

FCC RF Exposure description

FCC ID : A3LBN8109990A

1. Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This Smart Touch Control can be used in a Portable device.

2. Maximum output power including tune-up tolerance

Frequency band (GHz)	¹⁾ Target power (dBm)	¹⁾ Tune-up tolerance (dB)	Target + Tune-up tolerance (dBm)	Target + Tune-up tolerance (mW)
2.441	7.5	1.5	9	7.9

Notes:

1) Target power and Tune-up tolerance were declared by manufacturer.

3. SAR test exclusion thresholds

Frequency band (GHz)	Target power including tune-up tolerance (mW)	Min. test separation distance (mm)	$\sqrt{f_{\text{(GHz)}}}$	¹⁾ SAR test exclusion calculation result	²⁾ 1-g SAR test exclusion threshold	Result
2.441	7.9	5.0	1.6	2.5	3.0	Pass

Notes:

1) SAR test exclusion calculation result = [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f_{\text{(GHz)}}}$]

2) SAR Test Exclusion Thresholds at 5 mm Separation Distance were referred to Appendix A in 447498 D01 General RF Exposure Guidance v05r01. See a table for SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm in Appendix A on page 15

4. Conclusion

As the output power of A3LBN8109990A is below SAR test exclusion thresholds, the SAR evaluation is not required.