

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B CERTIFICATION REQUIREMENT

OF

Product Name: CDMA TSX02

Brand Name: N/A

Model Name: Bag

Marketing Name: Hand Bag for Space Travel

Model Difference: N/A

Report No.: EI/2009/40010

Issue Date: May 12, 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,
191-8555, Japan

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan



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VERIFICATION OF COMPLIANCE

Applicant: Toshiba Corporation, Mobile Communications Co., Quality Management Division
1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555, Japan

Manufacturer: Toshiba Corporation, Mobile Communications Co., Quality Management Division
1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555, Japan

Product Name: CDMA TSX02

Brand Name: N/A

Model Name: Bag

Marketing Name: Hand Bag for Space Travel

Model Difference: N/A

File Number: EI/2009/40010

Date of test: Dec. 11, 2008 ~ May 08, 2009

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 Lin

Date:

May 12, 2009

Nick Lin / Engineer

Prepared By:

Alex Hsieh

Date:

May 12, 2009

Alex Hsieh / Sr. Engineer

Approved By:

Vincent Su

Date:

May 12, 2009

Vincent Su/Manager

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Version

Version No.	Date	Description
00	May 26, 2009	Revise test data and setup photo

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1. GENERAL INFORMATION

1.1 General:

Type Name:	CDMA TSX02	
Brand Name:	N/A	
Marketing Name:	Hand Bag for Space Travel	
Model:	Bag	
Model Difference:	N/A	
Data Cable (USB)	N/A	
Simple Hands-free (SHF)	N/A	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery Model:	61TSUAA, Brand: KDDI

CDMA 2000:

DUT Standards and Power:	CDMA2000	Frequency Range		Maximum Output Power	
	BC0	TX:	824.70-848.31 MHz	24.09 dBm	
		RX:	869.70-893.37 MHz		
Final Amplifier Voltage and Current Information				DC voltage (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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Bluetooth:

Bluetooth Version	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input checked="" type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
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	1M19F1D

The EUT is compliance with Bluetooth 2.0 with EDR.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: WVS-CN10-J02** 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. 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. 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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2. 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-J02 was tested with CMU200.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a 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.

2.4 Limitation

(1) Conducted Emission

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

Frequency range MHz	Class B Limits dB (uV)	
	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		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

(2) Radiated Emission

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

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
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 $\text{dB}\mu\text{V/m}=20 \log (\text{uV/m})$

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

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



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

(Remote Side)

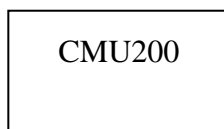


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	EUT	N/A	Hand Bag for Space Travel	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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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§ 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.

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5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2009	02/01/2010
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2009	02/01/2010
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.



AC POWER LINE CONDUCTED EMISSION TEST DATA

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

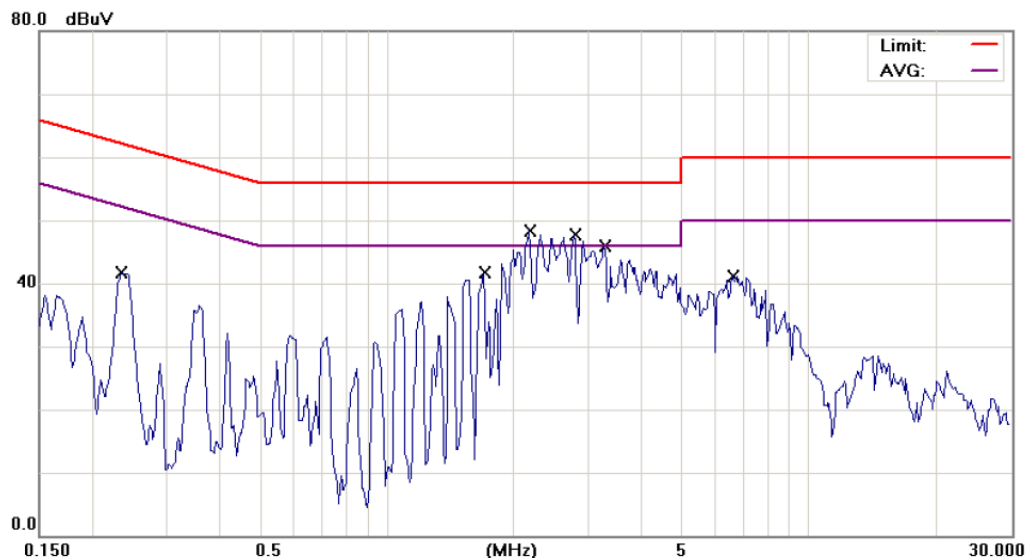
Conducted Emission Measurement

File :toshiba

Data :#5

Date: 2008/12/11

Time: 下午 07:57:13



Site SGS CONDUCTED #1

Phase: L1

Temperature: 26 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61 %

EUT: CDMA TS001

Distance:

Air Pressure: hpa

M/N: T001

Note: charge mode

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	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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Conducted Emission Measurement

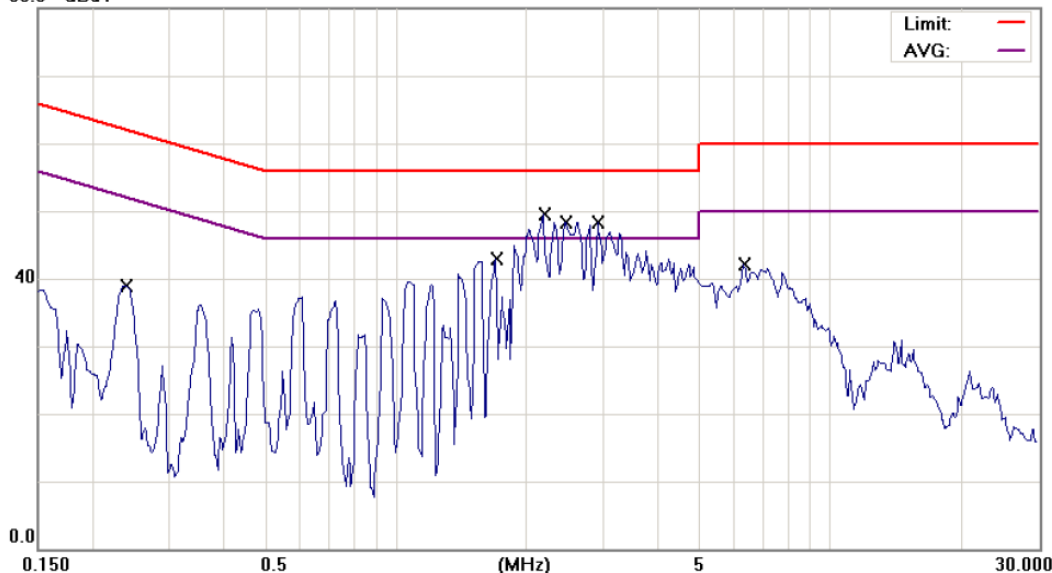
File :toshiba

Data :#6

Date: 2008/12/11

Time: 下午 08:05:14

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 26 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61 %

EUT: CDMA TS001

Distance:

Air Pressure: hpa

M/N: T001

Note: charge mode

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	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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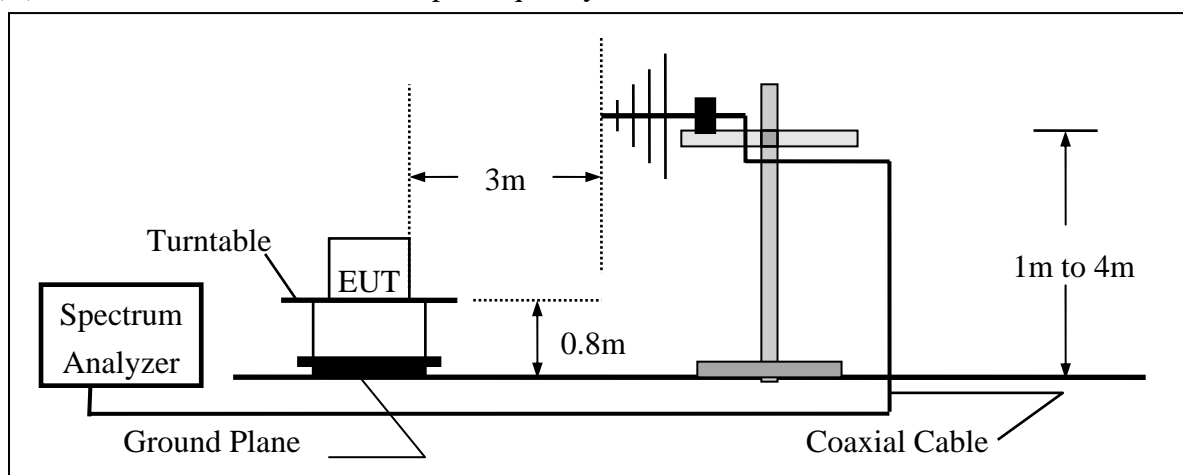
6. Radiated Emission Test

6.1 Measurement Procedure

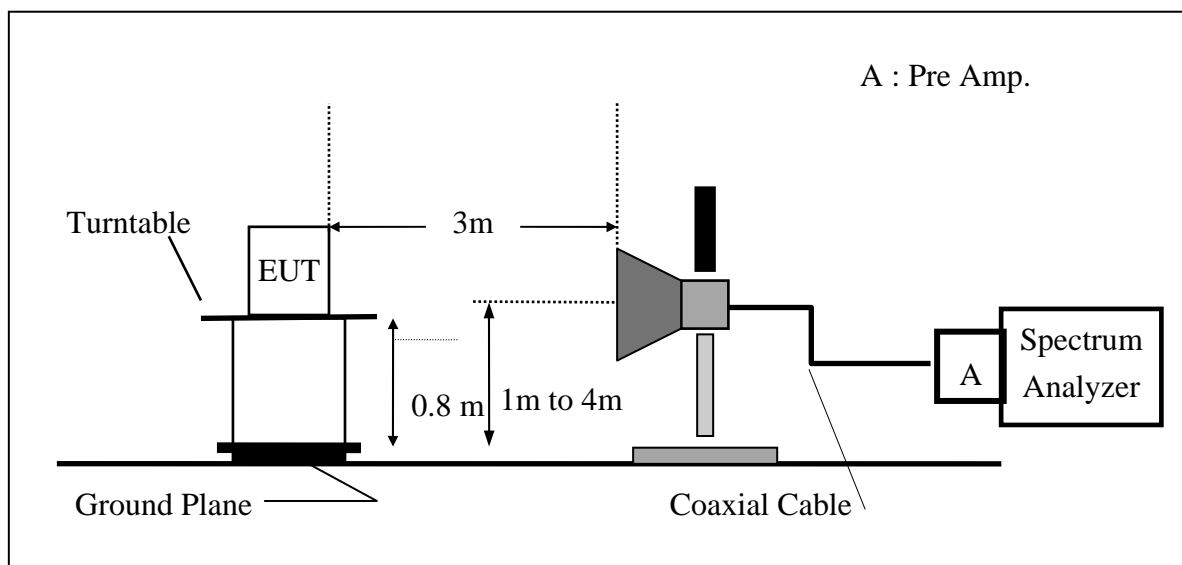
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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	05/13/2008	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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6.5 Measurement Result (below 1G)

Test Mode: Charge Mode

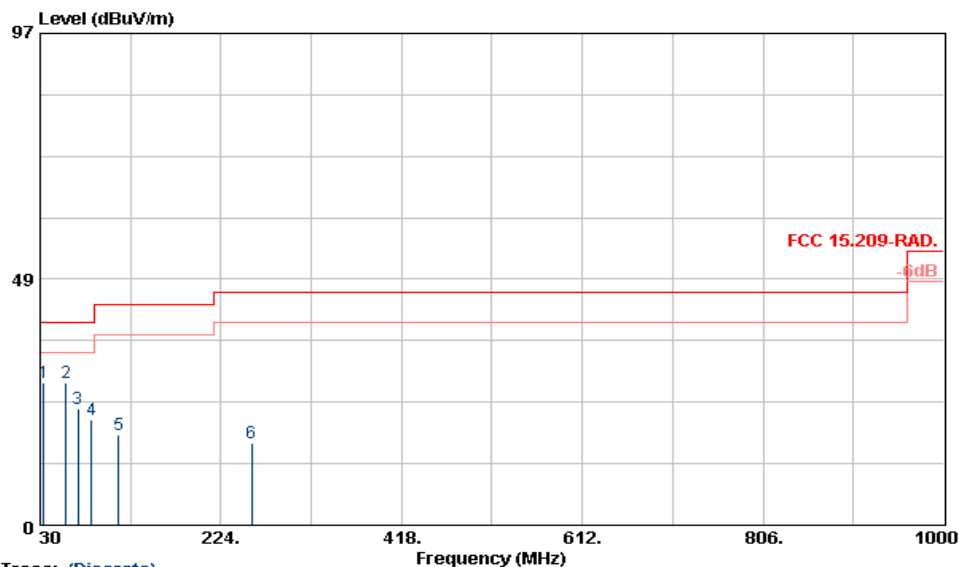
Test Date : May. 08, 2009

Frequency Range: 30MHz-1GHz

Test By: Nick

Temperature : 24 °C

Humidity : 61 %



Site : RF Site B
Condition : FCC 15.209-RAD. 3m VULB9168 VERTICAL
Project No. : EH/2009/40023
Applicant : Toshiba

EUT Description : KDFC KY
EUT Model : CN10-J02
Test Mode : CHARGE MODE
Temp./Humid. : 25/65
Operator : nick

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss			Line	Limit	
		dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	
1	33.88	53.98	13.33	39.80	0.47	-26.00	27.98	40.00	-12.02 Peak
2	58.13	54.65	12.91	40.08	0.50	-26.67	27.98	40.00	-12.02 Peak
3	70.74	52.57	10.51	40.89	0.76	-29.62	22.95	40.00	-17.05 Peak
4	85.29	51.67	9.38	40.89	0.76	-30.75	20.92	40.00	-19.08 Peak
5	114.39	46.72	11.68	41.47	0.83	-28.96	17.76	43.50	-25.74 Peak
6	256.98	46.00	11.73	42.85	1.41	-29.71	16.29	46.00	-29.71 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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Test Mode: Charge Mode

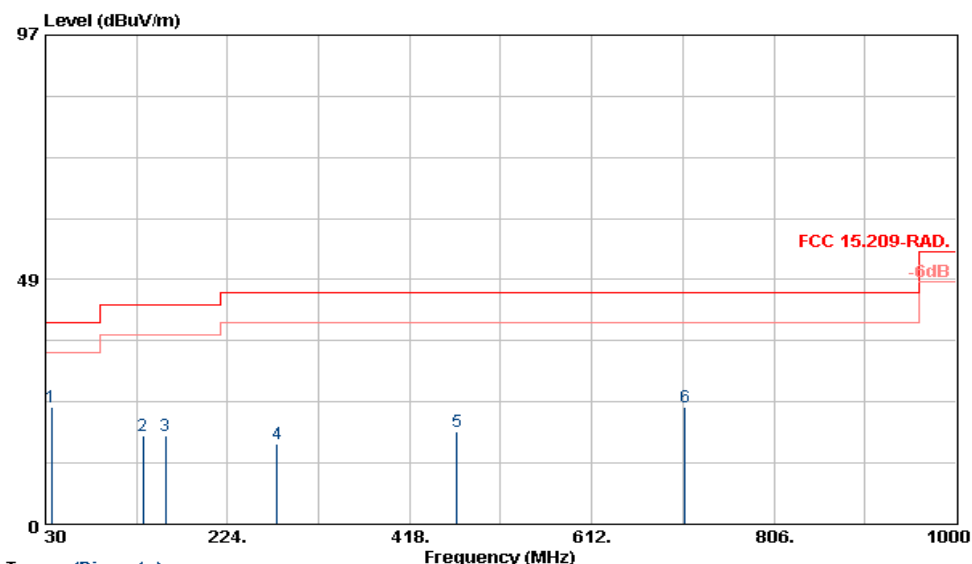
Frequency Range: 30MHz-1GHz

Temperature : 24 °C

Test Date : May. 08, 2009

Test By: Nick

Humidity : 61 %



Trace: (Discrete)

Site : RF Site B
Condition : FCC 15.209-RAD. 3m VULB9168 HORIZONTAL
Project No. : EH/2009/40023
Applicant : Toshiba

EUT Description : KDFC KY
EUT Model : CN10-J02
Test Mode : CHARGE MODE
Temp./Humid. : 25/65
Operator : nick

	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	36.79	49.19	13.39	39.80	0.47	-25.94	23.25	40.00	-16.75	Peak
2	133.79	45.62	12.93	41.88	0.93	-28.02	17.60	43.50	-25.90	Peak
3	158.04	44.48	14.14	42.28	1.15	-26.99	17.49	43.50	-26.01	Peak
4	276.38	45.25	12.26	42.85	1.41	-29.18	16.07	46.00	-29.93	Peak
5	468.44	43.52	16.13	43.14	1.95	-25.06	18.46	46.00	-27.54	Peak
6	710.94	44.20	19.79	43.47	2.59	-21.09	23.11	46.00	-22.89	Peak

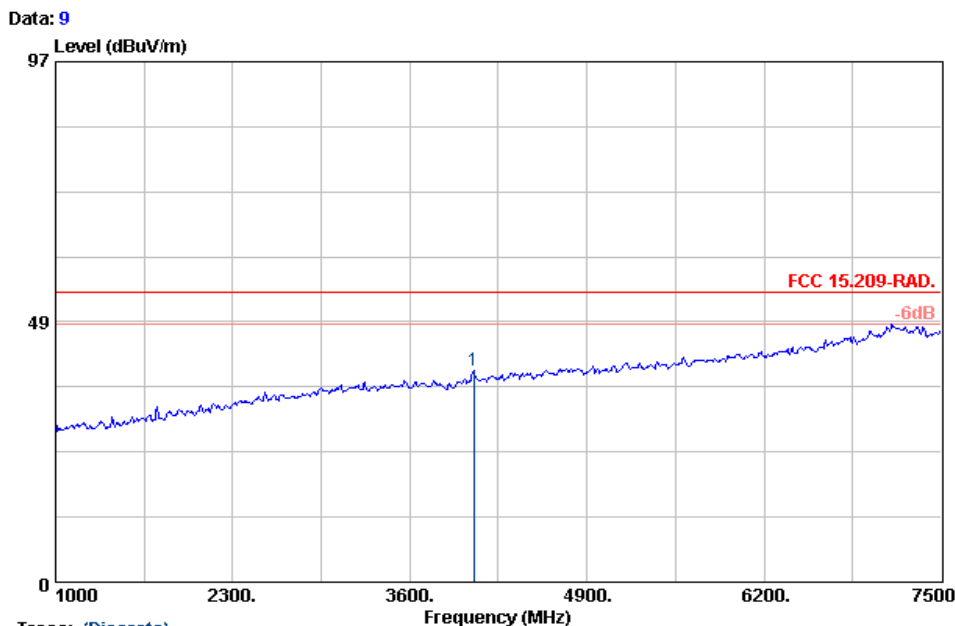
Remark :

- (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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Test Mode: Charge Mode
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Dec. 25, 2008
Test By: Jazz
Humidity : 65 %



Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI/2008/C0003
Applicant : Toshiba
EUT Description : CDMA TS001
EUT Model : T001
Test Mode : charge mode
Temp./Humid. : 25/65
Operator : Jazz

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4068.00	35.60	29.79	33.18	7.28	3.89	39.49	54.00	-14.51	Peak

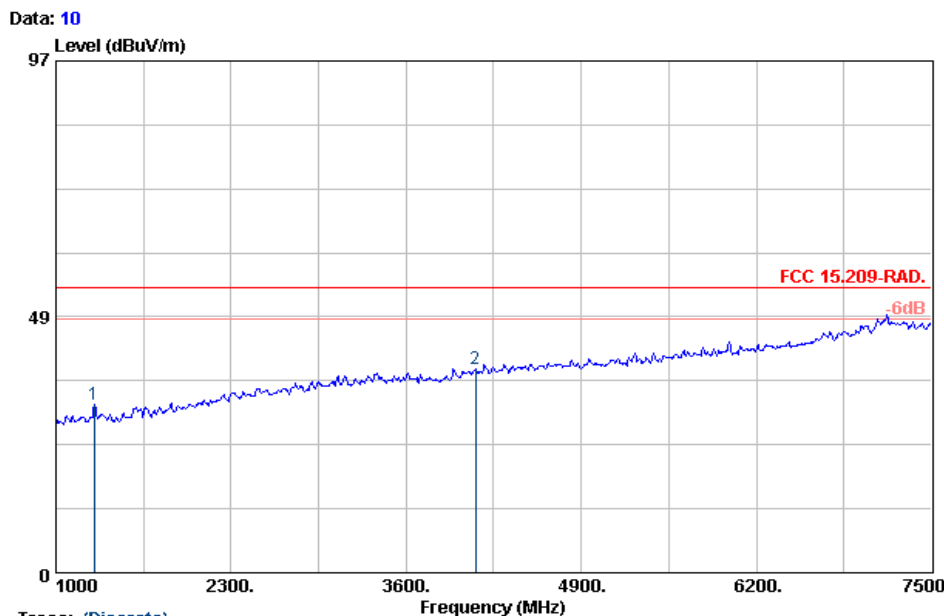
Remark :

- (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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Test Mode: Charge Mode
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Dec. 25, 2008
Test By: Jazz
Humidity : 65 %



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI/2008/C0003
Applicant : Toshiba
EUT Description : CDMA TS001
EUT Model : T001
Test Mode : charge mode
Temp./Humid. : 25/65
Operator : Jazz

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	1286.00	38.78	24.63	35.19	3.71	-6.85	31.93	54.00	-22.07	Peak
2	4113.50	34.56	29.88	33.15	7.31	4.04	38.60	54.00	-15.40	Peak

Remark :

- (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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