



# FCC PART 15B TEST REPORT

No. I22Z61632-EMC01

for

**TCL Communication Ltd**

**Tablet PC**

**Model Name: 9137W**

**FCC ID: 2ACCJB190**

with

**Hardware Version: 04**

**Software Version: HUS1**

**Issued Date: 2022-09-26**

**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

Email: [ctl\\_terminals@caict.ac.cn](mailto:ctl_terminals@caict.ac.cn), website: [www.caict.ac.cn](http://www.caict.ac.cn)



## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z61632-EMC01	Rev.0	1 <sup>st</sup> edition	2022-09-26

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



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## 1. Test Laboratory

### 1.1. Testing Location

Location 1: 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: 2022-09-15

Testing End Date: 2022-09-26

### 1.4. Signature



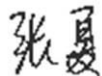
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Wang Xue  
(Prepared this test report)



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Zhang Ying  
(Reviewed this test report)



---

Zhang Xia  
(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd  
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong  
Contact: Annie Jiang  
Email: nianxiang.jiang@tcl.com  
Telephone: +86 755 3661 1621  
Fax: 0086-755-36612000-81722

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd  
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong  
Contact: Annie Jiang  
Email: nianxiang.jiang@tcl.com  
Telephone: +86 755 3661 1621  
Fax: 0086-755-36612000-81722

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

#### **3.1. About EUT**

Description	Tablet PC
Model Name	9137W
FCC ID:	2ACCJB190

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	163070000011573	04	HUS1

\*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	Battery	/	/
AE3	USB Cable	/	/
AE4	USB Cable	/	/
AE5	Charger1	/	/
AE6	Charger2	/	/

##### AE1

Model	TLp040M7
Manufacturer	Veken
Capacity	4080mAh
Nominal Voltage	3.85V

##### AE2

Model	TLp040M1
Manufacturer	BYD
Capacity	4080mAh
Nominal Voltage	3.85V

##### AE3

Model	CDA0000123C1
Manufacturer	Juwei
Length of cable	/

##### AE4

Model	CDA0000123C2
Manufacturer	Shenghua
Length of cable	/

##### AE5

Model	UC13US
Manufacturer	PUAN
Length of cable	/

AE6

Model	UC13US
Manufacturer	BYD
Length of cable	/

### 3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1 + AE1/2 + AE3/4 + AE5	Charger1 +REAR Camera+GSM 850 idle
Set.2	EUT1 + AE1/2 + AE3/4 + AE6	Charger2+MP4+WCDMA 850 idle
Set.3	EUT1 + AE1/2 + AE3/4	USB+ front camera+LTE B5 idle

Note:

Equipment Under Test (EUT) is a model of Smart Phone with integrated antenna.

It supports

GSM Band	GSM850/GSM900/DCS1800/PCS1900
UMTS Band	FDD Band II(W1900) /FDD Band IV(W1700)/FDD Band V(W850)
LTE Band	FDD 2/4/5/7/12/13/17/25/26/29/30/66/71, TDD41

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

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5/12/13/17/26/29/71. 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	CALIBRATION INTERVAL
1	Test Receiver	ESW44	103023	R&S	2022-10-28	1 Year
2	LISN	ENV216	101200	R&S	2023-06-29	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 year
4	Test Receiver	ESCI 7	100344	R&S	2023-03-21	1 Year
5	EMI Antenna	VULB 9163	302	SCHWARZBECK	2022-12-28	1 year
6	EMI Antenna	3115	00167250	ETS-Lindgren	2023-06-20	1 year
7	Software	EMC32	/	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 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 ( $\mu\text{V}/\text{m}$ )		
	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 (30MHz-1GHz):  $U = 5.15 \text{ dB}$ ,  $k=2$ .

Measurement uncertainty ( $\geq 1\text{GHz}$ ):  $U = 5.54 \text{ dB}$ ,  $k=2$ .

#### Measurement results for Set.1:

##### Charing Mode/Average detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17878.280	41.10	-29.39	45.95	24.54	54.00	12.90	V
17625.320	41.10	-29.40	45.25	25.25	54.00	12.90	H
17791.240	41.10	-29.89	45.95	25.03	54.00	12.90	H
17782.740	41.00	-29.89	45.95	24.93	54.00	13.00	H
17643.340	41.00	-29.60	45.25	25.35	54.00	13.00	H
17797.700	40.90	-29.89	45.95	24.83	54.00	13.10	V

##### Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17633.480	52.20	-29.40	45.25	36.35	74.00	21.80	V
17341.420	51.70	-29.97	43.36	38.31	74.00	22.30	V
17803.820	51.50	-29.63	45.95	35.18	74.00	22.50	V
17636.200	51.30	-29.40	45.25	35.45	74.00	22.70	H
17804.840	51.20	-29.63	45.95	34.88	74.00	22.80	H
17503.260	51.20	-29.26	44.35	36.10	74.00	22.80	V

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

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17663.060	41.10	-29.90	45.25	25.75	54.00	12.90	H
17804.840	40.90	-29.63	45.95	24.58	54.00	13.10	H
17488.980	40.90	-29.77	44.35	26.32	54.00	13.10	V
17644.700	40.90	-29.60	45.25	25.25	54.00	13.10	V
17771.180	40.90	-29.63	45.95	24.57	54.00	13.10	H
17668.160	40.90	-29.90	45.25	25.55	54.00	13.10	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17484.900	51.70	-29.77	44.35	37.12	74.00	22.30	V
17631.440	51.60	-29.40	45.25	35.75	74.00	22.40	H
17284.980	51.60	-29.69	43.36	37.93	74.00	22.40	H
17750.440	51.50	-29.61	45.95	35.16	74.00	22.50	V
17796.680	51.50	-29.89	45.95	35.43	74.00	22.50	H
17647.420	51.30	-29.60	45.25	35.65	74.00	22.70	V

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

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
6050.020	42.70	-37.82	34.40	46.12	54.00	11.30	V
6049.680	42.40	-37.82	34.40	45.82	54.00	11.60	H
17545.080	41.60	-29.49	44.35	26.73	54.00	12.40	V
17630.420	41.40	-29.40	45.25	25.55	54.00	12.60	H
17767.780	41.20	-29.63	45.95	24.87	54.00	12.80	V
17616.820	41.10	-29.52	45.25	25.37	54.00	12.90	H

**USB Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17586.900	52.20	-29.70	45.25	36.65	74.00	21.80	V
17373.040	51.70	-29.97	43.36	38.31	74.00	22.30	V
17629.400	51.60	-29.40	45.25	35.75	74.00	22.40	H
17904.120	51.50	-29.33	45.95	34.87	74.00	22.50	V
17441.720	51.50	-29.87	44.35	37.02	74.00	22.50	V
17670.540	51.40	-29.90	45.25	36.05	74.00	22.60	V

Measurement results for Set.1:

Full Spectrum

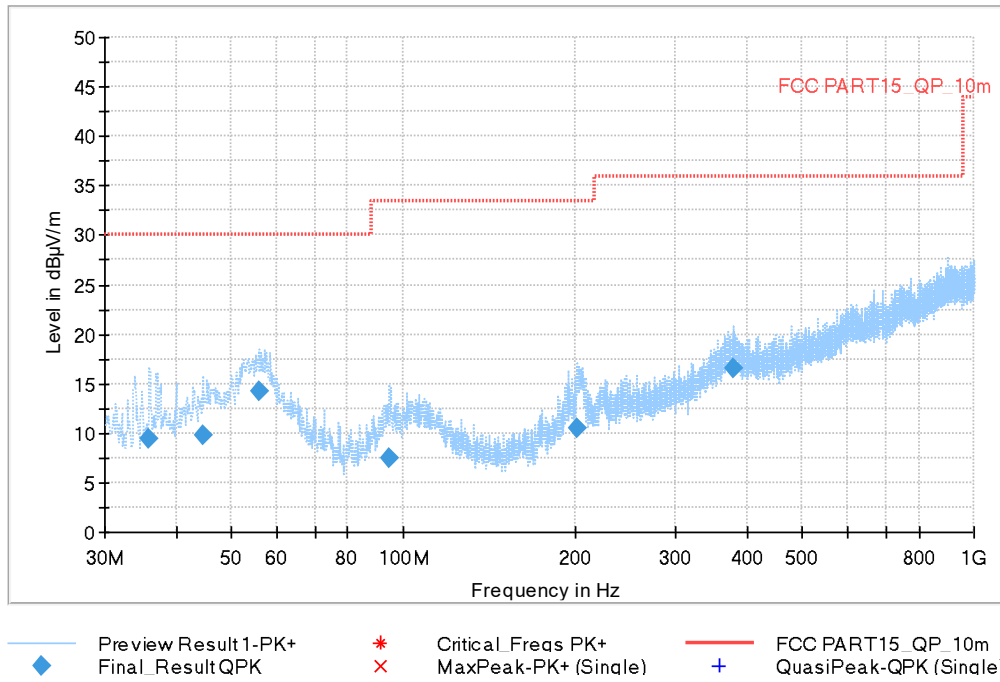


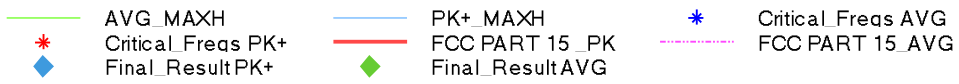
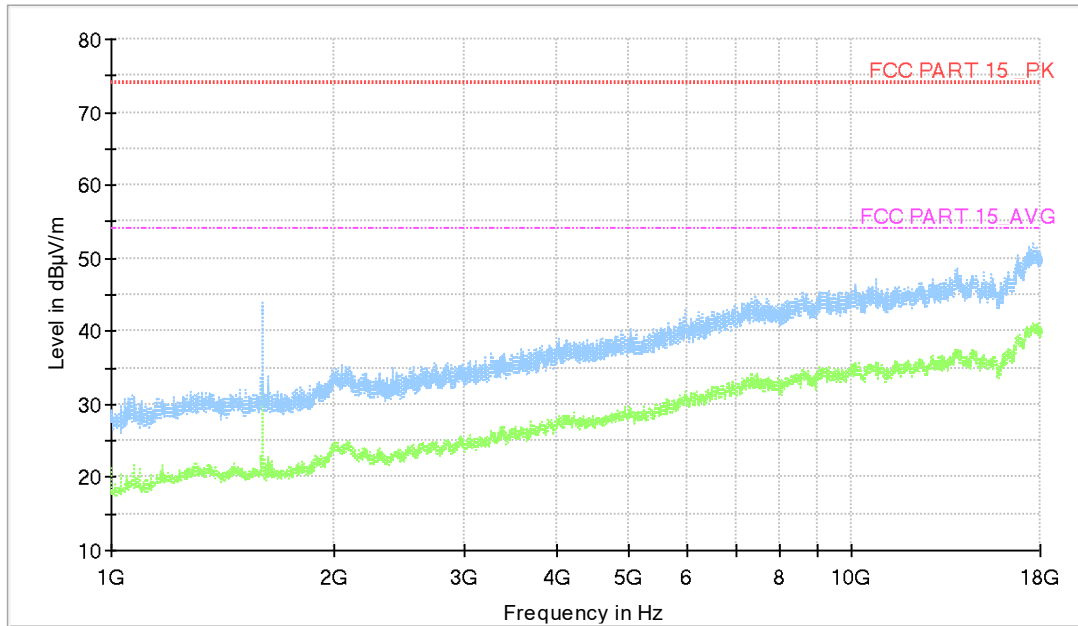
Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
35.917000	9.50	30.00	20.50	2000.0	120.000	174.0	V	163.0
44.453000	9.86	30.00	20.14	2000.0	120.000	225.0	H	315.0
55.802000	14.18	30.00	15.83	2000.0	120.000	125.0	V	73.0
94.408000	7.41	33.52	26.11	2000.0	120.000	125.0	V	135.0
201.981000	10.46	33.52	23.06	2000.0	120.000	225.0	V	266.0
379.200000	16.51	36.02	19.51	2000.0	120.000	275.0	H	47.0



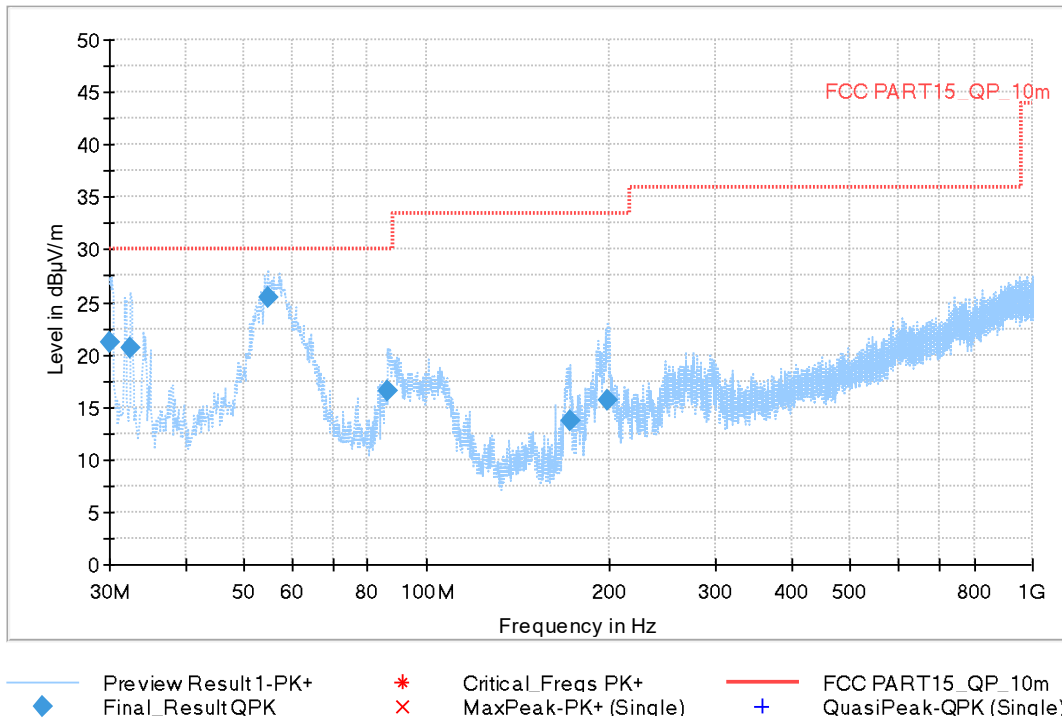
Full Spectrum



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

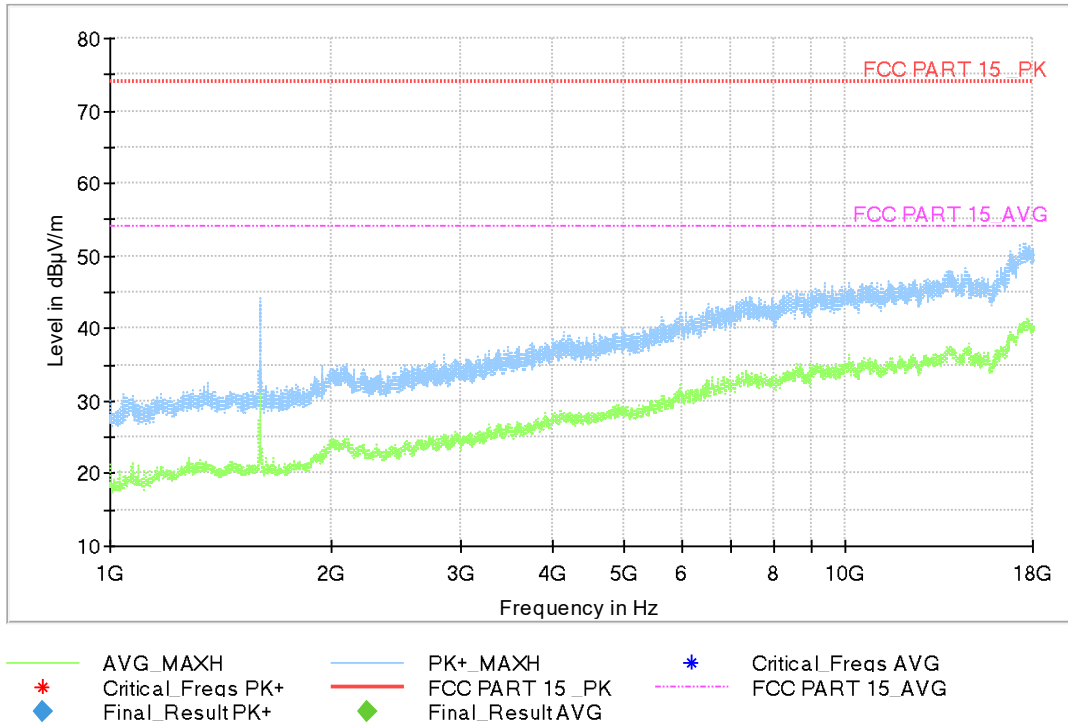
**Measurement results for Set.2:**

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)
30.097000	21.17	30.00	8.83	2000.0	120.000	100.0	V	214.0
32.522000	20.71	30.00	9.29	2000.0	120.000	175.0	V	252.0
54.638000	25.37	30.00	4.63	2000.0	120.000	100.0	V	279.0
86.066000	16.54	30.00	13.46	2000.0	120.000	125.0	V	-17.0
172.493000	13.76	33.52	19.76	2000.0	120.000	125.0	V	239.0
198.780000	15.69	33.52	17.83	2000.0	120.000	100.0	V	253.0

Full Spectrum



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

Measurement results for Set.3:

Full Spectrum

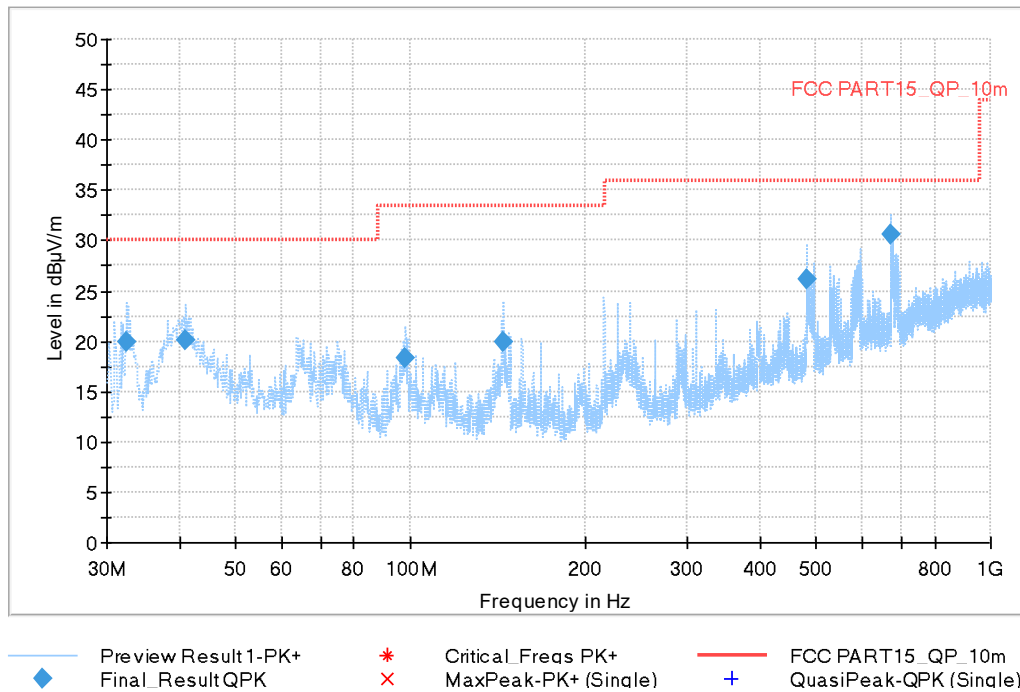
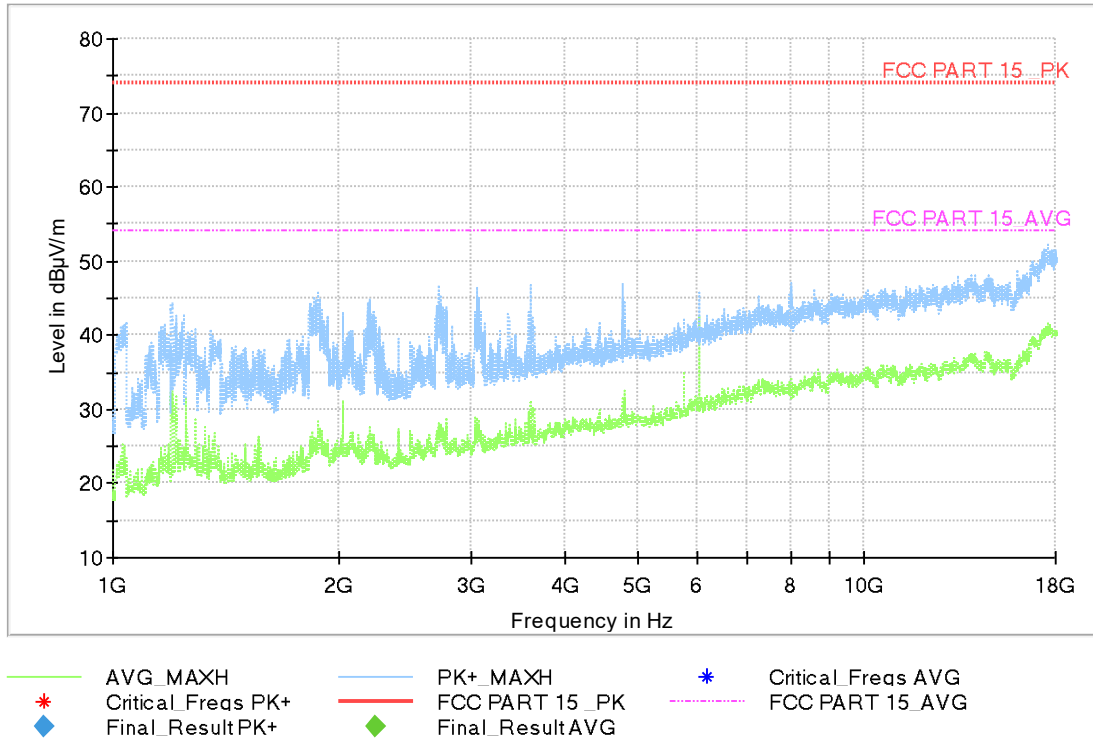


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)
32.425000	19.85	30.00	10.15	2000.0	120.000	100.0	V	163.0
41.058000	20.10	30.00	9.90	2000.0	120.000	175.0	V	137.0
98.191000	18.30	33.52	15.22	2000.0	120.000	108.0	V	23.0
144.363000	19.91	33.52	13.61	2000.0	120.000	108.0	V	-4.0
480.953000	26.08	36.02	9.94	2000.0	120.000	283.0	V	9.0
673.110000	30.68	36.02	5.34	2000.0	120.000	183.0	V	9.0

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:  $U= 3.08$  dB,  $k=2$ .

Charging Mode, Set.1:

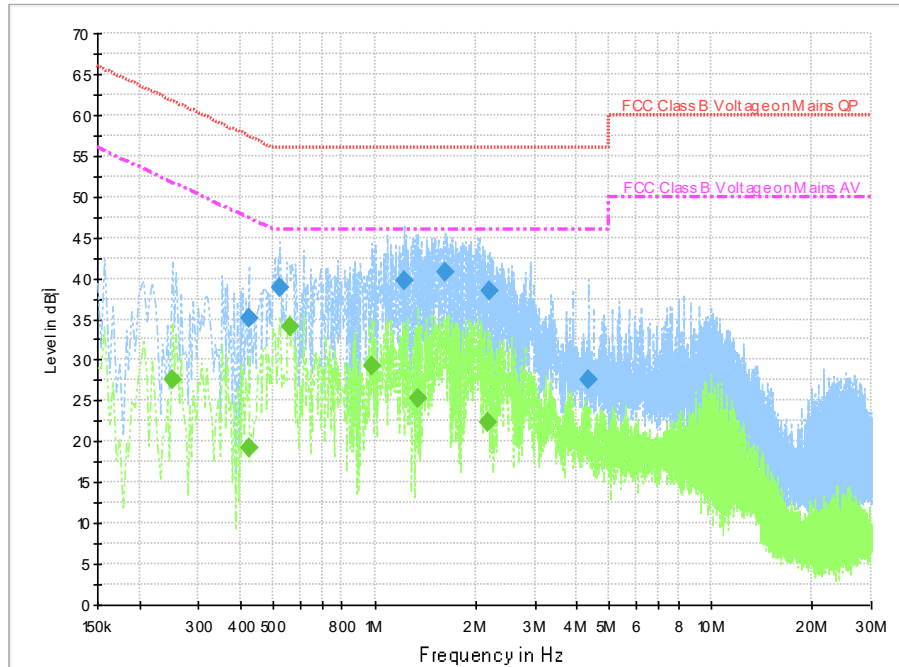


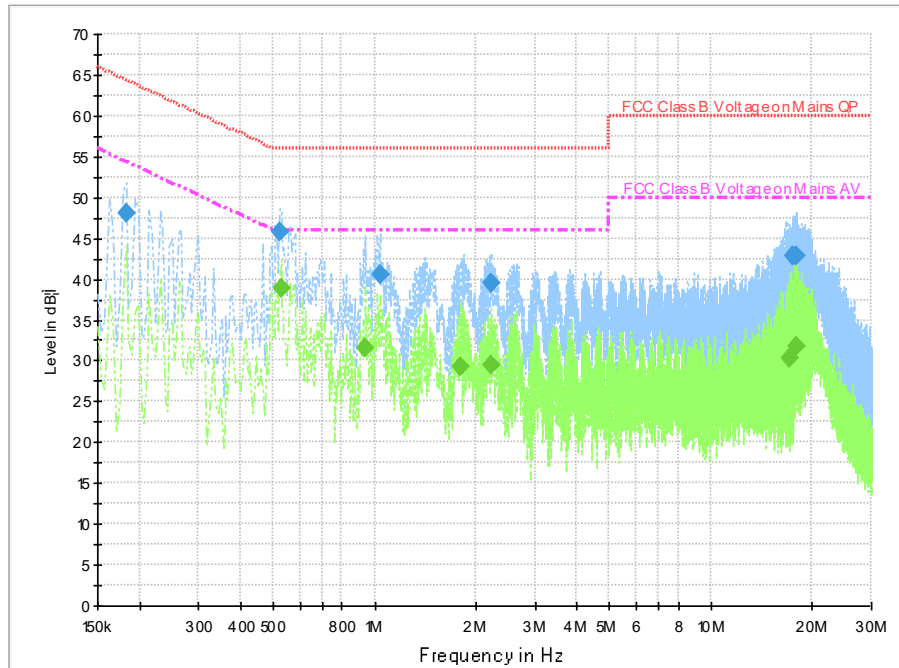
Fig A.7 Conducted Emission from 150kHz to 30MHz

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.422000	35.2	2000.0	9.000	On	N	19.7	22.3	57.4	
0.522000	38.9	2000.0	9.000	On	N	19.7	17.1	56.0	
1.226000	39.6	2000.0	9.000	On	L1	19.6	16.4	56.0	
1.618000	40.7	2000.0	9.000	On	N	19.6	15.3	56.0	
2.206000	38.5	2000.0	9.000	On	N	19.6	17.5	56.0	
4.346000	27.6	2000.0	9.000	On	N	19.6	28.4	56.0	

#### Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.250000	27.7	2000.0	9.000	On	L1	19.7	24.1	51.8	
0.422000	19.2	2000.0	9.000	On	N	19.7	28.2	47.4	
0.558000	34.1	2000.0	9.000	On	L1	19.7	11.9	46.0	
0.978000	29.3	2000.0	9.000	On	L1	19.7	16.7	46.0	
1.342000	25.3	2000.0	9.000	On	L1	19.6	20.7	46.0	
2.162000	22.4	2000.0	9.000	On	N	19.6	23.6	46.0	

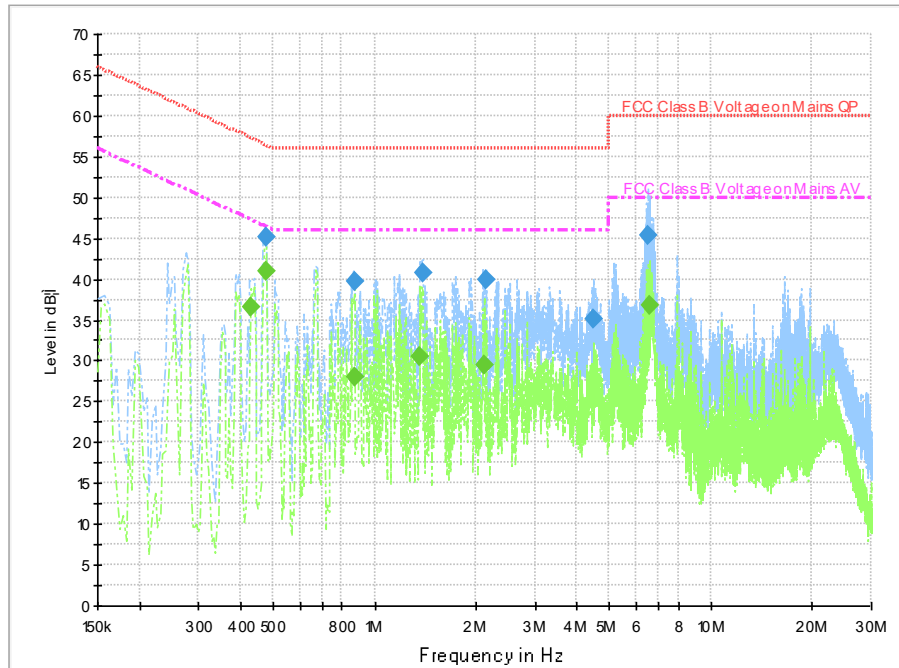
**Charging Mode, Set.2:**

**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
0.182000	48.0	2000.0	9.000	On	L1	19.7	16.4	64.4	
0.522000	45.7	2000.0	9.000	On	L1	19.7	10.3	56.0	
1.038000	40.6	2000.0	9.000	On	L1	19.7	15.4	56.0	
2.214000	39.4	2000.0	9.000	On	L1	19.6	16.6	56.0	
17.478000	42.9	2000.0	9.000	On	L1	19.7	17.1	60.0	
17.994000	42.7	2000.0	9.000	On	L1	19.7	17.3	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	38.8	2000.0	9.000	On	N	19.7	7.2	46.0	
0.938000	31.5	2000.0	9.000	On	L1	19.7	14.5	46.0	
1.798000	29.2	2000.0	9.000	On	L1	19.6	16.8	46.0	
2.214000	29.4	2000.0	9.000	On	L1	19.6	16.6	46.0	
17.186000	30.3	2000.0	9.000	On	L1	19.7	19.7	50.0	
17.994000	31.8	2000.0	9.000	On	L1	19.7	18.2	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
0.474000	45.2	5000.0	9.000	On	N	19.7	11.2	56.4	
0.870000	39.7	5000.0	9.000	On	N	19.6	16.3	56.0	
1.386000	40.8	5000.0	9.000	On	L1	19.6	15.2	56.0	
2.134000	39.8	5000.0	9.000	On	N	19.6	16.2	56.0	
4.486000	35.1	5000.0	9.000	On	N	19.6	20.9	56.0	
6.498000	45.4	5000.0	9.000	On	N	19.6	14.6	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	36.7	5000.0	9.000	On	N	19.7	10.6	47.3	
0.474000	41.0	5000.0	9.000	On	L1	19.7	5.4	46.4	
0.874000	28.0	5000.0	9.000	On	L1	19.7	18.0	46.0	
1.358000	30.5	5000.0	9.000	On	N	19.6	15.5	46.0	
2.122000	29.5	5000.0	9.000	On	L1	19.6	16.5	46.0	
6.558000	36.7	5000.0	9.000	On	N	19.6	13.3	50.0	

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