

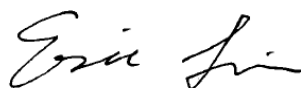
1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2211002146AT
FCC ID: 2APJ4-SLM758
Applicant: MeiG Smart Technology Co.,Ltd
Address of Applicant: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Manufacturer: MeiG Smart Technology Co.,Ltd
Address of Manufacturer: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: SLM758
Model No.: SLM758
Trade Mark: MEIGLink
Standard(s) : FCC Rules 47 CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2022-11-04
Date of Test: 2022-11-07 to 2022-11-11
Date of Issue: 2022-11-15

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



Eric Lin
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	C2PC	2022-11-15	Based on FA970101 Added 802.11AC

Authorized for issue by:			
		<i>Damon Zhou</i>	
		Damon Zhou/Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin/Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 3.8V
Serial Number:	758AD16CYB120900978
Firmware version:	SLM758WQ_EQ000_2774.44D1F88.A55F9B6_210114_100_V01_T12
IMEI:	868727049053779

3.2 Details of E.U.T.

5G WiFi

Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz U-NII-2A: 5260-5320MHz U-NII-2C: 5500-5700MHz U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz U-NII-2A: 5270-5310MHz U-NII-2C: 5510-5670MHz U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz U-NII-2A: 5290MHz U-NII-2C: 5530-5610MHz U-NII-3: 5775MHz
Moudulation Type:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11ac(VHT20): 20MHz 802.11ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz
DFS Function:	Slave without Radar detection
Antenna Type:	Dipole Antenna
Antenna Gain:	1dBi (Provided by manufacturer)



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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4 FCC Radiofrequency radiation exposure limits

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

The MPE was calculated at 20cm to show compliance with the power density limit. The following formula was used to calculate the Power Density:

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

Where:

- S = Power Density
- P = Output Power at Antenna Terminals
- G = Gain of Transmit Antenna (linear gain)
- R = Distance from Transmitting Antenna



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR221100214601, FR970101A, FR970101B, FR970101C, FR970101D, FR970101E, FZ970101.



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5.2 RF Exposure Calculation

Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
WCDMA Band II	1852.4	7.00	24.00	31.000	1.259	1258.925	0.251	1.000
WCDMA Band IV	1712.4	5.50	24.00	29.500	0.891	891.251	0.177	1.000
WCDMA Band V	826.4	6.50	24.00	30.500	1.122	1122.018	0.223	0.551
LTE Band 2	1850.7	7.00	24.50	31.500	1.413	1412.538	0.281	1.000
LTE Band 4	1710.7	5.50	24.50	30.000	1.000	1000.000	0.199	1.000
LTE Band 5	824.7	6.50	24.50	31.000	1.259	1258.925	0.251	0.519
LTE Band 7	2502.5	7.00	24.50	31.500	1.413	1412.538	0.281	1.000
LTE Band 12	699.7	6.00	24.50	30.500	1.122	1122.018	0.223	0.466
LTE Band 13	779.5	6.00	24.50	30.500	1.122	1122.018	0.223	0.518
LTE Band 17	706.5	6.00	24.50	30.500	1.122	1122.018	0.223	0.469
2.4GHz WLAN	2412.0	0.00	16.50	16.500	0.045	44.668	0.009	1.000
5.2GHz WLAN	5180.0	1.00	14.00	15.000	0.032	31.623	0.006	1.000
5.3GHz WLAN	5260.0	1.00	14.00	15.000	0.032	31.623	0.006	1.000
5.5GHz WLAN	5500.0	1.00	14.00	15.000	0.032	31.623	0.006	1.000
5.8GHz WLAN	5745.0	1.00	14.00	15.000	0.032	31.623	0.006	1.000
Bluetooth	2402.0	0.00	10.00	10.000	0.010	10.000	0.002	1.000

Note: For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.



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Collocated Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WCDMA Band II	1852.4	6.00	24.00	30.0	1.00	1000.00	0.199	1.000	0.199
WCDMA Band IV	1712.4	5.50	24.00	29.5	0.89	891.25	0.177	1.000	0.177
WCDMA Band V	826.4	6.00	24.00	30.0	1.00	1000.00	0.199	0.551	0.361
LTE Band 2	1850.7	6.00	24.50	30.5	1.12	1122.02	0.223	1.000	0.223
LTE Band 4	1710.7	5.50	24.50	30.0	1.00	1000.00	0.199	1.000	0.199
LTE Band 5	824.7	6.00	24.50	30.5	1.12	1122.02	0.223	0.519	0.407
LTE Band 7	2502.5	6.00	24.50	30.5	1.12	1122.02	0.223	1.000	0.223
LTE Band 12	699.7	6.00	24.50	30.5	1.12	1122.02	0.223	0.466	0.479
LTE Band 13	779.5	6.00	24.50	30.5	1.12	1122.02	0.223	0.518	0.431
LTE Band 17	706.5	6.00	24.50	30.5	1.12	1122.02	0.223	0.469	0.476
2.4GHz WLAN	2412.0	0.00	16.50	16.5	0.04	44.67	0.009	1.000	0.009
5.2GHz WLAN	5180.0	1.00	14.00	15.0	0.03	31.62	0.006	1.000	0.006
5.3GHz WLAN	5260.0	1.00	14.00	15.0	0.03	31.62	0.006	1.000	0.006
5.5GHz WLAN	5500.0	1.00	14.00	15.0	0.03	31.62	0.006	1.000	0.006
5.8GHz WLAN	5745.0	1.00	14.00	15.0	0.03	31.62	0.006	1.000	0.006
Bluetooth	2402.0	0.00	10.00	10.0	0.01	10.00	0.002	1.000	0.002

WWAN Power Density / Limit	WLAN2.4GHz Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) Of WWAN+WLAN2.4GHz+Bluetooth
0.479	0.009	0.002	0.490
WWAN Power Density / Limit	WLAN5GHz Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) Of WWAN+WLAN5GHz+Bluetooth
0.479	0.006	0.002	0.487

Note:

1. For collocation analysis, LTE Band 12 is chosen for summation due to the highest (power density/limit) among all WWAN wireless modes.
2. Σ(Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN + Bluetooth.
3. Considering the WWAN module collocation with the WLAN and Bluetooth transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant.



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Conclusion:

Based on 47 CFR §2.1091 and FCC KDB 447498 D01 V06, the analysis concludes that this product when transmitting in standalone within a host device, is compliant with the FCC RF exposure requirements in mobile exposure condition, provided the conducted power and antenna gain do not exceed the limits for each given frequency band per wireless technology as follow table:

Device	Band	Frequency (MHz)	Maximum Conducted Power (dBm)	Standalone Maximum Antenna Gain (dBi)	Collocated Maximum Antenna Gain (dBi)
WWAN	WCDMA Band II	1852.4	24.00	7.00	6.00
	WCDMA Band IV	1712.4	24.00	5.50	5.50
	WCDMA Band V	826.4	24.00	6.50	6.00
	LTE Band 2	1850.7	24.50	7.00	6.00
	LTE Band 4	1710.7	24.50	5.50	5.50
	LTE Band 5	824.7	24.50	6.50	6.00
	LTE Band 7	2502.5	24.50	7.00	6.00
	LTE Band 12	699.7	24.50	6.00	6.00
	LTE Band 13	779.5	24.50	6.00	6.00
WLAN/BT	WLAN2.4GHz	2412.0	16.50	0.00	0.00
	WLAN5GHz	5180.0	14.00	1.00	1.00
	Bluetooth	2402.0	10.00	0.00	0.00

--End of the Report--



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 (86-512)57355888 (86-512)57370818 www.sgs.com.cn
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com