



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr		Report No.: KR26-SRF0094-A Page (1) of (10)	KCTL
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1. Client

- Name : Blue Tees Enterprises LLC
- Address : 440 N Barranca Ave #2997 Covina, CA 91723 United States
- Date of Receipt : 2026-01-26

2. Use of Report : Certification

3. Name of Product / Model : Rainmaker / LM-RR-N-G

4. Manufacturer / Country of Origin : Blue Tees Enterprises LLC / Korea

5. FCC ID : 2BNCJLMRR

6. IC Certificate No. : 28315-LMRR

7. Date of Test : 2026-02-05 to 2026-04-03

8. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

9. Test method used : 47 CRF Part 1.1310
 RSS-102 Issue 6 December 2023

10. Test Result : Refer to the test result in the test report

Affirmation	Tested by	Technical Manager
	Name : Minjung Kim (Signature)	Name : Kwonse Kim (Signature)

2026-05-14

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

REPORT REVISION HISTORY

Date	Revision	Page No
2026-05-06	Originally issued	-
2026-05-14	Updated	10

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Note. The report No. KR26-SRF0094 is superseded by the report No. KR26-SRF0094-A.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

CONTENTS

1. General information4

2. Device information4

2.1. Frequency/channel operations.....5

3. Measurement uncertainty5

4. RF Exposure.....6

4.1. Test results.....9



1. General information

Client : Blue Tees Enterprises LLC
 Address : 440 N Barranca Ave #2997 Covina, CA 91723 United States
 Manufacturer : Blue Tees Enterprises LLC
 Address : 440 N Barranca Ave #2997 Covina, CA 91723 United States
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040
 ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Rainmaker
 Model : LM-RR-N-G
 Modulation technique : GFSK (Bluetooth Low Energy)
 CW (24 GHz radar sensor)
 Number of channels : 40 ch (Bluetooth Low Energy)
 1 ch (24 GHz radar sensor)
 Power source : DC 3.85 V (Battery)
 Antenna specification : Dielectric Chip Antenna (Bluetooth Low Energy)
 PCB Array Antenna (24 GHz radar sensor)
 Antenna gain : 1.80 dBi (Bluetooth Low Energy)
 8.05 dBi (24 GHz radar sensor)
 Frequency range : 2 402 MHz ~ 2 480 MHz (Bluetooth Low Energy)
 24 050 MHz ~ 24 250 MHz (24 GHz radar sensor)
 Software version : 1.40
 Hardware version : v1.0
 Test device serial No. : VCRA00ES20000002, VCRA00ES20000010, VCRA00ES20000013,
 VCRA00ES20000003, VCRA00ES20000042
 Operation temperature : -10 °C ~ 50 °C

2.1. Frequency/channel operations

This device contains the following capabilities:

Bluetooth Low Energy, 24 GHz radar sensor

Ch.	Frequency (MHz)
00	2 402
.	.
19	2 440
.	.
39	2 480

Table 2.1.1. Bluetooth Low Energy

Ch.	Frequency (GHz)
0	24.099

Table 2.1.2 24 GHz Radar

3. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014+C63.4a-2017.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty ($\pm$)
Conducted RF power	0.9 dB

4. RF Exposure

FCC

Regulation

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC rules and Regulations.

The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310, is listed in Table 1-1. According to FCC §1.1310: the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b).

Table 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 [minute]
(A) 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 ~ 15 000	/	/	5	6
(B) 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/1 500	30
1 500 ~ 15 000	/	/	1.0	30

f=frequency in MHz, * = plane-wave equivalent power density

Per the guidance of KDB 680106, the E-field and H-field limits shown in the table above are extended down to 100 kHz

IC

RF Field strength and power density limits for devices used by the general public (uncontrolled environment)

Frequency Range (MHz)	Electric Field (V _{RMS} /m rms)	Magnetic Field (A _{RMS} /m)	Power Density (W/m ²)	Reference Period (minutes)
10-20	27.46	0.072 8	2	6
20-48	58.07 / $f^{0.25}$	0.154 0 / $f^{0.25}$	8.944 / $f^{0.5}$	6
48-300	22.06	0.058 52	1.291	6
<u>300-6 000</u>	<u>3.142 $f^{0.341\ 7}$</u>	<u>0.008 335 $f^{0.341\ 7}$</u>	<u>0.026 19 $f^{0.683\ 4}$</u>	<u>6</u>
6 000-15 000	61.4	0.163	10	6
<u>15 000-150 000</u>	<u>61.4</u>	<u>0.163</u>	<u>10</u>	<u>616 000/$f^{1.2}$</u>
150 000-300 000	0.158 $f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	616 000/ $f^{1.2}$

Note: f is frequency in MHz.

RF field strength and power density limits for controlled-use devices (controlled environment)

Frequency Range (MHz)	Electric Field (V _{RMS} /m rms)	Magnetic Field (A _{RMS} /m)	Power Density (W/m ²)	Reference Period (minutes)
10-20	61.4	0.163	10	6
20-48	129.8 / $f^{0.25}$	0.344 4 / $f^{0.25}$	44.72 / $f^{0.5}$	6
48-100	49.33	0.130 9	6.455	6
100-6 000	15.60 $f^{0.25}$	0.041 38 $f^{0.25}$	0.645 5 $f^{0.5}$	<u>6</u>
6 000-15 000	137	0.364	50	6
15 000-150 000	137	0.364	50	616 000/ $f^{1.2}$
150 000-300 000	0.354 $f^{0.5}$	$9.40 \times 10^{-4} f^{0.5}$	$3.33 \times 10^{-4} f$	616 000/ $f^{1.2}$

Note: f is frequency in MHz.

For both table 7 and table 8, refer to Health Canada's Safety Code 6 for relevant notes and additional information.

Field reference level exposure exemption limits

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

4.1. Test results

FCC

MPE (Maximum Permissible Exposure) Prediction

Predication of MPE limit at a given distance: Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2 \quad (\Rightarrow R = \sqrt{PG/4\pi S})$$

S = power density [mW/cm^2]

P = Power input to antenna [mW]

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna [cm]

Calculation Result of RF exposure

Maximum tune-up tolerance

Channel	Frequency [MHz]	Max Tune-up Power [dBm]	Max Tune-up Power [mW]	Ant Gain [dBi]	Power density at 20 cm [mW/cm^2]	Limit [mW/cm^2]
Bluetooth Low Energy (1Mbps)	2 402	-3.00	0.50	1.80	0.000 15	1.00
24 GHz radar sensor	24 099	-9.00	0.13	-	0.000 03	1.00

Notes:

- The calculation was performed using the source-based time-averaged power.
- The values from the test reports are measured in Radiated as $\text{dB}\mu\text{V}/\text{m}$ with Antenna gain correction and corrected to be EIRP in dBm by using the following formula:
 $\text{EIRP}(\text{dBm}) = E(\text{dB}\mu\text{V}/\text{m}) - 95.23$

Simultaneous Transmission Analysis

Operation Mode	Frequency [MHz]	Power Density [mW/cm^2]	Ratio	Ratio Limit
Bluetooth Low Energy (1Mbps)	2 440	0.000 15	0.000 15	≤ 1.00
24 GHz radar sensor	24 099	0.000 03	0.000 03	
Summation (Bluetooth Ratio + 24 GHz Ratio)			0.000 18	

Notes:

- The Ratio for simultaneous transmission is calculated by summing the individual exposure ratios (Power density / Limit) of each operating frequency (BLE and 24 GHz radar sensor).
- The calculated ratio is 0.000 18, which is well below the limit of ≤ 1.0 , demonstrating full compliance.

IC RF Exposure evaluation

Calculation Result of Field reference level (FRL)

Mode	Frequency [MHz]	Max Tune up power [dBm]	Ant Gain [dBi]	E.I.R.P [dBm]	E.I.R.P [W]	Limit [W]
Bluetooth Low Energy (1Mbps)	2 440	-3.00	1.80	-1.20	0.000 76	2.68
24 GHz radar sensor	24 099	-9.00	-	-9.00	0.000 13	5.00

Notes:

- e.i.r.p. (dBm) = Conducted output power(dBm) + Antenna gain(dBi)
- Limit (W) = $(1.31 \times 10^{-2} f^{0.6834})$, f is in MHz
- The values from the test reports are measured in Radiated as dBμV/m with Antenna gain correction and corrected to be EIRP in dBm by using the following formula:
 $EIRP(dBm) = E(dB\mu V/m) - 95.23$

Simultaneous Transmission Analysis

Operation Mode	Frequency [MHz]	E.I.R.P [W]	Total exposure ratio	Ratio Limit
Bluetooth Low Energy (1Mbps)	2 440	0.000 76	0.000 28	≤1.00
24 GHz radar sensor	24 099	0.000 13	0.000 03	
Summation (Bluetooth Ratio + 24 GHz Ratio)			0.000 31	

Notes:

- The Ratio for simultaneous transmission is calculated by summing the individual exposure ratios (Power density / Limit) of each operating frequency (BLE and 24 GHz radar sensor).
- The calculated ratio is 0.000 31, which is well below the limit of ≤ 1.0, demonstrating full compliance.

End of test report