RF Exposure Evaluation Report

Product	:	318MHz Transmitter
Trade mark	:	N/A
Model/Type reference	:	WB-602
Serial Number	:	N/A
Report Number	:	EED32R80013702
FCC ID	:	KUTWB602
Date of Issue	:	Jan. 22, 2025
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result	:	PASS

Prepared for:

Capital Prospect Ltd
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Prepared by:

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Date: Jan. 22, 2025

Check No.: 1519030125

1 Version

Version No.	Date	Description
00	Jan. 22, 2025	Original

2 Contents

3 General Information

3.1 Client Information

Applicant:	Capital Prospect Ltd
Address of Applicant:	Rm 03, 13/F, Block B, Veristrong Ind Bdg 34-36, Au Pui Wan Street, Fo Tan, NT, Hong Kong
Manufacturer:	Capital Prospect Ltd
Address of Manufacturer:	Rm 03, 13/F, Block B, Veristrong Ind Bdg 34-36, Au Pui Wan Street, Fo Tan, NT, Hong Kong

3.2 General Description of EUT

Product Name:	318MHz Transmitter
Model No.(EUT):	WB-602
Trade Mark:	N/A

3.3 Product Specification subjective to this standard

Frequency Range:	318MHz	
Modulation Type:	OOK	
Test Power Grade:	Default	
Antenna Type:	Integral Antenna	
Power Supply:	Battery:	DC 3V
Sample Received Date:	Jan. 08, 2025	
Sample tested Date:	Jan. 08, 2025 to Jan. 11, 2025	

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).
This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\text{ cm}}(d/20\text{ cm})^{x} & d \le 20\text{ cm} \\ ERP_{20\text{ cm}} & 20\text{ cm} < d \le 40\text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\text{ cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\text{ cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\text{ GHz} \le f < 1.5\text{ GHz} \\ 3060 & 1.5\text{ GHz} \le f \le 6\text{ GHz} \end{cases} \qquad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Estimation distance (mm)	Max. E-field strength (dBuV/m)	EIRP (dBm)	Max. Tune-up EIRP (dBm)	Max. Tune-up ERP (dBm)	Max. Tune-up ERP (mW)	Limit (mW)	Result
318	＜5	65.67	-29.56	-29.00	-31.15	0.0008	22	Pass

Note：

①EIRP=conducted power+antenna gain；

②ERP=EIRP-2.15;

③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) - 95.23;

④ERP(mW) = 10^(ERP (dBm)/10);

⑤The estimation distance is ＜5mm;

⑥The test data please refer to the report of EED32R80013701 and only the worst case data was recorded in the report.

⑦According to KDB 447498 D01 v06, Appendix A, SAR Test Exclusion Threshold for < 5mm test distance is 22mW for for fundamental frequency between 300 - 450MHz.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated,the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

5. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***