



FCC PART 15B TEST REPORT

No. 25T04Z100997-005

for

Shenzhen Tinno Mobile Technology Corp.

Mobile Hotspot

Model Name: B331MA, B331MC

FCC ID: XD6B331MA

with

Hardware Version: V1.0

Software Version: B331MAV01.04.10 (for B331MA),

B331MCV01.12.10 (for B331MC)

Issued Date: 2025-07-11

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
25T04Z100997-005	Rev.0	1 st edition	2025-07-11

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

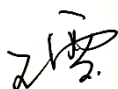
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2025-06-06

Testing End Date: 2025-06-20

1.4. Signature



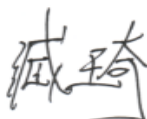
Wang Xue

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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: Shenzhen Tinno Mobile Technology Corp.
Address/Post: 27-001, South Side of Tianlong Mobile Headquarters Building,
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Mobile Hotspot
Model Name	B331MA/B331MC
FCC ID:	XD6B331MA

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
UT43a	862519070006461	V1.0	B331MAV01.04.10

*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	Battery1	TNO496386AG-N1	Guangdong Fenghua New Energy Co.,Ltd.
AE2	Charger1	TN-050200U3	Dong Guan City GangQi Electronic Co., Ltd
AE3	USB Cable	T365-011B-1	Shenzhen Yihuaxing Electronics Co. Ltd.

*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.1	UT43a + AE1 +AE2+AE3	Charger1+WCDMA B5 idle
Set.2	UT43a + AE1 +AE2+AE3	Charger1+LTE B5 idle
Set.3	UT43a + AE1 +AE3+PC	USB + NR n5 idle

Note:

Equipment Under Test (EUT) is a model of Mobile Hotspot.

It supports

UMTS Band	Band II(W1900) /FDD Band IV(W1700)/FDD V(W850)
LTE Band	Bands 2/3/4/5/7/12/14/20/29/30/66
NR Band	SA n2/n5/n14/n30/n66/n77, NSA n2/n5/n66/n77

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

The device contains receivers which tune and operate between 30MHz-960MHz in the following mode: WCDMA850, LTE Band 5/12/14/20, NR n5/n14. 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	2024
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)

Note: The model B331MA and B331MC are only different in the colors of the appearance and UI. According to the declaration of changes, all tests are based on B331MA, and referenced by B331MC.

6. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESW44	103023	R&S	2026-05-07	1 Year
2	Test Receiver	ESCI 3	100344	R&S	2026-04-01	1 year
3	LISN	ENV216	101200	R&S	2026-06-05	1 year
4	EMI Antenna	VULB 9163	01222	SCHWARZBECK	2025-09-11	1 Year
5	EMI Antenna	3115	6914	ETS-Lindgren	2026-03-31	1 Year
6	Universal Communication Tester	CMW500	116588	R&S	2026-01-25	1 Year
7	Universal Communication Tester	E7515B	MY60102215	Keysight	2025-07-09	1 Year
	Universal Communication Tester	CMX500	102710	R&S	2026-04-01	1 year

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

Semi-anechoic chamber utilized did not exceed following limits along the 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	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 10 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 6GHz

Shielded room utilized did not exceed following limits along the 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

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: 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 (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.

A.1.2 EUT Operating Mode

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

The model of the PC is M4000E-17, and the serial number of the PC is M706GWXD. 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.

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.

A.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.

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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement results for Set.1:

Charing Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17910.6	47.49	-26.8	42.3	31.99	54	6.51	V
17943.6	47.48	-26.8	42.3	31.98	54	6.52	H
17924.5	47.46	-26.8	42.3	31.96	54	6.54	H
17916	47.28	-26.8	42.3	31.78	54	6.72	H
17960.9	47.18	-26.8	42.3	31.68	54	6.82	H
17919.8	47.05	-26.8	42.3	31.55	54	6.95	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17915.7	58.87	-26.8	42.3	43.37	74	15.13	H
17934.4	58.61	-26.8	42.3	43.11	74	15.39	H
17942.5	57.84	-26.8	42.3	42.34	74	16.16	V
17920.1	57.79	-26.8	42.3	42.29	74	16.21	V
17971.8	57.68	-26.8	42.3	42.18	74	16.32	H
17905.5	57.63	-26.8	42.3	42.13	74	16.37	H

Measurement results for Set.2:
Charing Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17932	47.22	-26.8	42.3	31.72	54	6.78	H
17921.8	47.2	-26.8	42.3	31.7	54	6.8	V
17947.3	47.09	-26.8	42.3	31.59	54	6.91	H
17942.9	47.04	-26.8	42.3	31.54	54	6.96	V
17956.5	47.03	-26.8	42.3	31.53	54	6.97	V
17952.4	47.01	-26.8	42.3	31.51	54	6.99	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17916.7	58.49	-26.8	42.3	42.99	74	15.51	V
17930	58.05	-26.8	42.3	42.55	74	15.95	V
17907.5	57.97	-26.8	42.3	42.47	74	16.03	H
17968.4	57.67	-26.8	42.3	42.17	74	16.33	H
17922.5	57.6	-26.8	42.3	42.1	74	16.4	V
17967	57.58	-26.8	42.3	42.08	74	16.42	H

Measurement results for Set.3:
USB charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17959.2	47.24	-26.8	42.3	31.74	54	6.76	H
17920.1	47.23	-26.8	42.3	31.73	54	6.77	V
17937.1	47.13	-26.8	42.3	31.63	54	6.87	H
17929.3	47.08	-26.8	42.3	31.58	54	6.92	H
17914	47.06	-26.8	42.3	31.56	54	6.94	H
17942.5	46.98	-26.8	42.3	31.48	54	7.02	H

USB charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.4	58.57	-26.8	42.3	43.07	74	15.43	H
17957.5	58.05	-26.8	42.3	42.55	74	15.95	H
17983	58.02	-26.8	42.3	42.52	74	15.98	H
17938.1	57.91	-26.8	42.3	42.41	74	16.09	V
17974.8	57.9	-26.8	42.3	42.4	74	16.1	V
17919.4	57.87	-26.8	42.3	42.37	74	16.13	H

Measurement results for Set.1:

Full Spectrum

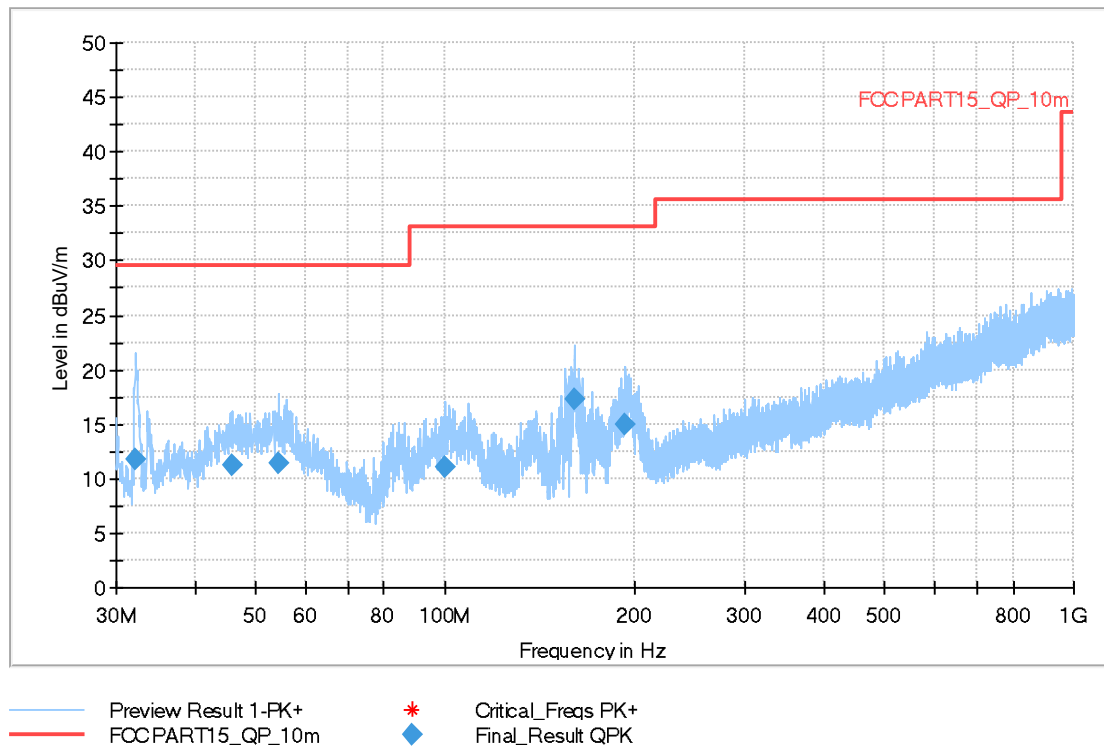


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.231000	11.78	29.54	17.76	120.000	100.0	V	-30.0
45.859500	11.29	29.54	18.25	120.000	175.0	V	45.0
54.298500	11.35	29.54	18.19	120.000	100.0	V	225.0
99.743000	11.01	33.06	22.05	120.000	225.0	V	144.0
160.368000	17.28	33.06	15.78	120.000	192.0	V	-15.0
193.445000	14.87	33.06	18.19	120.000	106.0	V	246.0

Full Spectrum

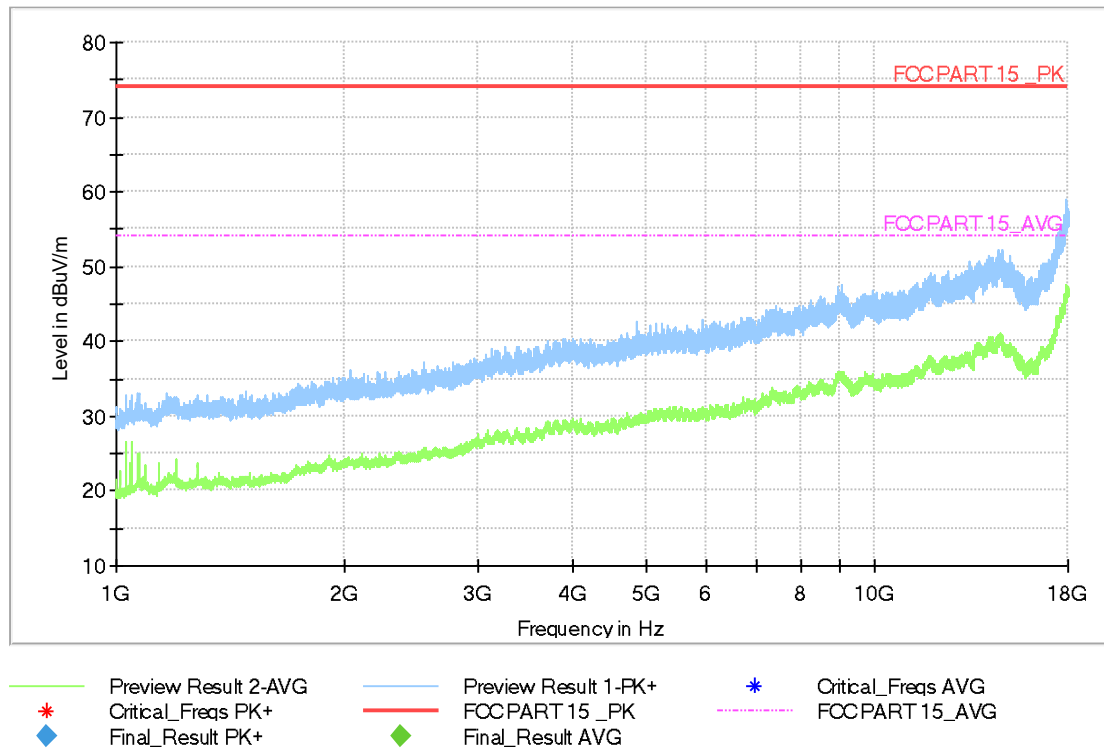


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

Full Spectrum

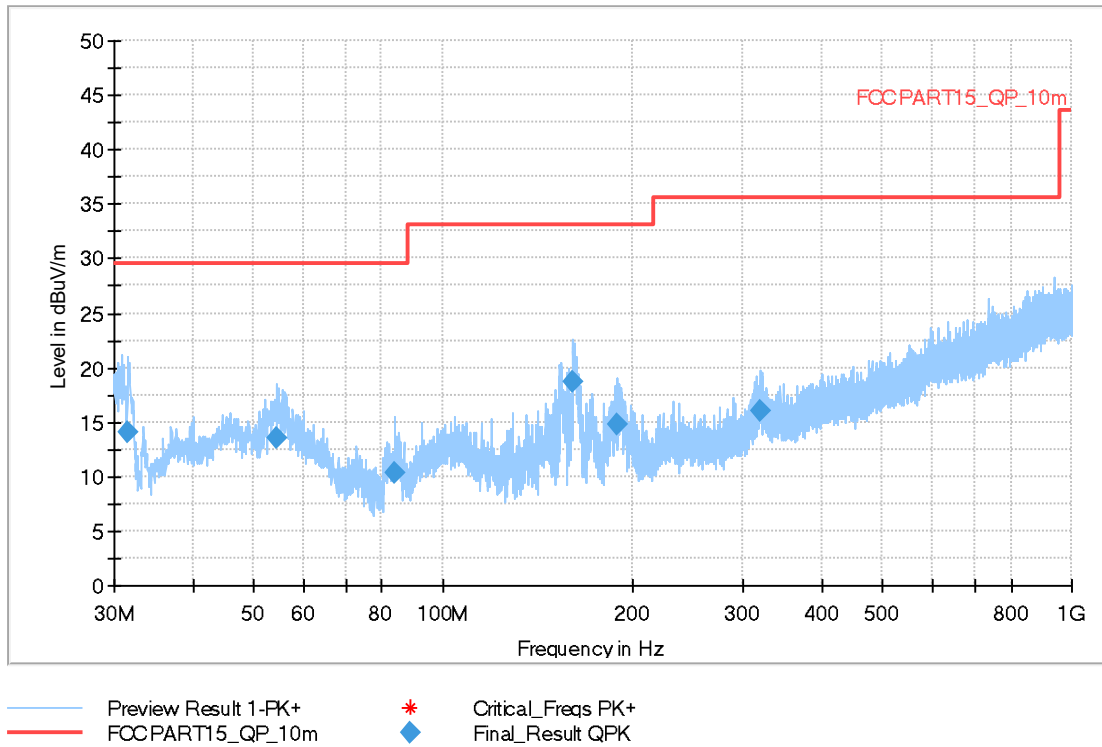


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.503500	14.06	29.54	15.48	120.000	100.0	V	315.0
54.492500	13.48	29.54	16.06	120.000	100.0	V	234.0
83.932000	10.29	29.54	19.25	120.000	125.0	V	286.0
161.047000	18.64	33.06	14.42	120.000	100.0	V	-9.0
188.886000	14.69	33.06	18.37	120.000	106.0	V	81.0
319.593500	16.08	35.56	19.48	120.000	124.0	V	99.0

Full Spectrum

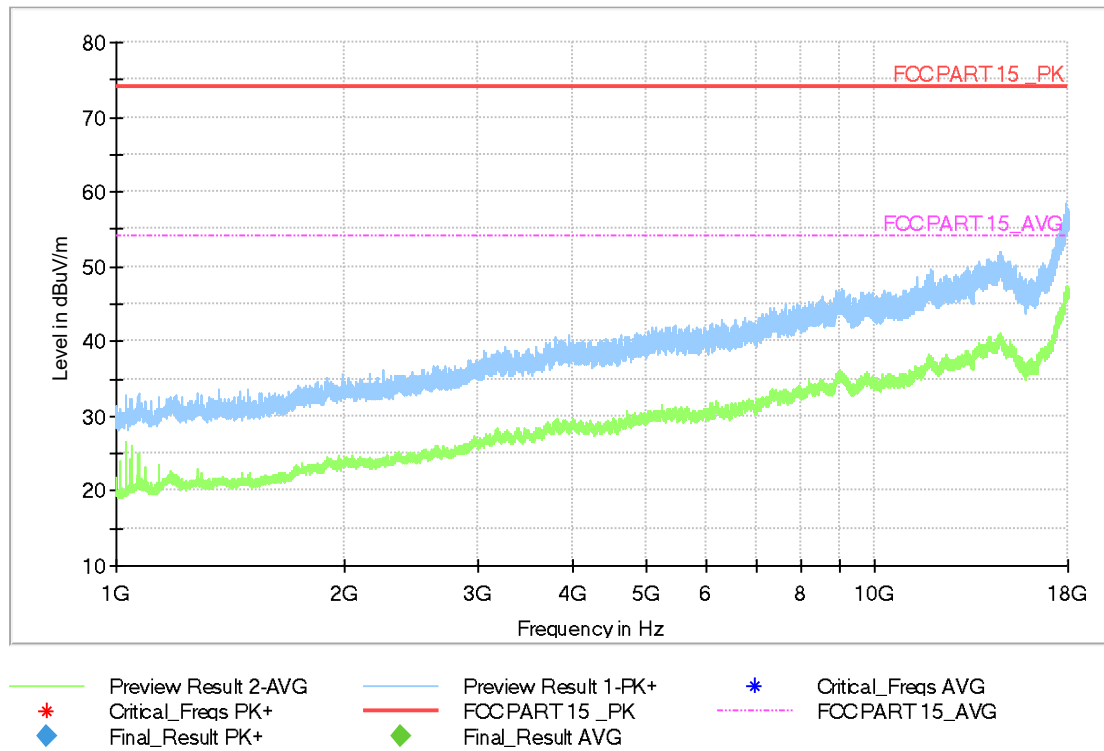


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

Full Spectrum

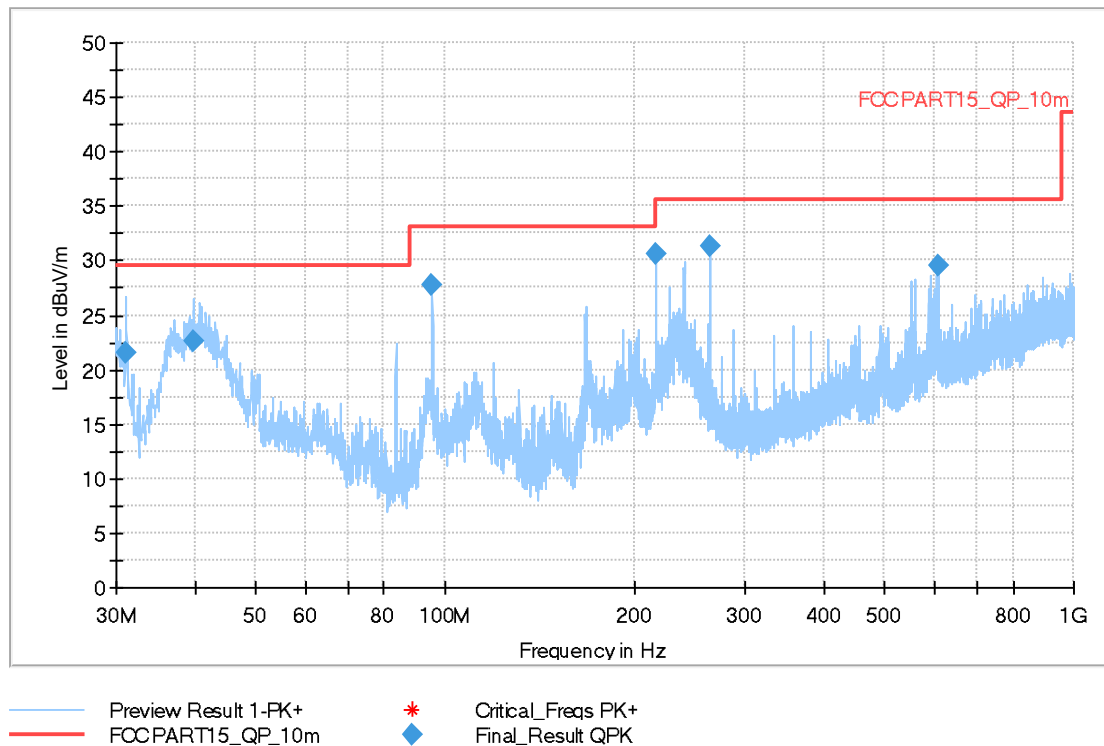


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.115500	21.55	29.54	7.99	120.000	106.0	V	195.0
39.797000	22.56	29.54	6.98	120.000	205.0	V	151.0
95.523500	27.69	33.06	5.37	120.000	106.0	V	45.0
215.997500	30.68	33.06	2.38	120.000	100.0	V	1.0
264.012500	31.34	35.56	4.22	120.000	325.0	H	81.0
608.168500	29.58	35.56	5.98	120.000	216.0	V	301.0

Full Spectrum

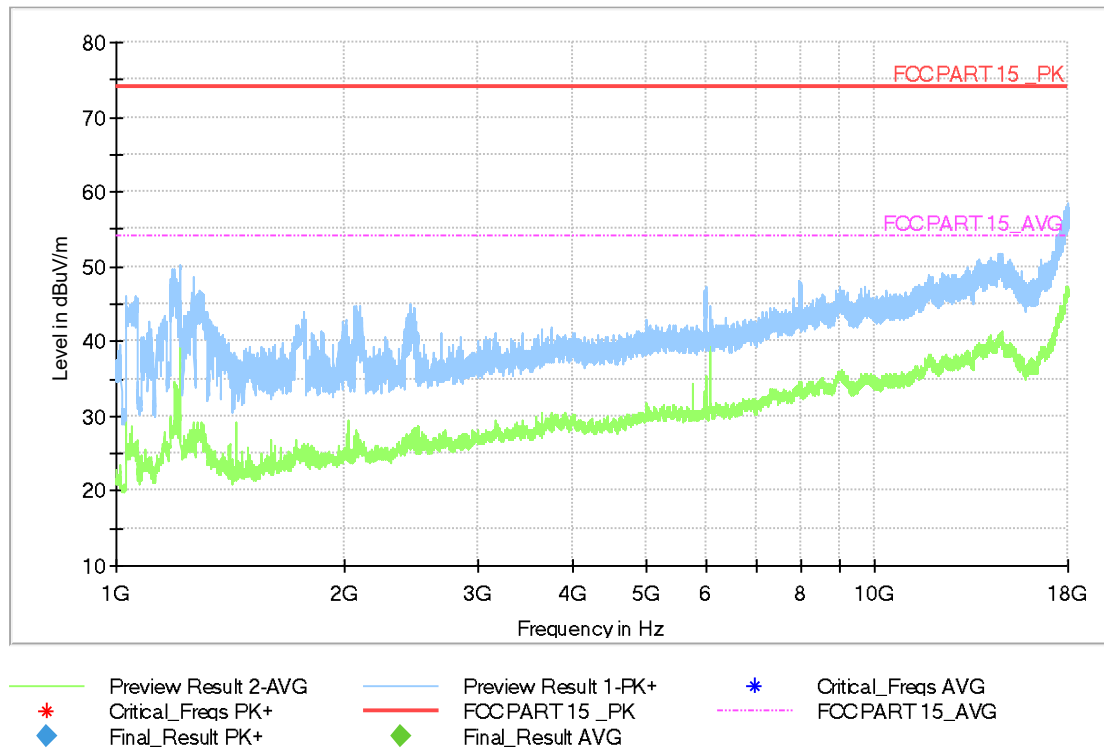


Fig A.6 Radiated Emission from 1GHz to 18GHz

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. During the test MS is connected to a PC via a USB cable and is connected to a charger in the case of charging mode. The model of the PC is DELL M4000E-17, and the serial number of the PC is M706GWXD. 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.

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: $U = 3.08 \text{ dB}$, $k=2$.

Charging Mode, Set.1:

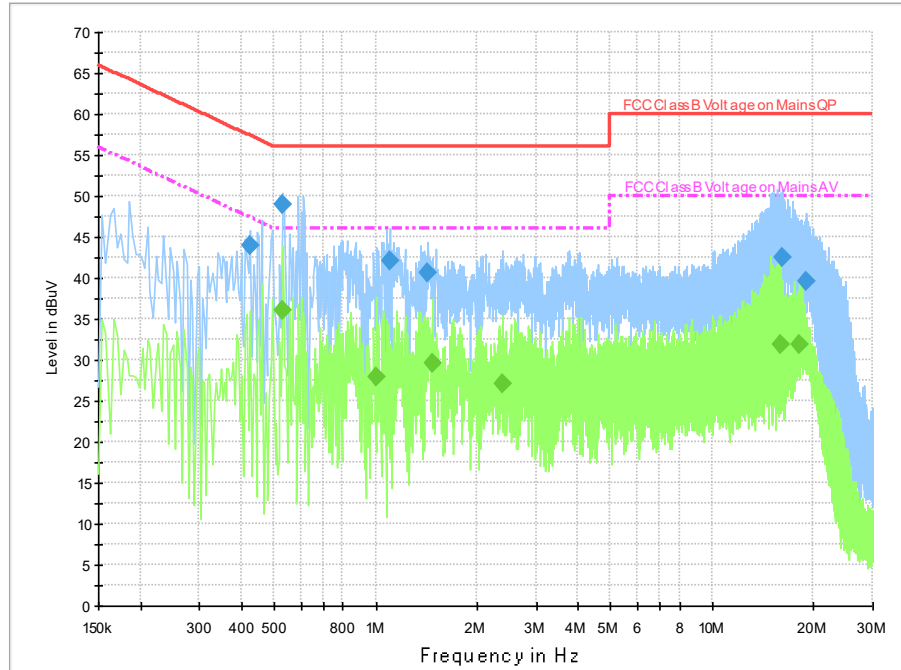


Fig A.7 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.422000	44.1	2000.0	9.000	On	N	19.9	13.4	57.4	
0.530000	48.9	2000.0	9.000	On	L1	20.0	7.1	56.0	
1.102000	42.1	2000.0	9.000	On	L1	19.9	13.9	56.0	
1.434000	40.6	2000.0	9.000	On	L1	19.9	15.4	56.0	
16.174000	42.4	2000.0	9.000	On	N	19.8	17.6	60.0	
19.002000	39.5	2000.0	9.000	On	N	19.8	20.5	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.530000	36.0	2000.0	9.000	On	L1	20.0	10.0	46.0	
1.010000	27.9	2000.0	9.000	On	L1	19.9	18.1	46.0	
1.470000	29.5	2000.0	9.000	On	L1	19.9	16.5	46.0	
2.386000	27.0	2000.0	9.000	On	L1	19.8	19.0	46.0	
15.974000	31.8	2000.0	9.000	On	L1	20.0	18.2	50.0	
18.198000	31.8	2000.0	9.000	On	L1	20.0	18.2	50.0	

Charging Mode, Set.2:

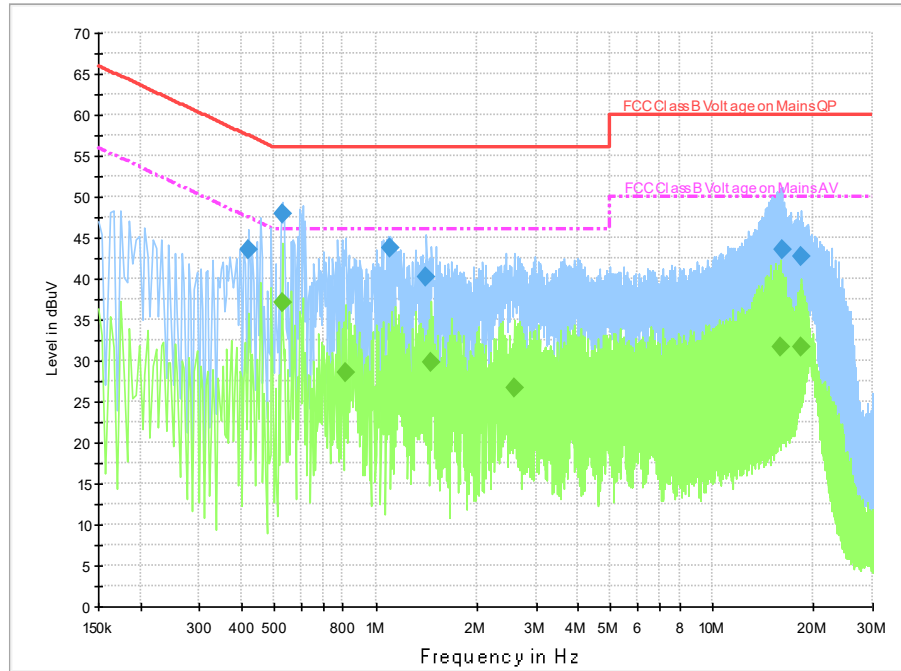


Fig A.8 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.418000	43.5	2000.0	9.000	On	N	19.9	13.9	57.5	
0.526000	47.9	2000.0	9.000	On	L1	20.0	8.1	56.0	
1.098000	43.7	2000.0	9.000	On	L1	19.9	12.3	56.0	
1.418000	40.3	2000.0	9.000	On	L1	19.9	15.8	56.0	
16.070000	43.5	2000.0	9.000	On	N	19.8	16.5	60.0	
18.354000	42.6	2000.0	9.000	On	L1	20.0	17.4	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.526000	37.1	2000.0	9.000	On	L1	20.0	8.9	46.0	
0.818000	28.6	2000.0	9.000	On	L1	19.9	17.4	46.0	
1.466000	29.7	2000.0	9.000	On	L1	19.9	16.3	46.0	
2.574000	26.7	2000.0	9.000	On	L1	19.8	19.3	46.0	
16.038000	31.6	2000.0	9.000	On	L1	20.0	18.4	50.0	
18.354000	31.7	2000.0	9.000	On	L1	20.0	18.3	50.0	

USB charging Mode, Set.3:

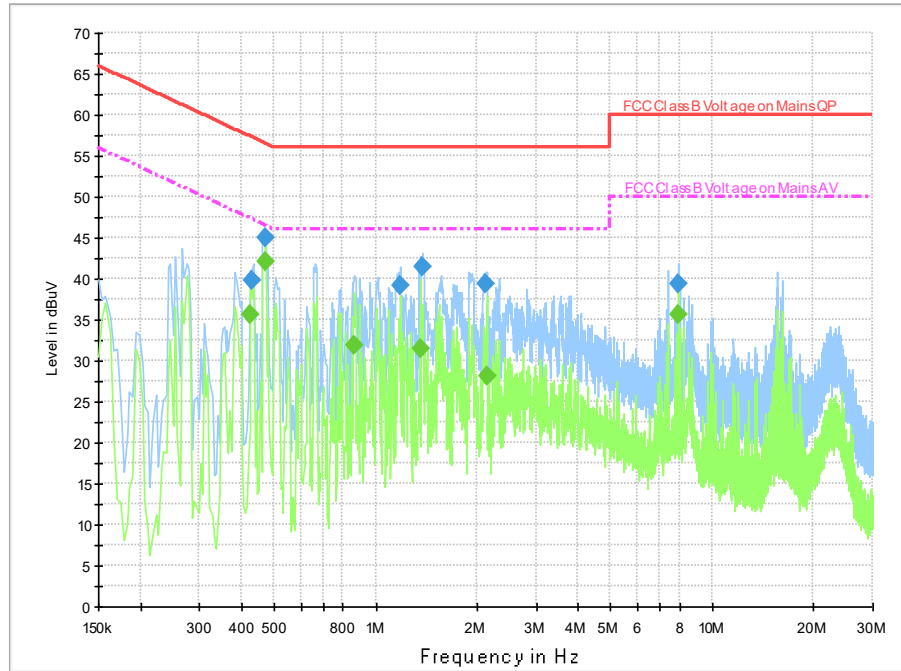


Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	39.8	2000.0	9.000	On	L1	20.0	17.4	57.3	
0.470000	44.9	2000.0	9.000	On	N	19.9	11.6	56.5	
1.182000	39.3	2000.0	9.000	On	N	19.7	16.7	56.0	
1.382000	41.6	2000.0	9.000	On	L1	19.9	14.4	56.0	
2.126000	39.3	2000.0	9.000	On	L1	19.8	16.7	56.0	
7.926000	39.3	2000.0	9.000	On	L1	19.9	20.7	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	35.6	2000.0	9.000	On	L1	20.0	11.7	47.3	
0.470000	42.1	2000.0	9.000	On	N	19.9	4.5	46.5	
0.866000	32.0	2000.0	9.000	On	L1	19.9	14.0	46.0	
1.354000	31.4	2000.0	9.000	On	N	19.7	14.6	46.0	
2.134000	28.1	2000.0	9.000	On	L1	19.8	17.9	46.0	
7.926000	35.6	2000.0	9.000	On	L1	19.9	14.4	50.0	

END OF REPORT