

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
 Data File : BF141432.D  
 Acq On : 05 Feb 2025 01:41  
 Operator : RC/JU  
 Sample : Q1281-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02--2-03-2025

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: BF141432.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         | 3.205       | 183           | 189         | 204          | rBV      | 11118          | 41718         | 2.32%           | 0.201%        |
| 2         | 4.993       | 488           | 493         | 503          | rVB      | 13539          | 21660         | 1.21%           | 0.104%        |
| 3         | 5.410       | 559           | 564         | 586          | rVB      | 1195235        | 1595589       | 88.83%          | 7.687%        |
| 4         | 6.428       | 732           | 737         | 751          | rBV      | 1225581        | 1640683       | 91.34%          | 7.905%        |
| 5         | 6.622       | 765           | 770         | 775          | rBV2     | 17605          | 25328         | 1.41%           | 0.122%        |
| 6         | 6.787       | 793           | 798         | 805          | rVB      | 385010         | 491561        | 27.37%          | 2.368%        |
| 7         | 7.351       | 884           | 894         | 898          | rBV      | 834435         | 1081739       | 60.22%          | 5.212%        |
| 8         | 7.387       | 898           | 900         | 904          | rVV      | 38152          | 42244         | 2.35%           | 0.204%        |
| 9         | 7.434       | 904           | 908         | 912          | rVB3     | 12945          | 19649         | 1.09%           | 0.095%        |
| 10        | 7.610       | 930           | 938         | 945          | rVB3     | 42675          | 76017         | 4.23%           | 0.366%        |
| 11        | 7.710       | 945           | 955         | 959          | rBV8     | 10170          | 30430         | 1.69%           | 0.147%        |
| 12        | 7.816       | 966           | 973         | 978          | rBV6     | 15080          | 37407         | 2.08%           | 0.180%        |
| 13        | 8.069       | 1003          | 1016        | 1024         | rBV      | 502977         | 771895        | 42.97%          | 3.719%        |
| 14        | 8.134       | 1024          | 1027        | 1030         | rVB      | 18419          | 23647         | 1.32%           | 0.114%        |
| 15        | 8.292       | 1048          | 1054        | 1060         | rVB4     | 16620          | 30109         | 1.68%           | 0.145%        |
| 16        | 8.363       | 1061          | 1066        | 1072         | rBV6     | 16130          | 29714         | 1.65%           | 0.143%        |
| 17        | 8.492       | 1085          | 1088        | 1094         | rBV      | 21267          | 28283         | 1.57%           | 0.136%        |
| 18        | 8.575       | 1098          | 1102        | 1106         | rBV2     | 20735          | 26318         | 1.47%           | 0.127%        |
| 19        | 8.663       | 1113          | 1117        | 1121         | rBV      | 80212          | 99361         | 5.53%           | 0.479%        |
| 20        | 8.787       | 1135          | 1138        | 1141         | rVB2     | 24232          | 28745         | 1.60%           | 0.138%        |
| 21        | 8.887       | 1150          | 1155        | 1163         | rBV3     | 31629          | 56003         | 3.12%           | 0.270%        |
| 22        | 9.028       | 1176          | 1179        | 1183         | rVB2     | 16480          | 22765         | 1.27%           | 0.110%        |
| 23        | 9.092       | 1187          | 1190        | 1194         | rVB2     | 23997          | 30477         | 1.70%           | 0.147%        |
| 24        | 9.145       | 1194          | 1199        | 1204         | rBV      | 1411115        | 1796217       | 100.00%         | 8.654%        |
| 25        | 9.228       | 1209          | 1213        | 1219         | rBV      | 105619         | 151970        | 8.46%           | 0.732%        |
| 26        | 9.298       | 1222          | 1225        | 1230         | rVB2     | 16926          | 23221         | 1.29%           | 0.112%        |
| 27        | 9.410       | 1239          | 1244        | 1249         | rBV3     | 21936          | 39026         | 2.17%           | 0.188%        |
| 28        | 9.487       | 1250          | 1257        | 1259         | rBV3     | 34212          | 59247         | 3.30%           | 0.285%        |
| 29        | 9.551       | 1263          | 1268        | 1270         | rBV4     | 38618          | 55101         | 3.07%           | 0.265%        |
| 30        | 9.604       | 1275          | 1277        | 1281         | rVB2     | 22165          | 28042         | 1.56%           | 0.135%        |
| 31        | 9.686       | 1287          | 1291        | 1296         | rBV      | 29222          | 40630         | 2.26%           | 0.196%        |
| 32        | 9.763       | 1299          | 1304        | 1308         | rVB      | 103141         | 130513        | 7.27%           | 0.629%        |
| 33        | 9.828       | 1308          | 1315        | 1318         | rBV      | 546400         | 712155        | 39.65%          | 3.431%        |
| 34        | 9.857       | 1318          | 1320        | 1325         | rVB      | 72093          | 85461         | 4.76%           | 0.412%        |
| 35        | 9.934       | 1330          | 1333        | 1337         | rVB3     | 15411          | 19984         | 1.11%           | 0.096%        |
| 36        | 9.992       | 1339          | 1343        | 1345         | rBV4     | 17950          | 28537         | 1.59%           | 0.137%        |

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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 | 10.028 | 1345 | 1349 | 1354 | rVV  | 50663   | 79694   | 4.44%  | 0.384% |
| 38 | 10.081 | 1354 | 1358 | 1362 | rVB3 | 22317   | 33798   | 1.88%  | 0.163% |
| 39 | 10.263 | 1384 | 1389 | 1395 | rVB  | 100608  | 132160  | 7.36%  | 0.637% |
| 40 | 10.375 | 1404 | 1408 | 1414 | rBV  | 84238   | 115476  | 6.43%  | 0.556% |
| 41 | 10.481 | 1421 | 1426 | 1431 | rBV  | 39612   | 63175   | 3.52%  | 0.304% |
| 42 | 10.539 | 1431 | 1436 | 1443 | rVB  | 374833  | 487974  | 27.17% | 2.351% |
| 43 | 10.616 | 1444 | 1449 | 1461 | rVB  | 811375  | 1057995 | 58.90% | 5.097% |
| 44 | 10.733 | 1465 | 1469 | 1477 | rVB  | 117534  | 190034  | 10.58% | 0.916% |
| 45 | 10.851 | 1484 | 1489 | 1493 | rVB2 | 64662   | 84889   | 4.73%  | 0.409% |
| 46 | 10.922 | 1498 | 1501 | 1504 | rBV3 | 19100   | 26987   | 1.50%  | 0.130% |
| 47 | 11.122 | 1532 | 1535 | 1538 | rVB  | 20918   | 25150   | 1.40%  | 0.121% |
| 48 | 11.181 | 1541 | 1545 | 1548 | rVV  | 90396   | 134795  | 7.50%  | 0.649% |
| 49 | 11.210 | 1548 | 1550 | 1556 | rVB  | 75495   | 94746   | 5.27%  | 0.456% |
| 50 | 11.316 | 1563 | 1568 | 1570 | rBV  | 473791  | 675367  | 37.60% | 3.254% |
| 51 | 11.339 | 1570 | 1572 | 1576 | rVV  | 547967  | 586263  | 32.64% | 2.825% |
| 52 | 11.386 | 1576 | 1580 | 1584 | rVV  | 119728  | 164509  | 9.16%  | 0.793% |
| 53 | 11.545 | 1602 | 1607 | 1614 | rBV  | 53452   | 95760   | 5.33%  | 0.461% |
| 54 | 11.610 | 1614 | 1618 | 1621 | rBV  | 81133   | 102242  | 5.69%  | 0.493% |
| 55 | 11.710 | 1631 | 1635 | 1642 | rVB  | 237027  | 306780  | 17.08% | 1.478% |
| 56 | 11.816 | 1649 | 1653 | 1655 | rBV  | 51355   | 68589   | 3.82%  | 0.330% |
| 57 | 11.845 | 1655 | 1658 | 1664 | rVV2 | 316291  | 459016  | 25.55% | 2.211% |
| 58 | 11.928 | 1668 | 1672 | 1680 | rVB  | 115581  | 206985  | 11.52% | 0.997% |
| 59 | 12.016 | 1684 | 1687 | 1691 | rVB2 | 60812   | 78775   | 4.39%  | 0.380% |
| 60 | 12.110 | 1700 | 1703 | 1706 | rBV  | 37915   | 55721   | 3.10%  | 0.268% |
| 61 | 12.398 | 1748 | 1752 | 1754 | rBV  | 443916  | 615049  | 34.24% | 2.963% |
| 62 | 12.533 | 1766 | 1775 | 1778 | rBV  | 678757  | 1173148 | 65.31% | 5.652% |
| 63 | 12.633 | 1788 | 1792 | 1798 | rBV3 | 102069  | 179753  | 10.01% | 0.866% |
| 64 | 12.757 | 1807 | 1813 | 1820 | rBV  | 520425  | 816751  | 45.47% | 3.935% |
| 65 | 12.904 | 1833 | 1838 | 1845 | rVB  | 1099698 | 1426568 | 79.42% | 6.873% |
| 66 | 13.086 | 1866 | 1869 | 1873 | rVB  | 78180   | 101610  | 5.66%  | 0.490% |
| 67 | 13.957 | 2012 | 2017 | 2020 | rBV2 | 493945  | 810641  | 45.13% | 3.906% |
| 68 | 14.992 | 2190 | 2193 | 2201 | rVB  | 195710  | 409565  | 22.80% | 1.973% |
| 69 | 15.351 | 2251 | 2254 | 2259 | rVB  | 127912  | 175278  | 9.76%  | 0.844% |
| 70 | 15.416 | 2261 | 2265 | 2269 | rBV  | 186644  | 299304  | 16.66% | 1.442% |

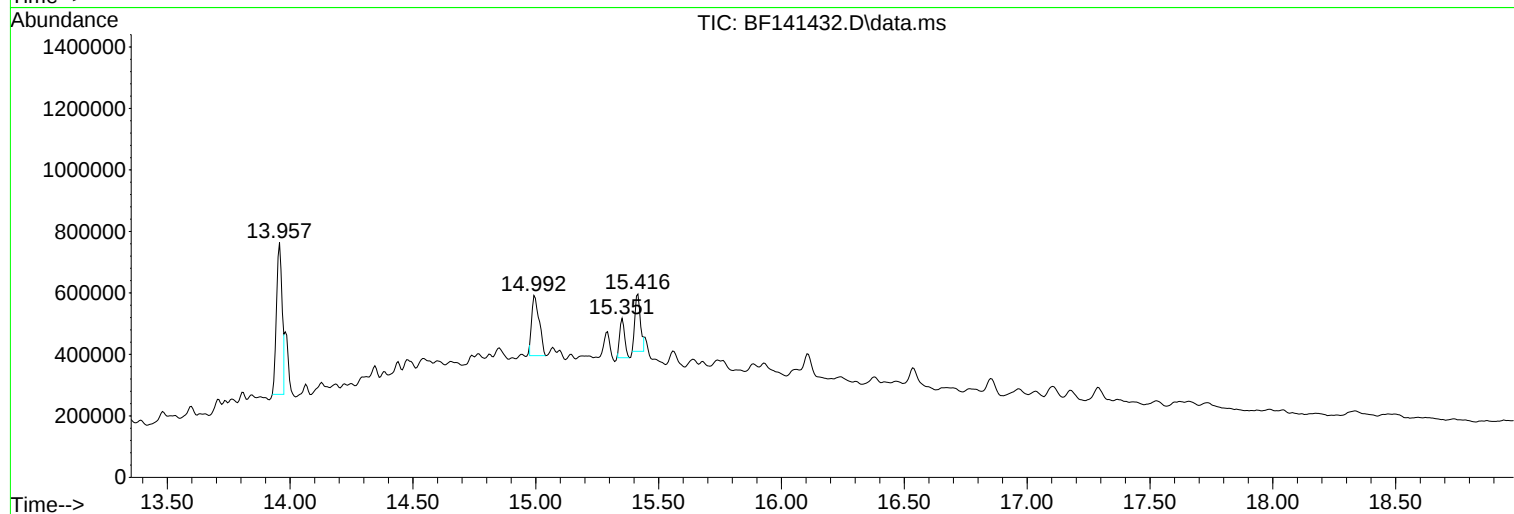
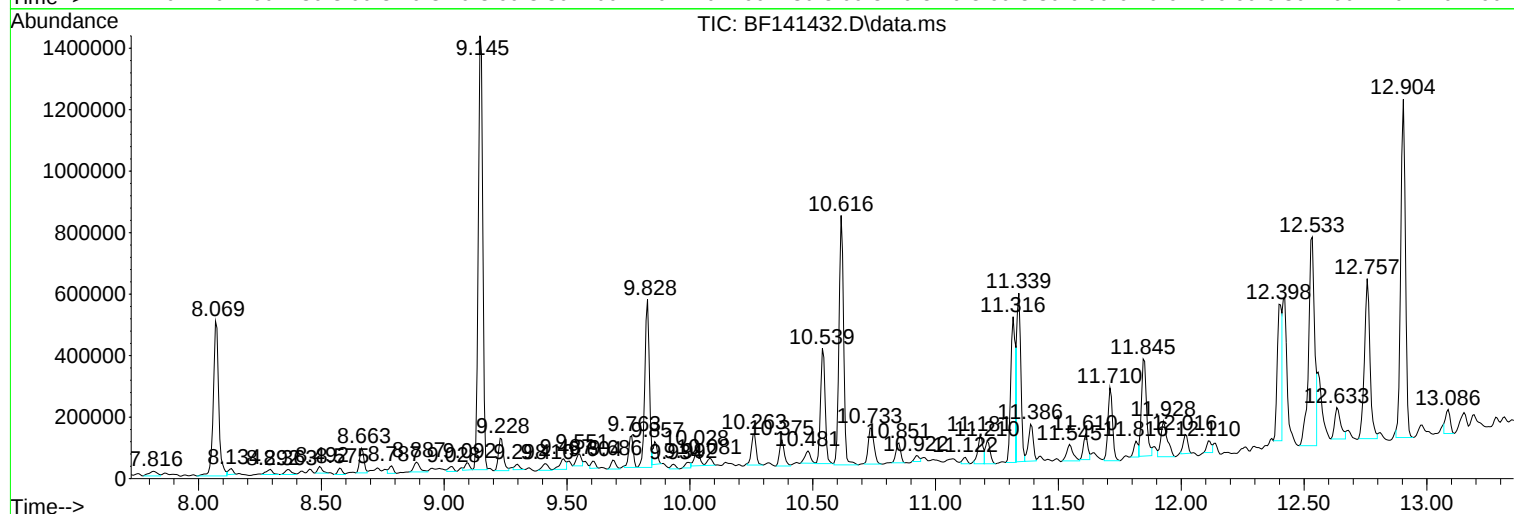
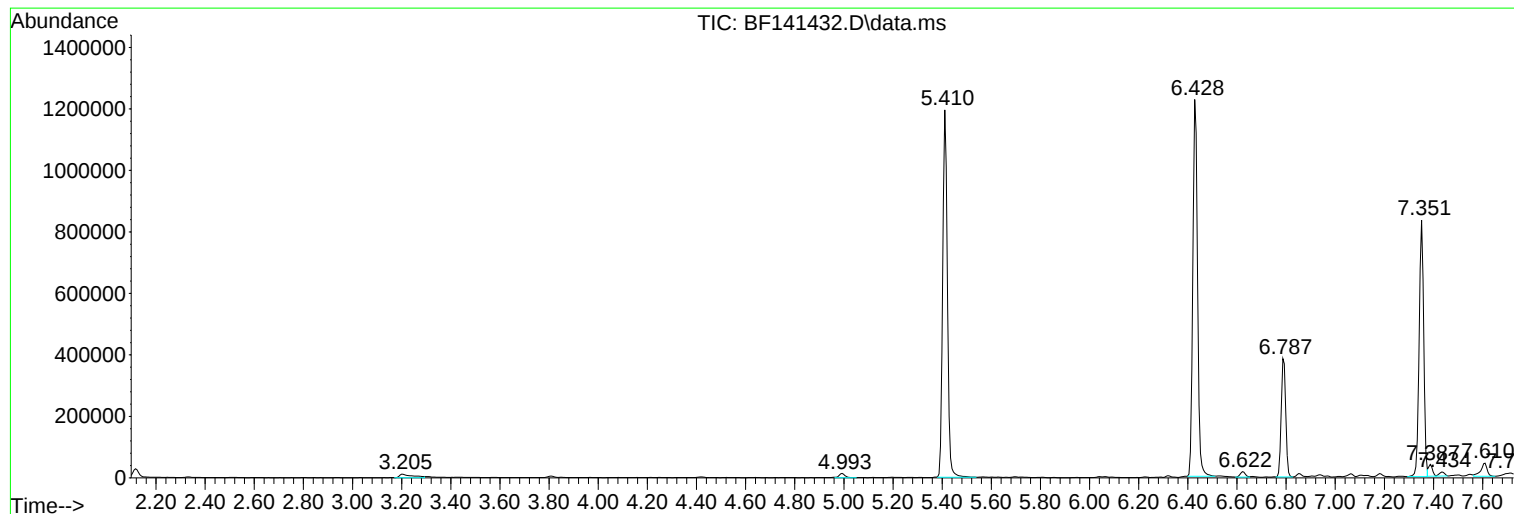
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Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

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\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

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

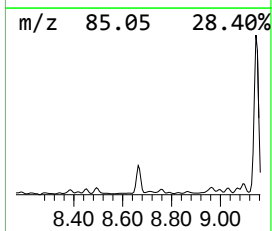
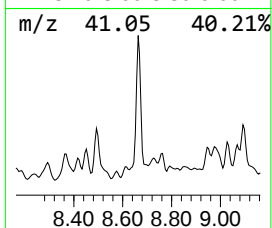
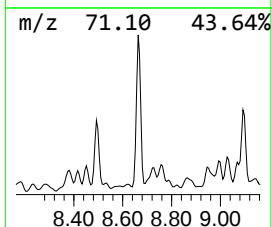
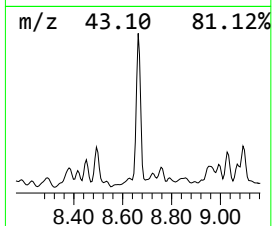
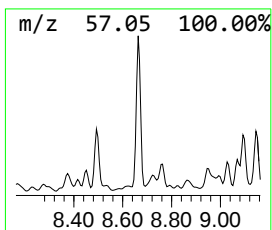
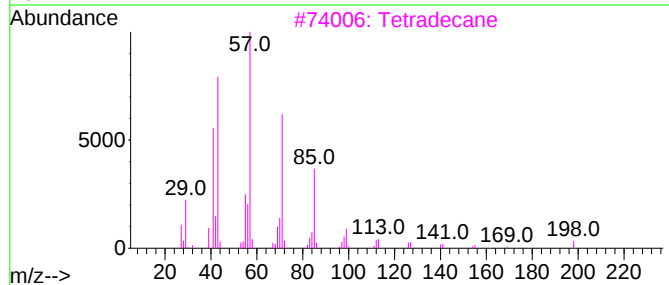
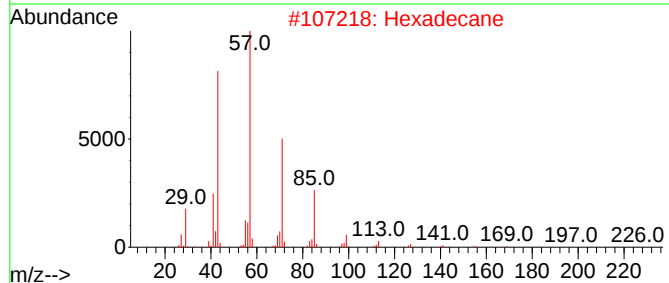
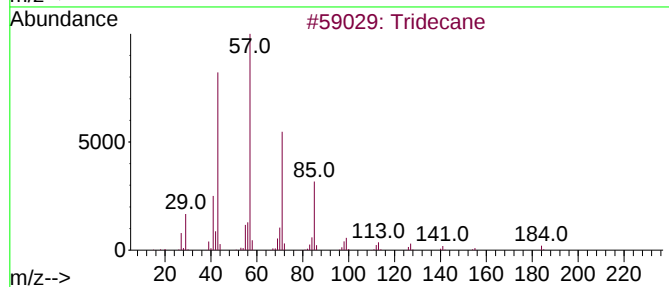
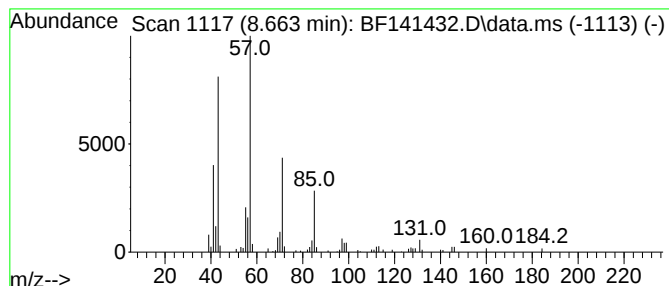
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Tridecane Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 8.663 | 2.57 ng | 99361 | Naphthalene-d8   | 8.069 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 2    |    |   | Hexadecane   | 226 | C16H34  | 000544-76-3 | 86   |
| 3    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 86   |
| 4    |    |   | Dodecane     | 170 | C12H26  | 000112-40-3 | 78   |
| 5    |    |   | Undecane     | 156 | C11H24  | 001120-21-4 | 72   |



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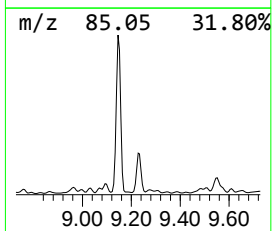
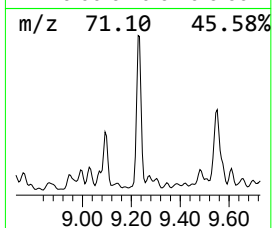
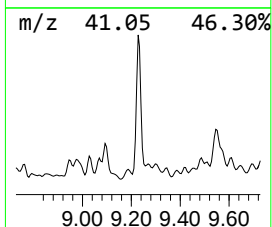
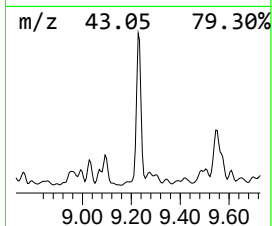
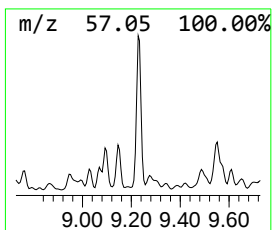
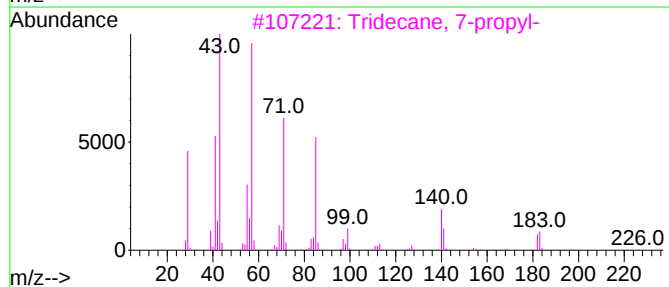
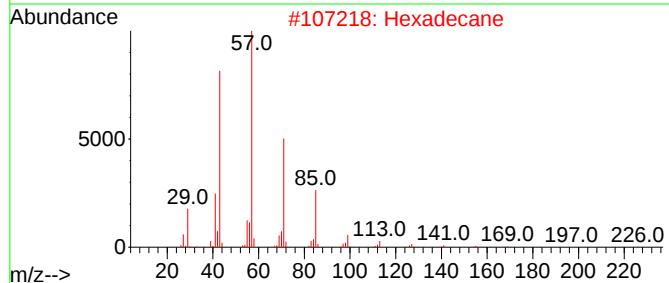
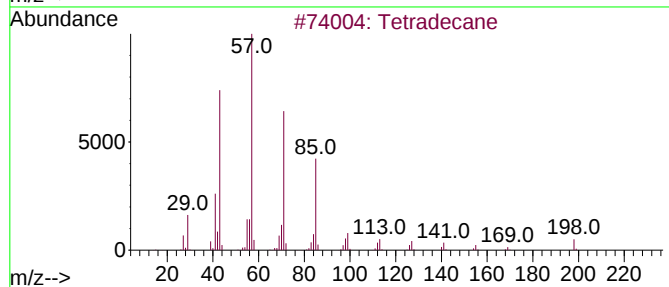
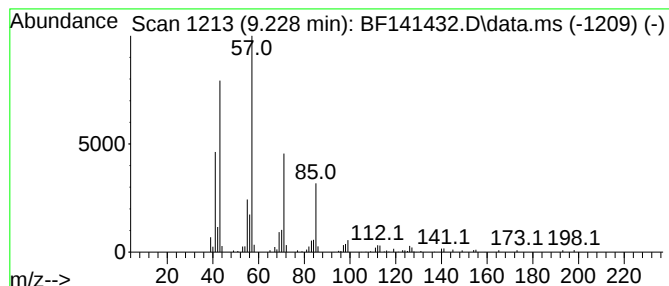
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Tetradecane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.228 | 4.27 ng | 151970 | 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    |      | Tridecane, 7-propyl- | 226 | C16H34  | 055045-09-5 | 86   |
| 4    |      | Tridecane            | 184 | C13H28  | 000629-50-5 | 86   |
| 5    |      | Tetradecane, 1-iodo- | 324 | C14H29I | 019218-94-1 | 83   |



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

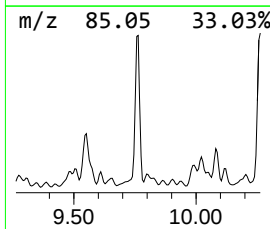
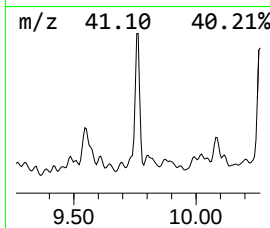
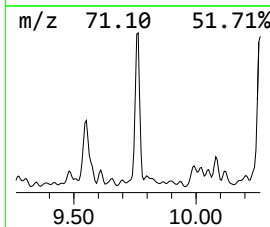
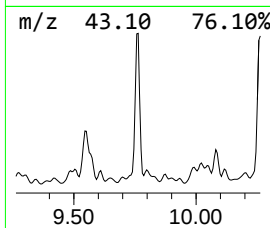
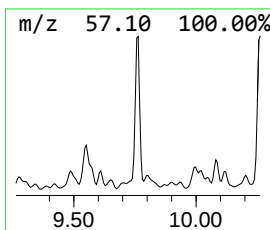
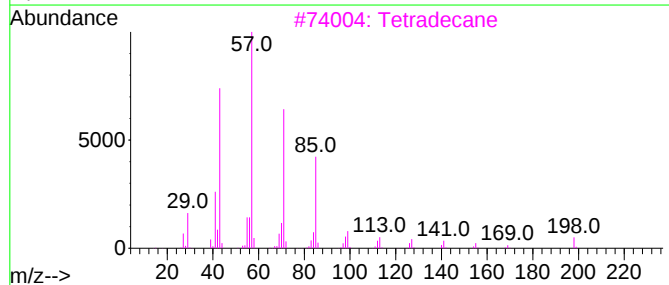
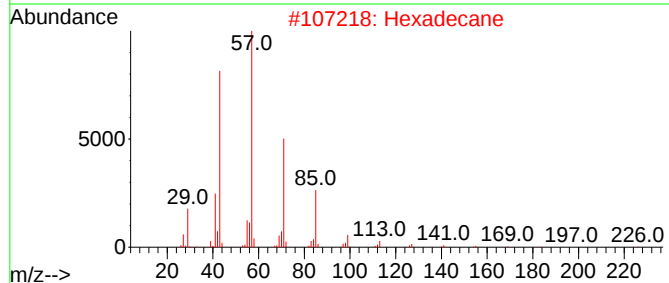
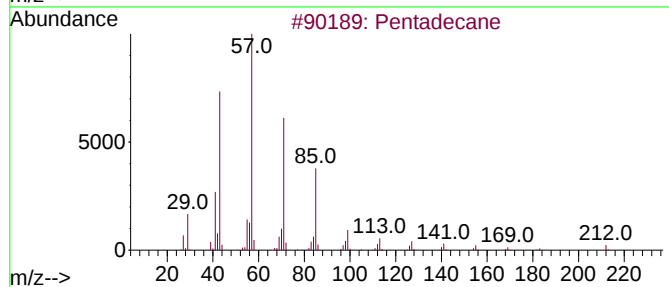
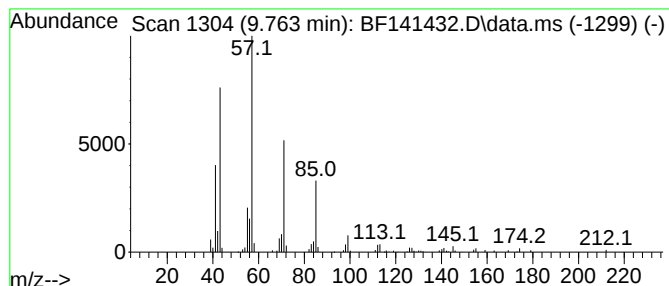
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Pentadecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.763 | 3.67 ng | 130513 | Acenaphthene-d10 | 9.828 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane              | 212 | C15H32  | 000629-62-9 | 95   |
| 2    |    |   | Hexadecane               | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    |   | Tetradecane              | 198 | C14H30  | 000629-59-4 | 90   |
| 4    |    |   | Tridecane, 4,8-dimethyl- | 212 | C15H32  | 055030-62-1 | 90   |
| 5    |    |   | Tridecane                | 184 | C13H28  | 000629-50-5 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

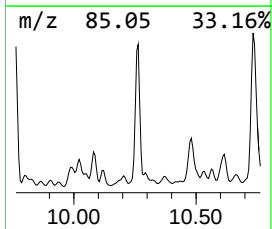
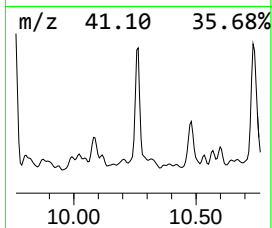
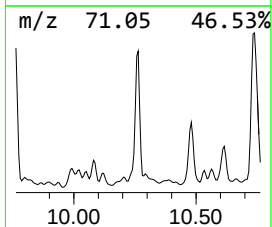
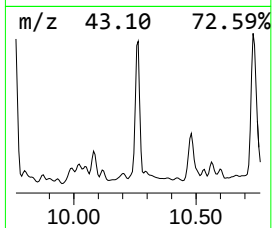
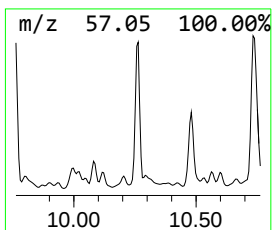
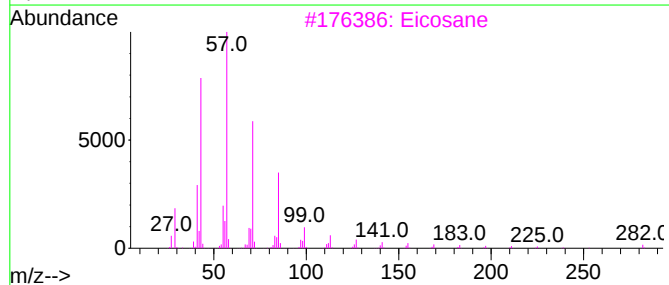
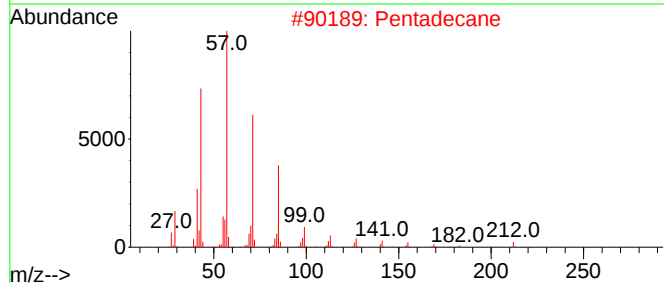
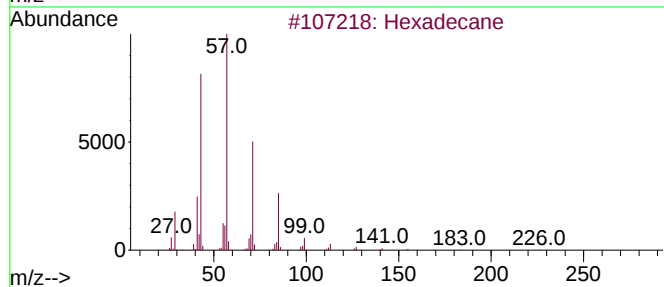
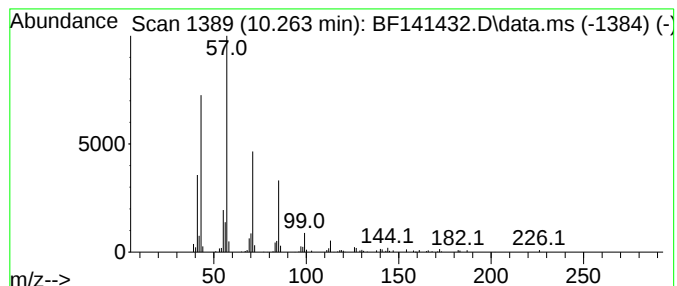
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Hexadecane Concentration Rank 10

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.263 | 3.71 ng | 132160 | Acenaphthene-d10 | 9.828 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane         | 226 | C16H34  | 000544-76-3 | 96   |
| 2    |    |   | Pentadecane        | 212 | C15H32  | 000629-62-9 | 86   |
| 3    |    |   | Eicosane           | 282 | C20H42  | 000112-95-8 | 83   |
| 4    |    |   | Dodecane, 1-iodo-  | 296 | C12H25I | 004292-19-7 | 80   |
| 5    |    |   | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 78   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

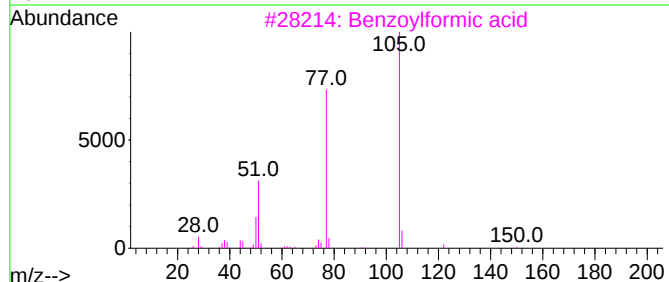
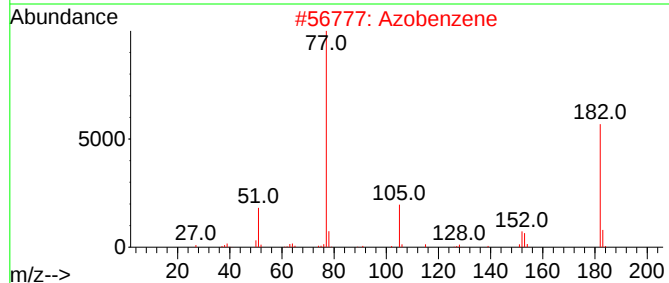
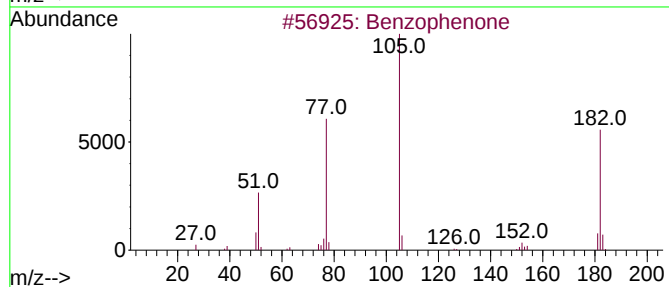
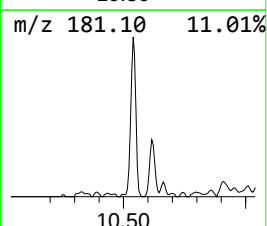
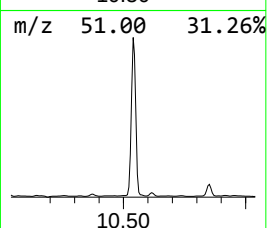
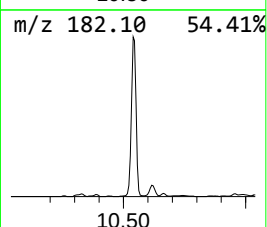
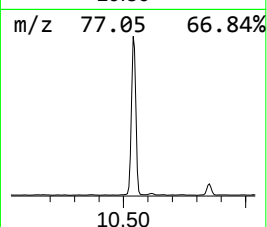
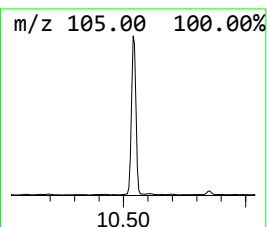
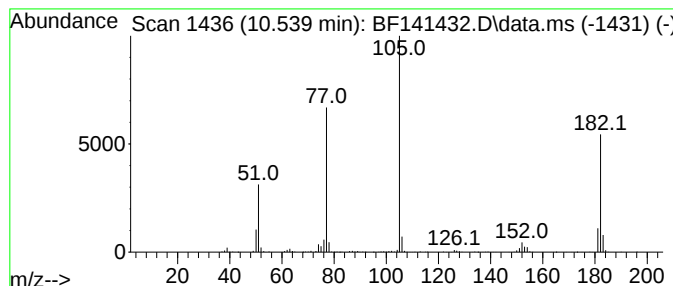
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Benzophenone Concentration Rank 2

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.  |
|--------|----------|--------|------------------|-------|
| 10.539 | 13.70 ng | 487974 | Acenaphthene-d10 | 9.828 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------|-----|----------|-------------|------|
| 1    |    |   | Benzophenone                   | 182 | C13H10O  | 000119-61-9 | 96   |
| 2    |    |   | Azobenzene                     | 182 | C12H10N2 | 000103-33-3 | 52   |
| 3    |    |   | Benzoylformic acid             | 150 | C8H6O3   | 000611-73-4 | 49   |
| 4    |    |   | Benzoic acid, 2-propenyl ester | 162 | C10H10O2 | 000583-04-0 | 47   |
| 5    |    |   | Pentafluoroethyl phenyl ketone | 224 | C9H5F5O  | 000394-52-5 | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

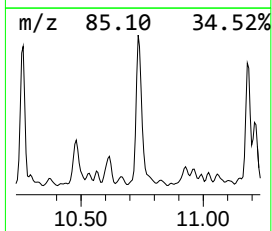
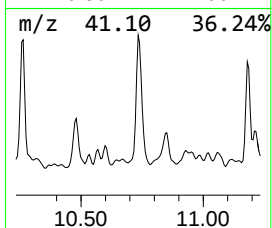
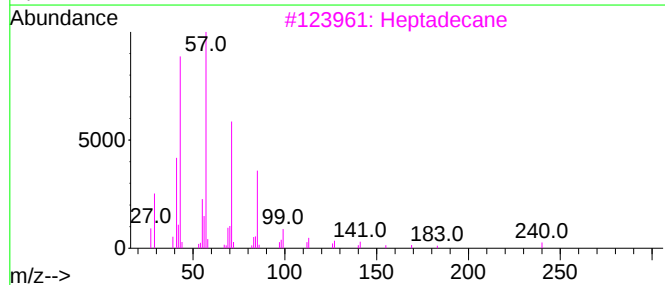
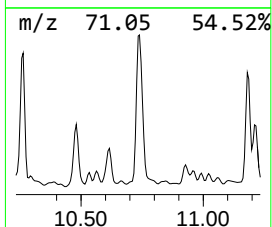
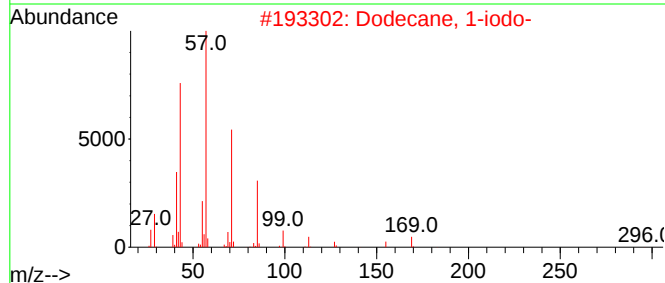
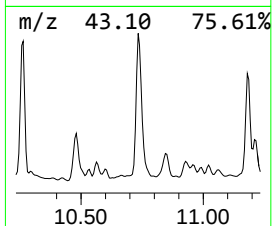
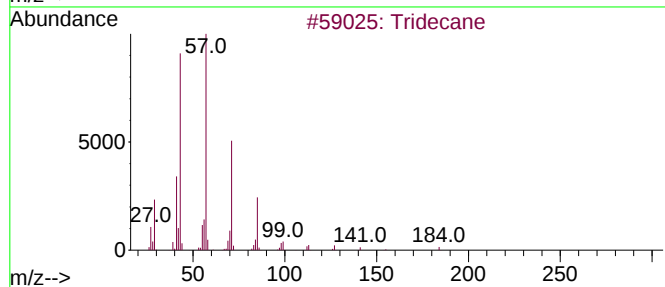
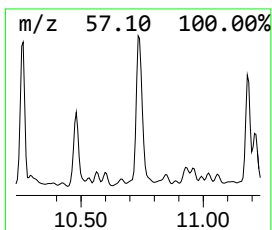
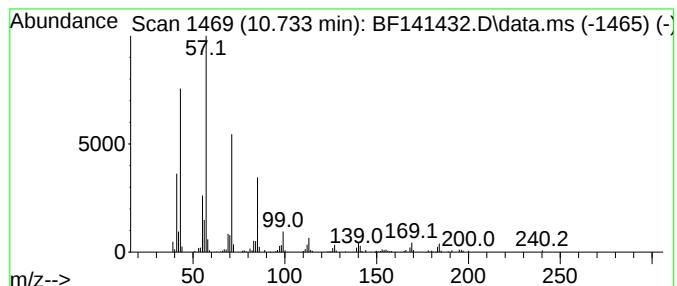
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Dodecane, 1-iodo- Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 10.733 | 5.63 ng | 190034 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane                           | 184 | C13H28  | 000629-50-5 | 90   |
| 2    |    |   | Dodecane, 1-iodo-                   | 296 | C12H25I | 004292-19-7 | 86   |
| 3    |    |   | Heptadecane                         | 240 | C17H36  | 000629-78-7 | 83   |
| 4    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 83   |
| 5    |    |   | Eicosane                            | 282 | C20H42  | 000112-95-8 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

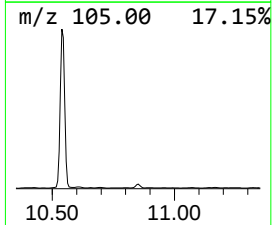
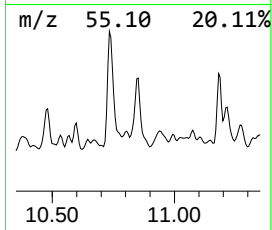
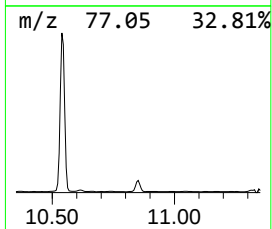
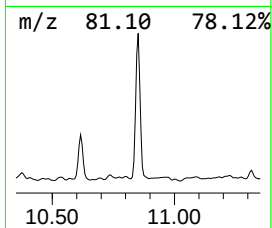
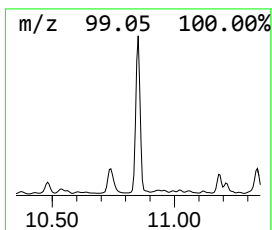
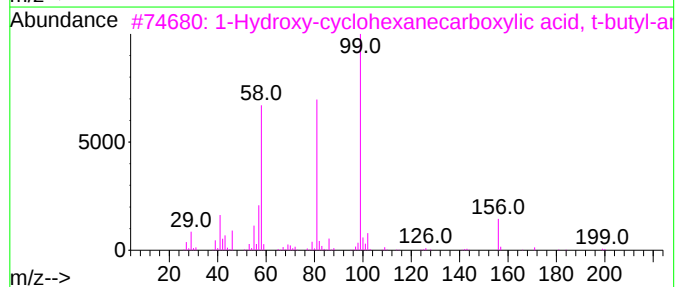
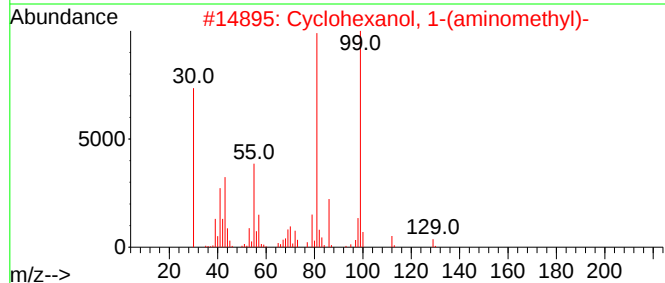
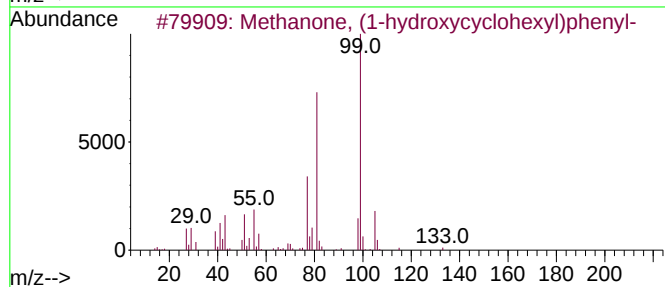
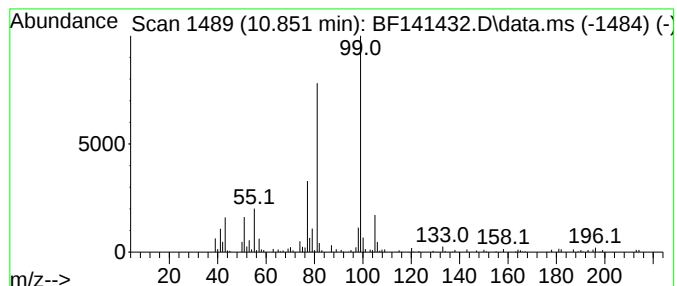
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Methanone, (1-hydroxycyclohexyl) Concentration Rank 15

| R.T.      | EstConc                             | Area  | Relative to ISTD |           | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-----------|-------------|------|
| 10.851    | 2.51 ng                             | 84889 | Phenanthrene-d10 |           | 11.316      |      |
| Hit# of 5 | Tentative ID                        |       | MW               | MolForm   | CAS#        | Qual |
| 1         | Methanone, (1-hydroxycyclohexyl)... |       | 204              | C13H16O2  | 000947-19-3 | 91   |
| 2         | Cyclohexanol, 1-(aminomethyl)-      |       | 129              | C7H15NO   | 004000-72-0 | 64   |
| 3         | 1-Hydroxy-cyclohexanecarboxylic ... |       | 199              | C11H21NO2 | 004933-47-5 | 59   |
| 4         | 1-Hydroxycyclohexanecarboxylic acid |       | 144              | C7H12O3   | 001123-28-0 | 59   |
| 5         | 3-Methylcyclohexyl methylphospho... |       | 194              | C8H16FO2P | 113548-86-0 | 45   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
OR-02--2-03-2025

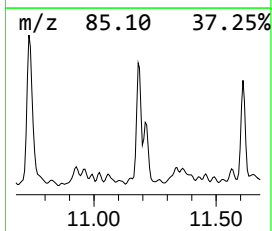
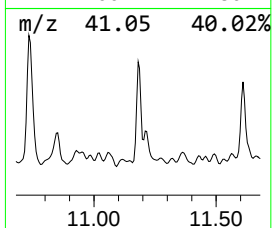
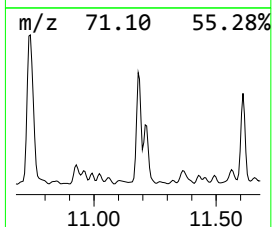
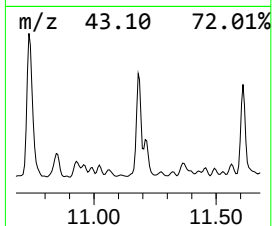
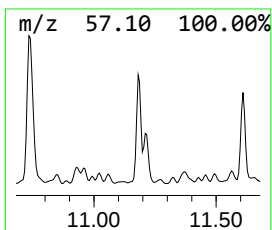
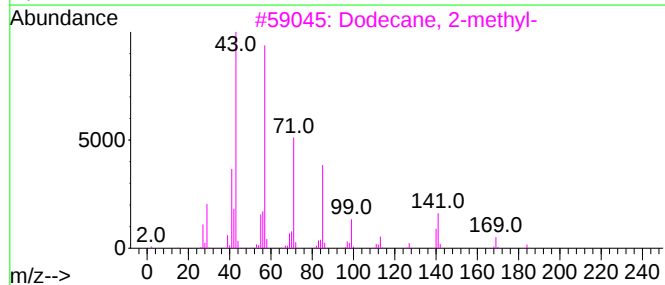
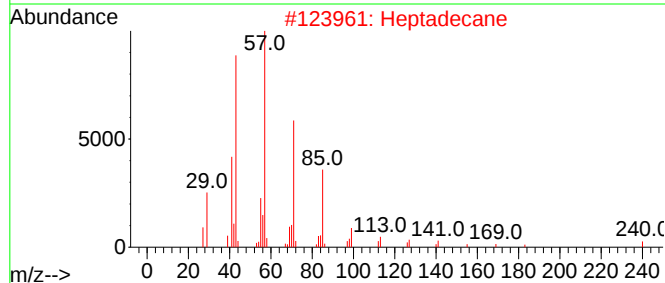
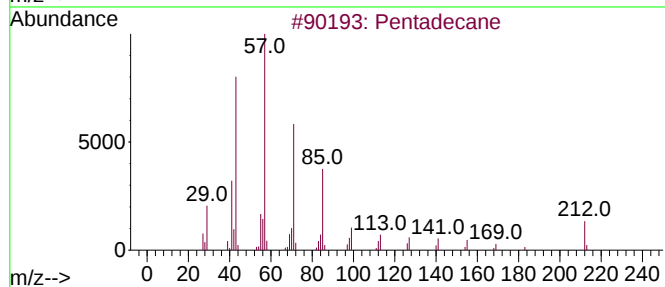
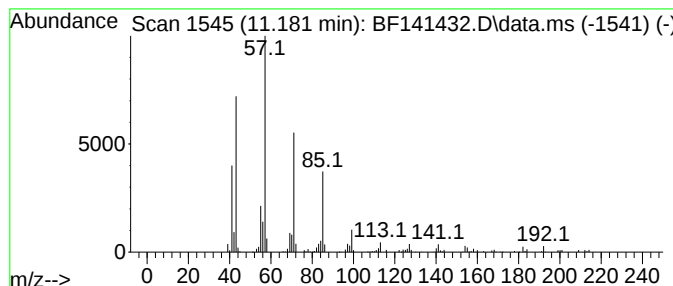
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Heptadecane Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.181 | 3.99 ng | 134795 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane         | 212 | C15H32  | 000629-62-9 | 91   |
| 2    |    |   | Heptadecane         | 240 | C17H36  | 000629-78-7 | 87   |
| 3    |    |   | Dodecane, 2-methyl- | 184 | C13H28  | 001560-97-0 | 87   |
| 4    |    |   | Eicosane            | 282 | C20H42  | 000112-95-8 | 87   |
| 5    |    |   | Tetradecane         | 198 | C14H30  | 000629-59-4 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId :  
OR-02--2-03-2025

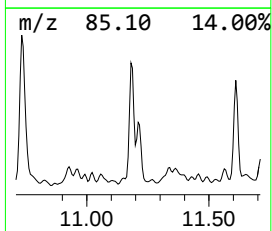
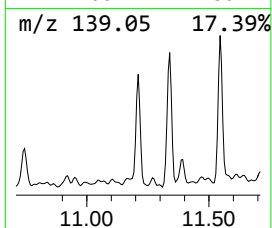
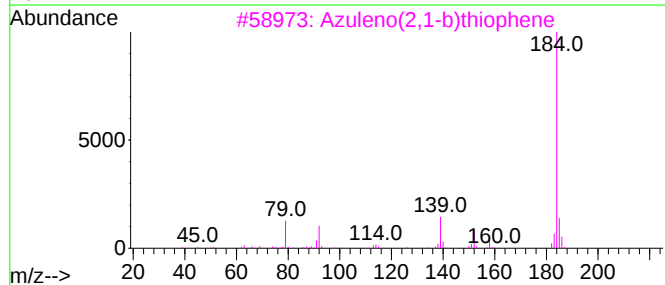
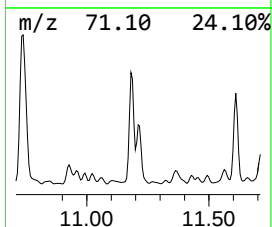
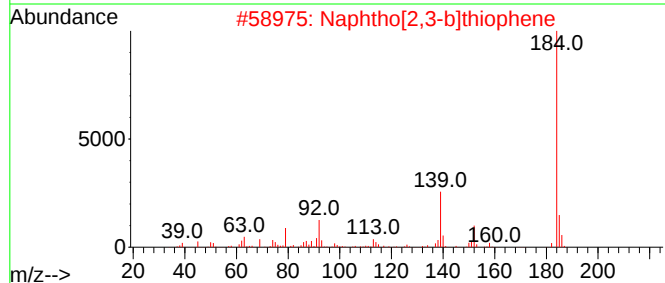
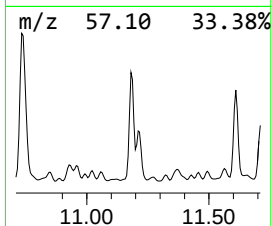
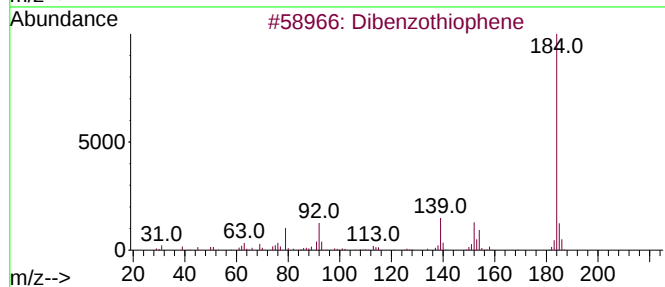
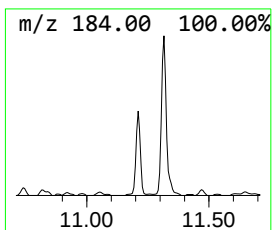
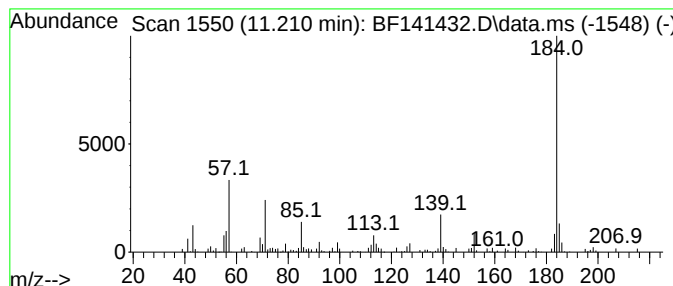
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Dibenzothiophene Concentration Rank 13

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 11.210 | 2.81 ng | 94746 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dibenzothiophene                    | 184 | C12H8S  | 000132-65-0 | 76   |
| 2    |    |   | Naphtho[2,3-b]thiophene             | 184 | C12H8S  | 000268-77-9 | 70   |
| 3    |    |   | Azuleno(2,1-b)thiophene             | 184 | C12H8S  | 000248-13-5 | 68   |
| 4    |    |   | Naphthalene, 2-ethenyl-6-methoxy-   | 184 | C13H12O | 063444-51-9 | 53   |
| 5    |    |   | 2,5-Cyclohexadiene-1,4-dione, 2,... | 184 | C8H8O5  | 000085-23-4 | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

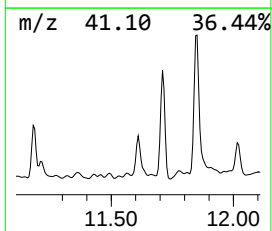
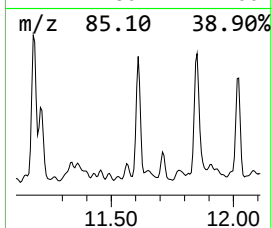
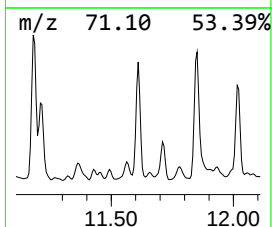
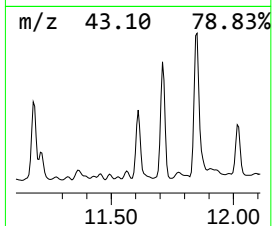
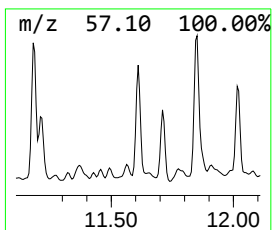
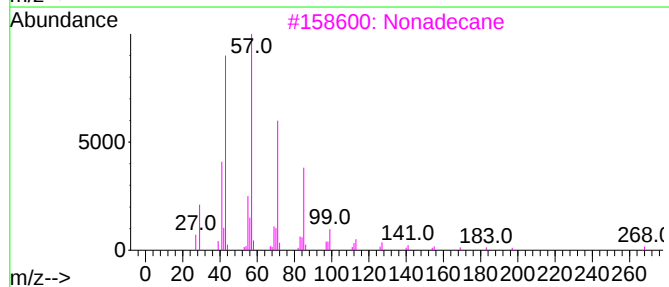
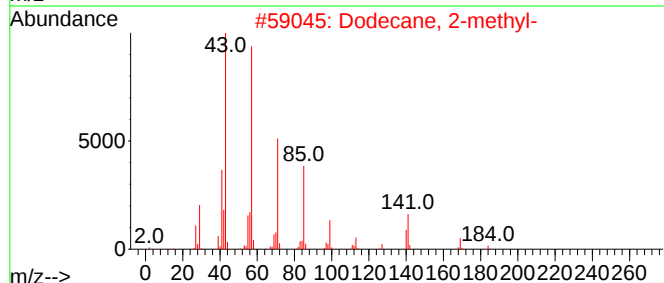
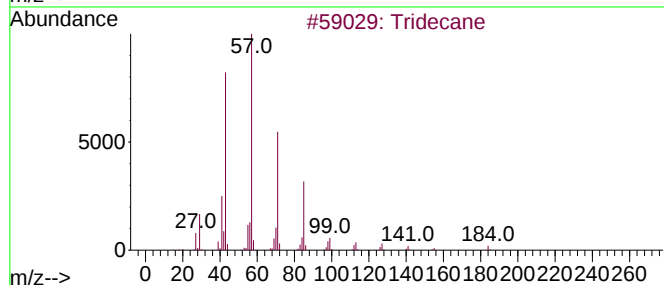
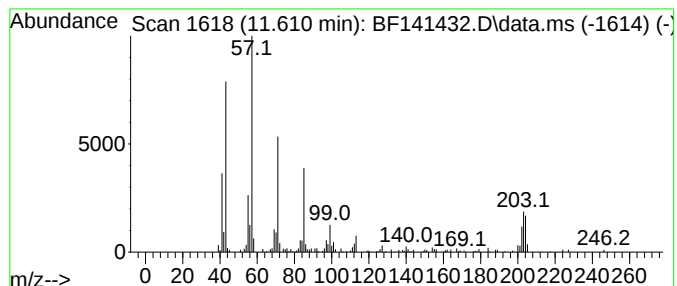
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Dodecane, 2-methyl- Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.610 | 3.03 ng | 102242 | Phenanthrene-d10 | 11.316 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Tridecane            | 184 | C13H28  | 000629-50-5 | 70   |
| 2    |      | Dodecane, 2-methyl-  | 184 | C13H28  | 001560-97-0 | 62   |
| 3    |      | Nonadecane           | 268 | C19H40  | 000629-92-5 | 58   |
| 4    |      | Tridecane, 6-propyl- | 226 | C16H34  | 055045-10-8 | 58   |
| 5    |      | Heptadecane          | 240 | C17H36  | 000629-78-7 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

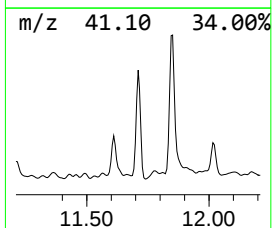
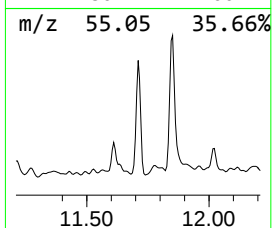
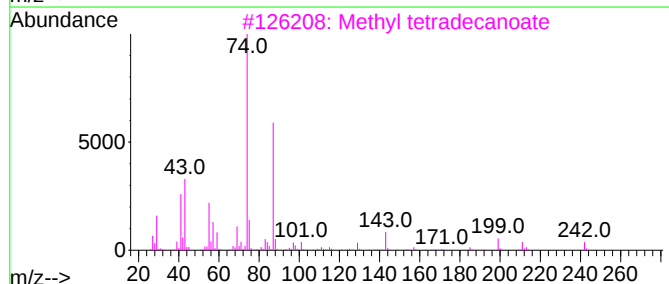
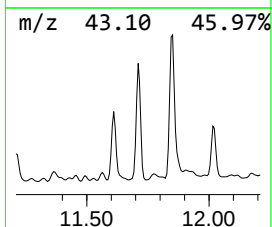
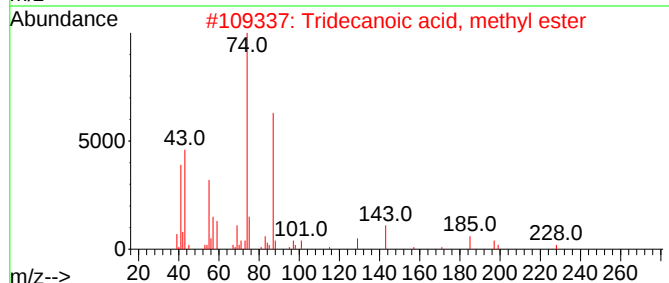
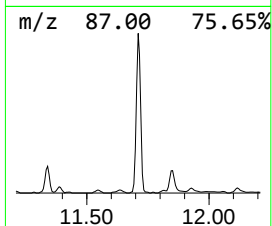
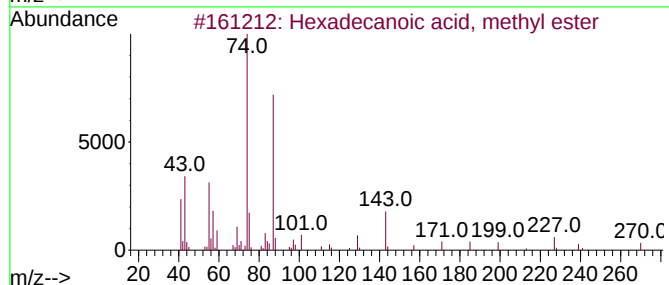
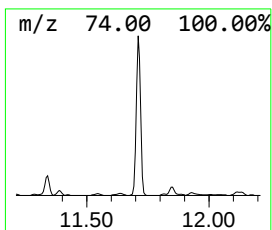
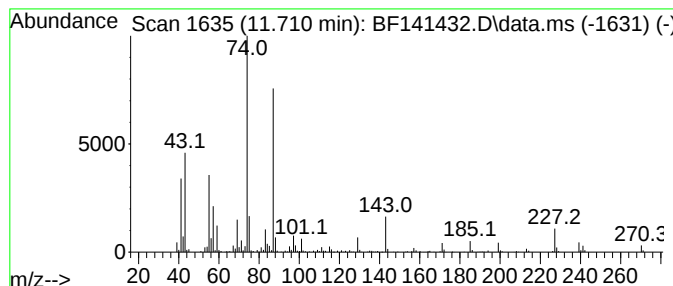
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Hexadecanoic acid, methyl e... Concentration Rank 4

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.710 | 9.08 ng | 306780 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    |   | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 93   |
| 3    |    |   | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 91   |
| 4    |    |   | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 87   |
| 5    |    |   | Undecanoic acid, 10-methyl-, met... | 214 | C13H26O2 | 005129-56-6 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

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

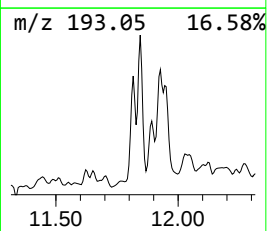
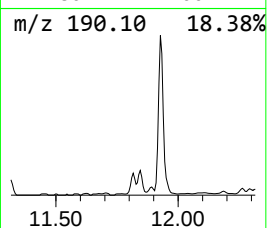
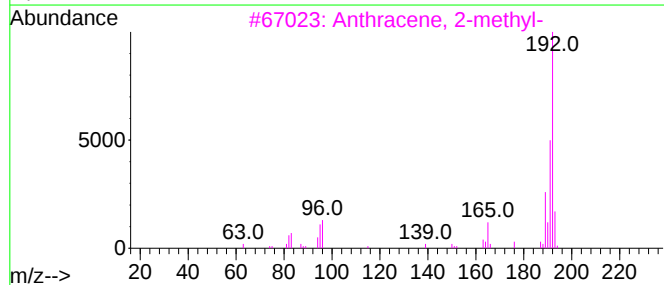
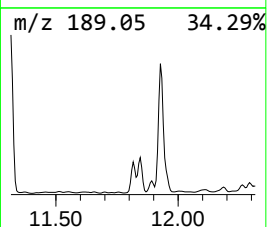
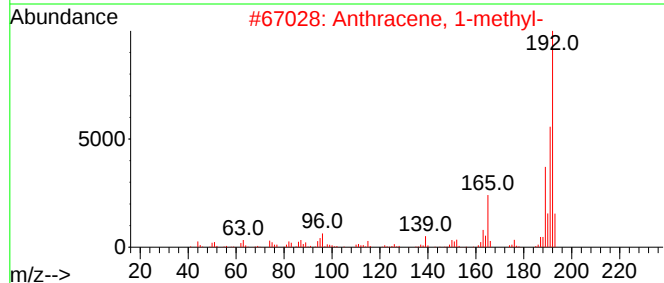
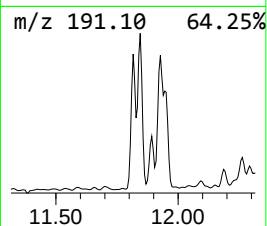
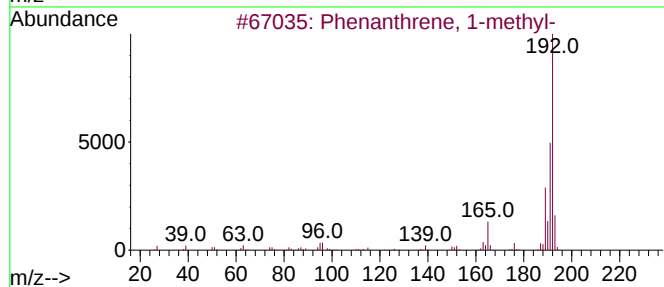
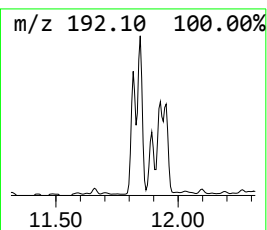
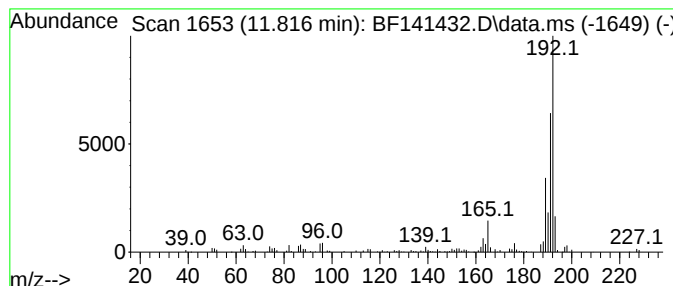
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 19

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 11.816 | 2.03 ng | 68589 | Phenanthrene-d10 | 11.316 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 91   |
| 2    |      | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 90   |
| 3    |      | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 87   |
| 4    |      | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 87   |
| 5    |      | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

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

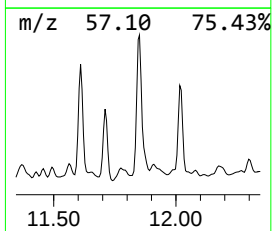
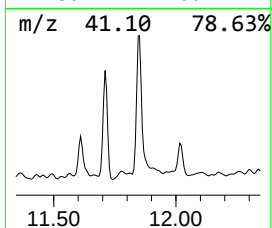
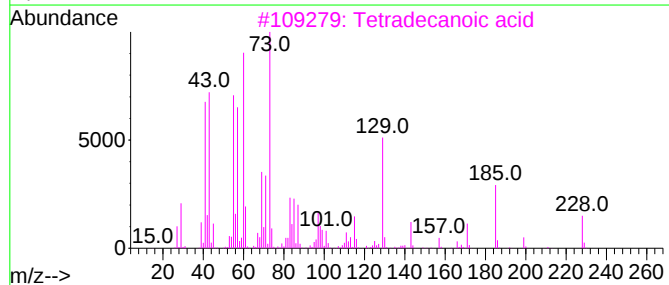
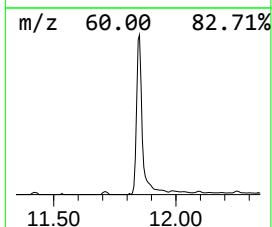
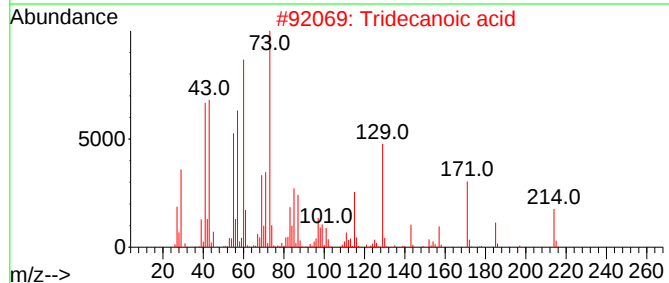
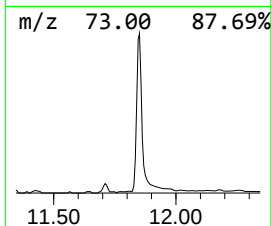
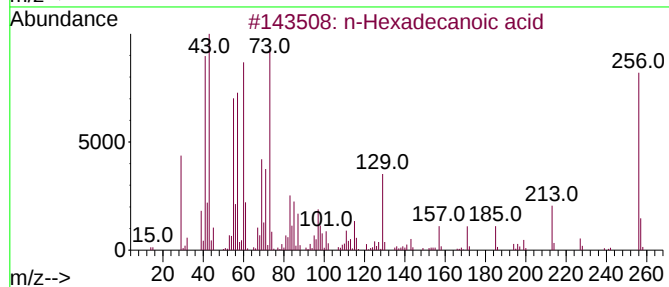
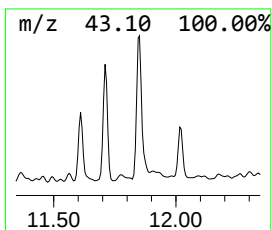
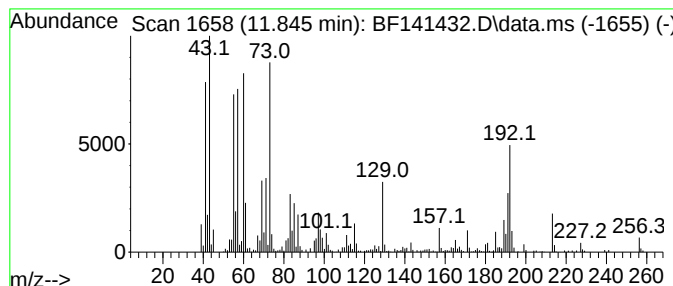
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 n-Hexadecanoic acid Concentration Rank 3

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.845 | 13.59 ng | 459016 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |
| 4    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 60   |
| 5    |    |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

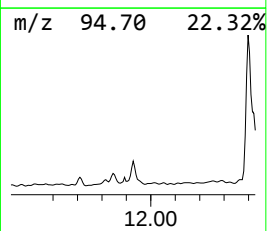
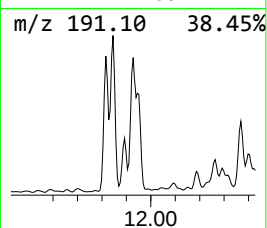
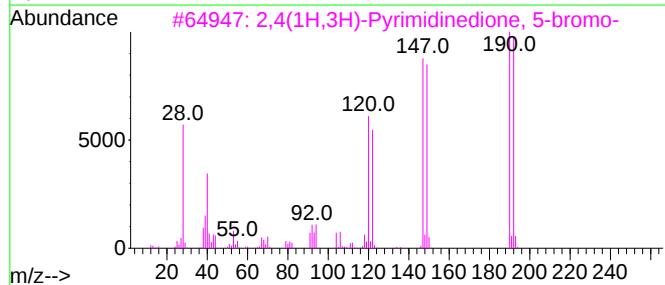
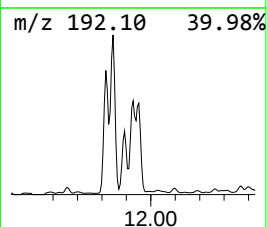
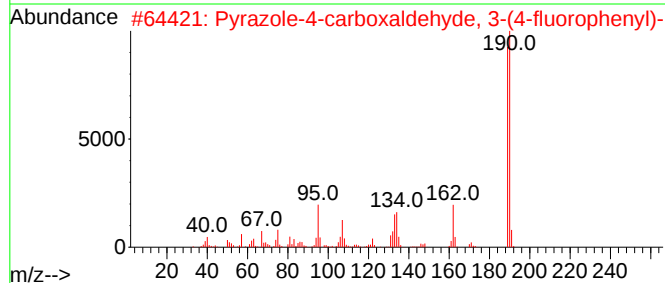
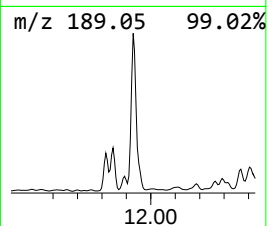
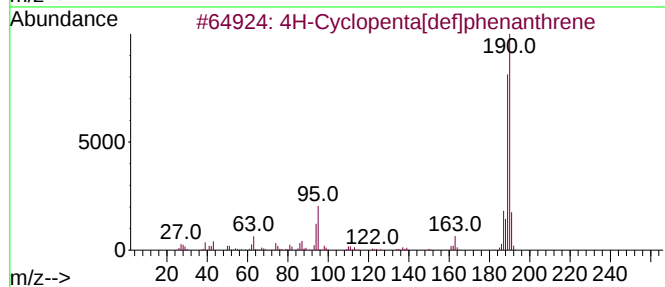
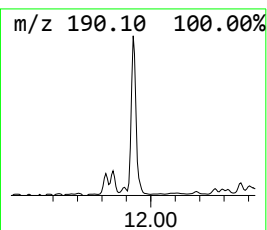
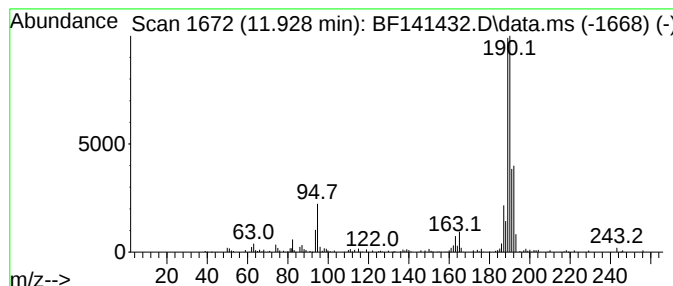
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD |            | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|------------|-------------|------|
| 11.928    | 6.13 ng                             | 206985 | Phenanthrene-d10 |            | 11.316      |      |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm    | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      |        | 190              | C15H10     | 000203-64-5 | 87   |
| 2         | Pyrazole-4-carboxaldehyde, 3-(4-... |        | 190              | C10H7FN2O  | 306936-57-2 | 46   |
| 3         | 2,4(1H,3H)-Pyrimidinedione, 5-br... |        | 190              | C4H3BrN2O2 | 000051-20-7 | 27   |
| 4         | 2,2'-Bis(4,5-dimethylimidazole)     |        | 190              | C10H14N4   | 069286-06-2 | 25   |
| 5         | 4-Bromothiophene-2-aldehyde         |        | 190              | C5H3BrOS   | 018791-75-8 | 17   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

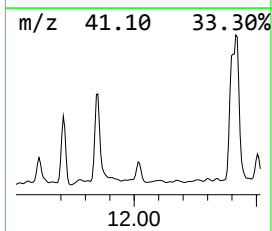
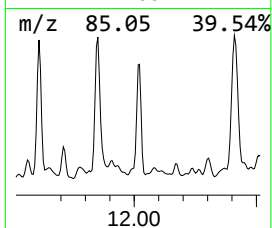
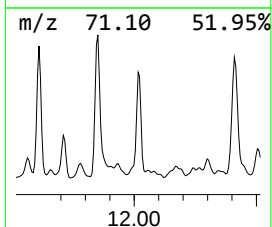
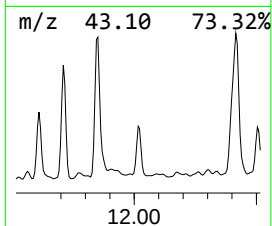
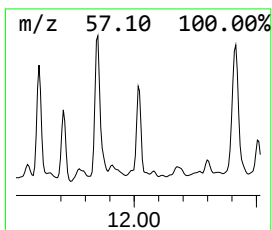
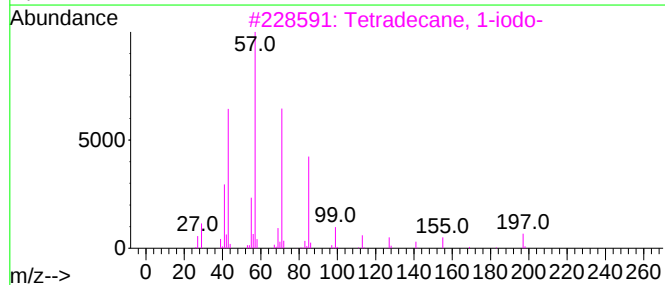
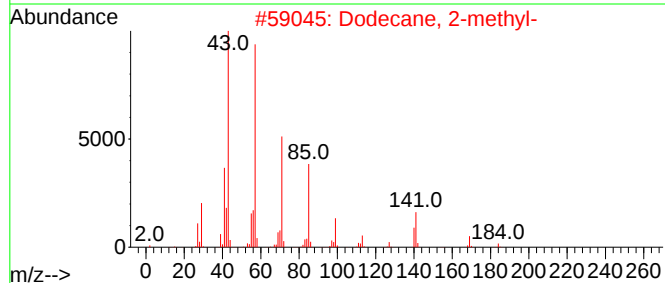
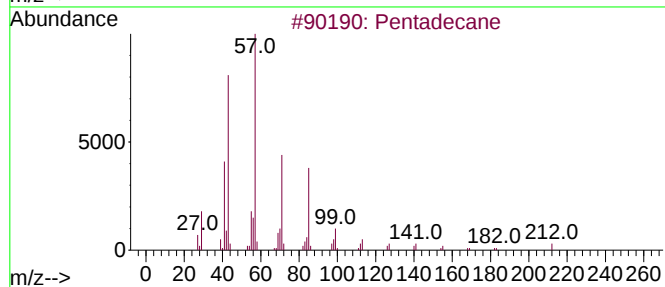
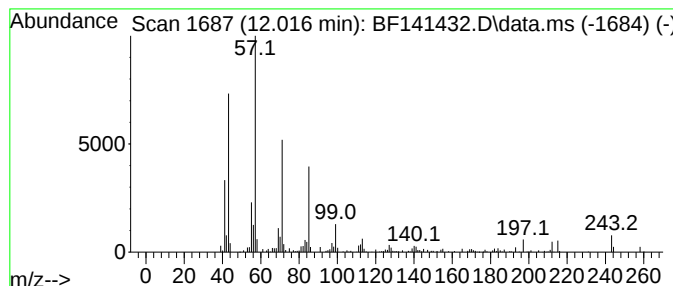
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 Tetradecane, 1-iodo- Concentration Rank 17

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.016 | 2.33 ng | 78775 | Phenanthrene-d10 | 11.316 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Pentadecane          | 212 | C15H32  | 000629-62-9 | 86   |
| 2    |      | Dodecane, 2-methyl-  | 184 | C13H28  | 001560-97-0 | 81   |
| 3    |      | Tetradecane, 1-iodo- | 324 | C14H29I | 019218-94-1 | 80   |
| 4    |      | Tridecane, 1-iodo-   | 310 | C13H27I | 035599-77-0 | 74   |
| 5    |      | Undecane, 2-methyl-  | 170 | C12H26  | 007045-71-8 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

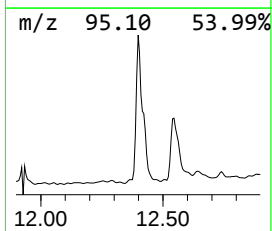
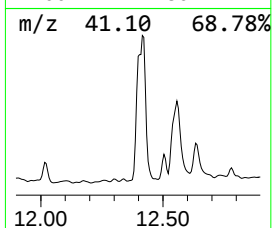
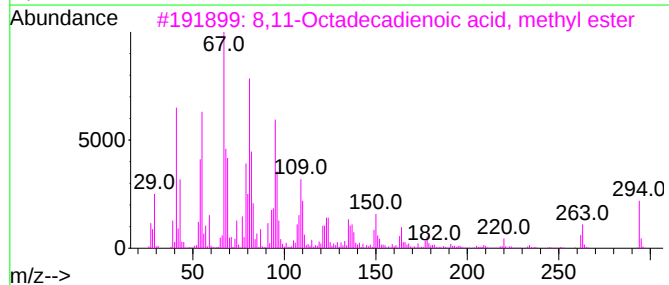
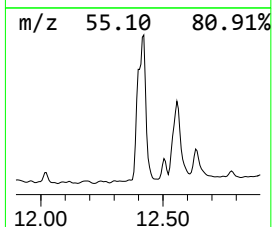
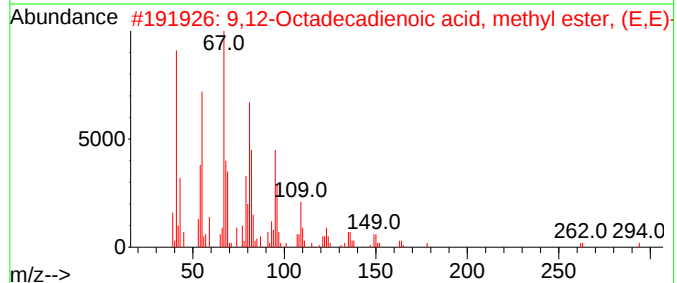
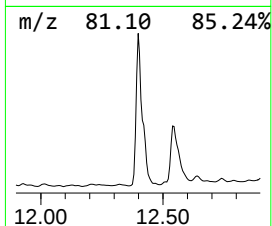
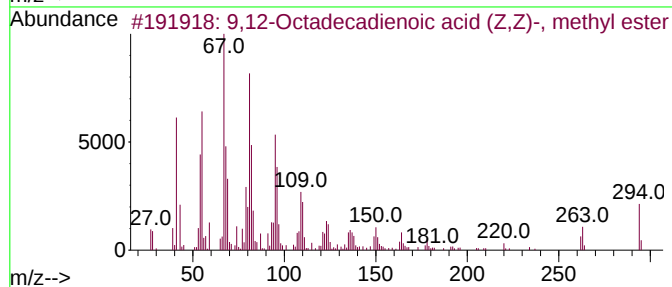
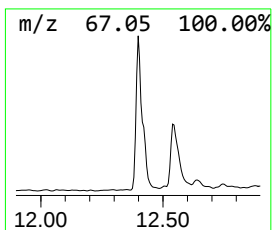
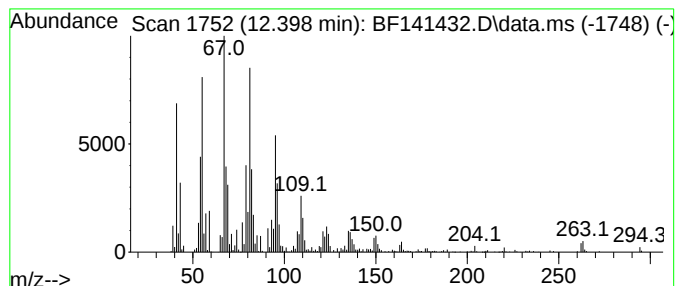
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 9,12-Octadecadienoic acid (... Concentration Rank 1

| R.T.   | EstConc  | Area                                | Relative to ISTD | R.T.            |
|--------|----------|-------------------------------------|------------------|-----------------|
| 12.398 | 18.21 ng | 615049                              | Phenanthrene-d10 | 11.316          |
| Hit#   | of 5     | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1      |          | 9,12-Octadecadienoic acid (Z,Z)-... | 294 C19H34O2     | 000112-63-0 99  |
| 2      |          | 9,12-Octadecadienoic acid, methy... | 294 C19H34O2     | 002566-97-4 99  |
| 3      |          | 8,11-Octadecadienoic acid, methy... | 294 C19H34O2     | 056599-58-7 98  |
| 4      |          | Methyl 9-cis,11-trans-octadecadi... | 294 C19H34O2     | 013058-52-1 96  |
| 5      |          | Methyl 10-trans,12-cis-octadecad... | 294 C19H34O2     | 1000336-44-2 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

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

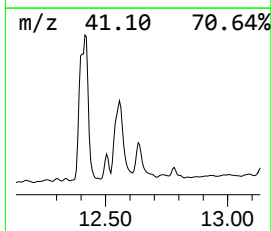
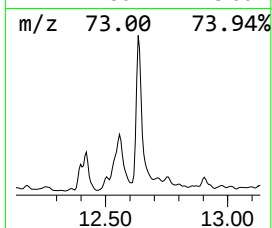
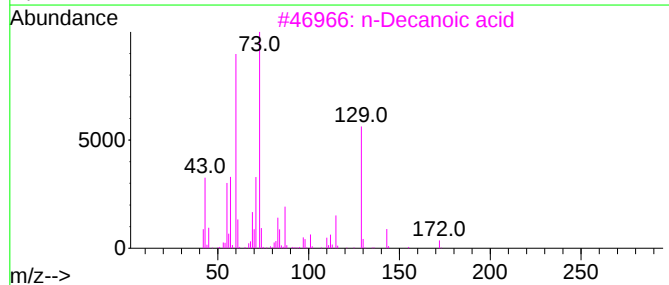
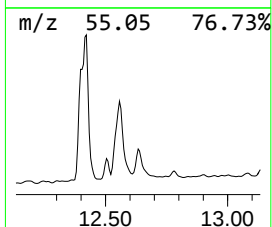
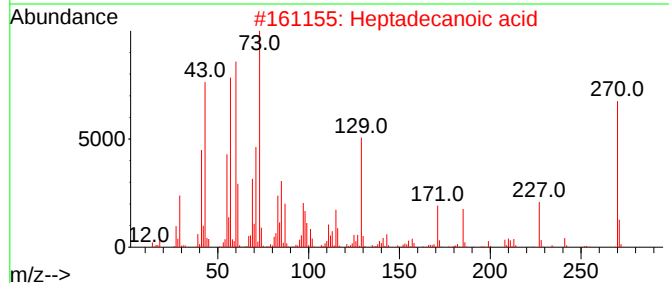
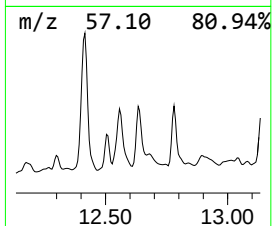
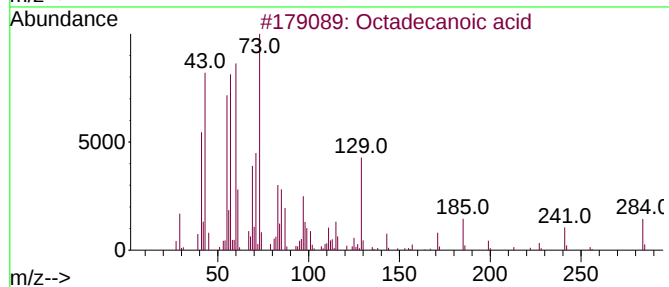
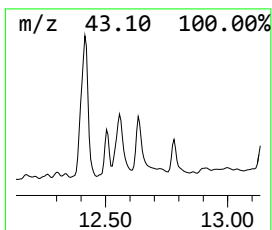
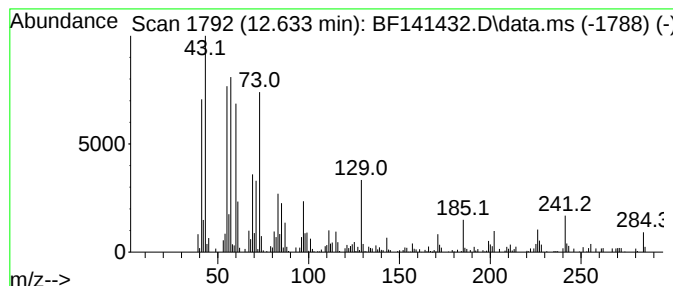
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Octadecanoic acid Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.633 | 5.32 ng | 179753 | Phenanthrene-d10 | 11.316 |

| Hit# | of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|------|---------------------|-----|----------|-------------|------|
| 1    |      | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |      | Heptadecanoic acid  | 270 | C17H34O2 | 000506-12-7 | 92   |
| 3    |      | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 86   |
| 4    |      | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 78   |
| 5    |      | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 62   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

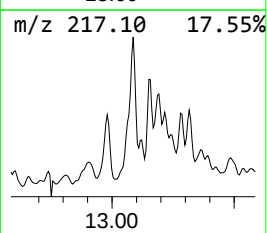
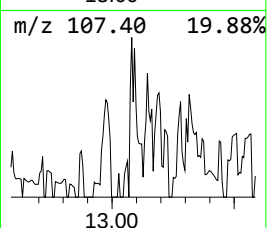
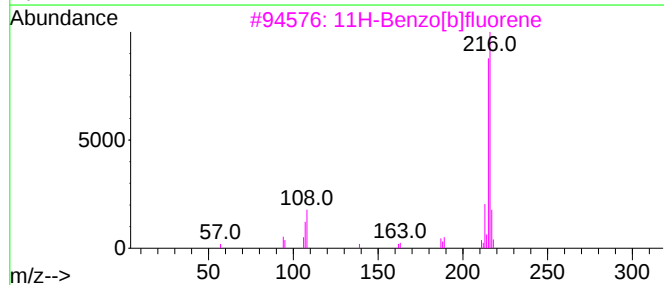
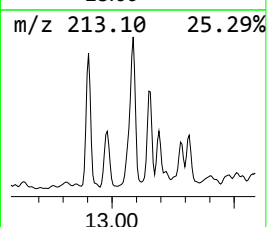
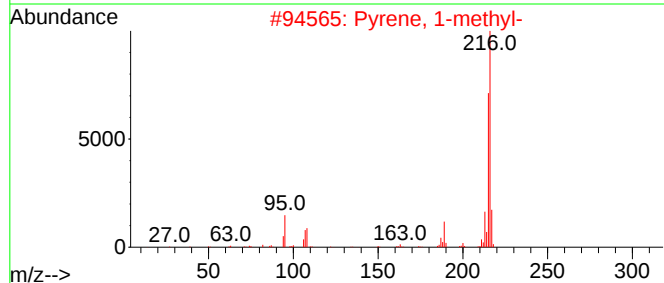
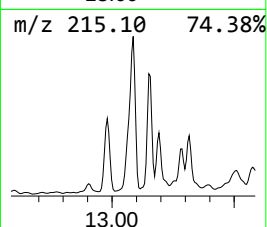
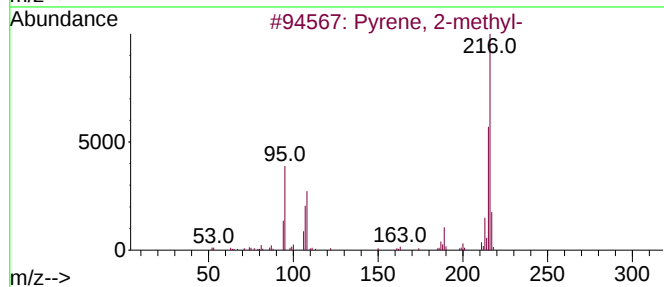
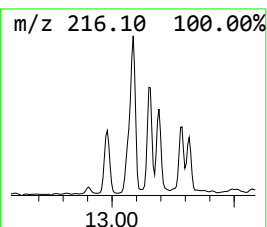
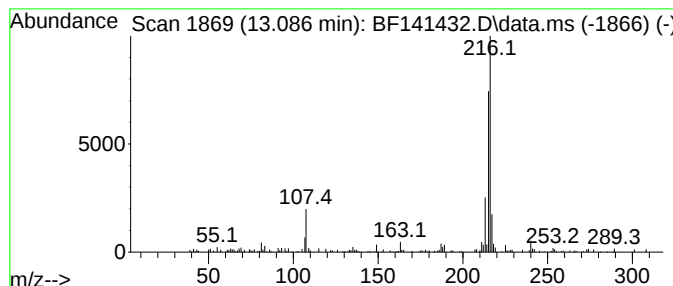
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 Pyrene, 2-methyl- Concentration Rank 16

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.086 | 2.51 ng | 101610 | Chrysene-d12     | 13.957 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Pyrene, 2-methyl-                   | 216 | C17H12   | 003442-78-2 | 78   |
| 2    |    |   | Pyrene, 1-methyl-                   | 216 | C17H12   | 002381-21-7 | 72   |
| 3    |    |   | 11H-Benzo[b]fluorene                | 216 | C17H12   | 000243-17-4 | 72   |
| 4    |    |   | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 64   |
| 5    |    |   | Fluoranthene, 2-methyl-             | 216 | C17H12   | 033543-31-6 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141432.D  
Acq On : 05 Feb 2025 01:41  
Operator : RC/JU  
Sample : Q1281-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02--2-03-2025

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 |
| Tridecane          | 8.663  | 2.6     | ng    | 99361    | 2                     | 8.069  | 771895 | 20.0 |
| Tetradecane        | 9.228  | 4.3     | ng    | 151970   | 3                     | 9.828  | 712155 | 20.0 |
| Pentadecane        | 9.763  | 3.7     | ng    | 130513   | 3                     | 9.828  | 712155 | 20.0 |
| Hexadecane         | 10.263 | 3.7     | ng    | 132160   | 3                     | 9.828  | 712155 | 20.0 |
| Benzophenone       | 10.539 | 13.7    | ng    | 487974   | 3                     | 9.828  | 712155 | 20.0 |
| Dodecane, 1-iodo-  | 10.733 | 5.6     | ng    | 190034   | 4                     | 11.316 | 675367 | 20.0 |
| Methanone, (1-h... | 10.851 | 2.5     | ng    | 84889    | 4                     | 11.316 | 675367 | 20.0 |
| Heptadecane        | 11.181 | 4.0     | ng    | 134795   | 4                     | 11.316 | 675367 | 20.0 |
| Dibenzothiophene   | 11.210 | 2.8     | ng    | 94746    | 4                     | 11.316 | 675367 | 20.0 |
| Dodecane, 2-met... | 11.610 | 3.0     | ng    | 102242   | 4                     | 11.316 | 675367 | 20.0 |
| Hexadecanoic ac... | 11.710 | 9.1     | ng    | 306780   | 4                     | 11.316 | 675367 | 20.0 |
| Phenanthrene, 1... | 11.816 | 2.0     | ng    | 68589    | 4                     | 11.316 | 675367 | 20.0 |
| n-Hexadecanoic ... | 11.845 | 13.6    | ng    | 459016   | 4                     | 11.316 | 675367 | 20.0 |
| 4H-Cyclopenta[d... | 11.928 | 6.1     | ng    | 206985   | 4                     | 11.316 | 675367 | 20.0 |
| Tetradecane, 1-... | 12.016 | 2.3     | ng    | 78775    | 4                     | 11.316 | 675367 | 20.0 |
| 9,12-Octadecadi... | 12.398 | 18.2    | ng    | 615049   | 4                     | 11.316 | 675367 | 20.0 |
| Octadecanoic acid  | 12.633 | 5.3     | ng    | 179753   | 4                     | 11.316 | 675367 | 20.0 |
| Pyrene, 2-methyl-  | 13.086 | 2.5     | ng    | 101610   | 5                     | 13.957 | 810641 | 20.0 |