

## OTA Summation Test Report

<b>Date of Report</b>	17-Oct-2017	<b>Client's Contact person:</b>	Jose J. Machado
<b>Number of pages:</b>		<b>Responsible Test engineer:</b>	Pertti Mäkikyrö
<b>Testing laboratory:</b>	Verkotan Oy Elektroniikkatie 17 90590 Oulu Finland	<b>Client:</b>	Noxtak Group
<b>Tested device</b>	LG G6 Cellular phone		
<b>Related reports:</b>	-		
<b>Testing has been carried out in accordance with:</b>	3GPP 34.114		
<b>Documentation:</b>	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory		
<b>Test Results:</b>	The test results relate only to devices specified in this document		

**Date and signatures:** 17.10.2017

For the contents:

**Miia Nurkkala**

## 1. SUMMARY

### 1.1 TEST DETAILS

#### Equipment under Test (EUT):

<b>Product:</b>	Cellular phone
<b>Manufacturer:</b>	LG G6
<b>Type:</b>	
<b>IMEI:</b>	35614408589613
<b>FCC ID Number:</b>	
<b>Hardware Version:</b>	
<b>Software Version:</b>	
<b>DUT Number:</b>	
<b>Battery Type used in testing:</b>	
<b>Configuration of Primary Mechanical Mode:</b>	

#### Testing information:

<b>Testing performed:</b>	Pertti Mäkikyrö
<b>Notes:</b>	
<b>Document name:</b>	LG G6 OTA report.docx
<b>Temperature °C / Humidity RH%</b>	20 +/- 1 °C 45 +/- 10 RH%
<b>Measurement performed by:</b>	Pertti Mäkikyrö

#### EUTs Used for Each Test:

Serial Number	CATL/Chamber used	Band(s)	Test Type(s)	Test Condition(s)
35614408589613	2	WCDMA I	TRP/TRS	FS
35614408589613	2	WLAN 2.4GHz	TRP	FS
35614408589613	2	WLAN 5GHz	TRP	FS

### 1.2 MEASUREMENT UNCERTAINTY

Expanded Uncertainty (dB)		
Test Configuration	TRP	TRS
Free Space	1.60	1.85
Beside Head and Hand Left and Beside Head and Hand Right	N/A	N/A

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## 2. TEST EQUIPMENT

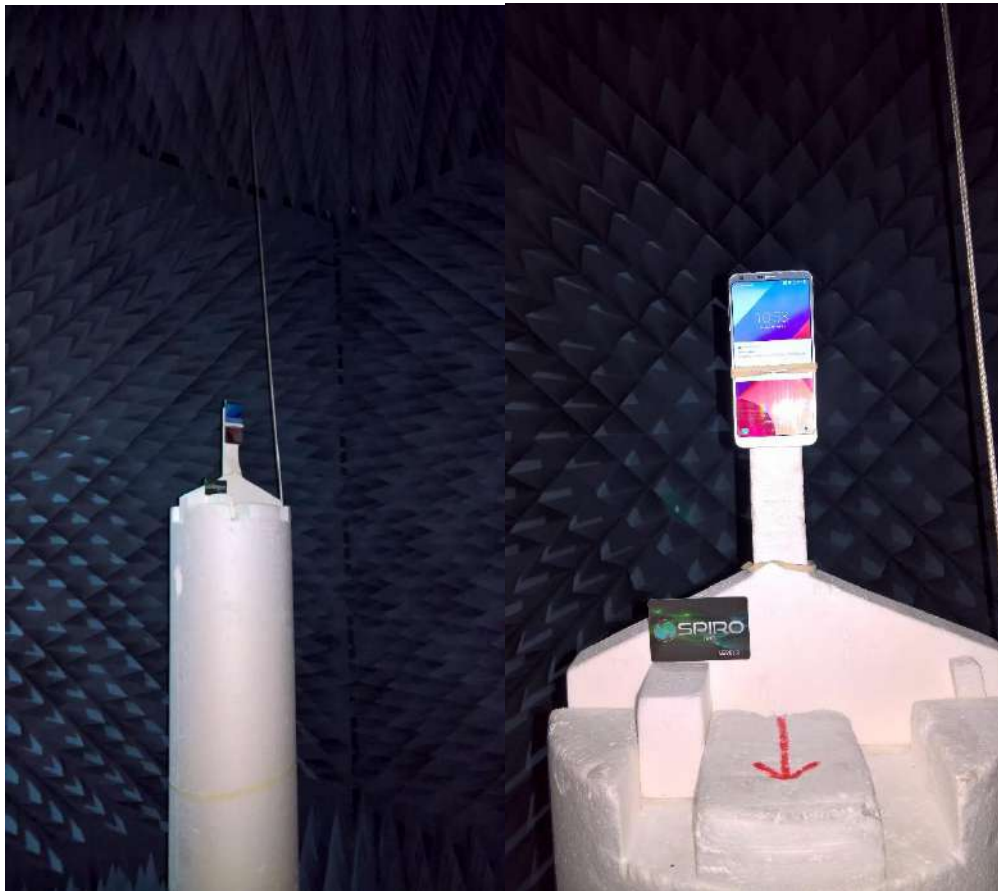
Main used test equipment are listed below. For full equipment list and calibration intervals, please contact the testing laboratory.

Type of Equipment	Type	Manufacturer
Power Meter	NRP-Z21	Rohde&Schwarz
Radio Communication Tester	MT8820C	Anritsu
Diagonal Dual Polarized Horn Measurement Antenna	3161-03	EMCO
Positioning Controller	2090	EMCO
3D Positioner	Custom made	ETS-Lindgren
RF Network Analyzer	E5071C	Agilent
Switching System	1256	Racal
Switching System	MSN-6TD-06-DEC-SP	American Microwave
Anechoic Chamber	2	ETS-Lindgren
Head Phantom	SAM V4.5	SPEAG
Head Phantom	IBX-030	Indexsar
Talk mode Hand Fixture	SHO-FTMV1	SPEAG
HR Hand Fixture	SHO-FDMV2	SPEAG
PDA Hand Phantom	SHOV2RP, SHOV2LP	SPEAG
Ultra Wide PDA Hand Phantom	IBX-056R, IBX-056L	Indexsar

### 3. MEASUREMENTS

Testing was performed according to the 3GPP 34.114 test specification

#### 3.1 TEST SETUP FOR FREE SPACE MEASUREMENT



3.2

## 4. RESULTS

### 4.1 TRP

Band	Uplink Channel	TRP (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WCDMA I	9612	18.33	18.64				
	9750	18.46					
	9888	19.09					

### 4.2 TRP with SPIRO level 3 card

Band	Uplink Channel	TRP (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WCDMA I	9612	18.36	18.69				
	9750	18.48					
	9888	119.18					

### 4.3 TRS

Band	Downlink Channel	TRS (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WCDMA I	10562	-93.24	-110.50				
	10700	-111.05					
	10838	-110.66					

### 4.4 TRs with SPIRO level 3 card

Band	Downlink Channel	TRS (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WCDMA I	10562	-109.67	-110.42				
	10700	-110.95					
	10838	-110.55					

#### 4.5 TRP

Band	Uplink Channel	TRP (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WLAN 802.11b	9612	18.33	18.64				
	9750	18.46					
	9888	19.09					

#### 4.6 TRP with SPIRO level 2 card

Band	Uplink Channel	TRP (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WLAN 802.11b	9612	18.36	18.69				
	9750	18.48					
	9888	119.18					

#### 4.7 TRP

Band	Uplink Channel	TRP (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WLAN 802.11a	44	6.19					

#### 4.8 TRP with SPIRO level 2 card

Band	Uplink Channel	TRP (dBm)					
		FS	FS AVG	BHHL	BHHL AVG	BHHR	BHHR AVG
WLAN 802.11a	44	6.20					

FS = Free Space

BHHL= Beside Head and Hand Left Side (Head and Hand Phantom)

BHHR= Beside Head and Hand Right Side (Head and Hand Phantom)

**5. SUMMATION TEST REPORT PLOT MATRIX**

Band	FS		BHHR		BHHL	
	TRP	TRS	TRP	TRS	TRP	TRS
WCDMA band I	x	x				
WLAN 802.11b	x					
WLAN 802.11a	x					

5.1 3D-PLOTS FREE SPACE

