LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

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-BF020320.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 | 5.434 | 564 | 569 | 584 | rBV | 4473061 | 4719844 | 19.04% | 3.928% |
| 2 | 6.445 | 736 | 741 | 750 | rBV | 4952437 | 5074920 | 20.47% | 4.223% |
| 3 | 6.804 | 798 | 802 | 806 | rBV | 1854121 | 1491399 | 6.02% | 1.241% |
| 4 | 6.963 | 825 | 829 | 832 | rBV | 5085056 | 4410271 | 17.79% | 3.670% |
| 5 | 7.363 | 892 | 897 | 901 | rBV | 2459187 | 2509189 | 10.12% | 2.088% |
| 6 | 8.087 | 1016 | 1020 | 1030 | rBV | 1697070 | 1516160 | 6.12% | 1.262% |
| 7 | 9.163 | 1198 | 1203 | 1206 | rBV | 5662531 | 5141058 | 20.74% | 4.278% |
| 8 | 9.551 | 1267 | 1269 | 1277 | rVB | 307001 | 301425 | 1.22% | 0.251% |
| 9 | 9.839 | 1312 | 1318 | 1322 | rBV | 2076613 | 1882460 | 7.59% | 1.567% |
| 10 | 10.633 | 1448 | 1453 | 1456 | rBV | 3678580 | 3445253 | 13.90% | 2.867% |
| 11 | 10.851 | 1487 | 1490 | 1494 | rVB | 418103 | 317489 | 1.28% | 0.264% |
| 12 | 11.328 | 1567 | 1571 | 1573 | rBV | 2108556 | 1868122 | 7.54% | 1.555% |
| 13 | 11.351 | 1573 | 1575 | 1578 | rVV | 1752142 | 1285810 | 5.19% | 1.070% |
| 14 | 11.645 | 1623 | 1625 | 1630 | rVB2 | 706541 | 603124 | 2.43% | 0.502% |
| 15 | 11.727 | 1634 | 1639 | 1642 | rBV | 8043376 | 7942489 | 32.04% | 6.609% |
| 16 | 11.827 | 1652 | 1656 | 1658 | rBV | 411380 | 346732 | 1.40% | 0.289% |
| 17 | 11.863 | 1658 | 1662 | 1667 | rVV2 | 925581 | 1166924 | 4.71% | 0.971% |
| 18 | 11.939 | 1671 | 1675 | 1677 | rVV | 475696 | 509266 | 2.05% | 0.424% |
| 19 | 12.127 | 1703 | 1707 | 1709 | rVV2 | 325906 | 354656 | 1.43% | 0.295% |
| 20 | 12.380 | 1747 | 1750 | 1751 | rBV | 294925 | 268349 | 1.08% | 0.223% |
| 21 | 12.422 | 1751 | 1757 | 1759 | rVV2 | 10304632 | 18184347 | 73.35% | 15.132% |
| 22 | 12.457 | 1759 | 1763 | 1767 | rVV | 13746484 | 24792146 | 100.00% | 20.631% |
| 23 | 12.486 | 1767 | 1768 | 1770 | rVV | 430273 | 318298 | 1.28% | 0.265% |
| 24 | 12.522 | 1770 | 1774 | 1776 | rVV | 4678036 | 4176154 | 16.84% | 3.475% |
| 25 | 12.545 | 1776 | 1778 | 1780 | rVV | 1801639 | 1599860 | 6.45% | 1.331% |
| 26 | 12.569 | 1780 | 1782 | 1792 | rVV3 | 775736 | 1051784 | 4.24% | 0.875% |
| 27 | 12.645 | 1792 | 1795 | 1799 | rVV2 | 262760 | 251283 | 1.01% | 0.209% |
| 28 | 12.774 | 1808 | 1817 | 1819 | rBV | 1899241 | 2430032 | 9.80% | 2.022% |
| 29 | 12.916 | 1831 | 1841 | 1845 | rBV | 6277827 | 6411589 | 25.86% | 5.336% |
| 30 | 12.998 | 1850 | 1855 | 1858 | rBV3 | 269382 | 478792 | 1.93% | 0.398% |
| 31 | 13.098 | 1866 | 1872 | 1876 | rBV | 478309 | 783534 | 3.16% | 0.652% |
| 32 | 13.163 | 1878 | 1883 | 1887 | rVB2 | 1434263 | 1522305 | 6.14% | 1.267% |
| 33 | 13.204 | 1887 | 1890 | 1893 | rVB2 | 328522 | 284412 | 1.15% | 0.237% |
| 34 | 13.239 | 1893 | 1896 | 1898 | rBV | 789631 | 648251 | 2.61% | 0.539% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.298 | 1903 | 1906 | 1909 | rBV2 | 293392 | 292228 | 1.18% | 0.243% |
| 36 | 13.604 | 1956 | 1958 | 1963 | rVB | 258098 | 257420 | 1.04% | 0.214% |
| 37 | 13.716 | 1973 | 1977 | 1980 | rBV2 | 190675 | 299208 | 1.21% | 0.249% |
| 38 | 13.810 | 1990 | 1993 | 2003 | rVB3 | 681998 | 938397 | 3.79% | 0.781% |
| 39 | 13.904 | 2006 | 2009 | 2012 | rVB | 381887 | 329471 | 1.33% | 0.274% |
| 40 | 13.969 | 2014 | 2020 | 2022 | rBV2 | 2192529 | 2846936 | 11.48% | 2.369% |
| 41 | 13.992 | 2022 | 2024 | 2027 | rVB | 1070161 | 805545 | 3.25% | 0.670% |
| 42 | 14.351 | 2083 | 2085 | 2088 | rVB | 277271 | 255920 | 1.03% | 0.213% |
| 43 | 14.439 | 2097 | 2100 | 2103 | rBV2 | 236975 | 352148 | 1.42% | 0.293% |
| 44 | 14.739 | 2148 | 2151 | 2153 | rBV | 271450 | 266002 | 1.07% | 0.221% |
| 45 | 14.998 | 2191 | 2195 | 2198 | rBV | 942852 | 1402858 | 5.66% | 1.167% |
| 46 | 15.068 | 2204 | 2207 | 2210 | rBV | 303467 | 311372 | 1.26% | 0.259% |
| 47 | 15.292 | 2242 | 2245 | 2251 | rVB | 559026 | 727769 | 2.94% | 0.606% |
| 48 | 15.351 | 2251 | 2255 | 2260 | rBV | 719167 | 954343 | 3.85% | 0.794% |
| 49 | 15.415 | 2262 | 2266 | 2269 | rBV | 1357320 | 1572198 | 6.34% | 1.308% |
| 50 | 16.851 | 2506 | 2510 | 2518 | rVB2 | 250264 | 468487 | 1.89% | 0.390% |

Sum of corrected areas: 120168029

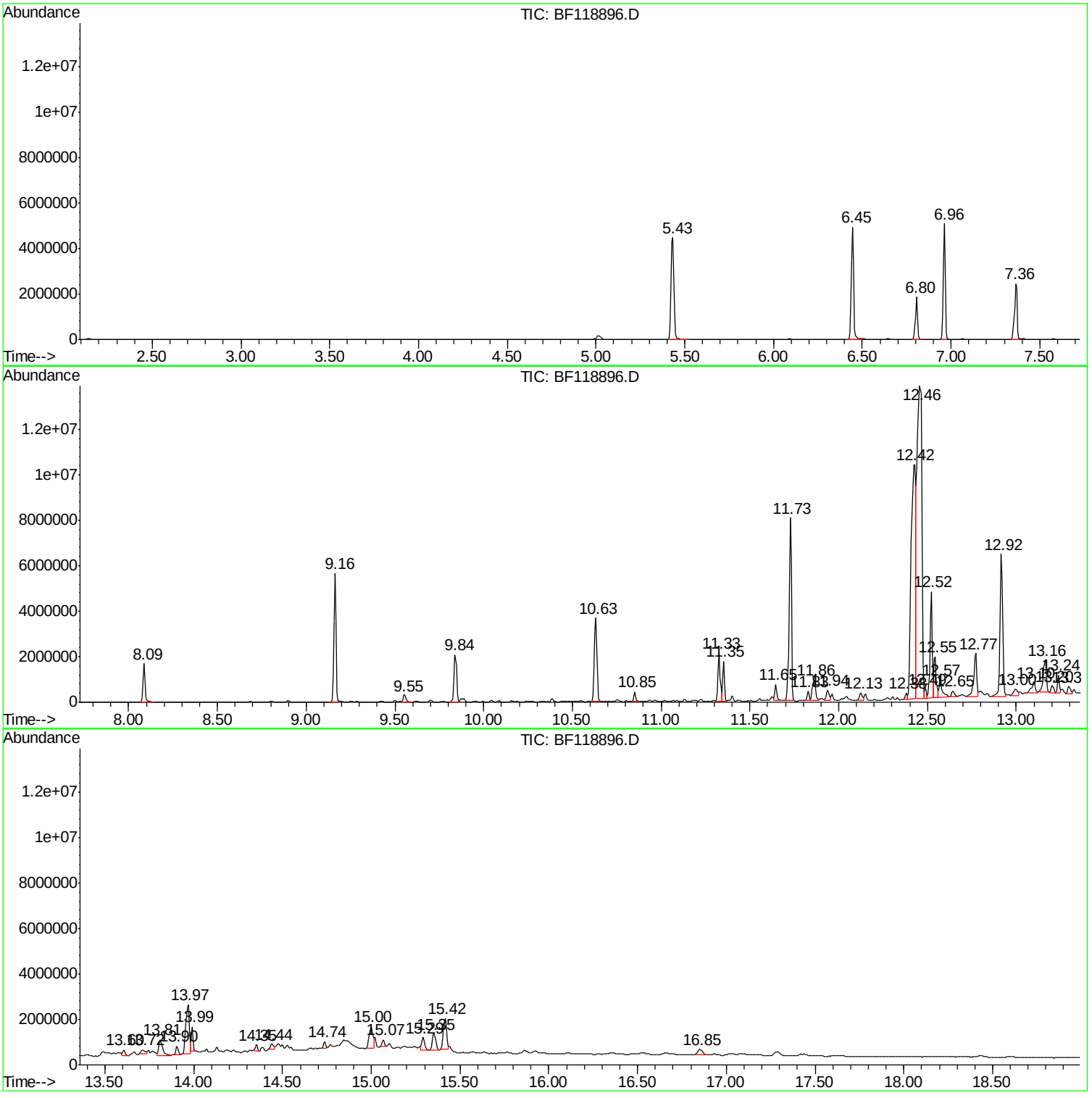
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

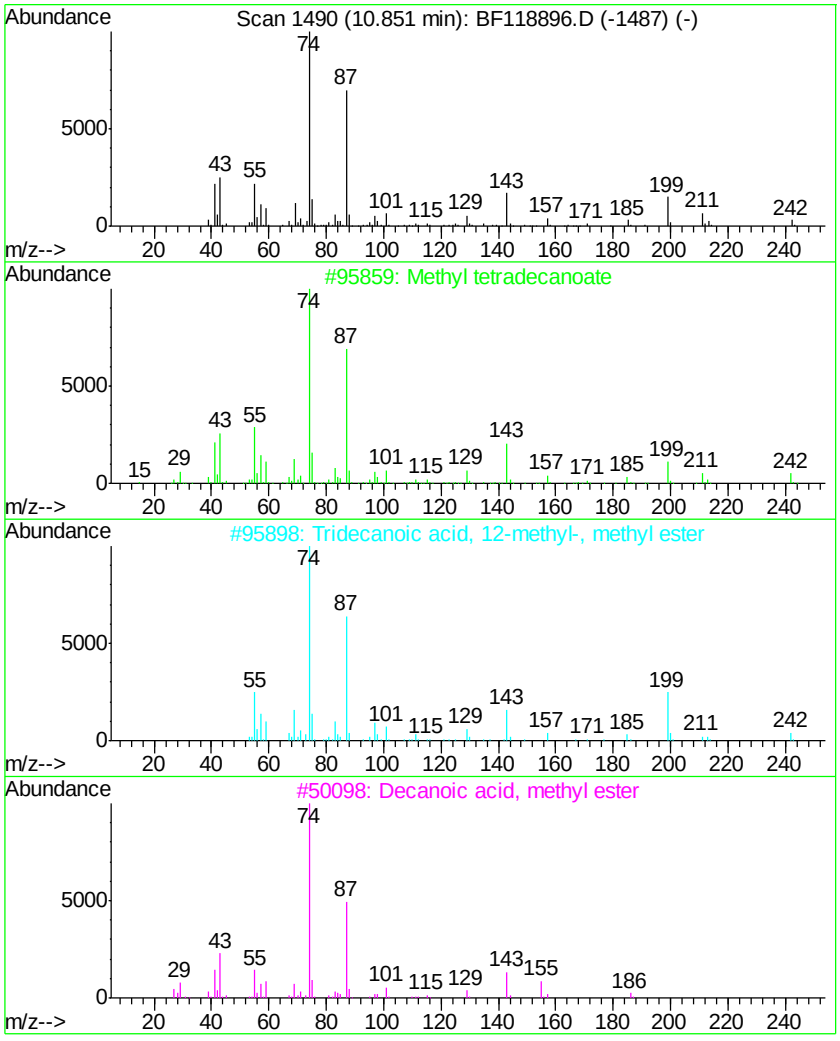
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

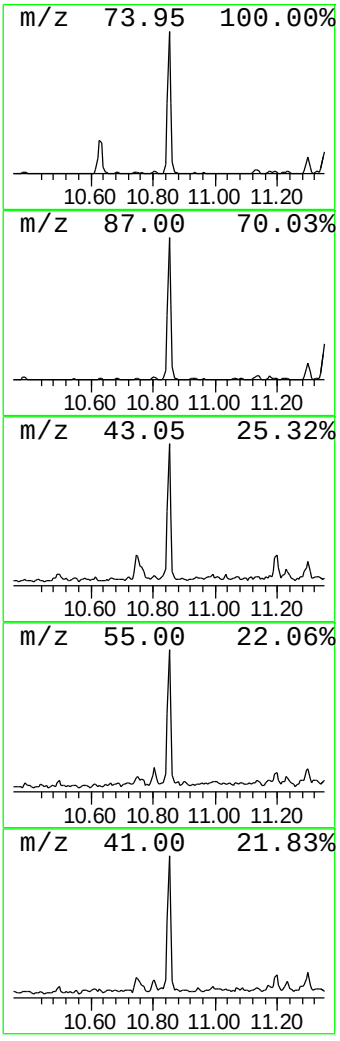
**********

Peak Number 2 Methyl tetradecanoate Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.85 | 3.40 ng | 317489 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 96 |
| 2 | Tridecanoic acid, 12-methyl-, me... | 242 | C15H30O2 | 005129-58-8 | 93 |
| 3 | Decanoic acid, methyl ester | 186 | C11H22O2 | 000110-42-9 | 86 |
| 4 | Dodecanoic acid, methyl ester | 214 | C13H26O2 | 000111-82-0 | 80 |
| 5 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

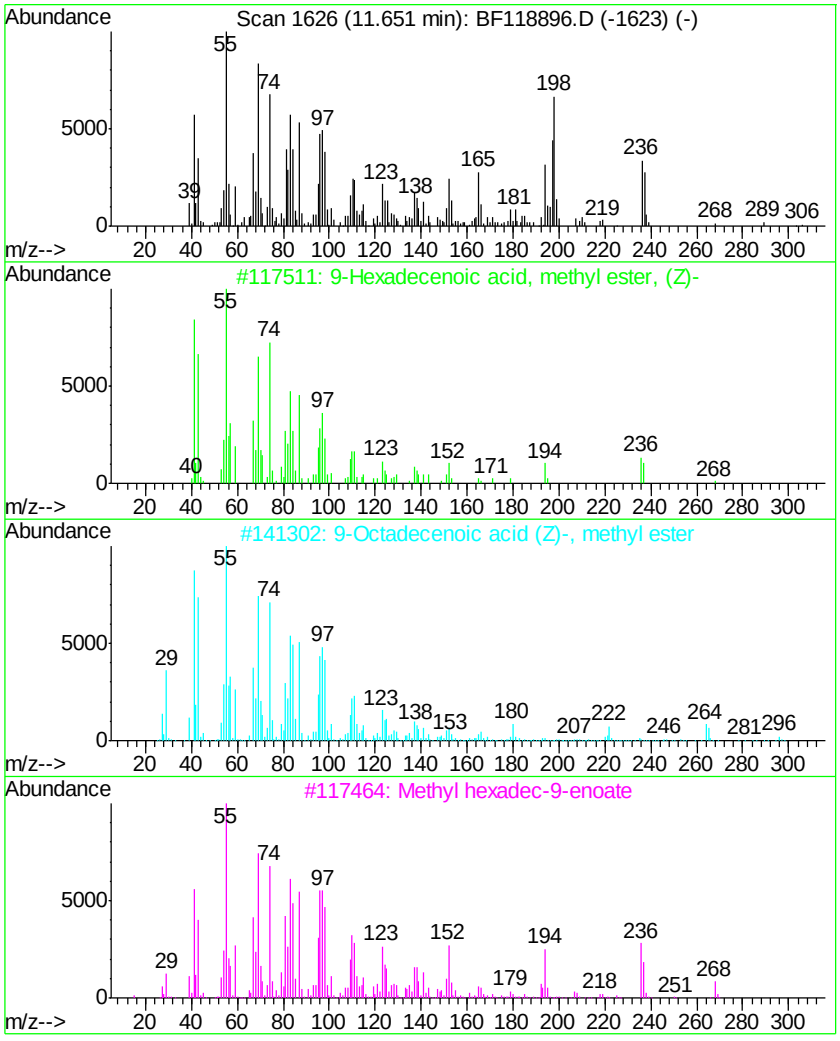
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

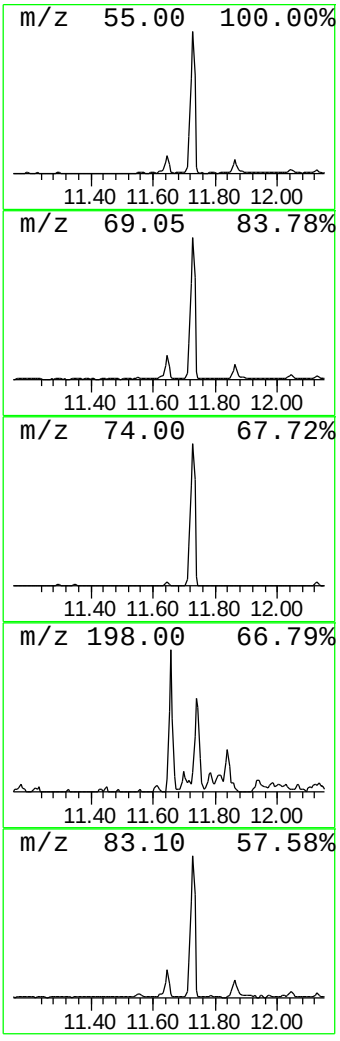
**********

Peak Number 3 9-Hexadecenoic acid, methyl... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.65 | 6.46 ng | 603124 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 001120-25-8 | 98 |
| 2 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 93 |
| 3 | Methyl hexadec-9-enoate | 268 | C17H32O2 | 010030-74-7 | 91 |
| 4 | Cyclopentadecanone, 2-hydroxy- | 240 | C15H28O2 | 004727-18-8 | 70 |
| 5 | Cyclopropaneoctanoic acid, 2-hex... | 282 | C18H34O2 | 010152-61-1 | 60 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

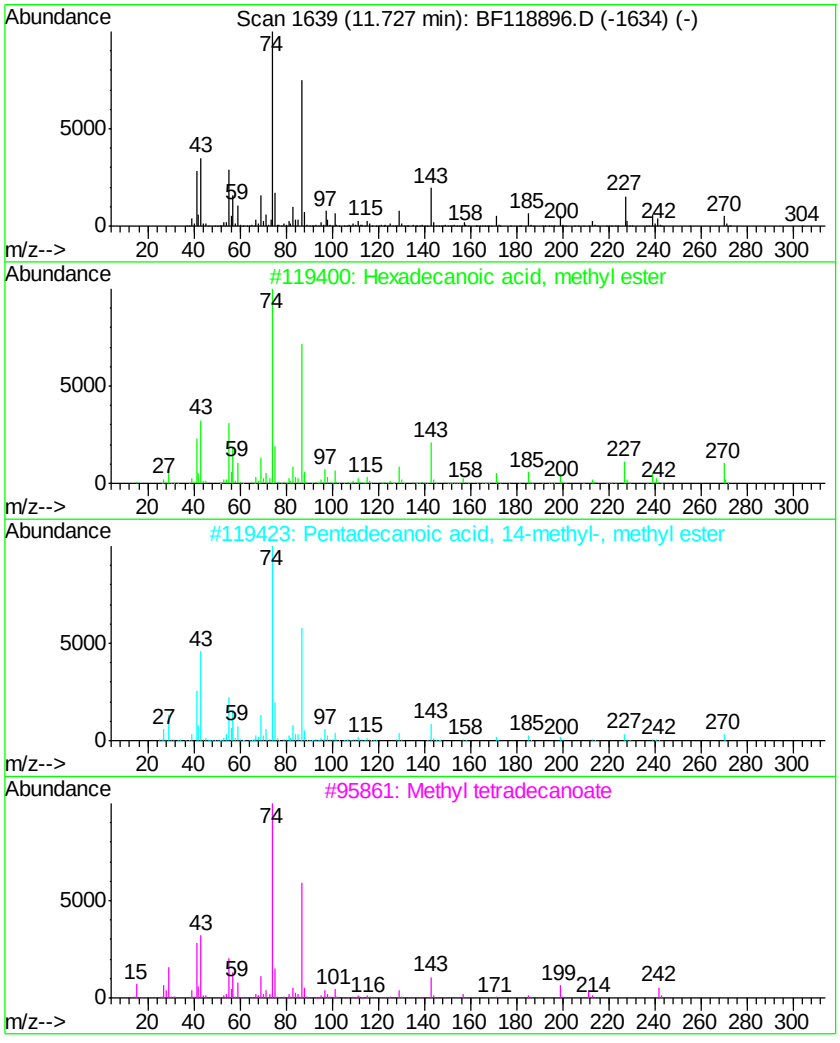
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

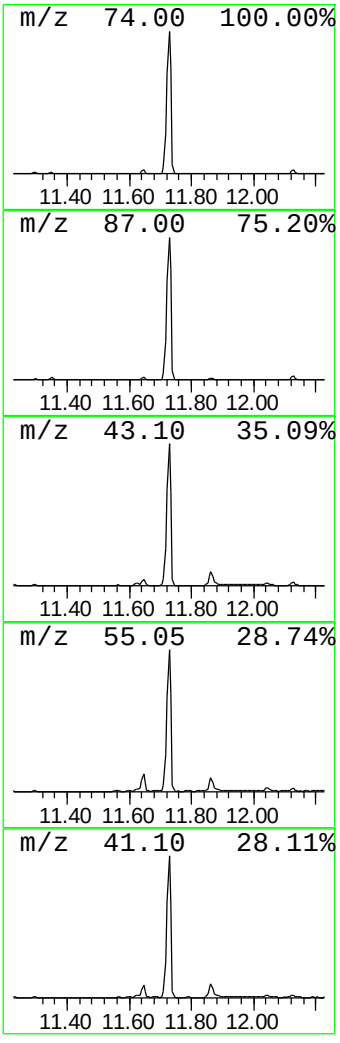
**********

Peak Number 4 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.73 | 85.03 ng | 7942490 | Phenanthrene-d10 | 11.33 |

| 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 | 94 |
| 3 | Methyl tetradecanoate | 242 | C15H30O2 | 000124-10-7 | 93 |
| 4 | Tridecanoic acid, methyl ester | 228 | C14H28O2 | 001731-88-0 | 90 |
| 5 | Tridecanoic acid, 12-methyl-, me... | 242 | C15H30O2 | 005129-58-8 | 80 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

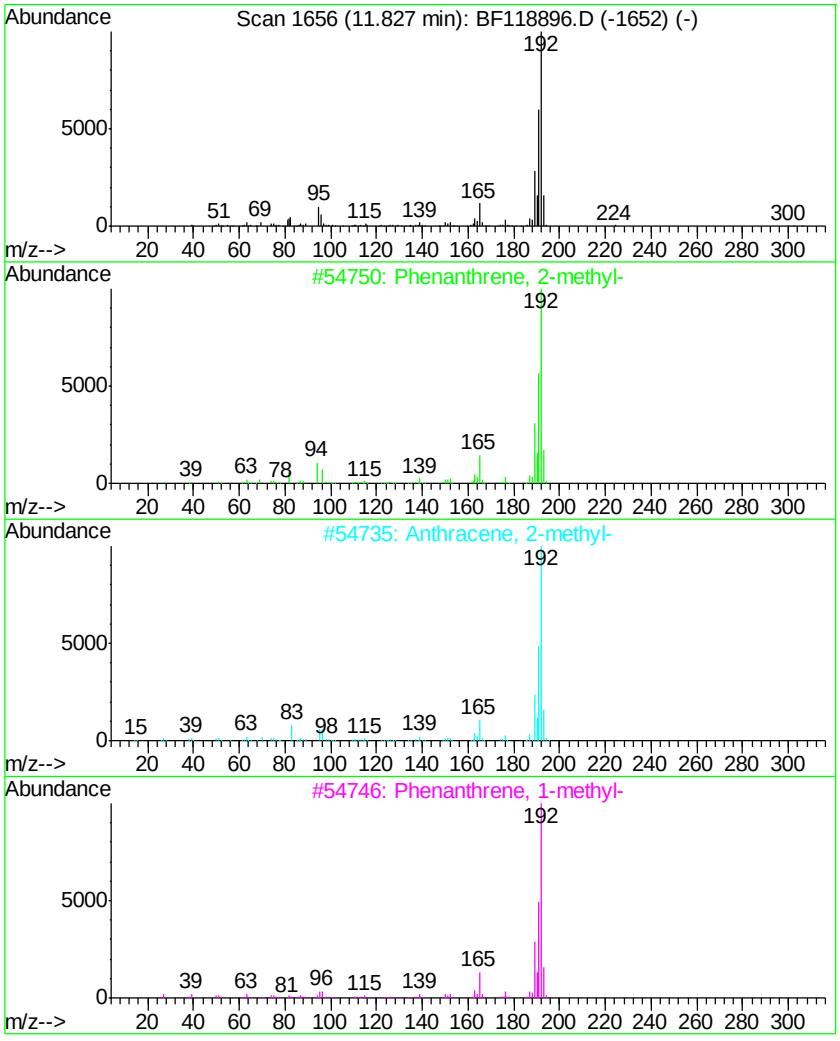
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

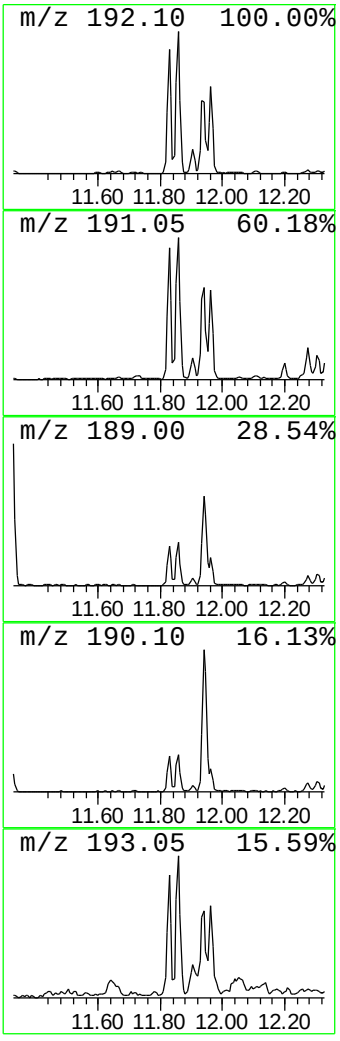
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.83 | 3.71 ng | 346732 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 93 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

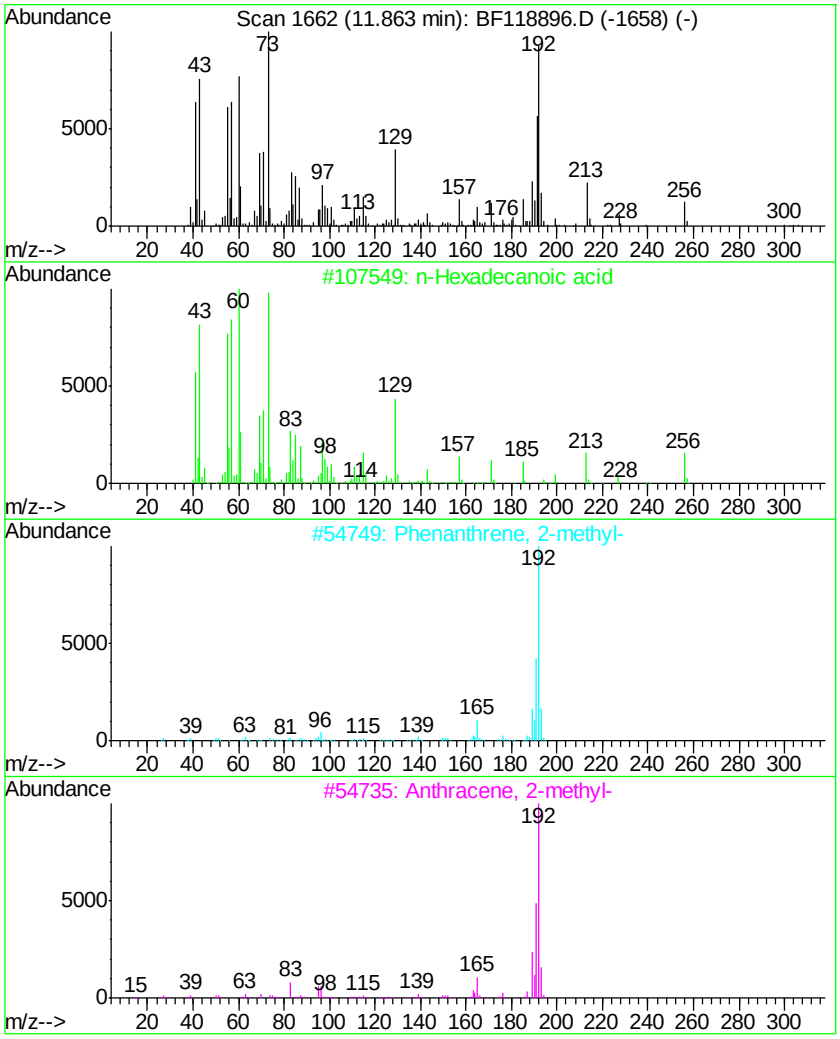
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

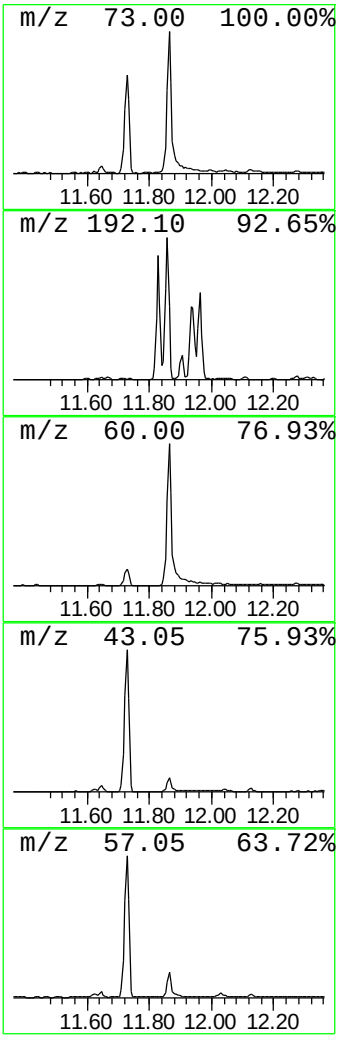
**********

Peak Number 6 n-Hexadecanoic acid Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 12.49 ng | 1166920 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 70 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 64 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

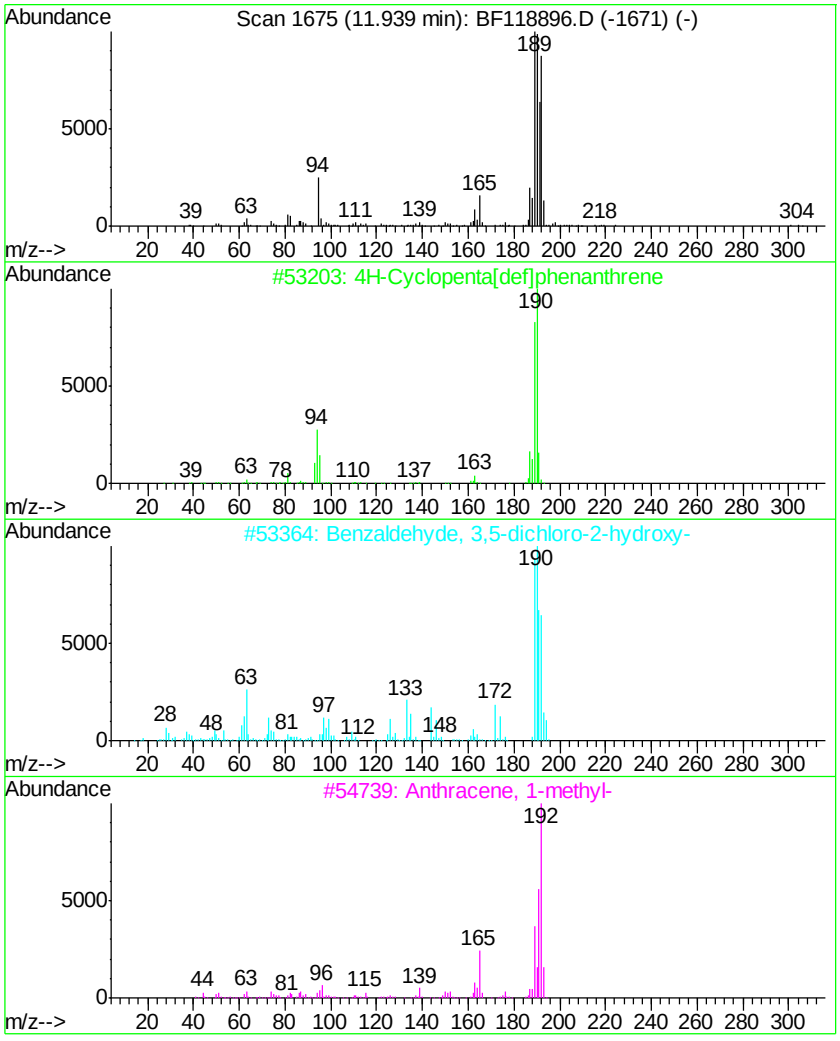
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

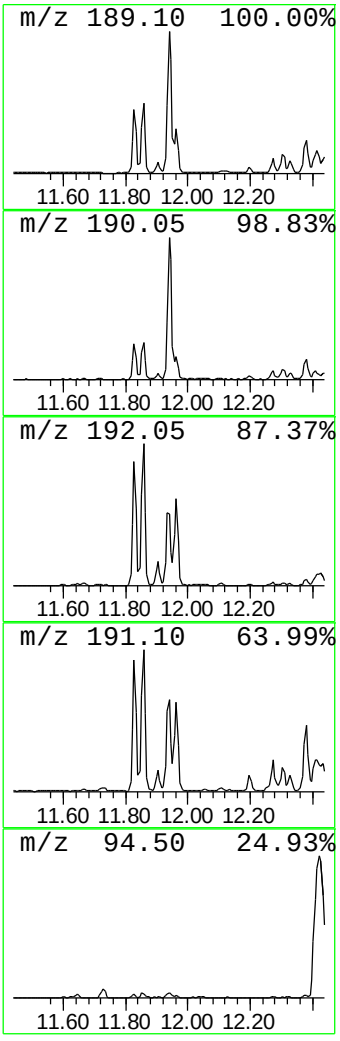
**********

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.94 | 5.45 ng | 509266 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 91 |
| 2 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 42 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 42 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 42 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

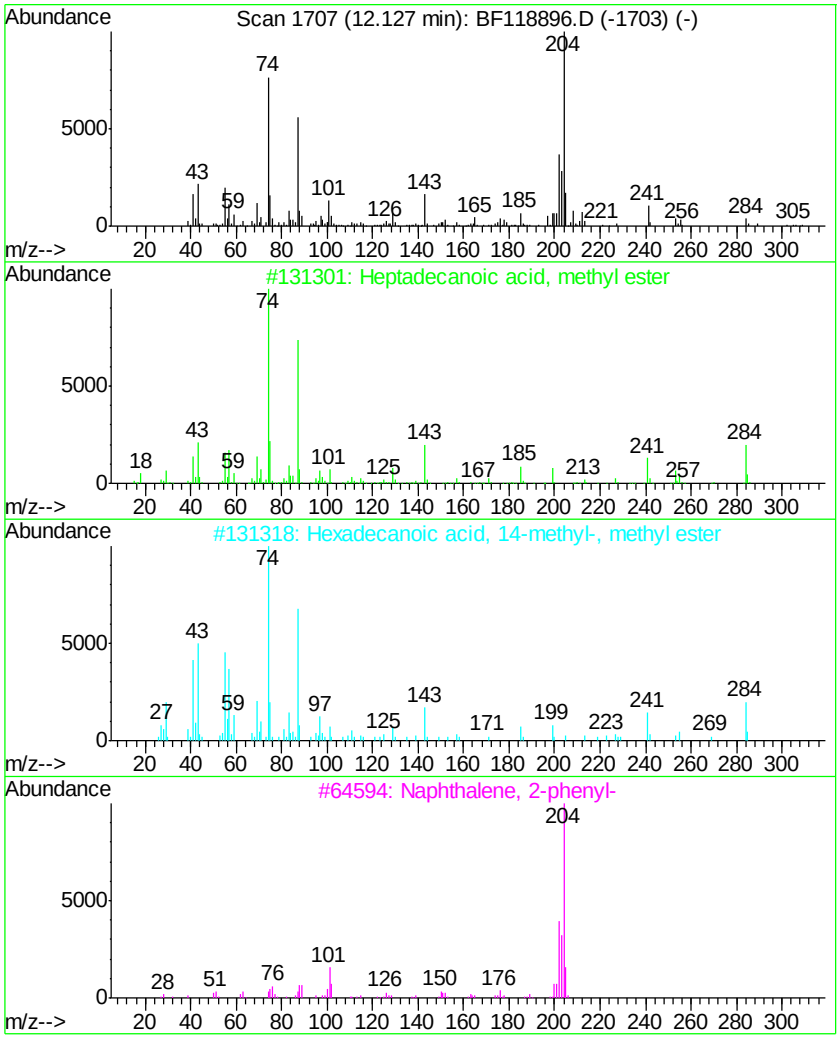
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

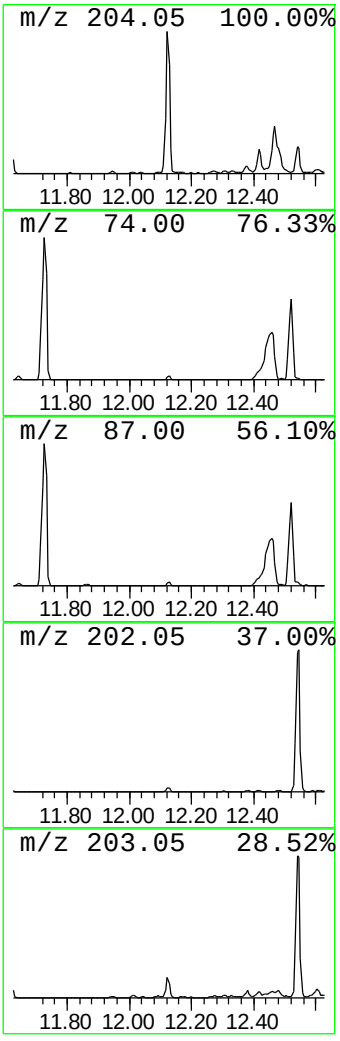
**********

Peak Number 8 Heptadecanoic acid, methyl ... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.13 | 3.80 ng | 354656 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 95 |
| 2 | Hexadecanoic acid, 14-methyl-, m... | 284 | C18H36O2 | 002490-49-5 | 87 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 81 |
| 4 | Decanoic acid, methyl ester | 186 | C11H22O2 | 000110-42-9 | 55 |
| 5 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 50 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

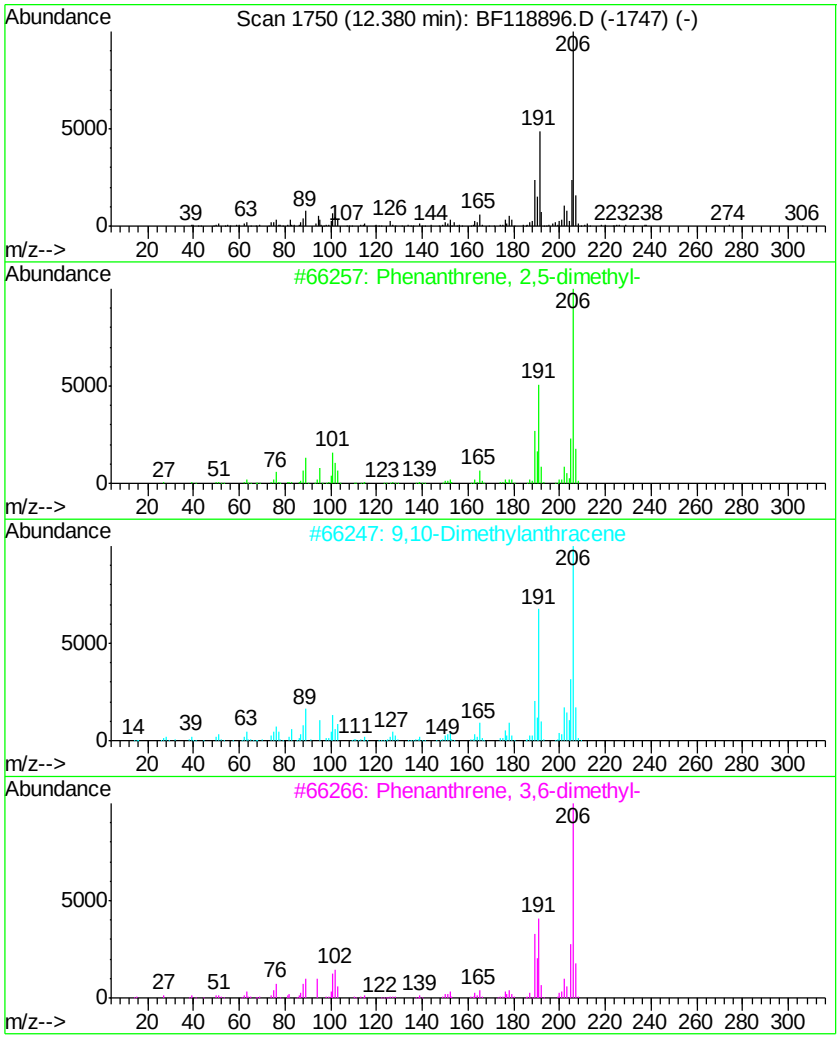
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

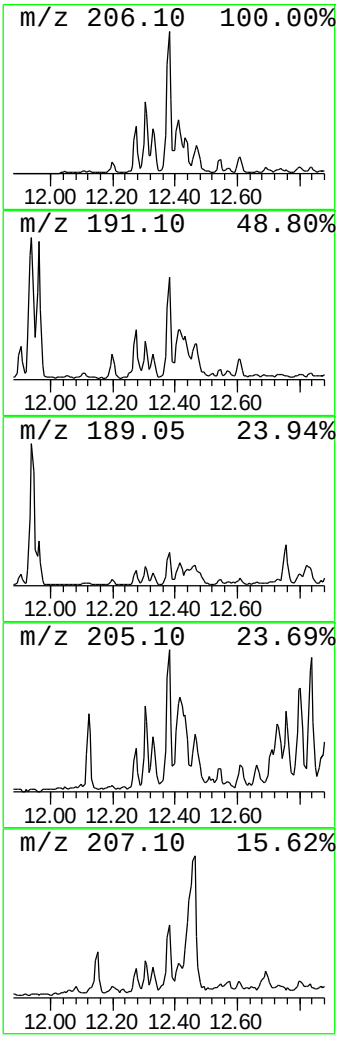
**********

Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.38 | 2.87 ng | 268349 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |
| 4 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 90 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

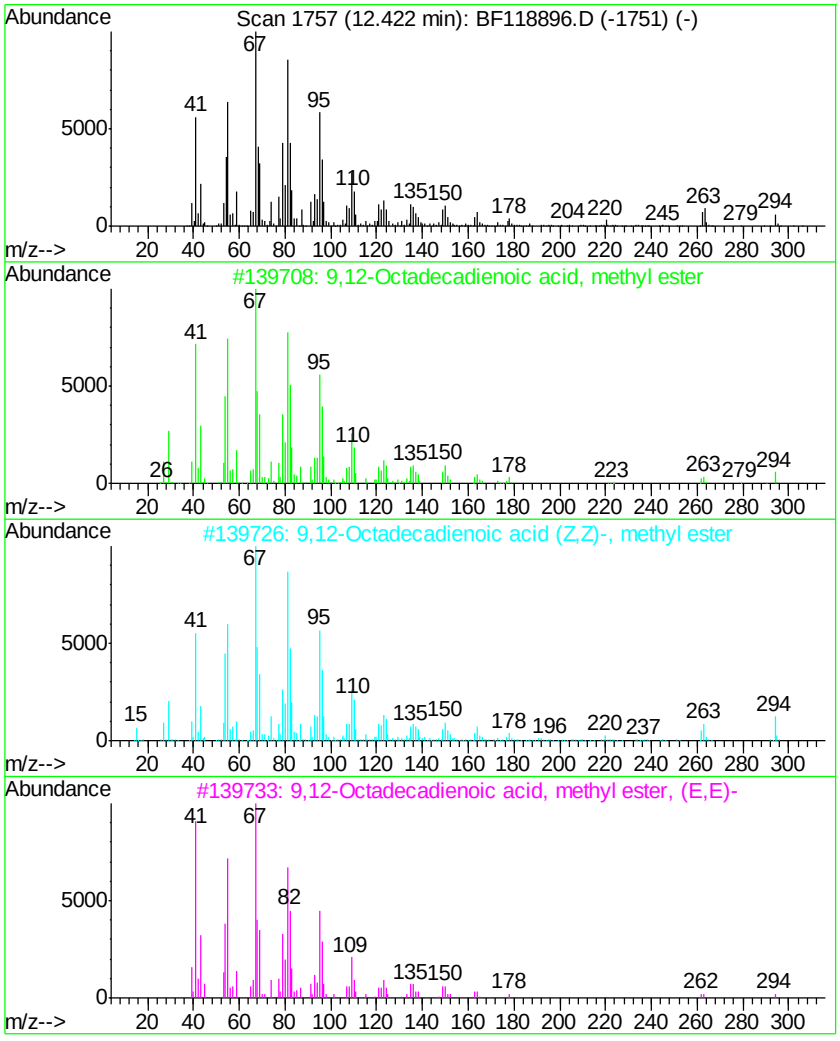
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

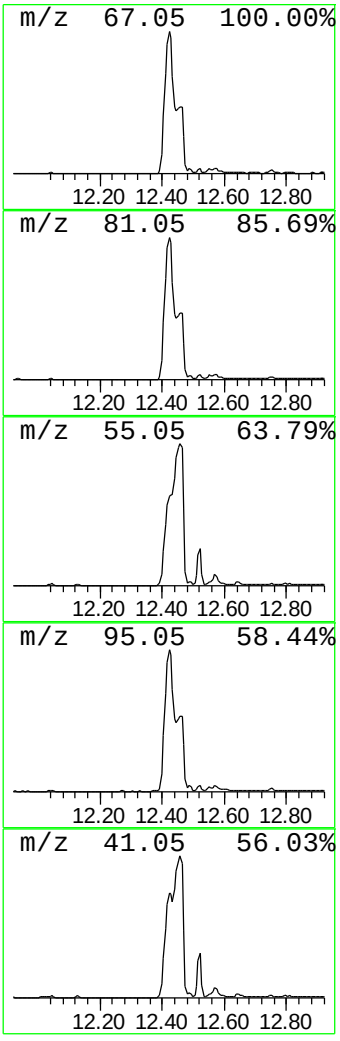
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 9,12-Octadecadienoic acid, ... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 194.68 ng | 18184300 | Phenanthrene-d10 | 11.33 |

| 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 (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99 |
| 3 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 4 | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99 |
| 5 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

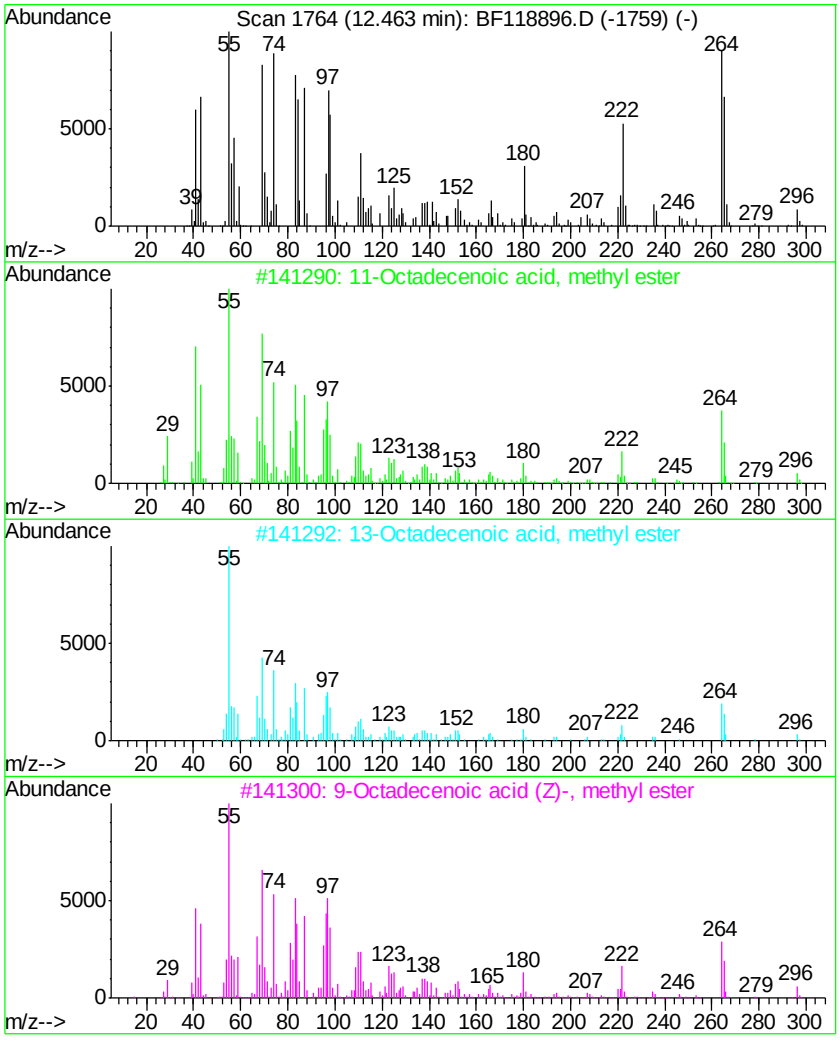
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

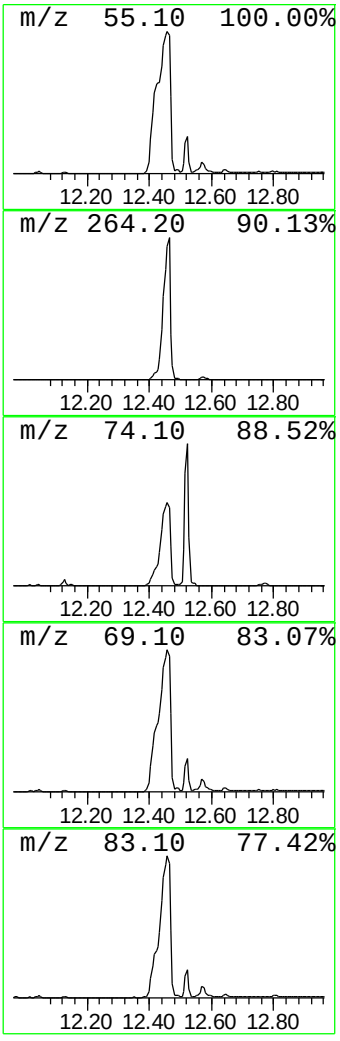
**********

Peak Number 11 11-Octadecenoic acid, methy... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.46 | 265.42 ng | 24792100 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052380-33-3 | 91 |
| 2 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 91 |
| 3 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 90 |
| 4 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 89 |
| 5 | cis-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1000333-58-3 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

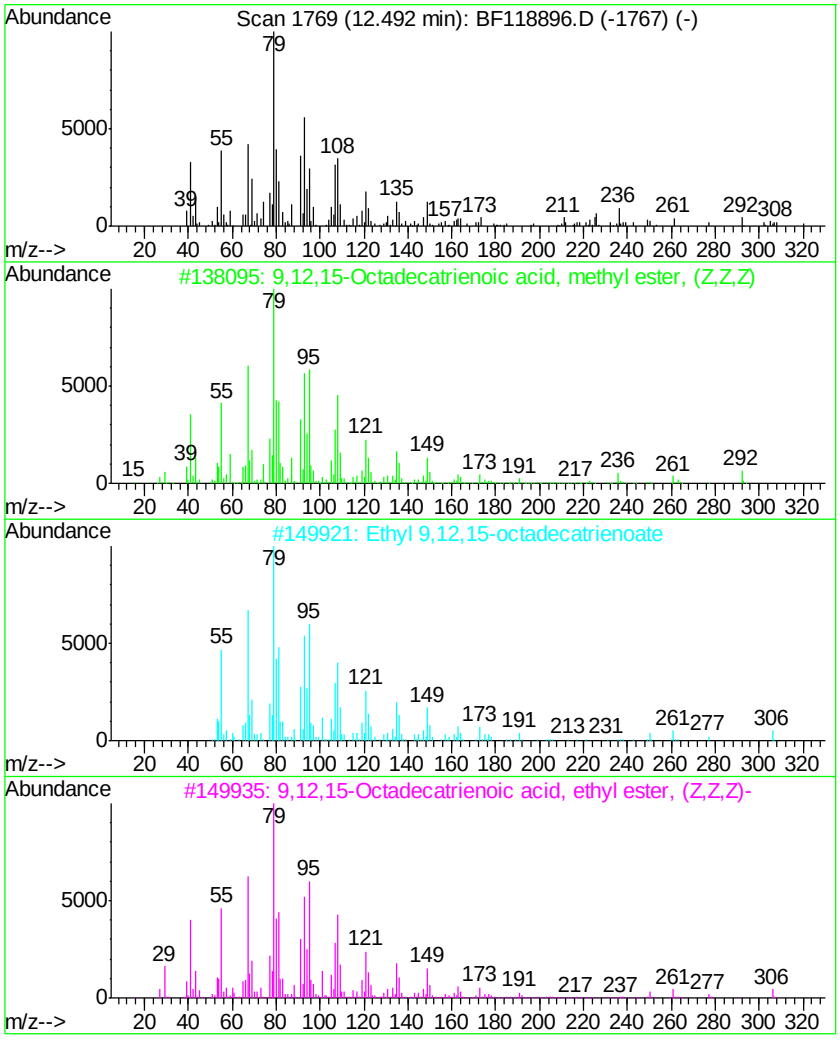
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

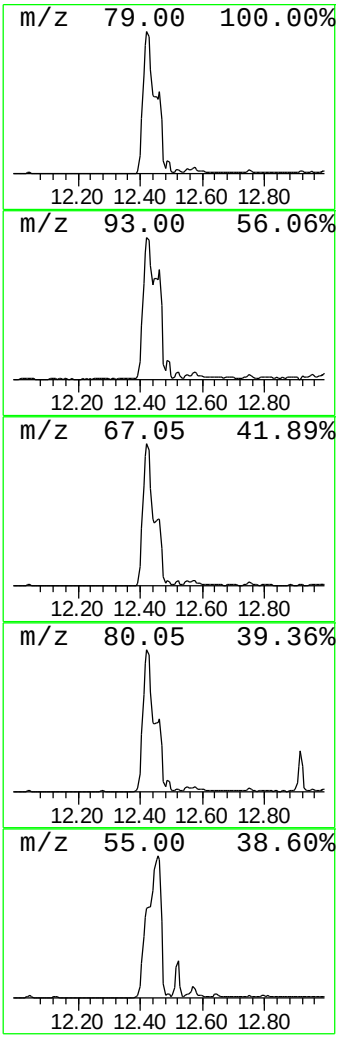
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 9,12,15-Octadecatrienoic ac... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 3.41 ng | 318298 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12,15-Octadecatrienoic acid, m... | 292 | C19H32O2 | 000301-00-8 | 98 |
| 2 | Ethyl 9,12,15-octadecatrienoate | 306 | C20H34O2 | 1000336-77-4 | 97 |
| 3 | 9,12,15-Octadecatrienoic acid, e... | 306 | C20H34O2 | 001191-41-9 | 83 |
| 4 | Methyl 2-hydroxy-octadeca-9,12,1... | 308 | C19H32O3 | 1000336-39-1 | 83 |
| 5 | Methyl 8,11,14,17-eicosatetraenoate | 318 | C21H34O2 | 1000336-47-0 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

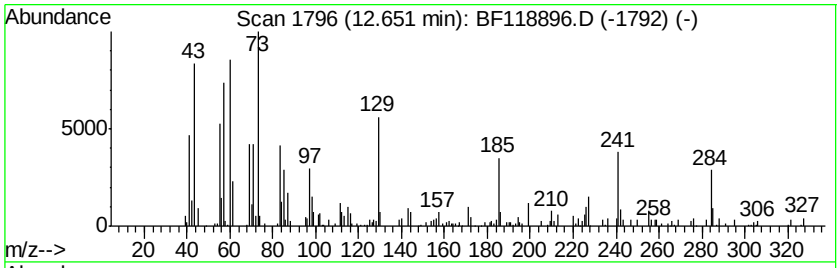
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

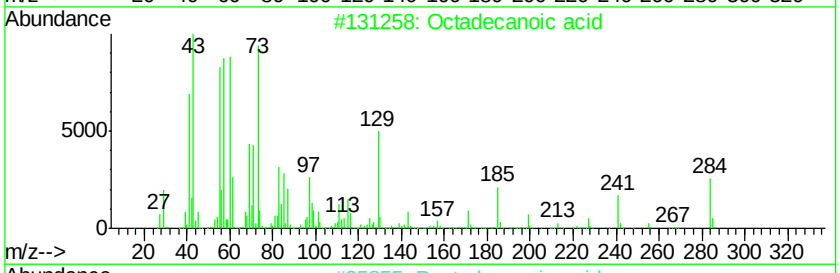
**********

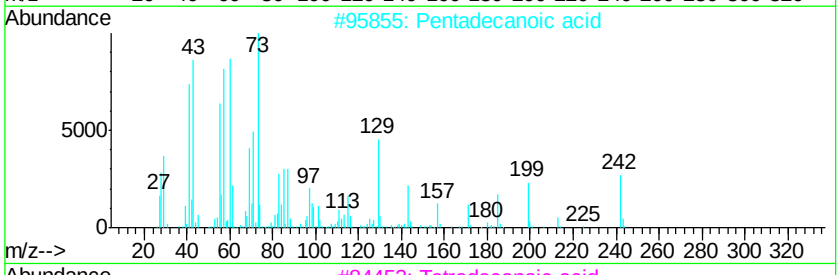
Peak Number 13 Octadecanoic acid Concentration Rank 20

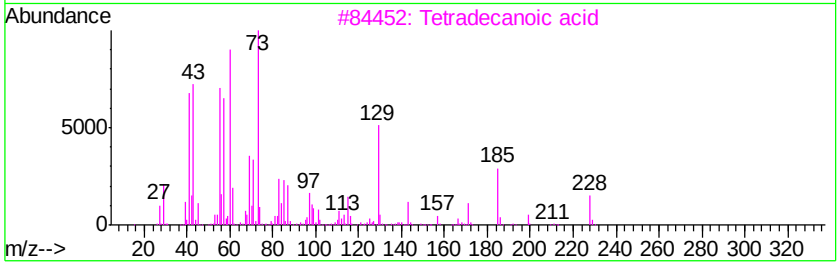
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.65 | 2.69 ng | 251283 | Phenanthrene-d10 | 11.33 |

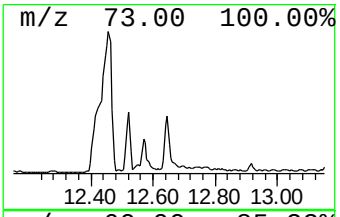
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 74 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 68 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 64 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 64 |

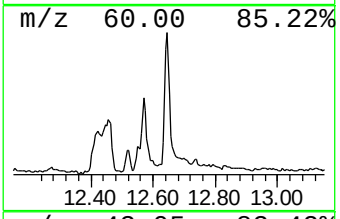


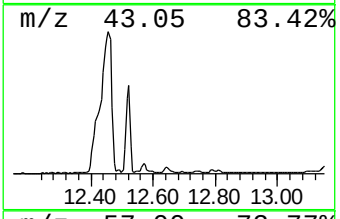



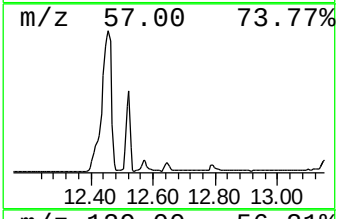



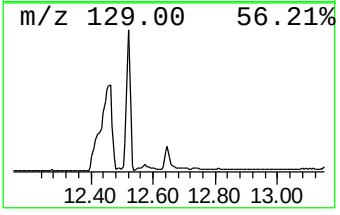



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

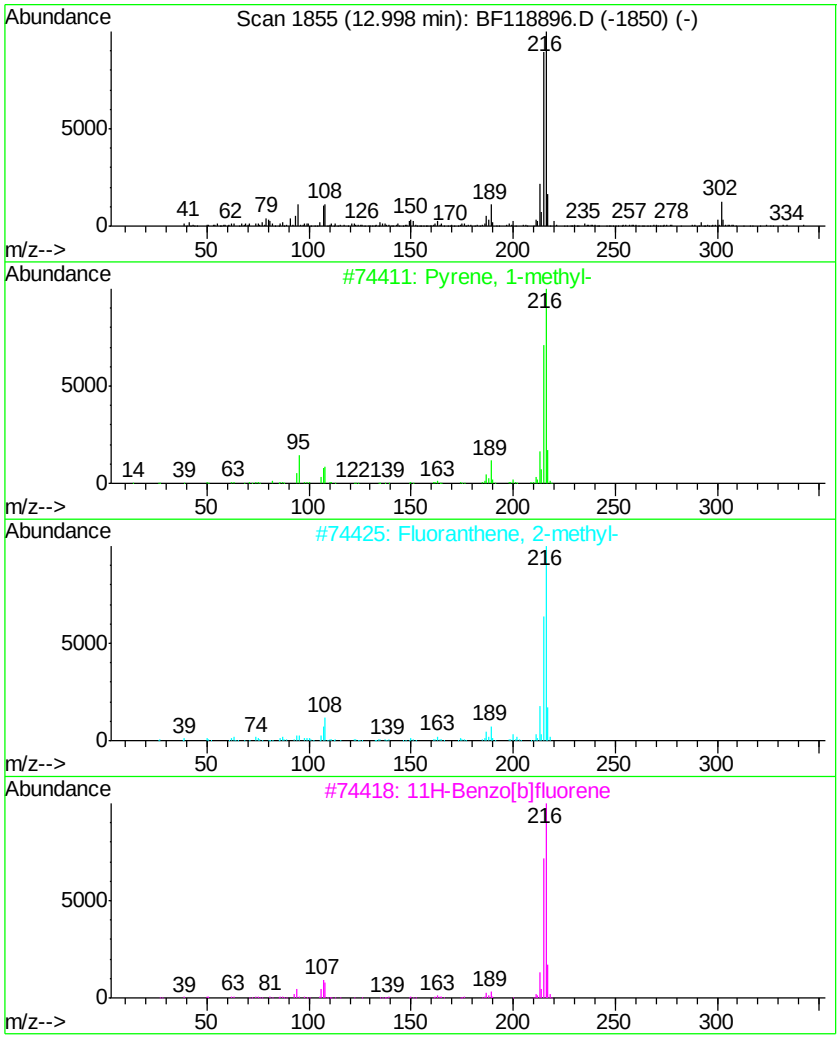
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

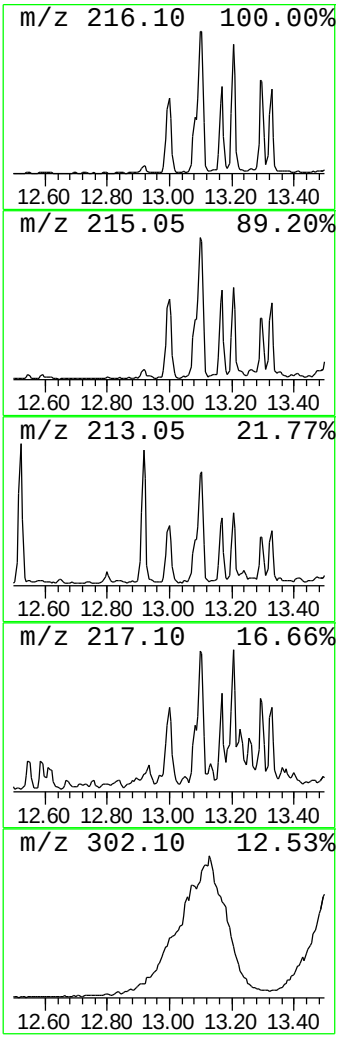
**********

Peak Number 14 Pyrene, 1-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.00 | 3.36 ng | 478792 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 83 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 70 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

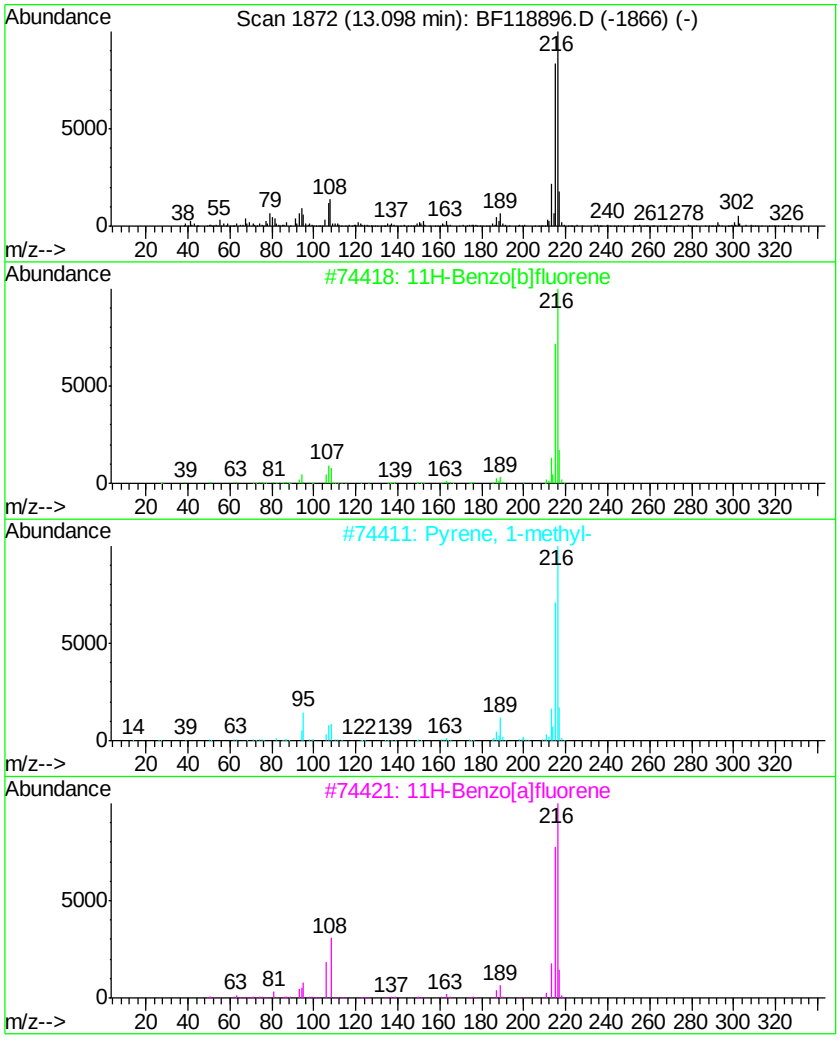
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

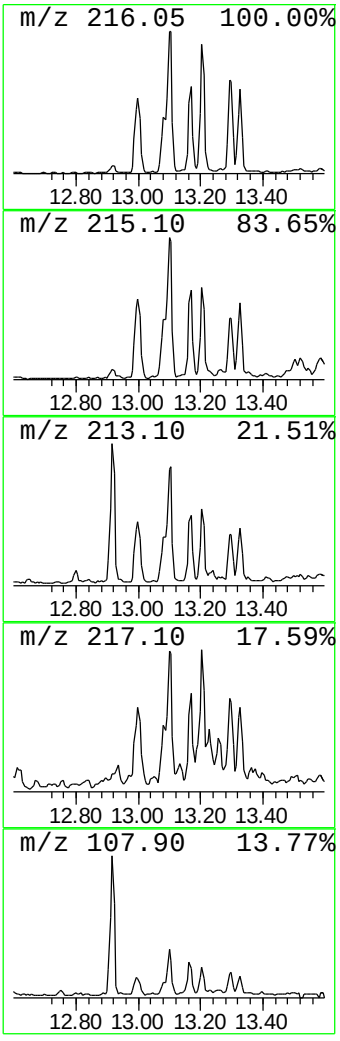
**********

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 5.50 ng | 783534 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 64 |



# Library Search Compound Report

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Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

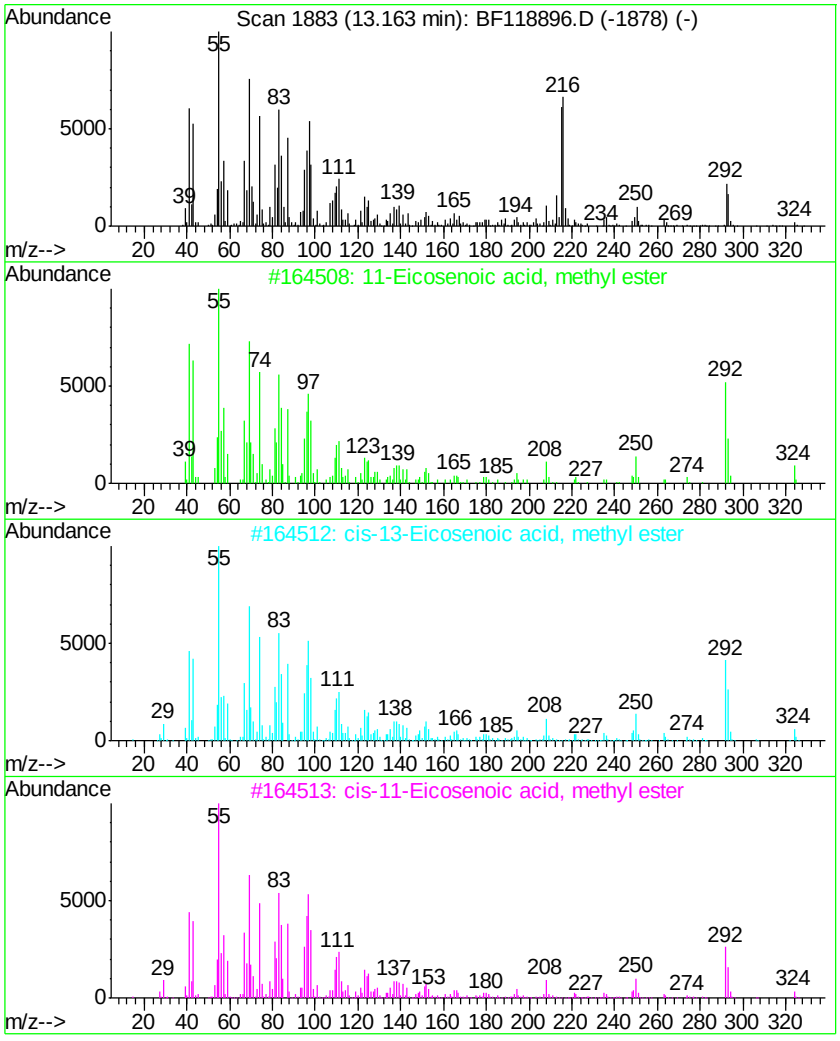
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

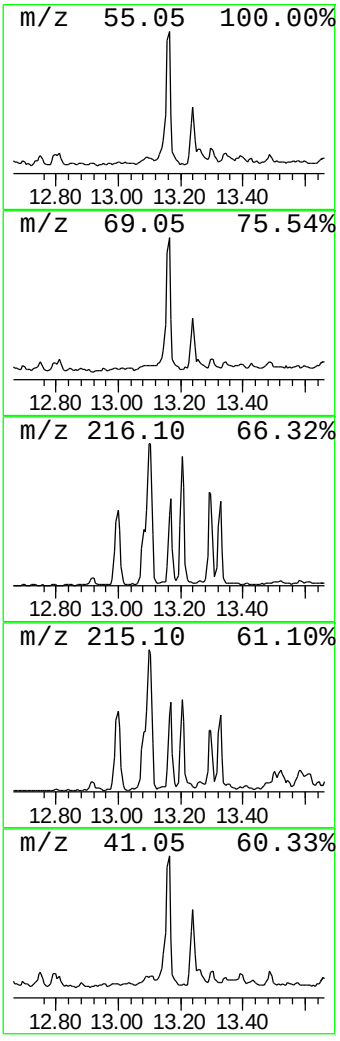
**********

Peak Number 16 11-Eicosenoic acid, methyl ... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.16 | 10.69 ng | 1522310 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11-Eicosenoic acid, methyl ester | 324 | C21H40O2 | 003946-08-5 | 97 |
| 2 | cis-13-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-52-1 | 97 |
| 3 | cis-11-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-63-8 | 95 |
| 4 | Methyl 5-eicosenoate | 324 | C21H40O2 | 1000336-48-3 | 93 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

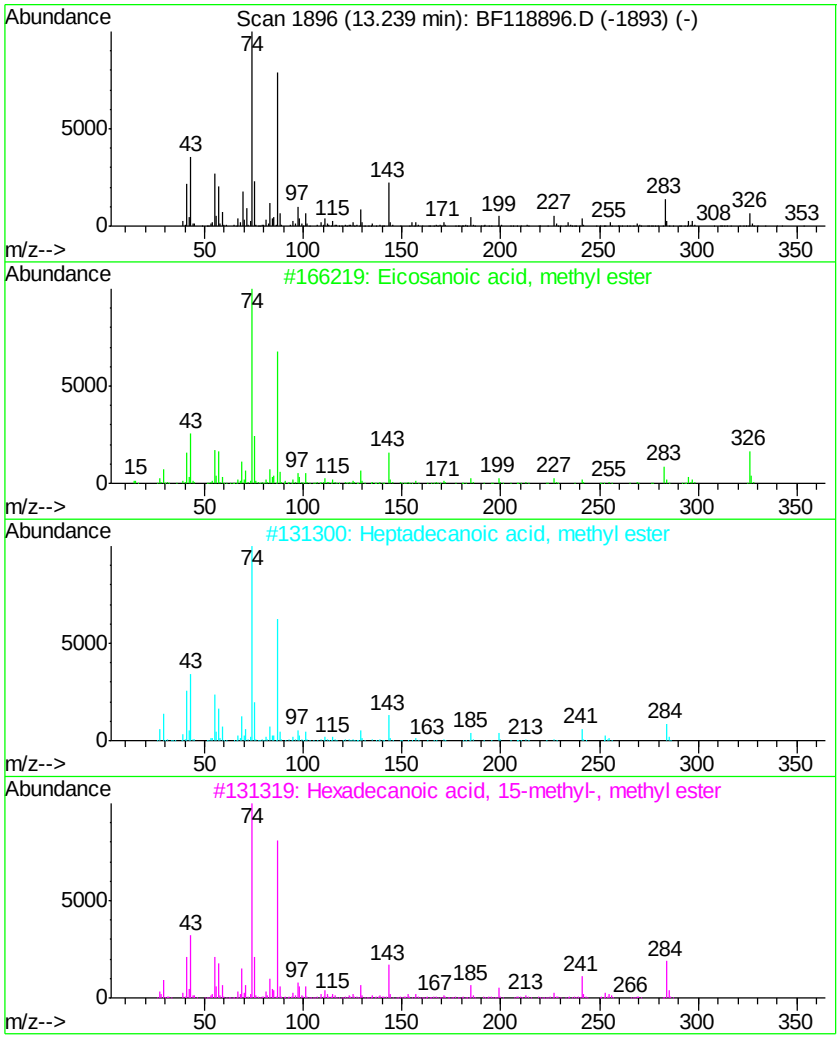
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

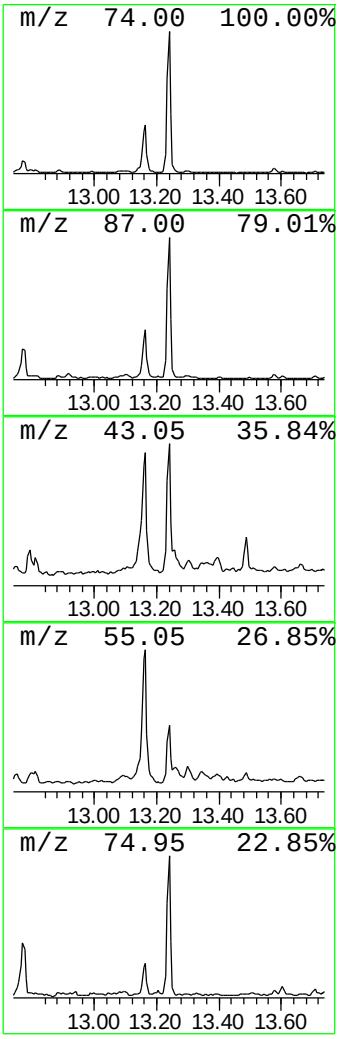
**********

Peak Number 17 Eicosanoic acid, methyl ester Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.24 | 4.55 ng | 648251 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosanoic acid, methyl ester | 326 | C21H42O2 | 001120-28-1 | 98 |
| 2 | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6 | 93 |
| 3 | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 90 |
| 4 | Methyl 18-methylnonadecanoate | 326 | C21H42O2 | 1000352-20-6 | 89 |
| 5 | Undecanoic acid, 10-methyl-, met... | 214 | C13H26O2 | 005129-56-6 | 87 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

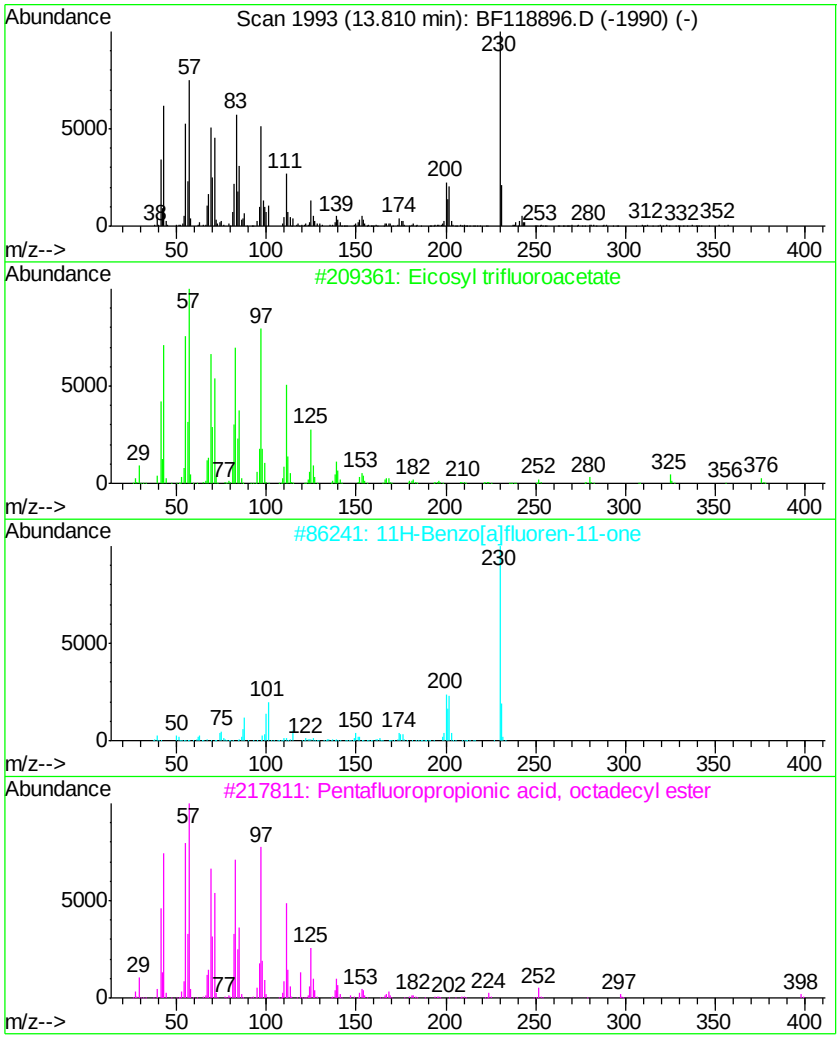
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

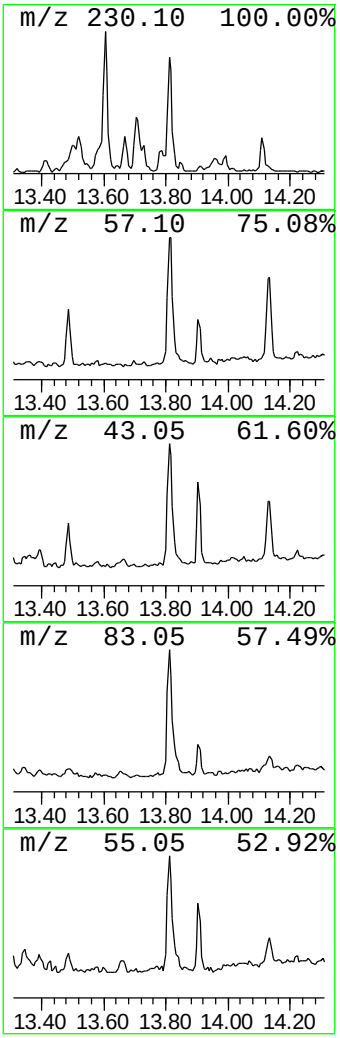
**********

Peak Number 18 Eicosyl trifluoroacetate Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.81 | 6.59 ng | 938397 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosyl trifluoroacetate | 394 | C22H41F3O2 | 1000351-75-2 | 64 |
| 2 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 60 |
| 3 | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 959261-25-7 | 50 |
| 4 | Eicosyl pentafluoropropionate | 444 | C23H41F5O2 | 1000351-80-8 | 50 |
| 5 | Nonadecyl pentafluoropropionate | 430 | C22H39F5O2 | 1000351-88-8 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

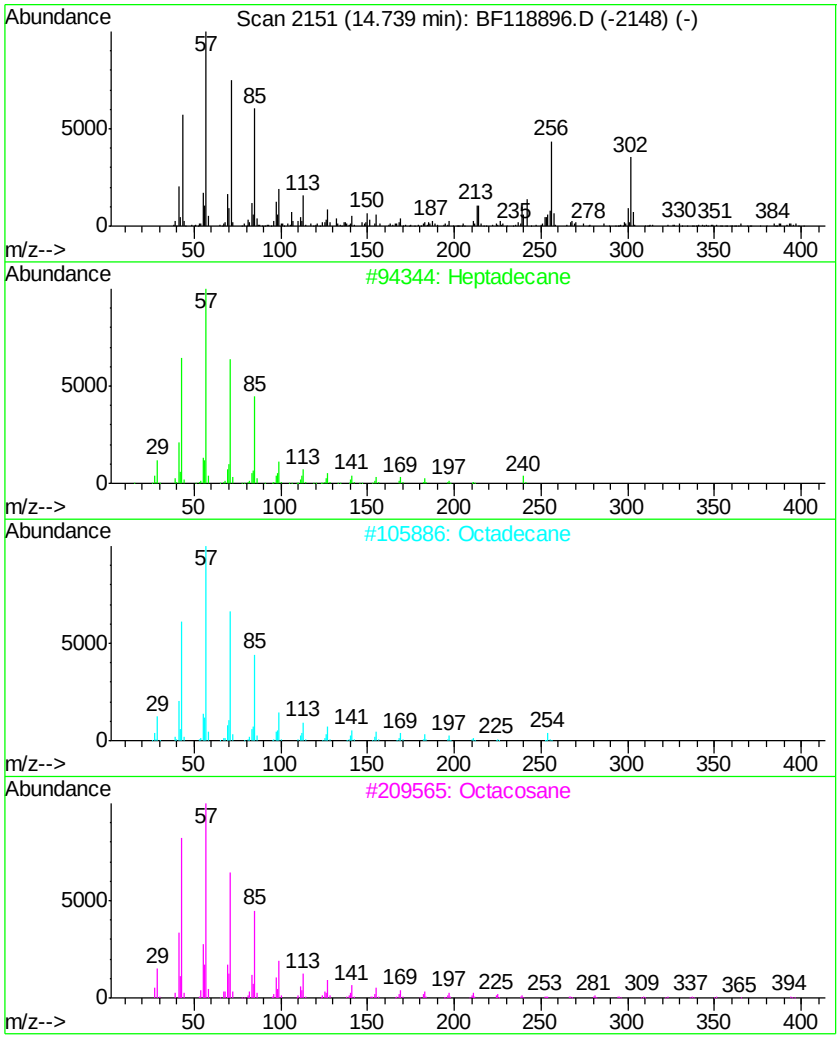
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

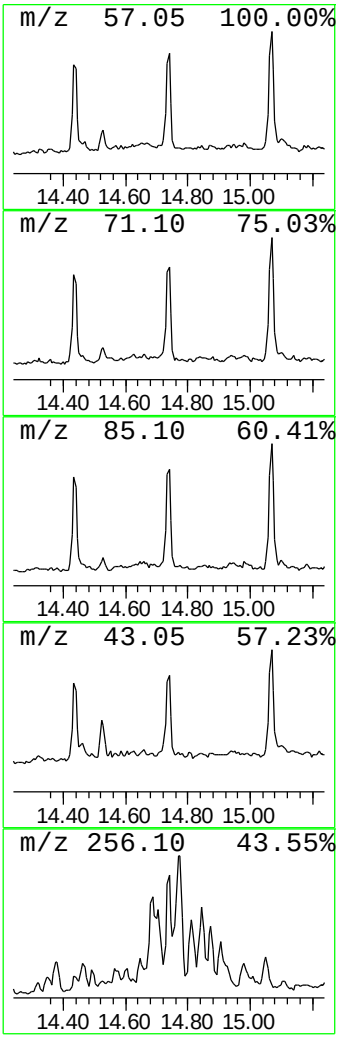
**********

Peak Number 19 Heptadecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.74 | 3.38 ng | 266002 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 78 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 78 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 78 |
| 5 | Decane, 1-iodo- | 268 | C10H21I | 002050-77-3 | 60 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

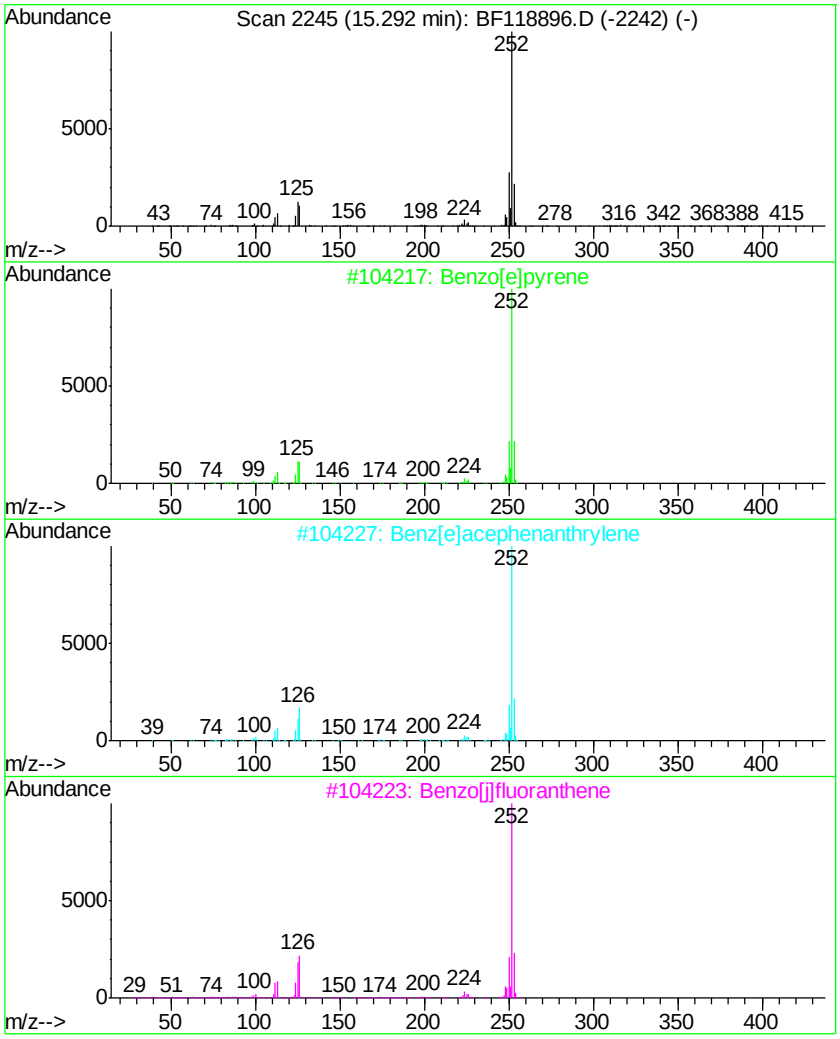
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

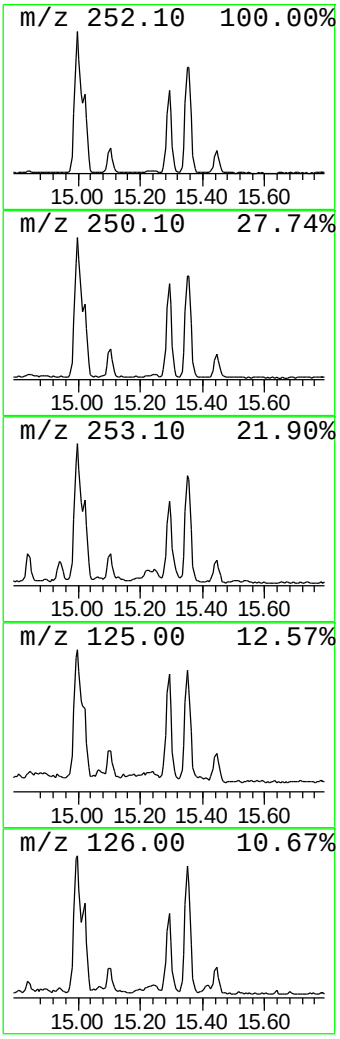
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.29 | 9.26 ng | 727769 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 97 |
| 3 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 95 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 95 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF021120\
Data File : BF118896.D
Acq On : 11 Feb 2020 21:03
Operator : CG/JU
Sample : L1373-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TR-05-021020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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 |
| Methyl tetradecan... | 10.85 | 3.4 | ng | 317489 | 4 | 11.33 | 1868120 | 20.0 |
| 9-Hexadecenoic ac... | 11.65 | 6.5 | ng | 603124 | 4 | 11.33 | 1868120 | 20.0 |
| Hexadecanoic acid... | 11.73 | 85.0 | ng | 7942490 | 4 | 11.33 | 1868120 | 20.0 |
| Phenanthrene, 2-m... | 11.83 | 3.7 | ng | 346732 | 4 | 11.33 | 1868120 | 20.0 |
| n-Hexadecanoic acid | 11.86 | 12.5 | ng | 1166920 | 4 | 11.33 | 1868120 | 20.0 |
| 4H-Cyclopenta[def... | 11.94 | 5.5 | ng | 509266 | 4 | 11.33 | 1868120 | 20.0 |
| Heptadecanoic aci... | 12.13 | 3.8 | ng | 354656 | 4 | 11.33 | 1868120 | 20.0 |
| Phenanthrene, 2,5... | 12.38 | 2.9 | ng | 268349 | 4 | 11.33 | 1868120 | 20.0 |
| 9,12-Octadecadien... | 12.42 | 194.7 | ng | 18184300 | 4 | 11.33 | 1868120 | 20.0 |
| 11-Octadecenoic a... | 12.46 | 265.4 | ng | 24792100 | 4 | 11.33 | 1868120 | 20.0 |
| 9,12,15-Octadecat... | 12.49 | 3.4 | ng | 318298 | 4 | 11.33 | 1868120 | 20.0 |
| Octadecanoic acid | 12.65 | 2.7 | ng | 251283 | 4 | 11.33 | 1868120 | 20.0 |
| Pyrene, 1-methyl- | 13.00 | 3.4 | ng | 478792 | 5 | 13.97 | 2846940 | 20.0 |
| 11H-Benzo[b]fluorene | 13.10 | 5.5 | ng | 783534 | 5 | 13.97 | 2846940 | 20.0 |
| 11-Eicosenoic aci... | 13.16 | 10.7 | ng | 1522310 | 5 | 13.97 | 2846940 | 20.0 |
| Eicosanoic acid, ... | 13.24 | 4.5 | ng | 648251 | 5 | 13.97 | 2846940 | 20.0 |
| Eicosyl trifluoro... | 13.81 | 6.6 | ng | 938397 | 5 | 13.97 | 2846940 | 20.0 |
| Heptadecane | 14.74 | 3.4 | ng | 266002 | 6 | 15.42 | 1572200 | 20.0 |
| Benzo[e]pyrene | 15.29 | 9.3 | ng | 727769 | 6 | 15.42 | 1572200 | 20.0 |