

FCC CFR47 PART 22 SUBPART H FCC CFR47 PART 24 SUBPART E INDUSTRY CANADA RSS-132 ISSUE 2 INDUSTRY CANADA RSS-133 ISSUE 5 CLASS II PERMISSIVE CHANGE

CERTIFICATION TEST REPORT FOR

EUT: PCI EXPRESS MINI CARD HOST: HANDHELD TERMINAL

FCC MODEL NUMBER: MC8795V HOST MODEL NUMBER: IT-800G

> FCC ID: N7NMC8795 IC: 2417C- MC8795

REPORT NUMBER: 09J12968-2

ISSUE DATE: APRIL 22, 2010

Prepared for

SIERRA WIRELESS INC. 13811 WIRELESS WAY RICHMOND, BC, V6V 3A4, CANADA

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
	04/22/10	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

	APPLICABLE STANDARDS
DATE TESTED:	FEBRUARE 21 TO APRIL 22, 2010
SERIAL NUMBER:	02132
HOST DESCRIPTION: HOST MODEL:	HANDHELD TERMINAL IT-800G
EUT DESCRIPTION: MODEL:	PCI EXPRESS MINI CARD MC8795V
COMPANY NAME:	SIERRA WIRELESS INC. 13811 WIRELESS WAY RICHMOND, BC. V6V 3A4, CANADA

STANDARD	TEST RESULTS
FCC PART 22H AND 24E	PASS
IC RSS-132 ISSUE 2 AND RSS-133 ISSUE 5	PASS

Compliance Certification Services, Inc. (CCS) 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 CCS 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 Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

THU CHAN EMC MANAGER COMPLIANCE CERTIFICATION SERVICES Tested By:

MENGISTU MEKURIA EMC ENGINEER COMPLIANCE CERTIFICATION SERVICES

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, FCC CFR 47 Part 22, FCC CFR Part 24, FCC Part 27, RSS-132 Issue 2, RSS-133 Issue 5 and RSS-139 Issue 2.

3. FACILITIES AND ACCREDITATION

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

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

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.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a PCI Express Mini Card supporting GPRS/EGPRS 850/1900 and WCDMA FDD II and V. The Host device is a Handheld Terminal (FCC ID: BBQIT800) with Bluetooth and RFID feature intended for data and voice transmission. The EUT is manufactured by Sierra Wireless and the Host device is manufactured by Casio Computer Co., Ltd.

The model number IT-800G is used only in case the MC8795V PCI Express Mini Card is mounted in a Handheld Terminal (FCC ID:BBQIT800) to distinguish from one in which the MC8795V PCI Express Mini Card is not mounted

5.2. MAXIMUM OUTPUT POWER

The test measurement passed within \pm 0.5dBm of the original output power.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major change filed under this application as follow:

Change #1: To change from Limited Modular Approval, Mobile Condition to Limited Modular Approval, Portable Condition.

Change #2: Collocated with Bluetooth and RFID radio FCC ID: BBQIT800.

5.4. MAXIMUM RADIATED OUTPUT POWER

The transmitter has a maximum ERP & EIRP output powers as follows:

GPRS MODE

824 to 849 MHz Authorized Band

Frequency Range	Modulation	ERP	ERP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 824.2		19.1	81.3
Mid CH - 836.6	GPRS	20.3	107.2
High CH - 848.8		22.3	169.8

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	EIRP	EIRP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 1850.2		31.2	1318.3
Mid CH - 1880.00	GPRS	31.7	1479.1
High CH - 1909.8		30.5	1122.0

EGPRS MODE

824 to 849 MHz Authorized Band

Frequency Range	Modulation	ERP	ERP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 824.2		18.00	63.1
Mid CH - 836.6	EGPRS	19.00	79.4
High CH - 848.8		20.50	112.2

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	EIRP	EIRP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 1850.2		28.30	676.1
Mid CH - 1880.00	EGPRS	29.00	794.3
High CH - 1909.8		27.60	575.4

UMTS REL99

824 to 849 MHz Authorized Band

Frequency Range	Modulation	ERP	ERP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 826.4		11.50	14.1
Mid CH - 835.0	WCDMA	12.40	17.4
High CH - 846.6		12.70	18.6

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	EIRP	EIRP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 1852.4		27.60	575.4
Mid CH - 1880.00	WCDMA	28.60	724.4
High CH - 1907.6		27.80	602.6

HSDPA REL6

824 to 849 MHz Authorized Band

Frequency Range	Modulation	ERP	ERP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 826.4		10.70	11.7
Mid CH - 835.0	HSDPA	11.60	14.5
High CH - 846.6	1	10.80	12.0

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	EIRP	EIRP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 1852.4		27.60	575.4
Mid CH - 1880.00	HSDPA	27.90	616.6
High CH - 1907.6		26.10	407.4

HSPA REL6 (HSDPA & HSUPA)

824 to 849 MHz Authorized Band

Frequency Range	Modulation	ERP	ERP
		Peak Power	Peak Power
(MHz)		(dBm)	(mW)
Low CH - 826.4		11.20	13.2
Mid CH - 835.0	HSPA	11.70	14.8
High CH - 846.6	1	10.70	11.7

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	EIRP	EIRP	
		Peak Power	Peak Power	
(MHz)		(dBm)	(mW)	
Low CH - 1852.4		26.70	467.7	
Mid CH - 1880.00	HSPA	28.20	660.7	
High CH - 1907.6		26.60	457.1	

5.5. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was rsceex-AT.exe

The EUT was also linked with Agilent Communication Test Set.

5.6. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, Z-Positions, and the EUT with the Ethernet Cradle and AC/DC adapter. After the investigations, the worst-position was turned out to be EUT with the Ethernet Cradle and AC/DC adapter for both Cell and PCS bands.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	FCC ID	
Ethernet Cradle	Casio	HA-H62IO	2060	DoC	
AC/DC Adapter	Casio	AD-S42120B	N/A	DoC	

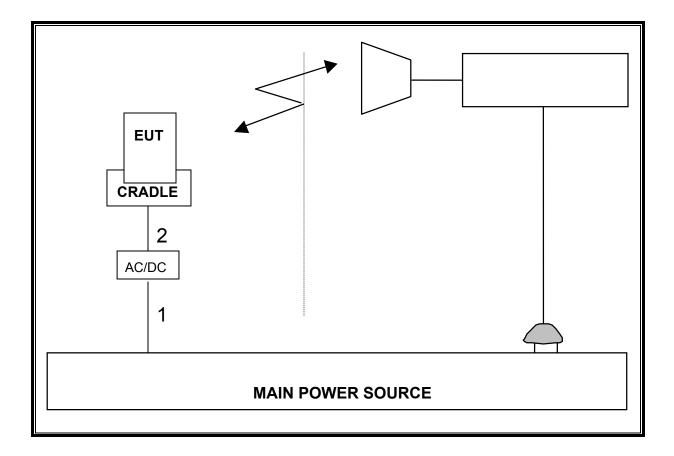
I/O CABLES

				O CABLE LIST		
Cable	Port	# of	Connector	Cable	Cable	Remarks
No.		Identical	Туре	Туре	Length	
		Ports			-	
1	AC Input	1	AC	Un-Shielded	2.0 m	N/A
2	DC Input	1	DC	Un-Shielded	2.0 m	Ferrite at one End

TEST SETUP

The host device with EUT is a Handheld Terminal that sits on the Ethernet Cradle which connects to the AC/DC Adapter. Communications Test Set is used to link the device under test.

SETUP DIAGRAM FOR TESTS



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6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

	TEST EQUIP	MENT LIST		
Description	Manufacturer	Model	Asset	Cal Due
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	08/04/10
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	08/04/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	07/06/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00778	07/06/10
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	08/24/10
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/31/10
Antenna, Horn, 18 GHz	EMCO	3115	C00945	07/29/10
Antenna, Horn, 18 GHz	EMCO	3115	C00783	07/29/10
Antenna, Horn, 18 GHz	EMCO	3115	C00943	07/29/10
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	07/14/10
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	07/14/10
Dipole	Speag	D900V2	NA	11/16/11
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02689`	CNR
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02687	CNR
Signal Generator	R & S	SMP04	C00953	02/16/11
Communications Test Set	R & S	CMU200	C001131	04/16/10
Communications Test Set	Agilent / HP	E5515C	C01086	06/16/10
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	10/08/10
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	05/06/11
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11/06/10

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7. LIMITS AND RESULTS

7.1. RADIATED OUTPUT POWER

LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(b) & RSS133 § 6.4 Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

RSS-132 § 4.4 The maximum ERP shall be 6.3 Watts for mobile stations.

TEST PROCEDURE

ANSI / TIA / EIA 603 Clause 2.2.17, RSS-132 AND RSS-133.

RESULTS

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CELL OUTPUT POWER (ERP)

GPRS MODULATION

		Complianc	e Certificatio	n Servic	es Cham	ber B	
Company	1	CASIO					
roject #:		09J12967					
Date:		2/21/2010					
est Engi	neer:	MENGISTU M	EKURIA				
Configura	tion:	EUT ALONE					
/lode:		TX, CELL BAN	D GPRS				
Substitut	g: Sunol T130 on: Dipole S/	N: 00022117	amber N-type , 6ft SMA Cab	le (SN # 2	08947003) Warehous	e.
Receiving	g: Sunol T130	N: 00022117		le (SN # 2	•		• •
Receiving Substitut f MHz	g: Sunol T130 on: Dipole S/ SA reading (dBm)	N: 00022117, Ant. Pol. (H/V)	, 6ft SMA Cab Path Loss (dBm)	le (SN # 2 ERP (dBm)	08947003 Limit (dBm)) Warehous Margin (dB)	e.
Receiving Substitut f MHz 824.20	g: Sunol T130 on: Dipole S/ SA reading (dBm) -18.4	N: 00022117, Ant. Pol. (H/∨) V	, 6ft SMA Cab Path Loss (dBm) 32.6	le (SN # 2 ERP (dBm) 14.2	08947003 Limit (dBm) 38.5) Warehous Margin (dB) -24.2	e.
Receiving Substitut f MHz	g: Sunol T130 on: Dipole S/ SA reading (dBm)	N: 00022117, Ant. Pol. (H/V)	, 6ft SMA Cab Path Loss (dBm)	le (SN # 2 ERP (dBm)	08947003 Limit (dBm)) Warehous Margin (dB)	e.
Receiving Substitut f MHz 824.20	g: Sunol T130 on: Dipole S/ SA reading (dBm) -18.4	N: 00022117, Ant. Pol. (H/∨) V	, 6ft SMA Cab Path Loss (dBm) 32.6	le (SN # 2 ERP (dBm) 14.2	08947003 Limit (dBm) 38.5) Warehous Margin (dB) -24.2	e.
Receiving Substitut f MHz 824.20 824.20	g: Sunol T130 on: Dipole S/ SA reading (dBm) -18.4 -11.3	N: 00022117, Ant. Pol. (H/V) V H	, 6ft SMA Cab Path Loss (dBm) 32.6 30.4	le (SN # 2 ERP (dBm) 14.2 19.1	08947003 Limit (dBm) 38.5 38.5) Warehous Margin (dB) -24.2 -19.4	e.
Receiving Substitut f MHz 824.20 824.20 836.60	g: Sunol T130 on: Dipole S/ SA reading (dBm) -18.4 -11.3 -16.0	N: 00022117, Ant. Pol. (H/V) V H	, 6ft SMA Cab Path Loss (dBm) 32.6 30.4 32.7	le (SN # 2 ERP (dBm) 14.2 19.1 16.7	08947003 Limit (dBm) 38.5 38.5 38.5) Warehous Margin (dB) -24.2 -19.4 -21.7	e.

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EGPRS MODULATION

High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company:	CASIO
Project #:	09J12967
Date:	2/21/2010
Test Engineer:	MENGISTU MEKURIA
Configuration:	EUT ALONE
Mode:	TX, CELL BAND EGPRS

Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f	SA reading	Ant. Pol.	Path Loss	ERP	Limit	Margin	Notes
MHz	(dBm)	(H/∨)	(dBm)	(dBm)	(dBm)	(dB)	
	ļ						
824.20	-20.5	V	32.6	12.1	38.5	-26.4	
824.20	-14.4	Н	30.4	16.0	38.5	-22.5	
836.60	-17.3	V	32.7	15.3	38.5	-23.1	
836.60	-11.8	Н	30.7	19.0	38.5	-19.5	
848.80	-15.5	v	32.0	16.4	38.5	-22.0	
848.80	-10.3	Н	30.8	20.5	38.5	-18.0	

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WCDMA MODULATION

High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company:	CASIO
Project #: Date:	09J12967
Date:	2/21/2010
Test Engineer:	MENGISTU MEKURIA
Configuration:	EUT ALONE
Mode:	TX, CELL BAND WCDMA

Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f	SA reading	Ant. Pol.	Path Loss	ERP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
826.40	-23.5	V	32.6	9.1	38.5	-29.3	
826.40	-18.9	Н	30.4	11.5	38.5	-26.9	
835.00	-22.3	v	32.7	10.3	38.5	-28.1	
835.00	-18.3	H	30.7	12.4	38.5	-26.0	
846.60	-22.8	V	32.0	9.2	38.5	-29.3	
846.60		H					

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HSDPA REL6

High Frequency Substitution Measurement
Compliance Certification Services Chamber B

Company:	CASIO
Project #: Date:	09J12967
Date:	4/22/2010
Test Engineer:	MENGISTU MEKURIA
Configuration:	EUT ALONE
Mode:	TX, CELL BAND HSDPA

Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f	SA reading	Ant. Pol.	Path Loss	ERP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
326.40	-21.9	V	32.6	10.7	38.5	-27.8	
826.40	-22.5	Н	30.4	7.8	38.5	-30.6	
835.00	-21.0	v	32.7	11.6	38.5	-26.8	
835.00	-22.3	Н	30.7	8.4	38.5	-30.0	
846.60	-21.1	v	32.0	10.8	38.5	-27.6	
	-22.6	H					

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HSPA REL6 (HSDPA & HSUPA)

			e Certificatio				
ompany	:	CASIO					
roject #	:	09J12967					
ate:		4/22/2010					
est Eng	ineer:	MENGISTU ME	EKURIA				
onfigura	ation:	EUT ALONE					
lode:		TX, CELL BAN	D HSUPA				
	g: Sunol T130 ion: Dipole S/	N: 00022117,	, 6ft SMA Cab	le (SN # 2	08947003) Warehous	e.
leceivin ubstitut	g: Sunol T130	N: 00022117,		le (SN # 2	-		
teceivin Substitut f MHz	g: Sunol T130 ion: Dipole S/ SA reading (dBm)	N: 00022117, Ant. Pol. (H/V)	, 6ft SMA Cab Path Loss (dBm)	e (SN # 2 ERP (dBm)	08947003 Limit (dBm)) Warehous Margin (dB)	e.
f MHz 826.40	g: Sunol T130 ion: Dipole S/ SA reading (dBm) -21.4	N: 00022117, Ant. Pol. (H/∨) V	, 6ft SMA Cab Path Loss (dBm) 32.6	e (SN # 2 ERP (dBm) 11.2	08947003 Limit (dBm) 38.5) Warehous Margin (dB) -27.2	e.
teceivin Substitut f MHz	g: Sunol T130 ion: Dipole S/ SA reading (dBm)	N: 00022117, Ant. Pol. (H/V)	, 6ft SMA Cab Path Loss (dBm)	e (SN # 2 ERP (dBm)	08947003 Limit (dBm)) Warehous Margin (dB)	e.
f MHz 826.40	g: Sunol T130 ion: Dipole S/ SA reading (dBm) -21.4	N: 00022117, Ant. Pol. (H/∨) V	, 6ft SMA Cab Path Loss (dBm) 32.6	e (SN # 2 ERP (dBm) 11.2	08947003 Limit (dBm) 38.5) Warehous Margin (dB) -27.2	e.
f MHz 826.40 826.40	g: Sunol T130 ion: Dipole S/ SA reading (dBm) -21.4 -21.3	N: 00022117, Ant. Pol. (H/∨) V H	, 6ft SMA Cab Path Loss (dBm) 32.6 30.4	ERP (dBm) 11.2 9.1	08947003 Limit (dBm) 38.5 38.5) Warehous Margin (dB) -27.2 -29.4	e.
eceivin substitut f MHz 826.40 826.40 835.00 835.00	g: Sunol T130 ion: Dipole S/ SA reading (dBm) -21.4 -21.3 -20.9 -20.6	N: 00022117, Ant. Pol. (H/V) V H V H	, 6ft SMA Cab Path Loss (dBm) 32.6 30.4 32.7 30.7	ele (SN # 2 ERP (dBm) 11.2 9.1 11.7 10.2	08947003 Limit (dBm) 38.5 38.5 38.5 38.5) Warehous Margin (dB) -27.2 -29.4 -26.7 -28.3	e.
eceivin substitut f MHz 826.40 826.40 835.00	g: Sunol T130 ion: Dipole S/ SA reading (dBm) -21.4 -21.3 -20.9	N: 00022117, Ant. Pol. (H/V) V H	, 6ft SMA Cab Path Loss (dBm) 32.6 30.4 32.7	ERP (dBm) 11.2 9.1 11.7	Limit (dBm) 38.5 38.5 38.5) Warehous Margin (dB) -27.2 -29.4 -26.7	e.

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PCS OUTPUT POWER (EIRP)

GPRS MODULATION

Company		CASIO					
Project #:		09J12967					
Date:		2/21/2010					
Fest Eng		MENGISTU MEKURIA					
Configura		EUT ALONE					
Mode:		EUT ALONE TX, PCS BAND GPRS					
	g: Horn T59, an			(0000.470			
Receivin				(2089470	03) Wareh	ouse	
Receivin	g: Horn T59, an			(2089470 EIRP	03) Wareh Limit	ouse Delta	Notes
Receivin Substitut	g: Horn T59, an ion: Horn T72 \$	Substitution,	6ft SMA Cable	·			Notes
Receivin Substitut f GHz	g: Horn T59, an ion: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Receivin Substitut f GHz	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -12.3	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 27.9	Limit (dBm) 33.0	Delta (dB) -5.1	Notes
Receivin Substitut f GHz	g: Horn T59, an ion: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Receivin Substitut f GHz	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -12.3	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 27.9	Limit (dBm) 33.0	Delta (dB) -5.1	Notes
Receivin Substitut f GHz .850	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -12.3 -8.3	Substitution, Ant. Pol. (H/V) V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5	EIRP (dBm) 27.9 31.2	Limit (dBm) 33.0 33.0	Delta (dB) -5.1 -1.8	Notes
Receivin Substitut f GHz 1.850 1.850	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -12.3 -8.3 -13.5	Substitution, Ant. Pol. (H/V) V H V	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3	EIRP (dBm) 27.9 31.2 26.8	Limit (dBm) 33.0 33.0 33.0	Delta (dB) -5.1 -1.8 -6.2	Notes

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EGPRS MODULATION

		Complianc	e Certificatior	Service	s champ		
Company	:	CASIO					
Project #	:	09J12967					
Date:		2/21/2010					
Test Eng	ineer:	MENGISTU MEKURIA					
Configura	ation:	EUT ALONE					
Mode:		TX, PCS BAND EGPRS					
Substitut	g: Horn T59, an ion: Horn T72 S	Substitution,	6ft SMA Cable				
Receivin	g: Horn T59, an			(2089470 EIRP (dBm)	03) Wareh Limit (dBm)	ouse Delta (dB)	Notes
Receivin Substitut f	g: Horn T59, an ion: Horn T72 S SA reading	Substitution, Ant. Pol.	6ft SMA Cable Path Loss	EIRP	Limit	Delta	Notes
Receivin Substitut f GHz 1.850	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -15.1	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm)	Limit (dBm) 33.0	Delta (dB) -7.9	Notes
Receivin Substitut f GHz 1.850	g: Horn T59, an ion: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Receivin Substitut f GHz 1.850 1.850	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -15.1 -11.2	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2 39.5	EIRP (dBm) 25.1 28.3	Limit (dBm) 33.0 33.0	Delta (dB) -7.9 -4.7	Notes
Receivin Substitut f GHz 1.850 1.850 1.880	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -15.1	Substitution, Ant. Pol. (H/V) V H	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm)	Limit (dBm) 33.0	Delta (dB) -7.9	Notes
Receivin Substitut f GHz 1.850 1.850 1.880 1.880	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -15.1 -11.2 -16.2 -11.1	Substitution, Ant. Pol. (H/V) V H V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3 40.1	EIRP (dBm) 25.1 28.3 24.1 29.0	Limit (dBm) 33.0 33.0 33.0 33.0	Delta (dB) -7.9 4.7 8.9 4.0	Notes
Receivin Substitut f GHz 1.850	g: Horn T59, an ion: Horn T72 S SA reading (dBm) -15.1 -11.2 -16.2	Substitution, Ant. Pol. (H/V) V H V	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3	EIRP (dBm) 25.1 28.3 24.1	Limit (dBm) 33.0 33.0 33.0	Delta (dB) -7.9 -4.7 -8.9	Notes

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WCDMA MODULATION

Company	:	CASIO					
Project #	:	09J12967					
Date:		2/21/2010					
Test Eng	ineer:	MENGISTU MEKURIA					
Configura	ation:	EUT ALONE					
Mode:		TX, PCS BAND	D WCDMA				
Substitut	g: Horn T59, an ion: Horn T72 S	Substitution,	6ft SMA Cable				Notes
				(2089470 EIRP (dBm)	03) Wareh Limit (dBm)	ouse Delta (dB)	Notes
Substitut f	ion: Horn T72 S	Substitution, Ant. Pol.	6ft SMA Cable Path Loss	EIRP	Limit	Delta	Notes
Substitut f GHz 1.852	ion: Horn T72 S SA reading (dBm) -16.4	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 23.8	Limit (dBm) 33.0	Delta (dB) -9.2	Notes
Substitut f GHz 1.852	ion: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Substitut f GHz 1.852 1.852	ion: Horn T72 S SA reading (dBm) -16.4 -11.9	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2 39.5	EIRP (dBm) 23.8 27.6	Limit (dBm) 33.0 33.0	Delta (dB) -9.2 -5.4	Notes
Substitut f GHz 1.852 1.852 1.880	ion: Horn T72 S SA reading (dBm) -16.4	Substitution, Ant. Pol. (H/V) V H	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 23.8	Limit (dBm) 33.0	Delta (dB) -9.2	Notes
Substitut f GHz 1.852 1.852 1.880 1.880	ion: Horn T72 S SA reading (dBm) -16.4 -11.9 -17.7 -11.6	Substitution, Ant. Pol. (H/V) V H V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3 40.1	EIRP (dBm) 23.8 27.6 22.5 28.6	Limit (dBm) 33.0 33.0 33.0 33.0	Delta (dB) -9.2 -5.4 -10.5 -4.5	Notes
Substitut f GHz 1.852 1.852 1.880	ion: Horn T72 S SA reading (dBm) -16.4 -11.9 -17.7	Substitution, Ant. Pol. (H/V) V H V	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3	EIRP (dBm) 23.8 27.6 22.5	Limit (dBm) 33.0 33.0 33.0	Delta (dB) -9.2 -5.4 -10.5	Notes

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HSDPA REL6

			uency Funda e Certificatior				
Company	:	CASIO					
Project #:		09J12967					
Date:		4/21/2010					
lest Engi	neer:	MENGISTU MEKURIA					
onfigura	tion:	EUT ALONE					
ode:		TX, PCS BANE) HSDPA				
eceiving ubstituti	g: Horn T59, an on: Horn T72 S	Substitution,	6ft SMA Cable				Notes
eceiving	g: Horn T59, an			(2089470 EIRP (dBm)	03) Wareh Limit (dBm)	Delta (dB)	Notes
Substituti f GHz	g: Horn T59, an on: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Receiving Substituti f GHz 852	g: Horn T59, an on: Horn T72 S SA reading (dBm) -18.3	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 21.9	Limit (dBm) 33.0	Delta (dB) -11.2	Notes
eceiving ubstituti f GHz 852	g: Horn T59, an on: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
f GHz 852 852	g: Horn T59, an on: Horn T72 S SA reading (dBm) -18.3	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 21.9	Limit (dBm) 33.0	Delta (dB) -11.2	Notes
Receiving Substituti	g: Horn T59, an on: Horn T72 S SA reading (dBm) -18.3 -11.9	Substitution, Ant. Pol. (H/V) V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5	EIRP (dBm) 21.9 27.6	Limit (dBm) 33.0 33.0	Delta (dB) -11.2 -5.4	Notes
Receiving Substituti f GHz .852 .852 .880	g: Horn T59, an on: Horn T72 S SA reading (dBm) -18.3 -11.9 -19.5	Substitution, Ant. Pol. (H/V) V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3	EIRP (dBm) 21.9 27.6 20.7	Limit (dBm) 33.0 33.0 33.0	Delta (dB) -11.2 -5.4 -12.3	Notes

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HSPA REL6 (HSDPA & HSUPA)

Company	:	CASIO					
Project #	:	09J12967					
Date:		4/22/2010					
Test Eng	ineer:	MENGISTU MEKURIA					
Configura	ation:	EUT ALONE					
Mode:		TX, PCS BANE) HSUPA				
	i <u>pment:</u> g: Horn T59, ar ion: Horn T72 S SA reading			(2089470 EIRP	03) Wareh Limit	nouse Delta	Notes
Receivin Substitut	g: Horn T59, ar ion: Horn T72 \$	Substitution,	6ft SMA Cable				Notes
Receivin Substitut f GHz	g: Horn T59, ar ion: Horn T72 \$ SA reading	Substitution, Ant. Pol.	6ft SMA Cable Path Loss	EIRP	Limit	Delta	Notes
Receivin Substitut f GHz 1.852	g: Horn T59, ar ion: Horn T72 S SA reading (dBm)	Substitution, Ant. Pol. (H/∨)	6ft SMA Cable Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Receivin, Substitut f GHz 1.852 1.852	g: Horn T59, ar ion: Horn T72 S SA reading (dBm) -17.8	Substitution, Ant. Pol. (H/∨) V	6ft SMA Cable Path Loss (dBm) 40.2	EIRP (dBm) 22.3	Limit (dBm) 33.0	Delta (dB) -10.7	Notes
Receivin, Substitut f GHz 1.852 1.852 1.880	g: Horn T59, ar ion: Horn T72 S SA reading (dBm) -17.8 -12.8	Substitution, Ant. Pol. (H/∨) V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5	EIRP (dBm) 22.3 26.7	Limit (dBm) 33.0 33.0	Delta (dB) -10.7 -6.3	Notes
Receivin Substitut f	g: Horn T59, ar ion: Horn T72 S SA reading (dBm) -17.8 -12.8 -17.3	Substitution, Ant. Pol. (H/∨) V H	6ft SMA Cable Path Loss (dBm) 40.2 39.5 40.3	EIRP (dBm) 22.3 26.7 23.0	Limit (dBm) 33.0 33.0 33.0	Delta (dB) -10.7 -6.3 -10.0	Notes

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7.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMIT

§22.917 (e) and §24.238 (a), RSS-132 § 4.5.1, & RSS-133 § 6.5.1 (a) (i) & (b): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

TEST PROCEDURE

ANSI / TIA / EIA 603 Clause 3.2.12 & FCC 22.917 (b) AND FCC 24.238 (b)(1)(2), RSS-132 AND RSS-133.

RESULTS

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CELL SPURIOUS & HARMONIC (EIRP)

GPRS MODULATION

				mpliance C Iz High Fred				ment			
				•	atency Sul	งจนเนนเงท	Measure	nent			
Company			PUTER CO., LT	D.							
Project#		09J12967									
Date:		3/1/2010									
Fest Eng		MENGISTU MI									
Configur				AND AC/DC AD.	APTER						
lode:		TX, GPRS CEI	LL BAND								
	Chamber		P		Filter		Limit				
5	5m Chamber B 🗸		T145 8449B -			Filter	1	-	FCC PA	RT 22 🚽	
5		· ·									
f	SA reading	Ant Pol	Dietanco	Path Loss	Preamn	Filter	ERP	Limit	Delta	Notes	
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	Notes	
	(UBIII) 824.2 MHz)	(117)	(m)					(abiii)			
.648	-34.5	Н	3.0	37.2	35.5	1.0	-31.9	-13.0	-18.9		
2.473	-34.8	H	3.0	39.8	35.4	1.0	-29.3	-13.0	-16.3		
.297	40.9	Н	3.0	43.9	35.5	1.0	-31.4	-13.0	-18.4		
.121	-59.5	Н	3.0	46.7	35.2	1.0	47.1	-13.0	-34.1		
.945	-65.6	Н	3.0	48.8	35.3	1.0	-51.1	-13.0	-38.1		
.648	-33.1	<u>v</u>	3.0	36.8	35.5	1.0	-30.9	-13.0	-17.9		
.473	-40.6	V V	3.0	41.7	35.4	1.0	-33.4	-13.0	-20.4		
.297 .121	-44.5 -59.9	V V	3.0 3.0	44.1 46.1	35.5 35.2	1.0 1.0	-34.9 -48.0	-13.0 -13.0	-21.9 -35.0		
.121 .945	-59.9 -64.5	V	3.0	46.1	35.2 35.3	1.0	-48.0	-13.0 -13.0	-35.0 -37.6		
.343	-04.J	v	3.0	+0.2	33.3	1.0	-30.0	-13.0	-51.0		
Aid Ch. (8	36.6 MHz)		-	-							
.673	-32.3	Н	3.0	37.5	35.5	1.0	-29.4	-13.0	-16.4		
.510	-36.9	Н	3.0	39.9	35.4	1.0	-31.4	-13.0	-18.4		
.346	43.5	Н	3.0	44.1	35.5	1.0	-33.9	-13.0	-20.9		
.183	-62.7	H	3.0	46.8	35.2	1.0	-50.1	-13.0	-37.1		
.020	-65.3	H	3.0	48.9	35.3	1.0	-50.6	-13.0	-37.6		
.673	-33.0	V V	3.0	37.1	35.5	1.0	-30.4	-13.0	-17.4		
.510 .346	-38.0 -45.5	V	3.0 3.0	41.8 44.3	35.4 35.5	1.0 1.0	-30.5	-13.0 -13.0	-17.5 -22.8		
.183	-40.5	V	3.0	44.5	35.2	1.0	-35.0	-13.0	-22.0		
.020	-64.6	v	3.0	48.3	35.3	1.0	-50.5	-13.0	-37.5		
		-									
	8.8 MHz)										
.697	-31.3	Н	3.0	37.7	35.5	1.0	-28.2	-13.0	-15.2		
.545	-35.7	Н	3.0	40.1	35.4	1.0	-30.0	-13.0	-17.0		
.394	42.5	H	3.0	44.3	35.5	1.0	-32.7	-13.0	-19.7		
.242	-60.3	H	3.0	47.0	35.2	1.0	47.6	-13.0	-34.6		
.090 .697	-64.6 -31.3	H V	3.0 3.0	49.1 37.4	35.3 35.5	1.0 1.0	-49.8 -28.4	-13.0 -13.0	-36.8 -15.4		
.545	-31.3 -36.8	v	3.0	42.0	35.5 35.4	1.0	-28.4	-13.0	-15.4		
.394	-30.0	v	3.0 3.0	42.0	35.5	1.0	-29.5	-13.0	-10.5		
.242	-59.5	v	3.0	46.4	35.2	1.0	-34.4	-13.0	-21.4		
5.090	-63.1	v	3.0	48.5	35.3	1.0	48.9	-13.0	-35.9		

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EGPRS MODULATION

f GHz Low Ch. (8: 1.648 2.473 3.297 4.121 4.945 1.648 2.473	Chamber Chamber B SA reading (dBm) 24.2 MHz) -35.6 -35.7 -42.6 -59.9) •	T145 Distance (m)	re-amplifer 8449B Path Loss (dB)	•	Filter	Filter 1	•	FCC PA	Limit	
f GHz Low Ch. (8: 1.648 2.473 3.297 4.121 4.945 1.648 2.473	SA reading (dBm) 24.2 MHz) -35.6 -35.7 -42.6	Ant. Pol. (H/∨)	Distance (m)	Path Loss		Filter	1	-	FCC PA	RT 22	-
GHz Low Ch. (8) 1.648 2.473 3.297 4.121 4.945 1.648 2.473	(dBm) 24.2 MHz) -35.6 -35.7 -42.6	(H/V) H	(m)								•
Low Ch. (8) 1.648 2.473 3.297 4.121 4.945 1.648 2.473	24.2 MHz) -35.6 -35.7 -42.6	H		(dB)	Preamp	Filter	ERP	Limit	Delta	Note	s
1.648 2.473 3.297 4.121 4.945 1.648 2.473	-35.6 -35.7 -42.6				(dB)	(dB)	(dBm)	(dBm)	(dB)		
2.473 3.297 4.121 4.945 1.648 2.473	-35.7 -42.6										
3.297 4.121 4.945 1.648 2.473	-42.6	Н	3.0	37.2	35.5	1.0	-33.0	-13.0	-20.0		
4.121 4.945 1.648 2.473			3.0	39.8	35.4	1.0	-30.2	-13.0	-17.2		
4.945 1.648 2.473	-59.9	H	3.0	43.9	35.5	1.0	-33.1	-13.0	-20.1		
1.648 2.473	CC C	H	3.0	46.7 48.8	35.2	1.0	47.5	-13.0	-34.5 -39.1		
2.473	-66.6 -35.2	H V	3.0 3.0	48.8	35.3 35.5	1.0 1.0	-52.1 -33.0	-13.0 -13.0	-39.1		
	-33.2	v	3.0	41.7	35.4	1.0	-35.6	-13.0	-20.0		
3.297	46.2	v	3.0	44.1	35.5	1.0	-36.6	-13.0	-22.0		
4.121	-60.1	v	3.0	46.1	35.2	1.0	-48.2	-13.0	-35.2		
4.945	-66.0	V	3.0	48.2	35.3	1.0	-52.1	-13.0	-39.1		
Mid Ch. (83	6.6 MHz)										
1.673	-33.2	Н	3.0	37.5	35.5	1.0	-30.3	-13.0	-17.3		
2.510	-37.4	Н	3.0	39.9	35.4	1.0	-31.9	-13.0	-18.9		
3.346	44.3	Н	3.0	44.1	35.5	1.0	-34.6	-13.0	-21.6		
4.183	-64.0	H	3.0	46.8	35.2	1.0	-51.4	-13.0	-38.4		
5.020	-64.3	H	3.0	48.9	35.3	1.0	49.6	-13.0	-36.6		
1.673	-33.6 -37.2	V V	3.0 3.0	37.1 41.8	35.5 35.4	1.0 1.0	-31.0 -29.8	-13.0 -13.0	-18.0 -16.8		
2.510 3.346	-37.2 -46.6	v	3.0	41.8	30.4 35.5	1.0	-29.8	-13.0 -13.0	-16.8 -23.8		
4.183	-40.0	V	3.0	44.3	35.5	1.0	-30.0	-13.0	-23.8		
5.020	-65.1	v	3.0	48.3	35.3	1.0	-51.0	-13.0	-38.0		
Hi Ch. (848.	8 MHz)										
1.697	-31.9	Н	3.0	37.7	35.5	1.0	-28.8	-13.0	-15.8		
2.545	-36.6	Н	3.0	40.1	35.4	1.0	-30.9	-13.0	-17.9		
3.394	-43.7	Н	3.0	44.3	35.5	1.0	-33.9	-13.0	-20.9		
4.242	-60.8	Н	3.0	47.0	35.2	1.0	-48.1	-13.0	-35.1		
5.090	-64.9	H	3.0	49.1	35.3	1.0	-50.1	-13.0	-37.1		
1.697	-33.6	V	3.0	37.4	35.5	1.0	-30.7	-13.0	-17.7		
2.545	-37.4	v	3.0	42.0	35.4	1.0	-29.9	-13.0	-16.9		
3.394 4.242	-45.8 -60.2	v	3.0 3.0	44.4 46.4	35.5 35.2	1.0 1.0	-35.9 -48.0	-13.0 -13.0	-22.9 -35.0		
4.242 5.090	-60.2	v	3.0	46.4	35.3	1.0	-40.0	-13.0	-35.0		
	-04.0	4	3.0		33.3			-13.0			

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WCDMA MODULATION

				mpliance C Iz High Free				ment		
Company:		C ASIO COME	UTER CO., LTI	ח						
Project #:		09J12967	01211 00., 21	2.						
Date:		3/1/2010								
Date. Test Engi		MENGISTU M								
•										
Configura Mode:		EUT, ETHERN TX, WCDMA (IET CRADLE, A	IND AC/DC AD	APTER					
noue.		IX, WODINA (
	Chamber Pre-amplifer Filter								Li	mit
5m	n Chamber B	3 -	T145	8449B	-	Filter	1	•	FCC PAR	T 22 🗸
f	SA reading	Apt Pol	Distance	Path Loss	Preamn	Filter	ERP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	NOLES
Low Ch. (82										
1.653	-45.4	H	3.0	37.3	35.5	1.0	42.7	-13.0	-29.7	
2.479	-48.9	H	3.0	39.8	35.4	1.0	43.5	-13.0	-30.5	
3.306	-61.0	H V	3.0	44.0	35.5	1.0	-51.5	-13.0	-38.5	
1.653 2.479	-49.6 -52.7	v	3.0 3.0	36.8 41.7	35.5 35.4	1.0 1.0	-47.3 -45.4	-13.0 -13.0	-34.3 -32.4	
2.479 3.306	-52.7	v	3.0 3.0	41.7	35.5	1.0	-45.4	-13.0	-32.4	
	-0010	•		7712	5515	1.9	-00.0	-10.0		
Mid Ch. (83										
1.673	47.4	H	3.0	37.5	35.5	1.0	-44.4	-13.0	-31.4	
2.509	-54.7	H	3.0	39.9	35.4	1.0	49.3	-13.0	-36.3	
3.346 1.673	-64.0 -50.1	H V	3.0 3.0	44.1 37.1	35.5 35.5	1.0	-54.4 -47.5	-13.0 -13.0	41.4 -34.5	
2.509	-50.1	v	3.0	41.8	35.5	1.0	49.5	-13.0	-34.5	
3.346	-62.8	v	3.0	44.3	35.5	1.0	-53.0	-13.0	-30.5	
5.540										
	.6 MHz)				or -	4.5		45.5		
Hi Ch. (846.	10.0	н	3.0	37.7	35.5	1.0	45.8	-13.0	-32.8	
Hi Ch. (846. 1.697	-49.0		2.0		35.4	1.0	-50.9	-13.0 -13.0	-37.9 -41.4	
Hi Ch. (846. 1.697 2.546	-56.6	H	3.0	40.1		10		13.0	-41.4	
Hi Ch. (846. 1.697 2.546 3.394	-56.6 -64.1	H H	3.0	44.3	35.5	1.0	-54.4		35.0	
Hi Ch. (846. 1.697 2.546 3.394 1.697	-56.6 -64.1 -50.9	H H V	3.0 3.0	44.3 37.4	35.5 35.5	1.0	48.0	-13.0	-35.0 -36.4	
Hi Ch. (846. 1.697 2.546 3.394	-56.6 -64.1	H H	3.0	44.3	35.5				-35.0 -36.4 -40.7	

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HSPA REL6 (HSDPA & HSUPA)

Company		C ASIO COMF	PUTER CO., LT	D.							
Project #	:	09J12967									
Date:		4/22/2010									
Test Eng	ineer:	MENGISTU M	EKURIA								
Configur		EUT ETHERN	IET CRADLE, A		APTER						
Mode:		TX, HSUPA CE									
moue.											
	Chamber Pre-amplifer						Filter		L	Limit	
5r							Filter	1	-	FCC PA	RT 22 🚽
1			,						,		
f	SA reading		Distance	Path Loss	Preamp	Filter	ERP	Limit	Delta	Notes	
GHz	(dBm)	(H/∨)	(m)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)		
Low Ch. (8	326.4 MHz)										
1.653	-59.5	Н	3.0	37.3	35.5	1.0	-56.8	-13.0	43.8		
2.479	-48.3	Н	3.0	39.8	35.4	1.0	-42.9	-13.0	-29.9		
3.306	-64.6	H	3.0	44.0	35.5	1.0	-55.1	-13.0	-42.1		
1.653	-58.2	v	3.0	36.8	35.5	1.0	-55.9	-13.0	-42.9		
2.479	-51.5	V	3.0	41.7	35.4	1.0	-44.2	-13.0	-31.2		
3.306	-63.8	V	3.0	44.2	35.5	1.0	-54.2	-13.0	-41.2		
Mid Ch. (8			2.0	27.5	25.5	4.0	E1.0	43.0	44.0		
1.673 2.509	-56.9	H	3.0	37.5	35.5	1.0	-54.0	-13.0	41.0		
	-52.0 -63.3	H	3.0 3.0	39.9 44.1	35.4 35.5	1.0	-46.5 -53.7	-13.0 -13.0	-33.5 -40.7		
3.346 1.673	-63.3	н V	3.0	44.1 37.1	35.5 35.5	1.0	-55.0	-13.0	-40.7 -42.0		
2.509	-57.6	v	3.0	37.1 41.8	35.5 35.4	1.0	-55.0	-13.0	-42.0 -35.7		
3.346	-56.1	V	3.0	41.0	35.5	1.0	-54.1	-13.0	-33.7		
5.540	-03.0	· ·	5.0	++.5	33.3	1.0	-34.1	-13.0			
Hi Ch. (846	5.6 MHz)		-								
1.697	-56.2	Н	3.0	37.7	35.5	1.0	-53.1	-13.0	-40.1		
2.546	-53.3	H	3.0	40.1	35.4	1.0	47.6	-13.0	-34.6		
	-63.9	H	3.0	44.3	35.5	1.0	-54.1	-13.0	-41.1		
3.394	-56.3	V	3.0	37.4	35.5	1.0	-53.3	-13.0	40.3		
	E7 3	V	3.0	42.0	35.4	1.0	-49.7	-13.0	-36.7		
1.697 2.546	-57.2		3.0	44.4	35.5	1.0	-54.6	-13.0	-41.6		
3.394 1.697 2.546 3.394	-57.2 -64.5	V	5.0								

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PCS Spurious & Harmonic (EIRP)

GPRS MODULATION

				mpliance Ce Iz High Freq				ment		
Company Project# Date: Test Eng	:	C ASIO COMF 09J12967 3/1/2010 MENGISTU MI	PUTER CO., LTI							
Configura Mode:	ation:		ET CRADLE, A	ND AC/DC AD/	APTER					
	Chambe	r	P	re-amplifer			Filter		Li	mit
5r	n Chamber A	· -	T145	8449B	•	Filter	1	•	FCC PAR	T 24 🗸
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	850.2 MHz)	1				1				
3.700	-30.5	Н	3.0	45.0	35.4	1.0	-19.9	-13.0	-6.9	
5.551	-61.2	H	3.0	49.9	35.4	1.0	45.7	-13.0	-32.7	
.401	-64.9 -63.1	H	3.0 3.0	52.9 55.2	35.7 35.6	1.0	-46.7 -42.4	-13.0 -13.0	-33.7 -29.4	
1.101	-65.1	п Н	3.0	55.9	34.8	1.0	-42.4	-13.0	-29.4	
2.951	-64.1	H	3.0	57.2	34.0	1.0	-39.9	-13.0	-26.9	
.700	-31.7	V	3.0	44.9	35.4	1.0	-21.2	-13.0	-8.2	
.551	-59.6	٧	3.0	49.3	35.4	1.0	-44.7	-13.0	-31.7	
.401	-60.8	V	3.0	51.8	35.7	1.0	43.7	-13.0	-30.7	
.251 1.101	-65.5 -61.6	V V	3.0 3.0	54.2 56.3	35.6 34.8	1.0 1.0	_45.9 _39.1	-13.0 -13.0	-32.9 -26.1	
2.951	-61.6	V	3.0	58.2	34.0 34.0	1.0	-39.1	-13.0	-25.6	
Aid Ch. (1 .760 .640	880.0 MHz) -28.3 -60.8	H H	3.0 3.0	45.2 50.1	35.3 35.4	1.0 1.0	-17.4 -45.2	-13.0 -13.0	<u>4.4</u> -32.2	
.520	-62.6	H	3.0	53.1	35.7	1.0	-44.2	-13.0	-31.2	
.400	-59.9	Н	3.0	55.4	35.6	1.0	-39.0	-13.0	-26.0	
1.280	-58.4	H	3.0	55.8	34.7	1.0	-36.3	-13.0	-23.3	
3.160	-66.1	H	3.0	57.6	34.0	1.0	41.5	-13.0	-28.5	
.760 .640	-33.2 -59.4	V	3.0 3.0	45.1 49.4	35.3 35.4	1.0	-22.4 -44.4	-13.0 -13.0	-9.4 -31.4	
.520	-55.4	V	3.0	49.4 52.0	35.7	1.0	44.4	-13.0	-31.4	
.400	-60.9	V	3.0	54.4	35.6	1.0	-41.0	-13.0	-28.0	
1.280	-62.2	V	3.0	56.5	34.7	1.0	-39.3	-13.0	-26.3	
3.160	-67.8	V	3.0	58.4	34.0	1.0	-42.4	-13.0	-29.4	
li Ch. (190	98 MHz)									
.820	-29.2	Н	3.0	45.3	35.3	1.0	-18.1	-13.0	-5.1	
5.729	-61.2	H	3.0	50.2	35.4	1.0	-45.4	-13.0	-32.4	
.639	-66.0	H	3.0	53.2	35.7	1.0	-47.5	-13.0	-34.5	
).549	-56.8	H	3.0	55.6	35.6	1.0	-35.7	-13.0	-22.7	
1.459	-60.1	H	3.0	55.7	34.6	1.0	-37.9	-13.0	-24.9 -29.9	
3.369	-68.0 -35.0	н V	3.0 3.0	57.9 45.2	33.9 35.3	1.0	-42.9 -24.1	-13.0 -13.0	-29.9 -11.1	
.729	-53.0	V	3.0	49.5	35.4	1.0	-24.1	-13.0	-33.5	
.639	-61.3	v	3.0	52.1	35.7	1.0	43.9	-13.0	-30.9	
.549	-61.7	٧	3.0	54.6	35.6	1.0	41.7	-13.0	-28.7	
1.459	-68.3	٧	3.0	56.7	34.6	1.0	45.2	-13.0	-32.2	
13.369	-68.1	V	3.0	58.6	33.9	1.0	-42.4	-13.0	-29.4	
							1			

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EGPRS MODULATION

Come				•	1 aon ay our	Saturon	measurer			
Compa Projec		09J12967	PUTER CO., LTI	J.						
Date:		3/1/2010								
Test E	ngineer:	MENGISTU M	EKURIA							
Config	juration:	EUT, ETHERN	IET CRADLE, A	ND AC/DC AD/	APTER					
Mode:		TX, EGPRS P	CS BAND							
			D	e-amplifer			Filter			imit
	Chambe	er		•						
	5m Chamber A	→	1145	8449B	•	Filter	1	•	FCC PA	RT 24 -
f	SA reading	Ant. Pol.	Distance	Path Loss	Preamp	Filter	EIRP	Limit	Delta	Notes
GH:	-	(H/V)	(m)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Cł	n. (1850.2 MHz)				<u>, , ,</u>					
3.700	-31.1	H	3.0	45.0	35.4	1.0	-20.4	-13.0	-7.4	
5.551 7.401	-62.4 -66.3	H H	3.0 3.0	49.9 52.9	35.4 35.7	1.0 1.0	_46.8 _48.1	-13.0 -13.0	-33.8 -35.1	
9.251	-60.3	n H	3.0	55.2	35.6	1.0	40.1	-13.0	-35.1	
11.101	-64.4	H	3.0	55.9	34.8	1.0	-42.4	-13.0	-29.4	
12.951	-62.9	Н	3.0	57.2	34.0	1.0	-38.7	-13.0	-25.7	
3.700	-33.3	V	3.0	44.9	35.4	1.0	-22.8	-13.0	-9.8	
5.551 7.401	-61.1 -66.0	v v	3.0 3.0	49.3 51.8	35.4 35.7	1.0 1.0	-46.2 -48.9	-13.0 -13.0	-33.2 -35.9	
9.251	-67.8	v	3.0	54.2	35.6	1.0	48.1	-13.0	-35.1	
11.101	-65.8	v	3.0	56.3	34.8	1.0	43.3	-13.0	-30.3	
12.951	-64.0	v	3.0	58.2	34.0	1.0	-38.9	-13.0	-25.9	
Mid Ch	. (1880.0 MHz)									
3.760	-29.4	Н	3.0	45.2	35.3	1.0	-18.6	-13.0	-5.6	
5.640	-62.6	H	3.0	50.1	35.4	1.0	-46.9	-13.0	-33.9	
7.520 9.400	-65.6	H H	3.0	53.1	35.7 35.6	1.0	-47.3 -40.7	-13.0 -13.0	-34.3	
9.400 11.280	-61.6 -60.4	H H	3.0 3.0	55.4 55.8	30.6 34.7	1.0	-40.7	-13.0 -13.0	-27.7 -25.3	
13.160	-68.6	H	3.0	57.6	34.0	1.0	-30.5	-13.0	-30.9	
3.760	-34.9	V	3.0	45.1	35.3	1.0	-24.2	-13.0	-11.2	
5.640	-64.0	V	3.0	49.4	35.4	1.0	49.0	-13.0	-36.0	
7.520 9.400	-64.8 -63.3	v v	3.0 3.0	52.0 54.4	35.7 35.6	1.0 1.0	47.5 43.4	-13.0 -13.0	-34.5 -30.4	
11.280	-62.9	v	3.0	56.5	34.7	1.0	40.1	-13.0	-27.1	
13.160	-69.9	V	3.0	58.4	34.0	1.0	-44.5	-13.0	-31.5	
	(1000 9 MU-)									
Hi Ch. (3.820	(1909.8 MHz) -30.1	Н	3.0	45.3	35.3	1.0	-19.1	-13.0	-6.1	
5.729	-63.1	H H	3.0	50.2	35.4	1.0	47.3	-13.0	-34.3	
7.639	-65.8	H	3.0	53.2	35.7	1.0	47.3	-13.0	-34.3	
9.549	-56.4	H	3.0	55.6	35.6	1.0	-35.3	-13.0	-22.3	
11.459 13.369	-61.6 -67.8	H H	3.0 3.0	55.7 57.9	34.6 33.9	1.0 1.0	-39.4 -42.8	-13.0 -13.0	-26.4 -29.8	
3.820	-36.0	v	3.0	45.2	35.3	1.0	-42.0	-13.0	-12.2	
5.729	-62.2	v	3.0	49.5	35.4	1.0	47.1	-13.0	-34.1	
7.639	-65.5	V	3.0	52.1	35.7	1.0	-48.0	-13.0	-35.0	
9.549 11.459	-63.2	v v	3.0 3.0	54.6 56.7	35.6 34.6	1.0	43.2 43.1	-13.0	-30.2 -30.1	
11.459	-66.2	v	3.0	56.7 58.6	34.6 33.9	1.0 1.0	43.1	-13.0 -13.0	-30.1	
		•								
							ļ			
	.03.09									

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WCDMA MODULATION

Company: Project #: Date: Test Engi Configura Mode:	ineer: I ation: I	09J12967 3/1/2010 MENGISTU M	IET CRADLE, A		APTER						
	Chambe	r	Р	re-amplifer			Filter		Li	Limit	
5m	n Chamber A	•	T144	8449B	•	Filter	1	•	FCC PAR	T 24 🗸	
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch. (1	852.4 MHz)							. ,			
3.705	-42.6	Н	3.0	45.0	36.8	1.0	-33.4	-13.0	-20.4		
5.557	-64.1	H	3.0	50.0	36.3	1.0	49.4	-13.0	-36.4		
7.410	-66.6	H	3.0	52.9	36.6	1.0	49.3	-13.0	-36.3		
3.705	-43.6	V	3.0	44.9	36.8	1.0	-34.4	-13.0	-21.4		
5.557 7.410	-62.3 -66.3	V	3.0 3.0	49.3 51.8	36.3 36.6	1.0	-48.3 -50.1	-13.0 -13.0	-35.3 -37.1		
1.410	-00.5	¥	5.0	51.0	30.0	1.0	-30.1	-13.0			
Mid Ch. (18	380.0 MHz)										
3.760	-39.7	Н	3.0	45.2	36.8	1.0	-30.3	-13.0	-17.3		
5.640	-66.5	Н	3.0	50.1	36.3	1.0	-51.7	-13.0	-38.7		
7.520	-66.7	H	3.0	53.1	36.6	1.0	49.3	-13.0	-36.3		
3.760	42.3	<u>v</u>	3.0	45.1	36.8	1.0	-33.1	-13.0	-20.1		
5.640	-66.0	V	3.0	49.4	36.3	1.0	-51.9	-13.0	-38.9		
7.520	-66.9	V	3.0	52.0	36.6	1.0	-50.6	-13.0	-37.6		
Hi Ch. (190	7.6 MHz)						+				
3.815	-38.2	Н	3.0	45.3	36.7	1.0	-28.6	-13.0	-15.6		
	-66.5	H	3.0	50.2	36.3	1.0	-51.5	-13.0	-38.5		
5.723	-67.2	Н	3.0	53.2	36.6	1.0	49.7	-13.0	-36.7		
5.723 7.630		V	3.0	45.2	36.7	1.0	-28.9	-13.0	-15.9		
	-38.4			49.5	36.3	1.0	-50.6	-13.0	-37.6		
7.630		V	3.0	40.0							

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HSPA REL6 (HSDPA & HSUPA)

Company Project # Date: Test Eng Configur	: ineer: ation:	09J12967 4/22/2010 MENGISTU MI EUT, ETHERN	IET CRADLE, A		APTER					
Mode:	Chambe	TX, HSUPA PO		re-amplifer			Filter			Limit
51	n Chamber E	3 🗸	T145	8449B	•	Filter	1	•	FCC P/	ART 24 -
f GHz	SA reading (dBm)	Ant. Pol. (H/∨)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	1852.4 MHz)	(100)	(11)	(40)	(48)	(40)	(abiii)	(abiii)	(40)	
3.705	-58.8	Н	3.0	45.3	35.4	1.0	47.8	-13.0	-34.8	
5.557	-66.5	Н	3.0	50.0	35.4	1.0	-50.9	-13.0	-37.9	
3.705	-55.6	V	3.0	45.1	35.4	1.0	-44.8	-13.0	-31.8	
5.557	-65.3	V	3.0	49.2	35.4	1.0	-50.6	-13.0	-37.6	
Mid Ch. (1	880.0 MHz)									
3.760	-62.8	Н	3.0	45.5	35.3	1.0	-51.6	-13.0	-38.6	
5.640	-67.5	Н	3.0	50.2	35.4	1.0	-51.8	-13.0	-38.8	
3.760	-61.2	V	3.0	45.3	35.3	1.0	-50.2	-13.0	-37.2	
5.640	-66.9	V	3.0	49.3	35.4	1.0	-52.1	-13.0	-39.1	
Hi Ch. (19)7.6 MHz)									
3.815	-53.2	Н	3.0	45.7	35.3	1.0	-41.8	-13.0	-28.8	
5.723	-66.2	H	3.0	50.3	35.4	1.0	-50.4	-13.0	-37.4	
3.815	-50.5	V	3.0	45.4	35.3	1.0	-39.4	-13.0	-26.4	
5.723	-66.1	v	3.0	49.4	35.4	1.0	-51.1	-13.0	-38.1	
							1			

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7.3. RECEIVER SPURIOUS EMISSIONS

<u>LIMIT</u>

RSS-Gen 7.2.2

Spurious Emission Limits for Receivers:

Spurious Frequency (MHz)	Field Strength (microvolts/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

TEST PROCEDURE

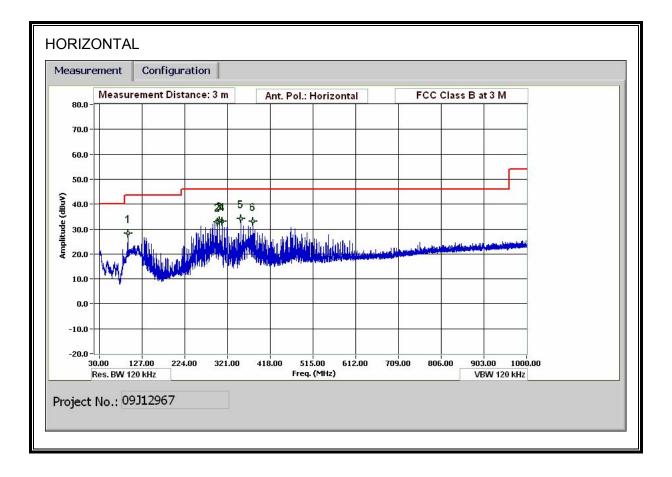
The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (local oscillator frequency, intermediate frequency or carrier frequency),

or 30 MHz, whichever is the higher, to at least 3 times the highest tunable and local oscillator frequencies.

RESULTS

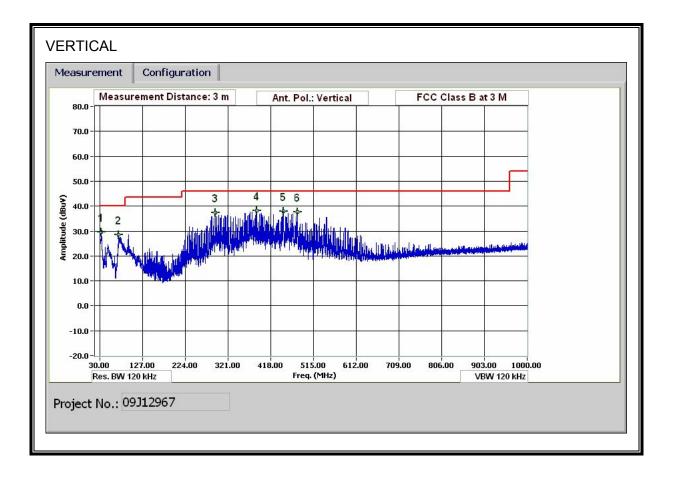
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SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



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SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

Test Engr: Date: Project #: Company: EUT Descri EUT M/N: Test Targe	iption:	a 1al, Eth	ernet C	radle, and	I АС/ДС	2 Adapter									
Mode Ope:		FCC Cla TX Worst													
f		Measurem		Amp	np Preamp Gain Margin Margin vs. Limit										
	Dist	Distance t			D Corr	Corr Distance Correct to 3 meters									
	Read	Analyzer l	Reading		Filter	er Filter Insert Loss									
	AF	Antenna F	-		Corr.	Calculate	d Field St	rength							
	CL	Cable Loss	;		Limit	Field Stre	ngth Lin	nit							
f	Dist	Read	AF	CL	Amp	D Corr	Filter	Corr.	Limit	Margin	Ant. Pol.	Det	Notes		
MHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP			
94.563	3.0	48.2	8.7	0.9	29.5	0.0	0.0	28.2	43.5	-15.3	Н	Р			
297.851	3.0	46.7	13.2	1.6	28.8	0.0	0.0	3 2. 7	46.0	-13.3	H	P			
303.011	3.0	47.3	13.3	1.6	28.8	0.0	0.0	33.4	46.0	-12.6	H	Р			
308.411	3.0	46.8	13.4	1.6	28.8	0.0	0.0	33.0	46.0	- 13.0	H	P			
351.493	3.0	47.2	14.2	1.8	29.1	0.0	0.0	34.0	46.0	-12.0	H	P			
378.254	3.0	45.7	14.6	1.8	29.2	0.0	0.0	33.0	46.0	-13.0	H	Р			
33.000	3.0	39.8	19.0	0.5	29.7	0.0	0.0	29.6	40.0	-10.4	V	Р			
72.962	3.0	49.3	8.1	0.7	29.6	0.0	0.0	28.5	40.0	-11.5	V	P			
292.811	3.0	51.4	13.1	1.6	28.8	0.0	0.0	37.3	46.0	- 8.7	V	Р			
386.895	3.0	50.6	14.8	1.9	29.2	0.0	0.0	38.1	46.0	- 7.9	V	P			
446.057	3.0	49.4	15.8	2.0	29.5	0.0	0.0	37.8	46.0	- 8.2	V	Р			
478.578	3.0	48.7	16.4	2.1	29.6	0.0	0.0	37.6	46.0	- 8.4	V	Р			
	1														

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SPURIOUS EMISSIONS ABOVE 1000 MHz (WORST-CASE CONFIGURATION)

ompany: roject #: ate: est Engine onfiguratio: Iode: <u>est Equipm</u>	n:	09J12967 2/25/2010 MENGISTU M EUT, ETHEF RX MODE		dle, and ac .								
est Engine onfiguratio: lode:	n:	MENGISTU N EUT, ETHEF		dle, and ac .								
lode:			'NET CRAI	dle, and ac .								
est Equipm	ent:				ADAPTER							
Horn	1-18GHz	Pre-a	nplifer 1	-26GHz	Pre-amp	lifer 26-40GH	z	Ho	rn > 18G	Hz		Limit
T59; S/N: 3	245 @3m	▼ T145 /	Agilent 30	08A005(🖵			-				•	FCC 15.209
Hi Frequency	Cables	12' 0	able 22	807600	20' cab	le 22807500		HPF	Re	ject Filte		<u>k Measurements</u>
3' cable	22807700		nble 22807	7600 💂	20' cable	22807500			•		RE Aver	3W=VBW=1MHz age Measurements =1MHz ; VBW=10Hz
f Di	st Read Pk	Read Avg.	AF	CL Amp	D Corr	Fltr Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	
GHz (n	ı) dBuV	dBuV	dB/m	dB dB	dB	dB dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)
835 3J 835 3J		52.2 54.6		3.3 -35.5 3.3 -35.5	0.0 0.0	0.0 49.1 0.0 51.0	47.0 49.4	74 74	54 54	-24.9 -23.0	-7.0 -4.6	V H
ev. 07.22.09												
f	Measurem	ient Frequenc	y	Amp	Preamp G	ain			Avg Lim	Average I	ield Streng	th Limit
Dist						Correct to 3 mete					l Strength I	
Kea AF	id Analyzer I Antenna F	0		Avg Peak		ield Strength @ I Peak Field Stre			Avg Mar Pk Mar	<u> </u>	. Average I . Peak Limi	
CL	Cable Los	s		HPF	High Pass	Filter						

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7.4. POWER LINE CONDUCTED EMISSION

LIMIT

RSS-Gen 7.2.2

Except when the requirements applicable to a given device state otherwise, for any licenceexempt radio communication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 2. The tighter limit applies at the frequency range boundaries.

Table 2 – AC Power Lines Conducted Emission Limits

Frequency of Emission (MHz)	Conducted I	Limit (dBuV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

RESULTS

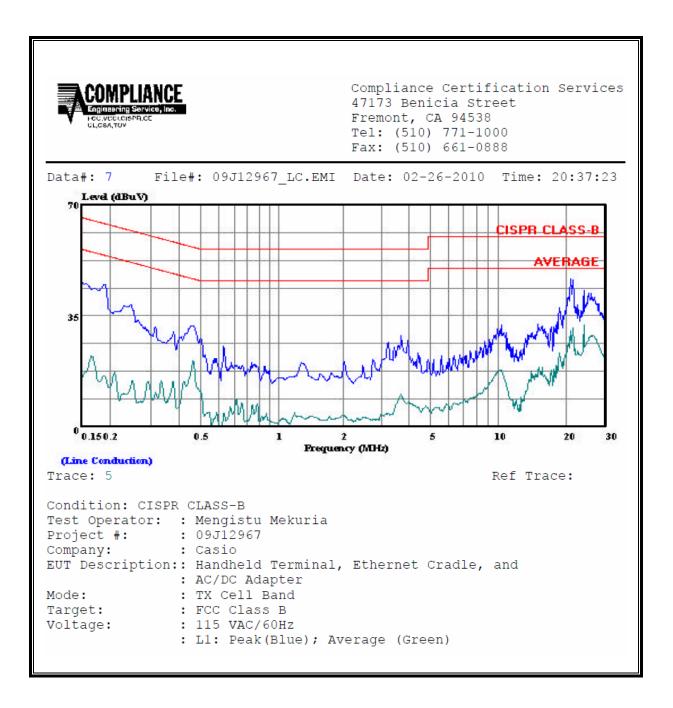
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<u>6 WORST EMISSIONS</u>

		CONDUC	TED EMISS	IONS D.	ATA (115	VAC 60H	z)		
Freq.		Reading		Closs	Limit	EN_B	Marg	;in	Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV(dB)	L1/L2
0.18	45.00		22.28	0.00	64.44	54.44	-19.44	-32.16	L1
0.46	31.83		20.79	0.00	56.67	46.67	-24.84	-25.88	L1
21.15	46.53		31.30	0.00	60.00	50.00	-13.47	-18.70	L1
0.17	44.13		23.69	0.00	65.01	55.01	-20.88	-31.32	L2
0.46	40.17		28.39	0.00	56.67	46.67	-16.50	-18.28	L2
21.04	47.84		32.10	0.00	60.00	50.00	-12.16	-17.90	L2
6 Worst I	Data								

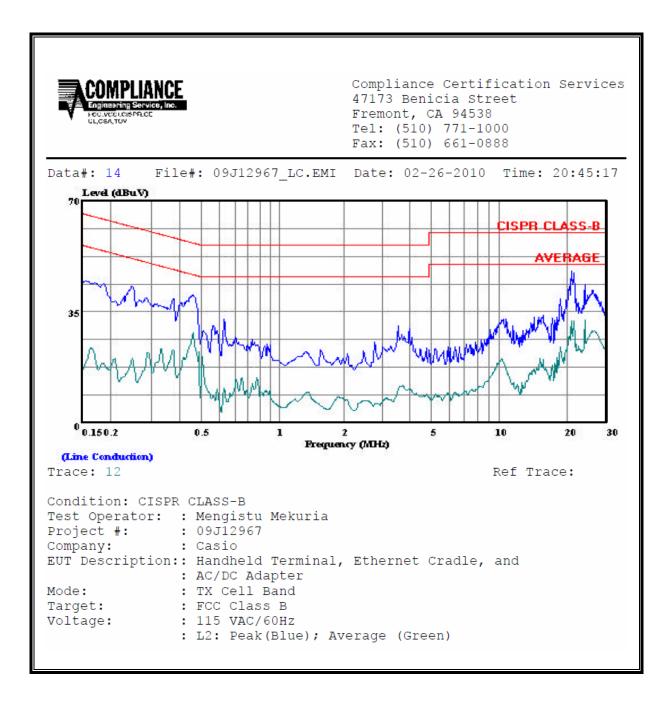
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LINE 1 RESULTS



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LINE 2 RESULTS



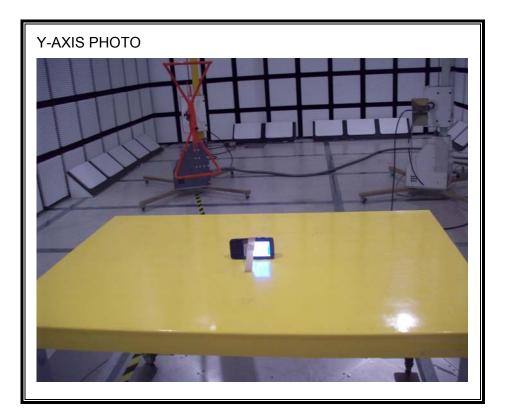
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8. SETUP PHOTOS

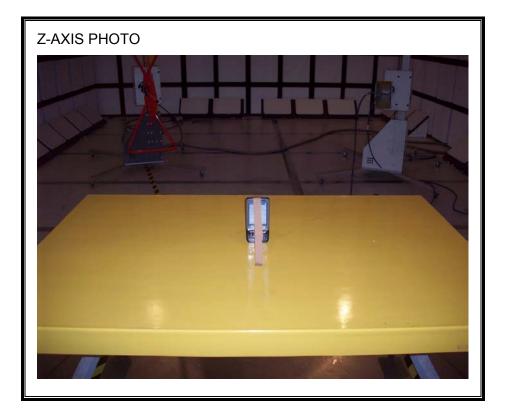
RADIATED RF MEASUREMENT SETUP FOR PORTABLE CONFIGURATION



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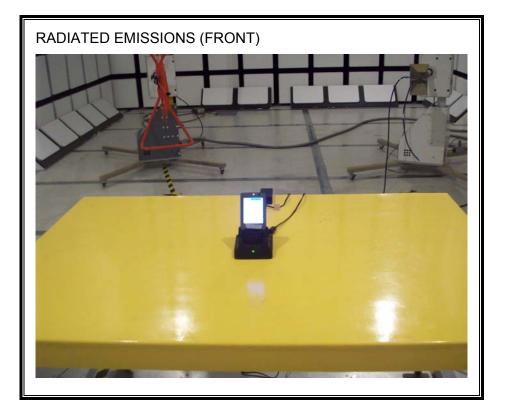


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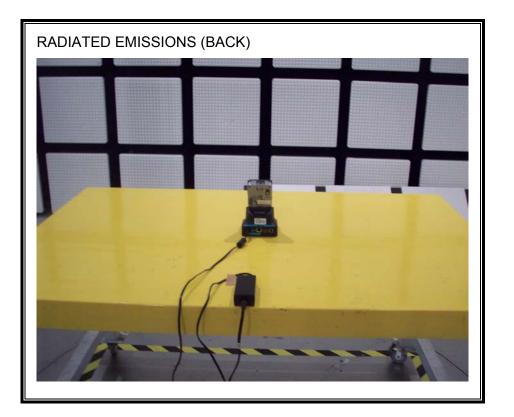


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RADIATED EMISSION



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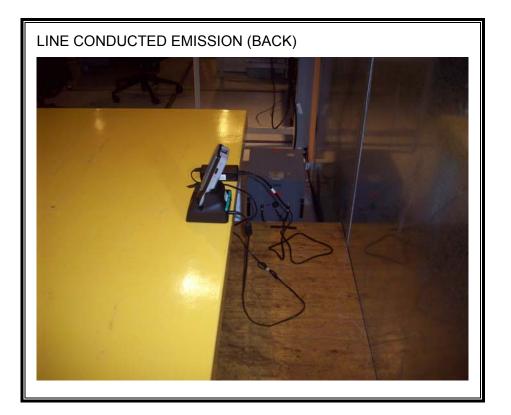


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AC MAINS LINE CONDUCTED EMISSION



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END OF REPORT

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