LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

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-BF121417.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 | 4.998 | 493 | 495 | 507 | rBV | 75326 | 132466 | 1.03% | 0.150% |
| 2 | 5.404 | 561 | 564 | 583 | rBV | 1249045 | 1751274 | 13.66% | 1.987% |
| 3 | 6.428 | 734 | 738 | 757 | rBV | 1345684 | 1870320 | 14.59% | 2.122% |
| 4 | 6.557 | 757 | 760 | 766 | rVV | 1866857 | 1724290 | 13.45% | 1.956% |
| 5 | 6.787 | 796 | 799 | 814 | rBV | 969604 | 920636 | 7.18% | 1.045% |
| 6 | 6.939 | 822 | 825 | 840 | rVB | 1419157 | 1352779 | 10.55% | 1.535% |
| 7 | 7.357 | 892 | 896 | 913 | rBV | 939757 | 1197441 | 9.34% | 1.359% |
| 8 | 8.069 | 1014 | 1017 | 1019 | rVV | 1323626 | 1139606 | 8.89% | 1.293% |
| 9 | 8.092 | 1019 | 1021 | 1028 | rVB | 409696 | 446563 | 3.48% | 0.507% |
| 10 | 8.645 | 1112 | 1115 | 1119 | rVB | 195074 | 155499 | 1.21% | 0.176% |
| 11 | 8.781 | 1135 | 1138 | 1145 | rBV | 529028 | 479888 | 3.74% | 0.545% |
| 12 | 8.881 | 1150 | 1155 | 1161 | rVB | 599178 | 565508 | 4.41% | 0.642% |
| 13 | 9.139 | 1195 | 1199 | 1203 | rBV | 2113116 | 1761340 | 13.74% | 1.999% |
| 14 | 9.210 | 1208 | 1211 | 1214 | rBV | 402731 | 325034 | 2.53% | 0.369% |
| 15 | 9.410 | 1240 | 1245 | 1249 | rBV | 363284 | 479357 | 3.74% | 0.544% |
| 16 | 9.480 | 1253 | 1257 | 1260 | rVV | 494331 | 566048 | 4.41% | 0.642% |
| 17 | 9.510 | 1260 | 1262 | 1264 | rVV | 318317 | 334116 | 2.61% | 0.379% |
| 18 | 9.533 | 1264 | 1266 | 1273 | rVB3 | 210151 | 365811 | 2.85% | 0.415% |
| 19 | 9.598 | 1273 | 1277 | 1282 | rBV2 | 261676 | 314288 | 2.45% | 0.357% |
| 20 | 9.686 | 1288 | 1292 | 1295 | rBV2 | 388864 | 367133 | 2.86% | 0.417% |
| 21 | 9.739 | 1299 | 1301 | 1305 | rVB | 542887 | 410883 | 3.20% | 0.466% |
| 22 | 9.822 | 1312 | 1315 | 1318 | rVB2 | 1221150 | 1013855 | 7.91% | 1.150% |
| 23 | 9.857 | 1318 | 1321 | 1324 | rVB | 662738 | 581971 | 4.54% | 0.660% |
| 24 | 9.928 | 1329 | 1333 | 1337 | rBV3 | 126387 | 192030 | 1.50% | 0.218% |
| 25 | 9.975 | 1337 | 1341 | 1343 | rBV3 | 116494 | 161956 | 1.26% | 0.184% |
| 26 | 10.028 | 1347 | 1350 | 1353 | rVB2 | 557174 | 528397 | 4.12% | 0.600% |
| 27 | 10.063 | 1353 | 1356 | 1360 | rVB3 | 275390 | 266087 | 2.08% | 0.302% |
| 28 | 10.139 | 1365 | 1369 | 1372 | rBV | 228661 | 275989 | 2.15% | 0.313% |
| 29 | 10.169 | 1372 | 1374 | 1380 | rVB2 | 183865 | 181320 | 1.41% | 0.206% |
| 30 | 10.239 | 1380 | 1386 | 1390 | rBV2 | 640495 | 757644 | 5.91% | 0.860% |
| 31 | 10.375 | 1405 | 1409 | 1415 | rVB | 1009807 | 1009164 | 7.87% | 1.145% |
| 32 | 10.457 | 1415 | 1423 | 1425 | rBV3 | 347750 | 545992 | 4.26% | 0.620% |
| 33 | 10.527 | 1433 | 1435 | 1439 | rVB | 195884 | 202101 | 1.58% | 0.229% |
| 34 | 10.616 | 1446 | 1450 | 1456 | rBV2 | 987398 | 1089781 | 8.50% | 1.237% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

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-BF121417.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.710 | 1463 | 1466 | 1473 | rBV2 | 528591 | 691187 | 5.39% | 0.784% |
| 36 | 10.922 | 1496 | 1502 | 1505 | rBV2 | 340818 | 467437 | 3.65% | 0.530% |
| 37 | 10.951 | 1505 | 1507 | 1509 | rVV | 222903 | 189394 | 1.48% | 0.215% |
| 38 | 11.004 | 1513 | 1516 | 1518 | rVB2 | 224991 | 201233 | 1.57% | 0.228% |
| 39 | 11.051 | 1518 | 1524 | 1526 | rBV3 | 137281 | 255165 | 1.99% | 0.290% |
| 40 | 11.157 | 1540 | 1542 | 1545 | rBV | 486758 | 460781 | 3.59% | 0.523% |
| 41 | 11.186 | 1545 | 1547 | 1549 | rVV | 168529 | 166495 | 1.30% | 0.189% |
| 42 | 11.210 | 1549 | 1551 | 1556 | rVB | 444785 | 384692 | 3.00% | 0.436% |
| 43 | 11.316 | 1565 | 1569 | 1571 | rBV | 1108134 | 1120973 | 8.74% | 1.272% |
| 44 | 11.345 | 1571 | 1574 | 1577 | rVB | 3195018 | 3010934 | 23.48% | 3.416% |
| 45 | 11.392 | 1577 | 1582 | 1586 | rBV | 1271170 | 1101257 | 8.59% | 1.250% |
| 46 | 11.557 | 1605 | 1610 | 1613 | rBV2 | 267789 | 364232 | 2.84% | 0.413% |
| 47 | 11.586 | 1613 | 1615 | 1617 | rBV | 310771 | 225308 | 1.76% | 0.256% |
| 48 | 11.645 | 1623 | 1625 | 1629 | rVB | 205520 | 185924 | 1.45% | 0.211% |
| 49 | 11.698 | 1629 | 1634 | 1637 | rVV | 4899175 | 5205439 | 40.60% | 5.906% |
| 50 | 11.727 | 1637 | 1639 | 1644 | rVB | 110407 | 138031 | 1.08% | 0.157% |
| 51 | 11.816 | 1651 | 1654 | 1657 | rBV | 790452 | 758129 | 5.91% | 0.860% |
| 52 | 11.845 | 1657 | 1659 | 1663 | rVB | 971087 | 810749 | 6.32% | 0.920% |
| 53 | 11.892 | 1664 | 1667 | 1670 | rBV | 392783 | 380143 | 2.96% | 0.431% |
| 54 | 11.927 | 1670 | 1673 | 1676 | rBV2 | 1177378 | 1325221 | 10.34% | 1.504% |
| 55 | 11.951 | 1676 | 1677 | 1681 | rVB | 529212 | 347639 | 2.71% | 0.394% |
| 56 | 11.992 | 1681 | 1684 | 1686 | rBV | 294664 | 248840 | 1.94% | 0.282% |
| 57 | 12.110 | 1699 | 1704 | 1708 | rBV2 | 457521 | 474656 | 3.70% | 0.539% |
| 58 | 12.145 | 1708 | 1710 | 1715 | rVB3 | 110970 | 133709 | 1.04% | 0.152% |
| 59 | 12.292 | 1732 | 1735 | 1737 | rVB | 215012 | 150062 | 1.17% | 0.170% |
| 60 | 12.316 | 1737 | 1739 | 1742 | rVB2 | 174116 | 155147 | 1.21% | 0.176% |
| 61 | 12.398 | 1744 | 1753 | 1755 | rBV2 | 5410823 | 12822117 | 100.00% | 14.549% |
| 62 | 12.486 | 1764 | 1768 | 1771 | rVB | 3034938 | 2762391 | 21.54% | 3.134% |
| 63 | 12.539 | 1772 | 1777 | 1780 | rBV | 3380652 | 3635706 | 28.35% | 4.125% |
| 64 | 12.686 | 1800 | 1802 | 1805 | rBV | 274879 | 276582 | 2.16% | 0.314% |
| 65 | 12.774 | 1810 | 1817 | 1822 | rVV2 | 2804528 | 4006524 | 31.25% | 4.546% |
| 66 | 12.816 | 1822 | 1824 | 1829 | rVB | 260226 | 260407 | 2.03% | 0.295% |
| 67 | 12.898 | 1834 | 1838 | 1841 | rBV2 | 1441741 | 1254615 | 9.78% | 1.424% |
| 68 | 12.921 | 1841 | 1842 | 1848 | rVB2 | 101162 | 134445 | 1.05% | 0.153% |
| 69 | 12.986 | 1848 | 1853 | 1858 | rBV4 | 354397 | 641821 | 5.01% | 0.728% |
| 70 | 13.092 | 1869 | 1871 | 1876 | rVV | 799844 | 867621 | 6.77% | 0.984% |
| 71 | 13.157 | 1880 | 1882 | 1885 | rVB | 708668 | 619841 | 4.83% | 0.703% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

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-BF121417.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.204 | 1885 | 1890 | 1896 | rVB3 | 658531 | 919744 | 7.17% | 1.044% |
| 73 | 13.292 | 1902 | 1905 | 1907 | rBV | 396290 | 346232 | 2.70% | 0.393% |
| 74 | 13.321 | 1907 | 1910 | 1913 | rBV | 416116 | 335322 | 2.62% | 0.380% |
| 75 | 13.451 | 1929 | 1932 | 1936 | rBV4 | 90034 | 163077 | 1.27% | 0.185% |
| 76 | 13.574 | 1950 | 1953 | 1956 | rBV | 172387 | 221642 | 1.73% | 0.251% |
| 77 | 13.716 | 1975 | 1977 | 1979 | rVV | 378781 | 388247 | 3.03% | 0.441% |
| 78 | 13.733 | 1979 | 1980 | 1983 | rVV | 390495 | 295832 | 2.31% | 0.336% |
| 79 | 13.780 | 1983 | 1988 | 1992 | rVV3 | 306109 | 611376 | 4.77% | 0.694% |
| 80 | 13.821 | 1993 | 1995 | 2000 | rVB4 | 159899 | 214358 | 1.67% | 0.243% |
| 81 | 13.874 | 2000 | 2004 | 2012 | rBV2 | 359379 | 532922 | 4.16% | 0.605% |
| 82 | 13.957 | 2013 | 2018 | 2022 | rBV2 | 1975388 | 3067685 | 23.92% | 3.481% |
| 83 | 13.992 | 2022 | 2024 | 2030 | rVB | 1698269 | 1544468 | 12.05% | 1.752% |
| 84 | 14.074 | 2035 | 2038 | 2040 | rBV | 327935 | 285500 | 2.23% | 0.324% |
| 85 | 14.127 | 2044 | 2047 | 2051 | rBV2 | 184165 | 183909 | 1.43% | 0.209% |
| 86 | 14.186 | 2055 | 2057 | 2061 | rVB2 | 112112 | 167353 | 1.31% | 0.190% |
| 87 | 14.351 | 2080 | 2085 | 2088 | rVV | 541618 | 594431 | 4.64% | 0.674% |
| 88 | 14.386 | 2088 | 2091 | 2095 | rBV | 258642 | 247239 | 1.93% | 0.281% |
| 89 | 14.451 | 2100 | 2102 | 2104 | rVB2 | 184440 | 139853 | 1.09% | 0.159% |
| 90 | 14.480 | 2104 | 2107 | 2108 | rBV | 257686 | 232031 | 1.81% | 0.263% |
| 91 | 14.821 | 2161 | 2165 | 2167 | rBV | 205551 | 276372 | 2.16% | 0.314% |
| 92 | 15.010 | 2192 | 2197 | 2199 | rBV | 1285420 | 1778477 | 13.87% | 2.018% |
| 93 | 15.115 | 2211 | 2215 | 2220 | rVB | 315330 | 357504 | 2.79% | 0.406% |
| 94 | 15.310 | 2243 | 2248 | 2254 | rBV | 748630 | 930863 | 7.26% | 1.056% |
| 95 | 15.374 | 2254 | 2259 | 2265 | rVV | 1150240 | 1566163 | 12.21% | 1.777% |
| 96 | 15.433 | 2265 | 2269 | 2271 | rVV | 570950 | 708753 | 5.53% | 0.804% |
| 97 | 15.462 | 2271 | 2274 | 2280 | rVB2 | 346501 | 478130 | 3.73% | 0.543% |
| 98 | 15.992 | 2361 | 2364 | 2369 | rBV2 | 108095 | 138676 | 1.08% | 0.157% |
| 99 | 16.904 | 2514 | 2519 | 2526 | rVB2 | 465712 | 904465 | 7.05% | 1.026% |
| 100 | 17.351 | 2590 | 2595 | 2607 | rVB | 359983 | 799608 | 6.24% | 0.907% |

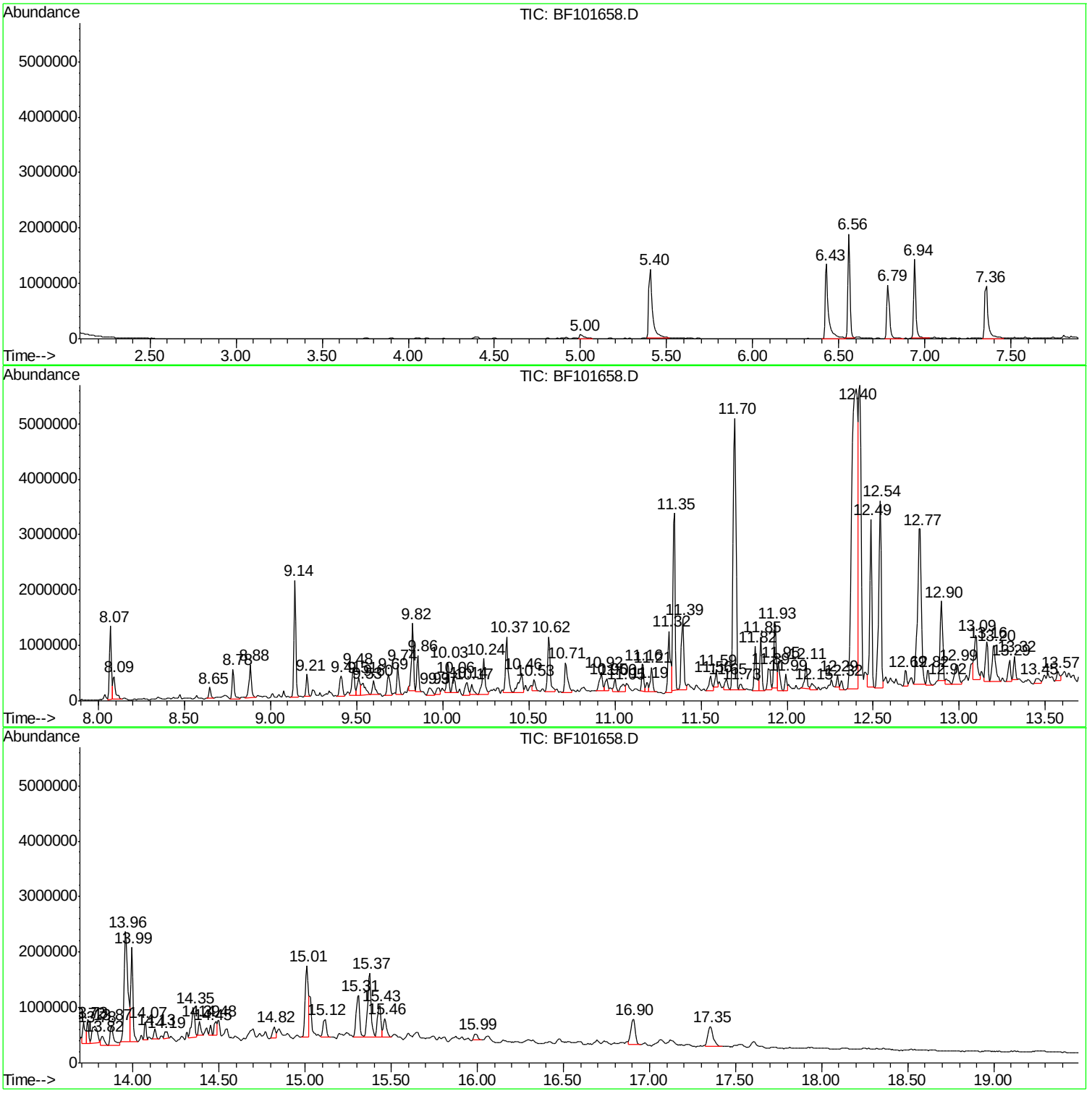
Sum of corrected areas: 88131646

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

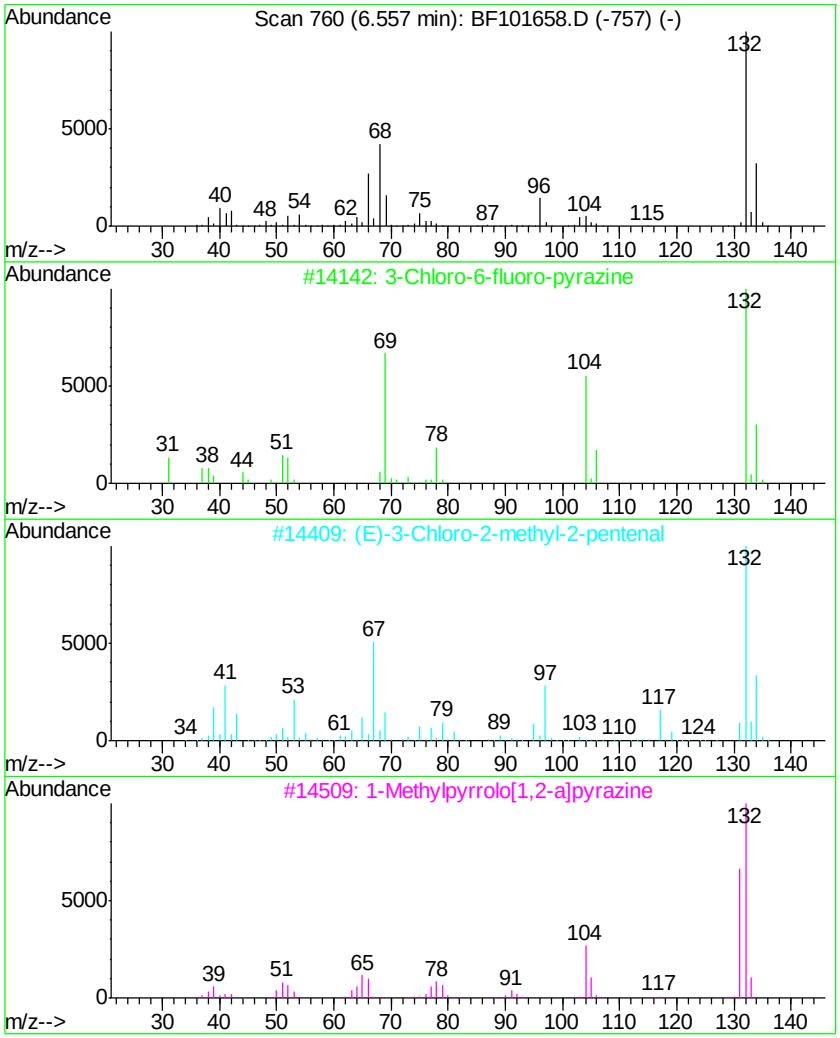
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

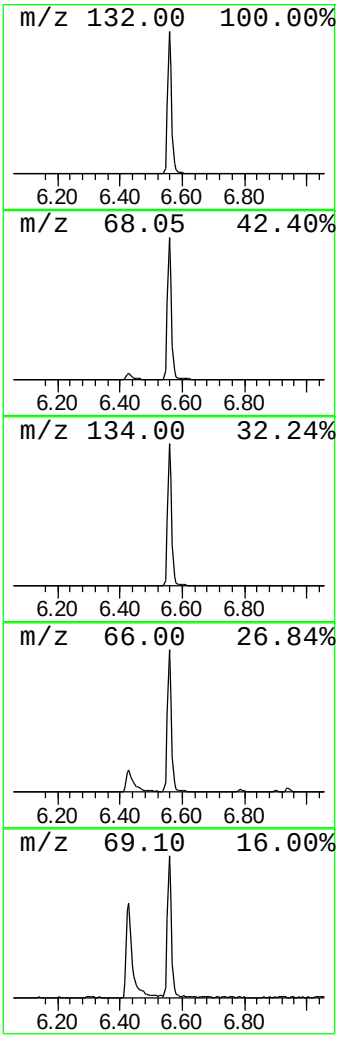
**********

Peak Number 1 unknown6.56 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.56 | 37.46 ng | 1724290 | 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 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 3 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

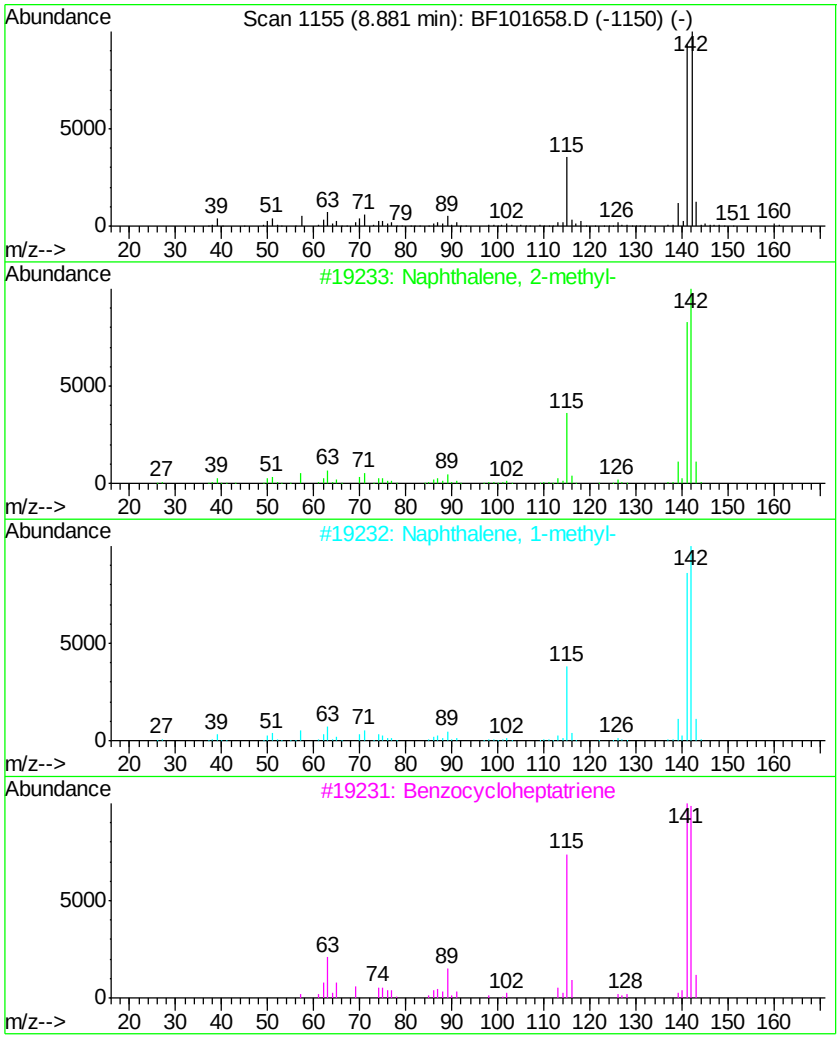
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

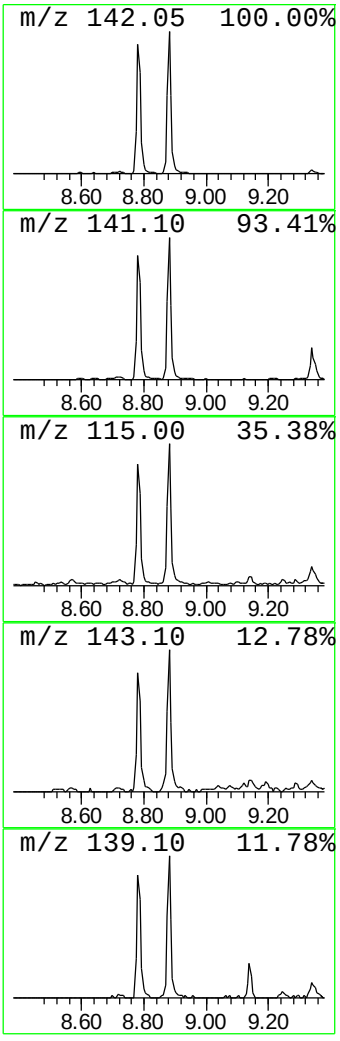
**********

Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.88 | 9.92 ng | 565508 | Naphthalene-d8 | 8.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 94 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 91 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

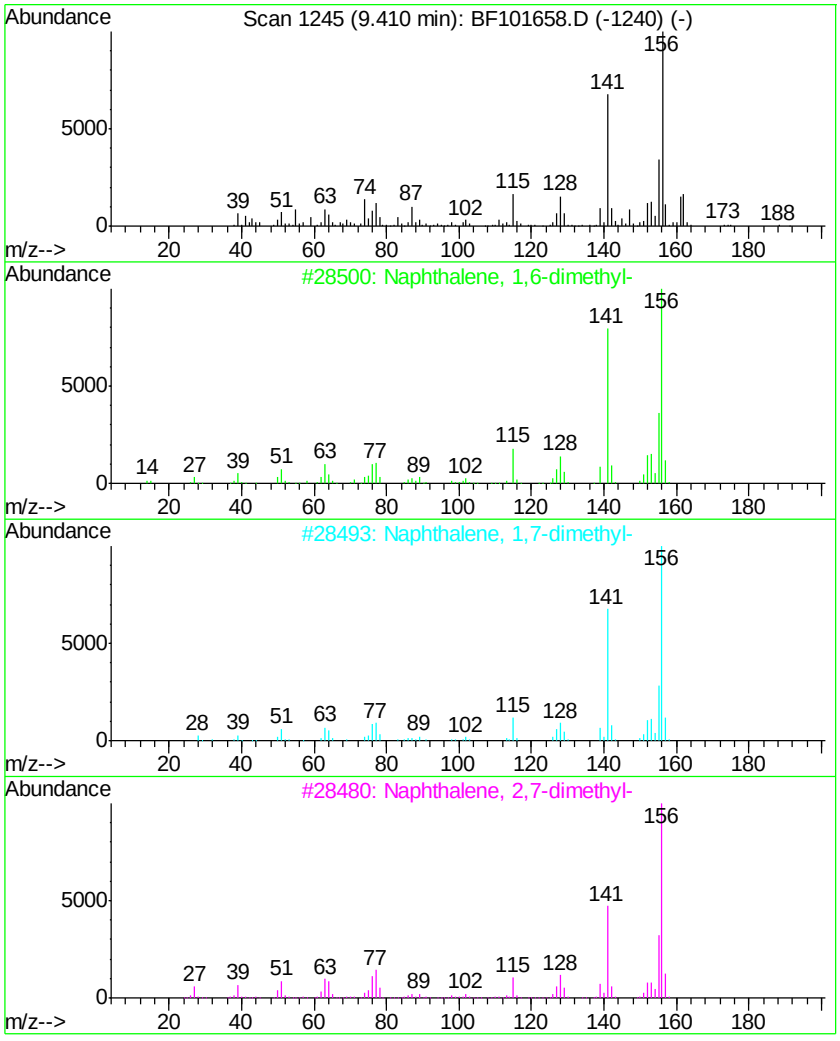
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

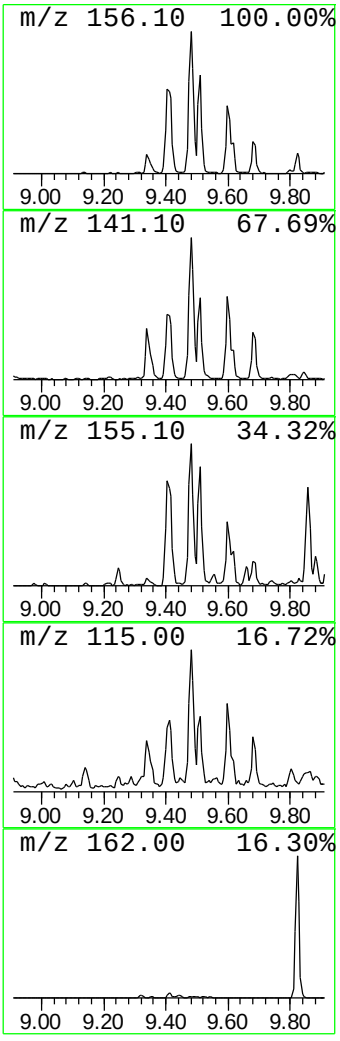
**********

Peak Number 4 Naphthalene, 1,6-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.41 | 9.46 ng | 479357 | Acenaphthene-d10 | 9.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

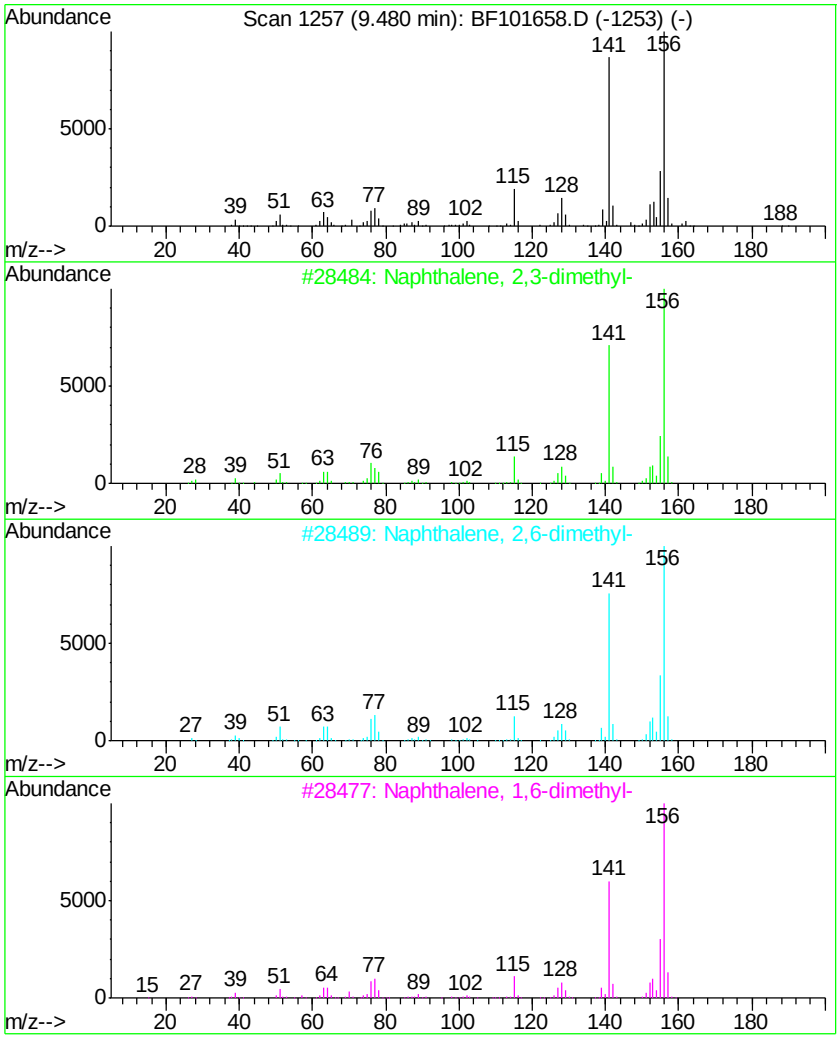
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

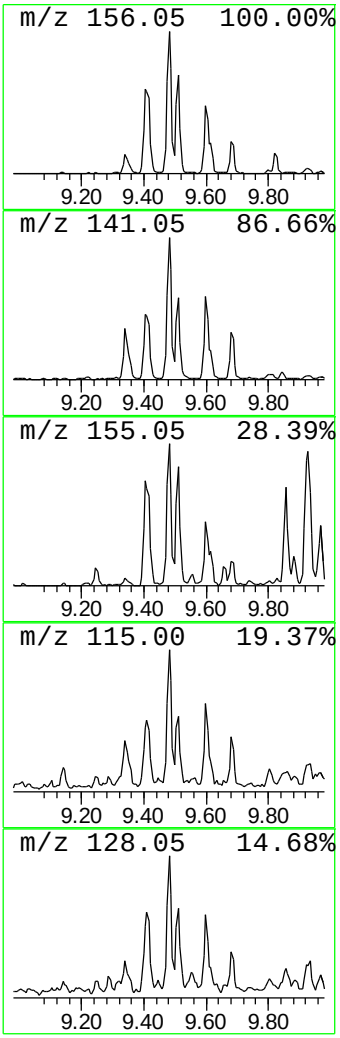
**********

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.48 | 11.17 ng | 566048 | Acenaphthene-d10 | 9.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

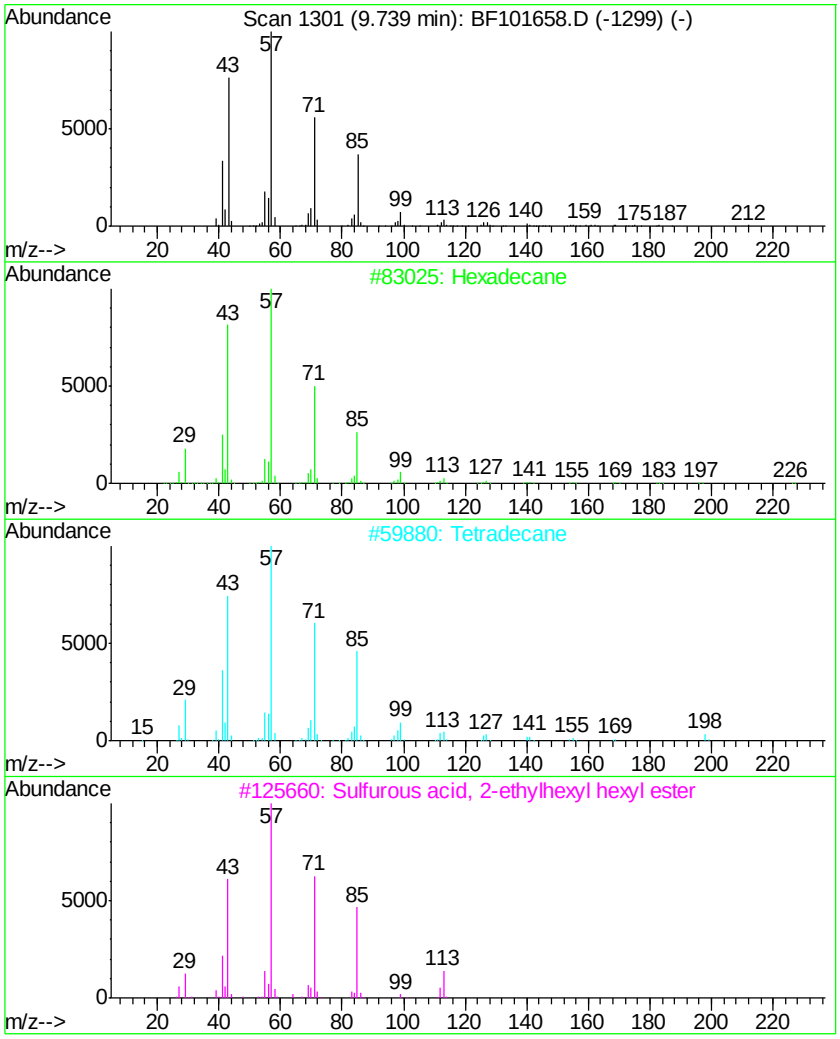
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

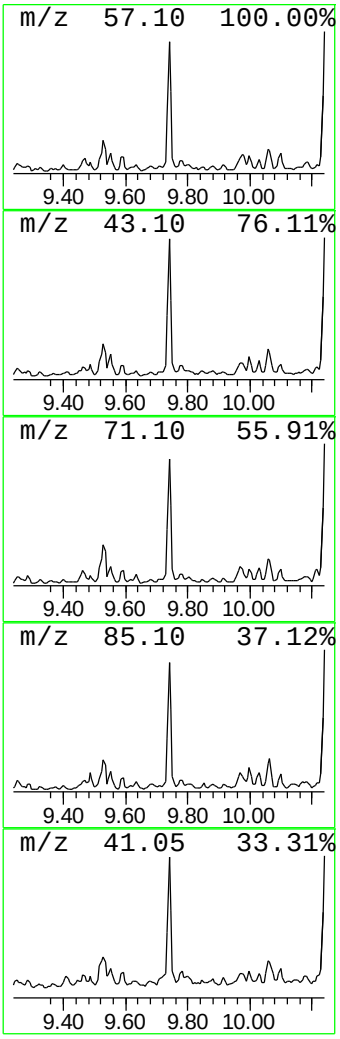
**********

Peak Number 6 Hexadecane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.74 | 8.11 ng | 410883 | Acenaphthene-d10 | 9.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 86 |
| 4 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 81 |
| 5 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

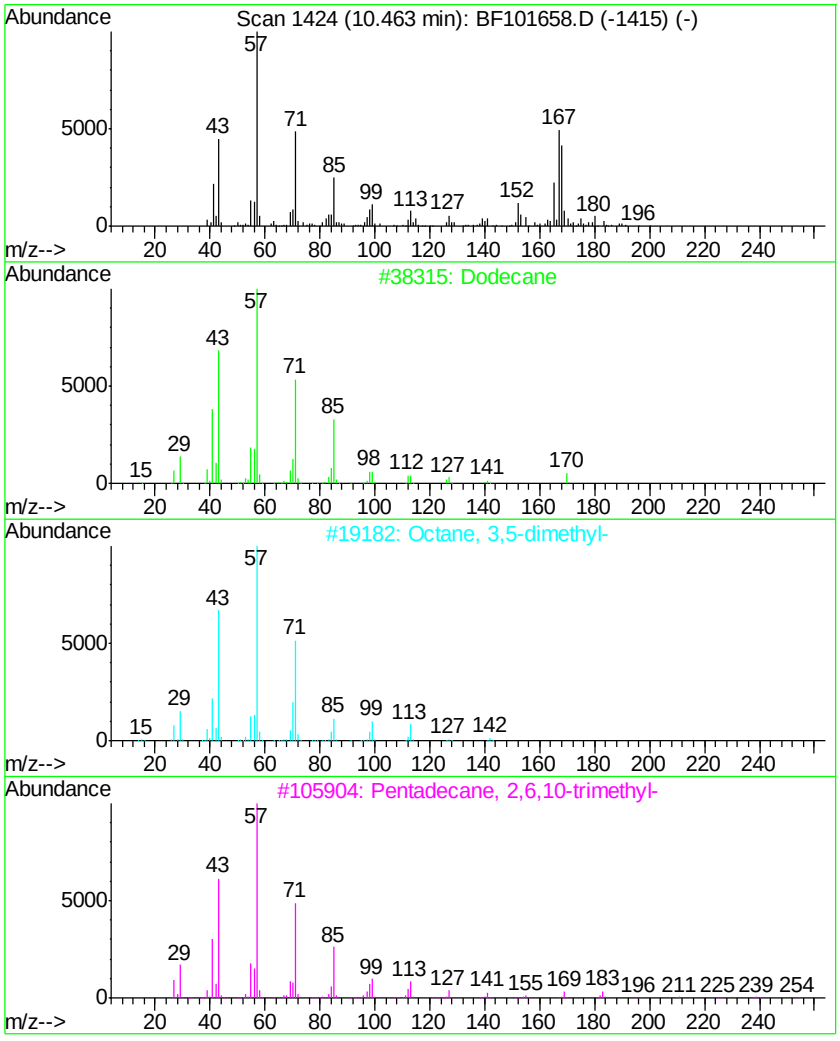
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

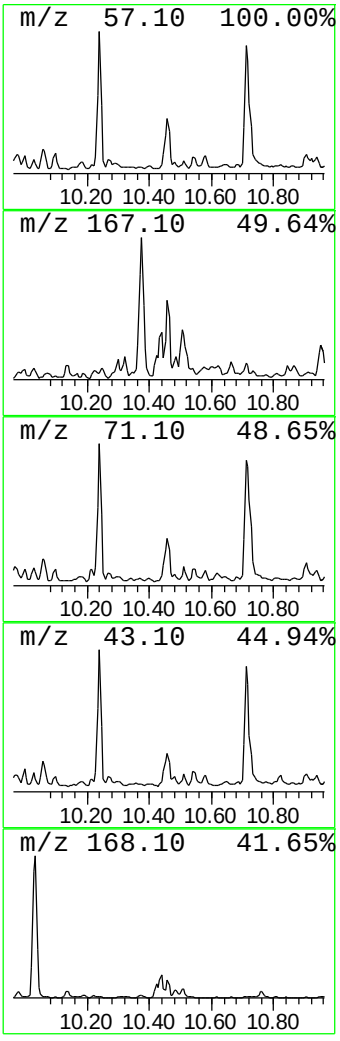
**********

Peak Number 8 unknown10.46 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.46 | 10.77 ng | 545992 | Acenaphthene-d10 | 9.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 20 |
| 2 | Octane, 3,5-dimethyl- | 142 | C10H22 | 015869-93-9 | 15 |
| 3 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 11 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 11 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 11 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

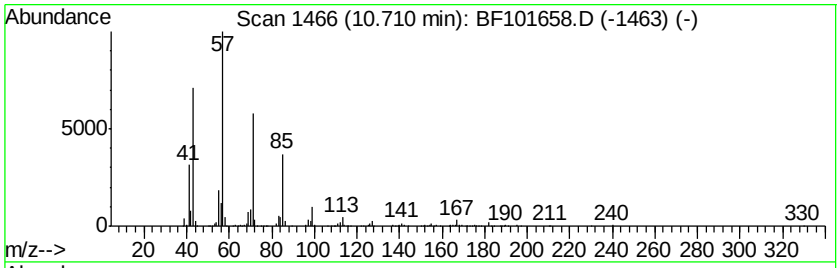
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

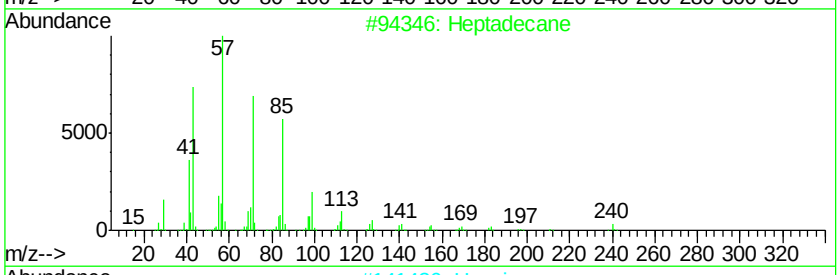
**********

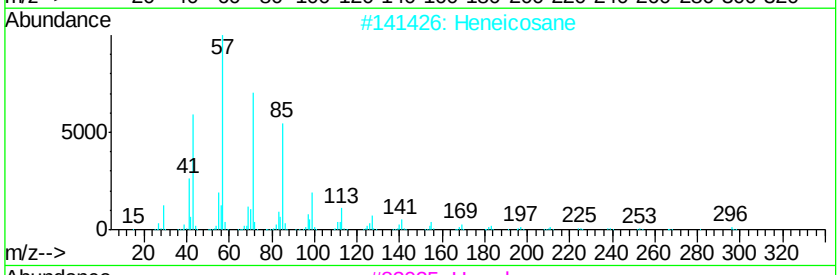
Peak Number 9 Heptadecane Concentration Rank 11

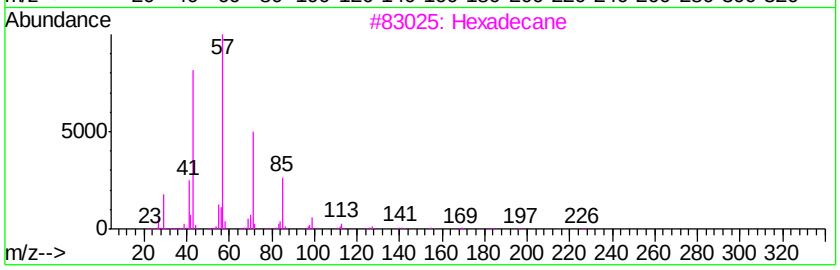
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.71 | 12.33 ng | 691187 | Phenanthrene-d10 | 11.32 |

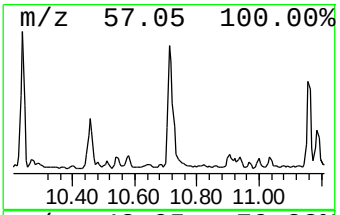
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 95 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 4 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 86 |
| 5 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 78 |

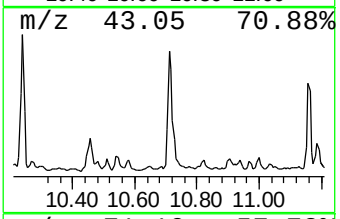


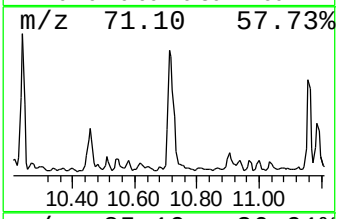



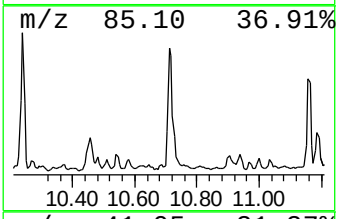



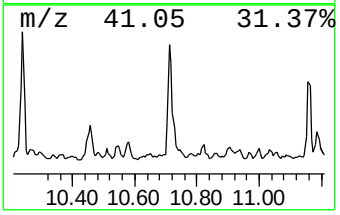



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

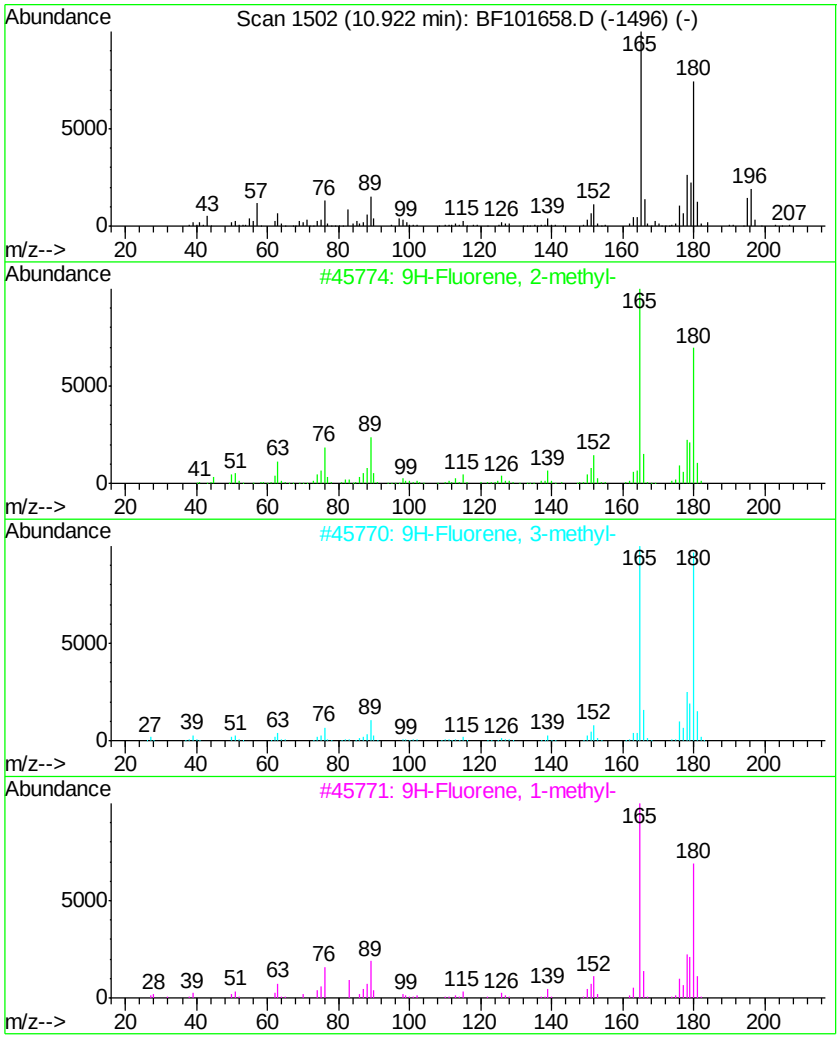
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

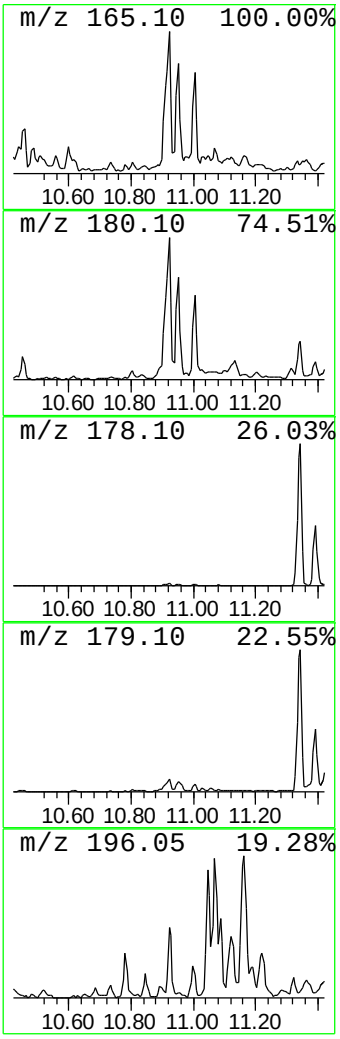
**********

Peak Number 10 9H-Fluorene, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.92 | 8.34 ng | 467437 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 97 |
| 2 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 95 |
| 3 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 93 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 93 |
| 5 | 4a,9a-Methano-9H-fluorene | 180 | C14H12 | 019540-84-2 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

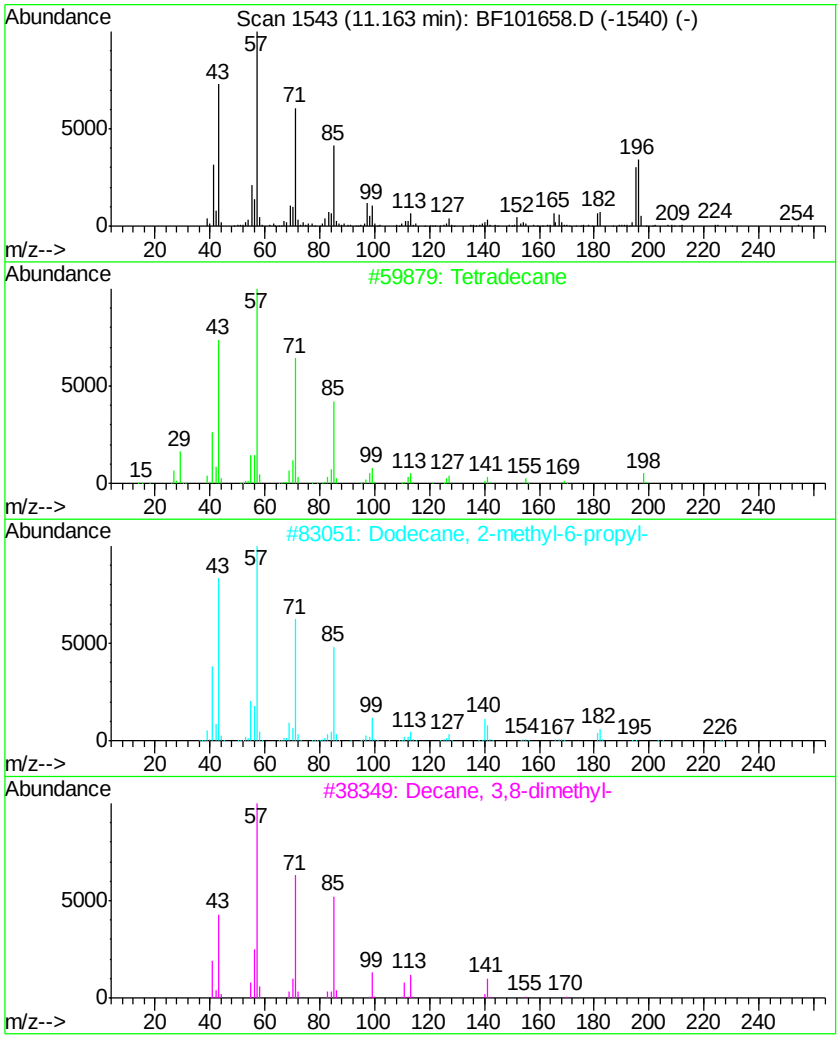
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

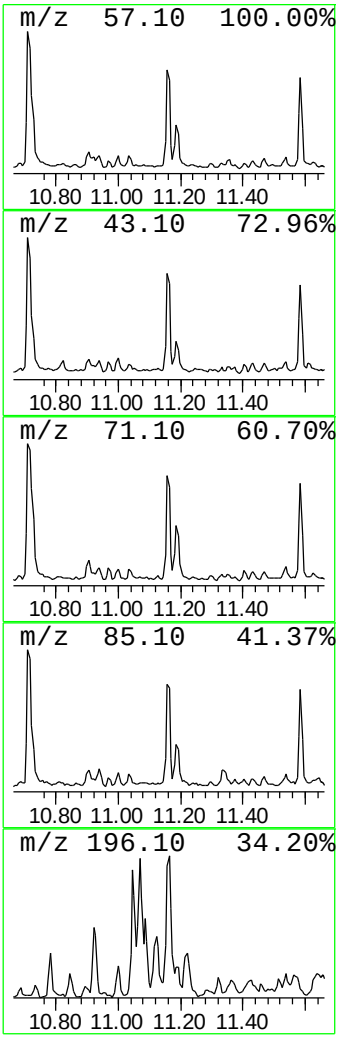
**********

Peak Number 11 Tetradecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.16 | 8.22 ng | 460781 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 2 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 58 |
| 3 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 53 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 52 |
| 5 | Undecane, 3-methyl- | 170 | C12H26 | 001002-43-3 | 52 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

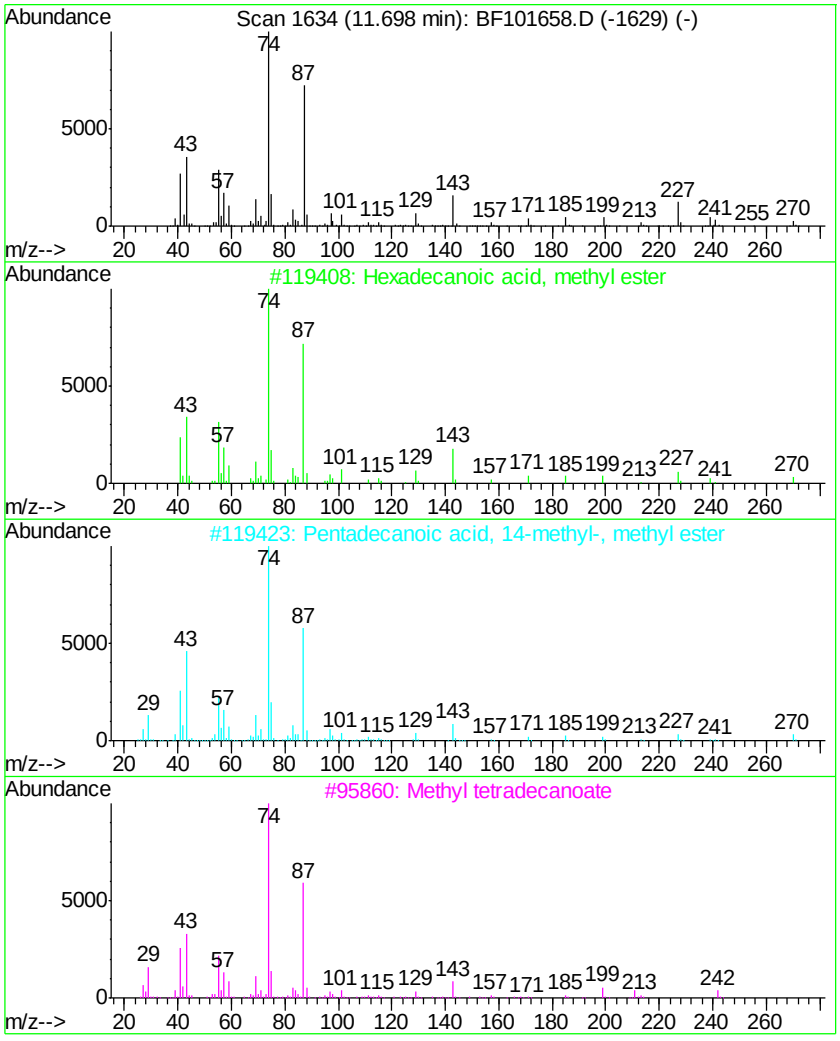
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

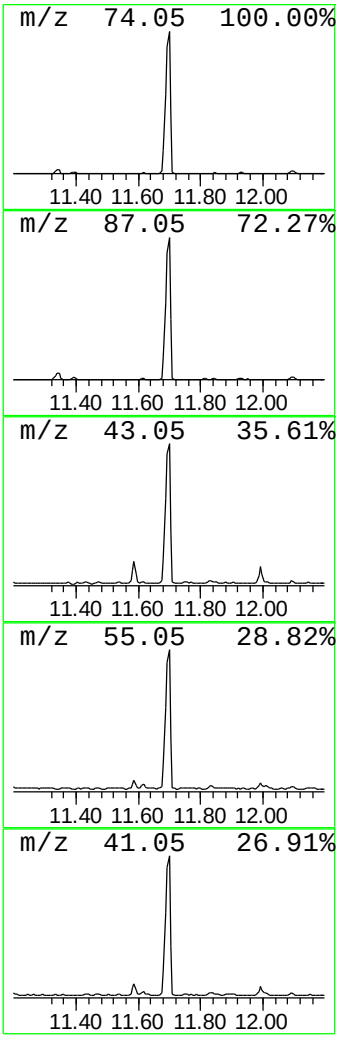
**********

Peak Number 12 Hexadecanoic acid, methyl e... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.70 | 92.87 ng | 5205440 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, methyl ester | 270 | C17H34O2 | 000112-39-0 | 98 |
| 2 | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 96 |
| 3 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 91 |
| 4 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 89 |
| 5 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

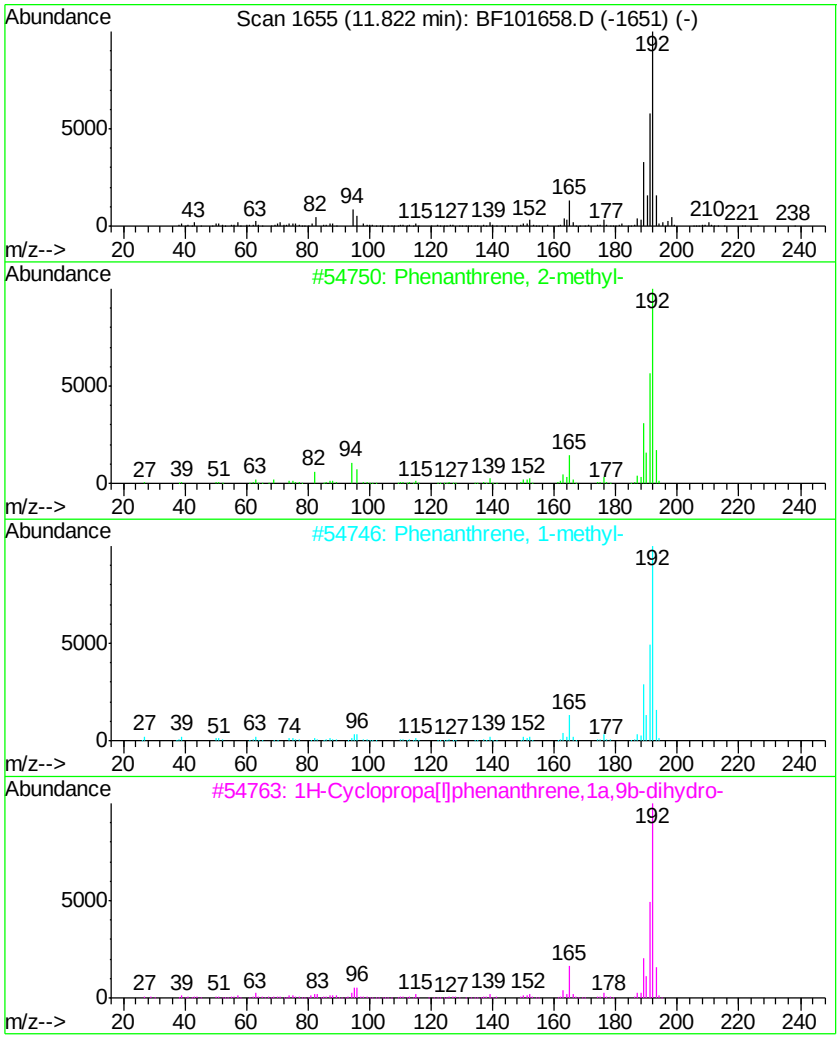
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

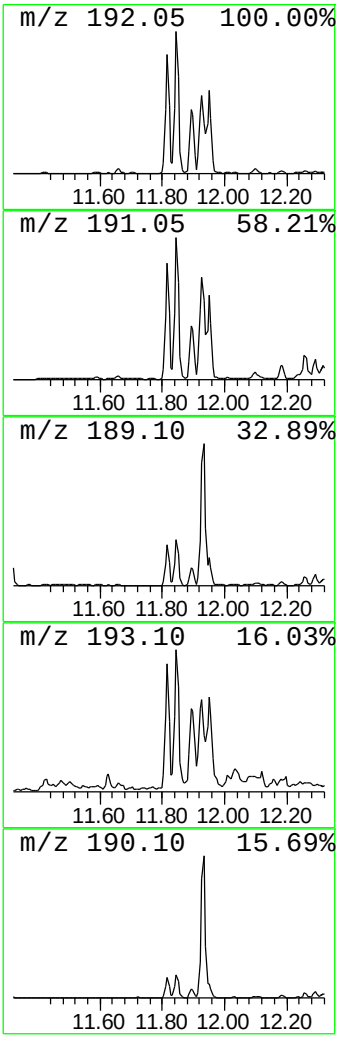
**********

Peak Number 13 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.82 | 13.53 ng | 758129 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 95 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

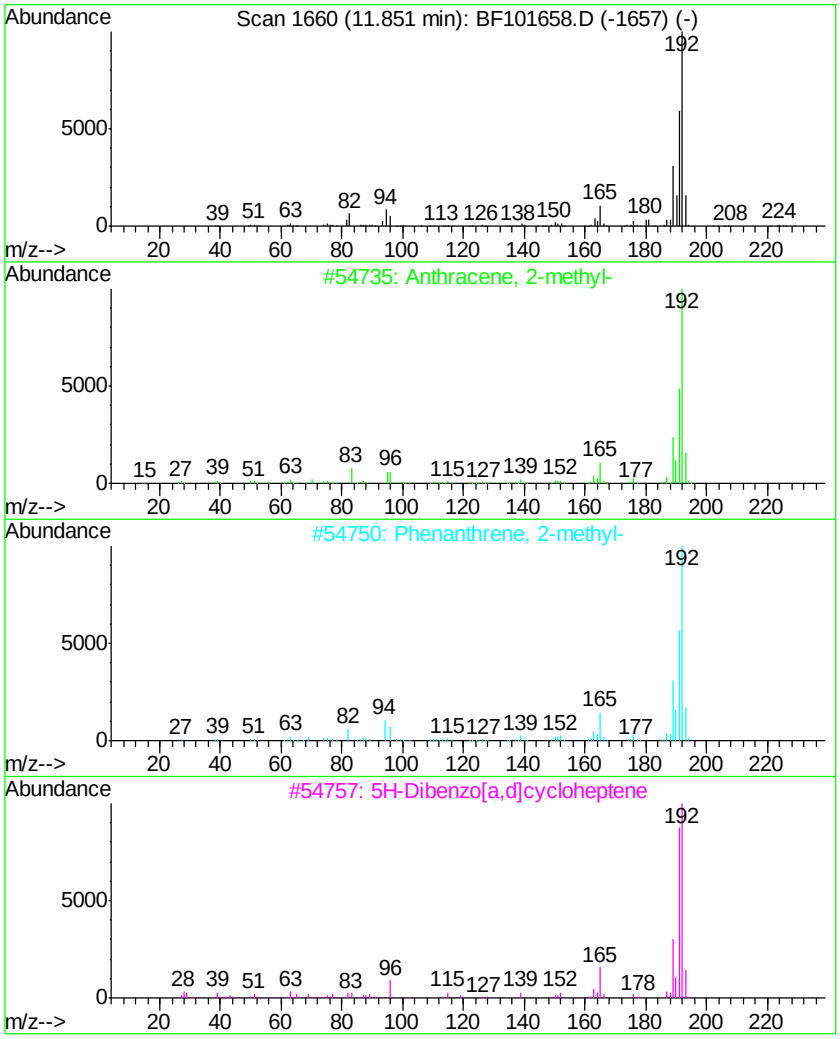
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

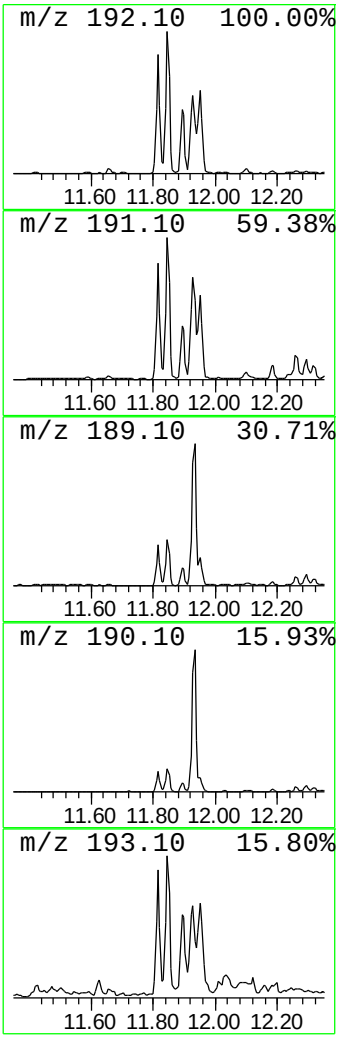
**********

Peak Number 14 Anthracene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 14.47 ng | 810749 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 96 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

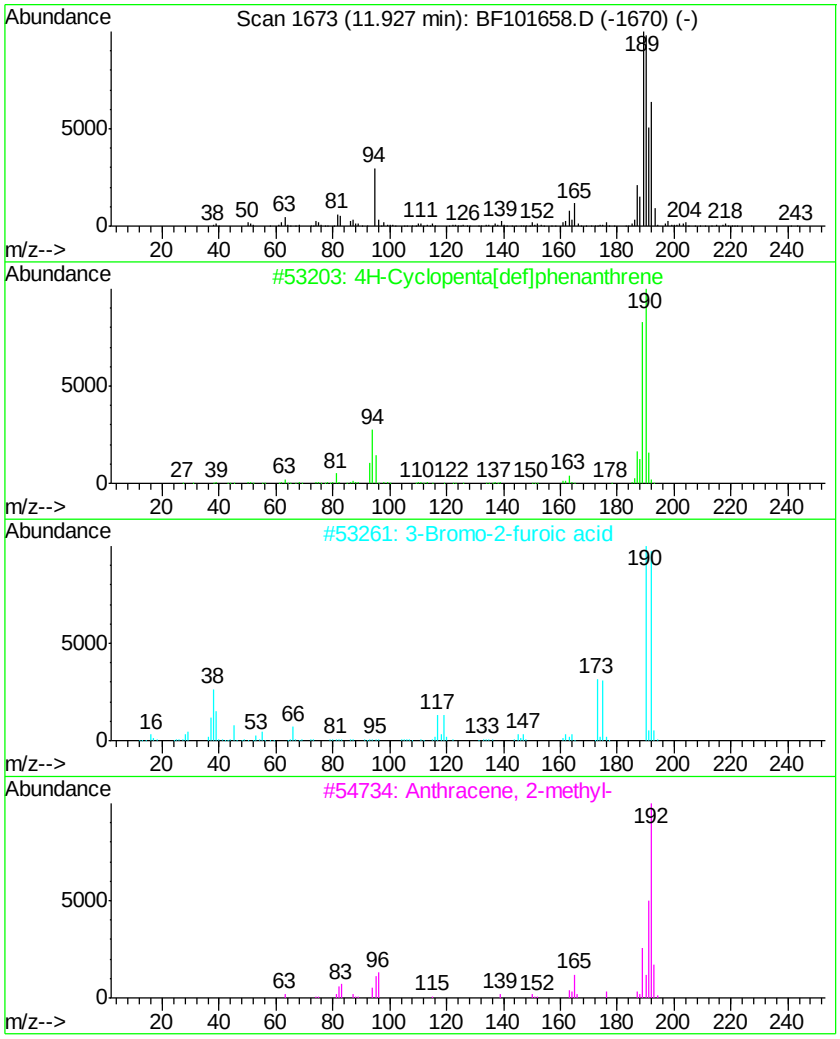
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

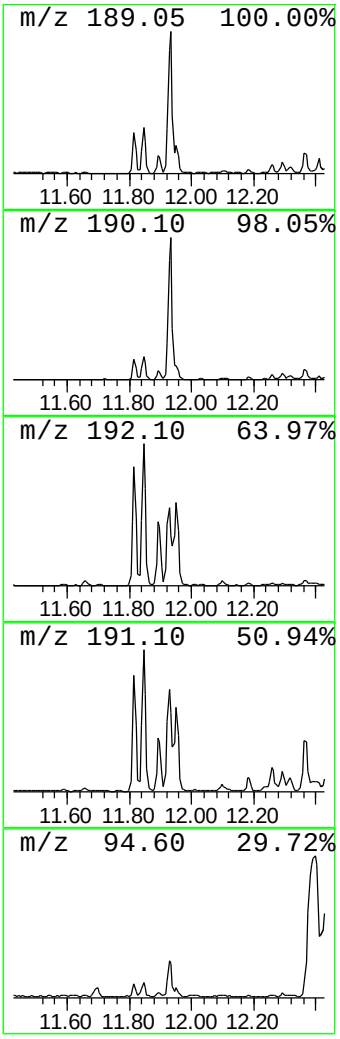
**********

Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.93 | 23.64 ng | 1325220 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | 3-Bromo-2-furoic acid | 190 | C5H3BrO3 | 014903-90-3 | 27 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 18 |
| 4 | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12 | 027410-55-5 | 18 |
| 5 | 1a,9b-Dihydro-1H-cyclopropa[a]an... | 192 | C15H12 | 006109-24-6 | 18 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

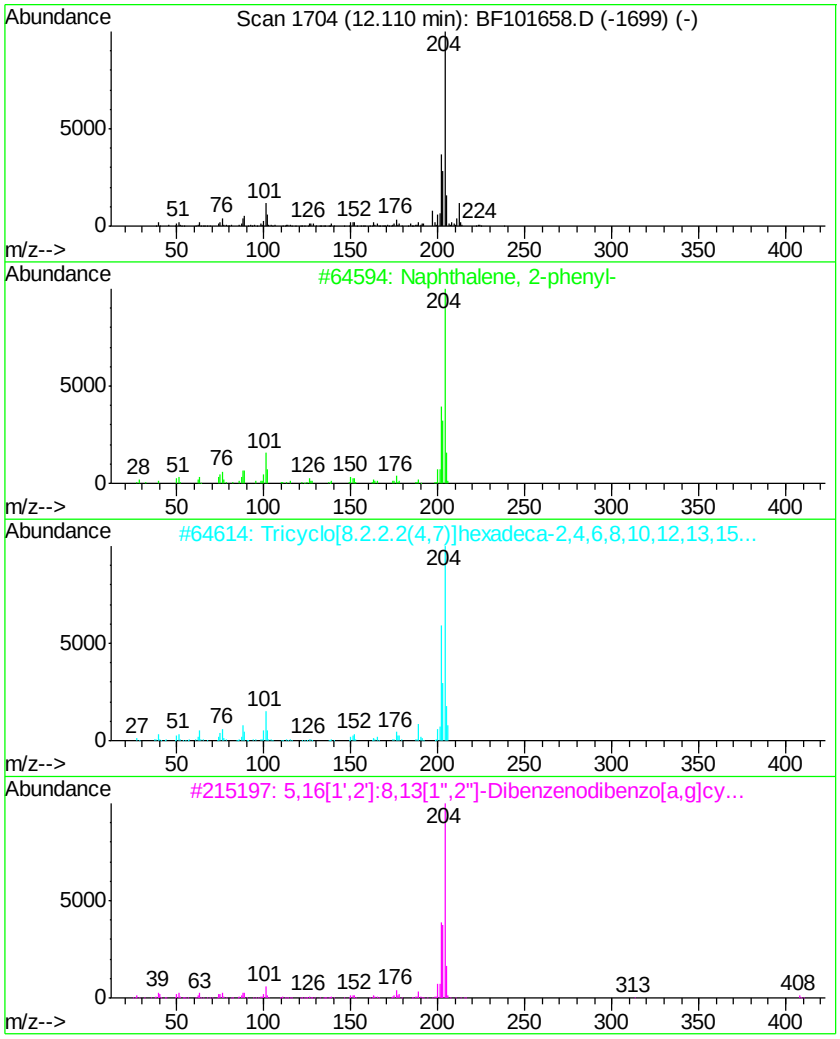
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

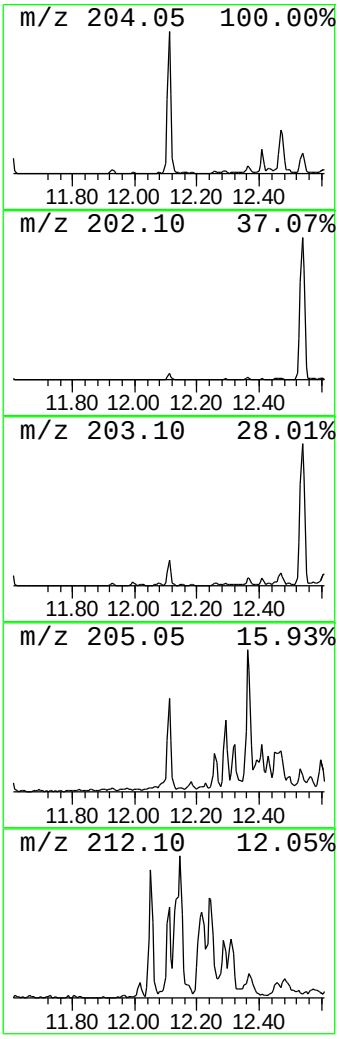
**********

Peak Number 16 Naphthalene, 2-phenyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.11 | 8.47 ng | 474656 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 96 |
| 2 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 64 |
| 3 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 59 |
| 4 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 58 |
| 5 | Acephenanthrylene, 4,5-dihydro- | 204 | C16H12 | 006232-48-0 | 53 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

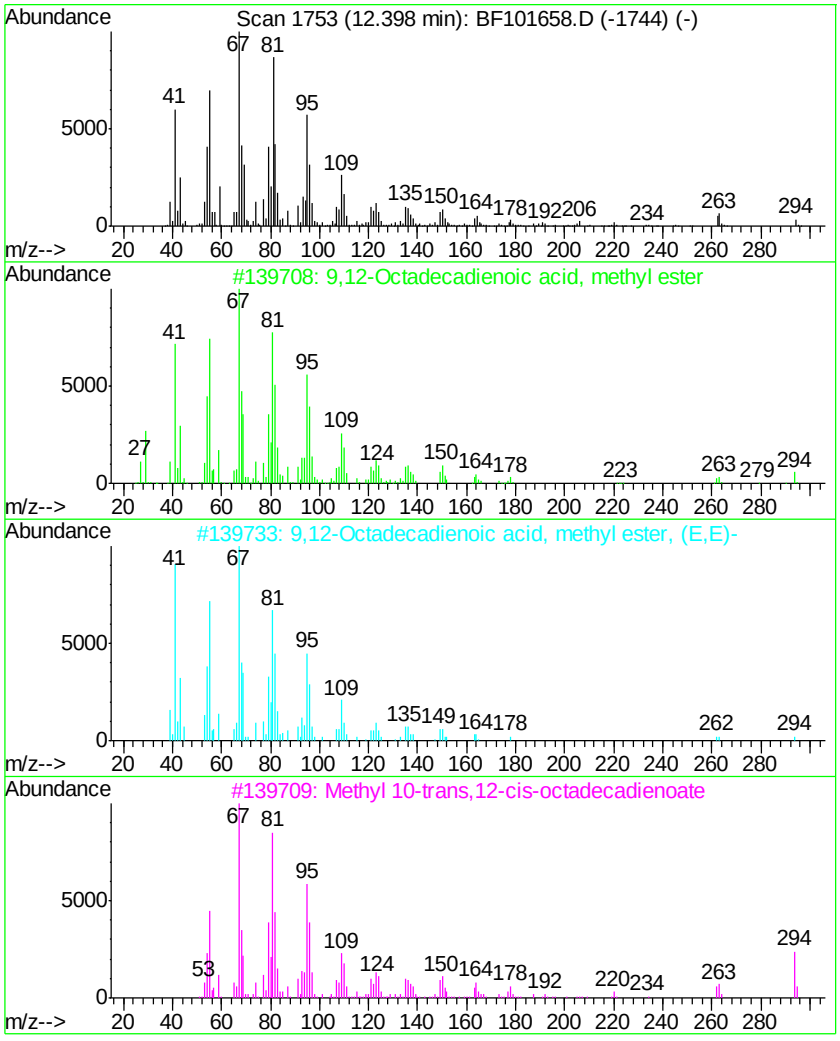
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

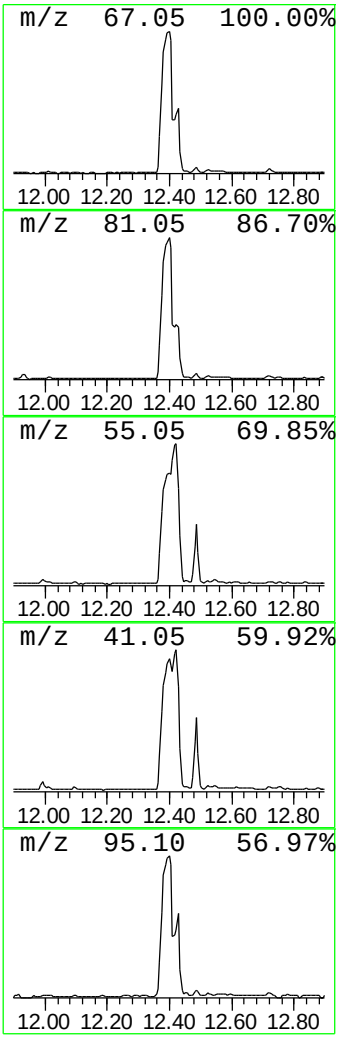
**********

Peak Number 17 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.40 | 228.77 ng | 12822100 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 2 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 3 | Methyl 10-trans,12-cis-octadecad... | 294 | C19H34O2 | 1000336-44-2 | 99 |
| 4 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 5 | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 98 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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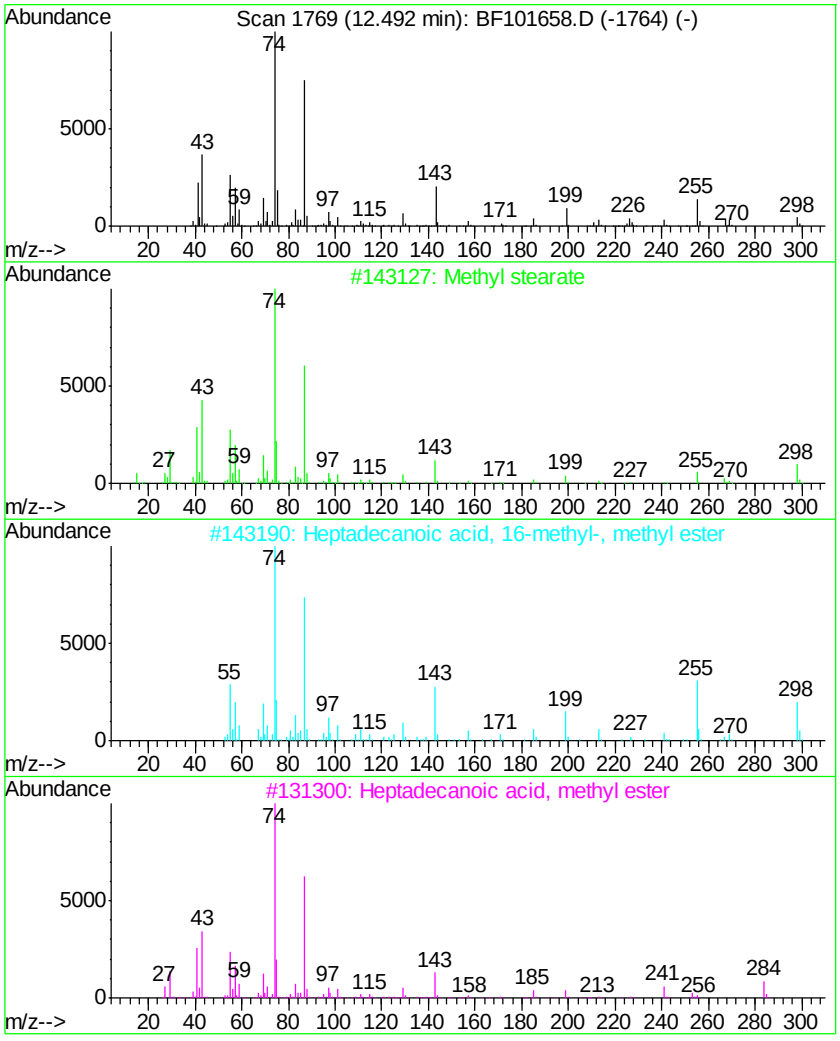
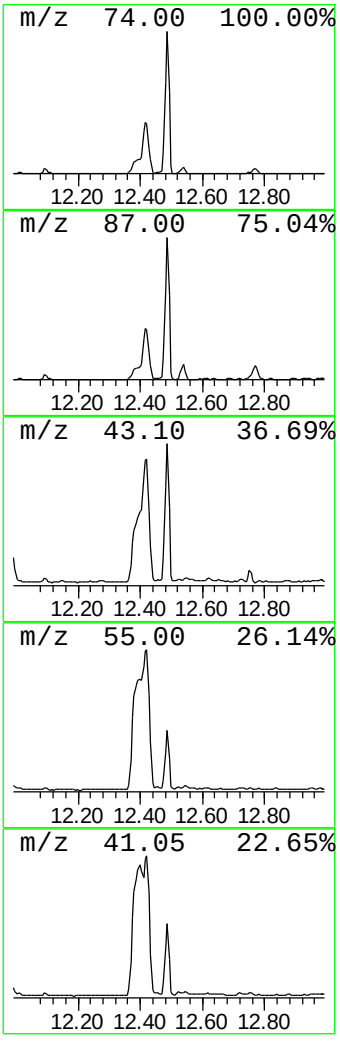
Peak Number 18 Methyl stearate Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 49.29 ng | 2762390 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 97 |
| 2 | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 91 |
| 3 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 91 |
| 4 | Hexadecanoic acid, methyl ester | 270 | C17H34O2 | 000112-39-0 | 90 |
| 5 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 90 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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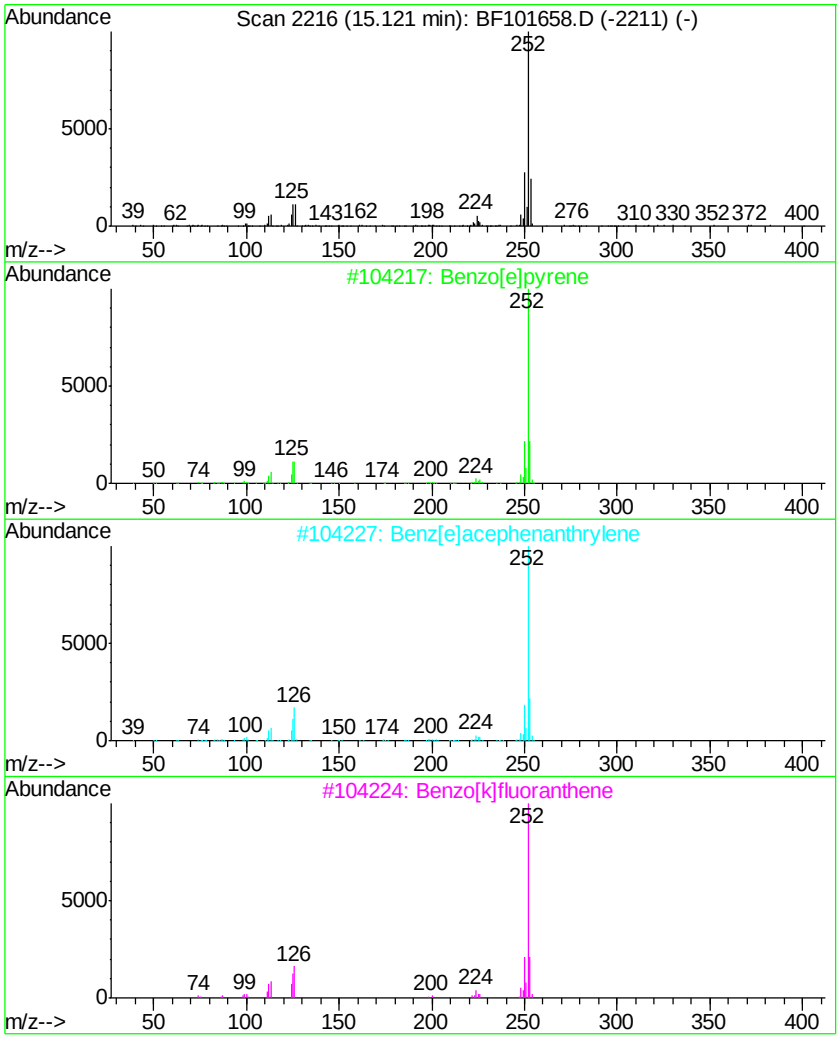
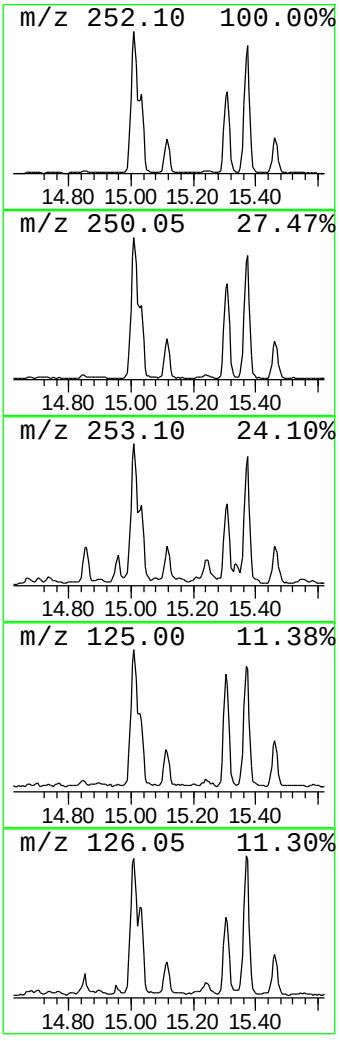
Peak Number 19 Benzo[e]pyrene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.12 | 10.09 ng | 357504 | Perylene-d12 | 15.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 98 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 93 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101658.D
Acq On : 22 Dec 2017 17:26
Operator : SJ/JU
Sample : I6683-09 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EO-02-122017-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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 |
| unknown6.56 | 6.56 | 37.5 | ng | 1724290 | 1 | 6.79 | 920636 | 20.0 |
| Naphthalene, 1-me... | 8.88 | 9.9 | ng | 565508 | 2 | 8.07 | 1139610 | 20.0 |
| Naphthalene, 1,6-... | 9.41 | 9.5 | ng | 479357 | 3 | 9.82 | 1013860 | 20.0 |
| Naphthalene, 2,3-... | 9.48 | 11.2 | ng | 566048 | 3 | 9.82 | 1013860 | 20.0 |
| Hexadecane | 9.74 | 8.1 | ng | 410883 | 3 | 9.82 | 1013860 | 20.0 |
| unknown10.46 | 10.46 | 10.8 | ng | 545992 | 3 | 9.82 | 1013860 | 20.0 |
| Heptadecane | 10.71 | 12.3 | ng | 691187 | 4 | 11.32 | 1120970 | 20.0 |
| 9H-Fluorene, 2-me... | 10.92 | 8.3 | ng | 467437 | 4 | 11.32 | 1120970 | 20.0 |
| Tetradecane | 11.16 | 8.2 | ng | 460781 | 4 | 11.32 | 1120970 | 20.0 |
| Hexadecanoic acid... | 11.70 | 92.9 | ng | 5205440 | 4 | 11.32 | 1120970 | 20.0 |
| Phenanthrene, 2-m... | 11.82 | 13.5 | ng | 758129 | 4 | 11.32 | 1120970 | 20.0 |
| Anthracene, 2-met... | 11.85 | 14.5 | ng | 810749 | 4 | 11.32 | 1120970 | 20.0 |
| 4H-Cyclopenta[def... | 11.93 | 23.6 | ng | 1325220 | 4 | 11.32 | 1120970 | 20.0 |
| Naphthalene, 2-ph... | 12.11 | 8.5 | ng | 474656 | 4 | 11.32 | 1120970 | 20.0 |
| 9,12-Octadecadien... | 12.40 | 228.8 | ng | 12822100 | 4 | 11.32 | 1120970 | 20.0 |
| Methyl stearate | 12.49 | 49.3 | ng | 2762390 | 4 | 11.32 | 1120970 | 20.0 |
| Benzo[e]pyrene | 15.12 | 10.1 | ng | 357504 | 6 | 15.43 | 708753 | 20.0 |