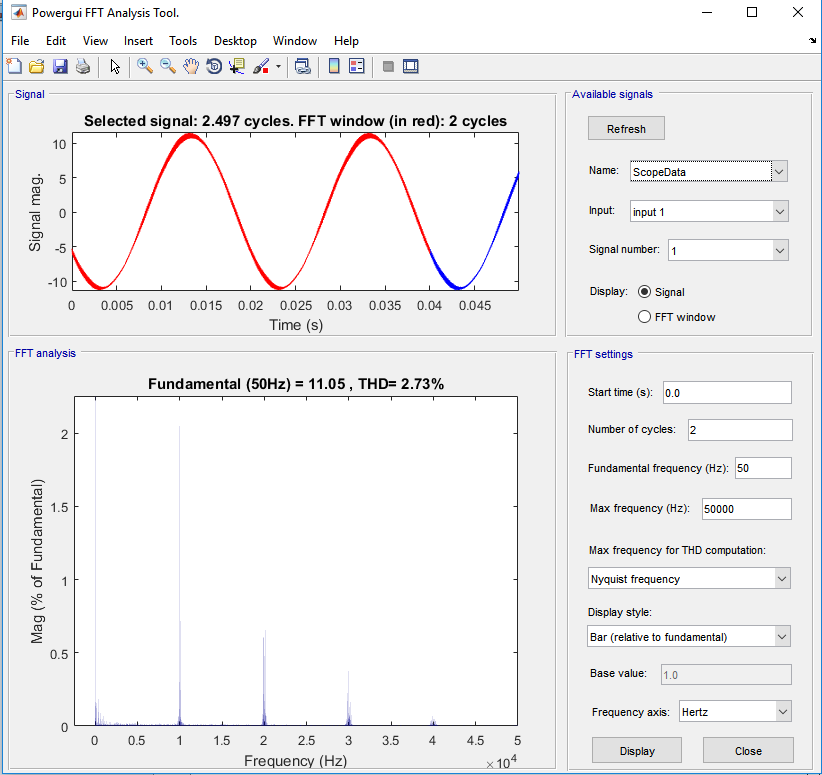
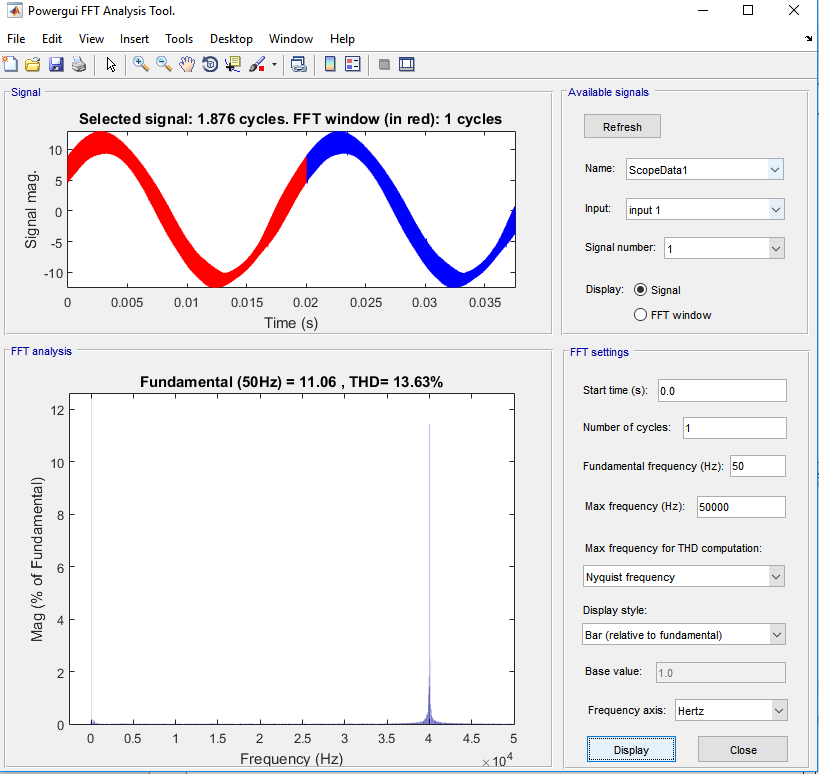
**Measured current at 10kHz (Ts = 500ns):**



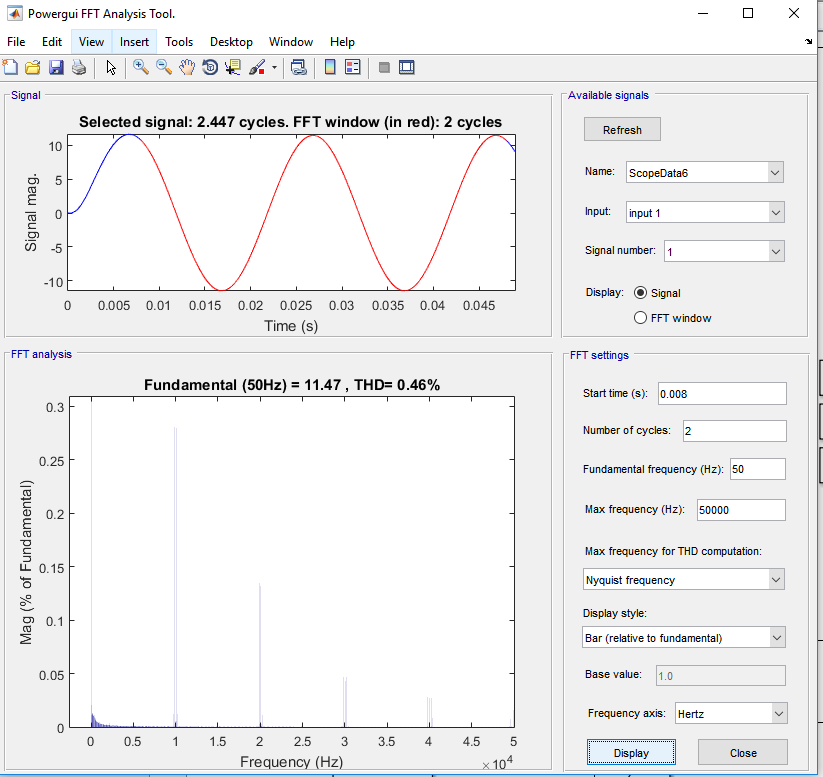
**Measured current at 40kHz (Ts = 200ns)**



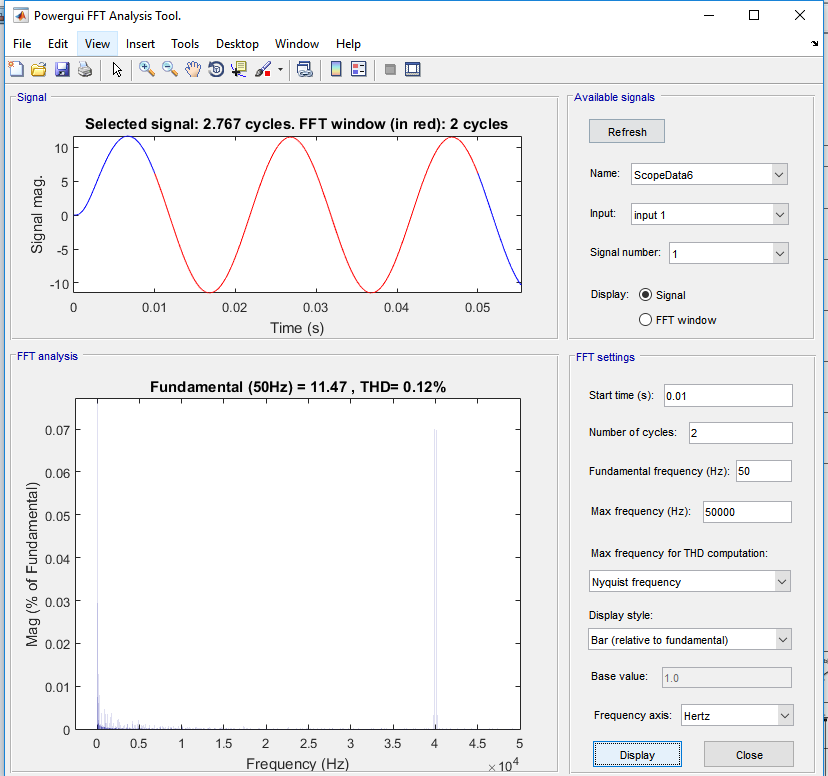
**Downsampling:**



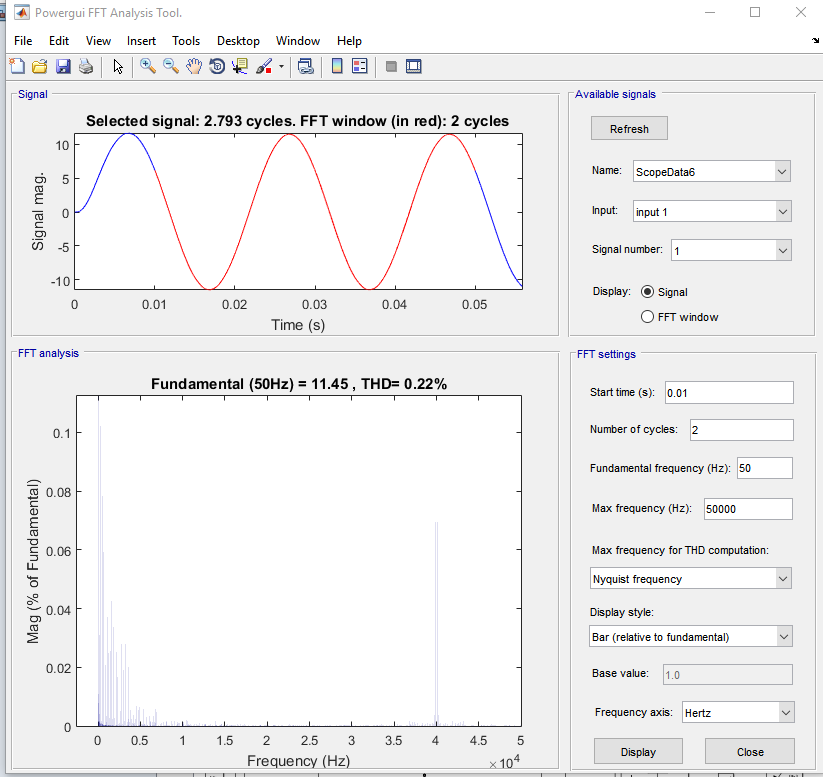
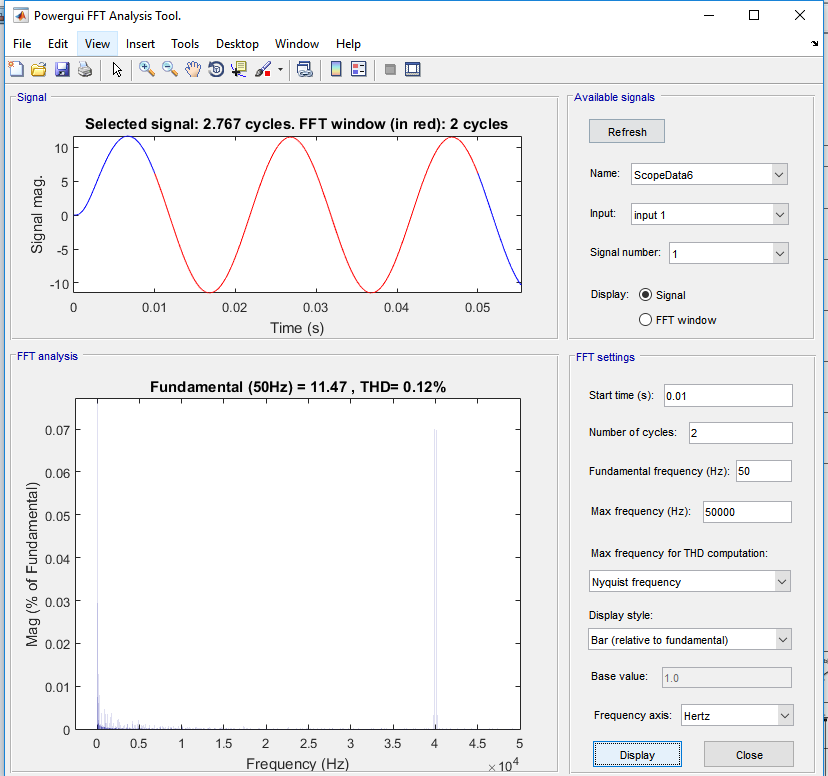
**10kHz simulation (Ts = 100ns):**



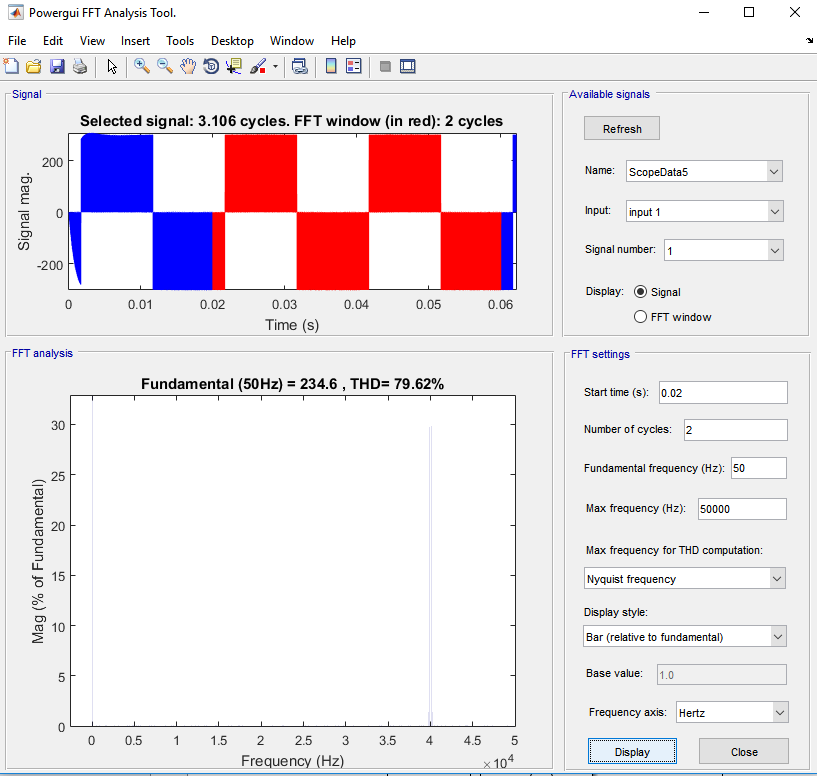
**40kHz simulation (Ts = 100ns):**



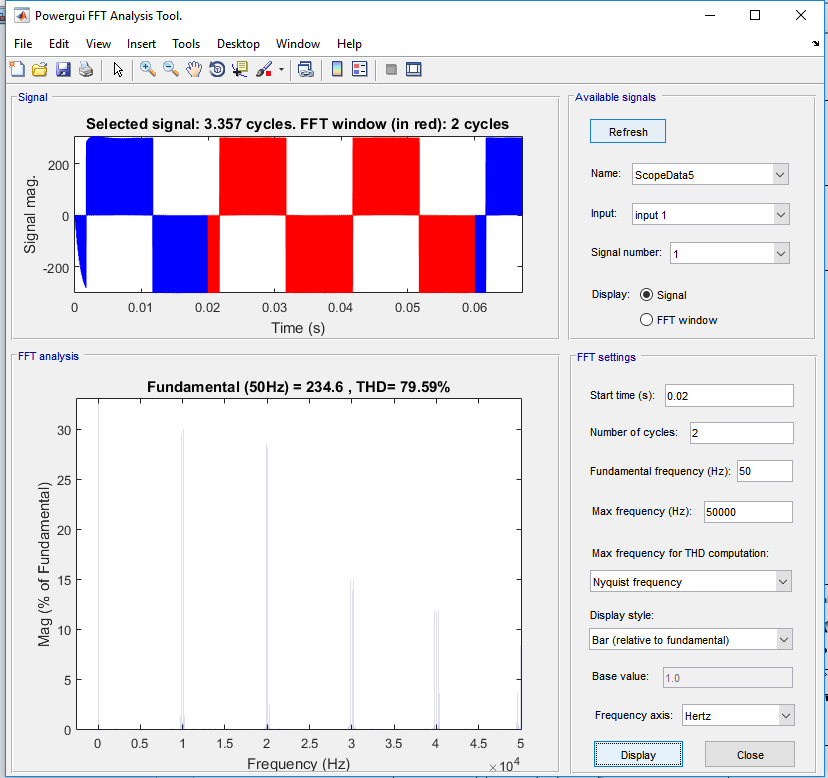
**Sampling rate effect on harmonics (Ts = 100ns** *vs* **Ts = 500ns):**



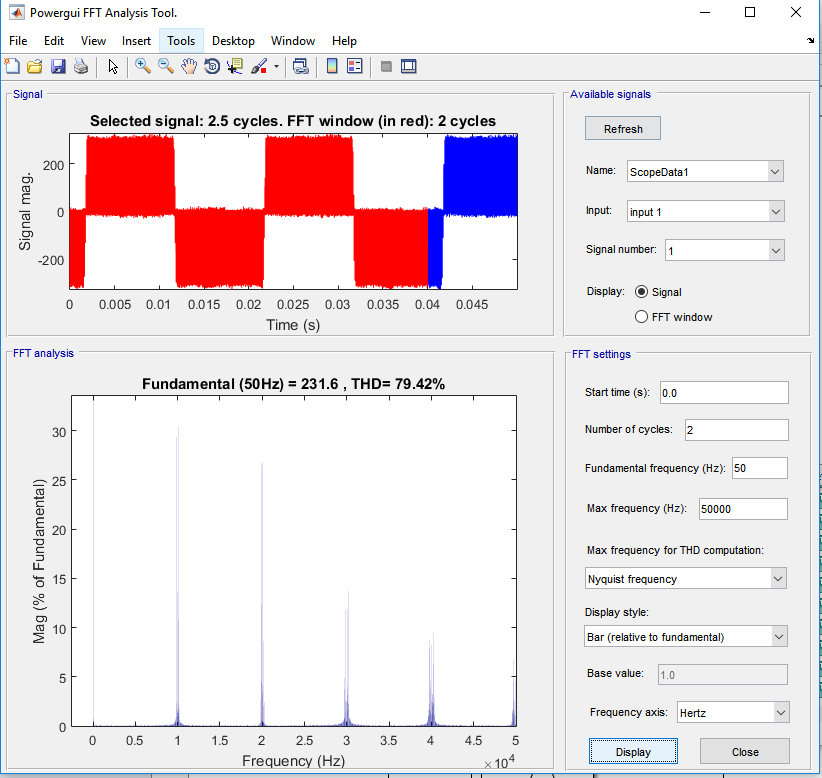
**Line-to-line voltage analysis - 40kHz, Ts = 100ns - Simulation**



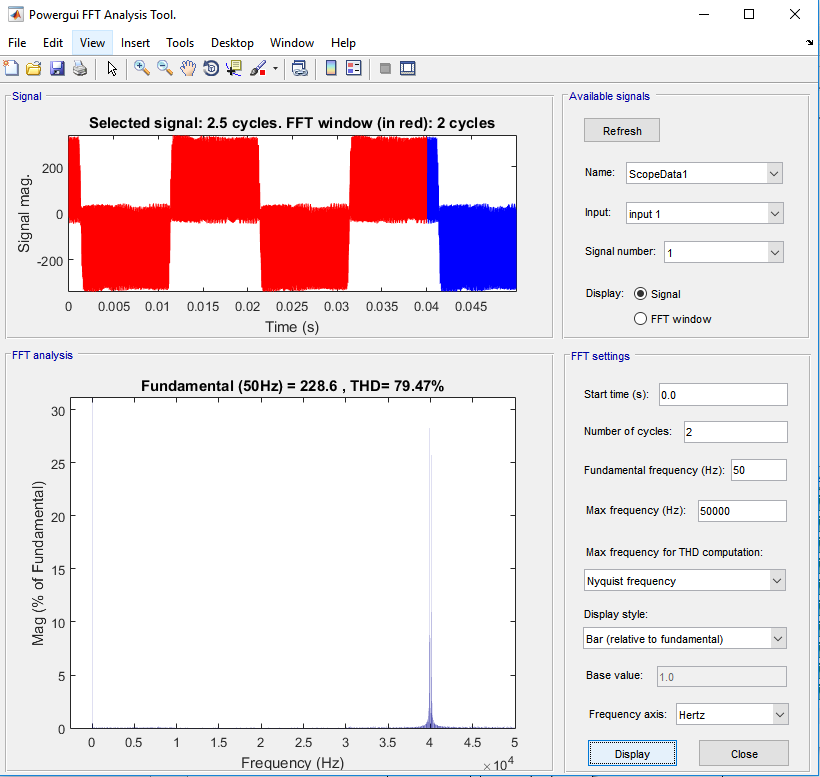
**Line-to-line voltage analysis - 10kHz, Ts = 100ns - Simulation**



**Line-to-line voltage analysis - 10kHz, Ts = 500ns - Experiment**



**Line-to-line voltage analysis - 40kHz, Ts = 200ns - Experiment**



**Comparison:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **fsw** | **Vll-rms** | **Vll-THD** | **Is-rms** | **Is-THD** |
| **Simulation** | 10kHz | 165,9 | 79,59% | 8,11 A | 0,46% |
| 40kHz | 165,9 | 79,62% | 8,11 A | 0,12% |
| **Experiment** | 10kHz | 163,8 | 79,42% | 7,81 A | 2.73% |
| 40kHz | 161,7 | 79,47% | 7,82 A | 13.63% |