LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

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_N\METHODS\SOM-EPA-BN041919MA.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.775 | 636 | 644 | 653 | rBV | 373505 | 647786 | 4.79% | 0.323% |
| 2 | 7.134 | 696 | 705 | 715 | rVB | 395307 | 621696 | 4.60% | 0.310% |
| 3 | 7.593 | 775 | 783 | 793 | rBV | 2182866 | 3504175 | 25.93% | 1.749% |
| 4 | 8.293 | 896 | 902 | 911 | rVB | 452598 | 736321 | 5.45% | 0.367% |
| 5 | 8.734 | 972 | 977 | 984 | rVV | 367413 | 594745 | 4.40% | 0.297% |
| 6 | 9.981 | 1185 | 1189 | 1197 | rVB | 477579 | 808728 | 5.98% | 0.404% |
| 7 | 10.357 | 1243 | 1253 | 1265 | rBV | 3623235 | 6230328 | 46.10% | 3.109% |
| 8 | 11.404 | 1425 | 1431 | 1435 | rBV | 465280 | 780013 | 5.77% | 0.389% |
| 9 | 11.810 | 1493 | 1500 | 1505 | rBV | 1375258 | 2172425 | 16.07% | 1.084% |
| 10 | 11.881 | 1505 | 1512 | 1519 | rVV4 | 333631 | 914449 | 6.77% | 0.456% |
| 11 | 12.028 | 1532 | 1537 | 1545 | rVB2 | 412225 | 802161 | 5.94% | 0.400% |
| 12 | 12.245 | 1569 | 1574 | 1580 | rBV | 340883 | 600794 | 4.45% | 0.300% |
| 13 | 12.639 | 1636 | 1641 | 1651 | rBV3 | 240969 | 595165 | 4.40% | 0.297% |
| 14 | 12.781 | 1660 | 1665 | 1669 | rVV | 578278 | 774680 | 5.73% | 0.387% |
| 15 | 13.075 | 1706 | 1715 | 1726 | rVB | 2089912 | 3360319 | 24.86% | 1.677% |
| 16 | 13.545 | 1790 | 1795 | 1800 | rVV | 583980 | 995811 | 7.37% | 0.497% |
| 17 | 13.598 | 1800 | 1804 | 1808 | rVV2 | 357560 | 539275 | 3.99% | 0.269% |
| 18 | 13.645 | 1808 | 1812 | 1815 | rVV | 1082760 | 1597259 | 11.82% | 0.797% |
| 19 | 13.681 | 1815 | 1818 | 1823 | rVV3 | 949047 | 1570762 | 11.62% | 0.784% |
| 20 | 13.739 | 1824 | 1828 | 1831 | rVV2 | 522256 | 725780 | 5.37% | 0.362% |
| 21 | 13.781 | 1831 | 1835 | 1840 | rVB2 | 396907 | 556430 | 4.12% | 0.278% |
| 22 | 13.916 | 1852 | 1858 | 1860 | rBV | 945678 | 1440749 | 10.66% | 0.719% |
| 23 | 13.945 | 1860 | 1863 | 1877 | rVB | 2089936 | 3075938 | 22.76% | 1.535% |
| 24 | 14.157 | 1894 | 1899 | 1904 | rBV | 2077574 | 2628018 | 19.45% | 1.312% |
| 25 | 14.228 | 1904 | 1911 | 1918 | rVV2 | 4392826 | 6908929 | 51.12% | 3.448% |
| 26 | 14.433 | 1941 | 1946 | 1954 | rBV2 | 291227 | 654589 | 4.84% | 0.327% |
| 27 | 14.781 | 1998 | 2005 | 2009 | rVB3 | 380527 | 580694 | 4.30% | 0.290% |
| 28 | 14.839 | 2009 | 2015 | 2021 | rBV3 | 506859 | 1059120 | 7.84% | 0.529% |
| 29 | 15.116 | 2056 | 2062 | 2066 | rVB2 | 1607318 | 2224643 | 16.46% | 1.110% |
| 30 | 15.228 | 2075 | 2081 | 2086 | rVB | 1393871 | 2096323 | 15.51% | 1.046% |
| 31 | 15.286 | 2086 | 2091 | 2096 | rBV3 | 342349 | 750050 | 5.55% | 0.374% |
| 32 | 15.522 | 2120 | 2131 | 2136 | rVV4 | 404807 | 1122003 | 8.30% | 0.560% |
| 33 | 15.980 | 2202 | 2209 | 2212 | rBV | 1188911 | 1734660 | 12.84% | 0.866% |
| 34 | 16.563 | 2303 | 2308 | 2316 | rVB | 530293 | 818927 | 6.06% | 0.409% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

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_N\METHODS\SOM-EPA-BN041919MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.775 | 2340 | 2344 | 2350 | rVV2 | 799226 | 1087336 | 8.05% | 0.543% |
| 36 | 16.980 | 2373 | 2379 | 2383 | rBV2 | 5141492 | 7390752 | 54.69% | 3.688% |
| 37 | 17.022 | 2383 | 2386 | 2391 | rVV | 1757307 | 2361599 | 17.47% | 1.179% |
| 38 | 17.080 | 2391 | 2396 | 2399 | rVV | 1148671 | 1724094 | 12.76% | 0.860% |
| 39 | 17.116 | 2399 | 2402 | 2406 | rVB | 1090532 | 1362519 | 10.08% | 0.680% |
| 40 | 17.516 | 2465 | 2470 | 2475 | rVV2 | 695037 | 910234 | 6.74% | 0.454% |
| 41 | 17.680 | 2489 | 2498 | 2510 | rVB | 988613 | 2049032 | 15.16% | 1.023% |
| 42 | 17.804 | 2511 | 2519 | 2522 | rBV2 | 453351 | 823275 | 6.09% | 0.411% |
| 43 | 17.863 | 2525 | 2529 | 2533 | rVV | 960185 | 1374005 | 10.17% | 0.686% |
| 44 | 17.904 | 2533 | 2536 | 2544 | rVB | 1489414 | 2117181 | 15.67% | 1.057% |
| 45 | 17.986 | 2546 | 2550 | 2555 | rBV | 533524 | 748329 | 5.54% | 0.373% |
| 46 | 18.051 | 2555 | 2561 | 2566 | rBV2 | 1399258 | 2795597 | 20.69% | 1.395% |
| 47 | 18.092 | 2566 | 2568 | 2572 | rVB | 637506 | 673244 | 4.98% | 0.336% |
| 48 | 18.369 | 2611 | 2615 | 2619 | rVB | 1070030 | 1427538 | 10.56% | 0.712% |
| 49 | 18.622 | 2654 | 2658 | 2662 | rVV2 | 421810 | 638856 | 4.73% | 0.319% |
| 50 | 18.669 | 2662 | 2666 | 2670 | rVV2 | 419393 | 639023 | 4.73% | 0.319% |
| 51 | 18.792 | 2682 | 2687 | 2692 | rVV2 | 1144872 | 1934952 | 14.32% | 0.966% |
| 52 | 18.851 | 2692 | 2697 | 2701 | rVV3 | 1006969 | 1820596 | 13.47% | 0.909% |
| 53 | 18.927 | 2706 | 2710 | 2724 | rVV3 | 1561110 | 3455579 | 25.57% | 1.725% |
| 54 | 19.057 | 2727 | 2732 | 2738 | rVV2 | 3100520 | 4606467 | 34.09% | 2.299% |
| 55 | 19.127 | 2740 | 2744 | 2747 | rVV | 556284 | 828028 | 6.13% | 0.413% |
| 56 | 19.163 | 2748 | 2750 | 2754 | rVV3 | 315242 | 519176 | 3.84% | 0.259% |
| 57 | 19.210 | 2754 | 2758 | 2762 | rVV | 786242 | 1130855 | 8.37% | 0.564% |
| 58 | 19.327 | 2773 | 2778 | 2785 | rVB | 992011 | 1491939 | 11.04% | 0.745% |
| 59 | 19.427 | 2790 | 2795 | 2803 | rVB | 9513572 | 13514542 | 100.00% | 6.745% |
| 60 | 19.510 | 2805 | 2809 | 2814 | rVB4 | 458527 | 733102 | 5.42% | 0.366% |
| 61 | 19.657 | 2830 | 2834 | 2842 | rVB4 | 526754 | 1143302 | 8.46% | 0.571% |
| 62 | 19.757 | 2846 | 2851 | 2861 | rBV2 | 1325126 | 2534464 | 18.75% | 1.265% |
| 63 | 19.904 | 2869 | 2876 | 2878 | rBV2 | 1453551 | 2875434 | 21.28% | 1.435% |
| 64 | 20.027 | 2893 | 2897 | 2902 | rVB | 1040354 | 1247679 | 9.23% | 0.623% |
| 65 | 20.086 | 2903 | 2907 | 2911 | rVV | 2336138 | 2901274 | 21.47% | 1.448% |
| 66 | 20.227 | 2926 | 2931 | 2935 | rVV | 2141311 | 2879365 | 21.31% | 1.437% |
| 67 | 20.274 | 2935 | 2939 | 2944 | rVB | 2162642 | 2803548 | 20.74% | 1.399% |
| 68 | 20.651 | 2997 | 3003 | 3005 | rBV2 | 497845 | 907602 | 6.72% | 0.453% |
| 69 | 20.680 | 3006 | 3008 | 3016 | rVB2 | 730017 | 1406429 | 10.41% | 0.702% |
| 70 | 20.821 | 3028 | 3032 | 3035 | rBV4 | 452340 | 759141 | 5.62% | 0.379% |
| 71 | 20.892 | 3041 | 3044 | 3047 | rBV | 701032 | 733173 | 5.43% | 0.366% |

LSC Area Percent Report

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Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

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_N\METHODS\SOM-EPA-BN041919MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.927 | 3047 | 3050 | 3053 | rBV | 540860 | 678557 | 5.02% | 0.339% |
| 73 | 21.204 | 3091 | 3097 | 3102 | rBV2 | 6000733 | 12648175 | 93.59% | 6.312% |
| 74 | 21.245 | 3102 | 3104 | 3111 | rVB2 | 2684674 | 4014038 | 29.70% | 2.003% |
| 75 | 21.415 | 3129 | 3133 | 3139 | rVB | 1309049 | 2000369 | 14.80% | 0.998% |
| 76 | 21.710 | 3179 | 3183 | 3186 | rBV2 | 593780 | 852476 | 6.31% | 0.425% |
| 77 | 21.762 | 3186 | 3192 | 3196 | rVV | 1987435 | 3476307 | 25.72% | 1.735% |
| 78 | 21.810 | 3196 | 3200 | 3207 | rVV3 | 1243991 | 2277095 | 16.85% | 1.136% |
| 79 | 21.880 | 3207 | 3212 | 3214 | rVV2 | 726787 | 1361199 | 10.07% | 0.679% |
| 80 | 21.904 | 3214 | 3216 | 3220 | rVV2 | 867370 | 1326226 | 9.81% | 0.662% |
| 81 | 21.951 | 3220 | 3224 | 3227 | rVV2 | 1075102 | 1774843 | 13.13% | 0.886% |
| 82 | 21.986 | 3227 | 3230 | 3235 | rVV2 | 1398026 | 2014361 | 14.91% | 1.005% |
| 83 | 22.057 | 3239 | 3242 | 3247 | rVB2 | 544859 | 763578 | 5.65% | 0.381% |
| 84 | 22.292 | 3280 | 3282 | 3287 | rVB2 | 548151 | 723822 | 5.36% | 0.361% |
| 85 | 22.592 | 3330 | 3333 | 3343 | rVB2 | 427704 | 857463 | 6.34% | 0.428% |
| 86 | 22.762 | 3355 | 3362 | 3366 | rBV2 | 2008232 | 5039932 | 37.29% | 2.515% |
| 87 | 22.921 | 3384 | 3389 | 3399 | rVB | 969977 | 1773227 | 13.12% | 0.885% |
| 88 | 23.221 | 3434 | 3440 | 3444 | rBV | 1562489 | 2716038 | 20.10% | 1.355% |
| 89 | 23.268 | 3444 | 3448 | 3451 | rVV2 | 670406 | 1194135 | 8.84% | 0.596% |
| 90 | 23.315 | 3451 | 3456 | 3465 | rVV | 2910688 | 5760041 | 42.62% | 2.875% |
| 91 | 23.409 | 3465 | 3472 | 3477 | rVV | 3066381 | 5881758 | 43.52% | 2.935% |
| 92 | 23.457 | 3477 | 3480 | 3488 | rVB3 | 496086 | 1056388 | 7.82% | 0.527% |
| 93 | 23.668 | 3510 | 3516 | 3520 | rBV3 | 277127 | 718814 | 5.32% | 0.359% |
| 94 | 23.986 | 3565 | 3570 | 3576 | rVB2 | 317731 | 541180 | 4.00% | 0.270% |
| 95 | 24.245 | 3609 | 3614 | 3628 | rVB2 | 513826 | 1242918 | 9.20% | 0.620% |
| 96 | 24.715 | 3689 | 3694 | 3700 | rBV2 | 285174 | 570227 | 4.22% | 0.285% |
| 97 | 25.580 | 3832 | 3841 | 3853 | rVB2 | 1091368 | 3400634 | 25.16% | 1.697% |
| 98 | 25.839 | 3878 | 3885 | 3893 | rBV | 355394 | 915596 | 6.77% | 0.457% |
| 99 | 25.933 | 3895 | 3901 | 3906 | rVV2 | 218359 | 505271 | 3.74% | 0.252% |
| 100 | 26.245 | 3946 | 3954 | 3963 | rVB | 598002 | 1718424 | 12.72% | 0.858% |

Sum of corrected areas: 200376098

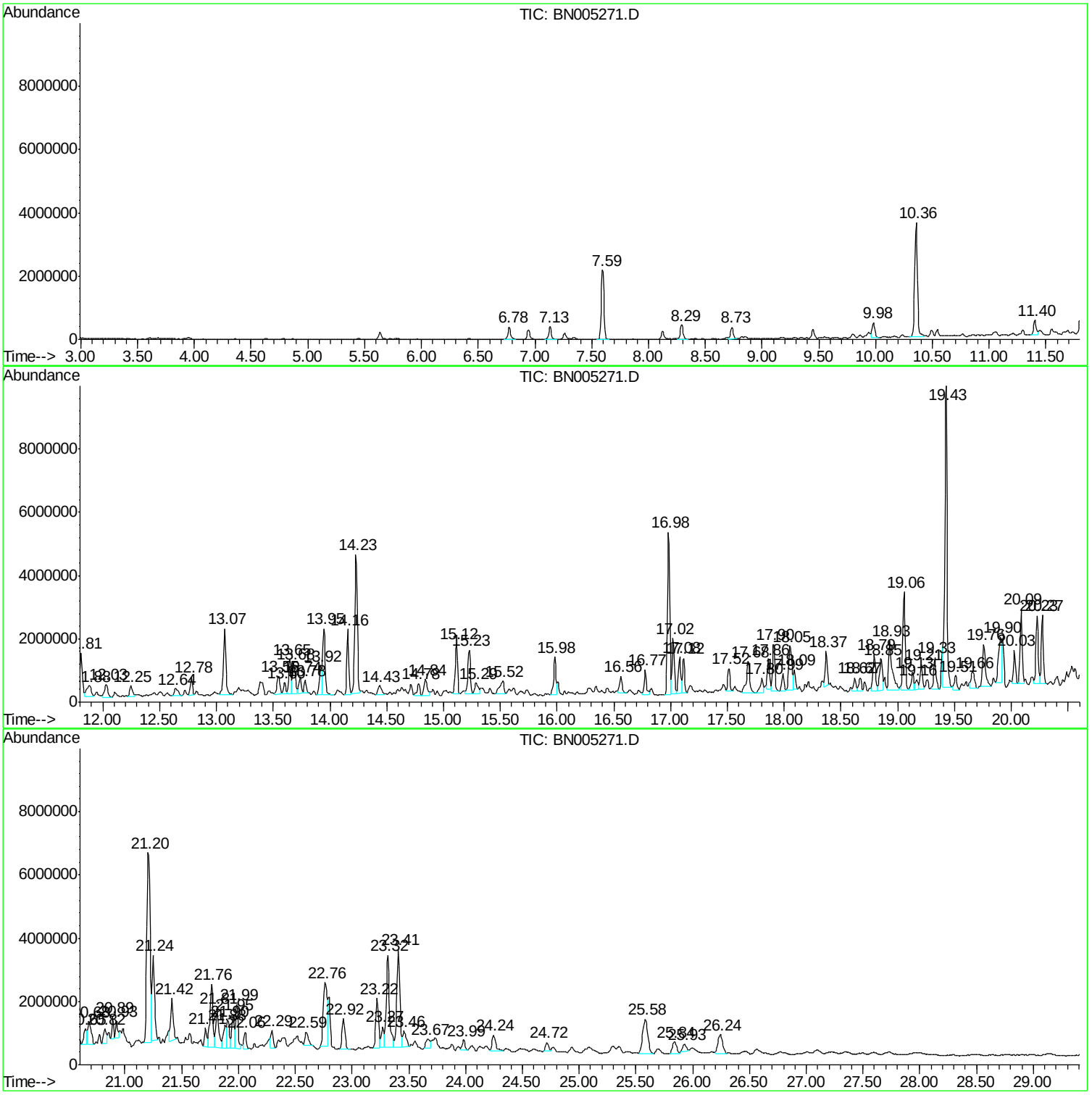
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

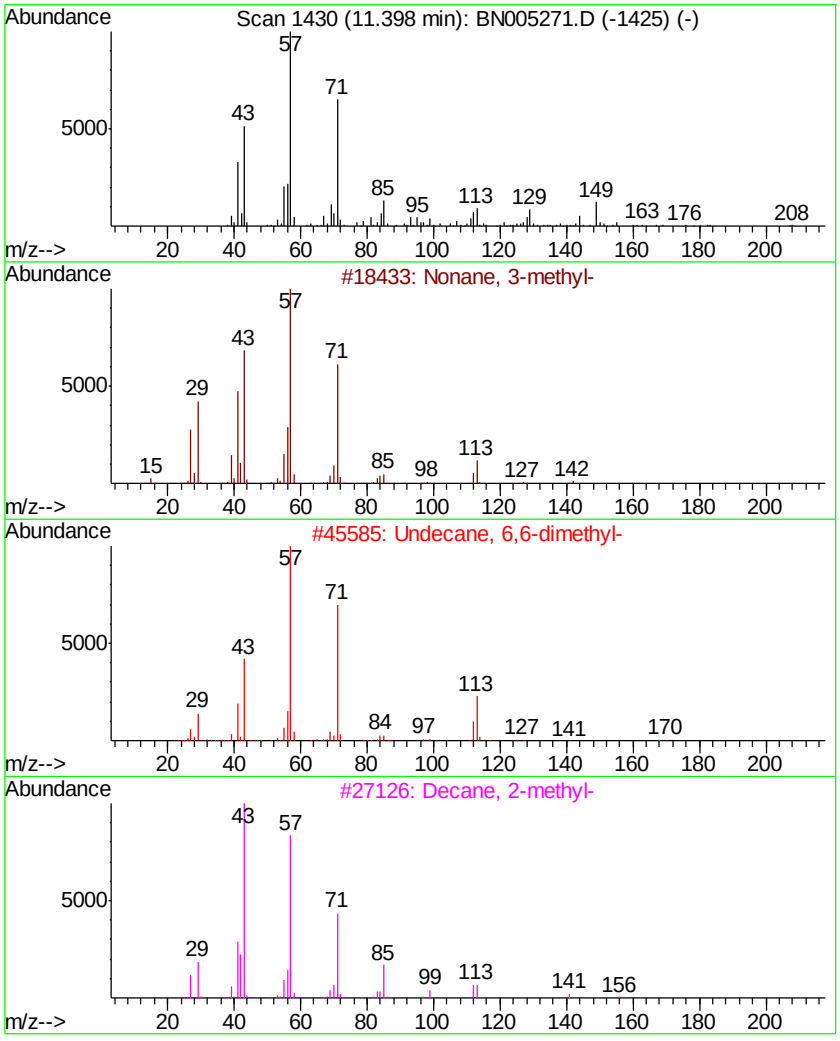
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

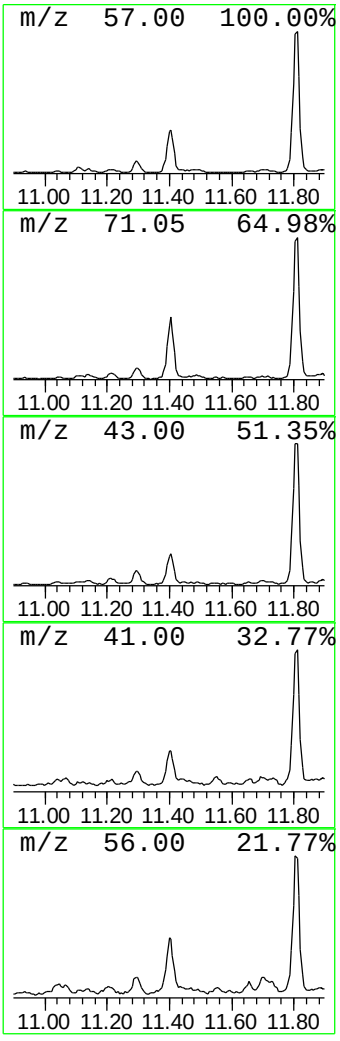
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.40 | 2.50 ng/ul | 780013 | Naphthalene-d8 | 10.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 59 |
| 2 | Undecane, 6,6-dimethyl- | 184 | C13H28 | 017312-76-4 | 59 |
| 3 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 53 |
| 4 | Butane, 2,2-dimethyl- | 86 | C6H14 | 000075-83-2 | 47 |
| 5 | Octane, 2-bromo- | 192 | C8H17Br | 000557-35-7 | 47 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

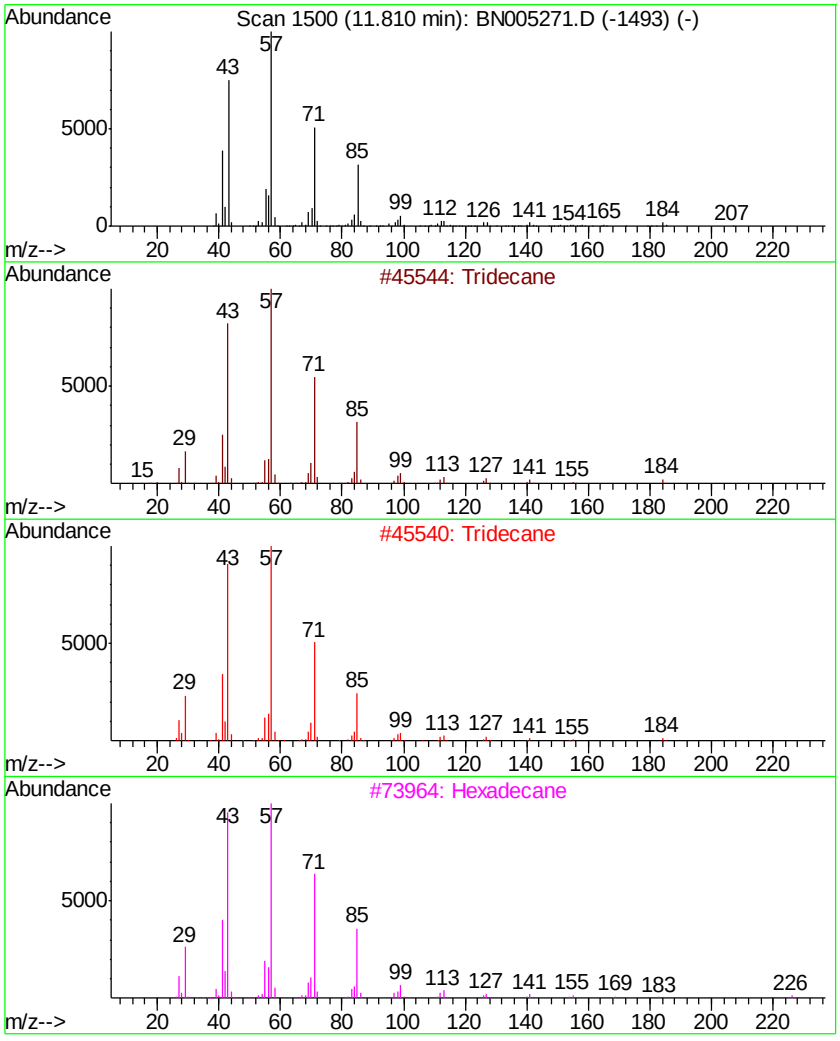
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

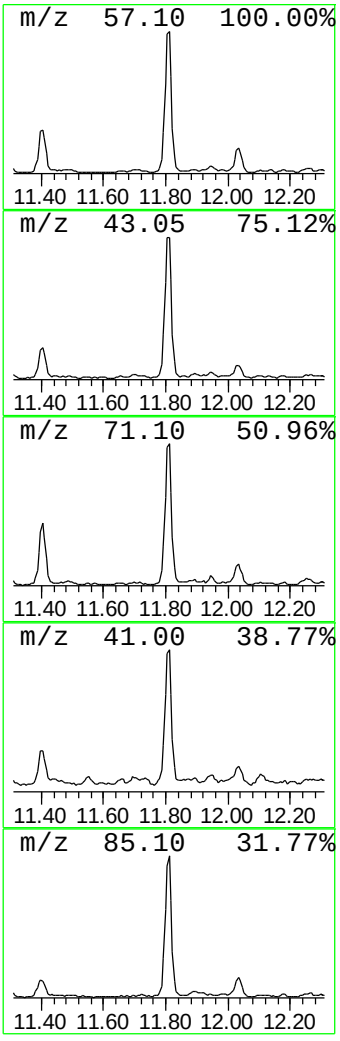
**********

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.81 | 6.97 ng/ul | 2172430 | Naphthalene-d8 | 10.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 94 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 93 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

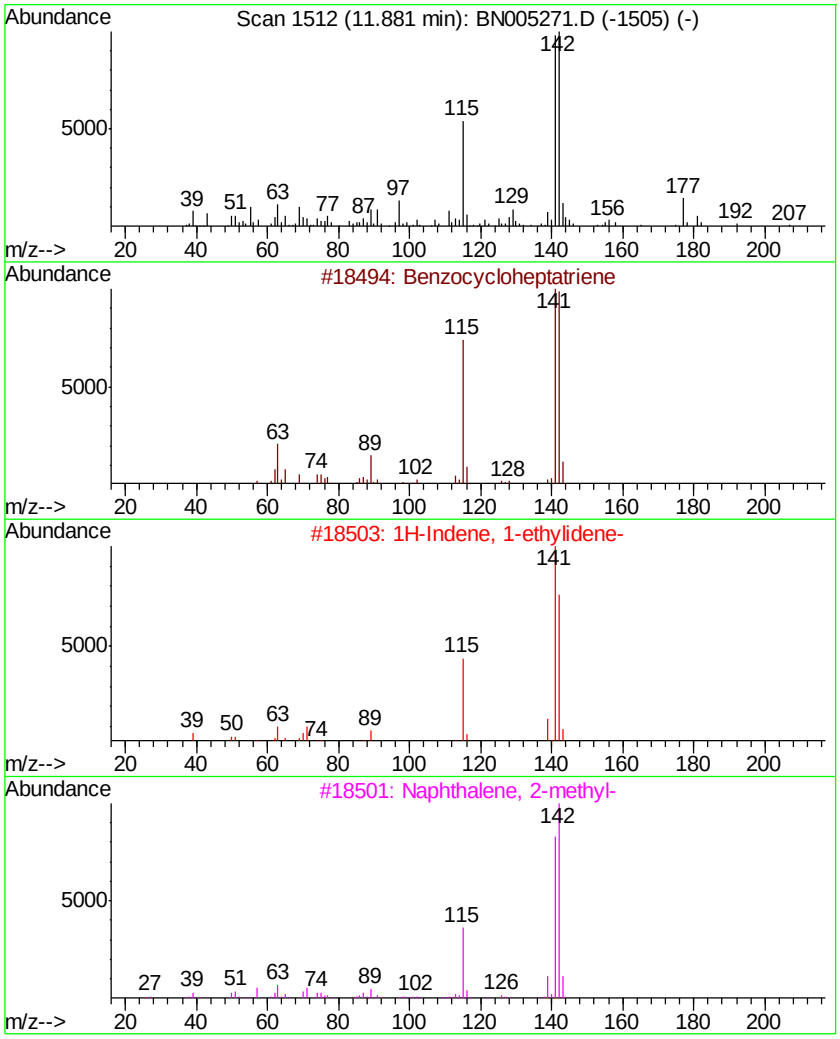
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

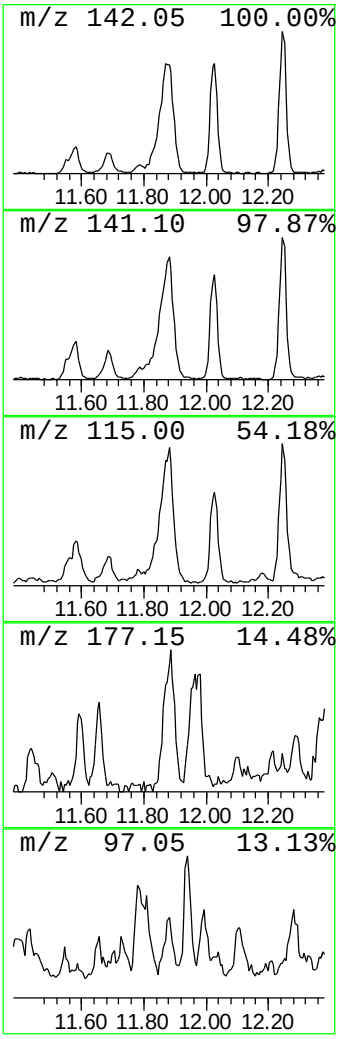
**********

Peak Number 3 Benzocycloheptatriene Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.88 | 2.94 ng/ul | 914449 | Naphthalene-d8 | 10.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 2 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 87 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 87 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 87 |
| 5 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

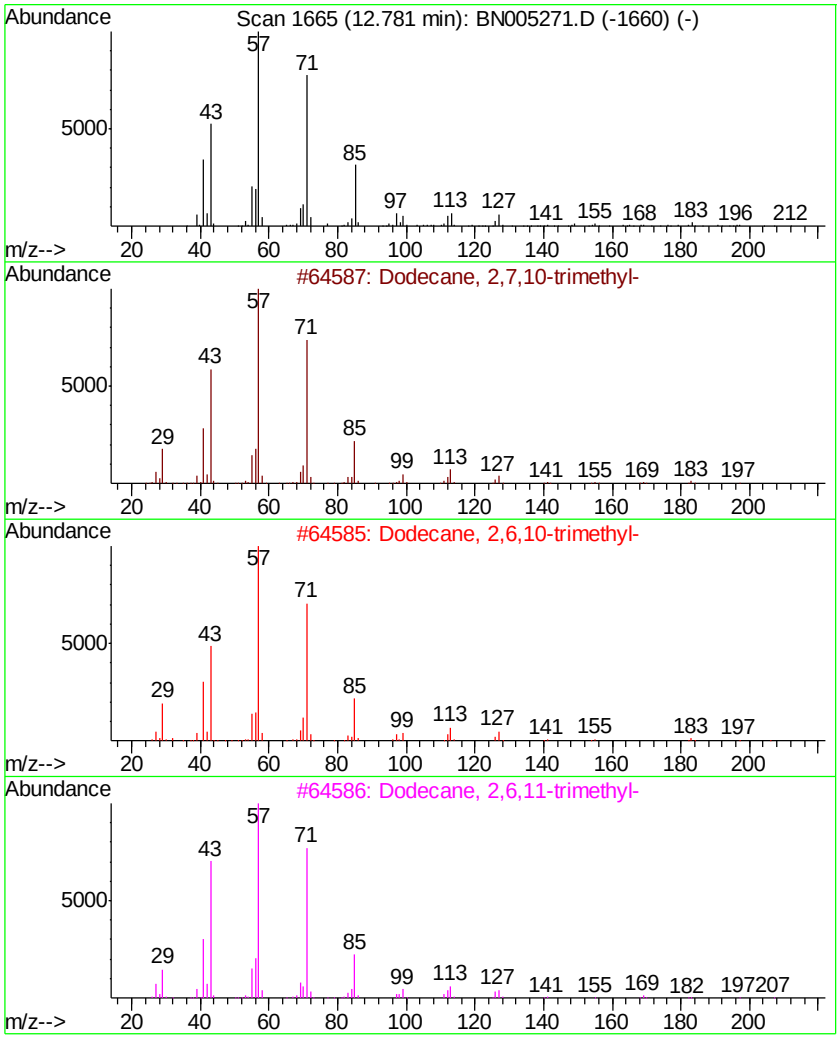
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

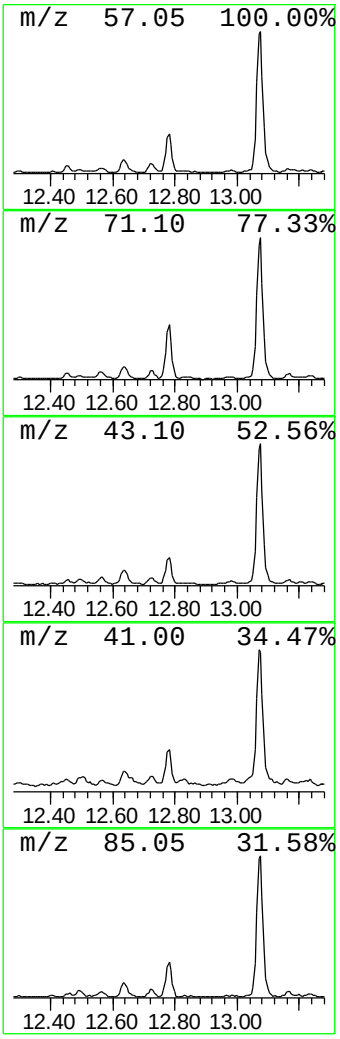
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.78 | 2.24 ng/ul | 774680 | Acenaphthene-d10 | 14.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 91 |
| 2 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 90 |
| 3 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 86 |
| 4 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 83 |
| 5 | Nonane, 3-methyl-5-propyl- | 184 | C13H28 | 031081-18-2 | 72 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

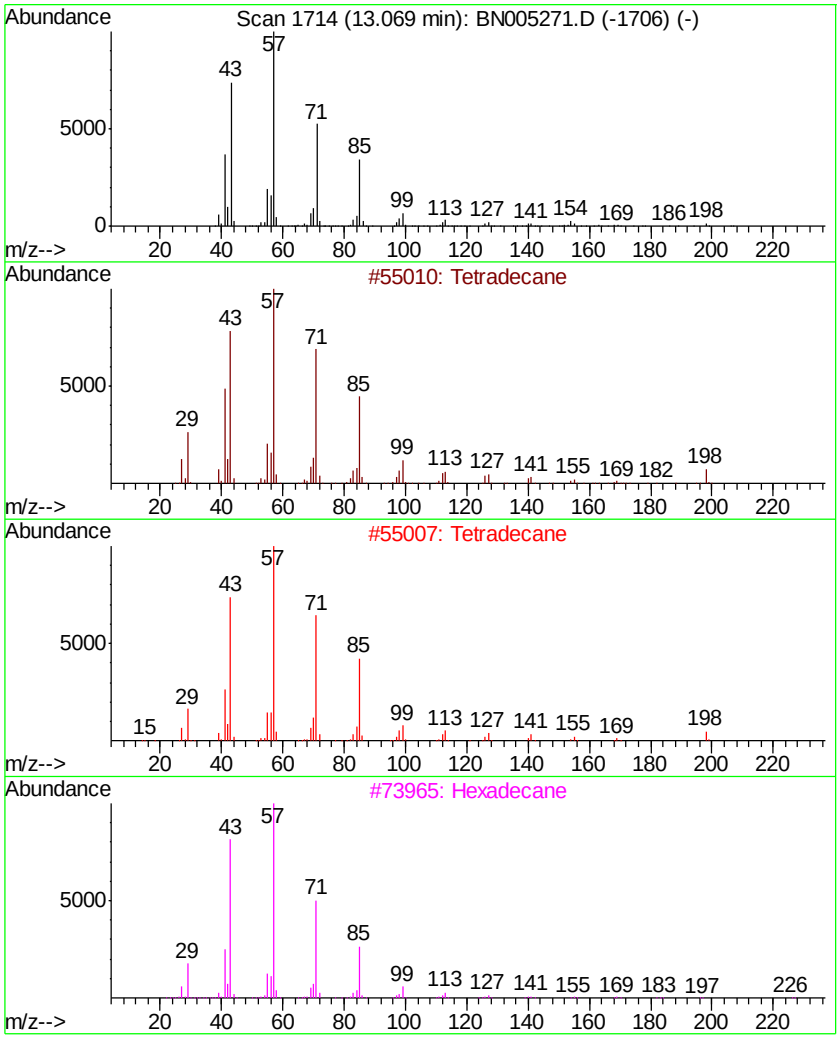
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

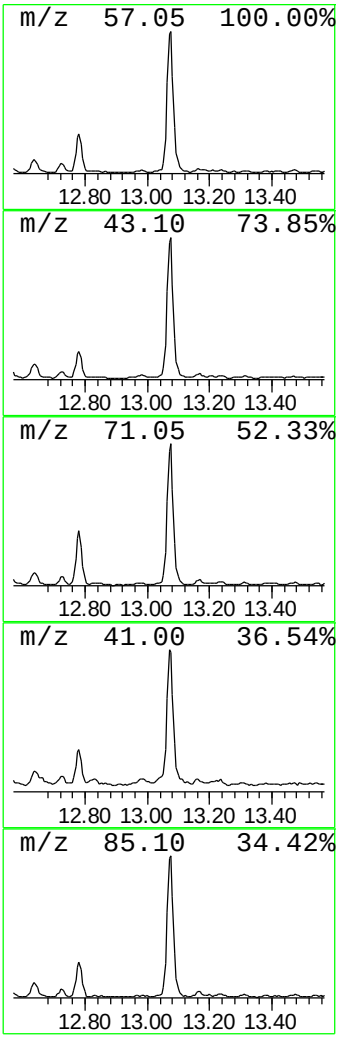
**********

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.07 | 9.73 ng/ul | 3360320 | Acenaphthene-d10 | 14.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 97 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 95 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

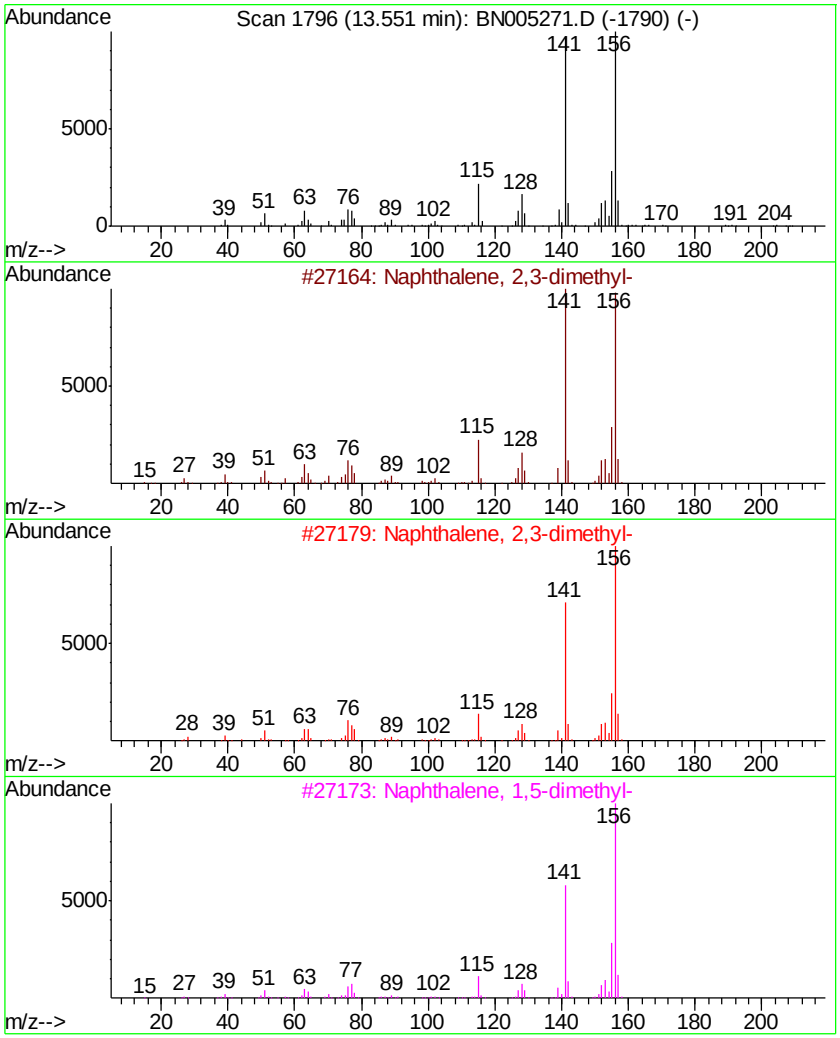
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

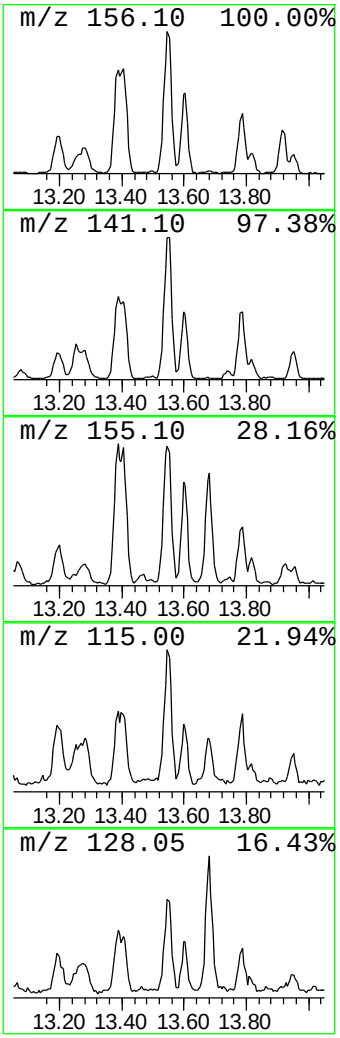
**********

Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.55 | 2.88 ng/ul | 995811 | Acenaphthene-d10 | 14.23 |

| 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, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

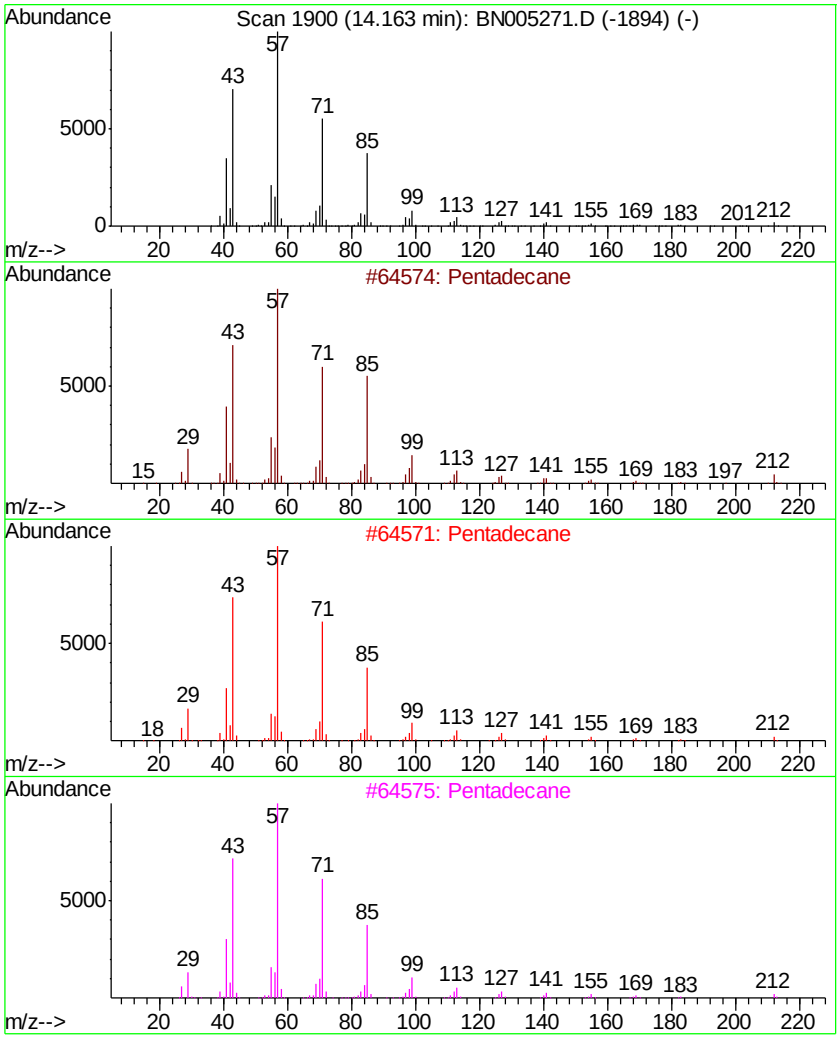
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

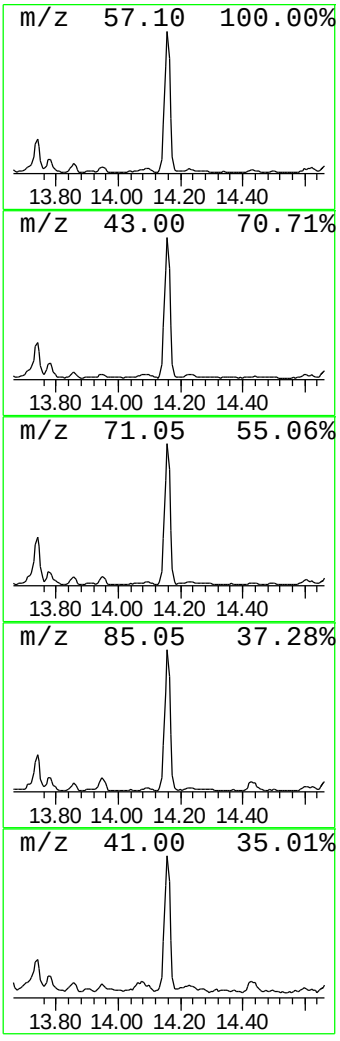
**********

Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.16 | 7.61 ng/ul | 2628020 | Acenaphthene-d10 | 14.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 97 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 96 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 94 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

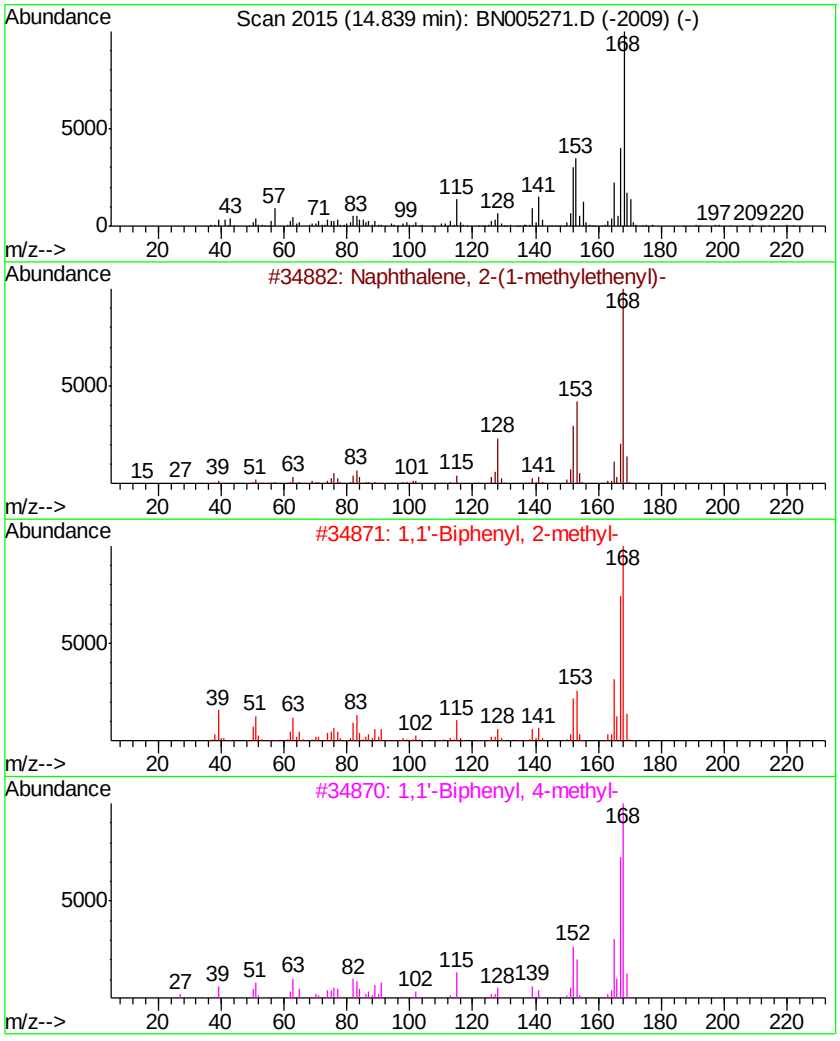
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

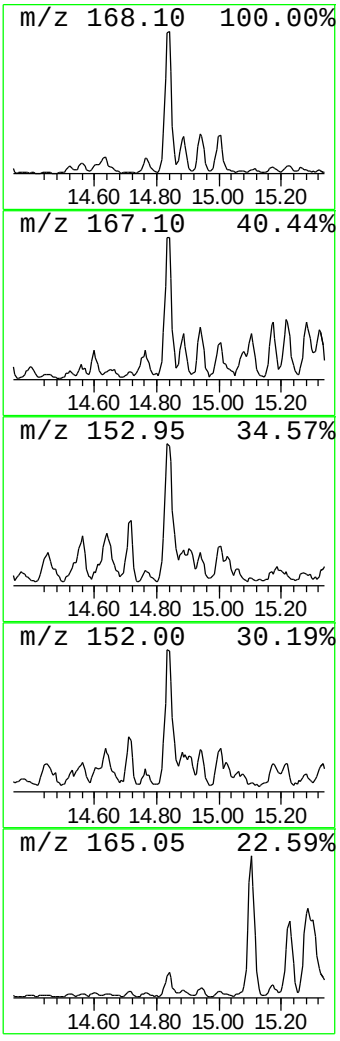
**********

Peak Number 8 Naphthalene, 2-(1-methyleth... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.84 | 3.07 ng/ul | 1059120 | Acenaphthene-d10 | 14.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-(1-methylethenyl)- | 168 | C13H12 | 003710-23-4 | 62 |
| 2 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 53 |
| 3 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 49 |
| 4 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 47 |
| 5 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 46 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

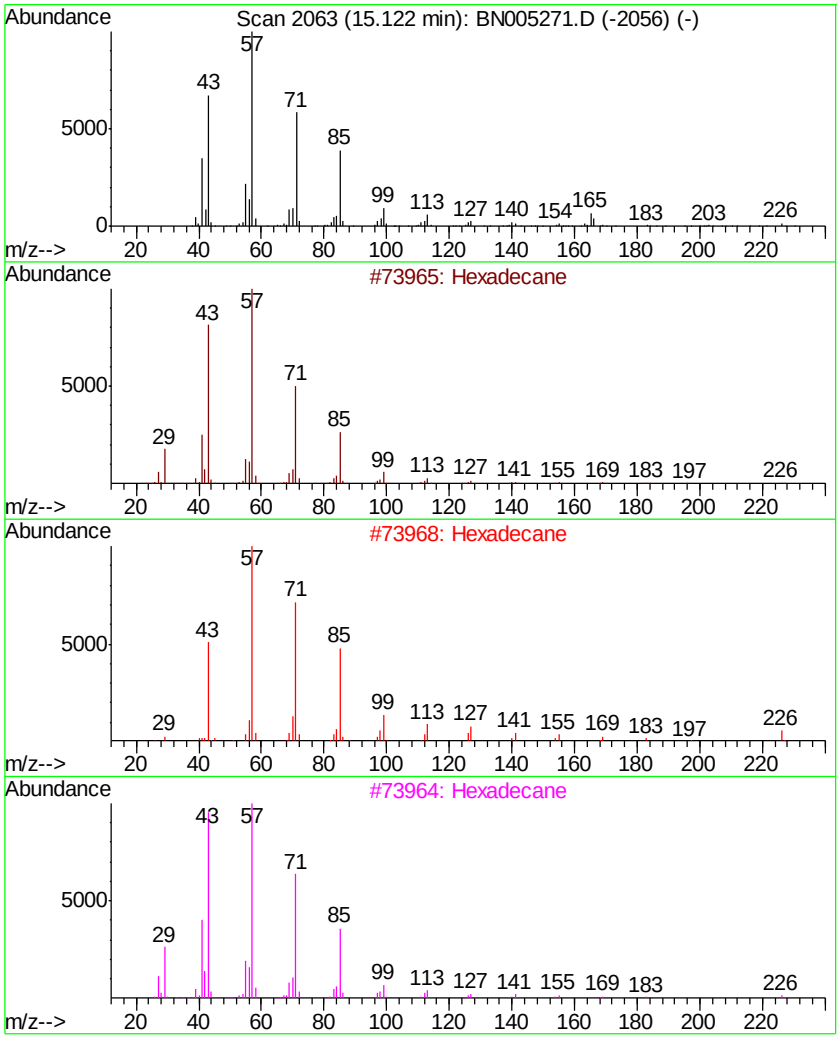
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

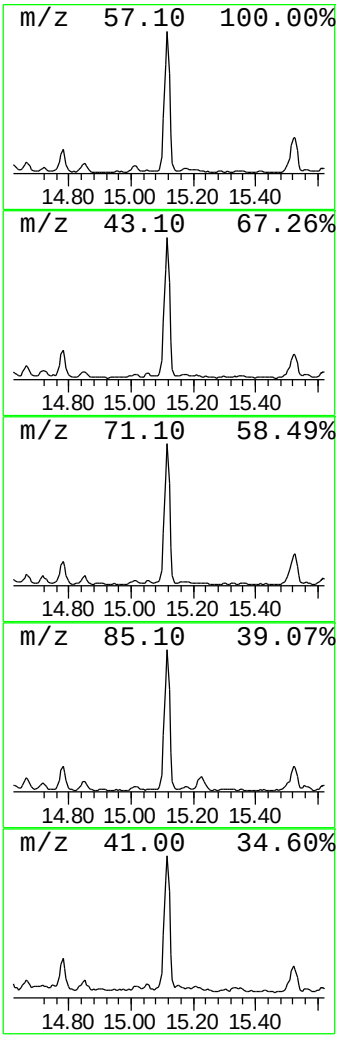
**********

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.12 | 6.44 ng/ul | 2224640 | Acenaphthene-d10 | 14.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 95 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 94 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 93 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 89 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

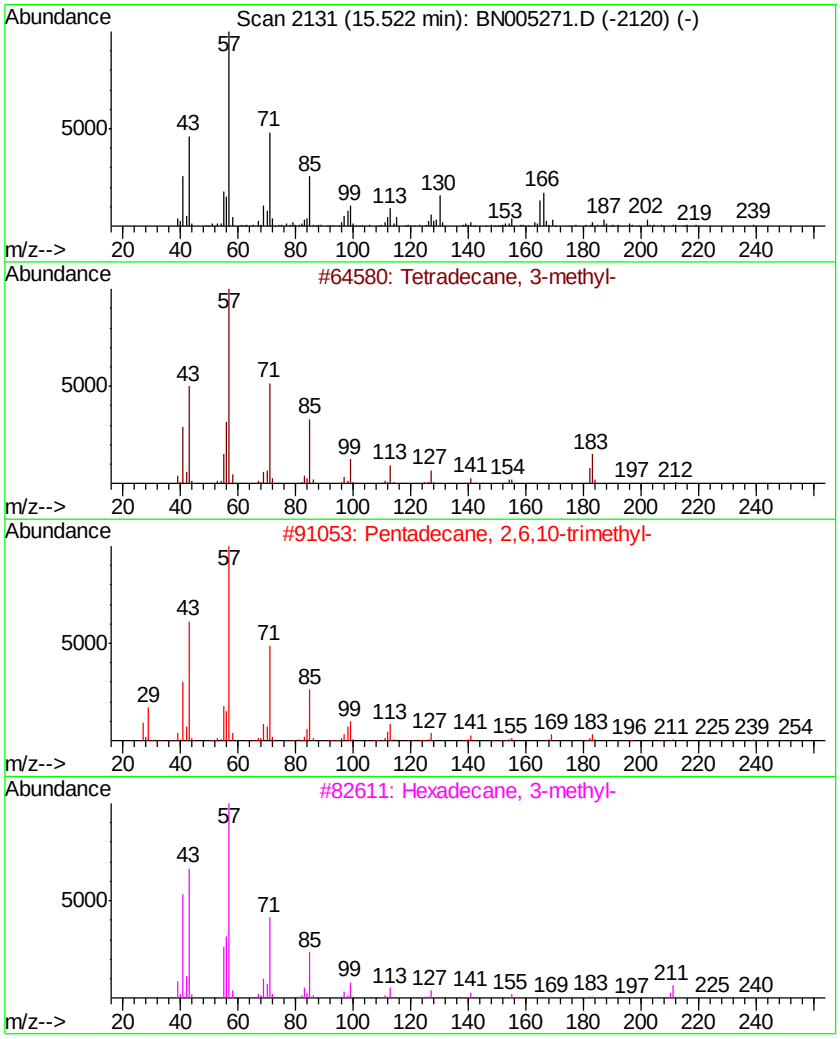
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

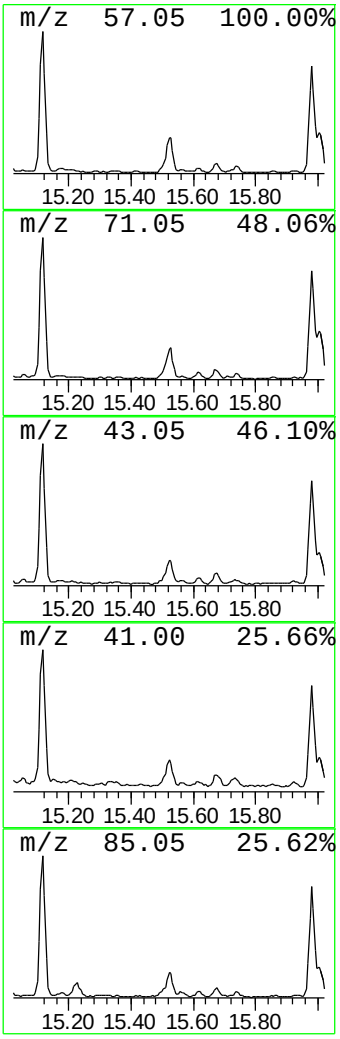
**********

Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.52 | 3.25 ng/ul | 1122000 | Acenaphthene-d10 | 14.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 3-methyl- | 212 | C15H32 | 018435-22-8 | 68 |
| 2 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 64 |
| 3 | Hexadecane, 3-methyl- | 240 | C17H36 | 006418-43-5 | 59 |
| 4 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 58 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

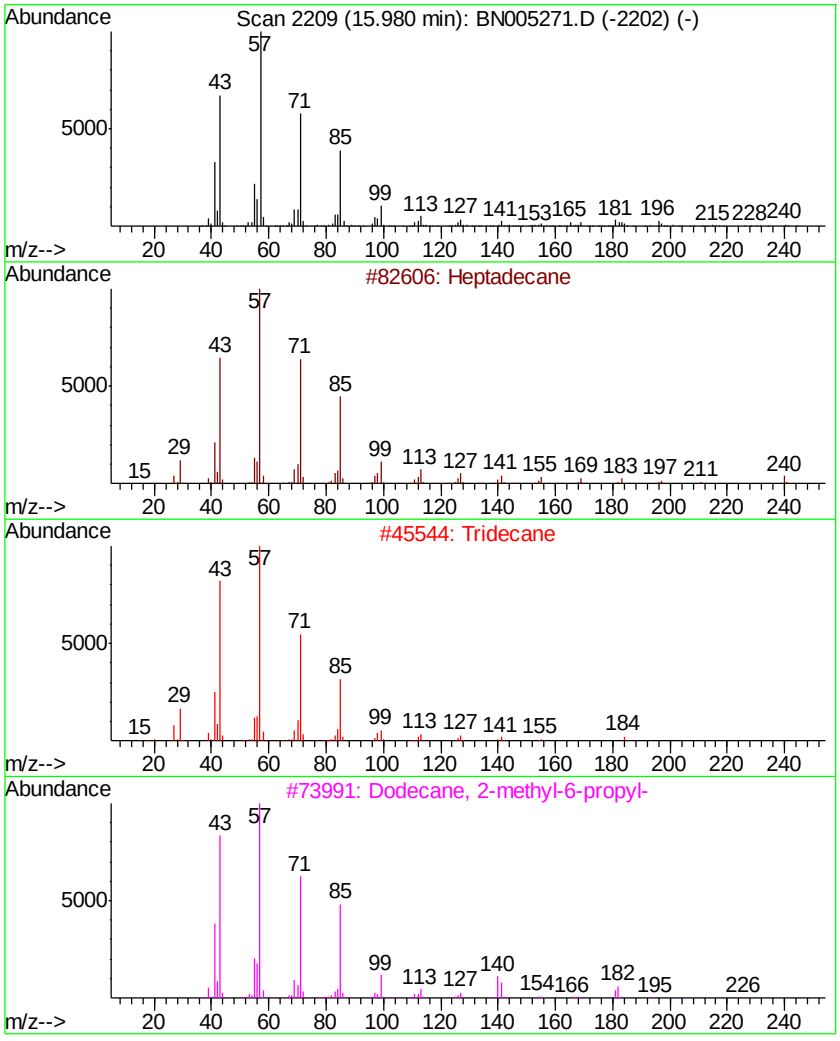
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

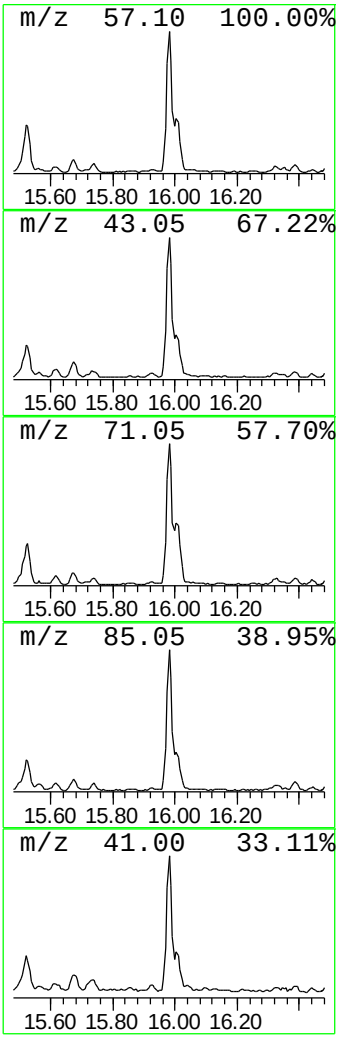
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.98 | 4.69 ng/ul | 1734660 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 96 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 95 |
| 3 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 93 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

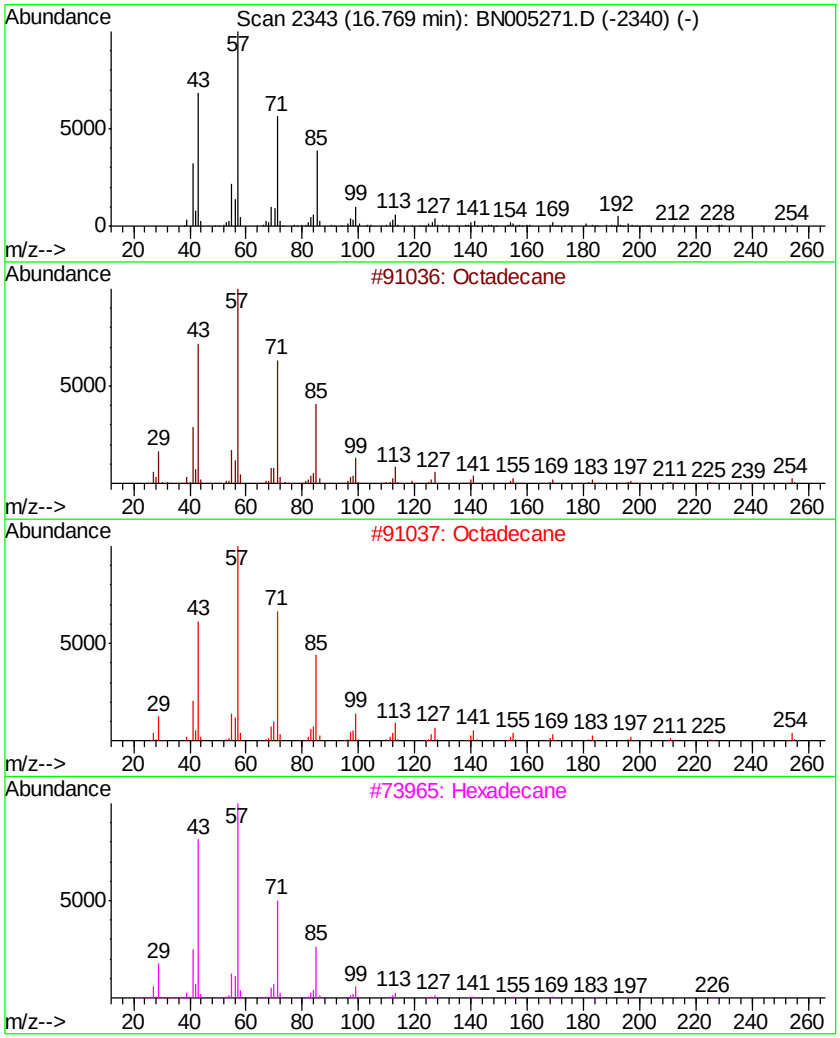
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

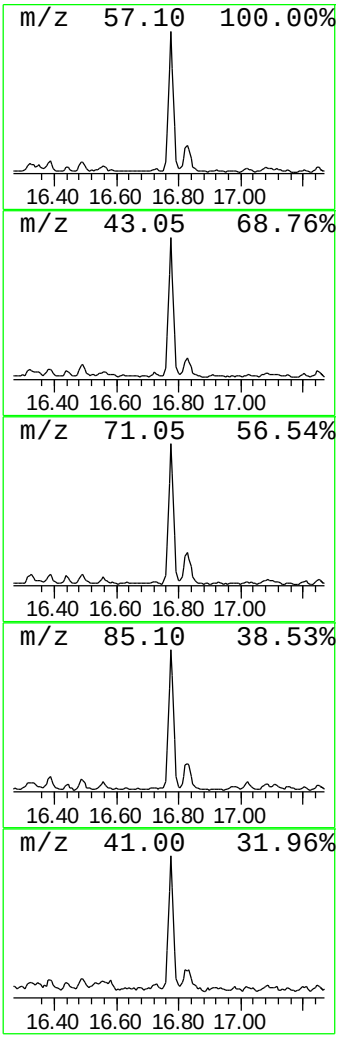
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.77 | 2.94 ng/ul | 1087340 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 95 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 95 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 94 |
| 4 | Tridecane, 6-propyl- | 226 | C16H34 | 055045-10-8 | 94 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

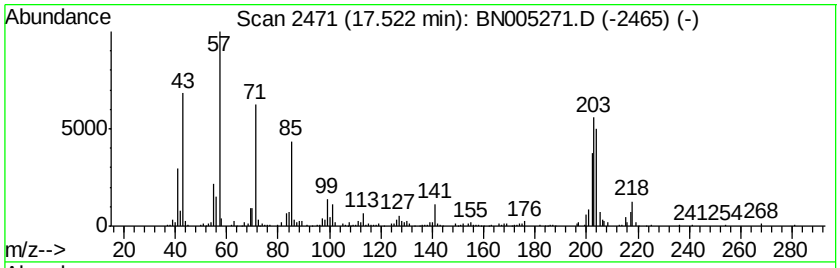
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

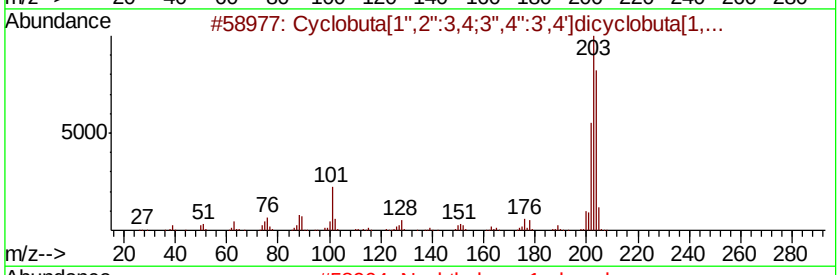
**********

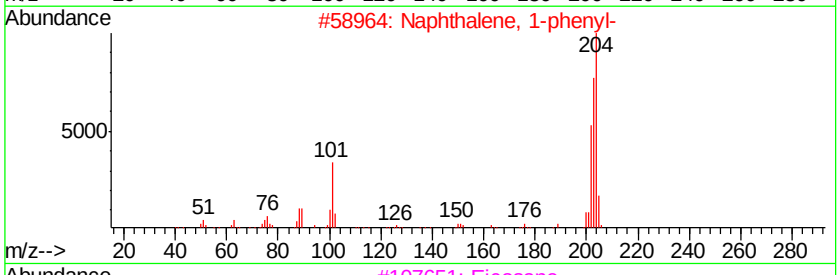
Peak Number 14 unknown-01 Concentration Rank 34

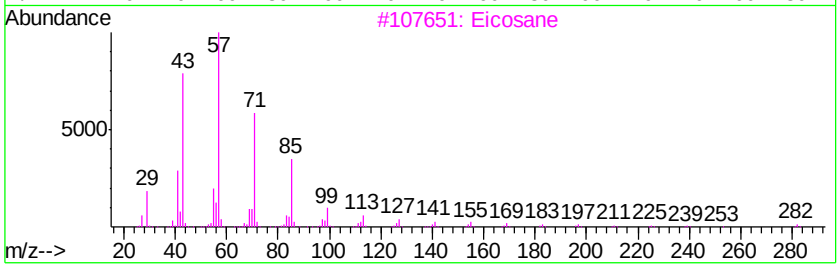
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.52 | 2.46 ng/ul | 910234 | Phenanthrene-d10 | 16.98 |

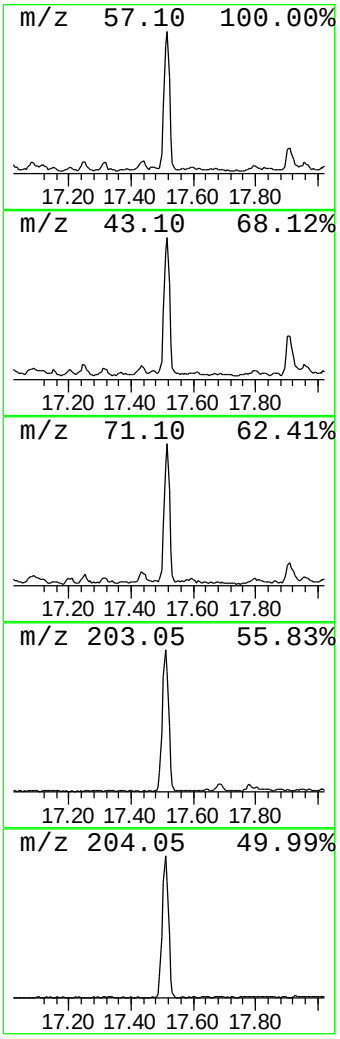
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclobuta[1'',2'':3,4;3'',4'':3'... | 204 | C16H12 | 006574-36-3 | 42 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 42 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 38 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 38 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

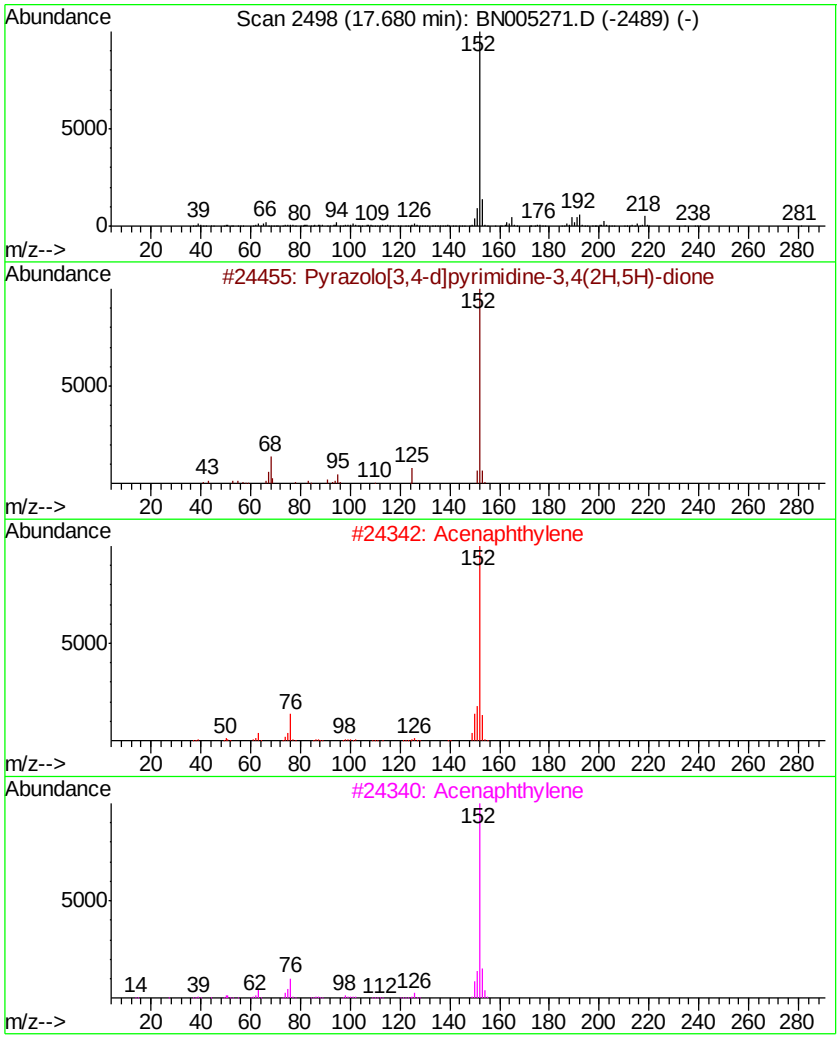
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

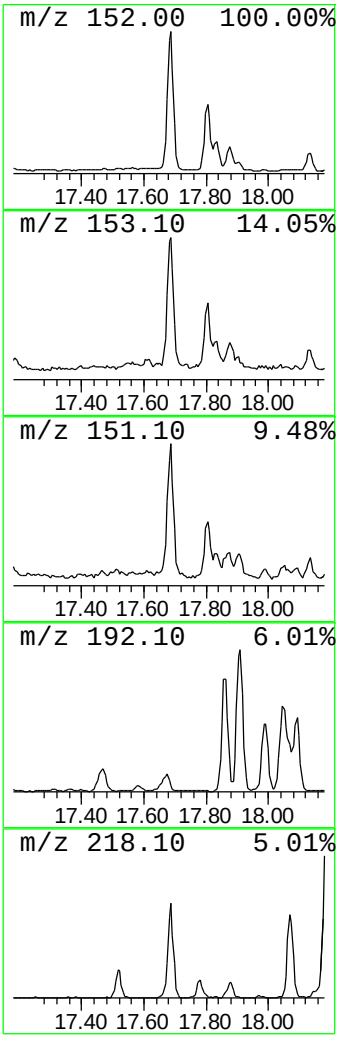
**********

Peak Number 15 unknown-02 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.68 | 5.54 ng/ul | 2049030 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrazolo[3,4-d]pyrimidine-3,4(2H... | 152 | C5H4N4O2 | 128850-53-3 | 38 |
| 2 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 33 |
| 3 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 33 |
| 4 | Biphenylene | 152 | C12H8 | 000259-79-0 | 33 |
| 5 | 2,6-Dimethoxytoluene | 152 | C9H12O2 | 005673-07-4 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

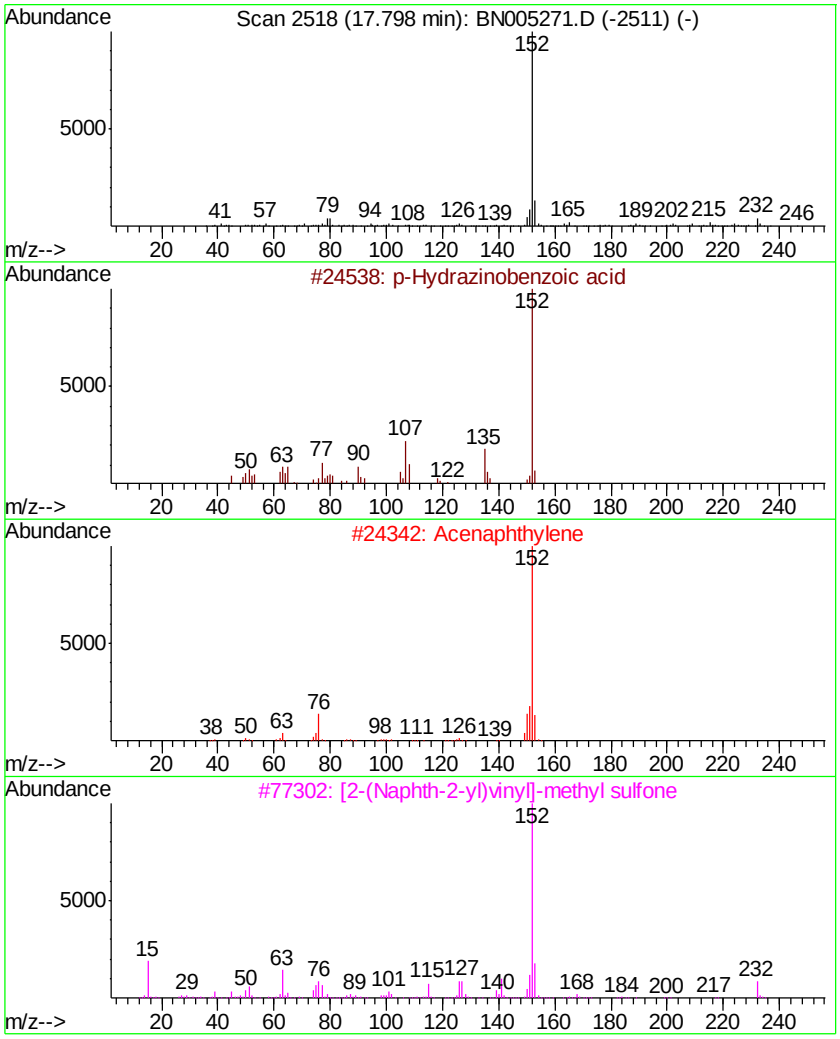
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

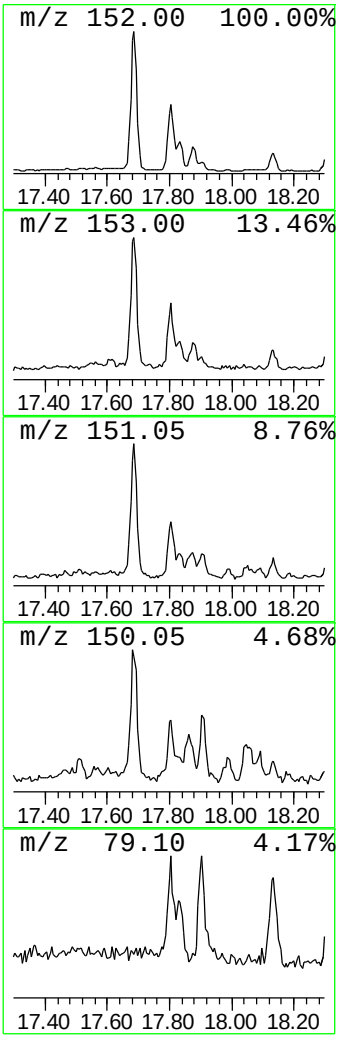
**********

Peak Number 16 unknown-03 Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.80 | 2.23 ng/ul | 823275 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Hydrazinobenzoic acid | 152 | C7H8N2O2 | 000619-67-0 | 40 |
| 2 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 38 |
| 3 | [2-(Naphth-2-yl)vinyl]-methyl su... | 232 | C13H12O2S | 1000286-42-3 | 37 |
| 4 | Tisopurine | 152 | C5H4N4S | 005334-23-6 | 9 |
| 5 | Pyrazolo[3,4-d]pyrimidine-3,4(2H... | 152 | C5H4N4O2 | 128850-53-3 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

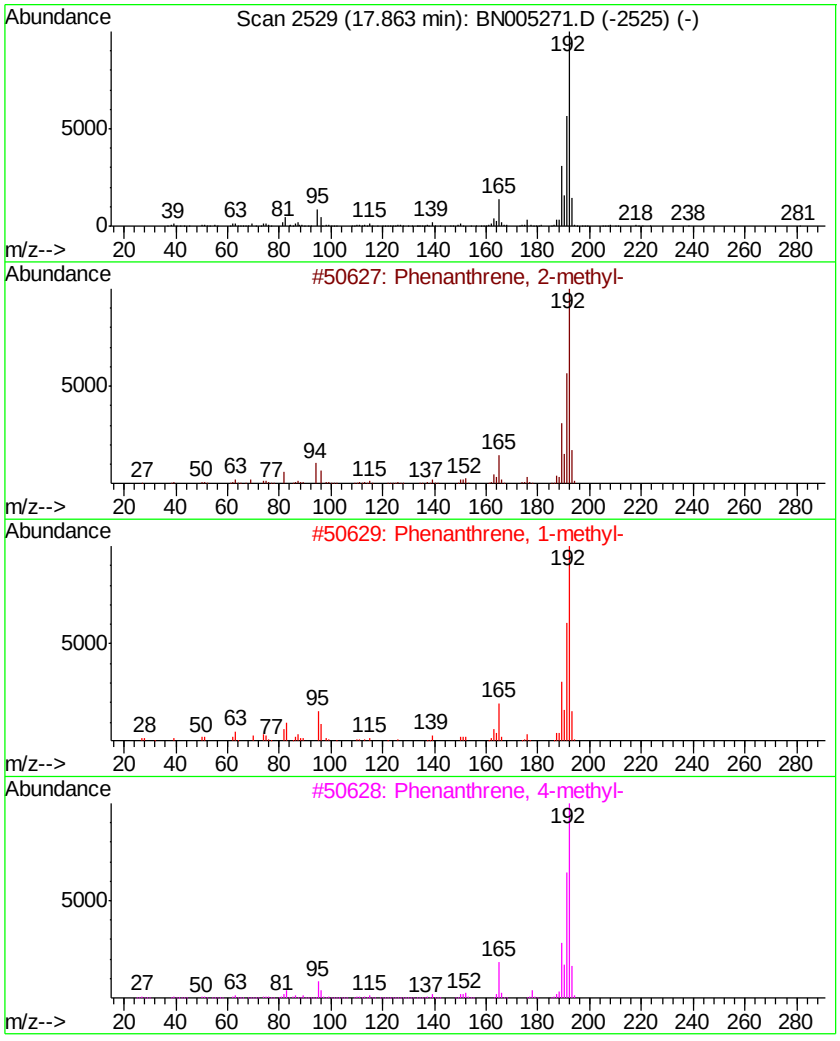
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

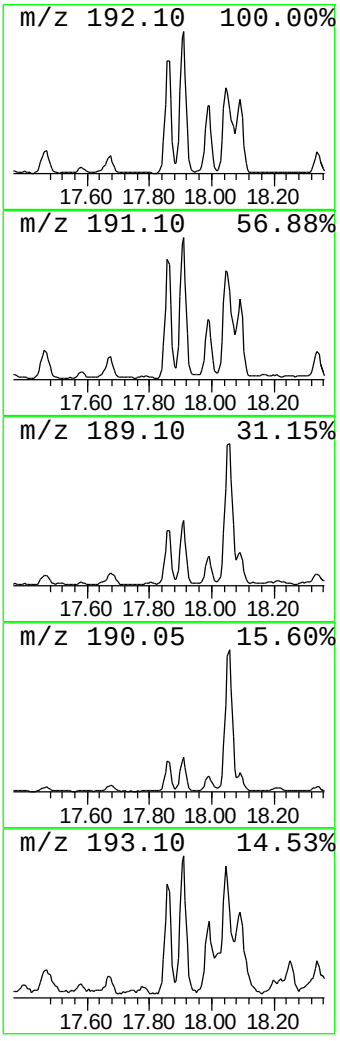
**********

Peak Number 17 Phenanthrene, 2-methyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.86 | 3.72 ng/ul | 1374010 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 94 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

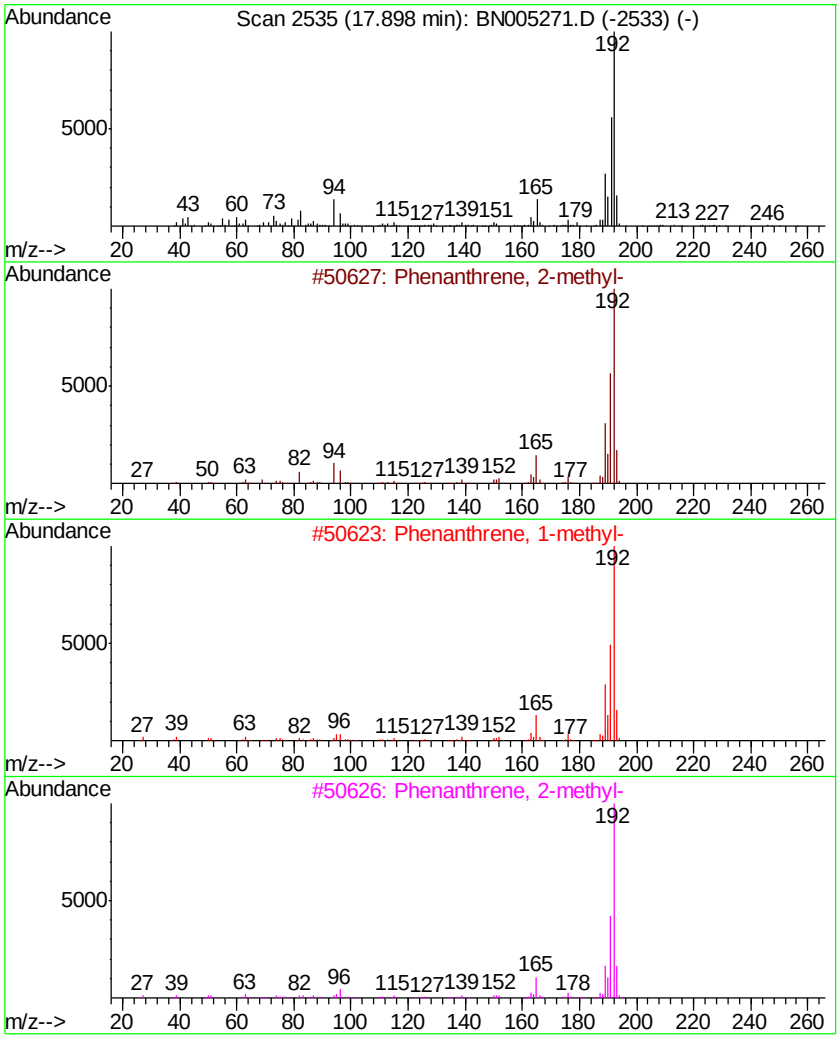
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

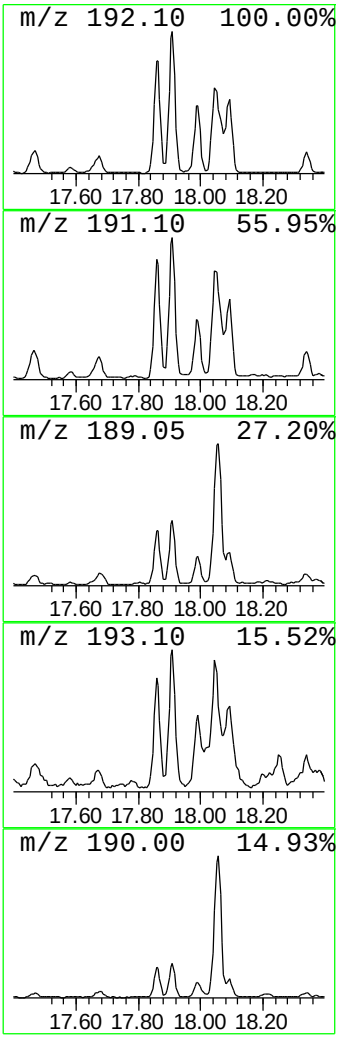
**********

Peak Number 18 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.90 | 5.73 ng/ul | 2117180 | Phenanthrene-d10 | 16.98 |

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

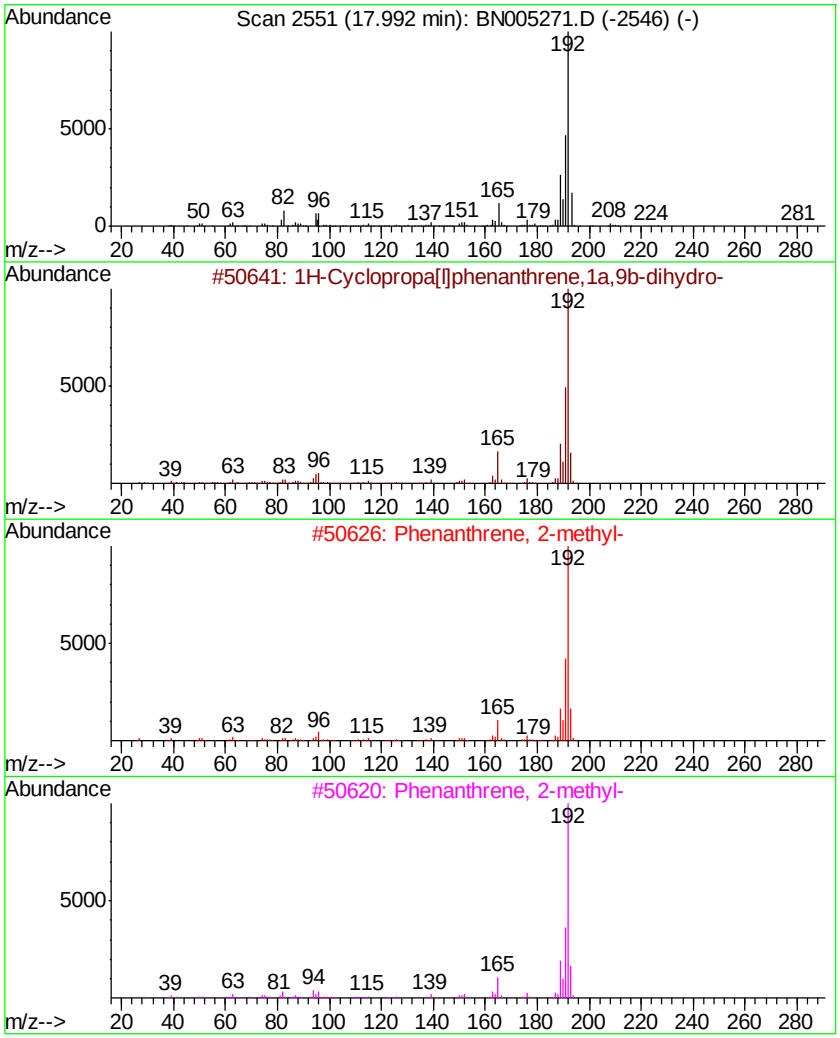
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

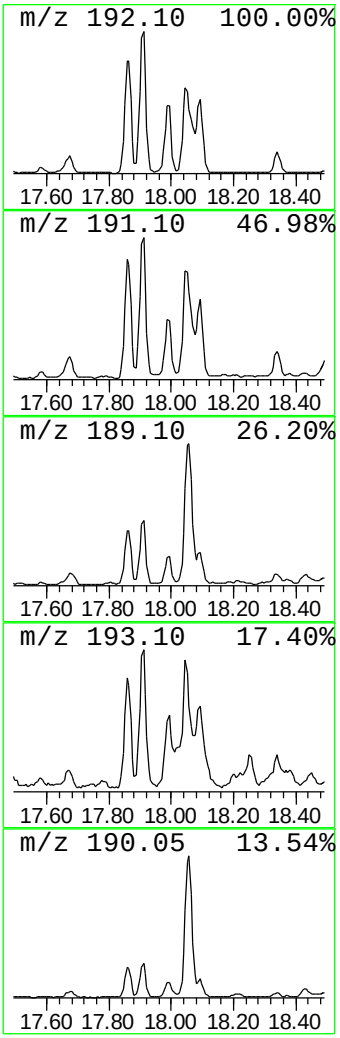
**********

Peak Number 19 1H-Cyclopropa[l]phenanthren... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.99 | 2.03 ng/ul | 748329 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 96 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |



# Library Search Compound Report

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Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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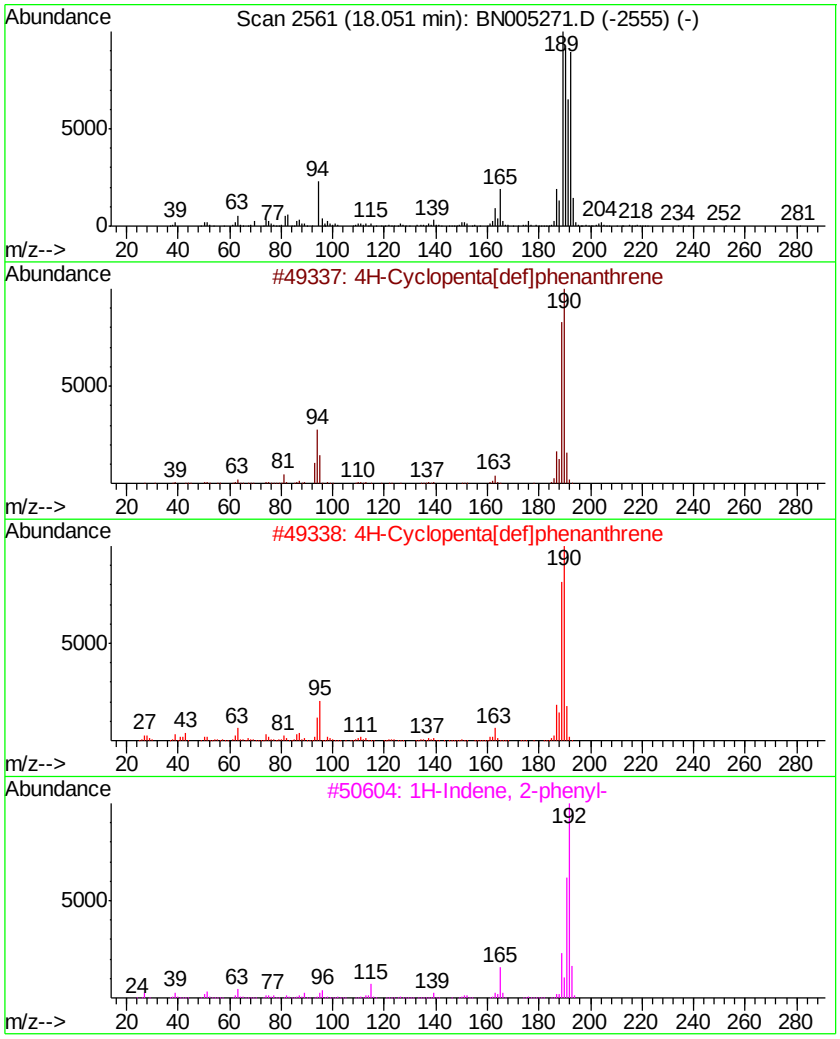
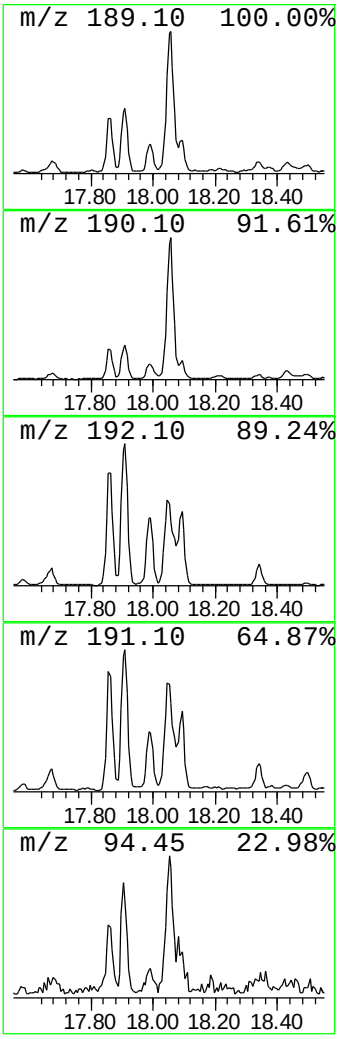
Peak Number 20 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.05 | 7.57 ng/ul | 2795600 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 60 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 3 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 46 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 46 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 46 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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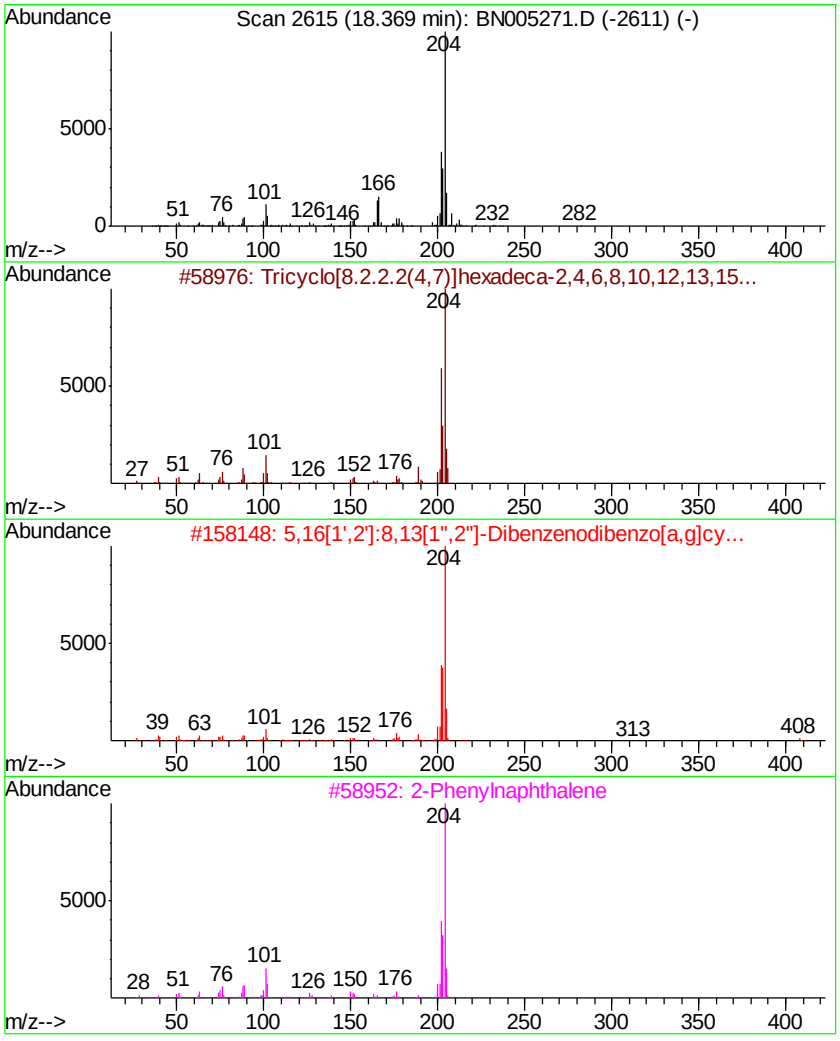
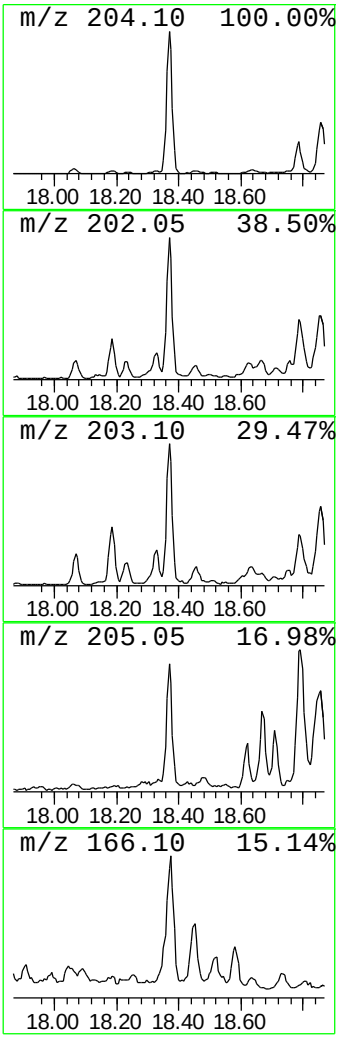
Peak Number 21 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.37 | 3.86 ng/ul | 1427540 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 83 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 72 |
| 3 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 64 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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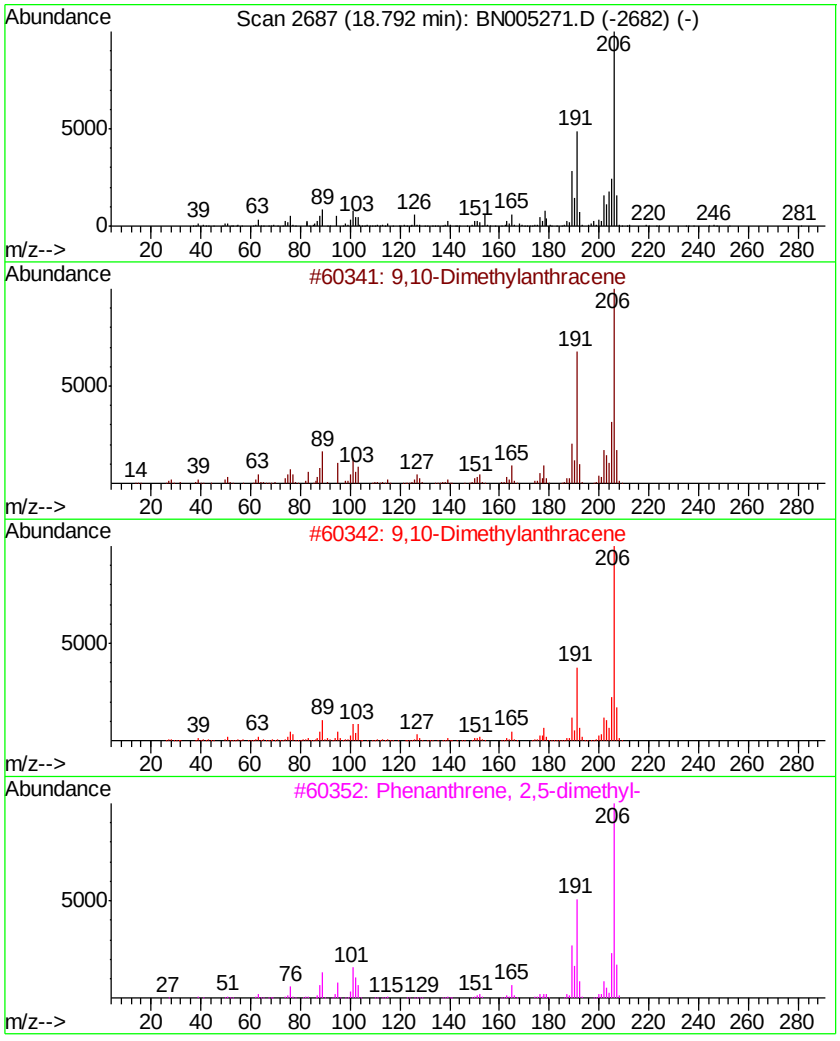
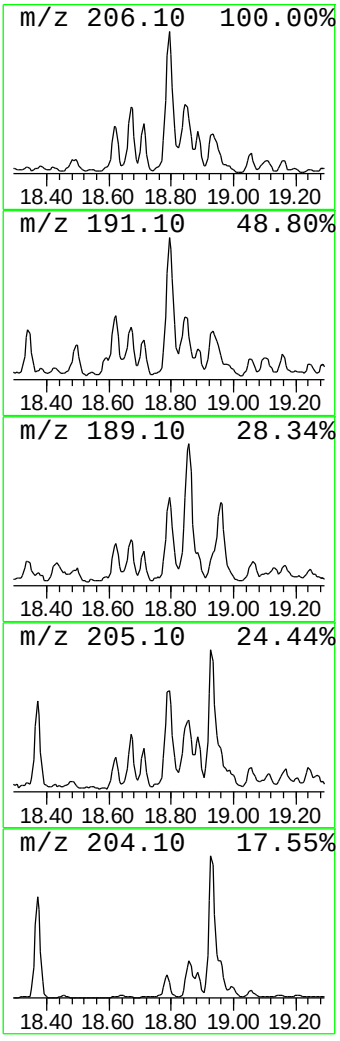
Peak Number 22 9,10-Dimethylanthracene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.79 | 5.24 ng/ul | 1934950 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 95 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 3 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 91 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 91 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

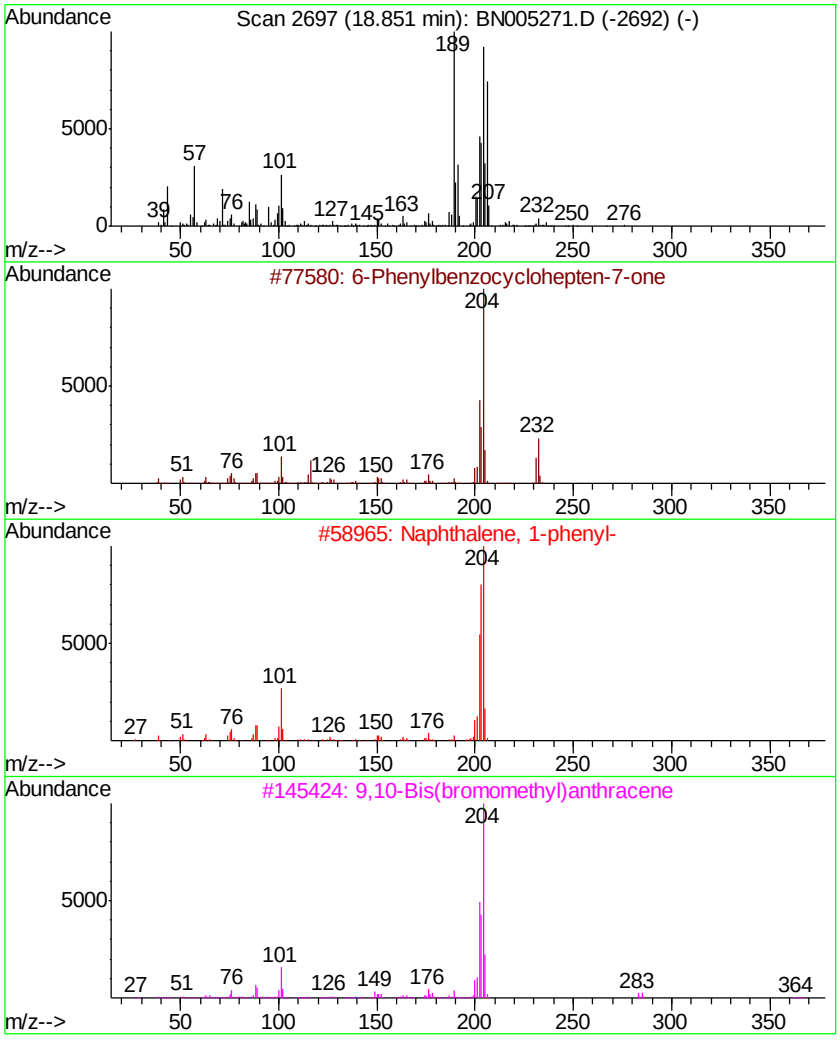
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

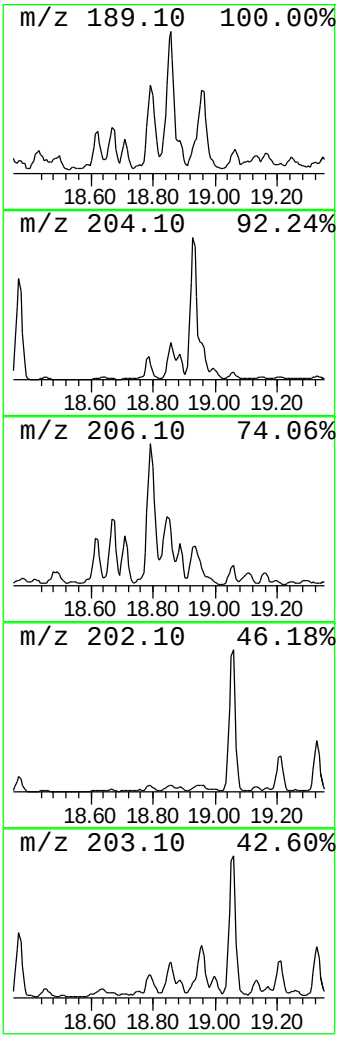
**********

Peak Number 23 unknown-04 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.85 | 4.93 ng/ul | 1820600 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 46 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 44 |
| 3 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 38 |
| 4 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 38 |
| 5 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

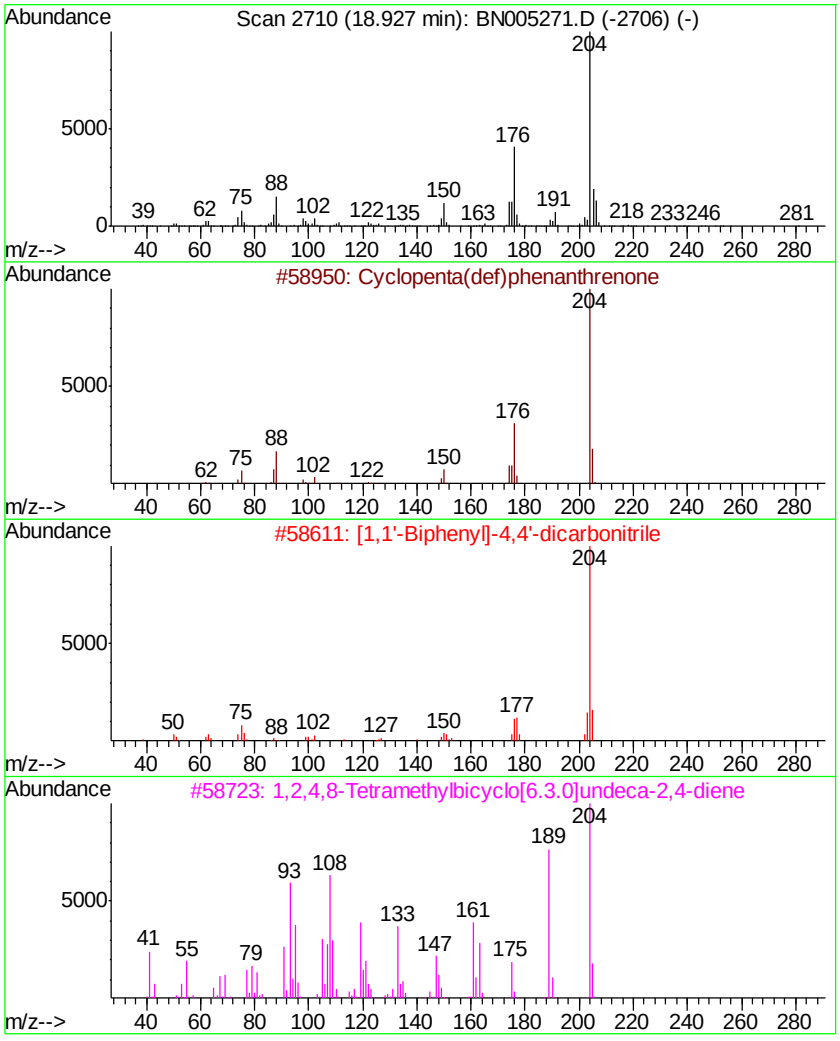
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

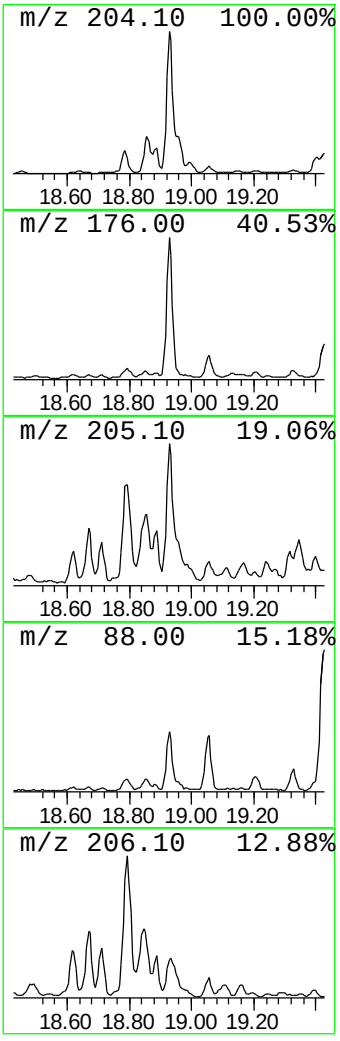
**********

Peak Number 24 Cyclopenta(def)phenanthrenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.93 | 9.35 ng/ul | 3455580 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 95 |
| 2 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 58 |
| 3 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 49 |
| 4 | 9-Acridinecarbonitrile | 204 | C14H8N2 | 005326-19-2 | 47 |
| 5 | Benzo[1,2-b:4,3-b']dithiophene, ... | 204 | C11H8S2 | 013640-86-3 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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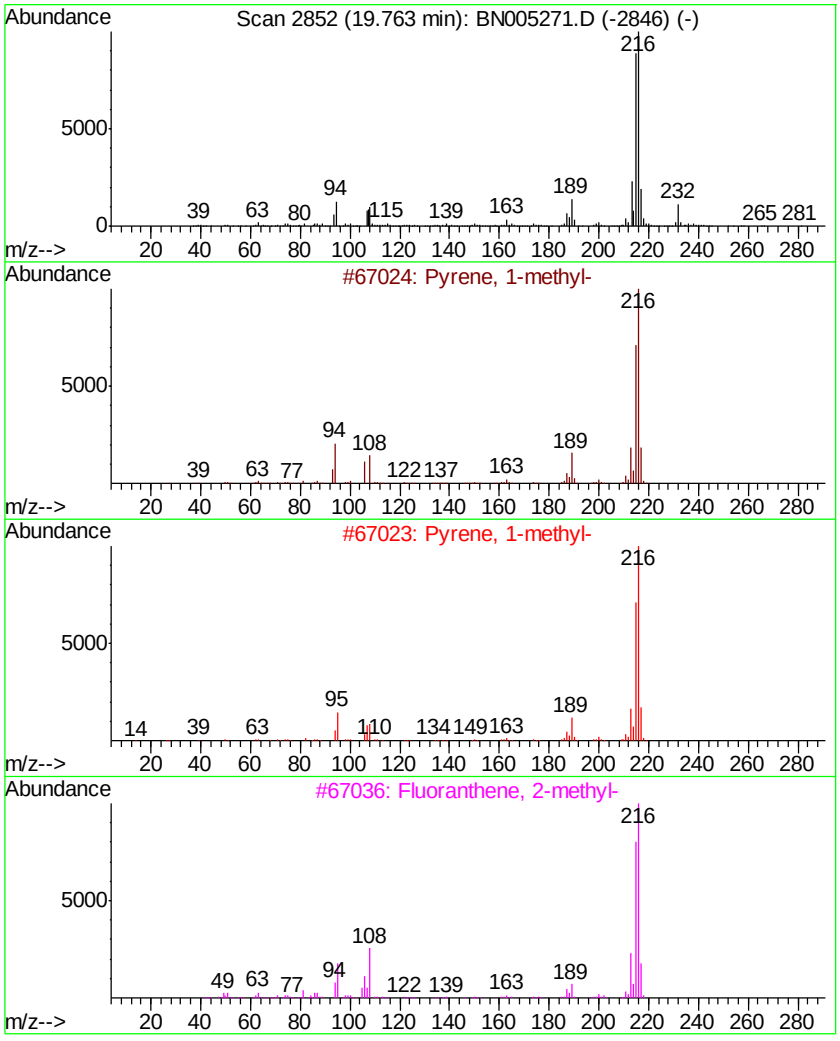
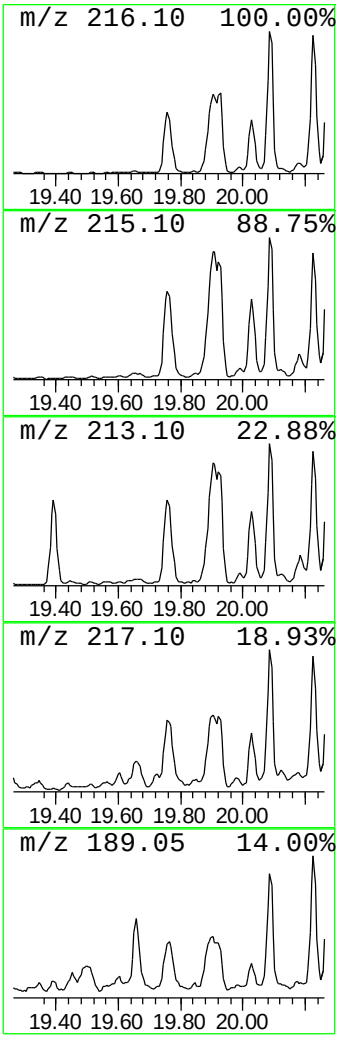
Peak Number 26 Pyrene, 1-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.76 | 4.01 ng/ul | 2534460 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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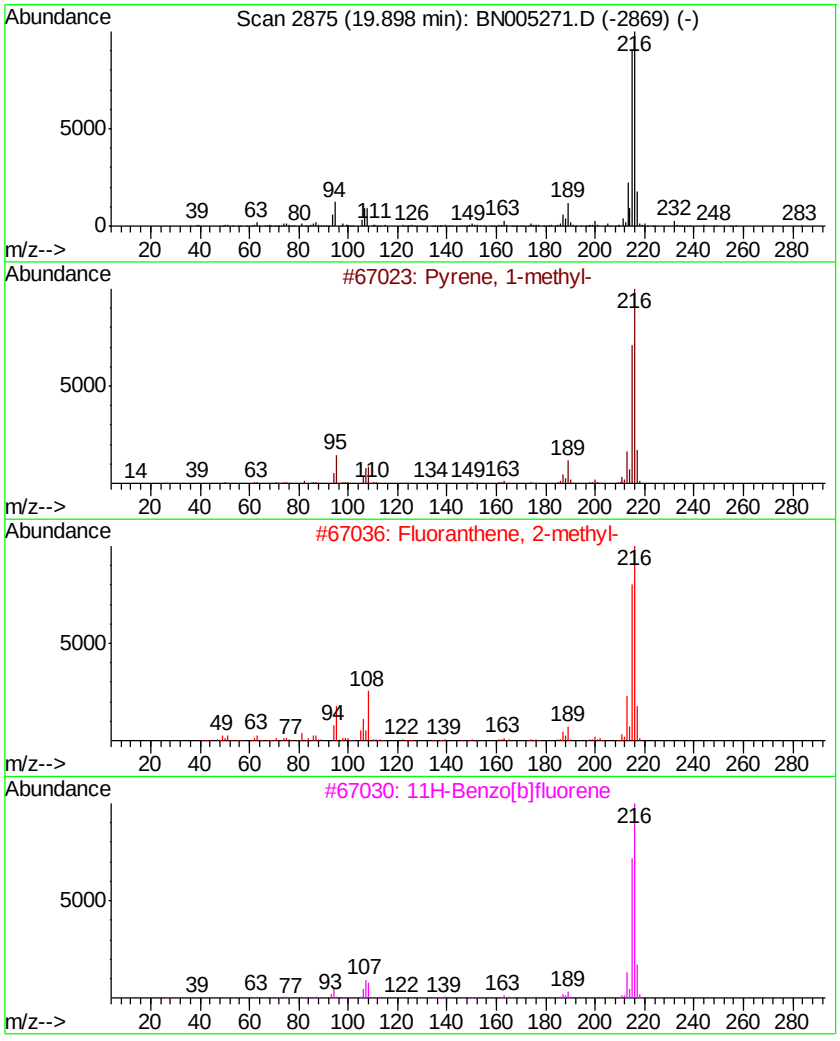
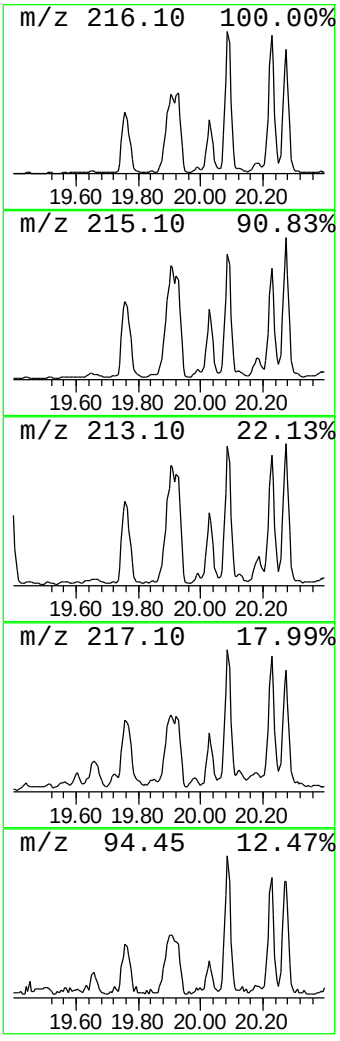
Peak Number 27 Fluoranthene, 2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.90 | 4.55 ng/ul | 2875430 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

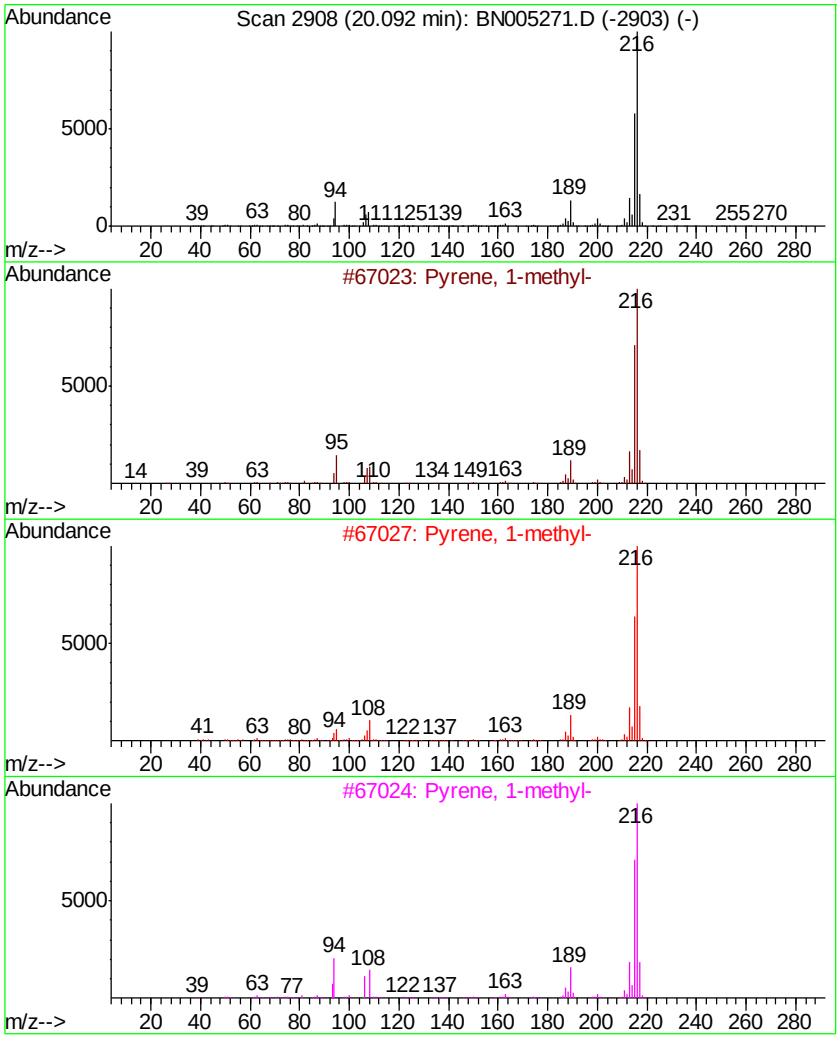
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

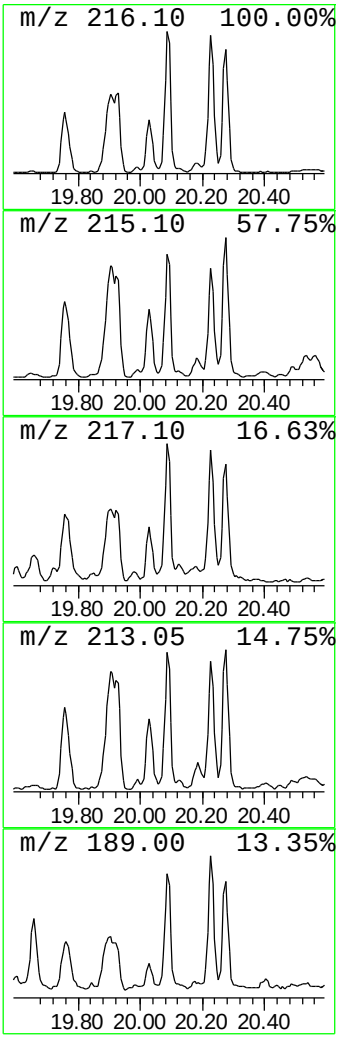
**********

Peak Number 28 Pyrene, 4-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.09 | 4.59 ng/ul | 2901270 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 95 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 95 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

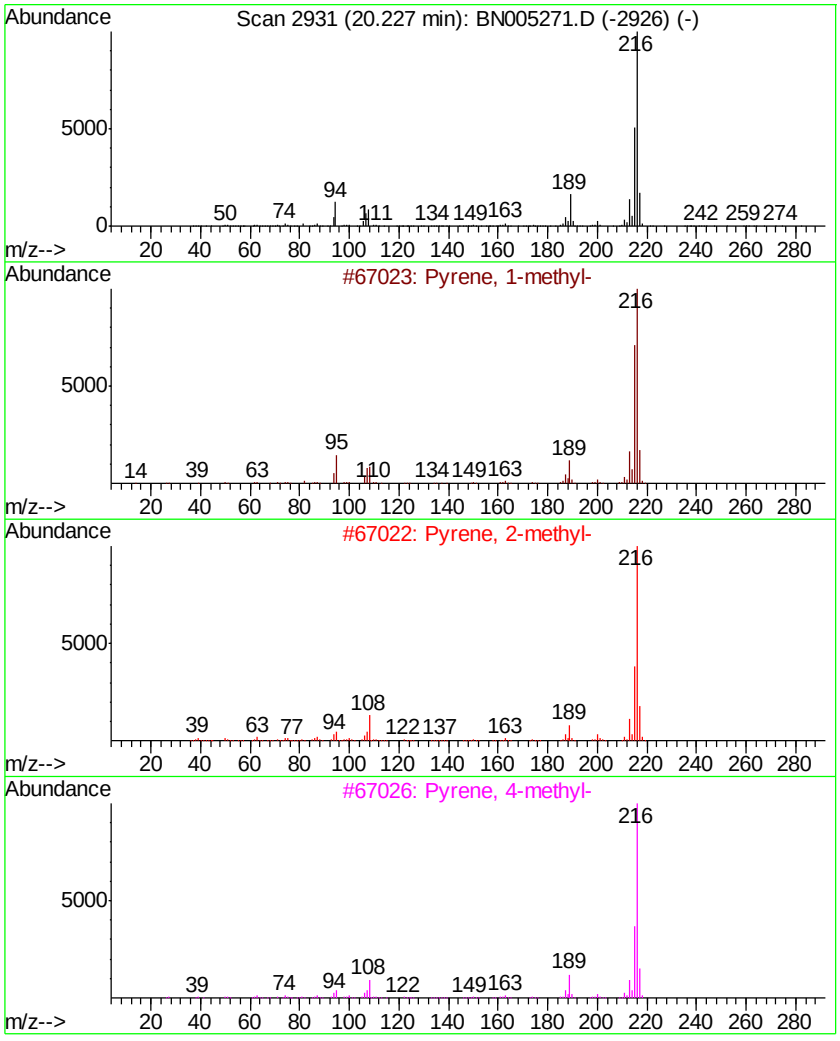
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

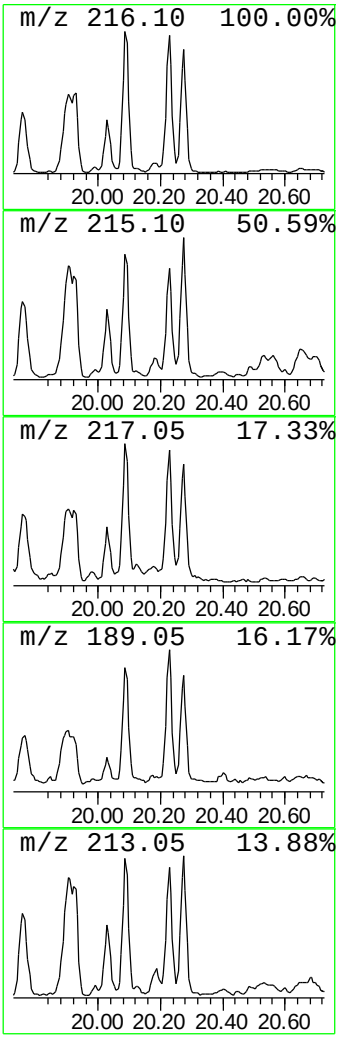
**********

Peak Number 29 Pyrene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.23 | 4.55 ng/ul | 2879370 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 98 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 97 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 94 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 94 |
| 5 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

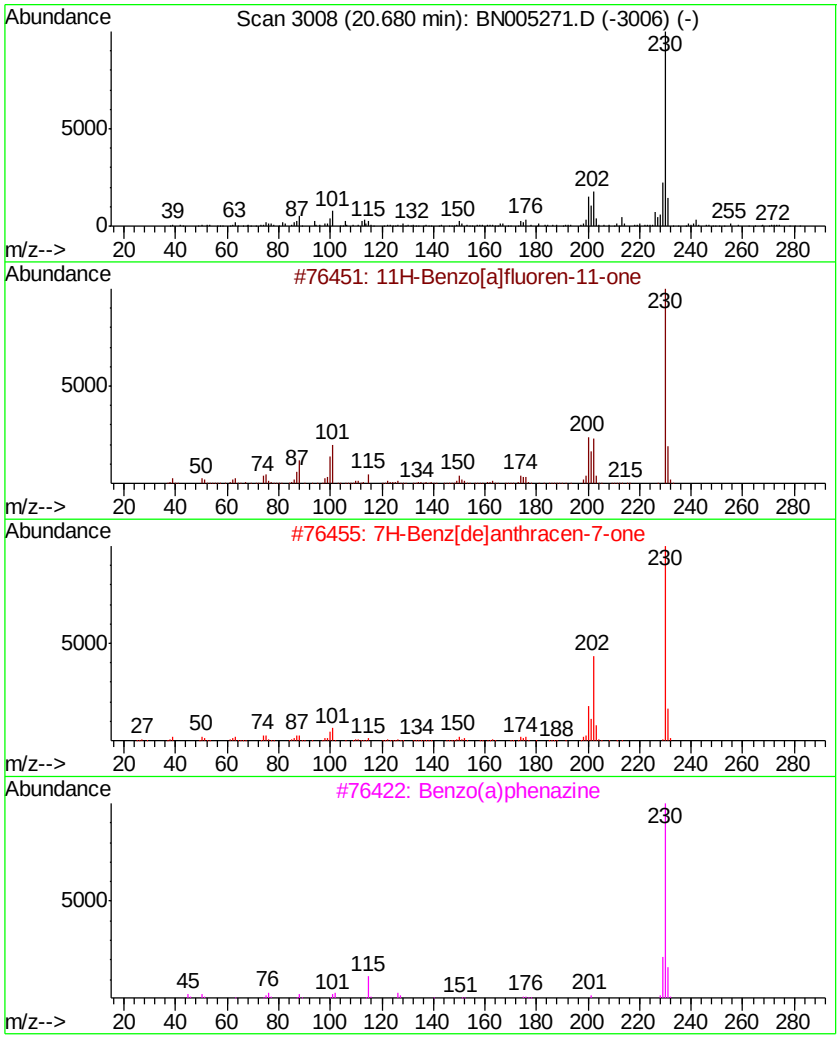
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

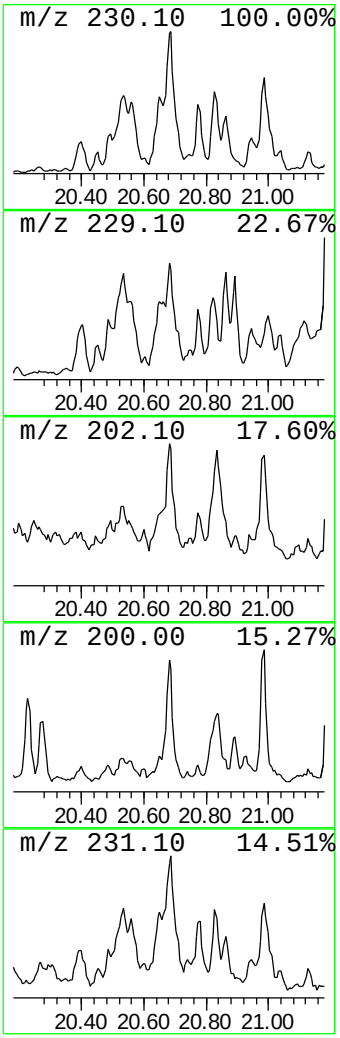
**********

Peak Number 31 11H-Benzo[a]fluoren-11-one Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.68 | 2.22 ng/ul | 1406430 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 94 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 86 |
| 3 | Benzo(a)phenazine | 230 | C16H10N2 | 000225-61-6 | 53 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 53 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

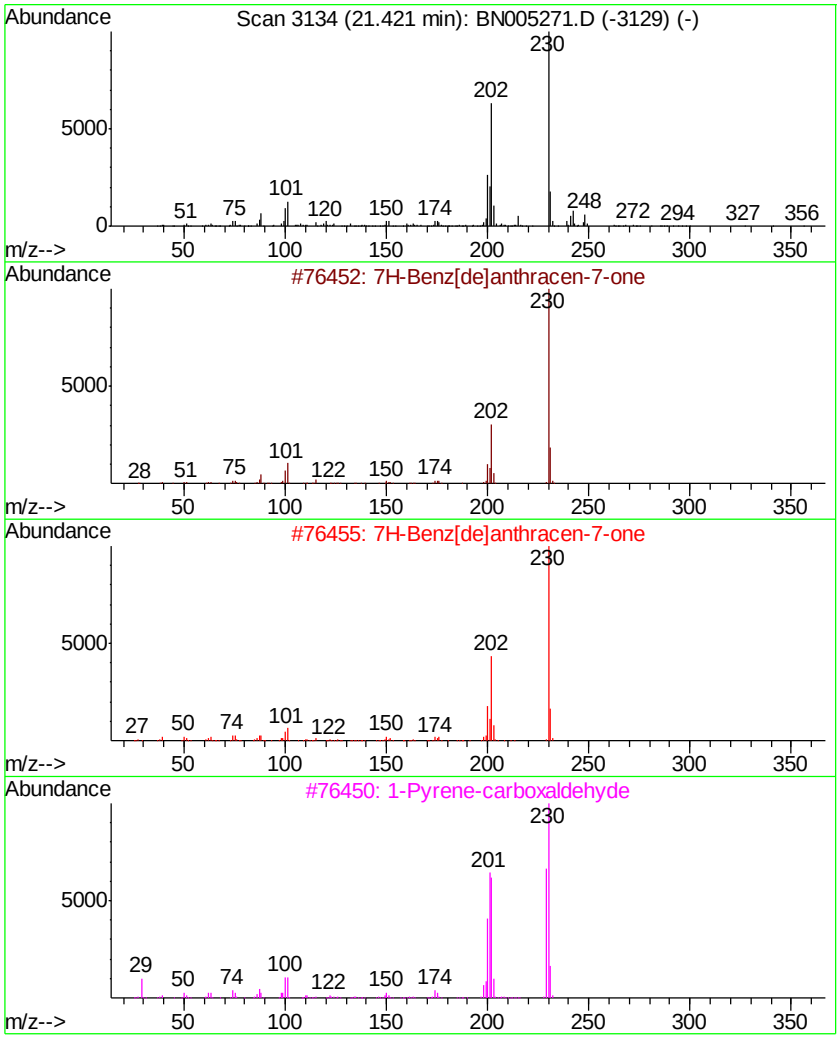
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

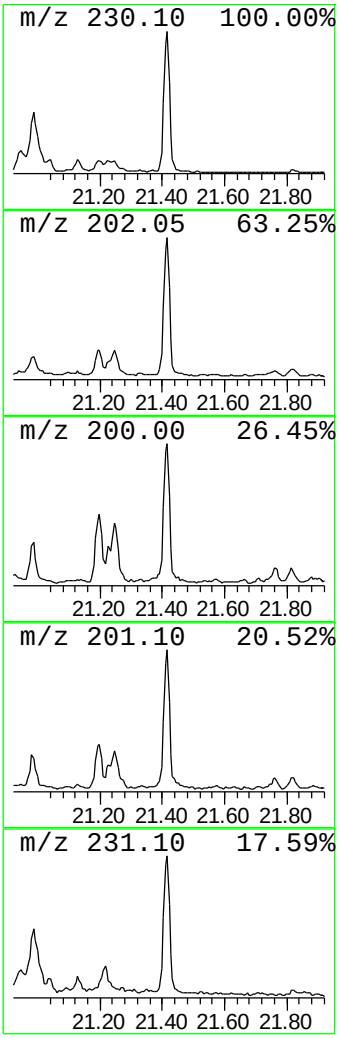
**********

Peak Number 32 7H-Benz[de]anthracen-7-one Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.42 | 3.16 ng/ul | 2000370 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 95 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 93 |
| 3 | 1-Pyrene-carboxaldehyde | 230 | C17H10O | 003029-19-4 | 90 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 78 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 70 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

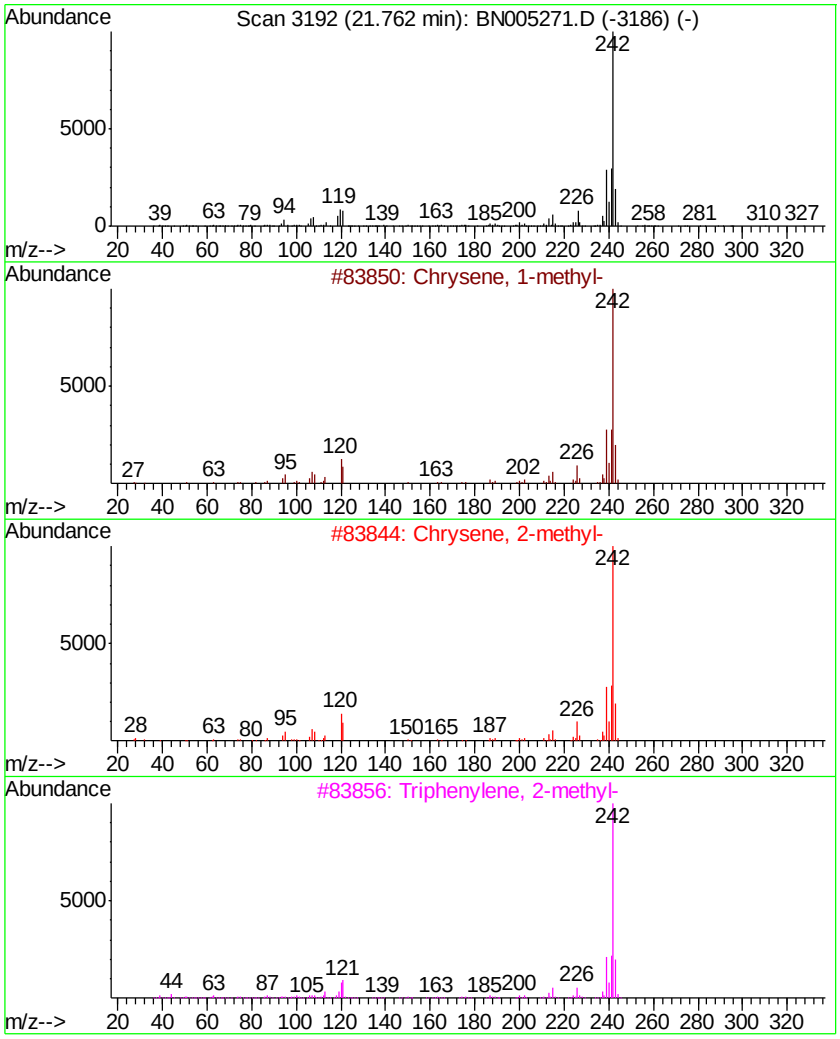
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

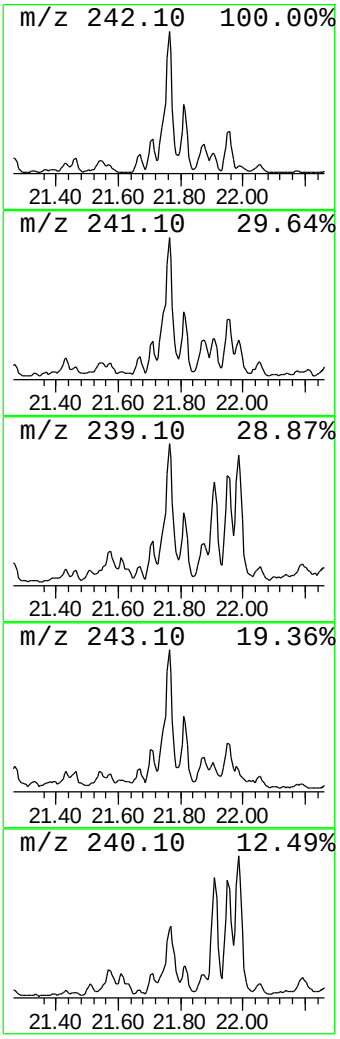
**********

Peak Number 33 Chrysene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.76 | 5.50 ng/ul | 3476310 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 98 |
| 2 | Chrysene, 2-methyl- | 242 | C19H14 | 003351-32-4 | 96 |
| 3 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 96 |
| 4 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 95 |
| 5 | Benz[a]anthracene, 12-methyl- | 242 | C19H14 | 002422-79-9 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

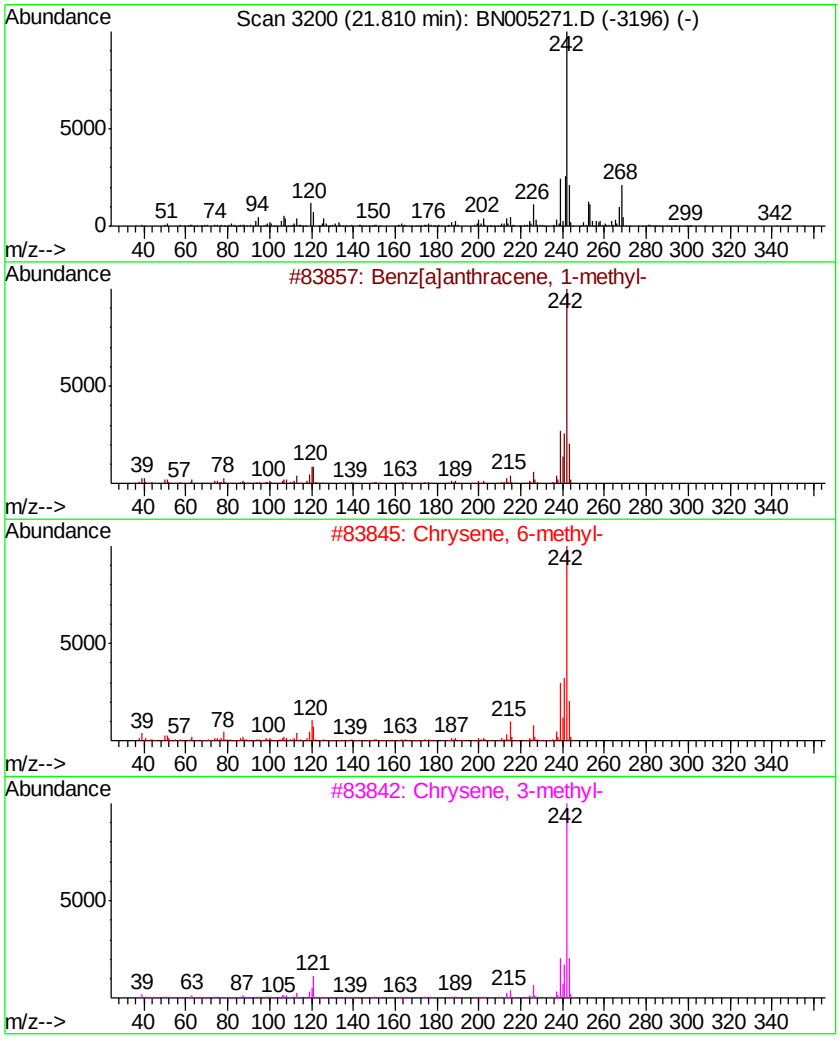
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

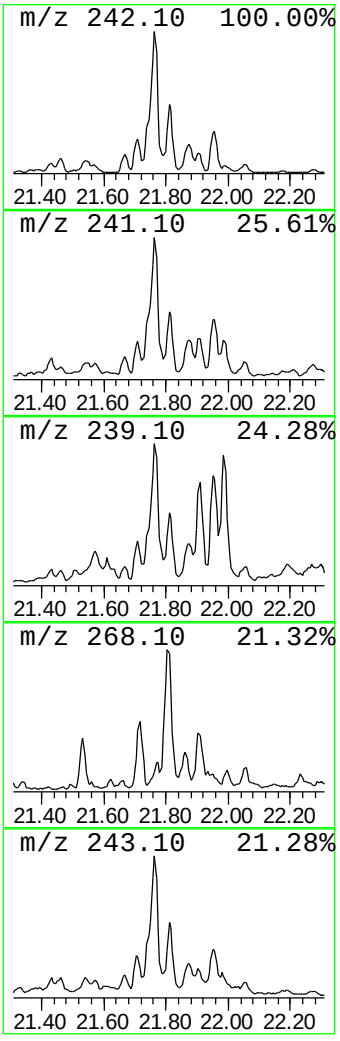
**********

Peak Number 34 Benz[a]anthracene, 1-methyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.81 | 3.60 ng/ul | 2277100 | Chrysene-d12 | 21.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[a]anthracene, 1-methyl- | 242 | C19H14 | 002498-77-3 | 83 |
| 2 | Chrysene, 6-methyl- | 242 | C19H14 | 003697-24-3 | 83 |
| 3 | Chrysene, 3-methyl- | 242 | C19H14 | 003351-31-3 | 78 |
| 4 | Benzo[c]phenanthrene, 5-methyl- | 242 | C19H14 | 000652-04-0 | 64 |
| 5 | Chrysene, 6-methyl- | 242 | C19H14 | 001705-85-7 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042419\
Data File : BN005271.D
Acq On : 25 Apr 2019 03:59
Operator : JU/SJ
Sample : K2455-01 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** GAHQ3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 11.40 | 2.5 | ng/ul | 780013 | 2 | 10.36 | 6230330 | 20.0 |
| (DEL) Alkane: Str... | 11.81 | 7.0 | ng/ul | 2172430 | 2 | 10.36 | 6230330 | 20.0 |
| Benzocycloheptatr... | 11.88 | 2.9 | ng/ul | 914449 | 2 | 10.36 | 6230330 | 20.0 |
| (DEL) Alkane: Str... | 12.78 | 2.2 | ng/ul | 774680 | 3 | 14.23 | 6908930 | 20.0 |
| (DEL) Alkane: Str... | 13.07 | 9.7 | ng/ul | 3360320 | 3 | 14.23 | 6908930 | 20.0 |
| Naphthalene, 2,3-... | 13.55 | 2.9 | ng/ul | 995811 | 3 | 14.23 | 6908930 | 20.0 |
| (DEL) Alkane: Str... | 14.16 | 7.6 | ng/ul | 2628020 | 3 | 14.23 | 6908930 | 20.0 |
| Naphthalene, 2-(1... | 14.84 | 3.1 | ng/ul | 1059120 | 3 | 14.23 | 6908930 | 20.0 |
| (DEL) Alkane: Str... | 15.12 | 6.4 | ng/ul | 2224640 | 3 | 14.23 | 6908930 | 20.0 |
| (DEL) Alkane: Str... | 15.52 | 3.3 | ng/ul | 1122000 | 3 | 14.23 | 6908930 | 20.0 |
| (DEL) Alkane: Str... | 15.98 | 4.7 | ng/ul | 1734660 | 4 | 16.98 | 7390750 | 20.0 |
| (DEL) Alkane: Str... | 16.77 | 2.9 | ng/ul | 1087340 | 4 | 16.98 | 7390750 | 20.0 |
| unknown-01 | 17.52 | 2.5 | ng/ul | 910234 | 4 | 16.98 | 7390750 | 20.0 |
| unknown-02 | 17.68 | 5.5 | ng/ul | 2049030 | 4 | 16.98 | 7390750 | 20.0 |
| unknown-03 | 17.80 | 2.2 | ng/ul | 823275 | 4 | 16.98 | 7390750 | 20.0 |
| Phenanthrene, 2-m... | 17.86 | 3.7 | ng/ul | 1374010 | 4 | 16.98 | 7390750 | 20.0 |
| Phenanthrene, 1-m... | 17.90 | 5.7 | ng/ul | 2117180 | 4 | 16.98 | 7390750 | 20.0 |
| 1H-Cyclopropa[l]p... | 17.99 | 2.0 | ng/ul | 748329 | 4 | 16.98 | 7390750 | 20.0 |
| 4H-Cyclopenta[def... | 18.05 | 7.6 | ng/ul | 2795600 | 4 | 16.98 | 7390750 | 20.0 |
| Tricyclo[8.2.2.2(... | 18.37 | 3.9 | ng/ul | 1427540 | 4 | 16.98 | 7390750 | 20.0 |
| 9,10-Dimethylanth... | 18.79 | 5.2 | ng/ul | 1934950 | 4 | 16.98 | 7390750 | 20.0 |
| unknown-04 | 18.85 | 4.9 | ng/ul | 1820600 | 4 | 16.98 | 7390750 | 20.0 |
| Cyclopenta(def)ph... | 18.93 | 9.3 | ng/ul | 3455580 | 4 | 16.98 | 7390750 | 20.0 |
| Pyrene, 1-methyl- | 19.76 | 4.0 | ng/ul | 2534460 | 5 | 21.21 | 12648200 | 20.0 |
| Fluoranthene, 2-m... | 19.90 | 4.5 | ng/ul | 2875430 | 5 | 21.21 | 12648200 | 20.0 |
| Pyrene, 4-methyl- | 20.09 | 4.6 | ng/ul | 2901270 | 5 | 21.21 | 12648200 | 20.0 |
| Pyrene, 2-methyl- | 20.23 | 4.5 | ng/ul | 2879370 | 5 | 21.21 | 12648200 | 20.0 |
| 11H-Benzo[a]fluor... | 20.68 | 2.2 | ng/ul | 1406430 | 5 | 21.21 | 12648200 | 20.0 |
| 7H-Benz[de]anthra... | 21.42 | 3.2 | ng/ul | 2000370 | 5 | 21.21 | 12648200 | 20.0 |
| Chrysene, 1-methyl- | 21.76 | 5.5 | ng/ul | 3476310 | 5 | 21.21 | 12648200 | 20.0 |
| Benz[a]anthracene... | 21.81 | 3.6 | ng/ul | 2277100 | 5 | 21.21 | 12648200 | 20.0 |