

TEST REPORT No. I17Z60835-EMC01

for

TCL Communication Ltd.

LTE / UMTS / GSM mobile phone

Model Name: 5090A

FCC ID: 2ACCJH076

with

Hardware Version: PIO

Software Version: v5F42

Issued Date: 2017-06-27

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I17Z60835-EMC01	Rev.0	1 st edition	2017-06-27



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1. Test Laboratory

1.1. Testing Location

Location BDA: CTTL(kangding Road)

Address: No. A18, Kangding Road, Yizhuang, Beijing,

P. R. China 100176

CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,

P. R. China 100191

1.2. Testing Environment

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

1.3. Project data

Testing Start Date: 2017-06-08
Testing End Date: 2017-06-26

1.4. Signature

张 颖

Zhang Ying

(Prepared this test report)

Wang Junqing

(Reviewed this test report)

Liu Baodian

Deputy Director of the laboratory

(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
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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
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Country: P. R. China
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 zhizhou.gong@tcl.com

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 0086-21-31363544

 Fax:
 0086-21-61460602



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

3.1. About EUT

Length of cable

Description LTE / UMTS / GSM mobile phone

Model Name 5090A

FCC ID 2ACCJH076

Extreme vol. Limits 3.5VDC to 4.2VDC (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
EUT3	014952000200978	PIO	v5F42

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

3.3. <u>Inter</u>	nai identification	of AE used during t	the test
AE ID*	Description	SN	Remarks
AE1	battery	/	/
AE2	battery	/	/
AE3	Travel charger	/	17TCT-CH-0602
AE4	Travel charger	/	17TCT-CH-0646
AE5	Travel charger	/	17TCT-CH-0615
AE6	USB Cable	/	17TCT-CH-0185
AE7	USB Cable	/	17TCT-CH-0282
AE1			
Model		CAC3860001C1	
Manufact	urer	BYD	
Capacita	nce	/	
Nominal	voltage	/	
AE2			
Model		CAC3860002CC	
Manufact	urer	TCL Hyperpower	
Capacita	nce		
Nominal	voltage		
AE3			
Model		CBA0061AGAC1	
Manufact	urer	BYD	
Length of	cable	/	
AE4			
Model		CBA0061AGAC2	
Manufact	urer	Ten Pao	



AE5

Model CBA0059AGAC2

Manufacturer Ten Pao

Length of cable /

AE6

Model CDA0000024C2

Manufacturer henhua

Length of cable /

AE7

Model CDA0000024C8

Manufacturer PUAN

Length of cable /

Note: The USB cables are shielded.

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.7	EUT3 + AE3 + AE6	Charger
Set.8	EUT3 + AE4 + AE7	Charger
Set.9	EUT3 + AE5 + AE7	Charger
Set.10	EUT3 + AE6	USB
Set.11	EUT4 + AE7	USB

^{*}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.

ReferenceTitleVersionFCC Part 15, Subpart BRadio frequency devices - Unintentional Radiators2016 EditionANSI C63.4American National Standard for2014

Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Note: The test methods have no deviation with standards.



5. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-2 (10 meters × 6.7 meters × 6.1 meters) did not exceed following limits along the EMC testing:

minus anong are arms tooming.	
Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2M Ω
Ground system resistance	<1Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S _{VSWR})	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

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	Р	BDA
2	Conducted Emission	15.107(a)	B.2	Р	huayuan North Road



7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESCI 7	100948	R&S	2017-07-05	1 year
2	Test Receiver	ESCI	100766	R&S	2018-04-06	1 year
3	Universal Radio Communication Tester	CMW500	127406	R&S	2018-02-19	1 year
5	LISN	ENV216	101200	R&S	2017-07-10	1 year
6	EMI Antenna	VULB 9163	9163-514	Schwarzbeck	2017-11-24	3 years
7	EMI Antenna	3117	00139065	ETS-Lindgren	2017-09-21	3 years

Test Item	Test Software and Version	Software Vendor	Test operator
Radiated Continuous Emission	EMC32 V9.01	R&S	Yang Fei
Conducted Emission	EMC32 V8.52.0	R&S	Shi Suolan



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 of MS) at distances of 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 charging mode. During the test MS is connected to a charger in the case of charging mode.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

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_A: Antenna factor of receive antenna

G_{PL}: Path Loss

P_{Mea}: Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 4.86dB, 1GHz-18GHz: 5.26dB, *k*=2.

Measurement results for Set.7:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17802.750	41.31	-23.1	41.0	23.46	V
17811.750	17811.750 41.28		41.0	23.36	Н
17807.250	807.250 41.20		41.0	23.27	Н
17808.750	41.20	-23.0	41.0	23.25	V
17813.250	17813.250 41.19		40.9	23.29	V
17800.500 41.16		-23.1	41.0	23.34	Н

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17816.250	52.5	-23.1	40.9	34.63	Н
17807.250	52.3	-23.0	41.0	34.36	Н
17823.000	52.1	-23.2	40.9	34.34	Н
17817.000	51.9	-23.1	40.9	34.07	V
17813.250	17813.250 51.9		40.9	34.01	Н
17819.250	17819.250 51.9		40.9	34.07	Н



Measurement results for Set.8:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17803.500	41.49	-23.1	41.0	23.63	Н
17806.500	806.500 41.43 -23		41.0	23.52	Н
17810.250	41.32	-23.0 41.0 23.37		23.37	V
17815.500) 41.31 -23.1 40.9 2		23.44	V	
17811.750	60 41.27 -23.0 41.0 23.34		V		
17820.000	7820.000 41.22		40.9	23.42	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17800.500	53.3	-23.1	41.0	35.49	H
17811.000	17811.000 52.3		41.0	34.37	V
17795.250	52.3	52.3 -23.2		34.52	Н
17745.000	52.2	-24.0	41.0	35.24	Н
17813.250 52.1		-23.0	40.9	34.22	Н
17730.000 52.1		-24.3	41.0	35.40	Н



Measurement results for Set.9:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17806.500	41.40	-23.0	41.0	23.49	Н
17802.750 41.34 -23.1 41.0 23.49		41.34 -23.1 41.0		23.49	V
17805.750	41.29	-23.1	41.0	23.39	V
17799.750	41.26 -23.2 41.0		23.45	V	
17811.000	311.000 41.22		41.0	23.29	Н
17815.500	17815.500 41.16		40.9	23.29	Н

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17812.500	53.7	-23.0	40.9	35.78	Н
17798.250	17798.250 53.0		41.0	35.16	П
17768.250	52.9	-23.7	41.0	35.55	V
17829.750	52.6	-23.3	40.9	34.90	V
17805.750	17805.750 52.6		41.0	34.66	V
17794.500	17794.500 52.3		41.0	34.55	Н



Measurement results for Set.10:

USB Mode/Average detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17803.500	41.37	-23.1	41.0	23.50	Н
17809.500	17809.500 41.23		41.0	23.27	Н
17808.750	17808.750 41.14		41.0	23.19	Н
17823.750	323.750 41.13		40.9	23.37	Н
17806.500 41.12		-23.0	41.0	23.20	Н
5877.752	5877.752 38.39		35.1	35.45	V

USB Mode/Peak detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17805.750	53.1	-23.1	41.0	35.16	Н
17803.500	7803.500 52.8		41.0	34.96	V
17805.000	52.5	-23.1	41.0	34.58	Н
17852.250	52.4	-23.6	40.9	35.03	V
17811.000	17811.000 52.3		41.0	34.34	V
5877.750	45.5	-32.2	35.1	42.57	Н



Measurement results for Set.11:

USB Mode/Average detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17808.750	41.41	-23.0	41.0	23.46	V
17814.750	17814.750 41.25		40.9	23.37	V
17811.000	41.25	-23.0	41.0	23.31	V
17806.500	.500 41.20		41.0	23.29	Н
17817.750	17817.750 41.19		40.9	23.35	Н
5877.420	5877.420 38.33		35.1	35.39	Н

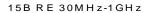
USB Mode/Peak detector

Frequency(MHz)	Result(dB μV/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dBµV)	Polarity
17802.750	53.4	-23.1	41.0	35.53	Н
17847.000	17847.000 52.3		40.9	34.93	V
17840.250	52.2	-23.4	40.9	34.64	Н
17829.000	52.0	-23.3	40.9	34.37	V
5877.023	.023 45.3		35.1	42.40	V
7790.250	7790.250 46.8		36.0	41.93	Н

Sample calculation: Peak detector, 17802.750MHz

Result = P_{Mea} (35.53 dB μ V)+ G_A (41.0 dB/m)+ G_{PL} (-23.1dB) =53.4dB μ V/m





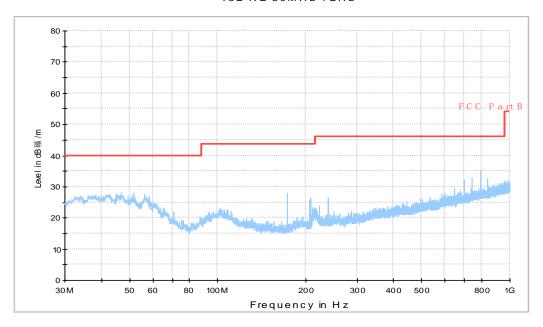


Figure A.1 Radiated Emission from 30MHz to 1GHz



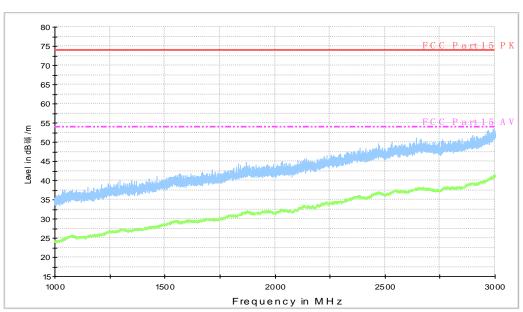
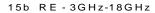


Figure A.2 Radiated Emission from 1GHz to 3GHz





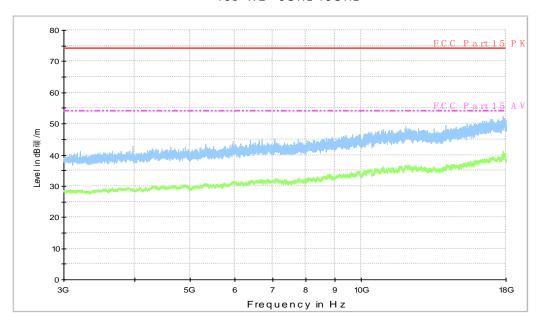


Figure A.3 Radiated Emission from 3GHz to 18GHz

15B RE 30MHz-1GHz

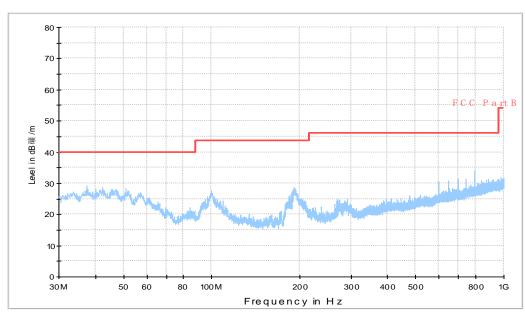


Figure A.4 Radiated Emission from 30MHz to 1GHz





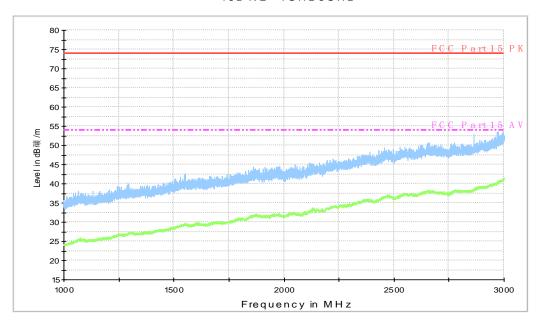
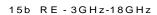


Figure A.5 Radiated Emission from 1GHz to 3GHz



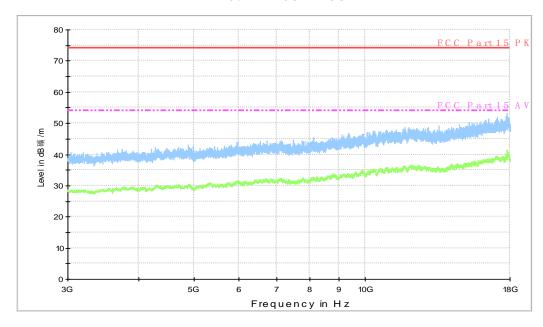


Figure A.6 Radiated Emission from 3GHz to 18GHz



15B RE 30MHz-1GHz

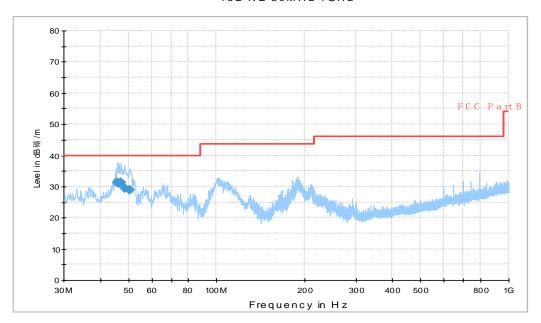


Figure A.7 Radiated Emission from 30MHz to 1GHz

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	$(dB \mu V/m)$	(cm)		(deg)	(dB)	(dB)	$(dB\mu V/m)$
45.811000	31.4	100.0	V	48.0	-17.7	8.6	40.0
46.490000	31.0	100.0	V	-42.0	-17.8	9.0	40.0
47.169000	31.4	100.0	V	-42.0	-17.9	8.6	40.0
48.430000	29.4	100.0	V	135.0	-18.1	10.6	40.0
50.467000	29.0	100.0	V	49.0	-18.3	11.0	40.0



15B RE - 1GHz-3GHz

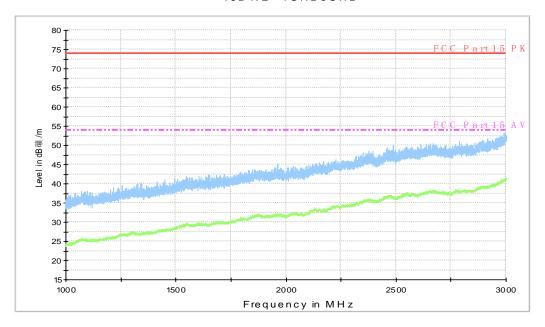


Figure A.8 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

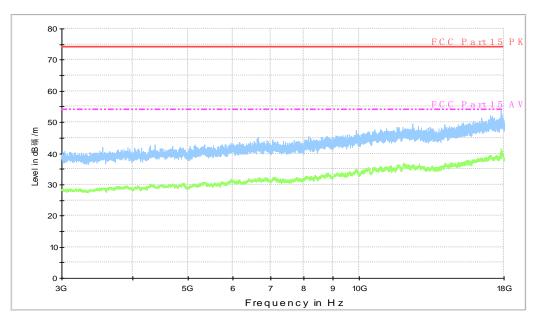
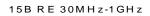


Figure A.9 Radiated Emission from 3GHz to 18GHz



USB Mode, Set.10



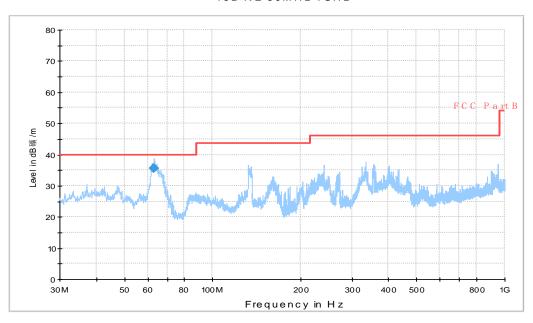


Figure A.10 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	$(dB\mu V/m)$	(cm)		(deg)	(dB)	(dB)	$(dB\mu V/m)$
63.271000	35.6	100.0	V	287.0	-19.9	4.4	40.0

15B RE - 1GHz-3GHz

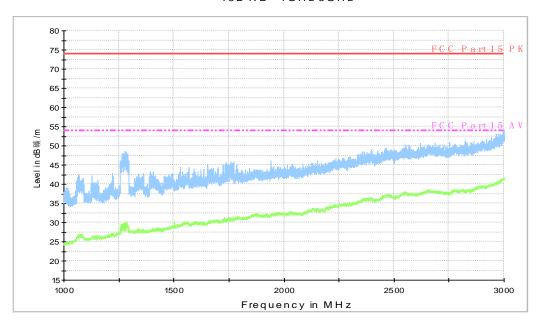


Figure A.11 Radiated Emission from 1GHz to 3GHz





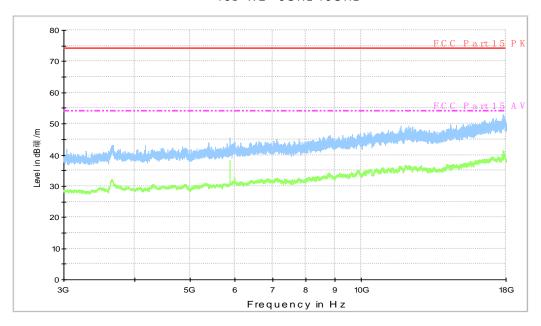
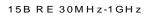


Figure A.12 Radiated Emission from 3GHz to 18GHz



USB Mode, Set.11



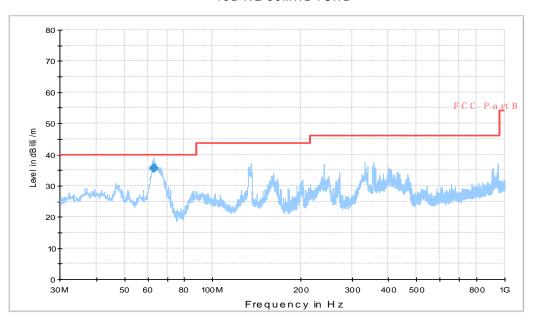


Figure A.13 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	$(dB\mu V/m)$	(cm)		(deg)	(dB)	(dB)	$(dB\mu V/m)$
62.883000	35.6	100.0	V	310.0	-19.7	4.4	40.0

15B R E - 1GHz-3GHz

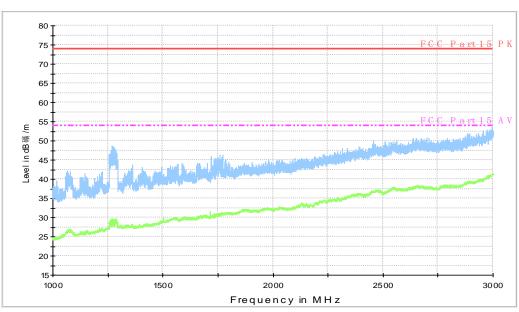


Figure A.14 Radiated Emission from 1GHz to 3GHz





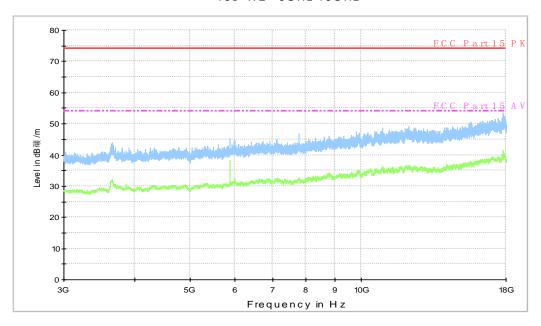


Figure A.15 Radiated Emission from 3GHz to 18GHz



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 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 (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= 3.38 dB, k=2.

Charging Mode, Set.7

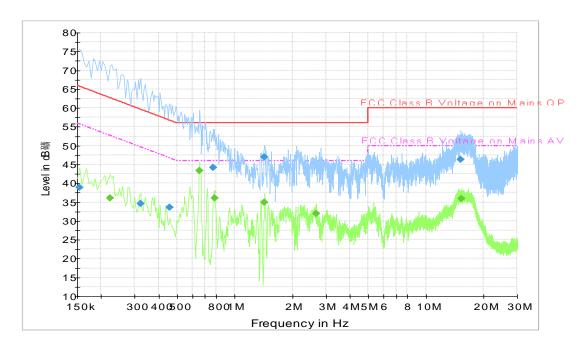


Figure A.16 Conducted Emission

Final Result 1

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)
0.154500	38.9	L1	20.1	26.9	65.8
0.321000	34.7	L1	19.8	25.0	59.7
0.456000	33.6	L1	19.9	23.1	56.8
0.771000	44.2	L1	19.8	11.8	56.0
1.428000	47.0	L1	19.7	9.0	56.0
15.184500	46.3	L1	19.8	13.7	60.0

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)
0.222000	36.1	L1	19.8	16.6	52.7
0.654000	43.3	L1	19.8	2.7	46.0
0.784500	36.0	L1	19.8	10.0	46.0
1.432500	34.9	L1	19.7	11.1	46.0
2.665500	31.9	L1	19.4	14.1	46.0
15.351000	35.8	L1	19.8	14.2	50.0



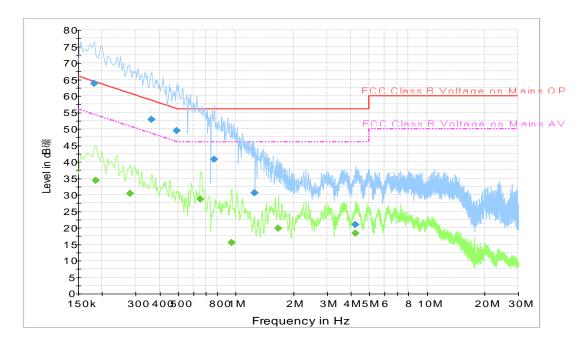


Figure A.17 Conducted Emission

Final Result 1

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Frequency	QuasiPeak	Line	Corr.	Margin	Limit	
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)	
0.181500	63.8	L1	19.8	0.6	64.4	
0.361500	52.8	N	19.8	5.9	58.7	
0.492000	49.4	L1	19.9	6.7	56.1	
0.771000	40.8	N	19.8	15.2	56.0	
1.257000	30.5	N	19.7	25.5	56.0	
4.222500	21.0	L1	19.6	35.0	56.0	

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)
0.186000	34.3	L1	19.8	19.9	54.2
0.280500	30.3	L1	19.8	20.5	50.8
0.654000	28.7	L1	19.8	17.3	46.0
0.951000	15.4	L1	19.8	30.6	46.0
1.671000	19.7	L1	19.7	26.3	46.0
4.218000	18.3	L1	19.6	27.7	46.0



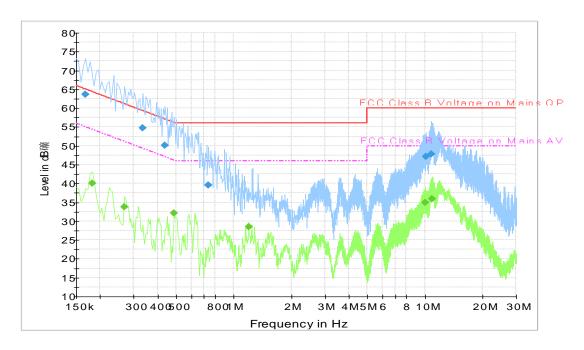


Figure A.18 Conducted Emission

Final Result 1

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)
0.168000	63.6	N	19.9	1.4	65.1
0.334500	54.8	L1	19.9	4.5	59.3
0.438000	50.1	N	19.9	7.0	57.1
0.739500	39.6	N	19.8	16.4	56.0
10.140000	47.2	L1	19.7	12.8	60.0
10.828500	47.8	L1	19.7	12.2	60.0

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)
0.181500	40.1	N	19.8	14.3	54.4
0.267000	33.7	L1	19.8	17.5	51.2
0.487500	32.2	N	19.9	14.1	46.2
1.194000	28.5	N	19.7	17.5	46.0
10.023000	34.9	L1	19.7	15.1	50.0
10.909500	35.9	L1	19.7	14.1	50.0



USB Mode, Set.10

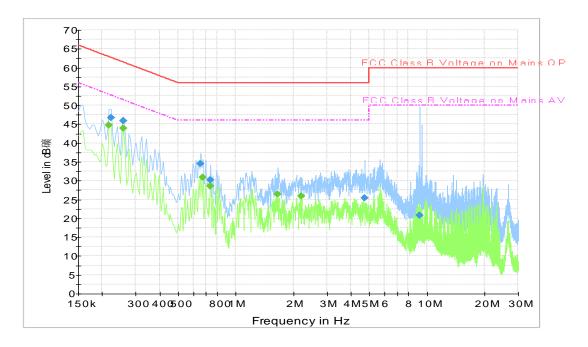


Figure A.19 Conducted Emission

Final Result 1

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	$(dB \mu V)$
0.222000	46.7	N	19.8	16.0	62.7
0.258000	45.8	N	19.8	15.7	61.5
0.654000	34.5	N	19.8	21.5	56.0
0.739500	30.2	N	19.8	25.8	56.0
4.713000	25.5	L1	19.6	30.5	56.0
9.145500	20.8	N	19.7	39.2	60.0

Frequency (MHz)	CAverage (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.217500	44.7	N	19.8	8.2	52.9
0.258000	43.9	N	19.8	7.6	51.5
0.672000	30.8	N	19.8	15.2	46.0
0.739500	28.6	N	19.8	17.4	46.0
1.657500	26.4	N	19.7	19.6	46.0
2.193000	25.9	L1	19.3	20.1	46.0



USB Mode, Set.11

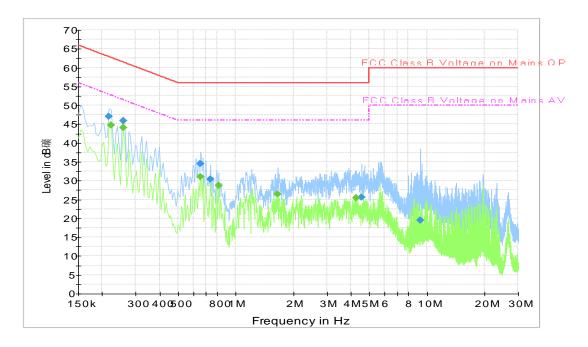


Figure A.20 Conducted Emission

Final Result 1

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Frequency	QuasiPeak	Line	Corr.	Margin	Limit		
(MHz)	(dB µV)		(dB)	(dB)	$(dB \mu V)$		
0.217500	47.0	N	19.8	15.9	62.9		
0.258000	46.0	N	19.8	15.5	61.5		
0.654000	34.6	N	19.8	21.4	56.0		
0.739500	30.3	N	19.8	25.7	56.0		
4.564500	25.6	L1	19.6	30.4	56.0		
9.249000	19.4	N	19.7	40.6	60.0		

Final Result 2

Frequency	CAverage	Line	Corr.	Margin	Limit
(MHz)	(dB µV)		(dB)	(dB)	(dB µV)
0.222000	44.7	N	19.8	8.0	52.7
0.258000	44.0	N	19.8	7.5	51.5
0.654000	31.1	N	19.8	14.9	46.0
0.811500	28.7	N	19.8	17.3	46.0
1.657500	26.4	N	19.7	19.6	46.0
4.285500	25.4	N	19.6	20.6	46.0

END OF REPORT