

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
 Data File : BF141396.D  
 Acq On : 04 Feb 2025 03:28  
 Operator : RC/JU  
 Sample : Q1254-01 10X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-02-01312025

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-BF012925.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141396.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.799       | 285           | 290         | 298          | rVB      | 4432           | 8537          | 1.13%           | 0.111%        |
| 2         | 5.422       | 561           | 566         | 579          | rVB      | 125503         | 177066        | 23.41%          | 2.305%        |
| 3         | 6.440       | 734           | 739         | 751          | rBV      | 119269         | 181751        | 24.02%          | 2.366%        |
| 4         | 6.628       | 766           | 771         | 777          | rBV3     | 11181          | 16200         | 2.14%           | 0.211%        |
| 5         | 6.792       | 794           | 799         | 807          | rBV      | 437392         | 552391        | 73.02%          | 7.190%        |
| 6         | 7.069       | 839           | 846         | 849          | rBV6     | 5597           | 9597          | 1.27%           | 0.125%        |
| 7         | 7.110       | 849           | 853         | 861          | rVV3     | 4797           | 10547         | 1.39%           | 0.137%        |
| 8         | 7.187       | 861           | 866         | 875          | rVB5     | 6126           | 11427         | 1.51%           | 0.149%        |
| 9         | 7.351       | 885           | 894         | 898          | rBV      | 86684          | 120202        | 15.89%          | 1.565%        |
| 10        | 7.392       | 898           | 901         | 905          | rVV      | 18221          | 22763         | 3.01%           | 0.296%        |
| 11        | 7.445       | 905           | 910         | 914          | rVV4     | 9639           | 13003         | 1.72%           | 0.169%        |
| 12        | 7.598       | 926           | 936         | 945          | rVB6     | 9031           | 26903         | 3.56%           | 0.350%        |
| 13        | 7.698       | 945           | 953         | 954          | rBV4     | 5495           | 8379          | 1.11%           | 0.109%        |
| 14        | 7.822       | 967           | 974         | 978          | rBV5     | 11097          | 25195         | 3.33%           | 0.328%        |
| 15        | 8.075       | 1005          | 1017        | 1025         | rBV      | 531238         | 756508        | 100.00%         | 9.847%        |
| 16        | 8.139       | 1025          | 1028        | 1031         | rVV      | 13588          | 19037         | 2.52%           | 0.248%        |
| 17        | 8.169       | 1031          | 1033        | 1041         | rVB6     | 5014           | 7968          | 1.05%           | 0.104%        |
| 18        | 8.369       | 1062          | 1067        | 1073         | rBV6     | 9420           | 16172         | 2.14%           | 0.210%        |
| 19        | 8.457       | 1079          | 1082        | 1085         | rVB3     | 7068           | 8202          | 1.08%           | 0.107%        |
| 20        | 8.498       | 1085          | 1089        | 1094         | rBV      | 10612          | 17141         | 2.27%           | 0.223%        |
| 21        | 8.581       | 1099          | 1103        | 1107         | rBV3     | 11124          | 13150         | 1.74%           | 0.171%        |
| 22        | 8.669       | 1114          | 1118        | 1122         | rBV      | 35891          | 43516         | 5.75%           | 0.566%        |
| 23        | 8.786       | 1134          | 1138        | 1143         | rVB      | 49902          | 64085         | 8.47%           | 0.834%        |
| 24        | 8.886       | 1150          | 1155        | 1163         | rBV      | 70142          | 95982         | 12.69%          | 1.249%        |
| 25        | 9.028       | 1176          | 1179        | 1184         | rVB5     | 6629           | 10235         | 1.35%           | 0.133%        |
| 26        | 9.098       | 1188          | 1191        | 1195         | rVB2     | 12866          | 15251         | 2.02%           | 0.199%        |
| 27        | 9.151       | 1195          | 1200        | 1205         | rBV      | 150430         | 183641        | 24.27%          | 2.390%        |
| 28        | 9.233       | 1209          | 1214        | 1221         | rBV2     | 45732          | 72995         | 9.65%           | 0.950%        |
| 29        | 9.351       | 1231          | 1234        | 1239         | rVB      | 10235          | 14000         | 1.85%           | 0.182%        |
| 30        | 9.416       | 1240          | 1245        | 1250         | rBV      | 36874          | 59370         | 7.85%           | 0.773%        |
| 31        | 9.486       | 1252          | 1257        | 1260         | rVV      | 67037          | 98933         | 13.08%          | 1.288%        |
| 32        | 9.516       | 1260          | 1262        | 1265         | rVV      | 44937          | 49287         | 6.52%           | 0.642%        |
| 33        | 9.551       | 1265          | 1268        | 1271         | rVV3     | 21006          | 29970         | 3.96%           | 0.390%        |
| 34        | 9.610       | 1274          | 1278        | 1287         | rVB      | 35166          | 58129         | 7.68%           | 0.757%        |
| 35        | 9.692       | 1287          | 1292        | 1296         | rBV      | 31350          | 43021         | 5.69%           | 0.560%        |
| 36        | 9.763       | 1297          | 1304        | 1308         | rBV      | 42854          | 57258         | 7.57%           | 0.745%        |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-02-01312025

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-BF012925.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 9.828  | 1308 | 1315 | 1319 | rBV  | 483496 | 632698 | 83.63% | 8.235% |
| 38 | 9.863  | 1319 | 1321 | 1325 | rVB  | 36094  | 37608  | 4.97%  | 0.489% |
| 39 | 9.939  | 1330 | 1334 | 1338 | rVB2 | 15523  | 21379  | 2.83%  | 0.278% |
| 40 | 10.033 | 1338 | 1350 | 1354 | rBV2 | 40025  | 84740  | 11.20% | 1.103% |
| 41 | 10.075 | 1354 | 1357 | 1364 | rVB3 | 23828  | 35487  | 4.69%  | 0.462% |
| 42 | 10.145 | 1365 | 1369 | 1372 | rBV2 | 21917  | 28772  | 3.80%  | 0.374% |
| 43 | 10.175 | 1372 | 1374 | 1378 | rVB  | 13956  | 13471  | 1.78%  | 0.175% |
| 44 | 10.263 | 1380 | 1389 | 1395 | rBV3 | 49992  | 97177  | 12.85% | 1.265% |
| 45 | 10.328 | 1396 | 1400 | 1404 | rBV4 | 9901   | 16073  | 2.12%  | 0.209% |
| 46 | 10.375 | 1404 | 1408 | 1415 | rVB2 | 66654  | 94044  | 12.43% | 1.224% |
| 47 | 10.539 | 1432 | 1436 | 1440 | rVB2 | 18439  | 25739  | 3.40%  | 0.335% |
| 48 | 10.616 | 1444 | 1449 | 1454 | rBV2 | 72070  | 108577 | 14.35% | 1.413% |
| 49 | 10.739 | 1466 | 1470 | 1477 | rVB2 | 57813  | 88419  | 11.69% | 1.151% |
| 50 | 10.922 | 1497 | 1501 | 1504 | rBV  | 34909  | 55382  | 7.32%  | 0.721% |
| 51 | 10.951 | 1504 | 1506 | 1512 | rVV3 | 29038  | 40251  | 5.32%  | 0.524% |
| 52 | 11.010 | 1513 | 1516 | 1519 | rVB  | 16598  | 19472  | 2.57%  | 0.253% |
| 53 | 11.186 | 1542 | 1546 | 1548 | rBV  | 30631  | 42134  | 5.57%  | 0.548% |
| 54 | 11.216 | 1548 | 1551 | 1557 | rVB  | 45527  | 62065  | 8.20%  | 0.808% |
| 55 | 11.316 | 1563 | 1568 | 1571 | rBV  | 449781 | 666513 | 88.10% | 8.675% |
| 56 | 11.392 | 1577 | 1581 | 1584 | rVB  | 42028  | 52712  | 6.97%  | 0.686% |
| 57 | 11.427 | 1584 | 1587 | 1590 | rBV2 | 19414  | 25155  | 3.33%  | 0.327% |
| 58 | 11.551 | 1605 | 1608 | 1614 | rBV3 | 22362  | 36496  | 4.82%  | 0.475% |
| 59 | 11.616 | 1615 | 1619 | 1622 | rVV  | 30301  | 41809  | 5.53%  | 0.544% |
| 60 | 11.645 | 1622 | 1624 | 1631 | rVB  | 22940  | 34245  | 4.53%  | 0.446% |
| 61 | 11.822 | 1650 | 1654 | 1656 | rBV  | 74829  | 104913 | 13.87% | 1.366% |
| 62 | 11.845 | 1656 | 1658 | 1663 | rVB  | 102468 | 115946 | 15.33% | 1.509% |
| 63 | 11.898 | 1664 | 1667 | 1668 | rBV  | 17440  | 20056  | 2.65%  | 0.261% |
| 64 | 11.927 | 1668 | 1672 | 1681 | rVB2 | 113761 | 252335 | 33.36% | 3.284% |
| 65 | 12.022 | 1685 | 1688 | 1691 | rBV  | 28382  | 35245  | 4.66%  | 0.459% |
| 66 | 12.116 | 1701 | 1704 | 1707 | rBV  | 28828  | 42778  | 5.65%  | 0.557% |
| 67 | 12.298 | 1732 | 1735 | 1742 | rVB3 | 33861  | 64380  | 8.51%  | 0.838% |
| 68 | 12.369 | 1743 | 1747 | 1750 | rBV  | 80362  | 115920 | 15.32% | 1.509% |
| 69 | 12.404 | 1750 | 1753 | 1759 | rVB4 | 73177  | 129776 | 17.15% | 1.689% |
| 70 | 12.527 | 1770 | 1774 | 1779 | rBV  | 180496 | 246709 | 32.61% | 3.211% |
| 71 | 12.757 | 1809 | 1813 | 1820 | rBV  | 208144 | 320641 | 42.38% | 4.173% |
| 72 | 12.904 | 1834 | 1838 | 1845 | rVB  | 131370 | 191663 | 25.34% | 2.495% |
| 73 | 13.957 | 2013 | 2017 | 2025 | rVB2 | 356803 | 523683 | 69.22% | 6.816% |
| 74 | 15.410 | 2260 | 2264 | 2268 | rBV  | 172339 | 240670 | 31.81% | 3.133% |

Sum of corrected areas: 7682945

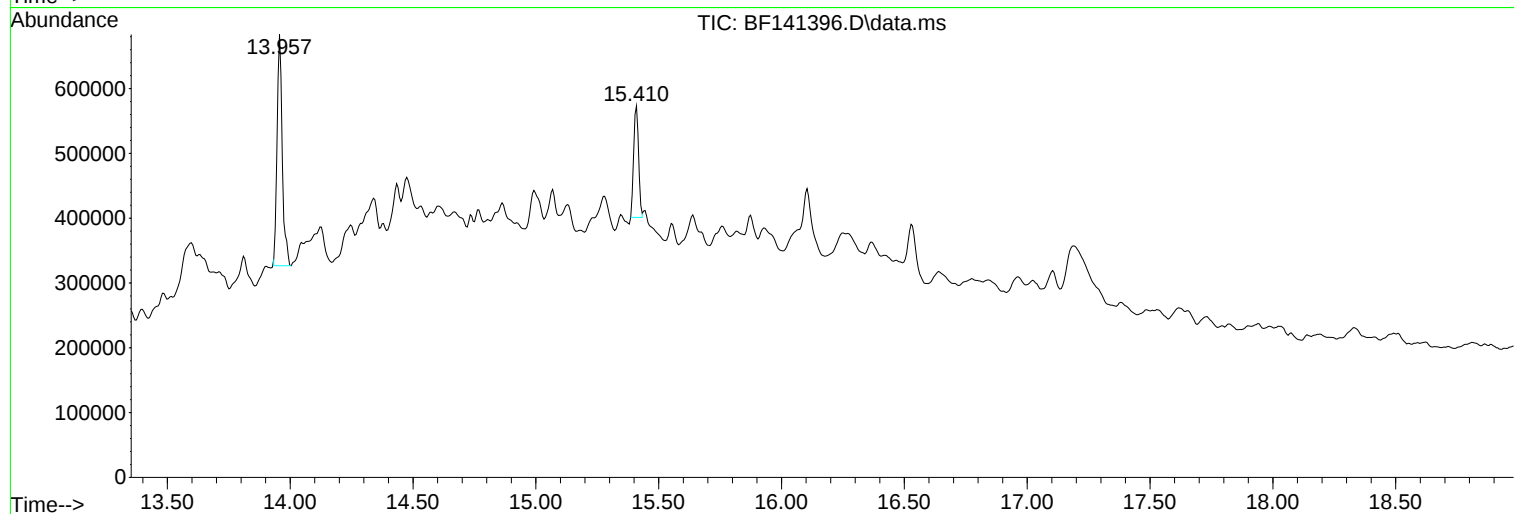
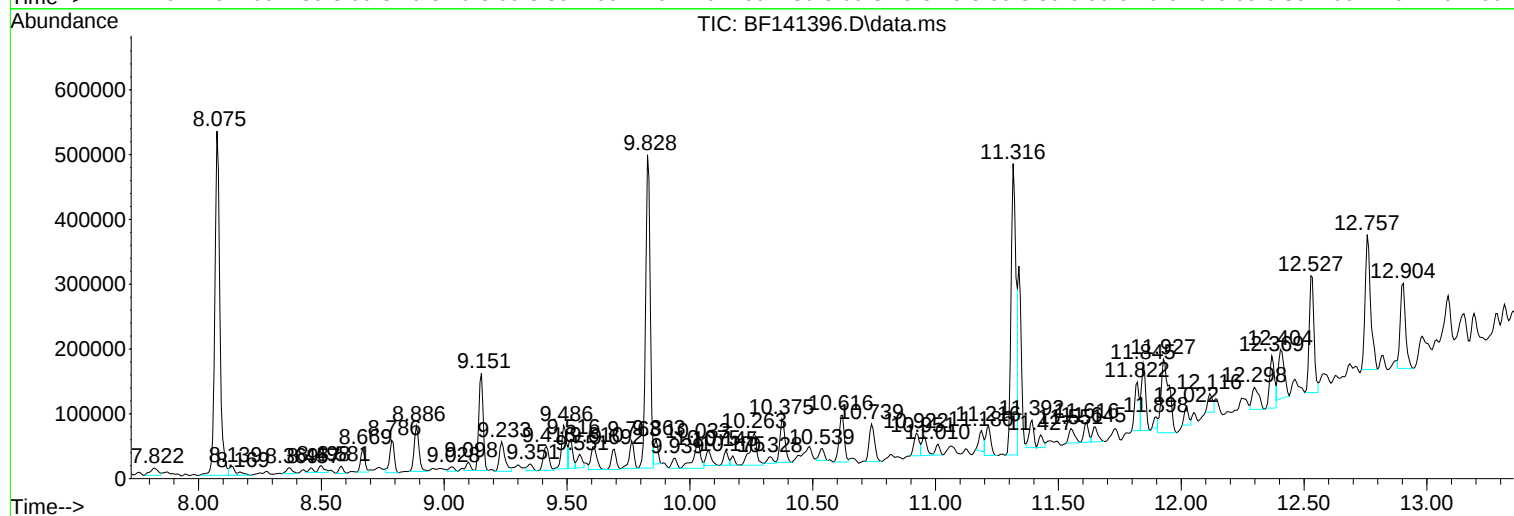
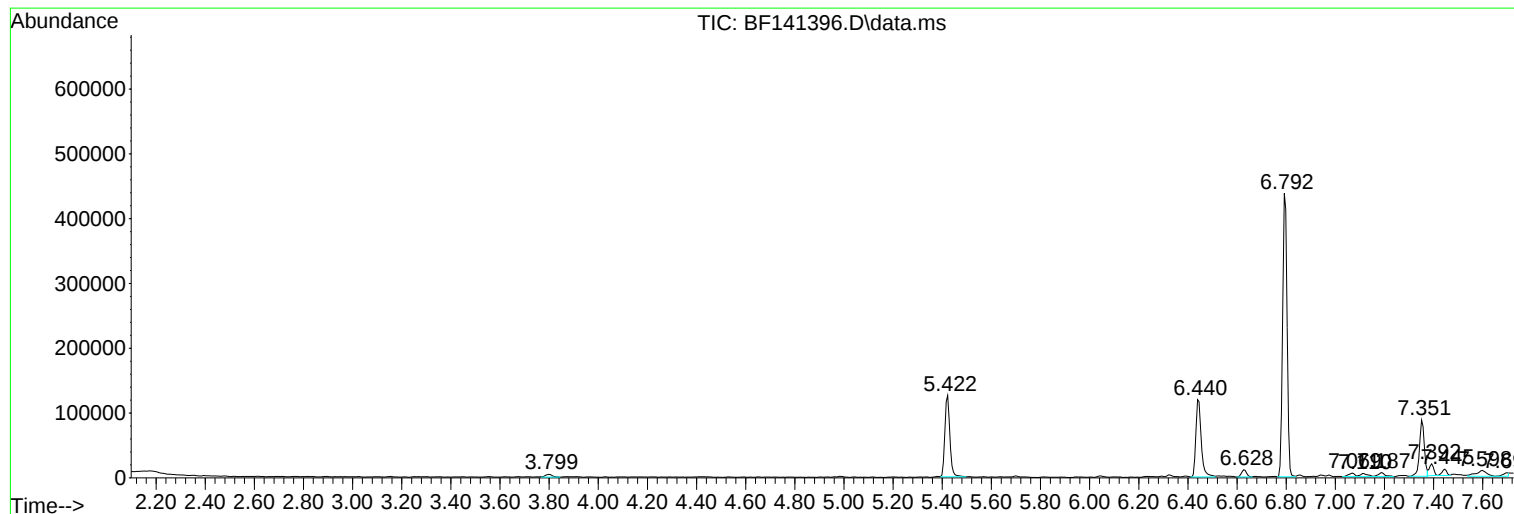
**Instrument :**  
BNA\_F  
**ClientSampleId :**  
OK-02-01312025

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
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Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.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\BF020325\  
Data File : BF141396.D  
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Operator : RC/JU  
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Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

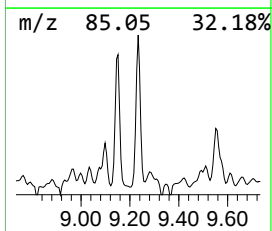
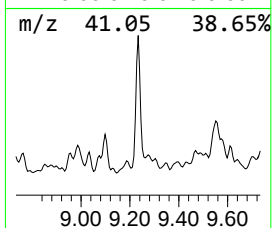
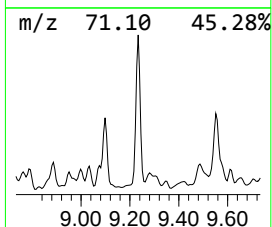
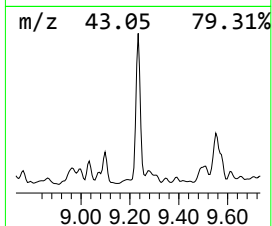
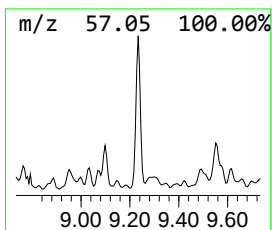
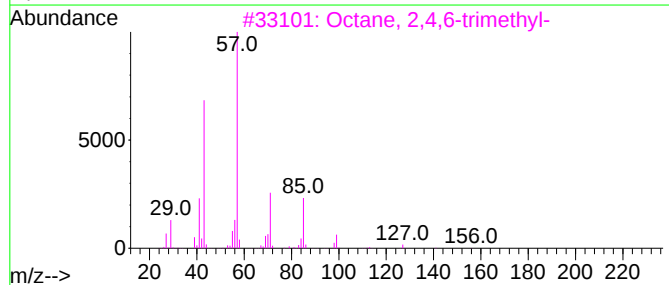
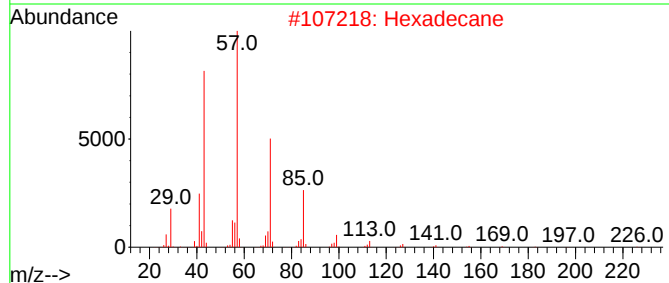
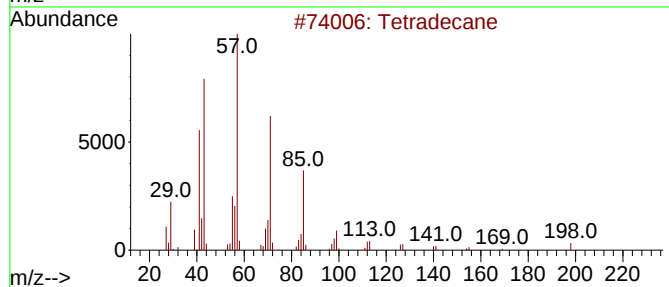
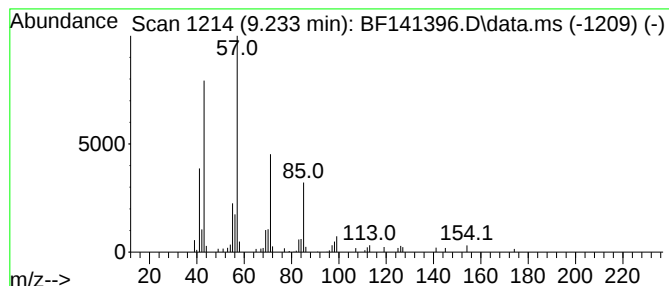
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Tetradecane Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 9.233 | 2.31 ng | 72995 | Acenaphthene-d10 | 9.828 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | Tetradecane              | 198 | C14H30  | 000629-59-4 | 90   |
| 2    |      | Hexadecane               | 226 | C16H34  | 000544-76-3 | 90   |
| 3    |      | Octane, 2,4,6-trimethyl- | 156 | C11H24  | 062016-37-9 | 90   |
| 4    |      | Nonadecane               | 268 | C19H40  | 000629-92-5 | 86   |
| 5    |      | Undecane                 | 156 | C11H24  | 001120-21-4 | 86   |



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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
OK-02-01312025

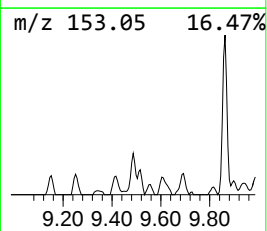
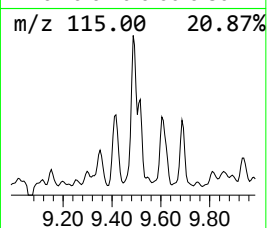
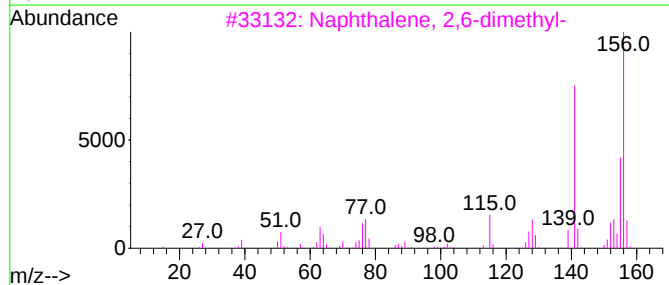
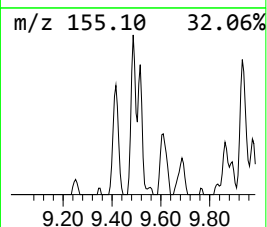
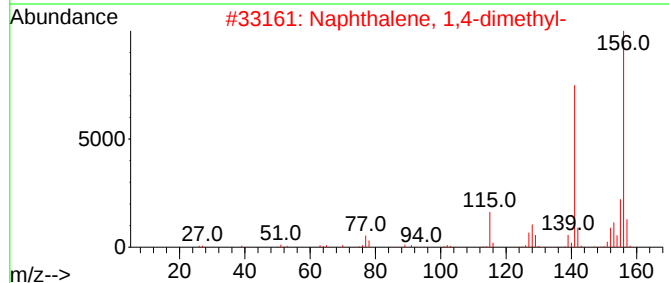
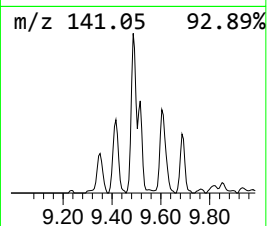
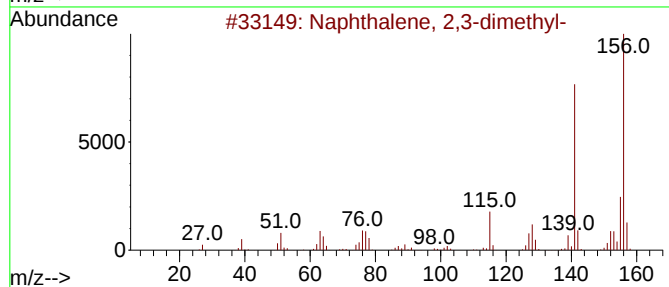
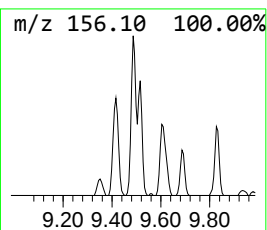
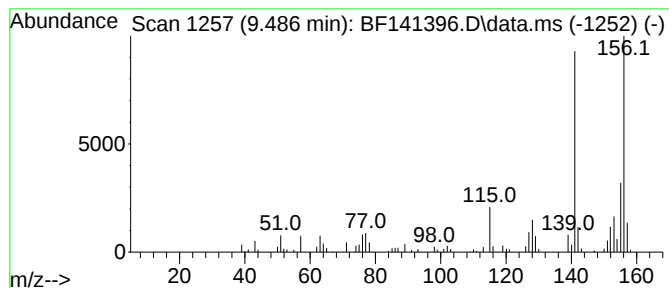
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 9.486 | 3.13 ng | 98933 | Acenaphthene-d10 | 9.828 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 3    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 5    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |



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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

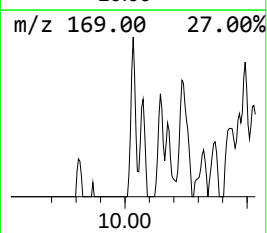
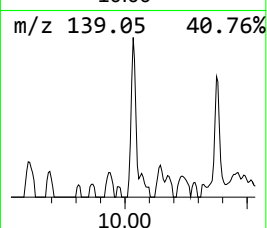
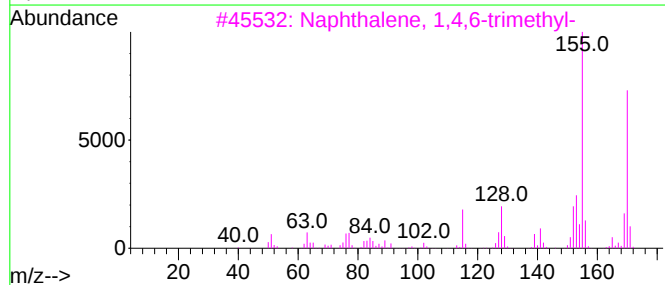
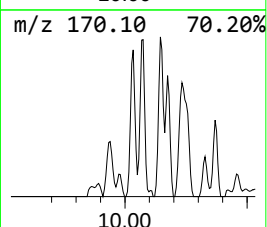
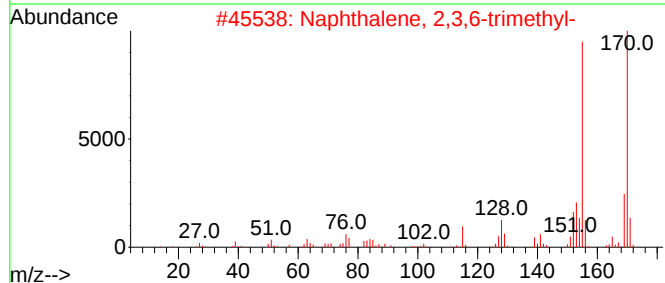
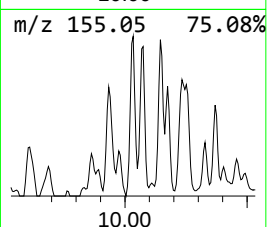
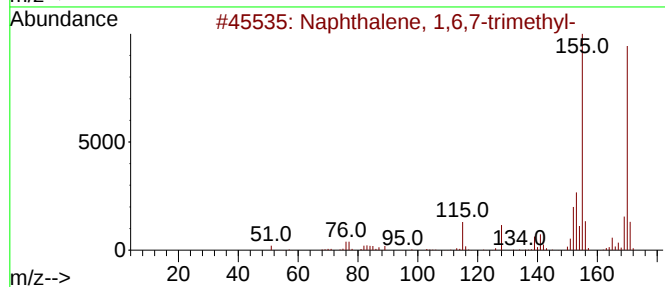
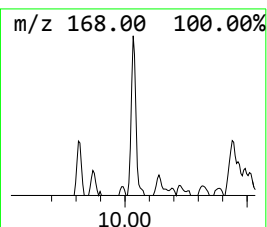
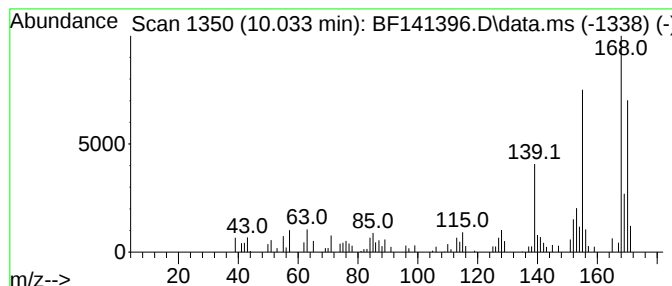
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1,6,7-trimethyl- Concentration Rank 8

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.  |
|--------|---------|-------|------------------|-------|
| 10.033 | 2.68 ng | 84740 | Acenaphthene-d10 | 9.828 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 95   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 3    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 91   |
| 4    |    |   | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 89   |
| 5    |    |   | 4,6,8-Trimethylazulene        | 170 | C13H14  | 000941-81-1 | 70   |



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Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

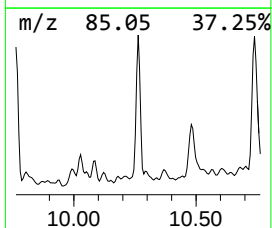
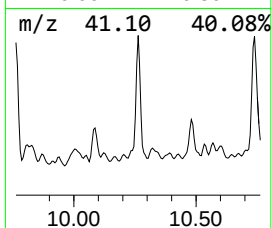
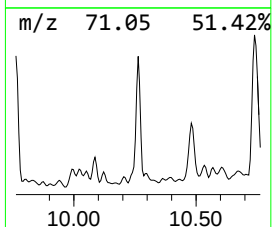
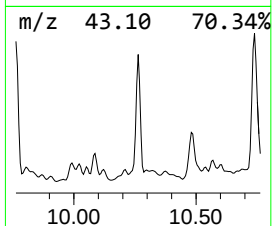
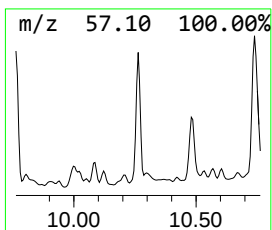
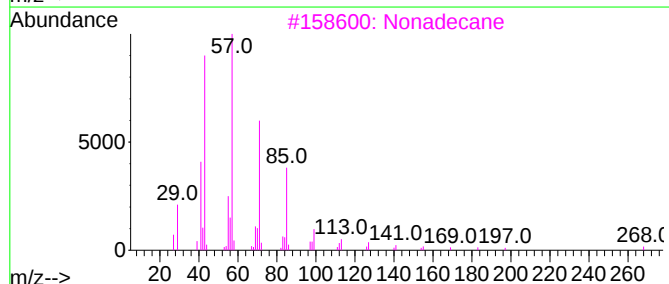
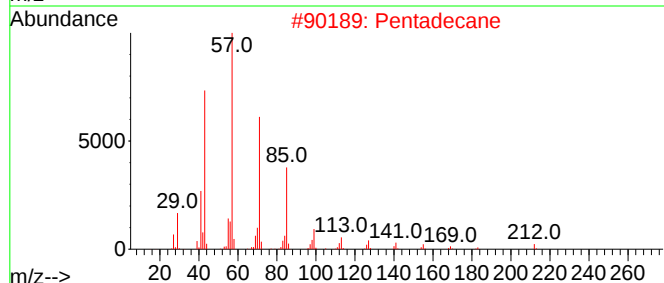
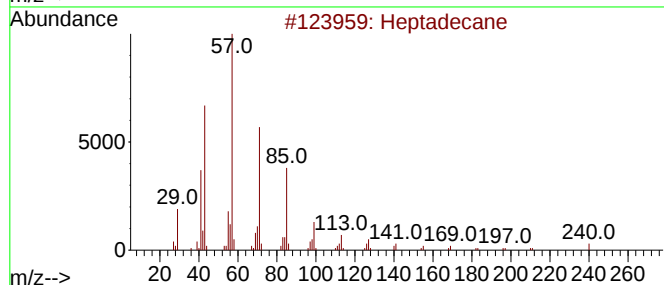
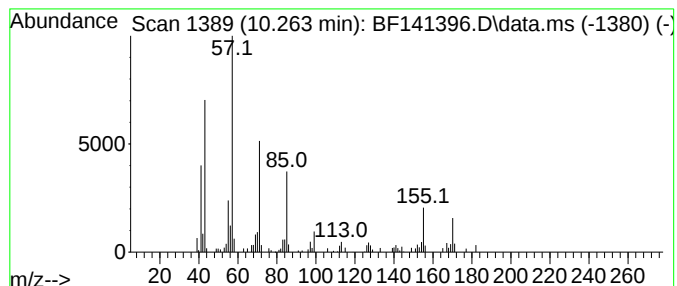
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Heptadecane Concentration Rank 7

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.  |
|--------|---------|-------|------------------|-------|
| 10.263 | 3.07 ng | 97177 | Acenaphthene-d10 | 9.828 |

| Hit# | of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------|--------------|-----|---------|-------------|------|
| 1    |      | Heptadecane  | 240 | C17H36  | 000629-78-7 | 58   |
| 2    |      | Pentadecane  | 212 | C15H32  | 000629-62-9 | 58   |
| 3    |      | Nonadecane   | 268 | C19H40  | 000629-92-5 | 58   |
| 4    |      | Eicosane     | 282 | C20H42  | 000112-95-8 | 58   |
| 5    |      | Heptacosane  | 380 | C27H56  | 000593-49-7 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

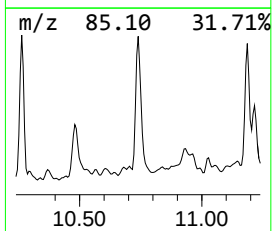
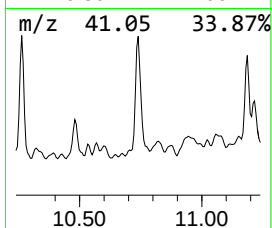
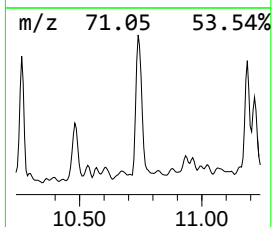
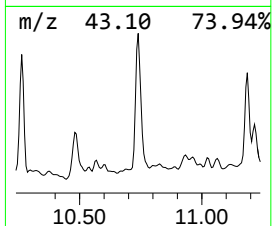
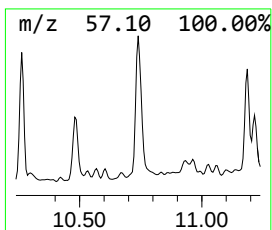
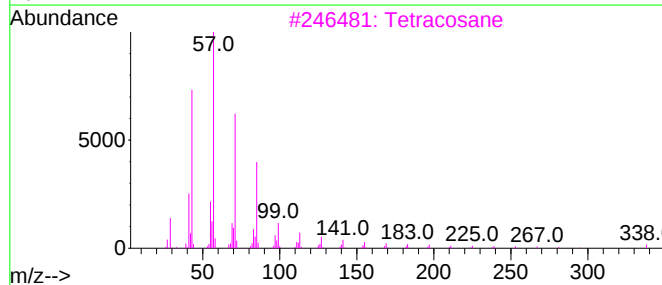
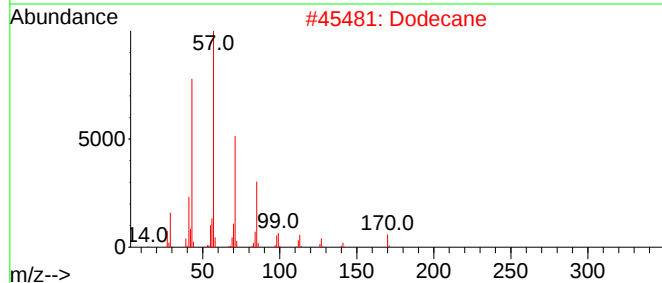
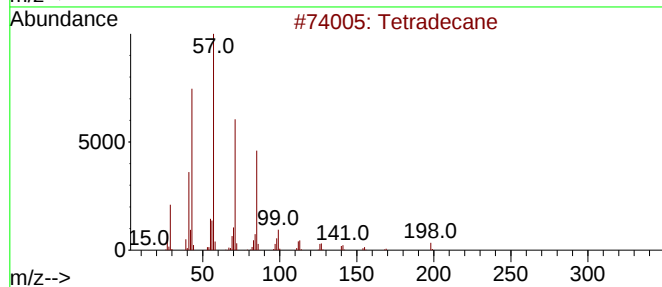
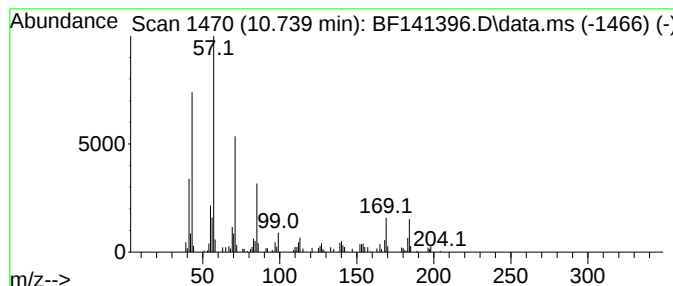
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Dodecane Concentration Rank 9

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 10.739 | 2.65 ng | 88419 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 86   |
| 2    |    |   | Dodecane     | 170 | C12H26  | 000112-40-3 | 62   |
| 3    |    |   | Tetracosane  | 338 | C24H50  | 000646-31-1 | 62   |
| 4    |    |   | Eicosane     | 282 | C20H42  | 000112-95-8 | 62   |
| 5    |    |   | Heptacosane  | 380 | C27H56  | 000593-49-7 | 62   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

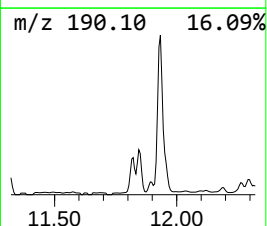
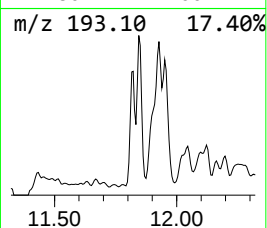
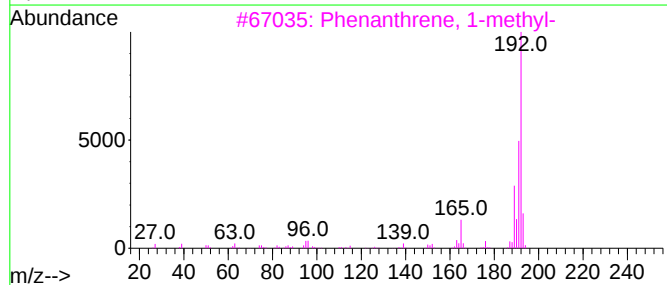
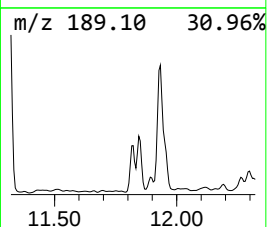
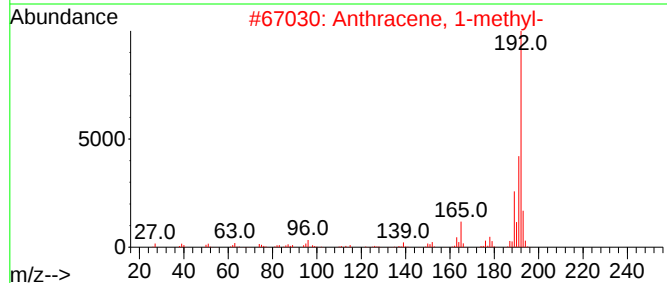
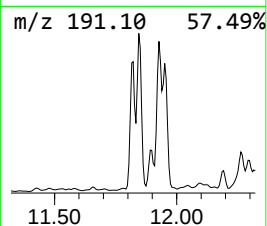
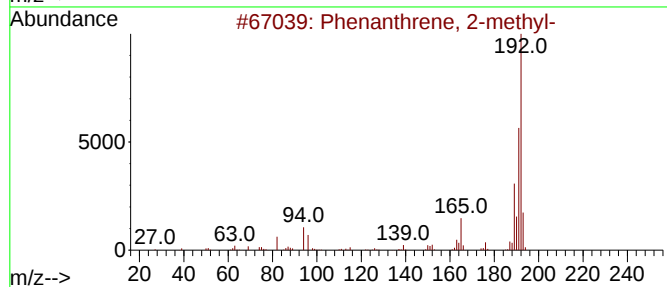
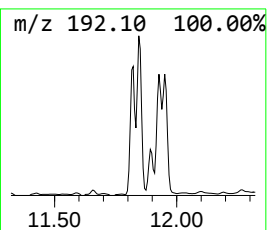
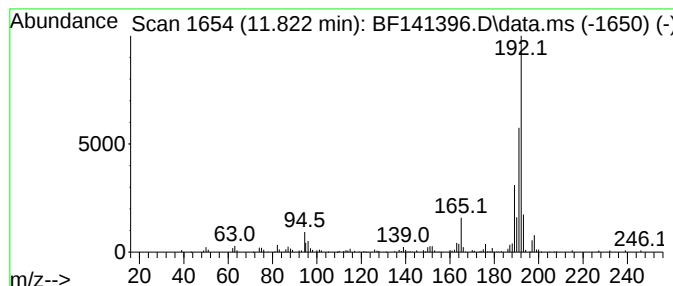
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.822 | 3.15 ng | 104913 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 96   |
| 3    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 93   |
| 4    |    |   | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 93   |
| 5    |    |   | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

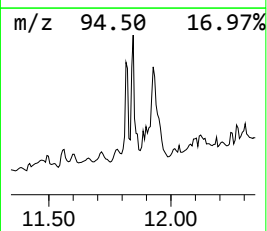
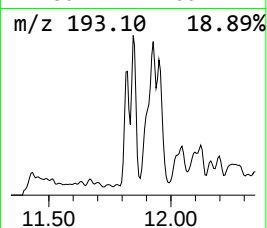
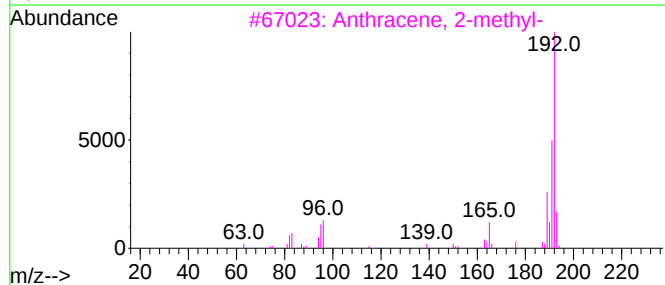
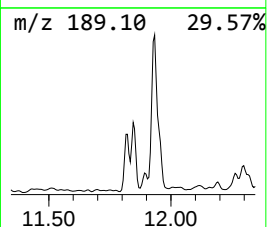
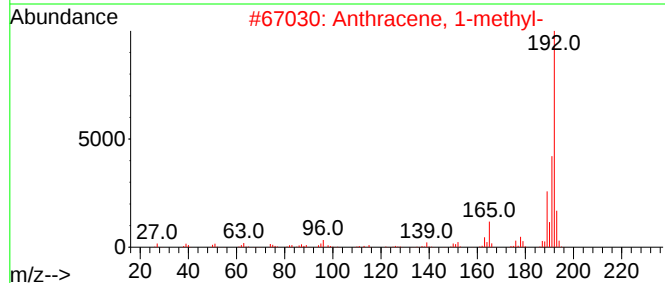
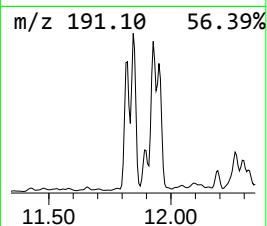
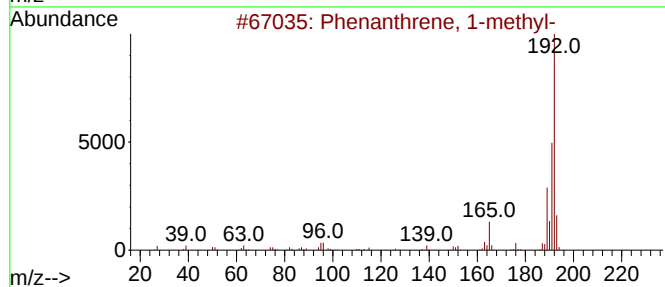
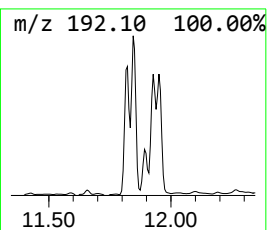
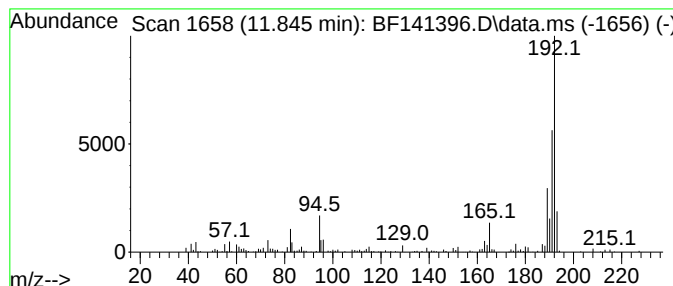
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.845 | 3.48 ng | 115946 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 2    |    |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 94   |
| 3    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 93   |
| 4    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 93   |
| 5    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

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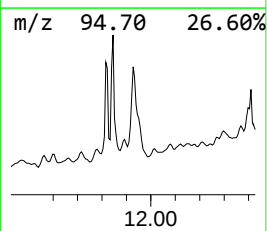
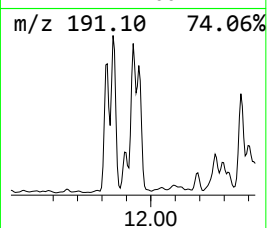
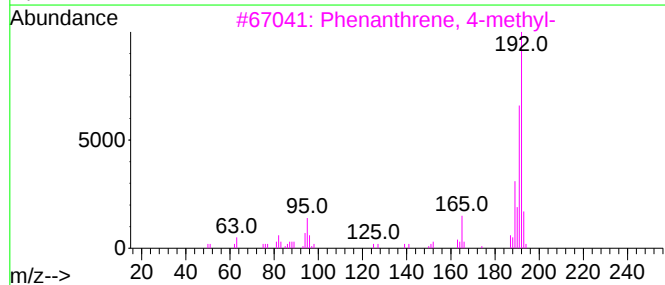
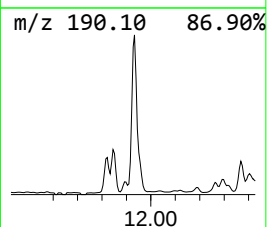
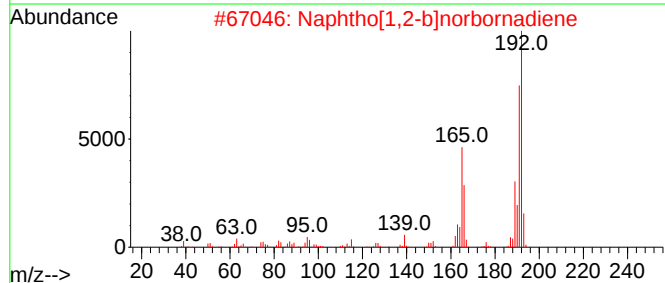
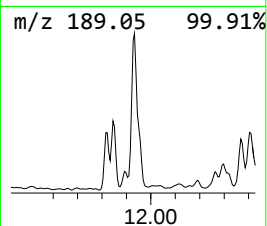
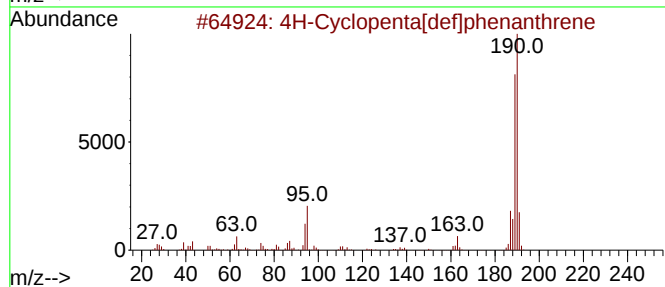
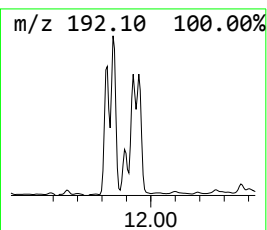
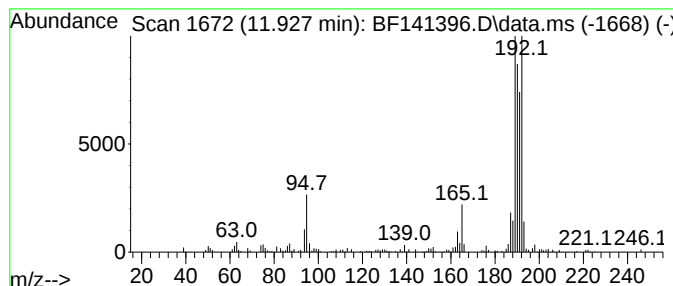
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.927 | 7.57 ng | 252335 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------------|-----|---------|--------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5  | 83   |
| 2    |    |   | Naphtho[1,2-b]norbornadiene    | 192 | C15H12  | 1000210-14-8 | 55   |
| 3    |    |   | Phenanthrene, 4-methyl-        | 192 | C15H12  | 000832-64-4  | 55   |
| 4    |    |   | 5H-Dibenzo[a,d]cycloheptene    | 192 | C15H12  | 000256-81-5  | 50   |
| 5    |    |   | 1H-Indene, 2-phenyl-           | 192 | C15H12  | 004505-48-0  | 45   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

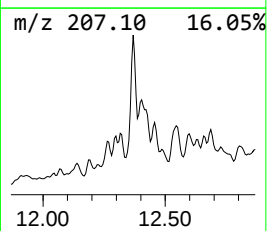
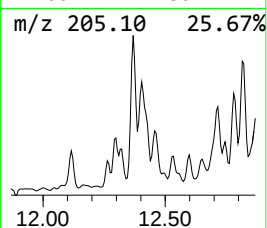
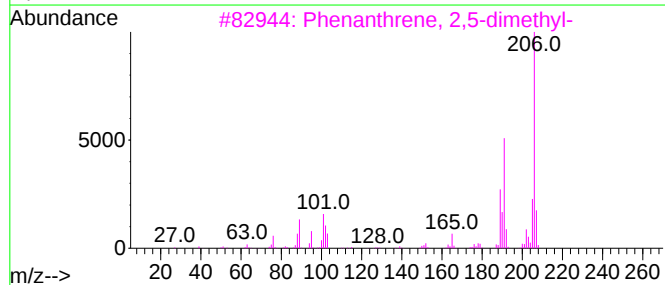
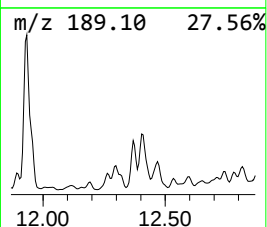
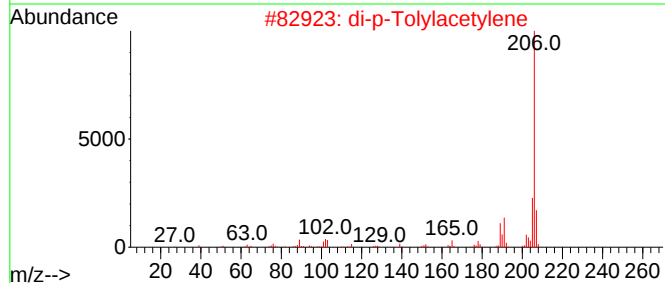
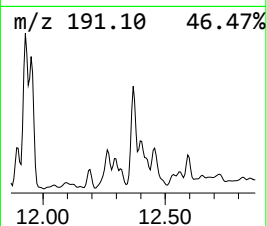
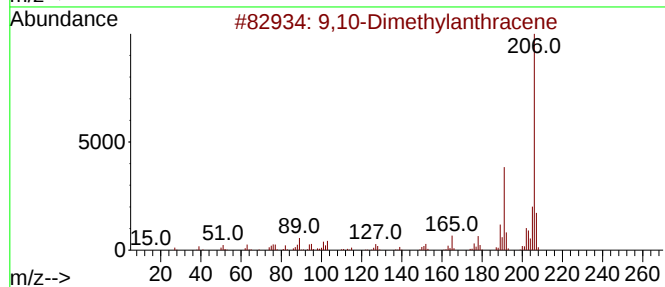
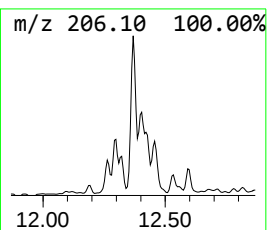
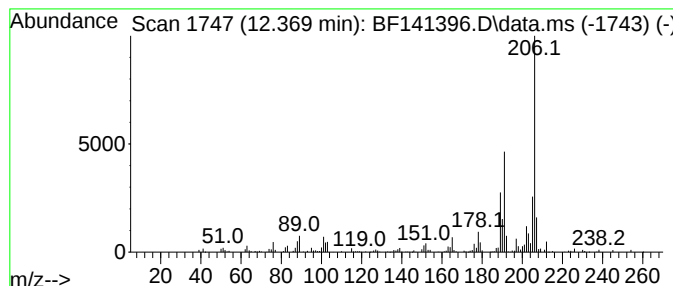
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 9,10-Dimethylantracene Concentration Rank 4

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.369 | 3.48 ng | 115920 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 2    |    |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 93   |
| 3    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 4    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 92   |
| 5    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
Data File : BF141396.D  
Acq On : 04 Feb 2025 03:28  
Operator : RC/JU  
Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

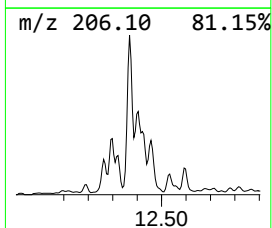
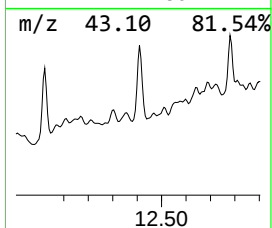
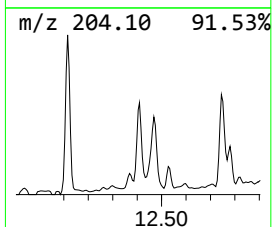
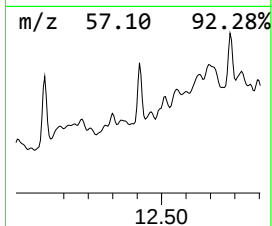
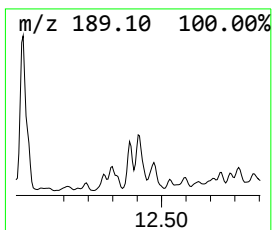
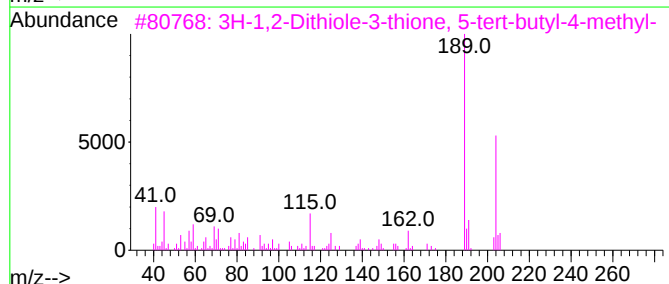
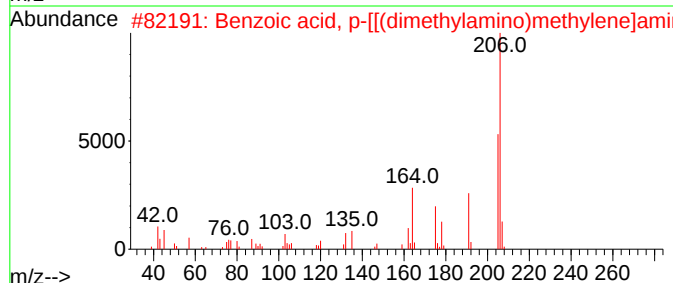
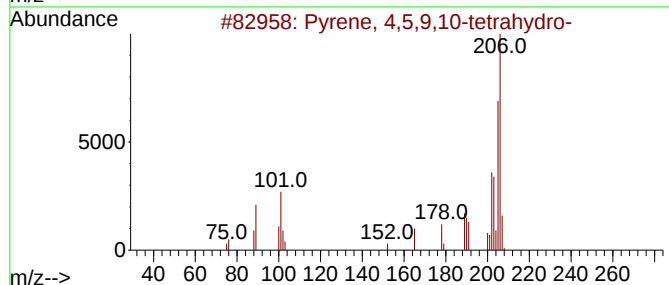
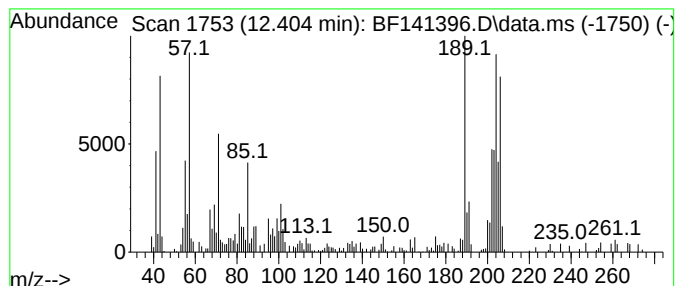
Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|-------------|--------------|------|
| 12.404    | 3.89 ng                             | 129776 | Phenanthrene-d10 |             | 11.316       |      |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm     | CAS#         | Qual |
| 1         | Pyrene, 4,5,9,10-tetrahydro-        |        | 206              | C16H14      | 000781-17-9  | 51   |
| 2         | Benzoic acid, p-[[dimethylamino...  |        | 206              | C11H14N2O2  | 029390-16-7  | 35   |
| 3         | 3H-1,2-Dithiole-3-thione, 5-tert... |        | 204              | C8H12S3     | 013120-76-8  | 30   |
| 4         | 3,5-Dichloro-2,4-dimethyl-1-meth... |        | 204              | C9H10Cl2O   | 1010250-17-8 | 30   |
| 5         | Glycine, N-(2,2,2-trichloroethox... |        | 277              | C7H10Cl3NO4 | 1000313-51-2 | 25   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020325\  
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Sample : Q1254-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OK-02-01312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Tetradecane        | 9.233  | 2.3     | ng    | 72995    | 3                     | 9.828  | 632698 | 20.0 |
| Naphthalene, 2,... | 9.486  | 3.1     | ng    | 98933    | 3                     | 9.828  | 632698 | 20.0 |
| Naphthalene, 1,... | 10.033 | 2.7     | ng    | 84740    | 3                     | 9.828  | 632698 | 20.0 |
| Heptadecane        | 10.263 | 3.1     | ng    | 97177    | 3                     | 9.828  | 632698 | 20.0 |
| Dodecane           | 10.739 | 2.6     | ng    | 88419    | 4                     | 11.316 | 666513 | 20.0 |
| Phenanthrene, 2... | 11.822 | 3.1     | ng    | 104913   | 4                     | 11.316 | 666513 | 20.0 |
| Phenanthrene, 1... | 11.845 | 3.5     | ng    | 115946   | 4                     | 11.316 | 666513 | 20.0 |
| 4H-Cyclopenta[d... | 11.927 | 7.6     | ng    | 252335   | 4                     | 11.316 | 666513 | 20.0 |
| 9,10-Dimethylan... | 12.369 | 3.5     | ng    | 115920   | 4                     | 11.316 | 666513 | 20.0 |
| Pyrene, 4,5,9,1... | 12.404 | 3.9     | ng    | 129776   | 4                     | 11.316 | 666513 | 20.0 |