LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

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:\HPCHEM1\BNA_F\METHODS\8270-BF062717.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 | 2.851 | 124 | 130 | 134 | rVB4 | 14740 | 25445 | 1.98% | 0.164% |
| 2 | 3.792 | 283 | 290 | 297 | rBV | 36600 | 60130 | 4.69% | 0.387% |
| 3 | 4.410 | 391 | 395 | 403 | rVB5 | 20206 | 31608 | 2.47% | 0.204% |
| 4 | 4.934 | 480 | 484 | 487 | rBV2 | 11532 | 16849 | 1.31% | 0.109% |
| 5 | 4.963 | 487 | 489 | 498 | rVB | 124487 | 144362 | 11.26% | 0.930% |
| 6 | 5.386 | 558 | 561 | 565 | rVB | 847093 | 761778 | 59.42% | 4.909% |
| 7 | 5.628 | 600 | 602 | 612 | rVB2 | 33997 | 38705 | 3.02% | 0.249% |
| 8 | 5.704 | 612 | 615 | 619 | rBV2 | 28274 | 29059 | 2.27% | 0.187% |
| 9 | 5.951 | 650 | 657 | 661 | rVB5 | 20495 | 23616 | 1.84% | 0.152% |
| 10 | 6.045 | 669 | 673 | 680 | rVB5 | 19328 | 23248 | 1.81% | 0.150% |
| 11 | 6.239 | 700 | 706 | 710 | rBV5 | 13770 | 26037 | 2.03% | 0.168% |
| 12 | 6.328 | 717 | 721 | 723 | rBV3 | 19558 | 23936 | 1.87% | 0.154% |
| 13 | 6.404 | 729 | 734 | 737 | rBV | 955408 | 734061 | 57.26% | 4.730% |
| 14 | 6.545 | 755 | 758 | 762 | rBV | 836072 | 727241 | 56.73% | 4.686% |
| 15 | 6.616 | 766 | 770 | 771 | rBV | 30849 | 29064 | 2.27% | 0.187% |
| 16 | 6.633 | 771 | 773 | 775 | rVB | 29953 | 19749 | 1.54% | 0.127% |
| 17 | 6.781 | 795 | 798 | 802 | rBV | 991068 | 897824 | 70.03% | 5.786% |
| 18 | 6.845 | 807 | 809 | 814 | rVB3 | 23638 | 24294 | 1.90% | 0.157% |
| 19 | 6.939 | 821 | 825 | 828 | rBV | 705537 | 537473 | 41.93% | 3.464% |
| 20 | 7.110 | 850 | 854 | 856 | rBV3 | 19748 | 18909 | 1.47% | 0.122% |
| 21 | 7.186 | 862 | 867 | 869 | rBV3 | 25320 | 26237 | 2.05% | 0.169% |
| 22 | 7.333 | 886 | 892 | 896 | rBV | 504843 | 416202 | 32.47% | 2.682% |
| 23 | 7.392 | 900 | 902 | 905 | rVB | 43962 | 35131 | 2.74% | 0.226% |
| 24 | 7.428 | 905 | 908 | 914 | rBV5 | 23221 | 23906 | 1.86% | 0.154% |
| 25 | 7.751 | 961 | 963 | 967 | rBV4 | 23843 | 24444 | 1.91% | 0.158% |
| 26 | 8.063 | 1013 | 1016 | 1019 | rBV | 1389312 | 1204328 | 93.94% | 7.761% |
| 27 | 8.086 | 1019 | 1020 | 1023 | rVV | 110470 | 60313 | 4.70% | 0.389% |
| 28 | 8.139 | 1027 | 1029 | 1031 | rVB | 24014 | 16330 | 1.27% | 0.105% |
| 29 | 8.498 | 1085 | 1090 | 1095 | rBV | 37369 | 38295 | 2.99% | 0.247% |
| 30 | 8.669 | 1116 | 1119 | 1122 | rVB | 43757 | 32261 | 2.52% | 0.208% |
| 31 | 8.774 | 1134 | 1137 | 1140 | rVB | 115899 | 90402 | 7.05% | 0.583% |
| 32 | 8.874 | 1151 | 1154 | 1157 | rBV | 73614 | 55688 | 4.34% | 0.359% |
| 33 | 9.098 | 1190 | 1192 | 1195 | rVB | 27863 | 21935 | 1.71% | 0.141% |
| 34 | 9.139 | 1195 | 1199 | 1202 | rBV | 877333 | 679397 | 53.00% | 4.378% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

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:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.233 | 1211 | 1215 | 1220 | rBV2 | 70541 | 79086 | 6.17% | 0.510% |
| 36 | 9.333 | 1230 | 1232 | 1237 | rBV2 | 16757 | 18878 | 1.47% | 0.122% |
| 37 | 9.398 | 1240 | 1243 | 1251 | rBV2 | 33098 | 54841 | 4.28% | 0.353% |
| 38 | 9.474 | 1254 | 1256 | 1259 | rVV | 49738 | 47721 | 3.72% | 0.308% |
| 39 | 9.504 | 1259 | 1261 | 1263 | rVB | 46468 | 32753 | 2.55% | 0.211% |
| 40 | 9.527 | 1263 | 1265 | 1268 | rBV | 87594 | 81997 | 6.40% | 0.528% |
| 41 | 9.551 | 1268 | 1269 | 1271 | rVV | 35942 | 24009 | 1.87% | 0.155% |
| 42 | 9.592 | 1274 | 1276 | 1278 | rVV | 25361 | 16178 | 1.26% | 0.104% |
| 43 | 9.674 | 1287 | 1290 | 1293 | rBV | 87038 | 68216 | 5.32% | 0.440% |
| 44 | 9.763 | 1302 | 1305 | 1309 | rVB | 55036 | 46742 | 3.65% | 0.301% |
| 45 | 9.816 | 1309 | 1314 | 1318 | rBV | 1322718 | 1141206 | 89.02% | 7.354% |
| 46 | 9.845 | 1318 | 1319 | 1323 | rVB3 | 28217 | 22811 | 1.78% | 0.147% |
| 47 | 9.933 | 1328 | 1334 | 1337 | rBV6 | 18154 | 35715 | 2.79% | 0.230% |
| 48 | 10.021 | 1345 | 1349 | 1352 | rBV | 69377 | 65067 | 5.08% | 0.419% |
| 49 | 10.057 | 1352 | 1355 | 1358 | rBV | 16531 | 17277 | 1.35% | 0.111% |
| 50 | 10.098 | 1358 | 1362 | 1365 | rBV | 64003 | 67403 | 5.26% | 0.434% |
| 51 | 10.163 | 1370 | 1373 | 1376 | rVB4 | 31319 | 30343 | 2.37% | 0.196% |
| 52 | 10.227 | 1380 | 1384 | 1387 | rBV4 | 33198 | 50888 | 3.97% | 0.328% |
| 53 | 10.263 | 1387 | 1390 | 1392 | rVB | 52392 | 45599 | 3.56% | 0.294% |
| 54 | 10.357 | 1403 | 1406 | 1408 | rBV2 | 51843 | 41064 | 3.20% | 0.265% |
| 55 | 10.480 | 1424 | 1427 | 1430 | rBV2 | 51212 | 52898 | 4.13% | 0.341% |
| 56 | 10.521 | 1431 | 1434 | 1439 | rVB5 | 29216 | 32471 | 2.53% | 0.209% |
| 57 | 10.598 | 1443 | 1447 | 1451 | rBV | 455496 | 405887 | 31.66% | 2.616% |
| 58 | 10.639 | 1451 | 1454 | 1458 | rVB6 | 25994 | 30892 | 2.41% | 0.199% |
| 59 | 10.698 | 1461 | 1464 | 1466 | rBV | 45118 | 40420 | 3.15% | 0.260% |
| 60 | 10.745 | 1466 | 1472 | 1476 | rVB | 180999 | 227305 | 17.73% | 1.465% |
| 61 | 10.804 | 1480 | 1482 | 1484 | rBV2 | 16615 | 19783 | 1.54% | 0.127% |
| 62 | 11.098 | 1529 | 1532 | 1537 | rVB3 | 31718 | 43135 | 3.36% | 0.278% |
| 63 | 11.180 | 1543 | 1546 | 1548 | rBV | 66918 | 66600 | 5.20% | 0.429% |
| 64 | 11.210 | 1548 | 1551 | 1554 | rVB | 99051 | 98645 | 7.69% | 0.636% |
| 65 | 11.298 | 1562 | 1566 | 1568 | rBV | 1100718 | 1006345 | 78.50% | 6.485% |
| 66 | 11.316 | 1568 | 1569 | 1573 | rVV | 227989 | 172503 | 13.46% | 1.112% |
| 67 | 11.368 | 1575 | 1578 | 1581 | rVB | 148152 | 119668 | 9.33% | 0.771% |
| 68 | 11.404 | 1581 | 1584 | 1591 | rBV9 | 23547 | 52365 | 4.08% | 0.337% |
| 69 | 11.521 | 1602 | 1604 | 1607 | rVB2 | 33840 | 28876 | 2.25% | 0.186% |
| 70 | 11.604 | 1615 | 1618 | 1621 | rBV2 | 65202 | 59376 | 4.63% | 0.383% |
| 71 | 11.798 | 1648 | 1651 | 1653 | rBV2 | 50182 | 51308 | 4.00% | 0.331% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

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:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.827 | 1653 | 1656 | 1660 | rVB | 174478 | 150484 | 11.74% | 0.970% |
| 73 | 11.904 | 1666 | 1669 | 1672 | rBV2 | 90601 | 102326 | 7.98% | 0.659% |
| 74 | 12.010 | 1685 | 1687 | 1689 | rVB | 48941 | 32773 | 2.56% | 0.211% |
| 75 | 12.092 | 1699 | 1701 | 1702 | rBV | 33285 | 23920 | 1.87% | 0.154% |
| 76 | 12.345 | 1742 | 1744 | 1748 | rBV5 | 53200 | 53366 | 4.16% | 0.344% |
| 77 | 12.398 | 1751 | 1753 | 1756 | rVB2 | 65097 | 53413 | 4.17% | 0.344% |
| 78 | 12.427 | 1756 | 1758 | 1764 | rBV6 | 43785 | 47826 | 3.73% | 0.308% |
| 79 | 12.504 | 1768 | 1771 | 1775 | rBV | 478264 | 394850 | 30.80% | 2.544% |
| 80 | 12.733 | 1804 | 1810 | 1812 | rBV | 395608 | 404985 | 31.59% | 2.610% |
| 81 | 12.851 | 1828 | 1830 | 1832 | rBV2 | 45435 | 41323 | 3.22% | 0.266% |
| 82 | 12.874 | 1832 | 1834 | 1841 | rVB | 657172 | 619820 | 48.35% | 3.994% |
| 83 | 13.127 | 1874 | 1877 | 1880 | rBV | 88952 | 72942 | 5.69% | 0.470% |
| 84 | 13.927 | 2009 | 2013 | 2016 | rBV2 | 1149014 | 1281972 | 100.00% | 8.261% |
| 85 | 14.951 | 2184 | 2187 | 2189 | rBV | 177173 | 227369 | 17.74% | 1.465% |
| 86 | 15.356 | 2253 | 2256 | 2260 | rVB | 513442 | 596265 | 46.51% | 3.842% |

Sum of corrected areas: 15518162

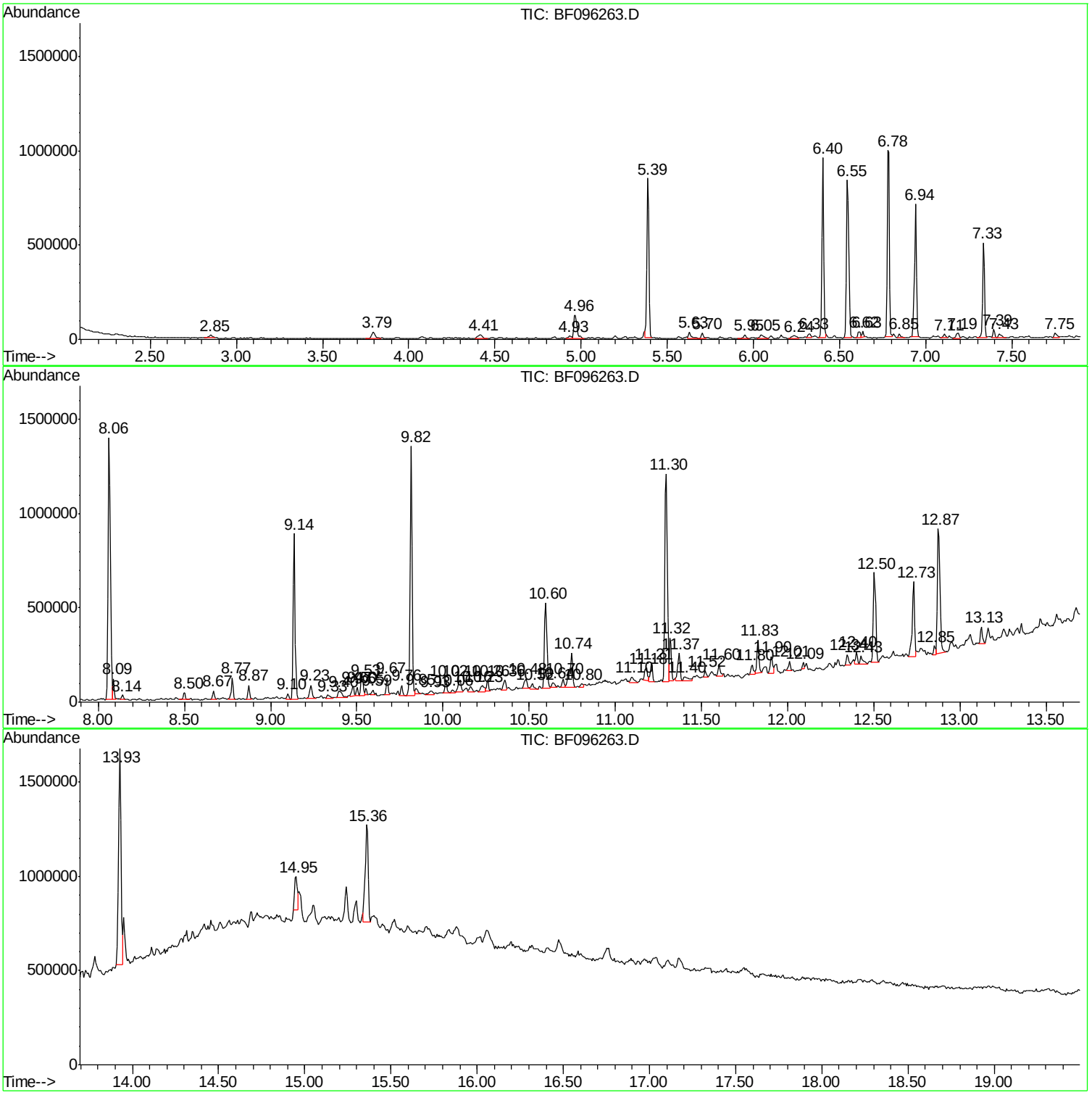
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

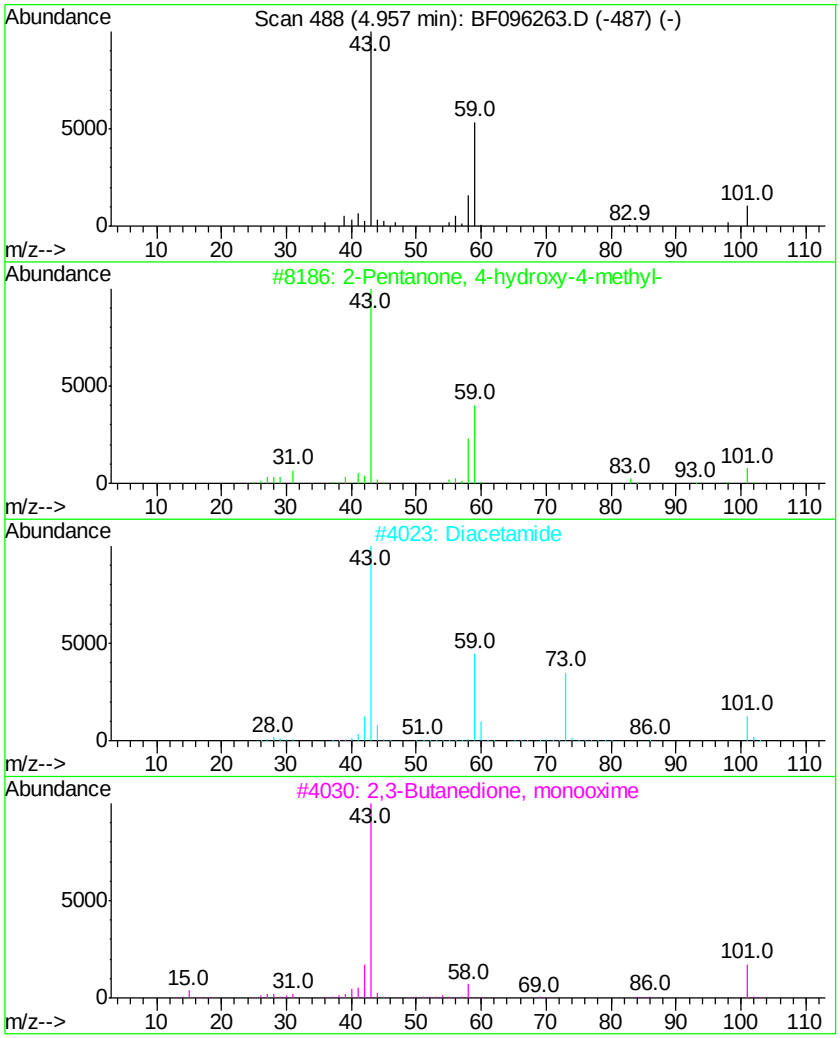
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

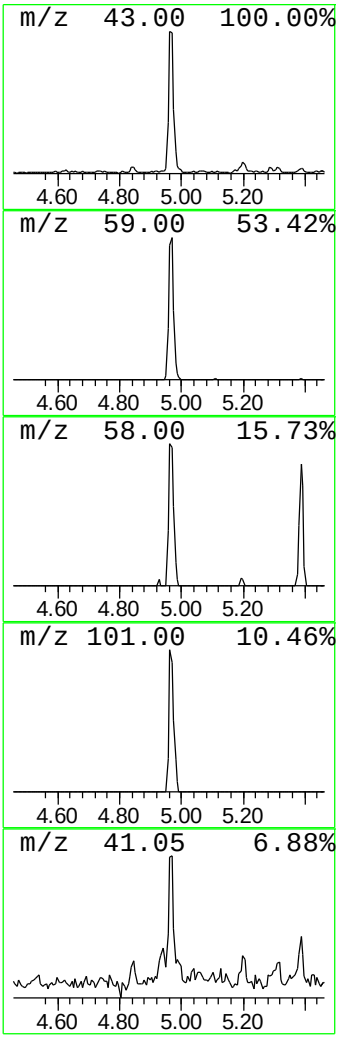
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.96 | 3.22 ng | 144362 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 9 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 9 |
| 5 | Formamide, N,N-diethyl- | 101 | C5H11NO | 000617-84-5 | 7 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

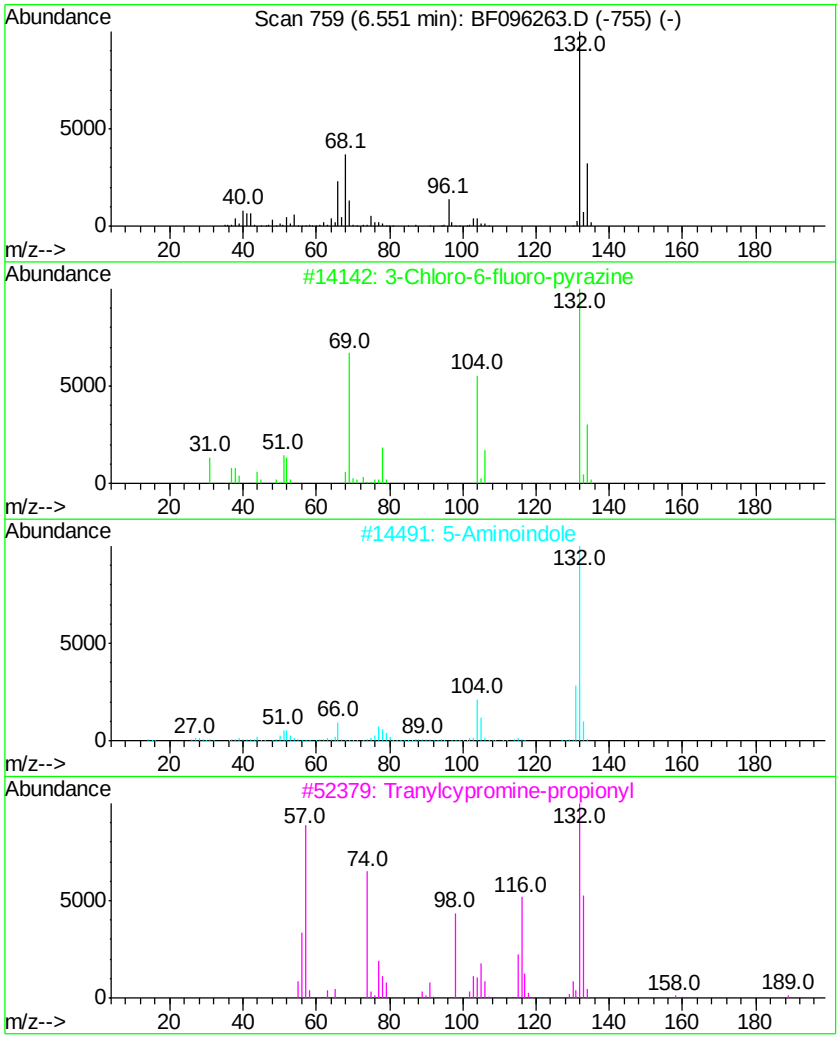
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

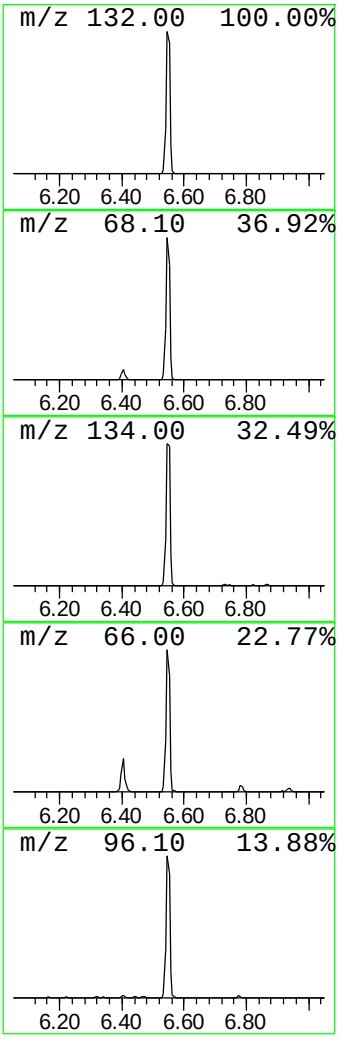
**********

Peak Number 2 unknown6.55 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.55 | 16.20 ng | 727241 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 10 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

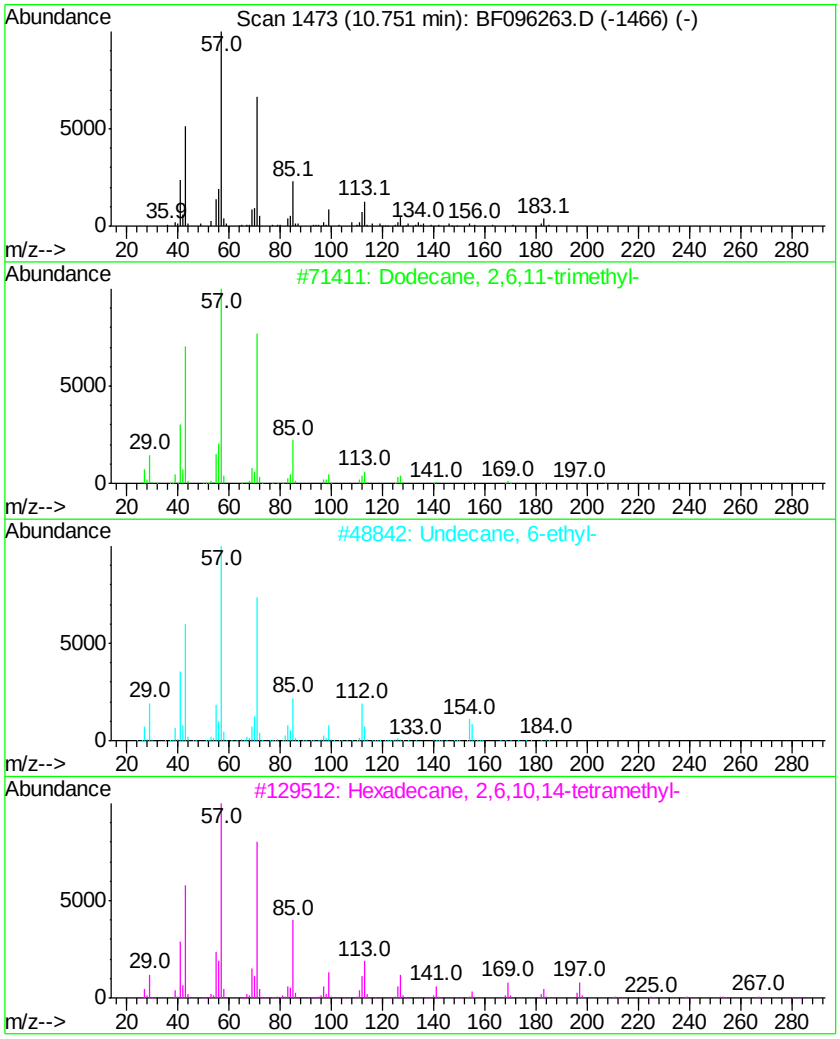
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

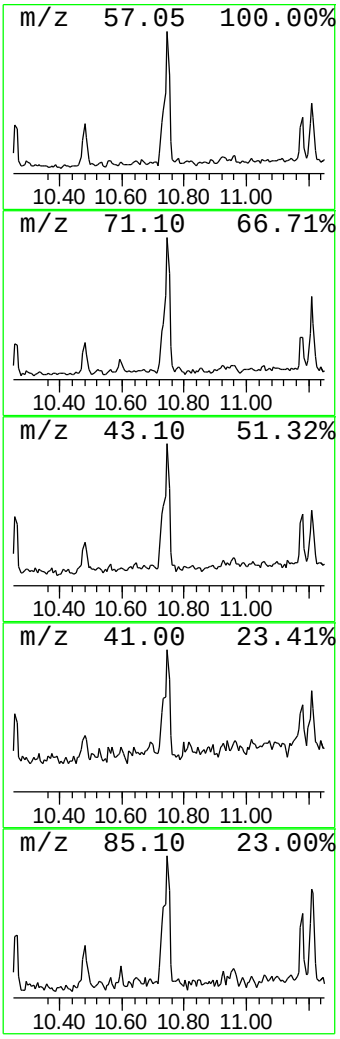
**********

Peak Number 4 Dodecane, 2,6,11-trimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.75 | 4.52 ng | 227305 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 90 |
| 2 | Undecane, 6-ethyl- | 184 | C13H28 | 017312-60-6 | 83 |
| 3 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 78 |
| 4 | Heptane, 3-ethyl-5-methyl- | 142 | C10H22 | 052896-90-9 | 64 |
| 5 | Octane, 3,5-dimethyl- | 142 | C10H22 | 015869-93-9 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

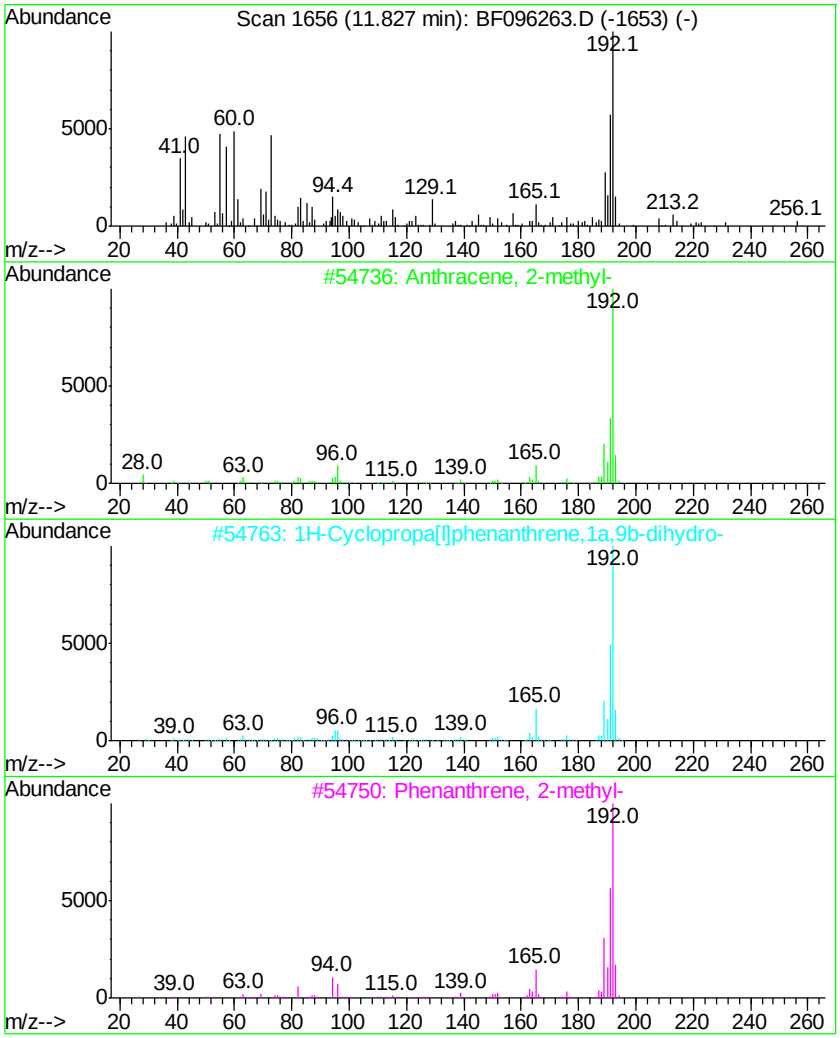
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

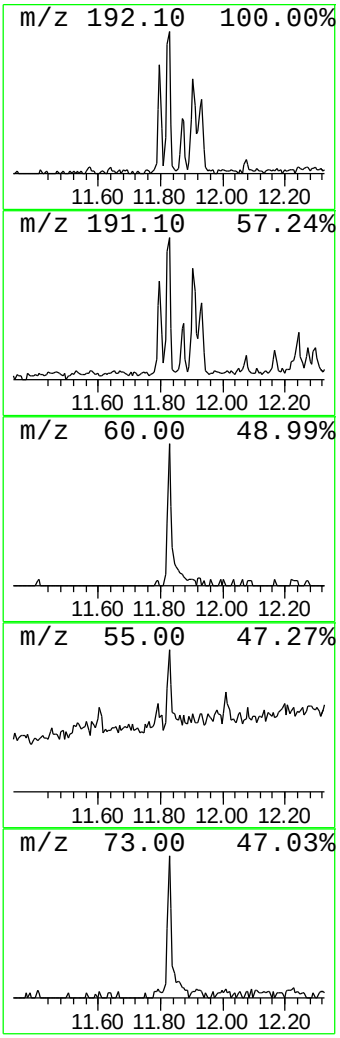
**********

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.83 | 2.99 ng | 150484 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 86 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 78 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 62 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 60 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 60 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

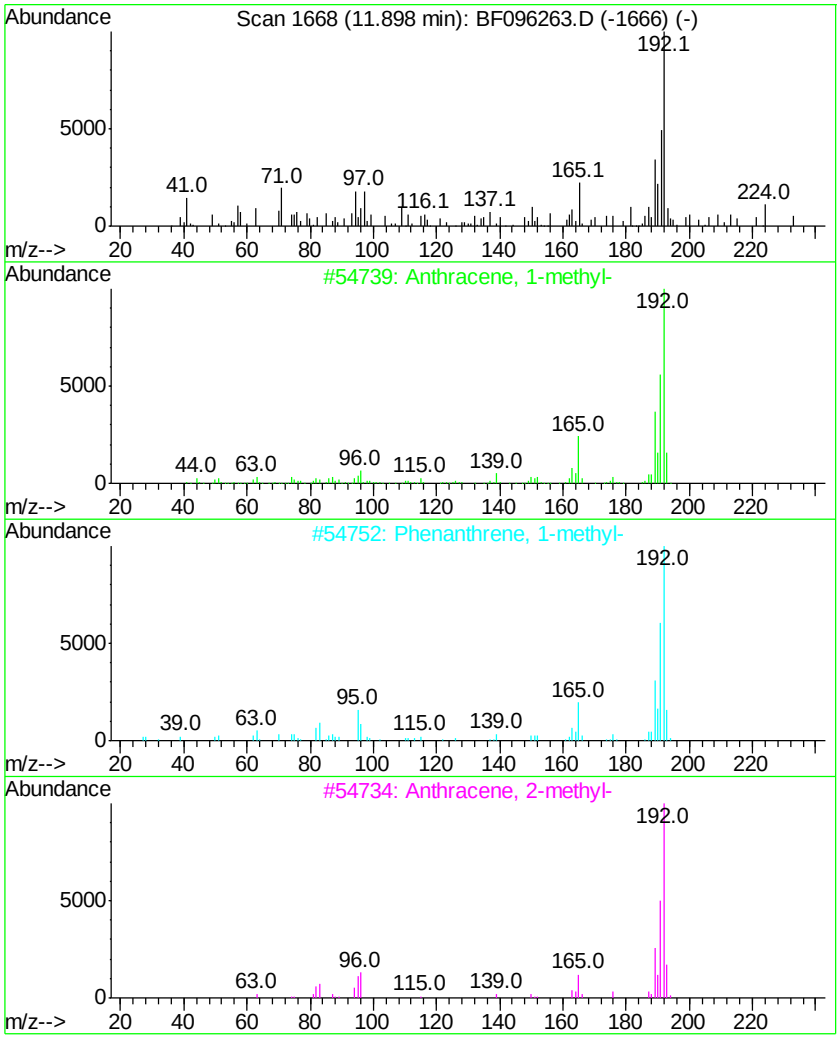
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

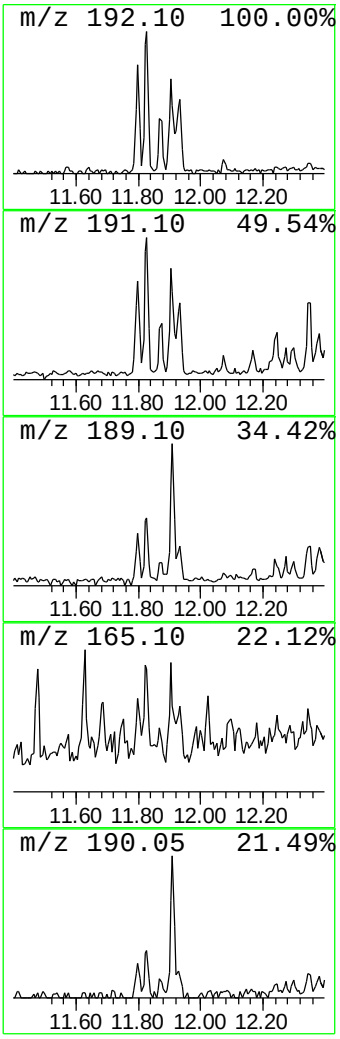
**********

Peak Number 6 Anthracene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.90 | 2.03 ng | 102326 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 55 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 55 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 55 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 53 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 49 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062817\
Data File : BF096263.D
Acq On : 28 Jun 2017 21:36
Operator : SJ/MA
Sample : I3852-16 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G-38-1.5-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.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 |
| 2-Pentanone, 4-hy... | 4.96 | 3.2 | ng | 144362 | 1 | 6.79 | 897824 | 20.0 |
| unknown6.55 | 6.55 | 16.2 | ng | 727241 | 1 | 6.79 | 897824 | 20.0 |
| Dodecane, 2,6,11-... | 10.75 | 4.5 | ng | 227305 | 4 | 11.30 | 1006350 | 20.0 |
| Anthracene, 2-met... | 11.83 | 3.0 | ng | 150484 | 4 | 11.30 | 1006350 | 20.0 |
| Anthracene, 1-met... | 11.90 | 2.0 | ng | 102326 | 4 | 11.30 | 1006350 | 20.0 |