LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-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-BF051421.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF123998.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.152 | 4 | 11 | 16 | rVB | 92349 | 119081 | 20.23% | 1.496% |
| 2 | 5.104 | 510 | 513 | 517 | rVB2 | 11437 | 11477 | 1.95% | 0.144% |
| 3 | 5.510 | 578 | 582 | 586 | rBV | 312095 | 265058 | 45.04% | 3.329% |
| 4 | 6.516 | 749 | 753 | 760 | rBV | 347480 | 276960 | 47.06% | 3.478% |
| 5 | 6.904 | 815 | 819 | 822 | rBV | 413839 | 305569 | 51.92% | 3.838% |
| 6 | 7.457 | 910 | 913 | 917 | rBV | 217109 | 182467 | 31.00% | 2.292% |
| 7 | 8.186 | 1034 | 1037 | 1040 | rBV | 530780 | 398898 | 67.78% | 5.010% |
| 8 | 8.210 | 1040 | 1041 | 1044 | rVB | 26453 | 13121 | 2.23% | 0.165% |
| 9 | 9.263 | 1216 | 1220 | 1223 | rBV | 369877 | 300272 | 51.02% | 3.771% |
| 10 | 9.375 | 1235 | 1239 | 1248 | rVB3 | 29771 | 31605 | 5.37% | 0.397% |
| 11 | 9.651 | 1284 | 1286 | 1290 | rBV | 38044 | 34124 | 5.80% | 0.429% |
| 12 | 9.804 | 1309 | 1312 | 1315 | rBV | 25287 | 20470 | 3.48% | 0.257% |
| 13 | 9.945 | 1332 | 1336 | 1339 | rBV | 500809 | 417589 | 70.95% | 5.244% |
| 14 | 9.975 | 1339 | 1341 | 1346 | rVB | 15334 | 14405 | 2.45% | 0.181% |
| 15 | 10.492 | 1425 | 1429 | 1432 | rBV4 | 12044 | 14109 | 2.40% | 0.177% |
| 16 | 10.727 | 1465 | 1469 | 1474 | rBV | 203604 | 176407 | 29.97% | 2.215% |
| 17 | 10.857 | 1487 | 1491 | 1494 | rVB4 | 10617 | 15507 | 2.63% | 0.195% |
| 18 | 11.186 | 1546 | 1547 | 1551 | rVV4 | 9803 | 10653 | 1.81% | 0.134% |
| 19 | 11.233 | 1551 | 1555 | 1558 | rVB5 | 11932 | 14662 | 2.49% | 0.184% |
| 20 | 11.292 | 1558 | 1565 | 1568 | rBV7 | 7994 | 18611 | 3.16% | 0.234% |
| 21 | 11.327 | 1568 | 1571 | 1574 | rVV3 | 13168 | 13498 | 2.29% | 0.170% |
| 22 | 11.427 | 1585 | 1588 | 1591 | rBV | 427861 | 409760 | 69.62% | 5.146% |
| 23 | 11.451 | 1591 | 1592 | 1597 | rVV | 195005 | 136483 | 23.19% | 1.714% |
| 24 | 11.504 | 1597 | 1601 | 1605 | rVV | 45453 | 43572 | 7.40% | 0.547% |
| 25 | 11.657 | 1622 | 1627 | 1629 | rBV5 | 12190 | 14017 | 2.38% | 0.176% |
| 26 | 11.727 | 1634 | 1639 | 1641 | rVV5 | 15147 | 19316 | 3.28% | 0.243% |
| 27 | 11.763 | 1641 | 1645 | 1651 | rVB6 | 16167 | 20101 | 3.42% | 0.252% |
| 28 | 11.933 | 1671 | 1674 | 1675 | rVV | 36645 | 32121 | 5.46% | 0.403% |
| 29 | 11.957 | 1675 | 1678 | 1682 | rVV2 | 57443 | 63630 | 10.81% | 0.799% |
| 30 | 12.004 | 1683 | 1686 | 1689 | rVV2 | 18244 | 23252 | 3.95% | 0.292% |
| 31 | 12.045 | 1689 | 1693 | 1695 | rVV | 63037 | 74408 | 12.64% | 0.934% |
| 32 | 12.063 | 1695 | 1696 | 1701 | rVB2 | 38688 | 31815 | 5.41% | 0.400% |
| 33 | 12.163 | 1711 | 1713 | 1716 | rVB4 | 16442 | 12932 | 2.20% | 0.162% |
| 34 | 12.198 | 1716 | 1719 | 1721 | rBV3 | 10030 | 11574 | 1.97% | 0.145% |
| 35 | 12.227 | 1721 | 1724 | 1726 | rVV2 | 31604 | 28043 | 4.76% | 0.352% |
| 36 | 12.245 | 1726 | 1727 | 1731 | rVB4 | 21280 | 21338 | 3.63% | 0.268% |

LSC Area Percent Report

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Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-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-BF051421.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 12.380 | 1747 | 1750 | 1753 | rVV4 | 19663 | 19133 | 3.25% | 0.240% |
| 38 | 12.410 | 1753 | 1755 | 1757 | rVV2 | 11412 | 12700 | 2.16% | 0.159% |
| 39 | 12.480 | 1764 | 1767 | 1770 | rVV2 | 49838 | 47892 | 8.14% | 0.601% |
| 40 | 12.516 | 1770 | 1773 | 1776 | rVV5 | 25144 | 31430 | 5.34% | 0.395% |
| 41 | 12.563 | 1779 | 1781 | 1787 | rVB5 | 26384 | 32894 | 5.59% | 0.413% |
| 42 | 12.645 | 1792 | 1795 | 1800 | rBV | 276683 | 242069 | 41.13% | 3.040% |
| 43 | 12.739 | 1808 | 1811 | 1813 | rBV | 29034 | 28240 | 4.80% | 0.355% |
| 44 | 12.768 | 1813 | 1816 | 1818 | rBV3 | 12967 | 14707 | 2.50% | 0.185% |
| 45 | 12.804 | 1818 | 1822 | 1823 | rBV3 | 11054 | 12850 | 2.18% | 0.161% |
| 46 | 12.874 | 1828 | 1834 | 1837 | rBV | 379098 | 379601 | 64.50% | 4.767% |
| 47 | 12.927 | 1840 | 1843 | 1847 | rVB5 | 23228 | 34230 | 5.82% | 0.430% |
| 48 | 12.986 | 1847 | 1853 | 1855 | rBV7 | 18780 | 30038 | 5.10% | 0.377% |
| 49 | 13.010 | 1855 | 1857 | 1864 | rVB | 289667 | 303107 | 51.50% | 3.807% |
| 50 | 13.092 | 1864 | 1871 | 1875 | rBV5 | 43372 | 78413 | 13.32% | 0.985% |
| 51 | 13.198 | 1882 | 1889 | 1892 | rVB3 | 53848 | 101461 | 17.24% | 1.274% |
| 52 | 13.245 | 1895 | 1897 | 1898 | rBV2 | 14686 | 12436 | 2.11% | 0.156% |
| 53 | 13.268 | 1898 | 1901 | 1903 | rVB3 | 21199 | 18702 | 3.18% | 0.235% |
| 54 | 13.304 | 1903 | 1907 | 1910 | rBV3 | 73630 | 61907 | 10.52% | 0.777% |
| 55 | 13.368 | 1915 | 1918 | 1920 | rVV4 | 10842 | 16344 | 2.78% | 0.205% |
| 56 | 13.398 | 1920 | 1923 | 1926 | rVV | 56868 | 58241 | 9.90% | 0.731% |
| 57 | 13.427 | 1926 | 1928 | 1931 | rVV2 | 60002 | 52173 | 8.86% | 0.655% |
| 58 | 13.463 | 1931 | 1934 | 1936 | rVV4 | 11727 | 15473 | 2.63% | 0.194% |
| 59 | 13.521 | 1938 | 1944 | 1946 | rVB7 | 11913 | 19785 | 3.36% | 0.248% |
| 60 | 13.580 | 1951 | 1954 | 1956 | rBV4 | 14357 | 19778 | 3.36% | 0.248% |
| 61 | 13.610 | 1957 | 1959 | 1964 | rVB6 | 15497 | 18059 | 3.07% | 0.227% |
| 62 | 13.651 | 1964 | 1966 | 1969 | rVB4 | 16774 | 15571 | 2.65% | 0.196% |
| 63 | 13.704 | 1971 | 1975 | 1981 | rVV4 | 24998 | 40650 | 6.91% | 0.511% |
| 64 | 13.821 | 1991 | 1995 | 1997 | rBV3 | 26578 | 39181 | 6.66% | 0.492% |
| 65 | 13.851 | 1997 | 2000 | 2002 | rVV | 26150 | 22135 | 3.76% | 0.278% |
| 66 | 13.868 | 2002 | 2003 | 2007 | rVV2 | 34700 | 35319 | 6.00% | 0.444% |
| 67 | 13.915 | 2007 | 2011 | 2015 | rVB4 | 46228 | 58028 | 9.86% | 0.729% |
| 68 | 14.068 | 2030 | 2037 | 2040 | rBV2 | 453641 | 588534 | 100.00% | 7.391% |
| 69 | 14.098 | 2040 | 2042 | 2048 | rVV | 175735 | 166700 | 28.32% | 2.094% |
| 70 | 14.157 | 2050 | 2052 | 2053 | rVV2 | 18492 | 15784 | 2.68% | 0.198% |
| 71 | 14.174 | 2053 | 2055 | 2058 | rVV | 51965 | 55231 | 9.38% | 0.694% |
| 72 | 14.210 | 2058 | 2061 | 2068 | rVV2 | 57146 | 88510 | 15.04% | 1.112% |
| 73 | 14.298 | 2072 | 2076 | 2079 | rBV5 | 18501 | 30934 | 5.26% | 0.388% |
| 74 | 14.327 | 2079 | 2081 | 2084 | rVB4 | 21195 | 18102 | 3.08% | 0.227% |
| 75 | 14.421 | 2095 | 2097 | 2099 | rBV2 | 26480 | 23025 | 3.91% | 0.289% |
| 76 | 14.457 | 2099 | 2103 | 2107 | rVV3 | 56953 | 70233 | 11.93% | 0.882% |

LSC Area Percent Report

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Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-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-BF051421.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 14.492 | 2107 | 2109 | 2112 | rVB2 | 42427 | 34648 | 5.89% | 0.435% |
| 78 | 14.545 | 2112 | 2118 | 2121 | rBV6 | 36475 | 66732 | 11.34% | 0.838% |
| 79 | 14.586 | 2122 | 2125 | 2126 | rVV3 | 28231 | 25561 | 4.34% | 0.321% |
| 80 | 14.604 | 2126 | 2128 | 2130 | rVB2 | 29641 | 26161 | 4.45% | 0.329% |
| 81 | 14.639 | 2133 | 2134 | 2136 | rBV2 | 13542 | 11880 | 2.02% | 0.149% |
| 82 | 14.798 | 2158 | 2161 | 2167 | rVB8 | 18912 | 25531 | 4.34% | 0.321% |
| 83 | 14.851 | 2168 | 2170 | 2174 | rVV5 | 9858 | 12758 | 2.17% | 0.160% |
| 84 | 14.968 | 2188 | 2190 | 2192 | rVB3 | 15535 | 13702 | 2.33% | 0.172% |
| 85 | 15.027 | 2198 | 2200 | 2203 | rVB4 | 15355 | 13121 | 2.23% | 0.165% |
| 86 | 15.127 | 2212 | 2217 | 2224 | rVB | 121136 | 247034 | 41.97% | 3.102% |
| 87 | 15.210 | 2228 | 2231 | 2233 | rBV4 | 12354 | 16589 | 2.82% | 0.208% |
| 88 | 15.233 | 2233 | 2235 | 2240 | rVB2 | 35017 | 38464 | 6.54% | 0.483% |
| 89 | 15.433 | 2266 | 2269 | 2276 | rVB | 94210 | 113320 | 19.25% | 1.423% |
| 90 | 15.498 | 2276 | 2280 | 2287 | rVB | 138133 | 168341 | 28.60% | 2.114% |
| 91 | 15.562 | 2287 | 2291 | 2295 | rBV | 191375 | 243249 | 41.33% | 3.055% |
| 92 | 15.598 | 2295 | 2297 | 2305 | rVB4 | 41031 | 54976 | 9.34% | 0.690% |
| 93 | 15.892 | 2344 | 2347 | 2351 | rVB6 | 10183 | 14904 | 2.53% | 0.187% |
| 94 | 16.057 | 2372 | 2375 | 2376 | rBV3 | 15644 | 11439 | 1.94% | 0.144% |
| 95 | 16.139 | 2386 | 2389 | 2393 | rVB6 | 12400 | 14580 | 2.48% | 0.183% |
| 96 | 16.904 | 2512 | 2519 | 2523 | rVB9 | 15250 | 38664 | 6.57% | 0.486% |
| 97 | 17.062 | 2541 | 2546 | 2557 | rVB3 | 53287 | 111745 | 18.99% | 1.403% |
| 98 | 17.151 | 2557 | 2561 | 2564 | rBV5 | 8567 | 14657 | 2.49% | 0.184% |
| 99 | 17.245 | 2574 | 2577 | 2583 | rVB8 | 10266 | 20119 | 3.42% | 0.253% |
| 100 | 17.515 | 2618 | 2623 | 2630 | rVB3 | 49622 | 97899 | 16.63% | 1.229% |

Sum of corrected areas: 7962579

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
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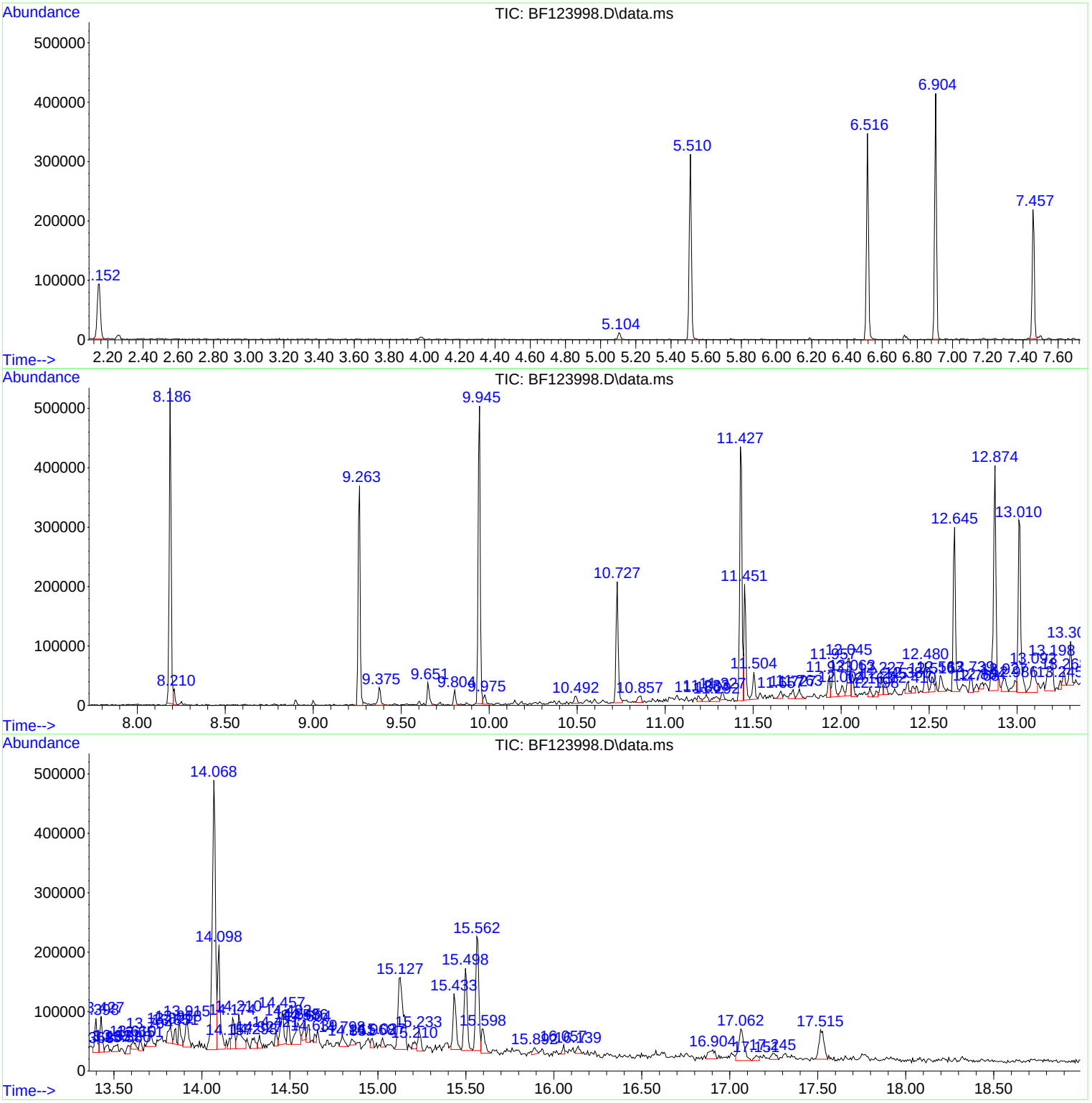
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.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\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

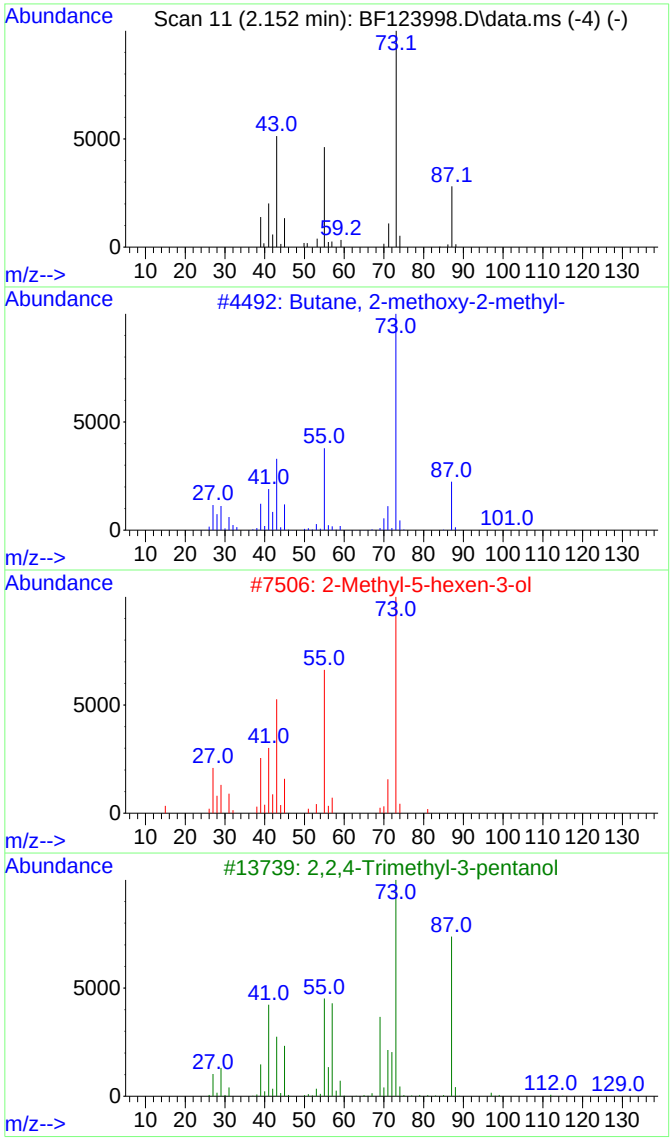
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

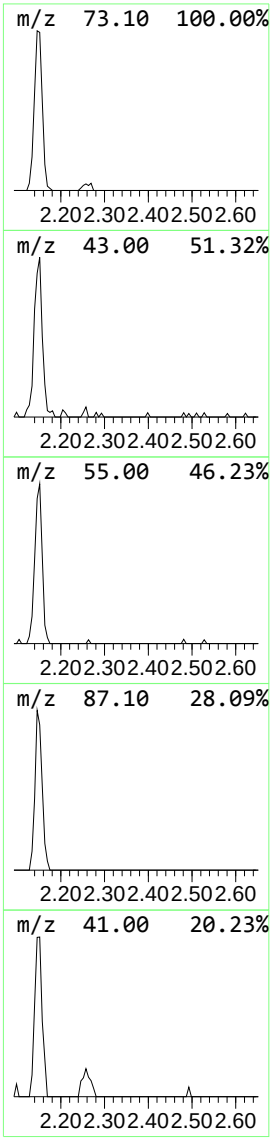
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.152 | 7.79 ng | 119081 | 1,4-Dichlorobenzene-d4 | 6.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | 2-Methyl-5-hexen-3-ol | 114 | C7H14O | 032815-70-6 | 40 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 16 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 9 |



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** TP-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

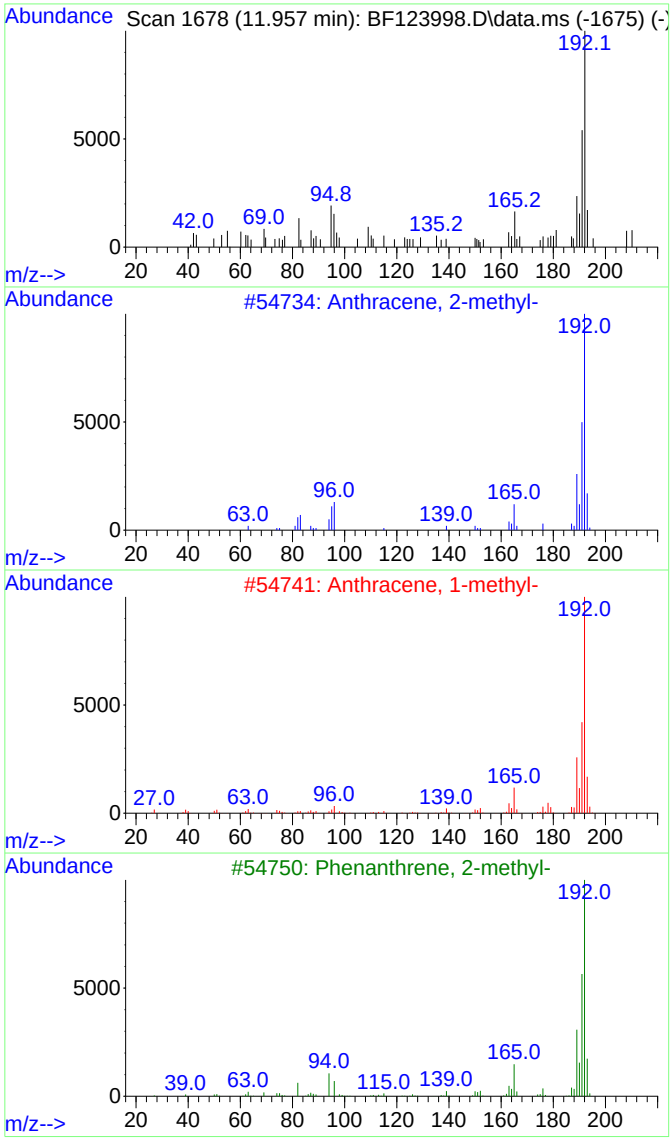
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

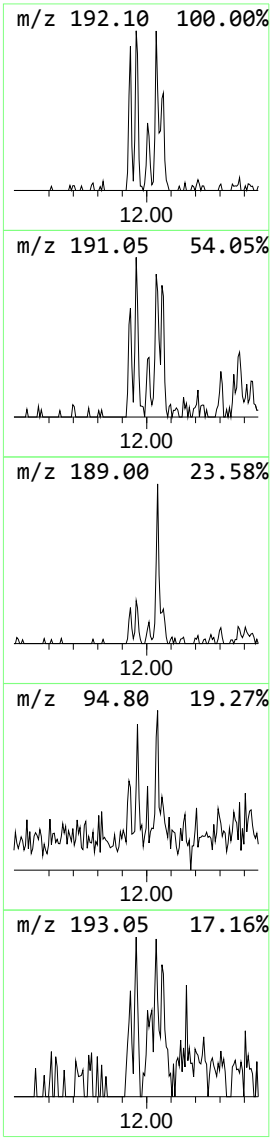
**********

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.957 | 3.11 ng | 63630 | Phenanthrene-d10 | 11.427 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 5 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

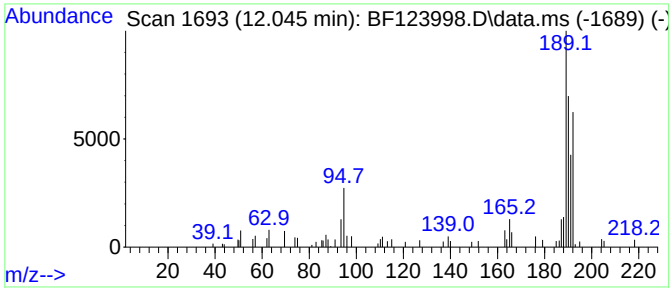
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

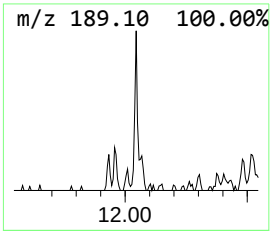
**********

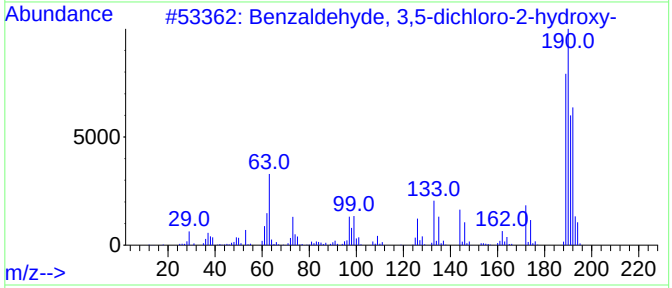
Peak Number 4 unknown12.045 Concentration Rank 3

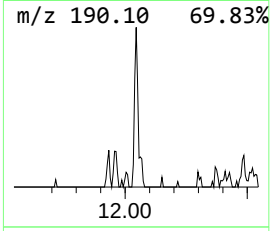
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.045 | 3.63 ng | 74408 | Phenanthrene-d10 | 11.427 |

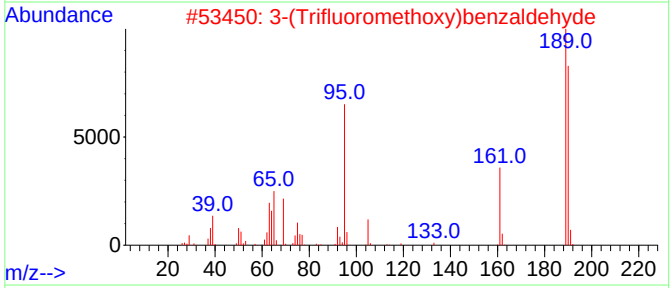
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 49 |
| 2 | 3-(Trifluoromethoxy)benzaldehyde | 190 | C8H5F3O2 | 052771-21-8 | 43 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 43 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 38 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 30 |

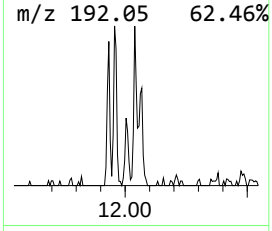


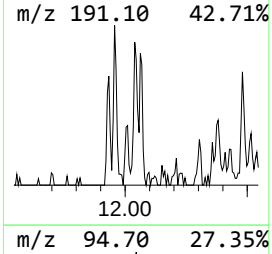



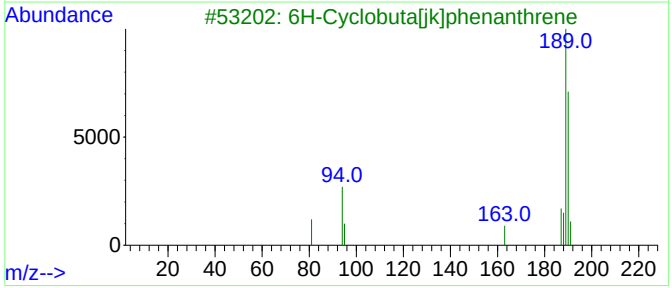



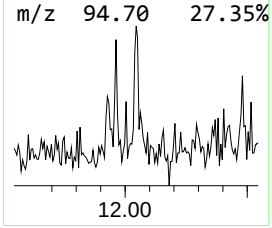



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

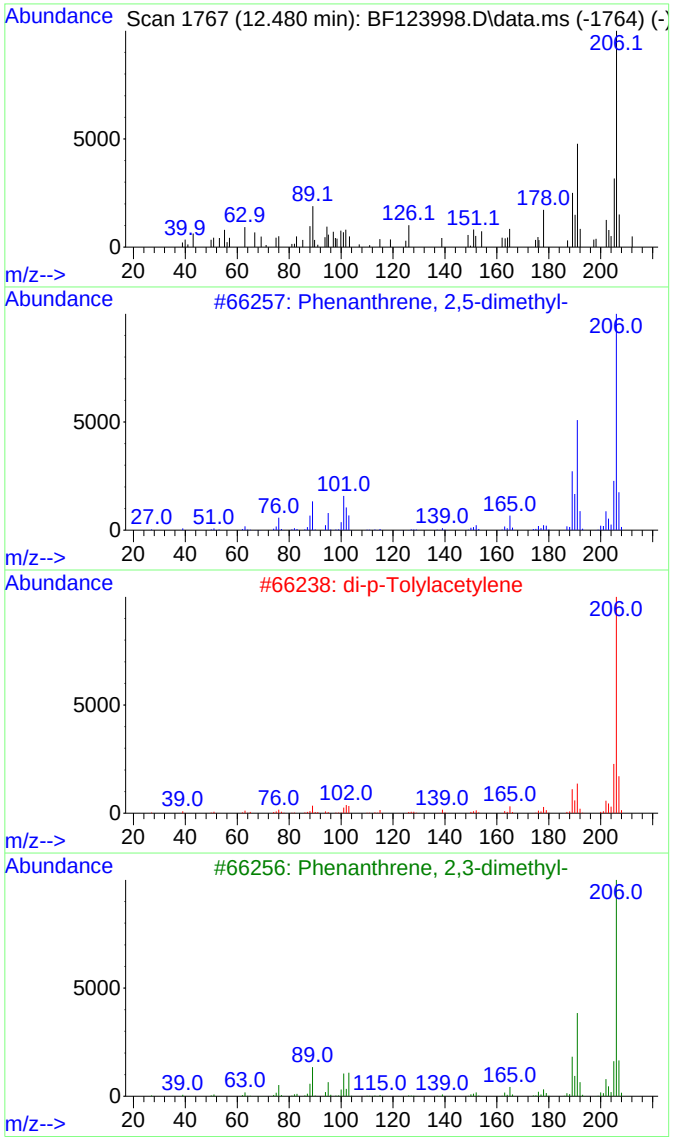
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

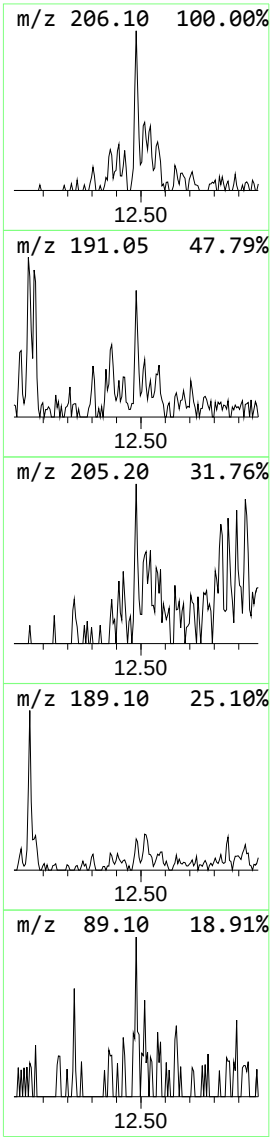
**********

Peak Number 5 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.480 | 2.34 ng | 47892 | Phenanthrene-d10 | 11.427 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 91 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 87 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 83 |
| 4 | [14]Annulene, 1,6:8,13-bis(metha... | 206 | C16H14 | 085385-68-8 | 80 |
| 5 | 3-Methyl-1-phenyl-1H-indene | 206 | C16H14 | 022360-63-0 | 76 |



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

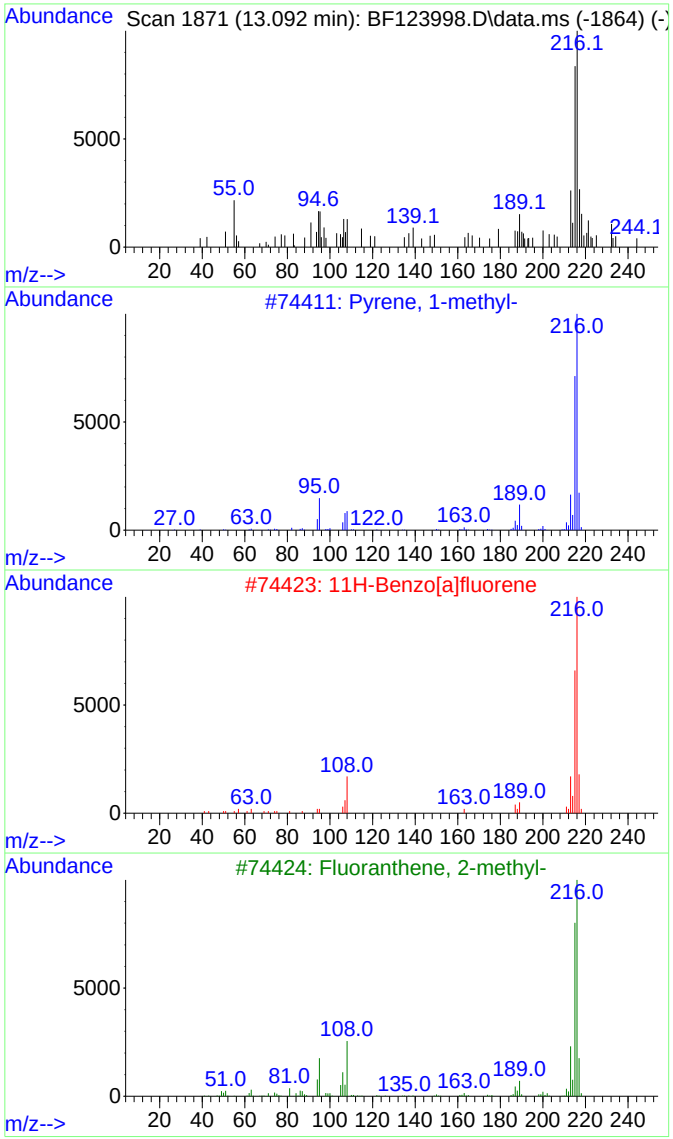
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

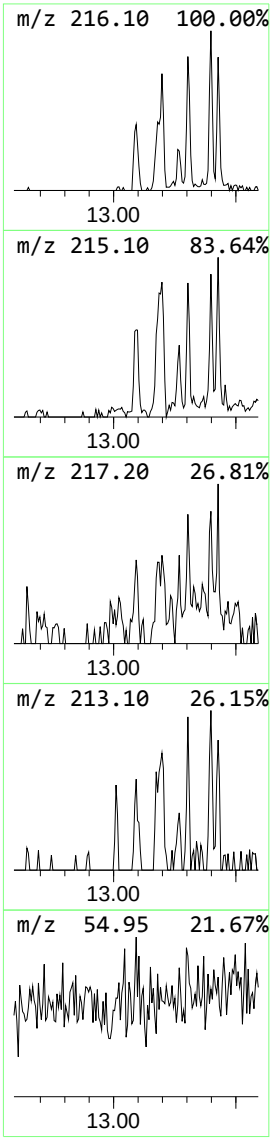
**********

Peak Number 6 Pyrene, 1-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.092 | 2.66 ng | 78413 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 68 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 64 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 53 |
| 4 | 3-Pyridinamine, 6-chloro-N-(phen... | 216 | C12H9ClN2 | 005325-71-3 | 53 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 53 |



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

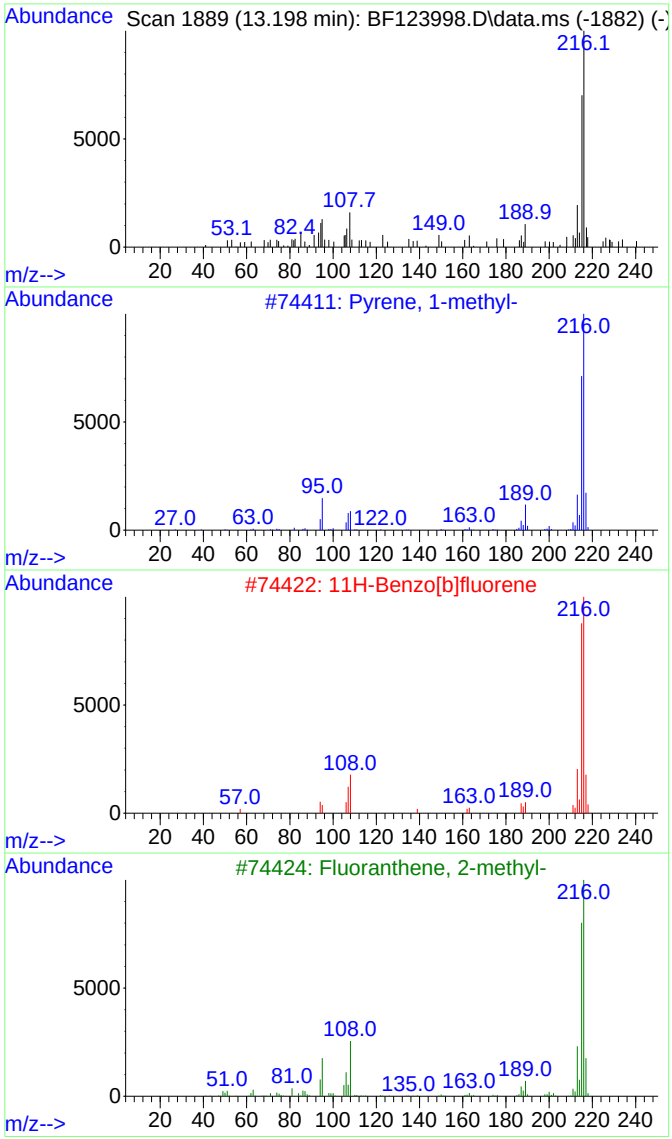
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

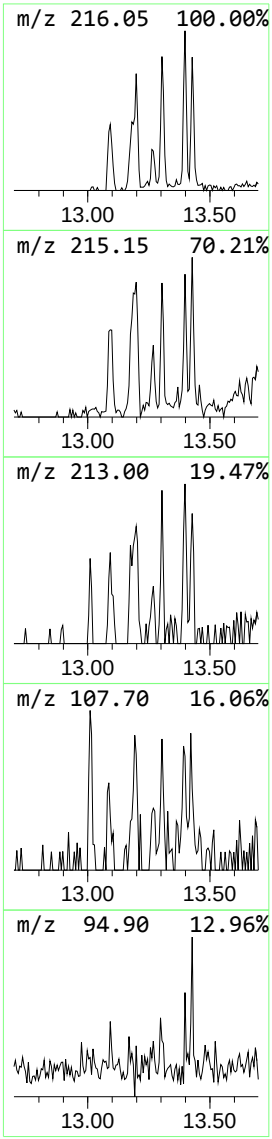
**********

Peak Number 7 11H-Benzo[b]fluorene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.198 | 3.45 ng | 101461 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 89 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 89 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 83 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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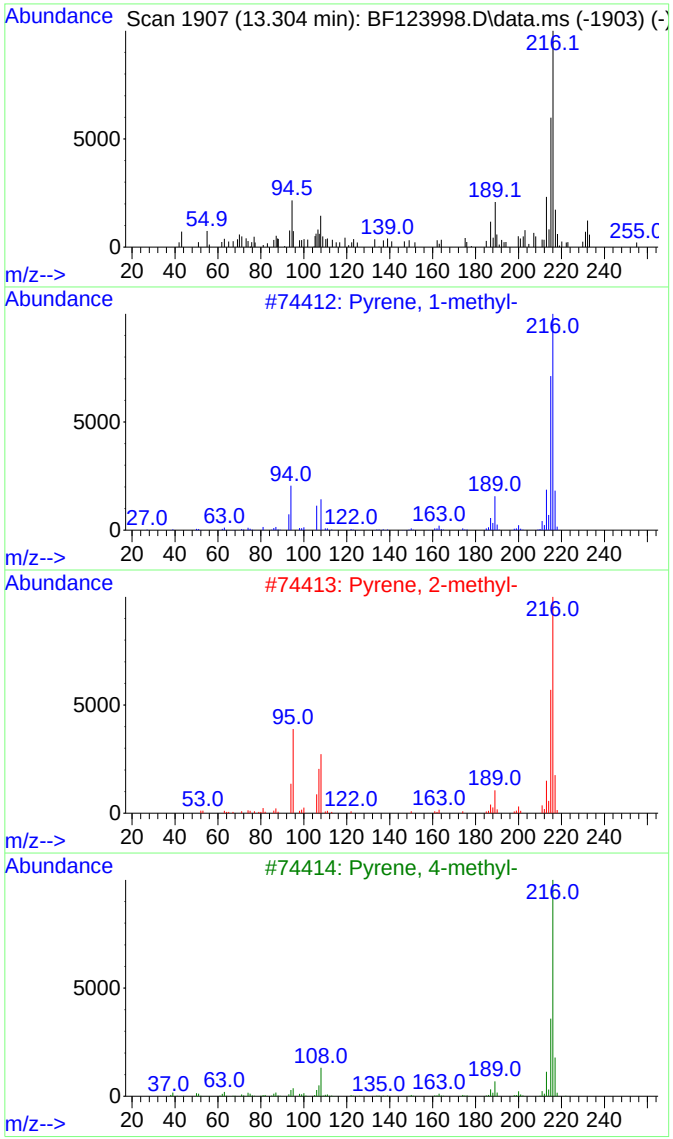
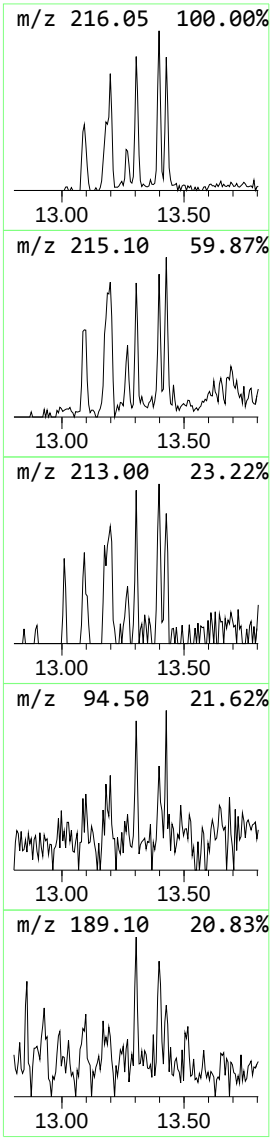
Peak Number 8 Pyrene, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.304 | 2.10 ng | 61907 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 81 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 64 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 64 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 58 |



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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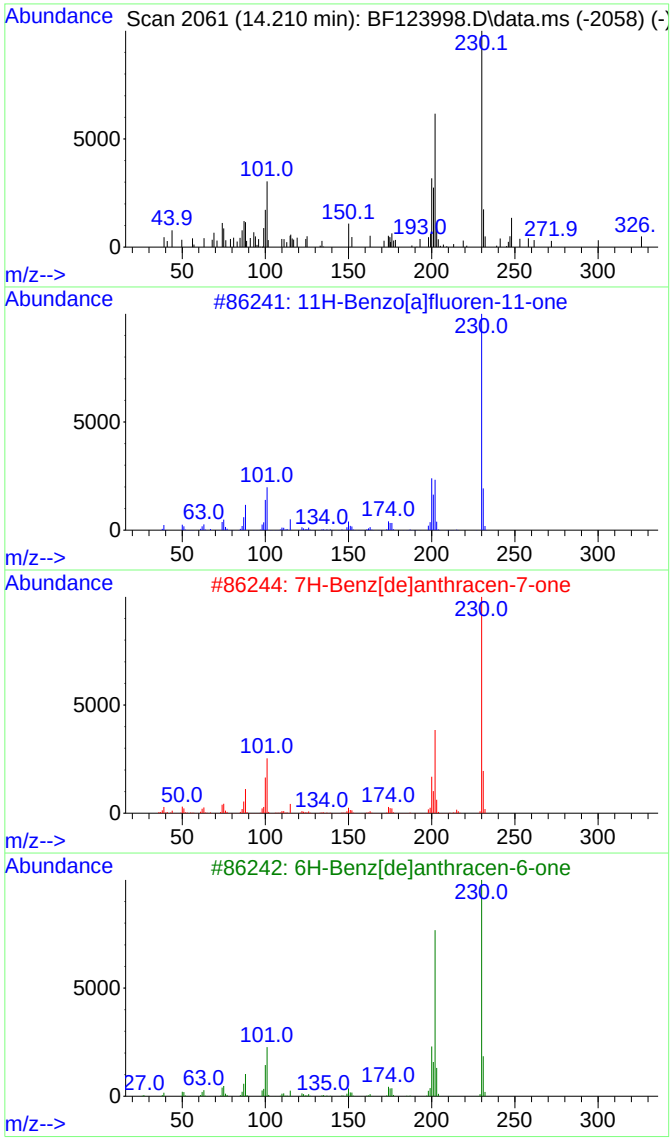
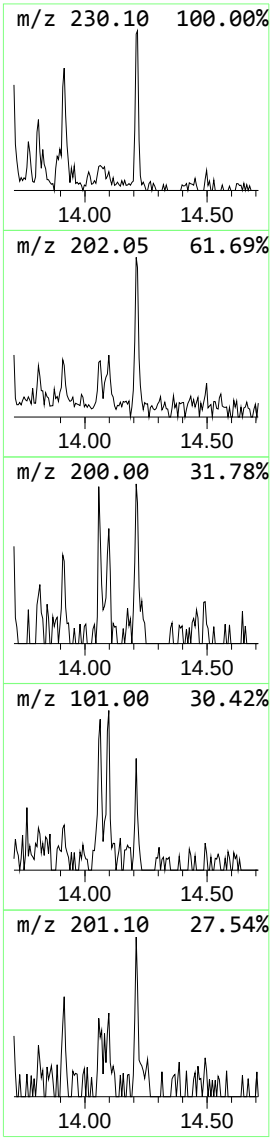
Peak Number 9 11H-Benzo[a]fluoren-11-one Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.210 | 3.01 ng | 88510 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 95 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 95 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 70 |
| 4 | 4-Pyrenecarbaldehyde | 230 | C17H10O | 022245-51-8 | 68 |
| 5 | 1-Pyrenecarboxaldehyde | 230 | C17H10O | 003029-19-4 | 58 |



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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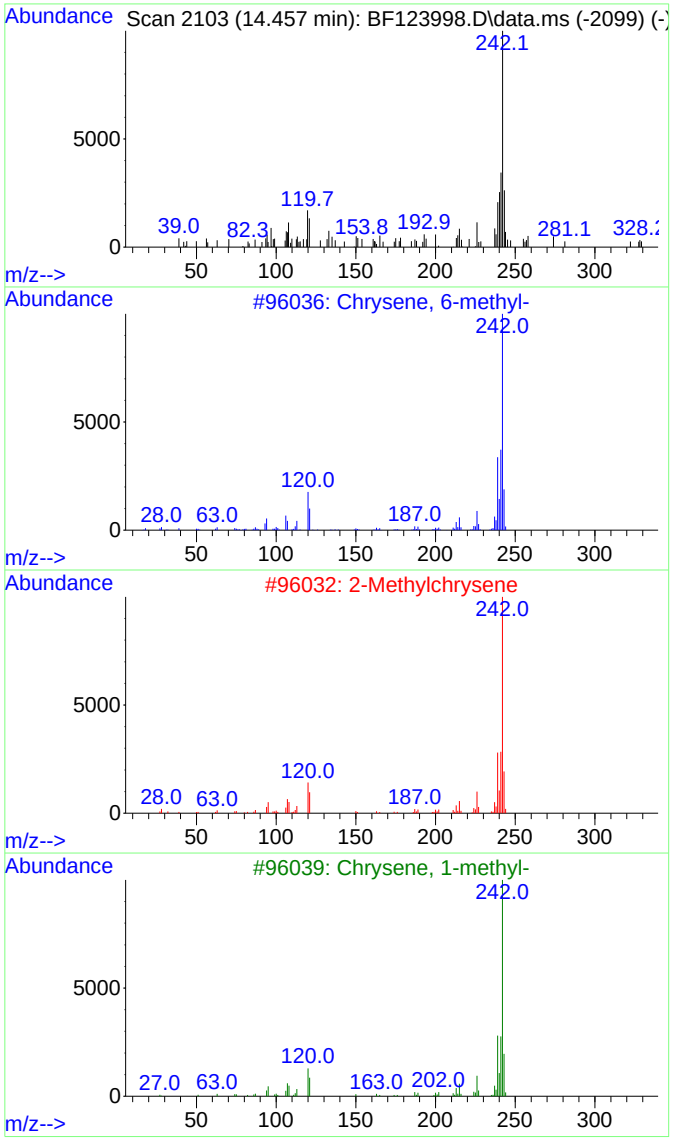
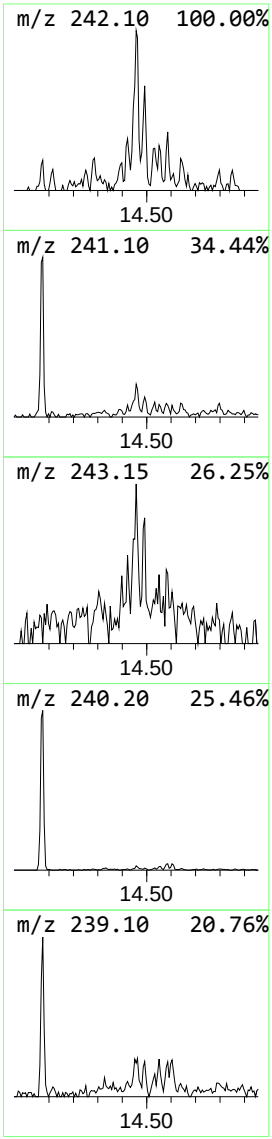
Peak Number 10 Chrysene, 6-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.457 | 2.39 ng | 70233 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chrysene, 6-methyl- | 242 | C19H14 | 001705-85-7 | 90 |
| 2 | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 76 |
| 3 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 68 |
| 4 | Benz[a]anthracene, 8-methyl- | 242 | C19H14 | 002381-31-9 | 64 |
| 5 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 64 |



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Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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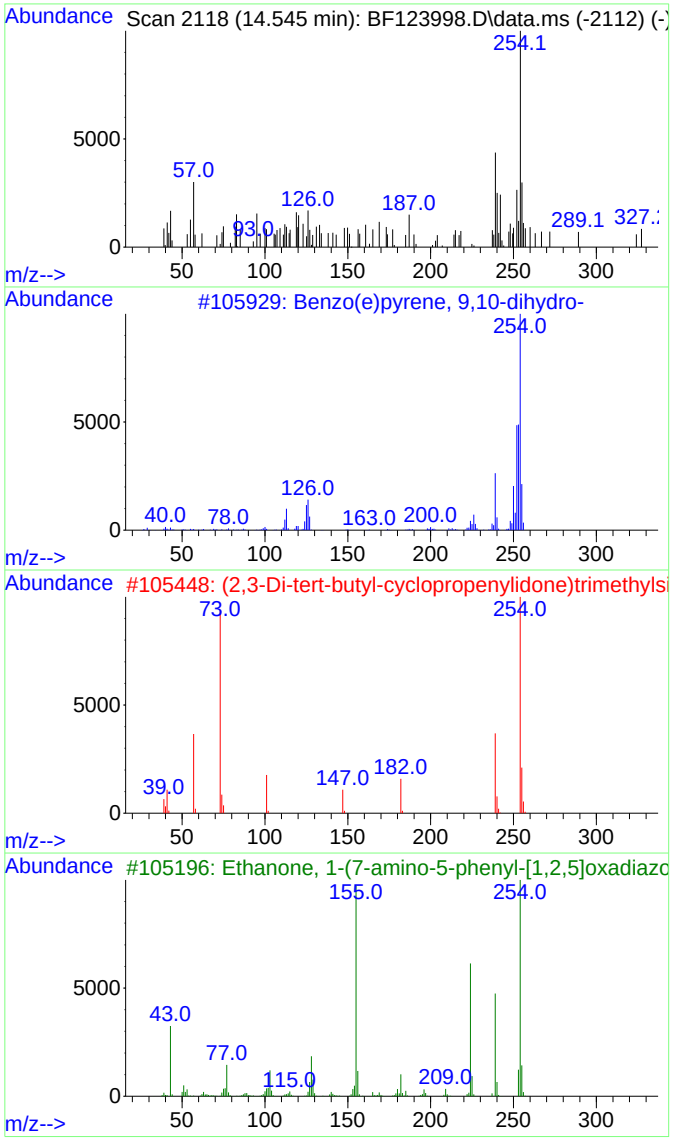
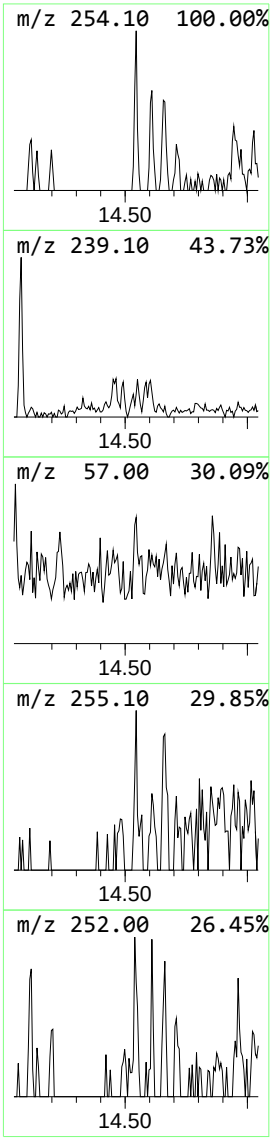
Peak Number 11 Benzo(e)pyrene, 9,10-dihydro- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.545 | 2.27 ng | 66732 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo(e)pyrene, 9,10-dihydro- | 254 | C20H14 | 066788-01-0 | 53 |
| 2 | (2,3-Di-tert-butyl-cyclopropenyl... | 254 | C14H27PSi | 1000306-16-6 | 47 |
| 3 | Ethanone, 1-(7-amino-5-phenyl-[1... | 254 | C13H10N4O2 | 1000316-41-1 | 43 |
| 4 | Fluorene, 9-(2-pyridinyl)methylene- | 255 | C19H13N | 002871-27-4 | 38 |
| 5 | Benzo(a)pyrene, 7,8-dihydro- | 254 | C20H14 | 017573-23-8 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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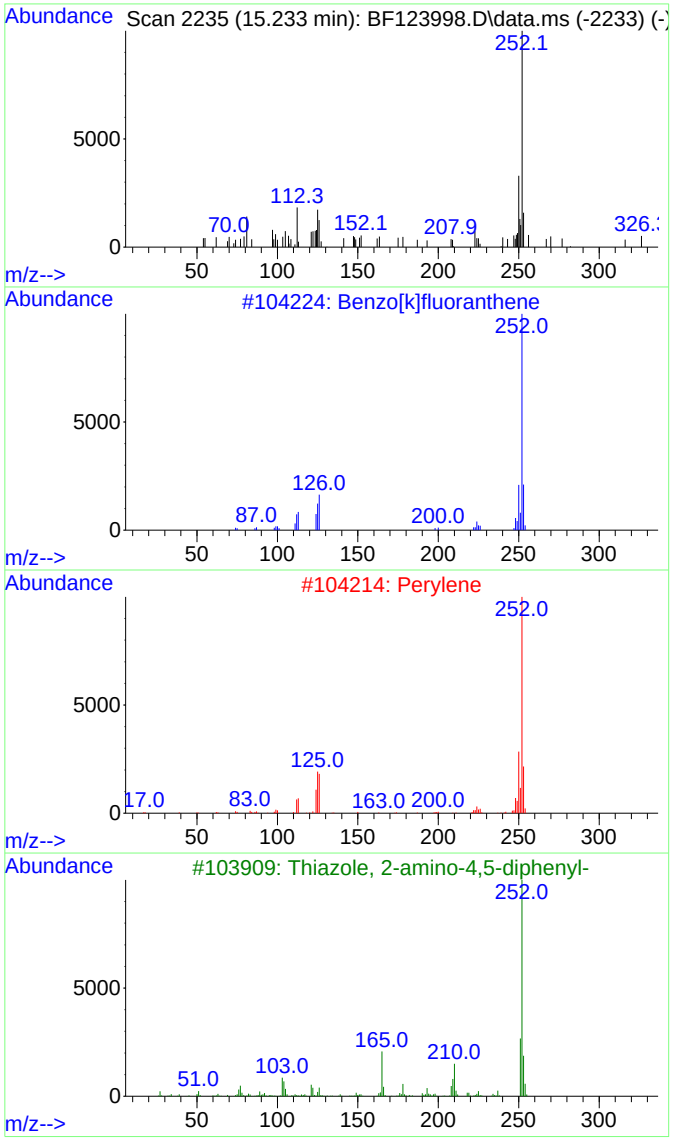
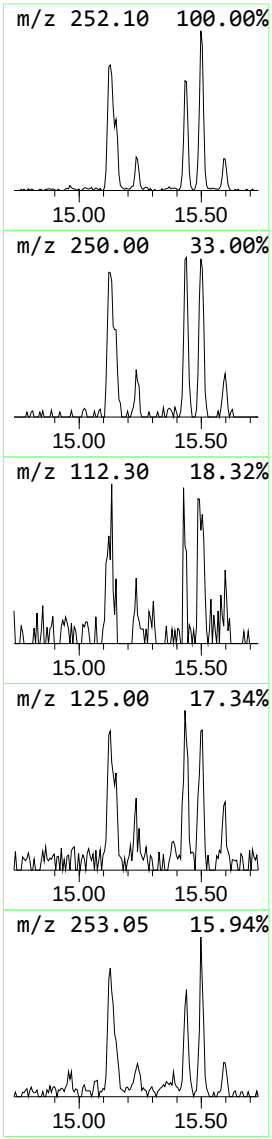
Peak Number 12 Perylene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.233 | 3.16 ng | 38464 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 53 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 53 |
| 3 | Thiazole, 2-amino-4,5-diphenyl- | 252 | C15H12N2S | 006318-74-7 | 52 |
| 4 | 3H-Pyrrolo[3,2-f]quinoline, 1,2,... | 252 | C17H20N2 | 1000338-03-5 | 52 |
| 5 | 1H-1,3-Benzimidazole, 2-tricyclo... | 252 | C17H20N2 | 1000319-80-9 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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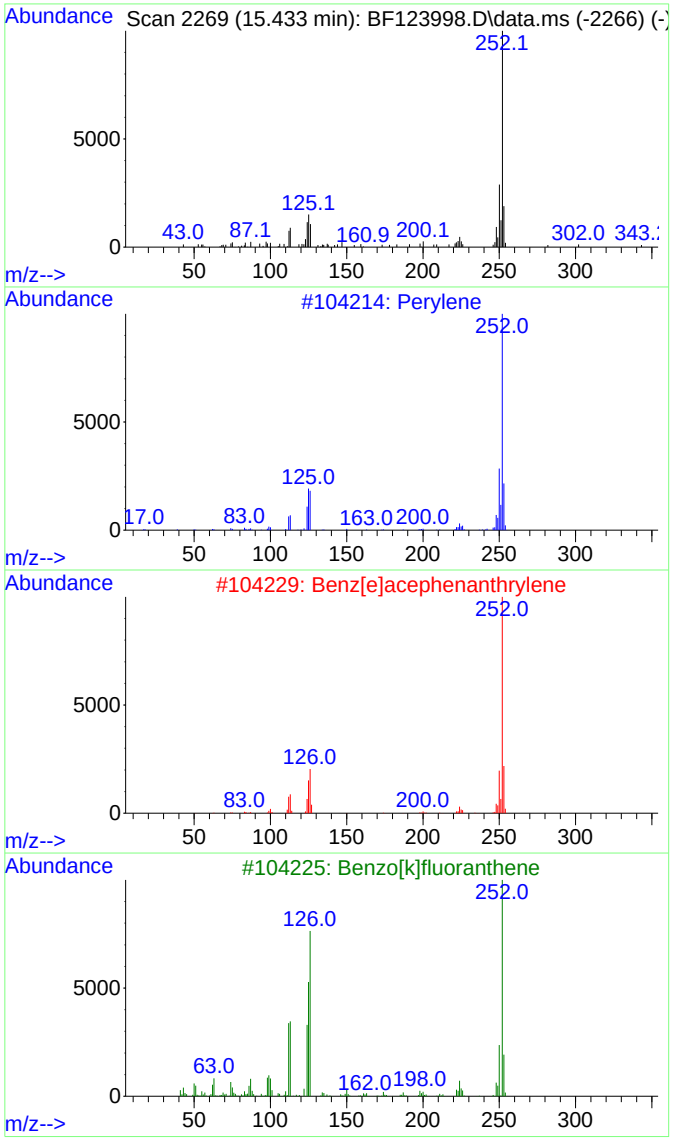
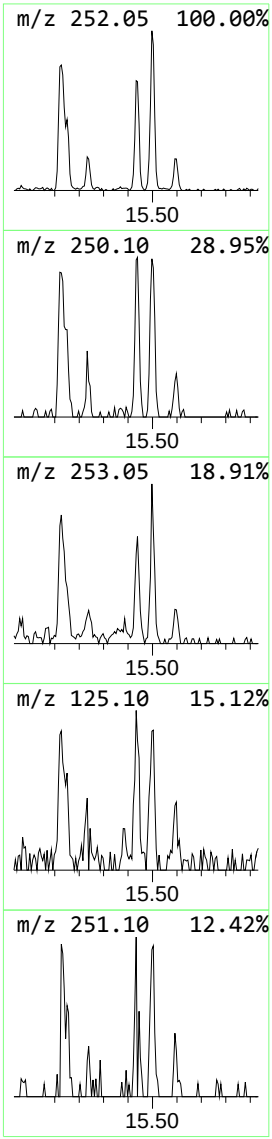
Peak Number 13 Benzo[j]fluoranthene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.433 | 9.32 ng | 113320 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 90 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 86 |
| 4 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 86 |
| 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 81 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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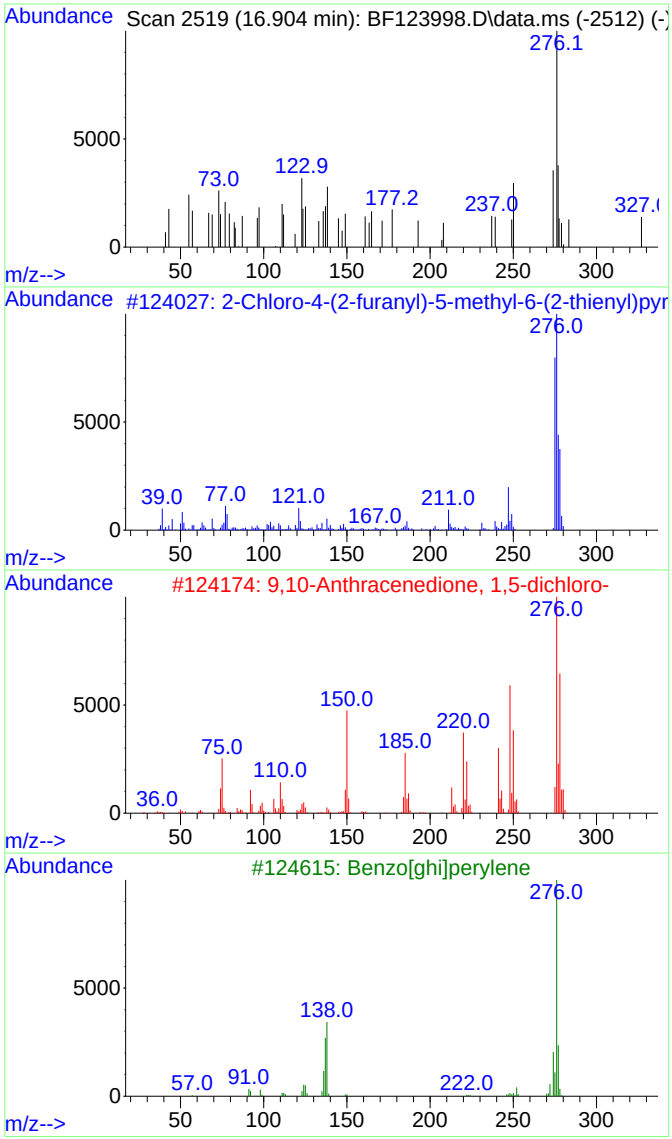
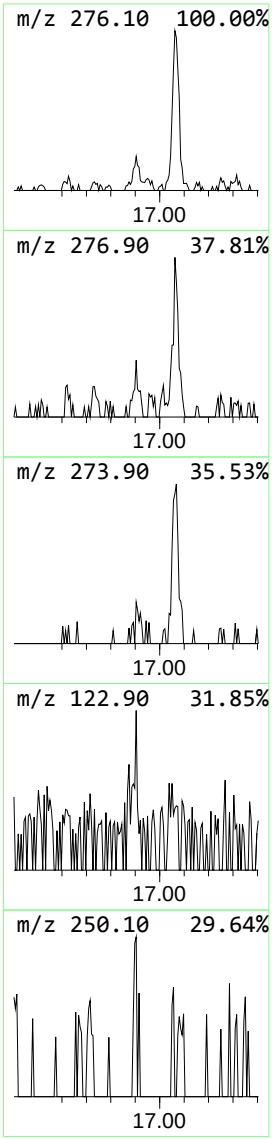
Peak Number 14 unknown16.904 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.904 | 3.18 ng | 38664 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Chloro-4-(2-furanyl)-5-methyl-... | 276 | C13H9ClN2OS | 131022-80-5 | 43 |
| 2 | 9,10-Anthracenedione, 1,5-dichloro- | 276 | C14H6Cl2O2 | 000082-46-2 | 32 |
| 3 | Benzo[ghi]perylene | 276 | C22H12 | 000191-24-2 | 30 |
| 4 | Indeno[1,2,3-cd]pyrene | 276 | C22H12 | 000193-39-5 | 27 |
| 5 | Indeno[1,2,3-cd]fluoranthene | 276 | C22H12 | 000193-43-1 | 27 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051921\
Data File : BF123998.D
Acq On : 19 May 2021 19:30
Operator : JU/CG
Sample : M2437-05 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.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-metho... | 2.152 | 7.8 | ng | 119081 | 1 | 6.904 | 305569 | 20.0 |
| Anthracene, 2-m... | 11.957 | 3.1 | ng | 63630 | 4 | 11.427 | 409760 | 20.0 |
| unknown12.045 | 12.045 | 3.6 | ng | 74408 | 4 | 11.427 | 409760 | 20.0 |
| Phenanthrene, 2... | 12.480 | 2.3 | ng | 47892 | 4 | 11.427 | 409760 | 20.0 |
| Pyrene, 1-methyl- | 13.092 | 2.7 | ng | 78413 | 5 | 14.074 | 588534 | 20.0 |
| 11H-Benzo[b]flu... | 13.198 | 3.5 | ng | 101461 | 5 | 14.074 | 588534 | 20.0 |
| Pyrene, 2-methyl- | 13.304 | 2.1 | ng | 61907 | 5 | 14.074 | 588534 | 20.0 |
| 11H-Benzo[a]flu... | 14.210 | 3.0 | ng | 88510 | 5 | 14.074 | 588534 | 20.0 |
| Chrysene, 6-met... | 14.457 | 2.4 | ng | 70233 | 5 | 14.074 | 588534 | 20.0 |
| Benzo(e)pyrene,... | 14.545 | 2.3 | ng | 66732 | 5 | 14.074 | 588534 | 20.0 |
| Perylene | 15.233 | 3.2 | ng | 38464 | 6 | 15.562 | 243249 | 20.0 |
| Benzo[j]fluoran... | 15.433 | 9.3 | ng | 113320 | 6 | 15.562 | 243249 | 20.0 |
| unknown16.904 | 16.904 | 3.2 | ng | 38664 | 6 | 15.562 | 243249 | 20.0 |