EN 62479 REPORT

On Behalf of

Gembird Europe B.V.

Prepared For :	**Gembird Europe B.V.**
	Wittevrouwen, 56, 1358CD, Almere Haven, The Netherlands
Product Name:	**Bluetooth keyboard**
Trademark：	**N/A**
Model :	**(DR)KB-BT-001,KB-P6-BT,KB-3-BT,KB-BTF1/F2/F3-B/W,KB-BT3/BT4**
Prepared By :	**Shenzhen BCTC Technology Co., Ltd.** A. Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China
Test Date:	**Nov. 15, 2013**
Date of Report :	**Nov. 15, 2013**
Report No.:	**BCTC-13041199**

TEST REPORT

EN 62479: 2010

Assesment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10MHz to 300GHz)

Report Reference No. .....:	**BCTC-13041199**
Date of issue .....:	**Nov. 15, 2013**
Total number of pages.....:	11 pages
Testing Laboratory .....:	**Shenzhen BCTC Technology Co., Ltd.**
Address.....:	A. Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China
Applicant's name .....:	**Gembird Europe B.V.**
Address.....:	Wittevrouwen, 56, 1358CD, Almere Haven, The Netherlands
Test specification:	
Standard .....:	EN 62479: 2010
Test procedure.....:	CCA
Non-standard test method……..:	N/A

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description..... :	**Bluetooth keyboard**
Trade Mark .....:	**N/A**
Manufacturer.....:	**Gembird Electronics Ltd.** 5/F, Building B, Shifeng Industry District, Huaning Road, Dalang St., Longhua, Bao'an, Shenzhen, Guangdong, China
Model/Type reference.....:	**(DR)KB-BT-001,KB-P6-BT,KB-3-BT,KB-BTF1/F2/F3-B/W,KB-BT3/BT4**
Ratings.....:	1.5VDC from battery

Name and address of the testing laboratory : Shenzhen BCTC Technology Co.,Ltd.

A. Floor 3, 44 Building, Tanglang Industrial Park B,
Taoyuan Street, Nanshan District, Shenzhen, China

Date of Test: **Nov. 15, 2013**

Prepared by(Engineer) : Jeff Fu

Reviewer(Quality Manager) : Sophie Lee

Approved&Authorized Signer(Manager) : Casey Wang

SHENZHEN BCTC TECHNOLOGY CO., LTD. APPROVED

Artwork of marking plate

Bluetooth keyboard

Model : (DR)KB-BT-001,KB-P6-BT,KB-3-BT,KB-BTF1/F2/F3-B/W
KB-BT3/BT4
1.5VDC ⎓

Gembird Europe B.V.

1. The above marking plate is only a draft artwork to show the product ratings, model name.

Possible test case verdicts:

- test case does not apply to the test object ..... : N (N/A)
- test object does meet the requirement ..... : P (Pass)
- test object does not meet the requirement ..... : F (Fail)

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Note: This TRF includes EN Group Differences together with National Differences and Special National Conditions, if any. All Differences are located in the Appendix to the main body of this TRF.

Throughout this report a comma is used as the decimal separator.

General product information:

N/A

EN 62479		
Clause	Requirement – Test	Verdict
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Compliance criteria	
4.1	General considerations	P
	Compliance of electromagnetic emissions from eiectronic and electrical equipment with the basic restrictions usually is determined by measurements and, in some cases, calculation of the exposure level. If tbe electrical power used by or radiated by the equipment is sufficiently low, the electromagnetic fields emitted will be incapable of producing exposures that exceed the basic restrictions. This standard provides simple EMF assessment procedures for this low power equiprnent. Any relevant compliance assessment procedure which s consistent with the state of the art, reproducible and gives valid results can be used. For transmitters intended for use with more than one antenna configuration option, the combination of transmitter and antenna(s) which generates the highest available antenna power and/or average total rachated power shatl be assessed. Four routes, as illustrated in Figure 1 and described as follows, can be used to demonstrate compliance with this standard: A Typical usage. installation and the physical characteristics of equipment make it inherently compliant with the applicable EMF exposure levels such as those listed in the bibliography. This low-power equipment includes unintentional (or non-intentional) radiators, for example incandescent light bulbs and audio/visual (A/V) equipment, information technology equipment (ITE) and multimedia equipment (MME) that does not contain radio transmitters. B The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in 4.2, C The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in 4.2. D Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in 4.2. If none of these routes can be used, then the equipment is deemd to be out of the scope of this standard and EMF assessment for conformity assessment purposes shall be made according to other standards, such as IEC 62311 or other EMF product standards.	P
4.2	Low-power exclusion level(Pmax)	P

EN 62479		
Clause	Requirement – Test	Verdict
	Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C, or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level Pmax. For wireless devices operated closed to a person's body with available antenna powers and/or average total radiated powers higher than the Pmax values given in Annex A, the alternative Pmax values described in Annex B can also be used For low-power equipment using pulsed signals, other limits may apply in addition to those considered in Annex A and Annex B. Both icnirp guidelines and IEEE standards [2],[3] have specific restrictions on exposures to pulsed fields, and the requirements of those standards with respect to exposure to pulses shall be met.	P
4.3	Expose to multipe transmitting sources	N
	If an equipment under test is equipped with multipe intenational radiators, the overall conformity assessment might require more than just the assessment of conformity of each one of the radiators separately. The effect of multipe intenational radiators should be considered in the conformity assessment process	N

From results of report BCTC-13041199 can be assumed that the compliance criteria is fulfilled (max. radiated power is less than 20mW). The assumption is made with an uncertainty of 30%.

*EN 62479: 2010"4.1(D) & 4.2

Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in 4.2(Pmax: 20mW).

ANNEX A:

Photo-documentation

Photo 1

Photo 2

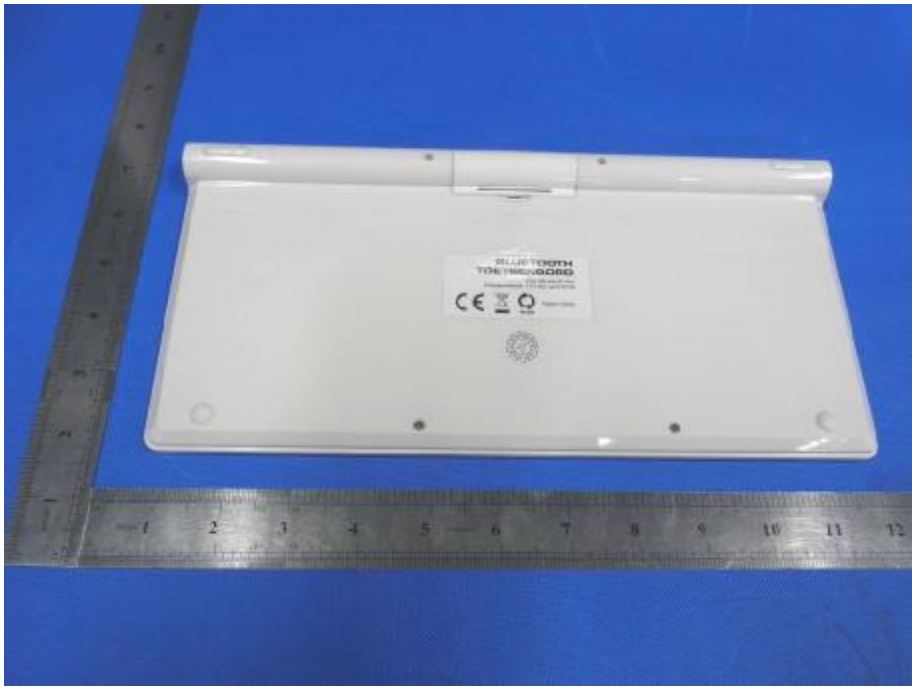


Photo 3

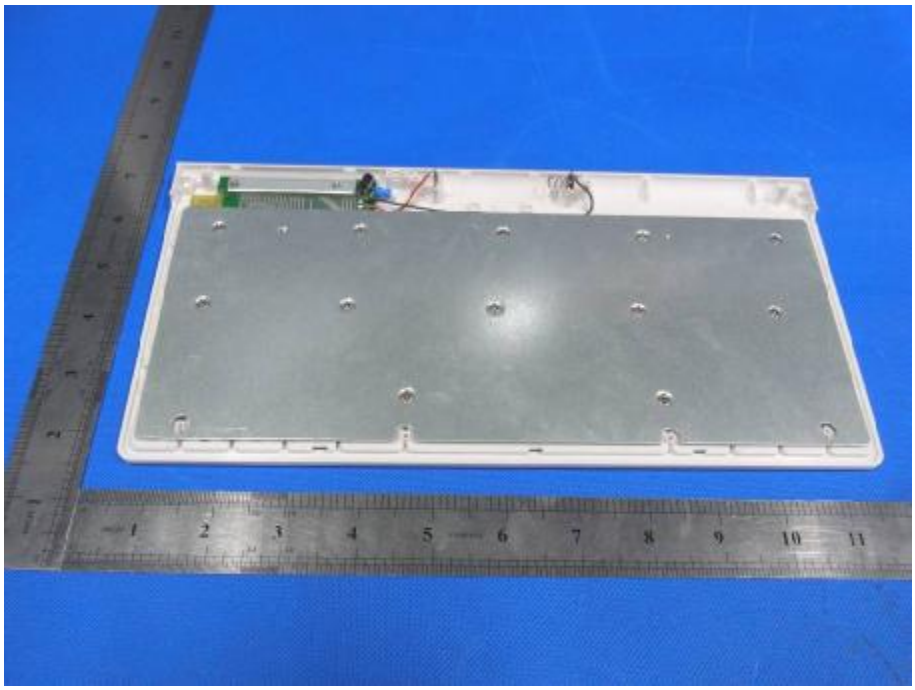


Photo 4

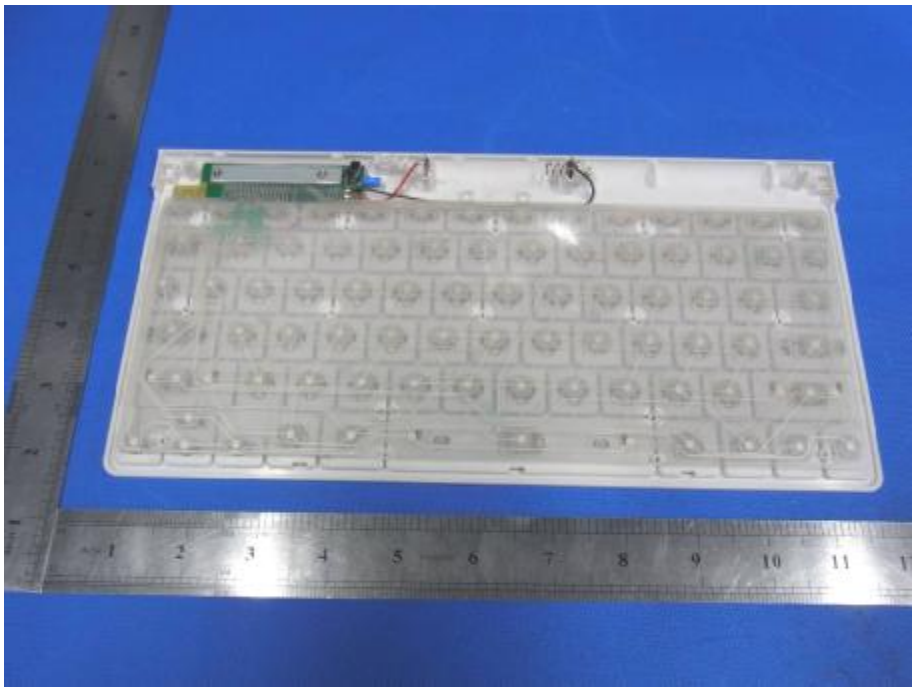


Photo 5

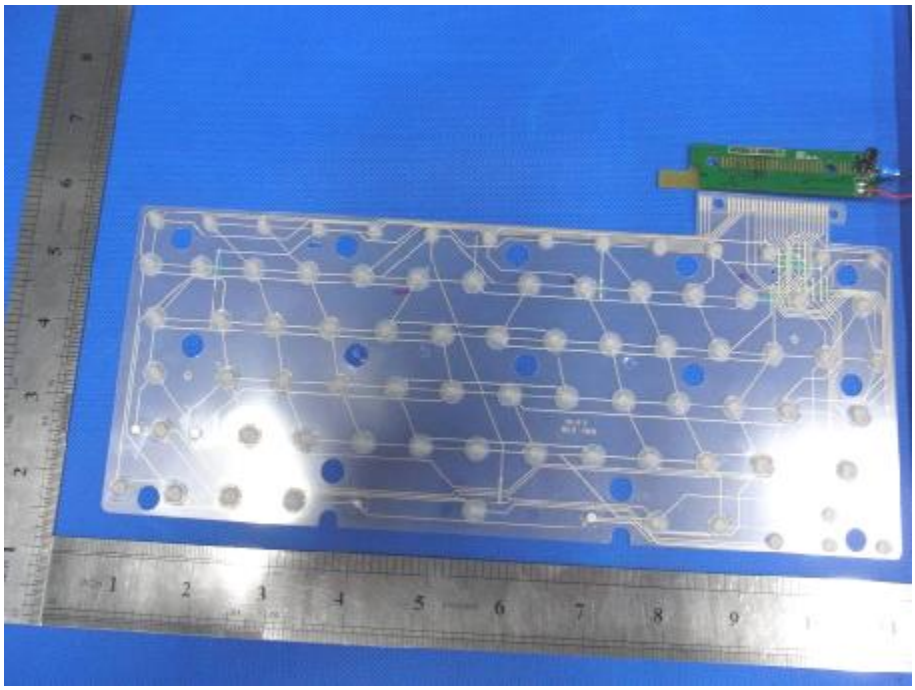
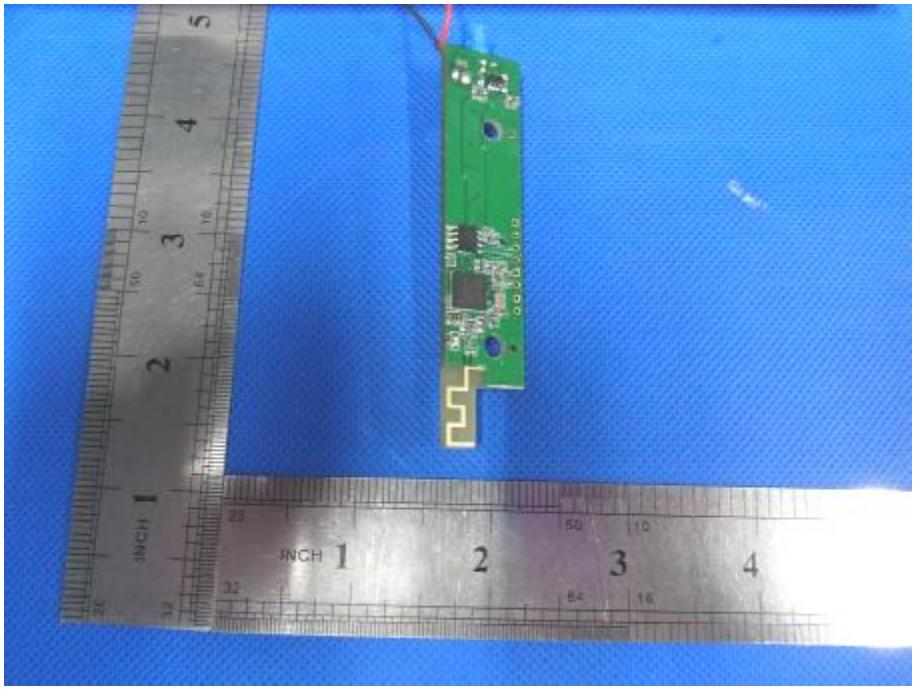


Photo 6



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