LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

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_G\Methods\8270-BG031522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG053047.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.691 | 387 | 392 | 400 | rBB | 123858 | 211196 | 14.04% | 1.313% |
| 2 | 7.283 | 656 | 663 | 674 | rBV | 134548 | 245431 | 16.32% | 1.526% |
| 3 | 8.135 | 799 | 808 | 815 | rBV | 173651 | 306974 | 20.41% | 1.909% |
| 4 | 9.286 | 998 | 1004 | 1013 | rVB | 88757 | 166032 | 11.04% | 1.032% |
| 5 | 10.943 | 1277 | 1286 | 1292 | rBV | 230894 | 433601 | 28.83% | 2.696% |
| 6 | 10.990 | 1292 | 1294 | 1301 | rVB2 | 14071 | 21079 | 1.40% | 0.131% |
| 7 | 13.375 | 1693 | 1700 | 1708 | rVB | 229840 | 349285 | 23.23% | 2.172% |
| 8 | 14.749 | 1926 | 1934 | 1940 | rBV | 372026 | 581603 | 38.67% | 3.616% |
| 9 | 14.814 | 1940 | 1945 | 1950 | rVB2 | 25292 | 38283 | 2.55% | 0.238% |
| 10 | 15.143 | 1995 | 2001 | 2008 | rVB2 | 24376 | 37681 | 2.51% | 0.234% |
| 11 | 15.789 | 2105 | 2111 | 2118 | rBV3 | 29946 | 52511 | 3.49% | 0.326% |
| 12 | 16.083 | 2157 | 2161 | 2167 | rVB | 14454 | 21903 | 1.46% | 0.136% |
| 13 | 16.230 | 2178 | 2186 | 2194 | rVB | 178895 | 287066 | 19.09% | 1.785% |
| 14 | 16.794 | 2277 | 2282 | 2288 | rVB6 | 11380 | 18590 | 1.24% | 0.116% |
| 15 | 17.023 | 2312 | 2321 | 2324 | rBV5 | 12768 | 25914 | 1.72% | 0.161% |
| 16 | 17.064 | 2324 | 2328 | 2333 | rVV5 | 11130 | 21962 | 1.46% | 0.137% |
| 17 | 17.140 | 2337 | 2341 | 2349 | rVB3 | 15273 | 26866 | 1.79% | 0.167% |
| 18 | 17.223 | 2349 | 2355 | 2361 | rBV7 | 13023 | 31206 | 2.08% | 0.194% |
| 19 | 17.311 | 2365 | 2370 | 2376 | rVB | 17651 | 30666 | 2.04% | 0.191% |
| 20 | 17.493 | 2394 | 2401 | 2405 | rBV | 428304 | 695046 | 46.22% | 4.321% |
| 21 | 17.534 | 2405 | 2408 | 2414 | rVV | 337660 | 490433 | 32.61% | 3.049% |
| 22 | 17.622 | 2414 | 2423 | 2428 | rVV | 124628 | 210537 | 14.00% | 1.309% |
| 23 | 17.681 | 2428 | 2433 | 2443 | rVB3 | 27949 | 56340 | 3.75% | 0.350% |
| 24 | 17.886 | 2458 | 2468 | 2473 | rBV2 | 51093 | 114061 | 7.58% | 0.709% |
| 25 | 18.074 | 2497 | 2500 | 2507 | rVB7 | 9524 | 19024 | 1.26% | 0.118% |
| 26 | 18.215 | 2521 | 2524 | 2532 | rVB8 | 9457 | 18148 | 1.21% | 0.113% |
| 27 | 18.368 | 2540 | 2550 | 2554 | rBV | 82628 | 141480 | 9.41% | 0.880% |
| 28 | 18.415 | 2554 | 2558 | 2566 | rVV | 117599 | 174476 | 11.60% | 1.085% |
| 29 | 18.491 | 2566 | 2571 | 2577 | rVV | 62959 | 106681 | 7.09% | 0.663% |
| 30 | 18.568 | 2577 | 2584 | 2587 | rVV3 | 109048 | 219172 | 14.57% | 1.363% |
| 31 | 18.597 | 2587 | 2589 | 2596 | rVV2 | 55920 | 76914 | 5.11% | 0.478% |
| 32 | 18.662 | 2598 | 2600 | 2603 | rVV4 | 17987 | 20086 | 1.34% | 0.125% |
| 33 | 18.709 | 2604 | 2608 | 2612 | rVB4 | 14150 | 20404 | 1.36% | 0.127% |
| 34 | 18.856 | 2627 | 2633 | 2637 | rBV | 50368 | 82348 | 5.48% | 0.512% |
| 35 | 18.897 | 2637 | 2640 | 2644 | rVB3 | 20055 | 27083 | 1.80% | 0.168% |
| 36 | 18.979 | 2651 | 2654 | 2660 | rBV3 | 10457 | 19882 | 1.32% | 0.124% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

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_G\Methods\8270-BG031522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 19.102 | 2672 | 2675 | 2680 | rVB5 | 31951 | 44413 | 2.95% | 0.276% |
| 38 | 19.155 | 2681 | 2684 | 2687 | rBV2 | 15986 | 21621 | 1.44% | 0.134% |
| 39 | 19.191 | 2688 | 2690 | 2696 | rVB2 | 17260 | 18793 | 1.25% | 0.117% |
| 40 | 19.273 | 2699 | 2704 | 2709 | rBV | 51020 | 102472 | 6.81% | 0.637% |
| 41 | 19.343 | 2713 | 2716 | 2718 | rBV4 | 25013 | 28400 | 1.89% | 0.177% |
| 42 | 19.414 | 2724 | 2728 | 2738 | rVB5 | 41909 | 79472 | 5.28% | 0.494% |
| 43 | 19.537 | 2744 | 2749 | 2755 | rBV | 598273 | 873210 | 58.06% | 5.429% |
| 44 | 19.596 | 2756 | 2759 | 2762 | rVB4 | 18922 | 24043 | 1.60% | 0.149% |
| 45 | 19.637 | 2762 | 2766 | 2770 | rBV3 | 27181 | 40227 | 2.67% | 0.250% |
| 46 | 19.866 | 2800 | 2805 | 2807 | rBV | 159710 | 235170 | 15.64% | 1.462% |
| 47 | 19.901 | 2807 | 2811 | 2819 | rVV | 598447 | 980988 | 65.23% | 6.099% |
| 48 | 19.966 | 2819 | 2822 | 2830 | rVB3 | 57719 | 101180 | 6.73% | 0.629% |
| 49 | 20.089 | 2837 | 2843 | 2848 | rBV2 | 296583 | 434907 | 28.92% | 2.704% |
| 50 | 20.136 | 2848 | 2851 | 2857 | rVB | 57154 | 89406 | 5.94% | 0.556% |
| 51 | 20.219 | 2860 | 2865 | 2872 | rBV3 | 68541 | 175594 | 11.68% | 1.092% |
| 52 | 20.389 | 2890 | 2894 | 2899 | rVB | 170181 | 253060 | 16.83% | 1.573% |
| 53 | 20.436 | 2899 | 2902 | 2904 | rBV4 | 16474 | 20950 | 1.39% | 0.130% |
| 54 | 20.489 | 2907 | 2911 | 2915 | rVV | 119242 | 174525 | 11.60% | 1.085% |
| 55 | 20.547 | 2915 | 2921 | 2925 | rVV2 | 104146 | 211135 | 14.04% | 1.313% |
| 56 | 20.589 | 2925 | 2928 | 2930 | rVV3 | 20618 | 20032 | 1.33% | 0.125% |
| 57 | 20.688 | 2942 | 2945 | 2948 | rBV2 | 57839 | 77963 | 5.18% | 0.485% |
| 58 | 20.735 | 2950 | 2953 | 2961 | rVB2 | 71521 | 113891 | 7.57% | 0.708% |
| 59 | 21.117 | 3014 | 3018 | 3020 | rBV4 | 31754 | 43509 | 2.89% | 0.271% |
| 60 | 21.158 | 3022 | 3025 | 3031 | rVB3 | 65419 | 111228 | 7.40% | 0.692% |
| 61 | 21.393 | 3061 | 3065 | 3069 | rVB | 78476 | 118997 | 7.91% | 0.740% |
| 62 | 21.446 | 3069 | 3074 | 3078 | rBV4 | 66017 | 111418 | 7.41% | 0.693% |
| 63 | 21.764 | 3122 | 3128 | 3135 | rBV2 | 590523 | 1503897 | 100.00% | 9.350% |
| 64 | 21.828 | 3135 | 3139 | 3151 | rVB | 376552 | 692456 | 46.04% | 4.305% |
| 65 | 21.981 | 3161 | 3165 | 3171 | rBV4 | 63471 | 116817 | 7.77% | 0.726% |
| 66 | 22.192 | 3196 | 3201 | 3207 | rBV2 | 74195 | 165658 | 11.02% | 1.030% |
| 67 | 22.527 | 3254 | 3258 | 3263 | rVB | 116770 | 211670 | 14.07% | 1.316% |
| 68 | 22.598 | 3268 | 3270 | 3279 | rVB2 | 78603 | 118805 | 7.90% | 0.739% |
| 69 | 24.037 | 3507 | 3515 | 3523 | rBV | 272067 | 992214 | 65.98% | 6.169% |
| 70 | 24.301 | 3555 | 3560 | 3568 | rVB | 95056 | 221642 | 14.74% | 1.378% |
| 71 | 24.507 | 3590 | 3595 | 3596 | rBV5 | 36244 | 57218 | 3.80% | 0.356% |
| 72 | 24.783 | 3635 | 3642 | 3653 | rVB2 | 196091 | 619460 | 41.19% | 3.851% |
| 73 | 24.930 | 3658 | 3667 | 3680 | rVB | 326846 | 938197 | 62.38% | 5.833% |
| 74 | 25.088 | 3686 | 3694 | 3702 | rBV3 | 181781 | 539315 | 35.86% | 3.353% |

Sum of corrected areas: 16083917

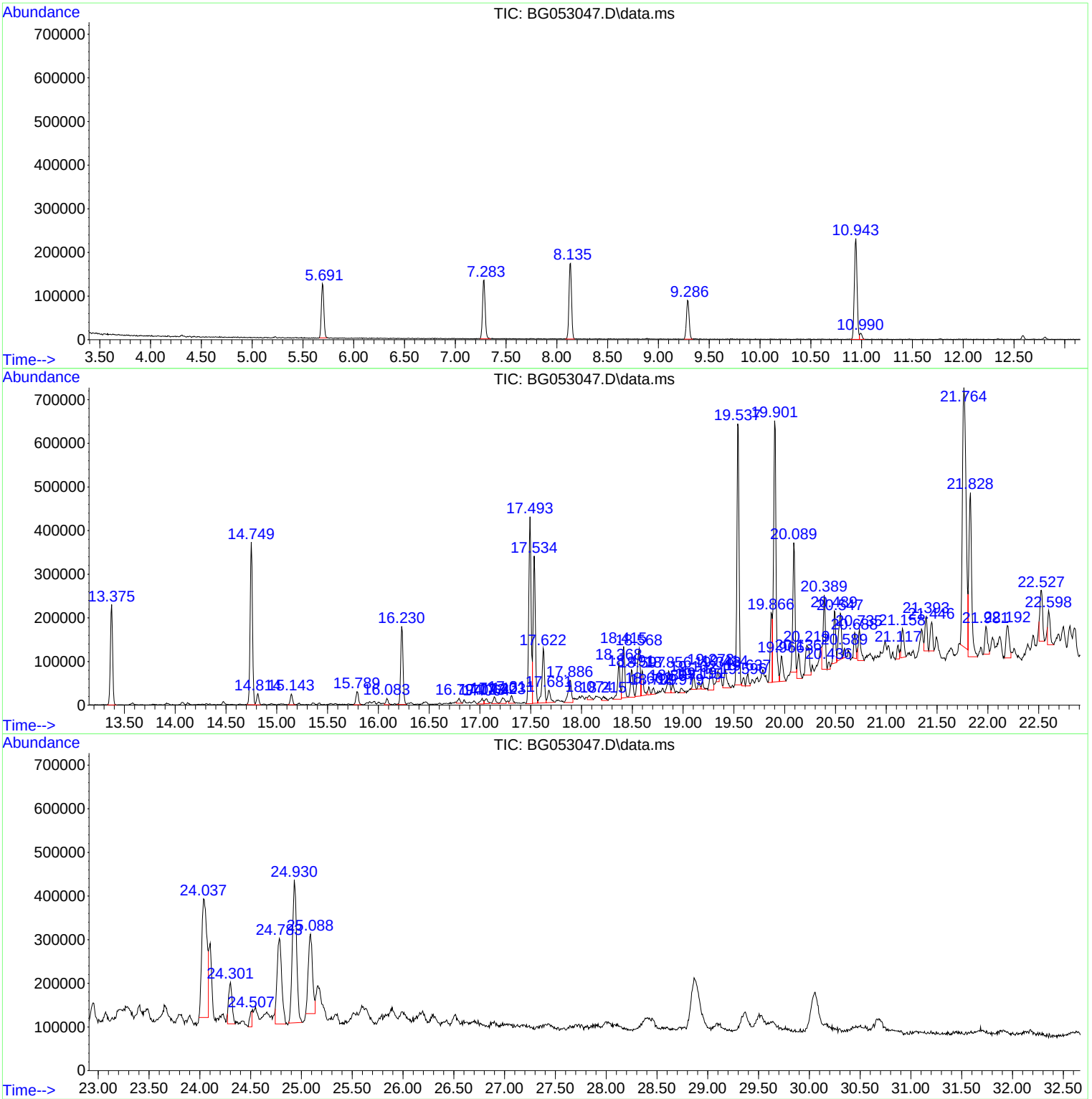
**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.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_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

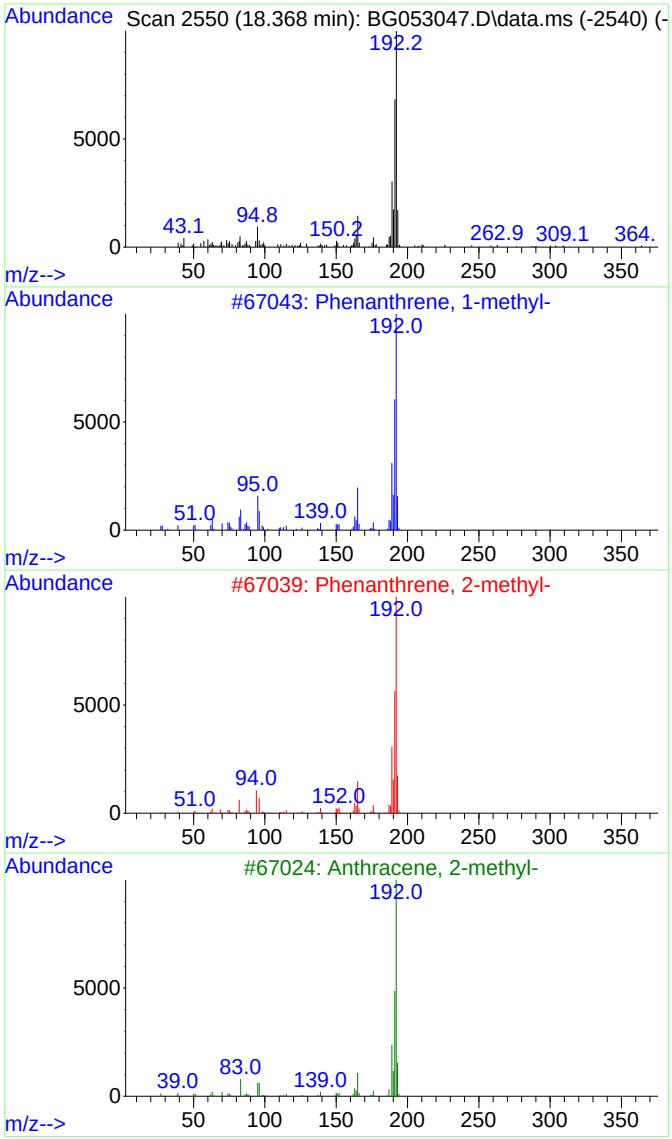
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

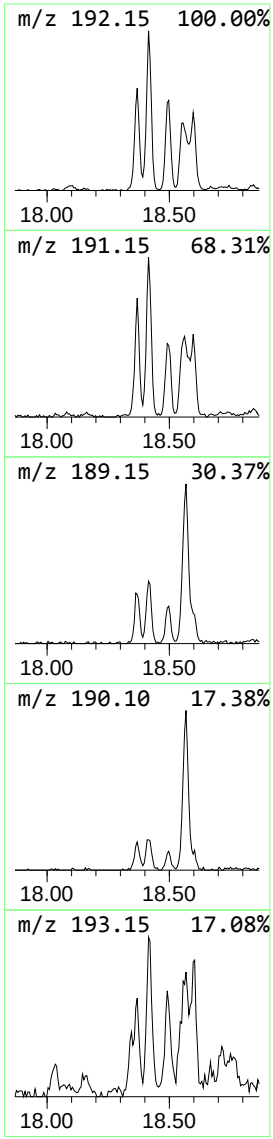
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.368 | 4.07 ng | 141480 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 90 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

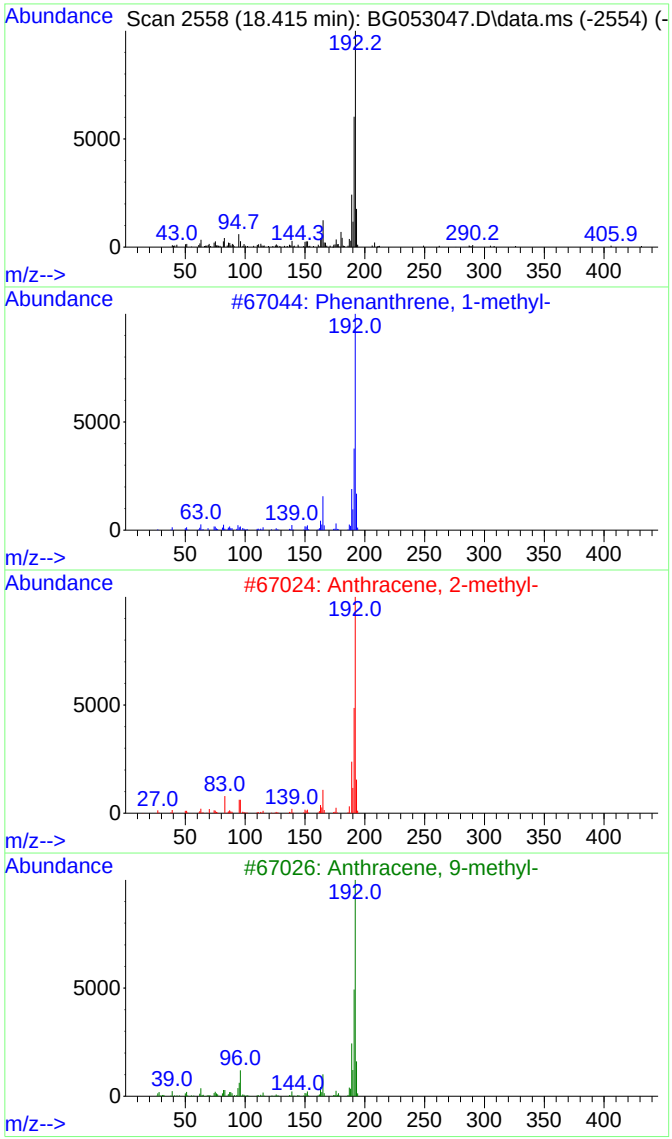
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

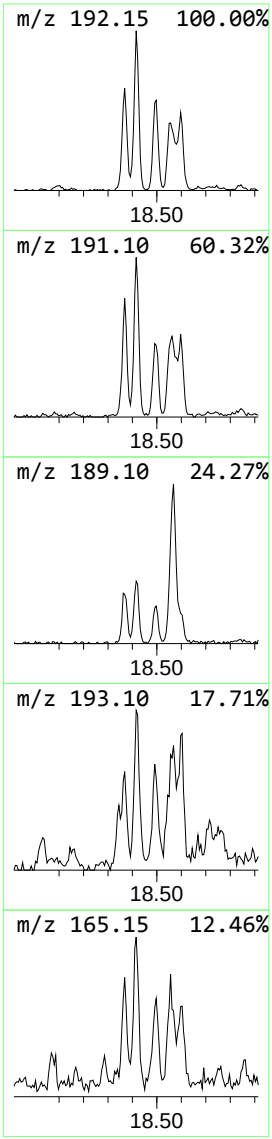
**********

Peak Number 2 Anthracene, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.415 | 5.02 ng | 174476 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 93 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

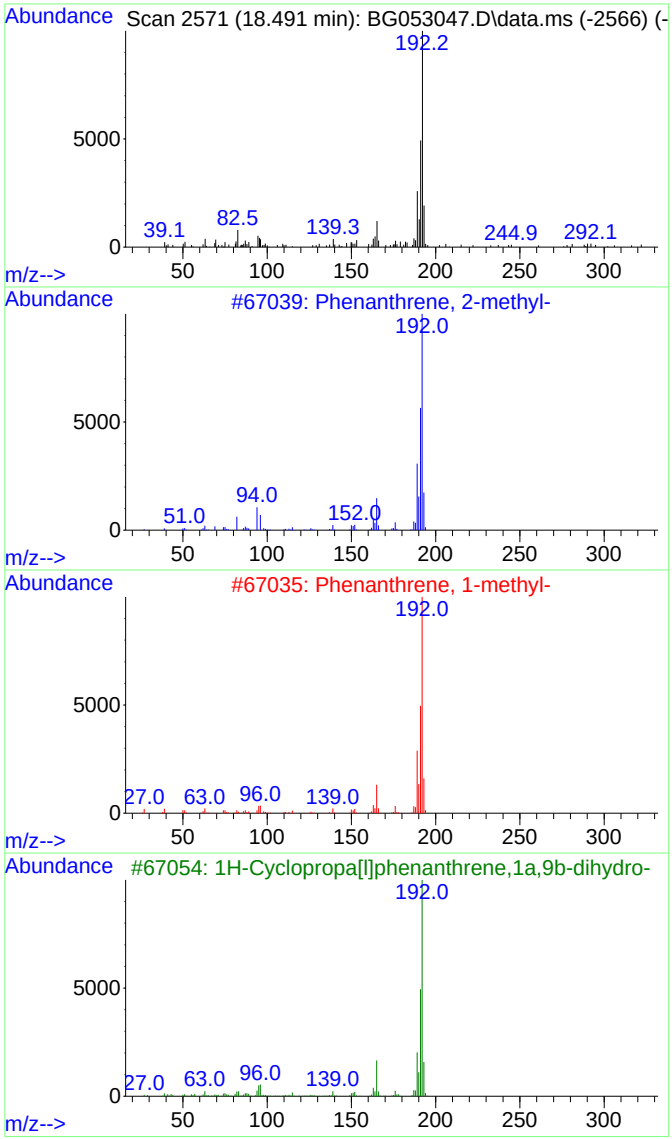
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

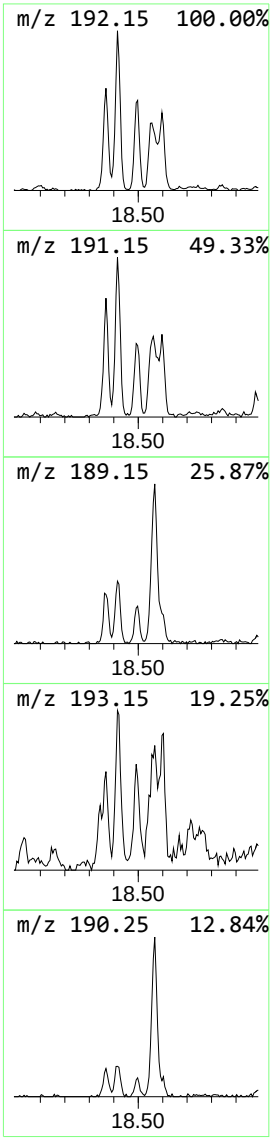
**********

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.491 | 3.07 ng | 106681 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 94 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 94 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

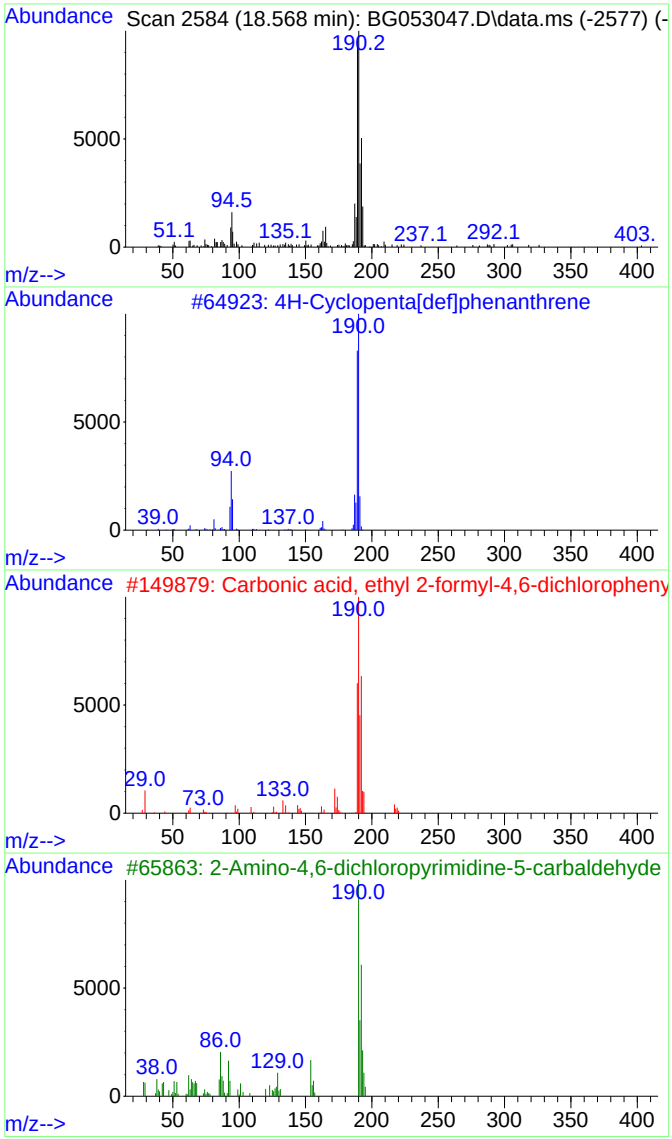
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

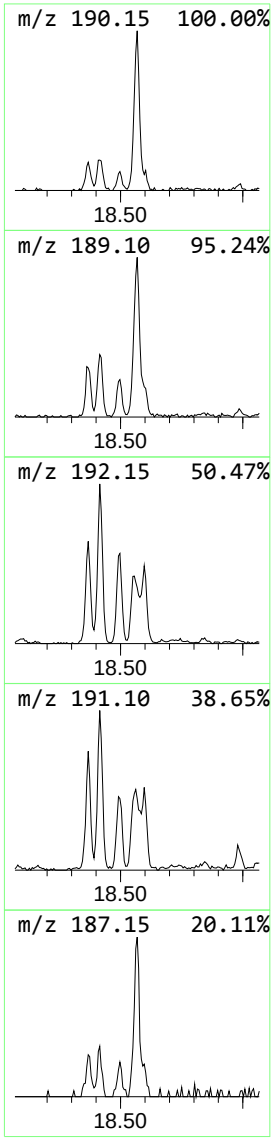
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.568 | 6.31 ng | 219172 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 62 |
| 2 | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 50 |
| 3 | 2-Amino-4,6-dichloropyrimidine-5... | 191 | C5H3Cl2N3O | 005604-46-6 | 43 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 43 |
| 5 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

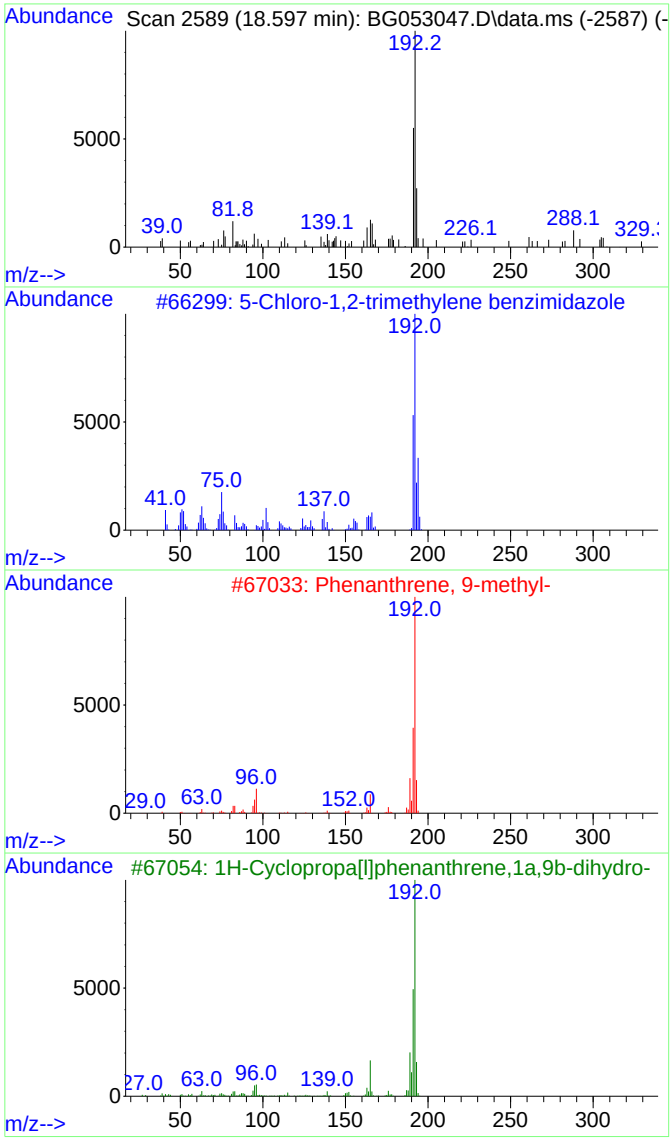
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

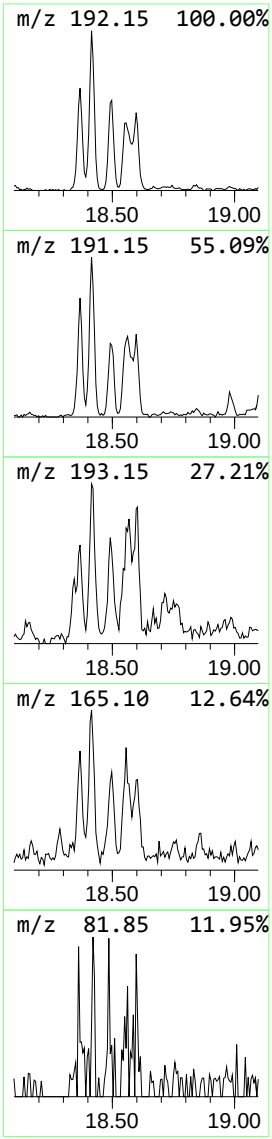
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 5-Chloro-1,2-trimethylene b... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.597 | 2.21 ng | 76914 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Chloro-1,2-trimethylene benzim... | 192 | C10H9ClN2 | 010252-95-6 | 72 |
| 2 | Phenanthrene, 9-methyl- | 192 | C15H12 | 000883-20-5 | 64 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 64 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 64 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

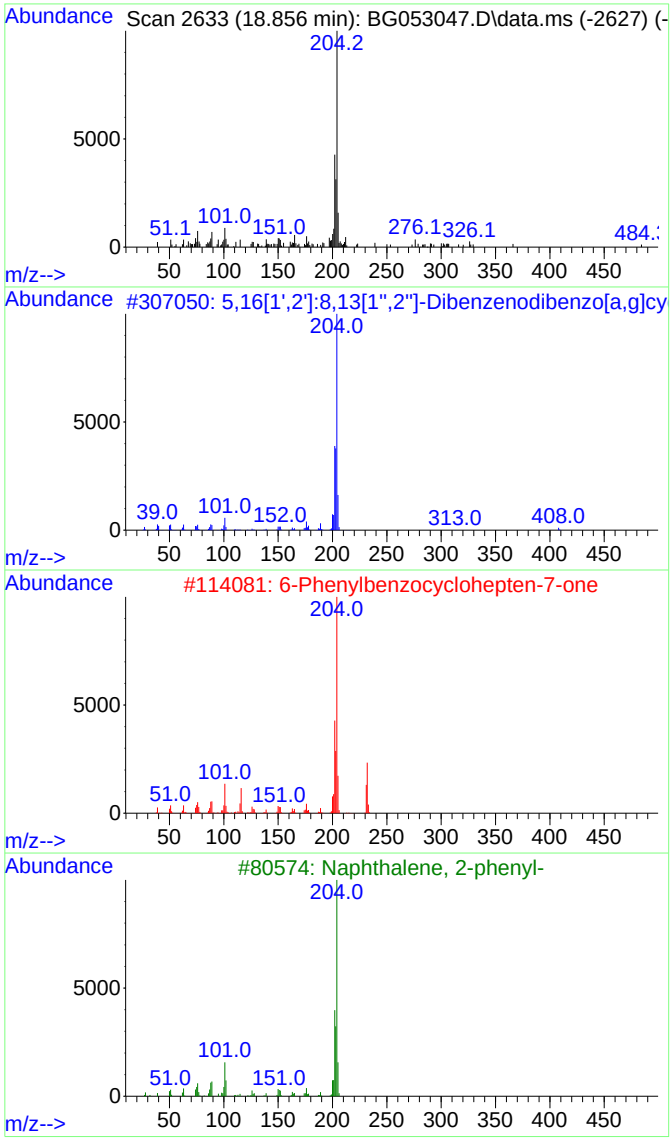
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

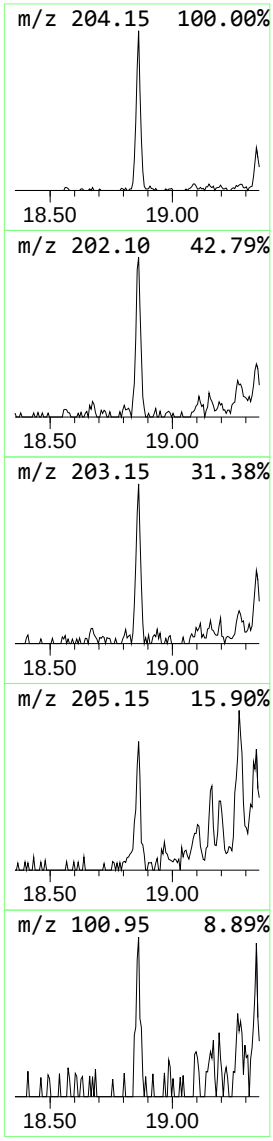
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.856 | 2.37 ng | 82348 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 83 |
| 2 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 80 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 4 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 53 |
| 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 52 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

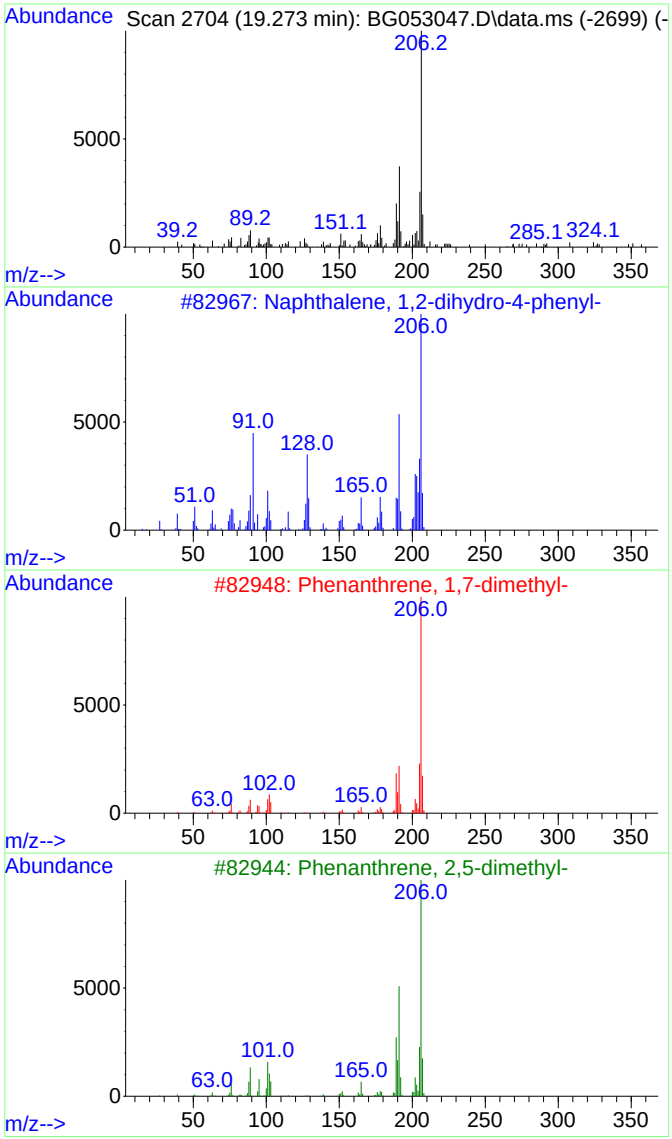
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

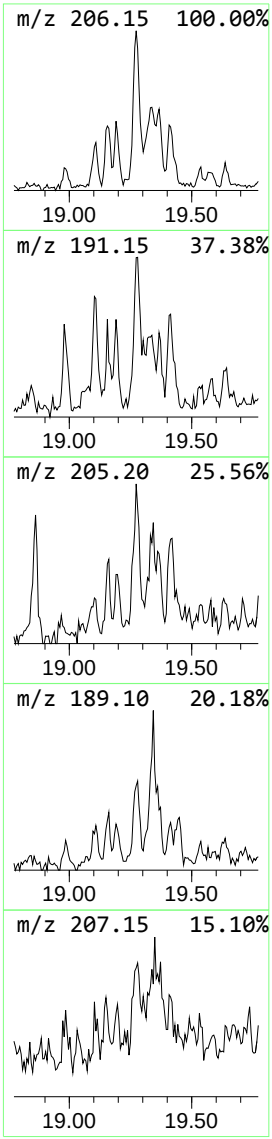
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Naphthalene, 1,2-dihydro-4-... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.273 | 2.95 ng | 102472 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 93 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 3 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 91 |
| 5 | 3,4-Dimethylphenanthrene | 206 | C16H14 | 1000452-24-5 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

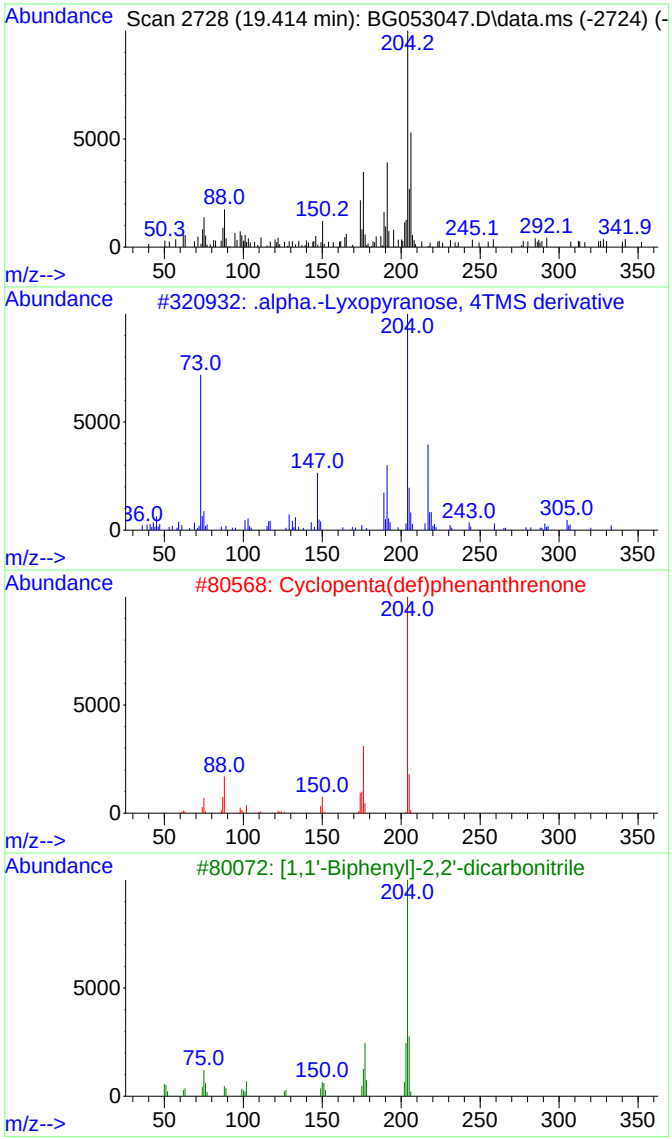
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

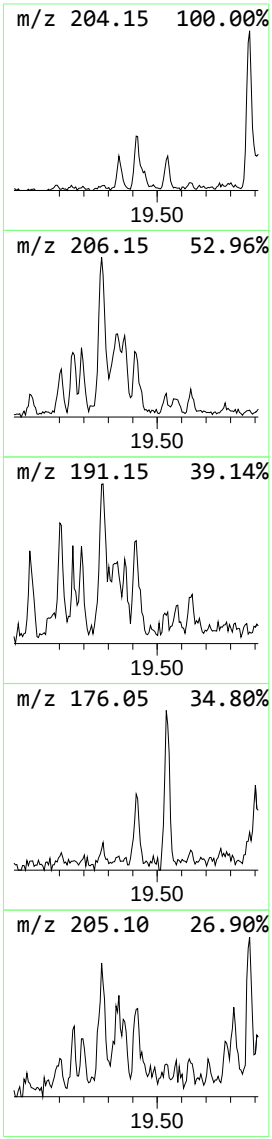
**********

Peak Number 8 unknown19.414 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.414 | 2.29 ng | 79472 | Phenanthrene-d10 | 17.493 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Lyxopyranose, 4TMS deriv... | 438 | C17H42O5Si4 | 056271-67-1 | 47 |
| 2 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 43 |
| 3 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 41 |
| 4 | Benzene, 1-chloro-4-phenoxy- | 204 | C12H9ClO | 007005-72-3 | 35 |
| 5 | 4-(p-Anisidino)-3-pyrrolin-2-one | 204 | C11H12N2O2 | 1000260-86-2 | 35 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

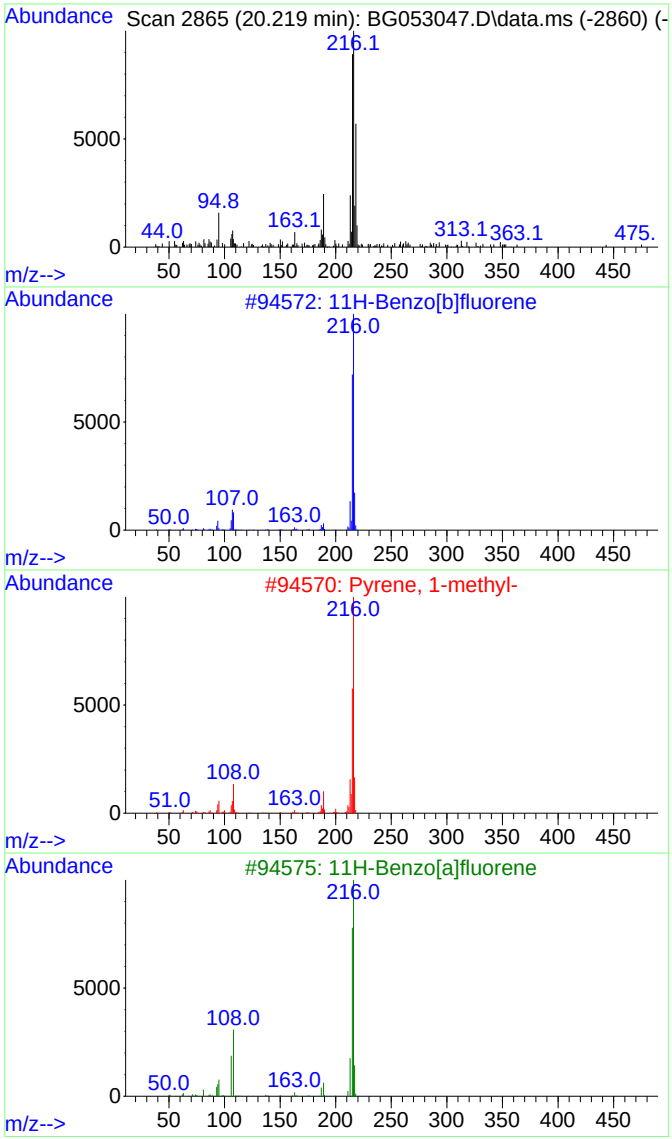
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

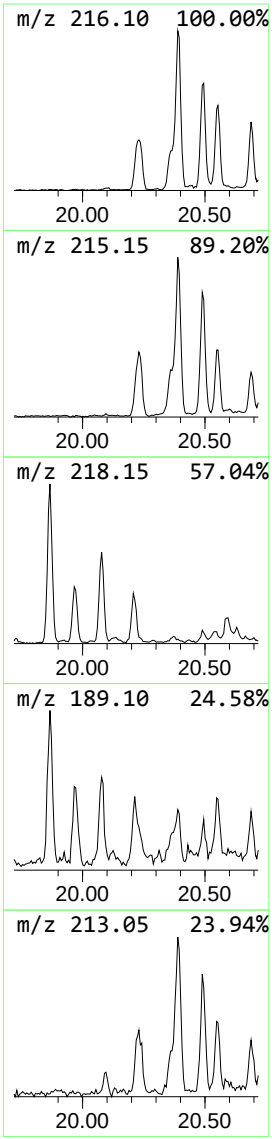
**********

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.218 | 2.34 ng | 175594 | Chrysene-d12 | 21.775 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 89 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 81 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 76 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 76 |
| 5 | 2H-Benzimidazol-2-one, 6,7-dichl... | 216 | C8H6Cl2N2O | 077572-79-3 | 52 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

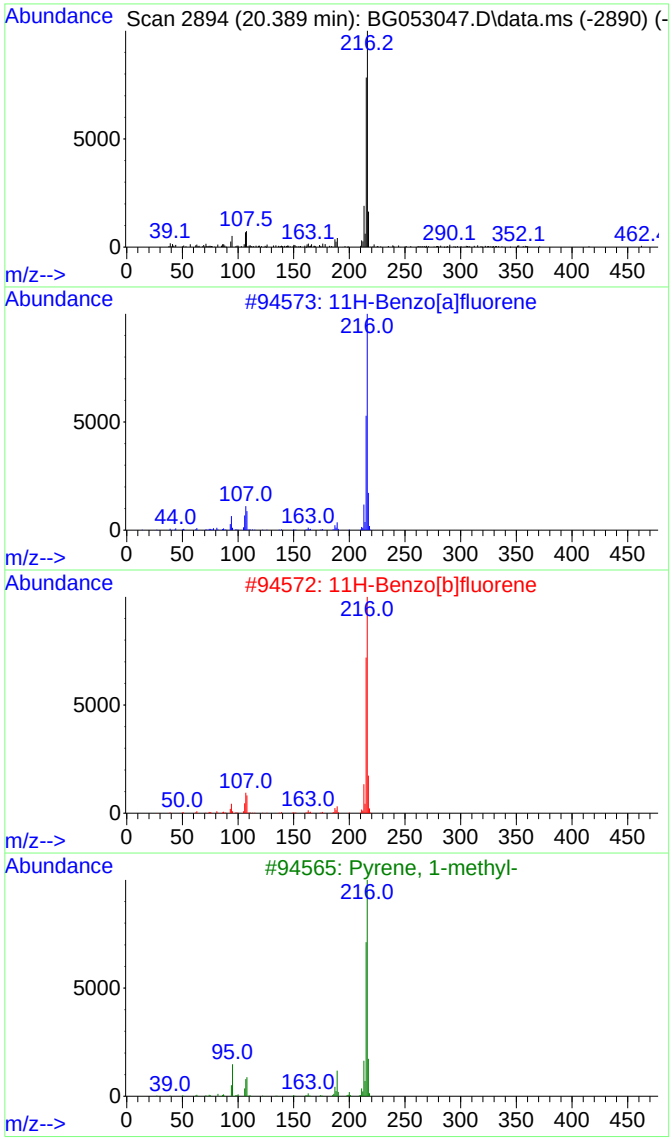
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

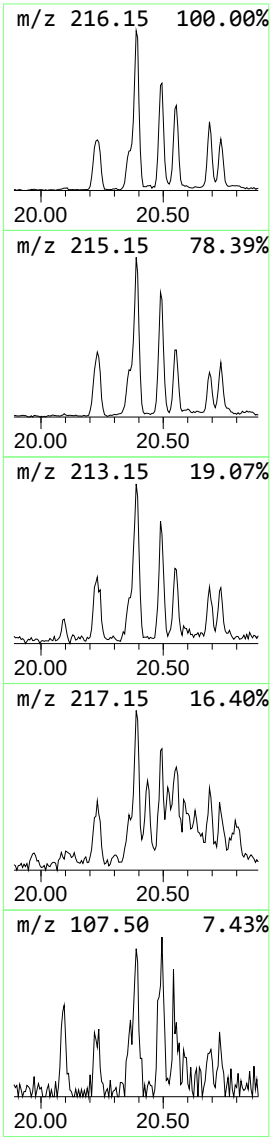
**********

Peak Number 10 11H-Benzo[a]fluorene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.389 | 3.37 ng | 253060 | Chrysene-d12 | 21.775 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 72 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

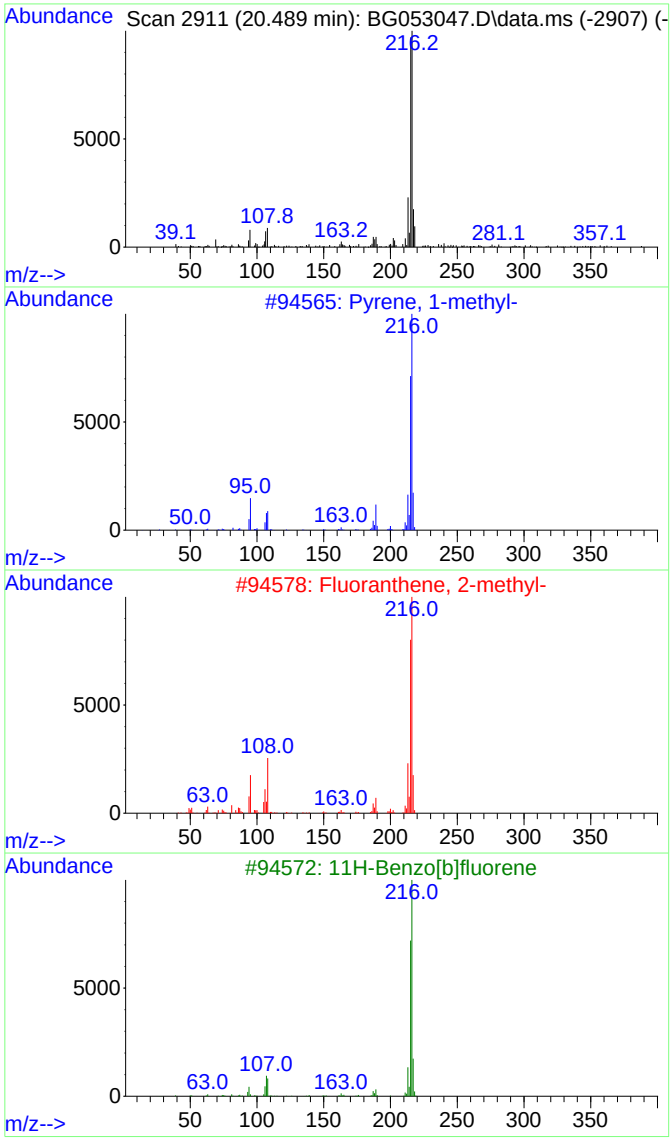
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

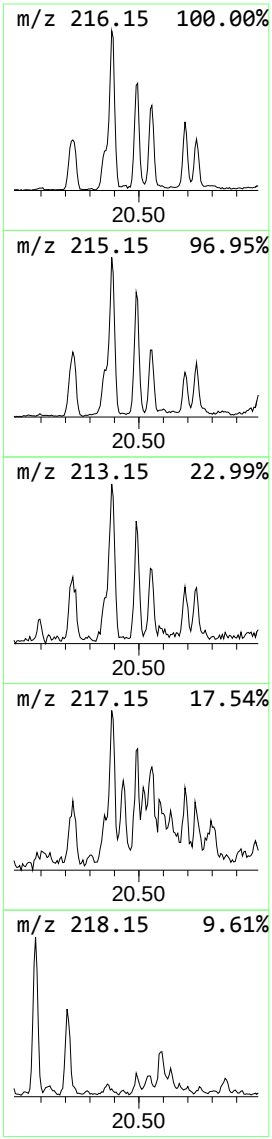
**********

Peak Number 11 Pyrene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.489 | 2.32 ng | 174525 | Chrysene-d12 | 21.775 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 83 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 80 |
| 5 | Pyridin-3-ol, 2-(4-nitrophenyl)- | 216 | C11H8N2O3 | 030820-89-4 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

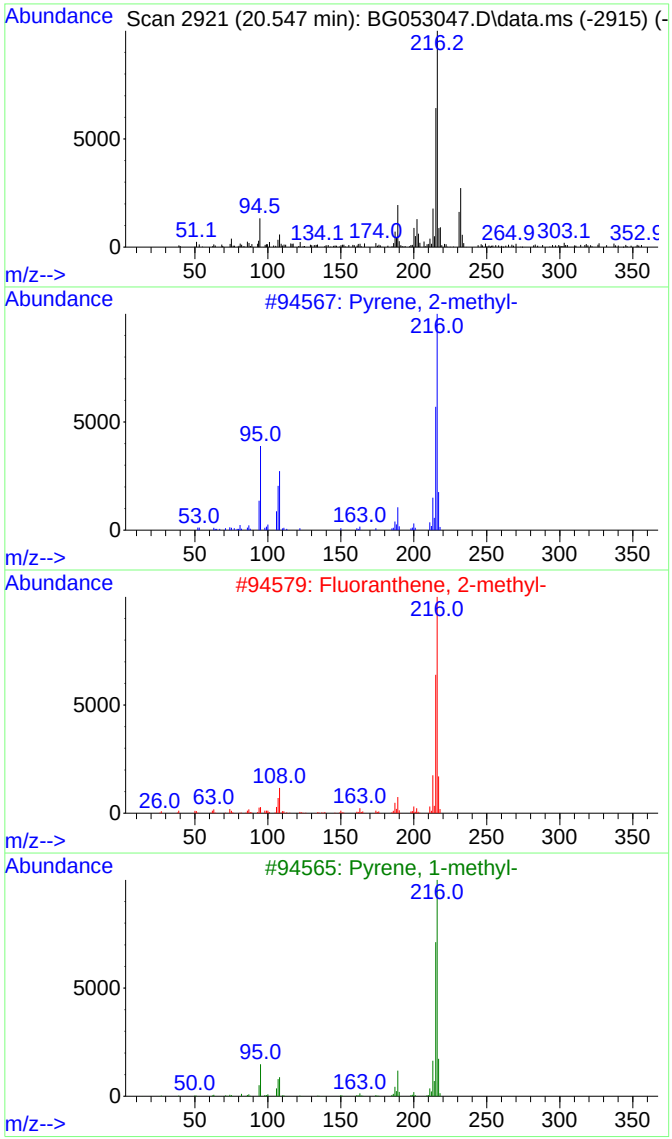
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

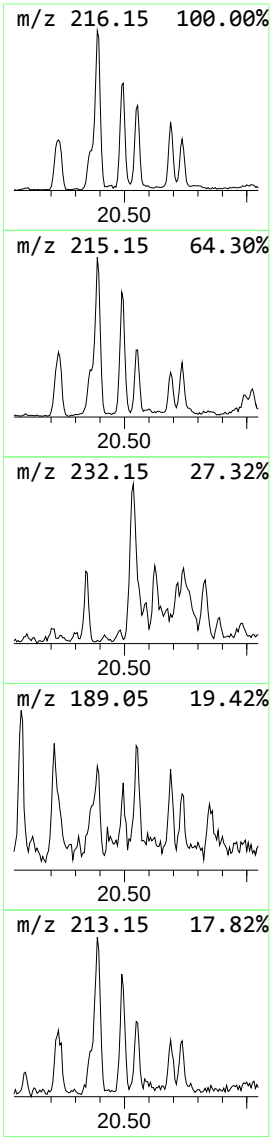
**********

Peak Number 12 Pyrene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.547 | 2.81 ng | 211135 | Chrysene-d12 | 21.775 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 64 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 58 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 53 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 52 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

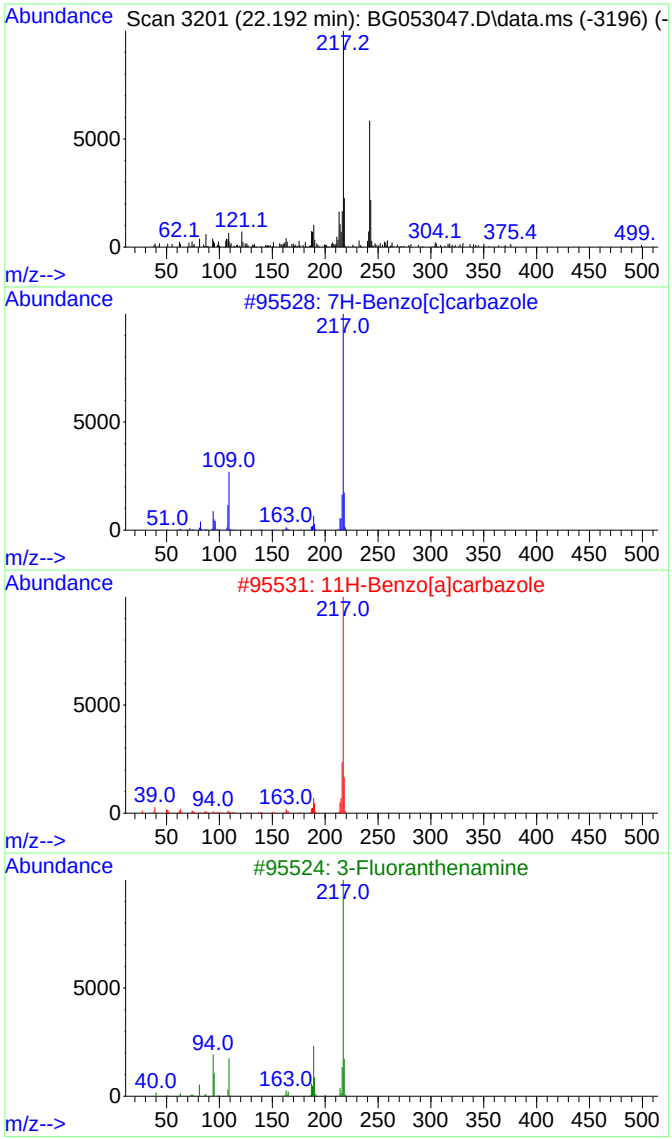
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

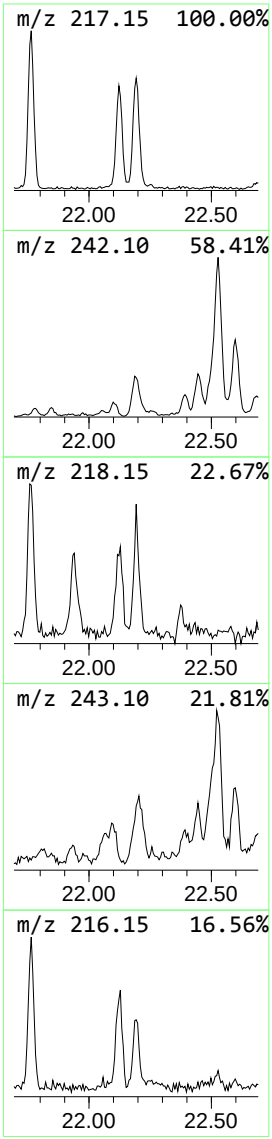
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 7H-Benzo[c]carbazole Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.192 | 2.20 ng | 165658 | Chrysene-d12 | 21.775 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7H-Benzo[c]carbazole | 217 | C16H11N | 000205-25-4 | 50 |
| 2 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 49 |
| 3 | 3-Fluoranthenamine | 217 | C16H11N | 002693-46-1 | 46 |
| 4 | Benzo(b)carbazole | 217 | C16H11N | 000243-28-7 | 46 |
| 5 | 1-Aminopyrene | 217 | C16H11N | 001606-67-3 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

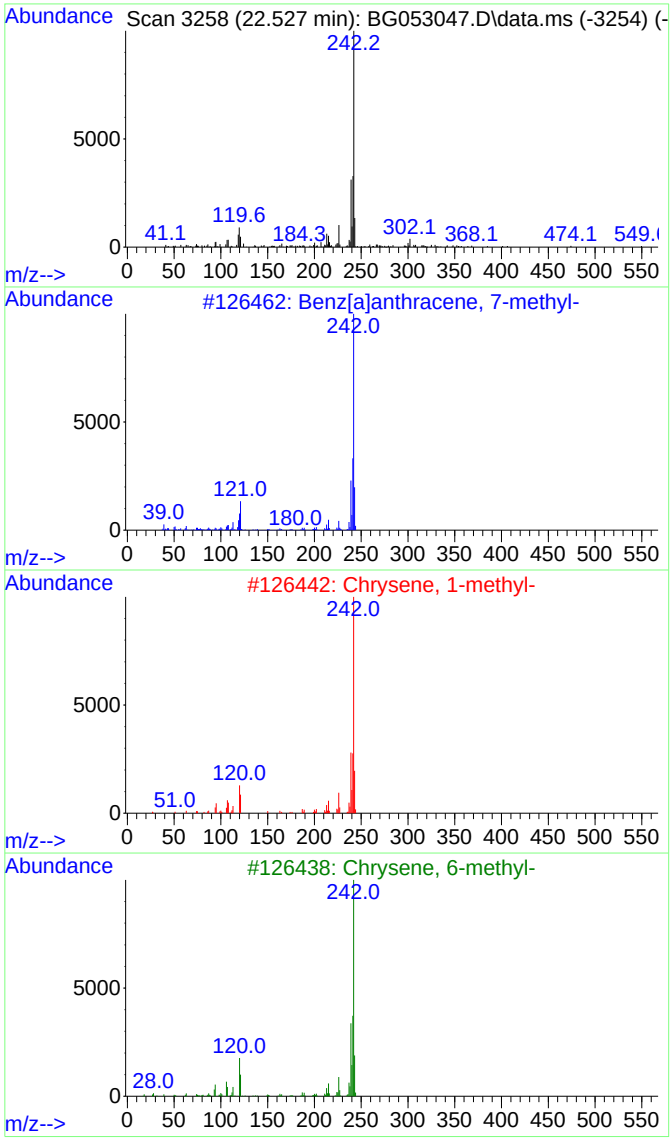
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

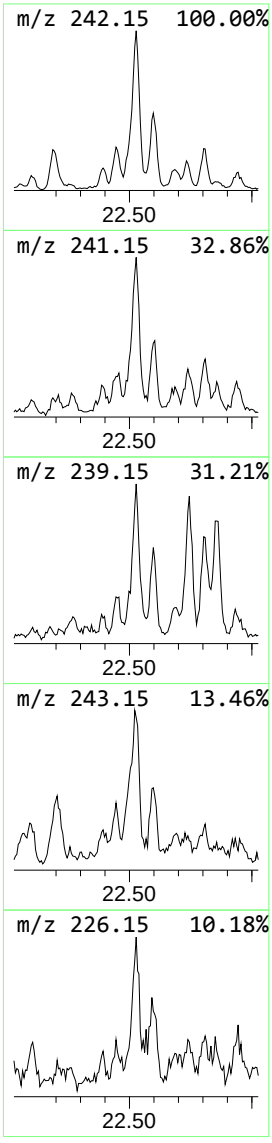
**********

Peak Number 14 Benz[a]anthracene, 7-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.527 | 2.81 ng | 211670 | Chrysene-d12 | 21.775 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 76 |
| 2 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 70 |
| 3 | Chrysene, 6-methyl- | 242 | C19H14 | 001705-85-7 | 64 |
| 4 | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 62 |
| 5 | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 59 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

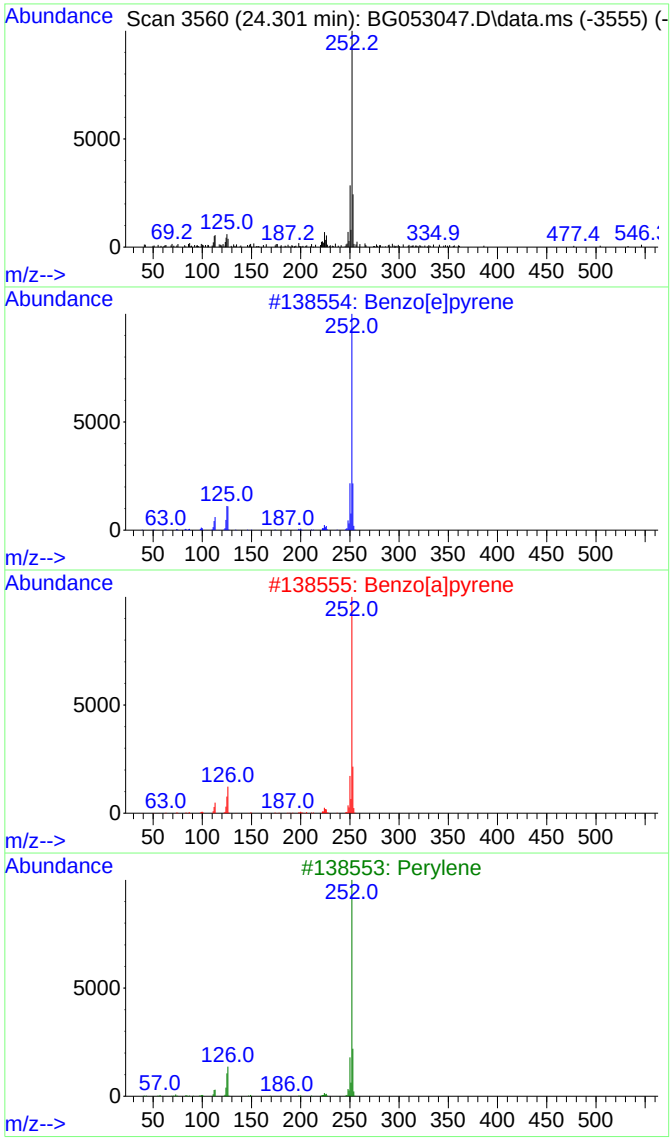
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

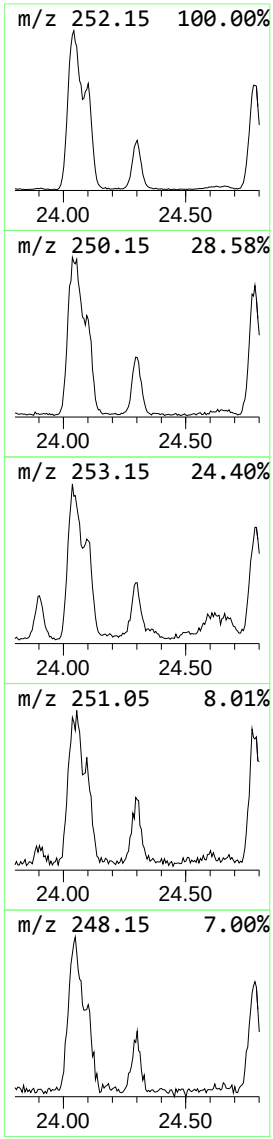
**********

Peak Number 15 Benzo[e]pyrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.301 | 8.22 ng | 221642 | Perylene-d12 | 25.088 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 76 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 68 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 64 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 64 |
| 5 | Benzo[b]naphtho[2,3-d]thiophene,... | 252 | C17H16S | 024964-06-5 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

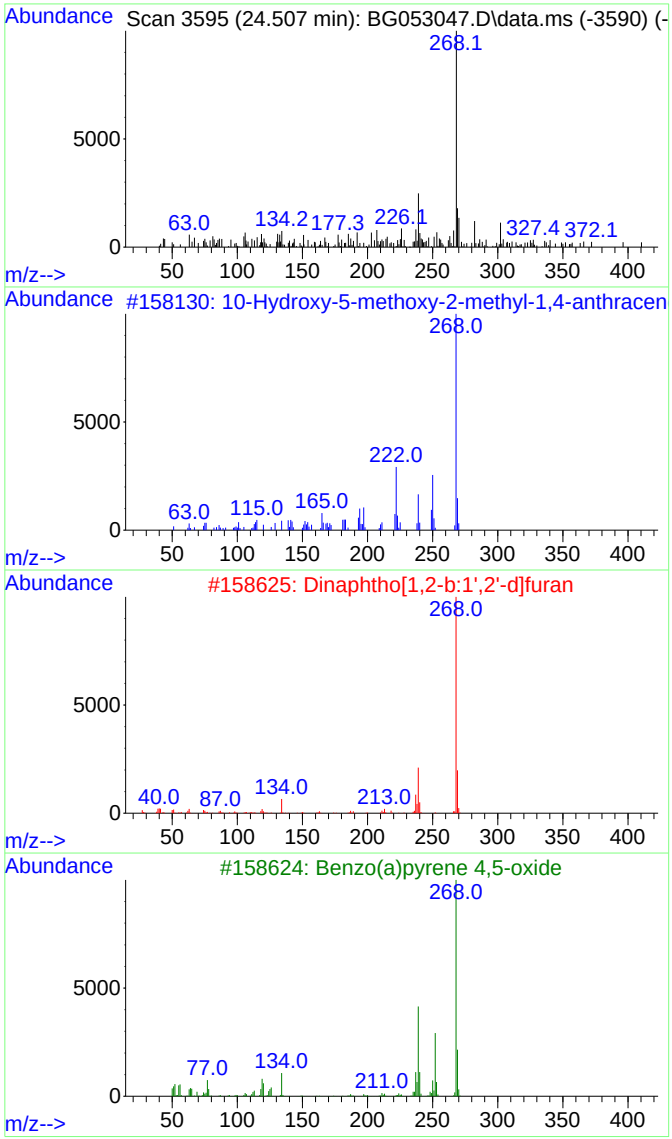
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

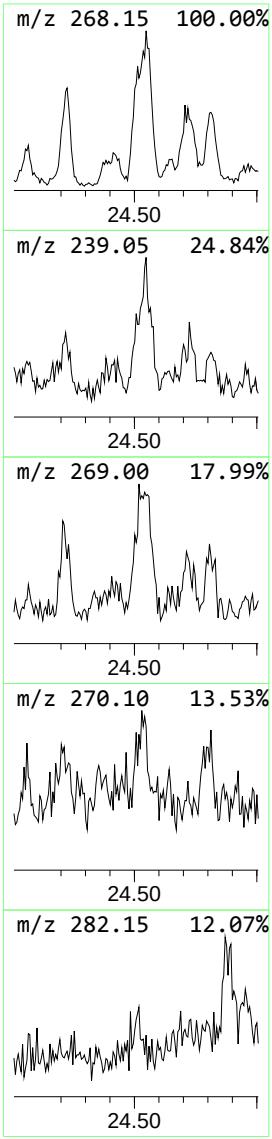
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 10-Hydroxy-5-methoxy-2-meth... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.507 | 2.12 ng | 57218 | Perylene-d12 | 25.088 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10-Hydroxy-5-methoxy-2-methyl-1,... | 268 | C16H12O4 | 084542-45-0 | 53 |
| 2 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 52 |
| 3 | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 50 |
| 4 | Benzo(a)pyren-7-ol | 268 | C20H12O | 037994-82-4 | 50 |
| 5 | Benzo[c]pyren-6,7-diol, 4,5-dihy... | 433 | C29H23NO3 | 1000124-59-9 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

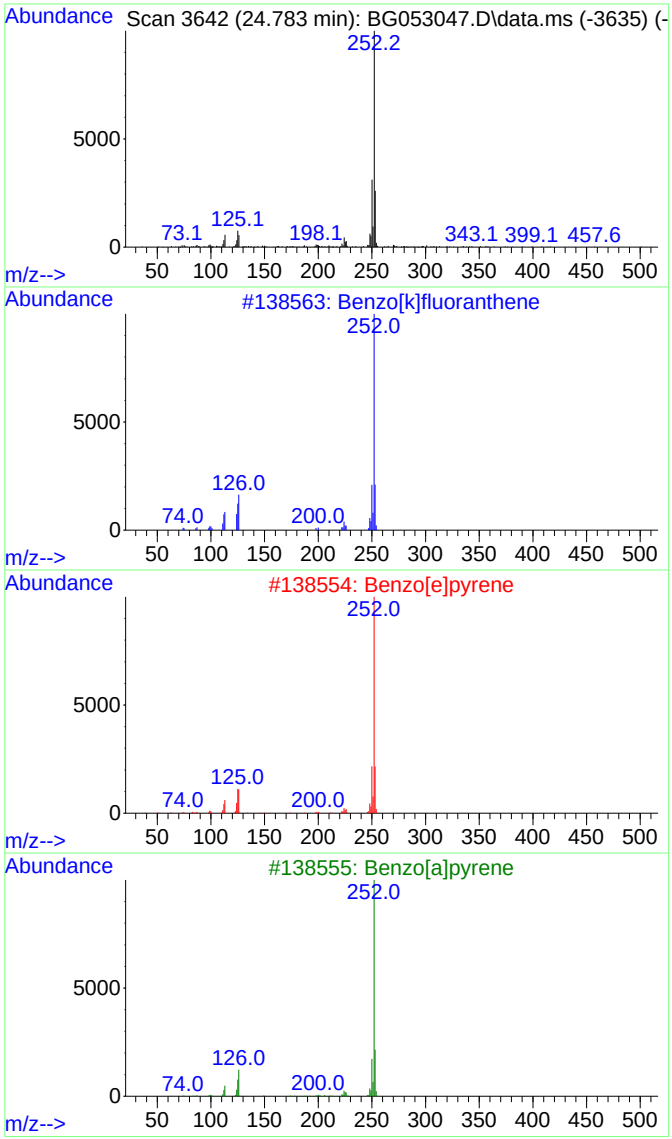
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

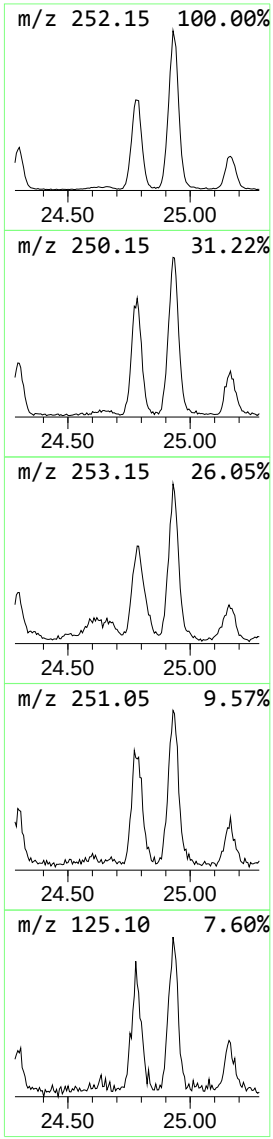
**********

Peak Number 17 Perylene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.783 | 22.97 ng | 619460 | Perylene-d12 | 25.088 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 95 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 81 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 74 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
Data File : BG053047.D
Acq On : 6 Apr 2022 1:02
Operator : CG/JU
Sample : N2257-09 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.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 |
| Phenanthrene, 1... | 18.368 | 4.1 | ng | 141480 | 4 | 17.493 | 695046 | 20.0 |
| Anthracene, 2-m... | 18.415 | 5.0 | ng | 174476 | 4 | 17.493 | 695046 | 20.0 |
| Phenanthrene, 2... | 18.491 | 3.1 | ng | 106681 | 4 | 17.493 | 695046 | 20.0 |
| 4H-Cyclopenta[d... | 18.568 | 6.3 | ng | 219172 | 4 | 17.493 | 695046 | 20.0 |
| 5-Chloro-1,2-tr... | 18.597 | 2.2 | ng | 76914 | 4 | 17.493 | 695046 | 20.0 |
| 5,16[1',2']:8,1... | 18.856 | 2.4 | ng | 82348 | 4 | 17.493 | 695046 | 20.0 |
| Naphthalene, 1,... | 19.273 | 3.0 | ng | 102472 | 4 | 17.493 | 695046 | 20.0 |
| unknown19.414 | 19.414 | 2.3 | ng | 79472 | 4 | 17.493 | 695046 | 20.0 |
| 11H-Benzo[b]flu... | 20.218 | 2.3 | ng | 175594 | 5 | 21.775 | 1503900 | 20.0 |
| 11H-Benzo[a]flu... | 20.389 | 3.4 | ng | 253060 | 5 | 21.775 | 1503900 | 20.0 |
| Pyrene, 1-methyl- | 20.489 | 2.3 | ng | 174525 | 5 | 21.775 | 1503900 | 20.0 |
| Pyrene, 2-methyl- | 20.547 | 2.8 | ng | 211135 | 5 | 21.775 | 1503900 | 20.0 |
| 7H-Benzo[c]carb... | 22.192 | 2.2 | ng | 165658 | 5 | 21.775 | 1503900 | 20.0 |
| Benz[a]anthrace... | 22.527 | 2.8 | ng | 211670 | 5 | 21.775 | 1503900 | 20.0 |
| Benzo[e]pyrene | 24.301 | 8.2 | ng | 221642 | 6 | 25.088 | 539315 | 20.0 |
| 10-Hydroxy-5-me... | 24.507 | 2.1 | ng | 57218 | 6 | 25.088 | 539315 | 20.0 |
| Perylene | 24.783 | 23.0 | ng | 619460 | 6 | 25.088 | 539315 | 20.0 |