(1)

As the value of N increases the width of the main labe is decreasing

The phase oscillates between &-TI, Ty

and as he magnitude plot is symmetric we article

can observe say that the phase is linear

which can also be observed from it's

plots

Rectongular (in samples) in frey only subject thanming 39 0.49 radisect than 38 0.49 radisect than 39 0.49 radisect than 39 0.50 radisect than 39 0.50 radisect than 38 0.72 radisect than 38 0.72 radisect than 58 0.72 rad

The values are very close to the values in the We notice that the difference in the heights of yeaks of is nearly the same for all N(ieN=51, 75,101) for D'ifference in heights of peaks N 13.19 51 75 13.69 13.3 101