

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042720\  
 Data File : BF120223.D  
 Acq On : 27 Apr 2020 17:11  
 Operator : MA/SJ  
 Sample : L2409-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RBR-200055

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\_F\METHODS\8270-BF040820.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         | 5.269       | 538           | 541         | 559          | rBV      | 1942551        | 1903515       | 74.16%          | 9.122%        |
| 2         | 6.310       | 714           | 718         | 735          | rBV      | 2256115        | 2115973       | 82.44%          | 10.140%       |
| 3         | 6.498       | 747           | 750         | 757          | rBV      | 61856          | 63169         | 2.46%           | 0.303%        |
| 4         | 6.663       | 774           | 778         | 781          | rBV      | 908823         | 741400        | 28.88%          | 3.553%        |
| 5         | 6.816       | 800           | 804         | 808          | rBV      | 2041945        | 1746633       | 68.05%          | 8.370%        |
| 6         | 7.228       | 869           | 874         | 877          | rBV      | 1553410        | 1358407       | 52.92%          | 6.510%        |
| 7         | 7.945       | 992           | 996         | 1005         | rBV      | 1170162        | 959592        | 37.38%          | 4.599%        |
| 8         | 9.027       | 1175          | 1180        | 1183         | rBV      | 2918446        | 2566817       | 100.00%         | 12.301%       |
| 9         | 9.422       | 1243          | 1247        | 1250         | rBV      | 422706         | 329813        | 12.85%          | 1.581%        |
| 10        | 9.698       | 1290          | 1294        | 1298         | rBV      | 1256834        | 1069523       | 41.67%          | 5.126%        |
| 11        | 10.492      | 1424          | 1429        | 1432         | rBV      | 1580607        | 1530839       | 59.64%          | 7.336%        |
| 12        | 11.186      | 1543          | 1547        | 1550         | rBV      | 1182784        | 1089482       | 42.44%          | 5.221%        |
| 13        | 11.721      | 1635          | 1638        | 1648         | rBV2     | 156422         | 168637        | 6.57%           | 0.808%        |
| 14        | 12.392      | 1749          | 1752        | 1755         | rBV      | 36862          | 29142         | 1.14%           | 0.140%        |
| 15        | 12.504      | 1768          | 1771        | 1780         | rBV      | 46562          | 65993         | 2.57%           | 0.316%        |
| 16        | 12.774      | 1812          | 1817        | 1820         | rBV      | 2685787        | 2481771       | 96.69%          | 11.894%       |
| 17        | 13.686      | 1967          | 1972        | 1983         | rBV      | 129789         | 229299        | 8.93%           | 1.099%        |
| 18        | 13.821      | 1991          | 1995        | 1998         | rBV      | 1064778        | 883832        | 34.43%          | 4.236%        |
| 19        | 13.998      | 2020          | 2025        | 2029         | rBV      | 63021          | 61037         | 2.38%           | 0.293%        |
| 20        | 14.304      | 2073          | 2077        | 2079         | rBV      | 74964          | 68513         | 2.67%           | 0.328%        |
| 21        | 14.327      | 2079          | 2081        | 2087         | rVB5     | 26690          | 37571         | 1.46%           | 0.180%        |
| 22        | 14.598      | 2121          | 2127        | 2131         | rVB      | 99742          | 99489         | 3.88%           | 0.477%        |
| 23        | 14.733      | 2145          | 2150        | 2154         | rVB5     | 27483          | 33106         | 1.29%           | 0.159%        |
| 24        | 14.909      | 2176          | 2180        | 2184         | rBV      | 103672         | 105798        | 4.12%           | 0.507%        |
| 25        | 14.962      | 2184          | 2189        | 2195         | rVV7     | 18114          | 38819         | 1.51%           | 0.186%        |
| 26        | 15.227      | 2229          | 2234        | 2237         | rBV      | 701385         | 772134        | 30.08%          | 3.700%        |
| 27        | 15.262      | 2237          | 2240        | 2248         | rVB      | 74490          | 91011         | 3.55%           | 0.436%        |
| 28        | 15.656      | 2302          | 2307        | 2312         | rBV      | 72904          | 105845        | 4.12%           | 0.507%        |
| 29        | 15.739      | 2316          | 2321        | 2324         | rBV6     | 13471          | 30240         | 1.18%           | 0.145%        |
| 30        | 16.121      | 2381          | 2386        | 2391         | rBV3     | 27202          | 47610         | 1.85%           | 0.228%        |
| 31        | 16.656      | 2473          | 2477        | 2483         | rVB3     | 22301          | 41592         | 1.62%           | 0.199%        |

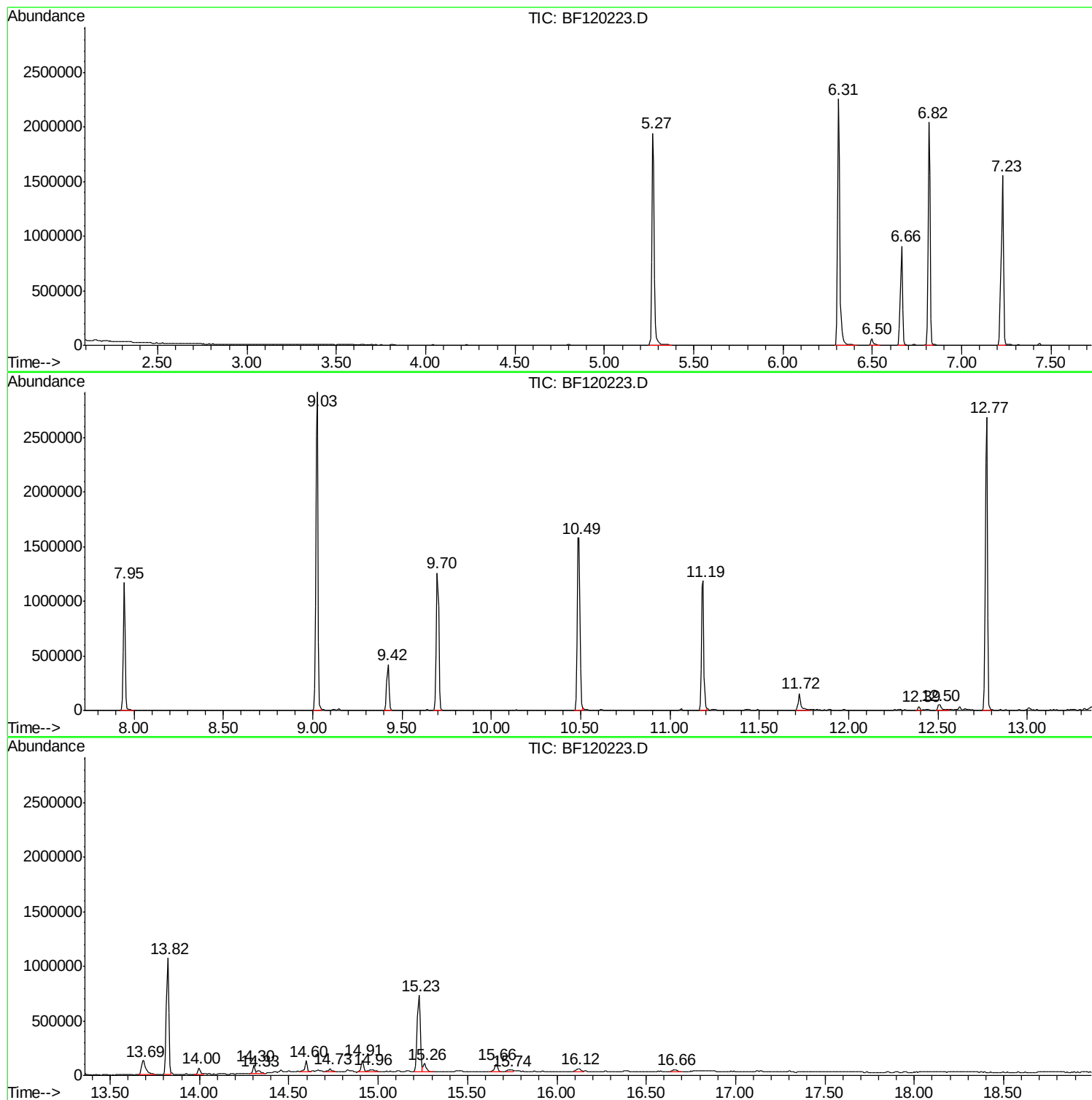
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ClientSampleId :  
RBR-200055

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.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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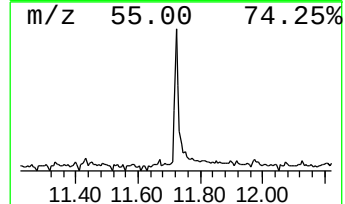
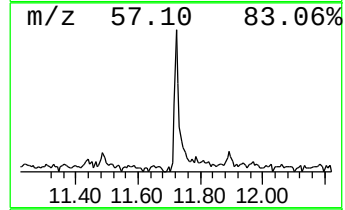
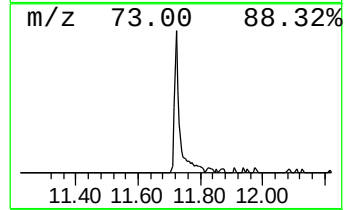
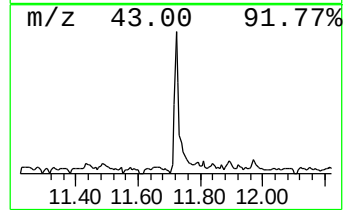
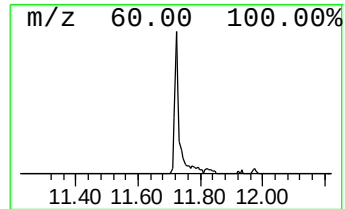
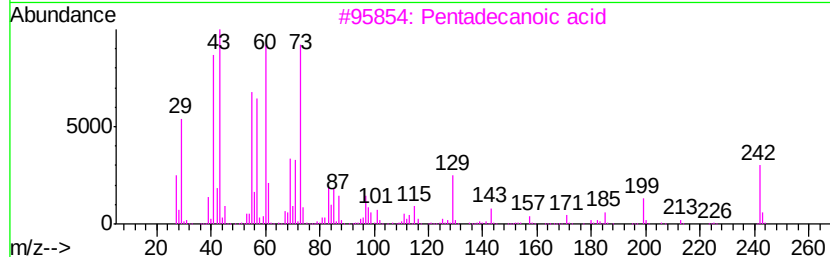
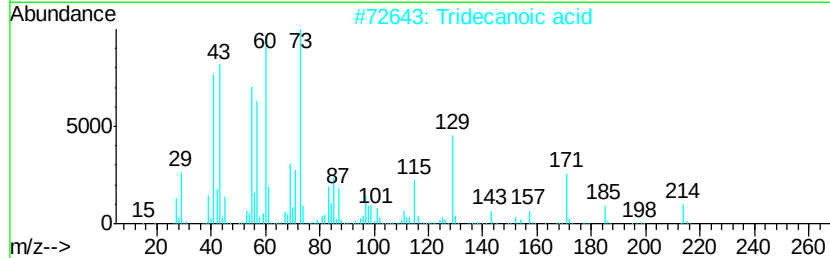
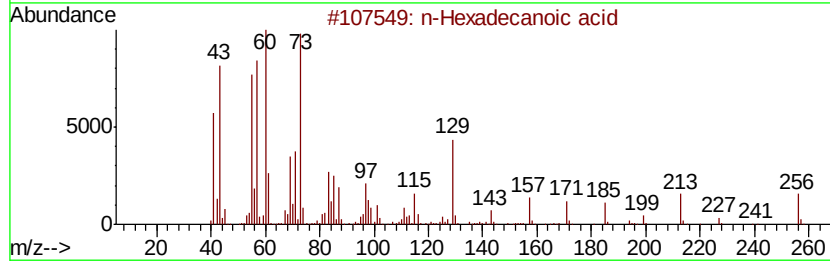
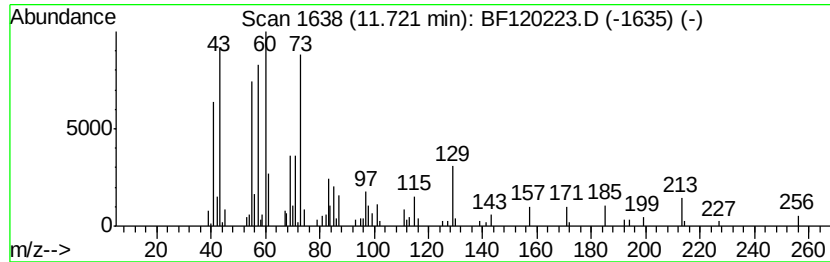
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.72 | 3.10 ng | 168637 | Phenanthrene-d10 | 11.19 |

| Hit# of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|-----------|---------------------|-----|----------|-------------|------|
| 1         | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 94   |
| 2         | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 3         | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 83   |
| 4         | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 5         | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 59   |



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Misc :  
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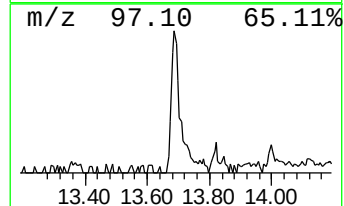
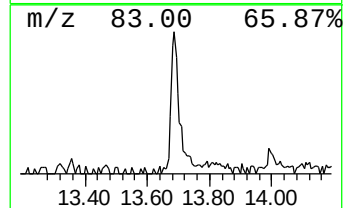
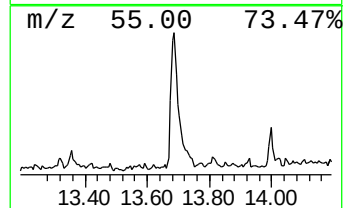
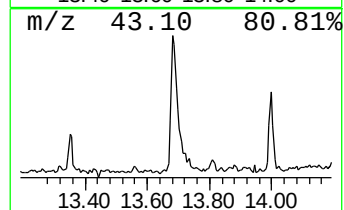
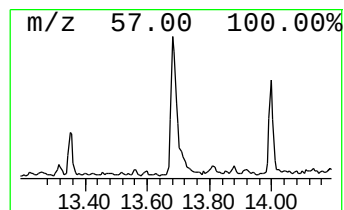
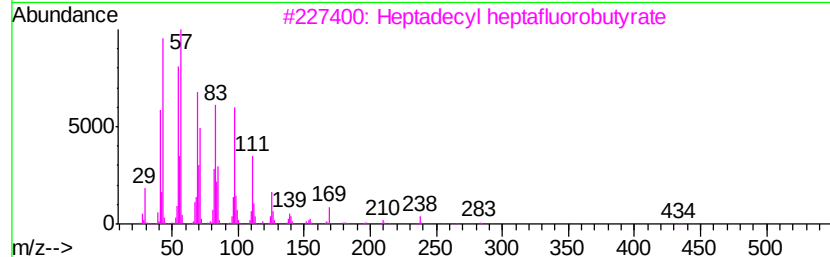
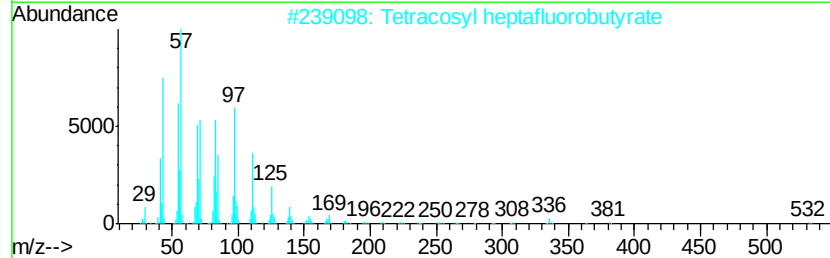
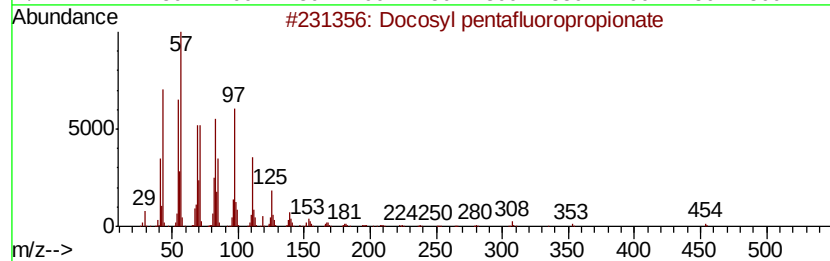
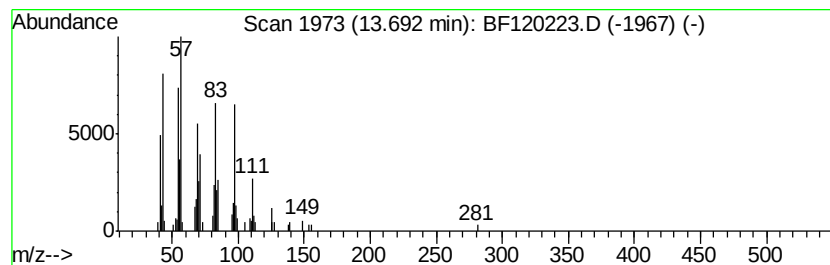
Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Docosyl pentafluoropropionate Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.69     | 5.19 ng                             | 229299 | Chrysene-d12     | 13.82        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Docosyl pentafluoropropionate       | 472    | C25H45F5O2       | 1000351-80-9 | 91   |
| 2         | Tetracosyl heptafluorobutyrate      | 550    | C28H49F7O2       | 1000351-83-7 | 91   |
| 3         | Heptadecyl heptafluorobutyrate      | 452    | C21H35F7O2       | 959085-66-6  | 90   |
| 4         | Pentafluoropropionic acid, hepta... | 402    | C20H35F5O2       | 959218-78-1  | 90   |
| 5         | Octacosyl heptafluorobutyrate       | 606    | C32H57F7O2       | 1000351-83-6 | 90   |



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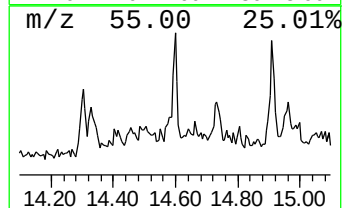
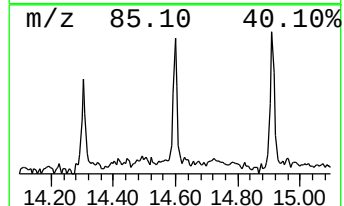
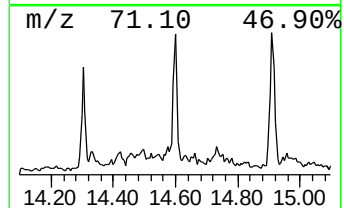
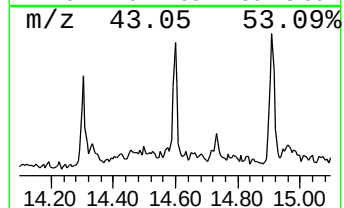
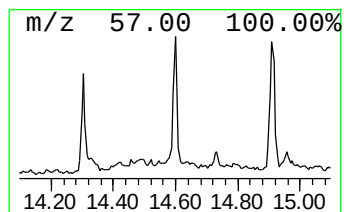
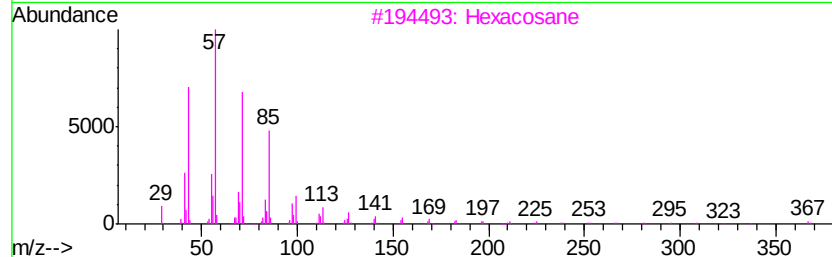
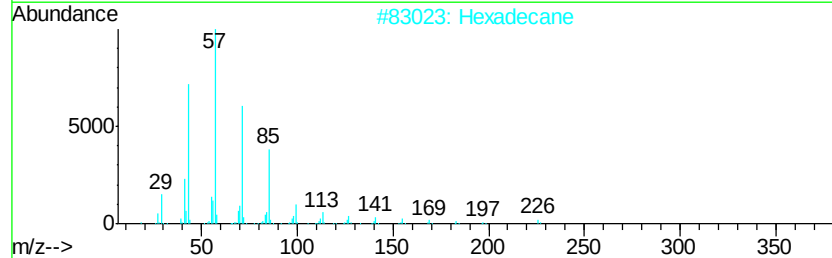
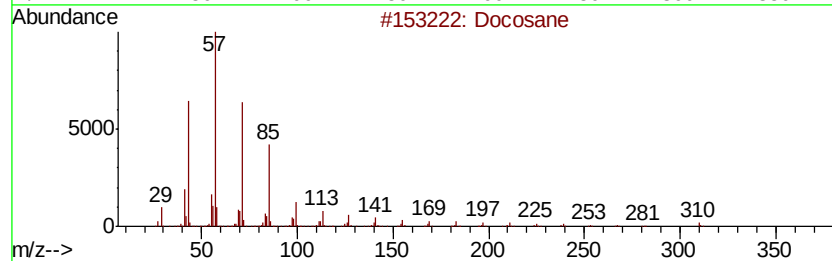
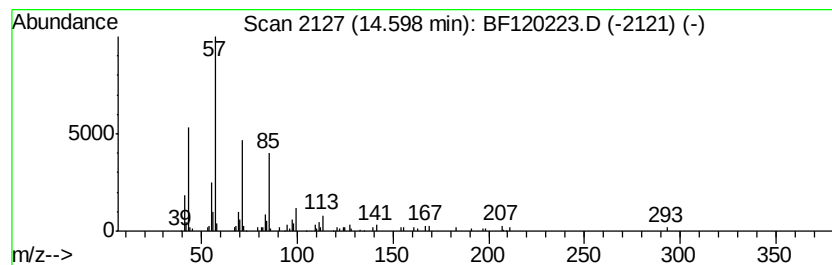
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Docosane Concentration Rank 6

| R.T.      | EstConc         | Area  | Relative to ISTD |             | R.T.  |
|-----------|-----------------|-------|------------------|-------------|-------|
| 14.60     | 2.58 ng         | 99489 | Perylene-d12     |             | 15.23 |
| Hit# of 5 | Tentative ID    | MW    | MolForm          | CAS#        | Qual  |
| 1         | Docosane        | 310   | C22H46           | 000629-97-0 | 86    |
| 2         | Hexadecane      | 226   | C16H34           | 000544-76-3 | 80    |
| 3         | Hexacosane      | 366   | C26H54           | 000630-01-3 | 64    |
| 4         | Hexatriacontane | 507   | C36H74           | 000630-06-8 | 64    |
| 5         | Octacosane      | 394   | C28H58           | 000630-02-4 | 62    |



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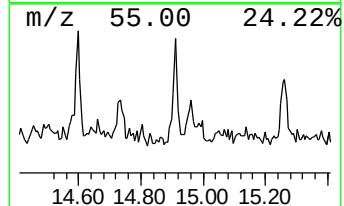
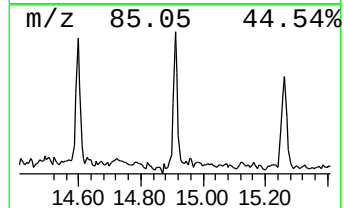
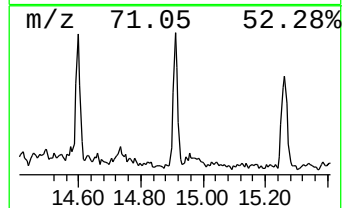
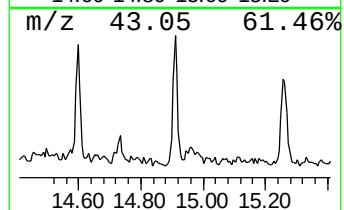
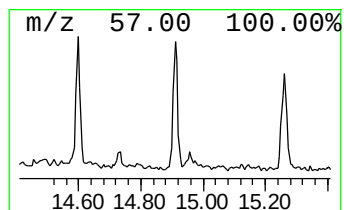
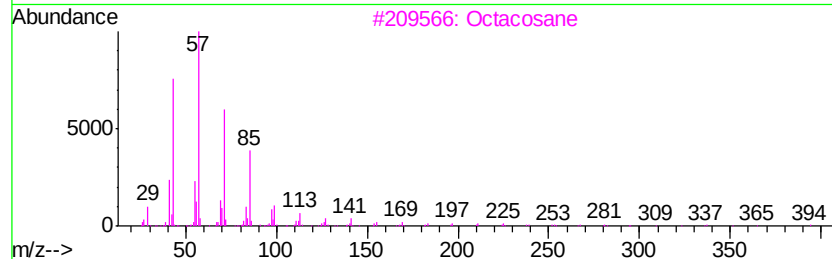
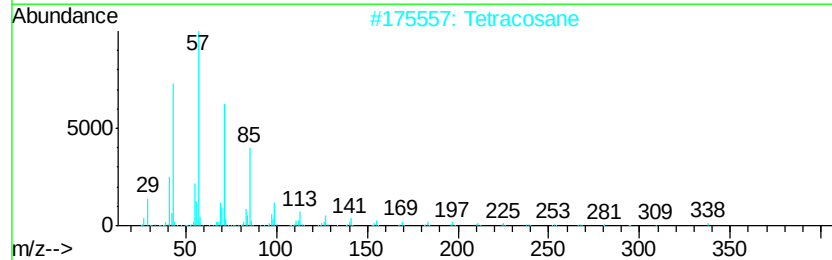
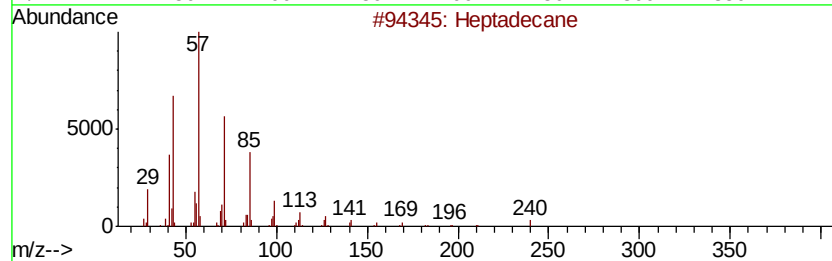
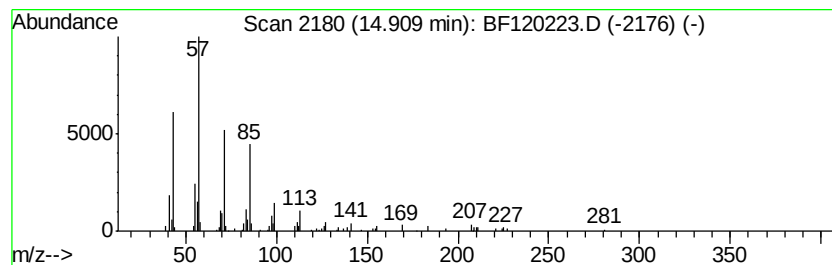
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Peak Number 5 Heptadecane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.91 | 2.74 ng | 105798 | Perylene-d12     | 15.23 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 90   |
| 2       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 87   |
| 3       | Octacosane  |              | 394 | C28H58  | 000630-02-4 | 87   |
| 4       | Docosane    |              | 310 | C22H46  | 000629-97-0 | 87   |
| 5       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 87   |



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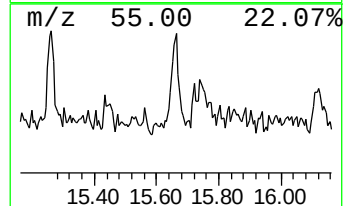
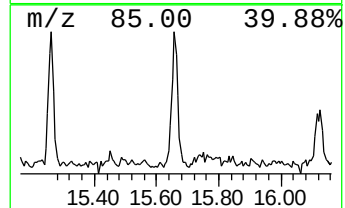
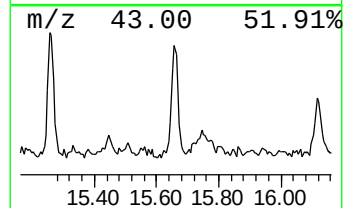
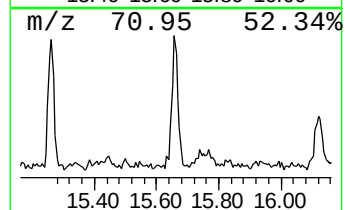
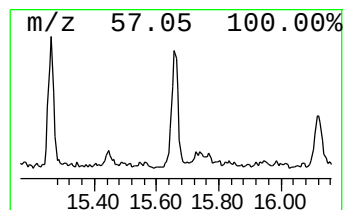
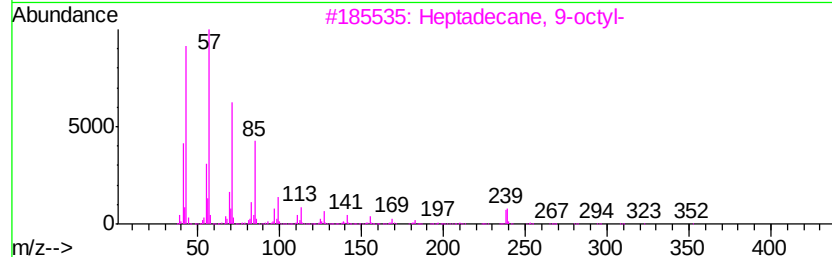
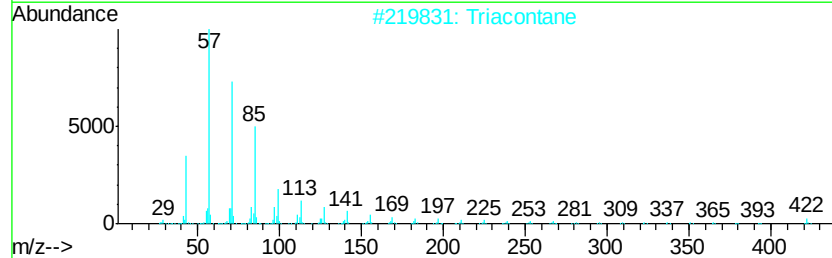
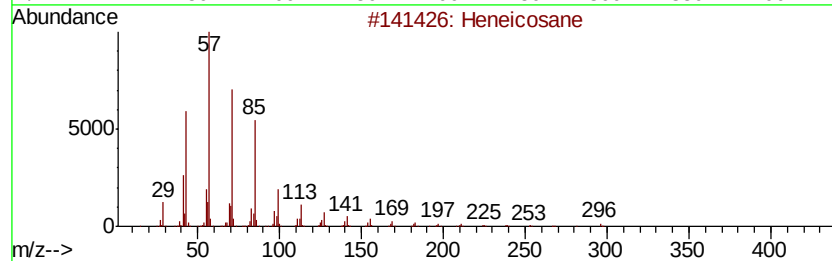
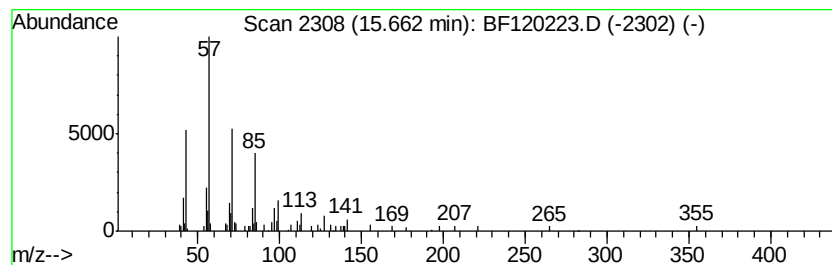
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Peak Number 6 Heneicosane Concentration Rank 4

| R.T.      | EstConc               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|--------|------------------|-------------|------|
| 15.66     | 2.74 ng               | 105845 | Perylene-d12     | 15.23       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual |
| 1         | Heneicosane           | 296    | C21H44           | 000629-94-7 | 90   |
| 2         | Triacontane           | 422    | C30H62           | 000638-68-6 | 87   |
| 3         | Heptadecane, 9-octyl- | 352    | C25H52           | 007225-64-1 | 87   |
| 4         | Tetratetracontane     | 619    | C44H90           | 007098-22-8 | 87   |
| 5         | Nonadecane, 2-methyl- | 282    | C20H42           | 001560-86-7 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042720\  
Data File : BF120223.D  
Acq On : 27 Apr 2020 17:11  
Operator : MA/SJ  
Sample : L2409-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RBR-200055

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.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 |
| n-Hexadecanoic acid  | 11.72 | 3.1 ng  |       | 168637   | 4                       | 11.19 | 1089480 | 20.0 |
| Docosyl pentafluo... | 13.69 | 5.2 ng  |       | 229299   | 5                       | 13.82 | 883832  | 20.0 |
| Docosane             | 14.60 | 2.6 ng  |       | 99489    | 6                       | 15.23 | 772134  | 20.0 |
| Heptadecane          | 14.91 | 2.7 ng  |       | 105798   | 6                       | 15.23 | 772134  | 20.0 |
| Heneicosane          | 15.66 | 2.7 ng  |       | 105845   | 6                       | 15.23 | 772134  | 20.0 |