

EMF TEST REPORT

Test Report No. : OT-264-RWD-033

Reception No. : 2602000614

Applicant : TELICA Inc.

Address : Tower A-411, 40 Imi-ro, Uiwang-Si, Gyeonggi-do, 16006, South Korea

Manufacturer : TELICA Inc.

Address : Tower A-411, 40 Imi-ro, Uiwang-Si, Gyeonggi-do, 16006, South Korea

Type of Equipment : Zigbee Module

FCC ID. : 2BN7U-MS200

Model Name : MS-R1E-XSX

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : February 06, 2026

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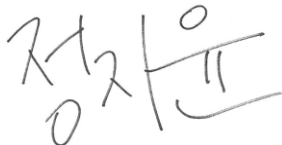
SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 2.1093**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).



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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-264-RWD-033	April 09, 2026	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : TELICA Inc.
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Telephone No. : +82-10-9580-1067
FCC ID : 2BN7U-MS200
Model Name : MS-R1E-XSX
Brand Name : -
Serial Number : N/A
Date : April 09, 2026

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Zigbee Module
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D04 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The TELICA Inc., Model MS-R1E-XSX (referred to as the EUT in this report) is a Zigbee Module. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Zigbee Module
OPERATING FREQUENCY	2 405 MHz ~ 2 480 MHz
MODULATION TYPE	DSSS
RF OUTPUT POWER	-1.13 dBm
ANTENNA TYPE	Metal Antenna
ANTENNA GAIN	2.26 dBi
List of each Osc. or crystal Freq.(Freq. $\geq$ 1 MHz)	40 MHz
RATED SUPPLY VOLTAGE	DC 3.30 V

2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

3. EUT MODIFICATIONS

-. None

4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 RF Exposure Calculation

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to the procedure, KDB 447498 D04, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

4.2 EUT Description

Kind of EUT	Zigbee Module
Device Category	☐ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☒ Others
Exposure Evaluation Applied	☐ MPE ☐ SAR ☒ N/A

4.3 Calculated RF Exposure for Portable Devices

According to above equation, the following result was obtained.

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}]$$

$$= (1.88/5) \times \sqrt{2.440} = 0.588 < 3$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Antenna Gain (dBi)	E.I.R.P power (dBm)	E.I.R.P power (mW)	Separation distance (mm)	RF exposure
2 440.00	-1.13 ± 1.0	-0.13	2.88	2.75	1.88	5	0.588