



FCC 15B TEST REPORT

No. I20Z60996-EMC01

for

TCL Communication Ltd.

Mobile WiFi

Model Name: MW45AN

FCC ID: 2ACCJB132

with

Hardware Version: V2.0

Software Version: MW45A_ZZ_02.00_01

Issued Date: 2020-07-30

Note:

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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: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20Z60996-EMC01	Rev.0	1 st edition	2020-07-16
I20Z60996-EMC01	Rev.1	2 nd edition,Update the AE information	2020-07-27
I20Z60996-EMC01	Rev.2	3 rd edition.Delete GSM related content.	2020-07-30

CONTENTS

1. TEST LABORATORY.....	4
1.1. TESTING LOCATION.....	4
1.2. TESTING ENVIRONMENT.....	4
1.3. PROJECT DATA.....	4
1.4. SIGNATURE.....	4
2. CLIENT INFORMATION.....	5
2.1. APPLICANT INFORMATION.....	5
2.2. MANUFACTURER INFORMATION.....	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE).....	6
3.1. ABOUT EUT.....	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST.....	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	6
3.4. EUT SET-UPS.....	7
4. REFERENCE DOCUMENTS.....	8
4.1. REFERENCE DOCUMENTS FOR TESTING.....	8
5. LABORATORY ENVIRONMENT.....	9
6. SUMMARY OF TEST RESULTS.....	10
7. TEST EQUIPMENTS UTILIZED.....	11
ANNEX A: MEASUREMENT RESULTS.....	12
ANNEX B: PERSONS INVOLVED IN THIS TESTING.....	26

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: 2020-07-02

Testing End Date: 2020-07-15

1.4. Signature



An Hui

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Liu Baodian

(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
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36611722

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: 0086-755-36611722

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

3.1. About EUT

Description	Mobile WiFi
Model Name	MW45AN
FCC ID	2ACCJB132

The Equipment under Test (EUT) is a model of Mobile WiFi with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client.

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

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	350426930001220	V2.0	MW45A_ZZ_02.00_01

*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	/	VEKEN
AE2	charger	/	UC11US(PUAN)
AE3	charger	/	UC11US(CHENYANG)
AE4	USB Cable	/	JUWEI

AE1

Model	CAB2150015C7
Manufacturer	NINGBO VEKEN BATTERY CO., LTD
Capacity	2150mAh
Nominal Voltage	/

AE2

Model	UC11US
Manufacturer	HUIZHOU PUAN ELECTRONICS CO., LTD
Length of cable	/

AE3

Model	UC11US
Manufacturer	JIANGSU CHENYANG ELECTRON CO LTD
Length of cable	/



AE4

Model CDA0000158C1
Manufacturer HUIZHOU JUWEI ELECTRONICS CO.,LTD
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.2	EUT1+ AE1 + AE2 + AE4	Charger+WCDMA Band5 eciever
Set.3	EUT1+ AE1 + AE2 + AE4	Charger+ Band5/13/17 Reciever
Set.5	EUT1+ AE1 + AE3 + AE4	Charger+WCDMA Band5 eciever
Set.6	EUT1+ AE1 + AE3 + AE4	Charger+ Band5/13/17 Reciever

Note:

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: WCDMA850, LTE B5, LTE B13,LTE B17.

The EUT was tested while operating in licensed band RX mode. All licensed band receivers 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.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	10-1-16 Edition
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 M
Ground system resistance	< 4
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 M
Ground system resistance	< 4

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	NA	Not applicable
	F	Fail
Location Column	1/2/4	The test is performed in test location 1/2/4 which is described in section 1.1 of this report

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

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	LISN	ENV216	101200	Rohde & Schwarz	1 year	2021-05-19
2	Test Receiver	ESCI 7	100344	Rohde & Schwarz	1 Year	2021-02-26
3	Universal Radio Communication Tester	CMW500	150344	R&S	1 Year	2020-11-17
4	Test Receiver	ESU26	100235	Rohde & Schwarz	1 Year	2021-03-03
5	BiLog Antenna	VULB9163	483	Schwarzbeck	1 Year	2020-09-17
6	Dual-Ridge Waveguide Horn Antenna	3115	6914	ETS-Lindgren	1 Year	2021-01-14

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01.0	R&S
Conducted Emission	EMC32 V8.52.0	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 (charging mode and FM mode of MS) 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 2.2, 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.

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_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.16dB, 1GHz-18GHz: 5.44dB, $k=2$.

Note: Test result is the worst result in LTE B5,LTE B13,LTE B17.

Measurement results for Set.2:

Charger + WCDMA 850 idle QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.116000	15.18	30.00	14.82	202.0	V	120.0
45.409000	11.16	30.00	18.84	203.0	V	110.0
61.798000	14.19	30.00	15.81	202.0	V	111.0
99.997000	11.42	33.50	22.10	186.0	V	104.0
115.027000	12.47	33.50	21.05	108.0	V	69.0
155.730000	9.31	33.50	24.21	125.0	V	107.0

Charger + WCDMA 850 idle Mode /Average detector

Frequency (MHz)	Result (dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17992.633	57.2	-17.7	45.6	29.300	H	74.0	16.8
17986.967	56.1	-17.7	45.6	28.200	H	74.0	17.9
17980.167	56.1	-17.7	45.6	28.200	V	74.0	17.9
17993.200	55.9	-17.7	45.6	28.000	H	74.0	18.1
17973.933	55.9	-17.7	45.6	28.000	H	74.0	18.1
17989.233	55.8	-17.7	45.6	27.900	H	74.0	18.2

Charger + WCDMA 850 idle Mode /Peak detector

Frequency (MHz)	Result (dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17988.100	48.4	-17.7	45.6	20.500	H	54.0	5.6
17998.300	47.8	-17.7	45.6	19.900	H	54.0	6.2
17990.933	47.5	-17.7	45.6	19.600	V	54.0	6.5
17979.600	47.4	-17.7	45.6	19.500	H	54.0	6.6
17983.000	47.3	-17.7	45.6	19.400	H	54.0	6.7
17985.267	47.2	-17.7	45.6	19.300	H	54.0	6.8

Measurement results for Set.3:
Charger + LTE B13 idle Mode QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
33.353000	13.24	30.00	16.76	101.0	V	75.0
42.231000	11.14	30.00	18.86	210.0	V	86.0
60.467000	12.88	30.00	17.12	225.0	V	94.0
68.698000	9.64	30.00	20.36	125.0	V	73.0
119.508000	8.88	33.50	24.64	179.0	V	65.0
157.731000	7.82	33.50	25.70	117.0	V	60.0

Charger + LTE B13 idle Average detector

Frequency (MHz)	Result (dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17974.500	56.5	-17.7	45.6	28.600	H	74.0	17.5
17995.467	56.2	-17.7	45.6	28.300	H	74.0	17.8
17937.100	56.2	-17.7	45.6	28.300	V	74.0	17.8
17984.133	56.1	-17.7	45.6	28.200	H	74.0	17.9
17979.033	56.1	-17.7	45.6	28.200	H	74.0	17.9
17984.700	56.0	-17.7	45.6	28.100	H	74.0	18.0

Charger + LTE B13 idle Peak detector

Frequency (MHz)	Result (dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17985.267	48.0	-17.7	45.6	20.100	H	54.0	6.0
17993.767	47.8	-17.7	45.6	19.900	H	54.0	6.2
17996.600	47.6	-17.7	45.6	19.700	V	54.0	6.4
17998.867	47.5	-17.7	45.6	19.600	H	54.0	6.5
17982.433	47.3	-17.7	45.6	19.400	H	54.0	6.7
17985.833	47.3	-17.7	45.6	19.400	H	54.0	6.7

Measurement results for Set.5:
Charger + WCDMA 850 idle QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.605000	9.28	30.00	20.72	125.0	V	190.0
50.051000	10.76	30.00	19.24	200.0	V	120.0
59.687000	10.40	30.00	19.60	120.0	V	210.0
91.258000	6.65	33.50	26.87	177.0	V	164.0
106.090000	8.46	33.50	25.06	118.0	V	94.0
176.211000	6.22	33.50	27.30	109.0	V	150.0

Charger + WCDMA 850 idle Mode /Average detector

Frequency (MHz)	Result (dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17994.333	57.0	-17.7	45.6	29.100	H	74.0	17.0
17992.067	56.7	-17.7	45.6	28.800	H	74.0	17.3
17987.533	56.1	-17.7	45.6	28.200	V	74.0	17.9
17981.300	56.0	-17.7	45.6	28.100	H	74.0	18.0
17997.733	56.0	-17.7	45.6	28.100	H	74.0	18.0
17995.467	56.0	-17.7	45.6	28.100	H	74.0	18.0

Charger + WCDMA 850 idle Mode /Peak detector

Frequency (MHz)	Result (dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17990.367	48.2	-17.7	45.6	20.300	H	54.0	5.8
17991.500	47.6	-17.7	45.6	19.700	H	54.0	6.4
17982.433	47.6	-17.7	45.6	19.700	V	54.0	6.4
17987.533	47.4	-17.7	45.6	19.500	H	54.0	6.6
17995.467	47.3	-17.7	45.6	19.400	H	54.0	6.7
17975.067	47.3	-17.7	45.6	19.400	H	54.0	6.7

Measurement results for Set.6:
Charger + LTE B13 idle Mode QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.259000	9.76	30.00	20.24	175.0	V	210.0
45.682000	10.14	30.00	19.86	125.0	V	176.0
52.264000	11.44	30.00	18.56	118.0	V	63.0
60.597000	10.17	30.00	19.83	188.0	V	95.0
104.099000	8.68	33.50	24.84	114.0	V	171.0
139.661000	5.26	33.50	28.26	112.0	V	94.0

Charger + LTE B13 idle Average detector

Frequency (MHz)	Result (dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17876.467	56.8	-18.5	45.6	29.700	H	74.0	17.2
17982.433	56.8	-17.7	45.6	28.900	H	74.0	17.2
17969.967	56.6	-17.7	45.6	28.700	V	74.0	17.4
17989.800	56.6	-17.7	45.6	28.700	H	74.0	17.4
17998.867	55.9	-17.7	45.6	28.000	H	74.0	18.1
17899.133	55.9	-18.5	45.6	28.800	H	74.0	18.1

Charger + LTE B13 idle Peak detector

Frequency (MHz)	Result (dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity	Limit (dB μ V/m)	Margin (dB)
17963.167	47.8	-17.7	45.6	19.900	H	54.0	6.2
17882.133	47.7	-18.5	45.6	20.600	H	54.0	6.3
17989.800	47.5	-17.7	45.6	19.600	V	54.0	6.5
17996.600	47.3	-17.7	45.6	19.400	H	54.0	6.7
17985.267	47.3	-17.7	45.6	19.400	H	54.0	6.7
17974.500	47.2	-17.7	45.6	19.300	H	54.0	6.8

Sample calculation: Peak detector, 17963.167MHz

Result = P_{Mea} (19.9dB μ V) + G_A (45.6dB/m) + G_{PL} (-17.7 dB) = 47.8 dB μ V/m

Charger + WCDMA850 idle, Set.2

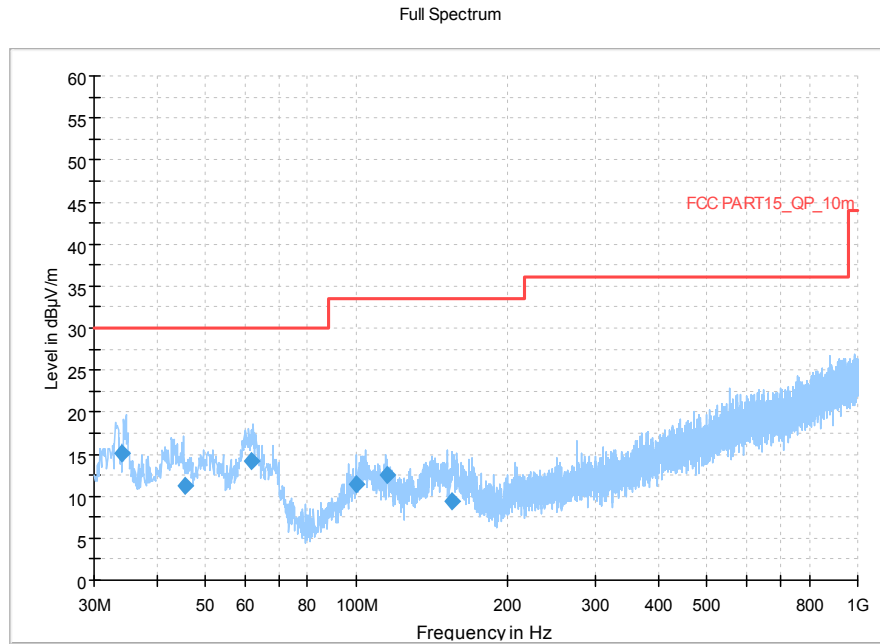


Figure A.1 Radiated Emission from 30MHz to 1GHz

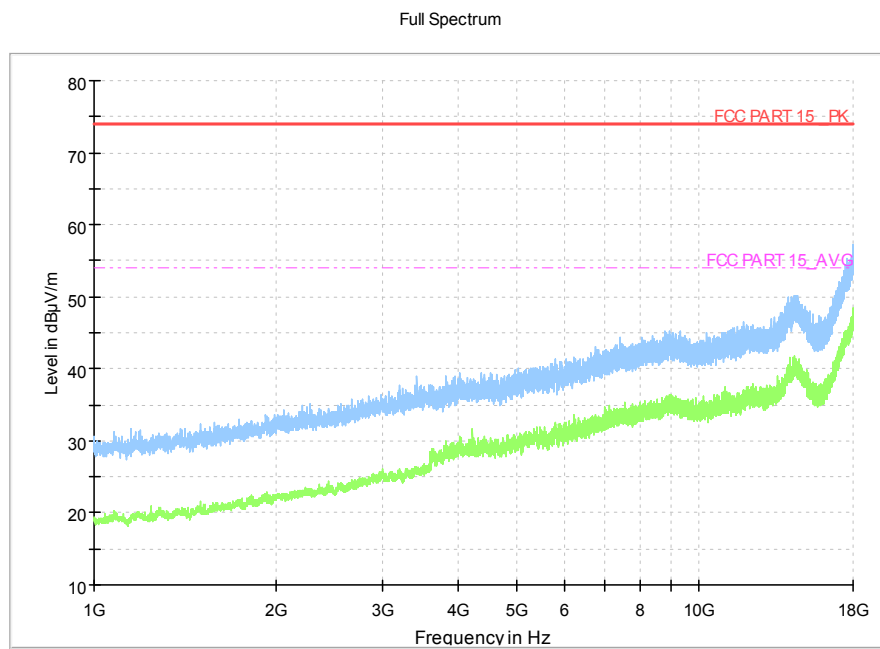


Figure A.2 Radiated Emission from 1GHz to 18GHz

Charger + LTE FDD Band 13, Set.3

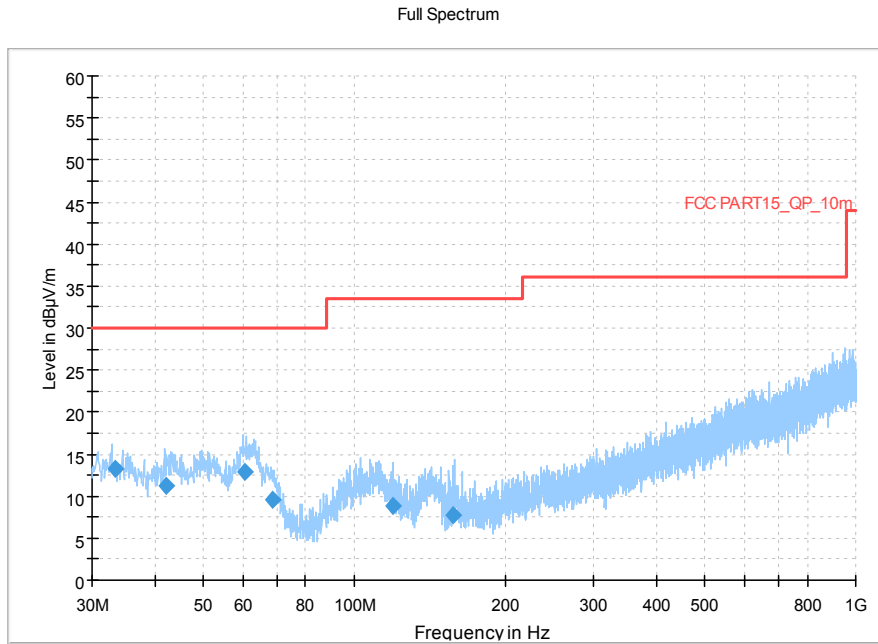


Figure A.3 Radiated Emission from 30MHz to 1GHz

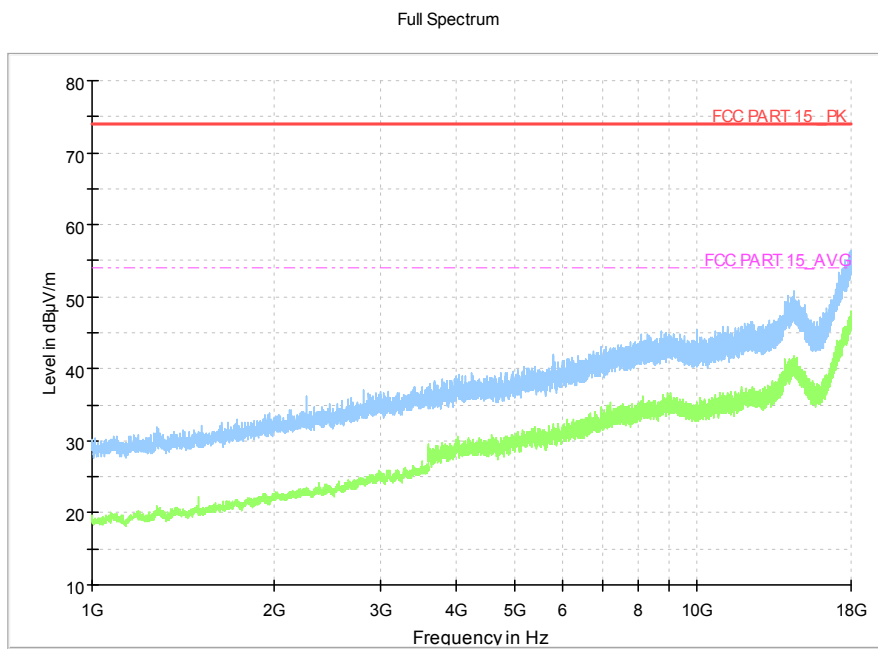


Figure A.4 Radiated Emission from 1GHz to 18GHz

Charger + WCDMA850 idle, Set.5

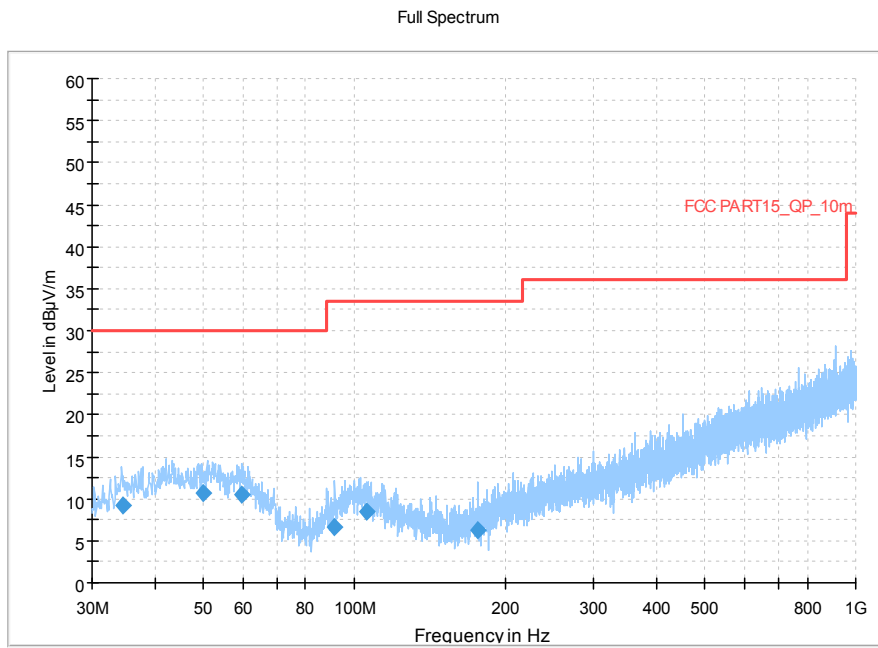


Figure A.5 Radiated Emission from 30MHz to 1GHz

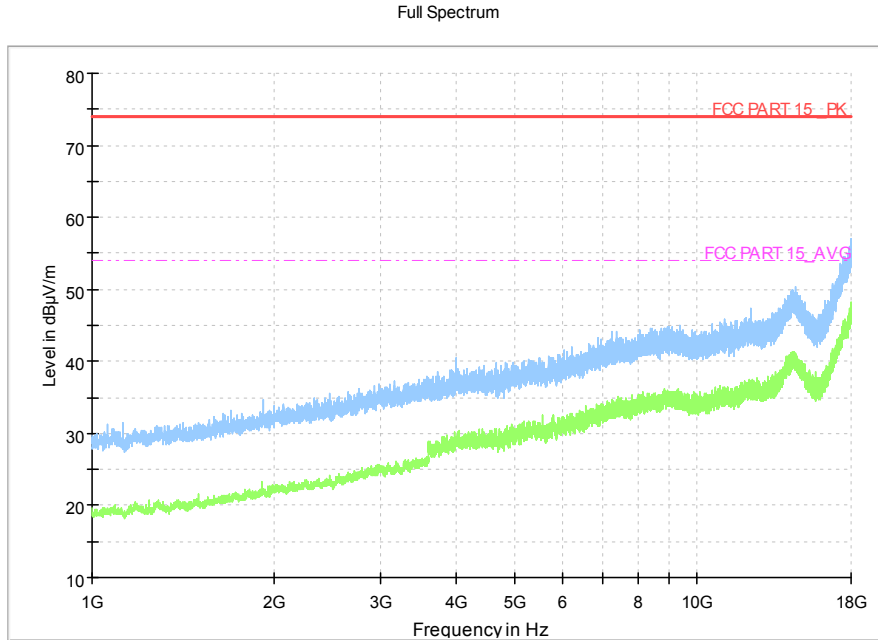


Figure A.6 Radiated Emission from 1GHz to 18GHz

Charger + LTE FDD Band 13, Set.6

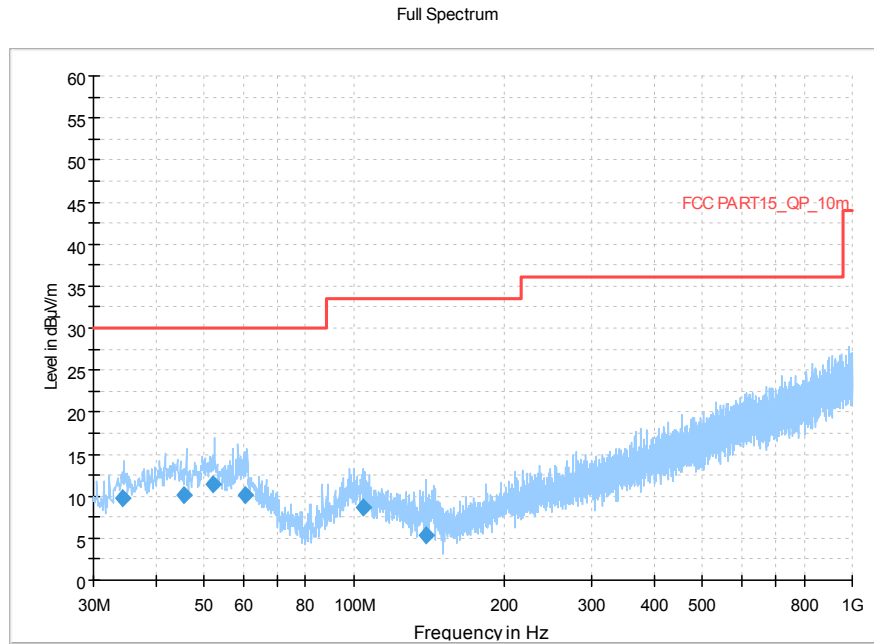


Figure A.7 Radiated Emission from 30MHz to 1GHz

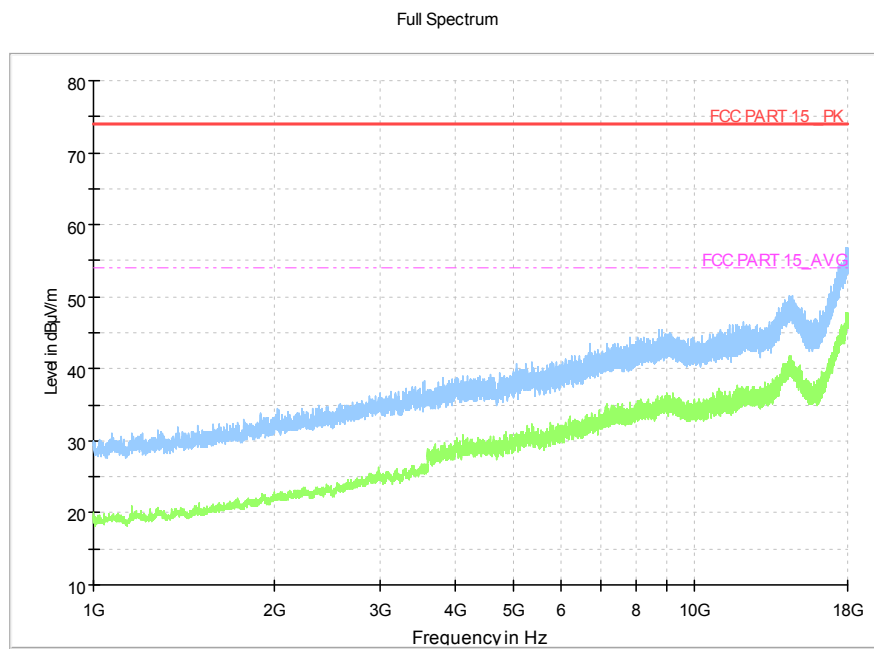


Figure A.8 Radiated Emission from 1GHz to 18GHz

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 μ 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: $U=3.08\text{dB}$, $k=2$.

Note: Test result is the worst result in LTE B5,LTE B13,LTE B17.

Charger + WCDMA850 idle, Set.2

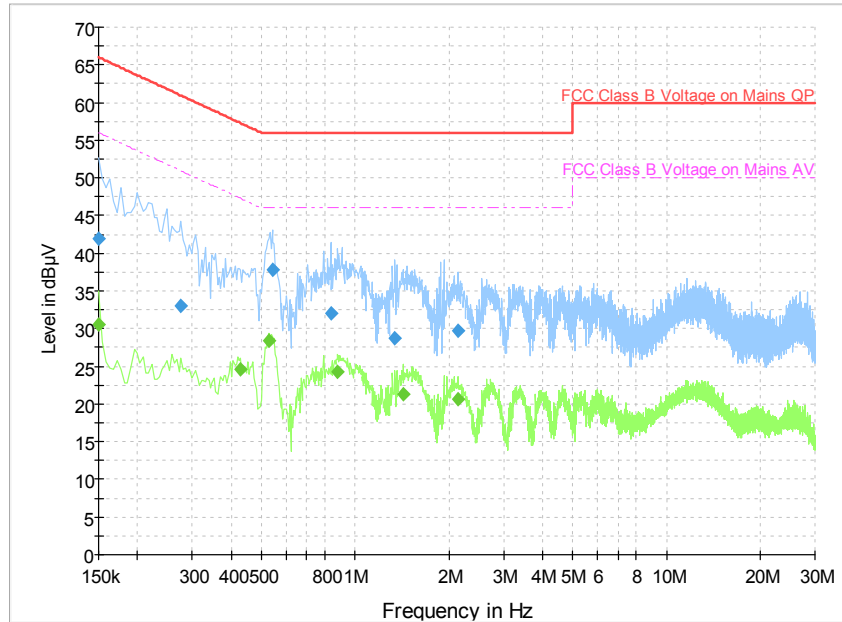


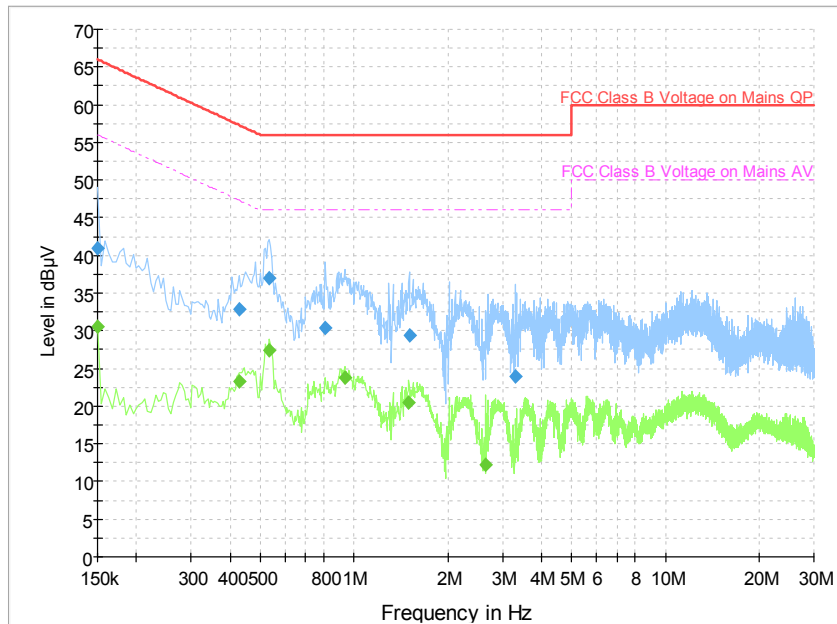
Figure A.9 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	41.9	L1	20.1	24.1	66.0
0.276000	33.1	L1	19.8	27.8	60.9
0.541500	37.8	N	19.9	18.2	56.0
0.834000	32.0	L1	19.8	24.0	56.0
1.342500	28.7	N	19.7	27.3	56.0
2.143500	29.7	L1	19.5	26.3	56.0

Final Result 2

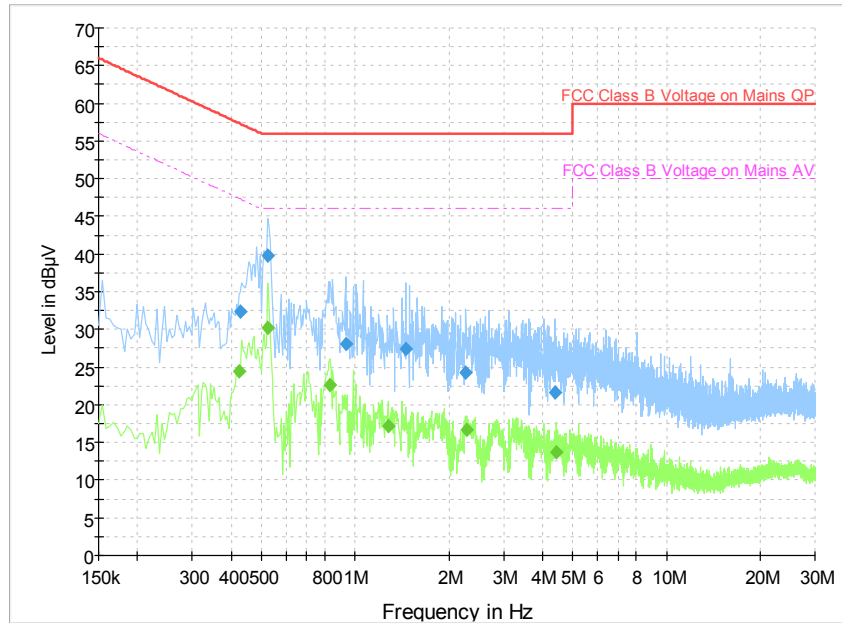
Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	30.6	L1	20.1	25.4	56.0
0.429000	24.6	N	19.8	22.7	47.3
0.528000	28.4	N	19.9	17.6	46.0
0.879000	24.2	L1	19.8	21.8	46.0
1.428000	21.2	N	19.7	24.8	46.0
2.139000	20.6	L1	19.5	25.4	46.0

Charger + LTE FDD Band 13, Set.3

Figure A.10 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	40.9	N	20.0	25.1	66.0
0.429000	32.9	L1	19.8	24.4	57.3
0.532500	37.0	L1	19.9	19.0	56.0
0.807000	30.3	N	19.7	25.7	56.0
1.504500	29.5	N	19.7	26.5	56.0
3.291000	24.0	L1	19.5	32.0	56.0

Final Result 2

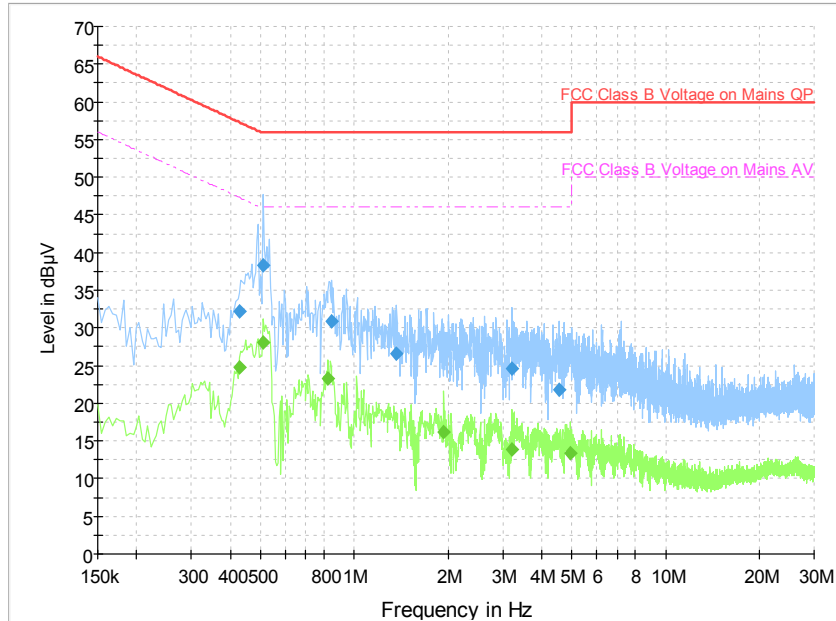
Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	30.5	L1	20.1	25.5	56.0
0.429000	23.2	L1	19.8	24.0	47.3
0.532500	27.5	L1	19.9	18.5	46.0
0.933000	23.7	L1	19.8	22.3	46.0
1.500000	20.5	L1	19.6	25.5	46.0
2.652000	12.2	L1	19.5	33.8	46.0

Charger + WCDMA850 idle, Set.5

Figure A.11 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	32.4	L1	19.8	24.9	57.3
0.523500	39.8	L1	19.9	16.2	56.0
0.933000	28.1	N	19.7	27.9	56.0
1.455000	27.4	L1	19.6	28.6	56.0
2.269500	24.3	L1	19.5	31.7	56.0
4.389000	21.6	L1	19.6	34.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.424500	24.5	N	19.8	22.9	47.4
0.523500	30.2	L1	19.9	15.8	46.0
0.829500	22.6	N	19.7	23.4	46.0
1.275000	17.2	L1	19.7	28.8	46.0
2.287500	16.6	L1	19.5	29.4	46.0
4.443000	13.7	N	19.7	32.3	46.0

Charger + LTE FDD Band 13, Set.6

Figure A.12 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	32.1	L1	19.8	25.1	57.3
0.510000	38.3	L1	19.9	17.7	56.0
0.847500	30.9	L1	19.8	25.1	56.0
1.369500	26.6	N	19.7	29.4	56.0
3.219000	24.6	L1	19.5	31.4	56.0
4.555500	21.9	N	19.7	34.1	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	24.8	L1	19.8	22.5	47.3
0.510000	28.0	L1	19.9	18.0	46.0
0.825000	23.3	N	19.7	22.7	46.0
1.941000	16.1	N	19.7	29.9	46.0
3.219000	13.8	L1	19.5	32.2	46.0
4.933500	13.4	L1	19.6	32.6	46.0



ANNEX B: Persons involved in this testing

Test Item	Tester
Conducted Continuous Emission	Yan Hanchen
Radiated Continuous Emission	Wang Huan

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