LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.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 | 7.646 | 734 | 741 | 754 | rBV2 | 2748676 | 5061965 | 2.92% | 0.451% |
| 2 | 7.828 | 766 | 772 | 778 | rVB2 | 1440214 | 2380372 | 1.37% | 0.212% |
| 3 | 8.046 | 803 | 809 | 817 | rVV2 | 1772457 | 3885231 | 2.24% | 0.347% |
| 4 | 8.481 | 877 | 883 | 887 | rVV | 2455506 | 4098891 | 2.36% | 0.366% |
| 5 | 8.528 | 887 | 891 | 895 | rVV | 1417924 | 2344861 | 1.35% | 0.209% |
| 6 | 9.040 | 971 | 978 | 982 | rBV2 | 1144141 | 2138697 | 1.23% | 0.191% |
| 7 | 9.099 | 982 | 988 | 994 | rVB | 1401149 | 2577306 | 1.49% | 0.230% |
| 8 | 9.222 | 1004 | 1009 | 1014 | rVB | 1778887 | 2934818 | 1.69% | 0.262% |
| 9 | 9.710 | 1086 | 1092 | 1095 | rBV | 1344441 | 2515575 | 1.45% | 0.224% |
| 10 | 9.893 | 1111 | 1123 | 1130 | rBV6 | 1064803 | 2921125 | 1.68% | 0.261% |
| 11 | 10.434 | 1203 | 1215 | 1218 | rBV2 | 2861912 | 5556668 | 3.20% | 0.496% |
| 12 | 10.469 | 1218 | 1221 | 1228 | rVB2 | 1482678 | 2303227 | 1.33% | 0.205% |
| 13 | 10.546 | 1228 | 1234 | 1238 | rBV | 2259922 | 3693447 | 2.13% | 0.329% |
| 14 | 10.699 | 1252 | 1260 | 1265 | rBV2 | 1730812 | 3479588 | 2.00% | 0.310% |
| 15 | 10.810 | 1273 | 1279 | 1284 | rVB2 | 2005376 | 3117366 | 1.80% | 0.278% |
| 16 | 10.928 | 1296 | 1299 | 1303 | rVV | 1369849 | 2246247 | 1.29% | 0.200% |
| 17 | 10.975 | 1303 | 1307 | 1314 | rVV | 1806359 | 2981244 | 1.72% | 0.266% |
| 18 | 11.046 | 1314 | 1319 | 1327 | rVB | 1959934 | 3342517 | 1.93% | 0.298% |
| 19 | 11.375 | 1370 | 1375 | 1380 | rVV2 | 2154799 | 4645933 | 2.68% | 0.414% |
| 20 | 11.493 | 1388 | 1395 | 1402 | rVB | 2173150 | 3902023 | 2.25% | 0.348% |
| 21 | 12.993 | 1644 | 1650 | 1659 | rVB | 1665742 | 2573259 | 1.48% | 0.230% |
| 22 | 13.969 | 1811 | 1816 | 1822 | rVB | 1868599 | 2727084 | 1.57% | 0.243% |
| 23 | 14.169 | 1838 | 1850 | 1861 | rVB | 2638821 | 4641510 | 2.67% | 0.414% |
| 24 | 14.298 | 1865 | 1872 | 1873 | rBV | 4032595 | 5978336 | 3.44% | 0.533% |
| 25 | 14.457 | 1892 | 1899 | 1903 | rBV | 5086029 | 8809539 | 5.08% | 0.786% |
| 26 | 14.510 | 1903 | 1908 | 1913 | rVV2 | 5077694 | 8718093 | 5.02% | 0.778% |
| 27 | 14.687 | 1932 | 1938 | 1942 | rBV | 2632551 | 3947359 | 2.27% | 0.352% |
| 28 | 14.828 | 1956 | 1962 | 1974 | rVB3 | 3504401 | 7729588 | 4.45% | 0.689% |
| 29 | 15.087 | 1997 | 2006 | 2010 | rBV | 4249117 | 6224784 | 3.59% | 0.555% |
| 30 | 15.128 | 2010 | 2013 | 2018 | rVV2 | 2486559 | 3771705 | 2.17% | 0.336% |
| 31 | 15.198 | 2018 | 2025 | 2030 | rVB | 15693929 | 23542486 | 13.57% | 2.100% |
| 32 | 15.322 | 2042 | 2046 | 2055 | rVB | 1346693 | 3000350 | 1.73% | 0.268% |
| 33 | 15.434 | 2055 | 2065 | 2073 | rBV2 | 2025580 | 4573537 | 2.64% | 0.408% |
| 34 | 15.522 | 2073 | 2080 | 2086 | rVV | 14477229 | 23023985 | 13.27% | 2.053% |

LSC Area Percent Report

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Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.587 | 2086 | 2091 | 2100 | rVV | 2076473 | 3191689 | 1.84% | 0.285% |
| 36 | 15.728 | 2108 | 2115 | 2119 | rBV | 1484009 | 2563955 | 1.48% | 0.229% |
| 37 | 15.898 | 2135 | 2144 | 2146 | rBV2 | 1261658 | 2645205 | 1.52% | 0.236% |
| 38 | 16.104 | 2175 | 2179 | 2184 | rVV | 3774558 | 6139093 | 3.54% | 0.548% |
| 39 | 16.169 | 2184 | 2190 | 2195 | rVV | 30623809 | 49970756 | 28.79% | 4.457% |
| 40 | 16.251 | 2201 | 2204 | 2207 | rVV | 2023614 | 3205379 | 1.85% | 0.286% |
| 41 | 16.286 | 2207 | 2210 | 2212 | rVV | 2826790 | 4058249 | 2.34% | 0.362% |
| 42 | 16.322 | 2212 | 2216 | 2221 | rVV2 | 6908947 | 10829246 | 6.24% | 0.966% |
| 43 | 16.410 | 2227 | 2231 | 2234 | rVV | 3594115 | 5742480 | 3.31% | 0.512% |
| 44 | 16.445 | 2234 | 2237 | 2244 | rVB | 7664609 | 10479492 | 6.04% | 0.935% |
| 45 | 16.592 | 2255 | 2262 | 2269 | rBV | 7588080 | 15313105 | 8.82% | 1.366% |
| 46 | 16.792 | 2288 | 2296 | 2310 | rVB3 | 1119365 | 2809510 | 1.62% | 0.251% |
| 47 | 16.939 | 2316 | 2321 | 2327 | rVB | 2896687 | 3984328 | 2.30% | 0.355% |
| 48 | 17.145 | 2345 | 2356 | 2361 | rBV2 | 5213413 | 10400092 | 5.99% | 0.928% |
| 49 | 17.198 | 2361 | 2365 | 2370 | rVB2 | 1514295 | 2302408 | 1.33% | 0.205% |
| 50 | 17.298 | 2375 | 2382 | 2386 | rVB3 | 1957239 | 3687352 | 2.12% | 0.329% |
| 51 | 17.369 | 2386 | 2394 | 2397 | rBV2 | 1592614 | 3716445 | 2.14% | 0.331% |
| 52 | 17.569 | 2422 | 2428 | 2433 | rBV2 | 1667657 | 3547812 | 2.04% | 0.316% |
| 53 | 17.669 | 2438 | 2445 | 2463 | rVB | 12203543 | 19367296 | 11.16% | 1.727% |
| 54 | 17.922 | 2469 | 2488 | 2492 | rBV2 | 59750757 | 173547796 | 100.00% | 15.479% |
| 55 | 17.957 | 2492 | 2494 | 2495 | rVV | 4710914 | 4543765 | 2.62% | 0.405% |
| 56 | 17.992 | 2495 | 2500 | 2504 | rVV | 24599536 | 36270894 | 20.90% | 3.235% |
| 57 | 18.033 | 2504 | 2507 | 2515 | rVV | 3279675 | 4887668 | 2.82% | 0.436% |
| 58 | 18.345 | 2555 | 2560 | 2566 | rBV | 2061814 | 2901415 | 1.67% | 0.259% |
| 59 | 18.416 | 2567 | 2572 | 2581 | rVB2 | 1229304 | 2324175 | 1.34% | 0.207% |
| 60 | 18.704 | 2611 | 2621 | 2625 | rBV | 9804432 | 15283129 | 8.81% | 1.363% |
| 61 | 18.751 | 2625 | 2629 | 2635 | rVB | 12740332 | 17197821 | 9.91% | 1.534% |
| 62 | 18.827 | 2635 | 2642 | 2647 | rBV | 4528987 | 6752046 | 3.89% | 0.602% |
| 63 | 18.904 | 2647 | 2655 | 2665 | rVB2 | 20520751 | 40138576 | 23.13% | 3.580% |
| 64 | 19.180 | 2696 | 2702 | 2706 | rBV | 7685647 | 10448586 | 6.02% | 0.932% |
| 65 | 19.580 | 2765 | 2770 | 2775 | rBV2 | 2139532 | 3954195 | 2.28% | 0.353% |
| 66 | 19.651 | 2778 | 2782 | 2790 | rVB2 | 1725028 | 3724670 | 2.15% | 0.332% |
| 67 | 19.869 | 2809 | 2819 | 2823 | rBV2 | 51407990 | 100717998 | 58.03% | 8.983% |
| 68 | 20.092 | 2850 | 2857 | 2865 | rVB2 | 2791248 | 5159233 | 2.97% | 0.460% |
| 69 | 20.180 | 2865 | 2872 | 2874 | rBV2 | 17222927 | 27950850 | 16.11% | 2.493% |
| 70 | 20.221 | 2874 | 2879 | 2884 | rVV2 | 43011780 | 75525466 | 43.52% | 6.736% |
| 71 | 20.269 | 2884 | 2887 | 2890 | rVB | 2235693 | 2610997 | 1.50% | 0.233% |

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Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.374 | 2900 | 2905 | 2909 | rVB | 3833893 | 4909202 | 2.83% | 0.438% |
| 73 | 20.439 | 2909 | 2916 | 2921 | rVB | 1730662 | 2599789 | 1.50% | 0.232% |
| 74 | 20.510 | 2921 | 2928 | 2935 | rBV3 | 3063157 | 7378366 | 4.25% | 0.658% |
| 75 | 20.680 | 2945 | 2957 | 2962 | rBV | 10480618 | 17255240 | 9.94% | 1.539% |
| 76 | 20.780 | 2968 | 2974 | 2978 | rBV | 12152216 | 17094986 | 9.85% | 1.525% |
| 77 | 20.839 | 2981 | 2984 | 2987 | rVV | 3161229 | 4018108 | 2.32% | 0.358% |
| 78 | 21.186 | 3039 | 3043 | 3050 | rBV3 | 1866658 | 2700893 | 1.56% | 0.241% |
| 79 | 21.363 | 3069 | 3073 | 3078 | rBV | 2952963 | 3935059 | 2.27% | 0.351% |
| 80 | 21.574 | 3104 | 3109 | 3112 | rBV | 3311067 | 4983592 | 2.87% | 0.444% |
| 81 | 21.610 | 3112 | 3115 | 3118 | rVB | 3197581 | 3819445 | 2.20% | 0.341% |
| 82 | 21.651 | 3118 | 3122 | 3126 | rBV2 | 3602588 | 4824114 | 2.78% | 0.430% |
| 83 | 21.792 | 3141 | 3146 | 3157 | rBV | 14975000 | 19445980 | 11.20% | 1.734% |
| 84 | 21.916 | 3157 | 3167 | 3173 | rVV2 | 23191621 | 43137197 | 24.86% | 3.847% |
| 85 | 21.974 | 3173 | 3177 | 3186 | rVB | 18189051 | 25107408 | 14.47% | 2.239% |
| 86 | 22.098 | 3193 | 3198 | 3203 | rBV | 3785814 | 5287994 | 3.05% | 0.472% |
| 87 | 22.263 | 3221 | 3226 | 3232 | rBV | 2869398 | 4362271 | 2.51% | 0.389% |
| 88 | 22.521 | 3263 | 3270 | 3274 | rVV | 2156669 | 4666907 | 2.69% | 0.416% |
| 89 | 22.698 | 3295 | 3300 | 3304 | rVV2 | 1485185 | 2562230 | 1.48% | 0.229% |
| 90 | 22.751 | 3304 | 3309 | 3312 | rVV2 | 1752615 | 3546497 | 2.04% | 0.316% |
| 91 | 22.780 | 3312 | 3314 | 3320 | rVV | 1869664 | 2662308 | 1.53% | 0.237% |
| 92 | 23.662 | 3457 | 3464 | 3470 | rBV | 6722734 | 18560109 | 10.69% | 1.655% |
| 93 | 23.851 | 3491 | 3496 | 3502 | rBV | 1685504 | 3074710 | 1.77% | 0.274% |
| 94 | 24.204 | 3550 | 3556 | 3561 | rBV | 3467890 | 7266115 | 4.19% | 0.648% |
| 95 | 24.262 | 3561 | 3566 | 3570 | rVV | 3170115 | 6357861 | 3.66% | 0.567% |
| 96 | 24.315 | 3570 | 3575 | 3582 | rVB | 6097981 | 11843656 | 6.82% | 1.056% |
| 97 | 24.421 | 3587 | 3593 | 3598 | rVV | 2307402 | 4838884 | 2.79% | 0.432% |
| 98 | 24.474 | 3598 | 3602 | 3610 | rVB | 1608111 | 3345649 | 1.93% | 0.298% |
| 99 | 26.998 | 4023 | 4031 | 4045 | rVB | 1721950 | 5572272 | 3.21% | 0.497% |
| 100 | 27.797 | 4160 | 4167 | 4179 | rVB2 | 872232 | 2774721 | 1.60% | 0.247% |

Sum of corrected areas: 1121213451

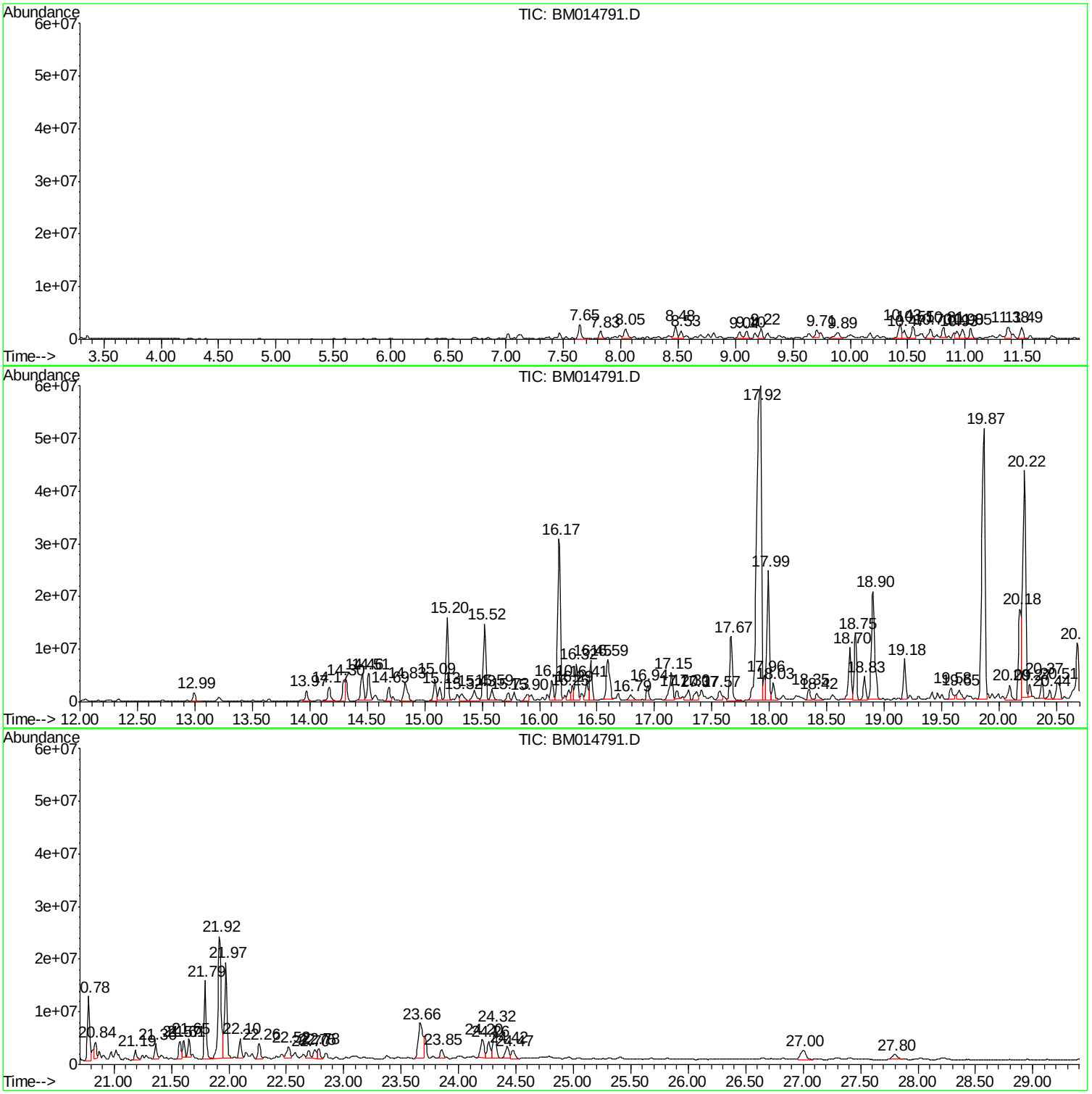
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

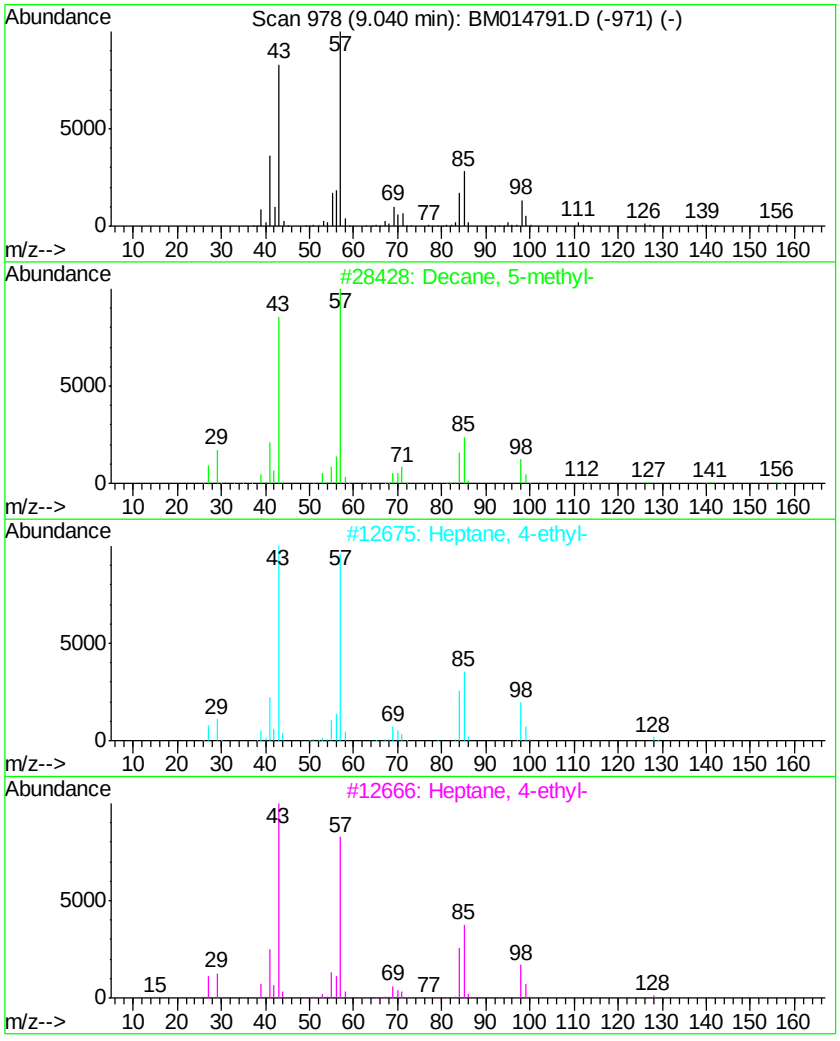
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

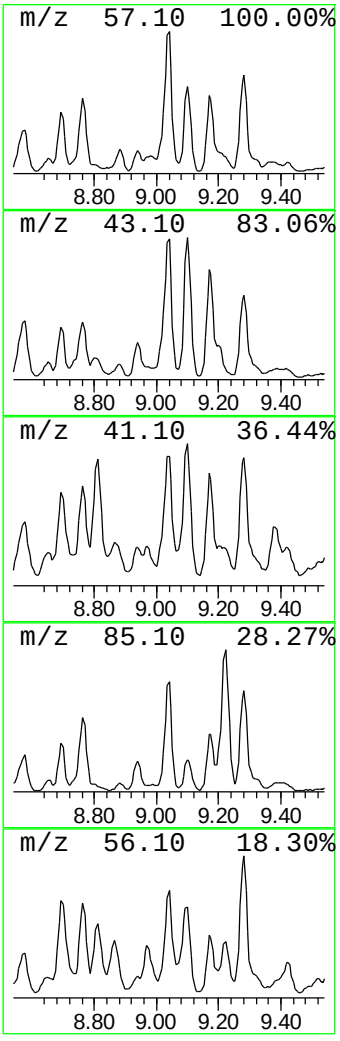
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.04 | 18.24 ng/ul | 2138700 | 1,4-Dichlorobenzene-d4 | 8.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 5-methyl- | 156 | C11H24 | 013151-35-4 | 90 |
| 2 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 72 |
| 3 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 72 |
| 4 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 72 |
| 5 | Hexane, 1-(hexyloxy)-4-methyl- | 200 | C13H28O | 074421-20-8 | 64 |



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Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

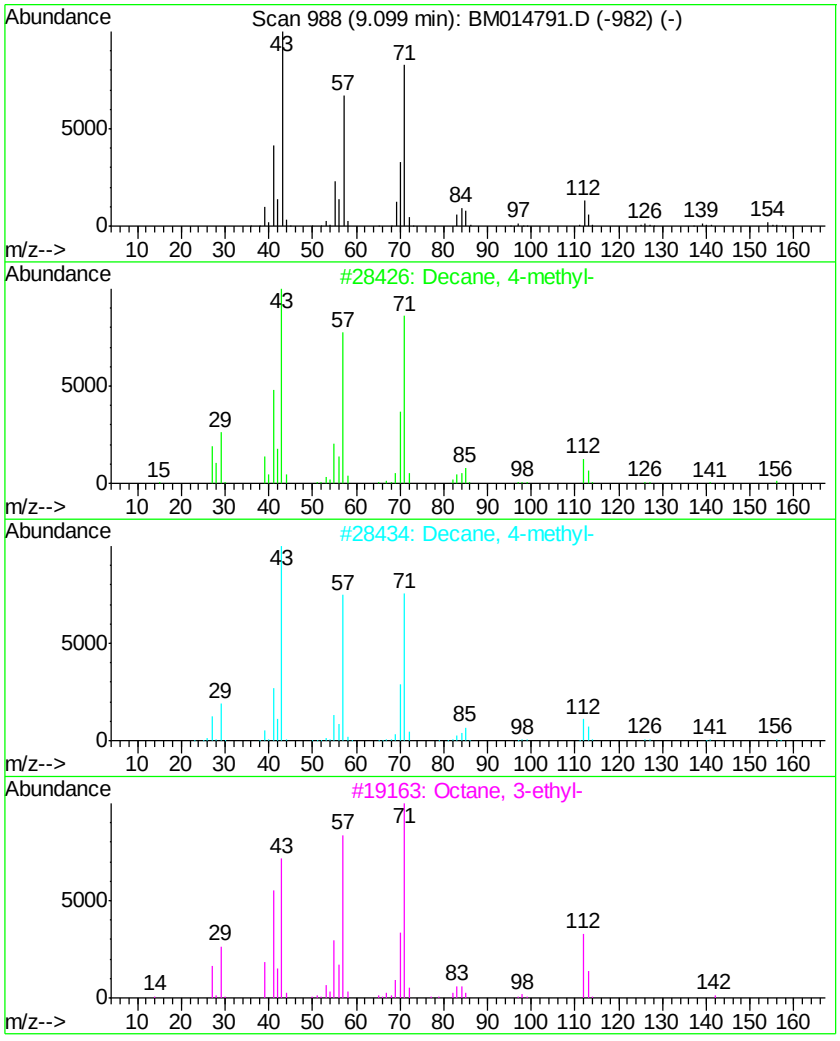
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

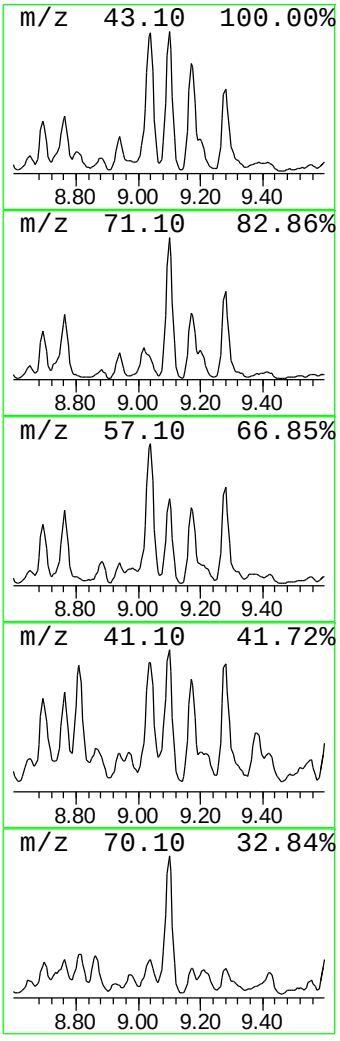
**********

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.10 | 21.98 ng/ul | 2577310 | 1,4-Dichlorobenzene-d4 | 8.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 90 |
| 2 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 90 |
| 3 | Octane, 3-ethyl- | 142 | C10H22 | 005881-17-4 | 83 |
| 4 | Carbonic acid, neopentyl 2-ethyl... | 244 | C14H28O3 | 1000357-85-7 | 83 |
| 5 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 78 |



# Library Search Compound Report

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Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

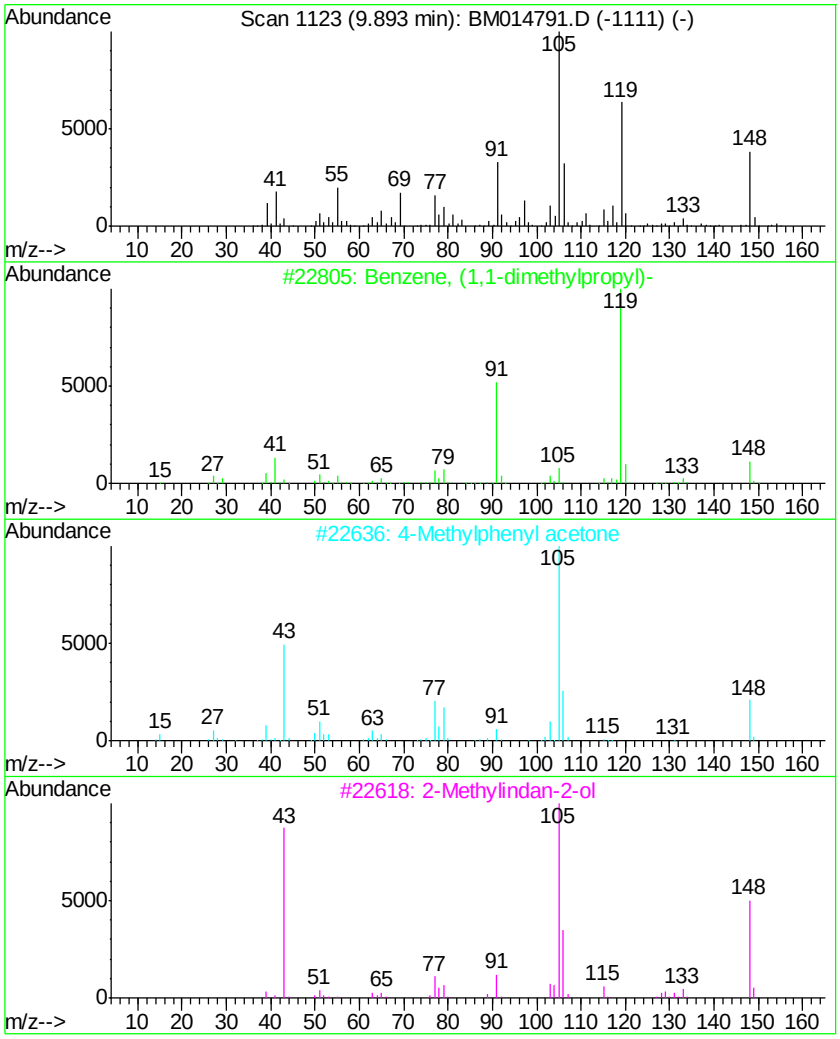
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

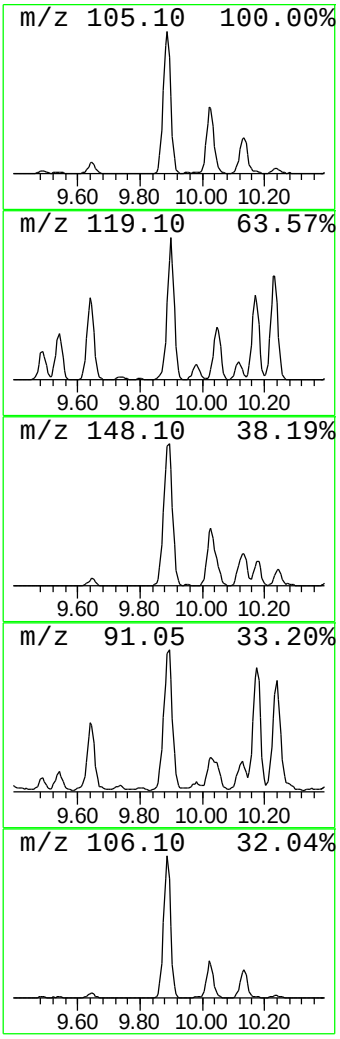
**********

Peak Number 3 Benzene, (1,1-dimethylpropyl)- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.89 | 24.92 ng/ul | 2921130 | 1,4-Dichlorobenzene-d4 | 8.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 60 |
| 2 | 4-Methylphenyl acetone | 148 | C10H12O | 002096-86-8 | 55 |
| 3 | 2-Methylindan-2-ol | 148 | C10H12O | 033223-84-6 | 53 |
| 4 | Benzene, 1-methyl-4-(2-methylpro... | 148 | C11H16 | 005161-04-6 | 53 |
| 5 | Benzene, 1-methyl-4-butyl | 148 | C11H16 | 001595-05-7 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
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Sample : J2431-08
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**Instrument :** BNA_M
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

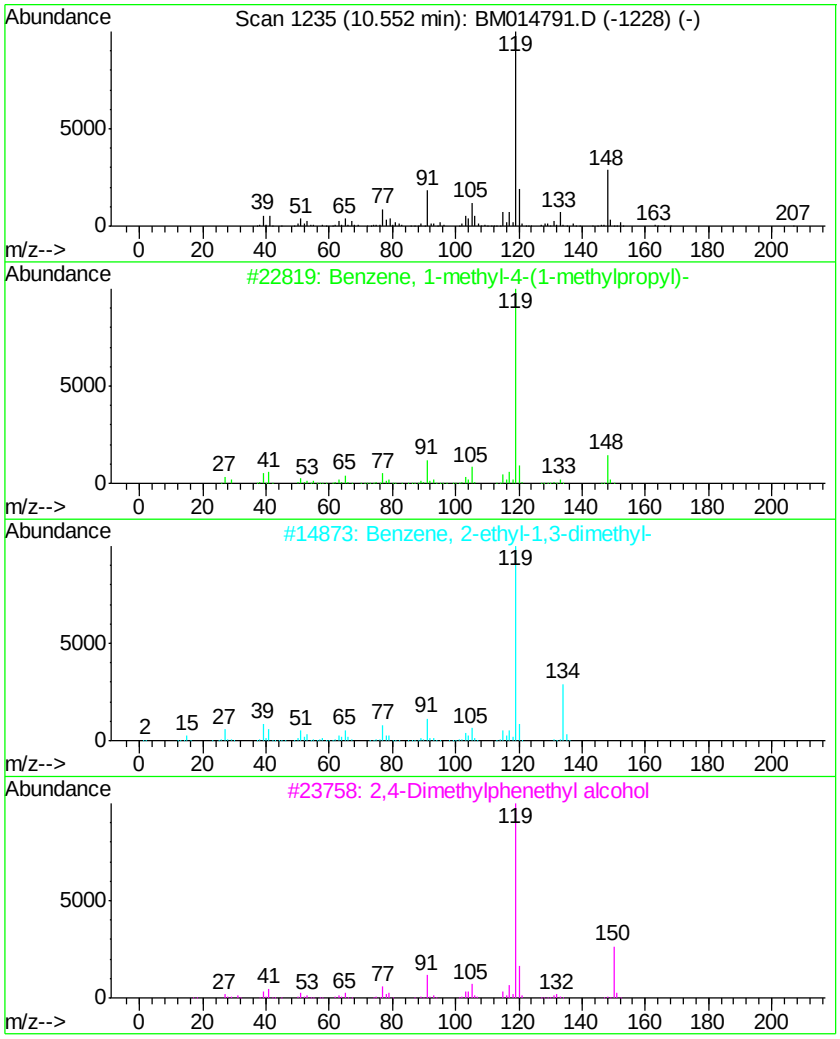
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

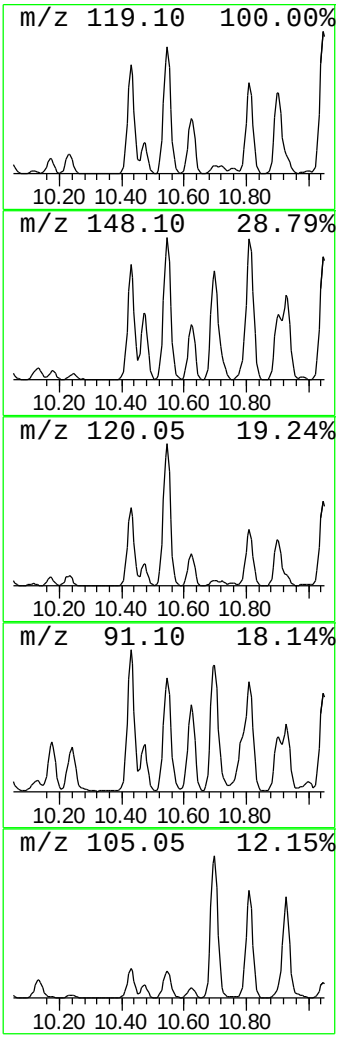
**********

Peak Number 4 Benzene, 1-methyl-4-(1-meth... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.55 | 15.90 ng/ul | 3693450 | Naphthalene-d8 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 87 |
| 2 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 76 |
| 3 | 2,4-Dimethylphenethyl alcohol | 150 | C10H14O | 006597-59-7 | 74 |
| 4 | 1H-1,5-Benzodiazepine, 2,3,4,5-t... | 148 | C9H12N2 | 006516-89-8 | 64 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

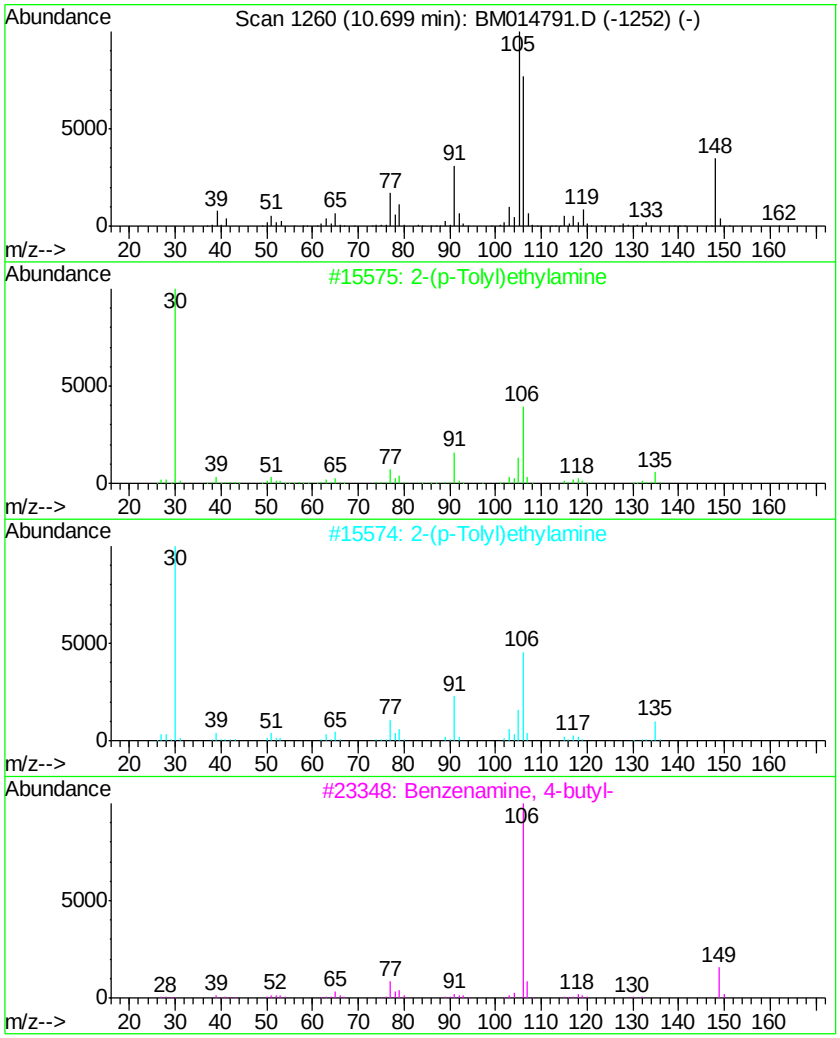
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

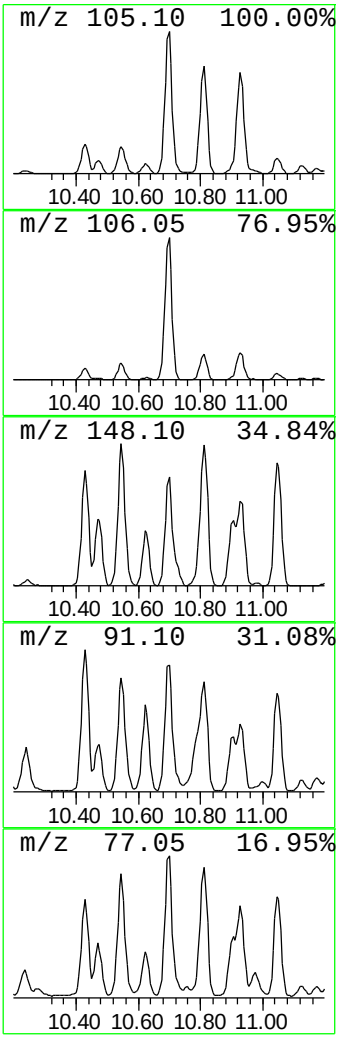
**********

Peak Number 5 2-(p-Tolyl)ethylamine Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.70 | 14.98 ng/ul | 3479590 | Naphthalene-d8 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(p-Tolyl)ethylamine | 135 | C9H13N | 003261-62-9 | 64 |
| 2 | 2-(p-Tolyl)ethylamine | 135 | C9H13N | 003261-62-9 | 64 |
| 3 | Benzenamine, 4-butyl- | 149 | C10H15N | 000104-13-2 | 49 |
| 4 | Pyridine, 2-ethyl-5-methyl- | 121 | C8H11N | 018113-81-0 | 46 |
| 5 | Benzenamine, 4-butyl- | 149 | C10H15N | 000104-13-2 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

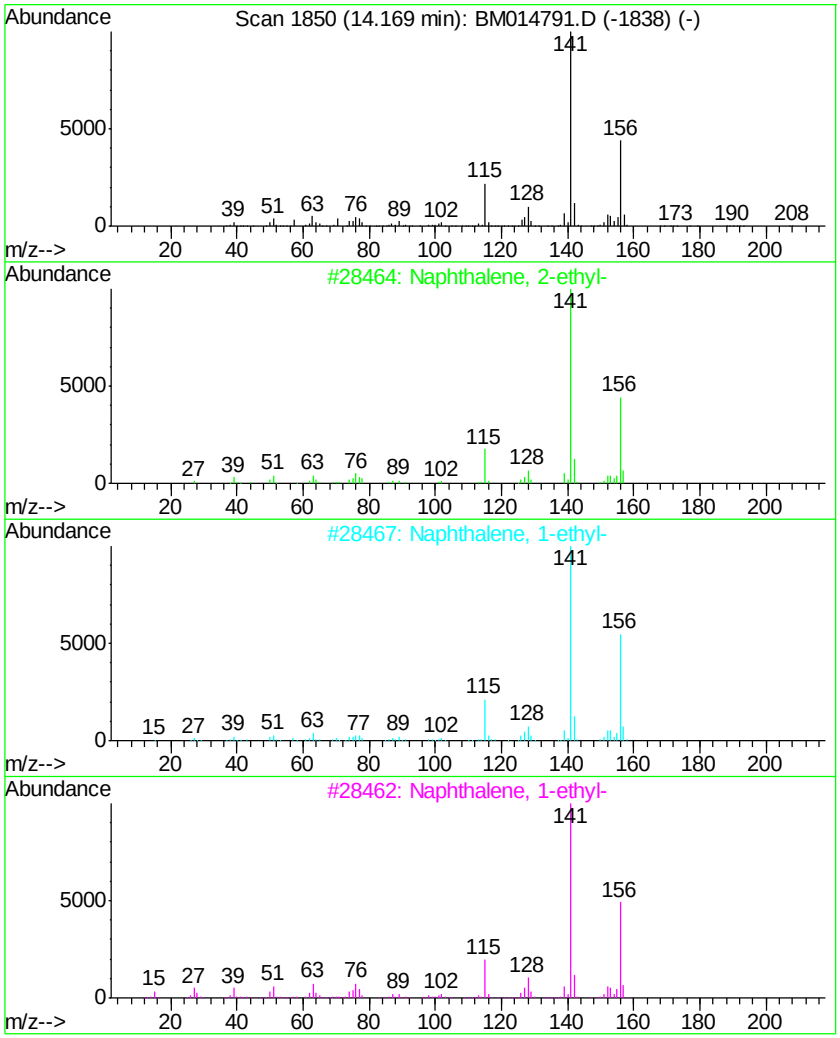
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

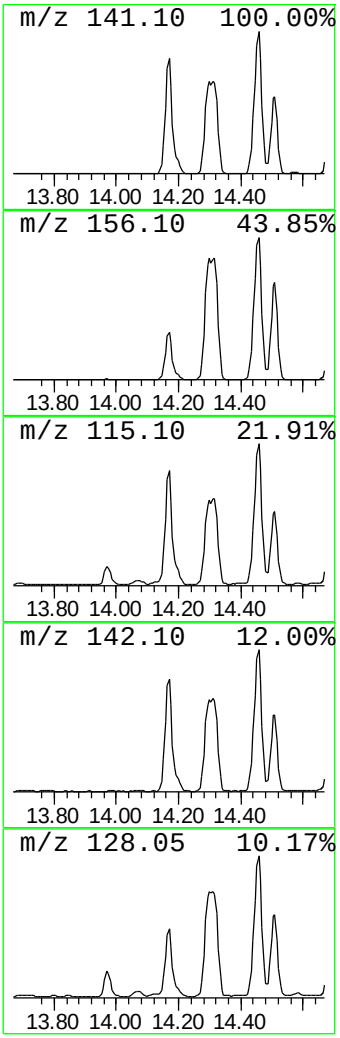
**********

Peak Number 8 Naphthalene, 2-ethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.17 | 24.61 ng/ul | 4641510 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 96 |
| 2 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 96 |
| 3 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 95 |
| 4 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 95 |
| 5 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 94 |



# Library Search Compound Report

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Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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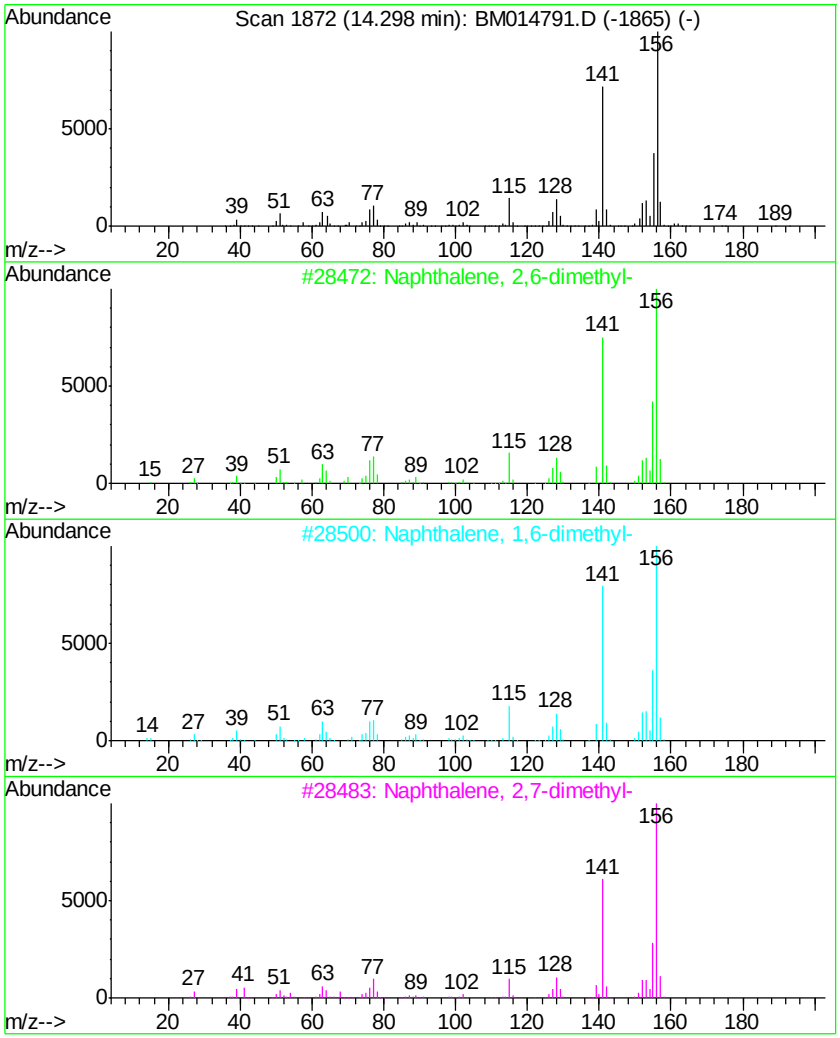
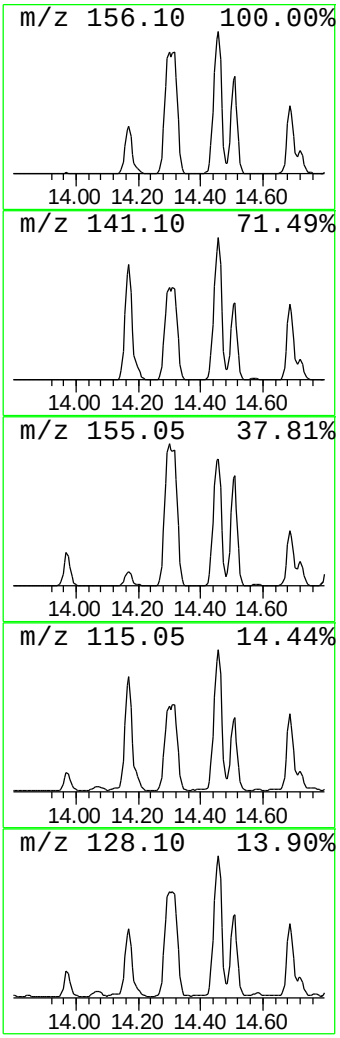
Peak Number 9 Naphthalene, 2,6-dimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.30 | 31.70 ng/ul | 5978340 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |



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Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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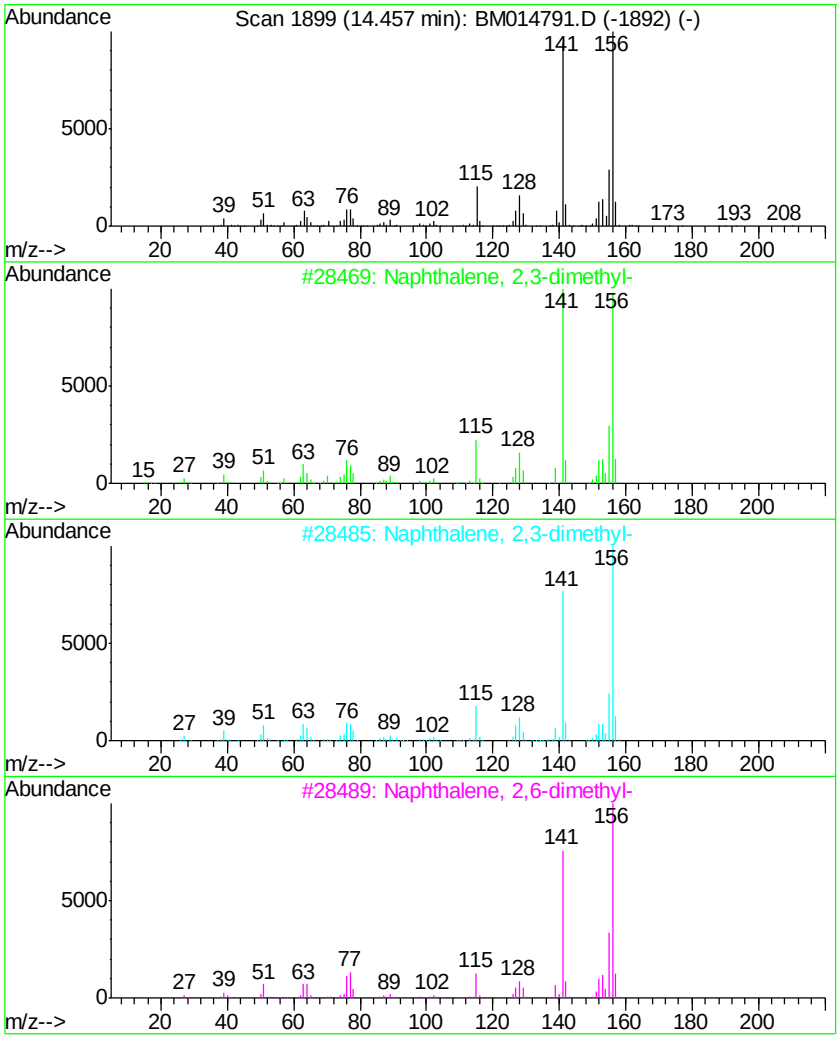
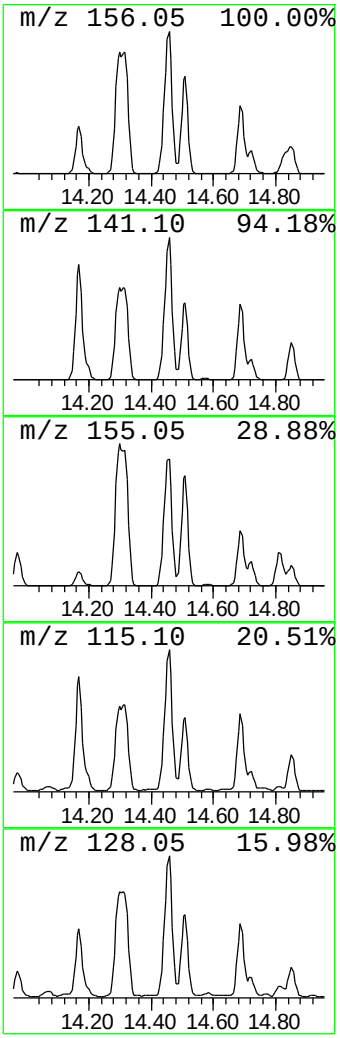
Peak Number 10 Naphthalene, 2,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.46 | 46.71 ng/ul | 8809540 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |



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Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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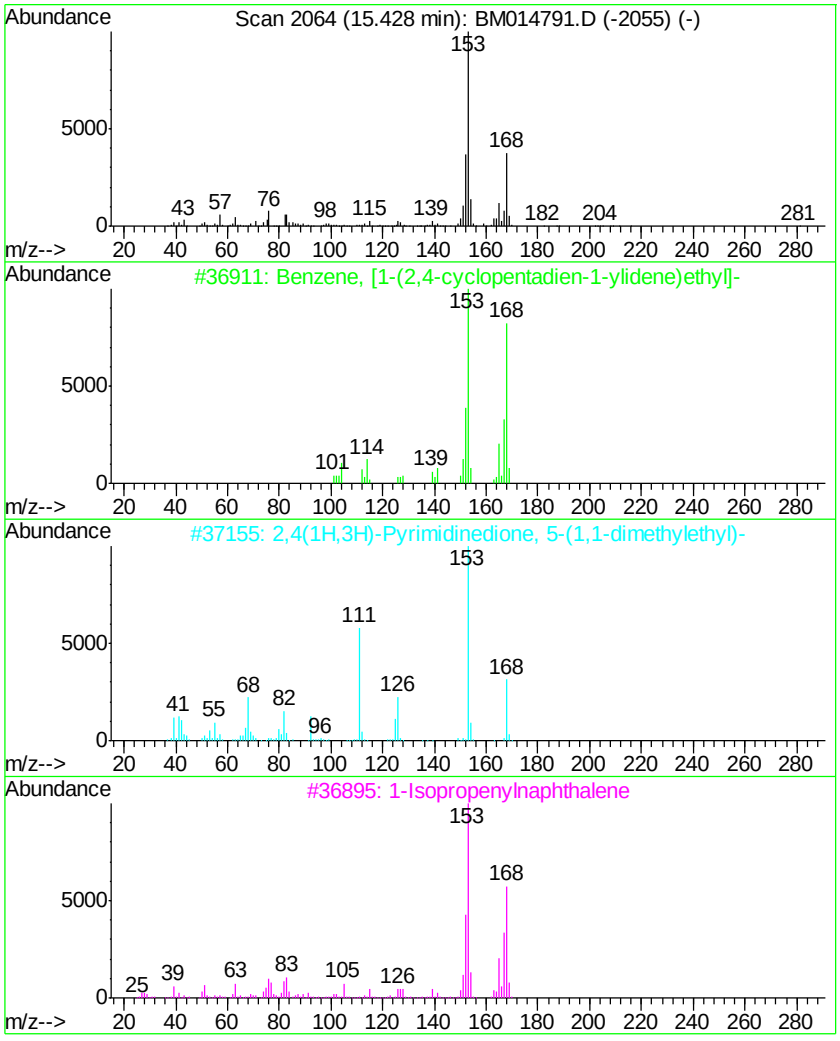
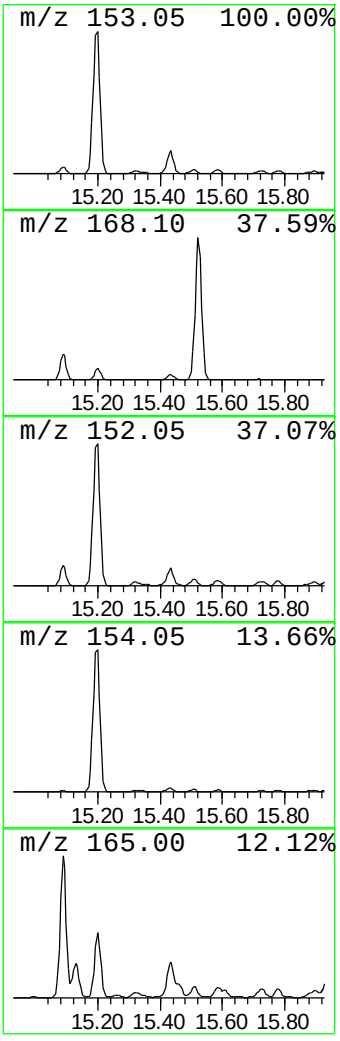
Peak Number 12 Benzene, [1-(2,4-cyclopenta... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.43 | 24.25 ng/ul | 4573540 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12 | 002320-32-3 | 80 |
| 2 | 2,4(1H,3H)-Pyrimidinedione, 5-(1... | 168 | C8H12N2O2 | 017432-97-2 | 53 |
| 3 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 52 |
| 4 | Ethanone, 1-(2,4,6-trihydroxyphe... | 168 | C8H8O4 | 000480-66-0 | 52 |
| 5 | Ethanone, 1-(2,4,6-trihydroxyphe... | 168 | C8H8O4 | 000480-66-0 | 52 |



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Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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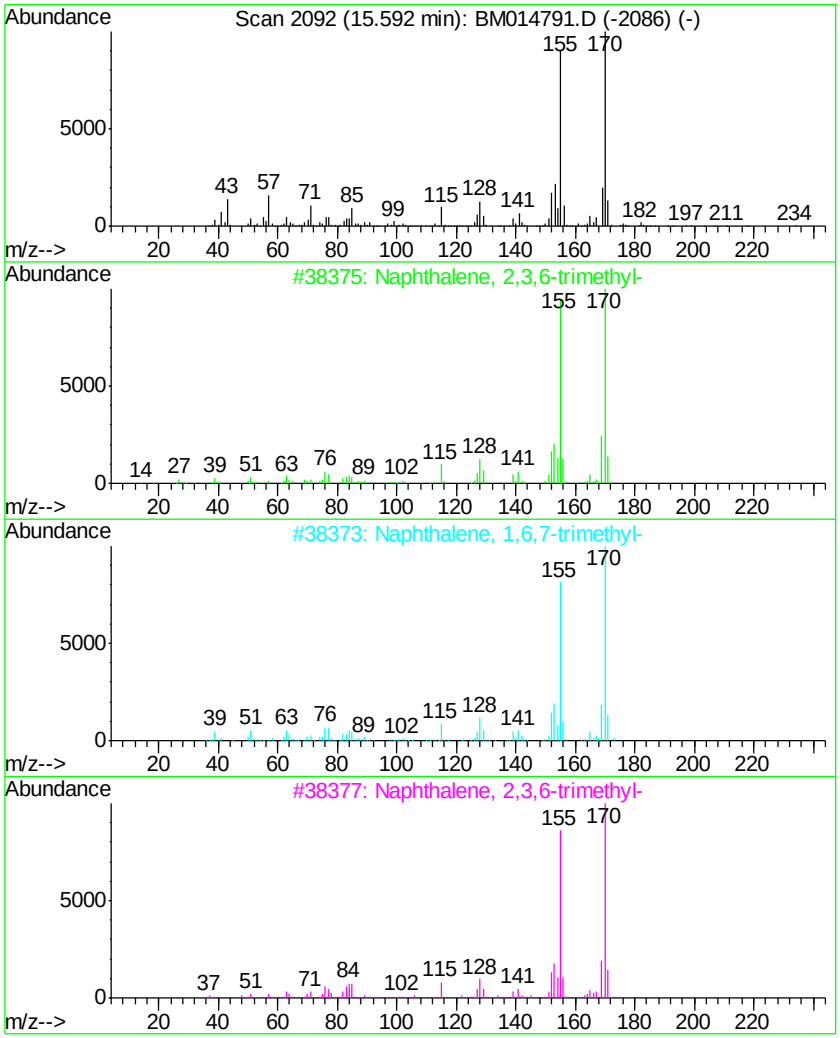
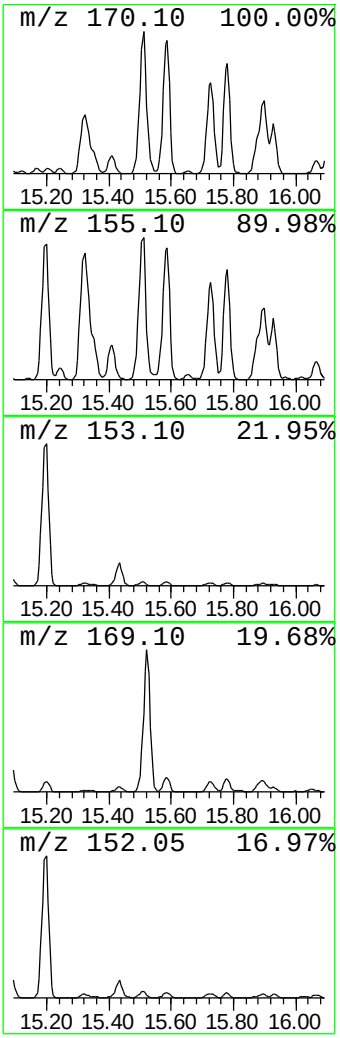
Peak Number 13 Naphthalene, 2,3,6-trimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.59 | 16.92 ng/ul | 3191690 | Acenaphthene-d10 | 15.13 |

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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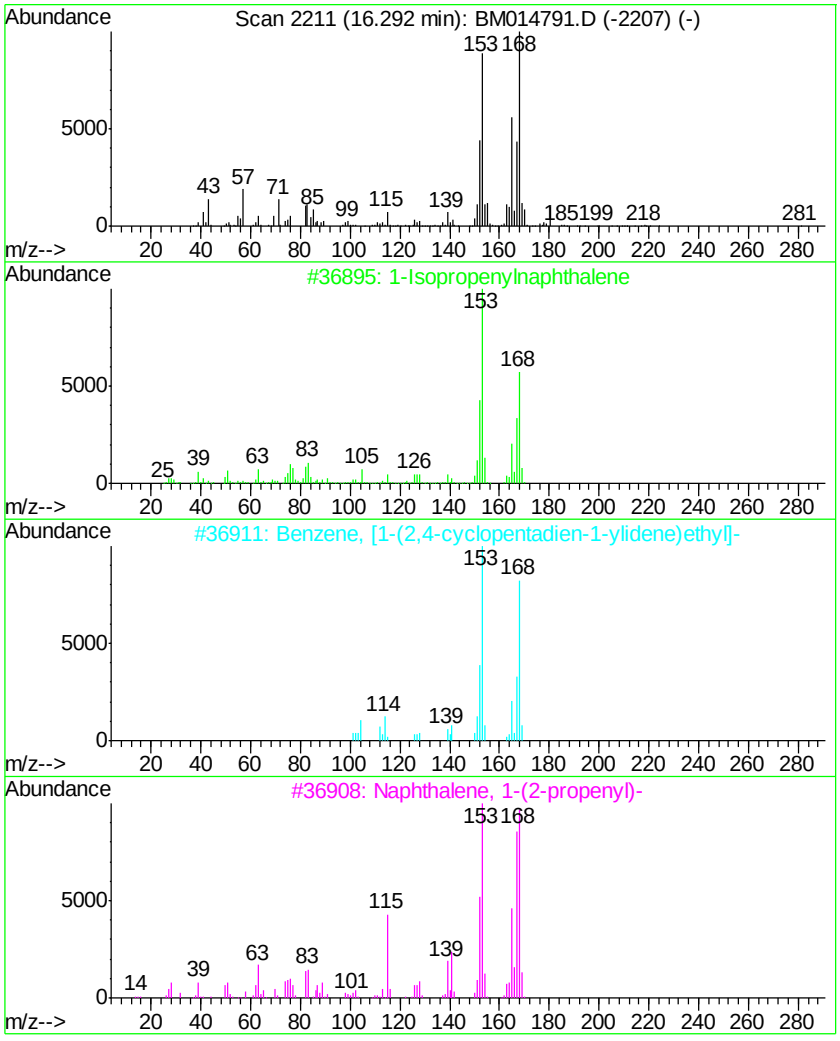
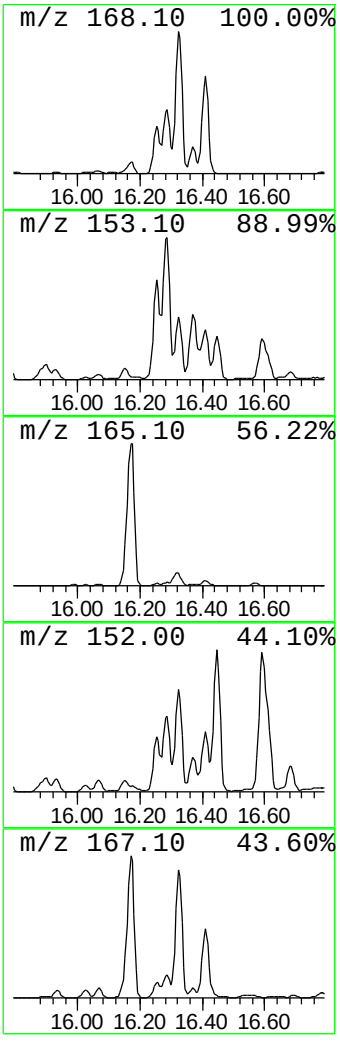
Peak Number 16 1-Isopropenylnaphthalene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.29 | 21.52 ng/ul | 4058250 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 83 |
| 2 | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12 | 002320-32-3 | 83 |
| 3 | Naphthalene, 1-(2-propenyl)- | 168 | C13H12 | 002489-86-3 | 74 |
| 4 | Naphthalene, 2-(1-methylethenyl)- | 168 | C13H12 | 003710-23-4 | 59 |
| 5 | Ethanone, 1-(2,4,6-trihydroxyphe... | 168 | C8H8O4 | 000480-66-0 | 52 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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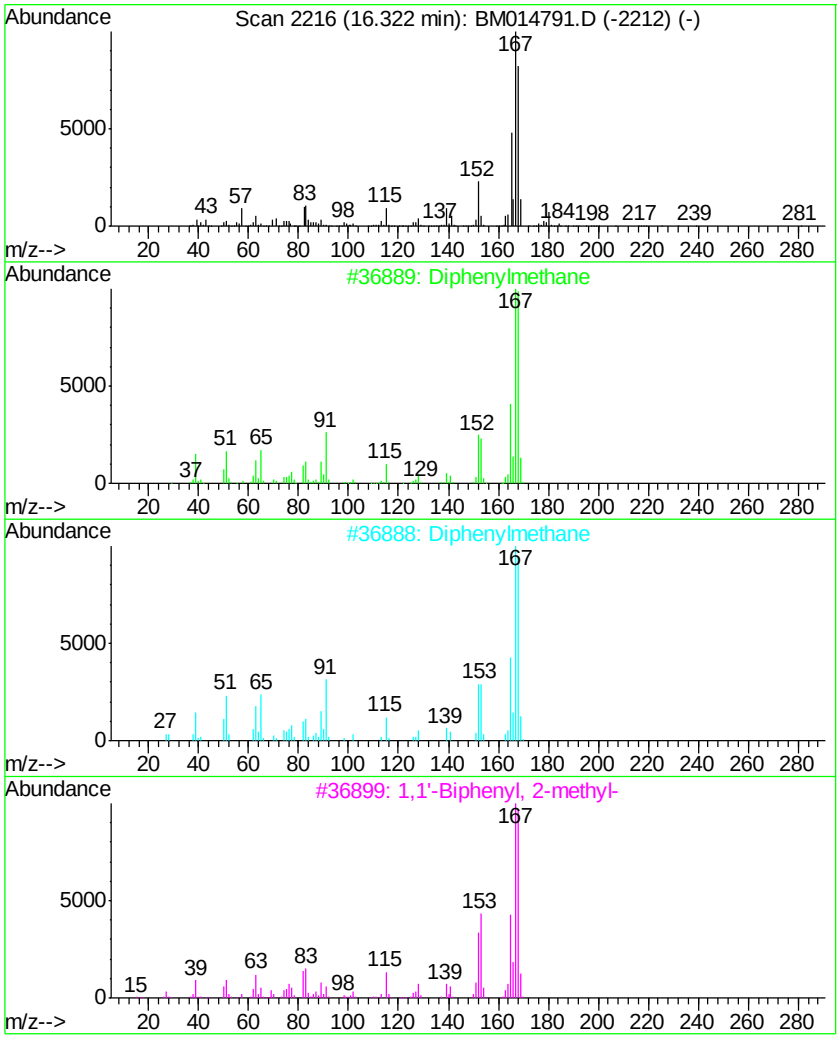
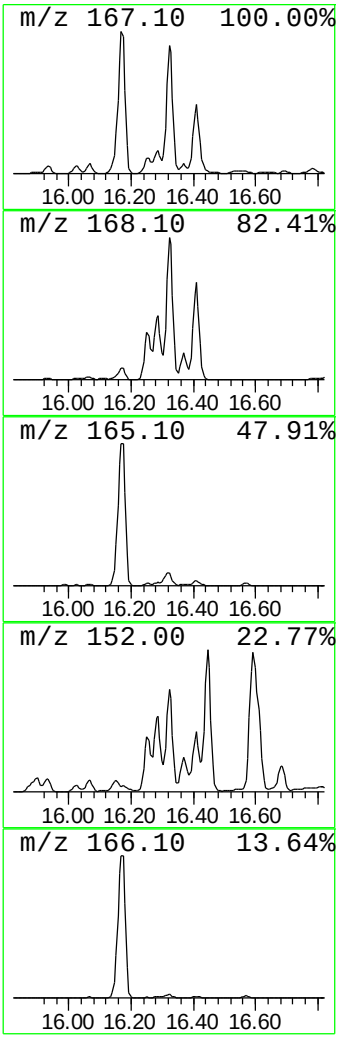
Peak Number 17 Diphenylmethane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.32 | 57.42 ng/ul | 10829200 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 90 |
| 2 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 81 |
| 3 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 74 |
| 4 | Benzeneethanol, .alpha.,.alpha.,... | 350 | C26H22O | 000981-24-8 | 72 |
| 5 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 68 |



# Library Search Compound Report

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Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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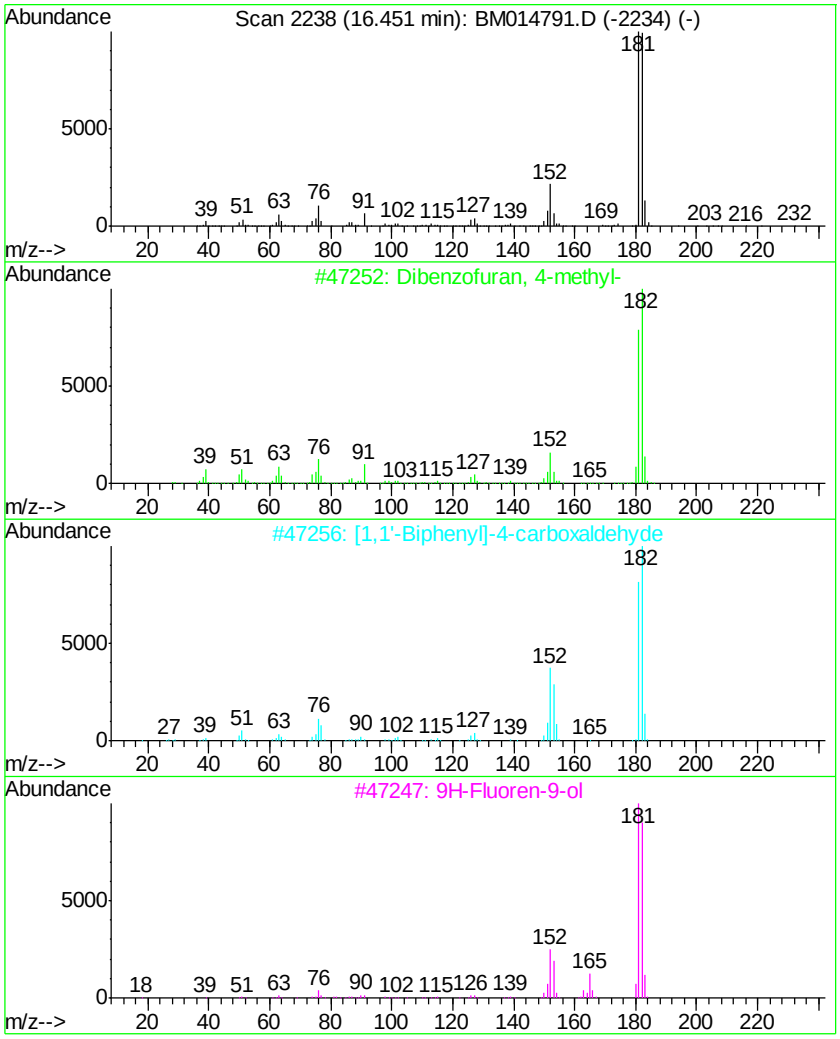
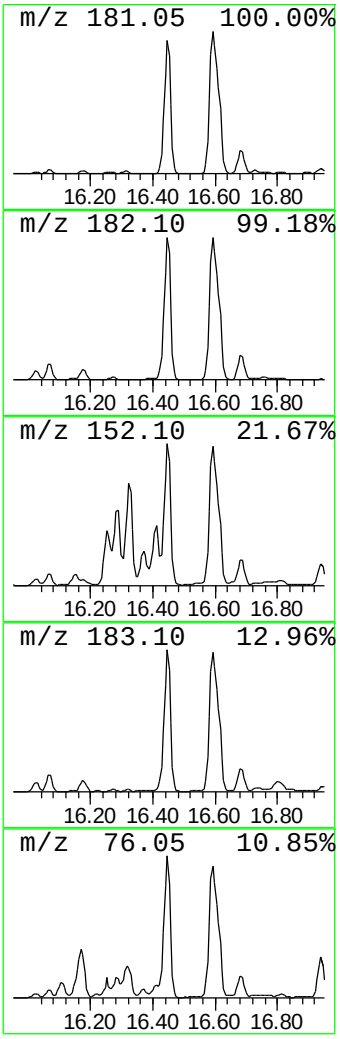
Peak Number 19 Dibenzofuran, 4-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.45 | 55.57 ng/ul | 10479500 | Acenaphthene-d10 | 15.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 94 |
| 2 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 91 |
| 3 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 83 |
| 4 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 78 |
| 5 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 78 |



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Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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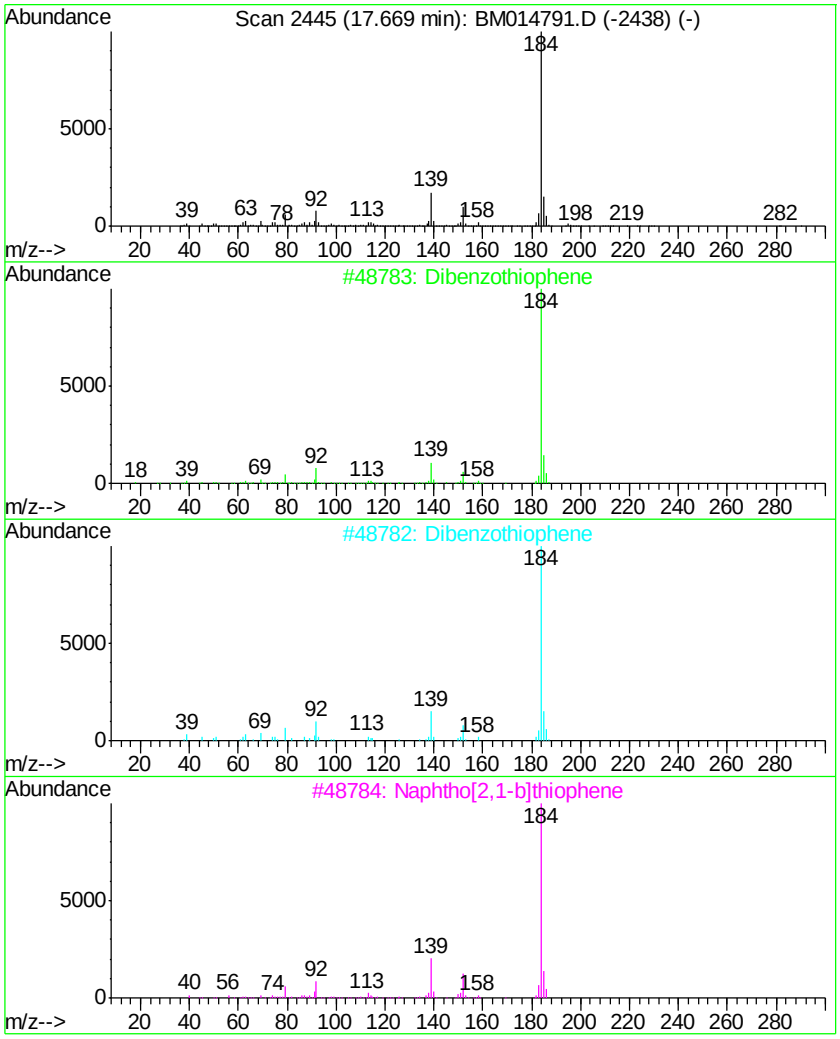
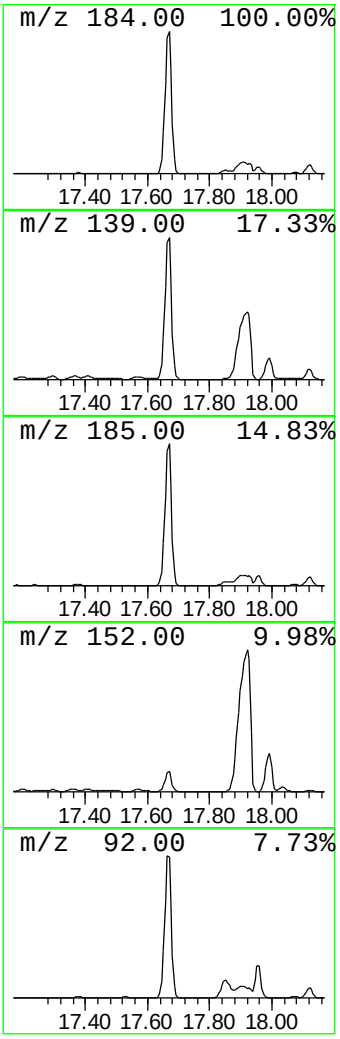
Peak Number 20 Dibenzothiophene Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.67 | 2.23 ng/ul | 19367300 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 96 |
| 3 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 96 |
| 4 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 94 |
| 5 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 94 |



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Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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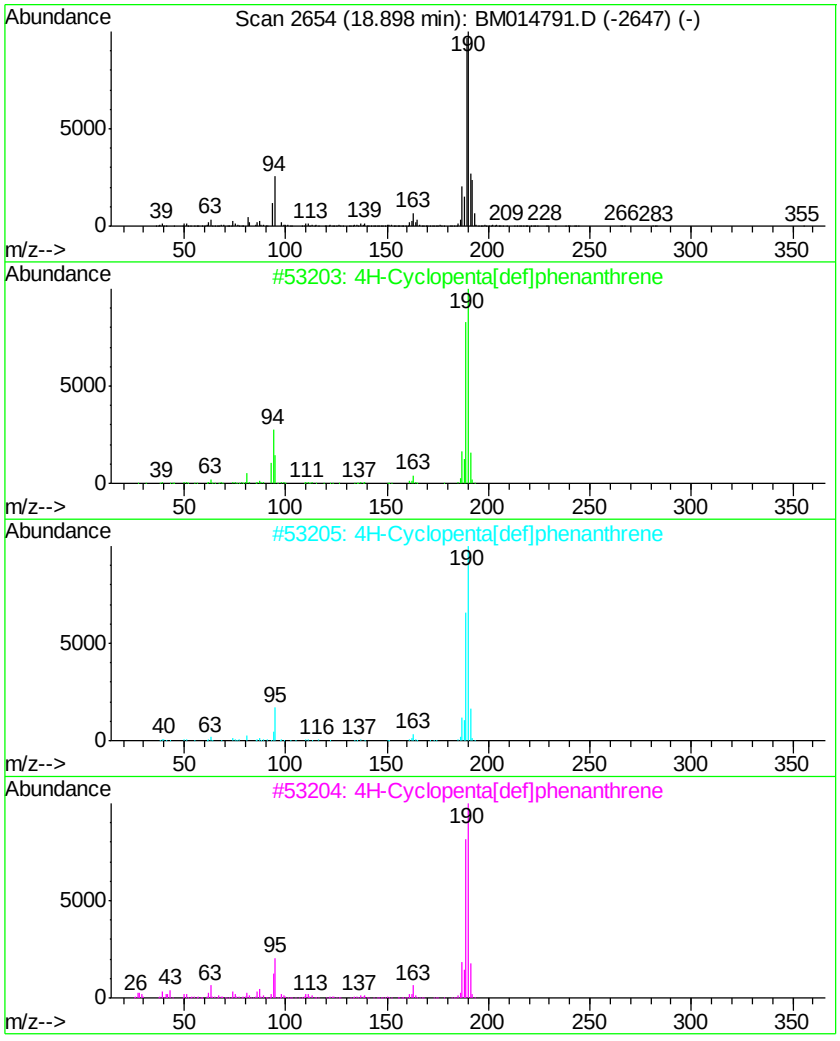
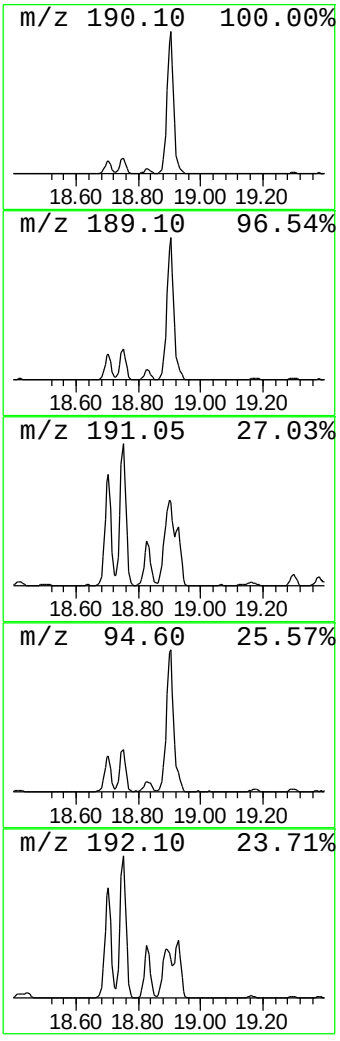
Peak Number 21 4H-Cyclopenta[def]phenanthrene Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.90 | 4.63 ng/ul | 40138600 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 94 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 4 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 72 |
| 5 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50 |



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Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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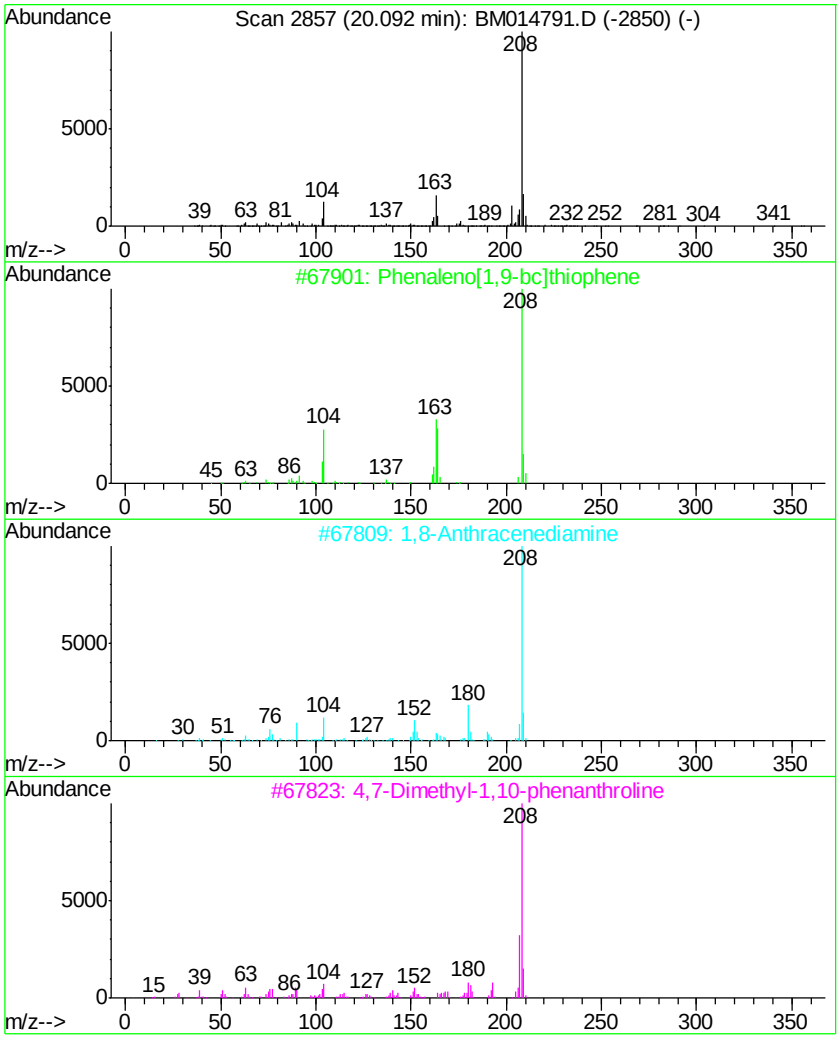
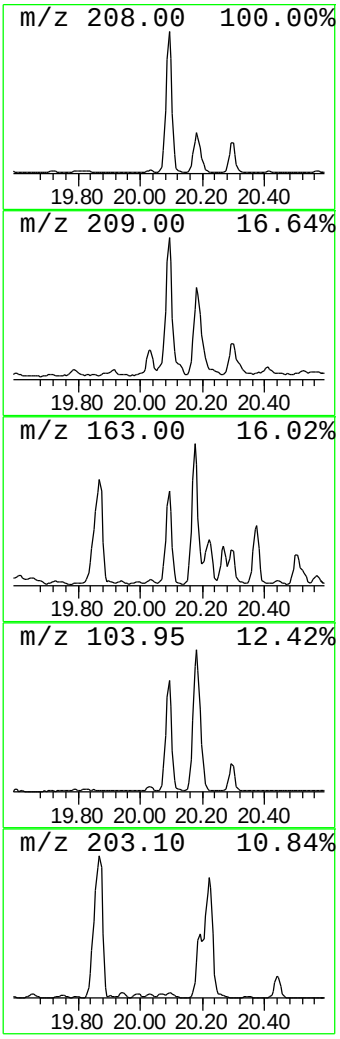
Peak Number 22 Phenaleno[1,9-bc]thiophene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.09 | 2.39 ng/ul | 5159230 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenaleno[1,9-bc]thiophene | 208 | C14H8S | 079965-99-4 | 83 |
| 2 | 1,8-Anthracenediamine | 208 | C14H12N2 | 139312-39-3 | 64 |
| 3 | 4,7-Dimethyl-1,10-phenanthroline | 208 | C14H12N2 | 003248-05-3 | 59 |
| 4 | 1,10-Phenanthroline, 2,9-dimethyl- | 208 | C14H12N2 | 000484-11-7 | 53 |
| 5 | Benzene, 1,1'-(1-butenylidene)bis- | 208 | C16H16 | 001726-14-3 | 52 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

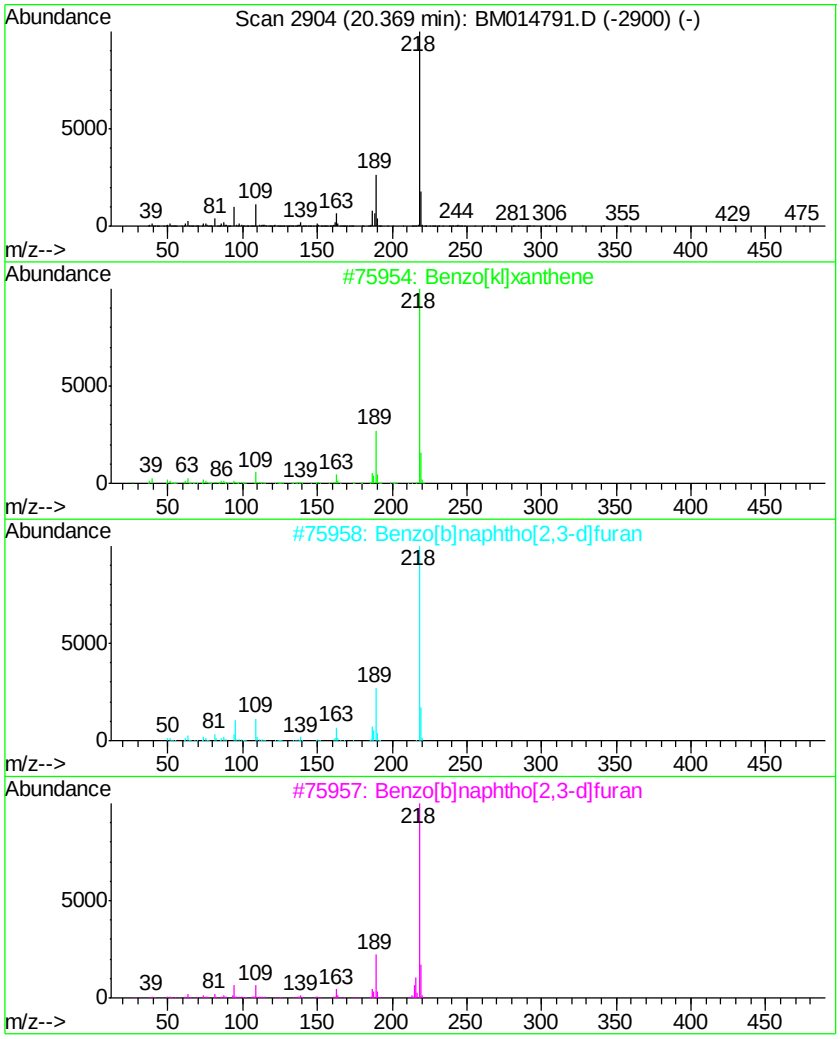
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

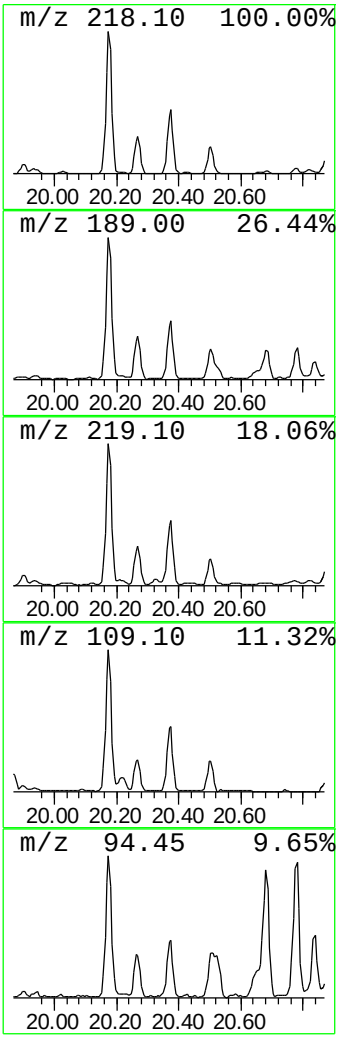
**********

Peak Number 23 Benzo[kl]xanthene Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.37 | 2.28 ng/ul | 4909200 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[kl]xanthene | 218 | C16H10O | 000200-23-7 | 97 |
| 2 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 96 |
| 3 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 95 |
| 4 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 94 |
| 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

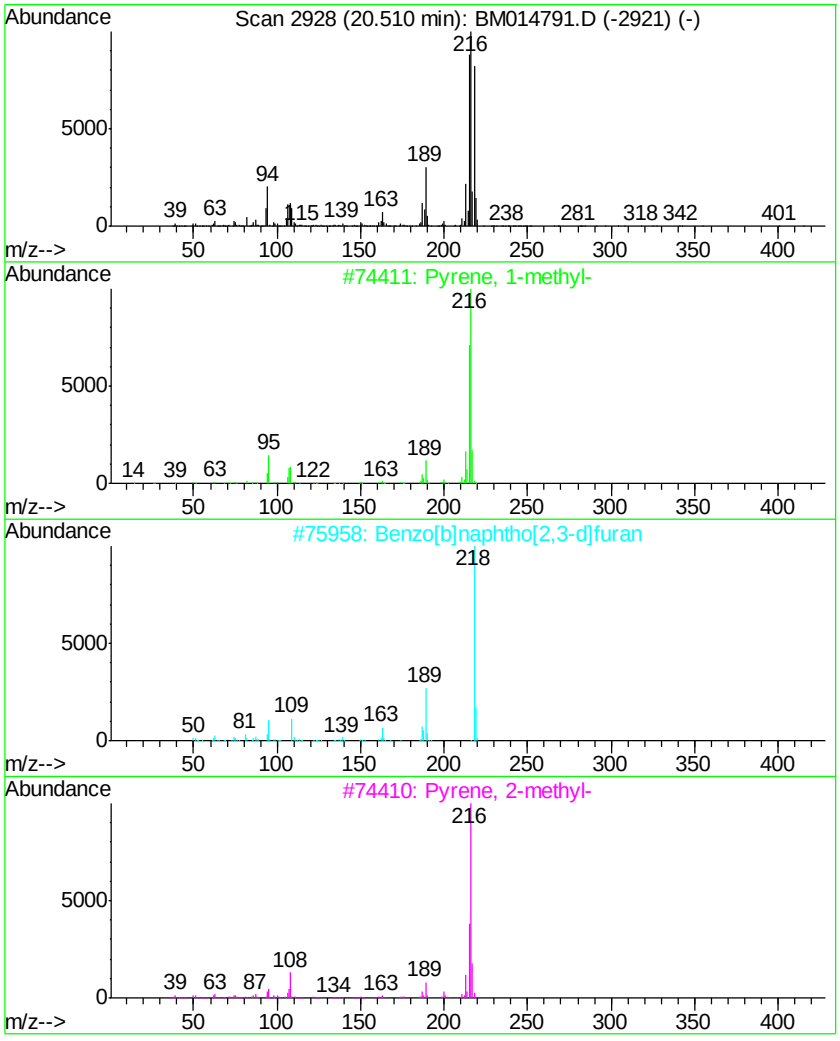
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

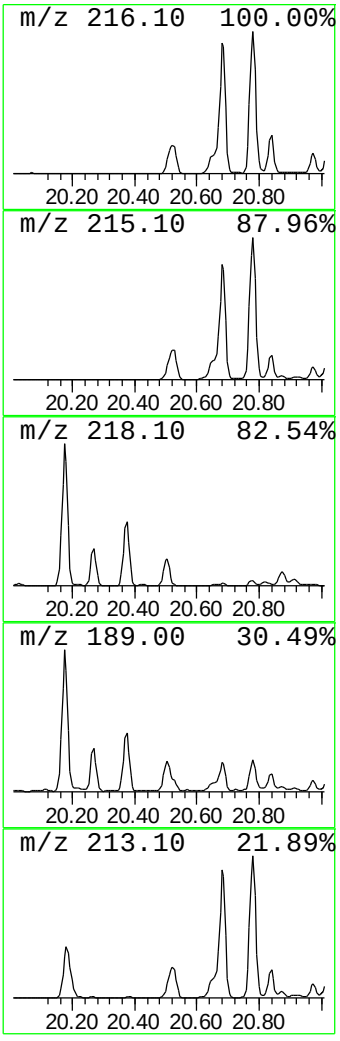
**********

Peak Number 24 Pyrene, 1-methyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.51 | 3.42 ng/ul | 7378370 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 89 |
| 2 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 78 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 70 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 64 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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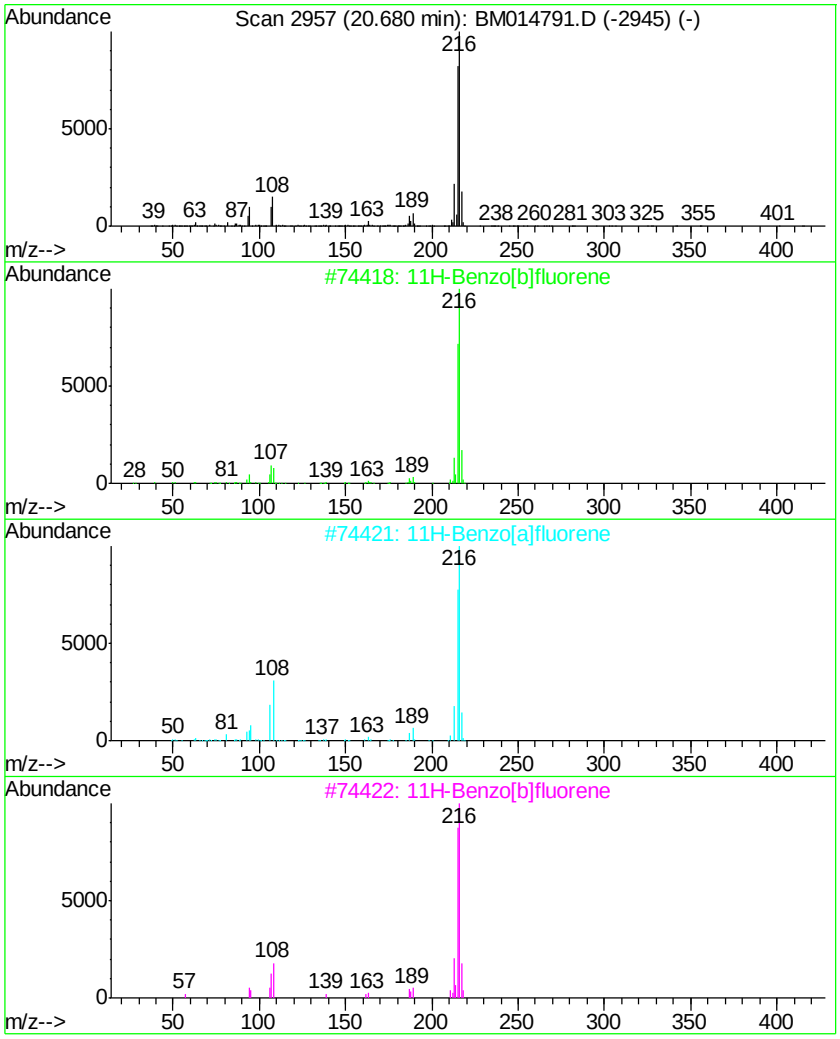
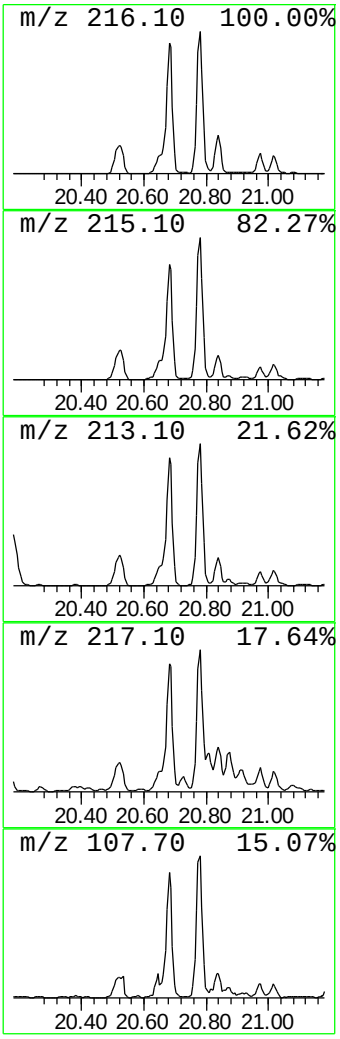
Peak Number 25 11H-Benzo[b]fluorene Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.68 | 8.00 ng/ul | 17255200 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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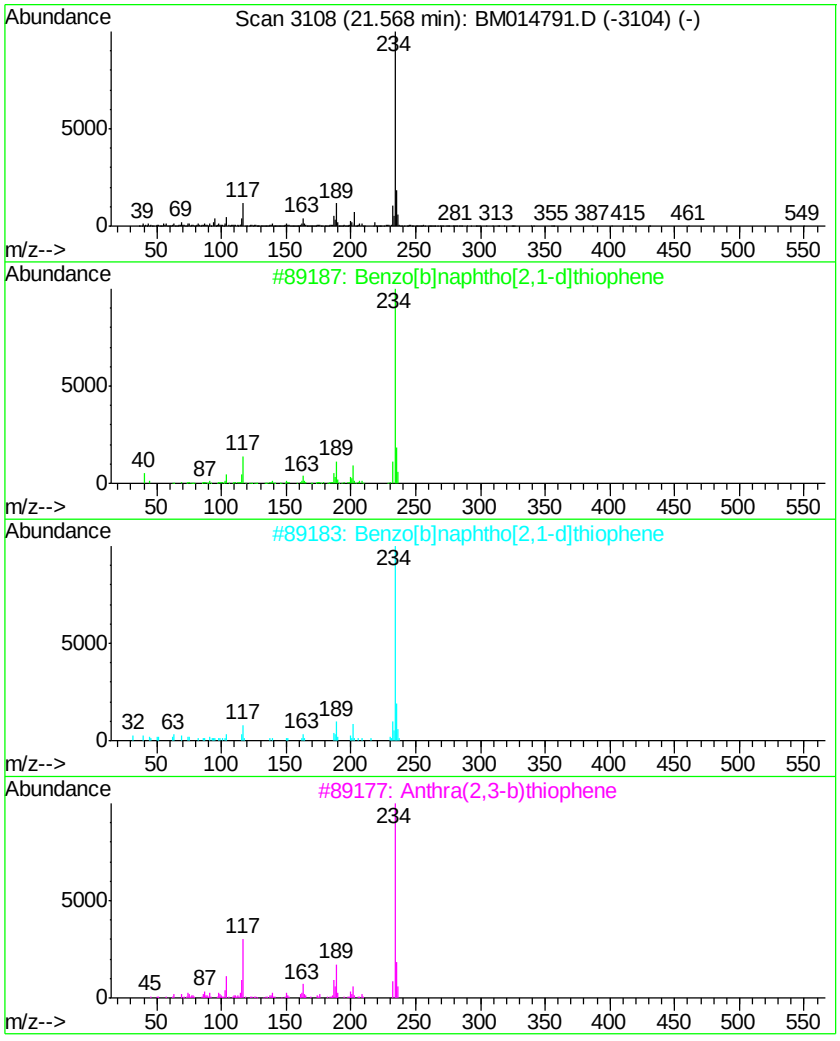
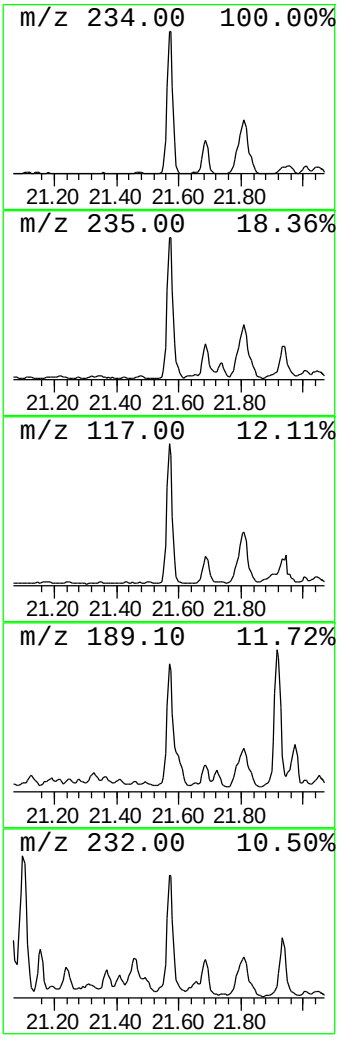
Peak Number 27 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.57 | 2.31 ng/ul | 4983590 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 98 |
| 2 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 98 |
| 3 | Anthra(2,3-b)thiophene | 234 | C16H10S | 022108-55-0 | 97 |
| 4 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 97 |
| 5 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 97 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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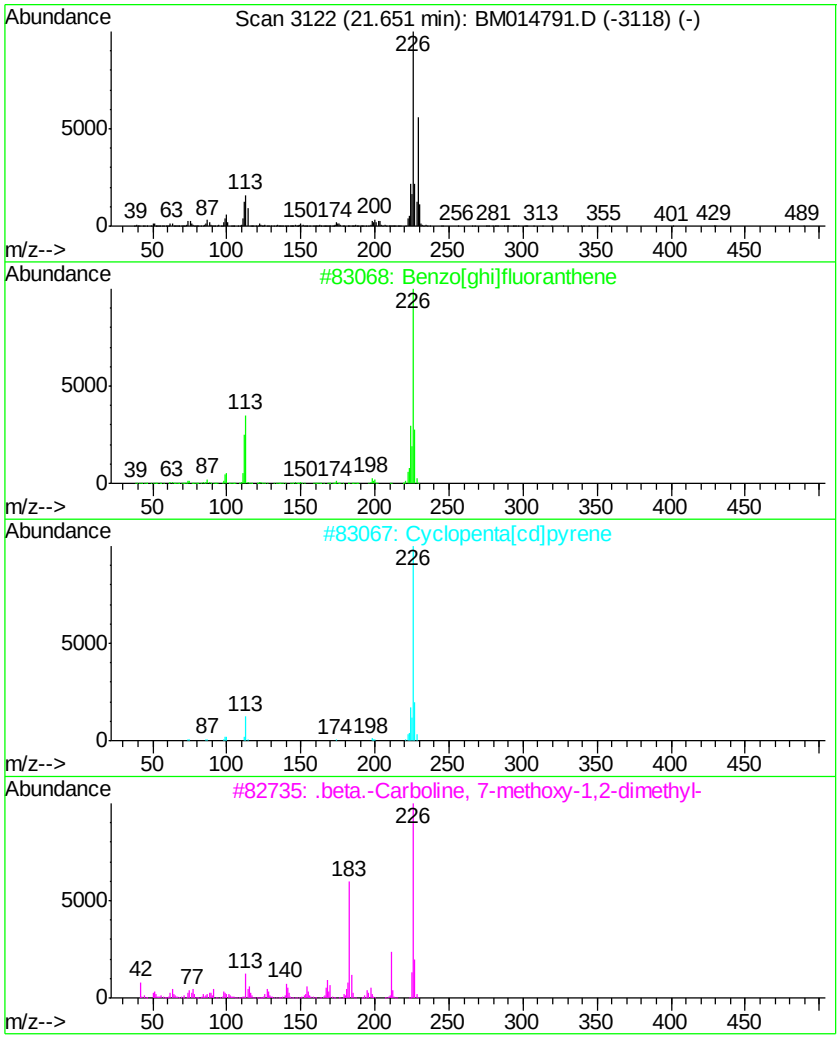
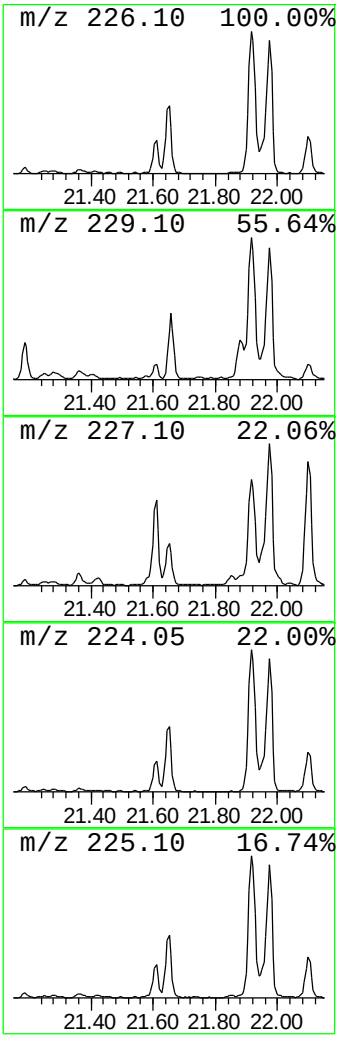
Peak Number 28 Benzo[ghi]fluoranthene Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.65 | 2.24 ng/ul | 4824110 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 53 |
| 2 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 53 |
| 3 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 49 |
| 4 | 9H-Thioxanthen-9-one, 2-methyl- | 226 | C14H10OS | 015774-82-0 | 46 |
| 5 | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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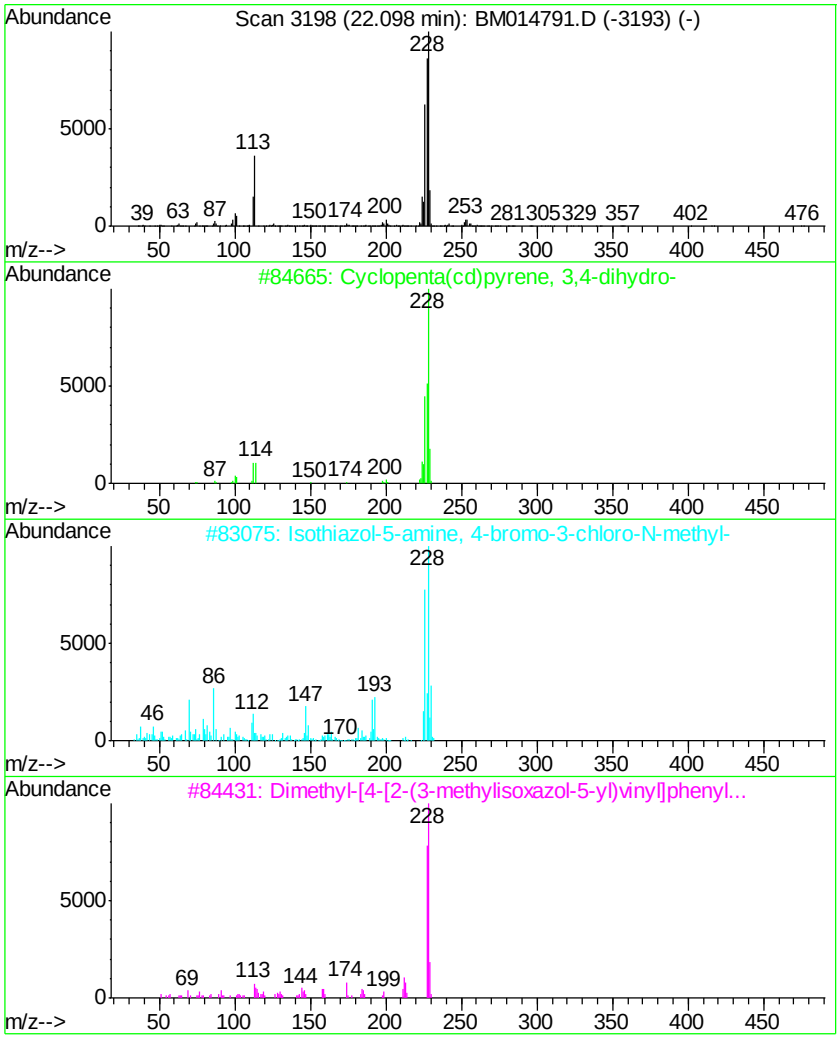
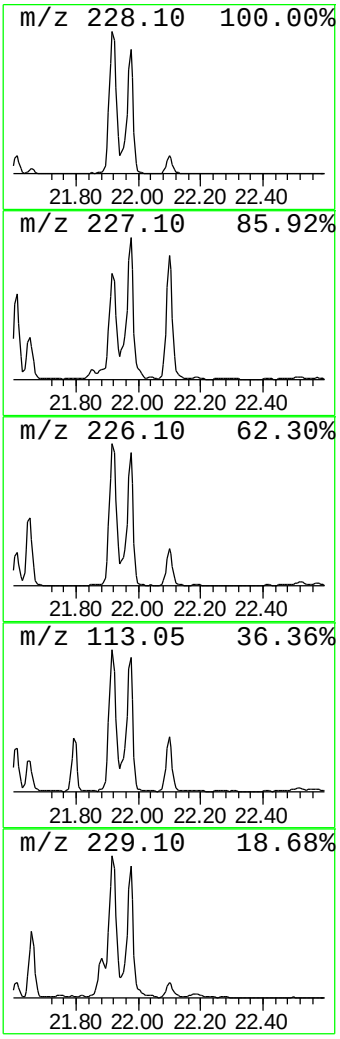
Peak Number 29 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.10 | 2.45 ng/ul | 5287990 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 90 |
| 2 | Isothiazol-5-amine, 4-bromo-3-ch... | 226 | C4H4BrClN2S | 1000272-59-9 | 47 |
| 3 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 47 |
| 4 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 45 |
| 5 | Triphenylene | 228 | C18H12 | 000217-59-4 | 41 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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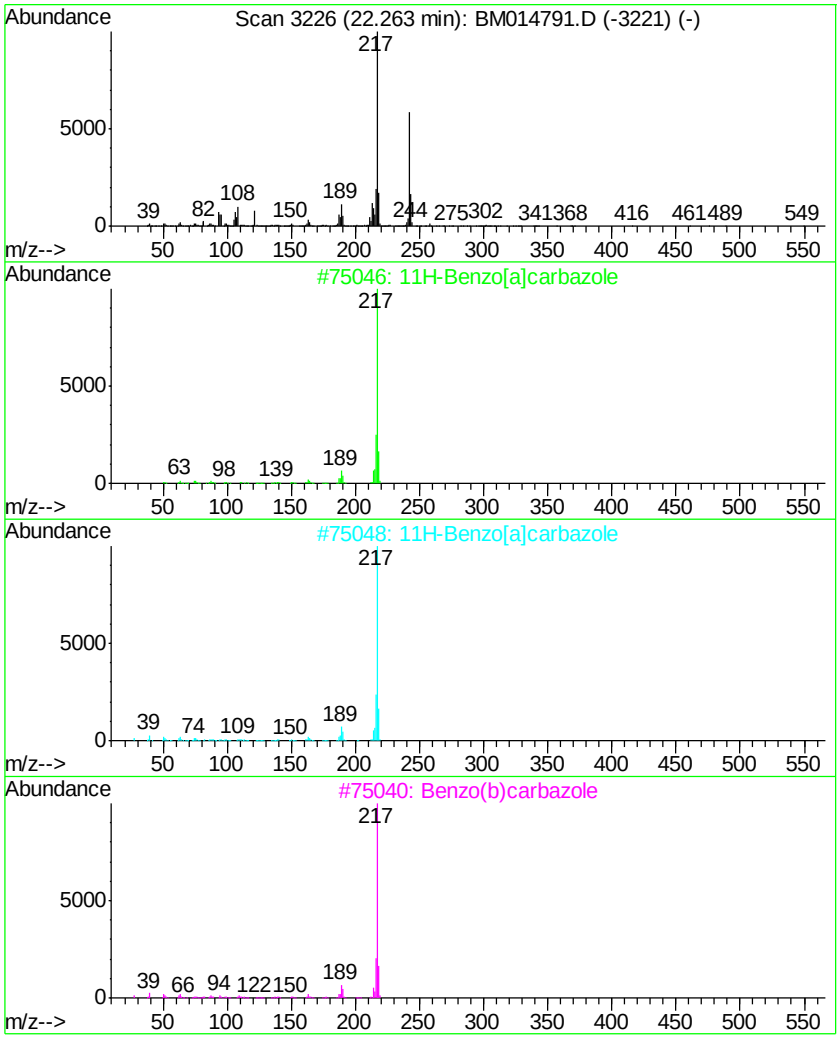
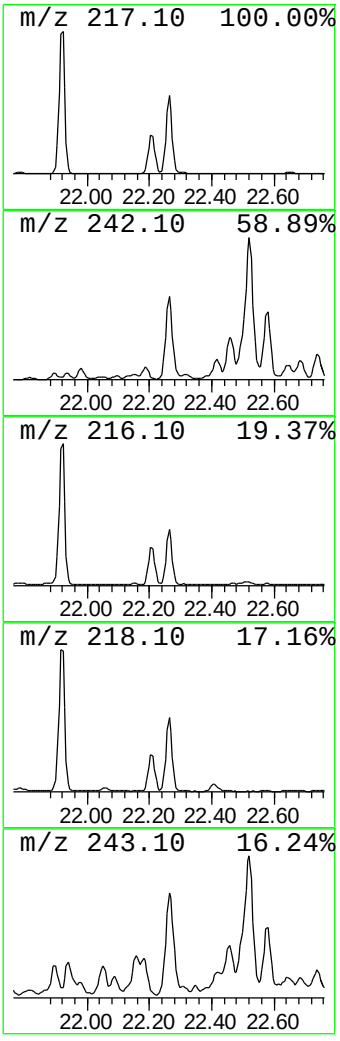
Peak Number 30 11H-Benzo[a]carbazole Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.26 | 2.02 ng/ul | 4362270 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 92 |
| 2 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 78 |
| 3 | Benzo(b)carbazole | 217 | C16H11N | 000243-28-7 | 64 |
| 4 | 7H-Benzo[c]carbazole | 217 | C16H11N | 000205-25-4 | 64 |
| 5 | Benzo(c)carbazole | 217 | C16H11N | 034777-33-8 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

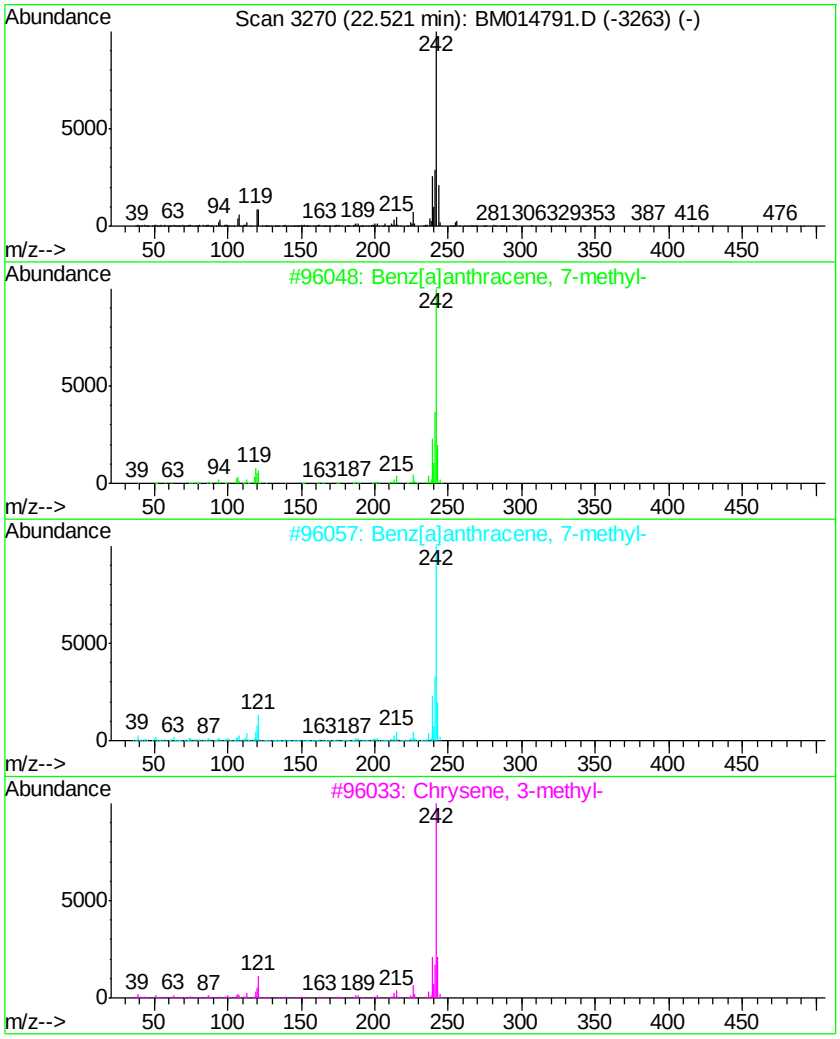
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

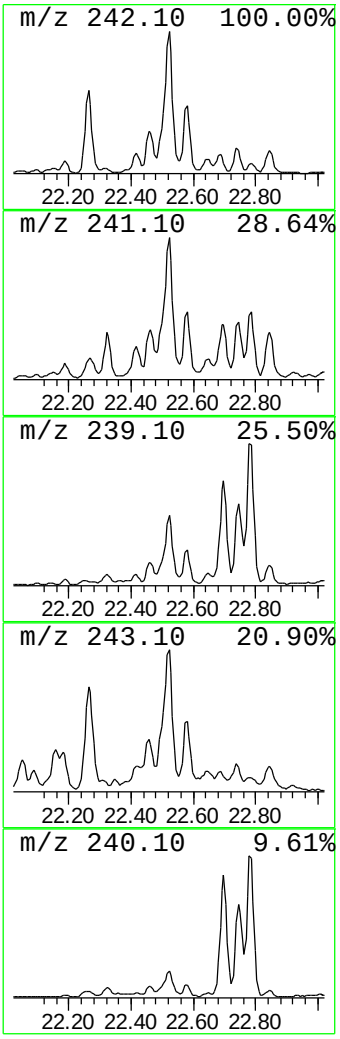
**********

Peak Number 31 Benz[a]anthracene, 7-methyl- Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.52 | 2.16 ng/ul | 4666910 | Chrysene-d12 | 21.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 95 |
| 2 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 95 |
| 3 | Chrysene, 3-methyl- | 242 | C19H14 | 003351-31-3 | 94 |
| 4 | Benz[a]anthracene, 8-methyl- | 242 | C19H14 | 002381-31-9 | 94 |
| 5 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM042318\
Data File : BM014791.D
Acq On : 24 Apr 2018 00:16
Operator : SJ/JU
Sample : J2431-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DASN9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.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 |
| (DEL) Alkane: Str... | 9.04 | 18.2 | ng/ul | 2138700 | 1 | 8.53 | 2344860 | 20.0 |
| (DEL) Alkane: Str... | 9.10 | 22.0 | ng/ul | 2577310 | 1 | 8.53 | 2344860 | 20.0 |
| Benzene, (1,1-dim... | 9.89 | 24.9 | ng/ul | 2921130 | 1 | 8.53 | 2344860 | 20.0 |
| Benzene, 1-methyl... | 10.55 | 15.9 | ng/ul | 3693450 | 2 | 11.37 | 4645930 | 20.0 |
| 2-(p-Tolyl)ethyla... | 10.70 | 15.0 | ng/ul | 3479590 | 2 | 11.37 | 4645930 | 20.0 |
| Naphthalene, 2-et... | 14.17 | 24.6 | ng/ul | 4641510 | 3 | 15.13 | 3771710 | 20.0 |
| Naphthalene, 2,6-... | 14.30 | 31.7 | ng/ul | 5978340 | 3 | 15.13 | 3771710 | 20.0 |
| Naphthalene, 2,3-... | 14.46 | 46.7 | ng/ul | 8809540 | 3 | 15.13 | 3771710 | 20.0 |
| Benzene, [1-(2,4-... | 15.43 | 24.3 | ng/ul | 4573540 | 3 | 15.13 | 3771710 | 20.0 |
| Naphthalene, 2,3,... | 15.59 | 16.9 | ng/ul | 3191690 | 3 | 15.13 | 3771710 | 20.0 |
| 1-Isopropenylnaph... | 16.29 | 21.5 | ng/ul | 4058250 | 3 | 15.13 | 3771710 | 20.0 |
| Diphenylmethane | 16.32 | 57.4 | ng/ul | 10829200 | 3 | 15.13 | 3771710 | 20.0 |
| Dibenzofuran, 4-m... | 16.45 | 55.6 | ng/ul | 10479500 | 3 | 15.13 | 3771710 | 20.0 |
| Dibenzothiophene | 17.67 | 2.2 | ng/ul | 19367300 | 4 | 17.85 | 173548000 | 20.0 |
| 4H-Cyclopenta[def... | 18.90 | 4.6 | ng/ul | 40138600 | 4 | 17.85 | 173548000 | 20.0 |
| Phenaleno[1,9-bc]... | 20.09 | 2.4 | ng/ul | 5159230 | 5 | 21.93 | 43137200 | 20.0 |
| Benzo[kl]xanthene | 20.37 | 2.3 | ng/ul | 4909200 | 5 | 21.93 | 43137200 | 20.0 |
| Pyrene, 1-methyl- | 20.51 | 3.4 | ng/ul | 7378370 | 5 | 21.93 | 43137200 | 20.0 |
| 11H-Benzo[b]fluorene | 20.68 | 8.0 | ng/ul | 17255200 | 5 | 21.93 | 43137200 | 20.0 |
| Benzo[b]naphtho[2... | 21.57 | 2.3 | ng/ul | 4983590 | 5 | 21.93 | 43137200 | 20.0 |
| Benzo[ghi]fluoran... | 21.65 | 2.2 | ng/ul | 4824110 | 5 | 21.93 | 43137200 | 20.0 |
| Cyclopenta(cd)pyr... | 22.10 | 2.5 | ng/ul | 5287990 | 5 | 21.93 | 43137200 | 20.0 |
| 11H-Benzo[a]carba... | 22.26 | 2.0 | ng/ul | 4362270 | 5 | 21.93 | 43137200 | 20.0 |
| Benz[a]anthracene... | 22.52 | 2.2 | ng/ul | 4666910 | 5 | 21.93 | 43137200 | 20.0 |