RF Exposure evaluation

Product Description: Bluetooth Speaker
Model Number: AS370
FCC ID: 2AOYF-MONSTERLINK

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 (P_t) formula：
$P_t = (E \times d)^2 / (30 \times g_t)$
P_t=transmitter output power in watts
g_t=numeric gain of the transmitting antenna (unitess)
E=electric field strength in V/m
d=measurement distance in meters (m)

According to the above test data,
P_t=7.53dBm=5.66mW

  The result is rounded to one decimal place for comparison
  Worse case is as below: [2480MHz -3.0mW output power]
  (5.66mW /5mm).[√2.480(GHz)]=1.78<3.0 for 1-g SAR
  Then SAR evaluation is not required

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

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