

Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

# Hearing Aid Compatibility (HAC) RF Emissions

FCC 47 CFR Part 20.19

**Test Report** 

For

Kyocera Corporation c/o Kyocera Communications, Inc.

Product:	CDMA Phone
Model:	C5155 A1



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## **TABLE OF CONTENTS**

1	SUMMARY OF TESTING		
2	EQ	QUIPMENT UNDER TEST INFORMATION	
3		ST CONDITIONS	
Ū	3.1	AMBIENT CONDITIONS	
	3.2	RF CHARACTERISTICS OF THE TEST SITE	
	3.3	TEST SIGNAL, FREQUENCIES AND OUTPUT POWER	
	3.4	EUT OPERATING CONDITIONS	6
4 DESCRIPTION OF TEST EQUIPMENT			
	4.1	TEST EQUIPMENT USED	
	4.2	NEAR FIELD MEASUREMENT SYSTEM	
	4.3	ISOTROPIC E-FIELD PROBE	
	4.4	ISOTROPIC -FIELD PROBE	
5	SY	STEM VALIDATION	
	5.1	DIPOLE VALIDATION SETUP	
	5.2	DIPOLE VALIDATION RESULTS	
6	DE	SCRIPTION OF TEST PROCEDURE	11
	6.1	TEST POSITIONS	
	6.2	RF EMISSION MEASUREMENTS REFERENCE AND PLANE	
	6.3	RF EMISSIONS MEASUREMENT PROCEDURES	
7	PR	ROBE MODULATION FACTOR (PMF)	13
	7.1	PMF MEASUREMENT PROCEDURES	13
	7.2	PMF Test Results	
	7.3	PMF PEAK POWER MEASUREMENT PLOTS	
8	EM	MISSION DATA EXTRACTION AND POSTPROCESSING	17
9	ME	EASUREMENT UNCERTAINTY	18
10	D I	RF EMISSIONS TESTS	19
	10.1	EMISSION LIMITS	19
	10.2	CDMA 1900 Test Results	20
	10.3	Worst-Case Configuration Evaluation	2′
1	1 /	APPENDIX A: PROBE CALIBRATION CERTIFICATION	22
12	2	APPENDIX B: SYSTEM VALIDATION DATA PLOTS	22
13	3 /	APPENDIX C: TEST RESULTS/PLOTS	22
12	1	APPENDIX D. PHOTO TEST SETUP	22



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

### **ATTESTATION**

The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested.

The test equipment used was suitable for the tests performed and within manufacturer's published specifications and operating parameters.

The test methods were consistent with the methods described in the relevant standards.

Product:	Single-Band CDMA Cellular Phone with Bluetooth and WLAN	
Model #:	C5155 A1	
FCC ID:	V65C5155A1	
Tested in accordance with:	FCC 47 CFR Part 20.19	
	ANSI C63.19-2007	
Test performed by: Comptest Services LLC		
Test Requested by:	KYOCERA Corporation	
	C/o KYOCERA Communications, Inc.	
	8611 Balboa Ave.	
	San Diego, CA 92123 United States	
Date of Test:	April 03 – May 14, 2012	

Responsible Engineer	Reviewed and approved by:
Benjamin Nguyen	Jannys
Benjamin Nguyen	Tammy To
Test Engineer	Quality Manager



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

# 1 SUMMARY OF TESTING

Rule Part	Test Description	Section #	Verdict
FCC § 20.19(b), §6.3(v), §7.3(v)	HAC RF Emissions	4	Pass
ANSI C63.19-2007 HAC M Category:			M4

1) HAC rating was not based on concurrent voice and data modes. Standalone mode was found to represent worst case rating for both M and T rating.

# 2 EQUIPMENT UNDER TEST INFORMATION

Product:	Single-Band CDMA Cellular Phone with Bluetooth and WLAN	
FCC ID:	V65C5155A1	
Model Number:	C5155 A1	
EUT Serial Number:	268435457816726148	
Туре:	[ ] Identical Prototype, [X] Pre-Production,	
	[ ] Production	
Device Category:	Portable	
RF Exposure Environment:	General Population / Uncontrolled	
Antenna:	Internal	
Detachable Antenna:	Yes	
External Input:	Audio/Digital Data	
Quantity:	Quantity production is planned	
Mode:	CDMA 1x & EvDo Rev0, A	
Band:	BC-1	
TX Frequency (MHz):	1850 -1910	
Rated RF Conducted Output Power (dBm)	25 ()	



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Report #:	CT-C5155A1_20RF-0412-R0

## 3 TEST CONDITIONS

3.1 Ambient Conditions		
All tests were performed under the following environmental conditions:		
Ambient Temperature:	23 ± 2 Degrees C	
Tissue simulating liquid temperature:	22 ± 1 Degrees C	
Relative Humidity (RH):	0% <rh 80%<="" <="" td=""></rh>	
Atmospheric Pressure:	101.3kPa + 10 to -5 kPa	

#### 3.2 RF characteristics of the test site

All HAC measurements were performed inside a shielded room that provide isolation from external EM fields, with the RF ambient at least 20 dB below the intended measurement limits.

## 3.3 Test Signal, Frequencies and Output Power

The device supports CDMA2000 in 1X (Phase I, Protocol revision 6) mode only. CDMA2000 1X includes TIA/EIA-95B as a subset and was approved for publishing in July 1999. It provides voice and data capabilities within a standard 1.25 MHz CDMA channel. This RF bandwidth is identical to the legacy IS-95 B system standard.

Peak and Average conducted power were measured to ensure worst case power configuration was tested:

CONFIGURATION		CONDUCTED POWER				
(Full Rate)		CDMA 800 BC-10 (ch 580)	CDMA 800 BC-0 (ch 384)	CDMA 1900 (ch 600)		
		Average (dBm)	Average (dBm)	Average (dBm)		
SO2	RC1			25.06		
	RC3			25.05		
SO55	RC1			25.07		
	RC3			25.08		
SO32	RC3 (+F-SCH)			25.07		
	RC3 (+SCH)			25.05		

In all operating modes, the phone was set to rated maximum RF power level and the measurements were performed on low, mid and high channels.

The measurement system measures power drift during HAC testing by comparing E/H-field in the same location at the beginning and at the end of measurement. These records were used to monitor stability of power output during tests. Conducted RF power measurements were also performed before and after each HAC measurements to confirm the output power.



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FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

During tests, the EUT was put in in-call mod required signal and power:	de and controlled by a CDMA simulator to generate the
Protocol:	6 (IS-2000)
Radio Configuration:	3
Power Control:	All Up Bits
Service Option:	55
Data Rate:	Full

3.4	EUT Operating Conditions
The	EUT was tested with the follow configurations and conditions, if applicable:
X	Closed configurations at ear use position <sup>1</sup> Both retracted and extended antenna positions
Note	e: This device has only one configuration for ear usage
2)	HAC rating was not based on concurrent voice and data modes. The Bluetooth or Wi-Fi transmitter was not enabled during tests.



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FCC ID:	V65C5155A1
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## 4 DESCRIPTION OF TEST EQUIPMENT

## 4.1 Test Equipment Used

Below is a list of the calibrated equipment used for the measurements.

The calibration certificates of E-field and H-field probes are attached in Appendix A.

Description	Manufacturer	Model Number	Serial Number	Cal Due Date
Power Meter	Giga-tronics	8541C	1831306	02/24/13
Signal Generator	Hewlett Packard	E4421B	US38440337	06/28/13
Radio Communication Tester	Agilent	8960	GB44052789	02/24/14
Data Acquisition	Speag	DAE4	527	07/13/12
E-field Probe	Speag	ER3DV6	2341	07/12/12
H-field Probe	Speag	H3DV5	6029	07/20/12
Dipole Antenna (835MHz)	Speag	CD835V3	1020	03/08/13
Dipole Antenna (1880MHz)	Speag	CD1880V3	1015	03/08/13

Note: Dipoles are calibrated on a 2-year interval. Dipoles return-loss and input impedances are measured annually (50824 DO2 Dipole SAR Validation Verification v01).

## 4.2 Near Field Measurement System

The measurements were performed with Dasy4 automated near-field scanning system comprised of high precision robot, robot controller, computer, near-field probe, probe alignment sensor, non-conductive phone positioner, Test Arch and software extension. The overall expanded uncertainty (K=2) of the measurement system is  $\pm 10.9\%$  and  $\pm 14.7\%$  for H-field and E-field resp. The measurement uncertainty budget is given in section 6.



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FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

4.3 Isotropic E-	Field Probe
Model	■ ER3DV6
Construction	One dipole parallel, two dipoles normal to probe axis
	Built-in shielding against static charges
	<ul> <li>PEEK enclosure material (resistant to organic solvents, e.g., glycolether)</li> </ul>
Calibration	<ul> <li>In air from 100 MHz to 3.0 GHz (absolute accuracy ± 6%; k=2)</li> </ul>
Frequency	■ 100MHz to 6 GHz
	■ Linearity: ± 0.2dB (100MHz to 3GHz)
Directivity	<ul> <li>± 0.2 dB in air (rotation around probe axis)</li> </ul>
	■ ± 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)
	<ul> <li>Distance from probe tip to dipole centers: 2.5 mm</li> </ul>
Application	<ul> <li>General near-field measurements up to 6 GHz</li> </ul>
	Field component measurements
	Fast automatic scanning in phantoms

4.4 Isotropic -Field	Probe	
Model	■ H3DV6	
Construction ■ Three concentric loop sensors with 3.8 mm loop diameters		
	<ul> <li>Resistively loaded detector diodes for linear response</li> </ul>	
	<ul> <li>Built-in shielding against static charges</li> </ul>	
	<ul> <li>PEEK enclosure material (resistant to organic solvents, e.g., glycolether)</li> </ul>	
Frequency	■ 200 MHz to 3 GHz (± 6.0%, k=2); Output linearized	
Directivity	■ ± 0.25 dB (spherical isotropy error)	
Dynamic Range	■ 10 mA/m to 2 A/m at 1 GHz	
E-Field Interference	< 10% at 3 GHz (for plane wave)	
Dimensions	<ul><li>Overall length: 330 mm (Tip: 40 mm)</li></ul>	
	■ Tip diameter: 6 mm (Body: 12 mm)	
	<ul> <li>Distance from probe tip to dipole centers: 3 mm</li> </ul>	
Application	<ul> <li>General magnetic near-field measurements up to 3 GHz</li> </ul>	
	<ul> <li>Field component measurements</li> </ul>	
	<ul> <li>Surface current measurements</li> </ul>	
	<ul> <li>Measurements in air or liquids</li> </ul>	
	<ul> <li>Low interaction with the measured field</li> </ul>	

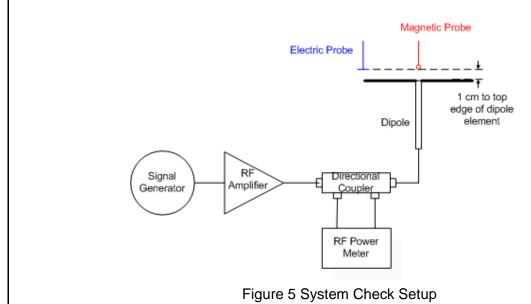


Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

## SYSTEM VALIDATION

## 5.1 Dipole Validation Setup

The probes are calibrated annually by the manufacturer. The HAC measurements of the device were done within 24 hours of system accuracy verification, which was done using calibration dipoles. Unmodulated continous wave of power level of 20dBm was supplied to a dipole antenna placed under Test Arch. The measurement probes are positioned over the illuminated dipole at 10mm distance from the top surface of the dipole element to the calibration reference point of the sensor, defined by the probe manufacturer.





Applicant:	Kyocera
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Report #:	CT-C5155A1_20RF-0412-R0

## 5.2 Dipole Validation Results

The length of the dipole was scanned with both E and H-field probes and the maximum values for each were recorded. The validation results are in the table below and printouts of the validation test are attached in Appendix B. All the measured parameters were within the specification.

Freq. (MHz)	Parameter	Target (SPEAG)	Measured	Delta (%)	Limit (%)	Test date
1880	E dB(V/m)	143.9	134.2	-6.74	± 25	05/14/12
	H dB(A/m)	0.474	0.484	2.11	± 25	04/03/12



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FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

## DESCRIPTION OF TEST PROCEDURE

### 6.1 Test Positions

The device was placed on a non-conductive phone positioner under the Test Arch.

### 6.2 RF Emission Measurements Reference and Plane

Figure 6.2 illustrates the references and reference plane that shall be used in the EUT emissions measurement:

- The grid is 5 cm by 5 cm area that is divided into 9 evenly sized blocks or sub-grids.
- The grid is centered on the audio frequency output transducer (speaker) of the EUT.
- The grid is in a reference plane, which is defined as the planar area that contains the highest point in the area of the phone that normally rests against the user's ear. It is parallel to the centerline of the receiver of the EUT and is defined by the points of the receiver-end of the EUT, which, in normal handset use, rest against the ear.
- The measurement plane is parallel to, and 1.5 cm in front of, the reference plane.

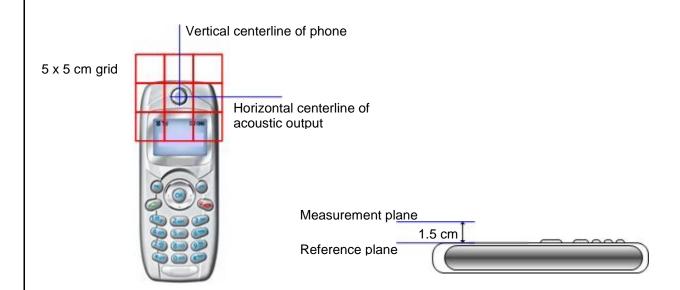


Figure 6.2 – Measurement Reference and Plane



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

#### 6.3 RF Emissions Measurement Procedures

Flowchart below shows the near field emission measurement:

- 1. The center of the probe was scan to the edges of the grid. Accordingly the total area covered by the outside edge of the probe was the 5 cm by 5 cm area, increased by half (½) the probe diameter on all sides.
- 2. The nearest point on the probe measurement element(s) was held 1.0 cm from the EUT reference plane.
- 3. The probe element is that portion of the probe that is designed to receive and sense the field being measured.
- 4. The physical body of the probe housing was not used when setting this 1.0 cm distance as this would place the sensing elements at an indeterminate distance from the reference plane.
- 5. The step size of the scan is set to 5 mm or less.
- 6. Up to three blocks were excluded for each field measurement.
  - The center block containing the EUT output was not excluded.
  - A maximum of five blocks were excluded for both E- and H-field measurements for the EUT output being measured. Stated differently, the center sub-grid or block and 3 other blocks were common to both the E- and H-field measurements for a given grid.

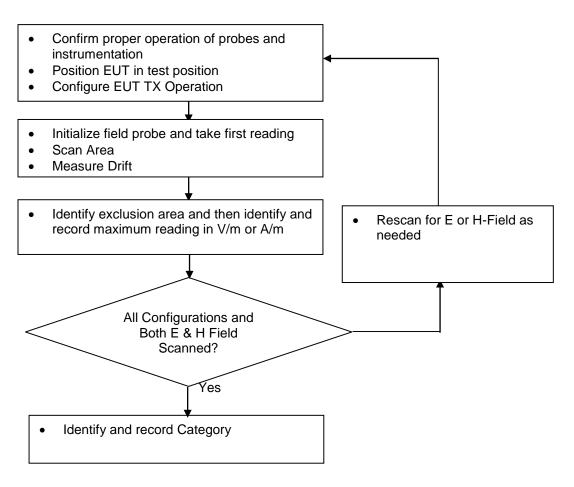


Figure 7.6 Near field emission measurement flowchart



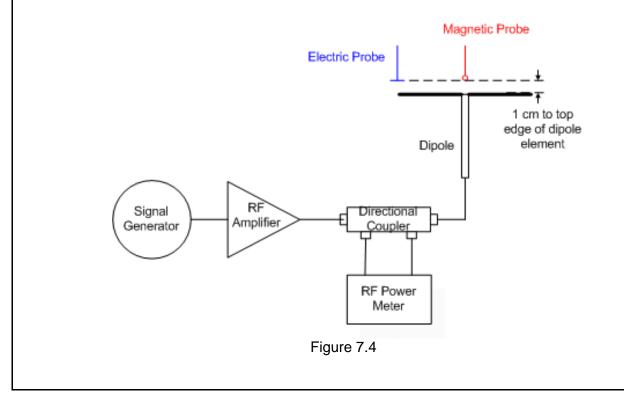
Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

## PROBE MODULATION FACTOR (PMF)

#### 7.1 PMF Measurement Procedures

A calibration was made of the modulation response of the probe and its instrumentation chain. This calibration was performed with the field probe, attached to its instrumentation. The response of the probe system to a CW field at the frequency of interest is compared to its response to a modulated signal with equal peak amplitude to that of a CW signal. The field level of the test signals shall be more than 10 dB above the ambient level and the noise floor of the instrumentation being used. The ratio of the CW reading to that taken with a modulated reading was applied to the DUT measurements. The measurement procedures are as following:

- 1. Fix the field probe in a set location relative to the dipole antenna, as illustrated in Figure 7.4.
- 2. Setup the wireless device (EUT) with intended signal at the intended measurement frequency.\
- 3. Record the reading of the probe measurement system.
- 4. Replace the wireless device with a RF signal generator producing an unmodulated CW signal and set to the wireless device operating frequency.
- 5. Set the peak power of the unmodulated signal to equal that recorded from the wireless device
- 6. Record the reading of the probe measurement system of the unmodulated CW signal.
- 7. The ratio of probe reading (CW) in step 6 to the probe reading (EUT) in step 3 is the modulation factor.





Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

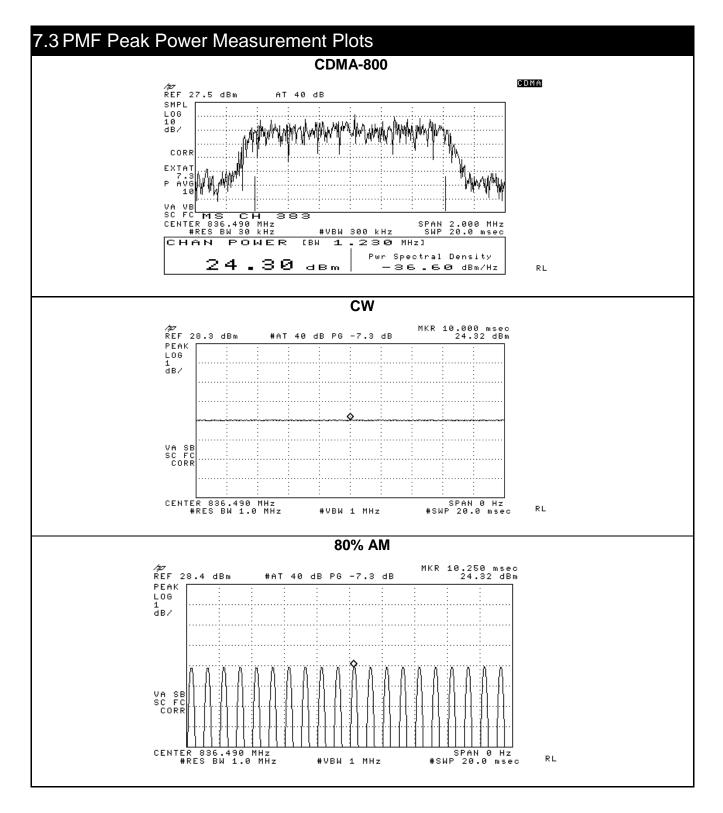
## 7.2 PMF Test Results

The modulation factors obtained by above method shall be applied to readings taken of the actual WD, in order to obtain an accurate peak field reading.

E-Field						
Frequency (MHz)	Peak Power (dBm)	Protocol	Protocol Reading (V/m)	Modulation Factor		
835	24.32	CW	127.6			
	24.3	CDMA (full rate)	1.00			
	24.32	AM	77.77	1.64		
1880	22.92	CW	69.51			
	22.92	CDMA (full rate)	70.66	0.98		
	22.92	AM	44.42	1.56		
		H-Field				
Frequency	Peak Power	Protocol	Protocol Reading	Modulation Factor		
(MHz)	(dBm)	11010001	(A/m)	Wiodulation Factor		
(MHz) 835		CW		Modulation Factor		
	(dBm)		(A/m)	1.02		
	(dBm) 24.5	CW	(A/m) 0.343			
	(dBm) 24.5 24.5	CW CDMA (full rate)	(A/m) 0.343 0.335	1.02		
835	(dBm) 24.5 24.5 24.61	CW CDMA (full rate) AM	(A/m) 0.343 0.335 0.223	1.02		



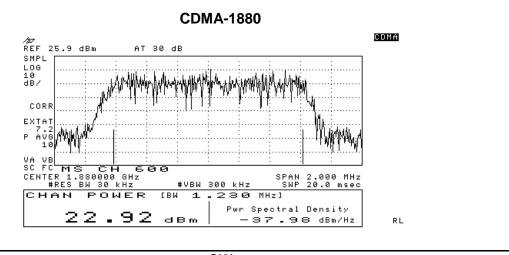
Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

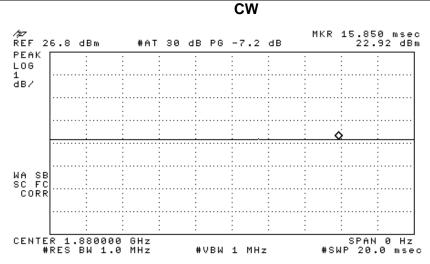


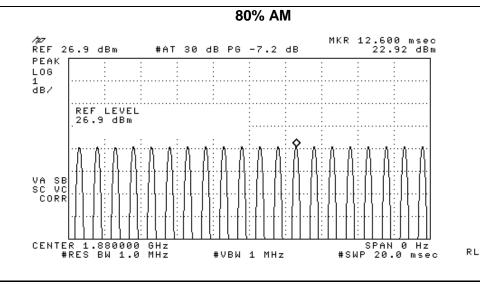


Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

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Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

# 8 EMISSION DATA EXTRACTION AND POSTPROCESSING

At the end of the measurements, the DASY4 system automatically evaluates the slot-averaged results, exclusion of the three highest subgrid, application of the AWF factor per ANSI-C63.19 requirements.

The following AWF factors were used for the standard transmission protocols:

Standard	Technology	AWF
TIA/EIA/IS-2000	CDMA	0
TIA/EIA-136	TDMA (50 Hz)	0
J-STD-007	GSM (217)	-5
T1/T1P1/3GPP	UMTS (WCDMA)	0
iDEN™	TDMA(22 and 11 Hz)	0

Table 8.1 Articulation Weighting Factor (AWF)

All DASY4 measurements are in RMS values. The Dasy4 system incorporates the crest factor of the signal in the computation of the RMS values. Although the software also has the capability to estimate the peak field by applying a square root of the crest factor value to the readings, the probe modulation factor was applied manually instead per ANSI C63.19 in the measurement tables in this report using equation:

#### Peak Field = (DASY4 reading) x PMF

where DASY4 reading = measurement from DASY4 in V/m or A/m PMF = Probe Modulation Factor in linear unit



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

## 9 MEASUREMENT UNCERTAINTY

Table 8.1 shows the uncertainty budget for HAC free field assessment according to ANSI C63.19-2007. The budget is valid for the frequency range 800 MHz - 3 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be smaller.

Uncertainty Description	Uncert . Value (± %)	Prob Dist.	Div.	C <sub>i</sub> (E)	C <sub>i</sub> (H)	Stand. Uncert (E) (±%)	Stand. Uncert (H) (±%)
Measurement system						(= / 5)	(=7-7)
Probe calibration	5.1	N	1	1	1	5.1	5.1
Axial isotropy of the probe	4.7	R	√3	1	1	2.7	2.7
Sensor displacement	16.5	R	√3	1	0.14 5	9.5	1.4
Boundary effects	2.4	R	√3	1	1	1.4	1.4
Probe linearity	4.7	R	√3	1	1	2.7	2.7
Scaling to Peak Envelope Power	2.0	R	√3	1	1	1.2	1.2
System Detection limit	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.8	R	√3	1	1	0.5	0.5
Integration time	2.6	R	√3	1	1	1.5	1.5
RF ambient conditions	3.0	R	√3	1	1	1.7	1.7
RF Reflections	12	R	√3	1	1	6.9	6.9
Probe Positioner	1.2	R	√3	1	0.67	0.7	0.5
Probe positioning	4.7	R	√3	1	0.67	2.7	1.8
Extrap. and integration	1.0	R	√3	1	1	0.6	0.6
Test Sample Related							
Device positioning vertical	4.7	R	√3	1	0.67	2.7	1.8
Device Positioning Lateral	1.0	R	√3	1	1	0.6	0.6
Device Holder and Phantom	2.4	R	√3	1	1	1.4	1.4
Power drift	5.0	R	√3	1	1	2.9	2.9
Phantom and Setup Related							
Phantom thickness	2.4	R	√3	1	0.67	1.4	0.9
		ined St				14.7	10.9
Extended S	tandard L	<b>Jncerta</b> i	inty on	Power	(k=2):	29.4	21.8
Extended	Standard	Uncert	ainty c	n Field	(k=2):	14.7	10.9

N: Normal R: Rectangular

Table 9.1 Worst-Case uncertainty budget for HAC free field assessment



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

# 10 RF EMISSIONS TESTS

# 10.1 Emission Limits

FCC: § 20.19, ANSI C63.19-2007

IC:

Table 10.1 shows the M-rating criteria from ANSCI C63.19. All digital transmission modes in all frequency bands contained in a HAC phone must meet M3 or M4 levels.

Near Field	Wireless Device RF Parameters [AWF = 0]						
Category	E-Field E	missions	H-Field Emissions				
	dB(V/m) Peak	V/m Peak	dB(A/m) Peak	A/m Peak			
	Freq < 960 MHz						
M1	56.0 to 61.0 631.0 to 1122.0 5.6 to 1		5.6 to 10.6	1.91 to 3.39			
M2	51.0 to 56.0	354.8 to 631.0	0.6 to 5.6	1.07 to 1.91			
М3	46.0 to 51.0	199.5 to 354.8	-4.4 to 0.6	0.60 to 1.07			
M4	< 46.0	< 199.5	< -4.4	< 0.60			
Freq > 960 MHz							
M1	46.0 to 51.0	199.5 to 354.8 -4.4 to 0.6		0.60 to 1.07			
M2	41.0 to 46.0	112.2 to 199.5	-9.4 to -4.4	0.34 to 0.60			
M3	36.0 to 41.0	63.1 to 112.2	-14.4 to -9.4	0.19 to 0.34			
M4	< 36.0	< 63.1	< -14.4	< 0.19			

Table 10.1 RF Emission Limits



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

10.2 CDMA 1900 Test Results									
Configuration	n:					Fixed	d		
	CDMA 1900 E-Field								
Ch.	Bac	klight	Power	Dasy4 Reading	PMI	=	Peak Field		Category
#			dBm	V/m			V/m		M
25	(	ON	24.90	36.80	1.00	)	36.80		4
600	(	NC	25.08	41.70	1.00	)	41.70		4
1175	(	NC	24.95	43.40	1.00	)	43.40		4
	CDMA 1900 H-Field								
Ch.	Bac	klight	Power	Dasy4 Reading	PMI	=	Peak F	ield	Category
#			dBm	A/m			A/n	1	M
25	(	ON	24.90	0.14	1.00	)	0.14	4	4
600	(	NC	25.08	0.17	1.00	)	0.17	7	4
1175	(	ON	24.95	0.16	1.00	)	0.10	3	4



Applicant:	Kyocera
FCC ID:	V65C5155A1
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# 10.3 Worst-Case Configuration Evaluation

The probe was rotated 360° at Azimuth axis in the worst case configuration. The rotation was performed at the location of maximum field strength in the included blocks.

CDMA 1900 E-Field							
Configuratio	on: Open				Antenna:	Fixed	
Ch.	Back	light	Conducted Power	Peak Field	PMF	Peak Field	Category
#			dBm	V/m		V/m	M
1175	0	N	24.95	51.56	1.00	51.56	4

Data plots are shown in Appendix C



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1_20RF-0412-R0

# 11 APPENDIX A: PROBE CALIBRATION CERTIFICATION

(See attachment)

## 12 APPENDIX B: SYSTEM VALIDATION DATA PLOTS

(See attachment)

## 13 APPENDIX C: TEST RESULTS/PLOTS

(See attachment)

## 14 APPENDIX D: PHOTO TEST SETUP

(See attachment)