

FCC Part 1.1310

RF Exposure Evaluation Report

For

FCC ID : 2AXAMWR315GM2

Model : WR315GR-2C-LTE6-GAX-EC

Report Type : Original Report

Product Name : Industrial Secure Cellular
Router

Report Number : **RXZ251023079SA05**

Report Date : **2026-07-28**

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Statement of Compliance

Applicant (Certification Holder)	WOM ASIA CO., LTD
	13F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei 231, Taiwan
Brand (Trade) Name	WoMaster
Product (Equipment) Name	Industrial Secure Cellular Router
Main Model Name	WR315GR-2C-LTE6-GAX-EC
Series Model Name	N/A
Model Discrepancy	N/A

Measurement Procedures and Standards Used:

- ☒ FCC Part 2.1091
- ☒ FCC Part 1.1310

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

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

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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. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

Report Issued Date : 2026-07-28

Reviewed By : Anson Lu 

Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ251023079	RXZ251023079SA05	2026.07.28	Original Report	Anson Lu

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Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.(New Taipei Laboratory)

1. General Information

Product Description for Equipment under Test (EUT)

WiFi :

Product Name	Industrial Secure Cellular Router
Frequency Range	WiFi 2.4GHz : 2412~2462 MHz WiFi 5GHz : UNII-1 : 5180 ~ 5240 MHz UNII-2A : 5260 ~ 5320 MHz UNII-2C : 5500 ~ 5700 MHz UNII-3 : 5745 ~ 5825 MHz
Maximum Conducted Output Power(dBm)	2.4GHz : 27.64 dBm 5GHz : 5180 ~ 5240 MHz : 17.84 dBm 5260 ~ 5320 MHz : 18.04 dBm 5500 ~ 5700 MHz : 18.05 dBm 5745 ~ 5825 MHz : 17.91 dBm
Modulation Technique	IEEE 802.11b Mode : DSSS IEEE 802.11g Mode : OFDM IEEE 802.11a Mode : OFDM IEEE 802.11n HT20 Mode : OFDM IEEE 802.11n HT40 Mode : OFDM IEEE 802.11ac VHT20/40/80/160 Mode : OFDM IEEE 802.11ax HE20/40/80/160 Mode : OFDMA
Antenna Specification	PCB Antenna 2.4GHz Gain : Ant. 0 : 4.4 dBi, Ant. 1 : 4.0 dBi 5GHz Gain : Ant. 0 : 4.9 dBi, Ant. 1 : 5.0 dBi

WWAN :

The device contains a certified WWAN module, FCC ID: 2AXAM8XM0004:

Mode	Frequency (MHz)	Conducted Tune-up Power (dBm)	Antenna gain (dBi)	Tune-Up ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
LTE B2	1850-1910	23	6.9	29.9	33
LTE B4	1710-1755	23	4.8	27.8	30
LTE B5	824-849	24	4.1	25.95	38.45
LTE B7	2500-2570	23	4.7	27.7	33
LTE B12	699-716	24	4.1	25.95	44.77
LTE B13	777-787	23	4.1	24.95	44.77
LTE B14	788-798	23	4.1	24.95	34.77
LTE B17	704-716	24	4.1	25.95	44.77
LTE B18	815-830	24	4.1	25.95	38.45
LTE B19	830-845	24	4.1	25.95	38.45
LTE B25	1850-1915	23	6.9	29.9	33
LTE B26	814-849	24	4.1	25.95	38.45
LTE B30	2305-2315	23	3.9	26.9	63
LTE B38	2570-2620	24	4.7	28.7	33
LTE B40	2305-2315	23	3.9	26.9	63
	2350-2360	23	3.9	26.9	63
LTE B41	2496-2690	24	4.7	28.7	33
LTE B66	1710-1785	23	4.8	27.8	30

Note:

Antenna gain is the maximum gain in LTE P1,P2,P3,P4

Antenna gain dBd=dBi-2.15

The above result is ERP for band below 1GHz, EIRP for band above 1GHz.

The device is a fixed station.

2. FCC§1.1310 - RF Exposure

Applicable Standard

According to subpart §1.1310 (a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in [§ 1.1307\(b\) of this part](#) within the frequency range of 100 kHz to 6 GHz (inclusive).

§1.1310 (d)(2) For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in [paragraph \(c\)\(1\)](#) of this section, may be used instead of whole-body SAR limits as set forth in [paragraphs \(a\)](#) through [\(c\)](#) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in [§ 1.1307\(b\) of this part](#), except for portable devices as defined in [§ 2.1093 of this chapter](#) as these evaluations shall be performed according to the SAR provisions in [§ 2.1093](#).

§1.1310 (d)(3) At operating frequencies above 6 GHz, the MPE limits listed in Table 1 in [paragraph \(c\)\(1\)](#) of this section shall be used in all cases to evaluate the environmental impact of human exposure to RF radiation as specified in [§ 1.1307\(b\) of this part](#).

For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be

used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$
1.34-30	$3,450 R^2 / f^2$
30-300	$3.83 R^2$
300-1,500	$0.0128 R^2 f$
1,500-100,000	$19.2 R^2$

3. RF Exposure Evaluation Result

§ 1.1307(b)(3)(i)(A) Exemption

Not applicable, maximum time-averaged power of all radios is more 1 mW.

§ 1.1307(b)(3)(i)(C) Exemption

Operation Bands	Freq. (MHz)	$\lambda / 2 \pi$ (mm)	Distance (mm)	Exemption ERP		Maximum Conducted Tune-up Power (dBm)	Ant. Gain (dBi)	ERP (dBm)	Exemption (Yes/No)
				(mW)	(dBm)				
WiFi 2.4GHz	2412-2462	19.81	200	768	28.85	28.00	4.40	32.40	No
WiFi 5.2GHz	5180-5240	9.22	200	768	28.85	18.00	5.00	23.00	Yes
WiFi 5.3GHz	5260-5320	9.08	200	768	28.85	18.50	5.00	23.50	Yes
WiFi 5.6GHz	5500-5700	8.69	200	768	28.85	18.50	5.00	23.50	Yes
WiFi 5.8GHz	5745-5825	8.32	200	768	28.85	18.00	5.00	23.00	Yes
LTE B2	1850-1910	25.82	200	768	28.85	23	6.9	27.75	Yes
LTE B4	1710-1755	27.94	200	768	28.85	23	4.8	25.65	Yes
LTE B5	824-849	57.97	200	422	26.25	24	4.1	25.95	Yes
LTE B7	2500-2570	19.11	200	768	28.85	23	4.7	25.55	Yes
LTE B12	699-716	68.34	200	358	25.54	24	4.1	25.95	No
LTE B13	777-787	61.48	200	398	26.00	23	4.1	24.95	Yes
LTE B14	788-798	60.62	200	403	26.06	23	4.1	24.95	Yes
LTE B17	704-716	67.86	200	360	25.57	24	4.1	25.95	No
LTE B18	815-830	58.61	200	417	26.20	24	4.1	25.95	Yes
LTE B19	830-845	57.56	200	425	26.28	24	4.1	25.95	Yes
LTE B25	1850-1915	25.82	200	768	28.85	23	6.9	27.75	Yes
LTE B26	814-849	58.69	200	417	26.20	24	4.1	25.95	Yes
LTE B30	2305-2315	20.72	200	768	28.85	23	3.9	24.75	Yes
LTE B38	2570-2620	18.59	200	768	28.85	24	4.7	26.55	Yes
LTE B40	2305-2315	20.72	200	768	28.85	23	3.9	24.75	Yes
	2350-2360	20.33	200	768	28.85	23	3.9	24.75	Yes
LTE B41	2496-2690	19.14	200	768	28.85	24	4.7	26.55	Yes
LTE B66	1710-1785	27.94	200	768	28.85	23	4.8	25.65	Yes

§ 1.1307(b)(3)(i)(B) Exemption

Operation Bands	Freq. (MHz)	Distance (mm)	Exemption P _{th}		Maximum Conducted Tune-up Power (dBm)	Ant. Gain (dBi)	ERP (dBm)	Exemption (Yes/No)
			(mW)	(dBm)				
WiFi 2.4GHz	2412-2462	200	3060	34.86	28.00	4.40	32.40	Yes
LTE B12	699-716	200	1426	31.54	24	4.1	25.95	Yes
LTE B17	704-716	200	1436	31.57	24	4.1	25.95	Yes

Note:

WiFi 2.4GHz & 5GHz technology cannot transmit simultaneously.

WiFi and WWAN technology cannot transmit simultaneously.

Tune-Up Power is declared by manufactory.

Result: Compliance.

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