

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012020\  
 Data File : BG044106.D  
 Acq On : 20 Jan 2020 20:20  
 Operator : JU  
 Sample : L1184-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CBH-140-(SETTLED)

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-BG123019.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         | 5.036       | 325           | 331         | 340          | rBV      | 90929          | 144704        | 2.51%           | 0.501%        |
| 2         | 5.512       | 403           | 412         | 428          | rBV      | 488690         | 860148        | 14.94%          | 2.978%        |
| 3         | 7.098       | 674           | 682         | 693          | rBV      | 317243         | 617649        | 10.73%          | 2.138%        |
| 4         | 7.469       | 736           | 745         | 759          | rBV      | 1090492        | 1961077       | 34.05%          | 6.790%        |
| 5         | 7.933       | 816           | 824         | 831          | rBV      | 267985         | 470504        | 8.17%           | 1.629%        |
| 6         | 8.256       | 871           | 879         | 890          | rBV      | 1108164        | 1951058       | 33.88%          | 6.755%        |
| 7         | 9.084       | 1013          | 1020        | 1033         | rBV      | 851658         | 1576174       | 27.37%          | 5.457%        |
| 8         | 10.735      | 1293          | 1301        | 1310         | rBV      | 361327         | 685664        | 11.91%          | 2.374%        |
| 9         | 13.191      | 1711          | 1719        | 1733         | rBV      | 2418046        | 3918867       | 68.05%          | 13.568%       |
| 10        | 14.020      | 1854          | 1860        | 1866         | rBV      | 86897          | 137206        | 2.38%           | 0.475%        |
| 11        | 14.566      | 1943          | 1953        | 1967         | rBV2     | 654146         | 1050043       | 18.23%          | 3.636%        |
| 12        | 16.058      | 2199          | 2207        | 2224         | rBV      | 1908779        | 3199547       | 55.56%          | 11.078%       |
| 13        | 17.310      | 2412          | 2420        | 2432         | rBV      | 815270         | 1263316       | 21.94%          | 4.374%        |
| 14        | 19.925      | 2859          | 2865        | 2874         | rBV      | 4182330        | 5758583       | 100.00%         | 19.938%       |
| 15        | 21.235      | 3083          | 3088        | 3105         | rBV      | 143521         | 299788        | 5.21%           | 1.038%        |
| 16        | 21.558      | 3136          | 3143        | 3159         | rBV2     | 784516         | 1333091       | 23.15%          | 4.616%        |
| 17        | 21.769      | 3174          | 3179        | 3187         | rVB      | 135632         | 184752        | 3.21%           | 0.640%        |
| 18        | 22.363      | 3274          | 3280        | 3286         | rBV2     | 191484         | 314405        | 5.46%           | 1.089%        |
| 19        | 23.033      | 3388          | 3394        | 3405         | rVB      | 218276         | 424871        | 7.38%           | 1.471%        |
| 20        | 23.814      | 3521          | 3527        | 3537         | rVB      | 210621         | 443979        | 7.71%           | 1.537%        |
| 21        | 24.666      | 3662          | 3672        | 3679         | rBV      | 474838         | 1341661       | 23.30%          | 4.645%        |
| 22        | 24.731      | 3679          | 3683        | 3693         | rVB      | 185545         | 424232        | 7.37%           | 1.469%        |
| 23        | 25.823      | 3860          | 3869        | 3880         | rVB2     | 115301         | 347481        | 6.03%           | 1.203%        |
| 24        | 27.128      | 4085          | 4091        | 4101         | rVB3     | 59961          | 173642        | 3.02%           | 0.601%        |

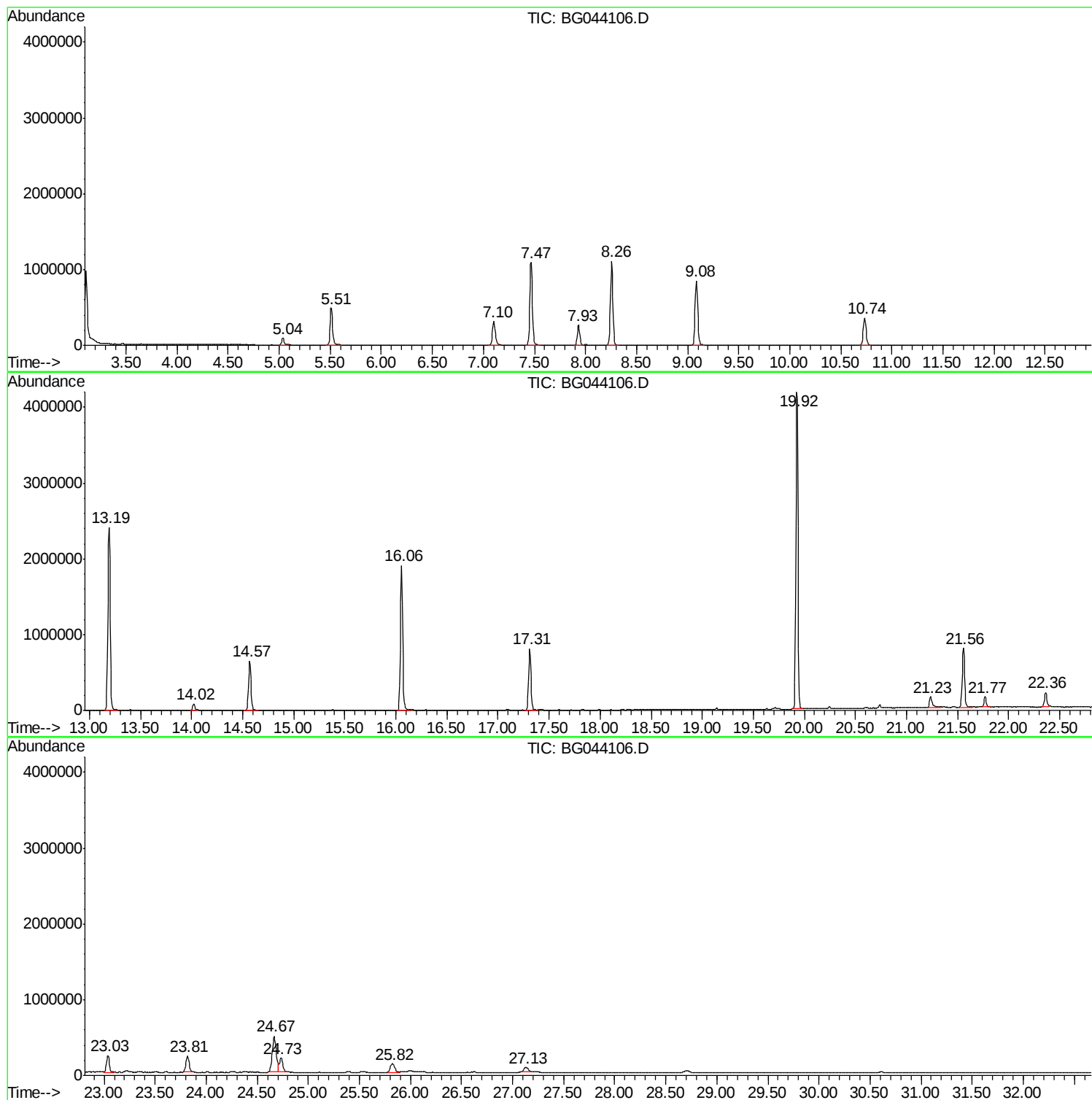
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Misc :  
ALS Vial : 8 Sample Multiplier: 1

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BNA\_G  
ClientSampleId :  
CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.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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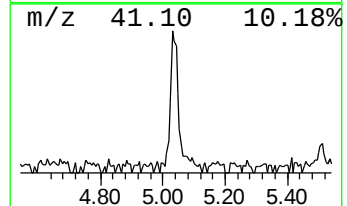
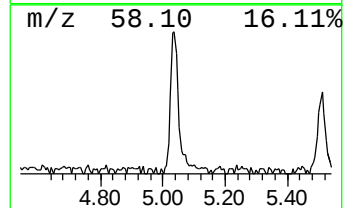
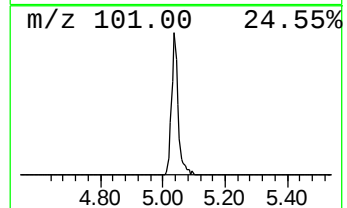
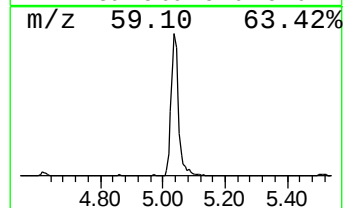
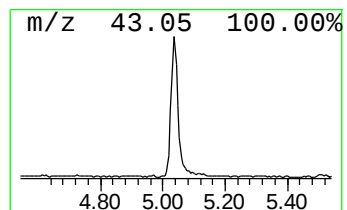
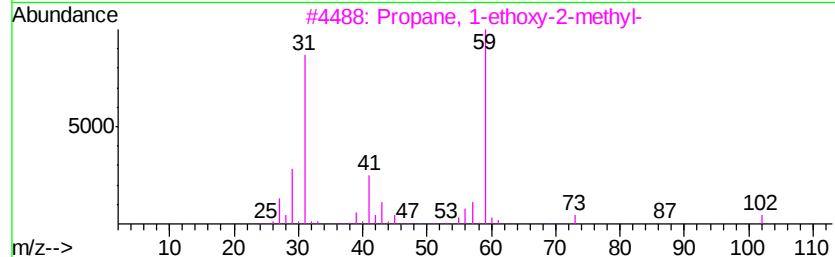
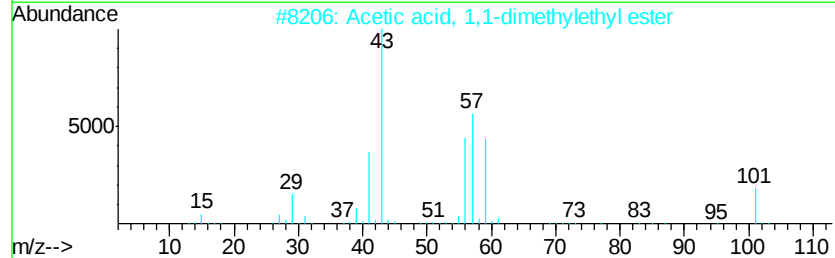
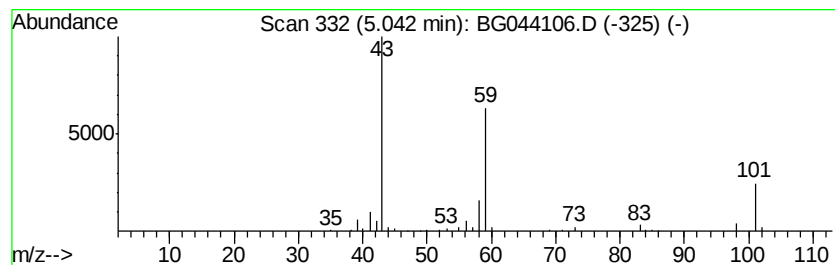
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 TIC Integration Parameters: LSCINT.P

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 Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.04 | 6.15 ng | 144704 | 1,4-Dichlorobenzene-d4 | 7.93 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2  | 64   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5  | 39   |
| 3    |    |   | Propane, 1-ethoxy-2-methyl-         | 102 | C6H14O  | 000627-02-1  | 35   |
| 4    |    |   | (+)-4-Amino-4,5-dihydro-2(3H)-f...  | 101 | C4H7NO2 | 016504-58-8  | 23   |
| 5    |    |   | .alpha.-Hydroxyisobutyric acid, ... | 146 | C6H10O4 | 1000374-31-3 | 17   |



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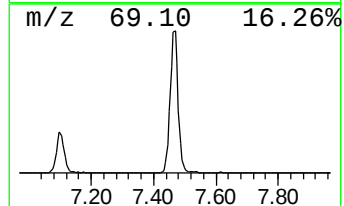
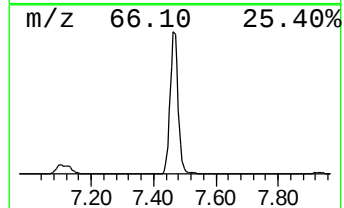
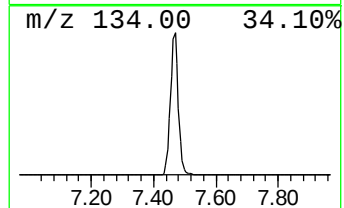
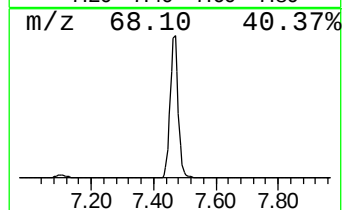
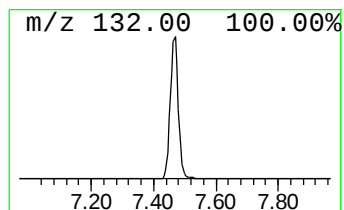
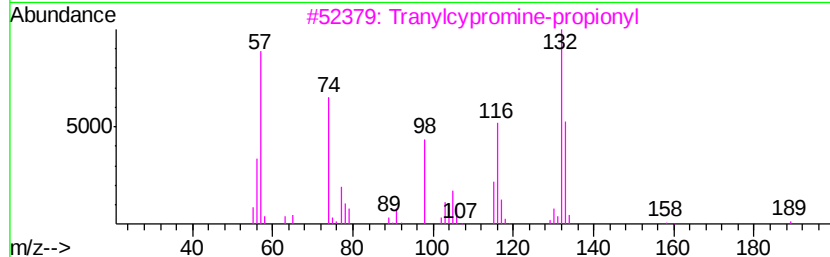
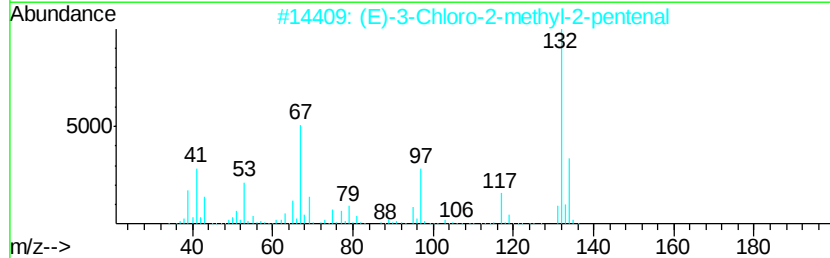
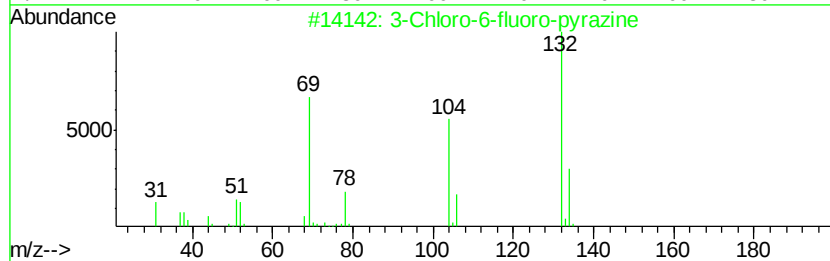
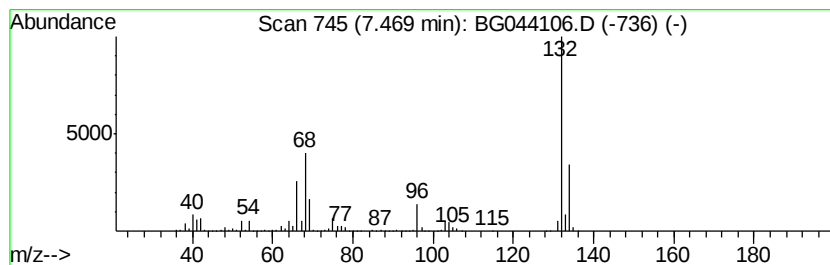
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown7.47 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.47 | 83.36 ng | 1961080 | 1,4-Dichlorobenzene-d4 | 7.93 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | Tranvlcypropane-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | Benzene, 1-ethenyl-3,5-dimethyl-    | 132 | C10H12    | 005379-20-4  | 9    |



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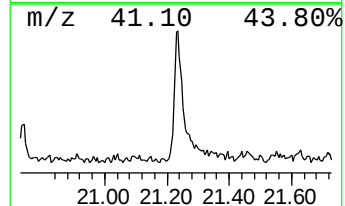
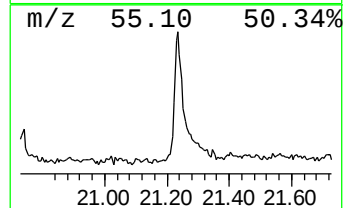
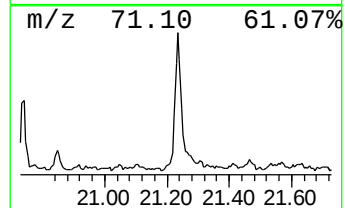
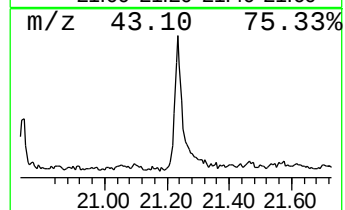
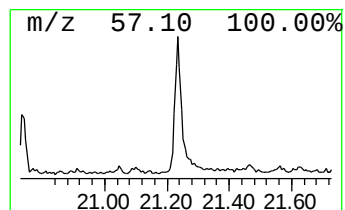
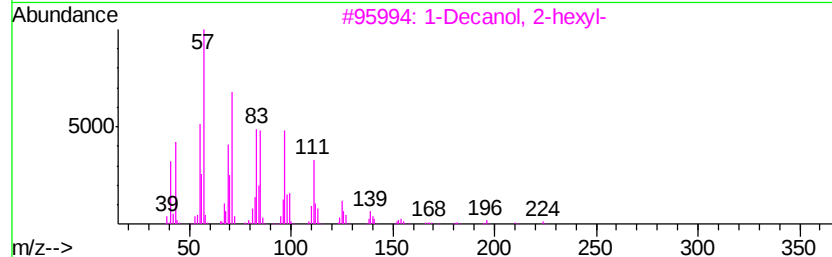
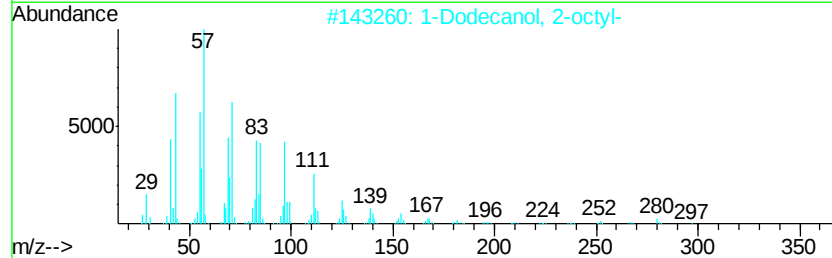
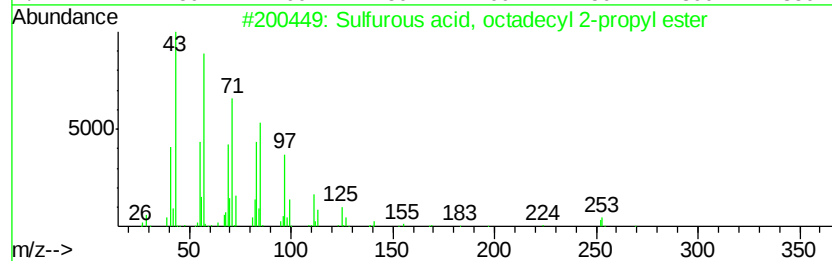
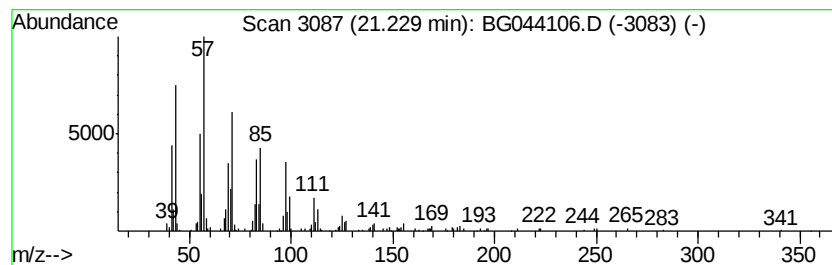
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Sulfurous acid, octadecyl 2... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.23 | 4.50 ng | 299788 | Chrysene-d12     | 21.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, octadecyl 2-prop... | 376 | C21H44O3S | 1000309-12-7 | 87   |
| 2    |    | 1-Dodecanol, 2-octyl-               | 298 | C20H42O   | 005333-42-6  | 87   |
| 3    |    | 1-Decanol, 2-hexyl-                 | 242 | C16H34O   | 002425-77-6  | 87   |
| 4    |    | Oxalic acid, isobutyl tetradecyl... | 342 | C20H38O4  | 1000309-37-9 | 80   |
| 5    |    | Nonadecane                          | 268 | C19H40    | 000629-92-5  | 74   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

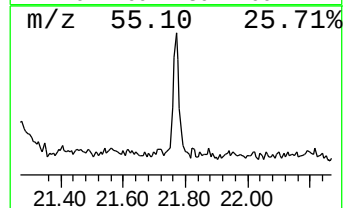
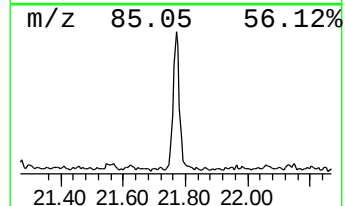
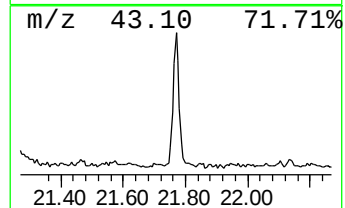
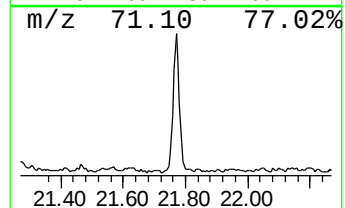
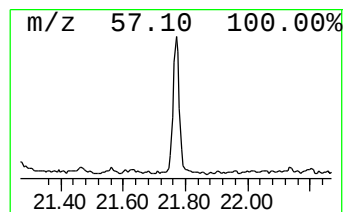
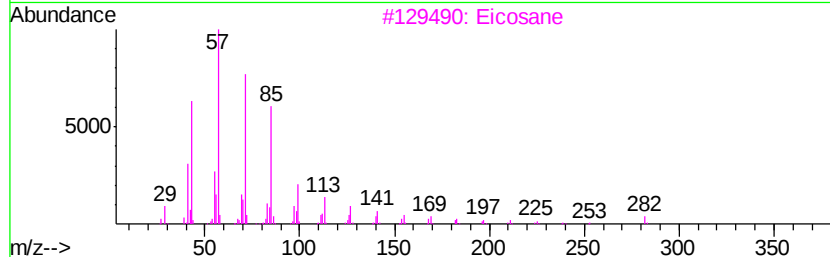
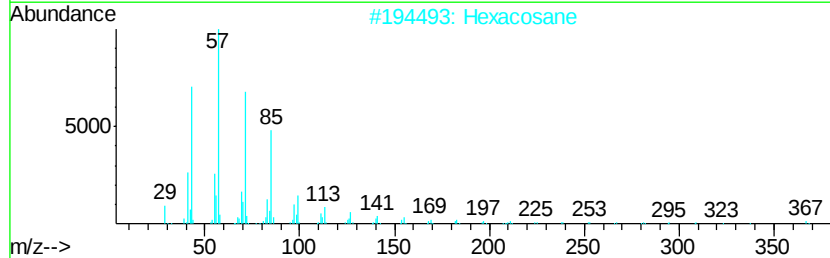
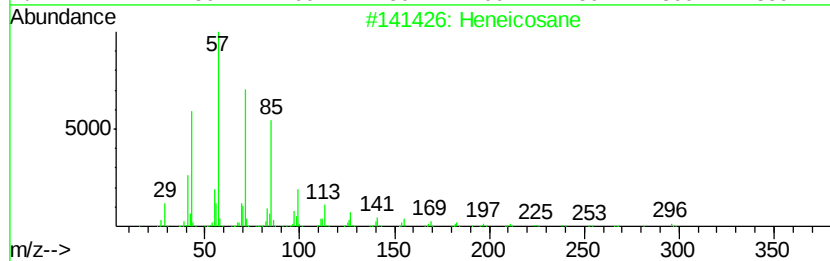
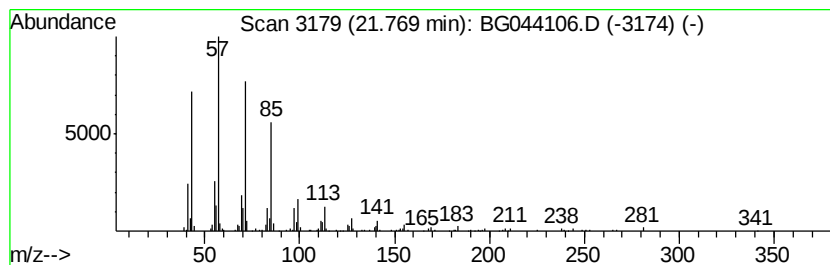
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heneicosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.77 | 2.77 ng | 184752 | Chrysene-d12     | 21.56 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane           |              | 296 | C21H44  | 000629-94-7 | 91   |
| 2       | Hexacosane            |              | 366 | C26H54  | 000630-01-3 | 91   |
| 3       | Eicosane              |              | 282 | C20H42  | 000112-95-8 | 91   |
| 4       | Tetracosane           |              | 338 | C24H50  | 000646-31-1 | 91   |
| 5       | Heptadecane, 9-octyl- |              | 352 | C25H52  | 007225-64-1 | 91   |



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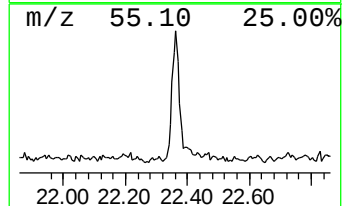
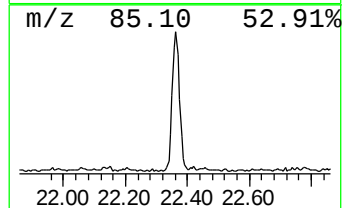
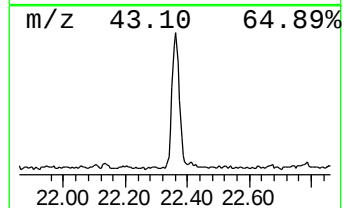
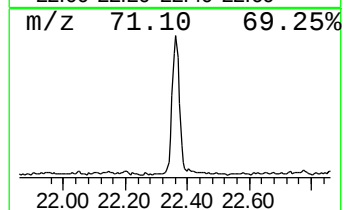
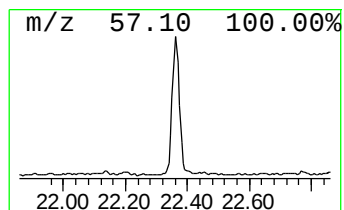
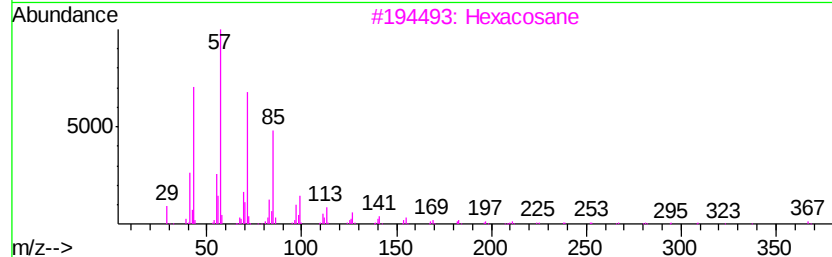
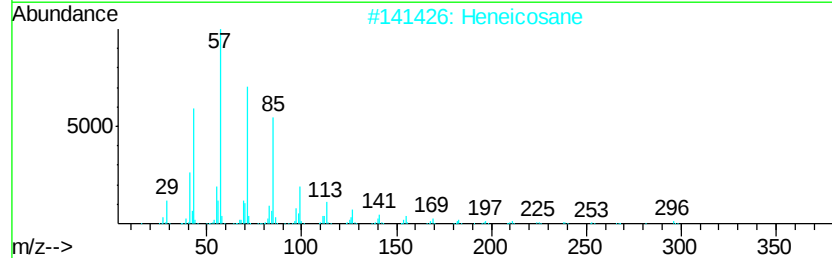
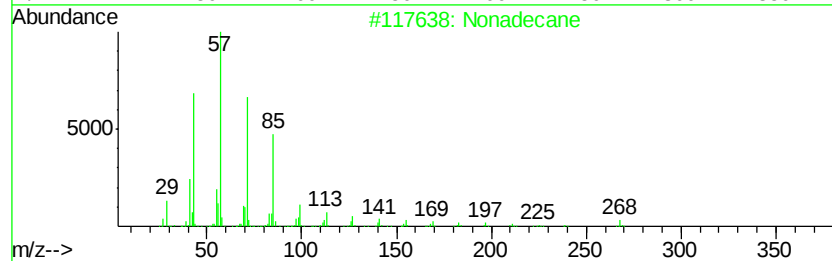
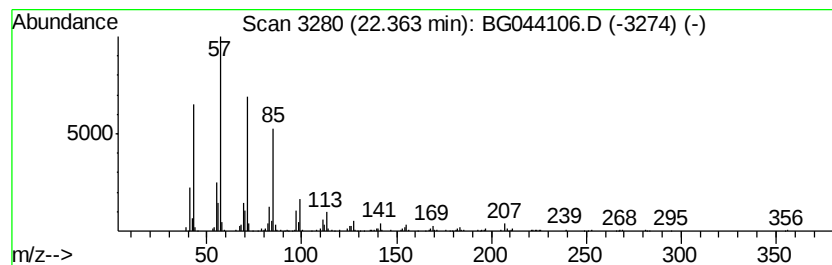
TIC Library : C:\Database\NIST11.L  
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Peak Number 6 Nonadecane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.36 | 4.72 ng | 314405 | Chrysene-d12     | 21.56 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Nonadecane         | 268 | C19H40  | 000629-92-5  | 95   |
| 2    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 3    |    | Hexacosane         | 366 | C26H54  | 000630-01-3  | 91   |
| 4    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 5    |    | Tetracosane        | 338 | C24H50  | 000646-31-1  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012020\  
 Data File : BG044106.D  
 Acq On : 20 Jan 2020 20:20  
 Operator : JU  
 Sample : L1184-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

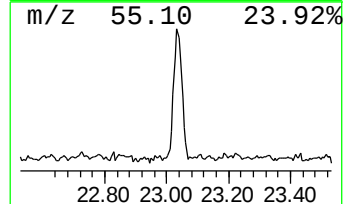
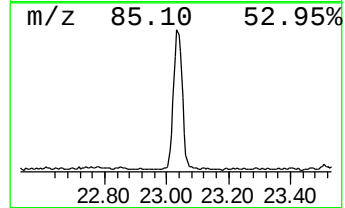
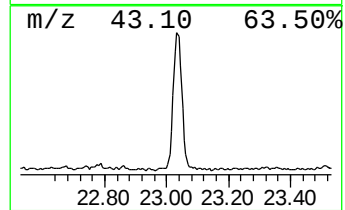
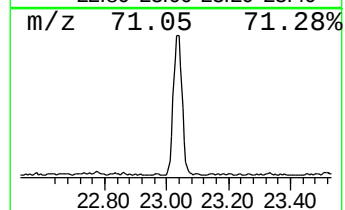
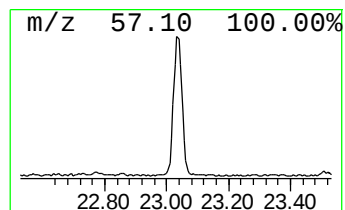
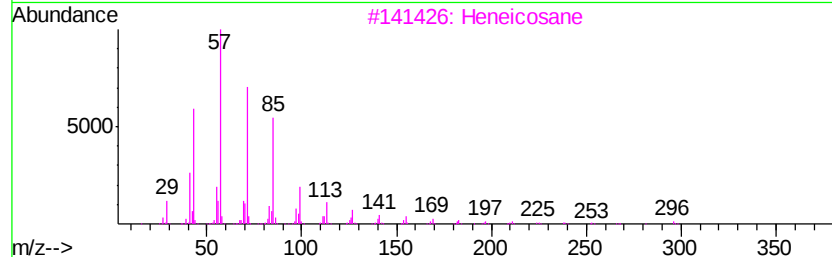
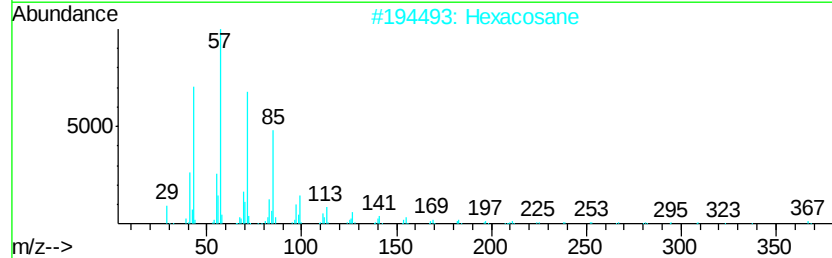
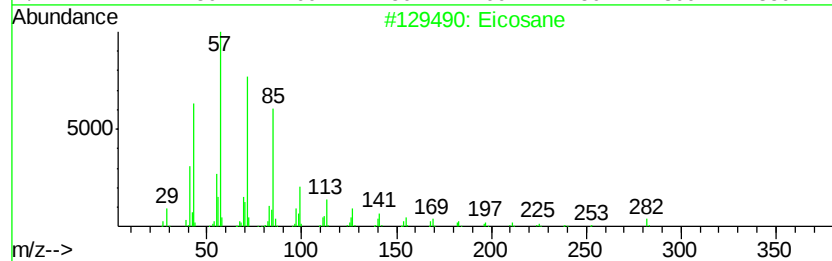
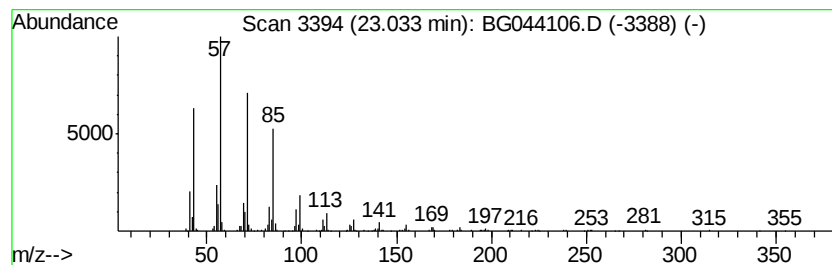
TIC Library : C:\Database\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 7 Eicosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.03 | 6.37 ng | 424871 | Chrysene-d12     | 21.56 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 95   |
| 2    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 91   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    | Tetracosane           | 338 | C24H50  | 000646-31-1 | 91   |
| 5    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012020\  
 Data File : BG044106.D  
 Acq On : 20 Jan 2020 20:20  
 Operator : JU  
 Sample : L1184-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

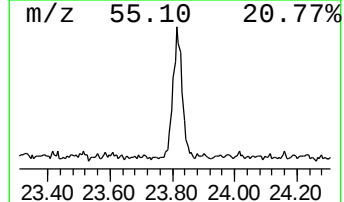
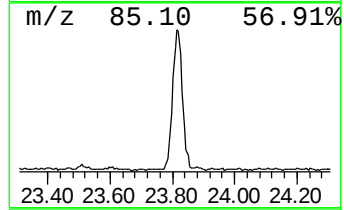
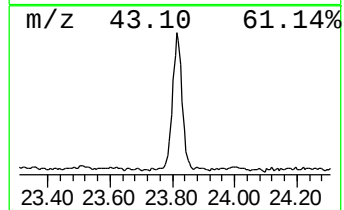
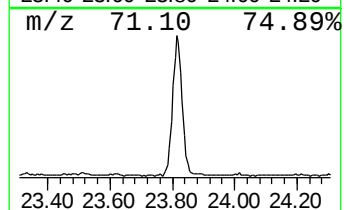
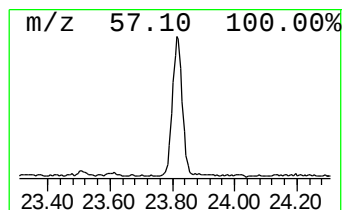
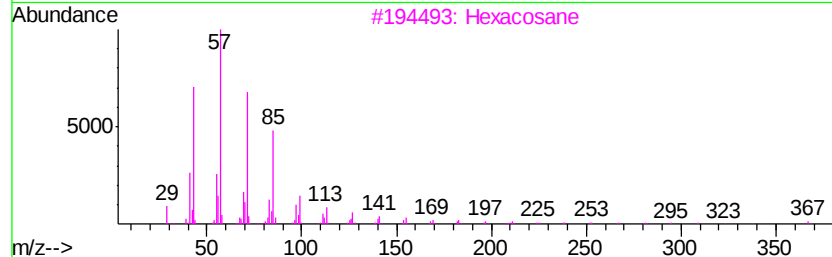
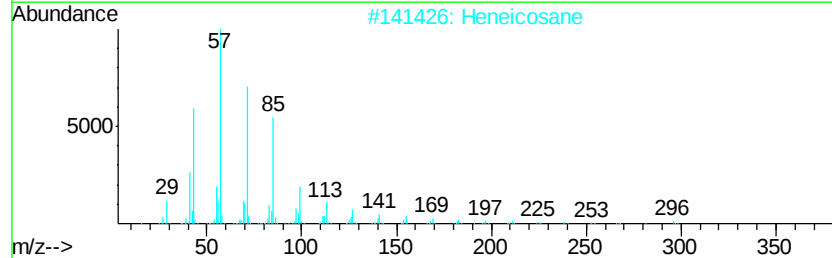
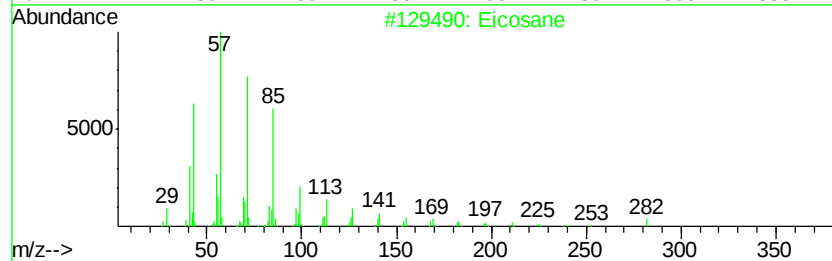
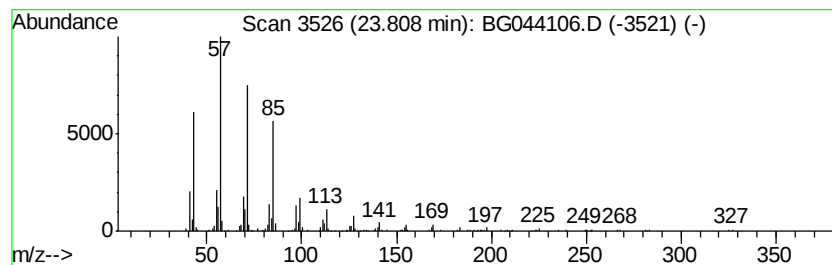
TIC Library : C:\Database\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 8 Hexacosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.81 | 6.62 ng | 443979 | Perylene-d12     | 24.67 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane     | 282 | C20H42  | 000112-95-8 | 91   |
| 2    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Hexacosane   | 366 | C26H54  | 000630-01-3 | 91   |
| 4    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 91   |
| 5    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012020\  
Data File : BG044106.D  
Acq On : 20 Jan 2020 20:20  
Operator : JU  
Sample : L1184-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

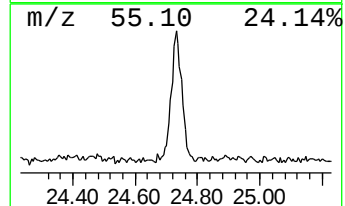
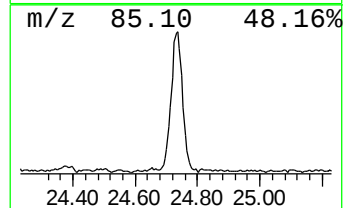
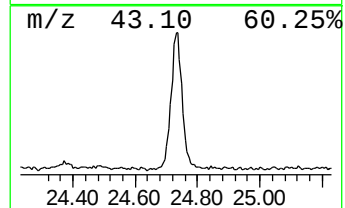
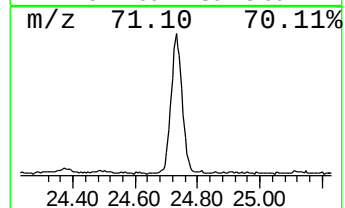
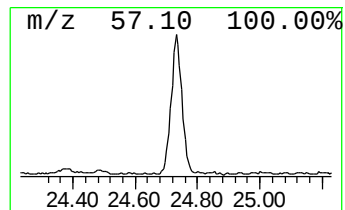
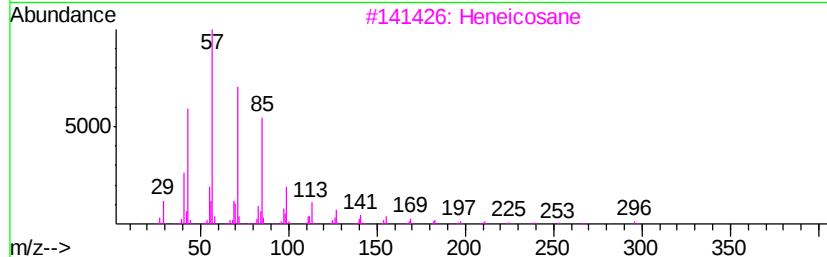
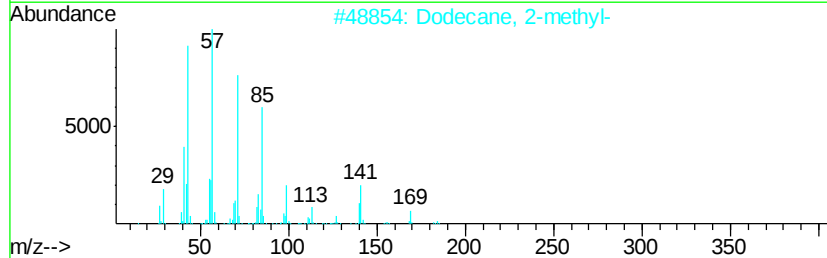
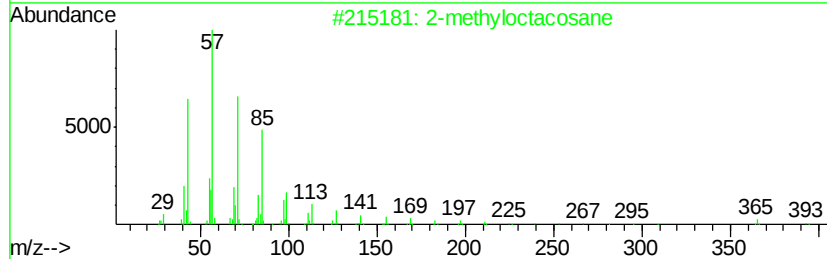
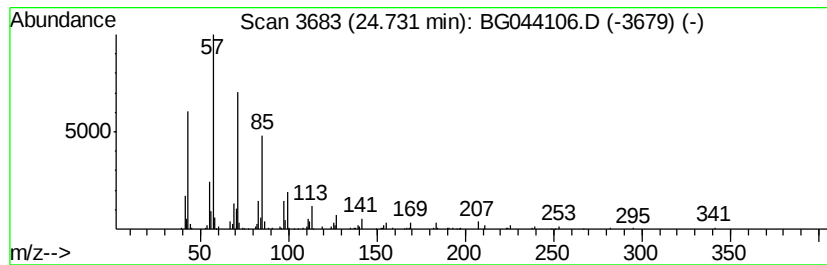
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 2-methyloctacosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 24.73 | 6.32 ng | 424232 | Perylene-d12     | 24.67 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane  | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    | Dodecane, 2-methyl- | 184 | C13H28  | 001560-97-0  | 87   |
| 3    |    | Heneicosane         | 296 | C21H44  | 000629-94-7  | 87   |
| 4    |    | Triacontane         | 422 | C30H62  | 000638-68-6  | 87   |
| 5    |    | Octacosane          | 394 | C28H58  | 000630-02-4  | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012020\  
Data File : BG044106.D  
Acq On : 20 Jan 2020 20:20  
Operator : JU  
Sample : L1184-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

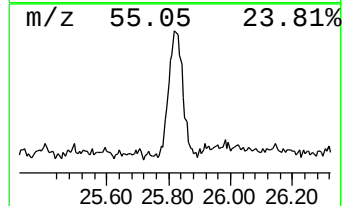
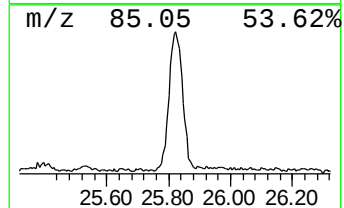
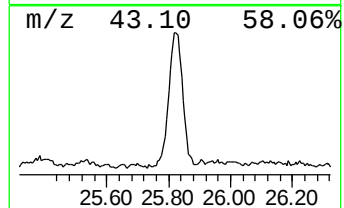
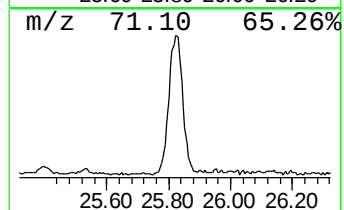
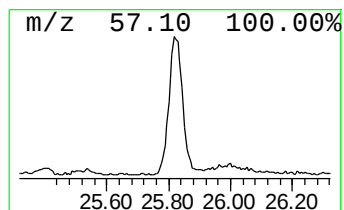
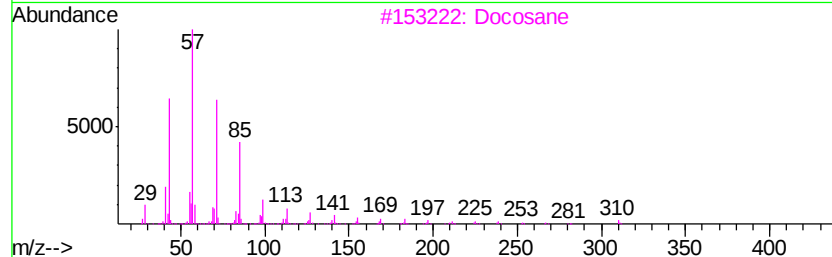
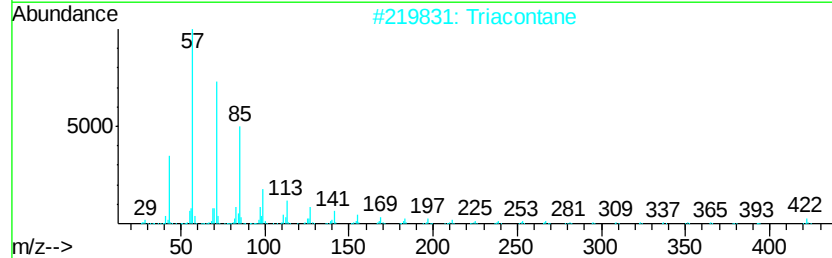
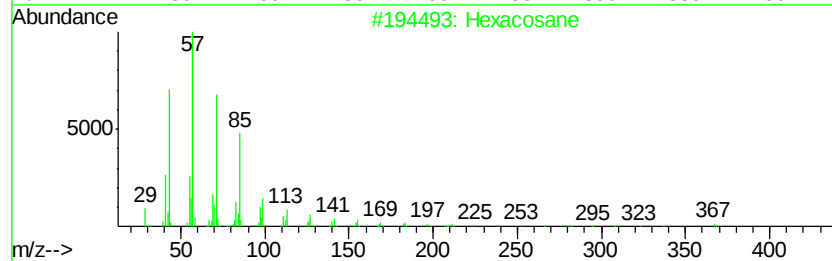
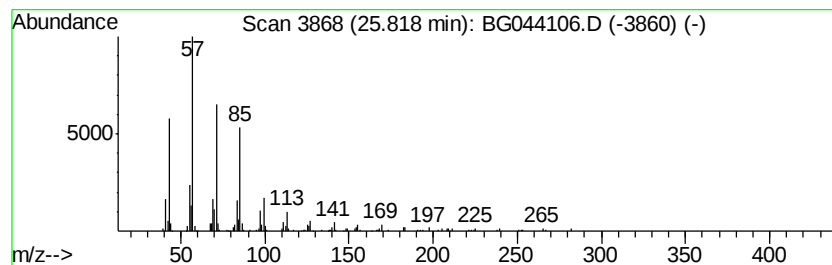
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Docosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 25.82 | 5.18 ng | 347481 | Perylene-d12     | 24.67 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane   | 366 | C26H54  | 000630-01-3 | 94   |
| 2    |    | Triacontane  | 422 | C30H62  | 000638-68-6 | 90   |
| 3    |    | Docosane     | 310 | C22H46  | 000629-97-0 | 87   |
| 4    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 87   |
| 5    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012020\  
Data File : BG044106.D  
Acq On : 20 Jan 2020 20:20  
Operator : JU  
Sample : L1184-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

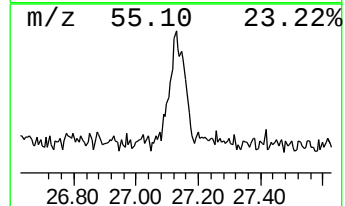
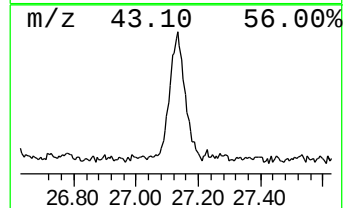
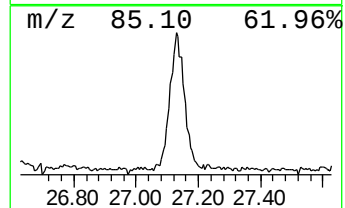
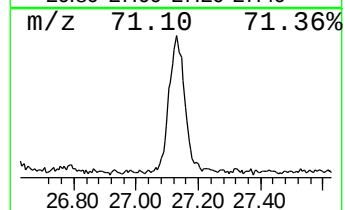
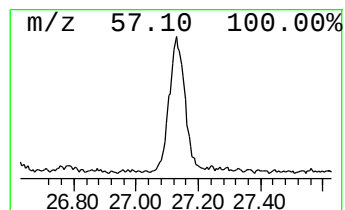
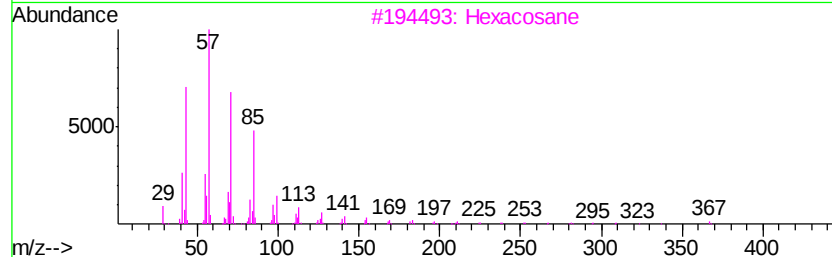
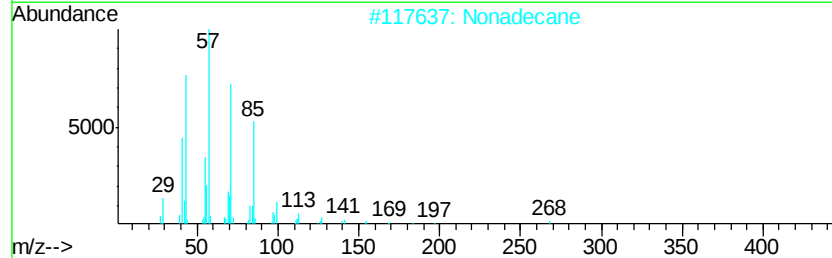
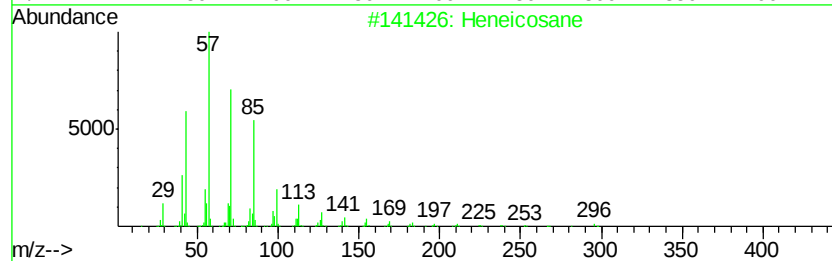
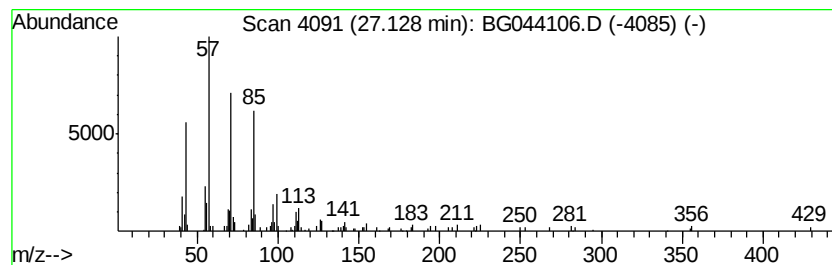
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Heptadecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 27.13 | 2.59 ng | 173642 | Perylene-d12     | 24.67 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 87   |
| 2    |    |   | Nonadecane   | 268 | C19H40  | 000629-92-5 | 86   |
| 3    |    |   | Hexacosane   | 366 | C26H54  | 000630-01-3 | 83   |
| 4    |    |   | Heptadecane  | 240 | C17H36  | 000629-78-7 | 72   |
| 5    |    |   | Docosane     | 310 | C22H46  | 000629-97-0 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG012020\  
 Data File : BG044106.D  
 Acq On : 20 Jan 2020 20:20  
 Operator : JU  
 Sample : L1184-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CBH-140-(SETTLED)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG123019.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 |
| 2-Pentanone, 4-hy... | 5.04  | 6.2     | ng    | 144704   | 1                     | 7.93  | 470504  | 20.0 |
| unknown7.47          | 7.47  | 83.4    | ng    | 1961080  | 1                     | 7.93  | 470504  | 20.0 |
| Sulfurous acid, o... | 21.23 | 4.5     | ng    | 299788   | 5                     | 21.56 | 1333090 | 20.0 |
| Heneicosane          | 21.77 | 2.8     | ng    | 184752   | 5                     | 21.56 | 1333090 | 20.0 |
| Nonadecane           | 22.36 | 4.7     | ng    | 314405   | 5                     | 21.56 | 1333090 | 20.0 |
| Eicosane             | 23.03 | 6.4     | ng    | 424871   | 5                     | 21.56 | 1333090 | 20.0 |
| Hexacosane           | 23.81 | 6.6     | ng    | 443979   | 6                     | 24.67 | 1341660 | 20.0 |
| 2-methyloctacosane   | 24.73 | 6.3     | ng    | 424232   | 6                     | 24.67 | 1341660 | 20.0 |
| Docosane             | 25.82 | 5.2     | ng    | 347481   | 6                     | 24.67 | 1341660 | 20.0 |
| Heptadecane          | 27.13 | 2.6     | ng    | 173642   | 6                     | 24.67 | 1341660 | 20.0 |