

## FCC CFR47 PART 22 SUBPART H AND PART 24 SUBPART E CLASS II PERMISSIVE CHANGE CERTIFICATION TEST REPORT

### FOR

### CDMA 800/1900 CELL-PCS MODULE

### MODELS: PA3490U-1EVD

### FCC ID: CJ6UPA3490G3

### REPORT NUMBER: 06U10443-1

### **ISSUE DATE: AUGUST 11, 2006**

Prepared for TOSHIBA CORPORATION DIGITAL MEDIA NETWORK COMPANY OME COMPLEX, 2-9, SUEHIRO-CHO TOKYO, 198-8710, JAPAN

> Prepared by COMPLIANCE CERTIFICATION SERVICES 561F MONTEREY ROAD MORGAN HILL, CA 95037, USA TEL: (408) 463-0885 FAX: (408) 463-0888



Revision History

Rev.	Date	Revisions	Revised By
	8/11/2006	Initial Release	A. Ilarina

Page 2 of 28

# TABLE OF CONTENTS

1.	AT	TESTATION OF TEST RESULTS	4
2.	ТЕ	ST METHODOLOGY	5
3.	FA	CILITIES AND ACCREDITATION	5
4.	CA	LIBRATION AND UNCERTAINTY	5
4	<sup>t</sup> .].	MEASURING INSTRUMENT CALIBRATION	. 5
4	<i>t.2</i> .	MEASUREMENT UNCERTAINTY	. 5
5.	EQ	UIPMENT UNDER TEST	6
5	5.1.	DESCRIPTION OF EUT	6
5	5.2.	CLASS II PERMISSIVE CHANGE DESCRIPTION	6
5	5.3.	MAXIMUM OUTPUT POWER	6
5	5. <i>4</i> .	DESCRIPTION OF AVAILABLE ANTENNAS	7
5	5.5.	SOFTWARE AND FIRMWARE	. 7
5	5.6.	WORST-CASE CONFIGURATION AND MODE	. 7
5	5.7.	DESCRIPTION OF TEST SETUP	8
6.	ТЕ	ST AND MEASUREMENT EQUIPMENT	10
7.	LIN	MITS AND RESULTS	11
7	7.1.	RF POWER OUTPUT	11
7	7.2.	FIELD STRENGTH OF SPURIOUS RADIATION	16
8.	SE	ТИР РНОТОЅ	21

Page 3 of 28

### **1. ATTESTATION OF TEST RESULTS**

COMPANY NAME:	TOSHIBA CORPORATION		
	DIGITAL MEDIA NETWORK COMPANY		
	2-9 SUEHIRO-CHO, OME		
	TOKYO, 198-8710, JAPAN		
EUT DESCRIPTION:	CDMA 800/1900 CELL-PCS MODULE		
MODEL NUMBER:	PA3490U-1EVD		
SERIAL NUMBER:	G86C0002A410		
DATE TESTED:	JULY 13-18, 2006		
	APPLICABLE STANDARDS		
STANDAR	D TEST RESULTS		
FCC PART 22 SUB	PART H NO NON-COMPLIANCE NOTED		
FCC PART 24 SUB	PART E NO NON-COMPLIANCE NOTED		

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. 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:

Tested By:

Stamine

ALVIN ILARINA EMC SUPERVISOR COMPLIANCE CERTIFICATION SERVICES

Chin Pany

CHIN PANG EMC ENGINEER COMPLIANCE CERTIFICATION SERVICES

Page 4 of 28

# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603C (2004), ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 22H and 24E.

# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

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

# 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a dual band 800 / 1900MHz Mini-PCI Express Card CDMA Modem Module.

### 5.2. CLASS II PERMISSIVE CHANGE DESCRIPTION

- Change #1 The subject approved module is being used in a different host.
- Change #2 Collocation with CDMA CELL-PCS module.
- Change #3 Collocation with Bluetooth Module.

### 5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Modulation	Conducted Average Power (dBm)	Conducted Average Power (mW)	Conducted Peak Power (dBm)	Conducted Peak Power (mW)
Low CH - 824.7		24.5	281.84	28.35	683.91
Mid CH - 836.5	1 x EVDO	24.58	287.08	28.4	691.83
High CH - 848.3		23.70	234.42	27.58	572.80

#### 824 to 849 MHz Authorized Band

1850 to 1910 MHz Authorized Band

Frequency Range	Modulation	Conducted	Conducted	Conducted	Conducted
		Average Power	Average Power	Peak Power	Peak Power
(MHz)		(dBm)	(mW)	(dBm)	(mW)
Low CH - 1851.25		23.85	242.66	28.02	633.87
Mid CH - 1880	1 x EVDO	24.16	260.62	28.52	711.21
High CH - 1908.75		23.7	234.42	27.61	576.77

NOTE: RBW=VBW=3MHz.

Page 6 of 28

### 5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The EUT is used monopole antenna model TMZ001 manufactured by Tyco Electronics with a peak gain of 0.8 dBi in the cellular band and 1.6 dBi in the PCS band.

### 5.5. SOFTWARE AND FIRMWARE

The EUT is linked with Agilent Communication Test Set.

### 5.6. WORST-CASE CONFIGURATION AND MODE

Pre-scan was performed on RF conducted port to determine the worst-case scenario:

	Avg. Output Power (dBm)	99% BW (MHz)	26 dB BW (MHz)	Band edg	ge (dBm)
Cellular Band	Mid CH	Mid CH	Mid CH	Low CH	High CH
1xRRT RC3, SO2	24.55	1.2762	1405	-17.489	-13.78
1xRRT RC3, SO32 (+F-SCH)	24.46	1.2871	1.404	-16.921	-13.751
1xRRT RC3, SO32 (+SCH)	24.50	1.2727	1.4	-17.202	-14.31
1xRRT RC3, SO55	24.50	1.2645	1.39	-16.732	-13.635
EVDO	24.58	1.2602	1.38	-15.382	-13.321

Avg. Output Power (dBm)		99% BW (MHz)	26 dB BW (MHz)	Band edg	ge (dBm)
PCS Band	Mid CH	Mid CH	Mid CH	Low CH	High CH
1xRRT RC3, SO2	24.10	1.252	1.389	-35.936	-34.935
1xRRT RC3, SO32 (+F-SCH)	23.90	1.273	1.401	-35.598	-34.706
1xRRT RC3, SO32 (+SCH)	23.97	1.265	1.408	-35.988	-35.85
1xRRT RC3, SO55	23.97	1.264	1.392	-36.055	-35.159
EVDO	24.16	1.250	1.381	-35.283	-31.303

Based on the above results from the different modulations, EVDO is determined to be the worst-case scenario for fundamental ERP /EIRP measurement and radiated spurious emissions tests.

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at mid channel for both bands.

## 5.7. DESCRIPTION OF TEST SETUP

#### SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	FCC ID	
Laptop	Toshiba	Satellite	NA	DoC	
AC Adapter	Toshiba	PA3283U-3ACA	G71C00043310	DoC	

#### I/O CABLES

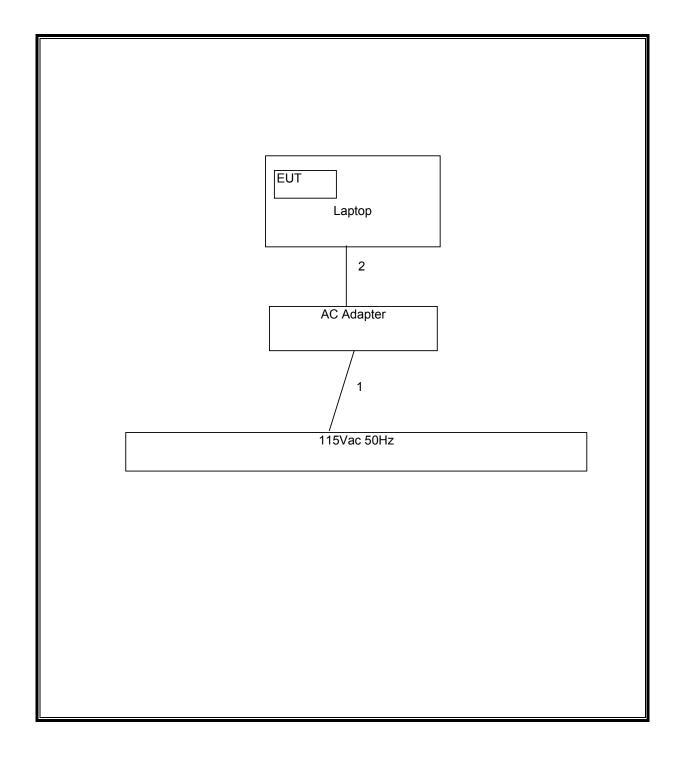
	I/O CABLE LIST					
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	NA
2	DC	1	DC	Un-shielded	2m	NA

#### TEST SETUP

The EUT is installed inside the Laptop during tests. The EUT is linked with Agilent Communication Test Set.

Page 8 of 28

#### SETUP DIAGRAM FOR TESTS



Page 9 of 28

# 6. TEST AND MEASUREMENT EQUIPMENT

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

	TEST E	QUIPMENT LIST		
Description	Manufacturer	Model	Serial Number	Cal Due
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	5/22/1918	4/22/2007
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00561	10/3/07
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	4/22/07
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent / HP	E4446A	MY45300064	12/19/06
EMI Test Receiver	R & S	ESHS 20	827129/006	9/3/06
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	8/30/06
Preamplifier, 26 ~ 40 GHz	Miteq	NSP4000-SP2	924343	8/18/06
Wireless CommunicationTest Set	Agilent	8960 Series 10	E6515C	6/28/07
Peak / Average Power Sensor	Agilent	E9327A	US40440755	12/2/07
Peak Power Meter	Agilent / HP	E4416A	GB41291160	12/2/07
Dipole	EMCO	3121C-DB2	22435	5/7/06
Power Splitter	HP	11667B	324	CNR

Page 10 of 28

# 7. LIMITS AND RESULTS

### 7.1. **RF POWER OUTPUT**

### <u>LIMIT</u>

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts. 24.232(b) 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.

#### TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17

#### **RESULTS**

No non-compliance noted.

Page 11 of 28

#### MOBILE CONFIGURATION Cellular Output Power (ERP)

07/15/06	High Frequency Substitution Measurement
Compliance	e Certification Services, Morgan Hill 5m Chamber Site

Test Engr: Chin Pang Project #: 06U10441 Company: Toshiba Test Target: EVDO Cell Mobile Config Mode Oper: TX, Fundamental

<u>Test Equipment:</u> Receiving: Sunol T122, and 5m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, and 4ft SMA Cable Warehouse S/N: 177081002

f	SA reading		SG reading	CL	Gain	ERP	Limit	Margin	Notes
MHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Mobile Cofig									
Low Ch									
824.20	98.3	V	21.4	0.5	0.0	20.9	38.5	-17.6	
824.20	100.0	H	21.7	0.5	0.0	21.2	38.5	-17.3	
Mid Ch									
836.50	97.8	V	21.8	0.6	0.0	21.2	38.5	-17.2	
836.50	99.9	H	21.7	0.6	0.0	21.1	38.5	-17.3	
High Ch									
848.80	96.4	V	21.0	0.7	0.0	20.3	38.5	-18.1	
848.80	99.4	H	21.3	0.7	0.0	20.6	38.5	-17.8	

NOTE: EUT tested at worst antenna position with 0dBi reference dipole antenna, RBW=VBW=3MHz

Page 12 of 28

#### PORTABLE CONFIGURATION Cellular Output Power (ERP)

07/15/06 High Frequency Substitution Measurement Compliance Certification Services, Morgan Hill 5m Chamber Site

Test Engr: Chin Pang Project #: 06U10441 Company: Toshiba EUT Descrip.: CDMA EUT M/N: Test Target: EVDO, Cell Mode Oper: TX, Fundamental, Portable Config

#### Test Equipment:

Receiving: Sunol T122, and 5m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, and 4ft SMA Cable Warehouse S/N: 177081002

f	SA reading	Ant. Pol.	SG reading	CL	Gain	ERP	Limit	Margin	Notes
MHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Y Position (	Worst Case )								
Low Ch								Ì	
824.20	97.1	V	20.2	0.5	0.0	19.7	38.5	-18.8	
824.20	101.3	H	23.0	0.5	0.0	22.5	38.5	-16.0	
Mid Ch								•	
836.50	96.8	V	20.8	0.6	0.0	20.2	38.5	-18.2	
836.50	102.7	H	24.5	0.6	0.0	23.9	38.5	-14.5	
High Ch	••••••								
848.80	96.9	V	21.5	0.7	0.0	20.8	38.5	-17.6	
848.80	101.7	H	23.6	0.7	0.0	22.9	38.5	-15.5	
								ļ	
					Į		[	I	

Page 13 of 28

#### MOBILE CONFIGURATION PCS Output Power (EIRP)

#### 07/15/06 High Frequency Fundamental Measurement Compliance Certification Services, Morgan Hill 5m Chamber Site

Test Engr: Chin Pang Project #: 06U10441 Company: Toshiba Test Target: EVDO,1900MHz, Mobile Config Mode Oper: TX, Fundamental

<u>Test Equipment:</u> Receiving: Horn T73, and 12ft S/N: 197209005 (Setup this one for testing EUT) Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse S/N: 177081002

f	SA reading	Ant. Pol.	SG reading	CL	Gain	EIRP	Limit	Margin	Notes
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
mobile cor	nfig							••	
Low Ch									
1.851	93.8	H	16.8	0.9	8.4	24.3	33.0	- <b>8.</b> 7	
1.851	96.5	V	19.9	0.9	8.4	27.4	33.0	-5.6	
Mid Ch									
1.880	93.8	H	16.6	0.9	8.3	24.0	33.0	-9.0	
1.880	95.8	V	18.4	0.9	8.3	25.8	33.0	-7.2	
High Ch									
1.910	94.4	H	17.4	0.9	8.4	24.9	33.0	- <b>8.1</b>	
1.910	95.4	V	18.8	0.9	8.4	26.3	33.0	- <b>6.</b> 7	

Page 14 of 28

#### PORTABLE CONFIGURATION PCS Output Power (EIRP)

### 07/15/06 High Frequency Fundamental Measurement

Compliance Certification Services, Morgan Hill 5m Chamber Site

Test Engr: Chin Pang Project #: 06U10441 Company: Toshiba Test Target: EVDO, 1900MHz, Portable Config Mode Oper: TX, Fundamental

<u>Test Equipment:</u> Receiving: Horn T73, and 12ft S/N: 197209005 (Setup this one for testing EUT) Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse S/N: 177081002

f	SA reading	Ant. Pol.	SG reading	CL	Gain	EIRP	Limit	Margin	Notes
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Portable (	Cofig								
Low Ch									
1.851	92.6	H	15.6	0.9	8.4	23.1	33.0	-9.9	
1.851	97.0	V	20.4	0.9	8.4	27.9	33.0	-5.1	
Mid Ch									
1.880	90.0	H	13.1	0.9	8.3	20.6	33.0	-12.5	
1.880	96.1	V	18.4	0.9	8.3	25.9	33.0	-7.2	
High Ch									
1.910	91.1	H	14.1	0.9	8.4	21.6	33.0	-11.4	
1.910	95.8	V	19.2	0.9	8.4	26.7	33.0	-6.3	
								ļļ	

Page 15 of 28

### 7.2. FIELD STRENGTH OF SPURIOUS RADIATION

### LIMIT

22.917 (e) and 24.238 (a) 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 603C Clause 2.2.12, FCC 22.917 (h), & FCC 24.238 (b)

The EUT was investigated in the mobile condition and portable condition in the X, Y, and Z orientations.

#### **RESULTS**

No non-compliance noted.

Note: No emissions were found within 30-1000MHz of 20dB below the system noise.

Page 16 of 28

#### MOBILE CONFIGURATION 800MHz Band CDMA Spurious & Harmonic (ERP)

lode O	y:Tohiba get:FCC Part per: EVDO T:		obile Configura	tion						
est Equ	iipment:									
	EMCO Horn 1-	18GHz		Horn >	18GHz			Limit		High Pass Filter
Т	73; S/N: 6717 @	3m →				-	FCC	22	-	r mgn rass rmer
۲. ۲	Frequency Cables					Pre-amplifer 1	-26GHz		Pre-amplifer 2	e-40GHz
Г	(2 ft)	(2 ~ 3 ft)	(4 ~ 6 ft) 🔽 (12	tt)	_	T145 Agilent		Г		-
	1 1		1 1		L			1		
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
ow Ch				~ ~ ~						
.649 .474	52.0 62.6	<u>v</u> v	-58.6 -45.8	1.6	8.1 9.6	5.9 7.4	-54.3 -40.3	-13.0 -13.0	-41.3 -27.3	
.474 .298	02.0 45.5	v	-45.8 -59.7	2.3	9.0 9.5	7.4 7.4	-40.3	-13.0	-27.3	
649	49.6	H	-60.3	1.6	8.1	5.9	-56.0	-13.0	-43.0	
474	65.0	H	-43.2	1.9	9.6	7.4	-37.7	-13.0	-24.7	
298	43.0	H	-62.1	2.3	9.5	7.4	-57.0	-13.0	-44.0	
id Ch	-								ļ	
673	50.7	V	-59.9	1.6	8.1	6.0	-55.5	-13.0	-42.5	
510	61.9	V	-46.3	1.9	9.6	7.4	-40.9	-13.0	-27.9	
346	43.5	V	-61.5	2.3	9.5	7.4	-56.4	-13.0	-43.4	
673	48.0	H	-61.9	1.6	8.1	6.0	-57.5	-13.0	-44.5	
346 183	64.0 44.8	H H	-40.9 -57.0	2.3	9.5 9.6	7.4 7.5	-35.8 -52.1	-13.0 -13.0	-22.8 -39.1	
	-10	41						-1010		
igh Ch										
697	50.0	V	-60.5	1.6	8.2	6.0	-56.1	-13.0	-43.1	
545 393	62.0 44.5	V	-46.1 -60.3	2.0	9.6 9.5	7.4 7.4	-40.6 -55.2	-13.0 -13.0	-27.6 -42.2	
393 697	44.5 50.0	V H	-60.3 -59.8	2.3	9.5 8.2	7.4 6.0	-55.4	-13.0	-42.2 -42.4	
	67.1	H	-40.8	2.0	9.6	7.4	-35.3	-13.0	-42.4	
545	45.0	H	-59.7	2.3	9.5	7.4	-54.6	-13.0	-41.6	
545 393				-					ļ	
393	ļ	1	a				1			
393	ther emissions w	ere detected ab	ove the system nois	e floor.						

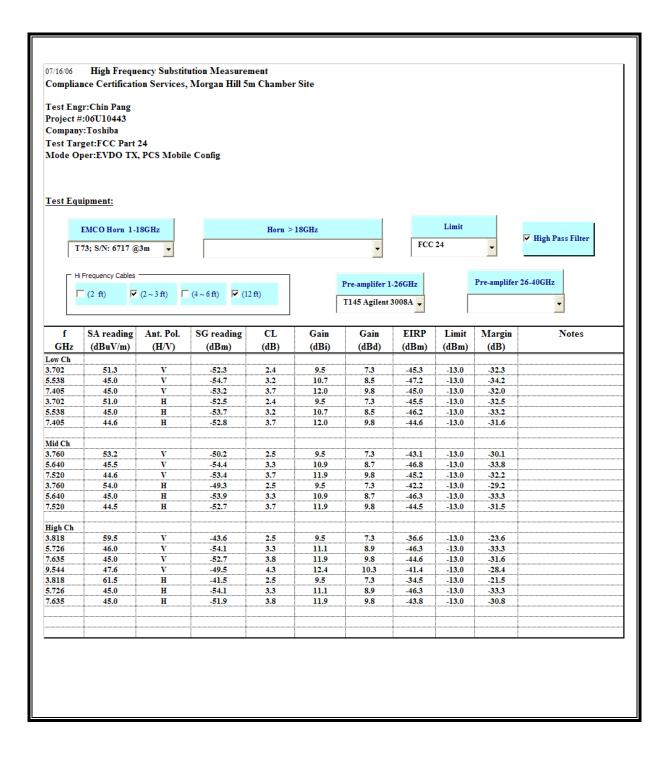
Page 17 of 28

#### PORTABLE CONFIGURATION 800MHz Band CDMA Spurious & Harmonic (ERP)

	Compliance Certification Services, Morgan Hill 5m Chamber Site													
Project # Company Test Tar	est Engr:Chin Pang roject #:06U10443 company:Tohiba est Target:FCC Part 22 Iode Oper: EVDO TX, CELL, Portable Configuration ( Worst Case )													
<u>Test Equ</u>	est Equipment:													
	EMCO Horn 1-	1001-		Hame	• 18GHz			Limit						
	73; S/N: 6717 @			HUIN >	· 100ff2	•	FCC		•	🔽 High Pass Filter				
-	, o, in o, i, e	<b>J</b>							_					
	Frequency Cables					Pre-amplifer 1	l-26GHz		Pre-amplifer	26-40GHz				
	(2 ft)	(2~3ft)	(4 ~ 6 ft) ▼ (12	2 ft)	ſ	T145 Agilent	3008A 🗸			•				
f	SA reading	Ant. Pol.	SG reading	CL	Gain	Gain	ERP	Limit	Margin	Notes				
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBd)	(dBm)	(dBm)	(dB)					
Low Ch														
1.649	47.7	V	-62.9	1.6	8.1	5.9	-58.6	-13.0	-45.6					
2.474	59.0	v v	-49.4	1.9	9.6	7.4	-43.9	-13.0	-30.9					
3.298 1.649	45.0 50.0	N H	-60.2 -59.9	2.3	9.5 8.1	7.4 5.9	-55.1 -55.6	-13.0 -13.0	-42.1 -42.6					
2.474	56.0	H	-59.9	1.0	9.6	5.9 7.4	-35.0	-13.0	-42.0					
3.298	44.6	H	-60.5	2.3	9.5	7.4	-40.7	-13.0	-33.7					
3.270			-00.5	<b>2.</b> 0	2.0		-00.4	-10.0						
Mid Ch														
1.673	48.0	V	-62.6	1.6	8.1	6.0	-58.2	-13.0	-45.2					
2.510	57.3	V	-50.9	1.9	9.6	7.4	-45.5	-13.0	-32.5					
3.346	44.7	V	-60.3	2.3	9.5	7.4	-55.2	-13.0	-42.2					
1.673	55.1	H	-54.8	1.6	8.1	6.0	-50.4	-13.0	-37.4					
2.510	60.0	H	-48.0	1.9	9.6	7.4	-42.6	-13.0	-29.6					
3.346	45.0	H	-59.9	2.3	9.5	7.4	-54.8	-13.0	-41.8					
TT: 1 (2)														
High Ch 1.697	49.6	v	61.0	14		60	57 E	12.0	44.5					
2.545	48.6 55.0	V	-61.9 -53.1	1.6	8.2 9.6	6.0 7.4	-57.5 -47.6	-13.0 -13.0	-44.5 -34.6					
3.393	44.5	V	-60.3	2.0	9.5	7.4	-47.0	-13.0	-34.0					
1.697	49.2	, H	-60.6	1.6	8.2	6.0	-56.2	-13.0	-43.2					
2.545	58.0	H	-49.9	2.0	9.6	7.4	-44.4	-13.0	-31.4					
3.393	44.0	H	-60.7	2.3	9.5	7.4	-55.6	-13.0	-42.6					
0.070														
Note: No of	ther emissions w	ere detected ab	ove the system nois	e floor.			•		••••••					
	1		Ì											

Page 18 of 28

#### MOBILE CONFIGURATION PCS Spurious & Harmonic (EIRP):



Page 19 of 28

#### PORTABLE CONFIGURATION PCS Spurious & Harmonic (EIRP):

07/16/06 Complian	07/16/06 High Frequency Substitution Measurement Compliance Certification Services, Morgan Hill 5m Chamber Site										
Project # Company Test Tar Mode Oj	-		le Config ( Wor	rst Position	1)						
<u>Test Equ</u>	upment:										
	EMCO Horn 1-			Horn >	18GHz		FCC	Limit		🔽 High Pass Filter	
	73; S/N: 6717 @	3m -				•	lice		•		
	Frequency Cables	(2 ~ 3 ft)	(4 ~ 6 ft) ▼ (12	2 ft)	ſ	Pre-amplifer 1			Pre-amplifer 2	26-40GHz	
						T145 Agilent	3008A -			•	
f	SA reading	Ant. Pol.	SG reading	CL	Gain	Gain	EIRP	Limit	Margin	Notes	
GHz	(dBuV/m)	(H/V)	(dBm)	(dB)	(dBi)	(dBd)	(dBm)	(dBm)	(dB)		
Low Ch											
3.702	54.6	V	-49.0	2.4	9.5	7.3	-42.0	-13.0	-29.0		
5.538	45.2	v v	-54.5	3.2	10.7	8.5	-47.0	-13.0	-34.0		
7.405 3.702	44.0 53.8	N H	-54.2 -49.7	3.7 2.4	12.0 9.5	9.8 7.3	-46.0 -42.7	-13.0 -13.0	-33.0 -29.7		
5.538	44.5	H	-54.2	3.2	10.7	8.5	-46.7	-13.0	-33.7		
7.405	43.6	H	-53.8	3.7	12.0	9.8	-45.6	-13.0	-32.6		
Mid Ch											
3.760	53.0	V	-50.4	2.5	9.5	7.3	-43.3	-13.0	-30.3		
5.640	45.0	v	-54.9	3.3	10.9	8.7	-47.3	-13.0	-34.3		
7.520	44.6	V	-53.4	3.7	11.9	9.8	-45.2	-13.0	-32.2		
3.760	51.7	H	-51.6	2.5	9.5	7.3	-44.5	-13.0	-31.5		
5.640	45.4	H	-53.5	3.3	10.9	8.7	-45.9	-13.0	-32.9		
7.520	43.8	H	-53.4	3.7	11.9	9.8	-45.2	-13.0	-32.2		
High Ch											
3.818	62.5	V	-40.6	2.5	9.5	7.3	-33.6	-13.0	-20.6		
5.726	45.3	V	-54.8	3.3	11.1	8.9	-47.0	-13.0	-34.0		
7.635	44.3	V	-53.4	3.8	11.9	9.8	-45.3	-13.0	-32.3		
3.818	60.5	H	-42.5	2.5	9.5	7.3	-35.5	-13.0	-22.5		
5.726 7.635	45.7 44.3	H	-53.4 -52.6	3.3	11.1 11.9	8.9 9.8	-45.6 -44.5	-13.0 -13.0	-32.6		
1.035	44.3	п	-34.0	3.0	11.9	7.0	-44.3	-13.0	-31.5		
Note: No of	ther emissions w	ere detected abo	ove the system nois	se floor.							

Page 20 of 28