

TEST REPORT

Product Name : Wireless Receiver
Model Number : G8D-2403R
FCC ID : GDDG8D-2403R

Prepared for : Cherry Europe GmbH
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1. TEST RESULT CERTIFICATION

Applicant : Cherry Europe GmbH
Address : Cherrystraße 2, 91275 Auerbach i. d. OPf.
Manufacturer : Zhu hai Cherry Electronics Co., Ltd
Address : No.8, Jinyuan 1st Road, Tangjiawan Town, High Tech Industial Zone, Zhuhai City,Guangdong Province,P.R.of China
EUT : Wireless Receiver
Model Name : G8D-2403R
Trademark : **CHERRY** 

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : July 03, 2025 to July 24, 2025



Prepared by : Una Yu /Editor



Reviewer : Joe Xia/Supervisor



Approve & Authorized Signer : Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2506180129W00302R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Wireless Receiver
Model Number:	G8D-2403R
Sample:	1#
Data Rate:	SRD: 1Mbps for GFSK modulation 2Mbps for GFSK modulation
Modulation:	SRD: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 channels
Transmit Power Max:	-2.22 dBm(0.0006 W)
Antenna Gain:	1.81 dBi
Power supply:	DC 5V from USB
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

gain:	1.81 dBi	SRD EMF						
Mode	Frequen cy (MHz)	Output Power (dBm)	E.I.R.P(d Bm)	Tune upPower (dBm)	Max tune up power(dB m)	Calculatio n Result	1-g SAR	Verdict
GFSK 1M	2402	1.96	3.77	3±1	4	0.7786038	3	PASS
	2441	1.37	3.18	3±1	4	0.7848992	3	PASS
	2480	1.35	3.16	3±1	4	0.7911445	3	PASS
GFSK 2M	2402	1.90	3.71	3±1	4	0.7786038	3	PASS
	2441	1.33	3.14	3±1	4	0.7848992	3	PASS
	2480	1.35	3.16	3±1	4	0.7911445	3	PASS

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement

*** End of Report ***