Maximum Permissible Exposure Evaluation

FCC ID: 2AV29-B245

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	
Models No.	:	JM55976T, B245T, B245	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.	
Product Description	:	Operation Frequency:	2410MHz~2477MHz
		Number of Channel:	23 Channels
		Antenna Gain:	3dBi Dipole Antenna
Power Rating		Adapter (Model: ZD5C050100USW) Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V,1A	
Software Version	:	V1.0	
Hardware Version	:	V1.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	the evaluation report used the EUT(202204-0149-4-2#).	

MPE Calculations for WIFI

1. **Antenna Gain:**
   Dipole Antenna:3dBi.

2. **EUT Operation Condition:**
   Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. **Exposure Evaluation:**
   Equation from page 18 of OET Bulletin 65, Edition 97-01
   $S=(PG)/4\pi R^2$
   Where
   S: power density
   P: power input to the antenna
   G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
   R: distance to the center of radiation of the antenna

4. **Test Result:**

2.4G WiFi

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm^2) [S]	Limit of Power Density (mW/ cm^2) (S)
2.4G	14.95	14±1	15	3	20	0.01255	1

5. **Conclusion:**
As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm^2)
300-1,500	F/1500
1,500-100,000	1.0

For 2.4WIFI:2412~2462 MHz
MPE limit S: 1mW/ cm^2
The MPE is calculated as **0.01255*mW* / *cm²* < *limit 1mW / cm²***. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091

(b).The RF Exposure Information page from the manual is included here for reference.

Note

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

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----END OF REPORT-----