Appendix A

RF Test Data for BT 4.0(BLE) (Conducted Measurement)

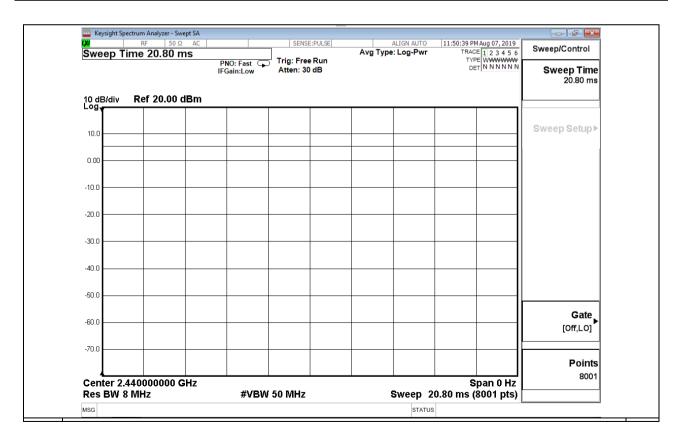
Product Name: BLE Module Trade Mark: WiSilica Test Model: WIM1280E

Environmental Conditions

| Temperature: | 23.6 ° C |
|--------------------|-------------|
| Relative Humidity: | 57% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | CHUANG WANG |
| Supervised by: | JAYDEN ZHUO |

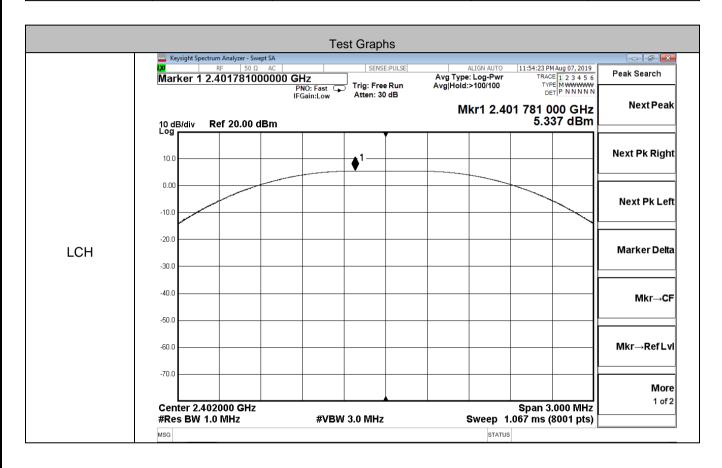
A.1 Duty Cycle

| Test Mode | Test Channel | Ant | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| BT LE | 2440 | Ant1 | 100 | PASS |



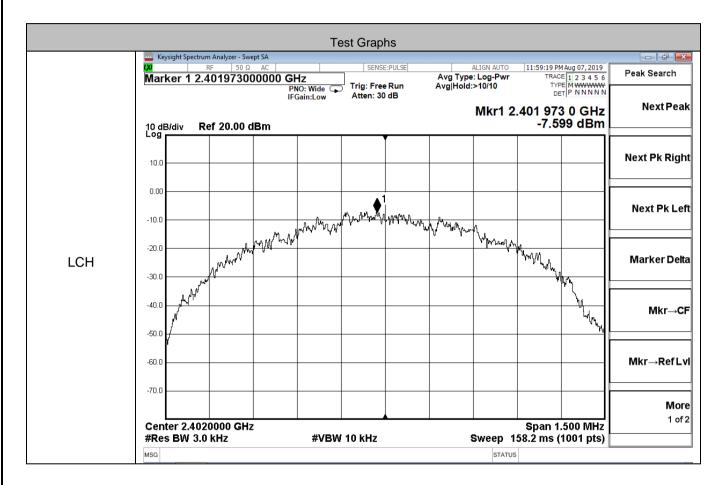
A.2 Maximum Conducted Peak Output Power

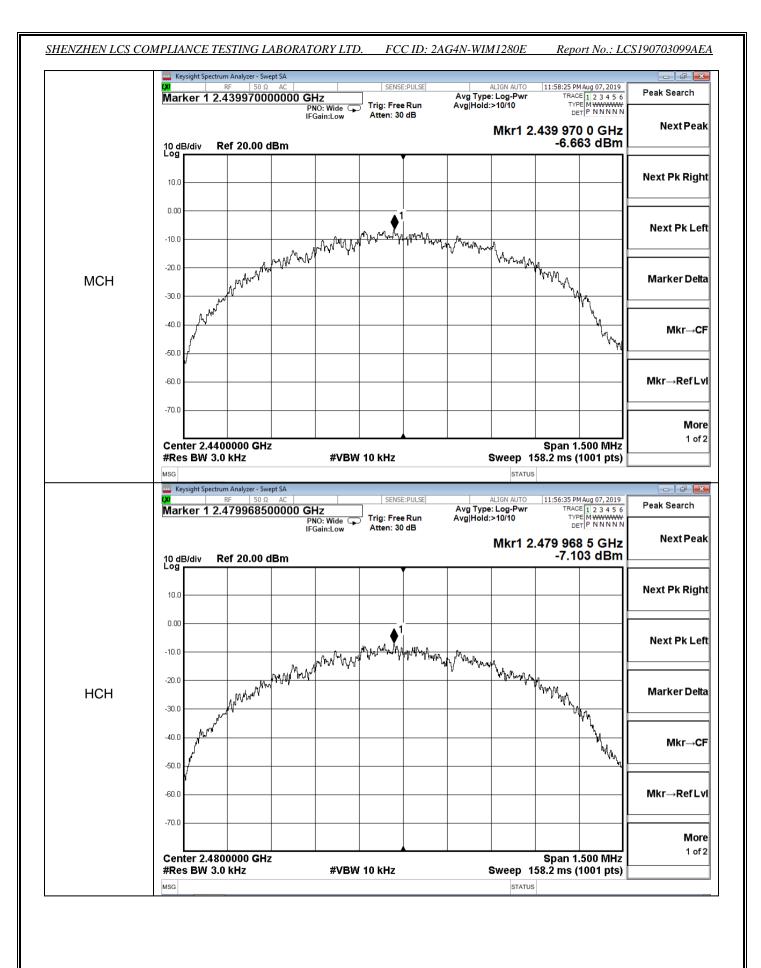
| Mode | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH | 5.337 | 30 | PASS |
| BT LE | MCH | 5.341 | 30 | PASS |
| BT LE | HCH | 4.950 | 30 | PASS |



A.3 Maximum Power Spectral Density

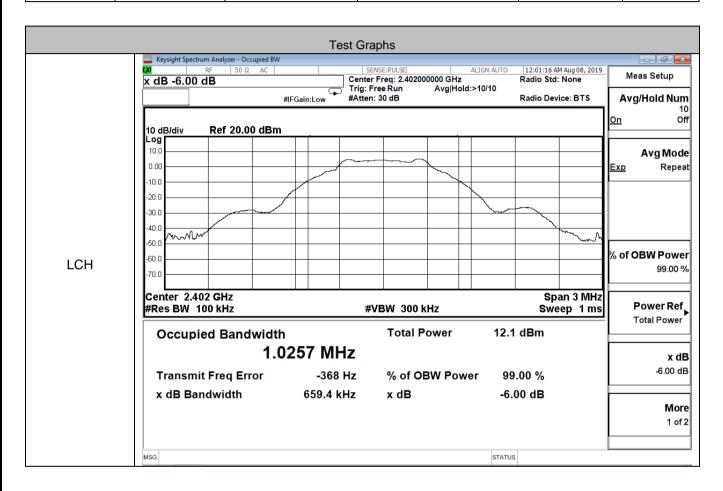
| Mode | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH | -7.599 | 8 | PASS |
| BT LE | MCH | -6.663 | 8 | PASS |
| BT LE | HCH | -7.103 | 8 | PASS |





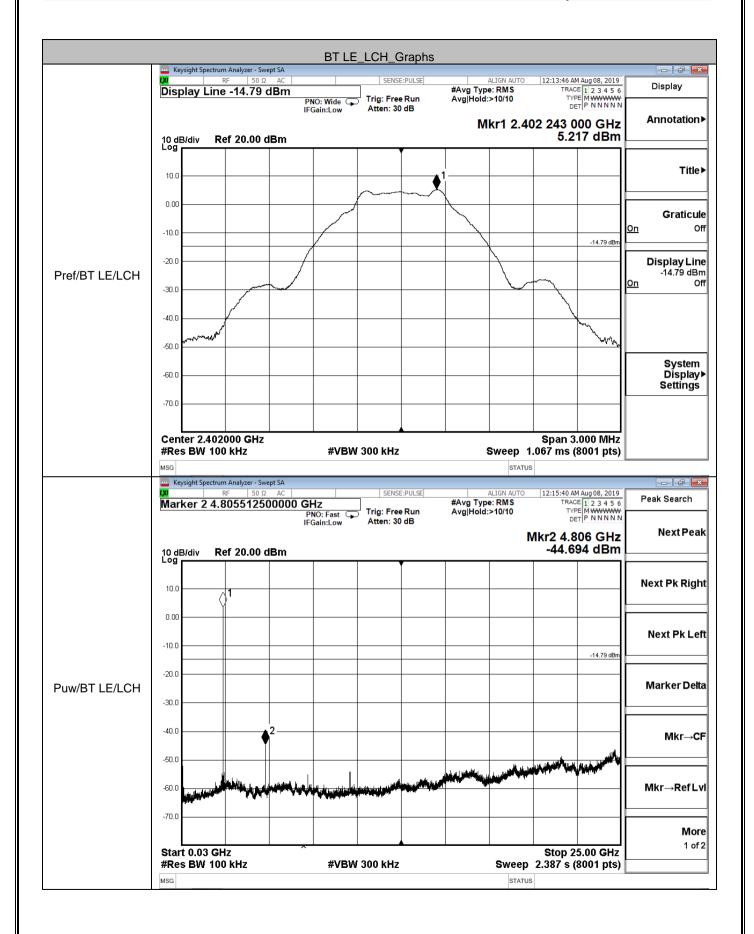
A.4 6dB Bandwidth and Occupied Bandwidth

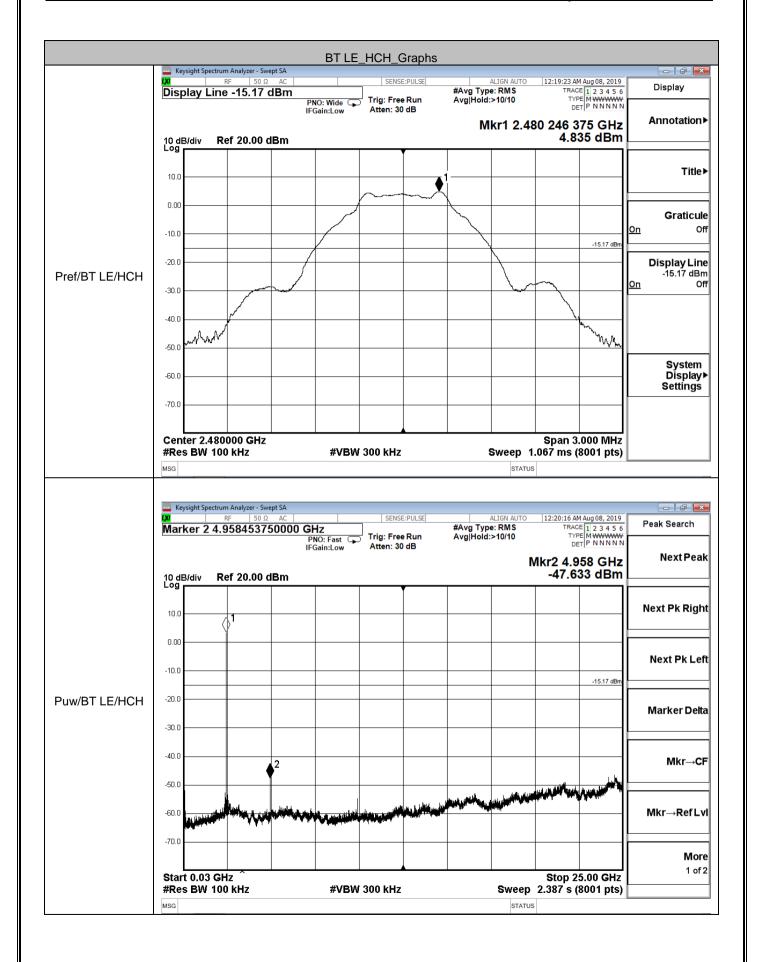
| Mode | Channel | Occupied 6dB Bandwidth [MHz] | | Limit [MHz] | Verdict | |
|-------|---------|------------------------------|--------|-------------|---------|--|
| BT LE | LCH | 1.0257 | 0.6594 | ≥0.5 | PASS | |
| BT LE | MCH | 1.0296 | 0.6652 | ≥0.5 | PASS | |
| BT LE | HCH | 1.0246 | 0.6589 | ≥0.5 | PASS | |



A.6 RF Conducted Spurious Emissions

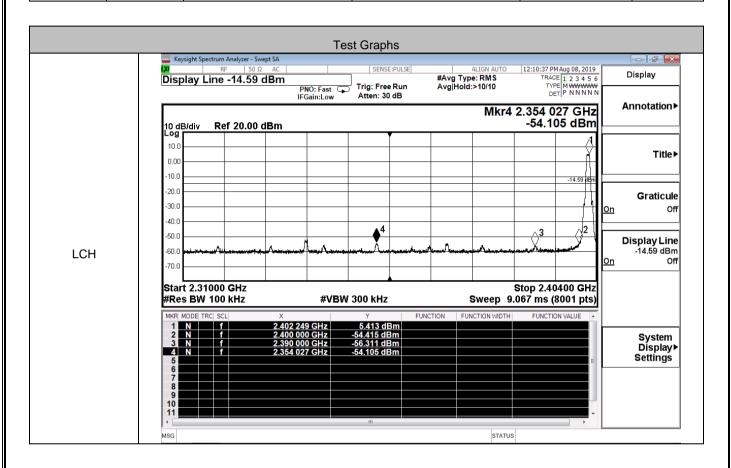
| Mode | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH | 5.217 | -44.694 | -14.78 | PASS |
| BT LE | MCH | 5.204 | -45.060 | -14.80 | PASS |
| BT LE | НСН | 4.835 | -47.633 | -15.17 | PASS |





A.7 Band-edge for RF Conducted Emissions

| Mode | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH | 5.413 | -54.105 | -14.59 | PASS |
| BT LE | HCH | 4.944 | -54.828 | -15.06 | PASS |



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A.8 Restrict-band band-edge measurements

| Test Mode | Test Chann el | Ant | Freq. | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/ m] | Verdi |
|--------------|---------------------|------|--------|----------------|------|------------------|---------------|----------|-----------------------|-------|
| | | Ant1 | 2310.0 | -50.661 | 2.0 | 0 | 46.57 | PEAK | 74 | PASS |
| BT LE | | Ant1 | 2310.0 | -62.566 | 2.0 | 0 | 34.66 | AV | 54 | PASS |
| | 2402 | Ant1 | 2390.0 | -47.409 | 2.0 | 0 | 49.82 | PEAK | 74 | PASS |
| | | Ant1 | 2390.0 | -59.560 | 2.0 | 0 | 37.67 | AV | 54 | PASS |
| | 2480 | Ant1 | 2483.5 | -48.178 | 2.0 | 0 | 49.05 | PEAK | 74 | PASS |
| | | Ant1 | 2483.5 | -59.649 | 2.0 | 0 | 37.58 | AV | 54 | PASS |
| | | Ant1 | 2500.0 | -50.587 | 2.0 | 0 | 46.64 | PEAK | 74 | PASS |
| | | Ant1 | 2500.0 | -61.703 | 2.0 | 0 | 35.53 | AV | 54 | PASS |

