LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

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-BM062017.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.645 | 632 | 639 | 649 | rBB | 326422 | 524633 | 14.99% | 1.090% |
| 2 | 6.810 | 662 | 667 | 676 | rVB | 222417 | 327416 | 9.36% | 0.680% |
| 3 | 6.998 | 692 | 699 | 707 | rBB | 327605 | 490532 | 14.02% | 1.019% |
| 4 | 7.457 | 770 | 777 | 784 | rBV | 365287 | 565354 | 16.16% | 1.174% |
| 5 | 8.163 | 891 | 897 | 905 | rBV | 439935 | 666589 | 19.05% | 1.384% |
| 6 | 8.604 | 965 | 972 | 980 | rBV | 332034 | 522989 | 14.95% | 1.086% |
| 7 | 9.316 | 1087 | 1093 | 1100 | rVB | 314064 | 500391 | 14.30% | 1.039% |
| 8 | 9.845 | 1175 | 1183 | 1191 | rBB | 504506 | 792864 | 22.66% | 1.647% |
| 9 | 10.222 | 1240 | 1247 | 1252 | rBV | 571183 | 905994 | 25.89% | 1.882% |
| 10 | 10.269 | 1252 | 1255 | 1264 | rVB | 38373 | 58252 | 1.66% | 0.121% |
| 11 | 10.363 | 1264 | 1271 | 1279 | rBV | 434292 | 686193 | 19.61% | 1.425% |
| 12 | 13.533 | 1804 | 1810 | 1814 | rBV | 1004293 | 1305324 | 37.31% | 2.711% |
| 13 | 13.580 | 1814 | 1818 | 1824 | rVB | 304071 | 396418 | 11.33% | 0.823% |
| 14 | 13.798 | 1849 | 1855 | 1865 | rVB | 1010214 | 1454237 | 41.56% | 3.020% |
| 15 | 14.110 | 1902 | 1908 | 1915 | rBV3 | 892938 | 1366417 | 39.05% | 2.838% |
| 16 | 14.174 | 1915 | 1919 | 1924 | rVV | 46666 | 60761 | 1.74% | 0.126% |
| 17 | 14.321 | 1938 | 1944 | 1953 | rBV | 434937 | 587176 | 16.78% | 1.220% |
| 18 | 14.515 | 1972 | 1977 | 1981 | rVB2 | 34768 | 44012 | 1.26% | 0.091% |
| 19 | 15.115 | 2072 | 2079 | 2084 | rBV | 1251559 | 1808320 | 51.68% | 3.756% |
| 20 | 15.168 | 2084 | 2088 | 2094 | rVB | 68809 | 92105 | 2.63% | 0.191% |
| 21 | 15.239 | 2094 | 2100 | 2106 | rBV | 421030 | 562047 | 16.06% | 1.167% |
| 22 | 16.521 | 2313 | 2318 | 2325 | rVB | 53721 | 88378 | 2.53% | 0.184% |
| 23 | 16.621 | 2328 | 2335 | 2339 | rBV5 | 34748 | 66693 | 1.91% | 0.139% |
| 24 | 16.680 | 2343 | 2345 | 2350 | rVB | 38423 | 45586 | 1.30% | 0.095% |
| 25 | 16.868 | 2371 | 2377 | 2380 | rBV | 1220833 | 1695802 | 48.46% | 3.522% |
| 26 | 16.909 | 2380 | 2384 | 2388 | rVV | 1140271 | 1511922 | 43.21% | 3.140% |
| 27 | 16.968 | 2388 | 2394 | 2398 | rVV | 1386036 | 2031417 | 58.06% | 4.219% |
| 28 | 16.998 | 2398 | 2399 | 2405 | rVV | 181911 | 158169 | 4.52% | 0.329% |
| 29 | 17.274 | 2442 | 2446 | 2450 | rVB | 86019 | 111094 | 3.17% | 0.231% |
| 30 | 17.392 | 2463 | 2466 | 2471 | rBV3 | 32809 | 45374 | 1.30% | 0.094% |
| 31 | 17.445 | 2471 | 2475 | 2481 | rVB6 | 29716 | 44258 | 1.26% | 0.092% |
| 32 | 17.745 | 2520 | 2526 | 2529 | rVV | 185033 | 262482 | 7.50% | 0.545% |
| 33 | 17.792 | 2529 | 2534 | 2541 | rVV | 388058 | 545767 | 15.60% | 1.134% |
| 34 | 17.868 | 2542 | 2547 | 2552 | rVV2 | 74427 | 108100 | 3.09% | 0.225% |

LSC Area Percent Report

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Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

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-BM062017.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.933 | 2552 | 2558 | 2562 | rVV2 | 227303 | 408515 | 11.68% | 0.848% |
| 36 | 17.974 | 2562 | 2565 | 2572 | rVB | 137716 | 184786 | 5.28% | 0.384% |
| 37 | 18.251 | 2608 | 2612 | 2615 | rBV | 157116 | 200510 | 5.73% | 0.416% |
| 38 | 18.286 | 2615 | 2618 | 2625 | rVB | 100598 | 146203 | 4.18% | 0.304% |
| 39 | 18.503 | 2651 | 2655 | 2659 | rVB3 | 51783 | 66835 | 1.91% | 0.139% |
| 40 | 18.551 | 2659 | 2663 | 2667 | rVB | 42802 | 52563 | 1.50% | 0.109% |
| 41 | 18.592 | 2667 | 2670 | 2675 | rVB2 | 44735 | 53572 | 1.53% | 0.111% |
| 42 | 18.674 | 2675 | 2684 | 2689 | rBV2 | 181632 | 297516 | 8.50% | 0.618% |
| 43 | 18.733 | 2689 | 2694 | 2697 | rVV3 | 74217 | 121845 | 3.48% | 0.253% |
| 44 | 18.768 | 2697 | 2700 | 2703 | rVB | 40076 | 48404 | 1.38% | 0.101% |
| 45 | 18.815 | 2703 | 2708 | 2716 | rVB2 | 106559 | 186840 | 5.34% | 0.388% |
| 46 | 18.939 | 2720 | 2729 | 2738 | rVB | 2055191 | 2656546 | 75.92% | 5.517% |
| 47 | 19.015 | 2738 | 2742 | 2744 | rBV | 45607 | 72534 | 2.07% | 0.151% |
| 48 | 19.039 | 2744 | 2746 | 2750 | rVV5 | 45931 | 66880 | 1.91% | 0.139% |
| 49 | 19.086 | 2750 | 2754 | 2758 | rVV2 | 137642 | 168526 | 4.82% | 0.350% |
| 50 | 19.145 | 2758 | 2764 | 2768 | rVV5 | 47688 | 103706 | 2.96% | 0.215% |
| 51 | 19.180 | 2768 | 2770 | 2775 | rVB | 56915 | 73001 | 2.09% | 0.152% |
| 52 | 19.274 | 2781 | 2786 | 2789 | rBV2 | 1947692 | 2892347 | 82.66% | 6.007% |
| 53 | 19.303 | 2789 | 2791 | 2799 | rVV | 1648737 | 2010990 | 57.47% | 4.177% |
| 54 | 19.380 | 2799 | 2804 | 2811 | rVB3 | 92260 | 169509 | 4.84% | 0.352% |
| 55 | 19.486 | 2816 | 2822 | 2827 | rBV | 104087 | 152205 | 4.35% | 0.316% |
| 56 | 19.545 | 2827 | 2832 | 2838 | rVB2 | 72106 | 128973 | 3.69% | 0.268% |
| 57 | 19.639 | 2838 | 2848 | 2854 | rBV3 | 157952 | 401001 | 11.46% | 0.833% |
| 58 | 19.774 | 2866 | 2871 | 2873 | rBV2 | 106385 | 188486 | 5.39% | 0.391% |
| 59 | 19.803 | 2873 | 2876 | 2881 | rVB | 209753 | 315903 | 9.03% | 0.656% |
| 60 | 19.862 | 2881 | 2886 | 2889 | rBV6 | 24514 | 51454 | 1.47% | 0.107% |
| 61 | 19.909 | 2890 | 2894 | 2897 | rBV2 | 81245 | 91212 | 2.61% | 0.189% |
| 62 | 19.962 | 2897 | 2903 | 2907 | rBV2 | 213482 | 333379 | 9.53% | 0.692% |
| 63 | 20.003 | 2907 | 2910 | 2914 | rVB2 | 58870 | 71881 | 2.05% | 0.149% |
| 64 | 20.050 | 2914 | 2918 | 2922 | rVB3 | 42897 | 52757 | 1.51% | 0.110% |
| 65 | 20.103 | 2923 | 2927 | 2931 | rBV | 117698 | 153956 | 4.40% | 0.320% |
| 66 | 20.150 | 2931 | 2935 | 2941 | rBV | 138259 | 177127 | 5.06% | 0.368% |
| 67 | 20.262 | 2949 | 2954 | 2961 | rVB10 | 27751 | 63865 | 1.83% | 0.133% |
| 68 | 20.368 | 2968 | 2972 | 2973 | rBV3 | 47149 | 54484 | 1.56% | 0.113% |
| 69 | 20.403 | 2974 | 2978 | 2981 | rVV5 | 56079 | 100647 | 2.88% | 0.209% |
| 70 | 20.450 | 2983 | 2986 | 2988 | rVV | 42667 | 52352 | 1.50% | 0.109% |
| 71 | 20.556 | 2994 | 3004 | 3012 | rBV | 262156 | 422196 | 12.07% | 0.877% |

LSC Area Percent Report

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Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

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-BM062017.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.721 | 3026 | 3032 | 3036 | rBV2 | 201745 | 370325 | 10.58% | 0.769% |
| 73 | 20.762 | 3036 | 3039 | 3043 | rVV | 175821 | 238190 | 6.81% | 0.495% |
| 74 | 20.815 | 3043 | 3048 | 3052 | rVV3 | 235096 | 442559 | 12.65% | 0.919% |
| 75 | 20.856 | 3052 | 3055 | 3062 | rVB | 226781 | 286493 | 8.19% | 0.595% |
| 76 | 20.962 | 3067 | 3073 | 3079 | rBV | 69746 | 136563 | 3.90% | 0.284% |
| 77 | 21.033 | 3082 | 3085 | 3086 | rBV2 | 59862 | 61848 | 1.77% | 0.128% |
| 78 | 21.080 | 3086 | 3093 | 3097 | rVV3 | 1831328 | 3499046 | 100.00% | 7.267% |
| 79 | 21.121 | 3097 | 3100 | 3111 | rVB | 915247 | 1216001 | 34.75% | 2.526% |
| 80 | 21.233 | 3117 | 3119 | 3122 | rBV | 54013 | 65979 | 1.89% | 0.137% |
| 81 | 21.392 | 3141 | 3146 | 3151 | rBV3 | 129386 | 236184 | 6.75% | 0.491% |
| 82 | 21.439 | 3151 | 3154 | 3157 | rVB4 | 53318 | 72962 | 2.09% | 0.152% |
| 83 | 21.568 | 3173 | 3176 | 3178 | rBV2 | 53552 | 57876 | 1.65% | 0.120% |
| 84 | 21.621 | 3179 | 3185 | 3190 | rVV | 189661 | 291490 | 8.33% | 0.605% |
| 85 | 21.674 | 3190 | 3194 | 3199 | rVV2 | 116280 | 207127 | 5.92% | 0.430% |
| 86 | 21.809 | 3213 | 3217 | 3219 | rBV | 89981 | 114605 | 3.28% | 0.238% |
| 87 | 21.839 | 3219 | 3222 | 3228 | rVB4 | 75156 | 99670 | 2.85% | 0.207% |
| 88 | 22.127 | 3268 | 3271 | 3276 | rVB5 | 93002 | 124755 | 3.57% | 0.259% |
| 89 | 22.356 | 3302 | 3310 | 3316 | rBV4 | 54719 | 150443 | 4.30% | 0.312% |
| 90 | 22.591 | 3344 | 3350 | 3361 | rBV | 621860 | 1736762 | 49.64% | 3.607% |
| 91 | 22.750 | 3373 | 3377 | 3383 | rVB | 78910 | 120979 | 3.46% | 0.251% |
| 92 | 22.874 | 3395 | 3398 | 3405 | rBV5 | 40177 | 83640 | 2.39% | 0.174% |
| 93 | 23.038 | 3421 | 3426 | 3430 | rBV | 296968 | 543260 | 15.53% | 1.128% |
| 94 | 23.091 | 3430 | 3435 | 3439 | rVV | 910019 | 1614725 | 46.15% | 3.354% |
| 95 | 23.133 | 3439 | 3442 | 3450 | rVB | 491196 | 762716 | 21.80% | 1.584% |
| 96 | 23.221 | 3451 | 3457 | 3462 | rBV | 701213 | 1275645 | 36.46% | 2.649% |
| 97 | 23.268 | 3463 | 3465 | 3472 | rVB2 | 132052 | 197430 | 5.64% | 0.410% |
| 98 | 23.750 | 3543 | 3547 | 3552 | rVB5 | 72453 | 129835 | 3.71% | 0.270% |
| 99 | 25.332 | 3809 | 3816 | 3826 | rVB3 | 197332 | 505256 | 14.44% | 1.049% |
| 100 | 25.979 | 3920 | 3926 | 3935 | rVB2 | 104349 | 279306 | 7.98% | 0.580% |

Sum of corrected areas: 48148242

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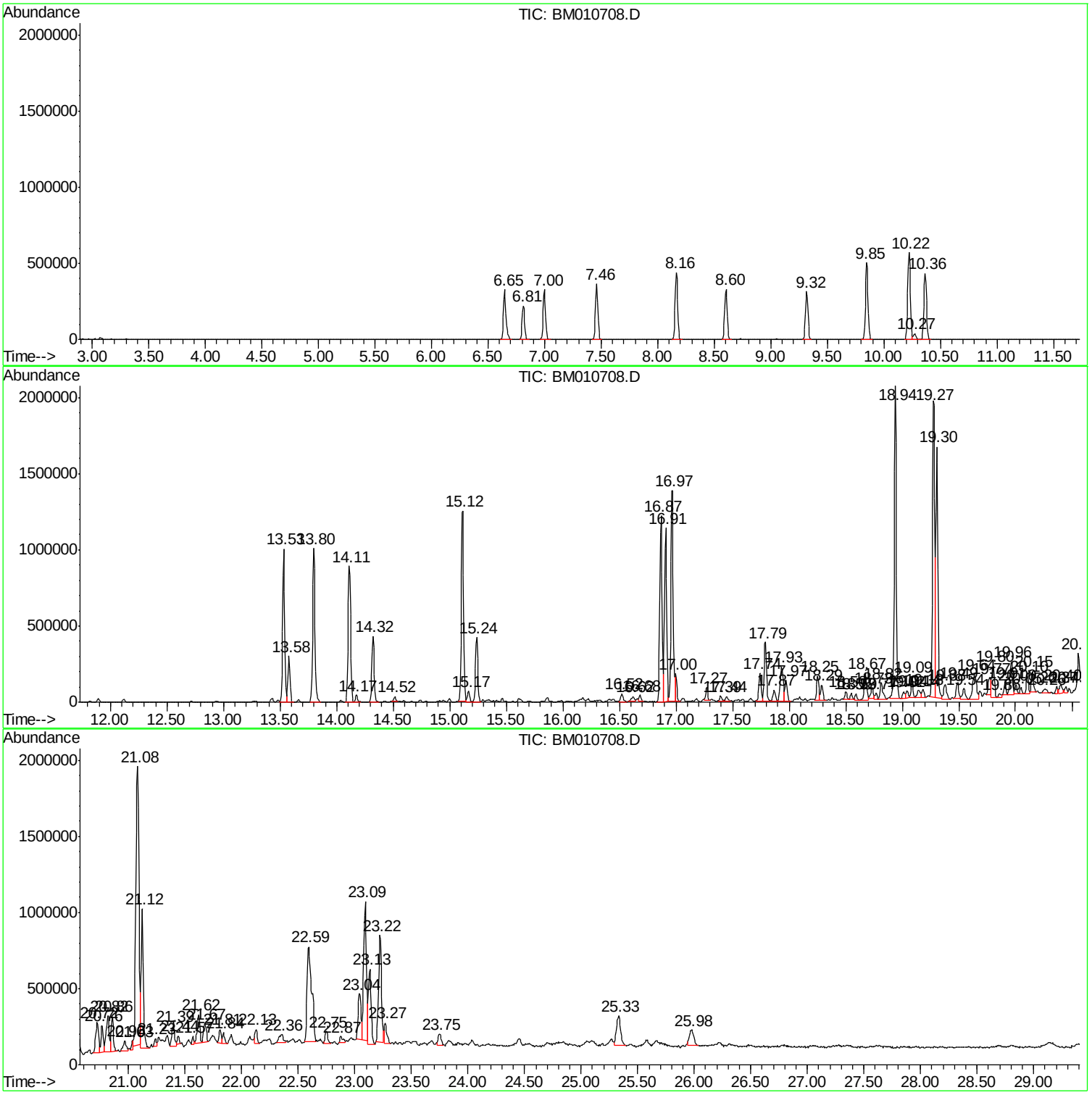
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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



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**Instrument :** BNA_M
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

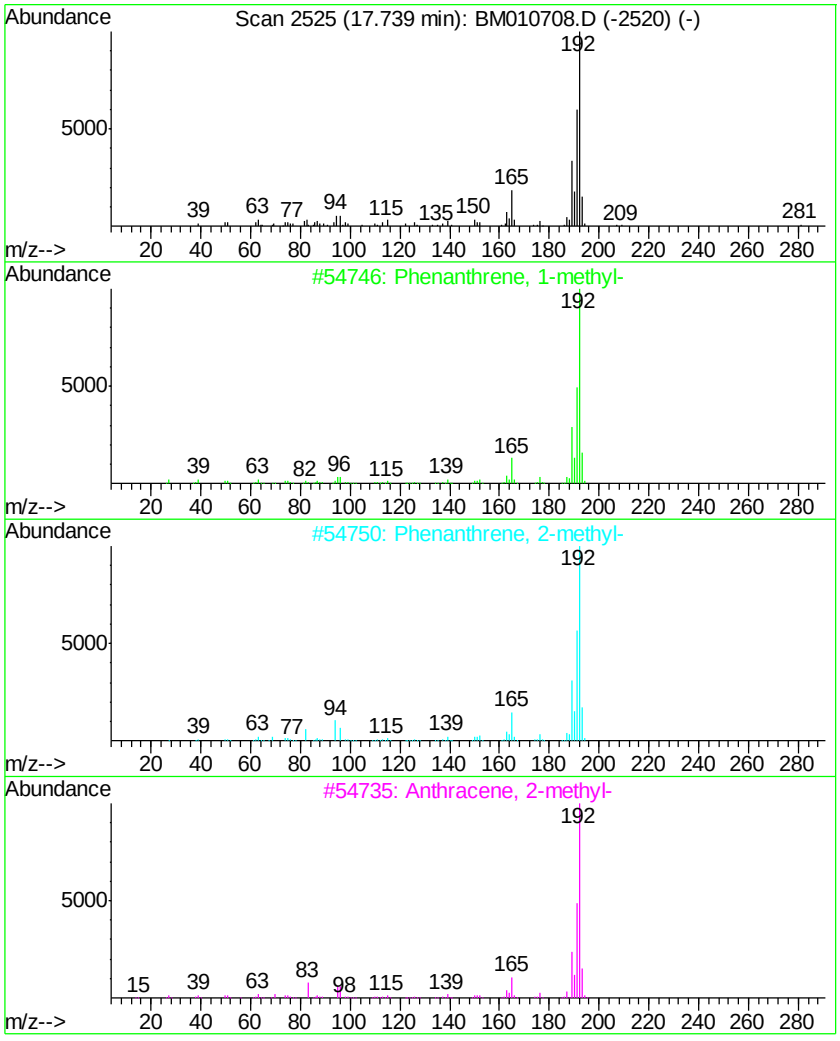
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

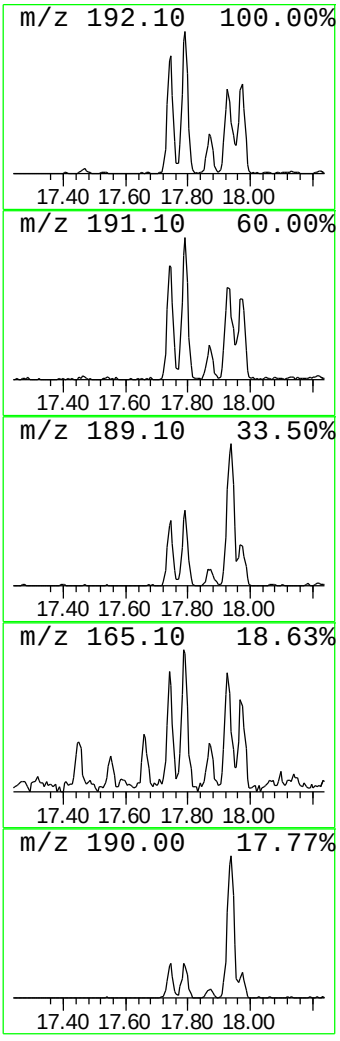
**********

Peak Number 1 Phenanthrene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.74 | 3.10 ng/ul | 262482 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



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Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

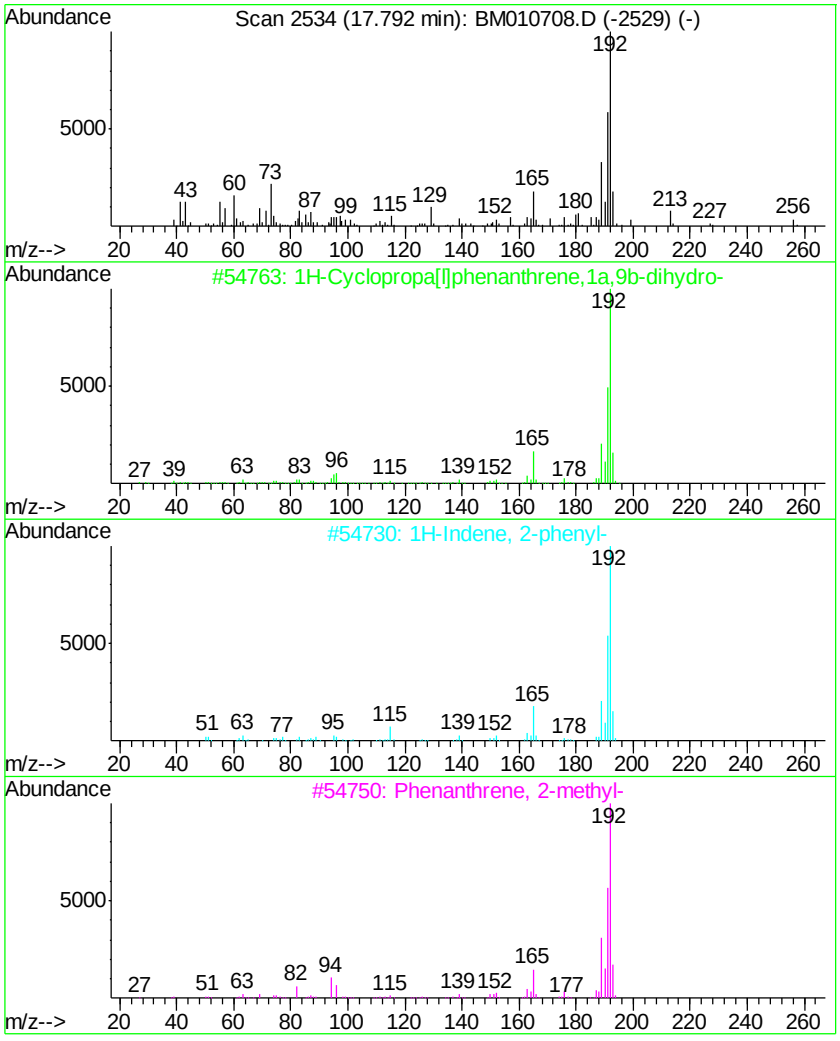
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

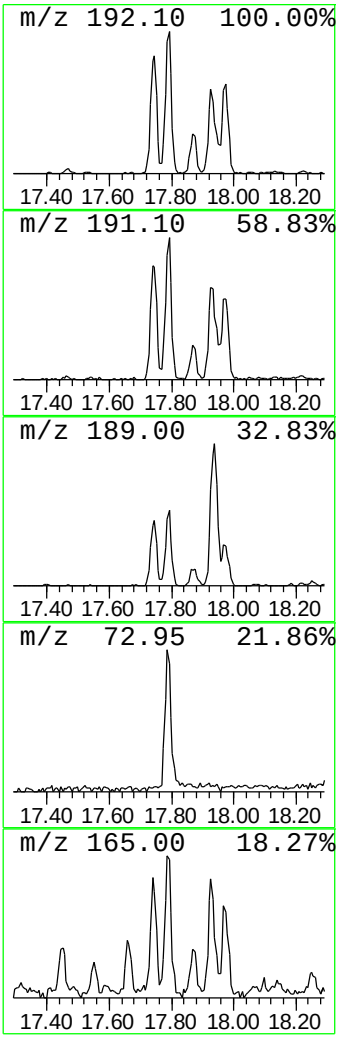
**********

Peak Number 2 1H-Cyclopropa[l]phenanthren... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.79 | 6.44 ng/ul | 545767 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 97 |
| 2 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 96 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

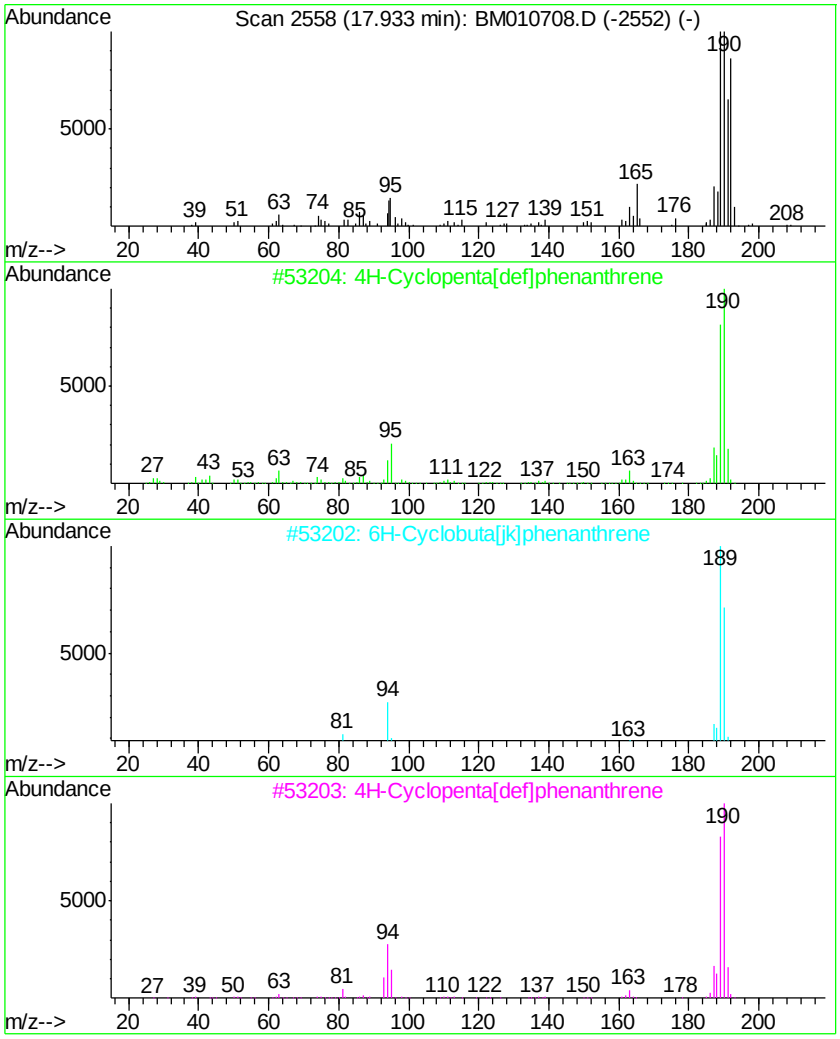
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

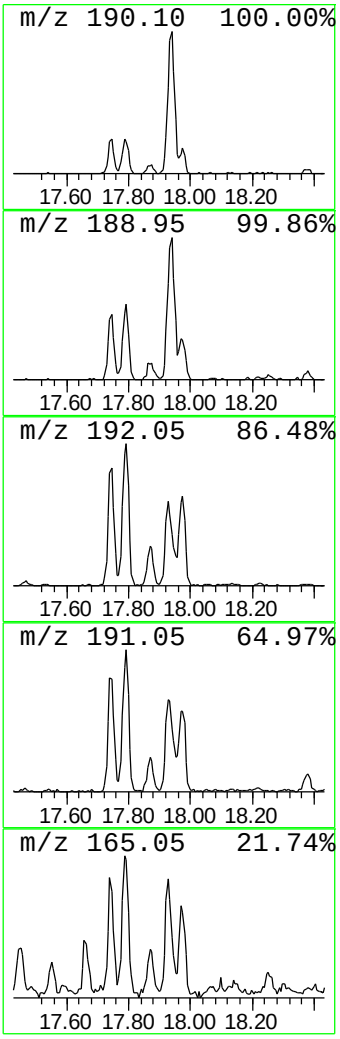
**********

Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.93 | 4.82 ng/ul | 408515 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 55 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 46 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 46 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 46 |
| 5 | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12 | 027410-55-5 | 42 |



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Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

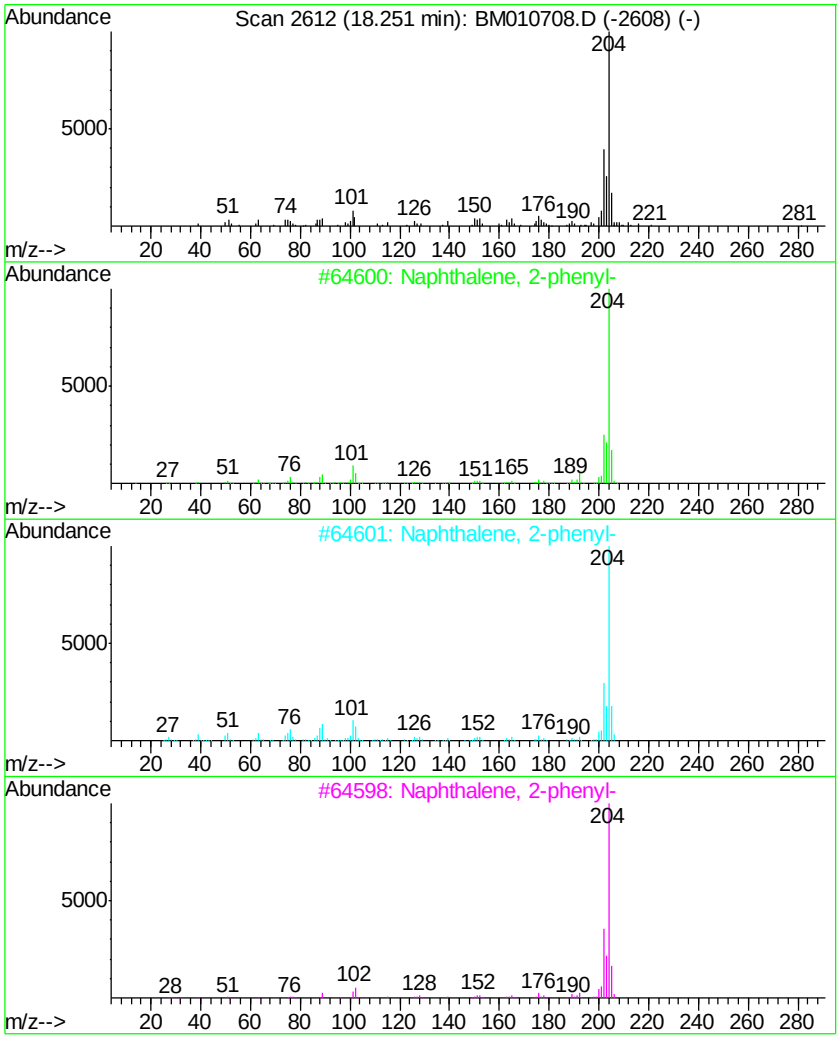
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

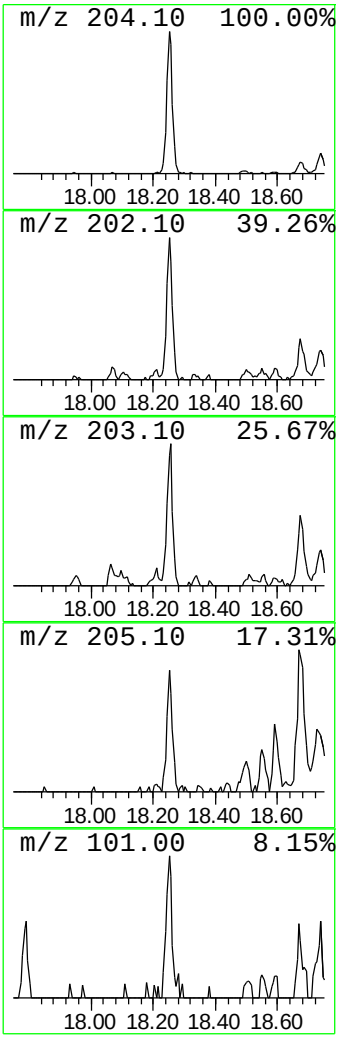
**********

Peak Number 5 Naphthalene, 2-phenyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.25 | 2.36 ng/ul | 200510 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 83 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 62 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

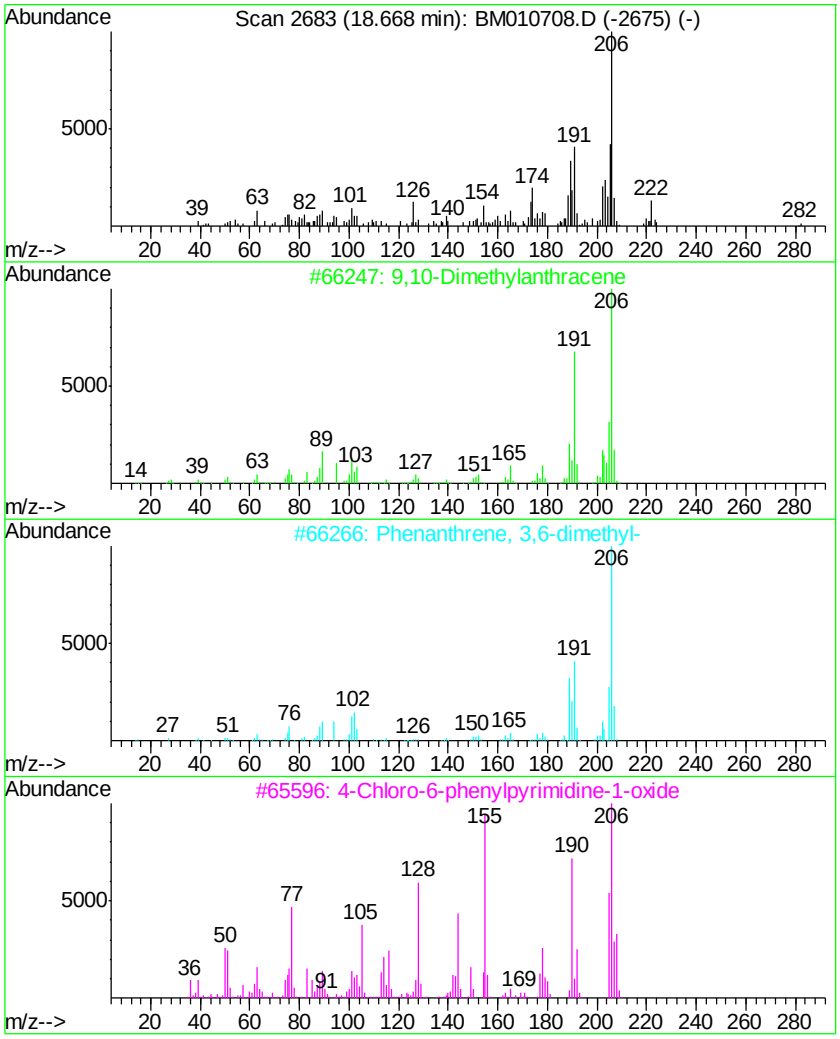
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

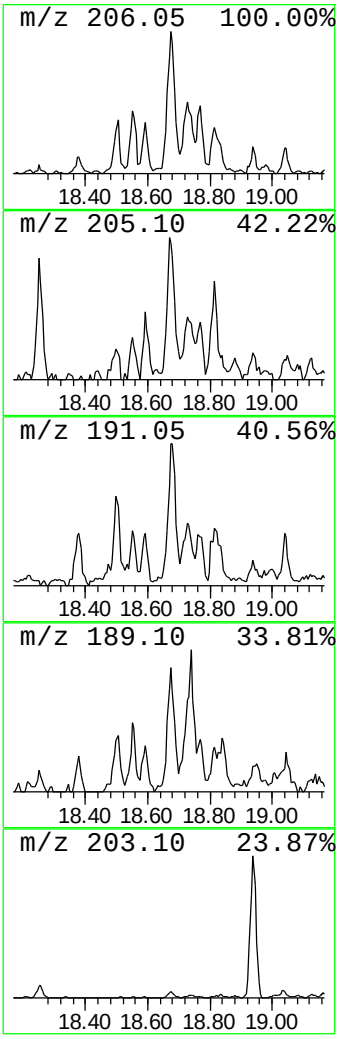
**********

Peak Number 6 9,10-Dimethylanthracene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.67 | 3.51 ng/ul | 297516 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 92 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 89 |
| 3 | 4-Chloro-6-phenylpyrimidine-1-oxide | 206 | C10H7ClN2O | 052816-77-0 | 83 |
| 4 | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 78 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 76 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

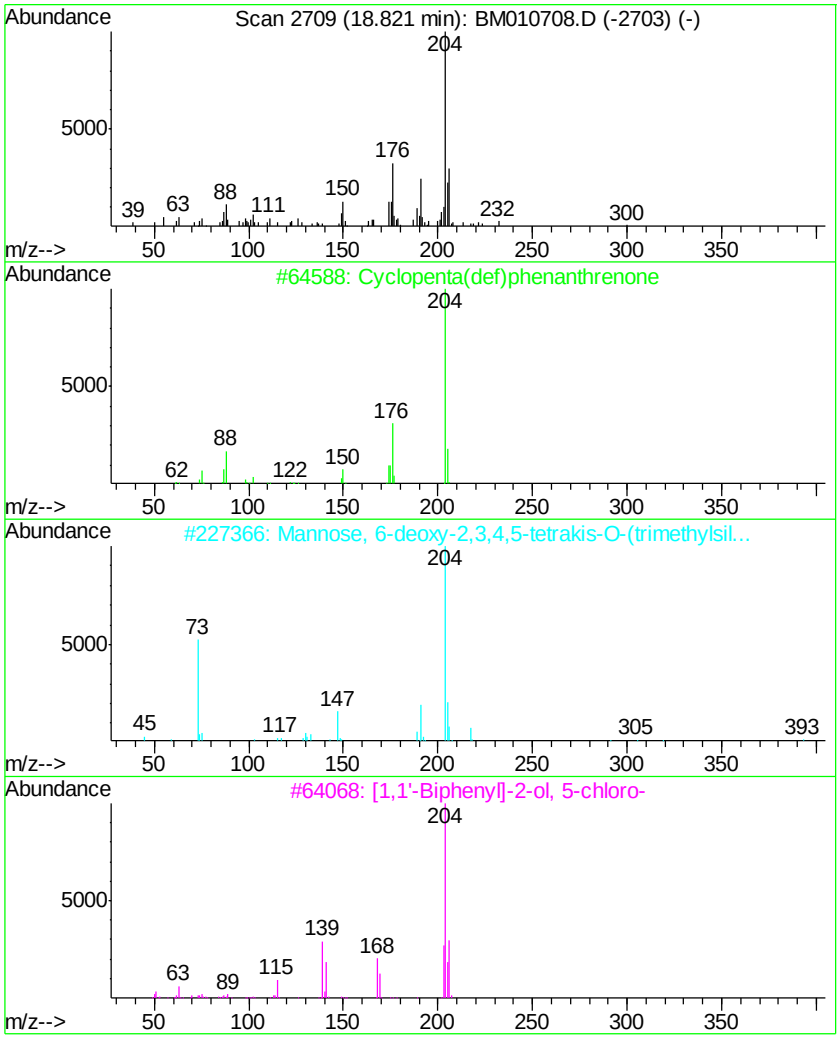
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

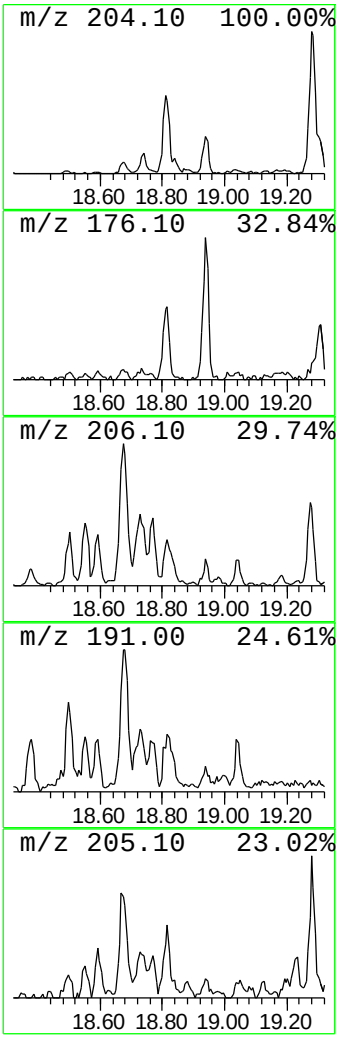
**********

Peak Number 7 Cyclopenta(def)phenanthrenone Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.82 | 2.20 ng/ul | 186840 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 68 |
| 2 | Mannose, 6-deoxy-2,3,4,5-tetraki... | 452 | C18H44O5Si4 | 019127-15-2 | 47 |
| 3 | [1,1'-Biphenyl]-2-ol, 5-chloro- | 204 | C12H9ClO | 000607-12-5 | 43 |
| 4 | Quinoline, 8-methoxy-5-nitro- | 204 | C10H8N2O3 | 1000298-88-7 | 43 |
| 5 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 38 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

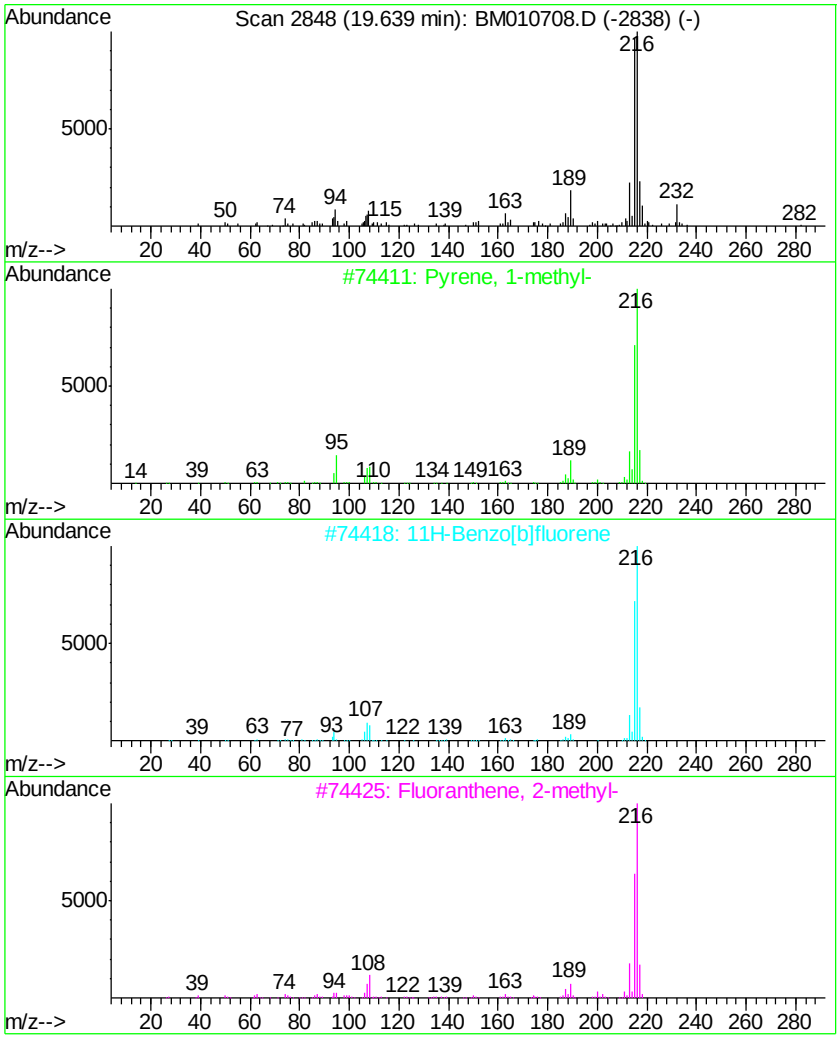
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

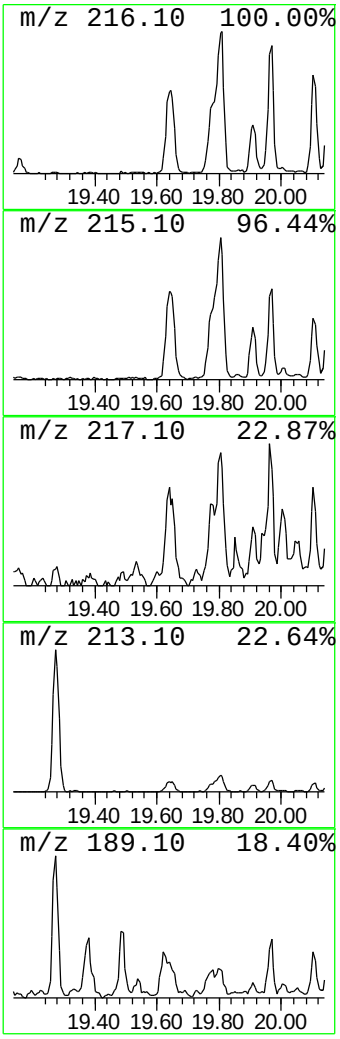
**********

Peak Number 8 Pyrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.64 | 2.29 ng/ul | 401001 | Chrysene-d12 | 21.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 76 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 72 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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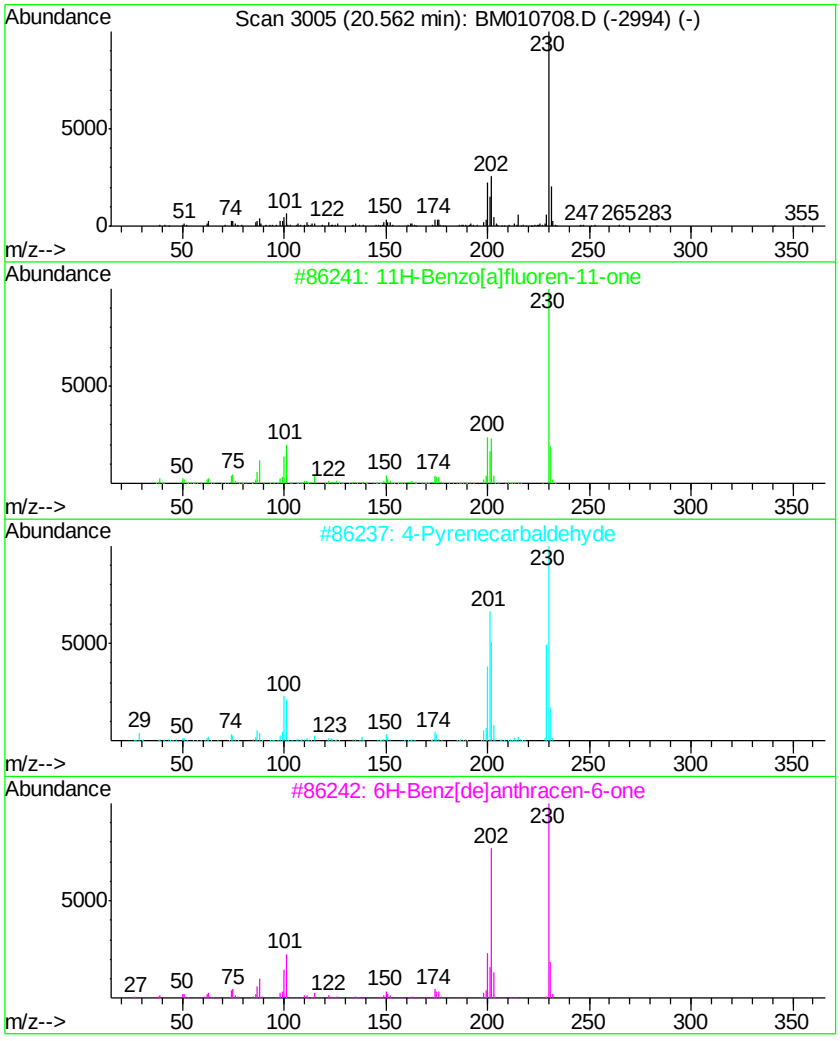
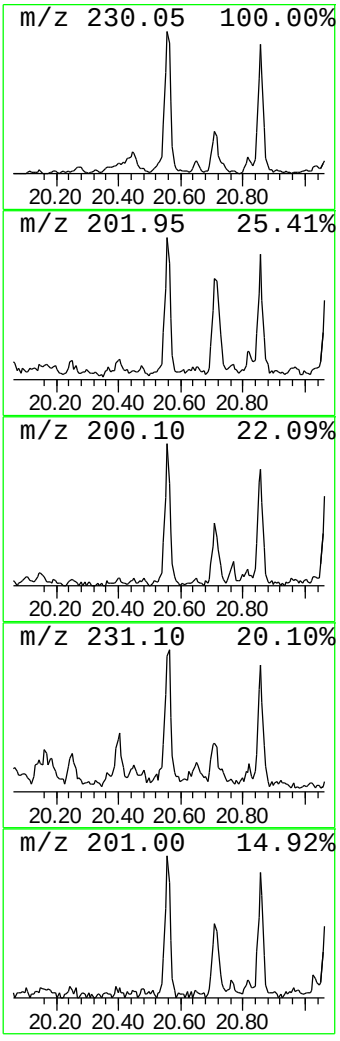
Peak Number 9 11H-Benzo[a]fluoren-11-one Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.56 | 2.41 ng/ul | 422196 | Chrysene-d12 | 21.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 96 |
| 2 | 4-Pyrenecarbaldehyde | 230 | C17H10O | 022245-51-8 | 90 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 89 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 87 |
| 5 | 1-Pyrenecarboxaldehyde | 230 | C17H10O | 003029-19-4 | 83 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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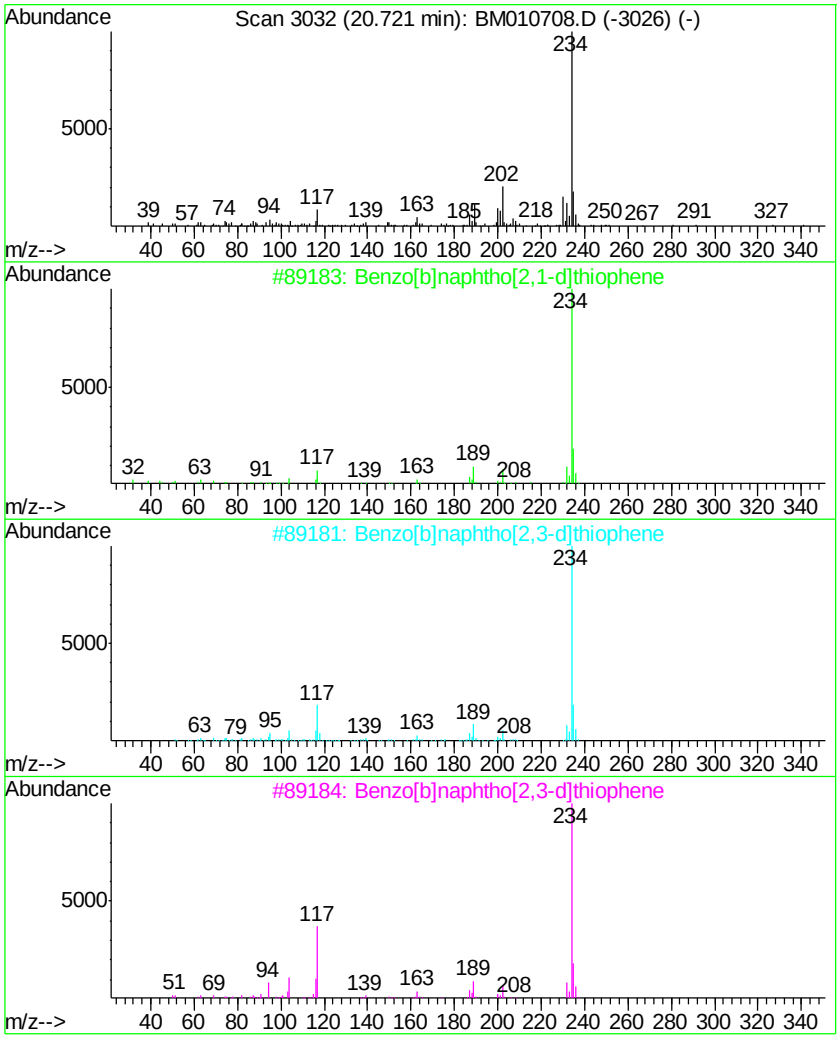
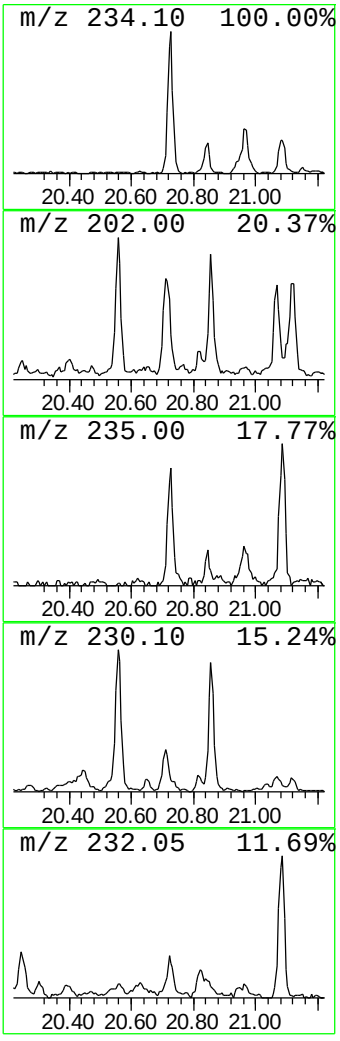
Peak Number 10 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.72 | 2.12 ng/ul | 370325 | Chrysene-d12 | 21.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 95 |
| 2 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 89 |
| 3 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 76 |
| 4 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 76 |
| 5 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 70 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

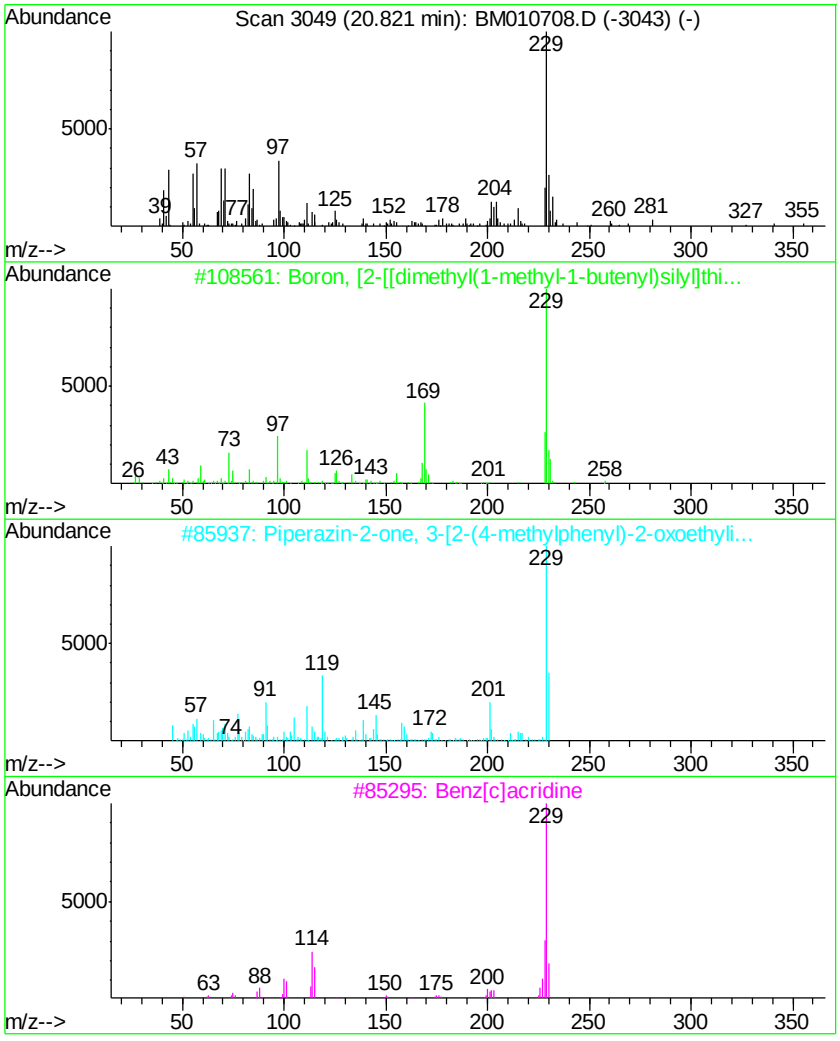
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

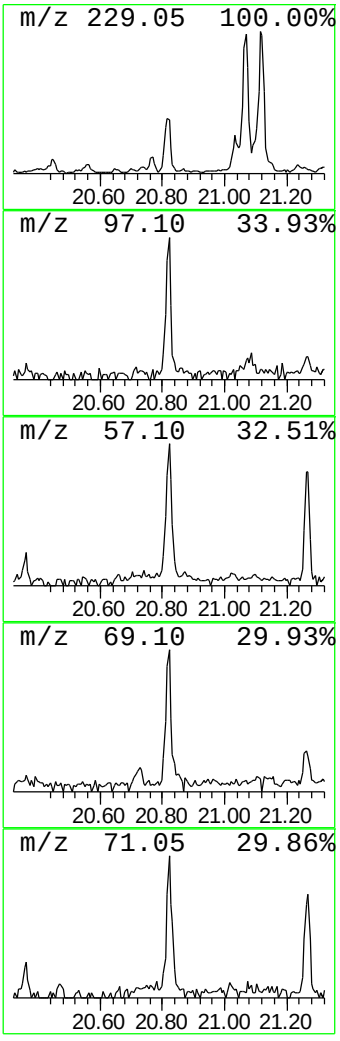
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 Boron, [2-[[dimethyl(1-meth... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.82 | 2.53 ng/ul | 442559 | Chrysene-d12 | 21.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Boron, [2-[[dimethyl(1-methyl-1-... | 258 | C11H23BS2Si | 127855-37-2 | 58 |
| 2 | Piperazin-2-one, 3-[2-(4-methylp... | 230 | C13H14N2O2 | 063656-21-3 | 49 |
| 3 | Benz[c]acridine | 229 | C17H11N | 000225-51-4 | 47 |
| 4 | Thiazole, 2-amino-4-(1H-indol-3-... | 229 | C12H11N3S | 1000304-18-3 | 47 |
| 5 | Malononitrile, 2-indeno[1,2-b]py... | 229 | C15H7N3 | 1000316-60-9 | 43 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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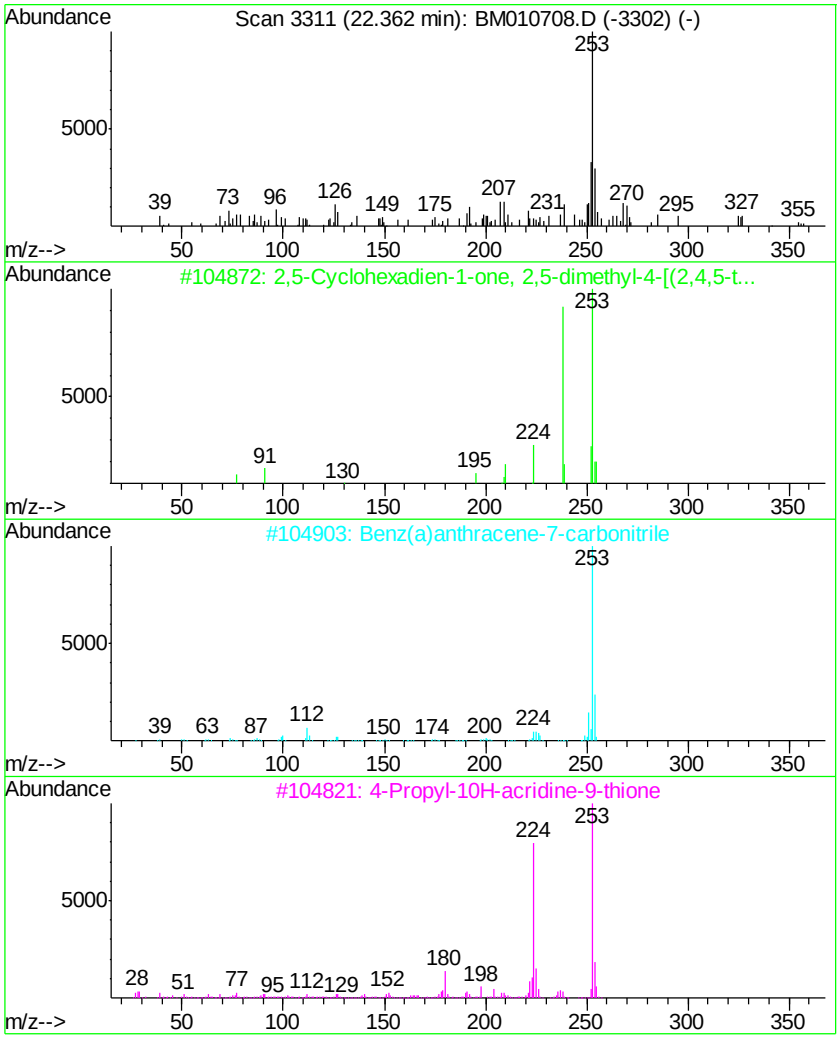
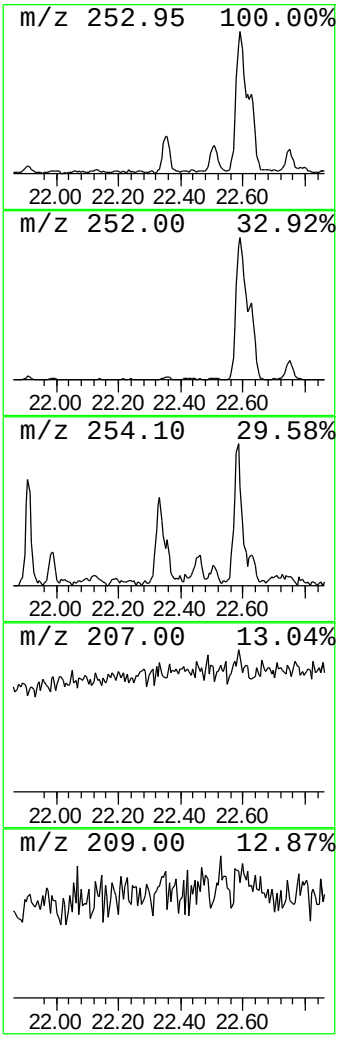
Peak Number 12 2,5-Cyclohexadien-1-one, 2,... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.36 | 2.36 ng/ul | 150443 | Perylene-d12 | 23.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5-Cyclohexadien-1-one, 2,5-dim... | 253 | C17H19NO | 054245-93-1 | 53 |
| 2 | Benz(a)anthracene-7-carbonitrile | 253 | C19H11N | 007476-08-6 | 52 |
| 3 | 4-Propyl-10H-acridine-9-thione | 253 | C16H15NS | 1000211-07-8 | 47 |
| 4 | Acridin-1(2H)-one, 3,4-dihydro-3... | 282 | C18H22N2O | 146352-02-5 | 43 |
| 5 | 6H-Indolo[2,3-b]quinoxaline, 9-c... | 253 | C14H8ClN3 | 1000304-55-7 | 43 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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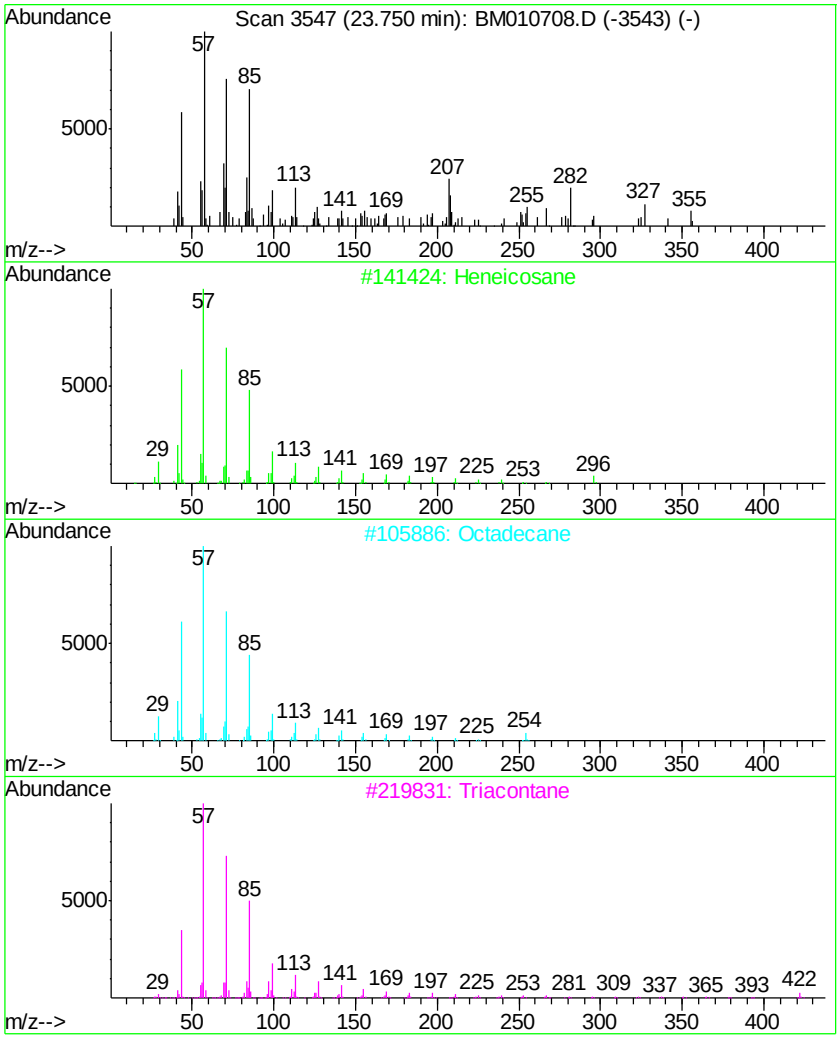
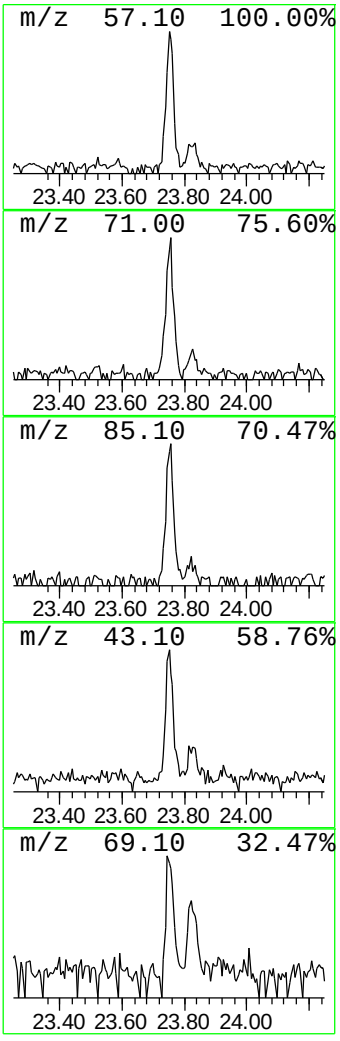
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.75 | 2.04 ng/ul | 129835 | Perylene-d12 | 23.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 78 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 60 |
| 3 | Triacontane | 422 | C30H62 | 000638-68-6 | 53 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 53 |
| 5 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 49 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010708.D
Acq On : 24 Jun 2017 02:02
Operator : SJ/JU
Sample : I3625-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5A00

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Phenanthrene, 1-m... | 17.74 | 3.1 | ng/ul | 262482 | 4 | 16.87 | 1695800 | 20.0 |
| 1H-Cyclopropa[l]p... | 17.79 | 6.4 | ng/ul | 545767 | 4 | 16.87 | 1695800 | 20.0 |
| 4H-Cyclopenta[def... | 17.93 | 4.8 | ng/ul | 408515 | 4 | 16.87 | 1695800 | 20.0 |
| Naphthalene, 2-ph... | 18.25 | 2.4 | ng/ul | 200510 | 4 | 16.87 | 1695800 | 20.0 |
| 9,10-Dimethylanth... | 18.67 | 3.5 | ng/ul | 297516 | 4 | 16.87 | 1695800 | 20.0 |
| Cyclopenta(def)ph... | 18.82 | 2.2 | ng/ul | 186840 | 4 | 16.87 | 1695800 | 20.0 |
| Pyrene, 1-methyl- | 19.64 | 2.3 | ng/ul | 401001 | 5 | 21.08 | 3499050 | 20.0 |
| 11H-Benzo[a]fluor... | 20.56 | 2.4 | ng/ul | 422196 | 5 | 21.08 | 3499050 | 20.0 |
| Benzo[b]naphtho[2... | 20.72 | 2.1 | ng/ul | 370325 | 5 | 21.08 | 3499050 | 20.0 |
| Boron, [2-[[dimet... | 20.82 | 2.5 | ng/ul | 442559 | 5 | 21.08 | 3499050 | 20.0 |
| 2,5-Cyclohexadien... | 22.36 | 2.4 | ng/ul | 150443 | 6 | 23.22 | 1275650 | 20.0 |
| (DEL) Alkane: Str... | 23.75 | 2.0 | ng/ul | 129835 | 6 | 23.22 | 1275650 | 20.0 |