



EMF TEST REPORT

Product Name: Smart LTE Terminal

Model Number: M3, M3A, M3E, M3U, M3L, M3P, M3 Pro, M3 Plus, M3 PRO, M3 Ultra, M3+

FCC ID: 2AYEZ-M3

Issued For : Telo Communication (Shenzhen) Co., Ltd
13th Floor, Building B, Union R&D Center, No. 381
Guangshen Road, Bao'an District, Shenzhen, China.

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25K141HA01

Sample Received Date: Dec. 19, 2025

Date of Test: Dec. 19, 2025 ~ Dec. 30, 2025

Date of Issue: Dec. 30, 2025

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



TEST REPORT CERTIFICATION

Applicant: Telo Communication (Shenzhen) Co., Ltd
Address: 13th Floor, Building B, Union R&D Center, No. 381 Guangshen Road, Bao'an District, Shenzhen, China.
Manufacturer: Telo Communication (Shenzhen) Co., Ltd
Address: 13th Floor, Building B, Union R&D Center, No. 381 Guangshen Road, Bao'an District, Shenzhen, China.
Product Name: Smart LTE Terminal
Trademark: TELOX
Model Number: M3, M3A, M3E, M3U, M3L, M3P, M3 Pro, M3 Plus, M3 PRO, M3 Ultra, M3+
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





TABLE OF CONTENTS

1 . GENERAL INFORMATION	5
1.1 GENERAL DESCRIPTION OF THE EUT	5
1.2 TEST LABORATORY	6
2 . FCC 47CFR § 2.1091 REQUIREMENT	7
2.1 TEST STANDARDS	7
2.2 LIMIT	7
2.3 EUT OPERATION CONDITION	8
2.4 CLASSIFICATION	8
2.5 TEST RESULT	9



Revision History

Rev.	Issue Date	Revisions
00	Dec. 30, 2025	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Smart LTE Terminal	
Test Model Number:	M3	
Series Number:	M3A, M3E, M3U, M3L, M3P, M3 Pro, M3 Plus, M3 PRO, M3 Ultra, M3+	
Model Difference:	Customers are different, the model name is not the same.	
Frequency Bands:	Bluetooth	2402-2480MHz
	2.4G WLAN	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz
	5G WLAN	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80): 5.290GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80): 5.775GHz
	GSM	850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz
	WCDMA	Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
	LTE	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5: 824~849MHz LTE Band 7:2500~2570MHz LTE Band 12: 699-716MHz LTE Band 13: 777-787MHz LTE Band 38: 2570-2620MHz LTE Band 40: 2305-2315MHz/ 2350-2360MHz LTE Band 66: 1710-1780MHz
Rating:	Input: 12-24V\1A	
Hardware Version:	N/A	
Software Version:	M6PRO_US_V1P_20250808	



1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
0.3-3.0	614	1.63	*(100)
3.0-30	1842/f	4.89/f	*(900/f ²)
30-300	61.4	0.163	1.0
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*(180/f ²)
30-300	27.5	0.073	0.2
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

* = Plane-wave equivalent power density.

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 the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
GSM 850	33±1dBm
GSM 1900	30±1dBm
WCDMA B2	24±1dBm
WCDMA B4	23.5±1dBm
WCDMA B5	23.5±1dBm
LTE B2	24±1dBm
LTE B4	24±1dBm
LTE B5	24±1dBm
LTE B7	23±1dBm
LTE B12	23.5±1dBm
LTE B13	24±1dBm
LTE B38	24±1dBm
LTE B40	14.5±1dBm
LTE B66	24±1dBm
BT-GFSK	2.5±1dBm
BT- $\pi/4$ -DQPSK	1.5±1dBm
BT-8DPSK	1.5±1dBm
BLE 1M-GFSK	-4.5±1dBm
BLE 2M-GFSK	-4.5±1dBm
2.4G WIFI-802.11b	16±1dBm
2.4G WIFI-802.11g	15.5±1dBm
2.4G WIFI-802.11n(HT20)	15±1dBm
2.4G WIFI-802.11n(HT40)	15.5±1dBm
5G WIFI-802.11a	14±1dBm
5G WIFI-802.11n(HT20)	13±1dBm
5G WIFI-802.11n(HT40)	13±1dBm
5G WIFI-802.11ac(VHT20)	14±1dBm
5G WIFI-802.11ac(VHT80)	14±1dBm
5G WIFI-802.11ac(VHT40)	14±1dBm



The MPE result of worst mode:

RF Function	Max Turn up Power (dBm)	Duty cycle factor	Max Power (dBm)	Max Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
GSM 850	34	-9.03	24.97	314.05	1.89	1.55	0.097	0.549	0.176	Pass
GSM 1900	31	-9.03	21.97	157.40	1.97	1.57	0.049	1.000	0.049	Pass
WCDMA B2	25	0	25	316.23	1.97	1.57	0.099	1.000	0.099	Pass
WCDMA B4	24.5	0	24.5	281.84	2.05	1.60	0.090	1.000	0.090	Pass
WCDMA B5	24.5	0	24.5	281.84	1.89	1.55	0.087	0.549	0.158	Pass
LTE B2	25	0	25	316.23	1.97	1.57	0.099	1.000	0.099	Pass
LTE B4	25	0	25	316.23	2.05	1.60	0.101	1.000	0.101	Pass
LTE B5	25	0	25	316.23	1.89	1.55	0.097	0.549	0.177	Pass
LTE B7	24	0	24	251.19	1.98	1.58	0.079	1.000	0.079	Pass
LTE B12	24.5	0	24.5	281.84	0.73	1.18	0.066	0.466	0.142	Pass
LTE B13	25	0	25	316.23	2.02	1.59	0.100	0.518	0.193	Pass
LTE B38	25	-1.99	23.01	199.99	2.08	1.61	0.064	1.000	0.064	Pass
LTE B40	15.5	-1.99	13.51	22.44	0.72	1.18	0.005	1.000	0.005	Pass
LTE B66	25	0	25	316.23	1.52	1.42	0.089	1.000	0.089	Pass

RF Function	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BLE	-3.50	0.45	0.72	1.18	0.0001	1	0.0001	Pass
BT	3.50	2.24	0.72	1.18	0.001	1	0.001	Pass
2.4G WIFI	17.00	50.12	0.72	1.18	0.012	1	0.012	Pass
5G WIFI	15.00	31.62	1.88	1.54	0.010	1	0.010	Pass

Multiple transmission: LTE B13+2.4G WIFI=0.193+0.012=0.205 < 1

Note: The RF Exposure is less than the limit, complies with the exemption requirements.

*****END OF THE REPORT*****