LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

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-BF031820.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 | 2.163 | 8 | 13 | 25 | rVB | 320112 | 468153 | 4.91% | 0.478% |
| 2 | 3.340 | 210 | 213 | 224 | rBV | 44923 | 98996 | 1.04% | 0.101% |
| 3 | 5.087 | 505 | 510 | 517 | rVB | 127279 | 169486 | 1.78% | 0.173% |
| 4 | 5.469 | 569 | 575 | 578 | rBV | 8642464 | 9164872 | 96.11% | 9.350% |
| 5 | 6.475 | 740 | 746 | 749 | rBV | 7661917 | 9344821 | 97.99% | 9.534% |
| 6 | 6.675 | 777 | 780 | 783 | rBV | 273272 | 201392 | 2.11% | 0.205% |
| 7 | 6.857 | 807 | 811 | 814 | rBV | 2363164 | 2177792 | 22.84% | 2.222% |
| 8 | 7.010 | 833 | 837 | 841 | rBV | 7144655 | 6969988 | 73.09% | 7.111% |
| 9 | 7.416 | 900 | 906 | 909 | rBV | 5653191 | 5935615 | 62.24% | 6.056% |
| 10 | 8.139 | 1024 | 1029 | 1032 | rBV | 3383546 | 2891588 | 30.32% | 2.950% |
| 11 | 9.222 | 1207 | 1213 | 1216 | rBV | 10260515 | 9536067 | 100.00% | 9.729% |
| 12 | 9.610 | 1275 | 1279 | 1282 | rVB | 1955150 | 1478720 | 15.51% | 1.509% |
| 13 | 9.757 | 1301 | 1304 | 1307 | rBV | 142574 | 107196 | 1.12% | 0.109% |
| 14 | 9.898 | 1322 | 1328 | 1331 | rBV | 3702640 | 3091647 | 32.42% | 3.154% |
| 15 | 9.927 | 1331 | 1333 | 1337 | rVB | 203031 | 156365 | 1.64% | 0.160% |
| 16 | 10.098 | 1358 | 1362 | 1365 | rBV | 157470 | 141304 | 1.48% | 0.144% |
| 17 | 10.192 | 1374 | 1378 | 1385 | rBV | 169160 | 250082 | 2.62% | 0.255% |
| 18 | 10.445 | 1417 | 1421 | 1426 | rVB2 | 245060 | 213051 | 2.23% | 0.217% |
| 19 | 10.686 | 1456 | 1462 | 1465 | rBV | 6317135 | 6109061 | 64.06% | 6.233% |
| 20 | 11.280 | 1561 | 1563 | 1569 | rVB | 141530 | 116738 | 1.22% | 0.119% |
| 21 | 11.386 | 1577 | 1581 | 1583 | rBV | 3547808 | 3106421 | 32.58% | 3.169% |
| 22 | 11.410 | 1583 | 1585 | 1588 | rVV | 2219714 | 1631557 | 17.11% | 1.665% |
| 23 | 11.457 | 1588 | 1593 | 1596 | rVB | 603642 | 517473 | 5.43% | 0.528% |
| 24 | 11.610 | 1613 | 1619 | 1622 | rBV | 172303 | 169060 | 1.77% | 0.172% |
| 25 | 11.886 | 1663 | 1666 | 1668 | rBV | 206181 | 173552 | 1.82% | 0.177% |
| 26 | 11.916 | 1668 | 1671 | 1675 | rVV | 1108129 | 959742 | 10.06% | 0.979% |
| 27 | 11.963 | 1675 | 1679 | 1681 | rVV2 | 155465 | 179059 | 1.88% | 0.183% |
| 28 | 11.998 | 1681 | 1685 | 1687 | rVV | 430888 | 431476 | 4.52% | 0.440% |
| 29 | 12.021 | 1687 | 1689 | 1692 | rVB | 139331 | 114208 | 1.20% | 0.117% |
| 30 | 12.180 | 1713 | 1716 | 1718 | rBV | 164271 | 149276 | 1.57% | 0.152% |
| 31 | 12.439 | 1756 | 1760 | 1763 | rBV | 112293 | 124597 | 1.31% | 0.127% |
| 32 | 12.480 | 1763 | 1767 | 1772 | rVB3 | 98144 | 134585 | 1.41% | 0.137% |
| 33 | 12.598 | 1783 | 1787 | 1791 | rBV | 2721950 | 2384567 | 25.01% | 2.433% |
| 34 | 12.704 | 1800 | 1805 | 1811 | rBV3 | 432936 | 560573 | 5.88% | 0.572% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

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-BF031820.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.827 | 1820 | 1826 | 1829 | rBV | 2529803 | 2482744 | 26.04% | 2.533% |
| 36 | 12.874 | 1832 | 1834 | 1839 | rVB3 | 126771 | 146894 | 1.54% | 0.150% |
| 37 | 12.945 | 1843 | 1846 | 1847 | rBV | 146101 | 113759 | 1.19% | 0.116% |
| 38 | 12.980 | 1847 | 1852 | 1855 | rVV | 7539643 | 7968092 | 83.56% | 8.129% |
| 39 | 13.045 | 1858 | 1863 | 1866 | rBV4 | 146906 | 245025 | 2.57% | 0.250% |
| 40 | 13.133 | 1875 | 1878 | 1879 | rBV2 | 103518 | 115516 | 1.21% | 0.118% |
| 41 | 13.157 | 1879 | 1882 | 1884 | rVB2 | 317665 | 295363 | 3.10% | 0.301% |
| 42 | 13.221 | 1889 | 1893 | 1896 | rBV | 309107 | 263413 | 2.76% | 0.269% |
| 43 | 13.257 | 1896 | 1899 | 1902 | rBV2 | 222674 | 222373 | 2.33% | 0.227% |
| 44 | 13.380 | 1918 | 1920 | 1924 | rBV2 | 136294 | 126858 | 1.33% | 0.129% |
| 45 | 13.557 | 1943 | 1950 | 1952 | rBV3 | 160516 | 210527 | 2.21% | 0.215% |
| 46 | 13.657 | 1965 | 1967 | 1973 | rVB2 | 73486 | 109346 | 1.15% | 0.112% |
| 47 | 13.774 | 1982 | 1987 | 1989 | rBV2 | 130487 | 162498 | 1.70% | 0.166% |
| 48 | 13.804 | 1989 | 1992 | 1994 | rVV | 172947 | 170943 | 1.79% | 0.174% |
| 49 | 13.827 | 1994 | 1996 | 2000 | rVV2 | 144053 | 196097 | 2.06% | 0.200% |
| 50 | 13.874 | 2000 | 2004 | 2010 | rVB2 | 931864 | 1018115 | 10.68% | 1.039% |
| 51 | 14.027 | 2025 | 2030 | 2032 | rBV2 | 2341600 | 2974421 | 31.19% | 3.035% |
| 52 | 14.051 | 2032 | 2034 | 2039 | rVB | 956325 | 797047 | 8.36% | 0.813% |
| 53 | 14.127 | 2045 | 2047 | 2051 | rVB | 171886 | 150090 | 1.57% | 0.153% |
| 54 | 14.204 | 2056 | 2060 | 2063 | rVB2 | 381450 | 380176 | 3.99% | 0.388% |
| 55 | 14.245 | 2063 | 2067 | 2071 | rBV2 | 81422 | 105648 | 1.11% | 0.108% |
| 56 | 14.409 | 2092 | 2095 | 2098 | rVB | 164267 | 147258 | 1.54% | 0.150% |
| 57 | 14.509 | 2108 | 2112 | 2114 | rBV2 | 626627 | 627830 | 6.58% | 0.641% |
| 58 | 14.557 | 2118 | 2120 | 2124 | rVB3 | 106847 | 103431 | 1.08% | 0.106% |
| 59 | 14.815 | 2158 | 2164 | 2171 | rVB | 663891 | 746006 | 7.82% | 0.761% |
| 60 | 15.068 | 2202 | 2207 | 2210 | rBV | 670299 | 1143826 | 11.99% | 1.167% |
| 61 | 15.162 | 2218 | 2223 | 2230 | rVB2 | 665725 | 876114 | 9.19% | 0.894% |
| 62 | 15.368 | 2254 | 2258 | 2264 | rVB | 462816 | 566310 | 5.94% | 0.578% |
| 63 | 15.427 | 2264 | 2268 | 2274 | rVB | 680900 | 855277 | 8.97% | 0.873% |
| 64 | 15.498 | 2274 | 2280 | 2283 | rBV | 1410359 | 1853120 | 19.43% | 1.891% |
| 65 | 15.551 | 2286 | 2289 | 2297 | rVB | 512624 | 642322 | 6.74% | 0.655% |
| 66 | 15.992 | 2358 | 2364 | 2368 | rBV | 333850 | 533758 | 5.60% | 0.545% |
| 67 | 16.039 | 2368 | 2372 | 2380 | rVB8 | 104871 | 232866 | 2.44% | 0.238% |
| 68 | 16.509 | 2446 | 2452 | 2459 | rBV | 159681 | 301910 | 3.17% | 0.308% |
| 69 | 16.786 | 2495 | 2499 | 2505 | rVB4 | 57429 | 127282 | 1.33% | 0.130% |
| 70 | 16.956 | 2522 | 2528 | 2536 | rVB2 | 332215 | 667697 | 7.00% | 0.681% |
| 71 | 17.133 | 2551 | 2558 | 2563 | rBV3 | 63783 | 167534 | 1.76% | 0.171% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

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-BF031820.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.198 | 2564 | 2569 | 2584 | rVB6 | 79250 | 231100 | 2.42% | 0.236% |
| 73 | 17.398 | 2596 | 2603 | 2609 | rBV | 269229 | 532040 | 5.58% | 0.543% |
| 74 | 17.633 | 2638 | 2643 | 2649 | rVB | 78203 | 149633 | 1.57% | 0.153% |

Sum of corrected areas: 98019339

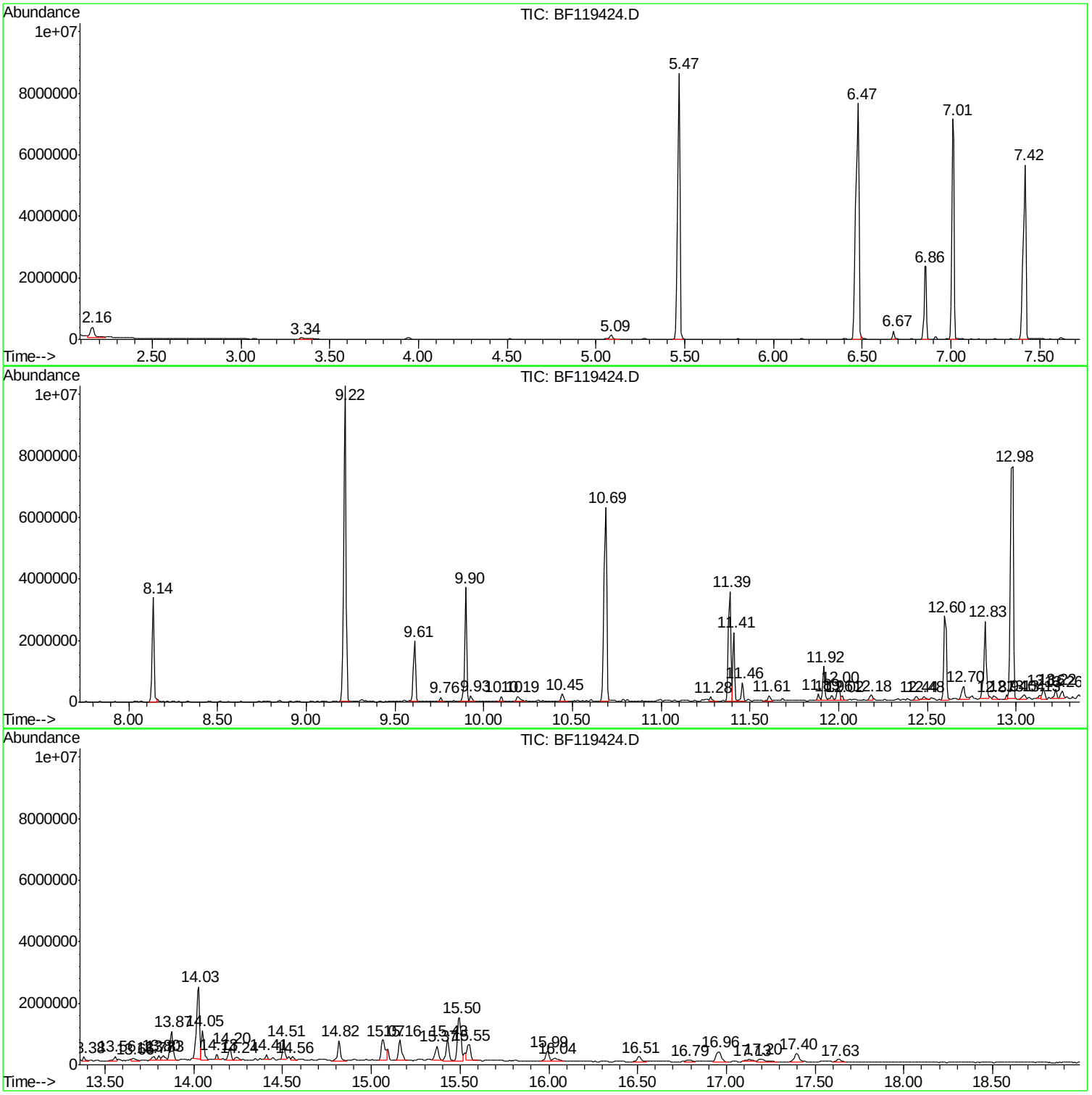
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

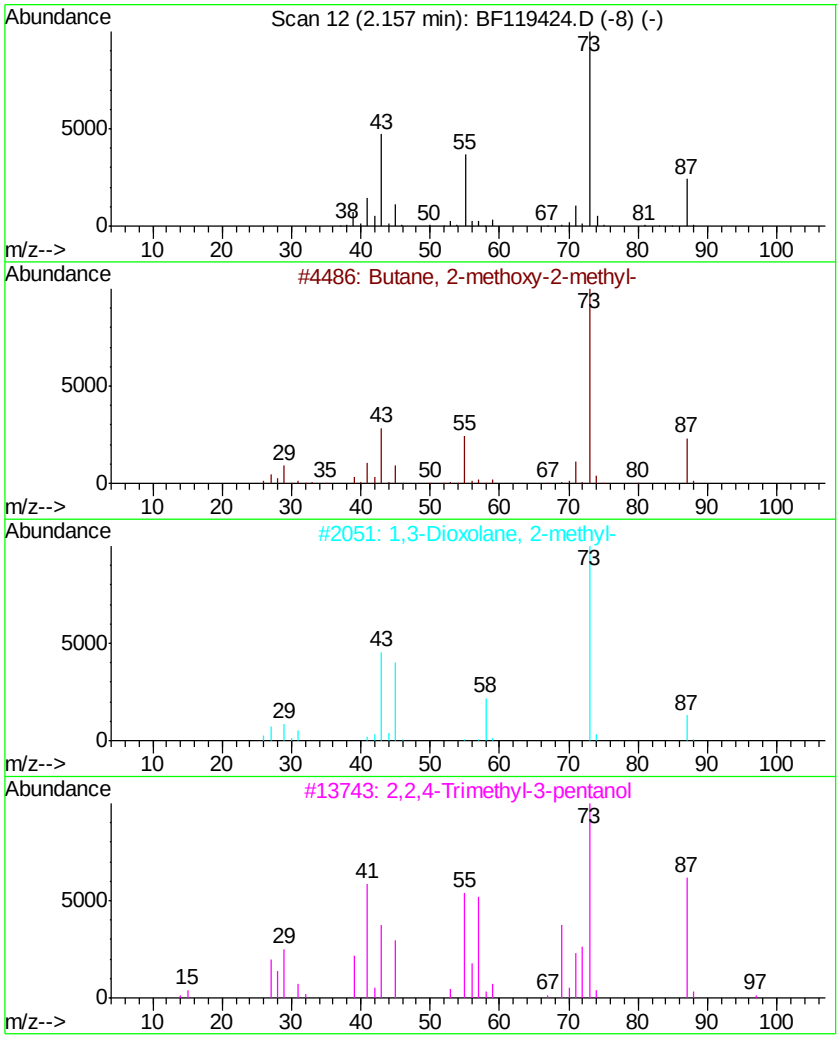
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

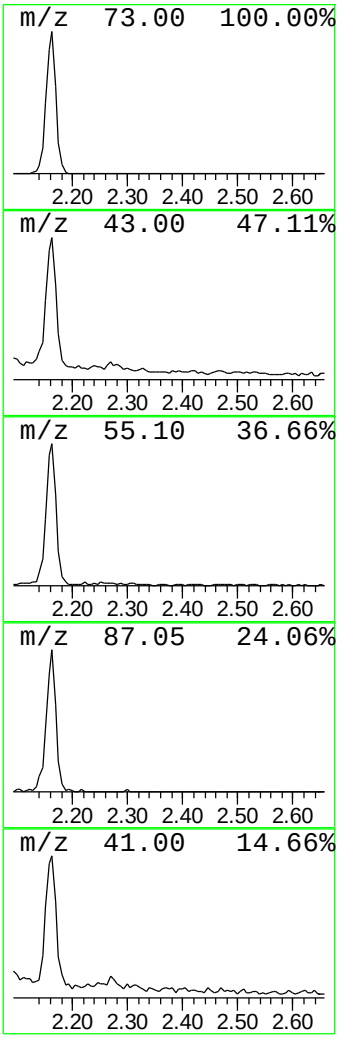
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.16 | 4.30 ng | 468153 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 47 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 38 |
| 5 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 25 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

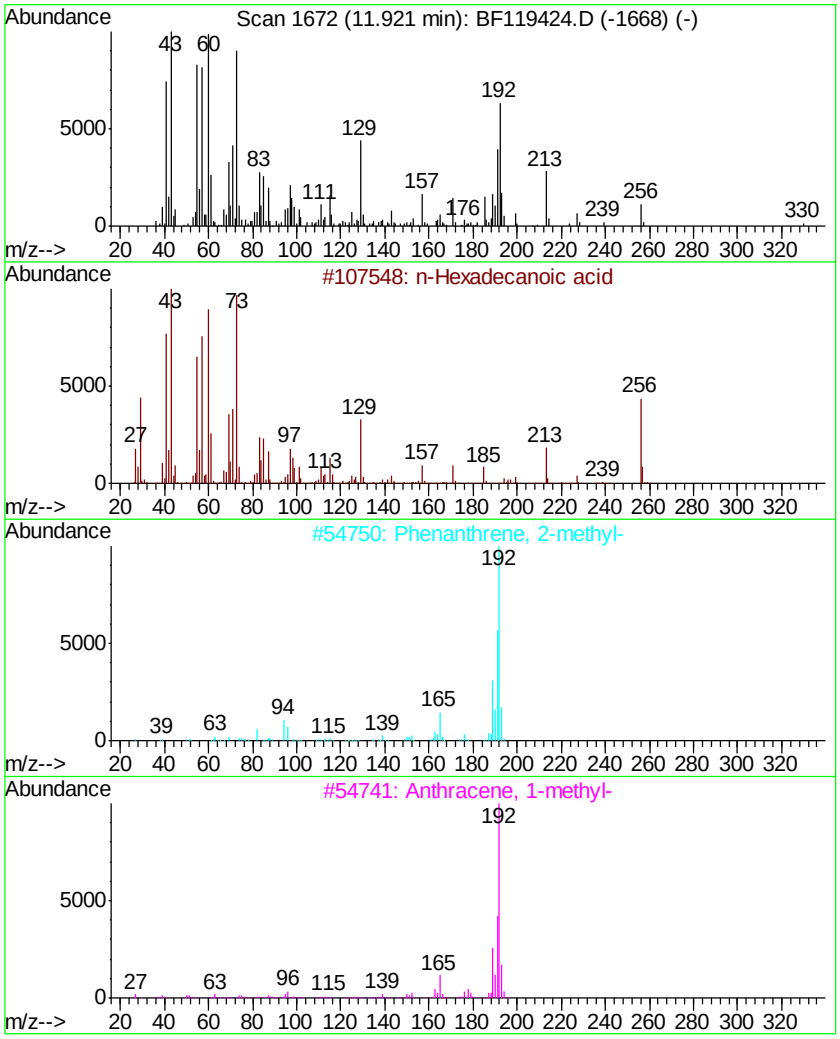
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

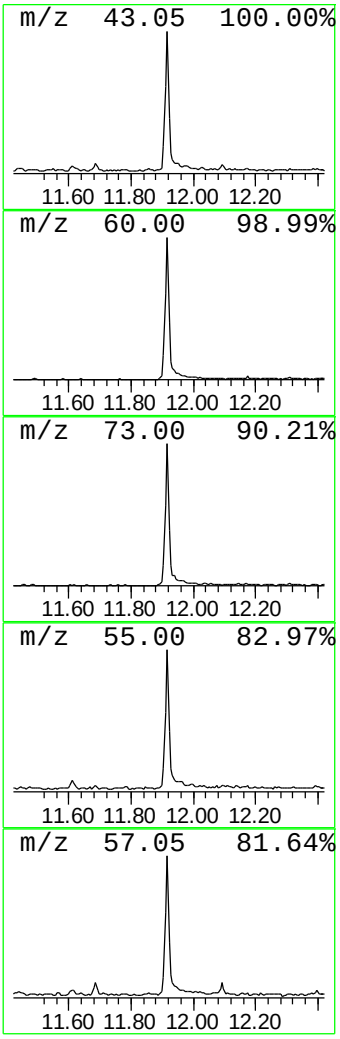
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 6.18 ng | 959742 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

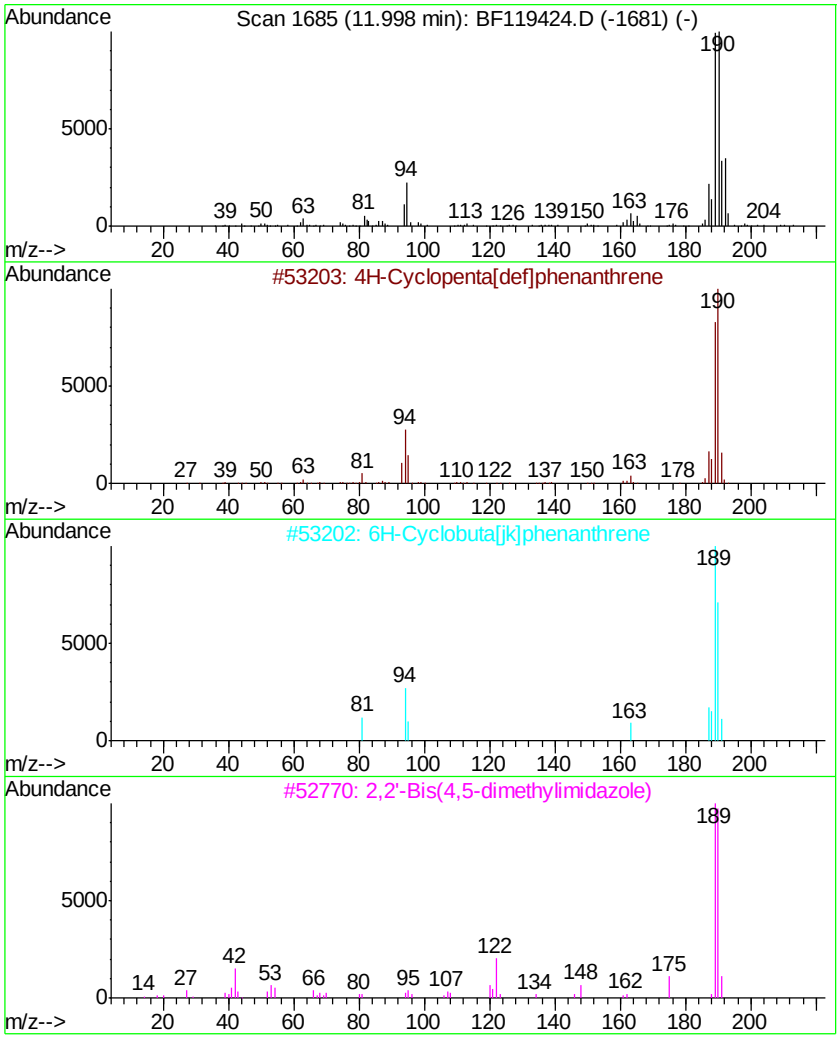
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

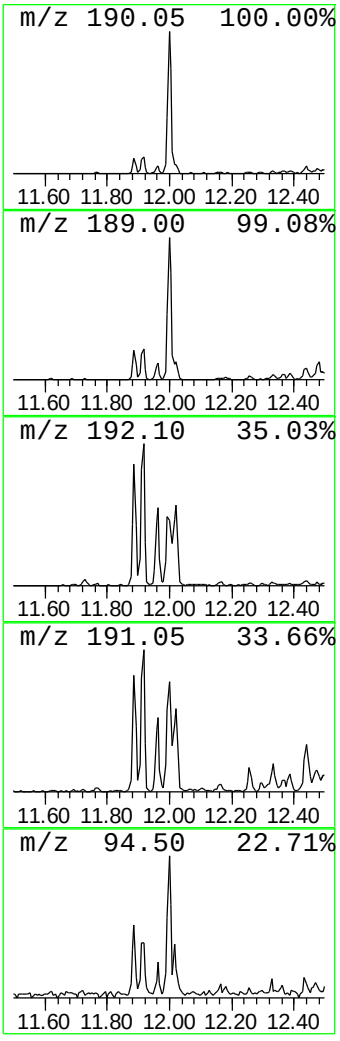
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 2.78 ng | 431476 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 56 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 40 |
| 4 | Megastigmatrienone | 190 | C13H18O | 038818-55-2 | 25 |
| 5 | 2-Naphthaldehyde, 1,2,3,4-tetrah... | 190 | C12H14O2 | 002472-02-8 | 18 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

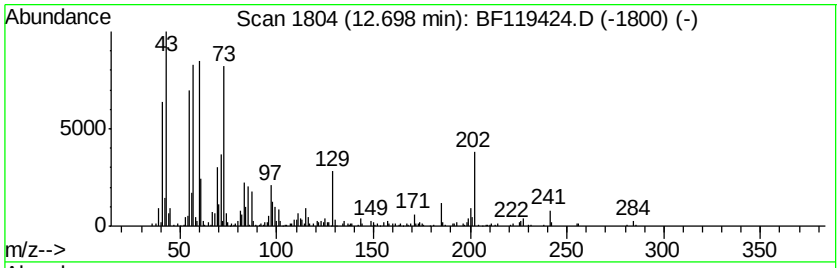
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

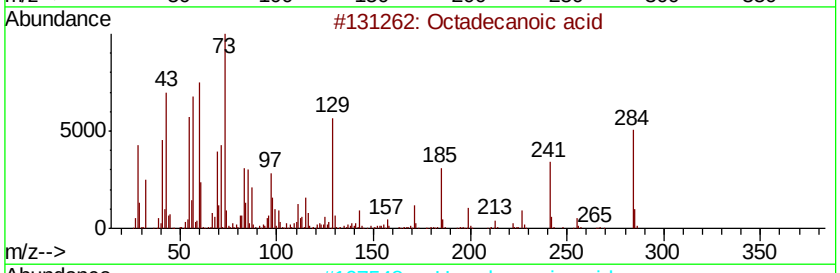
**********

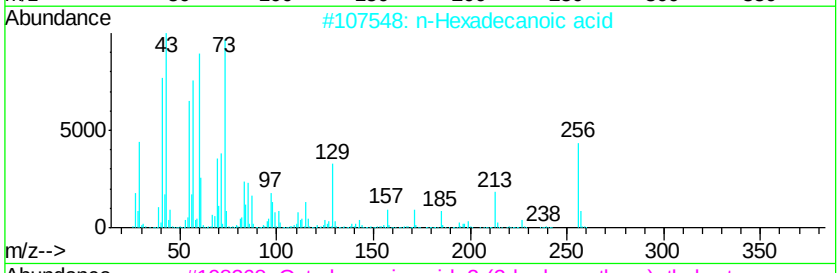
Peak Number 5 Octadecanoic acid Concentration Rank 11

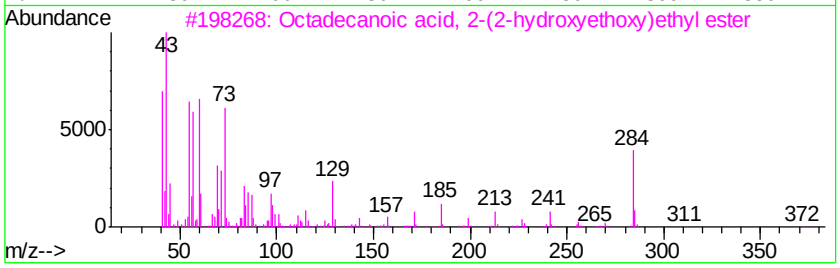
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.70 | 3.61 ng | 560573 | Phenanthrene-d10 | 11.39 |

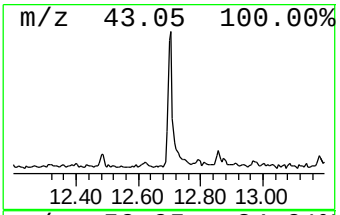
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 98 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 93 |
| 3 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 87 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 81 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 81 |

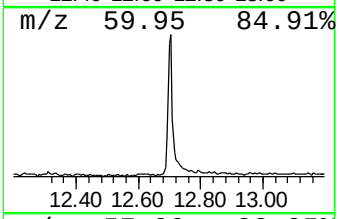


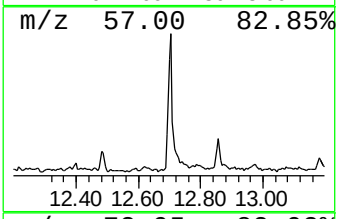



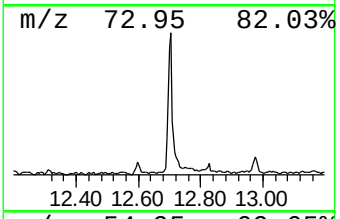



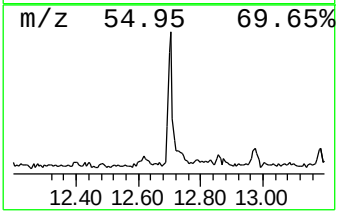



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

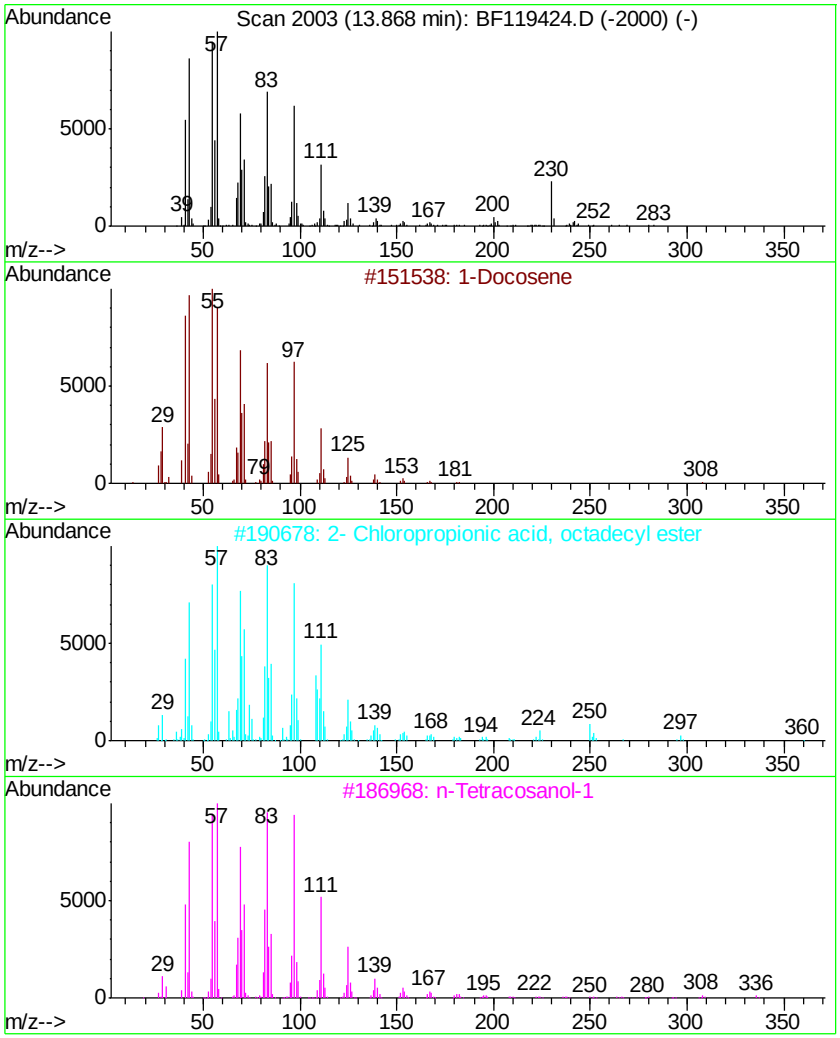
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

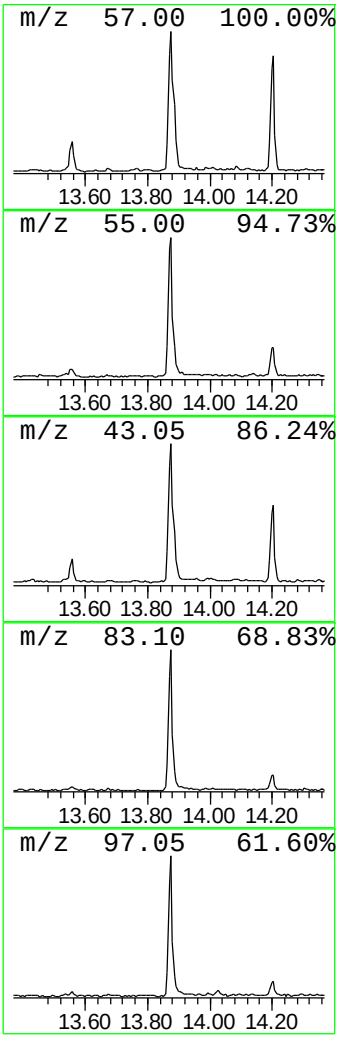
**********

Peak Number 6 1-Docosene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.87 | 6.85 ng | 1018120 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 94 |
| 2 | 2- Chloropropionic acid, octadec... | 360 | C21H41ClO2 | 088104-31-8 | 91 |
| 3 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 91 |
| 4 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 91 |
| 5 | 1-Octadecanol | 270 | C18H38O | 000112-92-5 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

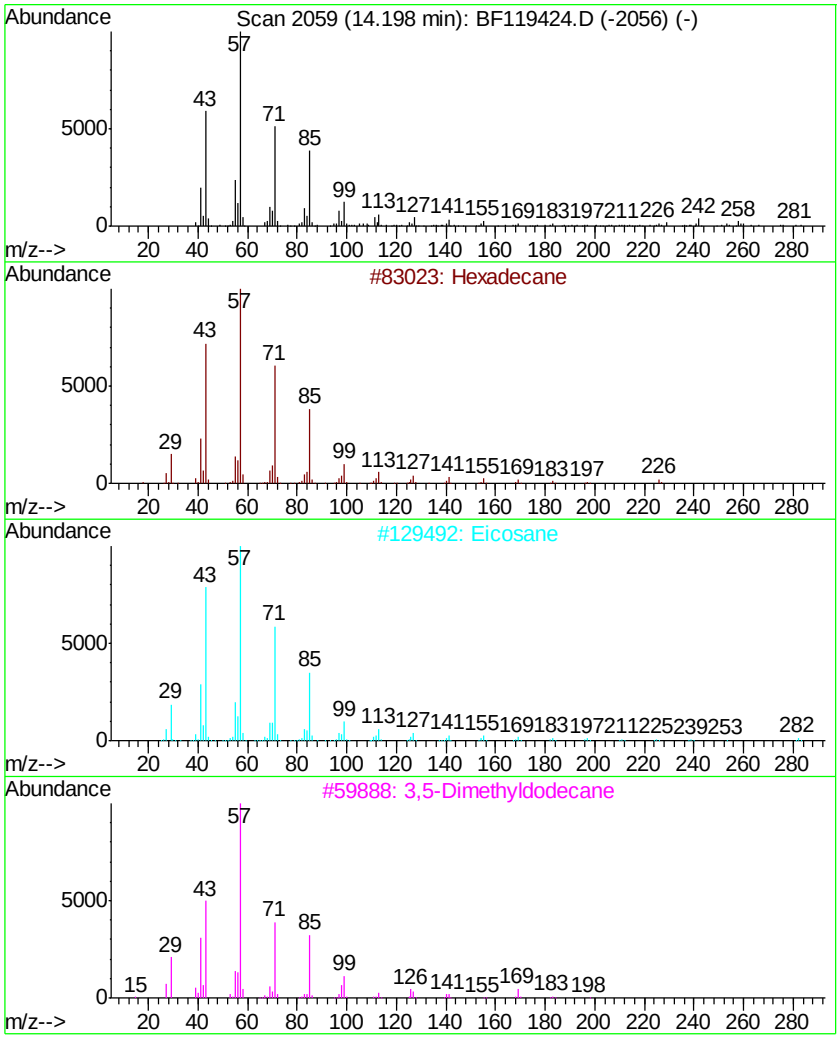
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

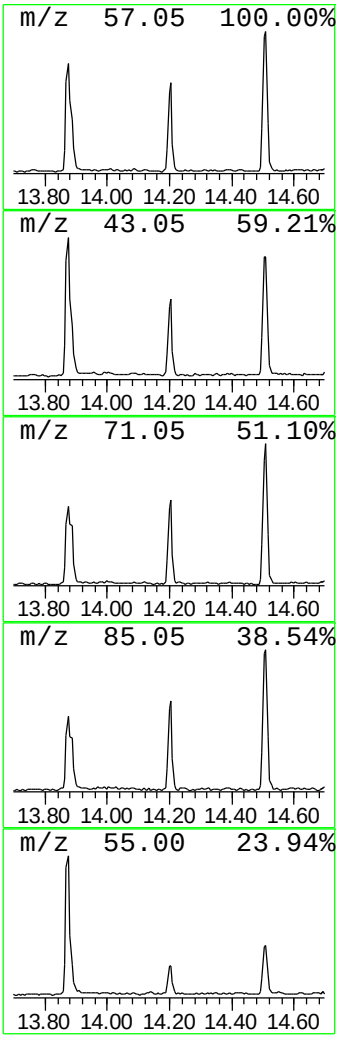
**********

Peak Number 7 Hexadecane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.20 | 2.56 ng | 380176 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 97 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 76 |
| 3 | 3,5-Dimethyldodecane | 198 | C14H30 | 107770-99-0 | 68 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 64 |
| 5 | Undecane, 3,8-dimethyl- | 184 | C13H28 | 017301-30-3 | 64 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

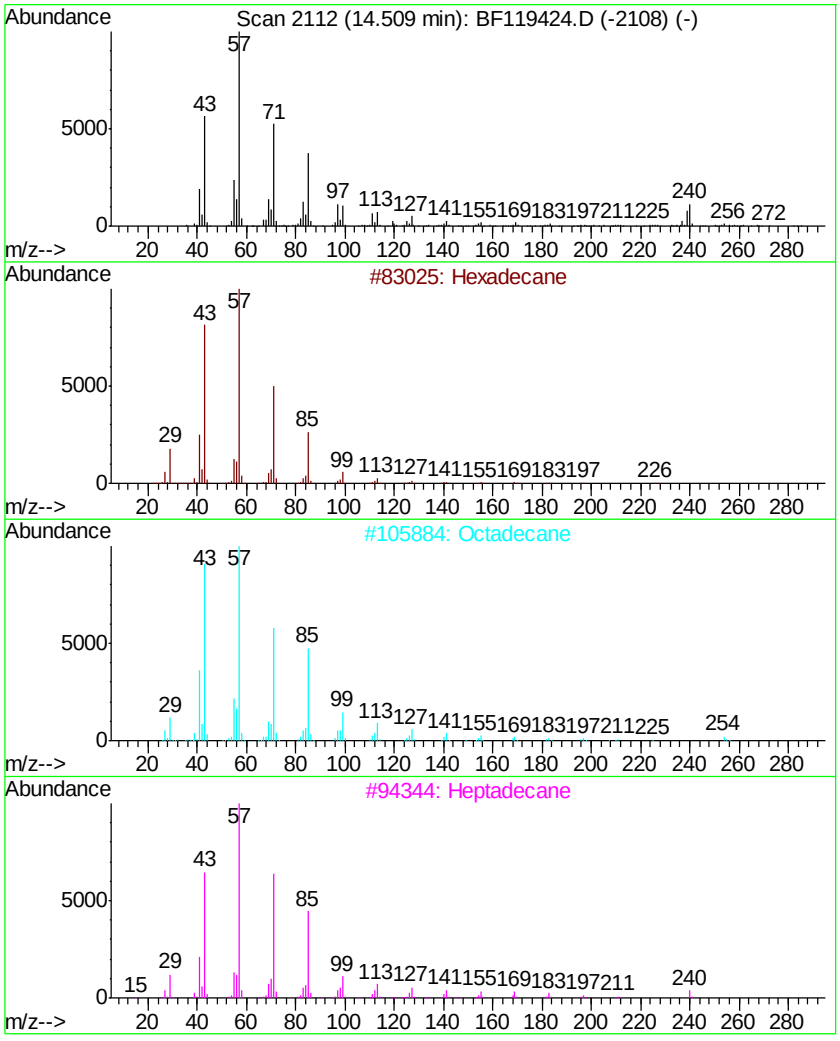
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

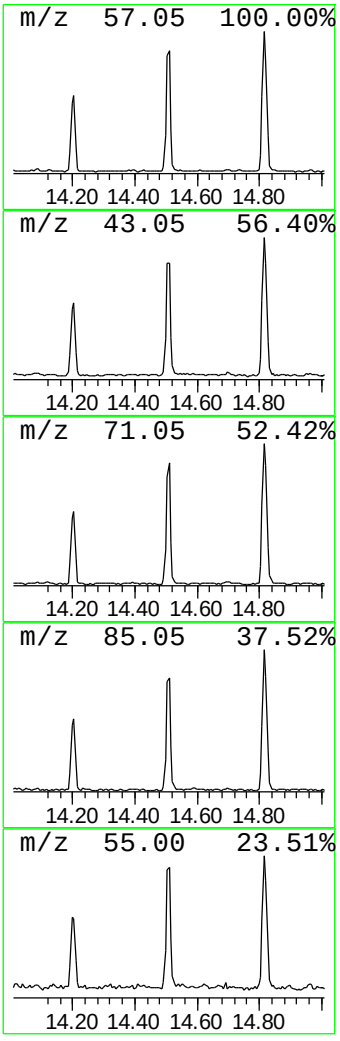
**********

Peak Number 8 Octadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.51 | 4.22 ng | 627830 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 93 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 87 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 81 |
| 5 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

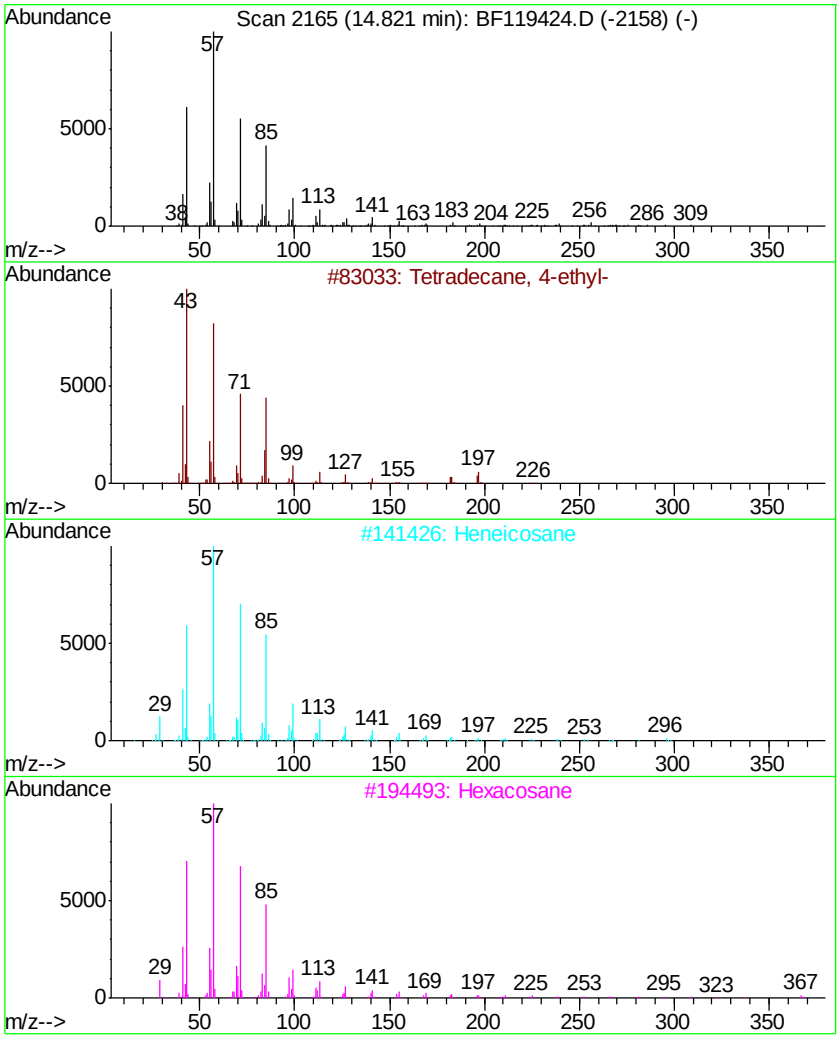
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

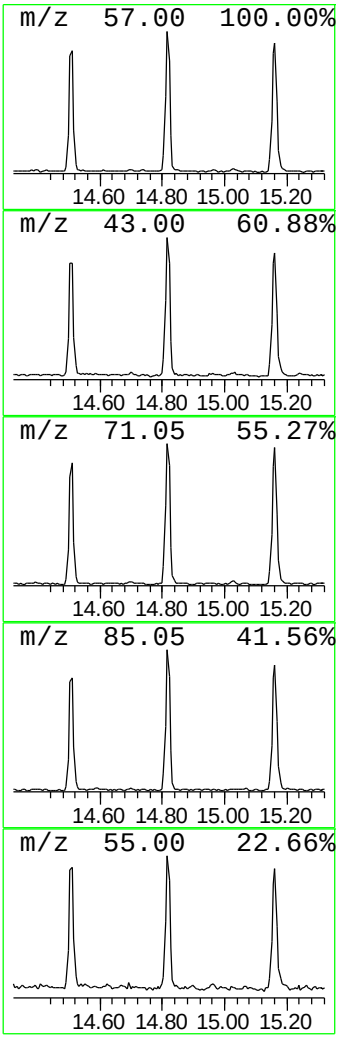
**********

Peak Number 9 Tetradecane, 4-ethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.82 | 8.05 ng | 746006 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 4-ethyl- | 226 | C16H34 | 055045-14-2 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

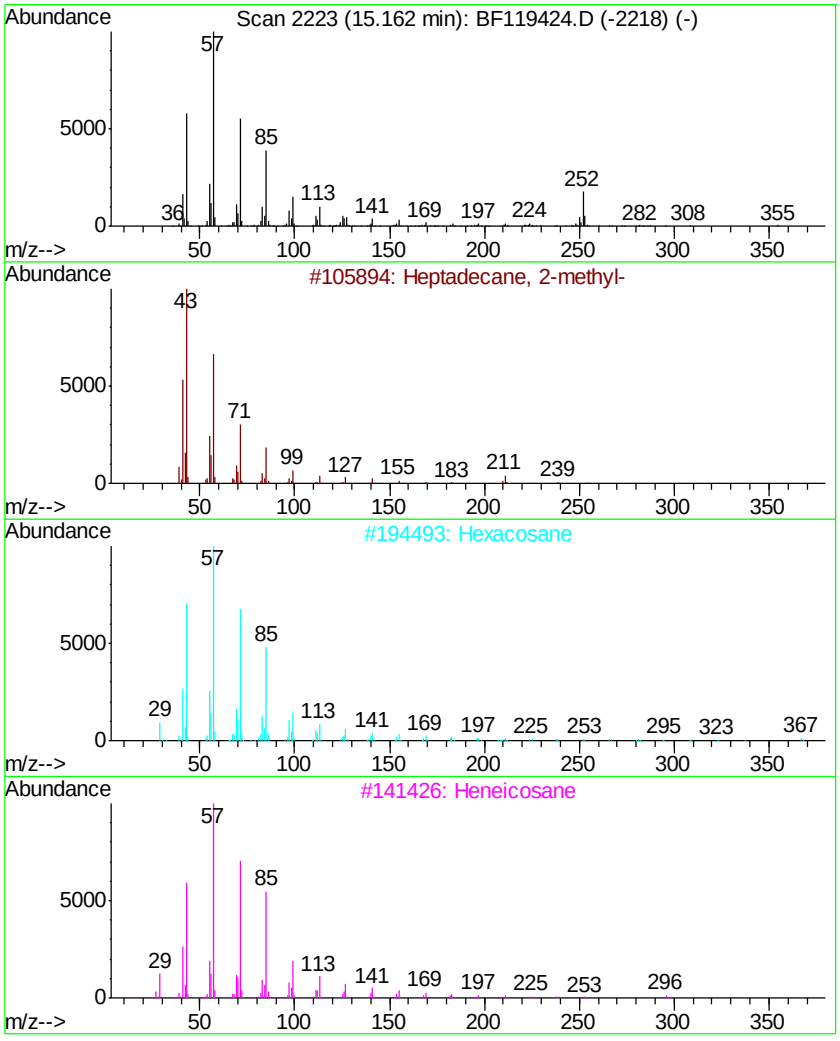
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

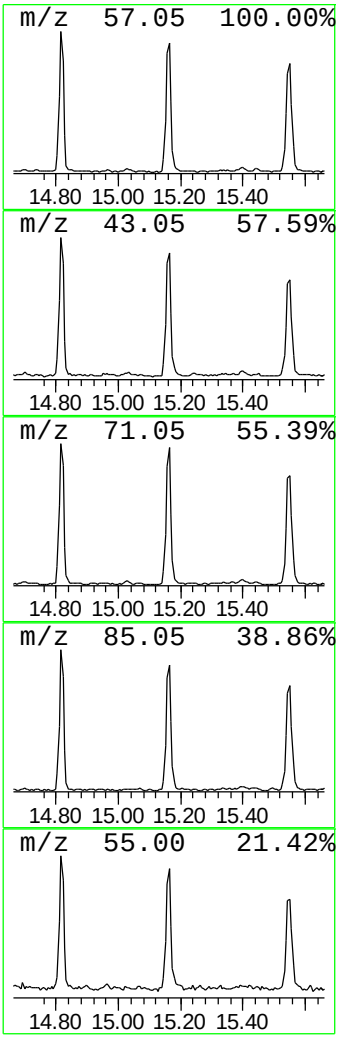
**********

Peak Number 10 Heptadecane, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.16 | 9.46 ng | 876114 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 2-methyl- | 254 | C18H38 | 001560-89-0 | 81 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 81 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 76 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 76 |
| 5 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 76 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

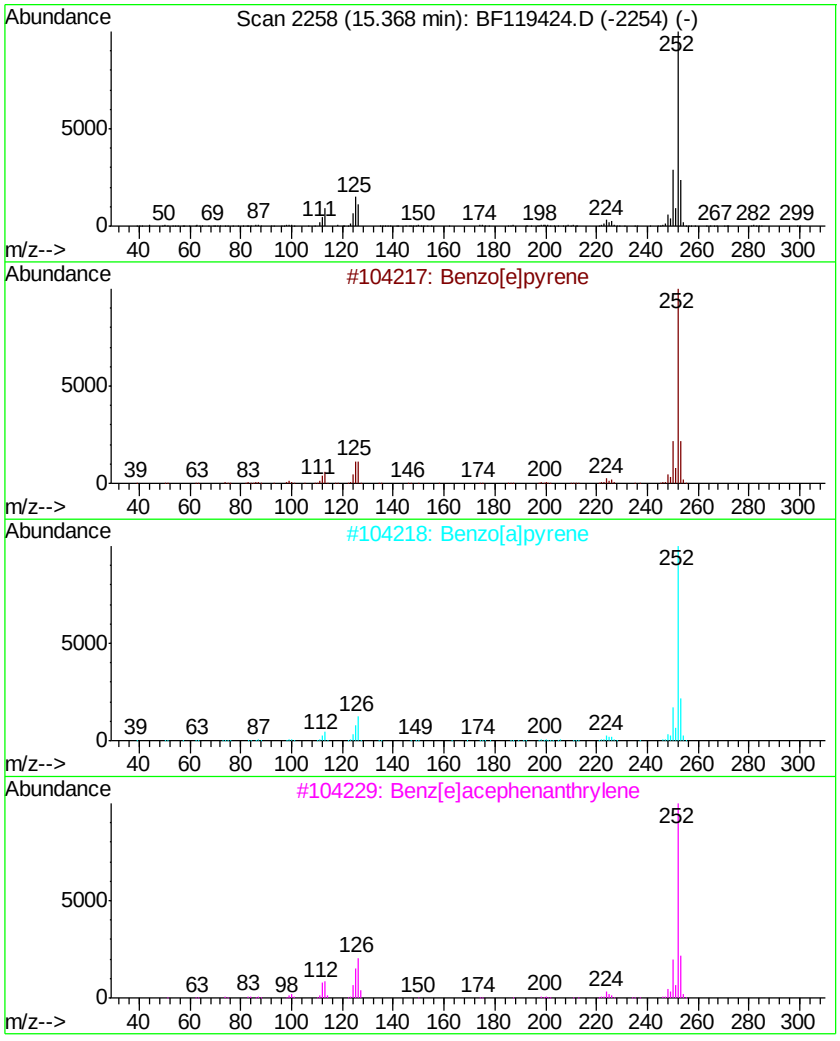
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

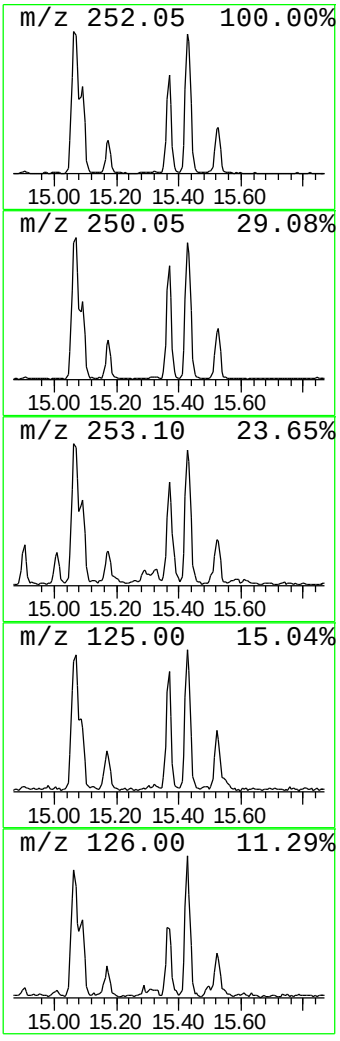
**********

Peak Number 11 Benzo[e]pyrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.37 | 6.11 ng | 566310 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 97 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 95 |
| 4 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 94 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

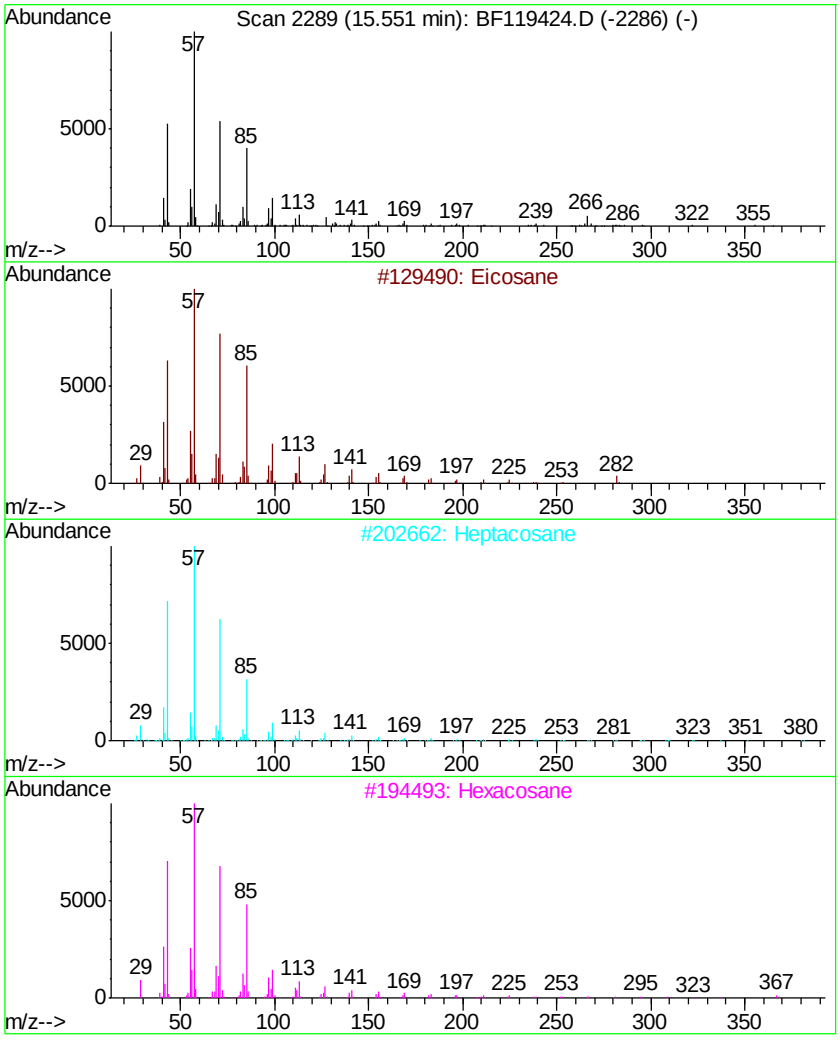
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

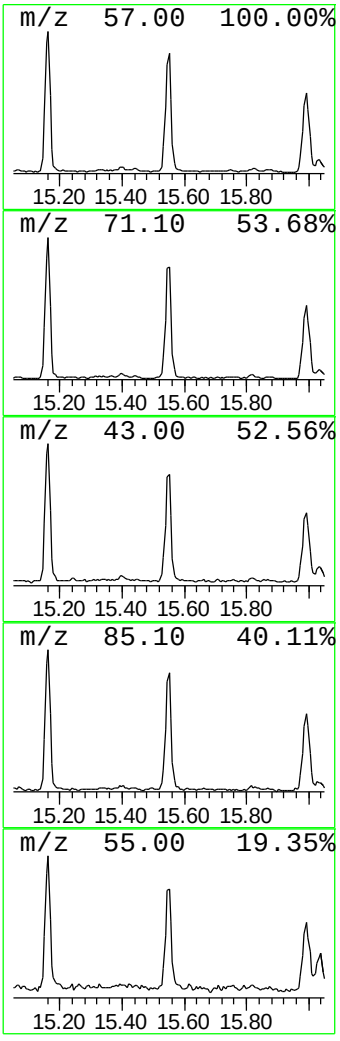
**********

Peak Number 12 Eicosane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.55 | 6.93 ng | 642322 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 87 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 86 |
| 4 | 1-Iodoundecane | 282 | C11H23I | 004282-44-4 | 81 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

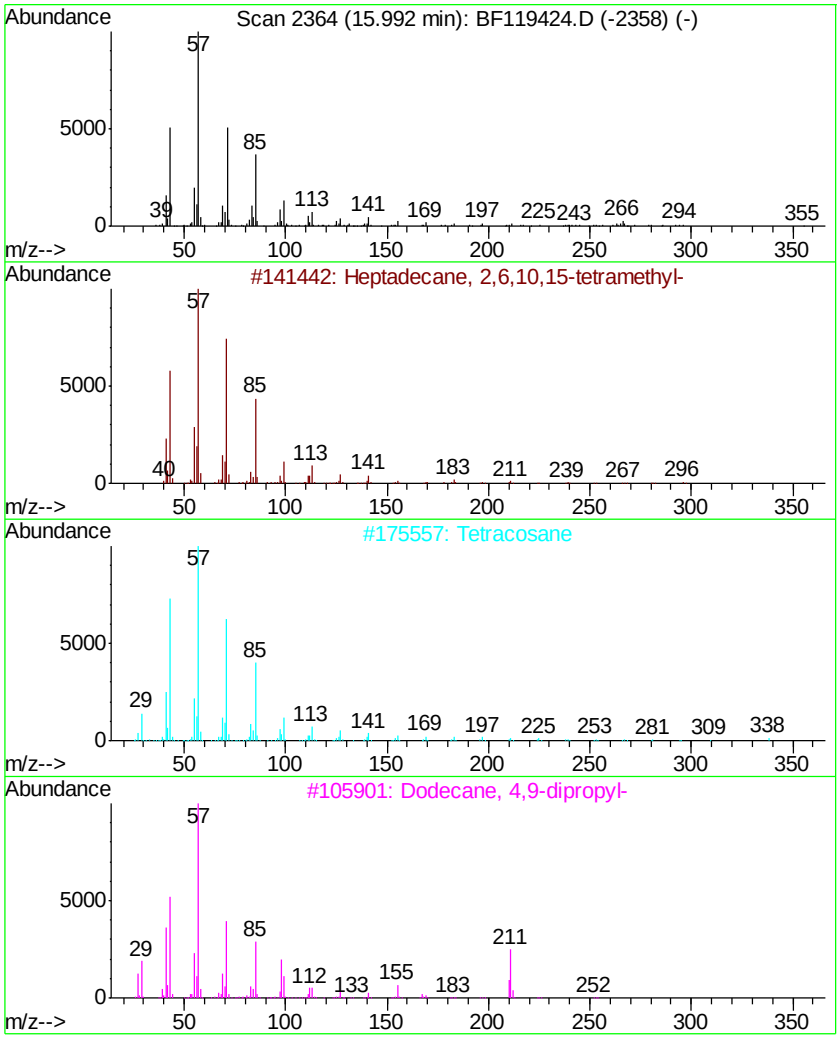
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

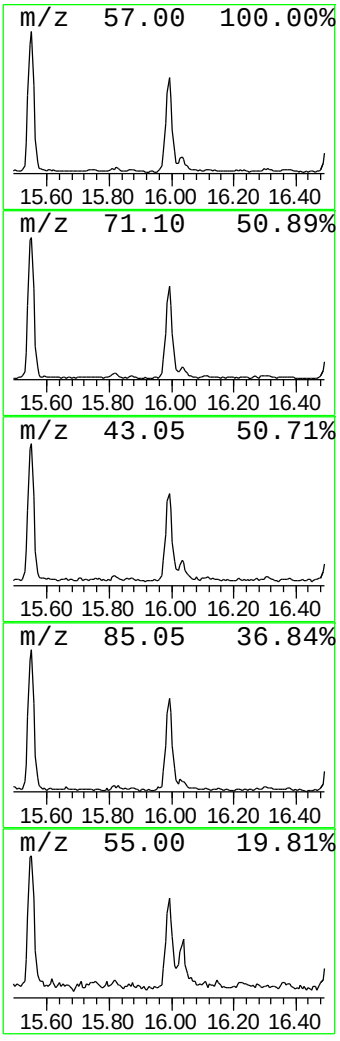
**********

Peak Number 13 Heptadecane, 2,6,10,15-tetr... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.99 | 5.76 ng | 533758 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 93 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 3 | Dodecane, 4,9-dipropyl- | 254 | C18H38 | 003054-63-5 | 90 |
| 4 | Hexadecane, 2-methyl- | 240 | C17H36 | 001560-92-5 | 90 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

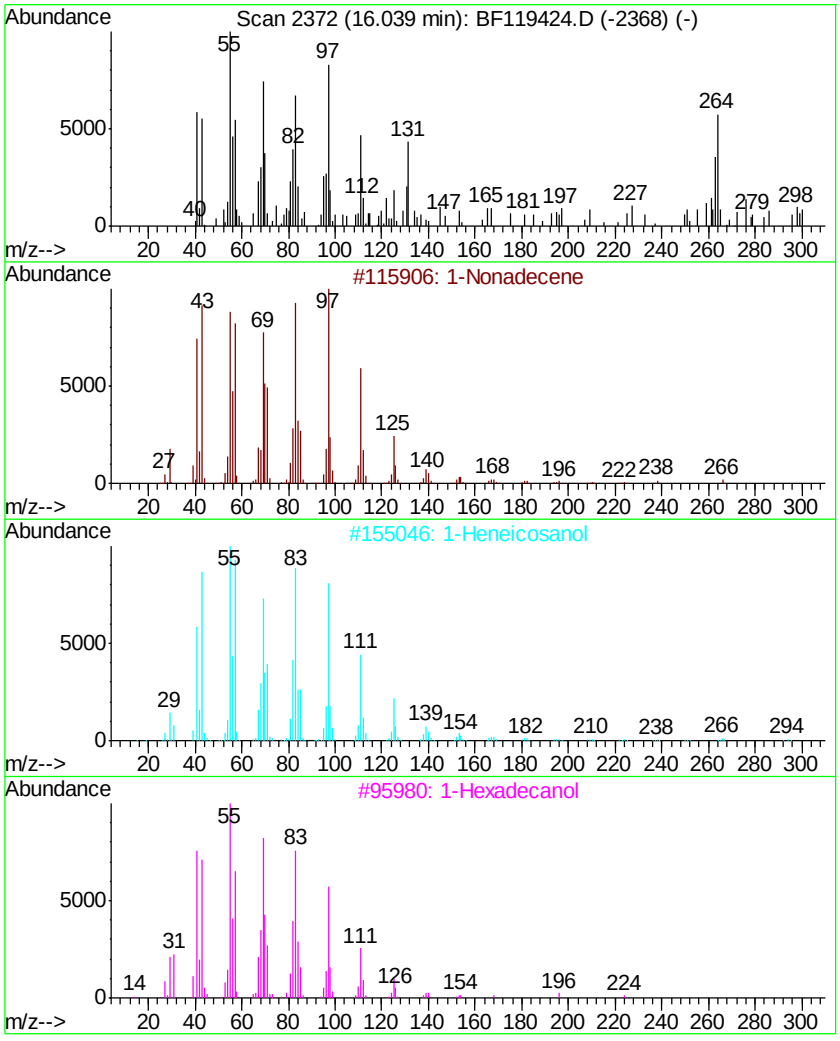
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

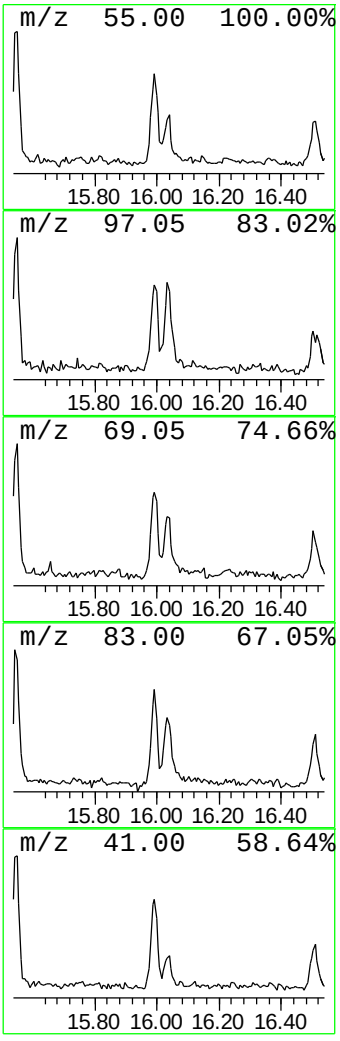
**********

Peak Number 14 unknown16.04 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.04 | 2.51 ng | 232866 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 49 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 49 |
| 3 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 46 |
| 4 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 46 |
| 5 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

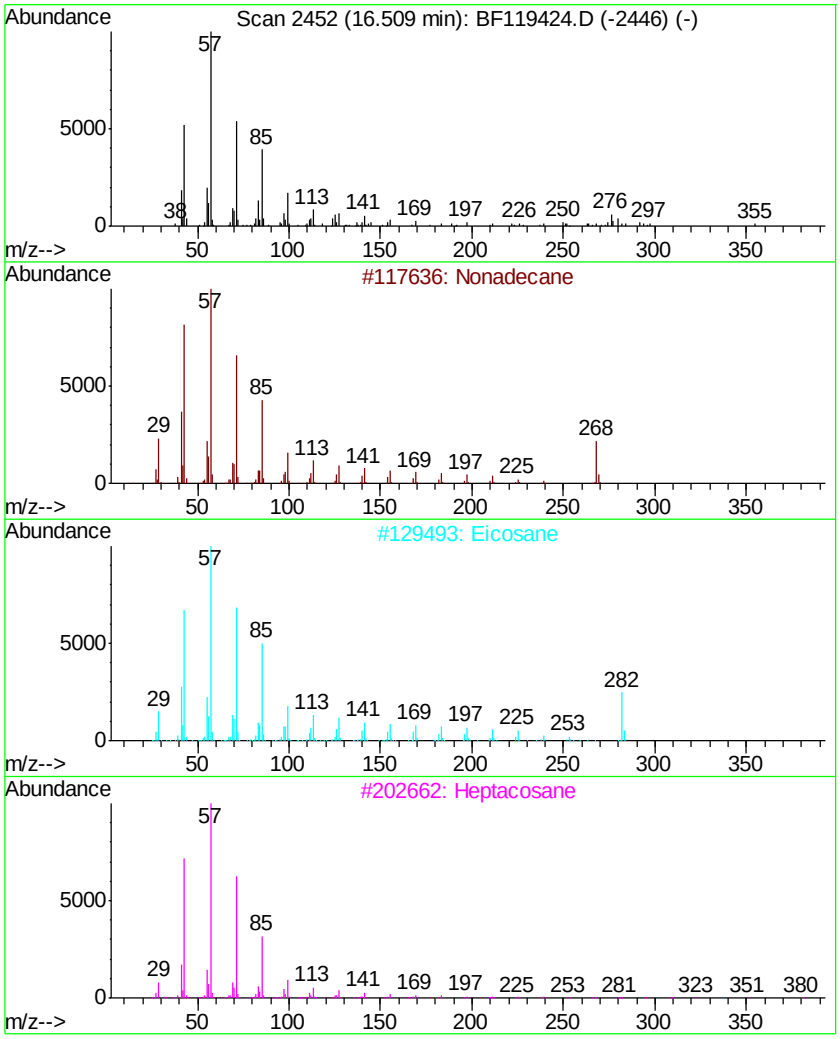
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

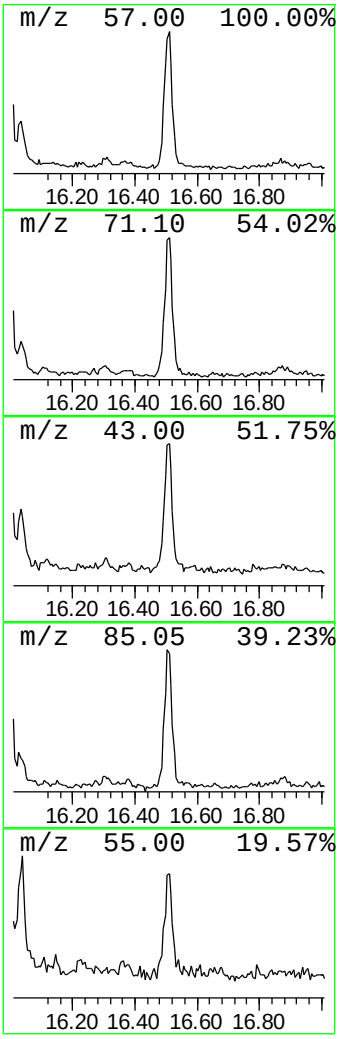
**********

Peak Number 15 Nonadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.51 | 3.26 ng | 301910 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 87 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 83 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 81 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

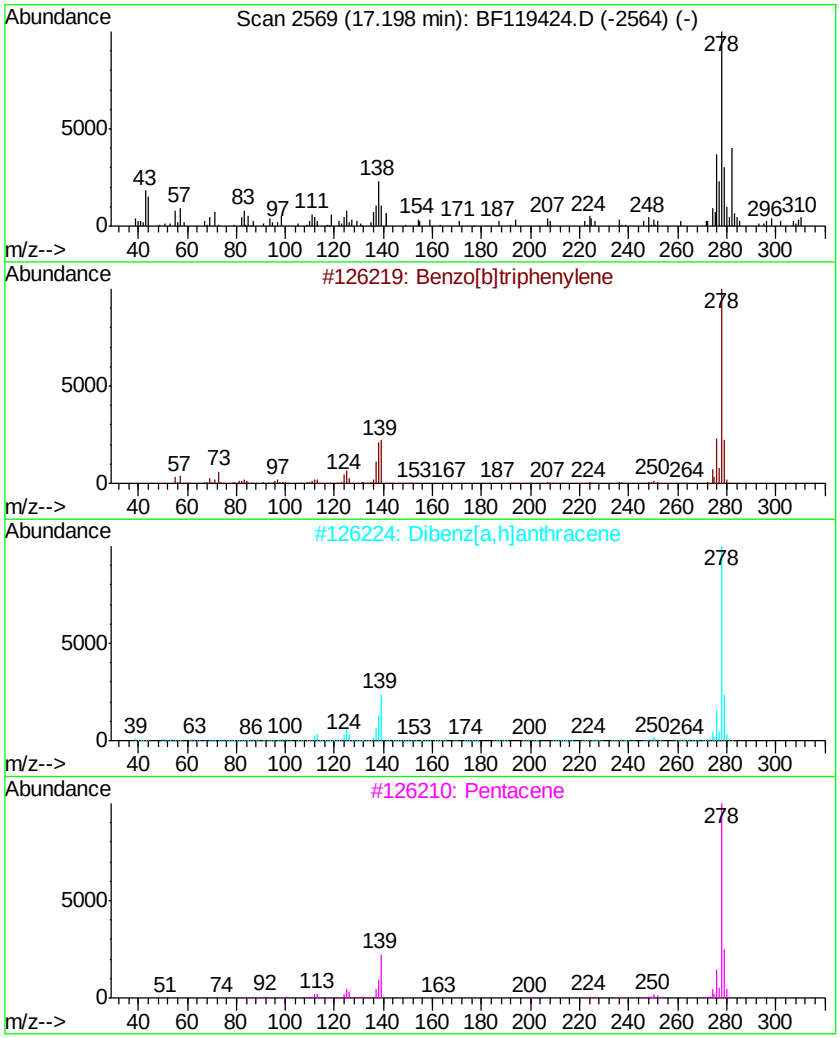
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

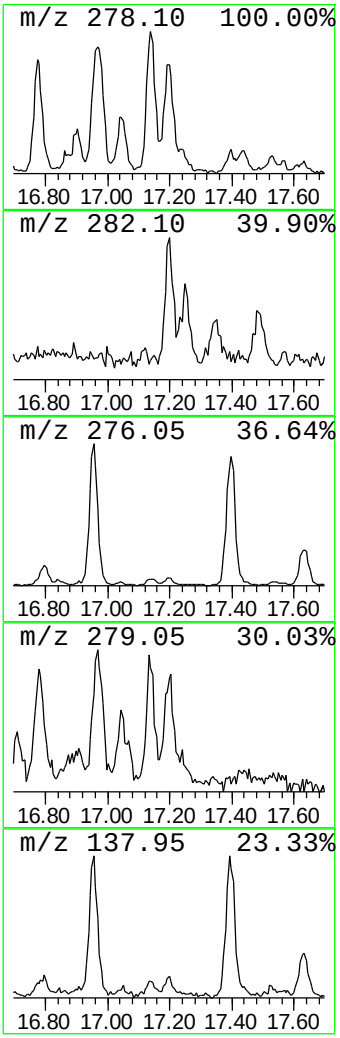
**********

Peak Number 16 Benzo[b]triphenylene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.20 | 2.49 ng | 231100 | Perylene-d12 | 15.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 55 |
| 2 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 49 |
| 3 | Pentacene | 278 | C22H14 | 000135-48-8 | 46 |
| 4 | Benzo[a]naphthacene | 278 | C22H14 | 000226-88-0 | 43 |
| 5 | 1-Butaneboronic acid, cyclic dip... | 278 | C18H19BO2 | 024371-99-1 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031820\
Data File : BF119424.D
Acq On : 18 Mar 2020 19:30
Operator : CG/JU
Sample : L1942-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-3-SA

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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 |
| Butane, 2-methoxy... | 2.16 | 4.3 | ng | 468153 | 1 | 6.86 | 2177790 | 20.0 |
| n-Hexadecanoic acid | 11.92 | 6.2 | ng | 959742 | 4 | 11.39 | 3106420 | 20.0 |
| 4H-Cyclopenta[def... | 12.00 | 2.8 | ng | 431476 | 4 | 11.39 | 3106420 | 20.0 |
| Octadecanoic acid | 12.70 | 3.6 | ng | 560573 | 4 | 11.39 | 3106420 | 20.0 |
| 1-Docosene | 13.87 | 6.8 | ng | 1018120 | 5 | 14.03 | 2974420 | 20.0 |
| Hexadecane | 14.20 | 2.6 | ng | 380176 | 5 | 14.03 | 2974420 | 20.0 |
| Octadecane | 14.51 | 4.2 | ng | 627830 | 5 | 14.03 | 2974420 | 20.0 |
| Tetradecane, 4-et... | 14.82 | 8.1 | ng | 746006 | 6 | 15.50 | 1853120 | 20.0 |
| Heptadecane, 2-me... | 15.16 | 9.5 | ng | 876114 | 6 | 15.50 | 1853120 | 20.0 |
| Benzo[e]pyrene | 15.37 | 6.1 | ng | 566310 | 6 | 15.50 | 1853120 | 20.0 |
| Eicosane | 15.55 | 6.9 | ng | 642322 | 6 | 15.50 | 1853120 | 20.0 |
| Heptadecane, 2,6,... | 15.99 | 5.8 | ng | 533758 | 6 | 15.50 | 1853120 | 20.0 |
| unknown16.04 | 16.04 | 2.5 | ng | 232866 | 6 | 15.50 | 1853120 | 20.0 |
| Nonadecane | 16.51 | 3.3 | ng | 301910 | 6 | 15.50 | 1853120 | 20.0 |
| Benzo[b]triphenylene | 17.20 | 2.5 | ng | 231100 | 6 | 15.50 | 1853120 | 20.0 |