



FCC PART 15B TEST REPORT

No. 25T04Z100363-058

for

Luxshare Precision Limited

5G Mobile Phone

Model Name: TMRV08P5G

FCC ID: 2BNRMTMRV08P5G

with

Hardware Version: V1.0

Software Version: TMRV08P5G_0.02.01

Issued Date: 2025-06-04

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 CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100363-058	Rev.0	1 st edition	2025-06-04

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Testing Location

CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

1.2. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2025-03-27

Testing End Date: 2025-04-21

1.4. Signature



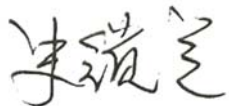
Zhang Ying

(Prepared this test report)



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(Reviewed this test report)



Shi Suolan

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2. Client Information

2.1. Applicant Information

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Sha Tsui, Kowloon.
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2.2. Manufacturer Information

Company Name: Luxshare Precision Limited
Address /Post: Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim
Sha Tsui, Kowloon.
Contact: Ri Sa
Email: Rui.Sha@luxshare-ict.com
Telephone: +8613917939276

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

3.1. About EUT

Description	5G Mobile Phone
Model Name	TMRV08P5G
FCC ID:	2BNRMTMRV08P5G

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT84a	861370070020602/ 861370070020610	V1.0	TMRV08P5G_0.02.01

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery	TM002	Jiade Energy Technology(Zhuhai) Co.,Ltd.
AE2	Charger	/	/
AE3	USB cable	HX-WT-58	WASHIN

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

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.4	UT84a + AE1 + AE2 + AE3	Charger
Set.5	UT84a + AE1 + AE3 + PC	USB

Note:

Equipment Under Test (EUT) is a model of GSM/UMTS/LTE/NR Mobile phone phone.

It supports

GSM Band GSM 850/900/1800/1900MHz

UMTS Band FDD Band I(W2100) /Band II(W1900) /FDD Band IV(W1700)/FDD V(W850) /FDD V III (W900)

LTE Band FDD Bands 1/2/3/4/5/7/8/12/13/14/17/20/25/26/28/32/38/39/40/41/48/66/71

NR Band n1/ n3/n7/n25/n28/n38/n41/n48/n66/n71/n78

It has USB memory and Wi-Fi (802.11a/b/g/n/ac/ax, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ax supports 20MHz, 40MHz and 80MHz bandwidth, 802.11ax supports 20MHz, 40MHz, 80MHz and 160MHz bandwidth).

The device contains receivers which tune and operate between 30MHz-960MHz in the following mode: GSM 850MHz, WCDMA850, LTE Band 12/13/14/26/71, NR Band n71. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst-case emissions are reported.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2023
ANSI C63.4	American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

Note: The test methods have no deviation with standards.

5. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	NA	Not applicable
	F	Fail

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	P	CTTL(huayuan North Road)
2	Conducted Emission	15.107(a)	B.2	P	CTTL(huayuan North Road)

6. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESW44	103023	R&S	2025-06-06	1 year
	EMI Antenna	VULB 9163	01222	SCHWARZBECK	2025-09-11	1 year
	EMI Antenna	3115	00167250	ETS-Lindgren	2026-04-11	2 years
3	Test Receiver	ESCI 3	100344	R&S	2026-04-01	2 years
4	LISN	ENV216	101200	R&S	2025-05-16	1 year
7	Universal Communication Tester	CMW500	116588	R&S	2026-01-25	1 year
9	Universal Communication Tester	E7515B	MY69192215	Keysight	2025-06-09	1 year

Test software information		
Test Item	Software	Version
Radiated Emission	EMC32	V11.50.00
Conducted Emission	EMC32	V8.53.00

7. Measurement Uncertainty

Where relevant, the following measurement uncertainty(worse case) levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Location 1: CTTL(huayuan North Road)

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.72dB($k=2$)
	1GHz-18GHz	4.84dB($k=2$)
Conducted Emission	150kHz-30MHz	AC Power Line: 3.08dB($k=2$)

ANNEX A: EUT photograph

Please refer to External photos and Internal photos documents for EUT photograph.

ANNEX B: MEASUREMENT RESULTS

B.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

B.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB/OTG mode of MS and charging mode of MS) at distances of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

B.1.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode.

The EUT was tested while operating in licensed band Rx mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in section 3.4, are investigated. Only the worst case emissions are reported.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

B.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

B.1.4 Test Condition

Frequency range (MHz)	RBW/VBW	Sweep Time (s)	Detector
30-1000	120kHz (IF Bandwidth)	5	Peak/Quasi-peak
Above 1000	1MHz/3MHz	15	Peak, Average

B.1.5 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + G_A + G_{\text{PL}}$$

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Summary of radiated emission:

Setup	Function	Conclusion
Set.4	Charger+Real Camera+ RX GSM 850M	Pass
Set.4	Charger+ Front Camera + RX WCDMA band 5	Pass
Set.4	Charger+MP4 + RX LTE band 12	Pass
Set.4	Charger+MP4 + RX LTE band 13	Pass
Set.4	Charger+MP4 + RX LTE band 14	Pass
Set.4	Charger+MP4 + RX LTE band 26	Pass
Set.4	Charger+ Real Camera + RX LTE band 71	Pass
Set.4	Charger+Front Camera + RX NR band 71	Pass
Set.5	USB TO PC	Pass

Note: Only the worst case emissions are reported.

Measurement results for Set.4, Charging + GSM 850MHz idle

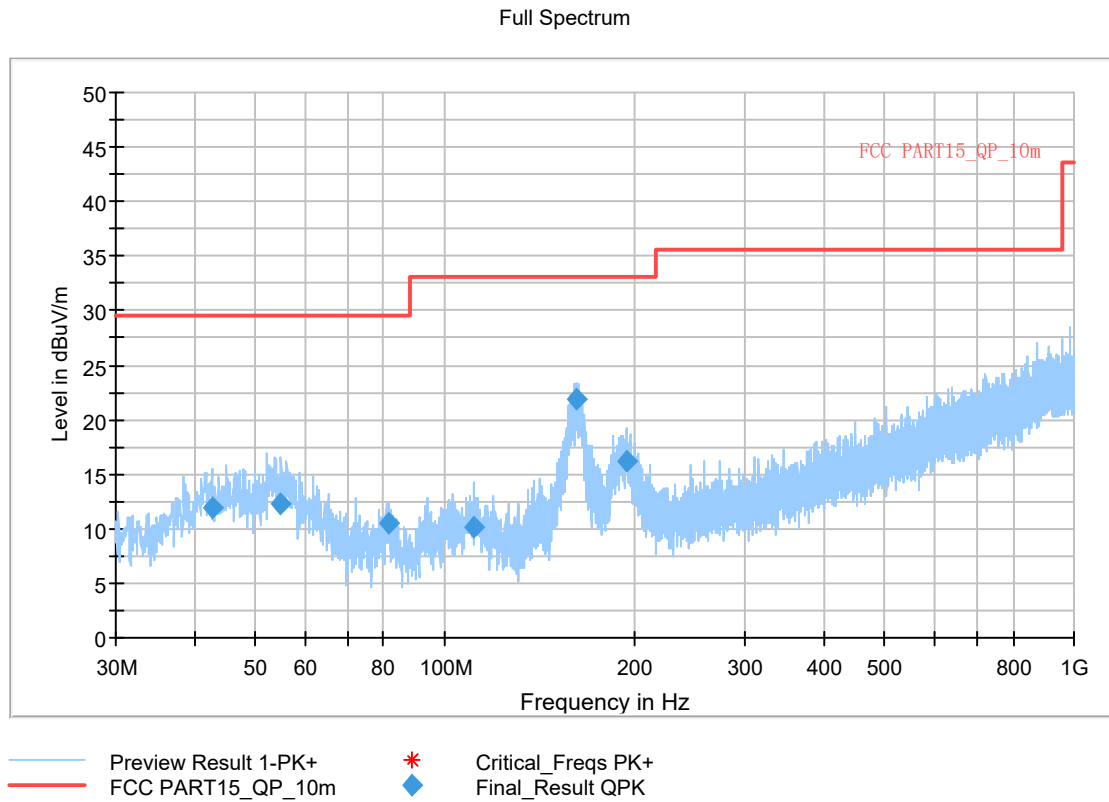


Figure A.1 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
42.658500	11.96	29.54	17.58	225.0	V	292.0
54.929000	12.23	29.54	17.31	175.0	V	225.0
81.458500	10.55	29.54	18.99	175.0	V	37.0
110.995000	10.12	33.06	22.94	125.0	V	-30.0
161.871500	21.81	33.06	11.25	119.0	V	-17.0
194.512000	16.20	33.06	16.86	175.0	V	54.0

Full Spectrum

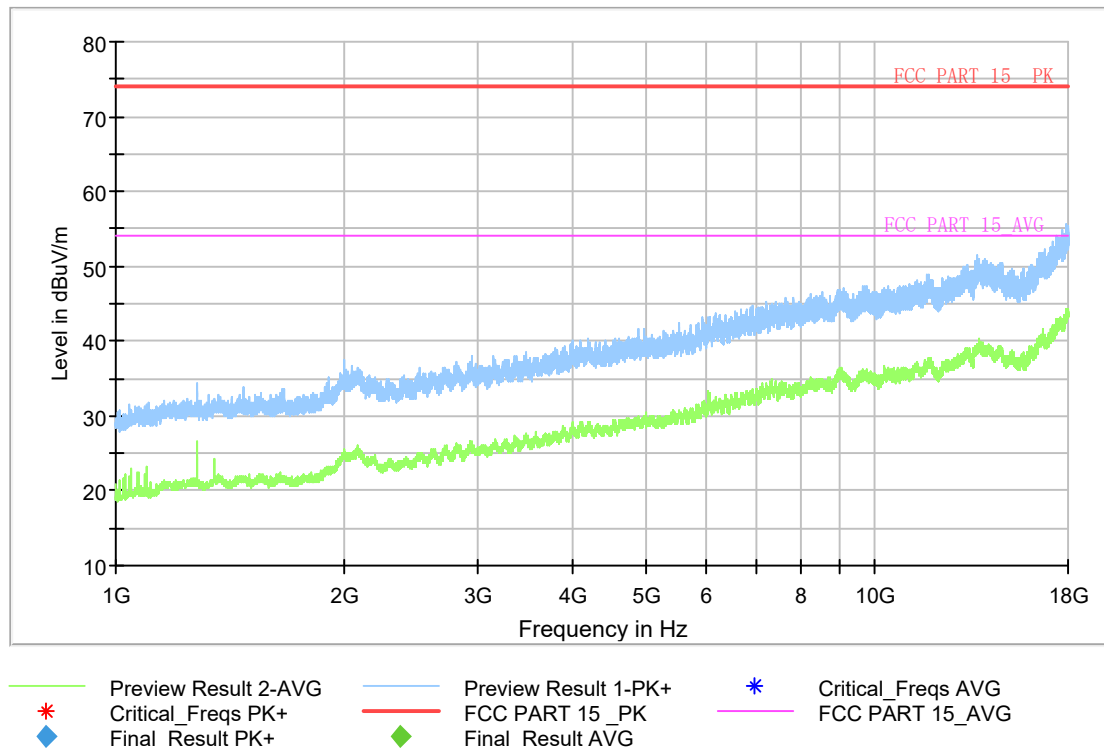


Figure A.2 Radiated Emission from 1GHz to 18GHz

Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17917.400	44.28	-26.80	42.30	28.78	54.00	9.72	H
17910.900	44.26	-26.80	42.30	28.76	54.00	9.74	V
17930.300	44.23	-26.80	42.30	28.73	54.00	9.77	V
17972.500	44.04	-26.80	42.30	28.54	54.00	9.96	V
17999.300	43.98	-26.80	42.30	28.48	54.00	10.02	H
17972.800	43.96	-26.80	42.30	28.46	54.00	10.04	H

Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17909.200	55.69	-26.80	42.30	40.19	74.00	18.31	V
17994.600	55.46	-26.80	42.30	39.96	74.00	18.54	V
17994.900	55.43	-26.80	42.30	39.93	74.00	18.57	V
17959.500	55.42	-26.80	42.30	39.92	74.00	18.58	V
17996.600	55.16	-26.80	42.30	39.66	74.00	18.84	V
17916.400	55.14	-26.80	42.30	39.64	74.00	18.86	V

Measurement results for Set.5, USB to PC transfer:

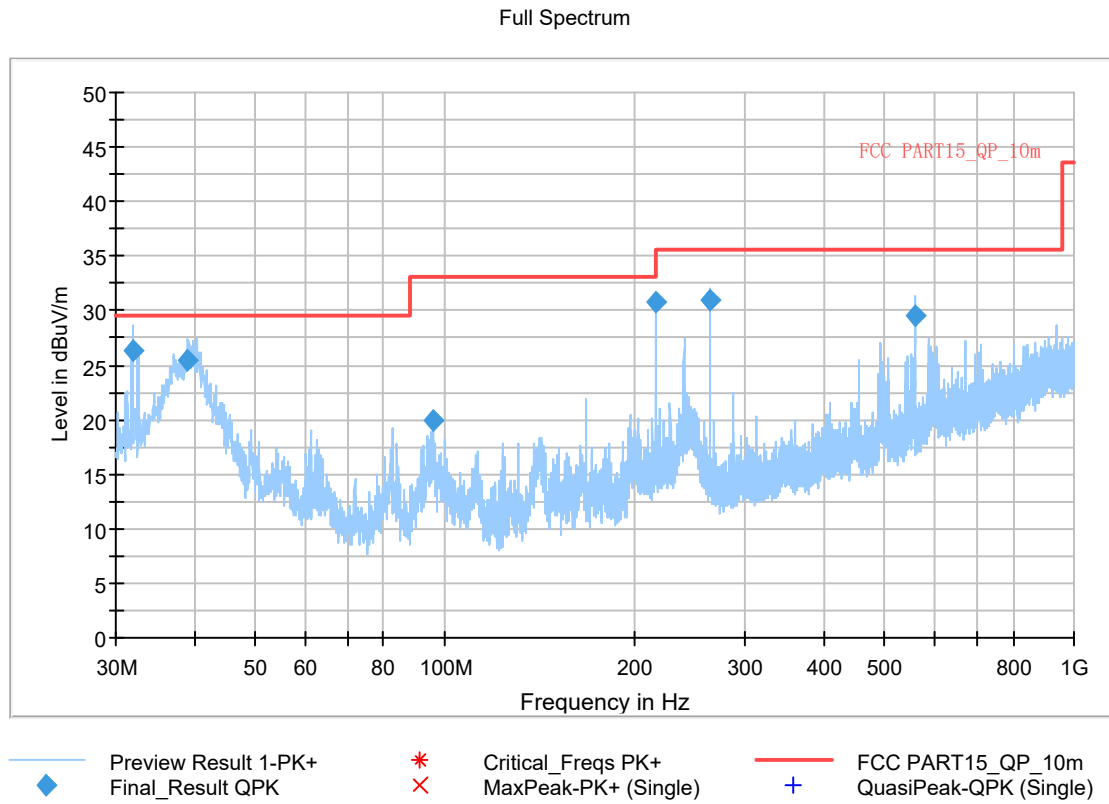


Figure A.3 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
31.891500	26.25	29.54	3.29	175.0	V	225.0
39.118000	25.52	29.54	4.02	225.0	V	251.0
96.105500	19.95	33.06	13.11	125.0	V	30.0
215.997500	30.77	33.06	2.29	325.0	H	6.0
264.352000	30.94	35.56	4.62	325.0	H	187.0
557.534500	29.60	35.56	5.96	275.0	V	315.0

Full Spectrum

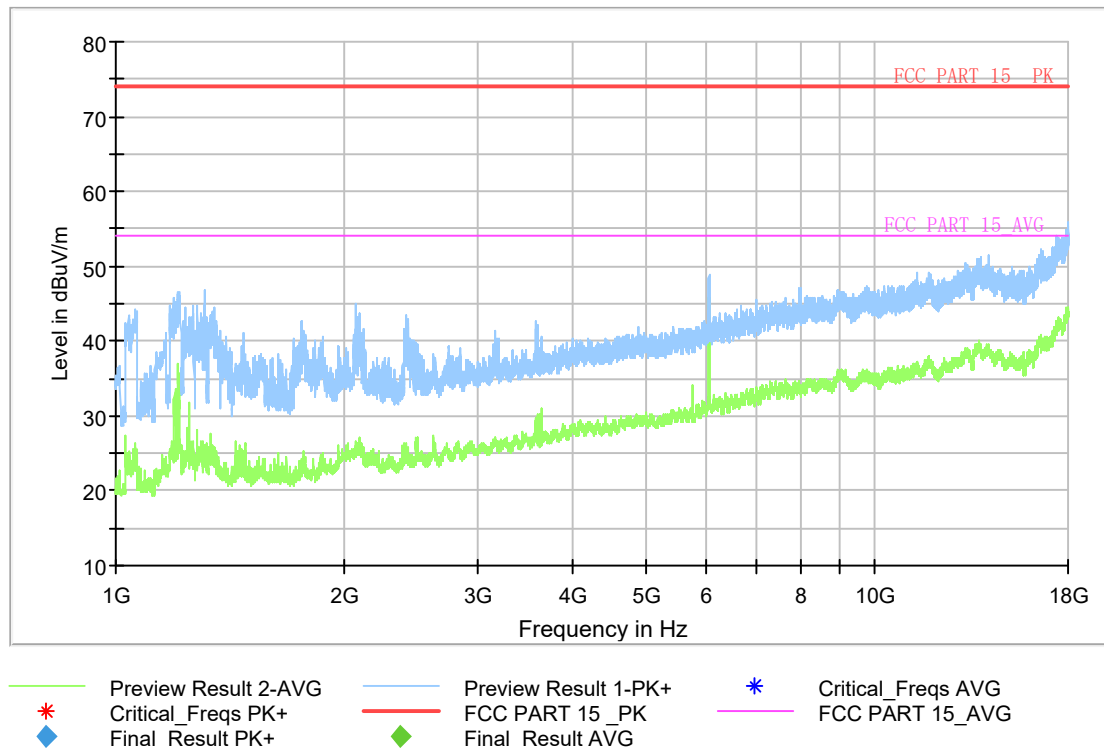


Figure A.4 Radiated Emission from 1GHz to 18GHz

Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
6053.100	45.74	-36.15	35.40	46.49	54.00	8.26	V
6053.400	45.74	-36.15	35.40	46.49	54.00	8.26	V
17977.900	44.44	-26.80	42.30	28.94	54.00	9.56	V
17932.300	44.24	-26.80	42.30	28.74	54.00	9.76	H
17945.300	44.13	-26.80	42.30	28.63	54.00	9.87	V
17947.000	44.00	-26.80	42.30	28.50	54.00	10.00	V

Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.500	55.91	-26.80	42.30	40.41	74.00	18.09	V
17971.400	55.30	-26.80	42.30	39.80	74.00	18.70	H
17954.800	54.91	-26.80	42.30	39.41	74.00	19.09	H
17985.400	54.91	-26.80	42.30	39.41	74.00	19.09	V
17999.000	54.88	-26.80	42.30	39.38	74.00	19.12	H
17922.100	54.79	-26.80	42.30	39.29	74.00	19.21	V

B.2 Conducted Emission

Reference

FCC: CFR Part 15.107(a).

B.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 7.3.

B.2.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

B.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

B.2.4 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60

RBW/IF bandwidth	Sweep Time(s)
9kHz	1

Measurement results:

The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

Summary of conducted emission:

Setup	Function	Conclusion
Set.4	Charger+Real Camera+ RX GSM 850M	Pass
Set.4	Charger+ Front Camera + RX WCDMA band 5	Pass
Set.4	Charger+MP3 + RX LTE band 12	Pass
Set.4	Charger+ Real Camera + RX NR band 71	Pass
Set.5	USB TO PC	Pass

B.2.5 Measurement Results

Measurement results for Set.4, Charger+ Front Camera + RX WCDMA band 5 idle

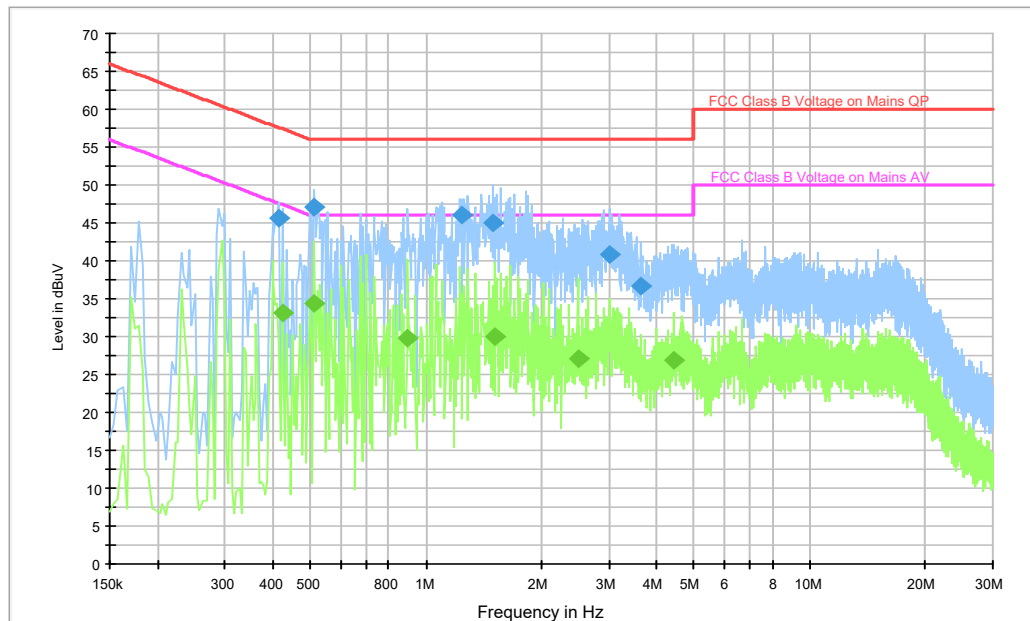


Fig A.5 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.414000	45.7	2000.0	9.000	On	N	19.9	11.9	57.6
0.510000	47.0	2000.0	9.000	On	N	19.9	9.0	56.0
1.234000	46.1	2000.0	9.000	On	N	19.7	9.9	56.0
1.498000	44.9	2000.0	9.000	On	N	19.7	11.1	56.0
3.026000	40.8	2000.0	9.000	On	L1	19.8	15.2	56.0
3.618000	36.6	2000.0	9.000	On	L1	19.8	19.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.422000	33.1	2000.0	9.000	On	N	19.9	14.3	47.4
0.510000	34.4	2000.0	9.000	On	N	19.9	11.6	46.0
0.898000	29.7	2000.0	9.000	On	N	19.8	16.3	46.0
1.510000	30.1	2000.0	9.000	On	N	19.7	15.9	46.0
2.486000	27.2	2000.0	9.000	On	N	19.6	18.8	46.0
4.406000	27.0	2000.0	9.000	On	N	19.6	19.0	46.0

Measurement results for Set.7, USB TO PC transfer:

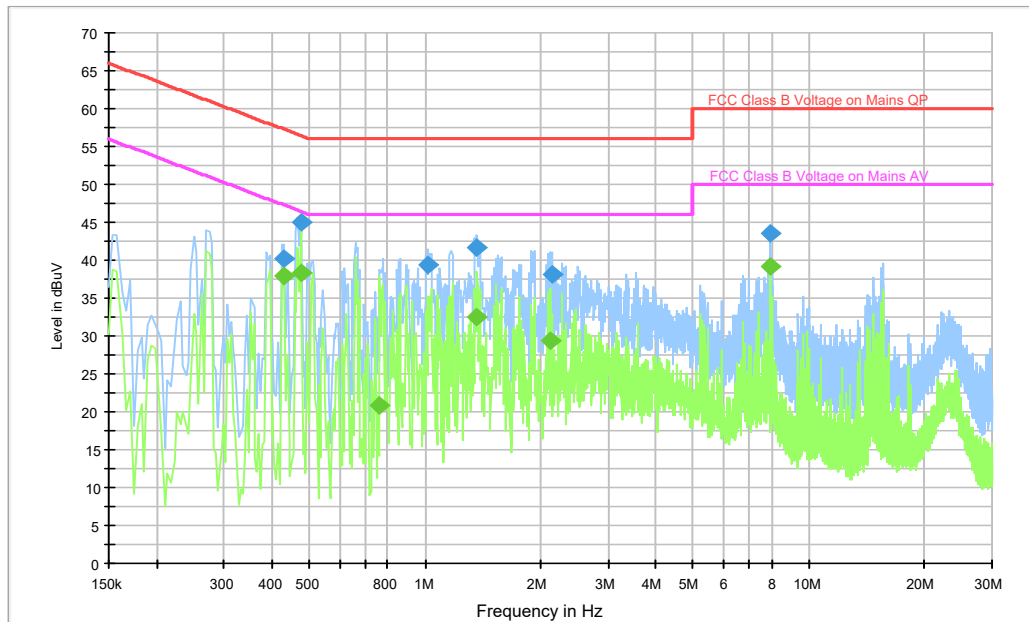


Fig A.6 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.430000	40.3	2000.0	9.000	On	L1	20.0	17.0	57.3
0.474000	45.0	2000.0	9.000	On	L1	20.0	11.4	56.4
1.022000	39.4	2000.0	9.000	On	L1	19.9	16.6	56.0
1.366000	41.7	2000.0	9.000	On	L1	19.9	14.3	56.0
2.134000	38.1	2000.0	9.000	On	N	19.6	17.9	56.0
7.922000	43.6	2000.0	9.000	On	L1	19.9	16.4	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.430000	37.9	2000.0	9.000	On	L1	20.0	9.4	47.3
0.474000	38.3	2000.0	9.000	On	L1	20.0	8.1	46.4
0.762000	20.8	2000.0	9.000	On	N	19.8	25.2	46.0
1.366000	32.5	2000.0	9.000	On	L1	19.9	13.5	46.0
2.122000	29.4	2000.0	9.000	On	N	19.6	16.6	46.0
7.926000	39.1	2000.0	9.000	On	L1	19.9	10.9	50.0



ANNEX C: Test Layout

Please refer to Test setup photos documents for test layout.

ANNEX D: Persons involved in this testing

Test Item	Tester
Conducted emission	Zhang Tianli
Radiated emission	Zhang Tianli & Guo Zilong

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