

Address

RF Exposure Evaluation

FOR

Dongguan Desheng Industrial Co., Ltd

Dongle

Test Model: HG04dongle

Additional Model No.: Please Refer to Page 6

Prepared for : Dongguan Desheng Industrial Co., Ltd

Area A5, Shichong Industrial Park, Shipai Town, Dongguan

City,China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd

Address 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

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Mail : webmaster@LCS-cert.com

Date of receipt of test sample : March 26, 2025

Number of tested samples : 2

Sample No. : A250320086-1, A250320086-2

Sample number : Prototype

Date of Test : March 26, 2025 ~ April 03, 2025

Date of Report : April 07, 2025





	RF Exposure Evaluation				
Report Reference No	: LCSA03205121EB	ar ar			
Date of Issue	: April 07, 2025				
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Lab	oratory Ltd.			
Address	Chajing Circuit, Bacam Blothot, Chenzhon,	518000, China			
Testing Location/ Procedure	Full application of Harmonised standards Partial application of Harmonised standard Other standard testing method				
Applicant's Name	: Dongguan Desheng Industrial Co., Ltd				
Address	Area A5, Shichong Industrial Park, Shipai City, China	Town,Dongguan			
Test Specification	1/30 rc2 ,	LCS			
Standard: Test Report Form No	FCC KDB publication 447498 D01 General Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093 TRF-4-E-215 A/0	ll 1 RF Exposure			
	: Shenzhen LCS Compliance Testing Labor	atory Ltd.			

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Test Item Description.: Dongle

Trade Mark..... : N/A

Test Model HG04dongle

Master TRF: Dated 2011-03

Ratings: Dongle: DC 5V for Compute

Result: PASS

Compiled by:

Supervised by:

Approved by:

Jack Liu/Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager





RF Exposure Evaluation

Test Report No. : LCSA03205121EB April 07, 2025

Date of issue

Test Model.....: HG04dongle

EUT.....: : Dongle

Applicant.....: : Dongguan Desheng Industrial Co., Ltd

Address...... : Area A5, Shichong Industrial Park, Shipai Town, Dongguan

City,China

Telephone.....:: : /

Fax.....:: : /

Manufacturer.....: : Dongguan Desheng Industrial Co., Ltd

Address.....: : Area A5, Shichong Industrial Park, Shipai Town, Dongguan

City, China

Telephone.....:: /

Fax.....: ; /

Factory.....: : Dongguan Desheng Industrial Co., Ltd

Address.....: : Area A5, Shichong Industrial Park, Shipai Town, Dongguan

City, China

Telephone....:: /

Fax.....:: : /

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Test Result	PASS

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.



Shenzhen LCS Compliance Testing Laboratory Ltd.



Revision History

Revision History			
Report Version	Till Maring Lab	Payisian Content	Paviand Pa
Report Version 000	Issue Date April 07, 2025	Revision Content Initial Issue	Revised By
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Report No.: LCSA03205121EB

NSE 立讯检测股份



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11号 立讯检测股份

Report No.: LCSA03205121EB











FCC RF Exposure Evaluation

1. Product Information

Product name	Dongle
Test Model	HG04dongle
Additional Model No.	HG06dongle,HG08dongle,HG10dongle,HB02dongle,HB04dongle,
	HB06dongle, HB08dongle, HB10dongle
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no
	additional models were tested
Ratings	Dongle:DC 5V for Compute
Hardware Version	1 大洲位加加 大洲 the sing Lab
Software Version	1 AST LCS TO
2.4G Frequency Range	2402MHz-2480MHz
Channel Number	40 channels
Modulation Type	GFSK
Antenna Description	PCB Antenna,2.58dBi(Max.)
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Portable Device
IN DIAGNI	

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



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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-q head or body and 10-q 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."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] $\cdot [\sqrt{f} (GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 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.</p>

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 of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0. b) b)The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all \leq 0.04, and the [\sum of MPE ratios] is \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 1 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 Test Procedure

TX frequency range: 2402MHz

Device category: Portable device (Distance: 5mm)

Max. Field Strength: 75.83dBuV/m @3m

EIRP=E-104.8+20logD=75.83-104.8+20log3=-19.43dBm

Maximum Conducted Output Power: -22.01dBm

Turn-up: -22±1

5. Evaluation Results

Band/Mode Frequency (GHz)	Frequency	Antenna	RF output power		SAR Test	SAR Test Exclusion
	Distance (mm)	dBm	mW	Exclusion Threshold		
GFSK	2.402	5	-21.0	0.0079	0.0025< 3.0	Yes

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. 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.

7. 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.

8. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
一种现代		1GHz~26.5GHz	±3.80dB	(1)
Till Lab		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Occupied Channel	:	1GHz-40GHz	±5%	(1)
Bandwidth				

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





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