LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

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-BF061020.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 | 5.410 | 560 | 565 | 568 | rBV | 2929994 | 2744183 | 21.80% | 3.652% |
| 2 | 6.434 | 734 | 739 | 742 | rBV | 2921392 | 2766719 | 21.98% | 3.681% |
| 3 | 6.798 | 797 | 801 | 804 | rBV | 1077630 | 829817 | 6.59% | 1.104% |
| 4 | 6.957 | 823 | 828 | 831 | rBV | 2800612 | 2522738 | 20.04% | 3.357% |
| 5 | 7.357 | 892 | 896 | 899 | rBV | 2014008 | 1895258 | 15.06% | 2.522% |
| 6 | 8.081 | 1014 | 1019 | 1022 | rBV | 1303752 | 1128088 | 8.96% | 1.501% |
| 7 | 8.898 | 1156 | 1158 | 1161 | rBV | 157699 | 131248 | 1.04% | 0.175% |
| 8 | 9.157 | 1198 | 1202 | 1205 | rVV | 3846577 | 3466149 | 27.54% | 4.612% |
| 9 | 9.233 | 1211 | 1215 | 1220 | rBV2 | 249122 | 287669 | 2.29% | 0.383% |
| 10 | 9.410 | 1242 | 1245 | 1252 | rVB4 | 83900 | 147516 | 1.17% | 0.196% |
| 11 | 9.545 | 1265 | 1268 | 1272 | rVV2 | 465421 | 574606 | 4.56% | 0.765% |
| 12 | 9.580 | 1272 | 1274 | 1277 | rVV | 182975 | 172678 | 1.37% | 0.230% |
| 13 | 9.616 | 1277 | 1280 | 1282 | rVB2 | 156470 | 141727 | 1.13% | 0.189% |
| 14 | 9.763 | 1303 | 1305 | 1310 | rVB | 501458 | 427984 | 3.40% | 0.569% |
| 15 | 9.833 | 1313 | 1317 | 1320 | rVB | 1334967 | 1198992 | 9.52% | 1.595% |
| 16 | 9.998 | 1342 | 1345 | 1347 | rBV2 | 89616 | 131330 | 1.04% | 0.175% |
| 17 | 10.086 | 1356 | 1360 | 1364 | rBV4 | 176810 | 228889 | 1.82% | 0.305% |
| 18 | 10.151 | 1368 | 1371 | 1378 | rBV7 | 101554 | 221187 | 1.76% | 0.294% |
| 19 | 10.263 | 1387 | 1390 | 1393 | rVB | 783770 | 604068 | 4.80% | 0.804% |
| 20 | 10.486 | 1422 | 1428 | 1433 | rBV | 342588 | 483496 | 3.84% | 0.643% |
| 21 | 10.622 | 1445 | 1451 | 1454 | rBV | 2331525 | 2260539 | 17.96% | 3.008% |
| 22 | 10.739 | 1468 | 1471 | 1479 | rVB | 876431 | 1109196 | 8.81% | 1.476% |
| 23 | 10.839 | 1486 | 1488 | 1491 | rBV | 253506 | 175707 | 1.40% | 0.234% |
| 24 | 11.186 | 1543 | 1547 | 1549 | rBV | 878324 | 727410 | 5.78% | 0.968% |
| 25 | 11.216 | 1549 | 1552 | 1557 | rVB | 389965 | 432957 | 3.44% | 0.576% |
| 26 | 11.316 | 1565 | 1569 | 1571 | rBV | 1499083 | 1233007 | 9.80% | 1.641% |
| 27 | 11.339 | 1571 | 1573 | 1575 | rVB | 168969 | 129825 | 1.03% | 0.173% |
| 28 | 11.610 | 1616 | 1619 | 1621 | rBV | 827690 | 668573 | 5.31% | 0.890% |
| 29 | 11.633 | 1621 | 1623 | 1626 | rVB2 | 330388 | 262263 | 2.08% | 0.349% |
| 30 | 11.716 | 1632 | 1637 | 1640 | rBV | 6102269 | 5782835 | 45.94% | 7.695% |
| 31 | 11.851 | 1656 | 1660 | 1662 | rBV2 | 493532 | 486975 | 3.87% | 0.648% |
| 32 | 12.016 | 1684 | 1688 | 1697 | rVB | 769195 | 862822 | 6.85% | 1.148% |
| 33 | 12.116 | 1702 | 1705 | 1707 | rBV | 183018 | 157133 | 1.25% | 0.209% |
| 34 | 12.416 | 1749 | 1756 | 1757 | rBV | 7097249 | 12588046 | 100.00% | 16.750% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

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-BF061020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.439 | 1757 | 1760 | 1765 | rVB3 | 7424837 | 12029776 | 95.57% | 16.007% |
| 36 | 12.510 | 1768 | 1772 | 1774 | rBV | 3956182 | 3586194 | 28.49% | 4.772% |
| 37 | 12.563 | 1779 | 1781 | 1784 | rBV2 | 336720 | 290863 | 2.31% | 0.387% |
| 38 | 12.739 | 1808 | 1811 | 1813 | rBV | 821063 | 775141 | 6.16% | 1.031% |
| 39 | 12.780 | 1816 | 1818 | 1824 | rVB2 | 553628 | 556992 | 4.42% | 0.741% |
| 40 | 12.904 | 1835 | 1839 | 1843 | rBV | 3746365 | 3782260 | 30.05% | 5.033% |
| 41 | 13.063 | 1863 | 1866 | 1868 | rBV | 873218 | 788154 | 6.26% | 1.049% |
| 42 | 13.080 | 1868 | 1869 | 1873 | rVV2 | 340886 | 369010 | 2.93% | 0.491% |
| 43 | 13.133 | 1876 | 1878 | 1879 | rVV | 634409 | 524198 | 4.16% | 0.698% |
| 44 | 13.151 | 1879 | 1881 | 1887 | rVB | 844721 | 728807 | 5.79% | 0.970% |
| 45 | 13.227 | 1891 | 1894 | 1897 | rBV | 701752 | 560570 | 4.45% | 0.746% |
| 46 | 13.251 | 1897 | 1898 | 1902 | rVV3 | 124496 | 141050 | 1.12% | 0.188% |
| 47 | 13.292 | 1903 | 1905 | 1910 | rVB4 | 126271 | 173250 | 1.38% | 0.231% |
| 48 | 13.386 | 1918 | 1921 | 1924 | rVB3 | 204674 | 198461 | 1.58% | 0.264% |
| 49 | 13.474 | 1933 | 1936 | 1942 | rVB | 353187 | 397816 | 3.16% | 0.529% |
| 50 | 13.657 | 1963 | 1967 | 1971 | rVB2 | 227527 | 285514 | 2.27% | 0.380% |
| 51 | 13.804 | 1988 | 1992 | 1994 | rBV3 | 287685 | 355493 | 2.82% | 0.473% |
| 52 | 13.892 | 2005 | 2007 | 2011 | rVB | 198648 | 171119 | 1.36% | 0.228% |
| 53 | 13.951 | 2012 | 2017 | 2020 | rBV2 | 800198 | 840722 | 6.68% | 1.119% |
| 54 | 14.115 | 2043 | 2045 | 2051 | rVB | 128566 | 139408 | 1.11% | 0.186% |
| 55 | 14.421 | 2092 | 2097 | 2101 | rBV2 | 208052 | 306521 | 2.44% | 0.408% |
| 56 | 14.974 | 2188 | 2191 | 2194 | rBV | 121953 | 172908 | 1.37% | 0.230% |
| 57 | 15.392 | 2258 | 2262 | 2265 | rBV | 587553 | 701645 | 5.57% | 0.934% |
| 58 | 16.074 | 2374 | 2378 | 2387 | rVB3 | 75028 | 147350 | 1.17% | 0.196% |
| 59 | 17.780 | 2665 | 2668 | 2679 | rVB3 | 60988 | 147207 | 1.17% | 0.196% |

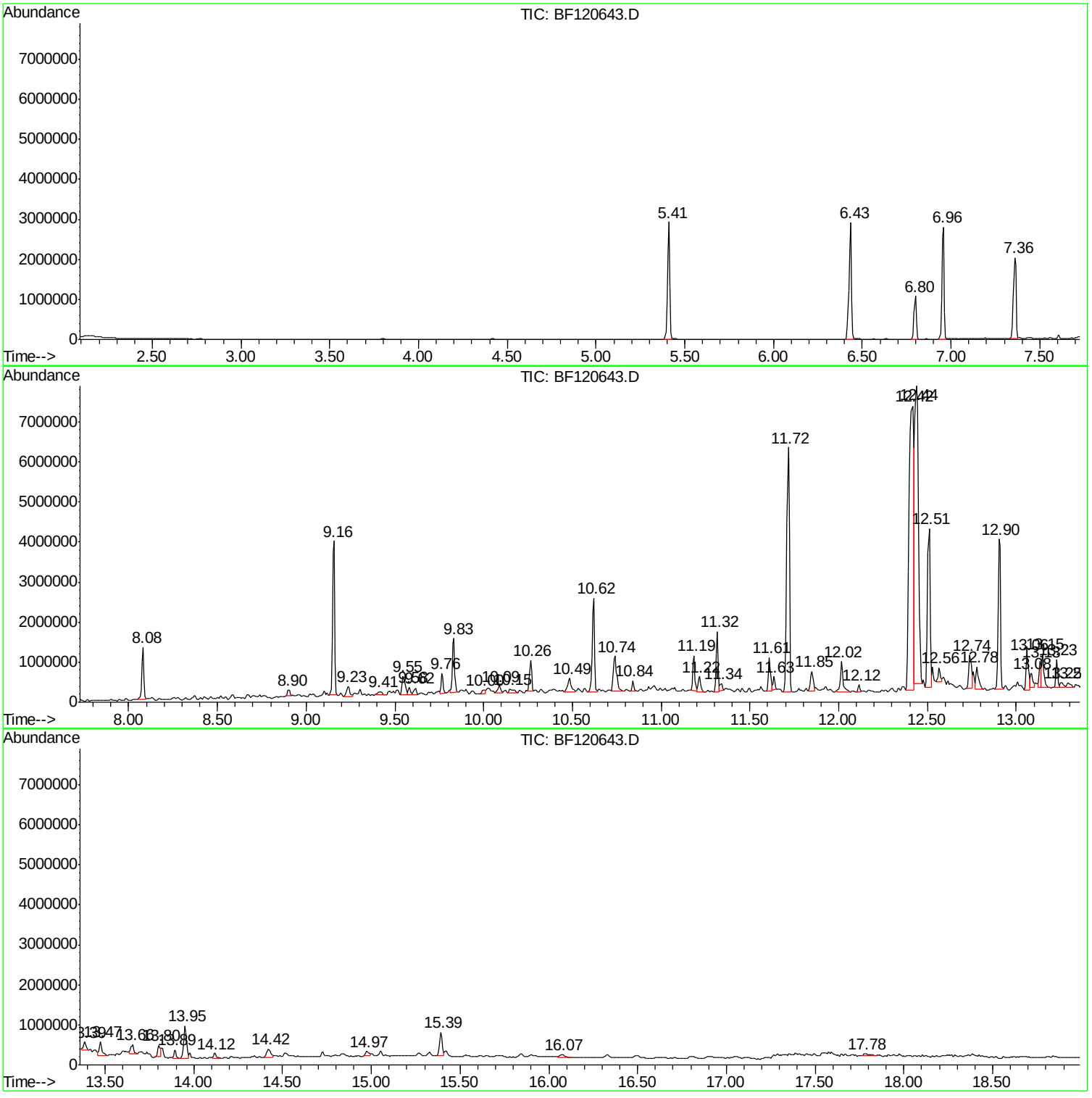
Sum of corrected areas: 75152059

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

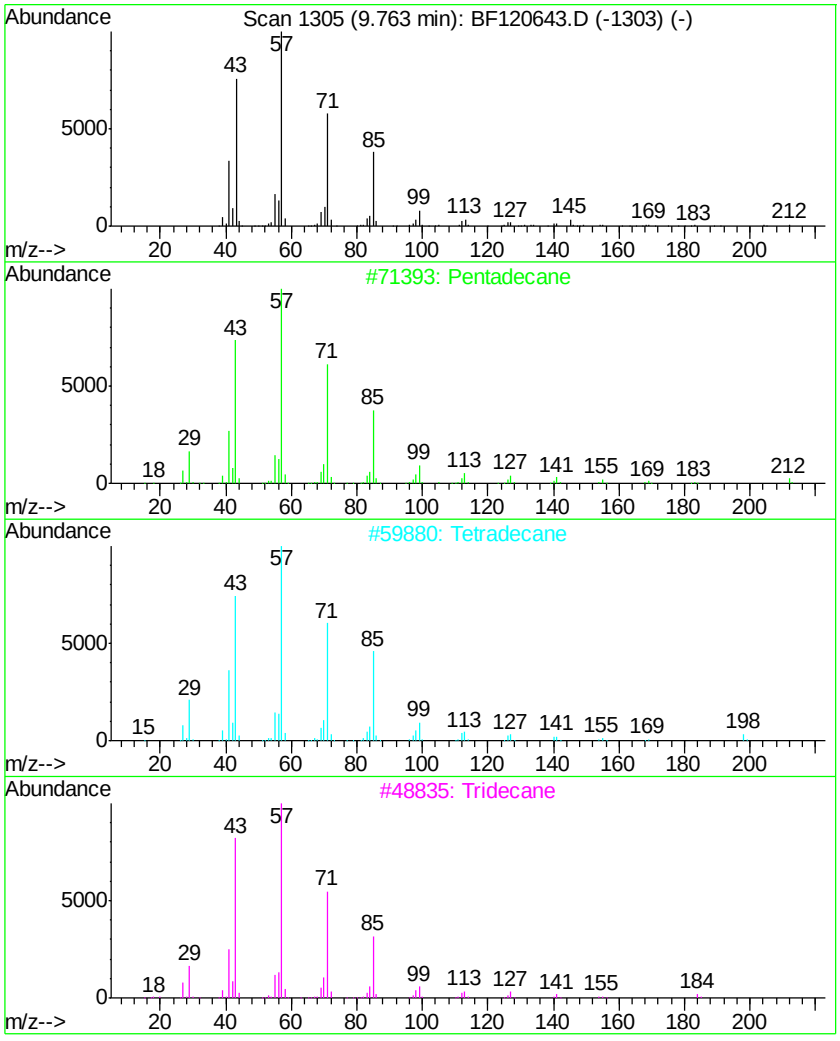
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

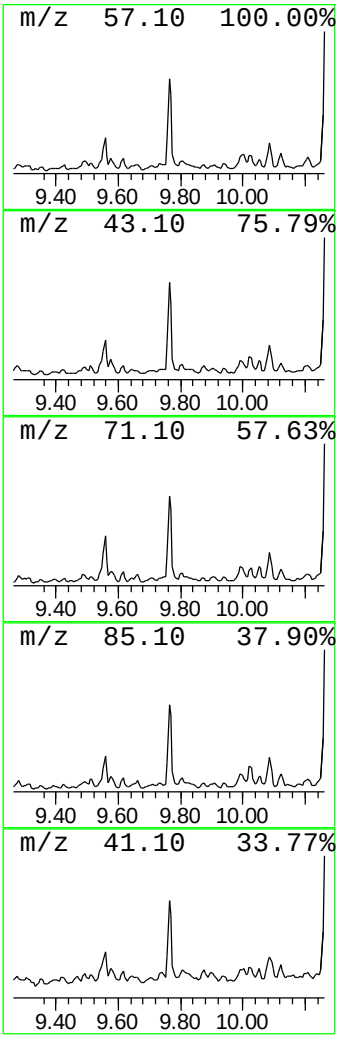
**********

Peak Number 2 Pentadecane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.76 | 7.14 ng | 427984 | Acenaphthene-d10 | 9.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 94 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 5 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 78 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

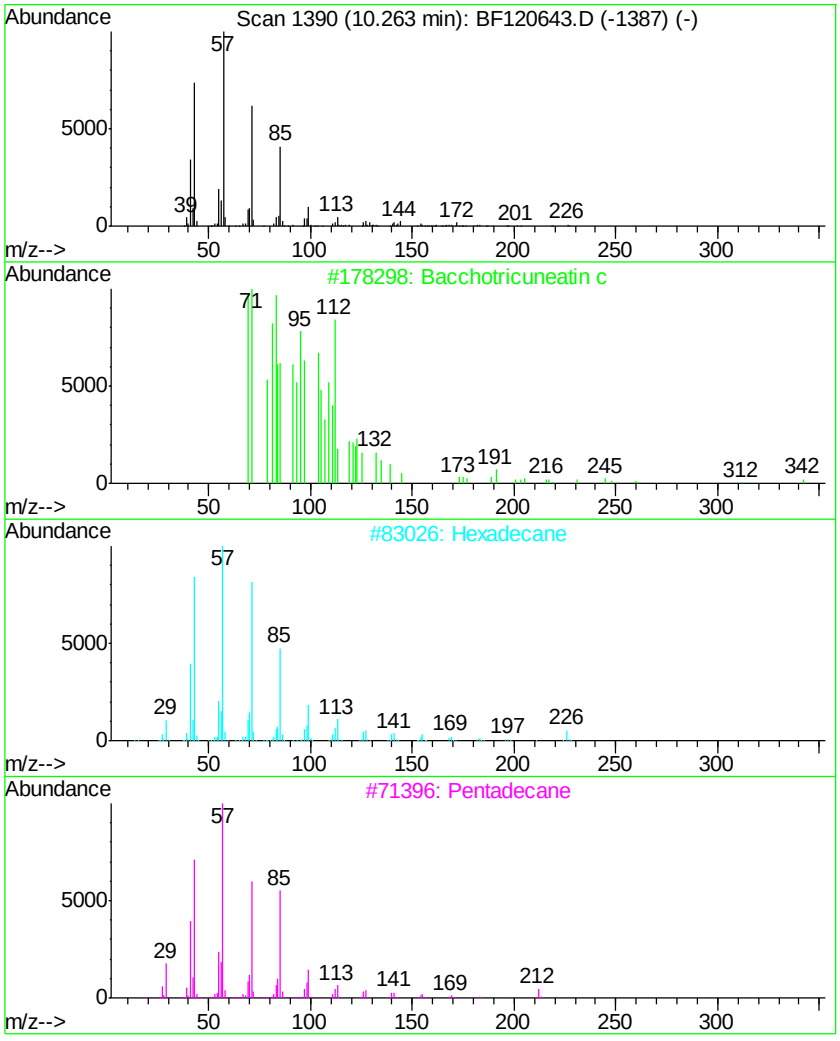
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

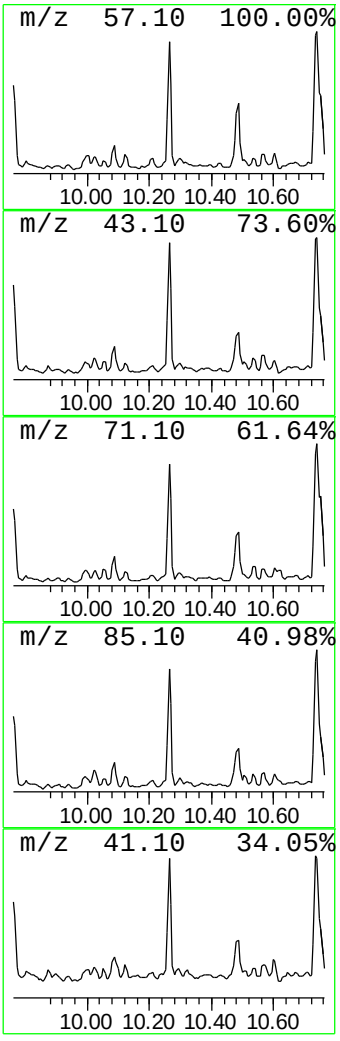
**********

Peak Number 3 Bacchotricuneatin c Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.26 | 10.08 ng | 604068 | Acenaphthene-d10 | 9.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 98 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 93 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 5 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

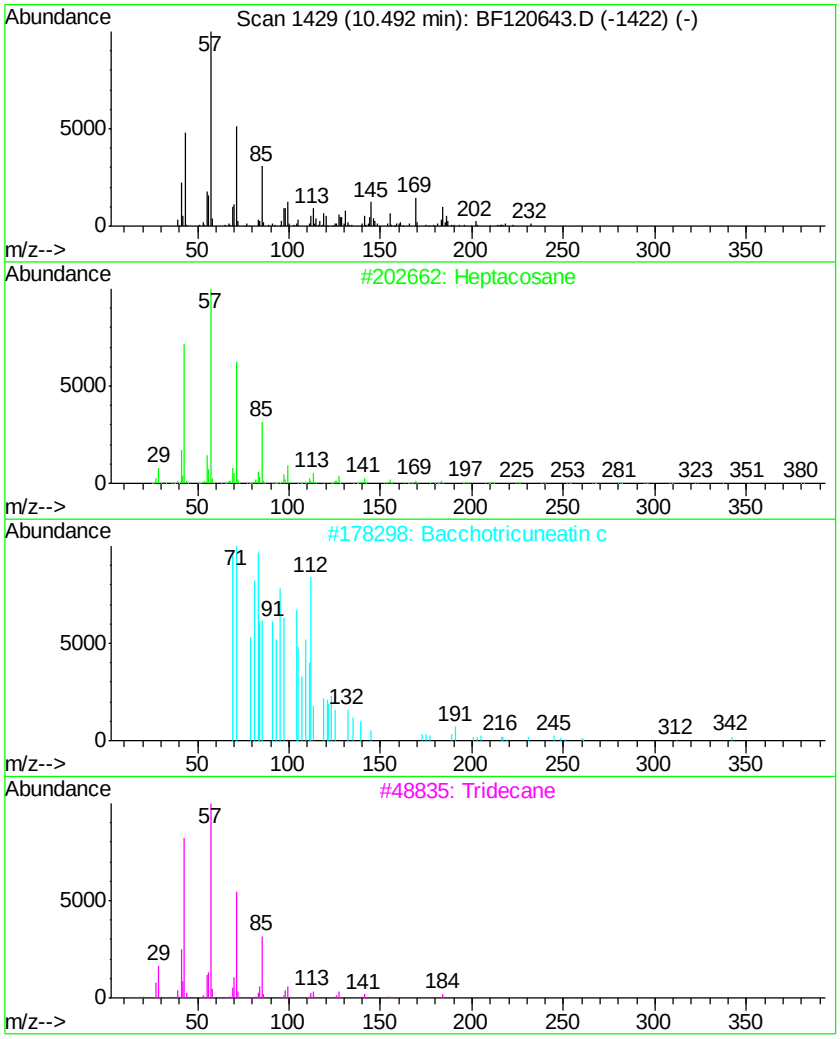
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

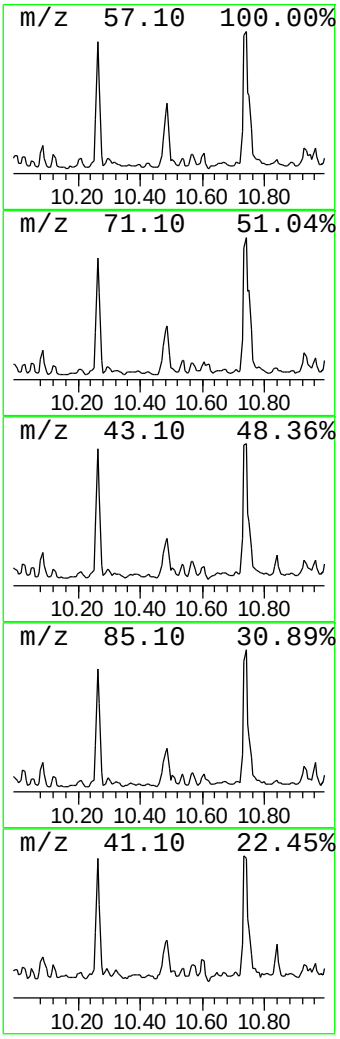
**********

Peak Number 4 Heptacosane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.49 | 8.07 ng | 483496 | Acenaphthene-d10 | 9.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 86 |
| 2 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 83 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 80 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 72 |
| 5 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

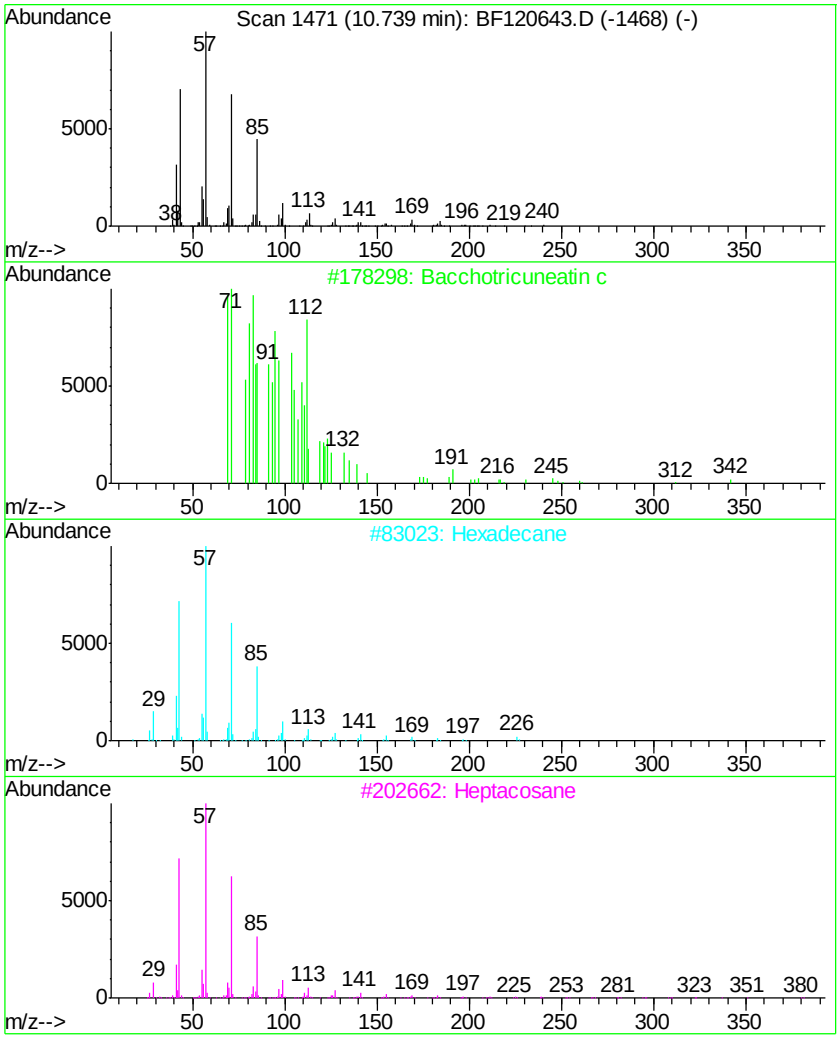
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

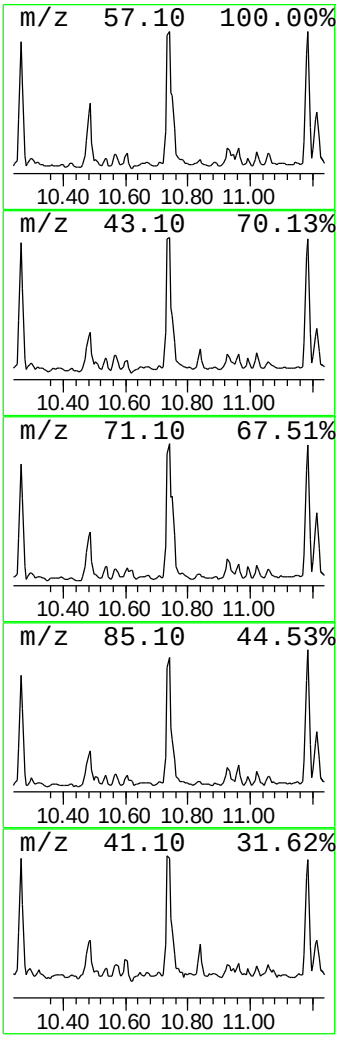
**********

Peak Number 5 Hexadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.74 | 17.99 ng | 1109200 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 97 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

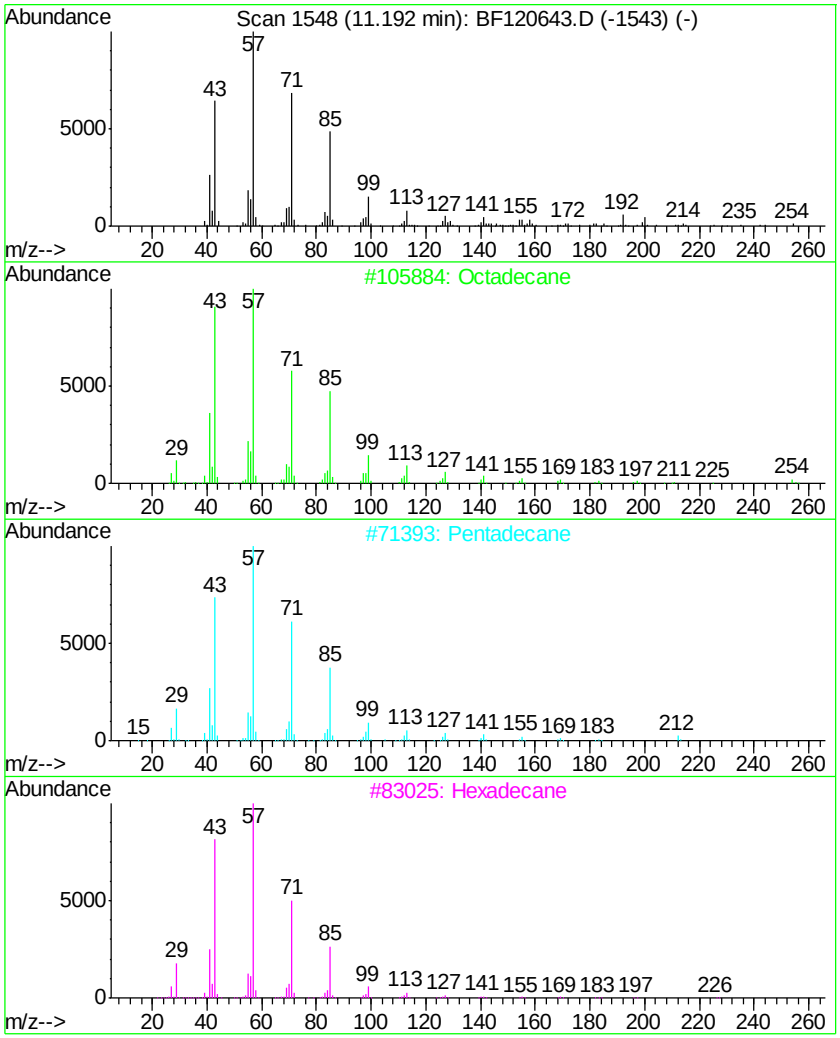
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

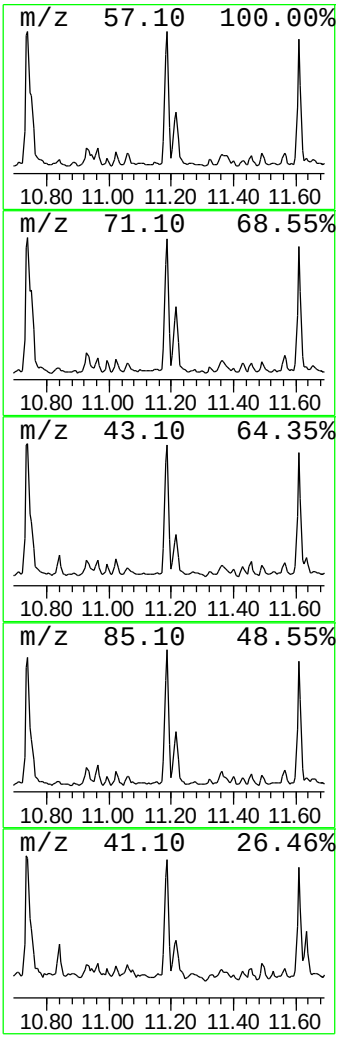
**********

Peak Number 6 Octadecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.19 | 11.80 ng | 727410 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

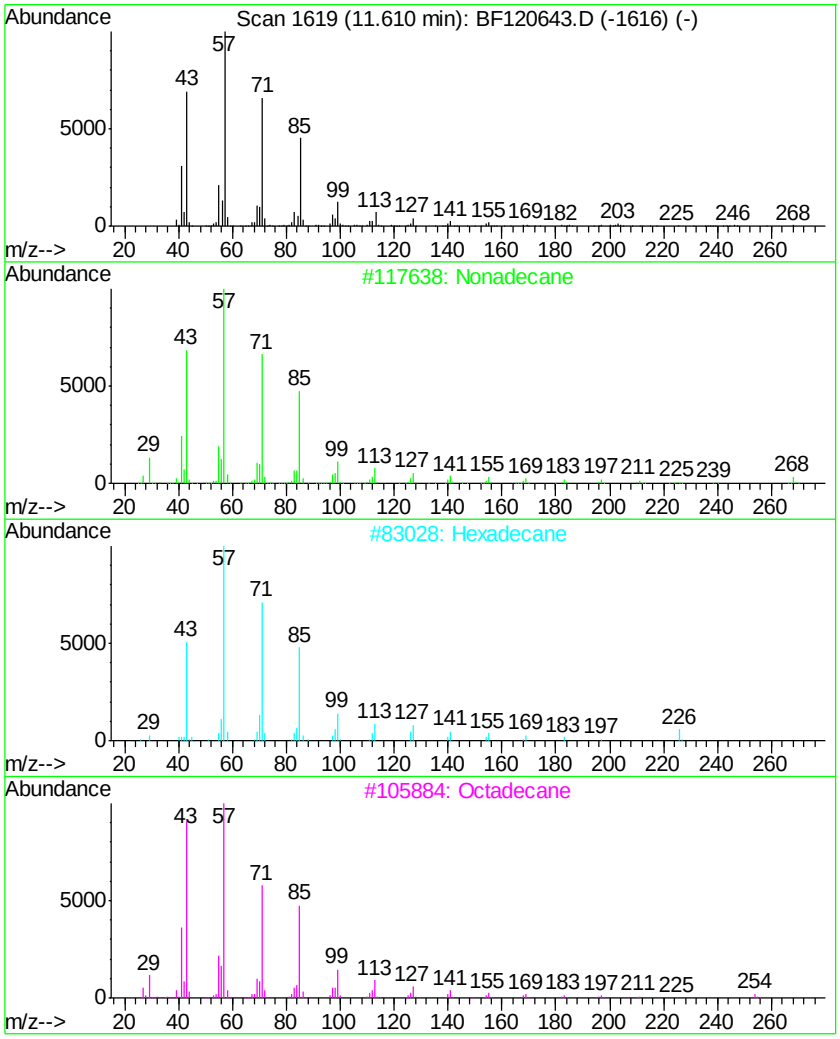
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

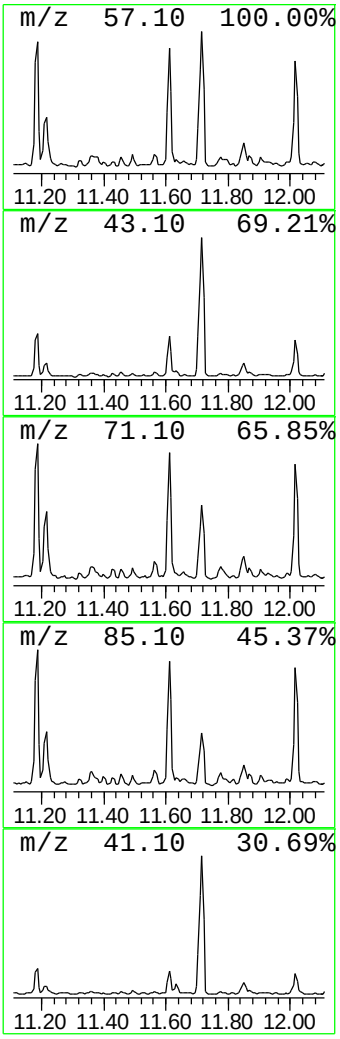
**********

Peak Number 7 Nonadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.61 | 10.84 ng | 668573 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 91 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

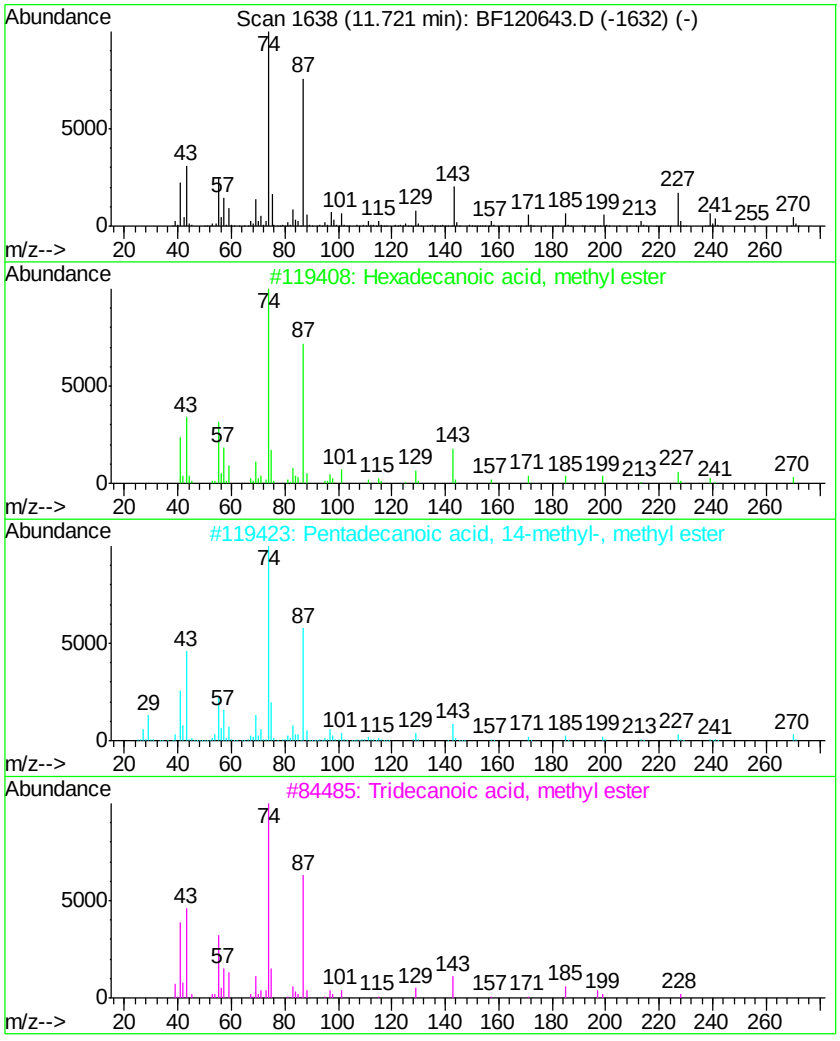
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

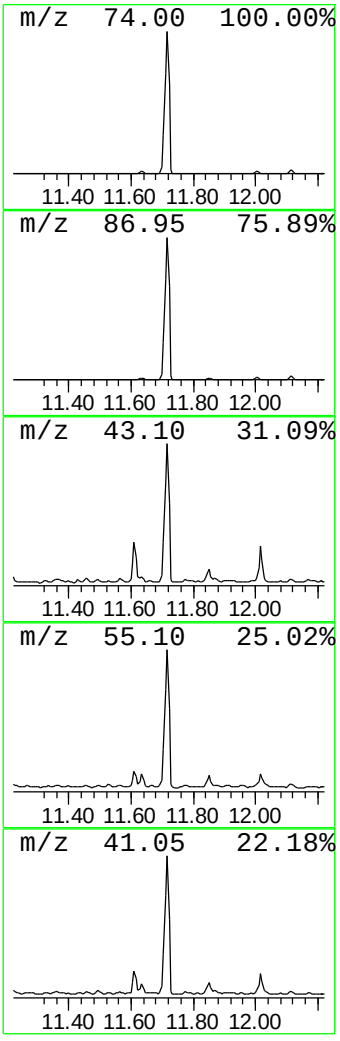
**********

Peak Number 8 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.72 | 93.80 ng | 5782840 | 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 | 95 |
| 3 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 90 |
| 4 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 87 |
| 5 | Decanoic acid, methyl ester | 186 | C11H22O2 | 000110-42-9 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

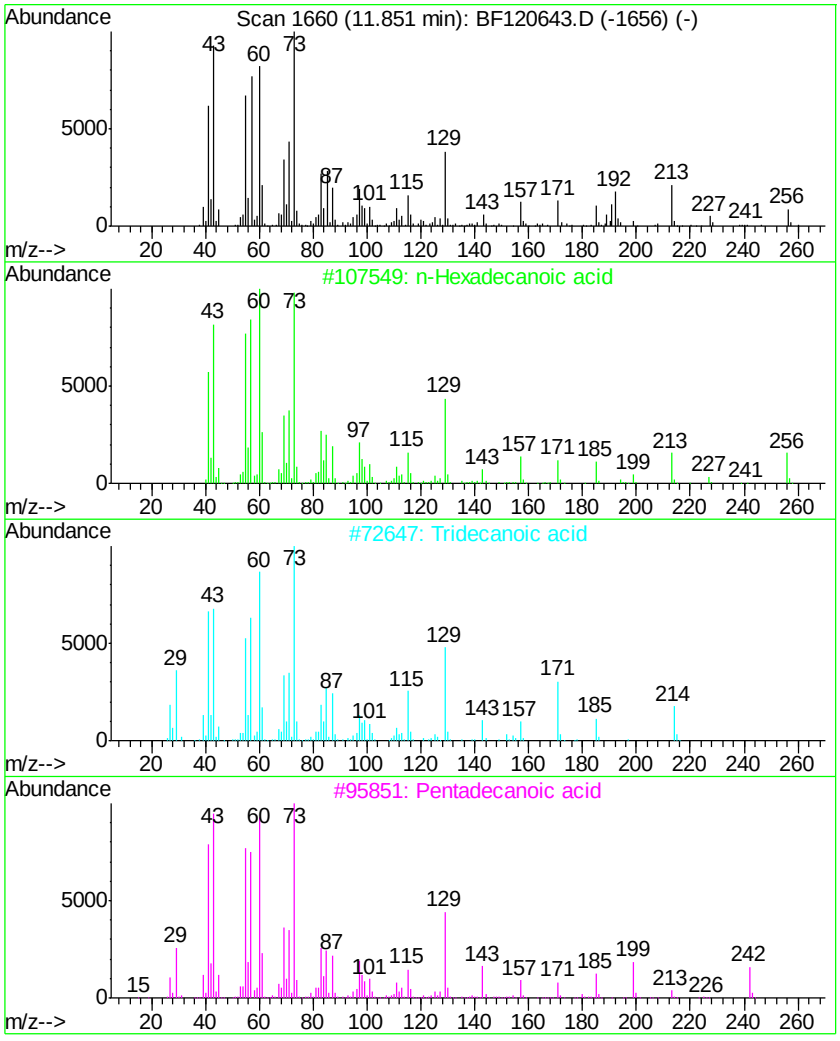
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

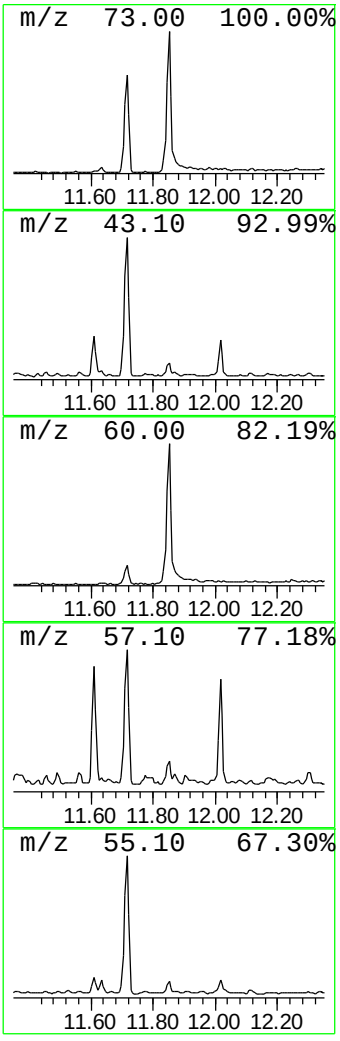
**********

Peak Number 9 n-Hexadecanoic acid Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 7.90 ng | 486975 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 94 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 91 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 76 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

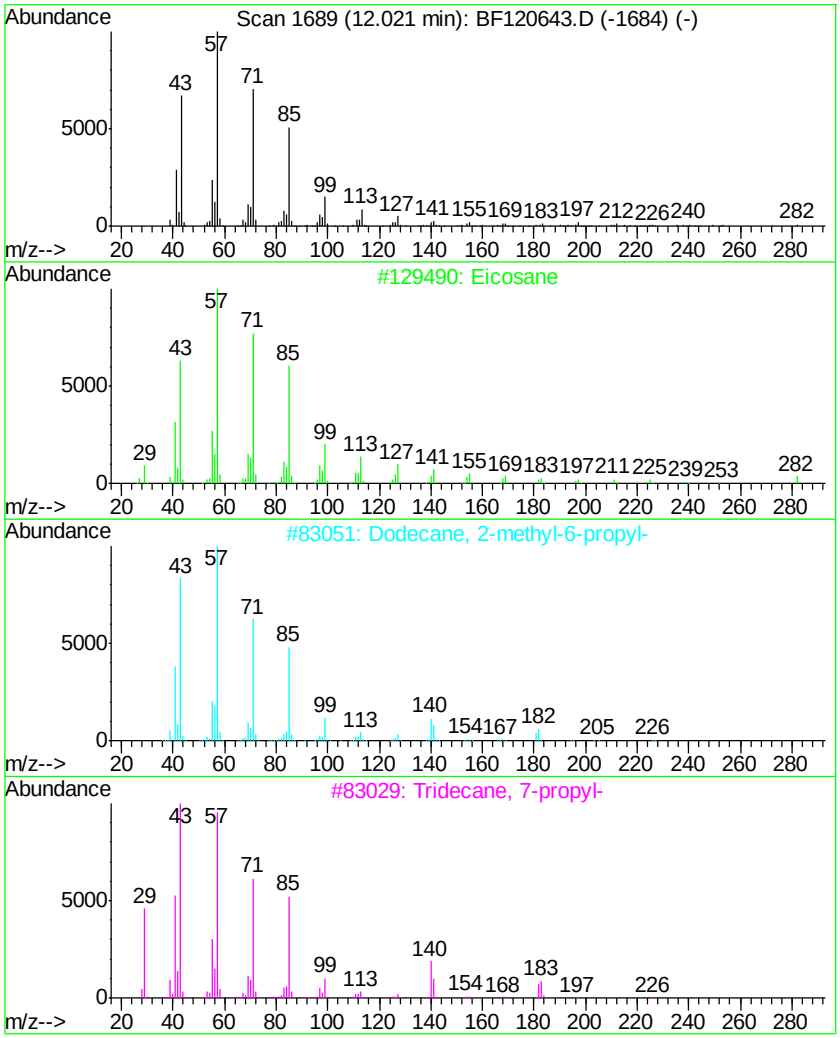
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

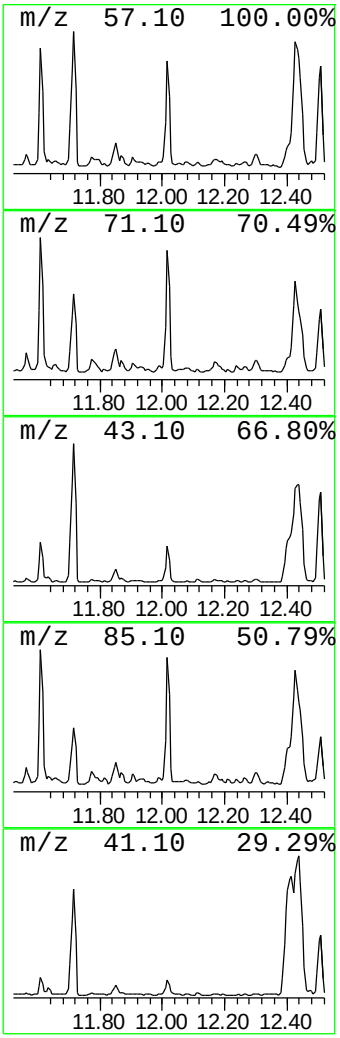
**********

Peak Number 10 Eicosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.02 | 14.00 ng | 862822 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 97 |
| 2 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 94 |
| 3 | Tridecane, 7-propyl- | 226 | C16H34 | 055045-09-5 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

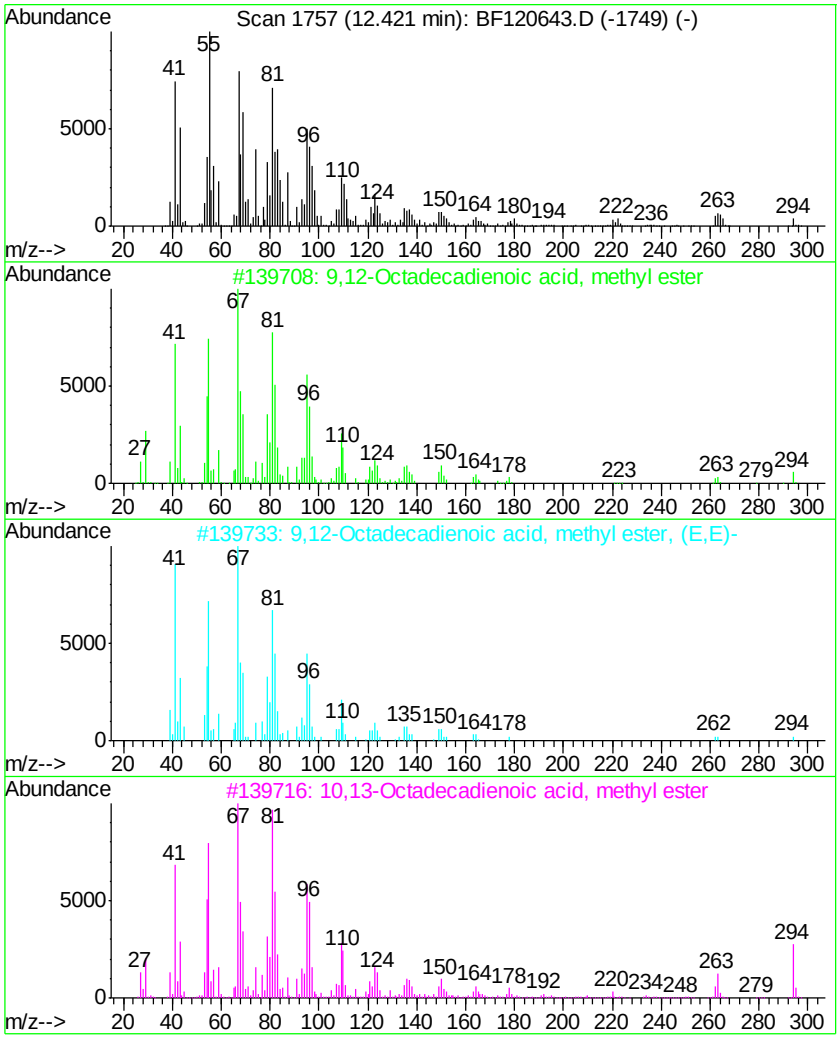
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

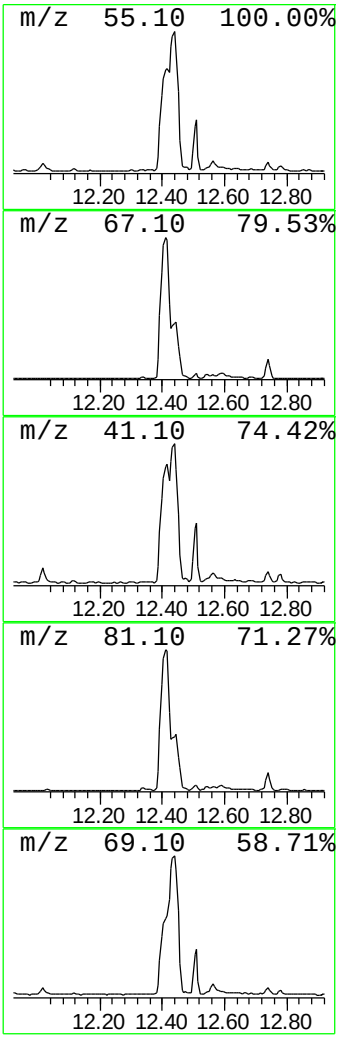
**********

Peak Number 11 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 204.19 ng | 12588000 | 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 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 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 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

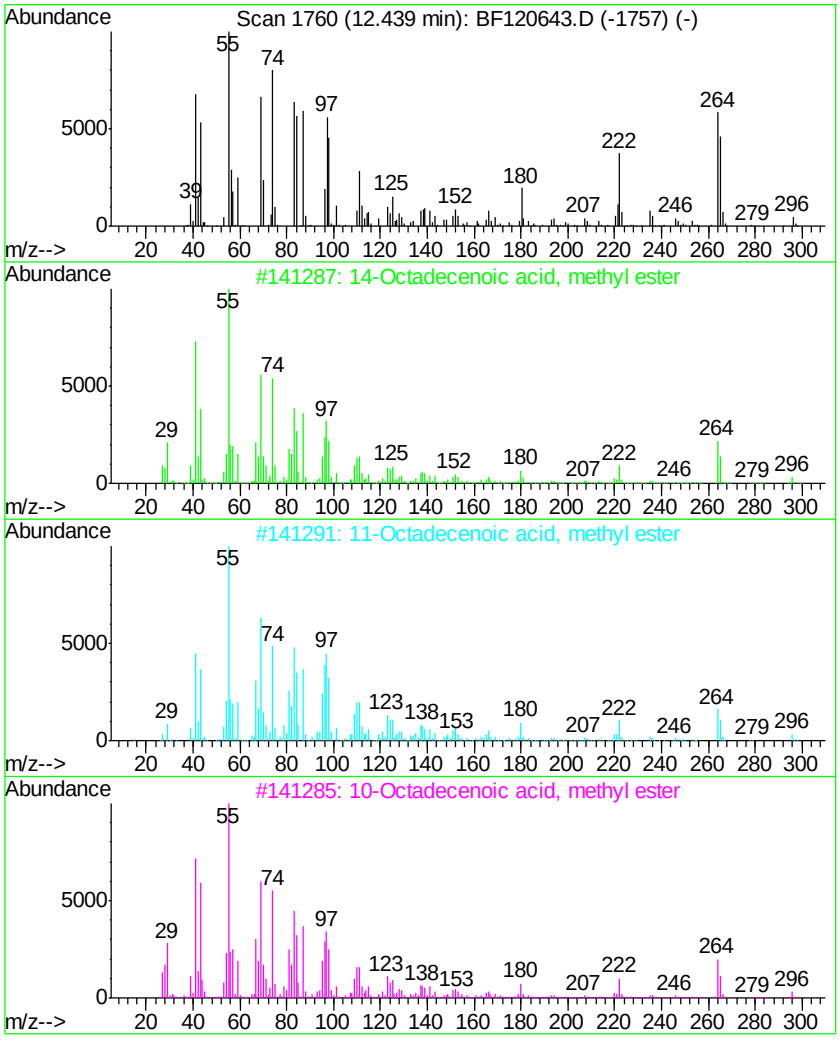
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

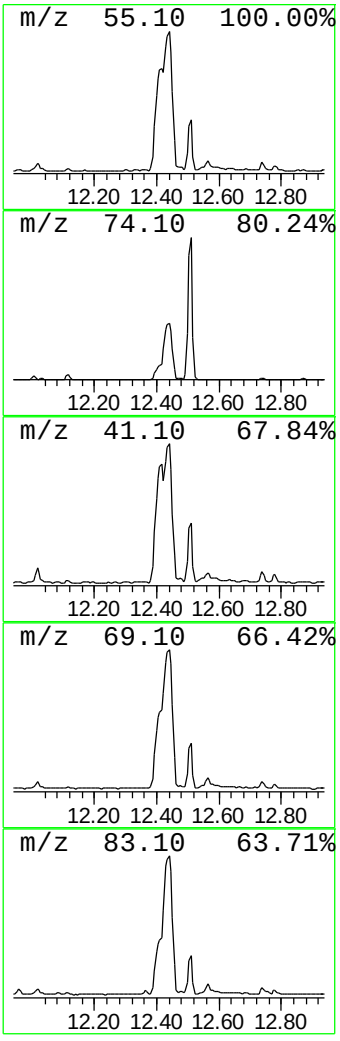
**********

Peak Number 12 14-Octadecenoic acid, methy... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.44 | 195.13 ng | 12029800 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 90 |
| 2 | 11-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052380-33-3 | 90 |
| 3 | 10-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 013481-95-3 | 89 |
| 4 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 86 |
| 5 | 3-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056599-33-8 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

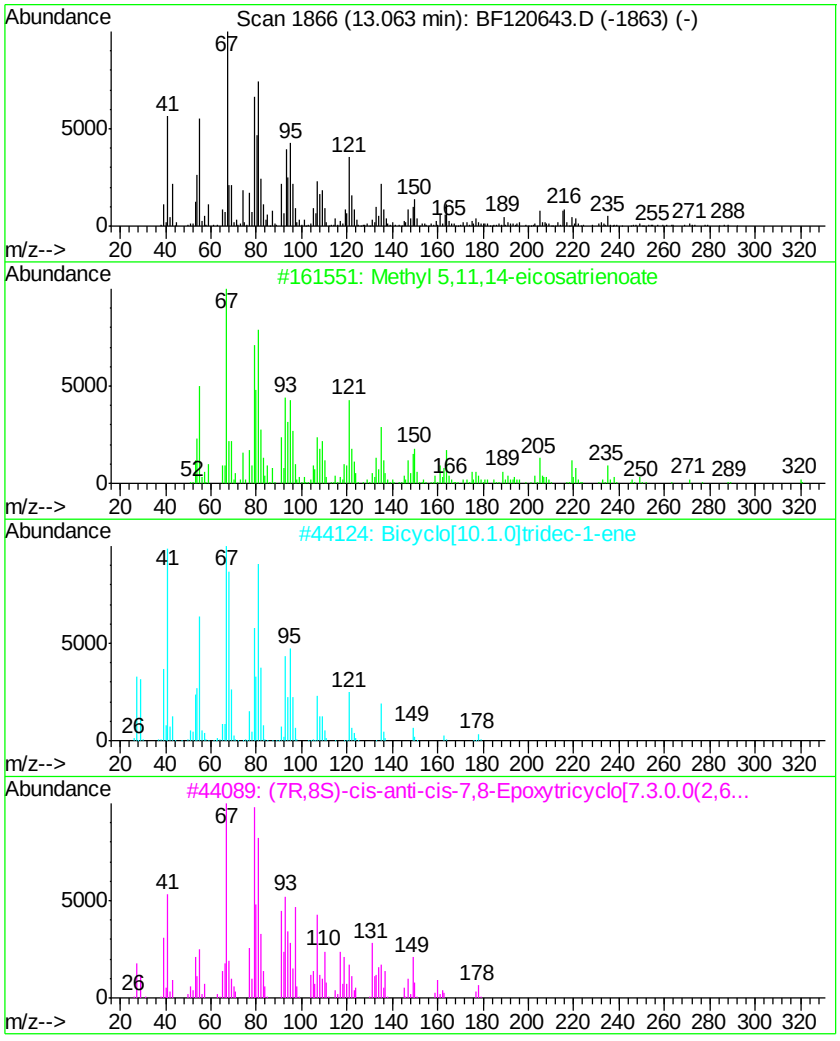
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

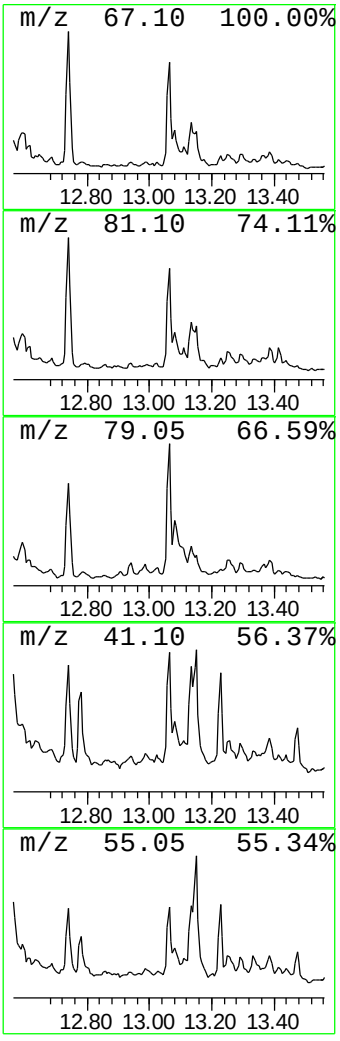
**********

Peak Number 13 Methyl 5,11,14-eicosatrienoate Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.06 | 18.75 ng | 788154 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 5,11,14-eicosatrienoate | 320 | C21H36O2 | 1000336-40-2 | 91 |
| 2 | Bicyclo[10.1.0]tridec-1-ene | 178 | C13H22 | 054766-91-5 | 74 |
| 3 | (7R,8S)-cis-anti-cis-7,8-Epoxytr... | 178 | C12H18O | 073285-35-5 | 74 |
| 4 | Bicyclo[6.1.0]non-1-ene | 122 | C9H14 | 002570-06-1 | 70 |
| 5 | 6-C14H26 | 194 | C14H26 | 003730-08-3 | 55 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

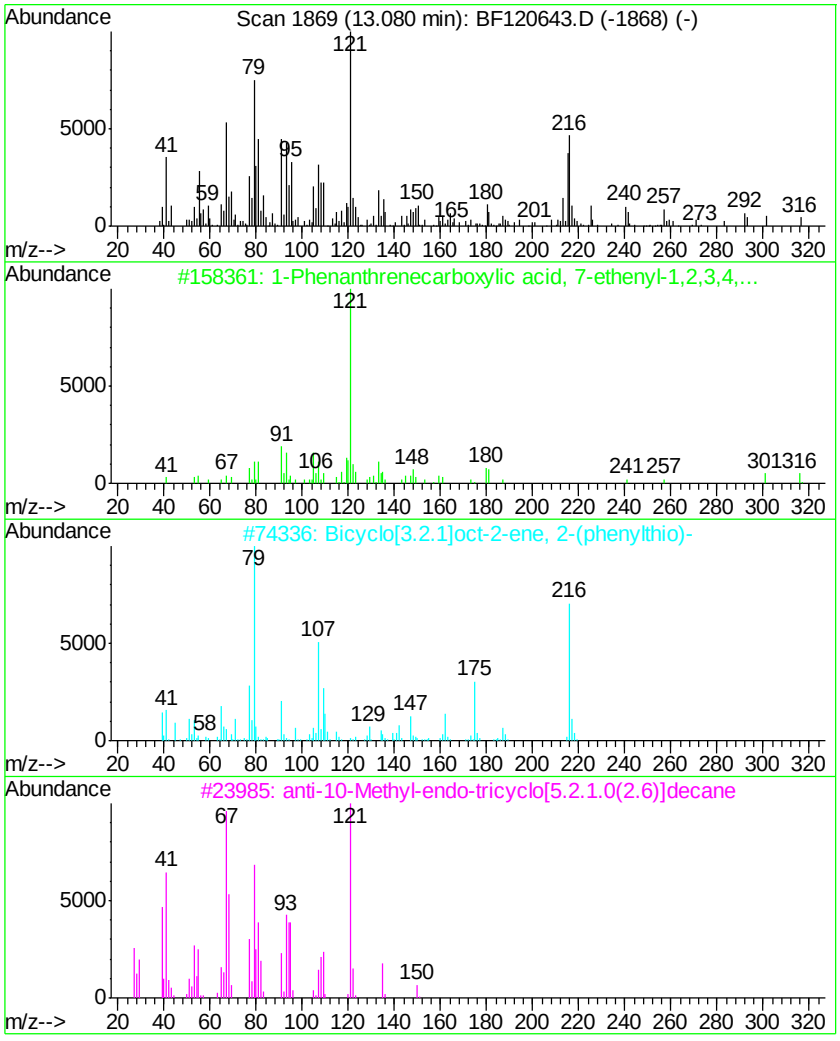
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

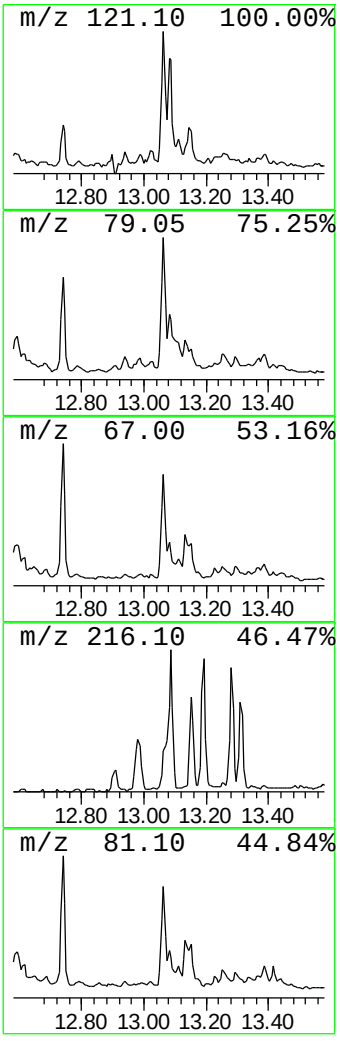
**********

Peak Number 14 1-Phenanthrenecarboxylic ac... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.08 | 8.78 ng | 369010 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenanthrenecarboxylic acid, 7... | 316 | C21H32O2 | 001686-54-0 | 90 |
| 2 | Bicyclo[3.2.1]oct-2-ene, 2-(phen... | 216 | C14H16S | 1000142-98-5 | 62 |
| 3 | anti-10-Methyl-endo-tricyclo[5.2... | 150 | C11H18 | 1000215-29-5 | 49 |
| 4 | Tricyclo[7.3.0.0(2,6)]dodecane, ... | 164 | C12H20 | 030159-17-2 | 45 |
| 5 | 1-Phenanthrenecarboxylic acid, 7... | 316 | C21H32O2 | 056051-68-4 | 40 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

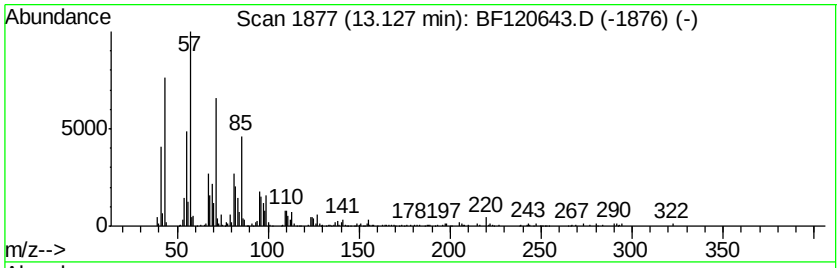
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

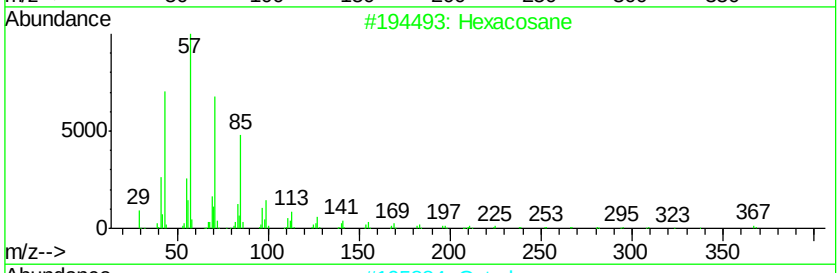
**********

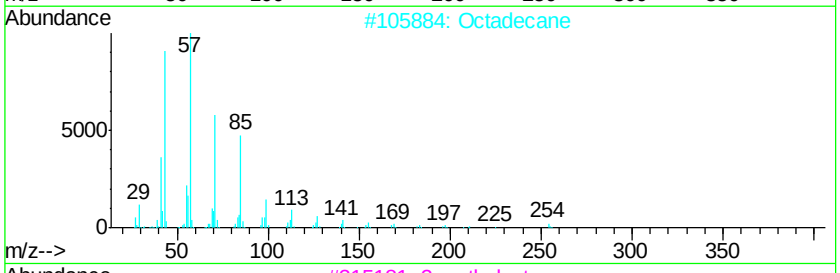
Peak Number 15 Hexacosane Concentration Rank 10

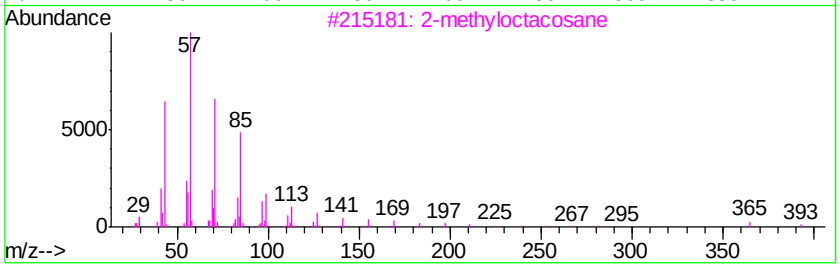
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.13 | 12.47 ng | 524198 | Chrysene-d12 | 13.95 |

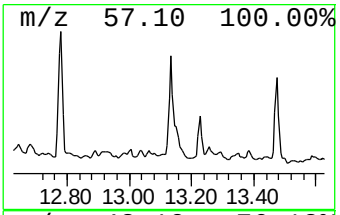
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 55 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 49 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 49 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 49 |
| 5 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 49 |

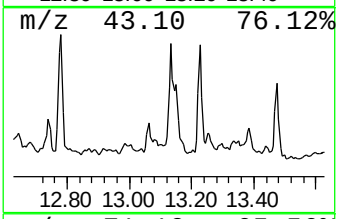


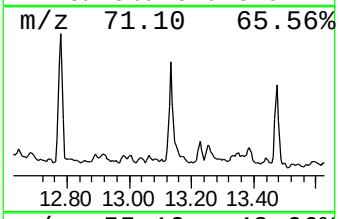



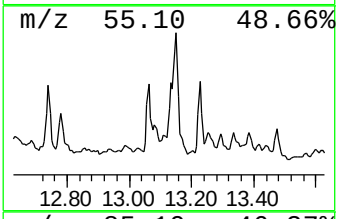



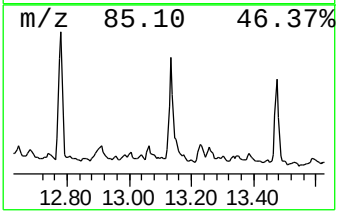



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

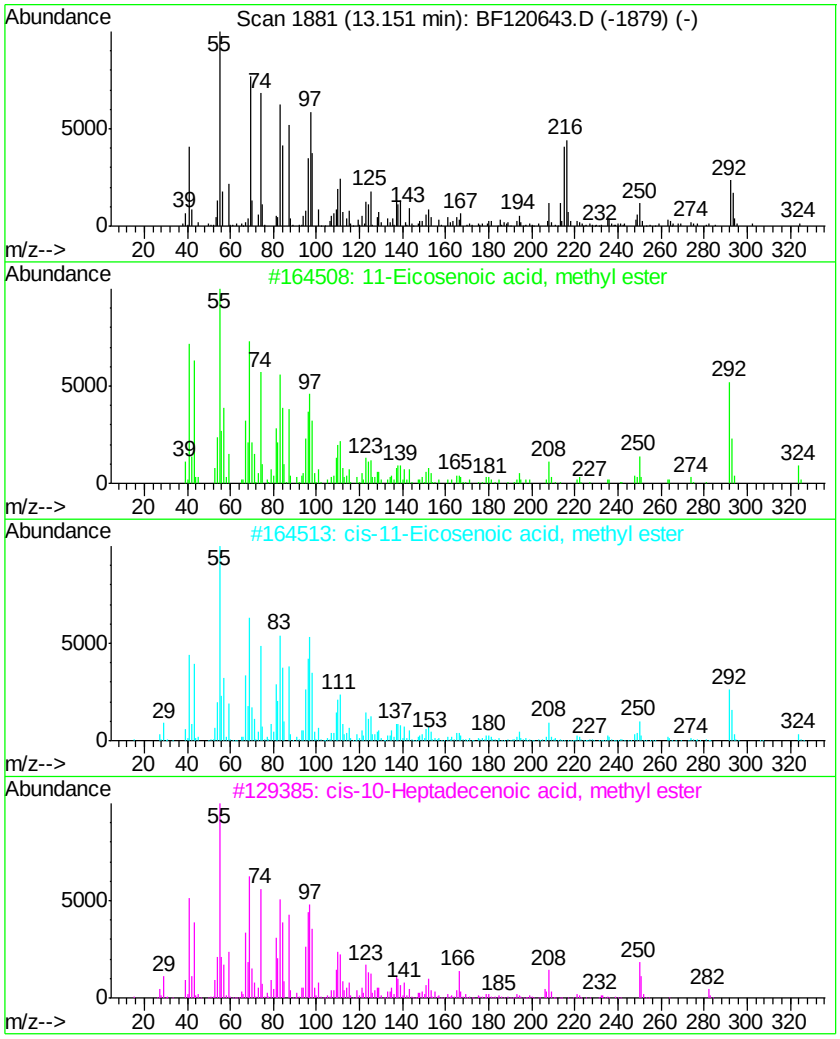
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

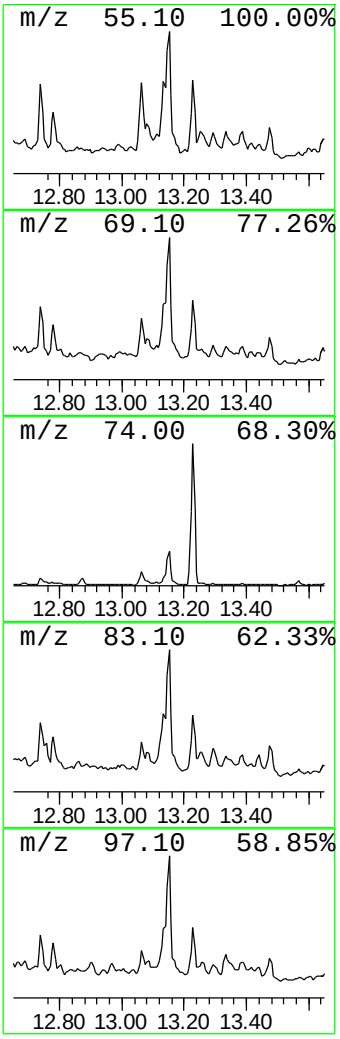
**********

Peak Number 16 11-Eicosenoic acid, methyl ... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.15 | 17.34 ng | 728807 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11-Eicosenoic acid, methyl ester | 324 | C21H40O2 | 003946-08-5 | 83 |
| 2 | cis-11-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-63-8 | 53 |
| 3 | cis-10-Heptadecenoic acid, methy... | 282 | C18H34O2 | 1000333-62-1 | 50 |
| 4 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 49 |
| 5 | Methyl 9-eicosenoate | 324 | C21H40O2 | 1000336-50-5 | 47 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

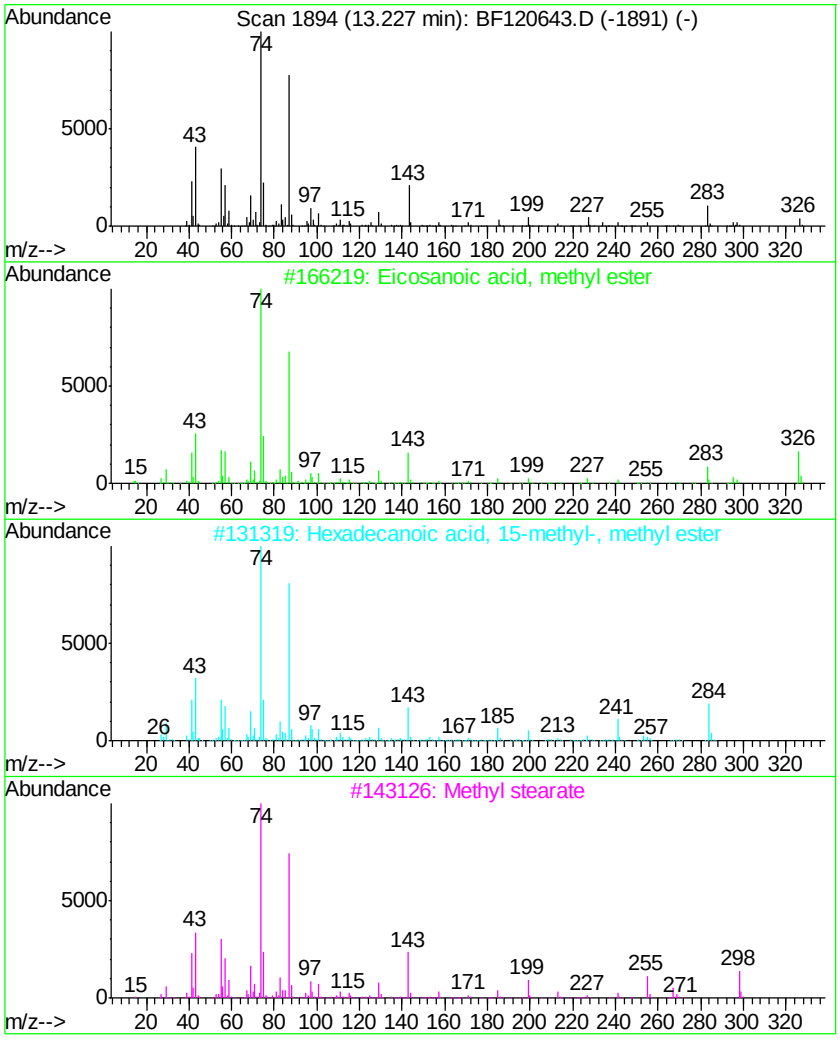
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

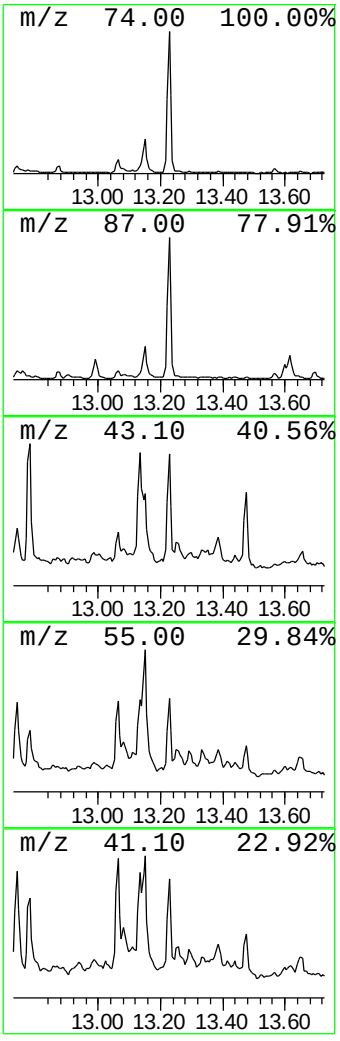
**********

Peak Number 17 Eicosanoic acid, methyl ester Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.23 | 13.34 ng | 560570 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosanoic acid, methyl ester | 326 | C21H42O2 | 001120-28-1 | 98 |
| 2 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 91 |
| 3 | Methyl stearate | 298 | C19H38O2 | 000112-61-8 | 90 |
| 4 | Nonadecanoic acid, methyl ester | 312 | C20H40O2 | 001731-94-8 | 90 |
| 5 | Methyl 18-methylnonadecanoate | 326 | C21H42O2 | 1000352-20-6 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

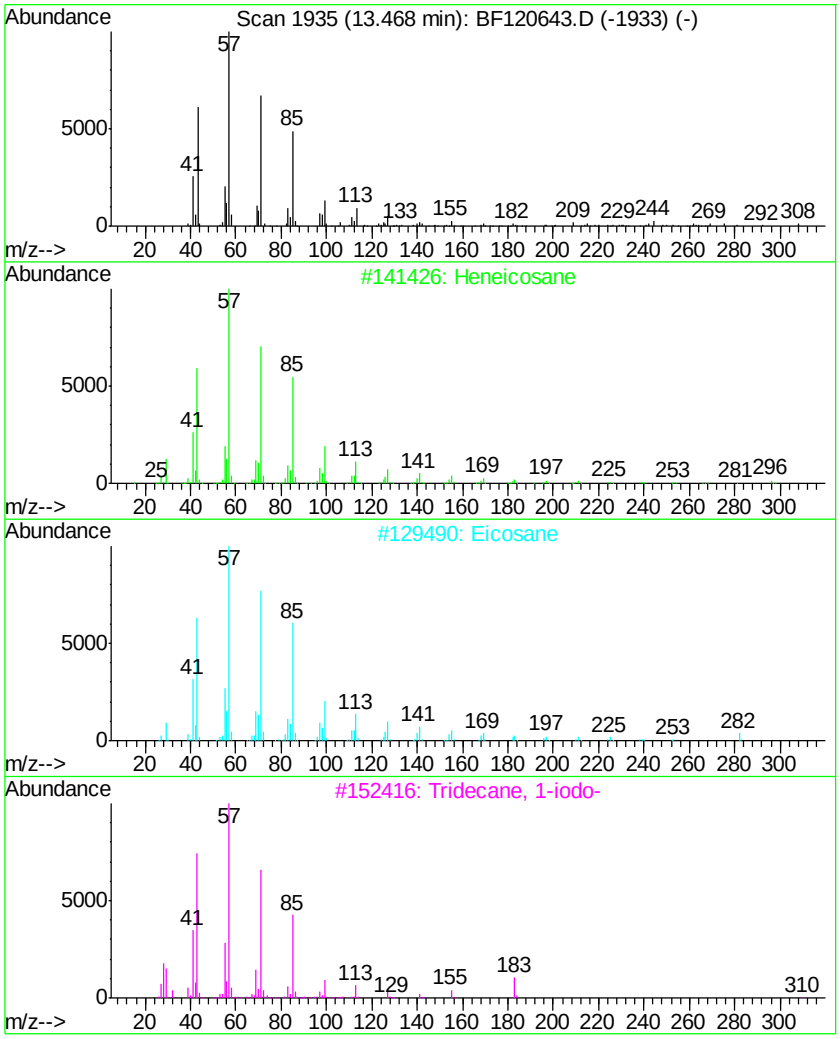
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

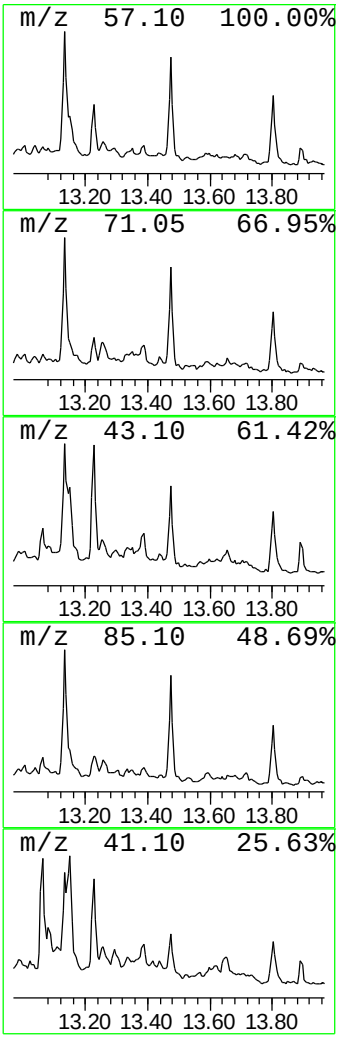
**********

Peak Number 18 Heneicosane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.47 | 9.46 ng | 397816 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 86 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 5 | Hexatriacontane | 507 | C36H74 | 000630-06-8 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

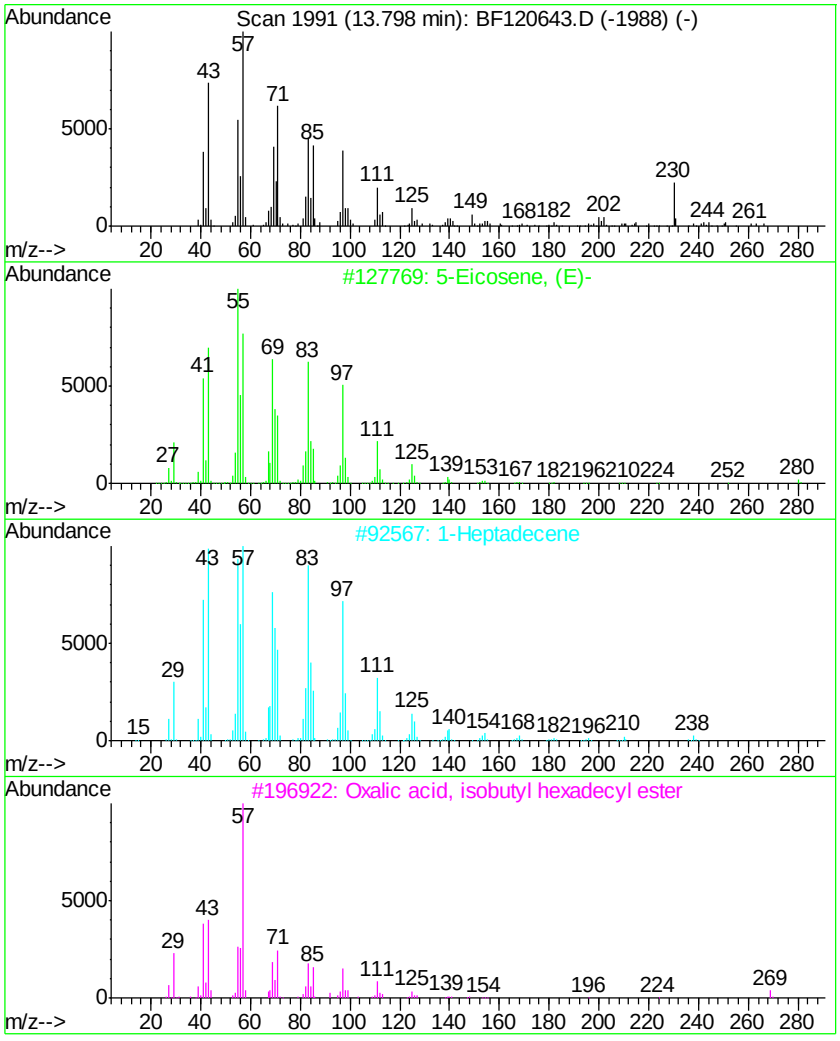
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

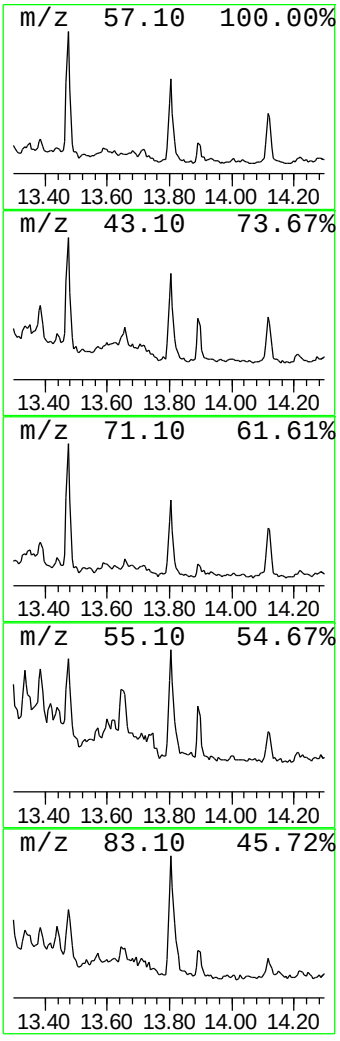
**********

Peak Number 19 5-Eicosene, (E)- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.80 | 8.46 ng | 355493 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 90 |
| 2 | 1-Heptadecene | 238 | C17H34 | 006765-39-5 | 89 |
| 3 | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4 | 1000309-38-1 | 87 |
| 4 | Oxalic acid, isobutyl pentadecyl... | 356 | C21H40O4 | 1000309-38-0 | 87 |
| 5 | Sulfurous acid, octadecyl 2-prop... | 376 | C21H44O3S | 1000309-12-7 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

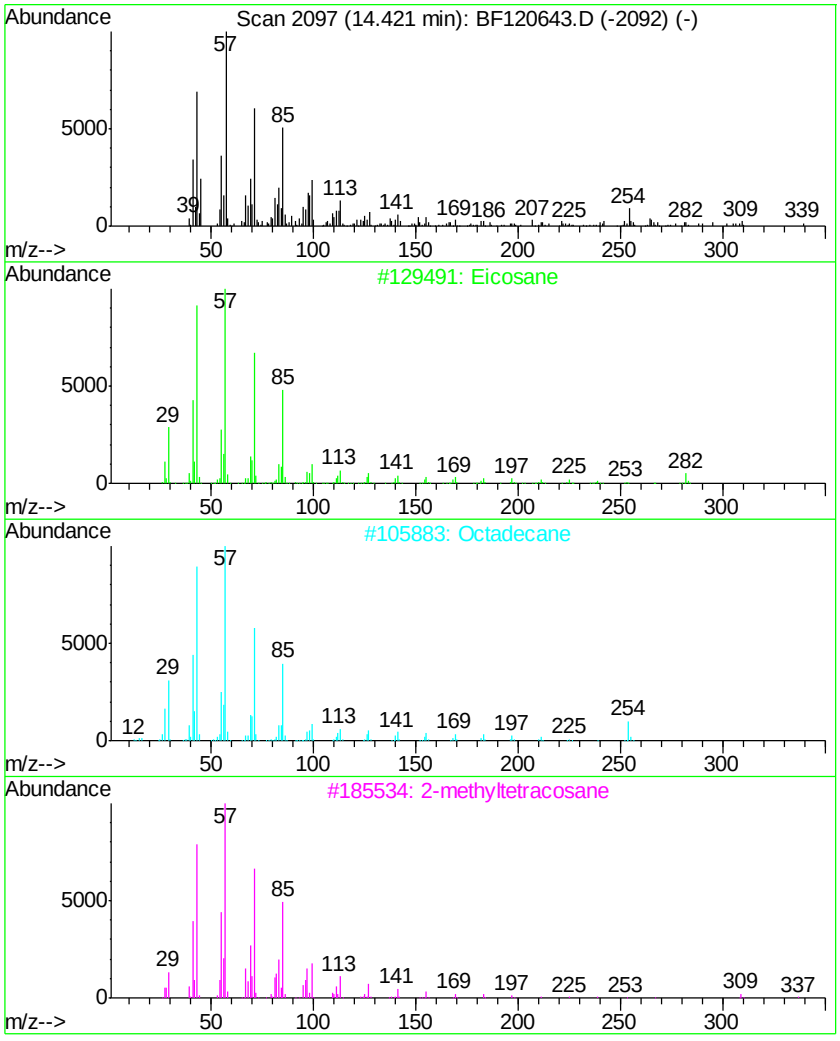
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

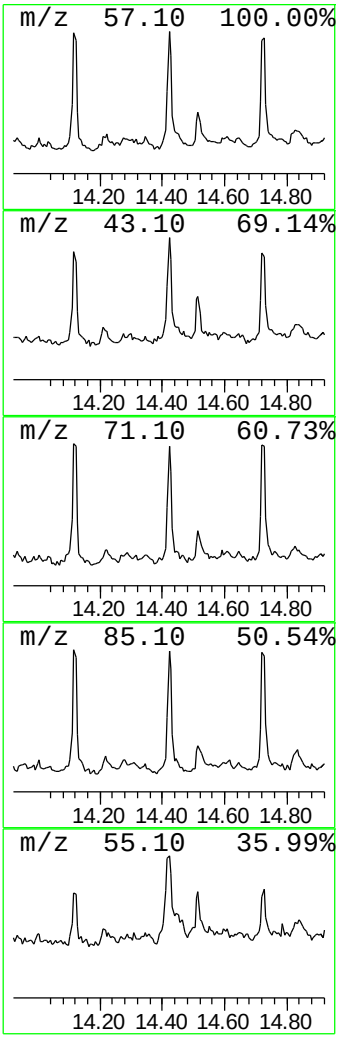
**********

Peak Number 20 2-methyltetracosane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.42 | 7.29 ng | 306521 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 89 |
| 3 | 2-methyltetracosane | 352 | C25H52 | 1000376-72-6 | 76 |
| 4 | 2-methylhexacosane | 380 | C27H56 | 1000376-72-7 | 70 |
| 5 | Docosane | 310 | C22H46 | 000629-97-0 | 64 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF061820\
Data File : BF120643.D
Acq On : 18 Jun 2020 15:46
Operator : JU/CG
Sample : L2817-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SU-04-061720

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061020.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 |
| Pentadecane | 9.76 | 7.1 | ng | 427984 | 3 | 9.83 | 1198990 | 20.0 |
| Bacchotricuneatin c | 10.26 | 10.1 | ng | 604068 | 3 | 9.83 | 1198990 | 20.0 |
| Heptacosane | 10.49 | 8.1 | ng | 483496 | 3 | 9.83 | 1198990 | 20.0 |
| Hexadecane | 10.74 | 18.0 | ng | 1109200 | 4 | 11.32 | 1233010 | 20.0 |
| Octadecane | 11.19 | 11.8 | ng | 727410 | 4 | 11.32 | 1233010 | 20.0 |
| Nonadecane | 11.61 | 10.8 | ng | 668573 | 4 | 11.32 | 1233010 | 20.0 |
| Hexadecanoic acid... | 11.72 | 93.8 | ng | 5782840 | 4 | 11.32 | 1233010 | 20.0 |
| n-Hexadecanoic acid | 11.85 | 7.9 | ng | 486975 | 4 | 11.32 | 1233010 | 20.0 |
| Eicosane | 12.02 | 14.0 | ng | 862822 | 4 | 11.32 | 1233010 | 20.0 |
| 9,12-Octadecadien... | 12.42 | 204.2 | ng | 12588000 | 4 | 11.32 | 1233010 | 20.0 |
| 14-Octadecenoic a... | 12.44 | 195.1 | ng | 12029800 | 4 | 11.32 | 1233010 | 20.0 |
| Methyl 5,11,14-ei... | 13.06 | 18.8 | ng | 788154 | 5 | 13.95 | 840722 | 20.0 |
| 1-Phenanthrenecar... | 13.08 | 8.8 | ng | 369010 | 5 | 13.95 | 840722 | 20.0 |
| Hexacosane | 13.13 | 12.5 | ng | 524198 | 5 | 13.95 | 840722 | 20.0 |
| 11-Eicosenoic aci... | 13.15 | 17.3 | ng | 728807 | 5 | 13.95 | 840722 | 20.0 |
| Eicosanoic acid, ... | 13.23 | 13.3 | ng | 560570 | 5 | 13.95 | 840722 | 20.0 |
| Heneicosane | 13.47 | 9.5 | ng | 397816 | 5 | 13.95 | 840722 | 20.0 |
| 5-Eicosene, (E)- | 13.80 | 8.5 | ng | 355493 | 5 | 13.95 | 840722 | 20.0 |
| 2-methyltetracosane | 14.42 | 7.3 | ng | 306521 | 5 | 13.95 | 840722 | 20.0 |