

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031519\  
 Data File : BF113067.D  
 Acq On : 15 Mar 2019 15:53  
 Operator : JU/SJ  
 Sample : K1905-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DFTPP

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 1 % 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-BF022719.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         | 5.340       | 548           | 553         | 571          | rBV      | 2959549        | 2968377       | 76.31%          | 8.762%        |
| 2         | 6.369       | 723           | 728         | 746          | rBV      | 2841050        | 3192444       | 82.07%          | 9.424%        |
| 3         | 6.498       | 746           | 750         | 753          | rBV      | 3542451        | 3116723       | 80.12%          | 9.200%        |
| 4         | 6.728       | 785           | 789         | 792          | rBV      | 759128         | 669565        | 17.21%          | 1.977%        |
| 5         | 6.881       | 811           | 815         | 819          | rBV      | 2621266        | 2357469       | 60.60%          | 6.959%        |
| 6         | 7.286       | 879           | 884         | 887          | rBV      | 2176087        | 1863931       | 47.92%          | 5.502%        |
| 7         | 8.010       | 1003          | 1007        | 1013         | rBV      | 775763         | 817334        | 21.01%          | 2.413%        |
| 8         | 9.080       | 1185          | 1189        | 1204         | rBV      | 3518448        | 3538408       | 90.96%          | 10.445%       |
| 9         | 9.475       | 1253          | 1256        | 1264         | rBV      | 198403         | 184165        | 4.73%           | 0.544%        |
| 10        | 9.757       | 1300          | 1304        | 1308         | rBV      | 1071197        | 1004865       | 25.83%          | 2.966%        |
| 11        | 9.786       | 1308          | 1309        | 1317         | rVB      | 108712         | 89373         | 2.30%           | 0.264%        |
| 12        | 10.304      | 1394          | 1397        | 1403         | rVB      | 64462          | 60838         | 1.56%           | 0.180%        |
| 13        | 10.545      | 1433          | 1438        | 1453         | rBV      | 2636785        | 2666102       | 68.54%          | 7.870%        |
| 14        | 11.233      | 1552          | 1555        | 1558         | rBV      | 1214778        | 1124875       | 28.92%          | 3.321%        |
| 15        | 11.257      | 1558          | 1559        | 1565         | rVV      | 349346         | 236749        | 6.09%           | 0.699%        |
| 16        | 11.310      | 1565          | 1568        | 1572         | rVB      | 55466          | 49557         | 1.27%           | 0.146%        |
| 17        | 11.774      | 1643          | 1647        | 1652         | rBV2     | 317687         | 372900        | 9.59%           | 1.101%        |
| 18        | 11.845      | 1656          | 1659        | 1662         | rBV      | 71668          | 75538         | 1.94%           | 0.223%        |
| 19        | 12.333      | 1736          | 1742        | 1745         | rBV5     | 20928          | 41902         | 1.08%           | 0.124%        |
| 20        | 12.439      | 1757          | 1760        | 1764         | rBV      | 410066         | 381122        | 9.80%           | 1.125%        |
| 21        | 12.551      | 1777          | 1779        | 1784         | rBV2     | 91998          | 118520        | 3.05%           | 0.350%        |
| 22        | 12.668      | 1793          | 1799        | 1802         | rBV      | 295144         | 345490        | 8.88%           | 1.020%        |
| 23        | 12.816      | 1820          | 1824        | 1828         | rBV      | 4001114        | 3890029       | 100.00%         | 11.483%       |
| 24        | 12.998      | 1852          | 1855        | 1858         | rVB2     | 62479          | 60084         | 1.54%           | 0.177%        |
| 25        | 13.063      | 1861          | 1866        | 1869         | rVV2     | 70900          | 81896         | 2.11%           | 0.242%        |
| 26        | 13.721      | 1975          | 1978        | 1985         | rBV      | 273731         | 402077        | 10.34%          | 1.187%        |
| 27        | 13.863      | 1996          | 2002        | 2005         | rBV      | 1237512        | 1357220       | 34.89%          | 4.006%        |
| 28        | 14.039      | 2029          | 2032        | 2039         | rVB      | 110300         | 111879        | 2.88%           | 0.330%        |
| 29        | 14.262      | 2066          | 2070        | 2072         | rBV2     | 43525          | 76409         | 1.96%           | 0.226%        |
| 30        | 14.339      | 2080          | 2083        | 2086         | rBV      | 164538         | 166865        | 4.29%           | 0.493%        |
| 31        | 14.633      | 2130          | 2133        | 2137         | rBV      | 185814         | 191734        | 4.93%           | 0.566%        |
| 32        | 14.868      | 2171          | 2173        | 2180         | rVB      | 62838          | 106584        | 2.74%           | 0.315%        |
| 33        | 14.951      | 2183          | 2187        | 2193         | rBV      | 216461         | 250532        | 6.44%           | 0.740%        |
| 34        | 15.209      | 2228          | 2231        | 2236         | rBV      | 36363          | 52618         | 1.35%           | 0.155%        |

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

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BNA\_F  
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DFTPP

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 1 % 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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 15.268 | 2236 | 2241 | 2245 | rVV  | 847518 | 1050737 | 27.01% | 3.102% |
| 36 | 15.304 | 2245 | 2247 | 2253 | rVB  | 210325 | 253736  | 6.52%  | 0.749% |
| 37 | 15.709 | 2311 | 2316 | 2322 | rBV  | 209008 | 297805  | 7.66%  | 0.879% |
| 38 | 16.174 | 2391 | 2395 | 2405 | rVB2 | 125987 | 249667  | 6.42%  | 0.737% |

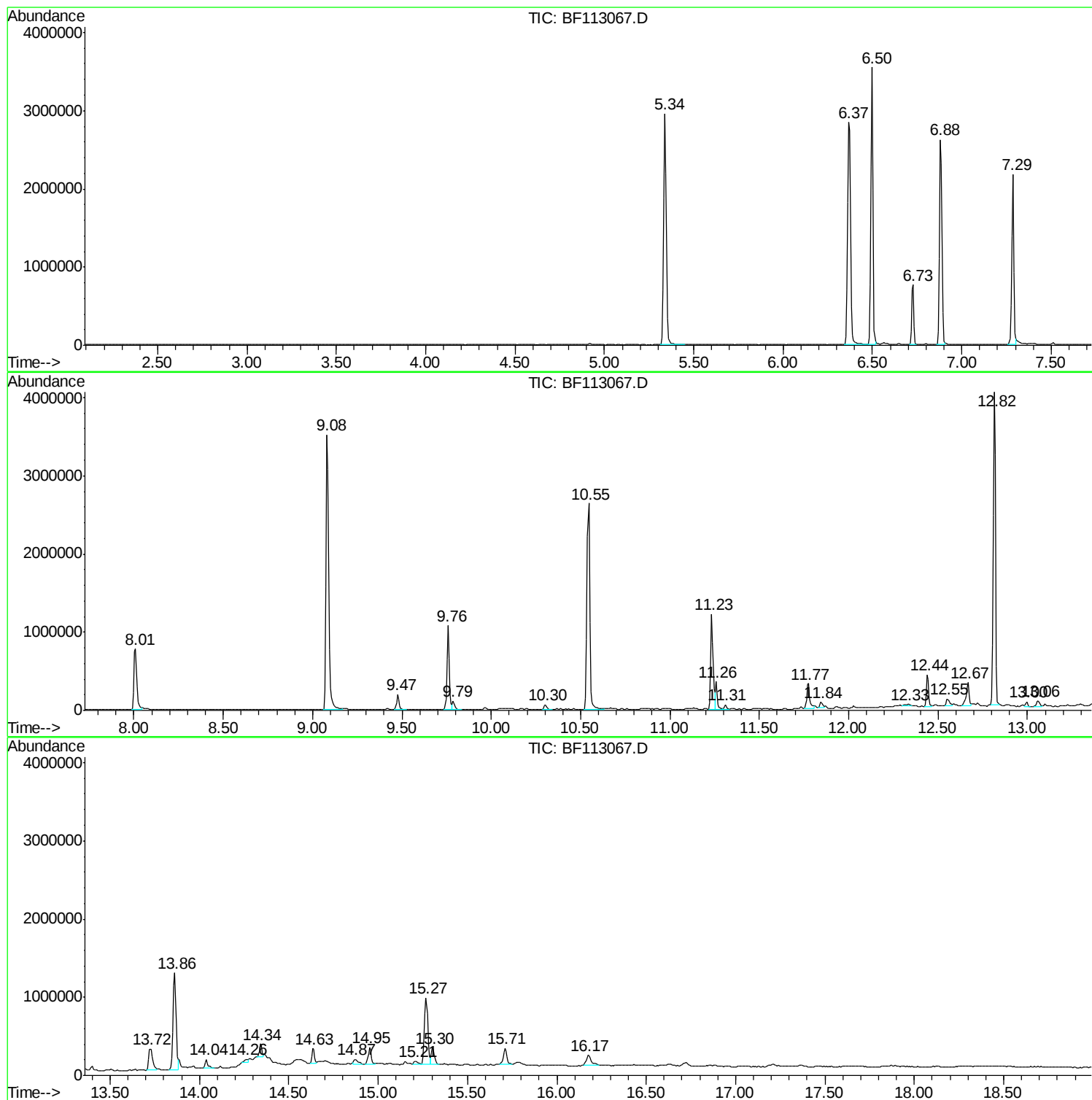
Sum of corrected areas: 33876119

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 1 3-Chloro-6-fluoro-pyrazine Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 93.10 ng | 3116720 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    |   | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    |   | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    |   | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    |   | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |

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 Peak Number 2 1,4-Dichlorobenzene-D4 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.88 | 70.42 ng | 2357470 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 1,4-Dichlorobenzene-D4              | 150 | C6D4Cl2    | 003855-82-1  | 94   |
| 2    |    |   | 1,2-Dichlorobenzene-D4              | 150 | C6D4Cl2    | 002199-69-1  | 94   |
| 3    |    |   | 9-Borabicyclo[3.3.1]nonane, 9-et... | 150 | C10H19B    | 052102-17-7  | 38   |
| 4    |    |   | But-2-yne-1,4-diol, 0,0'-bis(3-n... | 384 | C18H12N2O8 | 055709-58-5  | 10   |
| 5    |    |   | Pyridine, 4-(2-nitrovinyl)-         | 150 | C7H6N2O2   | 1000303-66-6 | 10   |

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 Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.77 | 6.63 ng | 372900 | Phenanthrene-d10 | 11.23 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 93   |
| 3    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 4    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 87   |
| 5    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 76   |

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 Peak Number 4 1-Heneicosanol Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|---------|------|------------------|------|
|------|---------|------|------------------|------|

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Instrument :  
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 DFTPP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

|       |         |        |                                |       |             |              |      |
|-------|---------|--------|--------------------------------|-------|-------------|--------------|------|
| 13.72 | 5.93 ng | 402077 | Chrysene-d12                   | 13.86 |             |              |      |
| Hit#  | of      | 5      | Tentative ID                   | MW    | MolForm     | CAS#         | Qual |
| 1     |         |        | 1-Heneicosanol                 | 312   | C21H44O     | 015594-90-8  | 92   |
| 2     |         |        | 1-Hexadecanesulfonyl chloride  | 324   | C16H33ClO2S | 038775-38-1  | 91   |
| 3     |         |        | Ethanol, 2-(tetradecyloxy)-    | 258   | C16H34O2    | 002136-70-1  | 91   |
| 4     |         |        | Tricosyl pentafluoropropionate | 486   | C26H47F5O2  | 1000351-81-0 | 91   |
| 5     |         |        | Heneicosyl heptafluorobutyrate | 508   | C25H43F7O2  | 1000351-83-8 | 91   |

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 Peak Number 5 Octadecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD       |     | R.T.    |             |      |
|-------|---------|--------|------------------------|-----|---------|-------------|------|
| 14.34 | 2.46 ng | 166865 | Chrysene-d12           |     | 13.86   |             |      |
| Hit#  | of      | 5      | Tentative ID           | MW  | MolForm | CAS#        | Qual |
| 1     |         |        | Octadecane             | 254 | C18H38  | 000593-45-3 | 93   |
| 2     |         |        | Eicosane               | 282 | C20H42  | 000112-95-8 | 93   |
| 3     |         |        | Heptadecane            | 240 | C17H36  | 000629-78-7 | 93   |
| 4     |         |        | Heptadecane, 2-methyl- | 254 | C18H38  | 001560-89-0 | 91   |
| 5     |         |        | Heneicosane            | 296 | C21H44  | 000629-94-7 | 87   |

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 Peak Number 6 Nonadecane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD |     | R.T.    |             |      |
|-------|---------|--------|------------------|-----|---------|-------------|------|
| 14.63 | 3.65 ng | 191734 | Perylene-d12     |     | 15.27   |             |      |
| Hit#  | of      | 5      | Tentative ID     | MW  | MolForm | CAS#        | Qual |
| 1     |         |        | Nonadecane       | 268 | C19H40  | 000629-92-5 | 93   |
| 2     |         |        | Octadecane       | 254 | C18H38  | 000593-45-3 | 87   |
| 3     |         |        | Heneicosane      | 296 | C21H44  | 000629-94-7 | 86   |
| 4     |         |        | Heptacosane      | 380 | C27H56  | 000593-49-7 | 81   |
| 5     |         |        | Octacosane       | 394 | C28H58  | 000630-02-4 | 81   |

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 Peak Number 7 Benzo[e]pyrene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD |    |         | R.T.  |      |
|-------|---------|--------|------------------|----|---------|-------|------|
| 14.87 | 2.03 ng | 106584 | Perylene-d12     |    |         | 15.27 |      |
| Hit#  | of      | 5      | Tentative ID     | MW | MolForm | CAS#  | Qual |

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 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 DFTPP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

|   |                          |     |        |             |    |
|---|--------------------------|-----|--------|-------------|----|
| 1 | Benzo[e]pyrene           | 252 | C20H12 | 000192-97-2 | 95 |
| 2 | Benzo[a]pyrene           | 252 | C20H12 | 000050-32-8 | 94 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |
| 4 | Benzo[k]fluoranthene     | 252 | C20H12 | 000207-08-9 | 89 |
| 5 | Perylene                 | 252 | C20H12 | 000198-55-0 | 76 |

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 Peak Number 8 Nonadecane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.95 | 4.77 ng | 250532 | Perylene-d12     | 15.27 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|---------|---|--------------------------------|-----|---------|--------------|------|
| 1       |   | Nonadecane                     | 268 | C19H40  | 000629-92-5  | 93   |
| 2       |   | Tetracosane                    | 338 | C24H50  | 000646-31-1  | 91   |
| 3       |   | 2-methyloctacosane             | 408 | C29H60  | 1000376-72-8 | 91   |
| 4       |   | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7  | 91   |
| 5       |   | Heneicosane                    | 296 | C21H44  | 000629-94-7  | 91   |

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 Peak Number 9 Tetradecane, 2,6,10-trimethyl- Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.71 | 5.67 ng | 297805 | Perylene-d12     | 15.27 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|---------|---|--------------------------------|-----|---------|--------------|------|
| 1       |   | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7  | 91   |
| 2       |   | Heneicosane                    | 296 | C21H44  | 000629-94-7  | 91   |
| 3       |   | Tetracosane                    | 338 | C24H50  | 000646-31-1  | 91   |
| 4       |   | 2-methyloctacosane             | 408 | C29H60  | 1000376-72-8 | 91   |
| 5       |   | Octacosane                     | 394 | C28H58  | 000630-02-4  | 91   |

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 Peak Number 10 Nonadecane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.17 | 4.75 ng | 249667 | Perylene-d12     | 15.27 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------|-----|---------|-------------|------|
| 1       |   | Nonadecane          | 268 | C19H40  | 000629-92-5 | 93   |
| 2       |   | Hexacosane          | 366 | C26H54  | 000630-01-3 | 87   |
| 3       |   | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 80   |

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

|                     |            |                |
|---------------------|------------|----------------|
| 4 Octacosane        | 394 C28H58 | 000630-02-4 70 |
| 5 Tetratetracontane | 619 C44H90 | 007098-22-8 70 |

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 3-Chloro-6-fluoro... | 6.50  | 93.1    | ng    | 3116720  | 1                     | 6.73  | 669565  | 20.0 |
| 1,4-Dichlorobenze... | 6.88  | 70.4    | ng    | 2357470  | 1                     | 6.73  | 669565  | 20.0 |
| n-Hexadecanoic acid  | 11.77 | 6.6     | ng    | 372900   | 4                     | 11.23 | 1124880 | 20.0 |
| 1-Heneicosanol       | 13.72 | 5.9     | ng    | 402077   | 5                     | 13.86 | 1357220 | 20.0 |
| Octadecane           | 14.34 | 2.5     | ng    | 166865   | 5                     | 13.86 | 1357220 | 20.0 |
| Nonadecane           | 14.63 | 3.6     | ng    | 191734   | 6                     | 15.27 | 1050740 | 20.0 |
| Benzo[e]pyrene       | 14.87 | 2.0     | ng    | 106584   | 6                     | 15.27 | 1050740 | 20.0 |
| Nonadecane           | 14.95 | 4.8     | ng    | 250532   | 6                     | 15.27 | 1050740 | 20.0 |
| Tetradecane, 2,6,... | 15.71 | 5.7     | ng    | 297805   | 6                     | 15.27 | 1050740 | 20.0 |
| Nonadecane           | 16.17 | 4.8     | ng    | 249667   | 6                     | 15.27 | 1050740 | 20.0 |