



TEST REPORT

No. I15Z40307-EMC01

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone

Model Name: A460G

FCC ID: RAD540

with

Hardware Version: HVN04

Software Version: v4A59

Issued Date: 2015-03-27

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.

Test Laboratory:

FCC 2.948 Listed: No.525429

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I15Z40307-EMC01	Rev.0	1 st edition	2015-03-27

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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℃

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2015-02-12

Testing End Date: 2015-03-26

1.4. Signature



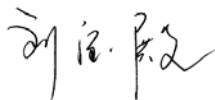
Zhang Hui

(Prepared this test report)



Qu Pengfei

(Reviewed this test report)



Liu Baodian

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCT Mobile Limited
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Contact Person: Gong Zhizhou
Contact Email: zhizhou.gong@jrdcom.com
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

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

3.1. About EUT

Description	HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone
Model Name	A460G
FCC ID	RAD540
Extreme vol. Limits	3.5VDC to 4.35VDC (nominal: 3.8VDC)

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
EUT4	014350000000789	HVN04	v4A59

*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	/	15TCT-BA-0033
AE2	Battery	/	15TCT-BA-0020
AE3	Battery	/	15TCT-BA-0021
AE4	Battery	/	14TCT-BA-1680
AE5	Battery	/	14TCT-BA-1706
AE6	Travel	/	14TCT-CH-0408
AE7	Travel	/	14TCT-CH-2034
AE8	Travel	/	14TCT-CH-1457
AE9	Travel	/	14TCT-CH-1456
AE10	USB cable	/	/
AE11	Charger	/	15TCT-CH-0028
AE12	Charger	/	15TCT-CH-0030
AE13	Charger	/	15TCT-CH-0029

AE1, AE2, AE3

Model	CAB1400002C1
Manufacturer	BYD
Capacitance	1400 mAh
Nominal voltage	3.7 V

AE4, AE5

Model	CAB1400002C2
Manufacturer	SCUD
Capacitance	1400 mAh
Nominal voltage	3.7 V

AE6,AE7

Model	CBA3002AG0C3
Manufacturer	YINGJU
Length of cable	125cm

AE8,AE9

Model	CBA3002AG0C2
Manufacturer	Tenpao
Length of cable	122cm

AE10

Model	/
Manufacturer	/
Length of cable	/

AE11, AE12, AE13

Model	CAB0066AG0C1
Manufacturer	BYD
Length of cable	125cm

*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.1	EUT4+ AE1+ AE6	Charger
Set.2	EUT4+ AE1+ AE8	Charger
Set.3	EUT4+ AE1+ AE10	USB mode
Set.4	EUT4+ AE1+ AE11	Charger

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	10-1-13 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	2009

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
Location Column	A/B/C/D	The test is performed in test location A, B, C or D which are described in section 1.1 of this report

Items	Test Name	Clause in FCC rules	Clause in IC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	Section 5	B.1	P	A
2	Conducted Emission	15.107(a)	Section 5	B.2	P	A

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTUR E	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100376	R&S	2015-10-29	1 year
2	Test Receiver	ESCI 7	100948	R&S	2015-07-16	1 year
3	Universal Radio Communication Tester	CMU200	109914	R&S	2015-04-13	1 year
4	Test Receiver	FSV	101047	R&S	2015-07-03	1 year
5	LISN	ENV216	101200	R&S	2015-07-07	1 year
6	EMI Antenna	VULB 9163	9163-234	Schwarzbeck	2016-09-15	3 years
7	EMI Antenna	3115	6914	ETS-Lindgren	2016-12-15	3 years
8	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
9	Monitor	E178FPc	CN-OWR979-64 180-7AJ-D2MS	DELL	N/A	N/A
10	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
11	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
12	Mouse	M-UAE119	LZ935220ZRC	Lenovo	N/A	N/A

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 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) is tested. Tested in accordance with the procedures of ANSI C63.4 - 2009, 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 model of the PC is DELL OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	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): $U = 4.3 \text{ dB}$, $k=2$.

Measurement results for Set.1:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
9381.813	35.5	-26.3	38.4	23.400	HORIZONTAL
9951.063	35.4	-24.9	38.0	22.300	HORIZONTAL
9973.563	35.3	-24.2	38.0	21.500	VERTICAL
9382.375	35.2	-25.6	38.4	22.400	VERTICAL
9892.563	35.2	-24.9	38.0	22.100	VERTICAL
9971.875	35.2	-24.2	38.0	21.400	HORIZONTAL

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
9929.125	48.2	-24.9	38.0	35.100	VERTICAL
8868.813	47.0	-26.6	38.0	35.600	VERTICAL
8941.375	47.0	-26.7	38.0	35.700	VERTICAL
9654.063	46.9	-25.4	38.0	34.300	HORIZONTAL
8932.375	46.8	-26.7	38.0	35.500	VERTICAL
9973.000	46.6	-24.2	38.0	32.800	HORIZONTAL

Measurement results for Set.2:
Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9982.000	35.0	-24.2	38.0	21.200	VERTICAL
9984.813	35.0	-24.2	38.0	21.200	HORIZONTAL
9382.938	34.9	-25.6	38.4	22.100	VERTICAL
9388.563	34.9	-25.6	38.4	22.100	HORIZONTAL
9395.875	34.9	-25.6	38.4	22.100	VERTICAL
9375.063	34.9	-26.3	38.4	22.800	HORIZONTAL

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9125.313	46.9	-26.1	38.4	34.600	HORIZONTAL
9135.438	46.8	-26.1	38.4	34.500	VERTICAL
9996.063	46.7	-24.2	38.0	32.900	HORIZONTAL
8917.750	46.6	-26.6	38.0	35.200	HORIZONTAL
8951.500	46.6	-26.7	38.0	35.300	VERTICAL
9394.188	46.6	-25.6	38.4	33.800	HORIZONTAL

Measurement result for Set.3:
USB Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{mea} (dB μ V)	Polarity
9960.063	34.2	-24.2	38.0	20.400	VERTICAL
9969.063	34.2	-24.2	38.0	20.400	HORIZONTAL
9993.250	34.1	-24.2	38.0	20.300	VERTICAL
9948.250	34.1	-24.9	38.0	21.000	VERTICAL
9969.625	34.0	-24.2	38.0	20.200	VERTICAL
9985.938	34.0	-24.2	38.0	20.200	VERTICAL

USB Mode/ Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{mea} (dB μ V)	Polarity
7985.688	46.6	-27.8	37.5	36.900	VERTICAL
9996.063	46.4	-24.2	38.0	32.600	VERTICAL
9930.813	45.9	-24.9	38.0	32.800	HORIZONTAL
9096.625	45.8	-26.7	38.4	34.100	HORIZONTAL
6734.688	45.8	-31.6	35.3	42.100	VERTICAL
9952.750	45.8	-24.9	38.0	32.700	VERTICAL

Measurement results for Set.4:**Charging Mode/Average detector**

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9965.375	35.6	-24.2	38.0	21.800	VERTICAL
9993.000	35.6	-24.2	38.0	21.800	VERTICAL
9995.125	35.4	-24.2	38.0	21.600	VERTICAL
9985.563	35.1	-24.2	38.0	21.300	HORIZONTAL
9962.188	35.1	-24.2	38.0	21.300	VERTICAL
9982.375	35.0	-24.2	38.0	21.200	HORIZONTAL

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9954.750	47.1	-24.9	38.0	34.000	VERTICAL
9993.000	46.6	-24.2	38.0	32.800	HORIZONTAL
9281.125	46.5	-26.0	38.4	34.100	VERTICAL
9127.063	46.5	-26.1	38.4	34.200	HORIZONTAL
8997.438	46.5	-26.7	38.0	35.200	VERTICAL
9327.875	46.5	-26.3	38.4	34.400	VERTICAL

Note: The measurement results of Set.1, Set.2, Set.3, Set.4 showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.1

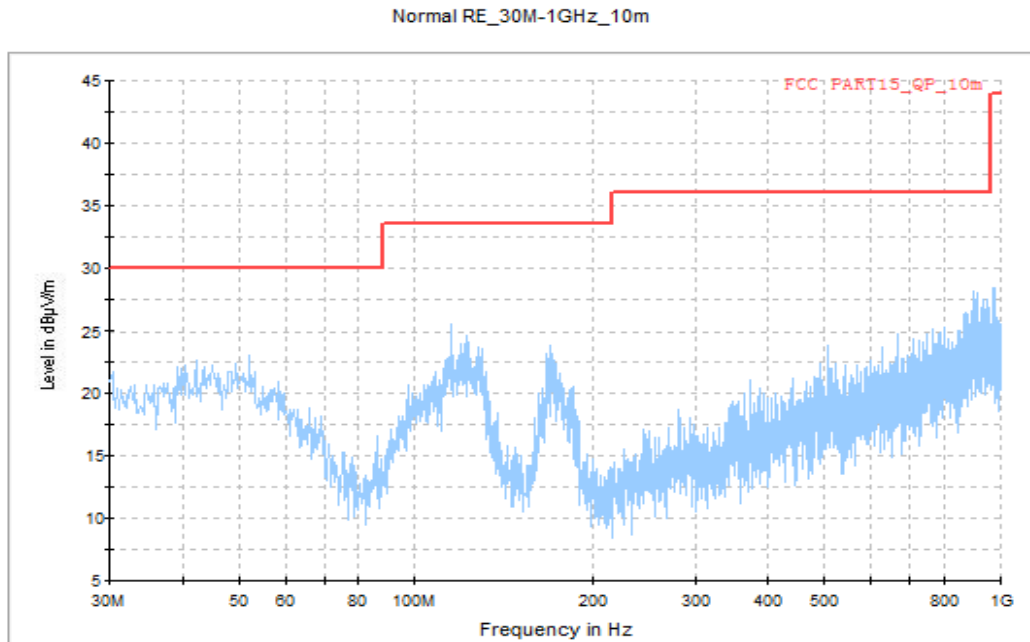


Figure A.1 Radiated Emission from 30MHz to 1GHz

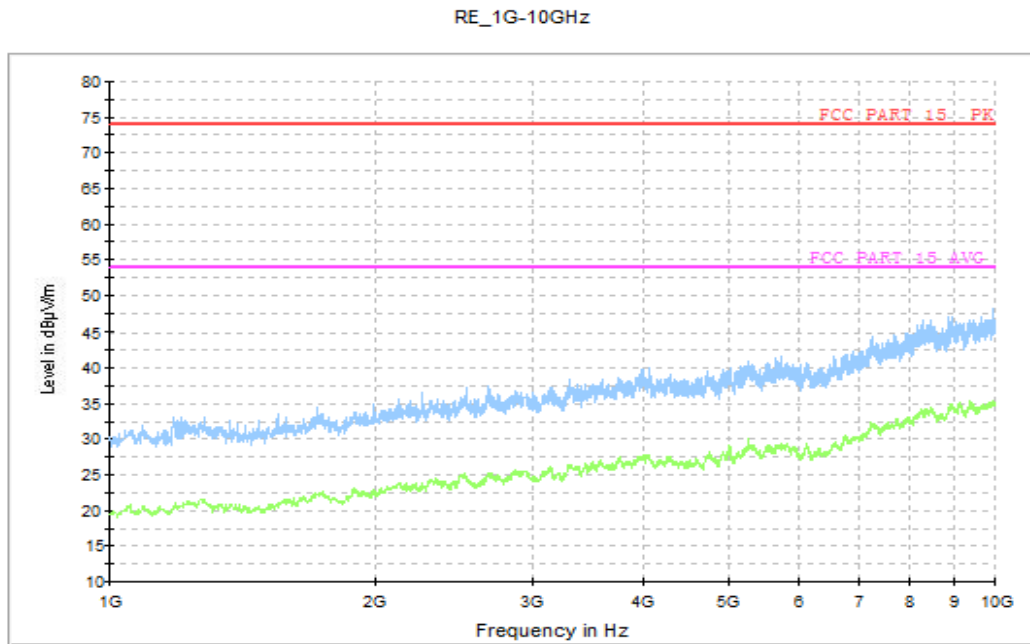


Figure A.2 Radiated Emission from 1GHz to 10GHz

Charging Mode, Set.2

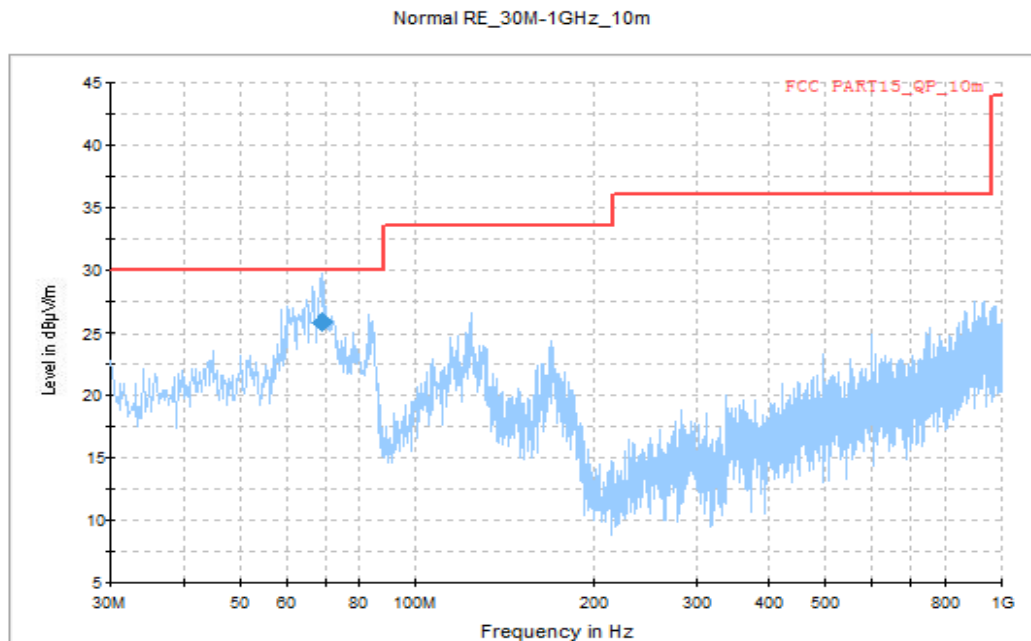


Figure A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
69.041250	25.9	275.0	V	0.0	-21.1	4.1	30.0

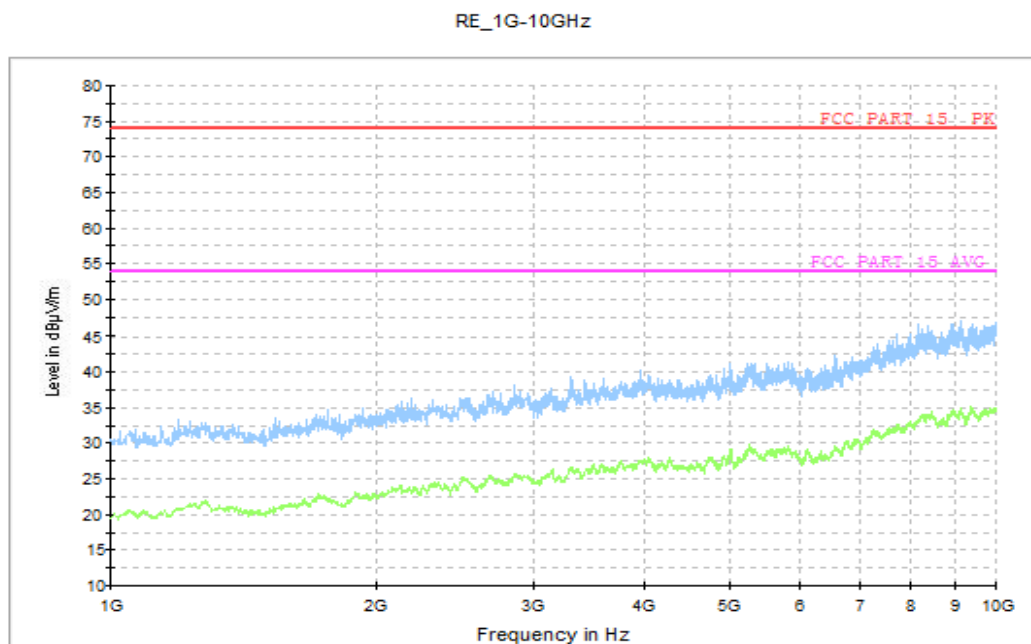


Figure A.4 Radiated Emission from 1GHz to 10GHz

USB Mode, Set.3

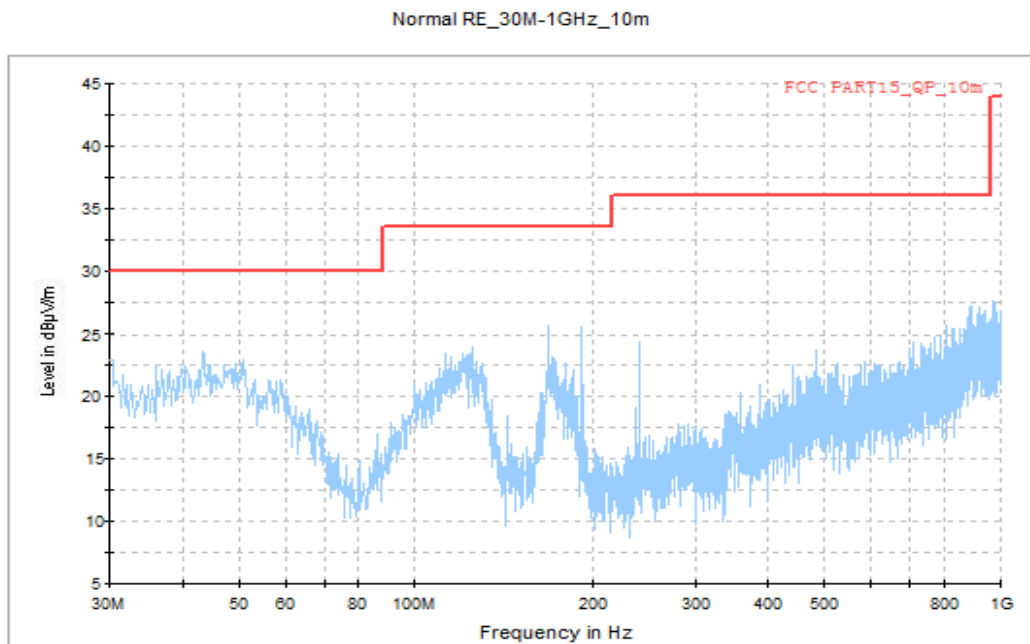


Figure A.5 Radiated Emission from 30MHz to 1GHz

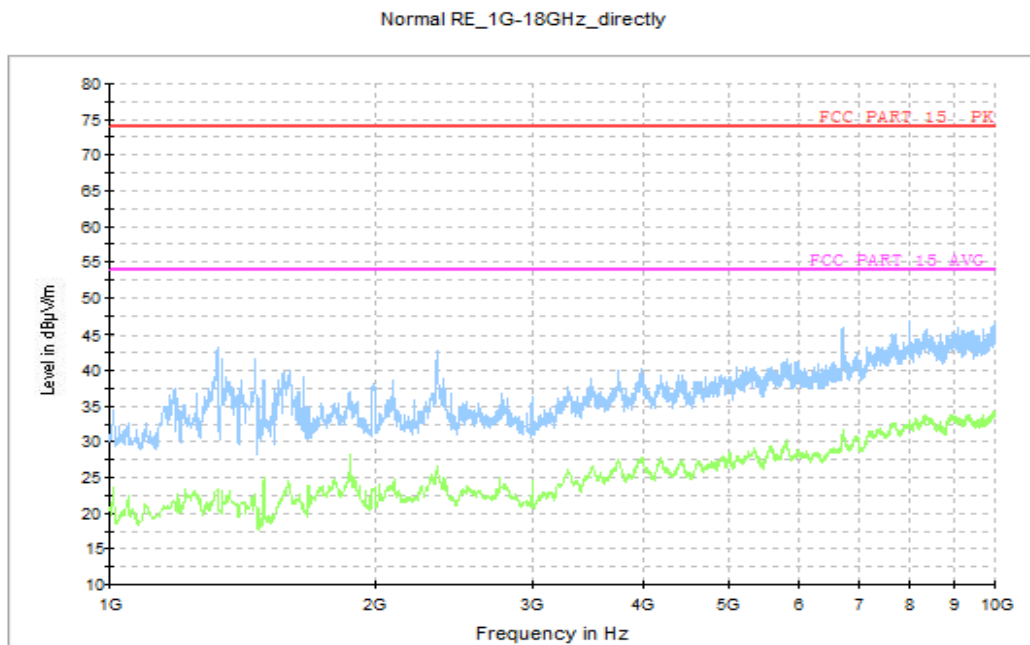


Figure A.6 Radiated Emission from 1GHz to10GHz

Charging Mode, Set.4

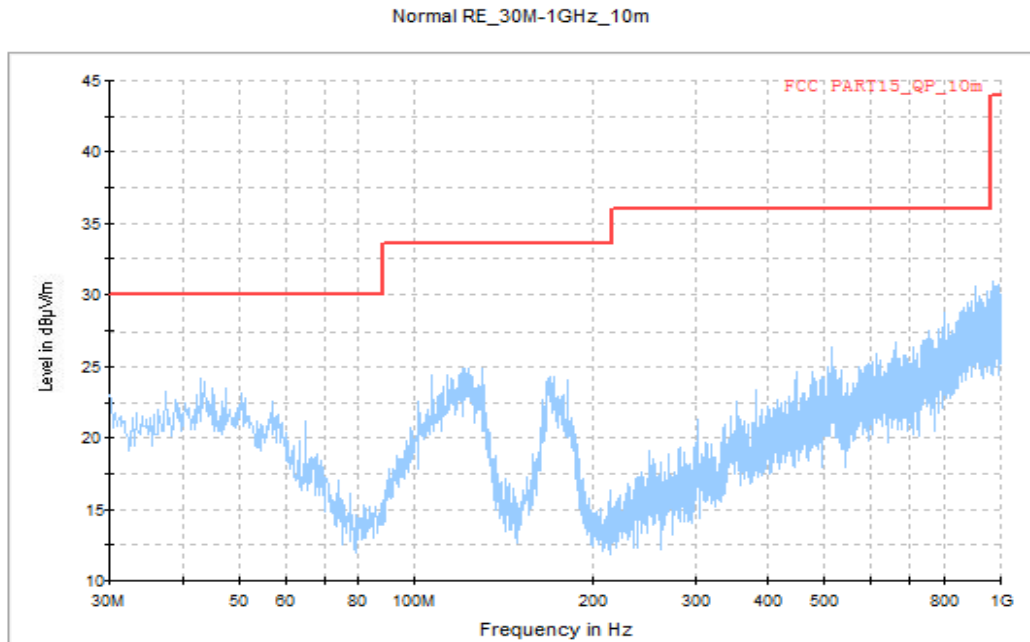


Figure A.7 Radiated Emission from 30MHz to 1GHz

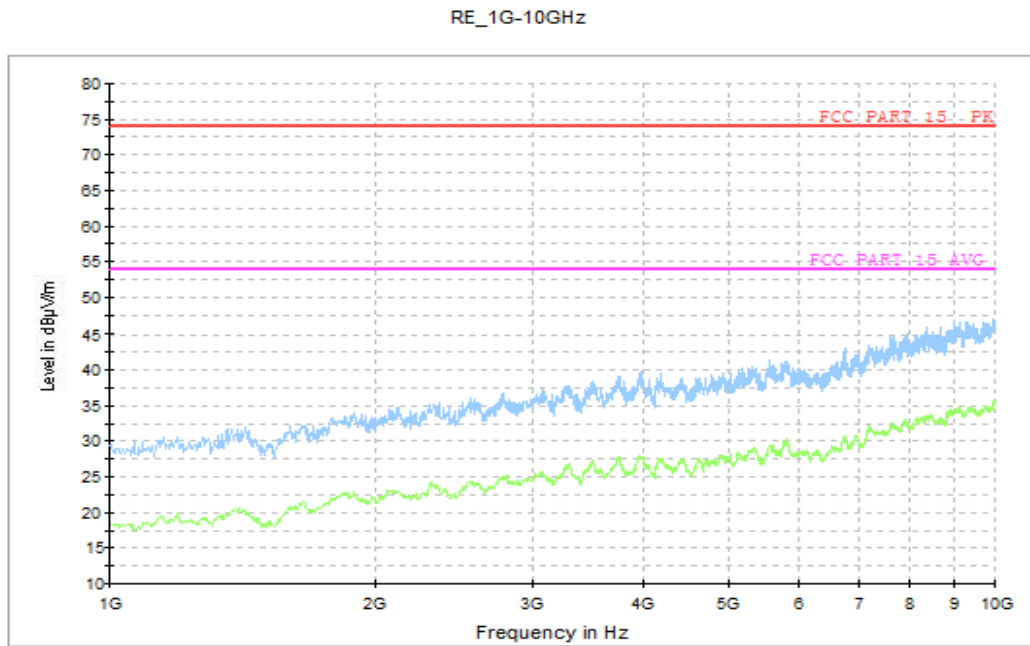


Figure A.8 Radiated Emission from 1GHz to 10GHz

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 - 2009, 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 OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

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 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: $U = 2.9 \text{ dB}$, $k=2$.

Charging Mode, Set.1

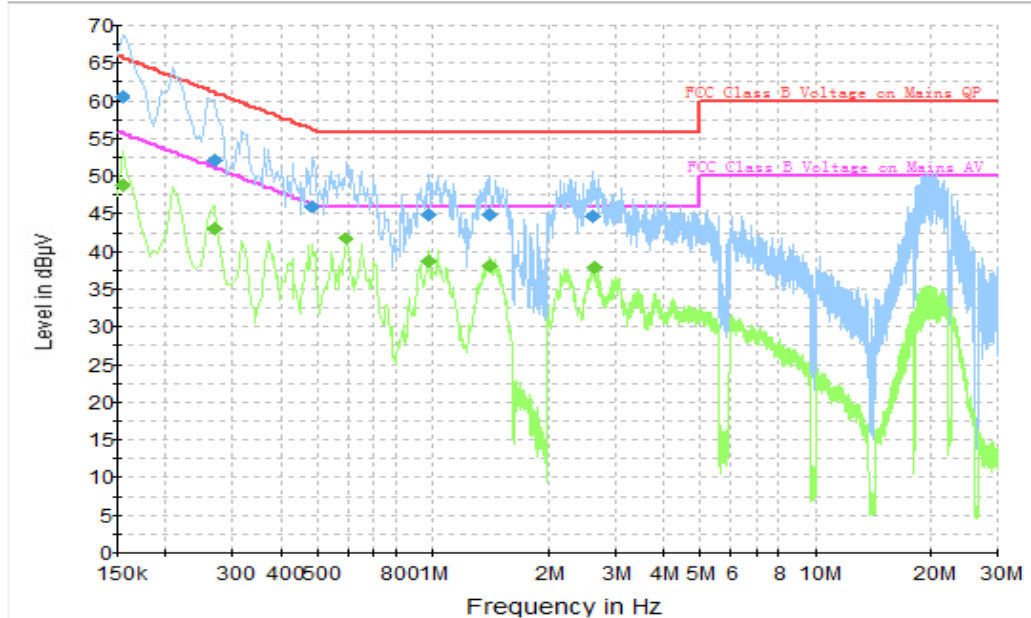


Figure A.9 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	60.5	2000.0	9.000	On	L1	19.9	5.2	65.8
0.267000	52.2	2000.0	9.000	On	L1	19.7	9.1	61.2
0.483000	46.1	2000.0	9.000	On	L1	19.8	10.2	56.3
0.973500	44.8	2000.0	9.000	On	L1	19.7	11.2	56.0
1.396500	44.9	2000.0	9.000	On	N	19.7	11.1	56.0
2.629500	44.8	2000.0	9.000	On	N	19.7	11.2	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	48.9	2000.0	9.000	On	L1	19.9	6.9	55.8
0.267000	43.1	2000.0	9.000	On	L1	19.7	8.1	51.2
0.591000	41.8	2000.0	9.000	On	L1	19.8	4.2	46.0
0.973500	38.9	2000.0	9.000	On	L1	19.7	7.1	46.0
1.405500	38.2	2000.0	9.000	On	L1	19.7	7.8	46.0
2.634000	38.0	2000.0	9.000	On	L1	19.7	8.0	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.2

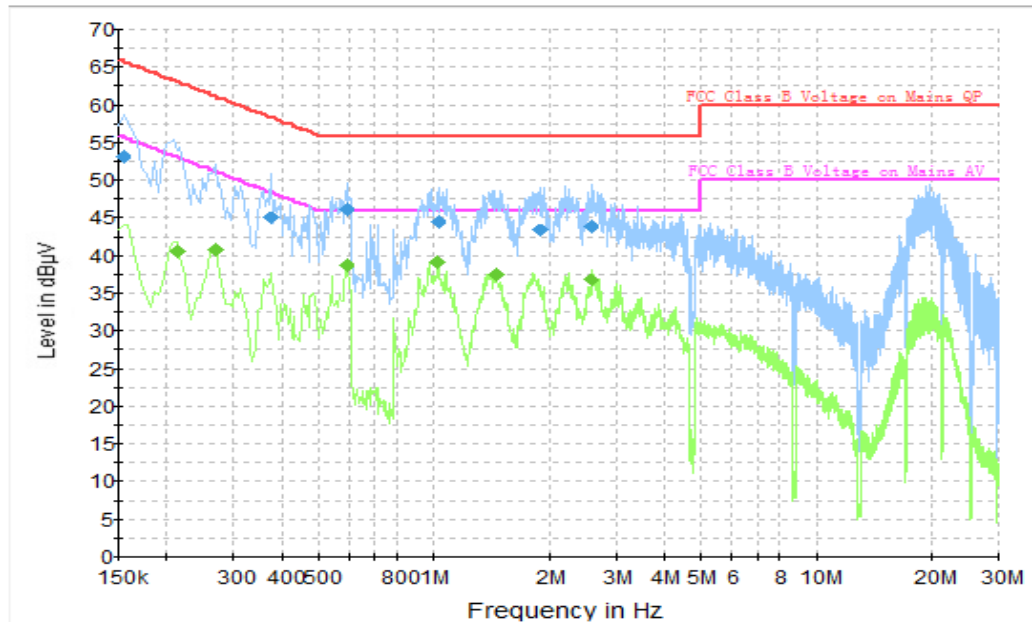


Figure A.10 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	53.2	2000.0	9.000	On	L1	19.9	12.6	65.8
0.375000	45.1	2000.0	9.000	On	N	19.8	13.3	58.4
0.591000	46.3	2000.0	9.000	On	N	19.8	9.7	56.0
1.023000	44.6	2000.0	9.000	On	L1	19.7	11.4	56.0
1.900500	43.5	2000.0	9.000	On	N	19.6	12.5	56.0
2.575500	43.9	2000.0	9.000	On	L1	19.7	12.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.213000	40.5	2000.0	9.000	On	L1	19.8	12.5	53.1
0.267000	40.8	2000.0	9.000	On	L1	19.7	10.4	51.2
0.591000	38.7	2000.0	9.000	On	N	19.8	7.3	46.0
1.018500	39.2	2000.0	9.000	On	L1	19.7	6.8	46.0
1.455000	37.5	2000.0	9.000	On	L1	19.7	8.5	46.0
2.575500	36.8	2000.0	9.000	On	L1	19.7	9.2	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

USB Mode, Set.3

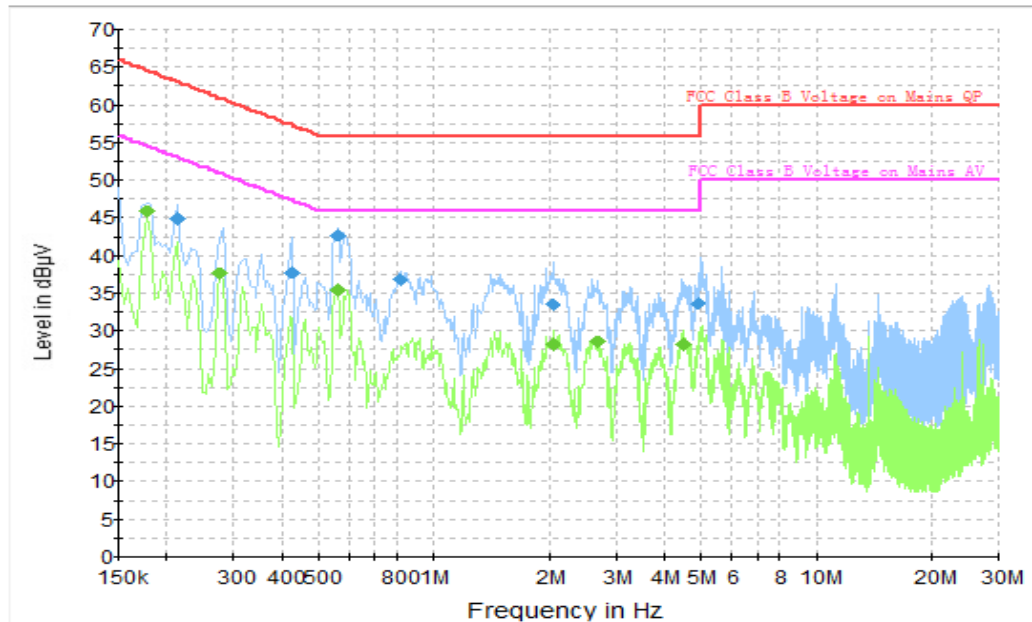


Figure A.11 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.213000	44.8	2000.0	9.000	On	N	19.8	18.2	63.1
0.424500	37.8	2000.0	9.000	On	L1	19.8	19.6	57.4
0.559500	42.8	2000.0	9.000	On	L1	19.8	13.2	56.0
0.816000	36.7	2000.0	9.000	On	N	19.8	19.3	56.0
2.040000	33.6	2000.0	9.000	On	N	19.6	22.4	56.0
4.911000	33.6	2000.0	9.000	On	L1	19.7	22.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.177000	45.8	2000.0	9.000	On	N	19.7	8.8	54.6
0.276000	37.6	2000.0	9.000	On	N	19.8	13.3	50.9
0.559500	35.5	2000.0	9.000	On	N	19.8	10.5	46.0
2.040000	28.3	2000.0	9.000	On	N	19.6	17.7	46.0
2.674500	28.6	2000.0	9.000	On	N	19.7	17.4	46.0
4.497000	28.2	2000.0	9.000	On	L1	19.6	17.8	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.4

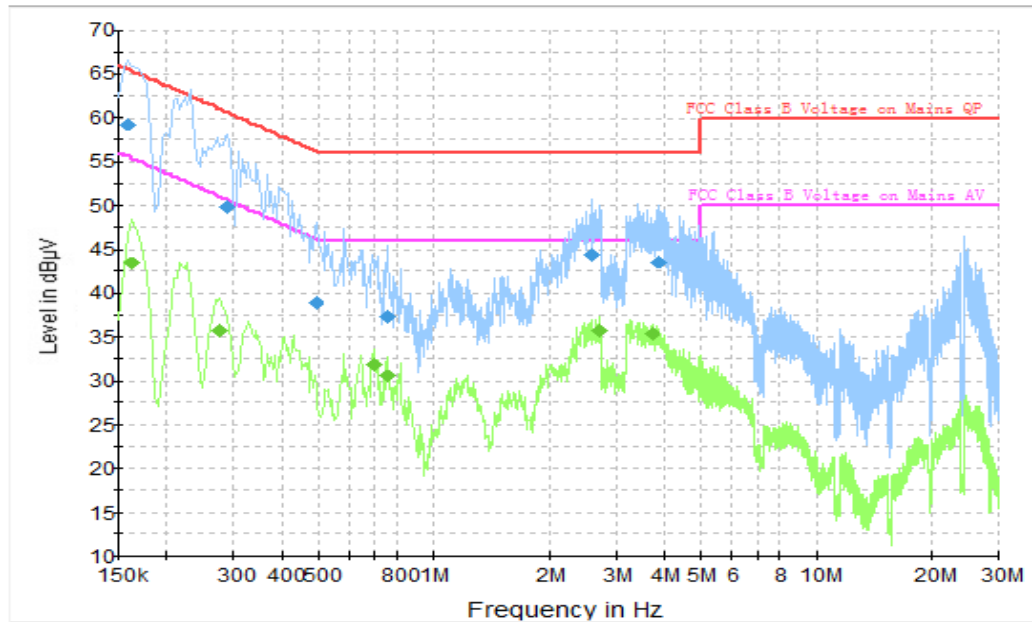


Figure A.12 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	59.3	2000.0	9.000	On	L1	19.7	6.2	65.5
0.289500	49.8	2000.0	9.000	On	L1	19.8	10.8	60.5
0.492000	38.9	2000.0	9.000	On	L1	19.8	17.2	56.1
0.757500	37.4	2000.0	9.000	On	N	19.8	18.6	56.0
2.598000	44.4	2000.0	9.000	On	L1	19.6	11.6	56.0
3.871500	43.5	2000.0	9.000	On	L1	19.7	12.5	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.163500	43.5	2000.0	9.000	On	L1	19.7	11.8	55.3
0.276000	35.7	2000.0	9.000	On	L1	19.8	15.2	50.9
0.699000	31.8	2000.0	9.000	On	N	19.8	14.2	46.0
0.757500	30.5	2000.0	9.000	On	N	19.8	15.5	46.0
2.715000	35.8	2000.0	9.000	On	L1	19.6	10.2	46.0
3.705000	35.3	2000.0	9.000	On	L1	19.7	10.7	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

END OF REPORT