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RF Exposure Evaluation FCC ID: 2AA5V –F382401

1. Client Information

Applicant: Krischerco World-Wide Co.

Address : 13/F-8, 155 Keelung Rd. Sec.1, Taipei, Taiwan

Manufacturer: Dongguan City Jilong Bags Co., Ltd.

Address : Sunshine Road No1. Shijie Town, Dongguan, Guangdong, China

2. General Description of EUT

<u> </u>		ription of Lot			
EUT Name	:	Mini Wireless Speaker			
Models No.	:	F3824011/PP#5068755			
Model Difference	:	N/A			
Product Description	:	Operation Frequency: 2402MHz~2480MHz			
		Number of Channel:	Bluetooth:79Channels		
		Out Power:	GFSK: 2.52 dBm Conducted Power		
		Antenna Gain:	0 dBi PCB Antenna		
		Modulation Type:	GFSK 1Mbps(1 Mbps)		
Power Supply	:	DC Voltage supplied from Host System by USB cable DC Voltage supplied by Li-ion battery.			
Power Rating	:	DC 5.0V from USB			
		Li-ion battery DC 3.7V 230mAh			
Connecting I/O		Please refer to the User's Manual			
Port(S)	•				

Note

For a more detailed features description, please refer to the RF Test Report.

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MPE Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05.

(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≤50 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

Calculation:

The maximum power is 2.52 dBm(1.786mW) @2.480GHz

Separation Distance: 5mm

For 1-g SAR Result: 0.563≤3.0

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So standalone SAR measurements are not required.



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(2) Appendix A: SAR Test Thresholds for 100MHz~6GHz and \leq 50mm.

SAR can be exempted if the output power is less than the SAR exclusion Threshold: For F=2450, and Distance=5mm, the output power is less than 10mW (10 dBm).

Please see the follow table:

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	SAR Test Exclusion Threshold (mW)
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
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MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	CAD T
1500	73	86	98	110	122	SAR Test Exclusion Threshold (mW)
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	



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2. Calculation:

EIRP= P+G

Where P=Conducted Output Power (dBm) G=Power Gain of the Antenna (dBi)

So

Bluetooth Mode								
Test Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)				
GFSK	2.52	0	2.52	1.786				

3. Conclusion:

No SAR Evaluation required since Transmitter output power is bellow FCC threshold and IC standards.