

**FCC RF EXPOSURE REPORT**

|                                   |                                                                                                                                                                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT</b>                        | Wireless Transmitter                                                                                                                                                                                                                      |
| <b>Frequency band (Operating)</b> | <input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz<br><input checked="" type="checkbox"/> WLAN: 5.180GHz ~ 5.240GHz<br><input type="checkbox"/> Bluetooth: 2.402GHz ~ 2.480 GHz                                                           |
| <b>Device category</b>            | <input type="checkbox"/> Portable (<20cm separation)<br><input checked="" type="checkbox"/> Mobile (>20cm separation)                                                                                                                     |
| <b>Exposure classification</b>    | <input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm <sup>2</sup> )<br><input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm <sup>2</sup> )                                             |
| <b>Antenna diversity</b>          | <input type="checkbox"/> Single antenna<br><input checked="" type="checkbox"/> Multiple antennas<br><input type="checkbox"/> Tx diversity<br><input type="checkbox"/> Rx diversity<br><input checked="" type="checkbox"/> Tx/Rx diversity |
| <b>Max. output power</b>          | Chain 0: 9.88dBm (9.73 mW)<br>Chain 1: 9.66dBm (9.25 mW)                                                                                                                                                                                  |
| <b>Antenna gain (Max)</b>         | Chain0:2.0 dBi<br>Chain1:2.0 dBi                                                                                                                                                                                                          |
| <b>Evaluation applied</b>         | <input checked="" type="checkbox"/> MPE Evaluation*<br><input type="checkbox"/> SAR Evaluation<br><input type="checkbox"/> N/A                                                                                                            |

**TEST RESULTS**

No non-compliance noted.

**Calculation Method of RF Safety Distance:**

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

Where S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

EIRP = Effective Isotropically Radiated Power

Values S = 1.0 mW/cm<sup>2</sup> for General population uncontrolled exposure (FCC Part 1.1310 Radiofrequency radiation exposure limits)

$$S = 1.0 \text{ mW/cm}^2$$

$$P = 9.88\text{dBm} (9.7274 \text{ mW})$$

$$G = \text{Antenna gain (total array gain)} = 2.0 \text{ dBi}$$

$$EIRP = P_T \times G$$

$$R = 20 \text{ cm}$$

**Calculation:**

$$EIRP = 9.7274 \times 2.0 = 19.4548\text{mW}$$

$$S = 19.4548 / 12.56 \times (20)^2$$

$$S = 19.465 / 5026$$

$$S = 0.0038 \text{ mW/cm}^2$$