

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022619\  
 Data File : BM018930.D  
 Acq On : 26 Feb 2019 15:33  
 Operator : JU/SJ  
 Sample : K1592-03  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-4

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\_M\METHODS\8270-BM021119.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         | 5.287       | 368           | 374         | 387          | rBV      | 3359657        | 4735793       | 66.57%          | 8.212%        |
| 2         | 6.869       | 635           | 643         | 661          | rBV      | 3132330        | 5106743       | 71.78%          | 8.856%        |
| 3         | 7.228       | 696           | 704         | 719          | rBV      | 3319067        | 5219507       | 73.36%          | 9.051%        |
| 4         | 7.692       | 777           | 783         | 792          | rBV      | 834640         | 1296893       | 18.23%          | 2.249%        |
| 5         | 8.010       | 829           | 837         | 847          | rBV      | 2326165        | 3660821       | 51.46%          | 6.348%        |
| 6         | 8.863       | 974           | 982         | 997          | rBV      | 1689557        | 2981299       | 41.90%          | 5.170%        |
| 7         | 10.481      | 1251          | 1257        | 1271         | rVB      | 987439         | 1613118       | 22.67%          | 2.797%        |
| 8         | 12.957      | 1671          | 1678        | 1693         | rBV      | 3416001        | 5115212       | 71.90%          | 8.870%        |
| 9         | 13.810      | 1817          | 1823        | 1835         | rVB      | 188761         | 308506        | 4.34%           | 0.535%        |
| 10        | 14.345      | 1908          | 1914        | 1922         | rBV2     | 1255560        | 1900717       | 26.72%          | 3.296%        |
| 11        | 15.839      | 2162          | 2168        | 2185         | rBV      | 2973407        | 4281068       | 60.17%          | 7.424%        |
| 12        | 17.098      | 2376          | 2382        | 2387         | rBV      | 1544752        | 2225631       | 31.28%          | 3.859%        |
| 13        | 17.857      | 2507          | 2511        | 2515         | rBV2     | 58252          | 89685         | 1.26%           | 0.156%        |
| 14        | 17.986      | 2528          | 2533        | 2543         | rBV      | 507049         | 851983        | 11.98%          | 1.477%        |
| 15        | 19.162      | 2728          | 2733        | 2738         | rVB      | 72973          | 122317        | 1.72%           | 0.212%        |
| 16        | 19.274      | 2748          | 2752        | 2760         | rBV      | 122296         | 201900        | 2.84%           | 0.350%        |
| 17        | 19.527      | 2792          | 2795        | 2803         | rVB      | 82859          | 134809        | 1.89%           | 0.234%        |
| 18        | 19.733      | 2824          | 2830        | 2835         | rBV      | 5655364        | 7114467       | 100.00%         | 12.337%       |
| 19        | 20.027      | 2878          | 2880        | 2885         | rVB2     | 73045          | 81357         | 1.14%           | 0.141%        |
| 20        | 20.992      | 3041          | 3044        | 3050         | rBV      | 339466         | 441780        | 6.21%           | 0.766%        |
| 21        | 21.292      | 3090          | 3095        | 3099         | rBV      | 2309031        | 2868230       | 40.32%          | 4.974%        |
| 22        | 21.862      | 3189          | 3192        | 3196         | rBV      | 341629         | 353789        | 4.97%           | 0.614%        |
| 23        | 22.327      | 3267          | 3271        | 3279         | rVB      | 517879         | 723504        | 10.17%          | 1.255%        |
| 24        | 22.833      | 3353          | 3357        | 3363         | rVB      | 544938         | 787592        | 11.07%          | 1.366%        |
| 25        | 23.397      | 3449          | 3453        | 3458         | rBV      | 630999         | 1006831       | 14.15%          | 1.746%        |
| 26        | 23.544      | 3473          | 3478        | 3491         | rVB2     | 1578278        | 3119349       | 43.85%          | 5.409%        |
| 27        | 24.050      | 3559          | 3564        | 3575         | rVB      | 698158         | 1323977       | 18.61%          | 2.296%        |

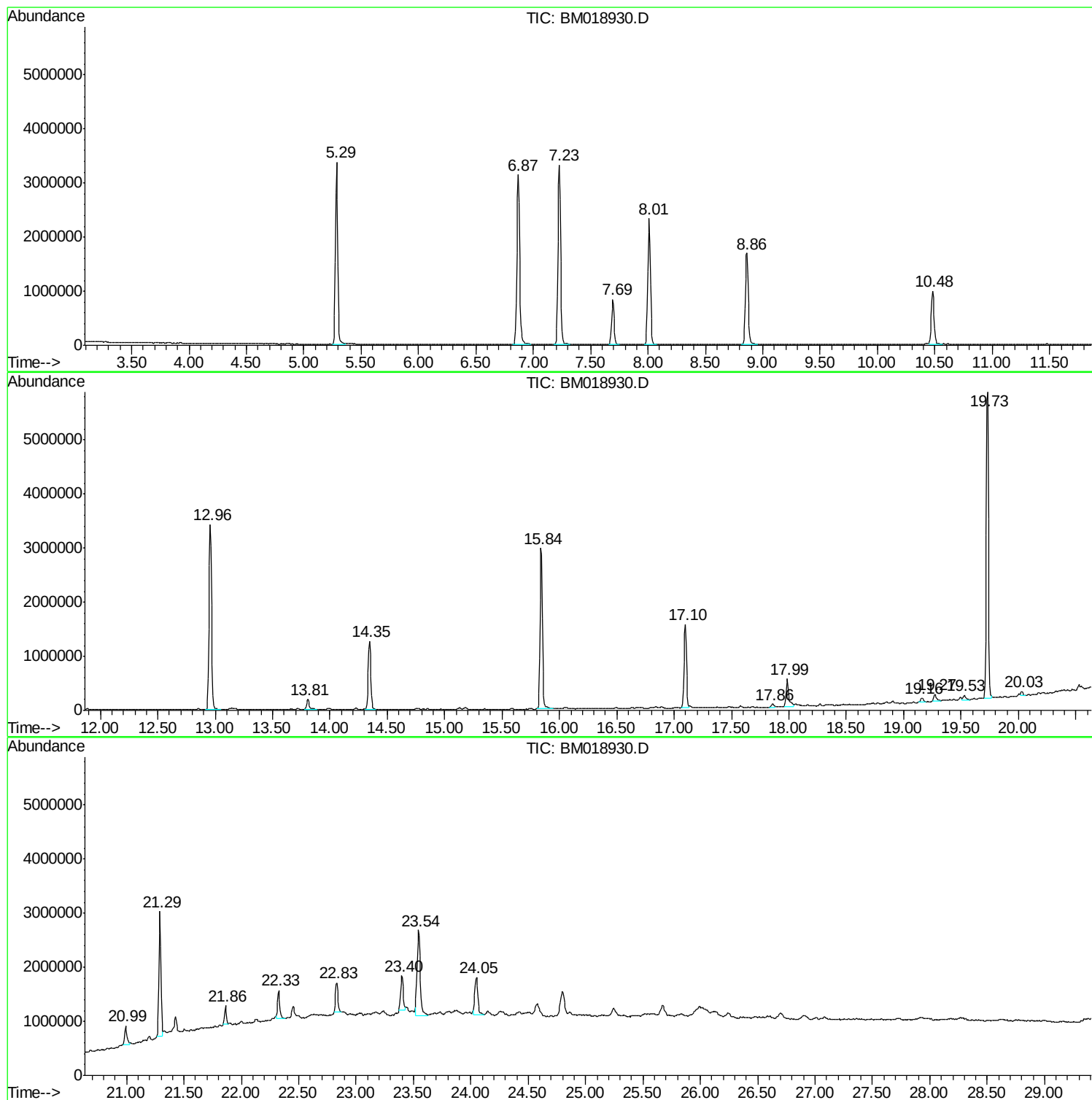
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BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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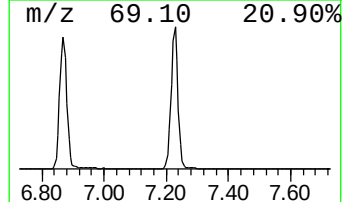
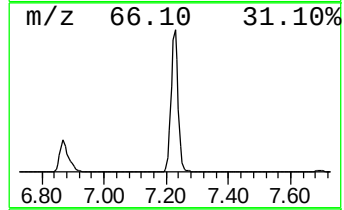
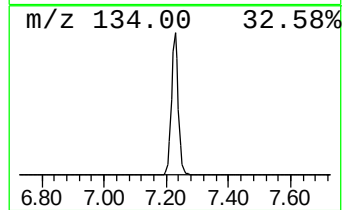
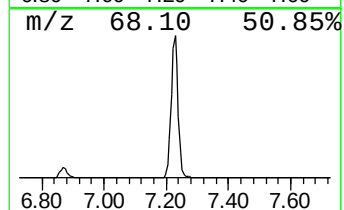
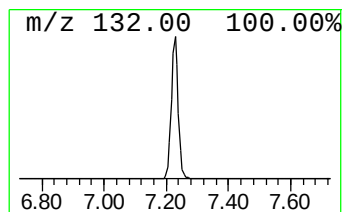
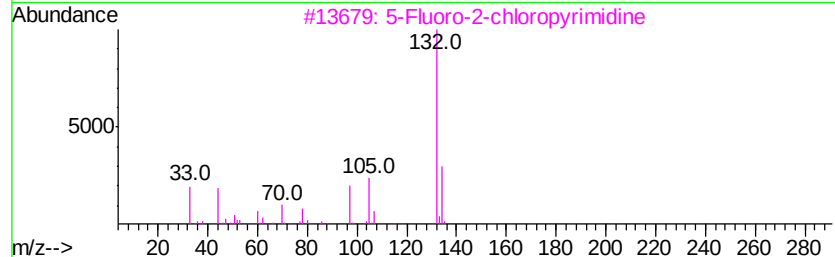
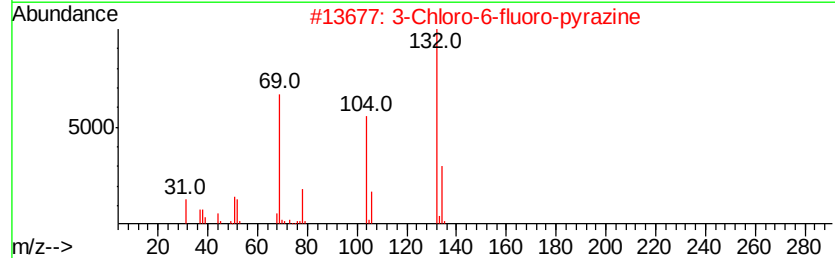
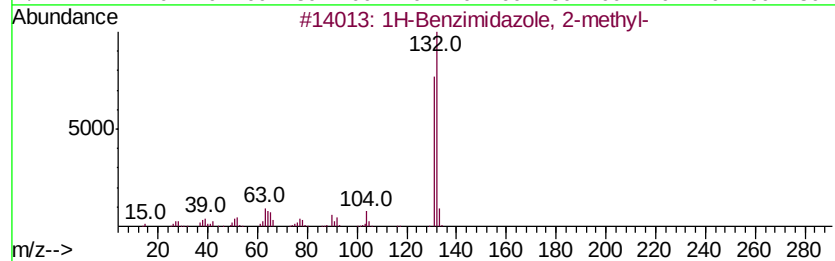
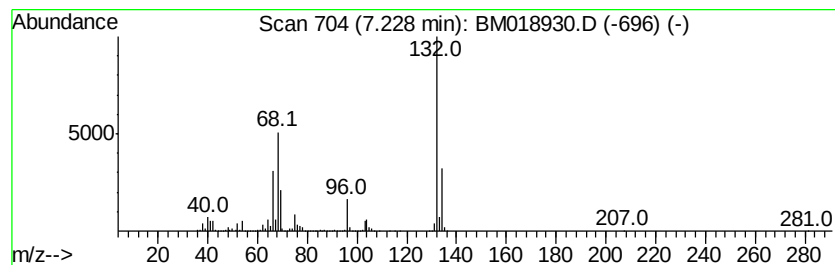
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.23 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.23 | 80.49 ng | 5219510 | 1,4-Dichlorobenzene-d4 | 7.69 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |



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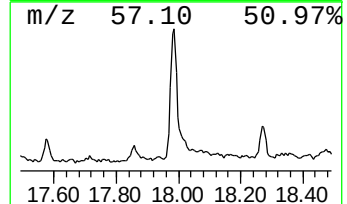
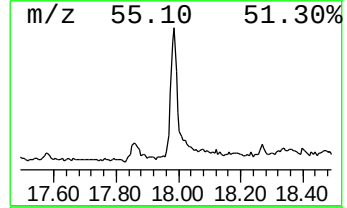
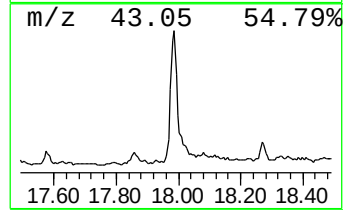
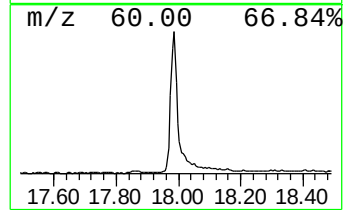
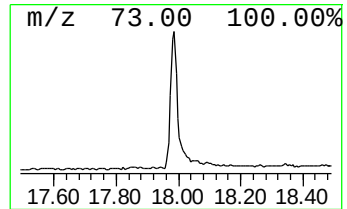
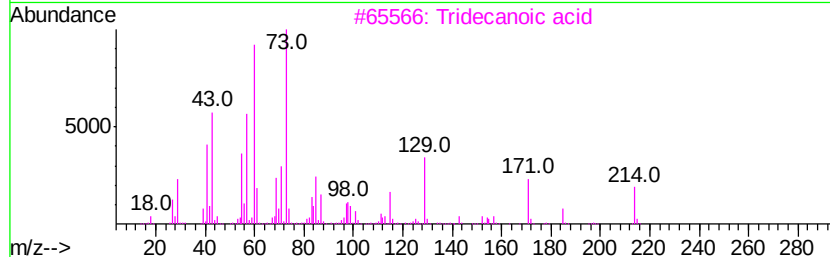
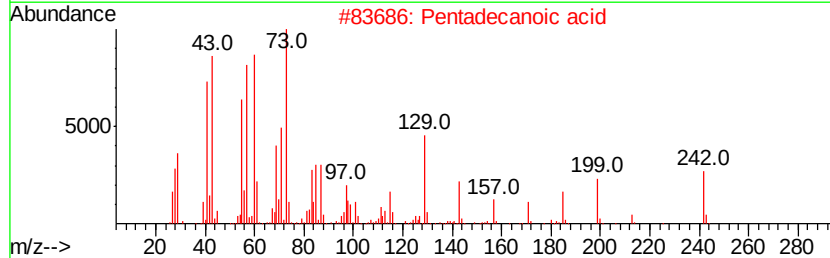
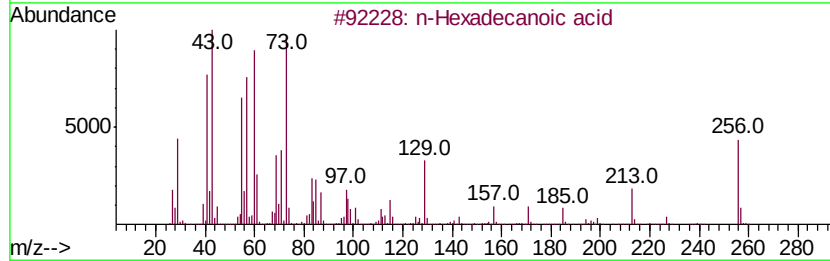
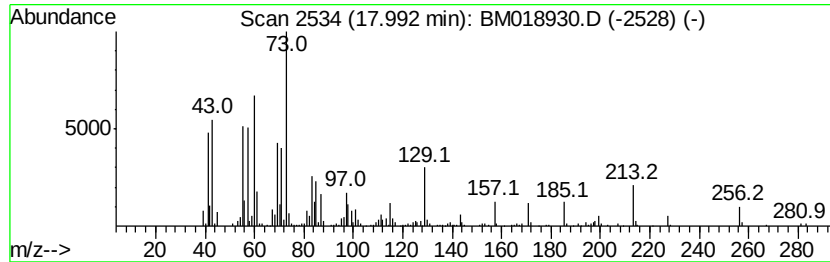
Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 17.99     | 7.66 ng             | 851983 | Phenanthrene-d10 | 17.10       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 98   |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 83   |
| 3         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 58   |
| 4         | Tridecane           | 184    | C13H28           | 000629-50-5 | 18   |
| 5         | Eicosane            | 282    | C20H42           | 000112-95-8 | 18   |



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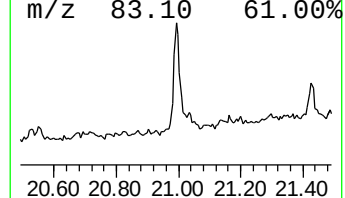
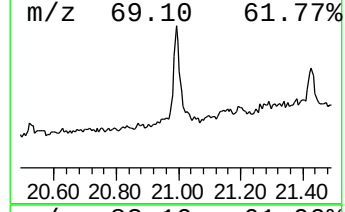
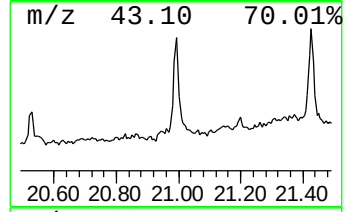
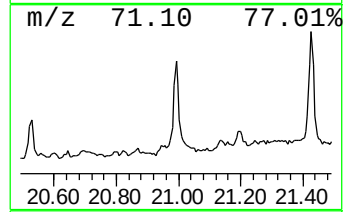
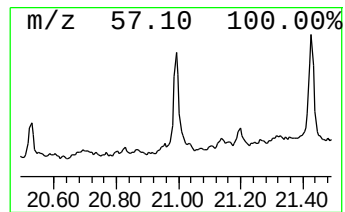
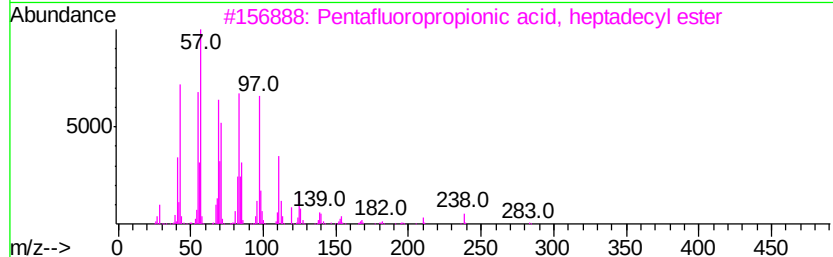
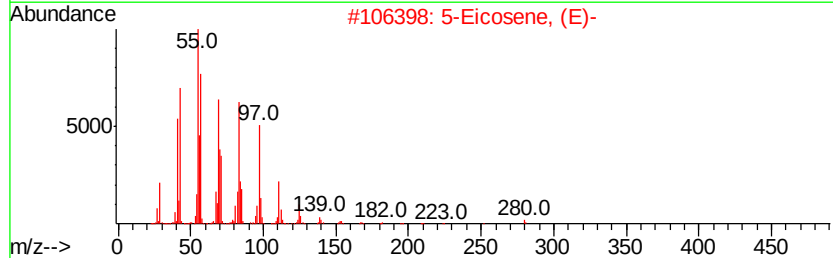
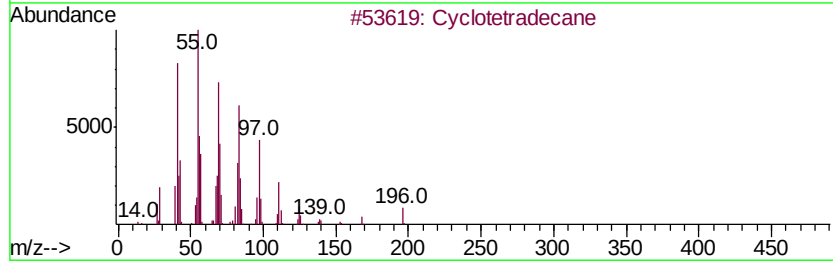
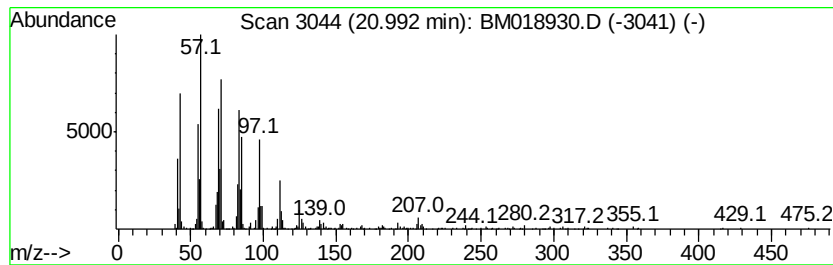
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Cyclotetradecane Concentration Rank 8

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 20.99     | 3.08 ng                             | 441780 | Chrysene-d12     | 21.29        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cyclotetradecane                    | 196    | C14H28           | 000295-17-0  | 90   |
| 2         | 5-Eicosene, (E)-                    | 280    | C20H40           | 074685-30-6  | 83   |
| 3         | Pentafluoropropionic acid, hepta... | 402    | C20H35F5O2       | 1000283-04-2 | 76   |
| 4         | Heptafluorobutanoic acid, heptad... | 452    | C21H35F7O2       | 1000282-97-3 | 76   |
| 5         | Ethanol, 2-(tetradecyloxy)-         | 258    | C16H34O2         | 002136-70-1  | 76   |



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BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

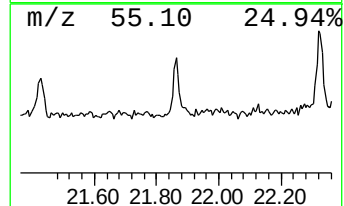
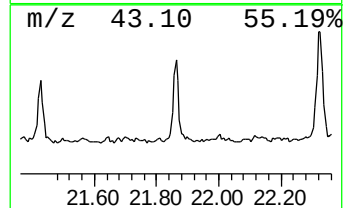
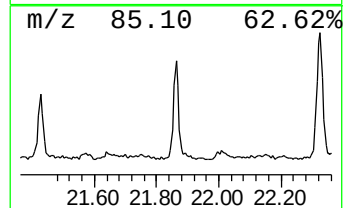
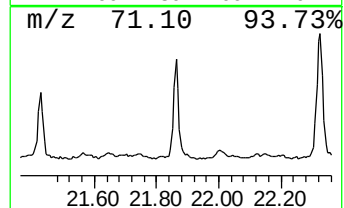
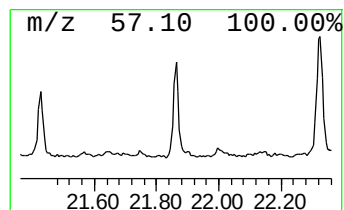
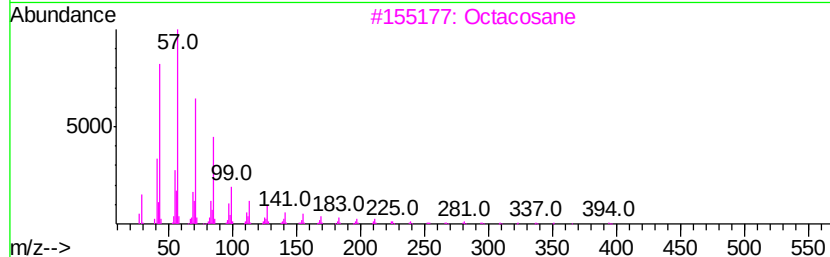
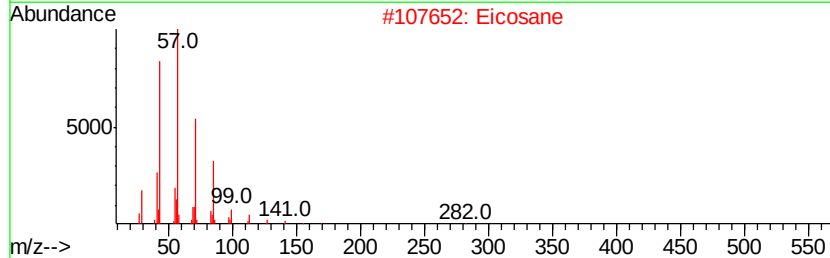
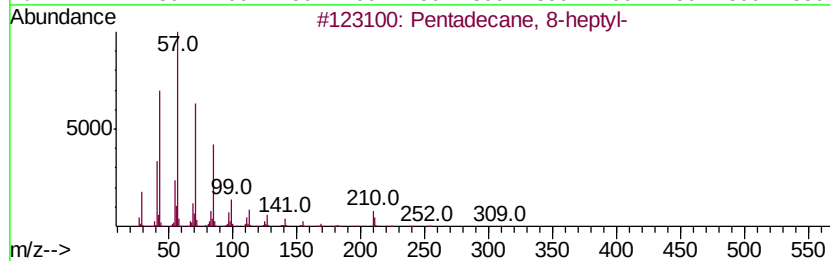
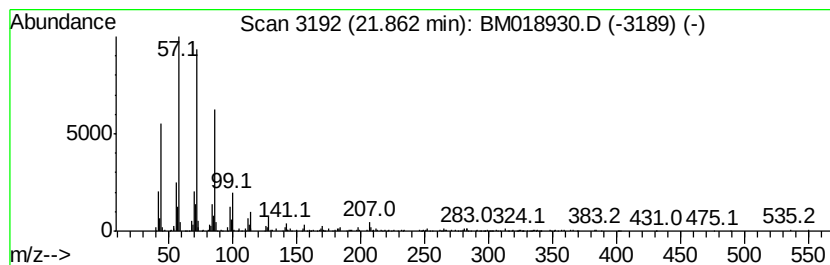
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Pentadecane, 8-heptyl- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.86 | 2.47 ng | 353789 | Chrysene-d12     | 21.29 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | Pentadecane, 8-heptyl-              | 310 | C22H46    | 071005-15-7  | 90   |
| 2       |   | Eicosane                            | 282 | C20H42    | 000112-95-8  | 89   |
| 3       |   | Octacosane                          | 394 | C28H58    | 000630-02-4  | 86   |
| 4       |   | 2-Thiopheneacetic acid, 4-tetrad... | 338 | C20H34O2S | 1000280-67-0 | 86   |
| 5       |   | Tetradecane                         | 198 | C14H30    | 000629-59-4  | 86   |



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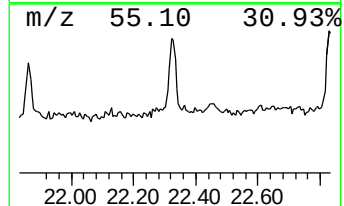
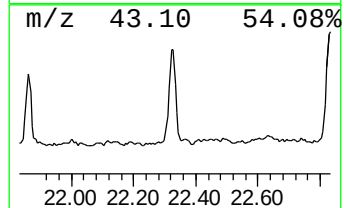
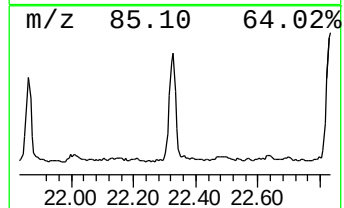
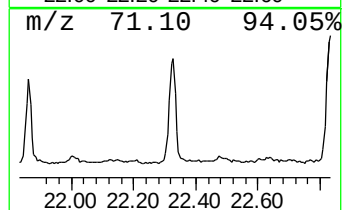
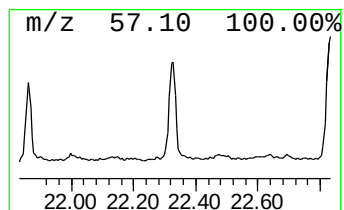
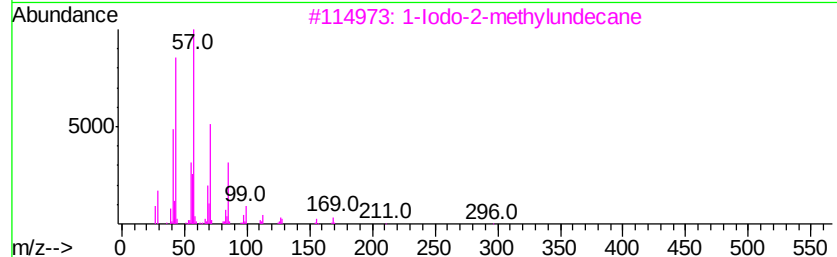
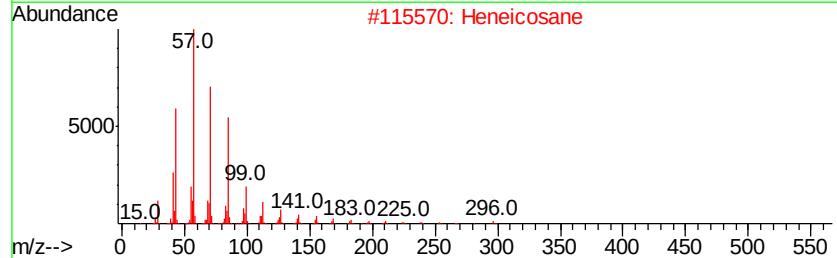
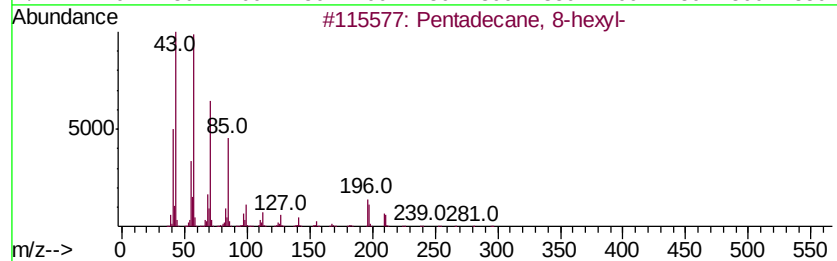
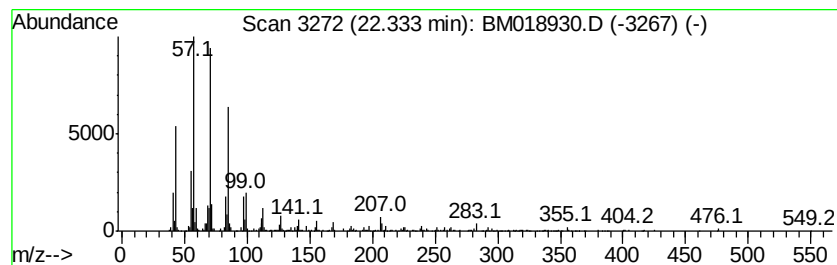
Instrument :  
BNA\_M  
ClientSampleId :  
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TIC Library : C:\DATABASE\NIST02.L  
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\*\*\*\*\*  
Peak Number 6 Pentadecane, 8-hexyl- Concentration Rank 7

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 22.33   | 5.04 ng | 723504                  | Chrysene-d12     | 21.29          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | Pentadecane, 8-hexyl-   | 296 C21H44       | 013475-75-7 93 |
| 2       |         | Heneicosane             | 296 C21H44       | 000629-94-7 92 |
| 3       |         | 1-Iodo-2-methylundecane | 296 C12H25I      | 073105-67-6 90 |
| 4       |         | Nonacosane              | 408 C29H60       | 000630-03-5 87 |
| 5       |         | Eicosane, 10-methyl-    | 296 C21H44       | 054833-23-7 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022619\  
Data File : BM018930.D  
Acq On : 26 Feb 2019 15:33  
Operator : JU/SJ  
Sample : K1592-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

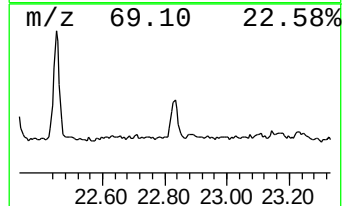
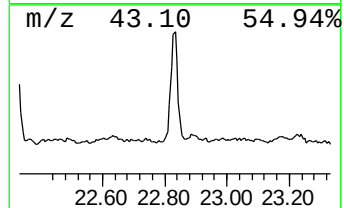
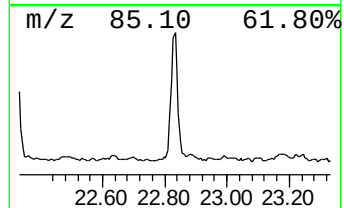
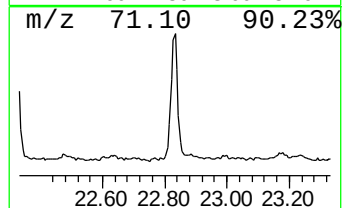
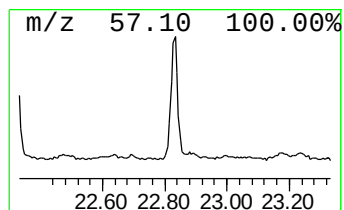
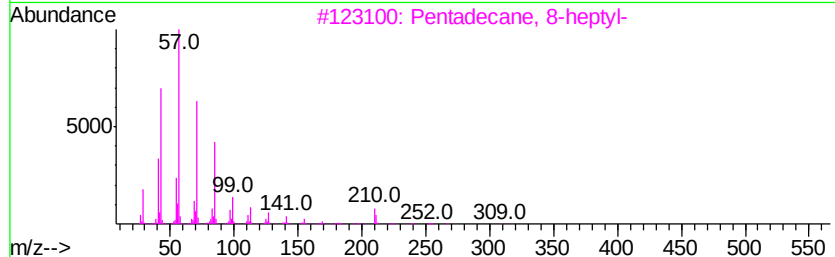
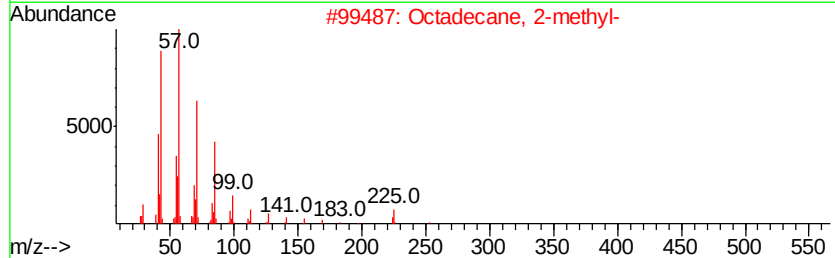
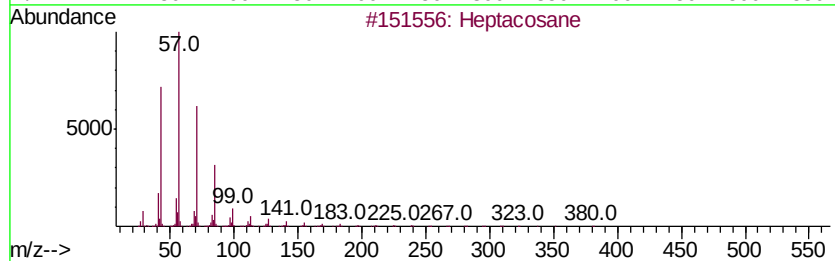
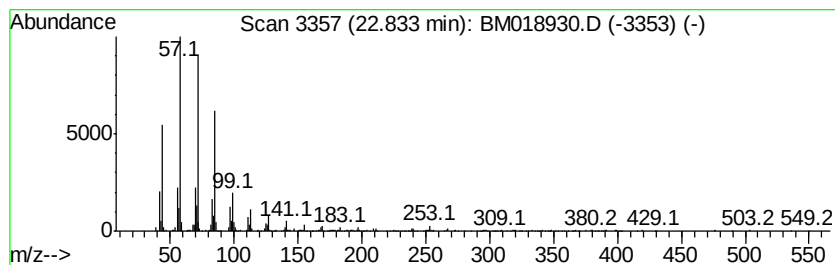
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ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heptacosane Concentration Rank 6

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 22.83     | 5.05 ng                             | 787592 | Perylene-d12     | 23.54       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Heptacosane                         | 380    | C27H56           | 000593-49-7 | 93   |
| 2         | Octadecane, 2-methyl-               | 268    | C19H40           | 001560-88-9 | 90   |
| 3         | Pentadecane, 8-heptyl-              | 310    | C22H46           | 071005-15-7 | 90   |
| 4         | Tetracosane                         | 338    | C24H50           | 000646-31-1 | 86   |
| 5         | Heptadecane, 2,6,10,14-tetramethyl- | 296    | C21H44           | 018344-37-1 | 83   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022619\  
Data File : BM018930.D  
Acq On : 26 Feb 2019 15:33  
Operator : JU/SJ  
Sample : K1592-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

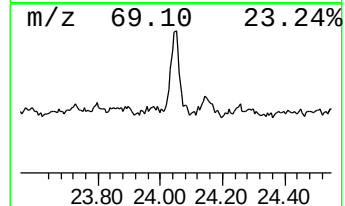
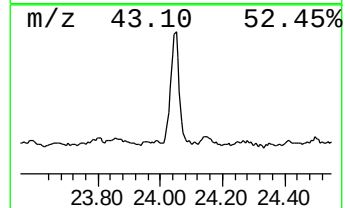
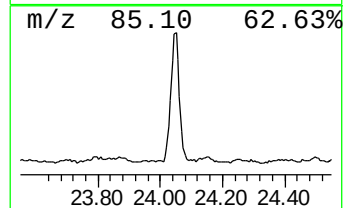
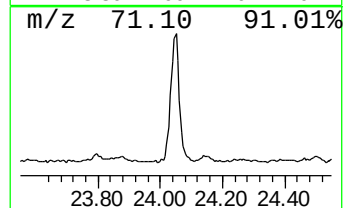
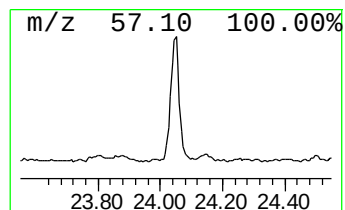
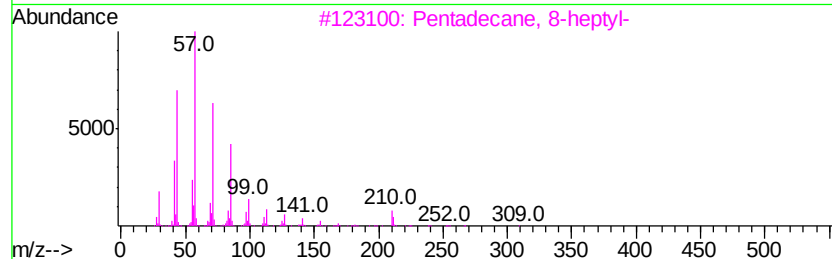
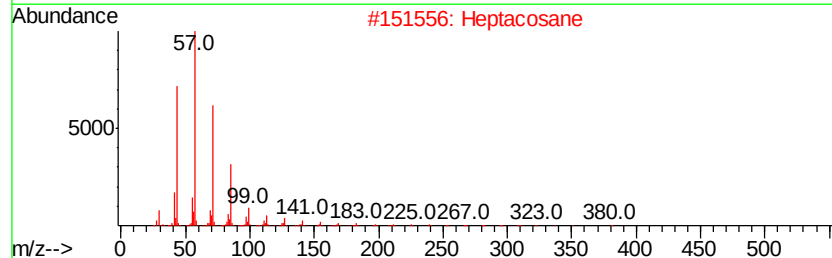
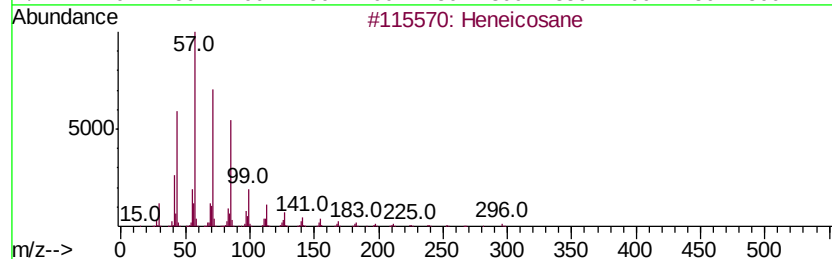
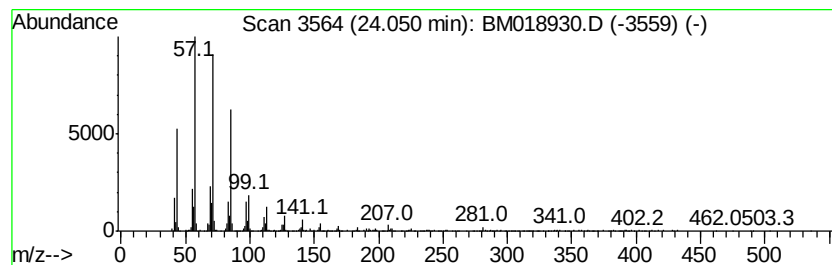
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heneicosane Concentration Rank 3

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 24.05 | 8.49 ng | 1323980 | Perylene-d12     | 23.54 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane            |              | 296 | C21H44  | 000629-94-7 | 91   |
| 2       | Heptacosane            |              | 380 | C27H56  | 000593-49-7 | 91   |
| 3       | Pentadecane, 8-heptyl- |              | 310 | C22H46  | 071005-15-7 | 90   |
| 4       | Nonadecane             |              | 268 | C19H40  | 000629-92-5 | 86   |
| 5       | Octadecane, 1-iodo-    |              | 380 | C18H37I | 000629-93-6 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM022619\  
Data File : BM018930.D  
Acq On : 26 Feb 2019 15:33  
Operator : JU/SJ  
Sample : K1592-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown7.23          | 7.23  | 80.5    | ng    | 5219510  | 1                     | 7.69  | 1296890 | 20.0 |
| n-Hexadecanoic acid  | 17.99 | 7.7     | ng    | 851983   | 4                     | 17.10 | 2225630 | 20.0 |
| Cyclotetradecane     | 20.99 | 3.1     | ng    | 441780   | 5                     | 21.29 | 2868230 | 20.0 |
| Pentadecane, 8-he... | 21.86 | 2.5     | ng    | 353789   | 5                     | 21.29 | 2868230 | 20.0 |
| Pentadecane, 8-he... | 22.33 | 5.0     | ng    | 723504   | 5                     | 21.29 | 2868230 | 20.0 |
| Heptacosane          | 22.83 | 5.0     | ng    | 787592   | 6                     | 23.54 | 3119350 | 20.0 |
| Heneicosane          | 24.05 | 8.5     | ng    | 1323980  | 6                     | 23.54 | 3119350 | 20.0 |