

FCC RF Exposure

EUT Description: MP3 PALYER

Model No.: G1, G3, G5, G7, G9, S1, S2, S4, S6, S8

FCC ID: 2A6DB-G1

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 ≤ 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 ≤ 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 ²)	SAR Test Exclusion
EDR: 2441	3.76	3 ± 1	4/2.51	5	0.780	3.0	Pass
2.4G WIFI: 2462	8.91	8 ± 1	9/7.94	5	2.466	3.0	Pass
5.2G WIFI: 5180	7.44	7 ± 1	8/6.31	5	2.872	3.0	Pass
5.8G WIFI: 5745	5.89	5 ± 1	6/3.98	5	1.908	3.0	Pass

Note:

PK Output power= conducted power.

The device could not transmit simultaneously in 2.4G and 5G.

Conducted power see the test report **HK2204131530-1E/2E/3E/4E**, BT Antenna Gain: -5.5dBi, 2.4G WIFI Antenna Gain: -5.9dBi, 5.2G WIFI Antenna Gain: 0.1dBi, 5.8G WIFI Antenna Gain: -0.3dBi

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 2.872 which is ≤ 3 , RF Exposure testing is not required.

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

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

Distance=5mm