LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

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-BF121918.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 | 5.534 | 582 | 586 | 589 | rBV | 1898871 | 1627967 | 9.80% | 1.908% |
| 2 | 6.539 | 753 | 757 | 762 | rBV | 2046923 | 1873791 | 11.28% | 2.197% |
| 3 | 6.675 | 776 | 780 | 783 | rBV | 2132968 | 1788164 | 10.76% | 2.096% |
| 4 | 6.904 | 815 | 819 | 826 | rVB | 1167098 | 1069325 | 6.44% | 1.254% |
| 5 | 7.057 | 841 | 845 | 848 | rBV | 1624979 | 1384774 | 8.34% | 1.623% |
| 6 | 7.457 | 905 | 913 | 916 | rBV | 1354852 | 1267330 | 7.63% | 1.486% |
| 7 | 7.498 | 917 | 920 | 924 | rVV | 277768 | 253296 | 1.52% | 0.297% |
| 8 | 7.710 | 942 | 956 | 959 | rVB4 | 88775 | 221756 | 1.33% | 0.260% |
| 9 | 8.186 | 1031 | 1037 | 1039 | rBV2 | 1511435 | 1686021 | 10.15% | 1.976% |
| 10 | 8.204 | 1039 | 1040 | 1043 | rVV | 386262 | 295163 | 1.78% | 0.346% |
| 11 | 8.245 | 1043 | 1047 | 1050 | rVB2 | 197137 | 227487 | 1.37% | 0.267% |
| 12 | 8.481 | 1081 | 1087 | 1093 | rBV7 | 173723 | 261267 | 1.57% | 0.306% |
| 13 | 8.686 | 1119 | 1122 | 1125 | rBV2 | 237703 | 220897 | 1.33% | 0.259% |
| 14 | 8.775 | 1134 | 1137 | 1141 | rBV | 602585 | 496268 | 2.99% | 0.582% |
| 15 | 8.898 | 1156 | 1158 | 1162 | rVB | 300909 | 223611 | 1.35% | 0.262% |
| 16 | 8.998 | 1171 | 1175 | 1179 | rBV2 | 204610 | 288823 | 1.74% | 0.339% |
| 17 | 9.139 | 1195 | 1199 | 1203 | rVB2 | 120183 | 178876 | 1.08% | 0.210% |
| 18 | 9.204 | 1208 | 1210 | 1215 | rVB2 | 186808 | 191819 | 1.15% | 0.225% |
| 19 | 9.257 | 1215 | 1219 | 1222 | rBV | 2489306 | 1943160 | 11.70% | 2.278% |
| 20 | 9.339 | 1229 | 1233 | 1238 | rBV2 | 688555 | 649207 | 3.91% | 0.761% |
| 21 | 9.528 | 1261 | 1265 | 1268 | rVB3 | 123103 | 189164 | 1.14% | 0.222% |
| 22 | 9.598 | 1270 | 1277 | 1279 | rBV2 | 247813 | 322698 | 1.94% | 0.378% |
| 23 | 9.645 | 1283 | 1285 | 1290 | rVV2 | 430755 | 562908 | 3.39% | 0.660% |
| 24 | 9.869 | 1316 | 1323 | 1327 | rBV | 678349 | 617375 | 3.72% | 0.724% |
| 25 | 9.939 | 1332 | 1335 | 1338 | rVV | 1534345 | 1320987 | 7.95% | 1.549% |
| 26 | 9.975 | 1338 | 1341 | 1343 | rVB | 528096 | 443521 | 2.67% | 0.520% |
| 27 | 10.145 | 1365 | 1370 | 1374 | rVV | 430625 | 473971 | 2.85% | 0.556% |
| 28 | 10.186 | 1374 | 1377 | 1382 | rVV3 | 124806 | 186713 | 1.12% | 0.219% |
| 29 | 10.369 | 1405 | 1408 | 1411 | rVB | 690804 | 516056 | 3.11% | 0.605% |
| 30 | 10.486 | 1424 | 1428 | 1433 | rBV | 675297 | 609715 | 3.67% | 0.715% |
| 31 | 10.592 | 1441 | 1446 | 1452 | rVV3 | 200415 | 325822 | 1.96% | 0.382% |
| 32 | 10.727 | 1463 | 1469 | 1473 | rBV | 1334013 | 1218964 | 7.34% | 1.429% |
| 33 | 10.845 | 1485 | 1489 | 1496 | rVB | 542234 | 706322 | 4.25% | 0.828% |
| 34 | 11.292 | 1559 | 1565 | 1567 | rBV2 | 444728 | 469068 | 2.82% | 0.550% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

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-BF121918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.322 | 1567 | 1570 | 1576 | rVB | 372114 | 363113 | 2.19% | 0.426% |
| 36 | 11.427 | 1584 | 1588 | 1590 | rBV | 1233823 | 1180577 | 7.11% | 1.384% |
| 37 | 11.451 | 1590 | 1592 | 1596 | rVV | 2778934 | 2351106 | 14.15% | 2.756% |
| 38 | 11.504 | 1597 | 1601 | 1604 | rVB | 901046 | 780493 | 4.70% | 0.915% |
| 39 | 11.651 | 1621 | 1626 | 1629 | rBV | 218969 | 259395 | 1.56% | 0.304% |
| 40 | 11.716 | 1634 | 1637 | 1639 | rBV | 436996 | 362738 | 2.18% | 0.425% |
| 41 | 11.822 | 1650 | 1655 | 1658 | rBV | 6259683 | 5588218 | 33.64% | 6.551% |
| 42 | 11.927 | 1670 | 1673 | 1675 | rBV | 220913 | 183787 | 1.11% | 0.215% |
| 43 | 11.957 | 1675 | 1678 | 1681 | rVB | 407633 | 361661 | 2.18% | 0.424% |
| 44 | 12.045 | 1689 | 1693 | 1695 | rBV | 487421 | 542700 | 3.27% | 0.636% |
| 45 | 12.121 | 1704 | 1706 | 1711 | rVB | 294399 | 305021 | 1.84% | 0.358% |
| 46 | 12.221 | 1720 | 1723 | 1725 | rBV | 276336 | 211498 | 1.27% | 0.248% |
| 47 | 12.516 | 1767 | 1773 | 1775 | rBV | 11295447 | 16611551 | 100.00% | 19.473% |
| 48 | 12.539 | 1775 | 1777 | 1782 | rVV2 | 12103672 | 12012112 | 72.31% | 14.081% |
| 49 | 12.610 | 1786 | 1789 | 1792 | rBV | 2737405 | 2248538 | 13.54% | 2.636% |
| 50 | 12.645 | 1792 | 1795 | 1800 | rVB | 2888346 | 2638067 | 15.88% | 3.092% |
| 51 | 12.874 | 1826 | 1834 | 1840 | rBV | 2347832 | 2778803 | 16.73% | 3.257% |
| 52 | 13.010 | 1851 | 1857 | 1860 | rBV | 1678477 | 1561101 | 9.40% | 1.830% |
| 53 | 13.092 | 1866 | 1871 | 1873 | rBV2 | 153067 | 234096 | 1.41% | 0.274% |
| 54 | 13.198 | 1886 | 1889 | 1892 | rVB | 413848 | 393269 | 2.37% | 0.461% |
| 55 | 13.263 | 1893 | 1900 | 1903 | rBV3 | 436476 | 702287 | 4.23% | 0.823% |
| 56 | 13.304 | 1904 | 1907 | 1909 | rBV2 | 184520 | 174144 | 1.05% | 0.204% |
| 57 | 13.333 | 1909 | 1912 | 1914 | rBV | 293911 | 221692 | 1.33% | 0.260% |
| 58 | 13.580 | 1951 | 1954 | 1956 | rBV | 168128 | 173474 | 1.04% | 0.203% |
| 59 | 13.868 | 2001 | 2003 | 2007 | rBV2 | 156787 | 198646 | 1.20% | 0.233% |
| 60 | 13.910 | 2007 | 2010 | 2015 | rVB2 | 227859 | 236358 | 1.42% | 0.277% |
| 61 | 13.998 | 2023 | 2025 | 2029 | rVB | 271740 | 244772 | 1.47% | 0.287% |
| 62 | 14.063 | 2032 | 2036 | 2039 | rVV2 | 1614141 | 2269639 | 13.66% | 2.661% |
| 63 | 14.092 | 2039 | 2041 | 2049 | rVB | 1037741 | 974358 | 5.87% | 1.142% |
| 64 | 14.174 | 2053 | 2055 | 2058 | rVB | 252363 | 197662 | 1.19% | 0.232% |
| 65 | 14.962 | 2185 | 2189 | 2196 | rVB | 389099 | 582064 | 3.50% | 0.682% |
| 66 | 15.121 | 2212 | 2216 | 2219 | rBV | 713443 | 1080775 | 6.51% | 1.267% |
| 67 | 15.198 | 2226 | 2229 | 2232 | rVB2 | 164068 | 182579 | 1.10% | 0.214% |
| 68 | 15.233 | 2232 | 2235 | 2239 | rVB | 158957 | 190373 | 1.15% | 0.223% |
| 69 | 15.433 | 2265 | 2269 | 2275 | rVB | 413492 | 549360 | 3.31% | 0.644% |
| 70 | 15.498 | 2276 | 2280 | 2286 | rVB | 598745 | 740052 | 4.46% | 0.868% |
| 71 | 15.562 | 2287 | 2291 | 2293 | rBV | 586426 | 709211 | 4.27% | 0.831% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

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-BF121918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.062 | 2542 | 2546 | 2556 | rVB2 | 241869 | 474990 | 2.86% | 0.557% |
| 73 | 17.515 | 2619 | 2623 | 2632 | rVB | 158143 | 323198 | 1.95% | 0.379% |

Sum of corrected areas: 85305764

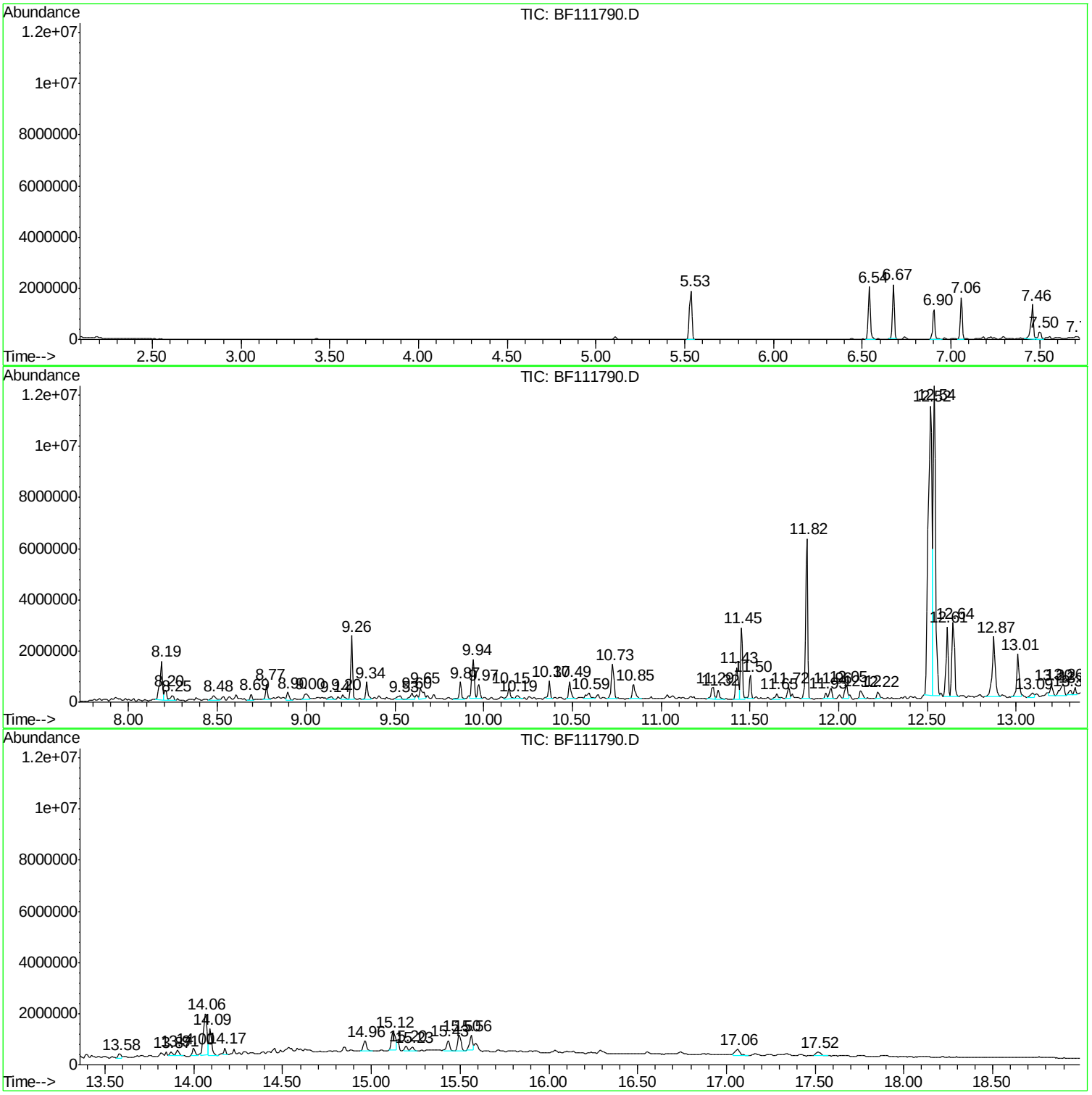
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

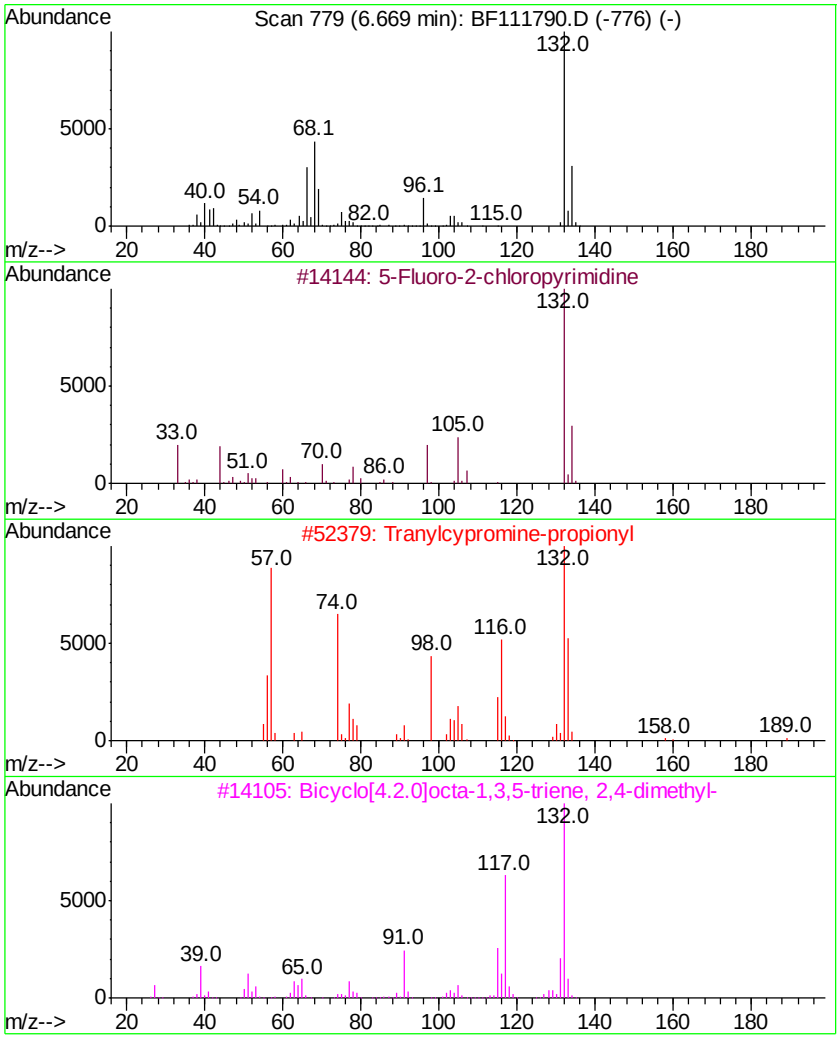
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

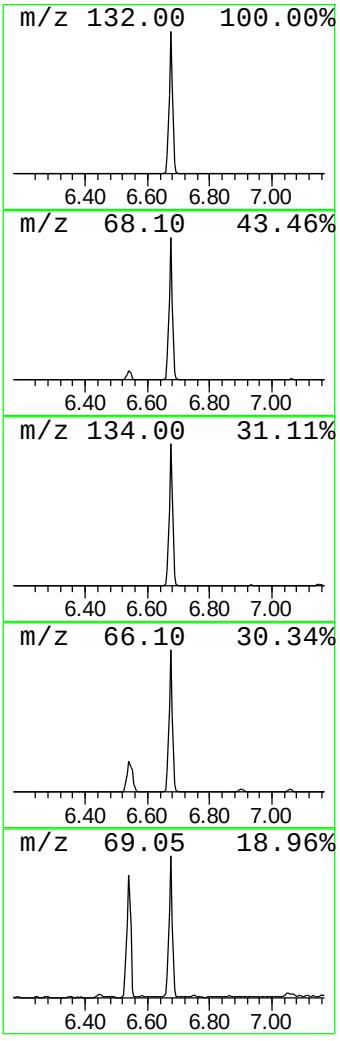
**********

Peak Number 1 unknown6.67 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.67 | 33.44 ng | 1788160 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

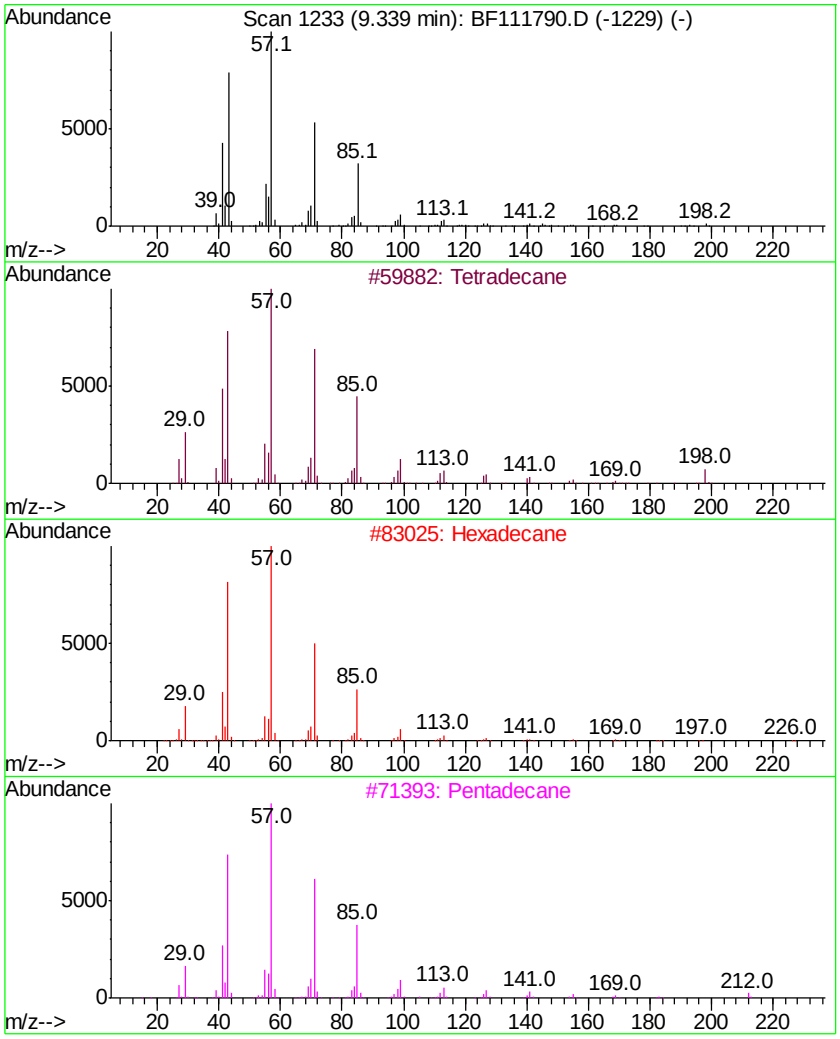
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

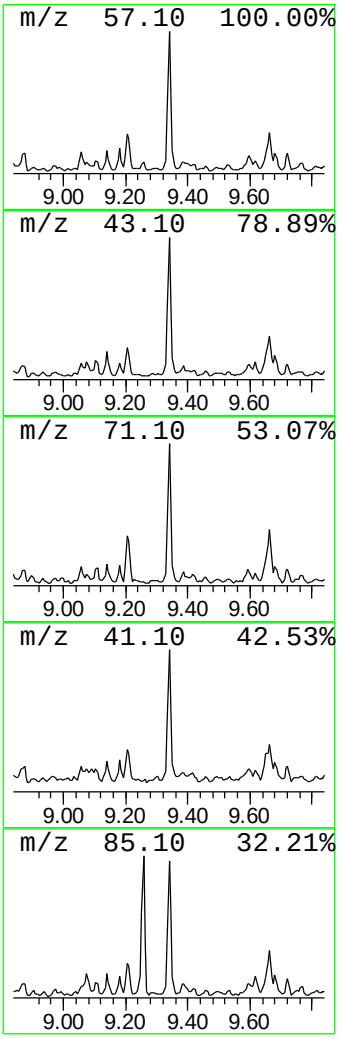
**********

Peak Number 4 Tetradecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.34 | 9.83 ng | 649207 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 94 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 86 |
| 5 | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44 | 018344-37-1 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

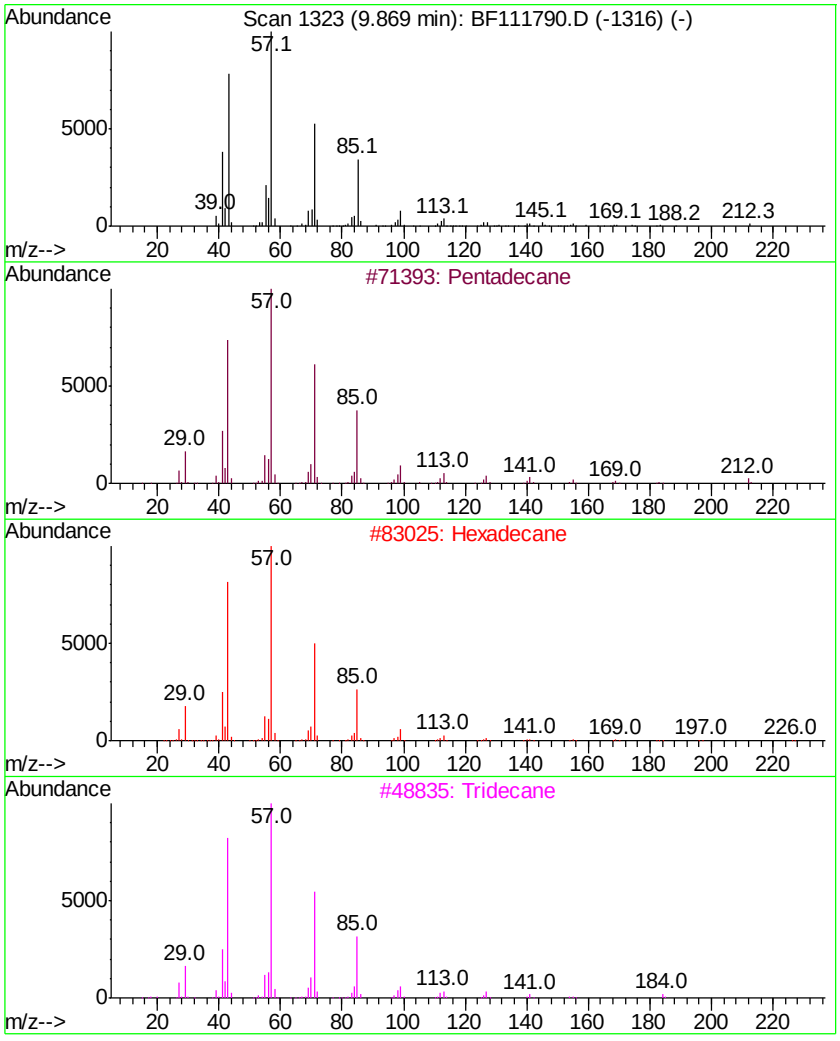
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

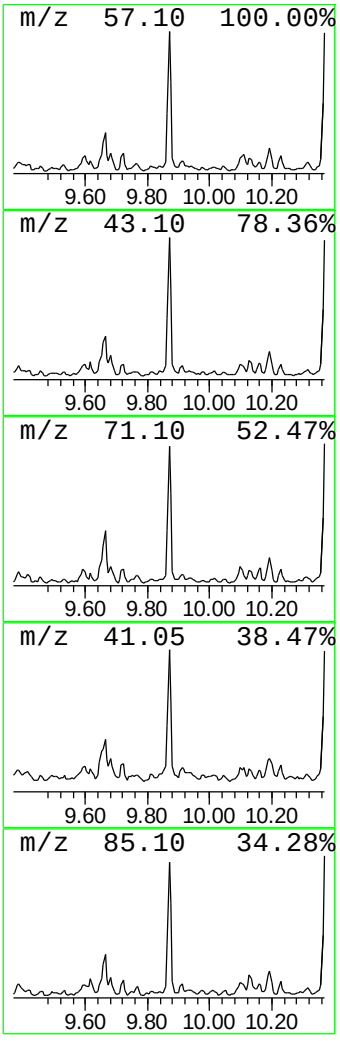
**********

Peak Number 5 Pentadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.87 | 9.35 ng | 617375 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 95 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 83 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

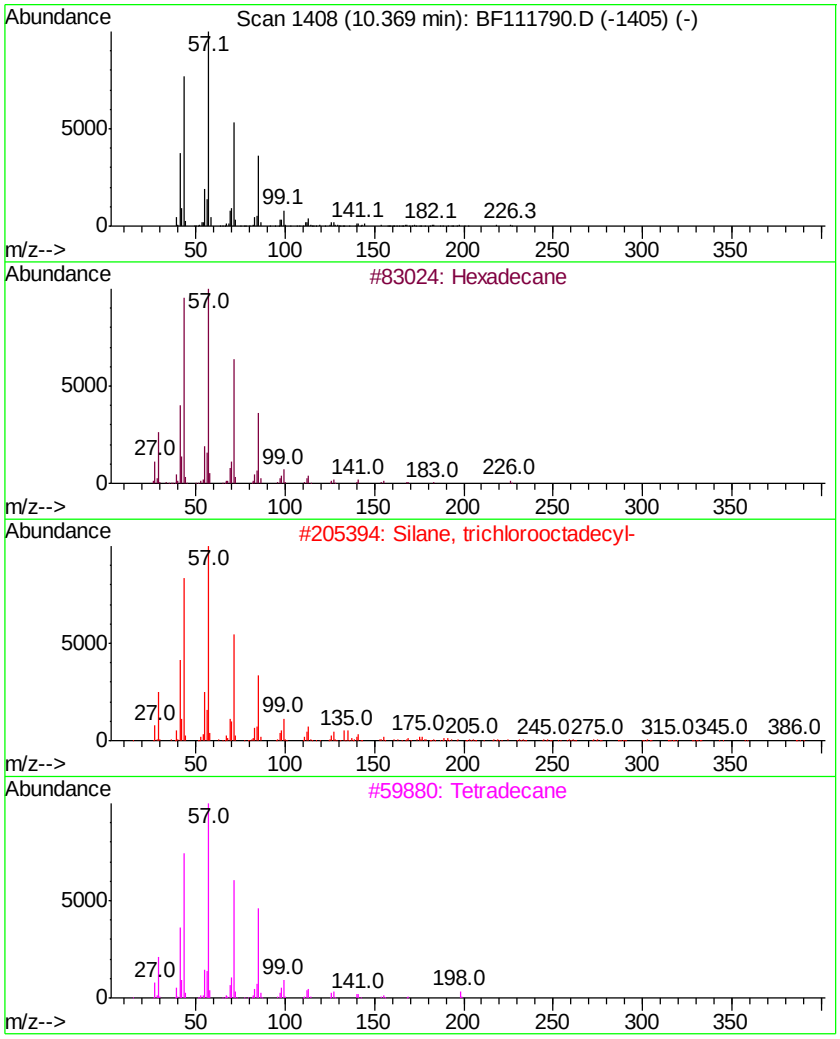
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

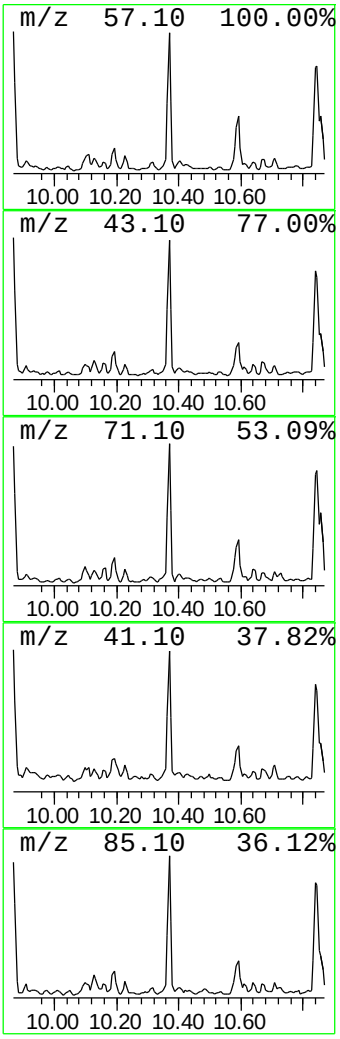
**********

Peak Number 6 Hexadecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.37 | 7.81 ng | 516056 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 93 |
| 2 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 90 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 5 | Pentadecane, 2-methyl- | 226 | C16H34 | 001560-93-6 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

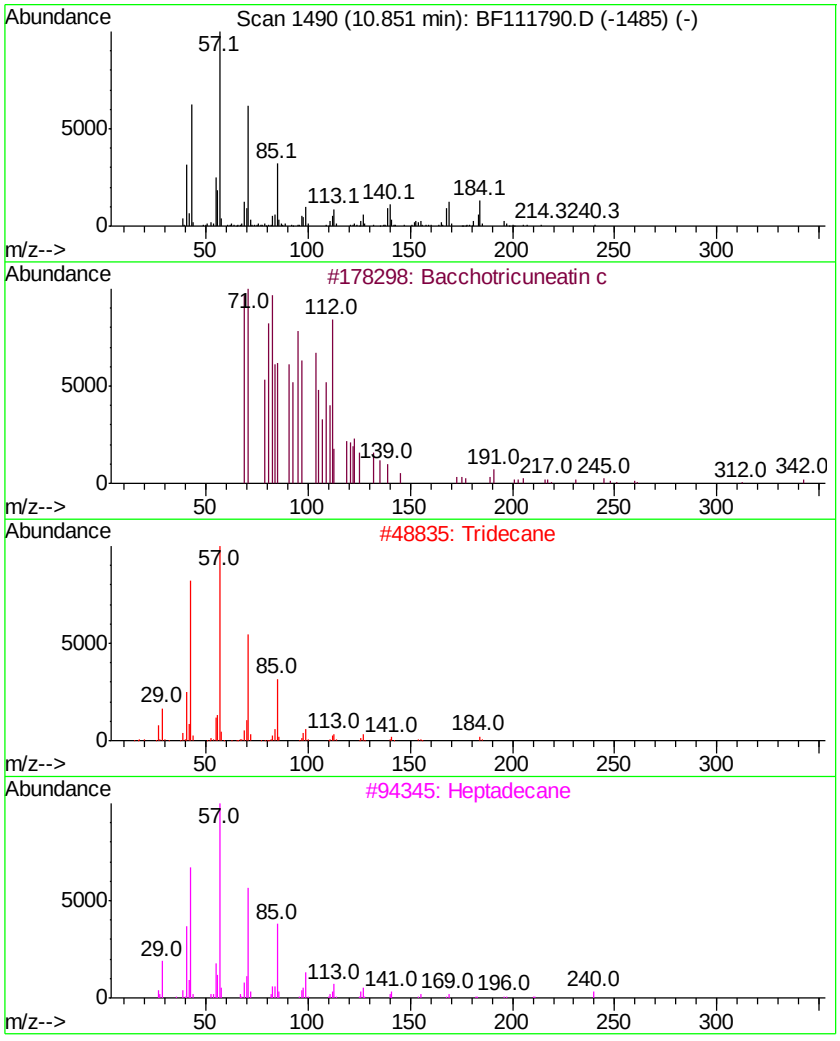
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

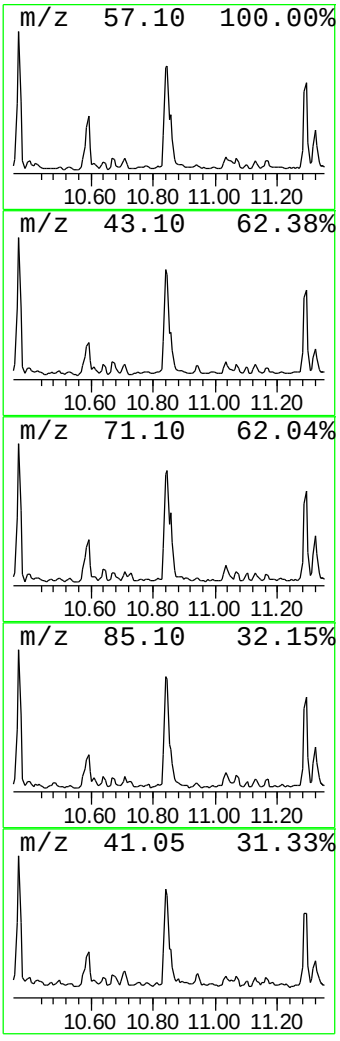
**********

Peak Number 7 Bacchotricuneatin c Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.85 | 11.97 ng | 706322 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 98 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 96 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 95 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 5 | Pentadecane, 7-methyl- | 226 | C16H34 | 006165-40-8 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

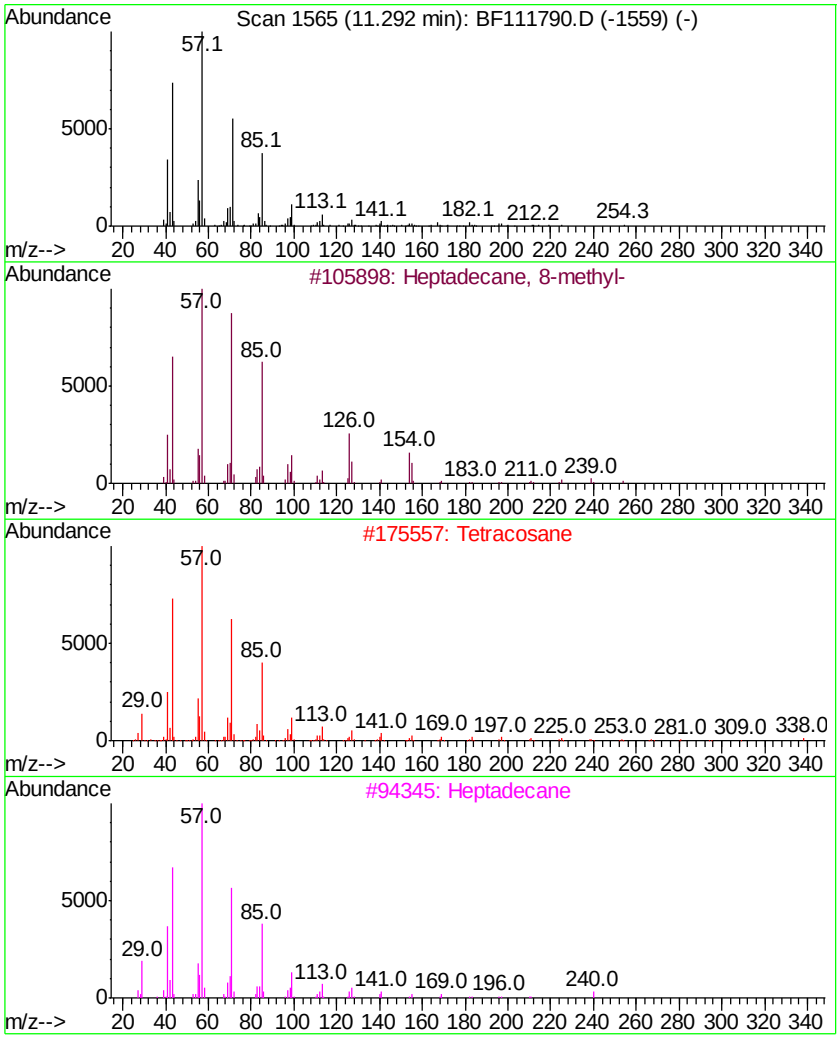
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

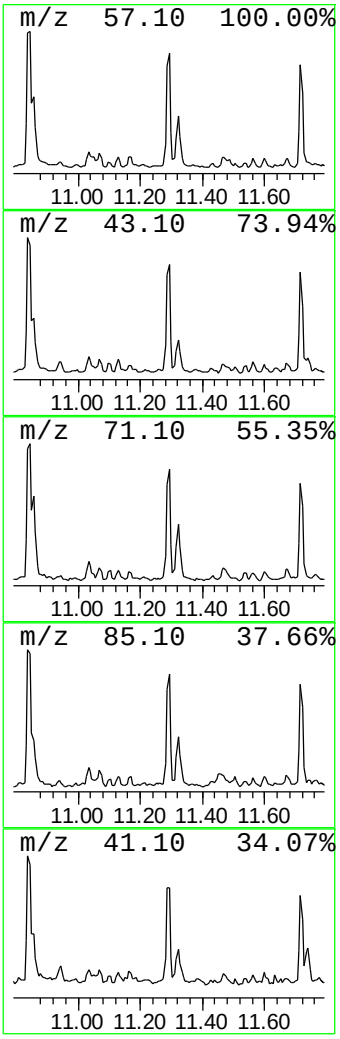
**********

Peak Number 8 Heptadecane, 8-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.29 | 7.95 ng | 469068 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 8-methyl- | 254 | C18H38 | 013287-23-5 | 91 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

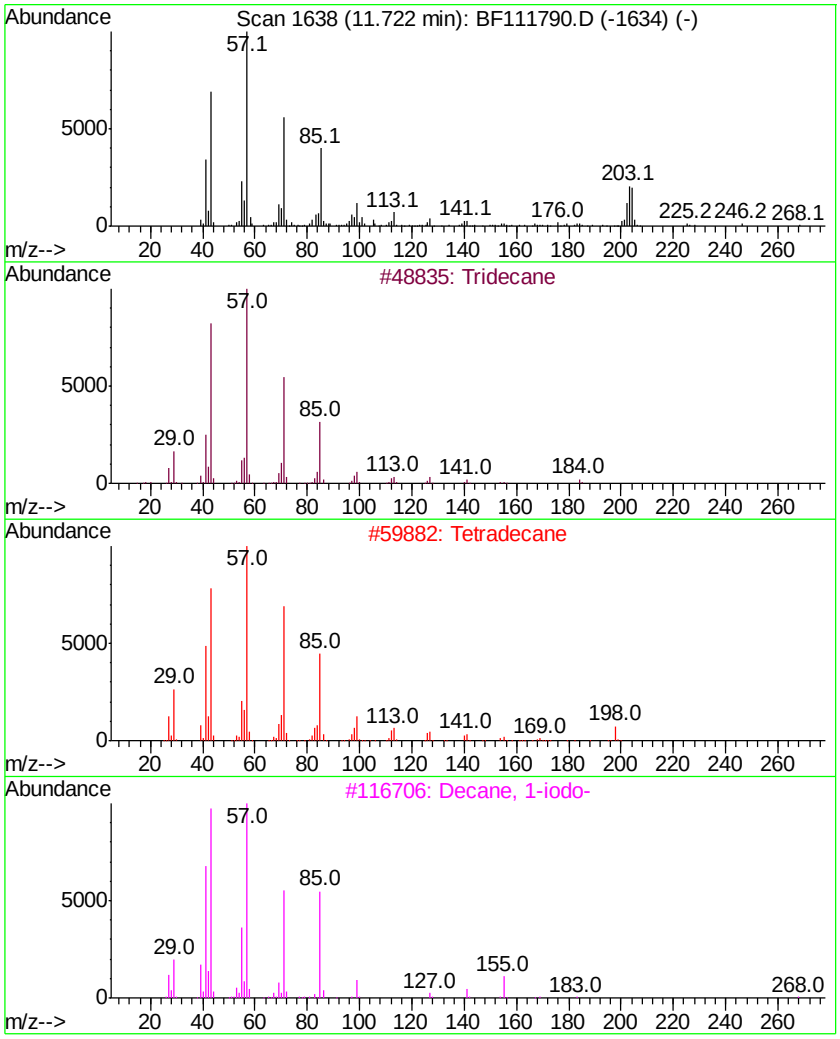
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

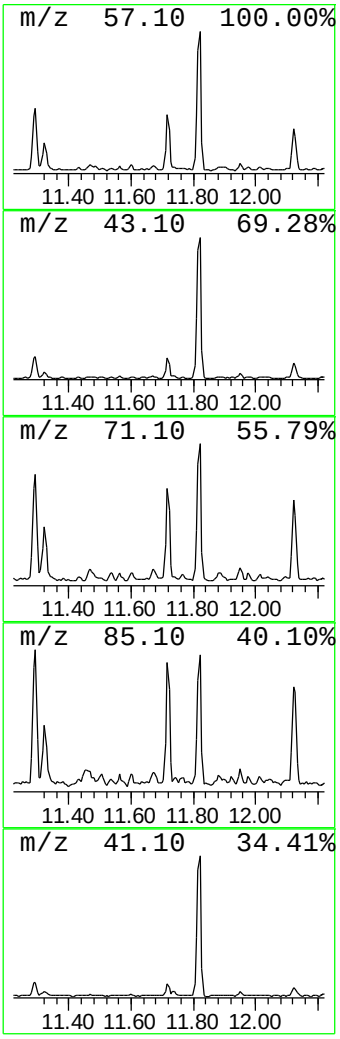
**********

Peak Number 10 Tridecane Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.72 | 6.15 ng | 362738 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 96 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 92 |
| 3 | Decane, 1-iodo- | 268 | C10H21I | 002050-77-3 | 86 |
| 4 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 68 |
| 5 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

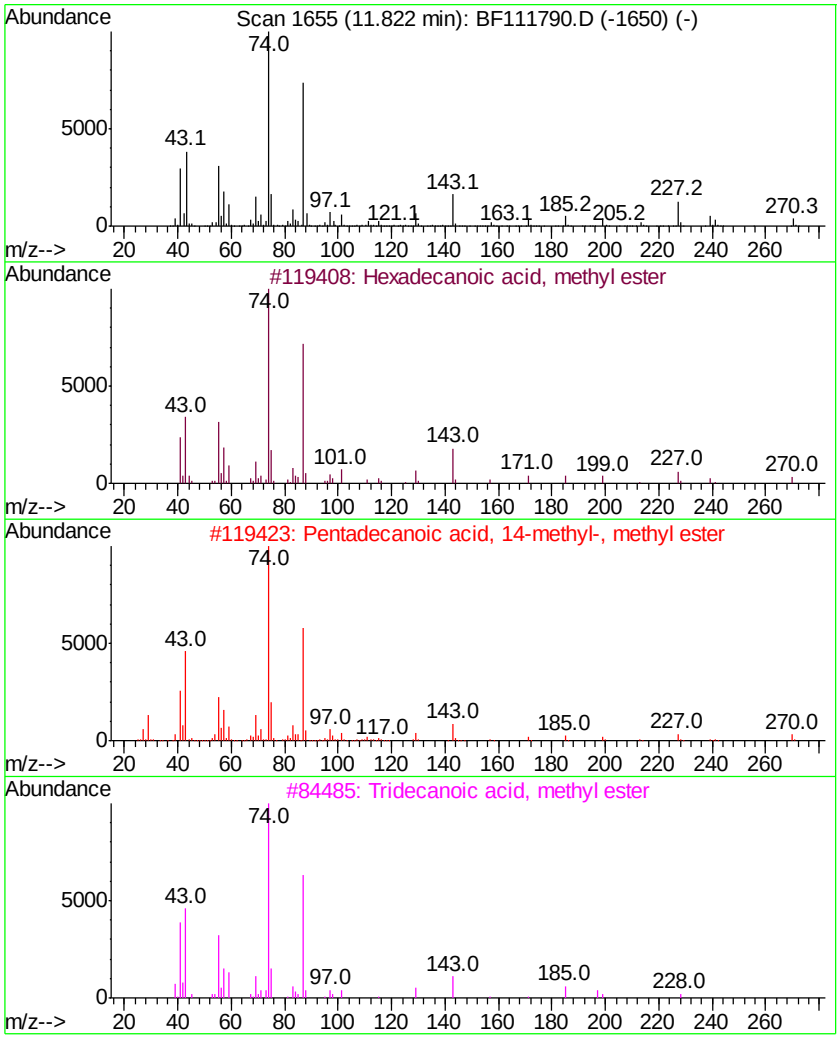
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

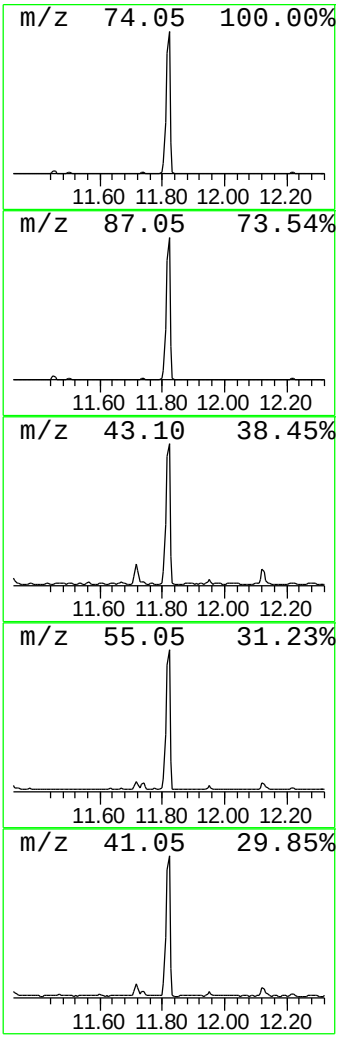
**********

Peak Number 11 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.82 | 94.67 ng | 5588220 | Phenanthrene-d10 | 11.43 |

| 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 | 95 |
| 3 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 91 |
| 4 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 87 |
| 5 | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

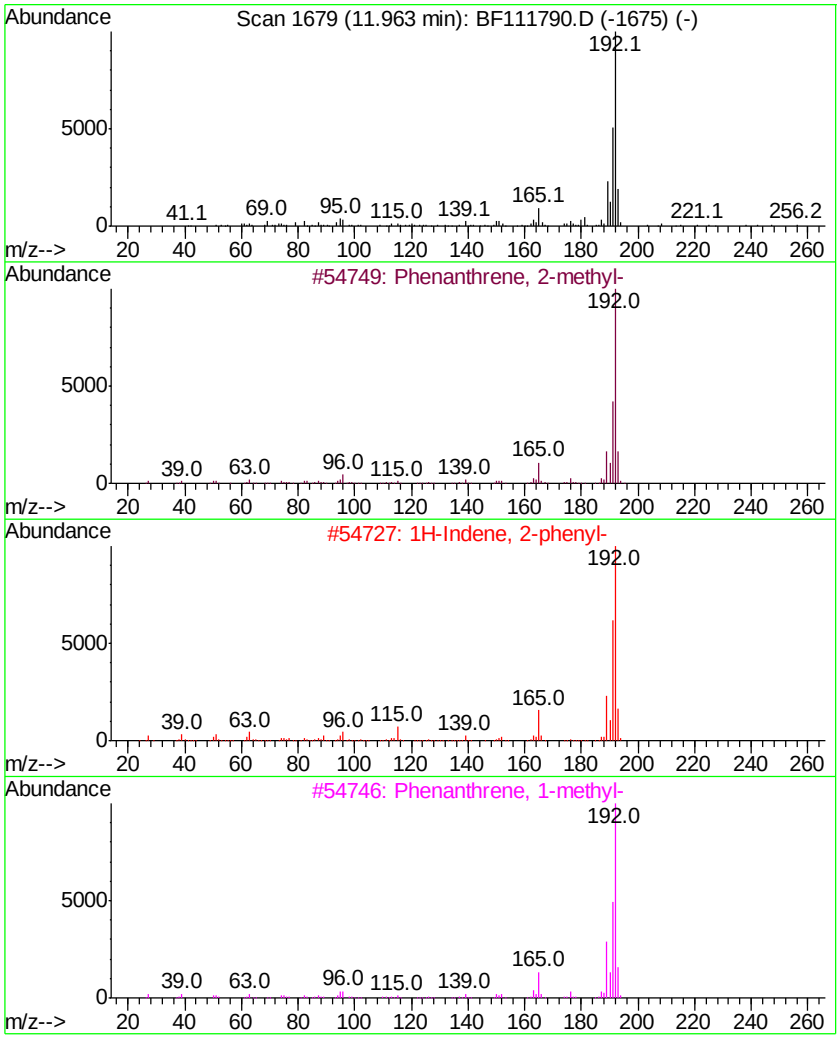
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

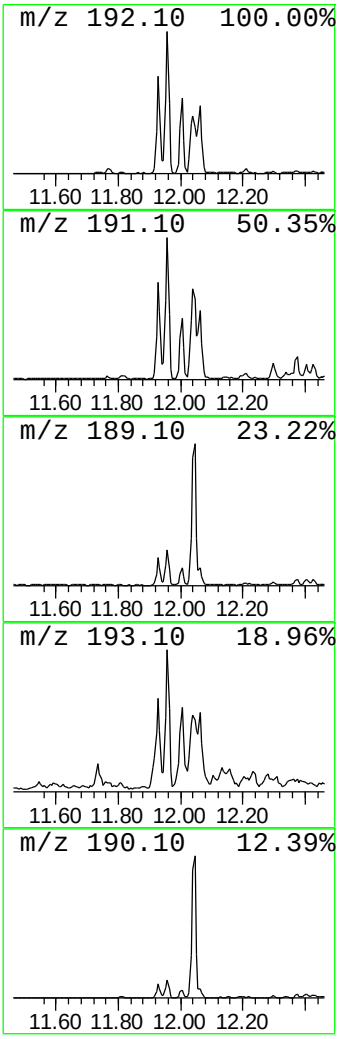
**********

Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.96 | 6.13 ng | 361661 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 95 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

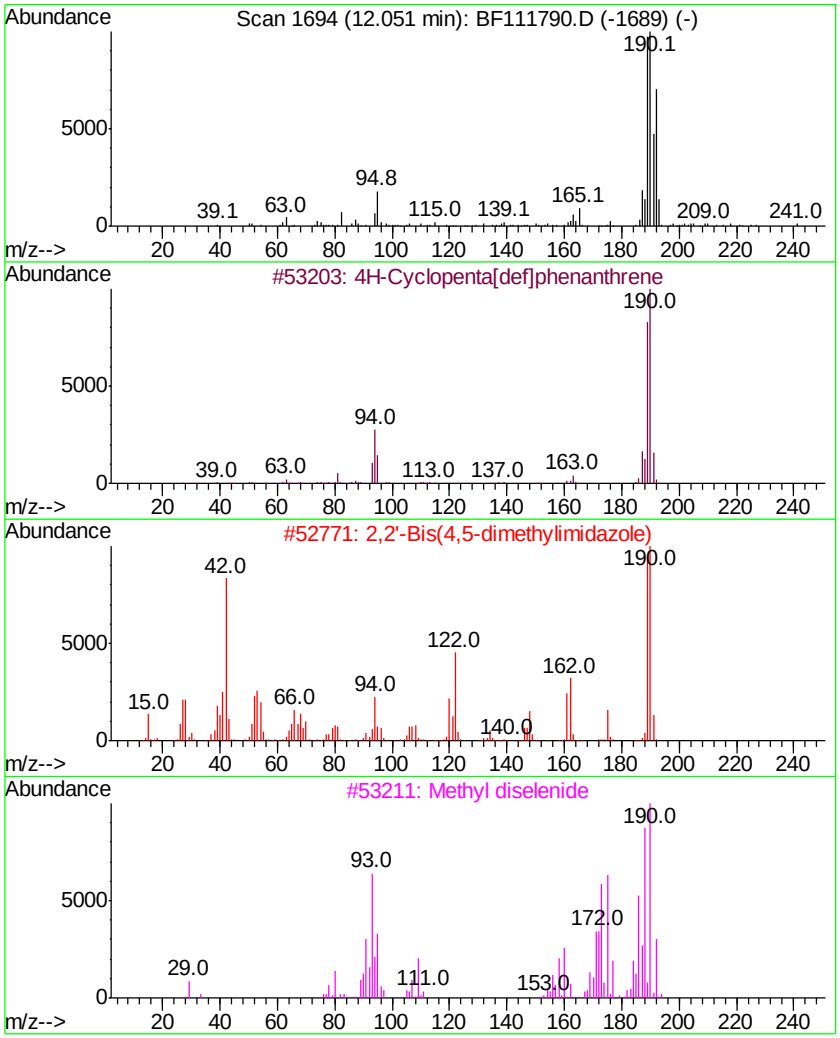
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

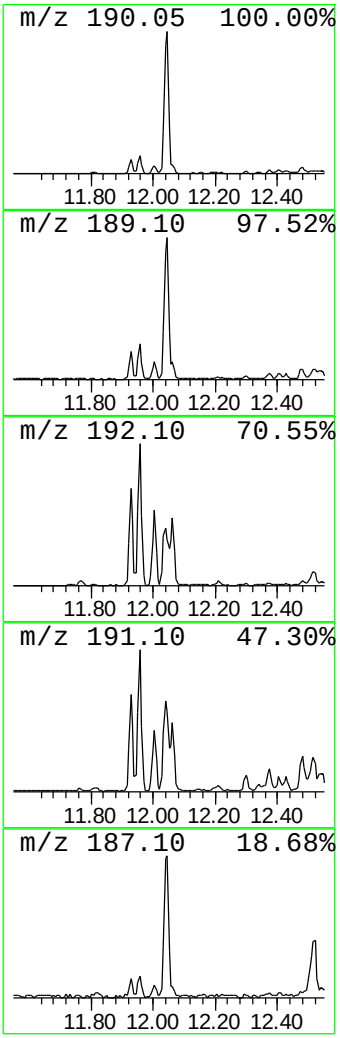
**********

Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.05 | 9.19 ng | 542700 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 2 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |
| 3 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 38 |
| 4 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 25 |
| 5 | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4 | 004923-55-1 | 23 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

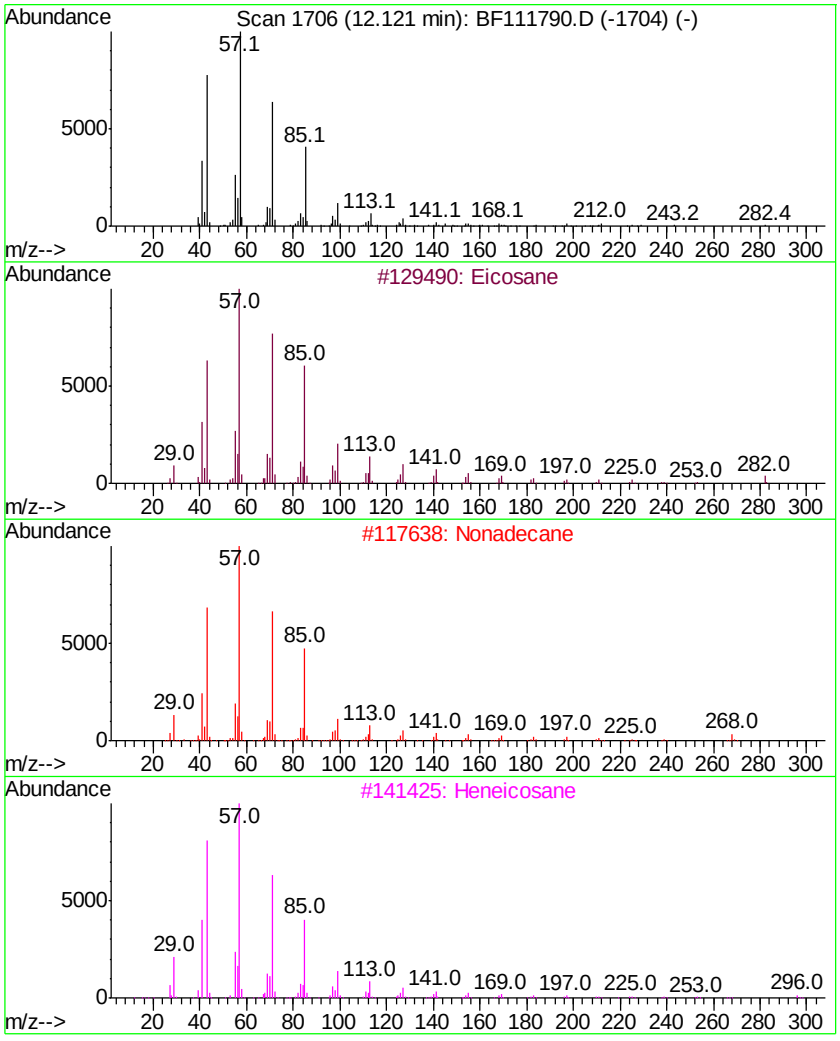
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

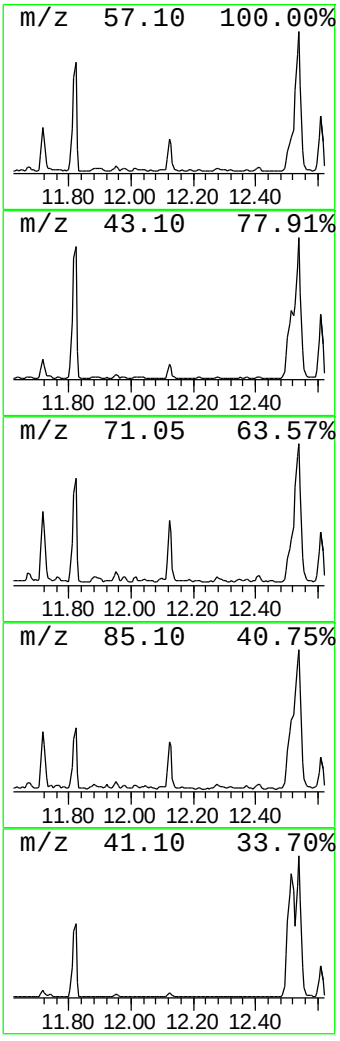
**********

Peak Number 14 Eicosane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 5.17 ng | 305021 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 97 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 91 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

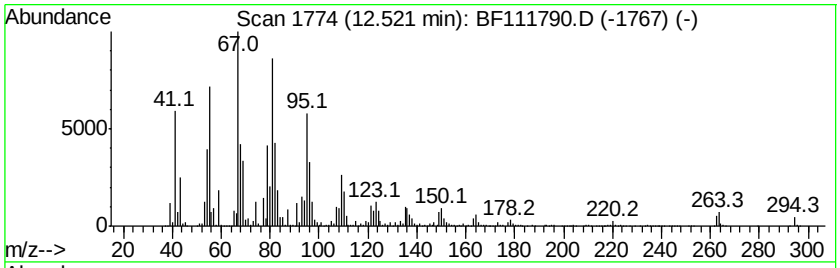
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

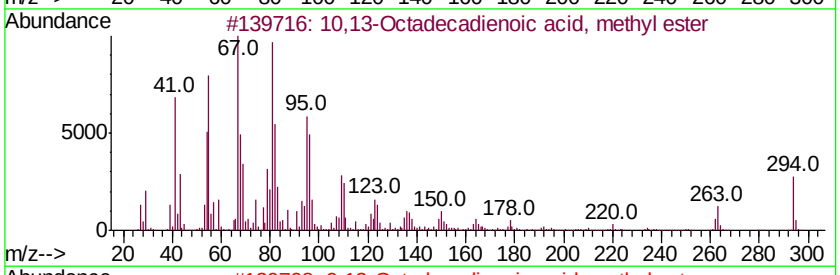
**********

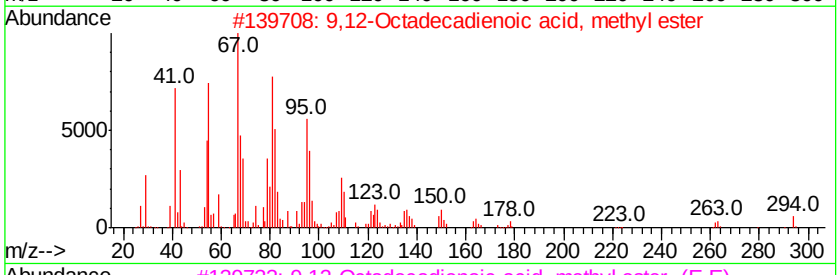
Peak Number 15 10,13-Octadecadienoic acid,... Concentration Rank 1

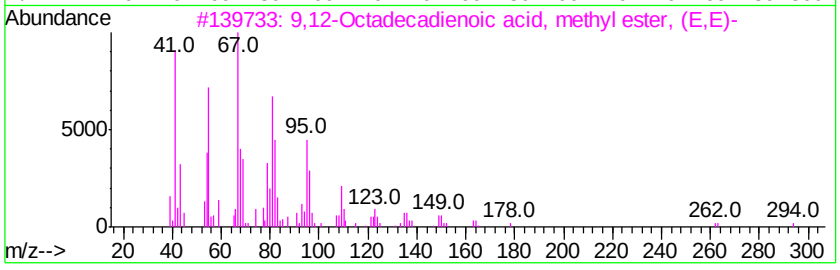
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.52 | 281.41 ng | 16611600 | Phenanthrene-d10 | 11.43 |

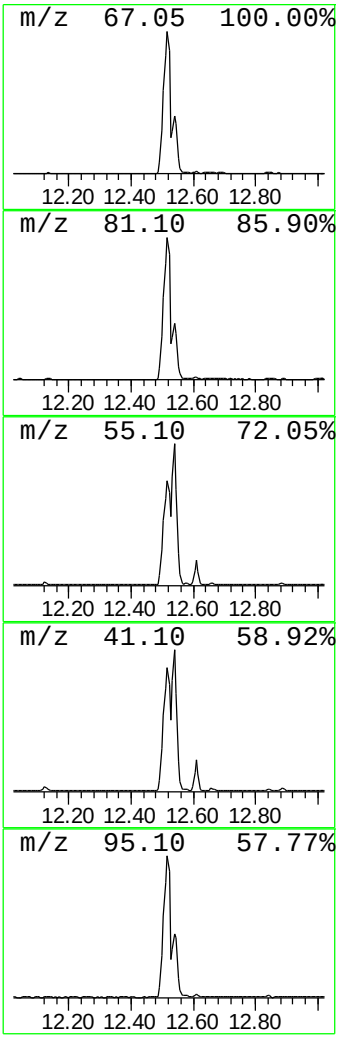
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99 |
| 2 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99 |
| 3 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 4 | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99 |
| 5 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

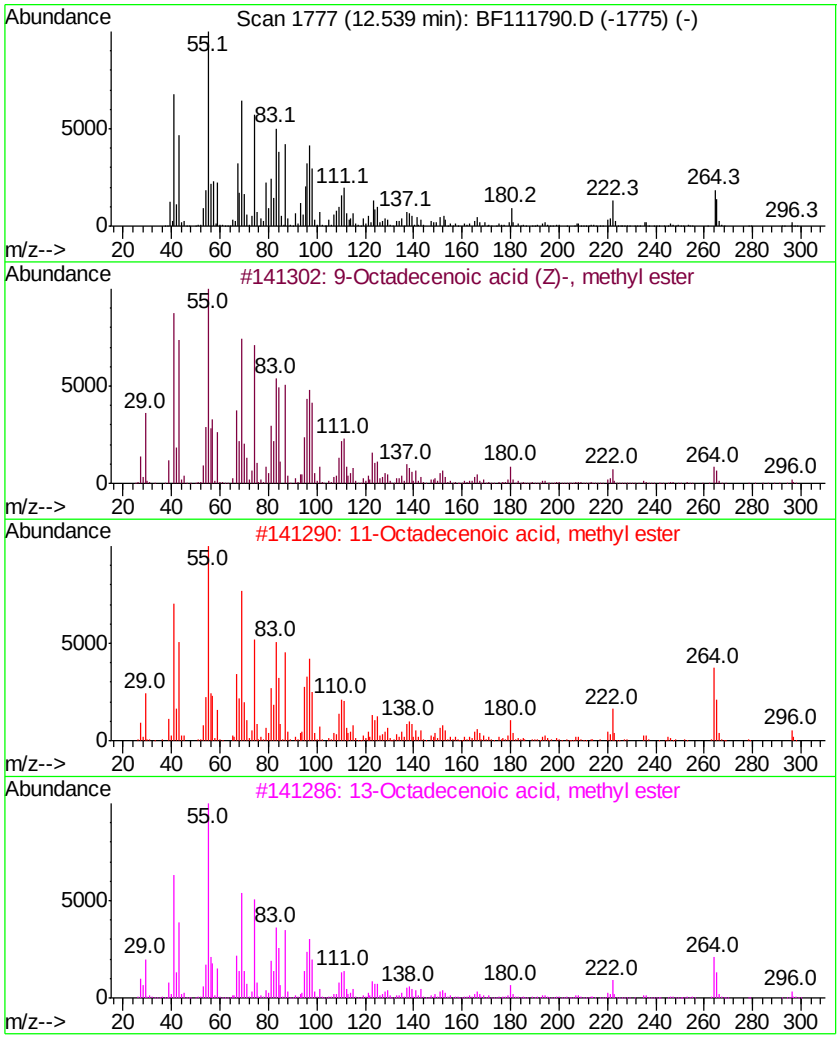
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

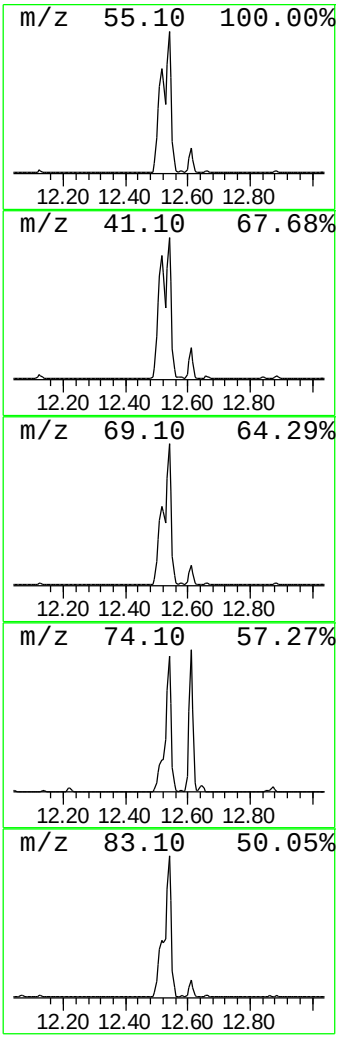
**********

Peak Number 16 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.54 | 203.50 ng | 12012100 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99 |
| 2 | 11-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052380-33-3 | 99 |
| 3 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 99 |
| 4 | 12-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-46-2 | 99 |
| 5 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 99 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

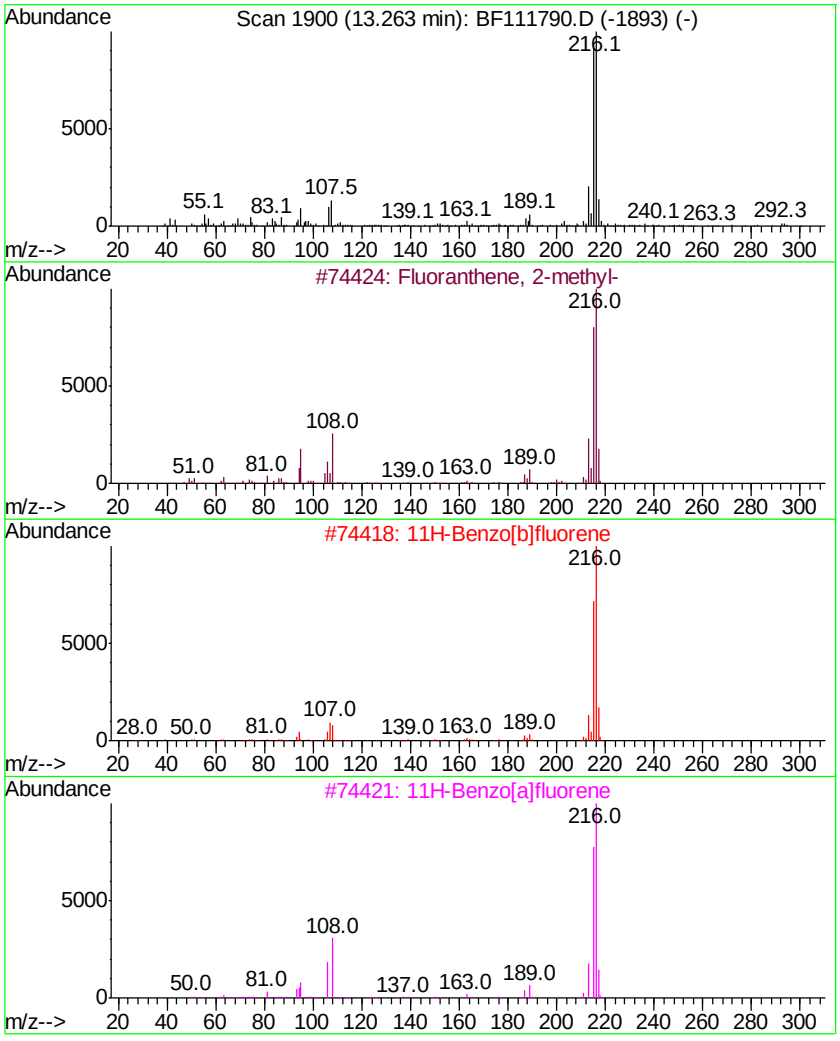
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

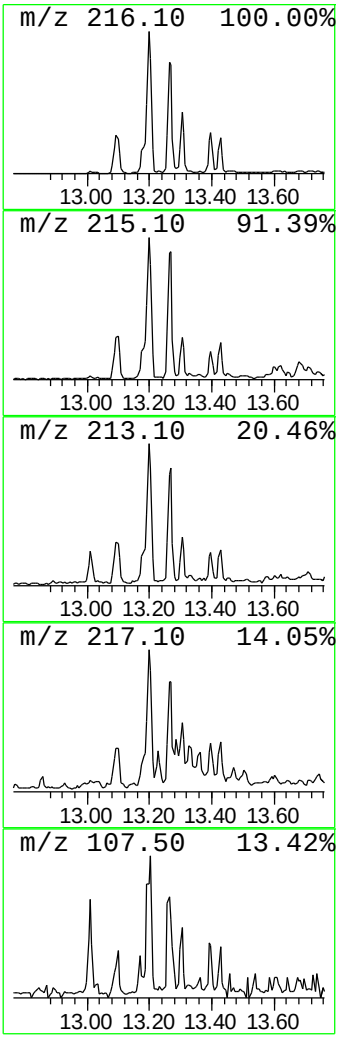
**********

Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.26 | 6.19 ng | 702287 | Chrysene-d12 | 14.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 83 |
| 4 | 2-[3-Pyridylmethylene-3-quinucl... | 216 | C13H16N2O | 273748-56-4 | 59 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 58 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

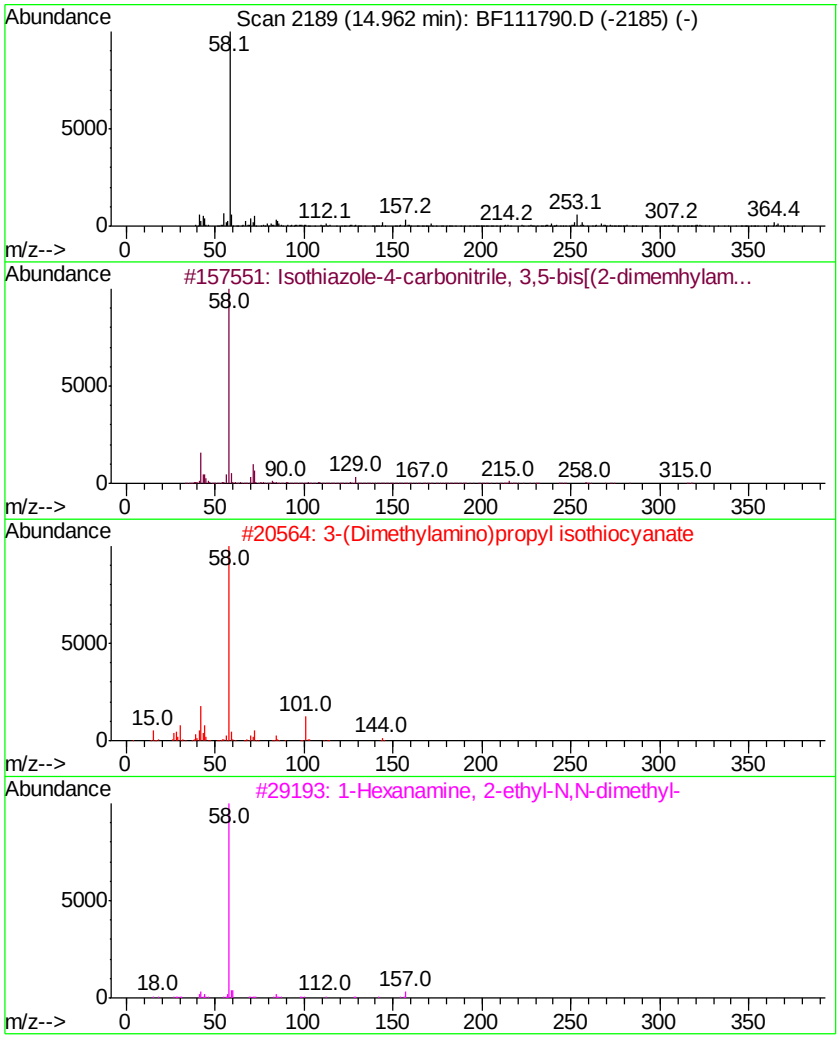
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

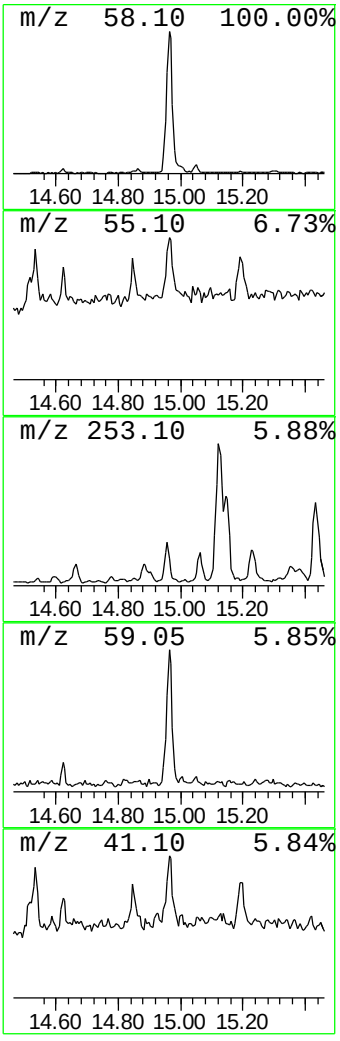
**********

Peak Number 18 Isothiazole-4-carbonitrile,... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.96 | 16.41 ng | 582064 | Perylene-d12 | 15.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isothiazole-4-carbonitrile, 3,5-... | 316 | C12H20N4S3 | 340816-58-2 | 64 |
| 2 | 3-(Dimethylamino)propyl isothioc... | 144 | C6H12N2S | 027421-70-1 | 64 |
| 3 | 1-Hexanamine, 2-ethyl-N,N-dimethyl- | 157 | C10H23N | 028056-87-3 | 64 |
| 4 | N,N-Dimethyloctylamine | 157 | C10H23N | 007378-99-6 | 64 |
| 5 | Oxamide, N-cyclohexyl-N'-(2-meth... | 269 | C14H27N3O2 | 333434-84-7 | 59 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

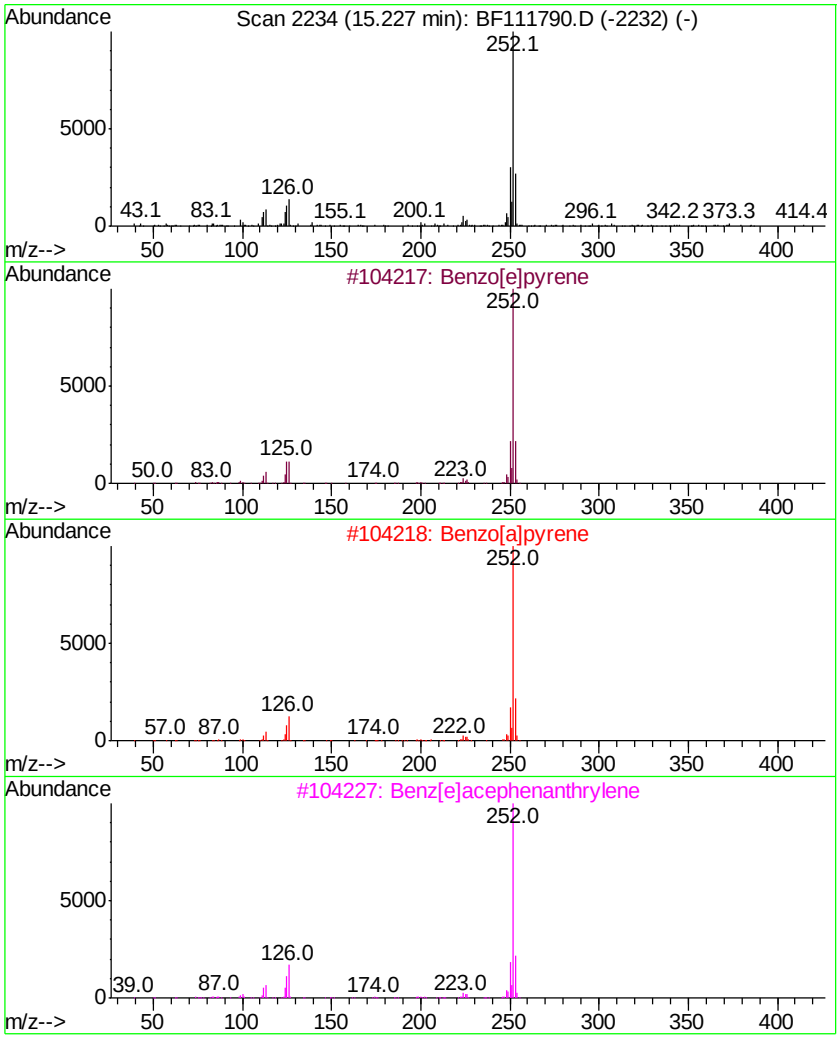
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

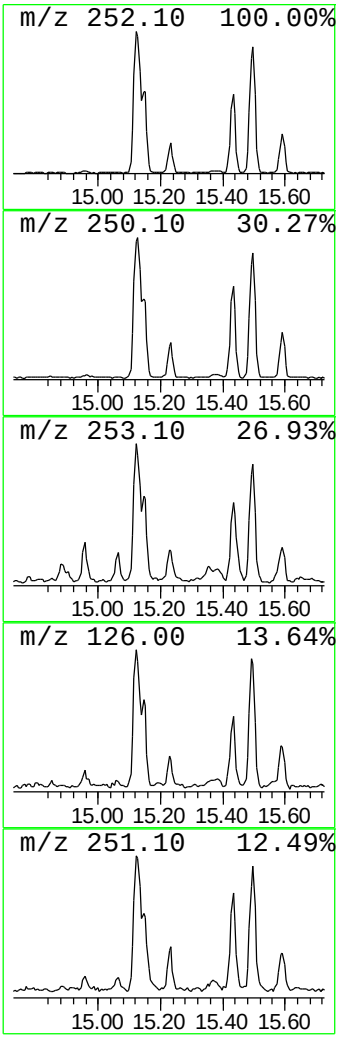
**********

Peak Number 19 Benzo[e]pyrene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.23 | 5.37 ng | 190373 | Perylene-d12 | 15.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 91 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 90 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |
| 4 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

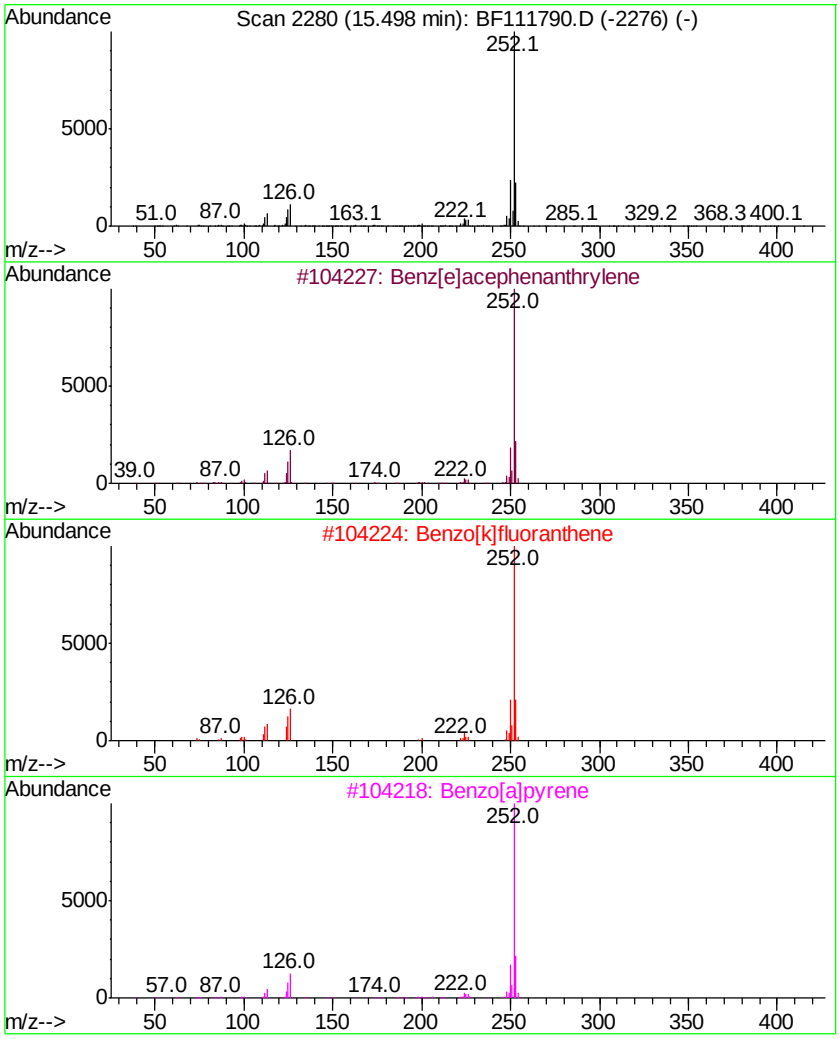
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

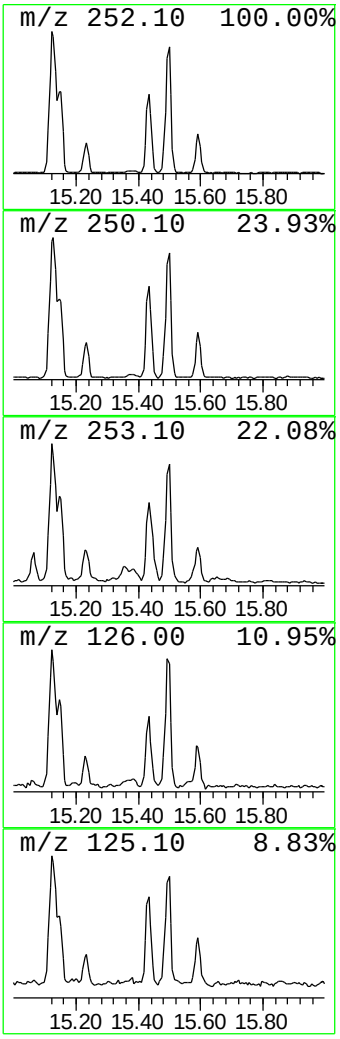
**********

Peak Number 20 Benz[e]acephenanthrylene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.50 | 20.87 ng | 740052 | Perylene-d12 | 15.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 97 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 4 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF122818\
Data File : BF111790.D
Acq On : 28 Dec 2018 15:57
Operator : JU/SJ
Sample : J6195-11 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-01-122618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.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 |
| unknown6.67 | 6.67 | 33.4 | ng | 1788160 | 1 | 6.90 | 1069330 | 20.0 |
| Tetradecane | 9.34 | 9.8 | ng | 649207 | 3 | 9.94 | 1320990 | 20.0 |
| Pentadecane | 9.87 | 9.3 | ng | 617375 | 3 | 9.94 | 1320990 | 20.0 |
| Hexadecane | 10.37 | 7.8 | ng | 516056 | 3 | 9.94 | 1320990 | 20.0 |
| Bacchotricuneatin c | 10.85 | 12.0 | ng | 706322 | 4 | 11.43 | 1180580 | 20.0 |
| Heptadecane, 8-me... | 11.29 | 8.0 | ng | 469068 | 4 | 11.43 | 1180580 | 20.0 |
| Tridecane | 11.72 | 6.2 | ng | 362738 | 4 | 11.43 | 1180580 | 20.0 |
| Hexadecanoic acid... | 11.82 | 94.7 | ng | 5588220 | 4 | 11.43 | 1180580 | 20.0 |
| Phenanthrene, 2-m... | 11.96 | 6.1 | ng | 361661 | 4 | 11.43 | 1180580 | 20.0 |
| 4H-Cyclopenta[def... | 12.05 | 9.2 | ng | 542700 | 4 | 11.43 | 1180580 | 20.0 |
| Eicosane | 12.12 | 5.2 | ng | 305021 | 4 | 11.43 | 1180580 | 20.0 |
| 10,13-Octadecadie... | 12.52 | 281.4 | ng | 16611600 | 4 | 11.43 | 1180580 | 20.0 |
| 9-Octadecenoic ac... | 12.54 | 203.5 | ng | 12012100 | 4 | 11.43 | 1180580 | 20.0 |
| Fluoranthene, 2-m... | 13.26 | 6.2 | ng | 702287 | 5 | 14.07 | 2269640 | 20.0 |
| Isothiazole-4-car... | 14.96 | 16.4 | ng | 582064 | 6 | 15.56 | 709211 | 20.0 |
| Benzo[e]pyrene | 15.23 | 5.4 | ng | 190373 | 6 | 15.56 | 709211 | 20.0 |
| Benz[e]acephenant... | 15.50 | 20.9 | ng | 740052 | 6 | 15.56 | 709211 | 20.0 |