

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
 Data File : BG054389.D  
 Acq On : 25 Jul 2022 21:33  
 Operator : CG/JU  
 Sample : N3858-01 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-A

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-BG071522.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG054389.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         | 5.575       | 434           | 440         | 449          | rBV      | 41194          | 74632         | 1.87%           | 0.822%        |
| 2         | 7.179       | 706           | 713         | 722          | rBV      | 47447          | 88475         | 2.22%           | 0.974%        |
| 3         | 7.996       | 845           | 852         | 859          | rBV      | 86502          | 151706        | 3.80%           | 1.671%        |
| 4         | 9.153       | 1042          | 1049        | 1059         | rVB2     | 27298          | 50571         | 1.27%           | 0.557%        |
| 5         | 10.223      | 1220          | 1231        | 1240         | rBB      | 2106774        | 3987998       | 100.00%         | 43.914%       |
| 6         | 10.799      | 1322          | 1329        | 1338         | rBV      | 106256         | 199238        | 5.00%           | 2.194%        |
| 7         | 13.249      | 1739          | 1746        | 1754         | rBB      | 90318          | 141312        | 3.54%           | 1.556%        |
| 8         | 14.624      | 1972          | 1980        | 1987         | rBV      | 191330         | 312155        | 7.83%           | 3.437%        |
| 9         | 16.116      | 2227          | 2234        | 2244         | rBV2     | 99772          | 153942        | 3.86%           | 1.695%        |
| 10        | 17.373      | 2441          | 2448        | 2451         | rBV      | 247710         | 393213        | 9.86%           | 4.330%        |
| 11        | 17.414      | 2451          | 2455        | 2461         | rVB      | 226018         | 342050        | 8.58%           | 3.767%        |
| 12        | 17.503      | 2465          | 2470        | 2476         | rVB      | 56317          | 85389         | 2.14%           | 0.940%        |
| 13        | 18.249      | 2590          | 2597        | 2601         | rBV2     | 39158          | 69128         | 1.73%           | 0.761%        |
| 14        | 18.296      | 2601          | 2605        | 2612         | rVB      | 48004          | 74514         | 1.87%           | 0.821%        |
| 15        | 18.448      | 2625          | 2631        | 2634         | rVV2     | 56195          | 107449        | 2.69%           | 1.183%        |
| 16        | 18.742      | 2677          | 2681        | 2685         | rBV      | 31378          | 40185         | 1.01%           | 0.442%        |
| 17        | 19.159      | 2748          | 2752        | 2759         | rBV3     | 21219          | 42867         | 1.07%           | 0.472%        |
| 18        | 19.424      | 2792          | 2797        | 2803         | rBV      | 335391         | 499961        | 12.54%          | 5.505%        |
| 19        | 19.759      | 2849          | 2854        | 2855         | rBV2     | 66362          | 94581         | 2.37%           | 1.041%        |
| 20        | 19.788      | 2855          | 2859        | 2866         | rVB      | 312707         | 469385        | 11.77%          | 5.169%        |
| 21        | 19.976      | 2886          | 2891        | 2896         | rBV      | 183943         | 255088        | 6.40%           | 2.809%        |
| 22        | 20.276      | 2940          | 2942        | 2946         | rVB      | 57809          | 69505         | 1.74%           | 0.765%        |
| 23        | 20.376      | 2956          | 2959        | 2964         | rBV      | 42825          | 58319         | 1.46%           | 0.642%        |
| 24        | 21.633      | 3166          | 3173        | 3178         | rBV3     | 332509         | 760005        | 19.06%          | 8.369%        |
| 25        | 21.680      | 3178          | 3181        | 3194         | rVB      | 143463         | 261514        | 6.56%           | 2.880%        |
| 26        | 24.841      | 3714          | 3719        | 3728         | rVB2     | 118453         | 298180        | 7.48%           | 3.283%        |

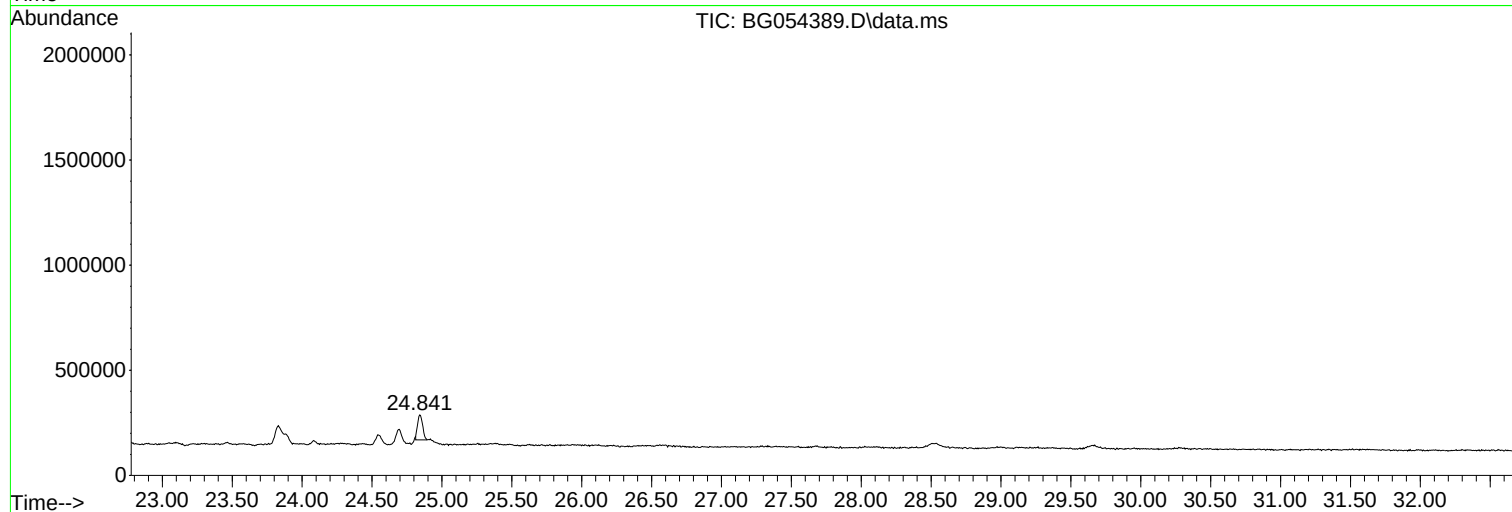
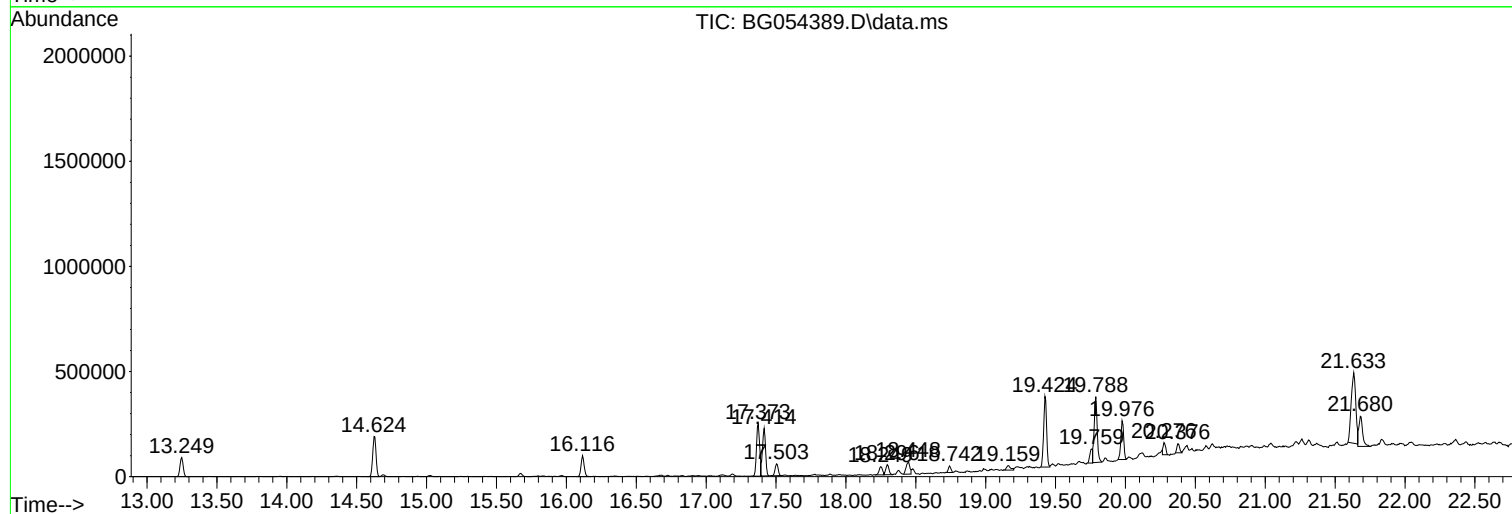
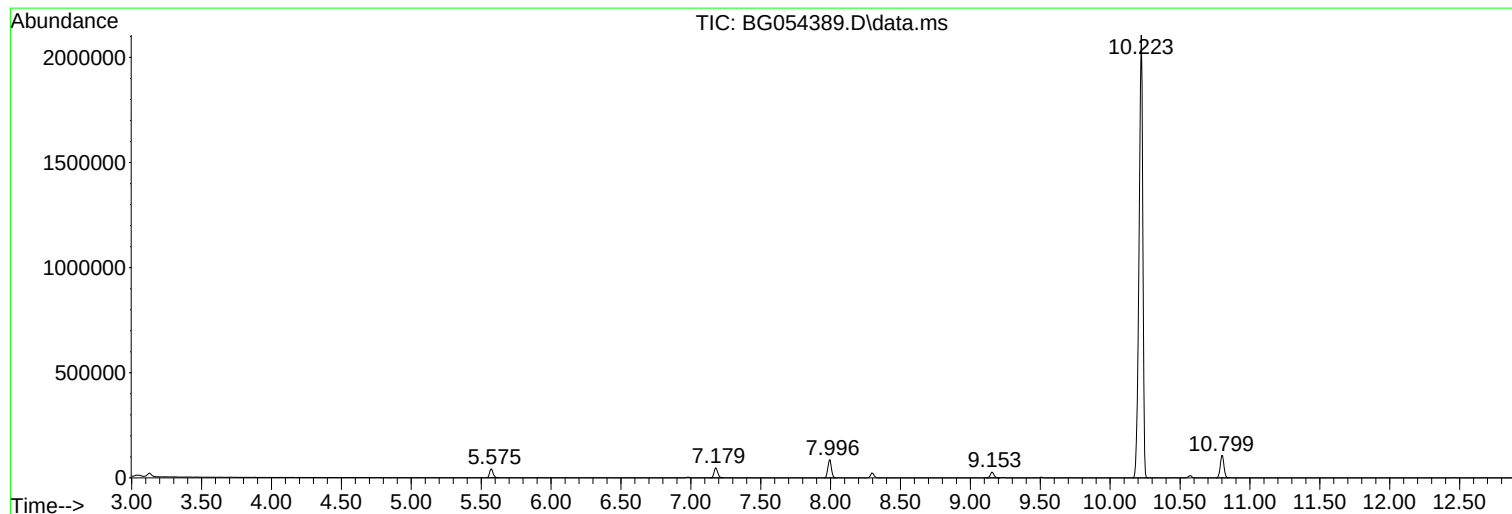
Sum of corrected areas: 9081362

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.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\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

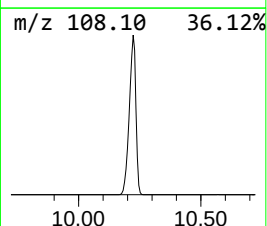
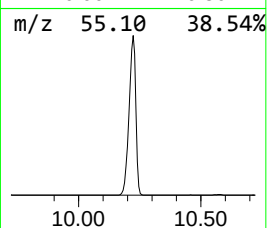
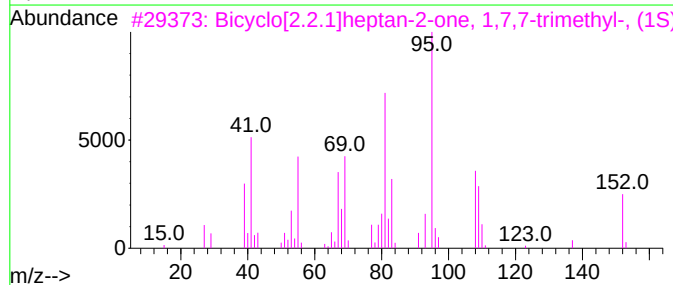
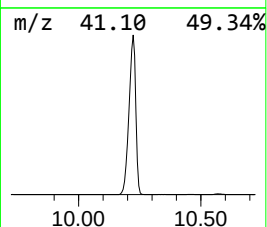
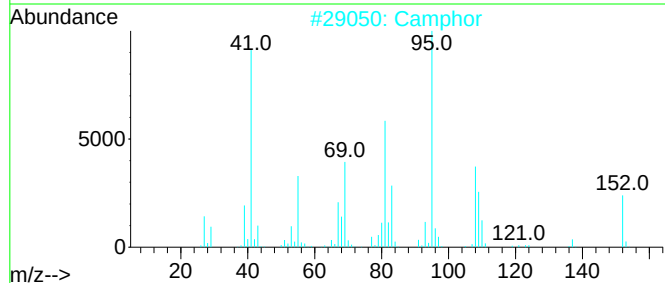
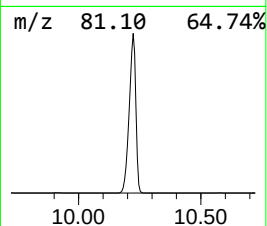
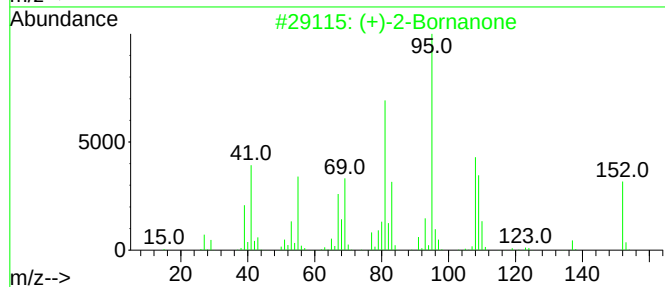
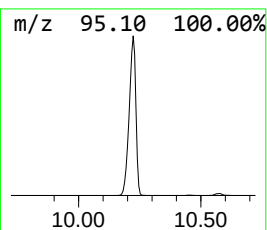
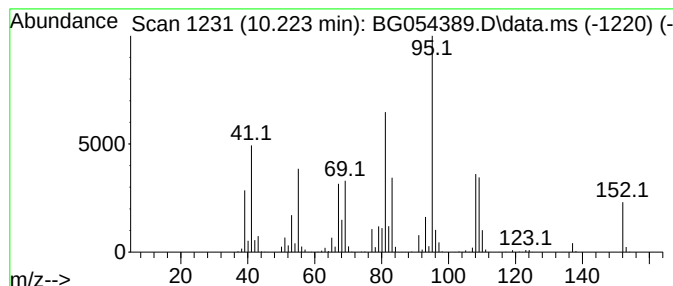
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 (+)-2-Bornanone Concentration Rank 1

| R.T.   | EstConc   | Area    | Relative to ISTD | R.T.   |
|--------|-----------|---------|------------------|--------|
| 10.223 | 400.32 ng | 3988000 | Naphthalene-d8   | 10.805 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | (+)-2-Bornanone                     | 152 | C10H16O | 000464-49-3 | 97   |
| 2    |      | Camphor                             | 152 | C10H16O | 000076-22-2 | 97   |
| 3    |      | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 96   |
| 4    |      | 5,7-Octadien-4-one, 2,6-dimethyl... | 152 | C10H16O | 006752-80-3 | 64   |
| 5    |      | 2-Butanone, 4-(5-methyl-2-furanyl)- | 152 | C9H12O2 | 013679-56-6 | 49   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

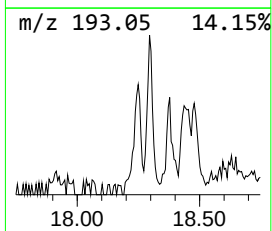
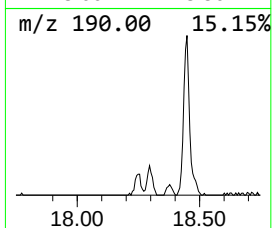
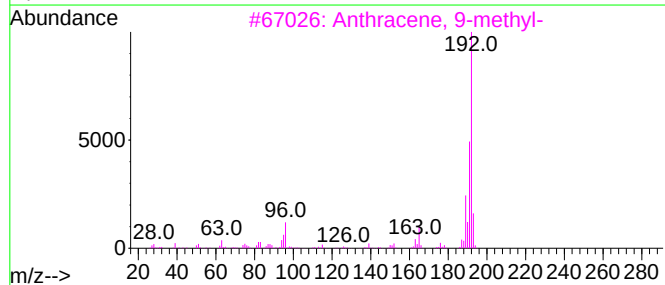
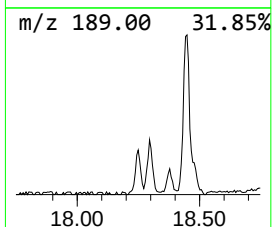
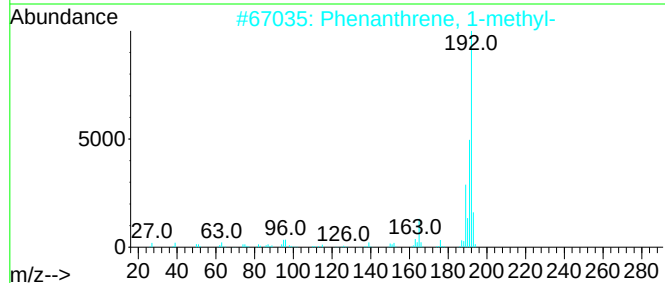
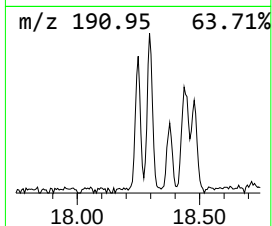
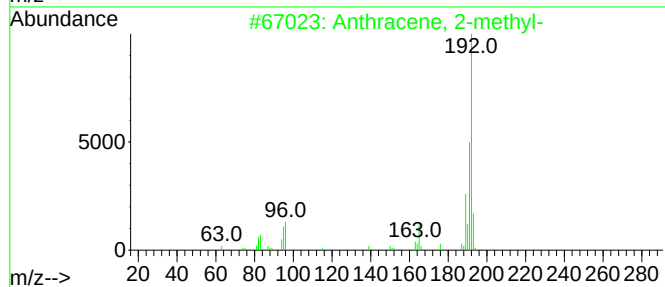
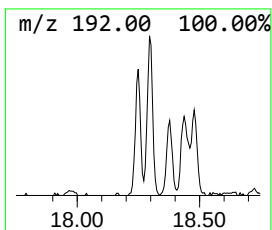
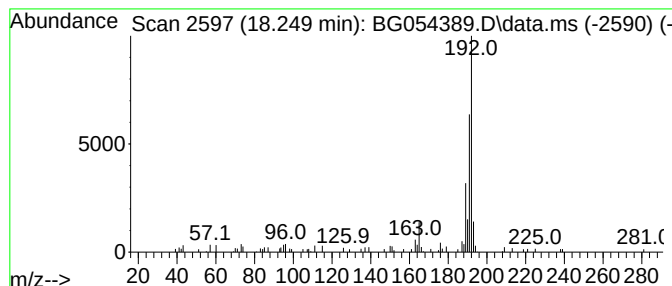
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Anthracene, 2-methyl- Concentration Rank 4

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 18.249 | 3.52 ng | 69128 | Phenanthrene-d10 | 17.373 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 95   |
| 2    |      | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 3    |      | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 94   |
| 4    |      | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 93   |
| 5    |      | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

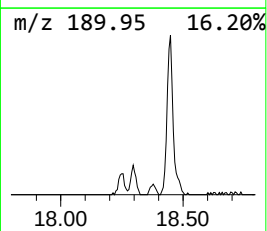
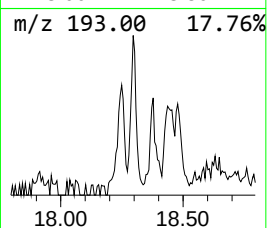
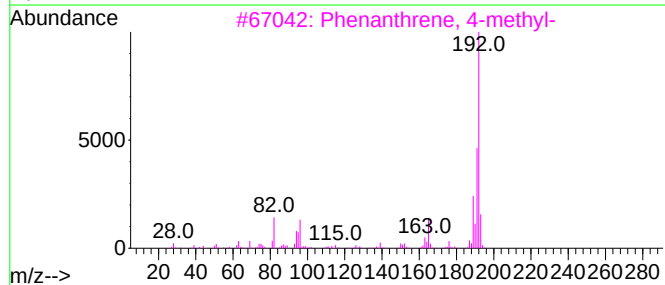
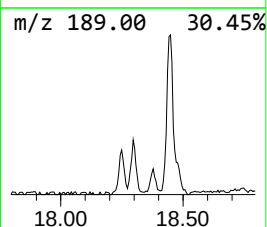
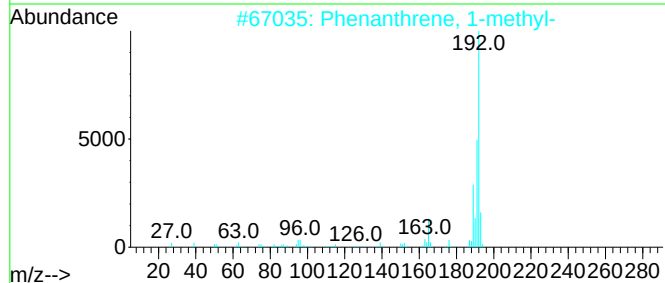
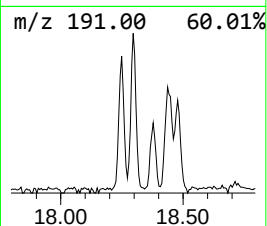
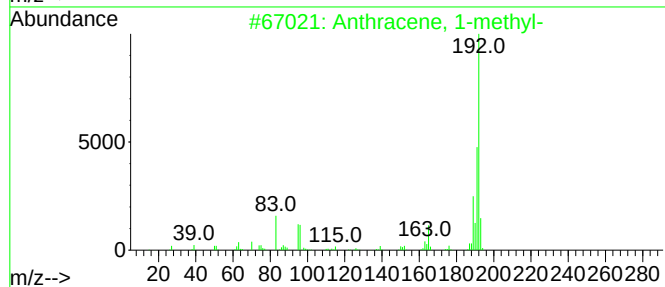
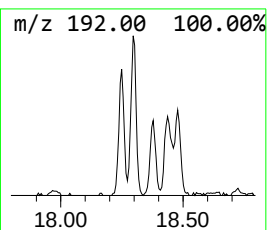
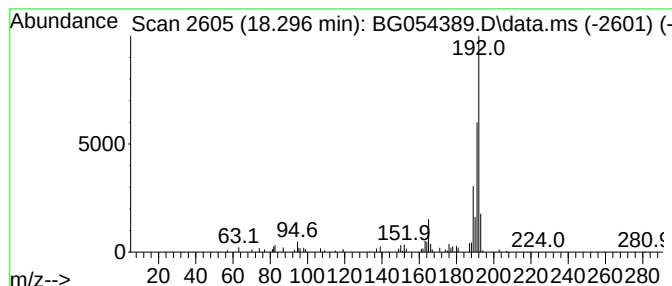
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Anthracene, 1-methyl- Concentration Rank 3

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 18.296 | 3.79 ng | 74514 | Phenanthrene-d10 | 17.373 |

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

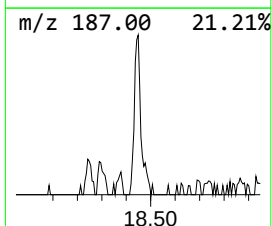
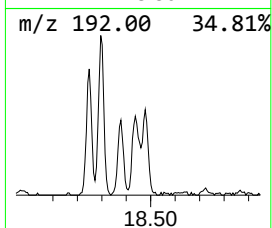
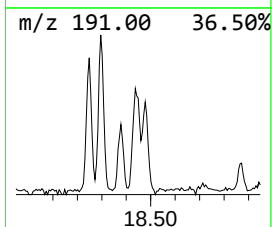
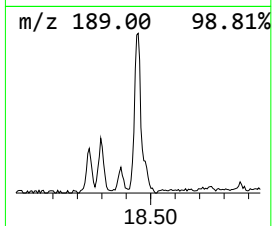
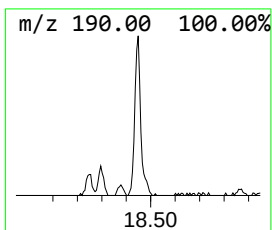
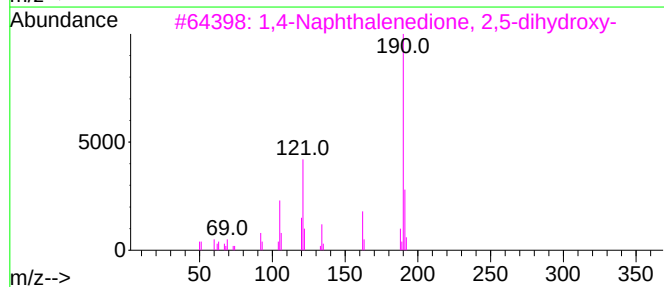
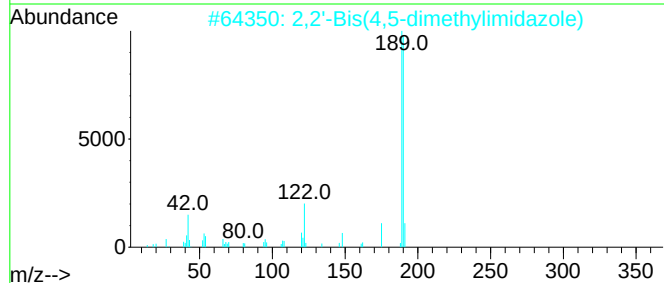
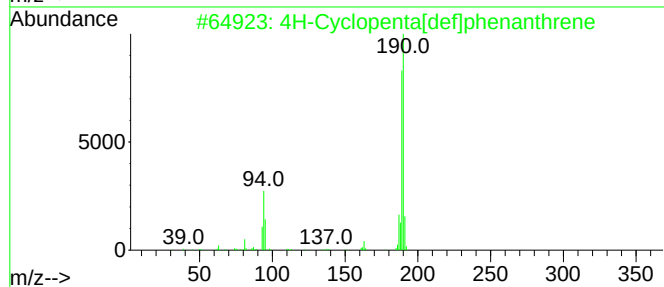
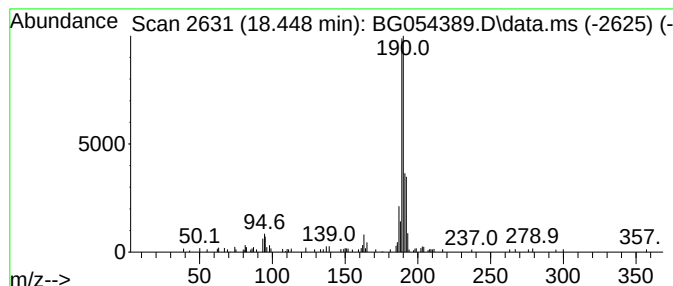
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

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

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.448 | 5.47 ng | 107449 | Phenanthrene-d10 | 17.373 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5 | 83   |
| 2    |    |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2 | 53   |
| 3    |    |   | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4    | 004923-55-1 | 32   |
| 4    |    |   | 2,4(1H,3H)-Pyrimidinedione, 5-br... | 190 | C4H3BrN2O2 | 000051-20-7 | 27   |
| 5    |    |   | 5,8-Quinoxalinediol, 2,3-dimethyl-  | 190 | C10H10N2O2 | 007698-00-2 | 27   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

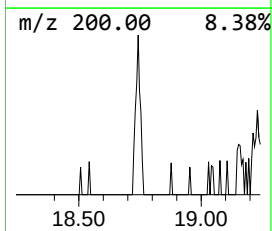
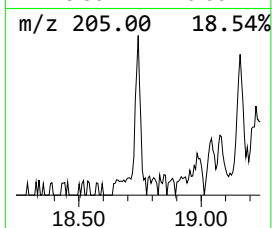
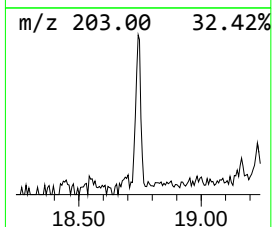
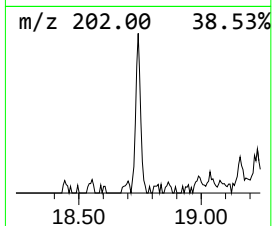
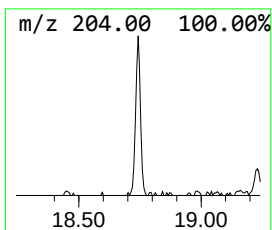
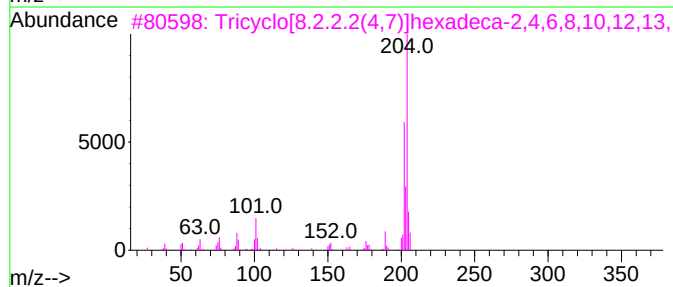
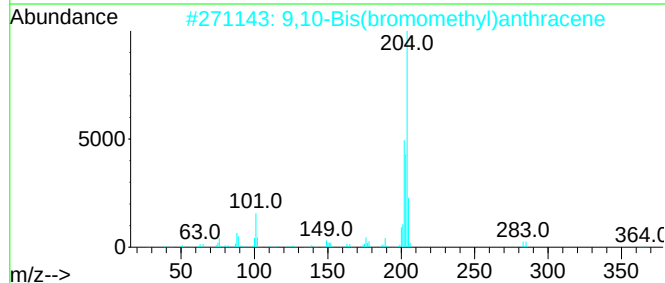
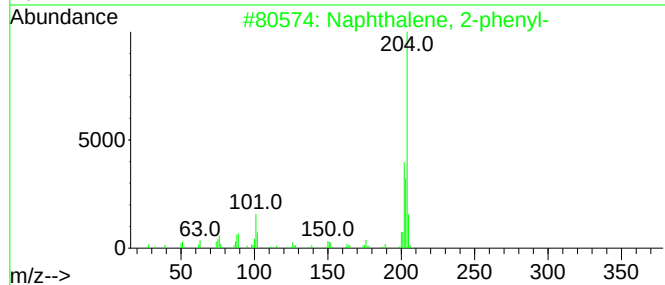
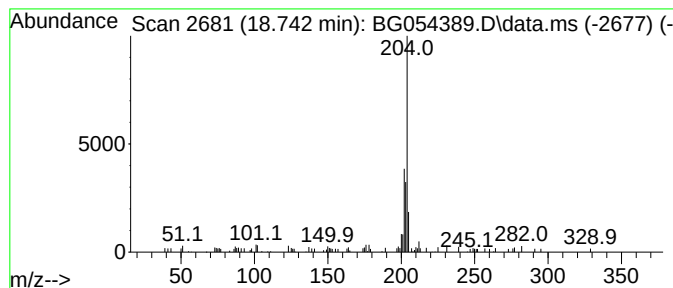
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Naphthalene, 2-phenyl- Concentration Rank 6

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 18.742 | 2.04 ng | 40185 | Phenanthrene-d10 | 17.373 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 64   |
| 2    |    |   | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 64   |
| 3    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 58   |
| 4    |    |   | [1,1'-Biphenyl]-2-ol, 5-chloro-     | 204 | C12H9ClO  | 000607-12-5 | 52   |
| 5    |    |   | Acephenanthrylene, 4,5-dihydro-     | 204 | C16H12    | 006232-48-0 | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

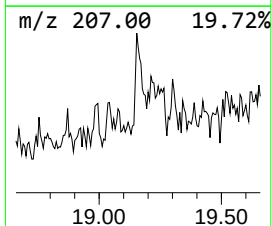
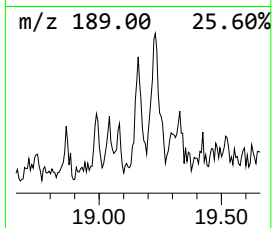
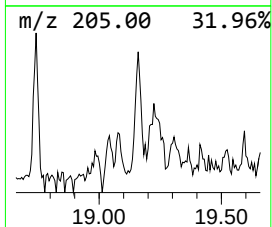
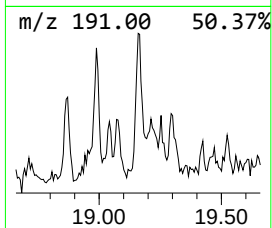
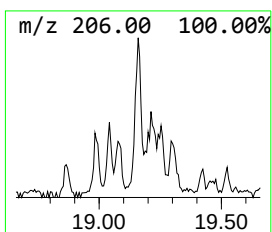
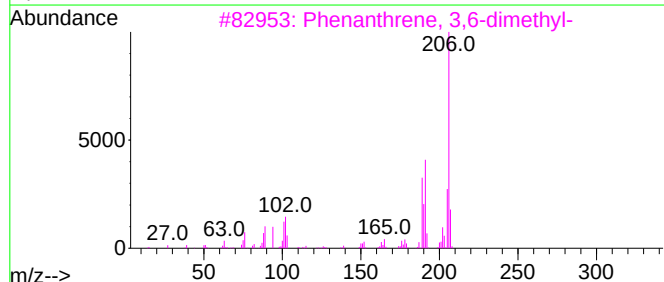
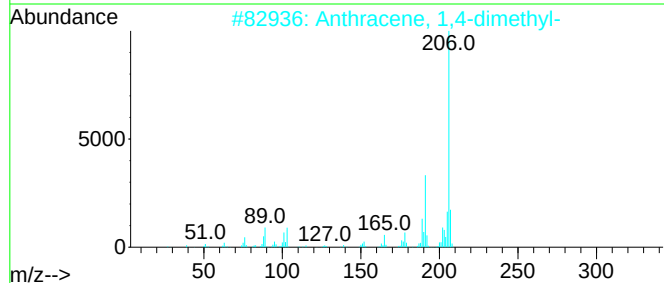
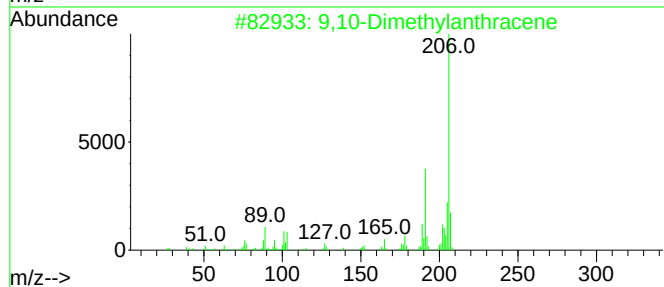
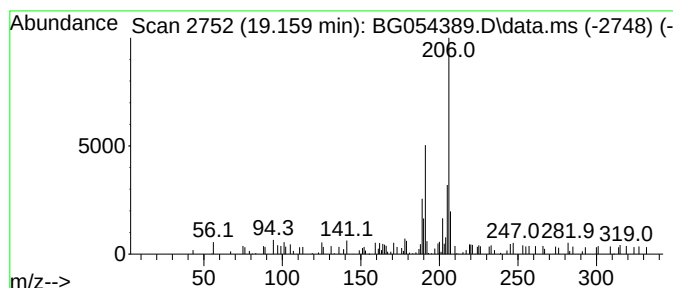
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*

Peak Number 6 9,10-Dimethylantracene Concentration Rank 5

| R.T.      | EstConc                     | Area  | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|-------|------------------|-------------|------|
| 19.159    | 2.18 ng                     | 42867 | Phenanthrene-d10 | 17.373      |      |
| Hit# of 5 | Tentative ID                | MW    | MolForm          | CAS#        | Qual |
| 1         | 9,10-Dimethylantracene      | 206   | C16H14           | 000781-43-1 | 74   |
| 2         | Anthracene, 1,4-dimethyl-   | 206   | C16H14           | 000781-92-0 | 72   |
| 3         | Phenanthrene, 3,6-dimethyl- | 206   | C16H14           | 001576-67-6 | 68   |
| 4         | Phenanthrene, 1,7-dimethyl- | 206   | C16H14           | 000483-87-4 | 68   |
| 5         | Phenanthrene, 2,5-dimethyl- | 206   | C16H14           | 003674-66-6 | 68   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072522\  
Data File : BG054389.D  
Acq On : 25 Jul 2022 21:33  
Operator : CG/JU  
Sample : N3858-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.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-Bornanone    | 10.223 | 400.3   | ng    | 3988000  | 2                     | 10.805 | 199238 | 20.0 |
| Anthracene, 2-m... | 18.249 | 3.5     | ng    | 69128    | 4                     | 17.373 | 393213 | 20.0 |
| Anthracene, 1-m... | 18.296 | 3.8     | ng    | 74514    | 4                     | 17.373 | 393213 | 20.0 |
| 4H-Cyclopenta[d... | 18.448 | 5.5     | ng    | 107449   | 4                     | 17.373 | 393213 | 20.0 |
| Naphthalene, 2-... | 18.742 | 2.0     | ng    | 40185    | 4                     | 17.373 | 393213 | 20.0 |
| 9,10-Dimethylan... | 19.159 | 2.2     | ng    | 42867    | 4                     | 17.373 | 393213 | 20.0 |