Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE148571

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RF Exposure Evaluation FCC ID: 2ABQOAMK-K33-02B

1. Client Information

Applicant : DongGuan Meiluodi Electronics Co., Ltd

Address: No.16, Zhenxing Road, Shangjiao, Chang'an, Dongguan, Guangdong,

523878 China

Manufacturer : DongGuan Meiluodi Electronics Co., Ltd

Address: No.16, Zhenxing Road, Shangjiao, Chang'an, Dongguan, Guangdong,

523878 China

2. General Description of EUT

EUT Name		Portable speaker backpack				
Models No.	:	AMK-K33-02B				
Model Difference	: 1	N/A				
Product Description		Operation Frequency: Bluetooth 2.1+EDR:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	Bluetooth: 3.77 dBm(GFSK 1Mbps)			
		Antenna Gain:	0 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)			
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.				
Power Rating	Ŀ	DC 5V by USB Cable from PC system. DC 3.7V by Li-ion Battery.				
Connecting I/O Port(S)	6	Please refer to the User's Manual				

Note:

More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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2.

Calculation:

Test separation	: 5mm				_ N
		Bluetooth Mode	e (GFSK)		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB) ±0.5	Max power of tune up tolerance (mw) 2.605	Calculation Value	Threshold Value 3.0
2.402	3.658				
2.441	3.770	±0.5	2.673	0.835	3.0
2.480	3.522	±0.5	2.525	0.795	3.0
	The same of the sa	Bluetooth Mode (7	/4-DQPSK)	MILLER	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.221	±0.5	1.871	0.580	3.0
2.441	3.141	±0.5	2.313	0.723	3.0
2.480	2.239	±0.5	1.879	0.592	3.0
73		Bluetooth Mode	(8-DPSK)		33
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.446	±0.5	1.971	0.611	3.0
2.441	2.087	±0.5	1.814	0.567	3.0
2.480	2.043	±0.5	1.796	0.566	3.0

So standalone SAR measurements are not required.