



# FCC PART 15B TEST REPORT

No. I21Z62272-EMC01

for

**TCL Communication Ltd.**

**GSM/UMTS/LTE mobile phone**

**Model name: T701DL, T671G**

**FCC ID: 2ACCJN055**

with

**Hardware Version: PIO**

**Software Version: vC47**

**Issued Date: 2022-01-17**

**Note:**

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## **REPORT HISTORY**

Report Number	Revision	Description	Issue Date
I21Z62272-EMC01	Rev.0	1 <sup>st</sup> edition	2022-01-17

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: 2021-12-23

Testing End Date: 2022-01-14

### **1.4. Signature**



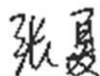
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## **2. Client Information**

### **2.1. Applicant Information**

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### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
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Contact Email peter.yang@tcl.com  
Telephone: 0086-755-36645759  
Fax: 0086-755-36612000-81722

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

#### 3.1. About EUT

Description	GSM/UMTS/LTE Mobile phone
Model Name	T701DL, T671G
FCC ID:	2ACCJN055

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
EUT1	016054000025683	PIO	vC47

\*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	Battery	/	/
AE2	USB Cable	/	/
AE3	Charger1	/	/
AE4	Charger2	/	/
AE5	Headset	/	/

##### AE1

Model	TLp048A7
Manufacturer	VEKEN
Capacity	4850mAh
Nominal Voltage	3.85

##### AE2

Model	CDA00001721C1
Manufacturer	JUWEI
Length of cable	/

##### AE3

Model	QC13US
Manufacturer	BYD
Length of cable	/

##### AE4

Model	QC13US
Manufacturer	PUAN
Length of cable	/

##### AE5

Model	/
Manufacturer	/
Length of cable	/

\*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	EUT1 + AE1 + AE2 + AE3	Charger1 + REAR Camera + GSM 850 idle
Set.2	EUT1 + AE1 + AE2 + AE4	Charger2 + MP4 + WCDMA 850 idle
Set.3	EUT1 + AE1 + AE2 + AE5	USB + front camera +LTE B5 idle + FM

**Note:**

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

It supports

GSM Frequency Band      GSM 900/GSM 1800/GSM 1900/GSM 850

UMTS Frequency Band    FDD Band II(W1900) /FDD Band IV(W1700)/FDD Band V(W850)

LTE Frequency Band      LTE FDD Bands 2/4/5/12/13/25/26/66/71, LTE FDD Bands 41.

It has MP3, Camera, USB memory, FM, Bluetooth 5.0, Wi-Fi (802.11b/g/n/a/ac, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ac supports 20MHz, 40MHz and 80MHz bandwidth) , GNSS functions

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5/12/13/26/71. 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.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
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** (10 meters×6.7meters×6.1meters) 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	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 3m distance
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 6GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

**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

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)

## 7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100235	R&S	2022-02-23	1 Year
2	LISN	ENV216	101200	R&S	2022-05-30	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 year
4	Test Receiver	ESCI 7	100344	R&S	2022-02-23	1 Year
5	EMI Antenna	VULB 9163	01223	Schwarzbeck	2022-03-22	1 year
6	EMI Antenna	3115	6914	ETS-Lindgren	2022-02-03	1 year
7	Signal Generator	SMBV100A	260613	R&S	2023-01-09	1 year

## **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 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 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 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.

#### **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:

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

Where

$G_A$ : Antenna factor of receive antenna

$G_{PL}$ : Path Loss

$P_{\text{Mea}}$ : Measurement result on receiver.

Measurement uncertainty (worst case):  $U = 4.74 \text{ dB}$ ,  $k=2$ .

#### Measurement results for Set.1:

##### Charing 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)
17943.900	46.3	-28.9	46.7	28.6	54.0	7.7	H
17340.400	46.2	-30.0	43.4	32.8	54.0	7.8	H
17958.067	46.1	-28.9	46.7	28.4	54.0	7.9	H
17629.967	46.0	-29.4	45.2	30.2	54.0	8.0	V
17972.800	46.0	-29.1	46.7	28.4	54.0	8.0	V
17786.367	46.0	-29.9	46.0	29.9	54.0	8.0	V

##### Charging 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)
17958.067	56.0	-28.9	46.7	38.3	74.0	18.0	H
17315.467	55.4	-29.5	43.4	41.5	74.0	18.6	V
17961.467	55.4	-29.1	46.7	37.8	74.0	18.6	H
17960.900	55.3	-29.1	46.7	37.7	74.0	18.7	V
17246.333	55.2	-30.0	43.4	41.9	74.0	18.8	V
17973.933	55.2	-29.1	46.7	37.6	74.0	18.8	H

**Measurement results for Set.2:**
**Charing 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)
17984.700	46.3	-29.1	46.7	28.7	54.0	7.7	H
17931.433	46.3	-29.4	46.7	29.0	54.0	7.7	H
17152.267	46.1	-29.9	42.4	33.6	54.0	7.9	H
17996.033	46.1	-29.1	46.7	28.5	54.0	7.9	V
17990.367	46.0	-29.1	46.7	28.4	54.0	8.0	H
17950.700	46.0	-28.9	46.7	28.3	54.0	8.0	V

**Charging 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)
17996.0	55.9	-29.1	46.7	38.3	74.0	18.1	H
17986.4	55.8	-29.1	46.7	38.2	74.0	18.2	V
17440.7	55.5	-29.9	44.4	41.0	74.0	18.5	H
17933.1	55.4	-29.4	46.7	38.1	74.0	18.6	V
17645.8	55.3	-29.6	45.2	39.7	74.0	18.7	H
17828.3	55.3	-29.7	46.0	39.0	74.0	18.7	H

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

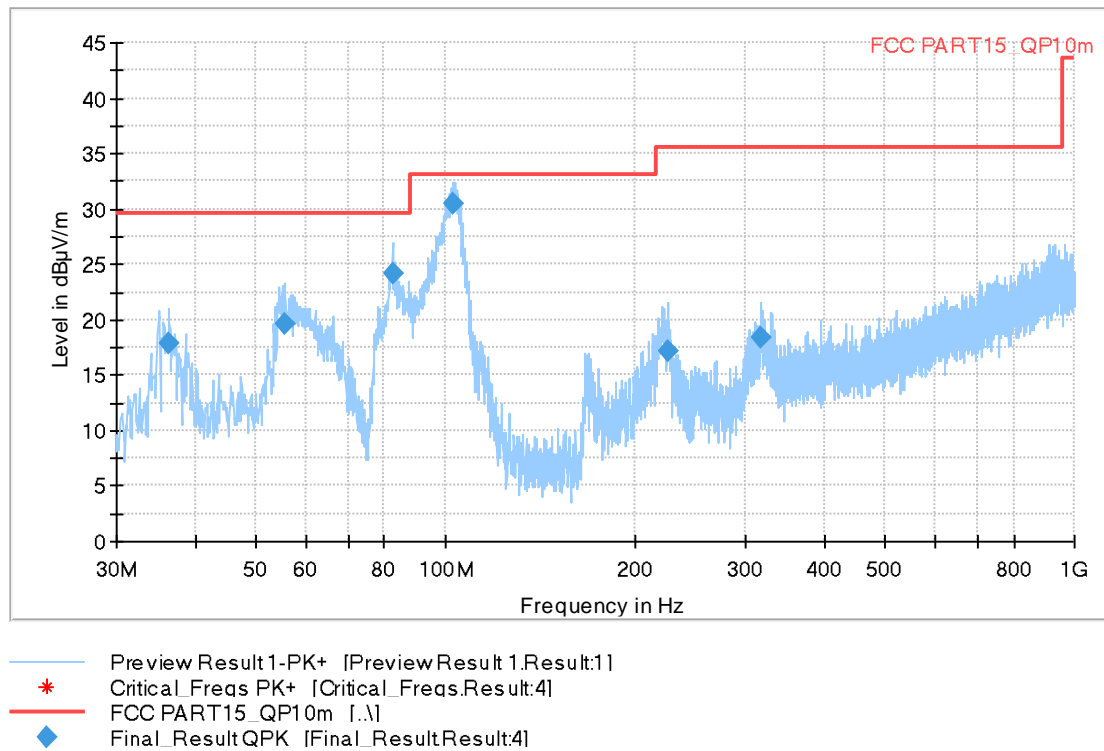
Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17901.400	46.4	-29.3	46.0	29.8	54.0	7.6	V
17997.733	46.4	-29.1	46.7	28.8	54.0	7.6	V
17922.933	46.4	-29.4	46.7	29.1	54.0	7.6	V
17217.433	46.3	-29.5	43.4	32.4	54.0	7.7	V
17986.967	46.2	-29.1	46.7	28.6	54.0	7.8	H
17147.733	46.1	-29.9	42.4	33.6	54.0	7.9	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)
17905.933	56.0	-29.3	46.0	39.4	74.0	18.0	V
17968.267	55.9	-29.1	46.7	38.3	74.0	18.1	H
17981.867	55.9	-29.1	46.7	38.3	74.0	18.1	H
17187.400	55.7	-29.5	42.4	42.8	74.0	18.3	V
17963.733	55.6	-29.1	46.7	38.0	74.0	18.4	V
17922.933	55.5	-29.4	46.7	38.2	74.0	18.5	V

## Measurement results for Set.1:

Full Spectrum



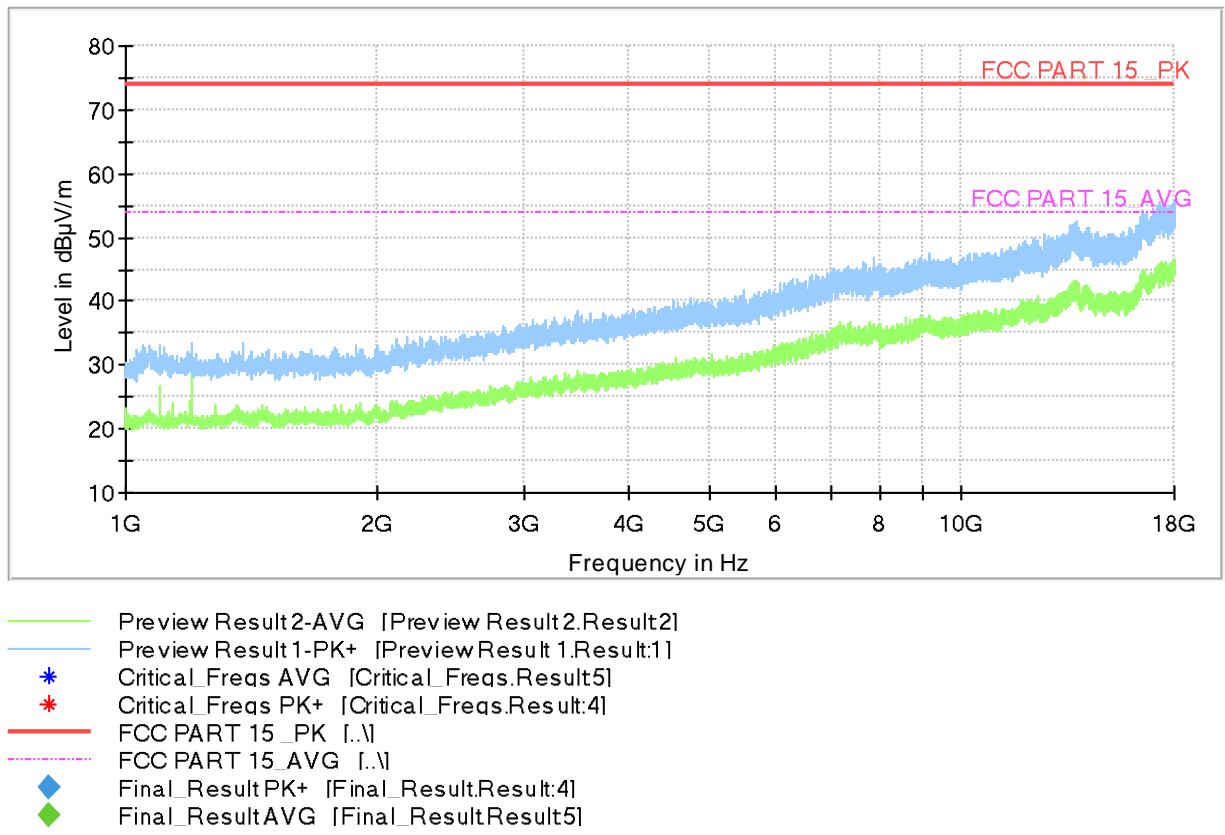
**Fig A.1 Radiated Emission from 30MHz to 1GHz**

## Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.305000	17.83	29.54	11.71	2000.0	120.000	276.0	V	60.0
55.511000	19.57	29.54	9.97	2000.0	120.000	295.0	V	281.0
82.380000	24.13	29.54	5.41	2000.0	120.000	175.0	V	60.0
102.556000	30.46	33.06	2.60	2000.0	120.000	107.0	V	30.0
226.231000	17.17	35.56	18.39	2000.0	120.000	101.0	V	189.0
317.993000	18.36	35.56	17.20	2000.0	120.000	125.0	V	120.0



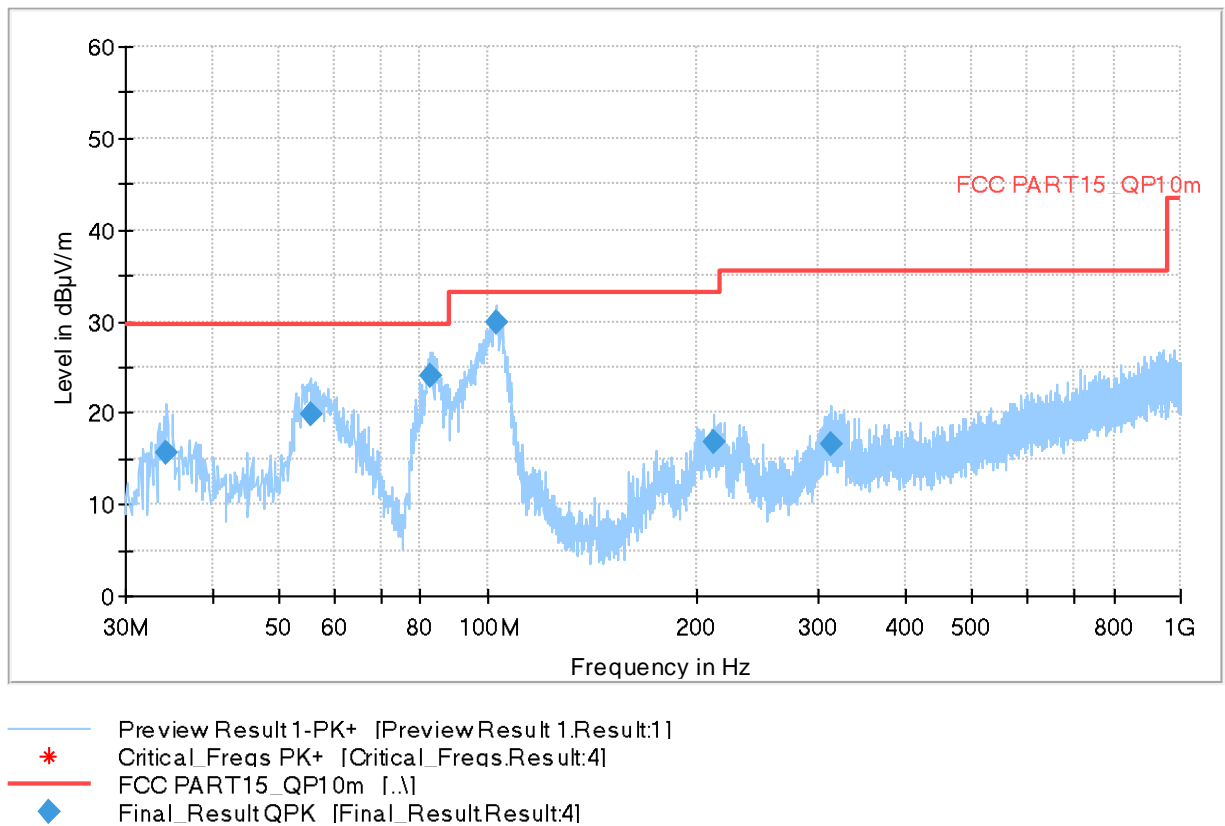
Full Spectrum



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

## Measurement results for Set.2:

### Full Spectrum

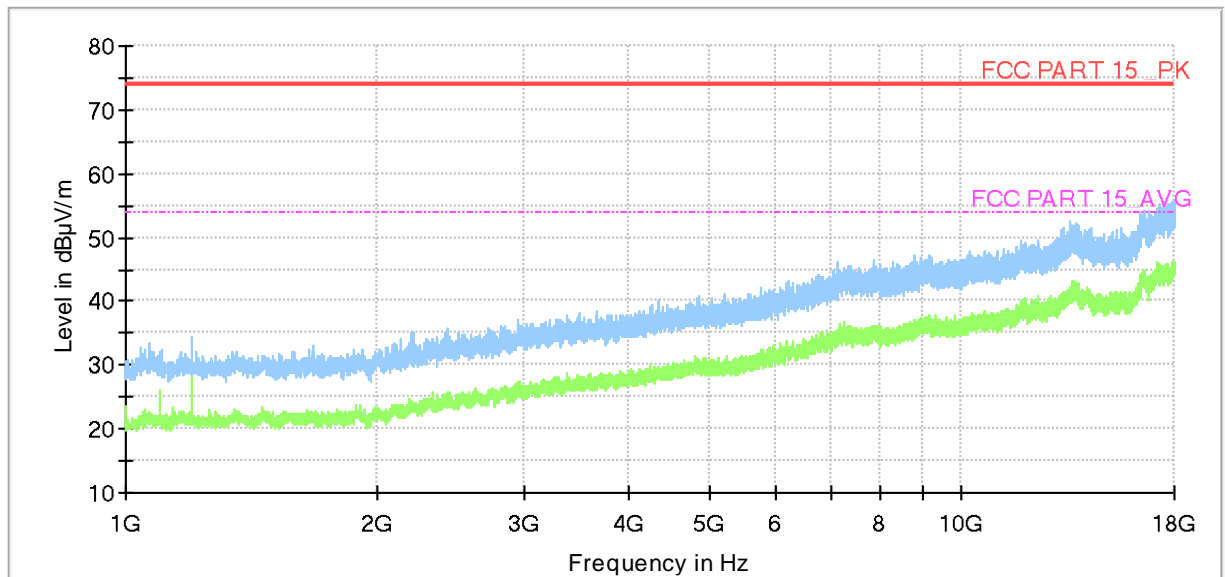


**Fig A.3 Radiated Emission from 30MHz to 1GHz**

## Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
34.365000	15.73	29.54	13.81	2000.0	120.000	101.0	V	61.0
55.414000	19.86	29.54	9.68	2000.0	120.000	100.0	V	30.0
82.768000	24.16	29.54	5.38	2000.0	120.000	200.0	V	180.0
103.138000	29.80	33.06	3.26	2000.0	120.000	101.0	V	240.0
212.457000	16.72	33.06	16.34	2000.0	120.000	121.0	V	30.0
313.822000	16.62	35.56	18.94	2000.0	120.000	109.0	V	80.0

Full Spectrum

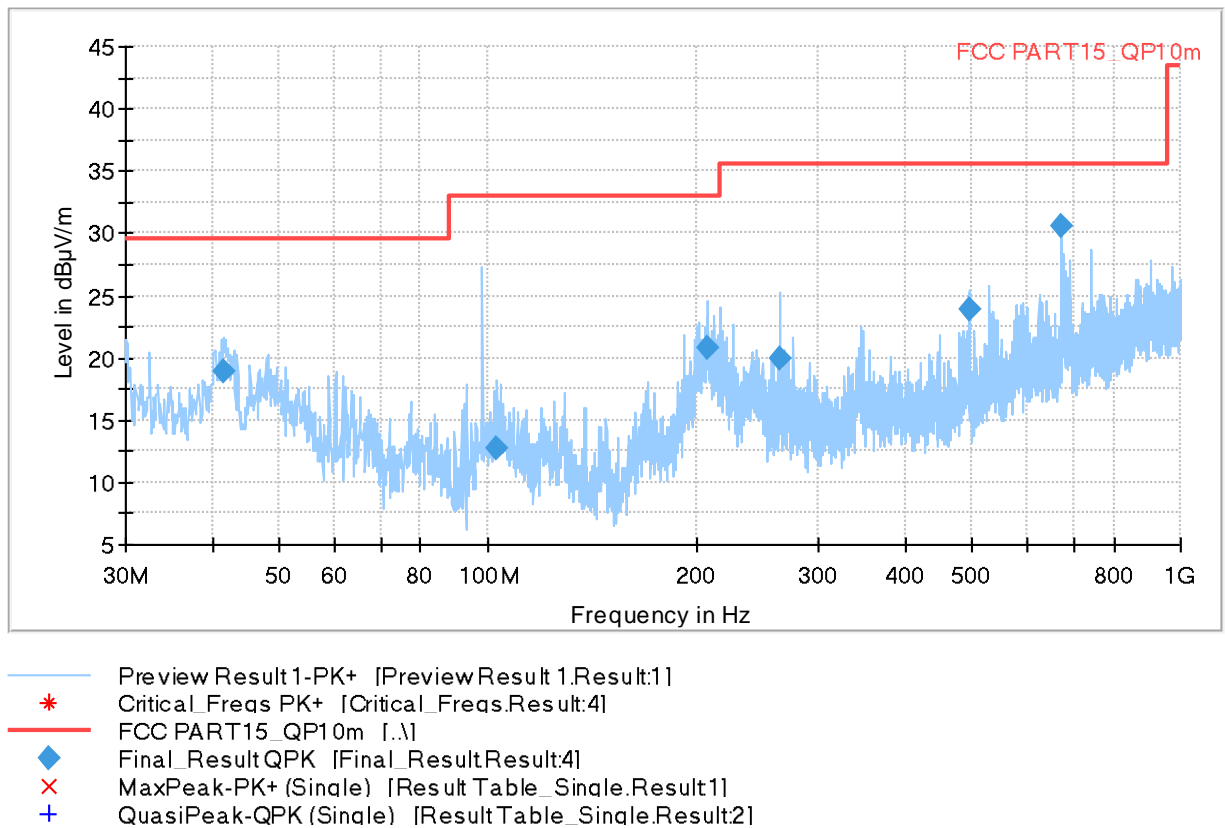


- Preview Result 2-AVG [Preview Result 2.Result 2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- \* Critical\_Freqs AVG [Critical\_Freqs.Result:5]
- \* Critical\_Freqs PK+ [Critical\_Freqs.Result:4]
- FCC PART 15\_PK [..]
- - - FCC PART 15\_AVG [..]
- ◆ Final\_Result PK+ [Final\_Result.Result:4]
- ◆ Final\_Result AVG [Final\_Result.Result:5]

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

### Measurement results for Set.3:

#### Full Spectrum

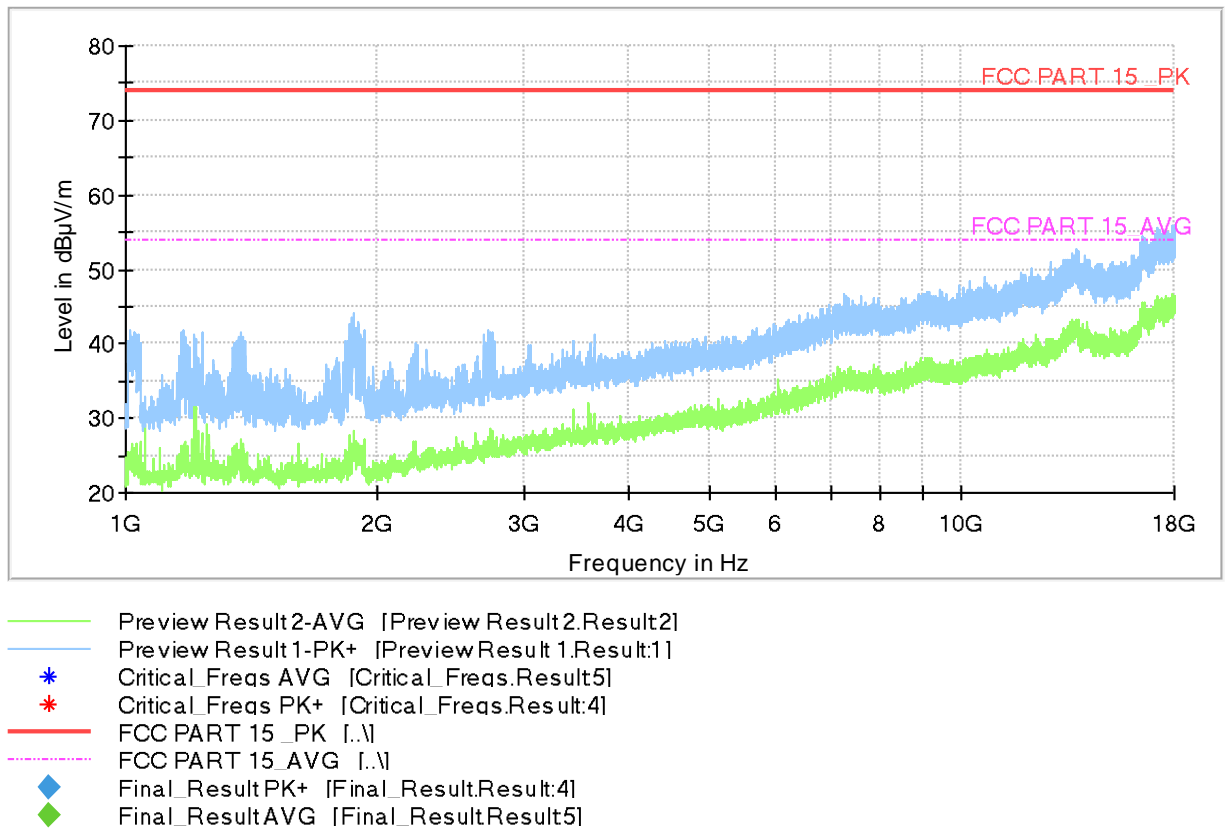


**Fig A.5 Radiated Emission from 30MHz to 1GHz**

### Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
41.446000	18.92	29.54	10.62	2000.0	120.000	205.0	V	121.0
103.235000	12.71	33.06	20.35	2000.0	120.000	310.0	V	121.0
206.928000	20.81	33.06	12.25	2000.0	120.000	107.0	V	60.0
263.964000	20.01	35.56	15.55	2000.0	120.000	118.0	V	80.0
494.533000	23.84	35.56	11.72	2000.0	120.000	285.0	V	300.0
673.110000	30.63	35.56	4.93	2000.0	120.000	181.0	V	300.0

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 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 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 (dB $\mu$ V)	
	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:  $U= 3.1 \text{ dB}$ ,  $k=2$ .

### Charging Mode, Set.1:

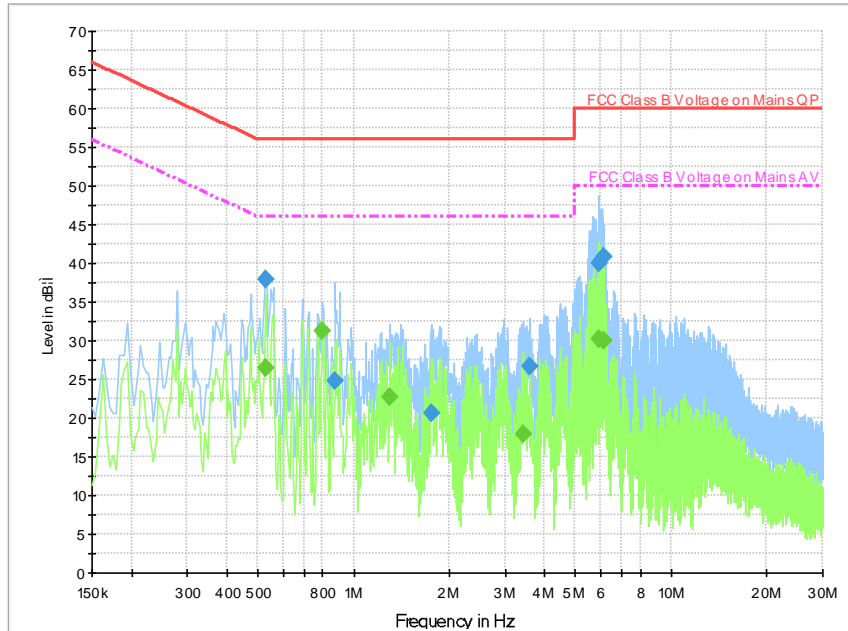


Fig A.7 Conducted Emission from 150kHz to 30MHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.530000	38.0	2000.0	9.000	On	L1	19.9	18.0	56.0	
0.874000	24.8	2000.0	9.000	On	N	19.8	31.2	56.0	
1.750000	20.7	2000.0	9.000	On	L1	19.5	35.3	56.0	
3.586000	26.7	2000.0	9.000	On	N	19.7	29.3	56.0	
5.930000	39.9	2000.0	9.000	On	L1	19.5	20.1	60.0	
6.134000	40.7	2000.0	9.000	On	L1	19.6	19.3	60.0	

### Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.526000	26.5	2000.0	9.000	On	L1	19.9	19.5	46.0	
0.798000	31.2	2000.0	9.000	On	L1	19.7	14.8	46.0	
1.298000	22.8	2000.0	9.000	On	L1	19.5	23.2	46.0	
3.426000	17.9	2000.0	9.000	On	L1	19.5	28.1	46.0	
5.930000	30.2	2000.0	9.000	On	L1	19.5	19.8	50.0	
6.134000	30.1	2000.0	9.000	On	L1	19.6	19.9	50.0	

## Charging Mode, Set.2:

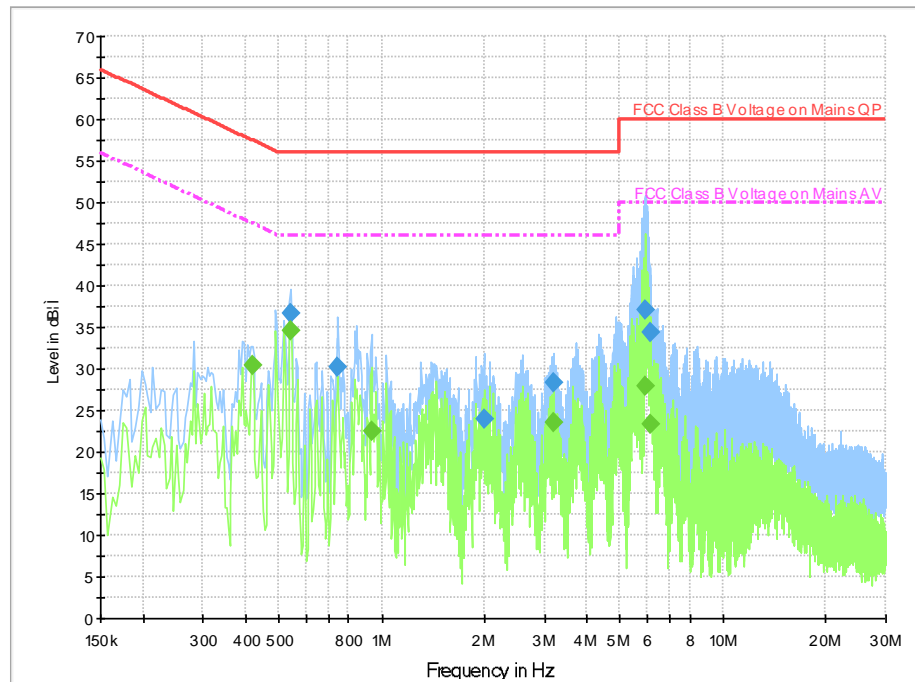


Fig A.8 Conducted Emission from 150kHz to 30MHz

### Final Result 1

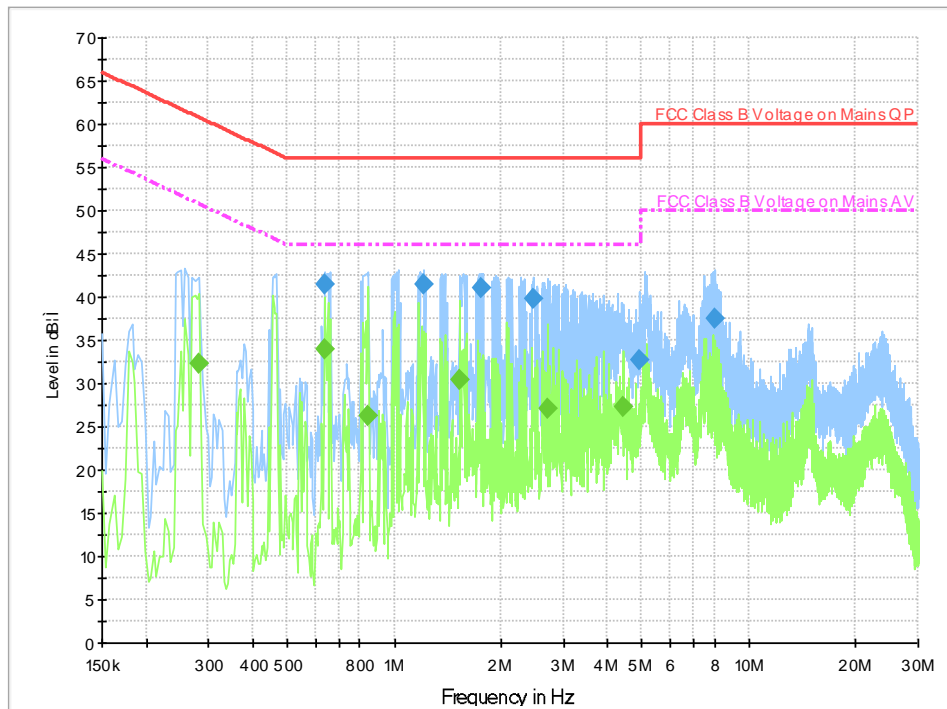
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.542000	36.7	2000.0	9.000	On	L1	19.9	19.3	56.0	
0.746000	30.1	2000.0	9.000	On	N	19.8	25.9	56.0	
1.990000	23.9	2000.0	9.000	On	L1	19.4	32.1	56.0	
3.174000	28.4	2000.0	9.000	On	L1	19.5	27.6	56.0	
5.938000	37.0	2000.0	9.000	On	L1	19.5	23.0	60.0	
6.146000	34.4	2000.0	9.000	On	N	19.7	25.6	60.0	

### Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.418000	30.4	2000.0	9.000	On	L1	19.9	17.0	47.5	
0.542000	34.6	2000.0	9.000	On	L1	19.9	11.4	46.0	
0.934000	22.4	2000.0	9.000	On	L1	19.6	23.6	46.0	
3.174000	23.6	2000.0	9.000	On	L1	19.5	22.4	46.0	
5.910000	27.9	2000.0	9.000	On	L1	19.5	22.1	50.0	
6.122000	23.3	2000.0	9.000	On	N	19.7	26.7	50.0	



**USB 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
0.634000	41.5	2000.0	9.000	On	L1	19.7	14.5	56.0	
1.210000	41.5	2000.0	9.000	On	N	19.8	14.5	56.0	
1.770000	41.0	2000.0	9.000	On	N	19.8	15.0	56.0	
2.462000	39.7	2000.0	9.000	On	N	19.7	16.3	56.0	
4.894000	32.7	2000.0	9.000	On	N	19.8	23.3	56.0	
8.026000	37.4	2000.0	9.000	On	N	19.7	22.6	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.282000	32.3	2000.0	9.000	On	N	19.9	18.5	50.8	
0.634000	33.9	2000.0	9.000	On	L1	19.7	12.1	46.0	
0.846000	26.2	2000.0	9.000	On	N	19.8	19.8	46.0	
1.534000	30.5	2000.0	9.000	On	L1	19.5	15.5	46.0	
2.714000	27.0	2000.0	9.000	On	N	19.7	19.0	46.0	
4.422000	27.2	2000.0	9.000	On	N	19.7	18.8	46.0	

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