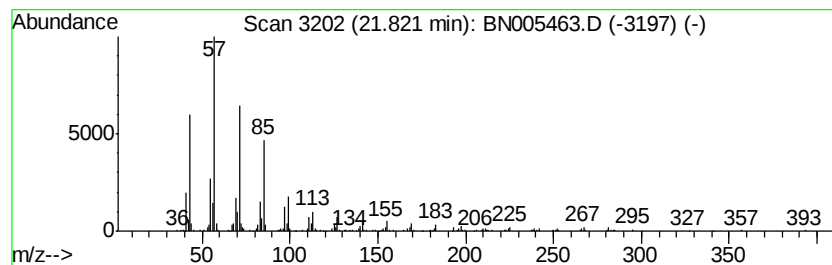
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.82 | 2.75 ng/ul | 681812 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 93   |
| 2    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    | Triacontane           | 422 | C30H62  | 000638-68-6 | 90   |
| 5    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

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Quant Title : SVOA CALIBRATION

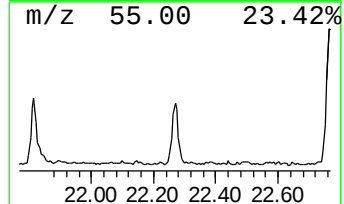
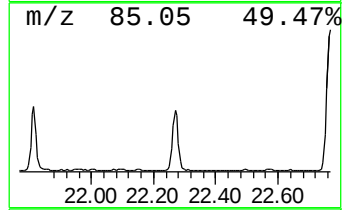
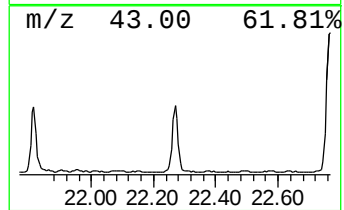
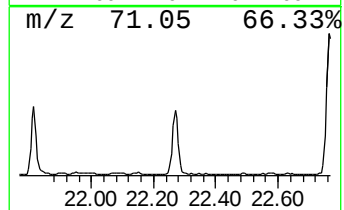
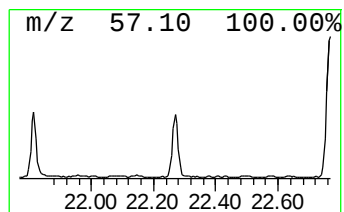
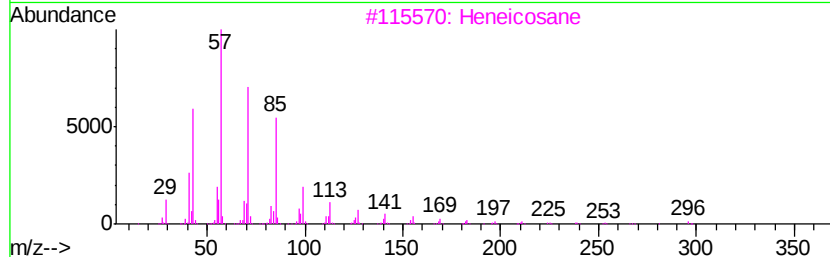
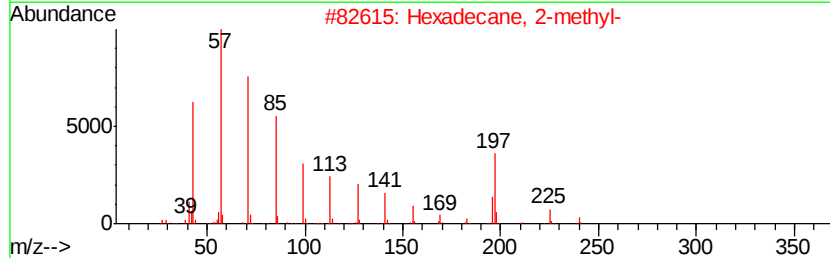
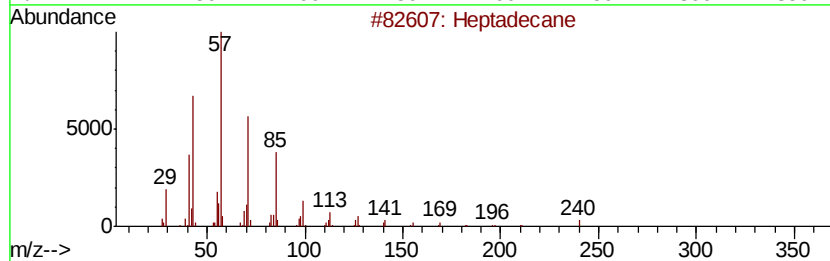
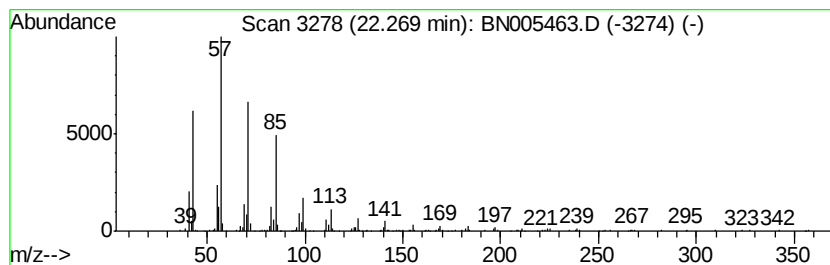
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.27 | 2.67 ng/ul | 661954 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane           | 240 | C17H36  | 000629-78-7 | 93   |
| 2    |    | Hexadecane, 2-methyl- | 240 | C17H36  | 001560-92-5 | 93   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    | triacontane           | 422 | C30H62  | 000638-68-6 | 91   |
| 5    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

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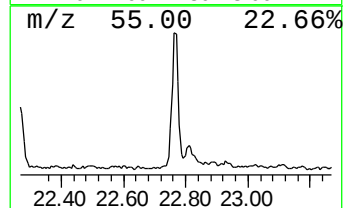
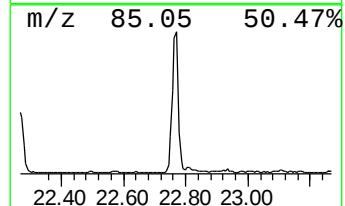
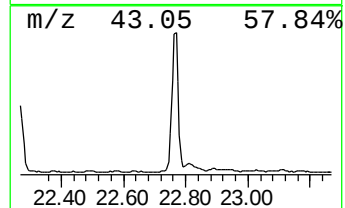
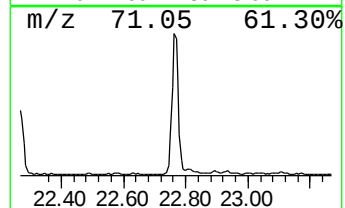
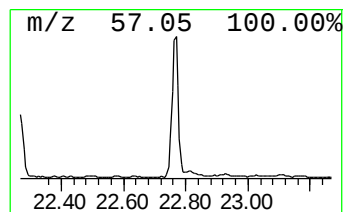
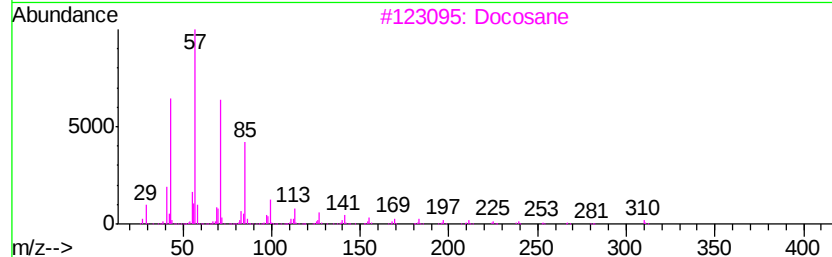
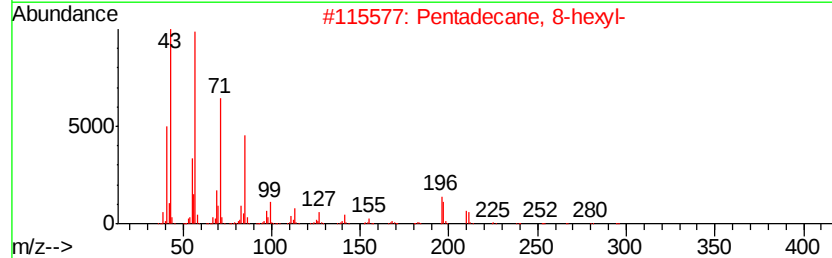
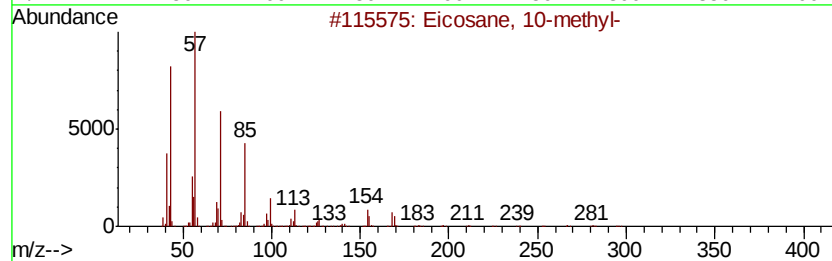
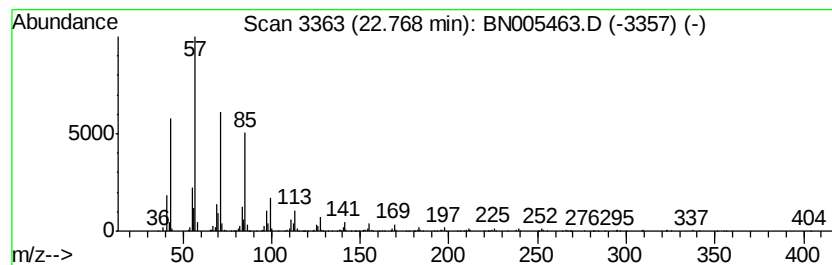
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 22.77 | 7.08 ng/ul | 1559530 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 93   |
| 2    |    | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 93   |
| 3    |    | Docosane              | 310 | C22H46  | 000629-97-0 | 91   |
| 4    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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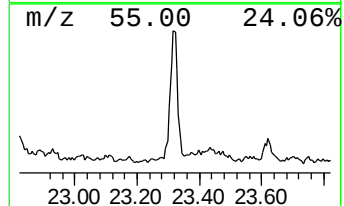
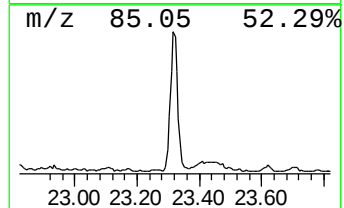
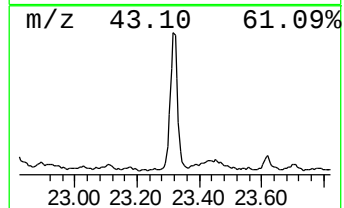
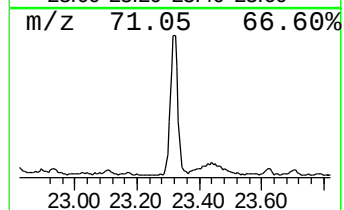
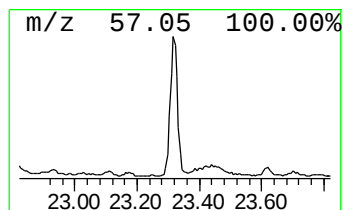
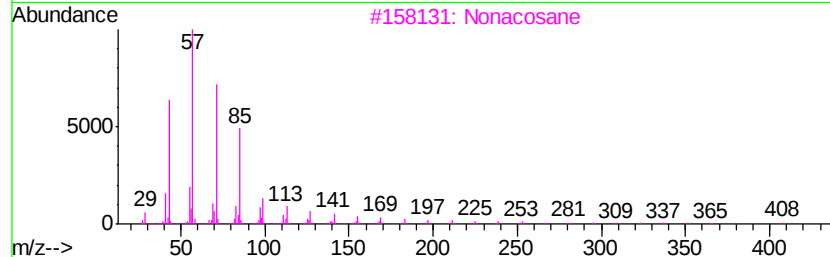
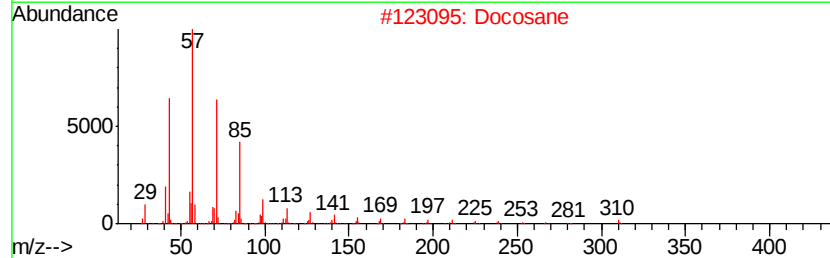
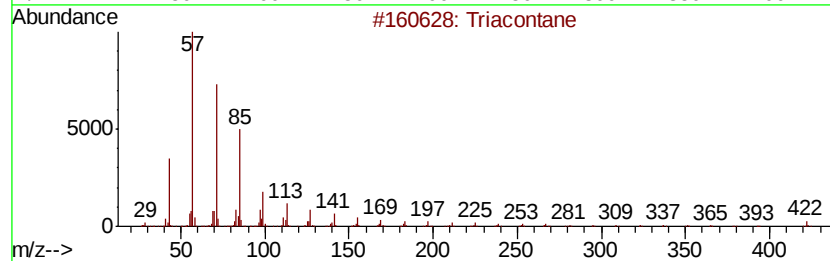
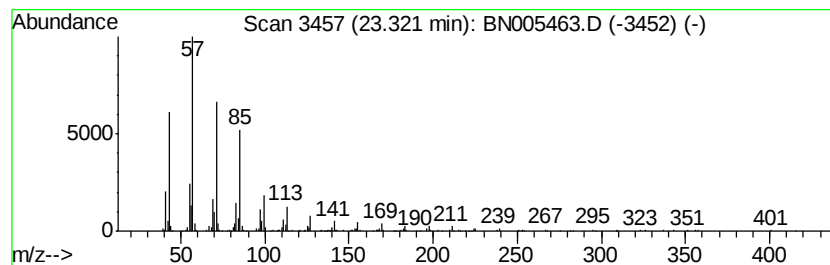
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.32 | 4.70 ng/ul | 1035500 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Triacontane  | 422 | C30H62  | 000638-68-6 | 91   |
| 2    |    | Docosane     | 310 | C22H46  | 000629-97-0 | 91   |
| 3    |    | Nonacosane   | 408 | C29H60  | 000630-03-5 | 91   |
| 4    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 91   |
| 5    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

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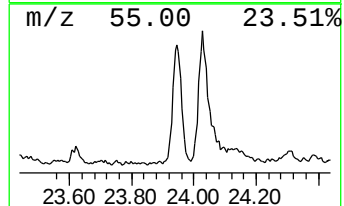
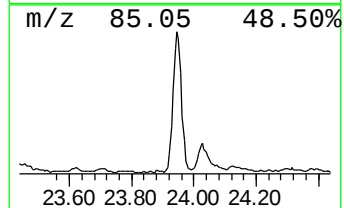
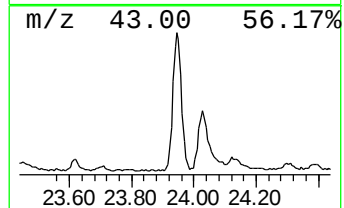
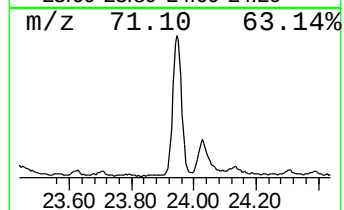
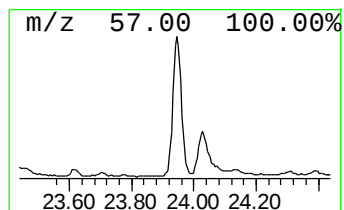
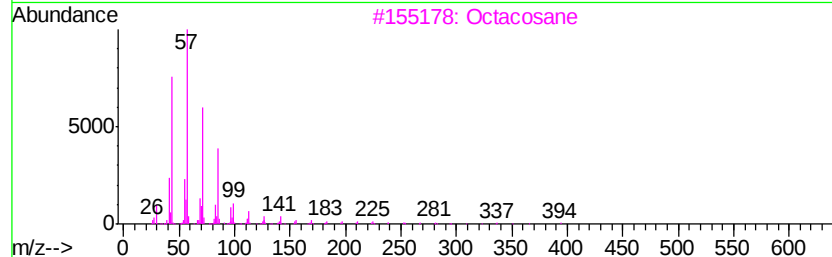
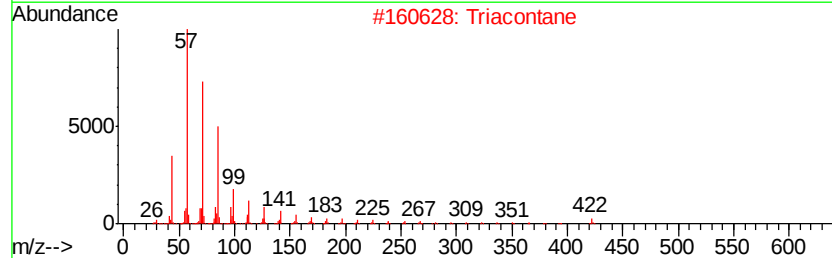
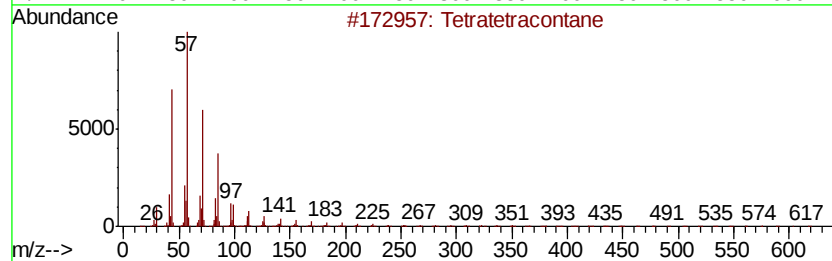
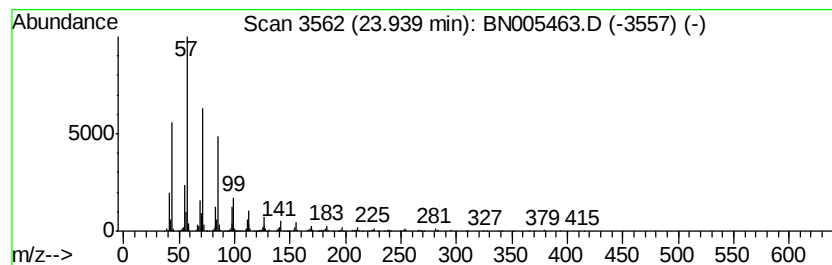
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.94 | 6.13 ng/ul | 1349620 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetratetracontane      | 619 | C44H90  | 007098-22-8 | 91   |
| 2    |    | triacontane            | 422 | C30H62  | 000638-68-6 | 91   |
| 3    |    | Octacosane             | 394 | C28H58  | 000630-02-4 | 90   |
| 4    |    | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |
| 5    |    | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

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Quant Title : SVOA CALIBRATION

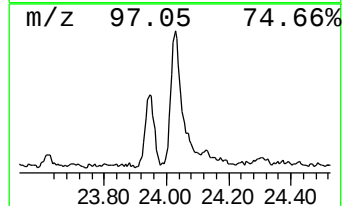
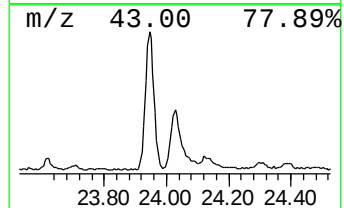
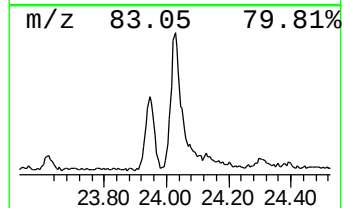
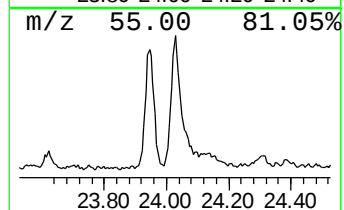
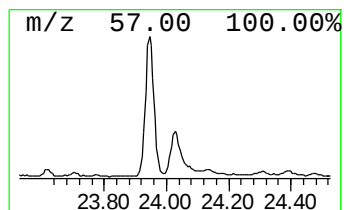
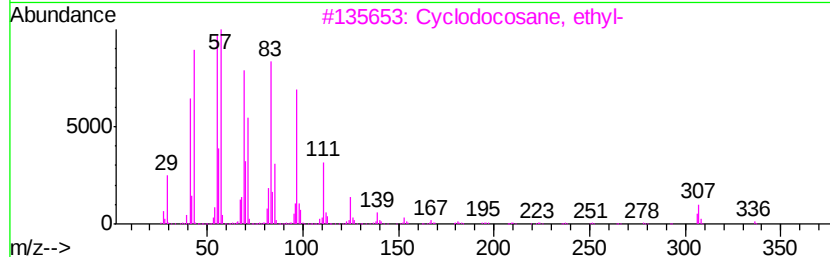
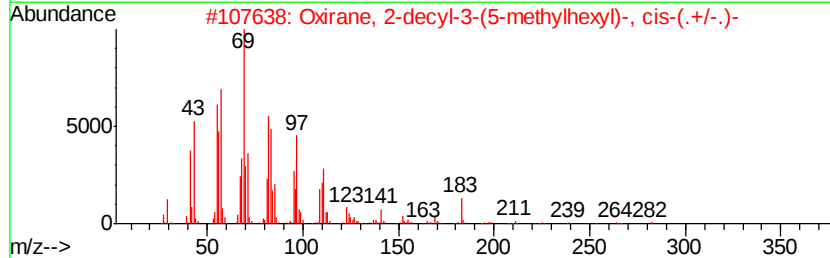
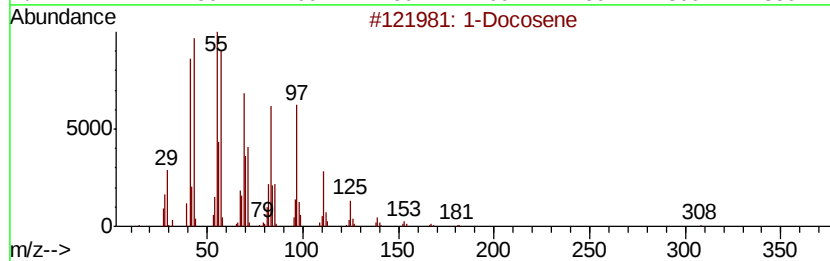
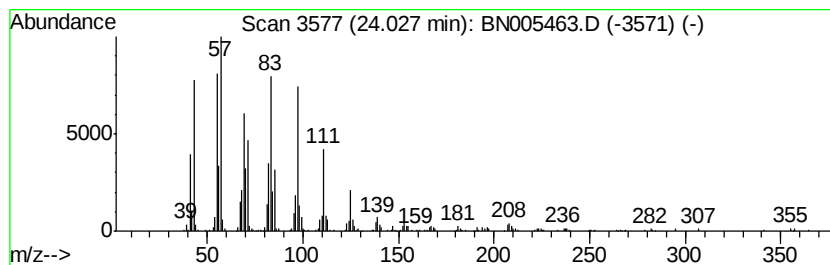
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 (DEL) Alkane: Cyclic24.03 Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 24.03 | 4.94 ng/ul | 1088400 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 1-Docosene                          | 308 | C22H44  | 001599-67-3  | 86   |
| 2    |    | Oxirane, 2-decyl-3-(5-methylhexyl)- | 282 | C19H38O | 057457-72-4  | 83   |
| 3    |    | Cyclodocosane, ethyl-               | 336 | C24H48  | 1000151-22-6 | 83   |
| 4    |    | 1-Hexacosanol                       | 382 | C26H54O | 000506-52-5  | 76   |
| 5    |    | 1-Tetracosanol                      | 354 | C24H50O | 000506-51-4  | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

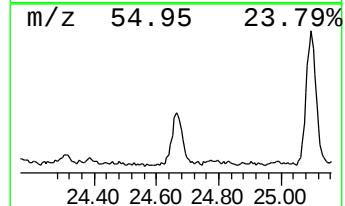
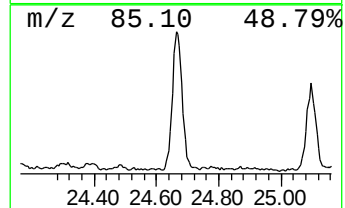
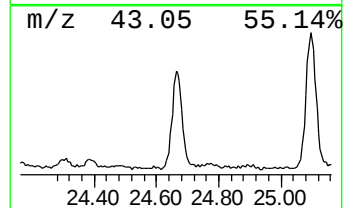
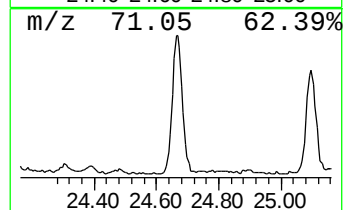
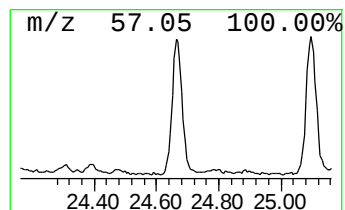
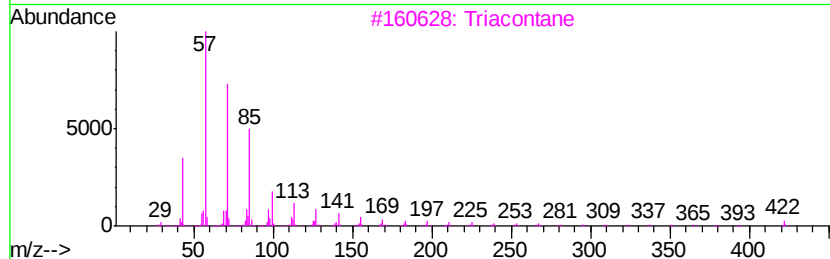
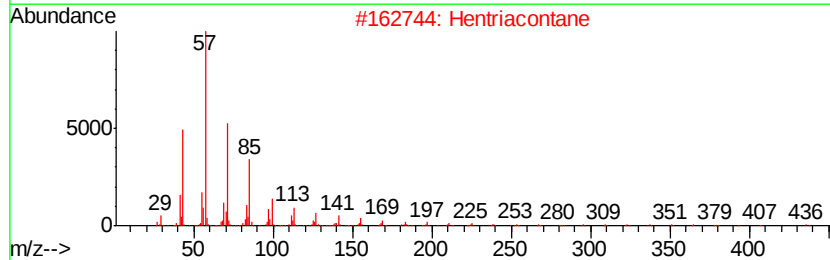
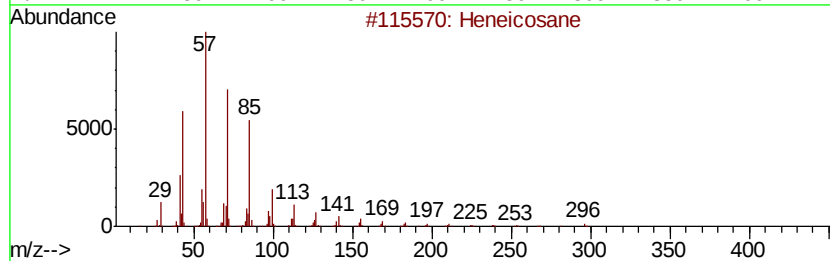
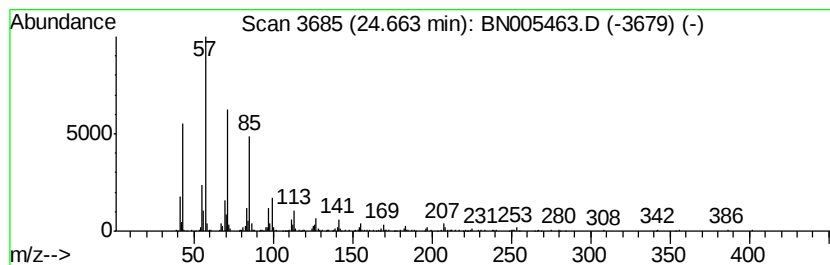
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.66 | 3.75 ng/ul | 825559 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane                    | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    | Hentriacontane                 | 437 | C31H64  | 000630-04-6 | 90   |
| 3    |    | Triacontane                    | 422 | C30H62  | 000638-68-6 | 87   |
| 4    |    | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 87   |
| 5    |    | Heptadecane, 9-octyl-          | 352 | C25H52  | 007225-64-1 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Title : SVOA CALIBRATION

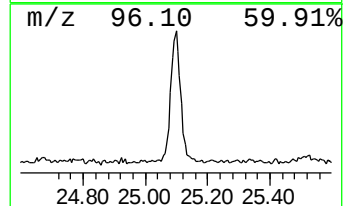
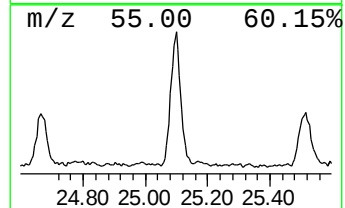
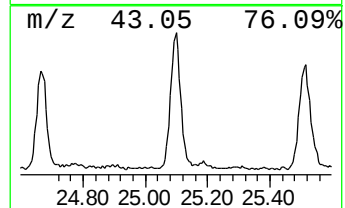
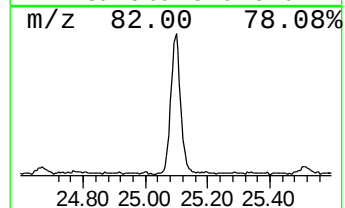
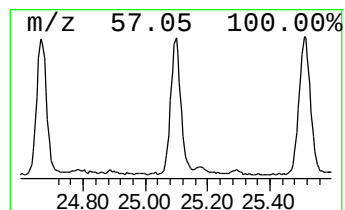
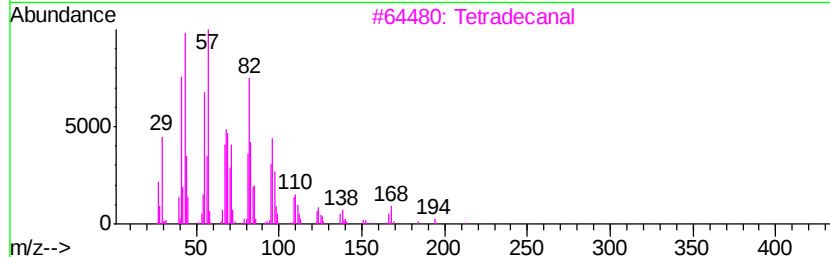
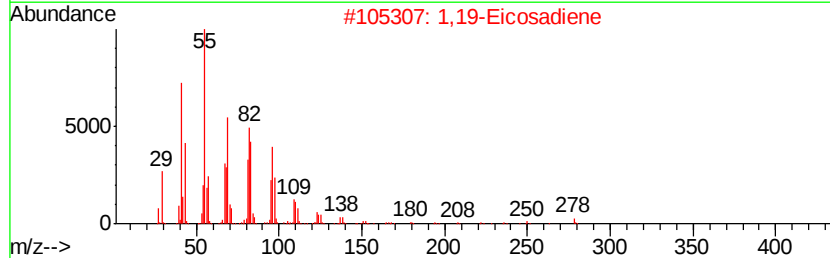
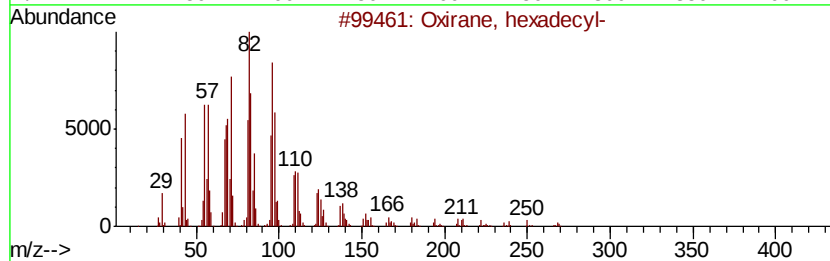
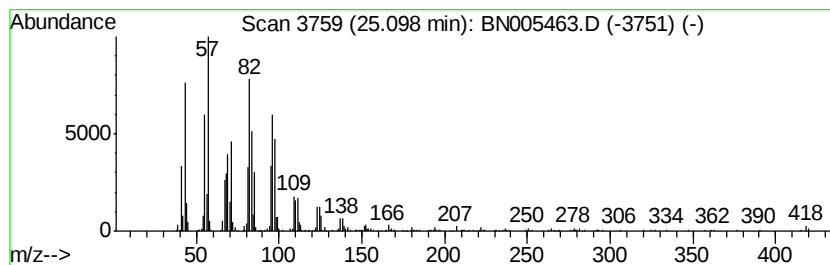
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Oxirane, hexadecyl- Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 25.10 | 7.71 ng/ul | 1699160 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 91   |
| 2    |    | 1,19-Eicosadiene    | 278 | C20H38  | 014811-95-1 | 91   |
| 3    |    | Tetradecanal        | 212 | C14H28O | 000124-25-4 | 87   |
| 4    |    | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 83   |
| 5    |    | Octadecanal         | 268 | C18H36O | 000638-66-4 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

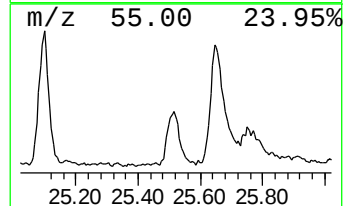
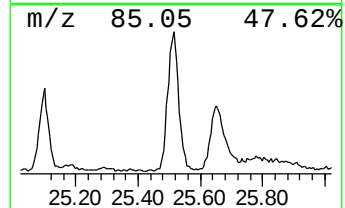
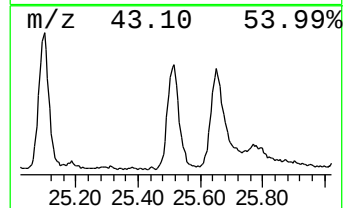
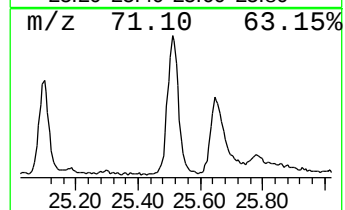
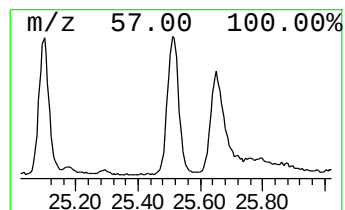
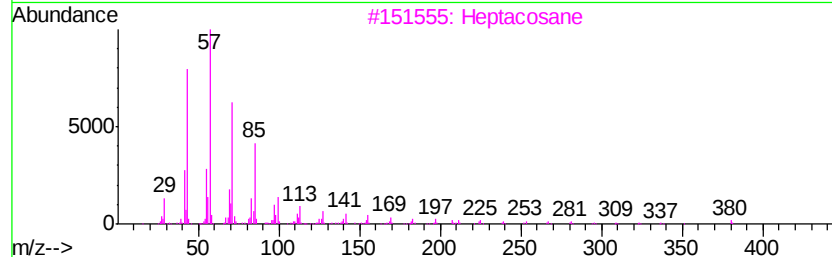
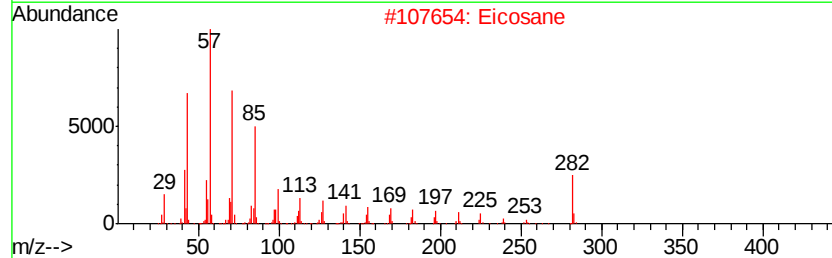
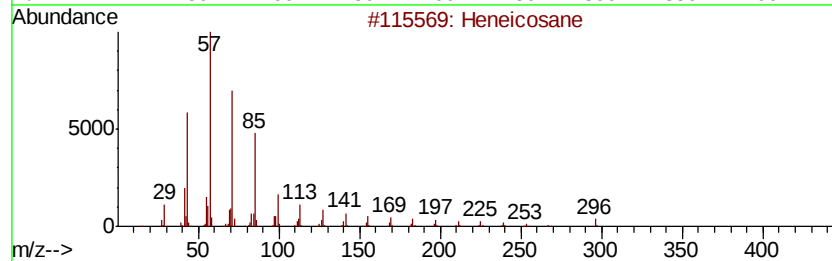
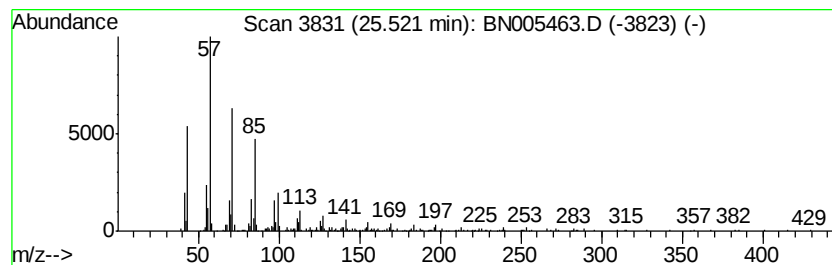
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 25.52 | 4.63 ng/ul | 1019250 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44  | 000629-94-7 | 93   |
| 2    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 91   |
| 3    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 91   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Title : SVOA CALIBRATION

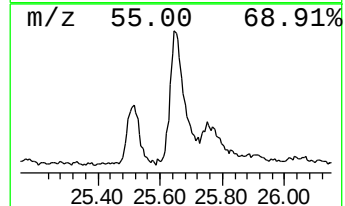
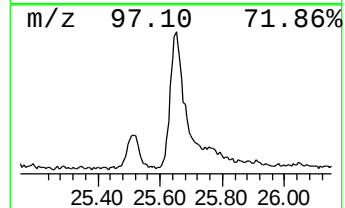
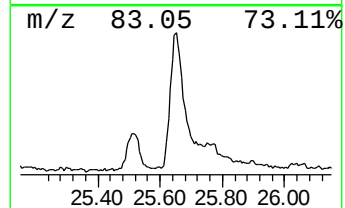
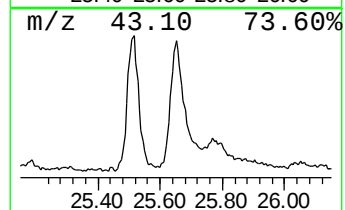
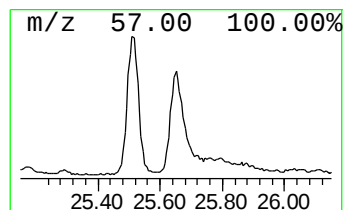
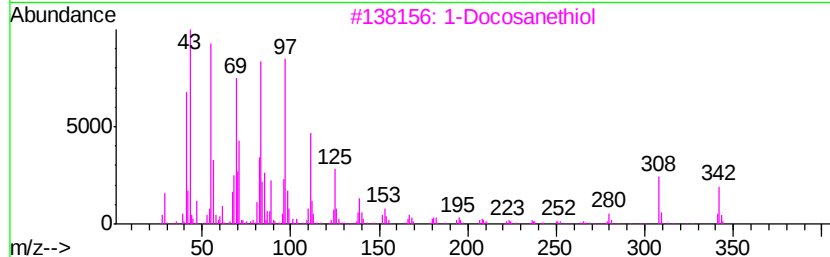
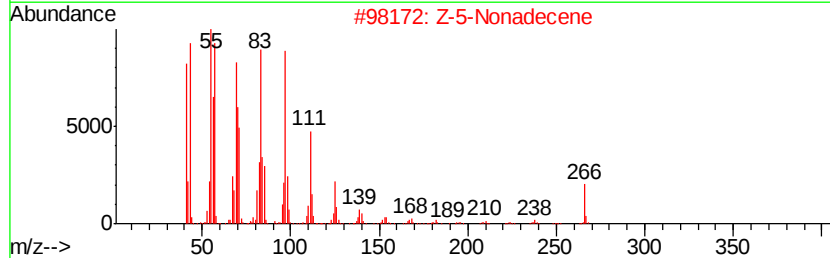
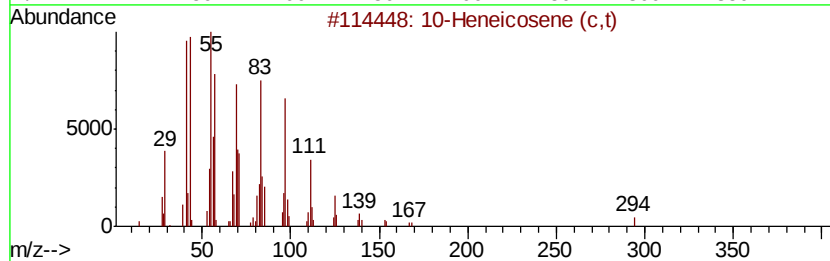
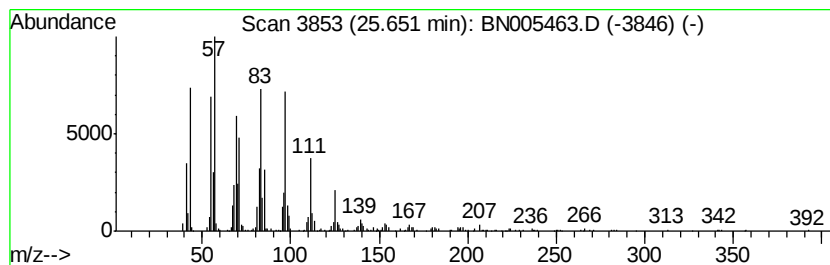
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Cyclic25.65 Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 25.65 | 7.22 ng/ul | 1589630 | Perylene-d12     | 23.40 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------|-----|---------|--------------|------|
| 1    |    |   | 10-Heneicosene (c,t) | 294 | C21H42  | 095008-11-0  | 90   |
| 2    |    |   | Z-5-Nonadecene       | 266 | C19H38  | 1000131-11-8 | 87   |
| 3    |    |   | 1-Docosanethiol      | 342 | C22H46S | 007773-83-3  | 83   |
| 4    |    |   | 17-Pentatriacontene  | 491 | C35H70  | 006971-40-0  | 83   |
| 5    |    |   | 1-Hexacosanol        | 382 | C26H54O | 000506-52-5  | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

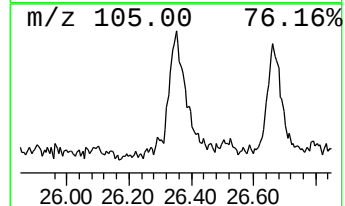
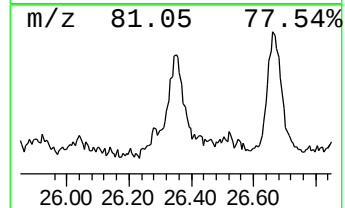
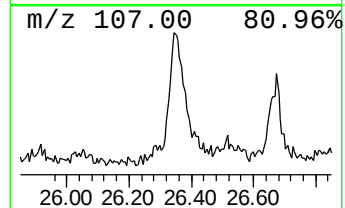
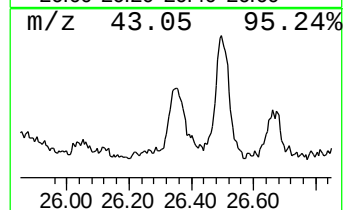
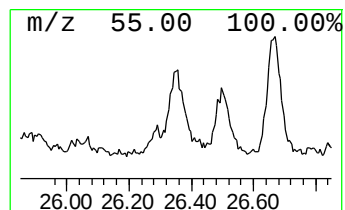
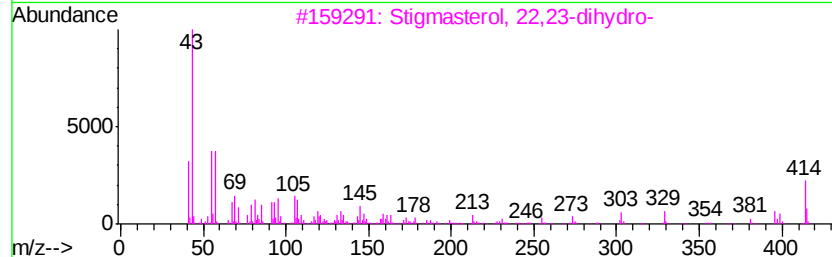
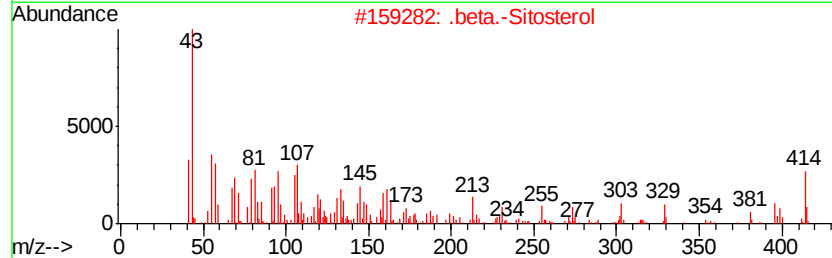
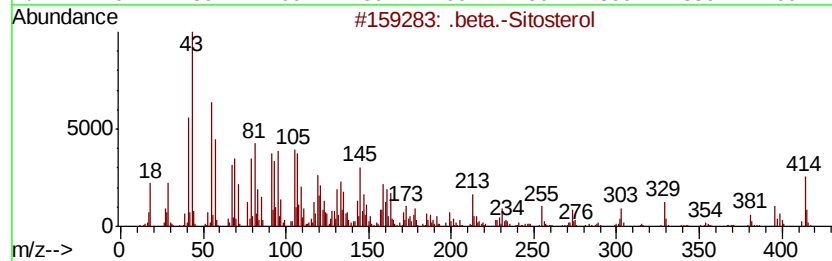
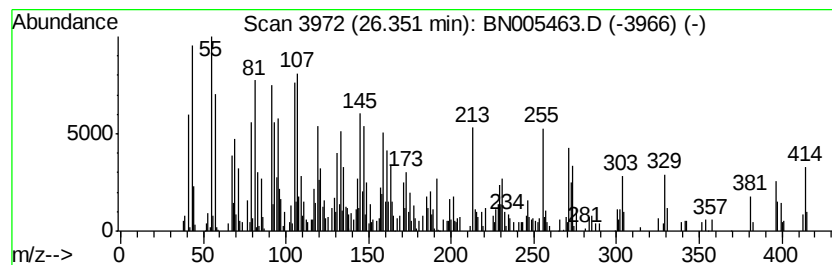
Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 14 .beta.-Sitosterol Concentration Rank 10

| R.T.    | EstConc    | Area                         | Relative to ISTD | R.T.    |              |      |
|---------|------------|------------------------------|------------------|---------|--------------|------|
| 26.35   | 3.91 ng/ul | 861496                       | Perylene-d12     | 23.40   |              |      |
| Hit# of | 5          | Tentative ID                 | MW               | MolForm | CAS#         | Qual |
| 1       |            | .beta.-Sitosterol            | 414              | C29H50O | 000083-46-5  | 95   |
| 2       |            | .beta.-Sitosterol            | 414              | C29H50O | 000083-46-5  | 95   |
| 3       |            | Stigmasterol, 22,23-dihydro- | 414              | C29H50O | 1000214-20-7 | 95   |
| 4       |            | .gamma.-Sitosterol           | 414              | C29H50O | 000083-47-6  | 95   |
| 5       |            | 7-Ergosterol                 | 400              | C28H48O | 116179-22-7  | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Title : SVOA CALIBRATION

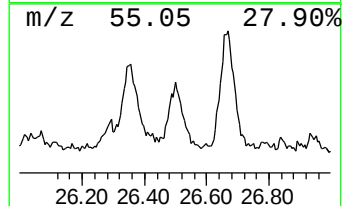
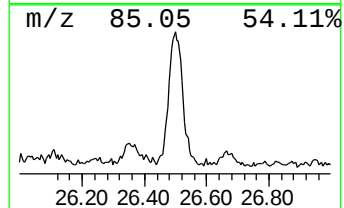
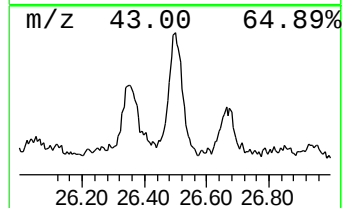
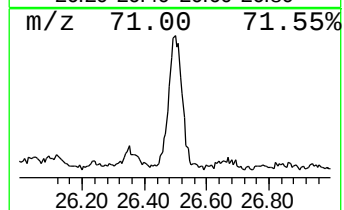
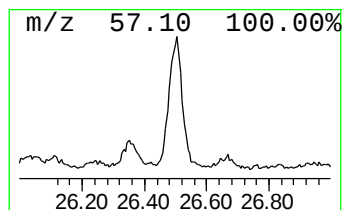
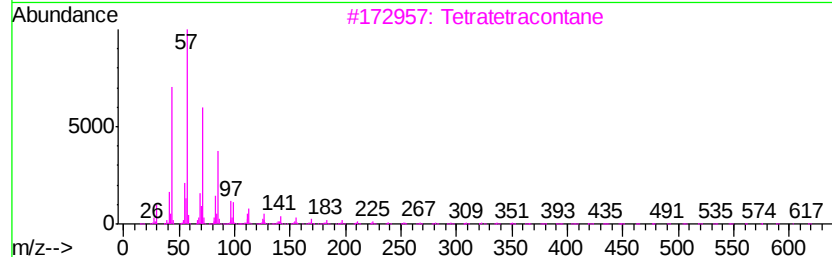
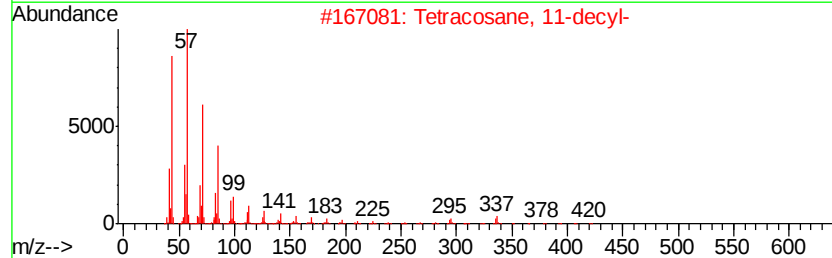
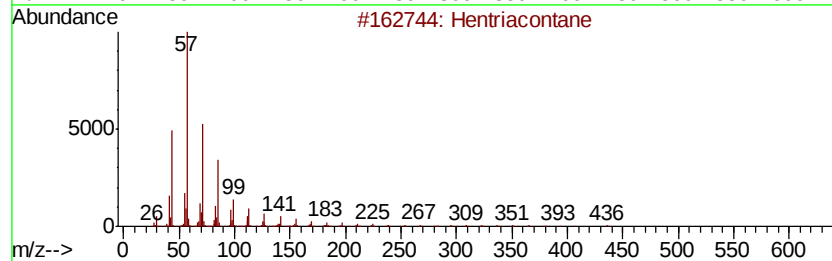
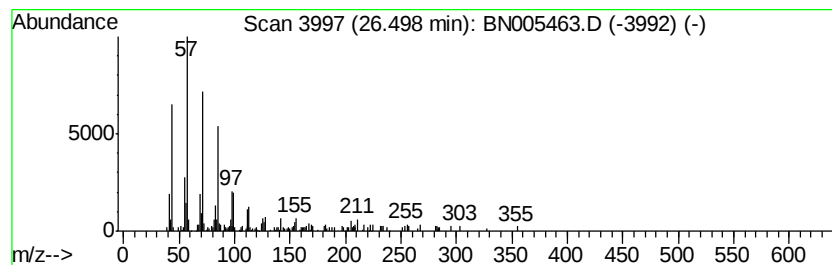
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.50 | 2.43 ng/ul | 536374 | Perylene-d12     | 23.40 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|---|------------------------|-----|----------|-------------|------|
| 1    |    |   | Hentriacontane         | 437 | C31H64   | 000630-04-6 | 87   |
| 2    |    |   | Tetracosane, 11-decyl- | 479 | C34H70   | 055429-84-0 | 86   |
| 3    |    |   | Tetratetracontane      | 619 | C44H90   | 007098-22-8 | 81   |
| 4    |    |   | 2-Bromo dodecane       | 248 | C12H25Br | 013187-99-0 | 80   |
| 5    |    |   | Eicosane               | 282 | C20H42   | 000112-95-8 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050319\  
Data File : BN005463.D  
Acq On : 03 May 2019 21:38  
Operator : JU/SJ  
Sample : K2602-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH58

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

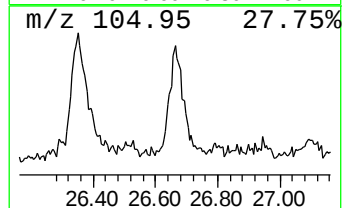
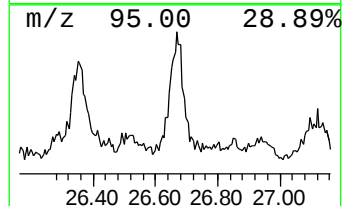
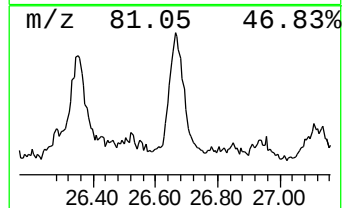
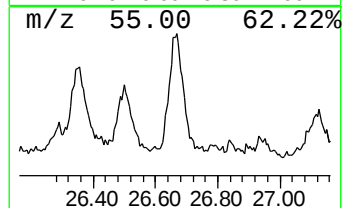
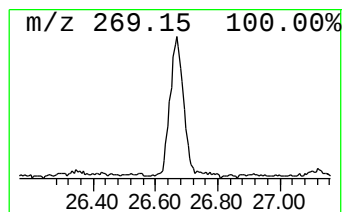
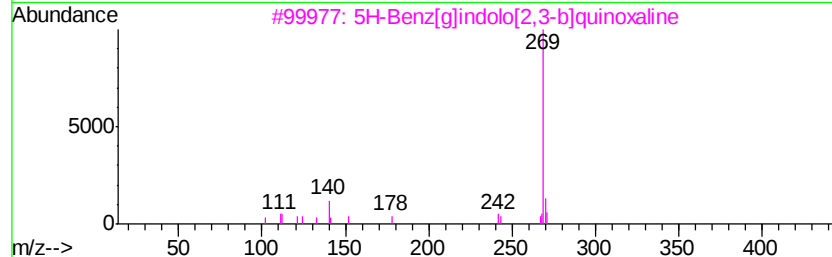
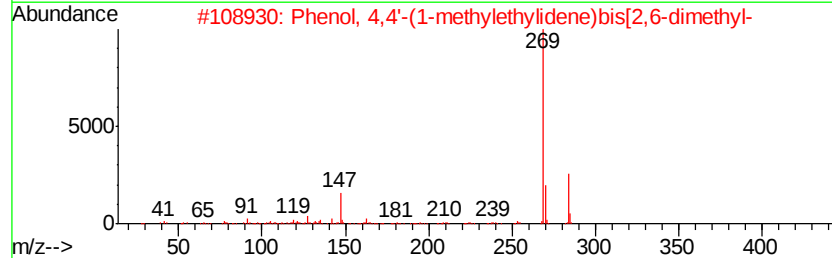
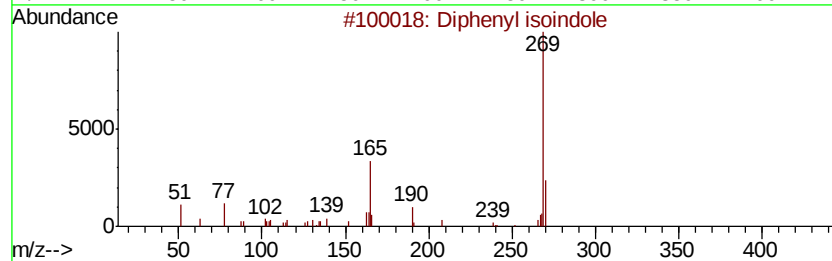
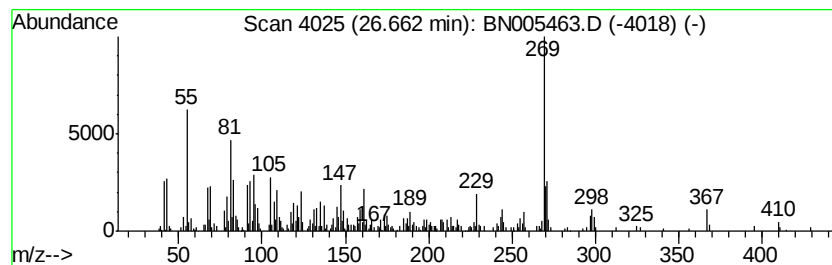
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown-01 Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.66 | 3.99 ng/ul | 878276 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID                                         | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Diphenyl isoindole                                   | 269 | C20H15N  | 004276-23-7 | 46   |
| 2    |    | Phenol, 4,4'-(1-methylethylidene)bis[2,6-dimethyl-   | 284 | C19H24O2 | 005613-46-7 | 37   |
| 3    |    | 5H-Benz[ <i>g</i> ]indolo[2,3- <i>b</i> ]quinoxaline | 269 | C18H11N3 | 000249-06-9 | 35   |
| 4    |    | 2,3-Diphenylindole                                   | 269 | C20H15N  | 003469-20-3 | 35   |
| 5    |    | 2,3-Diphenylindole                                   | 269 | C20H15N  | 003469-20-3 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050319\  
 Data File : BN005463.D  
 Acq On : 03 May 2019 21:38  
 Operator : JU/SJ  
 Sample : K2602-09  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFH58

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.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 |
| 1,1'-Biphenyl, 3,... | 20.20 | 2.3     | ng/ul | 576883   | 5                     | 21.20 | 4965690 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.52 | 2.1     | ng/ul | 521167   | 5                     | 21.20 | 4965690 | 20.0 |
| (DEL) Alkane: Cyc... | 20.94 | 5.4     | ng/ul | 1334570  | 5                     | 21.20 | 4965690 | 20.0 |
| (DEL) Alkane: Str... | 21.82 | 2.8     | ng/ul | 681812   | 5                     | 21.20 | 4965690 | 20.0 |
| (DEL) Alkane: Str... | 22.27 | 2.7     | ng/ul | 661954   | 5                     | 21.20 | 4965690 | 20.0 |
| (DEL) Alkane: Str... | 22.77 | 7.1     | ng/ul | 1559530  | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Str... | 23.32 | 4.7     | ng/ul | 1035500  | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Str... | 23.94 | 6.1     | ng/ul | 1349620  | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Cyc... | 24.03 | 4.9     | ng/ul | 1088400  | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Str... | 24.66 | 3.8     | ng/ul | 825559   | 6                     | 23.40 | 4405980 | 20.0 |
| Oxirane, hexadecyl-  | 25.10 | 7.7     | ng/ul | 1699160  | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Str... | 25.52 | 4.6     | ng/ul | 1019250  | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Cyc... | 25.65 | 7.2     | ng/ul | 1589630  | 6                     | 23.40 | 4405980 | 20.0 |
| .beta.-Sitosterol    | 26.35 | 3.9     | ng/ul | 861496   | 6                     | 23.40 | 4405980 | 20.0 |
| (DEL) Alkane: Str... | 26.50 | 2.4     | ng/ul | 536374   | 6                     | 23.40 | 4405980 | 20.0 |
| unknown-01           | 26.66 | 4.0     | ng/ul | 878276   | 6                     | 23.40 | 4405980 | 20.0 |