

Analysis Report

Report No.: 20060073HKG-001

The Equipment Under Test (EUT) is the Narwhal Shower Speaker which is the audio speaker for audio playing. The EUT is a "Bluetooth 5" device which operates at frequency range between 2402MHz and 2480MHz. The EUT is powered by an internal 3.7V rechargeable battery. The USB port is for charging internal battery purpose only that does not have data transfer. This "Bluetooth 5" device that without support data rate of 2Mbps.

According to the KDB 447498:

Max Conducted Power = EIRP – antenna gain
= 2 dBm (97.2 dBμV/m@3m) + 0.58 dBi
= 2.58 dBm (1.8 mW)

The SAR Exclusion Threshold Level:
= $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
= $3.0 * 5 / \sqrt{2.480}$ mW
= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.