



HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: LG Electronics MobileComm U.S.A., Inc.	Date of Issue: March 21, 2014
Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632	Test Site/Location: HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea
	Report No.: HCT-R-1403-F021-2
	HCT FRN: 0005866421

FCC ID : ZNFD625

APPLICANT : LG Electronics MobileComm U.S.A., Inc.

FCC Model(s): LG-D625

Additional FCC Model(s): LGD625, D625

EUT Type: Cellular/PCS GSM, WCDMA,LTE Phone with Bluetooth/WLAN/NFC

RF Output Field Strength 15.72 dBuV/m

Frequency of Operation: 13.560079 MHz

Modulation type ASK

FCC Classification: Low Power Communication Device – Transmitter

FCC Rule Part(s): FCC Part 15.225 Subpart C

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C.853(a)

Report prepared by
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Approved by
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FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1403-F021	March 14, 2014	- First Approval Report
HCT-R-1403-F021-1	March 19, 2014	-Revised the test procedure of powerline conducted emissions on page 16 -Retested it under terminated antenna operating on page 21 to 24
HCT-R-1403-F021-2	March 21, 2014	-Revised the note on page 12

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1. GENERAL INFORMATION

Applicant: LG Electronics MobileComm U.S.A., Inc.

Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632

FCC ID: ZNFD620

EUT Type: Cellular/PCS GSM, WCDMA,LTE Phone with Bluetooth/WLAN/NFC

Model name(s): LG-D625
Additional Model name(s): LGD625, D625
Date(s) of Tests: February 12, 2014 ~ March 19, 2014

Place of Tests: HCT Co., Ltd.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea.
(IC Recognition No. : 5944A-3)

Applicant: LG Electronics MobileComm U.S.A., Inc.

2. EUT DESCRIPTION

Product	Cellular/PCS GSM, WCDMA,LTE Phone with Bluetooth/WLAN/NFC
FCC Model Name	LG-D625
Additional FCC Model Name	LGD625, D625
Power Supply	DC 3.8 V
Battery Type	Li-ion Battery(Standard)
Frequency of Operation	13.560079 MHz
Transmit Power	15.72 dBuV/m
Modulation Type	ASK
Antenna Specification	Manufacturer: AT&C Co., LTD. Antenna type: FPCB Antenna

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.10-2009).

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.225 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2009) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6.3 of ANSI C63.10. (Version: 2009).

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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3.5 STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance With

FCC Part 15.Subpart C

Regulation	Measurement standard	Range
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(a)	ANSI C63.10:2009	13.553MHz to 13.567MHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(d)	ANSI C63.10:2009	outside of the 13.110-14.010 MHz band
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209	ANSI C63.10:2009	9kHz to 30MHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209	ANSI C63.10:2009	30MHz to 1GHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.207	ANSI C63.10:2009	150kHz to 30MHz
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(e)	ANSI C63.10:2009	0.01% of nominal
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.215(c)	ANSI C63.10:2009	-

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The 10 m semi anechoic chamber used to collect the Conducted and Radiated data is located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4. Detailed description of test facilities was submitted to the Commission and accepted dated February 28, 2014 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned loop, dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

* The antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203

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7. TEST SUMMARY

The results in this report apply only to sample tested

Regulation	Test Type	Range	Result
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(a)	Radiated Electric Field Emissions	13.553MHz to 13.567MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(b)	Radiated Electric Field Emissions	13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(c)	Radiated Electric Field Emissions	13.110 MHz to 13.410 MHz and 13.710 MHz to 14.010 MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209 (d)	Radiated Electric Field Emissions	9kHz to 30MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.209	Radiated Electric Field Emissions	30MHz to 1GHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.207	AC power conducted emissions	150kHz to 30MHz	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.225(e)	Frequency Stability	0.01% of nominal	Pass
Title 47 of the CFR:2012, Part 15 Subpart (c), Clause 15.215(c)	20 dB Bandwidth	-	Pass

8. RADIATED EMISSION MEASUREMENT

Requirement(s): 15.209, 15.225

Except as provided elsewhere in this paragraph the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Minimum Standard: FCC Part 15.225 / 15.209

Rule Part	Frequency (MHz)	Limit
Part 15.209	0.009 ~ 0.490	2400/F(kHz)uV/m@300
	0.490 ~1.705	24000/F(kHz)uV/m@30
	1.705 ~ 30	30 uV/m@30
	30 ~ 88	100 ** uV/m@3m
	88 ~ 216	150 ** uV/m@3m
	216 ~ 960	200 ** uV/m@3m
	Above 960	500 uV/m@3m

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

15.225 Operation within the band 13.110 – 14.010 MHz.

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter (= 84 dBuV/m) at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter (=50.5dBuV/m) at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter (=40.5 dBuV/m) at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

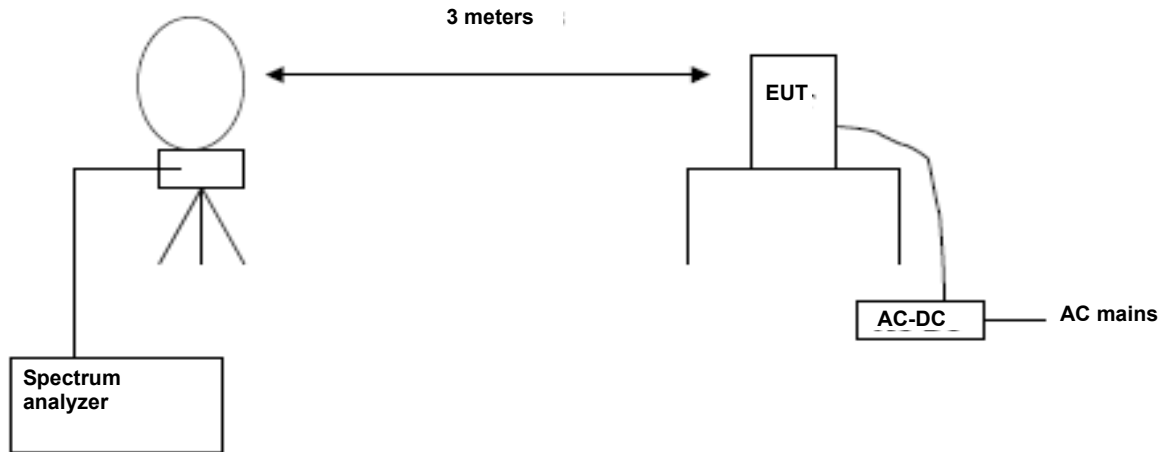
(e) The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

(f) In the case of radio frequency powered tags designed to operate with a device authorized under this section, the tag may be approved with the device or be considered as a separate device subject to its own authorization. Powered tags approved with a device under a single application shall be labeled with the same identification number as the device.

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8.1. RADIATED EMISSION 9 kHz – 30 MHz

Test Set-up



Test Procedure

The EUT was placed on a non-conductive table located on a large open test site. The loop antenna was placed at a location 3m from the EUT. Radiated emissions were measured with the loop antenna both parallel and perpendicular to the plane of the EUT loop antenna and with x, y, z planes in EUT.

The limit is converted from microvolts/meter to decibel microvolts/meter. Sample Calculation:

Corrected Amplitude = Raw Amplitude(dBμV/m) + ACF(dB) + Cable Loss(dB) – Distance Correction Factor

The spectrum analyzer is set to:

Frequency Range = 9 kHz ~ 1GHz

RBW = 9 kHz (9 kHz ~ 30MHz)
= 120 kHz (30 MHz ~ 1 GHz)

Trace Mode = max hold

Detector Mode = peak / Quasi-peak

Sweep time = auto

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Test Results

13.553 MHz-13.567 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.5605	45.91(H)*	9.81	-40	15.72	84	68.28
13.5605	41.26(V)*	9.81	-40	11.07	84	72.93

13.410 MHz-13.553 MHz and 13.567 MHz-13.710 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.4546	34.23	9.81	-40	4.04	50.47	46.43
13.5670	34.62	9.81	-40	4.43	50.47	46.04

13.110 MHz – 13.410 MHz and 13.710 MHz-14.010 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.3494	29.41	9.81	-40	-0.78	40.51	41.29
13.7718	30.78	9.81	-40	0.59	40.51	39.92

9 kHz -30 MHz						
Frequency (MHz)	Read Level (dBuV)@3m	Ant.Factor+Cable Loss (dB/m)	Distance Correction (dB)	Result Level (dBuV/m)@30m	Limit (dBuV/m)@30m	Margin (dB)
13.0353	18.95	19.58	-40	-1.47	29.54	31.01
18.2365	15.63	18.58	-40	-5.79	29.54	35.33
27.1202	14.21	18.58	-40	-7.21	29.54	36.75
27.1206	14.19	18.58	-40	-7.23	29.54	36.77

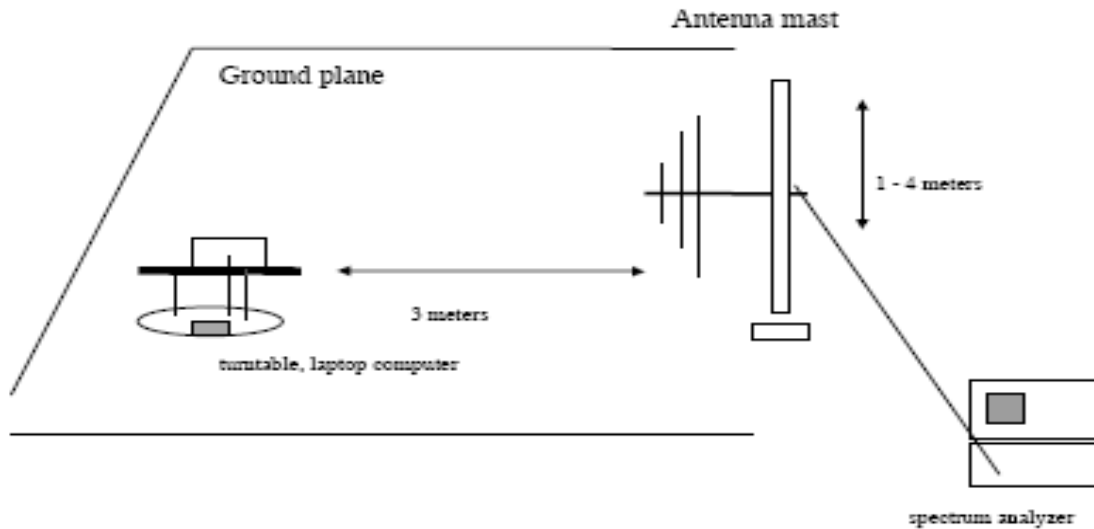
Note :

1. Distance Correction Below 30MHz = $40\log(3m/30m) = -40$ dB
Measurement Distance : 3 m (Below 30 MHz)
2. Factor = Antenna Factor + Cable Loss
3. Result Level = Read Level + Factor + Distance Correction
4. Margin = Limit – Result Level
5. We have done x, y, z planes in EUT
6. Antenna rotated about its vertical/horizontal axis for maximum response at each azimuth position around the EUT.
7. Worst case of operating mode is type A, analog mode and 106 kbps.

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8.2. RADIATED EMISSION 30 MHz – 1000 MHz

Test Set-up



Test Procedures: Radiated emissions were measured according to ANSI C63.10.

The EUT was set to transmit at the highest output power.

The EUT was set 3 meter away from the measuring antenna.

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
Mhz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
34.75	21.56	12.01	0.97	H	34.54	40	5.46
37.19	20.48	12.35	1.02	H	33.85	40	6.15
44.37	21.67	13.06	1.12	V	35.85	40	4.15
75.28	22.18	10.05	1.46	H	33.69	40	6.31
150.69	23.46	11.18	2.08	H	36.72	43.5	6.78
161.44	22.67	13.26	2.12	V	38.05	43.5	5.45

Remark

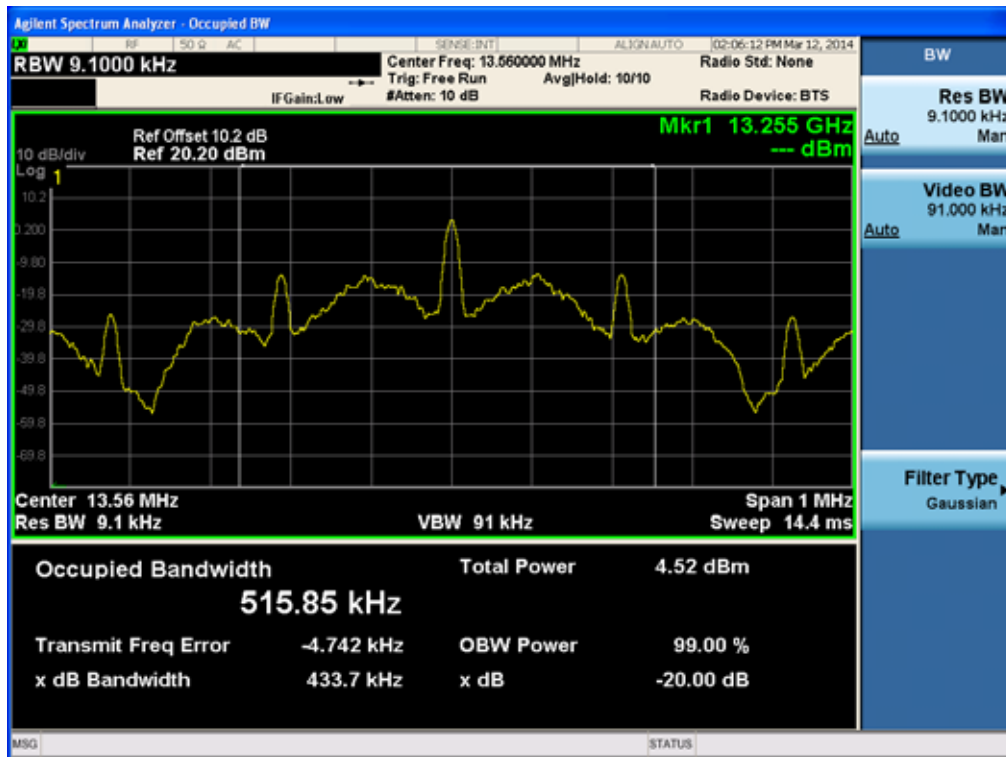
1. Result Level = Read Level + (Antenna Factor+ Cable Loss)
2. Margin = Limit – Result Level

9. EMISSION BANDWIDTH PLOT.

Requirement(s):

Test Set-up: The EUT was connected to a spectrum analyzer.

Test Procedure: The 20 dB bandwidth was measured by using a spectrum analyzer.



10. FREQUENCY TOLERANCE

Procedure: Part 15.225, ANSI 63.10

If required, the operating or transmitting frequency of an intentional radiator should be measured in accordance with the following procedure to ensure that the device operates outside certain precluded frequency bands and within the frequency range. No modulation needs to be supplied to the intentional radiator during these tests, unless modulation is required to produce an output, e.g., single-sideband suppressed carrier transmitters.

The frequency stability of the transmitter is measured by:

- a) Temperature: The temperature is varied from -20°C to + 50°C using an environmental chamber.
- b) For battery operated equipment, the equipment tests shall be performed using a new battery.

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

Measurement Result:

VOLTAGE (%)	POWER (VDC)	Temperature (°C)	Frequency (MHz)	Frequency Error (Hz)
100%	3.8 V	-20	13.560182	103
100%		-10	13.560165	86
100%		0	13.560128	49
100%		10	13.560109	30
100%		20	13.560079	0
100%		30	13.560066	-13
100%		40	13.560034	-45
100%		50	13.560002	-77
115%	4.37	20	13.560107	28
Batt. Endpoint	3.5	20	13.560067	-12

11. POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which 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 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.
5. The EUT is the device with a detachable antenna operating below 30 MHz.
 - For unterminated the Antenna, the AC line conducted tests are performed with the antenna connected
 - For terminated the Antenna, the AC line conducted tests are performed with a dummy load connected to the EUT antenna output terminal.

Test Plots

Unterminate the Antenna

Conducted Emissions (Line 1)

EMI Auto Test(1)

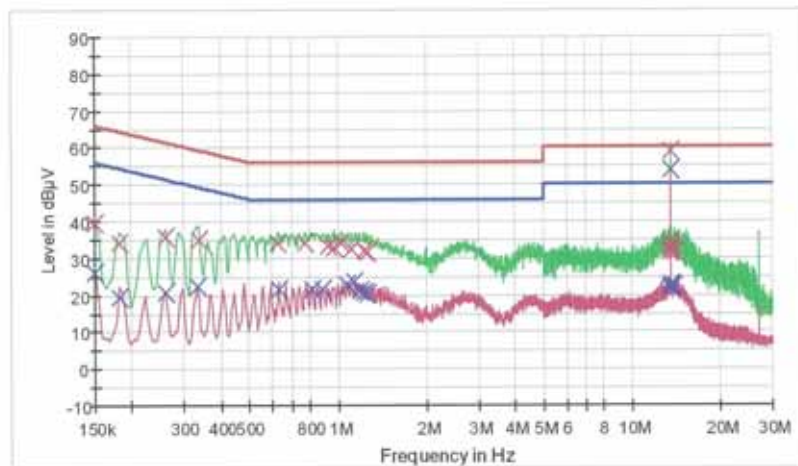
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HCT TEST Report

Common Information

EUT: LG-D625
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(UNTERMINATED)
 Operator Name: JC SHIN

FCC CLASS B



— FCC CLASS B_LQP — FCC CLASS B_LAV — Preview Result 1-PK
 — Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	39.5	9.000	Off	L1	9.7	26.5	66.0
0.181500	34.3	9.000	Off	L1	9.7	30.1	64.4
0.262500	36.0	9.000	Off	L1	9.7	25.4	61.4
0.339000	35.0	9.000	Off	L1	9.7	24.2	59.2
0.626000	34.3	9.000	Off	L1	9.8	21.7	56.0
0.774500	34.2	9.000	Off	L1	9.8	21.8	56.0
0.932000	33.1	9.000	Off	L1	9.8	22.9	56.0
0.968000	32.9	9.000	Off	L1	9.8	23.1	56.0
1.031000	34.0	9.000	Off	L1	9.8	22.0	56.0
1.116500	32.3	9.000	Off	L1	9.8	23.7	56.0
1.229000	31.8	9.000	Off	L1	9.8	24.1	56.0
1.265000	31.5	9.000	Off	L1	9.8	24.5	56.0
13.392500	31.7	9.000	Off	L1	10.6	28.3	60.0
13.518500	32.8	9.000	Off	L1	10.6	27.2	60.0
13.559000	59.0	9.000	Off	L1	10.6	1.0	60.0
13.586000	34.1	9.000	Off	L1	10.6	25.9	60.0

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EMI Auto Test(1)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
13.626500	32.0	9.000	Off	L1	10.6	28.0	60.0
13.824500	31.8	9.000	Off	L1	10.6	28.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	25.9	9.000	Off	L1	9.7	30.1	56.0
0.181500	19.5	9.000	Off	L1	9.7	34.9	54.4
0.262500	20.6	9.000	Off	L1	9.7	30.8	51.4
0.334500	22.6	9.000	Off	L1	9.7	26.7	49.3
0.630500	21.6	9.000	Off	L1	9.8	24.4	46.0
0.815000	21.4	9.000	Off	L1	9.8	24.6	46.0
0.882500	21.7	9.000	Off	L1	9.8	24.3	46.0
1.071500	22.6	9.000	Off	L1	9.8	23.4	46.0
1.143500	23.8	9.000	Off	L1	9.8	22.2	46.0
1.193000	21.3	9.000	Off	L1	9.8	24.7	46.0
1.229000	20.7	9.000	Off	L1	9.8	25.3	46.0
1.265000	20.1	9.000	Off	L1	9.8	25.9	46.0
13.397000	21.9	9.000	Off	L1	10.6	28.1	50.0
13.518500	22.6	9.000	Off	L1	10.6	27.4	50.0
13.559000	53.7	9.000	Off	L1	10.6	-3.7	50.0
13.586000	22.8	9.000	Off	L1	10.6	27.2	50.0
13.649000	21.8	9.000	Off	L1	10.6	28.2	50.0
13.824500	22.2	9.000	Off	L1	10.6	27.8	50.0

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FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-R-1403-F021-2	Date of Issue: March 21, 2014	EUT Type: Cellular/PCS GSM, WCDMA,LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625

Conducted Emissions (Line 2)

EMI Auto Test(1)

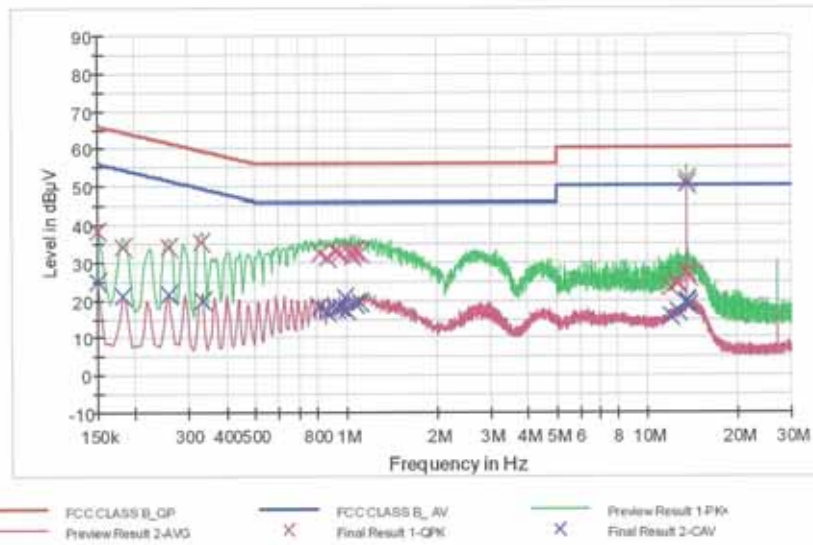
1 / 2

HCT TEST Report

Common Information

EUT: LG-D625
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE(UNTERMINATED)
 Operator Name: JC SHIN

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	38.5	9.000	Off	N	9.7	27.5	66.0
0.181500	34.2	9.000	Off	N	9.7	30.2	64.4
0.258000	34.0	9.000	Off	N	9.7	27.5	61.5
0.330000	35.4	9.000	Off	N	9.7	24.1	59.5
0.815000	32.4	9.000	Off	N	9.8	23.6	56.0
0.869000	31.4	9.000	Off	N	9.8	24.6	56.0
0.927500	32.8	9.000	Off	N	9.8	23.2	56.0
0.963500	32.6	9.000	Off	N	9.8	23.4	56.0
1.040000	32.7	9.000	Off	N	9.8	23.3	56.0
1.049000	31.6	9.000	Off	N	9.8	24.4	56.0
1.076000	32.8	9.000	Off	N	9.8	23.2	56.0
1.112000	32.5	9.000	Off	N	9.8	23.5	56.0
11.957000	23.1	9.000	Off	N	10.5	36.9	60.0
12.506000	24.3	9.000	Off	N	10.5	35.7	60.0
12.699500	24.5	9.000	Off	N	10.5	35.5	60.0
13.518500	27.4	9.000	Off	N	10.6	32.6	60.0

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EMI Auto Test(1)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
13.563500	51.8	9.000	Off	N	10.6	8.2	60.0
13.712000	26.2	9.000	Off	N	10.6	33.8	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	24.8	9.000	Off	N	9.7	31.2	56.0
0.181500	21.1	9.000	Off	N	9.7	33.3	54.4
0.258000	21.5	9.000	Off	N	9.7	30.0	51.5
0.334500	20.0	9.000	Off	N	9.7	29.3	49.3
0.815000	18.0	9.000	Off	N	9.8	28.0	46.0
0.869000	16.8	9.000	Off	N	9.8	29.2	46.0
0.927500	17.7	9.000	Off	N	9.8	28.3	46.0
0.963500	18.2	9.000	Off	N	9.8	27.8	46.0
0.990500	20.5	9.000	Off	N	9.8	25.5	46.0
1.008500	17.4	9.000	Off	N	9.8	28.6	46.0
1.076000	19.0	9.000	Off	N	9.8	27.0	46.0
1.112000	19.5	9.000	Off	N	9.8	26.5	46.0
11.957000	15.8	9.000	Off	N	10.5	34.2	50.0
12.699500	16.8	9.000	Off	N	10.5	33.2	50.0
13.527500	19.4	9.000	Off	N	10.6	30.6	50.0
13.541000	19.7	9.000	Off	N	10.6	30.3	50.0
13.559000	50.3	9.000	Off	N	10.6	-0.3	50.0
13.712000	18.7	9.000	Off	N	10.6	31.3	50.0

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FCC PT.15.225 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-R-1403-F021-2	Date of Issue: March 21, 2014	EUT Type: Cellular/PCS GSM, WCDMA,LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625

Terminate the Antenna Conducted Emissions (Line 1)

EMI Auto Test(2)

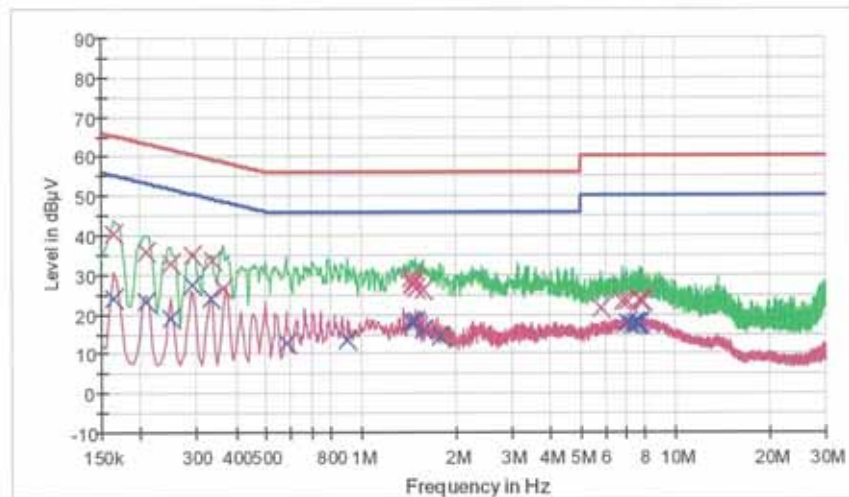
1 / 2

HCT TEST Report

Common Information

EUT: LG-D625
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE (TERMINATED)
 Operator Name: JC SHIN

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK
 — Preview Result 2-AVG — Final Result 1-QP — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.163500	40.4	9.000	Off	N	9.7	24.9	65.3
0.208500	35.9	9.000	Off	N	9.7	27.4	63.3
0.249000	32.7	9.000	Off	N	9.7	29.1	61.8
0.294000	34.8	9.000	Off	N	9.7	25.6	60.4
0.339000	33.6	9.000	Off	N	9.7	25.6	59.2
0.366000	26.6	9.000	Off	N	9.7	32.0	58.6
1.449500	28.9	9.000	Off	N	9.8	27.1	56.0
1.458500	27.4	9.000	Off	N	9.8	28.6	56.0
1.467500	28.0	9.000	Off	N	9.8	28.0	56.0
1.485500	26.5	9.000	Off	N	9.8	29.5	56.0
1.494500	29.0	9.000	Off	N	9.8	27.0	56.0
1.575500	26.2	9.000	Off	N	9.8	29.8	56.0
5.810000	21.5	9.000	Off	N	10.1	38.5	60.0
6.773000	23.1	9.000	Off	N	10.2	36.9	60.0
7.016000	23.2	9.000	Off	N	10.2	36.8	60.0
7.700000	23.7	9.000	Off	N	10.2	36.3	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
7.781000	23.7	9.000	Off	N	10.2	36.3	60.0
7.893500	23.4	9.000	Off	N	10.2	36.6	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.163500	24.1	9.000	Off	N	9.7	31.2	55.3
0.208500	23.2	9.000	Off	N	9.7	30.1	53.3
0.249000	19.0	9.000	Off	N	9.7	32.8	51.8
0.294000	27.5	9.000	Off	N	9.7	22.9	50.4
0.334500	23.9	9.000	Off	N	9.7	25.4	49.3
0.581000	12.7	9.000	Off	N	9.8	33.3	46.0
0.909500	13.7	9.000	Off	N	9.8	32.3	46.0
1.449500	18.2	9.000	Off	N	9.8	27.8	46.0
1.458500	17.6	9.000	Off	N	9.8	28.4	46.0
1.494500	18.2	9.000	Off	N	9.8	27.8	46.0
1.575500	15.9	9.000	Off	N	9.8	30.1	46.0
1.782500	14.5	9.000	Off	N	9.9	31.5	46.0
7.016000	17.6	9.000	Off	N	10.2	32.4	50.0
7.277000	17.5	9.000	Off	N	10.2	32.5	50.0
7.479500	17.6	9.000	Off	N	10.2	32.4	50.0
7.511000	17.3	9.000	Off	N	10.2	32.7	50.0
7.592000	17.5	9.000	Off	N	10.2	32.5	50.0
7.700000	17.9	9.000	Off	N	10.2	32.1	50.0

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Test Report No. HCT-R-1403-F021-2	Date of Issue: March 21, 2014	EUT Type: Cellular/PCS GSM, WCDMA,LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625

Conducted Emissions (Line 2)

EMI Auto Test(2)

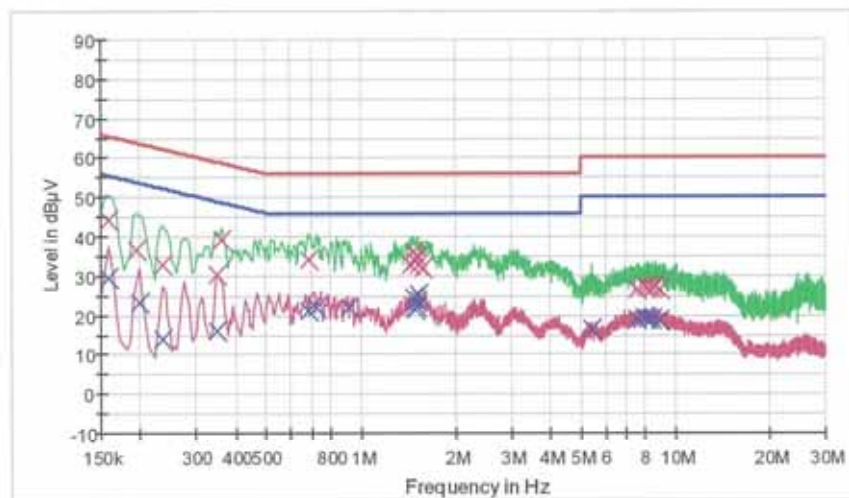
1 / 2

HCT TEST Report

Common Information

EUT: LG-D625
 Manufacturer: LG
 Test Site: SHIELD ROOM
 Operating Conditions: NFC MODE (TERMINATED)
 Operator Name: JC SHIN

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK
 — Preview Result 2-AVG x Final Result 1-QP x Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	44.2	9.000	Off	L1	9.7	21.3	65.5
0.195000	36.6	9.000	Off	L1	9.7	27.2	63.8
0.235500	32.9	9.000	Off	L1	9.7	29.4	62.3
0.352500	30.5	9.000	Off	L1	9.7	28.4	58.9
0.361500	39.3	9.000	Off	L1	9.7	19.4	58.7
0.580000	34.0	9.000	Off	L1	9.8	22.0	56.0
1.440500	33.0	9.000	Off	L1	9.8	23.0	56.0
1.472000	36.2	9.000	Off	L1	9.8	19.8	56.0
1.499000	33.6	9.000	Off	L1	9.8	22.4	56.0
1.508000	35.2	9.000	Off	L1	9.8	20.8	56.0
1.530500	32.8	9.000	Off	L1	9.8	23.2	56.0
1.584500	31.9	9.000	Off	L1	9.8	24.1	56.0
7.538000	26.6	9.000	Off	L1	10.2	33.4	60.0
7.938500	27.3	9.000	Off	L1	10.3	32.7	60.0
8.177000	26.9	9.000	Off	L1	10.3	33.1	60.0
8.411000	26.9	9.000	Off	L1	10.3	33.1	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
8.613500	27.2	9.000	Off	L1	10.3	32.8	60.0
8.978000	26.5	9.000	Off	L1	10.3	33.5	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	29.6	9.000	Off	L1	9.7	25.9	55.5
0.199500	23.3	9.000	Off	L1	9.7	30.3	53.6
0.235500	14.0	9.000	Off	L1	9.7	38.3	52.3
0.352500	16.2	9.000	Off	L1	9.7	32.7	48.9
0.684500	21.1	9.000	Off	L1	9.8	24.9	46.0
0.720500	22.1	9.000	Off	L1	9.8	23.9	46.0
0.923000	22.1	9.000	Off	L1	9.8	23.9	46.0
1.472000	24.5	9.000	Off	L1	9.8	21.5	46.0
1.499000	21.3	9.000	Off	L1	9.8	24.7	46.0
1.508000	22.4	9.000	Off	L1	9.8	23.6	46.0
1.517000	23.7	9.000	Off	L1	9.8	22.3	46.0
1.526000	25.2	9.000	Off	L1	9.8	20.8	46.0
5.432000	16.5	9.000	Off	L1	10.1	33.5	50.0
7.538000	19.1	9.000	Off	L1	10.2	30.9	50.0
7.938500	19.4	9.000	Off	L1	10.3	30.6	50.0
8.177000	19.0	9.000	Off	L1	10.3	31.0	50.0
8.411000	19.1	9.000	Off	L1	10.3	30.9	50.0
8.978000	18.7	9.000	Off	L1	10.3	31.3	50.0

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12. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Interval	Calibration Due	Serial No.
Rohde & Schwarz	ENV216/ LISN	Annual	01/29/2015	100073
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/17/2014	3150
Rohde & Schwarz	ESI 40 / EMI TEST RECEIVER	Annual	04/16/2014	831564103
Agilent	E4440A/ Spectrum Analyzer	Annual	04/25/2014	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	Annual	05/14/2014	MY51110063
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	Annual	09/10/2014	10094
CERNEX	CBL18265035 / POWER AMP	Annual	07/24/2014	22966
CERNEX	CBL26405040 / POWER AMP	Annual	04/16/2014	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	07/05/2015	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	Biennial	10/30/2014	BBHA9170124
Rohde & Schwarz	FSP / Spectrum Analyzer	Annual	01/24/2015	839117/011
Agilent	N1911A/Power Meter	Annual	01/24/2015	MY45100523
Agilent	N1921A /POWER SENSOR	Annual	07/11/2014	MY45241059
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	Annual	02/03/2015	F6
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	Annual	04/16/2014	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	Annual	04/16/2014	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	Annual	06/24/2014	1
Hewlett Packard	11636B/Power Divider	Annual	10/22/2014	11377
Agilent	87300B/Directional Coupler	Annual	12/18/2014	3116A03621
Hewlett Packard	11667B / Power Splitter	Annual	05/29/2014	05001
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	10/29/2014	3110117
ITECH	IT6720 / DC POWER SUPPLY	Annual	11/05/2014	010002156287001199
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	04/24/2014	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	04/25/2014	100422
EMCO	6502.LOOP ANTENNA	Biennial	01/27/2016	9009-2536
Agilent	8493C / Attenuator(10 dB)	Annual	07/24/2014	76649
WEINSCHL	2-3 / Attenuator(3 dB)	Annual	10/28/2014	BR0617
CERNEX	CBL06185030 / POWER AMP	Annual	07/24/2014	22965
CERNEX	CBLU1183540 / POWER AMP	Annual	07/24/2014	22964