LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

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_P\METHODS\8270-BP100119.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 | 4.299 | 372 | 376 | 384 | rBV | 59776 | 75521 | 3.30% | 0.180% |
| 2 | 4.934 | 480 | 484 | 494 | rBV | 133950 | 150823 | 6.59% | 0.360% |
| 3 | 5.363 | 554 | 557 | 575 | rBV | 753154 | 752028 | 32.88% | 1.793% |
| 4 | 6.381 | 727 | 730 | 747 | rBV | 1466432 | 1312356 | 57.38% | 3.128% |
| 5 | 6.516 | 749 | 753 | 757 | rBV | 1269122 | 1184125 | 51.78% | 2.823% |
| 6 | 6.740 | 788 | 791 | 799 | rBV | 1063219 | 851891 | 37.25% | 2.031% |
| 7 | 6.899 | 814 | 818 | 821 | rBV | 1460955 | 1202078 | 52.56% | 2.865% |
| 8 | 7.299 | 883 | 886 | 892 | rBV | 1021701 | 799042 | 34.94% | 1.905% |
| 9 | 8.022 | 1006 | 1009 | 1013 | rBV | 1304903 | 1108721 | 48.48% | 2.643% |
| 10 | 8.628 | 1108 | 1112 | 1114 | rBV2 | 34369 | 32892 | 1.44% | 0.078% |
| 11 | 9.057 | 1182 | 1185 | 1189 | rBV2 | 43927 | 36644 | 1.60% | 0.087% |
| 12 | 9.104 | 1189 | 1193 | 1196 | rBV | 2655811 | 1961623 | 85.77% | 4.676% |
| 13 | 9.193 | 1204 | 1208 | 1213 | rBV3 | 58233 | 66886 | 2.92% | 0.159% |
| 14 | 9.369 | 1234 | 1238 | 1242 | rBV2 | 19872 | 33627 | 1.47% | 0.080% |
| 15 | 9.446 | 1248 | 1251 | 1253 | rBV | 47950 | 40009 | 1.75% | 0.095% |
| 16 | 9.504 | 1257 | 1261 | 1265 | rVV | 224230 | 245959 | 10.75% | 0.586% |
| 17 | 9.563 | 1269 | 1271 | 1276 | rVB3 | 22811 | 34486 | 1.51% | 0.082% |
| 18 | 9.728 | 1296 | 1299 | 1303 | rVB | 67284 | 49188 | 2.15% | 0.117% |
| 19 | 9.787 | 1303 | 1309 | 1312 | rBV | 1697291 | 1359496 | 59.44% | 3.241% |
| 20 | 9.822 | 1312 | 1315 | 1318 | rVB | 100857 | 90654 | 3.96% | 0.216% |
| 21 | 9.951 | 1332 | 1337 | 1341 | rBV5 | 19787 | 44560 | 1.95% | 0.106% |
| 22 | 9.993 | 1341 | 1344 | 1347 | rVB | 70652 | 61041 | 2.67% | 0.146% |
| 23 | 10.110 | 1361 | 1364 | 1367 | rBV | 34876 | 35942 | 1.57% | 0.086% |
| 24 | 10.228 | 1381 | 1384 | 1387 | rVB2 | 73843 | 63582 | 2.78% | 0.152% |
| 25 | 10.340 | 1399 | 1403 | 1405 | rBV2 | 71441 | 68933 | 3.01% | 0.164% |
| 26 | 10.451 | 1420 | 1422 | 1427 | rVV | 62255 | 58626 | 2.56% | 0.140% |
| 27 | 10.498 | 1428 | 1430 | 1434 | rVB2 | 29053 | 35636 | 1.56% | 0.085% |
| 28 | 10.581 | 1441 | 1444 | 1449 | rBV | 190499 | 174890 | 7.65% | 0.417% |
| 29 | 10.710 | 1463 | 1466 | 1467 | rBV2 | 110591 | 111274 | 4.87% | 0.265% |
| 30 | 11.157 | 1540 | 1542 | 1545 | rBV2 | 68463 | 62509 | 2.73% | 0.149% |
| 31 | 11.193 | 1545 | 1548 | 1552 | rVB2 | 89899 | 104152 | 4.55% | 0.248% |
| 32 | 11.287 | 1560 | 1564 | 1566 | rBV | 1714050 | 1403148 | 61.35% | 3.345% |
| 33 | 11.310 | 1566 | 1568 | 1571 | rVV | 763693 | 573509 | 25.08% | 1.367% |
| 34 | 11.363 | 1572 | 1577 | 1580 | rVB | 242861 | 240651 | 10.52% | 0.574% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

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_P\METHODS\8270-BP100119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.522 | 1601 | 1604 | 1606 | rVB | 68643 | 50278 | 2.20% | 0.120% |
| 36 | 11.593 | 1613 | 1616 | 1618 | rBV2 | 93889 | 72869 | 3.19% | 0.174% |
| 37 | 11.798 | 1648 | 1651 | 1653 | rBV | 90926 | 83243 | 3.64% | 0.198% |
| 38 | 11.822 | 1653 | 1655 | 1659 | rVB | 166744 | 134766 | 5.89% | 0.321% |
| 39 | 11.869 | 1661 | 1663 | 1666 | rVB | 52594 | 38948 | 1.70% | 0.093% |
| 40 | 11.904 | 1666 | 1669 | 1672 | rBV | 210857 | 231537 | 10.12% | 0.552% |
| 41 | 12.004 | 1683 | 1686 | 1689 | rBV2 | 116897 | 86948 | 3.80% | 0.207% |
| 42 | 12.092 | 1699 | 1701 | 1704 | rBV | 96167 | 80514 | 3.52% | 0.192% |
| 43 | 12.122 | 1704 | 1706 | 1711 | rVB3 | 61943 | 66974 | 2.93% | 0.160% |
| 44 | 12.228 | 1722 | 1724 | 1725 | rBV | 48681 | 41953 | 1.83% | 0.100% |
| 45 | 12.281 | 1730 | 1733 | 1735 | rBV | 69128 | 91606 | 4.01% | 0.218% |
| 46 | 12.351 | 1742 | 1745 | 1748 | rBV | 157286 | 159152 | 6.96% | 0.379% |
| 47 | 12.398 | 1751 | 1753 | 1757 | rVB3 | 167912 | 176895 | 7.73% | 0.422% |
| 48 | 12.440 | 1757 | 1760 | 1764 | rBV3 | 74024 | 88758 | 3.88% | 0.212% |
| 49 | 12.516 | 1769 | 1773 | 1776 | rBV | 1860239 | 1513886 | 66.19% | 3.609% |
| 50 | 12.745 | 1807 | 1812 | 1815 | rBV | 1460012 | 1529780 | 66.89% | 3.647% |
| 51 | 12.775 | 1815 | 1817 | 1819 | rVB2 | 306810 | 229640 | 10.04% | 0.547% |
| 52 | 12.869 | 1830 | 1833 | 1834 | rBV | 102312 | 100111 | 4.38% | 0.239% |
| 53 | 12.892 | 1834 | 1837 | 1845 | rVB | 2573710 | 2287017 | 100.00% | 5.452% |
| 54 | 13.081 | 1867 | 1869 | 1872 | rVB | 274663 | 224190 | 9.80% | 0.534% |
| 55 | 13.140 | 1875 | 1879 | 1883 | rBV2 | 708139 | 746371 | 32.64% | 1.779% |
| 56 | 13.187 | 1884 | 1887 | 1889 | rBV2 | 145161 | 151020 | 6.60% | 0.360% |
| 57 | 13.310 | 1906 | 1908 | 1911 | rBV | 95854 | 83840 | 3.67% | 0.200% |
| 58 | 13.487 | 1934 | 1938 | 1941 | rBV | 1523885 | 1317472 | 57.61% | 3.140% |
| 59 | 13.822 | 1991 | 1995 | 1998 | rBV | 2065755 | 1925880 | 84.21% | 4.591% |
| 60 | 13.963 | 2014 | 2019 | 2022 | rBV2 | 1823287 | 2167702 | 94.78% | 5.167% |
| 61 | 13.992 | 2022 | 2024 | 2026 | rVB | 549146 | 419649 | 18.35% | 1.000% |
| 62 | 14.139 | 2046 | 2049 | 2055 | rVB | 2471666 | 2282715 | 99.81% | 5.441% |
| 63 | 14.451 | 2099 | 2102 | 2106 | rVB | 2337449 | 2118652 | 92.64% | 5.050% |
| 64 | 14.763 | 2151 | 2155 | 2158 | rBV | 1954738 | 2084481 | 91.14% | 4.969% |
| 65 | 15.016 | 2195 | 2198 | 2201 | rBV2 | 449469 | 593831 | 25.97% | 1.416% |
| 66 | 15.098 | 2209 | 2212 | 2220 | rVB2 | 1509624 | 1823294 | 79.72% | 4.346% |
| 67 | 15.381 | 2257 | 2260 | 2266 | rVB | 449535 | 573619 | 25.08% | 1.367% |
| 68 | 15.445 | 2267 | 2271 | 2274 | rVV | 1178007 | 1476606 | 64.56% | 3.520% |
| 69 | 15.481 | 2274 | 2277 | 2290 | rVB2 | 1141102 | 1665800 | 72.84% | 3.971% |
| 70 | 15.922 | 2348 | 2352 | 2356 | rBV | 590188 | 805286 | 35.21% | 1.920% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

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_P\METHODS\8270-BP100119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 41951785

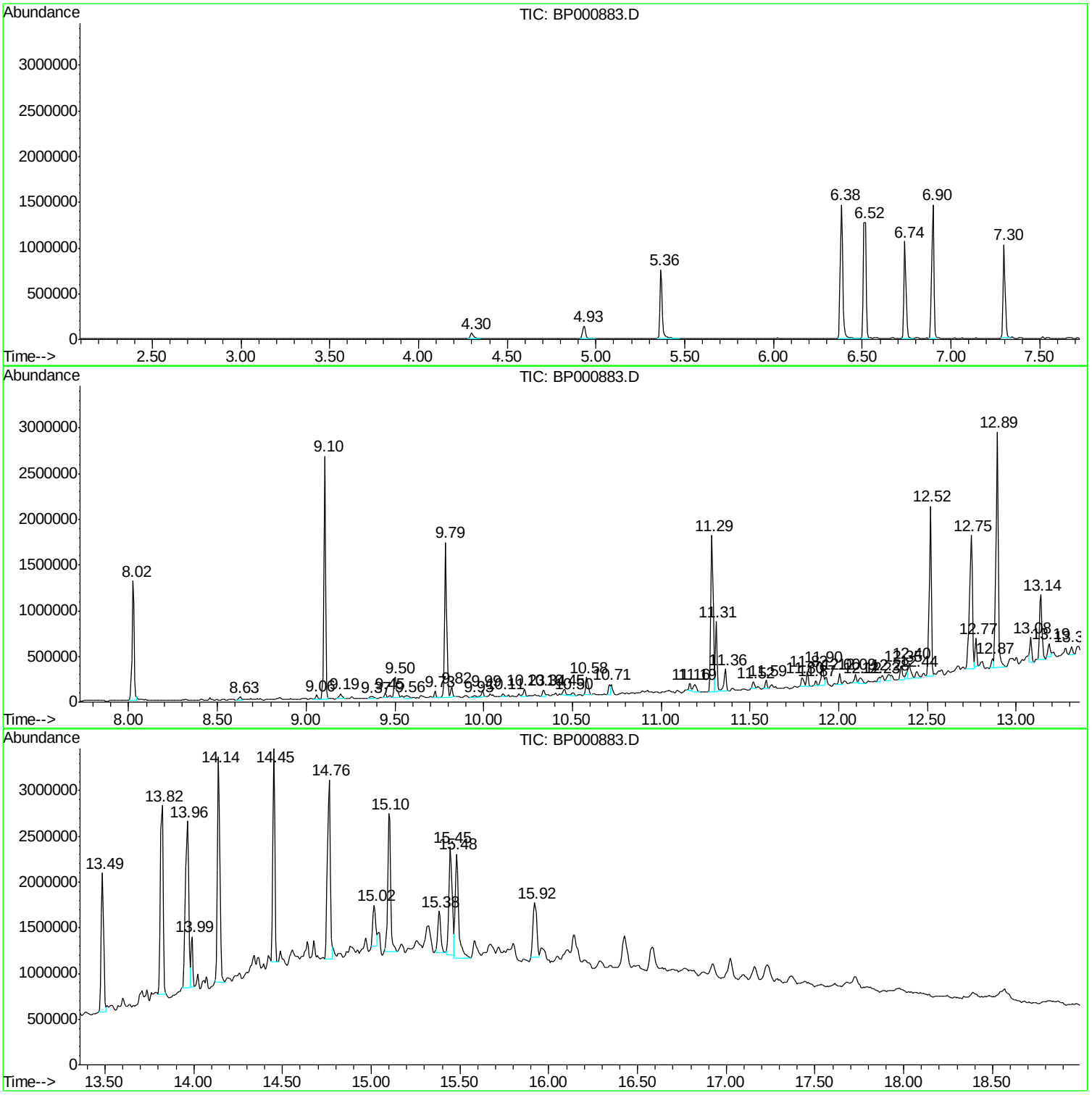
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.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 P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

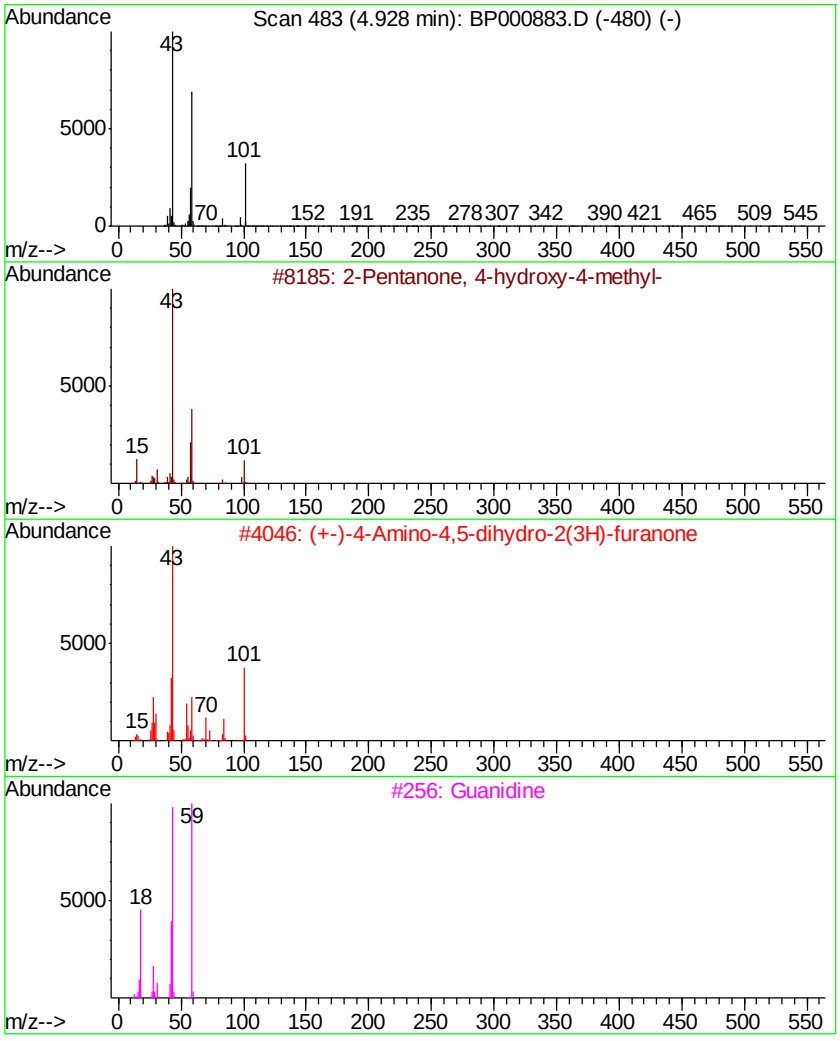
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

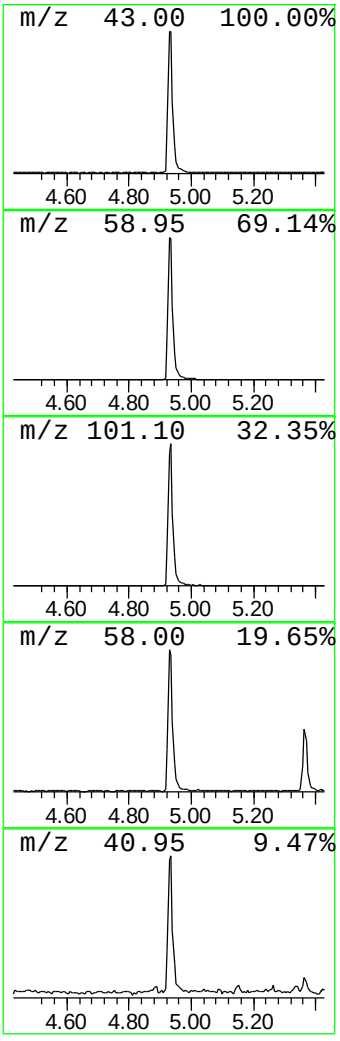
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.93 | 3.54 ng | 150823 | 1,4-Dichlorobenzene-d4 | 6.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 47 |
| 3 | Guanidine | 59 | CH5N3 | 000113-00-8 | 43 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

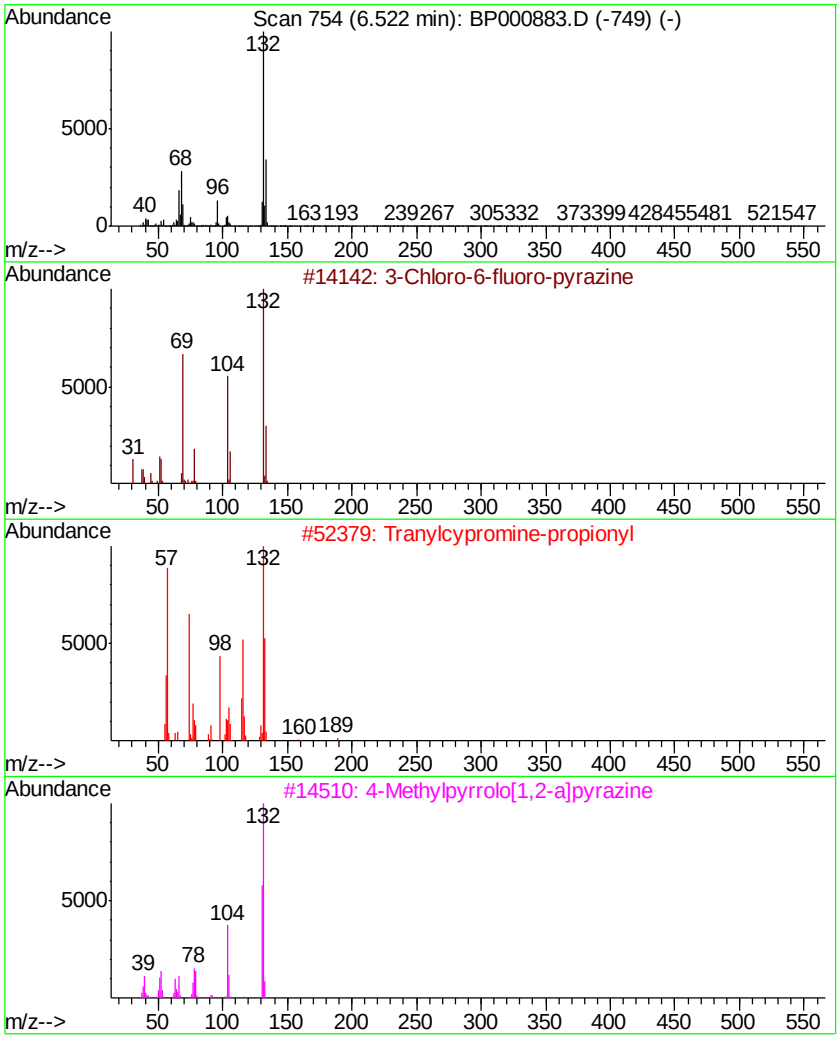
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

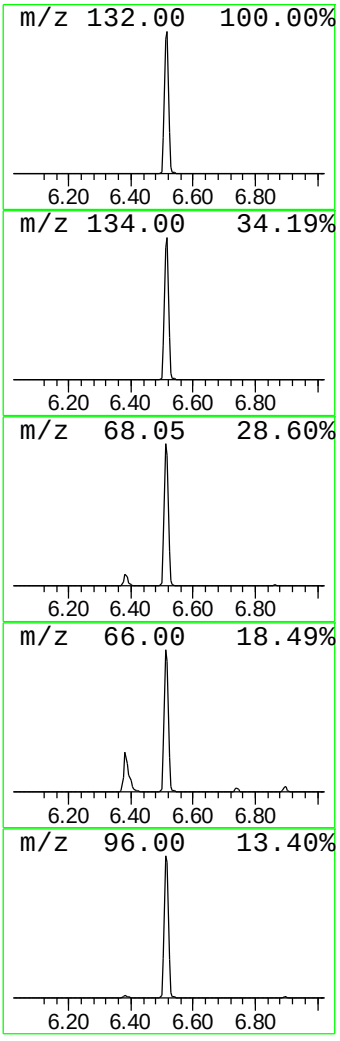
**********

Peak Number 2 unknown6.52 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.52 | 27.80 ng | 1184130 | 1,4-Dichlorobenzene-d4 | 6.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 16 |
| 3 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |
| 4 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

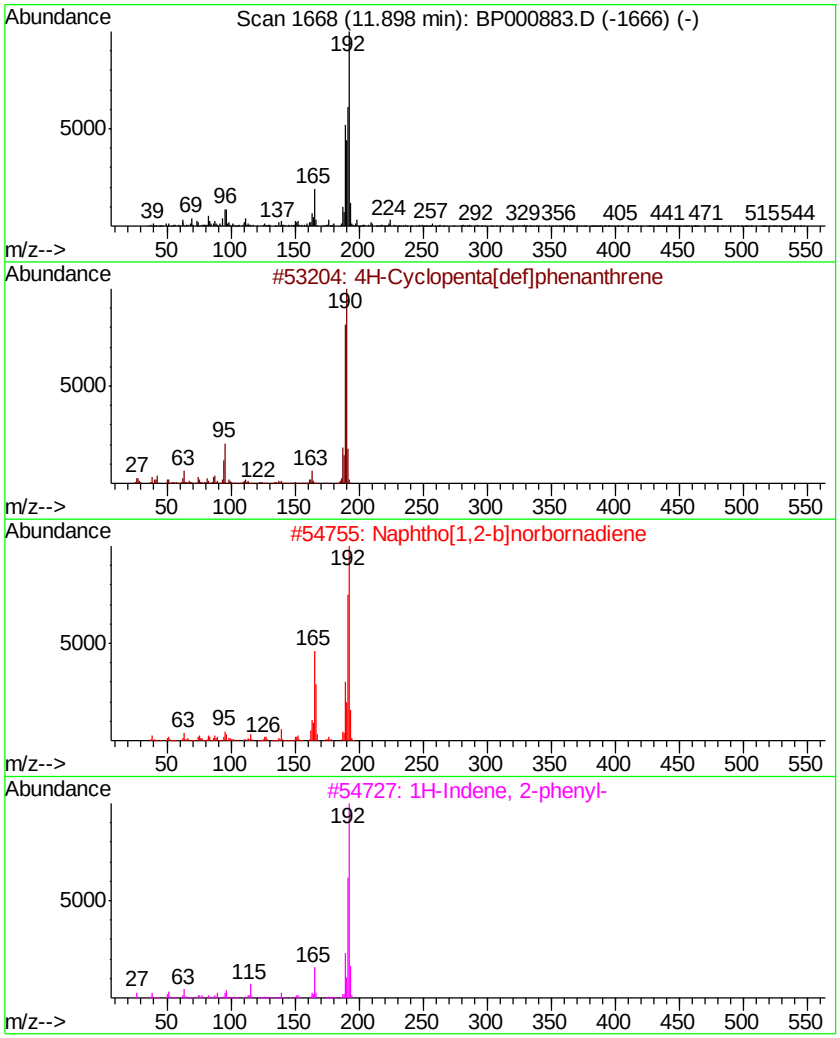
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

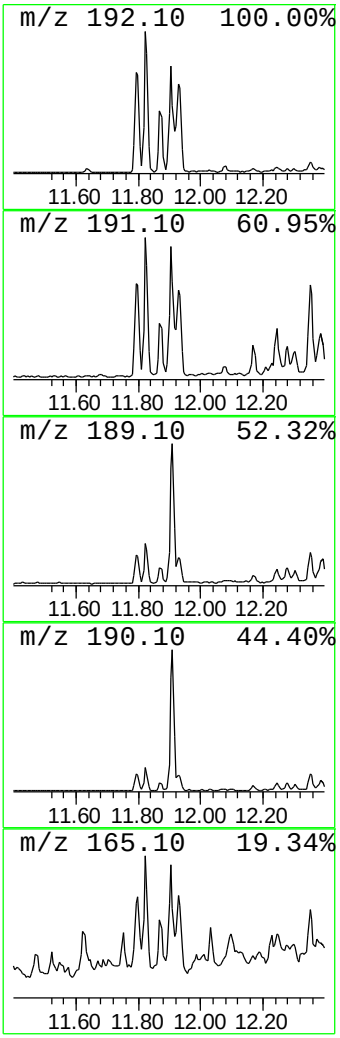
**********

Peak Number 4 unknown11.90 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.90 | 3.30 ng | 231537 | Phenanthrene-d10 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 2 | Naphtho[1,2-b]norbornadiene | 192 | C15H12 | 1000210-14-8 | 46 |
| 3 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 42 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 42 |
| 5 | Benzene, 1,1'-(1,2-propadienylid... | 192 | C15H12 | 014251-57-1 | 41 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

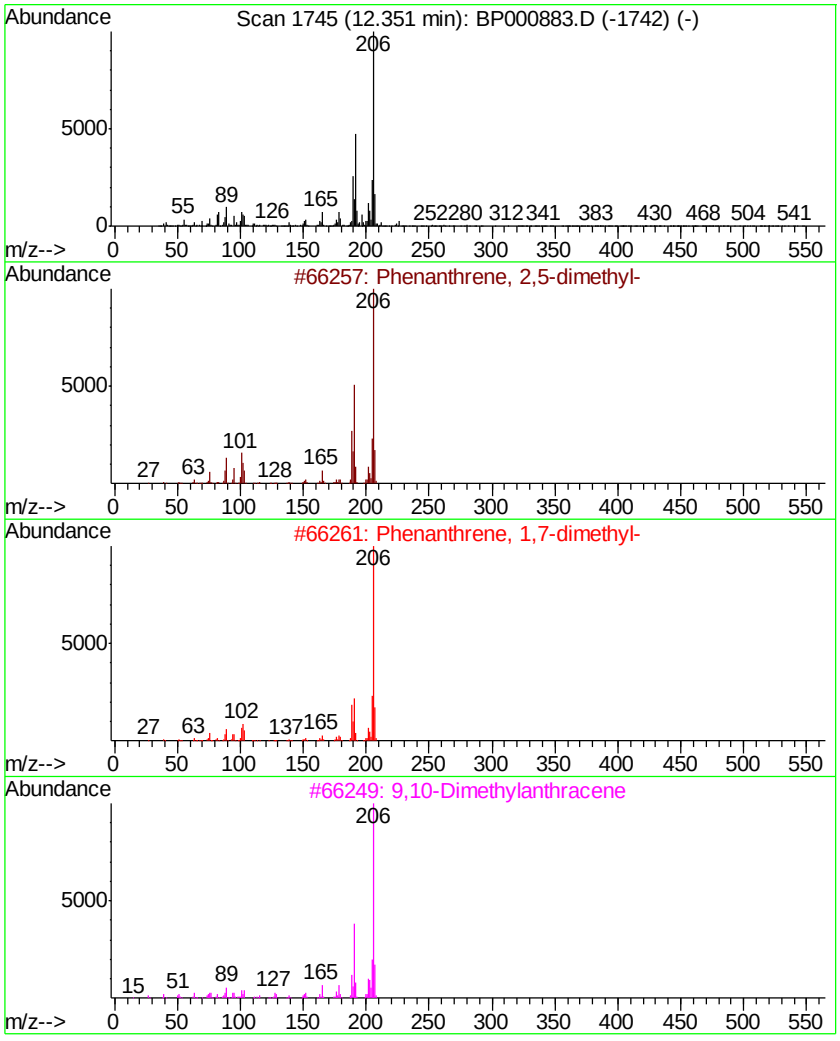
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

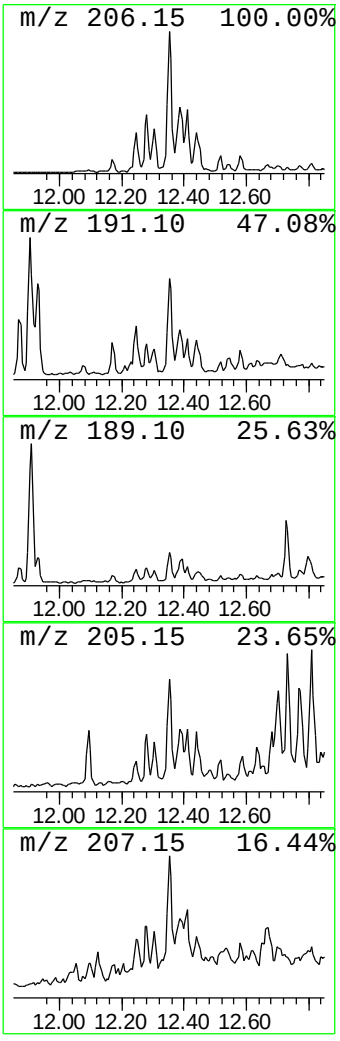
**********

Peak Number 5 Phenanthrene, 2,5-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 2.27 ng | 159152 | Phenanthrene-d10 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 98 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 5 | [14]Annulene, 1,6:8,13-bis(metha... | 206 | C16H14 | 085385-68-8 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

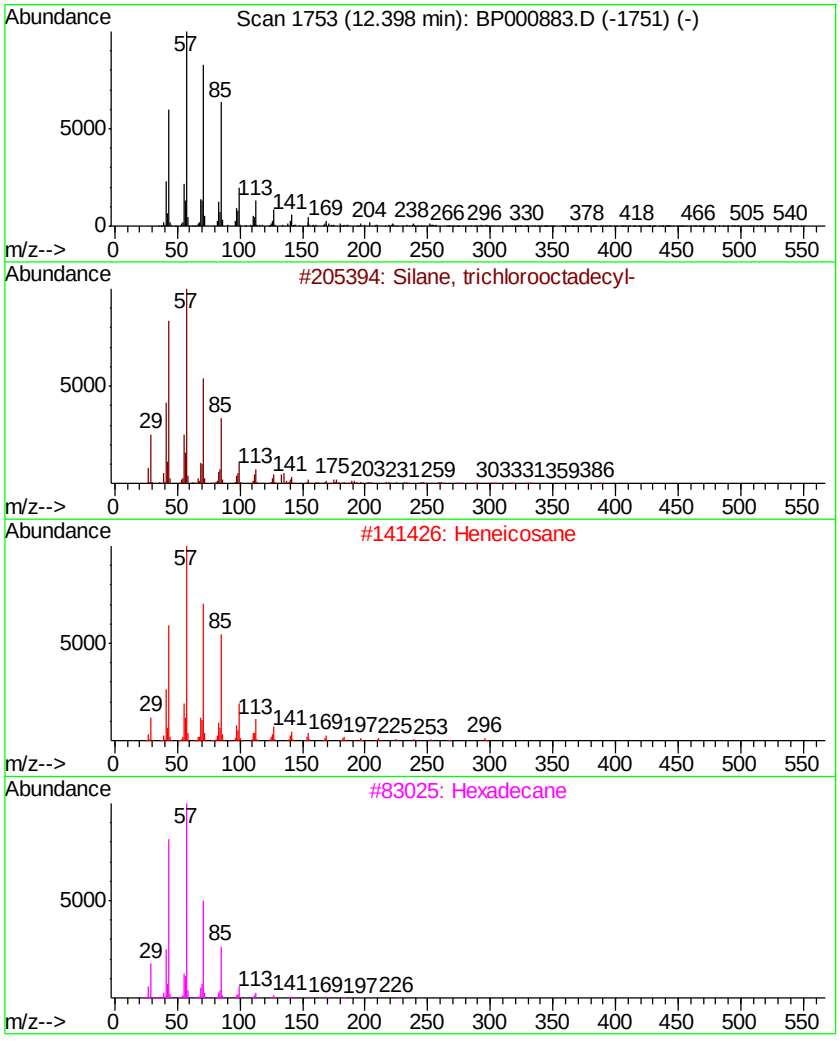
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

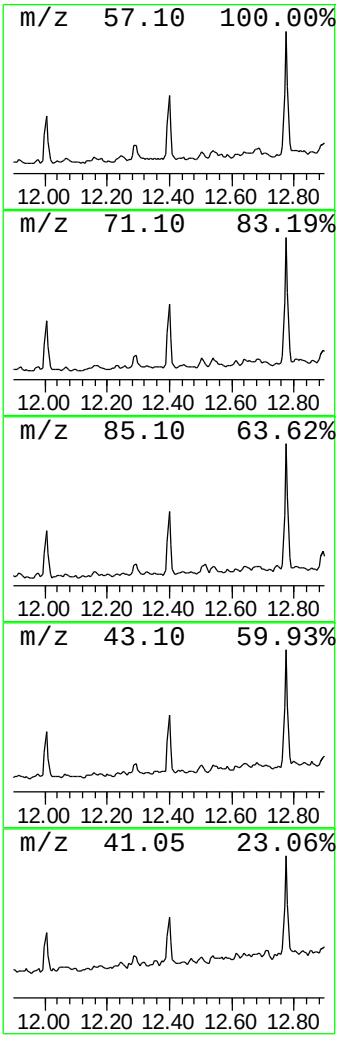
**********

Peak Number 6 Silane, trichlorooctadecyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.40 | 2.52 ng | 176895 | Phenanthrene-d10 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

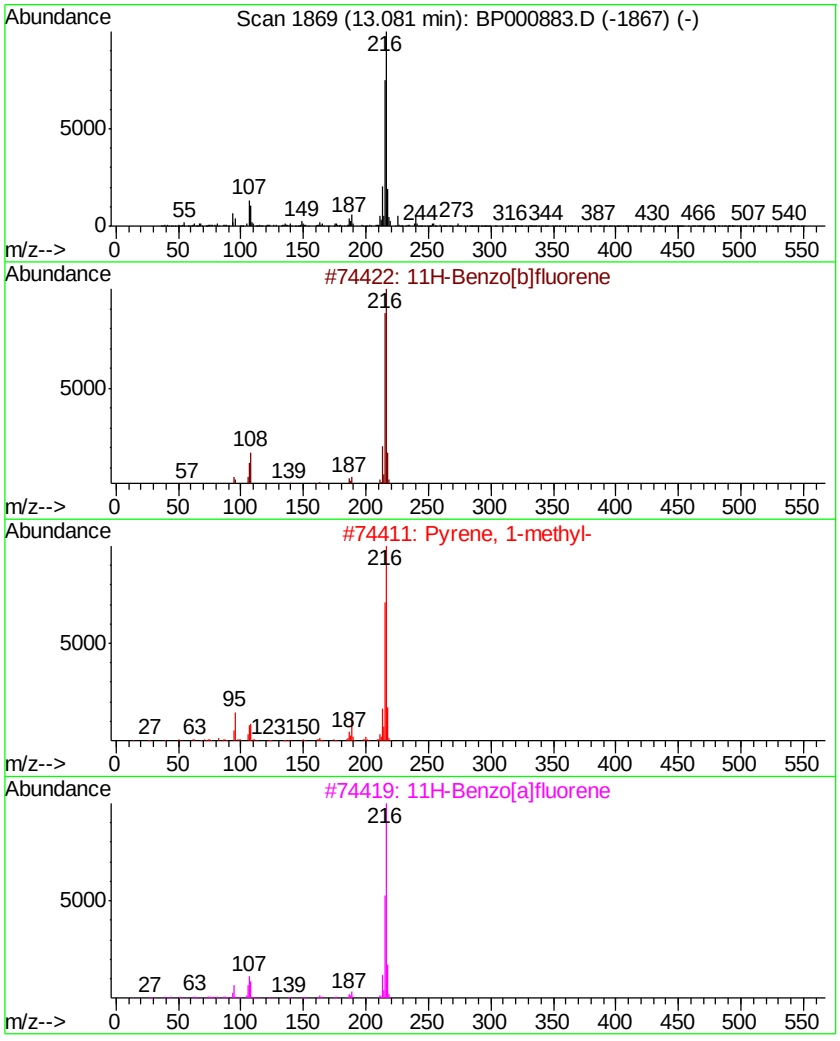
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

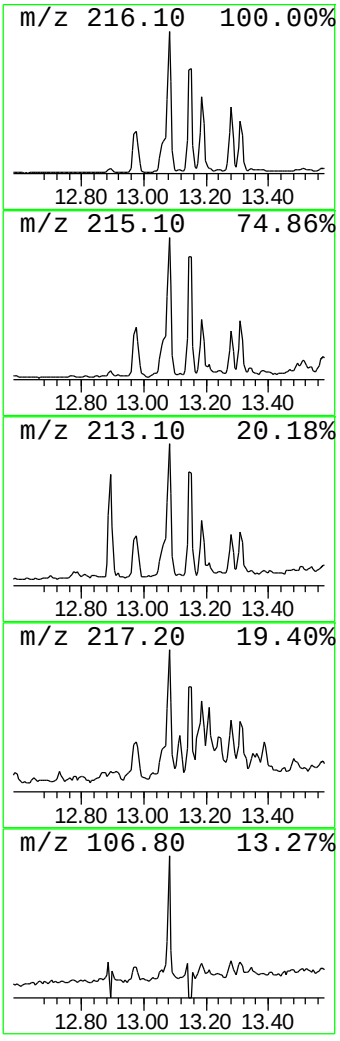
**********

Peak Number 7 11H-Benzo[b]fluorene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.08 | 2.07 ng | 224190 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

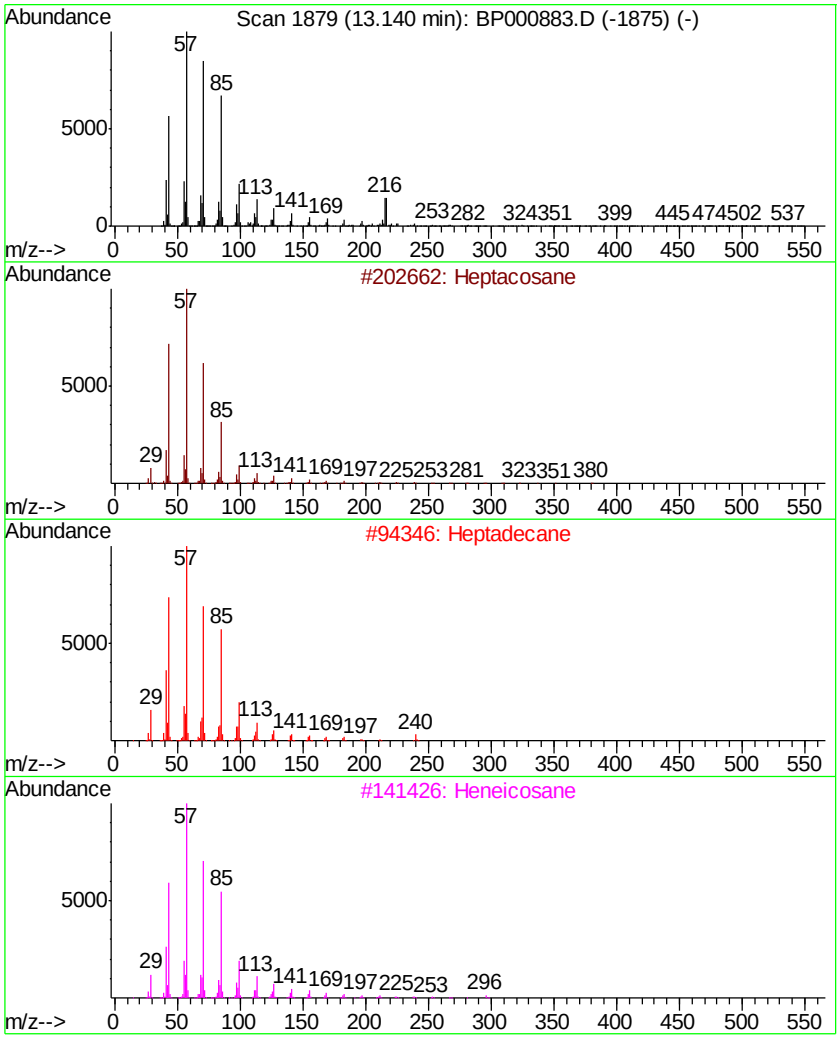
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

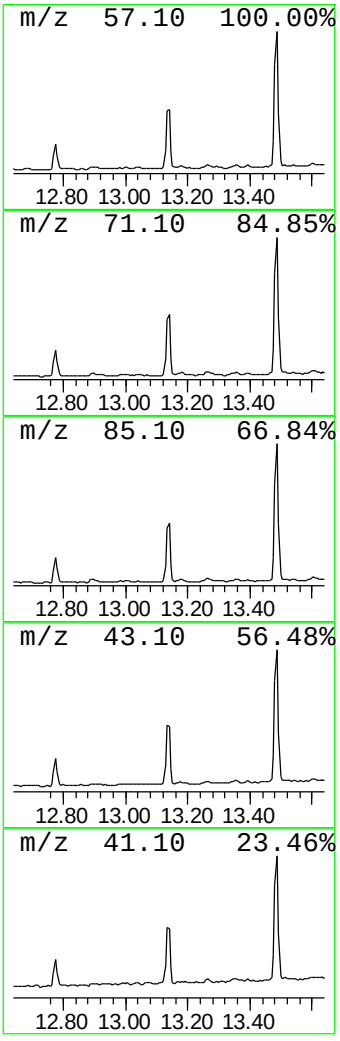
**********

Peak Number 8 Heptacosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.14 | 6.89 ng | 746371 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 98 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 87 |
| 5 | Pentacosane | 352 | C25H52 | 000629-99-2 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

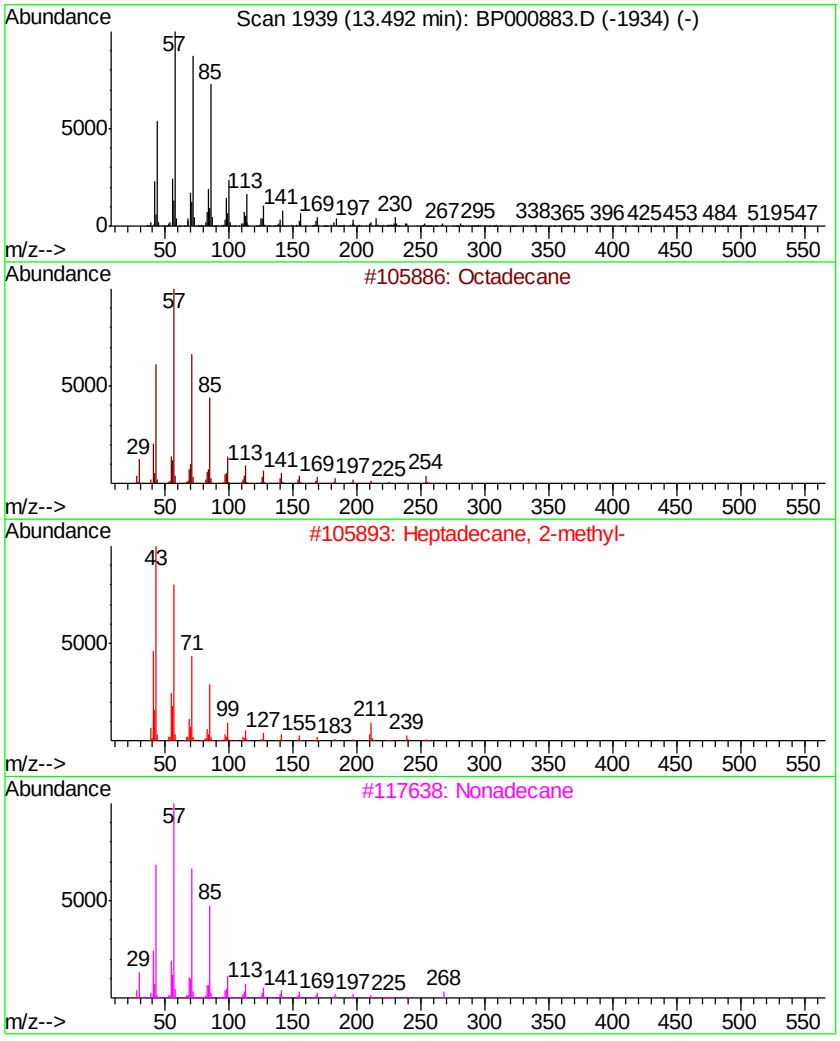
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

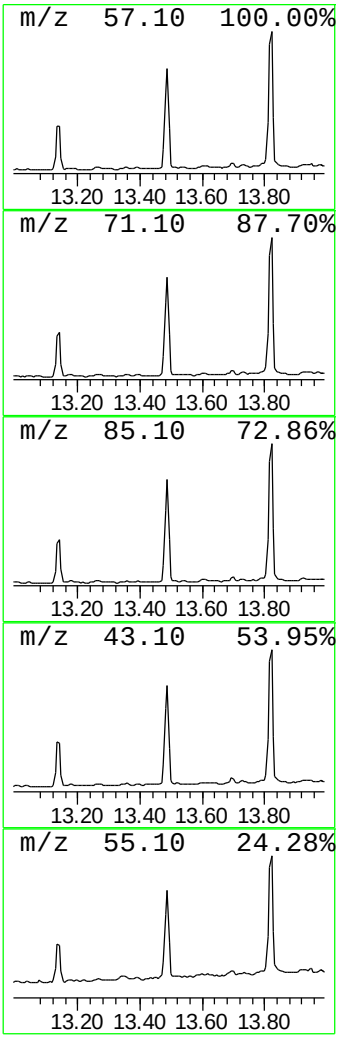
**********

Peak Number 9 Octadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.49 | 12.16 ng | 1317470 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 97 |
| 2 | Heptadecane, 2-methyl- | 254 | C18H38 | 001560-89-0 | 94 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 93 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

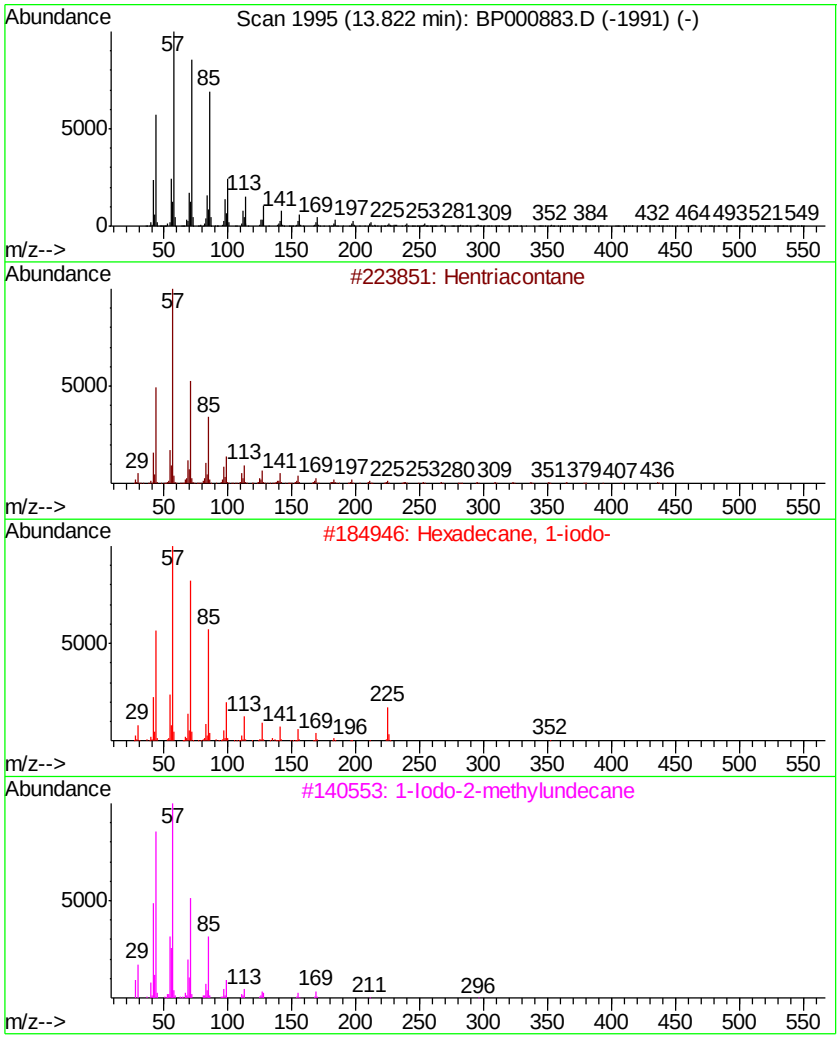
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

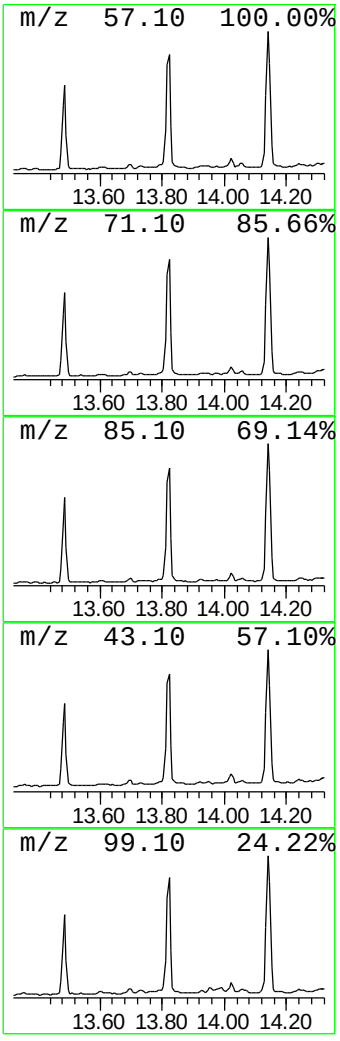
**********

Peak Number 10 Hentriacontane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.82 | 17.77 ng | 1925880 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 97 |
| 2 | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 96 |
| 3 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 94 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 94 |
| 5 | Docosane | 310 | C22H46 | 000629-97-0 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

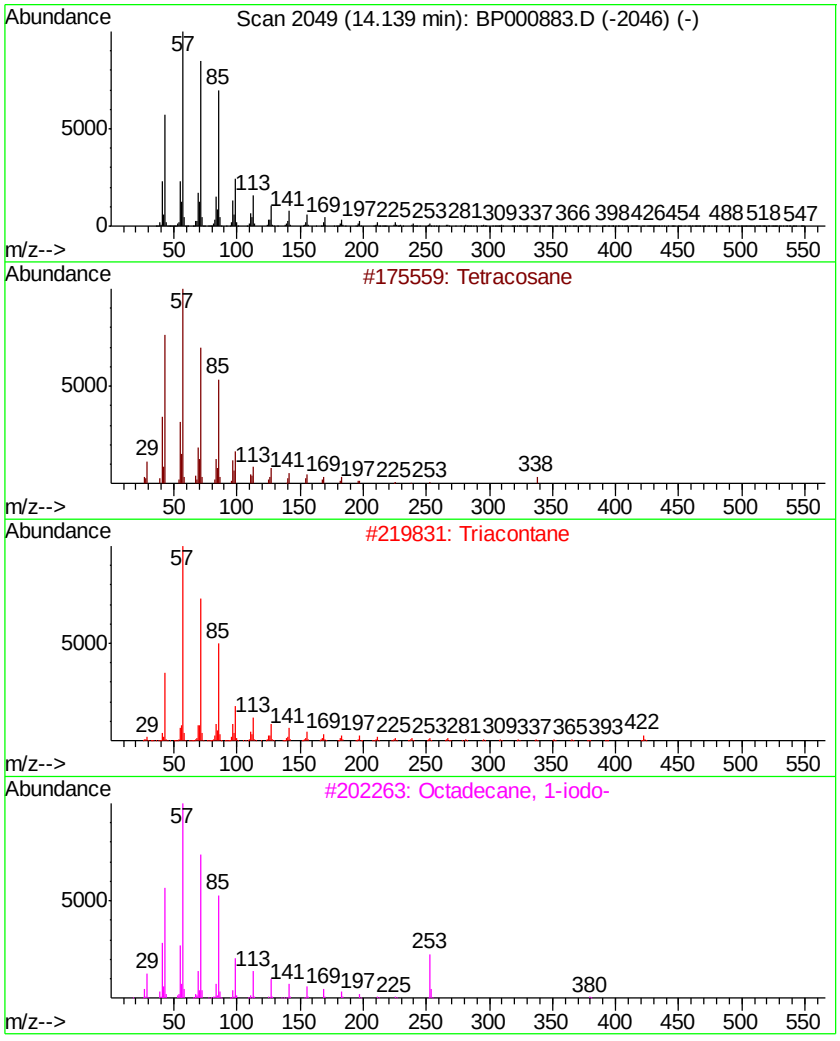
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

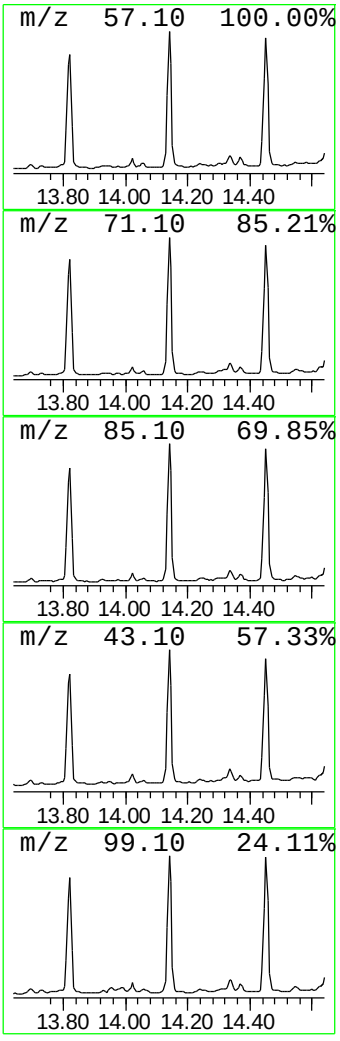
**********

Peak Number 11 Tetracosane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.14 | 21.06 ng | 2282720 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 2 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 3 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

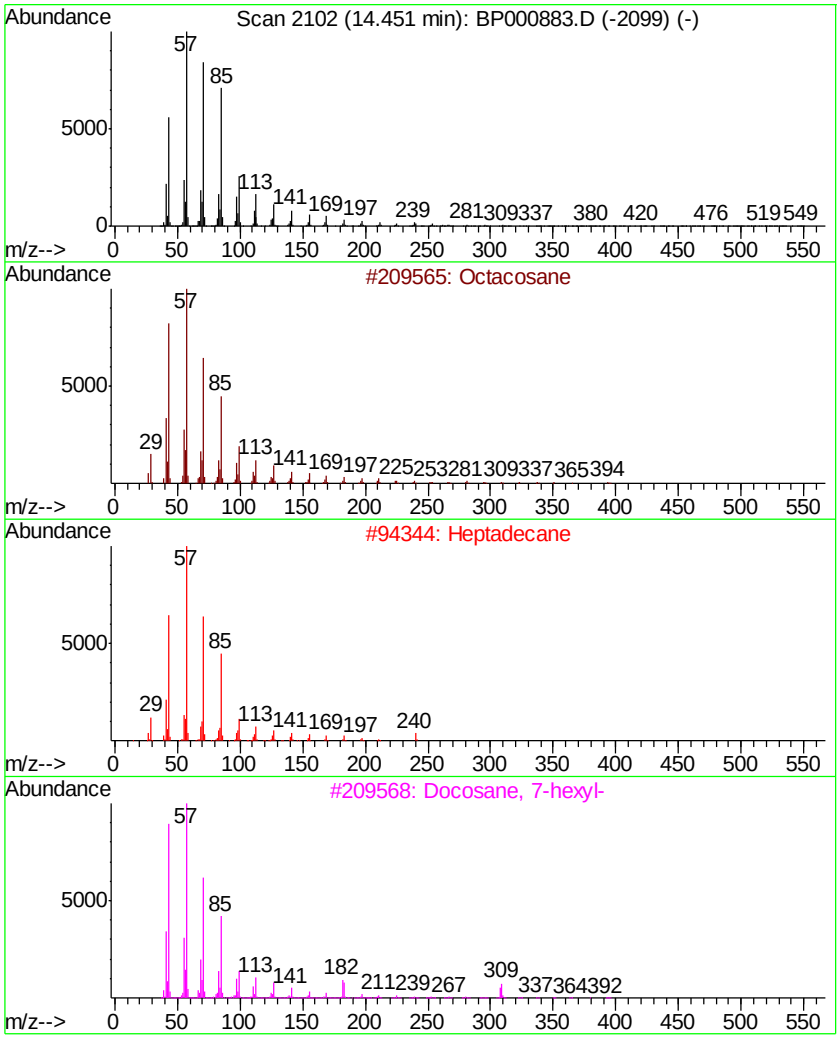
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

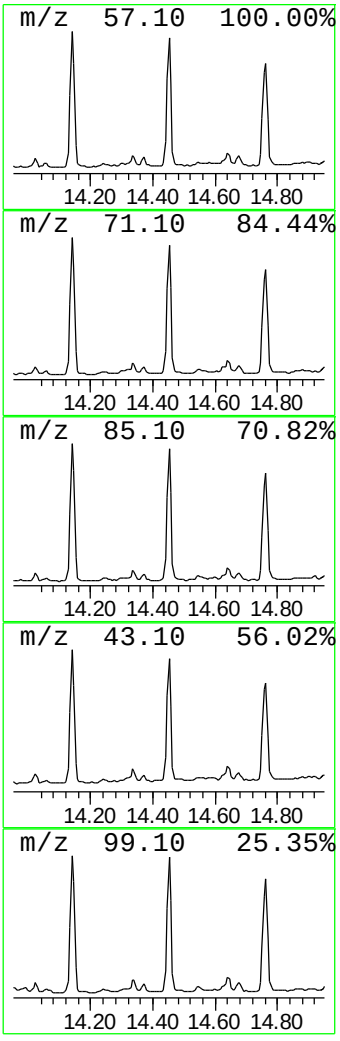
**********

Peak Number 12 Docosane, 7-hexyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.45 | 19.55 ng | 2118650 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 97 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 94 |
| 3 | Docosane, 7-hexyl- | 394 | C28H58 | 055373-86-9 | 94 |
| 4 | Eicosane, 9-octyl- | 394 | C28H58 | 013475-77-9 | 93 |
| 5 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

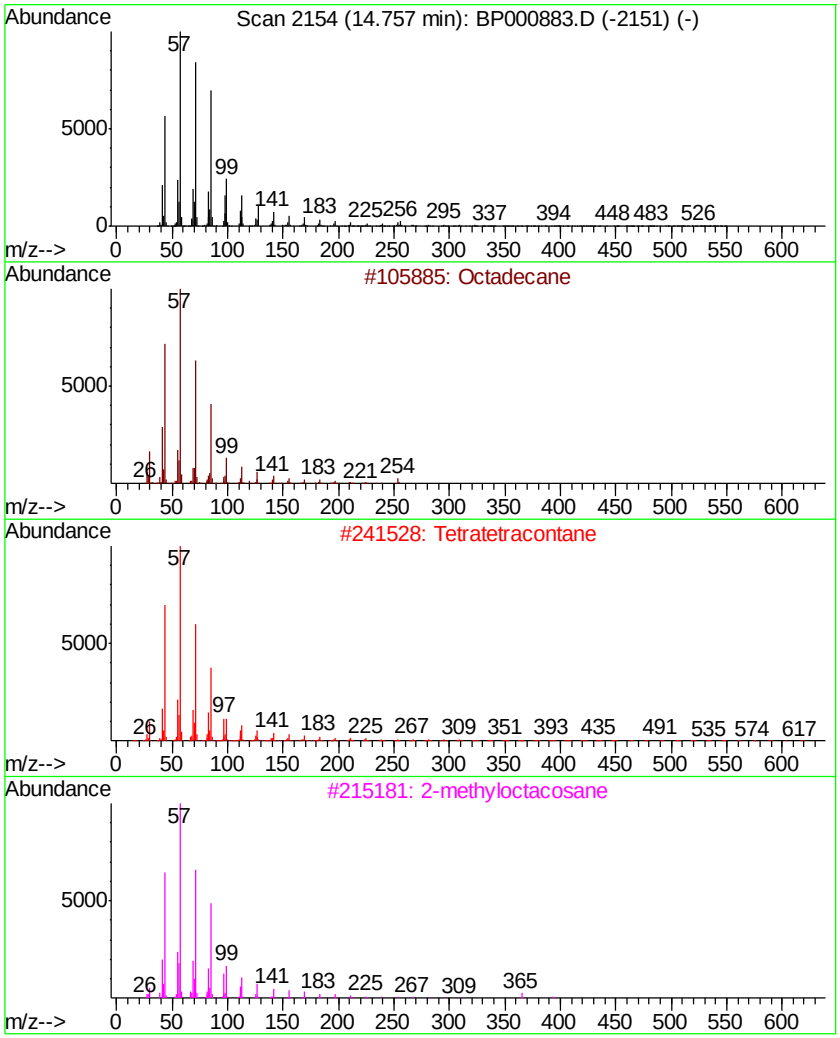
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

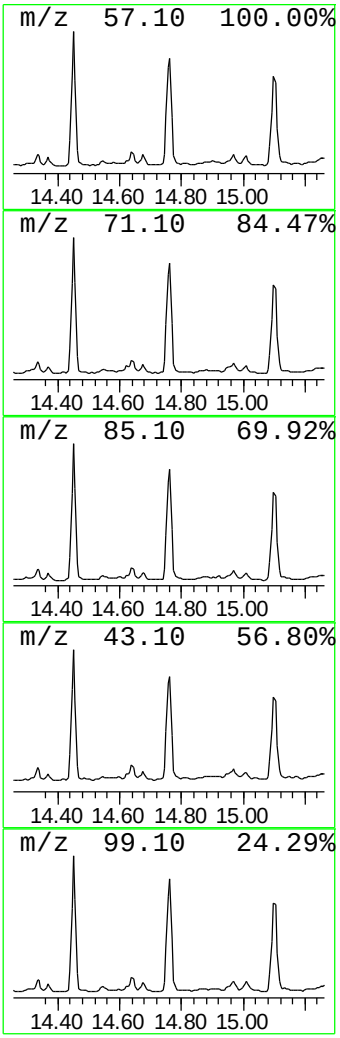
**********

Peak Number 13 Tetratetracontane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.76 | 28.23 ng | 2084480 | Perylene-d12 | 15.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 94 |
| 2 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

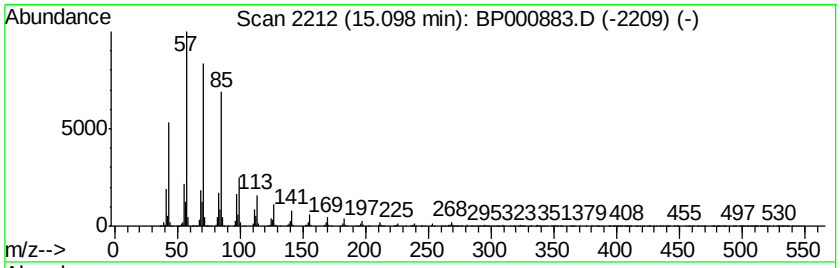
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

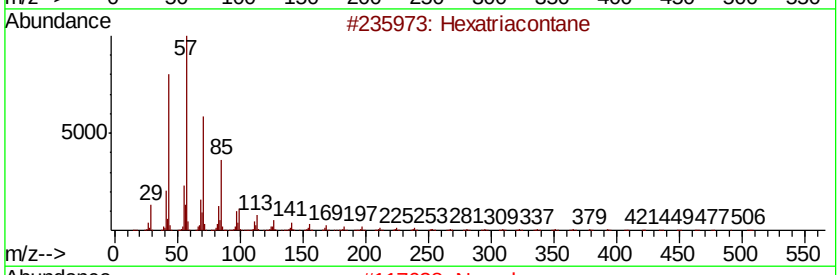
**********

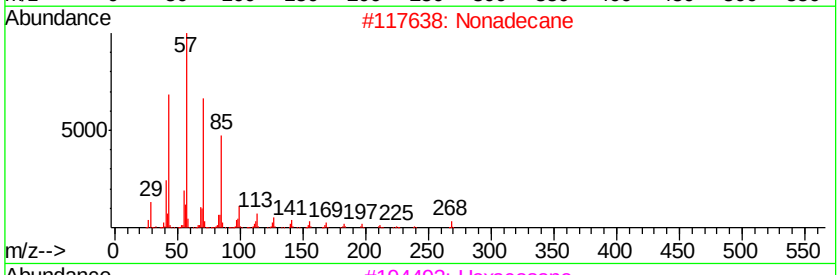
Peak Number 14 Hexatriacontane Concentration Rank 4

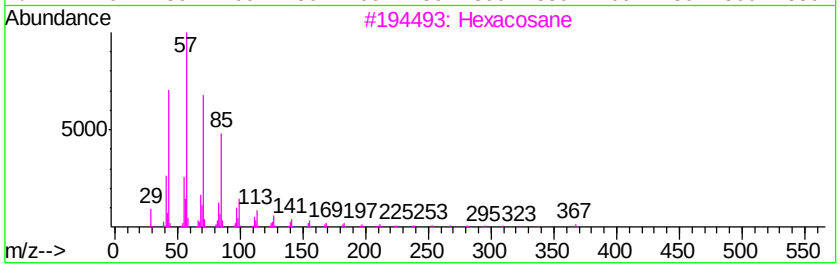
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.10 | 24.70 ng | 1823290 | Perylene-d12 | 15.45 |

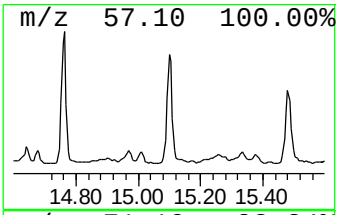
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexatriacontane | 507 | C36H74 | 000630-06-8 | 93 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 93 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 4 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 91 |
| 5 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |

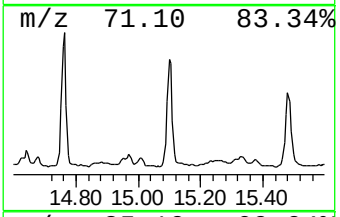


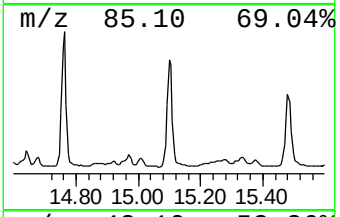



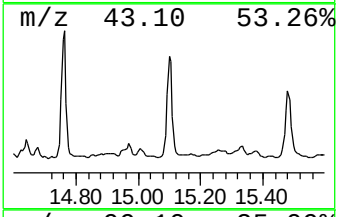



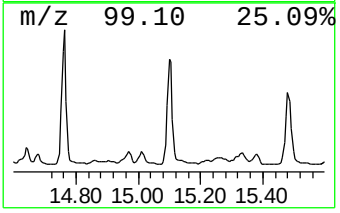



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

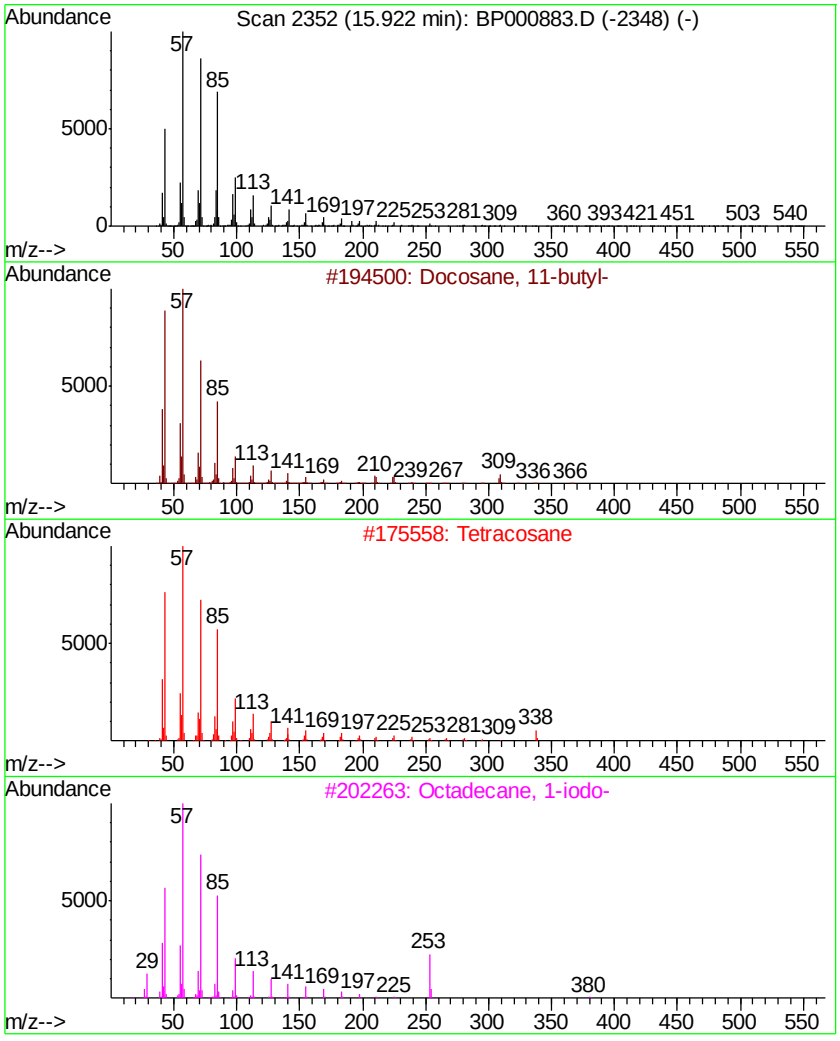
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

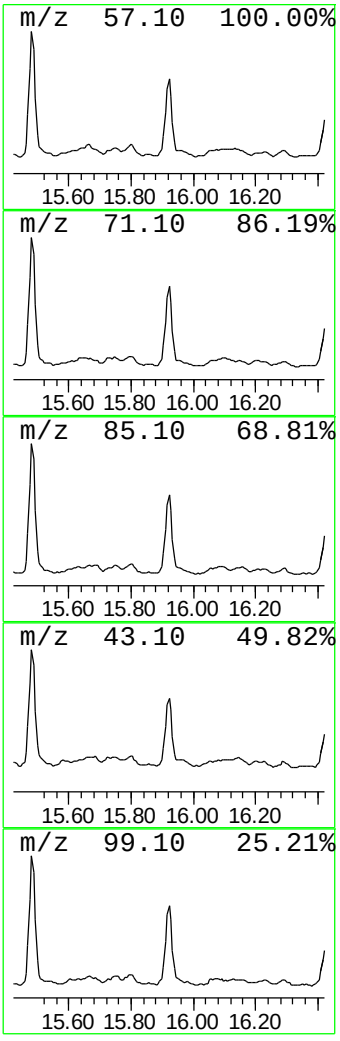
**********

Peak Number 15 Docosane, 11-butyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.92 | 10.91 ng | 805286 | Perylene-d12 | 15.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 93 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 3 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 91 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP101819\
Data File : BP000883.D
Acq On : 18 Oct 2019 18:14
Operator : JU
Sample : K5394-04 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** T-15-E1-(0-20)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.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... | 4.93 | 3.5 | ng | 150823 | 1 | 6.74 | 851891 | 20.0 |
| unknown6.52 | 6.52 | 27.8 | ng | 1184130 | 1 | 6.74 | 851891 | 20.0 |
| unknown11.90 | 11.90 | 3.3 | ng | 231537 | 4 | 11.29 | 1403150 | 20.0 |
| Phenanthrene, 2,5... | 12.35 | 2.3 | ng | 159152 | 4 | 11.29 | 1403150 | 20.0 |
| Silane, trichloro... | 12.40 | 2.5 | ng | 176895 | 4 | 11.29 | 1403150 | 20.0 |
| 11H-Benzo[b]fluorene | 13.08 | 2.1 | ng | 224190 | 5 | 13.96 | 2167700 | 20.0 |
| Heptacosane | 13.14 | 6.9 | ng | 746371 | 5 | 13.96 | 2167700 | 20.0 |
| Octadecane | 13.49 | 12.2 | ng | 1317470 | 5 | 13.96 | 2167700 | 20.0 |
| Hentriacontane | 13.82 | 17.8 | ng | 1925880 | 5 | 13.96 | 2167700 | 20.0 |
| Tetracosane | 14.14 | 21.1 | ng | 2282720 | 5 | 13.96 | 2167700 | 20.0 |
| Docosane, 7-hexyl- | 14.45 | 19.6 | ng | 2118650 | 5 | 13.96 | 2167700 | 20.0 |
| Tetratetracontane | 14.76 | 28.2 | ng | 2084480 | 6 | 15.45 | 1476610 | 20.0 |
| Hexatriacontane | 15.10 | 24.7 | ng | 1823290 | 6 | 15.45 | 1476610 | 20.0 |
| Docosane, 11-butyl- | 15.92 | 10.9 | ng | 805286 | 6 | 15.45 | 1476610 | 20.0 |