

# No. I16Z40909-EMC01

for

**TCL Communication Ltd.** 

# HSUPA/HSDPA/UMTS Tri-band / GSM quadband/LTE Tri-band mobile phone

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Model Name: 5065N

FCC ID: 2ACCJA006

with

**Hardware Version: Proto** 

**Software Version: N57** 

Issued Date: 2016-05-18

#### 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
I16Z40909-EMC01	Rev.0	1st edition	2016-05-18



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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

Location 4: CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology

Development Area, Beijing, P. R. China 100176

#### 1.2. <u>Testing Environment</u>

Normal Temperature:  $15-35^{\circ}$ C Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2015-08-19
Testing End Date: 2016-05-13

1.4. Signature

张 颖

**Zhang Ying** 

(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: TCL Communication Ltd.

Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China. 201203

City: Shanghai Postal Code: 201203 Country: China

Contact Person: Gong Zhizhou

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Telephone: 0086-21-51798260
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#### 2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China. 201203

City: Shanghai Postal Code: 201203 Country: China

Telephone: 0086-21-51798260 Fax: 0086-21-61460602



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

#### 3.1. About EUT

Description HSUPA/HSDPA/UMTS Tri-band / GSM quadband/LTE Tri-band

mobile phone

Model Name 5065N

FCC ID 2ACCJA006

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	/	Proto	N57
EUT1	/	Proto	N57

<sup>\*</sup>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	1	1
AE2	Travel Charger	51633200004BYD	/
AE3	Travel Charger	51720100033AN	/
AE4	USB Cable	/	/
AE5	USB Cable	/	/
AE6	battery	/	/
AE7	battery	/	/
AE8	Travel Charger	51633200054BYD	/
AE9	Travel Charger	51720100039AN	/
AE10	battery	/	/
AE11	Travel Charger	/	/

#### AE1, AE6, AE7

Model CAC2000040C2

Manufacturer SCUD
Capacitance 2000mAh
Nominal voltage 3.8V

AE10

Model CAB2000060C1

Manufacturer BYD Capacitance 2000mAh

Nominal voltage /



AE2, AE8

Type CBA0067AG0C1

Manufacturer BYD Length of cable /

AE3, AE9

Type CBA0067AG0C4

Manufacturer Aohai

Length of cable

AE11

Model CBA0058AGAC2

Manufacturer TENPAO

Length of cable /

AE4

Type CDA3122002C1

Manufacturer Juwei
Length of cable 110cm

AE5

Type CDA3122002C2

Manufacturer Shenhua Length of cable 99cm

#### 3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.4	EUT4 + AE1/AE6/AE7 + AE2 + AE4	Charger
Set.5	EUT4 + AE1/AE6/AE7 + AE3 + AE5	Charger
Set.6	EUT4 + AE1/AE6/AE7 + AE4	USB
Set.7	EUT1 + AE1/AE2 + AE4 + AE11	Charger

Note: HSUPA/HSDPA/UMTS Tri-band / GSM quadband/LTE Tri-band mobile phone 5065N manufactured by TCL Communication Ltd is a variant model based on 5065W for conformance test. According to the declaration of changes, the following test items and test modes were performed for an additional travel charger:

Test Item	Mode or Feature	EUT Set-up
Conducted Continuous Emission	Charger	Set.7
Radiated Continuous Emission	Charger	Set.7

Other results are cited from the initial model. The report number for initial model is I15Z42002-EMC01.

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



# 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	10-1-15
		Edition
ANSI C63.4	Methods of Measurement of Radio-Noise	2014
	Emissions from Low - Voltage Electrical and	
	Electronic Equipment in the Range of 9 kHz to 40	
	GHz	



## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-1** (23 meters × 17meters × 10meters) did not exceed following limits along the EMC testing:

ggg.			
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 <sub>VSWR</sub> )	Between 0 and 6 dB, from 1GHz to 6GHz		
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz		

**Semi/Full-anechoic chamber SAC-2** (10 meters  $\times$  6.7meters  $\times$  6.1meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S <sub>VSWR</sub> )	Between 0 and 6 dB, from 1GHz to 18GHz
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:		
Р		Pass
Verdict Column	NA	Not applicable
F		Fail
Location Column	1/2/3/4	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	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	Р	1, 4
2	Conducted Emission	15.107(a)	B.2	Р	1, 4



# 7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	EMI Antenna	VULB 9163	9163-301	Schwarzbeck	2017-12-16	3 Years
2.	Test Receiver	ESCI 7	100948	R&S	2016-07-07	1 Year
3.	EMI Antenna	3115	6914	ETS-Lindgren	2016-12-15	3 Years
4.	Test Receiver	ESU26	100235	R&S	2017-03-02	1 Year
5.	LISN	ENV216	101200	R&S	2016-07-07	1 Year
6.	Universal Radio Communication Tester	CMU500	143008	R&S	2016-12-09	1 Year
7.	PC	OPTIPLEX 380	2X1YV2X	DELL	/	/
8.	Monitor	E1709Wc	CN-OJ672H-6 4180-9BF-1CR L	DELL	/	/
9.	Printer	P1606dn	VNC3L52122	HP	/	/
10.	Keyboard	L100	CN-ORH656-6 5890-03S-041 Y	DELL	/	/
11.	Mouse	M-UAR	LZ013HC1YLV	DELL	/	/
12.	EMI Antenna	VULB 9163	9163-514	Schwarzbeck	2017-11-24	3 Years
13.	EMI Antenna	3117	00139065	ETS-Lindgren	2017-09-21	3 Years
14.	Test Receiver	ESU26	100376	R&S	2016-10-29	1 Year
15.	Universal Radio Communication Tester	CMU500	127406	R&S	2017-01-27	1 Year
16.	Test Receiver	ESCI	100766	R&S	2017-03-30	1 Year
17.	LISN	ESH2-Z5	829991/012	R&S	2017-04-11	1 Year



### **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, charging mode of MS and GPS mode of MS) at distances of 10 meters or 3 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 USB mode and charging mode.

For the charging mode, the EUT is keeping on playing MP3 file.

For the USB 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	Field strength limit (μV/m)				
(MHz)	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:

Result =  $P_{Mea}$  +  $A_{Rpl}$  =  $P_{Mea}$  +  $G_A$  +  $G_{PL}$ 

Where

G<sub>A</sub>: Antenna factor of receive antenna

G<sub>PL</sub>: Path Loss

P<sub>Mea</sub>: Measurement result on receiver.

Measurement uncertainty (worst case): U = 4.3 dB, k=2.

#### Measurement results for Set.4:

#### **Charging Mode/Average detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	$P_{Mea}(dB\mu V)$	Polarity
17964.300	43.6	-17.7	45.6	15.700	V
17984.133	43.5	-17.7	45.6	15.600	Н
17969.967	43.5	-17.7	45.6	15.600	Н
17996.600	43.5	-17.7	45.6	15.600	V
17958.633	43.4	-17.7	45.6	15.500	V
17975.067	43.4	-17.7	45.6	15.500	V

#### **Charging Mode/Peak detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity
17999.400	55.1	-17.7	45.6	27.200	V
17896.300	54.7	-18.5	45.6	27.600	Н
17815.267	54.6	-18.5	45.6	27.500	Н
17991.500	54.6	-17.7	45.6	26.700	V
17998.867	54.4	-17.7	45.6	26.500	V
17982.433	54.4	-17.7	45.6	26.500	Н



#### Measurement results for Set.5:

#### **Charging Mode/Average detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	$P_{Mea}(dB\mu V)$	Polarity
17995.467	43.7	-17.7	45.6	15.800	V
17992.633	43.4	-17.7	45.6	15.500	Н
17973.933	43.4	-17.7	45.6	15.500	Н
17964.300	43.4	-17.7	45.6	15.500	V
17981.867	43.4	-17.7	45.6	15.500	V
17992.067	43.4	-17.7	45.6	15.500	Н

## **Charging Mode/Peak detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity
17994.333	54.7	-17.7	45.6	26.800	V
17992.067	54.7	-17.7	45.6	26.800	V
17988.667	54.5	-17.7	45.6	26.600	Н
17983.000	54.4	-17.7	45.6	26.500	V
17815.267	54.3	-18.5	45.6	27.200	Н
17934.267	54.2	-17.7	45.6	26.300	Н

#### Measurement result for Set.6:

#### **USB Mode/Average detector**

Frequency(MHz)	Result(dBµV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>mea</sub> (dBµV)	Polarity
17998.300	43.6	-17.7	45.6	15.700	Н
17984.133	43.4	-17.7	45.6	15.500	V
17993.200	43.3	-17.7	45.6	15.400	Н
17961.467	43.2	-17.7	45.6	15.300	Н
17972.233	43.2	-17.7	45.6	15.300	V
17997.167	43.2	-17.7	45.6	15.300	V

#### **USB Mode/ Peak detector**

Frequency(MHz)	Result(dBµV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>mea</sub> (dBµV)	Polarity
17998.300	55.6	-17.7	45.6	27.700	Н
17962.033	55.6	-17.7	45.6	27.700	V
17997.167	55.0	-17.7	45.6	27.100	Н
17968.833	54.4	-17.7	45.6	26.500	V
17974.500	54.3	-17.7	45.6	26.400	Н
17879.300	54.2	-18.5	45.6	27.100	Н



#### Measurement results for Set.7 (distance = 3m):

#### **Charging Mode/Average detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity
17633.250	46.4	-13.0	41.2	18.205	Н
17631.000	46.4	-14.9	41.2	20.118	Н
17709.000	46.4	-13.0	41.2	18.205	V
17691.750	46.4	-13.0	41.2	18.205	Н
17670.000	46.4	-13.0	41.2	18.205	V
17678.250	46.3	-13.0	41.2	18.105	V

#### **Charging Mode/Peak detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity
17706.000	59.1	-13.0	41.2	30.905	Н
17661.750	58.2	-13.0	41.2	30.005	V
17693.250	58.2	-13.0	41.2	30.005	V
17787.750	58.1	-13.0	41.0	30.105	V
17797.500	58.1	-13.0	41.0	30.105	V
17543.250	58.0	-14.9	41.2	31.718	Н

Note: The measurement results of Set.4, Set.5, Set.6 and Set.7 showed here are worst cases of the combinations of different batteries and USB cables.





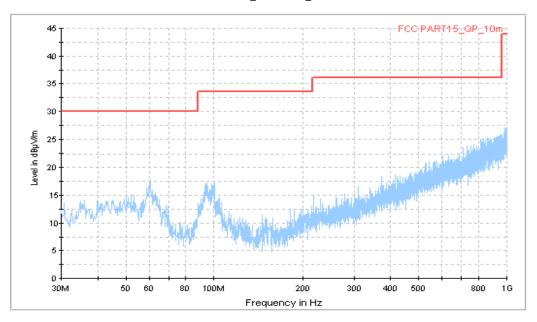


Figure A.1 Radiated Emission from 30MHz to 1GHz

#### Normal RE\_1G-18GHz\_directly

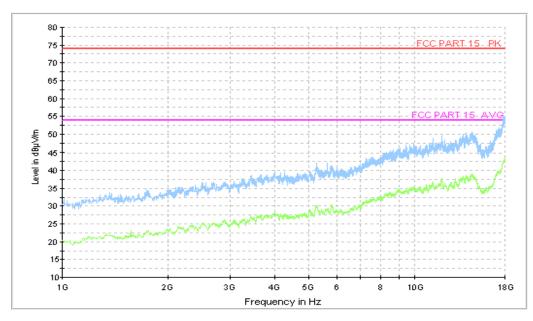


Figure A.2 Radiated Emission from 1GHz to 18GHz





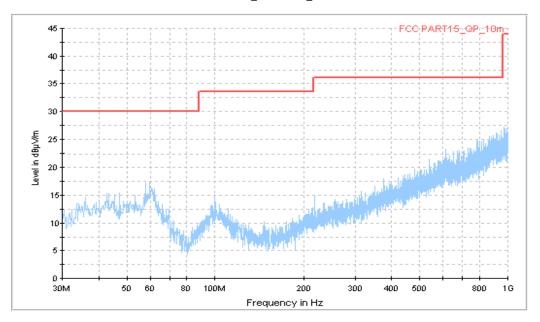


Figure A.3 Radiated Emission from 30MHz to 1GHz

#### Normal RE\_1G-18GHz\_directly

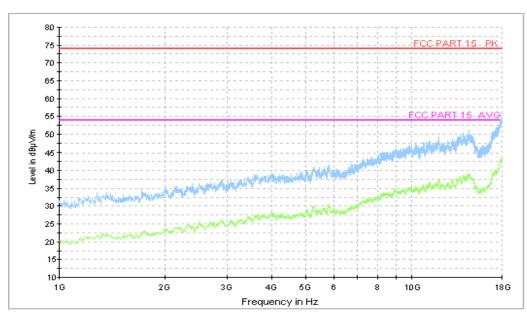


Figure A.4 Radiated Emission from 1GHz to 18GHz



#### **USB Mode, Set.6**

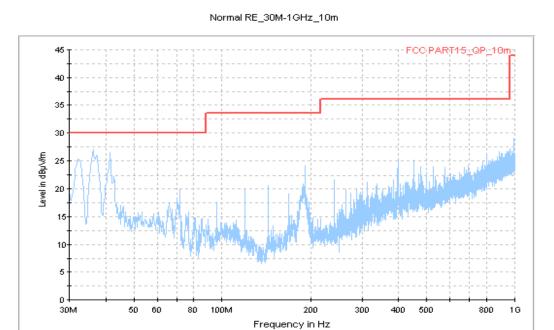


Figure A.5 Radiated Emission from 30MHz to 1GHz

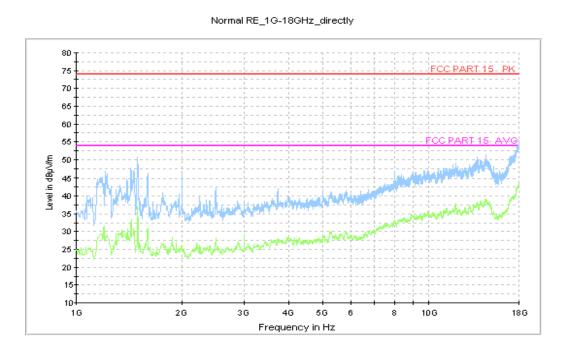


Figure A.6 Radiated Emission from 1GHz to 18GHz





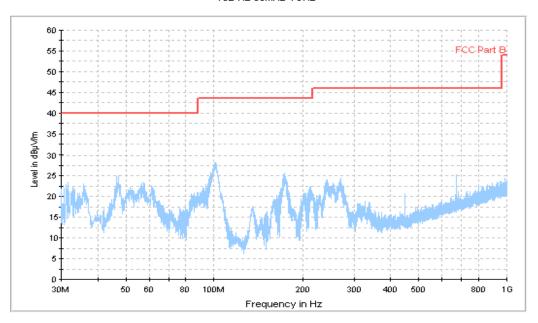


Figure A.7 Radiated Emission from 30MHz to 1GHz



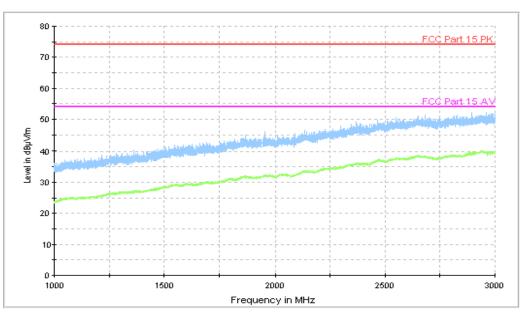


Figure A.8 Radiated Emission from 1GHz to 3GHz



15b RE - 3GHz-18GHz

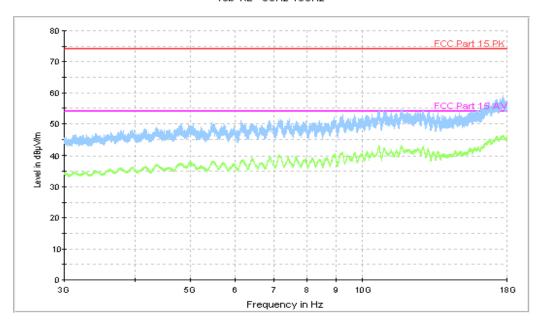


Figure A.9 Radiated Emission from 3GHz to 18GHz



## 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 USB mode and charging mode.

For the charging mode, the EUT is keeping on playing MP3 file.

For the USB 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

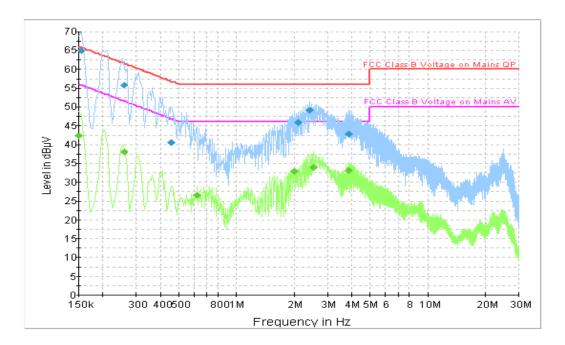
RBW/IF bandwidth	Sweep Time(s)		
9kHz	1		



#### A.2.5 Measurement Results

Measurement uncertainty: *U*= 2.9 dB, *k*=2.

#### Charging Mode, Set.4



**Figure A.10 Conducted Emission** 

#### **Final Result 1**

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.154500	64.9	L1	19.9	0.9	65.8
0.258000	55.8	L1	19.8	5.7	61.5
0.456000	40.5	L1	19.8	16.2	56.8
2.103000	45.9	L1	19.6	10.1	56.0
2.418000	49.1	L1	19.6	6.9	56.0
3.853500	42.8	L1	19.7	13.2	56.0

#### Final Result 2

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.150000	42.3	L1	20.1	13.7	56.0
0.258000	38.0	N	19.8	13.5	51.5
0.627000	26.6	N	19.8	19.4	46.0
1.999500	32.9	L1	19.6	13.1	46.0
2.517000	33.9	L1	19.6	12.1	46.0
3.853500	33.1	L1	19.7	12.9	46.0

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



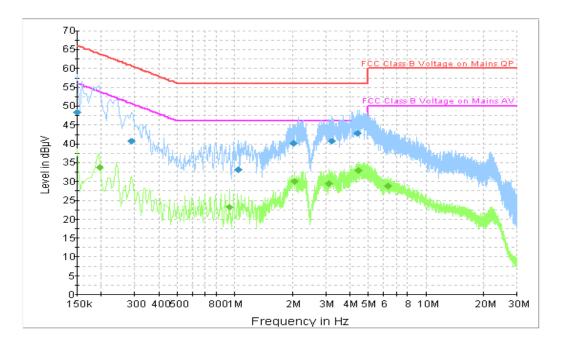


Figure A.11 Conducted Emission

#### **Final Result 1**

· ····································							
Frequency	QuasiPeak	Line	Corr.	Margin	Limit		
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)		
0.150000	48.3	L1	20.1	17.7	66.0		
0.289500	40.7	L1	19.8	19.9	60.5		
1.041000	33.0	L1	19.7	23.0	56.0		
2.031000	40.1	L1	19.6	15.9	56.0		
3.223500	40.7	L1	19.7	15.3	56.0		
4.407000	42.7	L1	19.7	13.3	56.0		

#### Final Result 2

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.195000	33.7	L1	19.8	20.1	53.8
0.937500	23.2	L1	19.7	22.8	46.0
2.067000	30.0	L1	19.6	16.0	46.0
3.133500	29.5	L1	19.6	16.5	46.0
4.434000	32.8	L1	19.7	13.2	46.0
6.310500	28.8	L1	19.7	21.2	50.0

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



#### **USB Mode, Set.6**

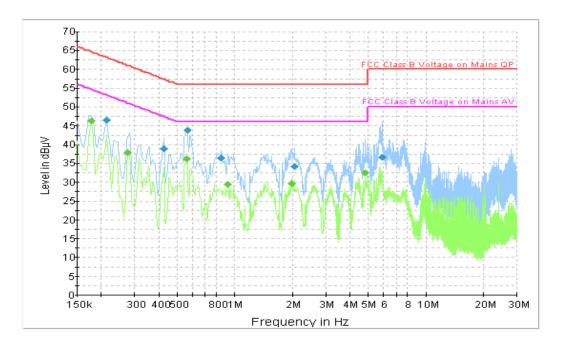


Figure A.12 Conducted Emission

#### **Final Result 1**

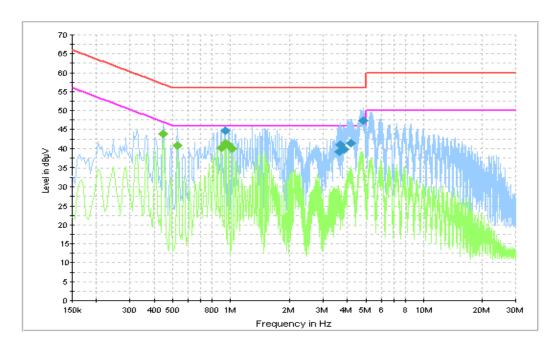
That Noone !							
Frequency	QuasiPeak	Line	Corr.	Margin	Limit		
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)		
0.213000	46.3	N	19.8	16.7	63.1		
0.424500	38.9	N	19.8	18.5	57.4		
0.564000	43.7	L1	19.8	12.3	56.0		
0.847500	36.4	N	19.8	19.6	56.0		
2.049000	34.1	L1	19.6	21.9	56.0		
5.896500	36.5	L1	19.7	23.5	60.0		

#### Final Result 2

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.177000	46.2	N	19.7	8.5	54.6
0.276000	37.9	N	19.8	13.0	50.9
0.559500	36.1	L1	19.8	9.9	46.0
0.919500	29.3	L1	19.7	16.7	46.0
1.981500	29.5	N	19.6	16.5	46.0
4.821000	32.6	N	19.7	13.4	46.0

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





**Figure A.13 Conducted Emission** 

#### **Final Result 1**

Frequency	QuasiPeak	Line	Corr.	Margin	Limit	
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)	
0.937501	44.6	L1	10.2	11.4	56.0	
3.651001	39.2	N	10.3	16.8	56.0	
3.691501	40.9	N	10.3	15.1	56.0	
3.858001	39.8	N	10.3	16.2	56.0	
4.191001	41.3	L1	10.3	14.7	56.0	
4.816501	47.3	L1	10.4	8.7	56.0	

#### Final Result 2

Frequency	CAverage	Line	Corr.	Margin	Limit		
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)		
0.447001	43.9	L1	10.2	3.0	46.9		
0.532501	40.7	L1	10.2	5.3	46.0		
0.897001	40.2	L1	10.2	5.8	46.0		
0.937501	41.5	L1	10.2	4.5	46.0		
0.978001	40.9	L1	10.2	5.1	46.0		
1.018501	39.9	L1	10.2	6.1	46.0		

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

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