

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082918\  
 Data File : BF108598.D  
 Acq On : 29 Aug 2018 12:18  
 Operator : JU/SJ  
 Sample : PB112423BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB112423BL

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\_F\METHODS\8270-BF080818.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         | 2.431       | 8             | 16          | 23           | rVB      | 75053          | 107374        | 2.06%           | 0.277%        |
| 2         | 5.272       | 495           | 499         | 511          | rBV      | 63027          | 118436        | 2.27%           | 0.306%        |
| 3         | 5.642       | 558           | 562         | 593          | rBV      | 2491871        | 3480244       | 66.64%          | 8.977%        |
| 4         | 6.631       | 725           | 730         | 750          | rBV      | 2673643        | 3821121       | 73.16%          | 9.856%        |
| 5         | 6.772       | 750           | 754         | 778          | rVB      | 3189304        | 3883756       | 74.36%          | 10.018%       |
| 6         | 7.001       | 789           | 793         | 815          | rVB      | 620079         | 869286        | 16.64%          | 2.242%        |
| 7         | 7.154       | 815           | 819         | 845          | rBV      | 2655475        | 3008558       | 57.61%          | 7.760%        |
| 8         | 7.566       | 884           | 889         | 928          | rBV      | 1851451        | 2608886       | 49.95%          | 6.730%        |
| 9         | 8.283       | 1006          | 1011        | 1037         | rBV      | 797285         | 1107903       | 21.21%          | 2.858%        |
| 10        | 9.354       | 1187          | 1193        | 1222         | rBV      | 4339425        | 4915839       | 94.13%          | 12.680%       |
| 11        | 10.042      | 1304          | 1310        | 1328         | rBV      | 1246732        | 1327833       | 25.42%          | 3.425%        |
| 12        | 10.842      | 1441          | 1446        | 1473         | rBV      | 2751447        | 3184242       | 60.97%          | 8.214%        |
| 13        | 11.542      | 1561          | 1565        | 1584         | rVB      | 1377342        | 1445684       | 27.68%          | 3.729%        |
| 14        | 13.130      | 1829          | 1835        | 1838         | rBV      | 5106825        | 5222625       | 100.00%         | 13.472%       |
| 15        | 14.195      | 2012          | 2016        | 2027         | rVB      | 1372758        | 1303339       | 24.96%          | 3.362%        |
| 16        | 14.948      | 2140          | 2144        | 2149         | rVB      | 108009         | 108596        | 2.08%           | 0.280%        |
| 17        | 15.307      | 2198          | 2205        | 2210         | rBV      | 168062         | 206776        | 3.96%           | 0.533%        |
| 18        | 15.718      | 2269          | 2275        | 2277         | rBV      | 217771         | 304527        | 5.83%           | 0.786%        |
| 19        | 15.754      | 2277          | 2281        | 2292         | rVB      | 636675         | 914940        | 17.52%          | 2.360%        |
| 20        | 16.189      | 2348          | 2355        | 2362         | rBV      | 194501         | 306933        | 5.88%           | 0.792%        |
| 21        | 16.736      | 2442          | 2448        | 2458         | rVB      | 135194         | 248907        | 4.77%           | 0.642%        |
| 22        | 17.383      | 2551          | 2558        | 2567         | rVB      | 66495          | 150966        | 2.89%           | 0.389%        |
| 23        | 18.153      | 2679          | 2689        | 2700         | rBV2     | 43147          | 120894        | 2.31%           | 0.312%        |

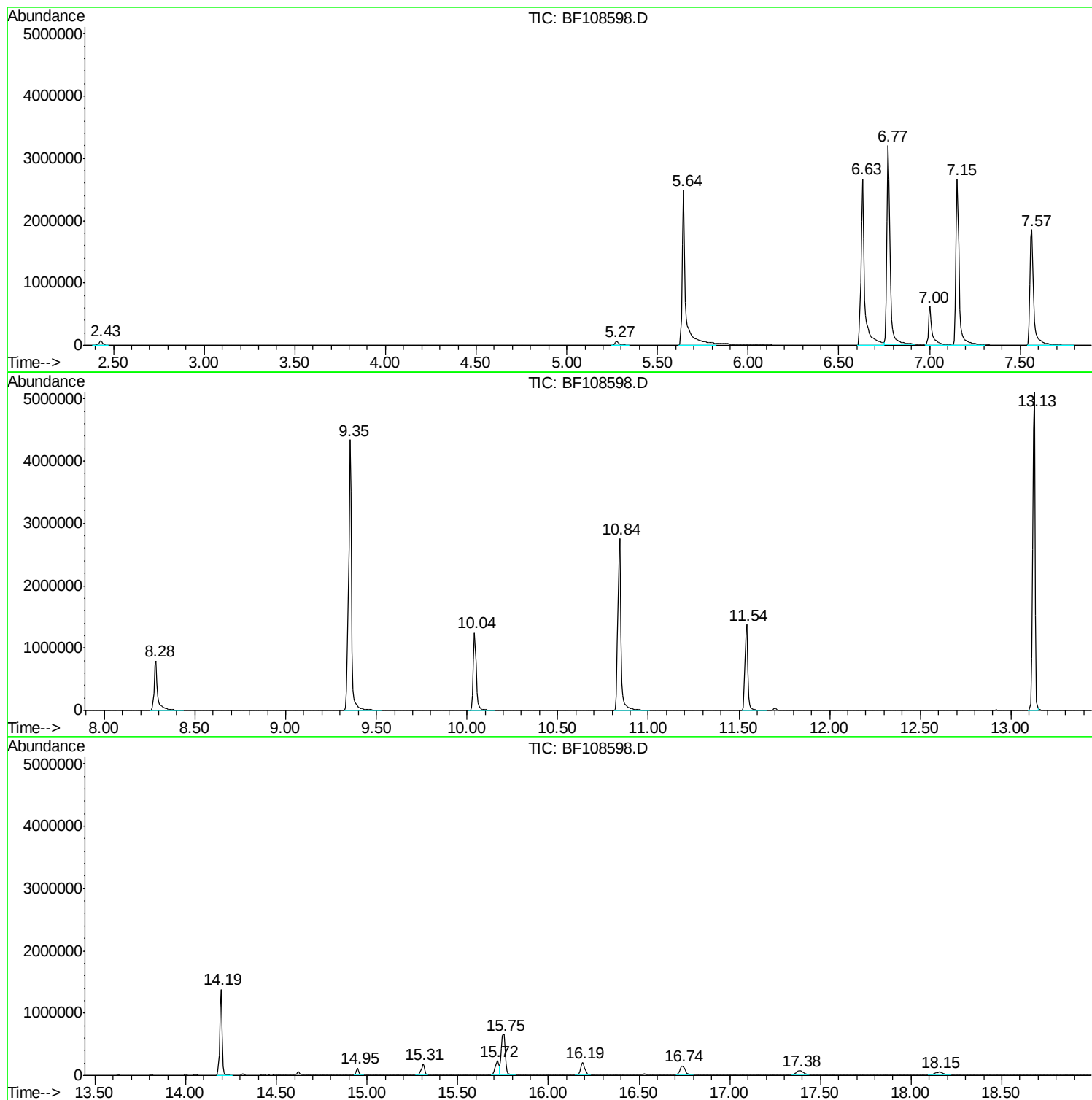
Sum of corrected areas: 38767665

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleID :  
PB112423BL

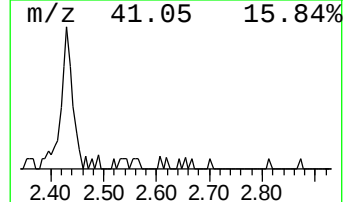
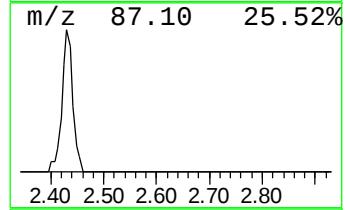
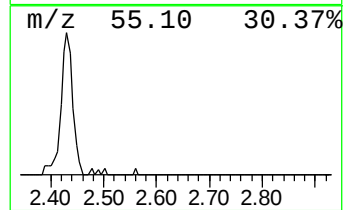
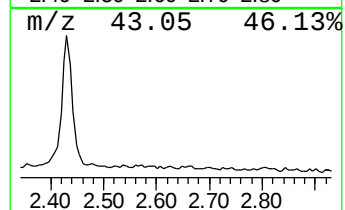
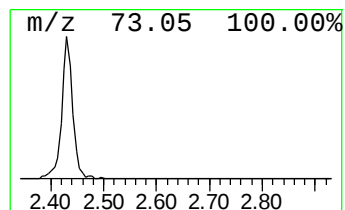
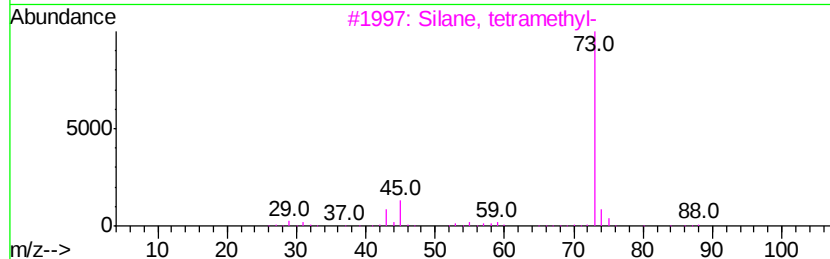
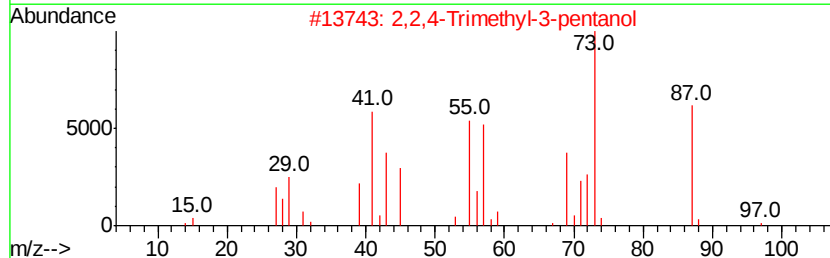
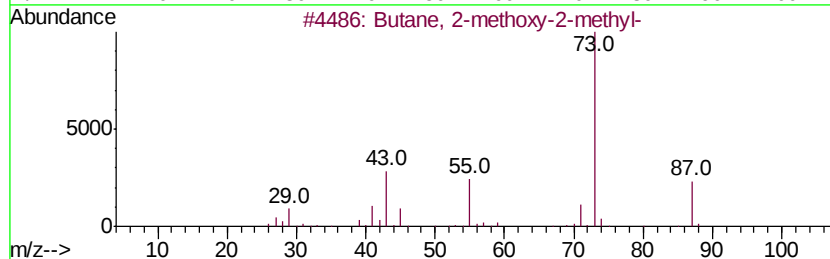
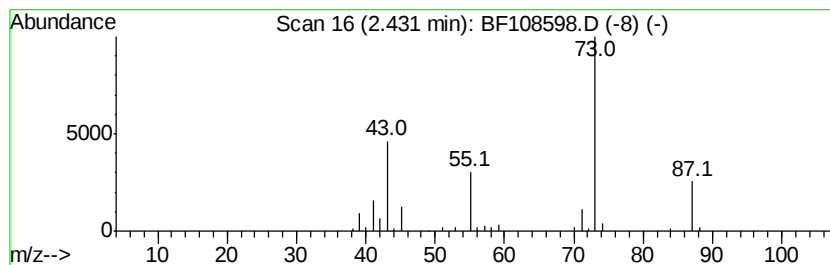
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 9

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.43 | 2.47 ng | 107374 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-         | 102 | C6H14O   | 000994-05-8 | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol          | 130 | C8H18O   | 005162-48-1 | 40   |
| 3    |    | Silane, tetramethyl-                | 88  | C4H12Si  | 000075-76-3 | 17   |
| 4    |    | Boronic acid, ethyl-, dimethyl e... | 102 | C4H11BO2 | 007318-82-3 | 12   |
| 5    |    | 1,3-Dioxolane, 2-methyl-            | 88  | C4H8O2   | 000497-26-7 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

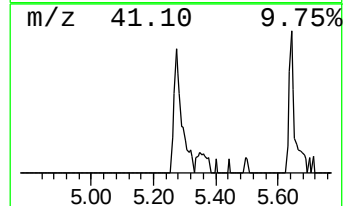
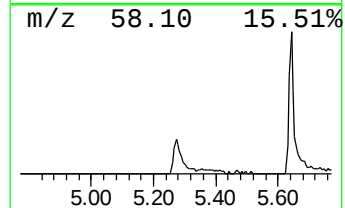
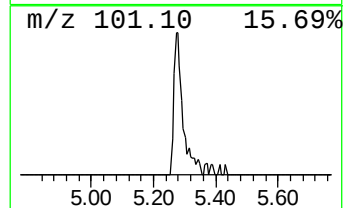
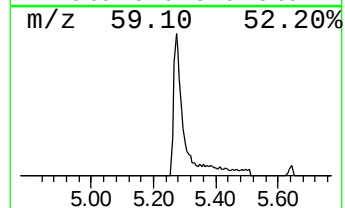
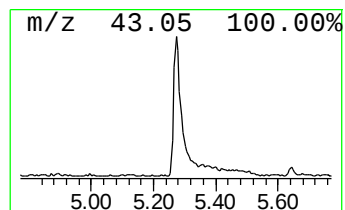
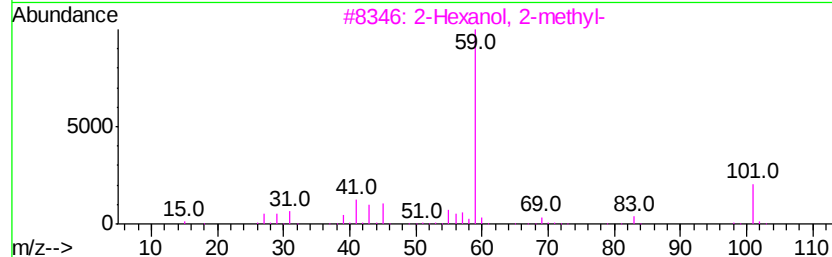
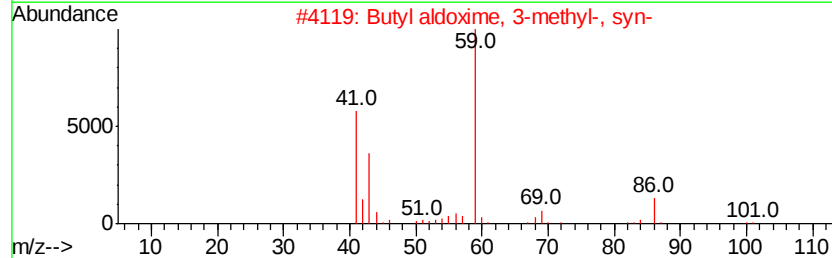
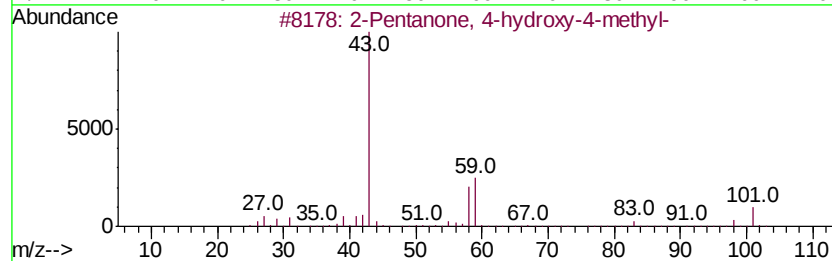
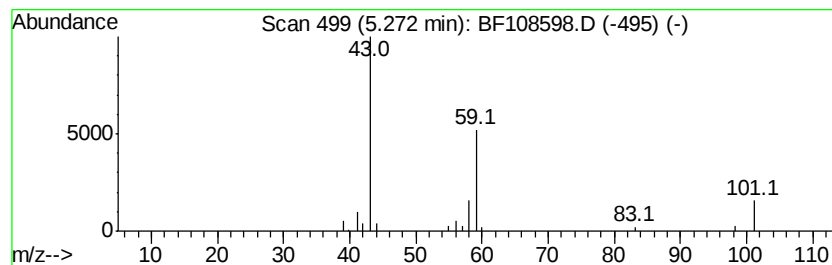
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.27 | 2.72 ng | 118436 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64   |
| 2    |    | Butyl aldoxime, 3-methyl-, syn-  | 101 | C5H11NO | 005780-40-5 | 23   |
| 3    |    | 2-Hexanol, 2-methyl-             | 116 | C7H16O  | 000625-23-0 | 9    |
| 4    |    | 3-Octanol                        | 130 | C8H18O  | 000589-98-0 | 9    |
| 5    |    | 3-Hexanol                        | 102 | C6H14O  | 000623-37-0 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

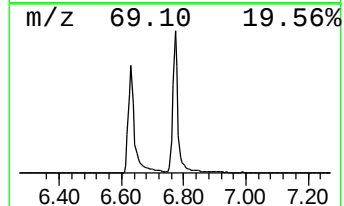
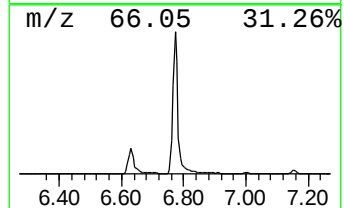
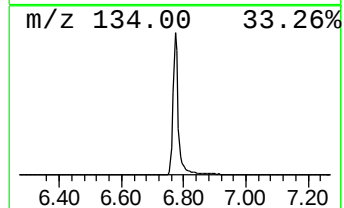
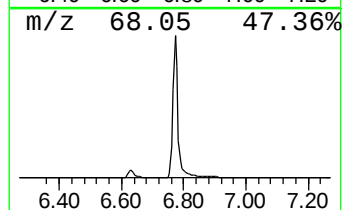
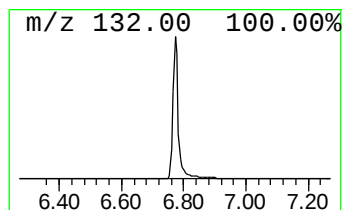
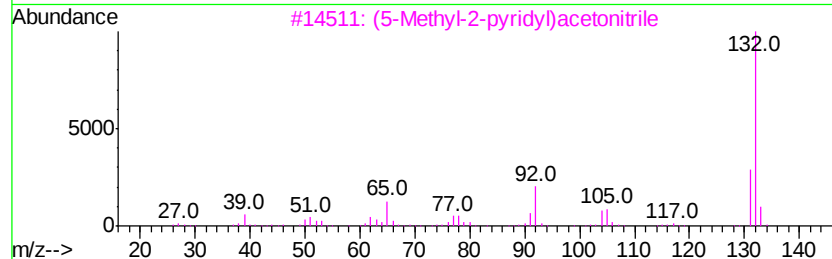
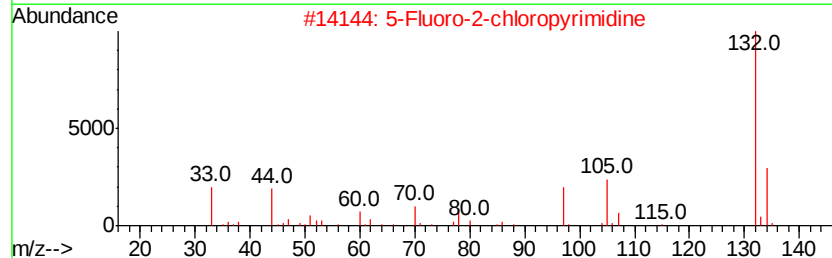
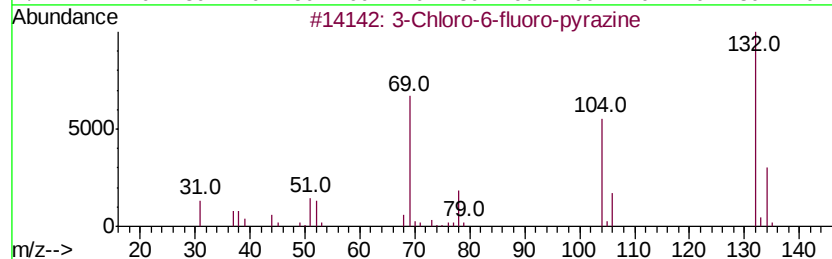
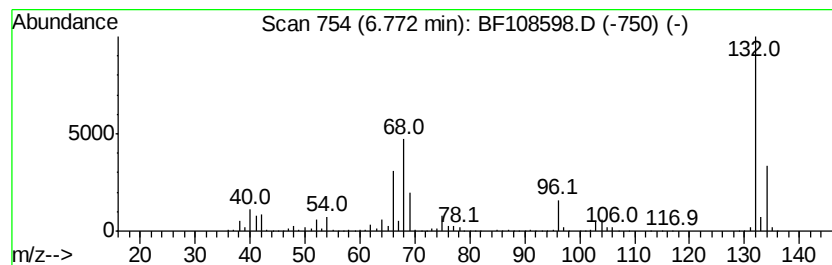
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.77 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.77 | 89.36 ng | 3883760 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 3    |    | (5-Methyl-2-pyridyl)acetonitrile    | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 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    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

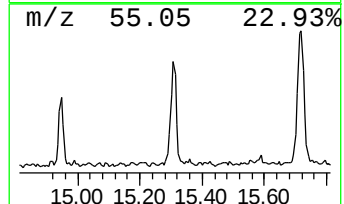
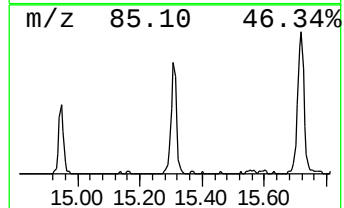
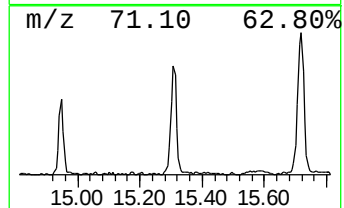
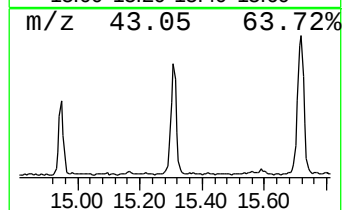
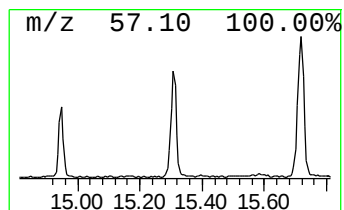
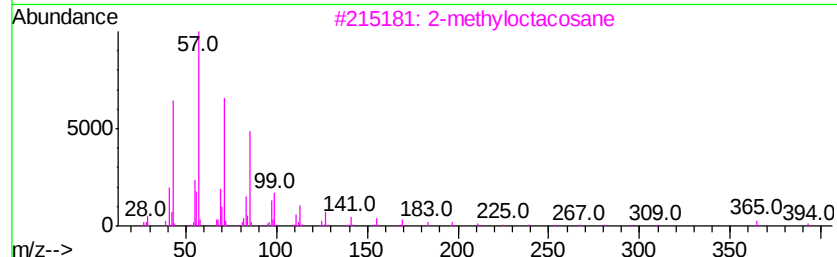
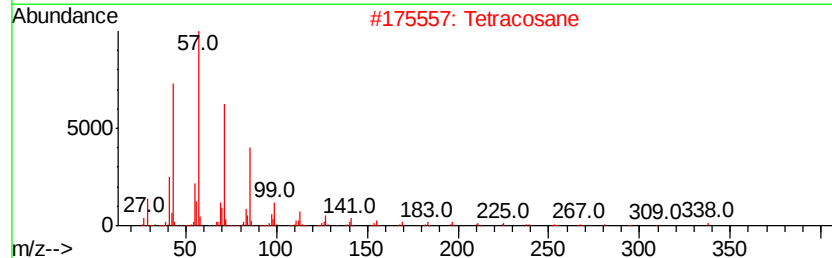
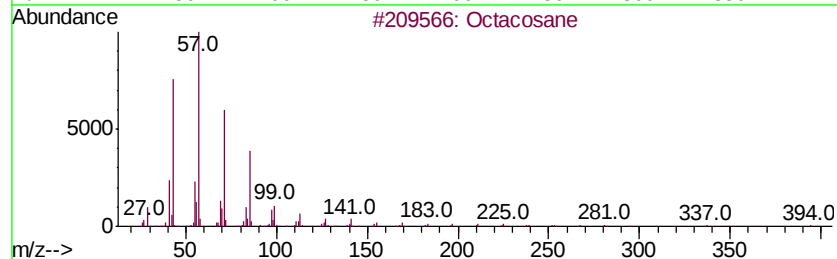
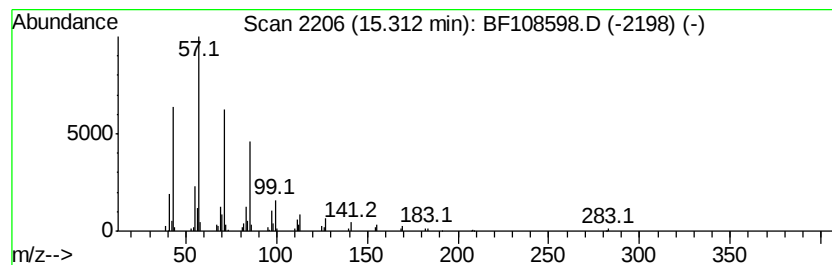
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Octacosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.31 | 4.52 ng | 206776 | Perylene-d12     | 15.75 |

| 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    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 4    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 90   |
| 5    |    | Eicosane, 7-hexyl- | 366 | C26H54  | 055333-99-8  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

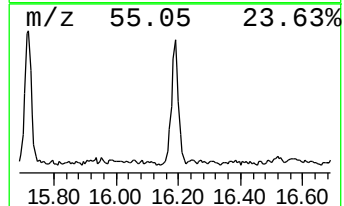
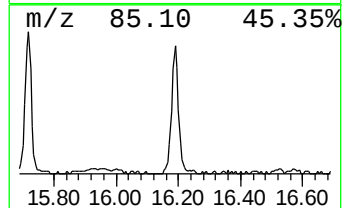
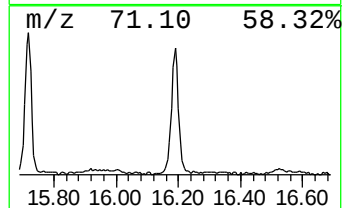
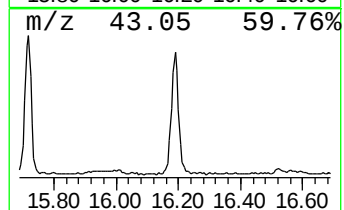
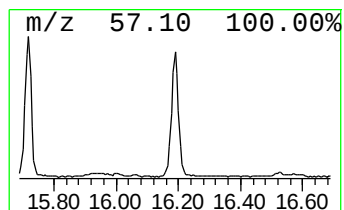
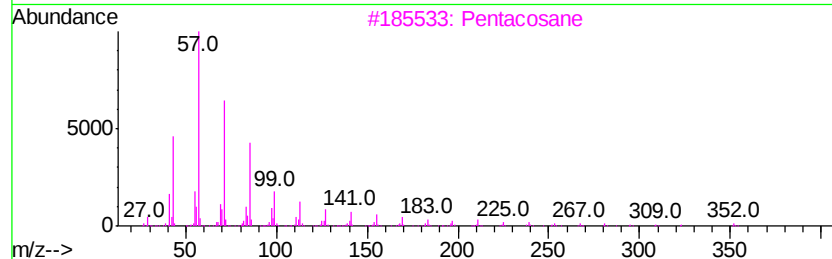
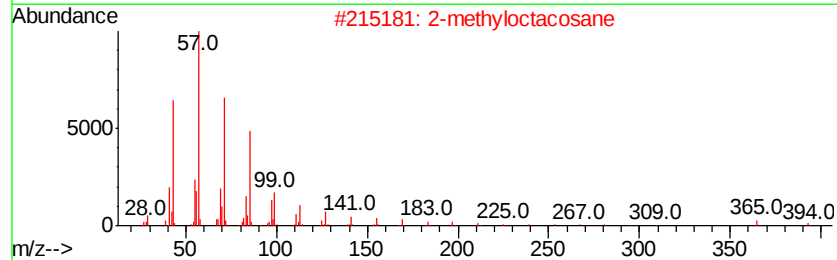
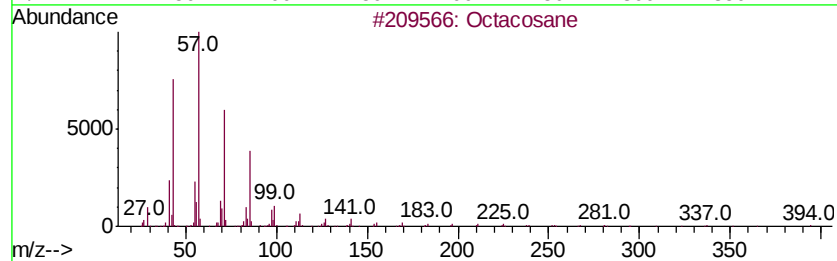
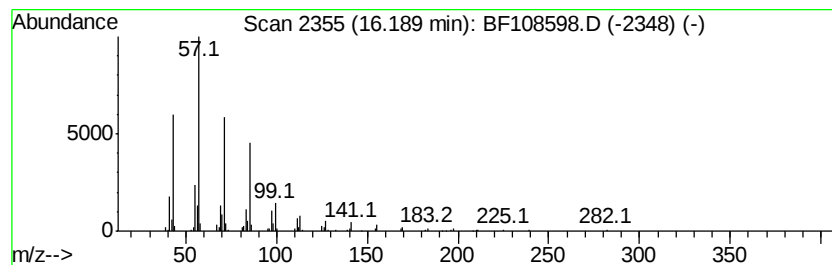
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 2-methyloctacosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.19 | 6.71 ng | 306933 | Perylene-d12     | 15.75 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Octacosane            | 394 | C28H58  | 000630-02-4  | 91   |
| 2    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 90   |
| 3    |    | Pentacosane           | 352 | C25H52  | 000629-99-2  | 90   |
| 4    |    | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7  | 90   |
| 5    |    | Hentriacontane        | 437 | C31H64  | 000630-04-6  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

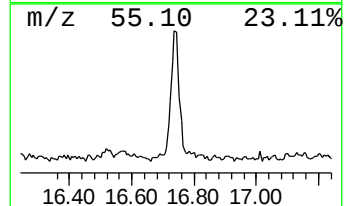
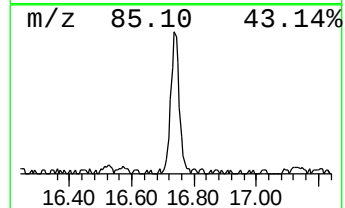
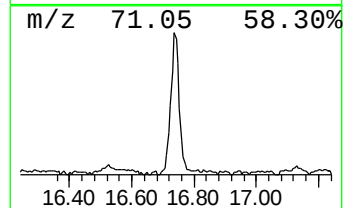
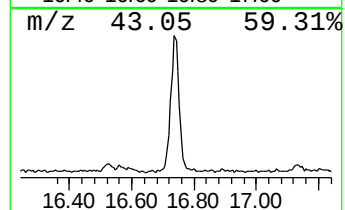
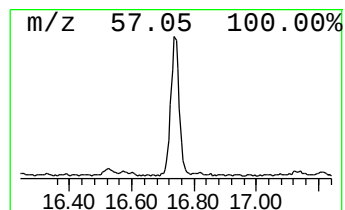
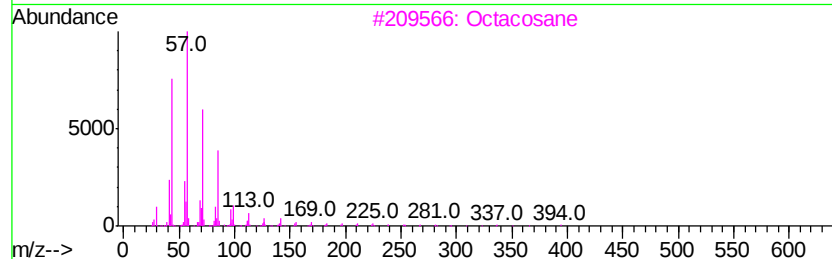
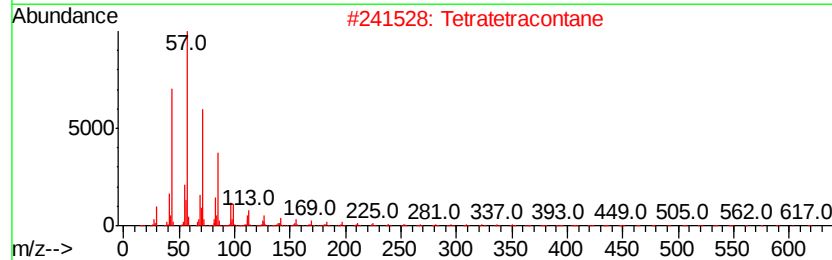
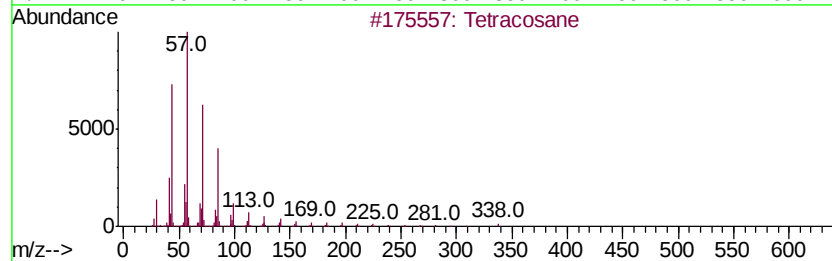
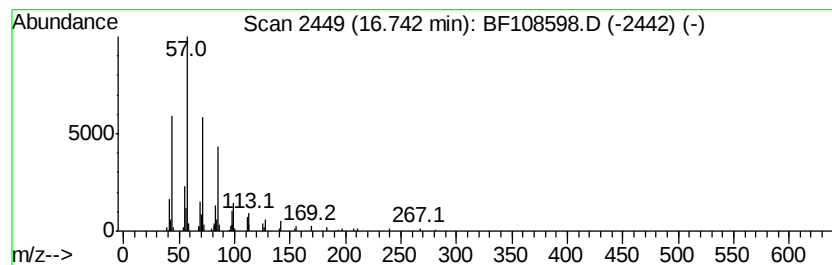
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.74 | 5.44 ng | 248907 | Perylene-d12     | 15.75 |

| Hit# of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------|-----|---------|-------------|------|
| 1       |   | Tetracosane       | 338 | C24H50  | 000646-31-1 | 91   |
| 2       |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 91   |
| 3       |   | Octacosane        | 394 | C28H58  | 000630-02-4 | 91   |
| 4       |   | Hentriacontane    | 437 | C31H64  | 000630-04-6 | 91   |
| 5       |   | Hexacosane        | 366 | C26H54  | 000630-01-3 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

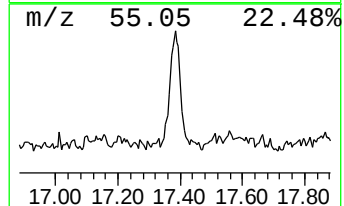
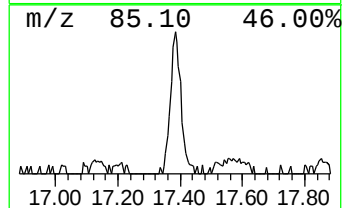
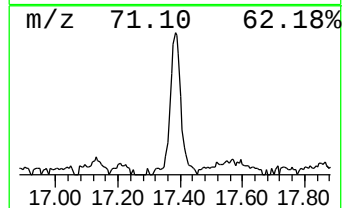
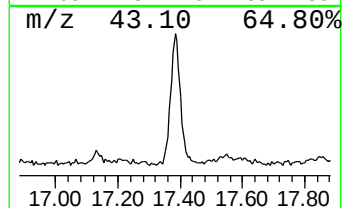
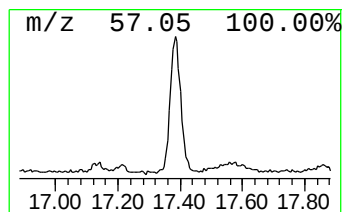
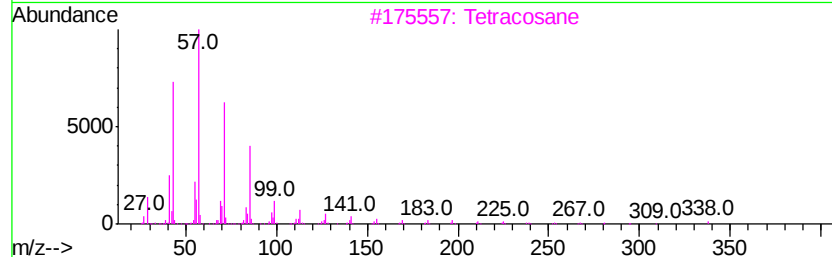
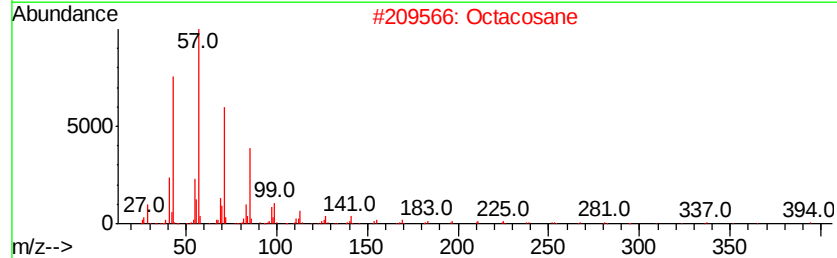
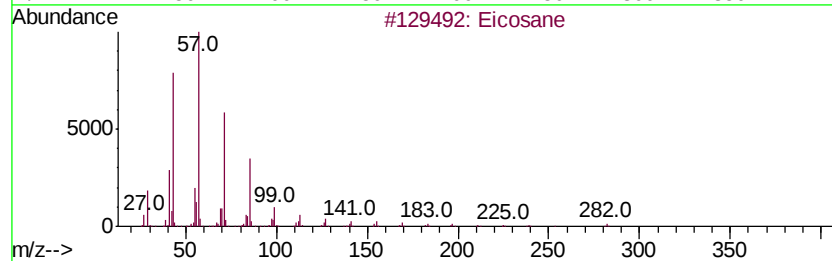
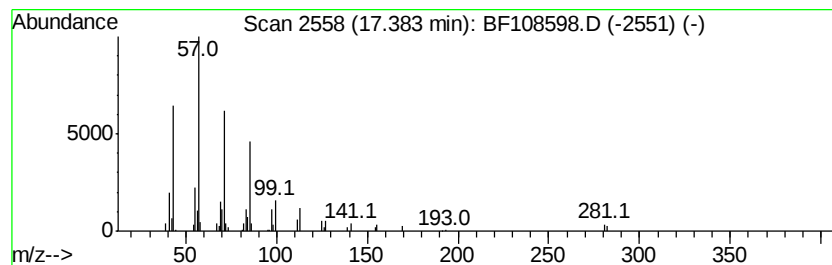
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Eicosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.38 | 3.30 ng | 150966 | Perylene-d12     | 15.75 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 93   |
| 2    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Tetracosane           | 338 | C24H50  | 000646-31-1 | 90   |
| 4    |    | Heptadecane           | 240 | C17H36  | 000629-78-7 | 90   |
| 5    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

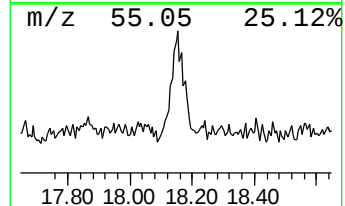
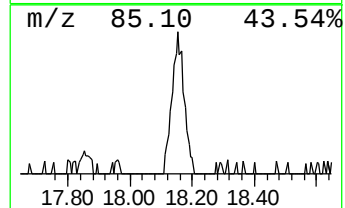
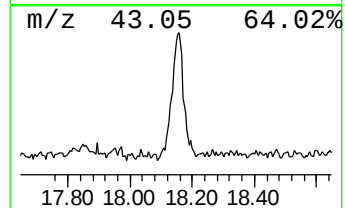
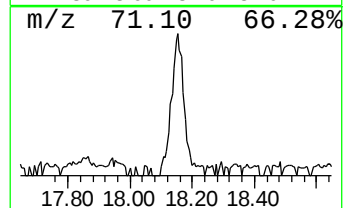
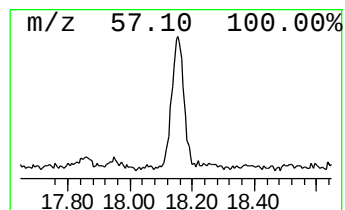
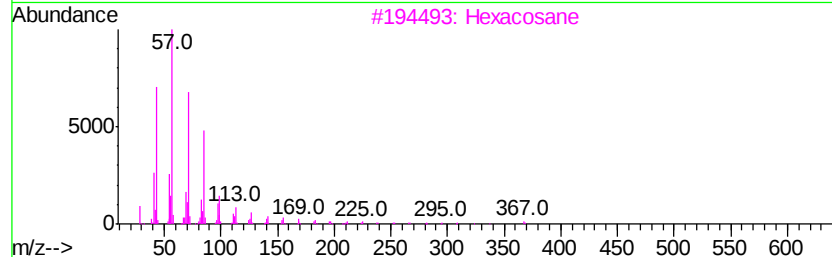
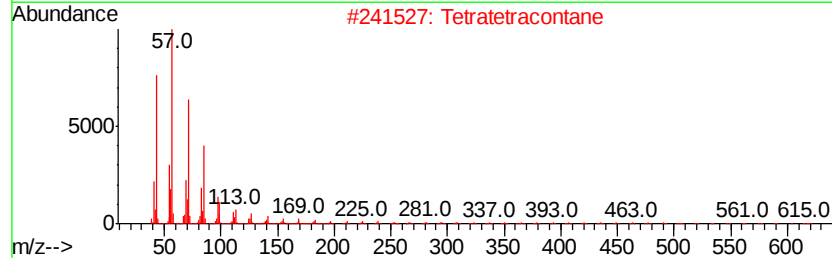
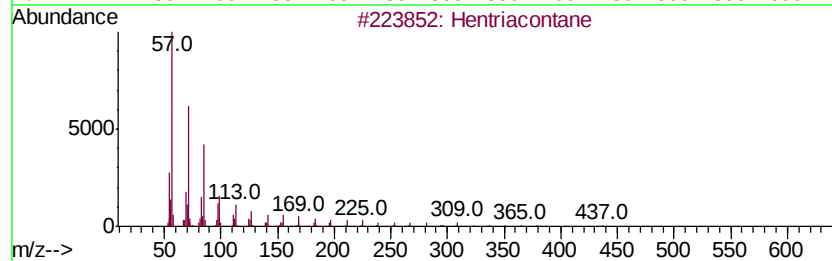
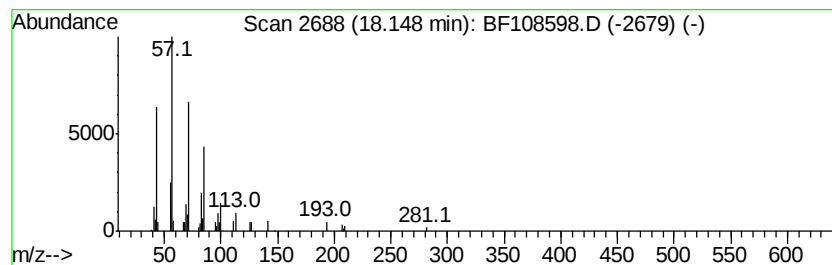
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Hentriacontane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.15 | 2.64 ng | 120894 | Perylene-d12     | 15.75 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | Hentriacontane     |              | 437 | C31H64  | 000630-04-6  | 90   |
| 2       | Tetratetracontane  |              | 619 | C44H90  | 007098-22-8  | 87   |
| 3       | Hexacosane         |              | 366 | C26H54  | 000630-01-3  | 87   |
| 4       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 87   |
| 5       | Octacosane         |              | 394 | C28H58  | 000630-02-4  | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082918\  
Data File : BF108598.D  
Acq On : 29 Aug 2018 12:18  
Operator : JU/SJ  
Sample : PB112423BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB112423BL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.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... | 2.43  | 2.5     | ng    | 107374   | 1                     | 7.00  | 869286 | 20.0 |
| 2-Pentanone, 4-hy... | 5.27  | 2.7     | ng    | 118436   | 1                     | 7.00  | 869286 | 20.0 |
| unknown6.77          | 6.77  | 89.4    | ng    | 3883760  | 1                     | 7.00  | 869286 | 20.0 |
| Octacosane           | 15.31 | 4.5     | ng    | 206776   | 6                     | 15.75 | 914940 | 20.0 |
| 2-methyloctacosane   | 16.19 | 6.7     | ng    | 306933   | 6                     | 15.75 | 914940 | 20.0 |
| Tetracosane          | 16.74 | 5.4     | ng    | 248907   | 6                     | 15.75 | 914940 | 20.0 |
| Eicosane             | 17.38 | 3.3     | ng    | 150966   | 6                     | 15.75 | 914940 | 20.0 |
| Hentriacontane       | 18.15 | 2.6     | ng    | 120894   | 6                     | 15.75 | 914940 | 20.0 |