

FCC ID: SSMMEFCM2

Portable device

According to §15.247(e)(i) and §1.1307(b)(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 level in excess of the Commission’s guidelines.

According to KDB447498 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:

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

f(GHz) is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm

and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

Bluetooth:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result	1-g SAR
					calculation	
2.402	GFSK	0.567	1±1	2	0.4913	3
2.441	GFSK	0.663	1±1	2	0.4952	3
2.48	GFSK	0.283	1±1	2	0.4992	3
2.402	π /4-DQPSK	1.595	2±1	3	0.6185	3
2.441	π /4-DQPSK	1.648	2±1	3	0.6235	3
2.48	π /4-DQPSK	1.276	2±1	3	0.6284	3
2.402	8DPSK	1.934	2±1	3	0.6185	3
2.441	8DPSK	2.071	2±1	3	0.6235	3
2.48	8DPSK	1.636	2±1	3	0.6284	3

Conclusion:

For the max result : 0.6284≤ 3.0 for 1-g SAR extremity SAR, No SAR is required.

Signature: 

Date: 2015-12-09

NAME AND TITLE: David Lee/Manager

COMPANY: Shenzhen EMTEK Co.,Ltd./Building 69, Majialong Industry Zone, Nanshan District, Shenzhen,Guangdong,China