# **FCC Test Report**

APPLICANT : TCL Communication Ltd.

EQUIPMENT : GSM Quad-band / UMTS Quad-band / LTE

hepta-band mobile phone

BRAND NAME : alcatel MODEL NAME : 6055B

FCC ID : 2ACCJA015

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product was received on Jan. 15, 2016 and testing was completed on Apr. 08, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

**Prepared by: James Huang / Manager** 

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

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Report Version : Rev. 01

Testing Laboratory 2627

Report No.: FC611504

Report Template No.: BU5-FC15B Version 1.1

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC611504	Rev. 01	Initial issue of report	Apr. 22, 2016

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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	4.81 dB at
					0.530 MHz
					Under limit
3.2	15 100	Dadiated Emission	< 15 100 limita	DACC	4.70 dB at
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	40.530 MHz for
					Quasi-Peak

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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	GSM Quad-band / UMTS Quad-band / LTE hepta-band mobile phone
Brand Name	alcatel
Model Name	6055B
FCC ID	2ACCJA015
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/NFC/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ WLAN 5GHz 802.11a/n HT20/HT40/ WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.2 LE
IMEI Code	Conduction: 356132070001855 Radiation: 356132070001855
HW Version	PIO
SW Version	010 01
EUT Stage	Identical Prototype

**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 of Equipment Under Test

Standards-related Product Specification					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz~1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz; 5745 MHz ~ 5805 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz				
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz~2154.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 17: 736.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz; 5745 MHz ~ 5805 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) NFC: 13.56 MHz				
Antenna Type	WWAN: Loop Antenna WLAN: IFA Antenna Bluetooth: IFA Antenna GPS/Glonass: IFA Antenna NFC: Loop Antenna				
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA / DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) DC-HSDPA: 64QAM HSPA+:16QAM(uplink is not supported) LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 256QAM) Bluetooth v4.0 LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps):π/4-DQPSK				

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Bluetooth (3Mbps) : 8-DPSK GPS/Glonass : BPSK NFC: ASK

## 1.5. Specification of Accessory

Specification of Accessory						
	Brand Name ALCATEL onetouch Model Name UC13US					
AC Adomtos 4						
AC Adapter 1	Power Rating	I/P: 100-240Vac, 400mA, O/P: 5Vdc, 2000mA				
	P/N	CBA0059AG0C2				
	Brand Name	ALCATEL onetouch	Model Name UC13US			
AC Adapter 2	Power Rating	I/P: 100-240Vac, 350mA, O/P: 5Vdc, 2000mA				
	P/N	CBA0059AG0C4				
	Brand Name	N/A	Model Name UC13US			
AC Adapter 3	Power Rating	I/P: 100-240Vac, 500n	nA, O/P: 5Vdc, 2000mA			
	P/N	CBA0059AG4C1				
	Brand Name	alcatel	Model Name UC13US			
AC Adapter 4	Power Rating	I/P: 100-240Vac, 350n	nA, O/P: 5Vdc, 2000mA			
	P/N	CBA0059AG0C4				
	Brand Name	alcatel	Model Name UC13US			
AC Adapter 5	Power Rating	I/P: 100-240Vac, 500mA, O/P: 5Vdc, 2000mA				
	P/N	CBA0059AGAC1				
Battery 1	Brand Name	ALCATEL onetouch	Model Name TLp026EJ			
Dattery 1	Power Rating	3.85Vdc, 2610mAh				
Battery 2	Brand Name	ALCATEL onetouch	Model Name TLp026E2			
Dattery 2	Power Rating	3.84Vdc, 2610mAh				
Bottom 2	Brand Name	alcatel	Model Name TLp026EJ			
Battery 3	Power Rating	3.85Vdc, 2610mAh				
Battery 4	Brand Name	alcatel	Model Name TLp026E2			
Dallely 4	Power Rating	3.84Vdc, 2610mAh				
USB Cable 1	Brand Name	N/A	Model Name CDA0000043C8			
COD Capie i	Signal Line Type	1.0m shielded without				
USB Cable 2	Brand Name	N/A	Model Name   CDA0000043C2			
	Signal Line Type	1.0m shielded without				
Formbons 4	Brand Name	alcatel	Model Name J22C			
Earphone 1	Signal Line Type	1.4m non-shielded wit	nout core			
	P/N	CCB0029A10CC	Model Neme 1991			
Earnhana 9	Brand Name	alcatel	Model Name   J22H			
Earphone 2	Signal Line Type	1.0m non-shielded without core				
	P/N	CCB0047A10CC				

Note: The adapter 4, 5 and battery 3, 4 are just with different logo, all the designs are identical with adapter 2, 3 and battery 1, 2.

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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 (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Toot Site No	Sporton Site No.		FCC Registration No.		
Test Site No.	CO01-KS	03CH02-KS	418269		

Note: The test site complies with ANSI C63.4 2014 requirement.

## 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 C63.4-2014

**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 C63.4-2014 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)			
2.	Data application transferred mode	$\boxtimes$	$\boxtimes$	$\boxtimes$
	(EUT connected with notebook)			

#### Abbreviations:

EMI AC: AC conducted emissions

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

• EMI RE < 1G: EUT radiated emissions < 1GHz

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Test Items	EUT Configure Mode	Function Type		
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Camera (Rear) <fig.1></fig.1>		
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 1 + Battery 1 + Camera (Front) <fig.1></fig.1>		
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 1 + Battery 1 + MPEG4 <fig.1></fig.1>		
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 1 + Battery 1 + NFC On <fig.1></fig.1>		
AC Conducted Emission	1/2	Mode 5: LTE Band 4 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + Battery 1 + Glonass Rx <fig.2></fig.2>		
	Мос	Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx <fig.2></fig.2>		
				Mode 7: LTE Band 13 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 1 + Battery 2 + NFC On <fig.1></fig.1>
		Mode 8: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 3) + Earphone 1 + Battery 1 + NFC On <fig.1></fig.1>		
		Mode 9: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Battery 1 + NFC On <fig.1></fig.1>		

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		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Camera (Rear) <fig.1></fig.1>
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 1 + Battery 1 + Camera (Front) <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + MPEG4 < Fig.1>
	1/2	Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + NFC On <fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 5: LTE Band 4 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + Battery 1 + Glonass Rx <fig.2></fig.2>
		Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx <fig.2></fig.2>
		Mode 7: LTE Band 13 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 2 + Camera (Rear) <fig.1></fig.1>
		Mode 8: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 3) + Earphone 1 + Battery 1 + Camera (Rear) <fig.1></fig.1>
		Mode 9: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 2 + Battery 1 + Camera (Rear) <fig.1></fig.1>
Radiated	, 1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Camera (Rear) <fig.1></fig.1>
Emissions ≥ 1GHz		Mode 2: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx <fig.2></fig.2>
	1	

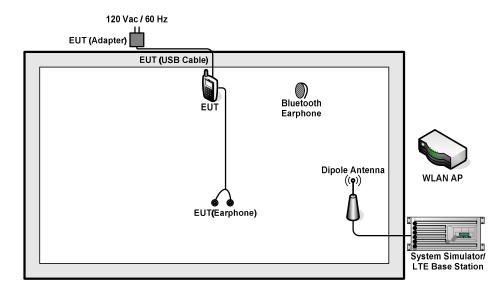
#### Remark:

- 1. The worst case of AC is mode 4, and the USB Link mode of AC is mode 6, the test data of these modes were reported.
- The worst case of RE < 1G is mode 1, and the USB Link mode of RE is mode 6, the test data of these modes were reported.
- **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.

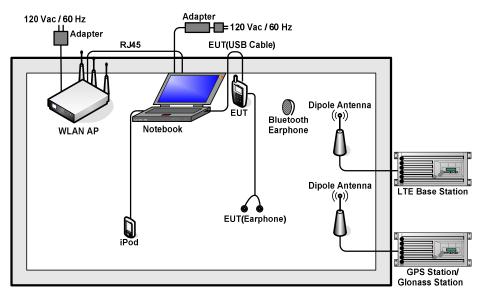
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## 2.2. Connection Diagram of Test System



<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	Anritus	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glonass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
7.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
8.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 0.9 m DC O/P: Shielded, 1.8 m
9.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
10.	Bluetooth Earphone	Lenovo	LBH-301	2010DP1340	N/A	N/A
11.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
12.	SD Card	Kingston	4GB	N/A	N/A	N/A
13.	SD Card	SanDisk	Uitra	FCC DoC	N/A	N/A
14.	iPod	Apple	A1199	FCC DoC	Shielded, 1.0 m	N/A

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## 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and was 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 "Video Player" to play MPEG4 files.
- 3. Turn on camera to capture images.
- 4. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
- 5. Turn on NFC function.

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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

- 1. 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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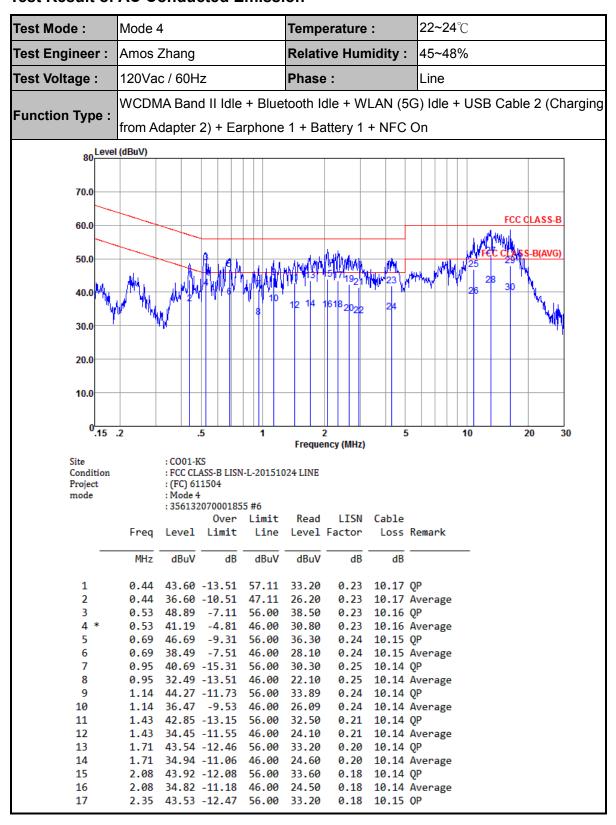
### 3.1.4 Test Setup



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#### 3.1.5 Test Result of AC Conducted Emission



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22~24°C Test Mode: Mode 4 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 45~48% 120Vac / 60Hz Phase: Test Voltage: Line WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging Function Type: from Adapter 2) + Earphone 1 + Battery 1 + NFC On 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 50.0 40.0 30.0 20.0 10.0 0.15 .2 10 20 30 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-L-20151024 LINE Project : (FC) 611504 mode : Mode 4 : 356132070001855 #6 Read LISN Cable Over Limit Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 34.83 -11.17 46.00 0.18 10.15 Average 18 2.35 24.50 19 2.65 42.43 -13.57 56.00 32.10 0.18 10.15 QP 33.63 -12.37 20 2.65 46.00 23.30 0.18 10.15 Average 21 2.96 41.54 -14.46 56.00 31.21 0.18 10.15 QP 22 2.96 32.94 -13.06 46.00 22.61 0.18 10.15 Average 10.17 QP 23 4.27 41.96 -14.04 56.00 31.60 0.19 24 4.27 34.16 -11.84 46.00 23.80 0.19 10.17 Average 25 10.85 46.84 -13.16 60.00 10.29 QP 36.30 0.25 0.25 10.29 Average 26 10.85 38.84 -11.16 50.00 28.30 27 13.13 50.70 -9.30 60.00 40.10 0.26 10.34 QP 10.34 Average 28 13.13 42.10 -7.90 50.00 31.50 0.26 29 16.40 47.99 -12.01 60.00 37.30 0.26 10.43 QP 16.40 30 39.89 -10.11 50.00 29.20 0.26 10.43 Average

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22~24°C Test Mode: Mode 4 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 45~48% Test Voltage: 120Vac / 60Hz Phase: Neutral WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging Function Type: from Adapter 2) + Earphone 1 + Battery 1 + NFC On 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 50.0 40.0 30.0 20.0 10.0 0.15 .2 .5 5 10 20 30 2 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL Project : (FC) 611504 : Mode 4 : 356132070001855 #6 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 1.88 41.12 -14.88 56.00 1 30.60 0.38 10.14 QP 2 1.88 31.72 -14.28 46.00 21.20 0.38 10.14 Average 3 2.27 40.82 -15.18 56.00 30.29 0.38 10.15 QP 2.27 31.82 -14.18 46.00 21.29 0.38 10.15 Average 2.54 40.62 -15.38 56.00 30.10 0.37 10.15 QP 5 2.54 30.62 -15.38 46.00 20.10 0.37 10.15 Average 7 10.85 42.07 -17.93 60.00 31.50 0.28 10.29 QP 10.29 Average 8 10.85 32.67 -17.33 50.00 22.10 0.28 9 12.19 47.49 -12.51 60.00 36.89 0.28 10.32 QP 0.28 10.32 Average 12.19 37.79 -12.21 50.00 27.19 10 14.21 49.54 -10.46 60.00 38.90 0.27 10.37 QP 11 \* 0.27

38.30

25.60

0.26

0.26

14.21 38.34 -11.66 50.00 27.70

48.99 -11.01 60.00

16.40 36.29 -13.71 50.00

12

13

14

16.40

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10.37 Average

10.43 Average

10.43 QP

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22~24°C Test Mode: Mode 6 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 45~48% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Function Type: Notebook) + Earphone 1 + Battery 1 + GPS Rx 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 30.0 20.0 10.0 0.15 .2 .5 5 10 20 30 Frequency (MHz) Site : CO01-KS : FCC CLASS-B LISN-L-20151024 LINE Condition Project : (FC) 611504 mode : Mode 6 : 356132070001855 #6 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.17 33.73 -31.30 65.03 23.20 0.41 10.12 QP 1 0.17 21.73 -33.30 55.03 11.20 0.41 10.12 Average 0.19 31.51 -32.64 64.15 21.10 3 0.29 10.12 QP 4 0.19 24.01 -30.14 54.15 13.60 0.29 10.12 Average 5 0.44 34.70 -22.28 56.98 24.30 0.23 10.17 QP 6 0.44 28.50 -18.48 46.98 18.10 0.23 10.17 Average 0.78 28.29 -27.71 56.00 17.90 7 0.24 10.15 QP 0.78 19.69 -26.31 46.00 0.24 10.15 Average 8 9.30 9 2.58 28.53 -27.47 56.00 18.20 0.18 10.15 QP 0.18 10.15 Average 10 2.58 20.93 -25.07 46.00 10.60 11 4.95 30.47 -25.53 56.00 20.10 0.19 10.18 QP 0.19 10.18 Average 12 4.95 23.67 -22.33 46.00 13.30

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Test Mode :	Mode 6	6			Temp	erature	:	22~24	$^{\circ}\!\mathbb{C}$			
Test Engineer :	Amos Z	Zhang			Relati	ve Hun	nidity :	45~48	%			
Test Voltage :	120Va	c / 60H	z		Phase	nase: Neuti				leutral		
Function Type :	Notebo						. ,	le + USE	3 Cable	e 2 (Data	Link with	
80 Level	(dBuV)											
70.0												
60.0										FCC CLAS	S-B	
50.0									FCC	CLASS-B(A	VG)	
40.0	NA Lina	<u> </u>	1		Marrellhusse	white for the	المائيس	W. / Va. v.				
30.0			NAMA	N Hardington	W 1	10	12	7	hozp depth high per	physical pull		
20.0		11	<b>,</b>							1	<sub>N</sub> A <sup>BA</sup>	
10.0												
0.15	2		5	1		2 ency (MHz)	5		10	20	30	
Site Condition Project mode		: (FC) 61 : Mode 6	ASS-B LISN 1504		024 NEUT	'RAL						
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark				
	MHz	dBuV	dB	dBuV	dBuV	dB	dB					
1 2	0.16 0.16		-31.46 -31.16		23.60 13.90	0.30 0.30	10.11 10.11	QP Average				
3 4	0.18 0.18		-32.56 -33.26				10.12	QP Average				
5	0.24		-34.42			0.31		_				
6	0.24		-30.52			0.31		Average				
7	0.47		-19.91	56.49			10.16					
8 *	0.47 2.54		-17.11 -23.58	46.49 56.00	18.90 21.90	0.32		Average OP				
10			-18.88					үг Average				
11			-22.26				10.18	_				
12	4.72	27.84	-18.16	46.00	17.30	0.36		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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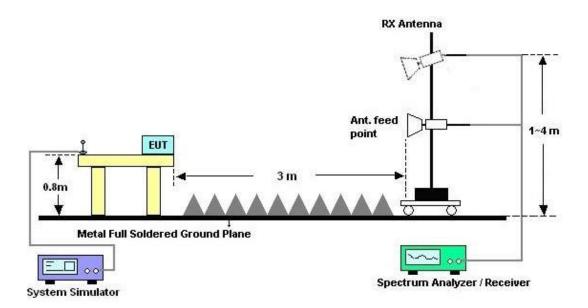
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### 3.2.4. Test Setup of Radiated Emission

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



#### For radiated emissions above 1GHz

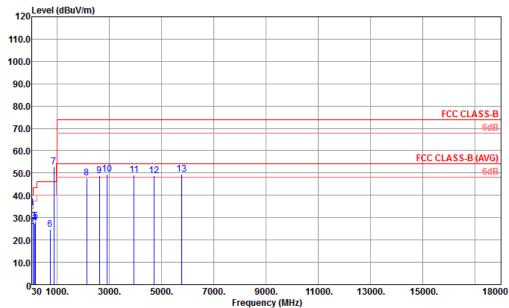


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### 3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	21~22°C					
Test Engineer :	Wizard Chen	Relative Humidity :	41~42%					
Test Distance :	3m	Polarization :	Horizontal					
Eurotion Type	GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from							
Function Type :	Adapter 1) + Earphone 1 + Battery 1 + Camera (Rear)							
Remark :	#7 is system simulator signal which can be ignored.							



Site : 03CH02-KS

: FCC CLASS-B 3m LF\_ANT\_37879 HORIZONTAL

Condition Project : (FC) 611504

Mode

: 356132070001855 IMEI

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor		T/Pos	Remark	Pol/Phas
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 !	35.94	34.44	-5.56	40.00	48.05	16.26	1.03	30.90	146	260	Peak	HORIZONT
2	41.07	26.07	-13.93	40.00	42.07	13.79	1.09	30.88			Peak	HORIZONT
3	98.31	28.49	-15.01	43.50	46.19	11.08	1.62	30.40			Peak	HORIZONT
4	148.53	27.30	-16.20	43.50	43.99	11.68	2.03	30.40			Peak	HORIZONT
5	174.99	28.40	-15.10	43.50	45.85	10.77	2.18	30.40			Peak	HORIZONT
6	743.80	24.59	-21.41	46.00	30.16	20.18	4.74	30.49			Peak	HORIZONT
7 *	881.70	52.79			56.19	22.08	5.05	30.53			Peak	HORIZONT
8	2132.00	47.78	-26.22	74.00	43.01	31.00	5.85	32.08			Peak	HORIZONT
9	2628.00	48.86	-25.14	74.00	40.93	31.81	6.48	30.36			Peak	HORIZONT
10	2922.00	49.50	-24.50	74.00	39.71	32.63	6.86	29.70			Peak	HORIZONT
11	3957.00	49.12	-24.88	74.00	36.08	34.49	8.44	29.89			Peak	HORIZONT
12	4716.00	48.82	-25.18	74.00	37.37	34.83	8.65	32.03			Peak	HORIZONT
13	5784.00	49.36	-24.64	74.00	40.00	35.32	9.66	35.62			Peak	HORIZONT

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Test Mode :	Mod	le 1				Tempe	rature	<b>:</b>	21~	21~22°C			
Test Engineer :	Wiza	ard Ch	en			Relativ	e Hur	nidity :	41~	-42%			
Test Distance :	3m				I	Polariz	ation	:	Ver	Vertical			
Function Type	. GSN	/1850 I	dle + E	Blueto	oth Idle	dle + WLAN (2.4G) Idle + USB Cable 1 (Charging from							
r direction Type	Ada	pter 1)	+ Ear	phone	1 + B	attery	1 + Ca	mera (	Rear)				
Remark :	#7 is	s syste	m sim	ulator	signal	which	can b	e ignor	ed.				
120 Le	/el (dBuV	//m)											
110.0													
100.0													
90.0													
80.0											FCC	CLASS-B	
70.0												-6dB	
60.0	7										FCC CLAS	S-B (AVG)	
50.0		8 910	11	12 13								-6dB-	
40.0													
30.0	ep i												
20.0				++									
10.0													
030	1000.	3000	). 5	000.	7000.		00. cy (MHz)	11000.	1300	00.	15000.	18000	
Site Conditi Project Mode IMEI		:	(FC) 611 1 35613207	5S-B 3m 1504 7000185	5	_37879 \	/ERTICAI	L					
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg			
9	59.16 96.42 180.39 611.50 743.80 881.70 2198.00 2620.00	32.05 36.50 31.95 24.36 26.00 53.47 47.95 49.49	-7.95 -7.00 -11.55 -21.64 -20.00 -26.05 -24.51	40.00 43.50 43.50 46.00 46.00 74.00	55.00 54.45 49.61 31.44 31.57 56.87 42.69 41.71	13.79 6.36 10.86 10.55 18.93 20.18 22.08 31.08 31.75 32.60	1.31 1.59 2.19 4.21 4.74 5.05 5.91 6.48	30.88 30.62 30.40 30.22 30.49 30.53 31.73 30.45 29.67	100		QP Peak Peak Peak Peak Peak Peak Peak Pea	VERTICAL	
11 12	4245.00 5034.00	49.81 49.61	-24.19 -24.39	74.00 74.00	36.88 39.21	34.78 35.01 35.32	8.52 8.88	30.37 33.49 35.62			Peak Peak Peak	VERTICAL VERTICAL VERTICAL	

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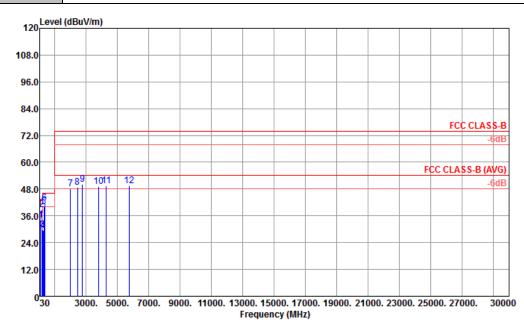
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Test Mode :	Mode 6	Temperature :	21~22°C
Test Engineer :	Wizard Chen	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal

LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Function Type: Notebook) + Earphone 1 + Battery 1 + GPS Rx



: 03CH02-KS Site

Condition : FCC CLASS-B 3m LF\_ANT\_37879 HORIZONTAL

: (FC) 611504 Project Mode : 356132070001855

_	Freq		Over Limit	Line	Level	ntenna Factor	Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHZ	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	84.81	33.94	-6.06	40.00	53.29	9.65	1.50	30.50			Peak	HORIZONT
2 !	165.81	38.65	-4.85	43.50	55.82	11.10	2.13	30.40			Peak	HORIZONT
3	225.75	29.78	-16.22	46.00	46.74	10.99	2.50	30.45			Peak	HORIZONT
4	254.64	29.39	-16.61	46.00	45.04	12.19	2.66	30.50			Peak	HORIZONT
5 !	314.70	40.22	-5.78	46.00	54.19	13.62	2.94	30.53			Peak	HORIZONT
6!	344.80	41.69	-4.31	46.00	54.46	14.81	3.01	30.59	147	360	Peak	HORIZONT
7	1998.00	48.19	-25.81	74.00	44.77	30.80	5.64	33.02			Peak	HORIZONT
8	2456.00	48.85	-25.15	74.00	42.30	31.36	6.28	31.09			Peak	HORIZONT
9	2766.00	50.10	-23.90	74.00	40.80	32.28	6.67	29.65			Peak	HORIZONT
10	3771.00	49.26	-24.74	74.00	36.39	34.22	8.06	29.41			Peak	HORIZONT
11	4290.00	49.32	-24.68	74.00	36.71	34.76	8.52	30.67			Peak	HORIZONT
12	5748.00	49.51	-24.49	74.00	40.14	35.29	9.63	35.55			Peak	HORIZONT

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Test Mode :	Mode 6			Tempe	erature	<b>)</b> :	21~2	21~22°C			
Test Engineer :	Wizard	Chen		Relativ	e Hur	midity :	41~4	12%			
Test Distance :	3m			Polariz	zation	:	Verti	cal			
Franctica Trace	LTE Ba	nd 7 Idle	+ Bluetoo	th Idle + '	WLAN	(5G) Idl	e + U	SB C	able 2 (	(Data Link with	
Function Type :	Noteboo	ok) + Ear	phone 1 +	Battery	1 + GF	PS Rx					
120 Leve	l (dBuV/m)										
108.0											
100.0											
96.0											
84.0											
72.0									FCC	CCLASS-B	
72.0										-6dB	
60.0									FCC CLAS	SS-B (AVG)	
48.0	789 10	11 12								-6dB	
5 <sub>B</sub>											
36.0											
24.0											
12.0											
030	3000. 5	000. 7000.	9000. 11000		000. 170 ncy (MHz)		21000. 2	3000. 2	25000. 270	000. 30000	
Site		: 03CH02-	KS	riequei	icy (Minz)	,					
Condition	n		SS-B 3m LF_/	ANT_37879 \	VERTICA	L					
Project Mode		: (FC) 61	1504								
IMEI		: 3561320	70001855								
		Over	Limit R	eadAntenna	Cable	Preamp A	/Pos	T/Pos			
	Freq Le	vel Limit	Line Le	vel Factor	Loss	Factor			Remark	Pol/Phas	
	MHz dBu	V/m dB	dBuV/m di	BuV dB/m	dB	dB	cm	deg			
1		.07 -8.93		.64 9.43	1.50		149		Peak	VERTICAL	
		.64 -12.86 .21 -10.29		.54 11.44 .34 11.14	2.06				Peak Peak	VERTICAL VERTICAL	
		.21 -10.29 .45 -17.55		.66 11.75	2.13				Peak	VERTICAL	
		.74 -9.26		.51 14.81	3.01				Peak	VERTICAL	
		.13 -10.87		.36 18.81	4.17				Peak	VERTICAL	
		.79 -26.21		.55 30.92	5.75				Peak	VERTICAL	
8 25	526.00 48	.39 -25.61	74.00 41	.36 31.46	6.38	30.81			Peak	VERTICAL	
		.92 -24.08		.27 32.40		29.47			Peak	VERTICAL	
		.29 -24.71		.04 34.80		30.07			Peak	VERTICAL	
		.75 -24.25		.58 34.87		32.41			Peak	VERTICAL	
12 56	567.00 49	.22 -24.78	74.00 39	.84 35.23	9.55	35.40			Peak	VERTICAL	

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## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	Apr. 07, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 10, 2015	Apr. 07, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Mar. 12, 2016	Apr. 07, 2016	Mar. 11, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2015	Apr. 07, 2016	Nov. 06, 2016	Radiation (03CH02-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz~40Ghz	Oct. 10, 2015	Apr. 07, 2016	Oct. 09, 2016	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	May 04, 2015	Apr. 07, 2016	May 03, 2016	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1GHz~26.5GHz	Oct. 24, 2015	Apr. 07, 2016	Oct. 23, 2016	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Aug. 27, 2015	Apr. 07, 2016	Aug. 26, 2016	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Apr. 07, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 07, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 07, 2016	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	Apr. 08, 2016	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Apr. 08, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Apr. 08, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Apr. 08, 2016	Oct. 23, 2016	Conduction (CO01-KS)

NCR: No Calibration Required

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## 5. Uncertainty of Evaluation

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

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)

Managemba Harantainte for a Lavel of	
Measuring Uncertainty for a Level of	5.1dB
Confidence of 95% (U = 2Uc(y))	3.1db

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