

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120622\  
 Data File : BG055910.D  
 Acq On : 6 Dec 2022 19:27  
 Operator : CG/JU  
 Sample : N5885-01 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JC-04-120522

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\_G\Methods\8270-BG111622.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG055910.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         | 5.209       | 320           | 327         | 338          | rVB      | 42547          | 69210         | 6.74%           | 0.834%        |
| 2         | 5.702       | 403           | 411         | 423          | rBV      | 84906          | 144046        | 14.03%          | 1.736%        |
| 3         | 7.324       | 676           | 687         | 700          | rBV      | 87291          | 161195        | 15.70%          | 1.943%        |
| 4         | 8.164       | 824           | 830         | 837          | rVB      | 148662         | 248474        | 24.20%          | 2.995%        |
| 5         | 9.339       | 1024          | 1030        | 1036         | rBV      | 57551          | 104373        | 10.17%          | 1.258%        |
| 6         | 10.996      | 1305          | 1312        | 1318         | rVV      | 208920         | 379821        | 36.99%          | 4.578%        |
| 7         | 11.049      | 1318          | 1321        | 1329         | rVB      | 14415          | 22232         | 2.17%           | 0.268%        |
| 8         | 12.371      | 1541          | 1546        | 1553         | rBV2     | 8435           | 12365         | 1.20%           | 0.149%        |
| 9         | 12.641      | 1586          | 1592        | 1598         | rBV      | 9093           | 13815         | 1.35%           | 0.167%        |
| 10        | 12.859      | 1622          | 1629        | 1636         | rVB      | 7858           | 11605         | 1.13%           | 0.140%        |
| 11        | 13.417      | 1717          | 1724        | 1733         | rBV      | 151288         | 233515        | 22.74%          | 2.815%        |
| 12        | 13.599      | 1748          | 1755        | 1758         | rBV      | 8598           | 12564         | 1.22%           | 0.151%        |
| 13        | 14.116      | 1836          | 1843        | 1848         | rBV3     | 10108          | 17841         | 1.74%           | 0.215%        |
| 14        | 14.798      | 1947          | 1959        | 1965         | rVV      | 333441         | 532933        | 51.91%          | 6.424%        |
| 15        | 14.862      | 1965          | 1970        | 1976         | rVB      | 43078          | 63078         | 6.14%           | 0.760%        |
| 16        | 15.103      | 2004          | 2011        | 2016         | rBV3     | 5604           | 11314         | 1.10%           | 0.136%        |
| 17        | 15.191      | 2019          | 2026        | 2034         | rVV      | 30763          | 51047         | 4.97%           | 0.615%        |
| 18        | 15.262      | 2034          | 2038        | 2046         | rVB4     | 6709           | 10891         | 1.06%           | 0.131%        |
| 19        | 15.608      | 2093          | 2097        | 2102         | rVB2     | 9903           | 13500         | 1.31%           | 0.163%        |
| 20        | 15.843      | 2129          | 2137        | 2142         | rBV      | 40245          | 67247         | 6.55%           | 0.811%        |
| 21        | 16.002      | 2160          | 2164        | 2169         | rVB6     | 9627           | 15076         | 1.47%           | 0.182%        |
| 22        | 16.131      | 2182          | 2186        | 2193         | rVB2     | 14127          | 23723         | 2.31%           | 0.286%        |
| 23        | 16.284      | 2206          | 2212        | 2219         | rBV3     | 112275         | 184489        | 17.97%          | 2.224%        |
| 24        | 16.472      | 2239          | 2244        | 2245         | rBV2     | 10575          | 15488         | 1.51%           | 0.187%        |
| 25        | 16.842      | 2297          | 2307        | 2312         | rBV5     | 13027          | 33420         | 3.25%           | 0.403%        |
| 26        | 16.889      | 2312          | 2315        | 2318         | rBV3     | 8289           | 11665         | 1.14%           | 0.141%        |
| 27        | 16.989      | 2329          | 2332        | 2336         | rVB3     | 8149           | 11660         | 1.14%           | 0.141%        |
| 28        | 17.107      | 2348          | 2352        | 2361         | rVB8     | 8960           | 19869         | 1.94%           | 0.240%        |
| 29        | 17.195      | 2361          | 2367        | 2371         | rBV2     | 16456          | 26697         | 2.60%           | 0.322%        |
| 30        | 17.259      | 2374          | 2378        | 2384         | rBV6     | 15041          | 33412         | 3.25%           | 0.403%        |
| 31        | 17.359      | 2391          | 2395        | 2402         | rVB      | 20307          | 32247         | 3.14%           | 0.389%        |
| 32        | 17.541      | 2420          | 2426        | 2430         | rBV      | 412419         | 636103        | 61.95%          | 7.668%        |
| 33        | 17.583      | 2430          | 2433        | 2439         | rVV      | 323806         | 453911        | 44.21%          | 5.471%        |
| 34        | 17.677      | 2443          | 2449        | 2454         | rVV      | 75688          | 118372        | 11.53%          | 1.427%        |
| 35        | 17.729      | 2456          | 2458        | 2462         | rVB2     | 11072          | 13764         | 1.34%           | 0.166%        |
| 36        | 17.941      | 2487          | 2494        | 2501         | rBV2     | 26238          | 58456         | 5.69%           | 0.705%        |

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 Sample : N5885-01 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JC-04-120522

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\_G\Methods\8270-BG111622.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 37 | 17.994 | 2501 | 2503 | 2507 | rVB2 | 10299  | 12295   | 1.20%   | 0.148%  |
| 38 | 18.123 | 2521 | 2525 | 2530 | rBV2 | 8823   | 13827   | 1.35%   | 0.167%  |
| 39 | 18.411 | 2569 | 2574 | 2578 | rBV  | 57889  | 88755   | 8.64%   | 1.070%  |
| 40 | 18.458 | 2578 | 2582 | 2588 | rVB  | 63425  | 96757   | 9.42%   | 1.166%  |
| 41 | 18.540 | 2592 | 2596 | 2602 | rBV  | 28223  | 40818   | 3.98%   | 0.492%  |
| 42 | 18.611 | 2602 | 2608 | 2612 | rBV2 | 82494  | 171923  | 16.74%  | 2.072%  |
| 43 | 18.899 | 2654 | 2657 | 2662 | rVB  | 38150  | 52079   | 5.07%   | 0.628%  |
| 44 | 18.952 | 2663 | 2666 | 2672 | rVB2 | 27180  | 37275   | 3.63%   | 0.449%  |
| 45 | 19.316 | 2723 | 2728 | 2733 | rBV2 | 40194  | 79950   | 7.79%   | 0.964%  |
| 46 | 19.586 | 2768 | 2774 | 2779 | rBV  | 575155 | 823390  | 80.20%  | 9.925%  |
| 47 | 19.909 | 2825 | 2829 | 2831 | rBV2 | 90311  | 132199  | 12.88%  | 1.594%  |
| 48 | 19.944 | 2831 | 2835 | 2842 | rVB  | 535814 | 748266  | 72.88%  | 9.020%  |
| 49 | 20.127 | 2861 | 2866 | 2870 | rVB2 | 246329 | 316241  | 30.80%  | 3.812%  |
| 50 | 20.526 | 2931 | 2934 | 2938 | rBV2 | 65519  | 86220   | 8.40%   | 1.039%  |
| 51 | 21.819 | 3147 | 3154 | 3159 | rBV2 | 420434 | 1026734 | 100.00% | 12.376% |
| 52 | 21.872 | 3160 | 3163 | 3170 | rVB  | 221079 | 337422  | 32.86%  | 4.067%  |
| 53 | 24.110 | 3538 | 3544 | 3551 | rBV2 | 112978 | 362390  | 35.30%  | 4.368%  |

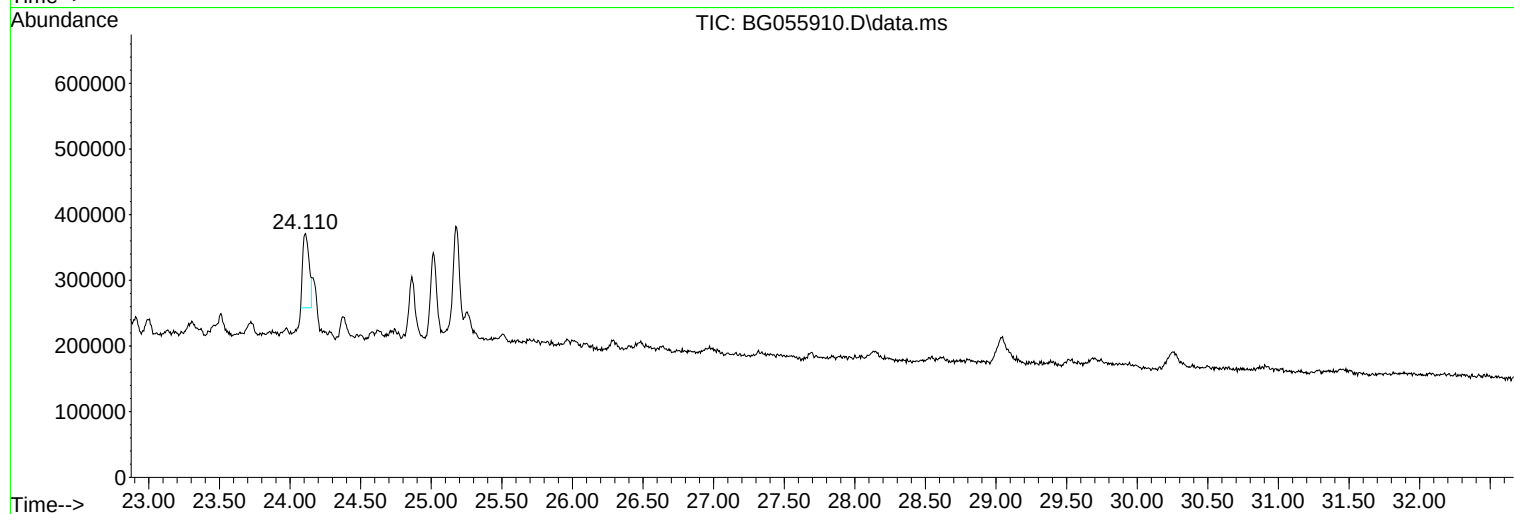
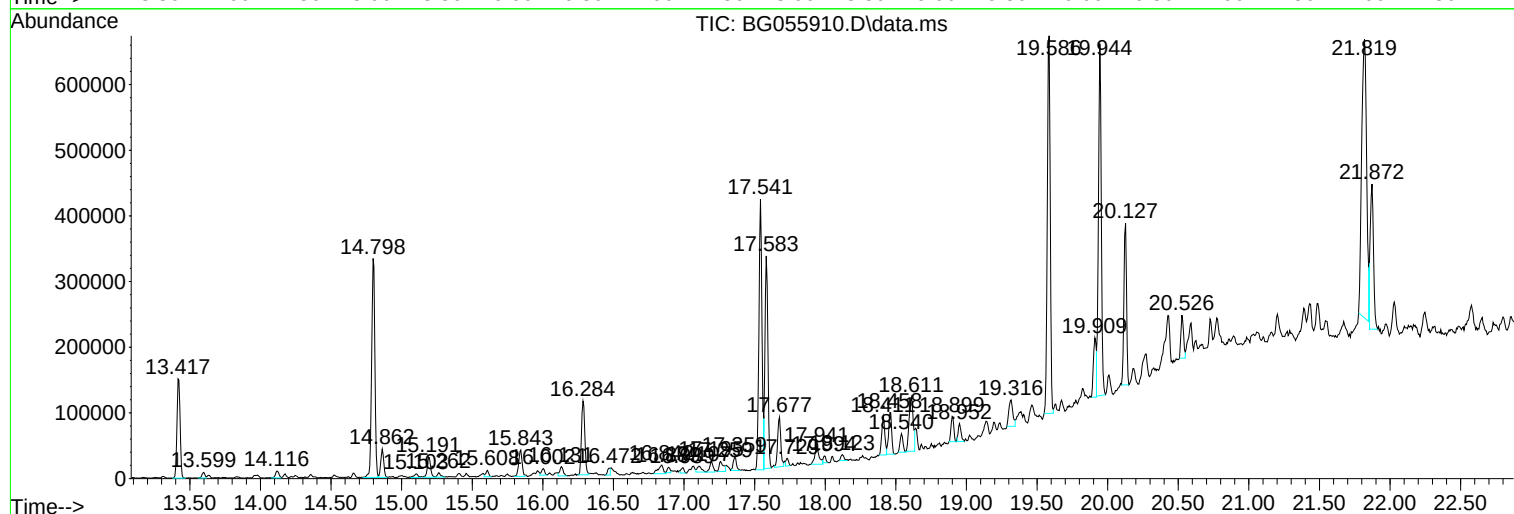
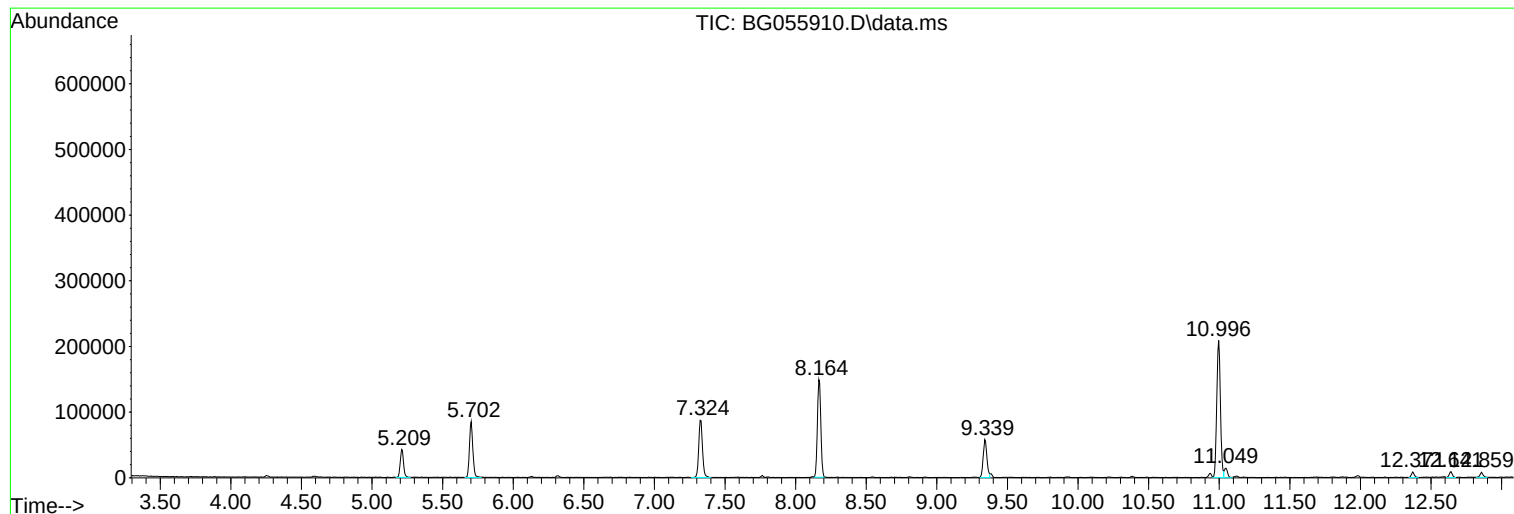
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JC-04-120522

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.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\_G\Data\BG120622\  
Data File : BG055910.D  
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Operator : CG/JU  
Sample : N5885-01 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JC-04-120522

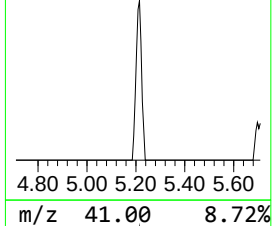
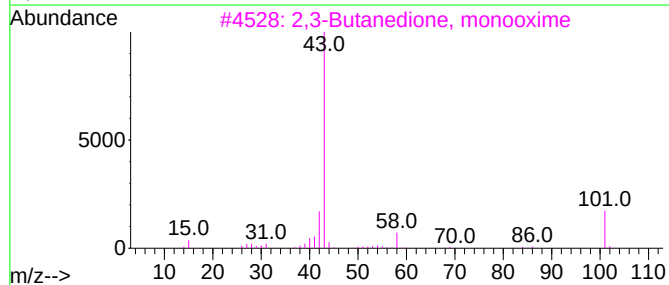
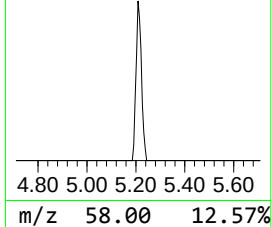
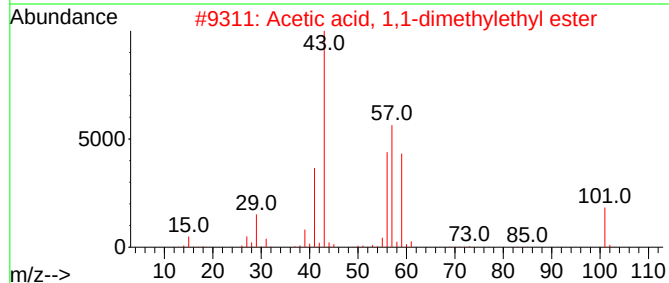
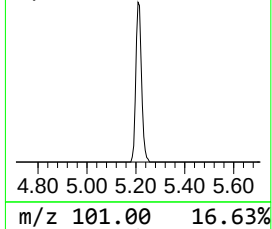
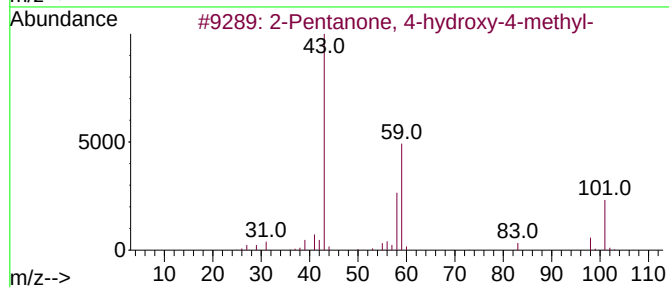
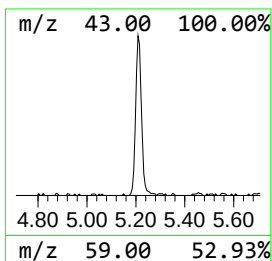
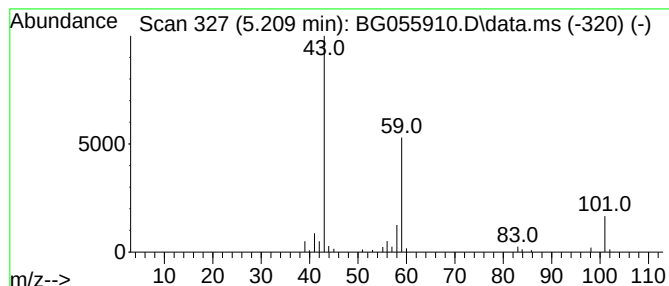
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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 1

| R.T.      | EstConc                             | Area  | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|-------|------------------------|-------------|------|
| 5.209     | 5.57 ng                             | 69210 | 1,4-Dichlorobenzene-d4 | 8.170       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm                | CAS#        | Qual |
| 1         | 2-Pentanone, 4-hydroxy-4-methyl-    | 116   | C6H12O2                | 000123-42-2 | 72   |
| 2         | Acetic acid, 1,1-dimethylethyl e... | 116   | C6H12O2                | 000540-88-5 | 38   |
| 3         | 2,3-Butanedione, monooxime          | 101   | C4H7NO2                | 000057-71-6 | 27   |
| 4         | 1,8-Nonanediol, 8-methyl-           | 174   | C10H22O2               | 054725-73-4 | 25   |
| 5         | Acetic acid, cyano-, 1,1-dimethy... | 141   | C7H11NO2               | 001116-98-9 | 25   |



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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

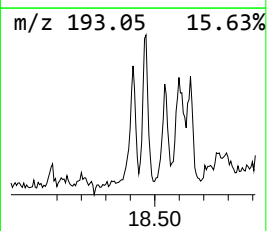
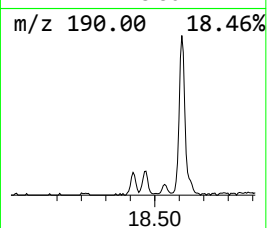
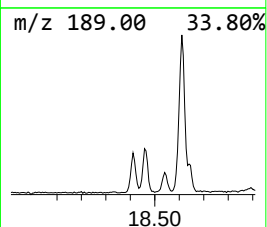
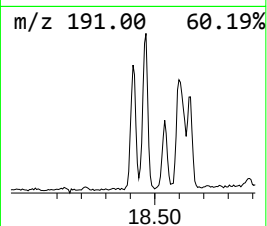
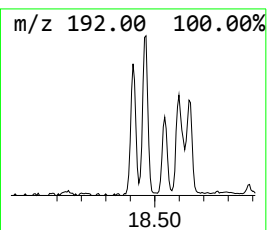
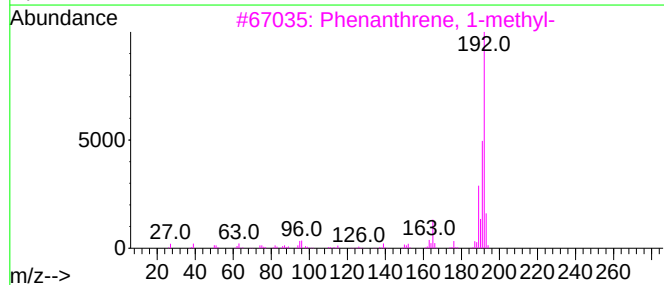
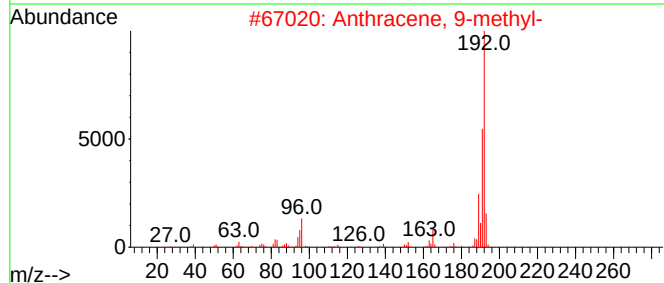
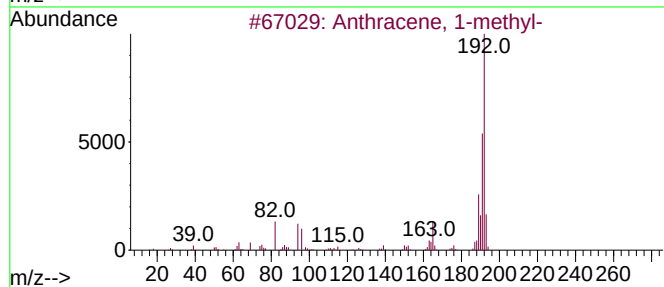
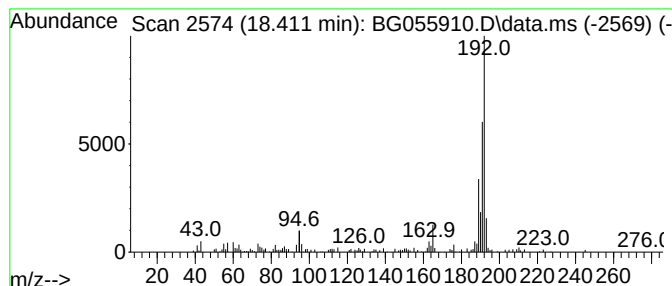
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Anthracene, 1-methyl- Concentration Rank 4

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 18.411 | 2.79 ng | 88755 | Phenanthrene-d10 | 17.541 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 96   |
| 2    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 95   |
| 3    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 94   |
| 4    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 94   |
| 5    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 93   |



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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

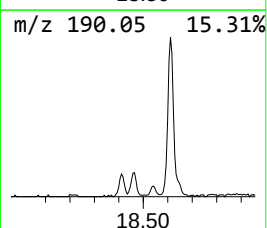
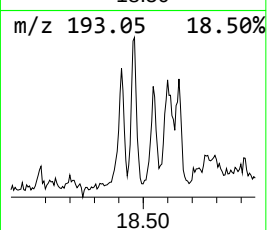
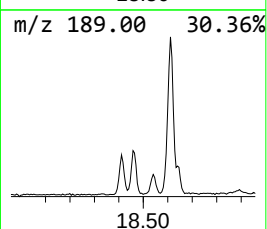
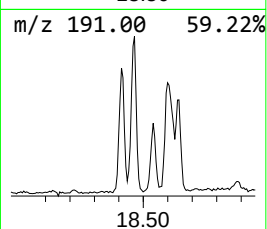
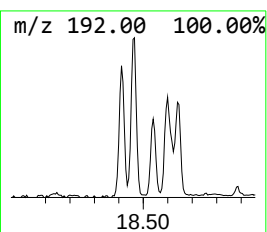
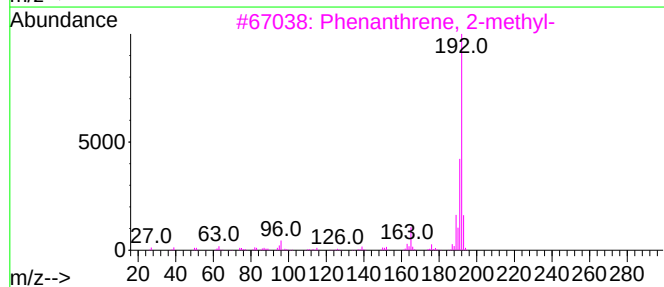
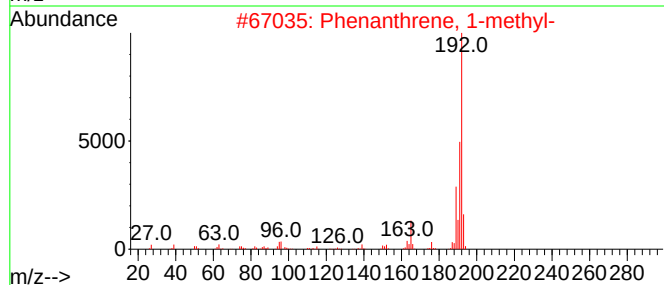
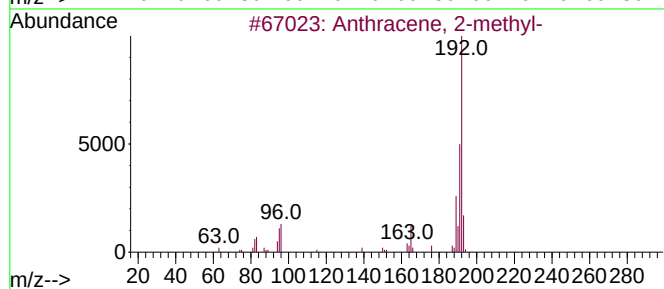
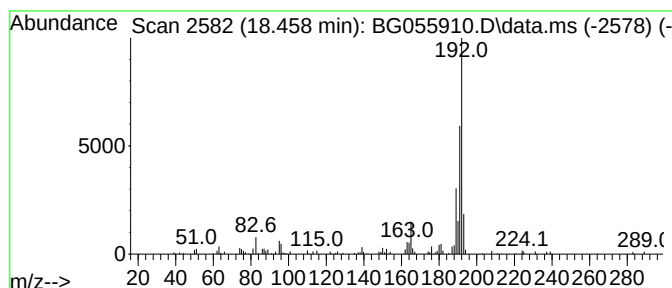
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 18.458 | 3.04 ng | 96757 | Phenanthrene-d10 | 17.541 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 94   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |



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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JC-04-120522

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

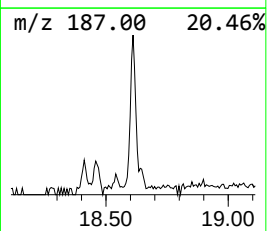
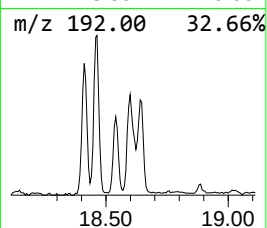
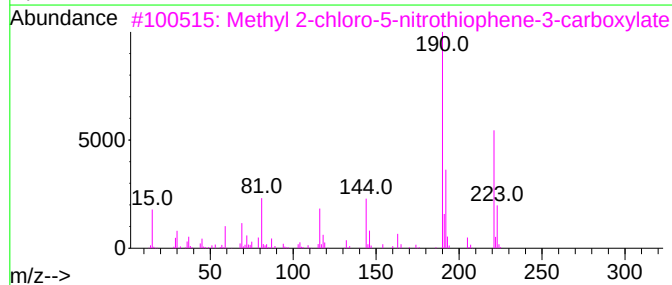
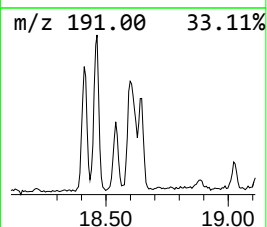
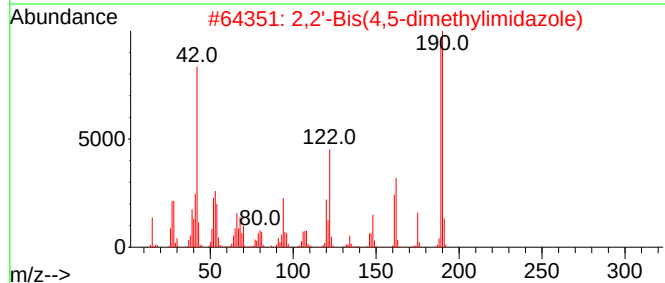
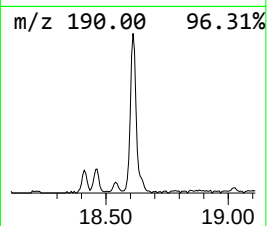
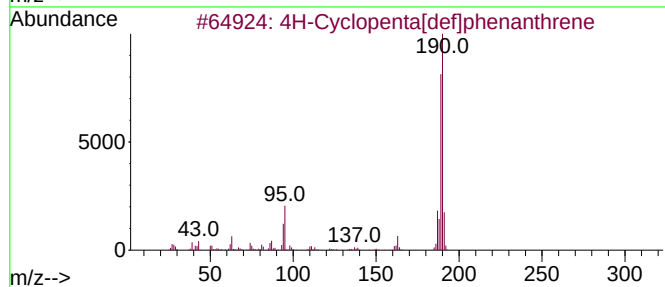
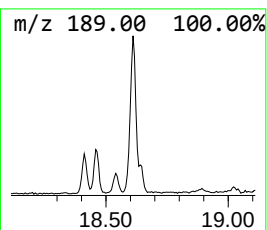
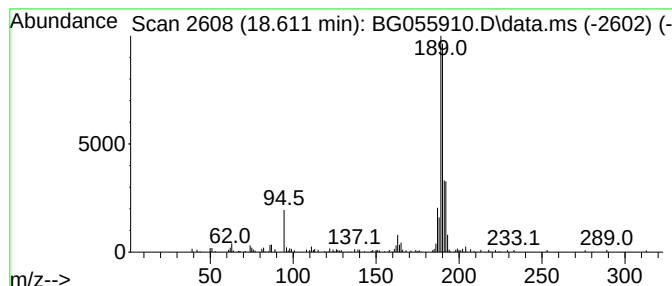
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.611 | 5.41 ng | 171923 | Phenanthrene-d10 | 17.541 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|------|-------------------------------------|-----|------------|--------------|------|
| 1    |      | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 76   |
| 2    |      | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2  | 45   |
| 3    |      | Methyl 2-chloro-5-nitrothiophene... | 221 | C6H4ClNO4S | 1000436-96-2 | 27   |
| 4    |      | Epilupeol; 20(29)-Lupen-3alpha-o... | 468 | C32H52O2   | 1010513-01-8 | 23   |
| 5    |      | Cyclohexanone, 2-(2-furanylmethy... | 190 | C12H14O2   | 056053-07-7  | 22   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120622\  
Data File : BG055910.D  
Acq On : 6 Dec 2022 19:27  
Operator : CG/JU  
Sample : N5885-01 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JC-04-120522

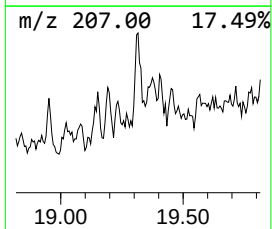
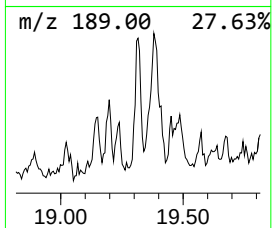
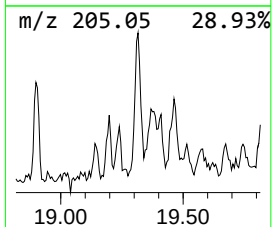
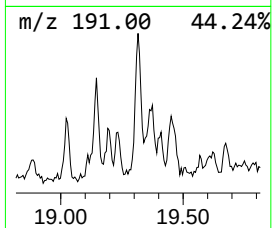
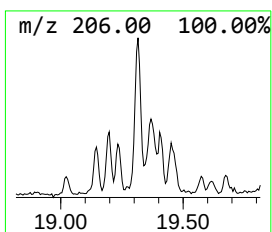
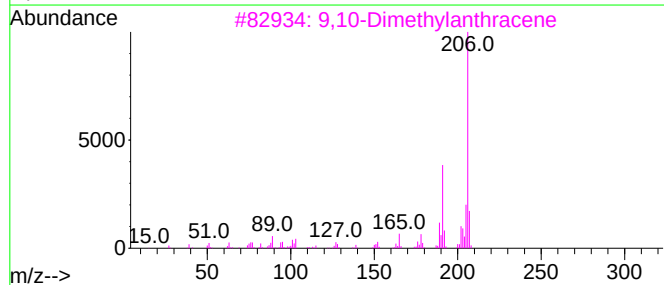
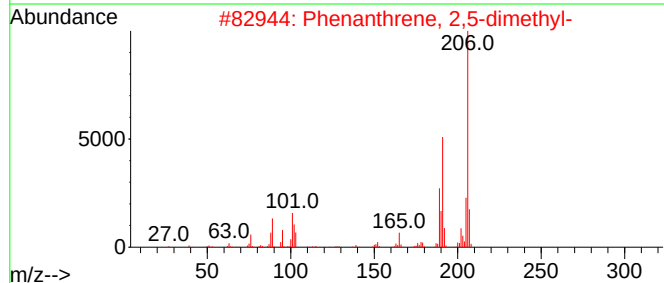
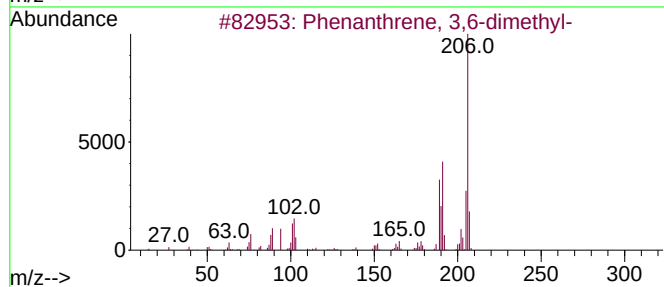
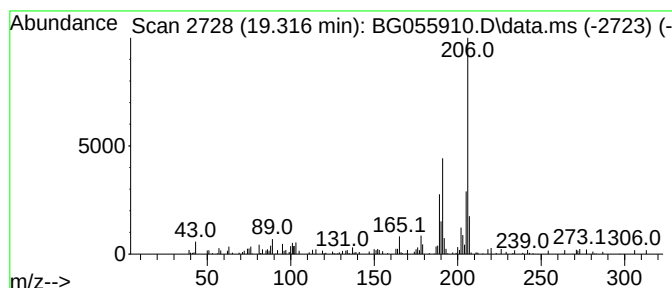
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Phenanthrene, 3,6-dimethyl- Concentration Rank 6

| R.T.      | EstConc                            | Area  | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|-------|------------------|-------------|------|
| 19.316    | 2.51 ng                            | 79950 | Phenanthrene-d10 | 17.541      |      |
| Hit# of 5 | Tentative ID                       | MW    | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 3,6-dimethyl-        | 206   | C16H14           | 001576-67-6 | 93   |
| 2         | Phenanthrene, 2,5-dimethyl-        | 206   | C16H14           | 003674-66-6 | 93   |
| 3         | 9,10-Dimethylantracene             | 206   | C16H14           | 000781-43-1 | 90   |
| 4         | Phenanthrene, 2,3-dimethyl-        | 206   | C16H14           | 003674-65-5 | 87   |
| 5         | Naphthalene, 1,2-dihydro-4-phenyl- | 206   | C16H14           | 007469-40-1 | 87   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120622\  
Data File : BG055910.D  
Acq On : 6 Dec 2022 19:27  
Operator : CG/JU  
Sample : N5885-01 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JC-04-120522

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| 2-Pentanone, 4-... | 5.209  | 5.6     | ng    | 69210    | 1                     | 8.170  | 248474 | 20.0 |
| Anthracene, 1-m... | 18.411 | 2.8     | ng    | 88755    | 4                     | 17.541 | 636103 | 20.0 |
| Anthracene, 2-m... | 18.458 | 3.0     | ng    | 96757    | 4                     | 17.541 | 636103 | 20.0 |
| 4H-Cyclopenta[d... | 18.611 | 5.4     | ng    | 171923   | 4                     | 17.541 | 636103 | 20.0 |
| Phenanthrene, 3... | 19.316 | 2.5     | ng    | 79950    | 4                     | 17.541 | 636103 | 20.0 |