RF Exposure Evaluation

FCC ID: 2AV29-B155PU

1. Client Information

Applicant	**:**	Zhongshan Jesmay Electronics Co., Ltd
Address	**:**	No.1 Industry District, Tan Zhou Town, Zhong Shan City, Guangdong, China
Manufacturer	**:**	Zhongshan Jesmay Electronics Co., Ltd
Address		No.1 Industry District, Tan Zhou Town, Zhong Shan City, Guangdong, China

2. General Description of EUT

EUT Name	:	Baby Monitor	
Model(s) No.	**:**	JM55865R, B155R, JM55995R, B145R, B155, B155-2T	
Model Different	**:**	All PCB boards and circuit diagrams are the same, the only difference is that model names.	
Product Description	**:**	Operation Frequency:	2410MHz~2473MHz
		Antenna Gain:	2.0dBi External Antenna
Power Supply	**:**	Adapter(ZD012A050200US) Input: 100-240V~50/60Hz 0.5A Output: 5V2000mA DC 3.7V by 4400mAh 16.28 Rechargeable Li-ion battery	
Software Version	**:**	----	
Hardware Version	**:**	----	
Remark: The antenna gain and adapter provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab.			

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

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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 v06.**
   (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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
2.4G						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2410	8.17	8±1	9	7.943	2.466	**3.0**
2441.5	8.81	8±1	9	7.943	2.482	**3.0**
2473	8.87	8±1	9	7.943	2.498	**3.0**

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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