

RF Exposure Evaluation

Test report
On Behalf of
JIUYI ELECTRONICS (HK) CO., LIMITED
For
wireless microphone

Model No.: K31, PDWMKHRD23, PDWMKHRD22WM.5, K30

FCC ID: 2AMZ9-PDWMKHRD23

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1 General Description of EUT

Equipment	wireless microphone
Model Name	K31
Serial No.	PDWMKHD23, PDWMKHD22WM.5, K30
Model Difference	All model's the function, software and electric circuit are the same, only model named different. Test sample model: K31
Trade Mark	PYLEUSA/JYE
FCC ID	2AMZ9-PDWMKHD23
Hardware Version:	190915V1.2SM <LED>
Software Version:	V1.1.3
Operation frequency	542.5MHz – 588.6MHz
Number of Channels	32
Antenna Type	PCB antenna
Antenna Gain	1.8dBi
Modulation Type	FM
Power Source	DC 3.0 from AA*2 battery

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

3 EUT RF Exposure

FM modulation						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (542.5MHz)	-7.788	-6±2	-4	0.398	0.059	3.0
Middle (561.7MHz)	-7.189	-6±2	-4	0.398	0.060	
Highest (588.6MHz)	-6.451	-6±2	-4	0.398	0.061	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK1911102831-E