

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP043025\  
 Data File : BP024483.D  
 Acq On : 30 Apr 2025 21:32  
 Operator : RC/JU  
 Sample : Q1904-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 VNJ-210

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\_P\Methods\8270E-BP041425.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024483.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         | 4.875       | 299           | 304         | 313          | rBV      | 180195         | 248537        | 3.64%           | 0.494%        |
| 2         | 5.334       | 375           | 382         | 396          | rBV      | 1814772        | 2740882       | 40.18%          | 5.451%        |
| 3         | 6.899       | 638           | 648         | 664          | rBV      | 1898031        | 2984505       | 43.75%          | 5.936%        |
| 4         | 7.710       | 779           | 786         | 794          | rBV      | 613546         | 949184        | 13.91%          | 1.888%        |
| 5         | 8.857       | 972           | 981         | 999          | rBV      | 1160225        | 1933440       | 28.34%          | 3.845%        |
| 6         | 9.775       | 1128          | 1137        | 1154         | rBV2     | 66475          | 258627        | 3.79%           | 0.514%        |
| 7         | 10.481      | 1250          | 1257        | 1270         | rBV      | 776791         | 1333589       | 19.55%          | 2.652%        |
| 8         | 11.416      | 1408          | 1416        | 1433         | rBV2     | 50708          | 177235        | 2.60%           | 0.352%        |
| 9         | 12.951      | 1670          | 1677        | 1691         | rBV      | 3075194        | 4590263       | 67.29%          | 9.129%        |
| 10        | 14.181      | 1875          | 1886        | 1907         | rBV      | 885462         | 2019123       | 29.60%          | 4.016%        |
| 11        | 14.339      | 1907          | 1913        | 1920         | rVV      | 1143632        | 1781428       | 26.11%          | 3.543%        |
| 12        | 14.404      | 1920          | 1924        | 1933         | rVB      | 39584          | 77782         | 1.14%           | 0.155%        |
| 13        | 15.728      | 2142          | 2149        | 2162         | rVB      | 742198         | 1087822       | 15.95%          | 2.163%        |
| 14        | 15.863      | 2165          | 2172        | 2191         | rVV      | 2648529        | 3963522       | 58.10%          | 7.883%        |
| 15        | 16.304      | 2242          | 2247        | 2256         | rVB      | 112747         | 165578        | 2.43%           | 0.329%        |
| 16        | 17.145      | 2384          | 2390        | 2394         | rBV2     | 1469601        | 2054450       | 30.12%          | 4.086%        |
| 17        | 17.186      | 2394          | 2397        | 2404         | rVB      | 546908         | 754583        | 11.06%          | 1.501%        |
| 18        | 17.281      | 2409          | 2413        | 2419         | rVB      | 60195          | 99726         | 1.46%           | 0.198%        |
| 19        | 17.569      | 2454          | 2462        | 2469         | rBV      | 72835          | 158142        | 2.32%           | 0.315%        |
| 20        | 18.051      | 2537          | 2544        | 2546         | rBV      | 54305          | 87818         | 1.29%           | 0.175%        |
| 21        | 18.092      | 2546          | 2551        | 2560         | rVB2     | 516972         | 821167        | 12.04%          | 1.633%        |
| 22        | 18.251      | 2572          | 2578        | 2582         | rBV2     | 86061          | 163048        | 2.39%           | 0.324%        |
| 23        | 18.527      | 2622          | 2625        | 2629         | rBV2     | 55791          | 76349         | 1.12%           | 0.152%        |
| 24        | 18.575      | 2629          | 2633        | 2636         | rVV      | 54201          | 77982         | 1.14%           | 0.155%        |
| 25        | 18.616      | 2636          | 2640        | 2645         | rVB      | 113047         | 157474        | 2.31%           | 0.313%        |
| 26        | 19.145      | 2727          | 2730        | 2739         | rVB      | 59947          | 92407         | 1.35%           | 0.184%        |
| 27        | 19.275      | 2747          | 2752        | 2758         | rBV      | 1233950        | 1835644       | 26.91%          | 3.651%        |
| 28        | 19.416      | 2773          | 2776        | 2783         | rBV3     | 154172         | 230656        | 3.38%           | 0.459%        |
| 29        | 19.651      | 2807          | 2816        | 2822         | rBV      | 1019186        | 1743393       | 25.56%          | 3.467%        |
| 30        | 19.733      | 2827          | 2830        | 2835         | rVB2     | 62627          | 84574         | 1.24%           | 0.168%        |
| 31        | 19.874      | 2845          | 2854        | 2860         | rBV      | 5406236        | 6821622       | 100.00%         | 13.567%       |
| 32        | 20.169      | 2902          | 2904        | 2909         | rVB      | 110515         | 126295        | 1.85%           | 0.251%        |
| 33        | 20.557      | 2966          | 2970        | 2974         | rBV3     | 165480         | 250946        | 3.68%           | 0.499%        |
| 34        | 20.969      | 3037          | 3040        | 3047         | rVB      | 118811         | 171220        | 2.51%           | 0.341%        |
| 35        | 21.269      | 3088          | 3091        | 3096         | rVV      | 154601         | 228053        | 3.34%           | 0.454%        |
| 36        | 21.316      | 3096          | 3099        | 3111         | rVB      | 181085         | 304647        | 4.47%           | 0.606%        |

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Sample : Q1904-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

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\_P\Methods\8270E-BP041425.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 21.592 | 3138 | 3146 | 3151 | rBV3 | 1555449 | 3137397 | 45.99% | 6.240% |
| 38 | 21.639 | 3151 | 3154 | 3167 | rVB  | 567801  | 888924  | 13.03% | 1.768% |
| 39 | 22.868 | 3360 | 3363 | 3369 | rVB2 | 142468  | 229206  | 3.36%  | 0.456% |
| 40 | 23.880 | 3528 | 3535 | 3542 | rBV  | 461801  | 1345591 | 19.73% | 2.676% |
| 41 | 24.627 | 3656 | 3662 | 3670 | rVB  | 256225  | 621403  | 9.11%  | 1.236% |
| 42 | 24.786 | 3682 | 3689 | 3699 | rVB  | 295635  | 796180  | 11.67% | 1.583% |
| 43 | 24.939 | 3707 | 3715 | 3725 | rBV2 | 936347  | 2611825 | 38.29% | 5.194% |

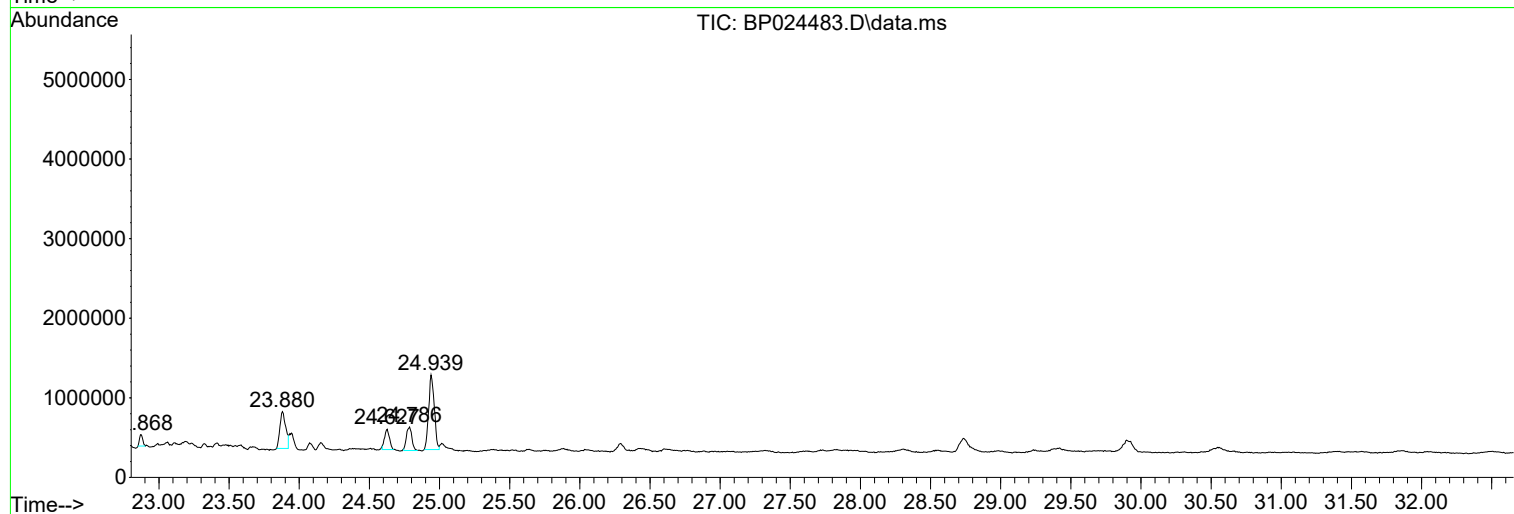
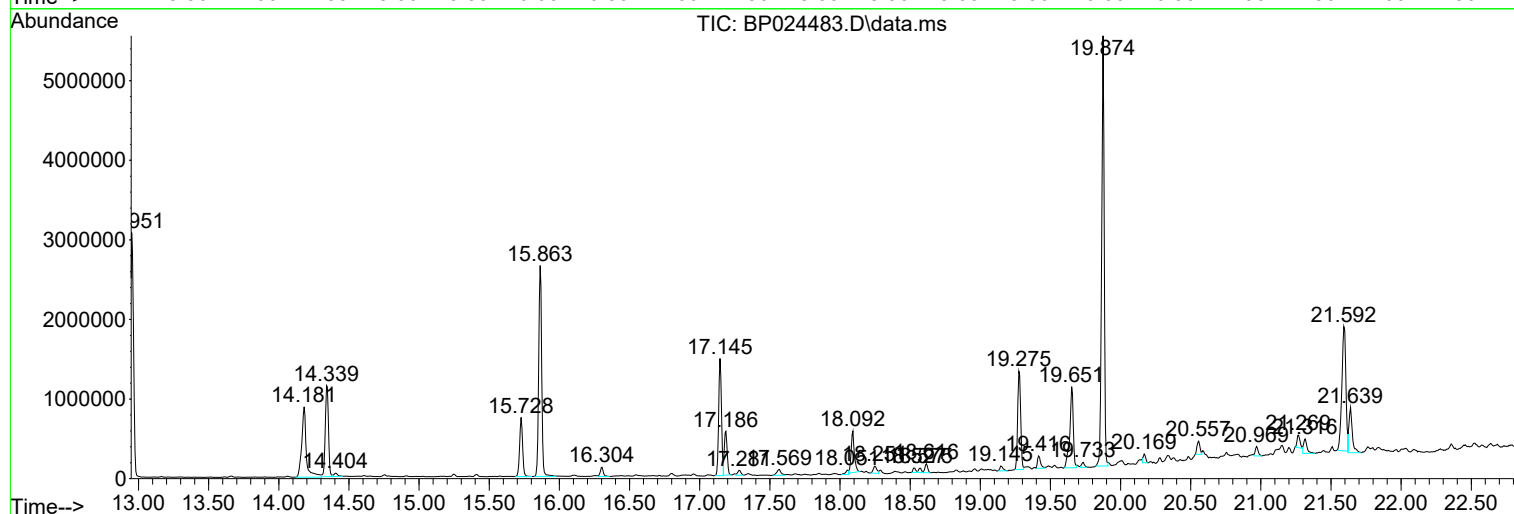
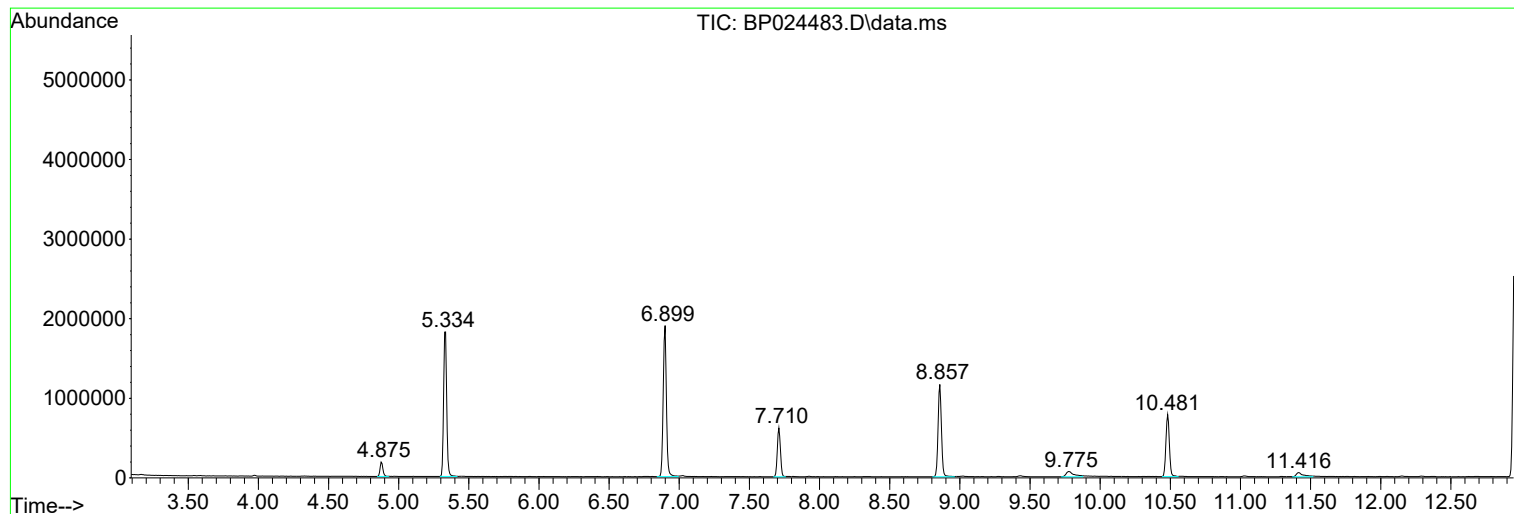
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP043025\  
Data File : BP024483.D  
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Operator : RC/JU  
Sample : Q1904-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.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\_P\Data\BP043025\  
Data File : BP024483.D  
Acq On : 30 Apr 2025 21:32  
Operator : RC/JU  
Sample : Q1904-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

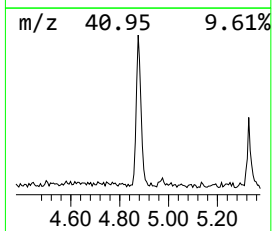
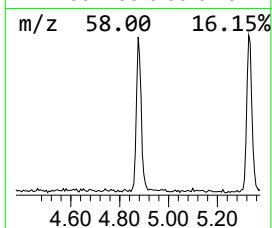
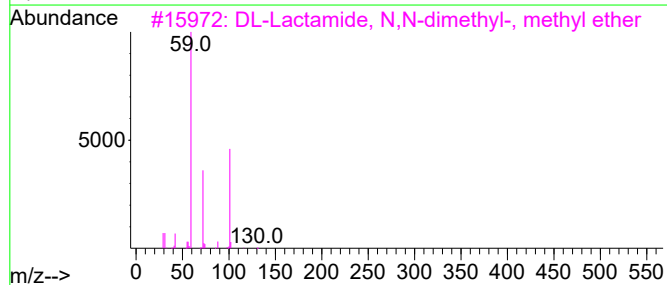
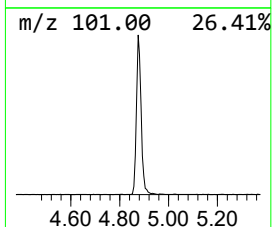
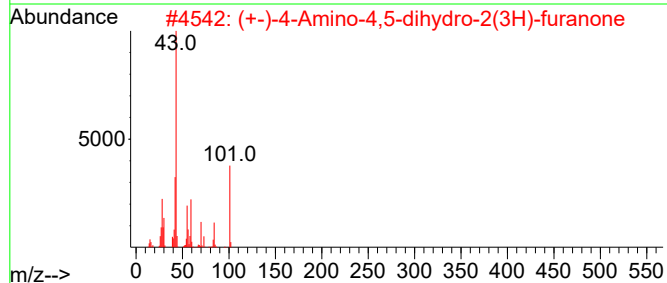
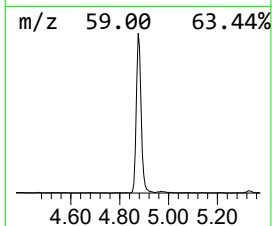
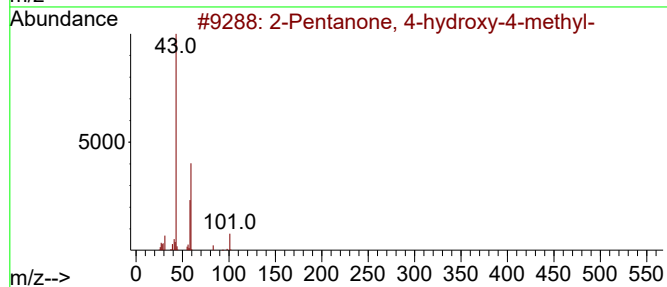
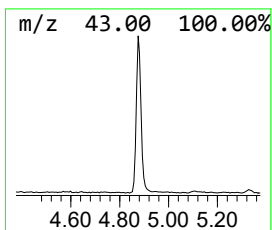
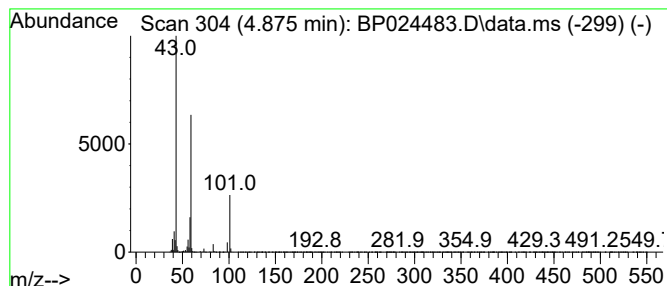
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 4.875 | 5.24 ng | 248537 | 1,4-Dichlorobenzene-d4 | 7.710 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2  | 64   |
| 2    |    |   | (+)-4-Amino-4,5-dihydro-2(3H)-f...  | 101 | C4H7NO2  | 016504-58-8  | 47   |
| 3    |    |   | DL-Lactamide, N,N-dimethyl-, met... | 131 | C6H13NO2 | 1000452-57-0 | 38   |
| 4    |    |   | 1,3-Dioxolane-2-methanol, 2,4-di... | 132 | C6H12O3  | 053951-43-2  | 23   |
| 5    |    |   | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6  | 17   |



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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

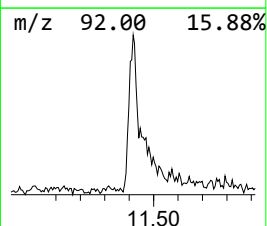
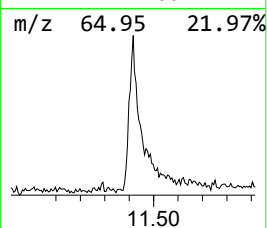
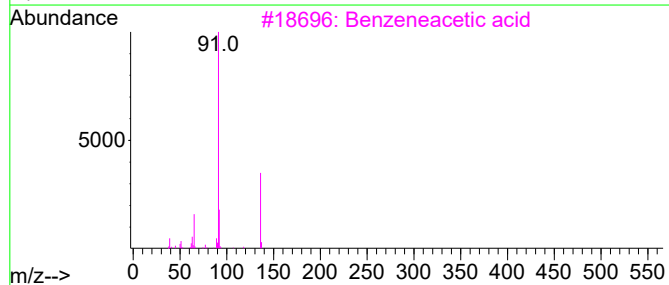
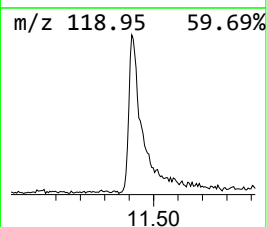
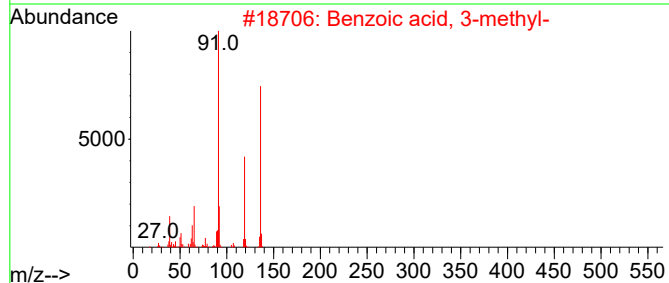
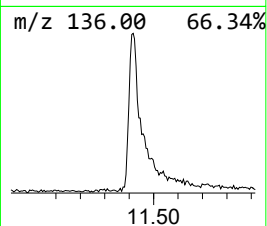
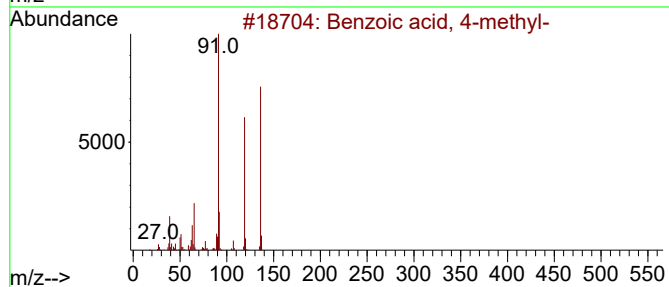
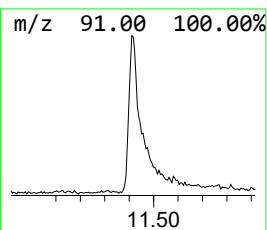
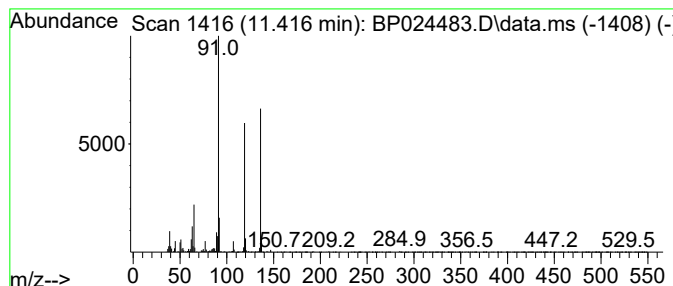
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Benzoic acid, 4-methyl- Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.416 | 2.66 ng | 177235 | Naphthalene-d8   | 10.481 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzoic acid, 4-methyl-     | 136 | C8H8O2  | 000099-94-5 | 96   |
| 2    |    |   | Benzoic acid, 3-methyl-     | 136 | C8H8O2  | 000099-04-7 | 87   |
| 3    |    |   | Benzeneacetic acid          | 136 | C8H8O2  | 000103-82-2 | 64   |
| 4    |    |   | Benzamide, 4-methyl-        | 135 | C8H9NO  | 000619-55-6 | 53   |
| 5    |    |   | Benzoyl chloride, 4-methyl- | 154 | C8H7ClO | 000874-60-2 | 52   |



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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

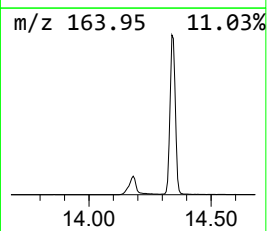
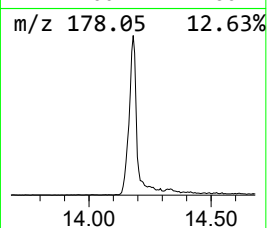
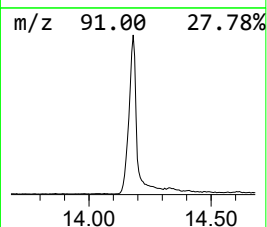
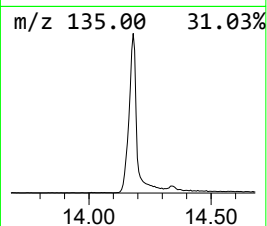
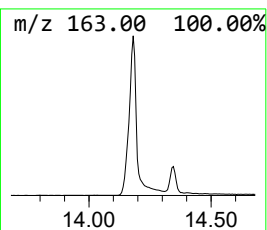
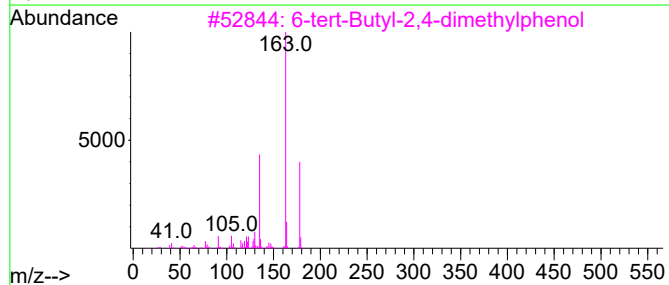
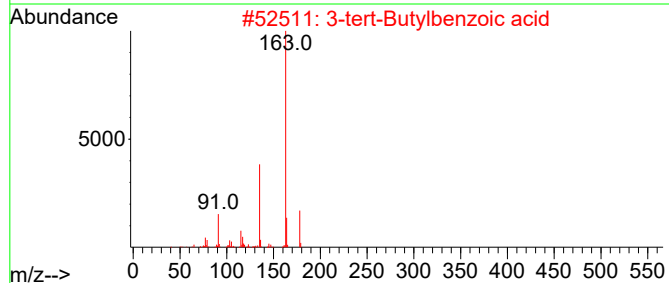
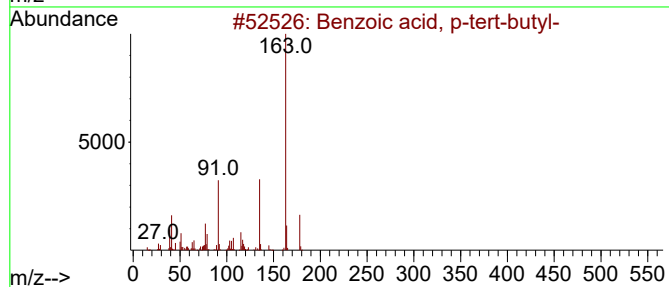
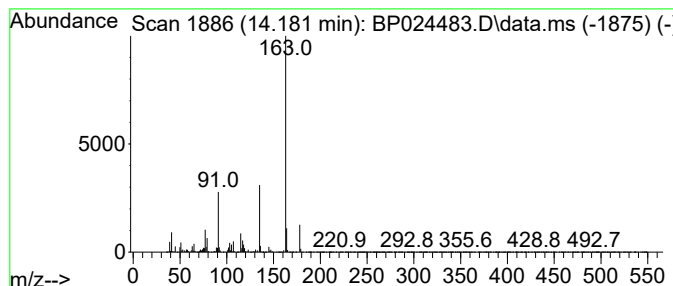
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Benzoic acid, p-tert-butyl- Concentration Rank 1

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 14.181 | 22.67 ng | 2019120 | Acenaphthene-d10 | 14.339 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Benzoic acid, p-tert-butyl-         | 178 | C11H14O2 | 000098-73-7 | 96   |
| 2    |    |   | 3-tert-Butylbenzoic acid            | 178 | C11H14O2 | 007498-54-6 | 94   |
| 3    |    |   | 6-tert-Butyl-2,4-dimethylphenol     | 178 | C12H18O  | 001879-09-0 | 74   |
| 4    |    |   | Benzaldehyde, 5-(1,1-dimethyleth... | 178 | C11H14O2 | 002725-53-3 | 64   |
| 5    |    |   | Benzoic acid, 4-acetyl-, methyl ... | 178 | C10H10O3 | 003609-53-8 | 59   |



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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

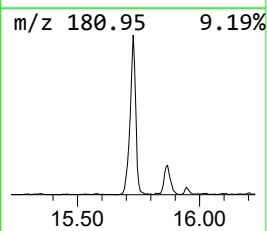
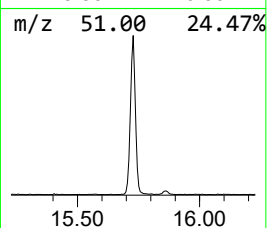
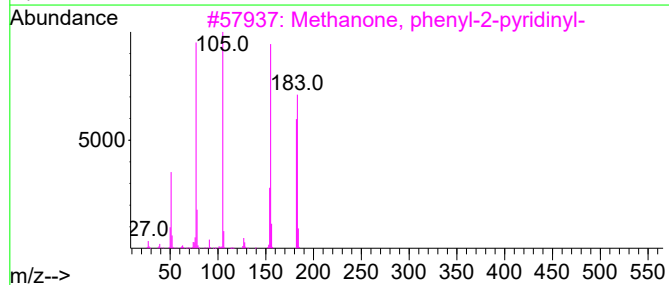
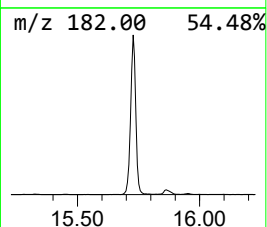
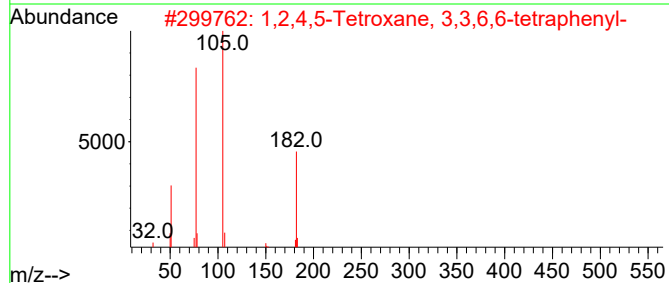
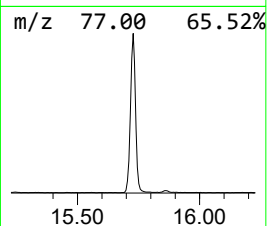
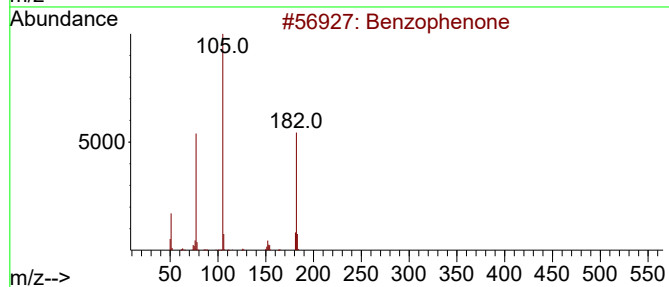
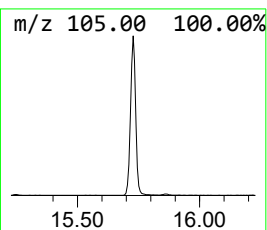
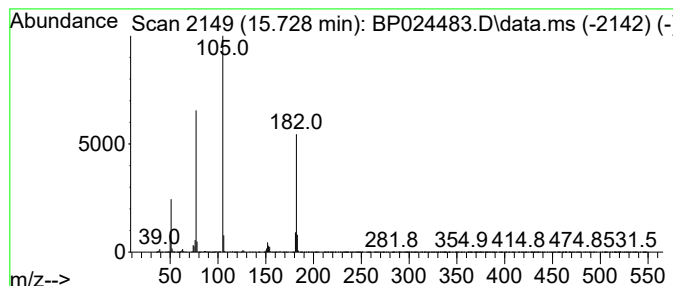
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Benzophenone Concentration Rank 2

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 15.728 | 12.21 ng | 1087820 | Acenaphthene-d10 | 14.339 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O  | 000119-61-9 | 96   |
| 2    |    |   | 1,2,4,5-Tetroxane, 3,3,6,6-tetra... | 396 | C26H20O4 | 016204-36-7 | 64   |
| 3    |    |   | Methanone, phenyl-2-pyridinyl-      | 183 | C12H9NO  | 000091-02-1 | 56   |
| 4    |    |   | Azobenzene                          | 182 | C12H10N2 | 000103-33-3 | 45   |
| 5    |    |   | Benzenamine, N-(3-pyridinylmethy... | 182 | C12H10N2 | 029722-97-2 | 42   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP043025\  
Data File : BP024483.D  
Acq On : 30 Apr 2025 21:32  
Operator : RC/JU  
Sample : Q1904-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

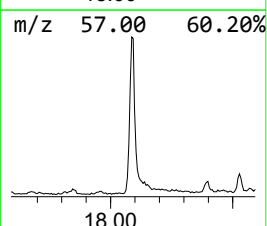
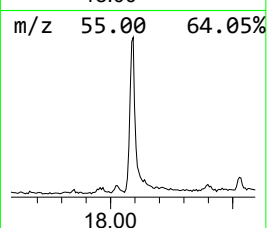
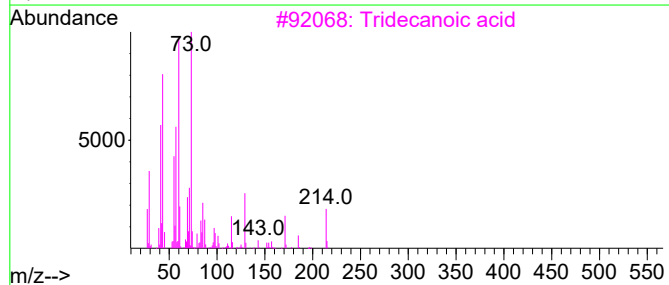
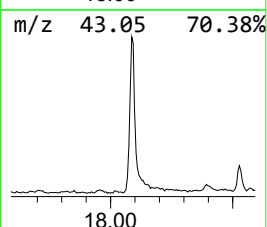
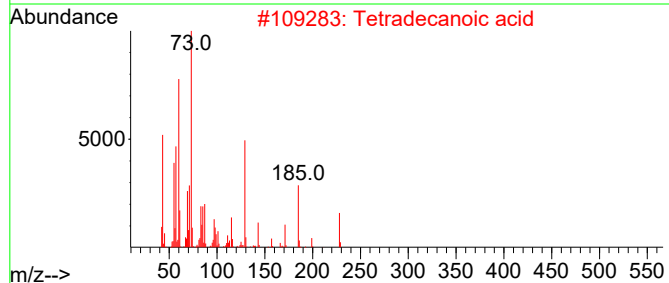
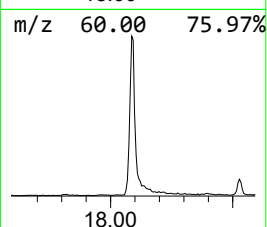
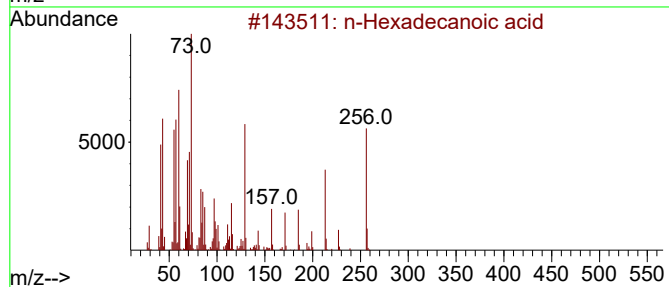
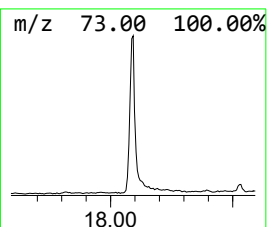
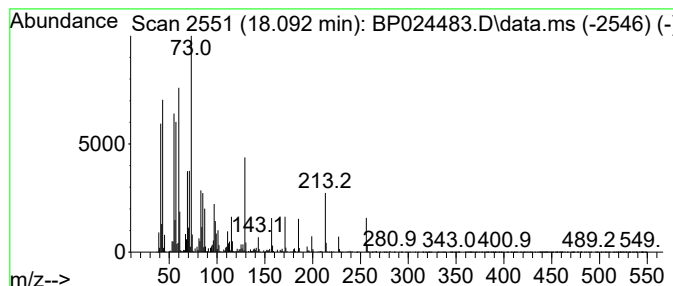
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.092 | 7.99 ng | 821167 | Phenanthrene-d10 | 17.145 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |
| 3    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 90   |
| 4    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 5    |    |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP043025\  
Data File : BP024483.D  
Acq On : 30 Apr 2025 21:32  
Operator : RC/JU  
Sample : Q1904-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

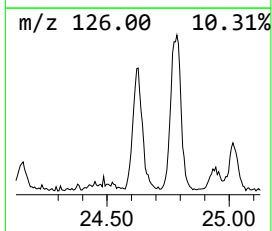
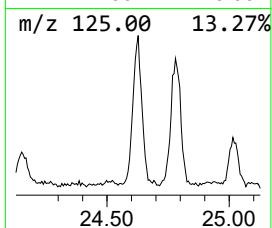
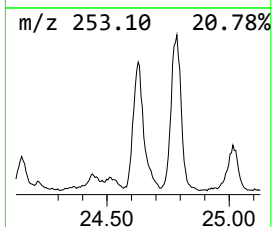
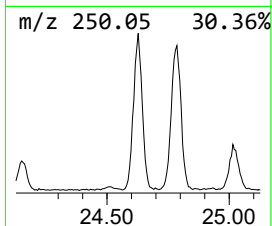
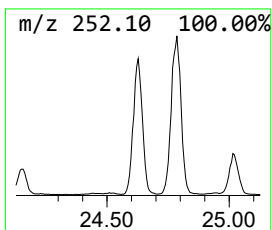
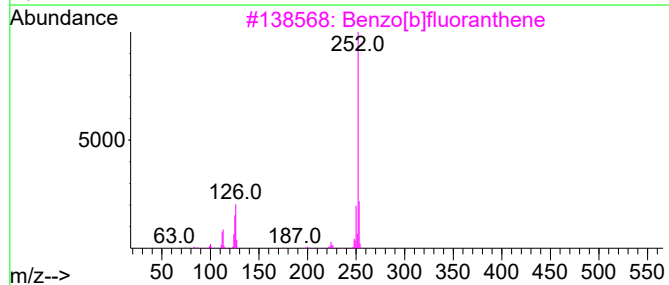
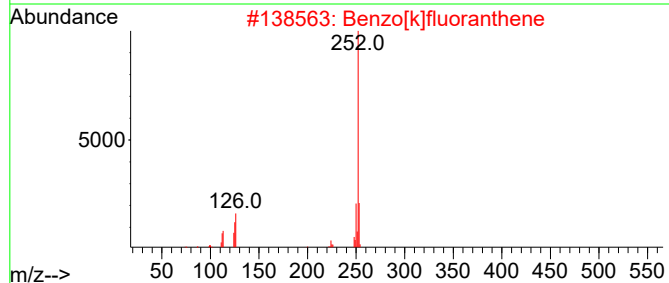
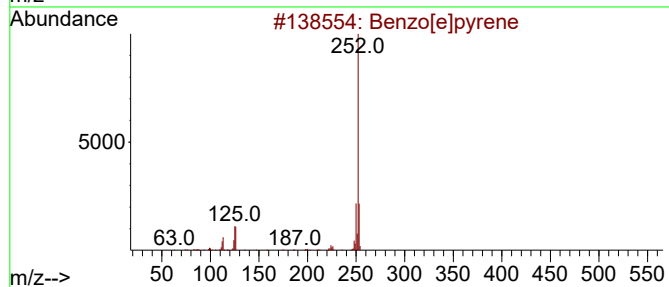
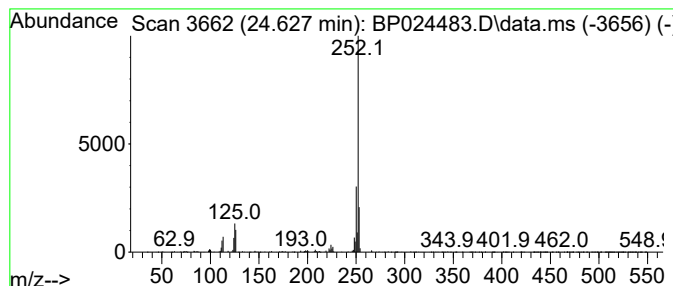
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Benzo[e]pyrene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 24.627 | 4.76 ng | 621403 | Perylene-d12     | 24.939 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 99   |
| 2    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 97   |
| 3    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 94   |
| 4    |      | Perylene             | 252 | C20H12  | 000198-55-0 | 93   |
| 5    |      | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP043025\  
Data File : BP024483.D  
Acq On : 30 Apr 2025 21:32  
Operator : RC/JU  
Sample : Q1904-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-210

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.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 |
| 2-Pentanone, 4-... | 4.875  | 5.2     | ng    | 248537   | 1                     | 7.710  | 949184  | 20.0 |
| Benzoic acid, 4... | 11.416 | 2.7     | ng    | 177235   | 2                     | 10.481 | 1333590 | 20.0 |
| Benzoic acid, p... | 14.181 | 22.7    | ng    | 2019120  | 3                     | 14.339 | 1781430 | 20.0 |
| Benzophenone       | 15.728 | 12.2    | ng    | 1087820  | 3                     | 14.339 | 1781430 | 20.0 |
| n-Hexadecanoic ... | 18.092 | 8.0     | ng    | 821167   | 4                     | 17.145 | 2054450 | 20.0 |
| Benzo[e]pyrene     | 24.627 | 4.8     | ng    | 621403   | 6                     | 24.939 | 2611830 | 20.0 |