RSS-102 issue 6

MPE EVALUATION REPORT

For

Renesas Design Korea Inc.

IC：34654-RRQ61051009

Model：RRQ61051-009

Report Type：Original Report	**Product Name**：RRQ61051 Module

Report Number： **RLK250801005RF11**

Report Date： **2026-01-20**

Prepared By：**Bay Area Compliance Laboratories Corp. (Linkou Laboratory)**
No. 6, Wende 2Rd., Guishan Dist.,
Taoyuan City 33382, Taiwan (R.O.C.).
Tel：+886 (3) 3961072
Fax：+886 (3) 3961027
www.bacl.com.tw

Facilities：**The test site used by Bay Area Compliance Laboratories Corp. (Linkou Laboratory) to collect test data is located on No. 6, Wende 2Rd., Guishan Dist., Taoyuan City 33382, Taiwan (R.O.C.).**

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Statement of Compliance

Applicant (Certification Holder)	Renesas Design Korea Inc.
	7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, 13486
Brand (Trade) Name	Renesas
Product (Equipment) Name	RRQ61051 Module
Model Name	RRQ61051-009

Measurement Procedures and Standards Used:

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☒ C95.3

The measurement results in this report were performed at Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (Linkou Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

Report Issued Date ： 2026-01-20

Reviewed By ： Jack Hsu Jack Hsu

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RLK250801005	RLK250801005RF11	2026-01-20	Original Report	Cedric Xu

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1. General Information

Product Description for Equipment under Test (EUT)

Product Name	RRQ61051 Module
Main Model Name	RRQ61051-009
Series Model Name	RRQ61051-010
Model Differences	Different antenna interfaces
Frequency Range	BLE Mode: 2402 ~ 2480 MHz IEEE 802.11b/g/n HT20/ax HE20 Mode: 2412 ~ 2462 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5150 ~ 5250 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5250 ~ 5350 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5470 ~ 5725 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5725 ~ 5850 MHz
Modulation Technique	BLE Mode: GFSK IEEE 802.11a Mode: OFDM IEEE 802.11b Mode: DSSS IEEE 802.11g Mode: OFDM IEEE 802.11n HT20 Mode: OFDM IEEE 802.11ac VHT20 Mode: OFDM IEEE 802.11ax HE20 Mode: OFDMA
Antenna Specification	Dipole Antenna 2.4G Gain：3.3 dBi 5G Gain：4.4 dBi

**All measurement and test data in this report was gathered from production sample serial number: RLK250801005-01 (Assigned by BACL (Linkou Laboratory)).*
*** This product does Without 5.6GHz~5.65GHz.*
****This device cannot run both WIFI 2.4G and WIFI 5G simultaneously.*
*****802.11ax mode only support full RU*

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2. Summary of Test Result

Rules	Description of Test	Results
RSS-102 issue 6 section 6.6	Exemption Limit for routine evaluations	Compliance

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3. Exemption limits for routine evaluations

All transmitters are exempt from routine NS, SAR, APD, IPD and/or FRL exposure evaluations provided that they comply with the appropriate requirements specified in the following sections.

If the EUT does not meet the appropriate exemption limit, a complete NS, SAR, APD, IPD and/or FRL evaluation shall be performed.

3.1 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.

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4. MPE evaluation for transmission:

Mode	Freq. (MHz)	Tune-Up Power (dBm)	Ant. Gain (dBi)	EIRP Tune-Up Power (W)	Limit (W)
BLE(1M)	2402-2480	1.50	3.3	0.003	2.676
2.4G Wi-Fi	2412-2462	16.50	3.3	0.095	2.684
UNII-1	5180-5240	16.00	4.4	0.110	4.525
UNII-2A	5260-5320	17.00	4.4	0.138	4.573
UNII-2C	5500-5700	17.00	4.4	0.138	4.714
UNII-3	5745-5825	15.00	4.4	0.087	4.857

Note：

The tune up power was declared by applicant.

This product does not have any form of simultaneous transmission capability.

Result: Compliance.

******* END OF REPORT *******

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