

Nemko Korea Co., Ltd.

165-51, Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Republic of Korea

TEL: +82 31 330-1700

FAX: +82 31 322 2332

FCC EVALUATION REPORT FOR CERTIFICATION

Project No. : NK-26-R-130**Dates of receipt :** March 25, 2026**Applicant :** MEVERTEC Inc.**Dates of Issue :** July 23, 2026#1042, 10F, 33, Sagimakgol-ro 62beon-gil,
Jungwon-gu, Seongnam-si, Gyeonggi-do,
Korea, Republic of**Test Site :**

Nemko Korea Co., Ltd.

FCC ID :

2BW2S-EZPEN2LC

Applicant :

MEVERTEC Inc.

Brand Name :**Model:**

EZPEN2L

Additional Model(s):

-

EUT Type:

EZpen 2 Lite

Classification:

FCC Part 15

Low Power Transmitter Below 1705 kHz

Date of Test:

July 11, 2026

Applied Standard:

FCC Part 1 Subpart I

FCC Part 2 Subpart J

The device bearing the brand name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020. The client should not use it to claim product endorsement by TAF or any government agencies. The test results in the report only apply to the tested sample.

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



Tested By : Hyeonseung Lee

Test Engineer



Reviewed By : Hoonpyo Lee

Technical Manager

Revision History

Rev.	Issue Date	Revisions	Revised By
00	July 23, 2026	Initial issue	Hyeonseung Lee

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1. INTRODUCTION

1.1 Test facility

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2014), the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2020) was used in determining radiated and conducted emissions emanating.

These measurement tests were conducted at **Nemko Korea Co., Ltd.**

The site address 165-51, Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Rep. of Korea.

1.2 Accreditation and listing

Accreditation type		Accreditation number
	CAB Accreditation for DOC	Designation No. KR0026
	KOLAS Accredited Lab. (Korea Laboratory Accreditation Scheme)	Registration No. KT155
	Canada IC Registered site	Site No. 29506
	VCCI registration site(RE/CE/Telecom CE)	Member No. 2118
	EMC CBTL	TL124
	KCC(RRL)Designated Lab.	Registration No. KR0026

2. EUT INFORMATION & TEST CONDITIONS

2.1 EUT Information

2.1.1 Specifications

EUT Type	EZpen 2 Lite
Model Name	EZPEN2L
Frequency of Operation	200.5 kHz
Modulation type	ASK
Antenna Specification	Internal type
EUT Rated Voltage	USB-C Adaptor : DC 5 V
Test Voltage	DC 5 V (USB-C Adaptor : AC 120 V, 60 Hz)
Remarks	-

2.2 Operation During Test

During the test, the Bluetooth Pen was charged on the EUT to ensure continuous measurement of the wireless charging signal.

2.2.1 Worst-case Configuration and Mode

The EUT was tested in mobile mode in the following configurations:

Test Configuration	Test Frequency	Description
1	200.5 kHz	DUT is powered by switching power adaptor. No WPT client used. (Stand-by mode)
2	200.5 kHz	DUT is powered by switching power adaptor. Direct contact during charging between the EUT and Bluetooth Pen

Note 1. EUT is only used for wireless charging of X-ray detectors manufactured by DRTECH Corporation.

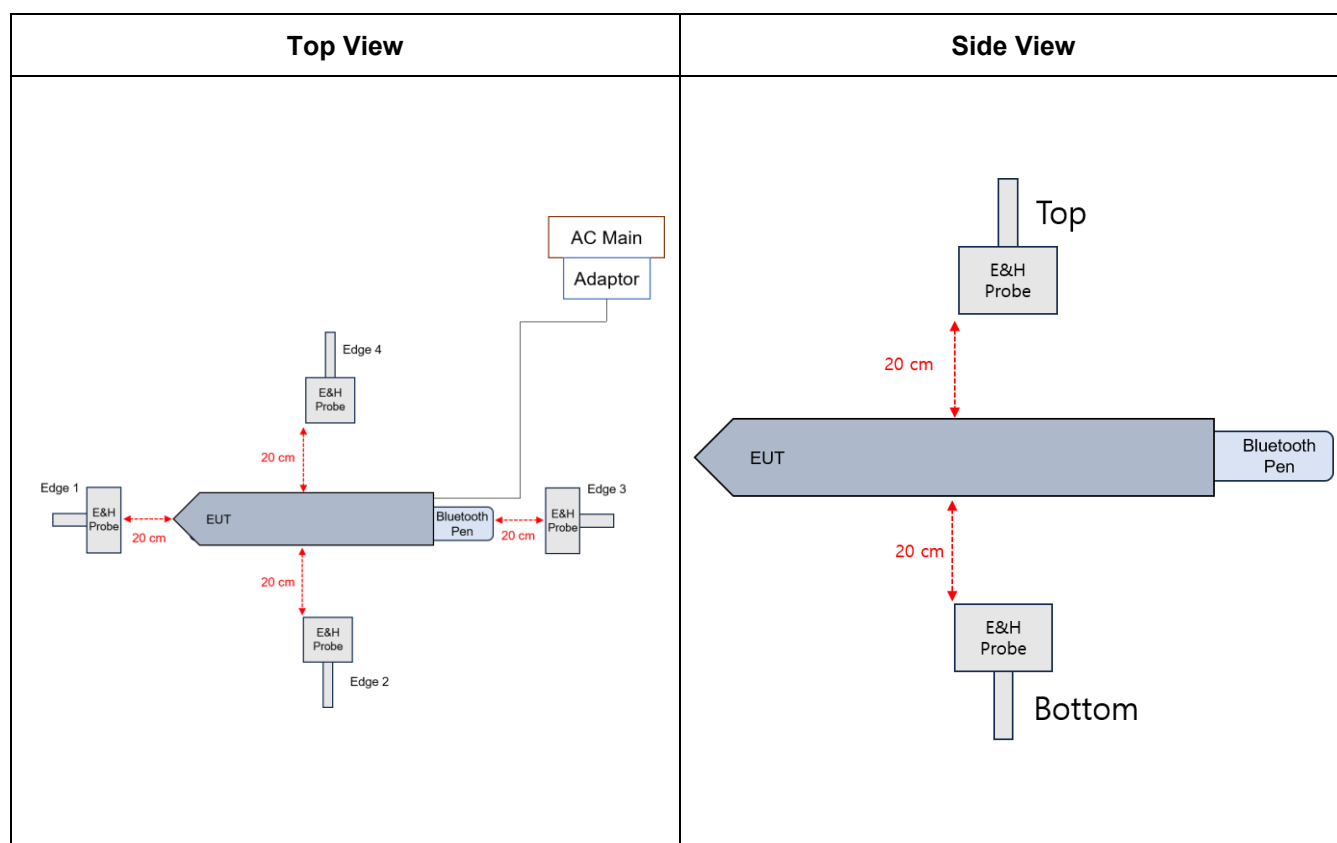
2.2.1 KDB 680106 D01 SECTION 2 EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Device
(1) Devices authorized under Part 15 may not operate in the 90-110 kHz band.	Comply. The operating frequency is 200.5 kHz.
(2) Under §15.205(a), only spurious emissions are permitted in any of the restricted frequency bands.	Comply.
(3) When communication is part of the design, both Part 15 and Part 18 requirements, as applicable, must be met for equipment authorization purposes. Similarly, devices that use a secondary frequency for load management, control, and data functions must be authorized according to both Part 15 and Part 18 requirements, as appropriate.	Not applicable. Applies only to Part 15.

2.3 Support Equipment

EUT	MEVERTEC Inc. Model : EZPEN2L (Cradle)	S/N: N/A Identical Proto-type
AC/DC ADAPTOR	SAMSUNG Model : EP-TA800 001	S/N : N/A
Bluetooth Pen	MEVERTEC Inc. Model : EZPEN2L (Bluetooth Pen)	S/N: N/A Identical Proto-type

2.4 Setup Drawing



Note 1. Measurements were taken using a probe placed 20 cm around the device.

3. TEST METHODOLOGY

1. FCC CFR 47 Part 1.1310, Part 2.1091, Part2.1093.
2. KDB 447498 D01 General RF Exposure Guidance v06.
3. KDB 447498 D03 Supplement C Cross-Reference v01.
4. KDB 680106 D01 Wireless Power Transfer v04.

4. DESCRIPTION OF TESTS

4.1 Maximum Permissible RF Exposure

Limits

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

Table 1 to § 1.1310(e)(1)—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density

According to KDB 680106 D01 Wireless Power Transfer v04, Section 3.2 Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of section 1.1310.

(Electric field strength: 614 V/m, Magnetic field strength: 1.63 A/m)

5. TEST DATA

5.1 Maximum Permissible RF Exposure

E-Field & H-Field MEASUREMENTS

Note: Peak measurements were performed. RMS values were calculated from the peak measurement.

Please refer to the formula for calculating the RMS values: [Field Strength x $\sqrt{\text{Duty Cycle}}$].

Additional test was performed in each Test mode by moving the probe surrounding the device to find the maximum exposure.

Test Result of Test Configuration 1: WPT on Stand-by

Frequency (kHz)	Position	Test Distance (cm)	Client Battery State	Measured Electric Field (V/m)	Electric Field Limit (V/m)	Measured Magnetic Field (A/m)	Magnetic Field Limit (A/m)
200.5	Front	20	-	0.357	614	0.168	1.63
	Rear	20	-	0.345	614	0.167	1.63
	Edge 1	20	-	0.332	614	0.166	1.63
	Edge 2	20	-	0.334	614	0.167	1.63
	Edge 3	20	-	0.294	614	0.169	1.63
	Edge 4	20	-	0.358	614	0.166	1.63

Test Result of Test Configuration 2: Operating mode with Client device(Bluetooth Pen)

Frequency (kHz)	Position	Test Distance (cm)	Client Battery State	Measured Electric Field (V/m)	Electric Field Limit (V/m)	Measured Magnetic Field (A/m)	Magnetic Field Limit (A/m)
200.5	Front	20	< 15 %	0.704	614	0.166	1.63
	Rear	20	< 15 %	0.458	614	0.169	1.63
	Edge 1	20	< 15 %	0.850	614	0.167	1.63
	Edge 2	20	< 15 %	0.648	614	0.168	1.63
	Edge 3	20	< 15 %	0.314	614	0.166	1.63
	Edge 4	20	< 15 %	0.639	614	0.166	1.63
	Front	20	= 50 %	0.626	614	0.167	1.63
	Rear	20	= 50 %	0.292	614	0.168	1.63
	Front	20	> 85 %	0.491	614	0.165	1.63
	Rear	20	> 85 %	0.298	614	0.166	1.63

Test Summary of Results

Electric Field Limit			Magnetic Field Limit		
Maximum Measured Data (V/m)	RF Exposure (V/m)	Percentage (%)	Maximum Measured Data (A/m)	RF Exposure (A/m)	Percentage (%)
0.850	614	0.14	0.169	1.63	10.37
Conclusion: E-Field & H-Field result are less than 50% of the MPE Limit.					

6. TEST EQUIPMENT

No.	Instrument	Manufacture	Model	Serial No.	Calibration Date	Next Calibration Date
1	DIGITAL MULTIMETER	EZ DIGITAL	DM-334	2111395	2025-10-02	2026-10-02
2	Humidity Temperature Recorder	Lutron	MHB-382SD	AK.26553	2025-10-20	2026-10-20
3	Electric and Magnetic Field Probe	Narda	EHP-200AC	180ZX00639	2025-10-24	2026-10-24

END REPORT