



**FCC CFR47 PART 20.19  
ANSI C63.19-2011**

**HAC RF EMISSIONS TEST REPORT**

*For*  
**CDMA/LTE Phone with Bluetooth & WLAN (2.4GHz/5GHz) and NFC**

**Model: LG-VS876, VS876, LGVS876, LG-AS876, AS876, LGAS876  
FCC ID: ZNFVS876**

**REPORT NUMBER: 13U16594-8  
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**NVLAP LAB CODE 200065-0**

Revision History

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## Table of Contents

|                                                     |           |
|-----------------------------------------------------|-----------|
| <b>1. Attestation of Test Results .....</b>         | <b>4</b>  |
| <b>2. Test Methodology .....</b>                    | <b>5</b>  |
| <b>3. Facilities and Accreditation .....</b>        | <b>5</b>  |
| <b>4. Calibration and Uncertainty .....</b>         | <b>6</b>  |
| 4.1. <i>Measuring Instrument Calibration.....</i>   | <i>6</i>  |
| 4.2. <i>Measurement Uncertainty.....</i>            | <i>7</i>  |
| <b>5. Device Under Test .....</b>                   | <b>8</b>  |
| 5.1. <i>Air Interfaces and Operating Mode.....</i>  | <i>8</i>  |
| <b>6. System Specifications.....</b>                | <b>9</b>  |
| <b>7. System Validation .....</b>                   | <b>10</b> |
| 7.1. <i>System Validation Results.....</i>          | <i>11</i> |
| <b>8. Modulation Interference Factor (MIF).....</b> | <b>12</b> |
| <b>9. Average Antenna Input Power .....</b>         | <b>13</b> |
| <b>10. Evaluation for Low-power Exemption.....</b>  | <b>13</b> |
| <b>11. HAC RF Emissions Test Procedure .....</b>    | <b>14</b> |
| <b>12. RF Emissions Measurement Criteria .....</b>  | <b>17</b> |
| <b>13. HAC (RF Emissions) Test Results.....</b>     | <b>17</b> |
| <b>14. UID 10081-CAA CDMA Specification.....</b>    | <b>18</b> |

## 1. Attestation of Test Results

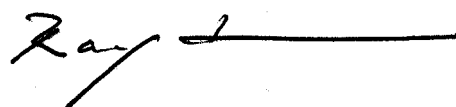
|                     |                                                            |
|---------------------|------------------------------------------------------------|
| Applicant name      | LG ELECTRONICS MOBILECOMM U.S.A., INC.                     |
| DUT description     | CDMA/LTE Phone with Bluetooth & WLAN (2.4GHz/5GHz) and NFC |
| Model name          | LG-VS876, VS876, LGVS876, LG-AS876, AS876, LGAS876         |
| Test device is      | An identical prototype                                     |
| Device category     | Portable                                                   |
| Exposure category   | General Population/Uncontrolled Exposure                   |
| Date tested         | N/A                                                        |
| HAC rating          | M4                                                         |
| Applicable standard | ANSI C63.19-2011                                           |
| 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.

Approved & Released By:

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WiSE Laboratory Engineer  
UL Verification Services Inc.

## **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 v03r01 and TCB workshop updates.

## **3. Facilities and Accreditation**

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

## 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 |    |      |
|------------------------------|--------------|-------------------|------------|---------------|----|------|
|                              |              |                   |            | MM            | DD | Year |
| Synthesized Signal Generator | HP           | 8665B             | 3546A00784 | 5             | 7  | 2014 |
| Power Meter                  | HP           | 437B              | 3125U12345 | 3             | 26 | 2014 |
| Power Sensor A               | HP           | 8481A             | 1926A16917 | 8             | 28 | 2014 |
| Power Sensor B               | Agilent      | E9323A            | US40411556 | 8             | 9  | 2014 |
| Amplifier                    | Sorensen     | XT 20-3           | 1318A00529 | N/A           |    |      |
| Directional coupler          | Werlatone    | C8060-102         | 2711       | N/A           |    |      |
| Robot - Six Axes             | Stäubli      | TX90 XL           | N/A        | N/A           |    |      |
| Robot Remote Control         | Stäubli      | CS8C              | N/A        | N/A           |    |      |
| DASY5 Measurement Server     | SPEAG        | SEUMS001BA        | 1041       | N/A           |    |      |
| Probe Alignment Unit         | SPEAG        | LB (V2)           | 261        | N/A           |    |      |
| Data Acquisition Electronics | SPEAG        | DAE4              | 1258       | 3             | 6  | 2014 |
| Radio Communication Tester   | R &S         | CMU 200           | 106301     | 7             | 3  | 2014 |
| E-Field Probe                | SPEAG        | ER3DV6*           | 2509       | 5             | 29 | 2014 |
| Calibration Dipole           | SPEAG        | CD835V3           | 1175       | 5             | 21 | 2014 |
| Calibration Dipole           | SPEAG        | CD1880V3          | 1159       | 5             | 21 | 2014 |
| Amplifier                    | MITEQ        | 4D00400600-50-30P | 1620606    | N/A           |    |      |
| Directional coupler          | Werlatone    | C8060-102         | 2141       | N/A           |    |      |

#### 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 value (±%) | Probe Dist. | Div.  | (Ci) E | (Ci) H | Std. Unc.(±%) |      |
|-------------------------------------------------------|------------------------|-------------|-------|--------|--------|---------------|------|
|                                                       |                        |             |       |        |        | E             | H    |
| Measurement System                                    |                        |             |       |        |        |               |      |
| Probe Calibration                                     | 5.1                    | N           | 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                    | N           | 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                                    |                        |             |       |        |        |               |      |
| 3. Div. - Divisor used to obtain standard uncertainty |                        |             |       |        |        |               |      |
| 4. Ci - is te sensitivity coefficient                 |                        |             |       |        |        |               |      |

## 5. Device Under Test

### CDMA/LTE Phone + Bluetooth & WLAN (2.4GHz/5GHz) and NFC

#### 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 | WiFi Low Power | Additional GSM Power Reduction |
|----------------------------------------------------------------------------------------------------------|---------------|----------------|-----------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|--------------------------------|
| CDMA                                                                                                     | BC0 (850)     | VD             | Yes             | Yes – LTE, WiFi/BT          | Not tested <sup>1</sup>                                                                                                                                                                                                                                                                       | NA                                          | NA             | NA                             |
| CDMA                                                                                                     | BC1 (1900)    | VD             | Yes             | Yes – LTE, WiFi/BT          | Not tested <sup>1</sup>                                                                                                                                                                                                                                                                       | NA                                          | NA             | NA                             |
| CDMA                                                                                                     | EVDO          | DT             | Yes             | Yes - WiFi/BT               | Not tested <sup>1</sup>                                                                                                                                                                                                                                                                       | NA                                          | NA             | NA                             |
| LTE                                                                                                      | Band 4 (1700) | VD             | No <sup>2</sup> | Yes - WiFi/BT               | Not tested <sup>2</sup>                                                                                                                                                                                                                                                                       | Yes                                         | NA             | NA                             |
| LTE                                                                                                      | Band 13 (700) | VD             | No <sup>2</sup> | Yes - WiFi/BT               | Not tested <sup>2</sup>                                                                                                                                                                                                                                                                       | Yes                                         | NA             | NA                             |
| WiFi                                                                                                     | 2400          | DT             | No              | Yes – LTE or WCDMA          | NA                                                                                                                                                                                                                                                                                            | Yes                                         | No             | NA                             |
| WiFi                                                                                                     | 5200          | DT             | No              | Yes – LTE or WCDMA          | NA                                                                                                                                                                                                                                                                                            | Yes                                         | No             | NA                             |
| WiFi                                                                                                     | 5300          | DT             | No              | Yes – LTE or WCDMA          | NA                                                                                                                                                                                                                                                                                            | Yes                                         | No             | NA                             |
| WiFi                                                                                                     | 5500          | DT             | No              | Yes – LTE or WCDMA          | NA                                                                                                                                                                                                                                                                                            | Yes                                         | No             | NA                             |
| WiFi                                                                                                     | 5800          | DT             | No              | Yes – LTE or WCDMA          | NA                                                                                                                                                                                                                                                                                            | Yes                                         | No             | NA                             |
| BT                                                                                                       | 2400          | DT             | No              | Yes – LTE or WCDMA          | NA                                                                                                                                                                                                                                                                                            | NA                                          | NA             | NA                             |
| Type Transport<br>VO = Voice only<br>DT = Digital Transport<br>VD = CMRS and Data transport (HAC Tested) |               |                |                 |                             | 1. No concurrent mode was found to be the Worst Case mode<br>2. LTE VoLTE CMRS Services were not be tested for M and T rating per exemption permitted by 20.19 rule change (DA 12-500) which established a one year grace period from Aug 18 2012 to Aug 18 2013 for LTE VoLTE CMRS Services. |                                             |                |                                |



## 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., glycoether)                          |
| Calibration:   | In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$ , $k=2$ )                                                                                                                            |
| Frequency:     | 100 MHz to > 6 GHz; Linearity: $\pm 0.2$ dB (100 MHz to 3 GHz)                                                                                                                                     |
| Directivity:   | $\pm 0.2$ dB in air (rotation around probe axis)<br>$\pm 0.4$ dB in air (rotation normal to probe axis)                                                                                            |
| Dynamic Range: | 2 V/m to > 1000 V/m; Linearity: $\pm 0.2$ dB                                                                                                                                                       |
| Dimensions:    | Overall length: 330 mm (Tip: 16 mm)<br>Tip diameter: 8 mm (Body: 12 mm)<br>Distance from probe tip to dipole centers: 2.5 mm<br>The closest part of the sensor element is 1.1 mm closer to the tip |
| Application:   | General near-field measurements up to 6 GHz<br>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

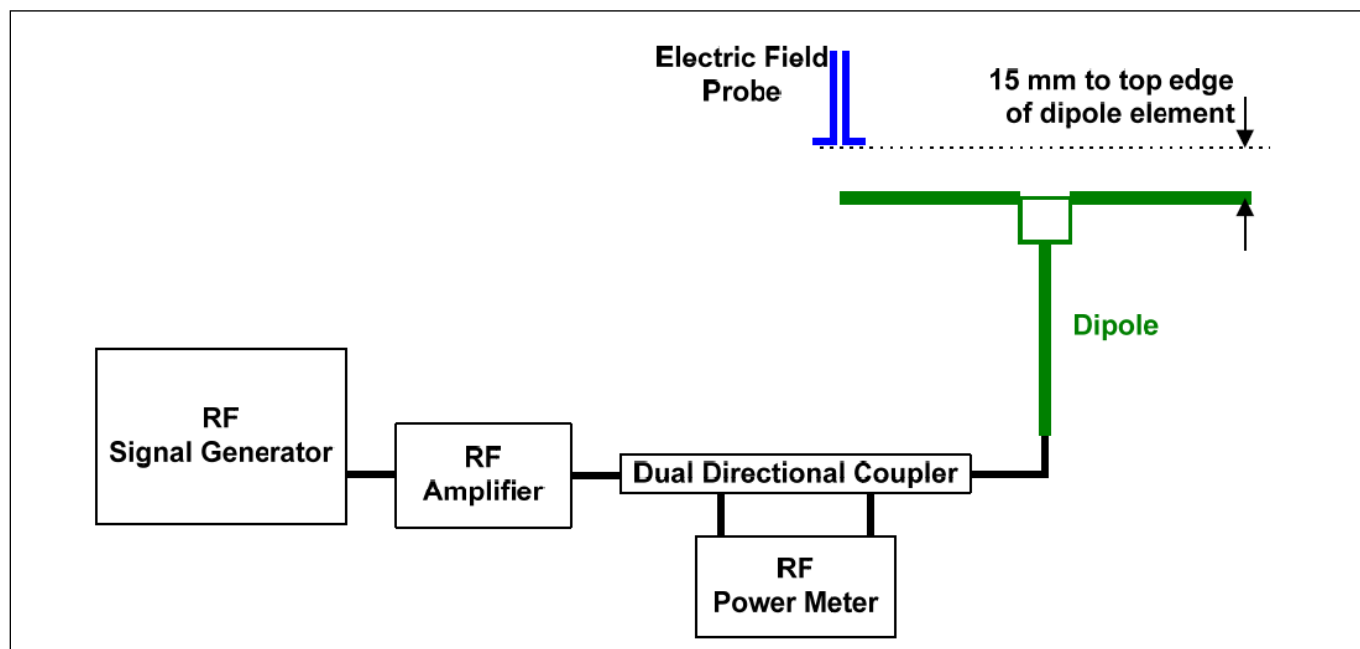
Place a dipole antenna meeting the requirements given in ANSI C63.19-2011 in the normally occupied by the WD.

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.

Setup diagram



## **7.1. System Validation Results**

Not applicable

## 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). For GSM, User Identifier (UID) 10021 was used; for WCDMA, UID 10011 was used. The data included in this report are for the worst case operating modes.

| UID       | Communication System Name | MIF (dB) |
|-----------|---------------------------|----------|
| 10081-CAA | CDMA2000 (1xRTT, RC3)     | -19.71   |

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

| Air-Interface | Average Power (dBm) |                    |
|---------------|---------------------|--------------------|
|               | Target              | Max. Tune-up Limit |
| CDMA BC0      | 24.5                | 25.0               |
| CDMA BC1      | 24.5                | 25.0               |

## 10. 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  $\leq 17$  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      | 25.0                                           | -19.71   | 5.29                           | No         |
| CDMA BC1      | 25.0                                           | -19.71   | 5.29                           | No         |

### Note(s):

1. Max tune-up limit

## Conclusions

This device is exempt from RF Emission testing.

## 11. 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

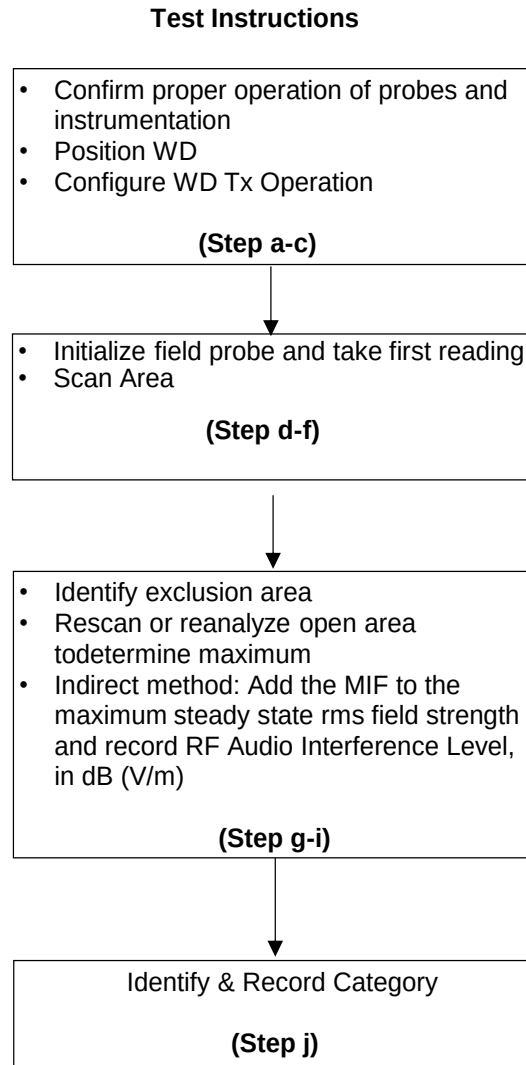
- j) Compare this RF audio interference level with the categories in Clause 8 (ANSI C63.19-2011) and record the resulting WD category rating
- k) For the T-Coil mode M-rating assessment, determine whether the chosen perpendicular measurement point is contained in an included sub-grid of the first scan. 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





## 12. RF Emissions Measurement Criteria

WD RF audio interference level categories in logarithmic units

| Emission Categories | E-field emissions |                   |
|---------------------|-------------------|-------------------|
|                     | < 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)      |

## 13. HAC (RF Emissions) Test Results

Not applicable.

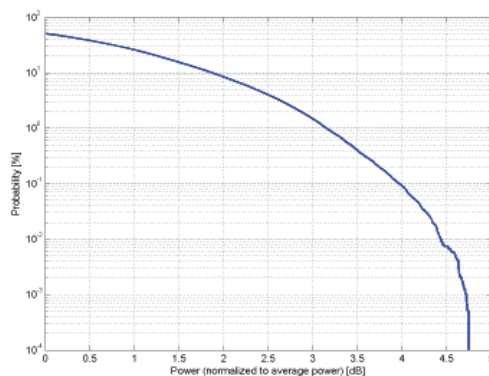
## UID 10081-CAA CDMA Specification

**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

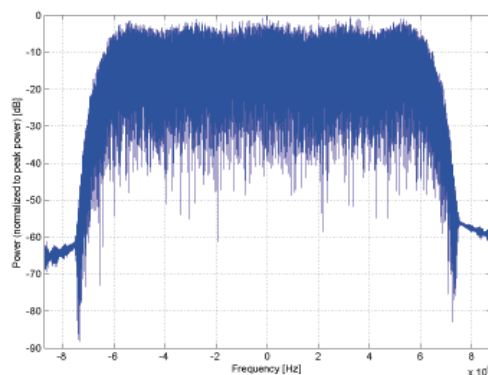
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                   | CDMA2000 (1xRTT, RC3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Group:                  | CDMA2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| UID:                    | 10081-CAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PAR: <sup>1</sup>       | 3.97 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MIF: <sup>2</sup>       | -19.71 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Standard Reference:     | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3<br>FCC OET KDB 941225 D01 SAR test for 3G devices (v02)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Category:               | Random amplitude modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Modulation:             | BPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Frequency Band:         | Band Class 0 (824.0-849.0 MHz, 20039)<br>Band Class 1 (1850.0-1910.0 MHz, 20040)<br>Band Class 2 (872.0-915.0 MHz, 20041)<br>Band Class 3 (887.0-925.0 MHz, 20042)<br>Band Class 4 (1750.0-1780.0 MHz, 20043)<br>Band Class 5 (411.7-483.5 MHz, 20044)<br>Band Class 6 (1920.0-1980.0 MHz, 20045)<br>Band Class 7 (776.0-794.0 MHz, 20046)<br>Band Class 8 (1710.0-1785.0 MHz, 20047)<br>Band Class 9 (880.0-915.0 MHz, 20048)<br>Band Class 10 (806.0-901.0 MHz, 20049)<br>Band Class 11 (410.0-462.5 MHz, 20050)<br>Band Class 12 (870.0-876.0 MHz, 20051) |
| Detailed Specification: | Radio Configurations 3 (RC3)<br>Output Slot: PICH, FCH 9.6 kpbs<br>R-PITCH: Walsh Code 0, Code Power: -5.278 dB, Data Rate:<br>N/A, Data: All "0"<br>R-FCH: Walsh Code 4, Code Power -1.528 dB, Data Rate<br>9.6kbps, Data: PN9fix                                                                                                                                                                                                                                                                                                                           |
| Bandwidth:              | 1.2 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Integration Time:       | 80.0 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

<sup>1</sup> PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"  
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).

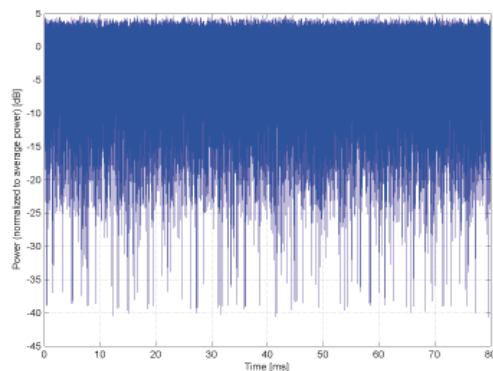
**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

**END OF REPORT**