

FCC Radio Test Report

FCC ID: 2APJ4-SLM770A

This report concerns: **Original Grant**

Project No. : 2402C072
Equipment : 4G LTE Module
Brand Name : MEIGLink
Test Model : SLM770A
Series Model : N/A
Applicant : MeiG Smart Technology Co., Ltd
Address : 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Manufacturer : MeiG Smart Technology Co., Ltd
Address : 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Date of Receipt : Feb. 07, 2024
Date of Test : Feb. 18, 2024 ~ Apr. 29 2024
Issued Date : Apr. 30, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024020714 and SSL2024020715
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2402C072	R00	Original Report.	Apr. 30, 2024	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

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

Table for Filed Antenna:

For Part 22:

Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
ShenZhen VLG Wireless TECHNOLOGY CO.,LTD	45-V1497-057-01	Dipole	SMA	-1.1	GSM 850
				-1.1	WCDMA Band V
				-1.1	LTE Band 5

For Part 24:

Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
ShenZhen VLG Wireless TECHNOLOGY CO.,LTD	45-V1497-057-01	Dipole	SMA	-1.1	PCS 1900
				-1.1	WCDMA Band II
				-1.1	LTE Band 2

For Part 27:

Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
ShenZhen VLG Wireless TECHNOLOGY CO.,LTD	45-V1497-057-01	Dipole	SMA	-1.5	WCDMA Band IV
				-1.5	LTE Band 4
				1.9	LTE Band 7
				0.2	LTE Band 40 (2305-2315MHz)
				0.4	LTE Band 40 (2350-2355MHz)
				-1.4	LTE Band 66

Note: The antenna gain is provided by the manufacturer.

2. TEST RESULTS

For GSM:

Band	Frequency (MHz)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
GSM 850	824.2	33.5	-1.1	0.7762	1737.80	0.3457	0.5495	Complies
PCS 1900	1850.2	31.5	-1.1	0.7762	1096.48	0.2181	1.0000	Complies

For WCDMA:

Band	Frequency (MHz)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
WCDMA Band II	1852.4	25	-1.1	0.7762	245.47	0.0488	1.0000	Complies
WCDMA Band IV	1712.4	25	-1.5	0.7079	223.87	0.0445	1.0000	Complies
WCDMA Band V	826.4	25	-1.1	0.7762	245.47	0.0488	0.5509	Complies

For LTE:

Band	Frequency (MHz)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
Band 2	1850.7	25.7	-1.1	0.7762	288.40	0.0574	1.2338	Complies
Band 4	1710.7	25.7	-1.5	0.7079	263.03	0.0523	1.0000	Complies
Band 5	824.7	25.7	-1.1	0.7762	288.40	0.0574	0.5498	Complies
Band 7	2502.5	25.7	1.9	1.5488	575.44	0.1145	1.0000	Complies
Band 40 (2305-2315 MHz)	2307.5	25.7	0.2	1.0471	389.05	0.0774	1.0000	Complies
Band 40 (2350-2355 MHz)	2352.5	25.7	0.4	1.0965	407.38	0.0810	1.0000	Complies
Band 66	1710.7	25.7	-1.4	0.7244	269.15	0.0535	1.0000	Complies

Note: The calculated distance is 20 cm.

End of Test Report