



Maximum Permissible Exposure Evaluation

FCC ID: GDDJD-420R

Report No.	:	TBR-C-202512-0376-1
Applicant	:	Cherry Europe GmbH
Equipment Under Test (EUT)		
EUT Name	:	Wireless Receiver
Model No.	:	JD-420R
Series Model No.	:	N/A
Brand Name	:	CHERRY
Sample ID	:	HC-C-202512-0376-01-01&HC-C-202512-0376-01-02
Receipt Date	:	2025-12-30
Test Date	:	2025-12-30 to 2026-03-13
Issue Date	:	2026-03-13
Standards	:	FCC 47CFR §2.1093
Test Method	:	KDB 447498 D04 Interim General RF Exposure Guidance v01
Conclusions	:	PASS
In the configuration tested, the EUT complied with the standards specified above.		
Test By	:	Gold. zhang Gold zhang
Reviewed By	:	Henry huang Henry huang
Approved By	:	Ivan Su Ivan Su
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.		

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202512-0376-1	Rev.01	Initial issue of report	2026-03-13



1. General Information about EUT

1.1 Client Information

Applicant	:	Cherry Europe GmbH
Address	:	Cherry street 2,91275 Auerbach i.d. OPf. Germany
Manufacturer	:	Cherry Europe GmbH
Address	:	Cherry street 2,91275 Auerbach i.d. OPf. Germany

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Wireless Receiver	
Models No.	:	JD-420R	
Model Different	:	N/A	
Product Description	:	Operation Frequency:	UWB: 7372.8MHz
		Modulation Type:	FSK
		Antenna Gain:	1.84dBi PCB Antenna
Power Rating	:	DC 5V	
Software Version	:	N/A	
Hardware Version	:	N/A	
Remark: The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications. the laboratory shall not be held responsible.			



2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (ULab)
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB
Temperature	/	$\pm 0.6^{\circ}\text{C}$
Humidity	/	$\pm 4\%$
Supply voltages	/	$\pm 2\%$
Time	/	$\pm 4\%$



3. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



4. SAR Test Exclusion Calculations

4.1 FCC 47CFR §2.1093 REQUIREMENT

4.1.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

4.2 LIMIT

1-MW TEST EXEMPTION

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.



4.3 Calculation:

Test separation distance: 5mm=0.5cm

Antenna Gain=1.84dBi

Antenna Gain(Line)=1.528

UWB(FSK)					
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit (mW)
7372.8	-25.101	-25±1	-24	0.004	1.0

Note:

The Maximum power is less than the limit, complies with the exemption requirements.

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 D04 Interim General RF Exposure Guidance v01.

-----END OF THE REPORT-----

