RF Exposure evaluation

Product Description: BLUETOOTH SPEAKER
Model Number: BTS-L6
FCC ID: R8HBTSL6

According to 447498 D01 General RF Exposure Guidance v05 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: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(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

According to the follow transmitter output power（Pt）formula：
Pt=（E x d）2/（30 x gt）
Pt=transmitter output power in watts
gt=numeric gain of the transmitting antenna (unitess)
E=electric field strength in V/m
d=measurement distance in meters (m)

According to the formula described above:

Emax=**93.31**dBuv/m=**0.046**V/m, d=3m, g_t=1.22

P_t= (E x d) ^{2}/ (30 x g_t) =(**0.046**x3)^2 / (30x1.22)=**0.0005203**W=**0.52**mW

The result is rounded to one decimal place for comparison

Worse case is as below: [2402MHz -**0.52**mW output power]

(**0.52**mW / 5mm)*[√2.402(GHz)] = **0.16** < 3.0 for 1 - g SAR

Then SAR evaluation is not required

NOTE: For the maximum power, you can refer FCC test report.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cert.com.