

## RF EXPOSURE EVALUATION

Product Name	:	MP3 PLAYER			
Model Name	:	F3BT,T35B,V5,V8,MP100 Note: all models have the same RF module and Antenna, except for color of enclosure and model No. for trading purpose.			
Bluetooth Version	:	BT 4.0 BLE			
Operating frequency		2402-2480MHz			
Numbers of Channel		40			
Antenna Type		Patch antenna			
Antenna Gain		1 dBi			
Type of Modulation		GFSK,			
Power supply	:	Adapter model:N/A Input: DC 5V, 500maH(with DC 3.7V, 300mAh Battery inside)			
Hardware Version		N/A			
Software Version	:	N/A			

## Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq$  50mm are determined by:

[ (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 SAR 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
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is  $\leq$ 5mm, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements



or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance	Max Tune Up Power (dBm)		Calculation results	Limit	Operating Mode
2402	-2.651	$-2.651 \pm 1$	-1.651	5	0.212	3	BLE

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

Signature

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