

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
 Data File : BG040426.D  
 Acq On : 10 Apr 2019 22:22  
 Operator : JU/SJ  
 Sample : K2311-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 0236-COMP-CS-1-ELTRT

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BG032719.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| 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         | 3.193       | 14            | 18          | 24           | rVB      | 38651          | 68596         | 1.79%           | 0.300%        |
| 2         | 5.602       | 422           | 428         | 445          | rBV      | 591668         | 965506        | 25.26%          | 4.228%        |
| 3         | 7.200       | 693           | 700         | 715          | rBV      | 411777         | 765328        | 20.02%          | 3.351%        |
| 4         | 7.576       | 756           | 764         | 771          | rBV      | 962192         | 1651770       | 43.21%          | 7.233%        |
| 5         | 8.046       | 837           | 844         | 854          | rBV      | 228546         | 392274        | 10.26%          | 1.718%        |
| 6         | 8.369       | 891           | 899         | 907          | rBV      | 731980         | 1284491       | 33.60%          | 5.625%        |
| 7         | 9.221       | 1036          | 1044        | 1060         | rBV      | 667186         | 1189447       | 31.11%          | 5.209%        |
| 8         | 10.861      | 1313          | 1323        | 1336         | rVB      | 277048         | 543315        | 14.21%          | 2.379%        |
| 9         | 12.729      | 1633          | 1641        | 1648         | rBV      | 48261          | 92713         | 2.43%           | 0.406%        |
| 10        | 13.299      | 1730          | 1738        | 1748         | rBV      | 1517134        | 2408001       | 62.99%          | 10.545%       |
| 11        | 13.834      | 1823          | 1829        | 1830         | rBV2     | 29765          | 39930         | 1.04%           | 0.175%        |
| 12        | 13.992      | 1850          | 1856        | 1862         | rBV2     | 74330          | 148239        | 3.88%           | 0.649%        |
| 13        | 14.051      | 1862          | 1866        | 1874         | rVB      | 29399          | 51596         | 1.35%           | 0.226%        |
| 14        | 14.121      | 1874          | 1878        | 1883         | rBV      | 69237          | 95108         | 2.49%           | 0.416%        |
| 15        | 14.233      | 1892          | 1897        | 1900         | rBV      | 30246          | 48149         | 1.26%           | 0.211%        |
| 16        | 14.398      | 1921          | 1925        | 1933         | rVB      | 26409          | 43092         | 1.13%           | 0.189%        |
| 17        | 14.674      | 1966          | 1972        | 1980         | rVV2     | 417823         | 721119        | 18.86%          | 3.158%        |
| 18        | 14.744      | 1980          | 1984        | 1989         | rVB4     | 22470          | 43115         | 1.13%           | 0.189%        |
| 19        | 15.062      | 2028          | 2038        | 2045         | rBV5     | 41768          | 94470         | 2.47%           | 0.414%        |
| 20        | 15.138      | 2047          | 2051        | 2057         | rVV2     | 28474          | 44540         | 1.17%           | 0.195%        |
| 21        | 15.279      | 2071          | 2075        | 2081         | rBV      | 26285          | 44036         | 1.15%           | 0.193%        |
| 22        | 15.708      | 2144          | 2148        | 2154         | rBV5     | 23687          | 43816         | 1.15%           | 0.192%        |
| 23        | 15.849      | 2168          | 2172        | 2176         | rBV5     | 23846          | 41665         | 1.09%           | 0.182%        |
| 24        | 15.943      | 2182          | 2188        | 2193         | rBV      | 70654          | 110632        | 2.89%           | 0.484%        |
| 25        | 16.166      | 2219          | 2226        | 2240         | rBV      | 1415116        | 2190135       | 57.29%          | 9.591%        |
| 26        | 16.372      | 2258          | 2261        | 2268         | rVB6     | 23151          | 39522         | 1.03%           | 0.173%        |
| 27        | 16.777      | 2326          | 2330        | 2334         | rBV5     | 20644          | 38431         | 1.01%           | 0.168%        |
| 28        | 17.423      | 2433          | 2440        | 2445         | rBV2     | 602106         | 928833        | 24.30%          | 4.067%        |
| 29        | 18.281      | 2581          | 2586        | 2596         | rBV2     | 176256         | 317391        | 8.30%           | 1.390%        |
| 30        | 19.544      | 2798          | 2801        | 2810         | rBV2     | 58779          | 106761        | 2.79%           | 0.468%        |
| 31        | 19.838      | 2848          | 2851        | 2857         | rVB2     | 26557          | 38460         | 1.01%           | 0.168%        |
| 32        | 20.020      | 2877          | 2882        | 2889         | rBV      | 2816899        | 3822931       | 100.00%         | 16.741%       |
| 33        | 21.295      | 3095          | 3099        | 3111         | rVB2     | 122103         | 221771        | 5.80%           | 0.971%        |
| 34        | 21.695      | 3160          | 3167        | 3175         | rVB2     | 625694         | 1052094       | 27.52%          | 4.607%        |

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Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

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-BG032719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 21.836 | 3187 | 3191 | 3198 | rVB  | 91923  | 130735  | 3.42%  | 0.572% |
| 36 | 22.441 | 3289 | 3294 | 3300 | rBV  | 152472 | 235089  | 6.15%  | 1.029% |
| 37 | 23.134 | 3407 | 3412 | 3420 | rVB  | 192212 | 362655  | 9.49%  | 1.588% |
| 38 | 23.939 | 3543 | 3549 | 3558 | rBV  | 185185 | 414972  | 10.85% | 1.817% |
| 39 | 24.903 | 3705 | 3713 | 3718 | rBV2 | 155162 | 415734  | 10.87% | 1.821% |
| 40 | 24.968 | 3718 | 3724 | 3736 | rVB2 | 347162 | 1009975 | 26.42% | 4.423% |
| 41 | 26.037 | 3895 | 3906 | 3918 | rBV2 | 122518 | 368920  | 9.65%  | 1.616% |
| 42 | 27.400 | 4129 | 4138 | 4148 | rVB2 | 63617  | 210507  | 5.51%  | 0.922% |

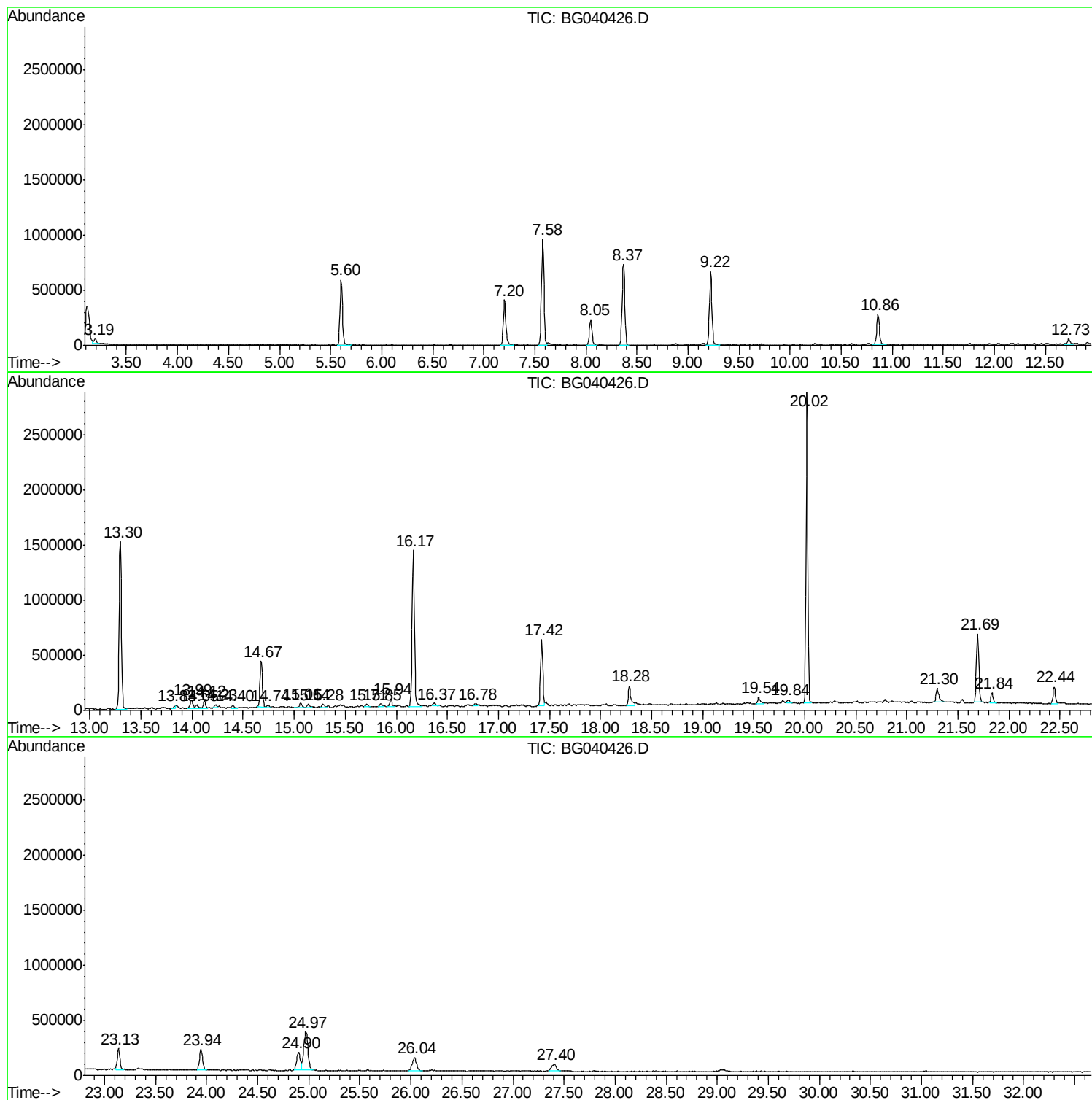
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Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

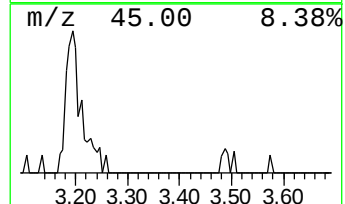
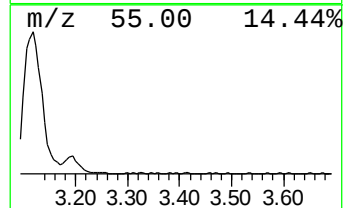
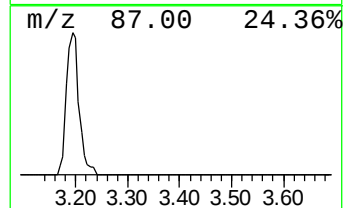
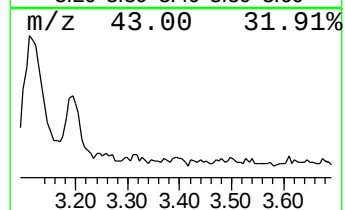
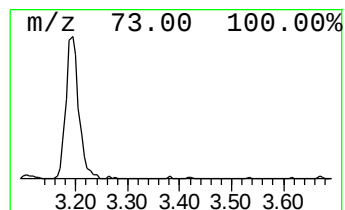
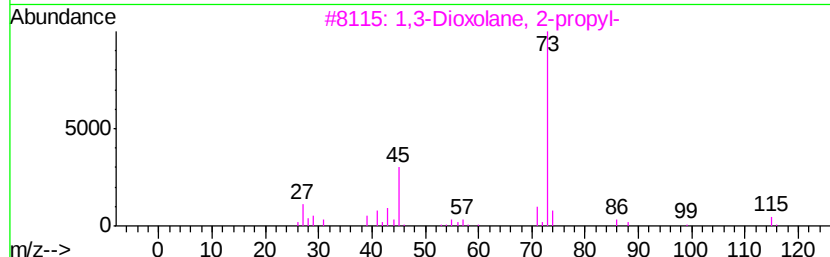
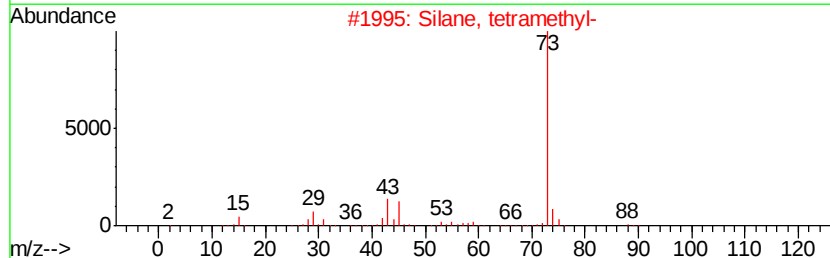
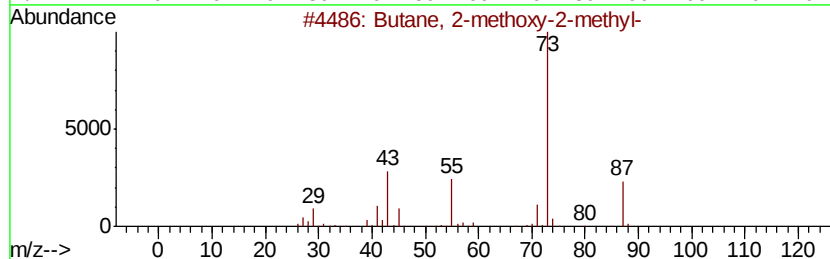
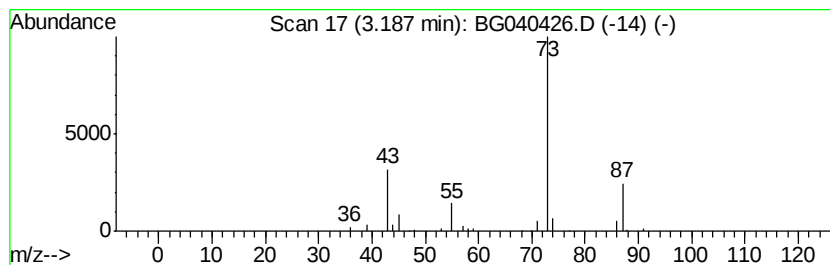
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 12

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 3.19 | 3.50 ng | 68596 | 1,4-Dichlorobenzene-d4 | 8.05 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 50   |
| 2    |    |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 38   |
| 3    |    |   | 1,3-Dioxolane, 2-propyl-    | 116 | C6H12O2 | 003390-13-4 | 9    |
| 4    |    |   | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 9    |
| 5    |    |   | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 7    |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

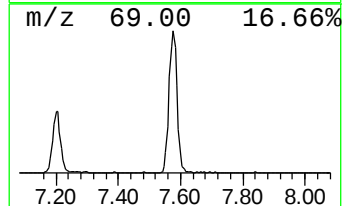
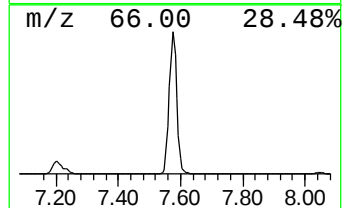
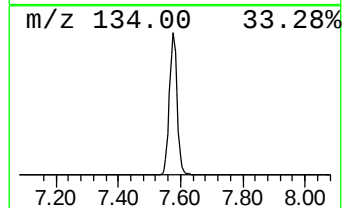
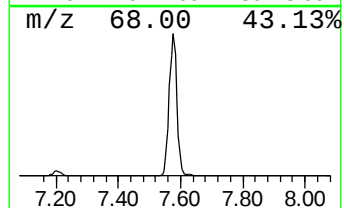
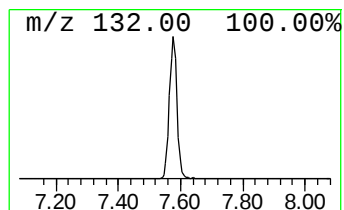
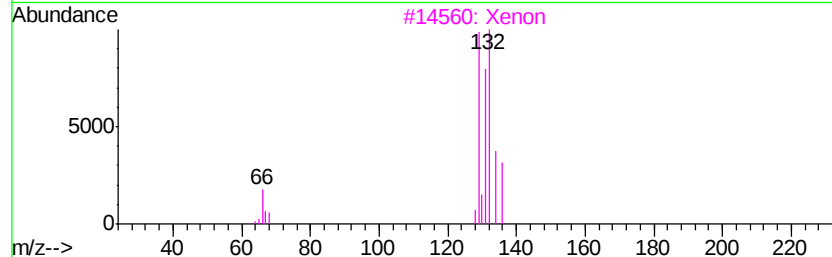
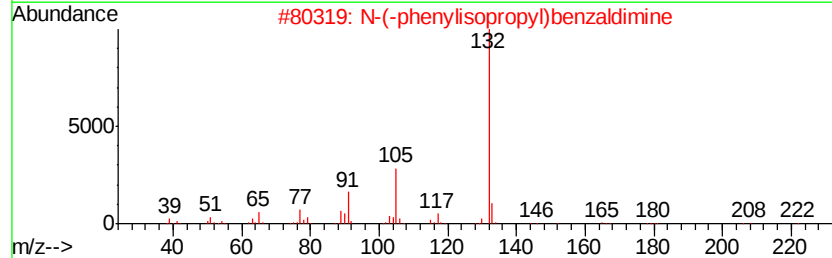
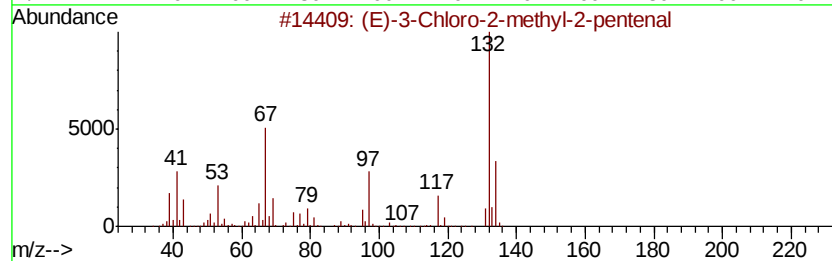
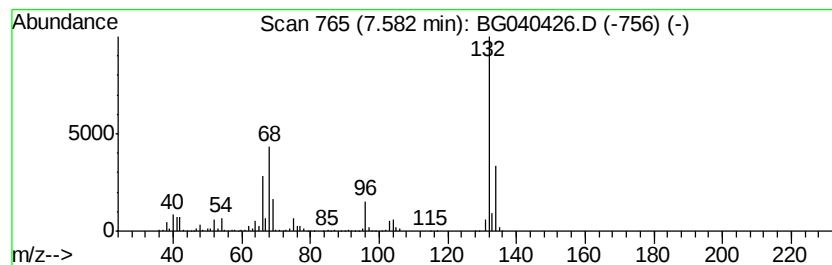
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown7.58 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.58 | 84.22 ng | 1651770 | 1,4-Dichlorobenzene-d4 | 8.05 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO | 031357-76-3  | 16   |
| 2    |    | N-(-phenylisopropyl)benzalimine     | 223 | C16H17N | 1000379-01-3 | 10   |
| 3    |    | Xenon                               | 132 | Xe      | 007440-63-3  | 9    |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12  | 028749-81-7  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2  | 022291-85-6  | 9    |



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ALS Vial : 15 Sample Multiplier: 1

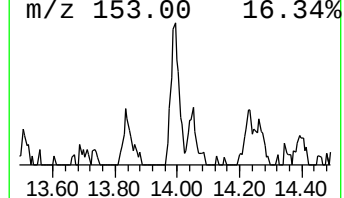
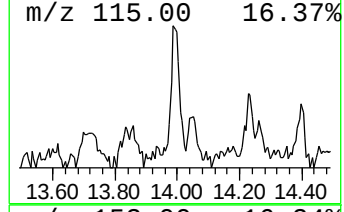
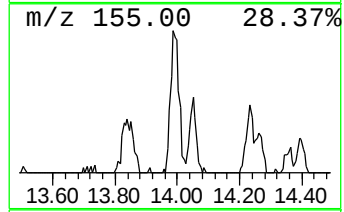
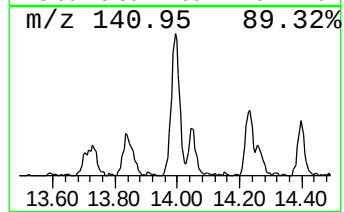
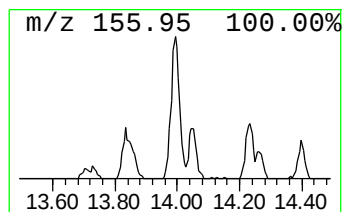
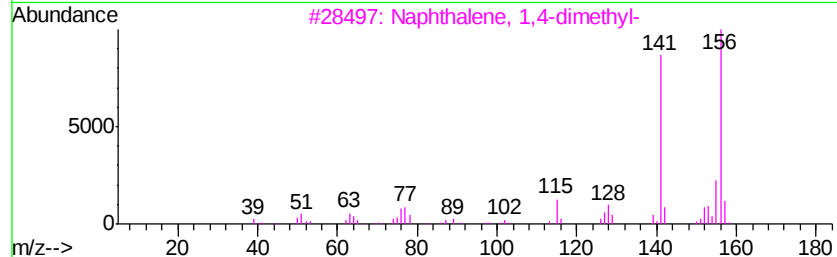
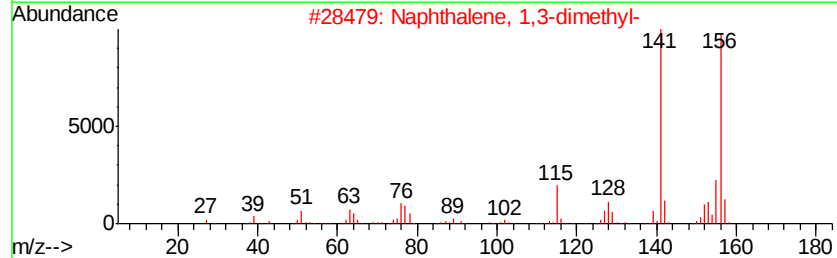
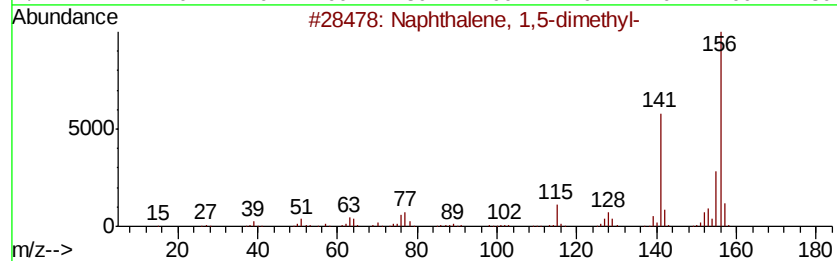
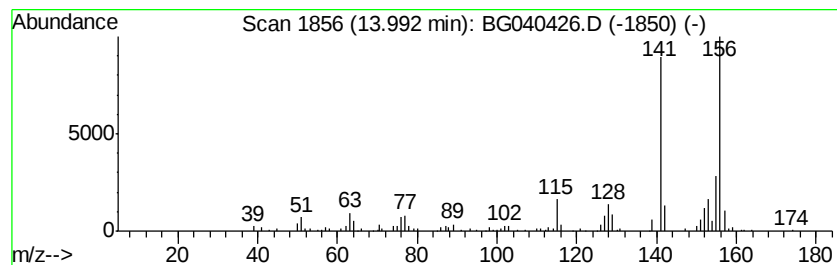
Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Naphthalene, 1,5-dimethyl- Concentration Rank 11

| R.T.      | EstConc                    | Area   | Relative to ISTD |             | R.T.  |
|-----------|----------------------------|--------|------------------|-------------|-------|
| 13.99     | 4.11 ng                    | 148239 | Acenaphthene-d10 |             | 14.67 |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual  |
| 1         | Naphthalene, 1,5-dimethyl- | 156    | C12H12           | 000571-61-9 | 97    |
| 2         | Naphthalene, 1,3-dimethyl- | 156    | C12H12           | 000575-41-7 | 96    |
| 3         | Naphthalene, 1,4-dimethyl- | 156    | C12H12           | 000571-58-4 | 96    |
| 4         | Naphthalene, 1,6-dimethyl- | 156    | C12H12           | 000575-43-9 | 96    |
| 5         | Naphthalene, 2,3-dimethyl- | 156    | C12H12           | 000581-40-8 | 95    |



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Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

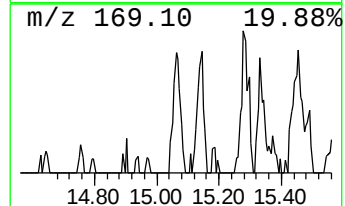
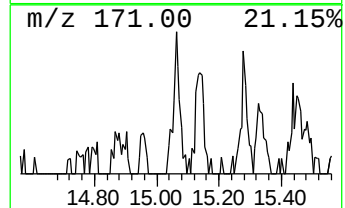
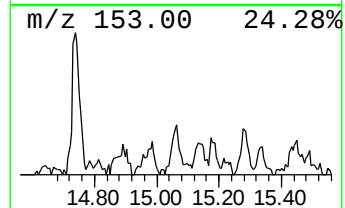
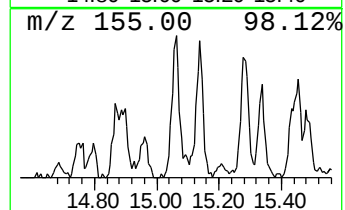
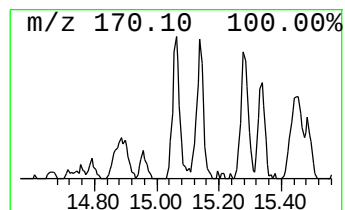
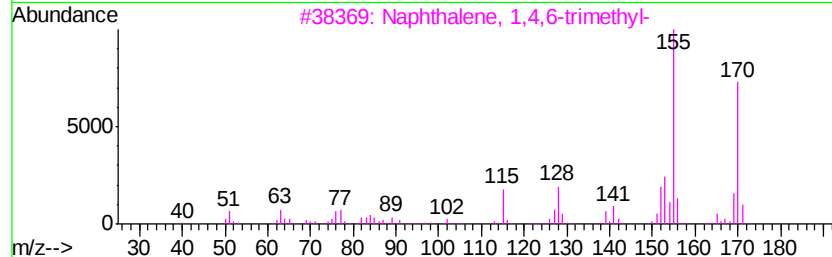
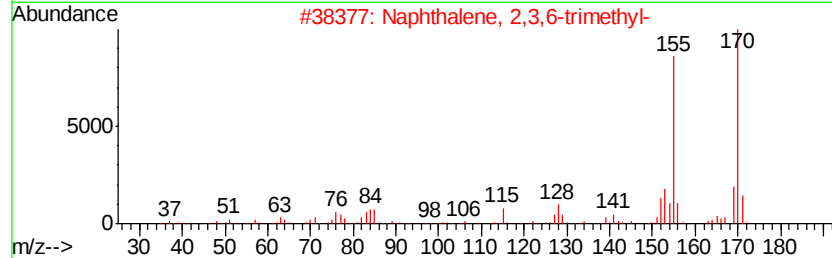
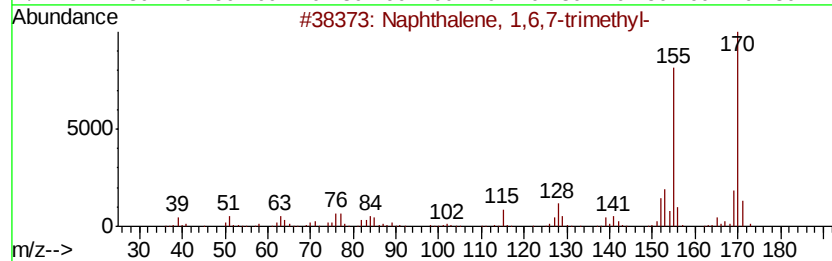
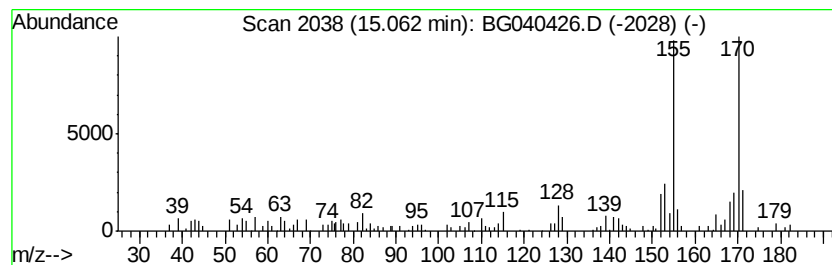
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Naphthalene, 1,6,7-trimethyl- Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.06 | 2.62 ng | 94470 | Acenaphthene-d10 | 14.67 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 94   |
| 2    |    | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 93   |
| 3    |    | Naphthalene, 1,4,6-trimethyl-       | 170 | C13H14  | 002131-42-2  | 93   |
| 4    |    | Naphthalene, 1,4,5-trimethyl-       | 170 | C13H14  | 002131-41-1  | 90   |
| 5    |    | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

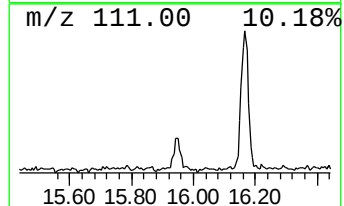
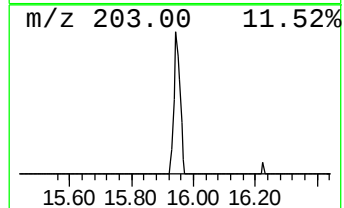
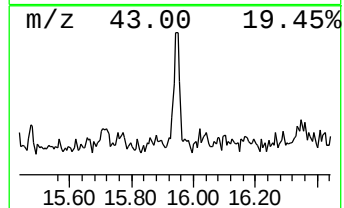
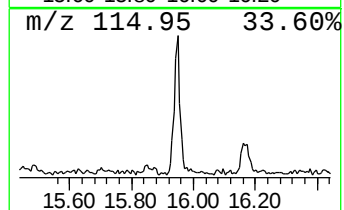
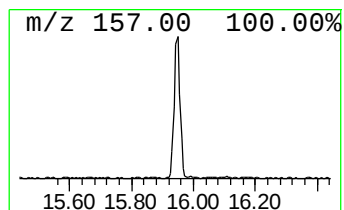
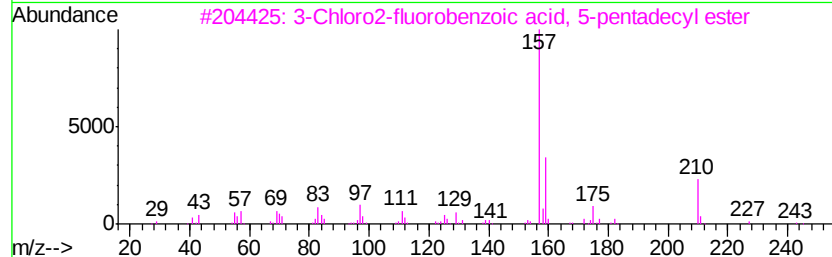
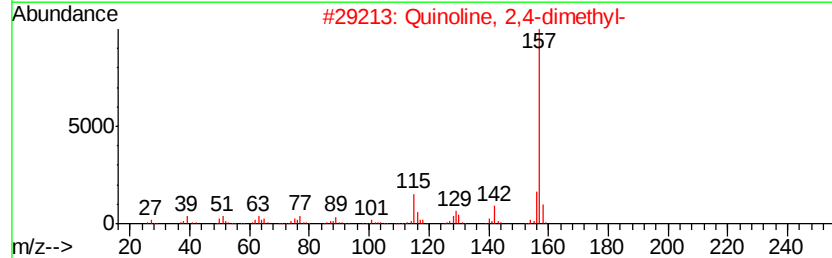
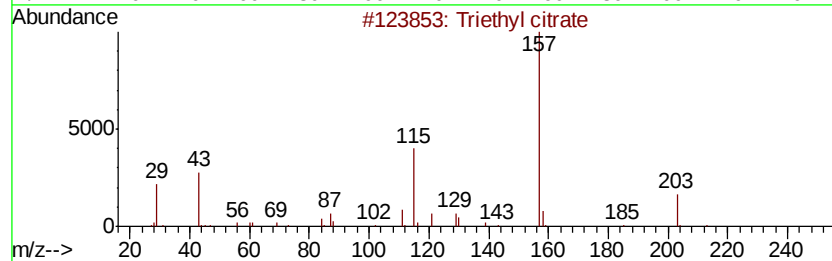
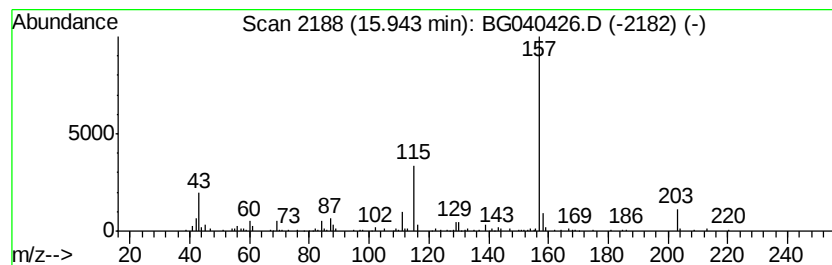
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Triethyl citrate Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.94 | 3.07 ng | 110632 | Acenaphthene-d10 | 14.67 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Triethyl citrate                    | 276 | C12H20O7    | 000077-93-0  | 90   |
| 2    |    | Quinoline, 2,4-dimethyl-            | 157 | C11H11N     | 001198-37-4  | 42   |
| 3    |    | 3-Chloro2-fluorobenzoic acid, 5-... | 384 | C22H34ClF02 | 1000338-65-2 | 42   |
| 4    |    | 3-Chloro2-fluorobenzoic acid, 3-... | 370 | C21H32ClF02 | 1000338-64-6 | 40   |
| 5    |    | Hexanedioic acid, 3-ethyl-, bis(... | 286 | C16H30O4    | 057983-54-7  | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

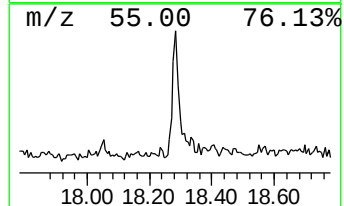
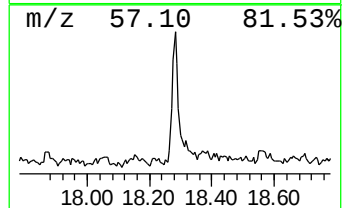
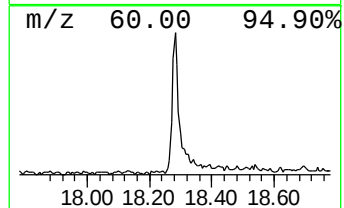
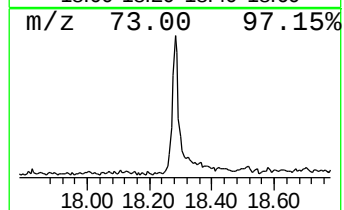
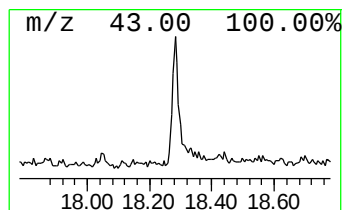
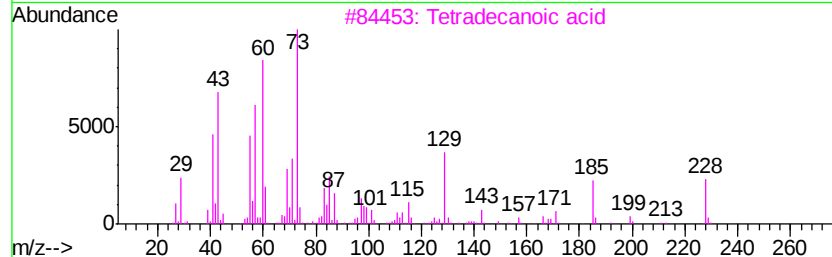
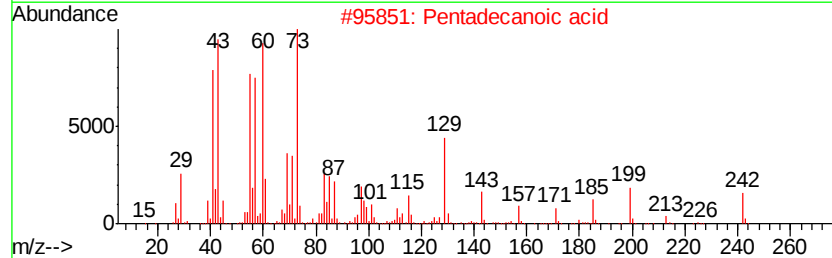
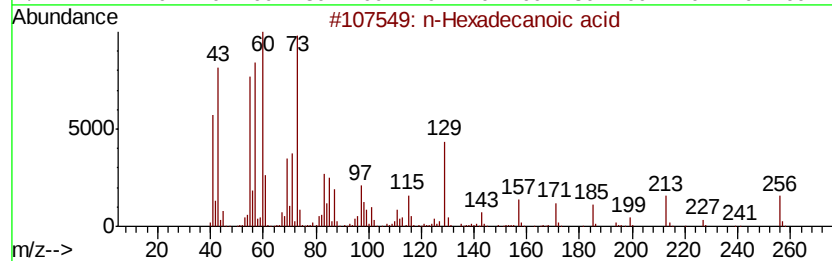
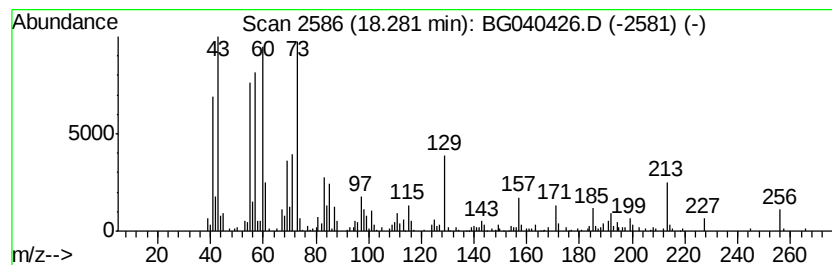
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ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 n-Hexadecanoic acid Concentration Rank 7

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 18.28     | 6.83 ng             | 317391 | Phenanthrene-d10 | 17.42       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 97   |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 81   |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 72   |
| 4         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 70   |
| 5         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
 Data File : BG040426.D  
 Acq On : 10 Apr 2019 22:22  
 Operator : JU/SJ  
 Sample : K2311-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

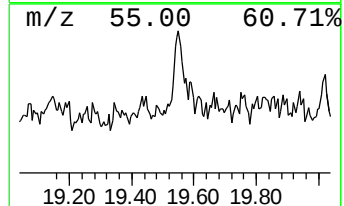
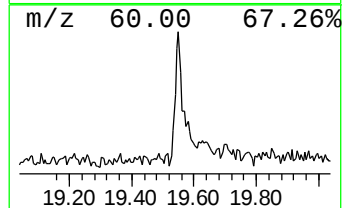
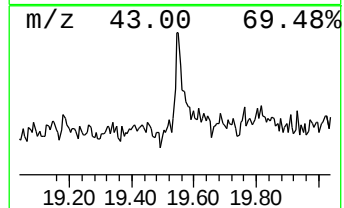
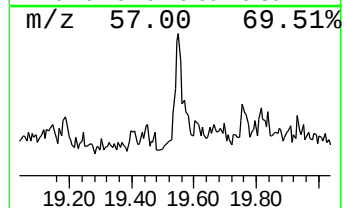
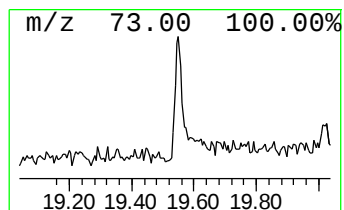
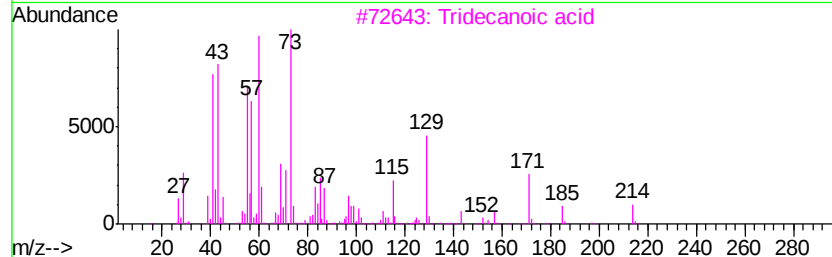
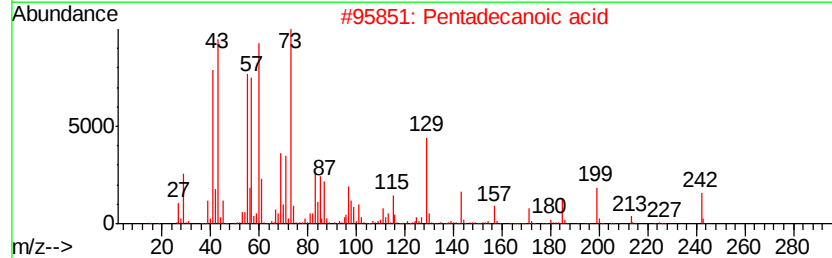
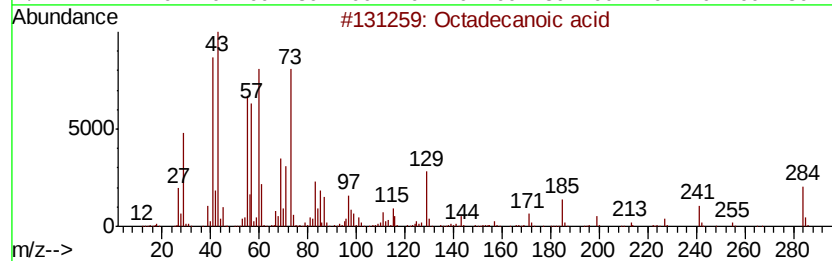
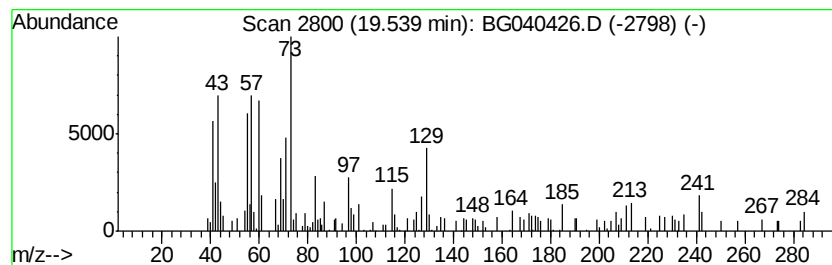
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 TIC Integration Parameters: LSCINT.P

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 Peak Number 8 Octadecanoic acid Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.54 | 2.30 ng | 106761 | Phenanthrene-d10 | 17.42 |

| Hit# of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|---------|---|--------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 95   |
| 2       |   | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 72   |
| 3       |   | Tridecanoic acid   | 214 | C13H26O2 | 000638-53-9 | 68   |
| 4       |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64   |
| 5       |   | Dodecanoic acid    | 200 | C12H24O2 | 000143-07-7 | 59   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

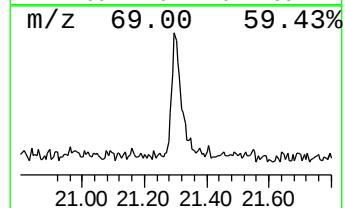
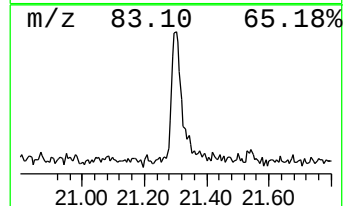
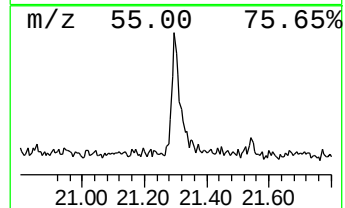
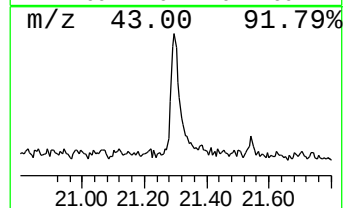
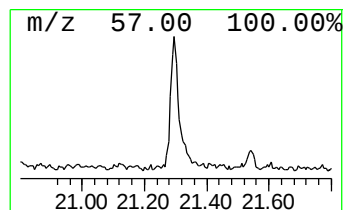
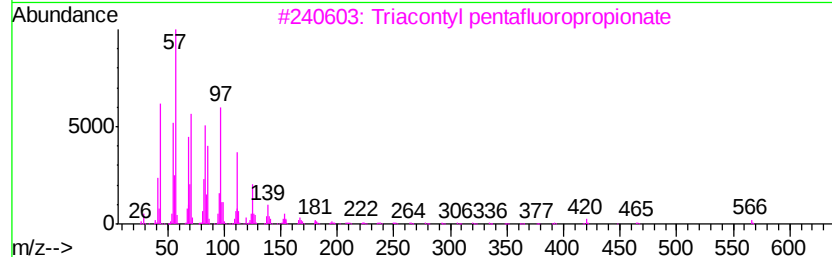
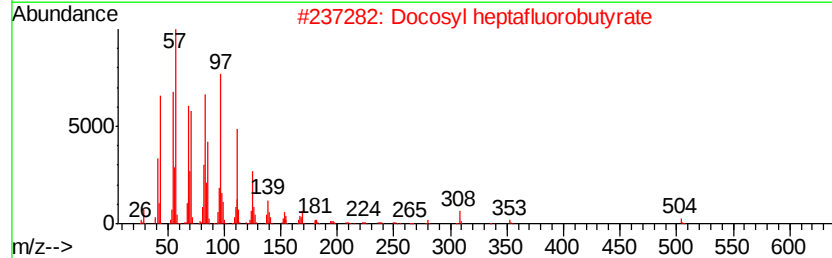
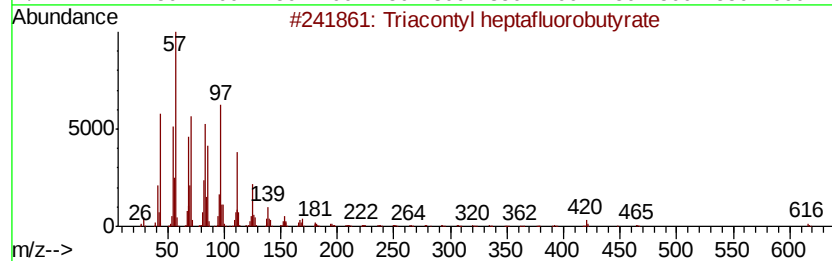
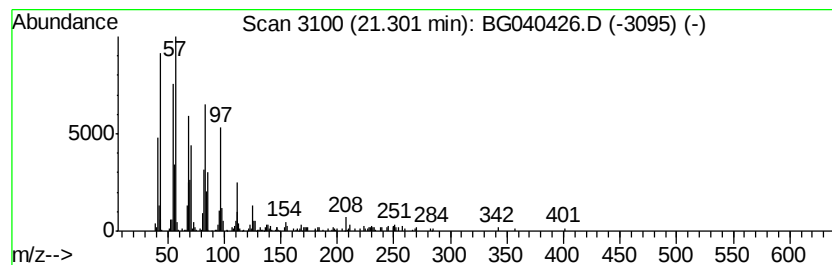
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BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Triacontyl heptafluorobutyrate Concentration Rank 9

| R.T.      | EstConc                            | Area   | Relative to ISTD | R.T.         |      |
|-----------|------------------------------------|--------|------------------|--------------|------|
| 21.30     | 4.22 ng                            | 221771 | Chrysene-d12     | 21.69        |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#         | Qual |
| 1         | Triacontyl heptafluorobutyrate     | 634    | C34H61F7O2       | 1000351-83-2 | 91   |
| 2         | Docosyl heptafluorobutyrate        | 522    | C26H45F7O2       | 1000351-83-1 | 91   |
| 3         | Triacontyl pentafluoropropionate   | 584    | C33H61F5O2       | 1000351-80-0 | 91   |
| 4         | Tetratriacontyl trifluoroacetate   | 591    | C36H69F3O2       | 1000351-75-3 | 91   |
| 5         | Dotriacontyl pentafluoropropionate | 612    | C35H65F5O2       | 1000351-81-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
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Operator : JU/SJ  
Sample : K2311-03  
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ALS Vial : 15 Sample Multiplier: 1

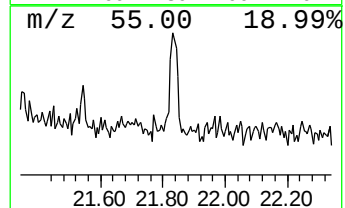
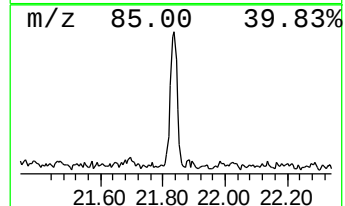
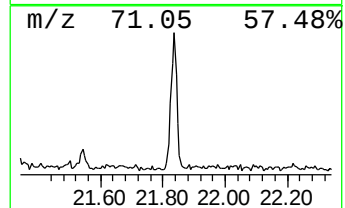
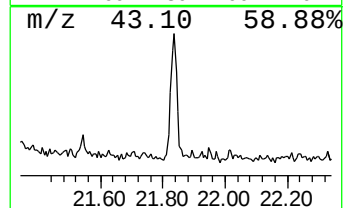
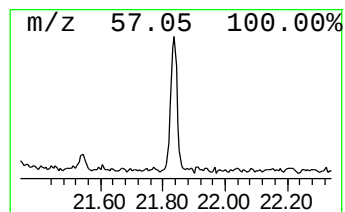
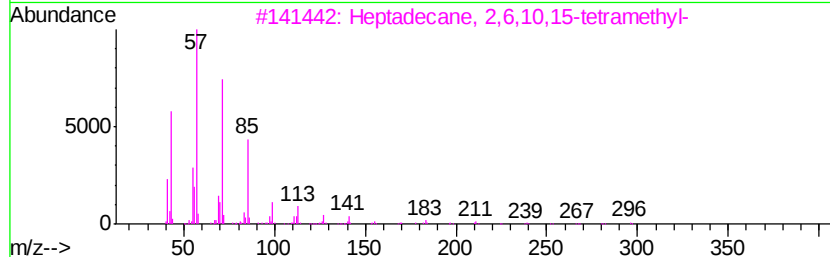
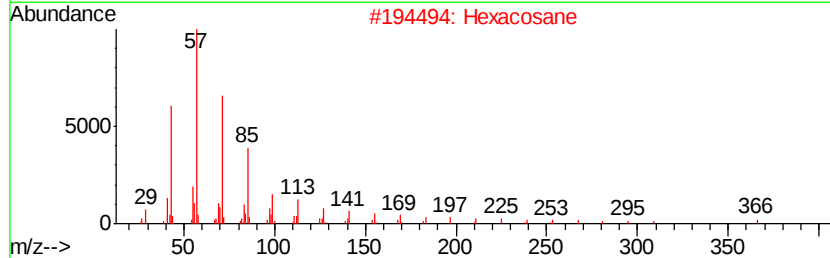
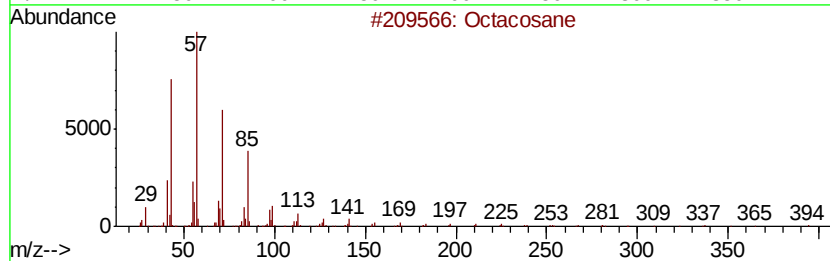
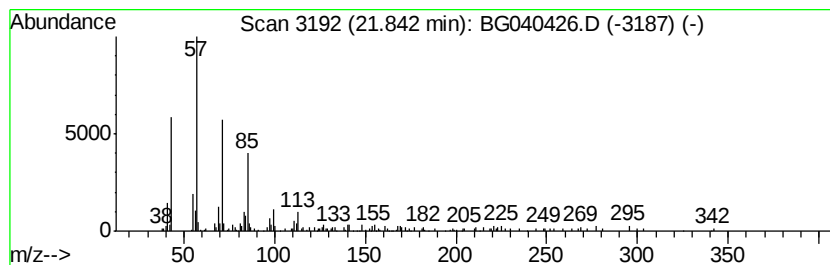
Instrument :  
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ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Octacosane Concentration Rank 15

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 21.84   | 2.49 ng                             | 130735       | Chrysene-d12     | 21.69     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Octacosane                          | 394 C28H58   | 000630-02-4      | 90        |
| 2       | Hexacosane                          | 366 C26H54   | 000630-01-3      | 87        |
| 3       | Heptadecane, 2,6,10,15-tetramethyl- | 296 C21H44   | 054833-48-6      | 83        |
| 4       | Eicosane                            | 282 C20H42   | 000112-95-8      | 83        |
| 5       | Tetracosane                         | 338 C24H50   | 000646-31-1      | 83        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

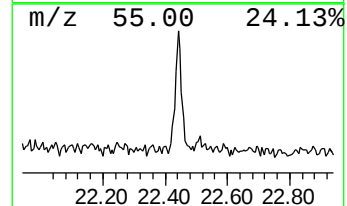
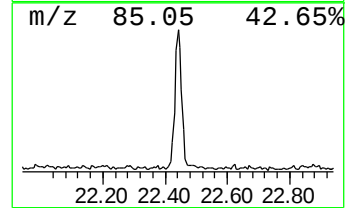
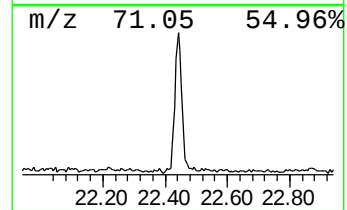
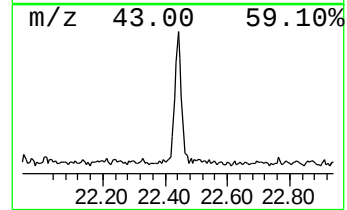
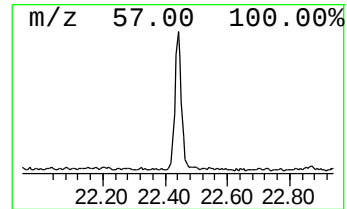
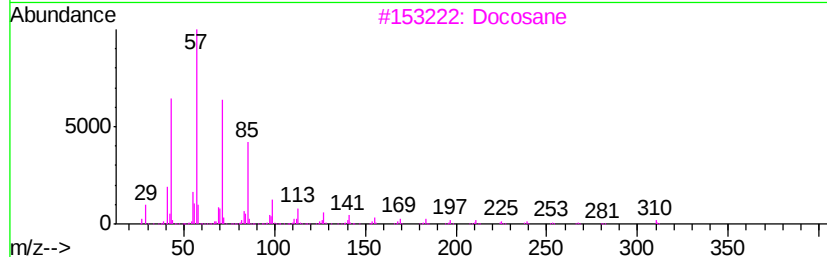
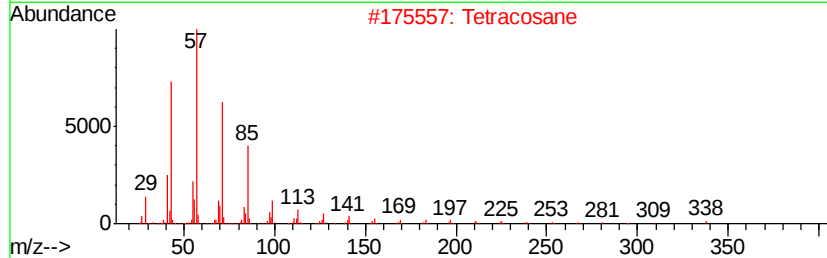
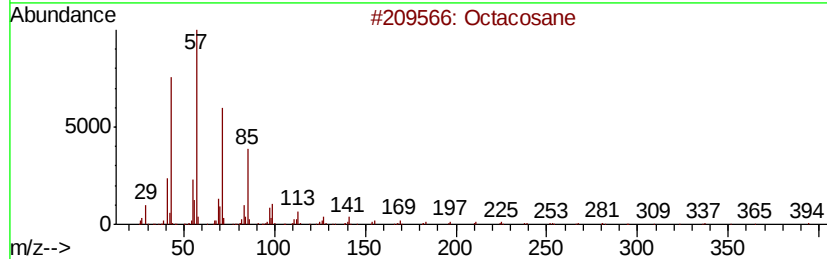
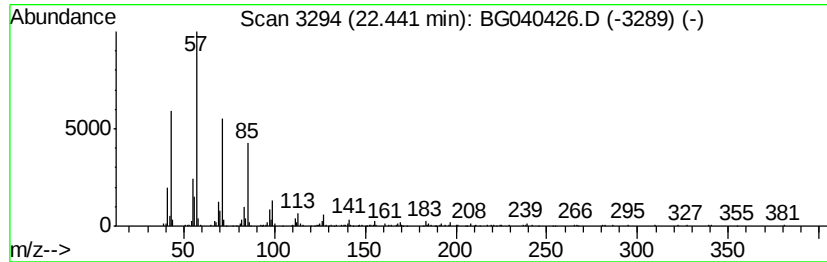
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Tetracosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.44 | 4.47 ng | 235089 | Chrysene-d12     | 21.69 |

| Hit# | of | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|----|----------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane     | 394 | C28H58  | 000630-02-4 | 91   |
| 2    |    | Tetracosane    | 338 | C24H50  | 000646-31-1 | 91   |
| 3    |    | Docosane       | 310 | C22H46  | 000629-97-0 | 91   |
| 4    |    | Hexacosane     | 366 | C26H54  | 000630-01-3 | 90   |
| 5    |    | 1-Iodoundecane | 282 | C11H23I | 004282-44-4 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

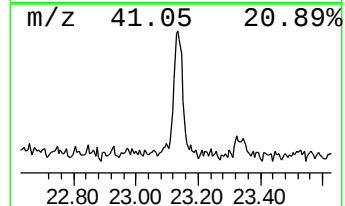
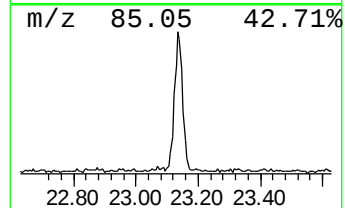
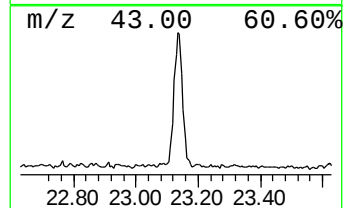
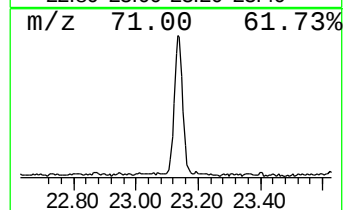
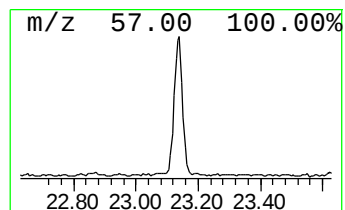
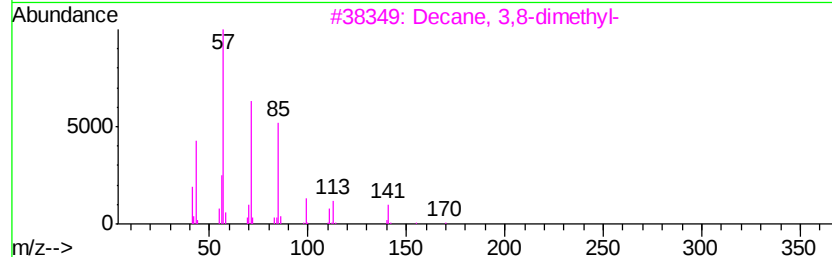
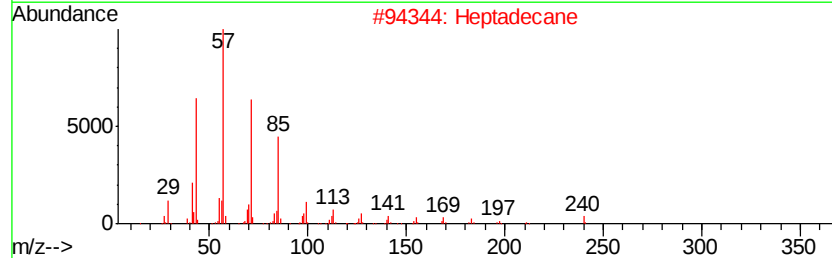
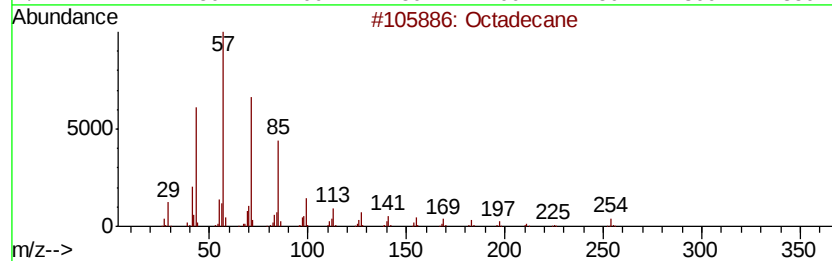
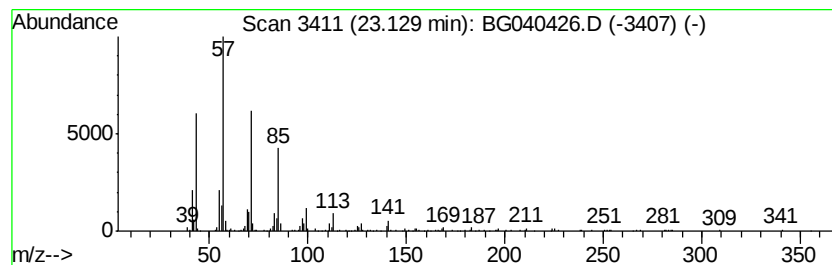
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Heptadecane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.13 | 6.89 ng | 362655 | Chrysene-d12     | 21.69 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane             | 254 | C18H38  | 000593-45-3 | 93   |
| 2    |    |   | Heptadecane            | 240 | C17H36  | 000629-78-7 | 83   |
| 3    |    |   | Decane, 3,8-dimethyl-  | 170 | C12H26  | 017312-55-9 | 83   |
| 4    |    |   | Heptadecane, 3-methyl- | 254 | C18H38  | 006418-44-6 | 83   |
| 5    |    |   | Nonadecane             | 268 | C19H40  | 000629-92-5 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

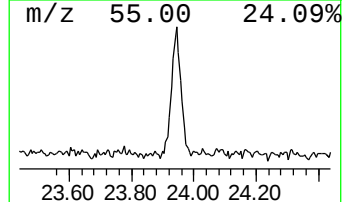
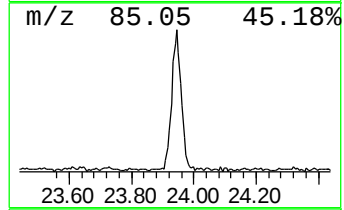
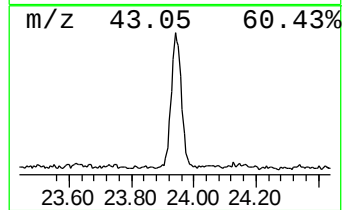
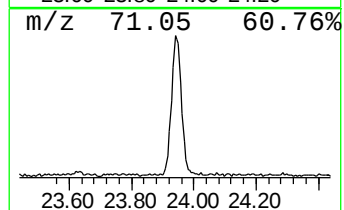
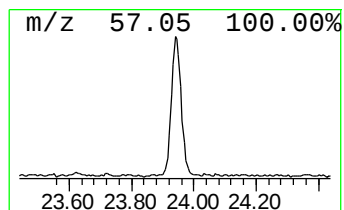
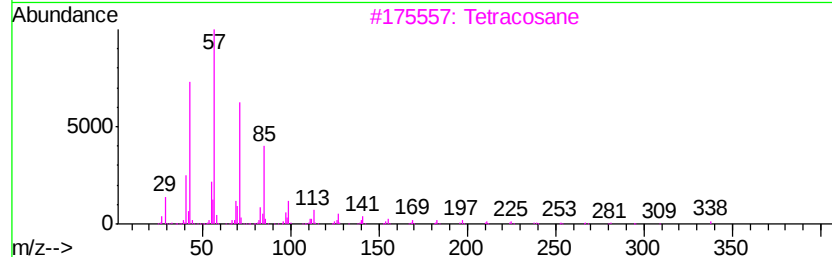
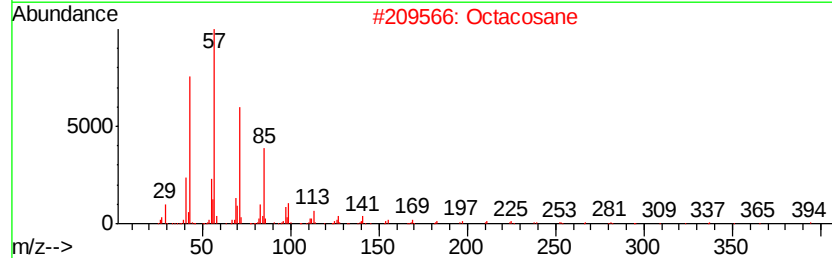
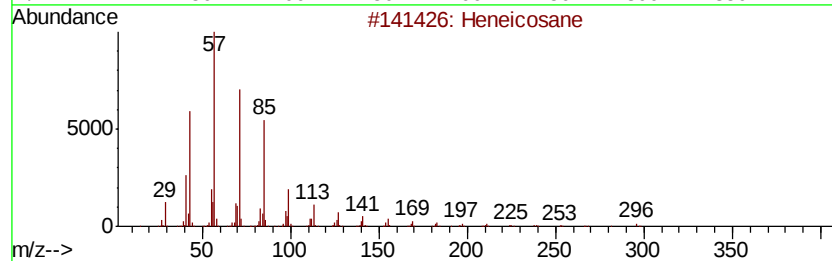
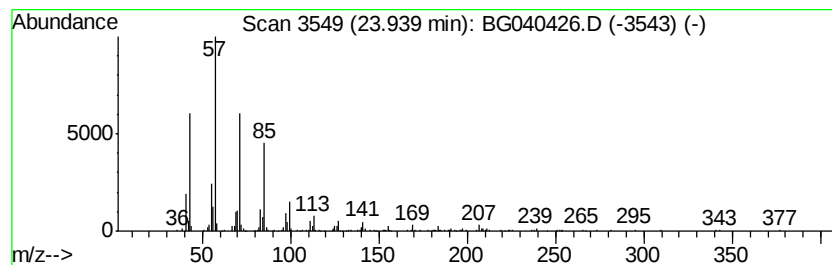
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Heneicosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.94 | 8.22 ng | 414972 | Perylene-d12     | 24.97 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane                      | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Octacosane                       | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Tetracosane                      | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 91   |
| 5    |    | Heptacosane                      | 380 | C27H56  | 000593-49-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

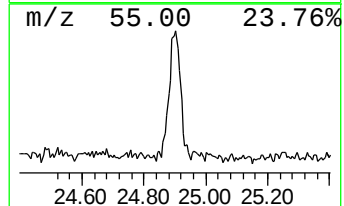
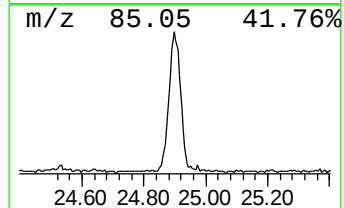
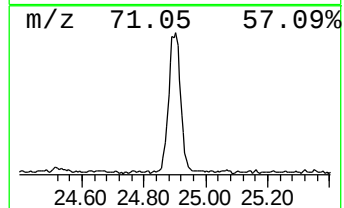
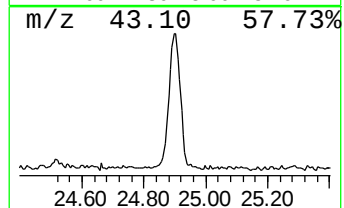
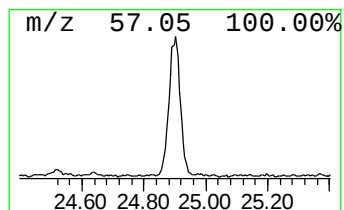
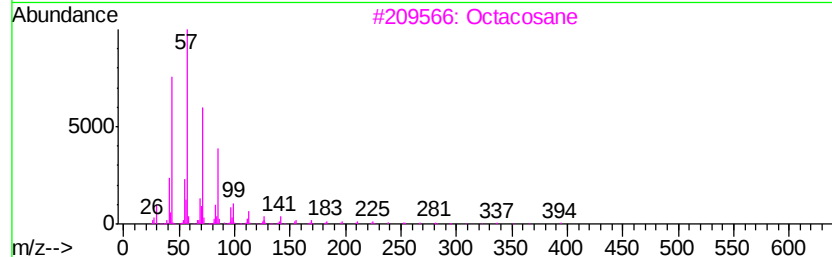
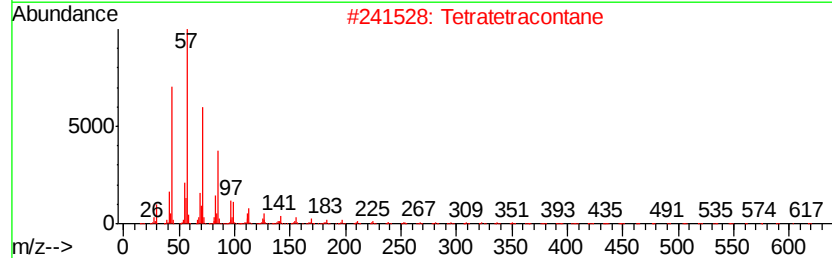
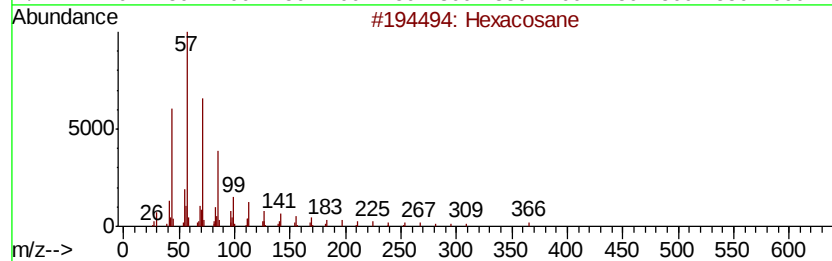
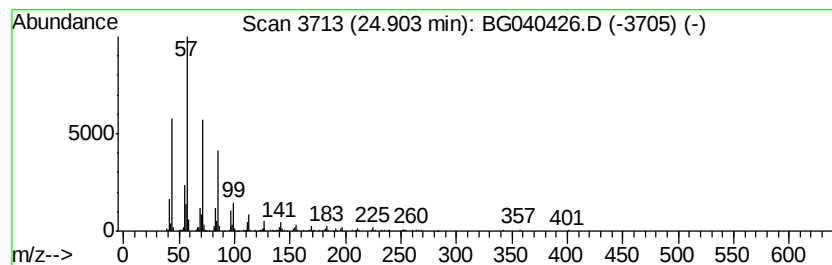
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Hexacosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 24.90 | 8.23 ng | 415734 | Perylene-d12     | 24.97 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane        | 366 | C26H54  | 000630-01-3 | 91   |
| 2    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 91   |
| 3    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 91   |
| 4    |    | Heptacosane       | 380 | C27H56  | 000593-49-7 | 91   |
| 5    |    | Heneicosane       | 296 | C21H44  | 000629-94-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

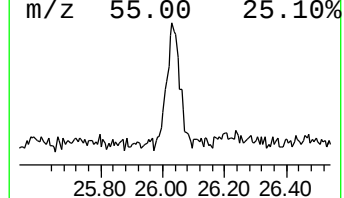
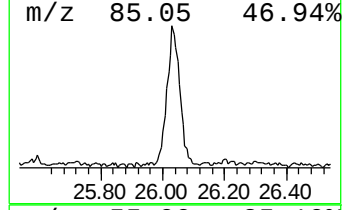
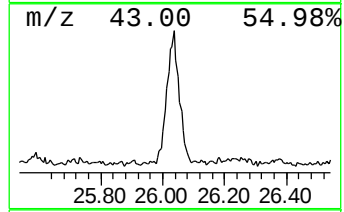
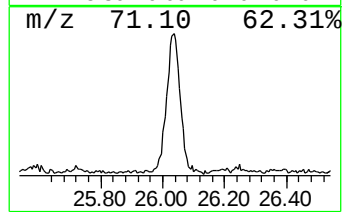
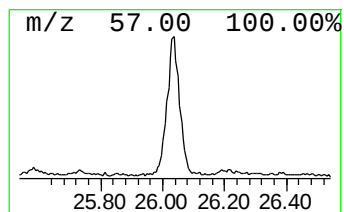
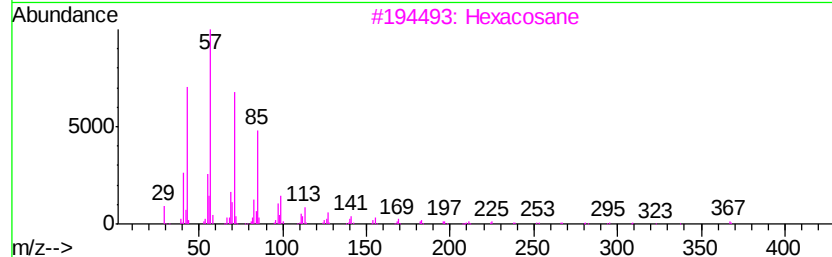
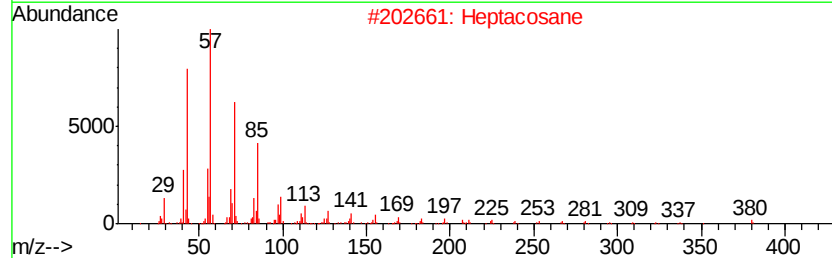
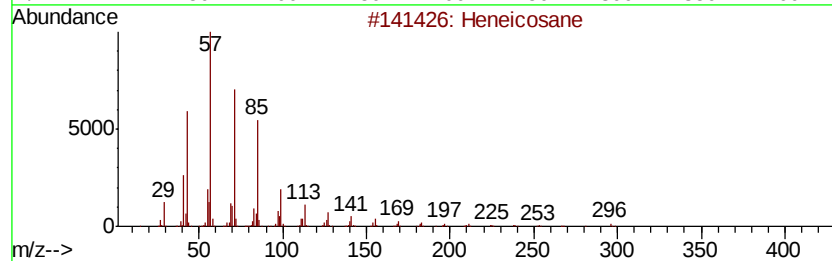
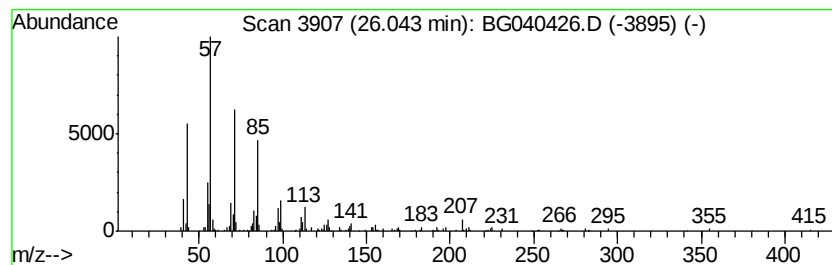
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Hentriacontane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 26.04 | 7.31 ng | 368920 | Perylene-d12     | 24.97 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 90   |
| 3    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 90   |
| 4    |    | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 90   |
| 5    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041019\  
Data File : BG040426.D  
Acq On : 10 Apr 2019 22:22  
Operator : JU/SJ  
Sample : K2311-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

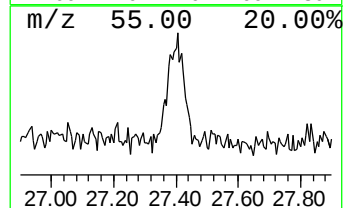
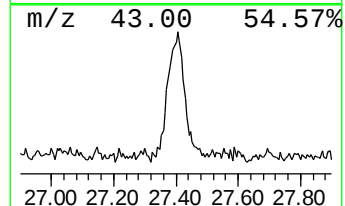
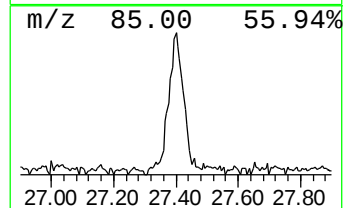
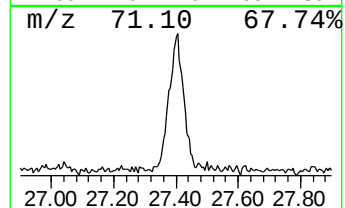
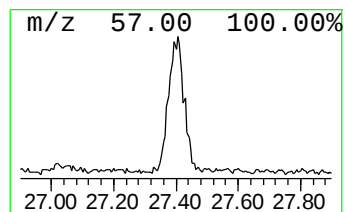
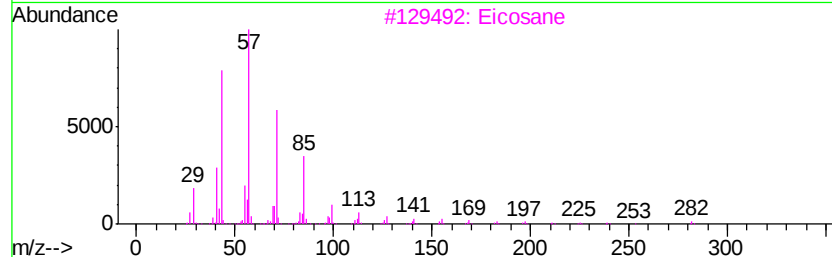
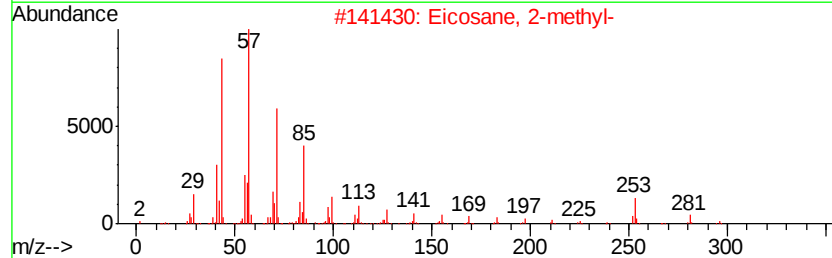
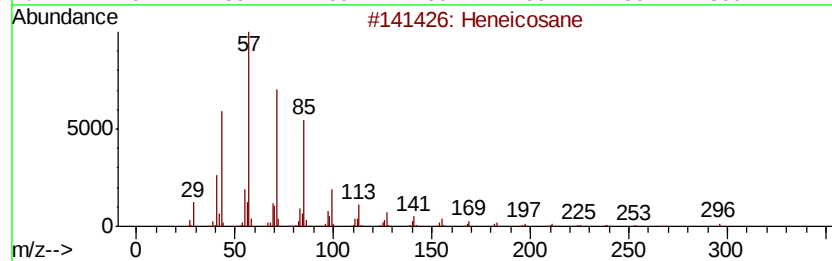
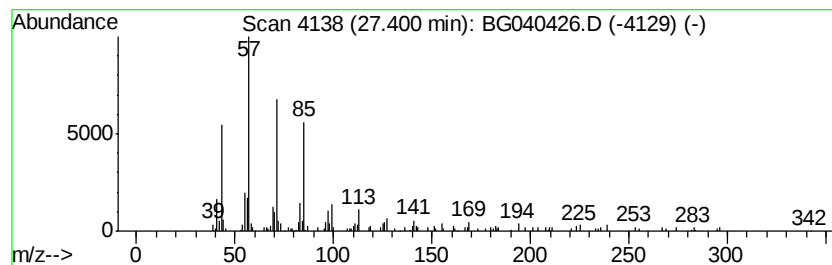
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Eicosane, 2-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 27.40 | 4.17 ng | 210507 | Perylene-d12     | 24.97 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane         | 296 | C21H44  | 000629-94-7 | 99   |
| 2    |    | Eicosane, 2-methyl- | 296 | C21H44  | 001560-84-5 | 93   |
| 3    |    | Eicosane            | 282 | C20H42  | 000112-95-8 | 93   |
| 4    |    | Octacosane          | 394 | C28H58  | 000630-02-4 | 90   |
| 5    |    | triacontane         | 422 | C30H62  | 000638-68-6 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG041019\  
 Data File : BG040426.D  
 Acq On : 10 Apr 2019 22:22  
 Operator : JU/SJ  
 Sample : K2311-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 0236-COMP-CS-1-ELTRT

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.19  | 3.5     | ng    | 68596    | 1                     | 8.05  | 392274  | 20.0 |
| unknown7.58          | 7.58  | 84.2    | ng    | 1651770  | 1                     | 8.05  | 392274  | 20.0 |
| Naphthalene, 1,5-... | 13.99 | 4.1     | ng    | 148239   | 3                     | 14.67 | 721119  | 20.0 |
| Naphthalene, 1,6,... | 15.06 | 2.6     | ng    | 94470    | 3                     | 14.67 | 721119  | 20.0 |
| Triethyl citrate     | 15.94 | 3.1     | ng    | 110632   | 3                     | 14.67 | 721119  | 20.0 |
| n-Hexadecanoic acid  | 18.28 | 6.8     | ng    | 317391   | 4                     | 17.42 | 928833  | 20.0 |
| Octadecanoic acid    | 19.54 | 2.3     | ng    | 106761   | 4                     | 17.42 | 928833  | 20.0 |
| Triacetyl hepta...   | 21.30 | 4.2     | ng    | 221771   | 5                     | 21.69 | 1052090 | 20.0 |
| Octacosane           | 21.84 | 2.5     | ng    | 130735   | 5                     | 21.69 | 1052090 | 20.0 |
| Tetracosane          | 22.44 | 4.5     | ng    | 235089   | 5                     | 21.69 | 1052090 | 20.0 |
| Heptadecane          | 23.13 | 6.9     | ng    | 362655   | 5                     | 21.69 | 1052090 | 20.0 |
| Heneicosane          | 23.94 | 8.2     | ng    | 414972   | 6                     | 24.97 | 1009980 | 20.0 |
| Hexacosane           | 24.90 | 8.2     | ng    | 415734   | 6                     | 24.97 | 1009980 | 20.0 |
| Hentriacontane       | 26.04 | 7.3     | ng    | 368920   | 6                     | 24.97 | 1009980 | 20.0 |
| Eicosane, 2-methyl-  | 27.40 | 4.2     | ng    | 210507   | 6                     | 24.97 | 1009980 | 20.0 |