LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

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-BF042721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF123791.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.187 | 13 | 17 | 26 | rVB | 272625 | 328767 | 5.87% | 0.631% |
| 2 | 5.016 | 495 | 498 | 506 | rVB | 206455 | 230359 | 4.11% | 0.442% |
| 3 | 5.428 | 564 | 568 | 572 | rBV | 5772617 | 5382807 | 96.05% | 10.325% |
| 4 | 6.445 | 736 | 741 | 744 | rBV | 6050362 | 5604019 | 100.00% | 10.749% |
| 5 | 6.804 | 798 | 802 | 806 | rBV | 2012038 | 1540889 | 27.50% | 2.956% |
| 6 | 7.369 | 893 | 898 | 901 | rBV | 4234842 | 3606007 | 64.35% | 6.917% |
| 7 | 8.092 | 1015 | 1021 | 1024 | rBV | 2289176 | 1874779 | 33.45% | 3.596% |
| 8 | 9.169 | 1198 | 1204 | 1207 | rBV | 6358714 | 5134730 | 91.63% | 9.849% |
| 9 | 9.557 | 1268 | 1270 | 1278 | rVB | 147728 | 146131 | 2.61% | 0.280% |
| 10 | 9.704 | 1292 | 1295 | 1301 | rBV | 71285 | 60954 | 1.09% | 0.117% |
| 11 | 9.845 | 1313 | 1319 | 1322 | rBV | 2351607 | 1851896 | 33.05% | 3.552% |
| 12 | 9.875 | 1322 | 1324 | 1328 | rVB | 119058 | 104250 | 1.86% | 0.200% |
| 13 | 10.392 | 1409 | 1412 | 1418 | rVB | 121408 | 110176 | 1.97% | 0.211% |
| 14 | 10.633 | 1449 | 1453 | 1456 | rBV | 3693791 | 3045353 | 54.34% | 5.841% |
| 15 | 10.757 | 1471 | 1474 | 1478 | rVB3 | 65157 | 75393 | 1.35% | 0.145% |
| 16 | 11.227 | 1552 | 1554 | 1559 | rVB | 103095 | 96575 | 1.72% | 0.185% |
| 17 | 11.333 | 1568 | 1572 | 1574 | rBV | 1822823 | 1725029 | 30.78% | 3.309% |
| 18 | 11.357 | 1574 | 1576 | 1579 | rVV | 1172499 | 920464 | 16.43% | 1.766% |
| 19 | 11.404 | 1579 | 1584 | 1588 | rVB | 203675 | 192821 | 3.44% | 0.370% |
| 20 | 11.563 | 1605 | 1611 | 1613 | rBV2 | 107152 | 126242 | 2.25% | 0.242% |
| 21 | 11.627 | 1620 | 1622 | 1625 | rBV | 80309 | 62755 | 1.12% | 0.120% |
| 22 | 11.663 | 1625 | 1628 | 1631 | rVB | 75528 | 66675 | 1.19% | 0.128% |
| 23 | 11.833 | 1653 | 1657 | 1659 | rBV | 230236 | 198996 | 3.55% | 0.382% |
| 24 | 11.863 | 1659 | 1662 | 1667 | rVV2 | 325042 | 353567 | 6.31% | 0.678% |
| 25 | 11.945 | 1672 | 1676 | 1678 | rVV | 374751 | 372384 | 6.64% | 0.714% |
| 26 | 11.969 | 1678 | 1680 | 1684 | rVB | 154402 | 127375 | 2.27% | 0.244% |
| 27 | 12.127 | 1704 | 1707 | 1709 | rBV | 150615 | 133099 | 2.38% | 0.255% |
| 28 | 12.151 | 1709 | 1711 | 1715 | rVB2 | 231411 | 196420 | 3.50% | 0.377% |
| 29 | 12.310 | 1735 | 1738 | 1740 | rBV2 | 80555 | 68826 | 1.23% | 0.132% |
| 30 | 12.380 | 1747 | 1750 | 1753 | rBV | 154424 | 166713 | 2.97% | 0.320% |
| 31 | 12.422 | 1753 | 1757 | 1762 | rVB5 | 130690 | 224398 | 4.00% | 0.430% |
| 32 | 12.469 | 1762 | 1765 | 1769 | rBV2 | 120599 | 134415 | 2.40% | 0.258% |
| 33 | 12.545 | 1774 | 1778 | 1781 | rBV | 2070678 | 1648307 | 29.41% | 3.162% |
| 34 | 12.698 | 1801 | 1804 | 1807 | rVB2 | 85012 | 82449 | 1.47% | 0.158% |
| 35 | 12.774 | 1811 | 1817 | 1819 | rBV | 1720767 | 1706564 | 30.45% | 3.273% |
| 36 | 12.798 | 1819 | 1821 | 1823 | rVV | 125470 | 98756 | 1.76% | 0.189% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
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Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

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-BF042721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 12.821 | 1823 | 1825 | 1830 | rVB2 | 86803 | 112159 | 2.00% | 0.215% |
| 38 | 12.892 | 1834 | 1837 | 1838 | rBV2 | 104645 | 85758 | 1.53% | 0.164% |
| 39 | 12.921 | 1838 | 1842 | 1845 | rVV | 4133716 | 3594421 | 64.14% | 6.895% |
| 40 | 12.992 | 1849 | 1854 | 1857 | rBV2 | 125575 | 196917 | 3.51% | 0.378% |
| 41 | 13.080 | 1866 | 1869 | 1870 | rBV3 | 88776 | 85915 | 1.53% | 0.165% |
| 42 | 13.104 | 1870 | 1873 | 1876 | rVB | 287992 | 269596 | 4.81% | 0.517% |
| 43 | 13.169 | 1876 | 1884 | 1887 | rBV2 | 236313 | 338243 | 6.04% | 0.649% |
| 44 | 13.204 | 1887 | 1890 | 1893 | rBV | 185016 | 196368 | 3.50% | 0.377% |
| 45 | 13.298 | 1904 | 1906 | 1909 | rVB | 112273 | 88461 | 1.58% | 0.170% |
| 46 | 13.327 | 1909 | 1911 | 1914 | rBV | 117165 | 104292 | 1.86% | 0.200% |
| 47 | 13.498 | 1938 | 1940 | 1943 | rBV2 | 104480 | 96002 | 1.71% | 0.184% |
| 48 | 13.610 | 1956 | 1959 | 1963 | rVB | 149653 | 152207 | 2.72% | 0.292% |
| 49 | 13.721 | 1973 | 1978 | 1981 | rBV2 | 189471 | 250059 | 4.46% | 0.480% |
| 50 | 13.751 | 1981 | 1983 | 1985 | rVV | 132582 | 102597 | 1.83% | 0.197% |
| 51 | 13.774 | 1985 | 1987 | 1991 | rVV2 | 107725 | 118315 | 2.11% | 0.227% |
| 52 | 13.827 | 1992 | 1996 | 2005 | rVV4 | 355052 | 671579 | 11.98% | 1.288% |
| 53 | 13.974 | 2016 | 2021 | 2023 | rBV2 | 1552723 | 1956224 | 34.91% | 3.752% |
| 54 | 13.998 | 2023 | 2025 | 2028 | rVB | 742127 | 580498 | 10.36% | 1.113% |
| 55 | 14.063 | 2033 | 2036 | 2037 | rBV3 | 62423 | 65165 | 1.16% | 0.125% |
| 56 | 14.080 | 2037 | 2039 | 2041 | rVB | 118250 | 94778 | 1.69% | 0.182% |
| 57 | 14.139 | 2047 | 2049 | 2055 | rVB5 | 75231 | 115444 | 2.06% | 0.221% |
| 58 | 14.363 | 2085 | 2087 | 2089 | rVB | 152812 | 117404 | 2.09% | 0.225% |
| 59 | 14.398 | 2090 | 2093 | 2096 | rVV2 | 119387 | 118617 | 2.12% | 0.228% |
| 60 | 14.451 | 2099 | 2102 | 2105 | rVV2 | 142919 | 157358 | 2.81% | 0.302% |
| 61 | 14.486 | 2105 | 2108 | 2110 | rVV2 | 138299 | 160125 | 2.86% | 0.307% |
| 62 | 14.504 | 2110 | 2111 | 2115 | rVB3 | 124169 | 92004 | 1.64% | 0.176% |
| 63 | 14.733 | 2147 | 2150 | 2152 | rBV | 240287 | 233317 | 4.16% | 0.448% |
| 64 | 15.010 | 2193 | 2197 | 2200 | rBV | 674822 | 998156 | 17.81% | 1.915% |
| 65 | 15.115 | 2213 | 2215 | 2220 | rVB | 97612 | 89810 | 1.60% | 0.172% |
| 66 | 15.304 | 2244 | 2247 | 2254 | rVB | 382393 | 506335 | 9.04% | 0.971% |
| 67 | 15.368 | 2254 | 2258 | 2264 | rBV | 519789 | 668993 | 11.94% | 1.283% |
| 68 | 15.433 | 2264 | 2269 | 2272 | rBV | 874759 | 1102065 | 19.67% | 2.114% |
| 69 | 15.898 | 2345 | 2348 | 2353 | rVB2 | 70801 | 103028 | 1.84% | 0.198% |
| 70 | 16.868 | 2508 | 2513 | 2521 | rBV2 | 211680 | 415066 | 7.41% | 0.796% |
| 71 | 17.304 | 2583 | 2587 | 2597 | rVB | 159899 | 297572 | 5.31% | 0.571% |

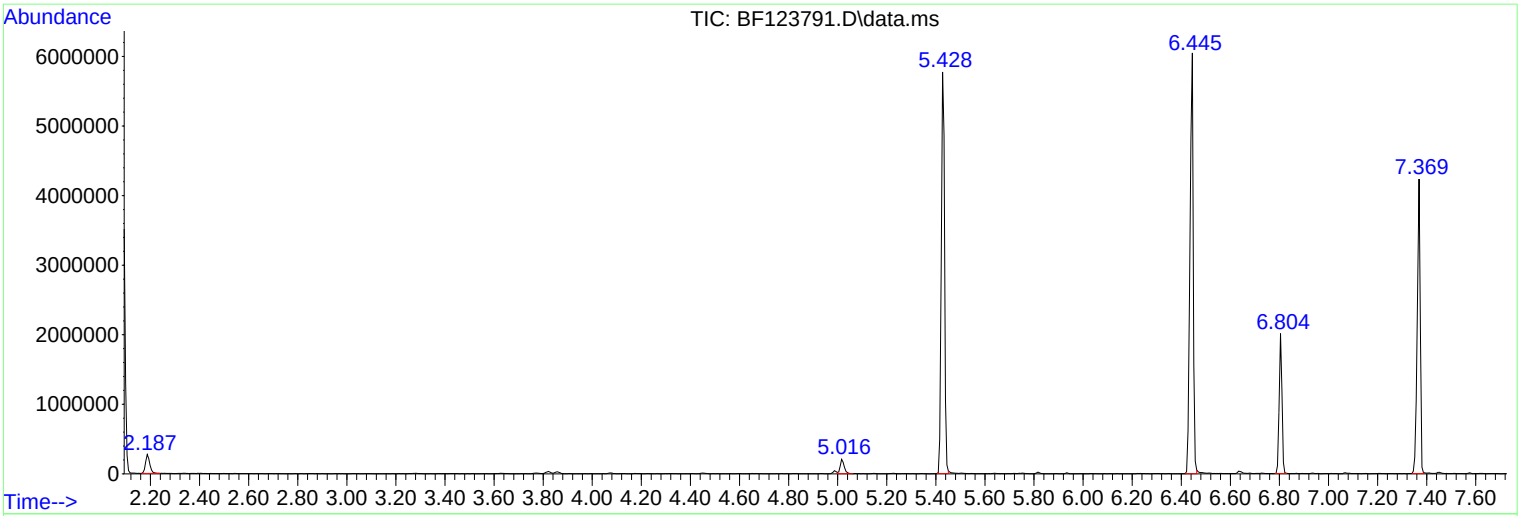
Sum of corrected areas: 52134188

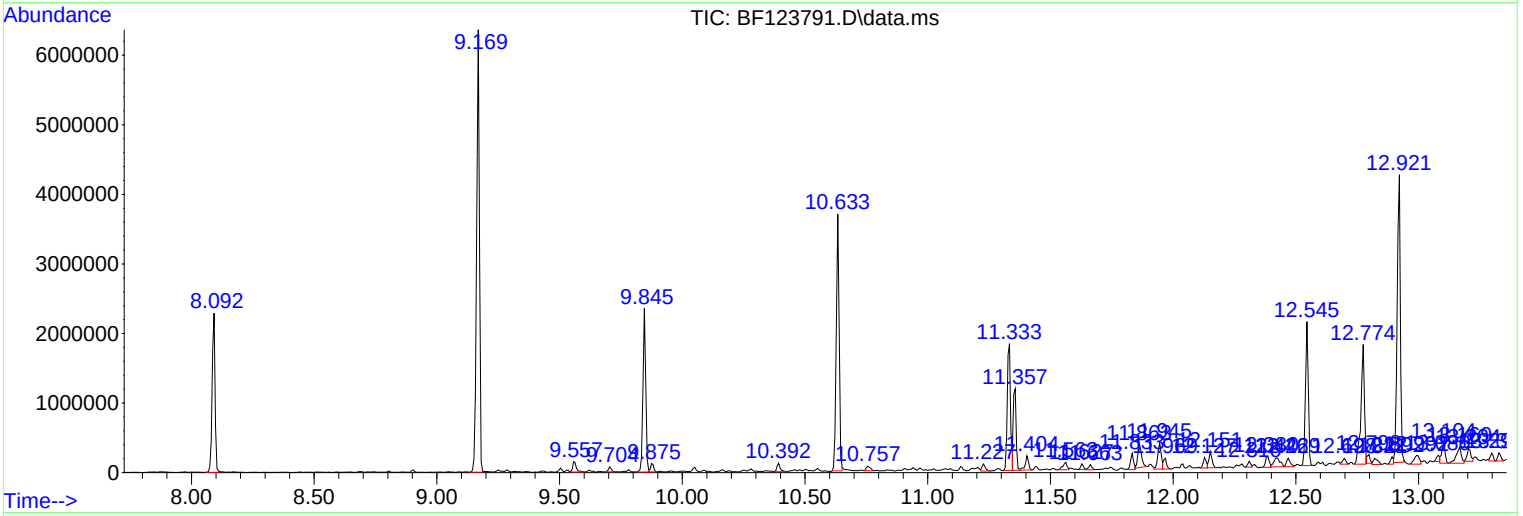
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

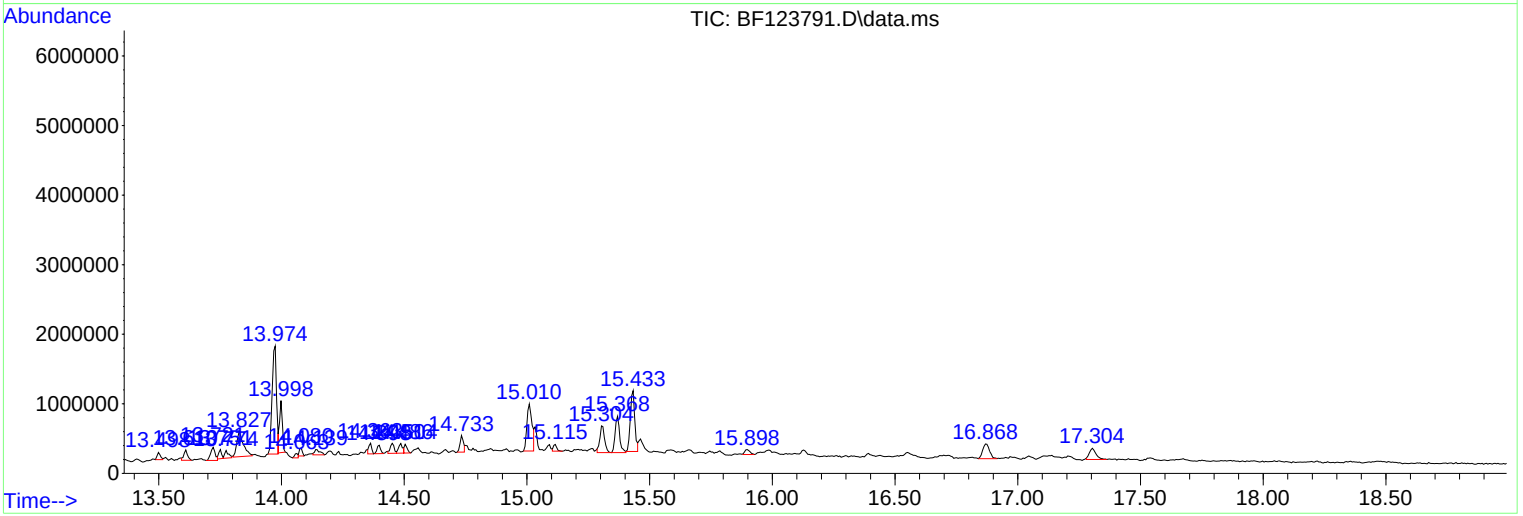
**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.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\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

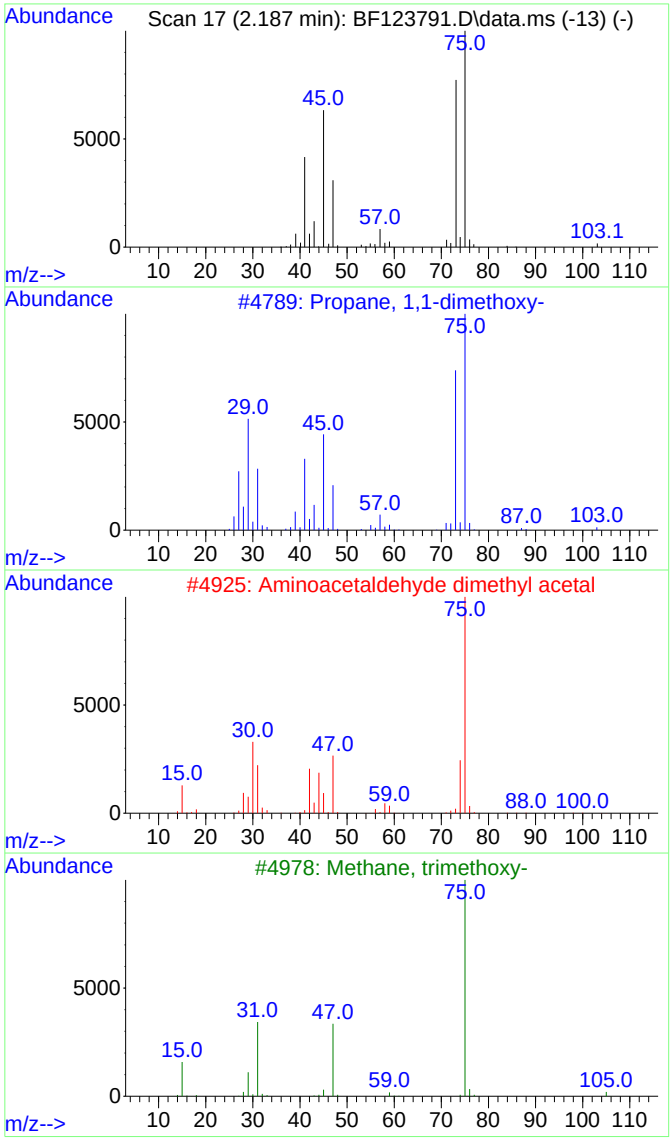
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

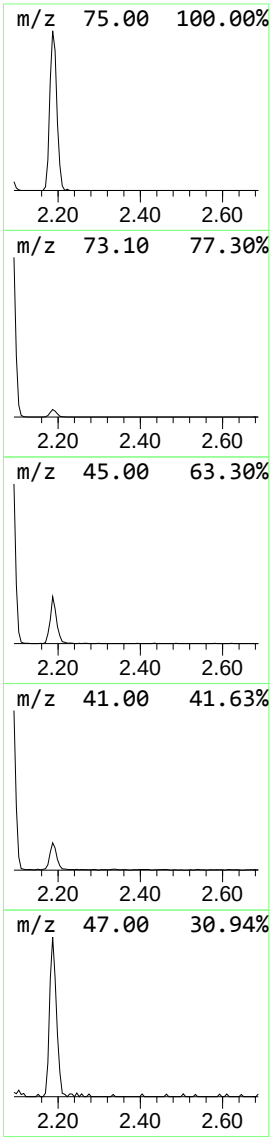
**********

Peak Number 1 Propane, 1,1-dimethoxy- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.187 | 4.27 ng | 328767 | 1,4-Dichlorobenzene-d4 | 6.804 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 1,1-dimethoxy- | 104 | C5H12O2 | 004744-10-9 | 83 |
| 2 | Aminoacetaldehyde dimethyl acetal | 105 | C4H11NO2 | 022483-09-6 | 33 |
| 3 | Methane, trimethoxy- | 106 | C4H10O3 | 000149-73-5 | 28 |
| 4 | Acetic acid, dimethoxy-, methyl ... | 134 | C5H10O4 | 000089-91-8 | 28 |
| 5 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 12 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

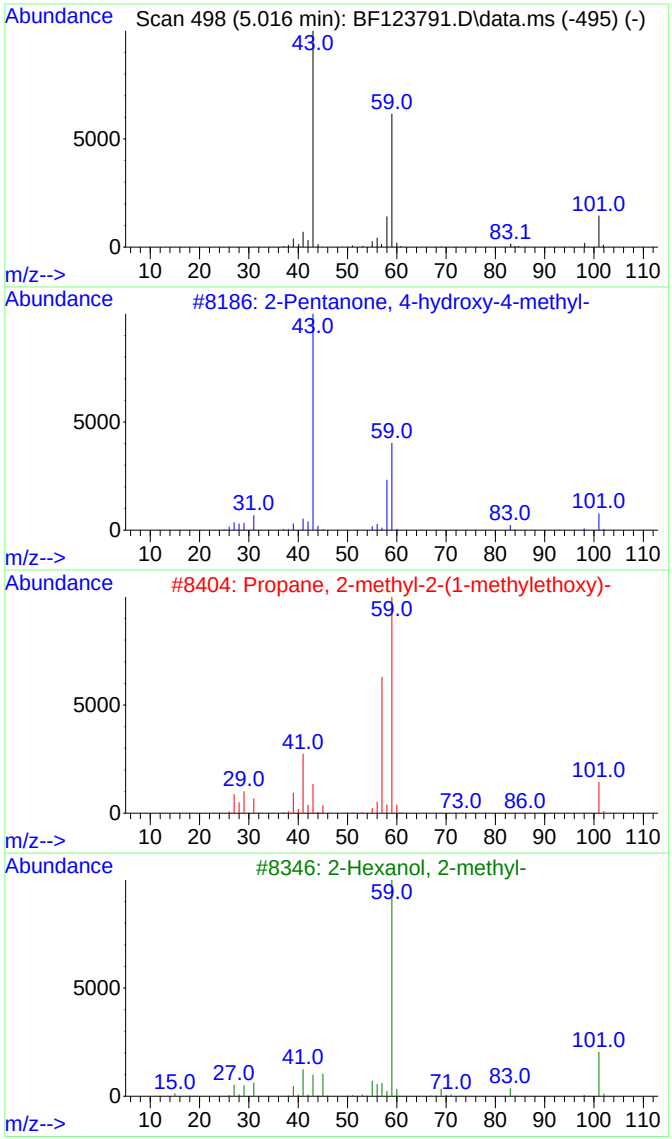
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

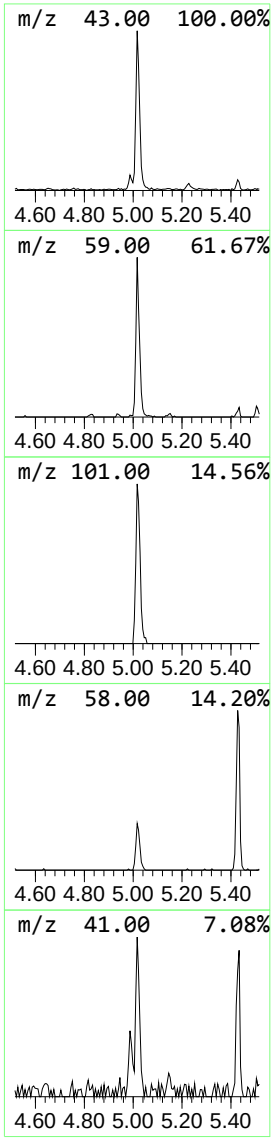
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.016 | 2.99 ng | 230359 | 1,4-Dichlorobenzene-d4 | 6.804 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 42 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 33 |
| 4 | 3-Octanol | 130 | C8H18O | 000589-98-0 | 33 |
| 5 | 3-Pentanol | 88 | C5H12O | 000584-02-1 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

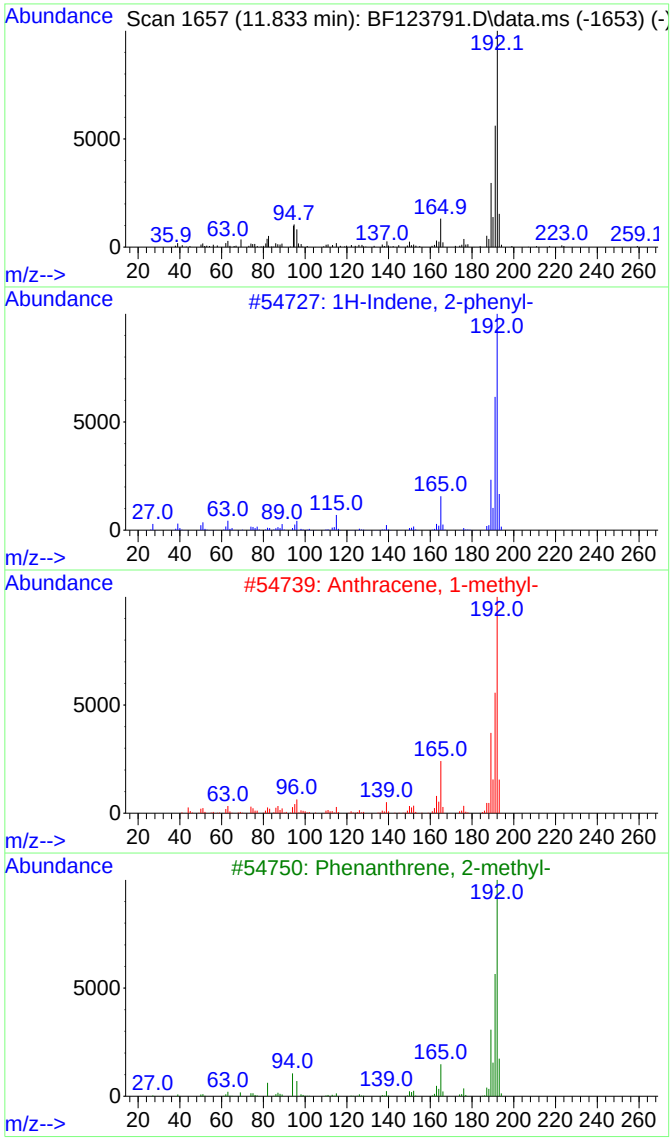
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

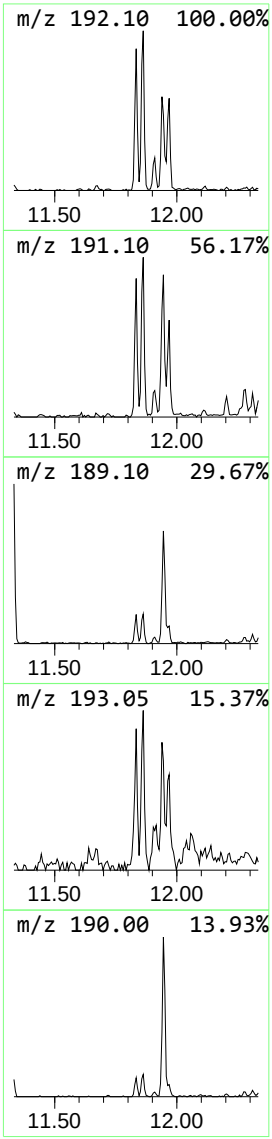
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 1H-Indene, 2-phenyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.833 | 2.31 ng | 198996 | Phenanthrene-d10 | 11.333 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 93 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 92 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

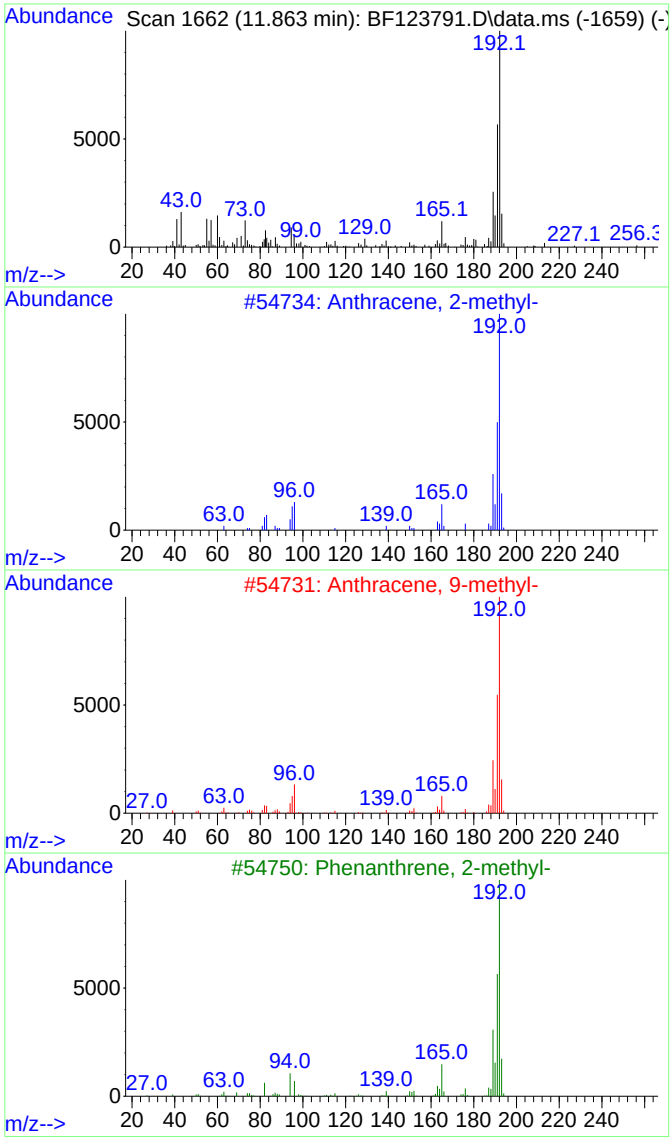
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

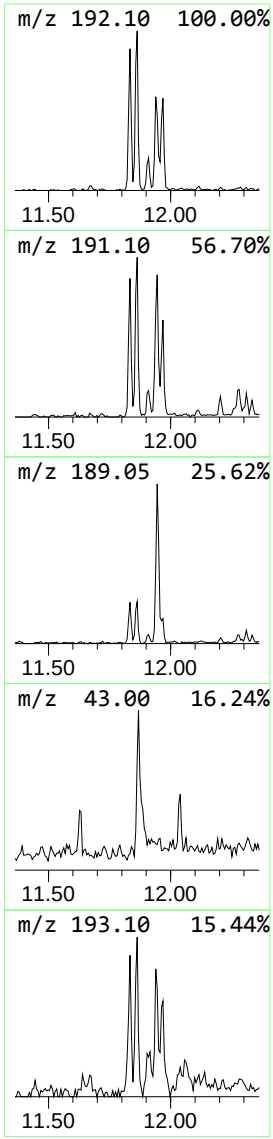
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.863 | 4.10 ng | 353567 | Phenanthrene-d10 | 11.333 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 90 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 90 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 89 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 89 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

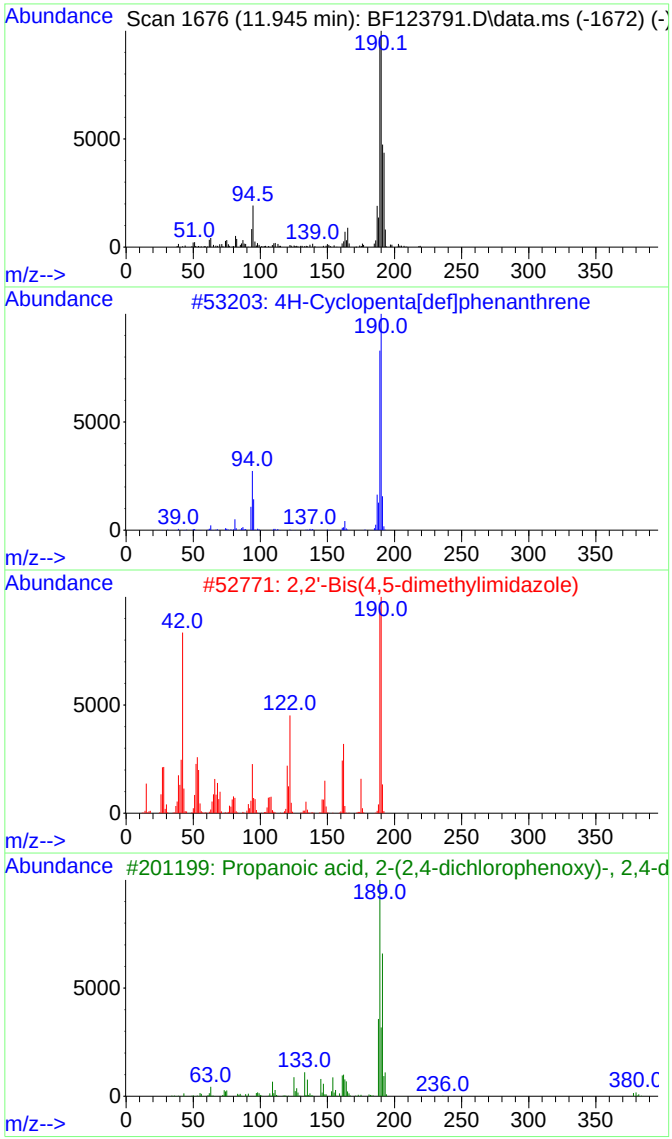
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

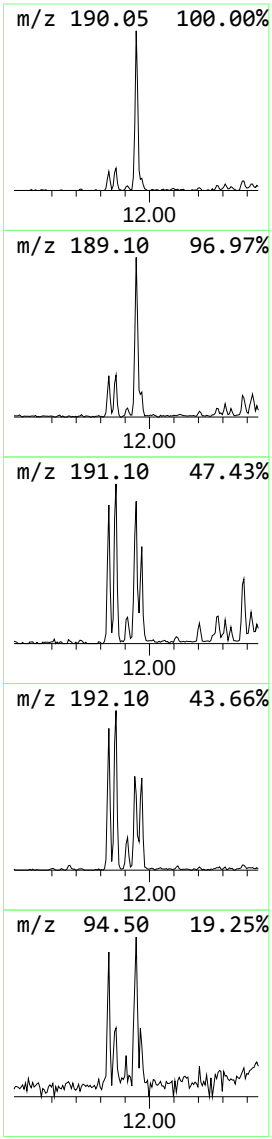
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.945 | 4.32 ng | 372384 | Phenanthrene-d10 | 11.333 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 40 |
| 3 | Propanoic acid, 2-(2,4-dichlorop... | 378 | C15H10Cl4O3 | 284488-02-4 | 23 |
| 4 | 1-Aminocyclopentanecarboxylic ac... | 389 | C20H36ClNO4 | 1000329-17-2 | 16 |
| 5 | Cyclohexanone, 2-(2-furanylmethy... | 190 | C12H14O2 | 056053-07-7 | 14 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

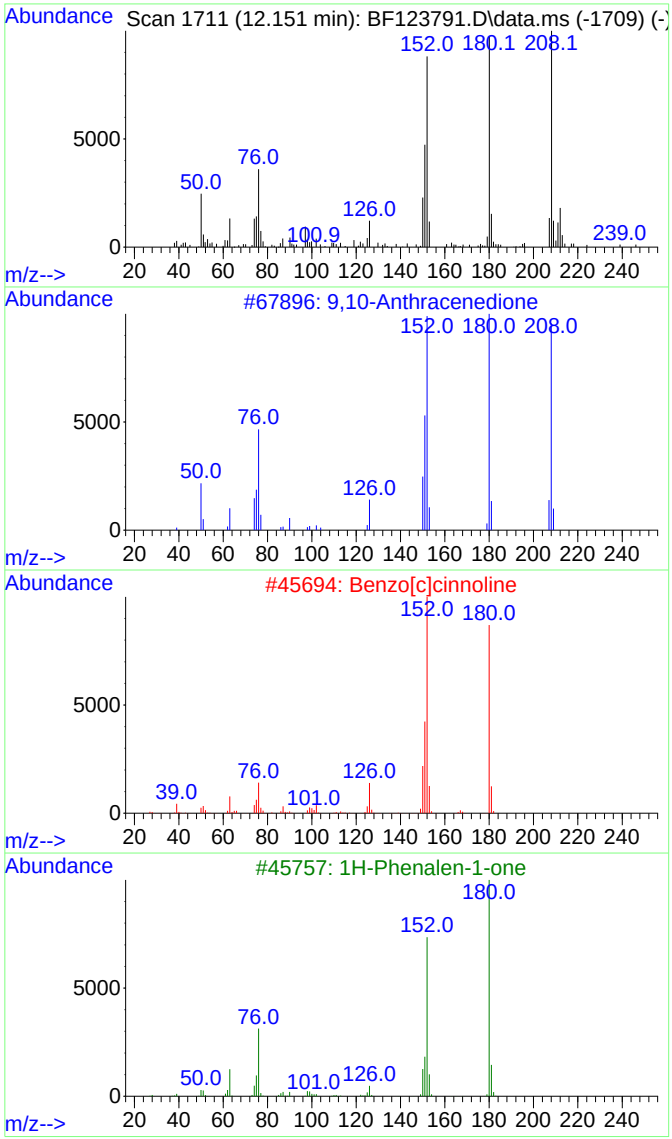
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

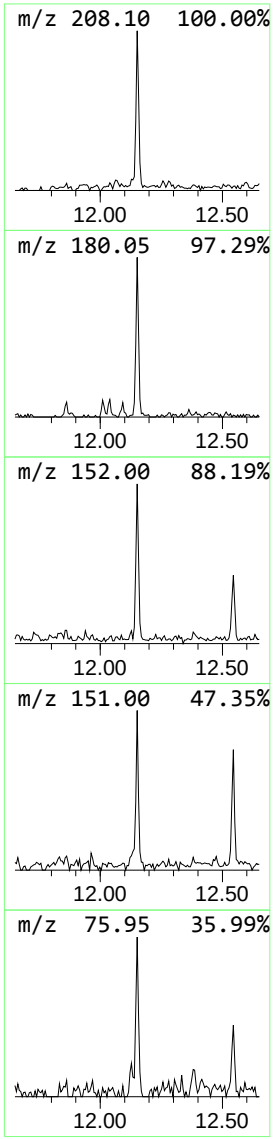
**********

Peak Number 6 9,10-Anthracenedione Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.151 | 2.28 ng | 196420 | Phenanthrene-d10 | 11.333 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98 |
| 2 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 78 |
| 3 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 70 |
| 4 | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 60 |
| 5 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 58 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

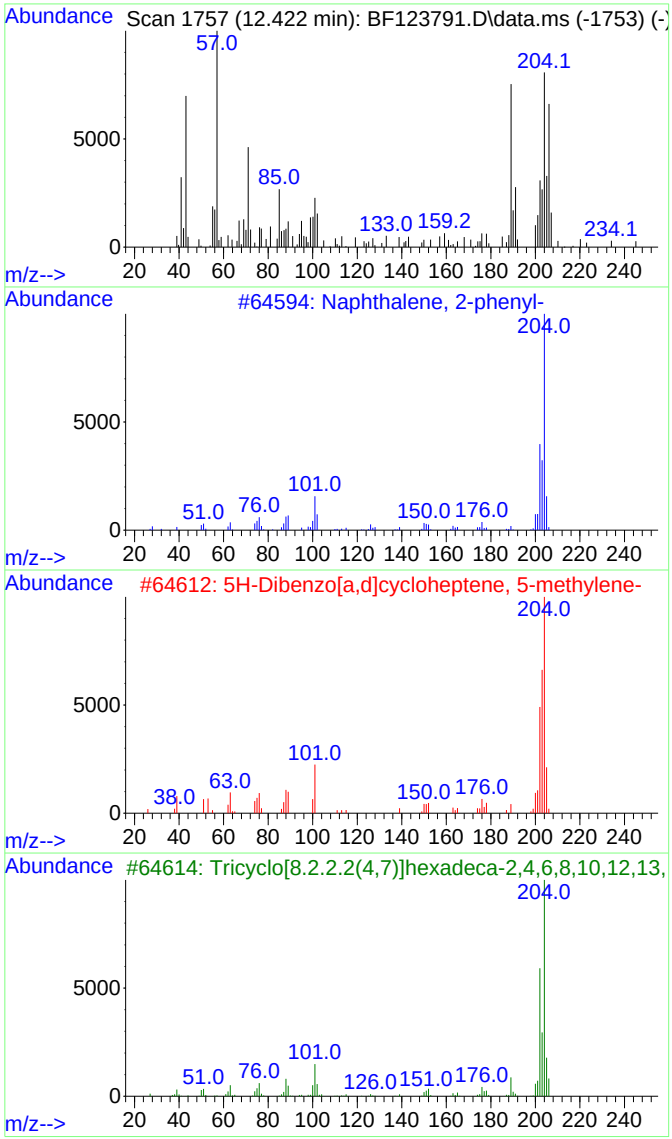
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

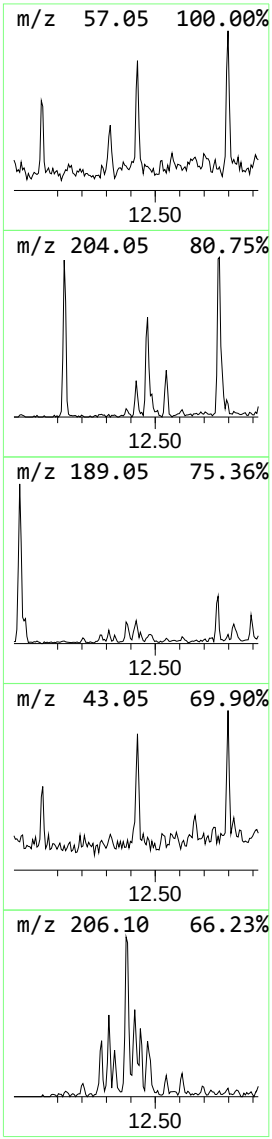
**********

Peak Number 7 unknown12.422 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.422 | 2.60 ng | 224398 | Phenanthrene-d10 | 11.333 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 38 |
| 2 | 5H-Dibenzo[a,d]cycloheptene, 5-m... | 204 | C16H12 | 002975-79-3 | 35 |
| 3 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 30 |
| 4 | Pyrimidine, 2-chloro-4-methyl-6-... | 204 | C11H9ClN2 | 032785-40-3 | 25 |
| 5 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 22 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

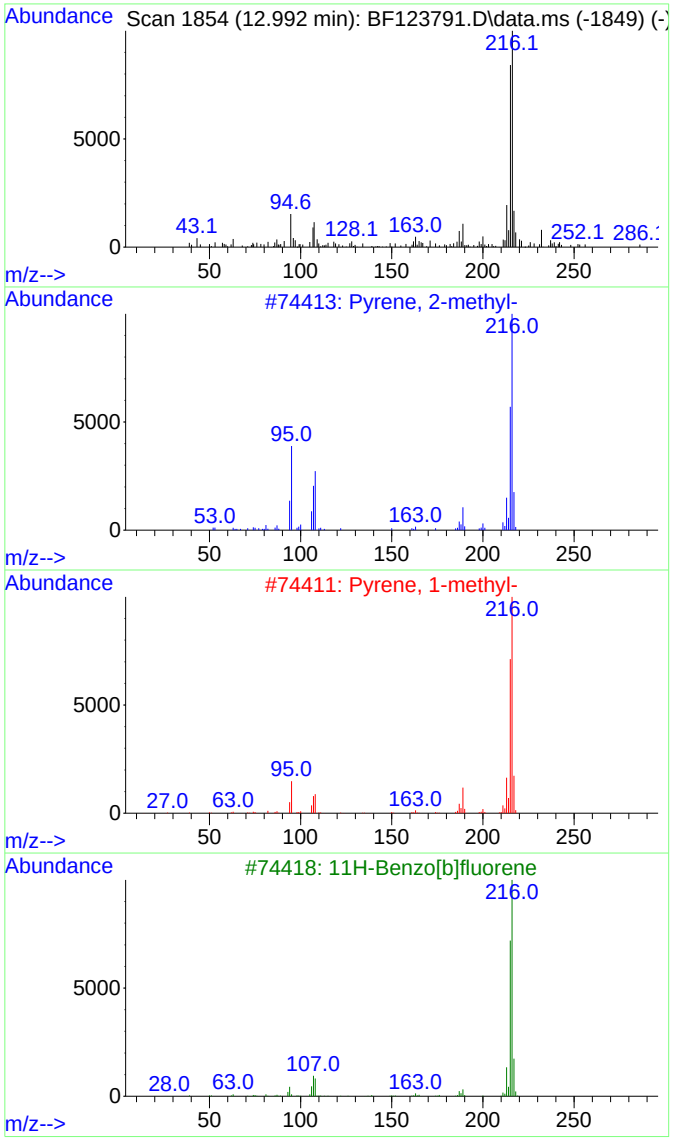
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

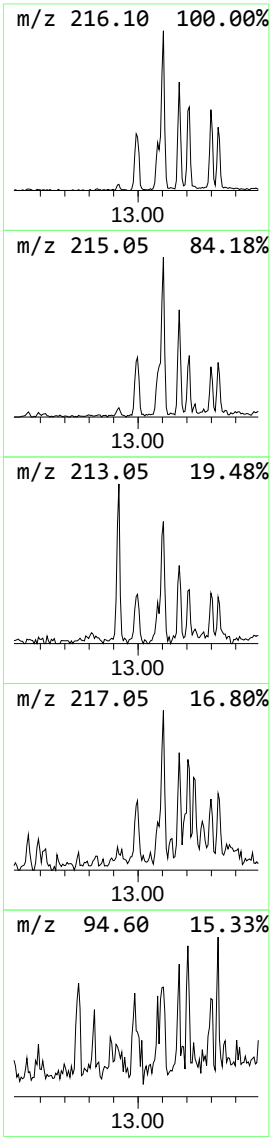
**********

Peak Number 8 Pyrene, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.992 | 2.01 ng | 196917 | Chrysene-d12 | 13.974 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 95 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 87 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |



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Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

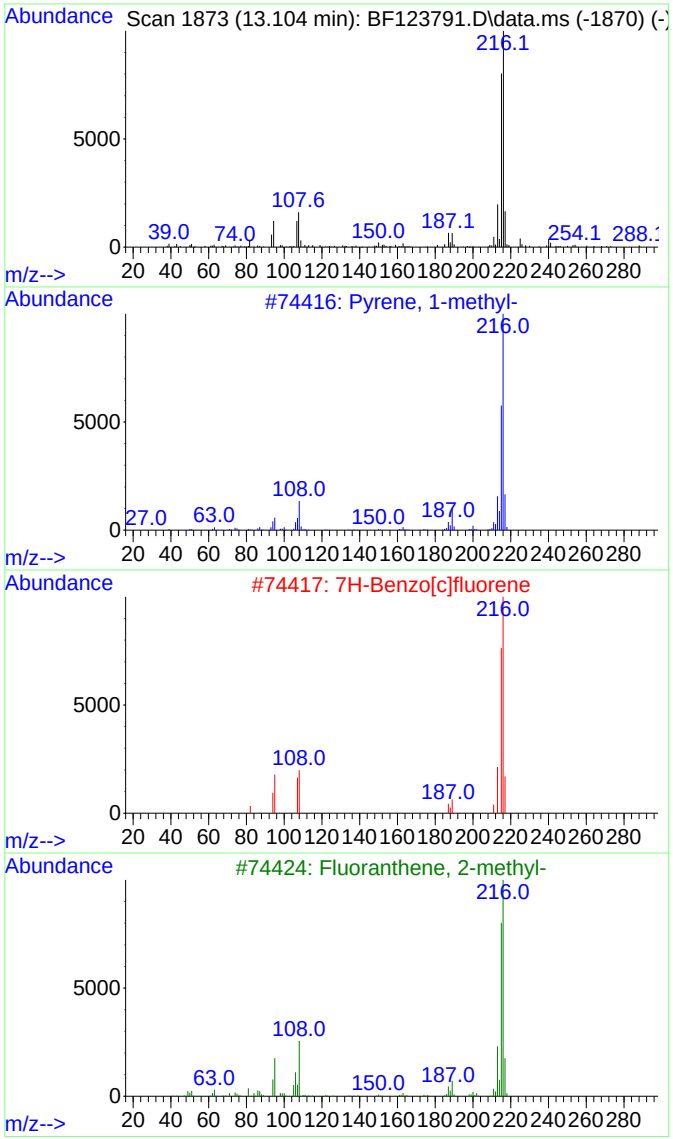
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

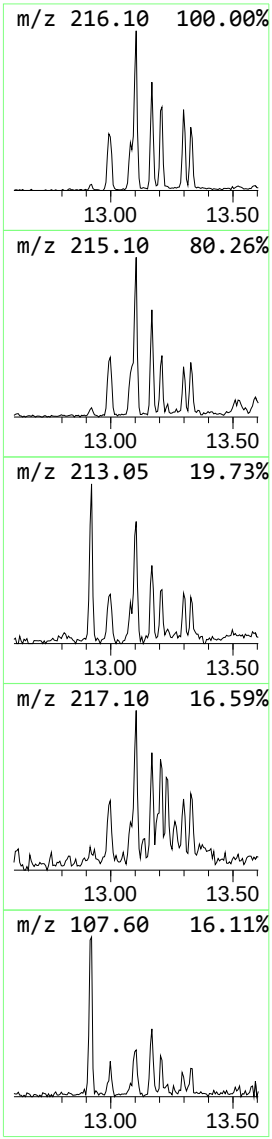
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Pyrene, 1-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.104 | 2.76 ng | 269596 | Chrysene-d12 | 13.974 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 83 |
| 2 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 81 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 76 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 72 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

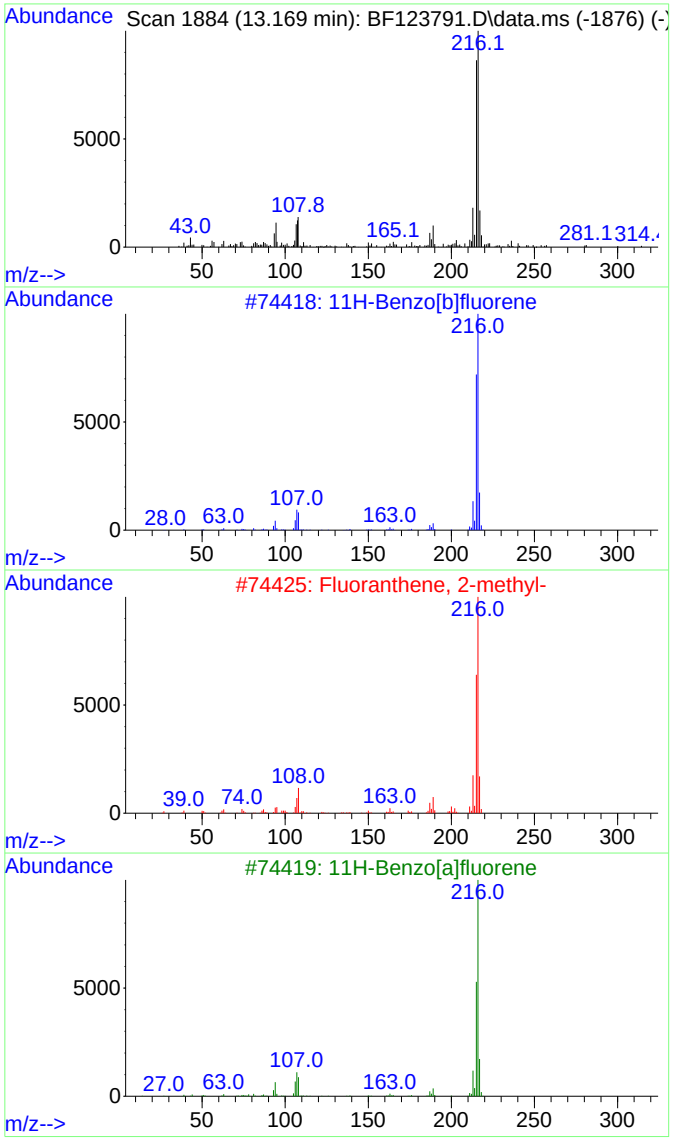
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

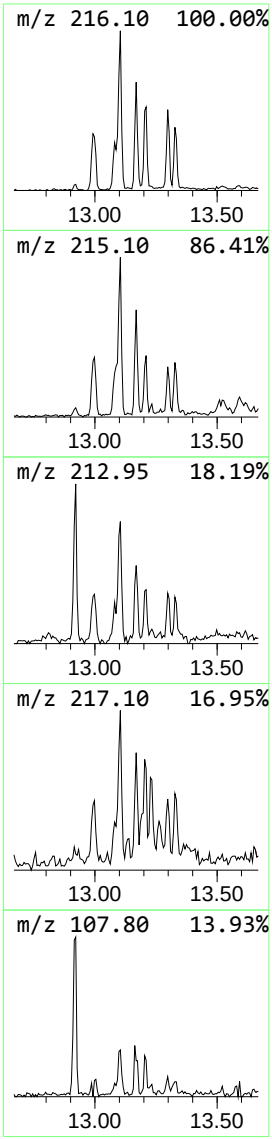
**********

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.169 | 3.46 ng | 338243 | Chrysene-d12 | 13.974 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 89 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 86 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

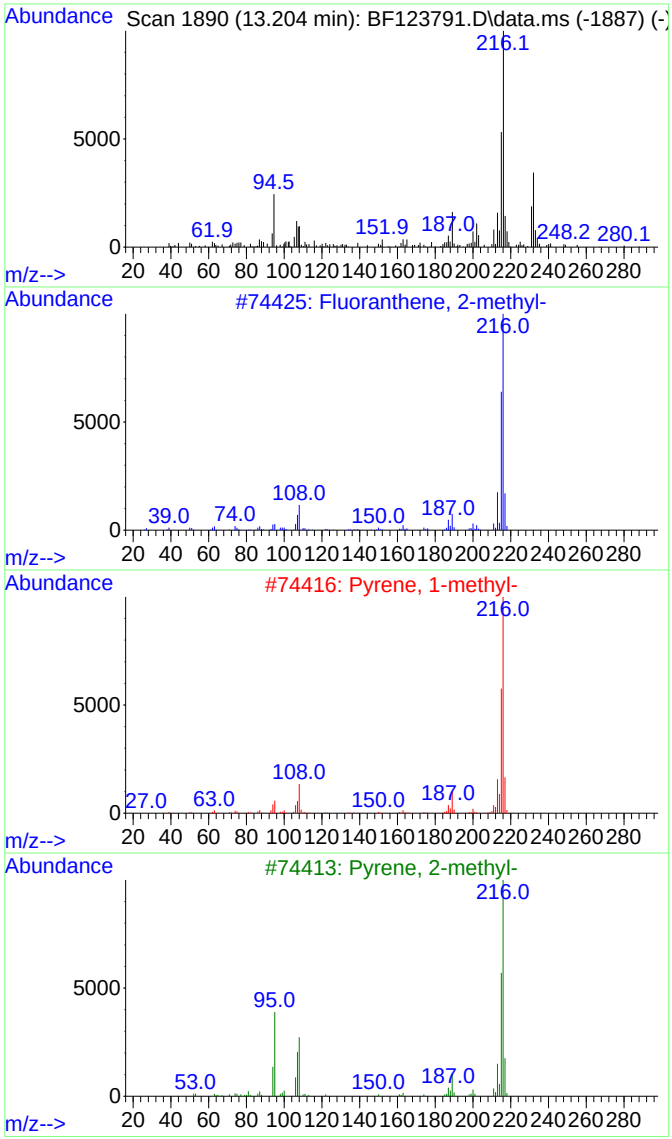
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

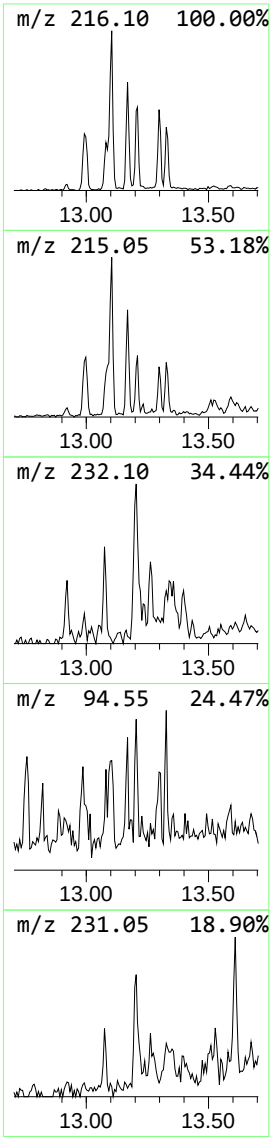
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 Fluoranthene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.204 | 2.01 ng | 196368 | Chrysene-d12 | 13.974 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 70 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 70 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 58 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 58 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

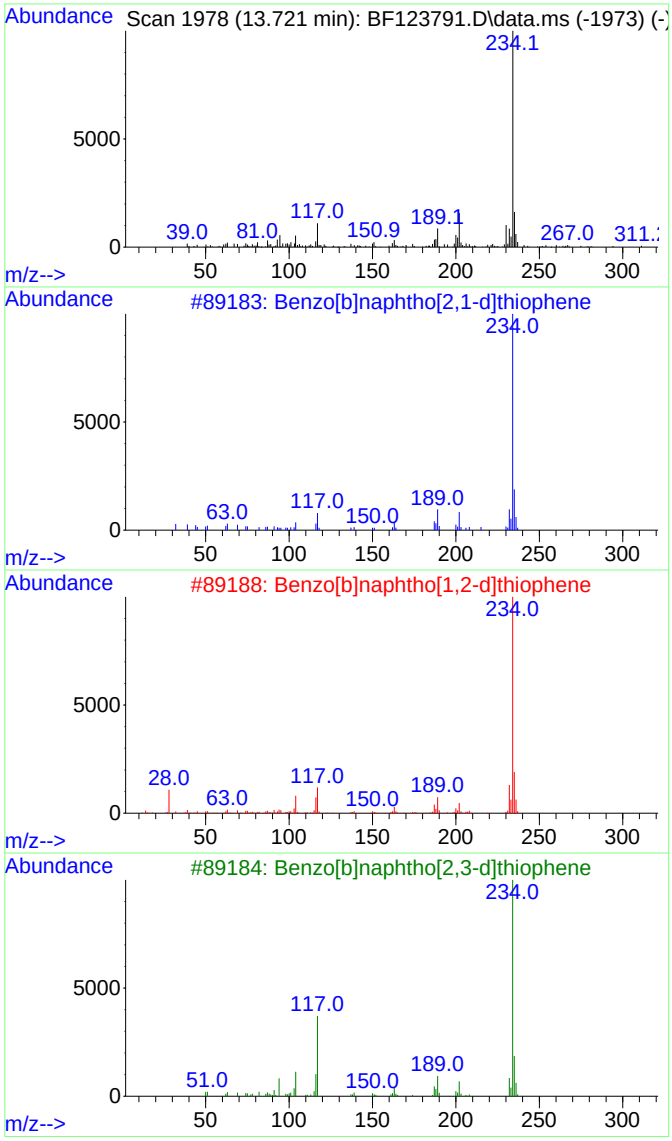
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

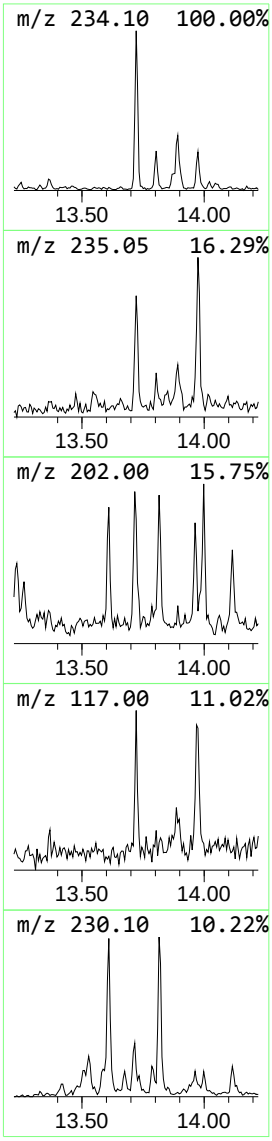
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.721 | 2.56 ng | 250059 | Chrysene-d12 | 13.974 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 96 |
| 2 | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 91 |
| 3 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 83 |
| 4 | Anthra(2,3-b)thiophene | 234 | C16H10S | 022108-55-0 | 81 |
| 5 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 80 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

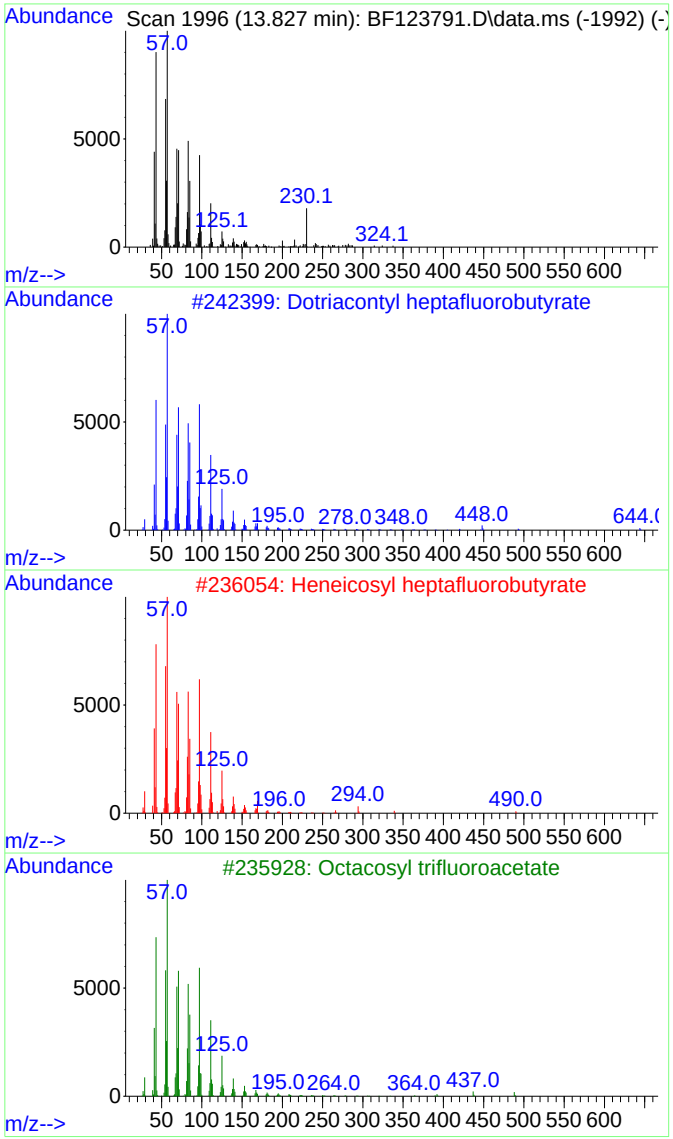
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

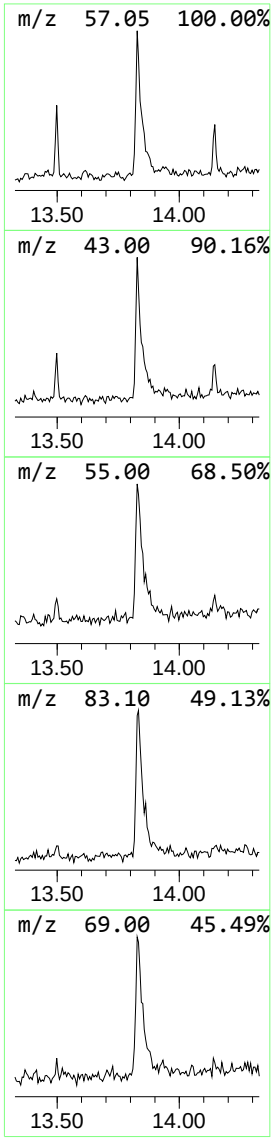
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 Dotriacontyl heptafluorobut... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.827 | 6.87 ng | 671579 | Chrysene-d12 | 13.974 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dotriacontyl heptafluorobutyrate | 662 | C36H65F7O2 | 1000351-84-2 | 91 |
| 2 | Heneicosyl heptafluorobutyrate | 508 | C25H43F7O2 | 1000351-83-8 | 91 |
| 3 | Octacosyl trifluoroacetate | 506 | C30H57F3O2 | 1000351-74-9 | 91 |
| 4 | Hexacosyl trifluoroacetate | 478 | C28H53F3O2 | 1000351-75-0 | 91 |
| 5 | Triacontyl acetate | 480 | C32H64O2 | 041755-58-2 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

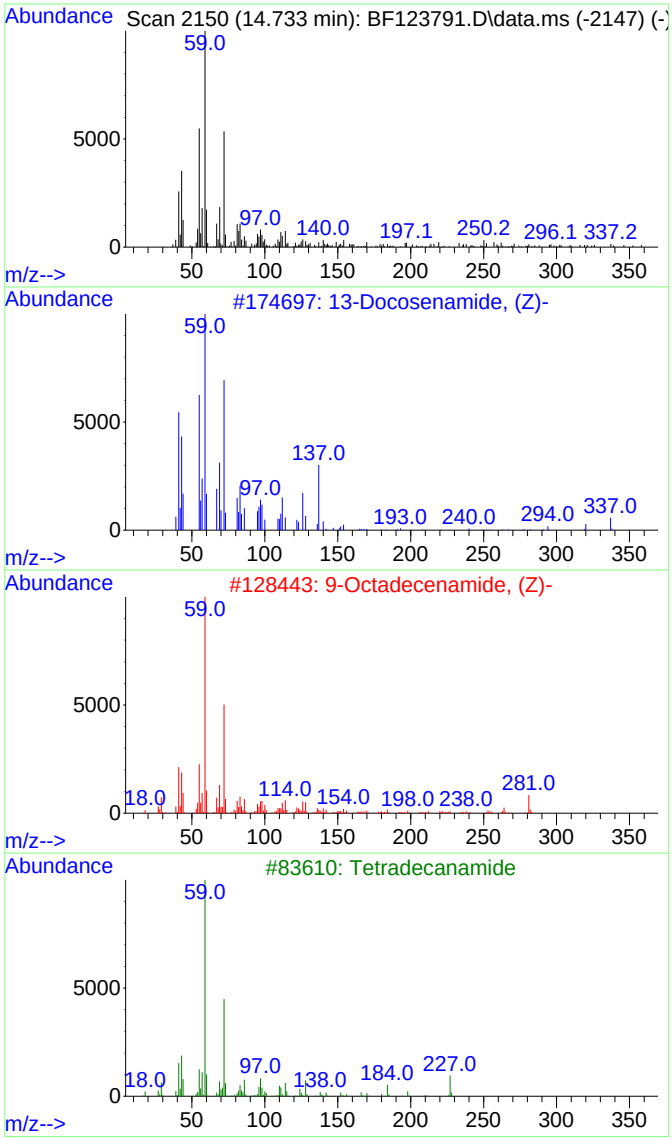
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

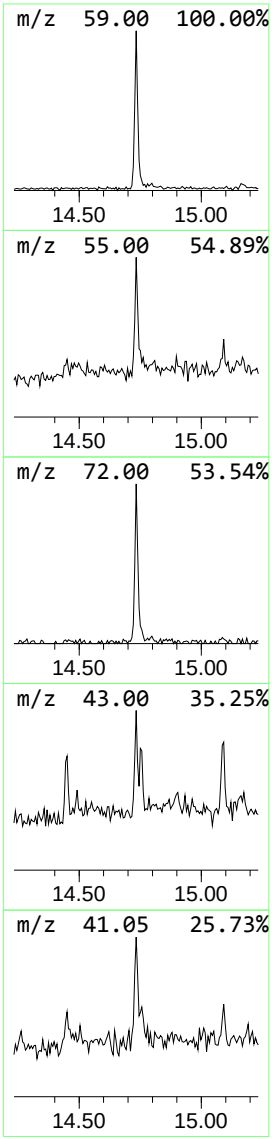
**********

Peak Number 14 13-Docosenamide, (Z)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.733 | 4.23 ng | 233317 | Perylene-d12 | 15.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 13-Docosenamide, (Z)- | 337 | C22H43NO | 000112-84-5 | 90 |
| 2 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 86 |
| 3 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 78 |
| 4 | Pentadecanamide, 15-bromo- | 319 | C15H30BrNO | 1000163-86-1 | 50 |
| 5 | Propanol, [(butoxymethylethoxy)m... | 248 | C13H28O4 | 055934-93-5 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

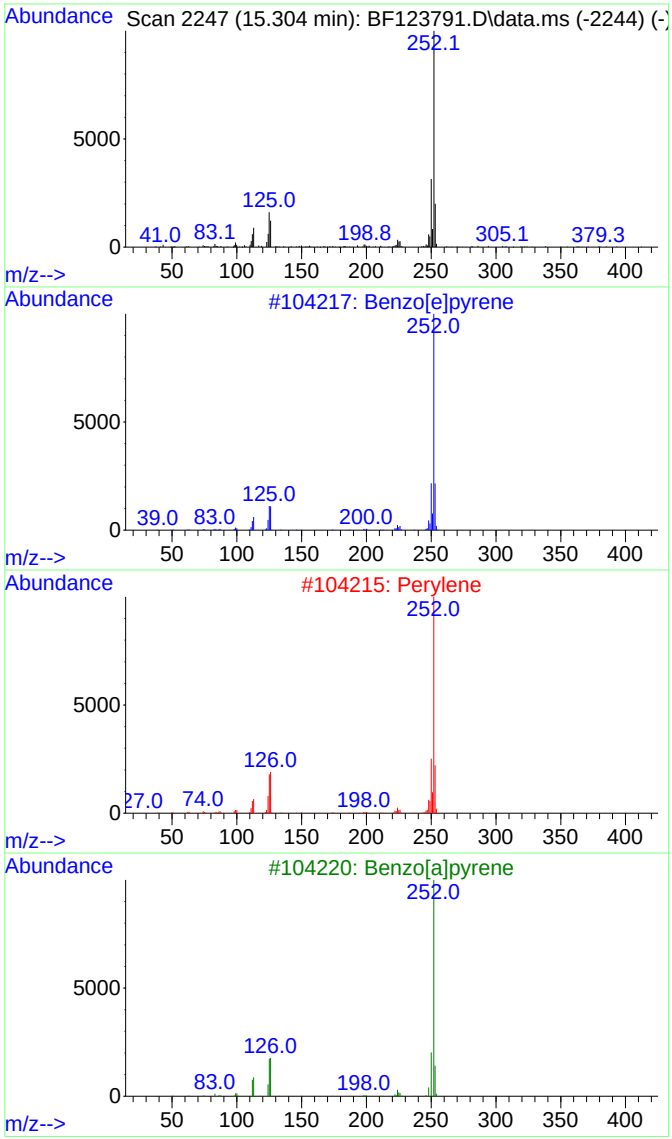
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

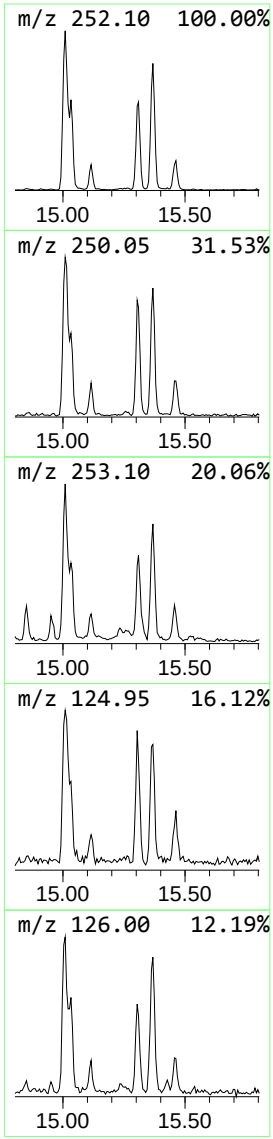
**********

Peak Number 15 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.304 | 9.19 ng | 506335 | Perylene-d12 | 15.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 97 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 4 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 81 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050321\
Data File : BF123791.D
Acq On : 3 May 2021 21:47
Operator : JU/CG
Sample : M2227-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-2-1-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042721.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 |
| Propane, 1,1-di... | 2.187 | 4.3 | ng | 328767 | 1 | 6.804 | 1540890 | 20.0 |
| 2-Pentanone, 4-... | 5.016 | 3.0 | ng | 230359 | 1 | 6.804 | 1540890 | 20.0 |
| 1H-Indene, 2-ph... | 11.833 | 2.3 | ng | 198996 | 4 | 11.333 | 1725030 | 20.0 |
| Anthracene, 2-m... | 11.863 | 4.1 | ng | 353567 | 4 | 11.333 | 1725030 | 20.0 |
| 4H-Cyclopenta[d... | 11.945 | 4.3 | ng | 372384 | 4 | 11.333 | 1725030 | 20.0 |
| 9,10-Anthracene... | 12.151 | 2.3 | ng | 196420 | 4 | 11.333 | 1725030 | 20.0 |
| unknown12.422 | 12.422 | 2.6 | ng | 224398 | 4 | 11.333 | 1725030 | 20.0 |
| Pyrene, 2-methyl- | 12.992 | 2.0 | ng | 196917 | 5 | 13.974 | 1956220 | 20.0 |
| Pyrene, 1-methyl- | 13.104 | 2.8 | ng | 269596 | 5 | 13.974 | 1956220 | 20.0 |
| 11H-Benzo[b]flu... | 13.169 | 3.5 | ng | 338243 | 5 | 13.974 | 1956220 | 20.0 |
| Fluoranthene, 2... | 13.204 | 2.0 | ng | 196368 | 5 | 13.974 | 1956220 | 20.0 |
| Benzo[b]naphtho... | 13.721 | 2.6 | ng | 250059 | 5 | 13.974 | 1956220 | 20.0 |
| Dotriacontyl he... | 13.827 | 6.9 | ng | 671579 | 5 | 13.974 | 1956220 | 20.0 |
| 13-Docosenamide... | 14.733 | 4.2 | ng | 233317 | 6 | 15.433 | 1102070 | 20.0 |
| Benzo[e]pyrene | 15.304 | 9.2 | ng | 506335 | 6 | 15.433 | 1102070 | 20.0 |