LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.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 | 3.763 | 143 | 149 | 170 | rVV | 8137326 | 13337163 | 4.41% | 0.301% |
| 2 | 5.163 | 380 | 387 | 401 | rVB | 12800525 | 25730923 | 8.51% | 0.581% |
| 3 | 5.516 | 437 | 447 | 459 | rBV2 | 7305979 | 15019165 | 4.97% | 0.339% |
| 4 | 7.128 | 714 | 721 | 727 | rBV2 | 14434819 | 26010977 | 8.60% | 0.588% |
| 5 | 7.192 | 727 | 732 | 751 | rVB | 9726215 | 16138893 | 5.34% | 0.365% |
| 6 | 7.916 | 848 | 855 | 860 | rBV | 6234369 | 9371099 | 3.10% | 0.212% |
| 7 | 8.004 | 860 | 870 | 879 | rBV2 | 34158444 | 62772073 | 20.76% | 1.418% |
| 8 | 8.251 | 903 | 912 | 917 | rBV | 10476955 | 20200569 | 6.68% | 0.456% |
| 9 | 8.928 | 1020 | 1027 | 1033 | rVV | 8332425 | 18004144 | 5.95% | 0.407% |
| 10 | 9.445 | 1102 | 1115 | 1118 | rBV | 8218905 | 17533603 | 5.80% | 0.396% |
| 11 | 9.669 | 1140 | 1153 | 1159 | rBV3 | 9332467 | 25979933 | 8.59% | 0.587% |
| 12 | 9.745 | 1160 | 1166 | 1167 | rBV | 5645768 | 9421532 | 3.12% | 0.213% |
| 13 | 10.357 | 1248 | 1270 | 1274 | rBV2 | 64226807 | 302363627 | 100.00% | 6.831% |
| 14 | 10.428 | 1274 | 1282 | 1288 | rVV | 19333585 | 30560054 | 10.11% | 0.690% |
| 15 | 11.063 | 1383 | 1390 | 1400 | rVB2 | 9524980 | 22285753 | 7.37% | 0.503% |
| 16 | 11.275 | 1414 | 1426 | 1429 | rBV | 2937358 | 7366273 | 2.44% | 0.166% |
| 17 | 11.945 | 1525 | 1540 | 1544 | rBV3 | 62256236 | 173370315 | 57.34% | 3.917% |
| 18 | 12.157 | 1567 | 1576 | 1582 | rVB2 | 47102036 | 95698758 | 31.65% | 2.162% |
| 19 | 12.945 | 1703 | 1710 | 1713 | rBV | 17519016 | 27518539 | 9.10% | 0.622% |
| 20 | 13.139 | 1737 | 1743 | 1755 | rVB2 | 6112591 | 15115951 | 5.00% | 0.342% |
| 21 | 13.280 | 1756 | 1767 | 1769 | rBV | 19185122 | 37296014 | 12.33% | 0.843% |
| 22 | 13.451 | 1787 | 1796 | 1800 | rBV | 30034376 | 61383726 | 20.30% | 1.387% |
| 23 | 13.504 | 1800 | 1805 | 1810 | rVB | 27276845 | 36885092 | 12.20% | 0.833% |
| 24 | 13.680 | 1829 | 1835 | 1839 | rBV | 14486108 | 25126007 | 8.31% | 0.568% |
| 25 | 13.851 | 1855 | 1864 | 1869 | rVB2 | 49338987 | 82683432 | 27.35% | 1.868% |
| 26 | 14.104 | 1903 | 1907 | 1914 | rVB2 | 12932209 | 17698334 | 5.85% | 0.400% |
| 27 | 14.180 | 1914 | 1920 | 1924 | rBV | 15297472 | 23998035 | 7.94% | 0.542% |
| 28 | 14.339 | 1941 | 1947 | 1955 | rBV2 | 4363218 | 10149494 | 3.36% | 0.229% |
| 29 | 14.539 | 1967 | 1981 | 1987 | rBV3 | 52157842 | 101831484 | 33.68% | 2.301% |
| 30 | 14.610 | 1988 | 1993 | 1998 | rVB | 11409636 | 14885471 | 4.92% | 0.336% |
| 31 | 14.751 | 2008 | 2017 | 2021 | rBV2 | 9147237 | 18835336 | 6.23% | 0.426% |
| 32 | 14.804 | 2021 | 2026 | 2031 | rVB | 11492869 | 14964431 | 4.95% | 0.338% |
| 33 | 14.904 | 2037 | 2043 | 2044 | rBV3 | 5222653 | 8047213 | 2.66% | 0.182% |
| 34 | 14.927 | 2044 | 2047 | 2049 | rVV | 6904827 | 9229991 | 3.05% | 0.209% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.998 | 2055 | 2059 | 2062 | rBV | 7532074 | 10263341 | 3.39% | 0.232% |
| 36 | 15.080 | 2067 | 2073 | 2075 | rBV2 | 4167547 | 7340347 | 2.43% | 0.166% |
| 37 | 15.116 | 2076 | 2079 | 2084 | rVB | 9764003 | 13694474 | 4.53% | 0.309% |
| 38 | 15.198 | 2084 | 2093 | 2101 | rVB3 | 57148997 | 130850470 | 43.28% | 2.956% |
| 39 | 15.480 | 2135 | 2141 | 2145 | rBV | 22515506 | 33758913 | 11.17% | 0.763% |
| 40 | 15.586 | 2151 | 2159 | 2162 | rBV | 11506108 | 20503208 | 6.78% | 0.463% |
| 41 | 15.633 | 2162 | 2167 | 2174 | rVB | 26326700 | 55788217 | 18.45% | 1.260% |
| 42 | 15.710 | 2174 | 2180 | 2185 | rVB3 | 6049489 | 10292059 | 3.40% | 0.233% |
| 43 | 16.163 | 2252 | 2257 | 2258 | rBV | 9109648 | 13558940 | 4.48% | 0.306% |
| 44 | 16.186 | 2258 | 2261 | 2266 | rVV2 | 19314112 | 29505360 | 9.76% | 0.667% |
| 45 | 16.233 | 2266 | 2269 | 2275 | rVB | 10203623 | 14284710 | 4.72% | 0.323% |
| 46 | 16.333 | 2282 | 2286 | 2291 | rVB | 9289483 | 13062373 | 4.32% | 0.295% |
| 47 | 16.421 | 2297 | 2301 | 2305 | rBV | 11347474 | 18539061 | 6.13% | 0.419% |
| 48 | 16.545 | 2318 | 2322 | 2328 | rVB3 | 8877849 | 14212754 | 4.70% | 0.321% |
| 49 | 16.621 | 2330 | 2335 | 2341 | rBV | 11559121 | 20819707 | 6.89% | 0.470% |
| 50 | 16.692 | 2341 | 2347 | 2352 | rBV2 | 27434134 | 42182318 | 13.95% | 0.953% |
| 51 | 16.974 | 2379 | 2395 | 2398 | rBV3 | 76262105 | 294494503 | 97.40% | 6.653% |
| 52 | 17.057 | 2398 | 2409 | 2412 | rVV2 | 55930735 | 122372250 | 40.47% | 2.765% |
| 53 | 17.157 | 2423 | 2426 | 2430 | rVB | 6304827 | 7558239 | 2.50% | 0.171% |
| 54 | 17.298 | 2442 | 2450 | 2453 | rBV3 | 28510441 | 54943880 | 18.17% | 1.241% |
| 55 | 17.604 | 2498 | 2502 | 2507 | rVB2 | 6701808 | 11024251 | 3.65% | 0.249% |
| 56 | 17.768 | 2522 | 2530 | 2533 | rBV2 | 35431057 | 64598922 | 21.36% | 1.459% |
| 57 | 17.821 | 2533 | 2539 | 2546 | rVB2 | 53311660 | 94319648 | 31.19% | 2.131% |
| 58 | 17.904 | 2547 | 2553 | 2558 | rBV2 | 31390757 | 60115446 | 19.88% | 1.358% |
| 59 | 17.968 | 2558 | 2564 | 2568 | rVV3 | 57460654 | 115165698 | 38.09% | 2.602% |
| 60 | 18.009 | 2568 | 2571 | 2575 | rVB | 32732822 | 38751896 | 12.82% | 0.876% |
| 61 | 18.109 | 2584 | 2588 | 2593 | rVB3 | 10909899 | 14987442 | 4.96% | 0.339% |
| 62 | 18.268 | 2610 | 2615 | 2621 | rVB | 25216863 | 37789779 | 12.50% | 0.854% |
| 63 | 18.562 | 2662 | 2665 | 2668 | rBV | 10094594 | 12270094 | 4.06% | 0.277% |
| 64 | 18.604 | 2669 | 2672 | 2677 | rVB3 | 8195727 | 12208125 | 4.04% | 0.276% |
| 65 | 18.692 | 2682 | 2687 | 2691 | rBV | 19842691 | 34984823 | 11.57% | 0.790% |
| 66 | 18.762 | 2696 | 2699 | 2707 | rVV2 | 24664469 | 47847962 | 15.82% | 1.081% |
| 67 | 18.833 | 2708 | 2711 | 2722 | rVB5 | 10991739 | 34514869 | 11.42% | 0.780% |
| 68 | 18.998 | 2726 | 2739 | 2742 | rVV4 | 69497452 | 213974829 | 70.77% | 4.834% |
| 69 | 19.068 | 2748 | 2751 | 2754 | rVV3 | 8524654 | 12859261 | 4.25% | 0.291% |
| 70 | 19.115 | 2755 | 2759 | 2766 | rVB | 23692803 | 32353899 | 10.70% | 0.731% |
| 71 | 19.333 | 2789 | 2796 | 2800 | rBV4 | 75370566 | 195528619 | 64.67% | 4.417% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 19.403 | 2805 | 2808 | 2815 | rVB3 | 21166804 | 35705727 | 11.81% | 0.807% |
| 73 | 19.509 | 2821 | 2826 | 2833 | rBV | 18237760 | 27141191 | 8.98% | 0.613% |
| 74 | 19.574 | 2834 | 2837 | 2842 | rVB2 | 9347828 | 14921816 | 4.94% | 0.337% |
| 75 | 19.668 | 2845 | 2853 | 2857 | rBV2 | 19084532 | 46088240 | 15.24% | 1.041% |
| 76 | 19.798 | 2870 | 2875 | 2876 | rBV2 | 16140555 | 25638876 | 8.48% | 0.579% |
| 77 | 19.886 | 2886 | 2890 | 2893 | rBV5 | 5913016 | 9921819 | 3.28% | 0.224% |
| 78 | 19.945 | 2893 | 2900 | 2903 | rVV2 | 44074890 | 80381405 | 26.58% | 1.816% |
| 79 | 19.992 | 2903 | 2908 | 2913 | rVB3 | 33765283 | 65472884 | 21.65% | 1.479% |
| 80 | 20.074 | 2919 | 2922 | 2926 | rBV3 | 7471343 | 9128258 | 3.02% | 0.206% |
| 81 | 20.133 | 2928 | 2932 | 2935 | rVV | 15766212 | 21231413 | 7.02% | 0.480% |
| 82 | 20.174 | 2935 | 2939 | 2943 | rVB2 | 18699262 | 26185679 | 8.66% | 0.592% |
| 83 | 20.262 | 2951 | 2954 | 2958 | rBV | 6188677 | 8222243 | 2.72% | 0.186% |
| 84 | 20.380 | 2971 | 2974 | 2977 | rBV2 | 6902021 | 10340780 | 3.42% | 0.234% |
| 85 | 20.545 | 2998 | 3002 | 3006 | rBV2 | 10485978 | 17895613 | 5.92% | 0.404% |
| 86 | 20.780 | 3039 | 3042 | 3046 | rVB | 20716908 | 26163247 | 8.65% | 0.591% |
| 87 | 20.827 | 3047 | 3050 | 3058 | rVB3 | 13016381 | 28940515 | 9.57% | 0.654% |
| 88 | 21.109 | 3088 | 3098 | 3101 | rBV4 | 65651822 | 179220258 | 59.27% | 4.049% |
| 89 | 21.262 | 3120 | 3124 | 3130 | rBV | 15821860 | 26783941 | 8.86% | 0.605% |
| 90 | 21.409 | 3145 | 3149 | 3155 | rBV3 | 15501688 | 27589964 | 9.12% | 0.623% |
| 91 | 21.586 | 3176 | 3179 | 3183 | rBV2 | 7721370 | 13495321 | 4.46% | 0.305% |
| 92 | 21.645 | 3185 | 3189 | 3193 | rVV3 | 30803710 | 52408567 | 17.33% | 1.184% |
| 93 | 21.692 | 3194 | 3197 | 3202 | rVB | 19198214 | 25043559 | 8.28% | 0.566% |
| 94 | 21.792 | 3211 | 3214 | 3217 | rVB2 | 11533587 | 14349040 | 4.75% | 0.324% |
| 95 | 21.833 | 3217 | 3221 | 3224 | rBV2 | 13783791 | 21469479 | 7.10% | 0.485% |
| 96 | 21.915 | 3232 | 3235 | 3240 | rVB2 | 8566487 | 10994629 | 3.64% | 0.248% |
| 97 | 22.633 | 3348 | 3357 | 3361 | rBV3 | 34665769 | 101623380 | 33.61% | 2.296% |
| 98 | 22.780 | 3377 | 3382 | 3386 | rVB | 16590009 | 25188595 | 8.33% | 0.569% |
| 99 | 23.180 | 3441 | 3450 | 3456 | rVB2 | 38998459 | 91015738 | 30.10% | 2.056% |
| 100 | 23.291 | 3466 | 3469 | 3477 | rVB2 | 14072658 | 25547133 | 8.45% | 0.577% |

Sum of corrected areas: 4426243401

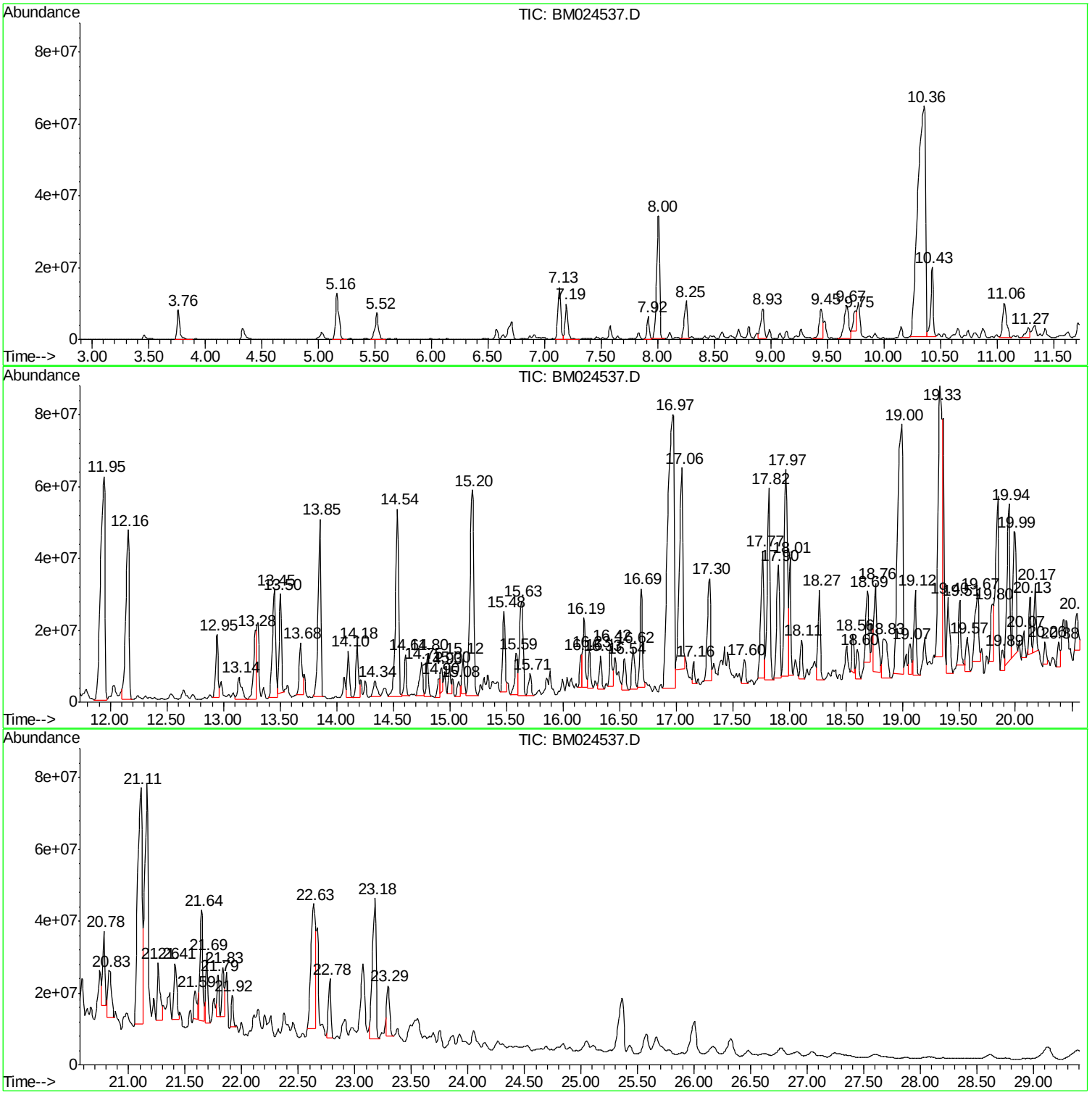
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

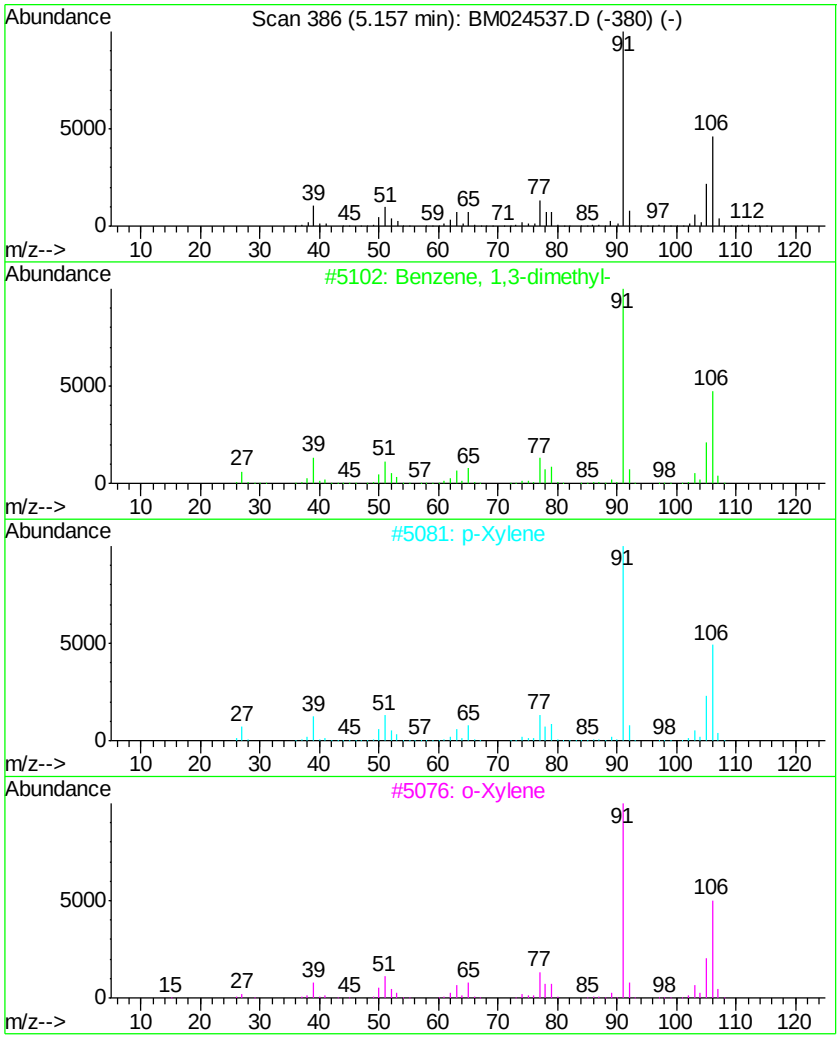
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

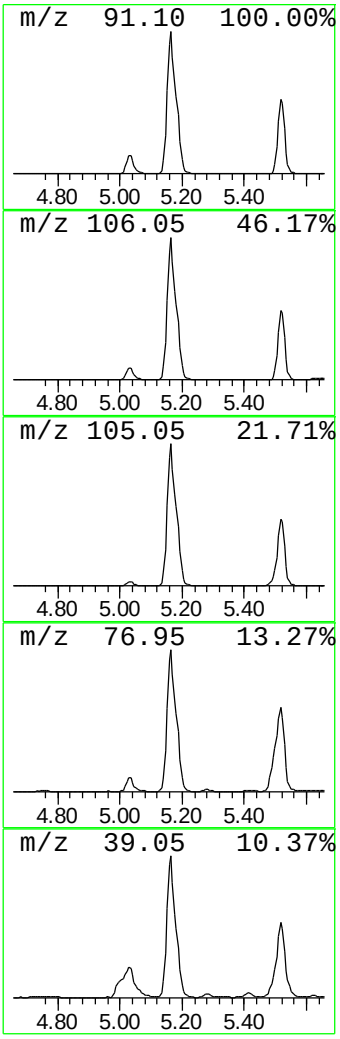
**********

Peak Number 2 Benzene, 1,3-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.16 | 31.89 ng/ul | 25730900 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 97 |
| 2 | p-Xylene | 106 | C8H10 | 000106-42-3 | 97 |
| 3 | o-Xylene | 106 | C8H10 | 000095-47-6 | 97 |
| 4 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 97 |
| 5 | p-Xylene | 106 | C8H10 | 000106-42-3 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

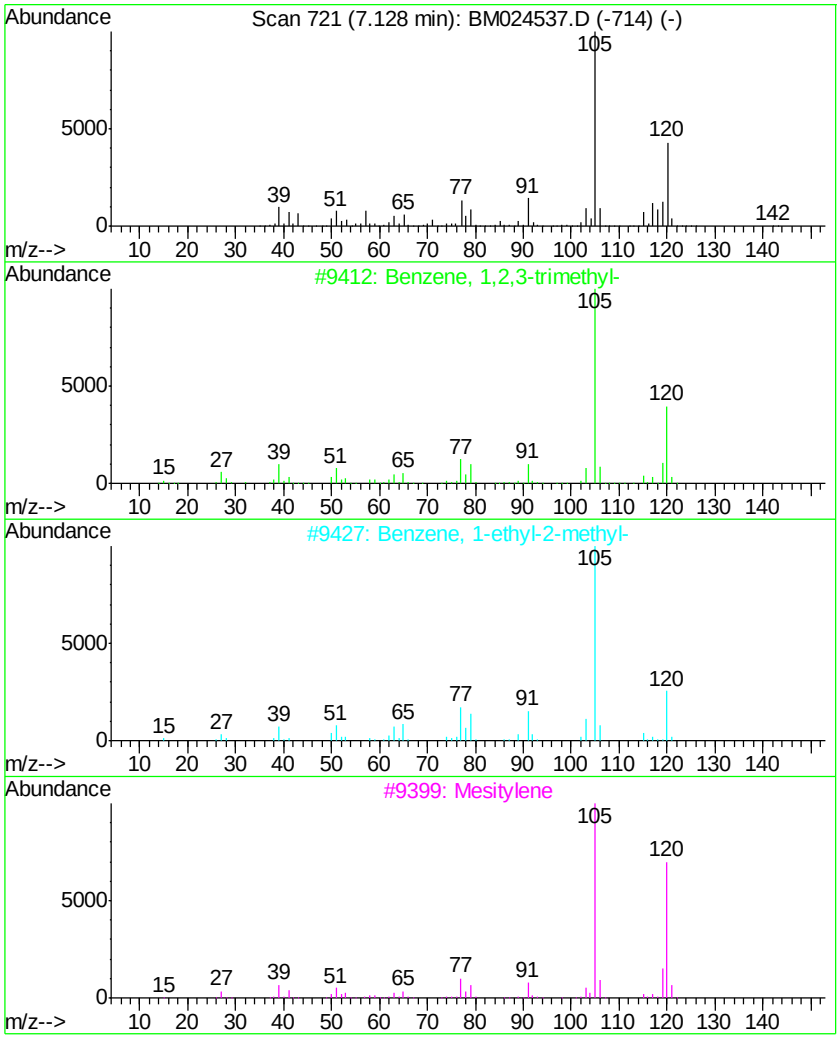
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

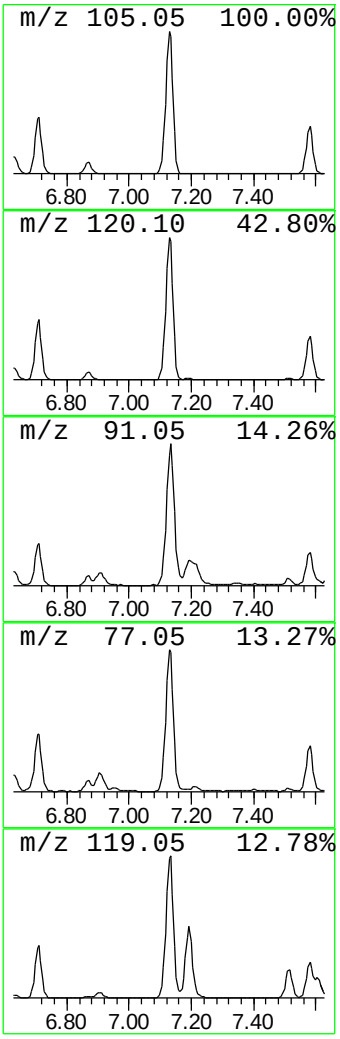
**********

Peak Number 4 Benzene, 1,2,3-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.13 | 32.23 ng/ul | 26011000 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 90 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 90 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

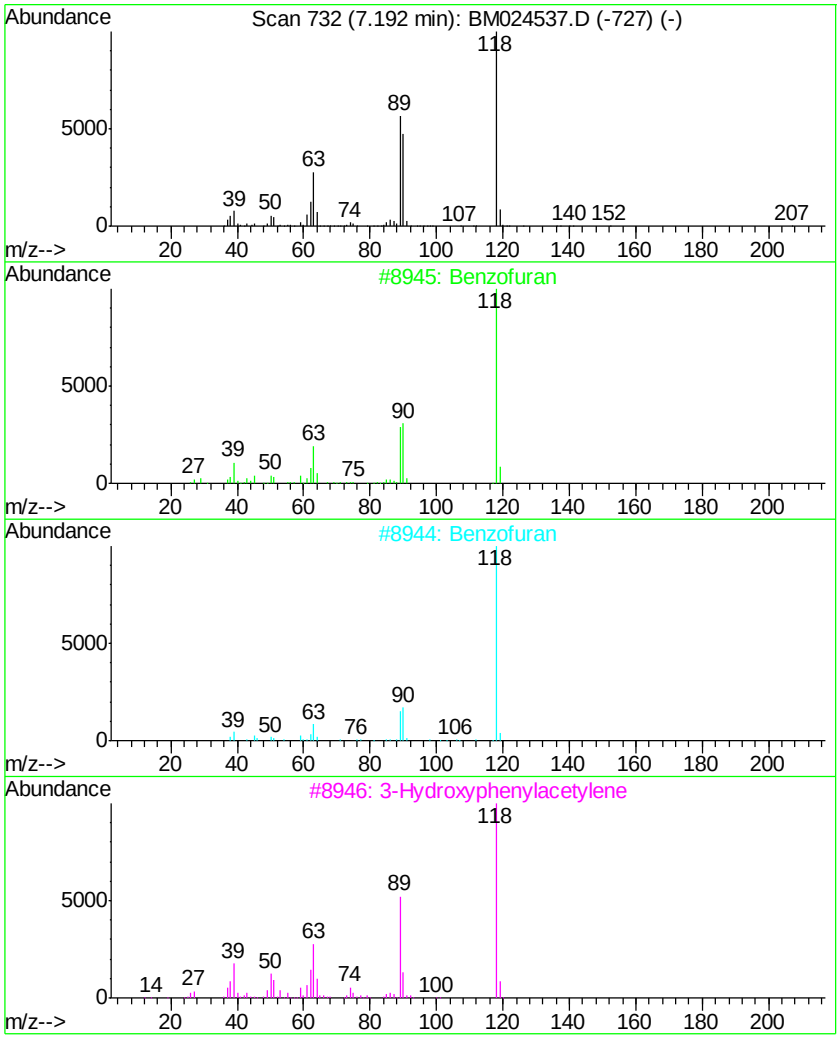
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

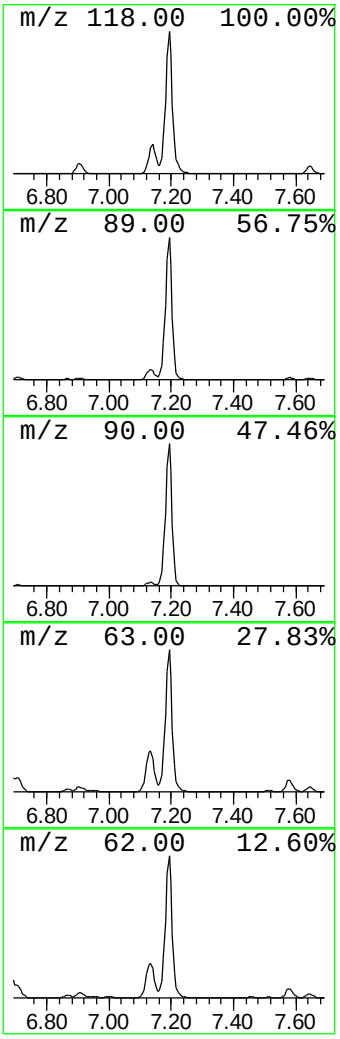
**********

Peak Number 5 Benzofuran Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.19 | 20.00 ng/ul | 16138900 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran | 118 | C8H6O | 000271-89-6 | 91 |
| 2 | Benzofuran | 118 | C8H6O | 000271-89-6 | 91 |
| 3 | 3-Hydroxyphenylacetylene | 118 | C8H6O | 010401-11-3 | 87 |
| 4 | Benzofuran | 118 | C8H6O | 000271-89-6 | 72 |
| 5 | 2H-Cyclopenta[d]pyridazine | 118 | C7H6N2 | 000270-64-4 | 59 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

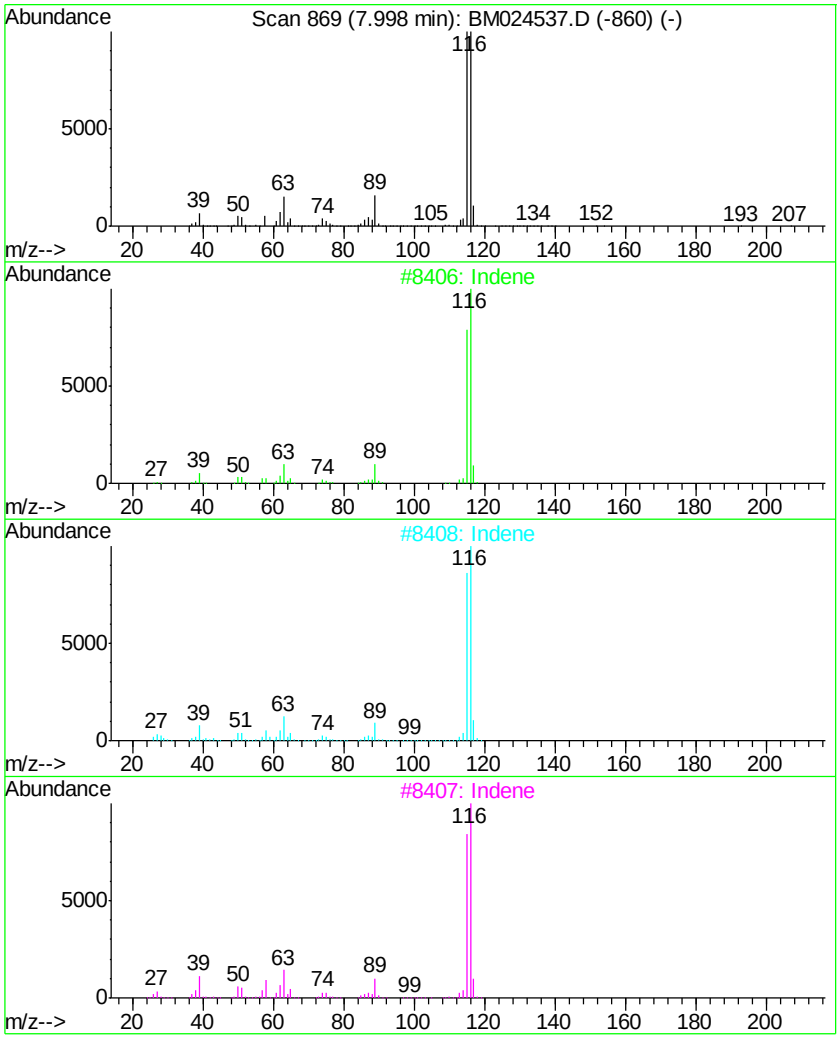
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

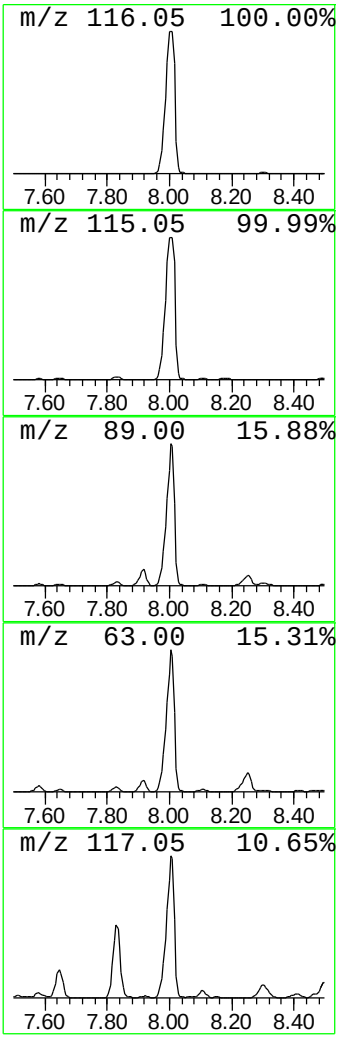
**********

Peak Number 6 Indene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.00 | 77.79 ng/ul | 62772100 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 3 | Indene | 116 | C9H8 | 000095-13-6 | 95 |
| 4 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 87 |
| 5 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

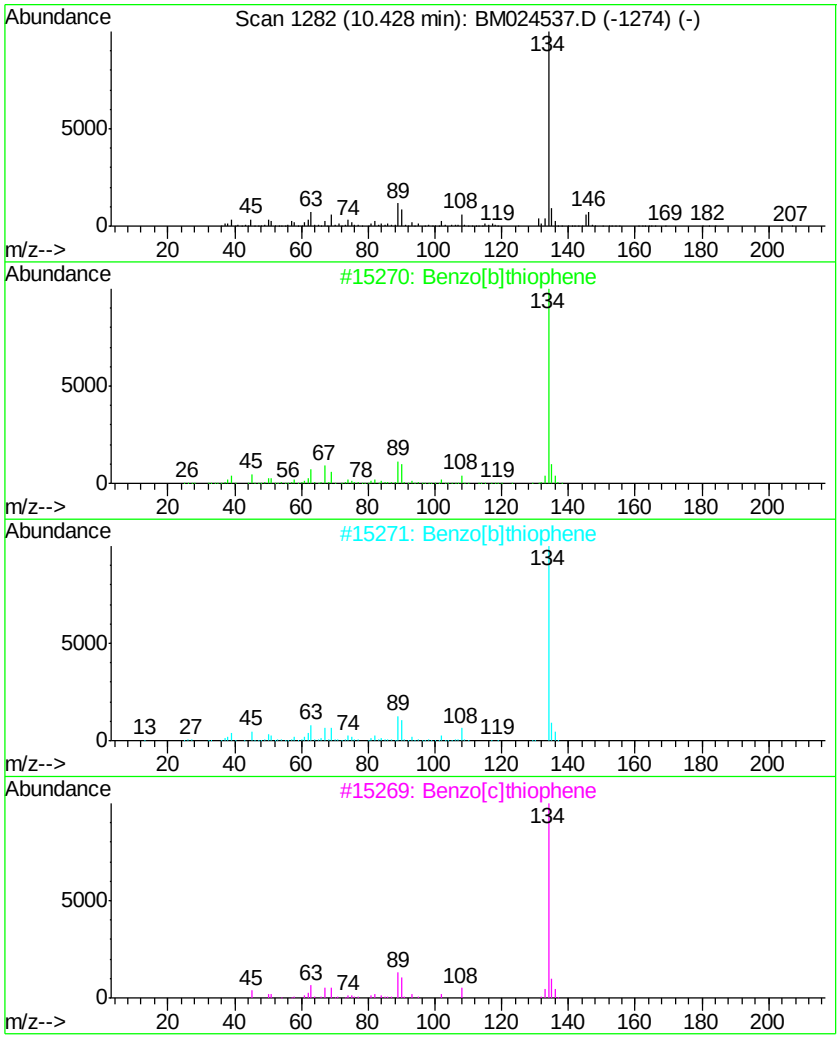
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

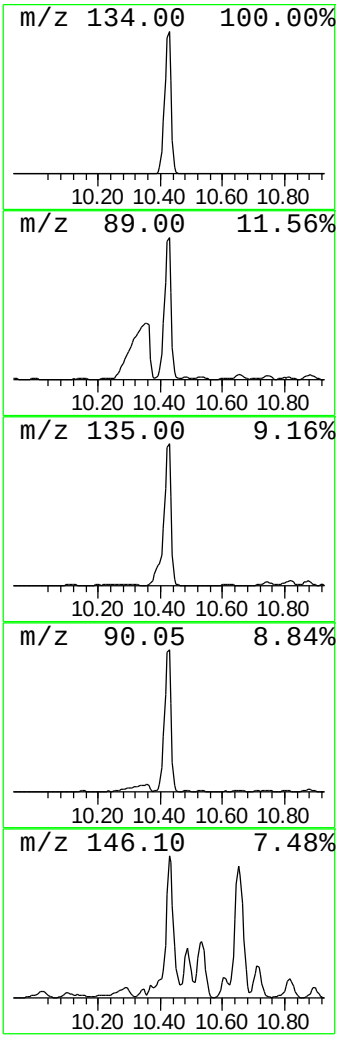
**********

Peak Number 7 Benzo[b]thiophene Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 2.02 ng/ul | 30560100 | Naphthalene-d8 | 10.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 91 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 87 |
| 3 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 87 |
| 4 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 87 |
| 5 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

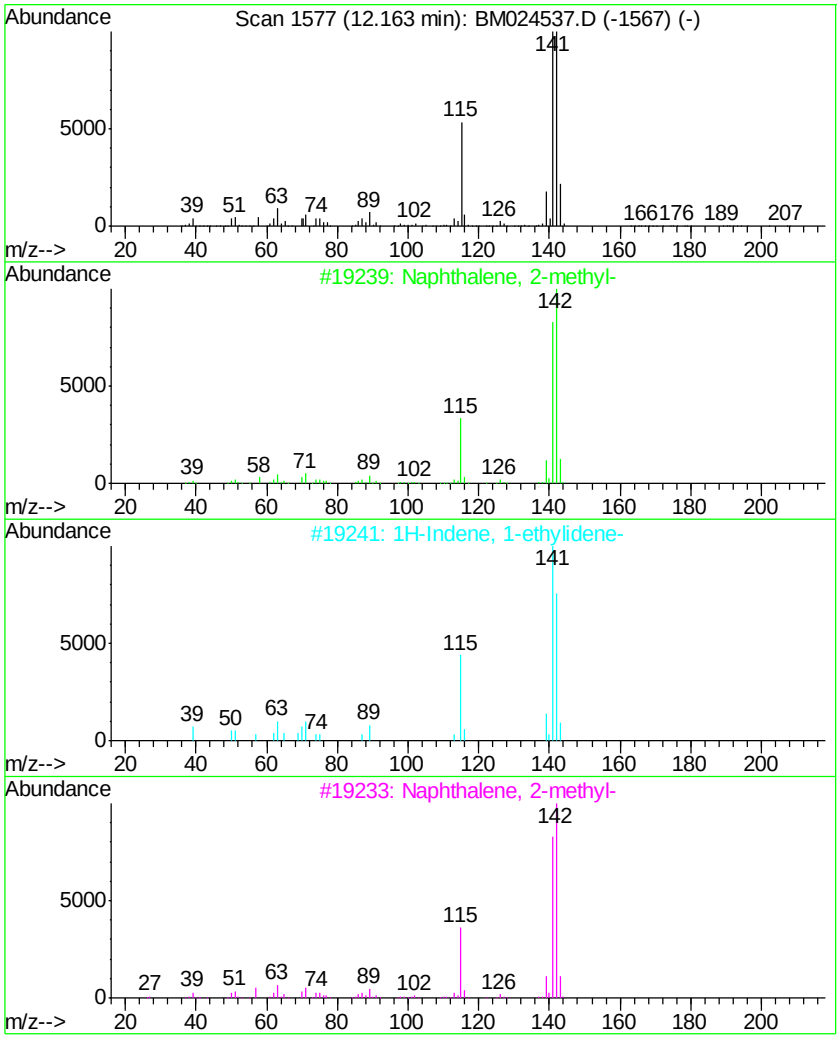
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

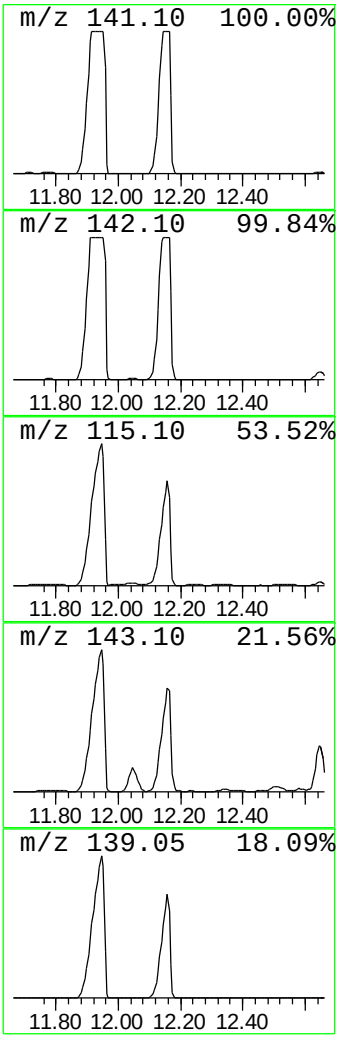
**********

Peak Number 8 Naphthalene, 1-methyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.16 | 6.33 ng/ul | 95698800 | Naphthalene-d8 | 10.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 93 |
| 2 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 90 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 90 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 90 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

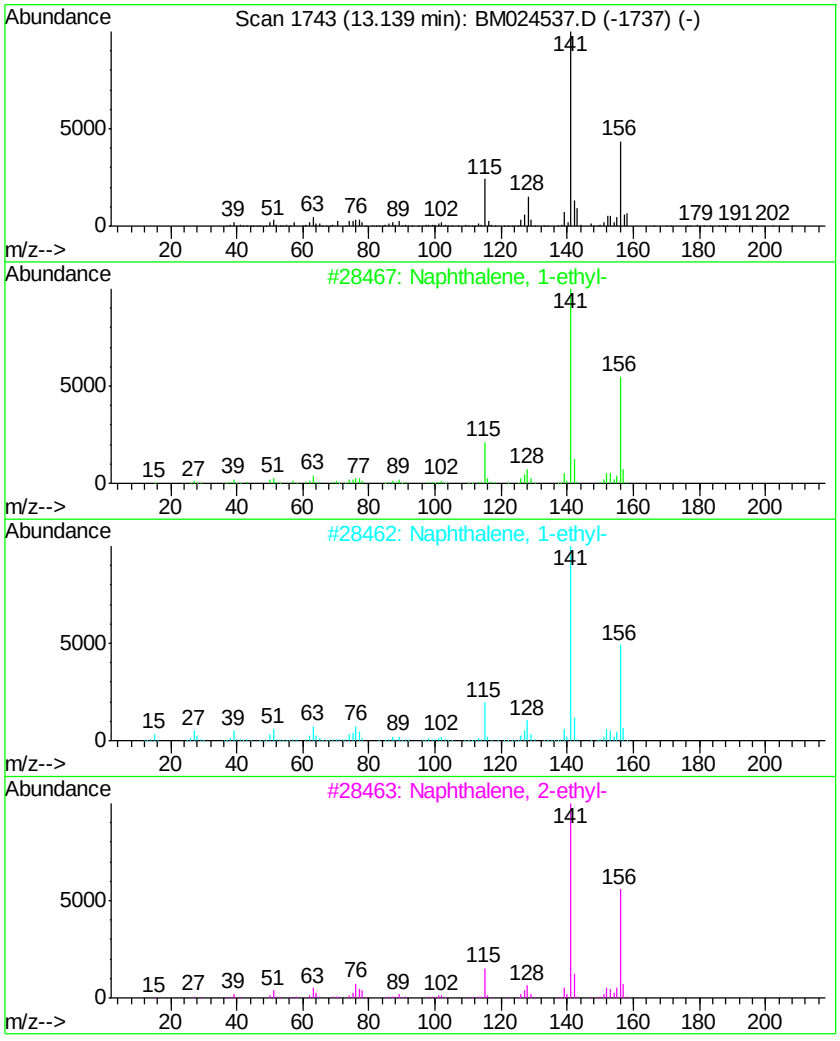
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

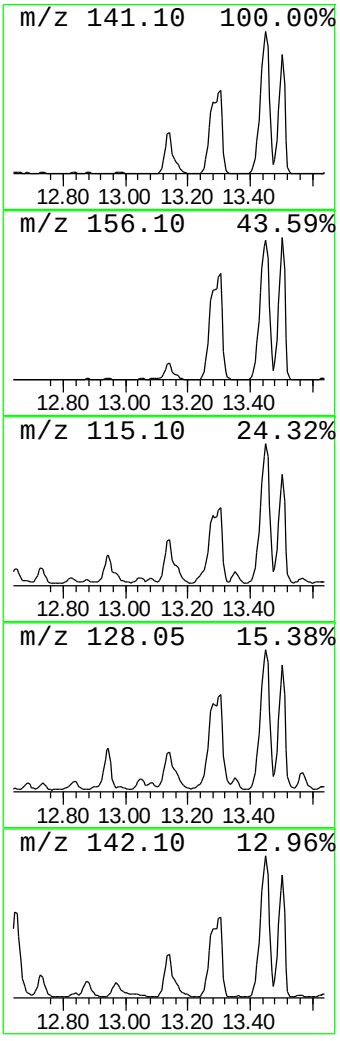
**********

Peak Number 9 Naphthalene, 1-ethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.14 | 17.08 ng/ul | 15116000 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 93 |
| 2 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 93 |
| 3 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 93 |
| 4 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 91 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

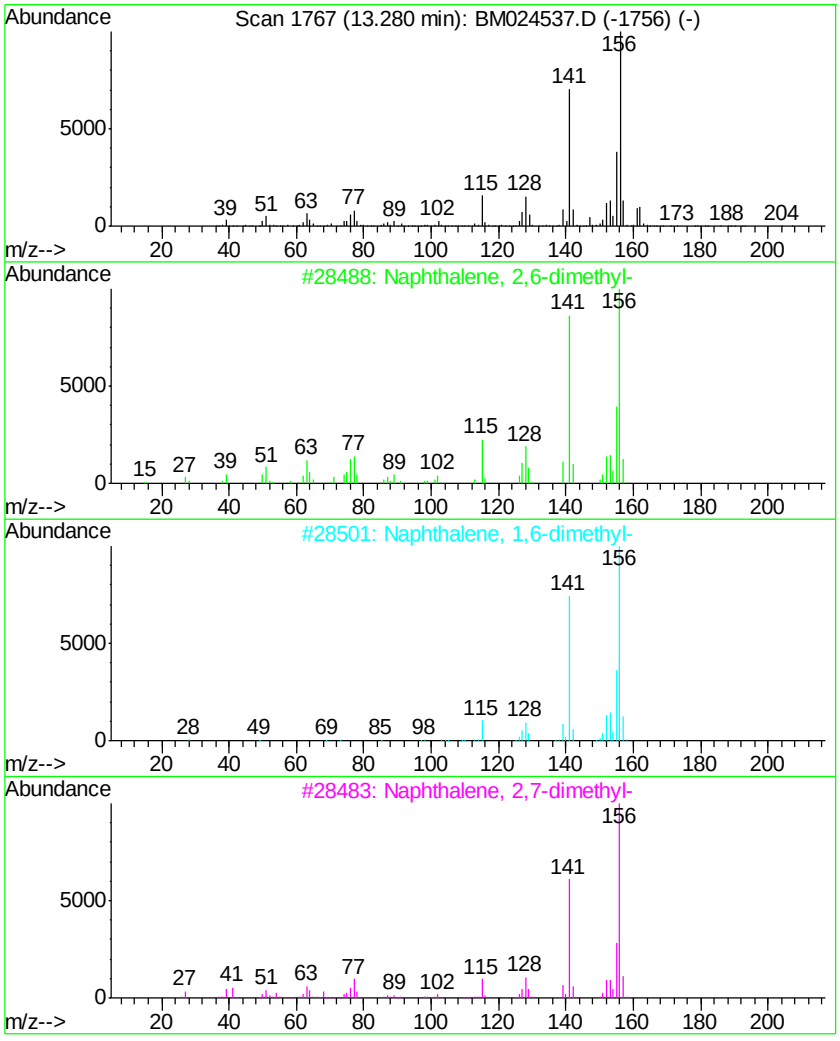
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

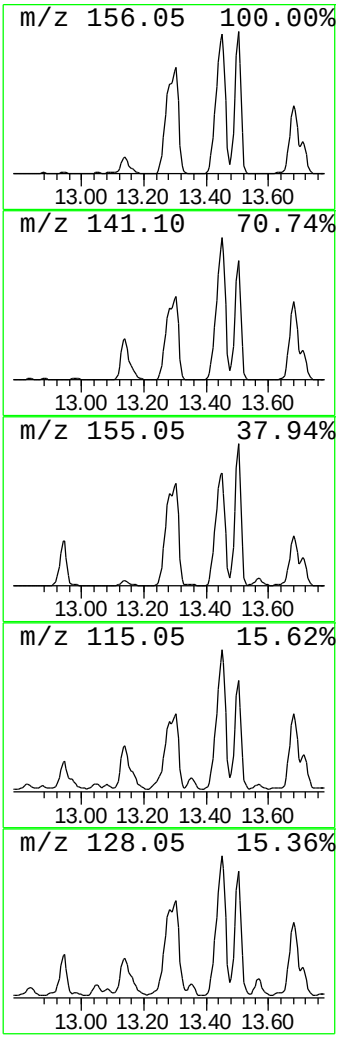
**********

Peak Number 10 Naphthalene, 2,6-dimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.28 | 42.15 ng/ul | 37296000 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 95 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

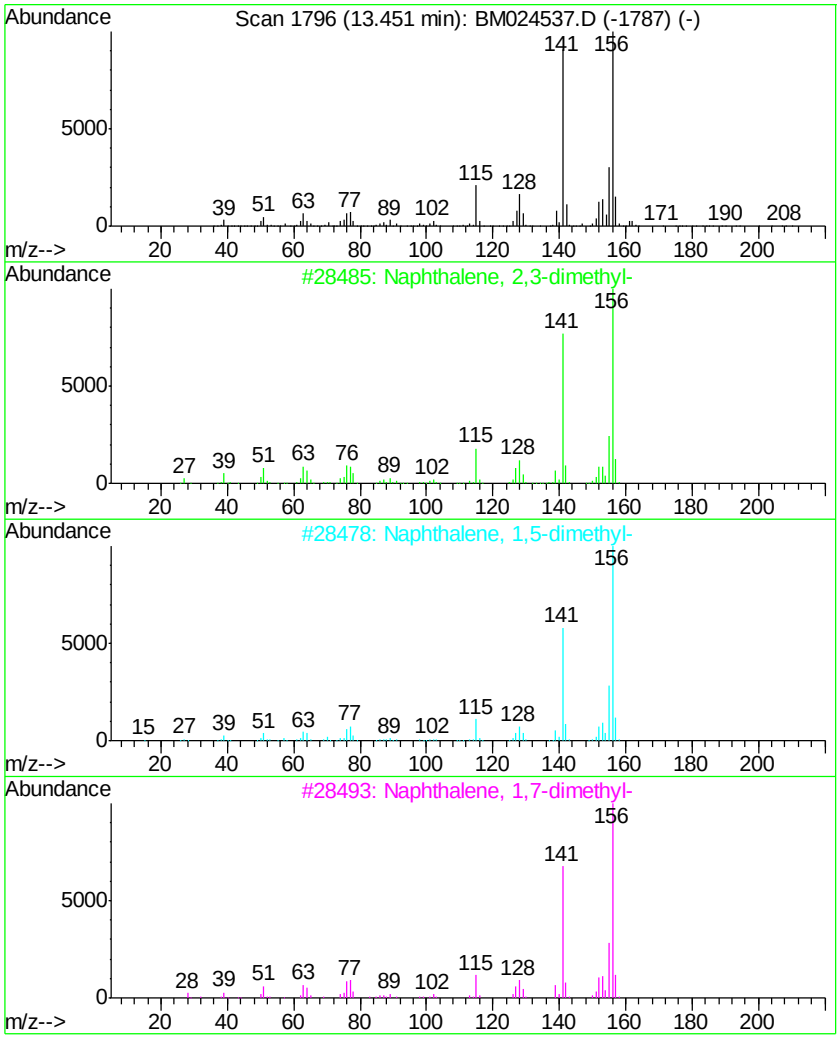
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

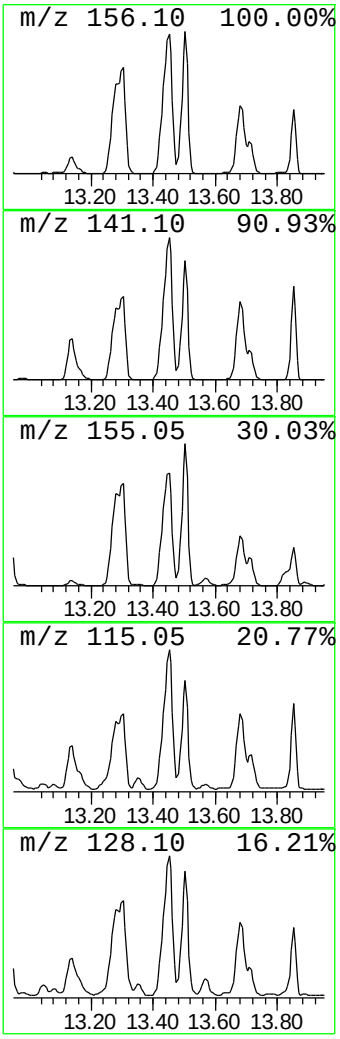
**********

Peak Number 11 Naphthalene, 2,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.45 | 69.37 ng/ul | 61383700 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

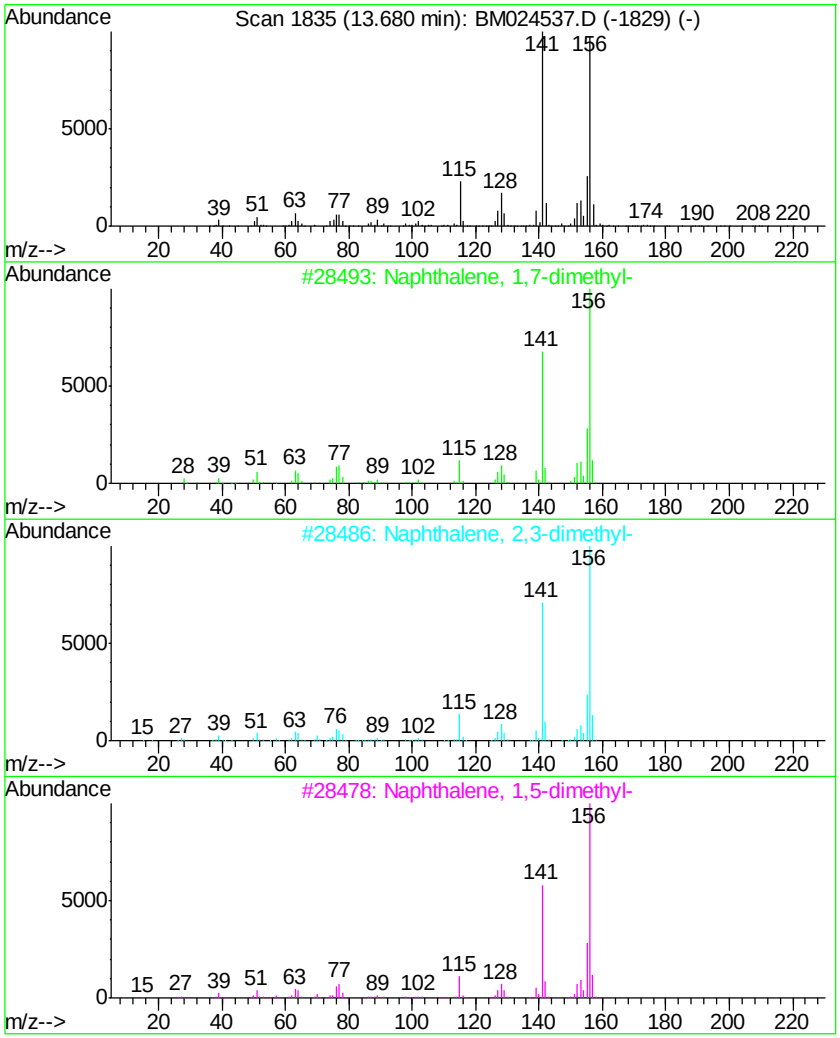
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

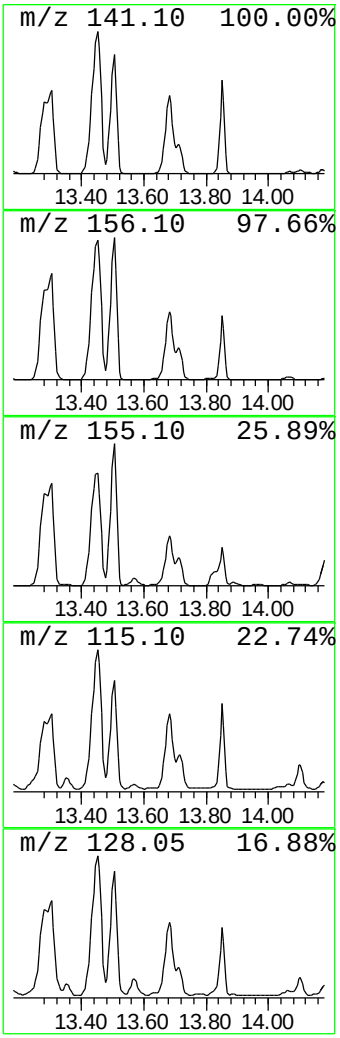
**********

Peak Number 12 Naphthalene, 1,7-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.68 | 28.39 ng/ul | 25126000 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

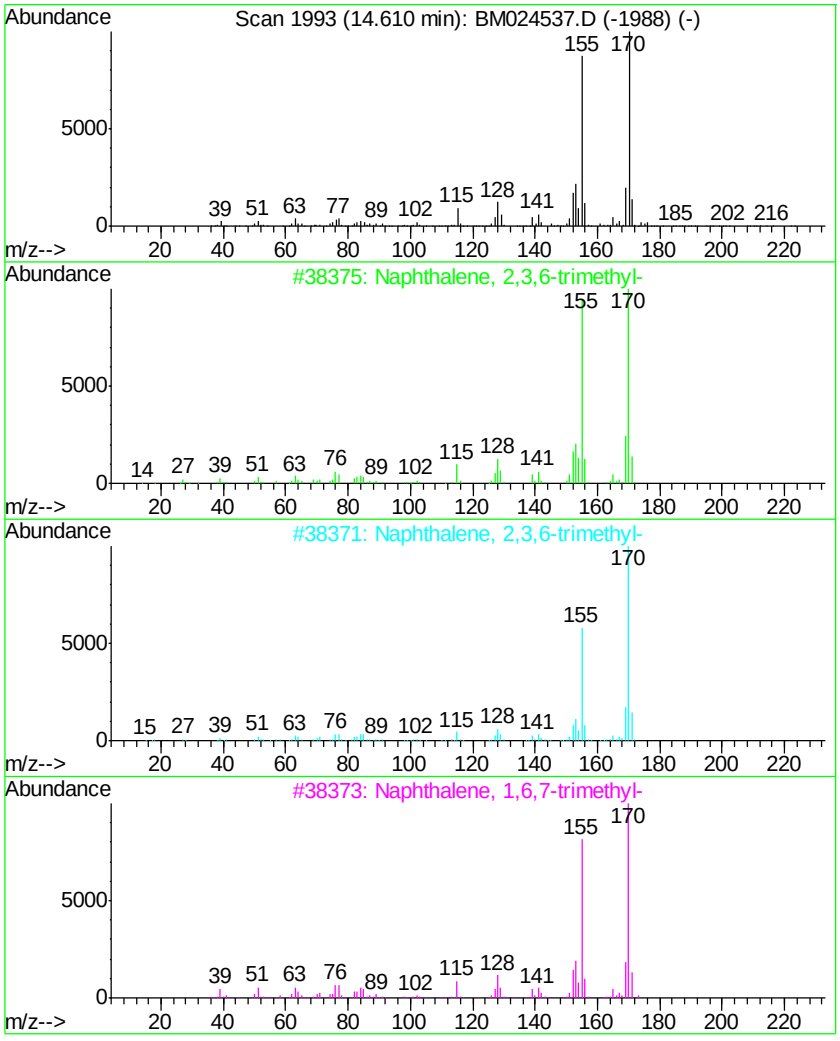
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

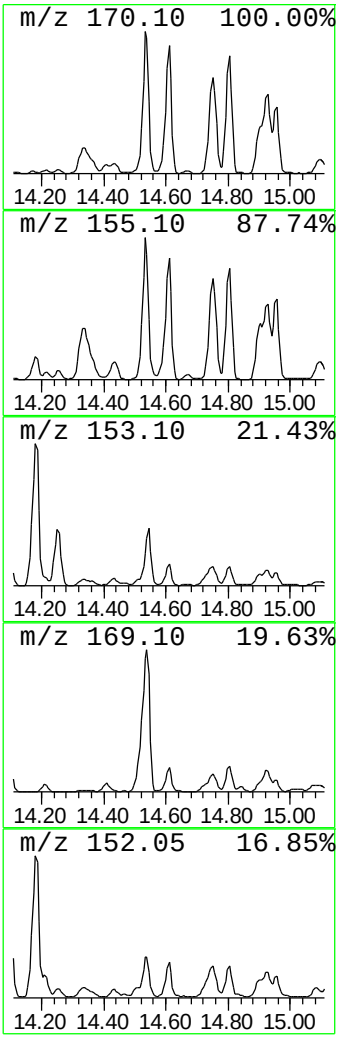
**********

Peak Number 13 Naphthalene, 2,3,6-trimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.61 | 16.82 ng/ul | 14885500 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 98 |
| 2 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 97 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 4 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 96 |
| 5 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

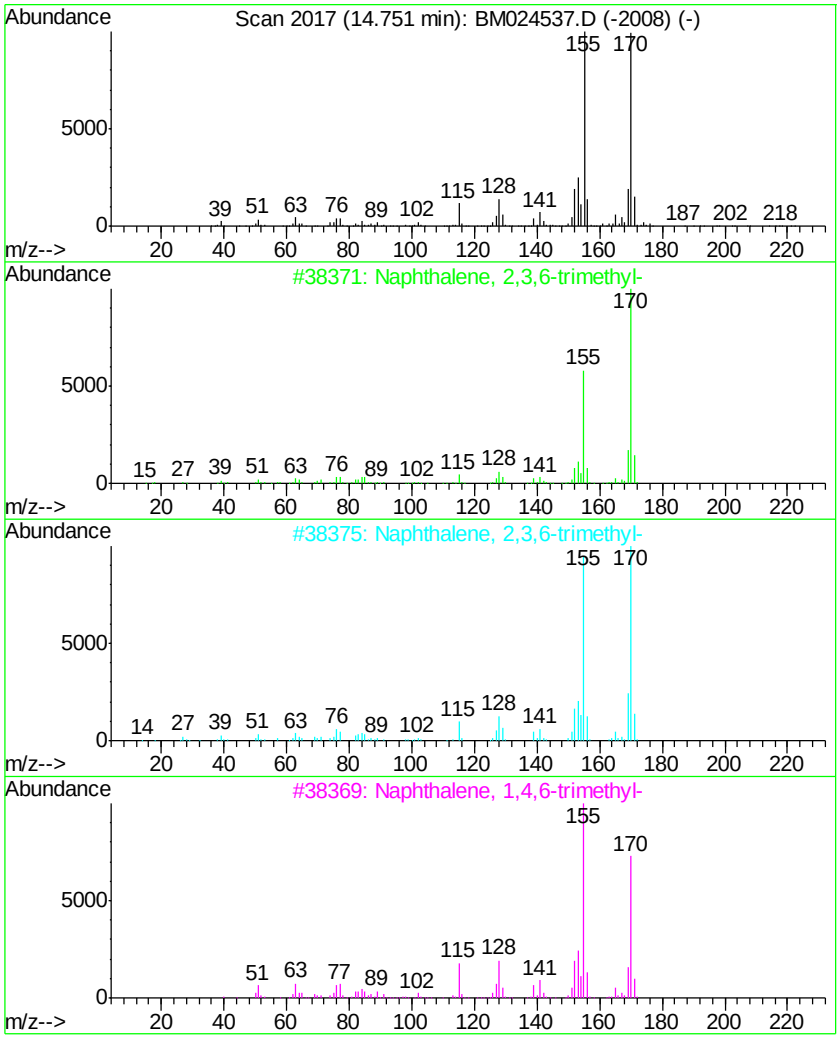
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

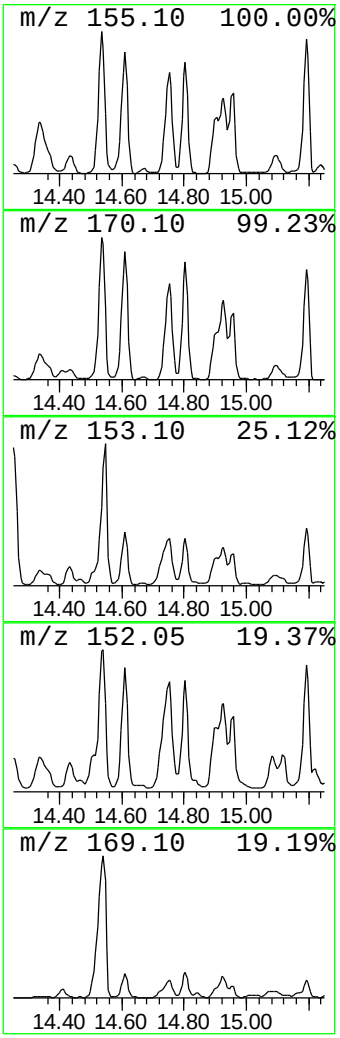
**********

Peak Number 14 Naphthalene, 1,4,6-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.75 | 21.28 ng/ul | 18835300 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 97 |
| 2 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 96 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |
| 4 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 96 |
| 5 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 95 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

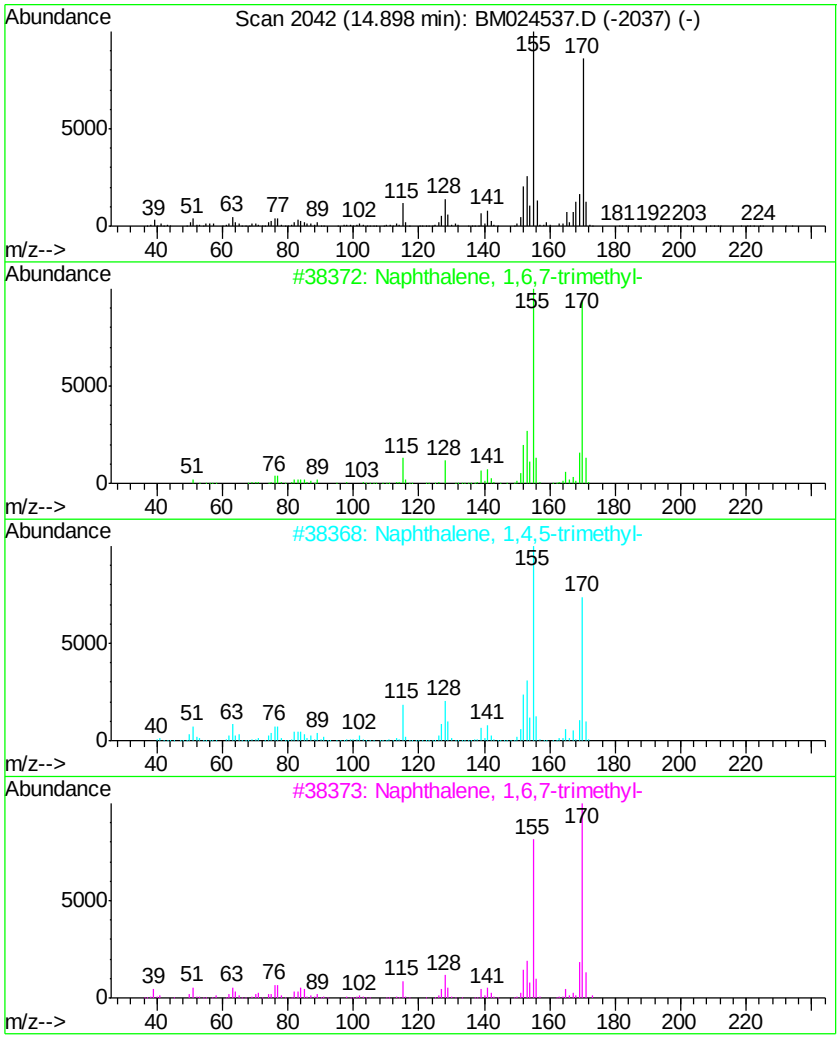
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

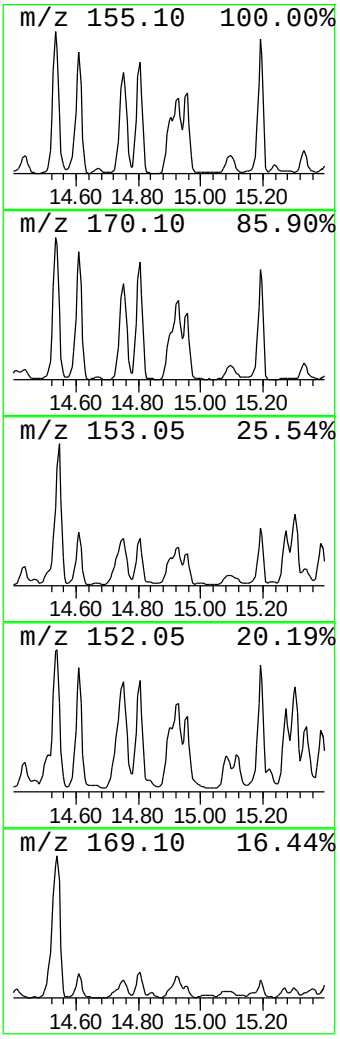
**********

Peak Number 16 Naphthalene, 1,6,7-trimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.90 | 9.09 ng/ul | 8047210 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 98 |
| 2 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 97 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 4 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 96 |
| 5 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

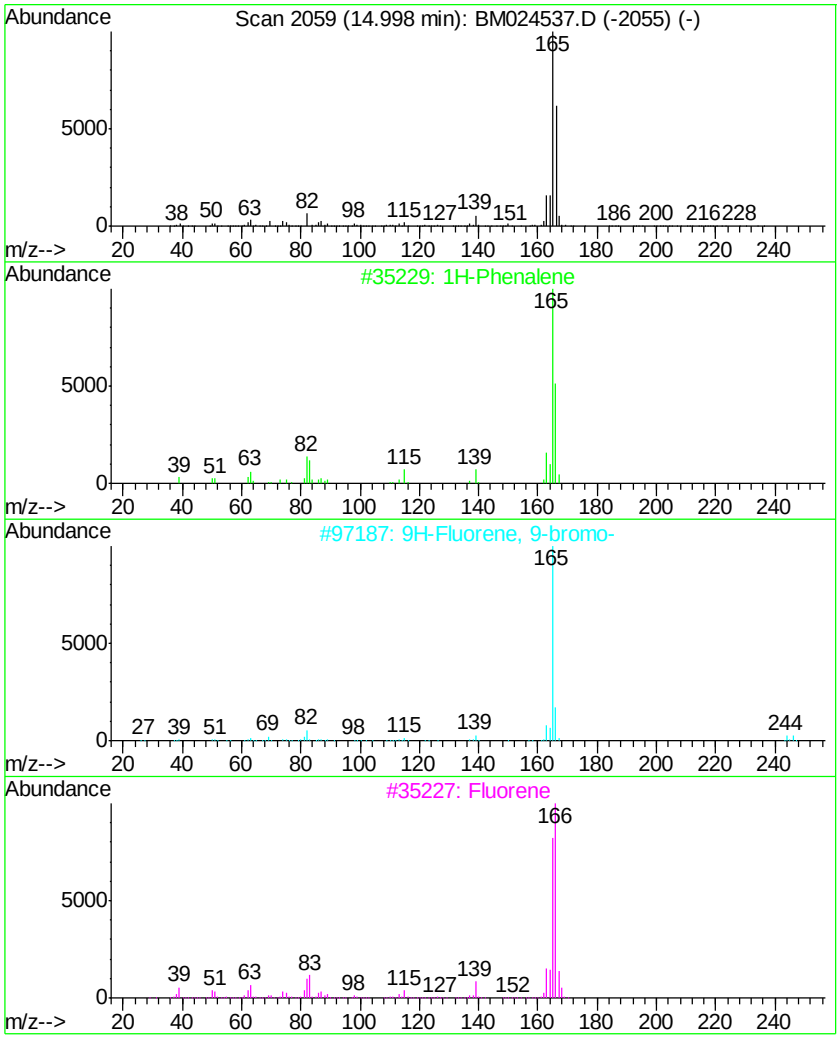
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

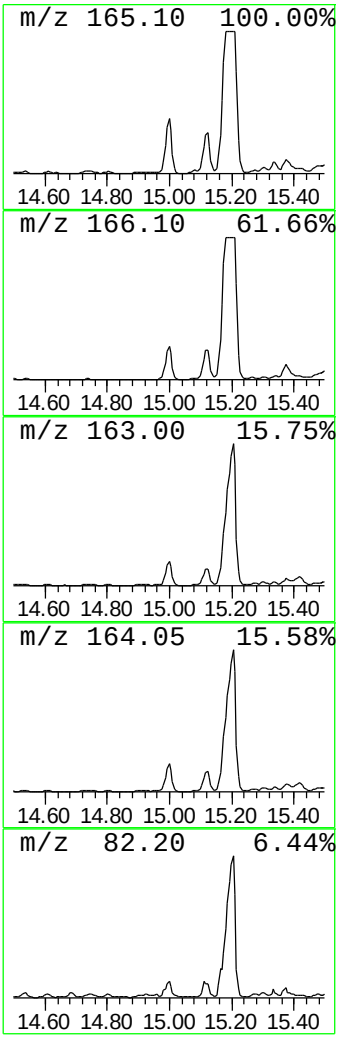
**********

Peak Number 18 1H-Phenalene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.00 | 11.60 ng/ul | 10263300 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Phenalene | 166 | C13H10 | 000203-80-5 | 78 |
| 2 | 9H-Fluorene, 9-bromo- | 244 | C13H9Br | 001940-57-4 | 42 |
| 3 | Fluorene | 166 | C13H10 | 000086-73-7 | 40 |
| 4 | 3-Trifluoromethylbenzhydryl chlo... | 270 | C14H10ClF3 | 067240-79-3 | 40 |
| 5 | Fluorene | 166 | C13H10 | 000086-73-7 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

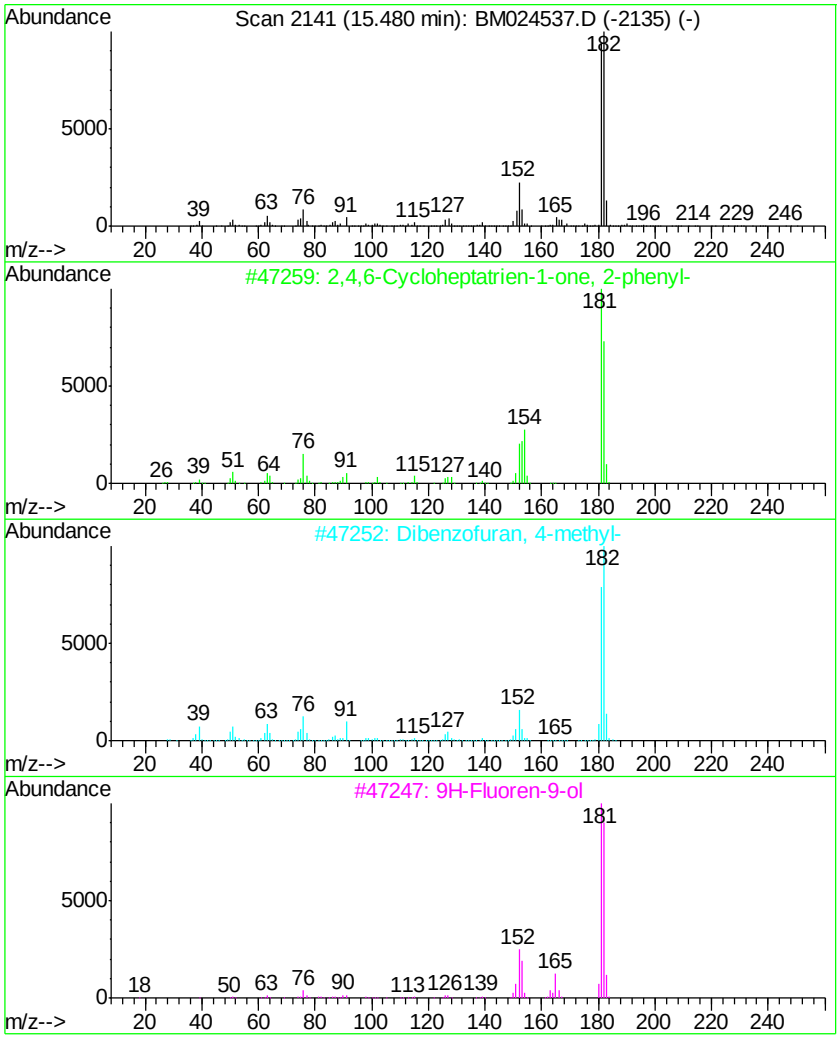
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

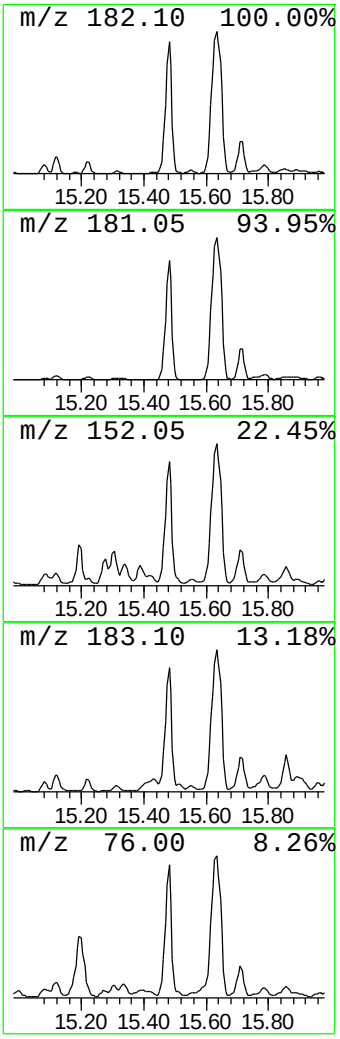
**********

Peak Number 19 2,4,6-Cycloheptatrien-1-one... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.48 | 38.15 ng/ul | 33758900 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 87 |
| 2 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 86 |
| 3 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |
| 4 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 78 |
| 5 | 3-(2-Naphthyl)acrylaldehyde | 182 | C13H10O | 020884-05-3 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

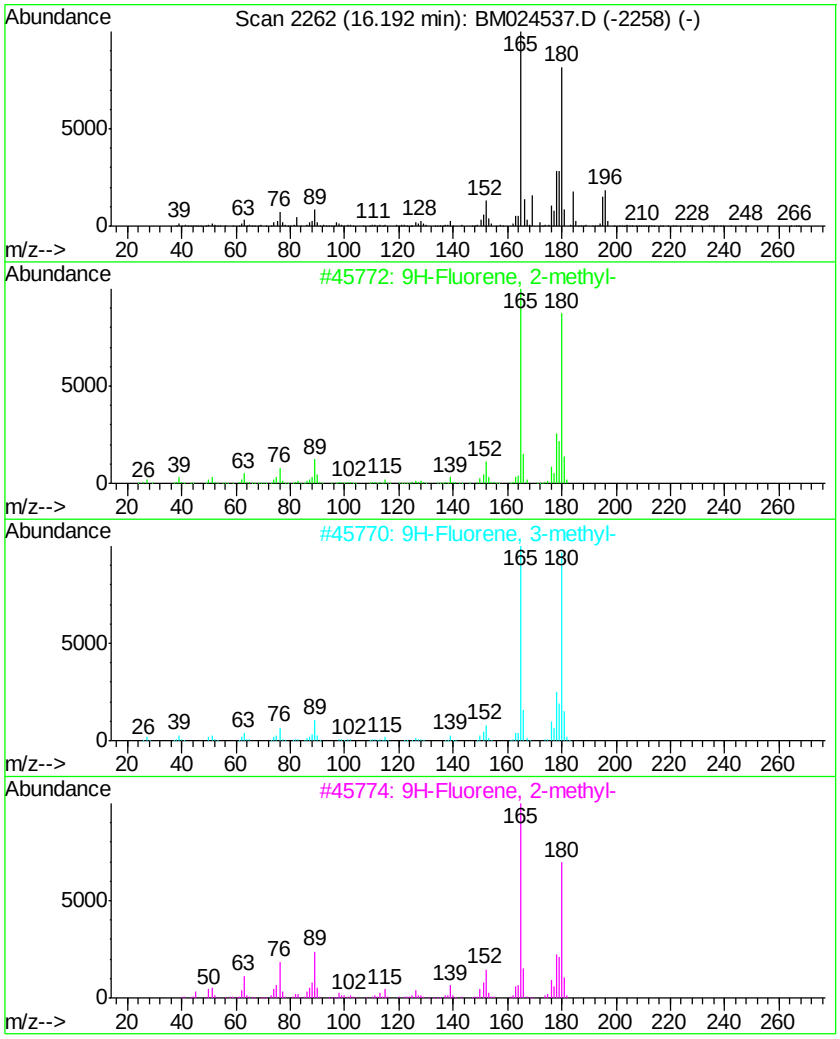
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

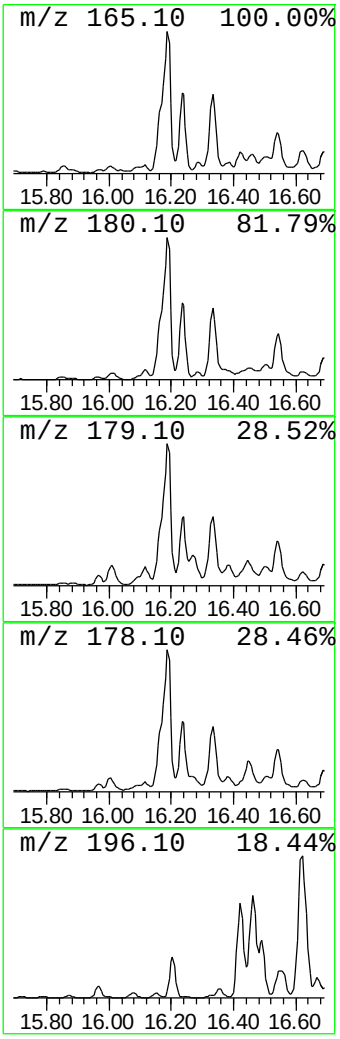
**********

Peak Number 21 9H-Fluorene, 2-methyl- Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.19 | 2.00 ng/ul | 29505400 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 93 |
| 2 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 89 |
| 3 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 89 |
| 4 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 89 |
| 5 | 4a,9a-Methano-9H-fluorene | 180 | C14H12 | 019540-84-2 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

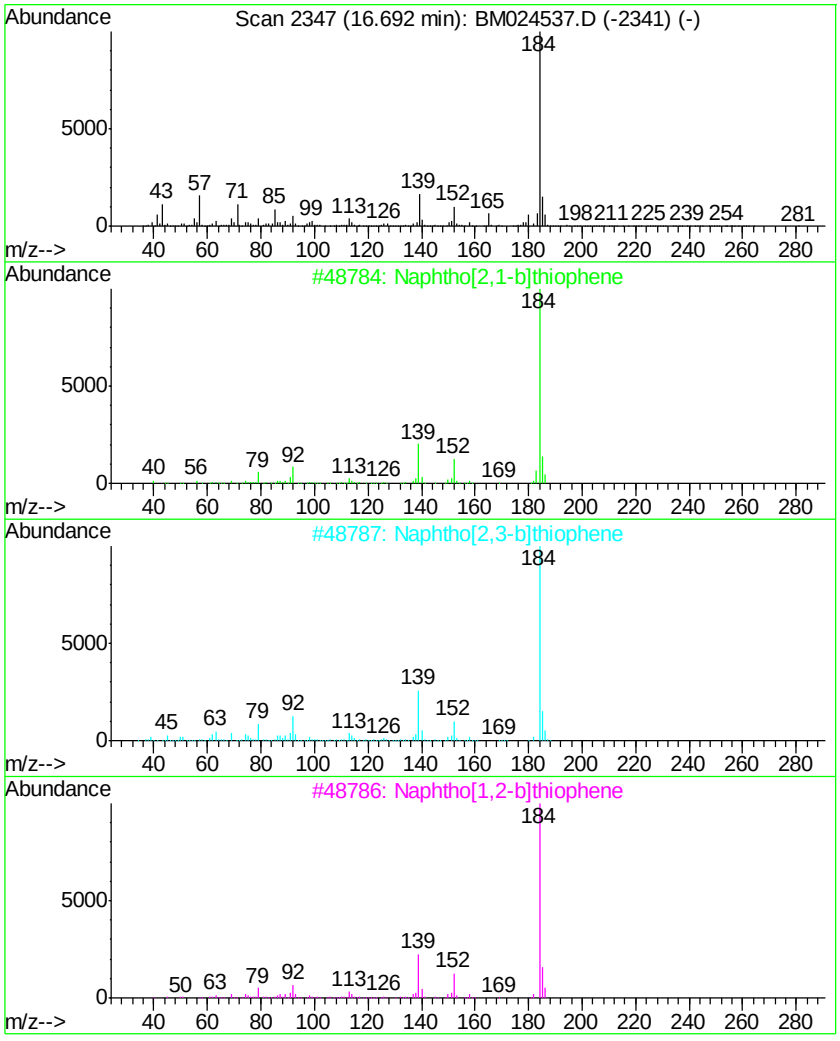
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

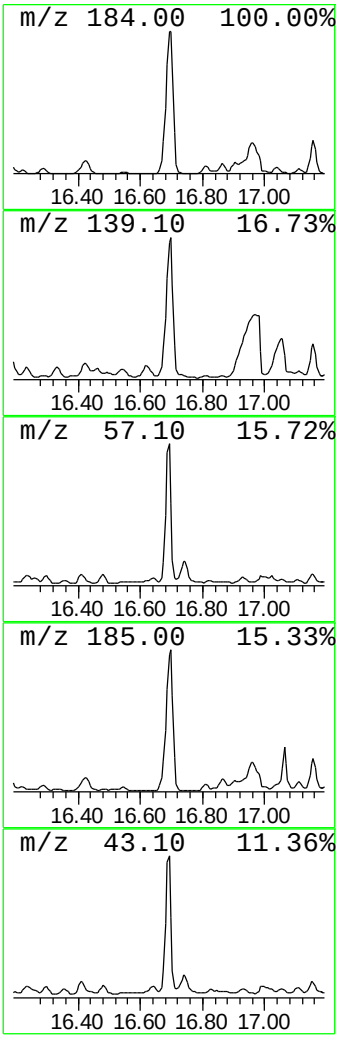
**********

Peak Number 22 Naphtho[2,1-b]thiophene Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.69 | 2.86 ng/ul | 42182300 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 3 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 94 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |
| 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

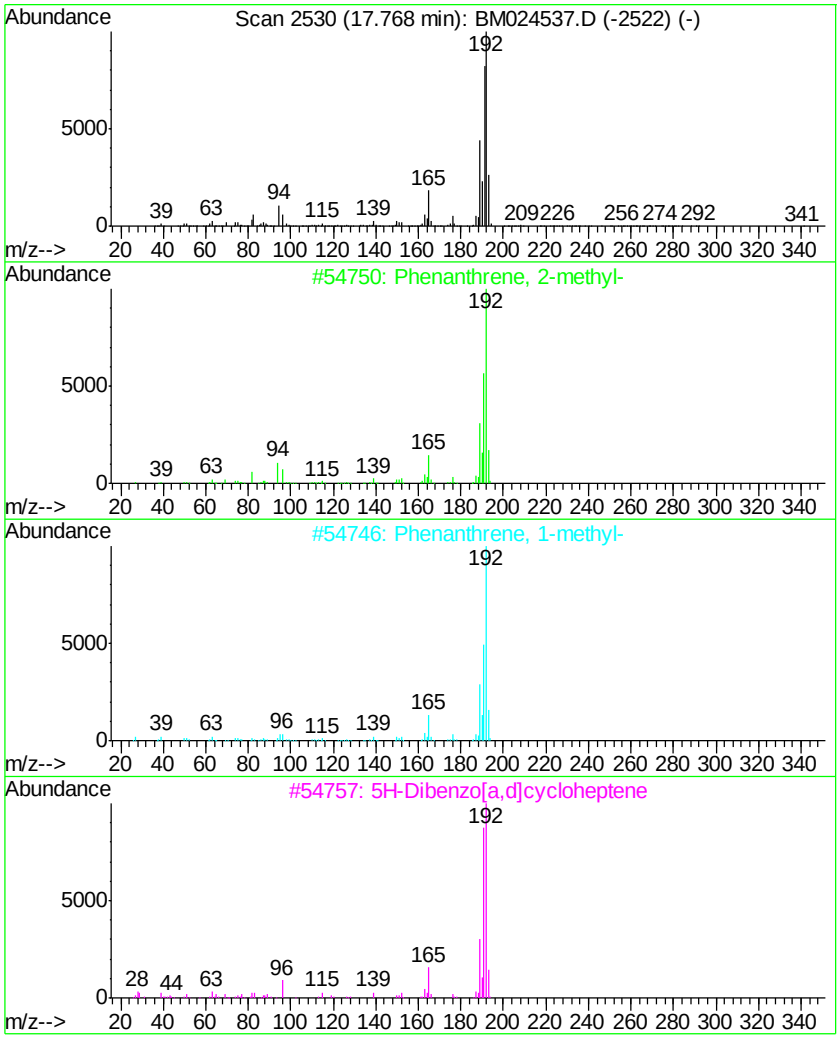
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

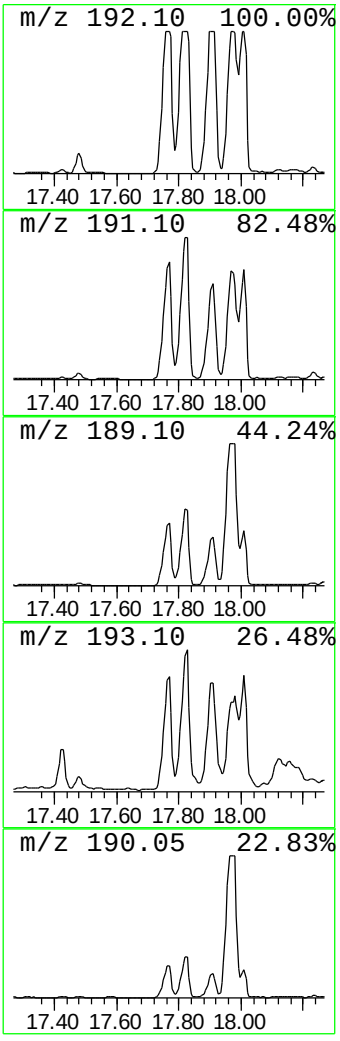
**********

Peak Number 23 Phenanthrene, 2-methyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.77 | 4.39 ng/ul | 64598900 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |
| 3 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 70 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 70 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 70 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

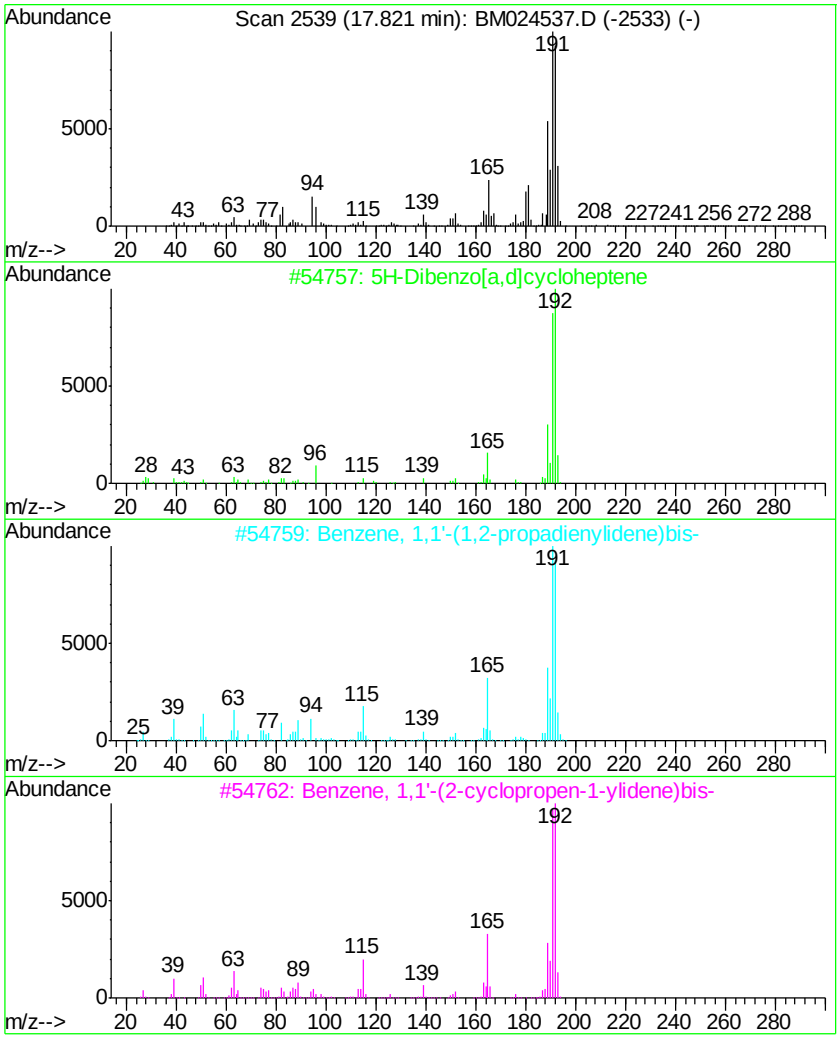
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

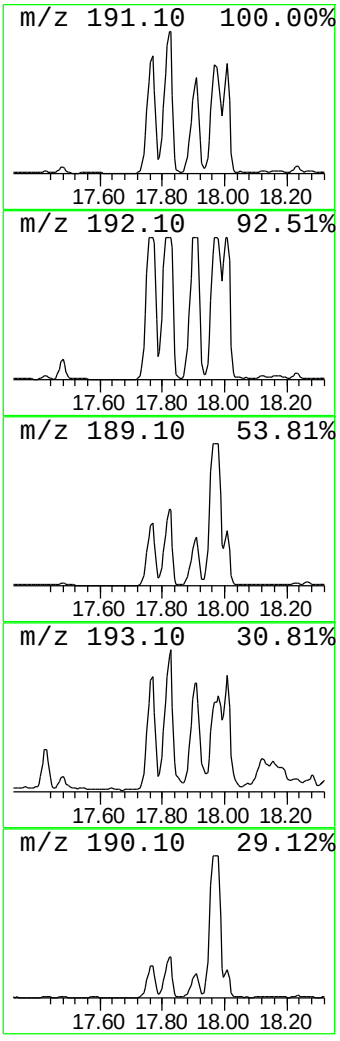
**********

Peak Number 24 5H-Dibenzo[a,d]cycloheptene Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.82 | 6.41 ng/ul | 94319600 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 93 |
| 2 | Benzene, 1,1'-(1,2-propadienylid... | 192 | C15H12 | 014251-57-1 | 60 |
| 3 | Benzene, 1,1'-(2-cyclopropen-1-y... | 192 | C15H12 | 022825-21-4 | 58 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 55 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

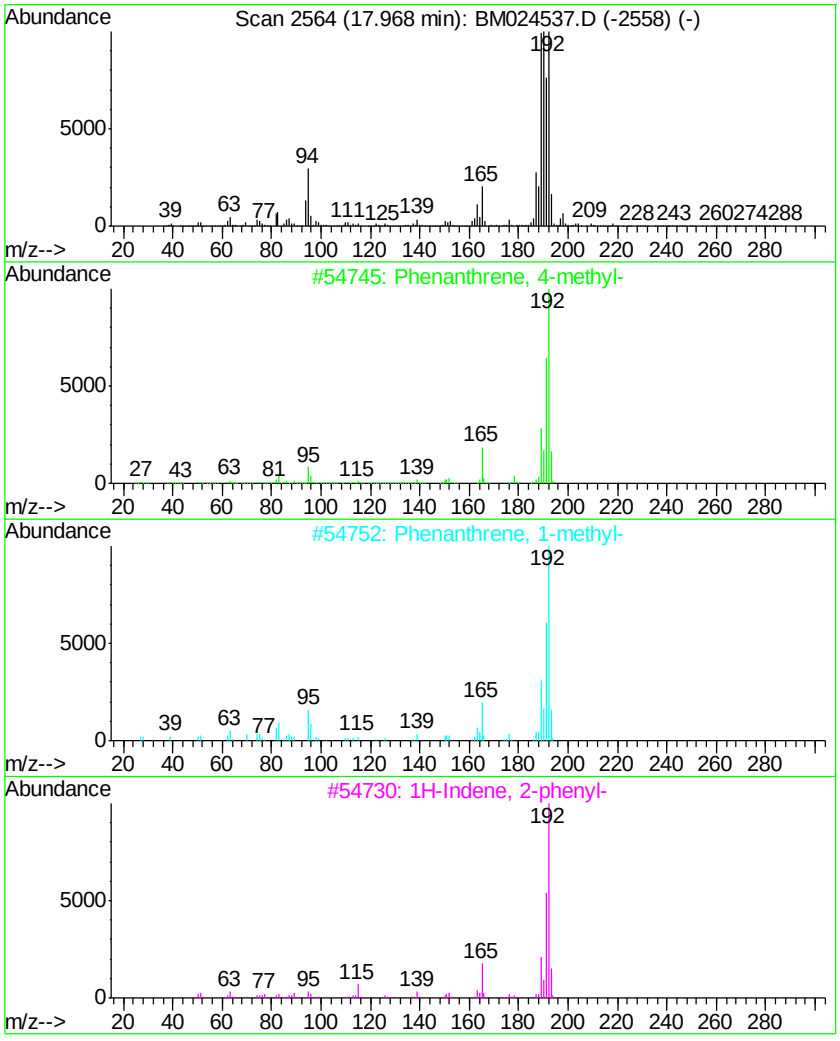
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

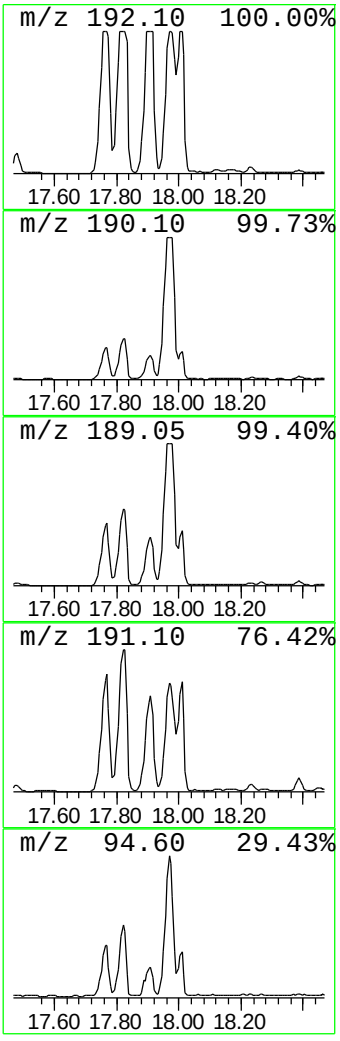
**********

Peak Number 26 unknown-01 Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.97 | 7.82 ng/ul | 115166000 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 46 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 46 |
| 3 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 46 |
| 4 | Propyne, 1,3-diphenyl- | 192 | C15H12 | 004980-70-5 | 41 |
| 5 | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12 | 027410-55-5 | 41 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

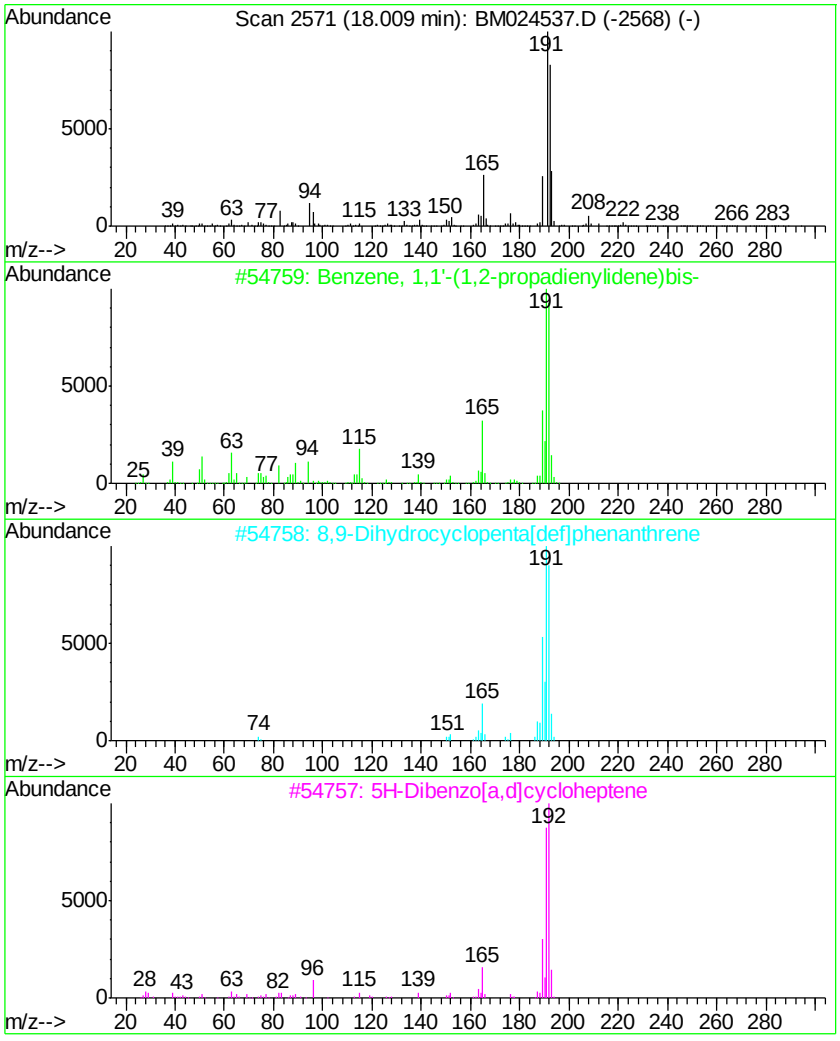
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

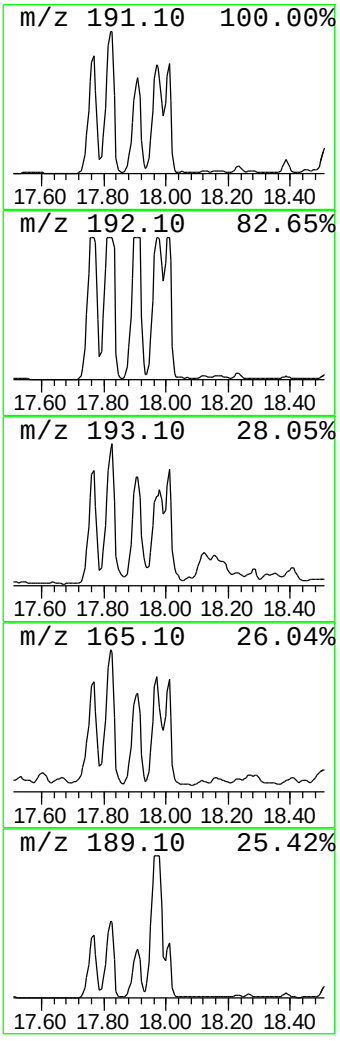
**********

Peak Number 27 Benzene, 1,1'-(1,2-propadie... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.01 | 2.63 ng/ul | 38751900 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,1'-(1,2-propadienylid... | 192 | C15H12 | 014251-57-1 | 81 |
| 2 | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12 | 027410-55-5 | 76 |
| 3 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 53 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 50 |
| 5 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 49 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

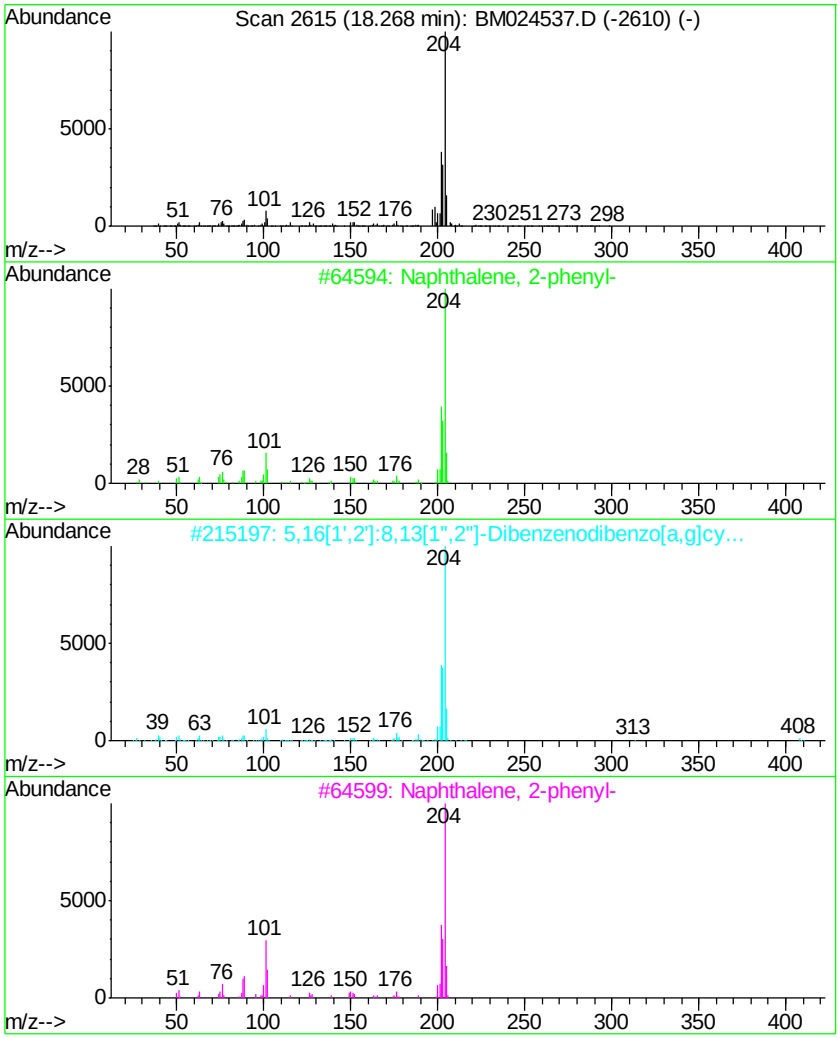
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

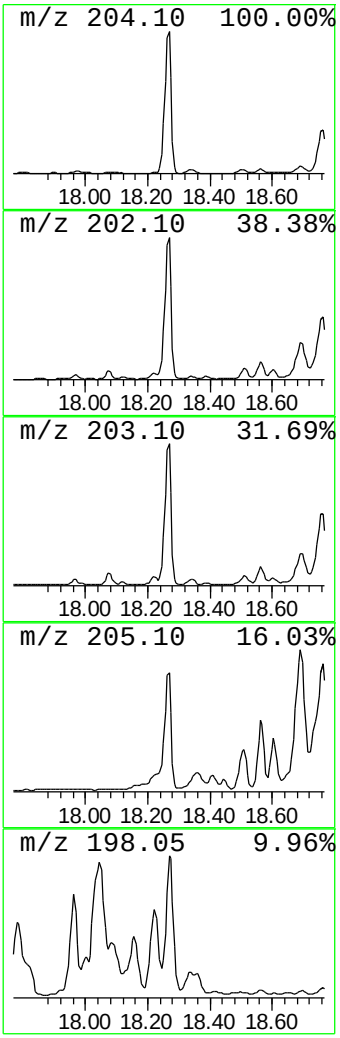
**********

Peak Number 28 Naphthalene, 2-phenyl- Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.27 | 2.57 ng/ul | 37789800 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 90 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 83 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 78 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 58 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

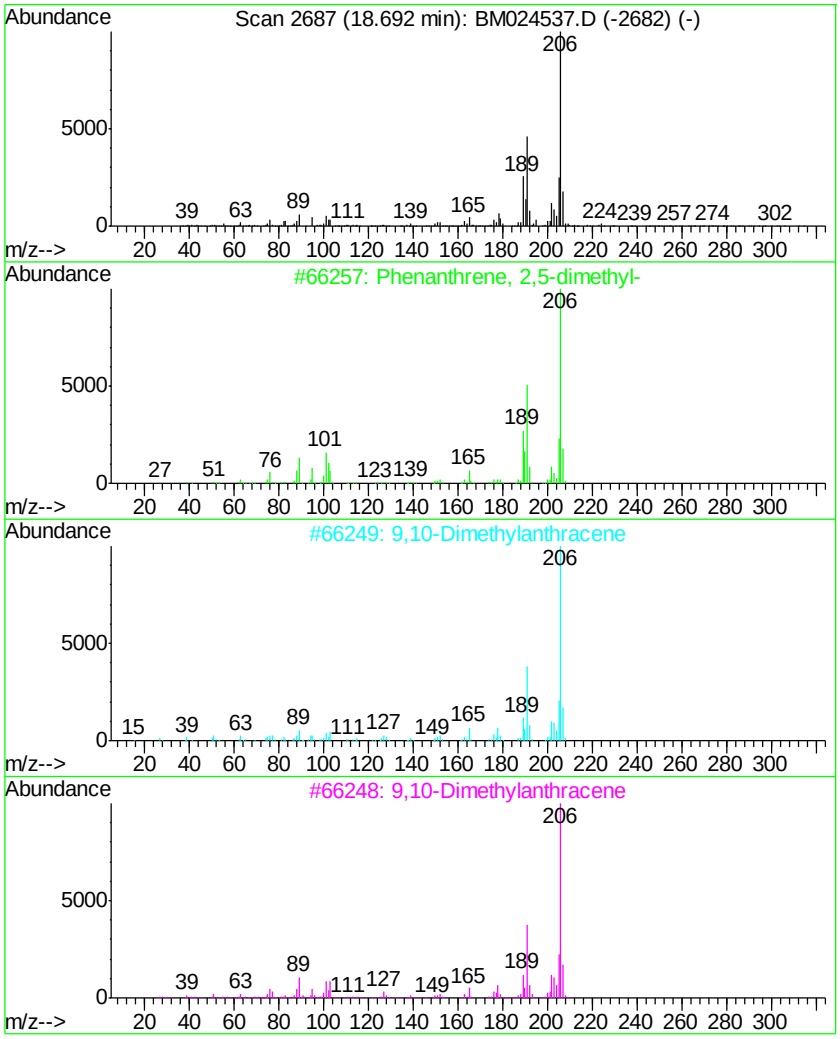
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

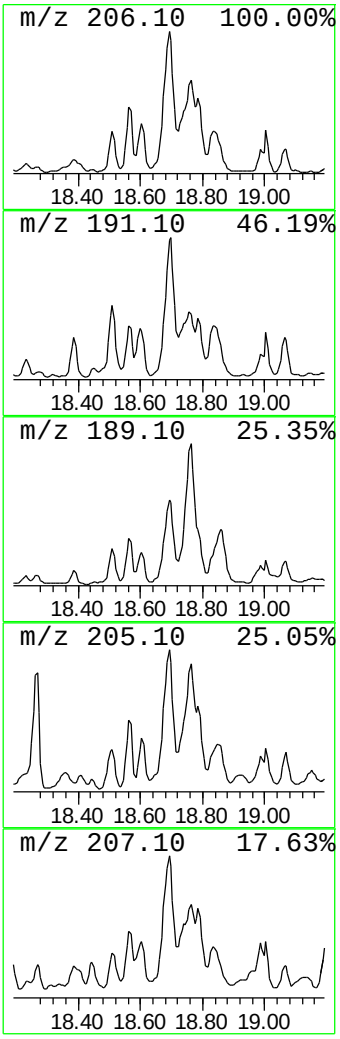
**********

Peak Number 29 Phenanthrene, 2,5-dimethyl- Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.69 | 2.38 ng/ul | 34984800 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 96 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 87 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 87 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

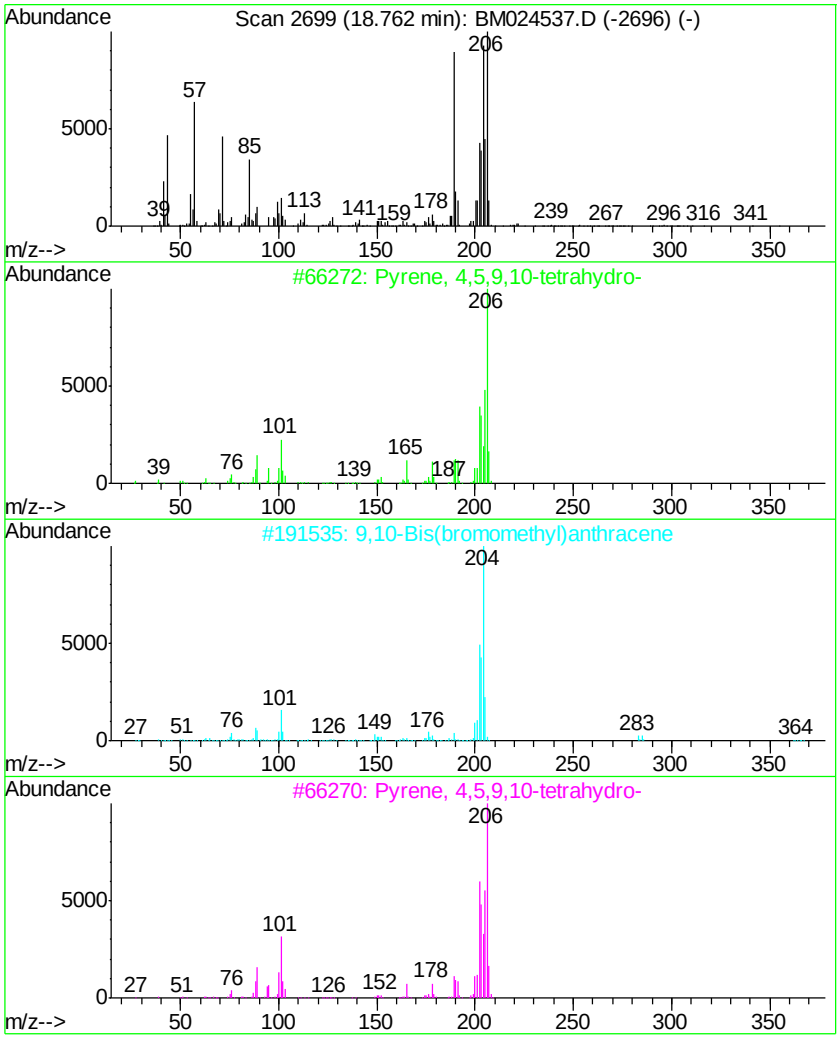
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

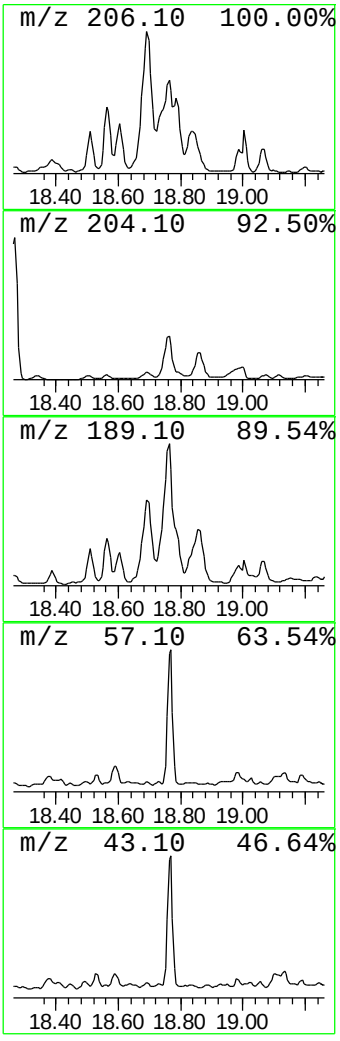
**********

Peak Number 30 unknown-02 Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.76 | 3.25 ng/ul | 47848000 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 47 |
| 2 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 38 |
| 3 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 35 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 35 |
| 5 | 5-Methyl-2-(p-tolylimino)-1,3-th... | 206 | C11H14N2S | 070446-87-6 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

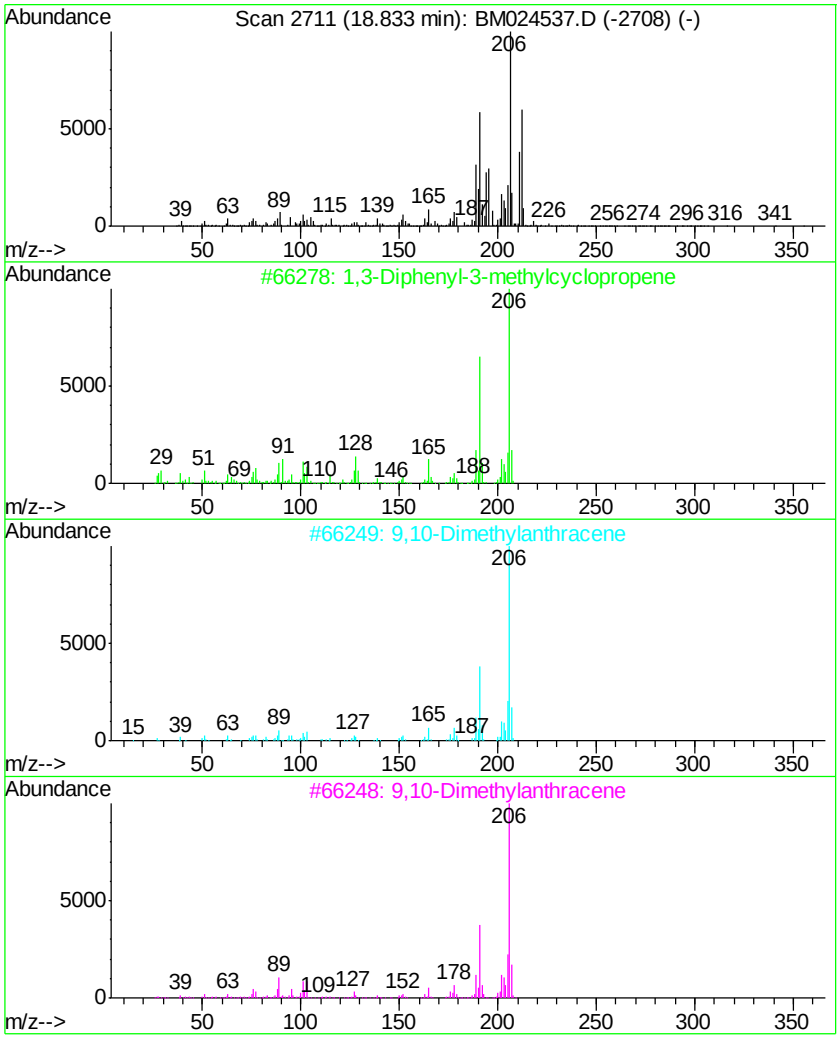
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

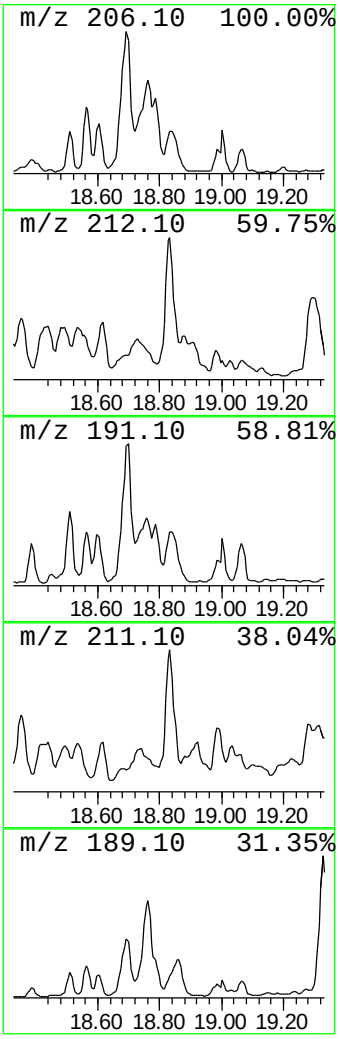
**********

Peak Number 31 1H-Indene, 2-methyl-3-phenyl- Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.83 | 2.34 ng/ul | 34514900 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 70 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 70 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 70 |
| 4 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 64 |
| 5 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 60 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

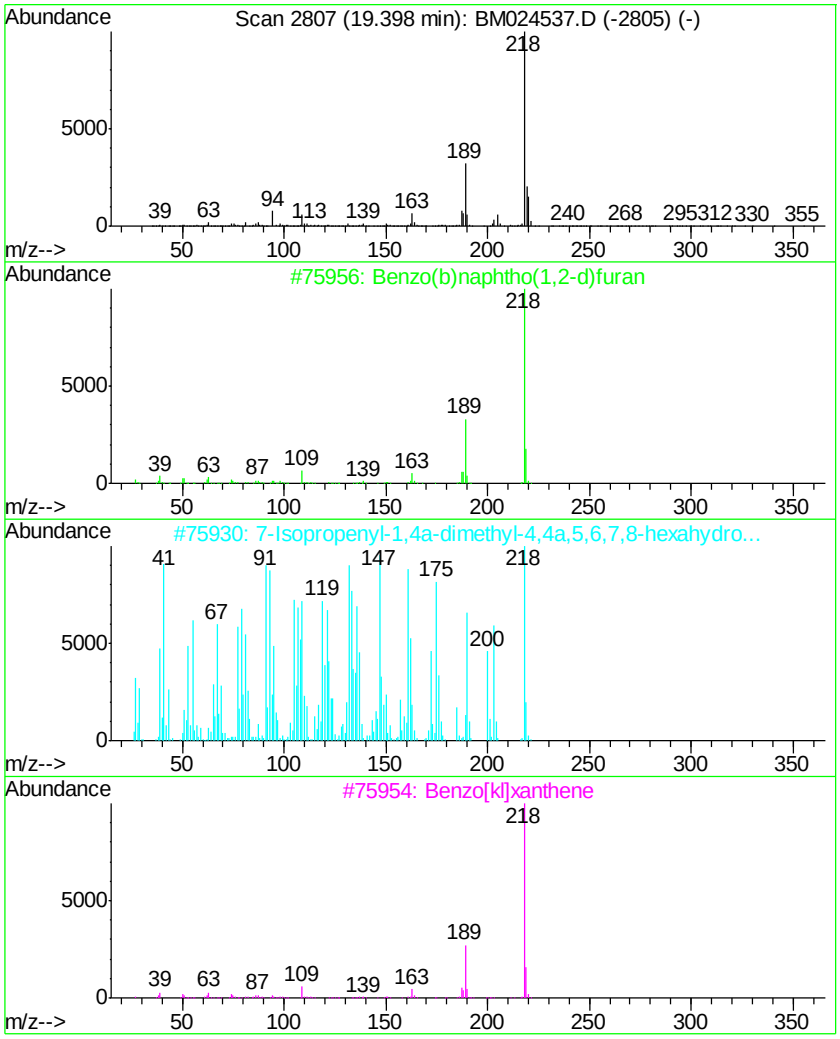
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

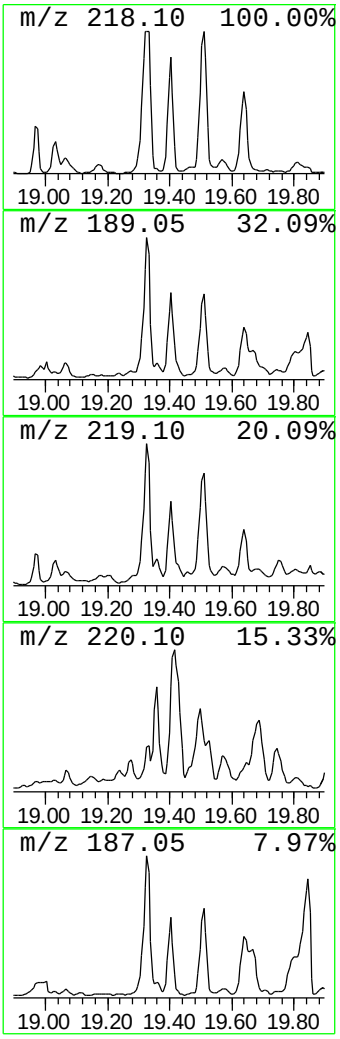
**********

Peak Number 33 Benzo(b)naphtho(1,2-d)furan Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.40 | 3.98 ng/ul | 35705700 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo(b)naphtho(1,2-d)furan | 218 | C16H10O | 000205-39-0 | 95 |
| 2 | 7-Isopropenyl-1,4a-dimethyl-4,4a... | 218 | C15H22O | 000473-08-5 | 86 |
| 3 | Benzo[kl]xanthene | 218 | C16H10O | 000200-23-7 | 86 |
| 4 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 86 |
| 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 70 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

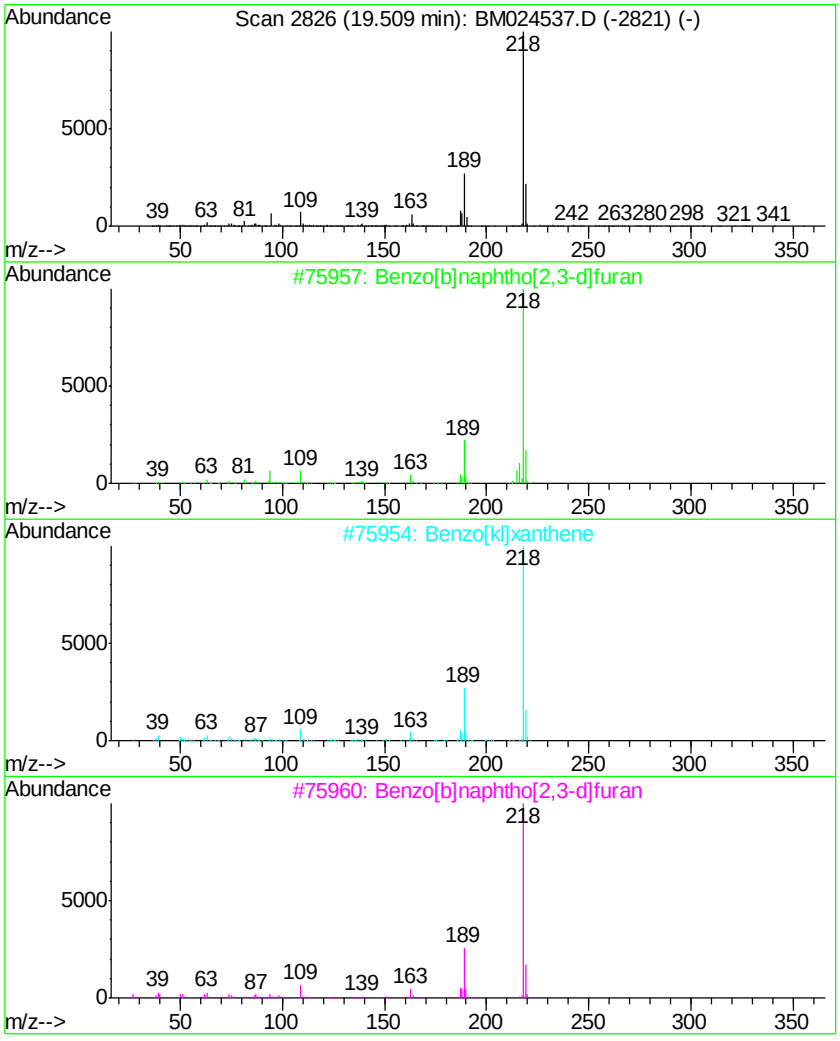
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

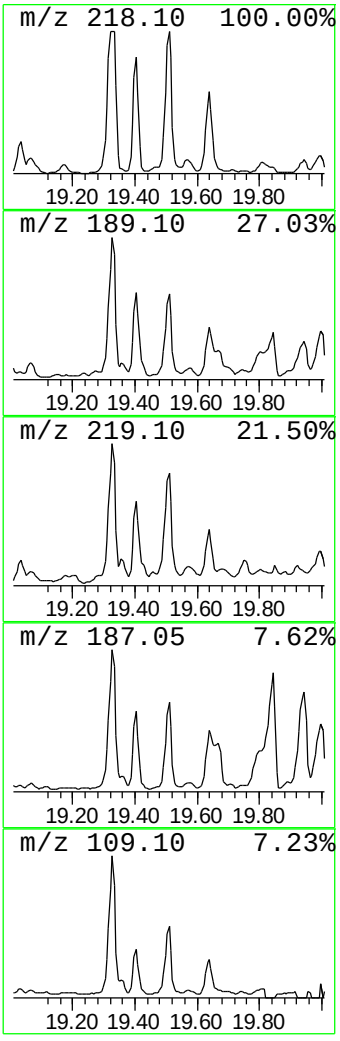
**********

Peak Number 34 Benzo[kl]xanthene Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.51 | 3.03 ng/ul | 27141200 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 94 |
| 2 | Benzo[kl]xanthene | 218 | C16H10O | 000200-23-7 | 93 |
| 3 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 4 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

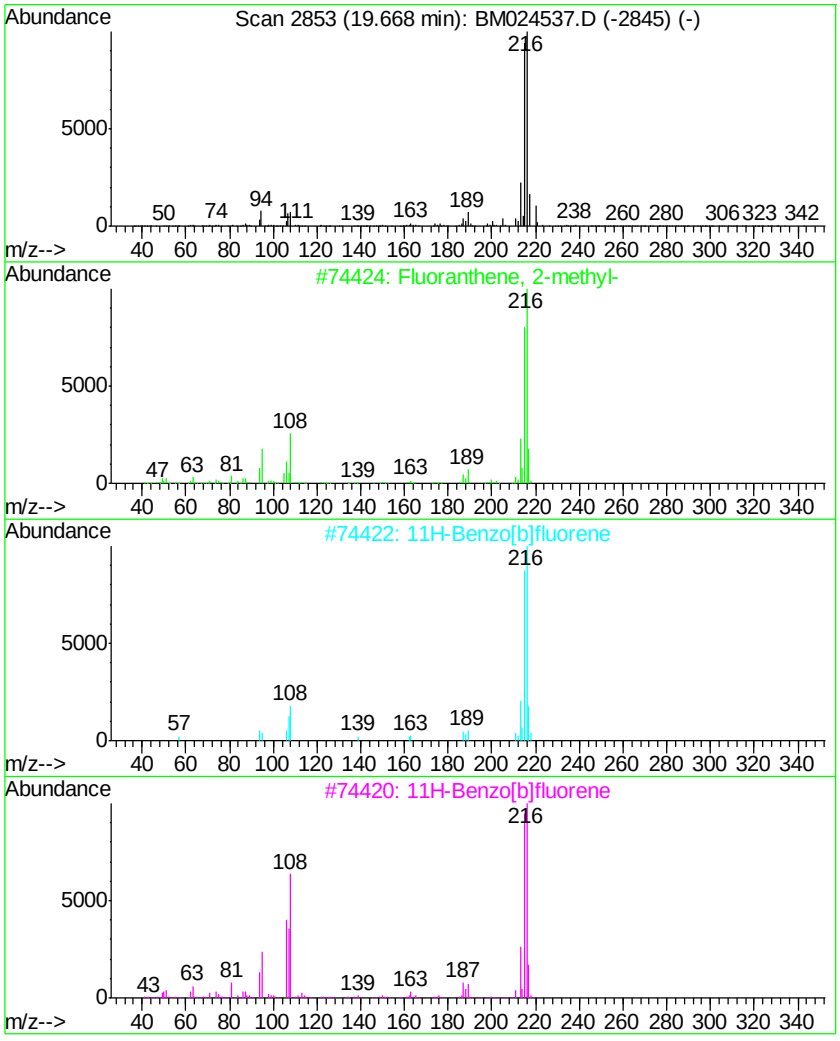
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

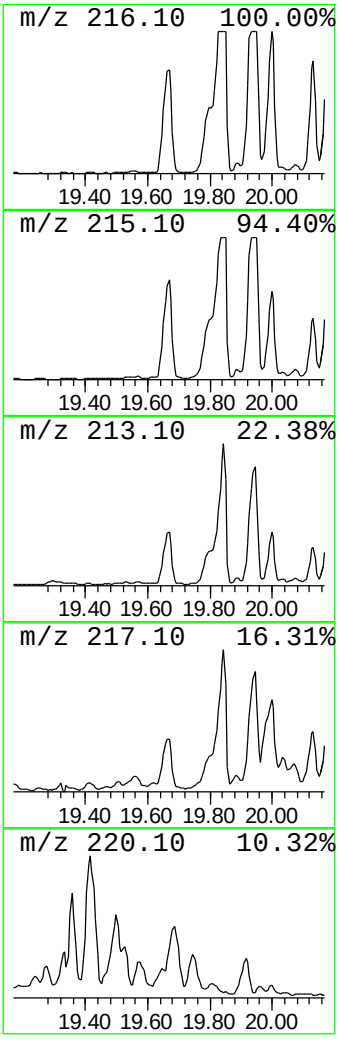
**********

Peak Number 35 Fluoranthene, 2-methyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.67 | 5.14 ng/ul | 46088200 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 81 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 80 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 74 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

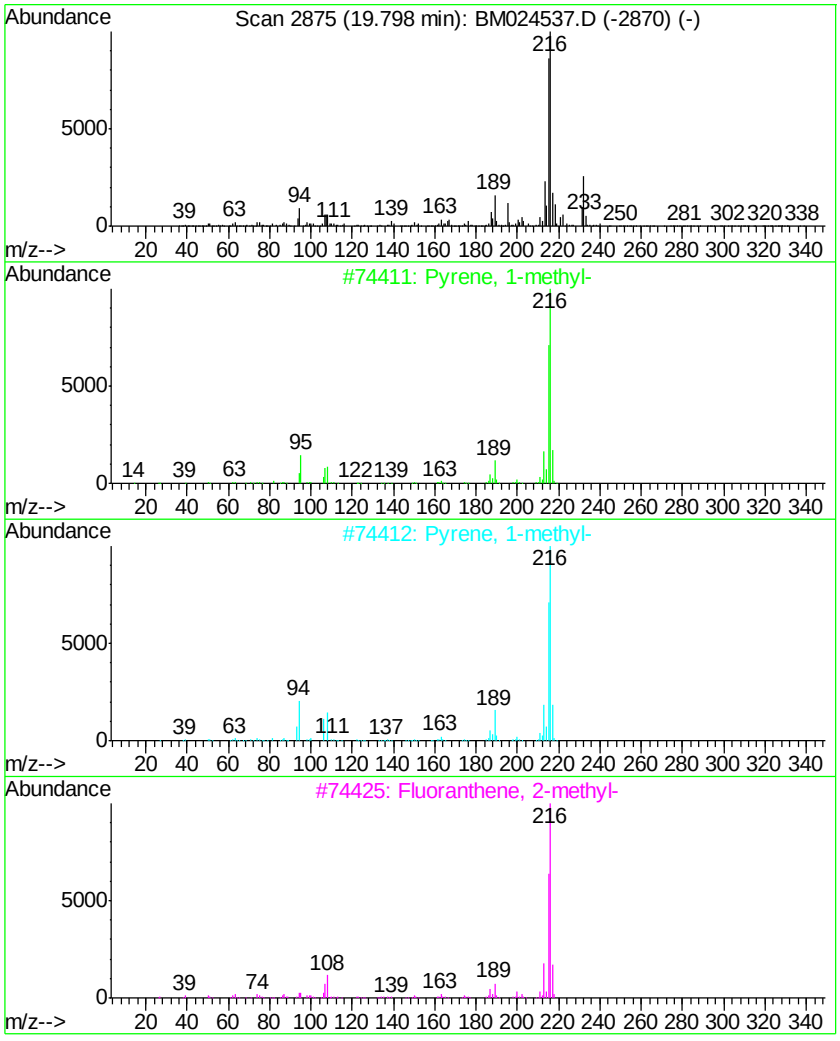
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

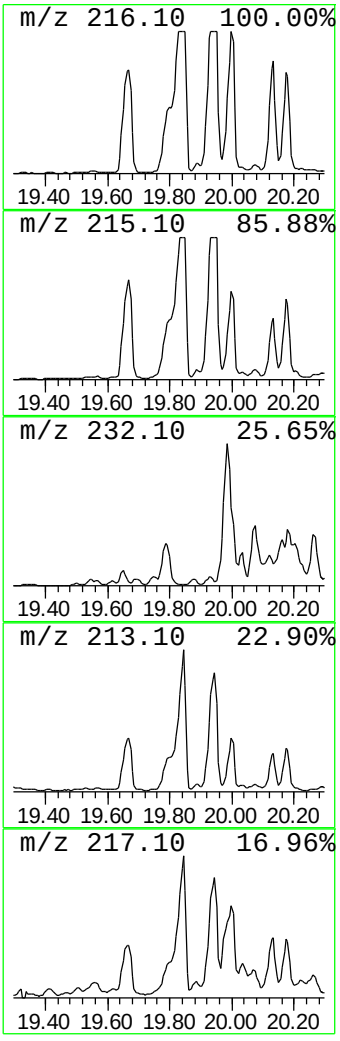
**********

Peak Number 36 Pyrene, 1-methyl- Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.80 | 2.86 ng/ul | 25638900 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 86 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 86 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 81 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 70 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.M
Quant Title : SVOA CALIBRATION

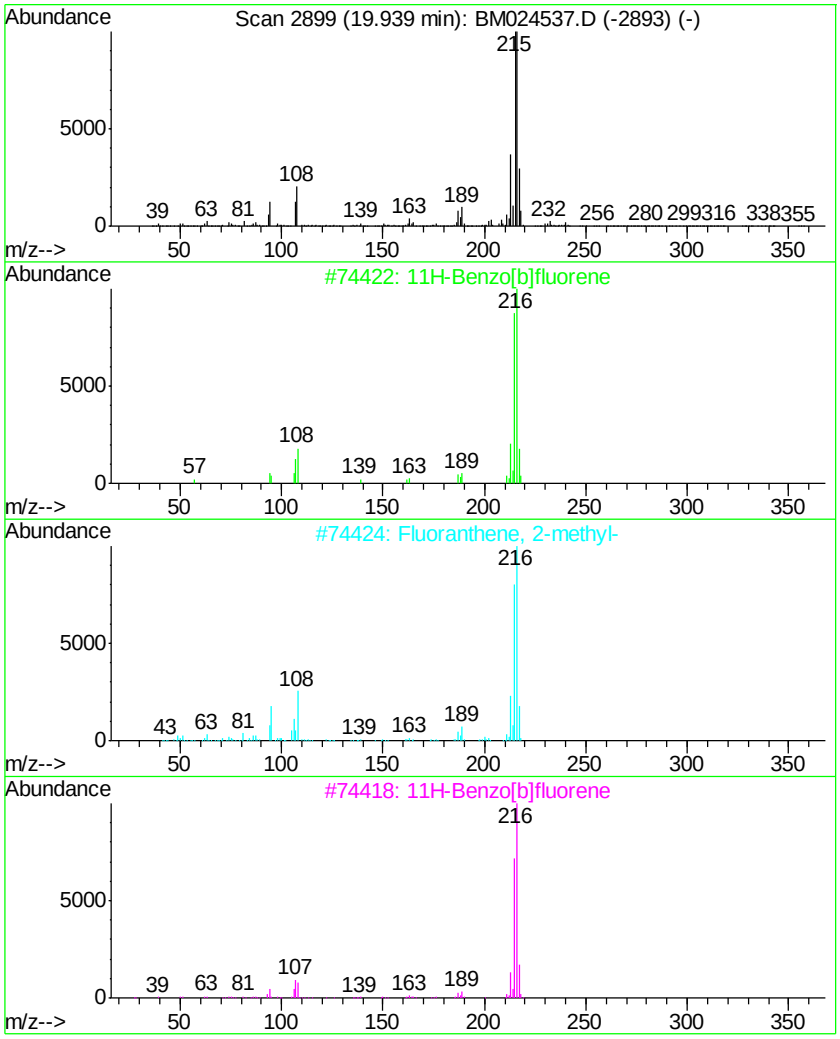
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

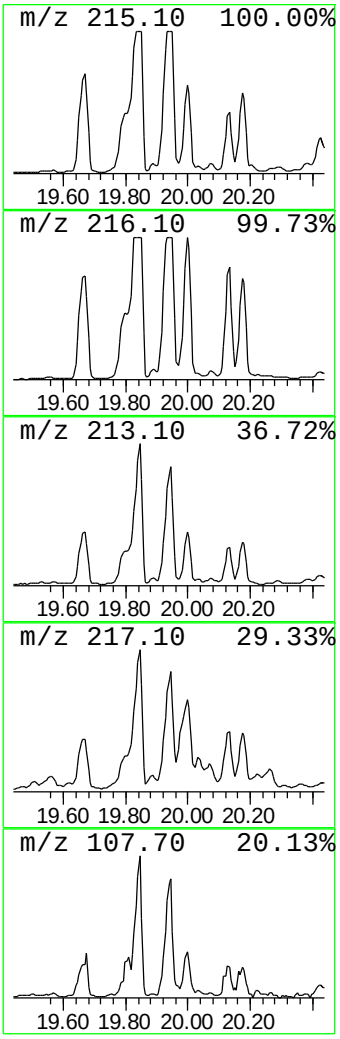
**********

Peak Number 37 11H-Benzo[b]fluorene Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.94 | 8.97 ng/ul | 80381400 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 89 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 70 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 64 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 62 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 53 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM011720\
Data File : BM024537.D
Acq On : 18 Jan 2020 16:00
Operator : JU
Sample : L1109-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** GASH0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM011520MA.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 |
| Benzene, 1,3-dime... | 5.16 | 31.9 | ng/ul | 25730900 | 1 | 7.46 | 16138900 | 20.0 |
| Benzene, 1,2,3-tr... | 7.13 | 32.2 | ng/ul | 26011000 | 1 | 7.46 | 16138900 | 20.0 |
| Benzofuran | 7.19 | 20.0 | ng/ul | 16138900 | 1 | 7.46 | 16138900 | 20.0 |
| Indene | 8.00 | 77.8 | ng/ul | 62772100 | 1 | 7.46 | 16138900 | 20.0 |
| Benzo[b]thiophene | 10.43 | 2.0 | ng/ul | 30560100 | 2 | 10.26 | 302364000 | 20.0 |
| Naphthalene, 1-me... | 12.16 | 6.3 | ng/ul | 95698800 | 2 | 10.26 | 302364000 | 20.0 |
| Naphthalene, 1-et... | 13.14 | 17.1 | ng/ul | 15116000 | 3 | 14.11 | 17698300 | 20.0 |
| Naphthalene, 2,6-... | 13.28 | 42.1 | ng/ul | 37296000 | 3 | 14.11 | 17698300 | 20.0 |
| Naphthalene, 2,3-... | 13.45 | 69.4 | ng/ul | 61383700 | 3 | 14.11 | 17698300 | 20.0 |
| Naphthalene, 1,7-... | 13.68 | 28.4 | ng/ul | 25126000 | 3 | 14.11 | 17698300 | 20.0 |
| Naphthalene, 2,3,... | 14.61 | 16.8 | ng/ul | 14885500 | 3 | 14.11 | 17698300 | 20.0 |
| Naphthalene, 1,4,... | 14.75 | 21.3 | ng/ul | 18835300 | 3 | 14.11 | 17698300 | 20.0 |
| Naphthalene, 1,6,... | 14.90 | 9.1 | ng/ul | 8047210 | 3 | 14.11 | 17698300 | 20.0 |
| 1H-Phenalene | 15.00 | 11.6 | ng/ul | 10263300 | 3 | 14.11 | 17698300 | 20.0 |
| 2,4,6-Cycloheptat... | 15.48 | 38.1 | ng/ul | 33758900 | 3 | 14.11 | 17698300 | 20.0 |
| 9H-Fluorene, 2-me... | 16.19 | 2.0 | ng/ul | 29505400 | 4 | 16.89 | 294495000 | 20.0 |
| Naphtho[2,1-b]thi... | 16.69 | 2.9 | ng/ul | 42182300 | 4 | 16.89 | 294495000 | 20.0 |
| Phenanthrene, 2-m... | 17.77 | 4.4 | ng/ul | 64598900 | 4 | 16.89 | 294495000 | 20.0 |
| 5H-Dibenzo[a,d]cy... | 17.82 | 6.4 | ng/ul | 94319600 | 4 | 16.89 | 294495000 | 20.0 |
| unknown-01 | 17.97 | 7.8 | ng/ul | 115166000 | 4 | 16.89 | 294495000 | 20.0 |
| Benzene, 1,1'-(1,... | 18.01 | 2.6 | ng/ul | 38751900 | 4 | 16.89 | 294495000 | 20.0 |
| Naphthalene, 2-ph... | 18.27 | 2.6 | ng/ul | 37789800 | 4 | 16.89 | 294495000 | 20.0 |
| Phenanthrene, 2,5... | 18.69 | 2.4 | ng/ul | 34984800 | 4 | 16.89 | 294495000 | 20.0 |
| unknown-02 | 18.76 | 3.3 | ng/ul | 47848000 | 4 | 16.89 | 294495000 | 20.0 |
| 1H-Indene, 2-meth... | 18.83 | 2.3 | ng/ul | 34514900 | 4 | 16.89 | 294495000 | 20.0 |
| Benzo(b)naphtho(1... | 19.40 | 4.0 | ng/ul | 35705700 | 5 | 21.12 | 179220000 | 20.0 |
| Benzo[kl]xanthene | 19.51 | 3.0 | ng/ul | 27141200 | 5 | 21.12 | 179220000 | 20.0 |
| Fluoranthene, 2-m... | 19.67 | 5.1 | ng/ul | 46088200 | 5 | 21.12 | 179220000 | 20.0 |
| Pyrene, 1-methyl- | 19.80 | 2.9 | ng/ul | 25638900 | 5 | 21.12 | 179220000 | 20.0 |
| 11H-Benzo[b]fluorene | 19.94 | 9.0 | ng/ul | 80381400 | 5 | 21.12 | 179220000 | 20.0 |