



RF Exposure Evaluation Declaration

FCC ID : 2AQVU0078
Applicant : JOYTECH Healthcare Co., Ltd.
Product : Infrared Ear/Forehead Thermometer
Model No. : DET-2133b
FCC Rule Part(s) : FCC Part 2.1093
Received Date : 2026-07-09

Reviewed By : *Paddy Chen*
(Paddy Chen)
Approved By : *Chenz Ker*
(Chenz Ker)

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2607TW0111-U2	V1.0	Original Report	2026-08-19	Valid

CONTENTS

Description	Page
1. General Information	4
1.1. Applicant.....	4
1.2. Manufacturer	4
1.3. Testing Facility	4
2. PRODUCT INFORMATION.....	5
2.1. Feature of Equipment under Test	5
2.2. Description of Available Antennas.....	5
2.3. Device Classification.....	6
2.4. Applied Standards	6
3. RF Exposure Evaluation	7
3.1. Limits.....	7
3.2. Test Result of RF Exposure Evaluation.....	8

1. General Information

1.1. Applicant

JOYTECH Healthcare Co., Ltd.

No.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, PEOPLE' S REPUBLIC OF CHINA.

1.2. Manufacturer

JOYTECH Healthcare Co., Ltd.

No.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, PEOPLE' S REPUBLIC OF CHINA.

1.3. Testing Facility

☒	Test Site 1 - MRT Taiwan Laboratory
	Laboratory Location No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261
☐	Test Site 2 - MRT Taiwan Laboratory
	Laboratory Location No. 64, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	Infrared Ear/Forehead Thermometer
Model No.	DET-2133b
Specification	Bluetooth Single mode, BLE Only
Note: 1.The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

2.2. Description of Available Antennas

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	HAIYUN	JMD1102/JMD1105/JMD1106	PCB Antenna	-1.37dBi

2.3. Device Classification

According to the user manual, this device is classified as a Portable Device. So, the RF exposure evaluation requirements of § 2.1093 for Portable device exposure conditions subject to MPE limits.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC Part 2.1093 & KDB 447498 D04 Interim General RF Exposure Guidance v01

3. RF Exposure Evaluation

3.1. Limits

According to FCC KDB 447498 D04V01 - SAR-Based Exemption

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula .

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

The example values shown as below are for illustration only.

Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

3.2. Test Result of RF Exposure Evaluation

Product	Infrared Ear/Forehead Thermometer
Test Item	RF Exposure Evaluation

Mode	Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	EIRP (mW)	FCC Extremity SAR Test Exclusion Threshold (mW)
BLE	2402~2480	0.66	1.164	-1.37	0.849	3

So, this device can comply the SAR test exclusion.

_____ The End _____