

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
 Data File : BF086226.D  
 Acq On : 15 Apr 2016 19:48  
 Operator : UM/SJ  
 Sample : H2402-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-01S-4-7-16

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:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.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         | 2.144       | 3             | 5           | 19           | rVB2     | 65515          | 206398        | 8.30%           | 0.615%        |
| 2         | 2.350       | 21            | 23          | 28           | rVB      | 19940          | 34934         | 1.40%           | 0.104%        |
| 3         | 5.070       | 258           | 261         | 265          | rVB      | 46923          | 61795         | 2.48%           | 0.184%        |
| 4         | 5.470       | 294           | 296         | 299          | rVV      | 550468         | 525752        | 21.14%          | 1.566%        |
| 5         | 5.561       | 302           | 304         | 307          | rVB      | 169416         | 149333        | 6.01%           | 0.445%        |
| 6         | 5.710       | 315           | 317         | 319          | rVB      | 46419          | 43930         | 1.77%           | 0.131%        |
| 7         | 6.499       | 384           | 386         | 390          | rBV2     | 450874         | 451427        | 18.15%          | 1.344%        |
| 8         | 6.647       | 397           | 399         | 402          | rBV      | 949552         | 896948        | 36.07%          | 2.671%        |
| 9         | 6.887       | 418           | 420         | 423          | rBV      | 1510495        | 1725278       | 69.38%          | 5.138%        |
| 10        | 7.047       | 430           | 434         | 436          | rVB      | 1290308        | 1114642       | 44.82%          | 3.319%        |
| 11        | 7.447       | 467           | 469         | 471          | rBV      | 997331         | 837439        | 33.68%          | 2.494%        |
| 12        | 7.493       | 471           | 473         | 475          | rVV      | 229427         | 200382        | 8.06%           | 0.597%        |
| 13        | 7.527       | 475           | 476         | 479          | rVB      | 38365          | 46285         | 1.86%           | 0.138%        |
| 14        | 7.665       | 486           | 488         | 490          | rVB      | 61414          | 56453         | 2.27%           | 0.168%        |
| 15        | 7.905       | 506           | 509         | 512          | rVB4     | 15882          | 33280         | 1.34%           | 0.099%        |
| 16        | 7.962       | 512           | 514         | 518          | rBV2     | 39407          | 70008         | 2.82%           | 0.208%        |
| 17        | 8.087       | 522           | 525         | 527          | rBV      | 32270          | 43050         | 1.73%           | 0.128%        |
| 18        | 8.179       | 530           | 533         | 535          | rBV      | 2829950        | 2422122       | 97.40%          | 7.213%        |
| 19        | 8.808       | 586           | 588         | 590          | rVB      | 56772          | 44477         | 1.79%           | 0.132%        |
| 20        | 9.253       | 625           | 627         | 629          | rVB      | 2087720        | 1686466       | 67.82%          | 5.022%        |
| 21        | 9.345       | 632           | 635         | 636          | rVV      | 48598          | 65751         | 2.64%           | 0.196%        |
| 22        | 9.379       | 636           | 638         | 643          | rVB3     | 21785          | 45542         | 1.83%           | 0.136%        |
| 23        | 9.573       | 652           | 655         | 656          | rBV3     | 37755          | 51900         | 2.09%           | 0.155%        |
| 24        | 9.653       | 660           | 662         | 664          | rVV      | 1118069        | 1231139       | 49.51%          | 3.666%        |
| 25        | 9.688       | 664           | 665         | 667          | rVB2     | 44662          | 33720         | 1.36%           | 0.100%        |
| 26        | 9.745       | 667           | 670         | 674          | rBV2     | 42617          | 90766         | 3.65%           | 0.270%        |
| 27        | 9.836       | 674           | 678         | 679          | rBV2     | 24539          | 47479         | 1.91%           | 0.141%        |
| 28        | 9.870       | 679           | 681         | 683          | rBV      | 485077         | 369846        | 14.87%          | 1.101%        |
| 29        | 9.928       | 684           | 686         | 689          | rVB2     | 2065001        | 2486729       | 100.00%         | 7.406%        |
| 30        | 10.019      | 692           | 694         | 699          | rBV3     | 89903          | 134371        | 5.40%           | 0.400%        |
| 31        | 10.099      | 699           | 701         | 703          | rBV2     | 75889          | 140326        | 5.64%           | 0.418%        |
| 32        | 10.133      | 703           | 704         | 705          | rVV      | 139799         | 99284         | 3.99%           | 0.296%        |
| 33        | 10.156      | 705           | 706         | 708          | rVB      | 46336          | 41432         | 1.67%           | 0.123%        |
| 34        | 10.191      | 708           | 709         | 711          | rVB2     | 115562         | 108304        | 4.36%           | 0.323%        |

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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:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.225 | 711  | 712  | 714  | rVB  | 64207   | 63295   | 2.55%  | 0.188% |
| 36 | 10.316 | 717  | 720  | 721  | rBV  | 24680   | 37329   | 1.50%  | 0.111% |
| 37 | 10.373 | 721  | 725  | 726  | rBV  | 626380  | 627142  | 25.22% | 1.868% |
| 38 | 10.408 | 726  | 728  | 730  | rBV2 | 51696   | 103624  | 4.17%  | 0.309% |
| 39 | 10.476 | 732  | 734  | 737  | rVB3 | 31859   | 56806   | 2.28%  | 0.169% |
| 40 | 10.533 | 737  | 739  | 741  | rVB  | 26224   | 29018   | 1.17%  | 0.086% |
| 41 | 10.591 | 741  | 744  | 747  | rBV  | 252018  | 415081  | 16.69% | 1.236% |
| 42 | 10.648 | 747  | 749  | 750  | rVB  | 51427   | 64547   | 2.60%  | 0.192% |
| 43 | 10.671 | 750  | 751  | 753  | rBV  | 104241  | 111616  | 4.49%  | 0.332% |
| 44 | 10.716 | 753  | 755  | 757  | rBV  | 608643  | 698289  | 28.08% | 2.080% |
| 45 | 10.808 | 762  | 763  | 765  | rBV  | 109488  | 174201  | 7.01%  | 0.519% |
| 46 | 10.842 | 765  | 766  | 771  | rVB  | 769750  | 808912  | 32.53% | 2.409% |
| 47 | 10.991 | 777  | 779  | 781  | rVB  | 219559  | 194978  | 7.84%  | 0.581% |
| 48 | 11.036 | 781  | 783  | 785  | rVV  | 108532  | 140075  | 5.63%  | 0.417% |
| 49 | 11.082 | 785  | 787  | 790  | rVV  | 132238  | 239480  | 9.63%  | 0.713% |
| 50 | 11.173 | 793  | 795  | 797  | rVV2 | 41578   | 77296   | 3.11%  | 0.230% |
| 51 | 11.231 | 799  | 800  | 801  | rVV  | 53623   | 44154   | 1.78%  | 0.131% |
| 52 | 11.288 | 803  | 805  | 807  | rVV  | 415508  | 403952  | 16.24% | 1.203% |
| 53 | 11.322 | 807  | 808  | 811  | rVB  | 131238  | 120062  | 4.83%  | 0.358% |
| 54 | 11.414 | 814  | 816  | 819  | rVB  | 2699795 | 2350073 | 94.50% | 6.999% |
| 55 | 11.471 | 819  | 821  | 823  | rBV  | 89130   | 110737  | 4.45%  | 0.330% |
| 56 | 11.642 | 834  | 836  | 839  | rBV2 | 37571   | 49361   | 1.98%  | 0.147% |
| 57 | 11.722 | 841  | 843  | 846  | rVB  | 79052   | 112737  | 4.53%  | 0.336% |
| 58 | 11.882 | 854  | 857  | 859  | rBV  | 35003   | 48987   | 1.97%  | 0.146% |
| 59 | 11.951 | 860  | 863  | 865  | rBV  | 1094864 | 1144582 | 46.03% | 3.409% |
| 60 | 12.122 | 875  | 878  | 879  | rBV2 | 35305   | 53694   | 2.16%  | 0.160% |
| 61 | 12.202 | 883  | 885  | 887  | rBV  | 53766   | 54589   | 2.20%  | 0.163% |
| 62 | 12.339 | 895  | 897  | 898  | rBV2 | 22489   | 27785   | 1.12%  | 0.083% |
| 63 | 12.636 | 920  | 923  | 929  | rBV3 | 140689  | 328618  | 13.21% | 0.979% |
| 64 | 12.728 | 929  | 931  | 938  | rVV  | 654664  | 1168606 | 46.99% | 3.480% |
| 65 | 12.831 | 938  | 940  | 944  | rVV2 | 59784   | 104388  | 4.20%  | 0.311% |
| 66 | 12.899 | 944  | 946  | 949  | rVB  | 160572  | 234339  | 9.42%  | 0.698% |
| 67 | 13.002 | 952  | 955  | 957  | rBV  | 1064000 | 1314945 | 52.88% | 3.916% |
| 68 | 13.037 | 957  | 958  | 960  | rBV2 | 28444   | 37612   | 1.51%  | 0.112% |
| 69 | 13.208 | 971  | 973  | 975  | rBV3 | 44967   | 65808   | 2.65%  | 0.196% |
| 70 | 13.471 | 993  | 996  | 1000 | rBV3 | 120582  | 289279  | 11.63% | 0.861% |
| 71 | 13.562 | 1002 | 1004 | 1006 | rBV  | 97974   | 132513  | 5.33%  | 0.395% |

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

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:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 13.608 | 1006 | 1008 | 1009 | rVV  | 84361   | 86045   | 3.46%  | 0.256% |
| 73 | 13.894 | 1031 | 1033 | 1039 | rBV  | 705553  | 1107706 | 44.54% | 3.299% |
| 74 | 14.042 | 1044 | 1046 | 1049 | rVV  | 1701834 | 2065324 | 83.05% | 6.151% |
| 75 | 14.088 | 1049 | 1050 | 1058 | rVB6 | 88232   | 338261  | 13.60% | 1.007% |
| 76 | 14.911 | 1120 | 1122 | 1124 | rBV  | 137452  | 164978  | 6.63%  | 0.491% |
| 77 | 15.482 | 1169 | 1172 | 1175 | rBV  | 1034418 | 1371511 | 55.15% | 4.084% |
| 78 | 16.420 | 1252 | 1254 | 1258 | rVB2 | 122875  | 198025  | 7.96%  | 0.590% |
| 79 | 17.483 | 1343 | 1347 | 1352 | rBV2 | 253776  | 611941  | 24.61% | 1.822% |

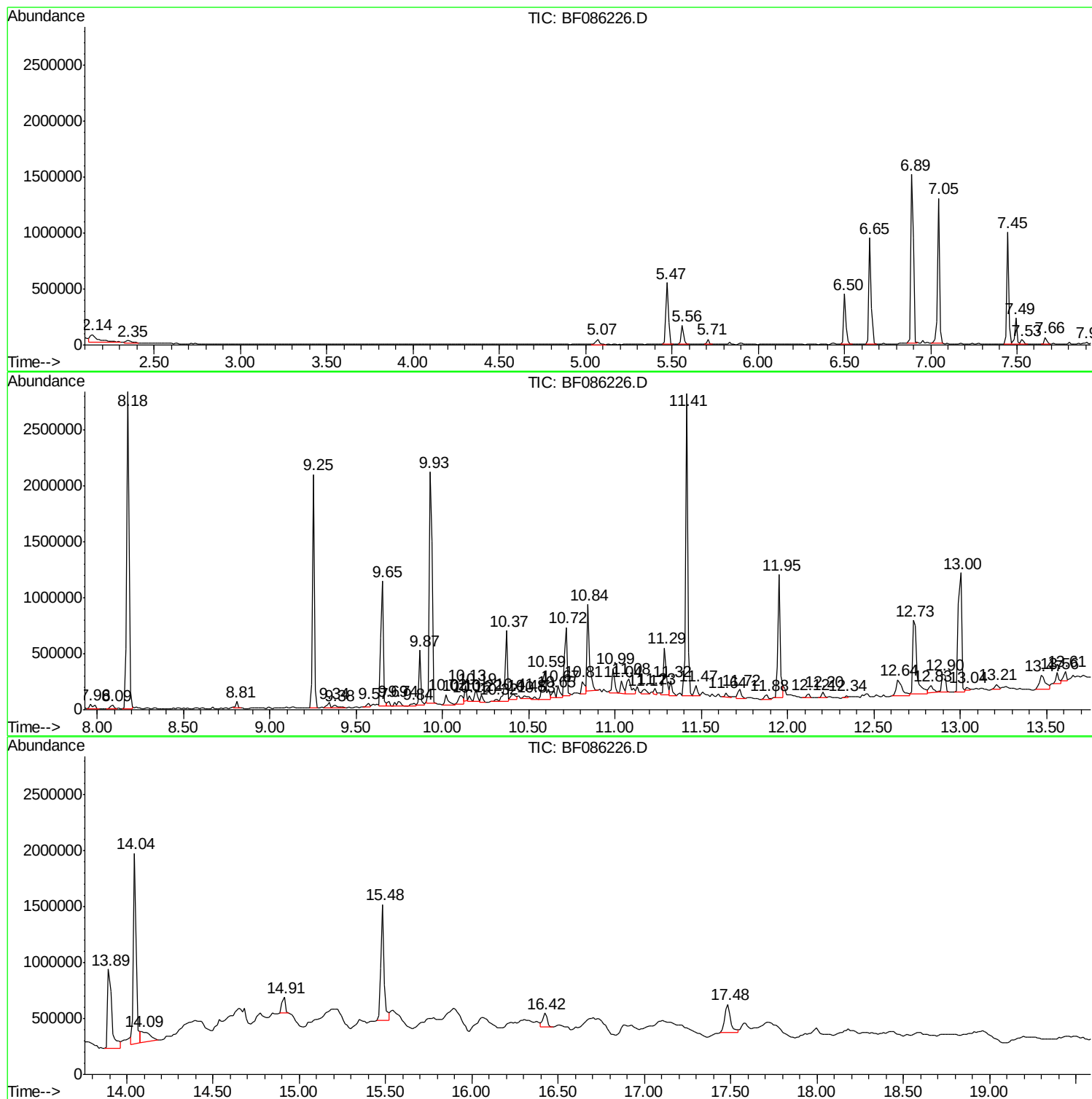
Sum of corrected areas: 33579289

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.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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Sample : H2402-02  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

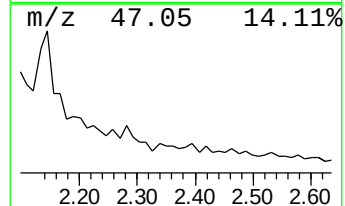
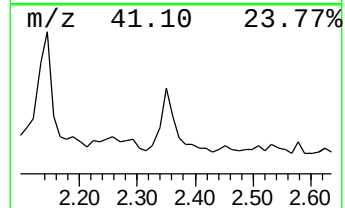
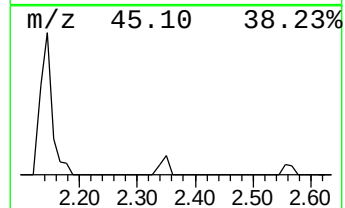
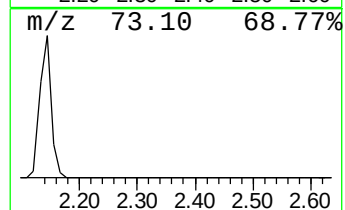
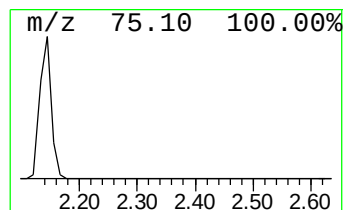
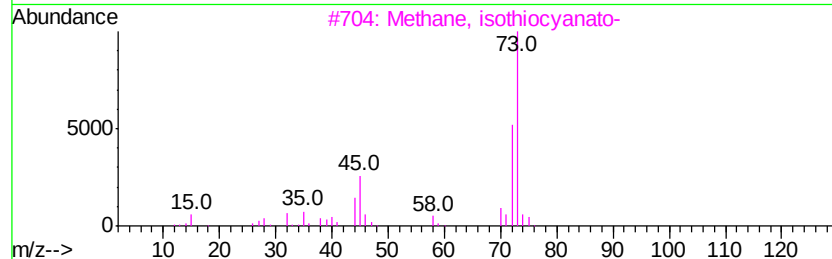
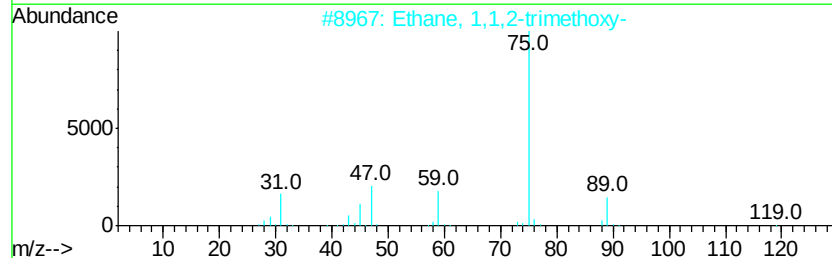
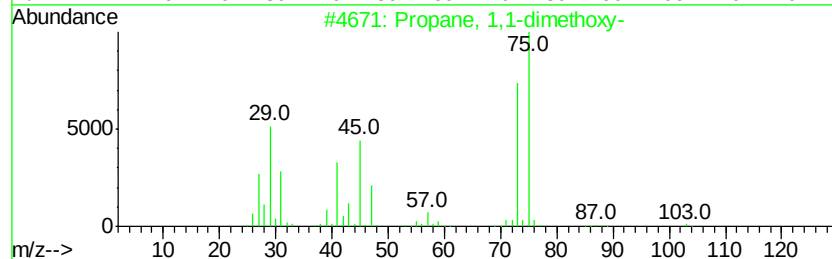
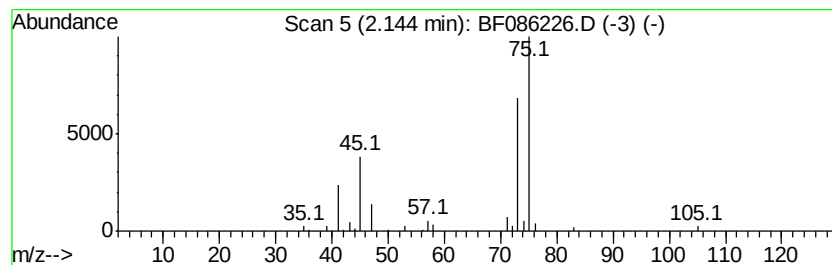
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Propane, 1,1-dimethoxy- Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.14 | 2.39 ng | 206398 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                    | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 1,1-dimethoxy-         | 104 | C5H12O2  | 004744-10-9 | 64   |
| 2    |    | Ethane, 1,1,2-trimethoxy-       | 120 | C5H12O3  | 024332-20-5 | 9    |
| 3    |    | Methane, isothiocyanato-        | 73  | C2H3NS   | 000556-61-6 | 7    |
| 4    |    | Glycine                         | 75  | C2H5NO2  | 000056-40-6 | 5    |
| 5    |    | Ethane, 2-chloro-1,1-dimethoxy- | 124 | C4H9ClO2 | 000097-97-2 | 4    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

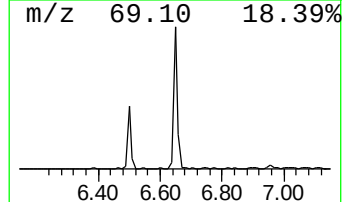
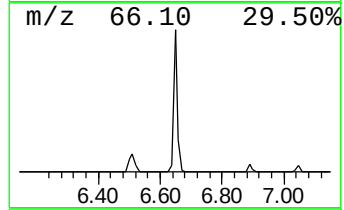
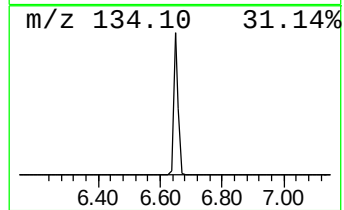
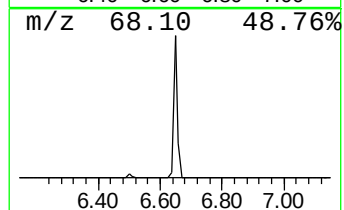
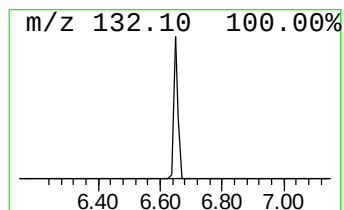
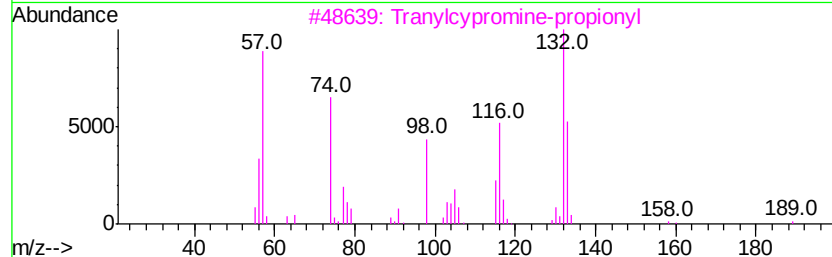
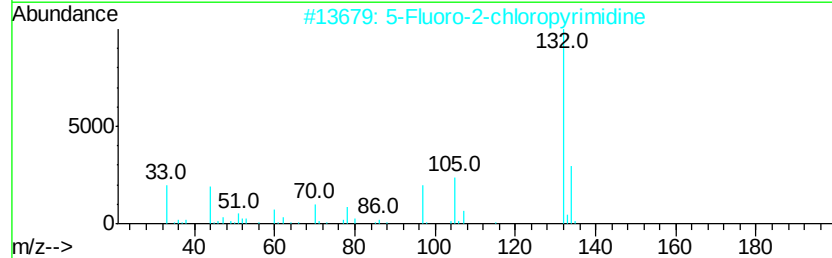
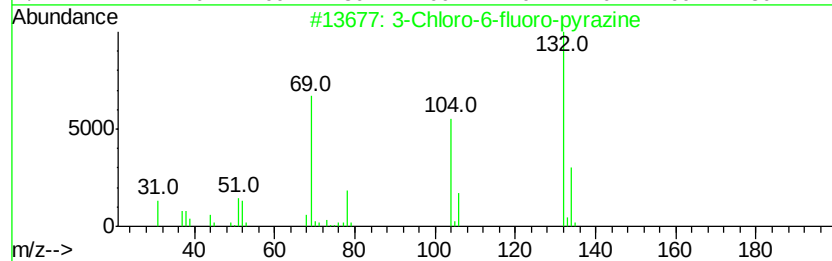
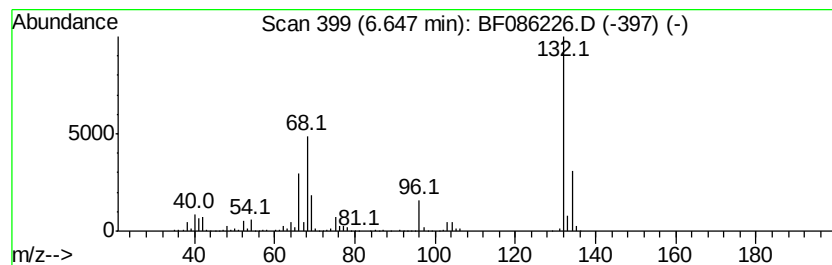
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.65 Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.65 | 10.40 ng | 896948 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of                               | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|----------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2    | 1000146-10-7 | 27      |      |      |
| 2    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2    | 062802-42-0  | 12      |      |      |
| 3    | Tranvlcypropine-propionyl        | 189 | C12H15NO     | 1000123-86-3 | 10      |      |      |
| 4    | 5-Aminoindole                    | 132 | C8H8N2       | 005192-03-0  | 10      |      |      |
| 5    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4       | 019485-35-9  | 9       |      |      |



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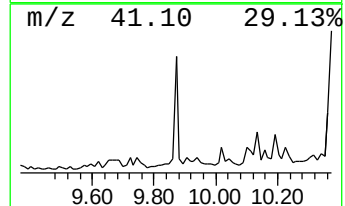
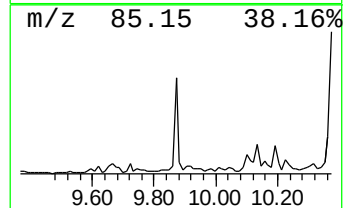
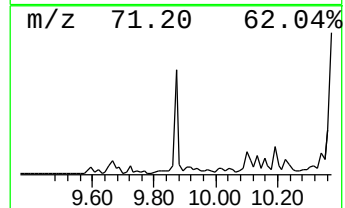
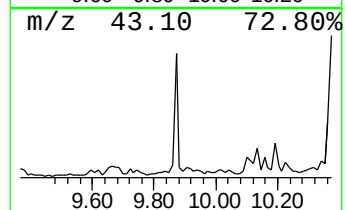
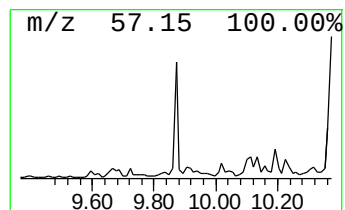
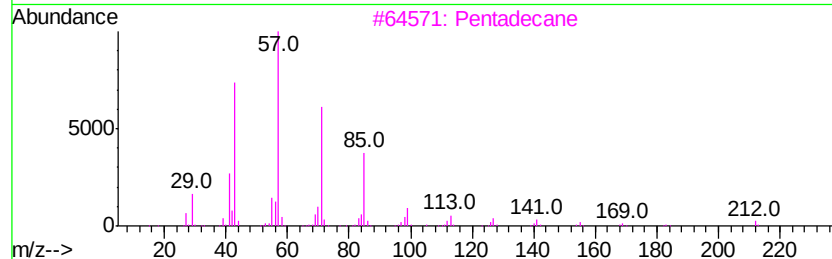
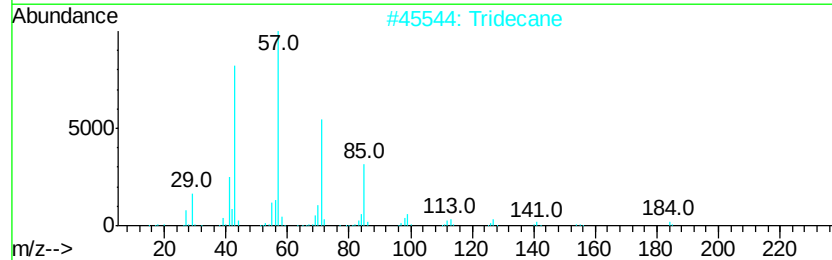
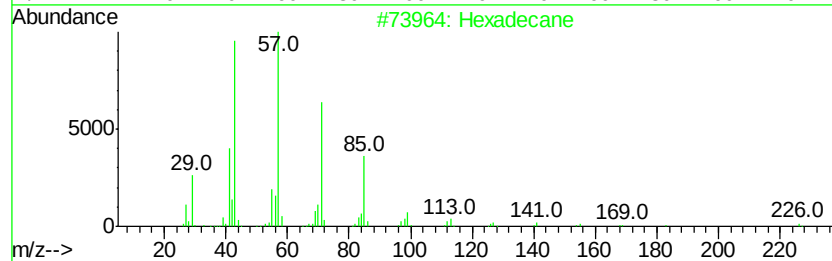
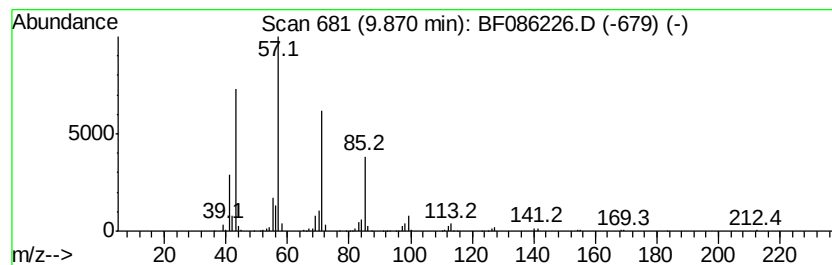
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GW-01S-4-7-16

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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 Hexadecane Concentration Rank 11

| R.T.    | EstConc                  | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------|--------------|------------------|-----------|
| 9.87    | 2.97 ng                  | 369846       | Acenaphthene-d10 | 9.93      |
| Hit# of | 5                        | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane               | 226 C16H34   | 000544-76-3      | 90        |
| 2       | Tridecane                | 184 C13H28   | 000629-50-5      | 90        |
| 3       | Pentadecane              | 212 C15H32   | 000629-62-9      | 83        |
| 4       | Decane, 2,3,5-trimethyl- | 184 C13H28   | 062238-11-3      | 83        |
| 5       | Octane, 2,4,6-trimethyl- | 156 C11H24   | 062016-37-9      | 72        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

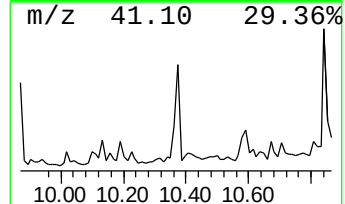
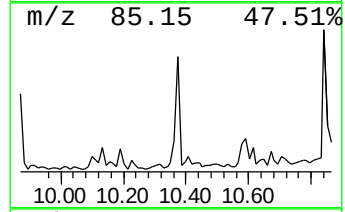
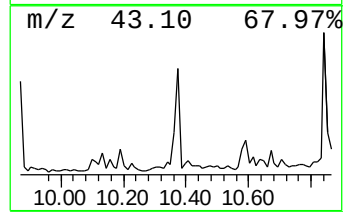
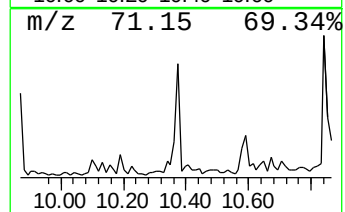
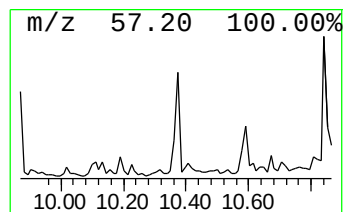
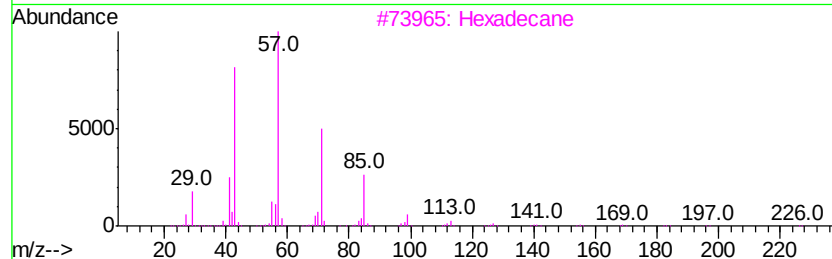
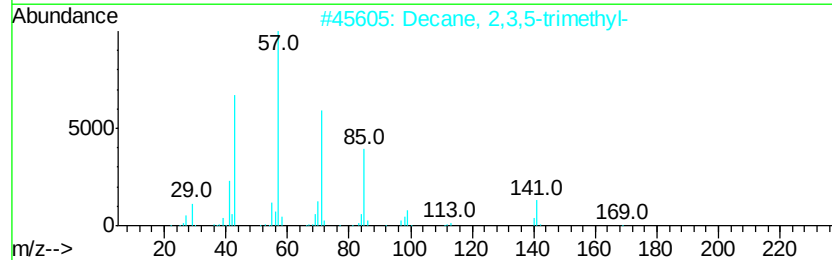
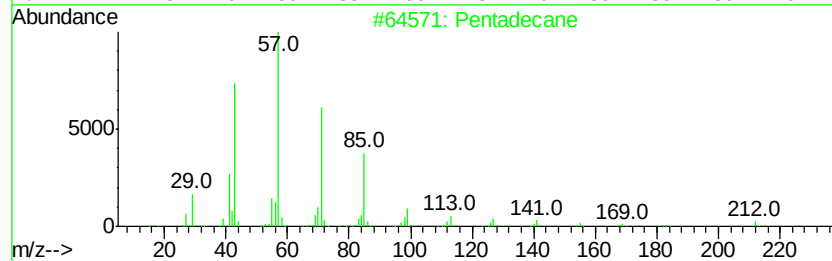
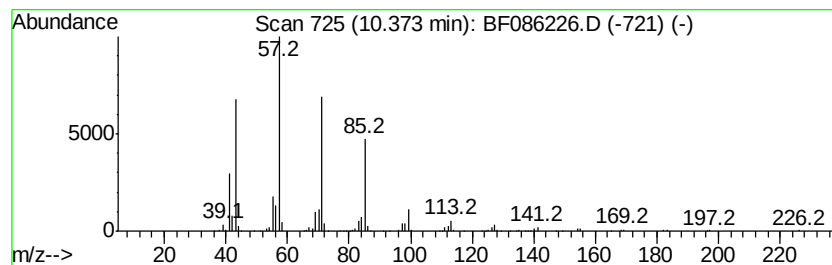
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Pentadecane Concentration Rank 8

| R.T.    | EstConc                  | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------|--------------|------------------|-----------|
| 10.37   | 5.04 ng                  | 627142       | Acenaphthene-d10 | 9.93      |
| Hit# of | 5                        | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Pentadecane              | 212 C15H32   | 000629-62-9      | 90        |
| 2       | Decane, 2,3,5-trimethyl- | 184 C13H28   | 062238-11-3      | 90        |
| 3       | Hexadecane               | 226 C16H34   | 000544-76-3      | 87        |
| 4       | Tetradecane              | 198 C14H30   | 000629-59-4      | 86        |
| 5       | Eicosane                 | 282 C20H42   | 000112-95-8      | 83        |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

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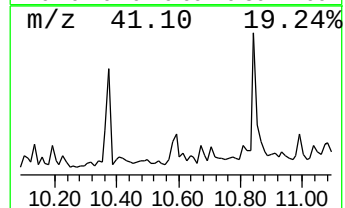
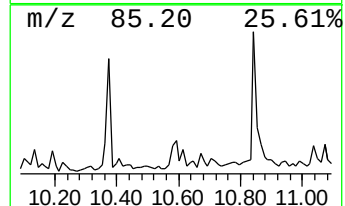
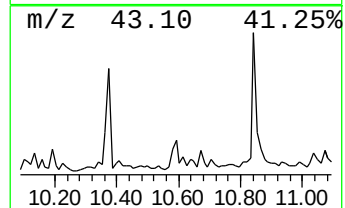
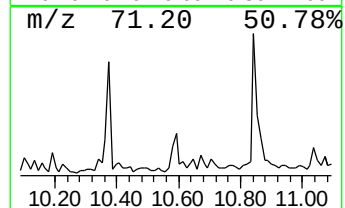
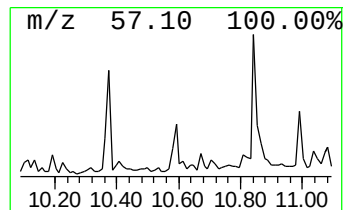
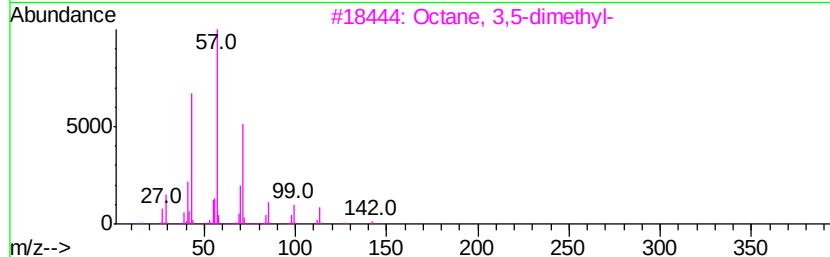
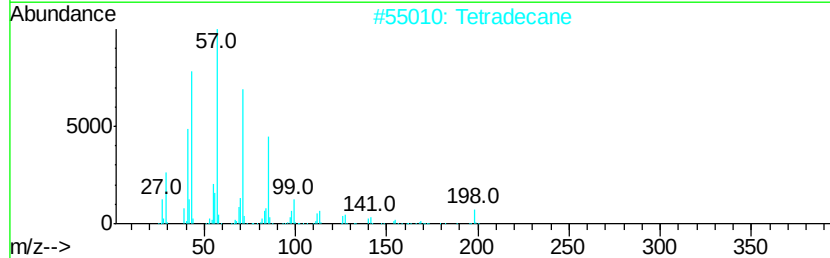
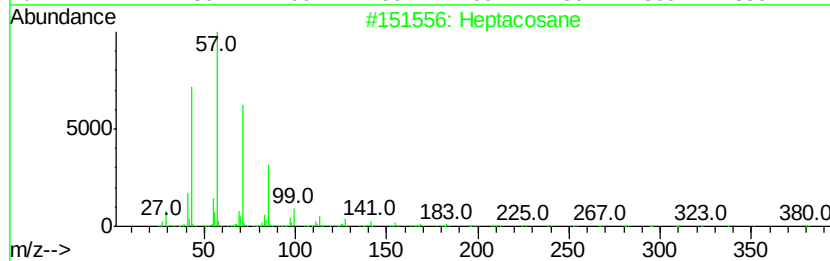
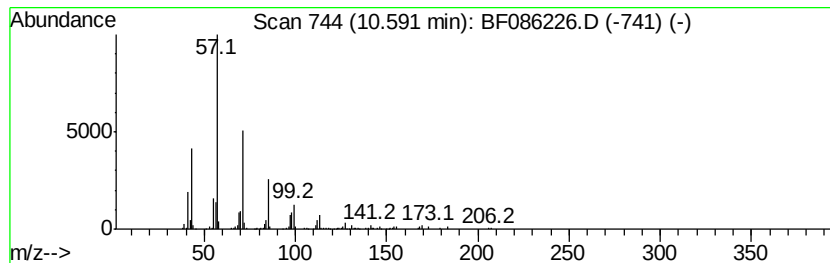
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heptacosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.59 | 3.34 ng | 415081 | Acenaphthene-d10 | 9.93 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane                         | 380 | C27H56  | 000593-49-7 | 87   |
| 2    |    | Tetradecane                         | 198 | C14H30  | 000629-59-4 | 86   |
| 3    |    | Octane, 3,5-dimethyl-               | 142 | C10H22  | 015869-93-9 | 76   |
| 4    |    | Undecane, 3,5-dimethyl-             | 184 | C13H28  | 017312-81-1 | 72   |
| 5    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
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Operator : UM/SJ  
Sample : H2402-02  
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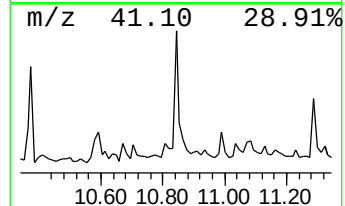
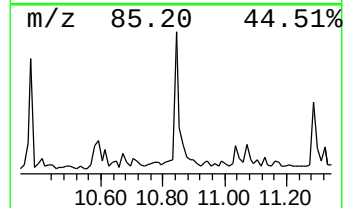
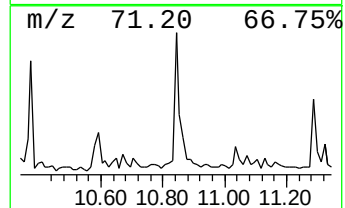
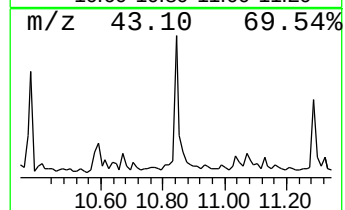
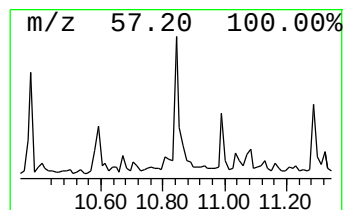
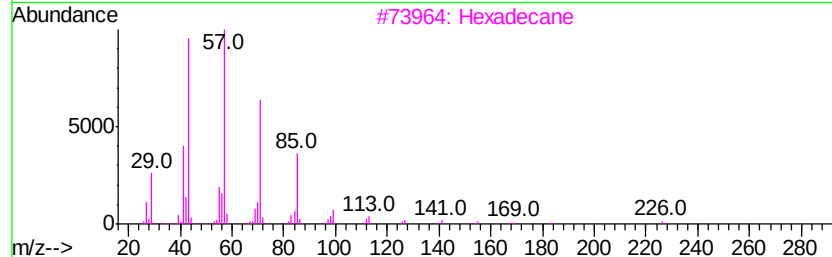
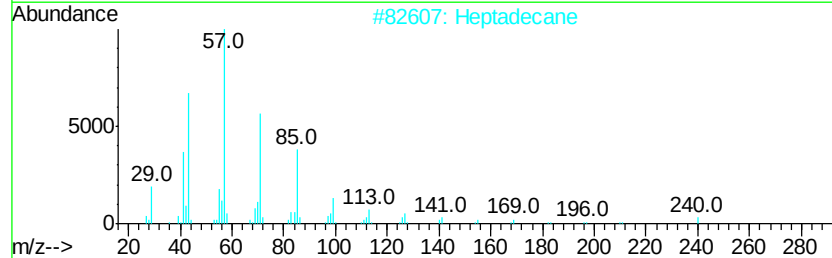
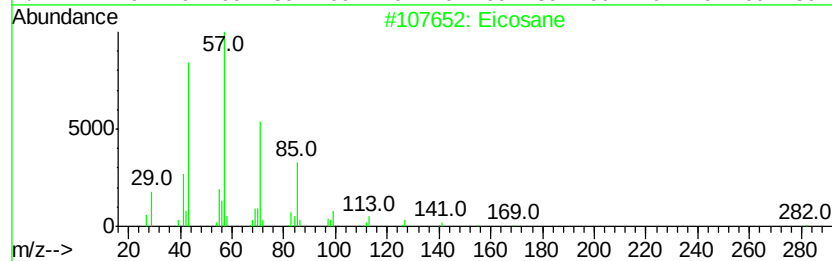
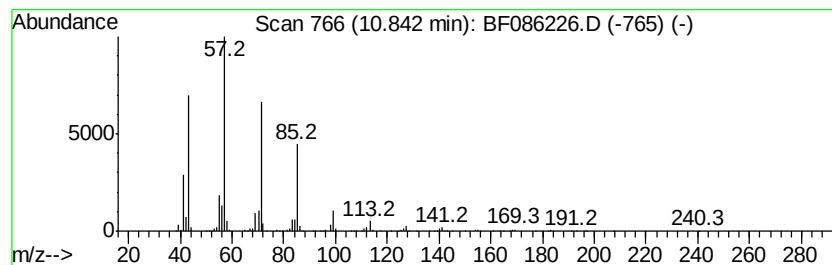
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ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.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 Eicosane Concentration Rank 7

| R.T.      | EstConc               | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------|--------|------------------|-------------|-------|
| 10.84     | 6.88 ng               | 808912 | Phenanthrene-d10 |             | 11.41 |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual  |
| 1         | Eicosane              | 282    | C20H42           | 000112-95-8 | 83    |
| 2         | Heptadecane           | 240    | C17H36           | 000629-78-7 | 76    |
| 3         | Hexadecane            | 226    | C16H34           | 000544-76-3 | 72    |
| 4         | Nonane, 5-butyl-      | 184    | C13H28           | 017312-63-9 | 68    |
| 5         | Nonane, 3,7-dimethyl- | 156    | C11H24           | 017302-32-8 | 64    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

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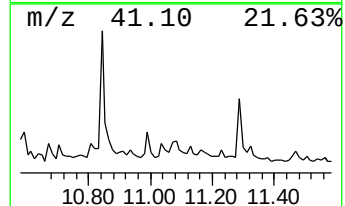
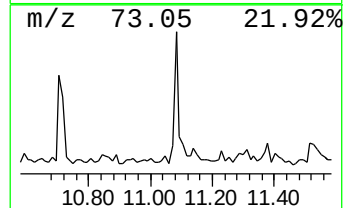
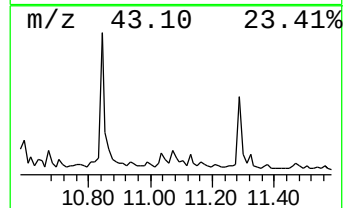
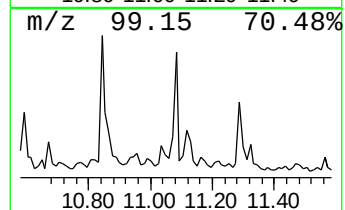
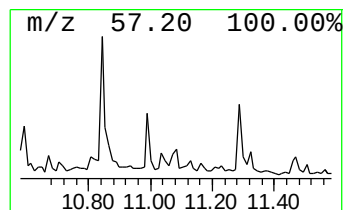
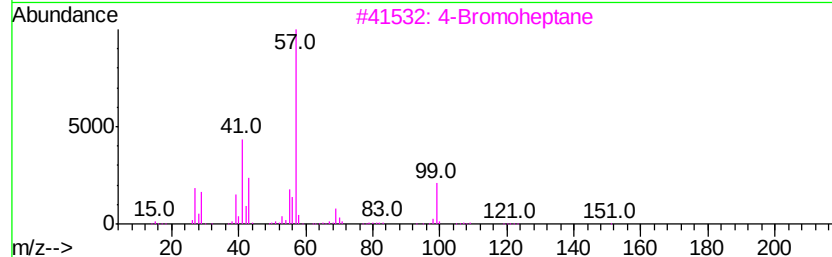
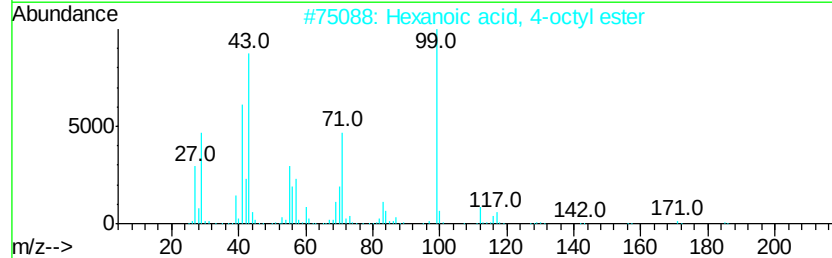
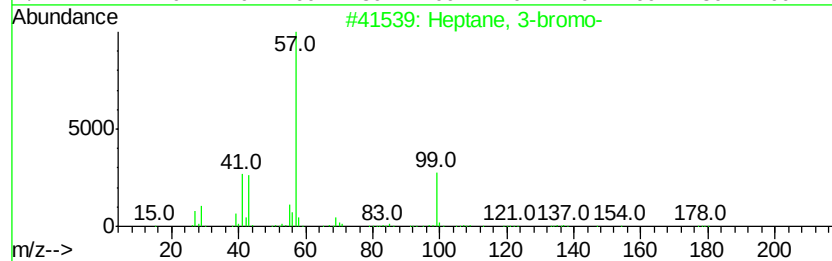
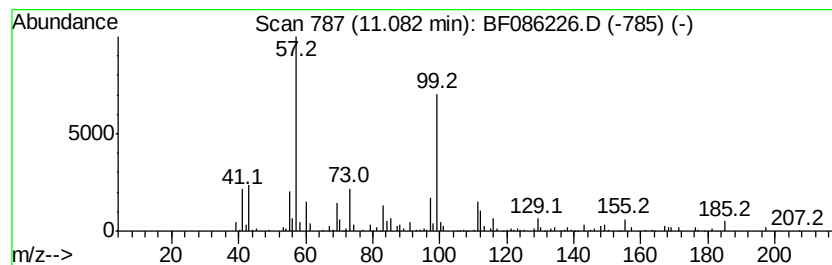
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 unknown11.08 Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.08 | 2.04 ng | 239480 | Phenanthrene-d10 | 11.41 |

| Hit# | of | Tentative ID                      | MW  | MolForm  | CAS#         | Qual |
|------|----|-----------------------------------|-----|----------|--------------|------|
| 1    | 5  | Heptane, 3-bromo-                 | 178 | C7H15Br  | 001974-05-6  | 35   |
| 2    |    | Hexanoic acid, 4-octyl ester      | 228 | C14H28O2 | 1000160-13-3 | 25   |
| 3    |    | 4-Bromoheptane                    | 178 | C7H15Br  | 000998-93-6  | 25   |
| 4    |    | 1,3,2-Dioxaborolane, 2,4-diethyl- | 128 | C6H13BO2 | 057633-63-3  | 22   |
| 5    |    | 2-Propylthiazole                  | 127 | C6H9NS   | 017626-75-4  | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

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

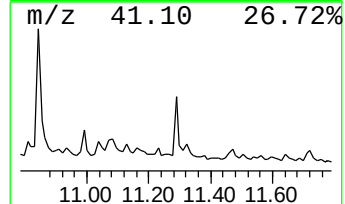
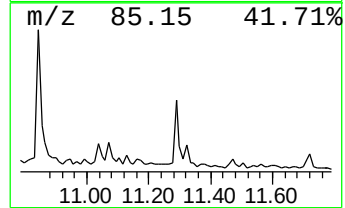
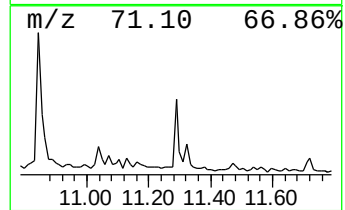
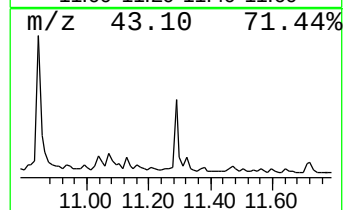
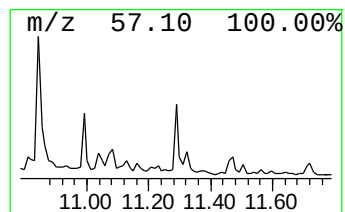
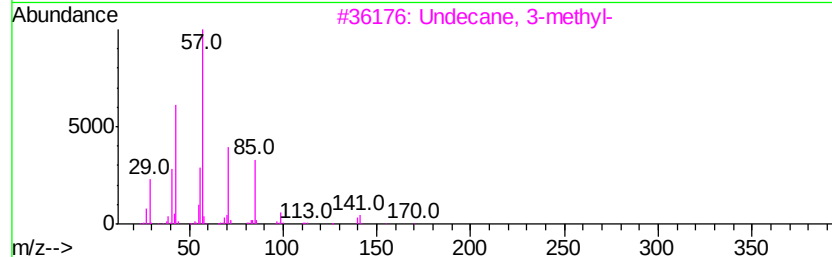
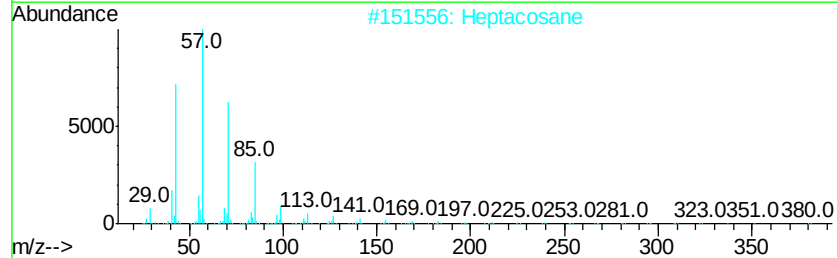
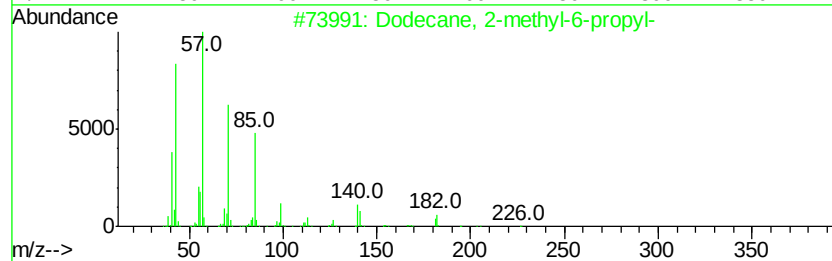
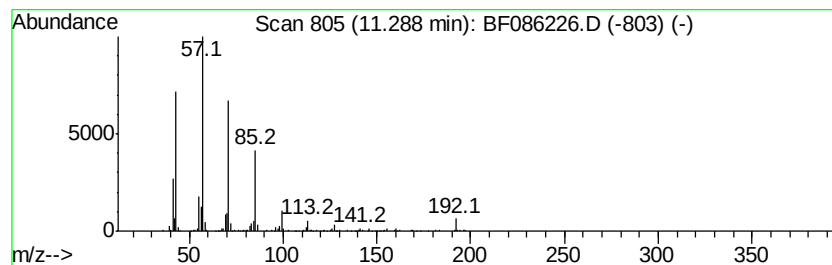
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Dodecane, 2-methyl-6-propyl- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.29 | 3.44 ng | 403952 | Phenanthrene-d10 | 11.41 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 80   |
| 2    |    | Heptacosane                  | 380 | C27H56  | 000593-49-7 | 78   |
| 3    |    | Undecane, 3-methyl-          | 170 | C12H26  | 001002-43-3 | 72   |
| 4    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 72   |
| 5    |    | Dodecane, 1-iodo-            | 296 | C12H25I | 004292-19-7 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

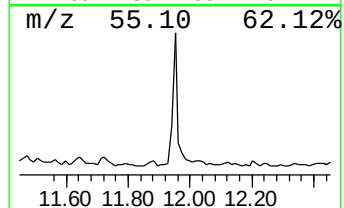
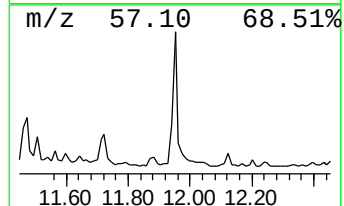
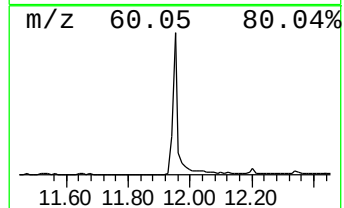
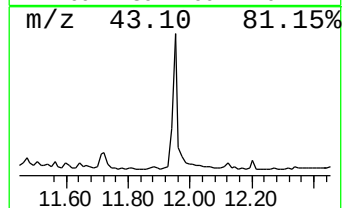
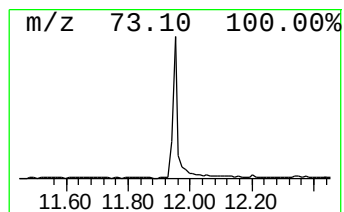
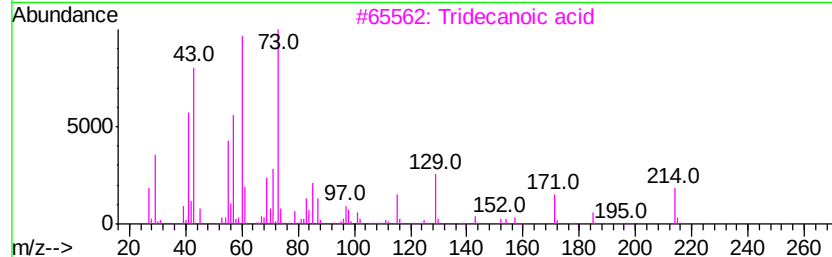
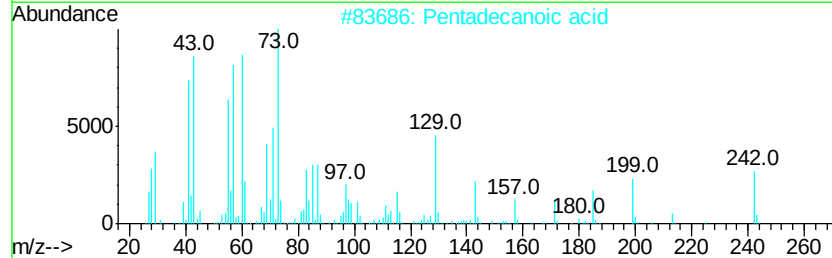
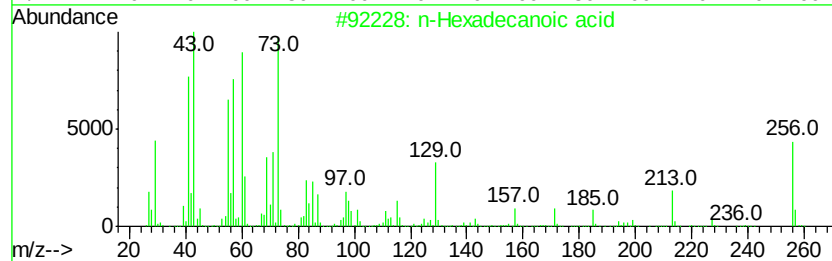
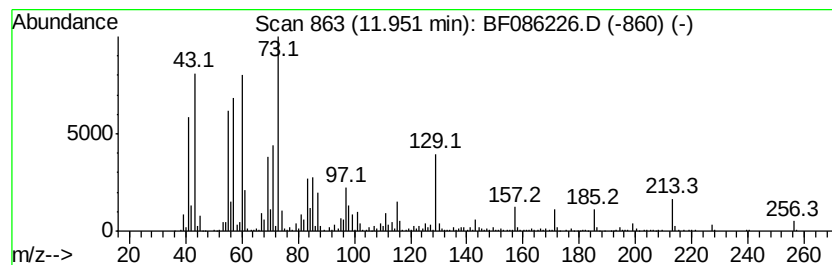
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 11.95 | 9.74 ng | 1144580 | Phenanthrene-d10 | 11.41 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 3    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 81   |
| 4    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 81   |
| 5    |    |   | Undecane, 5-methyl- | 170 | C12H26   | 001632-70-8 | 15   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

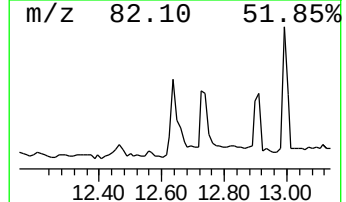
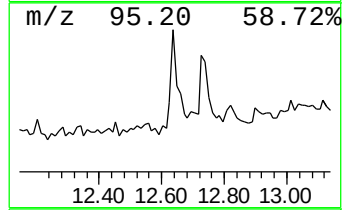
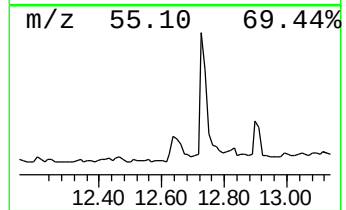
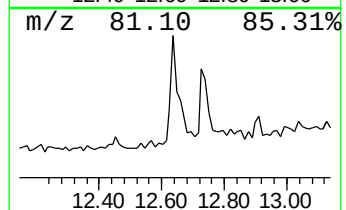
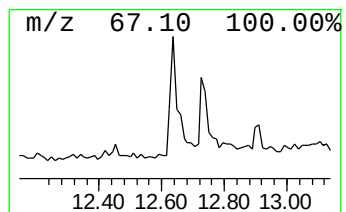
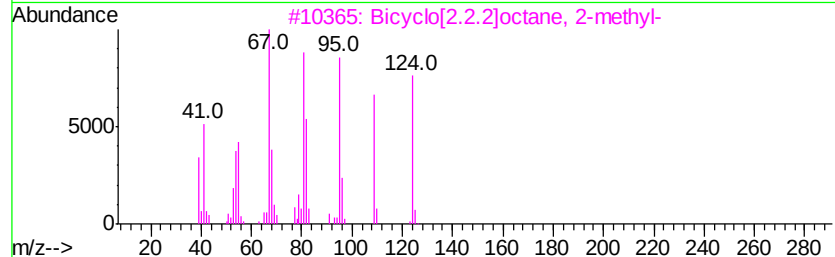
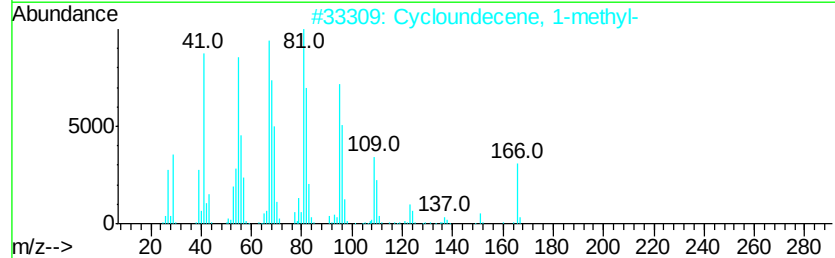
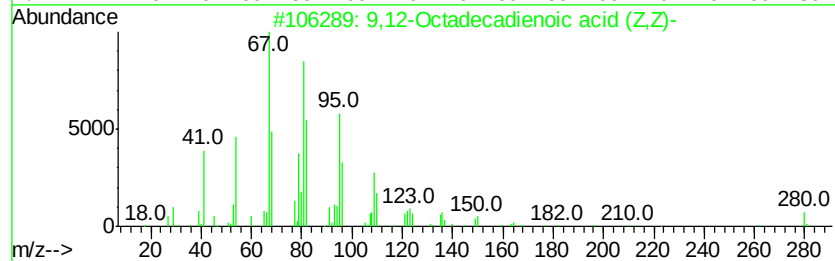
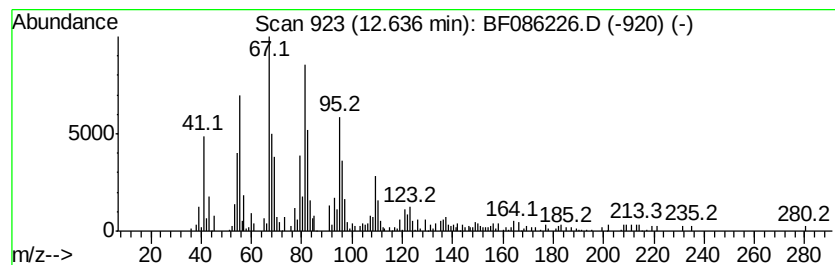
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 9,12-Octadecadienoic acid (... Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.64 | 2.80 ng | 328618 | Phenanthrene-d10 | 11.41 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------------|-----|----------|-------------|------|
| 1    |    |   | 9,12-Octadecadienoic acid (Z,Z)- | 280 | C18H32O2 | 000060-33-3 | 98   |
| 2    |    |   | Cycloundecene, 1-methyl-         | 166 | C12H22   | 088828-82-4 | 86   |
| 3    |    |   | Bicyclo[2.2.2]octane, 2-methyl-  | 124 | C9H16    | 000766-53-0 | 83   |
| 4    |    |   | cis-7-Dodecen-1-yl acetate       | 226 | C14H26O2 | 014959-86-5 | 72   |
| 5    |    |   | Hexylidencyclohexane             | 166 | C12H22   | 010201-62-4 | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

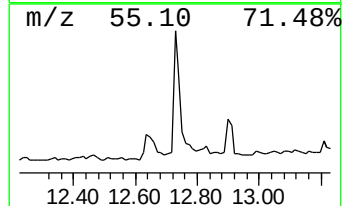
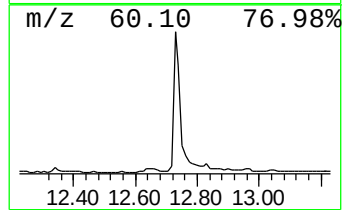
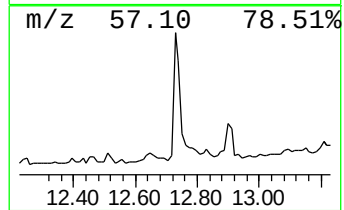
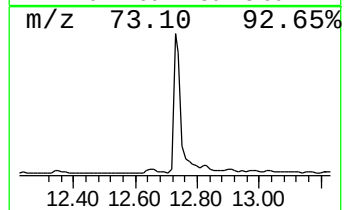
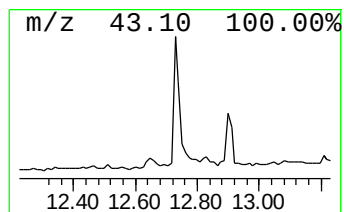
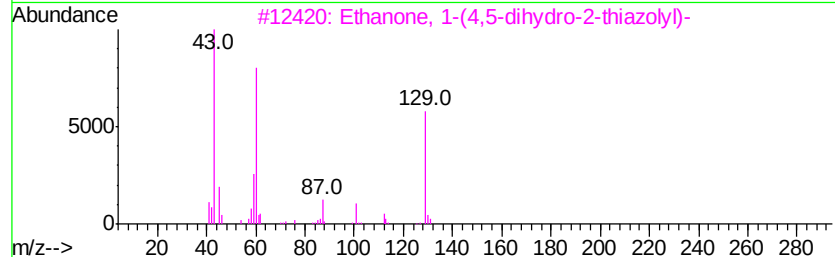
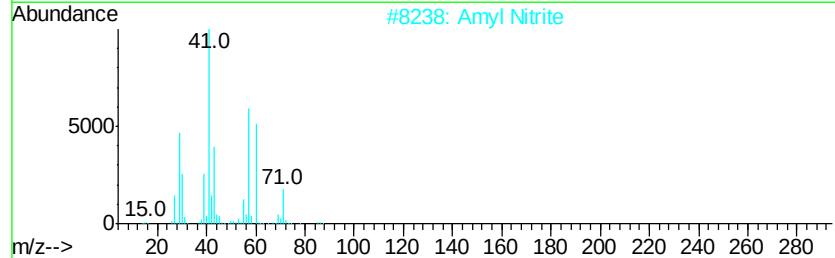
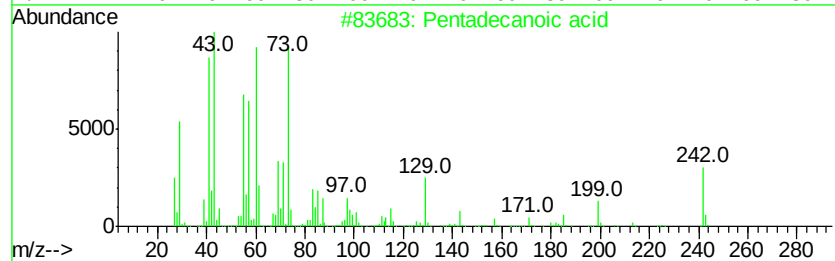
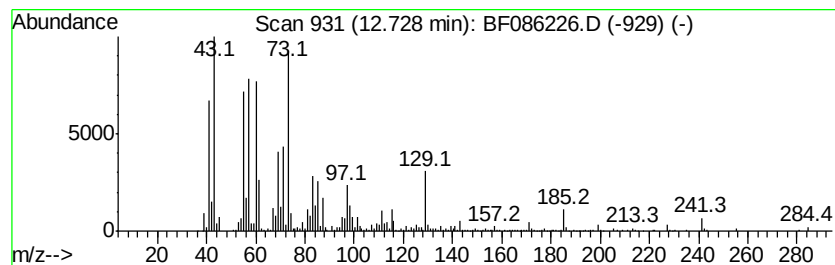
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown12.73 Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.73 | 11.32 ng | 1168610 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2  | 43   |
| 2    |    | Amyl Nitrite                        | 117 | C5H11NO2 | 000110-46-3  | 27   |
| 3    |    | Ethanone, 1-(4,5-dihydro-2-thiaz... | 129 | C5H7NOS  | 029926-41-8  | 27   |
| 4    |    | Methyl 2,6-anhydro-.alpha.-d-alt... | 176 | C7H12O5  | 1000130-02-0 | 22   |
| 5    |    | Hydroxylamine, O-decyl-             | 173 | C10H23NO | 029812-79-1  | 15   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

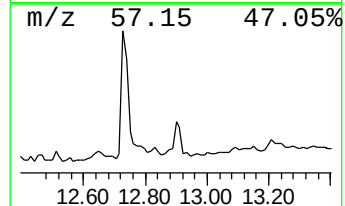
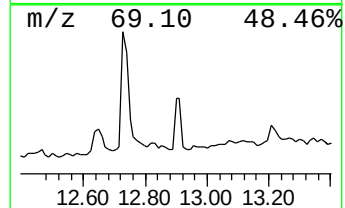
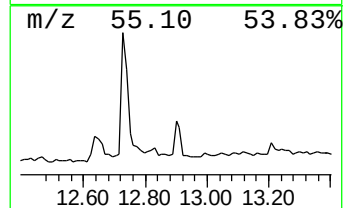
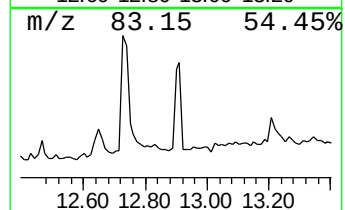
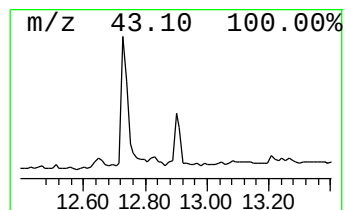
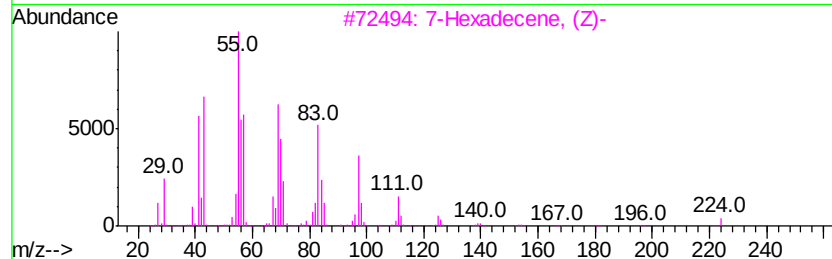
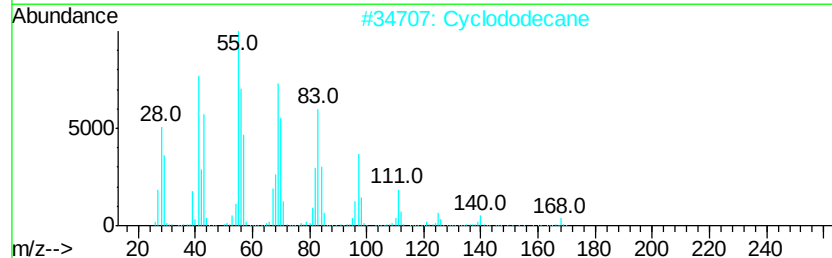
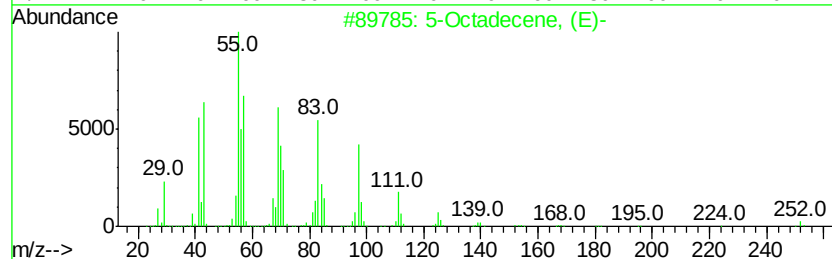
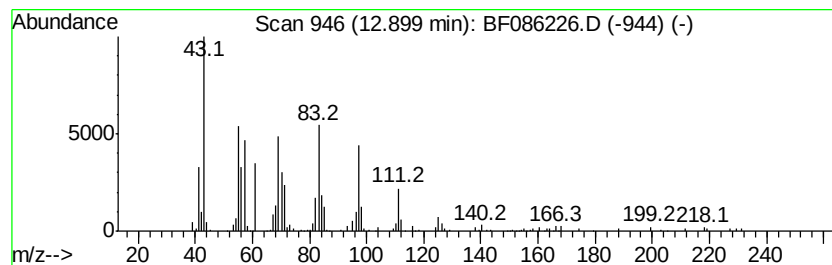
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 5-Octadecene, (E)- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.90 | 2.27 ng | 234339 | Chrysene-d12     | 14.04 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------|-----|----------|-------------|------|
| 1    |    |   | 5-Octadecene, (E)-      | 252 | C18H36   | 007206-21-5 | 87   |
| 2    |    |   | Cyclododecane           | 168 | C12H24   | 000294-62-2 | 80   |
| 3    |    |   | 7-Hexadecene, (Z)-      | 224 | C16H32   | 035507-09-6 | 80   |
| 4    |    |   | 1-Tetradecanol, acetate | 256 | C16H32O2 | 000638-59-5 | 68   |
| 5    |    |   | 1-Pentadecanol          | 228 | C15H32O  | 000629-76-5 | 68   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

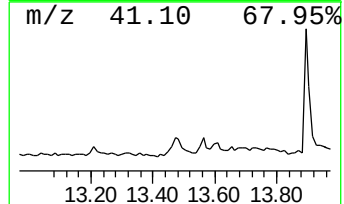
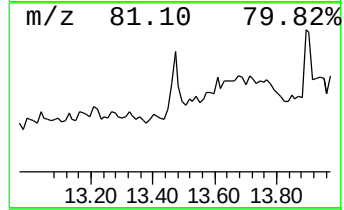
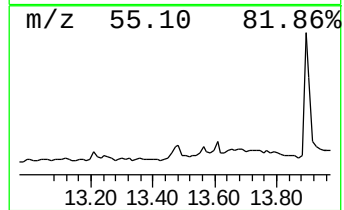
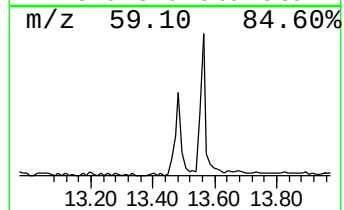
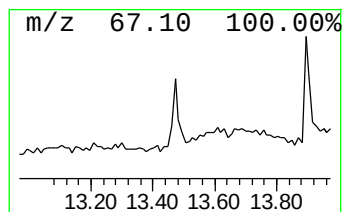
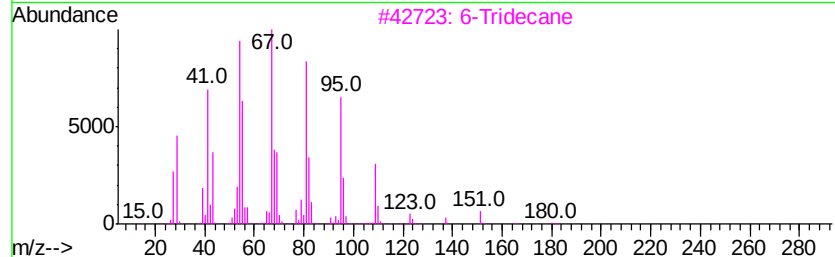
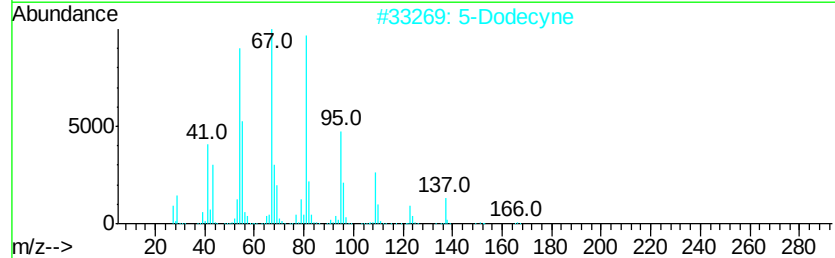
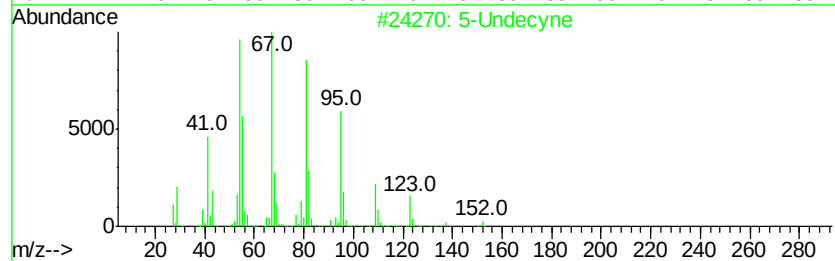
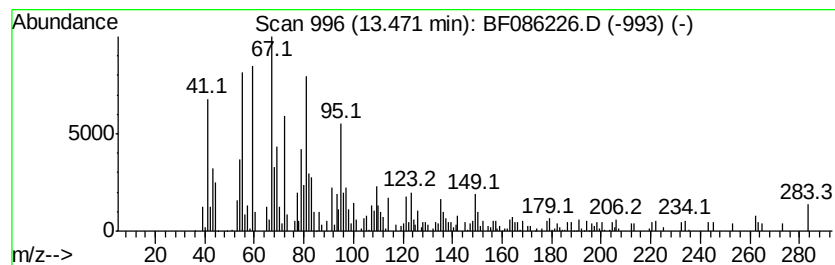
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 5-Undecyne Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.47 | 2.80 ng | 289279 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 5-Undecyne                         | 152 | C11H20  | 002294-72-6  | 78   |
| 2    |    | 5-Dodecyne                         | 166 | C12H22  | 019780-12-2  | 55   |
| 3    |    | 6-Tridecane                        | 180 | C13H24  | 042371-66-4  | 53   |
| 4    |    | 5-Nonadecen-1-ol                   | 282 | C19H38O | 1000131-11-9 | 43   |
| 5    |    | (R)-(-)-14-Methyl-8-hexadecyn-1-ol | 252 | C17H32O | 064566-18-3  | 41   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

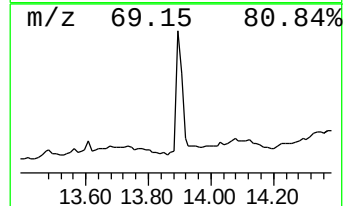
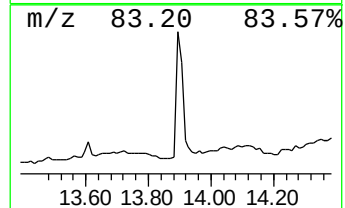
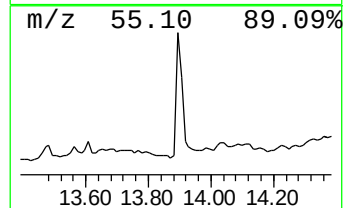
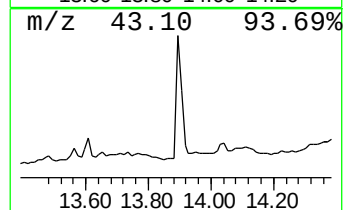
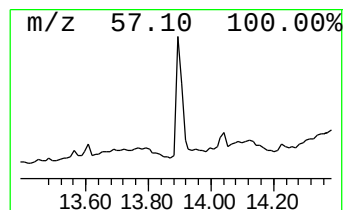
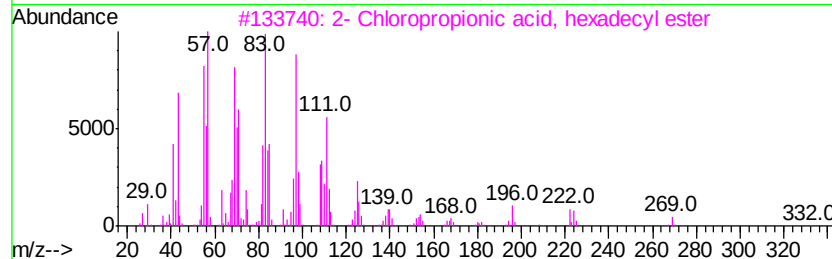
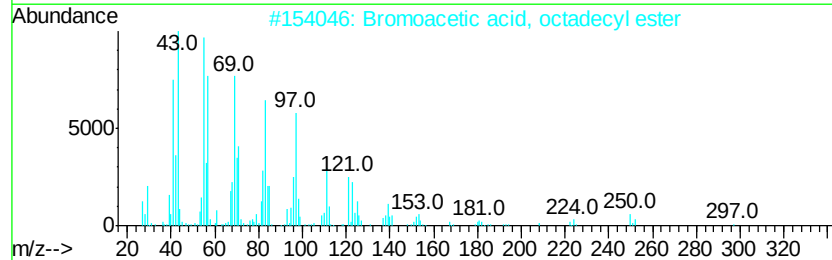
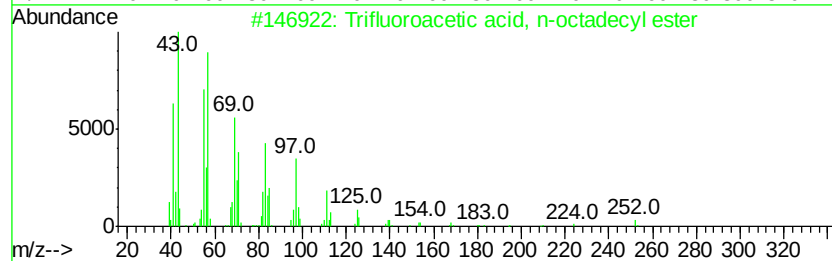
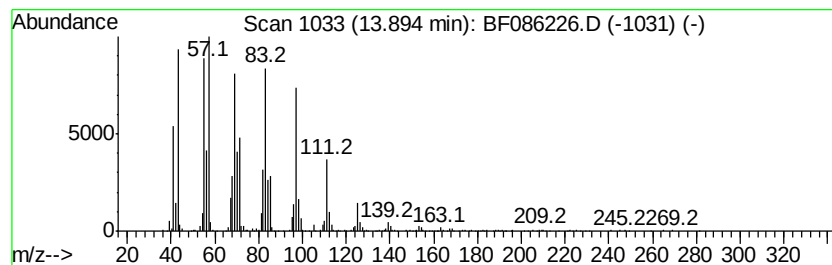
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Trifluoroacetic acid, n-oct... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.89 | 10.73 ng | 1107710 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#        | Qual |
|------|----|--------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Trifluoroacetic acid, n-octadecyl... | 366 | C20H37F3O2 | 079392-43-1 | 91   |
| 2    |    | Bromoacetic acid, octadecyl ester    | 390 | C20H39BrO2 | 018992-03-5 | 91   |
| 3    |    | 2- Chloropropionic acid, hexadec...  | 332 | C19H37ClO2 | 086711-81-1 | 91   |
| 4    |    | 1-Nonadecene                         | 266 | C19H38     | 018435-45-5 | 91   |
| 5    |    | 3-Eicosene, (E)-                     | 280 | C20H40     | 074685-33-9 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

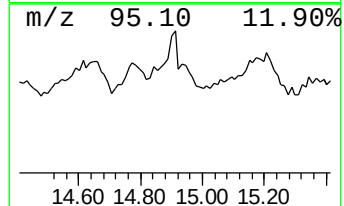
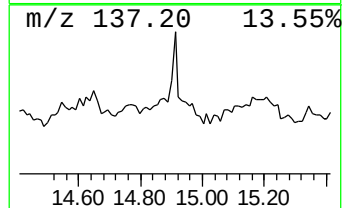
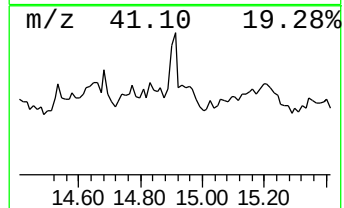
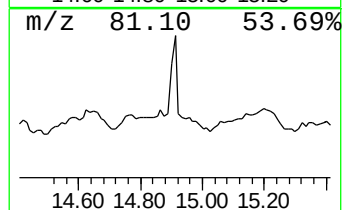
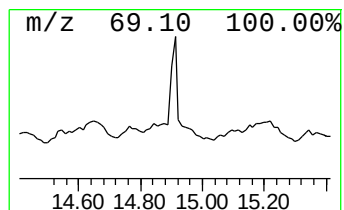
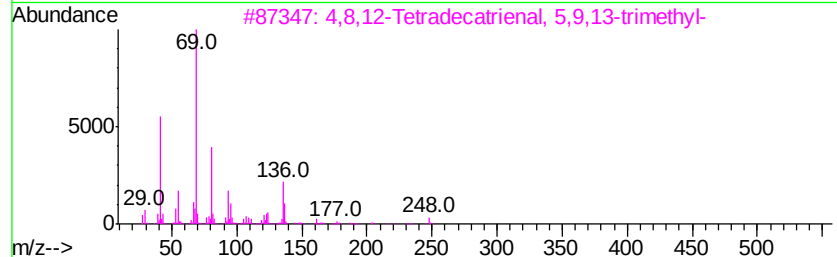
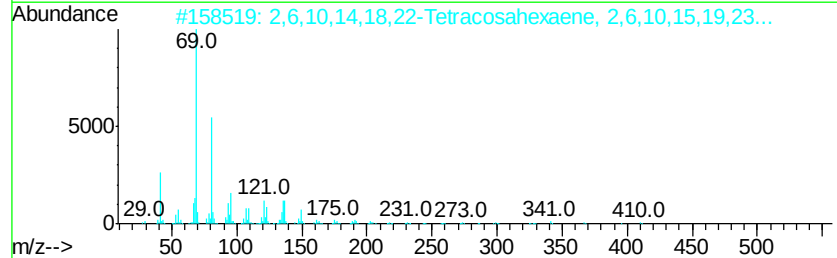
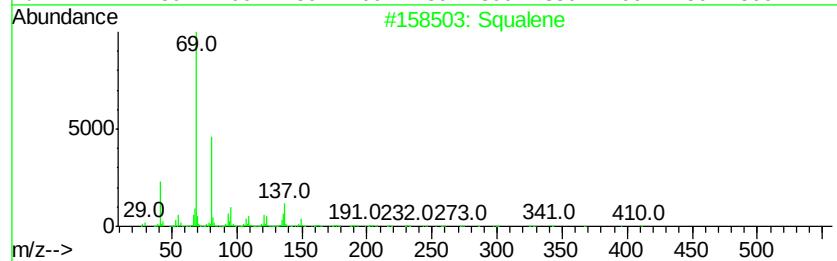
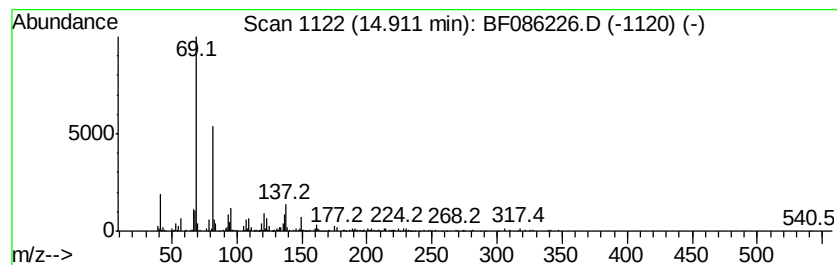
Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.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 16 Squalene Concentration Rank 15

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.           |
|---------|-------------------------------------|--------------|------------------|----------------|
| 14.91   | 2.41 ng                             | 164978       | Perylene-d12     | 15.48          |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Squalene                            |              | 410 C30H50       | 007683-64-9 87 |
| 2       | 2,6,10,14,18,22-Tetracosahexaene... |              | 410 C30H50       | 000111-02-4 83 |
| 3       | 4,8,12-Tetradecatrienal, 5,9,13-... |              | 248 C17H28O      | 066408-55-7 80 |
| 4       | 3,7,11-Trimethyl-dodeca-2,6,10-t... |              | 236 C15H24O2     | 007548-13-2 64 |
| 5       | 4,8,12-Tetradecatrienenitrile, 5... |              | 245 C17H27N      | 005981-31-7 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

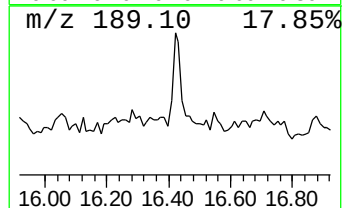
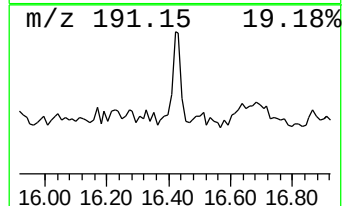
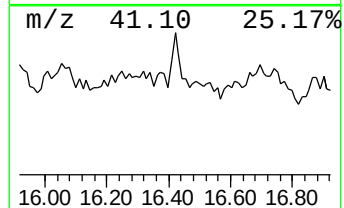
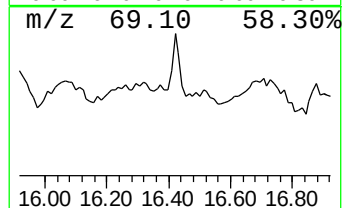
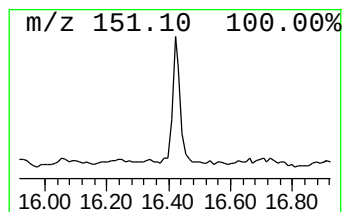
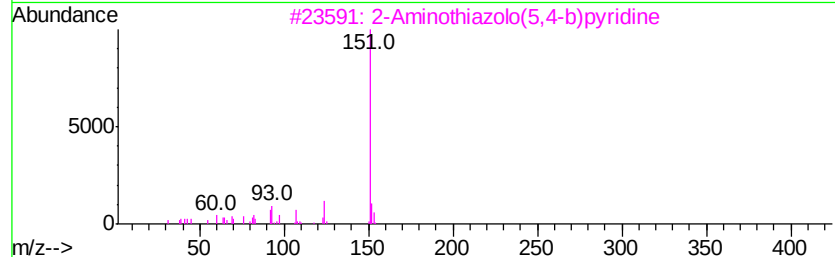
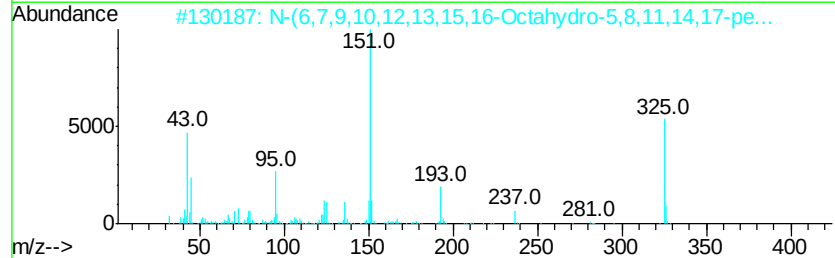
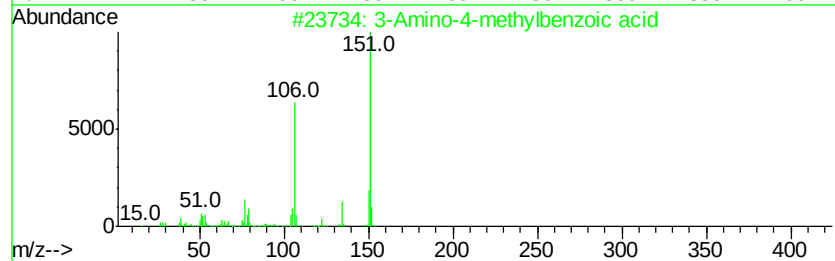
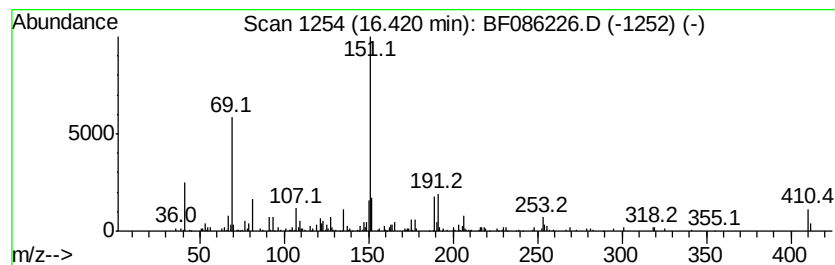
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown16.42 Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.42 | 2.89 ng | 198025 | Perylene-d12     | 15.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 3-Amino-4-methylbenzoic acid        | 151 | C8H9NO2   | 002458-12-0 | 49   |
| 2    |    | N-(6,7,9,10,12,13,15,16-Octahydr... | 325 | C16H23NO6 | 077001-48-0 | 47   |
| 3    |    | 2-Aminothiazolo(5,4-b)pyridine      | 151 | C6H5N3S   | 031784-70-0 | 43   |
| 4    |    | Phenol, 2,6-dimethyl-4-nitroso-     | 151 | C8H9NO2   | 013331-93-6 | 38   |
| 5    |    | 3-Hydroxy-7-methoxy-3-phenyl-4-c... | 270 | C16H14O4  | 018380-57-9 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041516\  
Data File : BF086226.D  
Acq On : 15 Apr 2016 19:48  
Operator : UM/SJ  
Sample : H2402-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

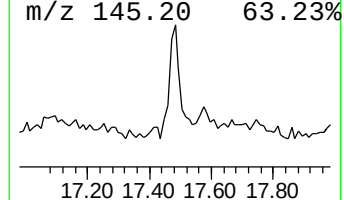
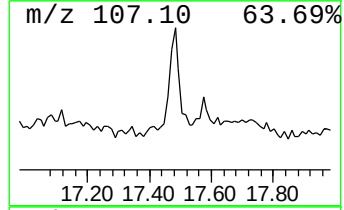
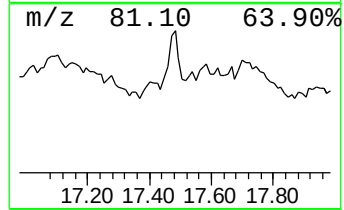
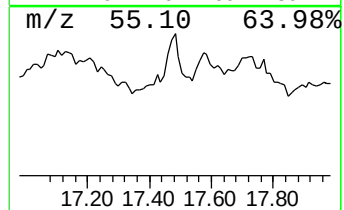
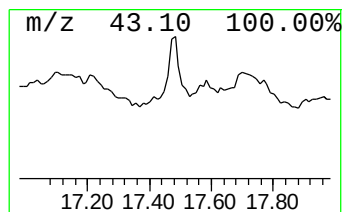
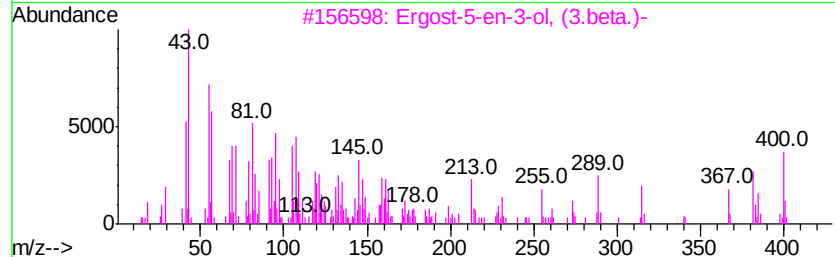
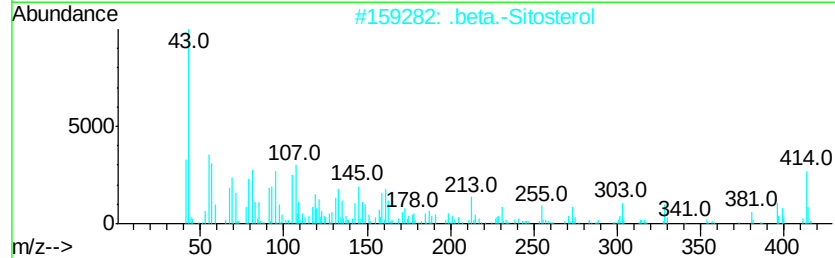
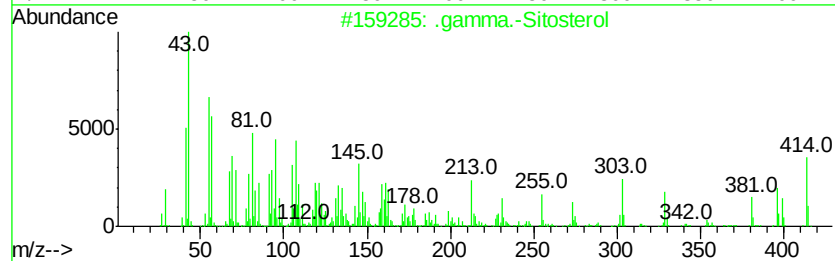
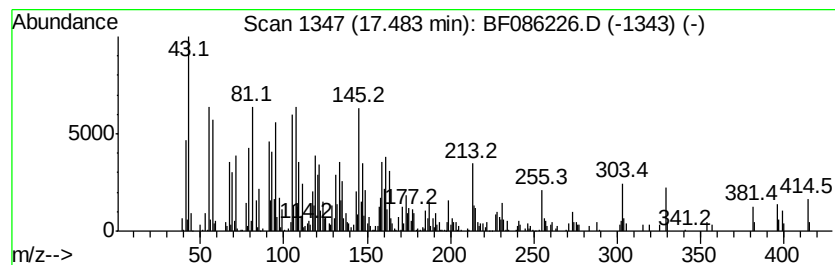
Instrument :  
BNA\_F  
ClientSampleId :  
GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.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 18 .gamma.-Sitosterol Concentration Rank 6

| R.T.      | EstConc                      | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------|--------|------------------|-------------|------|
| 17.48     | 8.92 ng                      | 611941 | Perylene-d12     | 15.48       |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#        | Qual |
| 1         | .gamma.-Sitosterol           | 414    | C29H50O          | 000083-47-6 | 90   |
| 2         | .beta.-Sitosterol            | 414    | C29H50O          | 000083-46-5 | 89   |
| 3         | Ergost-5-en-3-ol, (3.beta.)- | 400    | C28H48O          | 004651-51-8 | 68   |
| 4         | Campesterol                  | 400    | C28H48O          | 000474-62-4 | 59   |
| 5         | Isocholesteryl methyl ether  | 400    | C28H48O          | 029944-53-4 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
 Data File : BF086226.D  
 Acq On : 15 Apr 2016 19:48  
 Operator : UM/SJ  
 Sample : H2402-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-01S-4-7-16

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.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 |
| Propane, 1,1-dime... | 2.14  | 2.4     | ng    | 206398   | 1                     | 6.89  | 1725280 | 20.0 |
| unknown6.65          | 6.65  | 10.4    | ng    | 896948   | 1                     | 6.89  | 1725280 | 20.0 |
| Hexadecane           | 9.87  | 3.0     | ng    | 369846   | 3                     | 9.93  | 2486730 | 20.0 |
| Pentadecane          | 10.37 | 5.0     | ng    | 627142   | 3                     | 9.93  | 2486730 | 20.0 |
| Heptacosane          | 10.59 | 3.3     | ng    | 415081   | 3                     | 9.93  | 2486730 | 20.0 |
| Eicosane             | 10.84 | 6.9     | ng    | 808912   | 4                     | 11.41 | 2350070 | 20.0 |
| unknown11.08         | 11.08 | 2.0     | ng    | 239480   | 4                     | 11.41 | 2350070 | 20.0 |
| Dodecane, 2-methy... | 11.29 | 3.4     | ng    | 403952   | 4                     | 11.41 | 2350070 | 20.0 |
| n-Hexadecanoic acid  | 11.95 | 9.7     | ng    | 1144580  | 4                     | 11.41 | 2350070 | 20.0 |
| 9,12-Octadecadien... | 12.64 | 2.8     | ng    | 328618   | 4                     | 11.41 | 2350070 | 20.0 |
| unknown12.73         | 12.73 | 11.3    | ng    | 1168610  | 5                     | 14.04 | 2065320 | 20.0 |
| 5-Octadecene, (E)-   | 12.90 | 2.3     | ng    | 234339   | 5                     | 14.04 | 2065320 | 20.0 |
| 5-Undecyne           | 13.47 | 2.8     | ng    | 289279   | 5                     | 14.04 | 2065320 | 20.0 |
| Trifluoroacetic a... | 13.89 | 10.7    | ng    | 1107710  | 5                     | 14.04 | 2065320 | 20.0 |
| Squalene             | 14.91 | 2.4     | ng    | 164978   | 6                     | 15.48 | 1371510 | 20.0 |
| unknown16.42         | 16.42 | 2.9     | ng    | 198025   | 6                     | 15.48 | 1371510 | 20.0 |
| .gamma.-Sitosterol   | 17.48 | 8.9     | ng    | 611941   | 6                     | 15.48 | 1371510 | 20.0 |