

Report No.: SUCR240600021206  
Rev.: 01  
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## TEST REPORT

**Application No.:** SUCR2406000212MO  
**Applicant:** Asiatelco Technologies Co.  
**Address of Applicant:** #68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China  
**Manufacturer:** Asiatelco Technologies Co.  
**Address of Manufacturer:** #68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China  
**EUT Description:** 4G/5G Wi-Fi Router  
RE600  
RE600-V  
**Model No.:** RE600-A  
RE600-D  
RE610  
**Trade Mark:** ATEL  
**FCC ID:** XYO-RE600  
**Standards:** 47 CFR Part 2.1091  
FCC KDB 447498 D01 v06  
**Date of Receipt:** June 20, 2024  
**Date of Issue:** July 24, 2024

<b>Test Result:</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Nature Shen*

**Prepared by: Nature Shen/ Project Manager**

*Well Wei*

**Approved by: Well Wei/ Wireless Laboratory Manager**

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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		July 24, 2024		Original

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Wireless Laboratory

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## 2 General Information

### 2.1 Client Information

Applicant:	Asiatelco Technologies Co.
Address of Applicant:	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China
Manufacturer:	Asiatelco Technologies Co.
Address of Manufacturer:	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China

### 2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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## 2.3 General Description of EUT

EUT Description:	4G/5G Wi-Fi Router		
Model No.:	RE600 RE600-V RE600-A RE600-D RE610		
Trade Mark:	ATEL		
Hardware Version:	P2		
Software Version:	CPE5_RE600_00_v1.0.2		
Power Supply:	12V		
Feature:	UL 2*2 MIMO: NR Band n41; NR Band n77; NR Band n78		
HPUE Power Class:	LTE Band 41; LTE CA_41C NR Band n41; NR Band n77; NR Band n78		
Antenna Type:	PCB Antenna		
Antenna Gain:	WCDMA Band II:	3.59dBi (Ant0)	WCDMA Band IV: 3.83dBi (Ant0)
	WCDMA Band V:	3.53dBi (Ant0)	
	LTE Band 2:	3.59dBi (Ant0)	LTE Band 4: 3.83dBi (Ant0)
	LTE Band 5:	3.53dBi (Ant0)	LTE Band 7: 2.37dBi (Ant0)
	LTE Band 12:	3.19dBi (Ant0)	LTE Band 13: 1.92dBi (Ant0)
	LTE Band 14:	2.41dBi (Ant0)	LTE Band 17: 3.13dBi (Ant0)
	LTE Band 25:	3.65dBi (Ant0)	LTE Band 26: 3.53dBi (Ant0)
	LTE Band 30:	1.39dBi (Ant0)	LTE Band 41: 3.72dBi (Ant0)
	LTE Band 48:	0dBi (Ant0)	LTE Band 66: 3.83dBi (Ant0)
	LTE Band 71:	2.79dBi (Ant0)	LTE CA_41C: 3.72dBi (Ant0)
	NR Band n2:	3.59dBi (Ant0)	NR Band n5: 3.53dBi (Ant0)
	NR Band n7:	2.37dBi (Ant0)	NR Band n12: 3.19dBi (Ant0)
	NR Band n14:	2.41dBi (Ant0)	NR Band n25: 3.65dBi (Ant0)
	NR Band n30:	1.39dBi (Ant0)	NR Band n41: 3.27dBi (Ant0) 3.27dBi (Ant1)
	NR Band n66:	3.83dBi (Ant0)	NR Band n71: 2.79dBi (Ant0)

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	NR Band n77:	2.52dBi (Ant0) 2.52dBi (Ant1)	NR Band n78:	2.16dBi (Ant0) 2.16dBi (Ant1)
	2.4G WIFI:	2.06dBi (Ant1); 2.06dBi (Ant2)	5150MHz to 5250MHz:	3.33dBi (Ant1); 3.33dBi (Ant2);
	5725MHz to 5850MHz:	5.28dBi (Ant1); 5.28dBi (Ant2);		
	LTE CA: LTE UL CA_41C; LTE UL CA_2A-12A; LTE UL CA_12A-66A; ENDC: DC_41A-n41A; DC_2A_n71A; DC_12A_n2A; DC_12A_n66A; DC_66A_n71A; DC_2A_n41A; DC_12A_n25A; DC_66A_n41A NR UL CA: CA_n41A-n71A; CA_n25A-n71A; CA_n25A-n41A; CA_n66A-n41A; CA_n66A-n71A.			
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
	Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			

Remark: Model name: RE600 , RE600-V , RE600-A , RE600-D , RE610

All the hardware of product are all the same, just different brand and model for different market. The RF parameters are the same.

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## 3 RF Exposure Evaluation

### 3.1 RF Exposure Compliance Requirement

#### 3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

\*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

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R = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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### 3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

### 3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	conclusion
WCDMA Band II	1852.4	3.59	NA	25.00	28.59	33.00	0.1438	1.0000	Pass
WCDMA Band IV	1712.4	3.83	NA	25.00	28.83	30.00	0.1520	1.0000	Pass
WCDMA Band V	826.4	3.53	NA	25.00	26.38	38.45	0.1418	0.5509	Pass
LTE Band 2	1850.7	3.59	NA	25.00	28.59	33.00	0.1438	1.0000	Pass
LTE Band 4	1710.7	3.83	NA	25.00	28.83	30.00	0.1520	1.0000	Pass
LTE Band 5	824.7	3.53	NA	25.00	26.38	38.45	0.1418	0.5498	Pass
LTE Band 7	2502.5	2.37	NA	25.00	27.37	33.00	0.1086	1.0000	Pass
LTE Band 12	699.7	3.19	NA	25.00	26.04	34.77	0.1311	0.4665	Pass
LTE Band 13	779.5	1.92	NA	25.00	24.77	34.77	0.0979	0.5197	Pass
LTE Band 14	790.5	2.41	NA	25.00	25.26	34.77	0.1096	0.5270	Pass
LTE Band 17	706.5	3.13	NA	25.00	25.98	34.77	0.1293	0.4710	Pass
LTE Band 25	1850.7	3.65	NA	25.00	28.65	33.00	0.1458	1.0000	Pass
LTE Band 26(814-824)	814.7	3.53	NA	25.00	26.38	NA	0.1418	0.5431	Pass
LTE Band 26(824-849)	824.7	3.53	NA	25.00	26.38	38.45	0.1418	0.5498	Pass
LTE Band 30	2307.5	1.39	NA	22.50	23.89	23.98	0.0487	1.0000	Pass
LTE Band 41/LTE CA_41C	2498.5	3.72	NA	28.00	31.72	33.00	0.2956	1.0000	Pass
LTE Band 48	3552.5	0.00	NA	23.00	23.00	23.00	0.0397	1.0000	Pass
LTE Band 66	1710.6	3.83	NA	25.00	28.83	30.00	0.1520	1.0000	Pass
LTE Band 71	665.5	2.79	NA	25.00	25.64	34.77	0.1196	0.4437	Pass
NR Band n2	1852.5	3.59	NA	25.00	28.59	33.00	0.1438	1.0000	Pass
NR Band n5	826.5	3.53	NA	25.00	26.38	38.45	0.1418	0.5510	Pass
NR Band n7	2502.5	2.37	NA	25.00	27.37	33.00	0.1086	1.0000	Pass
NR Band n12	743.5	3.19	NA	25.00	26.04	34.77	0.1311	0.4957	Pass
NR Band n14	790.5	2.41	NA	25.00	25.26	34.77	0.1096	0.5270	Pass
NR Band n25	1852.5	3.65	NA	25.00	28.65	33.00	0.1458	1.0000	Pass
NR Band n30	2307.5	1.39	NA	22.50	23.89	23.98	0.0487	1.0000	Pass
NR Band n41	2501.0	3.27	NA	28.00	31.27	33.00	0.2665	1.0000	Pass
NR Band n41 (MIMO)	2501.0	3.27	3.27	28.00	31.27	33.00	0.2665	1.0000	Pass
NR Band n66	1712.5	3.83	NA	25.00	28.83	30.00	0.1520	1.0000	Pass
NR Band n71	665.5	2.79	NA	25.00	25.64	34.77	0.1196	0.4437	Pass
NR Band n77 (3450-3550)	3455.0	2.52	NA	27.00	29.52	30.00	0.1781	1.0000	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	2.52	2.52	27.00	29.52	30.00	0.1781	1.0000	Pass
NR Band n77 (3700-3980)	3705.0	2.52	NA	27.00	29.52	30.00	0.1781	1.0000	Pass
NR Band n77 (3700-3980)(MIMO)	3705.0	2.52	2.52	27.00	29.52	30.00	0.1781	1.0000	Pass
NR Band n78 (3450-3550)	3455.0	2.16	NA	27.00	29.16	30.00	0.1640	1.0000	Pass
NR Band n78 (3450-3550)(MIMO)	3455.0	2.16	2.16	27.00	29.16	30.00	0.1640	1.0000	Pass
NR Band n78 (3700-3800)	3705.0	2.16	NA	27.00	29.16	30.00	0.1640	1.0000	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	2.16	2.16	27.00	29.16	30.00	0.1640	1.0000	Pass
2.4G WiFi	2412.0	2.06	2.06	21.00	23.06	30.00	0.0402	1.0000	Pass
5G WiFi	5180.0	5.28	5.28	21.00	26.28	30.00	0.0845	1.0000	Pass

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Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^n \frac{S_{E_i}(\text{duty factor})}{MPE_{E_i}} < 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation  
Therefore, the worst-case(LTE UL CA\_41C) situation is 0.2956+0.2956=0.5912, which is less than “1”,  
this confirmed that the device comply with MPE limit.

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### 3.1.4 Exposure calculations for multiple sources

To ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN + WiFi 2.4G + WiFi 5G

No.	Mode	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Result Ratio	Total Ratio	Limit	Result
1	LTE Band 41*	0.2956	1.0000	0.2956	0.4203	1.0000	Pass
	WiFi 2.4G	0.0402	1.0000	0.0402			
	WiFi 5G	0.0845	1.0000	0.0845			

Remark\*: This WWAN Band was recalculated on worst Band.

---End of Report---

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