

Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

Hearing Aid Compatibility (HAC) RF Emissions

FCC 47 CFR Part 20.19

Test Report

For

Kyocera Corporation c/o Kyocera Communications, Inc.

Product:	Tri-Band CDMA Phone
Model:	C5215



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TABLE OF CONTENTS

1	S	UMMARY OF TESTING	4
2	E	QUIPMENT UNDER TEST INFORMATION	4
3	TE	EST CONDITIONS	5
	3.1 3.2 3.3 3.4	Ambient Conditions RF characteristics of the test site Test Signal, Frequencies and Output Power EUT Operating Conditions	5 5
4	D	ESCRIPTION OF TEST EQUIPMENT	7
	4.1 4.2 4.3 4.4	TEST EQUIPMENT USED NEAR FIELD MEASUREMENT SYSTEM ISOTROPIC E-FIELD PROBE ISOTROPIC -FIELD PROBE	7 8
5	S	YSTEM VALIDATION	9
	5.1 5.2	DIPOLE VALIDATION SETUP DIPOLE VALIDATION RESULTS	
6	D	ESCRIPTION OF TEST PROCEDURE	11
	6.1 6.2 6.3	TEST POSITIONS RF EMISSION MEASUREMENTS REFERENCE AND PLANE RF EMISSIONS MEASUREMENT PROCEDURES	11
7	PI	ROBE MODULATION FACTOR (PMF)	13
	7.1 7.2 7.3	PMF MEASUREMENT PROCEDURES PMF TEST RESULTS PMF PEAK POWER MEASUREMENT PLOTS	14
8		MISSION DATA EXTRACTION AND POSTPROCESSING	
9	Μ	IEASUREMENT UNCERTAINTY	18
10)	RF EMISSIONS TESTS	19
	10.1 10.2 10.3 10.4 10.5	CDMA 800 BC-0 TEST RESULTS CDMA 800 BC-10 TEST RESULTS CDMA 1900 TEST RESULTS	20 EFINED. 22
1'	1	APPENDIX A: PROBE CALIBRATION CERTIFICATION	24
12	2	APPENDIX B: SYSTEM VALIDATION DATA PLOTS	24
13	3	APPENDIX C: TEST RESULTS/PLOTS	24
14	4	APPENDIX D: PHOTO TEST SETUP	24



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-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:	Tri-Band CDMA Cellular Phone with Bluetooth and WLAN	
Model #:	C5215	
FCC ID:	V65C5215	
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:	:: March 25, 2013	

Responsible Engineer

Benjamin Nguyen

Benjamin Nguyen Test Engineer Reviewed and approved by:

Kelly Hill

Kelly Hill Quality Manager



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FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-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

2 EQUIPMENT UNDER TEST INFORMATION

Product:	Tri-Band CDMA Cellular Phone with Bluetooth and WLAN			
FCC ID:	V65C5215			
Model Number:	C5215			
EUT Serial Number:	26843545781673	1602		
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 CDMA 1X CDMA 1x WLAN			
Band:	BC-0 BC-10 BC-1 802.11 b, g, n			
TX Frequency (MHz):	824.7 -848.3 817.9 - 823.1 1850 -1910 2412-2462			



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FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

3 TEST CONDITIONS

3.1 Ambient Conditions

	All tests were performed under the following environmental conditions:		
Ambient Temperature: 23 ± 2 Degrees C		23 ± 2 Degrees C	
	Tissue simulating liquid temperature:	22 ± 1 Degrees C	
	Relative Humidity (RH):	0% <rh 80%<="" <="" th=""></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 (Full Rate)		CONDUCTED POWER			
		CDMA 800 BC-0 (ch 384)	CDMA 800 BC-10 (ch 580)	CDMA 1900 (ch 600)	
		Average (dBm)	Average (dBm)	Average (dBm)	
SO2	RC1	24.36	24.49	24.47	
	RC3	24.37	24.48	24.46	
SO55	RC1	24.38	24.51	24.48	
	RC3	24.42	24.52	24.50	
SO32	RC3 (+SCH)	24.35	24.45	24.47	
	RC3 (+F-SCH)	24.39	24.44	24.48	

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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Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

During tests, the EUT was put in in-call mode and controlled by a CDMA simulator to generate the required signal and power:

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:

Mode	Band (MHz)	Туре	Voice Over IP Transport (Data)	Simultaneous Transmissions (Not Tested)	C63.19 (Tested)
CDMA 1x	800, 1900	Voice	N/A	Yes: BT, WiFi	Yes
CDMA EVDO Rev0, A	800, 1900	Voice	N/A	Yes: BT, WiFi	N/A
Bluetooth	2450	Data	N/A	Yes: CDMA	N/A
WiFi	2450	Data	N/A	Yes: CDMA	N/A

X Fully charged standard battery as supplied with the handset

Closed configurations at ear use position¹

Both retracted and extended antenna positions

X Back-light always ON

Reduce Power

Note:

1: This device has only one configuration for ear usage



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FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

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	05/16/13
Signal Generator	Hewlett Packard	E4421B	US38440337	06/28/13
Radio Communication Tester	Agilent	8960	GB44052789	12/02/13
Data Acquisition	Speag	DAE4	527	07/30/13
E-field Probe	Speag	ER3DV6	2341	09/14/13
H-field Probe	Speag	H3DV5	6029	09/14/13
Dipole Antenna (835MHz)	Speag	CD835V3	1020	03/05/14
Dipole Antenna (1880MHz)	Speag	CD1880V3	1015	03/04/14

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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Report #:	CT-C5215_20RF-0313-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
	 PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	 In air from 100 MHz to 3.0 GHz (absolute accuracy ± 6%; k=2)
Frequency	 100MHz to 6 GHz
	 Linearity: ± 0.2dB (100MHz to 3GHz)
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
Application	 General near-field measurements up to 6 GHz
	 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
	 Resistively loaded detector diodes for linear response
	 Built-in shielding against static charges
	 PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
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	 Overall length: 330 mm (Tip: 40 mm)
	 Tip diameter: 6 mm (Body: 12 mm)
	 Distance from probe tip to dipole centers: 3 mm
Application	 General magnetic near-field measurements up to 3 GHz
	 Field component measurements
	 Surface current measurements
	 Measurements in air or liquids
	 Low interaction with the measured field

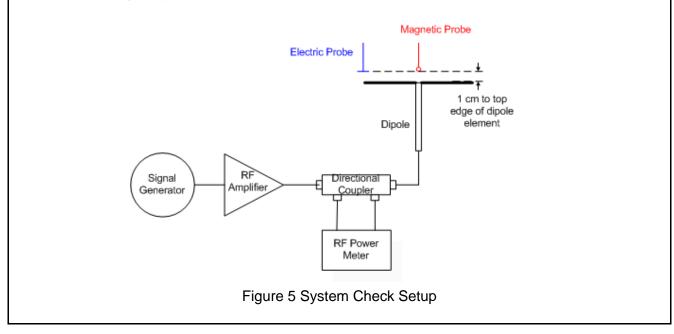


Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

5 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
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-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
835	E dB(V/m)	163.2	159.1	-2.51	± 25	03/25/13
H dE	H dB(A/m)	0.454	0.448	-1.32	± 25	03/25/13
1880	E dB(V/m)	142.0	136.7	-3.73	± 25	03/25/13
1880	H dB(A/m)	0.473	0.470	-0.70	± 25	03/25/13



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FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

6 DESCRIPTION OF TEST PROCEDURE

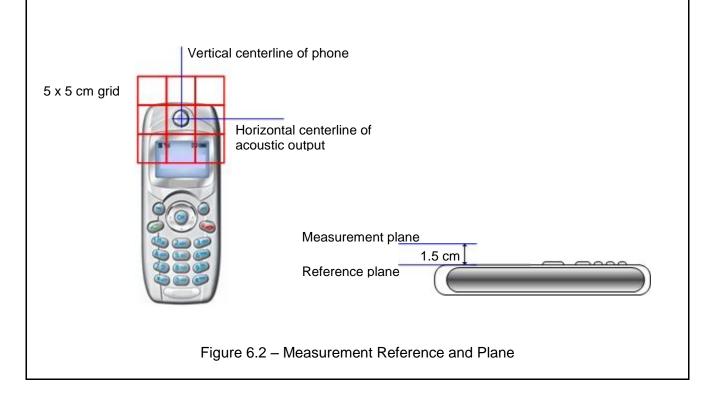
6.1 Test Positions

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.



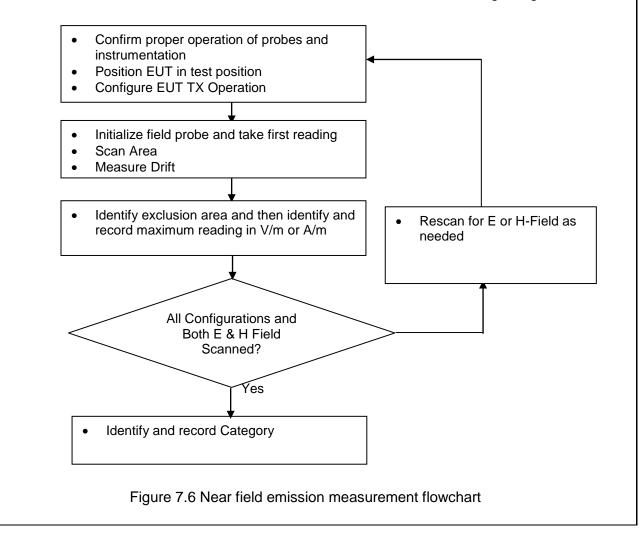


Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

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 $(\frac{1}{2})$ 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.





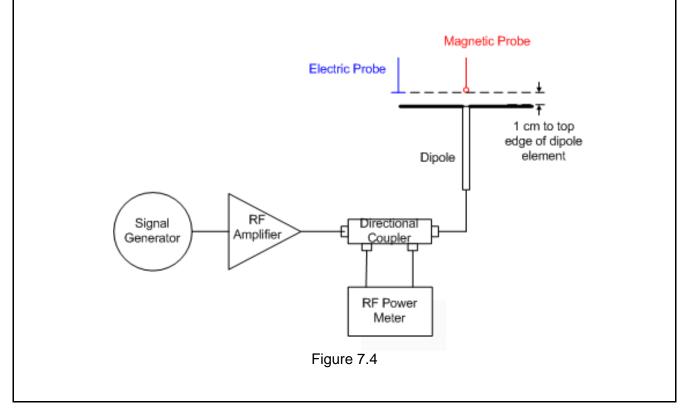
Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

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:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

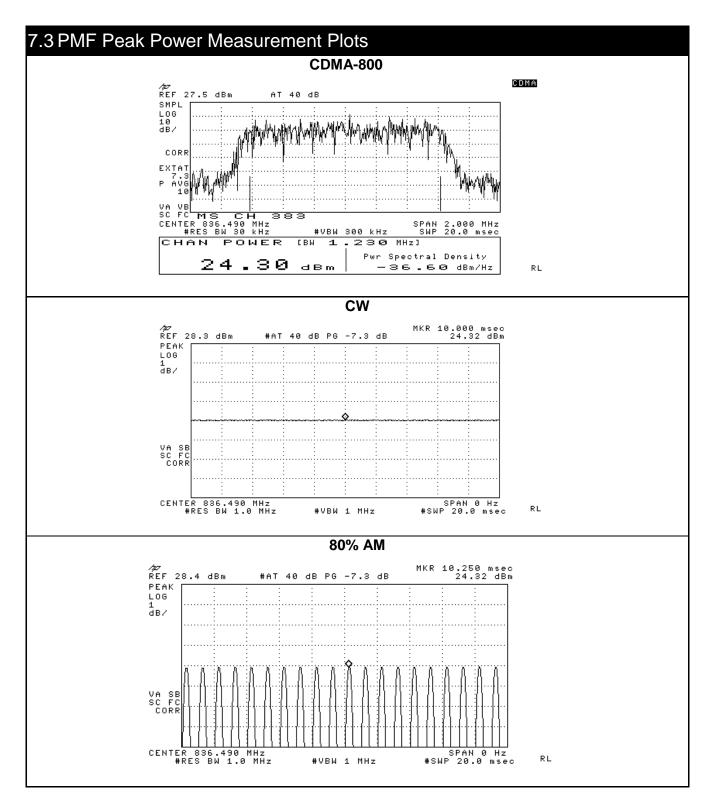
7.2 PMF Test Results

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			
	24.32	CDMA (full rate)	127.4	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 (MHz)	Peak Power (dBm)	Protocol	Protocol Reading (A/m)	Modulation Factor		
835	24.50	CW	0.343			
	24.50	CDMA (full rate)	0.335	1.02		
	24.61	AM	0.223	1.54		
1880	22.92	CW	0.272			
	22.94	CDMA (full rate)	0.277	0.98		
	22.92	AM	0.173	1.57		



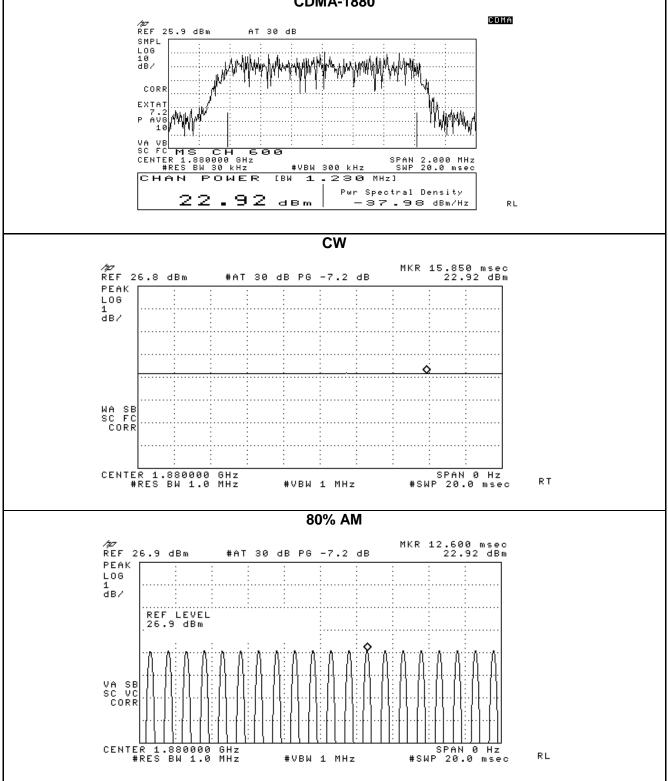
Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0





Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0







Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-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:	V65C5215
Report #:	CT-C5215_20RF-0313-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 _i (E)	C _i (H)	Stand. Uncert (E) (±%)	Stand. Uncert (H) (±%)
Measurement system					•		x
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
	Comb	ined St	andarc	Uncer	tainty:	14.7	10.9
Extended Standard Uncertainty on Power (k=2):					29.4	21.8	
Extanded	Standard	Uncort	ainty o	n Field	(k-2)·	14.7	10.9

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



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-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]					
Cotogony	E-Field E	missions	H-Field Emissions			
Category	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 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:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

10.2 CDM	IA 800 BC-0) Test Resul	lts				
Configuratio	n: Bar			Antenr	na:	Fixed	
CDMA 800 E-Field							
Ch.	Backlight	Power	Dasy4 Reading	PMF	Pea	ak Field	Category
#		dBm	V/m			V/m	М
1013	ON	24.53	76.45	1.00	-	76.45	4
384	ON	24.42	72.27	1.00	-	72.27	4
777	ON	24.45	59.93	1.00	Į	59.93	4
		CI	DMA 800 H-Fie	ld			
Ch.	Backlight	Power	Dasy4 Reading	PMF	Pea	ak Field	Category
#		dBm	A/m			A/m	м
1013	ON	24.53	0.177	1.00	().177	4
384	ON	24.42	0.170	1.00	(0.170	4
777	ON	24.45	0.139	1.00	(0.139	4



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

10.3 CDM	IA 800 BC-1	0 Test Res	ults				
Configuratio	n: Bar			Antenr	na:	Fixed	
CDMA 800 E-Field							
Ch.	Backlight	Power	Dasy4 Reading	PMF	Pea	ak Field	Category
#		dBm	V/m			V/m	м
476	ON	24.45	75.71	1.00	7	75.71	4
580	ON	24.52	80.78	1.00	8	30.78	4
684	ON	24.51	71.97	1.00	7	71.97	4
		CI	DMA 800 H-Fie	ld			
Ch.	Backlight	Power	Dasy4 Reading	PMF	Pea	ak Field	Category
#		dBm	A/m			A/m	м
476	ON	24.45	0.179	1.00	C).179	4
580	ON	24.52	0.197	1.00	C).197	4
684	ON	24.51	0.182	1.00	C).182	4



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

10.4 CDM	A 1900 Te	st Results					
Configuration	n: Bar			Ante	enna:	Fixed	I
	CDMA 1900 E-Field						
Ch.	Backlight	Power	Dasy4 Reading	PMF	Peak F	ield	Category
#		dBm	V/m		V/m	า	М
25	ON	24.48	51.52	1.00	51.5	2	4
600	ON	24.50	54.06	1.00	54.0	6	4
1175	ON	24.60	52.58	1.00	52.5	8	4
		C	DMA 1900 H-Fi	eld			
Ch.	Backlight	Power	Dasy4 Reading	PMF	Peak F	ield	Category
#		dBm	A/m		A/m	ו	м
25	ON	24.48	0.136	1.00	0.13	6	4
600	ON	24.50	0.124	1.00	0.12	4	4
1175	ON	24.60	0.122	1.00	0.12	2	4



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-R0

10.5 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 800 BC-0 E-Field							
Configuration: Bar Antenna: Fixed							
Ch.	Backlight		Conducted Power	Peak Field	PMF	Peak Field	Category
#			dBm	V/m		V/m	М
1013	0	N	24.53	76.45	1.00		4

CDMA 800 BC-10 E-Field							
Configuratio	onfiguration: Bar Antenna: Fixed						
Ch.	Backlight		Conducted Power	Peak Field	PMF	Peak Field	Category
#			dBm	V/m		V/m	М
580	0	N	24.52	80.78	1.00	80.78	4

CDMA 1900 E-Field							
Configuration: Bar Antenna: Fixed							
Ch.	Backlight		Conducted Power	Peak Field	PMF	Peak Field	Category
#			dBm	V/m		V/m	Μ
600	0	N	24.50	54.06	1.00	54.06	4

Data plots are shown in Appendix C



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT-C5215_20RF-0313-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)