

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
 Data File : BN005793.D  
 Acq On : 20 May 2019 11:37  
 Operator : JU/SJ  
 Sample : K2693-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFH55

## 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-BN051819MA.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         | 6.769       | 638           | 643         | 658          | rVB      | 87450          | 223582        | 4.42%           | 0.542%        |
| 2         | 6.922       | 664           | 669         | 682          | rVB      | 89721          | 171809        | 3.40%           | 0.416%        |
| 3         | 7.116       | 696           | 702         | 711          | rBV2     | 113788         | 218928        | 4.33%           | 0.531%        |
| 4         | 7.569       | 774           | 779         | 790          | rVB      | 259413         | 485557        | 9.60%           | 1.177%        |
| 5         | 8.298       | 897           | 903         | 916          | rVB2     | 73532          | 157832        | 3.12%           | 0.382%        |
| 6         | 8.728       | 970           | 976         | 990          | rVB      | 123808         | 249341        | 4.93%           | 0.604%        |
| 7         | 9.445       | 1092          | 1098        | 1109         | rVB      | 90572          | 186103        | 3.68%           | 0.451%        |
| 8         | 9.998       | 1186          | 1192        | 1207         | rBV      | 83786          | 227316        | 4.50%           | 0.551%        |
| 9         | 10.334      | 1242          | 1249        | 1262         | rVB      | 406009         | 724988        | 14.34%          | 1.757%        |
| 10        | 10.504      | 1272          | 1278        | 1291         | rBV2     | 59284          | 183341        | 3.63%           | 0.444%        |
| 11        | 13.628      | 1804          | 1809        | 1815         | rBV      | 324977         | 545946        | 10.80%          | 1.323%        |
| 12        | 13.681      | 1815          | 1818        | 1837         | rVB      | 92099          | 157677        | 3.12%           | 0.382%        |
| 13        | 13.898      | 1849          | 1855        | 1866         | rBV      | 402269         | 632746        | 12.51%          | 1.533%        |
| 14        | 14.210      | 1898          | 1908        | 1920         | rBV2     | 702869         | 1094080       | 21.64%          | 2.651%        |
| 15        | 14.504      | 1951          | 1958        | 1965         | rBV4     | 27749          | 81129         | 1.60%           | 0.197%        |
| 16        | 14.986      | 2036          | 2040        | 2046         | rBV3     | 4836           | 7031          | 0.14%           | 0.017%        |
| 17        | 15.216      | 2073          | 2079        | 2090         | rBV      | 484842         | 822632        | 16.27%          | 1.994%        |
| 18        | 15.392      | 2103          | 2109        | 2116         | rBV2     | 48503          | 86354         | 1.71%           | 0.209%        |
| 19        | 15.469      | 2119          | 2122        | 2126         | rVB2     | 5585           | 7484          | 0.15%           | 0.018%        |
| 20        | 16.533      | 2298          | 2303        | 2308         | rBV4     | 4443           | 7562          | 0.15%           | 0.018%        |
| 21        | 16.969      | 2371          | 2377        | 2388         | rBV2     | 1064466        | 1483025       | 29.33%          | 3.594%        |
| 22        | 17.074      | 2388          | 2395        | 2407         | rVV2     | 527617         | 908404        | 17.96%          | 2.201%        |
| 23        | 17.886      | 2529          | 2533        | 2539         | rBV5     | 15119          | 27797         | 0.55%           | 0.067%        |
| 24        | 18.051      | 2559          | 2561        | 2570         | rBV5     | 6116           | 8556          | 0.17%           | 0.021%        |
| 25        | 18.174      | 2580          | 2582        | 2588         | rVB3     | 4357           | 5263          | 0.10%           | 0.013%        |
| 26        | 18.839      | 2690          | 2695        | 2699         | rVB6     | 4056           | 7702          | 0.15%           | 0.019%        |
| 27        | 18.904      | 2699          | 2706        | 2715         | rVB2     | 155221         | 204116        | 4.04%           | 0.495%        |
| 28        | 19.027      | 2723          | 2727        | 2730         | rBV2     | 5927           | 9649          | 0.19%           | 0.023%        |
| 29        | 19.116      | 2739          | 2742        | 2747         | rBV3     | 28183          | 32453         | 0.64%           | 0.079%        |
| 30        | 19.198      | 2750          | 2756        | 2764         | rBV      | 309707         | 406666        | 8.04%           | 0.986%        |
| 31        | 19.263      | 2764          | 2767        | 2774         | rVB4     | 11806          | 18054         | 0.36%           | 0.044%        |
| 32        | 19.392      | 2781          | 2789        | 2798         | rBV      | 759983         | 1205762       | 23.85%          | 2.922%        |
| 33        | 19.463      | 2798          | 2801        | 2806         | rVV5     | 11130          | 15390         | 0.30%           | 0.037%        |
| 34        | 19.539      | 2809          | 2814        | 2819         | rVB3     | 34930          | 40489         | 0.80%           | 0.098%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
 Data File : BN005793.D  
 Acq On : 20 May 2019 11:37  
 Operator : JU/SJ  
 Sample : K2693-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFH55

## 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-BN051819MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 19.621 | 2824 | 2828 | 2830 | rVV  | 153061  | 185070  | 3.66%   | 0.449%  |
| 36 | 19.651 | 2830 | 2833 | 2838 | rVB  | 158185  | 192041  | 3.80%   | 0.465%  |
| 37 | 19.768 | 2848 | 2853 | 2857 | rBV  | 462182  | 559306  | 11.06%  | 1.355%  |
| 38 | 19.816 | 2857 | 2861 | 2868 | rVV  | 198897  | 310599  | 6.14%   | 0.753%  |
| 39 | 19.916 | 2872 | 2878 | 2883 | rVV  | 1294586 | 1660920 | 32.85%  | 4.025%  |
| 40 | 19.968 | 2883 | 2887 | 2893 | rVV  | 80303   | 104816  | 2.07%   | 0.254%  |
| 41 | 20.045 | 2895 | 2900 | 2903 | rBV3 | 57513   | 68215   | 1.35%   | 0.165%  |
| 42 | 20.115 | 2907 | 2912 | 2918 | rBV  | 242524  | 288603  | 5.71%   | 0.699%  |
| 43 | 20.198 | 2921 | 2926 | 2931 | rBV  | 1928786 | 2316496 | 45.81%  | 5.614%  |
| 44 | 20.251 | 2931 | 2935 | 2939 | rVV  | 379692  | 473087  | 9.36%   | 1.147%  |
| 45 | 20.286 | 2939 | 2941 | 2946 | rVB3 | 13680   | 14355   | 0.28%   | 0.035%  |
| 46 | 20.357 | 2947 | 2953 | 2959 | rVB2 | 737599  | 1017285 | 20.12%  | 2.465%  |
| 47 | 20.451 | 2964 | 2969 | 2973 | rVV3 | 154967  | 189201  | 3.74%   | 0.459%  |
| 48 | 20.515 | 2973 | 2980 | 2986 | rVV  | 1184695 | 2331108 | 46.10%  | 5.649%  |
| 49 | 20.568 | 2986 | 2989 | 2993 | rVV  | 202240  | 238729  | 4.72%   | 0.579%  |
| 50 | 20.604 | 2993 | 2995 | 2997 | rVV3 | 17890   | 18174   | 0.36%   | 0.044%  |
| 51 | 20.639 | 2997 | 3001 | 3002 | rVV3 | 32123   | 46083   | 0.91%   | 0.112%  |
| 52 | 20.668 | 3002 | 3006 | 3011 | rVV  | 1306612 | 1479822 | 29.27%  | 3.586%  |
| 53 | 20.733 | 3012 | 3017 | 3022 | rBV  | 526999  | 609866  | 12.06%  | 1.478%  |
| 54 | 20.833 | 3030 | 3034 | 3037 | rBV  | 142899  | 165007  | 3.26%   | 0.400%  |
| 55 | 20.868 | 3037 | 3040 | 3044 | rVV2 | 123921  | 138215  | 2.73%   | 0.335%  |
| 56 | 20.939 | 3047 | 3052 | 3058 | rVV2 | 1148675 | 1440272 | 28.48%  | 3.490%  |
| 57 | 20.998 | 3058 | 3062 | 3068 | rVV2 | 666136  | 864511  | 17.10%  | 2.095%  |
| 58 | 21.057 | 3068 | 3072 | 3075 | rVV2 | 267677  | 326873  | 6.46%   | 0.792%  |
| 59 | 21.092 | 3075 | 3078 | 3083 | rVV3 | 111567  | 182260  | 3.60%   | 0.442%  |
| 60 | 21.133 | 3083 | 3085 | 3086 | rVV  | 32572   | 29747   | 0.59%   | 0.072%  |
| 61 | 21.162 | 3086 | 3090 | 3093 | rVV  | 170263  | 217985  | 4.31%   | 0.528%  |
| 62 | 21.239 | 3093 | 3103 | 3110 | rVV2 | 2670258 | 5056549 | 100.00% | 12.254% |
| 63 | 21.298 | 3110 | 3113 | 3118 | rVB4 | 41312   | 52644   | 1.04%   | 0.128%  |
| 64 | 21.380 | 3123 | 3127 | 3133 | rVB3 | 114242  | 138298  | 2.74%   | 0.335%  |
| 65 | 21.557 | 3152 | 3157 | 3163 | rBV  | 1083026 | 1510339 | 29.87%  | 3.660%  |
| 66 | 21.615 | 3163 | 3167 | 3173 | rVB  | 519479  | 644545  | 12.75%  | 1.562%  |
| 67 | 21.680 | 3173 | 3178 | 3185 | rBV  | 591718  | 695149  | 13.75%  | 1.685%  |
| 68 | 21.821 | 3198 | 3202 | 3207 | rBV  | 101125  | 118705  | 2.35%   | 0.288%  |
| 69 | 21.874 | 3207 | 3211 | 3214 | rBV6 | 35071   | 43293   | 0.86%   | 0.105%  |
| 70 | 22.027 | 3232 | 3237 | 3241 | rVB  | 202119  | 267819  | 5.30%   | 0.649%  |
| 71 | 22.239 | 3268 | 3273 | 3277 | rBV2 | 491012  | 664129  | 13.13%  | 1.609%  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

## 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-BN051819MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 22.274 | 3277 | 3279 | 3288 | rVB  | 130414  | 187939  | 3.72%  | 0.455% |
| 73 | 22.398 | 3297 | 3300 | 3306 | rVB3 | 39279   | 59524   | 1.18%  | 0.144% |
| 74 | 22.680 | 3344 | 3348 | 3353 | rBV6 | 71861   | 101264  | 2.00%  | 0.245% |
| 75 | 22.774 | 3359 | 3364 | 3369 | rBV  | 202953  | 283855  | 5.61%  | 0.688% |
| 76 | 23.298 | 3447 | 3453 | 3467 | rBV2 | 679435  | 1574298 | 31.13% | 3.815% |
| 77 | 23.439 | 3469 | 3477 | 3491 | rVB2 | 1001561 | 2194607 | 43.40% | 5.319% |
| 78 | 23.951 | 3559 | 3564 | 3575 | rVB  | 215332  | 380122  | 7.52%  | 0.921% |
| 79 | 24.674 | 3681 | 3687 | 3695 | rVB  | 126986  | 261338  | 5.17%  | 0.633% |
| 80 | 25.103 | 3756 | 3760 | 3768 | rVB7 | 44049   | 93828   | 1.86%  | 0.227% |
| 81 | 25.509 | 3823 | 3829 | 3837 | rVB2 | 117745  | 267243  | 5.29%  | 0.648% |
| 82 | 26.045 | 3913 | 3920 | 3929 | rVB4 | 147414  | 391711  | 7.75%  | 0.949% |
| 83 | 26.492 | 3990 | 3996 | 4009 | rVB3 | 56070   | 162840  | 3.22%  | 0.395% |

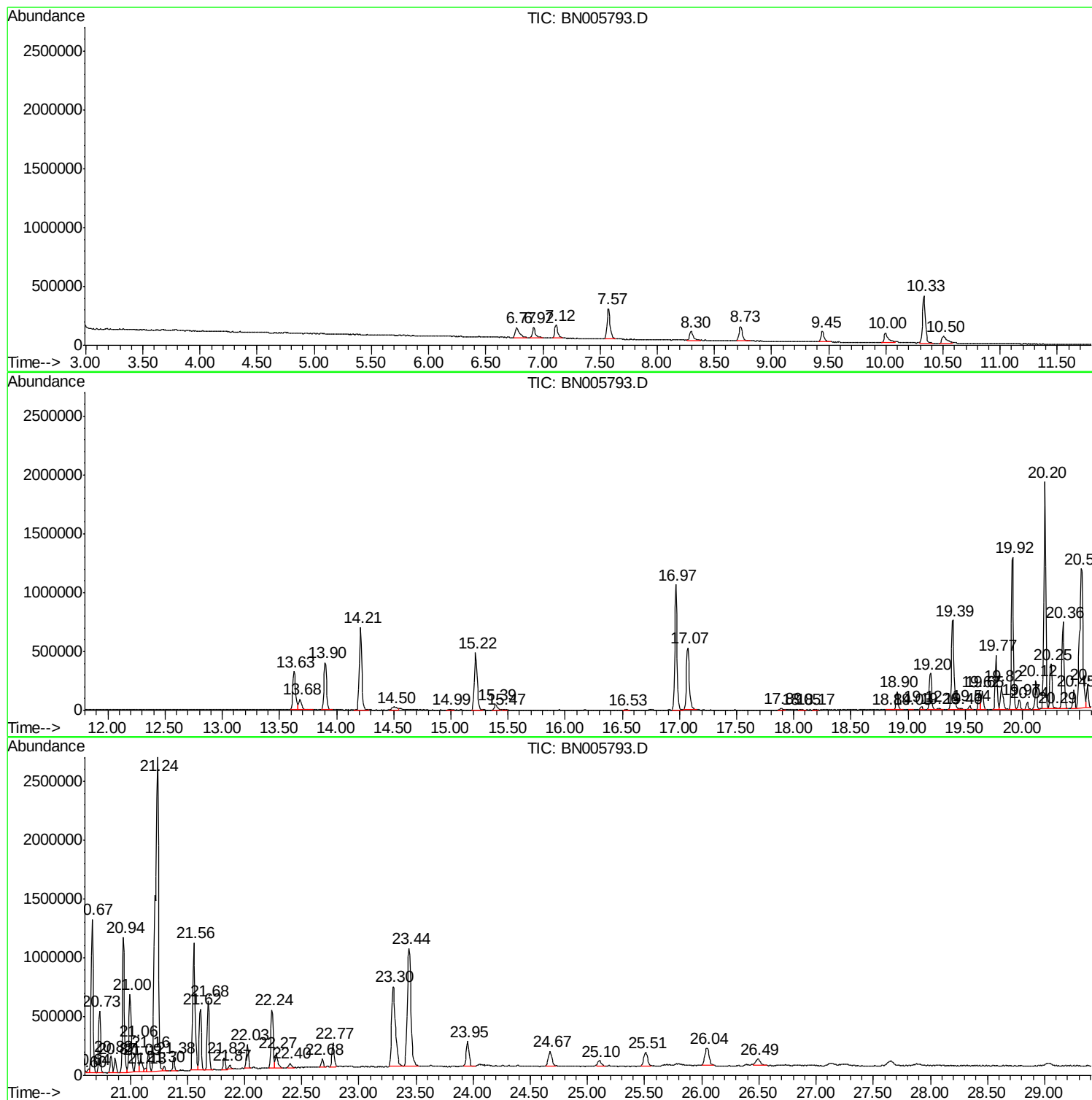
Sum of corrected areas: 41263449

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

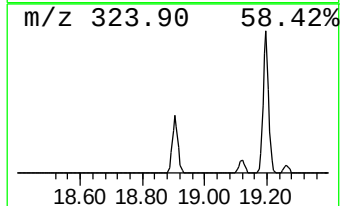
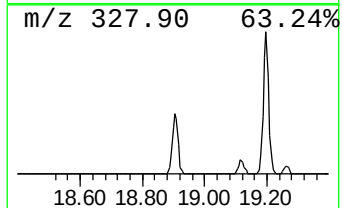
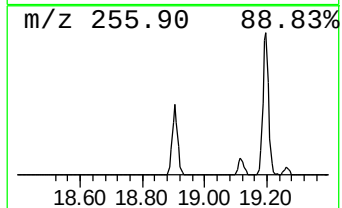
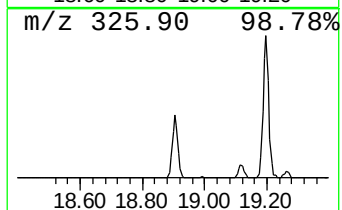
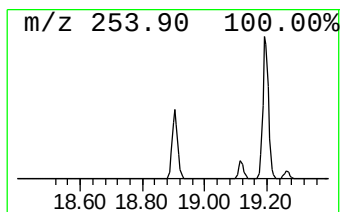
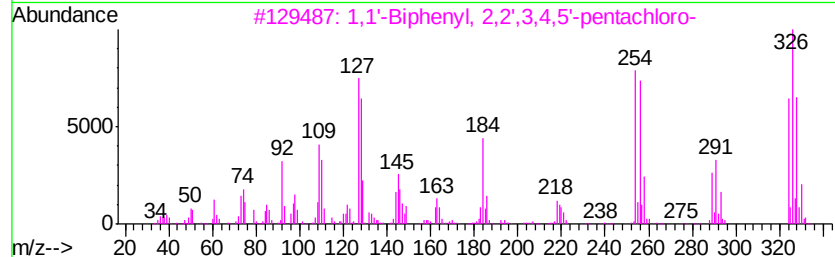
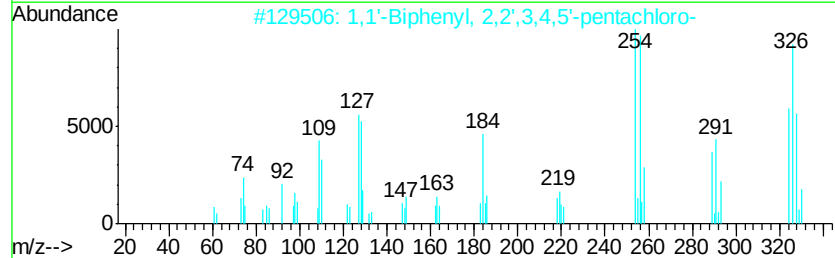
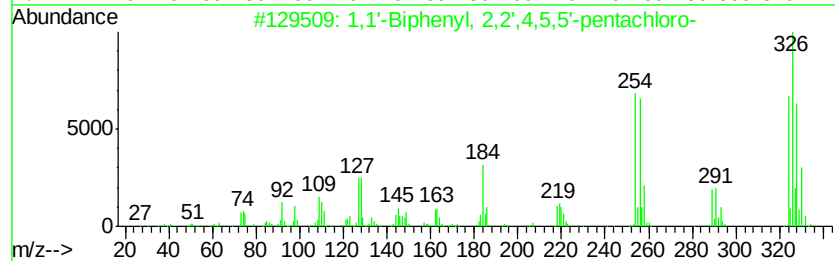
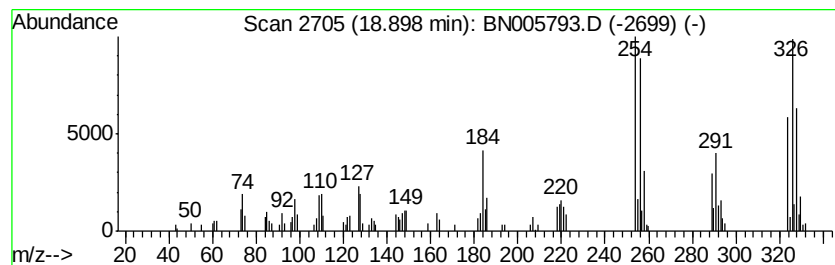
Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 1,1'-Biphenyl, 2,2',4,5,5'-... Concentration Rank 11

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.90     | 2.75 ng/ul                          | 204116 | Phenanthrene-d10 | 16.97       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324    | C12H5Cl5         | 037680-73-2 | 99   |
| 2         | 1,1'-Biphenyl, 2,2',3,4,5'-penta... | 324    | C12H5Cl5         | 038380-02-8 | 97   |
| 3         | 1,1'-Biphenyl, 2,2',3,4,5'-penta... | 324    | C12H5Cl5         | 038380-02-8 | 96   |
| 4         | 1,1'-Biphenyl, 2,2',3,4,6-Pentac... | 324    | C12H5Cl5         | 055215-17-3 | 96   |
| 5         | 1,1'-Biphenyl, 2,2',3,5,5'-penta... | 324    | C12H5Cl5         | 052663-61-3 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

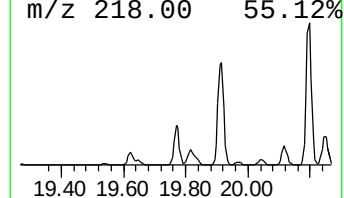
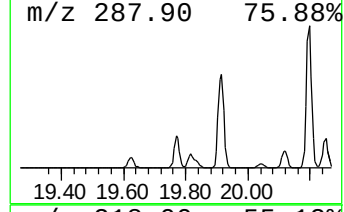
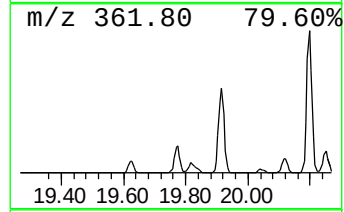
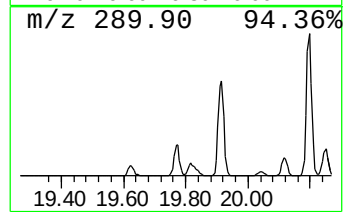
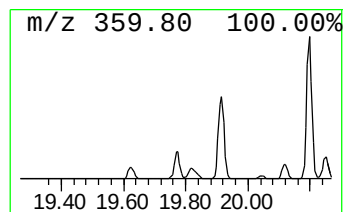
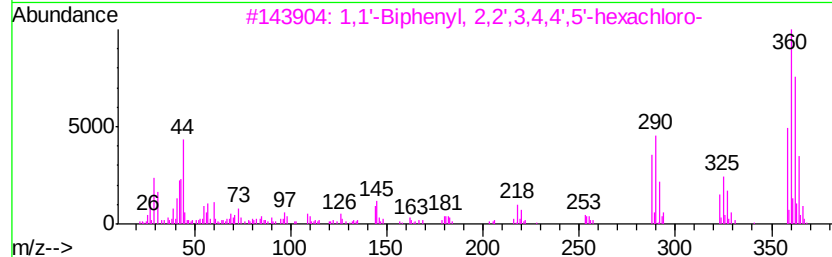
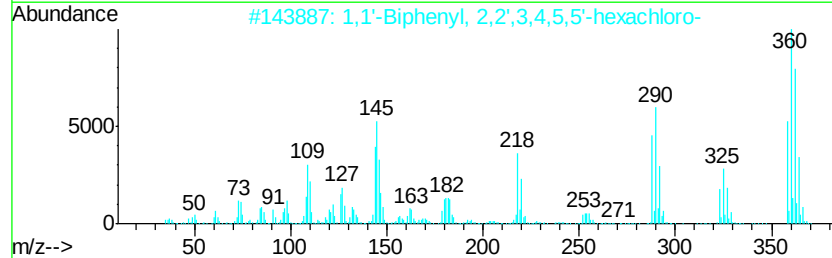
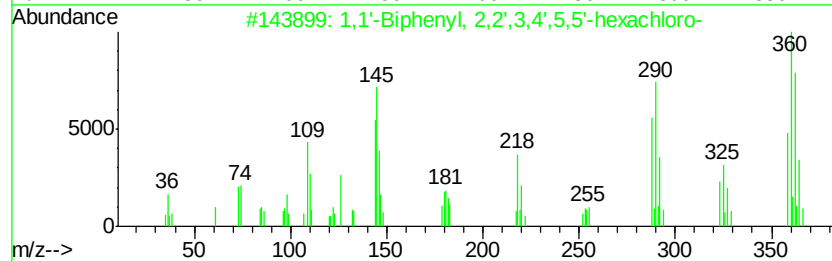
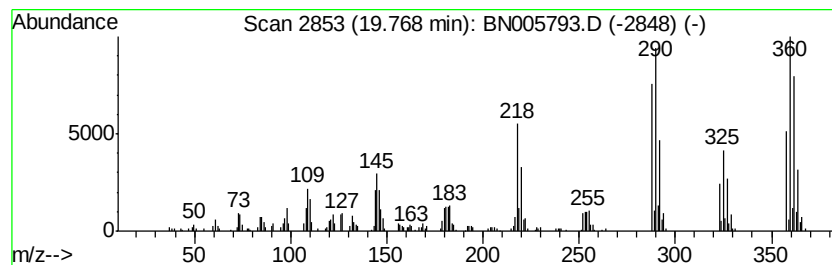
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 1,1'-Biphenyl, 2,2',3,4',5,... Concentration Rank 19

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.77 | 2.21 ng/ul | 559306 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',3,4',5,5'-he... | 358 | C12H4Cl6 | 051908-16-8 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,4,5,5'-hex... | 358 | C12H4Cl6 | 052712-04-6 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,3',4,6'-he... | 358 | C12H4Cl6 | 038380-05-1 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,2',3,3',6,6'-he... | 358 | C12H4Cl6 | 038411-22-2 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

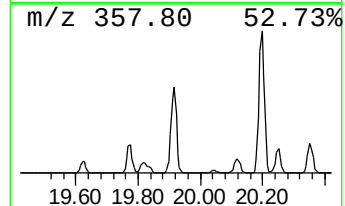
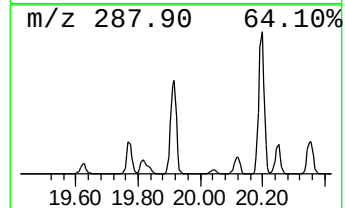
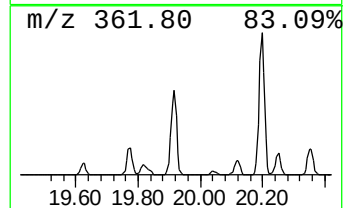
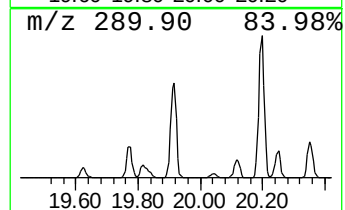
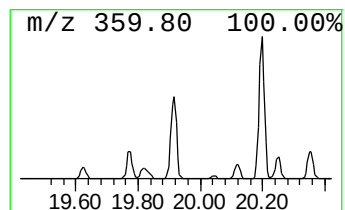
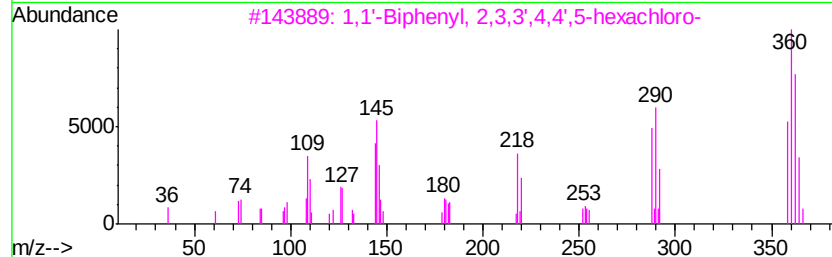
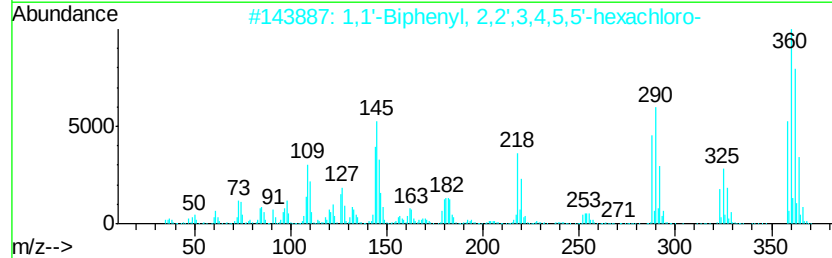
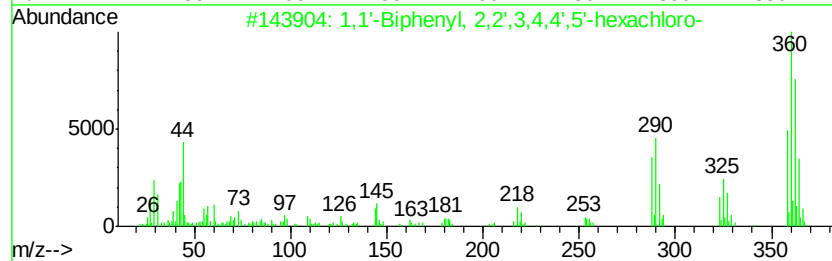
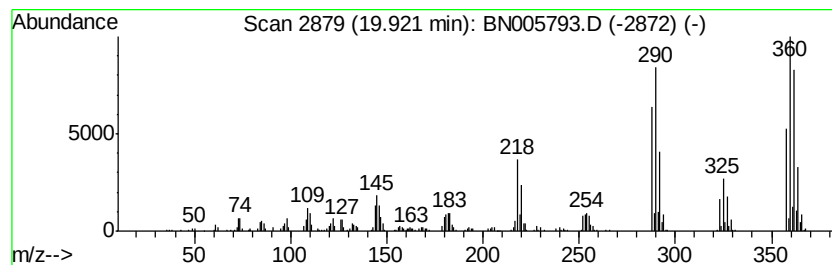
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.92 | 6.57 ng/ul | 1660920 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,4,5,5'-hex... | 358 | C12H4Cl6 | 052712-04-6 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358 | C12H4Cl6 | 038380-08-4 | 98   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 96   |
| 5    |    | 1,1'-Biphenyl, 2,2',4,4',5',6-He... | 358 | C12H4Cl6 | 060145-22-4 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

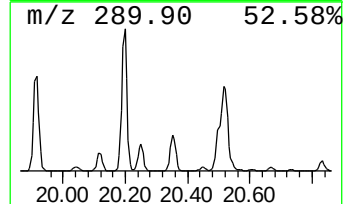
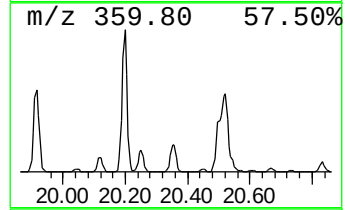
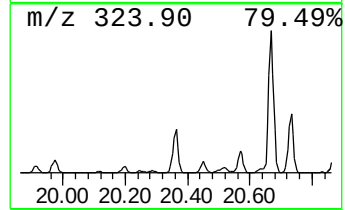
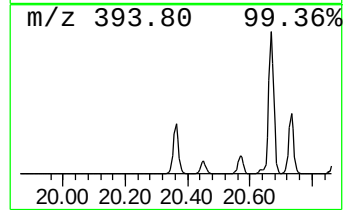
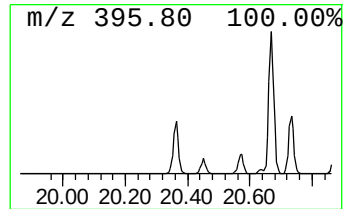
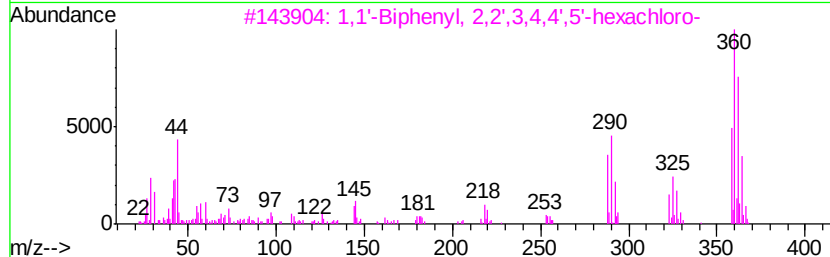
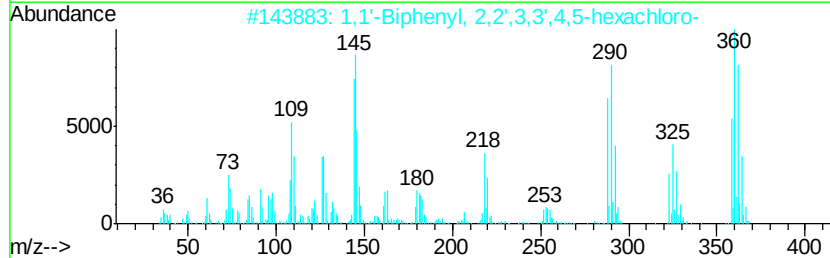
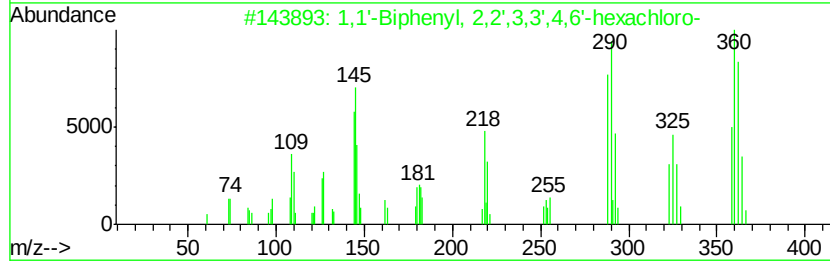
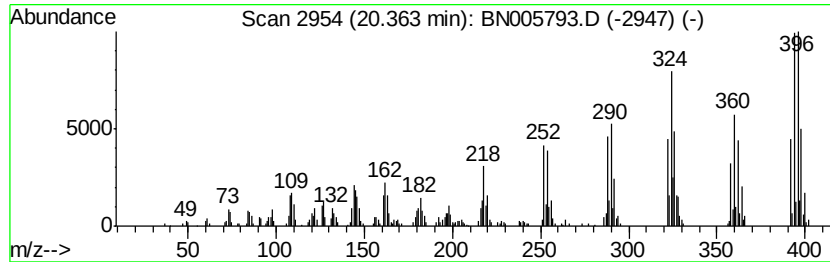
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.36 | 4.02 ng/ul | 1017290 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',3,3',4,6'-he... | 358 | C12H4Cl6 | 038380-05-1 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,3',4,5-hex... | 358 | C12H4Cl6 | 055215-18-4 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,3',4,4'-he... | 358 | C12H4Cl6 | 038380-07-3 | 99   |
| 5    |    | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 98   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

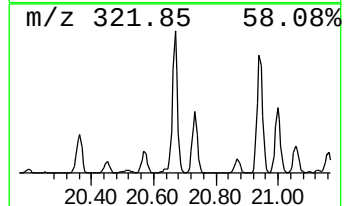
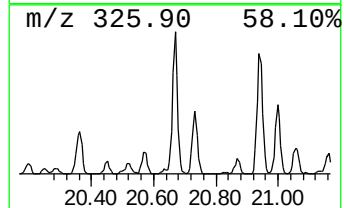
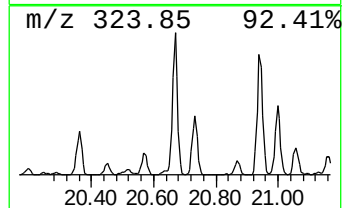
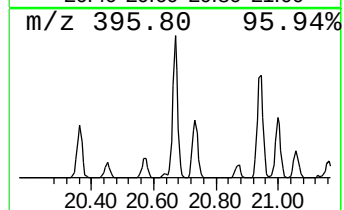
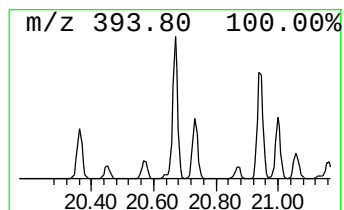
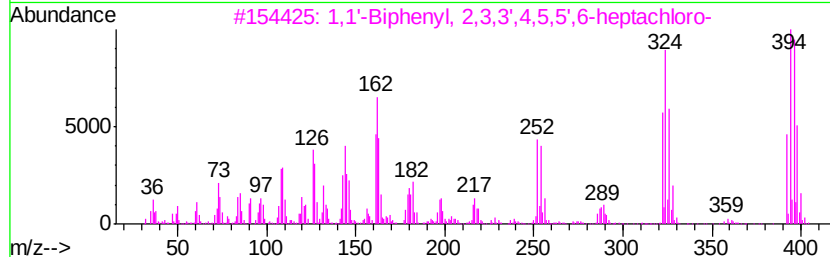
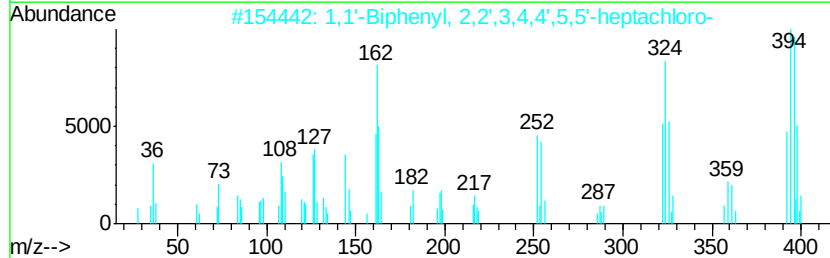
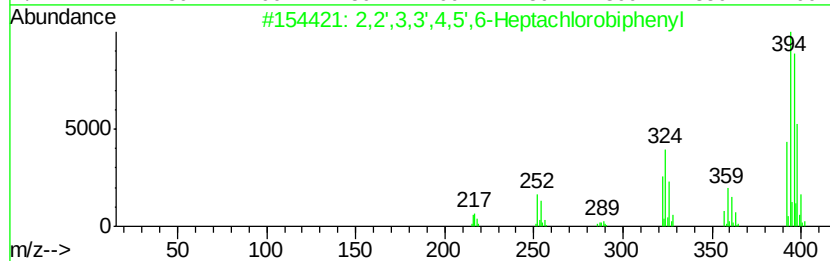
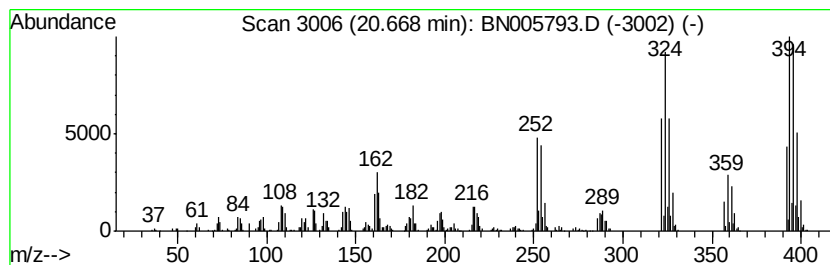
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 2,2',3,3',4,5',6-Heptachlor... Concentration Rank 5

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.67 | 5.85 ng/ul | 1479820 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2,2',3,3',4,5',6-Heptachlorobiph... | 392 | C12H3Cl7 | 040186-70-7 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,4,4',5,5'-... | 392 | C12H3Cl7 | 035065-29-3 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,3,3',4,5,5',6-h... | 392 | C12H3Cl7 | 074472-51-8 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,4,4',5,6-H... | 392 | C12H3Cl7 | 074472-47-2 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,3,3',4,4',5,6-H... | 392 | C12H3Cl7 | 041411-64-7 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

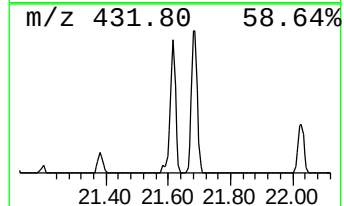
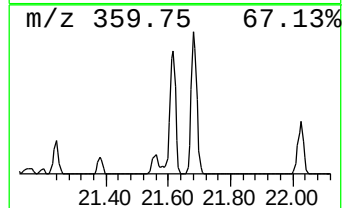
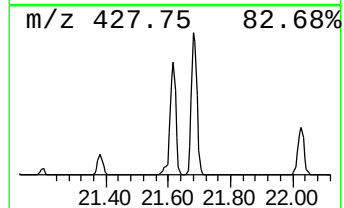
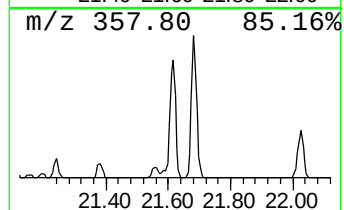
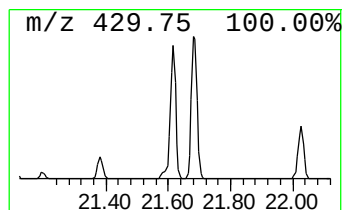
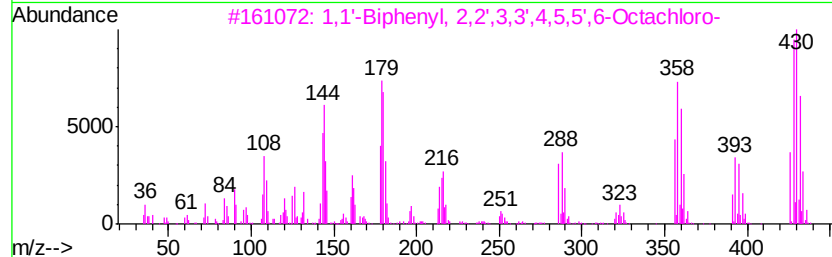
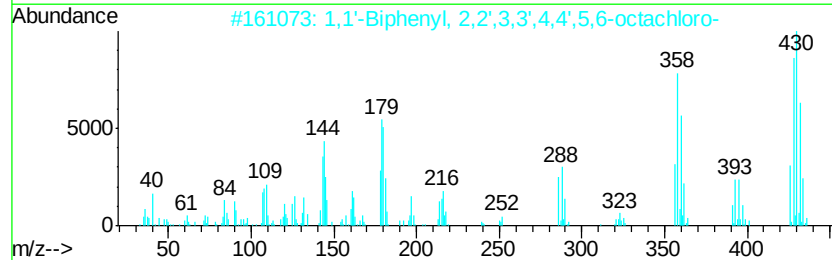
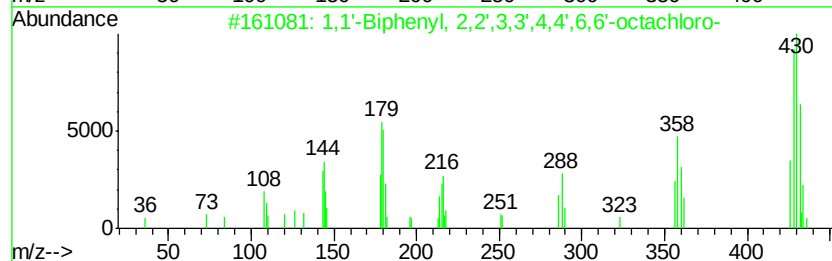
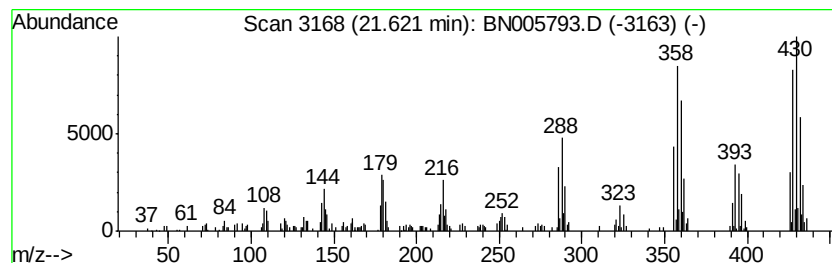
Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 12 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 15

| R.T.    | EstConc        | Area                 | Relative to ISTD | R.T.     |             |      |
|---------|----------------|----------------------|------------------|----------|-------------|------|
| 21.62   | 2.55 ng/ul     | 644545               | Chrysene-d12     | 21.22    |             |      |
| Hit# of | 5              | Tentative ID         | MW               | MolForm  | CAS#        | Qual |
| 1       | 1,1'-Biphenyl, | 2,2',3,3',4,4',6,... | 426              | C12H2Cl8 | 033091-17-7 | 99   |
| 2       | 1,1'-Biphenyl, | 2,2',3,3',4,4',5,... | 426              | C12H2Cl8 | 052663-78-2 | 99   |
| 3       | 1,1'-Biphenyl, | 2,2',3,3',4,5,5',... | 426              | C12H2Cl8 | 068194-17-2 | 99   |
| 4       | 1,1'-Biphenyl, | 2,2',3,3',4,4',5,... | 426              | C12H2Cl8 | 035694-08-7 | 99   |
| 5       | 1,1'-Biphenyl, | 2,2',3,4,4',5,6,6... | 426              | C12H2Cl8 | 074472-52-9 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

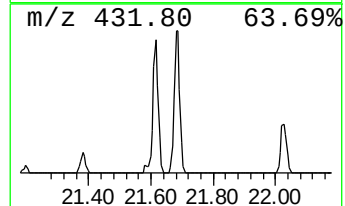
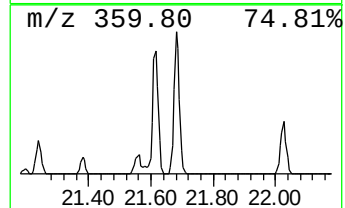
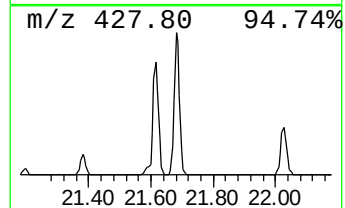
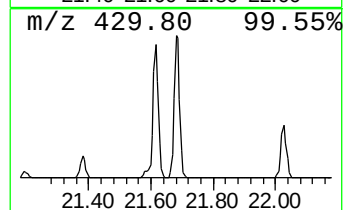
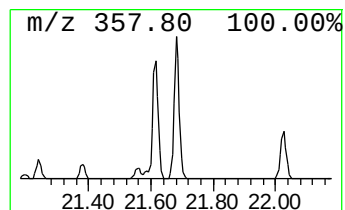
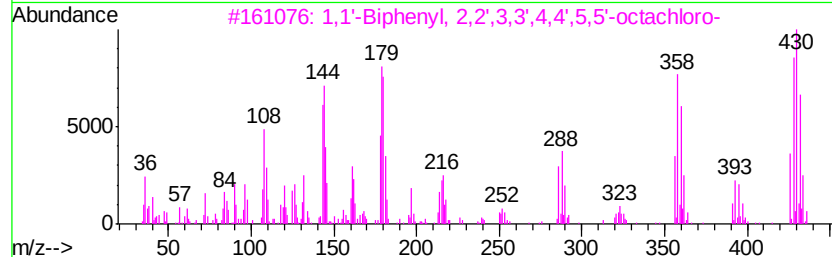
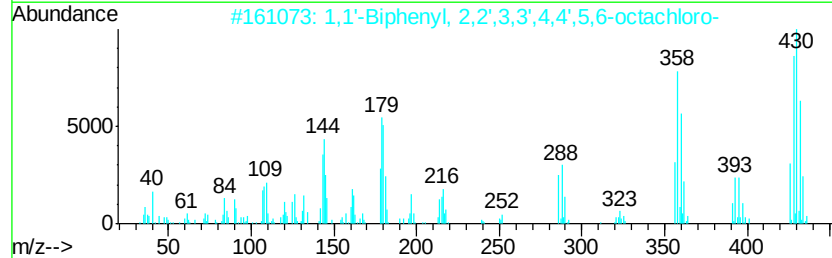
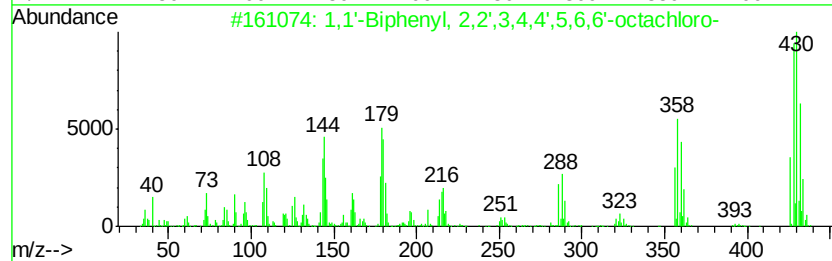
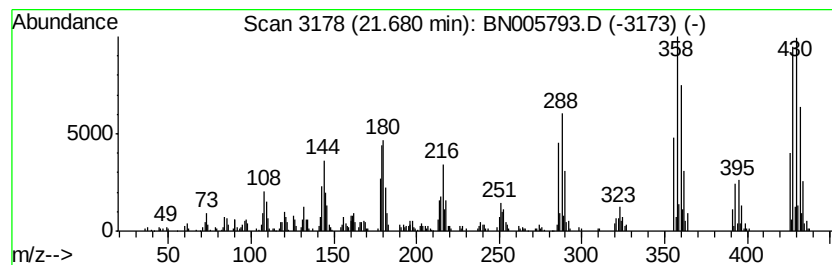
Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 12

| R.T.    | EstConc        | Area                 | Relative to ISTD | R.T.     |             |      |
|---------|----------------|----------------------|------------------|----------|-------------|------|
| 21.68   | 2.75 ng/ul     | 695149               | Chrysene-d12     | 21.22    |             |      |
| Hit# of | 5              | Tentative ID         | MW               | MolForm  | CAS#        | Qual |
| 1       | 1,1'-Biphenyl, | 2,2',3,4,4',5,6,6... | 426              | C12H2Cl8 | 074472-52-9 | 99   |
| 2       | 1,1'-Biphenyl, | 2,2',3,3',4,4',5,... | 426              | C12H2Cl8 | 052663-78-2 | 99   |
| 3       | 1,1'-Biphenyl, | 2,2',3,3',4,4',5,... | 426              | C12H2Cl8 | 035694-08-7 | 99   |
| 4       | 1,1'-Biphenyl, | 2,2',3,3',4,5',6,... | 426              | C12H2Cl8 | 040186-71-8 | 99   |
| 5       | 1,1'-Biphenyl, | 2,2',3,3',5,5',6,... | 426              | C12H2Cl8 | 002136-99-4 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

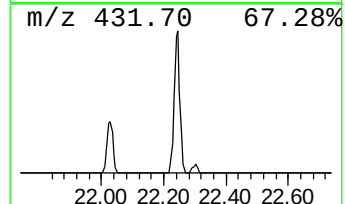
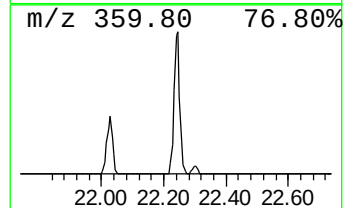
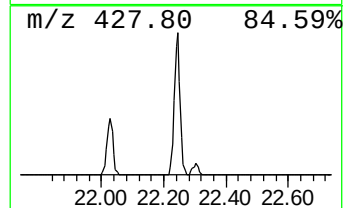
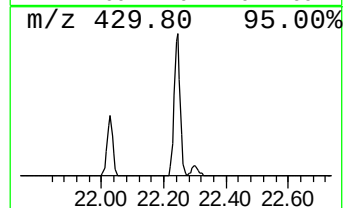
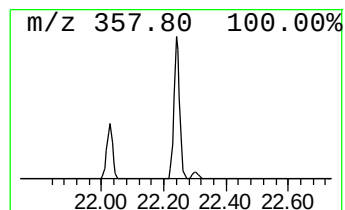
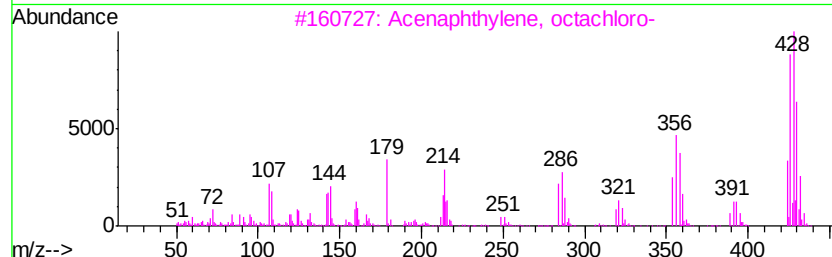
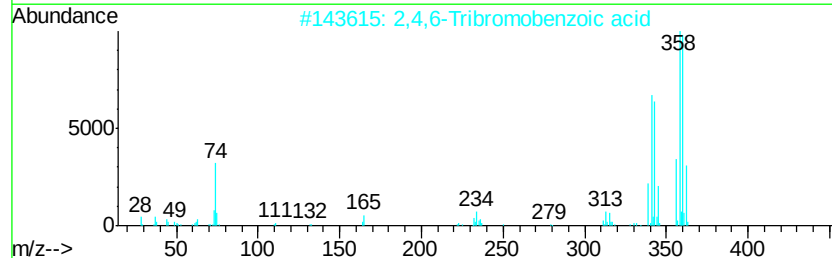
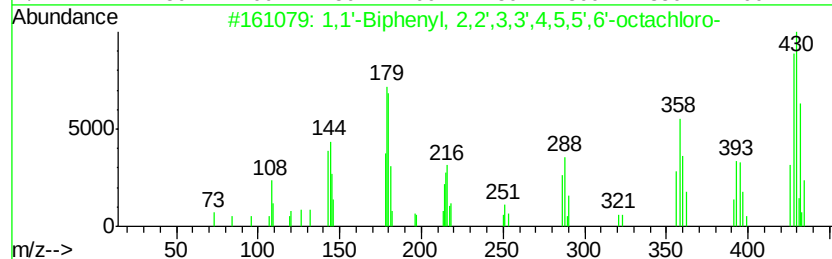
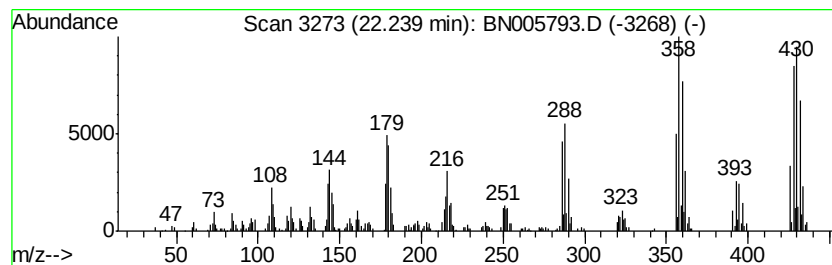
Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 13

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 22.24   | 2.63 ng/ul                          | 664129       | Chrysene-d12     | 21.22       |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 1,1'-Biphenyl, 2,2',3,3',4,5,5',... | 426          | C12H2Cl8         | 052663-75-9 | 62   |      |
| 2       | 2,4,6-Tribromobenzoic acid          | 356          | C7H3Br3O2        | 000633-12-5 | 27   |      |
| 3       | Acenaphthylene, octachloro-         | 424          | C12Cl8           | 007267-16-5 | 17   |      |
| 4       | 6-Bromo-4-(2-chloro-phenyl)-2-hy... | 358          | C16H8BrClN2O     | 284663-85-0 | 11   |      |
| 5       | Estra-1,3,5(10)-trien-17-one, 3,... | 430          | C24H38O3Si2      | 051497-39-3 | 9    |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

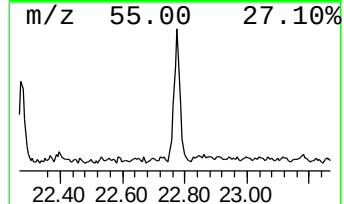
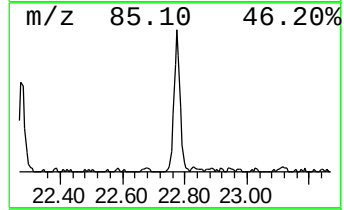
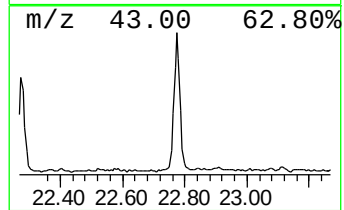
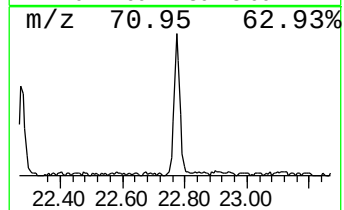
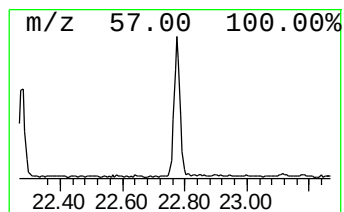
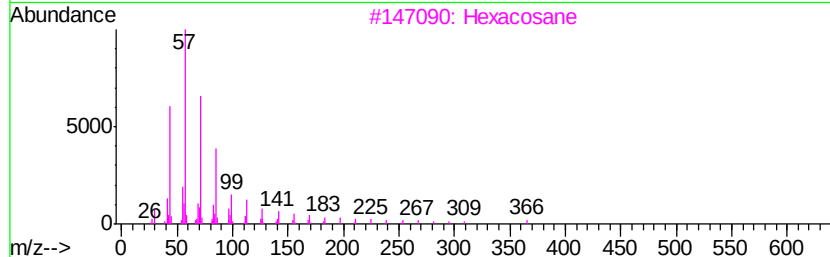
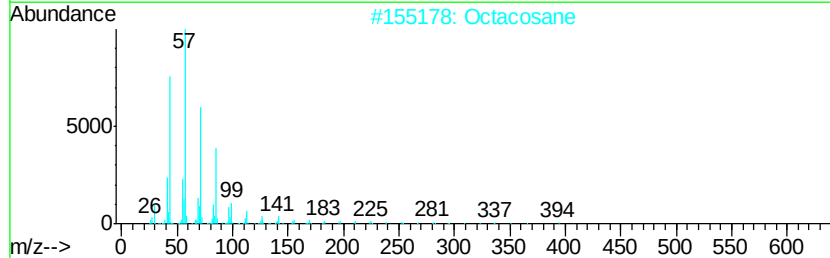
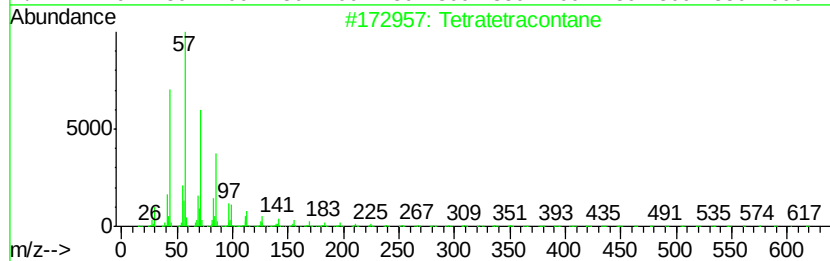
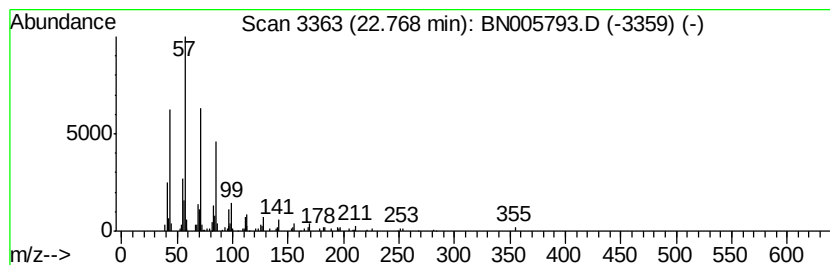
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.77 | 2.59 ng/ul | 283855 | Perylene-d12     | 23.44 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 94   |
| 2    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    |   | Hexacosane            | 366 | C26H54  | 000630-01-3 | 91   |
| 4    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    |   | triacontane           | 422 | C30H62  | 000638-68-6 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

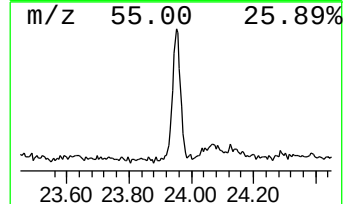
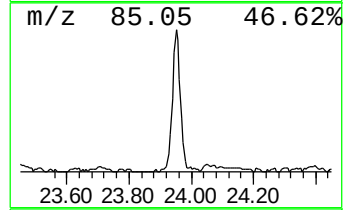
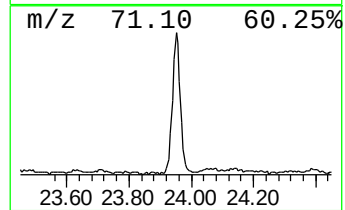
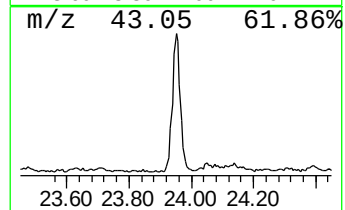
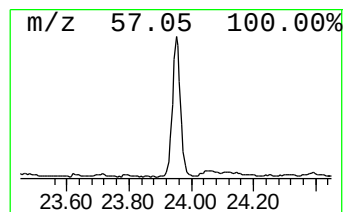
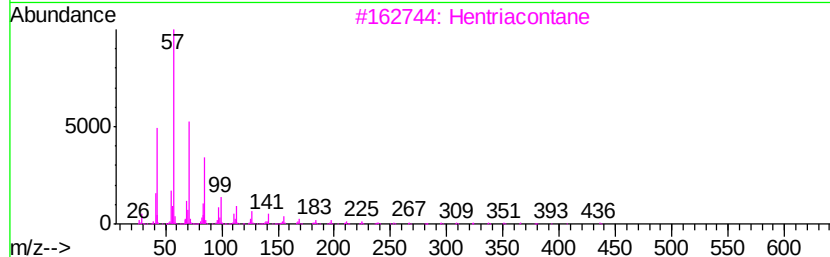
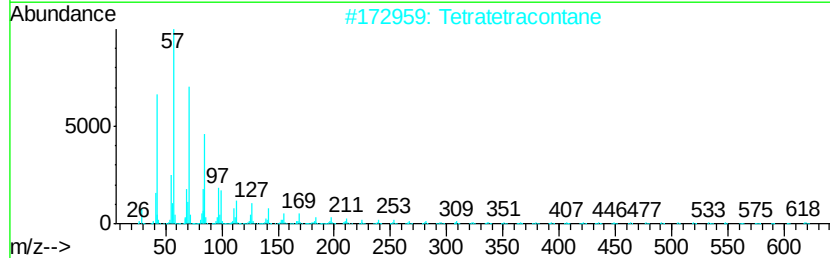
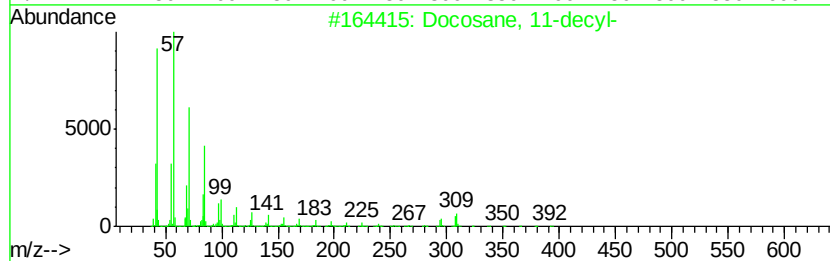
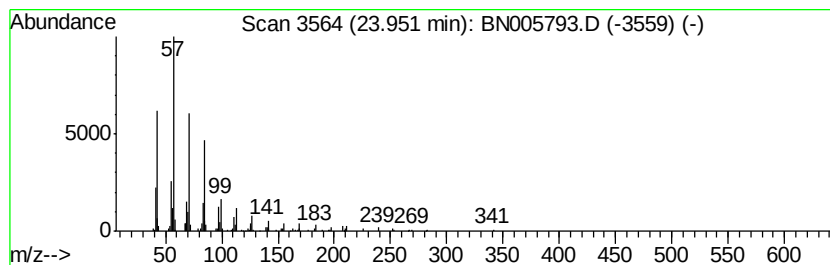
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.95 | 3.46 ng/ul | 380122 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Docosane, 11-decyl-   | 451 | C32H66  | 055401-55-3 | 91   |
| 2    |    | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 91   |
| 3    |    | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 91   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

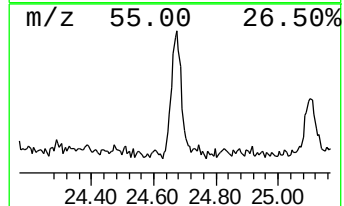
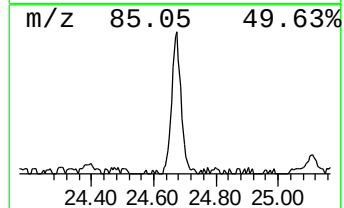
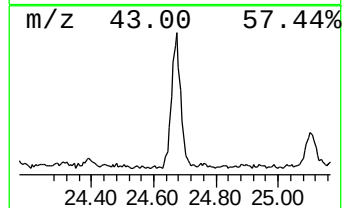
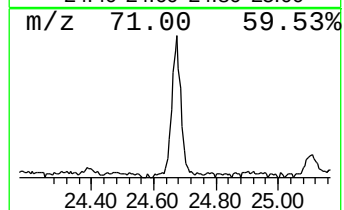
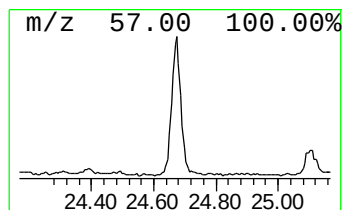
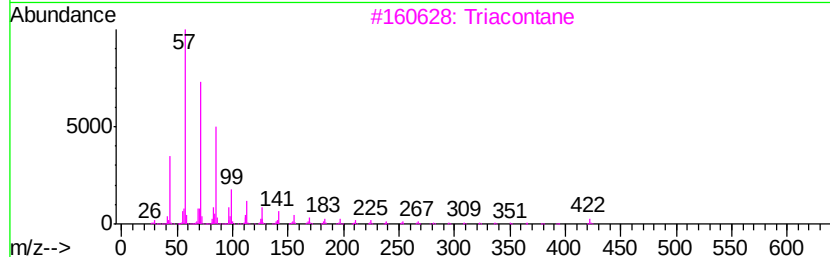
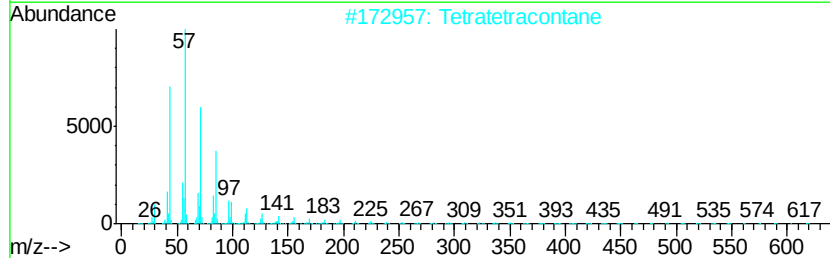
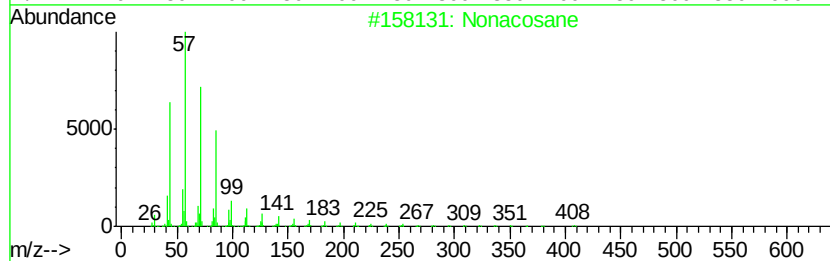
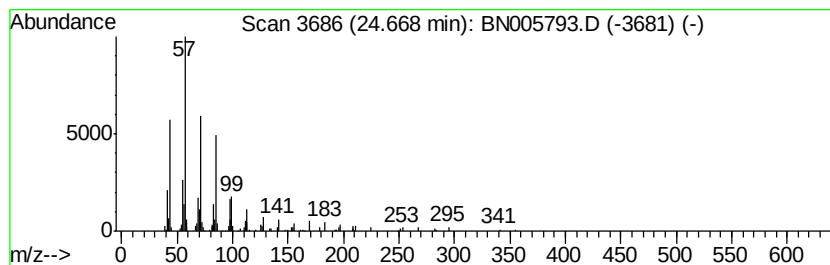
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.67 | 2.38 ng/ul | 261338 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Nonacosane        | 408 | C29H60  | 000630-03-5 | 90   |
| 2    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 90   |
| 3    |    | triacontane       | 422 | C30H62  | 000638-68-6 | 90   |
| 4    |    | Hexacosane        | 366 | C26H54  | 000630-01-3 | 90   |
| 5    |    | Heneicosane       | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

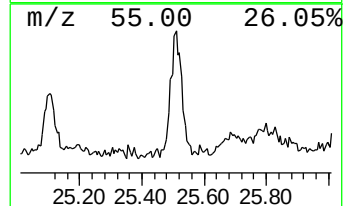
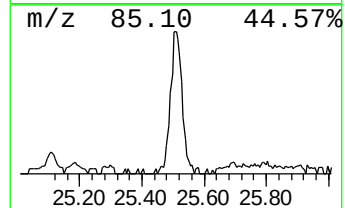
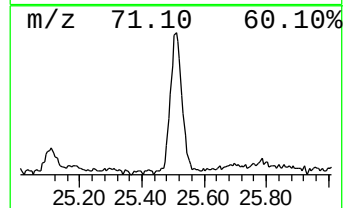
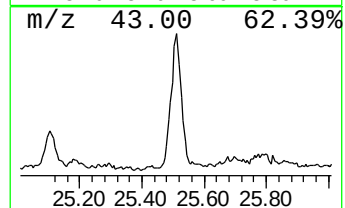
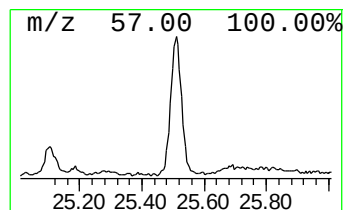
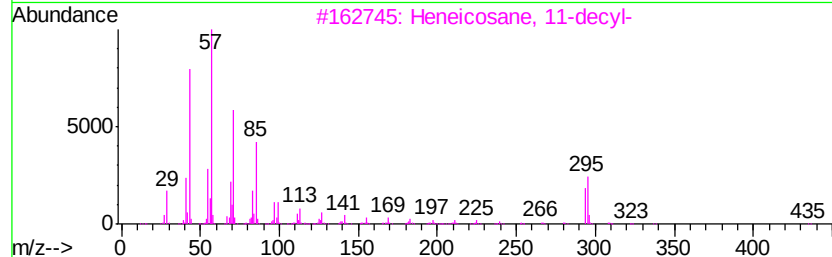
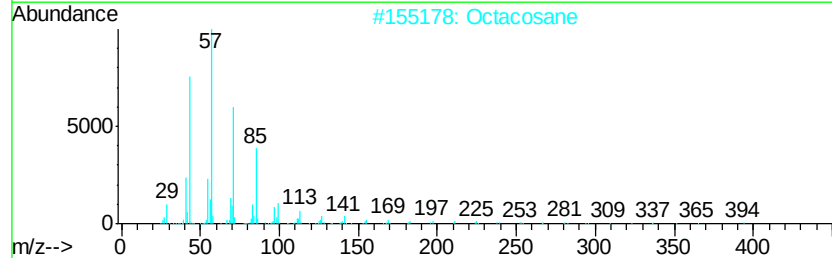
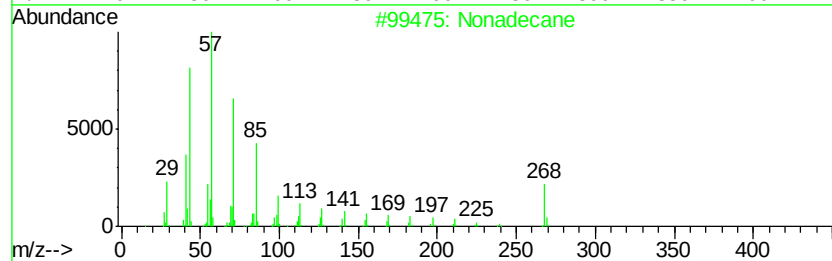
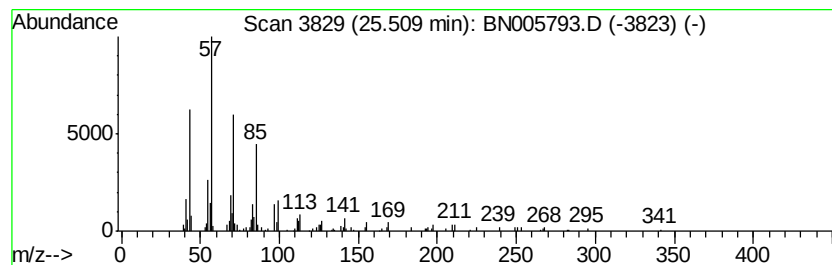
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 25.51 | 2.44 ng/ul | 267243 | Perylene-d12     | 23.44 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Nonadecane             | 268 | C19H40  | 000629-92-5 | 91   |
| 2    |    |   | Octacosane             | 394 | C28H58  | 000630-02-4 | 90   |
| 3    |    |   | Heneicosane, 11-decyl- | 437 | C31H64  | 055320-06-4 | 90   |
| 4    |    |   | Tetratetracontane      | 619 | C44H90  | 007098-22-8 | 90   |
| 5    |    |   | Nonacosane             | 408 | C29H60  | 000630-03-5 | 90   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
Data File : BN005793.D  
Acq On : 20 May 2019 11:37  
Operator : JU/SJ  
Sample : K2693-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

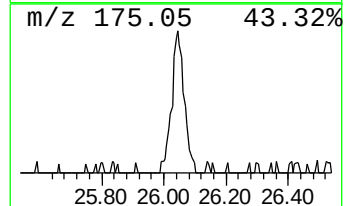
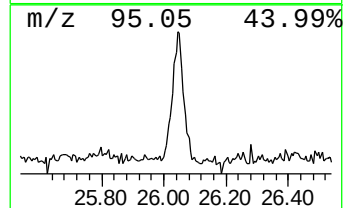
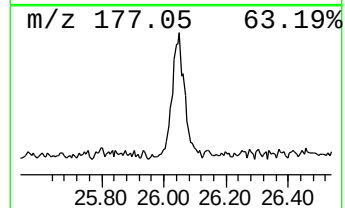
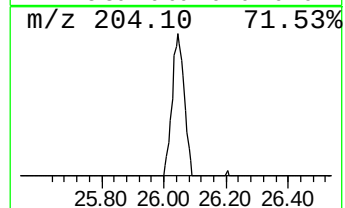
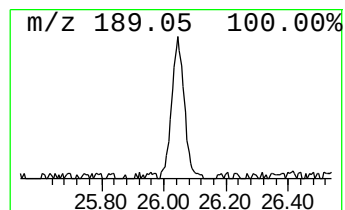
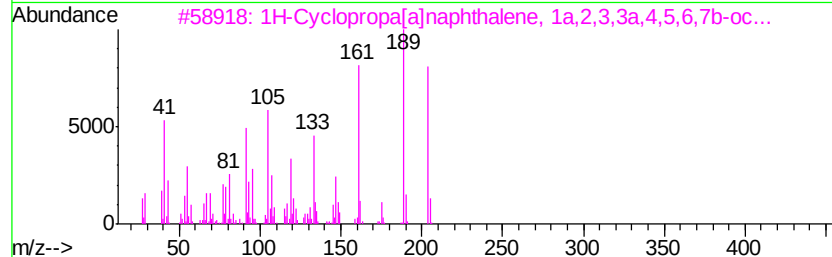
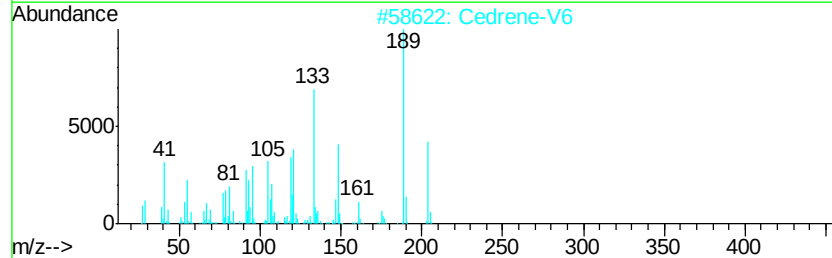
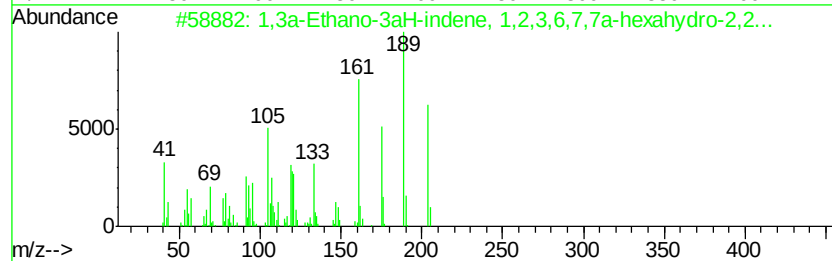
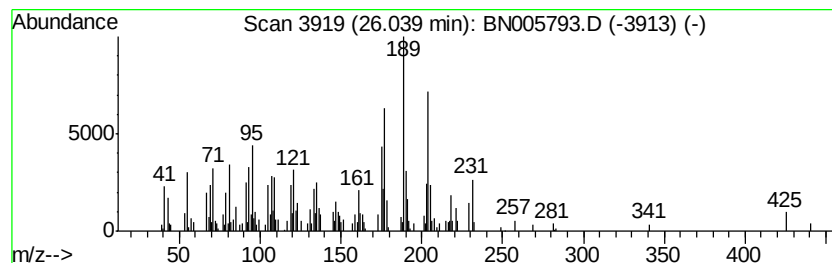
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 unknown-01 Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.04 | 3.57 ng/ul | 391711 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 1,3a-Ethano-3aH-indene, 1,2,3,6,... | 204 | C15H24  | 004545-68-0  | 49   |
| 2    |    | Cedrene-V6                          | 204 | C15H24  | 1000162-76-8 | 46   |
| 3    |    | 1H-Cyclopropa[a]naphthalene, 1a,... | 204 | C15H24  | 000489-29-2  | 45   |
| 4    |    | 1H-Cyclopropa[a]naphthalene, 1a,... | 204 | C15H24  | 1000147-32-8 | 43   |
| 5    |    | Naphthalene, 1,2,3,4,4a,5,6,8a-o... | 204 | C15H24  | 000473-13-2  | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052019\  
 Data File : BN005793.D  
 Acq On : 20 May 2019 11:37  
 Operator : JU/SJ  
 Sample : K2693-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFH55

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.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, 2,... | 18.90 | 2.8     | ng/ul | 204116   | 4                     | 16.97 | 1483030 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.77 | 2.2     | ng/ul | 559306   | 5                     | 21.22 | 5056550 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.92 | 6.6     | ng/ul | 1660920  | 5                     | 21.22 | 5056550 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.36 | 4.0     | ng/ul | 1017290  | 5                     | 21.22 | 5056550 | 20.0 |
| 2,2',3,3',4,5',6-... | 20.67 | 5.8     | ng/ul | 1479820  | 5                     | 21.22 | 5056550 | 20.0 |
| 1,1'-Biphenyl, 2,... | 21.62 | 2.5     | ng/ul | 644545   | 5                     | 21.22 | 5056550 | 20.0 |
| 1,1'-Biphenyl, 2,... | 21.68 | 2.8     | ng/ul | 695149   | 5                     | 21.22 | 5056550 | 20.0 |
| 1,1'-Biphenyl, 2,... | 22.24 | 2.6     | ng/ul | 664129   | 5                     | 21.22 | 5056550 | 20.0 |
| (DEL) Alkane: Str... | 22.77 | 2.6     | ng/ul | 283855   | 6                     | 23.44 | 2194610 | 20.0 |
| (DEL) Alkane: Str... | 23.95 | 3.5     | ng/ul | 380122   | 6                     | 23.44 | 2194610 | 20.0 |
| (DEL) Alkane: Str... | 24.67 | 2.4     | ng/ul | 261338   | 6                     | 23.44 | 2194610 | 20.0 |
| (DEL) Alkane: Str... | 25.51 | 2.4     | ng/ul | 267243   | 6                     | 23.44 | 2194610 | 20.0 |
| unknown-01           | 26.04 | 3.6     | ng/ul | 391711   | 6                     | 23.44 | 2194610 | 20.0 |