



TEST REPORT

Applicant: MeiG Smart Technology Co., Ltd
Address: 2nd Floor, Office Building, No.5 Lingxia Road,
Fenghuang, Fuyong Street, Bao'an District,
Shenzhen City.
Equipment Type: 5G Module
Model Name: SRM700
Brand Name: MEIGLink
FCC ID: 2APJ4-SRM700
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Apr. 19, 2024
Test Date: Apr. 19, 2024 - Jul. 18, 2024
Date of Issue: Jul. 31, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xu Rui

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Approved by: Hanson Lin
(Vice General Manager)

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jul. 31, 2024</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Technical Information	4
3	SUMMARY OF TEST RESULT	7
3.1	Test Standards	7
3.2	Limit Standards.....	7
4	DEVICE CATEGORY AND LEVELS LIMITS	8
5	ASSESSMENT RESULT	10
5.1	Output Power	10
5.2	Tune-up power	13
5.3	RF Exposure Evaluation Result	14
5.4	Collocated Power Calculation	16
5.5	Conclusion.....	16

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

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

2.2 Manufacturer Information

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

2.3 General Description for Equipment under Test (EUT)

EUT Name	5G Module
Model Name Under Test	SRM700
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	SRM700U_MB_V1.00_PCB
Software Version	T03
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5/8 4G Network LTE FDD Band 2/4/5/7/8/12/13/14/17/25/26/66/71 LTE TDD Band 38/41 LTE CA Downlink(DL): refer to spec 5G Network SA: NR n2/n5/n7/n8/n25/n38/n41/n66/n71/n77/n78/n79 NSA(EN-DC): DC_5A_n77A, DC_12A_n77A, DC_41A_n77A, DC_2A_n78A, DC_5A_n78A, DC_41A_n78A Bluetooth 5.2 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160) and 802.11ax(HE20/40/80/160), U-NII-1/2A/2C/3 6G WIFI 802.11ax(HE20/40/80/160), U-NII-5/6/7/8 GPS, GLONASS, BeiDou, L1+L5 GPS
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	Bluetooth		
Frequency Range	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 14	TX: 788 ~ 798 MHz	RX: 758 ~ 768 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	NR n2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	NR n5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	NR n7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	NR n25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	NR n38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	NR n41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	NR n66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	NR n71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	NR n77	TX: 3450 ~ 3550 MHz	RX: 3450 ~ 3550 MHz
		TX: 3700 ~ 3980 MHz	RX: 3700 ~ 3980 MHz
	NR n78	TX: 3450 ~ 3550 MHz	RX: 3450 ~ 3550 MHz
		TX: 3700 ~ 3800 MHz	RX: 3700 ~ 3800 MHz
	802.11b/g /n(HT20/HT40)/ 802.11ax(HE20/40)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/V HT80/VHT160)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	802.11 ax(HE20/HE40/HE80/ HE160)	5925 ~ 6425 MHz	
		6425 ~ 6525 MHz	
		6525 ~ 6875 MHz	
		6875 ~ 7125 MHz	
	Bluetooth	2400 ~ 2483.5 MHz	

Antenna Type	WWAN	External Antenna
	WLAN	External Antenna
	Bluetooth	External Antenna
Exposure Category	General Population/Uncontrolled Exposure	
Product Type	Mobile Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

(b) For purposes of this section, 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 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

For 300MHz to 6000Mhz

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Table B-2 Example Power Thresholds (mW)											
Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

For 6000MHz to 10000Mhz

Frequencies above 300 kHz but at distances $R > \lambda/2\pi$, R is the antenna-person separation distance.
 λ =wavelength of transmitted signal.

Can calculate from the frequency of operation using $v=f*\lambda$

v =speed of light= $3*10^8$ m/s

f =frequency(Hz)

Primarily an MPE-based exclusion but also SAR-based where $\lambda/2\pi$ is $< 20\text{cm}$.

TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES
SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source Frequency		Minimum Distance		Threshold ERP
f_L MHz	f_H MHz	$\lambda_L / 2\pi$	$\lambda_H / 2\pi$	W
0.3	1.34	159 m	35.6 m	$1,920 R^2$
1.34	30	35.6 m	1.6 m	$3,450 R^2/f^2$
30	300	1.6 m	159 mm	$3.83 R^2$
300	1,500	159 mm	31.8 mm	$0.0128 R^2 f$
1,500	100,000	31.8 mm	0.5 mm	$19.2 R^2$

Subscripts L and H are low and high; λ is wavelength.
 From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

5 ASSESSMENT RESULT

5.1 Output Power

WCDMA			
Mode	Band 2	Band 4	Band 5
Conducted Power (dBm)	23.99	24.12	23.95
Antenna Gain (dBm)	-1.09	-2.57	-2.59
ERP/EIRP (dBm)	22.90	21.55	19.21

Note: This table listed the worst case power value, please refer to BL-SH2440056-501 report for more details.

LTE								
Mode	Band2	Band4	Band5	Band7	Band12	Band13	Band14	Band17
Conducted Power (dBm)	22.58	22.83	22.86	23.05	22.59	22.64	22.70	22.61
Antenna Gain (dBm)	-1.09	-2.57	-2.59	2.35	-3.91	-3.52	-2.69	-3.91
ERP/EIRP (dBm)	21.49	20.26	18.12	25.40	16.53	16.97	17.86	16.55

Note: This table listed the worst case power value, please refer to BL-SH2440056-501 report for more details.

LTE							
Mode	Band25	Band26 (Part22)	Band26 (Part90)	Band38	Band41	Band66	Band71
Conducted Power (dBm)	22.64	22.78	22.71	23.34	22.83	22.79	22.68
Antenna Gain (dBm)	-1.09	-2.59	-2.59	2.38	2.38	-2.57	-5.29
ERP/EIRP (dBm)	21.55	18.04	17.97	25.72	25.21	20.22	15.24

Note: This table listed the worst case power value, please refer to BL-SH2440056-501 report for more details.

NR						
Mode	n2	n5	n7	n25	n38	n41
Conducted Power (dBm)	24.12	24.00	24.14	24.39	24.47	26.20
Antenna Gain (dBm)	-1.09	-2.59	2.35	-1.09	2.38	2.38
ERP/EIRP (dBm)	23.03	19.26	26.49	23.30	26.85	28.58

Note: This table listed the worst case power value, please refer to BL-SH2440056-501 report for more details.

NR						
Mode	n66	n71	n77 (3450-3550 MHz)	n77 (3700-3980 MHz)	n78 (3450-3550 MHz)	n78 (3700-3800 MHz)
Conducted Power (dBm)	23.99	24.15	25.55	26.29	25.44	26.19
Antenna Gain (dBm)	-2.57	-5.29	2.09	3.50	2.09	3.40
ERP/EIRP (dBm)	21.42	16.71	27.64	29.79	27.53	29.59

Note: This table listed the worst case power value, please refer to BL-SH2440056-501 report for more details.

Mode	Bluetooth
Conducted Power (dBm)	15.44
Antenna Gain (dBm)	3.95
EIRP (dBm)	19.39
Note: This table listed the worst case power value, please refer to BL-SH2440056-601, BL-SH2440056-602 report for more details.	

Mode	MAX WLAN 2.4G Main Antenna	MAX WLAN 2.4G Aux Antenna
Conducted Power (dBm)	27.34	27.46
Antenna Gain (dBm)	3.95	3.95
EIRP (dBm)	31.29	31.41
Note: This table listed the worst case power value, please refer to BL-SH2440056-603 report for more details.		

Main Antenna				
Mode	MAX U-NII-1	MAX U-NII-2A	MAX U-NII-2C	MAX U-NII-3
Conducted Power (dBm)	14.59	14.38	16.37	15.92
Antenna Gain (dBi)	1.46	1.52	1.29	1.48
EIRP(dBm)	16.05	15.90	17.66	17.40
Note: This table listed the worst case power value, please refer to BL-SH2440056-604 report for more details.				

Aux. Antenna				
Mode	MAX U-NII-1	MAX U-NII-2A	MAX U-NII-2C	MAX U-NII-3
Conducted Power (dBm)	16.41	15.92	18.42	17.85
Antenna Gain (dBi)	1.46	1.52	1.29	1.48
EIRP(dBm)	17.87	17.44	19.71	19.33
Note: This table listed the worst case power value, please refer to BL-SH2440056-604 report for more details.				

MIMO				
Mode	MAX U-NII-1	MAX U-NII-2A	MAX U-NII-2C	MAX U-NII-3
Conducted Power (dBm)	14.79	16.05	16.36	16.53
Antenna Gain (dBi)	1.46	1.52	1.29	1.48
EIRP(dBm)	16.25	17.57	17.65	18.01
Note: This table listed the worst case power value, please refer to BL-SH2440056-604 report for more details.				

Main Antenna				
Mode	MAX U-NII-5	MAX U-NII-6	MAX U-NII-7	MAX U-NII-8
Conducted Power (dBm)	15.13	14.59	12.73	16.85
Antenna Gain (dBi)	0.96	0.75	0.77	1.56
EIRP(dBm)	16.09	15.34	13.50	18.41
Note: This table listed the worst case power value, please refer to BL-SH2440056-605 report for more details.				

Aux. Antenna				
Mode	MAX U-NII-5	MAX U-NII-6	MAX U-NII-7	MAX U-NII-8
Conducted Power (dBm)	14.60	14.89	14.58	14.33
Antenna Gain (dBi)	0.96	0.75	0.77	1.56
EIRP(dBm)	15.56	15.64	15.35	15.89
Note: This table listed the worst case power value, please refer to BL-SH2440056-605 report for more details.				

MIMO				
Mode	MAX U-NII-5	MAX U-NII-6	MAX U-NII-7	MAX U-NII-8
Conducted Power (dBm)	15.06	14.86	14.10	14.42
Antenna Gain (dBi)	0.96	0.75	0.77	1.56
EIRP(dBm)	16.02	15.61	14.87	15.98
Note: This table listed the worst case power value, please refer to BL-SH2440056-605 report for more details.				

5.2 Tune-up power

Mode		Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
WCDMA	Band 2	[23.00,25.00]	[22.00,24.00]	[19.85,21.85]
	Band 4	[23.00,25.00]	[21.00,23.00]	[18.85,20.85]
	Band 5	[23.00,25.00]	/	[18.85,20.85]
LTE	Band 2	[22.00,24.00]	[20.00,22.00]	[17.85,19.85]
	Band 4	[22.00,24.00]	[19.00,21.00]	[16.85,18.85]
	Band 5	[22.00,24.00]	/	[16.85,18.85]
	Band 7	[22.00,24.00]	[24.00,26.00]	[21.85,23.85]
	Band 12	[22.00,24.00]	/	[15.85,17.85]
	Band 13	[22.00,24.00]	/	[15.85,17.85]
	Band 14	[22.00,24.00]	/	[16.85,18.85]
	Band 17	[22.00,24.00]	/	[15.85,17.85]
	Band 25	[22.00,24.00]	[21.00,23.00]	[18.85,20.85]
	Band 26(Part22)	[22.00,24.00]	/	[16.85,18.85]
	Band 26(Part90)	[22.00,24.00]	/	[16.85,18.85]
	Band 66	[22.00,24.00]	[19.00,21.00]	[16.85,18.85]
	Band 71	[22.00,24.00]	/	[13.85,15.85]
	Band 38	[22.00,24.00]	[25.00,27.00]	[22.85,24.85]
	Band 41	[22.00,24.00]	[24.00,26.00]	[21.85,23.85]
n2		[23.00,25.00]	[22.00,24.00]	[19.85,21.85]
n5		[23.00,25.00]	/	[17.85,19.85]
n7		[23.00,25.00]	[26.00,28.00]	[22.85,24.85]
n25		[23.00,25.00]	[22.00,24.00]	[19.85,21.85]
n38		[23.00,25.00]	[26.00,28.00]	[23.85,25.85]
n41		[26.00,28.00]	[28.00,30.00]	[25.85,27.85]
n66		[23.00,25.00]	[21.00,23.00]	[18.85,20.85]
n71		[23.00,25.00]	/	[15.85,17.85]
n77(3450-3550 MHz)		[24.00,26.00]	[27.00,29.00]	[24.85,26.85]
n77(3700-3980 MHz)		[25.00,27.00]	[28.00,30.00]	[25.85,27.85]
n78(3450-3550 MHz)		[24.00,26.00]	[27.00,29.00]	[24.85,26.85]
n78(3700-3800 MHz)		[25.00,27.00]	[28.00,30.00]	[25.85,27.85]
Bluetooth		[14.00,16.00]	[18.00,20.00]	[15.85,17.85]
WLAN 2.4G Main Antenna		[26.00,28.00]	[30.00,32.00]	[27.85,29.85]
WLAN 2.4G Aux Antenna		[26.00,28.00]	[30.00,32.00]	[27.85,29.85]
U-NII-1 Main Antenna		[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-1 Aux Antenna		[15.00,17.00]	[17.00,19.00]	[14.85,16.85]
U-NII-1 MIMO Antenna		[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-2A Main Antenna		[14.00,16.00]	[14.00,16.00]	[11.85,13.85]
U-NII-2A Aux Antenna		[15.00,17.00]	[16.00,18.00]	[13.85,15.85]
U-NII-2A MIMO Antenna		[15.00,17.00]	[16.00,18.00]	[13.85,15.85]

U-NII-2C Main Antenna	[15.00,17.00]	[16.00,18.00]	[13.85,15.85]
U-NII-2C Aux Antenna	[17.00,19.00]	[19.00,21.00]	[16.85,18.85]
U-NII-2C MIMO Antenna	[15.00,17.00]	[16.00,18.00]	[13.85,15.85]
U-NII-3 Main Antenna	[15.00,17.00]	[16.00,18.00]	[13.85,15.85]
U-NII-3 Aux Antenna	[17.00,19.00]	[18.00,20.00]	[15.85,17.85]
U-NII-3 MIMO Antenna	[15.00,17.00]	[17.00,19.00]	[14.85,16.85]
U-NII-5 Main Antenna	[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-5 Aux Antenna	[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-5 MIMO Antenna	[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-6 Main Antenna	[14.00,16.00]	[14.00,16.00]	[11.85,13.85]
U-NII-6 Aux Antenna	[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-6 MIMO Antenna	[14.00,16.00]	[15.00,17.00]	[12.85,14.85]
U-NII-7 Main Antenna	[12.00,14.00]	[13.00,15.00]	[10.85,12.85]
U-NII-7 Aux Antenna	[14.00,16.00]	[14.00,16.00]	[11.85,13.85]
U-NII-7 MIMO Antenna	[13.00,15.00]	[14.00,16.00]	[11.85,13.85]
U-NII-8 Main Antenna	[16.00,18.00]	[17.00,19.00]	[14.85,16.85]
U-NII-8 Aux Antenna	[13.00,15.00]	[15.00,17.00]	[12.85,14.85]
U-NII-8 MIMO Antenna	[13.00,15.00]	[15.00,17.00]	[12.85,14.85]

Note1: ERP= EIRP -2.15dB.

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

For 300MHz to 6000MHz

Evolution mode	Maximum power (dBm)	Maximum power (mw)	Distance (cm)	Threshold Power (mW)	Power / Limit	Verdict
WCDMA B2	25.00	316.23	20	3060.00	0.103	Pass
WCDMA B4	25.00	316.23	20	3060.00	0.103	Pass
WCDMA B5	25.00	316.23	20	1731.96	0.183	Pass
LTE B2	24.00	251.19	20	3060.00	0.082	Pass
LTE B4	24.00	251.19	20	3060.00	0.082	Pass
LTE B5	24.00	251.19	20	1731.96	0.145	Pass
LTE B7	24.00	251.19	20	3060.00	0.082	Pass
LTE B12	24.00	251.19	20	1460.64	0.172	Pass
LTE B13	24.00	251.19	20	1605.48	0.156	Pass
LTE B14	24.00	251.19	20	1627.92	0.154	Pass
LTE B17	24.00	251.19	20	1460.64	0.172	Pass
LTE B25	24.00	251.19	20	3060.00	0.082	Pass
LTE B26(Part22)	24.00	251.19	20	1731.96	0.145	Pass
LTE B26(Part90)	24.00	251.19	20	1680.96	0.149	Pass
LTE B66	24.00	251.19	20	3060.00	0.082	Pass

LTE B71	24.00	251.19	20	1423.92	0.176	Pass
LTE B38	24.85	305.49	20	3060.00	0.100	Pass
LTE B41	24.00	251.19	20	3060.00	0.082	Pass
n2	25.00	316.23	20	3060.00	0.103	Pass
n5	25.00	316.23	20	1823.76	0.173	Pass
n7	25.00	316.23	20	3060.00	0.103	Pass
n25	25.00	316.23	20	3060.00	0.103	Pass
n38	25.85	384.59	20	3060.00	0.126	Pass
n41	28.00	630.96	20	3060.00	0.206	Pass
n66	25.00	316.23	20	3060.00	0.103	Pass
n71	25.00	316.23	20	1423.92	0.222	Pass
n77(3450-3550 MHz)	26.85	484.17	20	3060.00	0.158	Pass
n77(3700-3980 MHz)	27.85	609.54	20	3060.00	0.199	Pass
n78(3450-3550 MHz)	26.85	484.17	20	3060.00	0.158	Pass
n78(3700-3800 MHz)	27.85	609.54	20	3060.00	0.199	Pass
Bluetooth	17.85	60.95	20	3060.00	0.020	Pass
MAX WLAN 2.4G	29.85	966.05	20	3060.00	0.316	Pass
MAX WLAN 5G	19.00	79.43	20	3060.00	0.026	Pass

For 6000MHz to 10000MHz

Evolution mode	Distance (cm)	$\lambda / 2 \pi$ (m)	$\lambda / 2 \pi$ (cm)	$R >$ $\lambda / 2 \pi$
Max WLAN 6G	20	0.007	0.700	Yes

Evolution mode	Frequency (MHz)	Maximum power (dBm)	Maximum power (mw)	Distance (cm)	Threshold Power (mW)	Power / Limit	Verdict
Max WLAN 6G	7125	18	0.063	20	76.800	0.001	Pass

5.4 Collocated Power Calculation

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of WWAN + 2.4GWIFI + BT	Verdict
n71	663 ~ 698 MHz	0.222	0.558	Pass
Bluetooth	2400 ~ 2483.5 MHz	0.020		
MAX WLAN 2.4G	2412 ~ 2462 MHz	0.316		

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of WWAN + 5GWIFI + BT	Verdict
n71	663 ~ 698 MHz	0.222	0.265	Pass
Bluetooth	2400 ~ 2483.5 MHz	0.020		
MAX WLAN 5G	5150 ~ 5850 MHz	0.023		

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of WWAN + 6GWIFI + BT	Verdict
n71	663 ~ 698 MHz	0.222	0.243	Pass
Bluetooth	2400 ~ 2483.5 MHz	0.020		
MAX WLAN 6G	5925 ~ 7125 MHz	0.001		

Note:

- $\Sigma(\text{Power / Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN+BT+2.4GWIFI & WWAN+BT+5GWIFI & WWAN+BT+6GWIFI.
- Both of the WWAN/BT/2.4GHz/5GHz/6GHz can transmit simultaneously, the formula of calculated the Power is

$$CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$$

CP = Calculation power
LP = Limit of power
- The worst-case situation is 0.558, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
- The DUT work frequency range used is 663 ~ 698 MHz, 2400 MHz ~ 2483.5 MHz, 5150 MHz~ 5250 MHz and 5725 MHz ~ 5850 MHz and 5925 MHz ~ 7125 the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

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--END OF REPORT--