

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF082917\  
 Data File : BF098120.D  
 Acq On : 29 Aug 2017 19:36  
 Operator : SJ/JU  
 Sample : I4989-07  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BERGEN-GEN-S3-COMP

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-BF081517.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         | 4.934       | 480           | 484         | 498          | rVB      | 204817         | 305959        | 8.88%           | 0.945%        |
| 2         | 5.345       | 548           | 554         | 557          | rBV      | 3017552        | 3156838       | 91.63%          | 9.746%        |
| 3         | 6.375       | 723           | 729         | 733          | rBV      | 3012825        | 3445112       | 100.00%         | 10.636%       |
| 4         | 6.504       | 746           | 751         | 754          | rBV      | 3193112        | 3191904       | 92.65%          | 9.855%        |
| 5         | 6.734       | 786           | 790         | 793          | rBV      | 1001862        | 849921        | 24.67%          | 2.624%        |
| 6         | 6.886       | 812           | 816         | 820          | rBV      | 2369361        | 2345995       | 68.10%          | 7.243%        |
| 7         | 7.298       | 880           | 886         | 889          | rBV      | 2069459        | 2089355       | 60.65%          | 6.451%        |
| 8         | 8.016       | 1003          | 1008        | 1011         | rBV      | 1278672        | 1130427       | 32.81%          | 3.490%        |
| 9         | 8.445       | 1076          | 1081        | 1085         | rBV2     | 28762          | 34949         | 1.01%           | 0.108%        |
| 10        | 8.728       | 1127          | 1129        | 1133         | rVB      | 44036          | 35117         | 1.02%           | 0.108%        |
| 11        | 9.092       | 1186          | 1191        | 1195         | rBV      | 3189970        | 3212848       | 93.26%          | 9.919%        |
| 12        | 9.175       | 1203          | 1205        | 1209         | rVB2     | 47374          | 43886         | 1.27%           | 0.135%        |
| 13        | 9.486       | 1254          | 1258        | 1262         | rVV      | 592644         | 497737        | 14.45%          | 1.537%        |
| 14        | 9.627       | 1280          | 1282        | 1284         | rBV      | 36371          | 35533         | 1.03%           | 0.110%        |
| 15        | 9.704       | 1293          | 1295        | 1299         | rVB      | 91814          | 71493         | 2.08%           | 0.221%        |
| 16        | 9.769       | 1299          | 1306        | 1309         | rBV      | 1388905        | 1170470       | 33.97%          | 3.614%        |
| 17        | 9.798       | 1309          | 1311        | 1315         | rVB2     | 43423          | 40653         | 1.18%           | 0.126%        |
| 18        | 10.204      | 1377          | 1380        | 1383         | rVB      | 97667          | 71451         | 2.07%           | 0.221%        |
| 19        | 10.422      | 1412          | 1417        | 1420         | rBV2     | 37756          | 48774         | 1.42%           | 0.151%        |
| 20        | 10.557      | 1433          | 1440        | 1443         | rBV      | 1902588        | 1817887       | 52.77%          | 5.613%        |
| 21        | 10.592      | 1443          | 1446        | 1451         | rVB3     | 59776          | 56803         | 1.65%           | 0.175%        |
| 22        | 10.674      | 1457          | 1460        | 1469         | rBV      | 141101         | 169616        | 4.92%           | 0.524%        |
| 23        | 11.121      | 1533          | 1536        | 1539         | rBV2     | 65040          | 53085         | 1.54%           | 0.164%        |
| 24        | 11.151      | 1539          | 1541        | 1547         | rVB3     | 32564          | 35426         | 1.03%           | 0.109%        |
| 25        | 11.251      | 1554          | 1558        | 1560         | rBV      | 1216814        | 1031791       | 29.95%          | 3.186%        |
| 26        | 11.274      | 1560          | 1562        | 1565         | rVV      | 183431         | 142063        | 4.12%           | 0.439%        |
| 27        | 11.321      | 1565          | 1570        | 1573         | rVB      | 42344          | 47784         | 1.39%           | 0.148%        |
| 28        | 11.780      | 1645          | 1648        | 1651         | rVB      | 65226          | 56650         | 1.64%           | 0.175%        |
| 29        | 11.863      | 1658          | 1662        | 1664         | rBV      | 64685          | 71580         | 2.08%           | 0.221%        |
| 30        | 11.886      | 1664          | 1666        | 1671         | rVB2     | 39688          | 38709         | 1.12%           | 0.120%        |
| 31        | 12.057      | 1690          | 1695        | 1702         | rVB3     | 38886          | 71707         | 2.08%           | 0.221%        |
| 32        | 12.298      | 1733          | 1736        | 1739         | rBV      | 44094          | 44649         | 1.30%           | 0.138%        |
| 33        | 12.339      | 1739          | 1743        | 1748         | rVB4     | 34355          | 55988         | 1.63%           | 0.173%        |
| 34        | 12.457      | 1760          | 1763        | 1767         | rBV      | 413160         | 357574        | 10.38%          | 1.104%        |

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 Stop Thrs : 0

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 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-BF081517.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.686 | 1796 | 1802 | 1805 | rBV  | 404177  | 400914  | 11.64% | 1.238% |
| 36 | 12.839 | 1823 | 1828 | 1831 | rVB  | 2476148 | 2378400 | 69.04% | 7.343% |
| 37 | 12.910 | 1835 | 1840 | 1844 | rBV5 | 29849   | 51347   | 1.49%  | 0.159% |
| 38 | 13.015 | 1855 | 1858 | 1861 | rVB2 | 63952   | 62579   | 1.82%  | 0.193% |
| 39 | 13.080 | 1865 | 1869 | 1872 | rVB2 | 43374   | 50797   | 1.47%  | 0.157% |
| 40 | 13.115 | 1872 | 1875 | 1878 | rBV  | 55588   | 60698   | 1.76%  | 0.187% |
| 41 | 13.415 | 1920 | 1926 | 1928 | rBV5 | 27817   | 40907   | 1.19%  | 0.126% |
| 42 | 13.521 | 1941 | 1944 | 1949 | rVB  | 45724   | 46823   | 1.36%  | 0.145% |
| 43 | 13.633 | 1958 | 1963 | 1965 | rBV3 | 41121   | 55889   | 1.62%  | 0.173% |
| 44 | 13.733 | 1977 | 1980 | 1986 | rVB2 | 167891  | 188813  | 5.48%  | 0.583% |
| 45 | 13.880 | 1998 | 2005 | 2008 | rBV2 | 903818  | 1118015 | 32.45% | 3.452% |
| 46 | 13.910 | 2008 | 2010 | 2016 | rVB  | 206613  | 198130  | 5.75%  | 0.612% |
| 47 | 14.268 | 2068 | 2071 | 2074 | rVB  | 43728   | 37740   | 1.10%  | 0.117% |
| 48 | 14.362 | 2084 | 2087 | 2090 | rBV5 | 49153   | 55287   | 1.60%  | 0.171% |
| 49 | 14.898 | 2174 | 2178 | 2181 | rBV  | 198807  | 290229  | 8.42%  | 0.896% |
| 50 | 15.180 | 2222 | 2226 | 2232 | rVB  | 110597  | 141214  | 4.10%  | 0.436% |
| 51 | 15.239 | 2232 | 2236 | 2242 | rBV  | 161421  | 198266  | 5.75%  | 0.612% |
| 52 | 15.304 | 2242 | 2247 | 2250 | rBV  | 590767  | 720575  | 20.92% | 2.225% |
| 53 | 15.745 | 2319 | 2322 | 2327 | rBV2 | 34673   | 49638   | 1.44%  | 0.153% |
| 54 | 15.792 | 2327 | 2330 | 2333 | rBV4 | 28662   | 38059   | 1.10%  | 0.118% |
| 55 | 15.962 | 2355 | 2359 | 2367 | rVB9 | 36182   | 68040   | 1.97%  | 0.210% |
| 56 | 16.215 | 2399 | 2402 | 2408 | rBV4 | 25803   | 42516   | 1.23%  | 0.131% |
| 57 | 16.368 | 2424 | 2428 | 2436 | rVB9 | 31907   | 65320   | 1.90%  | 0.202% |
| 58 | 16.668 | 2474 | 2479 | 2489 | rVB2 | 68500   | 137518  | 3.99%  | 0.425% |
| 59 | 17.080 | 2546 | 2549 | 2557 | rVB2 | 37475   | 62210   | 1.81%  | 0.192% |

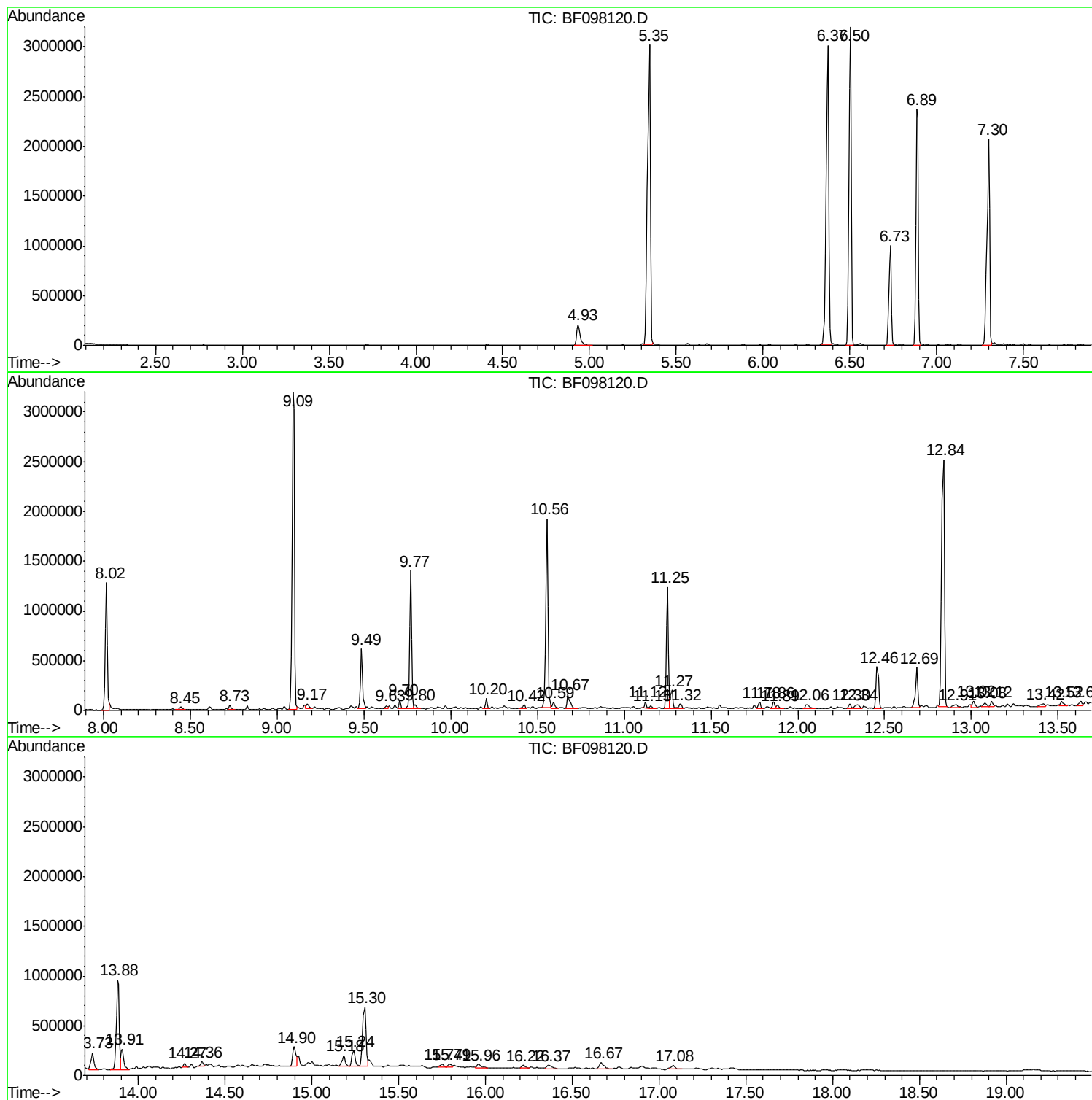
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

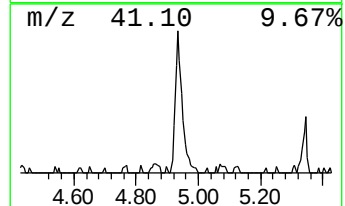
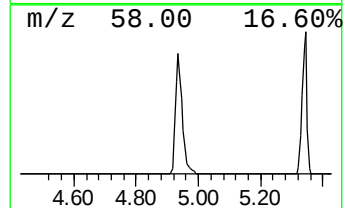
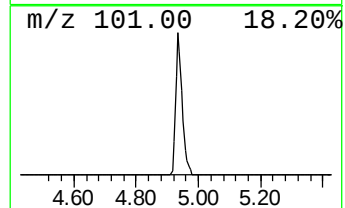
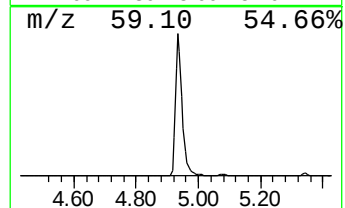
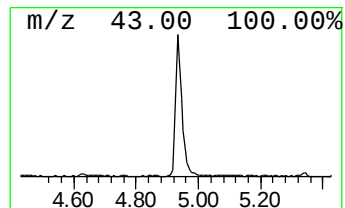
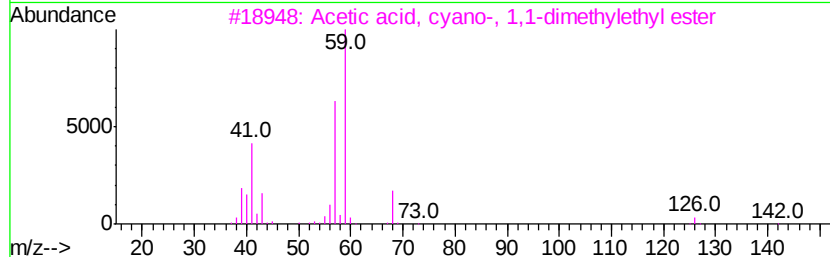
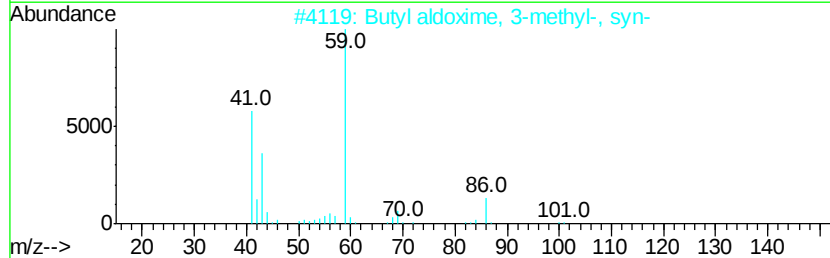
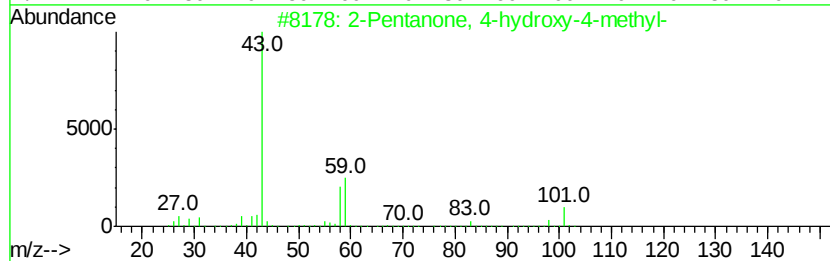
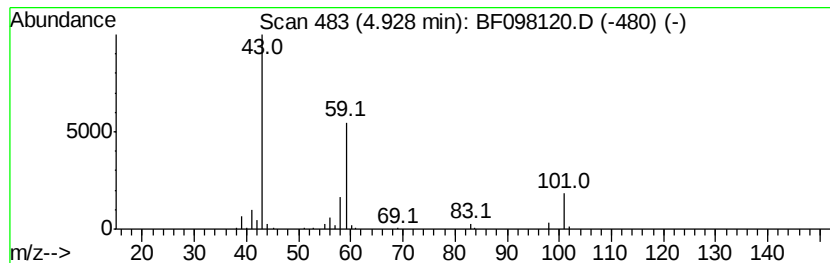
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.93 | 7.20 ng | 305959 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | Butyl aldoxime, 3-methyl-, syn-      | 101 | C5H11NO  | 005780-40-5 | 25   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 4    |    |   | Propane, 2-methyl-2-(1-methyleth...  | 116 | C7H16O   | 017348-59-3 | 23   |
| 5    |    |   | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |



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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

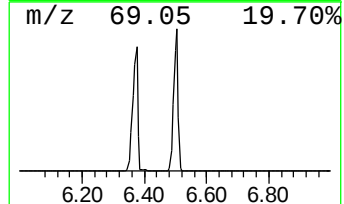
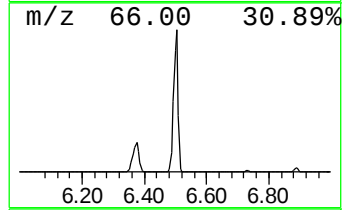
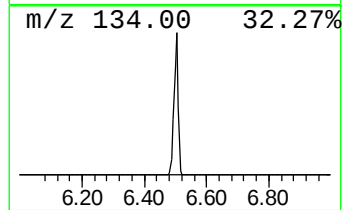
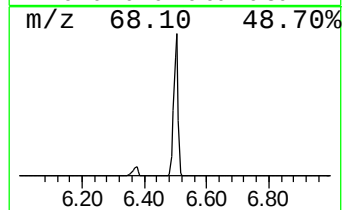
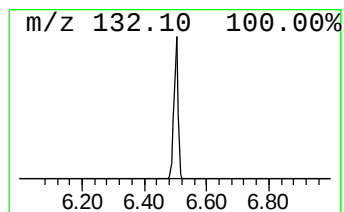
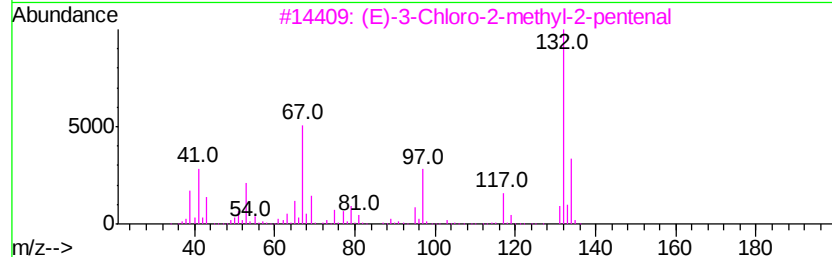
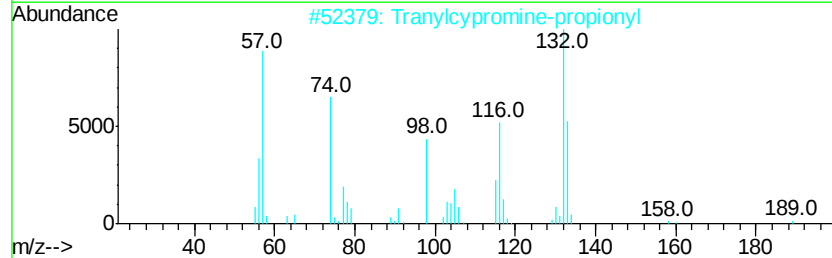
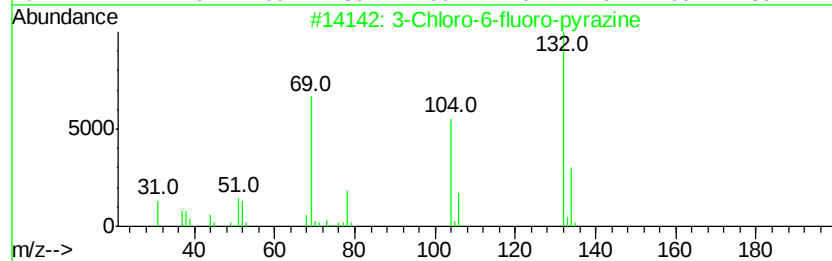
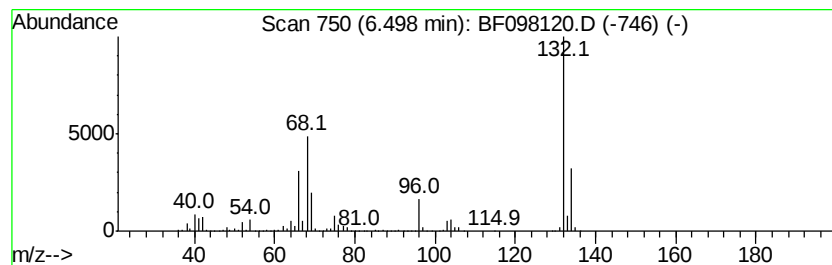
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 75.11 ng | 3191900 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2  | 029490-19-5  | 9    |



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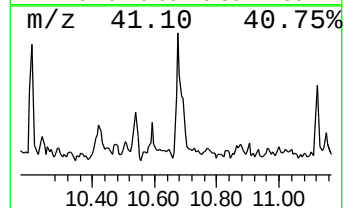
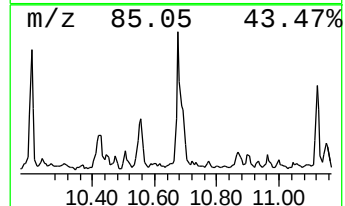
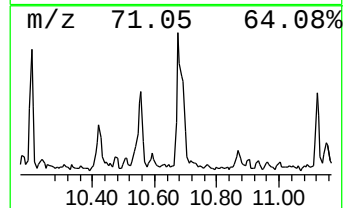
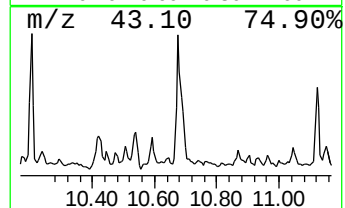
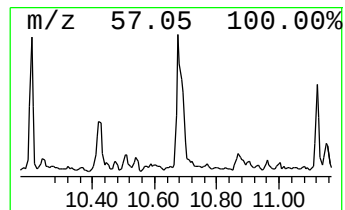
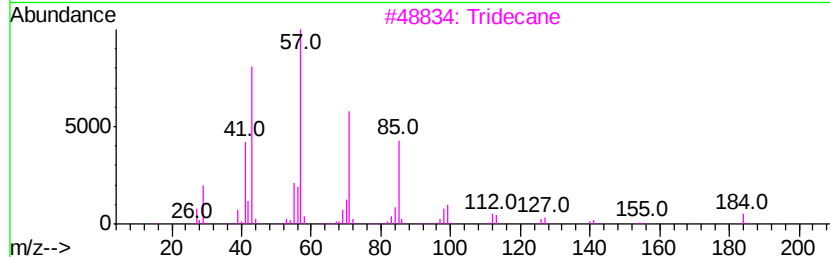
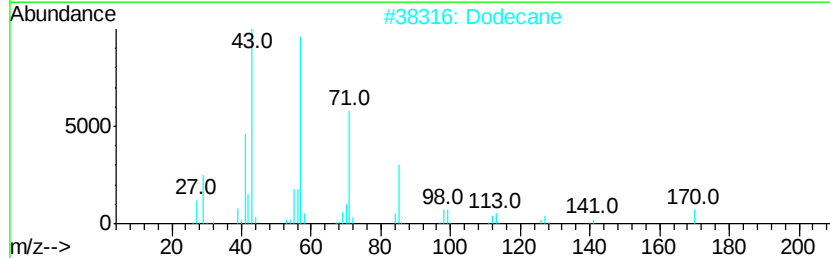
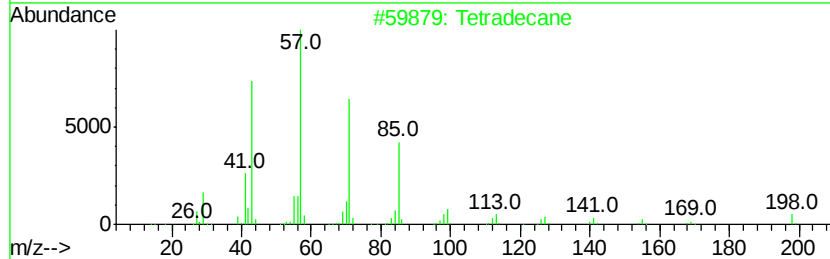
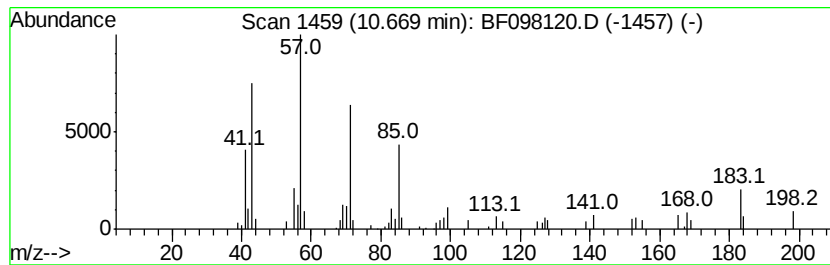
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Tetradecane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.67 | 3.29 ng | 169616 | Phenanthrene-d10 | 11.25 |

| Hit# of | 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------|-----|---------|-------------|------|
| 1       |   | Tetradecane        | 198 | C14H30  | 000629-59-4 | 96   |
| 2       |   | Dodecane           | 170 | C12H26  | 000112-40-3 | 76   |
| 3       |   | Tridecane          | 184 | C13H28  | 000629-50-5 | 76   |
| 4       |   | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 72   |
| 5       |   | Octacosane         | 394 | C28H58  | 000630-02-4 | 68   |



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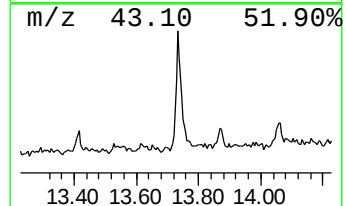
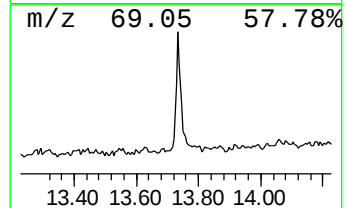
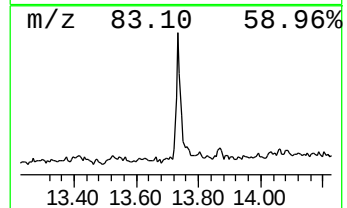
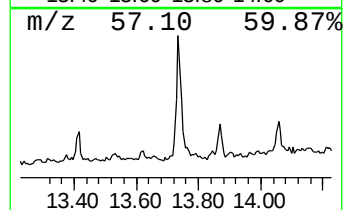
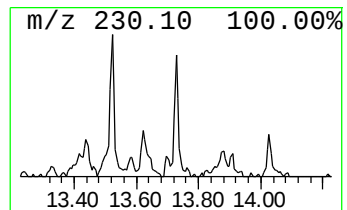
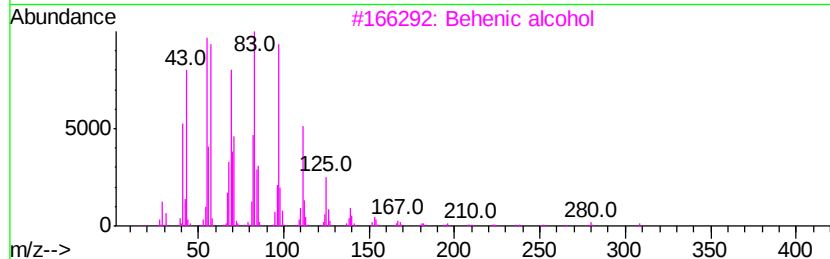
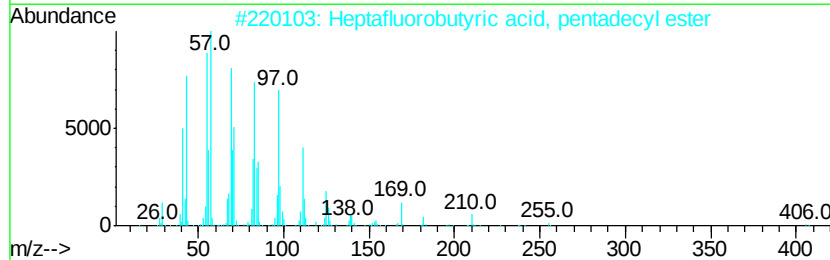
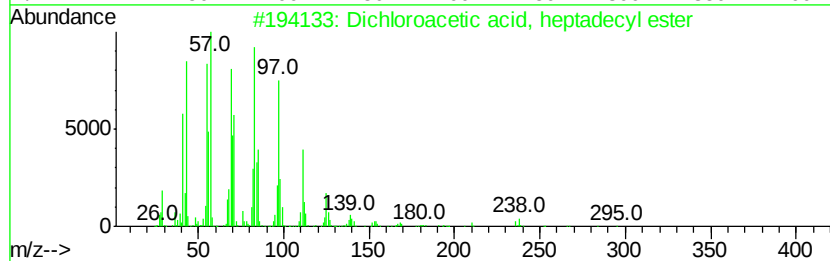
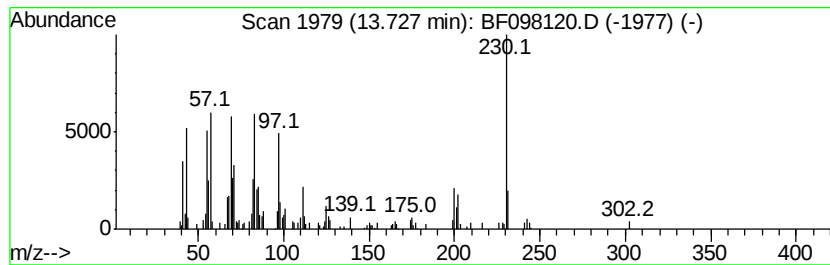
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Dichloroacetic acid, heptad... Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.73 | 3.38 ng | 188813 | Chrysene-d12     | 13.89 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-------------|--------------|------|
| 1       |   | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 93   |
| 2       |   | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2  | 959261-23-5  | 93   |
| 3       |   | Behenic alcohol                     | 326 | C22H46O     | 000661-19-8  | 90   |
| 4       |   | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2  | 959092-08-1  | 90   |
| 5       |   | 1-Heneicosyl formate                | 340 | C22H44O2    | 077899-03-7  | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF082917\  
Data File : BF098120.D  
Acq On : 29 Aug 2017 19:36  
Operator : SJ/JU  
Sample : I4989-07  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
BERGEN-GEN-S3-COMP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

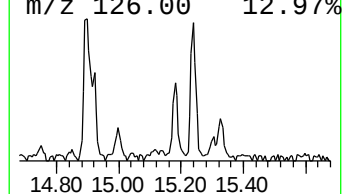
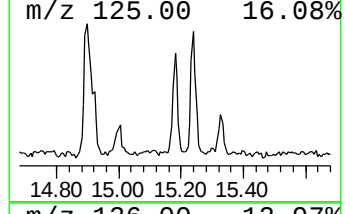
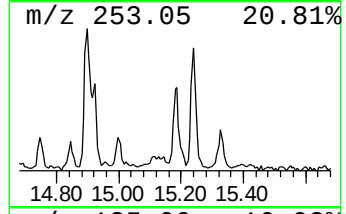
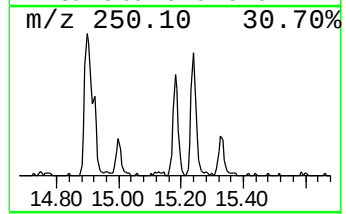
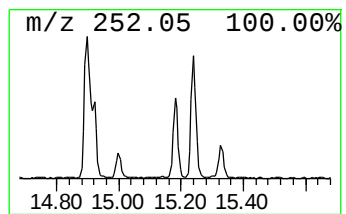
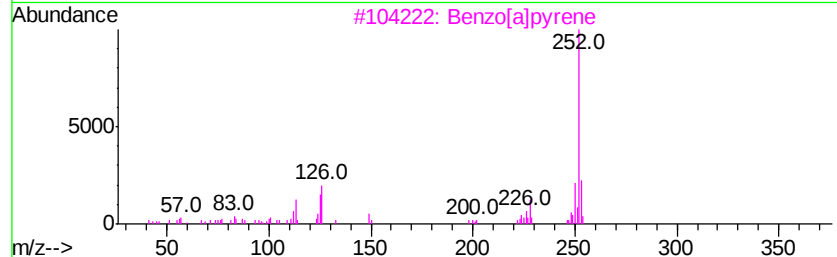
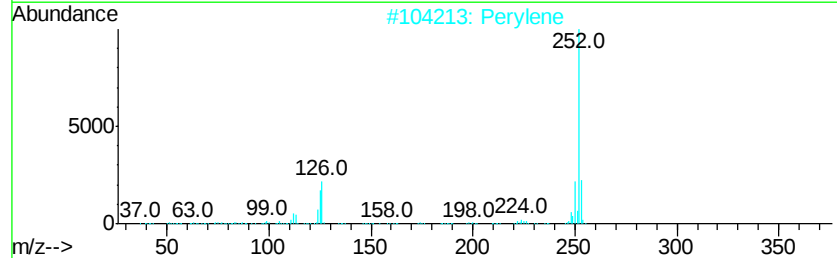
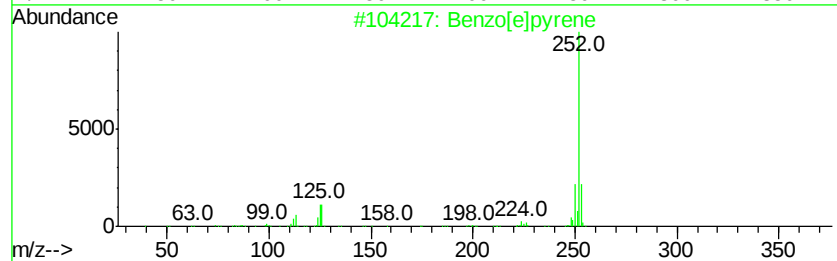
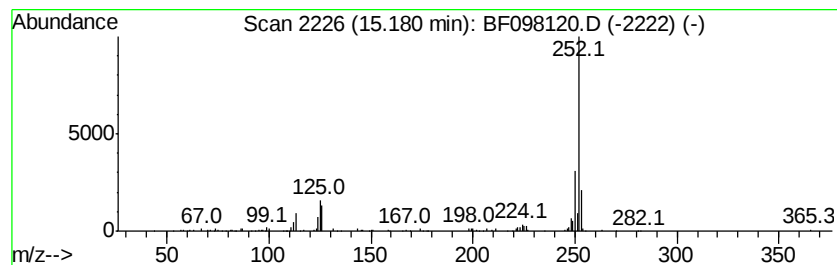
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzo[e]pyrene Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.18 | 3.92 ng | 141214 | Perylene-d12     | 15.30 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 94   |
| 2       |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 93   |
| 3       |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 91   |
| 4       |   | Benzo[i]fluoranthene     | 252 | C20H12  | 000205-82-3 | 91   |
| 5       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF082917\  
Data File : BF098120.D  
Acq On : 29 Aug 2017 19:36  
Operator : SJ/JU  
Sample : I4989-07  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
BERGEN-GEN-S3-COMP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.93  | 7.2     | ng    | 305959   | 1                     | 6.73  | 849921  | 20.0 |
| unknown6.50          | 6.50  | 75.1    | ng    | 3191900  | 1                     | 6.73  | 849921  | 20.0 |
| Tetradecane          | 10.67 | 3.3     | ng    | 169616   | 4                     | 11.25 | 1031790 | 20.0 |
| Dichloroacetic ac... | 13.73 | 3.4     | ng    | 188813   | 5                     | 13.89 | 1118020 | 20.0 |
| Benzo[e]pyrene       | 15.18 | 3.9     | ng    | 141214   | 6                     | 15.30 | 720575  | 20.0 |