



TEST REPORT

REPORT NUMBER: I20W00023-Rev1

ON

Type of Equipment: IoT Module
Type of Designation: L710HG
Manufacturer: Shanghai MobileTek Communication Ltd.
FCC ID: 2AK9D-L710HG

ACCORDING TO

FCC CFR 47 Part 2.1091 《Radiofrequency radiation exposure evaluation: mobile devices》
FCC CFR 47 Part1.1310 《Radiofrequency radiation exposure limits》

Chongqing Academy of Information and Communication Technology

Month date, year

Jan, 12, 2021

Signature

Zhang Yan

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



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1. Test Laboratory

1.1. Testing Location

Company Name:	Chongqing Academy of Information and Communications Technology
Address:	No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777
Website:	http://www.cqcatr.com

1.2. Testing Environment

Normal Temperature:	21.3℃
Relative Humidity:	65%

1.3. Project Data

Testing Start Date:	2021-01-12
Testing End Date:	2021-01-12

1.4. Signature



2021-01-12

Fu Bohao
(Prepared this test report)

Date



2021-01-12

Wang Lili
(Reviewed this test report)

Date



2021-01-12

Zhang Yan
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Shanghai MobileTek Communication Ltd.
Address /Post:	Free Trade Zone No.33, No.17 building 6H3 Xiya Road, Shanghai.
Telephone:	18616835910
Fax:	--
Email:	b.yang@mobiletek.cn
Contact Person:	bin yang

2.2. Manufacturer Information

Company Name:	Shanghai MobileTek Communication Ltd.
Address /Post:	Free Trade Zone No.33, No.17 building 6H3 Xiya Road, Shanghai
Telephone:	18616835910
Fax:	--
Email:	b.yang@mobiletek.cn
Contact Person:	bin yang

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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description:	IoT Module
Model name:	L710HG
GSM Frequency Band	GPRS850/1900,EGPRS850/1900
NB2 Frequency Band	Band2/4/5/12/13/26
CATM1 Frequency Band	Band2/4/5/12/13/26
GPRS Multislot Class	12
EGPRS Multislot Class	12
Note: Photographs of EUT are shown in ANNEX A of this test report.	

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S4	866884045632254	V4	L710v09.01b01HGN_FGP.01	2020-12-16

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

EUT ID*	SN	Description
NA	NA	NA

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Applicable Standards

The MPE report was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 2.1091.

FCC CFR 47 Part 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

4.2. Test Limits

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

MPE for the upper tier (people in controlled environments)

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 Exposure				
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 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
1500-100000	--	--	1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

For the DUT, the limits for the general public when an RF safety program is unavailable.

5. Test Results

5.1. RF Power Output

Frequency Band	Highest Averaged Power Output(dBm)	Highest Frame-Averaged Output Power (dBm)	Antenna Gain(dBi)
GPRS 850 3TS	31.00	26.74	4
GPRS 1900 4TS	31.00	27.99	3
EGPRS 850 3TS	31.00	26.74	4
EGPRS 1900 4TS	31.00	27.99	3
NB2 Band2	23.55	23.55	3
NB2 Band4	23.96	23.96	4
NB2 Band5	22.91	22.91	4
NB2 Band12	23.31	23.31	4
NB2 Band13	23.64	23.64	4
NB2 Band26 (824-849MHz)	22.91	22.91	4
NB2 Band26 (814-824MHz)	22.93	22.93	4
CATM1 Band2	24.74	24.74	3
CATM1 Band4	24.74	24.74	4
CATM1 Band5	24.55	24.55	4
CATM1 Band12	24.58	24.58	4
CATM1 Band13	25.42	25.42	4
CATM1 Band26 (824-849MHz)	24.55	24.55	4
CATM1 Band26 (814-824MHz)	24.39	24.39	4

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

2) According to the conducted power as above, the measurements are performed with 1Txslots for 850MHz and 1900MHz.

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5.2. Calculation Information

For conservative evaluation consideration, only maximum power of each frequency band based on the tighter limits respectively are used to calculate the boundary power density.

Based on the FCC KDB 447498 D01 and 47 CFR §2.1091, the DUT is evaluated as a mobile device.

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

Where

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

5.3. Results

Frequency range	Limit(mW/cm ²)	Results(mW/cm ²)	Verdict
GPRS 850 3TS	0.549	0.236	Pass
GPRS 1900 4TS	1.000	0.250	Pass
EGPRS 850 3TS	0.549	0.236	Pass
EGPRS 1900 4TS	1.000	0.250	Pass
NB2 Band2	1.000	0.090	Pass
NB2 Band4	1.000	0.124	Pass
NB2 Band5	0.549	0.098	Pass
NB2 Band12	0.466	0.107	Pass
NB2 Band13	0.518	0.116	Pass
NB2 Band26 (824-849MHz)	0.549	0.098	Pass
NB2 Band26 (814-824MHz)	0.543	0.098	Pass
CATM1 Band2	1.000	0.118	Pass
CATM1 Band4	1.000	0.149	Pass
CATM1 Band5	0.549	0.142	Pass
CATM1 Band12	0.466	0.143	Pass
CATM1 Band13	0.518	0.174	Pass
CATM1 Band26 (824-849MHz)	0.549	0.142	Pass
CATM1 Band26 (814-824MHz)	0.543	0.137	Pass

5.4. Result of GPRS 850

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.2 ~ 848.8 MHz; The maximum conducted is 26.74 dBm. The maximum gain is 4.00 dBi. Therefore, maximum limit for general public RF exposure: $824.2/1500=0.549 \text{ mW/cm}^2$.

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

P= input power of the antenna (472.063 mW)

G = antenna gain (2.512 numeric)

r = distance to the center of radiation of antenna (in meter)= 20 cm

$$S=(472.063*2.512)/(4 \pi *20^2)=0.236\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.549 mW/cm^2 limit for uncontrolled exposure.

5.5. Result of GPRS 1900

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.2 ~ 1909.8 MHz; The maximum conducted is 27.99 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm^2 .

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

P= input power of the antenna (629.506 mW)

G = antenna gain (1.995 numeric)

r = distance to the center of radiation of antenna (in meter)= 20 cm

$$S=(629.506*1.995)/(4 \pi *20^2)=0.250 \text{ mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 1 mW/cm^2 limit for uncontrolled exposure.

5.6. Result of EGPRS 850

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.2 ~ 848.8 MHz; The maximum conducted is 26.74 dBm. The maximum gain is 4.00 dBi. Therefore, maximum limit for general public RF exposure: $824.2/1500=0.549 \text{ mW/cm}^2$.

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

P= input power of the antenna (472.063 mW)

G = antenna gain (2.512 numeric)

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r = distance to the center of radiation of antenna (in meter)= 20 cm

$$S=(472.063*2.512)/(4 \pi*20^2)=0.236 \text{ mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.549 mW/cm² limit for uncontrolled exposure.

5.7. Result of EGPRS 1900

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.2 ~ 1909.8 MHz; The maximum conducted is 27.99 dBm. The maximum gain is 3.00 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (629.506 mW)

G = antenna gain (1.995 numeric)

r = distance to the center of radiation of antenna (in meter)= 20 cm

$$S=(629.506*1.995)/(4 \pi*20^2)=0.250 \text{ mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 1 mW/cm² limit for uncontrolled exposure.

5.8. Result of NB2 Band 2

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.0 ~ 1909.9 MHz; The maximum conducted is 23.55dBm. The maximum gain is 3.0 dBi. Therefore, maximum limit for general public RF exposure:1.0 mW/cm².

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

P= input power of the antenna (226.464 mW)

G = antenna gain (1.995numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(226.464*1.995)/(4 \pi*20^2)=0.090 \text{ mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 1.0 mW/cm² limit for uncontrolled exposure.

5.9. Result of NB2 Band 4

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1710.0 ~ 1754.9MHz; The maximum conducted is 23.96dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (248.886 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(248.886*2.512)/(4 \pi *20^2)=0.124\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 1mW/cm² limit for uncontrolled exposure.

5.10. Result of NB2 Band 5

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.0 ~ 848.9 MHz; The maximum conducted is 22.91dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 824.0/1500=0.549 mW/cm².

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

P= input power of the antenna (195.434 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(195.434*2.512)/(4 \pi *20^2)=0.098\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.549mW/cm² limit for uncontrolled exposure.

5.11. Result of NB2 Band 12

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 699.0 ~ 715.9 MHz; The maximum conducted is 23.31dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 699.0/1500=0.466 mW/cm².

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

P= input power of the antenna (214.289 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(214.289*2.512)/(4 \pi *20^2)=0.107\text{mW/cm}^2$$

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Therefore, at 20 cm the spectral power density is less than the 0.466mW/cm² limit for uncontrolled exposure.

5.12. Result of NB2 Band 13

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 777.0 ~ 848.9 MHz; The maximum conducted is 23.64dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 777.0/1500=0.518 mW/cm².

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

P= input power of the antenna (231.206 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(231.206*2.512)/(4 \pi *20^2)=0.116\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.518mW/cm² limit for uncontrolled exposure.

5.13. Result of NB2 Band 26 (824-849MHz)

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.0 ~ 849.0 MHz; The maximum conducted is 22.91dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 824.0/1500=0.549 mW/cm².

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

P= input power of the antenna (195.434 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(195.434*2.512)/(4 \pi *20^2)=0.098\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.549mW/cm² limit for uncontrolled exposure.

5.14. Result of NB2 Band 26 (814-824MHz)

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 814.0 ~ 824.0 MHz; The maximum conducted is 22.93dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 814.0/1500=0.543 mW/cm².

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

P= input power of the antenna (196.336 mW)

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G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(196.336*2.512)/(4 \pi *20^2)=0.098\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.543mW/cm² limit for uncontrolled exposure.

5.15. Result of CATM1 Band 2

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1850.0 ~ 1909.9 MHz; The maximum conducted is 24.74 dBm. The maximum gain is 3.0 dBi. Therefore, maximum limit for general public RF exposure: 1.0 mW/cm².

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

P= input power of the antenna (297.852 mW)

G = antenna gain (1.995numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(297.852*1.995)/(4 \pi *20^2)=0.118\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 1.0 mW/cm² limit for uncontrolled exposure.

5.16. Result of CATM1 Band 4

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 1710.0 ~ 1754.9 MHz; The maximum conducted is 24.74 dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (297.852 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(297.852*2.512)/(4 \pi *20^2)=0.149\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 1 mW/cm² limit for uncontrolled exposure.

5.17. Result of CATM1 Band 5

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.0 ~ 848.9 MHz; The maximum conducted is 24.55dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 824.0/1500=0.549 mW/cm².

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

P= input power of the antenna (285.102 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(285.102*2.512)/(4 \pi *20^2)=0.142\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.549mW/cm² limit for uncontrolled exposure.

5.18. Result of CATM1 Band 12

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 699.0 ~ 715.9 MHz; The maximum conducted is 24.58dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 699.0/1500=0.466 mW/cm².

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

P= input power of the antenna (287.078 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(287.078*2.512)/(4 \pi *20^2)=0.143\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.466mW/cm² limit for uncontrolled exposure.

5.19. Result of CATM1 Band 13

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 777.0 ~ 786.9 MHz; The maximum conducted is 25.42 dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: 777.0/1500=0.518 mW/cm².

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

P= input power of the antenna (348.337 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(348.337*2.512)/(4 \pi *20^2)=0.174\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.518mW/cm² limit for uncontrolled exposure.

5.20. Result of CATM1 Band 26 (824-849MHz)

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 824.0 ~ 849.0 MHz; The maximum conducted is 24.55dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: $824.0/1500=0.549 \text{ mW/cm}^2$.

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

P= input power of the antenna (285.102 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(285.102*2.512)/(4 \pi *20^2)=0.142\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.549mW/cm^2 limit for uncontrolled exposure.

5.21. Result of CATM1 Band 26 (814-824MHz)

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 814.0 ~ 824.0 MHz; The maximum conducted is 24.39dBm. The maximum gain is 4.0 dBi. Therefore, maximum limit for general public RF exposure: $814.0/1500=0.543 \text{ mW/cm}^2$.

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

P= input power of the antenna (274.789 mW)

G = antenna gain (2.512numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

$$S=(274.789*2.512)/(4 \pi *20^2)=0.137\text{mW/cm}^2$$

Therefore, at 20 cm the spectral power density is less than the 0.543mW/cm^2 limit for uncontrolled exposure.



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ANNEX A: EUT photograph

See the document "L710HG -External Photos".



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

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