

Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-24-1112-R0

# C2PC

# **RF Emissions Test Report**

# FCC Part 22, 24, 27

For

Kyocera Corporation c/o Kyocera Communication Inc.

Product:	CDMA Phone
Model:	S2150



Applicant:	Kyocera
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# 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:	CDMA Cellular Phone with Bluetooth
Model #:	S2150
FCC ID:	V65S2150
Tested in accordance with:	FCC Part 22, 24, 27
Test performed by:	CompTest Services LLC
Test Requested by:	Kyocera Corporation
	c/o Kyocera Communication Inc
	8611 Balboa Avenue
	San Diego, CA 92121 United States
Date of Test:	November 5 – November 15, 2012

**Responsible Engineer** 

Benjamin Nguyen

Benjamin Nguyen Test Engineer

Reviewed and approved by:

Tammy To Quality Manager



1

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# SUMMARY OF TESTING

Section #	Rule Part	Test Description	Verdict
6	FCC § 2.1046	Conducted Power	Pass
7	FCC § 22.913, 24.232, 27.50	Radiated Power	Pass
8	FCC § 24.232(d)	Peak-to-Average Ratio	Pass
9	FCC § 2.1049, 22.917 (b)(d), 24.238, 27.53 (g)(1)	Occupied Bandwidth	Pass
10	FCC § 2.1051, 22.917(e)(f), 24.238, 27.53	Spurious Emissions at Antenna Terminals	Pass
11	FCC § 2.1053, 22.91, 24.238, 27.53(g)	Transmitter Radiated Spurious Emissions	Pass
12	FCC § 15.109	Receiver Spurious Emissions	Pass
13	FCC § 2.1055, 22.355, 24.235, 27.54	Transmitter RF Carrier Frequency Stability	Pass
14	FCC § 2.1093	Exposure of Humans to RF Fields	Pass

# 2 EQUIPMENT UNDER TEST INFORMATION

EUT Serial Number:	268435457816729384		
Туре:	[] Prototype, [X] Pre-Production, [] Production		
Equipment Category:	Portable		
RF Exposure Environment:	General Population / Uncontrolled		
Antenna:	Internal Antenna		
Detachable Antenna:	No		
External Input:	Audio/Digital Data		
Quantity:	Quantity production is planned		
Multiple Access Scheme:	CDMA		
Emission Designators:	1M25F9W		
FCC Rule Parts:	§22H	§27L	§24E
Modes:	800 CDMA	1700 CDMA	1900 CDMA
Band:	BC-0	BC-15	BC-1
TX Frequency (MHz):	824-849	1710-1755	1850 - 1910

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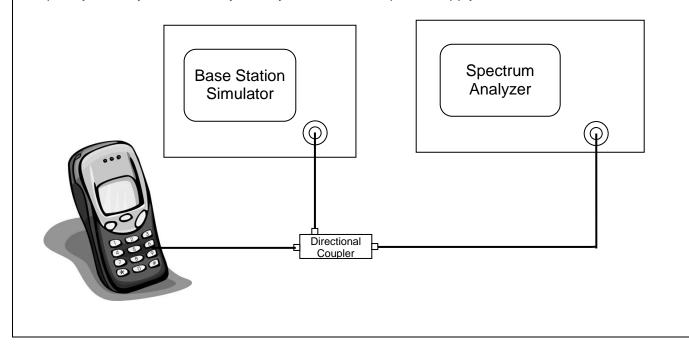
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### 3 TEST FACILITIES

The test sites and measurement facilities used to collect data are located at 8611 Balboa Avenue, San Diego, CA 92123, USA

### 4 TEST SETUP

All CDMA measurements were conducted with a base station simulator to establish a CDMA link with the equipment under test (EUT). To investigate the response of the EUT the main antenna RF output port of the EUT was connected to the input of the spectrum analyzer with a RF cable. The amplitude of the spectrum analyzer is corrected for the cable insertion loss and any other applicable losses. A fully charged battery was used as a power supply voltage, except for the Transmitter RF Carrier Frequency Stability test a dummy battery connected to a power supply was used.





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# 4.1 Test Configuration

To justify on the selection of applicable configurations, the EUT was pre-tested under all Radio Configuration and Service Option operation modes to determine the worst-case scenario.

The following configuration was determined and reported as worst-case for all measurements:

Radio Configuration:	RC1
Service Options:	SO55
Data Rate:	Full Rate

					CONDUCTED POWER (dBm)				
CONFIGURATION	CDMA 800		CDMA 1700			CDMA 1900			
Peak Power	Ch 1013	Ch 384	Ch 777	Ch 25	Ch 450	Ch 875	Ch 25	Ch 600	Ch 1175
	Peak	Peak	Peak	Peak	Peak	Peak	Peak	Peak	Peak
SO2, RC1 Full Rate	29.29	29.70	29.69	28.79	28.48	29.11	28.64	29.24	29.10
SO2, RC3 Full Rate	29.08	29.36	29.31	28.28	27.97	28.77	28.36	28.95	28.70
SO55, RC1 Full Rate	29.42	29.77	29.70	28.90	28.96	28.97	28.14	28.95	28.47
SO55, RC3 Full Rate	29.28	29.61	29.67	28.25	28.51	28.45	27.81	28.32	28.36
TDSO SO32, RC3 (+SCH) Full Rate	28.99	29.21	29.28	28.54	28.76	28.70	28.07	28.85	28.67
TDSO SO32, RC3 (+F-SCH) Full Rate	29.00	29.23	29.33	28.55	28.65	28.72	28.02	28.82	28.72

	CONDUCTED POWER (dBm)								
CONFIGURATION	C	CDMA 800		CDMA 1700			CDMA 1900		
	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch
Average Power	1013	384	777	25	450	875	25	600	1175
	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
SO2, RC1 Full Rate	25.05	25.02	25.01	23.89	23.98	24.15	23.68	23.61	23.98
SO2, RC3 Full Rate	25.06	24.96	24.96	23.90	23.89	24.11	23.71	23.60	24.01
SO55, RC1 Full Rate	25.08	25.05	25.05	23.92	24.22	24.18	23.81	23.75	24.07
SO55, RC3 Full Rate	25.10	25.08	25.08	23.86	24.23	24.19	23.71	23.69	24.01
TDSO SO32, RC3 (+SCH) Full Rate	25.06	24.96	25.01	24.10	24.47	24.36	23.55	23.43	24.01
TDSO SO32, RC3 (+F-SCH) Full Rate	24.06	24.95	25.02	24.08	24.46	24.36	23.47	23.42	24.01



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### 5 TTY COMPLIANCE

#### FCC: § 255 of the Telecom Act

The EUT has been designed for TTY Compliance with Cellular Compatibility Standard.

### 6 CONDUCTED RF OUTPUT POWER

# 6.1 Test Configuration

FCC: § 2.1046

IC: RSS132 §4.4; RSS133 §6.4

The EUT was connected to a Universal Power Meter through a RF cable. The cable loss was taken into account for accurate power measurement. The EUT was set at low, mid, high channels and each frequency band to investigate the conducted power.

6.2 Test Result	6.2 Test Results					
Mode	Frequency (MHz)	Channel	Conducted Power (dBm)			
	824.70	1013	25.10			
CDMA 800	836.52	384	25.08			
	848.31	777	25.08			
	1711.25	25	23.86			
CDMA 1700	1732.5	450	24.23			
	1753.75	875	24.19			
	1851.25	25	23.71			
CDMA 1900	1880	600	23.69			
	1908.75	1175	24.01			



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# 7 RADIATED RF OUTPUT POWER

7.1 Test Configuration

FCC: § 22.913, § 24.232, §27.50

IC: RSS132 §4.4; RSS133 §6.4

The test was performed in Compliance Certification Service using substitution method. See separated radiated emission report for details.



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# 8 PEAK-AVERAGE RATIO

8.1	Test Configuration
	1 ool oomigaration

FCC: § 24.232(d)

IC: RSS133 (6.4)

The RF output of the EUT was connected to the input of the spectrum analyzer (S.A.) with sufficient attenuation. The spectrum analyzer Complementary Cumulative Distribution Function (CCDF) function is utilized to determine the largest deviation between average and peak power of the EUT.

For Digital: Modulate with full rate and all up power control bit.

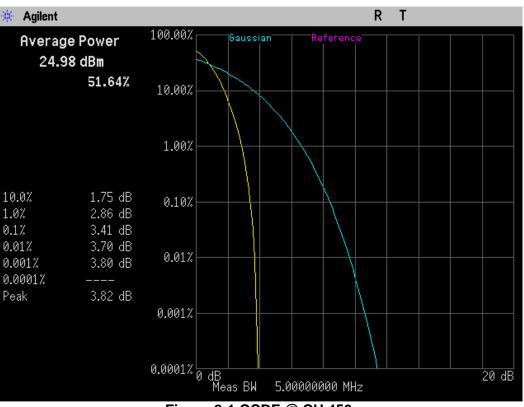
S.A. Setting	RBW	VBW
Power Stat CCDF	5MHz	auto

Limits: <13 dB

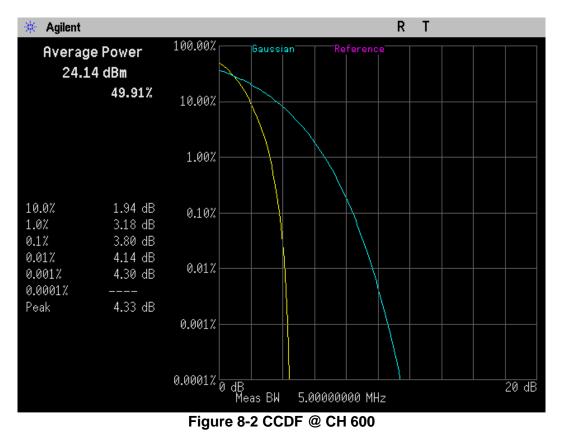
8.2 Test	Result		
Figure	Description	Mode	Result
8-1	CCDF @ Ch450	CDMA 1700	Pass
8-2	CCDF @ Ch600	CDMA 1900	Pass



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### 9 OCCUPIED BANDWIDTH

#### 9.1 Test Configuration

FCC: § 2.1049, § 22.917(b)(d), § 24.238, § 27.53(g)(1)

IC: RSS132 §4.5; RSS133 §6.5

The RF output of the EUT was connected to the input of the spectrum analyzer (S.A.) with sufficient attenuation. The spectrum with no modulation was recorded.

For Digital: Modulate with full rate all up power control bit.

S.A. Setting	RBW	VBW
Bandwidth Measurement	30KHz	300kHz
Band Edge Measurement	30KHz	100KHz

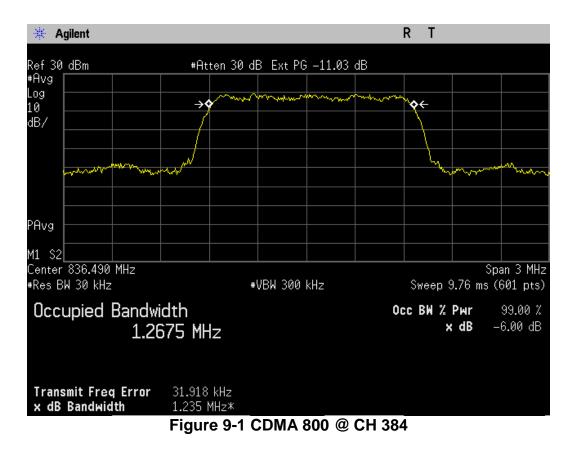
Limits: Bandwidth: N/A

Bandedge: -13dBm

9.2 Test	Result		
Figure	Description	Mode	Result
9-1	CDMA @ CH384		Pass
9-2	Lower Band Edge @ CH 1013	CDMA 800	Pass
9-3	Upper Band Edge @ CH 777		Pass
9-4	AWS @ CH450		Pass
9-5	Lower Band Edge @ CH 25	CDMA 1700	Pass
9-6	Upper Band Edge @ CH 875		Pass
9-7	CDMA @ CH600		Pass
9-8	Lower Band Edge @ CH 25	CDMA 1900	Pass
9-9	Upper Band Edge @ CH 1175		Pass

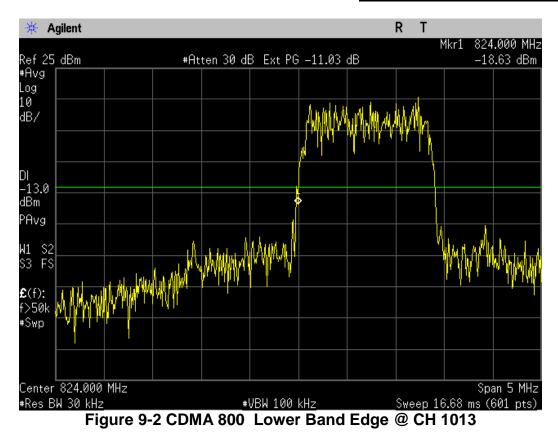


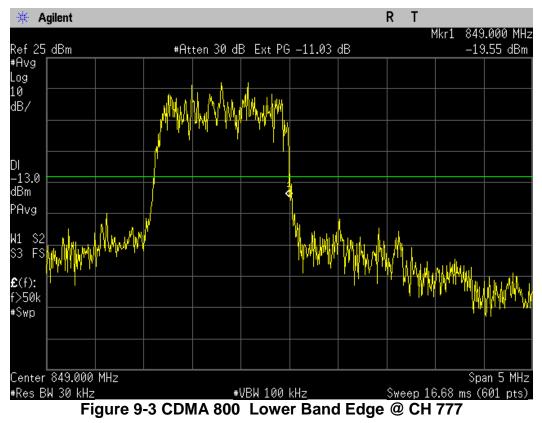
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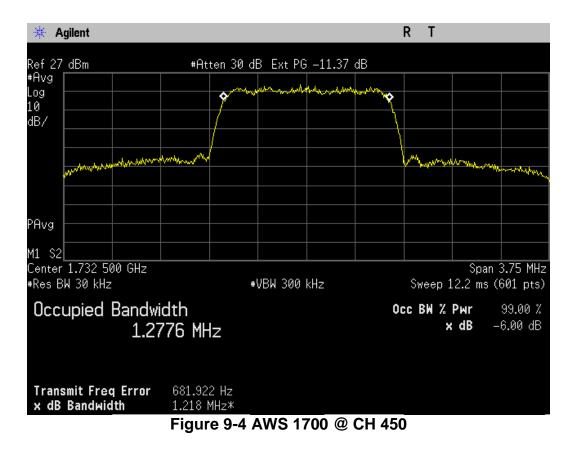




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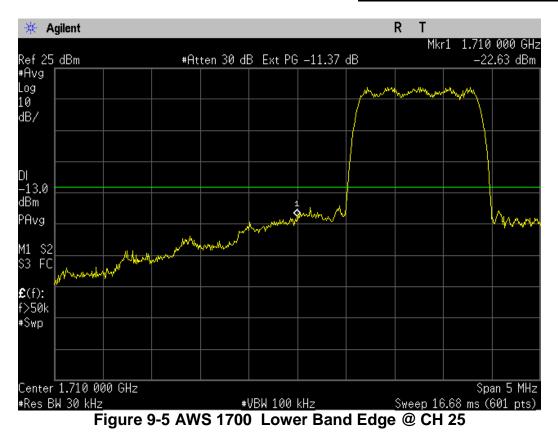


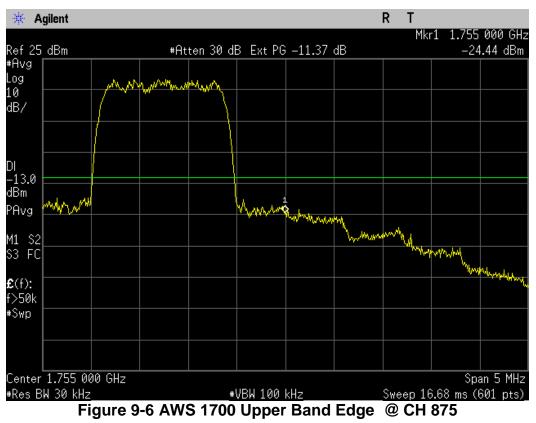
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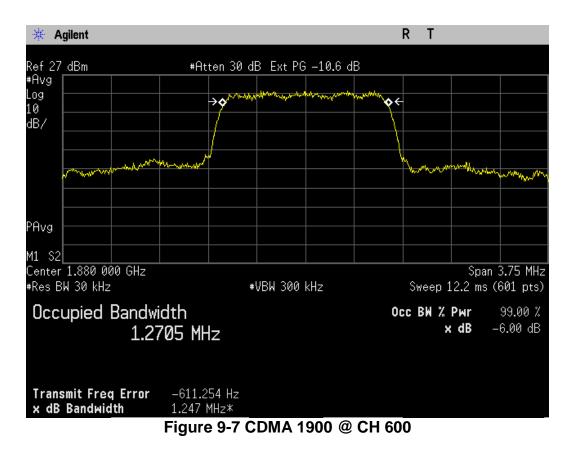




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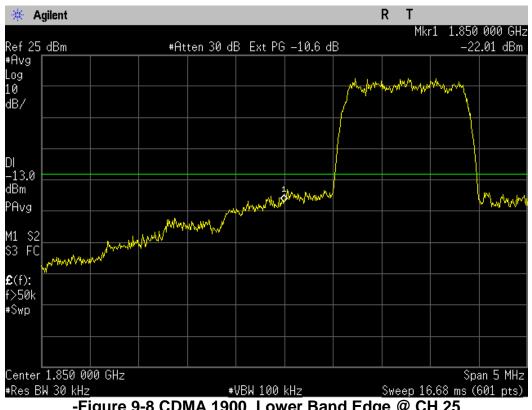


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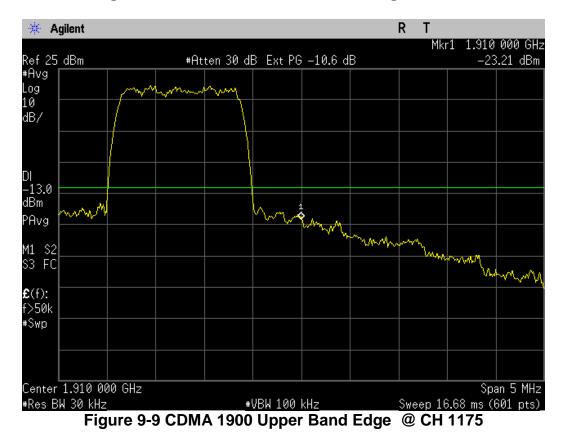




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-Figure 9-8 CDMA 1900 Lower Band Edge @ CH 25



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# 10 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### 10.1 Test Configuration

FCC: § 2.1051, § 22.917(e)(f), § 24.238, § 27.53

IC: RSS132 §4.5; RSS133 §6.5

#### Measurement Procedures:

<u>Out of Band:</u> The RF output of the EUT was connected to the input of the spectrum analyzer with sufficient attenuation. The modulating signal was applied accordingly. The frequency spectrum was investigated from the lowest frequency signal generated up to at least the tenth harmonic of the fundamental.

S.A. Setting	RBW	VBW
Spurious Emissions Measurement	1MHz	1MHz

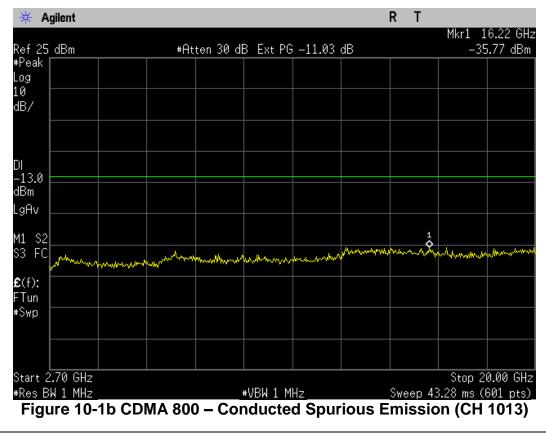
Limits: -13dBm

10.2 Test Result					
Figure	Channel	Plot Description	Result		
10-1	1013	CDMA 800 Conducted spurious emissions	Pass		
10-2	384	30MHz to 20GHz	Pass		
10-3	777		Pass		
10-4	25	CDMA 1700 Conducted spurious emissions	Pass		
10-5	450	30MHz to 20GHz	Pass		
10-6	875		Pass		
10-7	25	CDMA 1900 Conducted spurious emissions	Pass		
10-8	600	30MHz to 20GHz	Pass		
10-9	1175		Pass		



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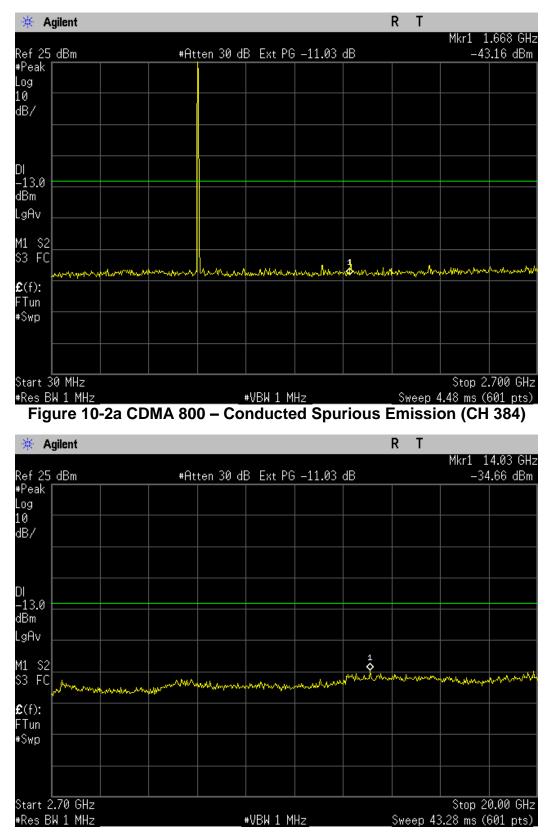
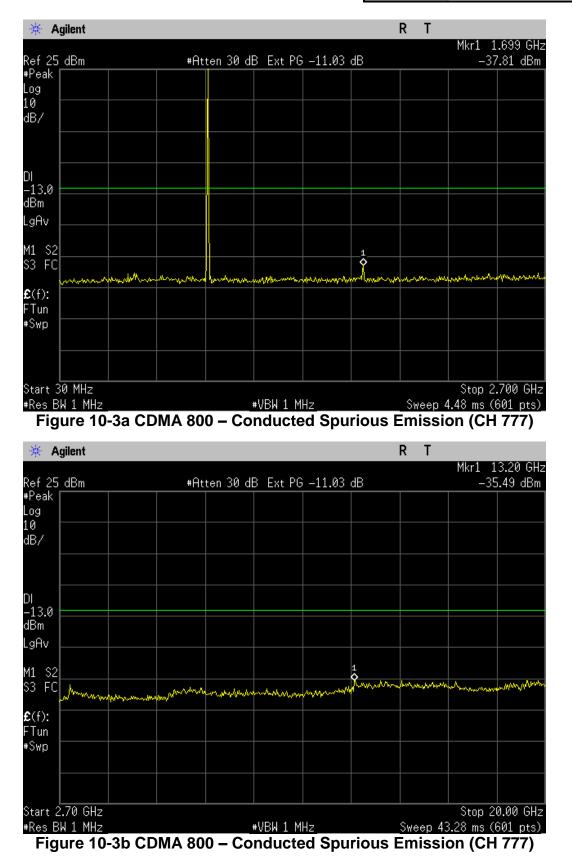


Figure 10-2b CDMA 800 – Conducted Spurious Emission (CH 384)

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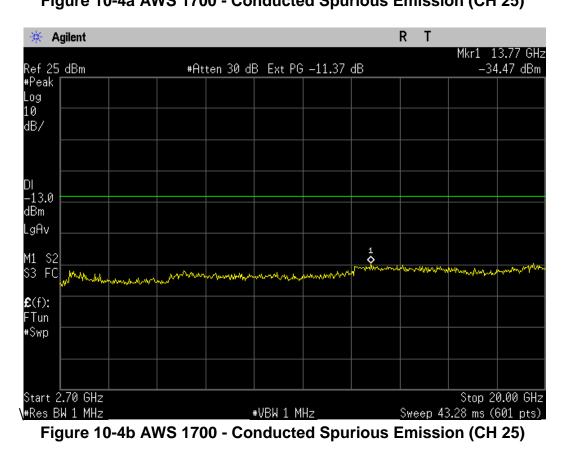


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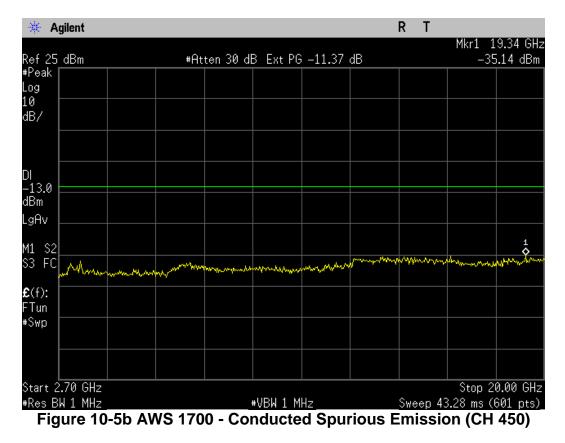
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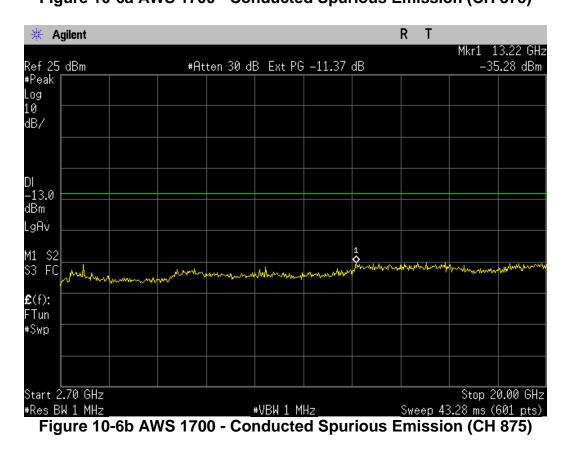


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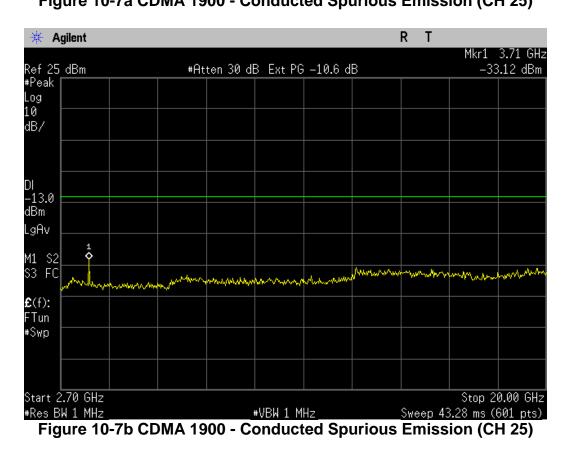


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🔆 Agilent							R	Т		
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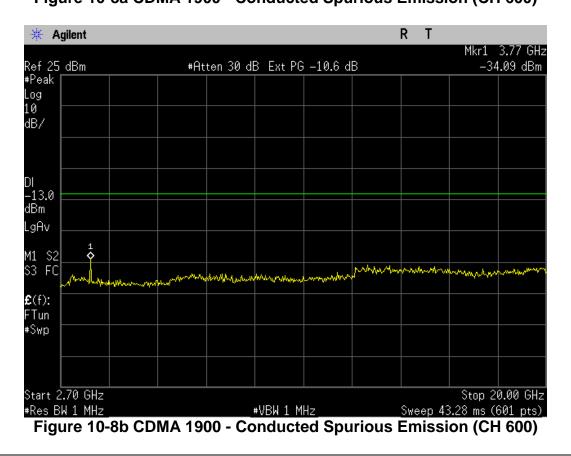


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Agilent					RT	Mkr1 2	2.522
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s BW 1 MHz		#V	BW 1 MHz		Sweep	4.48 ms (	601 pt

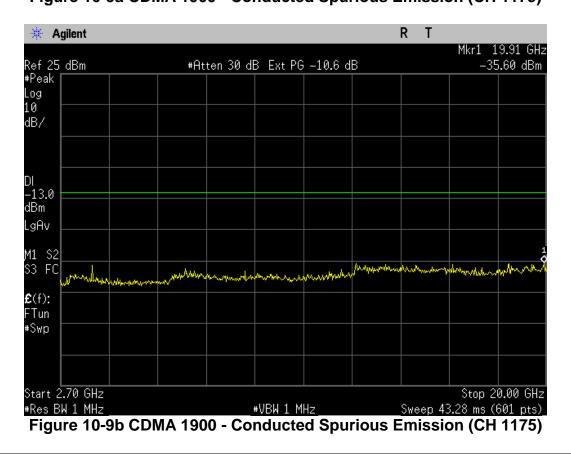


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K Agilent						RT	Mkr1	973 M
∍f 25 dBm	#Atte	en 30 dB	Ext PG	-10.6 d	В			).55 dB
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es BW 1 MHz		#	VBW 1 M	U-7		Sucon	4.48 ms (	



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### 11 TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC: § 2.1053, § 22.91, § 24.238, §27.53(g)

IC: RSS132 §4.5; RSS133 §6.5

The radiated spurious emission test was performed at Compliance Certification Service. The test report is attached in a separate attachment.

# 12 RECEIVER SPURIOUS EMISSIONS

### 12.1 Receiver Spurious Emissions

FCC: § 15.109

IC: RSS-GEN

The receiver radiated spurious emission test was performed at Compliance Certification Service. The test report is attached in a separate attachment.



Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-24-1112-R0

## 13 TRANSMITTER RF CARRIER FREQUENCY STABILITY

#### **13.1** Test Configuration

FCC: § 2.1055, § 22.355, § 24.235, § 27.54

IC: RSS132 §4.3; RSS133 §6.3

The EUT was placed in an environmental chamber. The RF output of the EUT was connected to Agilent 8960 Series 10 E5515C. A power supplier was connected as primary voltage supply. Only the mid channel of each frequency band was investigated.

#### Limits:

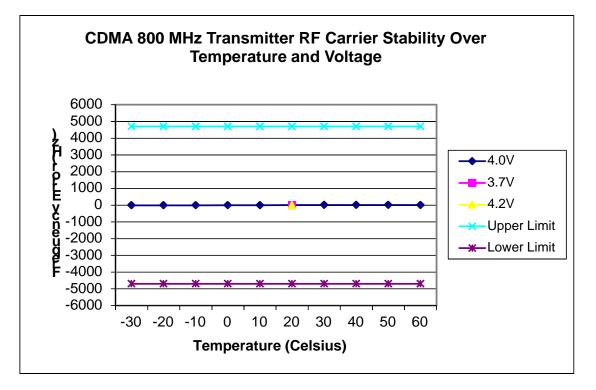
Tx Frequency	Channel	Limit
836.49 MHz	384	+/- 2.5 ppm (+/-2091 Hz)
1732.5 MHz	450	+/- 2.5 ppm (+/-4331 Hz)
1880 MHz	600	+/- 2.5 ppm (+/-4700 Hz)



Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-24-1112-R0

## 13.2 Test Result

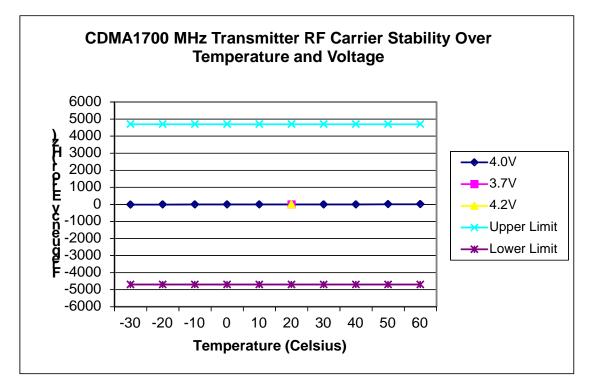
	Deviation of Carrier (Hz)			Specifica	ation (Hz)
Temperature	3.3V (Battery endpoint)	3.7V	4.2V (115%)	Lower limit	Upper limit
-30		-10.11		-4700	4700
-20		-9.57		-4700	4700
-10		-10.77		-4700	4700
0		-6.17		-4700	4700
10		-5.87		-4700	4700
20	-4.28	3.93	-5.42	-4700	4700
30		7.25		-4700	4700
40		8.33		-4700	4700
50		9.37		-4700	4700
60		5.35		-4700	4700





Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-24-1112-R0

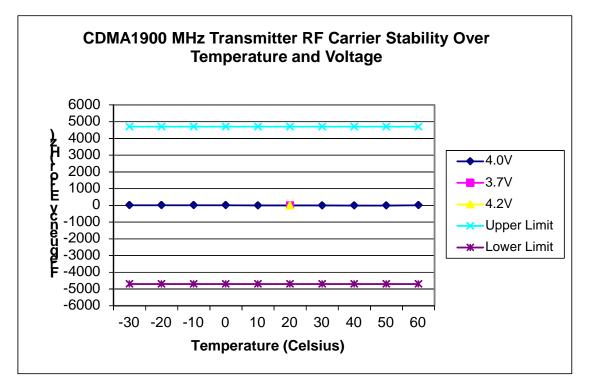
.x <sup>0</sup>	Deviation of Carrier (Hz)			Specifica	ation (Hz)
Temperature	3.3V (Battery endpoint)	3.7V	4.2V (115%)	Lower limit	Upper limit
-30		-13.57		-4700	4700
-20		-8.99	1	-4700	4700
-10		-6.45	1	-4700	4700
0		-8.13	1	-4700	4700
10		-5.70	<b> </b>	-4700	4700
20	-8.04	-6.73	5.18	-4700	4700
30		-6.85		-4700	4700
40		-7.38	<b> </b>	-4700	4700
50		8.21		-4700	4700
60		7.93		-4700	4700





Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-24-1112-R0

.x <sup>0</sup>	Deviation of Carrier (Hz)			Specifica	ation (Hz)
Temperature	3.3V (Battery endpoint)	3.7V	4.2V (115%)	Lower limit	Upper limit
-30		9.67		-4700	4700
-20		8.53	1	-4700	4700
-10		7.79	1	-4700	4700
0		8.91	1	-4700	4700
10		-6.29	l	-4700	4700
20	-6.65	-6.74	-5.84	-4700	4700
30		-7.02		-4700	4700
40		-8.42		-4700	4700
50		-8.79		-4700	4700
60		8.12		-4700	4700





Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-24-1112-R0

# 14 EXPOSURE OF HUMANS TO RF FIELDS (SAR)

## **14.1** Test Configuration and Result

=	0.0.4000
FCC:	§ 2.1093

IC: RSS102

The SAR test report is attached in a separate attachment.

### 15 TEST EQUIPMENT

The test 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.

Description	Manufacturer	Model No.	Serial No.	Cal Due Date
Power Meter	Giga-tronics	8541C	1831306	09/08/13
Spectrum Analyzer	Agilent	E4440A	MY44303130	12/14/12
Wireless Communications Test Set	Agilent	8960	GB44052789	12/02/13
Temperature Chamber	Test Equity	ZH2-033-033- H/AC	ZZ9622421	07/24/13