LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(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 | 4.916 | 478 | 481 | 498 | rBV | 80372 | 122432 | 15.72% | 1.317% |
| 2 | 5.357 | 552 | 556 | 575 | rBV | 427441 | 633570 | 81.33% | 6.814% |
| 3 | 6.387 | 728 | 731 | 747 | rBV | 552449 | 750739 | 96.37% | 8.074% |
| 4 | 6.504 | 747 | 751 | 763 | rVB | 791600 | 778984 | 100.00% | 8.378% |
| 5 | 6.728 | 785 | 789 | 798 | rBV | 230040 | 215640 | 27.68% | 2.319% |
| 6 | 6.881 | 812 | 815 | 833 | rBV | 650628 | 588320 | 75.52% | 6.328% |
| 7 | 7.293 | 882 | 885 | 907 | rBV | 349108 | 466727 | 59.91% | 5.020% |
| 8 | 8.010 | 1003 | 1007 | 1023 | rBV | 223689 | 277100 | 35.57% | 2.980% |
| 9 | 9.081 | 1185 | 1189 | 1201 | rBV | 785309 | 725519 | 93.14% | 7.803% |
| 10 | 9.481 | 1254 | 1257 | 1265 | rVB | 82942 | 77285 | 9.92% | 0.831% |
| 11 | 9.757 | 1301 | 1304 | 1308 | rBV | 278752 | 277981 | 35.69% | 2.990% |
| 12 | 9.792 | 1308 | 1310 | 1318 | rVB | 23364 | 26120 | 3.35% | 0.281% |
| 13 | 9.981 | 1337 | 1342 | 1345 | rBV2 | 6125 | 8591 | 1.10% | 0.092% |
| 14 | 10.316 | 1395 | 1399 | 1405 | rBV2 | 15186 | 17289 | 2.22% | 0.186% |
| 15 | 10.557 | 1436 | 1440 | 1451 | rBV | 303999 | 347982 | 44.67% | 3.743% |
| 16 | 11.110 | 1530 | 1534 | 1537 | rBV3 | 6637 | 8324 | 1.07% | 0.090% |
| 17 | 11.151 | 1537 | 1541 | 1545 | rVB | 6435 | 8669 | 1.11% | 0.093% |
| 18 | 11.251 | 1554 | 1558 | 1560 | rBV | 236193 | 238446 | 30.61% | 2.565% |
| 19 | 11.275 | 1560 | 1562 | 1568 | rVV | 203517 | 193327 | 24.82% | 2.079% |
| 20 | 11.328 | 1568 | 1571 | 1577 | rVB | 46540 | 50440 | 6.48% | 0.543% |
| 21 | 11.498 | 1594 | 1600 | 1604 | rBV3 | 13428 | 21873 | 2.81% | 0.235% |
| 22 | 11.751 | 1640 | 1643 | 1645 | rBV | 22636 | 21141 | 2.71% | 0.227% |
| 23 | 11.780 | 1645 | 1648 | 1654 | rVV2 | 61938 | 81793 | 10.50% | 0.880% |
| 24 | 11.833 | 1654 | 1657 | 1659 | rVV | 13413 | 16443 | 2.11% | 0.177% |
| 25 | 11.863 | 1659 | 1662 | 1665 | rVV | 38501 | 46094 | 5.92% | 0.496% |
| 26 | 11.886 | 1665 | 1666 | 1672 | rVB | 17019 | 14798 | 1.90% | 0.159% |
| 27 | 12.045 | 1690 | 1693 | 1700 | rBV | 16887 | 18064 | 2.32% | 0.194% |
| 28 | 12.092 | 1700 | 1701 | 1704 | rBV | 8204 | 8093 | 1.04% | 0.087% |
| 29 | 12.192 | 1714 | 1718 | 1722 | rBV3 | 6687 | 8679 | 1.11% | 0.093% |
| 30 | 12.304 | 1733 | 1737 | 1739 | rBV | 16443 | 19079 | 2.45% | 0.205% |
| 31 | 12.327 | 1739 | 1741 | 1745 | rVV2 | 10962 | 15520 | 1.99% | 0.167% |
| 32 | 12.398 | 1749 | 1753 | 1757 | rVB5 | 10654 | 13584 | 1.74% | 0.146% |
| 33 | 12.463 | 1760 | 1764 | 1769 | rBV | 320849 | 293699 | 37.70% | 3.159% |
| 34 | 12.563 | 1778 | 1781 | 1786 | rBV3 | 11980 | 15522 | 1.99% | 0.167% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(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 | 1793 | rVV | 11778 | 12169 | 1.56% | 0.131% |
| 36 | 12.692 | 1797 | 1803 | 1810 | rBV | 296856 | 334178 | 42.90% | 3.594% |
| 37 | 12.745 | 1810 | 1812 | 1818 | rVB3 | 14522 | 18152 | 2.33% | 0.195% |
| 38 | 12.827 | 1822 | 1826 | 1831 | rVV | 648610 | 544684 | 69.92% | 5.858% |
| 39 | 12.869 | 1831 | 1833 | 1836 | rVV | 10699 | 10310 | 1.32% | 0.111% |
| 40 | 12.910 | 1836 | 1840 | 1845 | rVV6 | 16850 | 28731 | 3.69% | 0.309% |
| 41 | 13.004 | 1852 | 1856 | 1857 | rBV3 | 16869 | 22802 | 2.93% | 0.245% |
| 42 | 13.022 | 1857 | 1859 | 1862 | rVB2 | 30384 | 31308 | 4.02% | 0.337% |
| 43 | 13.092 | 1868 | 1871 | 1873 | rVB | 19074 | 17727 | 2.28% | 0.191% |
| 44 | 13.127 | 1873 | 1877 | 1885 | rBV4 | 29956 | 41521 | 5.33% | 0.447% |
| 45 | 13.222 | 1890 | 1893 | 1895 | rBV | 22884 | 21737 | 2.79% | 0.234% |
| 46 | 13.251 | 1895 | 1898 | 1904 | rVV4 | 16518 | 21513 | 2.76% | 0.231% |
| 47 | 13.298 | 1904 | 1906 | 1909 | rVB | 18024 | 12980 | 1.67% | 0.140% |
| 48 | 13.398 | 1920 | 1923 | 1925 | rBV3 | 8660 | 8148 | 1.05% | 0.088% |
| 49 | 13.510 | 1938 | 1942 | 1944 | rBV4 | 10361 | 12320 | 1.58% | 0.133% |
| 50 | 13.551 | 1945 | 1949 | 1954 | rVB | 23083 | 29874 | 3.83% | 0.321% |
| 51 | 13.645 | 1963 | 1965 | 1967 | rBV2 | 19171 | 20705 | 2.66% | 0.223% |
| 52 | 13.663 | 1967 | 1968 | 1971 | rVB2 | 19813 | 14747 | 1.89% | 0.159% |
| 53 | 13.698 | 1971 | 1974 | 1976 | rBV | 20411 | 19666 | 2.52% | 0.212% |
| 54 | 13.733 | 1976 | 1980 | 1982 | rBV3 | 41799 | 60877 | 7.81% | 0.655% |
| 55 | 13.857 | 1998 | 2001 | 2003 | rBV | 40364 | 35691 | 4.58% | 0.384% |
| 56 | 13.892 | 2003 | 2007 | 2010 | rVV2 | 311710 | 427632 | 54.90% | 4.599% |
| 57 | 13.921 | 2010 | 2012 | 2019 | rVB | 148590 | 144543 | 18.56% | 1.555% |
| 58 | 13.974 | 2019 | 2021 | 2023 | rBV3 | 8777 | 7791 | 1.00% | 0.084% |
| 59 | 14.004 | 2023 | 2026 | 2028 | rVV | 18386 | 17909 | 2.30% | 0.193% |
| 60 | 14.245 | 2065 | 2067 | 2069 | rBV3 | 8642 | 9020 | 1.16% | 0.097% |
| 61 | 14.269 | 2069 | 2071 | 2077 | rBV3 | 39087 | 69214 | 8.89% | 0.744% |
| 62 | 14.345 | 2082 | 2084 | 2087 | rBV3 | 18381 | 25185 | 3.23% | 0.271% |
| 63 | 14.639 | 2132 | 2134 | 2136 | rVB2 | 22730 | 20962 | 2.69% | 0.225% |
| 64 | 14.710 | 2143 | 2146 | 2149 | rVB | 39775 | 42401 | 5.44% | 0.456% |
| 65 | 14.774 | 2155 | 2157 | 2160 | rVB4 | 16971 | 15940 | 2.05% | 0.171% |
| 66 | 14.921 | 2179 | 2182 | 2185 | rBV | 119629 | 163248 | 20.96% | 1.756% |
| 67 | 14.951 | 2185 | 2187 | 2191 | rVB3 | 83309 | 92605 | 11.89% | 0.996% |
| 68 | 15.027 | 2197 | 2200 | 2210 | rVB2 | 32981 | 55777 | 7.16% | 0.600% |
| 69 | 15.216 | 2228 | 2232 | 2235 | rBV | 65267 | 76883 | 9.87% | 0.827% |
| 70 | 15.274 | 2239 | 2242 | 2245 | rBV | 92993 | 105758 | 13.58% | 1.137% |
| 71 | 15.333 | 2248 | 2252 | 2256 | rVB | 134315 | 158585 | 20.36% | 1.706% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 15.715 | 2313 | 2317 | 2320 | rVB3 | 24778 | 31924 | 4.10% | 0.343% |
| 73 | 16.180 | 2395 | 2396 | 2401 | rVB5 | 17651 | 17385 | 2.23% | 0.187% |
| 74 | 16.762 | 2491 | 2495 | 2500 | rVB2 | 25507 | 46408 | 5.96% | 0.499% |
| 75 | 17.186 | 2562 | 2567 | 2574 | rBV2 | 22151 | 40810 | 5.24% | 0.439% |

Sum of corrected areas: 9297687

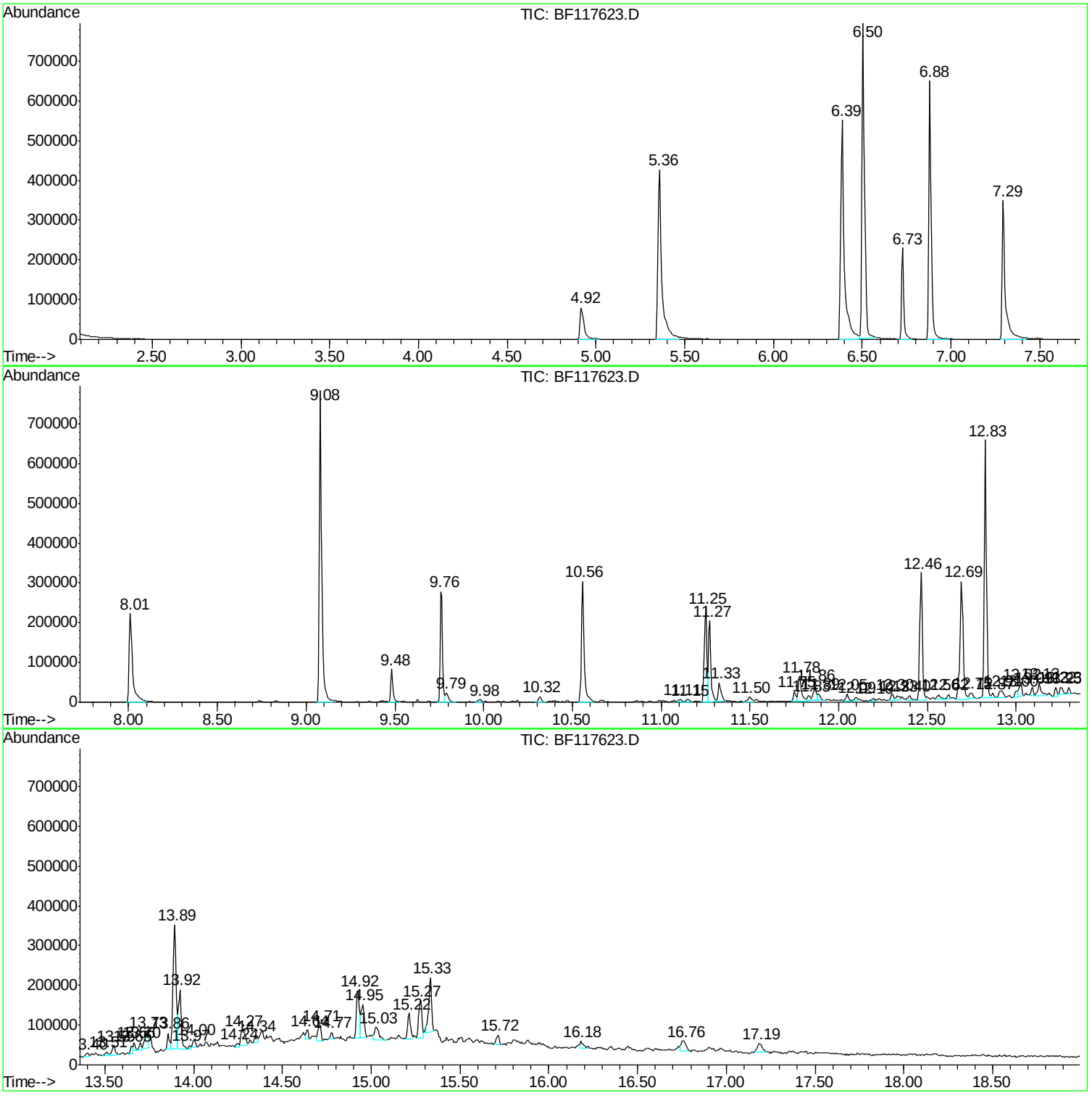
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

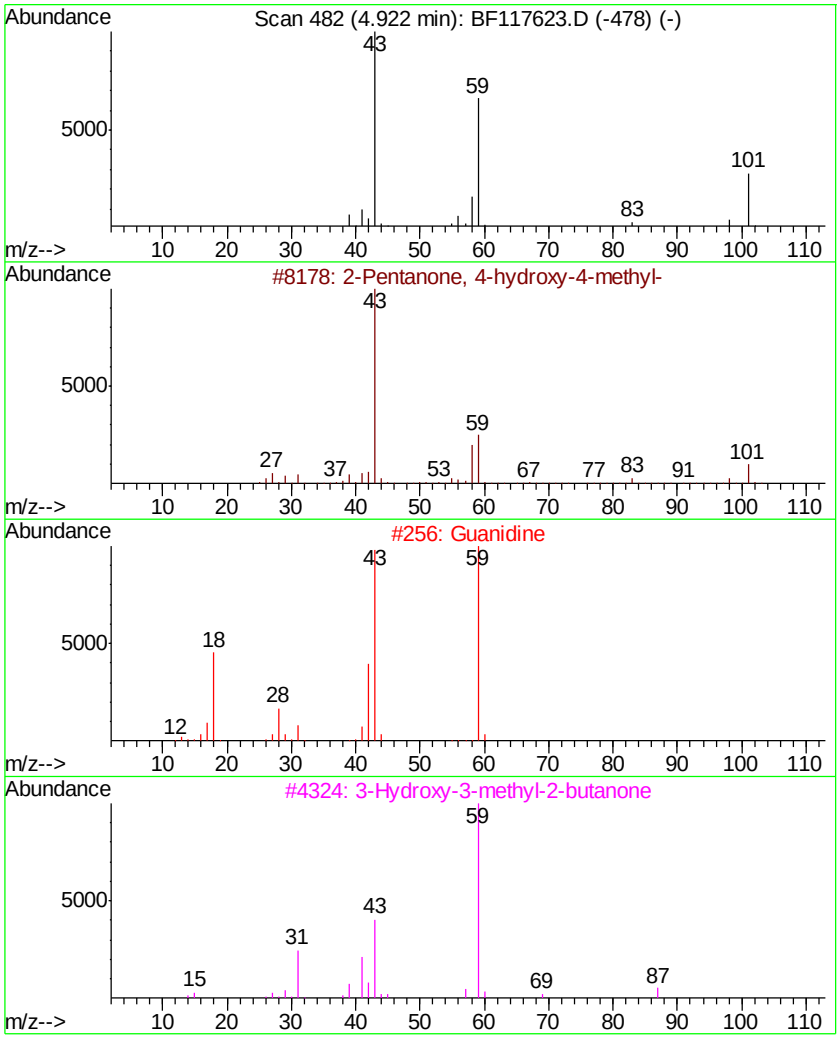
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

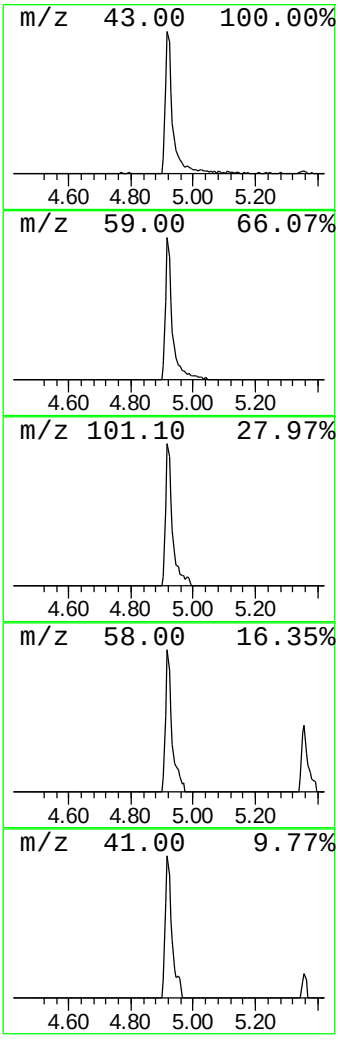
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 11.36 ng | 122432 | 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 | 64 |
| 2 | Guanidine | 59 | CH5N3 | 000113-00-8 | 43 |
| 3 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 25 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 25 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 17 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

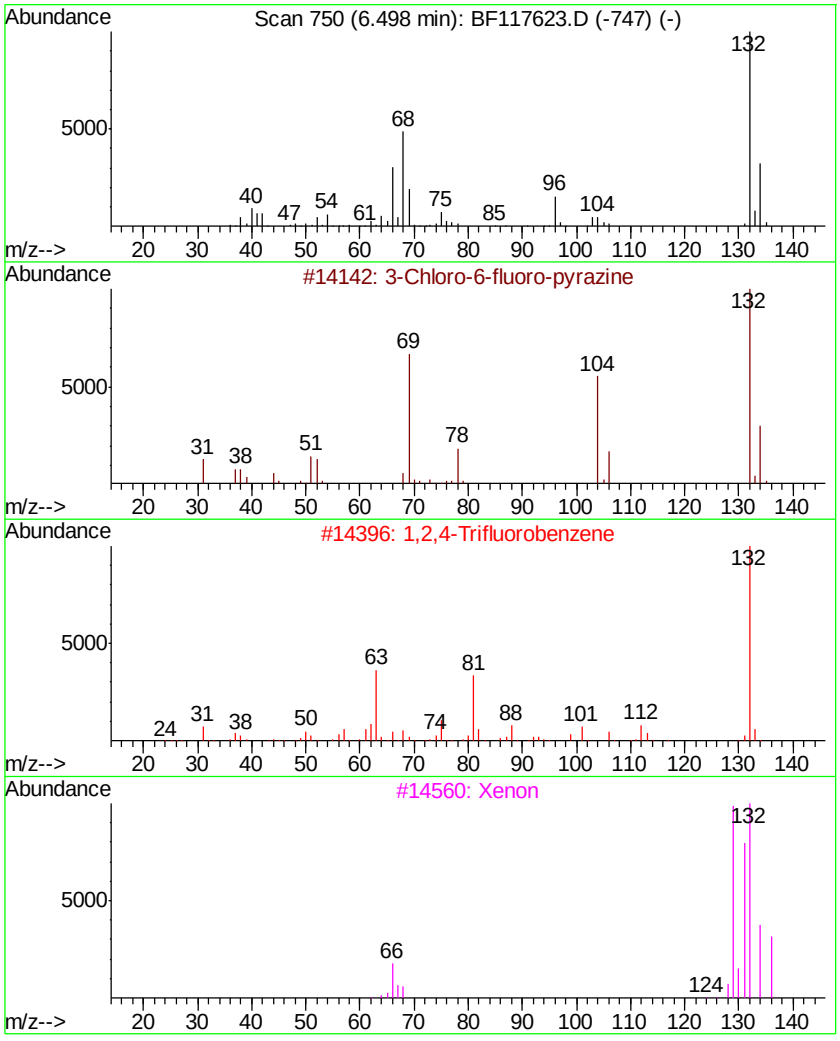
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

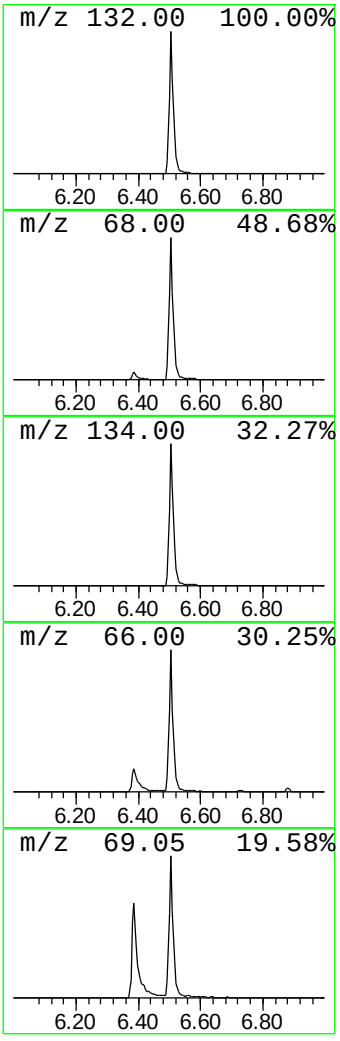
**********

Peak Number 2 unknown6.50 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.50 | 72.25 ng | 778984 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | 1,2,4-Trifluorobenzene | 132 | C6H3F3 | 000367-23-7 | 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-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

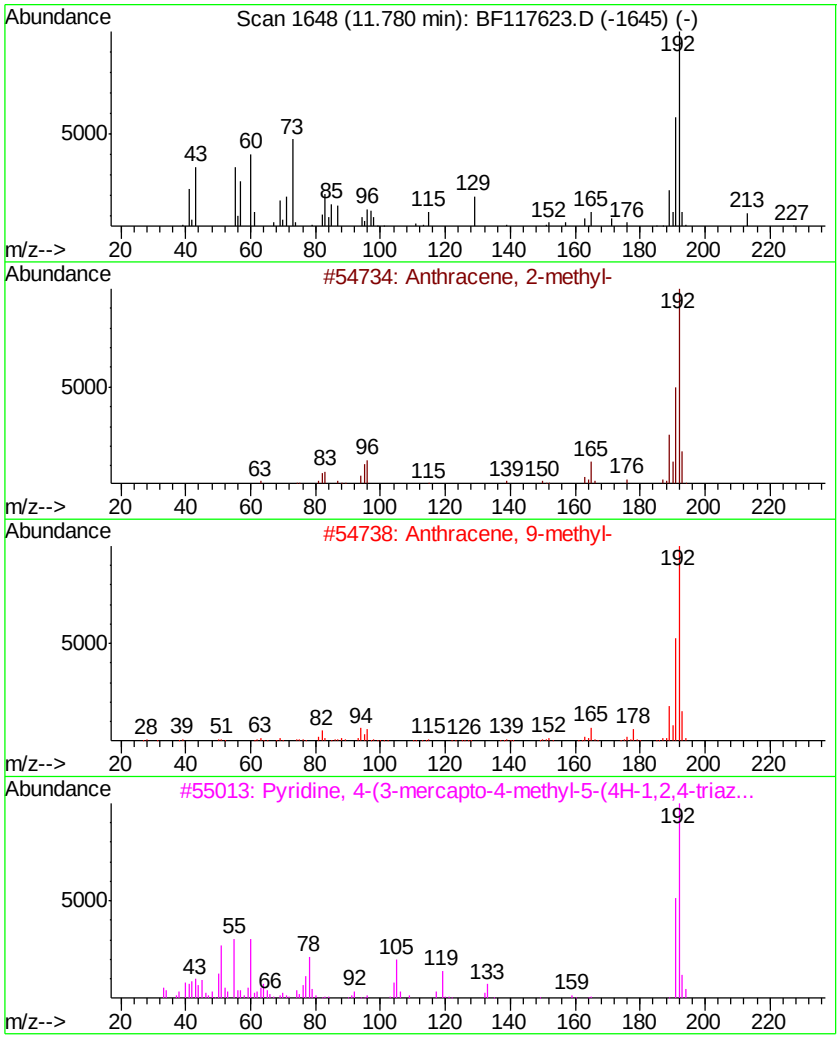
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

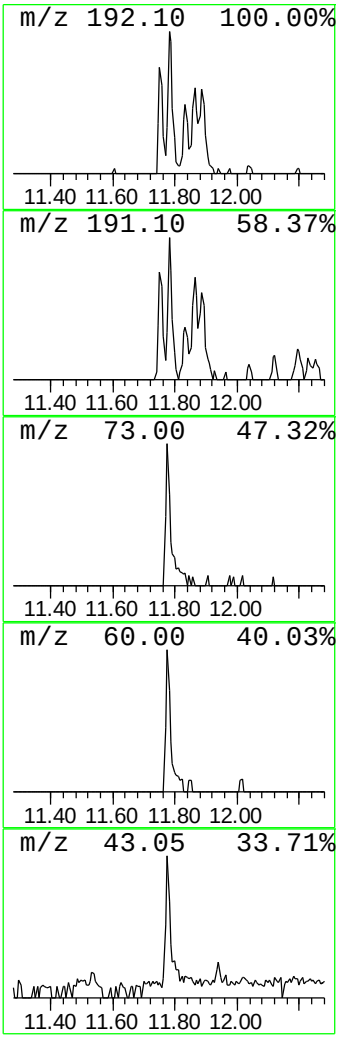
**********

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.78 | 6.86 ng | 81793 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 62 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 60 |
| 3 | Pyridine, 4-(3-mercapto-4-methyl... | 192 | C8H8N4S | 003652-32-2 | 58 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 55 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

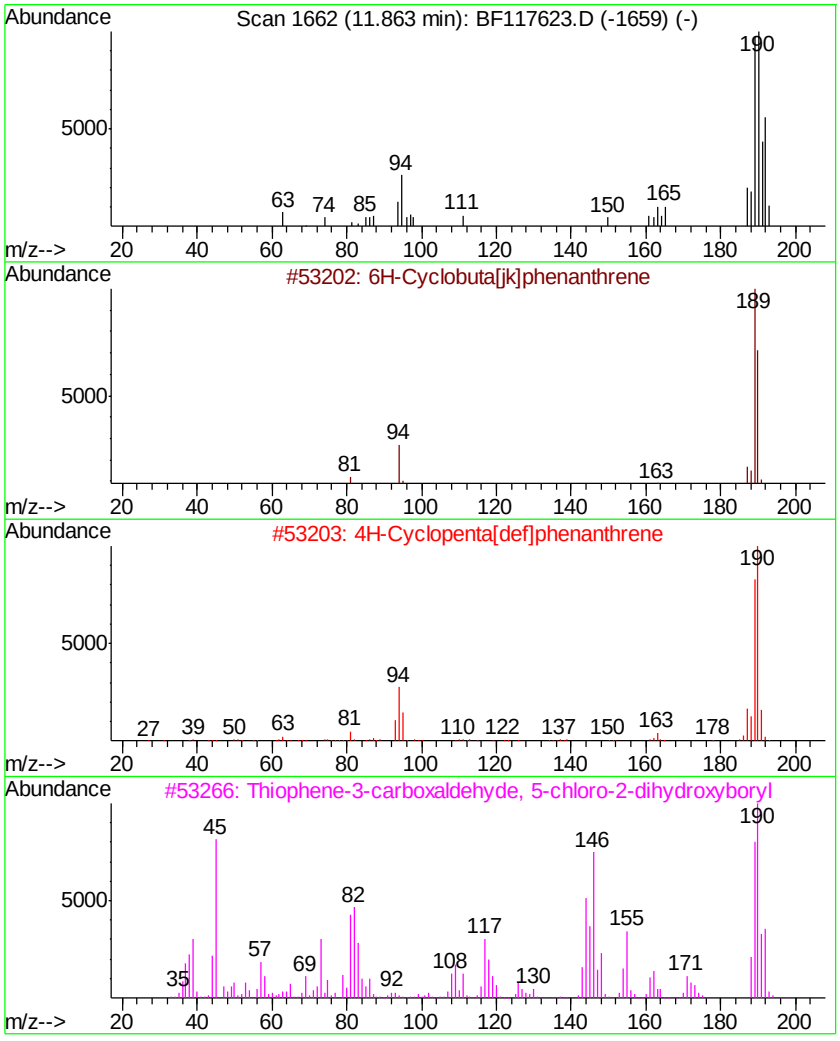
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

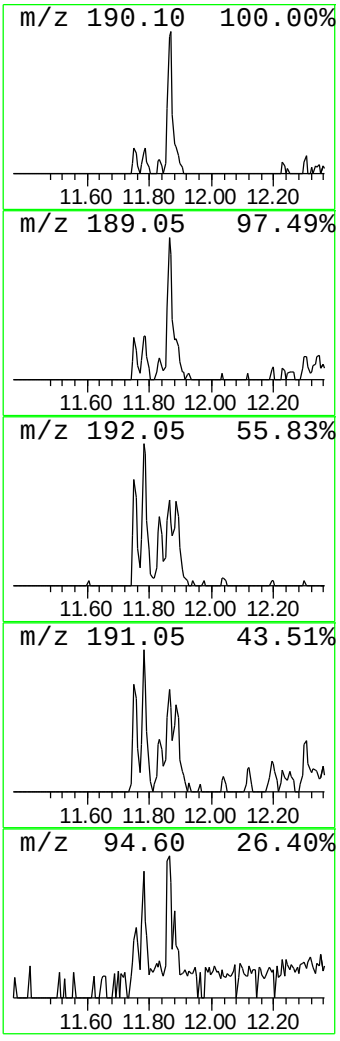
**********

Peak Number 5 6H-Cyclobuta[jk]phenanthrene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 3.87 ng | 46094 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 58 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 3 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 50 |
| 4 | 1H-Pyrazole-4-carboxaldehyde, 1-... | 190 | C10H7FN2O | 1000338-05-6 | 38 |
| 5 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 27 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

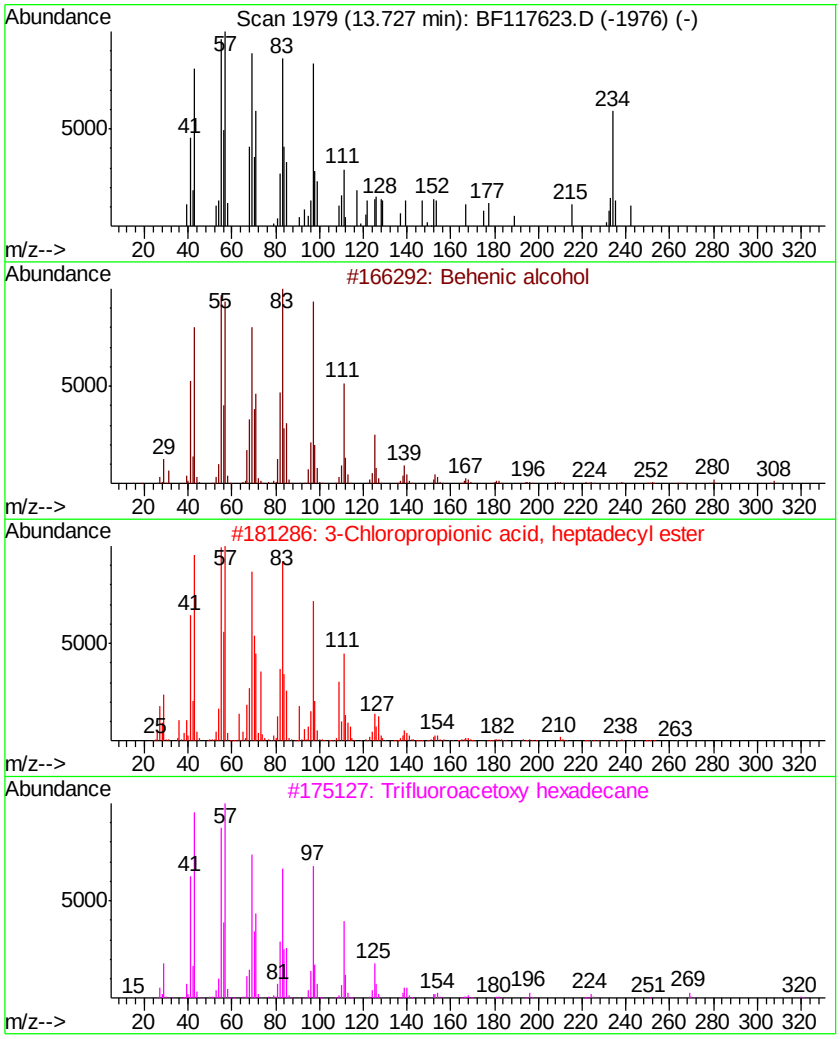
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

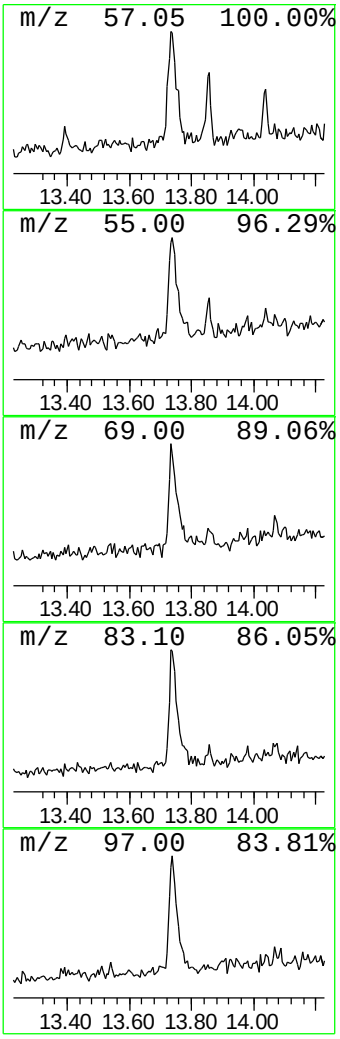
**********

Peak Number 6 Behenic alcohol Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 2.85 ng | 60877 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |
| 2 | 3-Chloropropionic acid, heptadec... | 346 | C20H39ClO2 | 1000283-05-1 | 91 |
| 3 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 87 |
| 4 | Isoheptadecanol | 256 | C17H36O | 057289-07-3 | 83 |
| 5 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

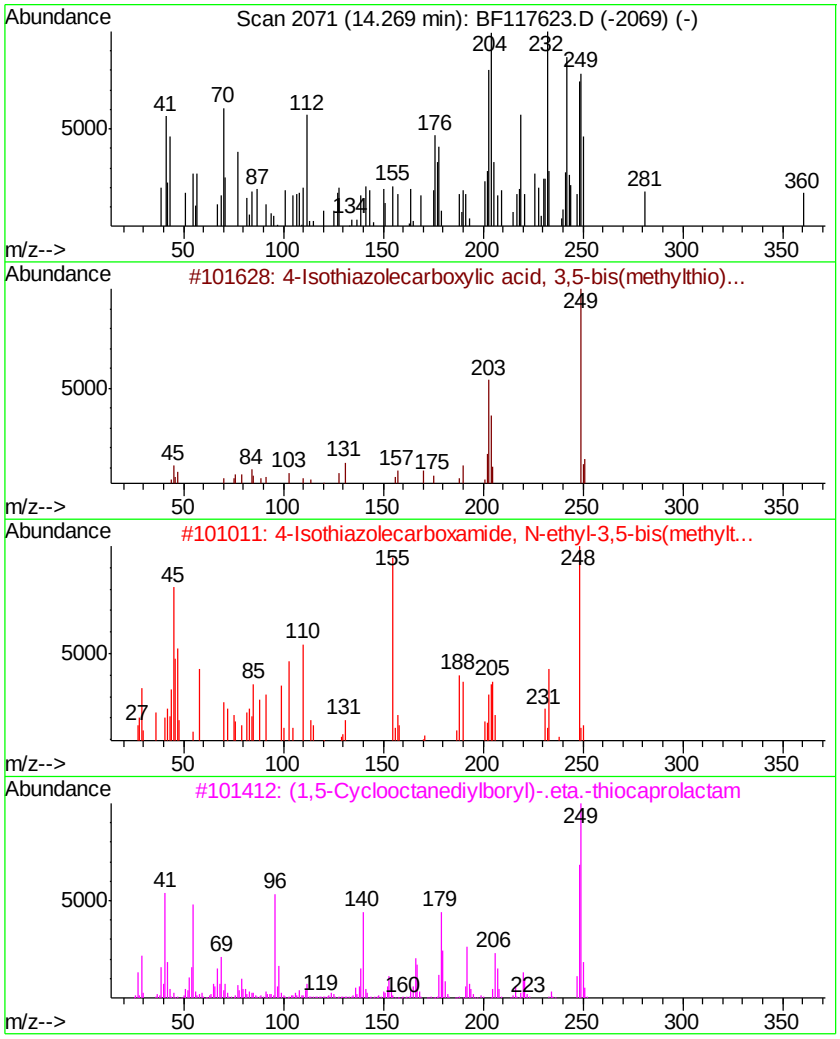
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

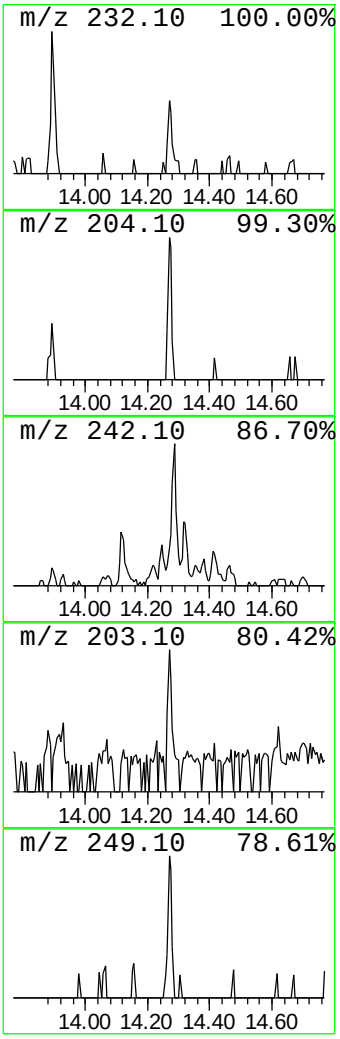
**********

Peak Number 7 unknown14.27 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.27 | 3.24 ng | 69214 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Isothiazolecarboxylic acid, 3,... | 249 | C8H11NO2S3 | 002273-03-2 | 22 |
| 2 | 4-Isothiazolecarboxamide, N-ethy... | 248 | C8H12N2OS3 | 037572-35-3 | 22 |
| 3 | (1,5-Cyclooctanediylboryl)-.eta.... | 249 | C14H24BNS | 1000161-66-4 | 18 |
| 4 | 2,1,3-Benzothiadiazole, 6-triflu... | 249 | C7H2F3N3O2S | 1000276-24-3 | 18 |
| 5 | Ethyl 5,6-dimethoxyindole-2-carb... | 249 | C13H15NO4 | 016382-18-6 | 14 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

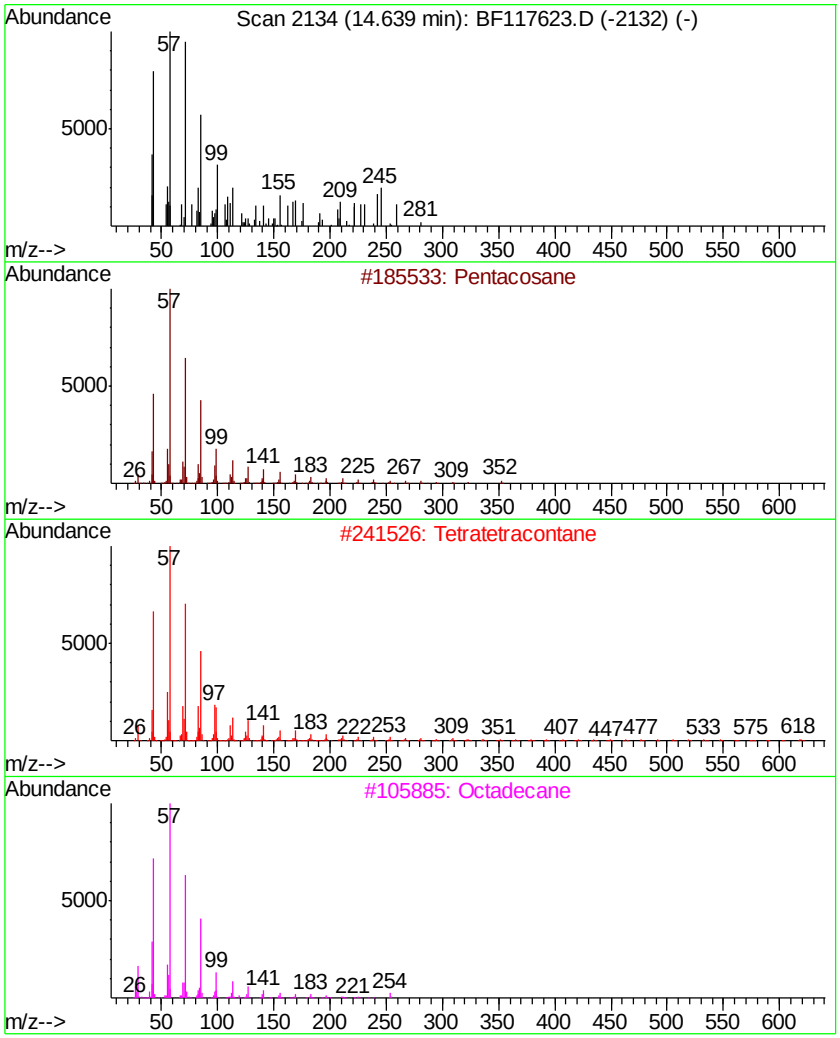
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

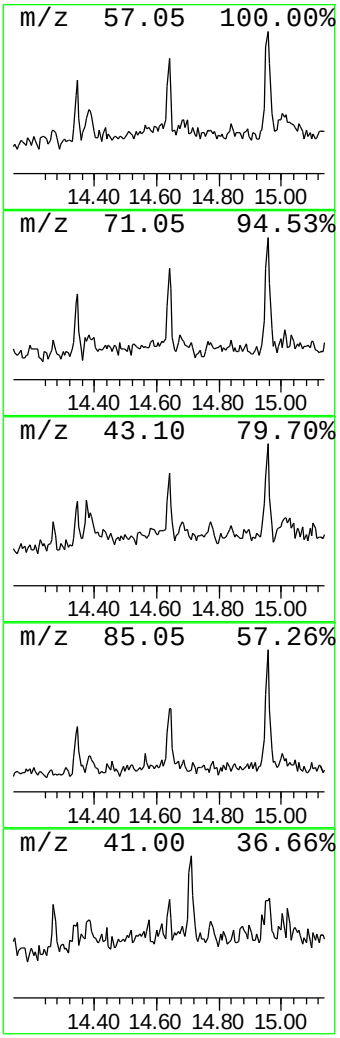
**********

Peak Number 8 Pentacosane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.64 | 2.64 ng | 20962 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentacosane | 352 | C25H52 | 000629-99-2 | 58 |
| 2 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 53 |
| 3 | Octadecane | 254 | C18H38 | 000593-45-3 | 53 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 53 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

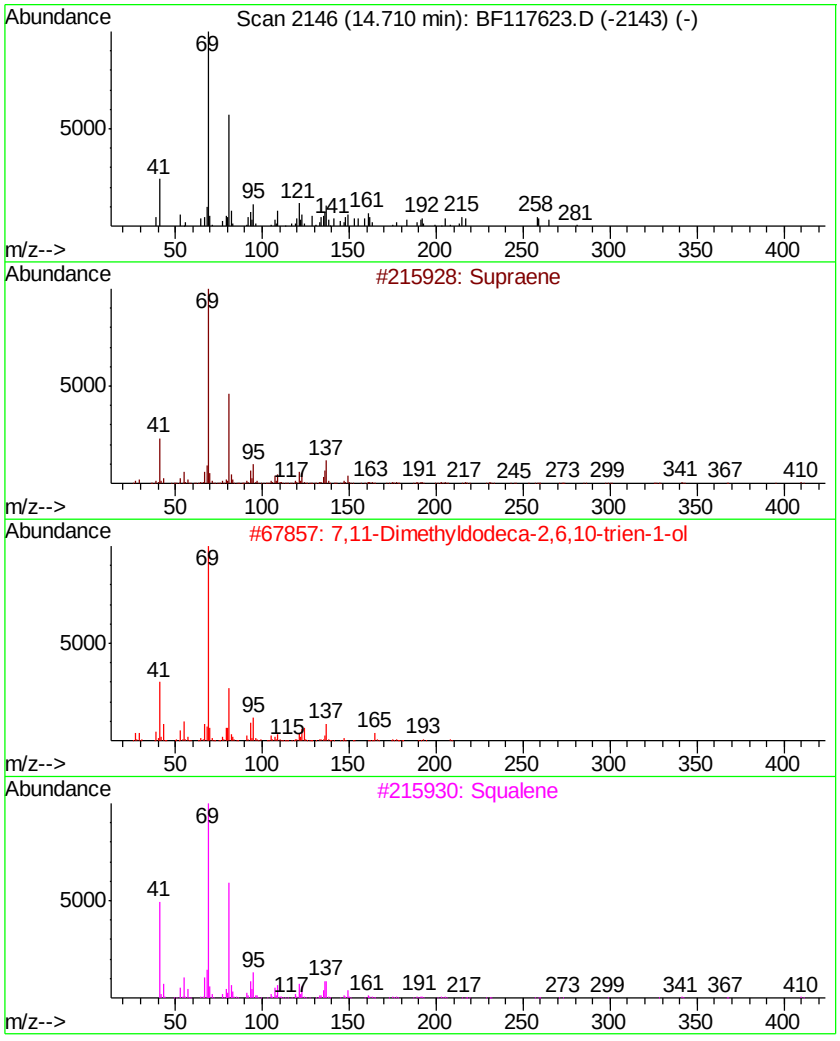
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

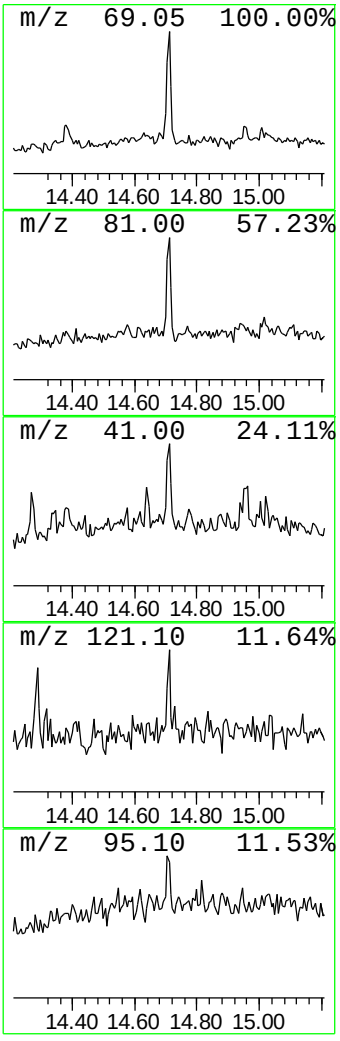
**********

Peak Number 9 Supraene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.71 | 5.35 ng | 42401 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 68 |
| 2 | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4 | 62 |
| 3 | Squalene | 410 | C30H50 | 000111-02-4 | 59 |
| 4 | (.+/-.)-Lavandulol, pentafluorop... | 300 | C13H17F5O2 | 1000352-63-1 | 59 |
| 5 | .beta.-D-Mannofuranoside, farnesyl- | 384 | C21H36O6 | 1000155-15-5 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

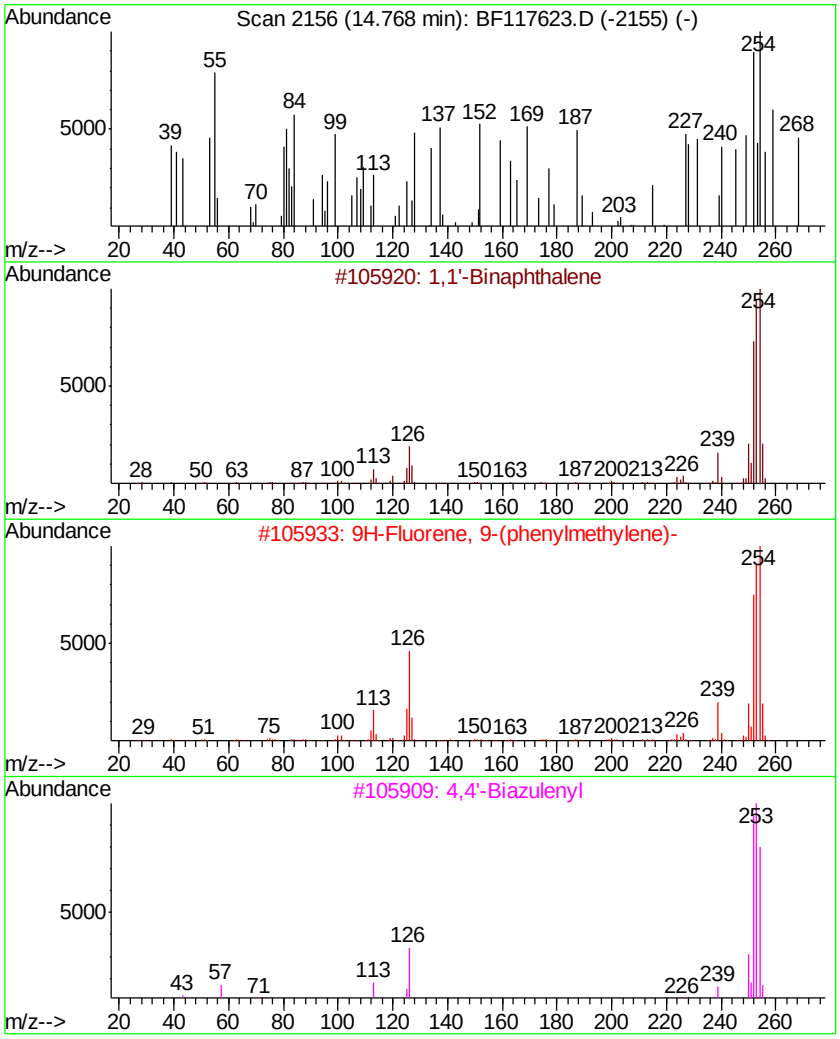
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

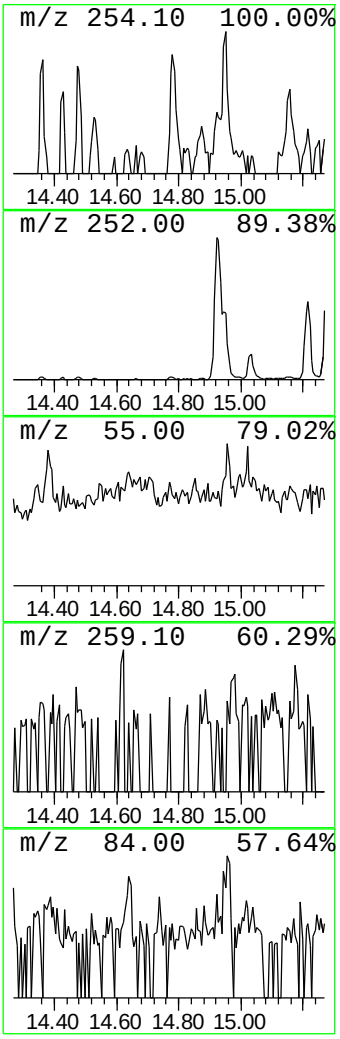
**********

Peak Number 10 1,1'-Binaphthalene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.77 | 2.01 ng | 15940 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Binaphthalene | 254 | C20H14 | 000604-53-5 | 53 |
| 2 | 9H-Fluorene, 9-(phenylmethylene)- | 254 | C20H14 | 001836-87-9 | 52 |
| 3 | 4,4'-Biazulenyl | 254 | C20H14 | 094053-54-0 | 52 |
| 4 | 4,6'-Biazulenyl | 254 | C20H14 | 094154-49-1 | 52 |
| 5 | 1,2'-Binaphthalene | 254 | C20H14 | 004325-74-0 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

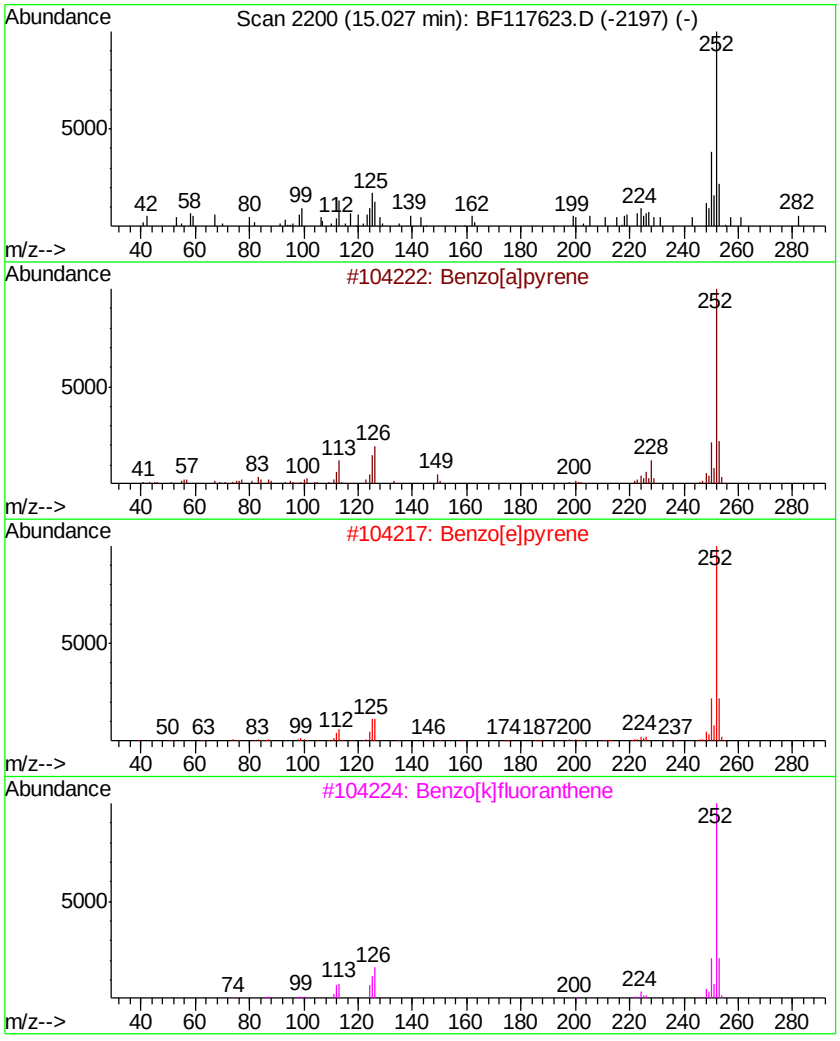
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

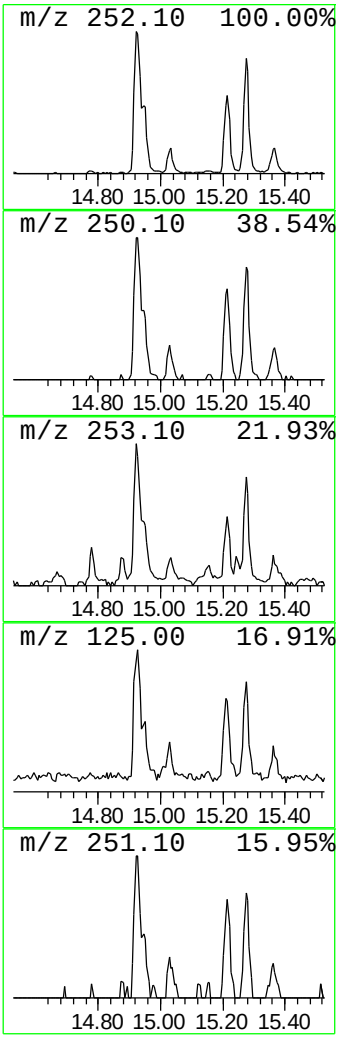
**********

Peak Number 11 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.03 | 7.03 ng | 55777 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 64 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 52 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 52 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 50 |
| 5 | 12H-[1,3]Benzothiazolo[2,3-b]qui... | 252 | C14H8N2OS | 1000338-32-6 | 47 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

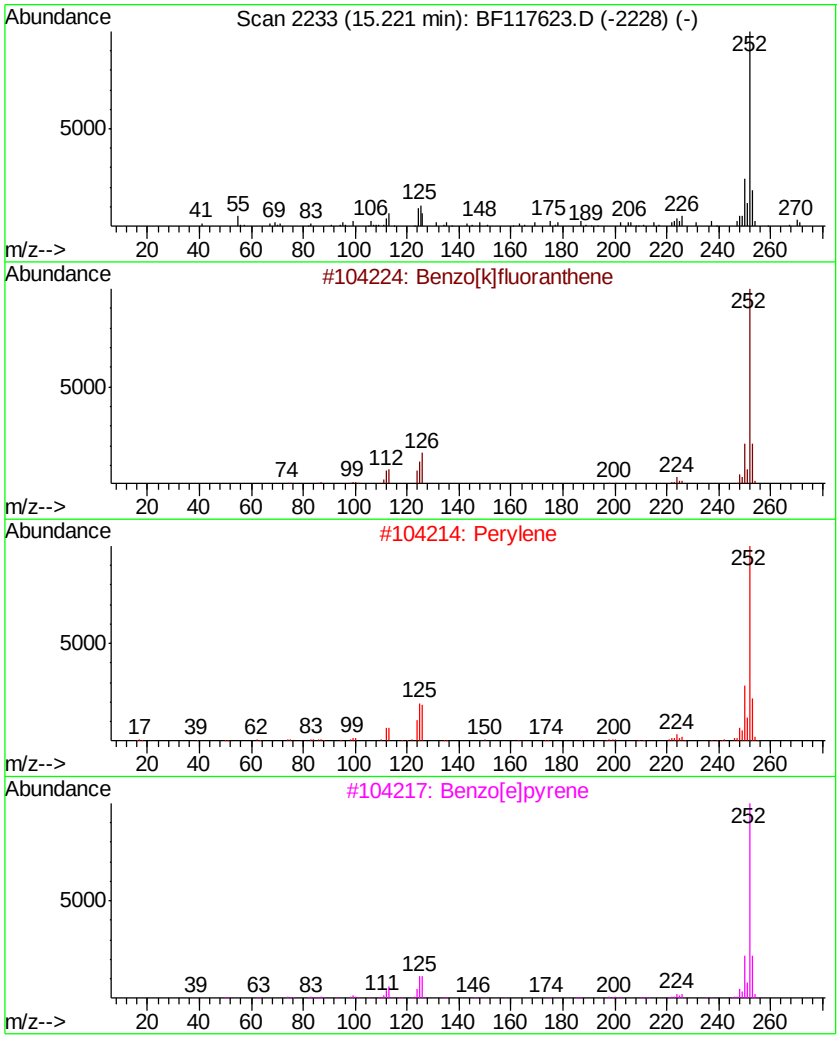
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

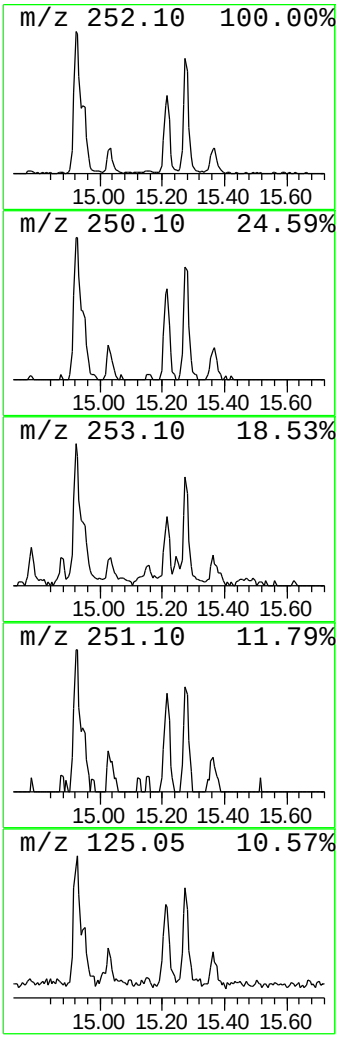
**********

Peak Number 12 Perylene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.22 | 9.70 ng | 76883 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 3 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 95 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

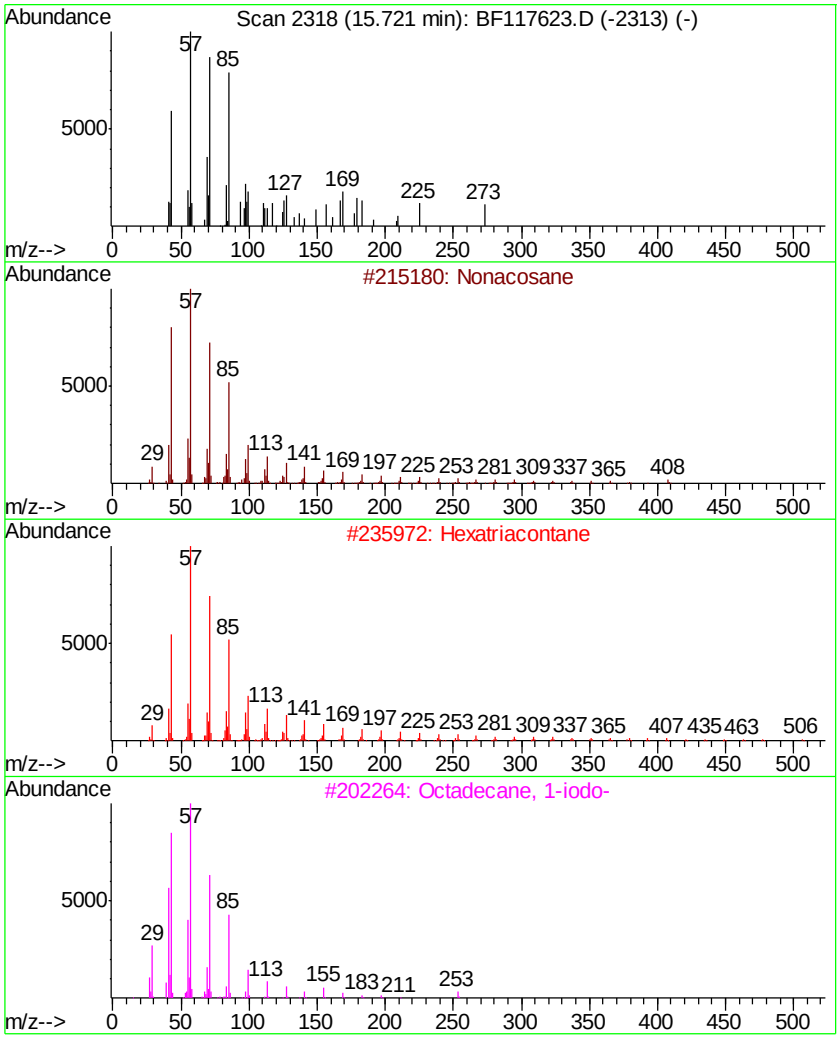
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

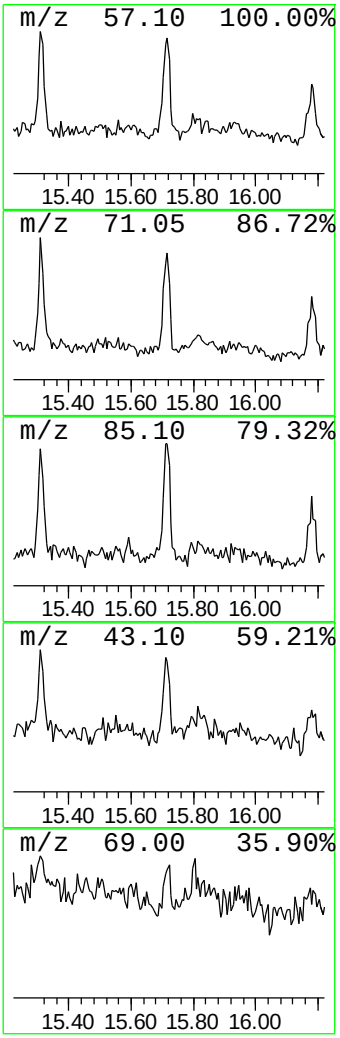
**********

Peak Number 13 Nonacosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.72 | 4.03 ng | 31924 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonacosane | 408 | C29H60 | 000630-03-5 | 53 |
| 2 | Hexatriacontane | 507 | C36H74 | 000630-06-8 | 53 |
| 3 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 50 |
| 4 | Nonane, 1-iodo- | 254 | C9H19I | 004282-42-2 | 47 |
| 5 | Nonane, 5-methyl-5-propyl- | 184 | C13H28 | 017312-75-3 | 47 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(0-2)

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

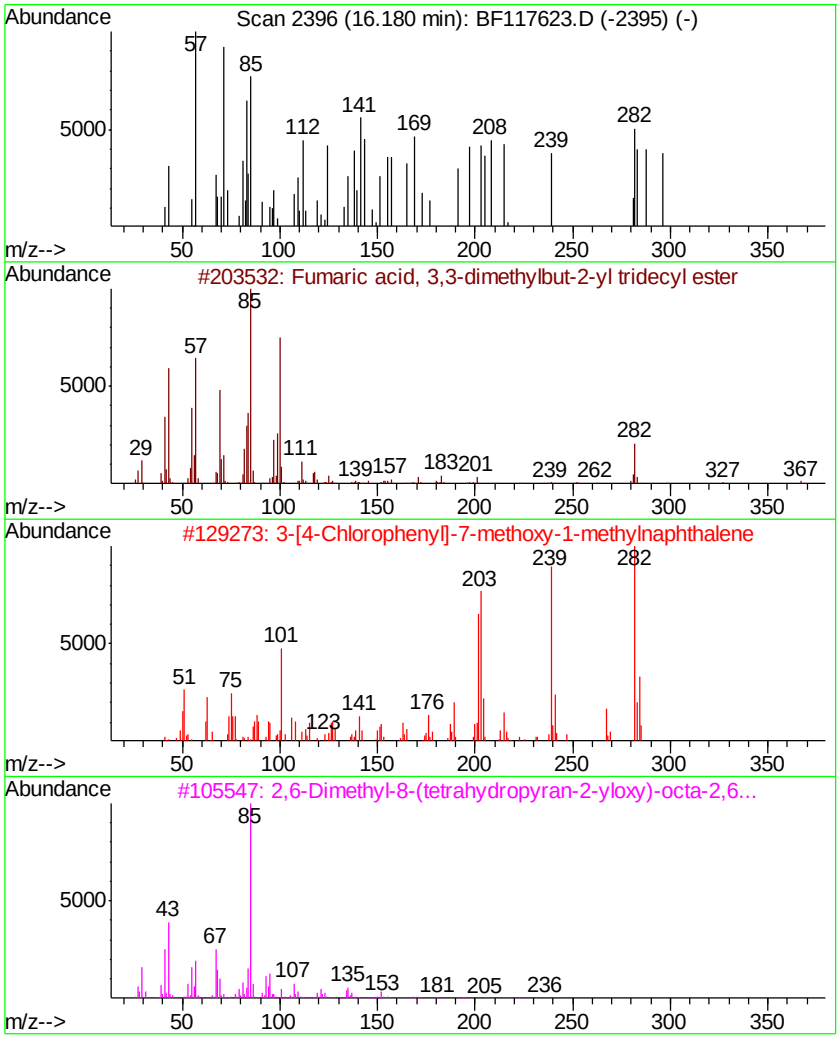
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

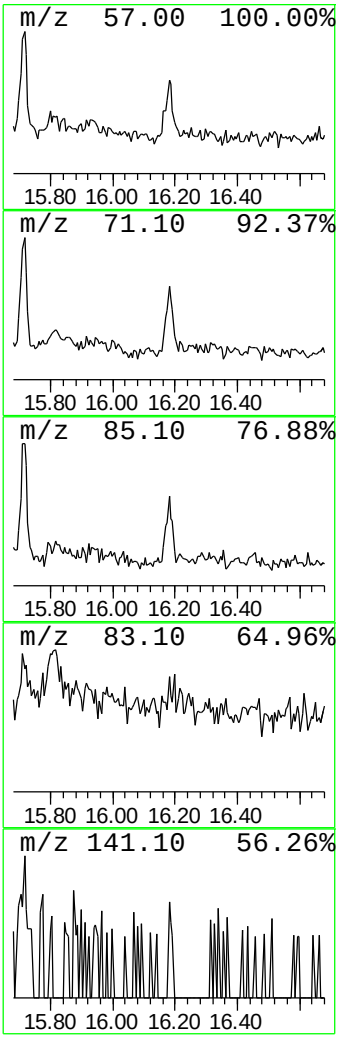
**********

Peak Number 14 unknown16.18 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.18 | 2.19 ng | 17385 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fumaric acid, 3,3-dimethylbut-2-... | 382 | C23H42O4 | 1000348-71-2 | 14 |
| 2 | 3-[4-Chlorophenyl]-7-methoxy-1-m... | 282 | C18H15ClO | 055614-38-5 | 10 |
| 3 | 2,6-Dimethyl-8-(tetrahydropyran-... | 254 | C15H26O3 | 038290-53-8 | 10 |
| 4 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 10 |
| 5 | Cholest-22-ene-21-ol, 3,5-dehydr... | 498 | C33H54O3 | 1000124-60-2 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103019\
Data File : BF117623.D
Acq On : 30 Oct 2019 14:39
Operator : JU
Sample : K5542-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 198-90-(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... | 4.92 | 11.4 | ng | 122432 | 1 | 6.73 | 215640 | 20.0 |
| unknown6.50 | 6.50 | 72.3 | ng | 778984 | 1 | 6.73 | 215640 | 20.0 |
| Anthracene, 2-met... | 11.78 | 6.9 | ng | 81793 | 4 | 11.25 | 238446 | 20.0 |
| 6H-Cyclobuta[jk]p... | 11.86 | 3.9 | ng | 46094 | 4 | 11.25 | 238446 | 20.0 |
| Behenic alcohol | 13.73 | 2.9 | ng | 60877 | 5 | 13.89 | 427632 | 20.0 |
| unknown14.27 | 14.27 | 3.2 | ng | 69214 | 5 | 13.89 | 427632 | 20.0 |
| Pentacosane | 14.64 | 2.6 | ng | 20962 | 6 | 15.33 | 158585 | 20.0 |
| Supraene | 14.71 | 5.3 | ng | 42401 | 6 | 15.33 | 158585 | 20.0 |
| 1,1'-Binaphthalene | 14.77 | 2.0 | ng | 15940 | 6 | 15.33 | 158585 | 20.0 |
| Benzo[e]pyrene | 15.03 | 7.0 | ng | 55777 | 6 | 15.33 | 158585 | 20.0 |
| Perylene | 15.22 | 9.7 | ng | 76883 | 6 | 15.33 | 158585 | 20.0 |
| Nonacosane | 15.72 | 4.0 | ng | 31924 | 6 | 15.33 | 158585 | 20.0 |
| unknown16.18 | 16.18 | 2.2 | ng | 17385 | 6 | 15.33 | 158585 | 20.0 |