



RF Exposure Evaluation

FOR

Tian jin ming chang hao shang mao you xian gong si

Radio Frequency Skin Tightening Device

Test Model: JS02

Additional Model No.: Please Refer to Page 6

Prepared for : Tian jin ming chang hao shang mao you xian gong si
Address : hao chuang xin da sha B zuo1701 he ping qu nan shi jie dao nan
ma lu11, Tian jin shi, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : March 25, 2025
Number of tested samples : 2
Sample No. : A03255020-1, A03255020-2
Serial number : Prototype
Date of Test : March 25, 2025 ~ April 14, 2025
Date of Report : April 15, 2025





RF Exposure Evaluation	
Report Reference No.	: LCSA03255020EB
Date of Issue.....	: April 15, 2025
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address.....	: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure	: Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	: Tian jin ming chang hao shang mao you xian gong si
Address.....	: hao chuang xin da sha B zuo1701 he ping qu nan shi jie dao nan ma lu11, Tian jin shi, China
Test Specification	
Standard	: FCC KDB publication 447498 D01 General RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093
Test Report Form No.....	: TRF-4-E-215 A/0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2011-03
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Test Item Description.....	: Radio Frequency Skin Tightening Device
Trade Mark	: N/A
Test Model	: JS02
Ratings.....	: Input: DC 5V, 1A DC 3.7V by Rechargeable Li-ion Battery, 2200mAh
Result	: PASS

Compiled by:

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Kevin Huang/ Administrator

Supervised by:

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Jack Liu/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager



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RF Exposure Evaluation

Test Report No. : LCSA03255020EB	April 15, 2025 Date of issue
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Test	: JS02
EUT.....	: Radio Frequency Skin Tightening Device
Applicant.....	: Tian jin ming chang hao shang mao you xian gong si
Address.....	: hao chuang xin da sha B zuo1701 he ping qu nan shi jie dao nan ma lu11, Tian jin shi, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Loveka Technology Co.,Ltd
Address.....	: 5th Floor of West, 6 Building, Tianfu'an Industrial Park, Huangmabu residential committee, Hangcheng Road, Bao'an District, Shenzhen Guangdong, China
Telephone.....	: /
Fax.....	: /
Factory.....	: Shenzhen Loveka Technology Co.,Ltd
Address.....	: 5th Floor of West, 6 Building, Tianfu'an Industrial Park, Huangmabu residential committee, Hangcheng Road, Bao'an District, Shenzhen Guangdong, China
Telephone.....	: /
Fax.....	: /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	April 15, 2025	Initial Issue	---





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1. Product Information

EUT	: Radio Frequency Skin Tightening Device
Test Model	: JS02
Additional Model No.	: JS01, JS01max, DR06, DR08pro, DR04pro, JS01Pro, Y08, Y09, Y10
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Input: DC 5V, 1A DC 3.7V by Rechargeable Li-ion Battery, 2200mAh
Hardware Version	: /
Software Version	: /
RF ID	:
Operating Frequency:	: 27.15MHz
Modulation Type	: ASK
Antenna Description	: Internal Antenna, 0dBi (Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Portable Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

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

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to f) in section 4.1 is applied to determine SAR test exclusion.

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C)

1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$

2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	





When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- a) The $[\sum \text{of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance)} / 1.6 \text{ W/kg}] + [\sum \text{of MPE ratios}] \leq 1.0$.
- b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the $[\sum \text{of MPE ratios}] \leq 1.0$.

3. Refer Evaluation Method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices



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4. Conducted Power Results

<RFID>

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)
ASK	27.15	-51.61

Note:

TX frequency range: 27.15MHz

Device category: Portable device (Distance: 5mm) Max. Field Strength: 43.65dBuV/m @3m

EIRP=E-104.8+20logD=43.65-104.8+20log3=-51.61dBm

Maximum Conducted Output Power: -51.61dBm

5. Manufacturing Tolerance

<RFID>

ASK (Peak)	
Frequency (MHz)	13.56
Target (dBm)	-51
Tolerance ±(dB)	1.0

6. Evaluation Results

6.1 Standalone Evaluation

Mode	f (MHz)	Antenna Distance (mm)	Max. Field Strength (dBuV/m @3m)	Max. Conducted Output Power(dBm)	Output power (Max. Turn-up Procedure) (mW)	Limit P _m (mW)
ASK	27.15	5	39.92	-50	0.0000003	442.64

Remark:

1. Output power including tune up tolerance;
2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one RFID modular. No need consider simultaneous transmission.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.



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9. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	$\pm 3.10\text{dB}$	(1)
		30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
		200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
		1GHz~26.5GHz	$\pm 3.80\text{dB}$	(1)
		26.5GHz~40GHz	$\pm 3.90\text{dB}$	(1)
Conduction Uncertainty	:	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance	:	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

.....THE END OF REPORT.....

