LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM047242.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.022 | 357 | 363 | 372 | rBV | 406490 | 587970 | 7.46% | 0.836% |
| 2 | 6.581 | 622 | 628 | 641 | rVB | 339028 | 550790 | 6.99% | 0.783% |
| 3 | 7.369 | 753 | 762 | 770 | rBV | 968530 | 1465012 | 18.59% | 2.084% |
| 4 | 8.516 | 950 | 957 | 966 | rVB | 207283 | 342898 | 4.35% | 0.488% |
| 5 | 10.122 | 1222 | 1230 | 1235 | rBV | 1092425 | 1771704 | 22.49% | 2.520% |
| 6 | 10.175 | 1235 | 1239 | 1247 | rVB | 209140 | 336202 | 4.27% | 0.478% |
| 7 | 11.798 | 1507 | 1515 | 1522 | rBV | 182002 | 302343 | 3.84% | 0.430% |
| 8 | 12.022 | 1543 | 1553 | 1559 | rBV | 185387 | 315383 | 4.00% | 0.449% |
| 9 | 12.634 | 1651 | 1657 | 1664 | rVB | 509085 | 739979 | 9.39% | 1.052% |
| 10 | 12.851 | 1688 | 1694 | 1702 | rBV2 | 71581 | 134591 | 1.71% | 0.191% |
| 11 | 13.045 | 1723 | 1727 | 1738 | rVB | 35600 | 85117 | 1.08% | 0.121% |
| 12 | 13.181 | 1744 | 1750 | 1751 | rBV | 80827 | 100865 | 1.28% | 0.143% |
| 13 | 13.345 | 1772 | 1778 | 1783 | rBV | 159931 | 271396 | 3.44% | 0.386% |
| 14 | 13.398 | 1783 | 1787 | 1793 | rVB | 96147 | 139189 | 1.77% | 0.198% |
| 15 | 13.581 | 1814 | 1818 | 1821 | rBV | 81795 | 108132 | 1.37% | 0.154% |
| 16 | 13.745 | 1840 | 1846 | 1859 | rBV2 | 213824 | 378402 | 4.80% | 0.538% |
| 17 | 14.028 | 1887 | 1894 | 1900 | rBV | 1448107 | 2159713 | 27.41% | 3.072% |
| 18 | 14.092 | 1900 | 1905 | 1914 | rVB | 524133 | 793814 | 10.08% | 1.129% |
| 19 | 14.251 | 1925 | 1932 | 1941 | rBV5 | 51116 | 139893 | 1.78% | 0.199% |
| 20 | 14.434 | 1955 | 1963 | 1971 | rVV | 370298 | 602150 | 7.64% | 0.856% |
| 21 | 14.516 | 1971 | 1977 | 1982 | rVB | 71528 | 110460 | 1.40% | 0.157% |
| 22 | 14.663 | 1995 | 2002 | 2007 | rBV4 | 67839 | 144879 | 1.84% | 0.206% |
| 23 | 14.834 | 2024 | 2031 | 2034 | rBV3 | 46492 | 95760 | 1.22% | 0.136% |
| 24 | 14.922 | 2041 | 2046 | 2053 | rVB2 | 72186 | 106825 | 1.36% | 0.152% |
| 25 | 15.086 | 2069 | 2074 | 2081 | rBV | 788306 | 1160110 | 14.72% | 1.650% |
| 26 | 15.251 | 2099 | 2102 | 2106 | rVB2 | 83643 | 108922 | 1.38% | 0.155% |
| 27 | 15.386 | 2121 | 2125 | 2129 | rBV | 134250 | 196881 | 2.50% | 0.280% |
| 28 | 15.534 | 2146 | 2150 | 2158 | rVB | 480055 | 783858 | 9.95% | 1.115% |
| 29 | 15.786 | 2186 | 2193 | 2197 | rBV4 | 97961 | 196816 | 2.50% | 0.280% |
| 30 | 16.104 | 2240 | 2247 | 2251 | rBV2 | 127395 | 249776 | 3.17% | 0.355% |
| 31 | 16.151 | 2251 | 2255 | 2260 | rVB2 | 94160 | 130699 | 1.66% | 0.186% |
| 32 | 16.251 | 2268 | 2272 | 2277 | rVB | 85631 | 125771 | 1.60% | 0.179% |
| 33 | 16.375 | 2289 | 2293 | 2296 | rVB3 | 71305 | 96593 | 1.23% | 0.137% |
| 34 | 16.451 | 2302 | 2306 | 2314 | rVB4 | 97910 | 164260 | 2.08% | 0.234% |
| 35 | 16.533 | 2315 | 2320 | 2325 | rVV3 | 80238 | 149509 | 1.90% | 0.213% |
| 36 | 16.610 | 2325 | 2333 | 2344 | rVB | 322848 | 659041 | 8.36% | 0.937% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 16.792 | 2358 | 2364 | 2367 | rBV | 1703771 | 2392693 | 30.37% | 3.403% |
| 38 | 16.833 | 2367 | 2371 | 2378 | rVV | 4538408 | 6289979 | 79.83% | 8.946% |
| 39 | 16.928 | 2378 | 2387 | 2393 | rVV | 1356342 | 2014320 | 25.57% | 2.865% |
| 40 | 16.992 | 2394 | 2398 | 2404 | rVB2 | 114424 | 192851 | 2.45% | 0.274% |
| 41 | 17.204 | 2427 | 2434 | 2439 | rBV | 338905 | 535531 | 6.80% | 0.762% |
| 42 | 17.322 | 2450 | 2454 | 2459 | rBV3 | 164131 | 235826 | 2.99% | 0.335% |
| 43 | 17.375 | 2459 | 2463 | 2471 | rVB2 | 163848 | 253431 | 3.22% | 0.360% |
| 44 | 17.516 | 2483 | 2487 | 2494 | rVB | 93898 | 184922 | 2.35% | 0.263% |
| 45 | 17.669 | 2508 | 2513 | 2517 | rBV | 541156 | 795759 | 10.10% | 1.132% |
| 46 | 17.722 | 2517 | 2522 | 2529 | rVV | 871335 | 1275617 | 16.19% | 1.814% |
| 47 | 17.798 | 2531 | 2535 | 2540 | rVV | 319880 | 452730 | 5.75% | 0.644% |
| 48 | 17.863 | 2540 | 2546 | 2550 | rVV2 | 1076514 | 1785493 | 22.66% | 2.539% |
| 49 | 17.898 | 2550 | 2552 | 2560 | rVB | 365056 | 508506 | 6.45% | 0.723% |
| 50 | 18.022 | 2570 | 2573 | 2577 | rVV4 | 121591 | 148064 | 1.88% | 0.211% |
| 51 | 18.075 | 2579 | 2582 | 2585 | rVB3 | 69637 | 89370 | 1.13% | 0.127% |
| 52 | 18.180 | 2596 | 2600 | 2604 | rBV | 373930 | 494046 | 6.27% | 0.703% |
| 53 | 18.227 | 2604 | 2608 | 2612 | rVB2 | 197759 | 277673 | 3.52% | 0.395% |
| 54 | 18.433 | 2640 | 2643 | 2647 | rVB | 111368 | 123460 | 1.57% | 0.176% |
| 55 | 18.486 | 2648 | 2652 | 2655 | rVV | 156850 | 221693 | 2.81% | 0.315% |
| 56 | 18.522 | 2655 | 2658 | 2662 | rVB2 | 122047 | 156045 | 1.98% | 0.222% |
| 57 | 18.604 | 2668 | 2672 | 2677 | rBV | 334519 | 569281 | 7.23% | 0.810% |
| 58 | 18.669 | 2678 | 2683 | 2686 | rVV4 | 258435 | 424203 | 5.38% | 0.603% |
| 59 | 18.745 | 2693 | 2696 | 2704 | rBV3 | 212231 | 407935 | 5.18% | 0.580% |
| 60 | 18.869 | 2712 | 2717 | 2723 | rBV | 5773601 | 7785563 | 98.81% | 11.073% |
| 61 | 19.027 | 2740 | 2744 | 2748 | rBV2 | 183632 | 257413 | 3.27% | 0.366% |
| 62 | 19.116 | 2756 | 2759 | 2764 | rVB | 177594 | 233997 | 2.97% | 0.333% |
| 63 | 19.239 | 2770 | 2780 | 2789 | rBV | 4532470 | 7878933 | 100.00% | 11.206% |
| 64 | 19.316 | 2790 | 2793 | 2800 | rVB2 | 216330 | 392455 | 4.98% | 0.558% |
| 65 | 19.421 | 2808 | 2811 | 2814 | rBV | 244504 | 321644 | 4.08% | 0.457% |
| 66 | 19.457 | 2814 | 2817 | 2820 | rVV | 696968 | 737096 | 9.36% | 1.048% |
| 67 | 19.745 | 2862 | 2866 | 2870 | rVB | 922159 | 1218534 | 15.47% | 1.733% |
| 68 | 19.845 | 2879 | 2883 | 2887 | rVB | 768283 | 934887 | 11.87% | 1.330% |
| 69 | 19.898 | 2889 | 2892 | 2896 | rVB2 | 397791 | 497940 | 6.32% | 0.708% |
| 70 | 20.039 | 2914 | 2916 | 2920 | rVB | 238201 | 233943 | 2.97% | 0.333% |
| 71 | 21.021 | 3078 | 3083 | 3088 | rBV2 | 2715961 | 5639222 | 71.57% | 8.020% |
| 72 | 21.068 | 3088 | 3091 | 3101 | rVB | 1829089 | 2576139 | 32.70% | 3.664% |
| 73 | 22.898 | 3396 | 3402 | 3408 | rBV | 1254557 | 3327504 | 42.23% | 4.733% |
| 74 | 23.609 | 3519 | 3523 | 3535 | rVB | 1247623 | 2640631 | 33.52% | 3.756% |

Sum of corrected areas: 70311032

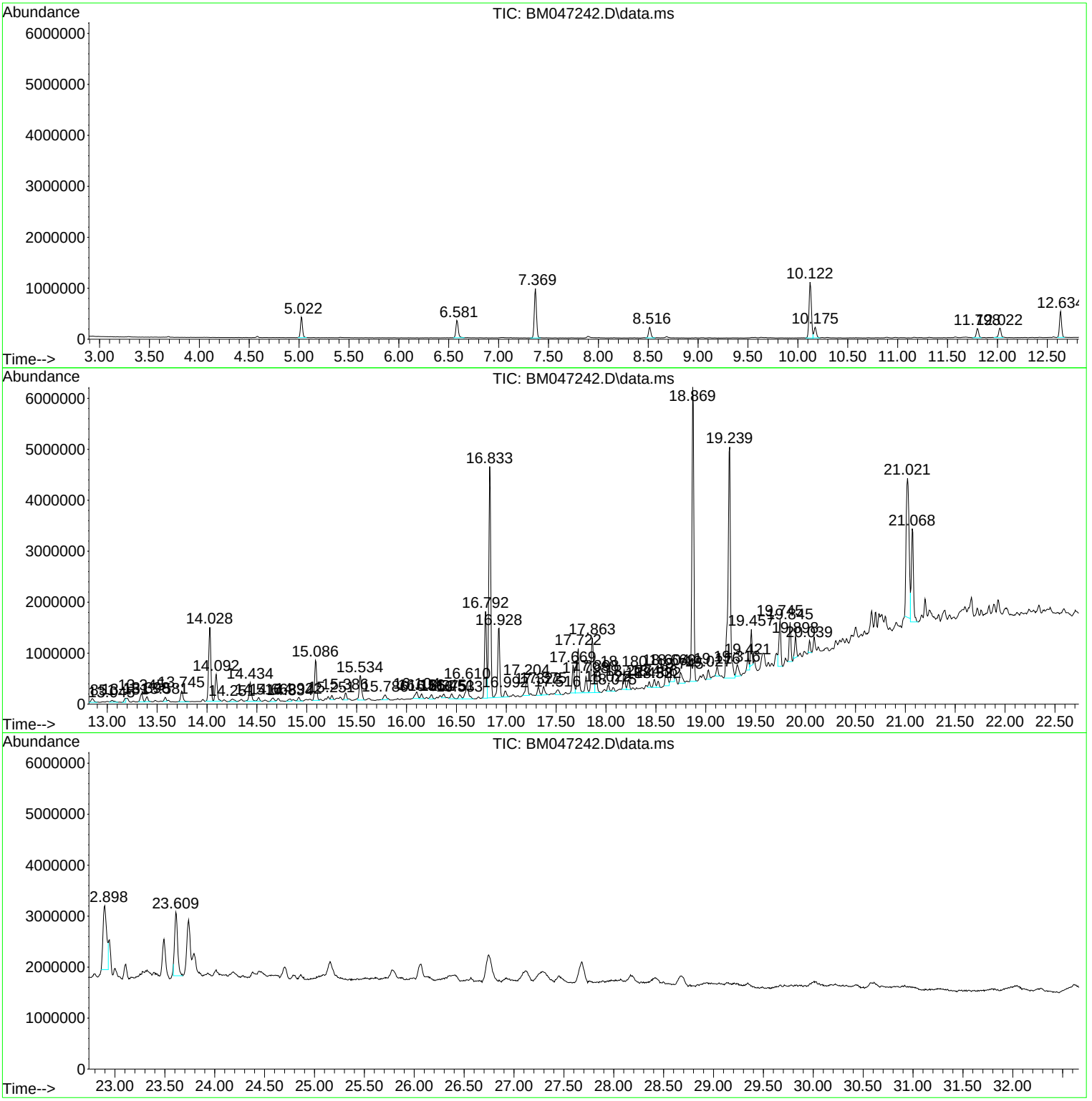
**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

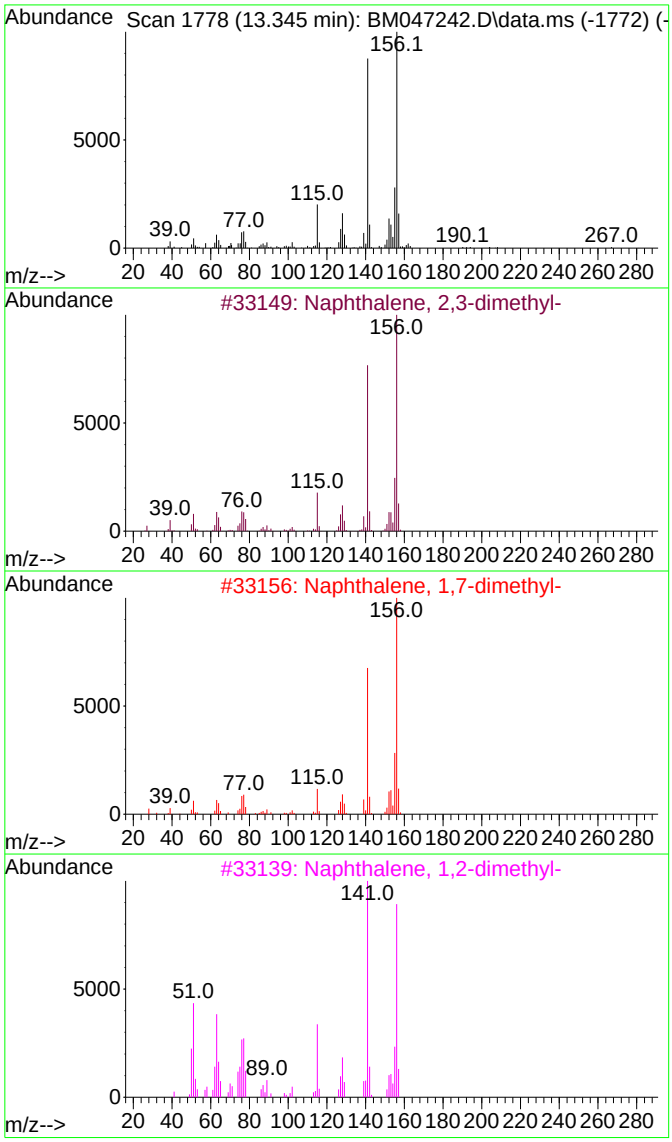
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

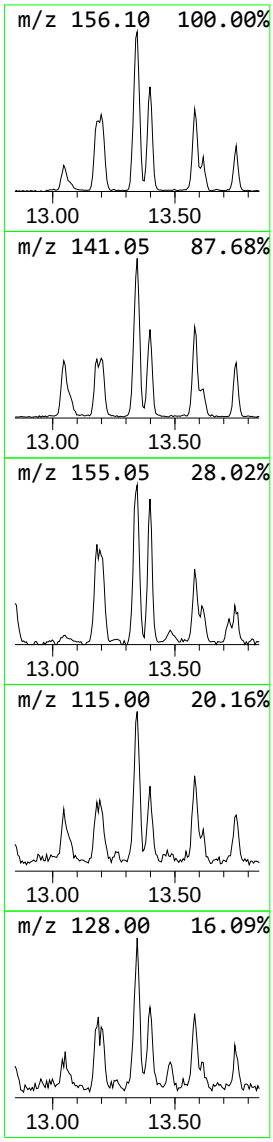
**********

Peak Number 1 Naphthalene, 2,3-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.345 | 2.51 ng | 271396 | Acenaphthene-d10 | 14.028 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 3 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 97 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

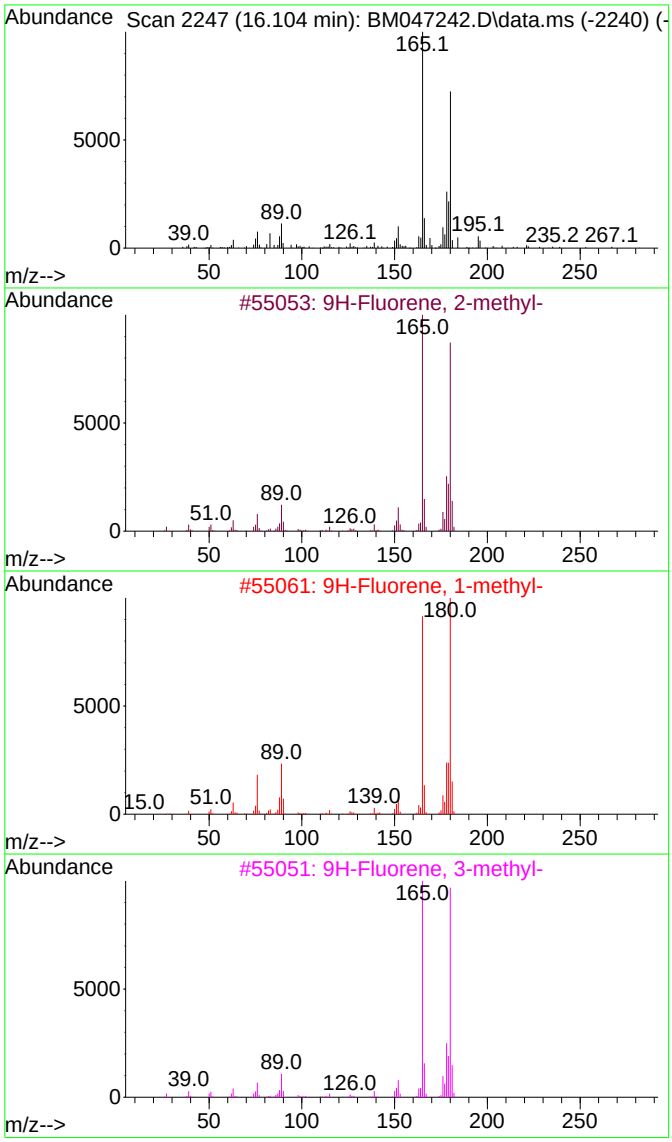
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

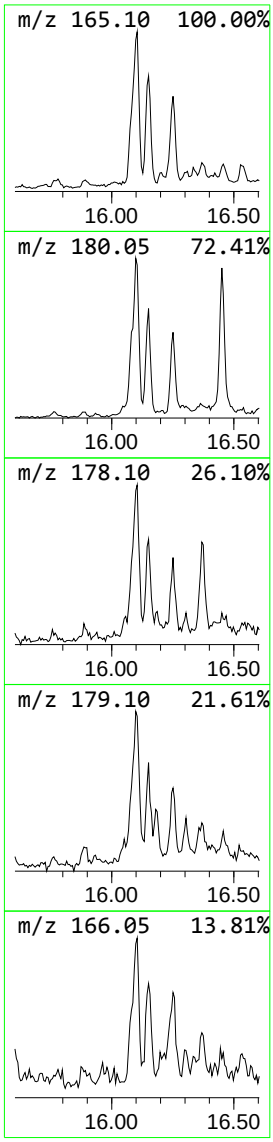
**********

Peak Number 2 9H-Fluorene, 2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.104 | 2.09 ng | 249776 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 93 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 90 |
| 3 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 89 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 86 |
| 5 | 9H-Fluorene, 4-methyl- | 180 | C14H12 | 001556-99-6 | 74 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

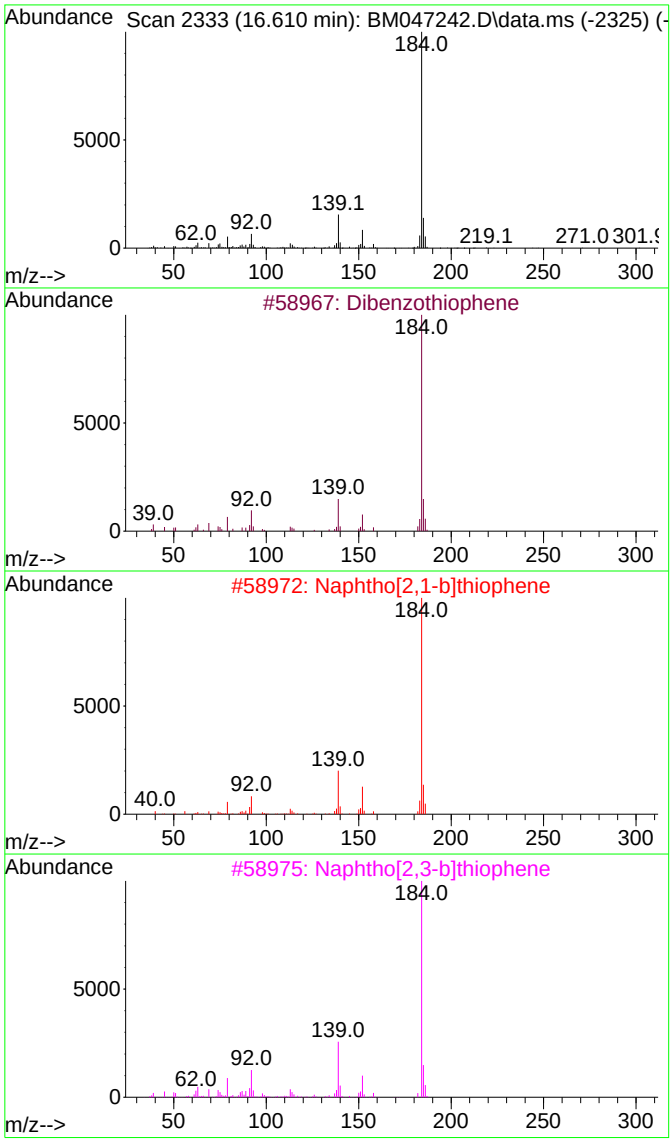
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

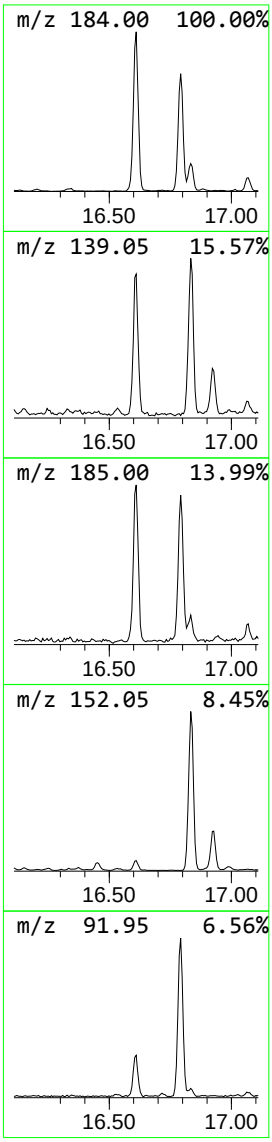
**********

Peak Number 3 Dibenzothiophene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.610 | 5.51 ng | 659041 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 3 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 94 |
| 4 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 91 |
| 5 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 83 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

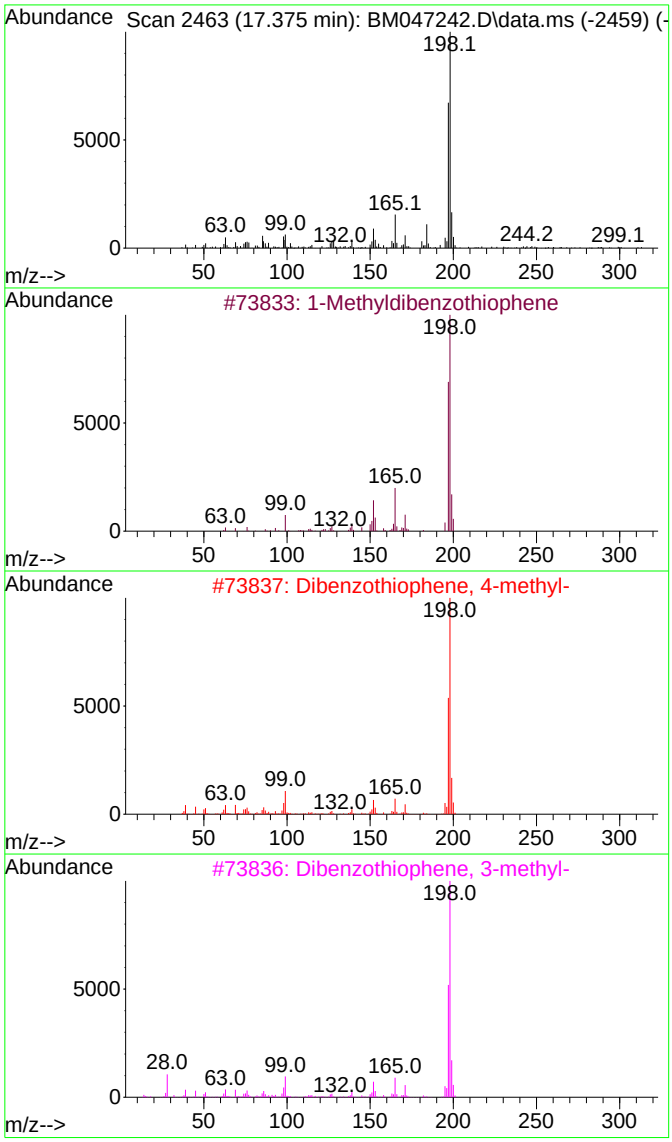
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

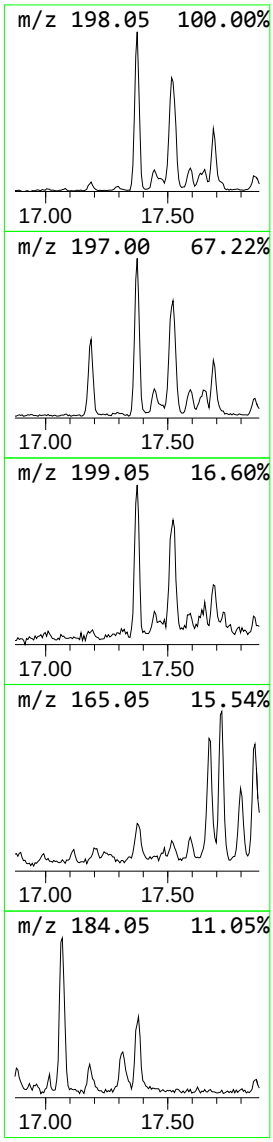
**********

Peak Number 4 1-Methyldibenzothiophene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.375 | 2.12 ng | 253431 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Methyldibenzothiophene | 198 | C13H10S | 031317-07-4 | 95 |
| 2 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 95 |
| 3 | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 93 |
| 4 | 2-Methyldibenzothiophene | 198 | C13H10S | 1000383-55-1 | 93 |
| 5 | Benzenamine, 4,4'-methylenebis- | 198 | C13H14N2 | 000101-77-9 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

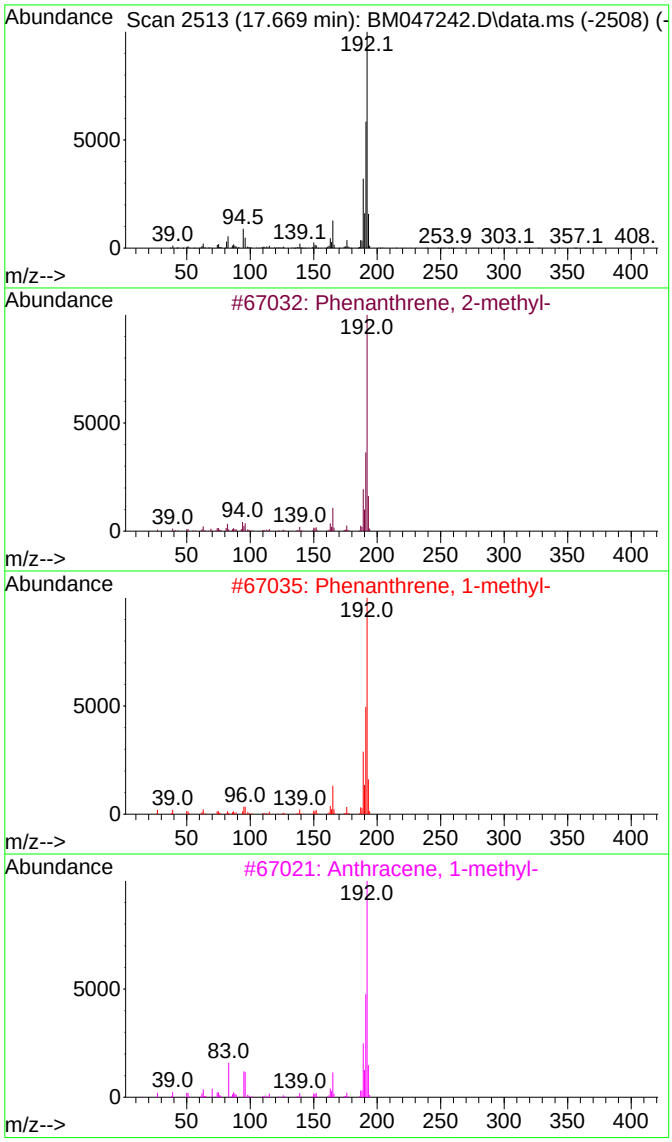
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

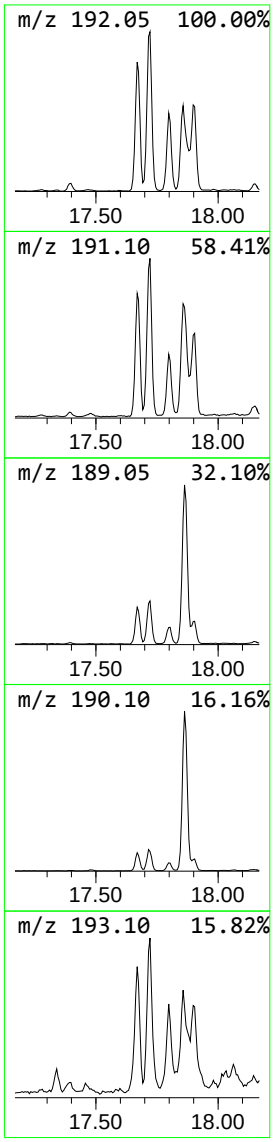
**********

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.669 | 6.65 ng | 795759 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

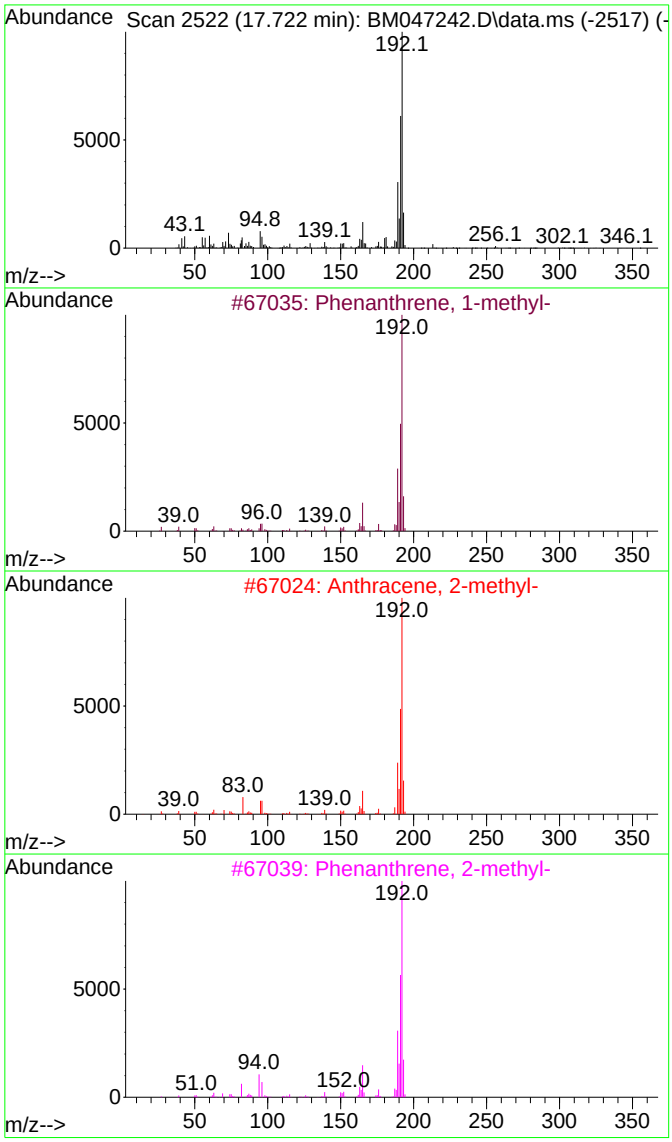
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

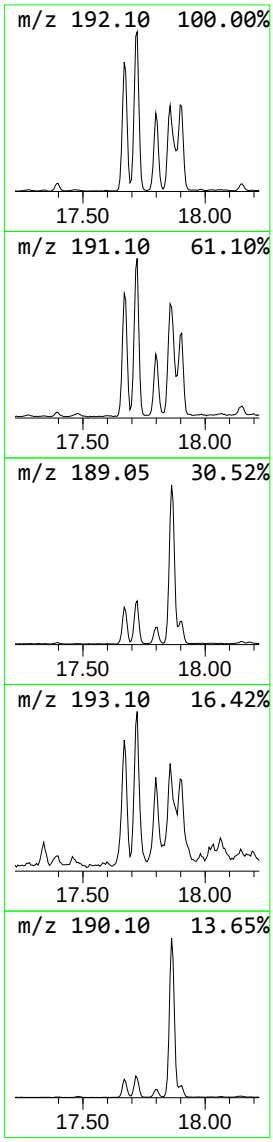
**********

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.722 | 10.66 ng | 1275620 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 5 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

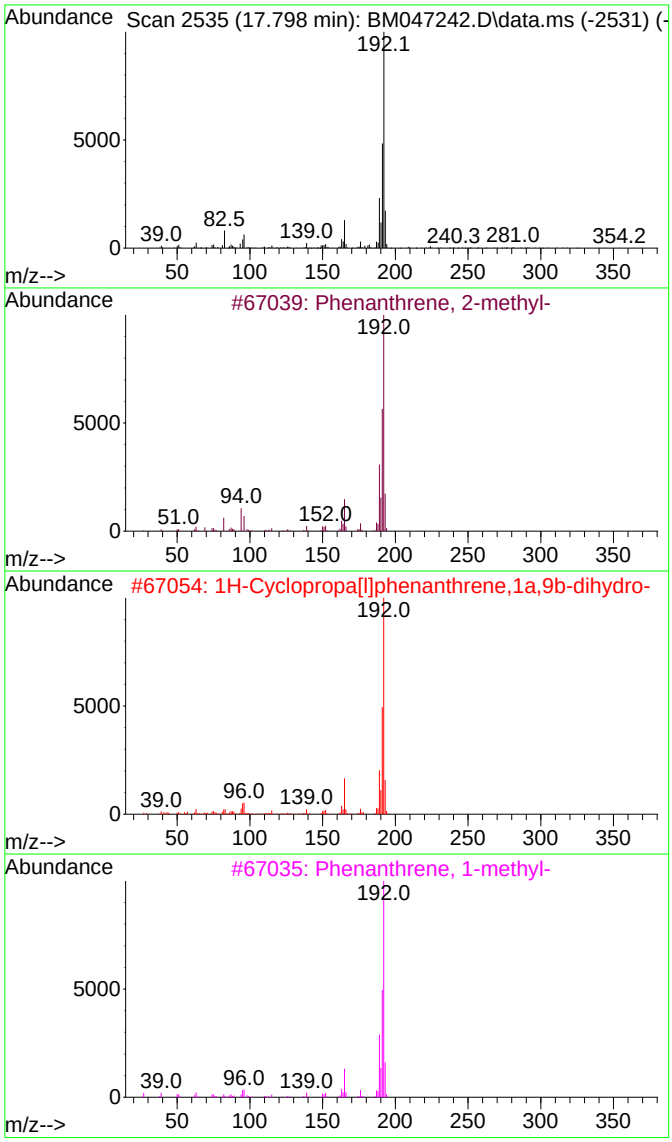
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

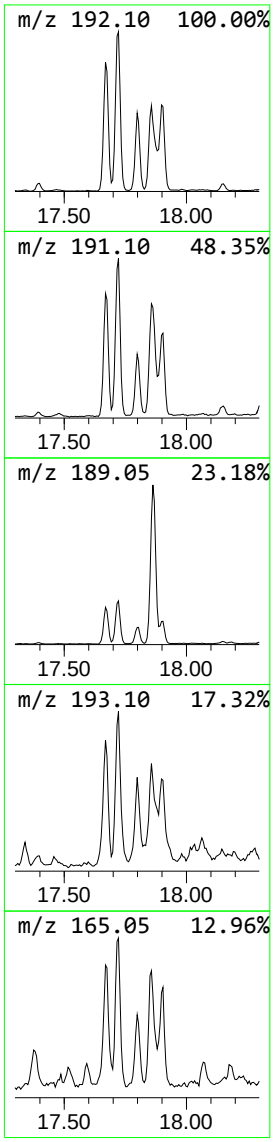
**********

Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.798 | 3.78 ng | 452730 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 97 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 94 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



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Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

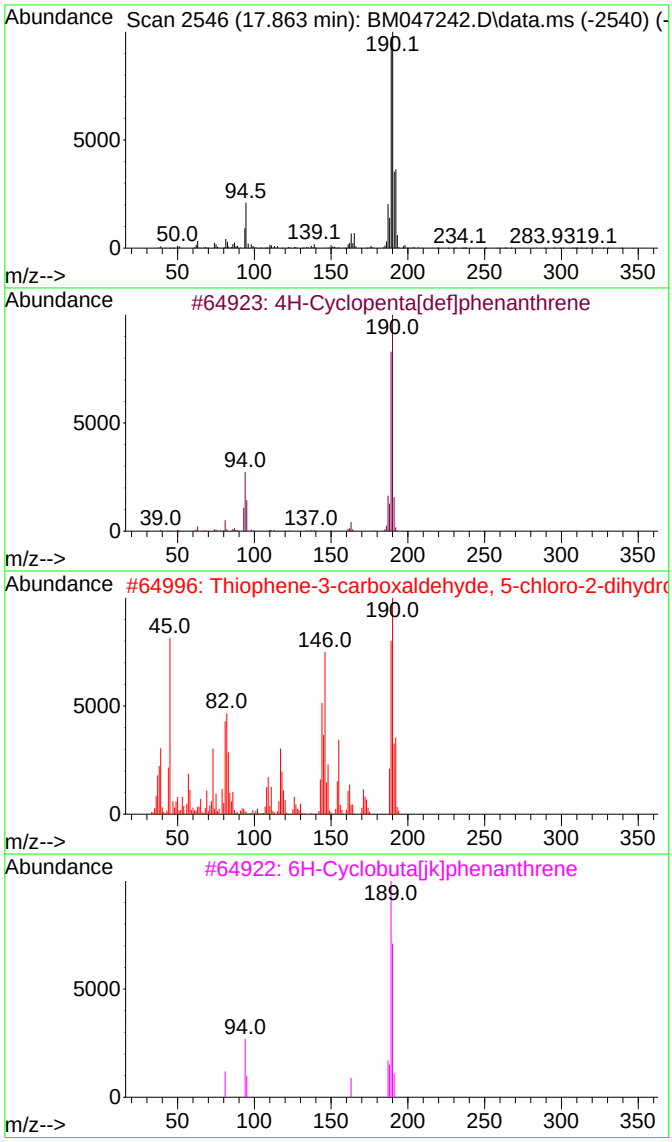
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

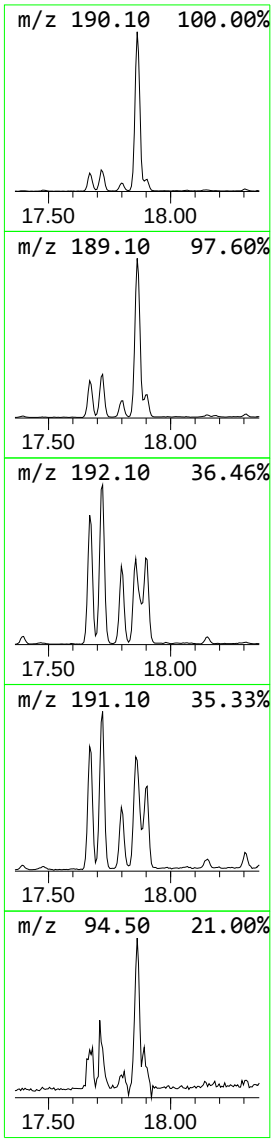
**********

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.863 | 14.92 ng | 1785490 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 53 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |
| 4 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 46 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |



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Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

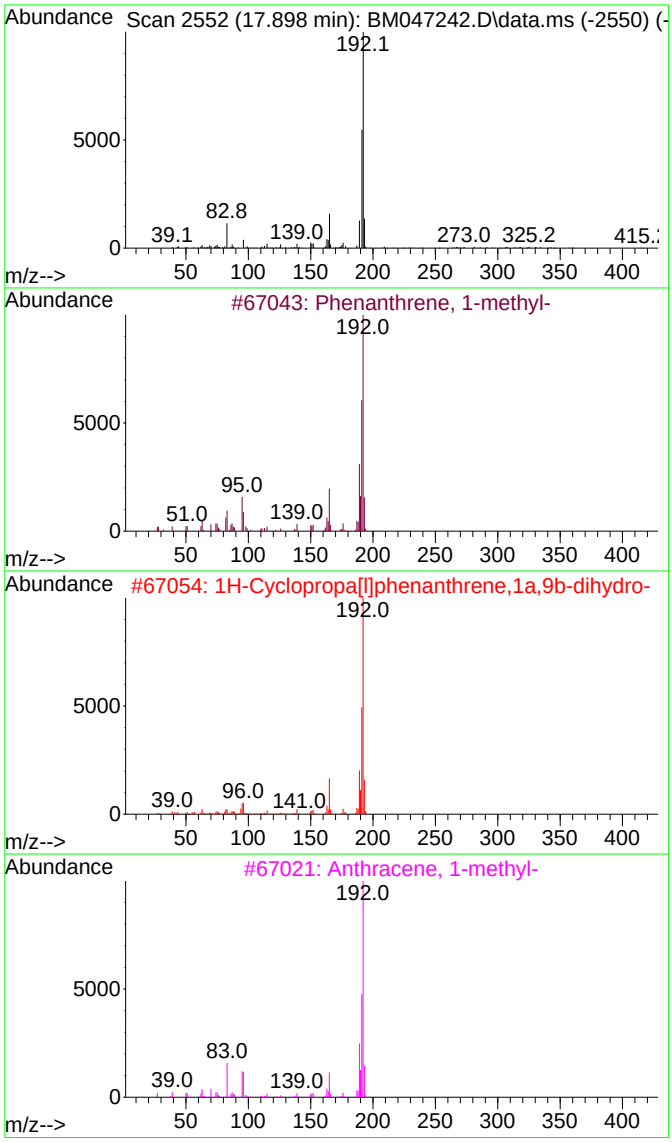
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

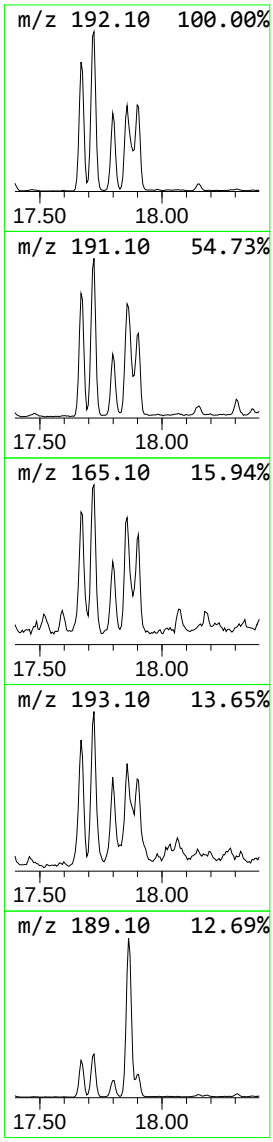
**********

Peak Number 9 Anthracene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.898 | 4.25 ng | 508506 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 87 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 87 |
| 4 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 87 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 83 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

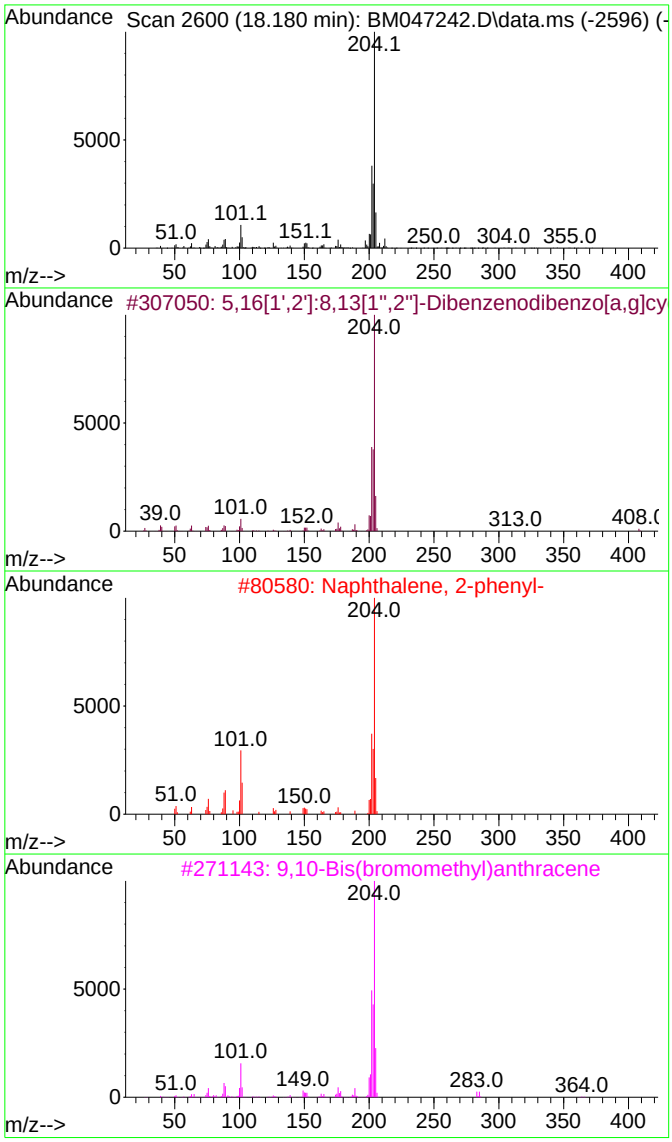
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

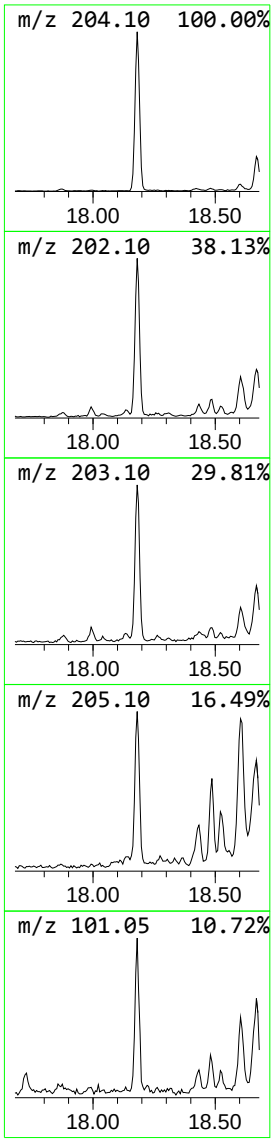
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.180 | 4.13 ng | 494046 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 87 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 3 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 62 |
| 4 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 55 |
| 5 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 52 |



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Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

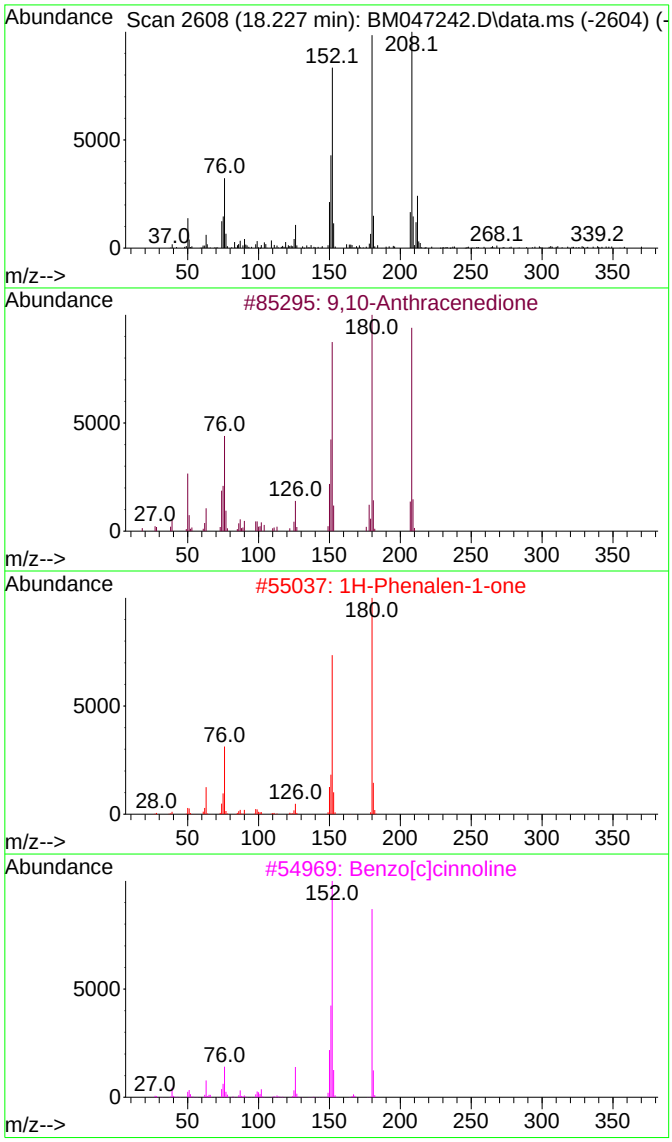
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

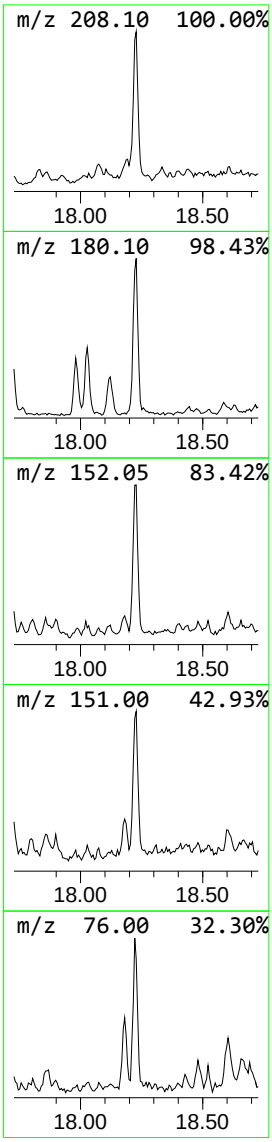
**********

Peak Number 11 9,10-Anthracenedione Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.227 | 2.32 ng | 277673 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97 |
| 2 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 60 |
| 3 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 60 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 60 |
| 5 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 55 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

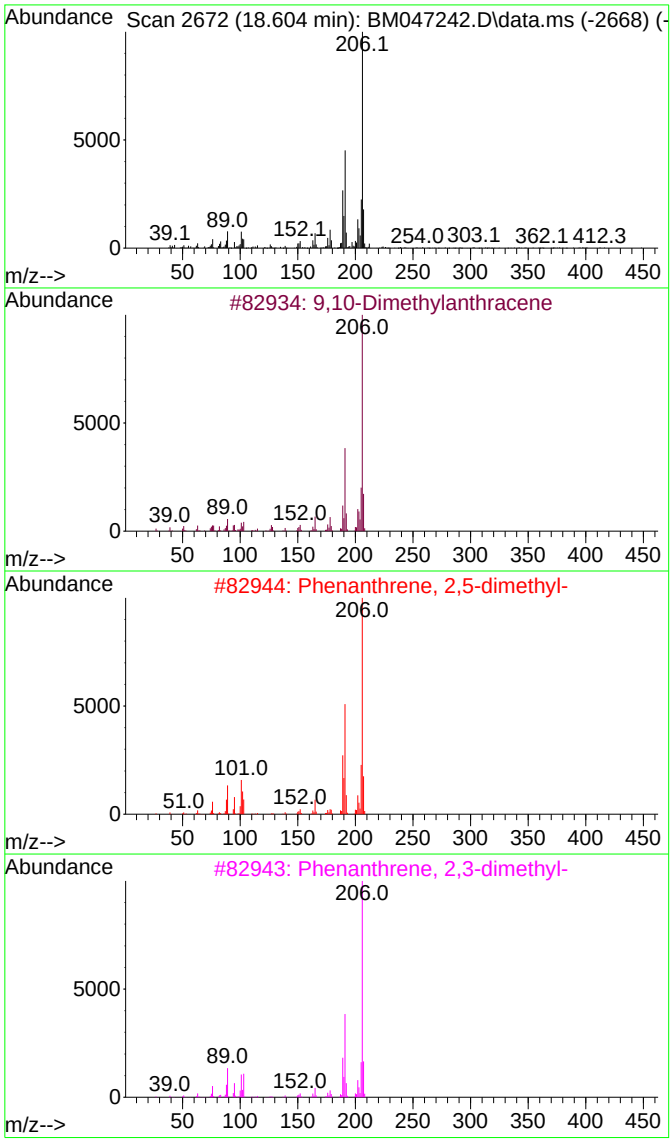
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

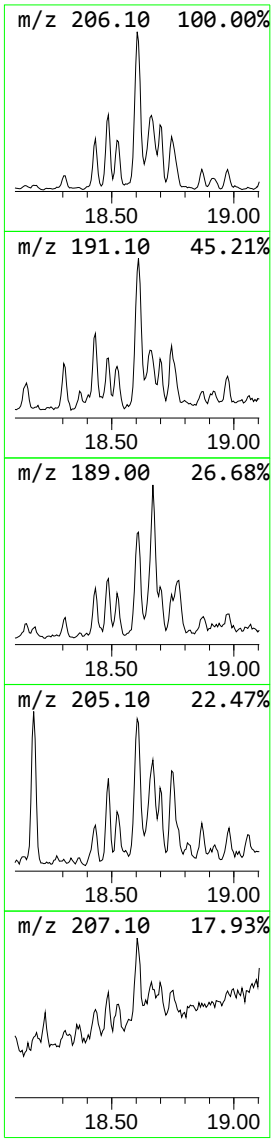
**********

Peak Number 12 9,10-Dimethylanthracene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.604 | 4.76 ng | 569281 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 96 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 93 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

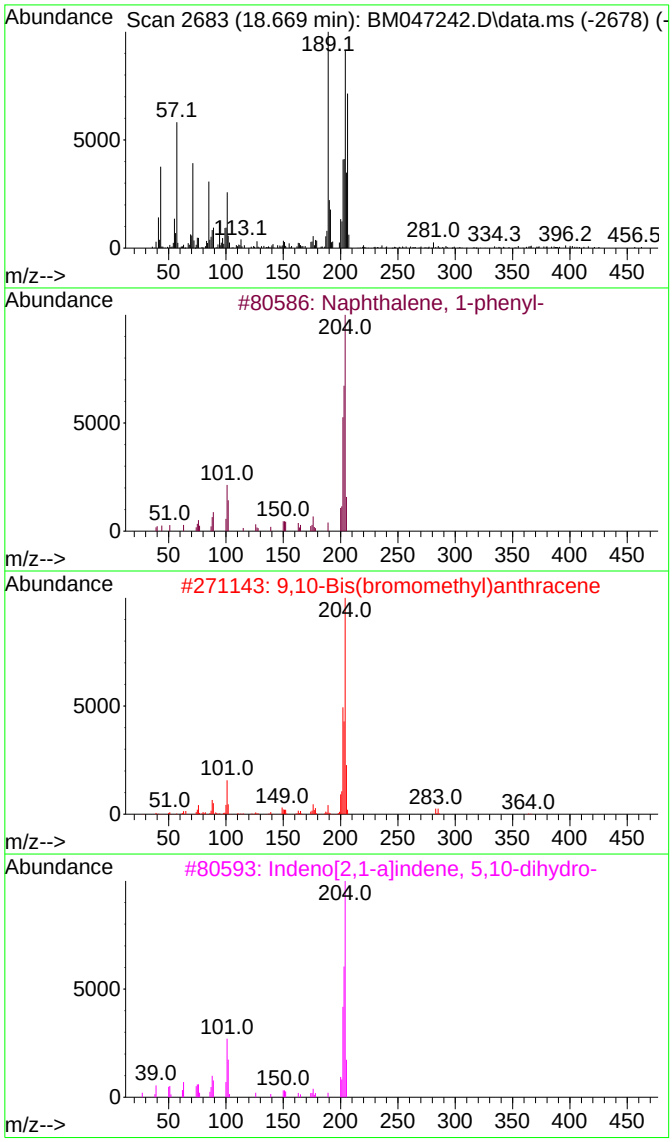
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

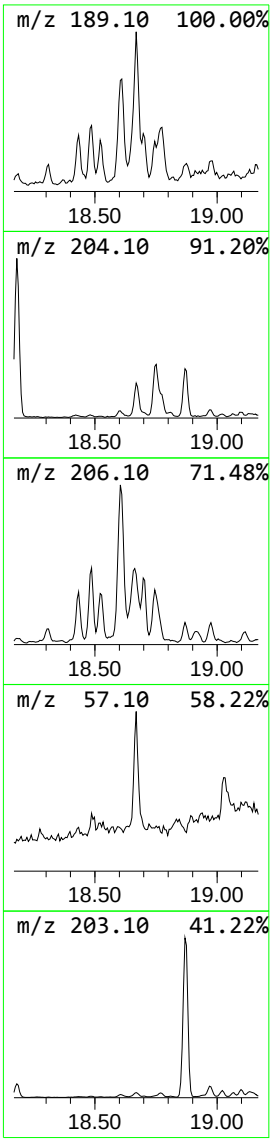
**********

Peak Number 13 unknown18.669 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.669 | 3.55 ng | 424203 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 38 |
| 2 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 38 |
| 3 | Indeno[2,1-a]indene, 5,10-dihydro- | 204 | C16H12 | 006543-29-9 | 38 |
| 4 | 9,10-di(Chloromethyl)anthracene | 274 | C16H12Cl2 | 010387-13-0 | 35 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 35 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

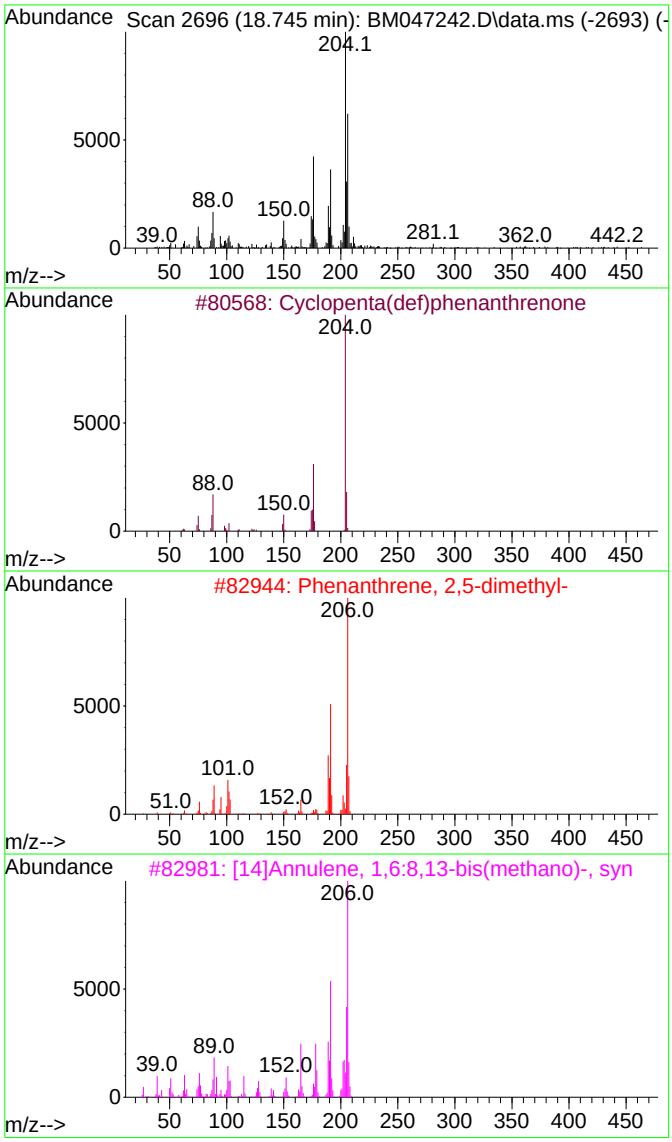
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

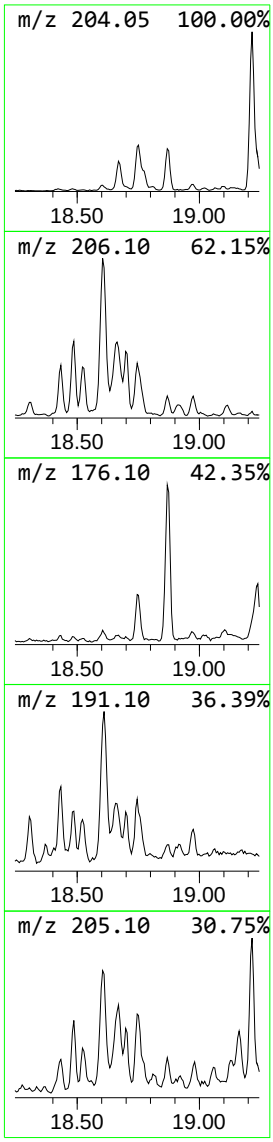
**********

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.745 | 3.41 ng | 407935 | Phenanthrene-d10 | 16.792 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 90 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 46 |
| 3 | [14]Annulene, 1,6:8,13-bis(metha... | 206 | C16H14 | 085385-68-8 | 43 |
| 4 | 3,4-Dimethylphenanthrene | 206 | C16H14 | 1000452-24-5 | 38 |
| 5 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

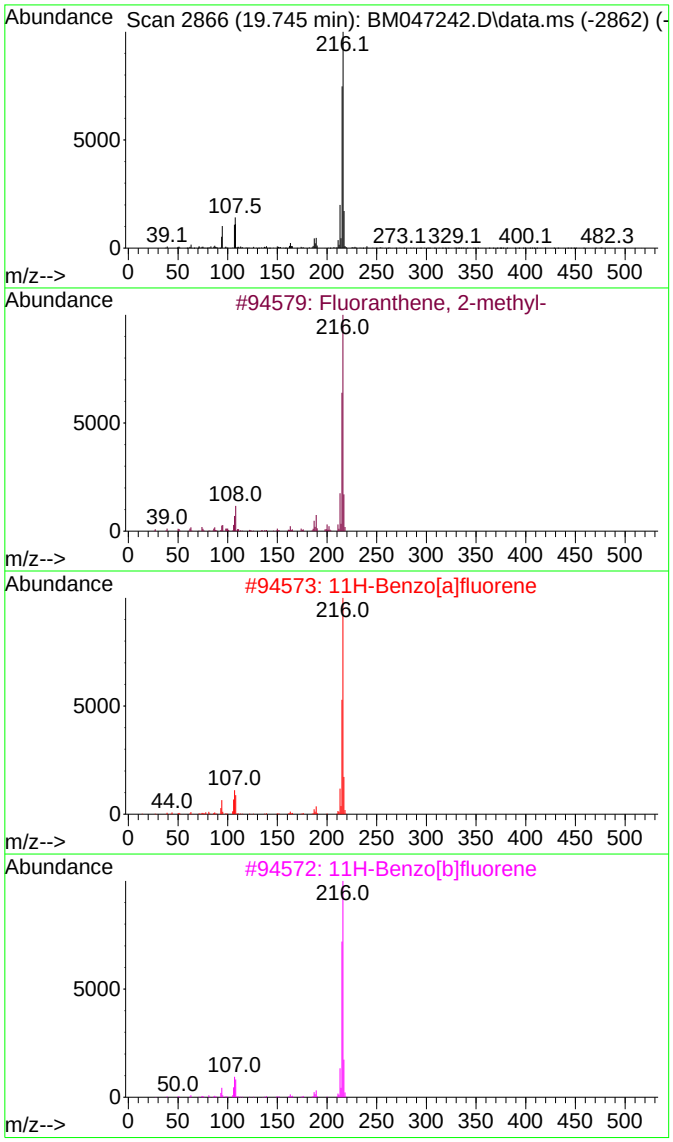
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

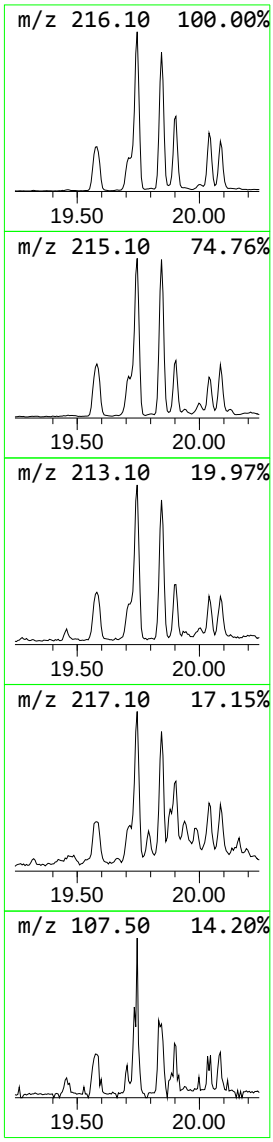
**********

Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.745 | 4.32 ng | 1218530 | Chrysene-d12 | 21.033 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 83 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

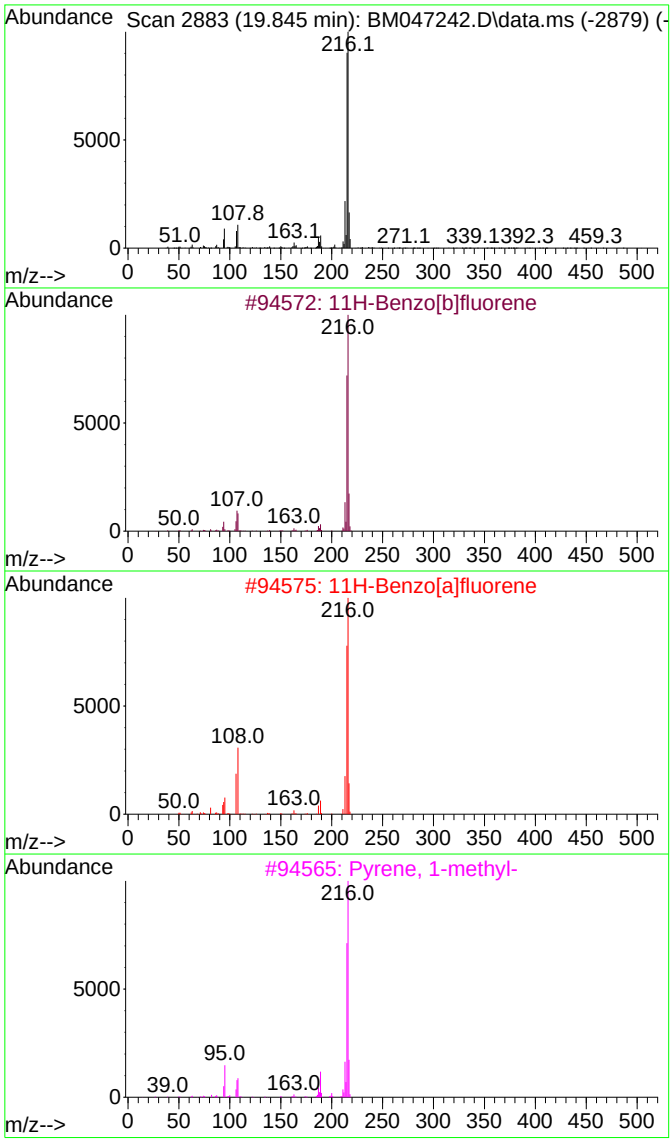
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

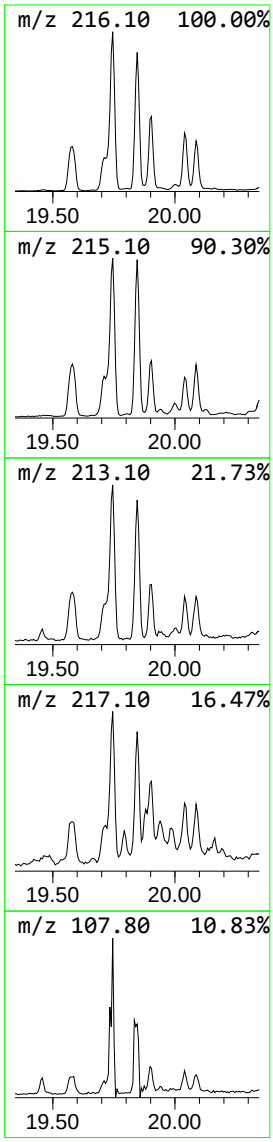
**********

Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.845 | 3.32 ng | 934887 | Chrysene-d12 | 21.033 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
Data File : BM047242.D
Acq On : 16 Aug 2024 19:52
Operator : RC/JU
Sample : P3614-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
OK-01-081424

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Naphthalene, 2,... | 13.345 | 2.5 | ng | 271396 | 3 | 14.028 | 2159710 | 20.0 |
| 9H-Fluorene, 2-... | 16.104 | 2.1 | ng | 249776 | 4 | 16.792 | 2392690 | 20.0 |
| Dibenzothiophene | 16.610 | 5.5 | ng | 659041 | 4 | 16.792 | 2392690 | 20.0 |
| 1-Methyldibenzo... | 17.375 | 2.1 | ng | 253431 | 4 | 16.792 | 2392690 | 20.0 |
| Phenanthrene, 2... | 17.669 | 6.7 | ng | 795759 | 4 | 16.792 | 2392690 | 20.0 |
| Phenanthrene, 1... | 17.722 | 10.7 | ng | 1275620 | 4 | 16.792 | 2392690 | 20.0 |
| 1H-Cyclopropa[l... | 17.798 | 3.8 | ng | 452730 | 4 | 16.792 | 2392690 | 20.0 |
| 4H-Cyclopenta[d... | 17.863 | 14.9 | ng | 1785490 | 4 | 16.792 | 2392690 | 20.0 |
| Anthracene, 1-m... | 17.898 | 4.3 | ng | 508506 | 4 | 16.792 | 2392690 | 20.0 |
| 5,16[1',2']:8,1... | 18.180 | 4.1 | ng | 494046 | 4 | 16.792 | 2392690 | 20.0 |
| 9,10-Anthracene... | 18.227 | 2.3 | ng | 277673 | 4 | 16.792 | 2392690 | 20.0 |
| 9,10-Dimethylan... | 18.604 | 4.8 | ng | 569281 | 4 | 16.792 | 2392690 | 20.0 |
| unknown18.669 | 18.669 | 3.5 | ng | 424203 | 4 | 16.792 | 2392690 | 20.0 |
| Cyclopenta(def)... | 18.745 | 3.4 | ng | 407935 | 4 | 16.792 | 2392690 | 20.0 |
| Fluoranthene, 2... | 19.745 | 4.3 | ng | 1218530 | 5 | 21.033 | 5639220 | 20.0 |
| 11H-Benzo[b]flu... | 19.845 | 3.3 | ng | 934887 | 5 | 21.033 | 5639220 | 20.0 |