



# TEST REPORT

No.I21N02088-EMC

for

TCL Communication Ltd.

**MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES**

**Model Name: TW18**

**With**

**Hardware Version: TW18\_V1.1, TW18\_V1.0**

**Software Version: TW18\_buds\_1.0.0.5**

**FCC ID: 2ACCJB162**

**Issued Date: 2021-08-03**

**Designation Number: CN1210**

**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 SAICT.

**Test Laboratory:**

**SAICT, Shenzhen Academy of Information and Communications Technology**

Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen,  
Guangdong, P. R. China 518000.

Tel:+86(0)755-33322000, Fax:+86(0)755-33322001

Email: yewu@saict.ac.cn. www.saict.ac.cn



No.I21N02088-EMC

## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I21N02088-EMC	Rev.0	1st edition	2021-08-03

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

## **CONTENTS**

<b>1. SUMMARY OF TEST REPORT .....</b>	<b>4</b>
<b>1.1. TEST ITEMS.....</b>	<b>4</b>
<b>1.2. TEST STANDARDS .....</b>	<b>4</b>
<b>1.3. TEST RESULT .....</b>	<b>4</b>
<b>1.4. TESTING LOCATION .....</b>	<b>4</b>
<b>1.5. PROJECT DATA .....</b>	<b>4</b>
<b>1.6. SIGNATURE .....</b>	<b>4</b>
<b>2. CLIENT INFORMATION .....</b>	<b>5</b>
<b>2.1. APPLICANT INFORMATION.....</b>	<b>5</b>
<b>2.2. MANUFACTURER INFORMATION .....</b>	<b>5</b>
<b>3. EQUIPMENT UNDERTEST (EUT) AND ANCILLARY EQUIPMENT (AE) .....</b>	<b>6</b>
<b>3.1. ABOUT EUT .....</b>	<b>6</b>
<b>3.2. INTERNAL IDENTIFICATION OF EUT .....</b>	<b>6</b>
<b>3.3. INTERNAL IDENTIFICATION OF AE .....</b>	<b>6</b>
<b>3.4. EUT SET-UPS .....</b>	<b>8</b>
<b>3.5. GENERAL DESCRIPTION .....</b>	<b>9</b>
<b>4. REFERENCE DOCUMENTS.....</b>	<b>10</b>
<b>4.1. REFERENCE DOCUMENTS FOR TESTING.....</b>	<b>10</b>
<b>5. LABORATORY ENVIRONMENT.....</b>	<b>11</b>
<b>6. SUMMARY OF TEST RESULTS.....</b>	<b>12</b>
<b>6.1. TESTING ENVIRONMENT .....</b>	<b>12</b>
<b>6.2. SUMMARY OF MEASUREMENT RESULTS.....</b>	<b>12</b>
<b>6.3. STATEMENT .....</b>	<b>12</b>
<b>7. MEASUREMENT UNCERTAINTY .....</b>	<b>13</b>
<b>8. TEST FACILITIES UTILIZED .....</b>	<b>13</b>
<b>ANNEX A: MEASUREMENT RESULTS .....</b>	<b>14</b>
<b>A.1 RADIATED EMISSION (§15.109(A)) .....</b>	<b>14</b>
<b>A.2 CONDUCTED EMISSION (§15.107(A)) .....</b>	<b>23</b>



## 1. Summary of Test Report

### 1.1. Test Items

Description	MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES
Model Name	TW18
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

### 1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014

### 1.3. Test Result

**Pass**

Total test 2 items, pass 2 items. Please refer to "6.2 Summary of Measurement Results"

### 1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

### 1.5. Project data

Testing Start Date: 2021-07-08

Testing End Date: 2021-07-30

### 1.6. Signature

Liang yong

(Prepared this test report)

Zhang Yunzhuan

(Reviewed this test report)

Cao Junfei

(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  
E-mail: zhizhou.gong@tcl.com  
Tel: 0086-755-36611722  
Fax: 0086-755-36612000-81722

### **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  
E-mail: zhizhou.gong@tcl.com  
Tel: 0086-755-36611722  
Fax: 0086-755-36612000-81722

### 3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

Description	MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES
Model Name	TW18
FCC ID	2ACCJB162
Antenna Type	Internal Antenna
Condition of EUT as received	No obvious damage in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

#### 3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT02aa	/	Earphones HW Version: TW18_V1.1 Charging Box HW Version: TW18_V1.0	TW18_buds _1.0.0.5	2021-07-08

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

#### 3.3. Internal Identification of AE

AE ID*	Description
AE1	Charging Box
AE2	Charger
AE3	USB Cable
AE4-1	The battery of Charging Box
AE4-2	The battery of headset
AE5	Mobile Phone
AE1	
Model	TW18
Manufacturer	TCL Communication Ltd.
AE2	
Model	A152A-090200U-CN1
Manufacturer	Dongguan Aohai Technology Co.,Ltd.
AE3-1	
Model	20.27.007100
Manufacturer	LIANCHUANG
AE3-2	
Model	CDA0000128C2
Manufacturer	SHENGHUA
AE3-3	
Model	20.27.007400



Manufacturer	LIANCHUANG
AE4-1	
Model	ZWD772040V
Manufacturer	ZHONGSHAN ZHONGWANGDE NEW ENERGY. TECHNOLOGY Co., LTD.
Capacity	760mAh
Nominal	3.8V
AE4-2	
Model	YJ541011
Manufacturer	YJ POWER GROUP LIMITED
Capacity	45mAh
Nominal	3.7V
AE5	
Model	MATE30 PRO
Manufacturer	Huawei

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

AE: ancillary equipment.

\* AE3: The USB Cable of model 20.27.007100 (AE3-1) and 20.27.007400 (AE3-3) are the same except the the colour.

AE2/AE3-2/AE5: Just for test.

.



### 3.4. EUT set-ups

#### EUT set-up No.

Set.1

Set.2

#### Combination of EUT and AE

EUT+AE1+AE2+AE3-1+AE4-1+AE4-2

EUT+AE4-2+AE5



### **3.5. General Description**

The Equipment Under Test (EUT) is a model of MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES with internal antenna weared on the left ear.

It has Bluetooth functions.

It consists of normal options: Charging Box、 USB Cable and battery.

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the Client.

## 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	10-1-2019 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber** did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

**Shield 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-10000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω

**Fully-anechoic chamber** did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

## **6. SUMMARY OF TEST RESULTS**

### **6.1. Testing Environment**

Normal Temperature: 15~35℃  
Relative Humidity: 20~75%  
Atmospheric pressure 86~106kPa

### **6.2. Summary of Measurement Results**

Abbreviations used in this clause:	
P	Pass
NA	Not applicable
F	Fail

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

### **6.3. Statement**

#### **6.3.1 Statements of conformity**

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

## 7. Measurement uncertainty

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.84dB(k=2)
	1GHz-18GHz	4.68dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

## 8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. PERIOD
1.	Test Receiver	ESR7	101676	R&S	2021.12.25	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2022.01.13	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2022.05.27	3 years
5.	LISN	ENV216	102067	R&S	2022.07.15	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/

Note: CAL.: Calibration

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 Radiated Emission (§15.109(a))**

#### **Reference**

FCC: CFR Part 15.109(a)

#### **A.1.1 Method of measurement**

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance 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 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:**

**Charging Mode:** Put EUT into the charging box and connecting with Charger, enter the charging state.

**Normal Working:** EUT is powered on. Turn on the Bluetooth function of the mobile phone; establish a communication connection with the EUT, and mobile phone playing songs through EUT.

This device does not contains the receivers that tune and operate between 30MHz-960MHz.

All equipment is placed on the test tabletop 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**

Limit from CFR Part 15.109(a)

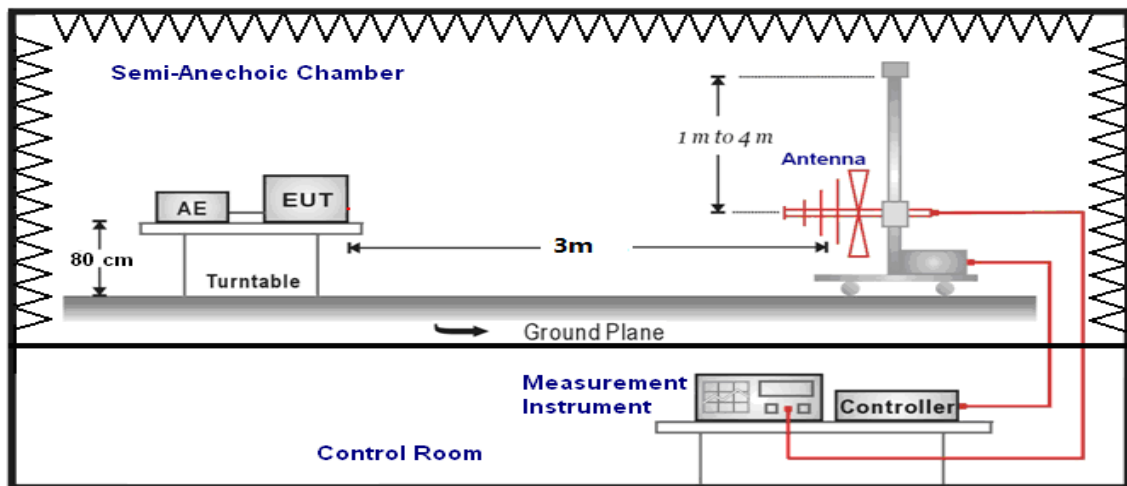
Frequency range (MHz)	Field strength limit (μV/m)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

\*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

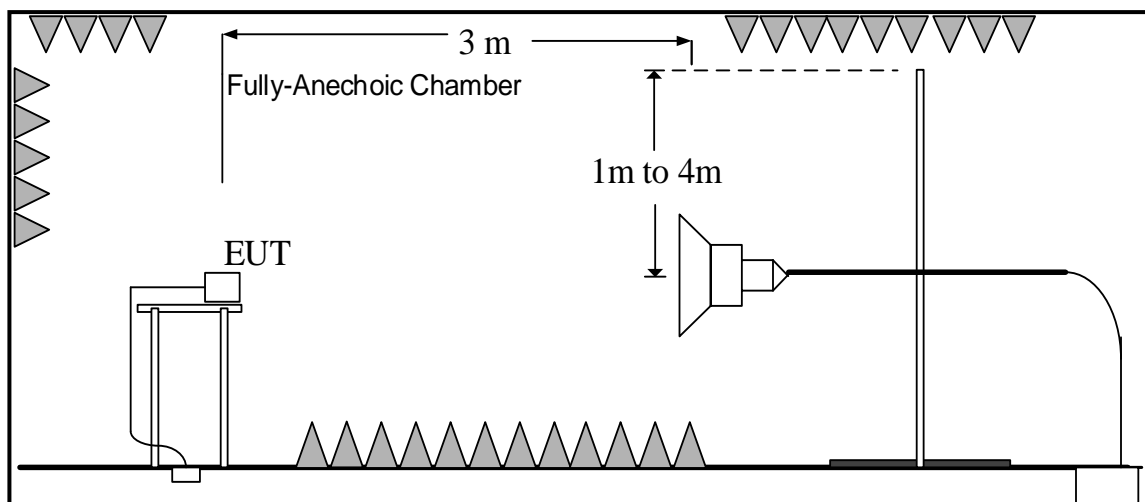
#### **A.1.4 Test Condition**

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

### A.1.5 Test set-up: 30MHz-1GHz



### 1GHz-18GHz



### A.1.6 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.

Result: Quasi-Peak(dBμV/m) / Average(dBμV/m)/Peak(dBμV/m)

Note: the result contains vertical part and Horizontal part

### Charging Mode

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT02aa/Set.1	Conclusion
30-88	40.00	See A.1 Fig.1.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

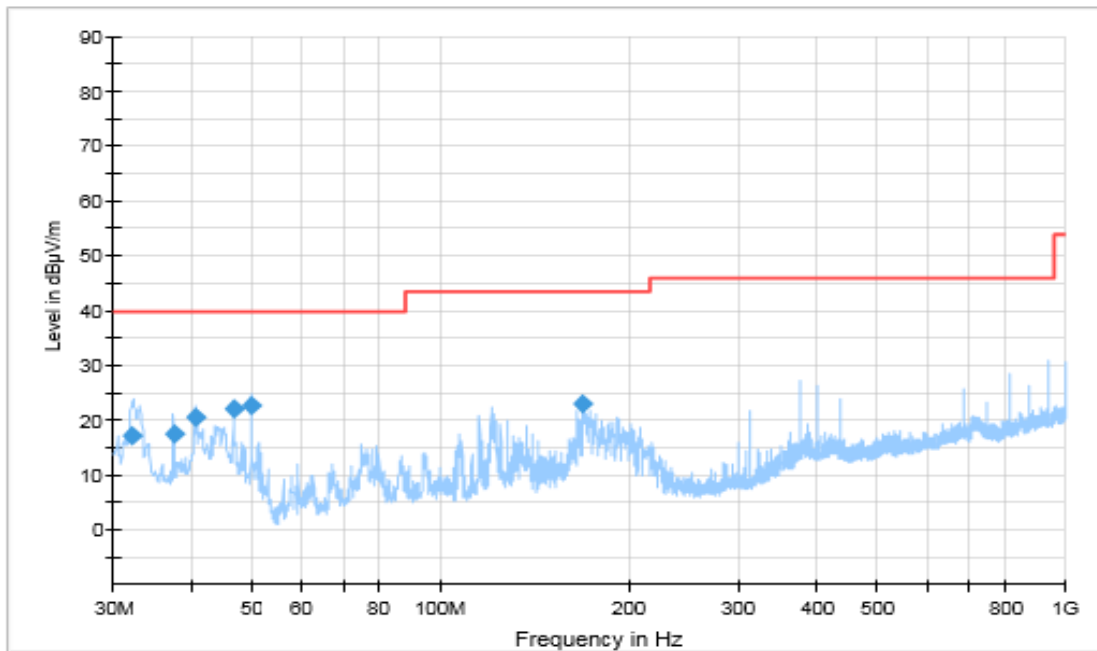
Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT02aa/Set.1	Conclusion
			UT02aa/Set.1	
1000 to 3000	54.00	74.00	See A.1 Fig.2.	P
3000 to 18000	54.00	74.00	See A.1 Fig.3.	P

### Normal Working

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT02aa/Set.1	Conclusion
30-88	40.00	See A.1 Fig.4.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT02aa/Set.1	Conclusion
			UT02aa/Set.1	
1000 to 3000	54.00	74.00	See A.1 Fig.5.	P
3000 to 18000	54.00	74.00	See A.1 Fig.6.	P

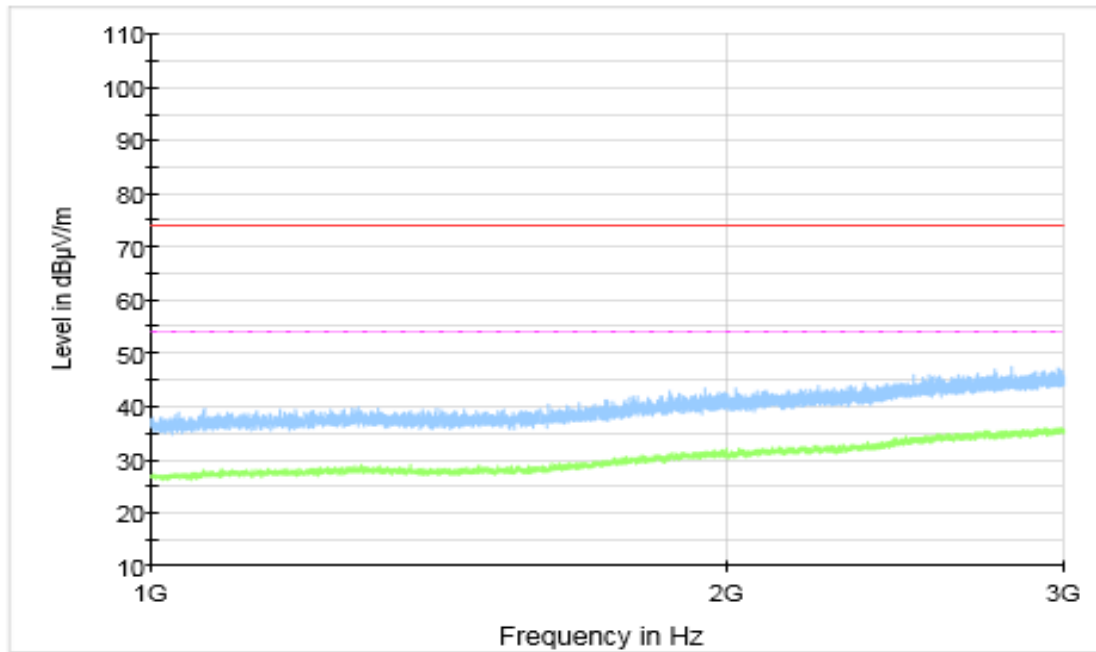




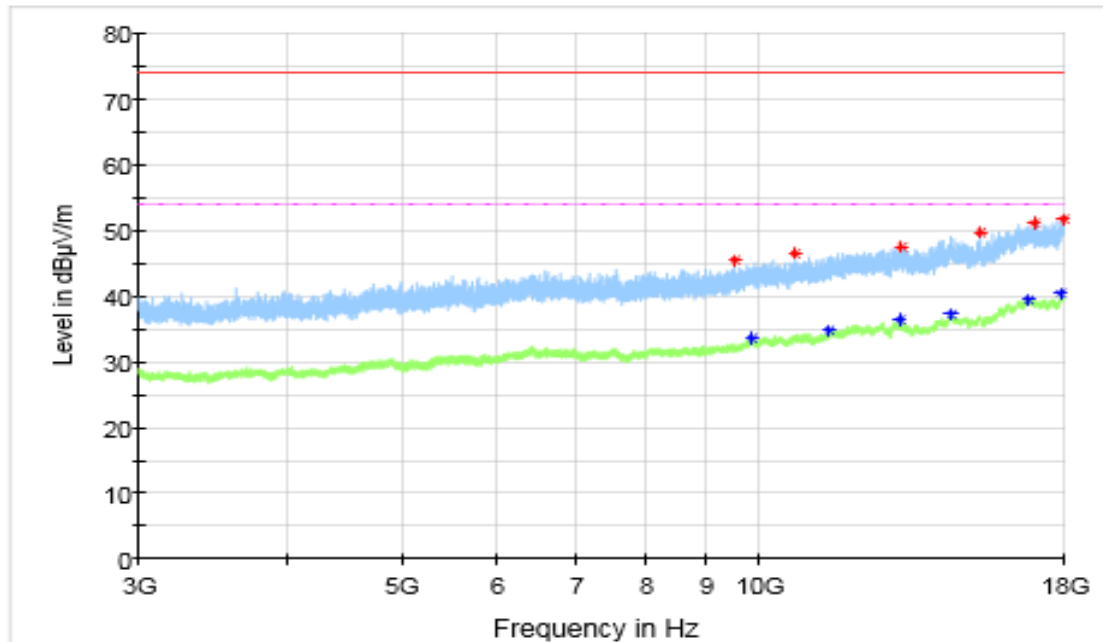
**Fig.1. Radiated Emission (Charging Mode, 30MHz to 1GHz)**

#### Final\_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
32.311111	17.26	40.00	22.74	V	-31.8	49.06
37.510556	17.51	40.00	22.49	V	-36.5	54.01
40.636111	20.53	40.00	19.47	V	-31.5	52.03
46.873333	22.23	40.00	17.77	V	-33.8	56.03
49.998889	22.79	40.00	17.21	V	-19.7	42.49
168.770000	23.01	43.50	20.49	V	-18.5	41.51



**Fig.2. Radiated Emission (Charging Mode, 1GHz to 3GHz)**



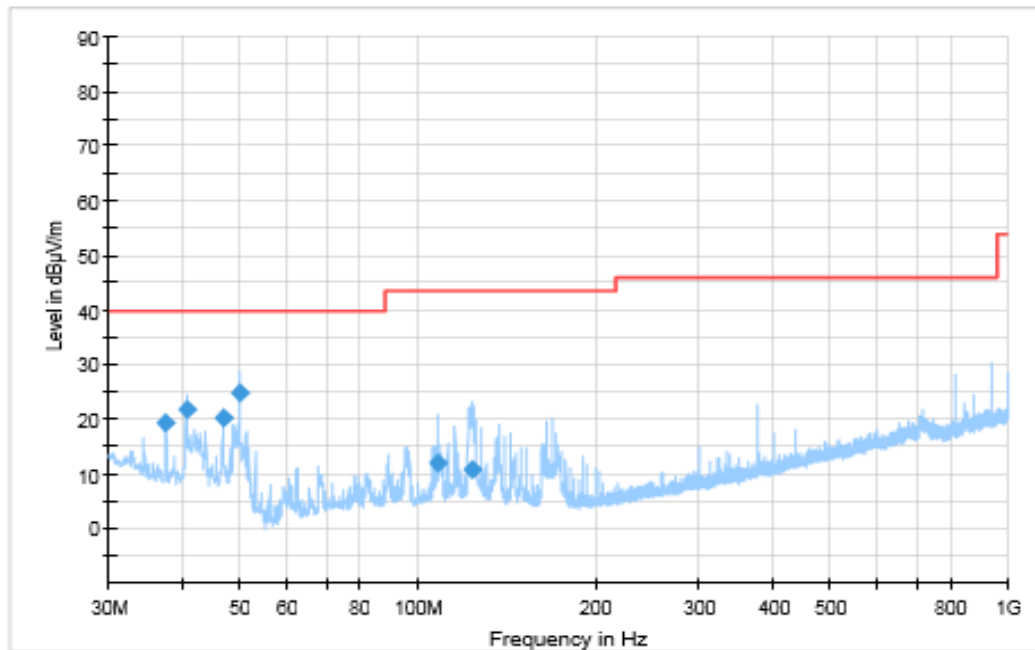
**Fig.3. Radiated Emission (Charging Mode, 3GHz to 18GHz)**

#### Final\_Results\_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBμV)
9516.500000	45.44	74.00	28.56	H	4.1	41.34
10683.000000	46.46	74.00	27.54	V	5.7	40.76
13149.500000	47.58	74.00	26.42	V	9.7	37.88
15302.000000	49.86	74.00	24.14	V	12.2	37.66
17003.500000	51.25	74.00	22.75	V	15.7	35.55
17993.500000	51.80	74.00	22.20	H	16.9	34.9

#### Final\_Results\_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBμV)
9846.000000	33.57	54.00	20.43	H	5.2	28.37
11434.000000	34.79	54.00	19.21	H	6.8	27.99
13097.500000	36.47	54.00	17.53	V	9.8	26.67
14465.500000	37.34	54.00	16.66	H	11.7	25.64
16784.000000	39.48	54.00	14.52	H	15.9	23.58
17911.500000	40.58	54.00	13.42	V	17.3	23.28



**Fig.4. Radiated Emission (Normal Working, 30MHz to 1GHz)**

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBμV)
37.496667	19.30	40.00	20.70	V	-28.0	47.30
40.622222	21.95	40.00	18.05	V	-29.5	51.45
46.873333	20.27	40.00	19.73	V	-34.3	54.57
49.998889	24.81	40.00	15.19	V	-36.5	61.31
108.105000	12.14	43.50	31.36	V	-32.3	44.44
123.677222	10.93	43.50	32.57	V	-31.5	42.43

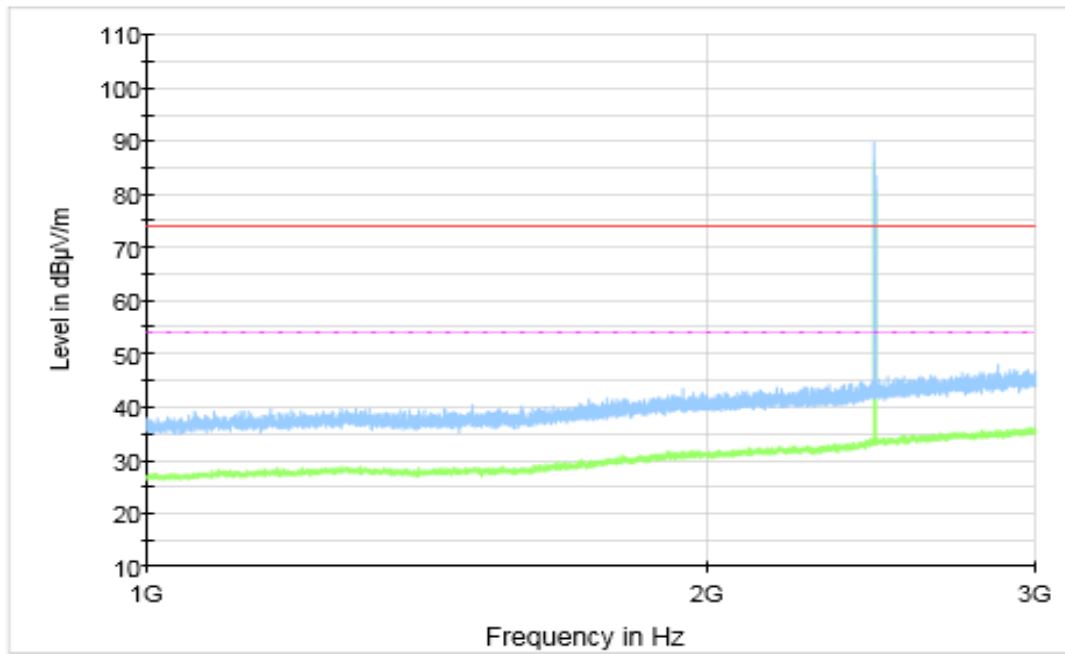
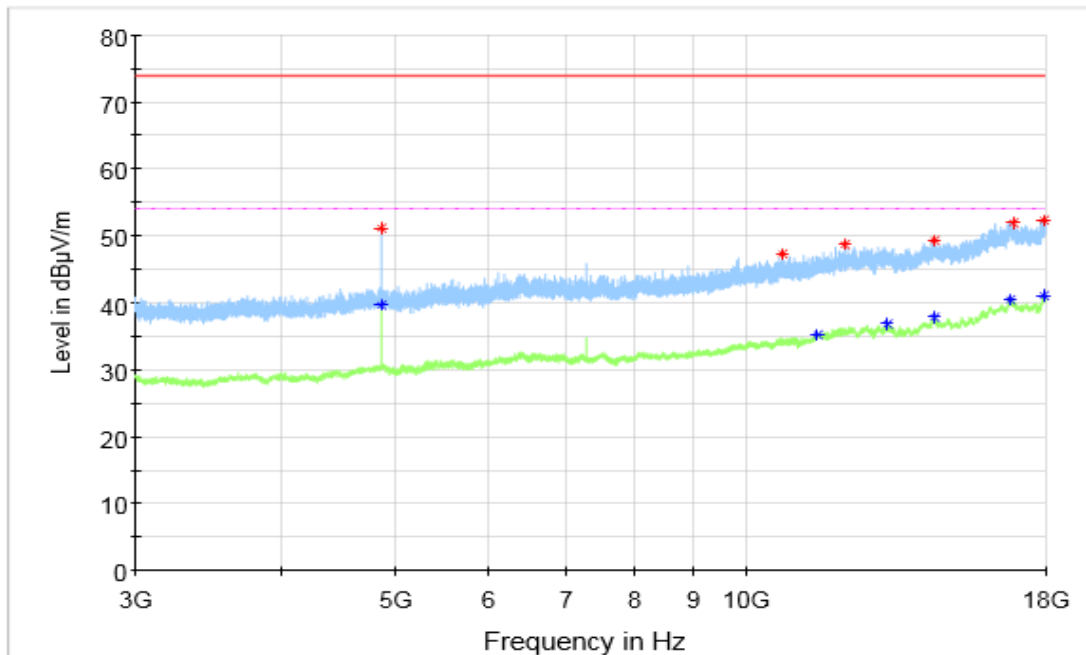


Fig.5. Radiated Emission (Normal Workingz, 1GHz to 3GHz)



**Fig.6. Radiated Emission ( Normal Working, 3GHz to 18GHz)**

#### Final\_Results\_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBμV)
4865.000000	51.13	74.00	22.87	H	0.0	51.13
10734.000000	47.39	74.00	26.61	V	6.4	40.99
12142.500000	48.85	74.00	25.15	V	8.2	40.65
14485.500000	49.36	74.00	24.64	V	11.7	37.66
16885.500000	52.08	74.00	21.92	V	16.1	35.98
17949.000000	52.43	74.00	21.57	V	17.2	35.23

#### Final\_Results\_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBμV)
4865.000000	39.76	54.00	14.24	H	0.0	39.76
11484.000000	35.25	54.00	18.75	H	6.8	28.45
13190.000000	36.82	54.00	17.18	H	9.8	27.02
14461.500000	37.84	54.00	16.16	H	11.8	26.04
16805.500000	40.40	54.00	13.60	H	15.8	24.6
17942.500000	41.17	54.00	12.83	H	17.2	23.97

**A.2 Conducted Emission (§15.107(a))****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 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

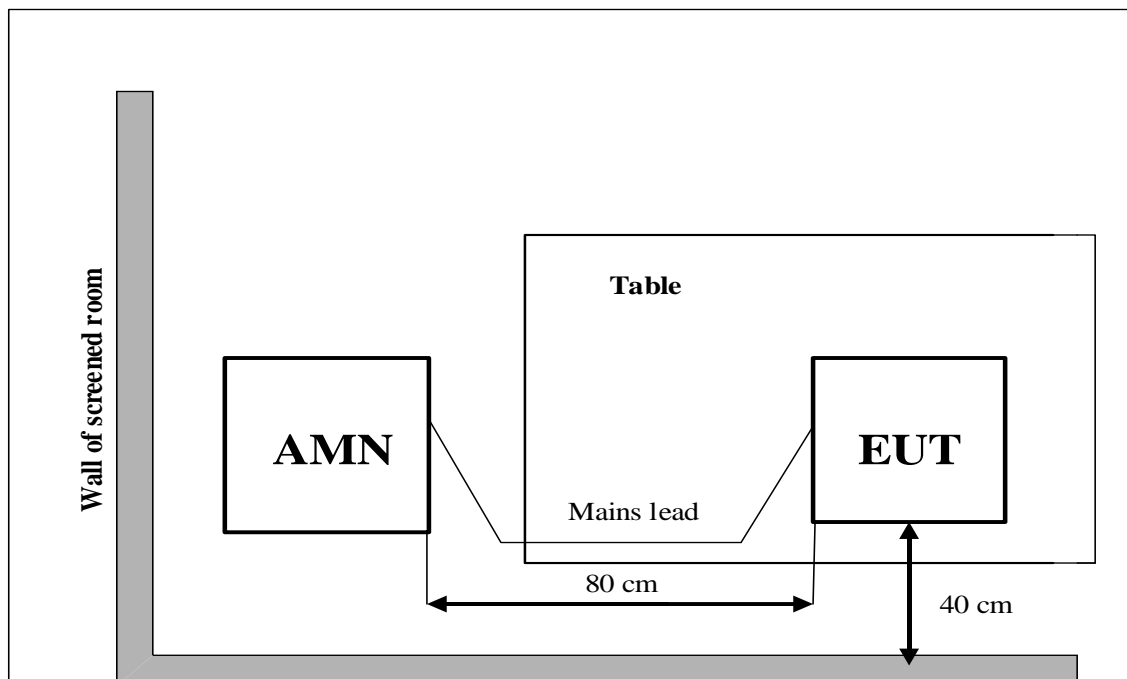
**A.2.2 EUT Operating Mode:**

**Charging Mode:** Put EUT into the charging box and connecting with Charger, enter the charging state.

**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 set-up:



#### A.2.5 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

#### A.2.6 Measurement Results

QuasiPeak(dBμV) /Average(dBμV) =PMea+Corr

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Charging Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT02aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See A.2 Fig.1.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				



Charging Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT02aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See A.2 Fig.2.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

AC Input Port/ Voltage: 120V/60Hz

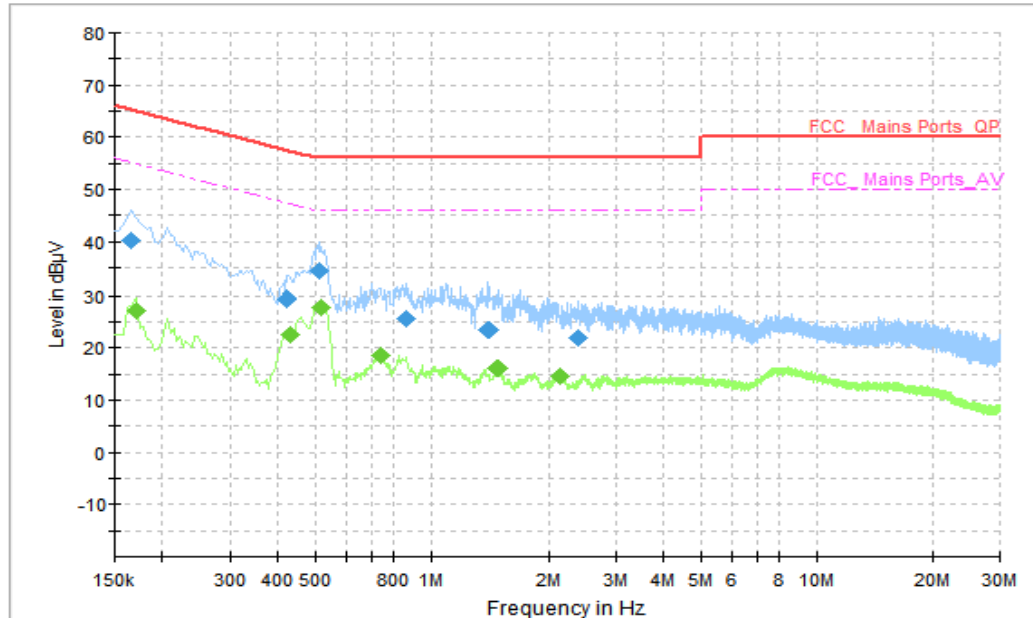


Fig.1. Conducted Emission(Charging Mode)

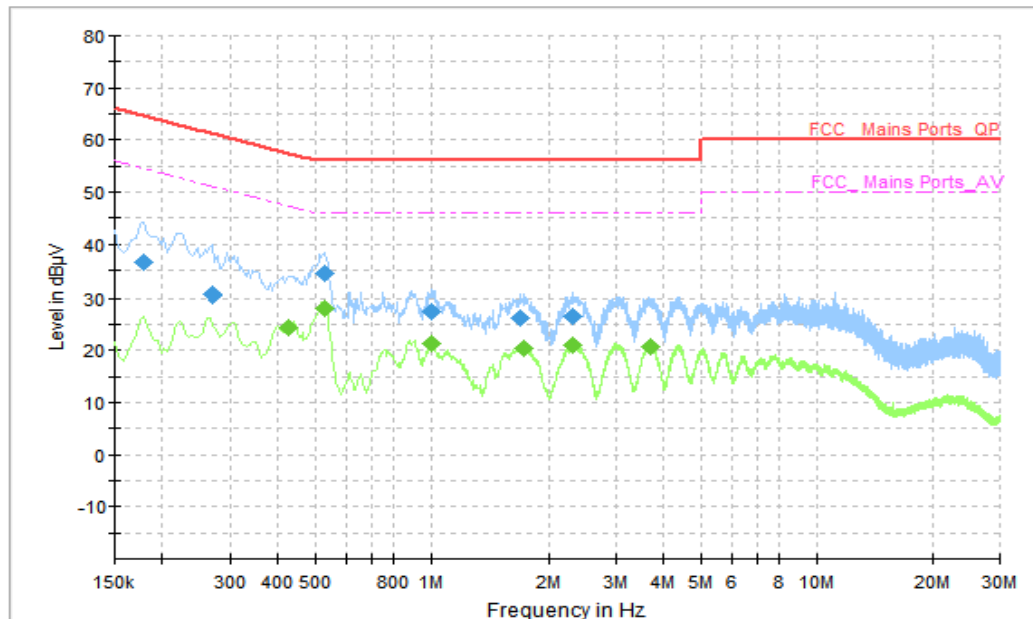
#### Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.166000	40.27	65.16	24.89	N	10	30.27
0.422000	29.26	57.41	28.15	N	10	19.26
0.514000	34.42	56.00	21.58	N	10	24.42
0.866000	25.56	56.00	30.44	L1	10	15.56
1.410000	23.53	56.00	32.47	L1	10	13.53
2.382000	21.80	56.00	34.20	L1	10	11.80

#### Final\_Result\_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.170000	26.99	54.96	27.97	N	10	16.99
0.430000	22.40	47.25	24.85	N	10	12.40
0.518000	27.62	46.00	18.38	N	10	17.62
0.742000	18.57	46.00	27.43	N	10	8.57
1.482000	16.08	46.00	29.92	N	10	6.08
2.154000	14.62	46.00	31.38	N	10	4.62

AC Input Port/ Voltage: 240V/60Hz



**Fig.2. Conducted Emission( Charging Mode )**

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.178000	36.48	64.58	28.09	N	10	26.48
0.270000	30.31	61.12	30.80	N	10	20.31
0.526000	34.31	56.00	21.69	N	10	24.31
1.002000	27.45	56.00	28.55	N	10	17.45
1.694000	26.03	56.00	29.97	N	10	16.03
2.322000	26.50	56.00	29.50	N	10	16.50

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.426000	24.29	47.33	23.04	N	10	14.29
0.526000	27.97	46.00	18.03	N	10	17.97
1.002000	21.23	46.00	24.77	N	10	11.23
1.718000	20.30	46.00	25.70	N	10	10.30
2.326000	20.88	46.00	25.12	N	10	10.88
3.686000	20.78	46.00	25.22	N	10	10.78

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