

Report No.: SEWM2306000193RG05  
 Rev.: 01  
 Page: 1 of 11

# TEST REPORT

**Application No.:** SEWM2306000193RG  
**Applicant:** MeiG Smart Technology Co., Ltd  
**Address of Applicant:** 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen  
**Manufacturer:** MeiG Smart Technology Co., Ltd  
**Address of Manufacturer:** 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen  
**EUT Description:** 5G CPE  
**Model No.:** SRT838iPro  
**Trade Mark:** MEIGLink  
**FCC ID:** 2APJ4-SR838IPRO  
**Standards:** 47 CFR Part 2.1091  
 FCC KDB 447498 D01 v06  
**Date of Receipt:** 2023/06/08  
**Date of Issue:** 2023/06/30

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

Authorized Signature:

Well Wei  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/06/30		Original

<b>Prepared By</b>		 <hr/> (Nick Hu) / Test Engineer
<b>Checked By</b>		 <hr/> (Stone Gu) / Reviewer



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## 2 General Information

### 2.1 Client Information

Applicant:	MeiG Smart Technology Co., Ltd
Address of Applicant:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Manufacturer:	MeiG Smart Technology Co., Ltd
Address of Manufacturer:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen

### 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.:	SRT838iPro				
Trade Mark:	MEIGLink				
Hardware Version:	SRT838PRO_BOARD_V1.00_PCB				
Software Version:	SRT838iPro-SA_6.0.6_EQ100				
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated				
Antenna Gain:	LTE Band 2:	-0.34dBi(Ant0)	0.89dBi(Ant1)	1.15dBi(Ant3)	
	LTE Band 4:	-0.60dBi(Ant0)	0.55dBi(Ant1)	-0.29dBi(Ant3)	
	LTE Band 5:	-2.08dBi(Ant0)	-1.19dBi(Ant1)		
	LTE Band 7:	2.00dBi(Ant0)	0.86dBi(Ant1)	0.75dBi(Ant3)	
	LTE Band 25:	-0.34dBi(Ant0)	0.89dBi(Ant1)	1.15dBi(Ant3)	
	LTE Band 26:	-2.08dBi(Ant0)	-1.19dBi(Ant1)		
	LTE Band 38:	1.84dBi(Ant0)	0.66dBi(Ant1)	-0.54dBi(Ant3)	
	LTE Band 41:	2.00dBi(Ant0)	0.90dBi(Ant1)	0.75dBi(Ant3)	
	LTE Band 42:	2.23dBi(Ant2)	2.25dBi(Ant3)	2.23dBi(Ant4)	2.24dBi(Ant5)
	LTE Band 43:	2.26dBi(Ant2)	2.22dBi(Ant3)	2.18dBi(Ant4)	2.19dBi(Ant5)
	LTE Band 66:	-0.60dBi(Ant0)	0.90dBi(Ant1)	-0.13dBi(Ant3)	
	LTE CA_2C:	-0.34dBi(Ant0)	0.89dBi(Ant1)	1.15dBi(Ant3)	
	LTE CA_5B:	-2.08dBi(Ant0)	-1.19dBi(Ant1)		
	LTE CA_7C:	2.00dBi(Ant0)	0.86dBi(Ant1)	0.75dBi(Ant3)	
	LTE CA_41C:	2.00dBi(Ant0)	0.90dBi(Ant1)	0.75dBi(Ant3)	
	LTE CA_42C:	2.23dBi(Ant2)	2.25dBi(Ant3)	2.23dBi(Ant4)	2.24dBi(Ant5)
	LTE CA_66B:	-0.60dBi(Ant0)	0.90dBi(Ant1)	-0.13dBi(Ant3)	
	LTE CA_66C:	-0.60dBi(Ant0)	0.90dBi(Ant1)	-0.13dBi(Ant3)	
	NR Band n2:	-0.34dBi(Ant0)	0.89dBi(Ant1)	1.15dBi(Ant3)	
	NR Band n5:	-2.08dBi(Ant0)	-1.19dBi(Ant1)		
	NR Band n7:	2.00dBi(Ant0)	0.86dBi(Ant1)	0.75dBi(Ant3)	
NR Band n25:	-0.34dBi(Ant0)	0.89dBi(Ant1)	1.15dBi(Ant3)		
NR Band n26:	-2.08dBi(Ant0)	-1.19dBi(Ant1)			
NR Band n38:	1.84dBi(Ant0)	0.66dBi(Ant1)	-0.54dBi(Ant3)		
NR Band n41:	2.00dBi(Ant0)	0.90dBi(Ant1)	0.75dBi(Ant3)		
NR Band n66:	-0.60dBi(Ant0)	0.90dBi(Ant1)	-0.13dBi(Ant3)		
NR Band n77:	2.26dBi(Ant2)	2.25dBi(Ant3)	2.23dBi(Ant4)	2.28dBi(Ant5)	



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NR Band n78:	2.26dBi(Ant2)	2.25dBi(Ant3)	2.23dBi(Ant4)	2.27dBi(Ant5)
<p>LTE CA:                  LTE UL CA_2C; LTE UL CA_5B; LTE UL CA_7C;LTE UL CA_41C;                  LTE UL CA_42C; LTE UL CA_66B; LTE UL CA_66C;                  LTE UL CA_2A-4A; LTE UL CA_2A-5A; LTE UL CA_2A-7A;                  LTE UL CA_2A-26A; LTE UL CA_2A-66A; LTE UL CA_4A-5A;                  LTE UL CA_4A-7A; LTE UL CA_5A-7A; LTE UL CA_5A-66A;                  LTE UL CA_7A-66A; LTE UL CA_25A-66A; LTE UL CA_41A-42A;                  LTE UL CA_26A-66A; LTE UL CA_7A-26A;                  ENDC:                  DC_4A_n2A;DC_5A_n2A;DC_7A_n2A ;DC_66A_n2A;                  DC_2A_n5A;DC_7A_n5A;DC_66A_n5A;                  DC_2A_n7A;DC_4A_n7A;DC_5A_n7A;DC_66A_n7A;                  DC_2A_n38A;DC_66A_n38A;                  DC_2A_n41A;DC_4A_n41A;DC_5A_n41A;DC_25A_n41A;DC_66A_n41A;                  DC_2A_n66A;DC_5A_n66A;DC_7A_n66A;                  DC_2A_n77A;DC_5A_n77A;DC_7A_n77A; DC_41A_n77A;DC_66A_n77A;                  DC_2A_n78A;DC_4A_n78A;DC_5A_n78A;DC_7A_n78A;DC_26A_n78A;                  DC_41A_n78A;DC_66A_n78A.</p>				
WIFI 2.4G:	0.88dBi(Ant0)		0.88dBi(Ant1)	
5G WIFI(U-NII-I):	1.75dBi(Ant0);		1.88dBi(Ant1);	
5G WIFI(U-NII-IIA):	1.81dBi(Ant0);		1.27dBi(Ant1);	
5G WIFI(U-NII-IIC):	1.62dBi(Ant0);		1.59dBi(Ant1);	
5G WIFI(U-NII-III):	1.53dBi(Ant0);		1.95dBi(Ant1);	
<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:  $Pd = (Pout * G) / (4 * \pi * R^2)$

Where

Pd = power density in mW/cm<sup>2</sup>

Pout = 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

Pd 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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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(Limit) (dBm)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
NR Band n38	2575.0	1.84	NA	24.50	26.34	33.00	0.0857	1.0000	8.50	12.51	8.50	Pass
NR Band n38(PC2)	2575.0	1.84	NA	27.50	29.34	33.00	0.1709	1.0000	5.50	9.51	5.50	Pass
NR Band n38(MIMO)	2575.0	1.84	0.81	27.50	29.34	33.00	0.1709	1.0000	5.50	9.51	5.50	Pass
NR Band n41	2506.0	2.00	NA	24.50	26.50	33.00	0.0889	1.0000	8.50	12.51	8.50	Pass
NR Band n41(PC2)	2506.0	2.00	NA	27.50	29.50	33.00	0.1773	1.0000	5.50	9.51	5.50	Pass
NR Band n41(MIMO)	2506.0	2.00	1.42	27.50	29.50	33.00	0.1773	1.0000	5.50	9.51	5.50	Pass
NR Band n77 (3450-3550)	3455.0	2.28	NA	25.50	27.78	30.00	0.1193	1.0000	4.50	11.51	4.50	Pass
NR Band n77 (3450-3550)(PC2)	3455.0	2.28	NA	27.50	29.78	30.00	0.1891	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	2.28	2.25	27.50	29.78	30.00	0.1891	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)	3707.5	2.28	NA	25.50	27.78	30.00	0.1193	1.0000	4.50	11.51	4.50	Pass
NR Band n77 (3700-3980)(PC2)	3707.5	2.28	NA	27.50	29.78	30.00	0.1891	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)(MIMO)	3707.5	2.28	2.25	27.50	29.78	30.00	0.1891	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)	3455.0	2.27	NA	27.50	29.77	30.00	0.1887	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)(PC2)	3455.0	2.27	NA	27.50	29.77	30.00	0.1887	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)(MIMO)	3455.0	2.27	2.25	27.50	29.77	30.00	0.1887	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)	3705.0	2.27	NA	27.50	29.77	30.00	0.1887	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)(PC2)	3705.0	2.27	NA	27.50	29.77	30.00	0.1887	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	2.27	2.25	27.50	29.77	30.00	0.1887	1.0000	2.50	9.51	2.50	Pass
2.4GWIFI(MIMO)	2412.0	0.88	0.88	23.00	23.88	30.00	0.0486	1.0000	NA	NA	NA	Pass
5GWIFI(MIMO)	5320.0	1.95	1.95	23.00	24.95	30.00	0.0622	1.0000	NA	NA	NA	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:

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

Therefore, the worst-case(DC\_7A\_n77A) situation is  $0.089+0.189=0.278$ , which is less than "1",

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

this confirmed that the device comply with MPE limit.



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### 3.1.4 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.

In order 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	NR Band n77(MIMO)	0.1891	1.0000	0.1891	0.2999	1.0000	Pass
	WiFi 2.4G	0.0486	1.0000	0.0486			
	WiFi 5G	0.0622	1.0000	0.0622			

Remark: This WWAN Band was recalculated on worst Band.

---End of Report---



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