

# FCC RF Exposure description

## FCC ID : DSB-100

### 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 tolerancer

Frequency band (GHz)	<sup>1</sup> Target power (dBm)	<sup>1</sup> Tune-up tolerance (dB)	Target + Tune-up tolerance (dBm)	Target + Tune-up tolerance (mW)
2.441	4	1.0	5	3.2

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)	$\sqrt{f}$ (GHz)	<sup>1</sup> SAR test exclusion calculation result	<sup>2</sup> 1-g SAR test exclusion threshold	Result
2.441	3.2	5.0	1.6	<b>1.0</b>	3.0	Pass

Notes:

1) SAR test exclusion calculation result =[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(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 DSB-100 is below SAR test exclusion thresholds, the SAR evaluation is not required.