

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
 Data File : BF092623.D  
 Acq On : 28 Jan 2017 13:23  
 Operator : SJ/MA  
 Sample : I1384-05  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-3A

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-BF012417.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         | 4.236       | 183           | 188         | 190          | rBV      | 167592         | 253349        | 1.12%           | 0.086%        |
| 2         | 4.567       | 214           | 217         | 221          | rVB2     | 282157         | 599048        | 2.66%           | 0.203%        |
| 3         | 4.990       | 250           | 254         | 257          | rBV      | 279110         | 396324        | 1.76%           | 0.134%        |
| 4         | 5.093       | 257           | 263         | 266          | rBV3     | 494504         | 1350329       | 5.99%           | 0.458%        |
| 5         | 5.161       | 266           | 269         | 271          | rBV2     | 1528522        | 2144813       | 9.52%           | 0.728%        |
| 6         | 5.219       | 271           | 274         | 276          | rVB2     | 116327         | 236805        | 1.05%           | 0.080%        |
| 7         | 5.356       | 283           | 286         | 288          | rBV      | 794574         | 980723        | 4.35%           | 0.333%        |
| 8         | 5.447       | 291           | 294         | 295          | rBV      | 665282         | 938037        | 4.16%           | 0.318%        |
| 9         | 5.470       | 295           | 296         | 298          | rVB      | 768086         | 546545        | 2.43%           | 0.185%        |
| 10        | 5.550       | 298           | 303         | 304          | rBV      | 953240         | 1456514       | 6.46%           | 0.494%        |
| 11        | 5.584       | 304           | 306         | 308          | rVB      | 3210834        | 3367955       | 14.95%          | 1.143%        |
| 12        | 5.641       | 308           | 311         | 313          | rBV2     | 263222         | 238774        | 1.06%           | 0.081%        |
| 13        | 5.721       | 316           | 318         | 321          | rBV2     | 416760         | 729935        | 3.24%           | 0.248%        |
| 14        | 5.767       | 321           | 322         | 324          | rVB      | 1043532        | 973124        | 4.32%           | 0.330%        |
| 15        | 5.813       | 324           | 326         | 329          | rVB3     | 906060         | 1516420       | 6.73%           | 0.515%        |
| 16        | 5.870       | 329           | 331         | 333          | rVB      | 3966405        | 4020833       | 17.84%          | 1.364%        |
| 17        | 5.984       | 337           | 341         | 343          | rBV2     | 1248722        | 1886665       | 8.37%           | 0.640%        |
| 18        | 6.030       | 343           | 345         | 349          | rBV2     | 777264         | 1558770       | 6.92%           | 0.529%        |
| 19        | 6.122       | 351           | 353         | 355          | rVB3     | 1541113        | 2186981       | 9.70%           | 0.742%        |
| 20        | 6.167       | 355           | 357         | 358          | rBV      | 685832         | 869329        | 3.86%           | 0.295%        |
| 21        | 6.213       | 358           | 361         | 364          | rBV      | 3240546        | 5106098       | 22.66%          | 1.733%        |
| 22        | 6.270       | 364           | 366         | 367          | rVB      | 1241326        | 1180945       | 5.24%           | 0.401%        |
| 23        | 6.304       | 367           | 369         | 372          | rVB3     | 356086         | 780784        | 3.46%           | 0.265%        |
| 24        | 6.350       | 372           | 373         | 375          | rVB2     | 373172         | 464546        | 2.06%           | 0.158%        |
| 25        | 6.407       | 375           | 378         | 380          | rBV      | 2152118        | 3181833       | 14.12%          | 1.080%        |
| 26        | 6.464       | 380           | 383         | 385          | rBV2     | 1582092        | 2752512       | 12.21%          | 0.934%        |
| 27        | 6.499       | 385           | 386         | 390          | rVB2     | 3203473        | 4645832       | 20.62%          | 1.577%        |
| 28        | 6.567       | 390           | 392         | 394          | rBV2     | 1945920        | 3718320       | 16.50%          | 1.262%        |
| 29        | 6.624       | 394           | 397         | 398          | rBV      | 2425193        | 3598648       | 15.97%          | 1.221%        |
| 30        | 6.659       | 398           | 400         | 403          | rVB3     | 1020120        | 1868919       | 8.29%           | 0.634%        |
| 31        | 6.750       | 403           | 408         | 411          | rVB2     | 4261672        | 8103689       | 35.96%          | 2.750%        |
| 32        | 6.819       | 411           | 414         | 419          | rBV      | 7300891        | 13220651      | 58.67%          | 4.486%        |
| 33        | 6.922       | 419           | 423         | 424          | rBV3     | 813113         | 1955629       | 8.68%           | 0.664%        |
| 34        | 6.990       | 424           | 429         | 431          | rBV2     | 3114269        | 5243203       | 23.27%          | 1.779%        |

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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-BF012417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |          |         |        |
|----|--------|-----|-----|-----|------|---------|----------|---------|--------|
| 35 | 7.036  | 431 | 433 | 437 | rVB2 | 2296934 | 2355190  | 10.45%  | 0.799% |
| 36 | 7.093  | 437 | 438 | 439 | rBV  | 700928  | 598514   | 2.66%   | 0.203% |
| 37 | 7.127  | 439 | 441 | 447 | rVB3 | 3946712 | 7841691  | 34.80%  | 2.661% |
| 38 | 7.253  | 447 | 452 | 454 | rBV3 | 3217866 | 7480150  | 33.19%  | 2.538% |
| 39 | 7.322  | 454 | 458 | 461 | rVB3 | 2631540 | 6638946  | 29.46%  | 2.253% |
| 40 | 7.379  | 461 | 463 | 468 | rVB3 | 3759821 | 6819106  | 30.26%  | 2.314% |
| 41 | 7.482  | 468 | 472 | 473 | rBV2 | 938176  | 2260430  | 10.03%  | 0.767% |
| 42 | 7.527  | 473 | 476 | 477 | rBV2 | 3181224 | 5711541  | 25.34%  | 1.938% |
| 43 | 7.607  | 479 | 483 | 485 | rBV  | 4401720 | 10329586 | 45.84%  | 3.505% |
| 44 | 7.699  | 488 | 491 | 494 | rVB4 | 1550857 | 3021305  | 13.41%  | 1.025% |
| 45 | 7.767  | 495 | 497 | 498 | rBV  | 1977598 | 2749301  | 12.20%  | 0.933% |
| 46 | 7.916  | 504 | 510 | 512 | rBV5 | 3343034 | 13294368 | 58.99%  | 4.511% |
| 47 | 8.030  | 518 | 520 | 523 | rVB3 | 1696541 | 3465230  | 15.38%  | 1.176% |
| 48 | 8.156  | 529 | 531 | 532 | rBV  | 780678  | 1205103  | 5.35%   | 0.409% |
| 49 | 8.293  | 535 | 543 | 546 | rVV4 | 4721834 | 22535401 | 100.00% | 7.647% |
| 50 | 8.362  | 546 | 549 | 555 | rVB  | 3378034 | 12048974 | 53.47%  | 4.089% |
| 51 | 8.590  | 565 | 569 | 573 | rBV6 | 2636746 | 9909661  | 43.97%  | 3.363% |
| 52 | 10.419 | 726 | 729 | 730 | rBV  | 1763459 | 3508386  | 15.57%  | 1.191% |
| 53 | 10.522 | 734 | 738 | 741 | rVV2 | 2368996 | 7330421  | 32.53%  | 2.488% |
| 54 | 10.991 | 774 | 779 | 783 | rBV4 | 3084756 | 10377573 | 46.05%  | 3.522% |
| 55 | 11.162 | 792 | 794 | 796 | rBV3 | 1169300 | 2157660  | 9.57%   | 0.732% |
| 56 | 11.311 | 803 | 807 | 810 | rVB5 | 1804054 | 4786646  | 21.24%  | 1.624% |
| 57 | 11.425 | 813 | 817 | 818 | rBV  | 3156610 | 6521954  | 28.94%  | 2.213% |
| 58 | 11.585 | 826 | 831 | 835 | rVB4 | 2558568 | 5606689  | 24.88%  | 1.903% |
| 59 | 11.676 | 835 | 839 | 841 | rBV4 | 1426015 | 2800751  | 12.43%  | 0.950% |
| 60 | 11.848 | 850 | 854 | 855 | rVV  | 4082619 | 7967087  | 35.35%  | 2.704% |
| 61 | 11.882 | 855 | 857 | 860 | rVB2 | 980561  | 1559821  | 6.92%   | 0.529% |
| 62 | 12.054 | 870 | 872 | 873 | rBV  | 1738550 | 1634742  | 7.25%   | 0.555% |
| 63 | 12.088 | 873 | 875 | 876 | rVB  | 2755077 | 3121535  | 13.85%  | 1.059% |
| 64 | 12.122 | 876 | 878 | 880 | rBV2 | 885044  | 1900568  | 8.43%   | 0.645% |
| 65 | 12.236 | 885 | 888 | 890 | rVB  | 4686835 | 6010558  | 26.67%  | 2.040% |
| 66 | 12.339 | 895 | 897 | 898 | rBV2 | 555377  | 597144   | 2.65%   | 0.203% |
| 67 | 12.488 | 908 | 910 | 911 | rBV  | 754199  | 808789   | 3.59%   | 0.274% |
| 68 | 12.522 | 911 | 913 | 916 | rVB2 | 1599336 | 2846060  | 12.63%  | 0.966% |
| 69 | 12.614 | 917 | 921 | 923 | rBV2 | 3616670 | 6791599  | 30.14%  | 2.305% |
| 70 | 12.751 | 932 | 933 | 936 | rBV3 | 659792  | 718667   | 3.19%   | 0.244% |
| 71 | 12.979 | 951 | 953 | 956 | rVB2 | 3021070 | 4249584  | 18.86%  | 1.442% |

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 BNA\_F  
 ClientSampleId :  
 UST-3A

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-BF012417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 13.036 | 956  | 958  | 960  | rVB  | 794060  | 778643  | 3.46%  | 0.264% |
| 73 | 13.116 | 960  | 965  | 969  | rVB  | 2731850 | 3925812 | 17.42% | 1.332% |
| 74 | 13.185 | 969  | 971  | 972  | rBV2 | 285963  | 332034  | 1.47%  | 0.113% |
| 75 | 13.334 | 982  | 984  | 986  | rBV  | 2217253 | 2215127 | 9.83%  | 0.752% |
| 76 | 13.562 | 1002 | 1004 | 1008 | rVB2 | 252957  | 412342  | 1.83%  | 0.140% |
| 77 | 13.677 | 1012 | 1014 | 1018 | rVV  | 1613086 | 1454277 | 6.45%  | 0.493% |
| 78 | 13.802 | 1022 | 1025 | 1027 | rVB4 | 115646  | 235718  | 1.05%  | 0.080% |
| 79 | 14.008 | 1040 | 1043 | 1049 | rVB  | 723629  | 1139954 | 5.06%  | 0.387% |
| 80 | 14.168 | 1054 | 1057 | 1058 | rBV  | 861415  | 961179  | 4.27%  | 0.326% |
| 81 | 14.317 | 1068 | 1070 | 1072 | rBV  | 505057  | 502104  | 2.23%  | 0.170% |
| 82 | 14.625 | 1095 | 1097 | 1099 | rVB  | 327683  | 308441  | 1.37%  | 0.105% |
| 83 | 15.654 | 1184 | 1187 | 1198 | rVB  | 435538  | 789496  | 3.50%  | 0.268% |

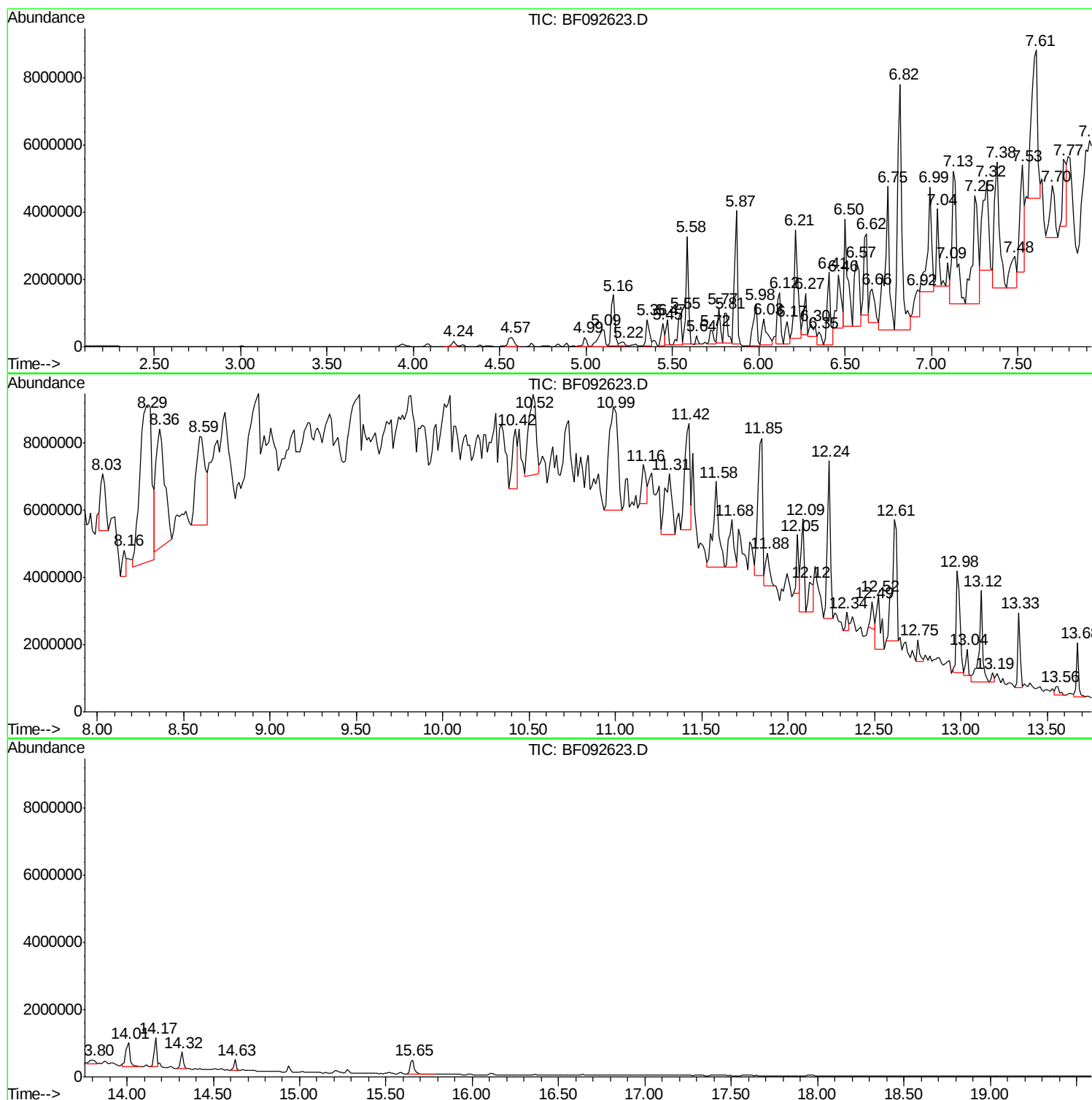
Sum of corrected areas: 294688740

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
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Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.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\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

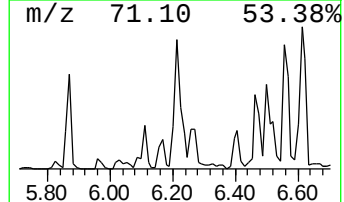
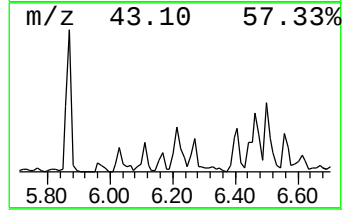
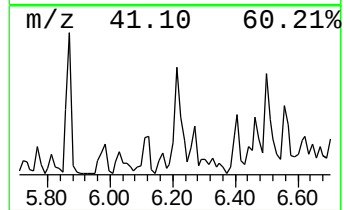
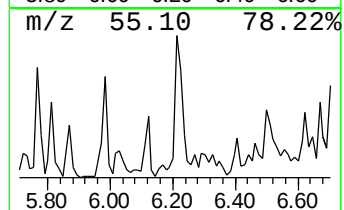
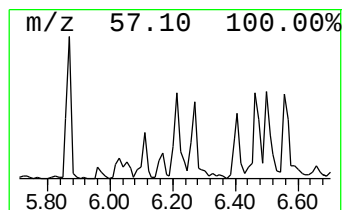
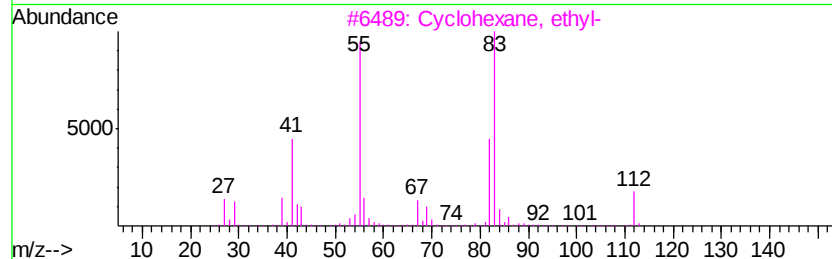
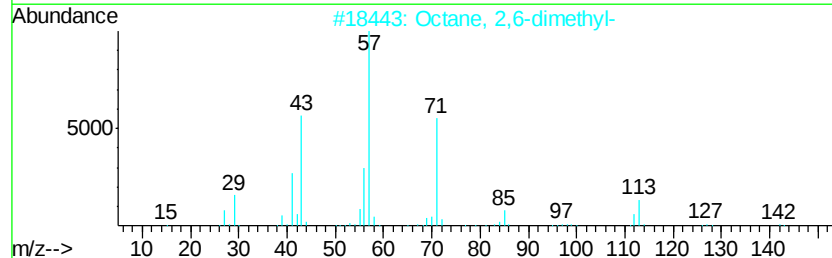
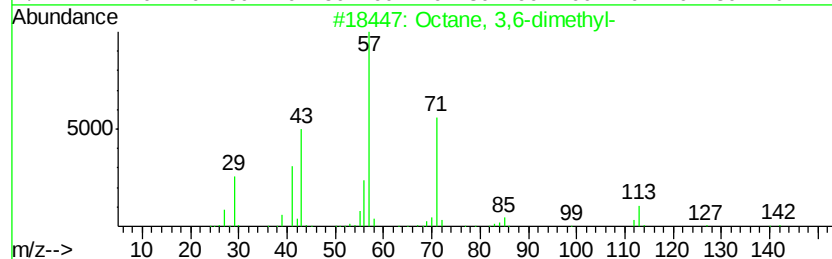
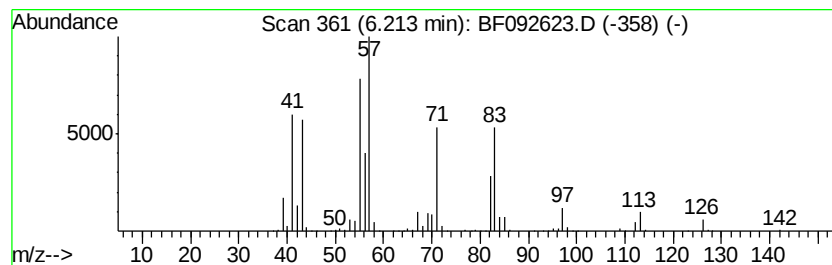
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.21 Concentration Rank 18

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.21 | 19.48 ng | 5106100 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 3,6-dimethyl-               | 142 | C10H22  | 015869-94-0 | 38   |
| 2    |    | Octane, 2,6-dimethyl-               | 142 | C10H22  | 002051-30-1 | 38   |
| 3    |    | Cyclohexane, ethyl-                 | 112 | C8H16   | 001678-91-7 | 35   |
| 4    |    | Methylamine, N-(1-methylhexylide... | 127 | C8H17N  | 022058-71-5 | 30   |
| 5    |    | Cyclohexane, propyl-                | 126 | C9H18   | 001678-92-8 | 27   |



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ALS Vial : 41 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

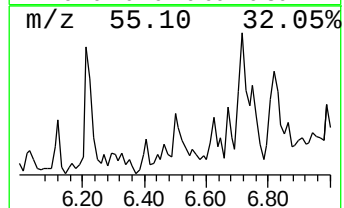
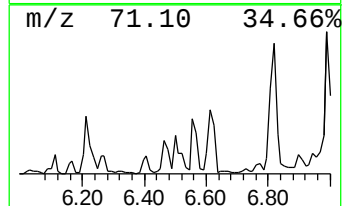
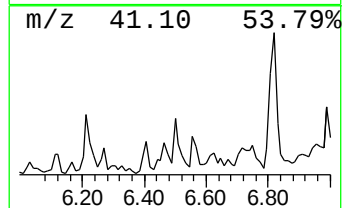
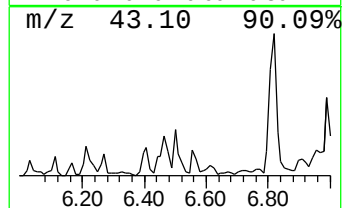
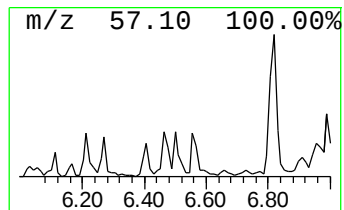
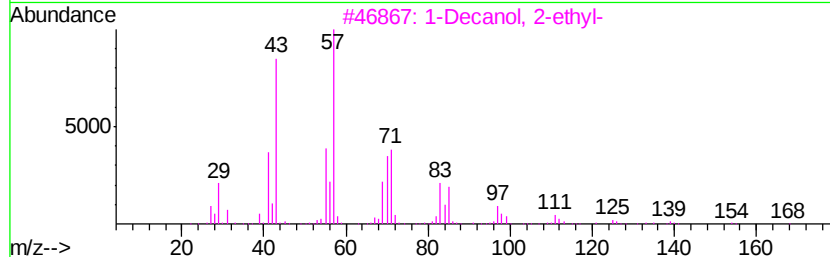
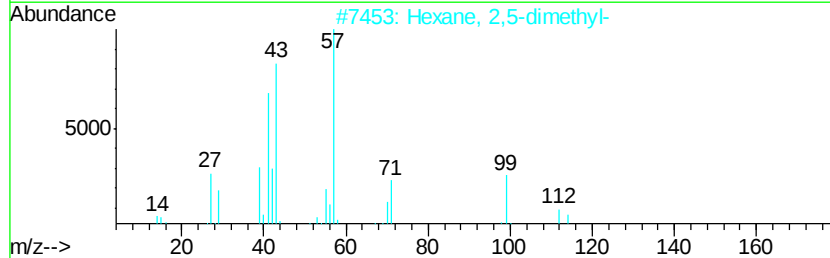
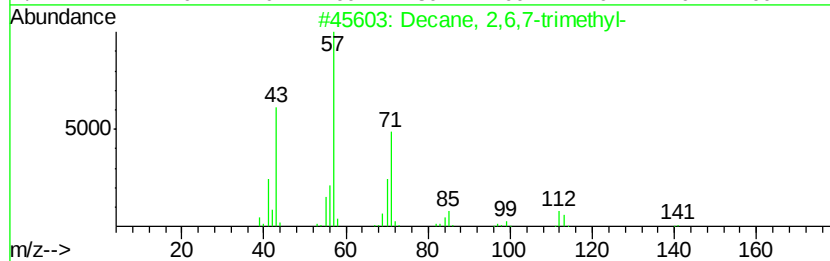
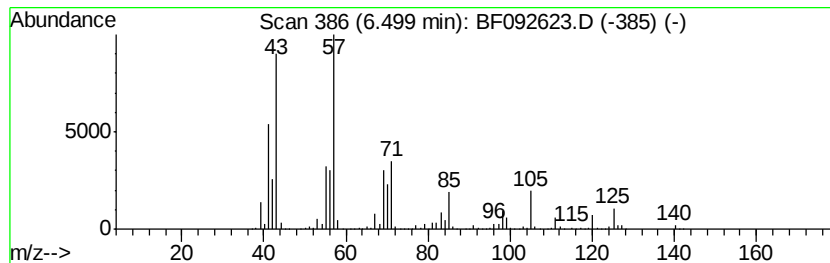
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.50 Concentration Rank 19

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 17.72 ng | 4645830 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,6,7-trimethyl- | 184 | C13H28  | 062108-25-2 | 47   |
| 2    |    | Hexane, 2,5-dimethyl-    | 114 | C8H18   | 000592-13-2 | 38   |
| 3    |    | 1-Decanol, 2-ethyl-      | 186 | C12H26O | 021078-65-9 | 35   |
| 4    |    | Ether, heptyl hexyl      | 200 | C13H28O | 007289-40-9 | 35   |
| 5    |    | Dodecane, 2-methyl-      | 184 | C13H28  | 001560-97-0 | 35   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

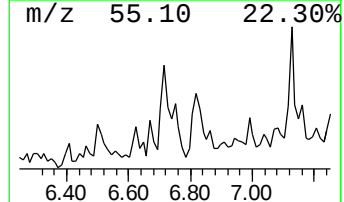
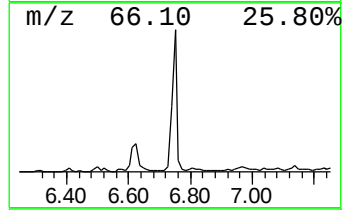
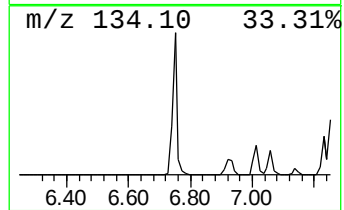
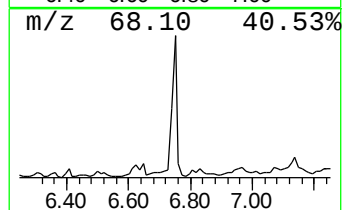
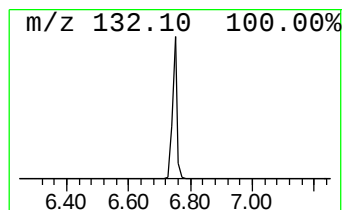
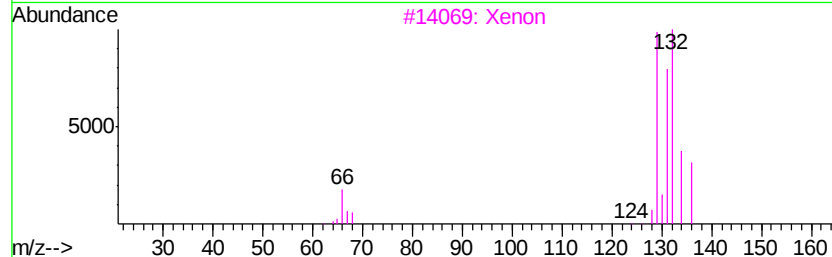
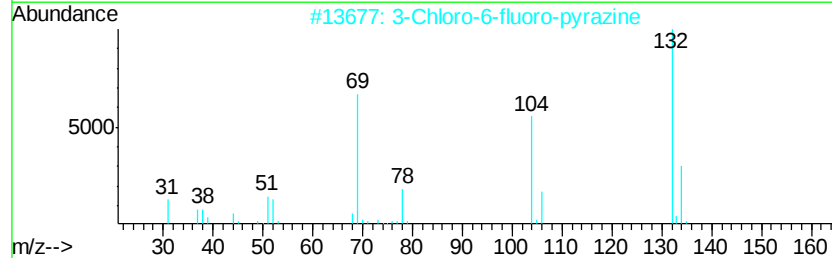
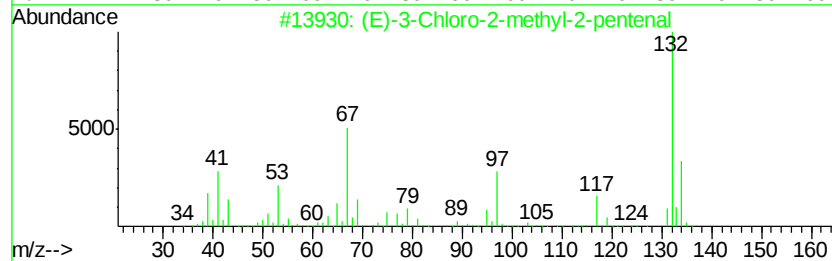
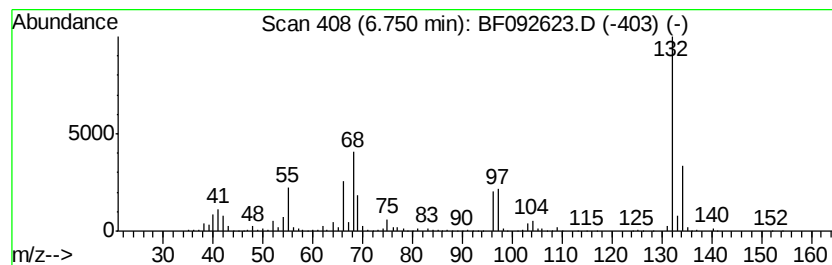
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.75 Concentration Rank 6

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.75 | 30.91 ng | 8103690 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 35   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 22   |
| 3    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 16   |
| 4    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 5    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

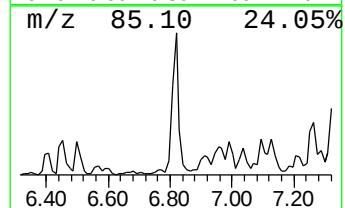
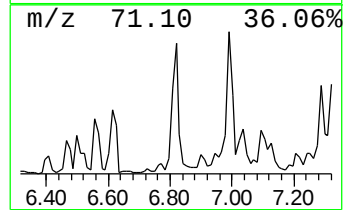
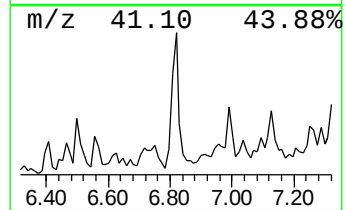
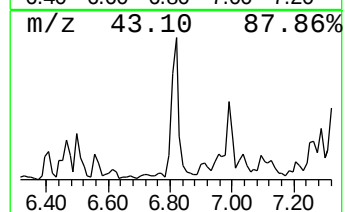
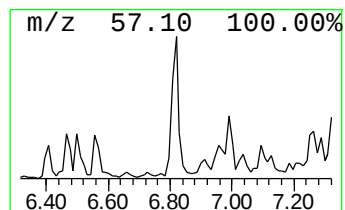
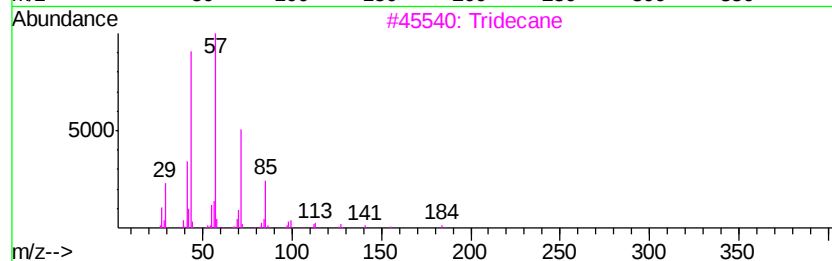
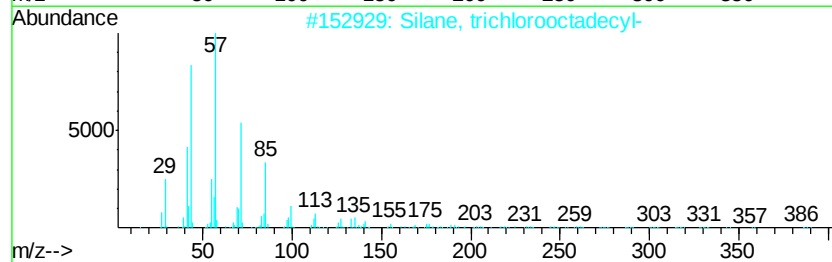
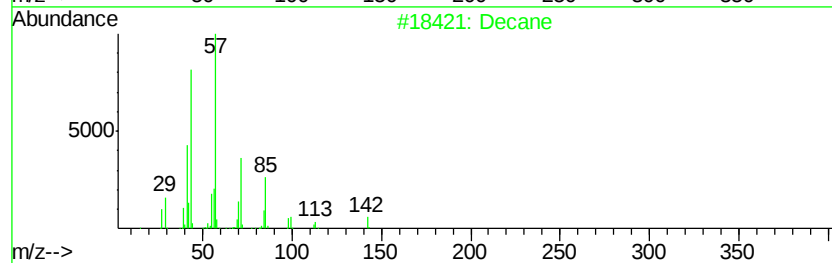
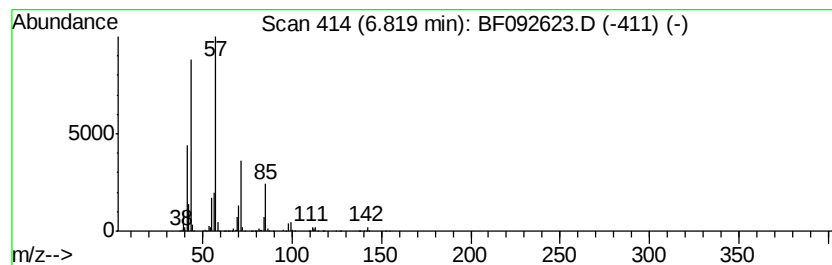
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Decane Concentration Rank 1

| R.T. | EstConc  | Area     | Relative to ISTD       | R.T. |
|------|----------|----------|------------------------|------|
| 6.82 | 50.43 ng | 13220700 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#         | Qual |
|------|----|-----------------------------|-----|-------------|--------------|------|
| 1    | 5  | Decane                      | 142 | C10H22      | 000124-18-5  | 94   |
| 2    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9  | 78   |
| 3    |    | Tridecane                   | 184 | C13H28      | 000629-50-5  | 72   |
| 4    |    | Undecane                    | 156 | C11H24      | 001120-21-4  | 72   |
| 5    |    | 1-Iodo-2-methylnonane       | 268 | C10H21I     | 1000101-47-9 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

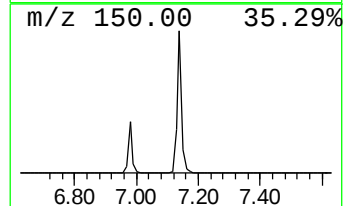
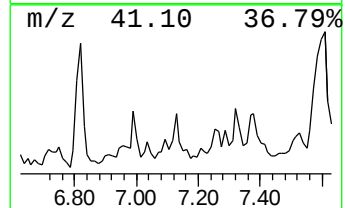
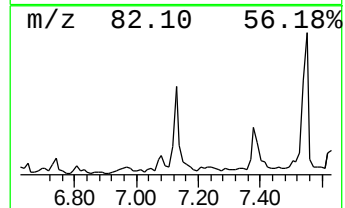
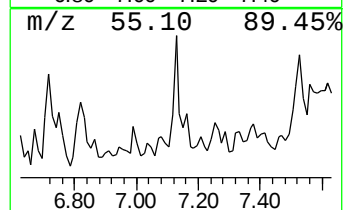
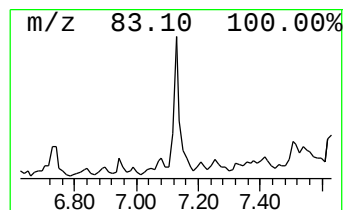
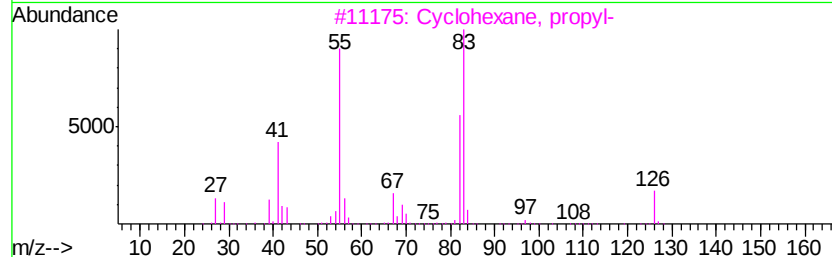
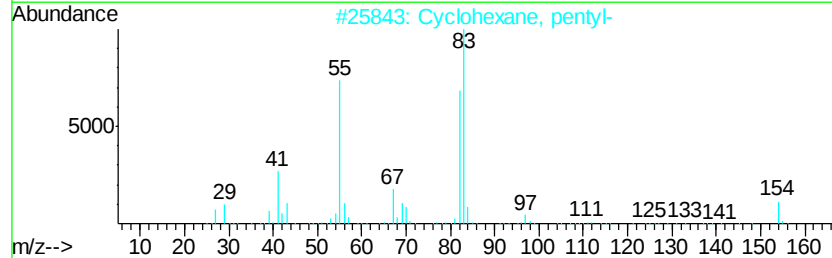
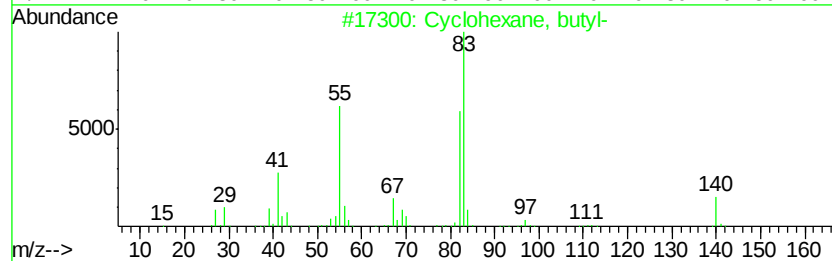
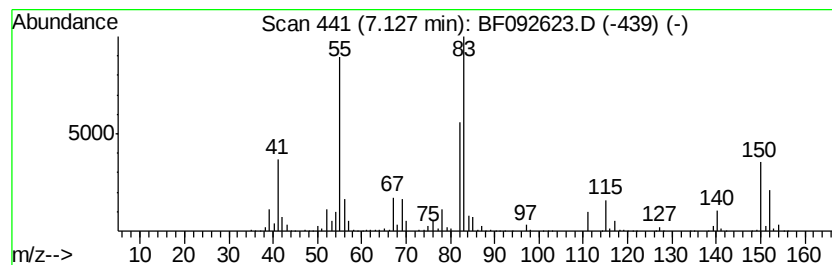
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Cyclohexane, butyl- Concentration Rank 8

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.13 | 29.91 ng | 7841690 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, butyl-                 | 140 | C10H20  | 001678-93-9 | 64   |
| 2    |    | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 58   |
| 3    |    | Cyclohexane, propyl-                | 126 | C9H18   | 001678-92-8 | 49   |
| 4    |    | Cyclohexane, ethyl-                 | 112 | C8H16   | 001678-91-7 | 47   |
| 5    |    | Bicyclo[3.1.1]heptan-3-one, 2,6,... | 152 | C10H16O | 015358-88-0 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

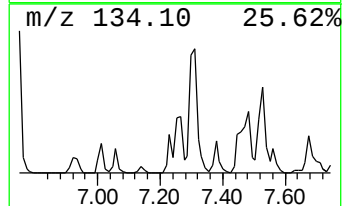
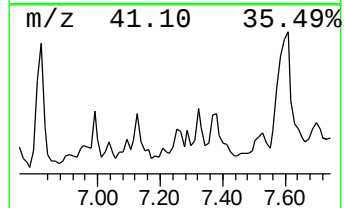
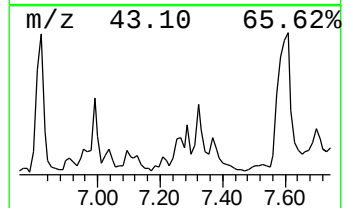
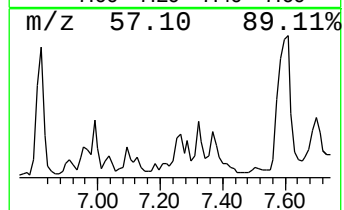
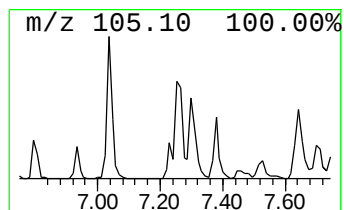
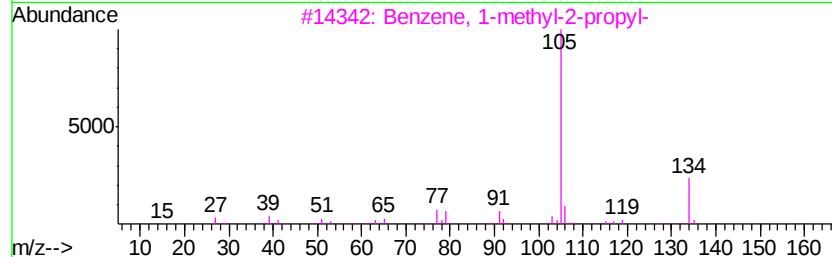
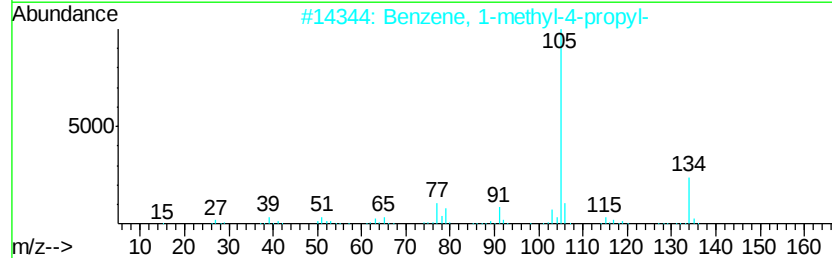
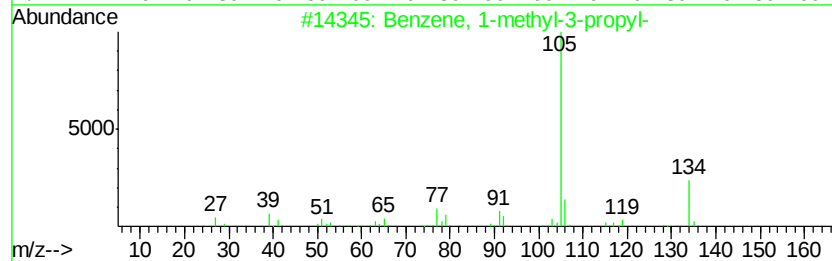
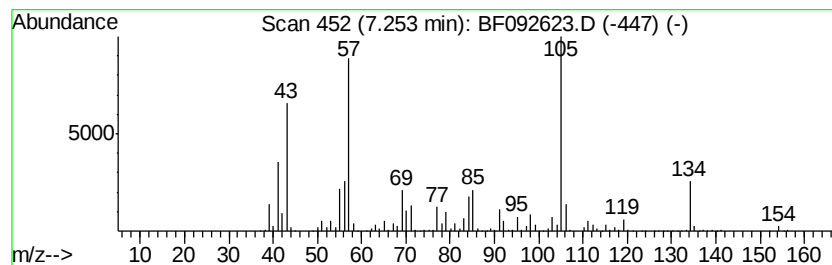
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Benzene, 1-methyl-3-propyl- Concentration Rank 9

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.25 | 28.53 ng | 7480150 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 83   |
| 2    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 38   |
| 3    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 38   |
| 4    |    | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 38   |
| 5    |    | Heptane, 4-ethyl-           | 128 | C9H20   | 002216-32-2 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

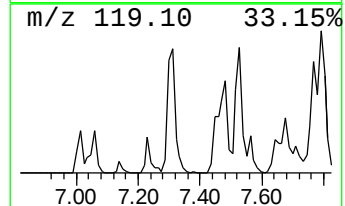
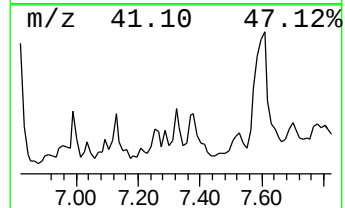
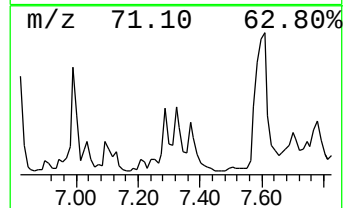
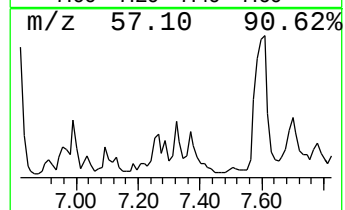
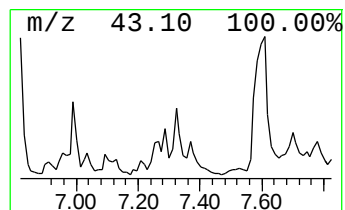
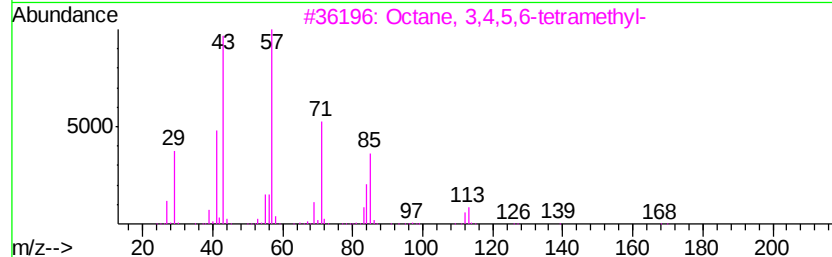
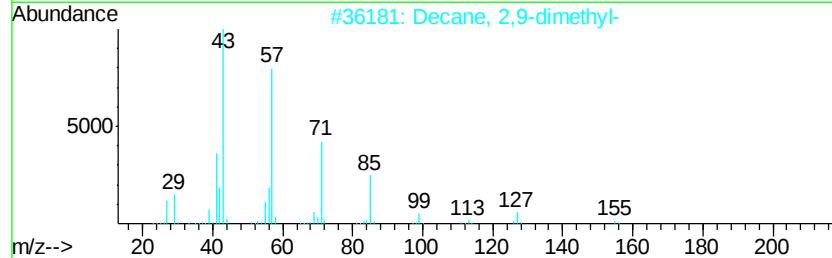
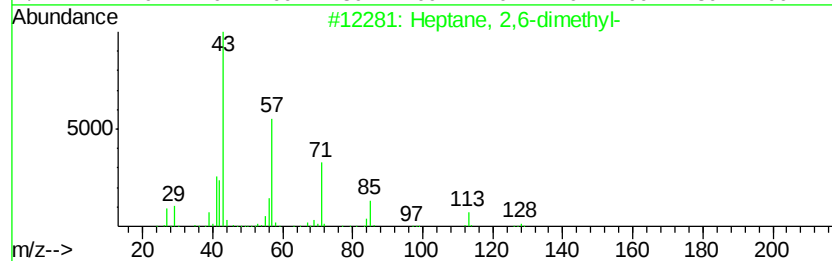
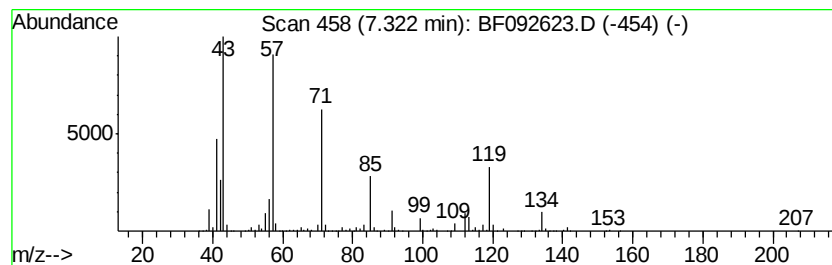
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heptane, 2,6-dimethyl- Concentration Rank 12

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.32 | 25.32 ng | 6638950 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------------|-----|---------|--------------|------|
| 1    | 5  | Heptane, 2,6-dimethyl-       | 128 | C9H20   | 001072-05-5  | 52   |
| 2    |    | Decane, 2,9-dimethyl-        | 170 | C12H26  | 001002-17-1  | 47   |
| 3    |    | Octane, 3,4,5,6-tetramethyl- | 170 | C12H26  | 062185-21-1  | 47   |
| 4    |    | 1-Iodo-2-methylnonane        | 268 | C10H21I | 1000101-47-9 | 47   |
| 5    |    | Undecane, 5-methyl-          | 170 | C12H26  | 001632-70-8  | 47   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

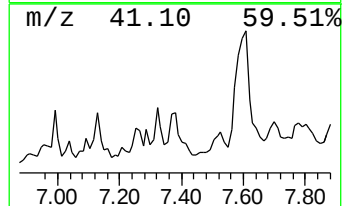
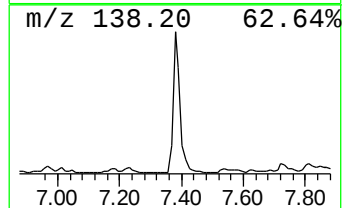
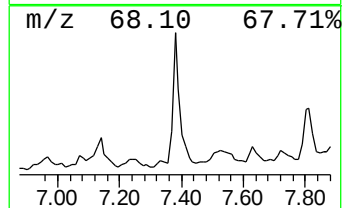
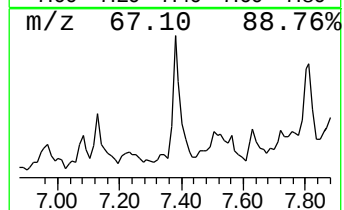
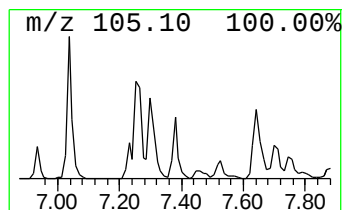
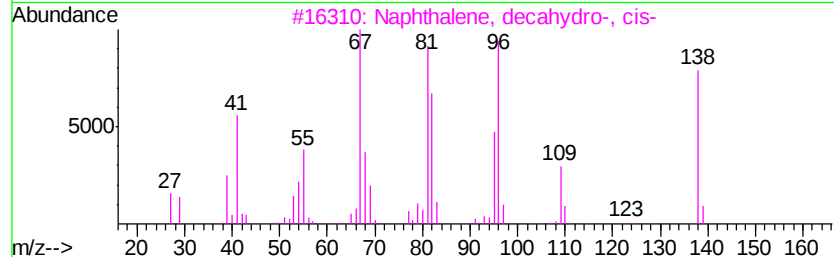
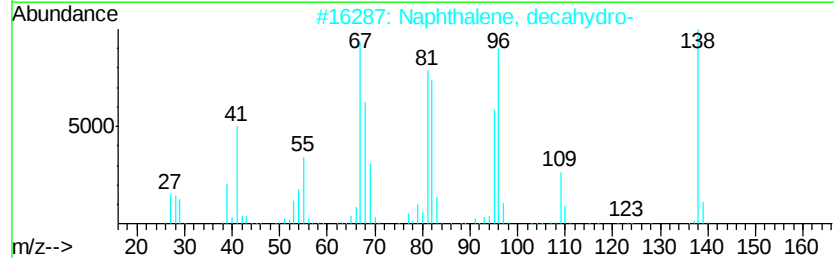
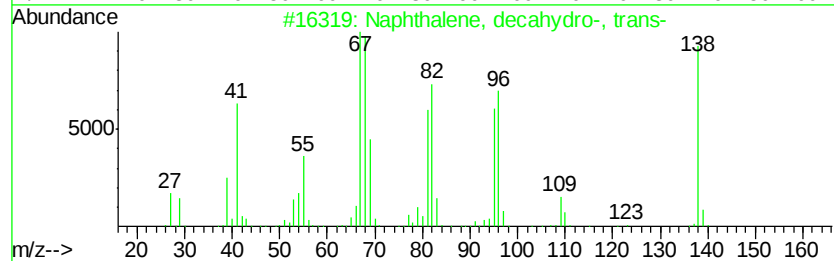
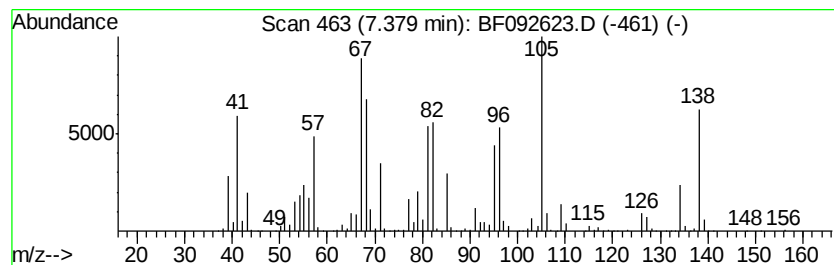
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, decahydro-, tr... Concentration Rank 11

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.38 | 26.01 ng | 6819110 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, decahydro-, trans- | 138 | C10H18  | 000493-02-7 | 91   |
| 2    |    | Naphthalene, decahydro-         | 138 | C10H18  | 000091-17-8 | 90   |
| 3    |    | Naphthalene, decahydro-, cis-   | 138 | C10H18  | 000493-01-6 | 64   |
| 4    |    | 5-Octen-1-ol, (Z)-              | 128 | C8H16O  | 064275-73-6 | 55   |
| 5    |    | Spiro[4.4]nonan-2-one           | 138 | C9H14O  | 034177-18-9 | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

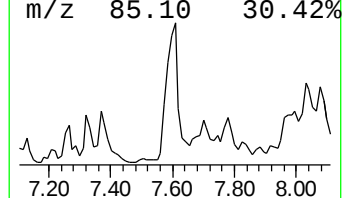
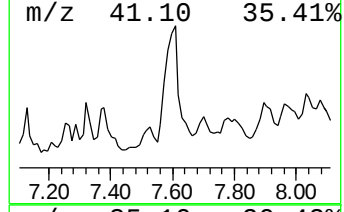
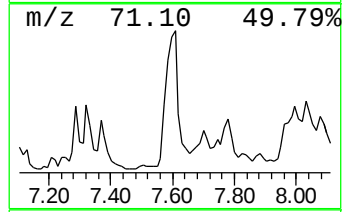
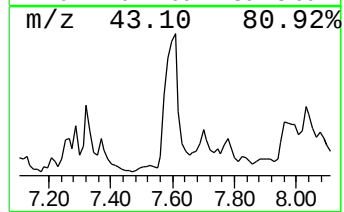
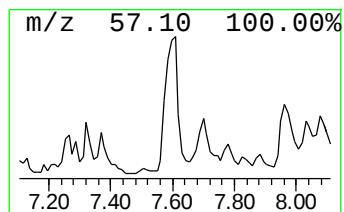
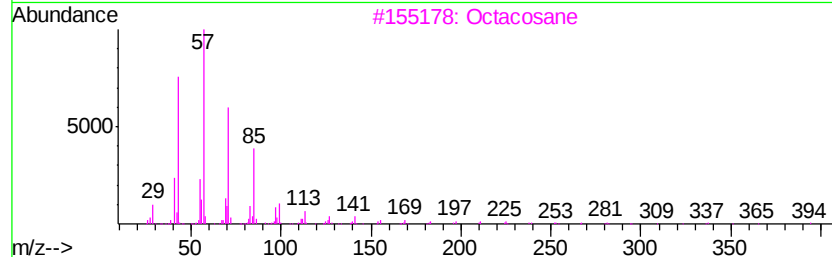
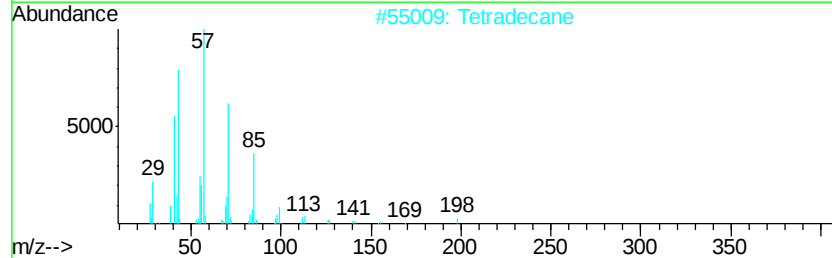
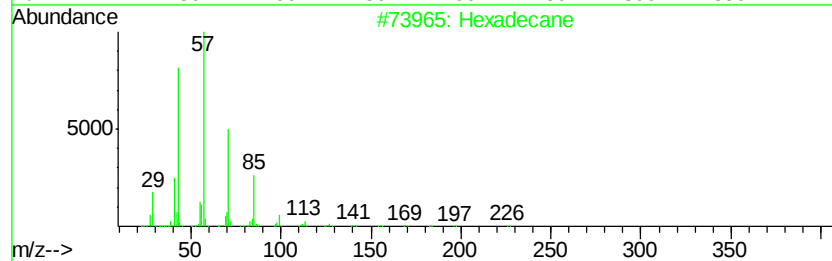
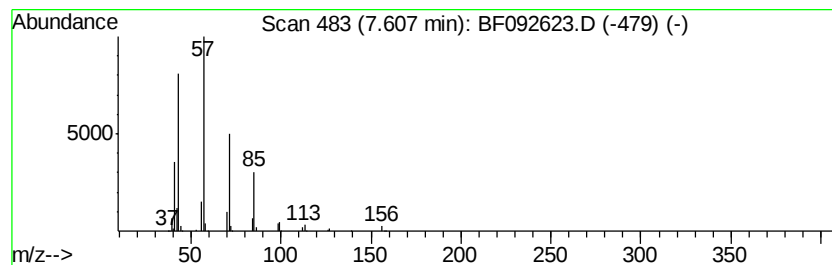
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Hexadecane Concentration Rank 4

| R.T. | EstConc  | Area     | Relative to ISTD       | R.T. |
|------|----------|----------|------------------------|------|
| 7.61 | 39.40 ng | 10329600 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 90   |
| 2       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 90   |
| 3       | Octacosane  |              | 394 | C28H58  | 000630-02-4 | 83   |
| 4       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 83   |
| 5       | Undecane    |              | 156 | C11H24  | 001120-21-4 | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

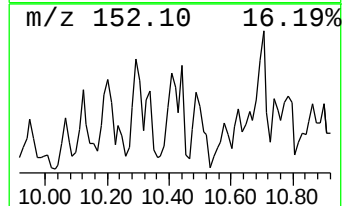
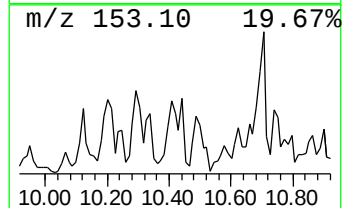
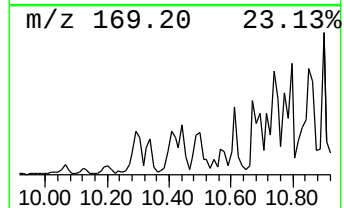
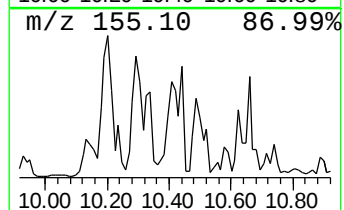
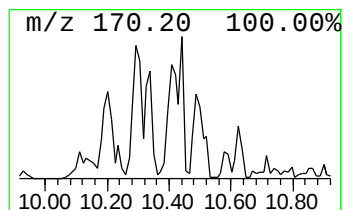
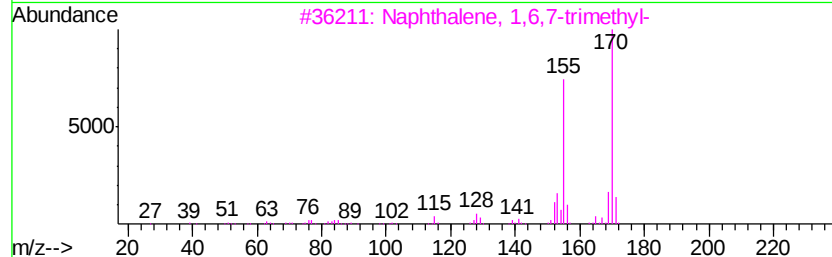
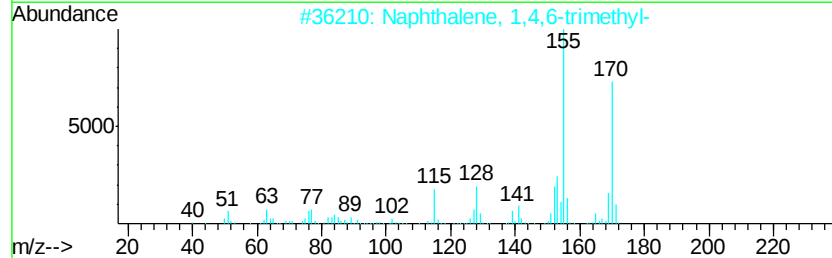
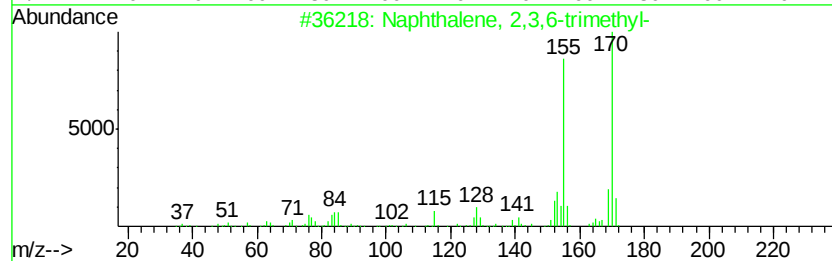
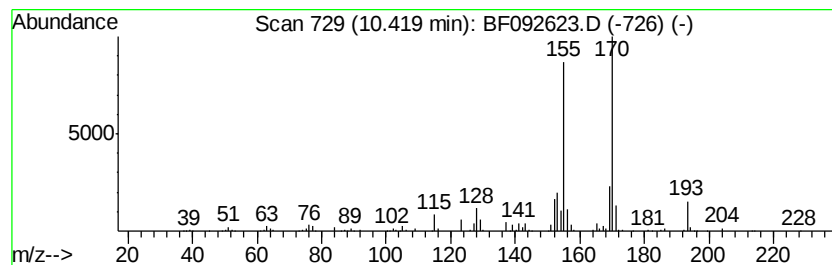
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ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.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 10 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

| R.T.    | EstConc  | Area                            | Relative to ISTD | R.T.            |
|---------|----------|---------------------------------|------------------|-----------------|
| 10.42   | 20.00 ng | 3508390                         | Acenaphthene-d10 | 10.09           |
| Hit# of | 5        | Tentative ID                    | MW MolForm       | CAS# Qual       |
| 1       |          | Naphthalene, 2,3,6-trimethyl-   | 170 C13H14       | 000829-26-5 96  |
| 2       |          | Naphthalene, 1,4,6-trimethyl-   | 170 C13H14       | 002131-42-2 96  |
| 3       |          | Naphthalene, 1,6,7-trimethyl-   | 170 C13H14       | 002245-38-7 94  |
| 4       |          | Naphthalene, 1,4,5-trimethyl-   | 170 C13H14       | 002131-41-1 91  |
| 5       |          | 3-(2-Methyl-propenyl)-1H-indene | 170 C13H14       | 1000187-78-5 80 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

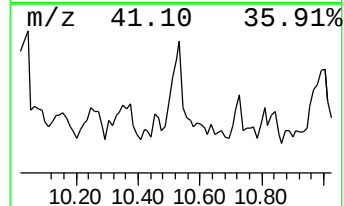
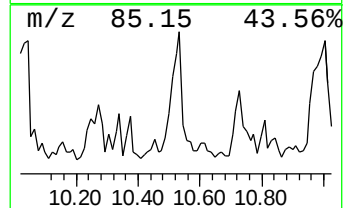
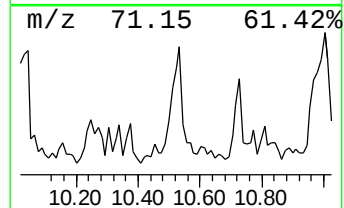
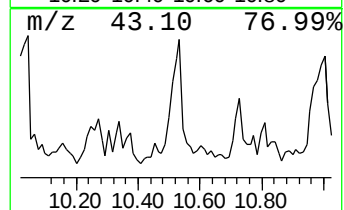
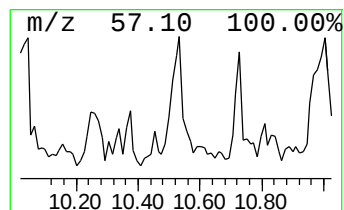
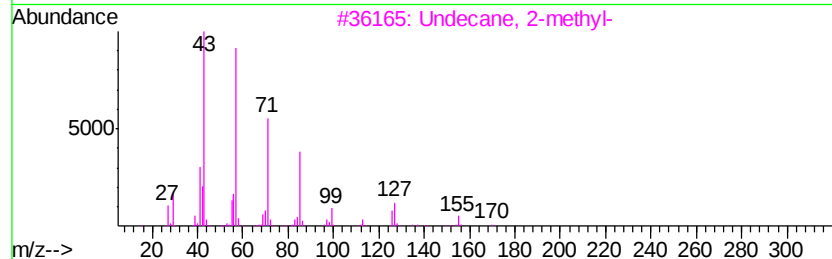
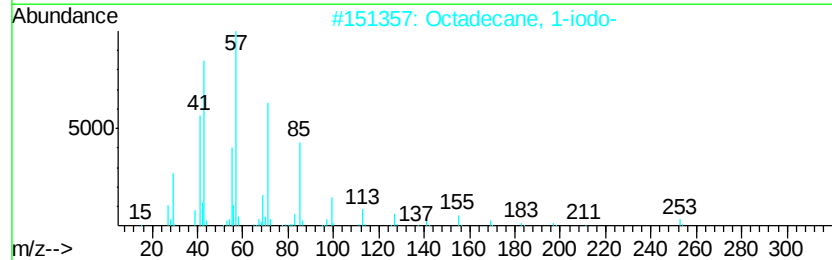
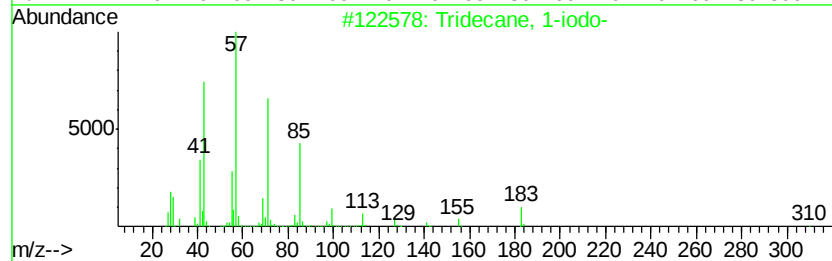
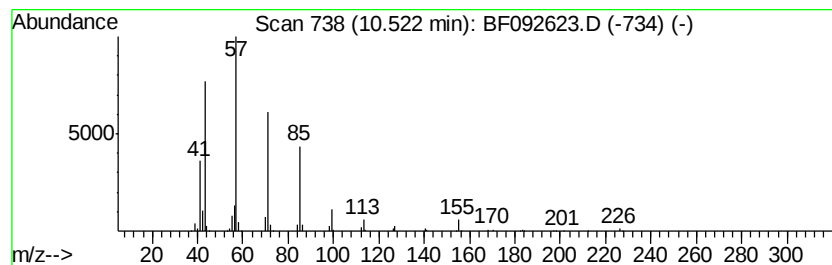
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ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.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 11 Tridecane, 1-iodo- Concentration Rank 3

| R.T.    | EstConc  | Area                | Relative to ISTD | R.T.           |
|---------|----------|---------------------|------------------|----------------|
| 10.52   | 41.79 ng | 7330420             | Acenaphthene-d10 | 10.09          |
| Hit# of | 5        | Tentative ID        | MW MolForm       | CAS# Qual      |
| 1       |          | Tridecane, 1-iodo-  | 310 C13H27I      | 035599-77-0 90 |
| 2       |          | Octadecane, 1-iodo- | 380 C18H37I      | 000629-93-6 90 |
| 3       |          | Undecane, 2-methyl- | 170 C12H26       | 007045-71-8 87 |
| 4       |          | Eicosane            | 282 C20H42       | 000112-95-8 80 |
| 5       |          | Hexadecane          | 226 C16H34       | 000544-76-3 80 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

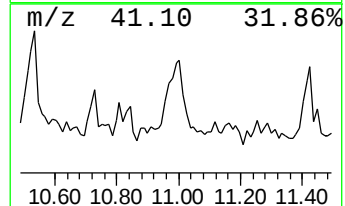
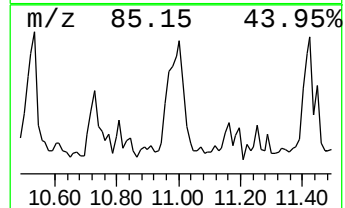
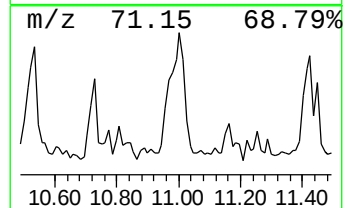
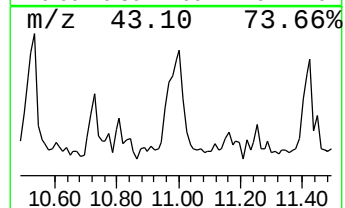
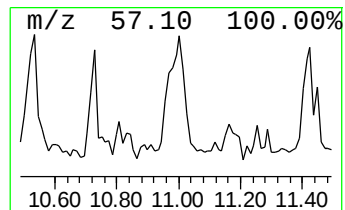
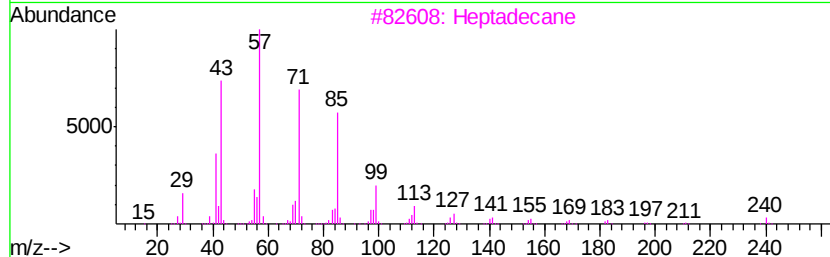
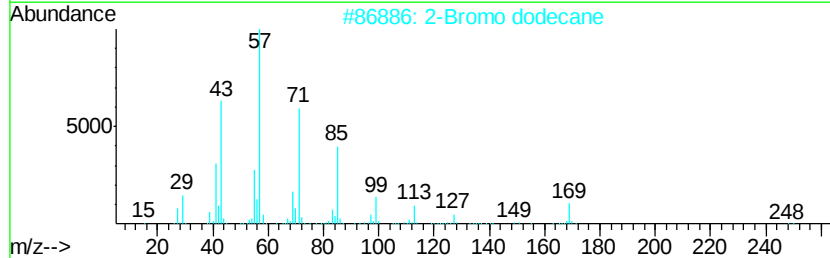
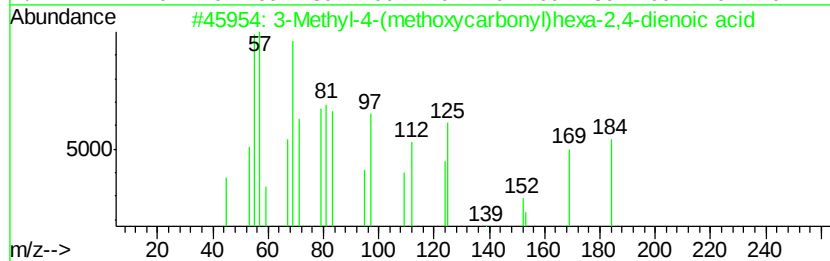
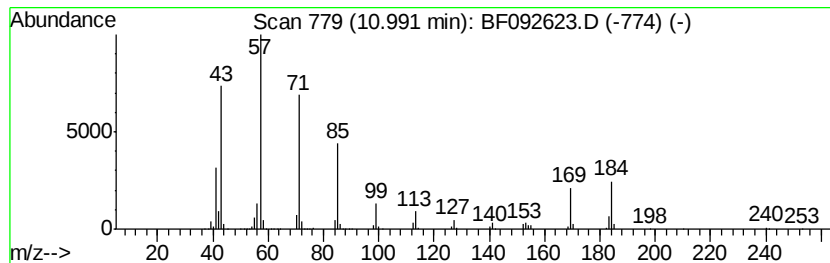
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 3-Methyl-4-(methoxycarbonyl... Concentration Rank 5

| R.T.      | EstConc                             | Area     | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|----------|------------------|--------------|------|
| 10.99     | 37.02 ng                            | 10377600 | Phenanthrene-d10 | 11.55        |      |
| Hit# of 5 | Tentative ID                        | MW       | MolForm          | CAS#         | Qual |
| 1         | 3-Methyl-4-(methoxycarbonyl)hexa... | 184      | C9H12O4          | 1000104-10-8 | 91   |
| 2         | 2-Bromo dodecane                    | 248      | C12H25Br         | 013187-99-0  | 74   |
| 3         | Heptadecane                         | 240      | C17H36           | 000629-78-7  | 70   |
| 4         | Octadecane, 1-iodo-                 | 380      | C18H37I          | 000629-93-6  | 64   |
| 5         | Eicosane                            | 282      | C20H42           | 000112-95-8  | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

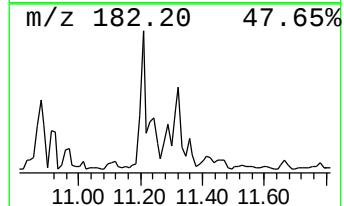
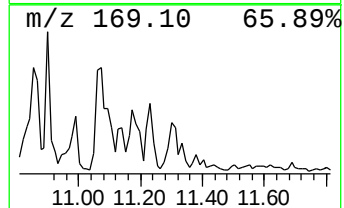
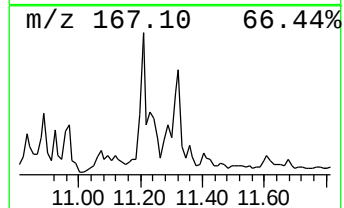
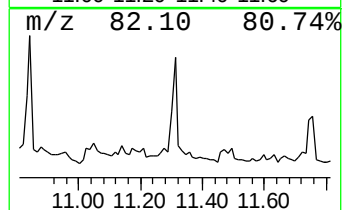
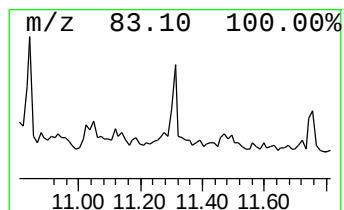
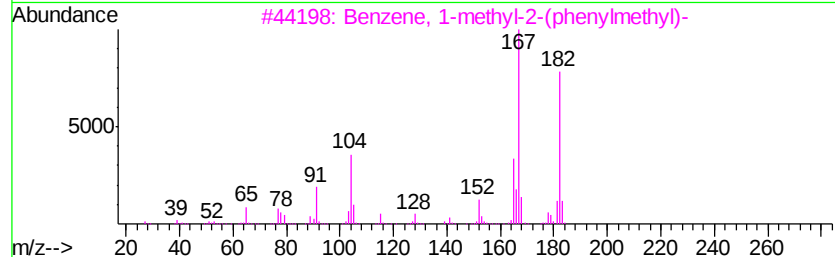
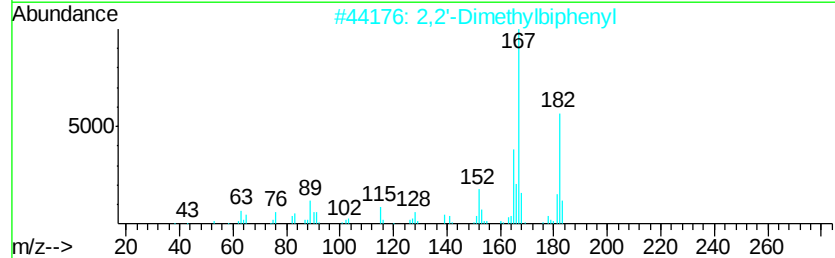
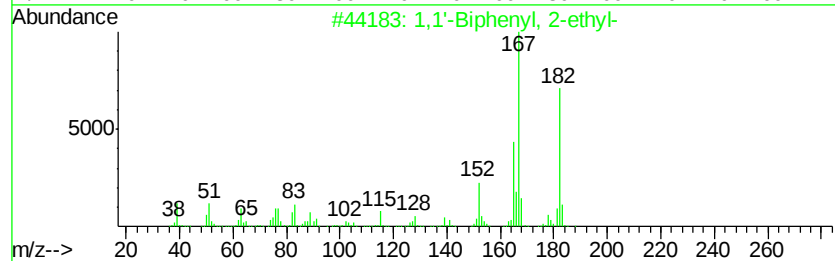
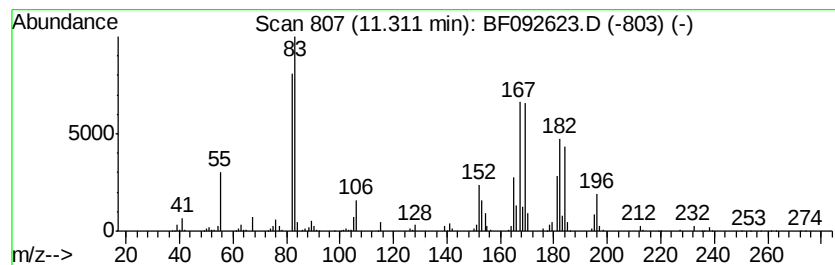
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 unknown11.31 Concentration Rank 20

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.31 | 17.07 ng | 4786650 | Phenanthrene-d10 | 11.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2-ethyl-             | 182 | C14H14  | 001812-51-7 | 45   |
| 2    |    | 2,2'-Dimethylbiphenyl               | 182 | C14H14  | 000605-39-0 | 41   |
| 3    |    | Benzene, 1-methyl-2-(phenylmethyl)- | 182 | C14H14  | 000713-36-0 | 25   |
| 4    |    | 1,1'-Biphenyl, 2,3'-dimethyl-       | 182 | C14H14  | 000611-43-8 | 25   |
| 5    |    | Benzene, 1-methyl-4-(phenylmethyl)- | 182 | C14H14  | 000620-83-7 | 15   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

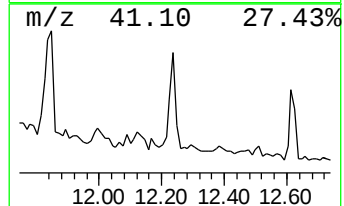
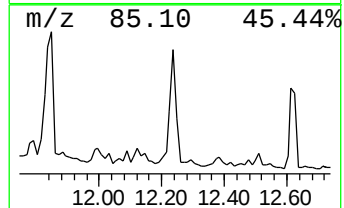
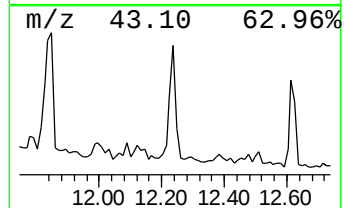
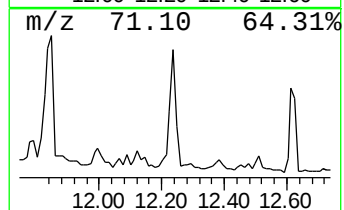
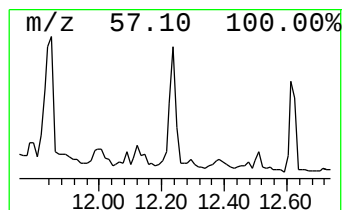
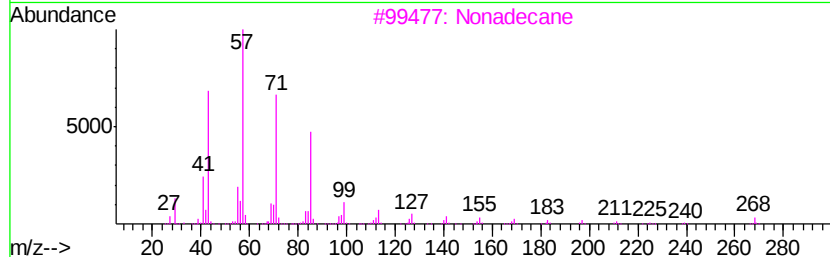
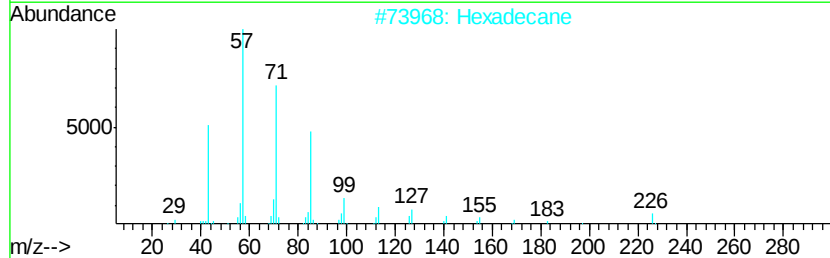
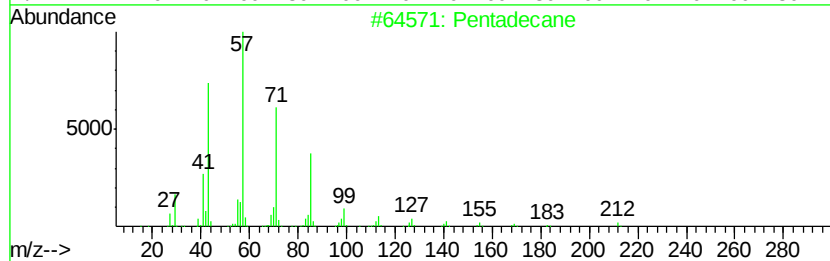
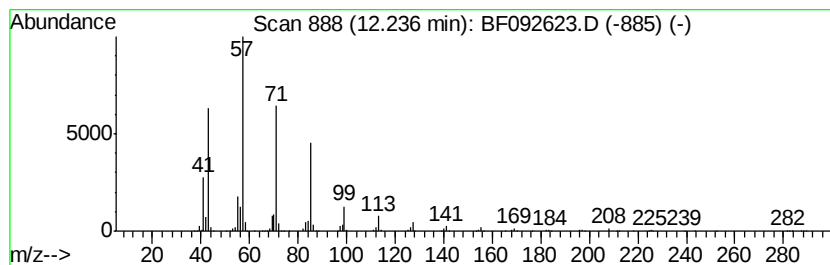
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 Pentadecane Concentration Rank 16

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.24 | 21.44 ng | 6010560 | Phenanthrene-d10 | 11.55 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane        | 212 | C15H32  | 000629-62-9 | 91   |
| 2    |    | Hexadecane         | 226 | C16H34  | 000544-76-3 | 90   |
| 3    |    | Nonadecane         | 268 | C19H40  | 000629-92-5 | 90   |
| 4    |    | Dodecane, 1-iodo-  | 296 | C12H25I | 004292-19-7 | 86   |
| 5    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

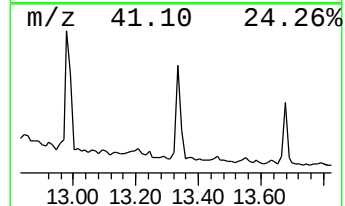
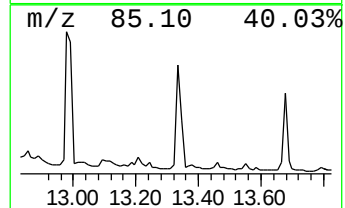
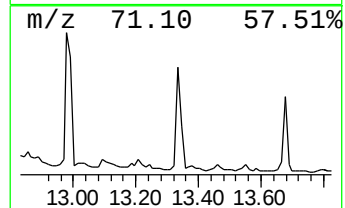
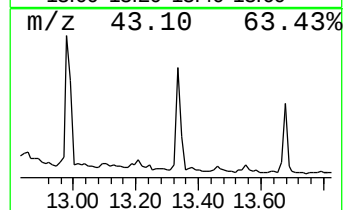
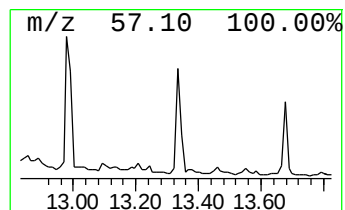
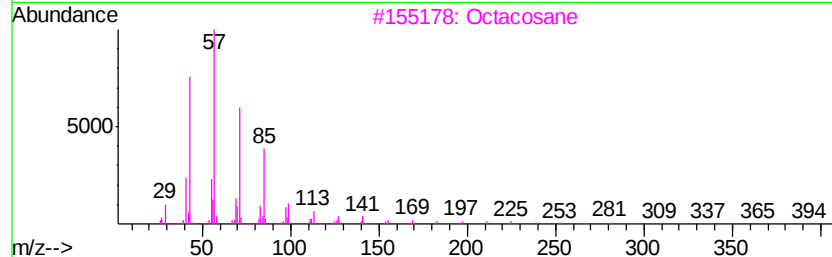
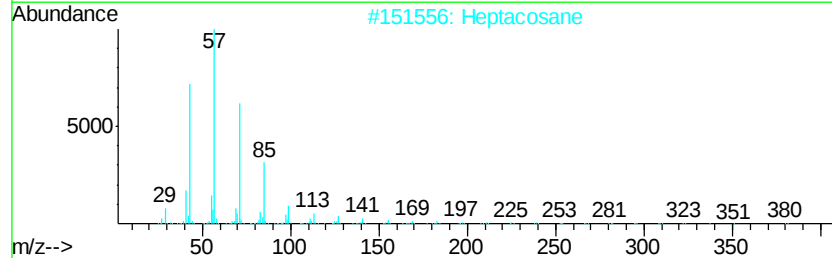
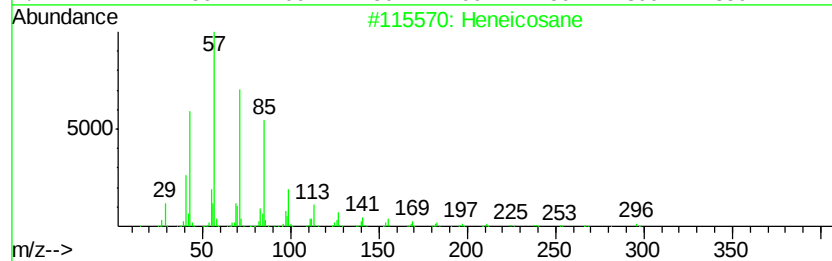
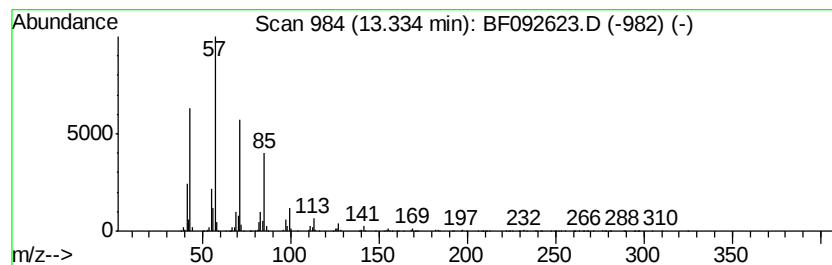
Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.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 Heneicosane Concentration Rank 2

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------|--------------|------------------|-----------|
| 13.33   | 46.09 ng                | 2215130      | Chrysene-d12     | 14.17     |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heneicosane             | 296 C21H44   | 000629-94-7      | 91        |
| 2       | Heptacosane             | 380 C27H56   | 000593-49-7      | 91        |
| 3       | Octacosane              | 394 C28H58   | 000630-02-4      | 91        |
| 4       | Hexacosane              | 366 C26H54   | 000630-01-3      | 90        |
| 5       | 1-Iodo-2-methylundecane | 296 C12H25I  | 073105-67-6      | 87        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
Data File : BF092623.D  
Acq On : 28 Jan 2017 13:23  
Operator : SJ/MA  
Sample : I1384-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

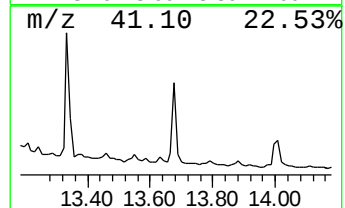
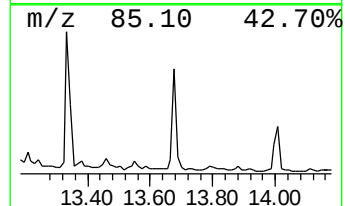
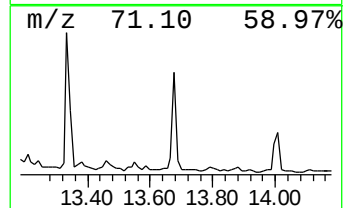
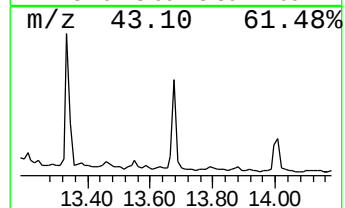
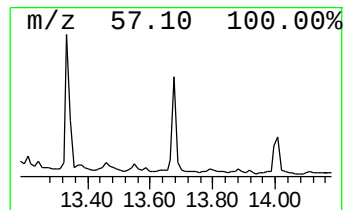
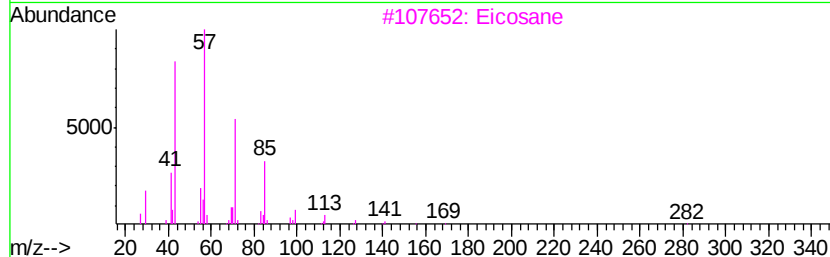
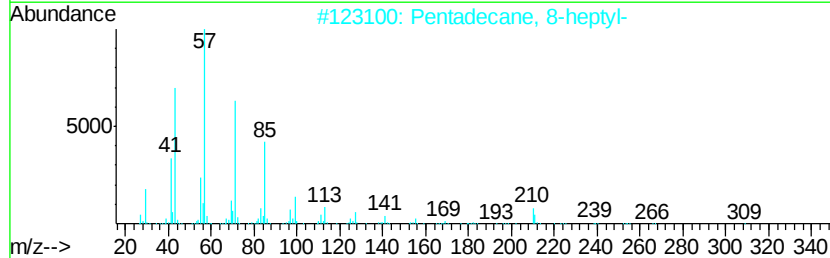
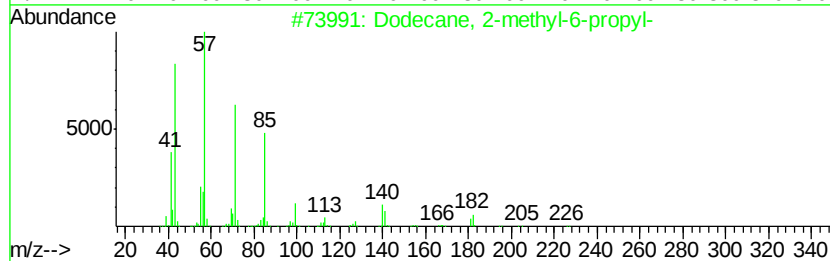
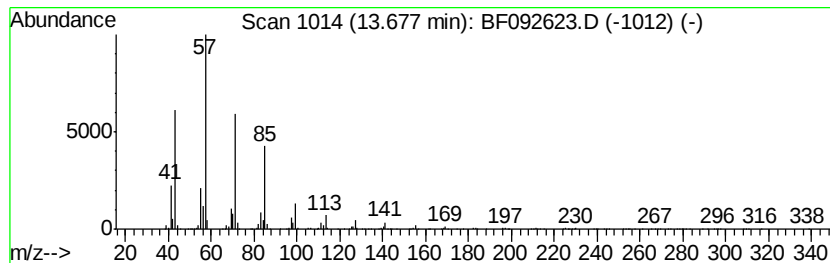
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Dodecane, 2-methyl-6-propyl- Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.68 | 30.26 ng | 1454280 | Chrysene-d12     | 14.17 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 93   |
| 2    |    | Pentadecane, 8-heptyl-       | 310 | C22H46  | 071005-15-7 | 91   |
| 3    |    | Eicosane                     | 282 | C20H42  | 000112-95-8 | 91   |
| 4    |    | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 90   |
| 5    |    | Tridecane, 1-iodo-           | 310 | C13H27I | 035599-77-0 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
 Data File : BF092623.D  
 Acq On : 28 Jan 2017 13:23  
 Operator : SJ/MA  
 Sample : I1384-05  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-3A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.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 |
| unknown6.21          | 6.21  | 19.5    | ng    | 5106100  | 1                       | 6.98  | 5243200 | 20.0 |
| unknown6.50          | 6.50  | 17.7    | ng    | 4645830  | 1                       | 6.98  | 5243200 | 20.0 |
| unknown6.75          | 6.75  | 30.9    | ng    | 8103690  | 1                       | 6.98  | 5243200 | 20.0 |
| Decane               | 6.82  | 50.4    | ng    | 13220700 | 1                       | 6.98  | 5243200 | 20.0 |
| Cyclohexane, butyl-  | 7.13  | 29.9    | ng    | 7841690  | 1                       | 6.98  | 5243200 | 20.0 |
| Benzene, 1-methyl... | 7.25  | 28.5    | ng    | 7480150  | 1                       | 6.98  | 5243200 | 20.0 |
| Heptane, 2,6-dime... | 7.32  | 25.3    | ng    | 6638950  | 1                       | 6.98  | 5243200 | 20.0 |
| Naphthalene, deca... | 7.38  | 26.0    | ng    | 6819110  | 1                       | 6.98  | 5243200 | 20.0 |
| Hexadecane           | 7.61  | 39.4    | ng    | 10329600 | 1                       | 6.98  | 5243200 | 20.0 |
| Naphthalene, 2,3,... | 10.42 | 20.0    | ng    | 3508390  | 3                       | 10.09 | 3508390 | 20.0 |
| Tridecane, 1-iodo-   | 10.52 | 41.8    | ng    | 7330420  | 3                       | 10.09 | 3508390 | 20.0 |
| 3-Methyl-4-(metho... | 10.99 | 37.0    | ng    | 10377600 | 4                       | 11.55 | 5606690 | 20.0 |
| unknown11.31         | 11.31 | 17.1    | ng    | 4786650  | 4                       | 11.55 | 5606690 | 20.0 |
| Pentadecane          | 12.24 | 21.4    | ng    | 6010560  | 4                       | 11.55 | 5606690 | 20.0 |
| Heneicosane          | 13.33 | 46.1    | ng    | 2215130  | 5                       | 14.17 | 961179  | 20.0 |
| Dodecane, 2-methy... | 13.68 | 30.3    | ng    | 1454280  | 5                       | 14.17 | 961179  | 20.0 |