

Report No.: EI/2009/40009 Issue Date: May 11, 2009

Page: 1 of 21

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

# UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B CLASS II CHANGE CERTIFICATION REQUIREMENT

OF

Product Name: CDMA TSX01

Brand Name: N/A

Marketing Name: Dots Obsession, Full Happiness With Dots

Model: Dot

**Model Difference:** N/A

**Report No.:** EI/2009/40009

**Issue Date:** May 11, 2009

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Toshiba Corporation, Mobile Communications

Co., Quality Management Division

1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo,

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Prepared by: SGS Taiwan Ltd.

**Electronics & Communication Laboratory** 

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan



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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 2 of 21

# VERIFICATION OF COMPLIANCE

Applicant / Toshiba Corporation, Mobile Communications Co., Quality

**Manufacturer:** Management Division

1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555, Japan

**Product Name:** CDMA TSX01 FCC ID: WVS-CN10-J01

**Brand Name:** N/A

**Marketing Name:** Dots Obsession, Full Happiness With Dots

**Model:** Dot **Model Difference:** N/A

File Number: EI/2009/40009

Date of test: Dec. 11, 2008 ~ May 08, 2008

**Date of EUT Receive:** Dec. 11, 2008

# We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B, Class B. The test results of this report relate only to the tested sample identified in this report.

Test By:	Nick Li	h Date:	May 11, 2009	
Prepared By:	Nick Lin / Engineer	Date:	May 11, 2009	
Approved By:	Eva Kao / Asst. Supervis  Vincent Su/Manager	) // Date:	May 11, 2009	

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 3 of 21

# Version

Version No.	Date	Description
00	May 11, 2009	Initial creation of document

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 4 of 21

# **Table of Contents**

1.	GENERAL INFORMATION	5
1.1	General	5
1.2	RELATED SUBMITTAL(S) / GRANT (S)	7
1.3	TEST METHODOLOGY	7
1.4	TEST FACILITY	7
1.5	SPECIAL ACCESSORIES	7
1.6	EQUIPMENT MODIFICATIONS	7
2.	SYSTEM TEST CONFIGURATION	8
2.1	EUT CONFIGURATION	8
2.2	EUT Exercise	8
2.3	TEST PROCEDURE	8
2.4	LIMITATION	9
2.5	CONFIGURATION OF TESTED SYSTEM	10
3.	SUMMARY OF TEST RESULTS	11
4.	DESCRIPTION OF TEST MODES	11
5.	CONDUCTED EMISSIONS TEST	12
5.1	Measurement Procedure:	12
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
5.3	MEASUREMENT EQUIPMENT USED:	13
5.4	MEASUREMENT RESULT	13
6.	RADIATED EMISSION TEST	16
6.1	MEASUREMENT PROCEDURE	16
6.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	16
6.3	MEASUREMENT EQUIPMENT USED:	17
6.4	FIELD STRENGTH CALCULATION	17
6.5	MEASUREMENT RESULT	18

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 5 of 21

# **GENERAL INFORMATION**

# 1.1 General:

Type Name:	CDMA TSX01			
Brand Name:	N/A			
Marketing Name:	Dots Obsession, Full Happiness With Dots			
Model:	Dot			
Model Difference:	N/A			
Data Cable (USB)	N/A			
Simple Hands-free (SHF)	) N/A			
Dower Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter			
Power Supply:	Battery Model:	61TSUAA, Brand: KDDI		

## **CDMA 2000:**

CDMA 2000.							
DUT Standards	CDMA2000	Frequency Range			Maximum Output Power		
and Power:	D.CO	TX:	X: 824.70-848.31 MHz		24.09 dBm		
and Fower.	BC0	RX:	869.70-893.37 M	IHz	22	+.U9 UDIII	
Final Amplifier Voltage and Current Information				DC voltag	ge (V) DC current (mA		
		CDMA 2000 Cellular		3.7Vdc		920	
Type of Emission		1M25F9W					
MEID		A1000006E707D5					
Software Version		N/A					
Hardware Version		CS sample					
Antenna Type		PIFA					

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 6 of 21

## **Bluetooth:**

Bluetooth Version	<ul> <li>V1.1 (GFSK)</li> <li>V1.2 (GFSK)</li> <li>V2.0 (GFSK)</li> <li>V2.0 + EDR (GFSK + π/4DQPSK + 8DPSK)</li> <li>V2.1 + EDR (GFSK + π/4DQPSK + 8DPSK)</li> </ul>
Frequency Range	2402 – 2480MHz
Channel number	79 channels max., 1MHz step
Rated Power	0.41 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	Metal Antenna / 2.1dBi.
Type of Emission	1M28FXD

The EUT is compliance with Bluetooth 2.0 with EDR.

This test report applies for CDMA 2000 and BT function.



Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 7 of 21

# 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: WVS-CN10-J01 filing to comply with Part15 Subpart B, class B of the FCC CFR 47 Rules.

# 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

# 1.5 Special Accessories

Not available for this EUT intended for grant.

## 1.6 Equipment Modifications

Not available for this EUT intended for grant.

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 8 of 21

# **System Test Configuration**

# 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 EUT Exercise

The Toshiba CDMA cellular phone FCC ID: WVS-CN10-J01 was tested with CMU200.

### 2.3 Test Procedure

### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

## 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.4-2003.

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 9 of 21

## 2.4 Limitation

#### **(1) Conducted Emission**

According to section 15.107(a), Conducted Emission Class B Limits is as following.

Frequency range	Class B Limits dB (uV)				
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

## Note

# (2) Radiated Emission

According to section 15.109(a), Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu V/m$	Distance (m)	Field strength at 3m $dB\mu V/m$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

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<sup>1.</sup> The lower limit shall apply at the transition frequencies

<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 10 of 21

# 2.5 Configuration of Tested System

Fig. 2-2 Configuration of Tested System



Fig. 2-4 Configuration of Tested System (Remote Side)

(Remote Side) **CMU200** 

**Table 2-1 Equipment Used in Tested System** 

	1.1						
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord	
1.	EUT	N/A	T001	N/A	90cm, shielded	N/A	
2.	Battery	KDDI	61TSUAA	N/A	N/A	N/A	

**Table 2-2 Support Equipment Used in Tested System** 

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	Un-shielded
2.	Adapter	MITSUMI	0203PQA			

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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 11 of 21

# 3. Summary of Test Results

FCC Rules	FCC Rules Description Of Test	
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

# 4. Description of test modes

The EUT was stayed in normal operation mode with CMU200.

Test Plan:

1. Charge Mode

Mid channel of cellular band was worst case for both Conducted Emission and Radiated Emission test.



Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

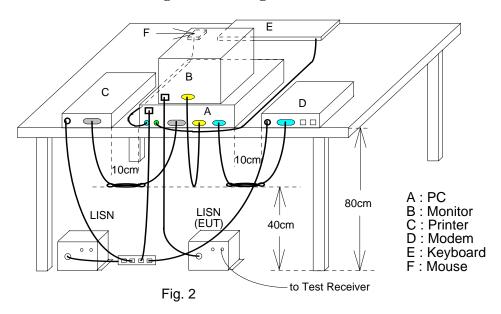
Page: 12 of 21

# 5. Conducted Emissions Test

## **5.1** Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **3.** Repeat above procedures until all frequency measured were complete.

# **5.2** Test SET-UP (Block Diagram of Configuration)



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Report No.: EI/2009/40009 Issue Date: May 11, 2009

Page: 13 of 21

# **5.3** Measurement Equipment Used:

Conducted Emission Test Site								
<b>EQUIPMENT</b>	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009			
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2008	02/17/2009			
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/18/2008	02/17/2009			
Transient Limiter	R&S	ESH3Z2	357.8810.52	05/19/2008	05/18/2009			
50 Ohms terminator	N/A	EMC-049-1	N/A	06/04/2008	06/03/2009			
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009			

## **5.4** Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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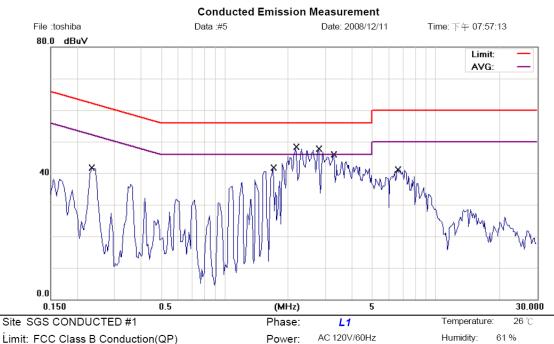
Page: 14 of 21

Air Pressure:

hpa

# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Charge Mode			Test Date:	Dec. 11, 2008
Temperature:	26 ℃	Humidity:	61 %	Test By:	Jazz



Distance:

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS001

M/N: T001

Note: charge mode

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.2350	39.50	0.15	39.65	62.27	-22.62	QP	
2	0.2350	29.20	0.15	29.35	52.27	-22.92	AVG	
3	1.7000	39.50	0.04	39.54	56.00	-16.46	QP	
4	1.7000	21.20	0.04	21.24	46.00	-24.76	AVG	
5	2.1800	45.70	0.04	45.74	56.00	-10.26	QP	
6	2.1800	23.90	0.04	23.94	46.00	-22.06	AVG	
7 *	2.7900	45.90	0.04	45.94	56.00	-10.06	QP	
8	2.7900	24.20	0.04	24.24	46.00	-21.76	AVG	
9	3.2900	44.30	0.05	44.35	56.00	-11.65	QP	
10	3.2900	25.40	0.05	25.45	46.00	-20.55	AVG	
11	6.6200	34.20	0.09	34.29	60.00	-25.71	QP	
12	6.6200	18.20	0.09	18.29	50.00	-31.71	AVG	

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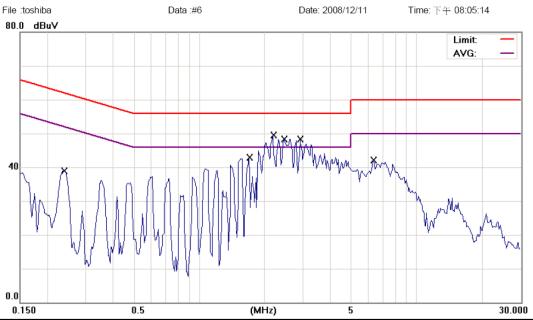
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Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 15 of 21

#### **Conducted Emission Measurement**



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS001

M/N: T001

Note: charge mode

Phase:	N	l emperature:	26 ℃
Power:	AC 120V/60Hz	Humidity:	61 %
Distance:		Air Pressure:	hpa

Air Pressure: Distance:

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	0.2400	37.10	0.13	37.23	62.10	-24.87	QP	
2	0.2400	25.00	0.13	25.13	52.10	-26.97	AVG	
3	1.7000	41.70	0.03	41.73	56.00	-14.27	QP	
4	1.7000	21.20	0.03	21.23	46.00	-24.77	AVG	
5 *	2.1900	47.60	0.03	47.63	56.00	-8.37	QP	
6	2.1900	25.60	0.03	25.63	46.00	-20.37	AVG	
7	2.4500	45.80	0.03	45.83	56.00	-10.17	QP	
8	2.4500	22.20	0.03	22.23	46.00	-23.77	AVG	
9	2.9200	45.20	0.03	45.23	56.00	-10.77	QP	
10	2.9200	25.40	0.03	25.43	46.00	-20.57	AVG	
11	6.3200	35.80	0.11	35.91	60.00	-24.09	QP	
12	6.3200	20.80	0.11	20.91	50.00	-29.09	AVG	

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Page: 16 of 21

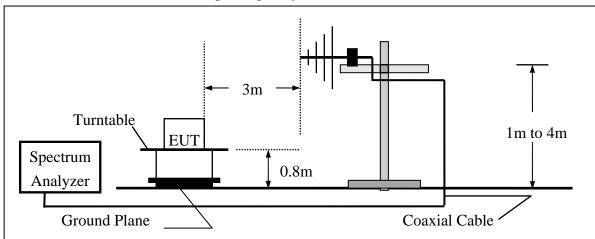
## 6. Radiated Emission Test

## **6.1** Measurement Procedure

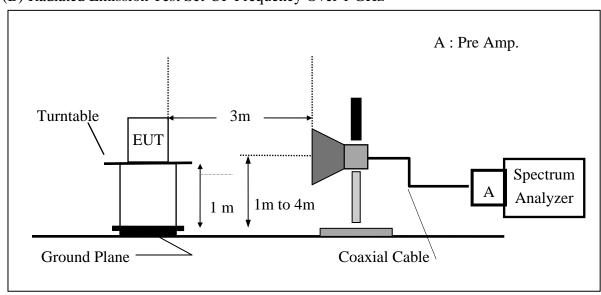
- The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- And also, each emission was to be maximized by changing the polarization of 3. receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

# **6.2** Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



# (B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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Report No.: EI/2009/40009 Issue Date: May 11, 2009

Page: 17 of 21

# **6.3** Measurement Equipment Used:

966 Chamber										
EQUIPMENT	LAST	CAL DUE.								
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010					
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009					
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010					
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009					
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010					
Radio Communication Analyzer	R & S	CMU200	102189	05/13/208	05/12/2010					
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010					
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009					
Turn Table	HD	DT420	N/A	N.C.R	N.C.R					
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R					
Controller	HD	HD100	N/A	N.C.R	N.C.R					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010					
Low Loss Cable HUBER+SUHNER		SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010					
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009					

# **6.4 Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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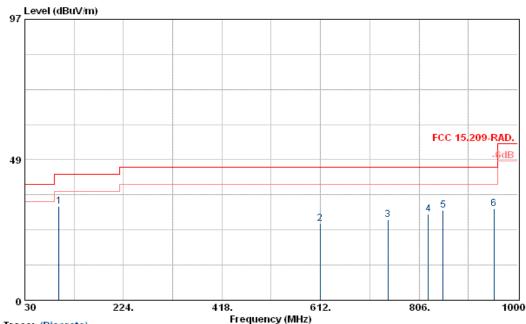
Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 18 of 21

# 6.5 Measurement Result (below 1G)

Test Date: May 08, 2009 Test Mode: Charge Mode

Frequency Range: 30MHz-1GHz Test By: Nick Temperature: 25 °C Humidity: 65 %



Trace: (Discrete)

: RF SITE

Site Condition FCC 15.209-RAD, 3m VULB9160-09 VERTICAL 149cm 360 deg

Project No. : EH/2009/40021 Applicant : Toshiba EUT Description : KDFC KYI EUT Model · CN10-J01 : CHARGE MODE Test Mode Temp./Humid. : 25/65 Operator : nick

9014101	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	
	MHz	dBu₹	dB/m	$\overline{\mathtt{dBuV/m}}$	$\overline{\mathtt{dBuV/m}}$	dB		-
1 2 3 4 5	96.93 611.03 744.89 824.43 853.53 953.44	31.96 31.04 31.05 32.23	-5.39 -3.12 -1.41 -1.29	26.57 27.92 29.64 30.94	46.00 46.00 46.00	-19.43 -18.08 -16.36 -15.06	Peak Peak Peak Peak	

# Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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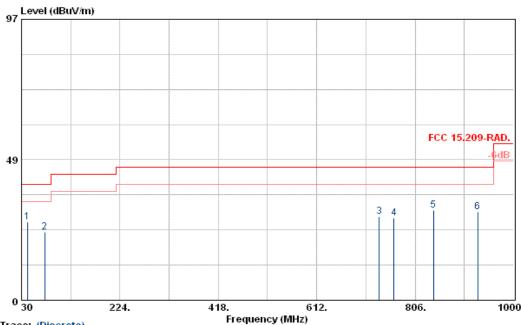


Report No.: EI/2009/40009 Issue Date: May 11, 2009

Page: 19 of 21

Test Mode: Charge Mode Test Date: May 08, 2009

Frequency Range: 30 MHz-1GHz Test By: Nick Temperature:  $25 \, ^{\circ}\text{C}$  Humidity:  $65 \, ^{\circ}\text{MHz-1GHz}$ 



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.209-RAD. 3m VULB9160-09 HORIZONTAL 149cm 0deg

 Project No.
 : EH/2009/40021

 Applicant
 : Toshiba

 EUT Description
 : KDFC KY1

 EUT Model
 : CN10-J01

 Test Mode
 : CHARGE MODE

 Temp/Humid.
 : 25/65

Temp./Humid. : 25/65 Operator : nick

beraror	. Inca	Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	
	MHz	dBu₹	dB/m	$\overline{\mathtt{dBuV/m}}$	$\overline{\mathtt{dBuV/m}}$	dB		_
1 2 3 4 5	75.59 735.19 764.29 841.89	40.41 32.12 31.40	-17.03 -3.33 -2.99 -1.29	23.38 28.79 28.41 30.99		-16.62 -17.21 -17.59 -15.01	Peak Peak Peak Peak	

## Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz  $\circ$
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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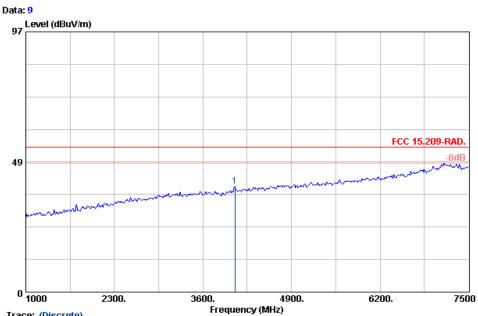
Report No.: EI/2009/40009 **Issue Date: May 11, 2009** 

Page: 20 of 21

# **Measurement Result (above 1G)**

Test Date: Dec. 25, 2008 Test Mode: Charge Mode

Frequency Range: 1GHz – 7.5GHz Test By: Jazz Temperature: 25 °C Humidity: 65 %



Trace: (Discrete)

Site RF SITE

FCC 15.209-RAD. 3m BBHA9120D VERTICAL Condition

Project No. : EI/2008/C0003 Applicant : Toshiba : CDMA TS001 EUT Description EUT Model : T001 : charge mode : 25/65 Test Mode Temp./Humid. Operator : Jazz

Freq			Factor			Level	Line		Remark
MHz	dBu₹	dB/m	dB	dB	dB/m	$\overline{\mathtt{dBuV/m}}$	$\overline{\mathtt{dBuV/m}}$	dB	
4068 00	35 60	29 79	33 18	7 28	3 89	39 49	54 00	_14 51	Peak

#### Remark:

1

- (1) Measuring frequencies from 1GHz to the 7.5GHz •
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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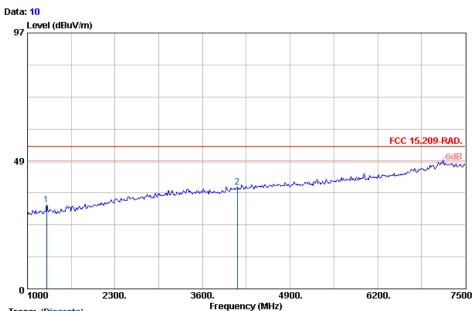


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Page: 21 of 21

Charge Mode Test Date: Dec. 25, 2008 Test Mode:

Frequency Range: 1GHz – 7.5GHz Test By: Jazz Temperature: 25 °C Humidity: 65 %



Trace: (Discrete)

Site Condition FCC 15.209-RAD, 3m BBHA9120D HORIZONTAL

Project No. EI/2008/C0003 : Toshiba : CDMA TS001 Applicant EUT Description EUT Model : T001 Test Mode : charge mode Temp./Humid. 25/65 Operator

Freq			Preamp Factor			Level	Limit Line		Remark
MHz	dBu₹	dB∕m	dB	dB	dB/m	$\overline{\mathtt{dBuV/m}}$	$\overline{\mathtt{dBuV/m}}$	dB	
1286.00 4113.50									

#### Remark:

1 2

- (1) Measuring frequencies from 1GHz to the 7.5GHz •
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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