

FCC RF Exposure Test Report

Report No. : SAR260623B001

Applicant : MEIG SMART TECHNOLOGY CO., LTD

Address : 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong
Street, Bao'an District, Shenzhen

Product : SRM813Q

FCC ID : 2APJ4-SRM813Q

Brand : MEIGLink

Model No. : SRM813Q

Standards : FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06

Sample Received Date : May. 21, 2026

Date of Testing : May. 21, 2026 ~ Jun. 23, 2026

Test Lab : The FCC Site Registration No. is 646781; The Designation No. is CN1429.

Issued By : BOOMWAVE TEST (SHENZHEN) CO., LTD.

Address : Room B38, Warehouse A5 (Chiwan No.1), No.3 Chiwan 4th Road, Chiwan
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CERTIFICATION: The above equipment have been tested by **BOOMWAVE TEST (SHENZHEN) CO., LTD.** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

Prepared By :

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(Jiawei Tu / Engineer)

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Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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Release Control Record

Report No.	Reason for Change	Date Issued
SAR260623B001	Original release	Jun. 23, 2026

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1. Description of Equipment Under Test

EUT Type*	SRM813Q
Brand Name*	MEIGLink
Model Name*	SRM813Q
Tx Frequency Bands (Unit: MHz)	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13) 790.5MHz ~ 795.5MHz (FOR LTE Band14) 706.5MHz ~ 713.5MHz (FOR LTE Band17) 1850.7MHz ~ 1914.3MHz (FOR LTE Band25) 814.7MHz ~ 848.3MHz (FOR LTE Band26) 2307.5 MHz ~ 2312.5 MHz (FOR LTE Band30) 2572.5MHz ~ 2617.5MHz (FOR LTE Band38) 2498.5MHz ~2687.5MHz (FOR LTE Band41) 3452.5MHz ~3597.5MHz (FOR LTE Band42) 3602.5MHz ~3697.5MHz (FOR LTE Band43) 3552.5MHz ~3697.5MHz (FOR LTE Band48) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66) 665.5MHz ~ 695.5MHz (FOR LTE Band71) SA: n2 (1852.5MHz ~1907.5MHz) n5(826.5MHz ~ 846.5MHz) n7(2502.5MHz ~ 2567.5MHz) n12(701.5MHz ~ 713.5MHz) n13(779.5MHz ~ 784.5MHz) n14(790.5MHz ~ 795.5MHz) n25(1852.5MHz ~ 1912.5MHz) n26(816.6MHz ~ 846.5MHz) n30(2307.5MHz ~ 2312.5MHz) n38(2575MHz ~ 2615MHz) n41(2501.01MHz ~ 2685MHz) n66(1712.5 MHz ~ 1777.5MHz) n70(1697.5 MHz ~ 1707.5) n71(665.5 MHz~ 695.5MHz) n77(Part27Q)(3455.01MHz ~ 3544.98MHz) n77(Part27O)(3705MHz ~ 3974.97MHz) n78(Part27Q)(3455.01MHz ~ 3544.98MHz) n78(Part 27O) (3705MHz ~ 3794.97MHz)
Uplink Modulations*	LTE : QPSK, 16QAM, 64QAM 5G NR: DFT-s-OFMA($\pi/2$ BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFMA(QPSK,16QAM,64QAM,256QAM)
HW VERSION*	SRM813Q-NA_MB_V1.00
SW VERSION*	SRM813Q-NA_2.0.3_EQ100
Antenna Type*	WWAN: External Antenna
EUT Stage*	Production Unit

Note:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

2. MPE(Maximum Permissible Exposure) Assessment

2.1 Introduction

According to 47 CFR §2.1091, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitting antenna and the body of the user or nearby persons. In this context, the term “fixed location” means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 cm separation requirement. The limits to be used for MPE evaluation are specified in §1.1310. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

2.2 RF Radiation Exposure Limits

According to 47 CFR §1.1310, the criteria listed in below table shall be used to evaluate the environmental impact of human exposure to RF radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093.

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (min)
(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 – 100000	-	-	5	6
(B) Limits for General Population / Uncontrolled Exposures				
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 – 100000	-	-	1.0	30

Limits for maximum permissible exposure (MPE)

Notes:

1. f = frequency in MHz
2. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided they are made aware of the potential for exposure.
3. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



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2.3 MPE Assessment Method

Calculations can be made to predict RF field strength and power density levels around typical RF sources. For example, in the case of a single radiating antenna, a prediction for power density in the far-field of the antenna can be made by use of the general Equations below. This equation is generally accurate in the far-field of an antenna but will over-predict power density in the near field, where they could be used for making a "worst case" or conservative prediction.

$$\text{Power Density (S)} = \frac{PG}{4\pi R^2} = \frac{\text{EIRP}}{4\pi R^2}$$

Where

S = Power Density, unit in mW/cm²

P = Power input to the antenna, unit in mW

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna, unit in cm

EIRP = Effective isotropically radiated power

2.4 MPE Calculation for Standalone Operations

The manufacturer expects that the radiated component of this device will not close to the human body during normal usage and the warning statement was also stated in the user instruction. Since the transmitting antenna will be kept at least 20 cm away from the human body, the MPE level is calculated based on this condition and the result is listed in below table.



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CALCULATION FOR MAXIMUM E.I.R.P

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Output Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (mW)	EIRP/ERP Limit (dBm)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP (dBi)	Gain according to PD (dBi)	Max Gain Allowed (dBi)
LTE Band 2	1850.7	1.35	25.7	27.05	506.991	33.01	0.101	1.000	7.31	11.30	7.31
LTE Band 4	1710.7	2.15	25.7	27.85	609.537	30.00	0.121	1.000	4.30	11.30	4.30
LTE Band 5	824.7	1.87	25.7	27.57	571.479	38.45	0.114	0.550	14.90	8.70	8.70
LTE Band 7	2502.5	0.88	25.7	26.58	454.988	33.01	0.091	1.000	7.31	11.30	7.31
LTE Band 12	699.7	1.23	25.7	26.93	493.174	34.77	0.098	0.466	11.22	7.98	7.98
LTE Band 13	779.5	1.18	25.7	26.88	487.528	34.77	0.097	0.520	11.22	8.45	8.45
LTE Band 14	790.5	1.21	25.7	26.91	490.908	34.77	0.098	0.527	11.22	8.51	8.51
LTE Band 17	706.5	1.42	25.7	27.12	515.229	34.77	0.103	0.471	11.22	8.02	8.02
LTE Band 25	1850.7	1.22	25.7	26.92	492.040	33.01	0.098	1.000	7.31	11.30	7.31
LTE Band 26	814.7	2.06	25.7	27.76	597.035	38.45	0.119	0.543	14.90	8.64	8.64
LTE Band 30	2307.5	-0.41	24	23.59	228.560	23.98	0.045	1.000	-0.02	13.00	-0.02
LTE Band 38	2572.5	1.17	25.7	26.87	486.407	33.01	0.097	1.000	7.31	11.30	7.31
LTE Band 41	2598.5	1.34	25.7	27.04	505.825	33.01	0.101	1.000	7.31	11.30	7.31
LTE Band 42	3452.5	-0.63	25.7	25.07	321.366	30.00	0.064	1.000	4.30	11.30	4.30
LTE Band 43	3602.5	-0.77	25.7	24.93	311.172	30.00	0.062	1.000	4.30	11.30	4.30
LTE Band 48	3552.5	-0.63	23.63	23.00	199.526	23.00	0.040	1.000	-0.63	13.37	-0.63
LTE Band 66	1710.7	1.12	25.7	26.82	480.839	30.00	0.096	1.000	4.30	11.30	4.30
LTE Band 71	665.5	1.86	25.7	27.56	570.164	34.77	0.113	0.444	11.22	7.76	7.76
NR Band n2	1852.5	1.35	25.7	27.05	506.991	33.01	0.101	1.000	7.31	11.30	7.31
NR Band n5	826.5	2.11	25.7	27.81	603.949	38.45	0.120	0.551	14.90	8.71	8.71
NR Band n7	2502.5	0.97	25.7	26.67	464.515	33.01	0.092	1.000	7.31	11.30	7.31
NR Band n12	701.5	1.89	25.7	27.59	574.116	34.77	0.114	0.468	11.22	7.99	7.99
NR Band n13	779.5	1.5	25.7	27.20	524.807	34.77	0.104	0.520	11.22	8.45	8.45
NR Band n14	790.5	1.46	25.7	27.16	519.996	34.77	0.104	0.527	11.22	8.51	8.51
NR Band n25	1852.5	1.35	25.7	27.05	506.991	33.01	0.101	1.000	7.31	11.30	7.31
NR Band n26	816.5	2.06	25.7	27.76	597.035	38.45	0.119	0.544	14.90	8.65	8.65
NR Band n30	2307.5	-0.41	24	23.59	228.560	23.98	0.045	1.000	-0.02	13.00	-0.02
NR Band n38 HPUE	2575	0.97	27.5	28.47	703.072	33.01	0.140	1.000	5.51	9.50	5.51
NR Band n41 HPUE	2506.02	1.3	27.5	28.80	758.578	33.01	0.151	1.000	5.51	9.50	5.51
NR Band n66	1712.5	2.11	25.7	27.81	603.949	30.00	0.120	1.000	4.30	11.30	4.30
NR Band n70	1697.5	1.69	25.7	27.39	548.277	30.00	0.109	1.000	4.30	11.30	4.30
NR Band n71	665.5	2.2	25.7	27.90	616.595	34.77	0.123	0.444	11.22	7.76	7.76
NR Band n77 HPUE	3455.01	2.32	27.5	29.82	959.401	30.00	0.191	1.000	2.50	9.50	2.50
NR Band n78 HPUE	3455.01	1.4	27.5	28.90	776.247	30.00	0.155	1.000	2.50	9.50	2.50



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3. Information on the Testing Laboratories

We, BOOMWAVE TEST (SHENZHEN) CO., LTD., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

BOOMWAVE TEST (SHENZHEN) CO., LTD.

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