

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM052119\  
 Data File : BM020466.D  
 Acq On : 21 May 2019 18:54  
 Operator : JU/SJ  
 Sample : K2923-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4249

## 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\_M\METHODS\SOM-EPA-BM051619MA.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         | 6.893       | 659           | 664         | 673          | rVB      | 102962         | 178075        | 15.11%          | 1.664%        |
| 2         | 7.069       | 688           | 694         | 704          | rBV      | 74404          | 138453        | 11.75%          | 1.293%        |
| 3         | 7.251       | 720           | 725         | 732          | rVB      | 113719         | 184780        | 15.68%          | 1.726%        |
| 4         | 7.722       | 800           | 805         | 813          | rBV      | 198712         | 312253        | 26.50%          | 2.917%        |
| 5         | 8.428       | 920           | 925         | 936          | rVB      | 95606          | 166719        | 14.15%          | 1.558%        |
| 6         | 8.892       | 999           | 1004        | 1017         | rVB      | 86911          | 160683        | 13.64%          | 1.501%        |
| 7         | 9.228       | 1058          | 1061        | 1064         | rBV2     | 4138           | 6013          | 0.51%           | 0.056%        |
| 8         | 9.610       | 1120          | 1126        | 1134         | rBV      | 69794          | 124401        | 10.56%          | 1.162%        |
| 9         | 10.139      | 1210          | 1216        | 1225         | rBV      | 101868         | 190215        | 16.15%          | 1.777%        |
| 10        | 10.516      | 1273          | 1280        | 1286         | rBV      | 232974         | 391504        | 33.23%          | 3.658%        |
| 11        | 10.669      | 1300          | 1306        | 1319         | rBV      | 50444          | 108470        | 9.21%           | 1.013%        |
| 12        | 11.510      | 1447          | 1449        | 1453         | rVB      | 1084           | 1201          | 0.10%           | 0.011%        |
| 13        | 12.116      | 1549          | 1552        | 1555         | rBV3     | 1267           | 1570          | 0.13%           | 0.015%        |
| 14        | 12.192      | 1560          | 1565        | 1569         | rVB3     | 2138           | 3940          | 0.33%           | 0.037%        |
| 15        | 12.410      | 1598          | 1602        | 1607         | rBV2     | 1877           | 2583          | 0.22%           | 0.024%        |
| 16        | 13.063      | 1712          | 1713        | 1717         | rBV2     | 1086           | 1238          | 0.11%           | 0.012%        |
| 17        | 13.639      | 1808          | 1811        | 1817         | rBV2     | 765            | 1581          | 0.13%           | 0.015%        |
| 18        | 13.739      | 1825          | 1828        | 1831         | rVV3     | 741            | 1265          | 0.11%           | 0.012%        |
| 19        | 13.786      | 1831          | 1836        | 1840         | rVV      | 205946         | 281963        | 23.93%          | 2.634%        |
| 20        | 13.833      | 1840          | 1844        | 1853         | rVB      | 72632          | 103941        | 8.82%           | 0.971%        |
| 21        | 14.069      | 1878          | 1884        | 1898         | rVB      | 231412         | 353261        | 29.98%          | 3.300%        |
| 22        | 14.257      | 1909          | 1916        | 1920         | rBV4     | 5196           | 11611         | 0.99%           | 0.108%        |
| 23        | 14.286      | 1920          | 1921        | 1926         | rVB      | 1449           | 1448          | 0.12%           | 0.014%        |
| 24        | 14.374      | 1930          | 1936        | 1944         | rBV2     | 330909         | 501756        | 42.59%          | 4.688%        |
| 25        | 14.604      | 1969          | 1975        | 1990         | rBV3     | 18385          | 52561         | 4.46%           | 0.491%        |
| 26        | 14.704      | 1990          | 1992        | 1995         | rVB2     | 1425           | 1305          | 0.11%           | 0.012%        |
| 27        | 14.786      | 2002          | 2006        | 2011         | rVB2     | 4552           | 6870          | 0.58%           | 0.064%        |
| 28        | 15.151      | 2064          | 2068        | 2069         | rBV2     | 1209           | 1553          | 0.13%           | 0.015%        |
| 29        | 15.204      | 2073          | 2077        | 2080         | rBV2     | 1180           | 1601          | 0.14%           | 0.015%        |
| 30        | 15.369      | 2100          | 2105        | 2114         | rBV      | 277457         | 416040        | 35.31%          | 3.887%        |
| 31        | 15.510      | 2125          | 2129        | 2139         | rVV2     | 49388          | 70676         | 6.00%           | 0.660%        |
| 32        | 15.610      | 2143          | 2146        | 2149         | rVB2     | 2011           | 2602          | 0.22%           | 0.024%        |
| 33        | 15.721      | 2160          | 2165        | 2169         | rVB3     | 2284           | 3090          | 0.26%           | 0.029%        |
| 34        | 15.868      | 2185          | 2190        | 2199         | rVB3     | 2407           | 5812          | 0.49%           | 0.054%        |

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 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 16.086 | 2222 | 2227 | 2231 | rBV2 | 1411   | 2276   | 0.19%  | 0.021% |
| 36 | 16.374 | 2274 | 2276 | 2282 | rVB3 | 997    | 1258   | 0.11%  | 0.012% |
| 37 | 16.657 | 2321 | 2324 | 2326 | rBV  | 1562   | 1487   | 0.13%  | 0.014% |
| 38 | 16.704 | 2326 | 2332 | 2335 | rVB3 | 1574   | 2215   | 0.19%  | 0.021% |
| 39 | 16.792 | 2342 | 2347 | 2351 | rBV  | 4465   | 5239   | 0.44%  | 0.049% |
| 40 | 16.845 | 2354 | 2356 | 2358 | rVV2 | 2138   | 2006   | 0.17%  | 0.019% |
| 41 | 16.863 | 2358 | 2359 | 2362 | rVB  | 2594   | 2071   | 0.18%  | 0.019% |
| 42 | 16.910 | 2362 | 2367 | 2368 | rBV2 | 1145   | 1576   | 0.13%  | 0.015% |
| 43 | 16.945 | 2370 | 2373 | 2378 | rVB3 | 2283   | 3768   | 0.32%  | 0.035% |
| 44 | 17.127 | 2398 | 2404 | 2408 | rBV  | 449303 | 614928 | 52.19% | 5.745% |
| 45 | 17.168 | 2408 | 2411 | 2416 | rVV  | 112998 | 157304 | 13.35% | 1.470% |
| 46 | 17.227 | 2416 | 2421 | 2436 | rVV  | 314655 | 474404 | 40.27% | 4.432% |
| 47 | 17.339 | 2439 | 2440 | 2446 | rVV3 | 1367   | 1985   | 0.17%  | 0.019% |
| 48 | 17.404 | 2450 | 2451 | 2454 | rVB2 | 1870   | 1579   | 0.13%  | 0.015% |
| 49 | 17.451 | 2456 | 2459 | 2461 | rVV  | 1447   | 1428   | 0.12%  | 0.013% |
| 50 | 17.492 | 2464 | 2466 | 2470 | rBV2 | 1424   | 2150   | 0.18%  | 0.020% |
| 51 | 17.551 | 2470 | 2476 | 2481 | rBV6 | 4988   | 10426  | 0.88%  | 0.097% |
| 52 | 17.604 | 2481 | 2485 | 2489 | rVV6 | 2815   | 3869   | 0.33%  | 0.036% |
| 53 | 17.645 | 2489 | 2492 | 2497 | rVV3 | 3977   | 5173   | 0.44%  | 0.048% |
| 54 | 17.710 | 2499 | 2503 | 2504 | rBV  | 2322   | 2448   | 0.21%  | 0.023% |
| 55 | 17.721 | 2504 | 2505 | 2507 | rVV  | 1852   | 1250   | 0.11%  | 0.012% |
| 56 | 17.898 | 2534 | 2535 | 2538 | rBV  | 1586   | 1218   | 0.10%  | 0.011% |
| 57 | 17.933 | 2538 | 2541 | 2542 | rBV2 | 2217   | 2320   | 0.20%  | 0.022% |
| 58 | 17.945 | 2542 | 2543 | 2545 | rBV2 | 1583   | 1492   | 0.13%  | 0.014% |
| 59 | 18.004 | 2549 | 2553 | 2558 | rBV2 | 47179  | 69231  | 5.88%  | 0.647% |
| 60 | 18.051 | 2558 | 2561 | 2566 | rVB2 | 19354  | 26625  | 2.26%  | 0.249% |
| 61 | 18.139 | 2572 | 2576 | 2580 | rVB5 | 4609   | 6989   | 0.59%  | 0.065% |
| 62 | 18.198 | 2580 | 2586 | 2590 | rBV2 | 17092  | 33097  | 2.81%  | 0.309% |
| 63 | 18.239 | 2590 | 2593 | 2596 | rVB4 | 7514   | 9707   | 0.82%  | 0.091% |
| 64 | 18.304 | 2601 | 2604 | 2605 | rBV3 | 3547   | 2730   | 0.23%  | 0.026% |
| 65 | 18.398 | 2618 | 2620 | 2625 | rVB4 | 1307   | 1835   | 0.16%  | 0.017% |
| 66 | 18.509 | 2635 | 2639 | 2644 | rBV3 | 8515   | 14059  | 1.19%  | 0.131% |
| 67 | 18.562 | 2644 | 2648 | 2655 | rVB2 | 15923  | 23744  | 2.02%  | 0.222% |
| 68 | 18.621 | 2655 | 2658 | 2660 | rBV3 | 2365   | 2221   | 0.19%  | 0.021% |
| 69 | 18.745 | 2677 | 2679 | 2684 | rBV4 | 3218   | 3559   | 0.30%  | 0.033% |
| 70 | 18.804 | 2686 | 2689 | 2693 | rBV3 | 3755   | 5329   | 0.45%  | 0.050% |
| 71 | 18.845 | 2693 | 2696 | 2699 | rVB4 | 3236   | 4328   | 0.37%  | 0.040% |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 72 | 18.921 | 2705 | 2709 | 2714 | rBV5 | 9684   | 18562   | 1.58%   | 0.173%  |
| 73 | 19.015 | 2723 | 2725 | 2729 | rVB  | 5631   | 4882    | 0.41%   | 0.046%  |
| 74 | 19.074 | 2729 | 2735 | 2741 | rVB3 | 16824  | 28294   | 2.40%   | 0.264%  |
| 75 | 19.115 | 2741 | 2742 | 2743 | rBV  | 2308   | 1490    | 0.13%   | 0.014%  |
| 76 | 19.192 | 2749 | 2755 | 2763 | rVB  | 316875 | 437156  | 37.11%  | 4.084%  |
| 77 | 19.251 | 2763 | 2765 | 2768 | rVB4 | 4398   | 3847    | 0.33%   | 0.036%  |
| 78 | 19.298 | 2768 | 2773 | 2777 | rBV5 | 19088  | 29355   | 2.49%   | 0.274%  |
| 79 | 19.345 | 2777 | 2781 | 2786 | rVV  | 17136  | 22799   | 1.94%   | 0.213%  |
| 80 | 19.433 | 2794 | 2796 | 2799 | rVB3 | 4069   | 4179    | 0.35%   | 0.039%  |
| 81 | 19.527 | 2806 | 2812 | 2815 | rBV  | 496924 | 737433  | 62.59%  | 6.889%  |
| 82 | 19.556 | 2815 | 2817 | 2825 | rVV  | 303376 | 347064  | 29.46%  | 3.242%  |
| 83 | 19.627 | 2825 | 2829 | 2835 | rVB2 | 15946  | 27906   | 2.37%   | 0.261%  |
| 84 | 19.739 | 2845 | 2848 | 2852 | rVB  | 13575  | 15603   | 1.32%   | 0.146%  |
| 85 | 19.880 | 2867 | 2872 | 2873 | rBV3 | 19395  | 27636   | 2.35%   | 0.258%  |
| 86 | 20.056 | 2891 | 2902 | 2906 | rBV4 | 24736  | 71180   | 6.04%   | 0.665%  |
| 87 | 20.156 | 2916 | 2919 | 2921 | rBV2 | 9777   | 12409   | 1.05%   | 0.116%  |
| 88 | 20.203 | 2923 | 2927 | 2932 | rVV4 | 23597  | 45213   | 3.84%   | 0.422%  |
| 89 | 20.245 | 2932 | 2934 | 2937 | rVV4 | 8197   | 8369    | 0.71%   | 0.078%  |
| 90 | 20.351 | 2950 | 2952 | 2956 | rBV3 | 9959   | 10659   | 0.90%   | 0.100%  |
| 91 | 20.803 | 3025 | 3029 | 3035 | rBV  | 43503  | 65644   | 5.57%   | 0.613%  |
| 92 | 20.962 | 3054 | 3056 | 3060 | rBV4 | 19077  | 21749   | 1.85%   | 0.203%  |
| 93 | 21.015 | 3061 | 3065 | 3068 | rBV3 | 80934  | 121425  | 10.31%  | 1.134%  |
| 94 | 21.321 | 3110 | 3117 | 3121 | rBV2 | 765708 | 1178147 | 100.00% | 11.007% |
| 95 | 21.356 | 3121 | 3123 | 3128 | rVB  | 164900 | 203565  | 17.28%  | 1.902%  |
| 96 | 22.909 | 3382 | 3387 | 3392 | rBV2 | 161777 | 366917  | 31.14%  | 3.428%  |
| 97 | 23.444 | 3473 | 3478 | 3483 | rBV  | 370297 | 651238  | 55.28%  | 6.084%  |
| 98 | 23.597 | 3497 | 3504 | 3510 | rBV  | 479859 | 942672  | 80.01%  | 8.807%  |

Sum of corrected areas: 10703751



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ALS Vial : 5 Sample Multiplier: 1

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A4249

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

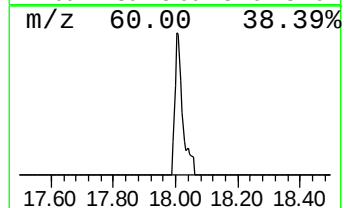
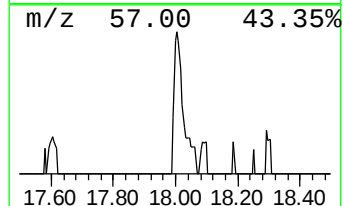
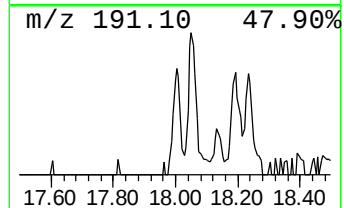
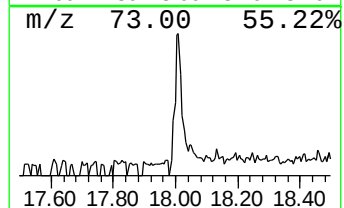
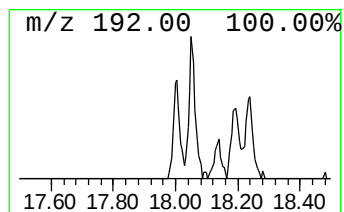
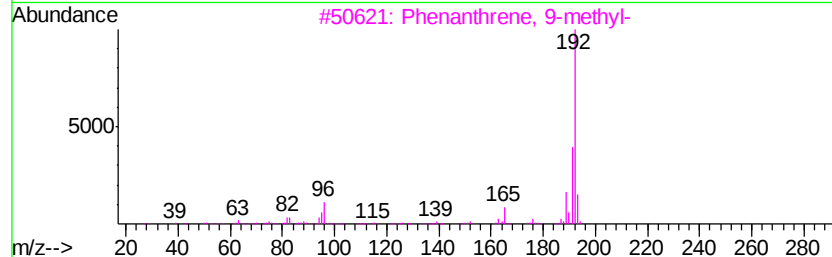
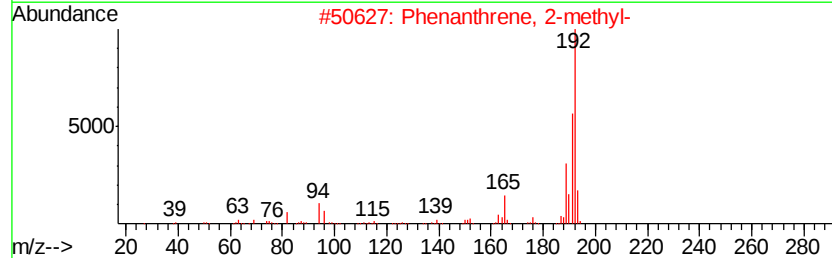
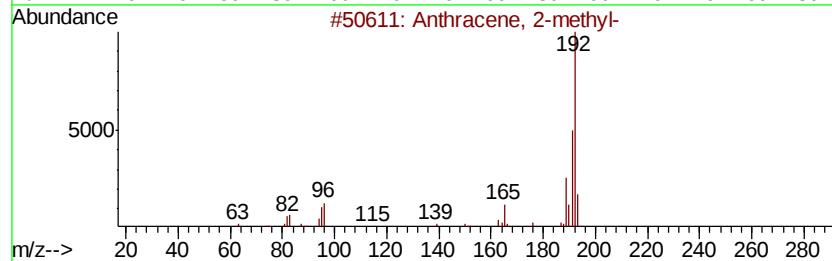
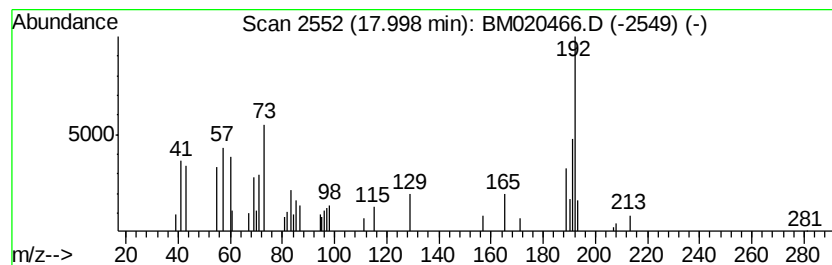
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 1

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 18.00 | 2.25 ng/ul | 69231 | Phenanthrene-d10 | 17.13 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 38   |
| 2    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 30   |
| 3    |    | Phenanthrene, 9-methyl- | 192 | C15H12  | 000883-20-5 | 30   |
| 4    |    | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 30   |
| 5    |    | 1H-Indene, 1-phenyl-    | 192 | C15H12  | 001961-96-2 | 27   |



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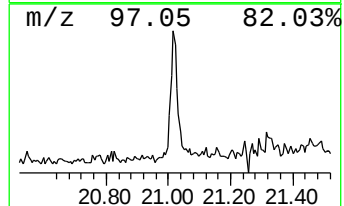
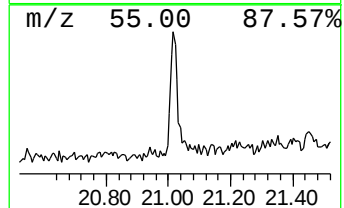
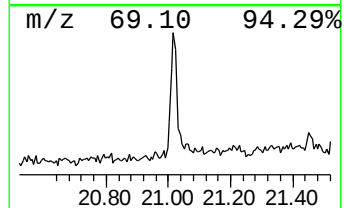
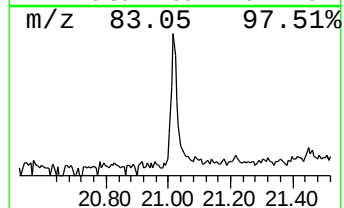
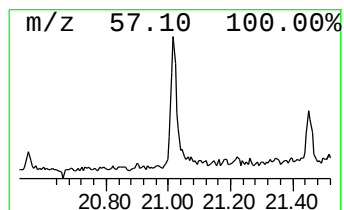
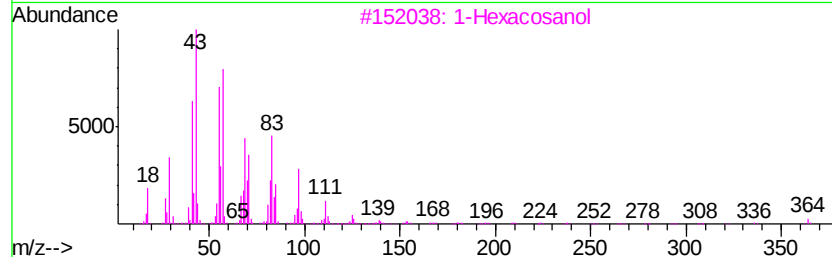
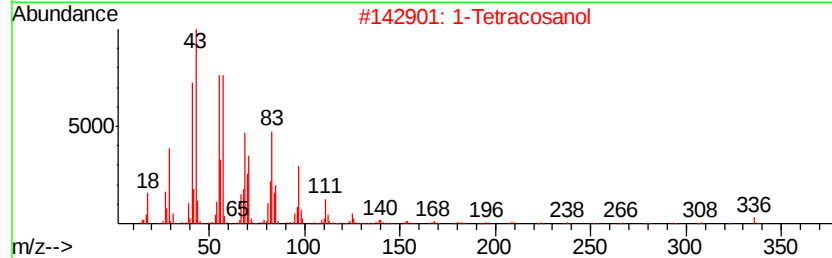
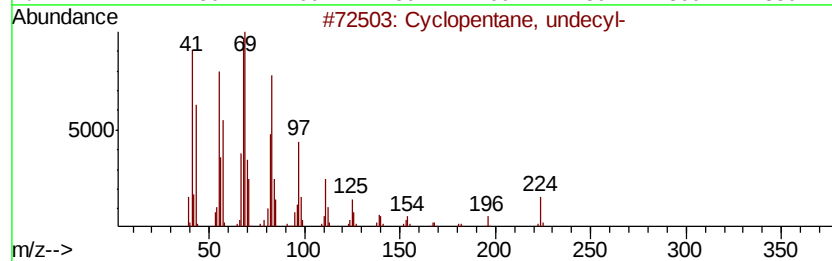
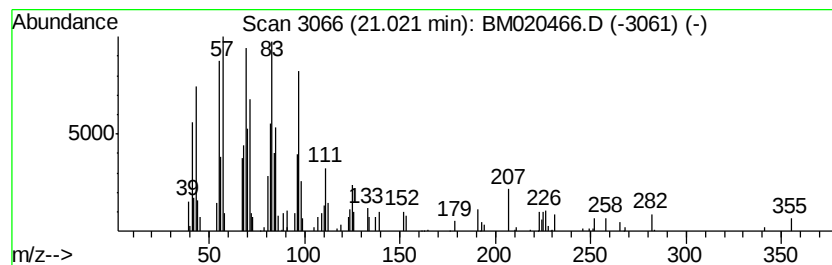
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic21.02 Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 21.02   | 2.06 ng/ul | 121425                              | Chrysene-d12     | 21.32           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | Cyclopentane, undecyl-              | 224 C16H32       | 006785-23-5 83  |
| 2       |            | 1-Tetracosanol                      | 354 C24H50O      | 000506-51-4 81  |
| 3       |            | 1-Hexacosanol                       | 382 C26H54O      | 000506-52-5 76  |
| 4       |            | Cyclohexadecane                     | 224 C16H32       | 000295-65-8 70  |
| 5       |            | Heptafluorobutyric acid, n-penta... | 424 C19H31F7O2   | 1000216-79-3 68 |



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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 |
| unknown-01           | 18.00 | 2.3     | ng/ul | 69231    | 4                       | 17.13 | 614928  | 20.0 |
| (DEL) Alkane: Cyc... | 21.02 | 2.1     | ng/ul | 121425   | 5                       | 21.32 | 1178150 | 20.0 |