



RF Exposure Evaluation Declaration

FCC ID : 2AQVU0077
Applicant : JOYTECH Healthcare Co., Ltd.
Product : Electric Breast Pump
Model No. : LD-3211L
Serial Model No. : LD-2211L
FCC Rule Part(s) : FCC Part 2.1093
Received Date : 2026-07-23

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(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.

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Revision History

Report No.	Version	Description	Issue Date	Note
2607TW0119-U2	1.0	Original Report	2026-09-29	Valid

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1. General Information

1.1. Applicant

JOYTECH Healthcare Co., Ltd.

No. 502, Shunda Road, 311100 Hangzhou, Zhejiang Province, PEOPLE' S REPUBLIC OF CHINA

1.2. Manufacturer

JOYTECH Healthcare Co., Ltd.

No. 502, Shunda 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: 933489, TW0041 ISED: TW3261

2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	Electric Breast Pump
Model No.	LD-3211L
Serial Model No.	LD-2211L
Specification	Bluetooth Single mode, BLE Only
Accessory	
Adapter	Model No.: MPSUL0501000
	Input Power: 100 - 240 V ~ 50/60 Hz, Max. 0.25 A
	Output Power: 5 VDC 1000 mA
collection cup	Type: Double-cup set (for LD-3211L)
	Type: Single-cup set (for LD-2211L)

Note1: Model Difference can refer as below, except for the number of external cups supplied with the product, the main unit and all hardware are identical. (declared by the manufacturer)

Model	Main Unit	External Cup Configuration
LD-3211L	Same	Two external cups
LD-2211L	Same	One external cup

Note2: The test was performed base on main Unit.

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. Therefore, the RF exposure evaluation requirements of § 2.1093 for portable device exposure conditions are met via SAR test exemption.

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	Electric Breast Pump
Test Item	RF Exposure Evaluation

Mode	Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	EIRP (mW)	FCC SAR Test Exclusion Threshold (mW)
BLE	2402~2480	2.84	1.923	-1.37	1.403	3

So, this device can comply the SAR test exclusion.

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