

Appendix 5

Radio Frequency Exposure

Safety Human Exposure – Radio Frequency Exposure Compliance	Pass
Test Specification : FCC KDB Publication 447498 D01 v05r02 Requirement : The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}]$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison	
Results : max. power found in channel 2402MHz = -4.18dBm max. EIRP = output power + antenna gain = -4.18 + 0 = -4.18dBm (0.382mW) min. test separation distance = 5mm frequency = 2.402GHz Exclusion threshold = $(3 \times 5) / (\sqrt{2.402})$ = 9.68 mW Since maximum peak output power of the transmitter is 0.382mW < 9.68mW, the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure v05r02.	

Test Specification : RSS-102 Issue 5	
Requirement	: SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1 in RSS-102 Issue 5.
According to table 1 in RSS-102 Issue 5, below exemption limit is applied	
- Frequency: 2450MHz - At separation distance of ≤ 5mm - Exemption limits: 4mW	
Results	: max. power of channel = -4.18dBm = 0.382 mW (e.i.r.p.) < 4mW The maximum peak output power of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement. For test results, please refer to Appendix 1 page 4-5.