

### HAC RF EMISSIONS TEST REPORT

### **CLASS II PERMISSIVE CHANGE**

FCC 47 CFR § 20.19 ANSI C63.19-2011

For CDMA/LTE PHONE + BLUETOOTH, & DTS/UNII a/b/g/n

> FCC ID: ZNFLS770 Model(s): LG-LS770, LS770, LGLS770

> > Report Number: 15I20150-S3 Issue Date: 3/26/2015

Prepared for LG ELECTRONICS MOBILECOMM U.S.A., INC. 1000 SYLVAN AVE. ENGLEWOOD CLIFFS, NJ 07632

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NVLAP LAB CODE 200065-0

### **Revision History**

Rev.	Date	Revisions	Revised By
	3/26/2015	Initial Issue	

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# 1. Attestation of Test Results

Applicant Name	LG ELECTRONICS MOBILECOMM U.S.A., INC.
FCC ID	ZNFLS770
Model Name(s)	LG-LS770, LS770, LGLS770
Applicable Standards	FCC 47 CFR § 20.19 ANSI C63.19-2011 Published RF exposure KDB procedures
Device Category	Portable
Exposure Category	General Population/Uncontrolled Exposure
HAC Rating	M4
Date Tested	3/9/2015 to 3/11/2015
Test Results	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.

Prepared By:

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Laboratory Engineer

UL Verification Services Inc.

Approved & Released By:

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### 2. Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.19-2011 Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids, FCC published KDB 285076 D01 HAC Guidance v04 and TCB workshop updates.

## 3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

47173 Benicia Street	47266 Benicia Street
SAR Lab C	SAR Lab 2

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <a href="http://ts.nist.gov/standards/scopes/2000650.htm">http://ts.nist.gov/standards/scopes/2000650.htm</a> Calibration and Uncertainty

## 4. Calibration and Uncertainty

### 4.1. Measuring Instrument Calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due date		
Name of Equipment	Manufacturer Type/Moder		Senarino.	MM	DD	Year
HP Signal Generator	HP	8665B	3546A00784	6	23	2015
Power Meter	HP	437B	3125U09516	10	6	2015
Power Meter	Agilent	N1911A	MY53060016	8	7	2015
Power Sensor	Agilent	E9323A	MY53070003	5	1	2015
Power Sensor	Agilent	8481A	3318A95392	10	6	2015
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1622052		N/A	١
Bi-directional coupler	Werlatone, Inc.	C8060-102	2711	711 N/A		1
DC Power Supply	Sorensen Ametek	XT20-3	1318A00530		N/A	
Robot Remote Control	Stäubli	CS8C	N/A		N/A	1
DASY5 Measurement Server	SPEAG	SEUMS001BA	1041		N/A	1
Probe Alignment Unit	SPEAG	LB (V2)	261		N/A	1
Data Acquisition Electronics	SPEAG	DAE4	1259	1	14	2016
Radio Communication Tester	R &S	CMU 500	125326	5	29	2015
E-Field Probe	SPEAG	ER3DV6*	2450	8	26	2015
Calibration Dipole	SPEAG	CD835V3	1175	5	19	2015
Calibration Dipole	SPEAG	CD1880V3	1159	5	19	2015
Calibration Dipole	SPEAG	CD2600V3	1008	8	21	2015

#### Note(s):

\*: According to SPEAG's Technical Report, "MIF Verification", Doc # TR-FB-12.09.04-1, issued date: 9/4/2012. E-field probes are calibrated with specified uncertainty according to ISO 17025 as described in their calibration certificate. The MIF according to the definition in ANSI C63.19 is specific for a modulation and can therefore be used as a constant value if the probe has been PMR calibrated.

### 4.2. Measurement Uncertainty

HAC Uncertainty Budget According to ANSI C63.19

Error Description	Uncertainty	Probe Dist.	Div.	(Ci) E	(Ci) H	Std. Unc.(±%)		
End Description	value (±%)	TTODE DISt.	Div.			E	Н	
Measurement System								
Probe Calibration	5.1	Ν	1	1	1	5.1	5.10	
Axial Isotropy	4.7	R	1.732	1	1	2.7	2.71	
Sensor Displacement	16.5	R	1.732	1	0.145	9.5	1.38	
Boundary Effects	2.4	R	1.732	1	1	1.4	1.39	
Phantom Boundary Effects	7.2	R	1.732	1	0	4.1	0.00	
Linearity	4.7	R	1.732	1	1	2.7	2.71	
Scaling to PMR Calibration	10.0	R	1.732	1	1	2.8	5.77	
System Detection Limit	1.0	R	1.732	1	1	0.6	0.58	
Readout Electronics	0.3	Ν	1	1	1	0.3	0.30	
Response Time	0.8	R	1.732	1	1	0.5	0.46	
Integration Time	2.6	R	1.732	1	1	1.5	1.50	
RF Ambient Conditions	3.0	R	1.732	1	1	1.7	1.73	
RF Reflections	12.0	R	1.732	1	1	6.9	6.93	
Probe Positioner	1.2	R	1.732	1	0.67	0.7	0.46	
Probe Positioning	4.7	R	1.732	1	0.67	2.7	1.82	
Extrapolation and Interpolation	1.0	R	1.732	1	1	0.6	0.58	
Test sample Related								
Test Positioning Vertical	4.7	R	1.732	1	0.67	2.7	1.82	
Test Positioning Lateral	1.0	R	1.732	1	1	0.6	0.58	
Device Holder and Phantom	2.4	R	1.732	1	1	1.4	1.39	
Power Drift	5.0	R	1.732	1	1	2.9	2.89	
Phantom and Setup Related								
Phantom Thickness	2.4	R	1.732	1	0.67	1.4	0.93	
Combined Std. Uncertainty						15.4	12.2	
Expanded Std. Uncertainty on Power						30.8	24.4	
Expanded Std. Uncertainty on Field						15.4	12.2	
Notesfor table								
1. N - Nomal								
2. R - Rectangular								
2 Div. Divisor used to obtain standard upo	ortainty							

3. Div. - Divisor used to obtain standard uncertainty

4. Ci - is te sensitivity coefficient

## 5. Device Under Test

Normal operation	Held to head
	⊠ Normal Battery Cover
	Smart Cover
Back Cover	Wireless Charger Battery Cover
	Wireless Charger Battery Cover with NFC
	$\Box$ The rechargeable battery is not user accessible.

#### 5.1. Air Interfaces and Operating Mode

Air- Interface	Bands (MHz)	Type Transport	HAC Tested	Simultaneous but not Tested	Concurrent HAC Tested or not Tested	Voice over digital Transport OTT Capability	Wi-Fi Low Power	Additional GSM Power Reduction
CDMA	850 / 1900	VD	Yes	Yes – Wi-Fi/BT	Not tested <sup>1</sup>	NA	NA	NA
EVDO	850 / 1900	DT	No	Yes – Wi-Fi/BT	NA	NA	NA	NA
LTE-FDD	2/4/5/12/25/ 26	VD	No <sup>2</sup>	Yes – Wi-Fi/BT	Not tested <sup>1</sup>	Yes	NA	NA
LTE-TDD	41	VD	Yes <sup>2</sup>	Yes – Wi-Fi/BT	Not tested <sup>1</sup>	Yes	NA	NA
Wi-Fi	2400	DT	No	Yes – WWAN	Not tested <sup>1</sup>	NA	No	NA
Wi-Fi	5000	DT	No	Yes – WWAN	Not tested <sup>1</sup>	NA	No	NA
BT	2400	DT	No	Yes – WWAN	Not tested <sup>1</sup>	NA	NA	NA
Type Tra	Type Transport Note:							

VO = Voice only

DT = Digital Transport

VD = CMRS and Data transport (HAC Tested)

No concurrent mode was found to be the Worst Case mode 1.

No associated T-Coil measurement has been made in 2. accordance with 285076 D02 T-Coil testing for CMRS IP from October 2013 TCB workshop.

## 6. System Specifications

E-field measurements are performed using the DASY5 automated dosimetric assessment system. The DASY5 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland.

The DASY5 HAC Extension consists of the following parts:

#### **Test Arch Phantom**

The specially designed Test Arch allows high precision positioning of both the device and any of the validation dipoles.

#### **ER3DV6 Isotropic E-Field Probe**

Construction:	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration:	In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$ , k=2)
Frequency:	100 MHz to > 6 GHz; Linearity: ± 0.2 dB (100 MHz to 3 GHz)
Directivity:	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)
Dynamic Range:	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB
Dimensions:	Overall length: 330 mm (Tip: 16 mm) Tip diameter: 8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.5 mm The closest part of the sensor element is 1.1 mm closer to the tip
Application:	General near-field measurements up to 6 GHz Field component measurements

## 7. System Validation

The test setup was validated when first configured and verified periodically thereafter to ensure proper function. The procedure provided in this section is a validation procedure using dipole antennas for which the field levels were computed by numeric modeling.

#### Procedure

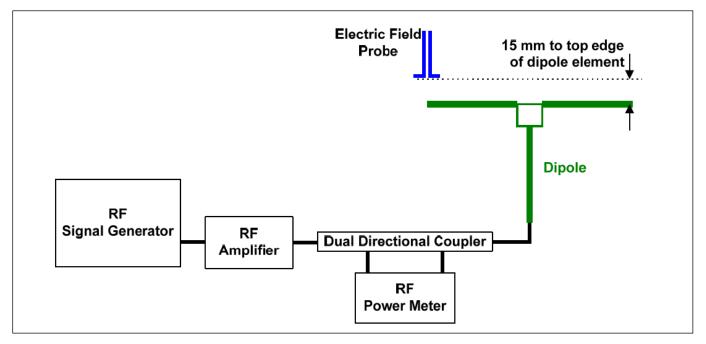
Place a dipole antenna meeting the requirements given in ANSI C63.19-2011 in the normally occupied by the WD.

The dipole antenna serves as a known source for an electrical and magnetic output. Position the E-field probe so that the following occurs:

- · The probes and their cables are parallel to the coaxial feed of the dipole antenna
- The probe cables and the coaxial feed of the dipole antenna approach the measurement area from opposite directions
- The center point of the probe element(s) is 15 mm from the closest surface of the dipole elements.

Scan the length of the dipole with the E-field probe and record the two maximum values found near the dipole ends. Average the two readings and compare the reading to the expected value in the calibration certificate or the expected value in this standard.





### 7.1. System Validation Results

		Input Power (mW)	Max. measured from		Average max.	E-field Target	Deviation <sup>1)</sup>
Calibration Dipole	f (MHz)		above high end (V/m)	above low end (V/m)	above arm (V/m)	Values (V/m) (From SPEAG)	(%)
CD835V3 SN 1175	835	100	118.10	114.00	116.05	107.0	8.46
CD1880V3 SN 1159	1880	100	85.10	89.13	87.12	89.40	-2.56
CD2600V3 SN 1008	2600	100	79.15	80.48	79.82	85.60	-6.76

#### Notes:

1) Delta (Deviation) % = 100 \* (Measured value minus Target value) divided by the Target value. Deltas within ±25% are acceptable, of which 12% is deviation and 13% is measurement uncertainty.

2) The maximum E-field or were evaluated and compared to the target values provided by SPEAG in the calibration certificate of specific dipoles.

3) Please refer to the appendix for detailed measurement data and plots.

## 8. Modulation Interference Factor (MIF)

The HAC Standard ANSI C63.19-2011 defines a new scaling using the Modulation Interference Factor (MIF) which replaces the need for the Articulation Weighting Factor (AWF) during the evaluation and is applicable to any modulation scheme.

The Modulation Interference factor (MIF, in dB) is added to the measured average E-field (in dBV/m) and converts it to the RF Audio Interference level (in dBV/m). This level considers the audible amplitude modulation components in the RF E-field. CW fields without amplitude modulation are assumed to not interfere with the hearing aid electronics. Modulations without time slots and low fluctuations at low frequencies have low MIF values, TDMA modulations with narrow transmission and repetition rates of few 100 Hz have high MIF values and give similar classifications as ANSI C63-2007.

#### Definitions

ER3D, E-field probes have a bandwidth <10 kHz and can therefore not evaluate the RF envelope in the full audio band. DASY52 is therefore using the "indirect" measurement method according to ANSI C63.19-2011 which is the primary method. These near field probes read the averaged E-field measurement. Especially for the new high peak-to-average (PAR) signal types, the probes shall be linearized by probe modulation response (PMR) calibration in order to not overestimate the field reading.

The evaluation method or the MIF is defined in ANSI C63.19-2011 section D.7. An RMS demodulated RF signal is fed to a spectral filter (similar to an A weighting filter) and forwarded to a temporal filter acting as a quasi-peak detector. The averaged output of these filtering is called to a 1 kHz 80% AM signal as reference. MIF measurement requires additional instrumentation and is not well suited for evaluation by the end user with reasonable uncertainty It may alternatively be determined through analysis and simulation, because it is constraint and characteristic for a communication signal. DASY52 uses well defined signals for PMR calibration. The MIF of these signals has been determined by simulation and is automatically applied.

MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for all the air interfaces (GSM, WCDMA, CDMA, LTE). The data included in this report are for the worst case operating modes. The UIDs used are listed below:

UID	Communication System Name	MIF (dB)
10295-AAB	CDMA2000 (1xRTT, RC1, SO3, 1/8 <sup>th</sup> Rate 25 fr.)	3.26
10170-CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-9.76
10182-CAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16QAM)	-9.76
10176-CAB	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-9.76
10173-CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-1.44

A PMR calibrated probe is linearized for the selected waveform over the full dynamic range within the uncertainty specified in its calibration certificate. ER3D, EF3D and EU2D E-field probes have a bandwidth <10 kHz and can therefore not evaluate the RF envelope in the full audio band. DASY52 is therefore using the \indirect" measurement method according to ANSI C63.19-2011 which is the primary method. These near field probes read the averaged E-field measurement. Especially for the new high peak-to-average (PAR) signal types, the probes shall be linearized by PMR calibration in order to not overestimate the field reading.

The MIF measurement uncertainty is estimated as follows, for modulation frequencies from slotted waveforms with fundamental frequency and at least 2 harmonics within 10 kHz:

- 0.2 dB for MIF -7 to +5 dB,
- 0.5 dB for MIF -13 to +11 dB
- 1 dB for MIF > -20 dB

## 9. Average Antenna Input Power & Evaluation for Low-power Exemption

An RF air interface technology of a device is exempt from testing when its average antenna input power plus its **MIF is \leq17 dBm** for any of its operating modes. If a device supports multiple RF air interfaces, each RF air interface shall be evaluated individually.

Air-Interface	Average Antenna Input Power (dBm) <sup>1</sup>	MIF (dB)	Input Power plus its MIF (dBm)	HAC Tested
CDMA BC0	24.7	3.26	27.96	Yes
CDMA BC1	24.2	3.26	27.46	Yes
CDMA BC10	25.0	3.26	28.26	Yes
LTE Band 2	23.7	-9.76	13.94	No
LTE Band 4	23.7	-9.76	13.94	No
LTE Band 5	24.0	-9.76	14.24	No
LTE Band 12	24.0	-9.76	14.24	No
LTE Band 25	23.7	-9.76	13.94	No
LTE Band 26	24.0	-9.76	14.24	No
LTE Band 41	24.4	-1.44	22.96	Yes

#### Note(s):

1. Max tune-up limit

### **Conclusions**

RF Emission testing for this device is required for CDMA voice mode and LTE Band 41 only

## 10. HAC RF Emissions Test Procedure

The following are step-by-step test procedures.

- a) Confirm proper operation of the field probe, probe measurement system and other instrumentation and the positioning system.
- b) Position the WD in its intended test position.
- c) Set the WD to transmit a fixed and repeatable combination of signal power and modulation characteristic that is representative of the worst case (highest interference potential) encountered in normal use. Transiently occurring start-up, changeover, or termination conditions, or other operations likely to occur less than 1% of the time during normal operation, may be excluded from consideration.
- d) The center sub-grid shall be centered on the T-Coil mode perpendicular measurement point or the acoustic output, as appropriate. Locate the field probe at the initial test position in the 50 mm by 50 mm grid, which is contained in the measurement plane, refer to illustrated in Figure 1. If the field alignment method is used, align the probe for maximum field reception.
- e) Record the reading at the output of the measurement system
- f) Scan the entire 50 mm by 50 mm region in equally spaced increments and record the reading at each measurement point. The distance between measurement points shall be sufficient to assure the identification of the maximum reading.
- g) Identify the five contiguous sub-grids around the center sub-grid whose maximum reading is the lowest of all available choices. This eliminates the three sub-grids with the maximum readings. Thus, the six areas to be used to determine the WD's highest emissions are identified.
- h) Identify the maximum reading within the non-excluded sub-grids identified in step g).
- i) Convert the highest field reading within identified in step h) to RF audio interference level, in V/m, by taking the square root of the reading and then dividing it by the measurement system transfer function, established in 5.5.1.1 Convert this result to dB(V/m) by taking the base-10 logarithm and multiplying by 20.

#### Indirect measurement method

Replacing step i), the RF audio interference level in dB (V/m) is obtained by adding the MIF (in dB) to the maximum steady-state rms field-strength reading, in dB (V/m), from step h). Use this result to determine the category rating

- j) Compare this RF audio interference level with the categories in Clause 8 (ANSI C63.19-2011) and record the resulting WD category rating
- k) For the T-Coil mode M-rating assessment, determine whether the chosen perpendicular measurement point is contained in an included sub-grid of the first scan. If so, then a second scan is not necessary. The first scan and resultant category rating may be used for the T-Coil mode M rating.

Otherwise, repeat step a) through step i), with the grid shifted so that it is centered on the perpendicular measurement point. Record the WD category rating.

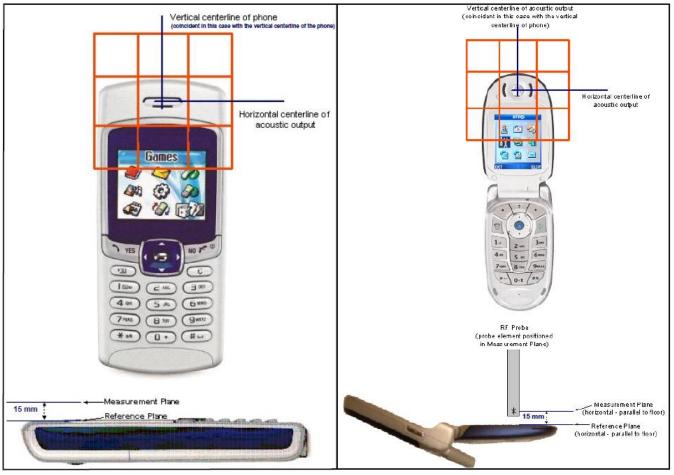
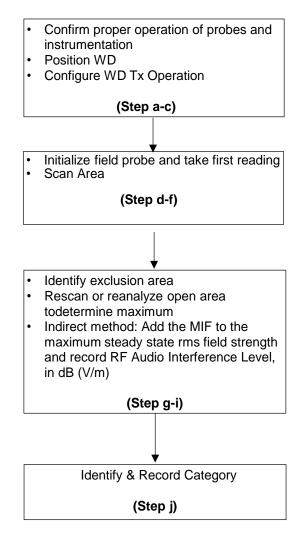


Figure 1 - WD reference and plane for RF emission measurements

### Test flowchart Per ANSI-PC63.19 2011



#### Test Instructions

## 11. RF Emissions Measurement Criteria

WD RF audio interference level caterories in logarithmic units

	E-field emissions			
Emission Categories	< 960 MHz	> 960 MHz		
Category M1	50 to 55 dB (V/m)	40 to 45 dB (V/m)		
Category M2	45 to 50 dB (V/m)	35 to 40 dB (V/m)		
Category M3	40 to 45 dB (V/m)	30 to 35 dB (V/m)		
Category M4	<40 dB (V/m)	<30 dB (V/m)		

## 12. HAC (RF Emissions) Test Results

MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for the following User Identifiers and air interfaces.

The data included in this report are for the worst case operating modes. Refer to Appendix D and G for the MIF vales that represent the worst case operation modes.

#### With Stylus

Air-Interface	Ch. No.	Freq. (MHz)	Results* (dB V/m)	M-Rating	Plots Page #
CDMA2000	1013	824.7	29.53	M4	1
	384	836.6	29.51	M4	2
BC0	777	848.31	29.13	M4	3
001440000	25	1851.25	24.81	M4	4
CDMA2000 BC1	600	1880	26.66	M4	5
	1175	1908.75	24.69	M4	6
001440000	476	817.9	28.02	M4	7
CDMA2000	580	821	28.13	M4	8
BC10	684	823.1	29.12	M4	9
	39750	2506	20.15	M4	10
LTE	40185	2549.5	19.00	M4	11
	40620	2593	19.01	M4	12
Band 41	41055	2636.5	19.84	M4	13
	41490	2680	20.31	M4	14
LTE Bands 2/4/5/12/25/26	Exempt	from testing. Plesa	ae refer to Section	10 for more deta	iils.

#### Note(s):

\*: Measured Audio Interference level in dB (V/m): indirect method (max rms field strength Plus MIF)

\*\*: According to the last paragraph of Section 8, the MIF measurement uncertainty is estimated to be 0.2 dB for MIF -7 to + 5 dB. The maximum E-field result of 26.66 dB V/m plus measurement uncertainty of 0.2 dB is 26.86 dB V/m, which is still within a M4 rating

### Without Stylus

Air-Interface	Ch. No.	Freq. (MHz)	Results* (dB V/m)	M-Rating	Plots Page #
CDMA2000	1013	824.7	31.37	M4	15
	384	836.6	29.30	M4	16
BC0	777	848.31	29.10	M4	17
000400000	25	1851.25	24.74	M4	18
CDMA2000	600	1880	24.50	M4	19
BC1	1175	1908.75	24.69	M4	20
CDM4 2000	476	817.9	27.78	M4	21
CDMA2000 BC10	580	821	28.01	M4	22
	684	823.1	29.18	M4	23
	39750	2506	20.59	M4	24
LTE	40185	2549.5	18.22	M4	25
Band 41	40620	2593	18.52	M4	26
Band 41	41055	2636.5	19.22	M4	27
	41490	2680	20.04	M4	28
LTE Bands 2/4/5/12/25/26	Exempt from testing. Plesae refer to Section 10 for more details.				

#### With Cover

Air-Interface	Ch. No.	Freq. (MHz)	Results* (dB V/m)	M-Rating	Plots Page #
CDMA2000	1013	824.7	29.77	M4	29
	384	836.6	29.79	M4	30
BC0	777	848.31	28.77	M4	31
CDMA2000	25	1851.25	25.15	M4	32
BC1	600	1880	24.38	M4	33
BCT	1175	1908.75	24.80	M4	34
CDM42000	476	817.9	28.53	M4	35
CDMA2000	580	821	28.67	M4	36
BC10	684	823.1	29.97	M4	37
	39750	2506	20.36	M4	38
LTE	40185	2549.5	19.23	M4	39
Band 41	40620	2593	18.61	M4	40
Ballu 41	41055	2636.5	20.80	M4	41
	41490	2680	19.61	M4	42
LTE Bands 2/4/5/12/25/26	Exempt from testing. Plesae refer to Section 10 for more details.				

Date: 3/9/2015

### 12.1. Worst Case RF Emission Test Plot

Test Laboratory: UL Verification Services Inc., SAR Lab 2

### HAC-RFE CDMA BC1

Communication System: UID 10295 - AAA, CDMA2000, RC1, SO3, 1/8th Rate 25 fr.; Frequency: 1880 MHz; Duty Cycle: 1:17.7419

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 8/26/2014;

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1259; Calibrated: 1/14/2015

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### CDMA BC1 E-Field measurement/RC1\_SO3\_Ch 600/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm Reference Value = 8.736 V/m; Power Drift = 0.10 dB

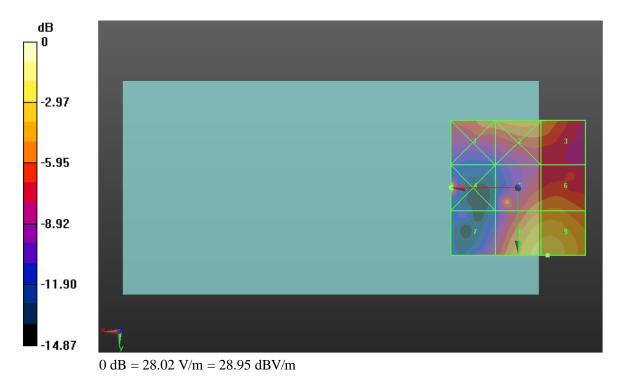
Applied MIF = 3.26 dB

RF audio interference level = 26.66 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 <b>M4</b> 24.16 dBV/m	Grid 3 <b>M4</b> 24.28 dBV/m
Grid 4 <b>M4</b> 28.95 dBV/m	Grid 6 <b>M4</b> 24.3 dBV/m
Grid 7 <b>M4</b> 21.04 dBV/m	Grid 9 <b>M4</b> 26.66 dBV/m



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## Appendixes

Refer to separated files for the following appendixes

- A\_15I20150v0 Setup Photo
- B\_15I20150v0 System Validation Plots
- C\_15I20150v0 RF Emissions Test Plots
- D\_15I20150v0 MIF Attestation Letter
- E\_15I20150v0 Probe Cal. Certificates
- F\_15I20150v0 Dipole Cal. Certificates
- G\_15I20150v0 UID Specification

END OF REPORT