LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

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-BF101819.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 | 4.934 | 480 | 484 | 496 | rBV | 32994 | 52828 | 5.94% | 0.540% |
| 2 | 5.357 | 553 | 556 | 583 | rBV | 599057 | 779507 | 87.68% | 7.964% |
| 3 | 6.387 | 727 | 731 | 747 | rBV | 634672 | 855036 | 96.18% | 8.736% |
| 4 | 6.504 | 747 | 751 | 763 | rVB | 934944 | 889008 | 100.00% | 9.083% |
| 5 | 6.728 | 786 | 789 | 800 | rBV | 313329 | 288221 | 32.42% | 2.945% |
| 6 | 6.881 | 812 | 815 | 828 | rBV | 680964 | 642754 | 72.30% | 6.567% |
| 7 | 7.292 | 882 | 885 | 906 | rBV | 458637 | 516342 | 58.08% | 5.276% |
| 8 | 8.010 | 1003 | 1007 | 1020 | rBV | 330689 | 363439 | 40.88% | 3.713% |
| 9 | 8.104 | 1020 | 1023 | 1032 | rVB2 | 12242 | 19331 | 2.17% | 0.198% |
| 10 | 9.081 | 1185 | 1189 | 1201 | rBV | 929863 | 816671 | 91.86% | 8.344% |
| 11 | 9.481 | 1254 | 1257 | 1266 | rVB | 50203 | 46165 | 5.19% | 0.472% |
| 12 | 9.757 | 1301 | 1304 | 1308 | rBV | 348953 | 342279 | 38.50% | 3.497% |
| 13 | 9.792 | 1308 | 1310 | 1317 | rVB | 33065 | 33360 | 3.75% | 0.341% |
| 14 | 10.310 | 1396 | 1398 | 1404 | rBV2 | 17280 | 18153 | 2.04% | 0.185% |
| 15 | 10.557 | 1436 | 1440 | 1452 | rBV | 303259 | 344778 | 38.78% | 3.523% |
| 16 | 10.733 | 1467 | 1470 | 1473 | rBV | 11690 | 12692 | 1.43% | 0.130% |
| 17 | 10.804 | 1478 | 1482 | 1488 | rVB3 | 26009 | 35078 | 3.95% | 0.358% |
| 18 | 10.910 | 1497 | 1500 | 1504 | rVB3 | 6960 | 9336 | 1.05% | 0.095% |
| 19 | 10.945 | 1504 | 1506 | 1509 | rBV | 11162 | 9861 | 1.11% | 0.101% |
| 20 | 11.245 | 1554 | 1557 | 1559 | rBV | 287312 | 252023 | 28.35% | 2.575% |
| 21 | 11.269 | 1559 | 1561 | 1565 | rVV | 200795 | 191875 | 21.58% | 1.960% |
| 22 | 11.328 | 1568 | 1571 | 1578 | rVB | 47136 | 52364 | 5.89% | 0.535% |
| 23 | 11.492 | 1594 | 1599 | 1604 | rBV2 | 12742 | 16816 | 1.89% | 0.172% |
| 24 | 11.751 | 1640 | 1643 | 1645 | rBV | 18068 | 16857 | 1.90% | 0.172% |
| 25 | 11.775 | 1645 | 1647 | 1654 | rVV2 | 54753 | 68371 | 7.69% | 0.699% |
| 26 | 11.827 | 1654 | 1656 | 1659 | rVV2 | 13136 | 14215 | 1.60% | 0.145% |
| 27 | 11.863 | 1659 | 1662 | 1665 | rVV | 35086 | 41136 | 4.63% | 0.420% |
| 28 | 11.886 | 1665 | 1666 | 1670 | rVB | 13800 | 9657 | 1.09% | 0.099% |
| 29 | 12.045 | 1689 | 1693 | 1699 | rBV | 15621 | 17359 | 1.95% | 0.177% |
| 30 | 12.092 | 1699 | 1701 | 1704 | rBV2 | 10370 | 10435 | 1.17% | 0.107% |
| 31 | 12.298 | 1732 | 1736 | 1739 | rBV | 13800 | 15290 | 1.72% | 0.156% |
| 32 | 12.398 | 1748 | 1753 | 1756 | rVB5 | 9048 | 9472 | 1.07% | 0.097% |
| 33 | 12.463 | 1761 | 1764 | 1770 | rVV | 305592 | 260427 | 29.29% | 2.661% |
| 34 | 12.557 | 1778 | 1780 | 1783 | rBV4 | 12095 | 11858 | 1.33% | 0.121% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.616 | 1787 | 1790 | 1792 | rVB3 | 12526 | 10556 | 1.19% | 0.108% |
| 36 | 12.692 | 1797 | 1803 | 1807 | rBV | 249961 | 277357 | 31.20% | 2.834% |
| 37 | 12.827 | 1822 | 1826 | 1831 | rBV | 589286 | 526687 | 59.24% | 5.381% |
| 38 | 12.910 | 1836 | 1840 | 1841 | rBV3 | 13356 | 17622 | 1.98% | 0.180% |
| 39 | 12.998 | 1852 | 1855 | 1857 | rBV3 | 14295 | 19225 | 2.16% | 0.196% |
| 40 | 13.022 | 1857 | 1859 | 1862 | rVB | 32970 | 27201 | 3.06% | 0.278% |
| 41 | 13.086 | 1868 | 1870 | 1873 | rBV | 25318 | 23871 | 2.69% | 0.244% |
| 42 | 13.127 | 1873 | 1877 | 1883 | rVV3 | 21379 | 36980 | 4.16% | 0.378% |
| 43 | 13.216 | 1890 | 1892 | 1895 | rBV | 11645 | 12097 | 1.36% | 0.124% |
| 44 | 13.251 | 1896 | 1898 | 1901 | rVV3 | 10013 | 10743 | 1.21% | 0.110% |
| 45 | 13.398 | 1919 | 1923 | 1924 | rBV4 | 13457 | 15604 | 1.76% | 0.159% |
| 46 | 13.504 | 1939 | 1941 | 1945 | rBV4 | 9511 | 16004 | 1.80% | 0.164% |
| 47 | 13.545 | 1945 | 1948 | 1950 | rBV | 20477 | 18859 | 2.12% | 0.193% |
| 48 | 13.645 | 1962 | 1965 | 1967 | rBV2 | 24696 | 29347 | 3.30% | 0.300% |
| 49 | 13.698 | 1971 | 1974 | 1976 | rBV | 18931 | 21329 | 2.40% | 0.218% |
| 50 | 13.727 | 1976 | 1979 | 1982 | rBV4 | 46585 | 63769 | 7.17% | 0.652% |
| 51 | 13.857 | 1999 | 2001 | 2003 | rBV | 40307 | 37283 | 4.19% | 0.381% |
| 52 | 13.892 | 2003 | 2007 | 2010 | rVV2 | 346535 | 465986 | 52.42% | 4.761% |
| 53 | 13.916 | 2010 | 2011 | 2018 | rVB | 129650 | 125868 | 14.16% | 1.286% |
| 54 | 13.998 | 2023 | 2025 | 2029 | rVB2 | 23188 | 22667 | 2.55% | 0.232% |
| 55 | 14.039 | 2030 | 2032 | 2034 | rBV3 | 20086 | 16537 | 1.86% | 0.169% |
| 56 | 14.345 | 2081 | 2084 | 2088 | rBV2 | 44024 | 47602 | 5.35% | 0.486% |
| 57 | 14.639 | 2132 | 2134 | 2137 | rVB | 44957 | 43838 | 4.93% | 0.448% |
| 58 | 14.921 | 2179 | 2182 | 2185 | rBV | 123991 | 161948 | 18.22% | 1.655% |
| 59 | 15.210 | 2228 | 2231 | 2234 | rVB | 60216 | 62332 | 7.01% | 0.637% |
| 60 | 15.274 | 2239 | 2242 | 2245 | rVV | 89332 | 107954 | 12.14% | 1.103% |
| 61 | 15.327 | 2246 | 2251 | 2263 | rVB | 204434 | 392687 | 44.17% | 4.012% |
| 62 | 15.715 | 2314 | 2317 | 2322 | rVB3 | 49207 | 61081 | 6.87% | 0.624% |
| 63 | 15.951 | 2353 | 2357 | 2361 | rVB5 | 31282 | 51508 | 5.79% | 0.526% |

Sum of corrected areas: 9787536

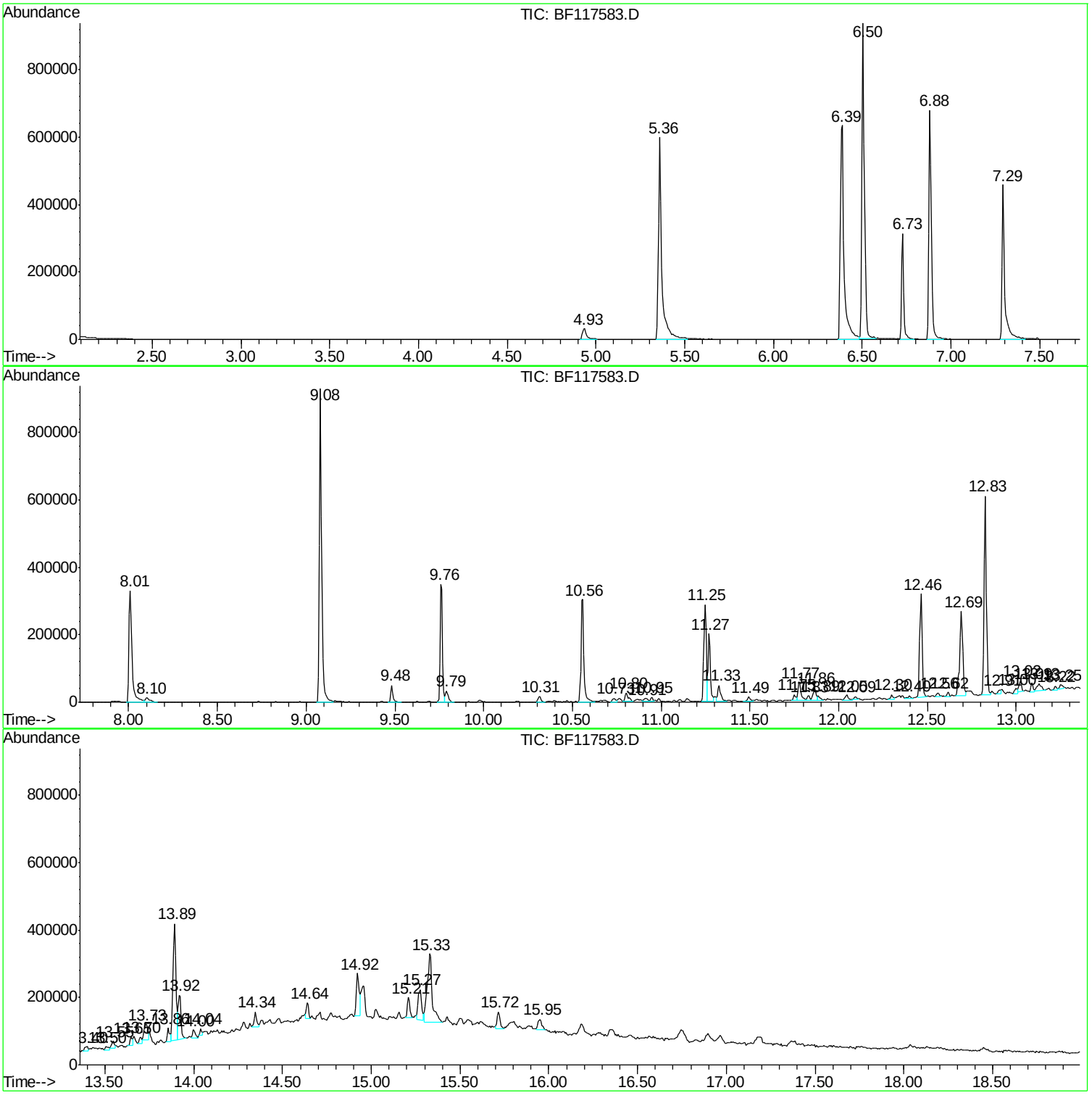
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

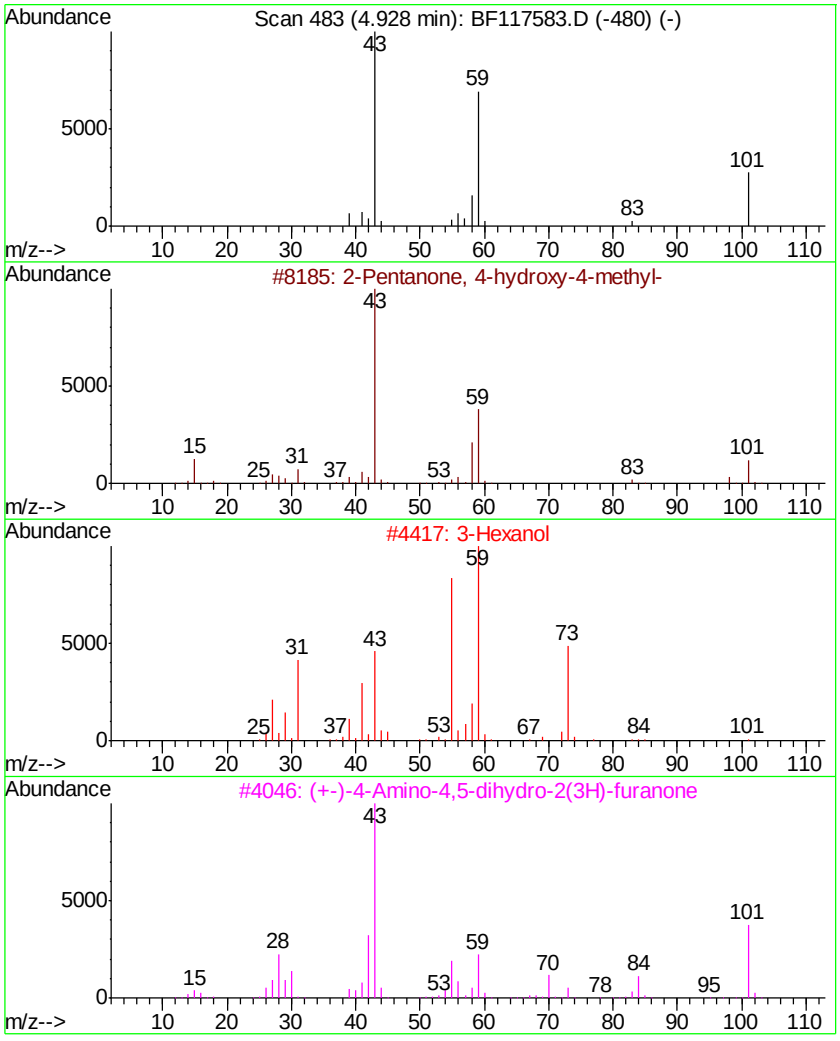
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

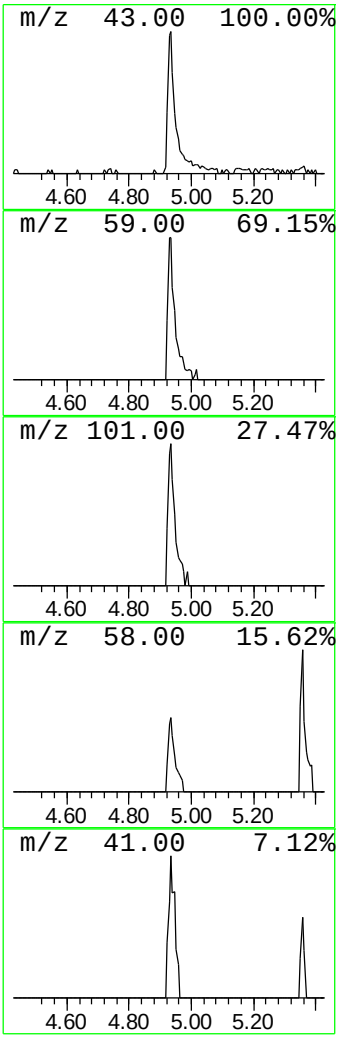
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.93 | 3.67 ng | 52828 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | 3-Hexanol | 102 | C6H14O | 000623-37-0 | 28 |
| 3 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 28 |
| 4 | 1,2-Butanediol | 90 | C4H10O2 | 000584-03-2 | 25 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

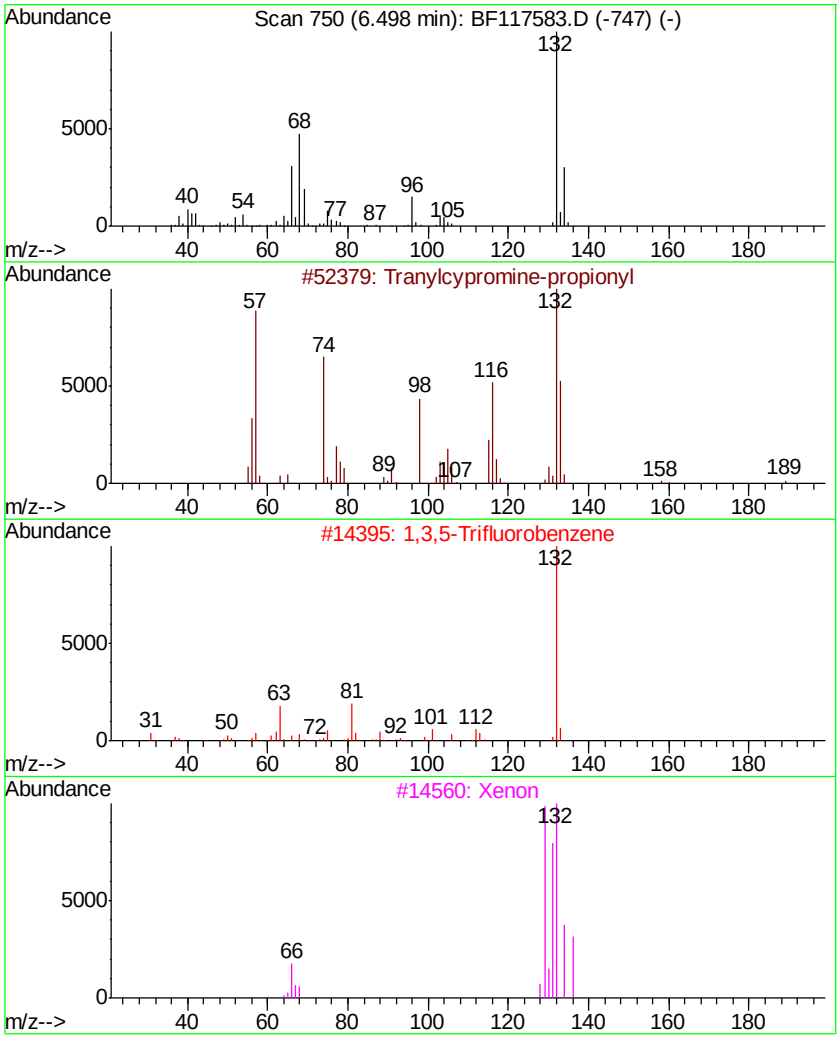
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

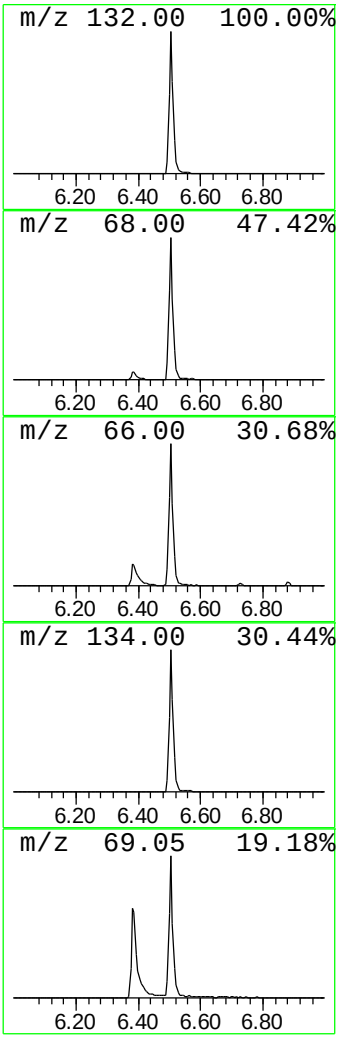
**********

Peak Number 2 unknown6.50 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.50 | 61.69 ng | 889008 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 2 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 3 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

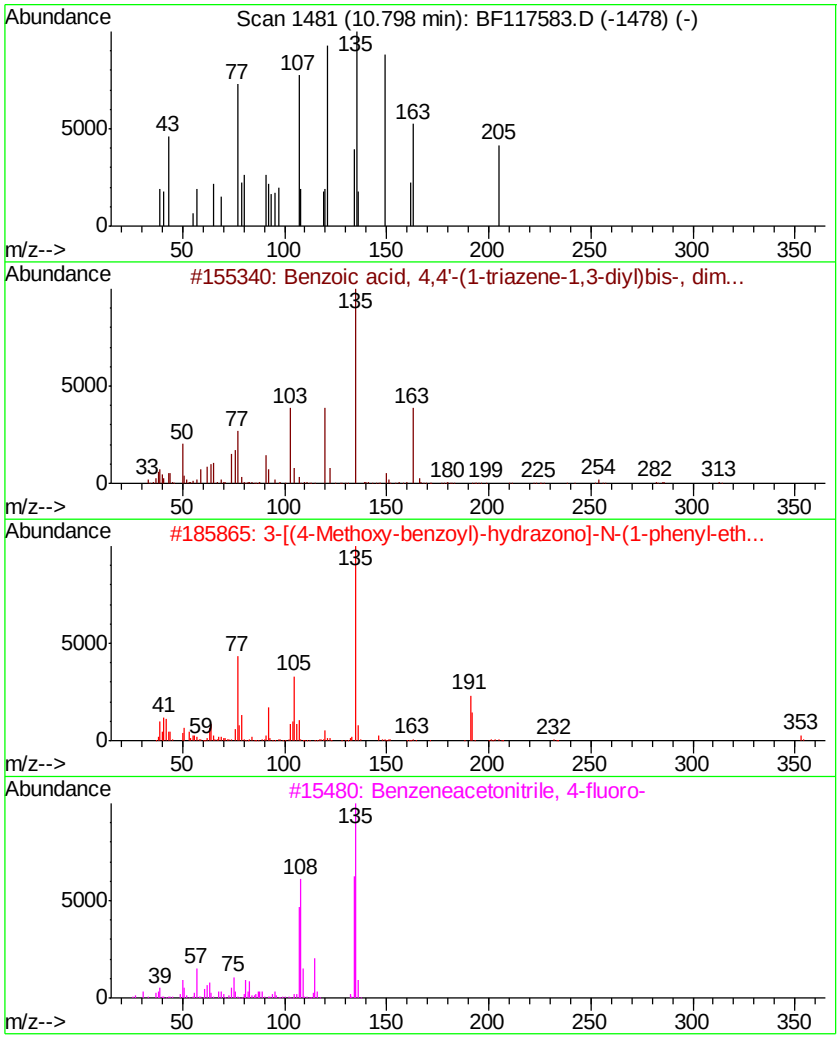
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

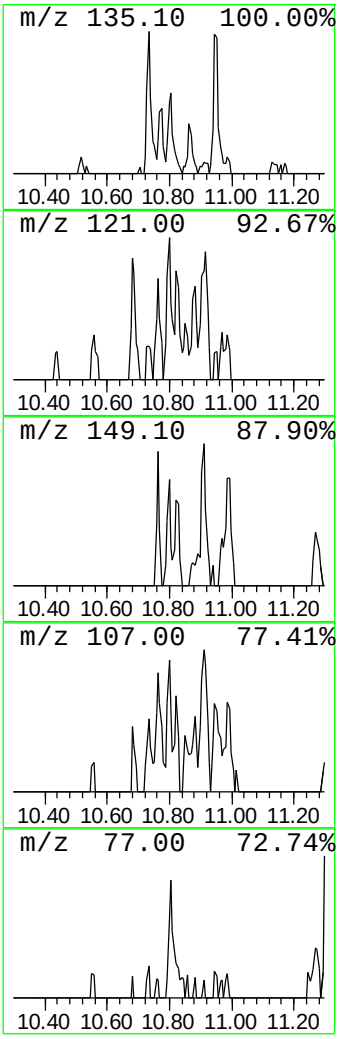
**********

Peak Number 4 unknown10.80 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 2.78 ng | 35078 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 4,4'-(1-triazene-1... | 313 | C16H15N3O4 | 055842-28-9 | 27 |
| 2 | 3-[(4-Methoxy-benzoyl)-hydrazono... | 353 | C20H23N3O3 | 1000295-96-5 | 27 |
| 3 | Benzeneacetonitrile, 4-fluoro- | 135 | C8H6FN | 000459-22-3 | 25 |
| 4 | Benzenamine, N,N,2-trimethyl- | 135 | C9H13N | 000609-72-3 | 25 |
| 5 | 3,4-Pyridinedimethanol, 6-methyl- | 153 | C8H11NO2 | 004664-11-3 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

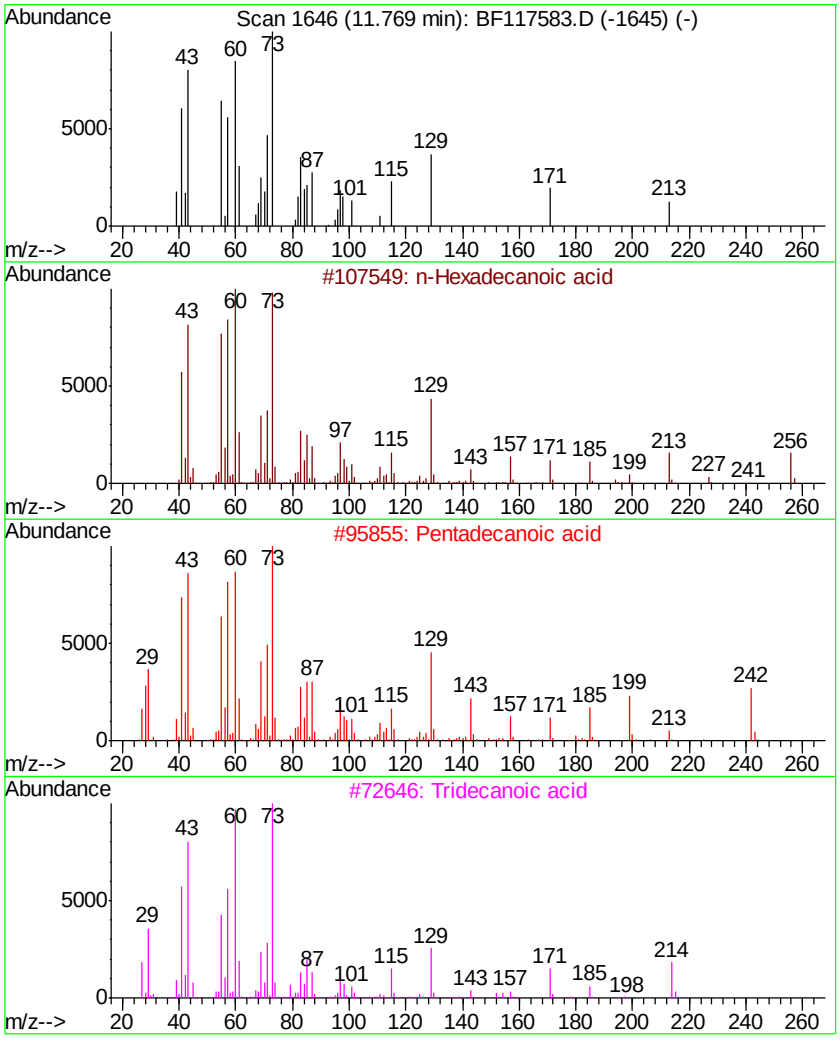
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

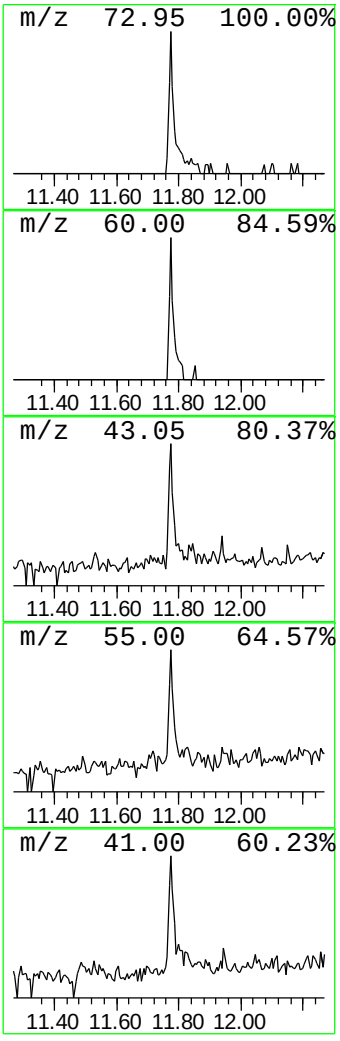
**********

Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 5.43 ng | 68371 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 92 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 68 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 53 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 50 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
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Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

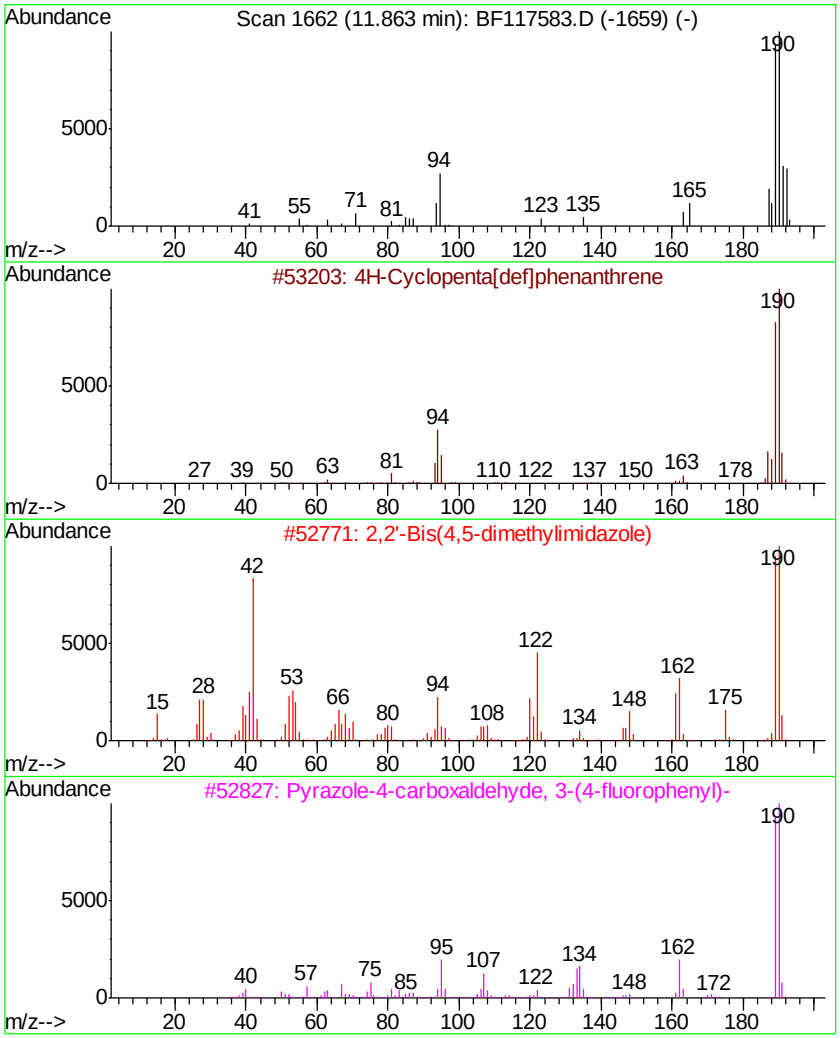
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

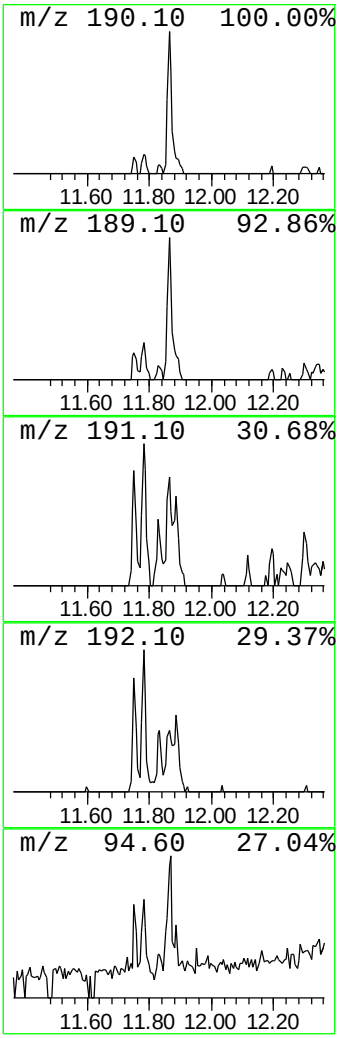
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 3.26 ng | 41136 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 83 |
| 2 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 42 |
| 3 | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O | 306936-57-2 | 40 |
| 4 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 38 |
| 5 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 38 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

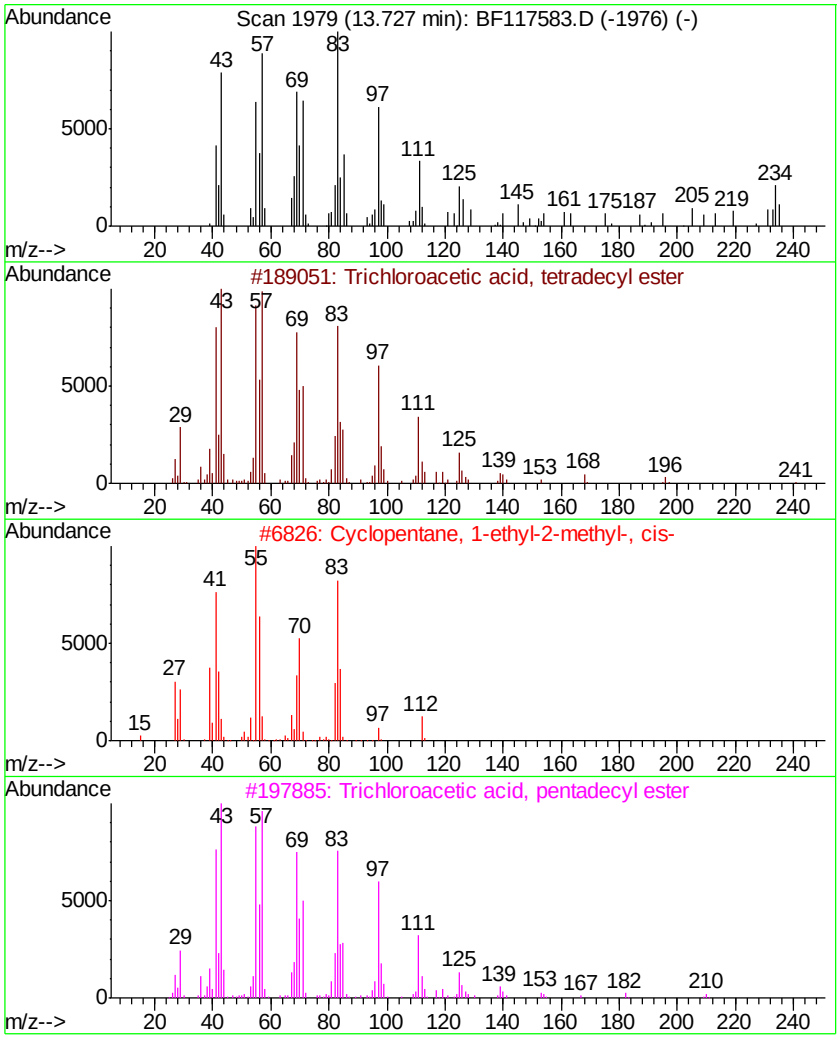
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

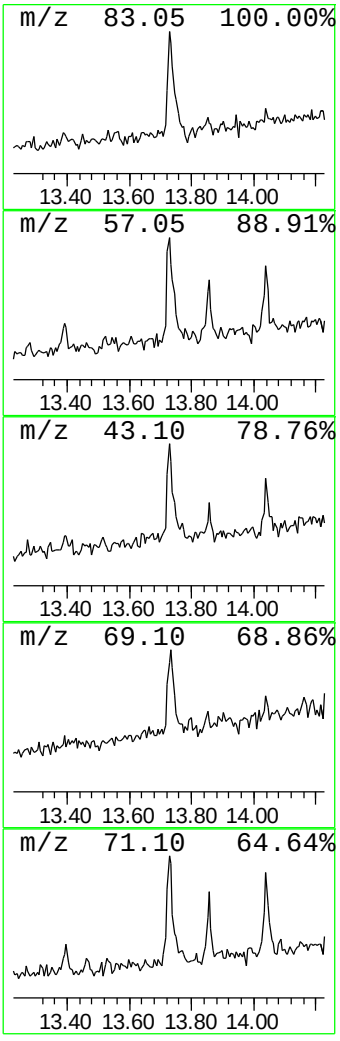
**********

Peak Number 7 Trichloroacetic acid, tetra... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 2.74 ng | 63769 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 64 |
| 2 | Cyclopentane, 1-ethyl-2-methyl-,... | 112 | C8H16 | 000930-89-2 | 60 |
| 3 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 58 |
| 4 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 53 |
| 5 | 1-Octadecene | 252 | C18H36 | 000112-88-9 | 52 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

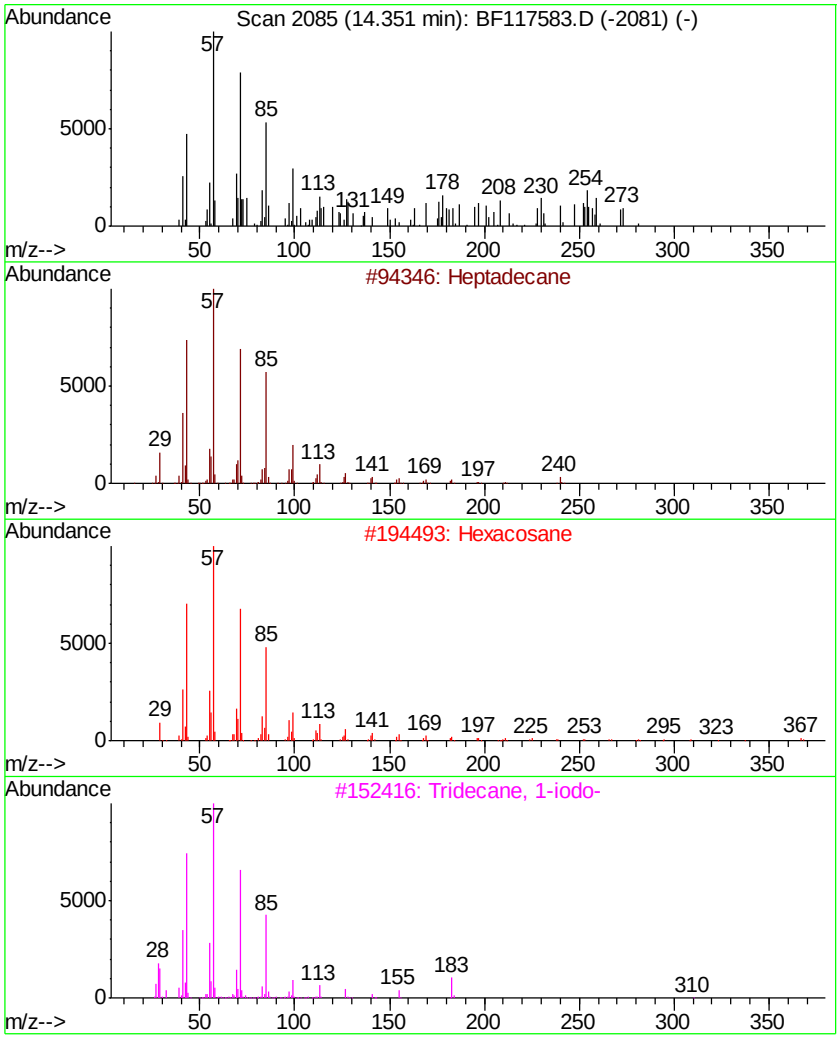
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

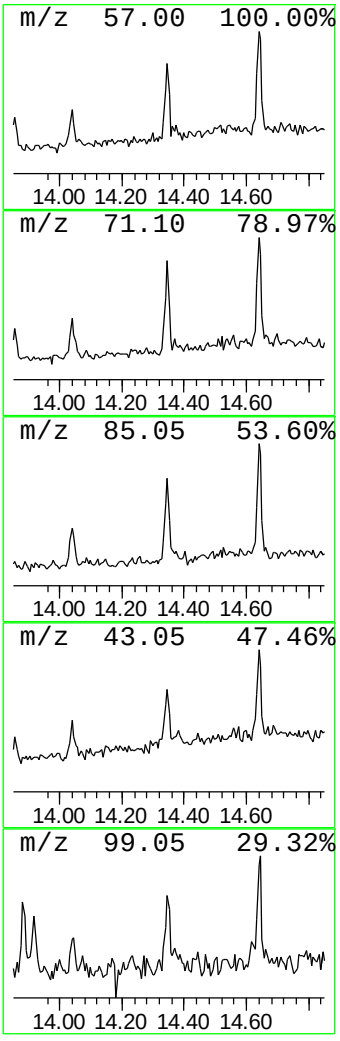
**********

Peak Number 8 Heptadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.35 | 2.04 ng | 47602 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 68 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 64 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 53 |
| 4 | Tridecane, 7-propyl- | 226 | C16H34 | 055045-09-5 | 53 |
| 5 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

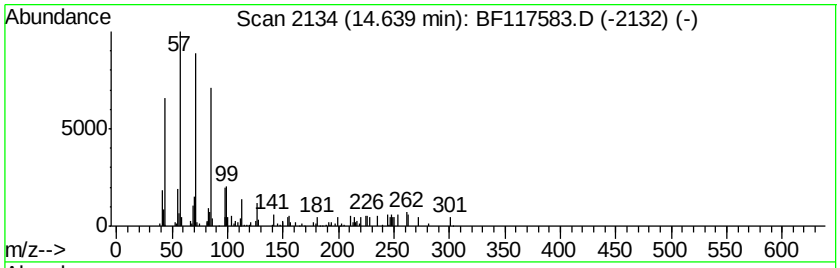
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

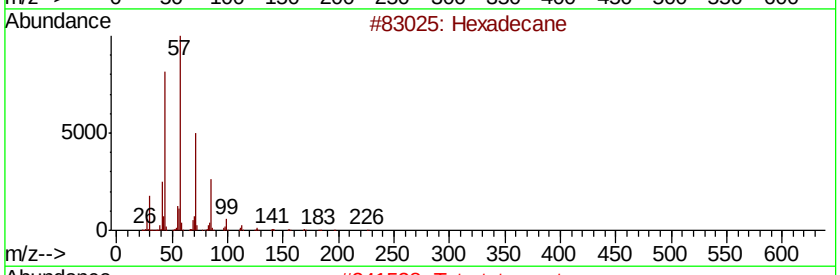
**********

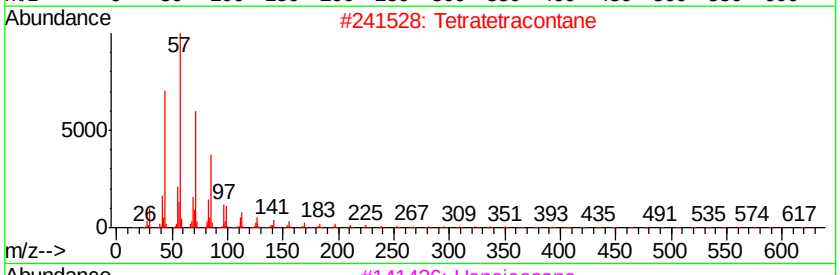
Peak Number 9 Hexadecane Concentration Rank 11

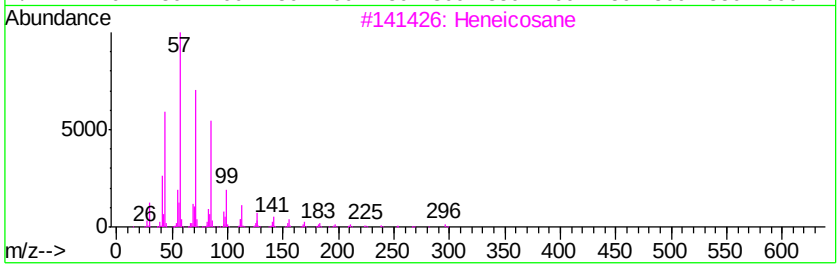
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.64 | 2.23 ng | 43838 | Perylene-d12 | 15.33 |

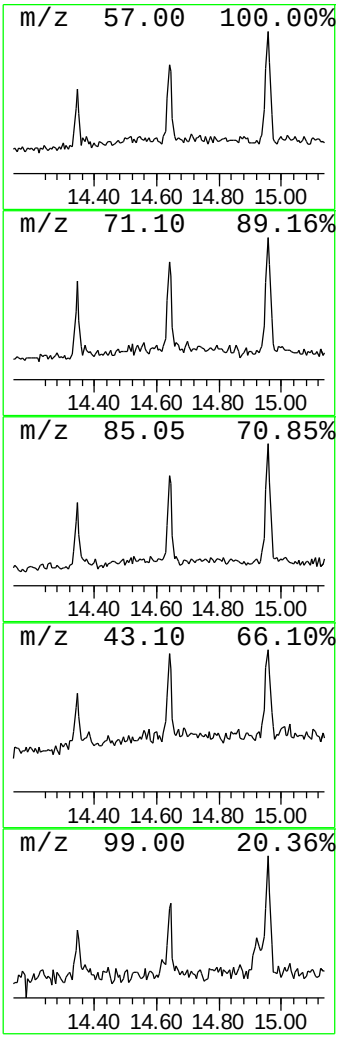
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 76 |
| 2 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 72 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 64 |
| 4 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 59 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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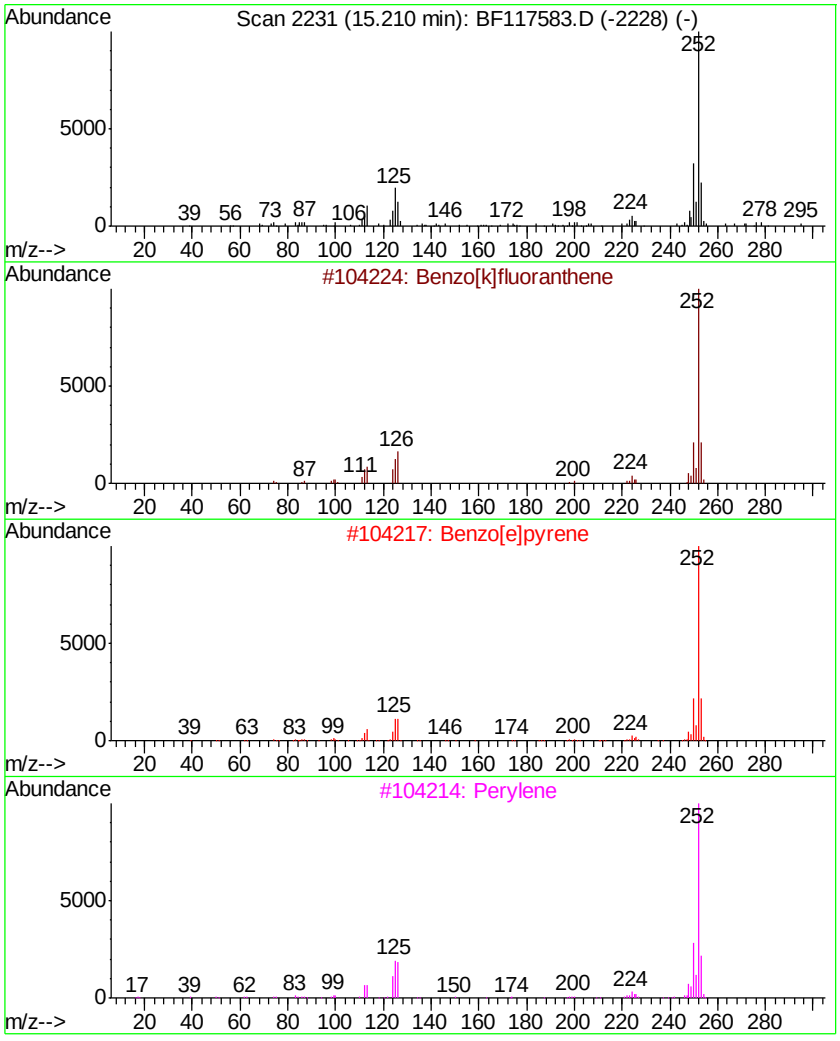
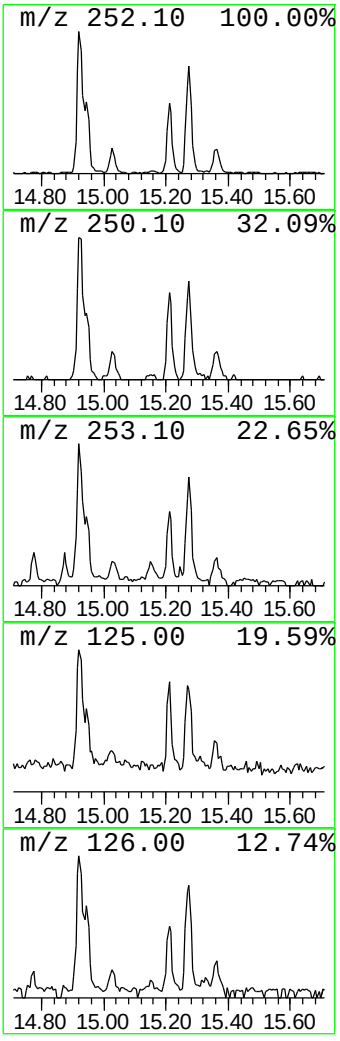
Peak Number 10 Benzo[e]pyrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.21 | 3.17 ng | 62332 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 95 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 89 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

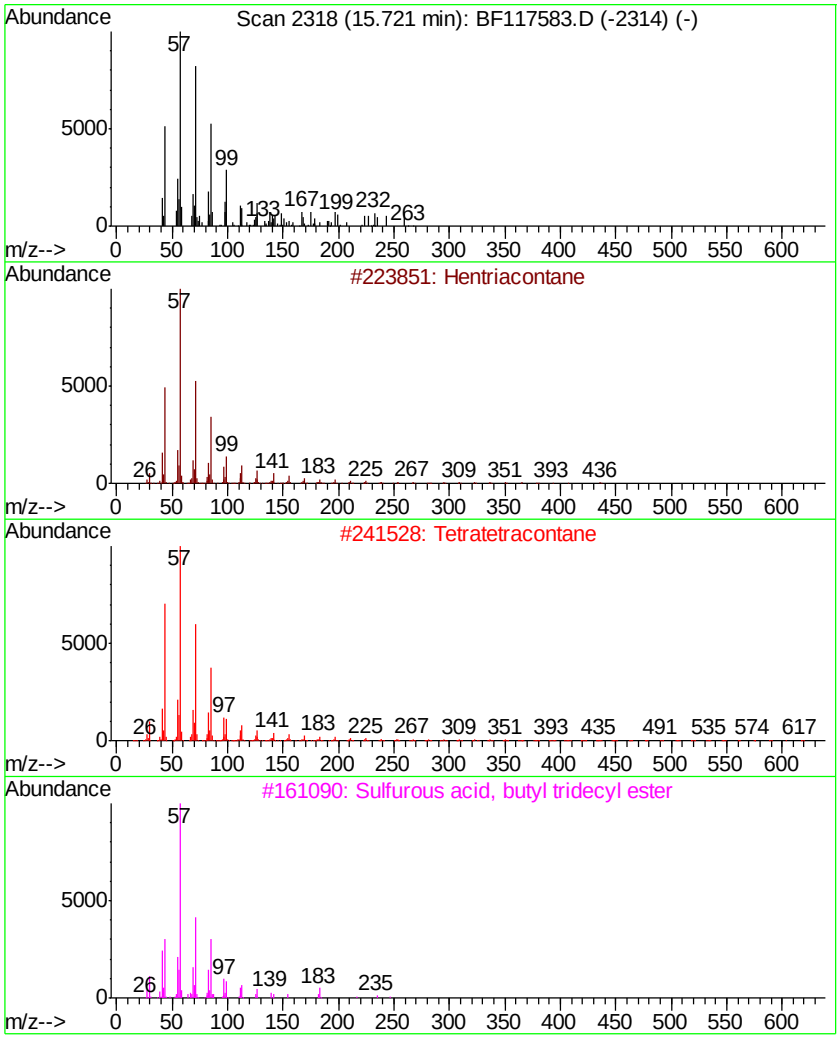
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

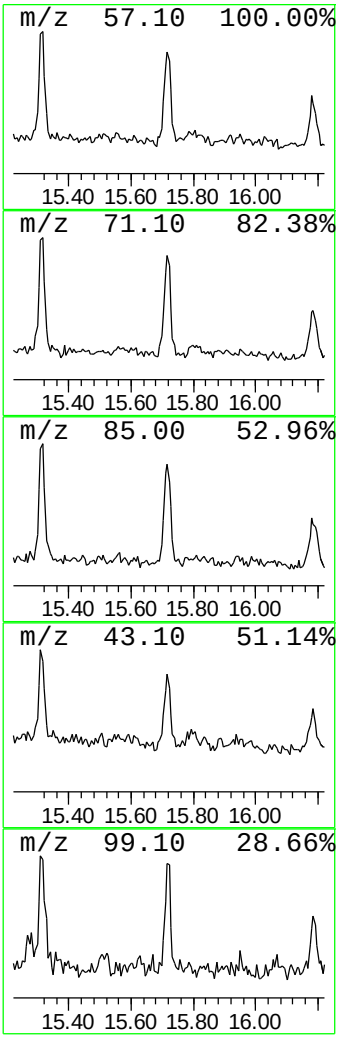
**********

Peak Number 11 Hentriacontane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.72 | 3.11 ng | 61081 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 59 |
| 2 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 59 |
| 3 | Sulfurous acid, butyl tridecyl e... | 320 | C17H36O3S | 1000309-18-0 | 59 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 53 |
| 5 | Oxalic acid, decyl 2-ethylhexyl ... | 342 | C20H38O4 | 1000309-39-3 | 50 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

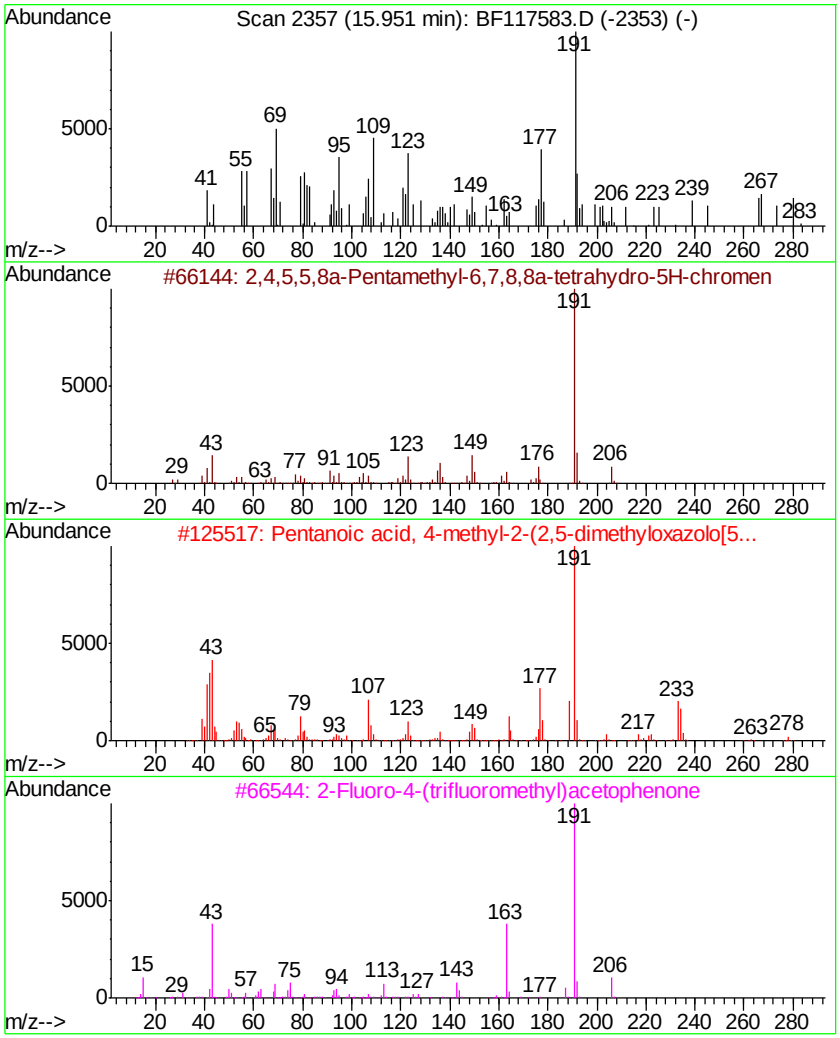
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

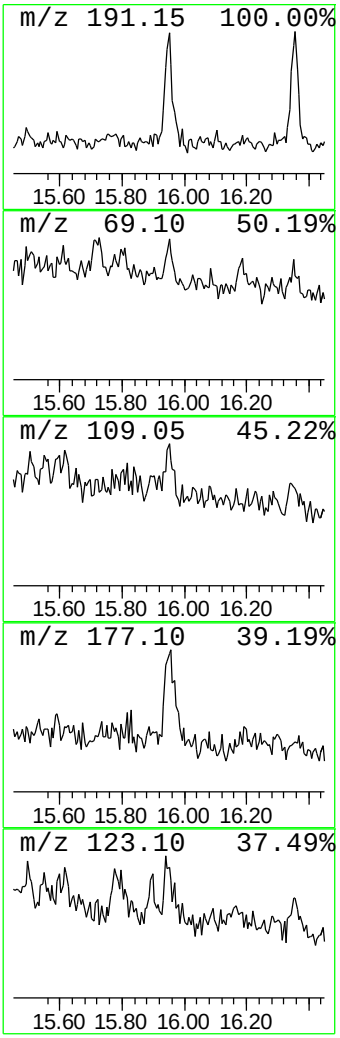
**********

Peak Number 12 unknown15.95 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.95 | 2.62 ng | 51508 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,5,5,8a-Pentamethyl-6,7,8,8a-... | 206 | C14H22O | 1000195-40-9 | 38 |
| 2 | Pentanoic acid, 4-methyl-2-(2,5-... | 278 | C13H18N4O3 | 1000294-63-5 | 37 |
| 3 | 2-Fluoro-4-(trifluoromethyl)acet... | 206 | C9H6F4O | 122023-29-4 | 27 |
| 4 | 3-Buten-2-one, 4-(2,5,6,6-tetram... | 206 | C14H22O | 000079-70-9 | 27 |
| 5 | 2-Fluoro-3-(trifluoromethyl)acet... | 206 | C9H6F4O | 1000342-40-2 | 27 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102919\
Data File : BF117583.D
Acq On : 29 Oct 2019 11:51
Operator : JU
Sample : K5503-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 175-12-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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 | 3.7 | ng | 52828 | 1 | 6.73 | 288221 | 20.0 |
| unknown6.50 | 6.50 | 61.7 | ng | 889008 | 1 | 6.73 | 288221 | 20.0 |
| unknown10.80 | 10.80 | 2.8 | ng | 35078 | 4 | 11.25 | 252023 | 20.0 |
| n-Hexadecanoic acid | 11.77 | 5.4 | ng | 68371 | 4 | 11.25 | 252023 | 20.0 |
| 4H-Cyclopenta[def... | 11.86 | 3.3 | ng | 41136 | 4 | 11.25 | 252023 | 20.0 |
| Trichloroacetic a... | 13.73 | 2.7 | ng | 63769 | 5 | 13.89 | 465986 | 20.0 |
| Heptadecane | 14.35 | 2.0 | ng | 47602 | 5 | 13.89 | 465986 | 20.0 |
| Hexadecane | 14.64 | 2.2 | ng | 43838 | 6 | 15.33 | 392687 | 20.0 |
| Benzo[e]pyrene | 15.21 | 3.2 | ng | 62332 | 6 | 15.33 | 392687 | 20.0 |
| Hentriacontane | 15.72 | 3.1 | ng | 61081 | 6 | 15.33 | 392687 | 20.0 |
| unknown15.95 | 15.95 | 2.6 | ng | 51508 | 6 | 15.33 | 392687 | 20.0 |