

Nemko Korea Co., Ltd.

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

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FCC EVALUATION REPORT FOR CERTIFICATION

Project No. : NK-23-R-354**Dates of receipt :** November 17, 2023**Applicant :** BASMANtechnology**Dates of Issue :** November 24, 2023

#661, 150, JOJEONG-DAERO, HANAM-

Test Site :

SI, GYEONGGI-DO, 12930, South Korea

Nemko Korea Co., Ltd.

FCC ID:

2BDA8-BLB-AA1970B

Applicant :

BASMANtechnology

Brand Name

-

Model:

BLB-AA1970B

Additional Model(s):

-

EUT Type:

Second Battery

Classification:

Digital Transmission Systems (DTS)

Date of Test:

-

Applied Standard:

KDB 447498 D01

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 C63.10-2013. 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 : Yonghwan Kim

Test Engineer



Reviewed By : Hoonpyo Lee

Technical Manager

Revision History

Rev.	Issue Date	Revisions	Revised By
00	November 24, 2023	Initial issue	Yonghwan Kim

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1. INTRODUCTION

1.1 Location

Nemko Korea Co.,Ltd
165-51, Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Republic of Korea.
Phone : 82-31-330-1700 Fax : 82-31-322-2332

1.2 Accreditation and listing

Accreditation type		Accreditation number
	CAB Accreditation for DOC	Designation No. KR0026

2. EUT INFORMATION

2.1 Specifications

EUT Type	Second Battery
Model Name	BLB-AA1970B
Frequency of Operation	2 402 MHz ~ 2 480 MHz
Output Power (Conducted)	-2.95 dBm
Number of Channels	40 CH
Modulations	GFSK
Antenna Gain (peak)	1.0 dBi
Antenna Setup	1TX / 1RX
EUT Rated Voltage	3.3 Vdc
Remarks	The above RF information of EUT is referred to the RF test report. Report No. 23-068261-01-1a / KTL

3. Maximum Permissible Exposure

RF Exposure Limit

According to KDB 447498D01 v06:

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

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]}{\sqrt{f(\text{GHz})}} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

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

Device category	: Portable device
Transmitting mode	: Single transmitting
Max. transmitting frequency	: 2 480 MHz
Min. test separation distance	: 5 mm
Max. Antenna Gain	: 1.0 dBi
Max. Average power	: -2.95 dBm
Max. power with turn-up tolerance	: -1.00 dBm
	0.79 mW

For this device:

$$0.79 \text{ mW}[\text{maximum average output power}]/5 \text{ mm}[\text{minimum separation distance}] \times \sqrt{2.48 \text{ GHz}} = 0.25$$

Note. The calculation result was rounded to one decimal place for comparison.

Test Result :

This is less than 3.0 for 1-g SAR.

SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

END REPORT