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RF Exposure Evaluation Report

Product

: Chipper BT

Trade mark Model/Type reference **Serial Number Report Number** FCCID Date of Issue **Test Standards**

BBPOS

Chipper BT •

: N/A

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- : EED32I00206703
- : 2AB7X-CHIPPERBT
- Aug. 29, 2016

PASS

47 CFR Part 1.1307 (2015) 47 CFR Part 2.1093 (2015) KDB447498D01 v06

Test result

Prepared for: **BBPOS International Limited** Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK

> Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668

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Check No.: 2392182047

Aug. 29, 2016

Kevin yang (Reviewer)



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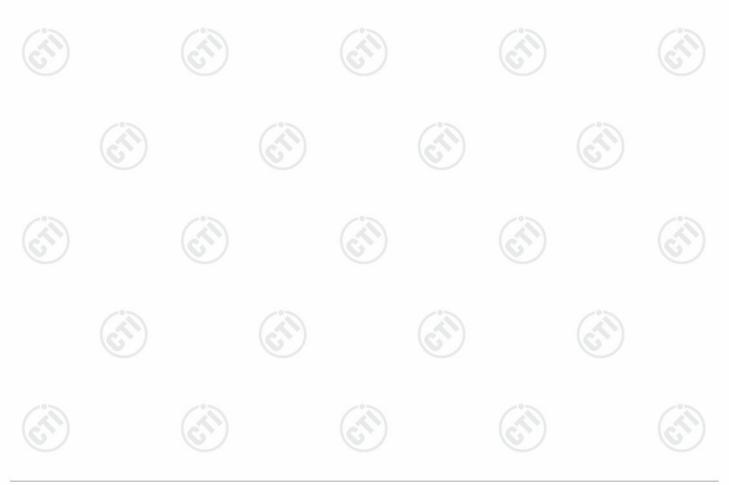


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4 General Information

4.1 Client Information

Applicant:	BBPOS International Limited
Address of Applicant:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK
Manufacturer:	BBPOS International Limited
Address of Manufacturer:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK
Factory:	BBPOS International Limited
Address of Factory:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK

4.2 General Description of EUT

Product Name:	Chipper BT		(3
Model No.(EUT):	Chipper BT	(\mathcal{C})	6
Trade Mark:	BBPOS	\smile	\bigcirc
EUT Supports Radios application:	2402MHz-2480MHz		
Power Supply:	Lithium battery:3.7V, 125mAh	(
USB cable:	150mm(Unshield)		

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz	13
Type of Modulation:	GFSK	6
Sample Type:	Portable production	\sim
Test Power Grade:	N/A(manufacturer declare)	
Test Software of EUT:	BTChipper-1.00.00.02.exe (manufacturer declare)	
Max Conducted Output Power:	0.647dBm	
Antenna Type:	Printed Antenna	
Antenna gain:	4dBi	-07
Sample Received Date:	Jul. 20, 2016	
Sample tested Date:	Jul. 20, 2016 to Aug. 29, 2016	C
The tested sample and the	e sample information are provided by the client.	





4.4 Test Location

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All tests were performed at: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101 Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385 No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..



A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in

(1)



accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.



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Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.



5 SAR Evaluation

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5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 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 Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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



[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] ≤ 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 calculation¹⁷ The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Output Power is 0.647dBm in highest channel(2.402GHz);

0.647dBm logarithmic terms convert to numeric result is nearly 1.16mW

According to the formula:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}]$

(2)

General RF Exposure = (1.16mW / 5 mm) x $\sqrt{2.402GHz}$ = 0.36(1)

SAR requirement:

- S= 3.0
- 1 < 2.

So the SAR report is not required.











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Refer to Report No. EED32I00206701 for EUT external and internal photos.

*** End of Report ***

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