



Report No.: SEWM2209000178RG05

Rev.: 01

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## TEST REPORT

**Application No.:** SEWM2209000178RG  
**Applicant:** Xiamen Four-Faith Communication Technology Co., Ltd.  
**Address of Applicant:** 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.  
**Manufacturer:** Xiamen Four-Faith Communication Technology Co., Ltd.  
**Address of Manufacturer:** 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.  
**EUT Description:** 5G CPE  
**Model No.:** F-NR300  
**Trade Mark:** Four-Faith  
**FCC ID:** 2ALUW-FNR300  
**Standards:** 47 CFR Part 2.1091  
FCC KDB 447498 D01 v06  
**Date of Receipt:** 2022/09/26  
**Date of Issue:** 2022/12/22

**Test Result:**

**PASS\***

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun

Panta Sun  
Wireless Laboratory Manager



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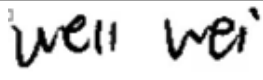
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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/22		Original

Prepared By	
	(Nick Hu) / Test Engineer
Checked By	
	(Well Wei) / Reviewer



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## 2 General Information

### 2.1 Client Information

Applicant:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Applicant:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Manufacturer:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, 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:	5G CPE	
Model No.:	F-NR300	
Trade Mark:	Four-Faith	
Hardware Version:	V1.5	
Software Version:	FNR300-NA_A311294	
Antenna Type:	PCB Antenna	
HPUE Power Class:	Class 2: Band 41, CA_41C, n41, n77, n78	
Feature:	UL 2*2 MIMO: n41; n77; n78	
Antenna Gain:	WCDMA Band II: 2.92dBi(Ant0)	WCDMA Band IV: 3.3dBi(Ant0)
	WCDMA Band V: 1.64dBi(Ant0)	
	LTE Band 2: 2.92dBi(Ant0)	LTE Band 4: 3.3dBi(Ant0)
	LTE Band 5: 1.64dBi(Ant0)	LTE Band 7: 2.77dBi(Ant0)
	LTE Band 12: 0.63dBi(Ant0)	LTE Band 13: 2.21dBi(Ant0)
	LTE Band 14: 2.21dBi(Ant0)	LTE Band 17: 0.63dBi(Ant0)
	LTE Band 25: 2.92dBi(Ant0)	LTE Band 26: 2.16dBi(Ant0)
	LTE Band 30: 2.81dBi(Ant0)	LTE Band 66: 3.3dBi(Ant0)
	LTE Band 71: 0.36dBi(Ant0)	LTE Band 41: 3.2dBi(Ant1)
	LTE Band 48: 2.17dBi(Ant5)	LTE CA_41C: 3.2dBi(Ant1)
	n2: 2.92dBi(Ant0)	n5: 1.64dBi(Ant0)
	n7: 2.77dBi(Ant0)	n12: 0.63dBi(Ant0)
	n14: 2.21dBi(Ant0)	n25: 2.92dBi(Ant0)
	n30: 2.81dBi(Ant0)	n66: 3.3dBi(Ant0)
	n71: 0.36dBi(Ant0)	
	n41: 2.77dBi(Ant0); 3.2dBi(Ant1)	
	n77: 2.99dBi(Ant4); 2.91dBi(Ant5)	
	n78: 2.99dBi(Ant4); 2.91dBi(Ant5)	
	WIFI 2.4G: 2.64dBi(Ant1); 3.09dBi(Ant2); 2.61dBi(Ant3); 2dBi(Ant4)	
	5G WIFI(U-NII-1): 2.58dBi(Ant1); 2.54dBi(Ant2); 2.86dBi(Ant3); 2.68dBi(Ant4)	
	5G WIFI(U-NII-2A): 3.08dBi(Ant1); 2.13dBi(Ant2); 1.86dBi(Ant3); 3.08dBi(Ant4)	
	5G WIFI(U-NII-2C): 2.39dBi(Ant1); 3.02dBi(Ant2); 2.79dBi(Ant3); 3.11dBi(Ant4)	
	5G WIFI(U-NII-3): 1.51dBi(Ant1); 3.13dBi(Ant2); 2.38dBi(Ant3); 3.05dBi(Ant4)	



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	<p>ENDC: DC_12A_n2A; DC_12A_n25A; DC_41A_n41A; DC_2A_n41A; DC_66A_n41A; DC_12A_n66A; DC_2A_n71A; DC_66A_n71A NR UL CA: CA_n25A-n41A; CA_n41A-n66A; CA_n41A-n71A; CA_n25A-n71A; CA_n66A-n71A;</p>
	<p>Note: The antenna gain are derived from the gain information report provided by the manufacturer.</p>
<p>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.</p>	



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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

$R$  = 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

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Output Power to Antenna (dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
WCDMA Bnad II	1852.4	2.92	25.00	27.92	33.00	316.2278	0.1232	1.0000	8.00	12.01	8.00	Pass
WCDMA Bnad IV	1712.4	3.30	25.00	28.30	30.00	316.2278	0.1345	1.0000	5.00	12.01	5.00	Pass
WCDMA Bnad V	826.4	1.64	25.00	26.64	38.45	316.2278	0.0918	0.5509	13.45	9.42	9.42	Pass
LTE B2	1850.7	2.92	25.00	27.92	33.00	316.2278	0.1232	1.0000	8.00	12.01	8.00	Pass
LTE B4	1710.7	3.30	25.00	28.30	30.00	316.2278	0.1345	1.0000	5.00	12.01	5.00	Pass
LTE B5	824.7	1.64	25.00	26.64	38.45	316.2278	0.0918	0.5498	13.45	9.41	9.41	Pass
LTE B7	2502.5	2.77	25.00	27.77	33.00	316.2278	0.1191	1.0000	8.00	12.01	8.00	Pass
LTE B12	699.7	0.63	25.00	25.63	34.77	316.2278	0.0727	0.4665	9.77	8.70	8.70	Pass
LTE B13	779.5	2.21	25.00	27.21	34.77	316.2278	0.1046	0.5197	9.77	9.16	9.16	Pass
LTE B14	790.5	2.21	25.00	27.21	34.77	316.2278	0.1046	0.5270	9.77	9.23	9.23	Pass
LTE B17	706.5	0.63	25.00	25.63	34.77	316.2278	0.0727	0.4710	9.77	8.74	8.74	Pass
LTE B25	1850.7	2.92	25.00	27.92	33.00	316.2278	0.1232	1.0000	8.00	12.01	8.00	Pass
LTE B26(814-824)	814.7	2.16	25.00	27.16	NA	316.2278	0.1034	0.5431	NA	9.36	9.36	Pass
LTE B26(824-849)	824.7	2.16	25.00	27.16	38.45	316.2278	0.1034	0.5498	13.45	9.41	9.41	Pass
LTE B30	2307.5	2.81	21.00	23.81	23.98	125.8925	0.0478	1.0000	2.98	16.01	2.98	Pass
LTE B41/CA 41(PC2)	2498.5	3.20	27.50	30.70	33.00	562.3413	0.2337	1.0000	5.50	9.51	5.50	Pass
LTE B66	1710.7	3.30	24.50	27.80	30.00	281.8383	0.1199	1.0000	5.50	12.51	5.50	Pass
LTE B71	665.5	0.36	25.00	25.36	34.77	316.2278	0.0683	0.4437	9.77	8.48	8.48	Pass
LTE B48	3552.5	2.17	20.70	22.87	23.00	117.4898	0.0385	1.0000	2.30	16.31	2.30	Pass
NR Band n2	1852.5	2.29	25.00	27.29	33.00	316.2278	0.1066	1.0000	8.00	12.01	8.00	Pass
NR Band n5	826.5	1.64	24.50	26.14	38.45	281.8383	0.0818	0.5510	13.95	9.92	9.92	Pass
NR Band n7	2502.5	2.77	24.50	27.27	33.00	281.8383	0.1061	1.0000	8.50	12.51	8.50	Pass
NR Band n12	701.5	0.63	24.50	25.13	34.77	281.8383	0.0648	0.4677	10.27	9.21	9.21	Pass
NR Band n14	790.5	2.21	24.50	26.71	34.77	281.8383	0.0933	0.5270	10.27	9.73	9.73	Pass
NR Band n25	1852.5	2.29	25.00	27.29	33.00	316.2278	0.1066	1.0000	8.00	12.01	8.00	Pass
NR Band n30	2307.5	2.81	21.00	23.81	23.98	125.8925	0.0478	1.0000	2.98	16.01	2.98	Pass



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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Output Power to Antenna (dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
NR Band n41(PC2)	2503.50	3.20	27.50	30.70	33.00	562.3413	0.2337	1.0000	5.50	9.51	5.50	Pass
NR Band n41 UL MIMO	2503.50	3.20	27.50	30.70	33.00	562.3413	0.2337	1.0000	5.50	9.51	5.50	Pass
NR Band n66	1712.5	3.3	25.00	28.30	30.00	316.2278	0.1345	1.0000	5.00	12.01	5.00	Pass
NR Band n71	665.5	0.36	25.00	25.36	34.77	316.2278	0.0683	0.4437	9.77	8.48	8.48	Pass
NR Band n77/n78 (3450-3550)	3455.0	2.99	27.50	30.49	30.00	562.3413	0.2227	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)	3705.0	2.99	27.50	30.49	30.00	562.3413	0.2227	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)	3705.0	2.99	27.50	30.49	30.00	562.3413	0.2227	1.0000	2.50	9.51	2.50	Pass
NR Band n77/n78 (3450-3550) UL MIMO	3455.0	2.99	27.50	30.49	30.00	562.3413	0.2227	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980) UL MIMO	3705.0	2.99	27.50	30.49	30.00	562.3413	0.2227	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800) UL MIMO	3705.0	2.99	27.50	30.49	30.00	562.3413	0.2227	1.0000	2.50	9.51	2.50	Pass
2.4GWIFI MIMO	2412.0	3.09	25.00	28.09	30.00	316.2278	0.1282	1.0000				Pass
5GWIFI MIMO	5320.0	3.13	23.50	26.63	30.00	223.8721	0.0916	1.0000				Pass

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:

NOTE The corresponding MEs must be expressed in terms of power density in the above summation

Therefore, the worst-case(DC\_41A\_n41A) situation is 0.2337+0.2337=0.4674, which is less than "1",

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

this confirmed that the device comply with MPE limit.

---End of Report---



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