

# FCC RF Exposure

EUT Description: MP3 Player

Model No.: M4S

FCC ID: 2BG68-M4S

## 1. Limits

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

$[(\text{max power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

Where:

Result =  $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mw

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power (dBm/mW) | Min test separation distance (mm) | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|-----------------|--------------------|---------------------|----------------------------|-----------------------------------|--------|-----------------------------|--------------------|
| EDR 2480        | 5.82               | 5 $\pm$ 1(6)        | 3.981                      | 5                                 | 1.254  | 3.0                         | Pass               |
| 2.4GWIFI 2462   | 8.70               | 8 $\pm$ 1(9)        | 7.943                      | 5                                 | 2.493  | 3.0                         | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report HK2405242700-1E/2E, antenna gain = -2.36dBi

WIFI and Bluetooth cannot be transmitted at the same time.

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 2.493 which is  $\leq 3$ , RF Exposure testing is not required.

Note: Exclusion Thresholds Results =  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance = 5mm