



# FCC 15B TEST REPORT

No. I22Z61676-EMC01

for

**TCL Communication Ltd.**

**GSM/UMTS/LTE mobile phone**

**Model Name: T430W**

**FCC ID: 2ACCJH167**

with

**Hardware Version: 03**

**Software Version: UGS4**

**Issued Date: 2022-10-07**

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**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z61676-EMC01	Rev.0	1 <sup>st</sup> edition	2022-10-07



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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,  
100191, P. R. China

### 1.2. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

### 1.3. Project data

Testing Start Date: 2022-08-29

Testing End Date: 2022-09-25

### 1.4. Signature



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An Hui


(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Zhang Xia

Deputy Director of the laboratory

(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  
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City: Hong Kong  
Postal Code: /  
Country: China  
Telephone: +86 755 3661 1621  
Fax: +86 755 3661 2000-81722

### **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  
City: Hong Kong  
Postal Code: /  
Country: China  
Telephone: +86 755 3661 1621  
Fax: +86 755 3661 2000-81722

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

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

Description	GSM/UMTS/LTE mobile phone
Model Name	T430W
FCC ID	2ACCJH167

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

#### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	016298000001380	03	UGS4

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

#### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>	<b>Note</b>
AE1	Battery	/	/
AE2	Battery	/	/
AE3	USB Cable	/	/
AE4	USB Cable	/	/
AE5	Charger1	/	/
AE6	Charger2	/	/

##### AE1

Model	TLi028C7
Manufacturer	NINGBO VEKEN BATTERY CO., LTD.
Capacity	min2880mAh/type 3000mAh
Nominal Voltage	3.85V

##### AE2

Model	TLi028C1
Manufacturer	Shenzhen BYD Lithium Battery Company Limited
Capacity	min2880mAh/type 3000mAh
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	/

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

**3.4. EUT set-ups**

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT1+ AE1/2+ AE3/4+AE5	/
Set.2	EUT1+ AE1/2+ AE3/4+AE6	/
Set.3	EUT1+ AE1/2+ AE3/4+Headset	/

**Note:**

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM 850MHz,WCDMA Band5, LTE Bands B5/12/26/71. The measurement results showed here are worst cases of different bands.

## **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	2020
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 × 17meters × 10meters) 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, 10 m 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 3000 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
	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	100344	R&S	2023-03-21	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	ESW44	103023	R&S	2022-10-28	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	Signal Generator	MBV100A	260613	R&S	2023-01-09	1 year
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
10	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
11	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A

### Test Software

Radiated Emission	EMC32 V10.60.20
Conducted Emission	EMC32 V8.53.0

## **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) 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 3/10 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 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.

#### **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.

$$\text{Limit}(10\text{m}) = \text{Limit}(3\text{m}) + 20[\log(3/10)]$$

#### **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/1MHz	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

$G_{\text{PL}}$ : Path Loss

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

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

Note: The measurement results showed here are worst cases of the combinations of different Battery, cables and Headset.

Note: The measurement results showed here are worst cases.

#### Measurement results for Set.1:

##### EUT1 Charger1 + Back Camera +GSM 850MHz idle Mode/QP detector

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
41.446000	10.93	30.00	19.07	175.0	V	162.0
55.802000	13.98	30.00	16.02	223.0	V	59.0
101.974000	17.41	33.52	16.11	222.0	V	-31.0
112.547000	17.06	33.52	16.46	125.0	V	206.0
282.394000	17.80	36.02	18.22	100.0	V	135.0
360.964000	16.40	36.02	19.62	125.0	V	149.0

##### EUT1 Charger1 + Back Camera +GSM 850MHz idle Mode/Average detector

Frequency (MHz)	Result (dB $\mu$ V/m)	$G_{\text{PL}}$ (dB)	$G_A$ (dB/m)	$P_{\text{Mea}}$ (dB $\mu$ V)	Polarity	Limit (dB $\mu$ V/m)	Margin (dB)
17542.020	42.2	-29.5	44.4	27.334	V	54	11.8
17550.180	41.9	-29.5	44.4	27.034	V	54	12.1
17885.080	41.9	-29.5	46.0	25.480	V	54	12.1
17636.200	41.7	-29.4	45.2	25.852	V	54	12.3
17543.720	41.7	-29.5	44.4	26.834	H	54	12.3
17624.300	41.6	-29.4	45.2	25.752	V	54	12.4

##### EUT1 Charger1 + Back Camera +GSM 850MHz idle Mode/Peak detector

Frequency (MHz)	Result (dB $\mu$ V/m)	$G_{\text{PL}}$ (dB)	$G_A$ (dB/m)	$P_{\text{Mea}}$ (dB $\mu$ V)	Polarity	Limit (dB $\mu$ V/m)	Margin (dB)
17542.700	52.6	-29.5	44.4	37.734	V	74	21.4
17630.420	52.5	-29.4	45.2	36.652	H	74	21.5
17635.860	52.4	-29.4	45.2	36.552	H	74	21.6
17661.360	52.3	-29.9	45.2	36.950	V	74	21.7
17453.960	52.3	-29.9	44.4	37.817	V	74	21.7
17650.140	52.3	-29.6	45.2	36.653	V	74	21.7

**Measurement results for Set.2:**
**EUT1 Charger2 +MP4 + WCDMA 850MHz idle Mode /QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
30.000000	24.73	30.00	5.27	100.0	V	45.0
30.776000	24.95	30.00	5.05	125.0	V	309.0
55.802000	24.25	30.00	5.75	125.0	V	-5.0
97.415000	22.39	33.52	11.13	125.0	V	-4.0
113.517000	22.19	33.52	11.33	100.0	V	189.0
254.167000	16.55	36.02	19.47	100.0	V	22.0

**EUT1 Charger2 +MP4 + WCDMA 850MHz idle Mode /Average detector**

Frequency (MHz)	Result (dB $\mu$ V/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)	Polarity	Limit (dB $\mu$ V/m)	Margin (dB)
17644.700	40.9	-29.6	45.2	25.253	V	54	13.1
17622.260	40.9	-29.4	45.2	25.052	V	54	13.1
17617.840	40.9	-29.5	45.2	25.172	V	54	13.1
17794.300	40.8	-29.9	46.0	24.732	H	54	13.2
17799.060	40.8	-29.9	46.0	24.732	V	54	13.2
17621.580	40.8	-29.4	45.2	24.952	H	54	13.2

**EUT1 Charger2 +MP4 + WCDMA 850MHz idle Mode /Peak detector**

Frequency (MHz)	Result (dB $\mu$ V/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)	Polarity	Limit (dB $\mu$ V/m)	Margin (dB)
17887.460	51.6	-29.5	46.0	35.180	V	74	22.4
17635.180	51.4	-29.4	45.2	35.552	V	74	22.6
17448.860	51.4	-29.9	44.4	36.917	V	74	22.6
17647.420	51.4	-29.6	45.2	35.753	H	74	22.6
17472.320	51.3	-30.1	44.4	37.005	H	74	22.7
17577.720	51.3	-29.8	45.2	35.846	V	74	22.7

**Measurement results for Set.3:**
**EUT1 USB + Front Camera +FM + LTE Band 5 idle Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
31.940000	18.11	30.00	11.89	283.0	V	129.0
63.950000	15.08	30.00	14.92	100.0	V	72.0
168.128000	21.35	33.52	12.17	322.0	H	266.0
216.143000	27.01	36.02	9.01	202.0	H	189.0
496.085000	27.04	36.02	8.98	275.0	V	45.0
594.831000	25.54	36.02	10.48	203.0	V	9.0

**EUT1 USB+Front Camera +FM+ LTE Band 5 idle Mode/Average detector**

Frequency (MHz)	Result (dB $\mu$ V/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)	Polarity	Limit (dB $\mu$ V/m)	Margin (dB)
6050.020	43.2	-37.8	34.4	46.617	H	54	10.8
6049.680	42.0	-37.8	34.4	45.417	V	54	12.0
17633.480	41.5	-29.4	45.2	25.652	V	54	12.5
17655.580	41.1	-29.6	45.2	25.453	V	54	12.9
17639.260	41.1	-29.4	45.2	25.252	H	54	12.9
17797.020	40.9	-29.9	46.0	24.832	H	54	13.1

**EUT1 USB+Front Camera +FM+ LTE Band 5 idle Mode/Peak detector**

Frequency (MHz)	Result (dB $\mu$ V/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)	Polarity	Limit (dB $\mu$ V/m)	Margin (dB)
17644.700	51.7	-29.6	45.2	36.053	V	74	22.3
17235.340	51.6	-29.6	43.4	37.809	H	74	22.4
17615.800	51.4	-29.5	45.2	35.672	V	74	22.6
17641.640	51.3	-29.6	45.2	35.653	V	74	22.7
17677.340	51.3	-29.9	45.2	35.950	V	74	22.7
17401.940	51.3	-29.4	44.4	36.386	H	74	22.7

EUT1 Charger1+Back Camera+GSM 850MHz idle Mode, Set.1

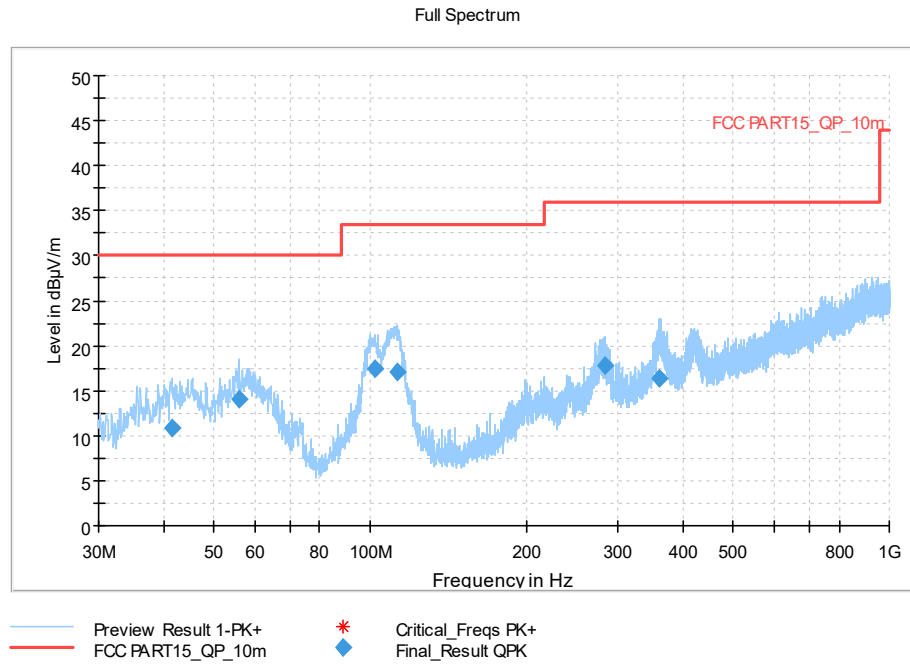


Figure A.1 Radiated Emission from 30MHz to 1GHz

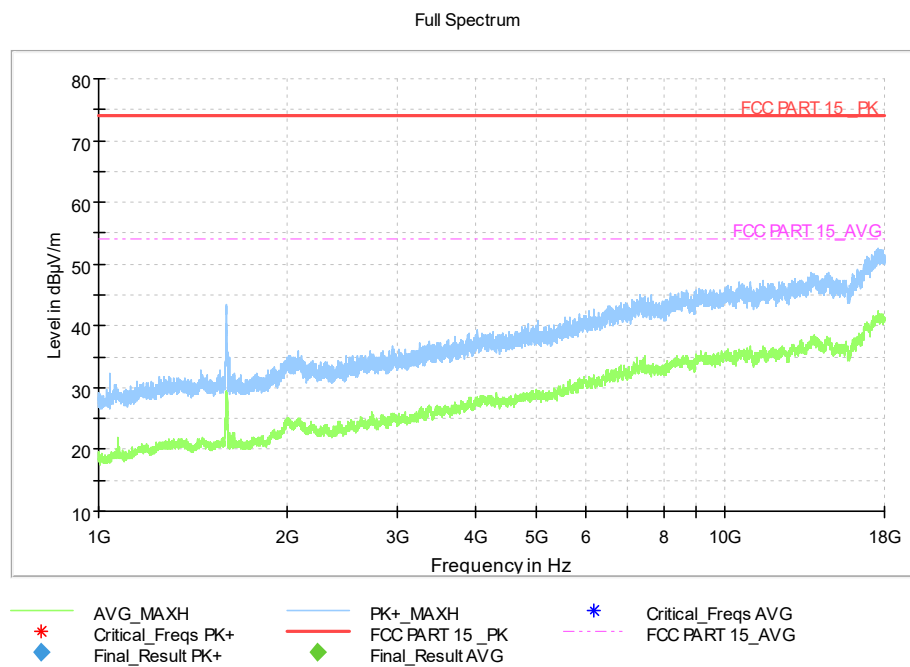
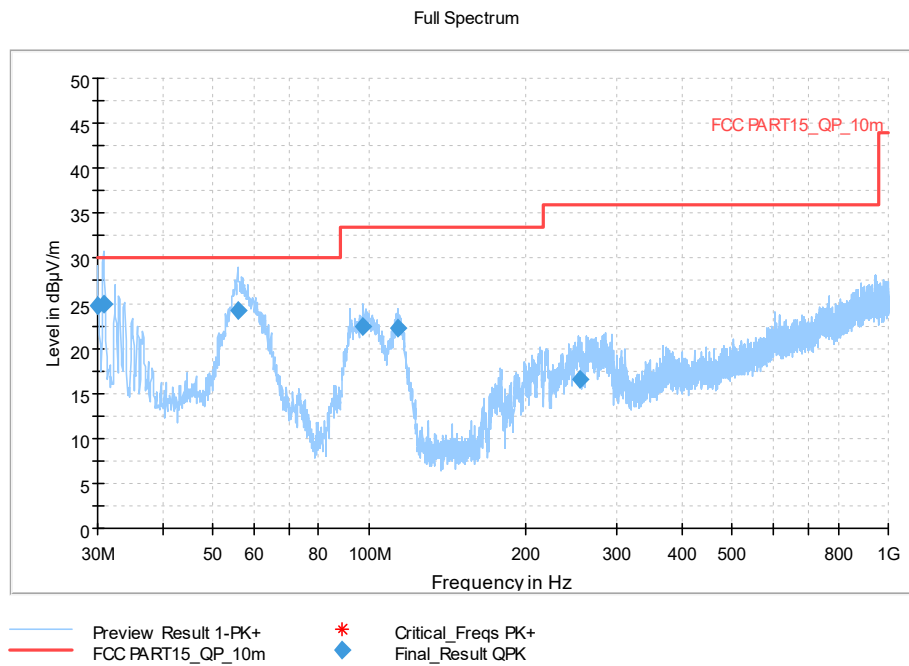


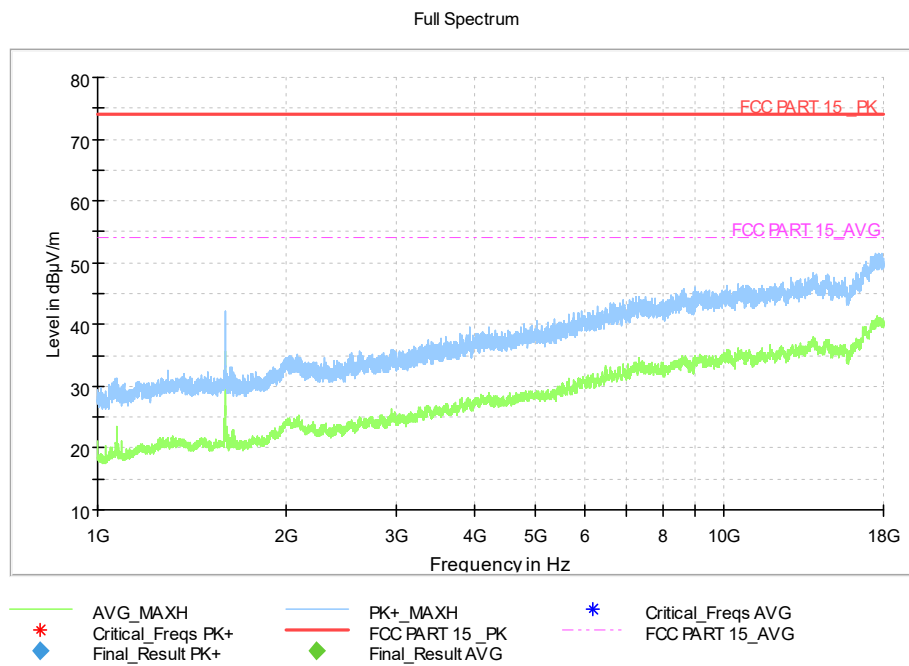
Figure A.2 Radiated Emission from 1GHz to 18GHz



**EUT1 Charger2 +MP4 + WCDMA 850MHz idle Mode, Set.2**

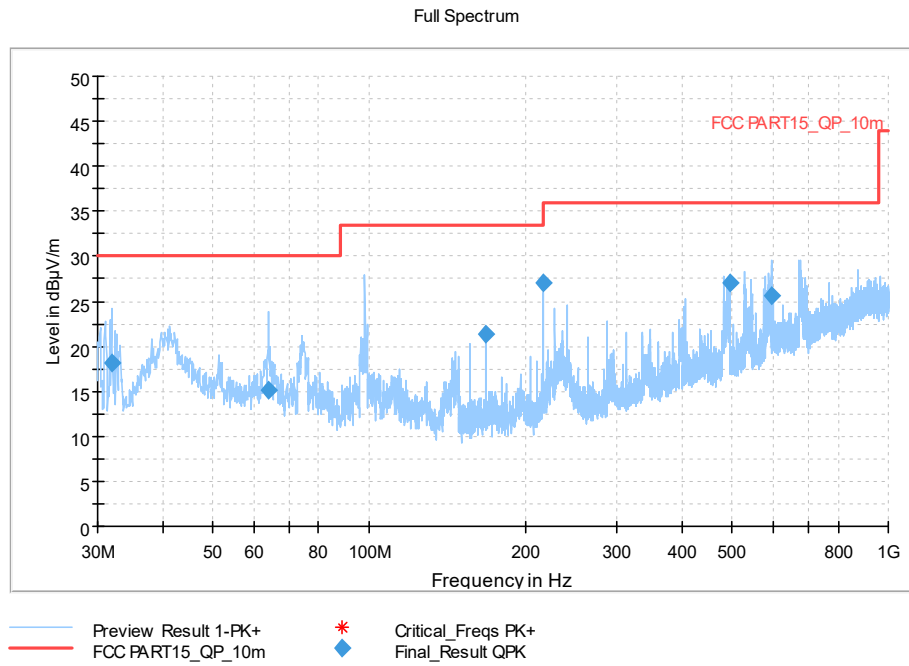


**Figure A.3 Radiated Emission from 30MHz to 1GHz**

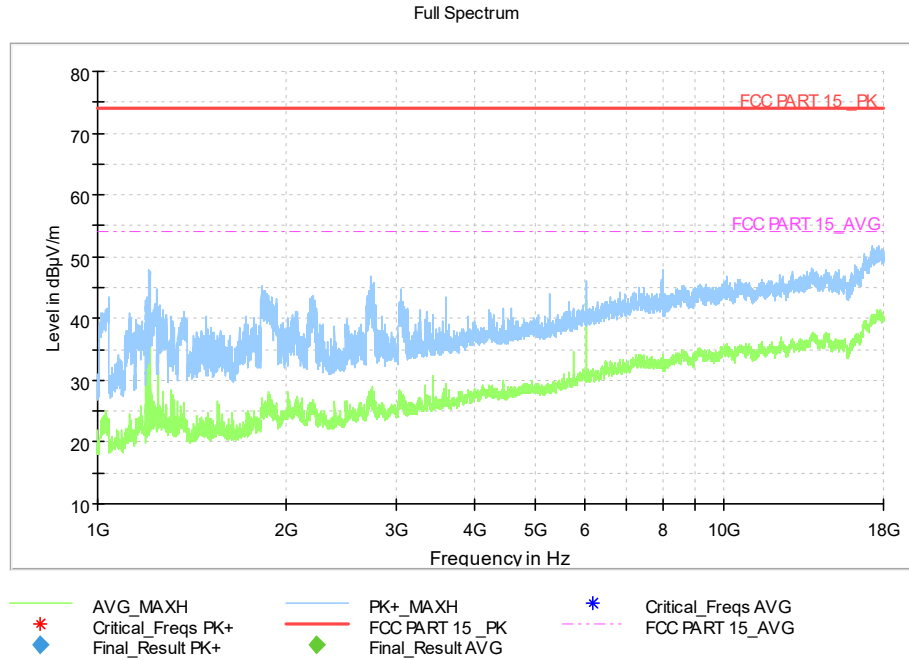


**Figure A.4 Radiated Emission from 1GHz to 18GHz**

**EUT1 USB + Front Camera +FM + LTE Band 5 idle Mode, Set.3**



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



**Figure 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 charger in the case of charging mode.

### 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:  $U=3.10\text{dB}$ ,  $k=2$ .

Note: The measurement results showed here are worst cases of the combinations of different Battery, cables and Headset.

Note: The measurement results showed here are worst cases.

#### EUT1 Charger1+Back Camera+GSM 850MHz idle Mode, Set.1

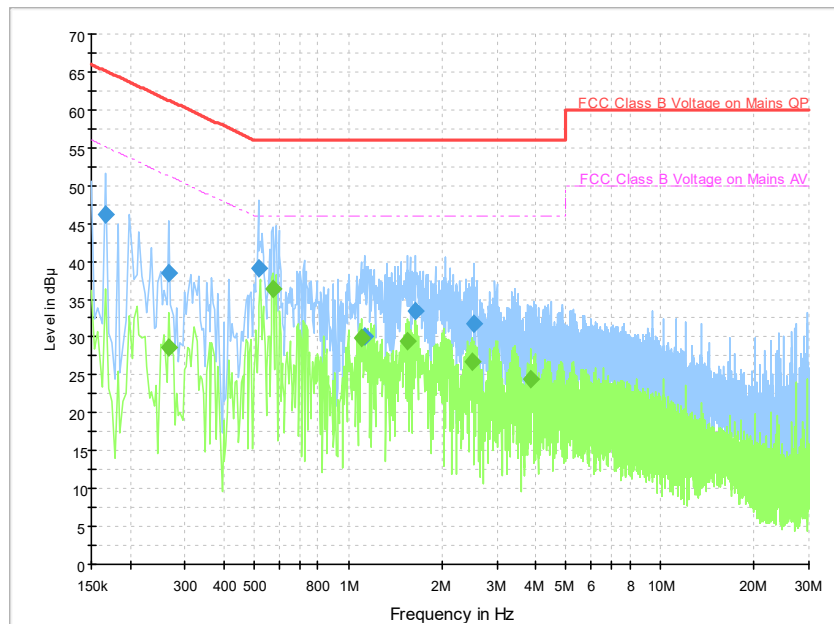


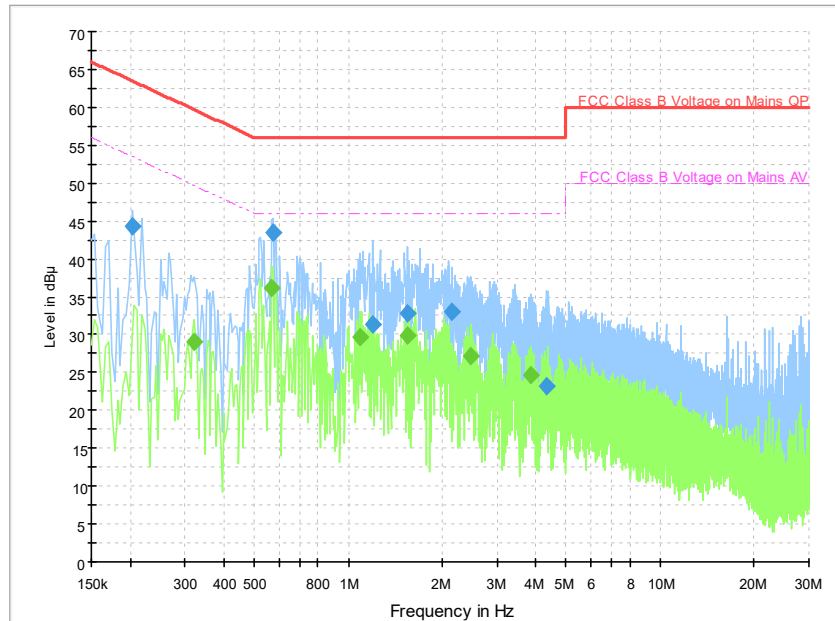
Figure A.7 Conducted Emission

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.166000	46.2	2000.0	9.000	On	N	19.7	19.0	65.2
0.266000	38.5	2000.0	9.000	On	N	19.7	22.7	61.2
0.514000	39.2	2000.0	9.000	On	L1	19.7	16.8	56.0
1.126000	30.0	2000.0	9.000	On	N	19.6	26.0	56.0
1.642000	33.5	2000.0	9.000	On	N	19.6	22.5	56.0
2.522000	31.8	2000.0	9.000	On	N	19.6	24.2	56.0

#### Final Result 2

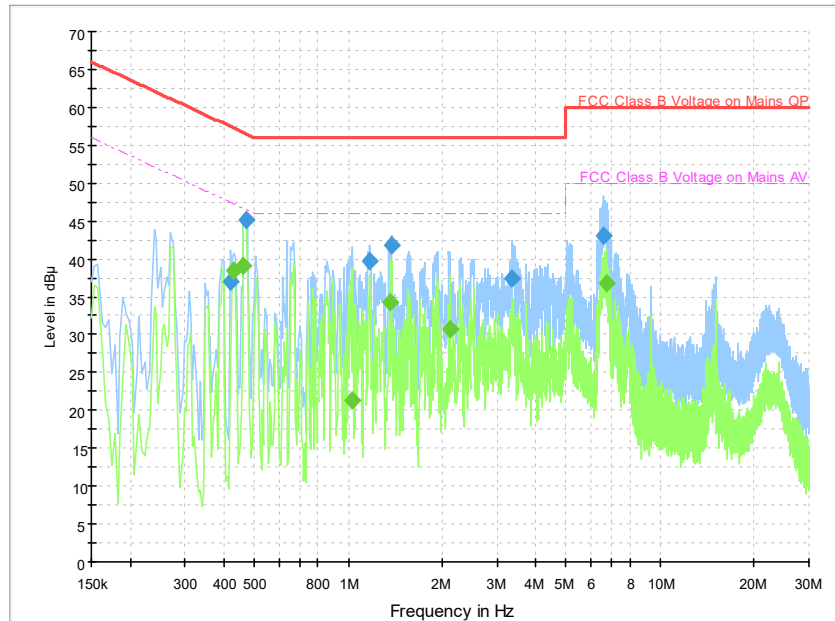
Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.266000	28.6	2000.0	9.000	On	L1	19.7	22.6	51.2
0.574000	36.4	2000.0	9.000	On	L1	19.7	9.6	46.0
1.102000	30.0	2000.0	9.000	On	L1	19.6	16.0	46.0
1.554000	29.4	2000.0	9.000	On	L1	19.6	16.6	46.0
2.498000	26.7	2000.0	9.000	On	L1	19.6	19.3	46.0
3.862000	24.4	2000.0	9.000	On	L1	19.6	21.6	46.0

**EUT1 Charger2 +MP4 + WCDMA 850MHz idle Mode, Set.2**

**Figure A.8 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.202000	44.3	2000.0	9.000	On	L1	19.7	19.3	63.5
0.574000	43.4	2000.0	9.000	On	L1	19.7	12.6	56.0
1.198000	31.3	2000.0	9.000	On	N	19.6	24.7	56.0
1.546000	32.8	2000.0	9.000	On	N	19.6	23.2	56.0
2.146000	32.9	2000.0	9.000	On	N	19.6	23.1	56.0
4.330000	23.2	2000.0	9.000	On	N	19.6	32.8	56.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.322000	29.0	2000.0	9.000	On	L1	19.7	20.6	49.7
0.570000	36.1	2000.0	9.000	On	L1	19.7	9.9	46.0
1.086000	29.8	2000.0	9.000	On	L1	19.7	16.2	46.0
1.550000	29.8	2000.0	9.000	On	L1	19.6	16.2	46.0
2.470000	27.2	2000.0	9.000	On	L1	19.6	18.8	46.0
3.846000	24.7	2000.0	9.000	On	L1	19.6	21.3	46.0

**EUT1 USB + Front Camera +FM + LTE Band 5 idle Mode, Set.3**

**Figure A.9 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.418000	36.9	2000.0	9.000	On	L1	19.7	20.6	57.5
0.470000	45.1	2000.0	9.000	On	L1	19.7	11.4	56.5
1.170000	39.7	2000.0	9.000	On	L1	19.7	16.3	56.0
1.378000	41.7	2000.0	9.000	On	L1	19.6	14.3	56.0
3.338000	37.3	2000.0	9.000	On	L1	19.6	18.7	56.0
6.546000	43.1	2000.0	9.000	On	N	19.6	16.9	60.0

**Final Result 2**

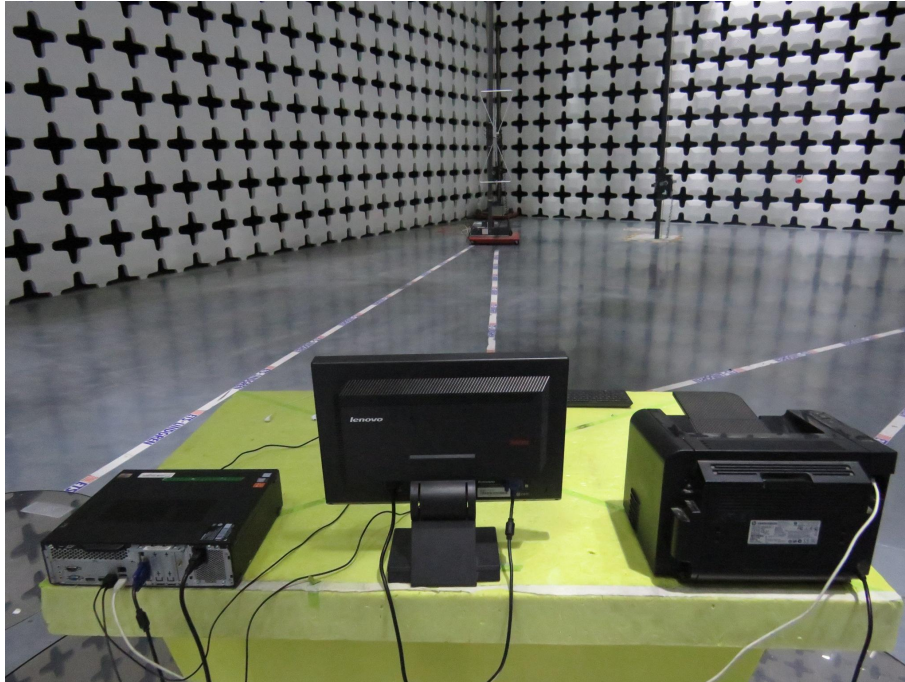
Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.430000	38.4	2000.0	9.000	On	L1	19.7	8.9	47.3
0.462000	39.1	2000.0	9.000	On	L1	19.7	7.5	46.7
1.034000	21.2	2000.0	9.000	On	L1	19.7	24.8	46.0
1.358000	34.3	2000.0	9.000	On	L1	19.6	11.7	46.0
2.122000	30.7	2000.0	9.000	On	L1	19.6	15.3	46.0
6.698000	36.8	2000.0	9.000	On	L1	19.6	13.2	50.0



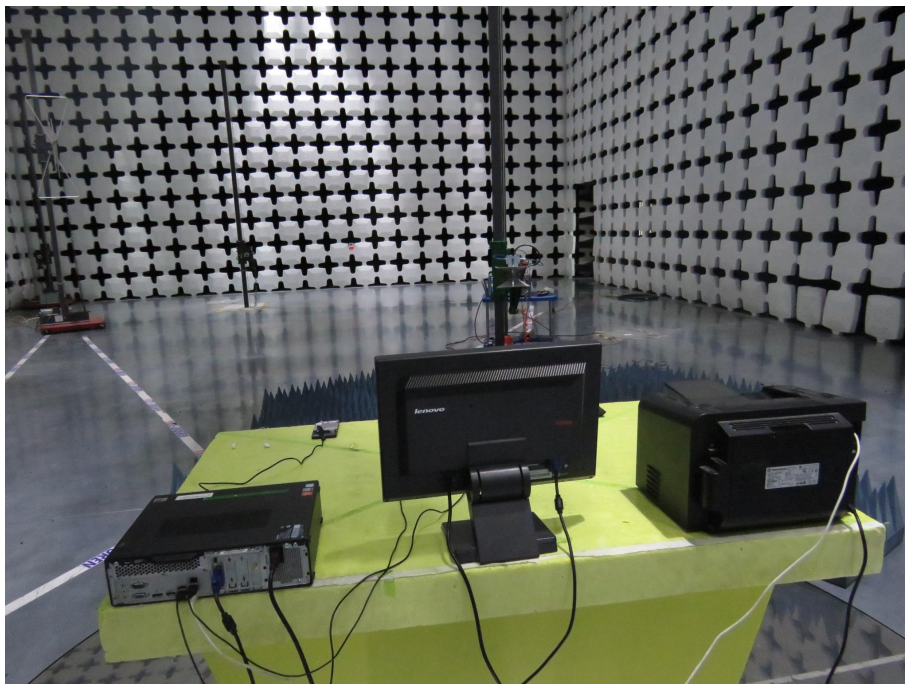
**ANNEX B: Persons involved in this testing**

Test Item	Tester
Conducted Continuous Emission	Zhang Tianli
Radiated Continuous Emission	Ding Zai, Li Pengfei

## ANNEX C: TEST LAYOUT



**Radiated Continuous Emission(30MHz-1GHz)**



**Radiated Continuous Emission((1GHz-18GHz)**





**Conducted Continuous Emission**

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