LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** VNJ-228

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-BF072522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF129647.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.069 | 470 | 473 | 481 | rBV | 72636 | 89009 | 2.11% | 0.222% |
| 2 | 5.475 | 538 | 542 | 560 | rBV | 3657365 | 3442148 | 81.62% | 8.567% |
| 3 | 6.492 | 710 | 715 | 718 | rBV | 3679287 | 3468597 | 82.25% | 8.633% |
| 4 | 6.839 | 770 | 774 | 777 | rBV | 1194604 | 927582 | 21.99% | 2.309% |
| 5 | 7.410 | 865 | 871 | 873 | rBV | 2269750 | 2299946 | 54.54% | 5.725% |
| 6 | 8.122 | 988 | 992 | 995 | rBV | 1576339 | 1235220 | 29.29% | 3.074% |
| 7 | 9.198 | 1170 | 1175 | 1178 | rBV | 5192772 | 4217354 | 100.00% | 10.497% |
| 8 | 9.739 | 1263 | 1267 | 1272 | rBV | 146039 | 121134 | 2.87% | 0.301% |
| 9 | 9.880 | 1287 | 1291 | 1294 | rVB | 1511500 | 1278297 | 30.31% | 3.182% |
| 10 | 10.675 | 1421 | 1426 | 1429 | rBV | 2089063 | 1969062 | 46.69% | 4.901% |
| 11 | 10.780 | 1439 | 1444 | 1452 | rVB3 | 96478 | 175517 | 4.16% | 0.437% |
| 12 | 11.216 | 1515 | 1518 | 1521 | rBV2 | 86034 | 77364 | 1.83% | 0.193% |
| 13 | 11.369 | 1540 | 1544 | 1546 | rBV | 1281467 | 1051433 | 24.93% | 2.617% |
| 14 | 11.392 | 1546 | 1548 | 1551 | rVV | 472976 | 356552 | 8.45% | 0.887% |
| 15 | 11.445 | 1553 | 1557 | 1559 | rVV | 168463 | 150483 | 3.57% | 0.375% |
| 16 | 11.598 | 1579 | 1583 | 1588 | rBV4 | 55485 | 93104 | 2.21% | 0.232% |
| 17 | 11.645 | 1588 | 1591 | 1593 | rBV | 76240 | 63686 | 1.51% | 0.159% |
| 18 | 11.898 | 1631 | 1634 | 1637 | rVB | 79452 | 71698 | 1.70% | 0.178% |
| 19 | 11.986 | 1645 | 1649 | 1657 | rVB | 103712 | 158054 | 3.75% | 0.393% |
| 20 | 12.051 | 1657 | 1660 | 1663 | rBV | 98765 | 79664 | 1.89% | 0.198% |
| 21 | 12.421 | 1720 | 1723 | 1724 | rBV | 67965 | 63708 | 1.51% | 0.159% |
| 22 | 12.439 | 1724 | 1726 | 1731 | rVV3 | 77451 | 103518 | 2.45% | 0.258% |
| 23 | 12.510 | 1735 | 1738 | 1742 | rBV2 | 108863 | 108197 | 2.57% | 0.269% |
| 24 | 12.586 | 1747 | 1751 | 1754 | rBV | 1108982 | 907612 | 21.52% | 2.259% |
| 25 | 12.816 | 1787 | 1790 | 1793 | rVB | 1260658 | 1023151 | 24.26% | 2.547% |
| 26 | 12.863 | 1796 | 1798 | 1803 | rVB2 | 63649 | 65943 | 1.56% | 0.164% |
| 27 | 12.957 | 1807 | 1814 | 1816 | rBV | 2970788 | 2728716 | 64.70% | 6.792% |
| 28 | 12.974 | 1816 | 1817 | 1820 | rVB | 148757 | 93553 | 2.22% | 0.233% |
| 29 | 13.033 | 1822 | 1827 | 1831 | rBV4 | 135831 | 227122 | 5.39% | 0.565% |
| 30 | 13.127 | 1838 | 1843 | 1848 | rBV5 | 217674 | 409560 | 9.71% | 1.019% |
| 31 | 13.174 | 1848 | 1851 | 1854 | rBV2 | 78136 | 81868 | 1.94% | 0.204% |
| 32 | 13.210 | 1854 | 1857 | 1859 | rBV2 | 91203 | 69632 | 1.65% | 0.173% |
| 33 | 13.245 | 1859 | 1863 | 1866 | rBV2 | 196813 | 237722 | 5.64% | 0.592% |
| 34 | 13.339 | 1876 | 1879 | 1882 | rBV | 224491 | 207354 | 4.92% | 0.516% |
| 35 | 13.374 | 1882 | 1885 | 1888 | rVV2 | 112775 | 133542 | 3.17% | 0.332% |
| 36 | 13.516 | 1906 | 1909 | 1911 | rBV3 | 76042 | 74467 | 1.77% | 0.185% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

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-BF072522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.651 | 1930 | 1932 | 1937 | rVB | 203267 | 203671 | 4.83% | 0.507% |
| 38 | 13.763 | 1948 | 1951 | 1954 | rBV2 | 131792 | 147574 | 3.50% | 0.367% |
| 39 | 13.792 | 1954 | 1956 | 1958 | rVV | 126487 | 85901 | 2.04% | 0.214% |
| 40 | 13.816 | 1958 | 1960 | 1964 | rVV2 | 147340 | 202417 | 4.80% | 0.504% |
| 41 | 13.863 | 1965 | 1968 | 1972 | rVB | 209946 | 244995 | 5.81% | 0.610% |
| 42 | 13.980 | 1985 | 1988 | 1991 | rBV | 1855047 | 1730737 | 41.04% | 4.308% |
| 43 | 14.015 | 1991 | 1994 | 1997 | rVV2 | 1165402 | 1836495 | 43.55% | 4.571% |
| 44 | 14.045 | 1997 | 1999 | 2006 | rVB | 825742 | 732727 | 17.37% | 1.824% |
| 45 | 14.104 | 2006 | 2009 | 2011 | rBV3 | 91333 | 95846 | 2.27% | 0.239% |
| 46 | 14.139 | 2013 | 2015 | 2018 | rBV | 87929 | 70995 | 1.68% | 0.177% |
| 47 | 14.233 | 2028 | 2031 | 2032 | rBV | 92998 | 73888 | 1.75% | 0.184% |
| 48 | 14.274 | 2036 | 2038 | 2041 | rBV3 | 107202 | 103410 | 2.45% | 0.257% |
| 49 | 14.368 | 2051 | 2054 | 2055 | rBV2 | 69599 | 63587 | 1.51% | 0.158% |
| 50 | 14.404 | 2055 | 2060 | 2063 | rVB | 288452 | 294893 | 6.99% | 0.734% |
| 51 | 14.439 | 2063 | 2066 | 2069 | rBV2 | 118183 | 127549 | 3.02% | 0.317% |
| 52 | 14.527 | 2079 | 2081 | 2083 | rBV | 96485 | 76744 | 1.82% | 0.191% |
| 53 | 14.715 | 2111 | 2113 | 2116 | rBV | 76302 | 58554 | 1.39% | 0.146% |
| 54 | 14.898 | 2141 | 2144 | 2146 | rBV2 | 104684 | 160171 | 3.80% | 0.399% |
| 55 | 15.062 | 2167 | 2172 | 2175 | rBV | 1301325 | 1864740 | 44.22% | 4.641% |
| 56 | 15.168 | 2187 | 2190 | 2194 | rBV | 193756 | 222399 | 5.27% | 0.554% |
| 57 | 15.368 | 2220 | 2224 | 2230 | rVB | 796895 | 1008121 | 23.90% | 2.509% |
| 58 | 15.433 | 2230 | 2235 | 2239 | rVB | 682216 | 797489 | 18.91% | 1.985% |
| 59 | 15.492 | 2241 | 2245 | 2249 | rVV | 619576 | 879437 | 20.85% | 2.189% |
| 60 | 15.527 | 2249 | 2251 | 2257 | rVB3 | 233289 | 304841 | 7.23% | 0.759% |
| 61 | 16.974 | 2492 | 2497 | 2508 | rVB3 | 265846 | 595374 | 14.12% | 1.482% |
| 62 | 17.421 | 2569 | 2573 | 2582 | rVB | 173646 | 333094 | 7.90% | 0.829% |

Sum of corrected areas: 40177218

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
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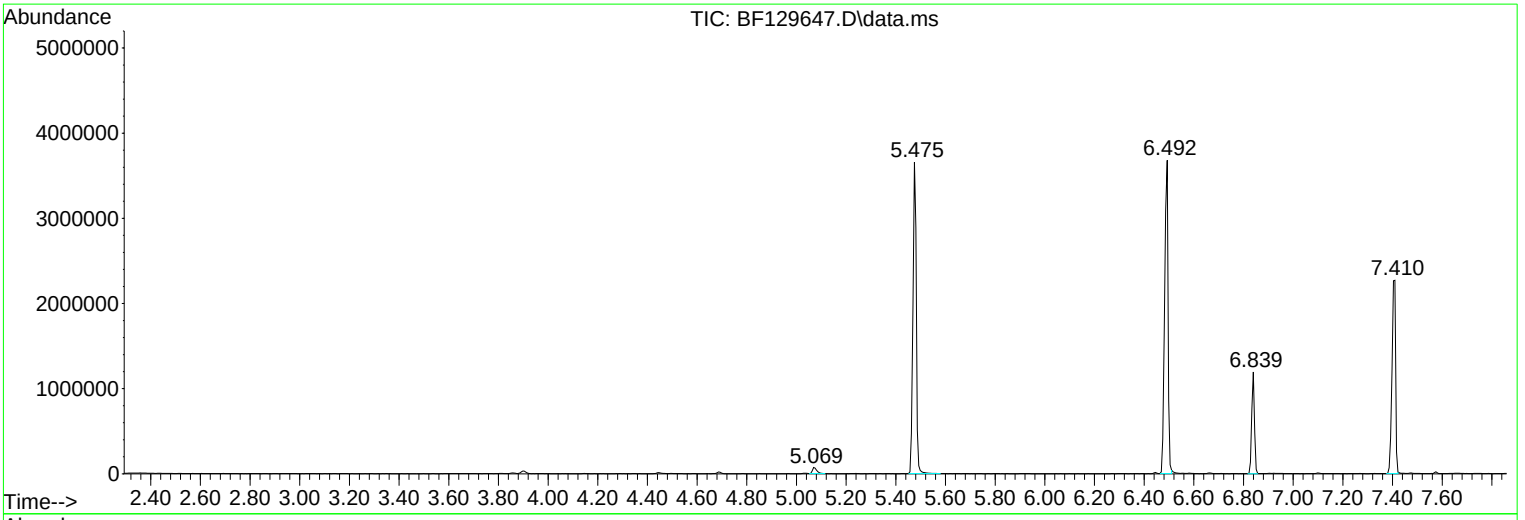
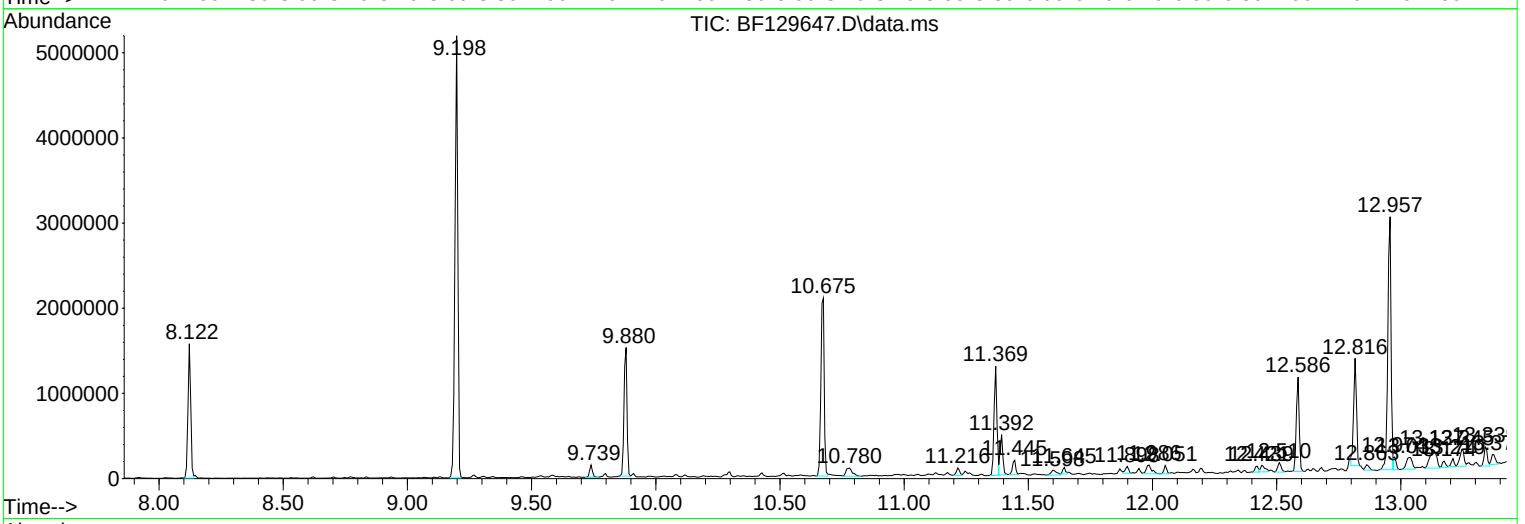
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

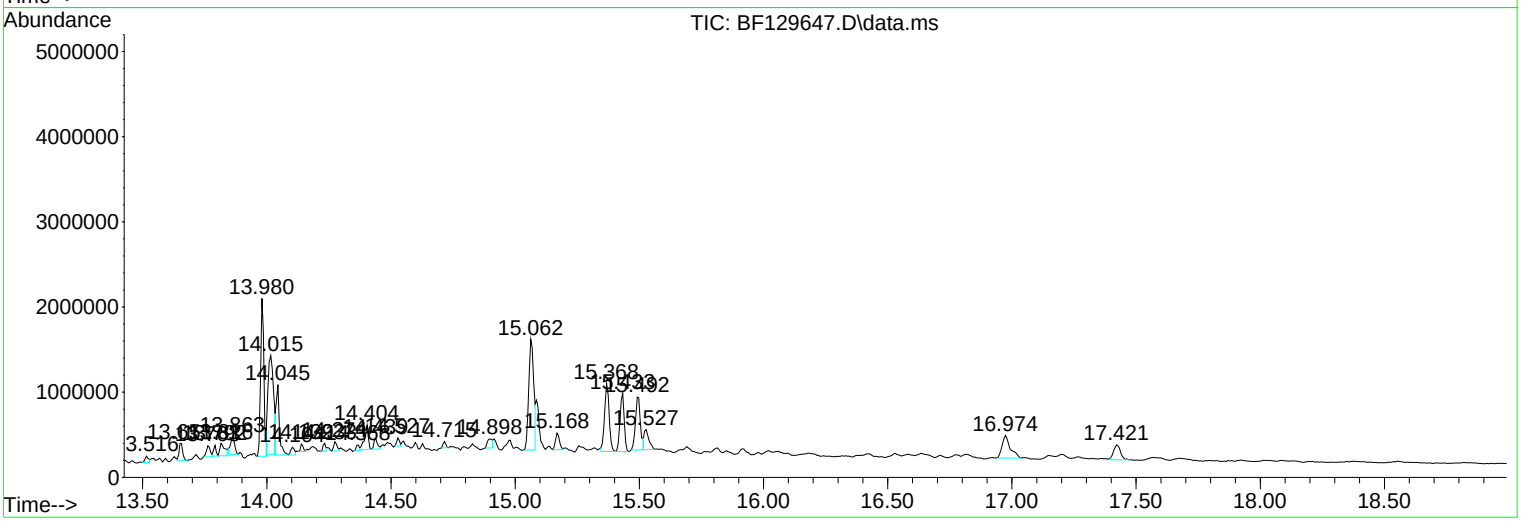
**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

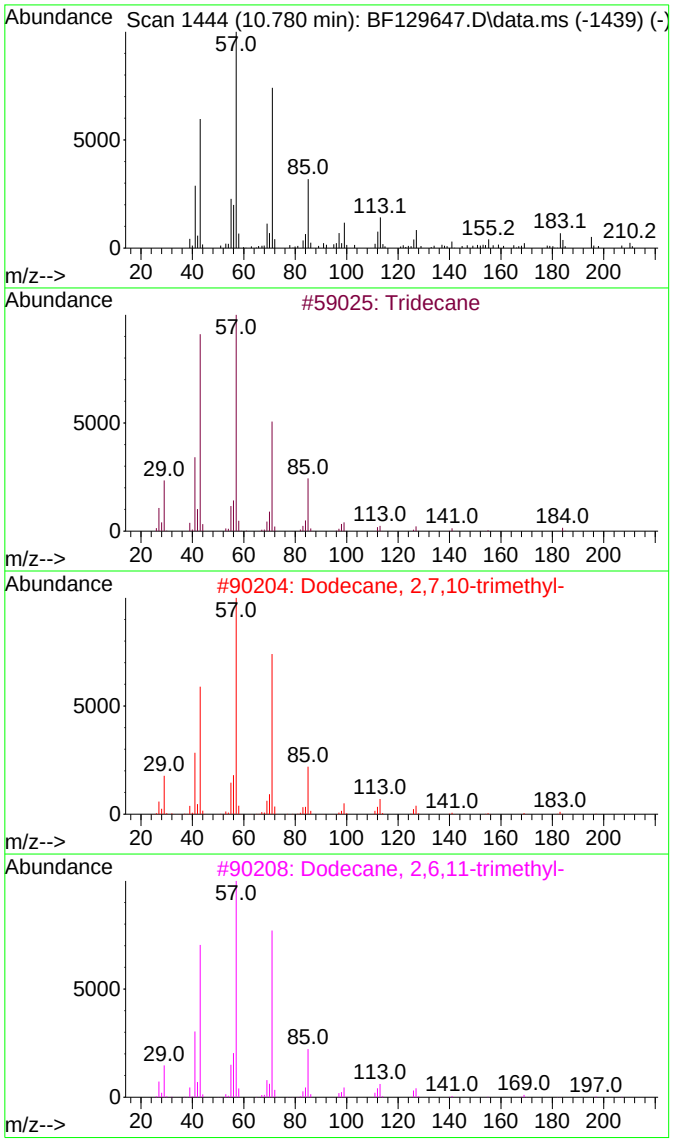
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

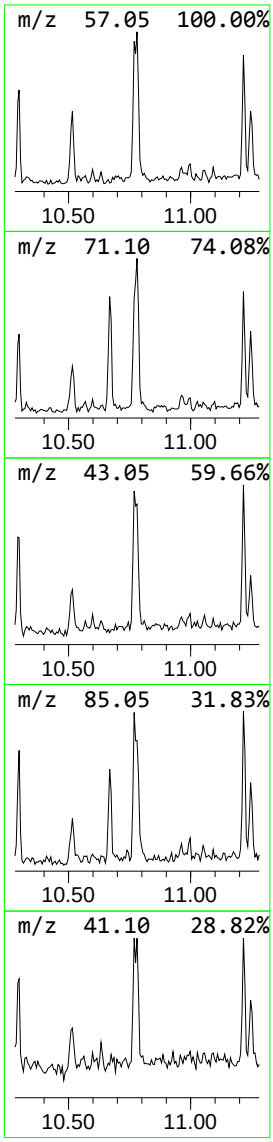
**********

Peak Number 1 Tridecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.780 | 3.34 ng | 175517 | Phenanthrene-d10 | 11.369 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 83 |
| 2 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 80 |
| 3 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 80 |
| 4 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 76 |
| 5 | Octane, 3-ethyl-2,7-dimethyl- | 170 | C12H26 | 062183-55-5 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

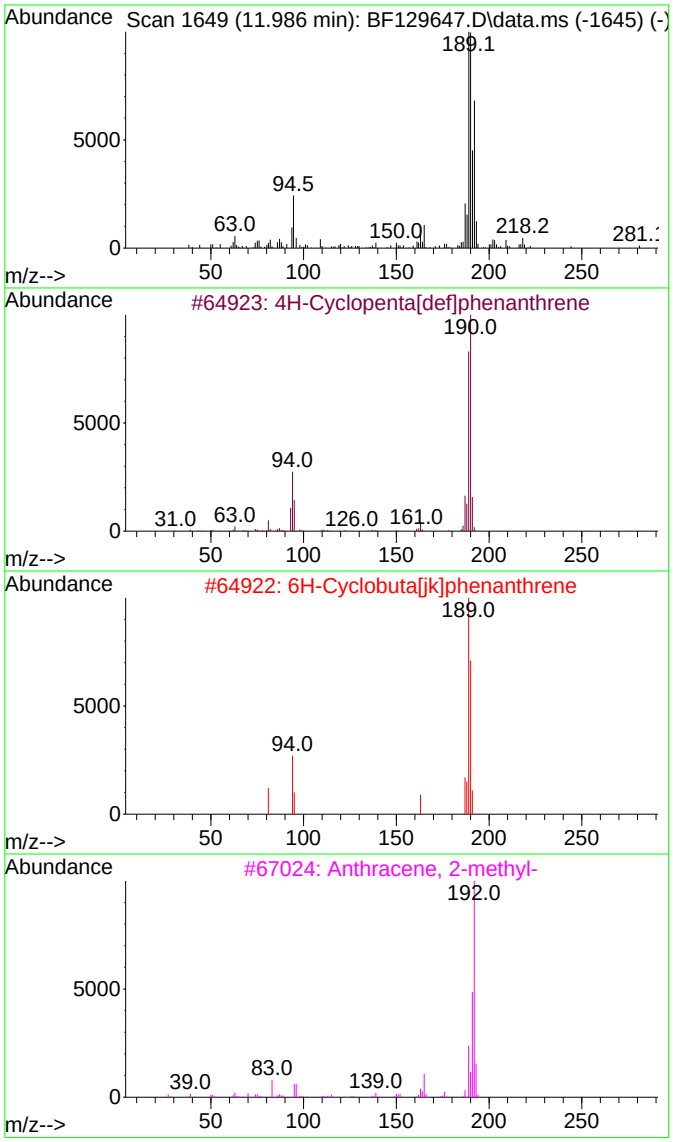
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

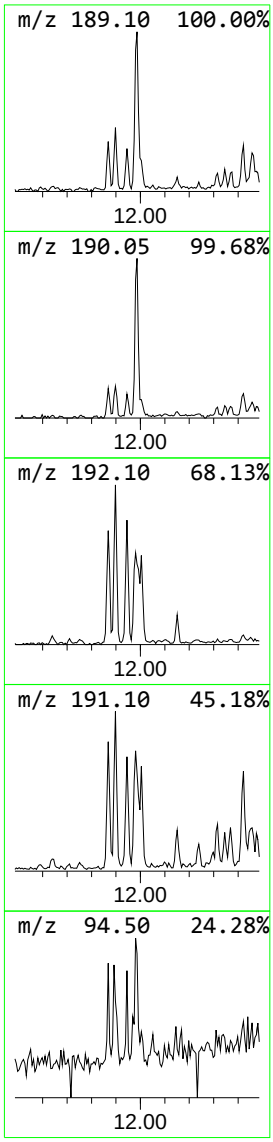
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.986 | 3.01 ng | 158054 | Phenanthrene-d10 | 11.369 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 62 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 58 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 38 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 38 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 30 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

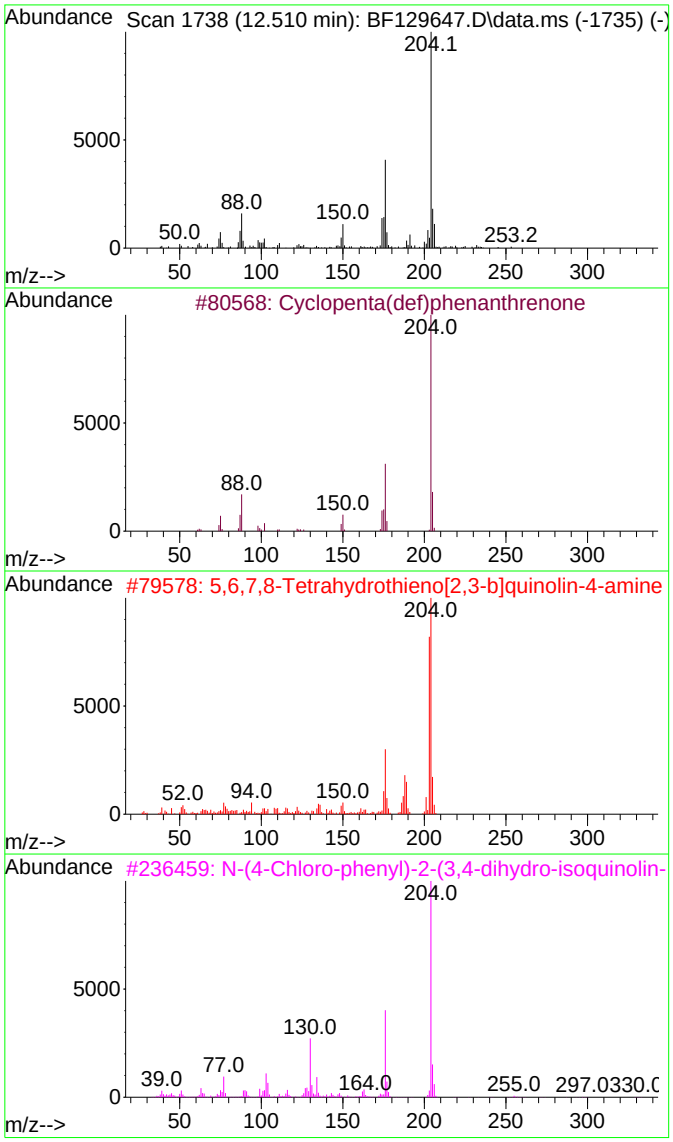
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

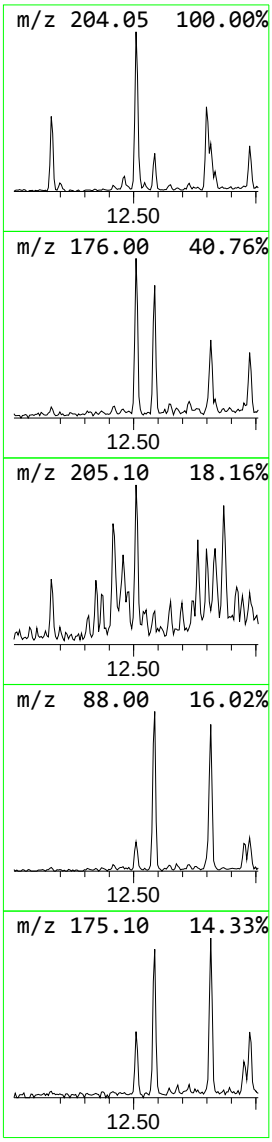
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Cyclopenta(def)phenanthrenone Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.510 | 2.06 ng | 108197 | Phenanthrene-d10 | 11.369 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 95 |
| 2 | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204 | C11H12N2S | 122914-50-5 | 72 |
| 3 | N-(4-Chloro-phenyl)-2-(3,4-dihyd... | 330 | C17H15ClN2OS | 1010296-34-3 | 59 |
| 4 | Acetamide, 2-(3,4-dihydro-1-isoq... | 332 | C17H14F2N2OS | 1000270-76-1 | 59 |
| 5 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

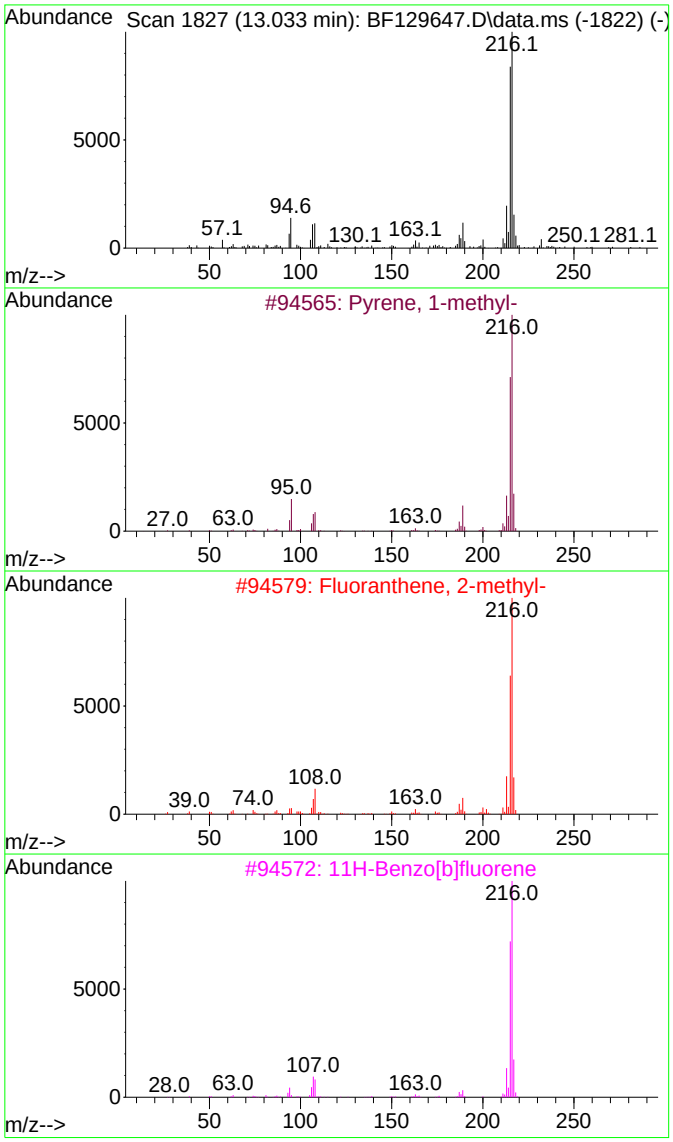
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

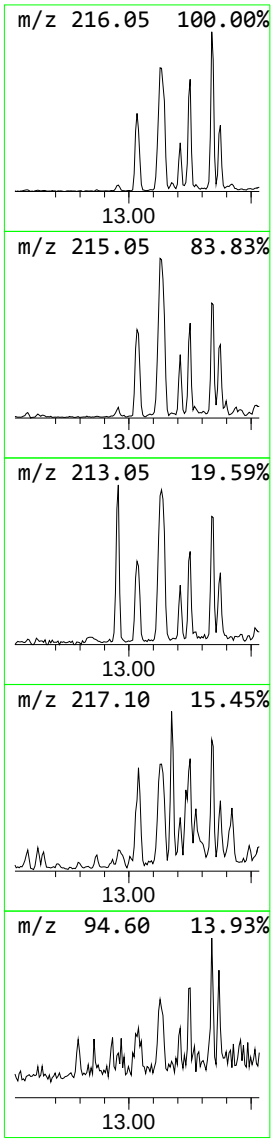
**********

Peak Number 4 Pyrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.033 | 2.47 ng | 227122 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 86 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 76 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

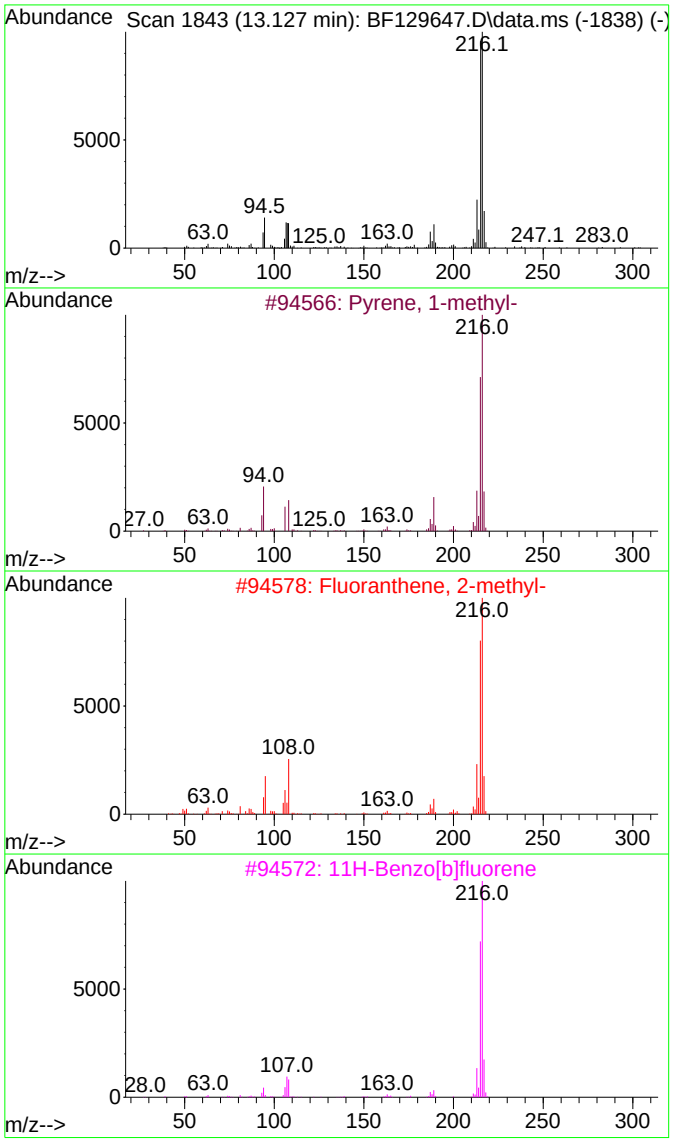
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

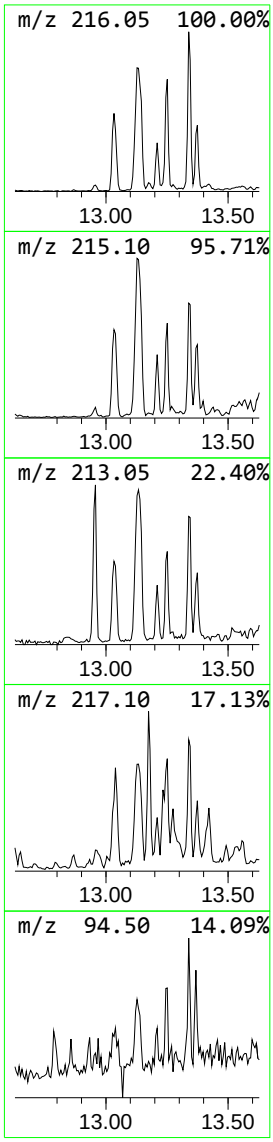
**********

Peak Number 5 Fluoranthene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.127 | 4.46 ng | 409560 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 74 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

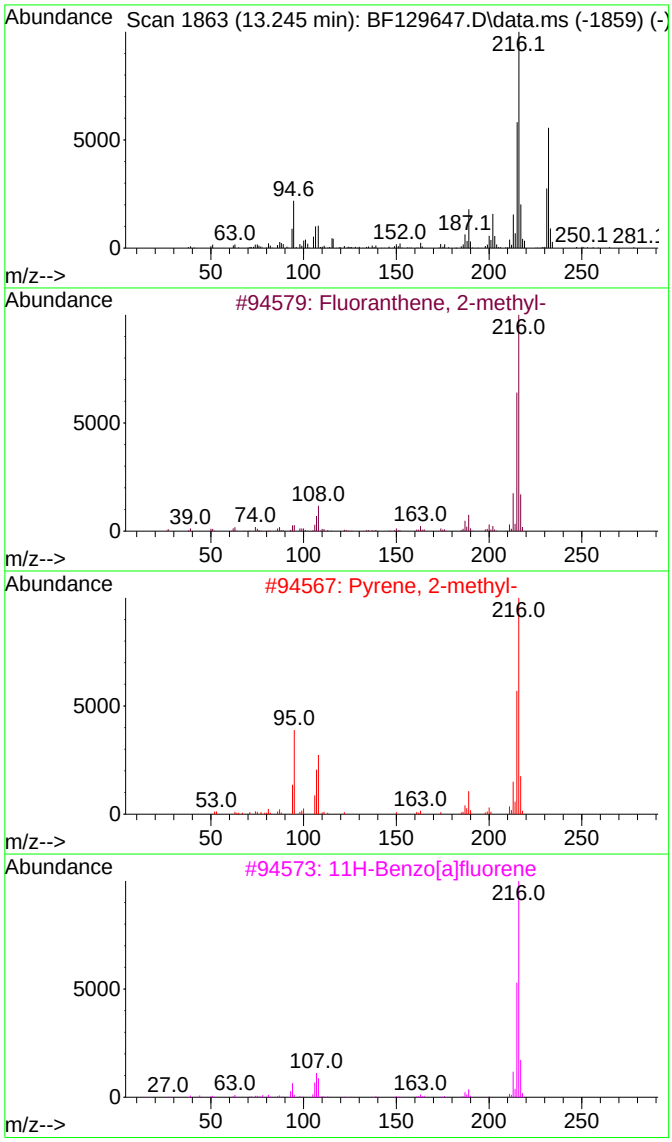
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

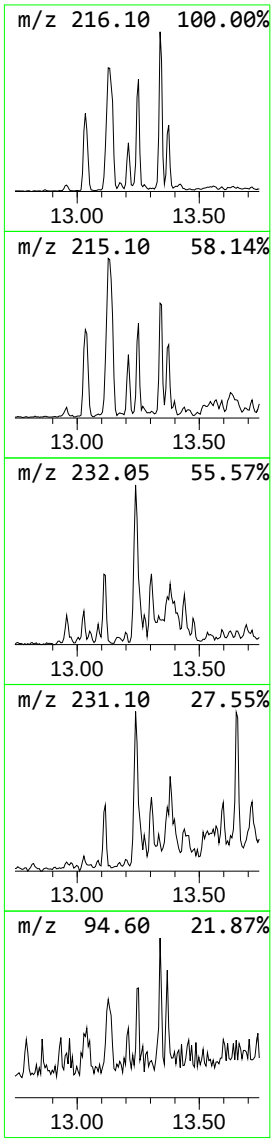
**********

Peak Number 6 Pyrene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.245 | 2.59 ng | 237722 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 83 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 60 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 55 |
| 5 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

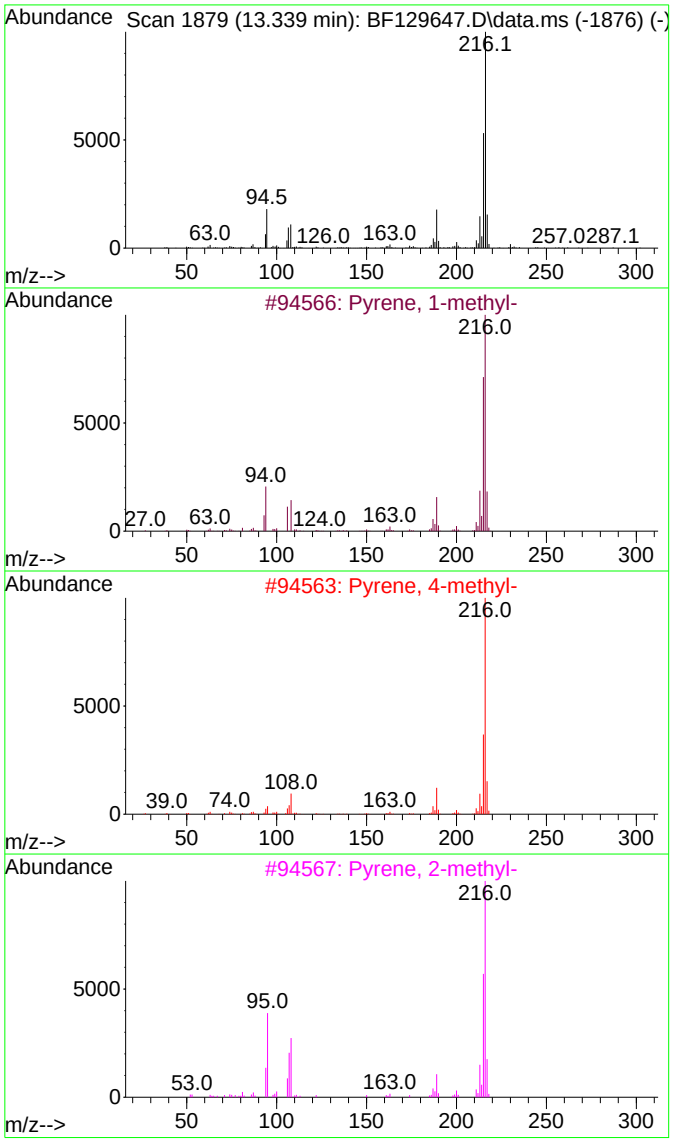
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

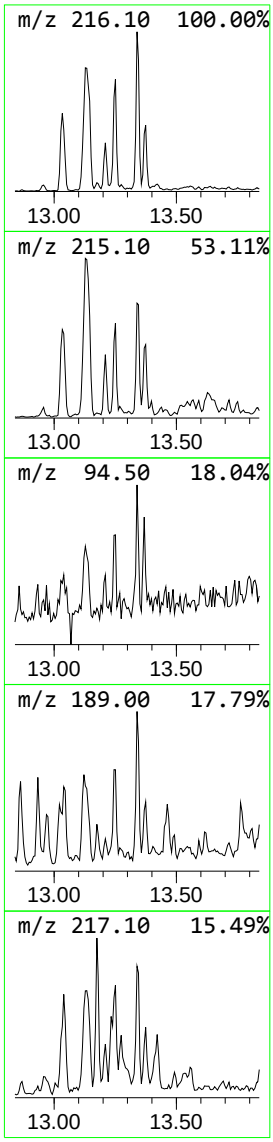
**********

Peak Number 7 Pyrene, 4-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.339 | 2.26 ng | 207354 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 96 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 89 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

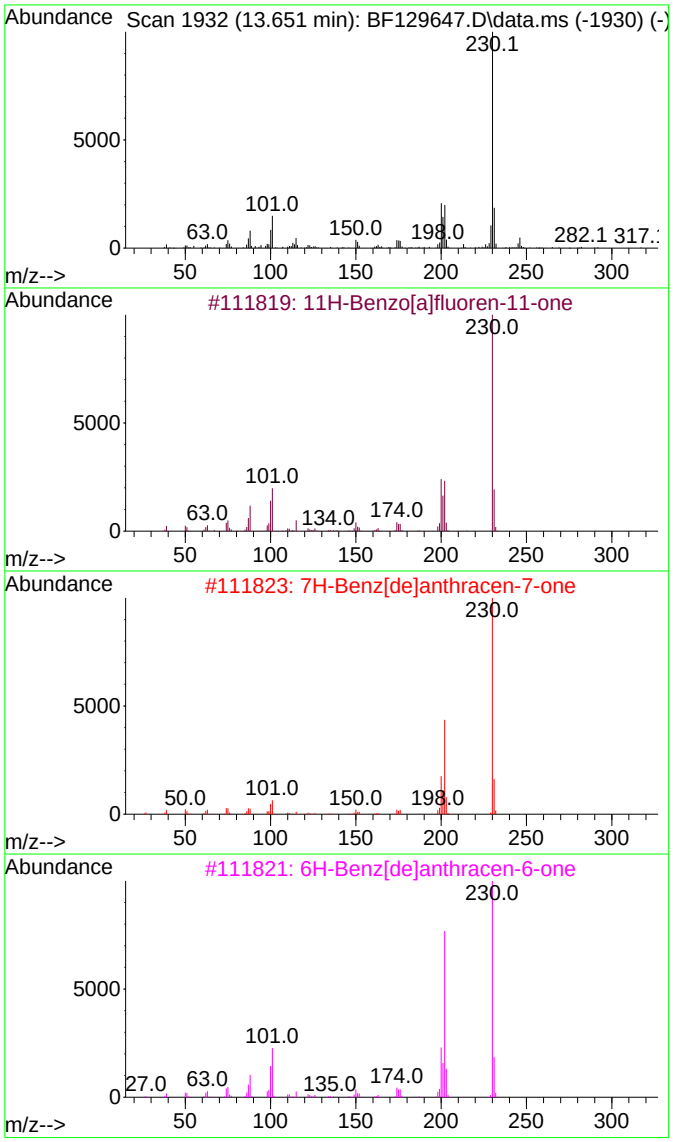
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

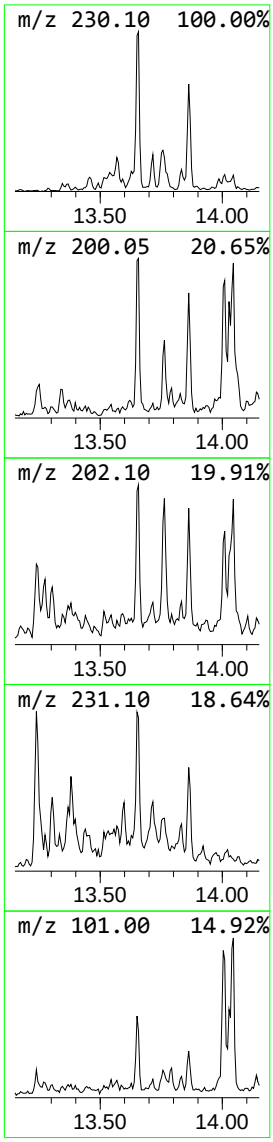
**********

Peak Number 8 11H-Benzo[a]fluoren-11-one Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.651 | 2.22 ng | 203671 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 96 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 89 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 76 |
| 4 | Benzonitrile, 4-(2-cyano-2-pheny... | 230 | C16H10N2 | 061469-58-7 | 64 |
| 5 | o-Terphenyl | 230 | C18H14 | 000084-15-1 | 58 |



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Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

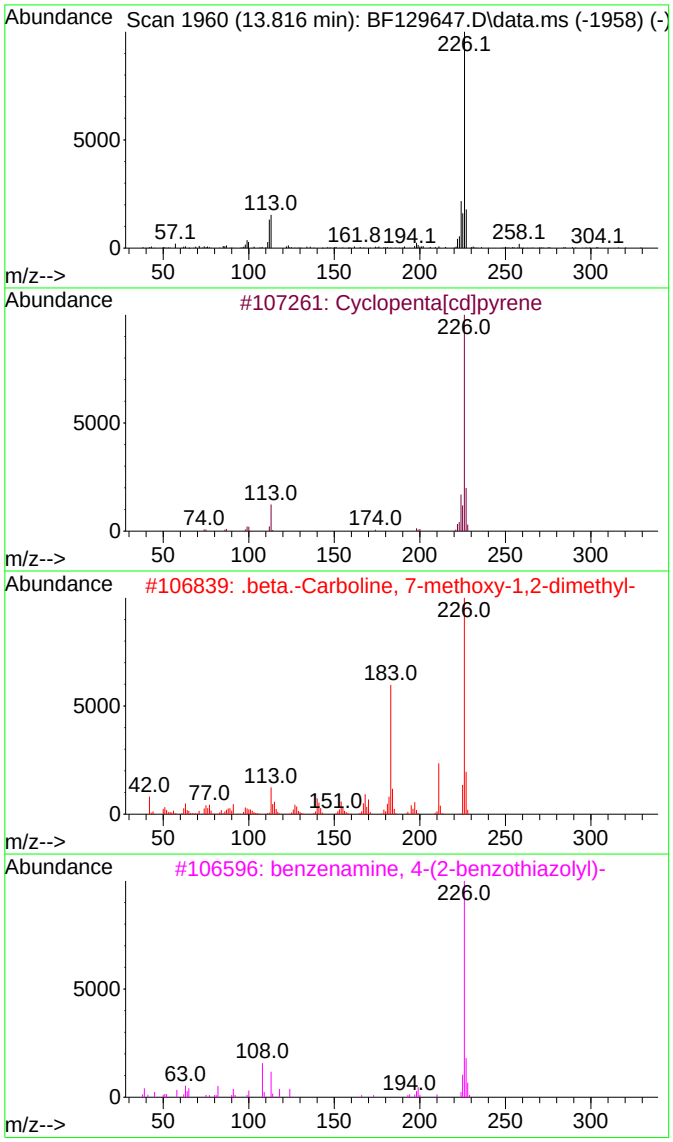
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

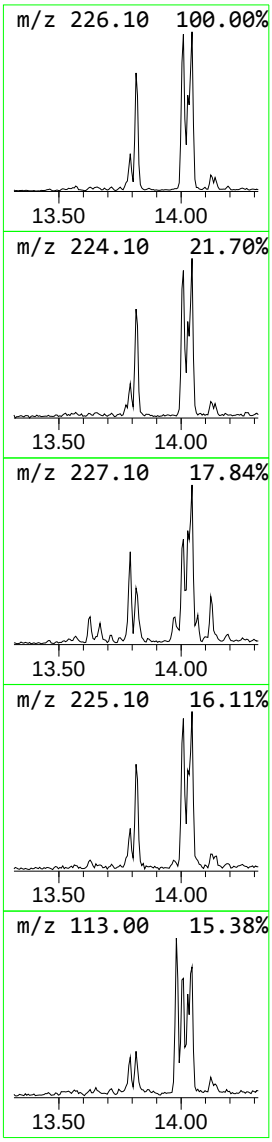
**********

Peak Number 9 Cyclopenta[cd]pyrene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.816 | 2.20 ng | 202417 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 76 |
| 2 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 58 |
| 3 | benzenamine, 4-(2-benzothiazolyl)- | 226 | C13H10N2S | 1000400-93-4 | 53 |
| 4 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 47 |
| 5 | 4-Naphthalen-2-yl-thiazol-2-ylamine | 226 | C13H10N2S | 1000300-53-4 | 42 |



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Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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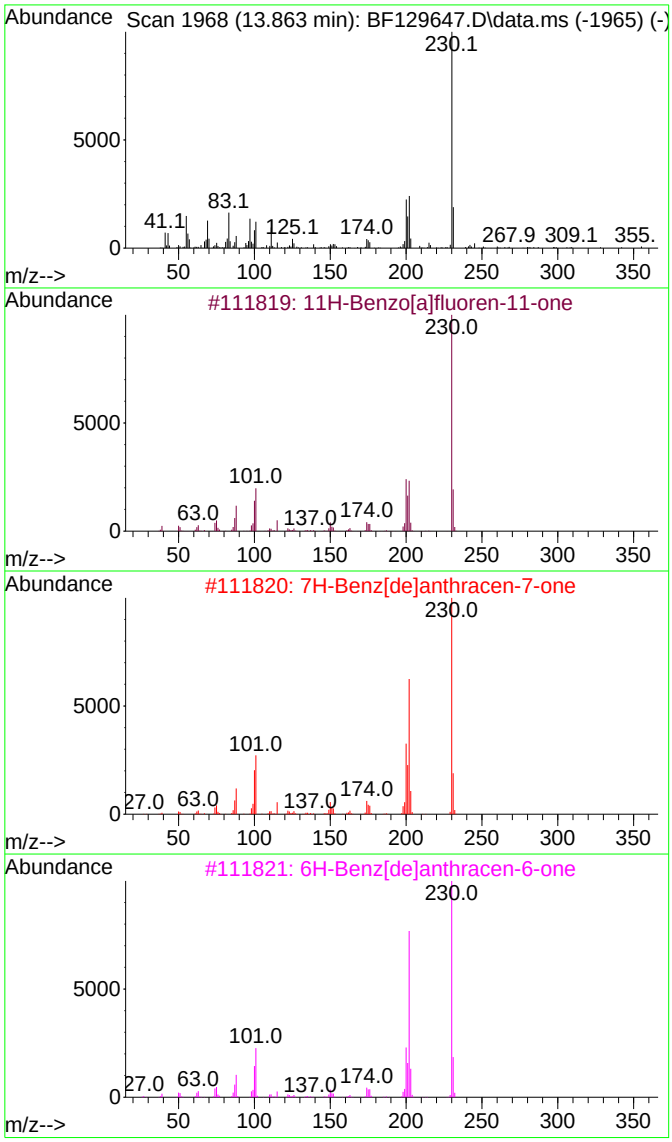
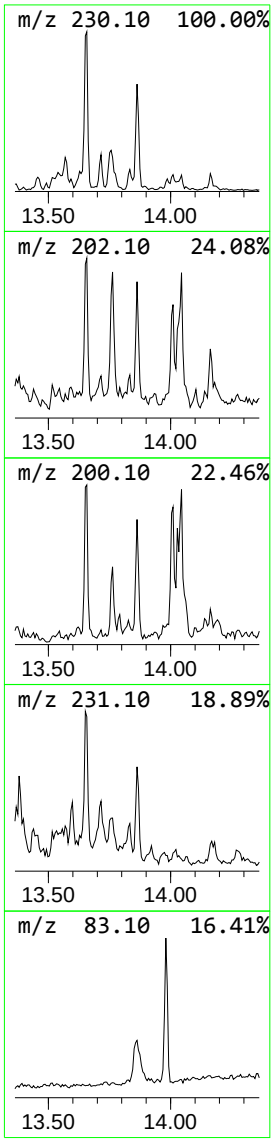
Peak Number 10 7H-Benz[de]anthracen-7-one Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.863 | 2.67 ng | 244995 | Chrysene-d12 | 14.015 |

| 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 | 81 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 52 |
| 4 | o-Terphenyl | 230 | C18H14 | 000084-15-1 | 50 |
| 5 | 5-Amino-7-imino-4,8-diazatricycl... | 230 | C12H14N4O | 1000388-35-6 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

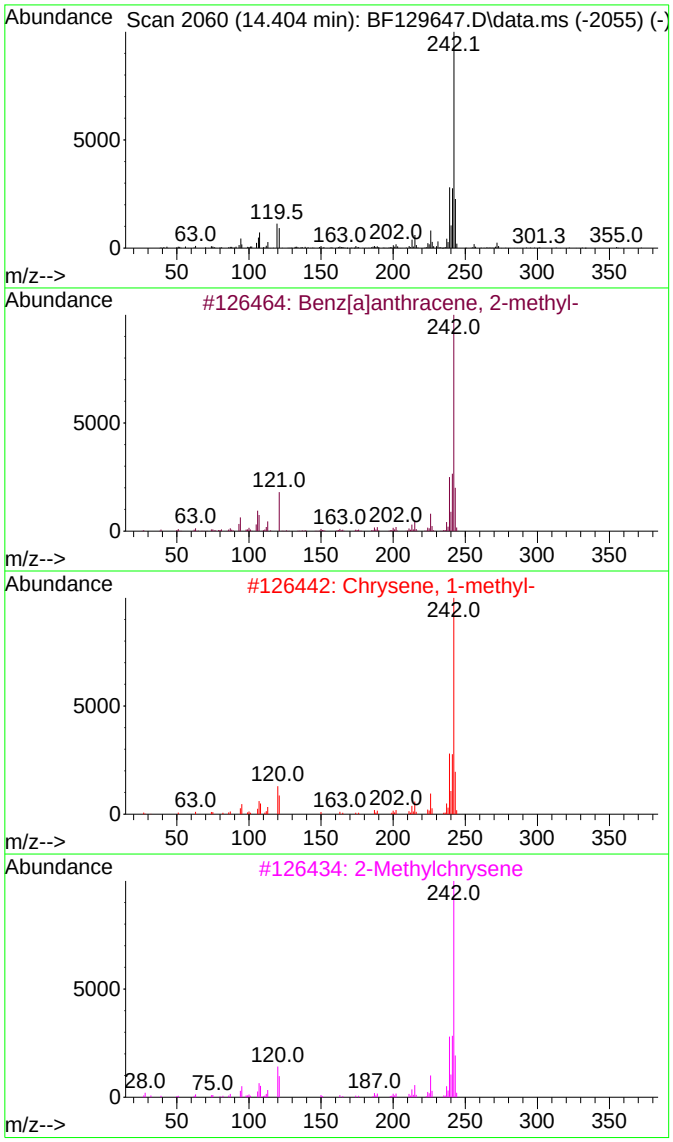
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

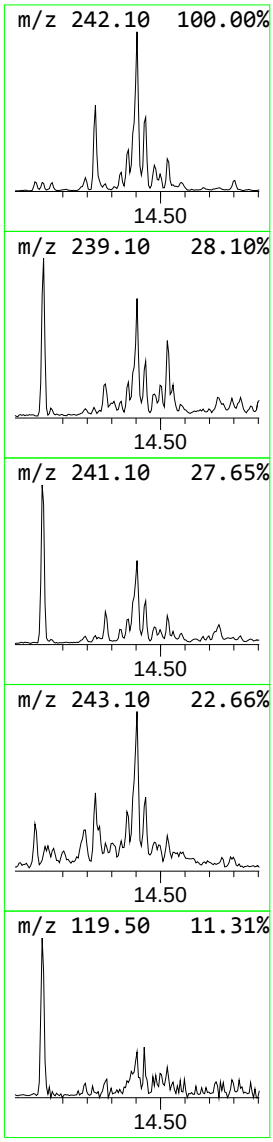
**********

Peak Number 11 Benz[a]anthracene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.404 | 3.21 ng | 294893 | Chrysene-d12 | 14.015 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[a]anthracene, 2-methyl- | 242 | C19H14 | 002498-76-2 | 98 |
| 2 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 94 |
| 3 | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 94 |
| 4 | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 94 |
| 5 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

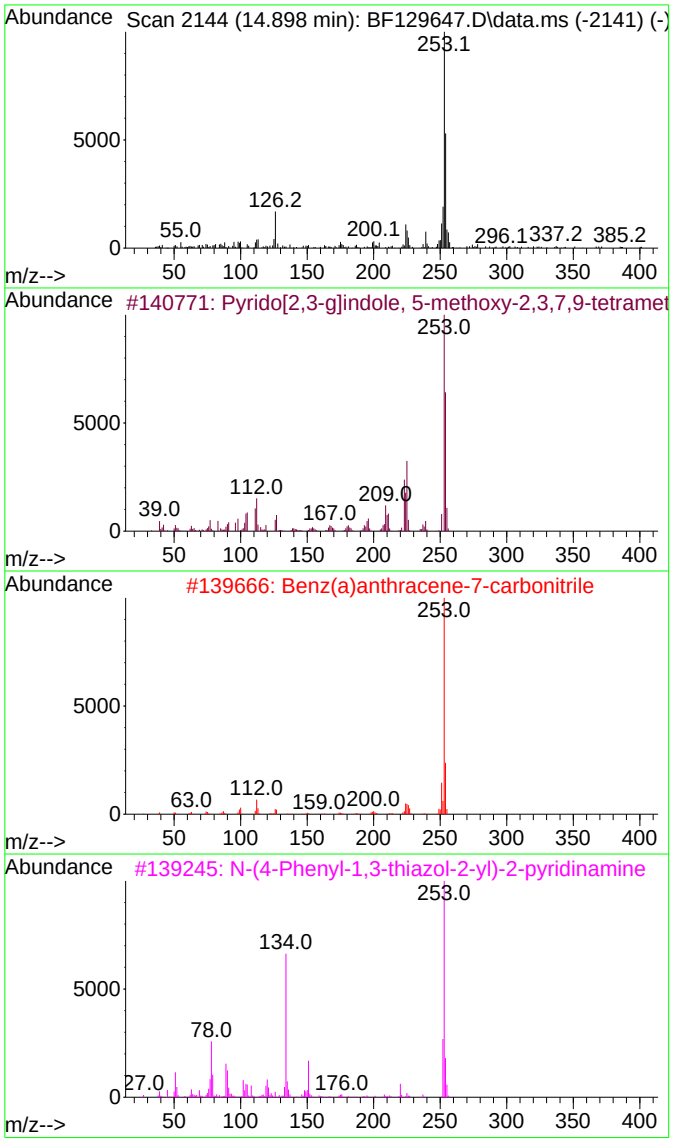
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

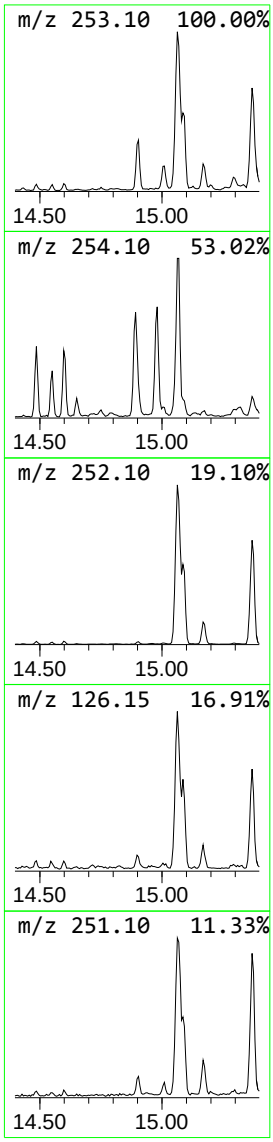
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.898 | 3.64 ng | 160171 | Perylene-d12 | 15.498 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrido[2,3-g]indole, 5-methoxy-2... | 254 | C16H18N2O | 201991-45-9 | 58 |
| 2 | Benz(a)anthracene-7-carbonitrile | 253 | C19H11N | 007476-08-6 | 52 |
| 3 | N-(4-Phenyl-1,3-thiazol-2-yl)-2-... | 253 | C14H11N3S | 1000485-04-5 | 49 |
| 4 | 9,10[1',2']-Benzenoanthracene, 9... | 254 | C20H14 | 000477-75-8 | 49 |
| 5 | Benzimidazol-5-amine, 1-(4-ethox... | 253 | C15H15N3O | 007104-62-3 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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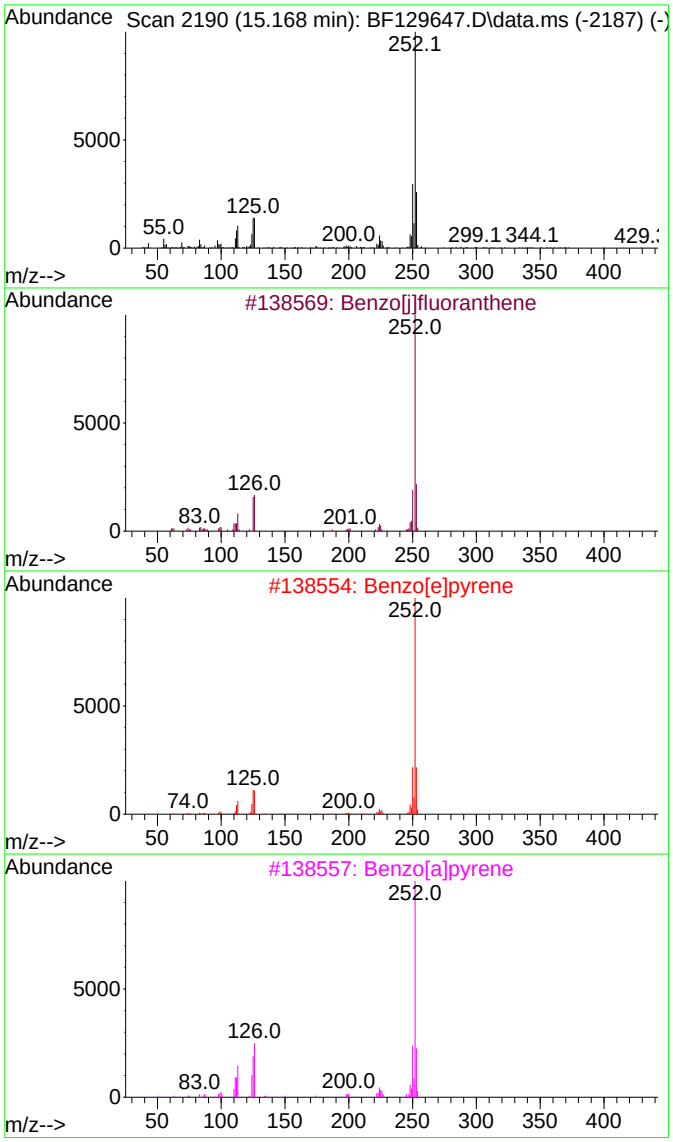
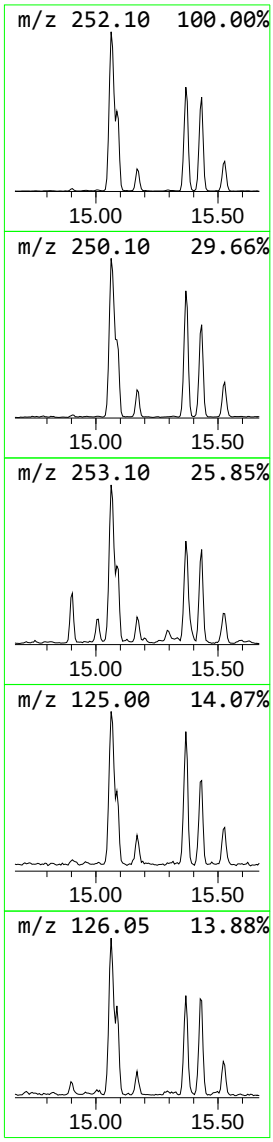
Peak Number 13 Benzo[j]fluoranthene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.168 | 5.06 ng | 222399 | Perylene-d12 | 15.498 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 93 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 91 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 90 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

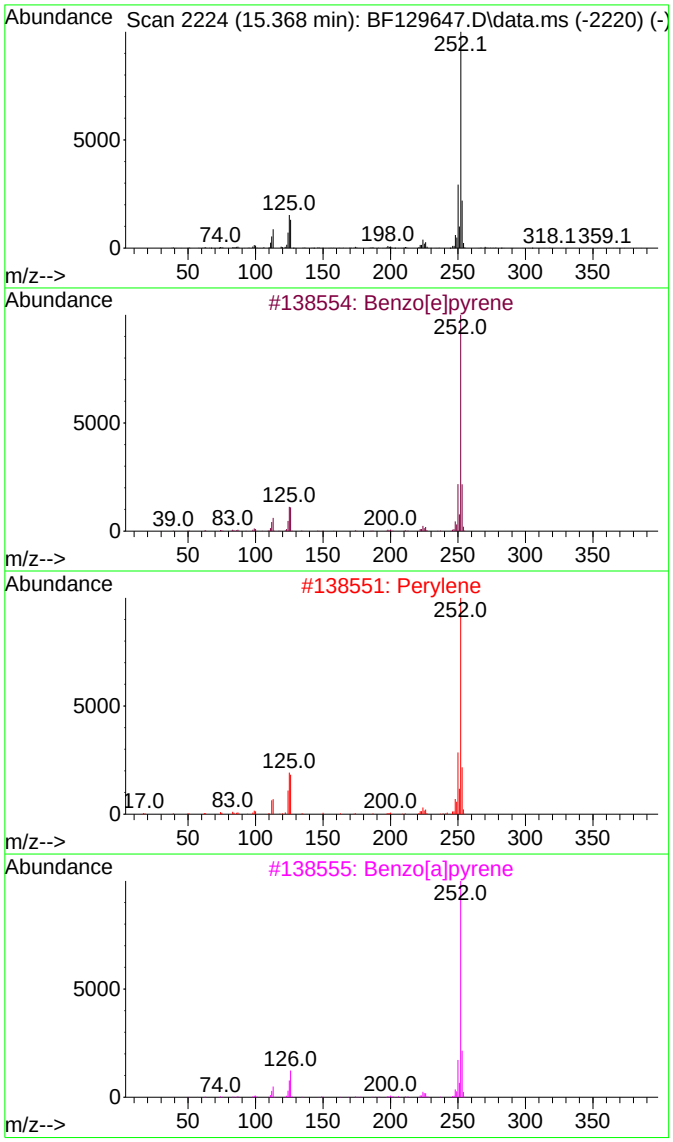
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

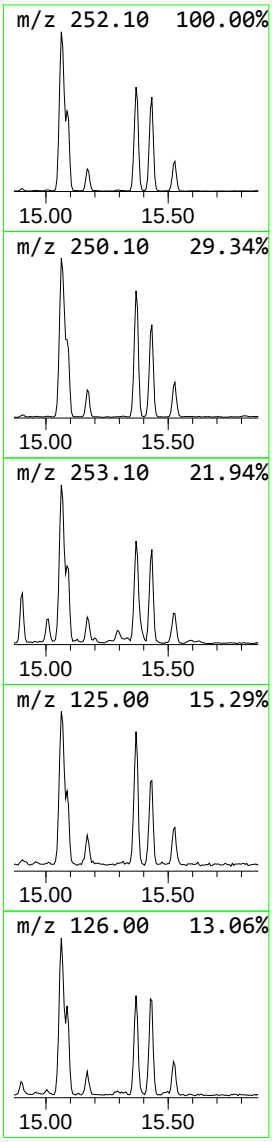
**********

Peak Number 14 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.368 | 22.93 ng | 1008120 | Perylene-d12 | 15.498 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 97 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 97 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 95 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080822\
Data File : BF129647.D
Acq On : 08 Aug 2022 23:57
Operator : CG\JU
Sample : N4089-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
VNJ-228

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Tridecane | 10.780 | 3.3 | ng | 175517 | 4 | 11.369 | 1051430 | 20.0 |
| 4H-Cyclopenta[d... | 11.986 | 3.0 | ng | 158054 | 4 | 11.369 | 1051430 | 20.0 |
| Cyclopenta(def)... | 12.510 | 2.1 | ng | 108197 | 4 | 11.369 | 1051430 | 20.0 |
| Pyrene, 1-methyl- | 13.033 | 2.5 | ng | 227122 | 5 | 14.015 | 1836500 | 20.0 |
| Fluoranthene, 2... | 13.127 | 4.5 | ng | 409560 | 5 | 14.015 | 1836500 | 20.0 |
| Pyrene, 2-methyl- | 13.245 | 2.6 | ng | 237722 | 5 | 14.015 | 1836500 | 20.0 |
| Pyrene, 4-methyl- | 13.339 | 2.3 | ng | 207354 | 5 | 14.015 | 1836500 | 20.0 |
| 11H-Benzo[a]flu... | 13.651 | 2.2 | ng | 203671 | 5 | 14.015 | 1836500 | 20.0 |
| Cyclopenta[cd]p... | 13.816 | 2.2 | ng | 202417 | 5 | 14.015 | 1836500 | 20.0 |
| 7H-Benz[de]anth... | 13.863 | 2.7 | ng | 244995 | 5 | 14.015 | 1836500 | 20.0 |
| Benz[a]anthrace... | 14.404 | 3.2 | ng | 294893 | 5 | 14.015 | 1836500 | 20.0 |
| Pyrido[2,3-g]in... | 14.898 | 3.6 | ng | 160171 | 6 | 15.498 | 879437 | 20.0 |
| Benzo[j]fluoran... | 15.168 | 5.1 | ng | 222399 | 6 | 15.498 | 879437 | 20.0 |
| Benzo[e]pyrene | 15.368 | 22.9 | ng | 1008120 | 6 | 15.498 | 879437 | 20.0 |