

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\  
 Data File : BF115911.D  
 Acq On : 1 Aug 2019 17:28  
 Operator : HP/JU  
 Sample : K4107-03  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-2

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.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         | 3.816       | 278           | 294         | 300          | rBV2     | 11449          | 41756         | 2.09%           | 0.208%        |
| 2         | 5.145       | 509           | 520         | 531          | rVV      | 37267          | 86986         | 4.34%           | 0.433%        |
| 3         | 5.240       | 531           | 536         | 543          | rVB      | 16584          | 27138         | 1.36%           | 0.135%        |
| 4         | 5.469       | 571           | 575         | 591          | rBV      | 1598882        | 1671175       | 83.46%          | 8.328%        |
| 5         | 6.139       | 685           | 689         | 696          | rBV2     | 39416          | 50252         | 2.51%           | 0.250%        |
| 6         | 6.481       | 743           | 747         | 767          | rBV      | 1825998        | 2002353       | 100.00%         | 9.978%        |
| 7         | 6.622       | 767           | 771         | 775          | rBV      | 2160342        | 1821178       | 90.95%          | 9.075%        |
| 8         | 6.851       | 807           | 810         | 820          | rBV      | 955601         | 778806        | 38.89%          | 3.881%        |
| 9         | 7.010       | 833           | 837         | 849          | rBV      | 1405648        | 1265409       | 63.20%          | 6.306%        |
| 10        | 7.269       | 876           | 881         | 892          | rBV      | 32289          | 63298         | 3.16%           | 0.315%        |
| 11        | 7.410       | 901           | 905         | 922          | rBV      | 1252642        | 1106908       | 55.28%          | 5.516%        |
| 12        | 8.133       | 1024          | 1028        | 1044         | rBV      | 1120573        | 994255        | 49.65%          | 4.954%        |
| 13        | 8.281       | 1051          | 1053        | 1061         | rVB      | 25817          | 21986         | 1.10%           | 0.110%        |
| 14        | 9.210       | 1207          | 1211        | 1220         | rBV      | 2121050        | 1699045       | 84.85%          | 8.466%        |
| 15        | 9.328       | 1227          | 1231        | 1234         | rVB      | 18684          | 21298         | 1.06%           | 0.106%        |
| 16        | 9.551       | 1266          | 1269        | 1272         | rVB      | 140807         | 107600        | 5.37%           | 0.536%        |
| 17        | 9.604       | 1273          | 1278        | 1288         | rBV      | 171294         | 168648        | 8.42%           | 0.840%        |
| 18        | 9.869       | 1320          | 1323        | 1324         | rBV      | 43209          | 35876         | 1.79%           | 0.179%        |
| 19        | 9.892       | 1324          | 1327        | 1331         | rVV      | 1294679        | 1087840       | 54.33%          | 5.421%        |
| 20        | 10.016      | 1345          | 1348        | 1351         | rBV      | 41214          | 31042         | 1.55%           | 0.155%        |
| 21        | 10.051      | 1351          | 1354        | 1357         | rVB3     | 21887          | 21361         | 1.07%           | 0.106%        |
| 22        | 10.680      | 1454          | 1461        | 1471         | rBV      | 1166409        | 1159517       | 57.91%          | 5.778%        |
| 23        | 10.798      | 1477          | 1481        | 1488         | rVB3     | 16394          | 22256         | 1.11%           | 0.111%        |
| 24        | 11.380      | 1576          | 1580        | 1587         | rBV      | 1139887        | 1020563       | 50.97%          | 5.086%        |
| 25        | 11.904      | 1666          | 1669        | 1678         | rBV2     | 169980         | 199695        | 9.97%           | 0.995%        |
| 26        | 12.610      | 1784          | 1789        | 1799         | rBV5     | 17647          | 46877         | 2.34%           | 0.234%        |
| 27        | 12.692      | 1799          | 1803        | 1809         | rBV3     | 26357          | 42580         | 2.13%           | 0.212%        |
| 28        | 12.963      | 1845          | 1849        | 1852         | rBV      | 1554751        | 1374379       | 68.64%          | 6.849%        |
| 29        | 13.810      | 1989          | 1993        | 1996         | rBV      | 24674          | 29418         | 1.47%           | 0.147%        |
| 30        | 13.851      | 1996          | 2000        | 2001         | rBV      | 32858          | 36323         | 1.81%           | 0.181%        |
| 31        | 13.880      | 2001          | 2005        | 2013         | rVB      | 138508         | 222840        | 11.13%          | 1.110%        |
| 32        | 14.021      | 2025          | 2029        | 2039         | rVB      | 843734         | 798319        | 39.87%          | 3.978%        |
| 33        | 14.174      | 2051          | 2055        | 2058         | rBV      | 18005          | 22418         | 1.12%           | 0.112%        |
| 34        | 14.480      | 2105          | 2107        | 2110         | rBV      | 46508          | 40927         | 2.04%           | 0.204%        |

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Sample : K4107-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
T-2

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 14.521 | 2110 | 2114 | 2125 | rVV7 | 23916  | 57121   | 2.85%  | 0.285% |
| 36 | 14.768 | 2152 | 2156 | 2158 | rBV  | 88067  | 100280  | 5.01%  | 0.500% |
| 37 | 14.786 | 2158 | 2159 | 2165 | rVV  | 68407  | 56185   | 2.81%  | 0.280% |
| 38 | 14.862 | 2169 | 2172 | 2177 | rVB  | 27314  | 29280   | 1.46%  | 0.146% |
| 39 | 15.127 | 2212 | 2217 | 2221 | rBV  | 135880 | 160648  | 8.02%  | 0.801% |
| 40 | 15.492 | 2273 | 2279 | 2291 | rBV  | 741347 | 1003964 | 50.14% | 5.003% |
| 41 | 15.704 | 2311 | 2315 | 2322 | rVB2 | 44073  | 59133   | 2.95%  | 0.295% |
| 42 | 15.939 | 2350 | 2355 | 2360 | rBV  | 133989 | 191226  | 9.55%  | 0.953% |
| 43 | 16.445 | 2436 | 2441 | 2448 | rVB2 | 44540  | 80224   | 4.01%  | 0.400% |
| 44 | 16.733 | 2486 | 2490 | 2499 | rVB7 | 24697  | 48671   | 2.43%  | 0.243% |
| 45 | 17.033 | 2537 | 2541 | 2550 | rVB  | 34826  | 69885   | 3.49%  | 0.348% |
| 46 | 17.586 | 2629 | 2635 | 2649 | rVB  | 23971  | 91085   | 4.55%  | 0.454% |

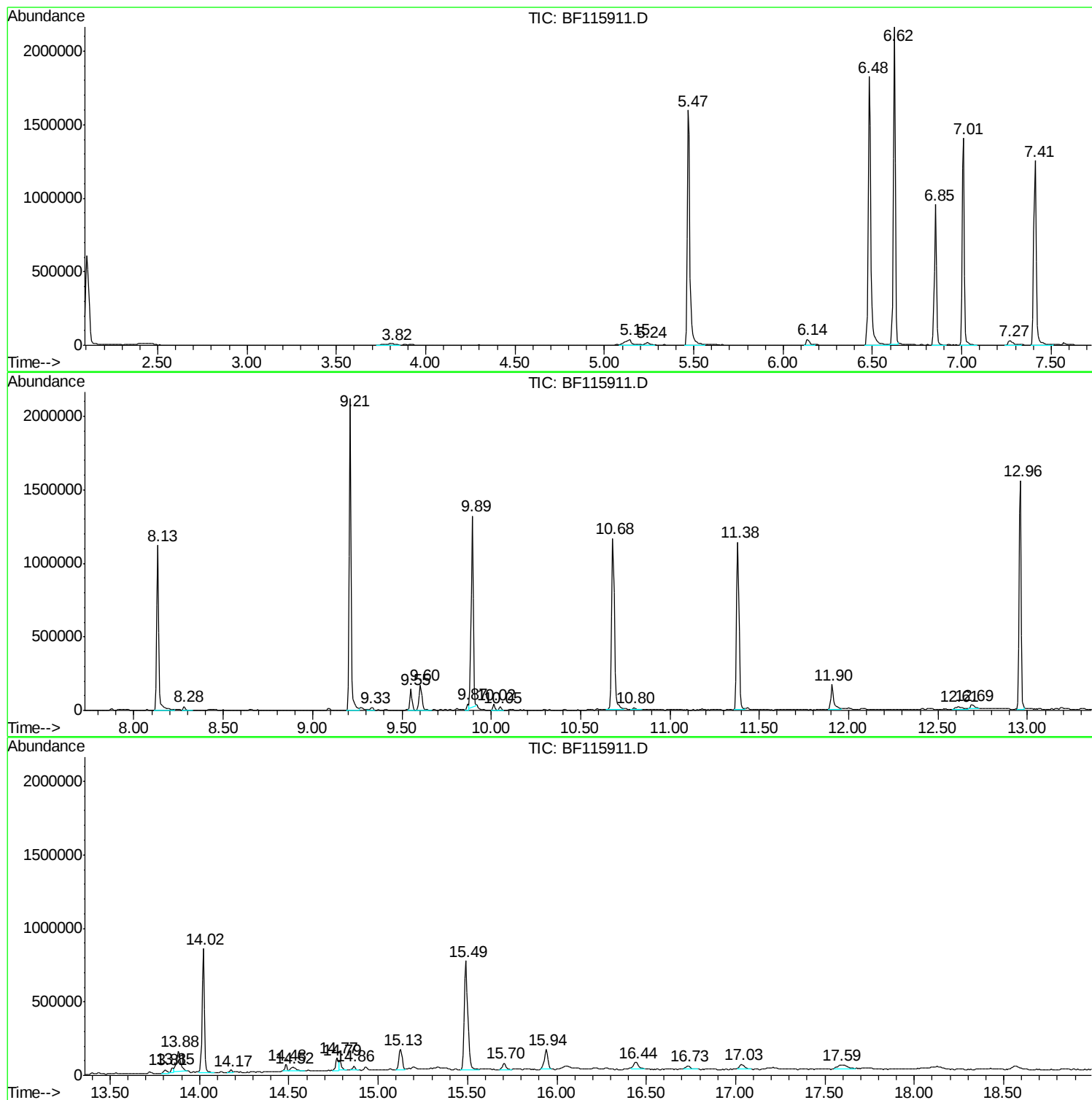
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ClientSampled :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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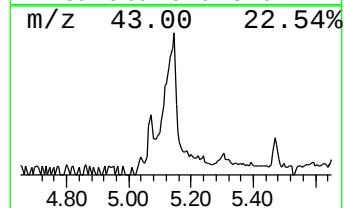
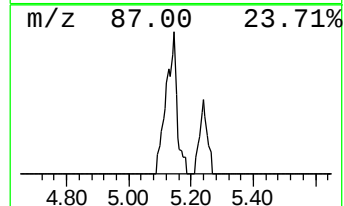
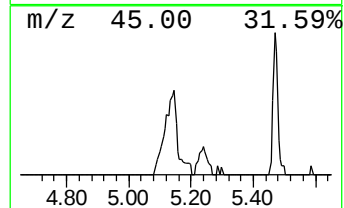
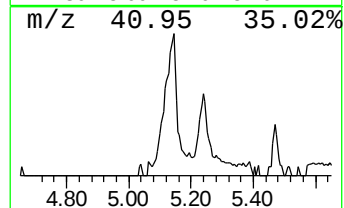
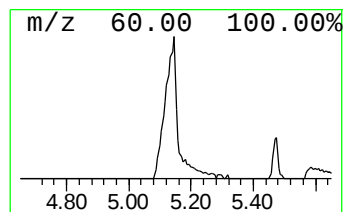
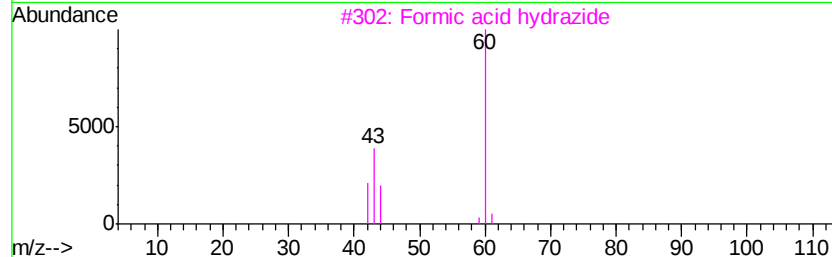
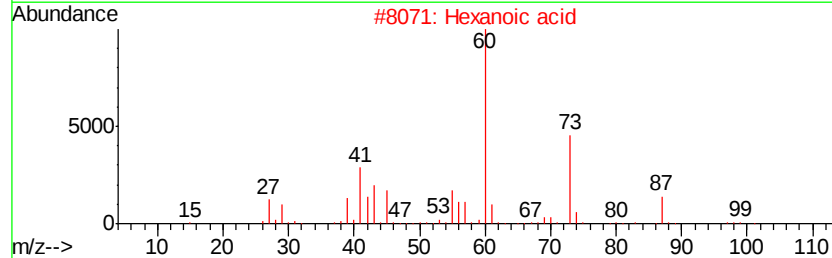
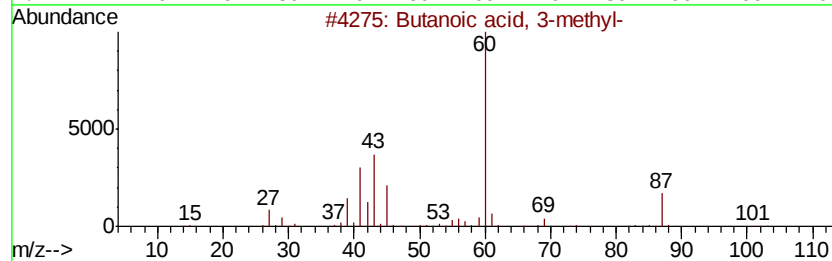
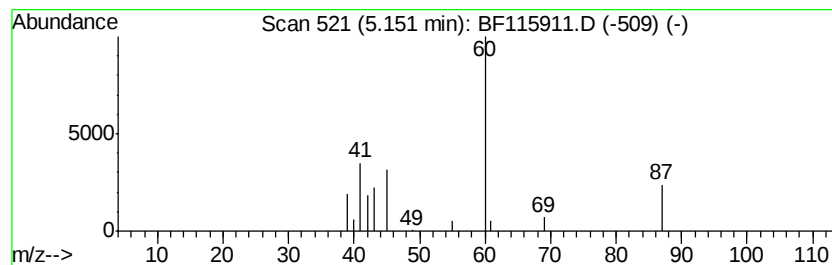
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Butanoic acid, 3-methyl- Concentration Rank 7

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.15 | 2.23 ng | 86986 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 83   |
| 2    |    |   | Hexanoic acid            | 116 | C6H12O2 | 000142-62-1 | 40   |
| 3    |    |   | Formic acid hydrazide    | 60  | CH4N2O  | 000624-84-0 | 38   |
| 4    |    |   | Hydrazine, 1,1-dimethyl- | 60  | C2H8N2  | 000057-14-7 | 9    |
| 5    |    |   | 1-Pentanamine            | 87  | C5H13N  | 000110-58-7 | 9    |



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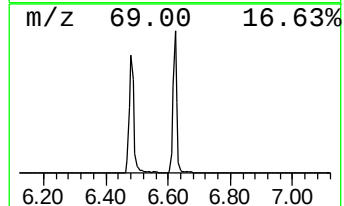
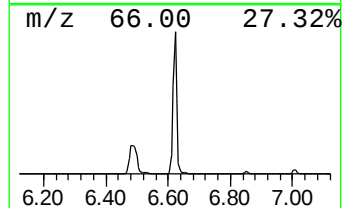
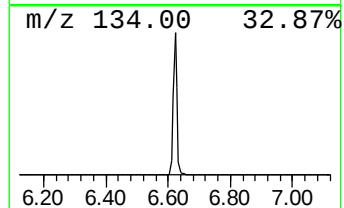
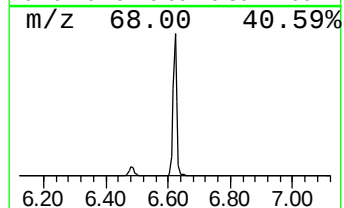
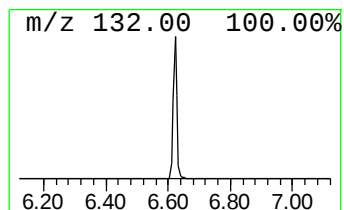
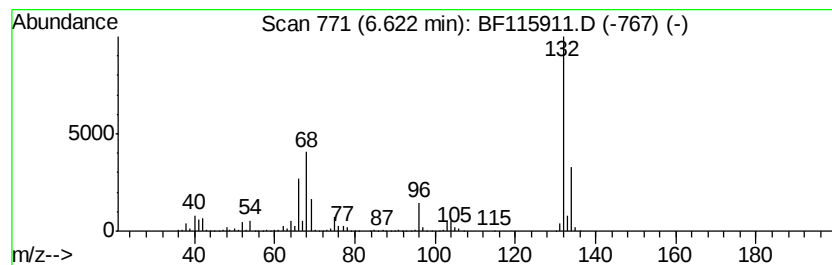
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.62 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.62 | 46.77 ng | 1821180 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | Benzene, 1-ethenyl-3,5-dimethyl-    | 132 | C10H12    | 005379-20-4  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
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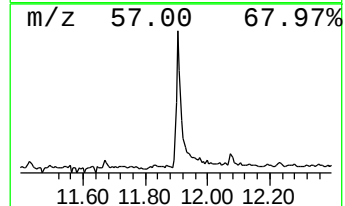
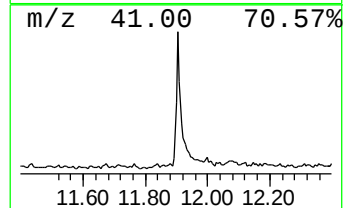
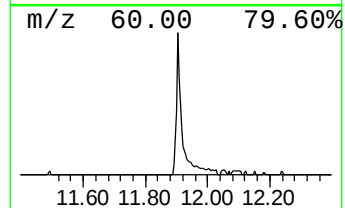
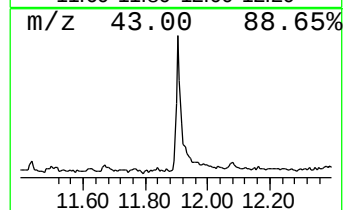
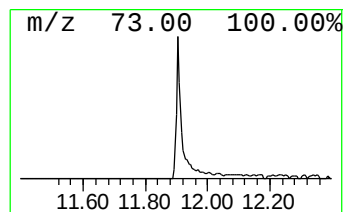
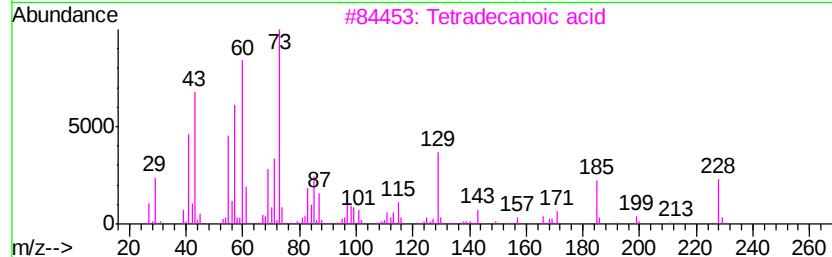
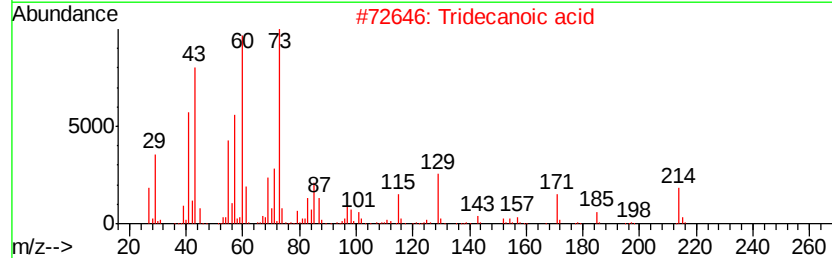
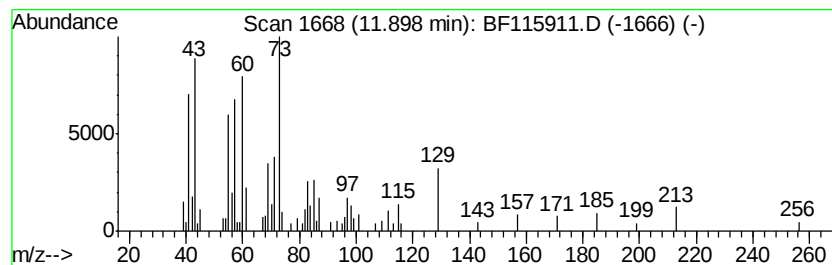
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.90 | 3.91 ng | 199695 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3  | 98   |
| 2    |    | Tridecanoic acid                    | 214 | C13H26O2 | 000638-53-9  | 87   |
| 3    |    | Tetradecanoic acid                  | 228 | C14H28O2 | 000544-63-8  | 80   |
| 4    |    | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2  | 74   |
| 5    |    | Oxalic acid, dodecyl isobutyl ester | 314 | C18H34O4 | 1000309-37-7 | 25   |



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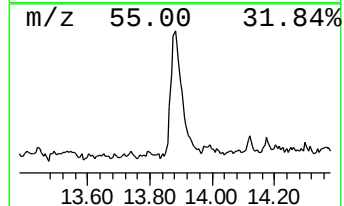
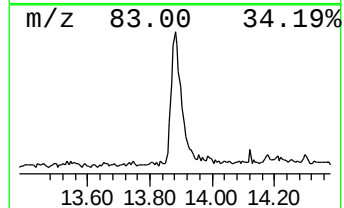
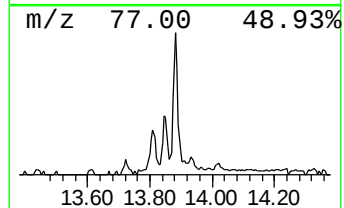
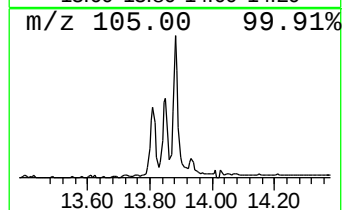
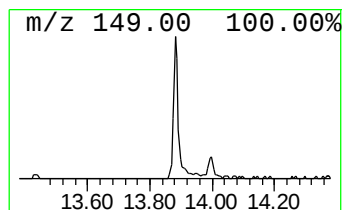
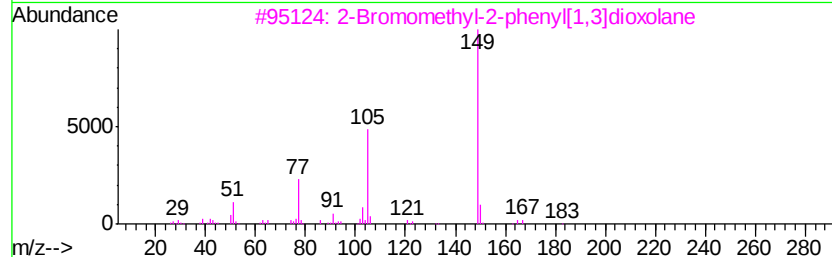
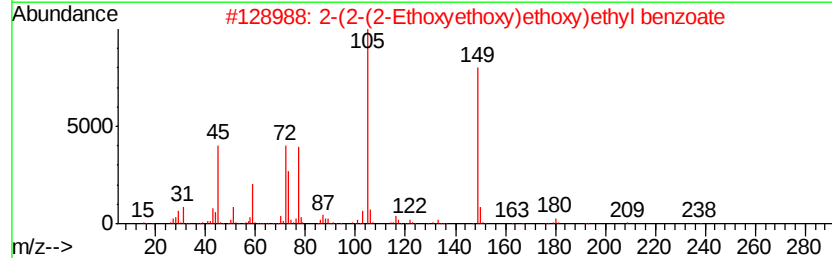
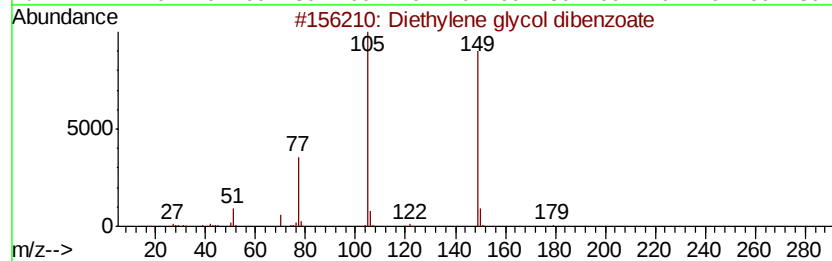
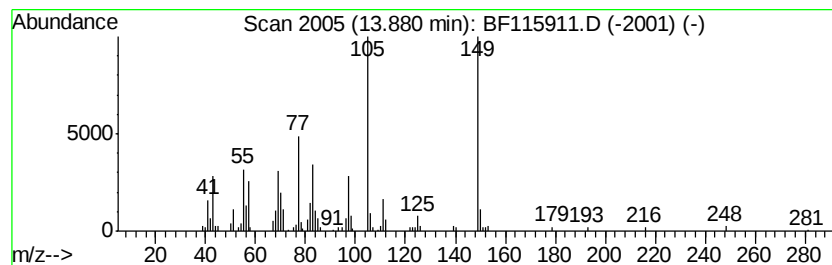
Instrument :  
BNA\_F  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Diethylene glycol dibenzoate Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.88     | 5.58 ng                             | 222840 | Chrysene-d12     | 14.02        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Diethylene glycol dibenzoate        | 314    | C18H18O5         | 000120-55-8  | 50   |
| 2         | 2-(2-(2-Ethoxyethoxy)ethoxy)ethy... | 282    | C15H22O5         | 1000366-98-8 | 50   |
| 3         | 2-Bromomethyl-2-phenyl[1,3]dioxo... | 242    | C10H11BrO2       | 003418-21-1  | 38   |
| 4         | Phthalic acid, hexyl tetradecyl ... | 446    | C28H46O4         | 1000308-91-4 | 35   |
| 5         | Phthalic acid, 3-fluorophenyl he... | 484    | C30H41FO4        | 1000356-66-4 | 27   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

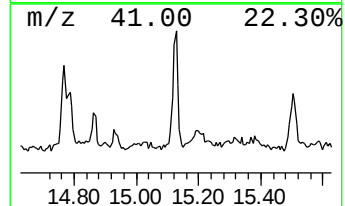
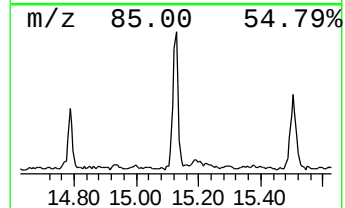
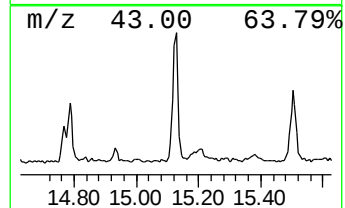
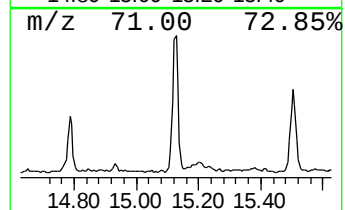
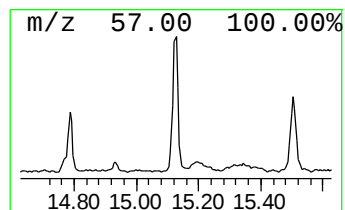
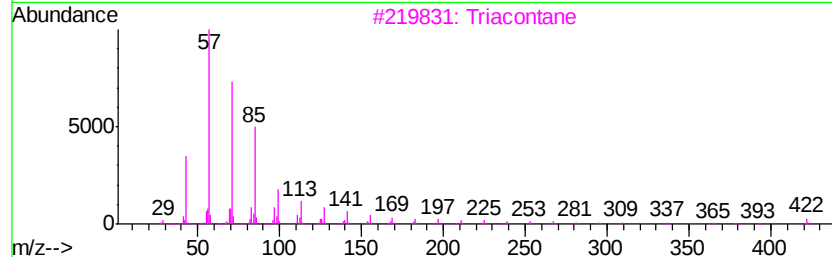
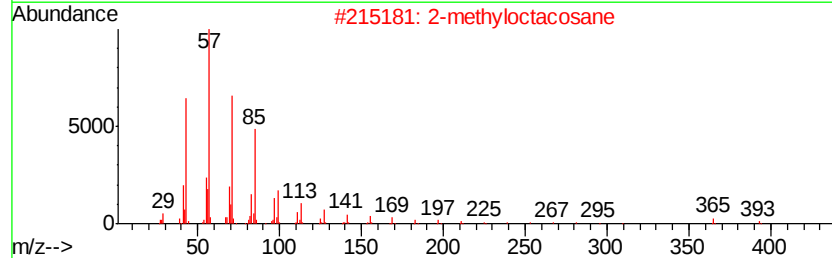
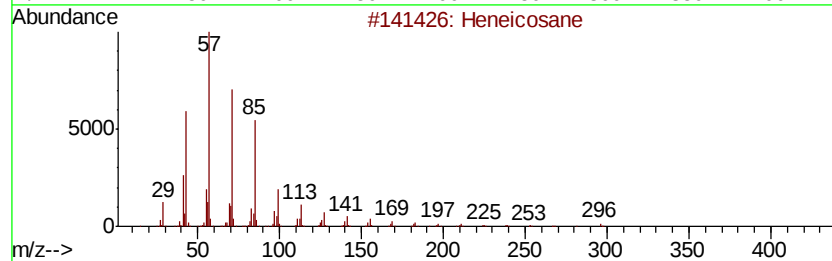
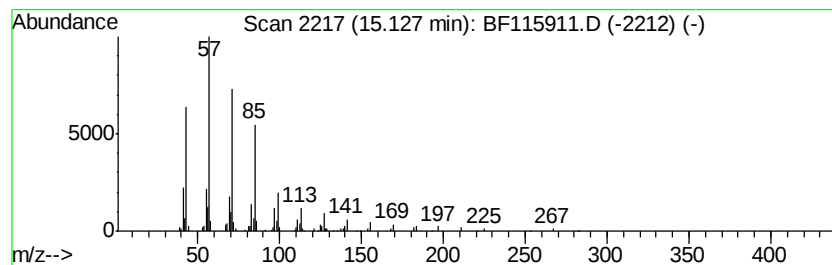
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 6 Heneicosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.13 | 3.20 ng | 160648 | Perylene-d12     | 15.49 |

| Hit# of | 5                   | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|---------------------|--------------|-----|---------|--------------|------|
| 1       | Heneicosane         |              | 296 | C21H44  | 000629-94-7  | 91   |
| 2       | 2-methyloctacosane  |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 3       | triacontane         |              | 422 | C30H62  | 000638-68-6  | 91   |
| 4       | Hexadecane, 1-iodo- |              | 352 | C16H33I | 000544-77-4  | 91   |
| 5       | Eicosane            |              | 282 | C20H42  | 000112-95-8  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\  
Data File : BF115911.D  
Acq On : 1 Aug 2019 17:28  
Operator : HP/JU  
Sample : K4107-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
T-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

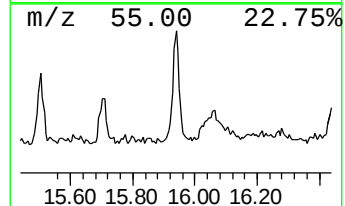
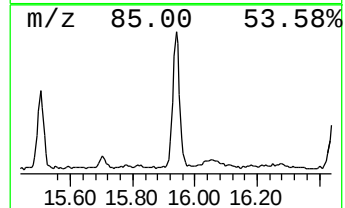
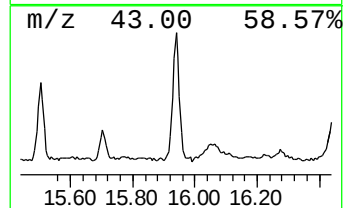
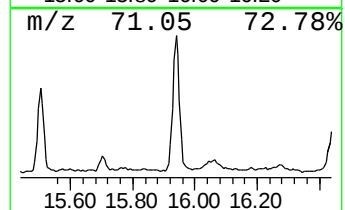
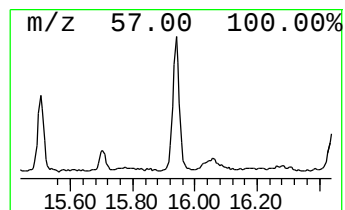
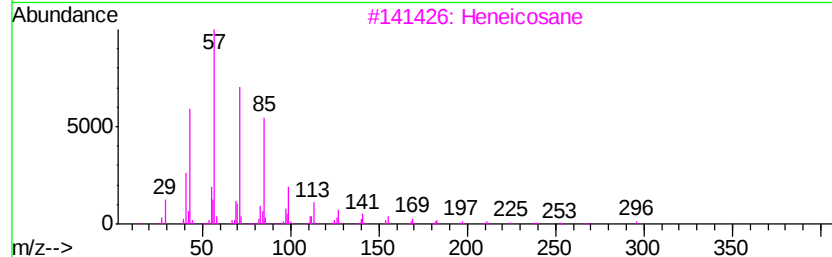
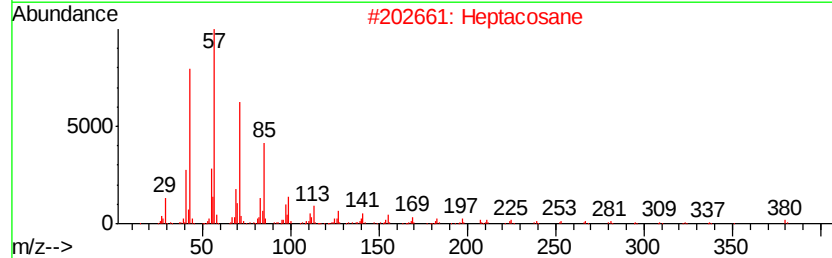
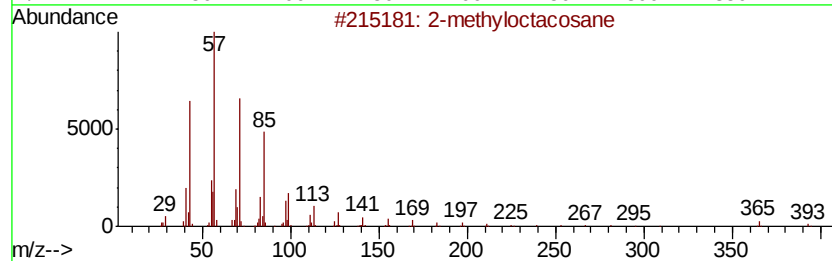
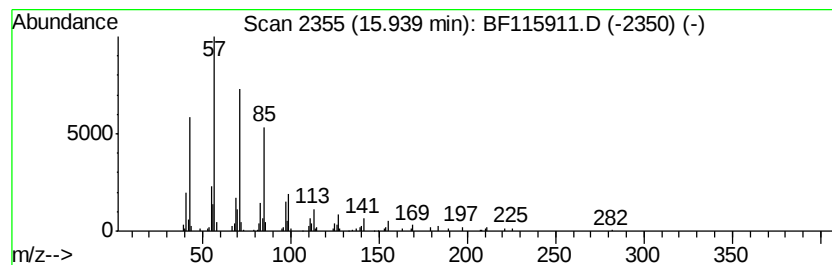
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 2-methyloctacosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.94 | 3.81 ng | 191226 | Perylene-d12     | 15.49 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    | Heptacosane           | 380 | C27H56  | 000593-49-7  | 91   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7  | 91   |
| 4    |    | triacontane           | 422 | C30H62  | 000638-68-6  | 91   |
| 5    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF080119\  
Data File : BF115911.D  
Acq On : 1 Aug 2019 17:28  
Operator : HP/JU  
Sample : K4107-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
T-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.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 |
| Butanoic acid, 3-... | 5.15  | 2.2     | ng    | 86986    | 1                     | 6.85  | 778806  | 20.0 |
| unknown6.62          | 6.62  | 46.8    | ng    | 1821180  | 1                     | 6.85  | 778806  | 20.0 |
| n-Hexadecanoic acid  | 11.90 | 3.9     | ng    | 199695   | 4                     | 11.38 | 1020560 | 20.0 |
| Diethylene glycol... | 13.88 | 5.6     | ng    | 222840   | 5                     | 14.02 | 798319  | 20.0 |
| Heneicosane          | 15.13 | 3.2     | ng    | 160648   | 6                     | 15.49 | 1003960 | 20.0 |
| 2-methyloctacosane   | 15.94 | 3.8     | ng    | 191226   | 6                     | 15.49 | 1003960 | 20.0 |