TEST REPORT

No. I20Z62335-EMC01

For

5G NR/LTE/WCDMA/GSM mobile phone

Model Name: T810S

FCC ID: 2ACCJN050

with

Hardware Version:03

Software Version: v3.0.3CD0

Issued Date: 2021-2-23

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20Z62335-EMC01	Rev.0	1st edition	2021-1-22
I20Z62335-EMC01	Rev.1	2st edition, add wireless charging mode testing resultes	2021-2-23

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

CONTENTS

1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#:24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

CTTL(Huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

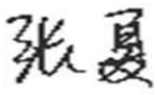
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2020-12-28

Testing End Date: 2021-02-22

1.5. Signature



Zhang Xia

(Prepared this test report)

Li Yan

(Reviewed this test report)

Zang Qi

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Gong Zhizhou
Email:	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722

2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Gong Zhizhou
Email:	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722

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

3.1. About EUT

Description	5G NR/LTE/WCDMA/GSM mobile phone
Model Name	T810S
FCC ID	2ACCJN050
Extreme vol. Limits	3.5VDC to 4.4VDC (nominal: 3.85VDC)

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
UT25a	015920000201147	03	v3.0.3CD0
UT21a	015920000201154	03	v3.0.3CD0

*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	SN	Remarks
AE1	charger	P/N:CBA0064BGTC1	2062335CH006
AE2	Headset	Not marked	Not the AE of EUT, provided by lab. For FM mode testing
AE3	Wireless charger	9A11903G100469L	Not the AE of EUT, provided by lab. For wireless charging mode testing

AE1

Model	QC13US
Manufacturer	BYD
Length of cable	1 meter

AE2

Type	Not marked
Manufacturer	Sumsang
Length of cable	1.5 meter

AE3

Type	MDY-10-EP
Manufacturer	Liantao
Length of cable	/

Note: The USB cables are shielded.

3.4. General Description

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM/GPRS/EGPRS 850, UMTS 850, LTE Band 5/12/13/14/17, Carrier aggregation, 5G, and support FM, MP3, Camera, USB, memory card, WiFi (802.11a/b/g/n-20/n-40/ac 20MHz 40MHz 80MHz), BT5.1(EDR, LE), NFC and GNSS.

3.5. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	UT25a+ AE1	Charger
Set.2	UT25a+ AE1 + AE2	Charger+Headset
Set.3	UT25a+ USB cable	USB mode (Data link with PC)
Set.4	Uta+AE3	Wireless charging

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	2019
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. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (23 meters×17 meters×10 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	**<** ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz－1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	NA	Not applicable
	F	Fail
	BR	Re-use test data from basic model report.

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

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100235	R&S	2021-03-03	1 year
2	LISN	ENV216	101200	R&S	2021-05-19	1 year
3	BiLog Antenna	VULB9163	9163-1223	Schwarzbeck	2021-03-18	1 year
4	EMI Antenna	3115	6914	ETS-Lindgren	2021-01-14	1 year
5	Universal Radio Communication Tester	CMW500	116588	R&S	2021-12-07	1 year
6	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
7	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
8	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
9	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A
10	Signal Generator	SMBV100A	260613	R&S	2021-12-30	1 year
11	Signal Generator	SMB100A	102063	R&S	2021-03-21	1 year

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01.00	R&S
Conducted Emission	EMC32 V8.52.0	R&S

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at distances of 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) 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 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.

A.1.2 EUT Operating Mode

The MS is operating in the charging mode and 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 the 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.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit (μV/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.

Limit (10m) = limit (3m) + 20(log (3/10))

A.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

A.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:

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

Where

G_A: Antenna factor of receive antenna

G_{PL}: Path Loss

P_{Mea}: Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz：5.40dB, 1GHz-18GHz：4.32dB, *k*=2.

Measurement results

Charging, and camera mode /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)
17973.367	48.5	-17.7	45.6	20.600	54	5.5	H
17889.500	48.3	-18.5	45.6	21.200	54	5.7	H
17976.767	47.9	-17.7	45.6	20.000	54	6.1	V
17943.900	47.6	-17.7	45.6	19.700	54	6.4	H
17979.600	47.6	-17.7	45.6	19.700	54	6.4	H
17878.733	47.5	-18.5	45.6	20.400	54	6.5	H

Charging, and camera mode /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)
17989.800	57.4	-17.7	45.6	29.500	74	16.6	H
17971.100	56.7	-17.7	45.6	28.800	74	17.3	H
17975.633	55.7	-17.7	45.6	27.800	74	18.3	V
17992.633	55.7	-17.7	45.6	27.800	74	18.3	H
17958.633	55.7	-17.7	45.6	27.800	74	18.3	H
17947.300	55.7	-17.7	45.6	27.800	74	18.3	H

Charging and GSM 850 RX mode /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)
17933.133	48.9	-17.7	45.6	21.000	54	5.1	H
17969.967	48.6	-17.7	45.6	20.700	54	5.4	H
17987.533	48.1	-17.7	45.6	20.200	54	5.9	V
17965.433	47.9	-17.7	45.6	20.000	54	6.1	H
17973.933	47.7	-17.7	45.6	19.800	54	6.3	H
17990.933	47.6	-17.7	45.6	19.700	54	6.4	H

Charging and GSM 850 RX mode /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)
17998.867	56.6	-17.7	45.6	28.700	74	17.4	H
17922.933	56.4	-17.7	45.6	28.500	74	17.6	H
17933.133	55.9	-17.7	45.6	28.000	74	18.1	V
17915.567	55.7	-17.7	45.6	27.800	74	18.3	H
17927.467	55.6	-17.7	45.6	27.700	74	18.4	H
17977.900	55.6	-17.7	45.6	27.700	74	18.4	H

Charging and FM 88MHz mode /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)
17959.200	47.9	-17.7	45.6	20.000	54	6.1	H
17999.433	47.8	-17.7	45.6	19.900	54	6.2	H
17966.000	47.6	-17.7	45.6	19.700	54	6.4	V
17951.267	47.6	-17.7	45.6	19.700	54	6.4	H
17967.133	47.5	-17.7	45.6	19.600	54	6.5	H
17939.933	47.4	-17.7	45.6	19.500	54	6.6	H

Charging and FM 88MHz mode /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)
17938.233	56.5	-17.7	45.6	28.600	74	17.5	H
17999.433	56.3	-17.7	45.6	28.400	74	17.7	H
17985.833	56.2	-17.7	45.6	28.300	74	17.8	V
17942.767	55.9	-17.7	45.6	28.000	74	18.1	H
17971.667	55.9	-17.7	45.6	28.000	74	18.1	H
17977.333	55.8	-17.7	45.6	27.900	74	18.2	H

USB and MP3 mode /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)
17996.600	48.5	-17.7	45.6	20.600	54	5.5	H
17982.433	48.2	-17.7	45.6	20.300	54	5.8	H
17998.867	48.1	-17.7	45.6	20.200	54	5.9	V
17972.233	47.8	-17.7	45.6	19.900	54	6.2	H
17963.733	47.8	-17.7	45.6	19.900	54	6.2	H
17997.733	47.7	-17.7	45.6	19.800	54	6.3	H

USB mode /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)
17985.267	56.9	-17.7	45.6	29.000	74	17.1	H
17981.300	56.7	-17.7	45.6	28.800	74	17.3	H
17943.900	56.6	-17.7	45.6	28.700	74	17.4	V
17854.933	56.6	-18.5	45.6	29.500	74	17.4	H
18000.000	56.5	-45.6	44.5	57.566	74	17.5	H
17859.467	56.5	-18.5	45.6	29.400	74	17.5	H

Charging, and camera mode

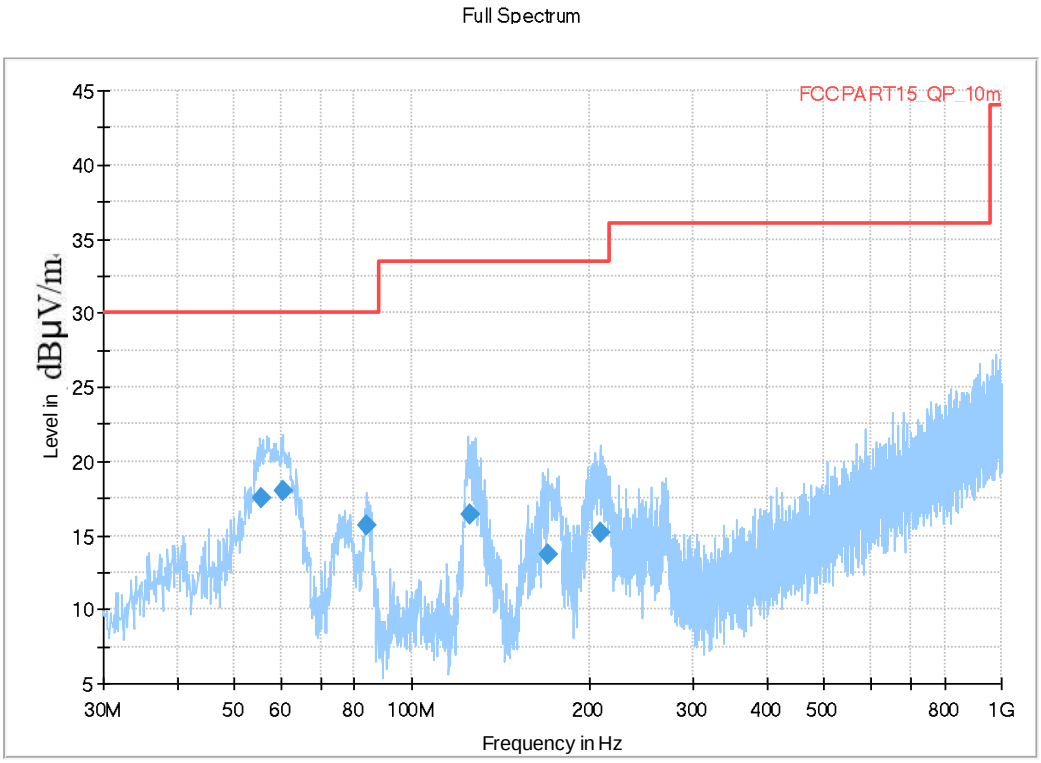


Figure A.1 Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/	Margin (dB)	Azimuth (deg)	Height (cm)	Polarization
55.497000	**17.55**	**30.00**	**12.45**	**30.0**	**117.0**	**V**
60.301000	**17.97**	**30.00**	**12.03**	**17.0**	**195.0**	**V**
83.738000	**15.70**	**30.00**	**14.30**	**206.0**	**107.0**	**V**
125.466000	**16.41**	**33.50**	**17.11**	**-22.0**	**107.0**	**V**
170.391000	**13.68**	**33.50**	**19.84**	**111.0**	**117.0**	**V**
209.505000	**15.18**	**33.50**	**18.34**	**87.0**	**121.0**	**V**

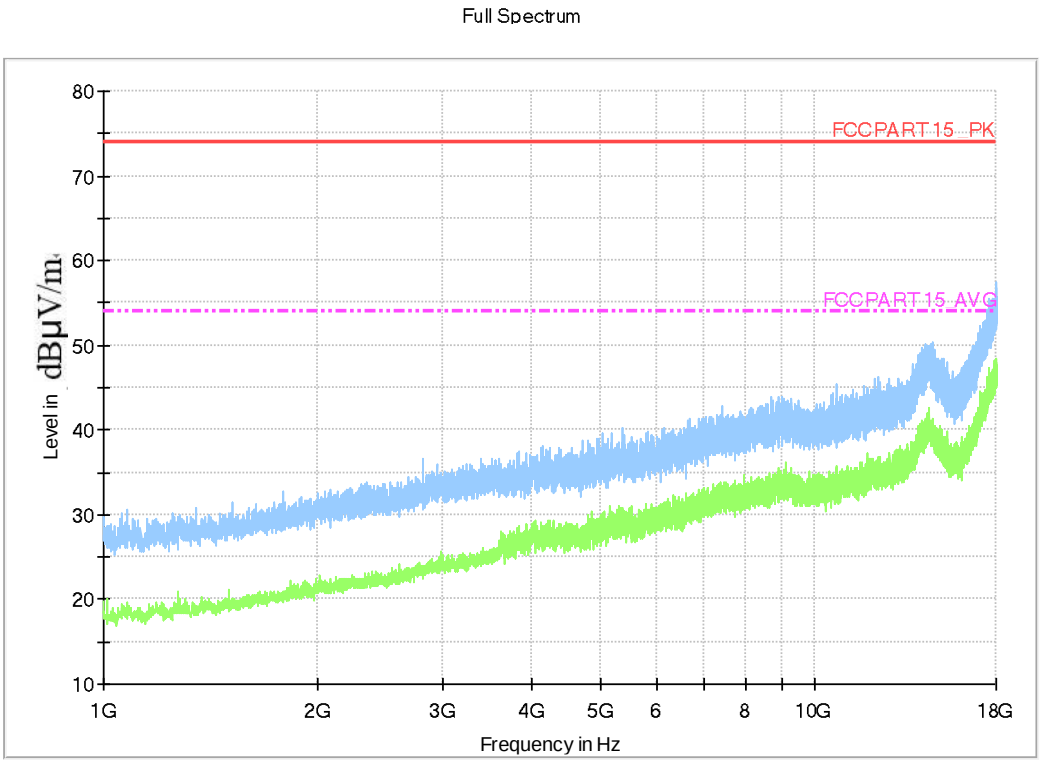


Figure A.2 Radiated Emission from 1GHz to 18GHz

Charging and GSM 850 RX mode

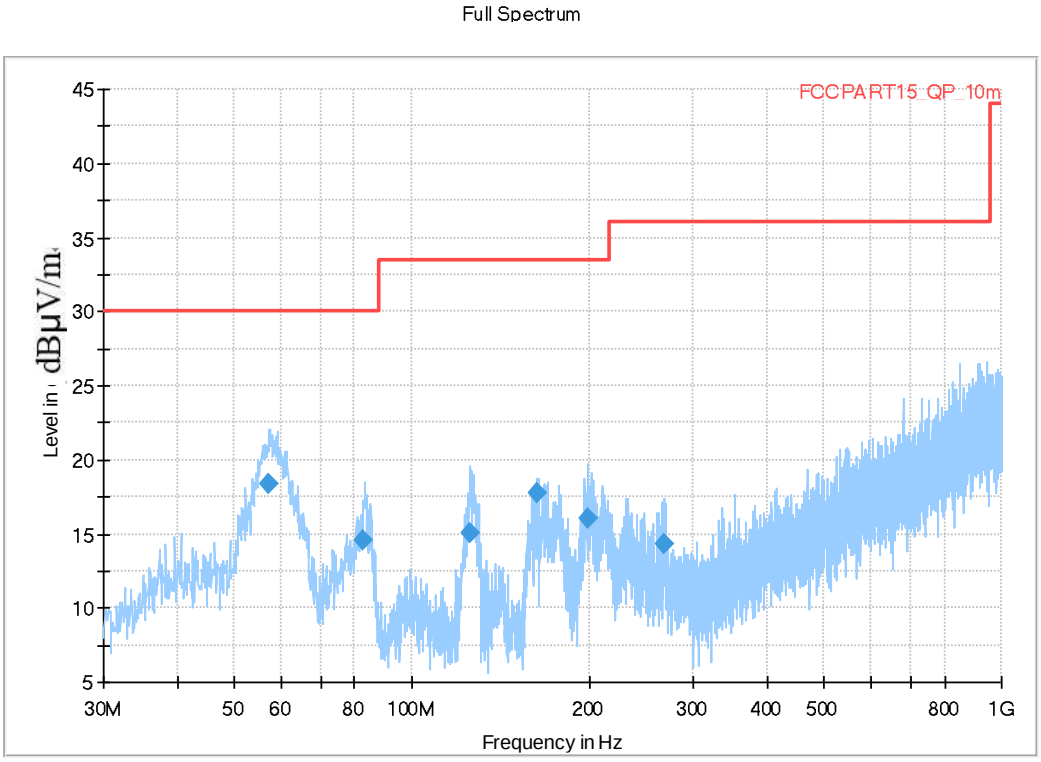


Figure A.3 Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/	Margin (dB)	Azimuth (deg)	Height (cm)	Polarization
56.994000	18.34	30.00	11.66	4.0	103.0	V
82.833000	14.51	30.00	15.49	30.0	181.0	V
125.397000	15.05	33.50	18.47	194.0	120.0	V
162.816000	17.77	33.50	15.75	-30.0	103.0	V
198.812000	16.03	33.50	17.49	-30.0	117.0	V
268.435000	14.36	36.00	21.66	64.0	106.0	V

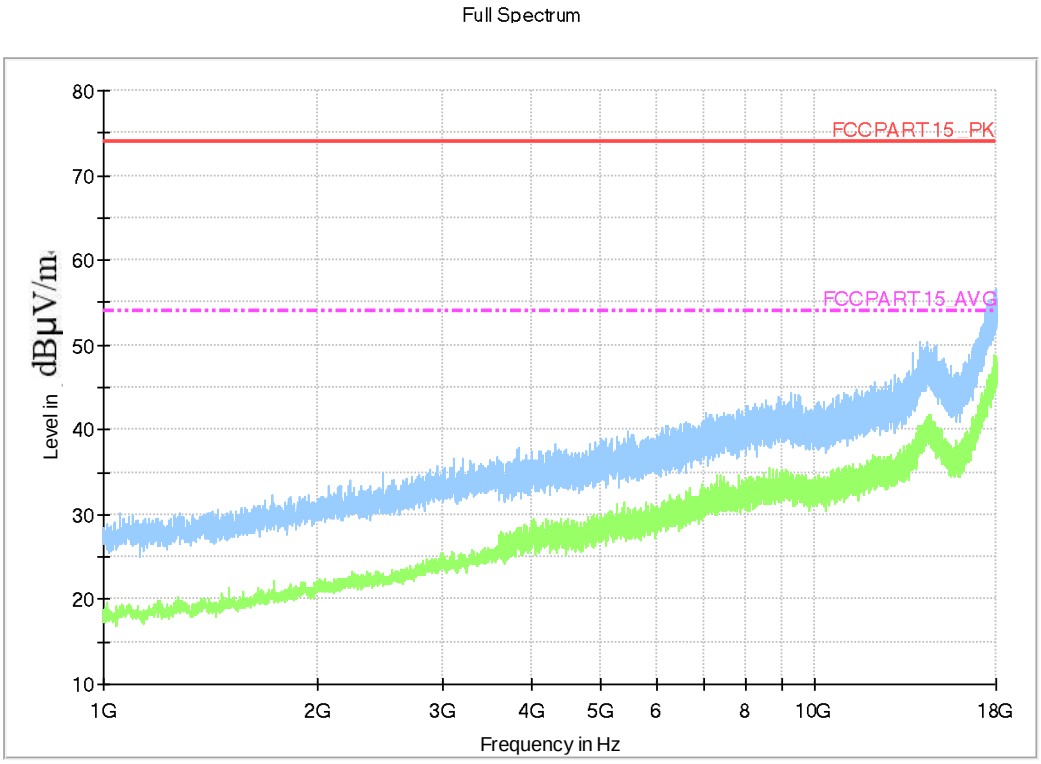


Figure A.4 Radiated Emission from 1GHz to 18GHz

Charging and FM 88MHz mode

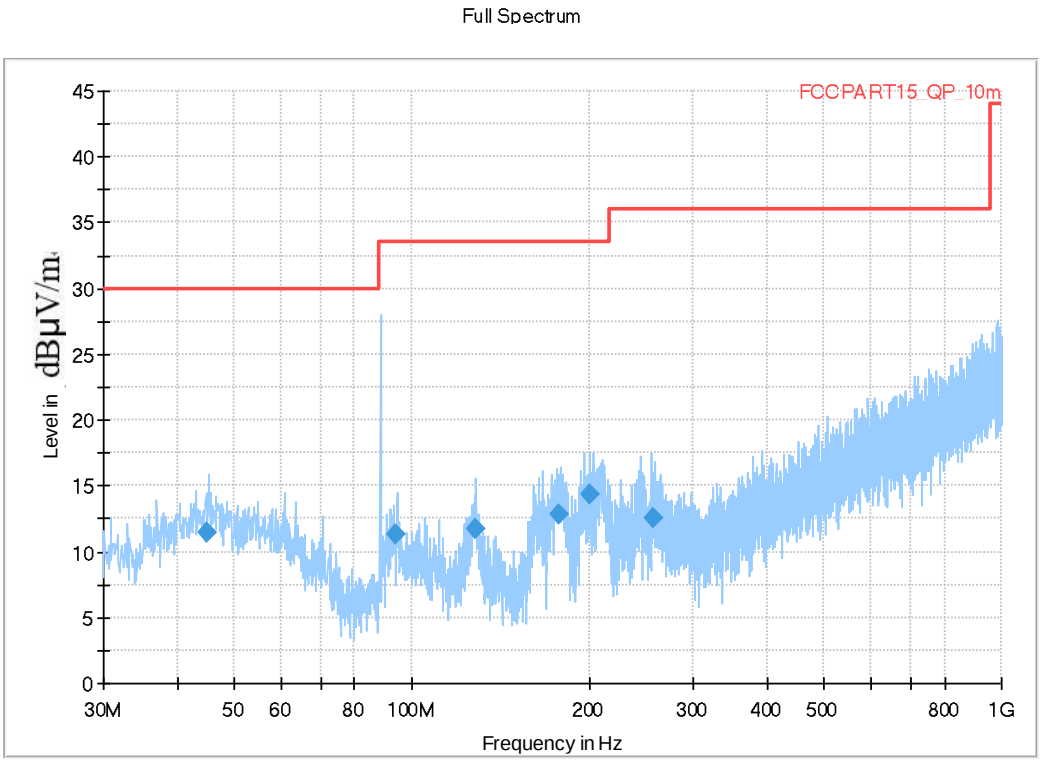


Figure A.5 Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/	Margin (dB)	Azimuth (deg)	Height (cm)	Polarization
44.869000	11.50	30.00	18.50	210.0	125.0	V
94.145000	11.38	33.50	22.14	14.0	100.0	V
128.072000	11.78	33.50	21.74	3.0	192.0	V
177.001000	12.88	33.50	20.64	155.0	119.0	V
200.720000	14.42	33.50	19.10	-30.0	103.0	V
255.908000	12.50	36.00	23.52	60.0	125.0	V

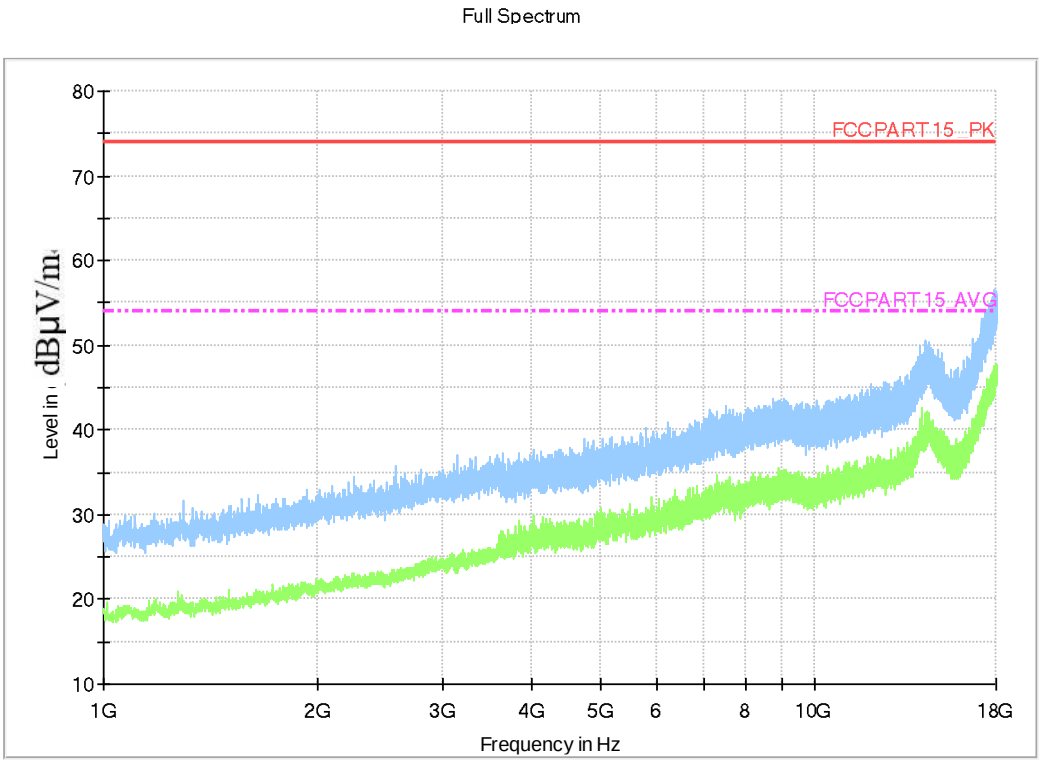


Figure A.6 Radiated Emission from 1GHz to 18GHz

USB and MP3 mode

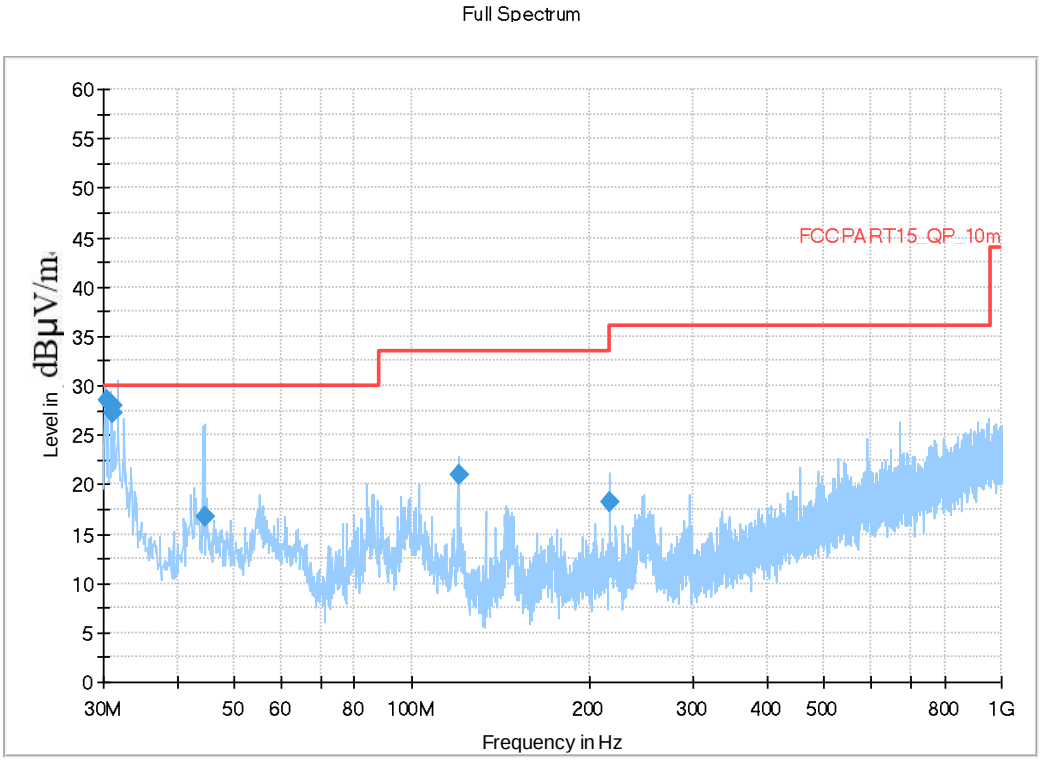


Figure A.7 Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/	Margin (dB)	Azimuth (deg)	Height (cm)	Polarization
30.420000	28.45	30.00	1.55	210.0	110.0	V
31.090000	28.02	30.00	1.98	210.0	117.0	V
31.146000	27.23	30.00	2.77	150.0	102.0	V
44.453000	16.82	30.00	13.18	202.0	181.0	V
119.979000	21.01	33.50	12.51	164.0	102.0	V
215.949000	18.14	33.50	15.38	210.0	177.0	V

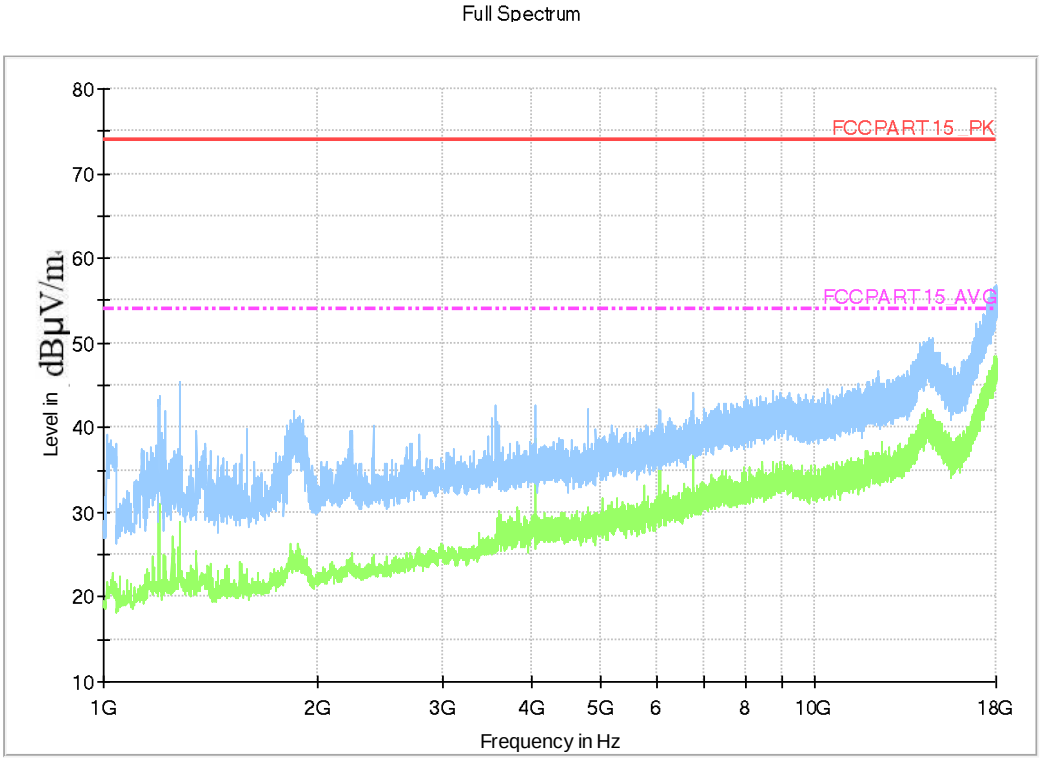


Figure A.8 Radiated Emission from 1GHz to 18GHz

Wireless charging mode

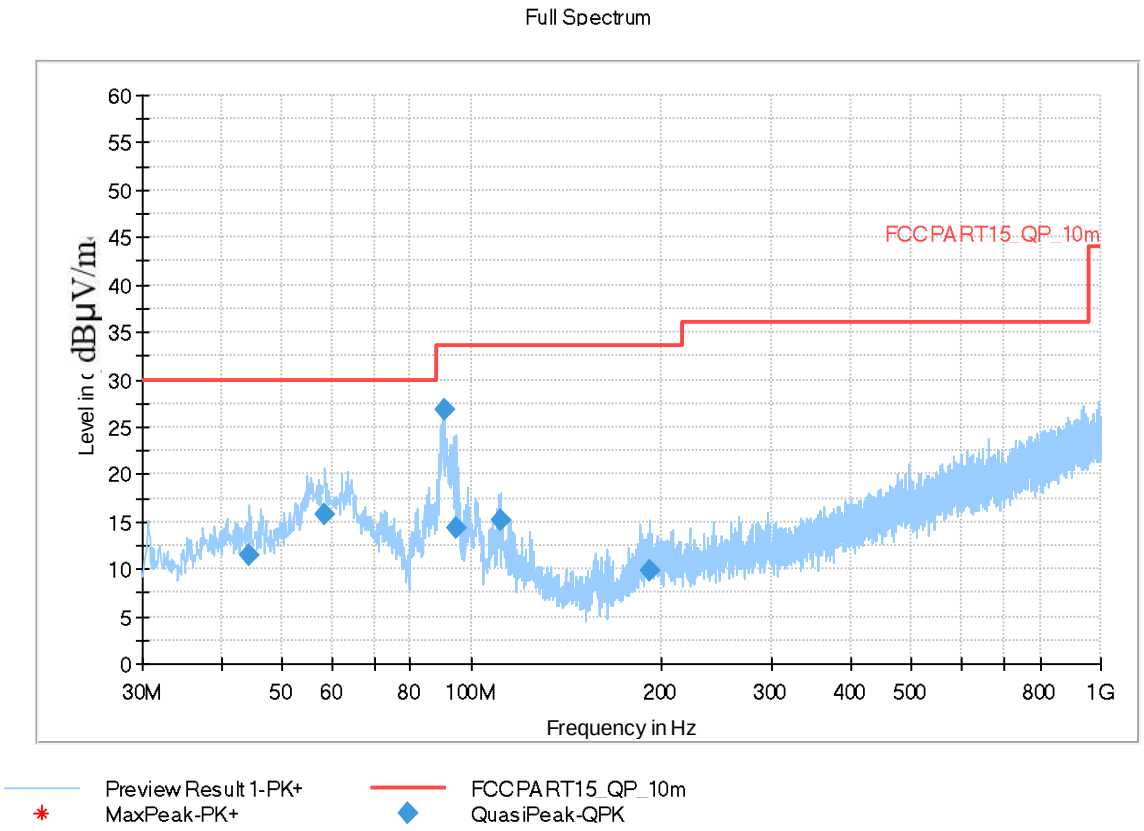


Figure A.9 Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/	Margin (dB)	Azimuth (deg)	Height (cm)	Polarization
44.356000	11.44	30.00	18.56	256.0	178.0	V
58.518000	15.73	30.00	14.27	210.0	199.0	V
90.625000	26.77	33.50	6.75	300.0	119.0	V
94.311000	14.43	33.50	19.09	281.0	125.0	V
111.189000	15.16	33.50	18.36	210.0	109.0	V
191.893000	9.88	33.50	23.64	300.0	125.0	V

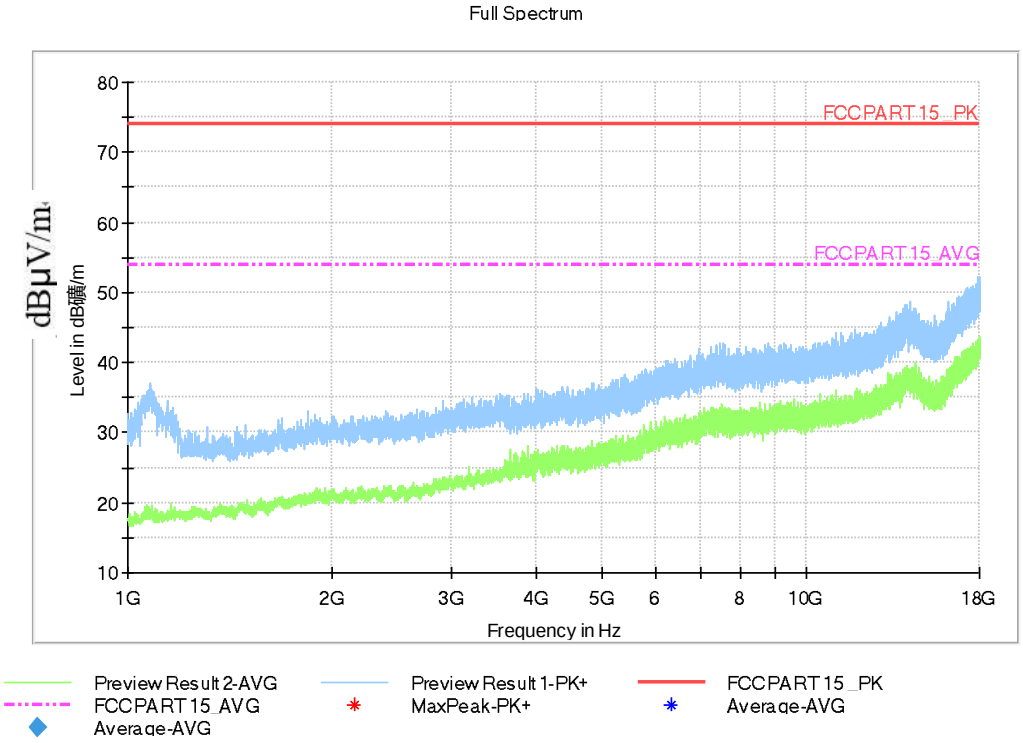


Figure A.10 Radiated Emission from 1GHz to 18GHz

A.2 Conducted Emission

Reference

FCC: CFR Part 15.107(a).

A.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.

A.2.2 EUT Operating Mode

The MS is operating in the charging mode and USB mode.

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

A.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		

A.2.4 Test Condition in charging mode

Voltage（V）	Frequency（Hz）
120	60

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

A.2.5 Measurement Results

Measurement uncertainty: *U*= 3.10 dB, *k*=2.

Charging and camera mode

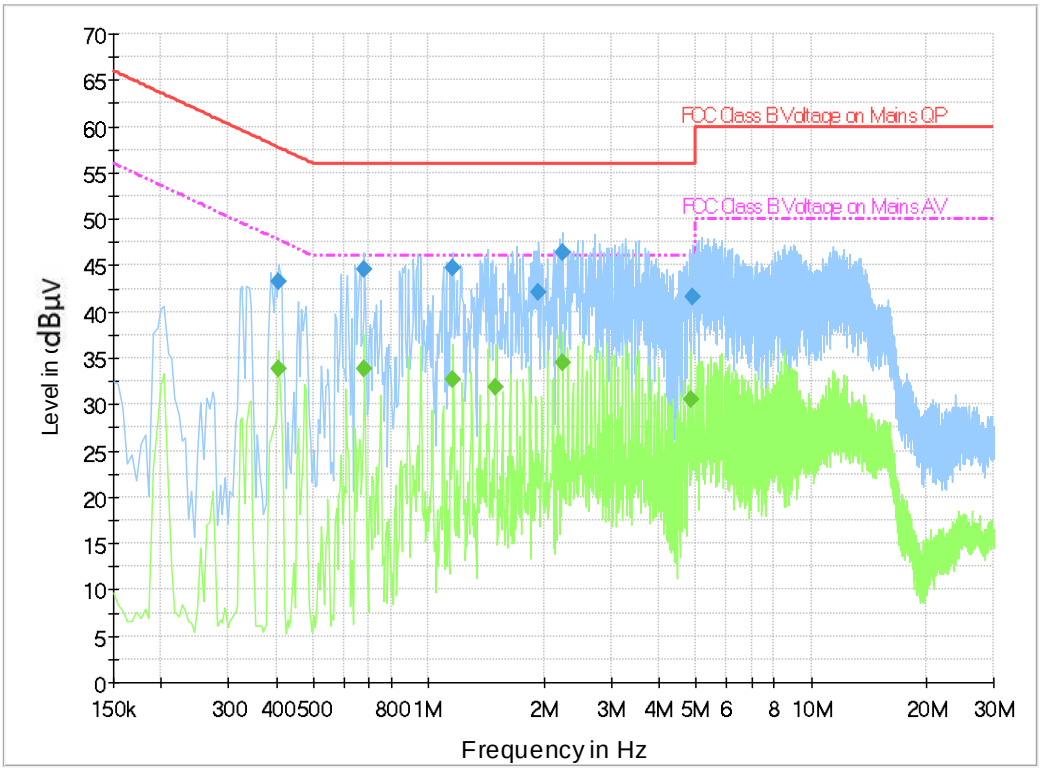


Figure A.11 Conducted Emission

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406500	43.3	1000.0	9.000	On	N	19.6	14.5	57.7
0.681000	44.6	1000.0	9.000	On	N	19.4	11.4	56.0
1.158000	44.8	1000.0	9.000	On	N	19.6	11.2	56.0
1.941000	42.1	1000.0	9.000	On	N	19.5	13.9	56.0
2.247000	46.5	1000.0	9.000	On	N	19.6	9.5	56.0
4.893000	41.6	1000.0	9.000	On	N	19.7	14.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406500	33.8	1000.0	9.000	On	N	19.6	13.9	47.7
0.681000	33.8	1000.0	9.000	On	N	19.4	12.2	46.0
1.158000	32.7	1000.0	9.000	On	N	19.6	13.3	46.0
1.500000	31.9	1000.0	9.000	On	N	19.6	14.1	46.0
2.247000	34.5	1000.0	9.000	On	N	19.6	11.5	46.0
4.834500	30.6	1000.0	9.000	On	N	19.7	15.4	46.0

Charging and GSM 850 RX mode

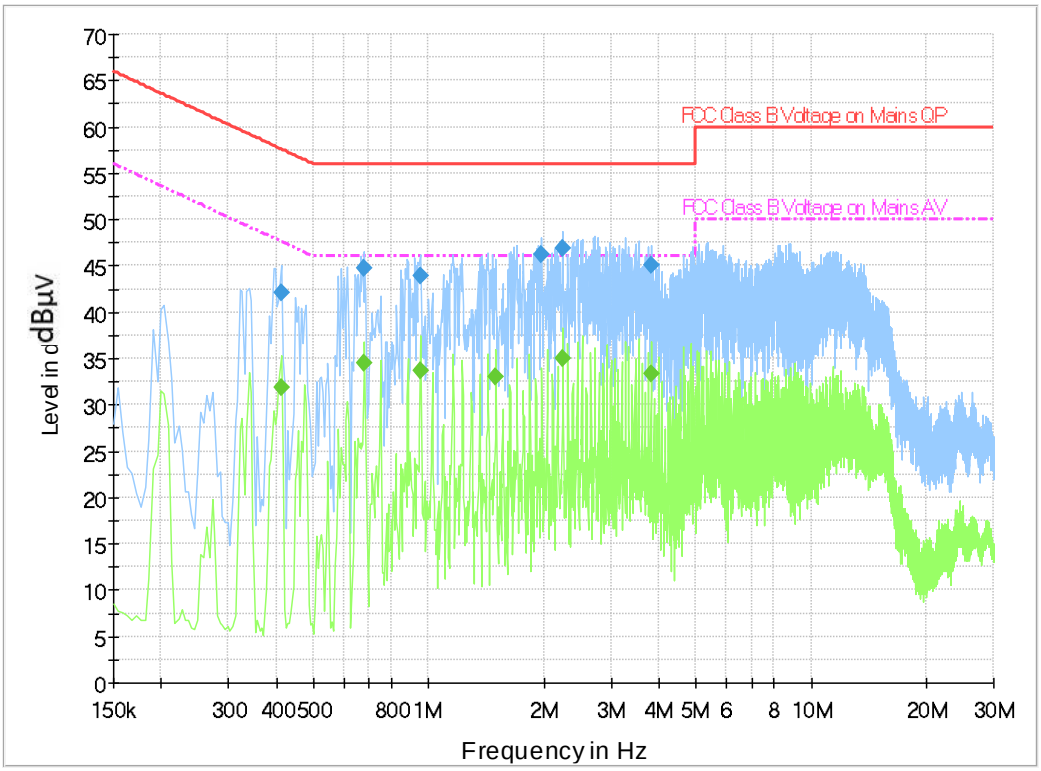


Figure A.12 Conducted Emission

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.411000	42.1	1000.0	9.000	On	N	19.6	15.5	57.6
0.681000	44.7	1000.0	9.000	On	N	19.4	11.3	56.0
0.951000	44.0	1000.0	9.000	On	N	19.6	12.0	56.0
1.972500	46.2	1000.0	9.000	On	L1	19.5	9.8	56.0
2.247000	46.9	1000.0	9.000	On	N	19.6	9.1	56.0
3.813000	45.1	1000.0	9.000	On	L1	19.7	10.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.411000	31.8	1000.0	9.000	On	N	19.6	15.8	47.6
0.681000	34.4	1000.0	9.000	On	L1	19.6	11.6	46.0
0.951000	33.8	1000.0	9.000	On	N	19.6	12.2	46.0
1.500000	33.0	1000.0	9.000	On	L1	19.6	13.0	46.0
2.247000	35.0	1000.0	9.000	On	L1	19.6	11.0	46.0
3.813000	33.4	1000.0	9.000	On	L1	19.7	12.6	46.0

Charging and FM mode

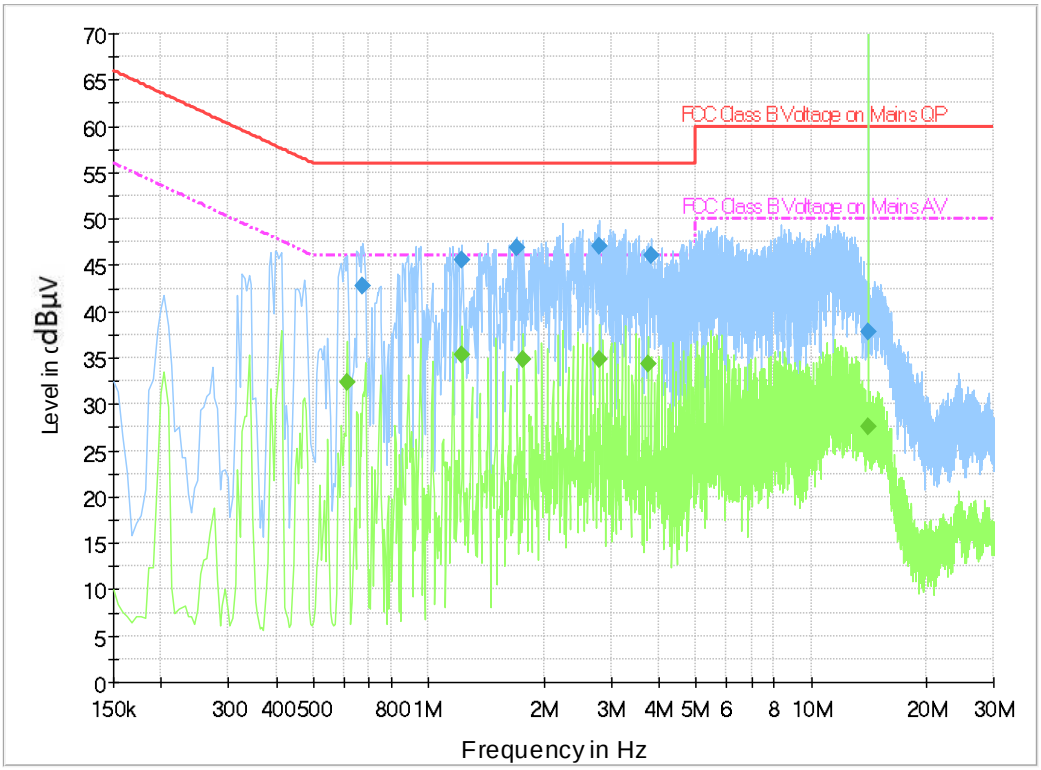


Figure A.13 Conducted Emission

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.672000	42.8	1000.0	9.000	On	L1	19.6	13.2	56.0
1.225500	45.6	1000.0	9.000	On	N	19.6	10.4	56.0
1.702500	46.8	1000.0	9.000	On	N	19.6	9.2	56.0
2.791500	47.1	1000.0	9.000	On	N	19.6	8.9	56.0
3.813000	46.0	1000.0	9.000	On	L1	19.7	10.0	56.0
14.158500	37.8	1000.0	9.000	On	L1	20.0	22.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.613500	32.3	1000.0	9.000	On	L1	19.6	13.7	46.0
1.225500	35.3	1000.0	9.000	On	N	19.6	10.7	46.0
1.770000	34.8	1000.0	9.000	On	N	19.5	11.2	46.0
2.791500	34.9	1000.0	9.000	On	N	19.6	11.1	46.0
3.745500	34.4	1000.0	9.000	On	L1	19.7	11.6	46.0
14.158500	27.5	1000.0	9.000	On	L1	20.0	22.5	50.0

USB and MP3 mode

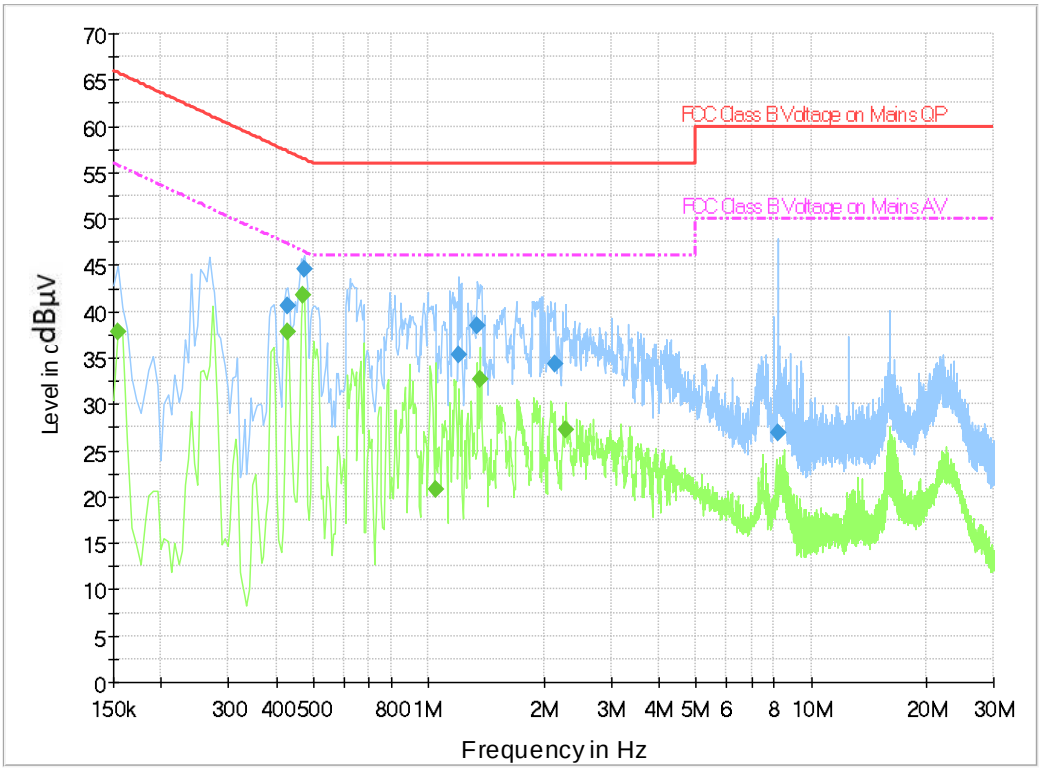


Figure A.14 Conducted Emission

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	40.6	1000.0	9.000	On	L1	19.6	16.7	57.3
0.474000	44.5	1000.0	9.000	On	L1	19.6	11.9	56.4
1.198500	35.3	1000.0	9.000	On	L1	19.6	20.7	56.0
1.342500	38.5	1000.0	9.000	On	L1	19.6	17.5	56.0
2.139000	34.3	1000.0	9.000	On	N	19.5	21.7	56.0
8.232000	27.0	1000.0	9.000	On	N	19.7	33.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	37.9	1000.0	9.000	On	N	19.5	17.9	55.8
0.429000	37.9	1000.0	9.000	On	N	19.6	9.4	47.3
0.469500	41.8	1000.0	9.000	On	N	19.6	4.8	46.5
1.041000	20.7	1000.0	9.000	On	L1	19.6	25.3	46.0
1.365000	32.7	1000.0	9.000	On	N	19.6	13.3	46.0
2.292000	27.3	1000.0	9.000	On	N	19.6	18.7	46.0

Wireless charging mode

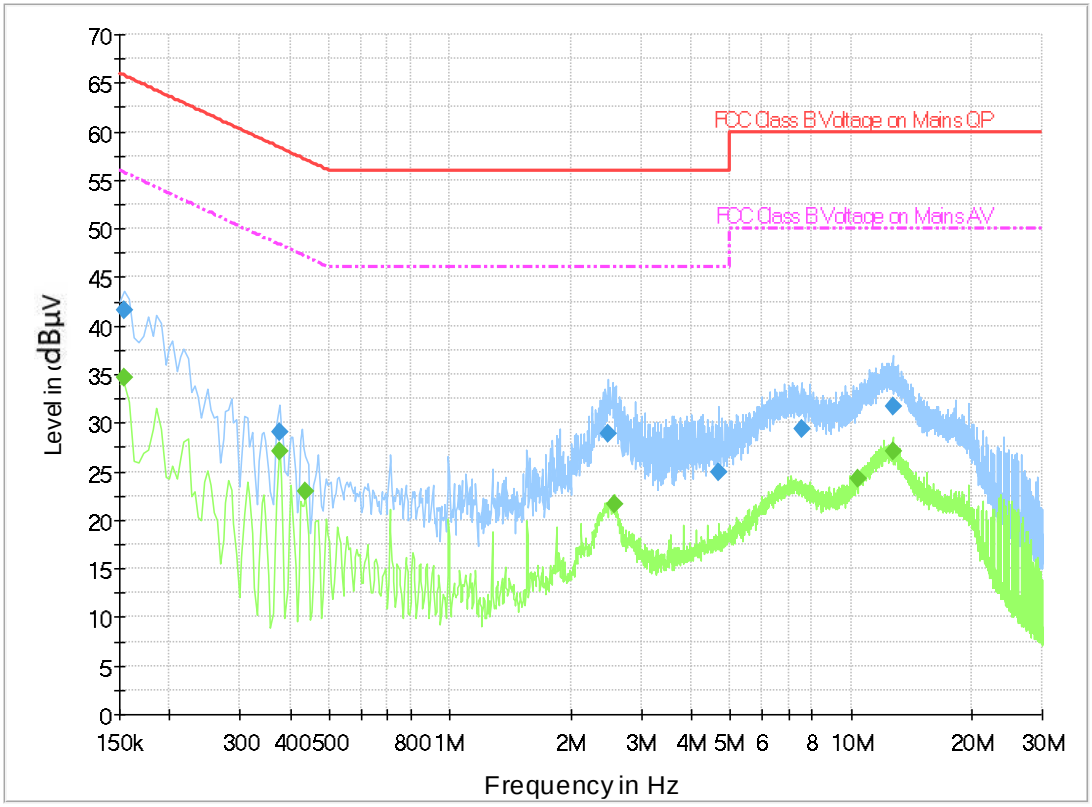


Figure A.15 Conducted Emission

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	41.6	1000.0	9.000	On	N	19.5	24.2	65.8
0.375000	29.1	1000.0	9.000	On	N	19.6	29.3	58.4
2.485500	29.0	1000.0	9.000	On	N	19.6	27.0	56.0
4.681500	24.9	1000.0	9.000	On	N	19.7	31.1	56.0
7.516500	29.4	1000.0	9.000	On	L1	19.7	30.6	60.0
12.696000	31.7	1000.0	9.000	On	L1	19.9	28.3	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	34.7	1000.0	9.000	On	N	19.5	21.1	55.8
0.375000	27.1	1000.0	9.000	On	N	19.6	21.3	48.4
0.438000	22.9	1000.0	9.000	On	N	19.6	24.2	47.1
2.571000	21.7	1000.0	9.000	On	N	19.6	24.3	46.0
10.392000	24.3	1000.0	9.000	On	L1	19.9	25.7	50.0
12.696000	27.1	1000.0	9.000	On	L1	19.9	22.9	50.0

ANNEX B: Persons involved in this testing

Test Item	Tester
Radiated Emission	Wang Huan, Ding Zai
Conducted Emission	Yang Mengke

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