

HAC RF EMISSIONS TEST REPORT

FCC 47 CFR § 20.19 ANSI C63.19-2011

For

GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS & NFC

FCC ID: PY7-32042D

Report Number: 11760905-S3V2 Issue Date: 8/21/2017

Prepared for

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Revision History

Rev.	Date	Revisions	Revised By
V1	8/4/2017	Initial Issue	
V2	8/21/2017	Section 1: Corrected FCC ID	Coltyce Sanders

Table of Contents

1.	Att	estation of Test Results	4
2.	Tes	st Methodology	5
3.	Fac	cilities and Accreditation	5
4.	Cal	libration and Uncertainty	5
4.	.1.	Measuring Instrument Calibration	5
4.	.2.	Measurement Uncertainty	6
5.	Sys	stem Specifications	7
6.	Sys	stem Validation	8
6.	.1.	System Validation Results	8
7.	Ave	erage Antenna Input Power & Evaluation for Low-power Exemption	9
8.	Dev	vice Under Test	10
8.	.1.	Air Interfaces and Operating Mode	10
9.	Мо	odulation Interference Factor (MIF)	11
10.	НА	C RF Emissions Test Procedure	12
11.	RF	Emissions Measurement Criteria	15
12.	НА	C (RF Emissions) Test Results	15
1:	2.1.	Worst Case RF Emission Test Plot	16
App	enc	dixes	17
1	1760	0905-S3V1 HAC_RF_App A Setup Photo	17
1	1760	0905-S3V1 HAC_RF_App B System Validation Plots	17
1	1760	0905-S3V1 HAC_RF_App C RF Emissions Test Plots	17
1	1760	0905-S3V1 HAC_RF_App D MIF Attestation Letter	17
1	1760	0905-S3V1 HAC_RF_App E Probe Cal. Certificate	17
1	1760	0905-S3V1 HAC_RF_App F Dipole Cal. Certificates	17
1	176	0905-S3V1 HAC RE Ann G UID Specifications	17

1. Attestation of Test Results

Applicant Name	SONY MOBILE COMMUNICATIONS INC.
FCC ID	PY7-32042D
Applicable Standards	FCC 47 CFR § 20.19 ANSI C63.19-2011
HAC Rating	M3
Date Tested	7/24/2017 to 7/28/2017
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:	Prepared By:
A.	Celle Sul
David Weaver	Coltyce Sanders
Program Manager	Engineer
UL Verification Services Inc.	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 v04r01 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.

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.

Manufacturer	Type/Model	Serial No.	Cal. Due Date
Agilent	N5181A	MY50140610	5/31/2018
Agilent	N1912A	MY50001018	10/11/2017
Agilent	N1921A	MY52260009	1/5/2018
Agilent	N1921A	MY53020038	4/13/2018
MITEQ	AMF-4D-00400600-50-30P	1795093	N/A
Werlatone, Inc.	C8060-102	2149	N/A
BK Precision	1611	215-02292	N/A
SPEAG	DAE4	1433	3/8/2018
SPEAG	ER3DV6	2509	5/12/2018
SPEAG	CD835V3	1014	2/9/2018
SPEAG	CD1880V3	1122	2/8/2018
SPEAG	CD2600V3	1008	7/21/2018
R &S	CMW 500	125236	3/6/2018
	Agilent Agilent Agilent Agilent Agilent MITEQ Werlatone, Inc. BK Precision SPEAG SPEAG SPEAG SPEAG	Agilent N5181A Agilent N1912A Agilent N1921A Agilent N1921A MITEQ AMF-4D-00400600-50-30P Werlatone, Inc. C8060-102 BK Precision 1611 SPEAG DAE4 SPEAG ER3DV6 SPEAG CD835V3 SPEAG CD1880V3 SPEAG CD2600V3	Agilent N5181A MY50140610 Agilent N1912A MY50001018 Agilent N1921A MY52260009 Agilent N1921A MY53020038 MITEQ AMF-4D-00400600-50-30P 1795093 Werlatone, Inc. C8060-102 2149 BK Precision 1611 215-02292 SPEAG DAE4 1433 SPEAG ER3DV6 2509 SPEAG CD835V3 1014 SPEAG CD1880V3 1122 SPEAG CD2600V3 1008

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.(±%)	
Effor Description	value (±%)	Flobe Dist.	DIV.	(CI) E	(0) 11	Е	Н
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	5.8	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						16.3	12.3
Expanded Std. Uncertainty on Power						32.6	24.6
Expanded Std. Uncertainty on Field					16.3	12.3	

Notesfor table

^{1.} N - Nomal

^{2.} R - Rectangular

^{3.} Div. - Divisor used to obtain standard uncertainty

^{4.} Ci - is te sensitivity coefficient

5. 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 ±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

6. 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 Electric Field Probe 15 mm to top edge of dipole element Dipole Signal Generator RF Amplifier Dual Directional Coupler RF Power Meter

6.1. System Validation Results

				Max. measured from		Average	Target (V/m)	Deviation	Plot
SAR Lab	Date	Dipole Type_Serial #_Freq.	Dipole Cal. Due Data	above high end (V/m)	above low end (V/m)	max. above arm (V/m)	(From SPEAG)	(note 1) ± %	No.
2	7/24/2017	CD835V3	SN 1014	109.60	117.50	113.55	109.10	1.04	1
2	7/24/2017	CD1880V3	SN 1122	90.36	97.73	94.05	89.50	1.05	2
2	7/28/2017	CD2600V3	SN 1008	84.10	95.50	89.80	86.20	1.04	3

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.
- 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.

7. 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 ≤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) ¹	Worst Case MIF (dB)	Input Power plus its MIF (dBm)	HAC Tested
GSM850	33.2	3.63	36.83	Yes
GSM1900	30.7	3.63	34.33	Yes
W-CDMA Band II	22.9	-27.23	-4.33	No
W-CDMA Band IV	24.5	-27.23	-2.73	No
W-CDMA Band V	22.7	-27.23	-4.53	No
LTE Band 2	23.4	-9.76	13.64	No
LTE Band 4	25.0	-9.76	15.24	No
LTE Band 5	23.0	-9.76	13.24	No
LTE Band 7	21.0	-9.76	11.24	No
LTE Band 12	25.0	-9.76	15.24	No
LTE Band 13	24.0	-9.76	14.24	No
LTE Band 17	24.0	-9.76	14.24	No
LTE Band 25	23.0	-9.76	13.24	No
LTE Band 26	23.0	-9.76	13.24	No
LTE Band 38	21.0	-1.44	19.56	Yes
LTE Band 41	21.0	-1.44	19.56	Yes
LTE Band 66	25.0	-9.76	15.24	No
802.11b Chain 0	13.7	-2.02	11.68	No
802.11g Chain 0	13.7	0.12	13.82	No
802.11b Chain 1	13.5	-2.02	11.48	No
802.11g Chain 1	13.5	0.12	13.62	No
802.11a Chain 0	13.5	-3.15	10.35	No
802.11a Chain 1	14.0	-3.15	10.85	No

Note(s):

^{1.} Max tune-up limit

8. Device Under Test

Normal operation	Held to head				
Back Cover	☐ The Back cover is not removable				
	S/N	Technology	Notes		
Test sample information	BH90007Q85	GSM	Radiated		
	BH9000A885	LTE HB/UHB	Radiated		

8.1. Air Interfaces and Operating Mode

Air Interface	Bands (MHz)	Туре	C63.19 Tested	Simultaneous Transmitter	отт	Power Reduction	
	850	VO	V	Wi Fi and DT			
GSM	1900	VO	Yes	Wi-Fi and BT	NA	NA	
	GPRS/EDGE	DT	No	Wi-Fi and BT	Yes	NA	
	850						
W CDMA	1700	VO	No ¹	Wi-Fi and BT	NA	NA	
W-CDMA	1900						
	HSPA	DT	No	Wi-Fi and BT	Yes	NA	
	700		No ¹	Wi-Fi and BT	Yes	NA	
	850						
LTE - FDD	1700	VD					
	1900						
	2500						
LTE - TDD	2600	VD	Yes	Wi-Fi and BT	Yes	NA	
	2450						
	5200				Yes		
Wi-Fi	5300	VD	No ¹	WWAN and BT		NA	
	5500						
	5800						
ВТ	2450	DT	NA	WWAN and Wi-Fi	NA	NA	

Type

VO=CMRS Voice Service

DT - Digital Transport

VD=CMRS IP Voice Service and Digital Transport

Note:

1. Evaluated for MIF and low power exemption.

9. 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)
10021-DAB	GSM-FDD (TDMA, GMSK)	3.63
10011-CAB	UMTS-FDD (WCDMA)	-27.23
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
10061-CAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077-CAA	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10069-CAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps)	-3.15

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

Page 11 of 17

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.

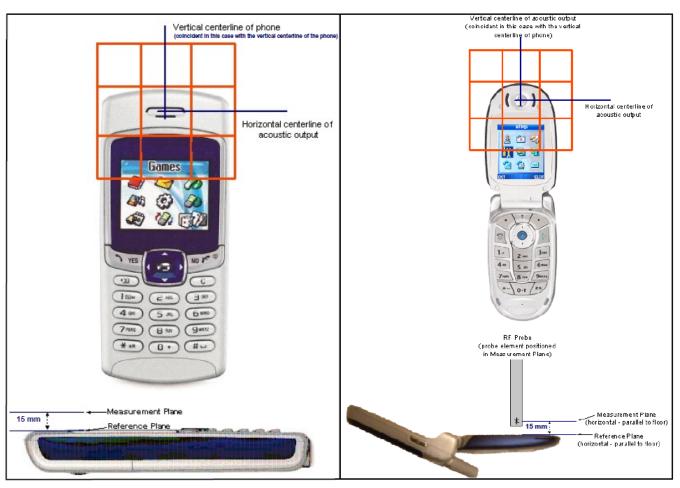
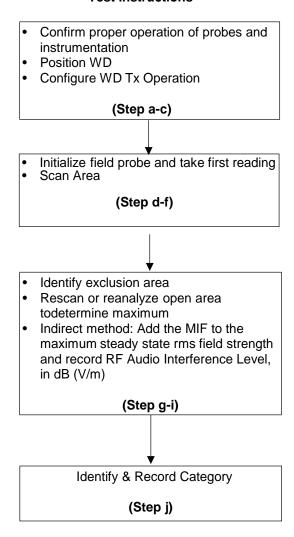


Figure 1 - WD reference and plane for RF emission measurements

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.

Air-Interface	Ch. No.	Freq. (MHz)	Results* (dB V/m)	Results plus 0.2dB uncertaninty (dB V/m)	Margin (dB)	M-Rating
GSM850	128	824.40	38.85	39.05	0.95	M4
	190	836.60	38.46	38.66	1.34	M4
	251	848.60	38.08	38.28	1.72	M4
	512	1850.20	32.33	32.53	2.47	M3
GSM1900	661	1880.00	32.39	32.59	2.41	M3
	810	1909.80	31.92	32.12	2.88	M3
LTE TOD	37850	2580.00	27.88	28.08	1.92	M4
LTE-TDD Band 38	38000	2595.00	27.94	28.14	1.86	M4
	38150	2610.00	27.77	27.97	2.03	M4
LTE-TDD Band 41	39750	2506.00	24.97	25.17	4.83	M4
	40185	2549.50	24.79	24.99	5.01	M4
	40620	2593.00	25.11	25.31	4.69	M4
	41055	2636.50	24.84	25.04	4.96	M4
	41490	2680.00	25.12	25.32	4.68	M4
W-CDMA & LTE-FDD & Wi-Fi	Refer to Section 7 Evaluation for Low-power Exemption. RF Emission testing for this device is required only for GSM voice modes and LTE-TDD. All other applicable air-interfaces are exempt from testing in accordance with C63.19-2011 Clause 4.4 and are rated M4.					M4

Note(s)

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

Date: 7/24/2017

12.1. Worst Case RF Emission Test Plot

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

HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section DASY5 Configuration:

- Probe: ER3DV6 SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)

GSM1900 E-Field measurement/Voice_ch 661/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 = 29.34 V/m; Power Drift = -0.03 dB

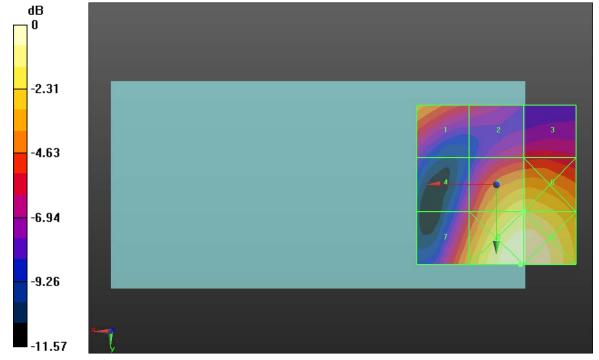
Applied MIF = 3.63 dB

RF audio interference level = 32.39 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3	Grid 2 M4	Grid 3 M4
30.55 dBV/m	28.37 dBV/m	28.46 dBV/m
Grid 4 M4	Grid 5 M3	Grid 6 M3
28.19 dBV/m	32.39 dBV/m	32.41 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
30.85 dBV/m	33.97 dBV/m	33.97 dBV/m



0 dB = 49.97 V/m = 33.97 dBV/m

Appendixes

Refer to separated files for the following appendixes

11760905-S3V1 HAC_RF_App A Setup Photo

11760905-S3V1 HAC_RF_App B System Validation Plots

11760905-S3V1 HAC_RF_App C RF Emissions Test Plots

11760905-S3V1 HAC_RF_App D MIF Attestation Letter

11760905-S3V1 HAC_RF_App E Probe Cal. Certificate

11760905-S3V1 HAC_RF_App F Dipole Cal. Certificates

11760905-S3V1 HAC_RF_App G UID Specifications

END OF REPORT