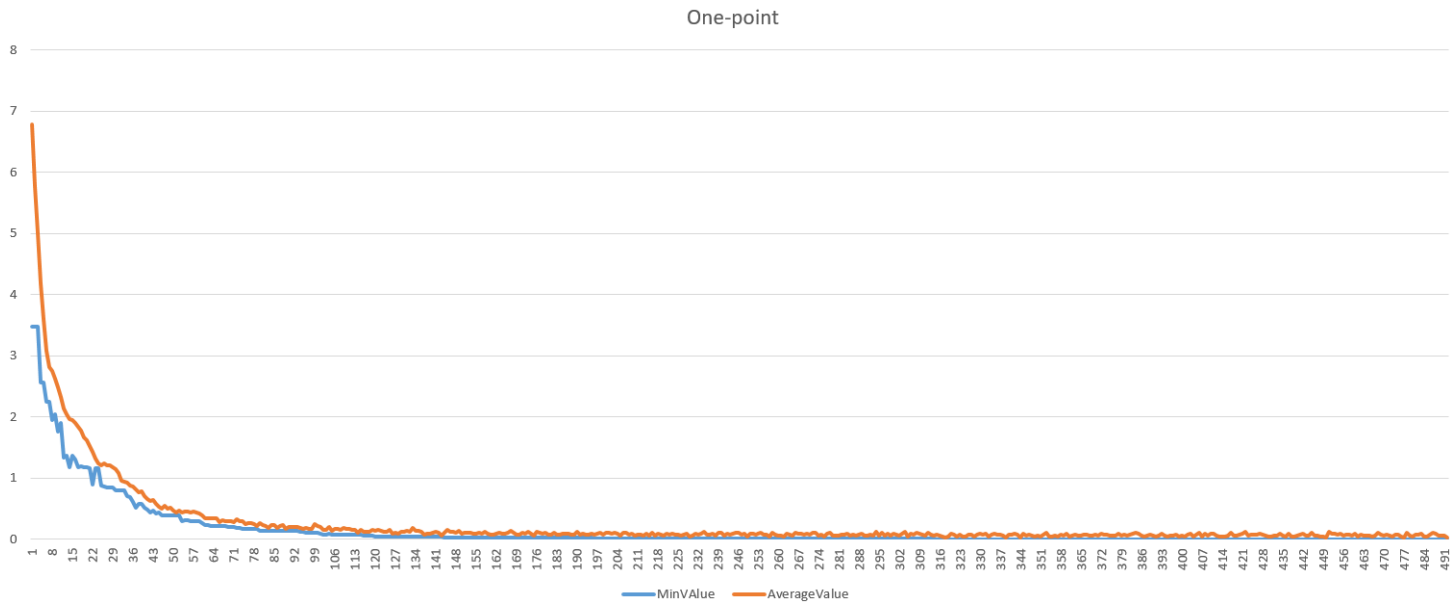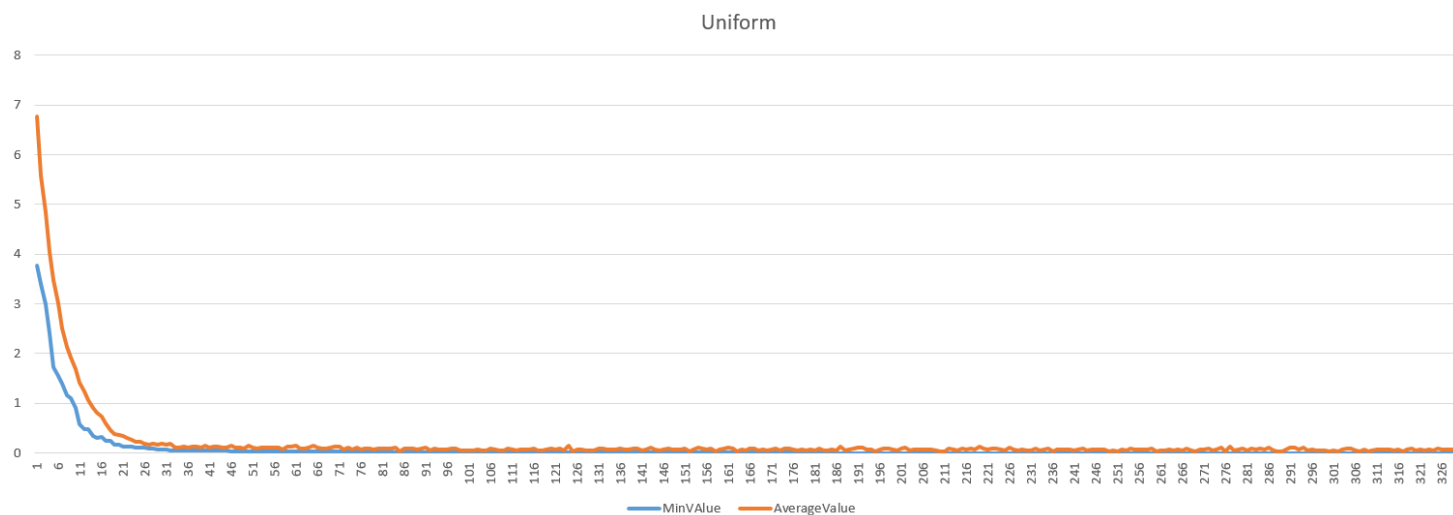1) Minimization $y=(x1)^2+(x2)^2+(x3)^2+(x4)^2+...i=(x20)^2$ [-1.1]
   a) Size of population – 100;
      Size of chromosome – 20;
      Mutation percent – 0.01;
      One-point crossover with crossover point at 10;
      Truncate selection mode;
      Graphic:

One-point

b) Size of population – 100;
   Size of chromosome – 20;
   Mutation percent – 0.01;
   Uniform crossover;
   Truncate selection mode;
   Graphic:

Uniform

2) Minimization y=3+x^2+3*cos(2*pi*x) [-1,1]
  a) Size of population – 10;
     Size of chromosome – 20;
     Mutation percent – 0.01;
     One-point crossover with crossover point at 5;
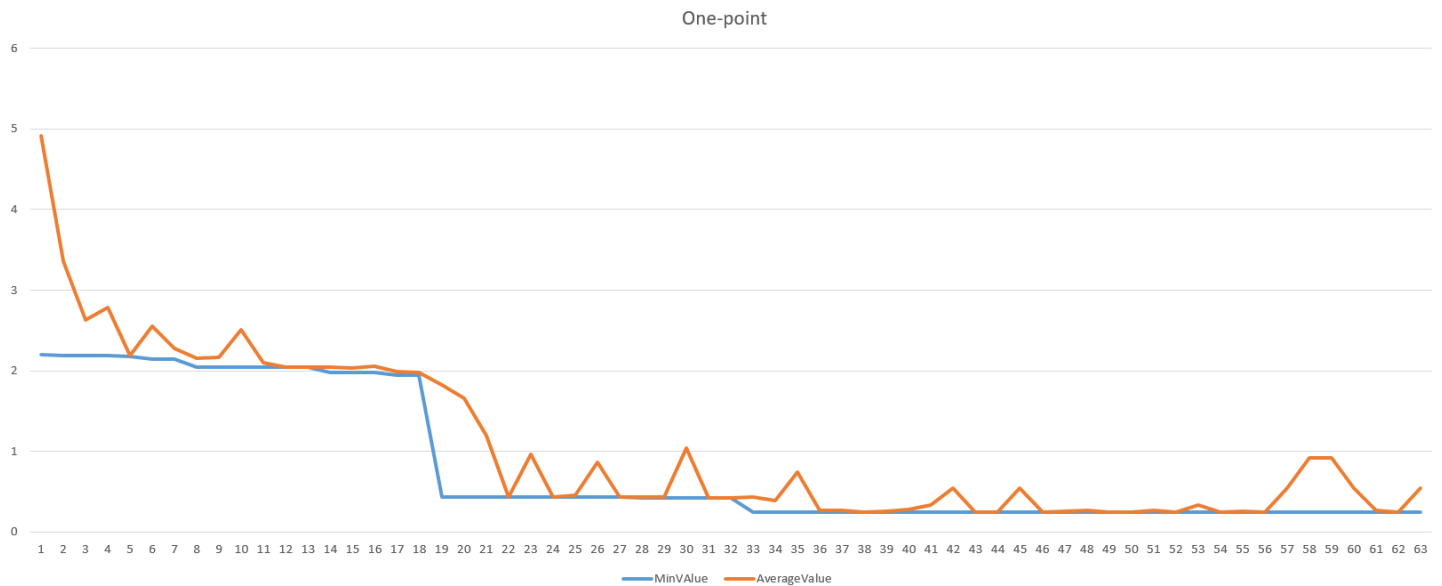   Truncate selection mode;
     Graphic:

One-point

  b) Size of population – 8;
     Size of chromosome – 20;
     Mutation percent – 0.01;
     Uniform crossover;
     Truncate selection mode;
     Graphic:

Uniform