

Report No.: SEWM2212000297RG03
 Rev.: 01
 Page: 1 of 10

TEST REPORT

Application No.: SEWM2212000297RG
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: SRM825
Model No.: SRM825N-NA
Trade Mark: MEIGLink
FCC ID: 2APJ4-SRM825NNA
Standards: 47 CFR Part 2.1091
 FCC KDB 447498 D01 v06
Date of Receipt: 2022/12/08
Date of Issue: 2023/02/14

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/02/14		Original

Prepared By		 <hr/> (Nick Hu) / Test Engineer
Checked By		 <hr/> (Well Wei) / 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:	SRM825		
Model No.:	SRM825N-NA		
Trade Mark:	MEIGLink		
Hardware Version:	SRM825WN_X62_V1.01		
Software Version:	SRM825N_6.0.3_EQ101		
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated		
Antenna Gain:	LTE Band 2:	-1.1dBi(Ant0)	LTE Band 4: -1.4dBi(Ant0)
	LTE Band 5:	-1.1dBi(Ant2)	LTE Band 7: 1.9dBi(Ant0)
	LTE Band 12:	1.3dBi(Ant2)	LTE Band 13: 1.7dBi(Ant2)
	LTE Band 14:	1.6dBi(Ant2)	LTE Band 17: 1.3dBi(Ant2)
	LTE Band 25:	-1.1dBi(Ant0)	LTE Band 26: -0.8dBi(Ant2)
	LTE Band 48:	3.1dBi(Ant1); 3.1dBi(Ant3)	
	LTE Band 66:	-1.4dBi(Ant0)	LTE Band 71: 1.1dBi(Ant2)
	LTE Band 41:	1.9dBi(Ant0); 1.9dBi(Ant2)	
	LTE CA_2C:	-1.1dBi(Ant0)	LTE CA_5B: -1.1dBi(Ant2)
	LTE CA_48C:	3.1dBi(Ant1); 3.1dBi(Ant3)	
	LTE CA_66B:	-1.4dBi(Ant0)	
	LTE CA_66C:	-1.4dBi(Ant0)	
	LTE CA_41C:	1.9dBi(Ant0); 1.9dBi(Ant2)	
	NR Band n2:	-1.1dBi(Ant0)	NR Band n5: -1.1dBi(Ant2)
	NR Band n7:	1.9dBi(Ant0)	NR Band n12: 1.3dBi(Ant2)
	NR Band n25:	-1.1dBi(Ant0)	
	NR Band n41:	1.9dBi(Ant0); 1.9dBi(Ant2)	
	NR Band n48:	3.1dBi(Ant1); 3.1dBi(Ant3)	
	NR Band n66:	-1.4dBi(Ant0)	NR Band n71: 1.1dBi(Ant1)
	NR Band n77:	3.1dBi(Ant1); 3.1dBi(Ant3)	
	LTE UL CA:	LTE UL CA_2A-5A; LTE UL CA_2A-12A; LTE UL CA_2A-13A; LTE UL CA_2A-14A; LTE UL CA_4A-5A; LTE UL CA_4A-12A; LTE UL CA_4A-13A; LTE UL CA_5A-66A; LTE UL CA_12A-66A; LTE UL CA_13A-66A	
	NR UL CA:	NR UL CA_n2A-n77A; NR UL CA_n5A-n77A; NR UL CA_n25A-n41A; NR UL CA_n25A-n77A; NR UL CA_n41A-n66A; NR UL CA_n41A-n71A; NR UL CA_n66A-n77A; NR UL CA_n71A-n77A	
	ENDC:		



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	<p>DC_5A-n2A, DC_12A-n2A, DC_13A-n2A, DC_71A-n2A; DC_2A-n5A, DC_48A-n5A, DC_66A-n5A, DC_7A-n5A; DC_2A-n12A, DC_48A-n12A, DC_66A-n12A; DC_12A-n25A; DC_2A-n41A, DC_12A-n41A; DC_5A-n66A, DC_12A-n66A, DC_13A-n66A, DC_48A-n66A,DC_71A-n66A; DC_2A-n71A, DC_48A-n71A, DC_66A-n71A; DC_2A-n77A, DC_5A-n77A, DC_12A-n77A, DC_13A-n77A, DC_66A-n77A,DC_71A-n77A</p> <p>Note: The antenna gain are derived from the gain information report provided by the manufacturer.</p>
<p>HPUE Power Class:</p>	<p>Class 2: LTE Band 41, LTE CA_41C, NR Band n41; NR Band n77</p>
<p>Feature:</p>	<p>UL 2*2 MIMO: NR Band n41; NR Band n77</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 ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is the limit of MPE, 1 mW/cm². 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.



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.



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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Average Output Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
LTE B2/LTE CA_2C	1850.7	-1.10	N/A	25.70	24.60	33.00	0.0574	1.0000	7.30	11.31	7.30	Pass
LTE Band 4	1710.7	-1.40	N/A	25.70	24.30	30.00	0.0535	1.0000	4.30	11.31	4.30	Pass
LTE B5/LTE CA_5B	824.7	-1.10	N/A	25.70	22.45	38.45	0.0574	0.5498	14.90	8.71	8.71	Pass
LTE B7	2502.5	1.90	N/A	25.70	27.60	33.00	0.1145	1.0000	7.30	11.31	7.30	Pass
LTE B12	699.7	1.30	N/A	25.70	24.85	34.77	0.0997	0.4665	11.22	8.00	8.00	Pass
LTE B13	779.5	1.70	N/A	25.70	25.25	34.77	0.1093	0.5197	11.22	8.46	8.46	Pass
LTE B14	790.5	1.60	N/A	25.70	25.15	34.77	0.1068	0.5270	11.22	8.53	8.53	Pass
LTE B17	706.5	1.30	N/A	25.70	24.85	34.77	0.0997	0.4710	11.22	8.04	8.04	Pass
LTE B25	1850.7	-1.10	N/A	25.70	24.60	33.00	0.0574	1.0000	7.30	11.31	7.30	Pass
LTE B26(814-824)	814.7	-0.80	N/A	25.70	22.75	NA	0.0615	0.5431	NA	8.66	8.66	Pass
LTE B26(824-849)	824.7	-0.80	N/A	25.70	22.75	38.45	0.0615	0.5498	14.90	8.71	8.71	Pass
LTE B41/LTE CA_41C	2498.5	1.90	N/A	28.70	30.60	33.00	0.2284	1.0000	4.30	8.31	4.30	Pass
LTE B48/LTE CA_48C	3552.5	3.10	N/A	19.00	22.10	23.00	0.0323	1.0000	4.00	18.01	4.00	Pass
LTE B66 /LTE CA_66B/66C	1710.7	-1.40	N/A	25.70	24.30	30.00	0.0535	1.0000	4.30	11.31	4.30	Pass
LTE B71	665.5	1.10	N/A	25.70	24.65	34.77	0.0952	0.4437	11.22	7.78	7.78	Pass
NR Band n2	1852.5	-1.10	N/A	24.50	23.40	33.00	0.0435	1.0000	8.50	12.51	8.50	Pass
NR Band n5	826.5	-1.10	N/A	24.50	21.25	38.45	0.0435	0.5510	16.10	9.92	9.92	Pass
NR Band n7	2502.5	1.90	N/A	24.50	26.40	33.00	0.0868	1.0000	8.50	12.51	8.50	Pass
NR Band n12	701.5	1.30	N/A	24.50	23.65	34.77	0.0756	0.4677	12.42	9.21	9.21	Pass
NR Band n25	1852.5	-1.10	N/A	24.50	23.40	33.00	0.0435	1.0000	8.50	12.51	8.50	Pass
NR Band n41	2506.0	1.90	N/A	27.50	29.40	33.00	0.1733	1.0000	5.50	9.51	5.50	Pass
NR Band n41 MIMO	2506.0	1.90	1.90	27.50	29.40	33.00	0.1733	1.0000	5.50	9.51	5.50	Pass
NR Band n48	3555.0	3.10	N/A	19.70	22.80	23.00	0.0379	1.0000	3.30	17.31	3.30	Pass
NR Band n66	2112.5	-1.40	N/A	24.50	23.10	30.00	0.0406	1.0000	5.50	12.51	5.50	Pass
NR Band n71	619.5	1.10	N/A	24.50	23.45	34.77	0.0722	0.4130	12.42	8.67	8.67	Pass
NR Band n77 (3450-3550)	3455.0	3.10	N/A	24.50	27.60	30.00	0.1145	1.0000	5.50	12.51	5.50	Pass
NR Band n77 (3450-3550) MIMO	3455.0	3.10	3.10	27.50	30.60	30.00	0.2284	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)	3705.0	3.10	N/A	24.50	27.60	30.00	0.1145	1.0000	5.50	12.51	5.50	Pass
NR Band n77 (3700-3980) MIMO	3705.0	3.10	3.10	27.50	30.60	30.00	0.2284	1.0000	2.50	9.51	2.50	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(DC_12A-n41A) situation is 0.214+0.173=0.387,which is less than “1”,
 this confirmed that the device comply with MPE limit.

---End of Report---



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