LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.475 | 572 | 576 | 584 | rBB | 202771 | 173247 | 2.05% | 0.218% |
| 2 | 6.487 | 744 | 748 | 753 | rBV2 | 163116 | 175251 | 2.08% | 0.221% |
| 3 | 6.634 | 769 | 773 | 776 | rBV | 166906 | 146153 | 1.73% | 0.184% |
| 4 | 6.869 | 809 | 813 | 816 | rBV | 564694 | 462799 | 5.48% | 0.583% |
| 5 | 7.022 | 836 | 839 | 842 | rBV | 148888 | 111242 | 1.32% | 0.140% |
| 6 | 7.416 | 903 | 906 | 913 | rVB | 116512 | 93073 | 1.10% | 0.117% |
| 7 | 8.151 | 1027 | 1031 | 1032 | rBV | 946155 | 849077 | 10.06% | 1.070% |
| 8 | 8.175 | 1032 | 1035 | 1038 | rVV | 4605237 | 4488717 | 53.19% | 5.656% |
| 9 | 8.222 | 1038 | 1043 | 1046 | rVB | 175991 | 138030 | 1.64% | 0.174% |
| 10 | 8.498 | 1086 | 1090 | 1093 | rBV | 230848 | 195599 | 2.32% | 0.246% |
| 11 | 8.781 | 1135 | 1138 | 1141 | rBV | 123747 | 103227 | 1.22% | 0.130% |
| 12 | 8.863 | 1148 | 1152 | 1155 | rBV | 1253153 | 1059568 | 12.56% | 1.335% |
| 13 | 8.957 | 1165 | 1168 | 1172 | rVB | 675535 | 527179 | 6.25% | 0.664% |
| 14 | 9.216 | 1210 | 1212 | 1216 | rVB | 273198 | 230260 | 2.73% | 0.290% |
| 15 | 9.322 | 1226 | 1230 | 1233 | rBV | 524947 | 411237 | 4.87% | 0.518% |
| 16 | 9.416 | 1243 | 1246 | 1251 | rVB | 207872 | 184386 | 2.18% | 0.232% |
| 17 | 9.486 | 1251 | 1258 | 1262 | rBV | 180044 | 238231 | 2.82% | 0.300% |
| 18 | 9.557 | 1265 | 1270 | 1273 | rBV | 248512 | 245535 | 2.91% | 0.309% |
| 19 | 9.586 | 1273 | 1275 | 1277 | rVB | 161523 | 115142 | 1.36% | 0.145% |
| 20 | 9.675 | 1288 | 1290 | 1298 | rVB | 117708 | 113902 | 1.35% | 0.144% |
| 21 | 9.757 | 1298 | 1304 | 1310 | rVB2 | 84949 | 92397 | 1.09% | 0.116% |
| 22 | 9.898 | 1322 | 1328 | 1331 | rBV2 | 1043451 | 1105086 | 13.10% | 1.392% |
| 23 | 9.939 | 1331 | 1335 | 1337 | rVV | 3400088 | 3002014 | 35.57% | 3.782% |
| 24 | 9.963 | 1337 | 1339 | 1341 | rVB | 215034 | 156492 | 1.85% | 0.197% |
| 25 | 10.104 | 1359 | 1363 | 1367 | rBV | 2354681 | 2200905 | 26.08% | 2.773% |
| 26 | 10.451 | 1417 | 1422 | 1425 | rBV | 2106992 | 1818818 | 21.55% | 2.292% |
| 27 | 10.533 | 1434 | 1436 | 1439 | rVB2 | 196235 | 141937 | 1.68% | 0.179% |
| 28 | 10.604 | 1446 | 1448 | 1451 | rVB | 246880 | 182939 | 2.17% | 0.230% |
| 29 | 10.680 | 1457 | 1461 | 1465 | rBV | 307890 | 346877 | 4.11% | 0.437% |
| 30 | 10.992 | 1507 | 1514 | 1517 | rBV2 | 199372 | 215681 | 2.56% | 0.272% |
| 31 | 11.280 | 1558 | 1563 | 1569 | rVB | 600323 | 522985 | 6.20% | 0.659% |
| 32 | 11.433 | 1577 | 1589 | 1591 | rBV | 5966706 | 8438809 | 100.00% | 10.632% |
| 33 | 11.474 | 1591 | 1596 | 1598 | rVV | 3004457 | 2741068 | 32.48% | 3.454% |
| 34 | 11.492 | 1598 | 1599 | 1603 | rVB | 341979 | 236161 | 2.80% | 0.298% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.616 | 1613 | 1620 | 1622 | rBV | 1424982 | 1386913 | 16.43% | 1.747% |
| 36 | 11.674 | 1626 | 1630 | 1633 | rVV3 | 137987 | 167766 | 1.99% | 0.211% |
| 37 | 11.751 | 1640 | 1643 | 1648 | rVB | 113960 | 114996 | 1.36% | 0.145% |
| 38 | 11.886 | 1660 | 1666 | 1668 | rBV | 498374 | 473770 | 5.61% | 0.597% |
| 39 | 11.916 | 1668 | 1671 | 1675 | rVV | 704757 | 636124 | 7.54% | 0.801% |
| 40 | 11.963 | 1675 | 1679 | 1682 | rVV | 300526 | 284950 | 3.38% | 0.359% |
| 41 | 12.004 | 1682 | 1686 | 1692 | rVV2 | 1252970 | 1383936 | 16.40% | 1.744% |
| 42 | 12.174 | 1712 | 1715 | 1718 | rVB | 414652 | 353442 | 4.19% | 0.445% |
| 43 | 12.433 | 1753 | 1759 | 1762 | rBV2 | 120415 | 153687 | 1.82% | 0.194% |
| 44 | 12.474 | 1762 | 1766 | 1771 | rVV2 | 98478 | 143303 | 1.70% | 0.181% |
| 45 | 12.616 | 1782 | 1790 | 1793 | rBV | 4551242 | 6702854 | 79.43% | 8.445% |
| 46 | 12.657 | 1793 | 1797 | 1800 | rVB2 | 140054 | 143327 | 1.70% | 0.181% |
| 47 | 12.745 | 1805 | 1812 | 1815 | rBV2 | 221829 | 311034 | 3.69% | 0.392% |
| 48 | 12.845 | 1821 | 1829 | 1832 | rBV3 | 3887974 | 6549008 | 77.61% | 8.251% |
| 49 | 12.874 | 1832 | 1834 | 1841 | rVB2 | 240049 | 243232 | 2.88% | 0.306% |
| 50 | 12.945 | 1841 | 1846 | 1850 | rBV2 | 340121 | 427170 | 5.06% | 0.538% |
| 51 | 12.980 | 1850 | 1852 | 1855 | rVB | 446419 | 352240 | 4.17% | 0.444% |
| 52 | 13.045 | 1855 | 1863 | 1865 | rBV3 | 232597 | 453113 | 5.37% | 0.571% |
| 53 | 13.068 | 1865 | 1867 | 1870 | rVB | 290650 | 222215 | 2.63% | 0.280% |
| 54 | 13.110 | 1870 | 1874 | 1875 | rBV3 | 116219 | 125123 | 1.48% | 0.158% |
| 55 | 13.127 | 1875 | 1877 | 1878 | rVV | 184605 | 159797 | 1.89% | 0.201% |
| 56 | 13.157 | 1878 | 1882 | 1884 | rVB | 913016 | 896883 | 10.63% | 1.130% |
| 57 | 13.221 | 1889 | 1893 | 1895 | rBV | 1156002 | 982121 | 11.64% | 1.237% |
| 58 | 13.257 | 1895 | 1899 | 1902 | rVV3 | 372994 | 428649 | 5.08% | 0.540% |
| 59 | 13.316 | 1906 | 1909 | 1912 | rBV2 | 216152 | 232702 | 2.76% | 0.293% |
| 60 | 13.345 | 1912 | 1914 | 1917 | rVB | 131928 | 111524 | 1.32% | 0.141% |
| 61 | 13.374 | 1917 | 1919 | 1923 | rBV2 | 151869 | 173078 | 2.05% | 0.218% |
| 62 | 13.627 | 1959 | 1962 | 1966 | rBV | 134516 | 178560 | 2.12% | 0.225% |
| 63 | 13.768 | 1980 | 1986 | 1988 | rBV | 460041 | 443705 | 5.26% | 0.559% |
| 64 | 13.798 | 1988 | 1991 | 1993 | rVV | 432562 | 430086 | 5.10% | 0.542% |
| 65 | 13.821 | 1993 | 1995 | 2004 | rVV3 | 436564 | 660073 | 7.82% | 0.832% |
| 66 | 13.933 | 2008 | 2014 | 2020 | rBV | 151184 | 241150 | 2.86% | 0.304% |
| 67 | 14.021 | 2020 | 2029 | 2032 | rVV2 | 2713148 | 4150767 | 49.19% | 5.230% |
| 68 | 14.057 | 2032 | 2035 | 2039 | rVV | 2307812 | 2531937 | 30.00% | 3.190% |
| 69 | 14.133 | 2041 | 2048 | 2051 | rVV | 998276 | 1003602 | 11.89% | 1.264% |
| 70 | 14.157 | 2051 | 2052 | 2057 | rVV3 | 153943 | 244293 | 2.89% | 0.308% |
| 71 | 14.204 | 2057 | 2060 | 2063 | rVV | 412789 | 454053 | 5.38% | 0.572% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.239 | 2063 | 2066 | 2070 | rVV2 | 478719 | 538196 | 6.38% | 0.678% |
| 73 | 14.339 | 2079 | 2083 | 2086 | rVV3 | 151748 | 247664 | 2.93% | 0.312% |
| 74 | 14.368 | 2086 | 2088 | 2090 | rVV | 166288 | 182744 | 2.17% | 0.230% |
| 75 | 14.404 | 2090 | 2094 | 2096 | rVV | 421662 | 501766 | 5.95% | 0.632% |
| 76 | 14.433 | 2096 | 2099 | 2103 | rVV2 | 213941 | 276382 | 3.28% | 0.348% |
| 77 | 14.498 | 2104 | 2110 | 2113 | rVV2 | 330243 | 531404 | 6.30% | 0.670% |
| 78 | 14.527 | 2113 | 2115 | 2117 | rVV | 305294 | 323204 | 3.83% | 0.407% |
| 79 | 14.551 | 2117 | 2119 | 2122 | rVV | 514976 | 472169 | 5.60% | 0.595% |
| 80 | 14.586 | 2122 | 2125 | 2133 | rVB4 | 220571 | 331826 | 3.93% | 0.418% |
| 81 | 14.715 | 2144 | 2147 | 2149 | rBV2 | 82330 | 103654 | 1.23% | 0.131% |
| 82 | 14.733 | 2149 | 2150 | 2156 | rVB3 | 114927 | 114804 | 1.36% | 0.145% |
| 83 | 14.898 | 2174 | 2178 | 2184 | rVB | 122873 | 176062 | 2.09% | 0.222% |
| 84 | 15.074 | 2200 | 2208 | 2210 | rBV | 1445952 | 2713134 | 32.15% | 3.418% |
| 85 | 15.168 | 2220 | 2224 | 2227 | rVB | 418895 | 427574 | 5.07% | 0.539% |
| 86 | 15.251 | 2234 | 2238 | 2240 | rBV4 | 83935 | 116292 | 1.38% | 0.147% |
| 87 | 15.368 | 2252 | 2258 | 2263 | rVB | 813112 | 1249097 | 14.80% | 1.574% |
| 88 | 15.439 | 2263 | 2270 | 2273 | rVV | 1384966 | 1848205 | 21.90% | 2.329% |
| 89 | 15.486 | 2273 | 2278 | 2280 | rVV2 | 217038 | 321271 | 3.81% | 0.405% |
| 90 | 15.521 | 2280 | 2284 | 2290 | rVB | 465555 | 625480 | 7.41% | 0.788% |
| 91 | 15.845 | 2335 | 2339 | 2344 | rVB2 | 98489 | 165022 | 1.96% | 0.208% |
| 92 | 16.039 | 2368 | 2372 | 2381 | rVB | 109338 | 181139 | 2.15% | 0.228% |
| 93 | 16.186 | 2392 | 2397 | 2401 | rBV2 | 62222 | 95308 | 1.13% | 0.120% |
| 94 | 16.751 | 2488 | 2493 | 2496 | rBV2 | 64700 | 126553 | 1.50% | 0.159% |
| 95 | 16.956 | 2520 | 2528 | 2534 | rVB2 | 462841 | 940445 | 11.14% | 1.185% |
| 96 | 17.015 | 2535 | 2538 | 2547 | rVB2 | 47719 | 90756 | 1.08% | 0.114% |
| 97 | 17.115 | 2549 | 2555 | 2560 | rBV | 88842 | 171295 | 2.03% | 0.216% |
| 98 | 17.174 | 2561 | 2565 | 2570 | rBV2 | 59593 | 101434 | 1.20% | 0.128% |
| 99 | 17.398 | 2594 | 2603 | 2611 | rBV | 347495 | 791850 | 9.38% | 0.998% |
| 100 | 17.621 | 2635 | 2641 | 2653 | rVB | 154234 | 388451 | 4.60% | 0.489% |

Sum of corrected areas: 79368388

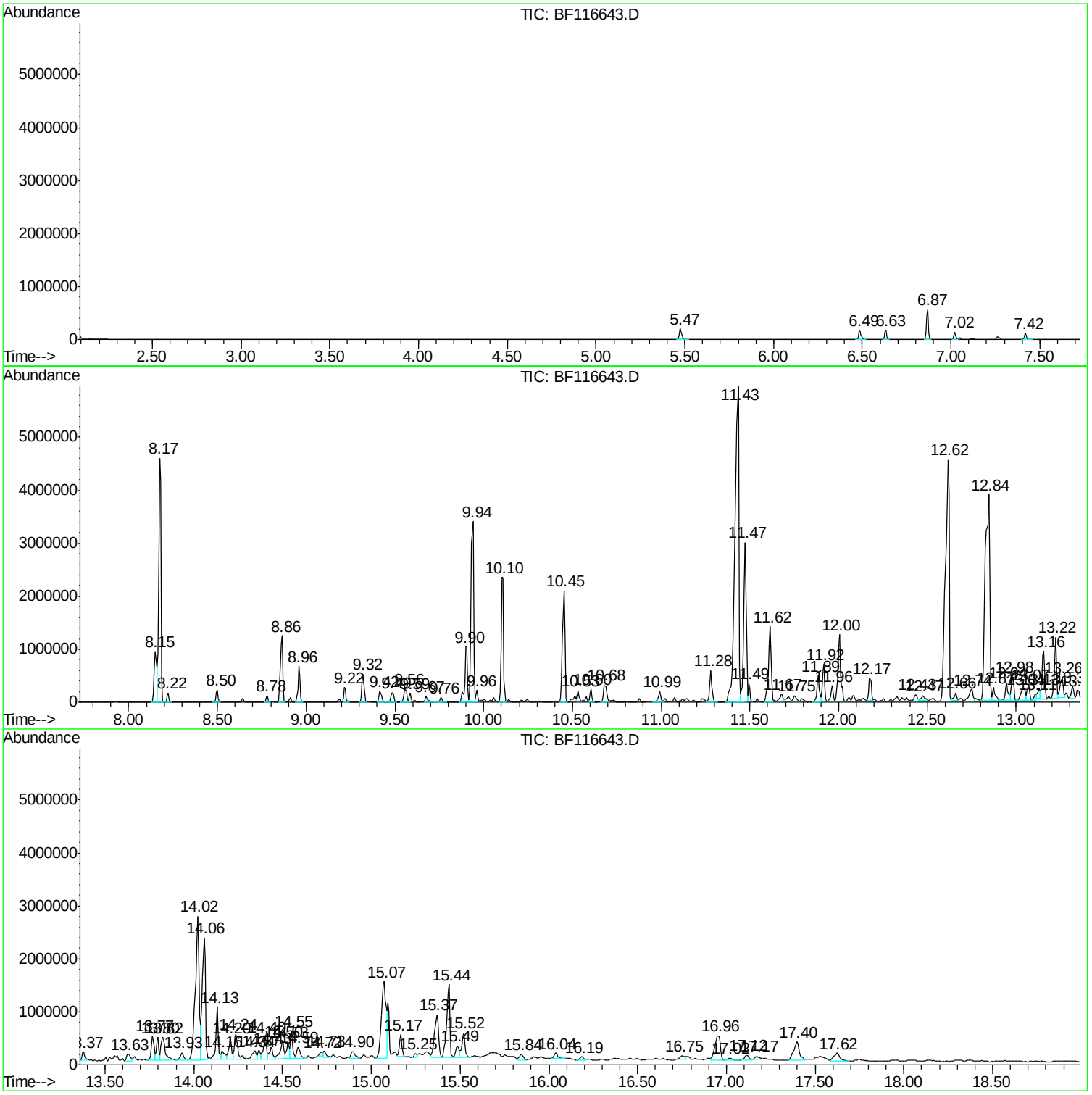
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

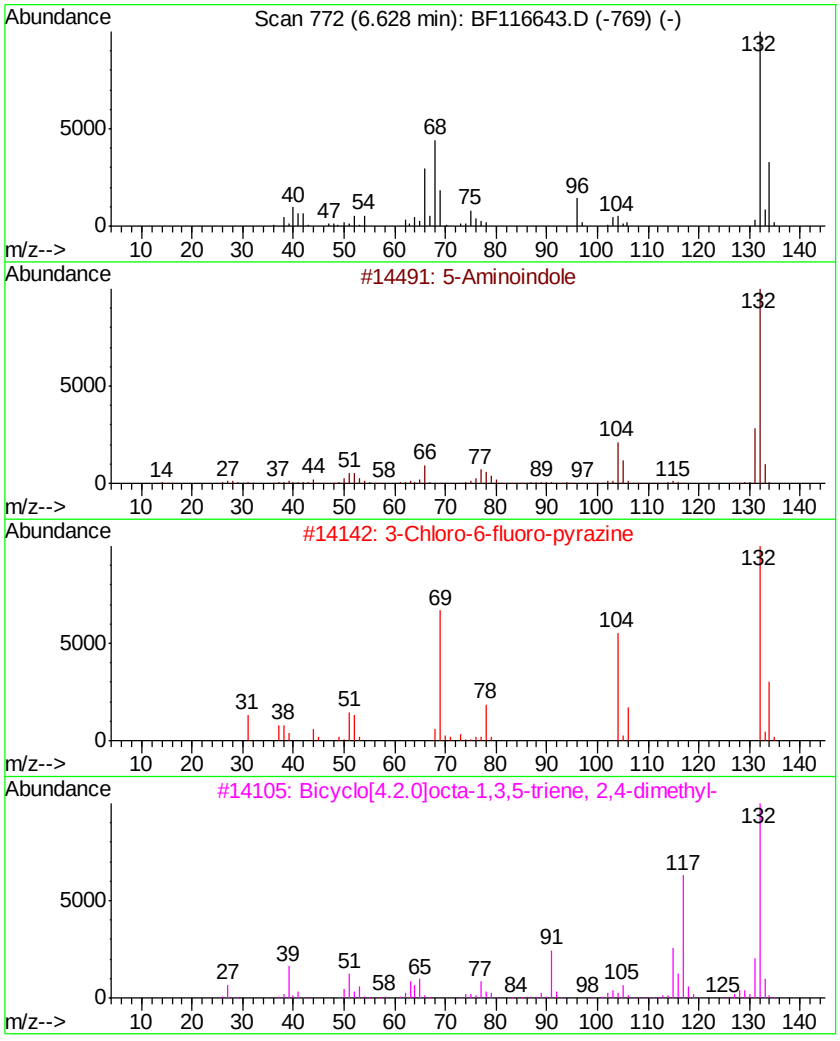
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

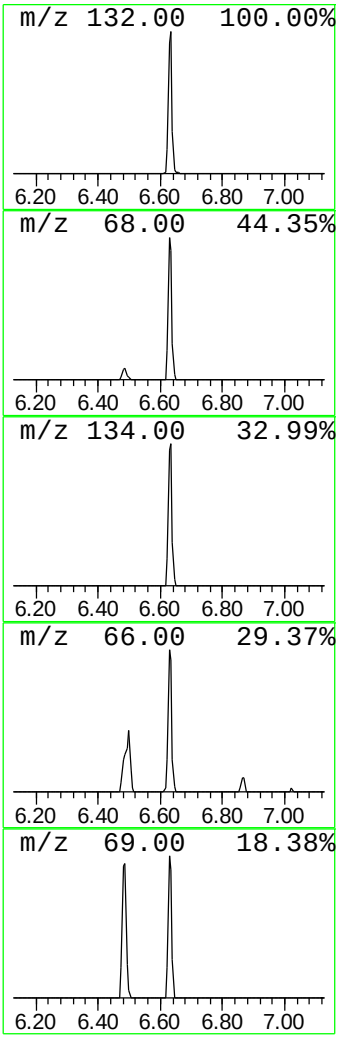
**********

Peak Number 1 unknown6.63 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.63 | 6.32 ng | 146153 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 27 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

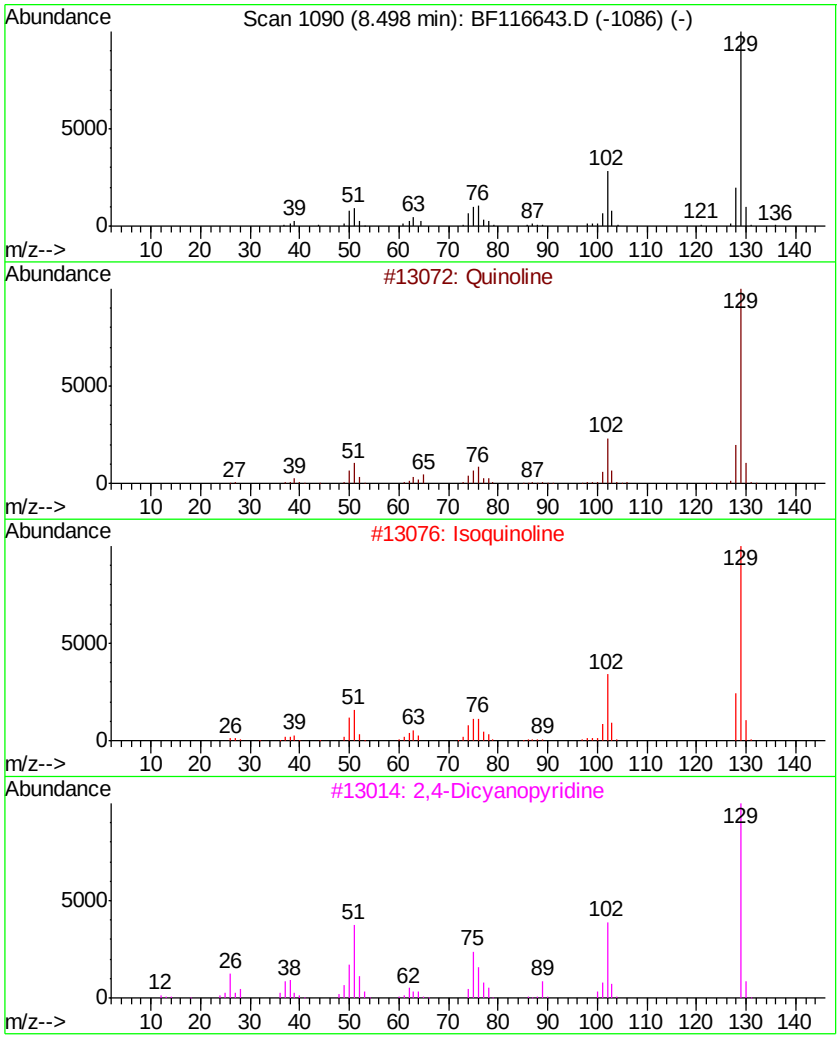
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

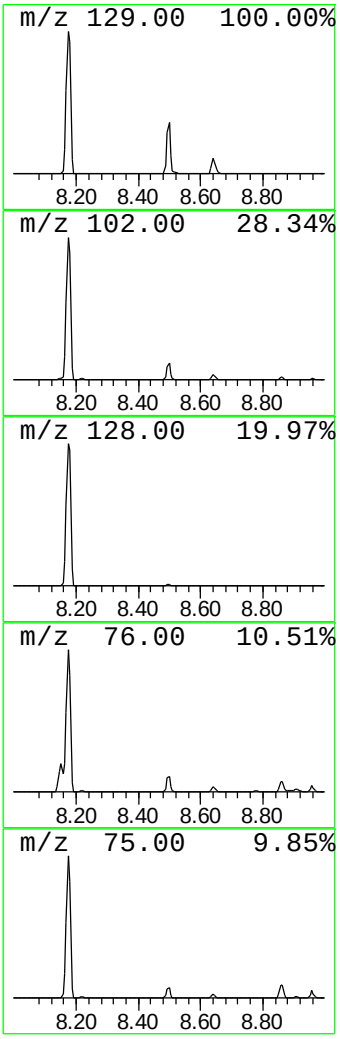
**********

Peak Number 3 Quinoline Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.50 | 4.61 ng | 195599 | Naphthalene-d8 | 8.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Quinoline | 129 | C9H7N | 000091-22-5 | 97 |
| 2 | Isoquinoline | 129 | C9H7N | 000119-65-3 | 95 |
| 3 | 2,4-Dicyanopyridine | 129 | C7H3N3 | 029181-50-8 | 83 |
| 4 | Pyridine-3,4-dicarbonitrile | 129 | C7H3N3 | 001633-44-9 | 80 |
| 5 | 2-Propenenitrile, 3-phenyl-, (E)- | 129 | C9H7N | 001885-38-7 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

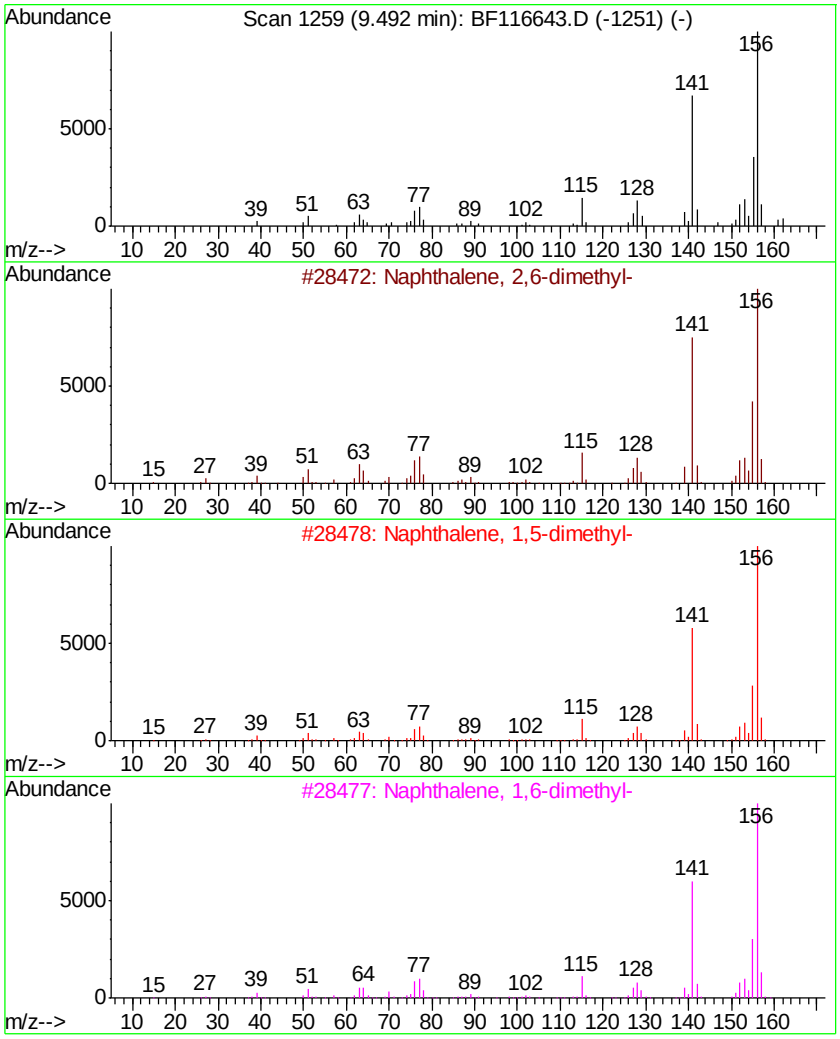
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

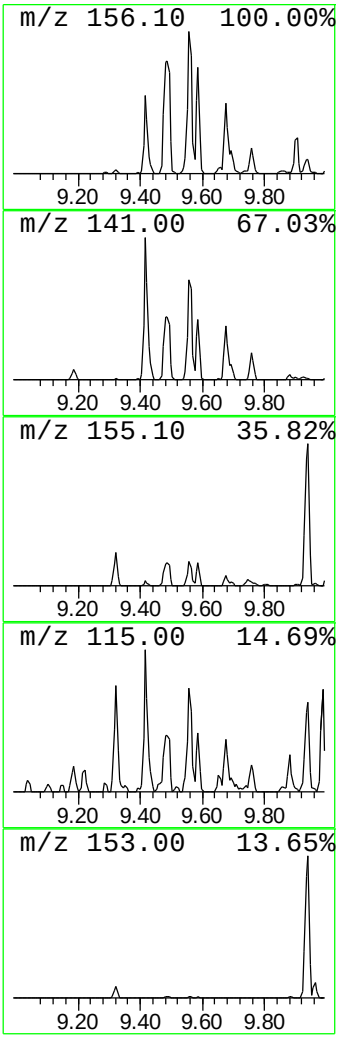
**********

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.49 | 4.31 ng | 238231 | Acenaphthene-d10 | 9.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

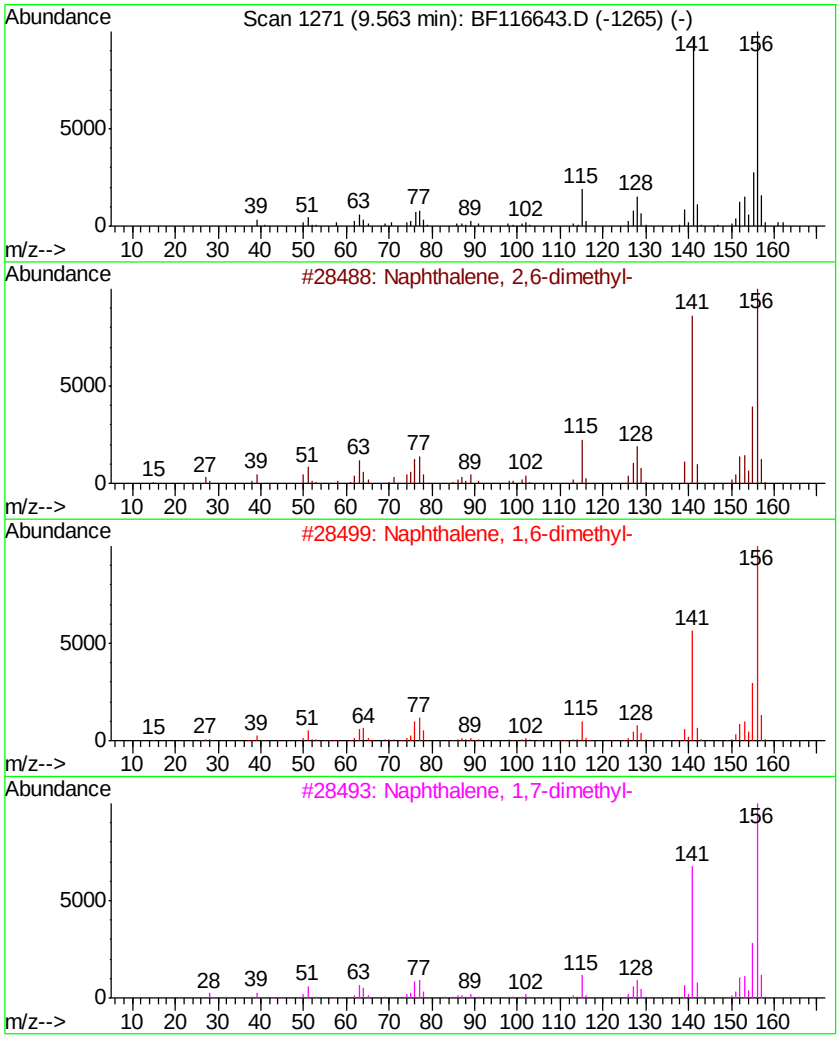
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

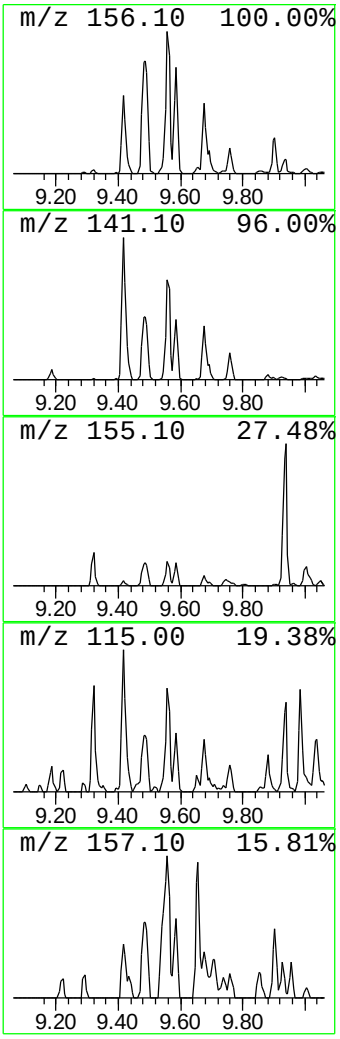
**********

Peak Number 5 Naphthalene, 1,6-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.56 | 4.44 ng | 245535 | Acenaphthene-d10 | 9.90 |

| 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, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

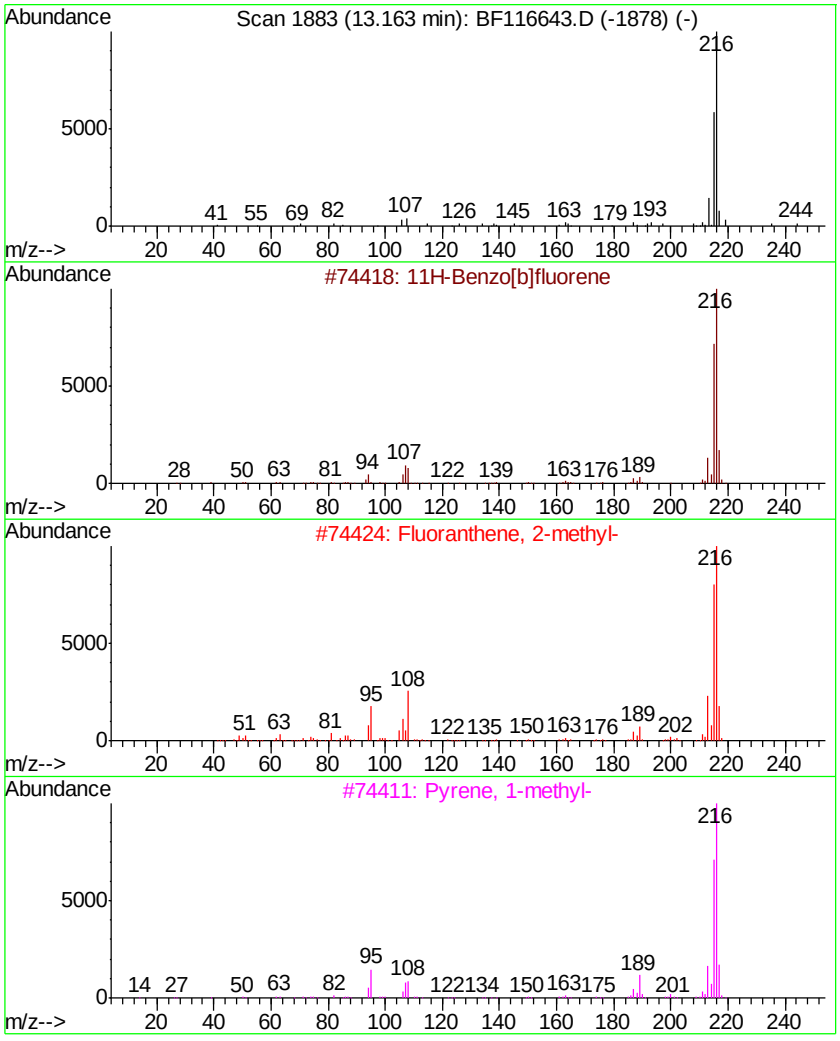
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

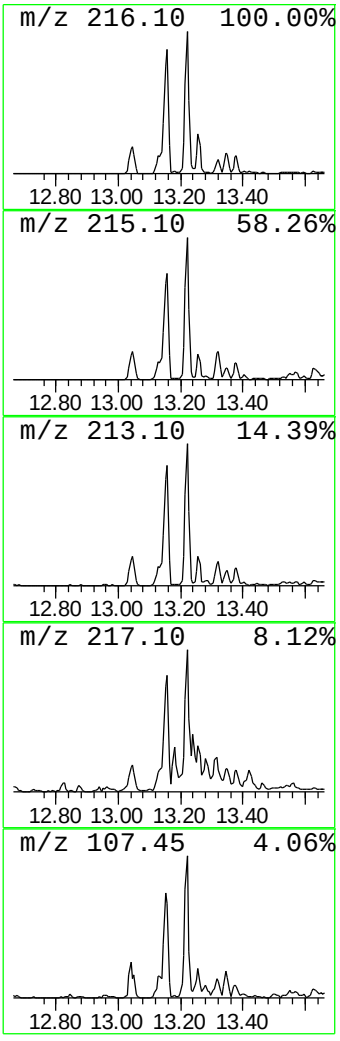
**********

Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.16 | 4.32 ng | 896883 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 97 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

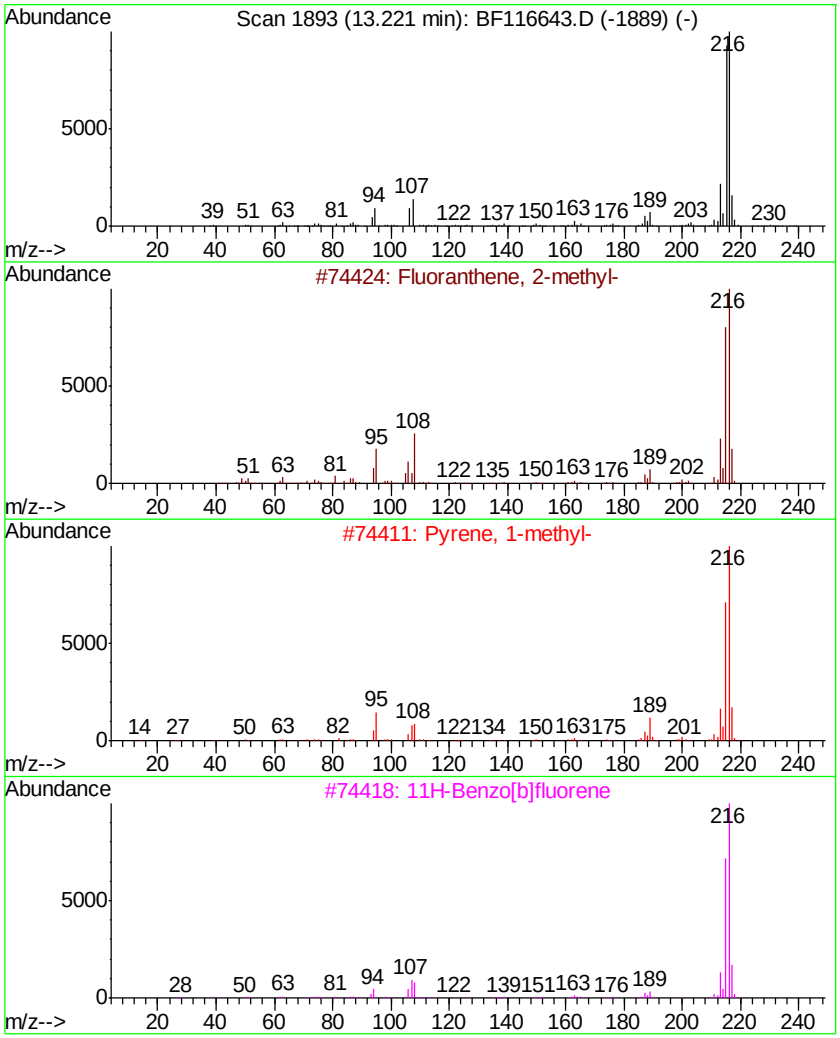
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

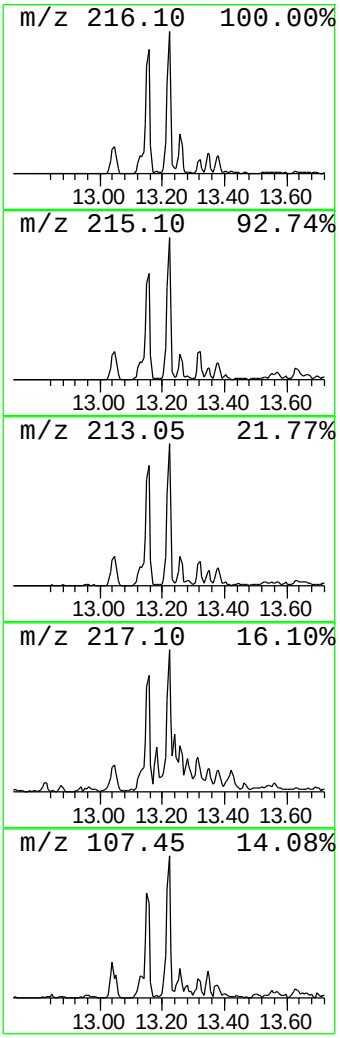
**********

Peak Number 7 Fluoranthene, 2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.22 | 4.73 ng | 982121 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

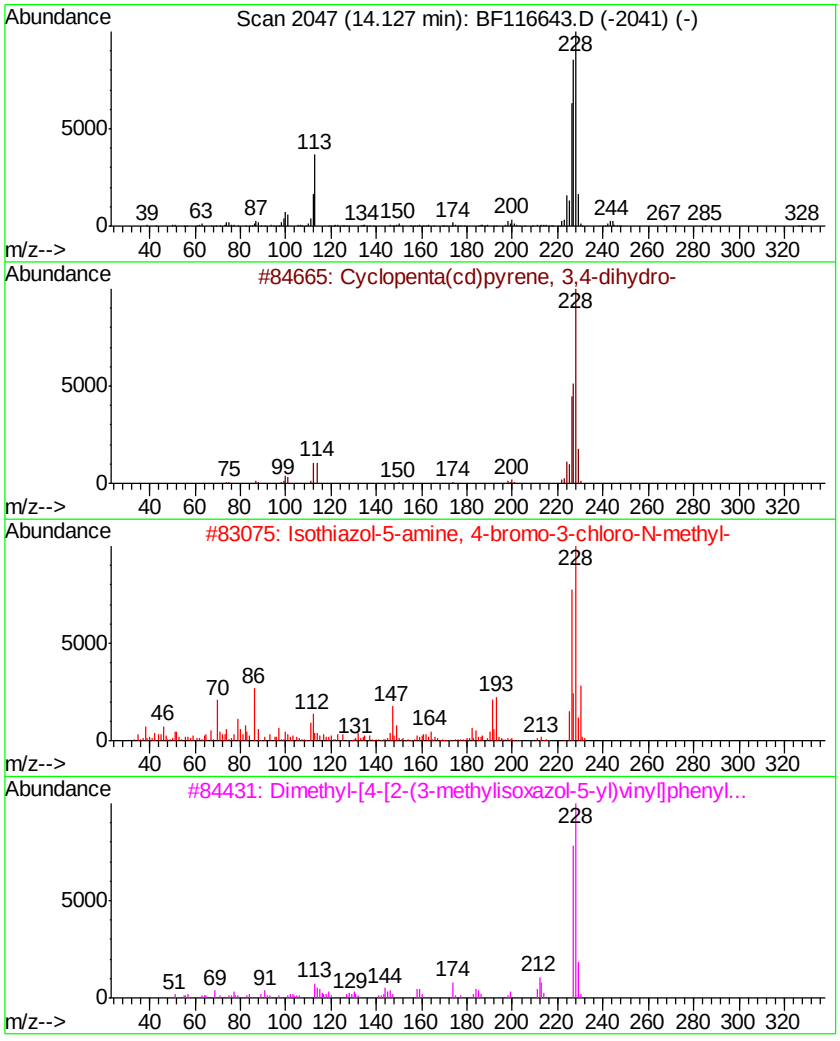
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

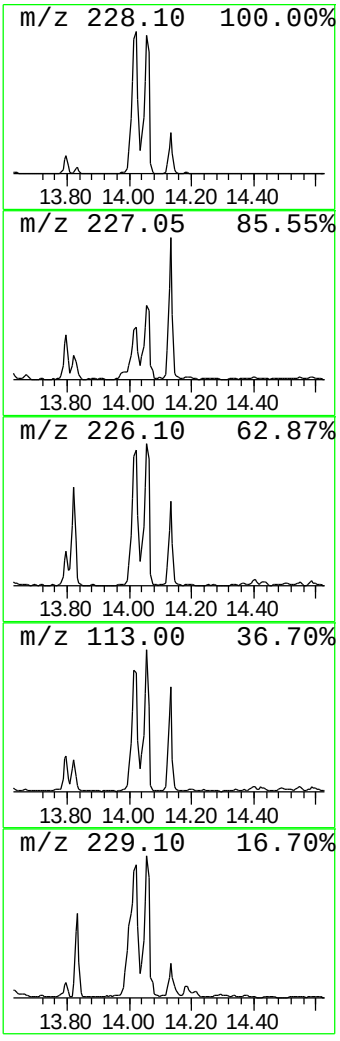
**********

Peak Number 8 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.13 | 4.84 ng | 1003600 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 87 |
| 2 | Isothiazol-5-amine, 4-bromo-3-ch... | 226 | C4H4BrClN2S | 1000272-59-9 | 50 |
| 3 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 50 |
| 4 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 43 |
| 5 | Triphenylene | 228 | C18H12 | 000217-59-4 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

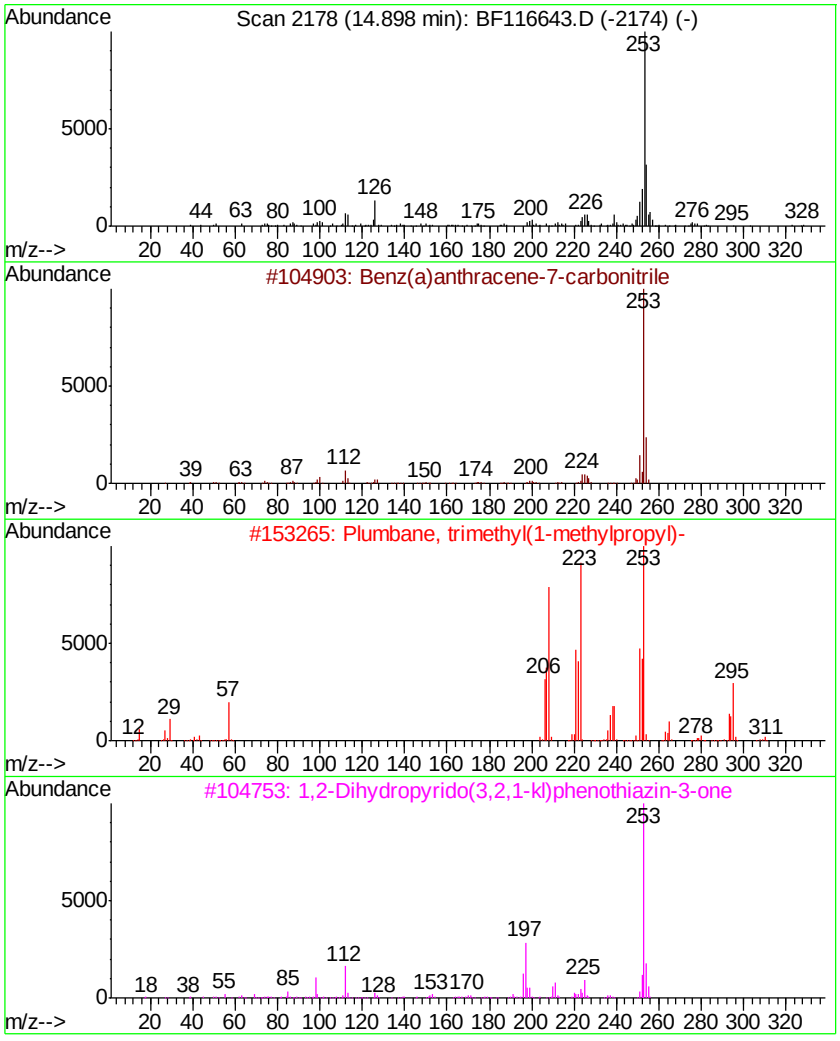
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

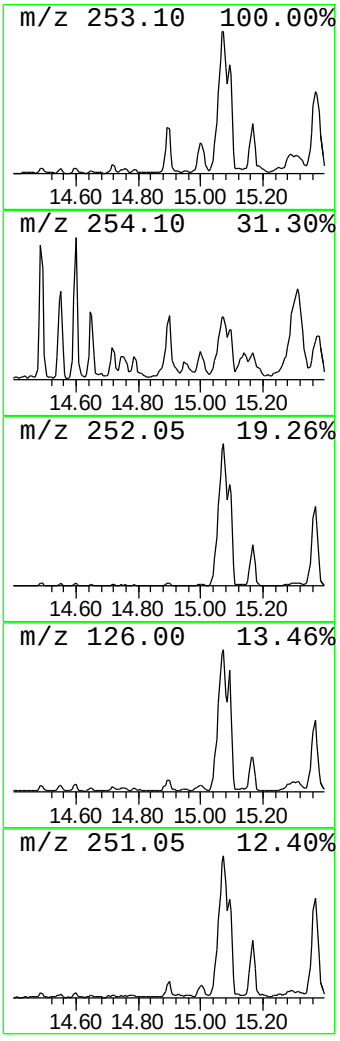
**********

Peak Number 9 Benz(a)anthracene-7-carboni... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.90 | 10.96 ng | 176062 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz(a)anthracene-7-carbonitrile | 253 | C19H11N | 007476-08-6 | 76 |
| 2 | Plumbane, trimethyl(1-methylprop... | 310 | C7H18Pb | 054964-76-0 | 50 |
| 3 | 1,2-Dihydropyrido(3,2,1-kl)pheno... | 253 | C15H11NOS | 069513-42-4 | 50 |
| 4 | Acridin-1(2H)-one, 3,4-dihydro-3... | 282 | C18H22N2O | 146352-02-5 | 49 |
| 5 | 4,6'-Biazulenyl | 254 | C20H14 | 094154-49-1 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

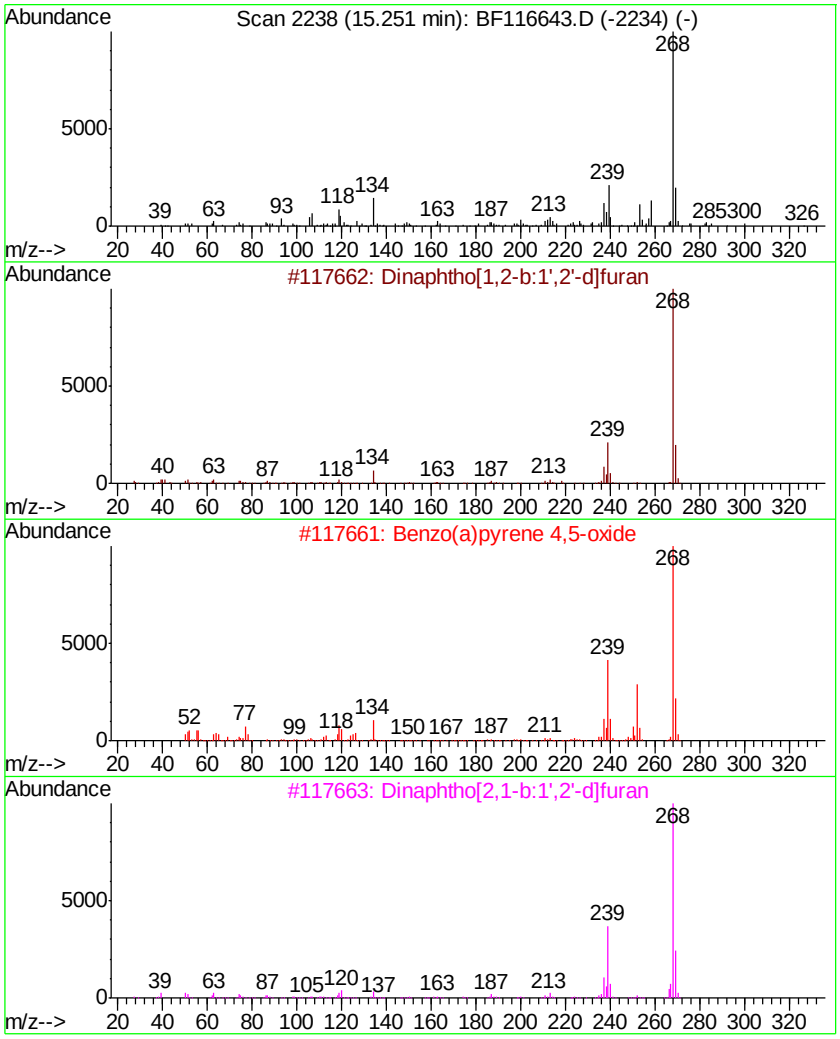
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

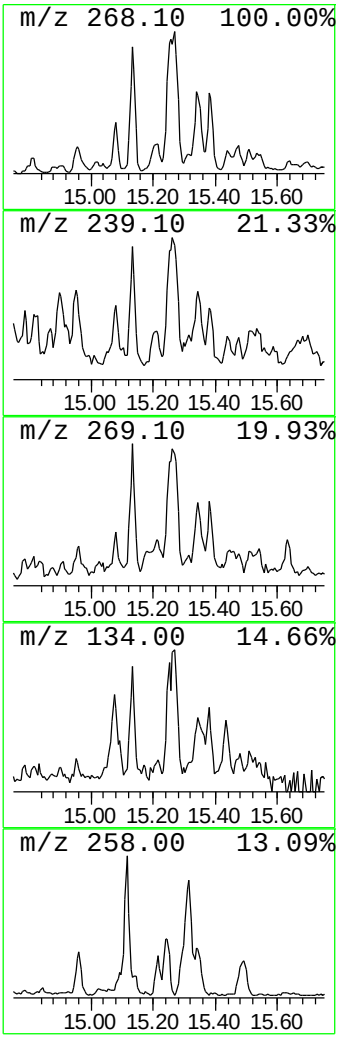
**********

Peak Number 11 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.25 | 7.24 ng | 116292 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 94 |
| 2 | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 64 |
| 3 | Dinaphtho[2,1-b:1',2'-d]furan | 268 | C20H12O | 000194-63-8 | 64 |
| 4 | 9,10-Anthracenedione, 2,3-dimeth... | 268 | C16H12O4 | 022506-55-4 | 58 |
| 5 | Benzo(a)pyren-7-ol | 268 | C20H12O | 037994-82-4 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

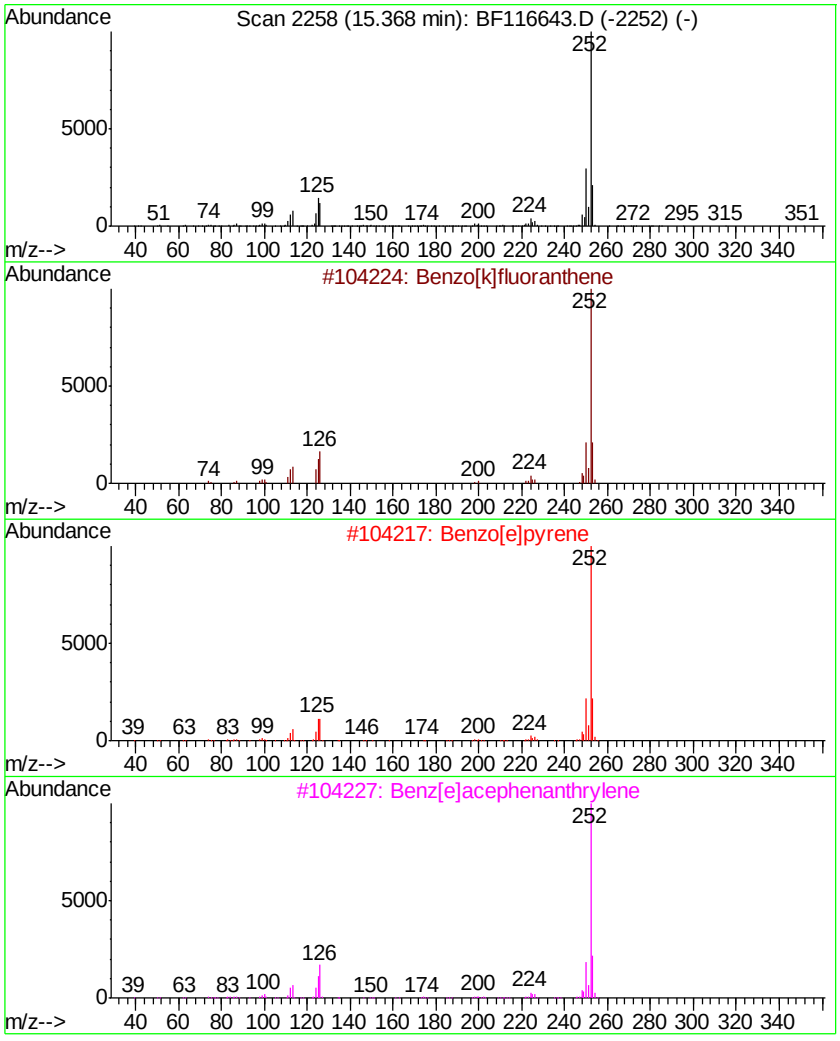
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

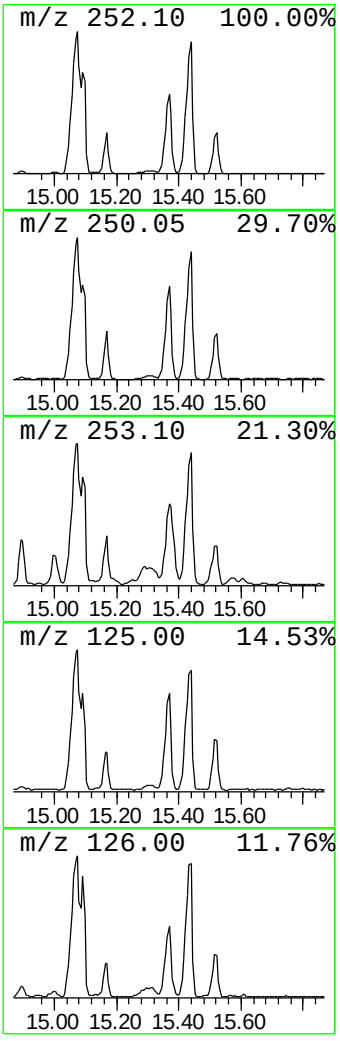
**********

Peak Number 12 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.37 | 77.76 ng | 1249100 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 94 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 94 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

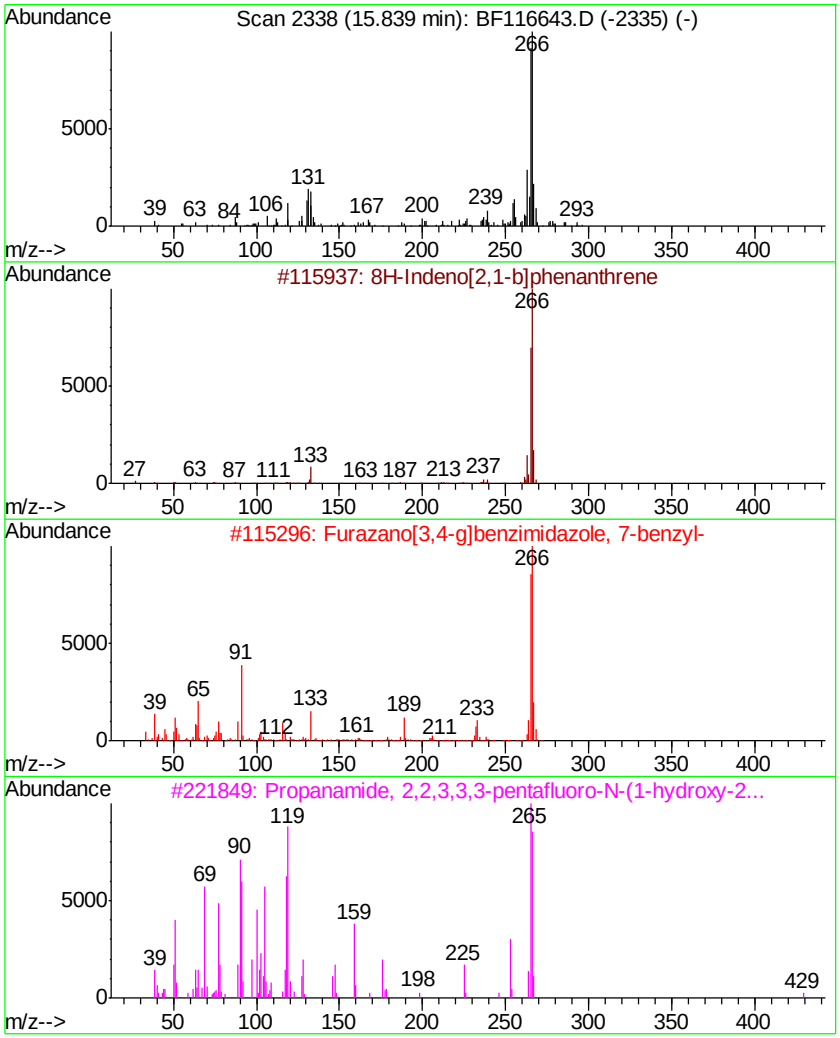
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

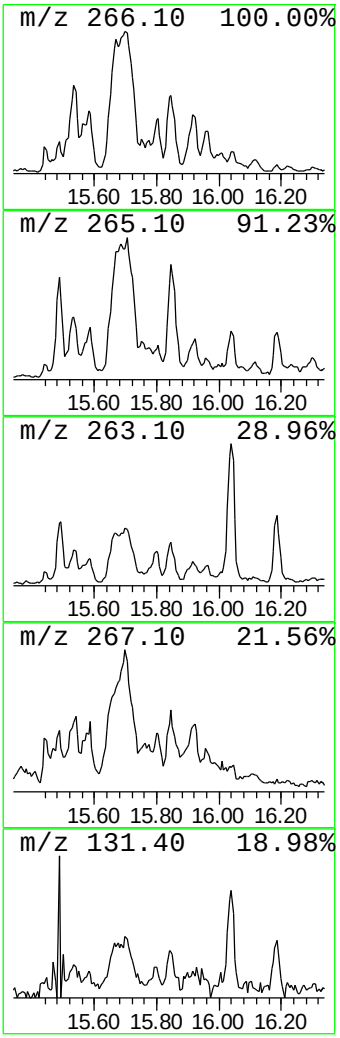
**********

Peak Number 13 8H-Indeno[2,1-b]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.84 | 10.27 ng | 165022 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 8H-Indeno[2,1-b]phenanthrene | 266 | C21H14 | 000241-28-1 | 68 |
| 2 | Furazano[3,4-g]benzimidazole, 7-... | 266 | C14H10N4S | 129485-61-6 | 64 |
| 3 | Propanamide, 2,2,3,3,3-pentafluo... | 429 | C14H9F10NO3 | 072347-72-9 | 64 |
| 4 | 1-Methyl-4-oxy-5-phenyl-1,3-dihy... | 266 | C16H14N2O2 | 1000286-08-5 | 58 |
| 5 | 2-Amino-3-cyano-5-[2-[3,4-methyl... | 266 | C14H10N4O2 | 1000252-72-1 | 52 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

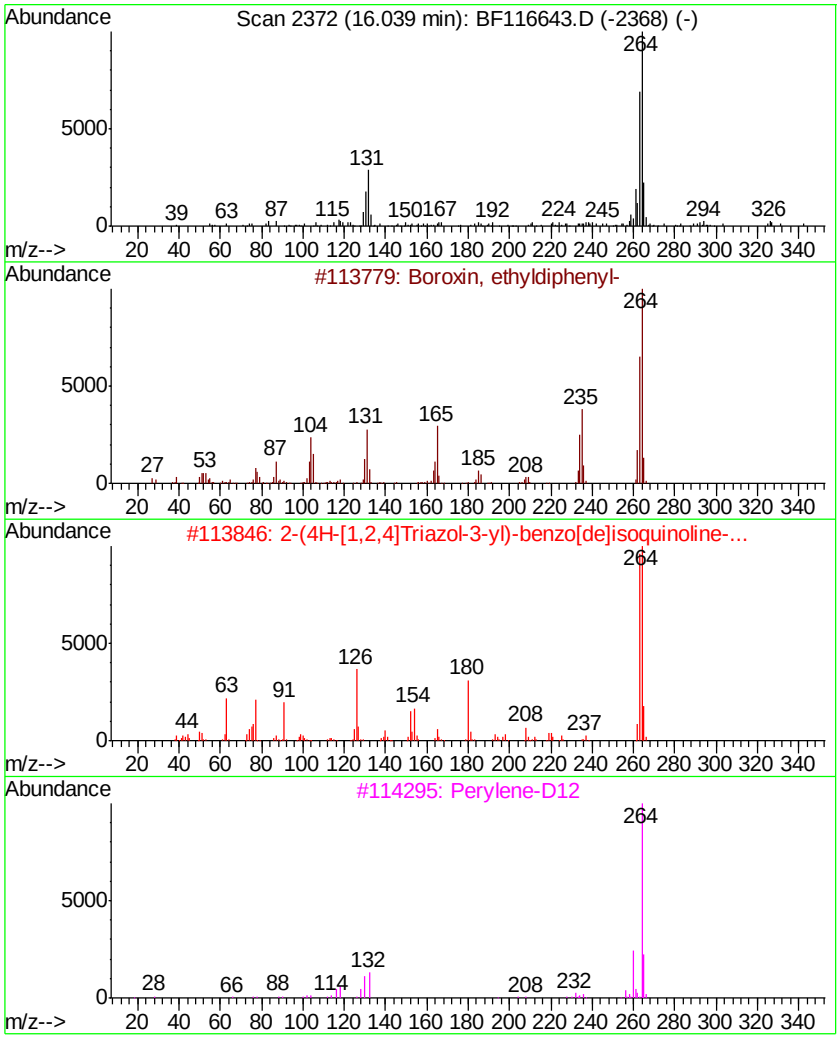
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

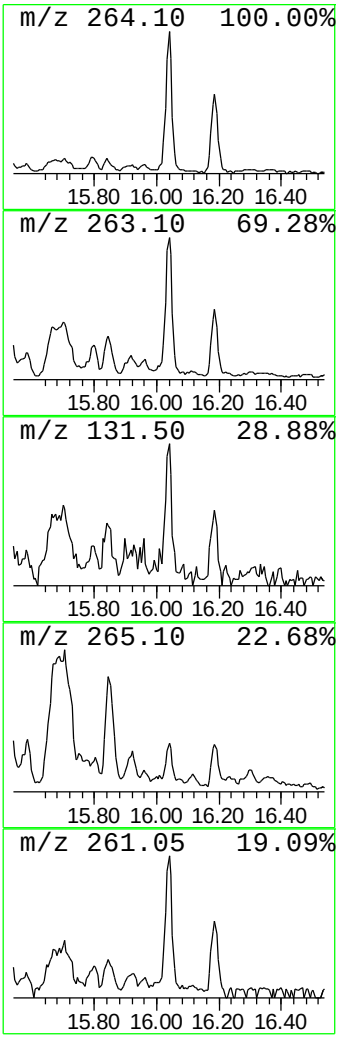
**********

Peak Number 14 Boroxin, ethyldiphenyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.04 | 11.28 ng | 181139 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Boroxin, ethyldiphenyl- | 264 | C14H15B3O3 | 1000151-82-0 | 72 |
| 2 | 2-(4H-[1,2,4]Triazol-3-yl)-benzo... | 264 | C14H8N4O2 | 1000318-09-6 | 50 |
| 3 | Perylene-D12 | 264 | C20D12 | 001520-96-3 | 43 |
| 4 | Cyclohex-4-ene-1,2-dicarboxylic ... | 392 | C24H44N2O2 | 1000187-42-7 | 40 |
| 5 | Dibenzo[b,f]oxepine-1-carbonitri... | 264 | C15H8N2O3 | 346662-30-4 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

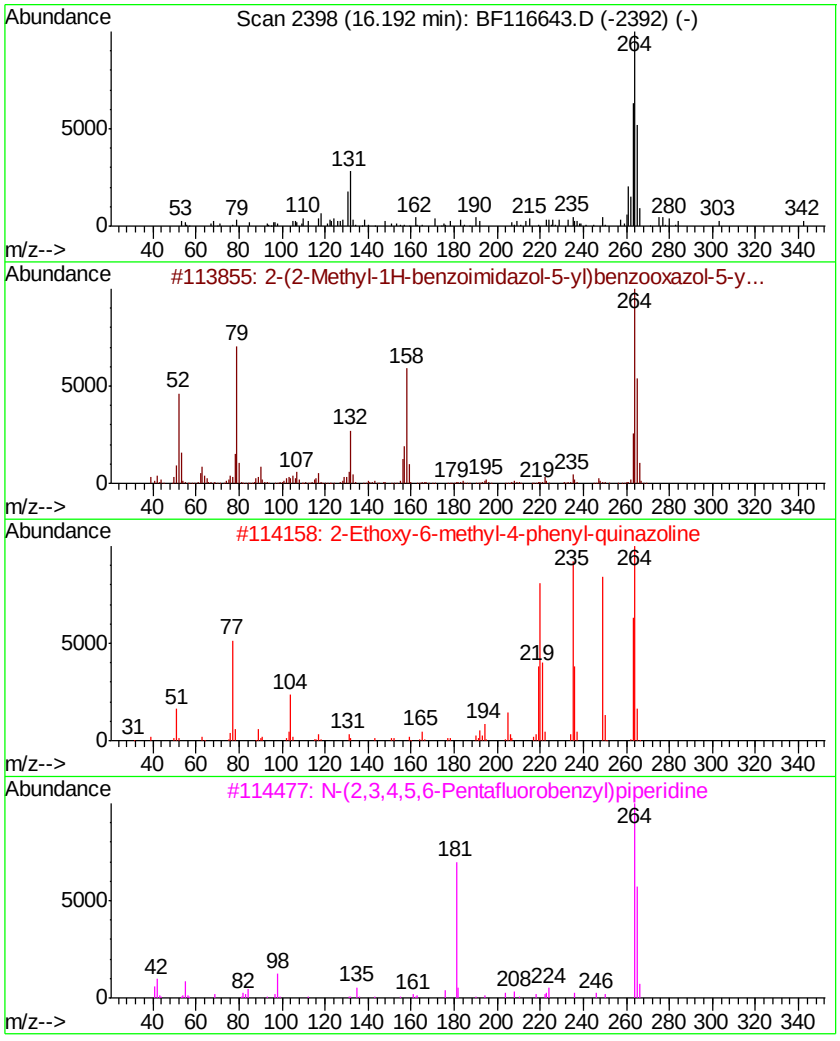
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

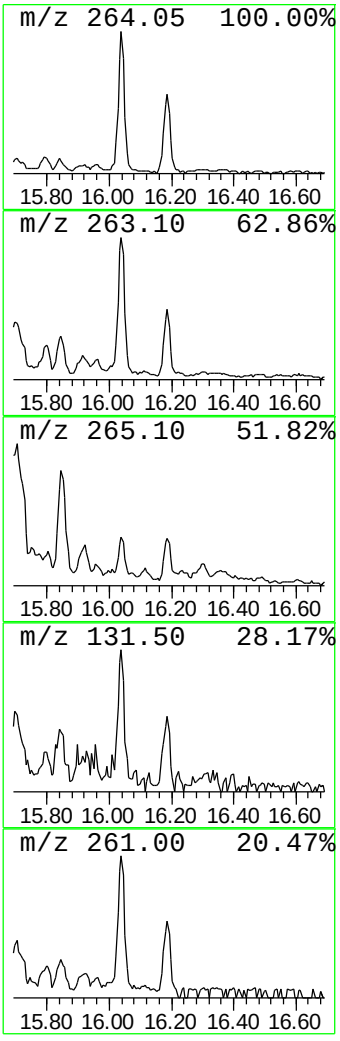
**********

Peak Number 15 unknown16.19 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.19 | 5.93 ng | 95308 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(2-Methyl-1H-benzoimidazol-5-y... | 264 | C15H12N4O | 1000322-07-9 | 47 |
| 2 | 2-Ethoxy-6-methyl-4-phenyl-quina... | 264 | C17H16N2O | 1000318-42-5 | 46 |
| 3 | N-(2,3,4,5,6-Pentafluorobenzyl)p... | 265 | C12H12F5N | 115217-20-4 | 43 |
| 4 | Boroxin, ethyldiphenyl- | 264 | C14H15B3O3 | 1000151-82-0 | 42 |
| 5 | Dibenz[b,f]azepine, 1,9-dichloro... | 263 | C14H11Cl2N | 107517-53-3 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

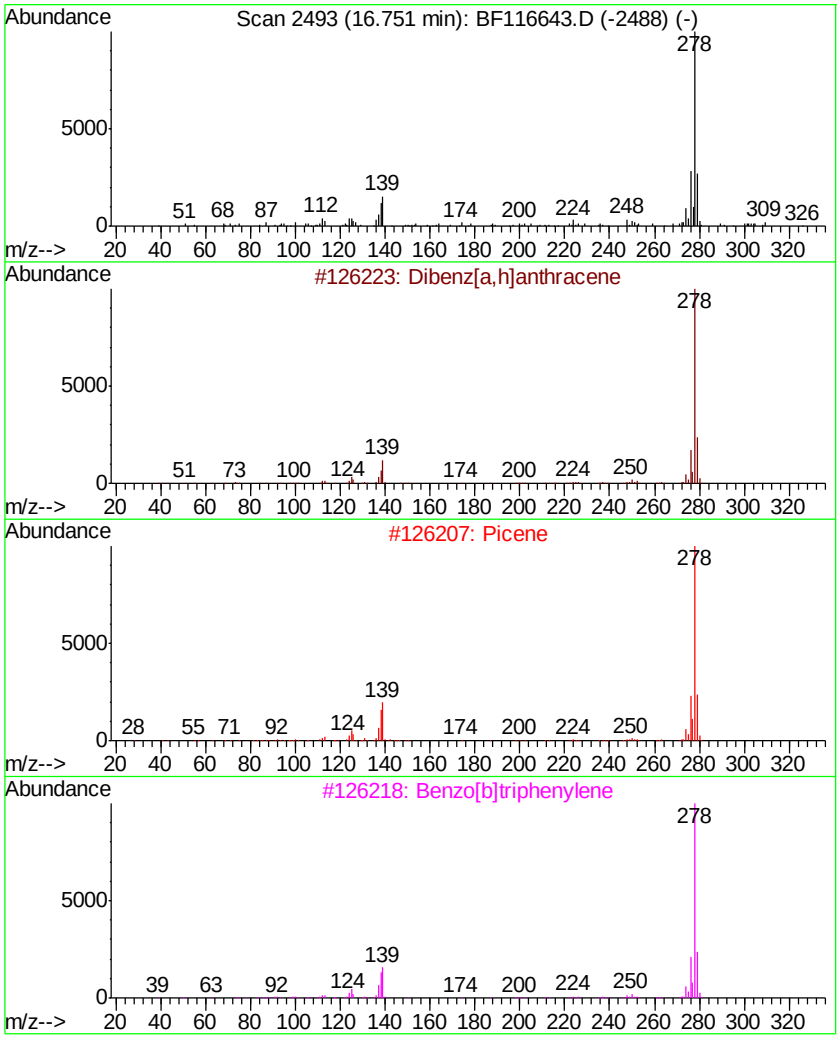
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

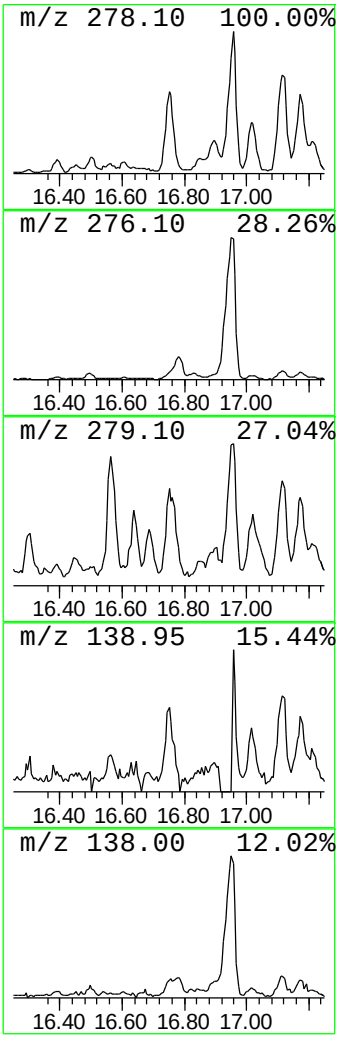
**********

Peak Number 16 Picene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.75 | 7.88 ng | 126553 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 91 |
| 2 | Picene | 278 | C22H14 | 000213-46-7 | 89 |
| 3 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 89 |
| 4 | Dibenz[a,j]anthracene | 278 | C22H14 | 000224-41-9 | 87 |
| 5 | Benzo[b]chrysene | 278 | C22H14 | 000214-17-5 | 81 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

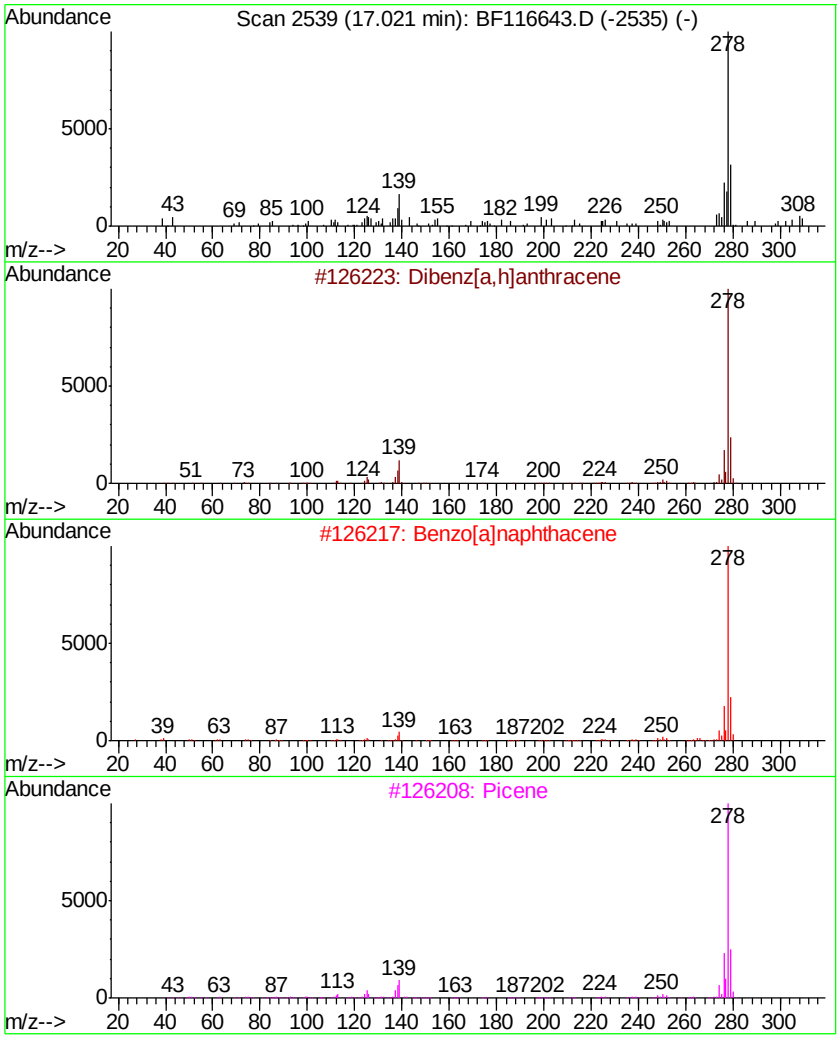
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

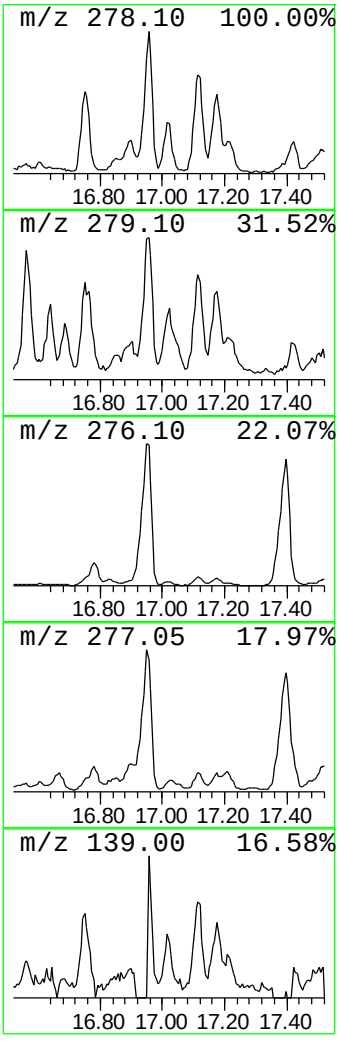
**********

Peak Number 17 Benzo[a]naphthacene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.02 | 5.65 ng | 90756 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 94 |
| 2 | Benzo[a]naphthacene | 278 | C22H14 | 000226-88-0 | 92 |
| 3 | Picene | 278 | C22H14 | 000213-46-7 | 91 |
| 4 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 89 |
| 5 | p-Bis(phenylethynyl)benzene | 278 | C22H14 | 001849-27-0 | 76 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

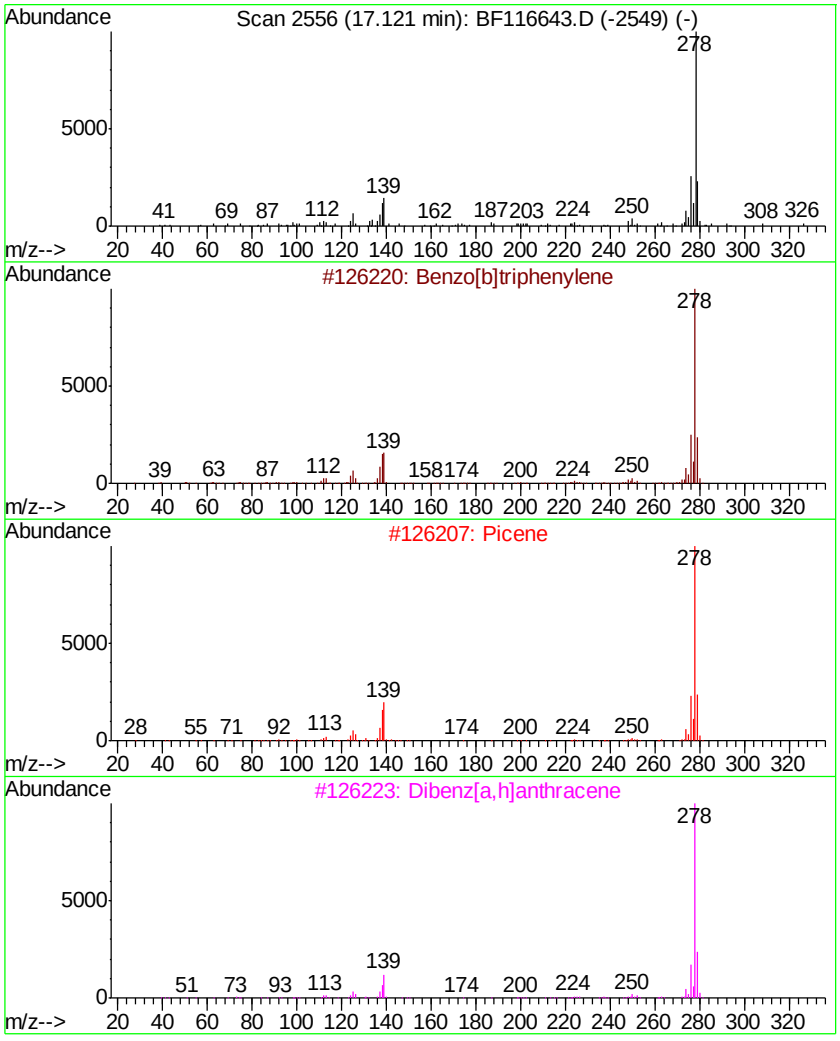
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

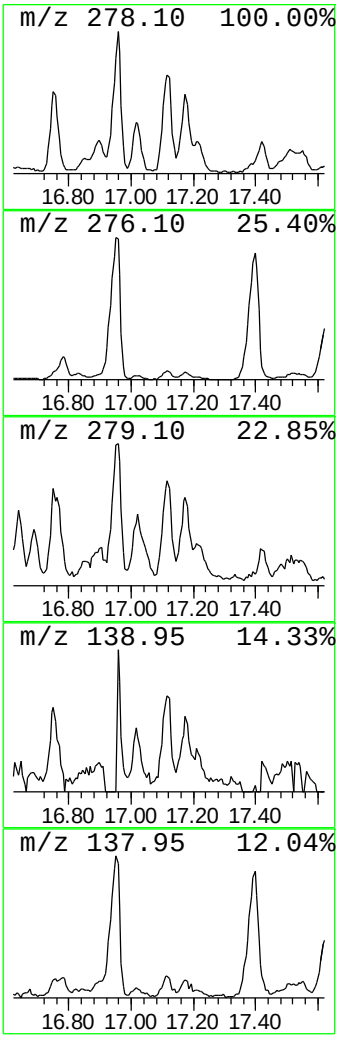
**********

Peak Number 18 Benzo[b]triphenylene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.12 | 10.66 ng | 171295 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 97 |
| 2 | Picene | 278 | C22H14 | 000213-46-7 | 93 |
| 3 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 91 |
| 4 | Pentacene | 278 | C22H14 | 000135-48-8 | 90 |
| 5 | Pentaphene | 278 | C22H14 | 000222-93-5 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

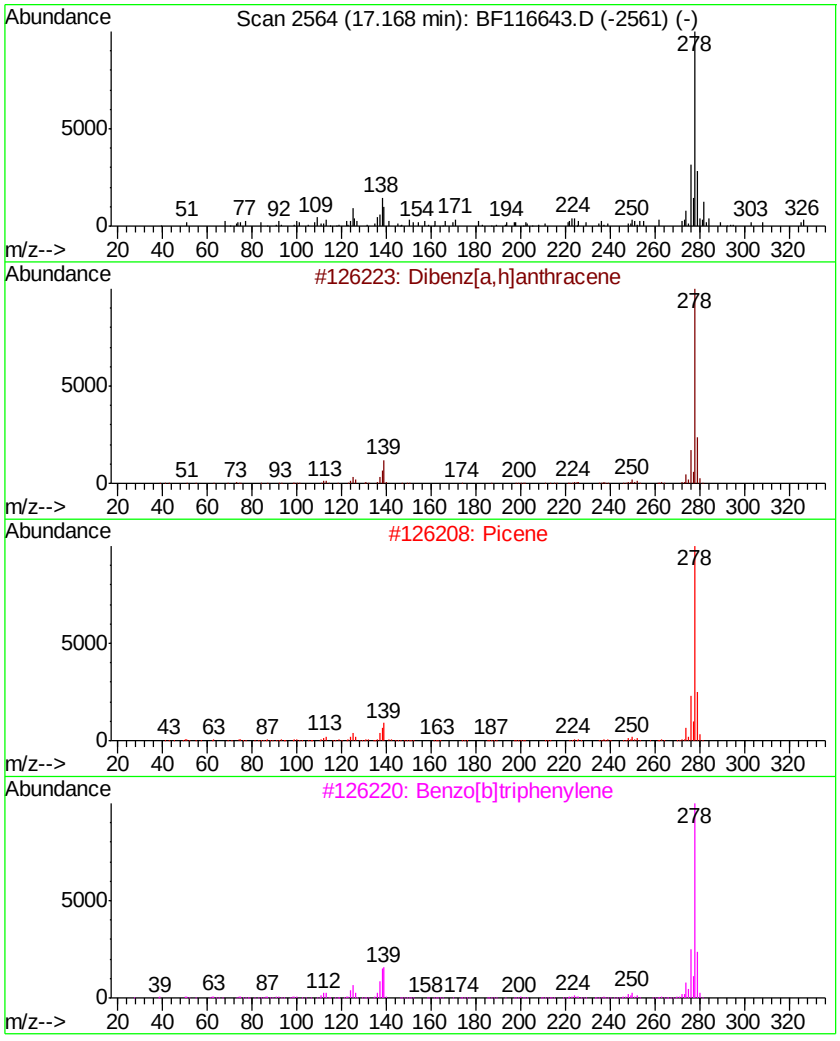
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

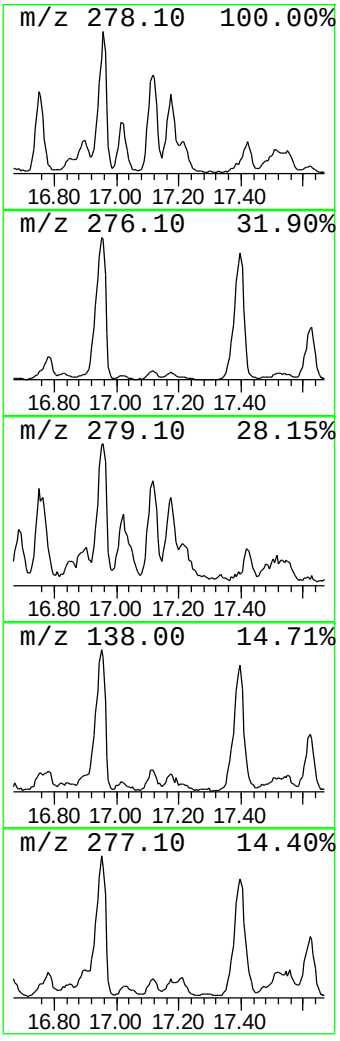
**********

Peak Number 19 Pentacene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.17 | 6.31 ng | 101434 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 96 |
| 2 | Picene | 278 | C22H14 | 000213-46-7 | 96 |
| 3 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 95 |
| 4 | 4-Iodophenoxyacetic acid | 278 | C8H7IO3 | 001878-94-0 | 90 |
| 5 | Pentacene | 278 | C22H14 | 000135-48-8 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

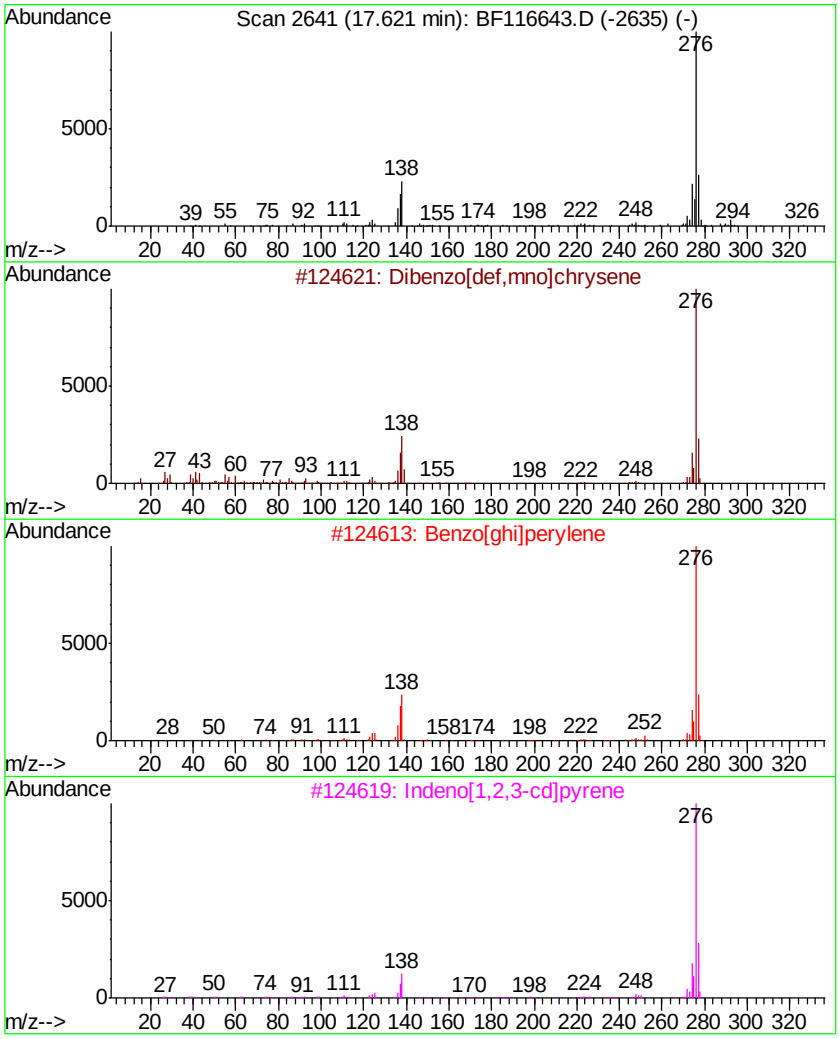
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

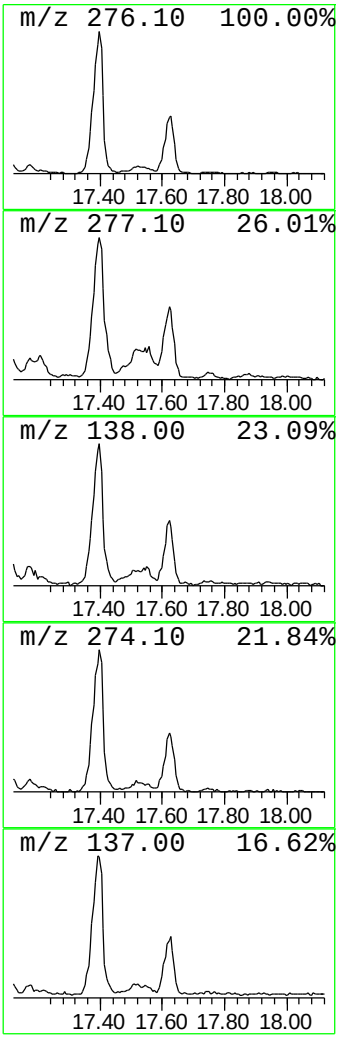
**********

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.62 | 24.18 ng | 388451 | Perylene-d12 | 15.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzo[def,mno]chrysene | 276 | C22H12 | 000191-26-4 | 97 |
| 2 | Benzo[ghi]perylene | 276 | C22H12 | 000191-24-2 | 94 |
| 3 | Indeno[1,2,3-cd]pyrene | 276 | C22H12 | 000193-39-5 | 89 |
| 4 | Indeno[1,2,3-cd]fluoranthene | 276 | C22H12 | 000193-43-1 | 72 |
| 5 | Phenol, 2-(4-chlorophenyliminome... | 276 | C13H9ClN2O3 | 1000262-90-3 | 59 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082819\
Data File : BF116643.D
Acq On : 29 Aug 2019 4:12
Operator : HP/JU
Sample : K4409-12 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S301-J-3.0-3.5-081919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| unknown6.63 | 6.63 | 6.3 | ng | 146153 | 1 | 6.87 | 462799 | 20.0 |
| Quinoline | 8.50 | 4.6 | ng | 195599 | 2 | 8.15 | 849077 | 20.0 |
| Naphthalene, 2,6-... | 9.49 | 4.3 | ng | 238231 | 3 | 9.90 | 1105090 | 20.0 |
| Naphthalene, 1,6-... | 9.56 | 4.4 | ng | 245535 | 3 | 9.90 | 1105090 | 20.0 |
| 11H-Benzo[b]fluorene | 13.16 | 4.3 | ng | 896883 | 5 | 14.03 | 4150770 | 20.0 |
| Fluoranthene, 2-m... | 13.22 | 4.7 | ng | 982121 | 5 | 14.03 | 4150770 | 20.0 |
| Cyclopenta(cd)pyr... | 14.13 | 4.8 | ng | 1003600 | 5 | 14.03 | 4150770 | 20.0 |
| Benz(a)anthracene... | 14.90 | 11.0 | ng | 176062 | 6 | 15.49 | 321271 | 20.0 |
| Dinaphtho[1,2-b:1... | 15.25 | 7.2 | ng | 116292 | 6 | 15.49 | 321271 | 20.0 |
| Benzo[e]pyrene | 15.37 | 77.8 | ng | 1249100 | 6 | 15.49 | 321271 | 20.0 |
| 8H-Indeno[2,1-b]p... | 15.84 | 10.3 | ng | 165022 | 6 | 15.49 | 321271 | 20.0 |
| Boroxin, ethyldip... | 16.04 | 11.3 | ng | 181139 | 6 | 15.49 | 321271 | 20.0 |
| unknown16.19 | 16.19 | 5.9 | ng | 95308 | 6 | 15.49 | 321271 | 20.0 |
| Picene | 16.75 | 7.9 | ng | 126553 | 6 | 15.49 | 321271 | 20.0 |
| Benzo[a]naphthacene | 17.02 | 5.7 | ng | 90756 | 6 | 15.49 | 321271 | 20.0 |
| Benzo[b]triphenylene | 17.12 | 10.7 | ng | 171295 | 6 | 15.49 | 321271 | 20.0 |
| Pentacene | 17.17 | 6.3 | ng | 101434 | 6 | 15.49 | 321271 | 20.0 |
| Dibenzo[def,mno]c... | 17.62 | 24.2 | ng | 388451 | 6 | 15.49 | 321271 | 20.0 |