RF Exposure evaluation

Product Description: bluetooth digital speaker

Model Number: F3, M3,F3C

FCC ID: 2AIGHF3

According to $447498\,D01$ General RF Exposure Guidance v06 for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by: the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]

• [$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR and \leq 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:

Pt = 4,54 dBm = 2,84 mW

The result is rounded to one decimal place for comparison Worse case is as below: [2402 MHz - 2,84 mW output power]

 $(2.84 \text{ mW} / 5 \text{ mm})^* [\sqrt{2402} \text{ (GHz)}] = 0.88 < 3.0 \text{ for } 1 - \text{g SAR}$

Then SAR evaluation is not required

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