

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086944.D  
 Acq On : 12 May 2016 21:51  
 Operator : UM/SJ  
 Sample : H2968-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-02

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-BF050916.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         | 1.747       | 12            | 14          | 64           | rVB      | 3986804        | 9013210       | 100.00%         | 17.259%       |
| 2         | 4.742       | 275           | 276         | 285          | rBV      | 83694          | 137106        | 1.52%           | 0.263%        |
| 3         | 5.210       | 315           | 317         | 333          | rBV      | 1400623        | 1620176       | 17.98%          | 3.102%        |
| 4         | 6.285       | 409           | 411         | 419          | rBV      | 1915269        | 2073954       | 23.01%          | 3.971%        |
| 5         | 6.399       | 419           | 421         | 424          | rVV      | 1226731        | 1759257       | 19.52%          | 3.369%        |
| 6         | 6.616       | 438           | 440         | 443          | rBV      | 1089351        | 1103621       | 12.24%          | 2.113%        |
| 7         | 6.776       | 451           | 454         | 456          | rBV      | 1449344        | 1300817       | 14.43%          | 2.491%        |
| 8         | 7.187       | 488           | 490         | 493          | rBV      | 1129336        | 1214046       | 13.47%          | 2.325%        |
| 9         | 7.908       | 551           | 553         | 555          | rBV      | 1727580        | 1491918       | 16.55%          | 2.857%        |
| 10        | 8.982       | 645           | 647         | 650          | rBV      | 1670154        | 2114693       | 23.46%          | 4.049%        |
| 11        | 9.393       | 681           | 683         | 684          | rBV      | 143337         | 195499        | 2.17%           | 0.374%        |
| 12        | 9.599       | 699           | 701         | 703          | rBV      | 104178         | 101277        | 1.12%           | 0.194%        |
| 13        | 9.656       | 703           | 706         | 708          | rBV      | 1736647        | 1540107       | 17.09%          | 2.949%        |
| 14        | 10.102      | 743           | 745         | 746          | rBV      | 152298         | 122678        | 1.36%           | 0.235%        |
| 15        | 10.445      | 772           | 775         | 777          | rBV      | 1448137        | 1462541       | 16.23%          | 2.801%        |
| 16        | 10.571      | 784           | 786         | 792          | rBV      | 164797         | 186553        | 2.07%           | 0.357%        |
| 17        | 11.016      | 823           | 825         | 830          | rVB2     | 75993          | 106895        | 1.19%           | 0.205%        |
| 18        | 11.108      | 830           | 833         | 834          | rBV      | 165253         | 236377        | 2.62%           | 0.453%        |
| 19        | 11.131      | 834           | 835         | 840          | rVV2     | 1475859        | 1854070       | 20.57%          | 3.550%        |
| 20        | 11.371      | 853           | 856         | 860          | rBV2     | 62448          | 112471        | 1.25%           | 0.215%        |
| 21        | 11.611      | 874           | 877         | 878          | rBV      | 134779         | 167630        | 1.86%           | 0.321%        |
| 22        | 11.645      | 878           | 880         | 882          | rVV3     | 351647         | 546429        | 6.06%           | 1.046%        |
| 23        | 11.691      | 882           | 884         | 887          | rVV      | 491177         | 768366        | 8.52%           | 1.471%        |
| 24        | 11.736      | 887           | 888         | 894          | rVV2     | 105229         | 204420        | 2.27%           | 0.391%        |
| 25        | 11.862      | 894           | 899         | 903          | rVV      | 86069          | 177287        | 1.97%           | 0.339%        |
| 26        | 11.954      | 906           | 907         | 910          | rVB      | 106035         | 100010        | 1.11%           | 0.192%        |
| 27        | 12.342      | 938           | 941         | 943          | rBV      | 778009         | 968378        | 10.74%          | 1.854%        |
| 28        | 12.399      | 943           | 946         | 950          | rVV3     | 126673         | 267963        | 2.97%           | 0.513%        |
| 29        | 12.468      | 950           | 952         | 957          | rVV3     | 125176         | 279819        | 3.10%           | 0.536%        |
| 30        | 12.559      | 957           | 960         | 963          | rVV2     | 786665         | 952847        | 10.57%          | 1.825%        |
| 31        | 12.617      | 963           | 965         | 969          | rVV4     | 41232          | 95592         | 1.06%           | 0.183%        |
| 32        | 12.719      | 972           | 974         | 976          | rVV      | 1970606        | 2151094       | 23.87%          | 4.119%        |
| 33        | 12.891      | 985           | 989         | 991          | rVB2     | 109042         | 173329        | 1.92%           | 0.332%        |
| 34        | 12.959      | 991           | 995         | 996          | rBV      | 132557         | 151329        | 1.68%           | 0.290%        |

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 ALS Vial : 18 Sample Multiplier: 1

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 ClientSampleId :  
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Integration Parameters: rteint.p  
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 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-BF050916.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.994 | 996  | 998  | 1002 | rVB2 | 103072  | 139690  | 1.55%  | 0.267% |
| 36 | 13.302 | 1021 | 1025 | 1030 | rBV5 | 31870   | 90350   | 1.00%  | 0.173% |
| 37 | 13.405 | 1030 | 1034 | 1036 | rBV  | 75705   | 141058  | 1.57%  | 0.270% |
| 38 | 13.508 | 1040 | 1043 | 1044 | rBV  | 114026  | 121406  | 1.35%  | 0.232% |
| 39 | 13.554 | 1044 | 1047 | 1050 | rVV3 | 67957   | 179166  | 1.99%  | 0.343% |
| 40 | 13.622 | 1050 | 1053 | 1057 | rVV2 | 185022  | 306294  | 3.40%  | 0.587% |
| 41 | 13.760 | 1061 | 1065 | 1071 | rBV2 | 1257838 | 2185194 | 24.24% | 4.184% |
| 42 | 14.148 | 1094 | 1099 | 1100 | rBV  | 95495   | 182247  | 2.02%  | 0.349% |
| 43 | 14.251 | 1105 | 1108 | 1115 | rVV5 | 177684  | 457789  | 5.08%  | 0.877% |
| 44 | 14.457 | 1123 | 1126 | 1130 | rBV4 | 45240   | 142252  | 1.58%  | 0.272% |
| 45 | 14.525 | 1130 | 1132 | 1137 | rVV3 | 73250   | 220519  | 2.45%  | 0.422% |
| 46 | 14.605 | 1137 | 1139 | 1142 | rVV2 | 123870  | 196237  | 2.18%  | 0.376% |
| 47 | 14.663 | 1142 | 1144 | 1147 | rVV  | 1067731 | 1290959 | 14.32% | 2.472% |
| 48 | 14.754 | 1149 | 1152 | 1156 | rVV  | 610873  | 1067297 | 11.84% | 2.044% |
| 49 | 14.857 | 1156 | 1161 | 1166 | rVV2 | 1422636 | 2421765 | 26.87% | 4.637% |
| 50 | 14.971 | 1170 | 1171 | 1173 | rVV  | 65455   | 100326  | 1.11%  | 0.192% |
| 51 | 15.017 | 1173 | 1175 | 1177 | rVV  | 277975  | 405393  | 4.50%  | 0.776% |
| 52 | 15.063 | 1177 | 1179 | 1182 | rVB  | 417637  | 506534  | 5.62%  | 0.970% |
| 53 | 15.120 | 1182 | 1184 | 1190 | rBV  | 885080  | 1215876 | 13.49% | 2.328% |
| 54 | 15.325 | 1199 | 1202 | 1205 | rBV  | 490362  | 591151  | 6.56%  | 1.132% |
| 55 | 15.520 | 1216 | 1219 | 1222 | rBV  | 490888  | 742643  | 8.24%  | 1.422% |
| 56 | 15.577 | 1222 | 1224 | 1228 | rVV2 | 128050  | 286248  | 3.18%  | 0.548% |
| 57 | 15.725 | 1235 | 1237 | 1241 | rVB3 | 53215   | 101071  | 1.12%  | 0.194% |
| 58 | 16.183 | 1264 | 1277 | 1287 | rVB3 | 420181  | 1884060 | 20.90% | 3.608% |
| 59 | 16.366 | 1290 | 1293 | 1296 | rBV  | 251189  | 464700  | 5.16%  | 0.890% |
| 60 | 16.434 | 1296 | 1299 | 1302 | rVB  | 225415  | 400759  | 4.45%  | 0.767% |
| 61 | 16.514 | 1302 | 1306 | 1309 | rBV3 | 64457   | 167290  | 1.86%  | 0.320% |
| 62 | 16.743 | 1322 | 1326 | 1329 | rBV  | 150905  | 309595  | 3.43%  | 0.593% |
| 63 | 16.834 | 1330 | 1334 | 1340 | rVV2 | 132040  | 393441  | 4.37%  | 0.753% |
| 64 | 17.246 | 1365 | 1370 | 1373 | rBV6 | 34456   | 121405  | 1.35%  | 0.232% |
| 65 | 17.360 | 1378 | 1380 | 1387 | rVB3 | 60638   | 156102  | 1.73%  | 0.299% |
| 66 | 17.680 | 1404 | 1408 | 1413 | rBV2 | 93204   | 239856  | 2.66%  | 0.459% |
| 67 | 18.629 | 1487 | 1491 | 1498 | rVB  | 35158   | 122599  | 1.36%  | 0.235% |
| 68 | 19.326 | 1548 | 1552 | 1559 | rVB9 | 35323   | 119968  | 1.33%  | 0.230% |

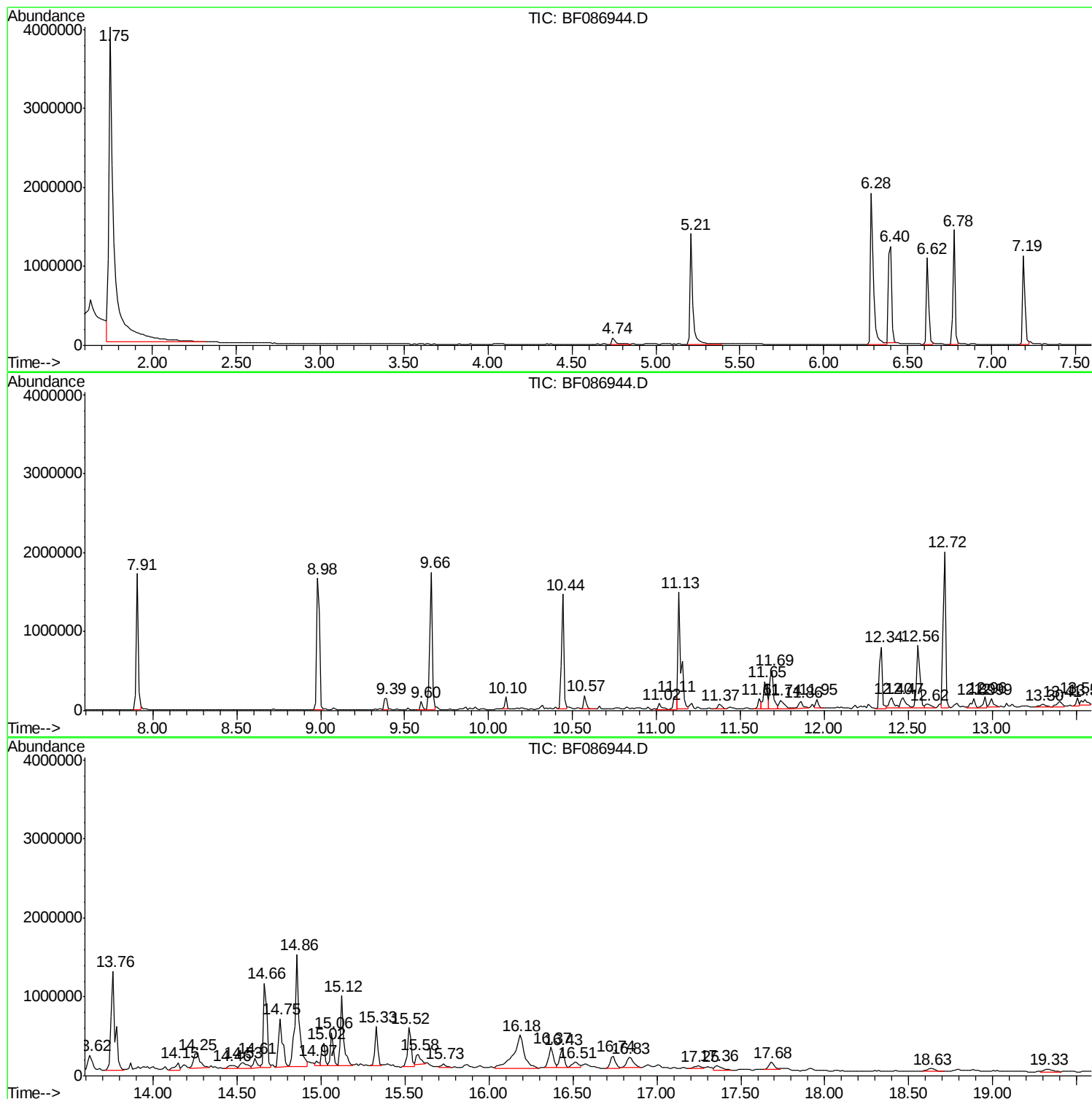
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Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
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Sample : H2968-09  
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Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

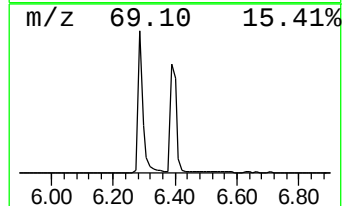
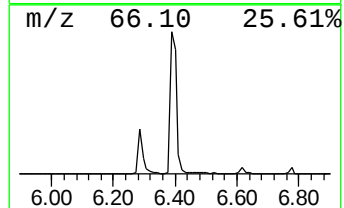
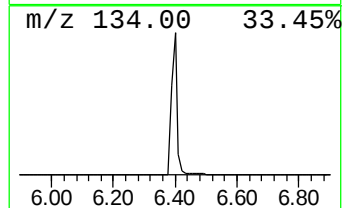
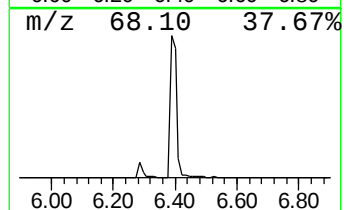
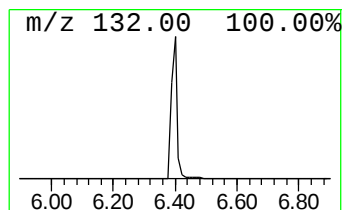
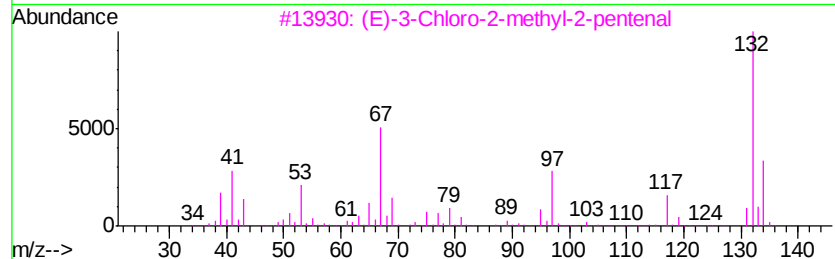
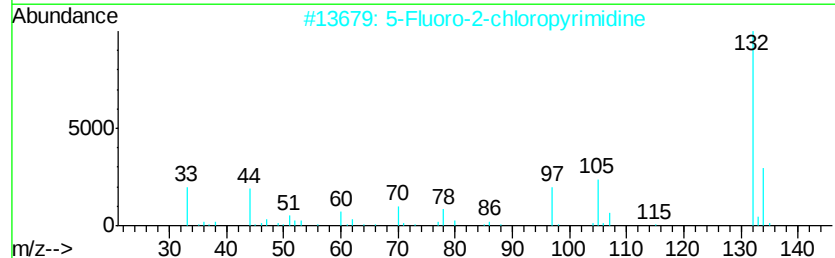
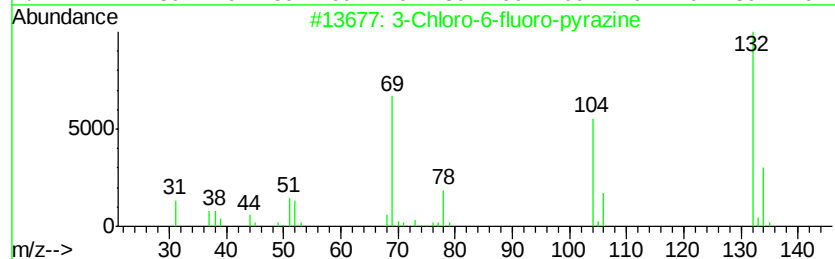
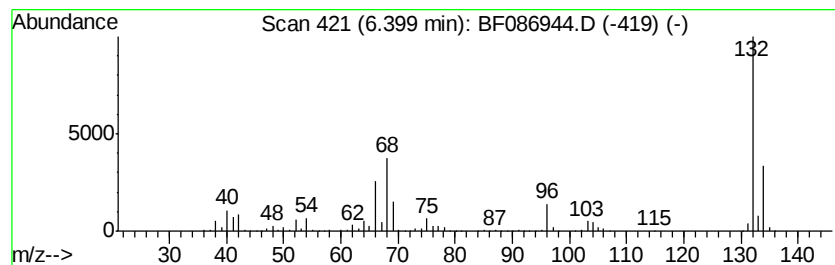
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.40 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.40 | 31.88 ng | 1759260 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 25   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |



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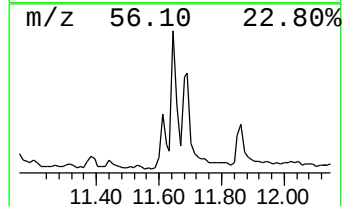
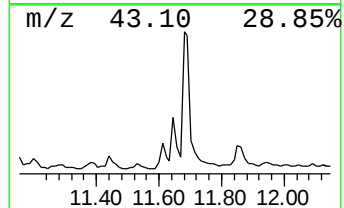
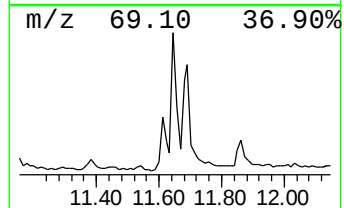
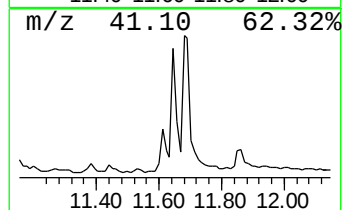
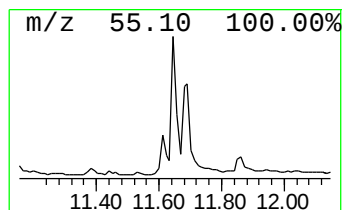
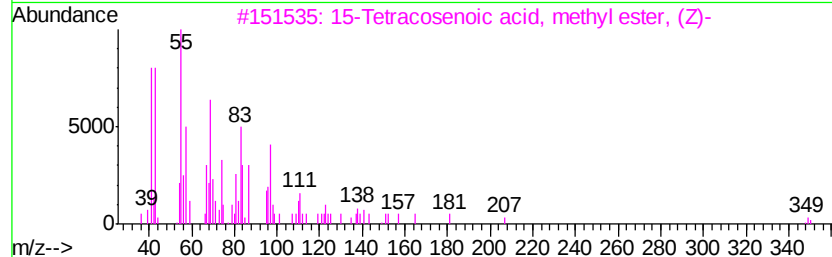
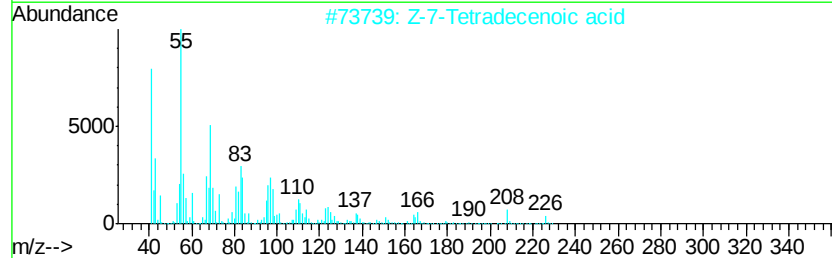
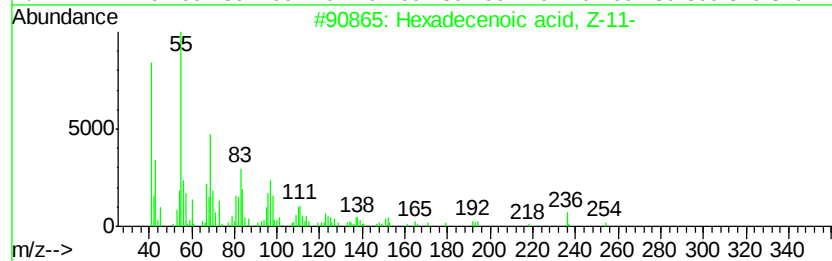
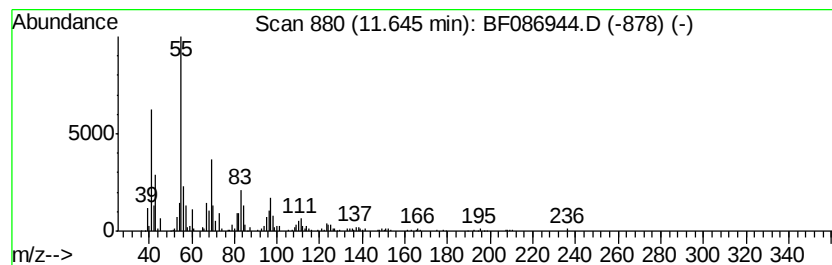
Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Hexadecenoic acid, Z-11- Concentration Rank 12

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 11.65     | 5.89 ng                             | 546429 | Phenanthrene-d10 | 11.13        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Hexadecenoic acid, Z-11-            | 254    | C16H30O2         | 002416-20-8  | 90   |
| 2         | Z-7-Tetradecenoic acid              | 226    | C14H26O2         | 1000130-98-4 | 52   |
| 3         | 15-Tetracosenoic acid, methyl es... | 380    | C25H48O2         | 002733-88-2  | 49   |
| 4         | Cycloheptane, methyl-               | 112    | C8H16            | 004126-78-7  | 47   |
| 5         | Cyclotridecane                      | 182    | C13H26           | 000295-02-3  | 47   |



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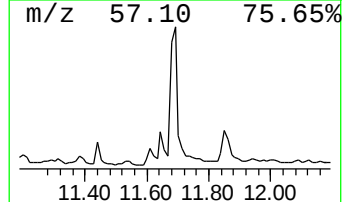
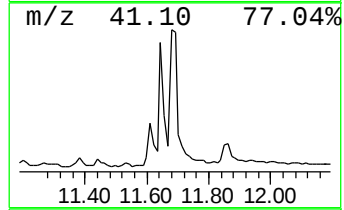
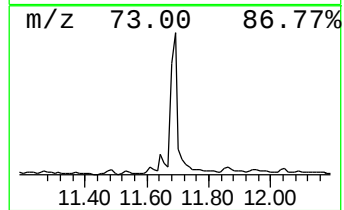
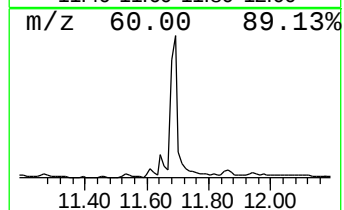
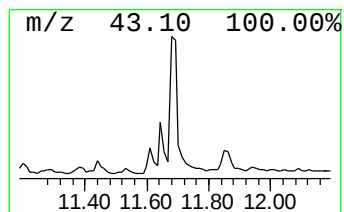
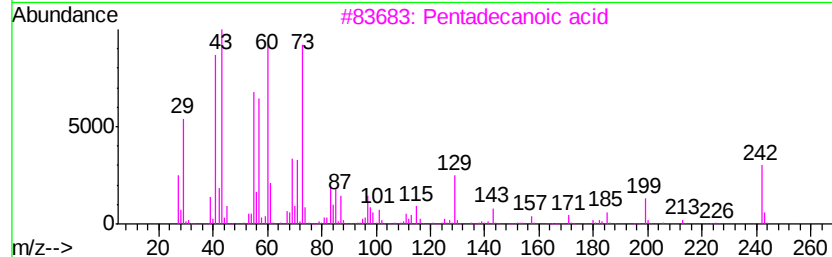
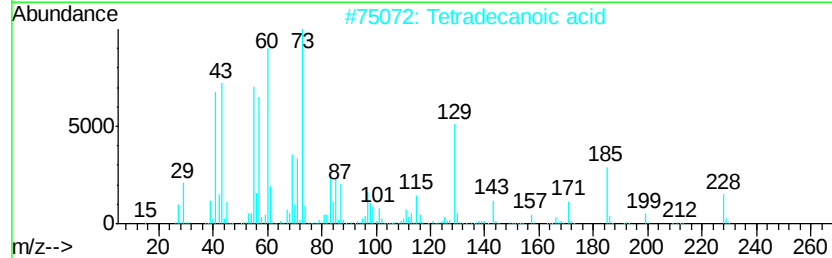
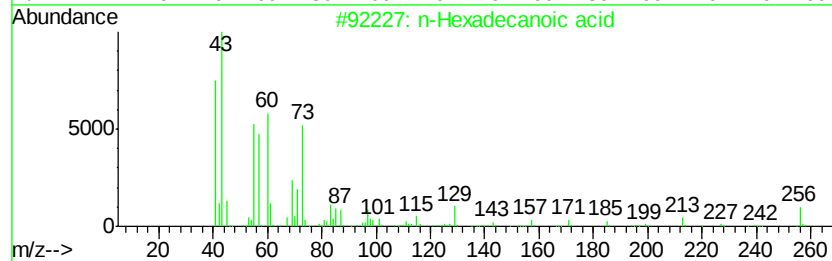
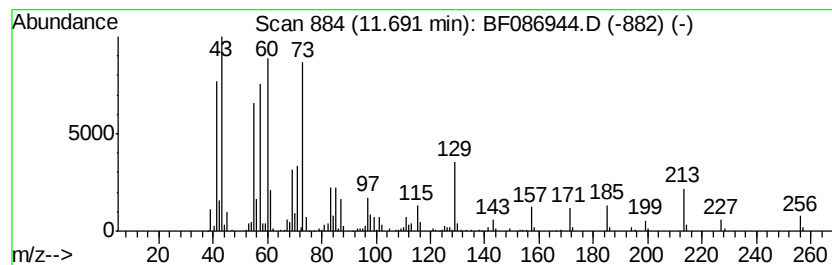
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.69 | 8.29 ng | 768366 | Phenanthrene-d10 | 11.13 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 92   |
| 2       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 80   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 72   |
| 4       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 72   |
| 5       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 53   |



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ALS Vial : 18 Sample Multiplier: 1

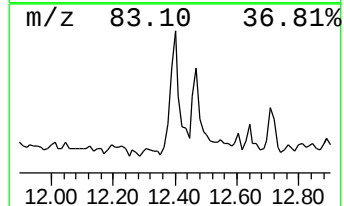
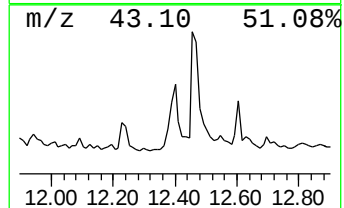
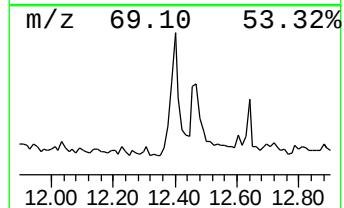
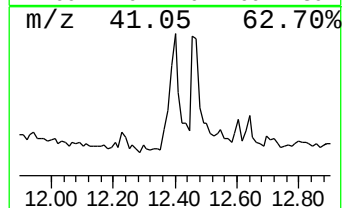
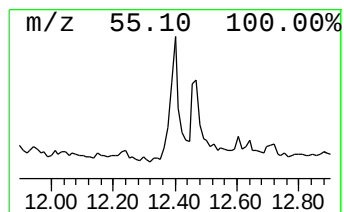
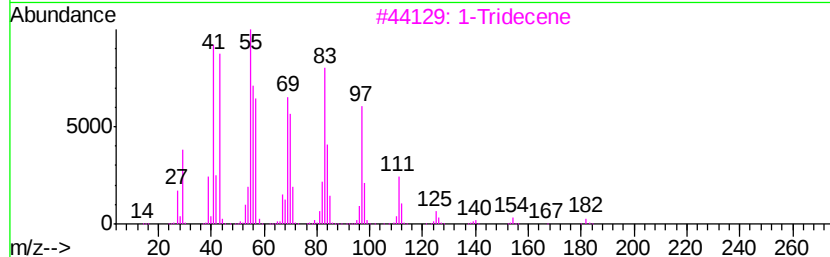
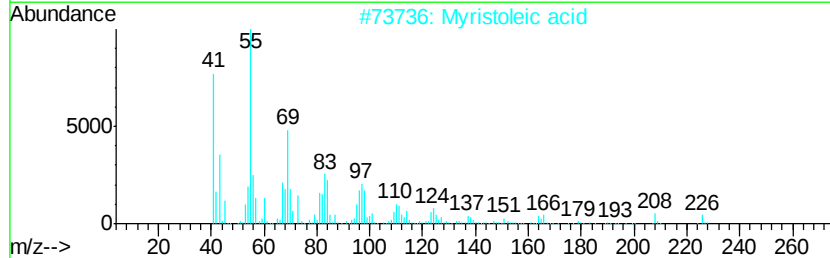
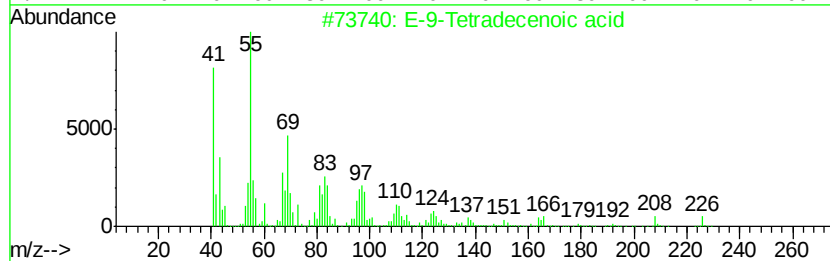
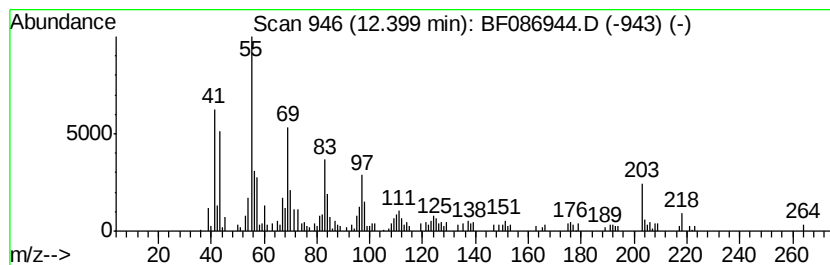
Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 unknown12.40 Concentration Rank 18

| R.T.      | EstConc                  | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------------|--------|------------------|--------------|------|
| 12.40     | 2.89 ng                  | 267963 | Phenanthrene-d10 | 11.13        |      |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#         | Qual |
| 1         | E-9-Tetradecenoic acid   | 226    | C14H26O2         | 1000131-35-8 | 45   |
| 2         | Myristoleic acid         | 226    | C14H26O2         | 000544-64-9  | 45   |
| 3         | 1-Tridecene              | 182    | C13H26           | 002437-56-1  | 38   |
| 4         | Hexadecenoic acid, Z-11- | 254    | C16H30O2         | 002416-20-8  | 38   |
| 5         | Z-7-Tetradecenoic acid   | 226    | C14H26O2         | 1000130-98-4 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

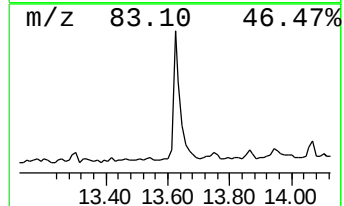
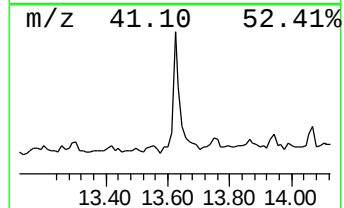
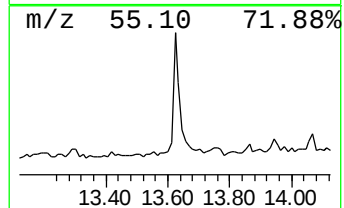
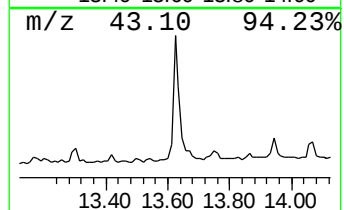
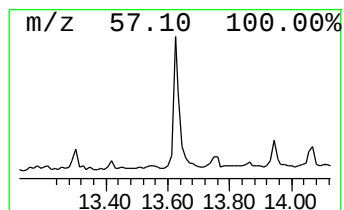
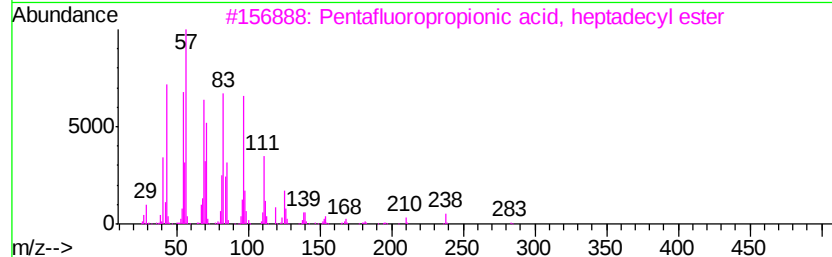
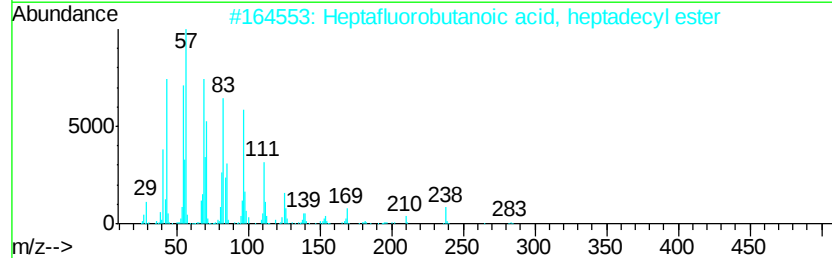
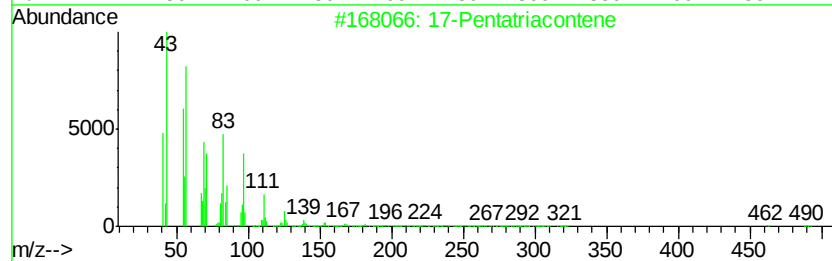
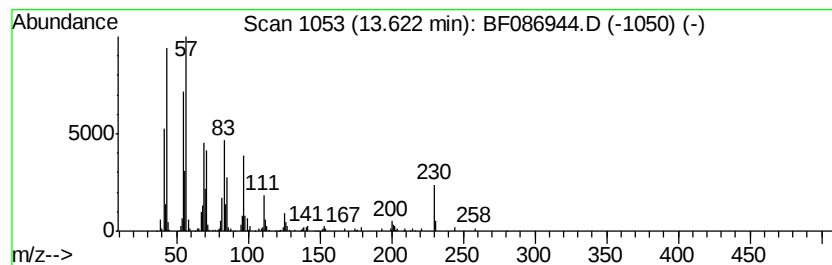
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 17-Pentatriacontene Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.62 | 2.80 ng | 306294 | Chrysene-d12     | 13.76 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | 17-Pentatriacontene                 | 491 | C35H70     | 006971-40-0  | 90   |
| 2       |   | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 87   |
| 3       |   | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 83   |
| 4       |   | 5-Eicosene, (E)-                    | 280 | C20H40     | 074685-30-6  | 70   |
| 5       |   | 1-Nonadecene                        | 266 | C19H38     | 018435-45-5  | 70   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086944.D  
 Acq On : 12 May 2016 21:51  
 Operator : UM/SJ  
 Sample : H2968-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

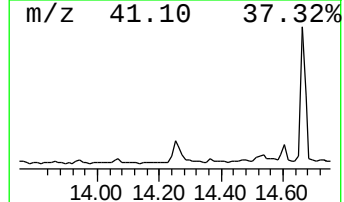
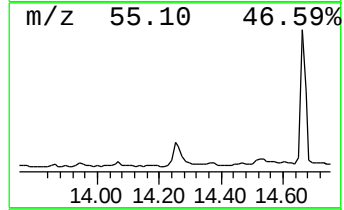
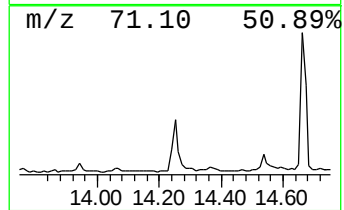
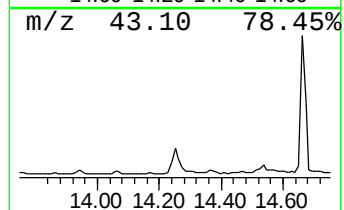
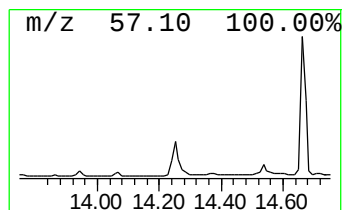
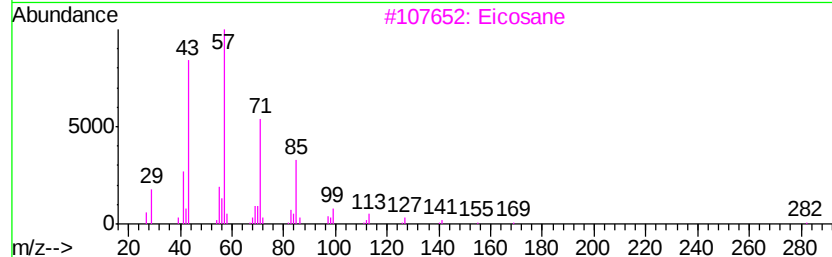
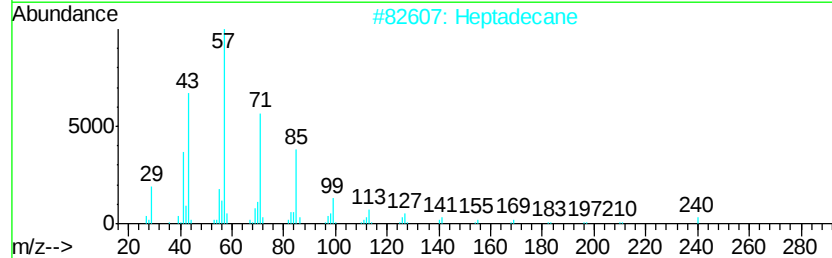
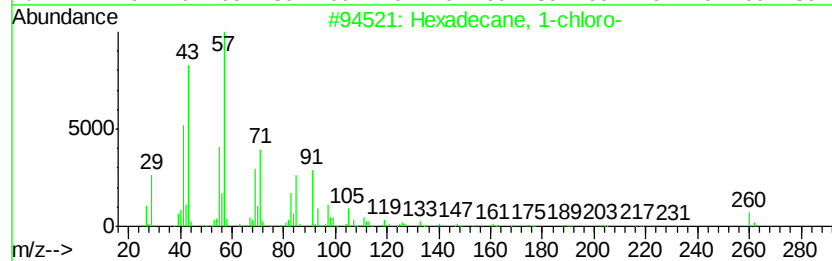
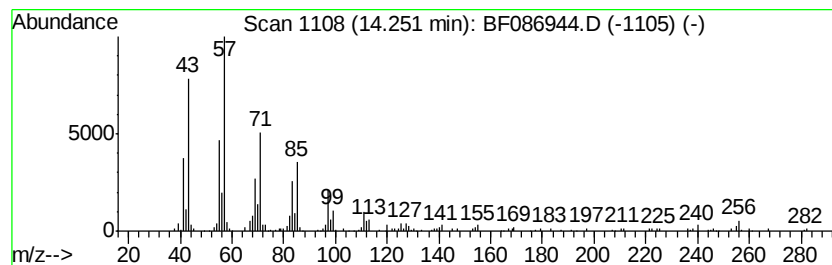
TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 8 Hexadecane, 1-chloro- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.25 | 4.19 ng | 457789 | Chrysene-d12     | 13.76 |

| Hit# | of | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecane, 1-chloro- | 260 | C16H33Cl | 004860-03-1 | 97   |
| 2    |    | Heptadecane           | 240 | C17H36   | 000629-78-7 | 96   |
| 3    |    | Eicosane              | 282 | C20H42   | 000112-95-8 | 95   |
| 4    |    | E-14-Hexadecenal      | 238 | C16H30O  | 330207-53-9 | 90   |
| 5    |    | 1-Hexadecene          | 224 | C16H32   | 000629-73-2 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

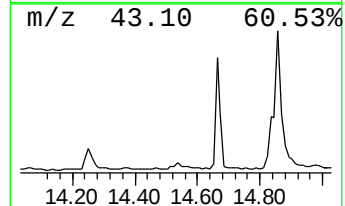
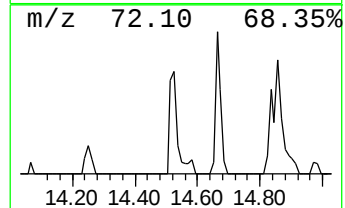
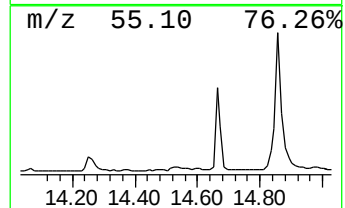
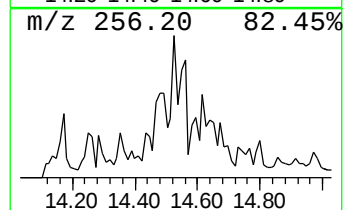
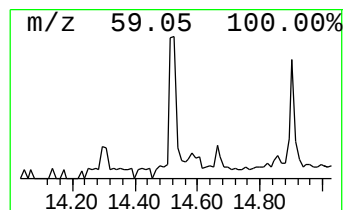
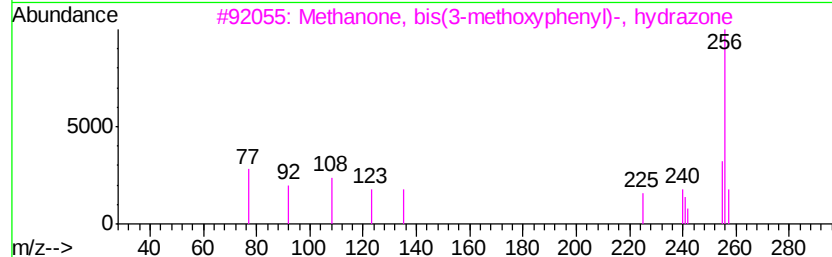
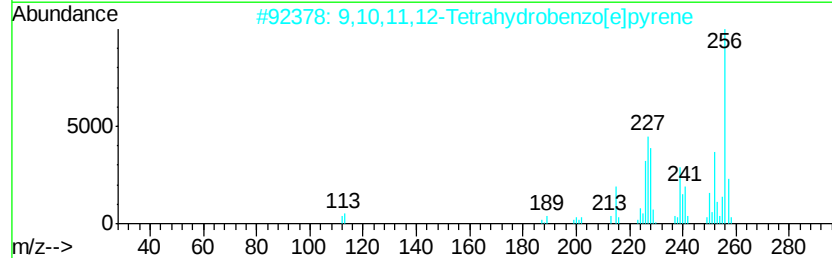
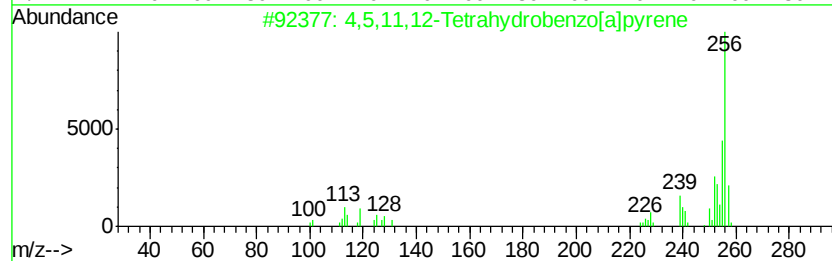
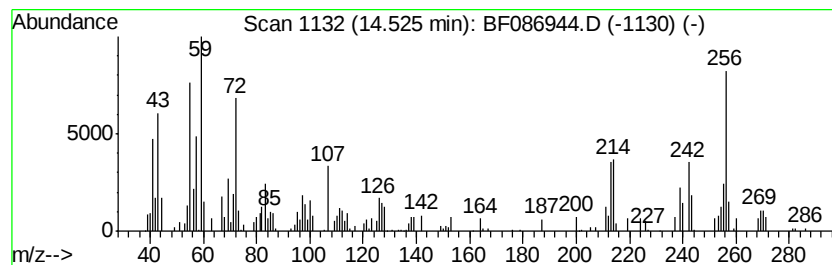
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 unknown14.53 Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.53 | 3.63 ng | 220519 | Perylene-d12     | 15.12 |

| Hit# | of                                   | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|--------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 4,5,11,12-Tetrahydrobenzo[a]pyrene   | 256 | C20H16       | 109292-58-2 | 49      |      |      |
| 2    | 9,10,11,12-Tetrahydrobenzo[e]pyrene  | 256 | C20H16       | 067099-81-4 | 47      |      |      |
| 3    | Methanone, bis(3-methoxyphenyl)-...  | 256 | C15H16N2O2   | 067437-15-4 | 46      |      |      |
| 4    | 8,9,10,11-Tetrahydrobenzo[k]fluor... | 256 | C20H16       | 033942-81-3 | 43      |      |      |
| 5    | 6,6'-Biquinoline                     | 256 | C18H12N2     | 000612-79-3 | 38      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

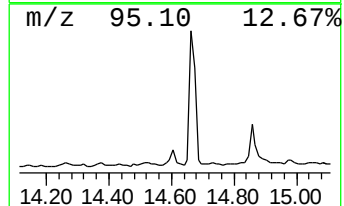
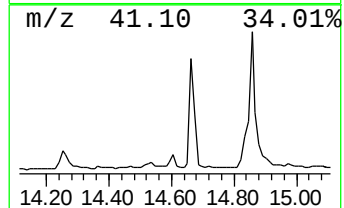
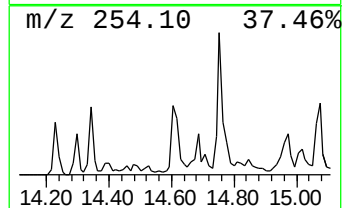
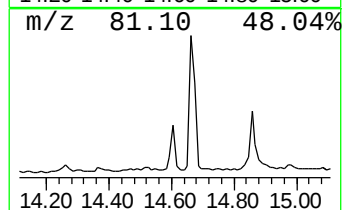
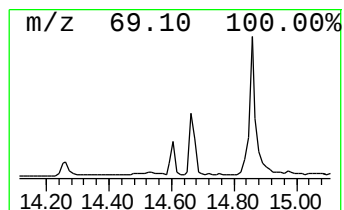
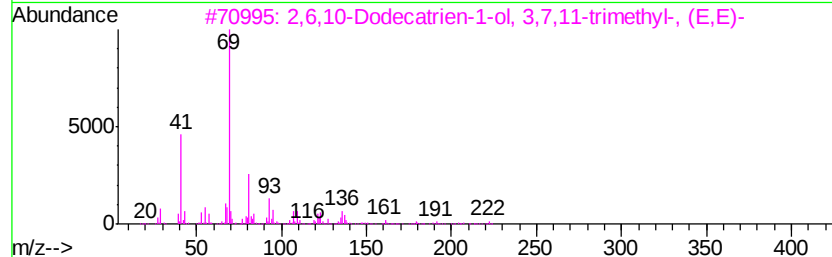
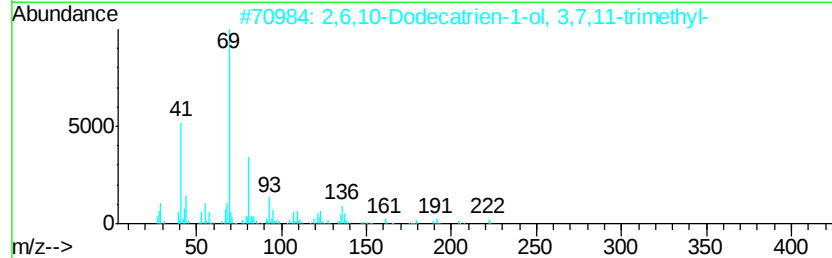
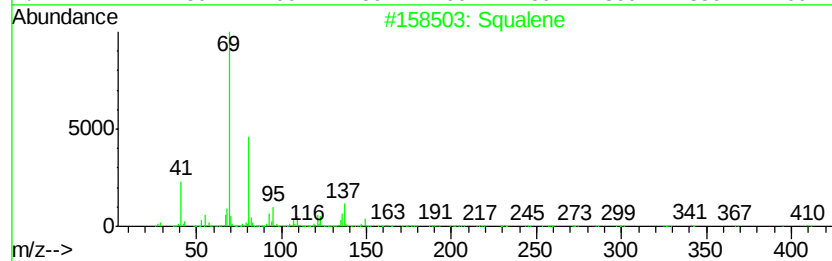
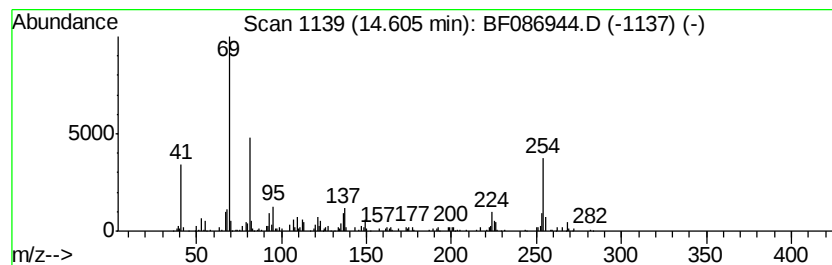
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Squalene Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.61 | 3.23 ng | 196237 | Perylene-d12     | 15.12 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Squalene                            | 410 | C30H50  | 007683-64-9 | 64   |
| 2    |    | 2,6,10-Dodecatrien-1-ol, 3,7,11-... | 222 | C15H26O | 004602-84-0 | 64   |
| 3    |    | 2,6,10-Dodecatrien-1-ol, 3,7,11-... | 222 | C15H26O | 000106-28-5 | 60   |
| 4    |    | 2,6,10,14,18,22-Tetracosahexaene... | 410 | C30H50  | 000111-02-4 | 58   |
| 5    |    | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

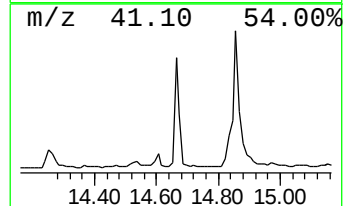
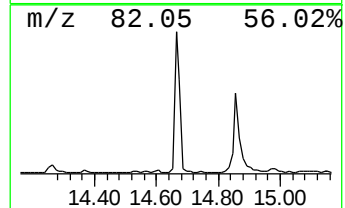
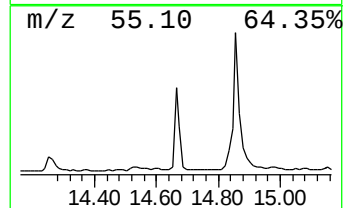
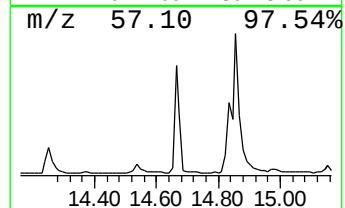
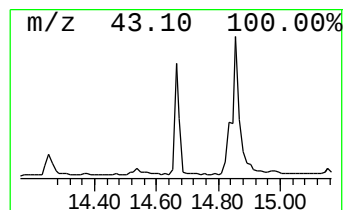
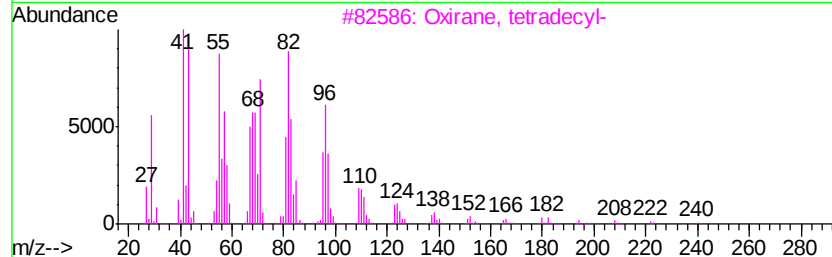
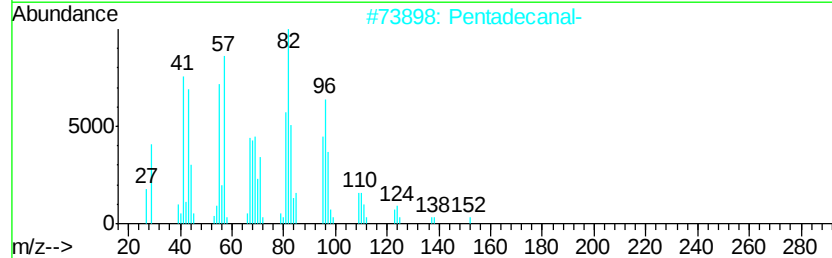
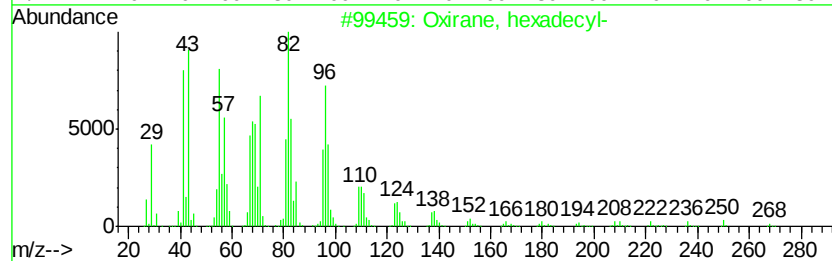
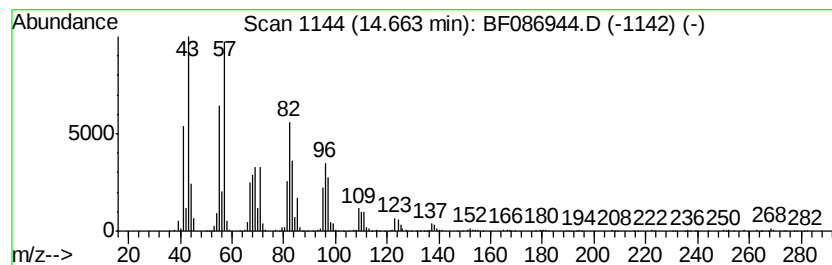
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Oxirane, hexadecyl- Concentration Rank 6

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.66 | 21.24 ng | 1290960 | Perylene-d12     | 15.12 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Oxirane, hexadecyl-  | 268 | C18H36O | 007390-81-0 | 91   |
| 2    |    | Pentadecanal-        | 226 | C15H30O | 002765-11-9 | 91   |
| 3    |    | Oxirane, tetradecyl- | 240 | C16H32O | 007320-37-8 | 91   |
| 4    |    | Tetradecanal         | 212 | C14H28O | 000124-25-4 | 91   |
| 5    |    | Octadecanal          | 268 | C18H36O | 000638-66-4 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

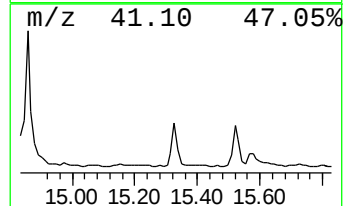
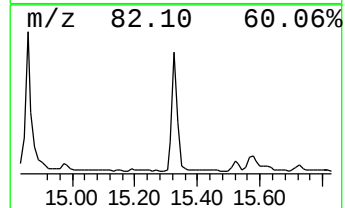
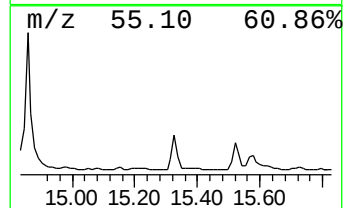
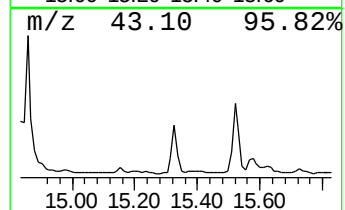
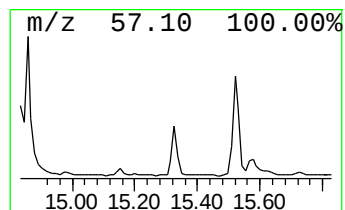
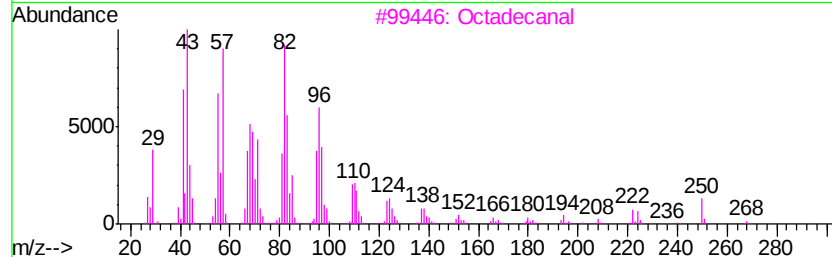
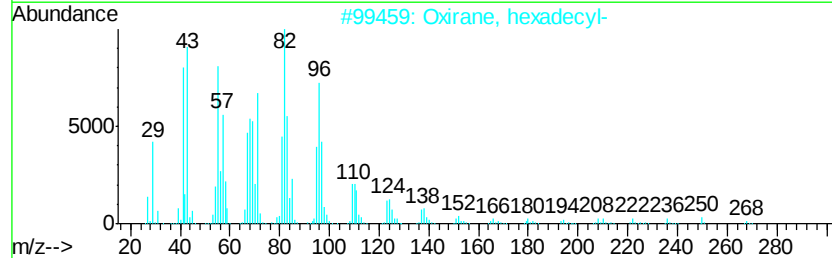
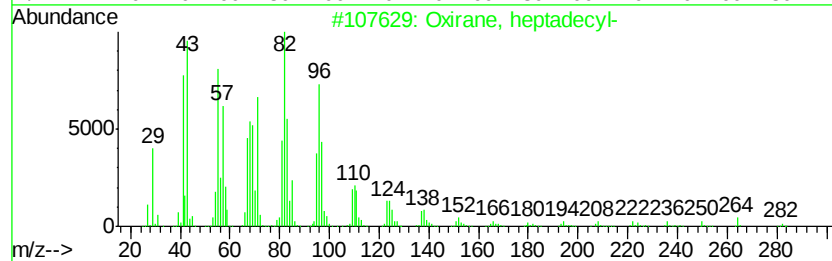
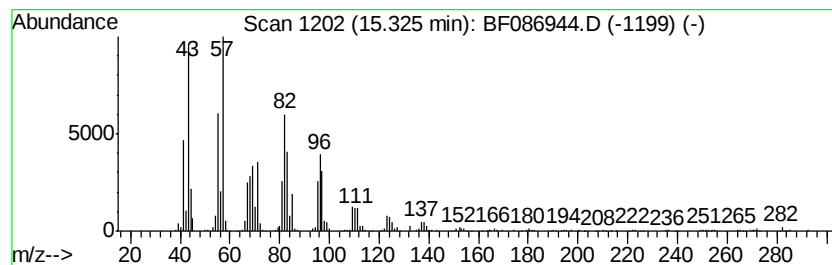
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Oxirane, heptadecyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.33 | 9.72 ng | 591151 | Perylene-d12     | 15.12 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 91   |
| 2    |    |   | Oxirane, hexadecyl-  | 268 | C18H36O | 007390-81-0 | 91   |
| 3    |    |   | Octadecanal          | 268 | C18H36O | 000638-66-4 | 91   |
| 4    |    |   | Pentadecanal-        | 226 | C15H30O | 002765-11-9 | 90   |
| 5    |    |   | 1,19-Eicosadiene     | 278 | C20H38  | 014811-95-1 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

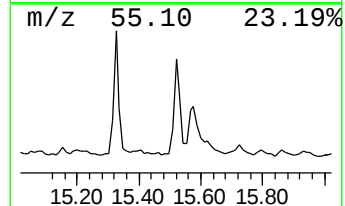
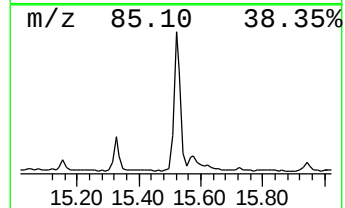
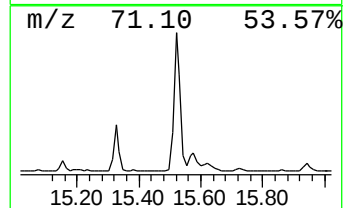
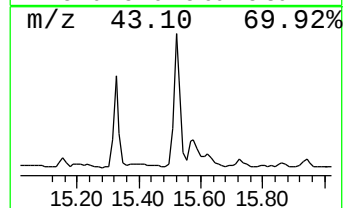
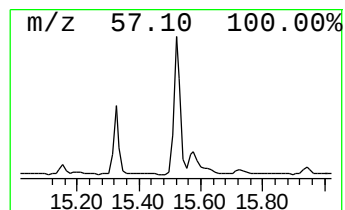
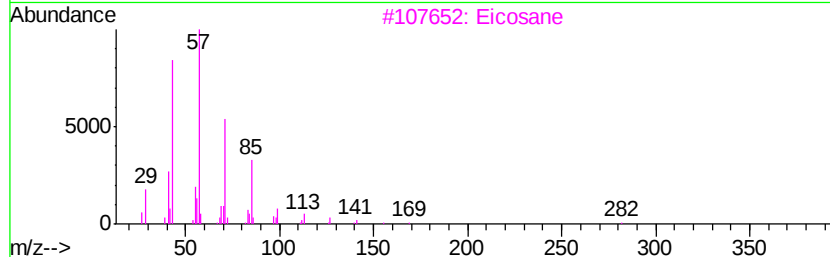
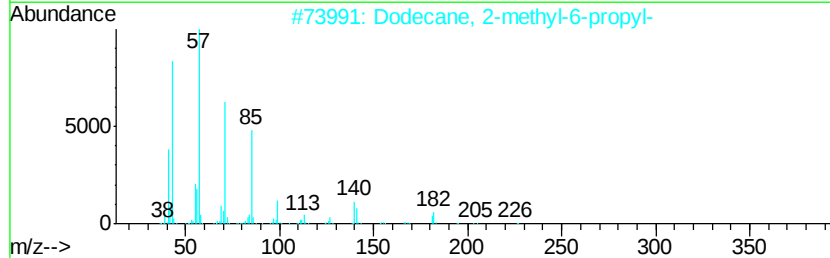
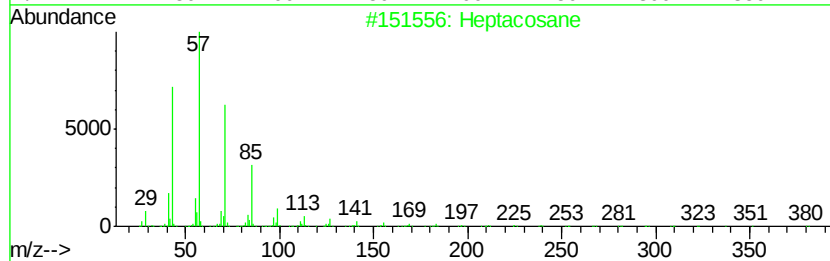
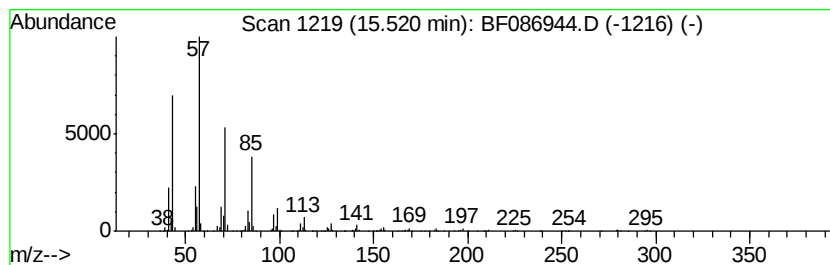
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 Heptacosane Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.52 | 12.22 ng | 742643 | Perylene-d12     | 15.12 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane                  | 380 | C27H56  | 000593-49-7 | 91   |
| 2    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 91   |
| 3    |    | Eicosane                     | 282 | C20H42  | 000112-95-8 | 91   |
| 4    |    | Octacosane                   | 394 | C28H58  | 000630-02-4 | 91   |
| 5    |    | Hentriacontane               | 437 | C31H64  | 000630-04-6 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

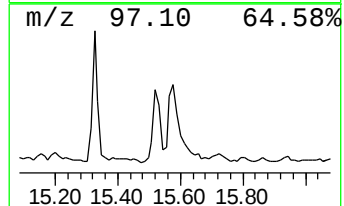
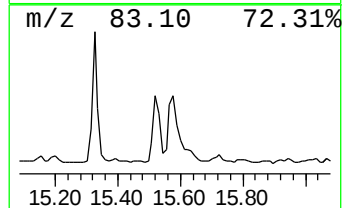
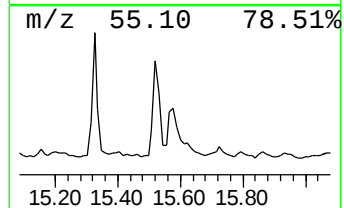
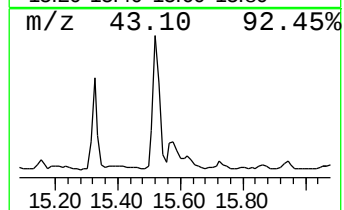
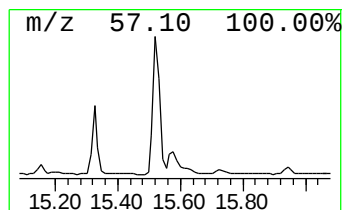
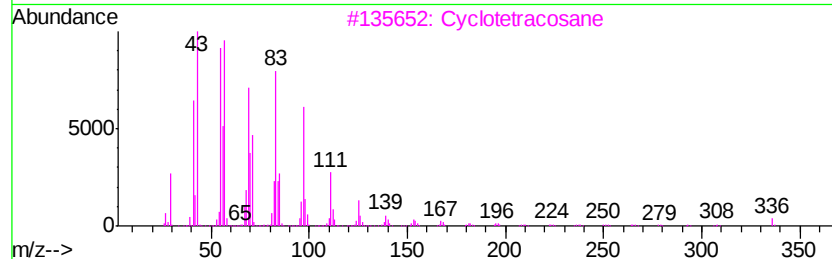
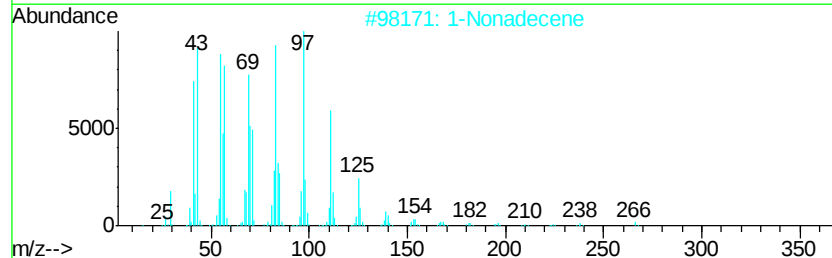
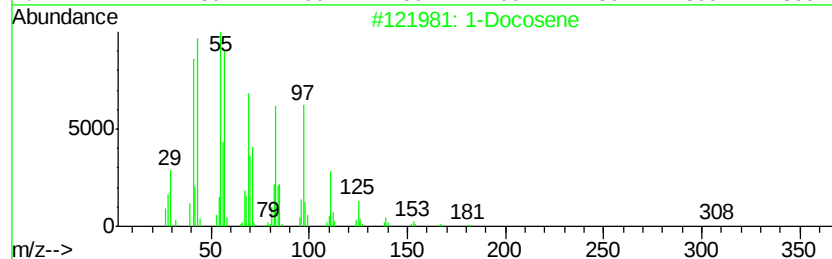
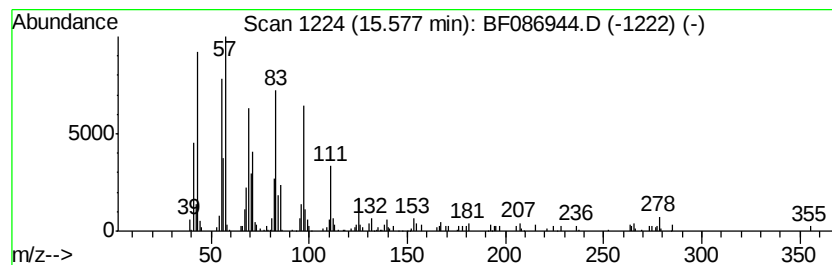
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 1-Docosene Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.58 | 4.71 ng | 286248 | Perylene-d12     | 15.12 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Docosene          | 308 | C22H44  | 001599-67-3 | 91   |
| 2    |    |   | 1-Nonadecene        | 266 | C19H38  | 018435-45-5 | 91   |
| 3    |    |   | Cyclotetracosane    | 336 | C24H48  | 000297-03-0 | 91   |
| 4    |    |   | 17-Pentatriacontene | 491 | C35H70  | 006971-40-0 | 87   |
| 5    |    |   | 1-Octadecene        | 252 | C18H36  | 000112-88-9 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

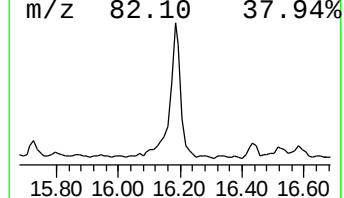
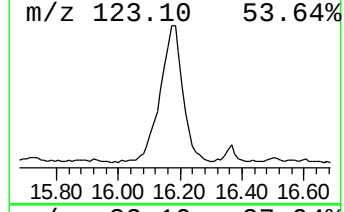
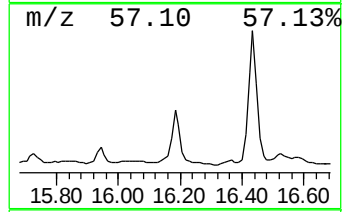
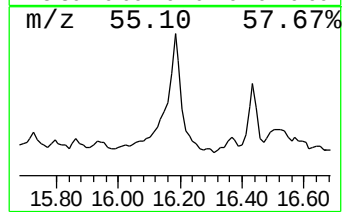
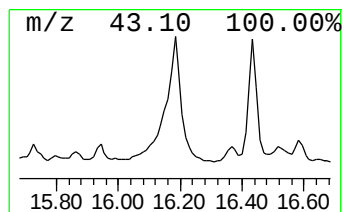
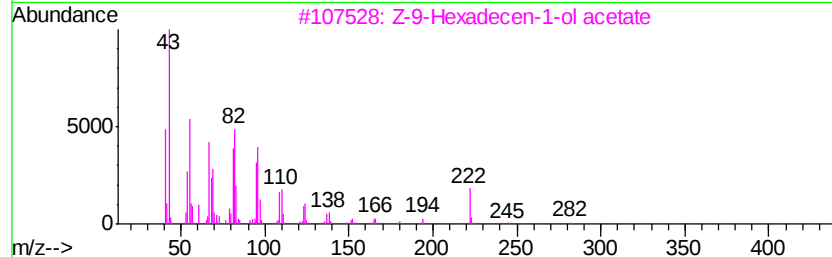
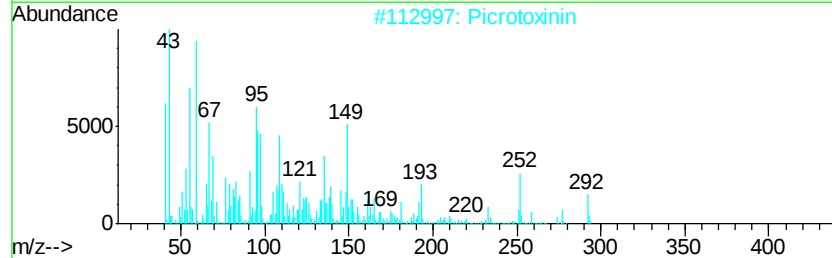
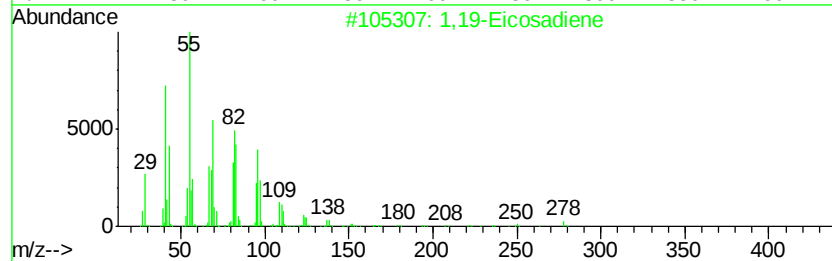
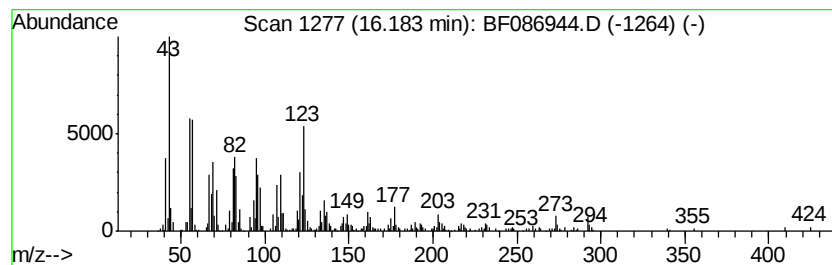
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 1,19-Eicosadiene Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 16.18 | 30.99 ng | 1884060 | Perylene-d12     | 15.12 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1,19-Eicosadiene                    | 278 | C20H38   | 014811-95-1  | 50   |
| 2    |    | Picrotoxinin                        | 292 | C15H16O6 | 017617-45-7  | 49   |
| 3    |    | Z-9-Hexadecen-1-ol acetate          | 282 | C18H34O2 | 1000130-89-2 | 35   |
| 4    |    | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18   | 006876-13-7  | 35   |
| 5    |    | 2-Pentanone, 4-(2,6,6-trimethyl-... | 208 | C14H24O  | 1000197-62-8 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

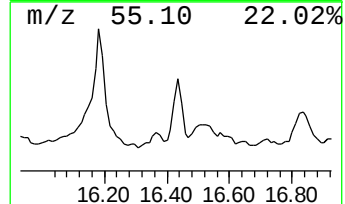
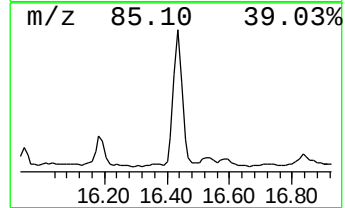
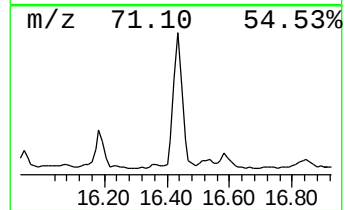
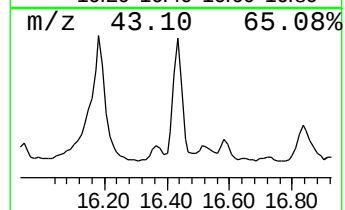
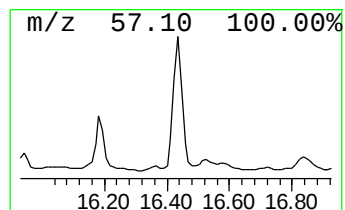
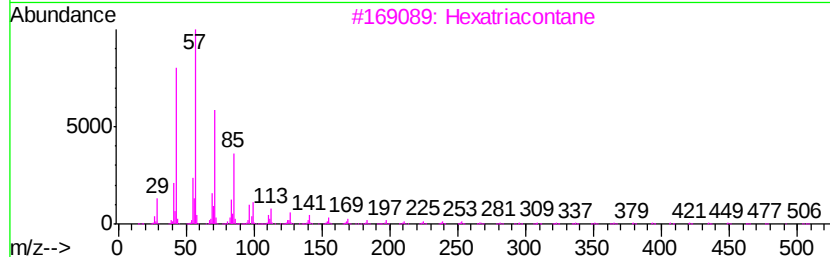
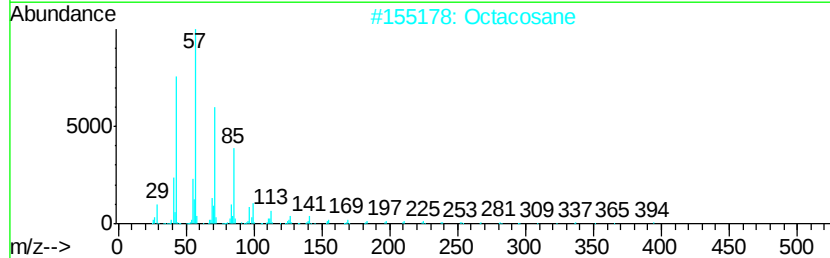
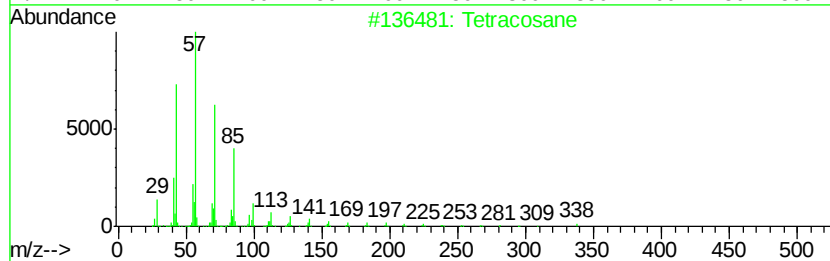
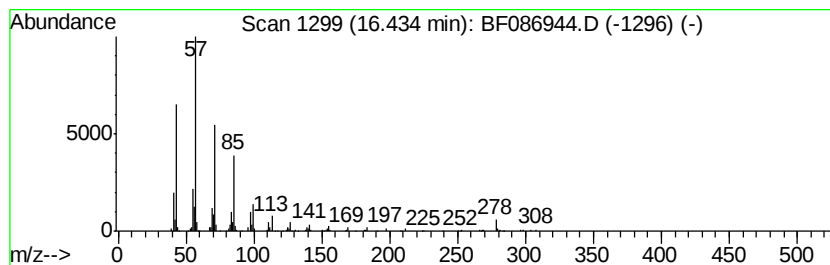
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Tetracosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.43 | 6.59 ng | 400759 | Perylene-d12     | 15.12 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Tetracosane           | 338 | C24H50  | 000646-31-1 | 91   |
| 2    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    |   | Hexatriacontane       | 507 | C36H74  | 000630-06-8 | 91   |
| 4    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    |   | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

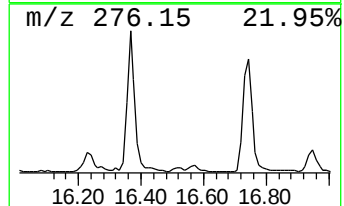
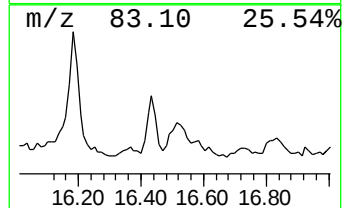
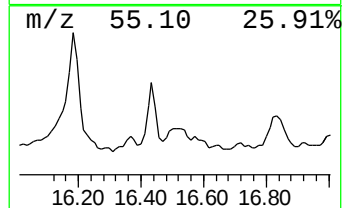
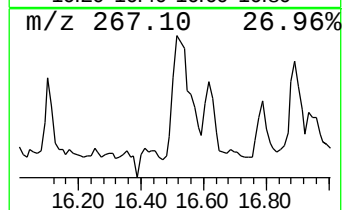
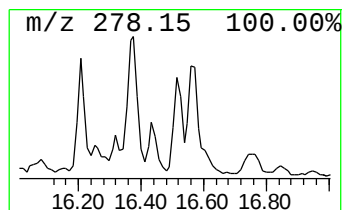
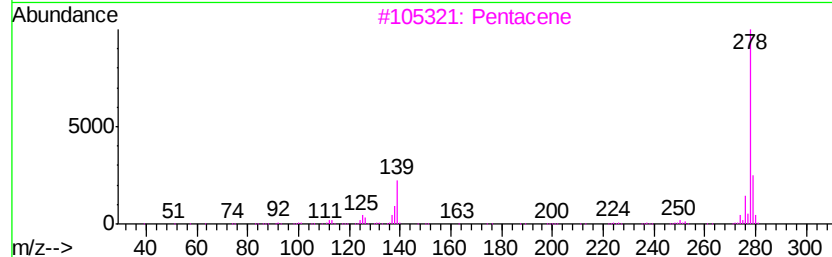
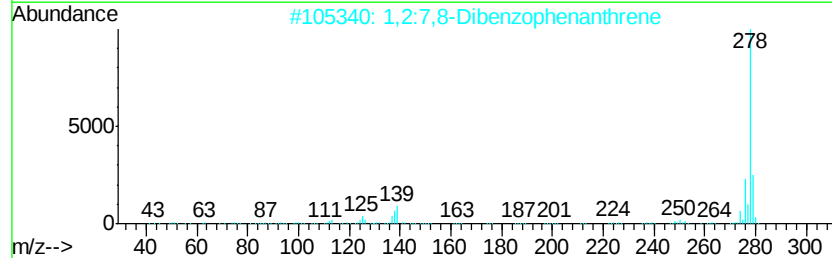
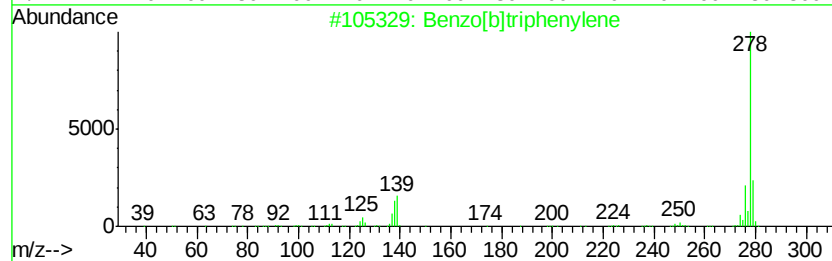
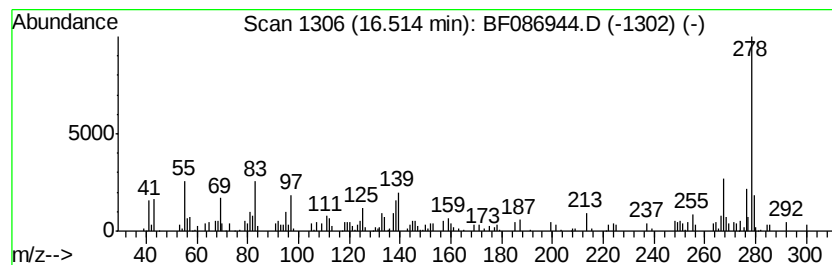
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[b]triphenylene Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.51 | 2.75 ng | 167290 | Perylene-d12     | 15.12 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Benzo[b]triphenylene                | 278 | C22H14     | 000215-58-7 | 91   |
| 2    |    | 1,2:7,8-Dibenzophenanthrene         | 278 | C22H14     | 000213-46-7 | 64   |
| 3    |    | Pentacene                           | 278 | C22H14     | 000135-48-8 | 58   |
| 4    |    | Dibenz[a,h]anthracene               | 278 | C22H14     | 000053-70-3 | 58   |
| 5    |    | Dibenzo[b,h][1,6]naphthyridine, ... | 278 | C17H11ClN2 | 004240-91-9 | 52   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

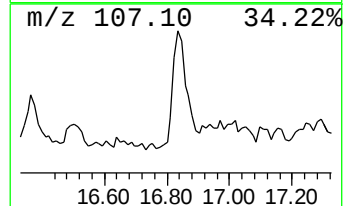
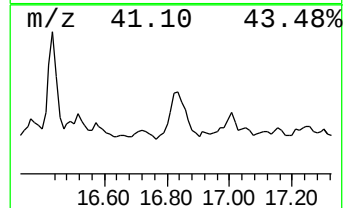
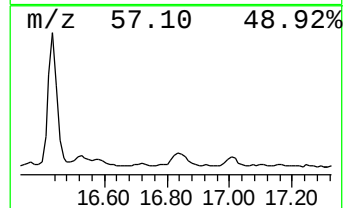
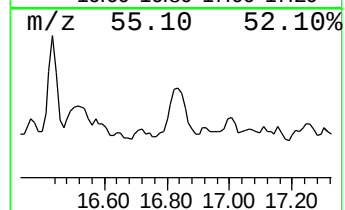
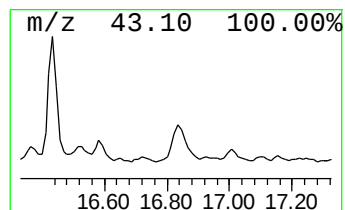
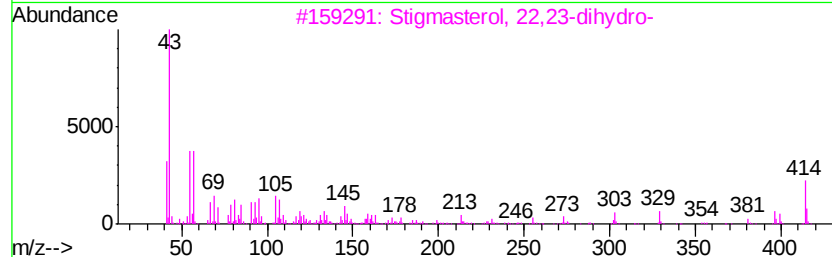
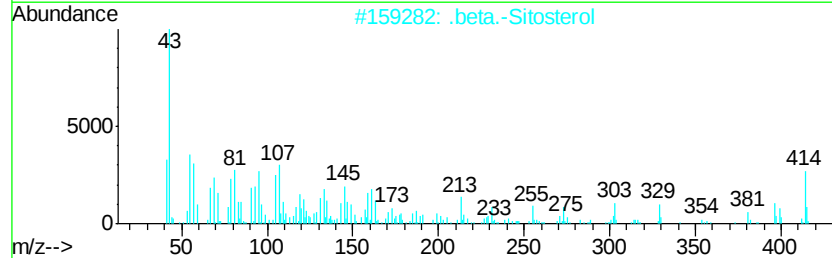
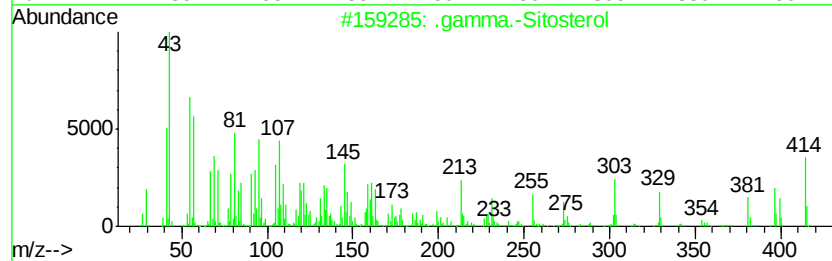
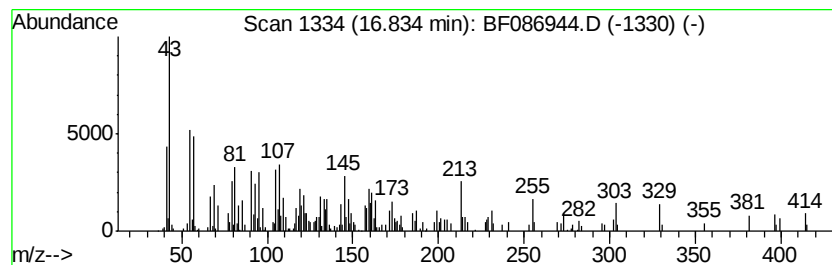
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 .gamma.-Sitosterol Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.83 | 6.47 ng | 393441 | Perylene-d12     | 15.12 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|----------|--------------|------|
| 1    |    |   | .gamma.-Sitosterol                   | 414 | C29H50O  | 000083-47-6  | 99   |
| 2    |    |   | .beta.-Sitosterol                    | 414 | C29H50O  | 000083-46-5  | 98   |
| 3    |    |   | Stigmasterol, 22,23-dihydro-         | 414 | C29H50O  | 1000214-20-7 | 89   |
| 4    |    |   | Cholest-5-ene, 3-ethoxy-, (3.beta... | 414 | C29H50O  | 000986-19-6  | 30   |
| 5    |    |   | Kauren-18-ol, acetate, (4.beta.)-    | 330 | C22H34O2 | 072150-74-4  | 20   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086944.D  
Acq On : 12 May 2016 21:51  
Operator : UM/SJ  
Sample : H2968-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

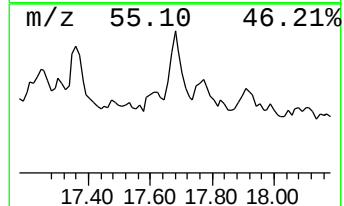
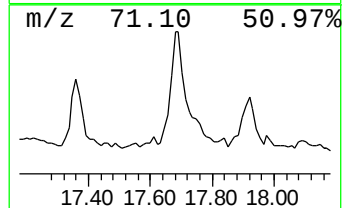
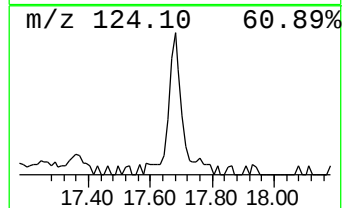
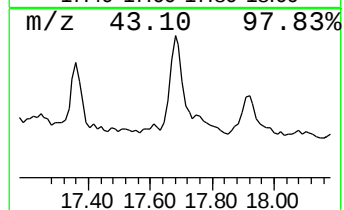
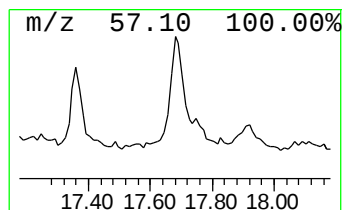
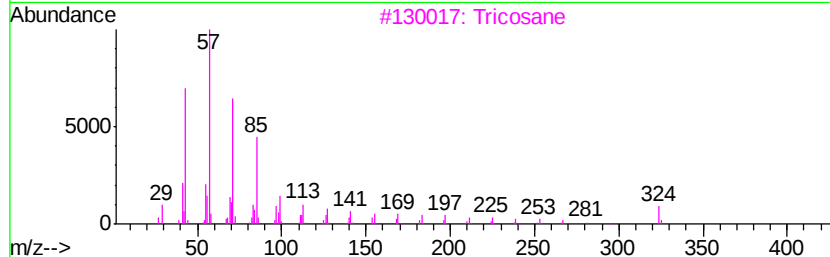
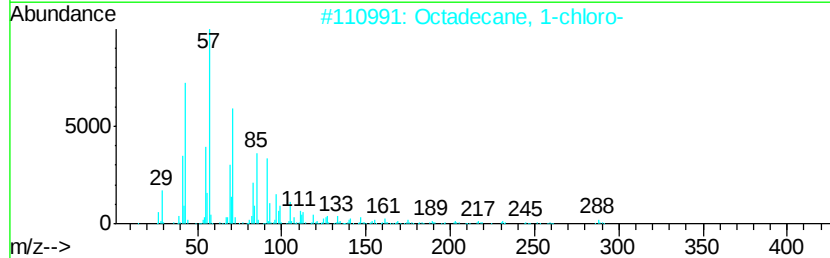
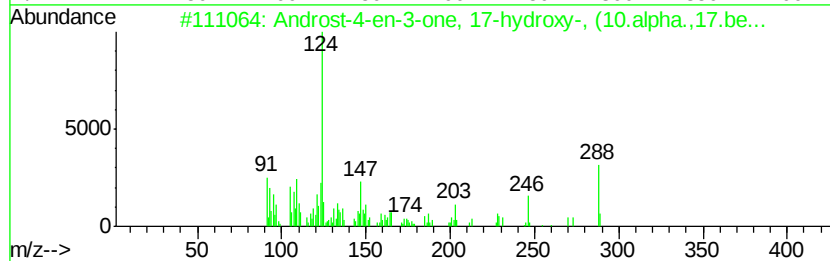
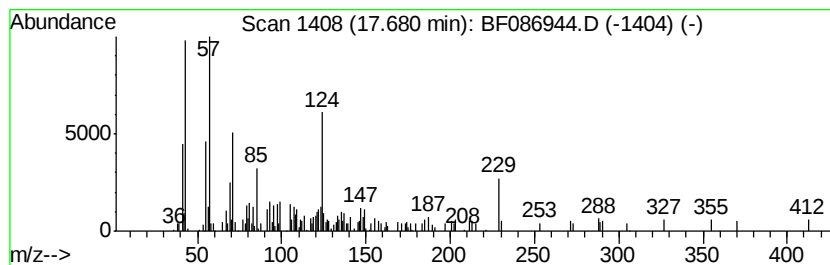
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Androst-4-en-3-one, 17-hydr... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.68 | 3.95 ng | 239856 | Perylene-d12     | 15.12 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Androst-4-en-3-one, 17-hydroxy-, ... | 288 | C19H28O2 | 000604-39-7 | 58   |
| 2    |    |   | Octadecane, 1-chloro-                | 288 | C18H37Cl | 003386-33-2 | 42   |
| 3    |    |   | Tricosane                            | 324 | C23H48   | 000638-67-5 | 38   |
| 4    |    |   | Hexacosane                           | 366 | C26H54   | 000630-01-3 | 38   |
| 5    |    |   | Heneicosane                          | 296 | C21H44   | 000629-94-7 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086944.D  
 Acq On : 12 May 2016 21:51  
 Operator : UM/SJ  
 Sample : H2968-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-02

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 |
| unknown6.40          | 6.40  | 31.9    | ng    | 1759260  | 1                     | 6.62  | 1103620 | 20.0 |
| Hexadecenoic acid... | 11.65 | 5.9     | ng    | 546429   | 4                     | 11.13 | 1854070 | 20.0 |
| n-Hexadecanoic acid  | 11.69 | 8.3     | ng    | 768366   | 4                     | 11.13 | 1854070 | 20.0 |
| unknown12.40         | 12.40 | 2.9     | ng    | 267963   | 4                     | 11.13 | 1854070 | 20.0 |
| 17-Pentatriacontene  | 13.62 | 2.8     | ng    | 306294   | 5                     | 13.76 | 2185190 | 20.0 |
| Hexadecane, 1-chl... | 14.25 | 4.2     | ng    | 457789   | 5                     | 13.76 | 2185190 | 20.0 |
| unknown14.53         | 14.53 | 3.6     | ng    | 220519   | 6                     | 15.12 | 1215880 | 20.0 |
| Squalene             | 14.61 | 3.2     | ng    | 196237   | 6                     | 15.12 | 1215880 | 20.0 |
| Oxirane, hexadecyl-  | 14.66 | 21.2    | ng    | 1290960  | 6                     | 15.12 | 1215880 | 20.0 |
| Oxirane, heptadecyl- | 15.33 | 9.7     | ng    | 591151   | 6                     | 15.12 | 1215880 | 20.0 |
| Heptacosane          | 15.52 | 12.2    | ng    | 742643   | 6                     | 15.12 | 1215880 | 20.0 |
| 1-Docosene           | 15.58 | 4.7     | ng    | 286248   | 6                     | 15.12 | 1215880 | 20.0 |
| 1,19-Eicosadiene     | 16.18 | 31.0    | ng    | 1884060  | 6                     | 15.12 | 1215880 | 20.0 |
| Tetracosane          | 16.43 | 6.6     | ng    | 400759   | 6                     | 15.12 | 1215880 | 20.0 |
| Benzo[b]triphenylene | 16.51 | 2.8     | ng    | 167290   | 6                     | 15.12 | 1215880 | 20.0 |
| .gamma.-Sitosterol   | 16.83 | 6.5     | ng    | 393441   | 6                     | 15.12 | 1215880 | 20.0 |
| Androst-4-en-3-on... | 17.68 | 4.0     | ng    | 239856   | 6                     | 15.12 | 1215880 | 20.0 |