

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
 Data File : BM011932.D  
 Acq On : 05 Oct 2017 19:32  
 Operator : SJ/JU  
 Sample : I5449-05  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-60(5-7)-092617

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM100317.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         | 4.034       | 156           | 161         | 169          | rVB      | 130240         | 183336        | 1.94%           | 0.204%        |
| 2         | 4.969       | 314           | 320         | 329          | rVB2     | 55340          | 108529        | 1.15%           | 0.121%        |
| 3         | 5.363       | 383           | 387         | 395          | rVB      | 76194          | 113758        | 1.20%           | 0.127%        |
| 4         | 5.499       | 404           | 410         | 424          | rVB      | 206715         | 451086        | 4.77%           | 0.502%        |
| 5         | 5.851       | 464           | 470         | 479          | rVB3     | 182388         | 442246        | 4.68%           | 0.492%        |
| 6         | 6.846       | 634           | 639         | 645          | rBV3     | 68409          | 110239        | 1.17%           | 0.123%        |
| 7         | 6.951       | 652           | 657         | 662          | rBV2     | 76475          | 117180        | 1.24%           | 0.130%        |
| 8         | 7.028       | 662           | 670         | 677          | rBV      | 815160         | 1480464       | 15.66%          | 1.648%        |
| 9         | 7.198       | 691           | 699         | 705          | rBV      | 643538         | 1054055       | 11.15%          | 1.173%        |
| 10        | 7.398       | 727           | 733         | 741          | rBV      | 929470         | 1498850       | 15.85%          | 1.669%        |
| 11        | 7.475       | 741           | 746         | 749          | rVV      | 174577         | 263424        | 2.79%           | 0.293%        |
| 12        | 7.510       | 749           | 752         | 759          | rVB      | 179125         | 270231        | 2.86%           | 0.301%        |
| 13        | 7.869       | 802           | 813         | 821          | rBV      | 1141988        | 1894680       | 20.04%          | 2.109%        |
| 14        | 8.110       | 851           | 854         | 866          | rVB4     | 51119          | 120983        | 1.28%           | 0.135%        |
| 15        | 8.410       | 899           | 905         | 915          | rVB3     | 59201          | 142221        | 1.50%           | 0.158%        |
| 16        | 8.504       | 915           | 921         | 926          | rBV2     | 73658          | 134328        | 1.42%           | 0.150%        |
| 17        | 8.569       | 926           | 932         | 946          | rVV      | 951279         | 1656575       | 17.52%          | 1.844%        |
| 18        | 8.969       | 989           | 1000        | 1004         | rBV3     | 51830          | 104073        | 1.10%           | 0.116%        |
| 19        | 9.034       | 1004          | 1011        | 1016         | rVV      | 820622         | 1376810       | 14.56%          | 1.533%        |
| 20        | 9.081       | 1016          | 1019        | 1025         | rVB      | 143918         | 211571        | 2.24%           | 0.236%        |
| 21        | 9.757       | 1120          | 1134        | 1145         | rBV      | 702980         | 1294415       | 13.69%          | 1.441%        |
| 22        | 10.292      | 1218          | 1225        | 1234         | rBV      | 1004353        | 1795111       | 18.99%          | 1.998%        |
| 23        | 10.375      | 1234          | 1239        | 1248         | rVB3     | 54191          | 110610        | 1.17%           | 0.123%        |
| 24        | 10.634      | 1276          | 1283        | 1284         | rBV3     | 66309          | 101922        | 1.08%           | 0.113%        |
| 25        | 10.675      | 1284          | 1290        | 1296         | rVV      | 1486149        | 2584308       | 27.33%          | 2.877%        |
| 26        | 10.722      | 1296          | 1298        | 1306         | rVB      | 99163          | 141660        | 1.50%           | 0.158%        |
| 27        | 10.816      | 1306          | 1314        | 1330         | rBV      | 300102         | 673042        | 7.12%           | 0.749%        |
| 28        | 11.486      | 1414          | 1428        | 1440         | rBV      | 1048864        | 1894856       | 20.04%          | 2.109%        |
| 29        | 12.081      | 1524          | 1529        | 1539         | rVB      | 64812          | 104199        | 1.10%           | 0.116%        |
| 30        | 13.322      | 1734          | 1740        | 1749         | rBV2     | 71329          | 140832        | 1.49%           | 0.157%        |
| 31        | 13.916      | 1832          | 1841        | 1845         | rVV      | 1760631        | 2527273       | 26.73%          | 2.813%        |
| 32        | 13.963      | 1845          | 1849        | 1856         | rVB      | 794060         | 1179661       | 12.48%          | 1.313%        |
| 33        | 14.033      | 1856          | 1861        | 1864         | rBV3     | 70620          | 94814         | 1.00%           | 0.106%        |
| 34        | 14.204      | 1884          | 1890        | 1895         | rBV      | 1924345        | 3027252       | 32.02%          | 3.370%        |

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 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM100317.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 14.392 | 1917 | 1922 | 1931 | rVB  | 118505  | 174455  | 1.85%   | 0.194%  |
| 36 | 14.516 | 1932 | 1943 | 1950 | rVV3 | 2088641 | 4001536 | 42.32%  | 4.455%  |
| 37 | 14.574 | 1950 | 1953 | 1962 | rVB4 | 64424   | 122004  | 1.29%   | 0.136%  |
| 38 | 14.710 | 1970 | 1976 | 1987 | rBV  | 289368  | 629809  | 6.66%   | 0.701%  |
| 39 | 14.910 | 2005 | 2010 | 2019 | rVB2 | 98064   | 186184  | 1.97%   | 0.207%  |
| 40 | 15.345 | 2079 | 2084 | 2090 | rVB  | 129967  | 173809  | 1.84%   | 0.193%  |
| 41 | 15.504 | 2104 | 2111 | 2117 | rBV  | 2334738 | 3407565 | 36.04%  | 3.793%  |
| 42 | 15.627 | 2127 | 2132 | 2139 | rBV  | 496419  | 732328  | 7.75%   | 0.815%  |
| 43 | 16.204 | 2226 | 2230 | 2234 | rBV  | 175314  | 281577  | 2.98%   | 0.313%  |
| 44 | 16.333 | 2247 | 2252 | 2255 | rBV  | 78676   | 125742  | 1.33%   | 0.140%  |
| 45 | 16.386 | 2258 | 2261 | 2267 | rVB2 | 63462   | 113790  | 1.20%   | 0.127%  |
| 46 | 16.645 | 2301 | 2305 | 2311 | rVB4 | 92037   | 172005  | 1.82%   | 0.191%  |
| 47 | 16.715 | 2313 | 2317 | 2321 | rVV2 | 78977   | 102870  | 1.09%   | 0.115%  |
| 48 | 16.992 | 2359 | 2364 | 2370 | rBV4 | 111796  | 184075  | 1.95%   | 0.205%  |
| 49 | 17.133 | 2385 | 2388 | 2396 | rBV9 | 40896   | 98164   | 1.04%   | 0.109%  |
| 50 | 17.257 | 2403 | 2409 | 2413 | rBV  | 2098723 | 2976222 | 31.48%  | 3.313%  |
| 51 | 17.298 | 2413 | 2416 | 2420 | rVB  | 913254  | 1116636 | 11.81%  | 1.243%  |
| 52 | 17.357 | 2420 | 2426 | 2430 | rBV  | 2067201 | 3025942 | 32.00%  | 3.369%  |
| 53 | 18.133 | 2553 | 2558 | 2562 | rBV  | 1491706 | 2006933 | 21.23%  | 2.234%  |
| 54 | 18.174 | 2562 | 2565 | 2570 | rVB  | 242790  | 371157  | 3.93%   | 0.413%  |
| 55 | 18.292 | 2581 | 2585 | 2594 | rBV3 | 578830  | 965229  | 10.21%  | 1.075%  |
| 56 | 18.398 | 2599 | 2603 | 2605 | rVV  | 482823  | 675920  | 7.15%   | 0.752%  |
| 57 | 18.445 | 2605 | 2611 | 2616 | rVB  | 872700  | 1739112 | 18.39%  | 1.936%  |
| 58 | 18.627 | 2639 | 2642 | 2646 | rBV  | 128434  | 147766  | 1.56%   | 0.164%  |
| 59 | 18.674 | 2648 | 2650 | 2654 | rVB3 | 119363  | 141589  | 1.50%   | 0.158%  |
| 60 | 18.980 | 2698 | 2702 | 2707 | rVB  | 379077  | 544888  | 5.76%   | 0.607%  |
| 61 | 19.045 | 2709 | 2713 | 2719 | rVV2 | 171759  | 325778  | 3.45%   | 0.363%  |
| 62 | 19.115 | 2721 | 2725 | 2732 | rVB2 | 537650  | 869602  | 9.20%   | 0.968%  |
| 63 | 19.309 | 2752 | 2758 | 2763 | rVB  | 1874403 | 2577219 | 27.26%  | 2.869%  |
| 64 | 19.409 | 2771 | 2775 | 2787 | rBV  | 1618190 | 2305980 | 24.39%  | 2.567%  |
| 65 | 19.645 | 2810 | 2815 | 2818 | rBV  | 2760140 | 4171400 | 44.12%  | 4.644%  |
| 66 | 19.674 | 2818 | 2820 | 2827 | rVB  | 1660168 | 1911751 | 20.22%  | 2.128%  |
| 67 | 20.556 | 2966 | 2970 | 2976 | rVB  | 7879280 | 9454710 | 100.00% | 10.525% |
| 68 | 21.121 | 3063 | 3066 | 3069 | rVB2 | 613885  | 679253  | 7.18%   | 0.756%  |
| 69 | 21.427 | 3112 | 3118 | 3122 | rBV2 | 2819102 | 4774091 | 50.49%  | 5.315%  |
| 70 | 21.462 | 3122 | 3124 | 3130 | rVB  | 939564  | 1129162 | 11.94%  | 1.257%  |
| 71 | 23.062 | 3391 | 3396 | 3414 | rVB2 | 1510218 | 4095554 | 43.32%  | 4.559%  |

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Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
B-60(5-7)-092617

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 1 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM100317.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 23.609 | 3484 | 3489 | 3494 | rBV2 | 1746475 | 3171517 | 33.54% | 3.531% |
| 73 | 23.756 | 3509 | 3514 | 3520 | rBV  | 1569705 | 2741819 | 29.00% | 3.052% |

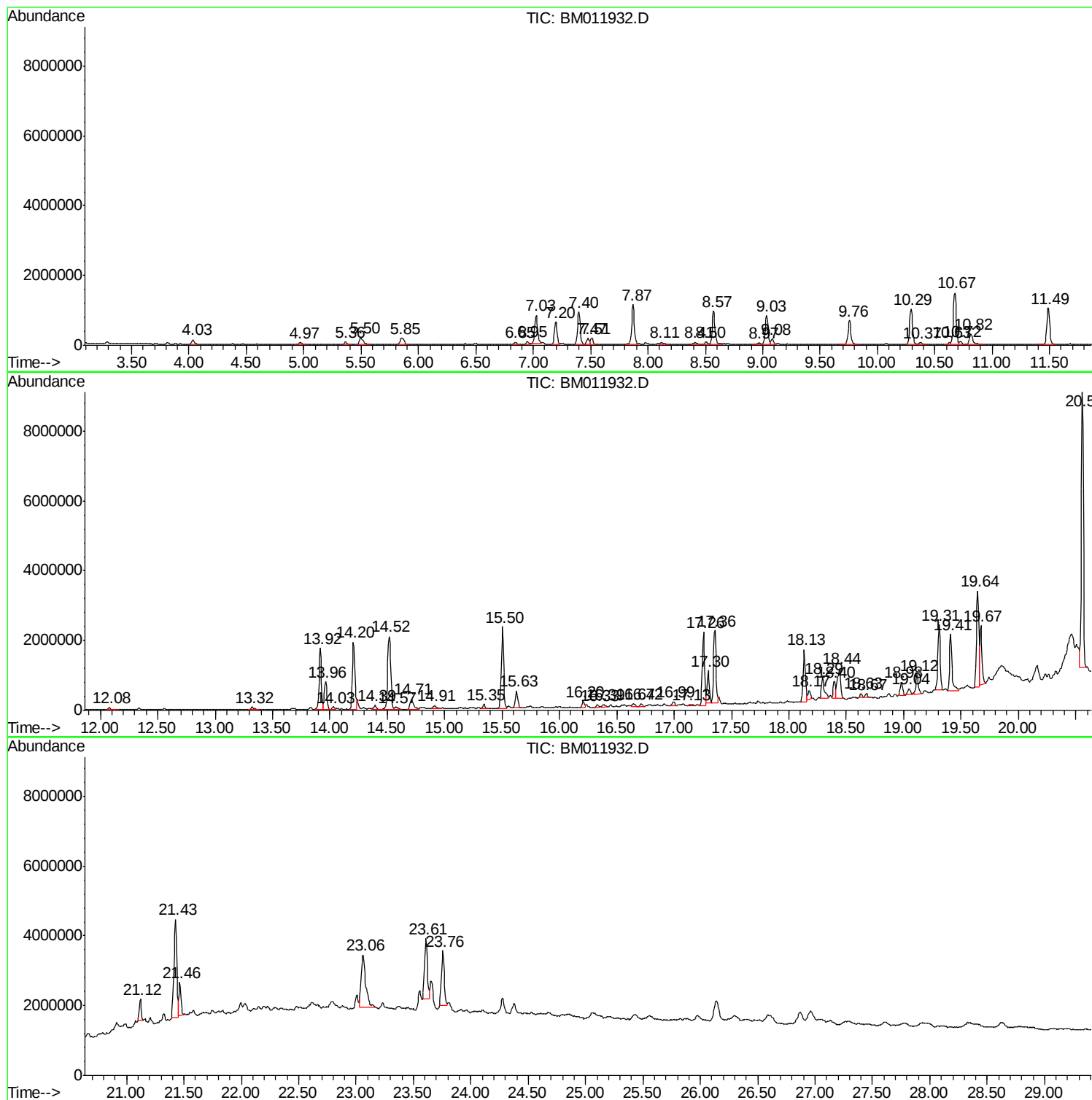
Sum of corrected areas: 89829737

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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

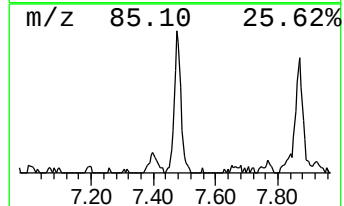
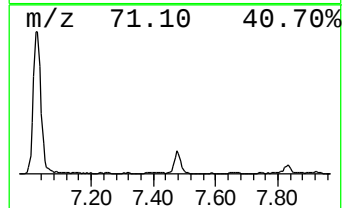
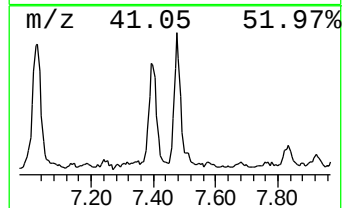
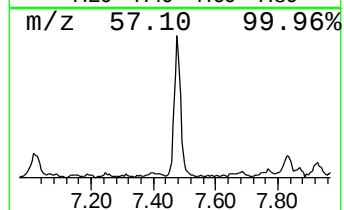
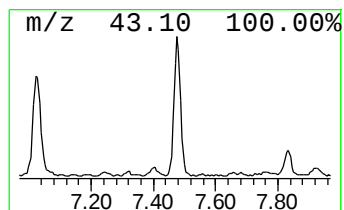
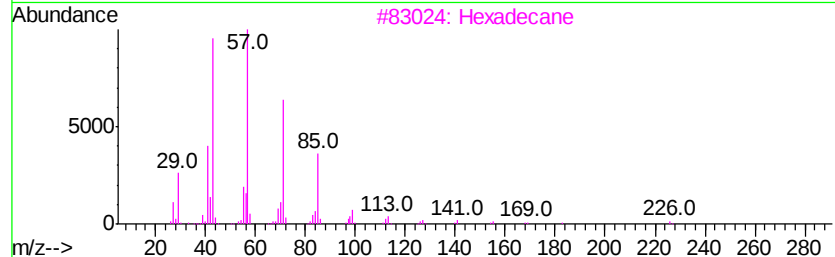
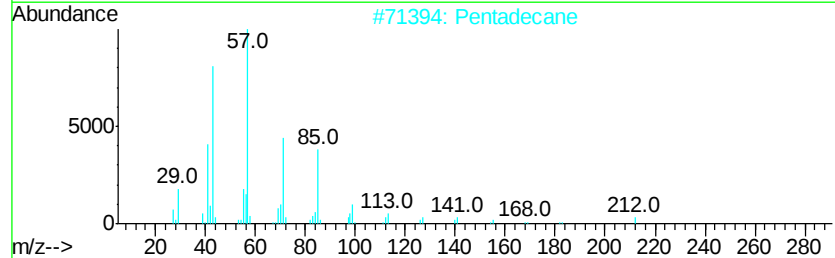
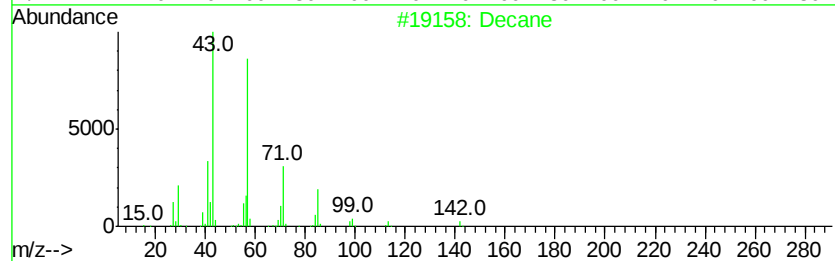
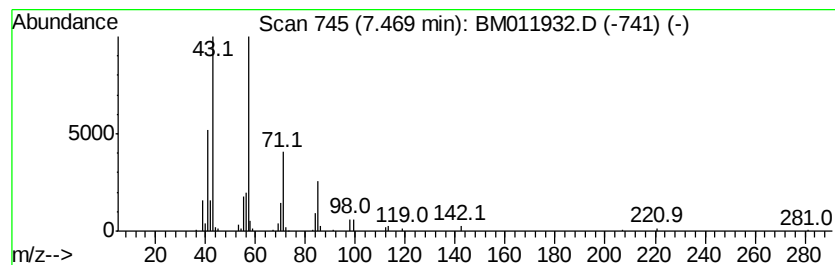
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.47 | 2.78 ng/ul | 263424 | 1,4-Dichlorobenzene-d4 | 7.87 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Decane                | 142 | C10H22  | 000124-18-5 | 93   |
| 2    |    | Pentadecane           | 212 | C15H32  | 000629-62-9 | 83   |
| 3    |    | Hexadecane            | 226 | C16H34  | 000544-76-3 | 83   |
| 4    |    | Octane, 3,5-dimethyl- | 142 | C10H22  | 015869-93-9 | 80   |
| 5    |    | Tridecane             | 184 | C13H28  | 000629-50-5 | 78   |



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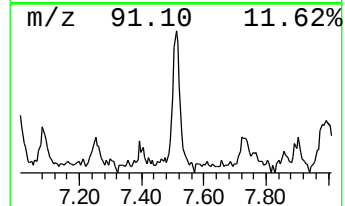
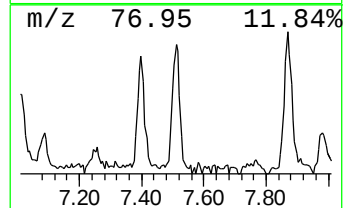
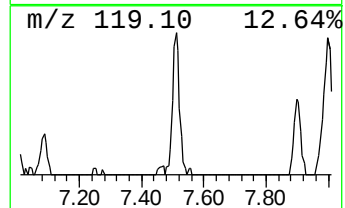
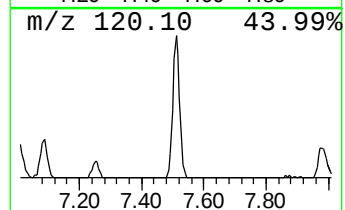
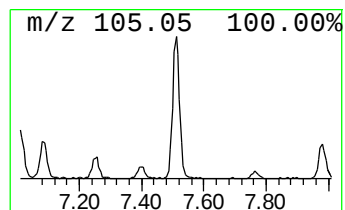
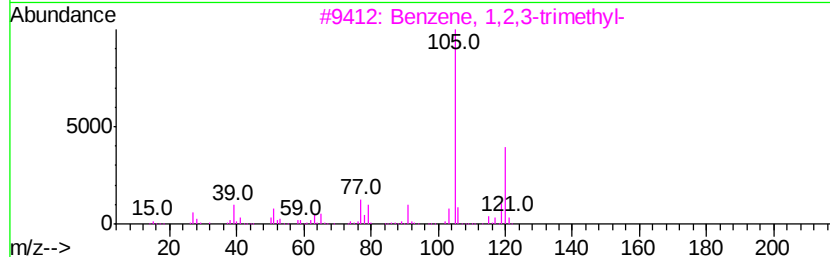
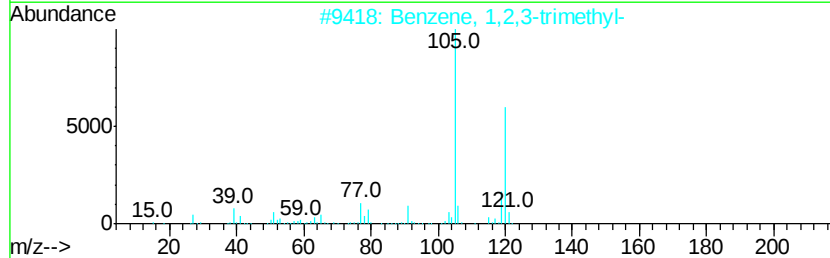
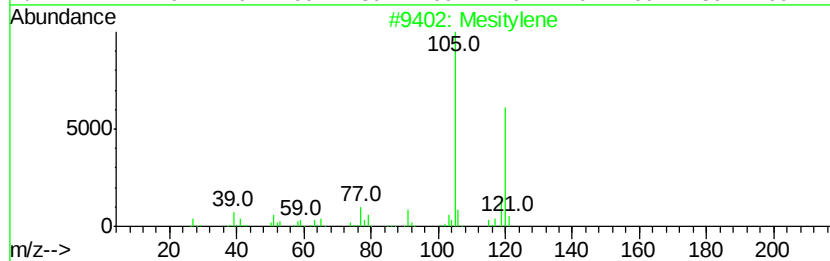
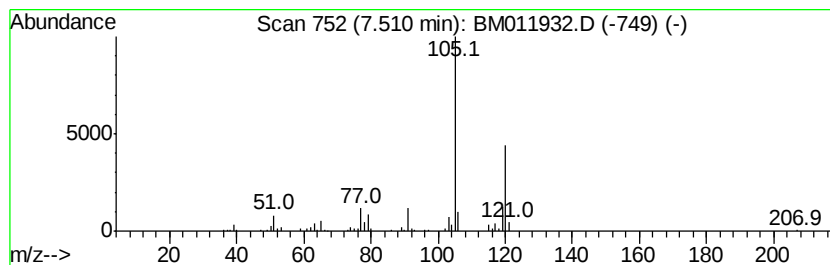
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Mesitylene Concentration Rank 11

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.51 | 2.85 ng/ul | 270231 | 1,4-Dichlorobenzene-d4 | 7.87 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Mesitylene                | 120 | C9H12   | 000108-67-8 | 97   |
| 2    |    | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 97   |
| 3    |    | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 95   |
| 4    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 95   |
| 5    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |



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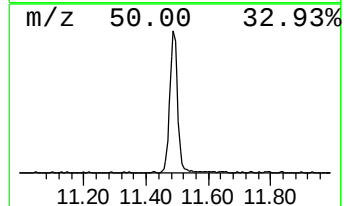
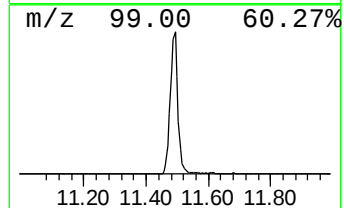
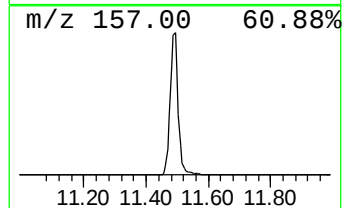
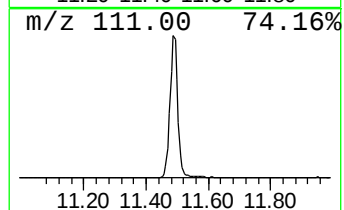
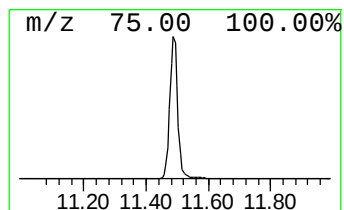
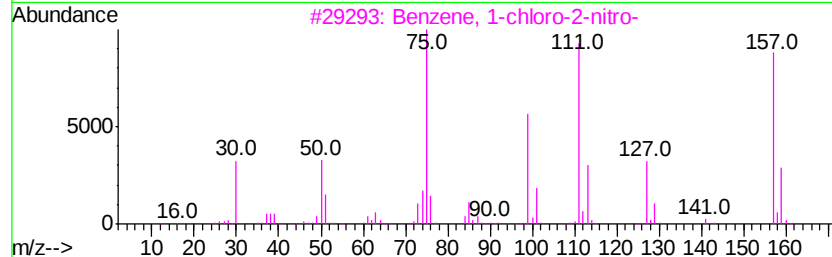
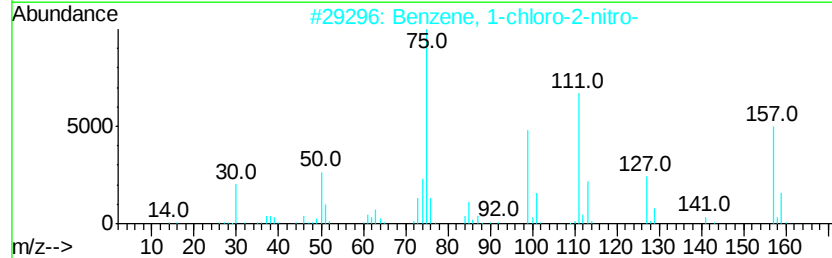
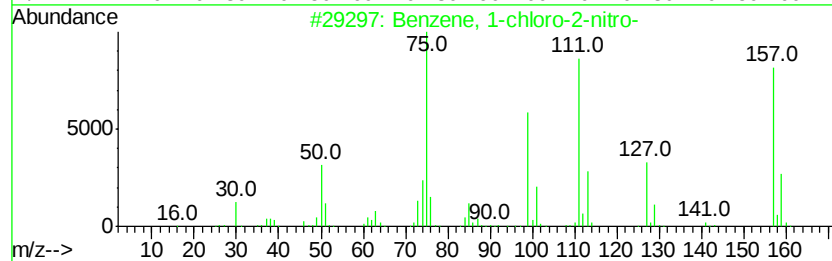
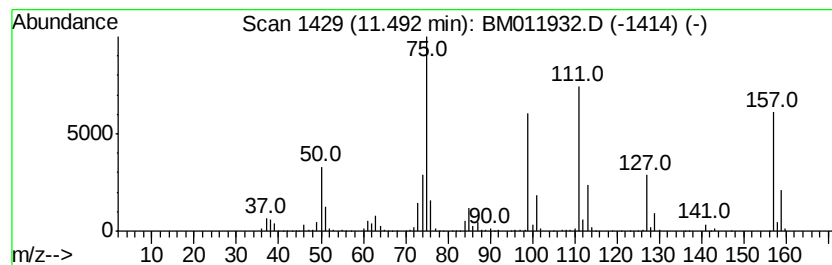
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Benzene, 1-chloro-2-nitro- Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.49 | 14.66 ng/ul | 1894860 | Naphthalene-d8   | 10.67 |

| Hit# | of | Tentative ID               | MW  | MolForm   | CAS#        | Qual |
|------|----|----------------------------|-----|-----------|-------------|------|
| 1    | 5  | Benzene, 1-chloro-2-nitro- | 157 | C6H4ClNO2 | 000088-73-3 | 98   |
| 2    |    | Benzene, 1-chloro-2-nitro- | 157 | C6H4ClNO2 | 000088-73-3 | 97   |
| 3    |    | Benzene, 1-chloro-2-nitro- | 157 | C6H4ClNO2 | 000088-73-3 | 96   |
| 4    |    | Benzene, 1-chloro-4-nitro- | 157 | C6H4ClNO2 | 000100-00-5 | 96   |
| 5    |    | Benzene, 1-chloro-2-nitro- | 157 | C6H4ClNO2 | 000088-73-3 | 95   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

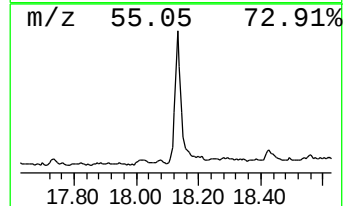
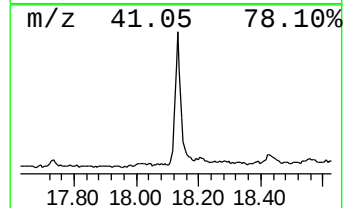
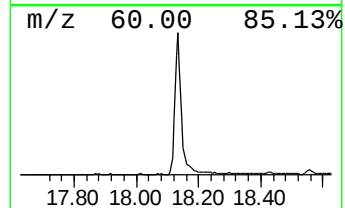
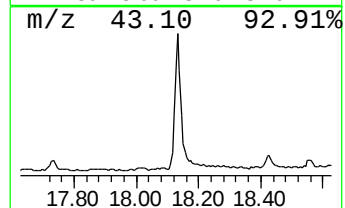
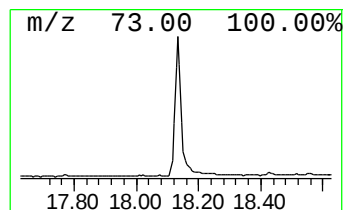
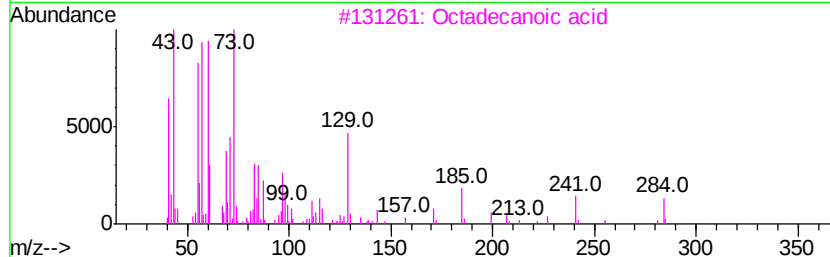
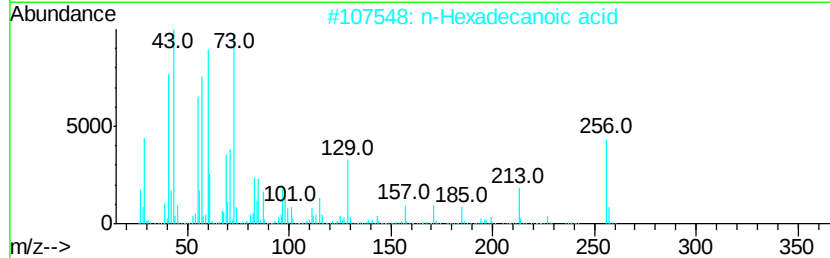
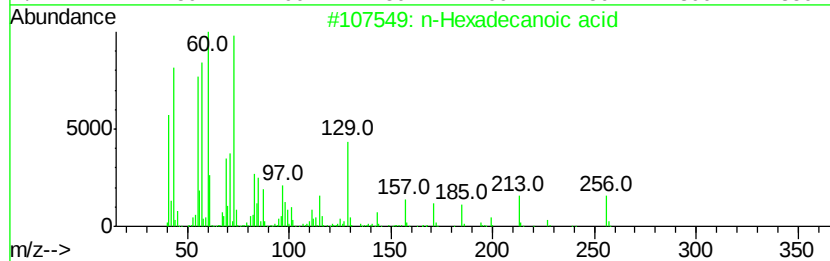
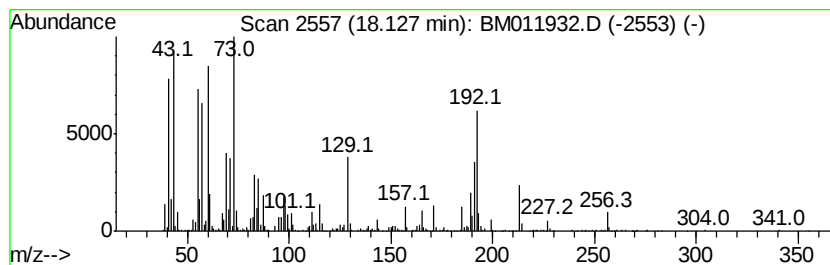
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 n-Hexadecanoic acid Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.13 | 13.49 ng/ul | 2006930 | Phenanthrene-d10 | 17.26 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 3    |    | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 92   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 86   |
| 5    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 86   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

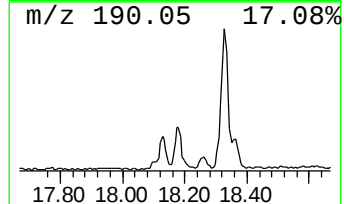
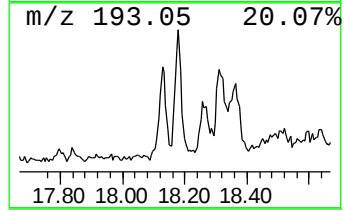
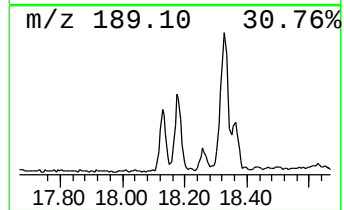
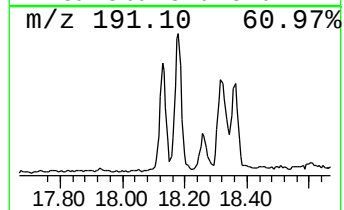
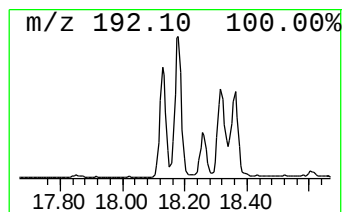
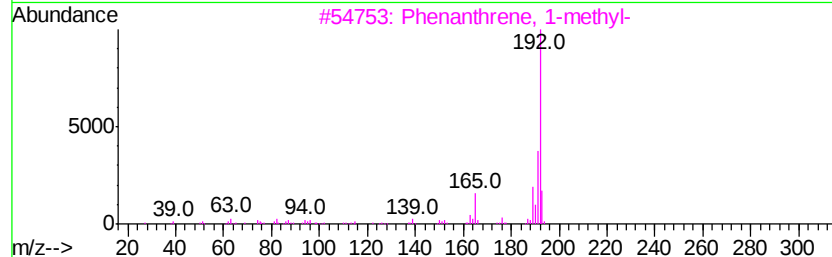
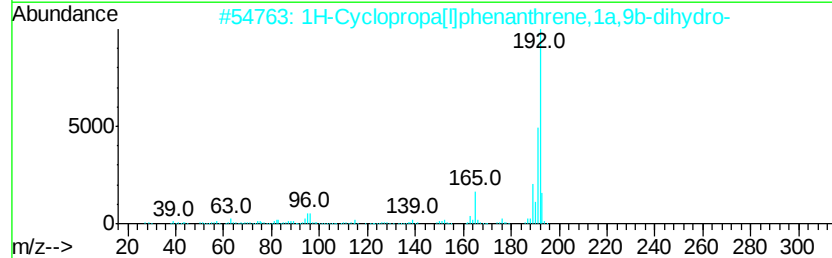
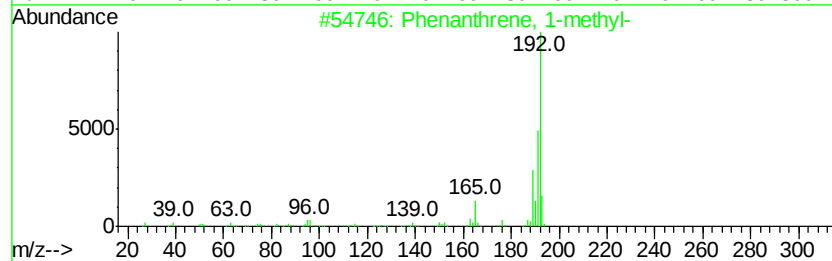
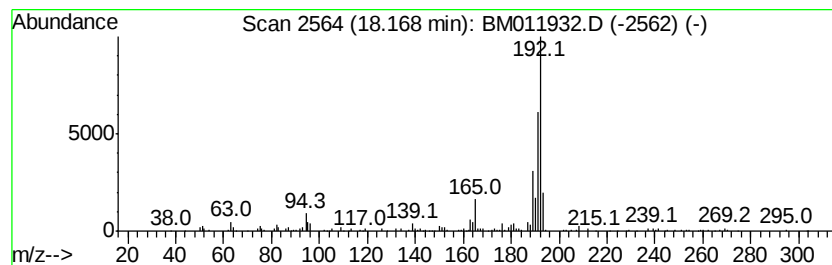
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ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 14

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|------------|-------------------------------------|------------------|---------|-------------|------|
| 18.17   | 2.49 ng/ul | 371157                              | Phenanthrene-d10 | 17.26   |             |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |            | Phenanthrene, 1-methyl-             | 192              | C15H12  | 000832-69-9 | 96   |
| 2       |            | 1H-Cyclopropa[1]phenanthrene,1a,... | 192              | C15H12  | 000949-41-7 | 95   |
| 3       |            | Phenanthrene, 1-methyl-             | 192              | C15H12  | 000832-69-9 | 94   |
| 4       |            | Phenanthrene, 2-methyl-             | 192              | C15H12  | 002531-84-2 | 94   |
| 5       |            | Anthracene, 2-methyl-               | 192              | C15H12  | 000613-12-7 | 94   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

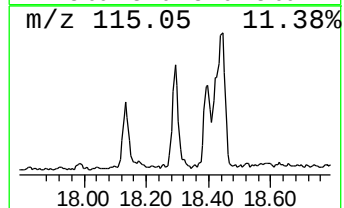
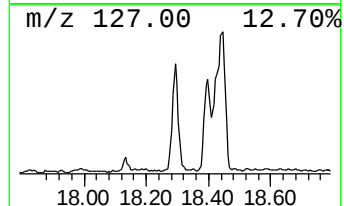
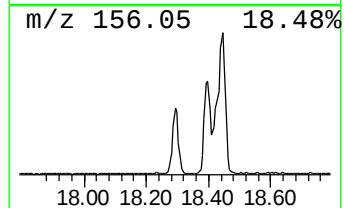
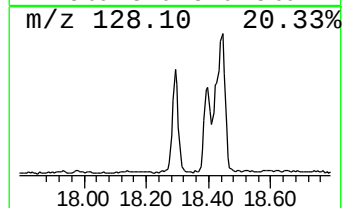
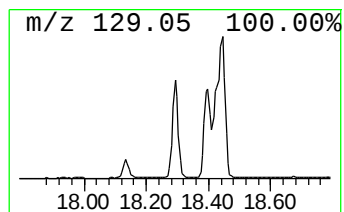
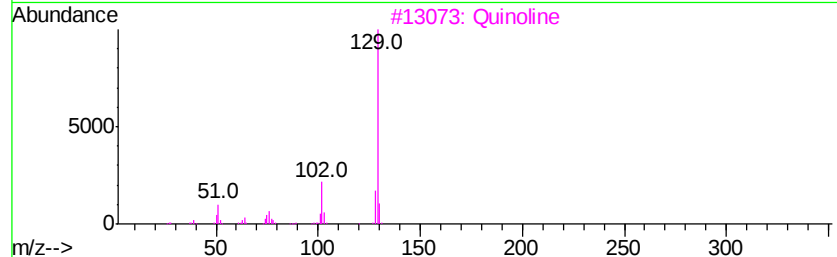
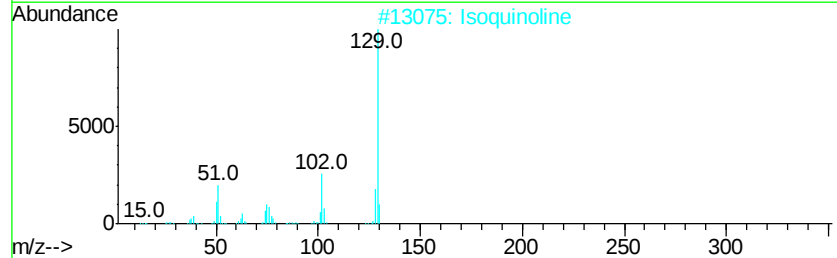
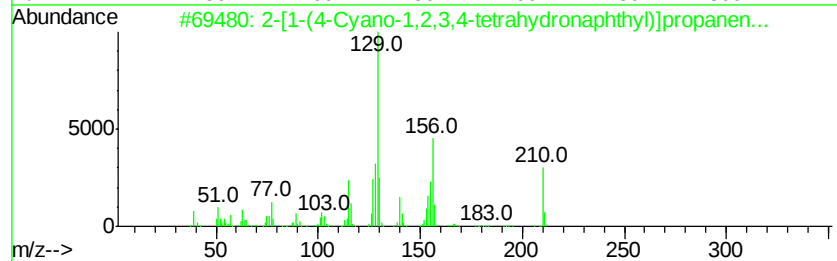
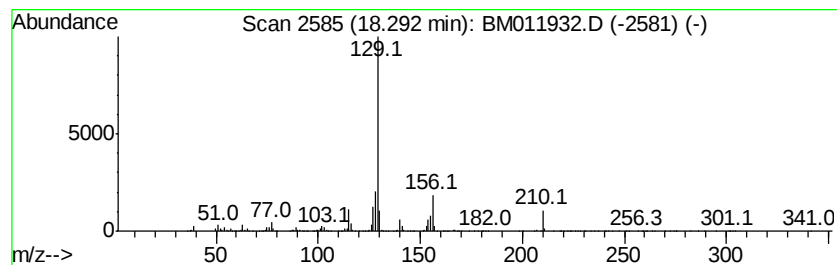
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ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 2-[1-(4-Cyano-1,2,3,4-tetra... Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.29     | 6.49 ng/ul                          | 965229 | Phenanthrene-d10 | 17.26       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 2-[1-(4-Cyano-1,2,3,4-tetrahydro... | 210    | C14H14N2         | 057964-39-3 | 70   |
| 2         | Isoquinoline                        | 129    | C9H7N            | 000119-65-3 | 42   |
| 3         | Quinoline                           | 129    | C9H7N            | 000091-22-5 | 40   |
| 4         | Isoquinoline                        | 129    | C9H7N            | 000119-65-3 | 40   |
| 5         | 3-[1-(4-Cyano-1,2,3,4-tetrahydro... | 210    | C14H14N2         | 057964-40-6 | 38   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

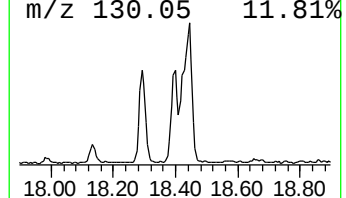
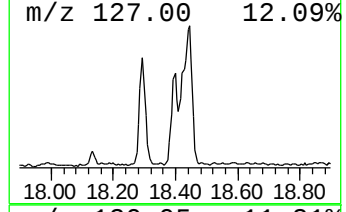
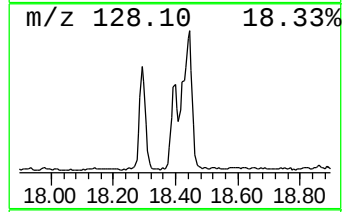
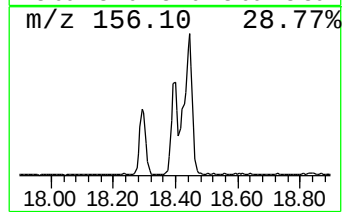
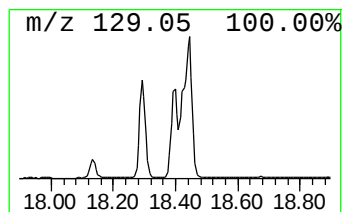
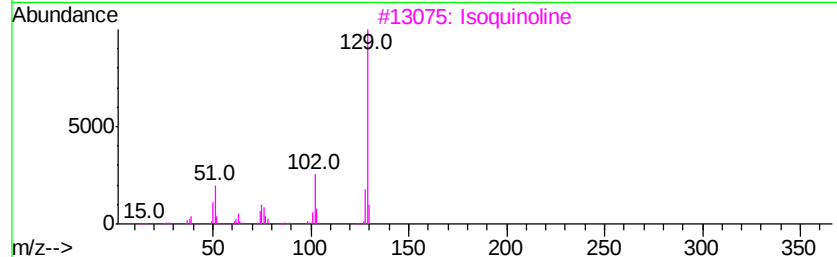
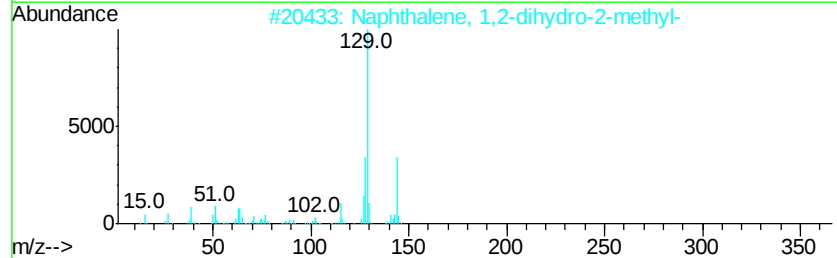
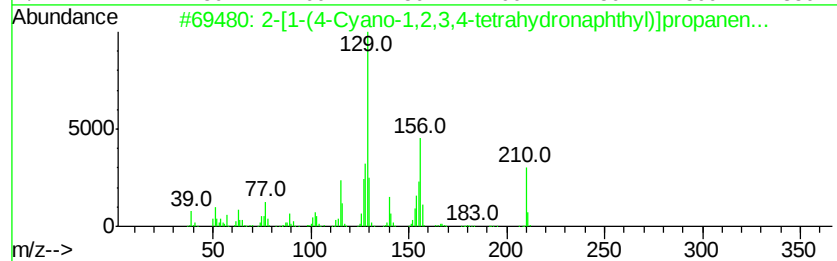
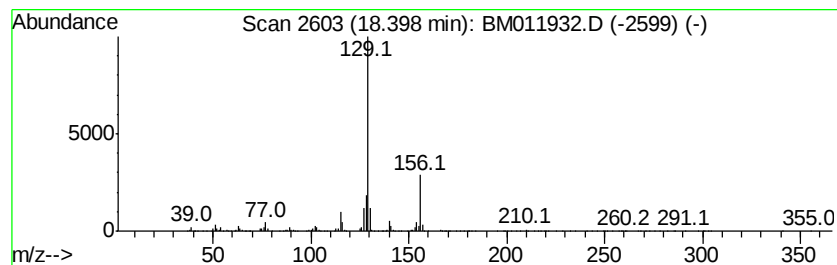
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown-01 Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.40 | 4.54 ng/ul | 675920 | Phenanthrene-d10 | 17.26 |

| Hit# | of | 5                                  | Tentative ID | MW       | MolForm     | CAS# | Qual |
|------|----|------------------------------------|--------------|----------|-------------|------|------|
| 1    | 2  | -[1-(4-Cyano-1,2,3,4-tetrahydro... | 210          | C14H14N2 | 057964-39-3 | 43   |      |
| 2    |    | Naphthalene, 1,2-dihydro-2-methyl- | 144          | C11H12   | 021564-79-4 | 40   |      |
| 3    |    | Isoquinoline                       | 129          | C9H7N    | 000119-65-3 | 40   |      |
| 4    |    | Isoquinoline                       | 129          | C9H7N    | 000119-65-3 | 38   |      |
| 5    | 3  | -[1-(4-Cyano-1,2,3,4-tetrahydro... | 210          | C14H14N2 | 057964-40-6 | 38   |      |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

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Quant Title : SVOA CALIBRATION

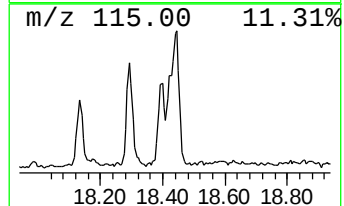
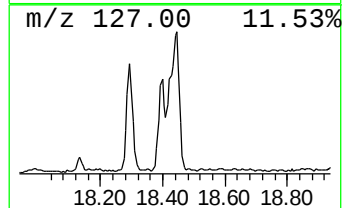
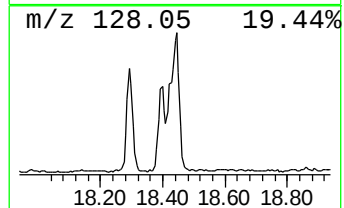
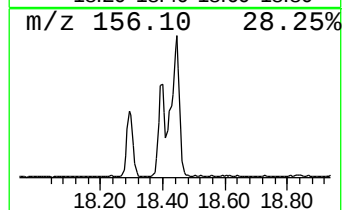
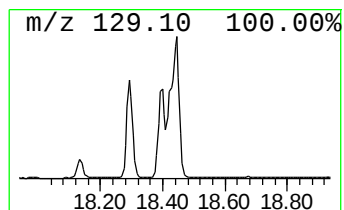
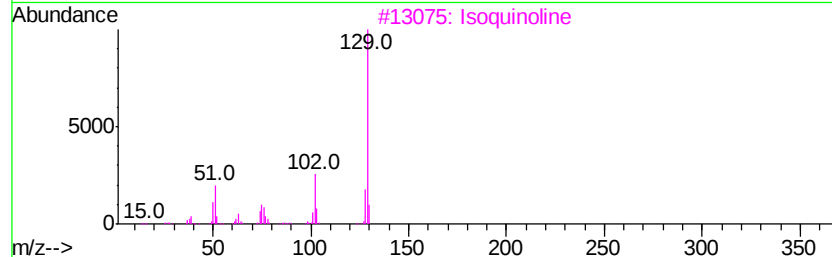
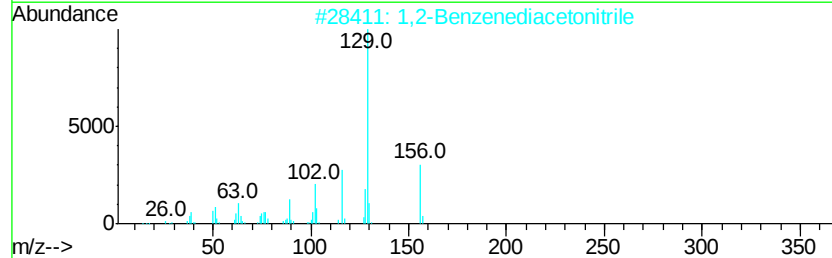
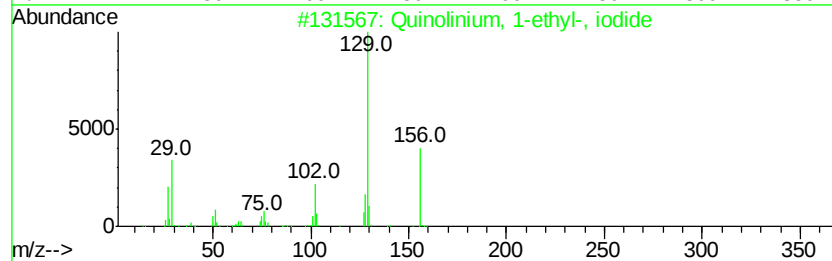
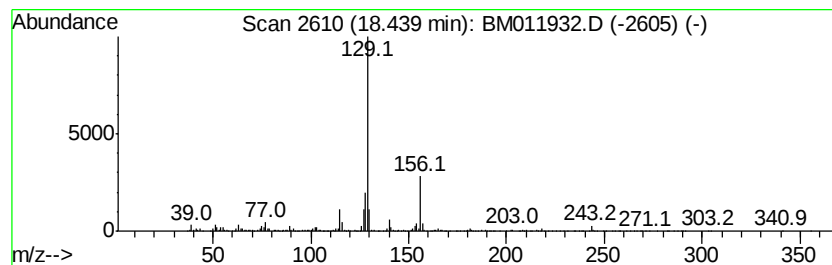
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Quinolinium, 1-ethyl-, iodide Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.44 | 11.69 ng/ul | 1739110 | Phenanthrene-d10 | 17.26 |

| Hit# | of | Tentative ID                      | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------------|-----|----------|-------------|------|
| 1    | 5  | Quinolinium, 1-ethyl-, iodide     | 285 | C11H12IN | 000634-35-5 | 64   |
| 2    |    | 1,2-Benzenediacetonitrile         | 156 | C10H8N2  | 000613-73-0 | 59   |
| 3    |    | Isoquinoline                      | 129 | C9H7N    | 000119-65-3 | 52   |
| 4    |    | 2-Propenenitrile, 3-phenyl-, (E)- | 129 | C9H7N    | 001885-38-7 | 50   |
| 5    |    | Quinolinium, 1-ethyl-, iodide     | 285 | C11H12IN | 000634-35-5 | 50   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
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Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

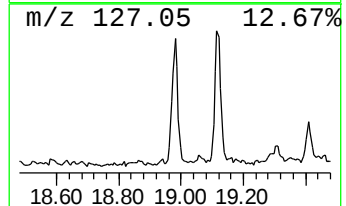
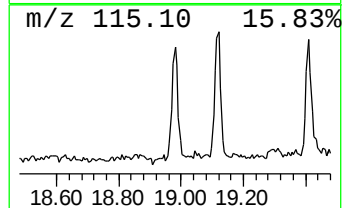
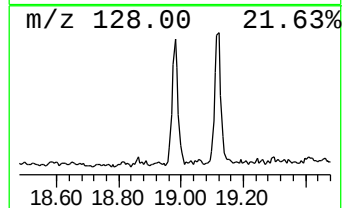
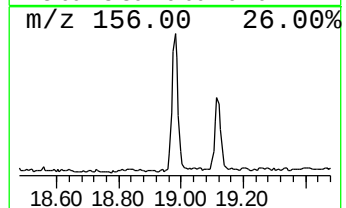
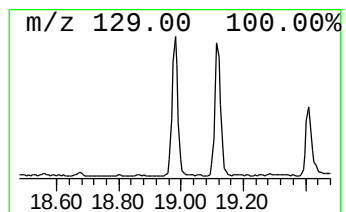
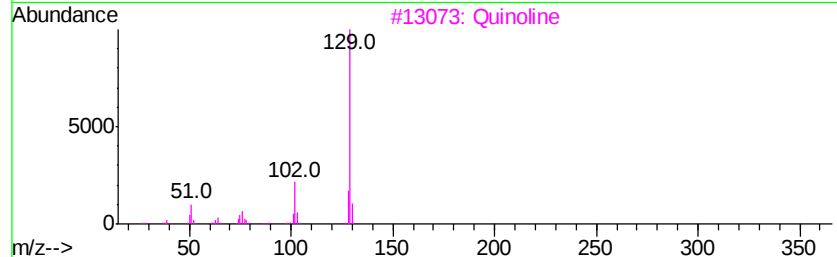
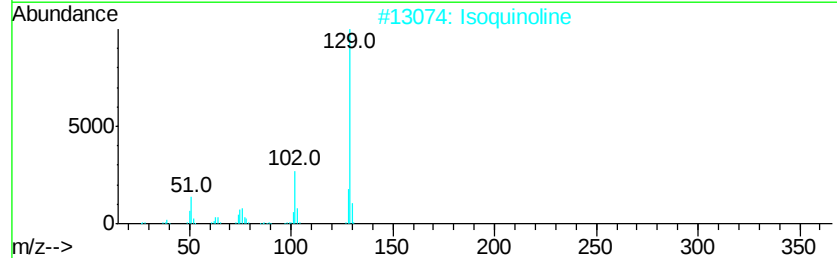
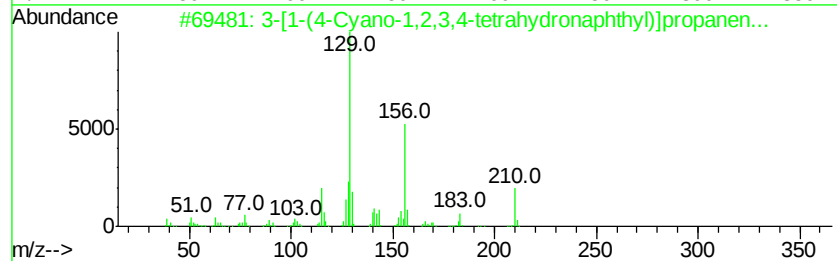
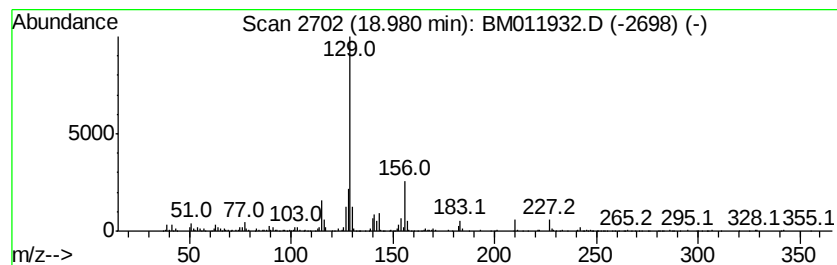
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 3-[1-(4-Cyano-1,2,3,4-tetra... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.98 | 3.66 ng/ul | 544888 | Phenanthrene-d10 | 17.26 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 3-[1-(4-Cyano-1,2,3,4-tetrahydro... | 210 | C14H14N2 | 057964-40-6 | 97   |
| 2    |    |   | Isoquinoline                        | 129 | C9H7N    | 000119-65-3 | 52   |
| 3    |    |   | Quinoline                           | 129 | C9H7N    | 000091-22-5 | 52   |
| 4    |    |   | Quinoline                           | 129 | C9H7N    | 000091-22-5 | 50   |
| 5    |    |   | 2-Propenenitrile, 3-phenyl-, (E)-   | 129 | C9H7N    | 001885-38-7 | 50   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

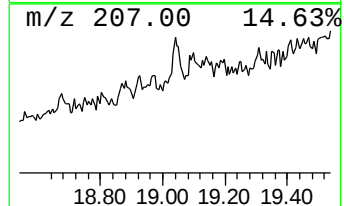
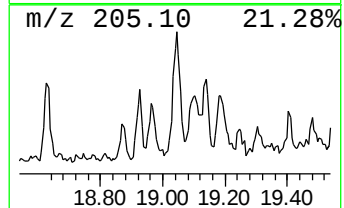
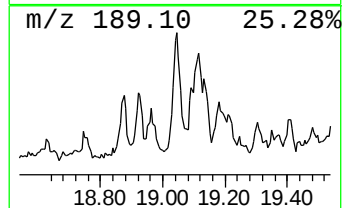
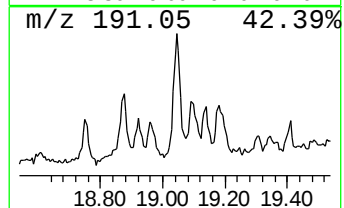
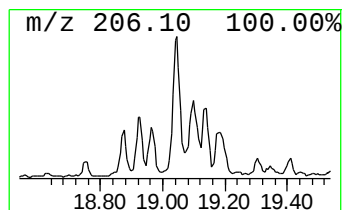
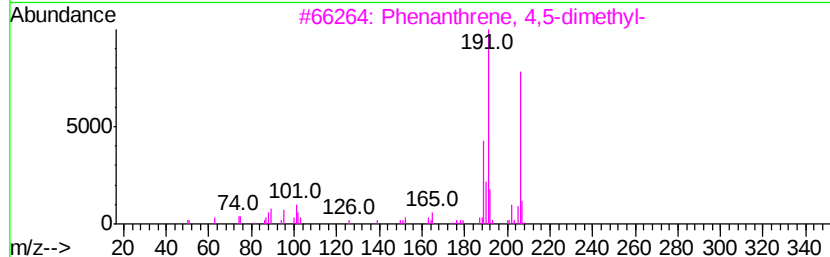
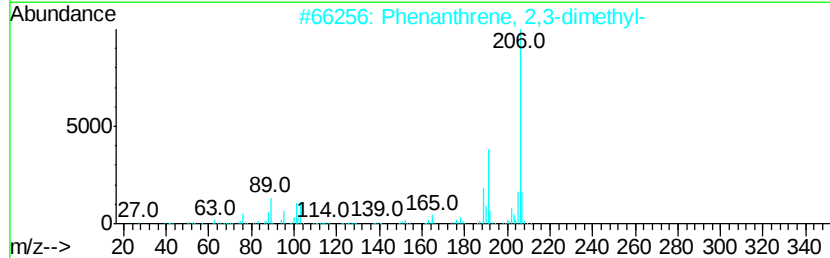
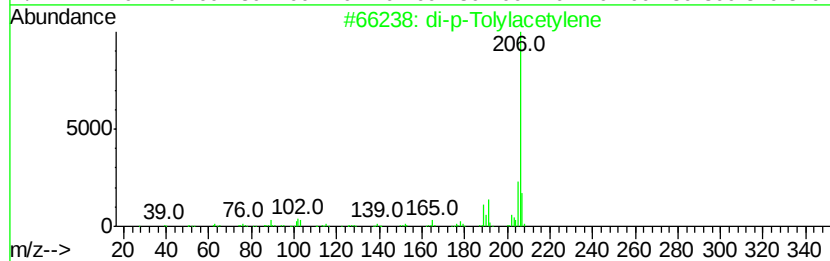
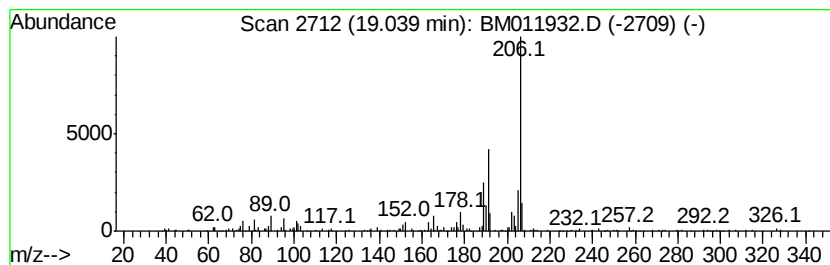
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 di-p-Tolylacetylene Concentration Rank 15

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.04 | 2.19 ng/ul | 325778 | Phenanthrene-d10 | 17.26 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | di-p-Tolylacetylene           | 206 | C16H14  | 002789-88-0 | 91   |
| 2    |    |   | Phenanthrene, 2,3-dimethyl-   | 206 | C16H14  | 003674-65-5 | 81   |
| 3    |    |   | Phenanthrene, 4,5-dimethyl-   | 206 | C16H14  | 003674-69-9 | 74   |
| 4    |    |   | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14  | 035099-60-6 | 74   |
| 5    |    |   | 9,10-Dimethylantracene        | 206 | C16H14  | 000781-43-1 | 72   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

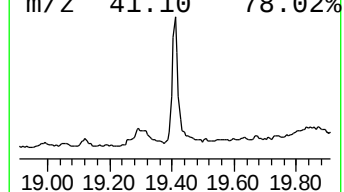
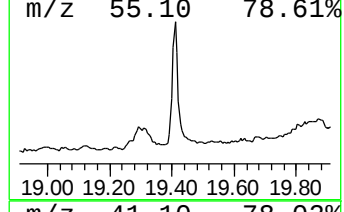
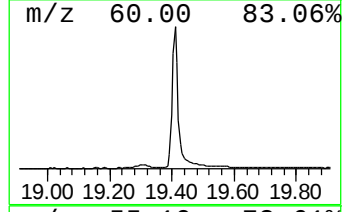
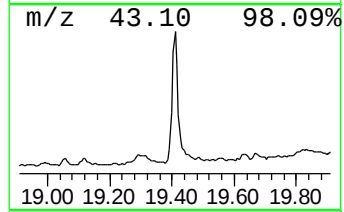
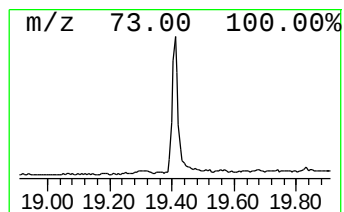
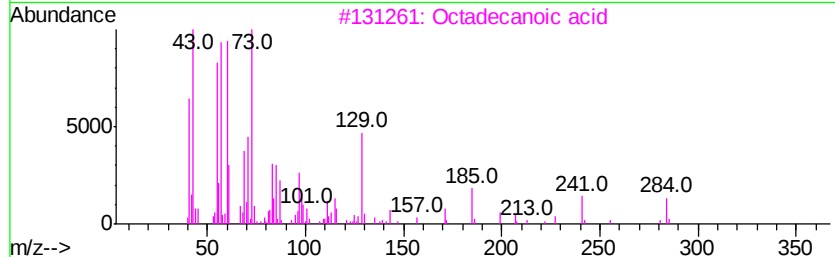
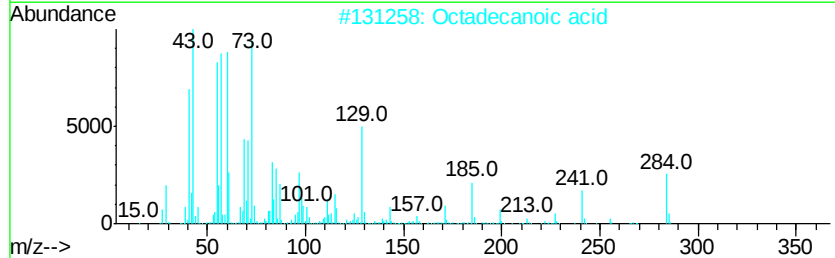
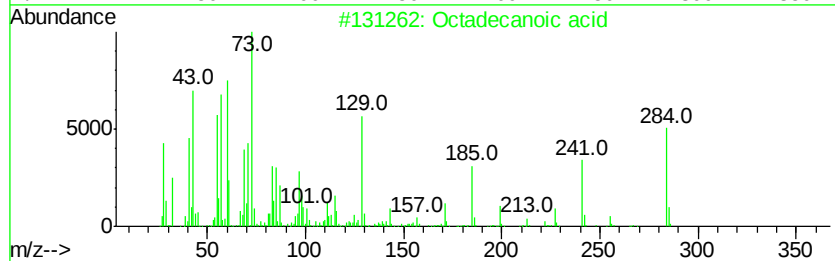
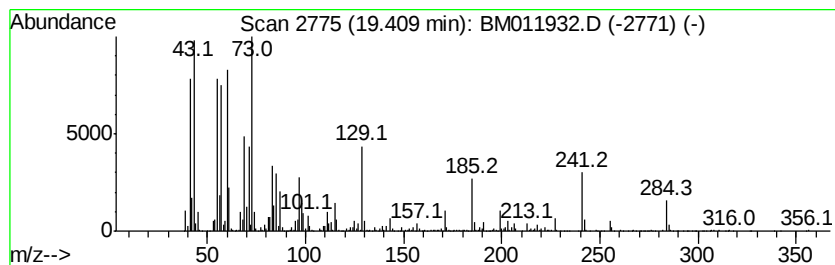
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.41 | 9.66 ng/ul | 2305980 | Chrysene-d12     | 21.43 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 3    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 4    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 98   |
| 5    |    |   | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

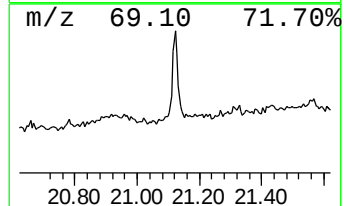
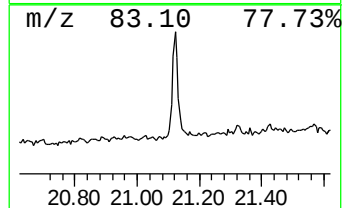
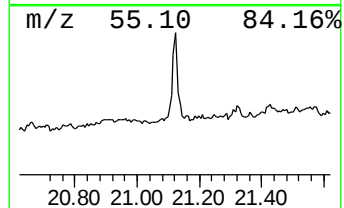
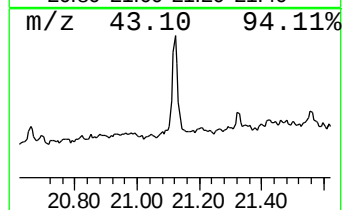
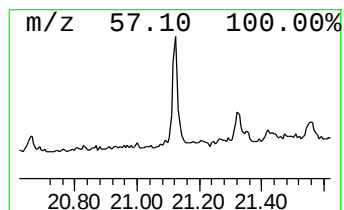
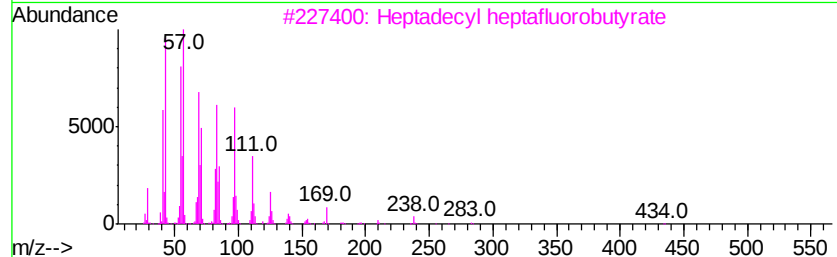
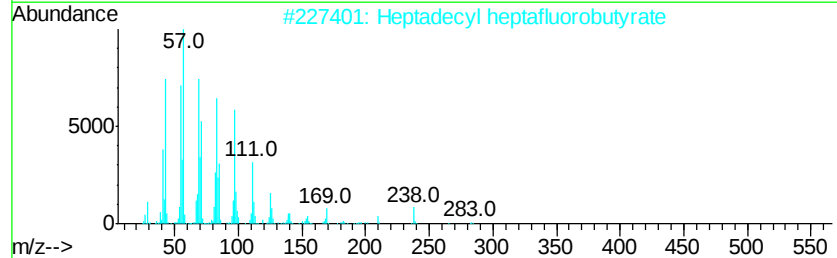
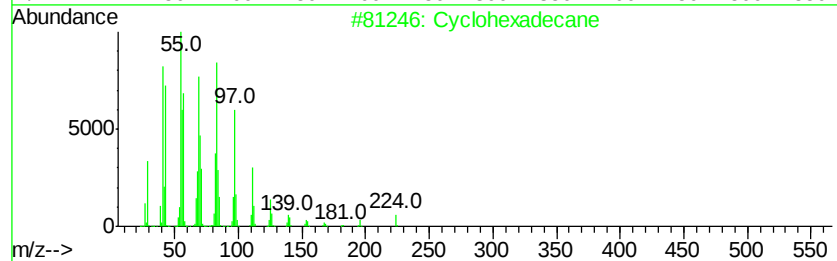
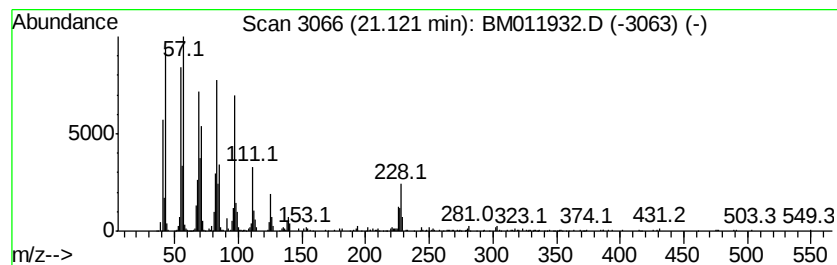
Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.           |
|---------|------------|-------------------------------------|------------------|----------------|
| 21.12   | 2.85 ng/ul | 679253                              | Chrysene-d12     | 21.43          |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |            | Cyclohexadecane                     | 224 C16H32       | 000295-65-8 94 |
| 2       |            | Heptadecyl heptafluorobutyrate      | 452 C21H35F7O2   | 959085-66-6 93 |
| 3       |            | Heptadecyl heptafluorobutyrate      | 452 C21H35F7O2   | 959085-66-6 93 |
| 4       |            | Heptafluorobutyric acid, pentade... | 424 C19H31F7O2   | 959261-23-5 91 |
| 5       |            | Pentafluoropropionic acid, penta... | 374 C18H31F5O2   | 959092-08-1 90 |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM100517\  
Data File : BM011932.D  
Acq On : 05 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I5449-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-60(5-7)-092617

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: Str... | 7.47  | 2.8     | ng/ul | 263424   | 1                     | 7.87  | 1894680 | 20.0 |
| Mesitylene           | 7.51  | 2.9     | ng/ul | 270231   | 1                     | 7.87  | 1894680 | 20.0 |
| Benzene, 1-chloro... | 11.49 | 14.7    | ng/ul | 1894860  | 2                     | 10.67 | 2584310 | 20.0 |
| n-Hexadecanoic acid  | 18.13 | 13.5    | ng/ul | 2006930  | 4                     | 17.26 | 2976220 | 20.0 |
| Phenanthrene, 1-m... | 18.17 | 2.5     | ng/ul | 371157   | 4                     | 17.26 | 2976220 | 20.0 |
| 2-[1-(4-Cyano-1,2... | 18.29 | 6.5     | ng/ul | 965229   | 4                     | 17.26 | 2976220 | 20.0 |
| unknown-01           | 18.40 | 4.5     | ng/ul | 675920   | 4                     | 17.26 | 2976220 | 20.0 |
| Quinolinium, 1-et... | 18.44 | 11.7    | ng/ul | 1739110  | 4                     | 17.26 | 2976220 | 20.0 |
| 3-[1-(4-Cyano-1,2... | 18.98 | 3.7     | ng/ul | 544888   | 4                     | 17.26 | 2976220 | 20.0 |
| di-p-Tolylacetylene  | 19.04 | 2.2     | ng/ul | 325778   | 4                     | 17.26 | 2976220 | 20.0 |
| Octadecanoic acid    | 19.41 | 9.7     | ng/ul | 2305980  | 5                     | 21.43 | 4774090 | 20.0 |
| (DEL) Alkane: Str... | 21.12 | 2.9     | ng/ul | 679253   | 5                     | 21.43 | 4774090 | 20.0 |