



# TEST REPORT

## No.I23N01610-EMC

for

**TCL Communication Ltd.**

**LINKHUB**

**Model Name: HH40L2**

**With**

**Hardware Version: TZ7.823.397**

**Software Version: HH40L2.1.01**

**FCC ID:2ACCJB202**

**Issued Date: 2023-10-15**

**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.

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I23N01610-EMC	Rev.0	1st edition	2023-10-15

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

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## **1. SUMMARY OF TEST REPORT**

### **1.1. Test Items**

Description	LINKHUB
Model Name	HH40L2
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

### **1.2. Test Standards**

FCC Part 15, Subpart B (10-1-2021 Edition); ANSI C63.4-2014.

### **1.3. Test Result**

Total test 2 items, pass 2 items. Please refer to "6.2 Test Results".

### **1.4. Testing Location**

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

### **1.5. Project data**

Testing Start Date: 2023-10-12

Testing End Date: 2023-10-13

### **1.6. Signature**

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Huang Kaiyang

(Prepared this test report)

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Huang Yuqing

(Reviewed this test report)

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Cao Junfei

(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

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### **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: Annie Jiang  
Email: nianxiang.jiang@tcl.com  
Tel: 0086-755-3661 1621  
Fax: 0086-755-36612000-81722



### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT**

#### **(AE)**

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

Description	LINKHUB
Model Name	HH40L2
FCC ID	2ACCJB202
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**

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Receive Date</b>
UT01aa	354205410332305	TZ7.823.397	HH40L2.1.01	2023-10-07

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

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>
AE1	Battery
AE2	Charger

##### AE1

Model	Z2000
Manufacturer	ShenzhenAerospaceElectronic Co.,Ltd
Capacity	2000mAh
Nominal Voltage	7.4 V

##### AE2-1

Model	1-CHUSB102-130
Manufacturer	Huizhou Puan electronics Co.,Ltd

##### AE2-2

Model	1-CHUSB102-131
Manufacturer	Huizhou Puan electronics Co.,Ltd

##### AE2-3

Model	1-CHUKB102-132
Manufacturer	Huizhou Puan electronics Co.,Ltd

##### AE2-4

Model	KL WA120100-T1
Manufacturer	XIAMEN KELI

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

AE: ancillary equipment

AE2: The circuit boards of AE2-1, AE2-2 and AE2-3 are the same.



**3.4. EUT Set-ups**

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT+AE1-1+AE2-4+PC	
Set.2	EUT+AE2-4+PC	

### 3.5. General Description

The Equipment Under Test (EUT) is a model of LINKHUB with internal antenna.

It supports GSM 900/1800/1900MHz, LTE Bands 5/41.

It has Wi-Fi and Wired network functions.

It consists of normal options: Battery, Charger.

Manual and specifications of the EUT were provided to fulfill the test.

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

This report serves as a record of LINKHUB HH40L2 manufactured by TCL Communication Ltd.

According to the declaration of differences by manufacturer, the table below shows the differences;

<b>Differences</b> \ <b>Model</b>	HH40L2 (Original Model)	HH40L2 (Record)
Test Standards	/	Add external antenna matching of GSM/LTE SMA and external antenna connector of GSM/LTE SMA
Charger	/	Add a Charger of model KL WA120100-T1
Battery	Ship with battery	Ship with battery or not

According to the declaration of differences by manufacturer, in addition the following tests need to be performed:

NO.	Test item	EUT ID	EUT Set-ups	Operating mode
1	Conducted Emission	UT01aa	Set.1/Set.2	LTE receiver
2	Radiated Emission	UT01aa	Set.1/Set.2	Wired network function

Other results are cited from the initial report.

The report number for initial model is I23N00436-EMC.





## **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	(10-1-2021 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

**Anechoic chamber (FACT3-2.0)** 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> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
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> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω

## 6. SUMMARY OF TEST RESULTS

### 6.1. Testing Environment

Normal Temperature: 15~35°C  
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/IC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)/ Section 6.2	A.1	P
2	Conducted Emission	15.107(a)/ Section 6.1	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	4.86dB(k=2)
	1GHz-18GHz	4.82dB(k=2)
Conducted Emission	150kHz-30MHz	2.62dB(k=2)

## 8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2023.11.23	1 year
2.	Test Receiver	ESCI	100702	R&S	2024.01.11	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2024.01.11	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2024.10.07	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/
9.	Universal Radio Communication Tester	CMU200	114545	R&S	2024.01.11	1 year
10.	Universal Radio Communication Tester	CMW500	152499	R&S	2024.07.13	1 year



**9. TEST ACCESSORY UTILIZED**

<b>No.</b>	<b>Name</b>	<b>Model</b>	<b>Serial Number</b>	<b>Manufacturer</b>	<b>Calibration Due date</b>	<b>Calibration Period</b>
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/



## **ANNEX A: MEASUREMENT RESULTS**

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

#### **Reference**

FCC: Part 15.109(a)

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

The field strength of radiated emissions from the unintentional radiator at a distance of 3 meters or 1 meter 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. Below 18GHz the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz the measurement antenna was placed at a distance of 1 meters from the EUT. (According to Part 15.31(f)(1), 1m limit is calculated by extrapolation factor of 20 dB/decade) 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:**

**LTE receiver:** The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands:LTE Band 5.

The EUT was tested while operating in licensed band receiver mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Section 3.1, 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. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

**A.1.3 Measurement Limit**

Limit from Part 15.109(a)

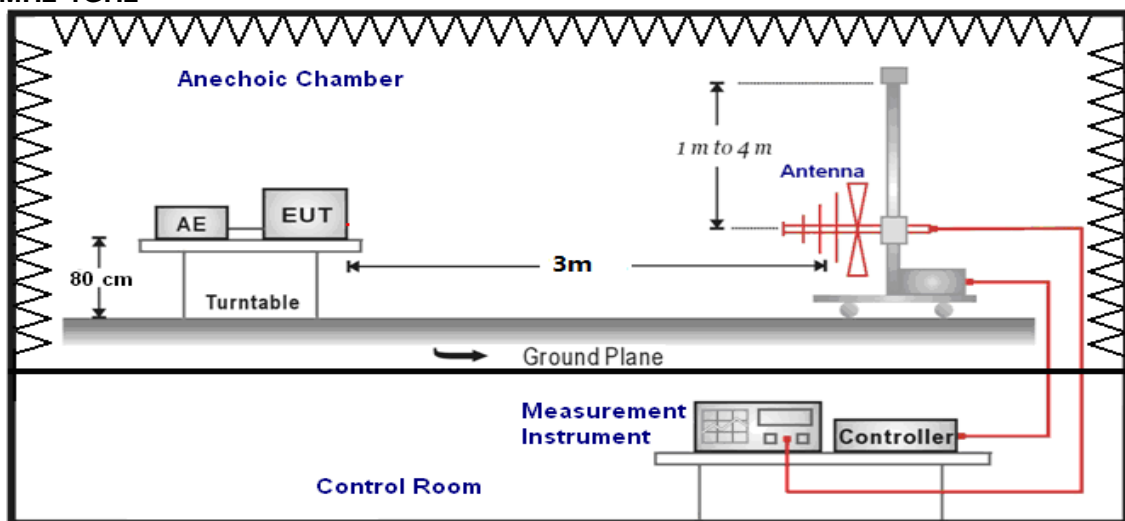
Frequency range (MHz)	Field strength limit ( $\mu\text{V}/\text{m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

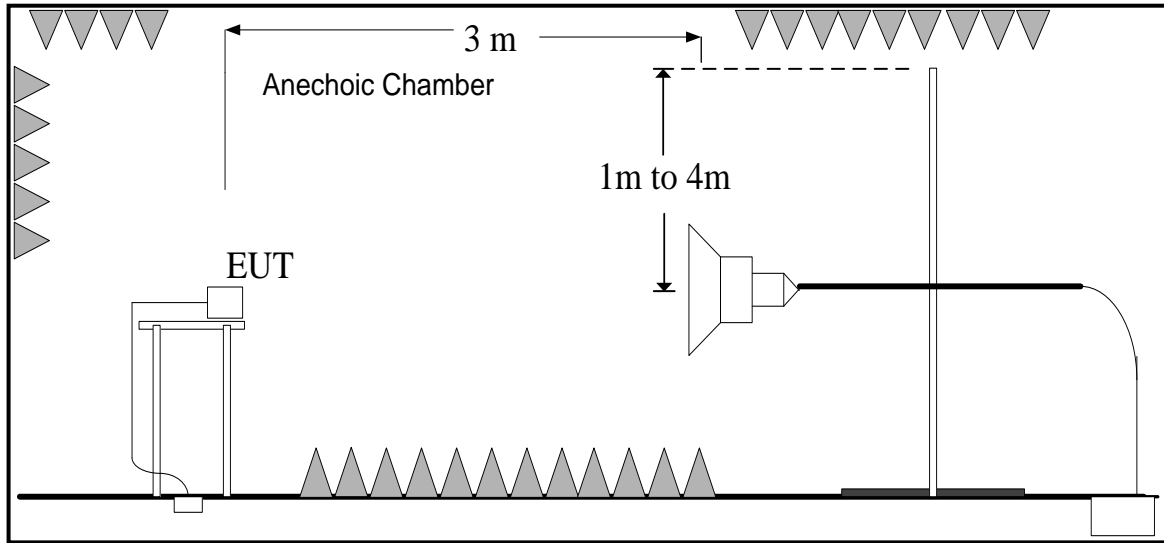
**A.1.4 Test Condition**

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-40GHz



**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(dB $\mu$ V/m) / Average(dB $\mu$ V/m)/Peak(dB $\mu$ V/m)

Note: the result contains vertical part and Horizontal part

LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.1	
30-88	40.00	See Figure A.1.1.	P
88-216	43.52		
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)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P





LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.2	
30-88	40.00	See Figure A.1.3.	P
88-216	43.52		
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)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.4.	P

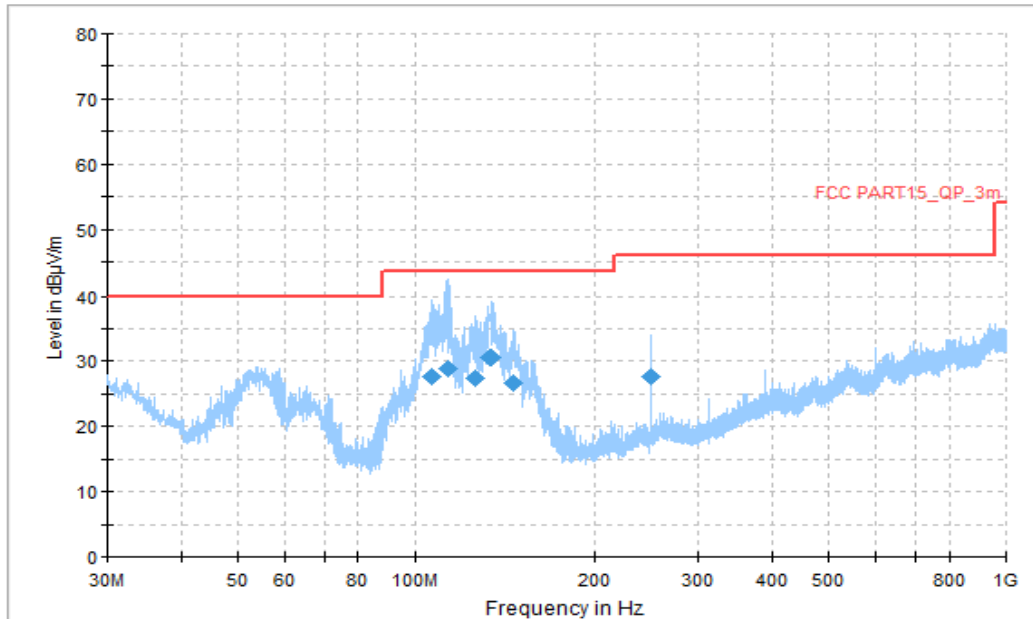


Figure A.1.1. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
106.683889	27.61	43.52	15.91	V	-18	45.61
113.905000	28.92	43.52	14.60	V	-19	47.92
126.299444	27.33	43.52	16.19	V	-19	46.33
133.843889	30.59	43.52	12.93	V	-18	48.59
145.537778	26.69	43.52	16.83	V	-18	44.69
249.974444	27.53	46.02	18.49	H	-14	41.53

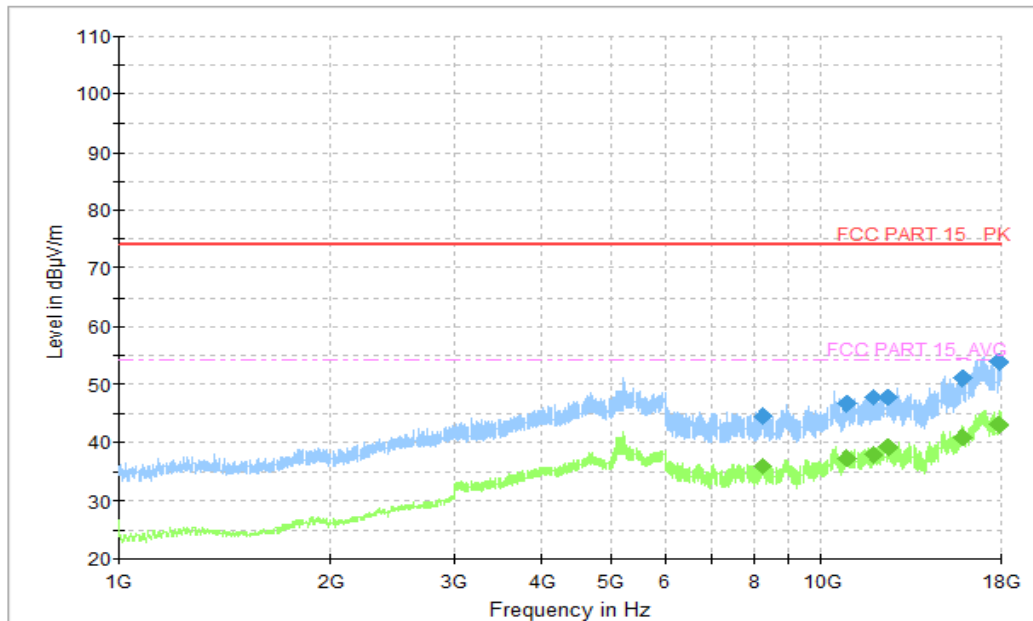


Figure A.1.2. Radiated Emission (LTE receiver Band 5 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8262.923077	44.45	74.00	29.55	V	5.9	38.55
10843.384615	46.82	74.00	27.18	V	9.2	37.62
11866.615385	47.68	74.00	26.32	H	10.1	37.58
12451.384615	47.89	74.00	26.11	H	11.4	36.49
15872.307692	51.11	74.00	22.89	V	14.0	37.11
17935.846154	53.79	74.00	20.21	H	19.0	34.79

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
8262.923077	35.99	54.00	18.01	V	5.9	30.09
10843.384615	37.37	54.00	16.63	V	9.2	28.17
11866.615385	37.93	54.00	16.07	H	10.1	27.83
12451.384615	39.23	54.00	14.77	H	11.4	27.83
15872.307692	40.86	54.00	13.14	V	14.0	26.86
17935.846154	43.18	54.00	10.82	H	19.0	24.18

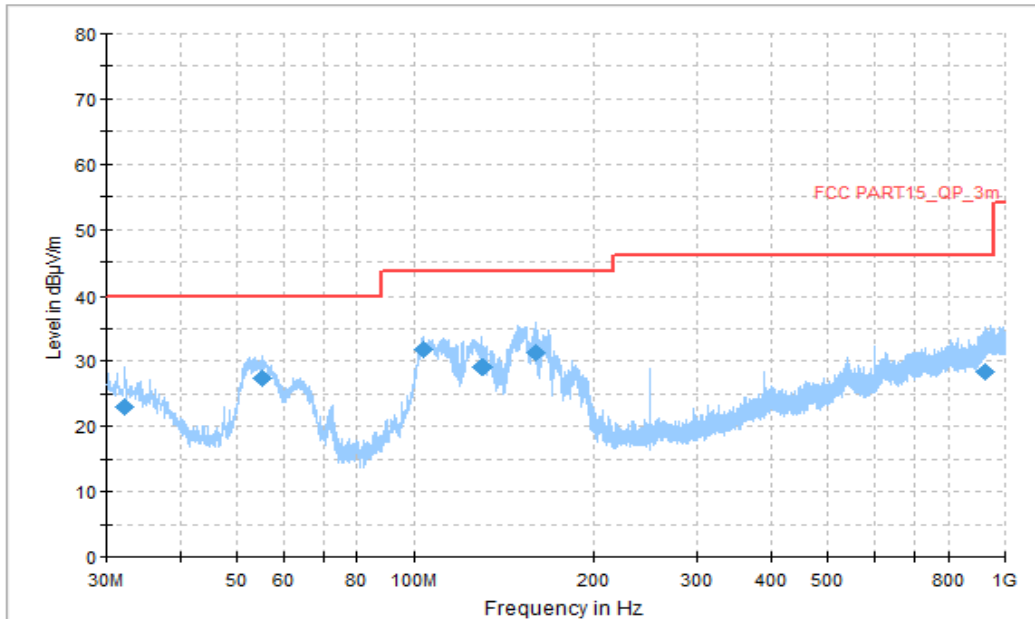
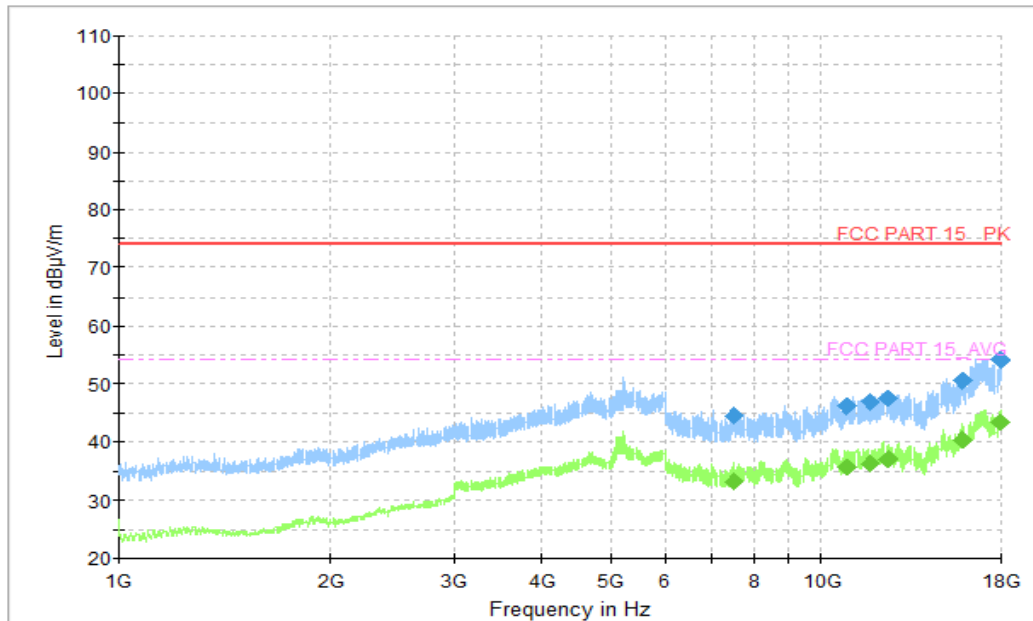


Figure A.1.3. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
32.155556	22.89	40.00	17.11	V	-12	34.89
55.112222	27.38	40.00	12.62	V	-21	48.38
103.342778	31.83	43.52	11.69	V	-18	49.83
129.586667	29.10	43.52	14.42	V	-19	48.10
160.195556	31.35	43.52	12.17	V	-16	47.35
922.507778	28.45	46.02	17.57	V	3	25.45



**Figure A.1.4. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)**

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
7504.615385	44.83	74.00	29.17	H	5.7	39.13
10848.923077	46.50	74.00	27.50	V	9.2	37.3
11736.461539	47.43	74.00	26.57	V	9.8	37.63
12474.000000	47.66	74.00	26.34	H	11.3	36.36
15910.153846	51.00	74.00	23.00	H	14.1	36.9
17982.923077	54.63	74.00	19.37	H	19.2	35.43

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
7504.615385	33.49	54.00	20.51	H	5.7	27.79
10848.923077	35.80	54.00	18.20	V	9.2	26.6
11736.461539	36.46	54.00	17.54	V	9.8	26.66
12474.000000	37.16	54.00	16.84	H	11.3	25.86
15910.153846	40.69	54.00	13.31	H	14.1	26.59
17982.923077	43.50	54.00	10.50	H	5.7	37.80



**A.2 Conducted Emission (§15.107(a))**

**Reference**

FCC: 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:**

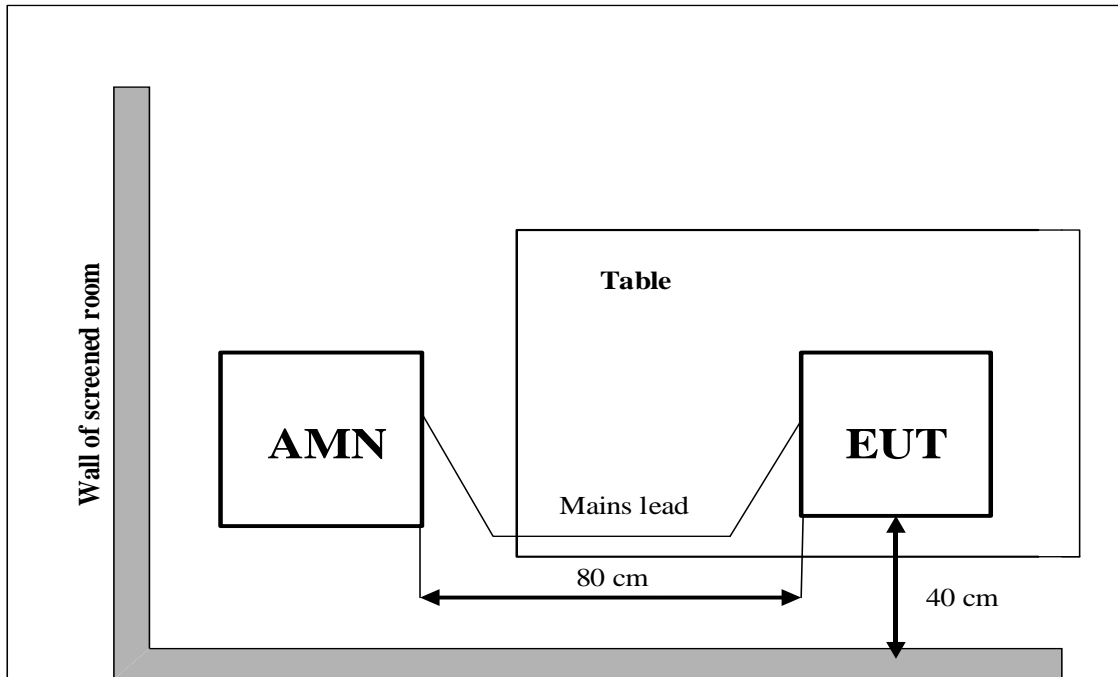
**Wired network function:** A laptop is connected to EUT by unshielded Twisted Pair. The EUT allocate an IP address to this laptop, and start a PING program to establish a communication link between EUT and the laptop.

**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 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**

$$\text{QuasiPeak(dB}\mu\text{V) /Average(dB}\mu\text{V) =PMea+Corr}$$

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Wired network function

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.1.	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.



Wired network function

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.2.	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

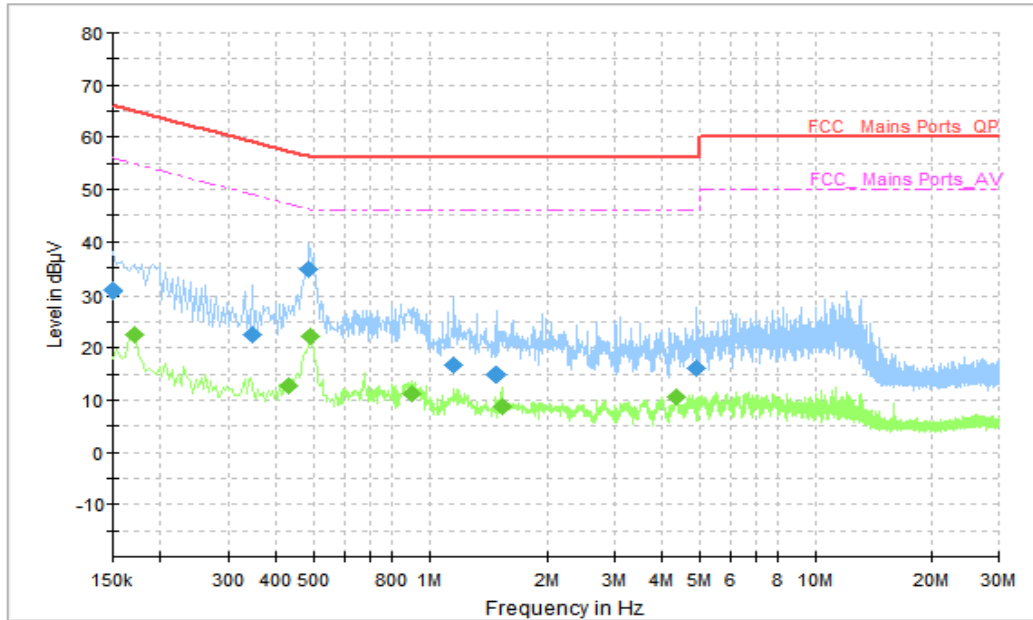


Figure A.2.1. Conducted Emission (Wired network function)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.150000	30.88	66.00	35.12	N	7	23.88
0.346000	22.56	59.06	36.50	L1	10	12.56
0.486000	34.62	56.24	21.62	N	10	24.62
1.154000	16.56	56.00	39.44	N	10	6.56
1.482000	14.91	56.00	41.09	L1	10	4.91
4.906000	16.18	56.00	39.82	N	10	6.18

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.170000	22.56	54.96	32.40	N	8	14.56
0.430000	12.60	47.25	34.65	L1	10	2.6
0.490000	22.30	46.17	23.87	N	10	12.30
0.898000	11.18	46.00	34.82	N	10	1.18
1.534000	8.80	46.00	37.20	N	10	-1.2
3.998000	21.19	46.00	24.81	L1	10	11.19

AC Input Port/ Voltage:240V/60Hz

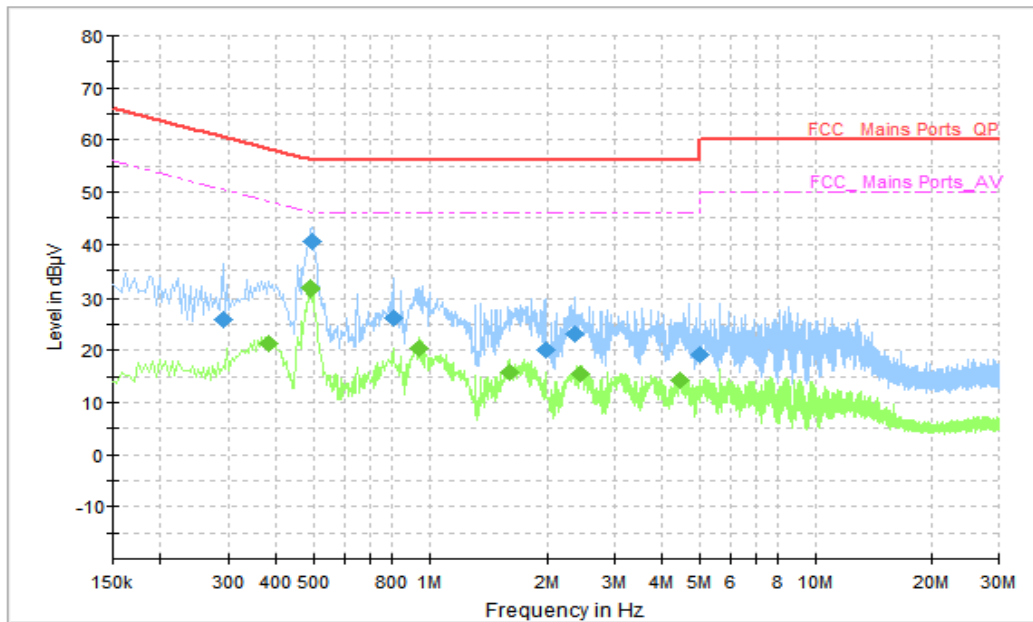


Figure A.2.2. Conducted Emission (Wired network function)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.290000	25.98	60.52	34.55	L1	10	15.98
0.494000	40.49	56.10	15.61	N	10	30.49
0.806000	26.28	56.00	29.72	N	10	16.28
1.982000	20.19	56.00	35.81	N	10	10.19
2.362000	23.21	56.00	32.79	N	10	13.21
4.986000	19.29	56.00	36.71	N	10	9.29

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.382000	21.21	48.24	27.03	N	10	11.21
0.490000	31.63	46.17	14.53	N	10	21.63
0.942000	20.29	46.00	25.71	N	10	10.29
1.606000	15.90	46.00	30.10	N	10	5.90
2.450000	15.51	46.00	30.49	N	10	5.51
4.438000	14.11	46.00	31.89	N	10	4.11

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