




Report No.: PTC22061403801E-FC03

FCC TEST REPORT

FCC ID: 2A7F7GYXSL-TVD6003H

Product	:	Pxierra Ai Baby Monitor
Model Name	:	TVD6003H,TVD6004H,TVD6005H,TVD6006H,TVD6007H,TVD6008H
Brand	:	 Pxierra Ai
Report No.	:	PTC22061403801E-FC03
Prepared for		
Pxierra Limited		
A504, Qilin Maker Town, No.41 liupanshui Road, National High-tech Industrial Development Zone, Guiyang, Guizhou, China		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Pxierra Limited

Address : A504, Qilin Maker Town, No.41 liupanshui Road, National High-tech Industrial Development Zone, Guiyang, Guizhou, China

Manufacture's name : Pxierra Limited

Address : A504, Qilin Maker Town, No.41 liupanshui Road, National High-tech Industrial Development Zone, Guiyang, Guizhou, China

Product name : Pxierra Ai Baby Monitor

Model name : TVD6003H, TVD6004H, TVD6005H, TVD6006H, TVD6007H, TVD6008H

Test procedure : FCC CFR47 Part 15 Section 15.247

Test Date : Jun. 15, 2022 to Aug. 01, 2022

Date of Issue : Aug. 18, 2022

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Ronnie Liu'.

Ronnie Liu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Pxierra Ai Baby Monitor
Model Name	:	TVD6003H,TVD6004H,TVD6005H,TVD6006H,TVD6007H,TVD6008H
Specification	:	2.4G wifi: 802.11b/g/n HT20; 5G wifi: 802.11a//nHT20/HT40/ac20/ac40/ac80
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20); 5GWifi:5150-5250MHz; 5.8GWifi:5725MHz~5850MHz
Number of Channel	:	11 channels for 802.11b/g/ n(HT20),9 channels for 802.11a/n20/ac20; 4 channels for 802.11n40/ac40;2 channels for 802.11ac80
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/a/ac;
Antenna installation	:	Integral antenna
Antenna Gain	:	Wifi 2.4G:1 dBi Wifi 5G:2 dBi
Power supply	:	Adapter: Model: QL010-0502000UU Input: 100-240V~50/60Hz 0.45A Output:DC5V,2.0A
Hardware Version	:	1.0.1
Software Version	:	1.0.99



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
2462	1.26	23.09	23.09 ± 0.5	203.704208	0.051019	1	Pass
5240	1.58	12.75	12.75 ± 0.5	18.836491	0.005939	1	Pass

*****THE END REPORT*****