# **FCC Test Report**

APPLICANT : TCL Communication Ltd.

**EQUIPMENT** : CDMA EVDO BC0/BC1/LTE 2-band Mobile phone

BRAND NAME : ALCATEL ONETOUCH

MODEL NAME : A622GL

FCC ID : 2ACCJB026

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION** : Certification

The product was received on Oct. 15, 2015 and testing was completed on Oct. 29, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager

Approved by: Jones Tsai / Manager

### SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB026

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Report Issued Date: Dec. 08, 2015

**Testing Laboratory** 

Report No.: FC5O1507

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5O1507	Rev. 01	Initial issue of report	Dec. 04, 2015
FC5O1507	Rev. 02	Update report for removing mode name "A622VL" which is not supported hotspot mode.	Dec. 08, 2015

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	10.23 dB at
					0.440 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	6.11 dB at
					314.000 MHz

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## 1. General Description

## 1.1. Applicant

#### **TCL Communication Ltd.**

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

### 1.2. Manufacturer

#### TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

### 1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	CDMA EVDO BC0/BC1/LTE 2-band Mobile phone
Brand Name	ALCATEL ONETOUCH
Model Name	A622GL
FCC ID	2ACCJB026
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 2.4GHz 802.11b/g/n HT20
EOT Supports Radios application	Bluetooth v3.0 + EDR/Bluetooth v4.1 LE
IMEI Code	Conduction: 354160070026293
livici code	Radiation: 354160070026285
HW Version	PIO
SW Version	vBAV4
EUT Stage	Production Unit

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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## 1.4. Product Specification subjective to this standard

Product Specification subjective to this standard				
Tx Frequency	CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz			
Rx Frequency	CDMA2000 BC0 : 869.70 MHz ~ 893.31 MHz CDMA2000 BC1 : 1931.25 MHz ~ 1988.75 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz			
Antenna Type	WWAN: LDS Antenna WLAN: LDS Antenna Bluetooth: LDS Antenna GPS: Semi-IFA Antenna			
Type of Modulation	CDMA2000 : QPSK CDMA2000 1xEV-DO : QPSK/8PSK LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK			

## 1.5. Specification of Accessory

	Specification of Accessory					
	Brand Name	ALCATEL ONETOUCH	Model Name	UC11US		
AC Adapter	Power Rating	I/P: 100-240Vac, 200mA, O/P: 5Vdc, 1000mA				
	P/N	CBA0057AG0C2				
Battery	Brand Name	ALCATEL ONETOUCH	Model Name	TLp025A2		
Buttory	Power Rating	3.8Vdc, 2500mAh				
USB Cable 1	Brand Name	ALCATEL ONETOUCH	<b>Model Name</b>	CDA3122005C1		
USB Cable I	Signal Line Type	1.0meter,shielded cable,	without ferrite	core		
USB Cable 2	Brand Name	ALCATEL ONETOUCH	Model Name	CDA3122001C2		
USB Cable 2	Signal Line Type	1.5meter, shielded cable,	without ferrite	core		

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### 1.6. Modification of EUT

No modifications are made to the EUT during all test items.

### 1.7. Test Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili		
Test Site Location	Town, Nanshan District, Shenzhen, Guangdong, P. R. China		
rest site Location	TEL: +86-755-8637-9589		
	FAX: +86-755-8637-9595		
Took Site No	Sporton Site No.		
Test Site No.	CO01-SZ		

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan		
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China		
	TEL: +86-755- 3320-2398		
Test Site No.	Sporton Site No.	FCC Registration No.	
rest Site No.	03CH01-SZ	831040	

## 1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2009

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Test Condition		
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)	$\boxtimes$	$\boxtimes$	Note 1
2.	Data application transferred mode (EUT with notebook)	$\boxtimes$	$\boxtimes$	$\boxtimes$

#### Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz</li>

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.

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Test Items	EUT Configure Mode	Function Type
		Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter) + Earphone + Camera (Back) <fig.1></fig.1>
		Mode 2: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter) + Earphone + MPEG4 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 3: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 (Data Link with Notebook) + GPS Rx <fig.2></fig.2>
		Mode 4: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter) + Earphone + Camera (Front) <fig.1></fig.1>
		Mode 5: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Charging from Adapter) + Earphone + MPEG4 <fig.1></fig.1>
	M 1GHz 1/2	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter) + Earphone + Camera (Back) <fig.1></fig.1>
		Mode 2: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter) + Earphone + MPEG4 <fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 3: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 (Data Link with Notebook) + GPS Rx <fig.2></fig.2>
		Mode 4: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter) + Earphone + Camera (Front) <fig.1></fig.1>
		Mode 5: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 2 (Data Link with Notebook) + GPS Rx <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 (Data Link with Notebook) + GPS Rx <fig.2></fig.2>

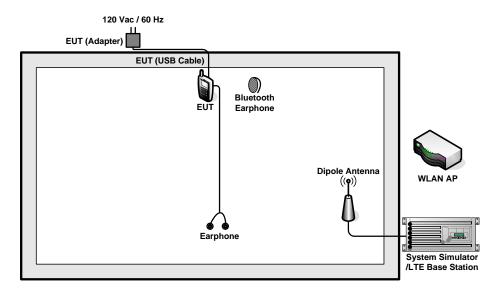
### Remark:

- 1. The worst case of AC is mode 5; and the USB Link mode of AC is mode 3; the test data of these modes were reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

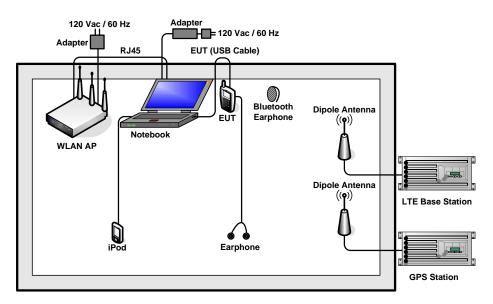
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## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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## 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m
5.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
8.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	iPod	Apple	MC525ZP/A	FCC DoC	Shielded, 1.0 m	N/A
10.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
11.	iPod Earphone	Apple	N/A	N/A	Unshielded, 1.6 m	N/A
12.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A

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### 2.4. EUT Operation Test Setup

The EUT was in CDMA2000 or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Notebook and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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### 3. Test Result

### 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1 Limits of AC Conducted Emission

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 in the following table.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

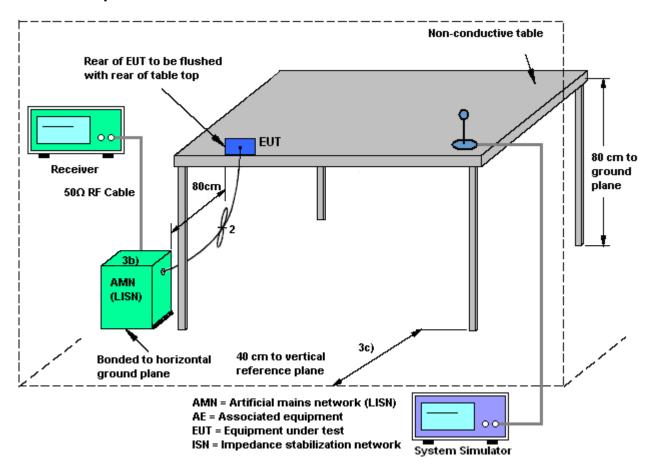
#### 3.1.3 Test Procedure

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least
   80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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### 3.1.4 Test Setup

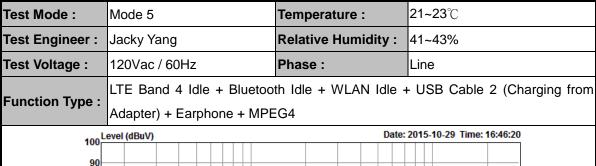


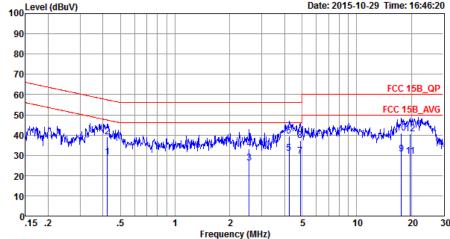
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### 3.1.5 Test Result of AC Conducted Emission





Site : CO01-SZ

Condition: FCC 15B\_QP LISN\_L\_20150304 LINE

Project : (FC)501507 Mode : Mode 5

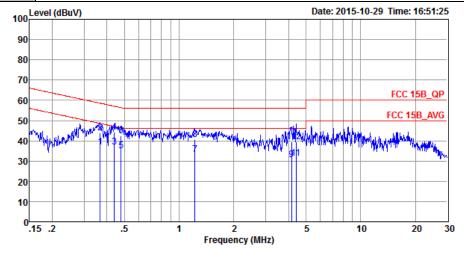
IMEI : 354160070026293

	. 001101	,,,,,,,,						
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∇	dB	dBu∇	dBu∇	dB	dB	
1	0.42	29.14	-18.23	47.37	18.40	0.57	10.17	Average
2	0.42	39.04	-18.33	57.37	28.30	0.57	10.17	QP
3	2.55	26.21	-19.79	46.00	15.50	0.51	10.20	Average
4	2.55	33.11	-22.89	56.00	22.40	0.51	10.20	QP
5 4	4.25	31.05	-14.95	46.00	20.20	0.62	10.23	Average
6	4.25	39.45	-16.55	56.00	28.60	0.62	10.23	QP
7	4.90	29.67	-16.33	46.00	18.79	0.64	10.24	Average
8	4.90	37.37	-18.63	56.00	26.49	0.64	10.24	QP
9	17.66	30.52	-19.48	50.00	19.09	0.84	10.59	Average
10	17.66	41.12	-18.88	60.00	29.69	0.84	10.59	QP
11	19.74	29.60	-20.40	50.00	18.10	0.87	10.63	Average
12	19.74	40.70	-19.30	60.00	29.20	0.87	10.63	QP

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Test Mode :	Mode 5	Temperature :	21~23℃				
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Function Type	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Charging from						
Function Type :	Adapter) + Earphone + MPEG4						



Site : CO01-SZ

Condition: FCC 15B\_QP LISN\_N\_20150304 NEUTRAL

Project : (FC)501507 Mode : Mode 5

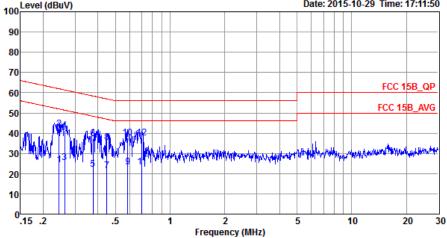
IMEI : 354160070026293

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_	MHz	dBu∇	dB	dBu∀	dBu∀	dB	dB	
1	0.37	36.84	-11.72	48.56	26.10	0.56	10.18	Average
2	0.37	43.94	-14.62	58.56	33.20	0.56	10.18	QP
3 *	0.44	36.84	-10.23	47.07	26.11	0.57	10.16	Average
4	0.44	44.14	-12.93	57.07	33.41	0.57	10.16	QP
5	0.48	34.96	-11.40	46.36	24.20	0.60	10.16	Average
6	0.48	42.36	-14.00	56.36	31.60	0.60	10.16	QP
7	1.22	33.12	-12.88	46.00	22.40	0.56	10.16	Average
8	1.22	40.52	-15.48	56.00	29.80	0.56	10.16	QP
9	4.16	30.56	-15.44	46.00	19.70	0.63	10.23	Average
10	4.16	39.36	-16.64	56.00	28.50	0.63	10.23	QP
11	4.41	31.37	-14.63	46.00	20.50	0.64	10.23	Average
12	4.41	39.37	-16.63	56.00	28.50	0.64	10.23	OP

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Test Mode :	Mode 3	Temperature :	21~23℃			
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
Function Type	LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 (Data					
Function Type :	Link with Notebook) + GPS	Rx				
100 <sup>Le</sup>	evel (dBuV)	Date:	2015-10-29 Time: 17:11:50			
90						



Site : CO01-SZ Condition: FCC 15B\_QP LISN\_L\_20150304 LINE

Project : (FC) 501507 : Mode 3

: 354160070026293

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1	0.24	24.19	-27.76	51.95	13.39	0.55	10.25	Average
2	0.24	41.89	-20.06	61.95	31.09	0.55	10.25	QP
3	0.26	25.38	-25.96	51.34	14.60	0.55	10.23	Average
4	0.26	41.18	-20.16	61.34	30.40	0.55	10.23	QP
5	0.38	22.22	-26.12	48.34	11.49	0.55	10.18	Average
6	0.38	37.32	-21.02	58.34	26.59	0.55	10.18	QP
7	0.45	21.47	-25.42	46.89	10.70	0.61	10.16	Average
8	0.45	35.47	-21.42	56.89	24.70	0.61	10.16	QP
9	0.59	23.36	-22.64	46.00	12.60	0.61	10.15	Average
10	0.59	37.56	-18.44	56.00	26.80	0.61	10.15	QP
11	0.70	23.09	-22.91	46.00	12.40	0.54	10.15	Average
12 *	0.70	37.59	-18.41	56.00	26.90	0.54	10.15	QP

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FCC Test Report

Test Mode :	Mode 3			Ten	Temperature : 2°			<b>23</b> ℃	
Test Engineer :	Jacky Yang			Rela	Relative Humidity :			13%	
Test Voltage :	120Vac / 60Hz			Pha	se :		Neut	ral	
Function Type :	LTE Band Link with N				le + WL	AN Idle -	- Earph	none + USB	Cable 1 (Dat
100 Le	vel (dBuV)					Dat	e: 2015-1	0-29 Time: 17:09:	23
90									
80									
70								FCC 15B_Q	D
60	_	-							
50	0.11	-						FCC 15B_AV	<u>G</u>
40		mk. i							
30		1	Level 11 to 1	di tradicionali	Ad Labor telephone fills.	Andread Section 1	Mary Hart	Anaday water bus profession of	<u>w</u>
20	7	7"	9 11 1 7 7 1	Manager Park	հայ միական անհա	Author and Market	A Transfer		
10									
0 <mark>.15</mark>	5 .2	.5	1		2	5	10	20	30
				Frequ	ency (MHz)	)			
Site	: CO01-SZ	OD 11	CM M 2011	-0204 ME	TTDAT				
Project	: FCC 15B : (FC) 501		JN_N_201.	JUJUT NE	JIKAL				
Mode	: Mode 3								
IMEI	: 3541600	700262	93 Over	Limit	Read	LISN	Cable		
	Freq	Level	Limit	Line		Factor		Remark	
	MHz	dBu∇	dB	dBu∀	dBu∀	dB	dB		
1	0.24	26.40	-25.82	52.22	15.61	0.54	10.25	Average	
2				62.22	31.21	0.54	10.25		
3				51.29	16.20	0.57		Average	
4			-19.79	61.29	30.70	0.57	10.23		
5 6			-25.05 -21.75	49.00 59.00	13.19 26.49	0.57 0.57	10.19	Average	
7			-21.73	47.81	12.70	0.55		Average	
8			-21.79				10.17		
9			-21.86					Average	
			-17.66				10.15		
10 *									
10 * 11	0.66	23.51	-22.49	46.00	12.80	0.56	10.15	Average	

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#### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

#### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level  $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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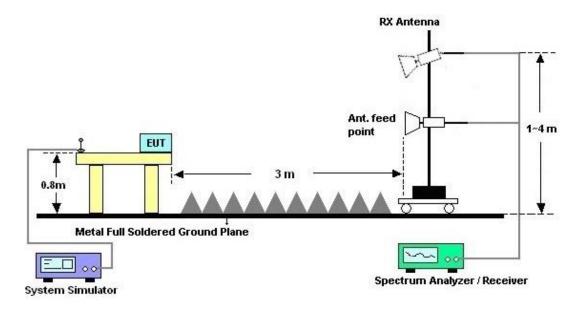
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### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz

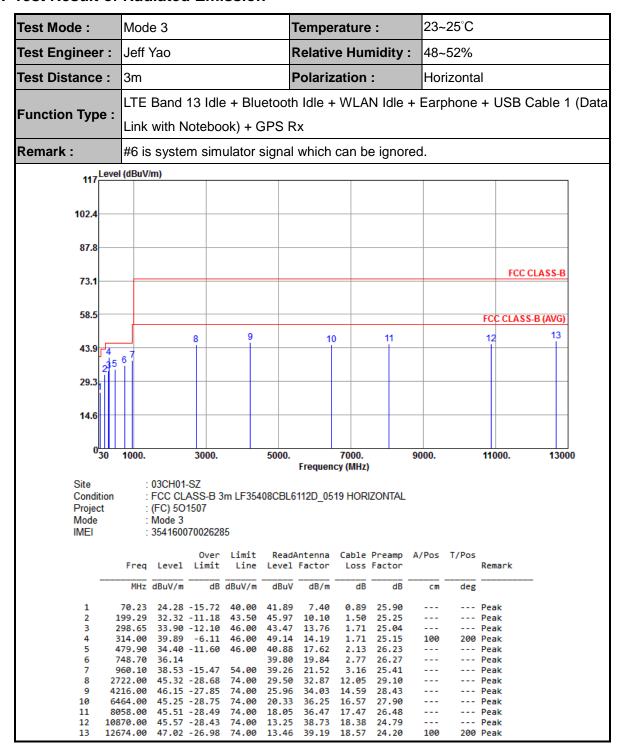


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#### 3.2.5. Test Result of Radiated Emission

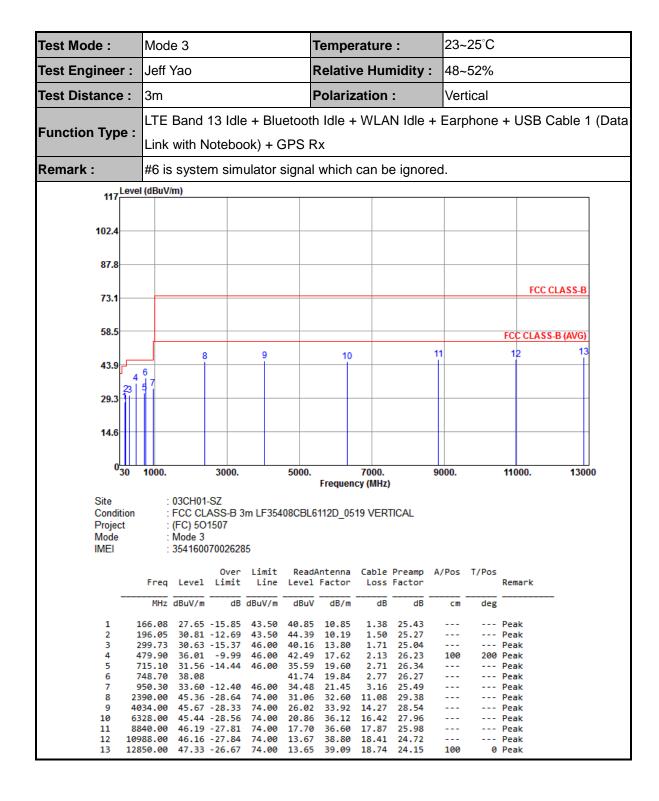


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## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Oct. 29, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Oct. 29, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Oct. 29, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	Oct. 29, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Oct. 29, 2015	Oct. 19, 2016	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Oct. 18, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz;M ax 30dBm	Jun. 07, 2015	Oct. 18, 2015	Jun. 06, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Oct. 18, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Oct. 18, 2015	Jan. 19, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz ~3000MHz / 30 dB	Jan. 28, 2015	Oct. 18, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Oct. 18, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Oct. 18, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 18, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 18, 2015	NCR	Radiation (03CH01-SZ)

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## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

	4
Measuring Uncertainty for a Level of	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3UB

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	4 0 d D
Confidence of 95% (U = 2Uc(y))	4.8dB

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