

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: TG03-KDDI

Brand Name: Fujitsu Toshiba Mobile Communications Limited

Model Name: CDMA TSI04

Model Different: N/A

FCC ID: YUW-TSI04

Report No.: EI/2010/A0002

Issue Date: Nov. 02, 2010

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Fujitsu Toshiba Mobile Communications Limited
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Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
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Taipei County, Taiwan



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VERIFICATION OF COMPLIANCE

Applicant: Fujitsu Toshiba Mobile Communications Limited
1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588, JAPAN

Product Name: TG03-KDDI

Brand Name: Fujitsu Toshiba Mobile Communications Limited

Model No.: CDMA TSI04

Model Difference: N/A

FCC ID: YUW-TSI04

Model Name: N/A

File Number: EI/2010/A0002

Date of test: Oct. 15, 2010 ~ Oct. 30, 2010

Date of EUT Receive: Oct. 15, 2010

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:

Nov. 02, 2010

Nick Lin / Engineer

Prepared By:

Gigi yeh

Date:

Nov. 02, 2010

Gigi Yeh / Clerk

Approved By:

Arno Hsieh

Date:

Nov. 02, 2010

Arno Hsieh / Asst. Supervisor

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Version

Version No.	Date	Description
00	Nov. 02, 2010	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name	TG03-KDDI	
Brand Name	Fujitsu Toshiba Mobile Communications Limited	
Model Name	CDMA TSI04	
USB Cable	Model No.: HPC1579-010810(Type B), Supplier: Hoshiden	
Power Supply	Battery:	Model No.: UF424261F-HMN,, Supplier: Sanyo

CDMA:

DUT Standards And Power:	CDMA2000	Frequency Range		Maximum Rated EIRP Power	
	Cellular	TX:	824.70-848.31 MHz	26.41	dBm
		RX:	869.70-893.31 MHz		
Type of Emission		CDMA2000 Cellular: 1M28F1W			
Hardware Version		CS			
Software Version		T.B.D.			
Antenna Type		PIFA Type			

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
CDMA2000 Cellular	3.9Vdc	540

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WLAN: 802.11 b/g:

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Output Power:	<input checked="" type="checkbox"/> 802.11 b: 15.45dBm (Peak) <input checked="" type="checkbox"/> 802.11 g: 22.11dBm (Peak)
Modulation Technology:	<input checked="" type="checkbox"/> DSSS, <input checked="" type="checkbox"/> OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	Chip Antenna, 1.15dBi.

Bluetooth:

Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	7.31 dBm (Peak)
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$
Operating Mode:	Point-to-Point
Antenna Designation:	Chip Antenna, 1.15dBi.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: YUW-TSI04** 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-4.

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.

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 EUT was operated in the normal continuous transmitting.

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.

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 (config 1, 2)

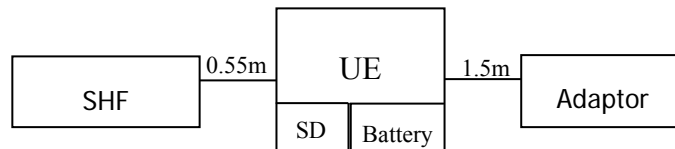


Fig. 2-2 Configuration of Tested System (config 3)

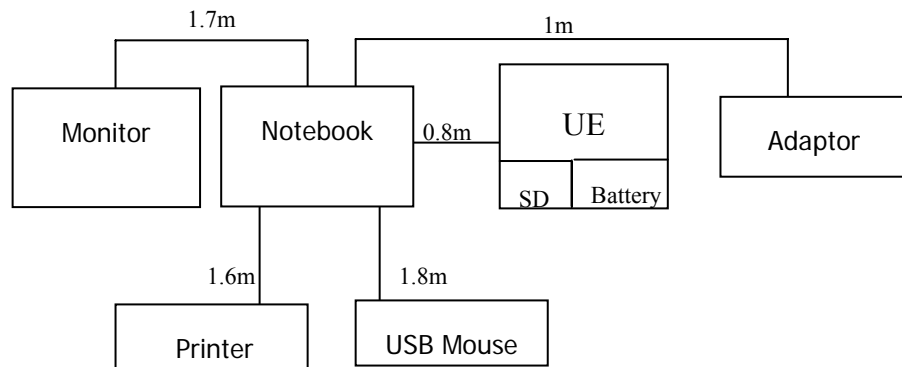


Fig. 2-3 Configuration of Tested System (Remote Side)

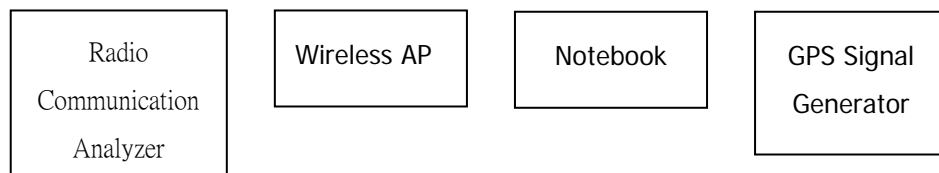


Table 2-1 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID	Data Cable	Power Cord
1.	Notebook	IBM	T60	L3A9050	DoC	N/A	1.6m Un-shielded
2.	GPS Signal Generator	WELNAVIGA TE INC.	GS 50	607492	N/A	N/A	Un-shielded
3.	Monitor	HP	HSTND-2F02	CND7122S7	DoC	1.6 Un-shielded	Un-shielded
4.	USB Mouse	HP	MO19UCA	020506990	N/A	1.8m Un-shielded	N/A
5.	Printer	HP	DJ640C	TH12QE110Y	N/A	1.6m, Un-Shielded	Un-shielded
6.	Micro SD	SanDisk	2G	N/A	N/A	N/A	N/A
7.	Adaptor	AU by KDDI	HS-YHA	N/A	N/A	N/A	Un-shielded
8.	SHF	Hoshiden	HDH0669-010221 (Earphone)	N/A	N/A	0.55m, Un-shielded	N/A

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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.

The data cable was connected to notebook PC and data transferred by program.

Test Plan:

K01-KD	Config 1	Config 2	Config 3
Applicable standard (FCC)	Part 15B		
Accessories	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + Data Cable(Type B) + SHF
Description	Full function	Full function	Full function
radiated emission	Full function (REC mode)	Full function (Play mode)	Data link
conducted emission (DC Power)	N/A	N/A	N/A
conducted emission (AC Power)	Full function (REC mode)	Full function (Play mode)	Data link

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5.3 Measurement Equipment Used:

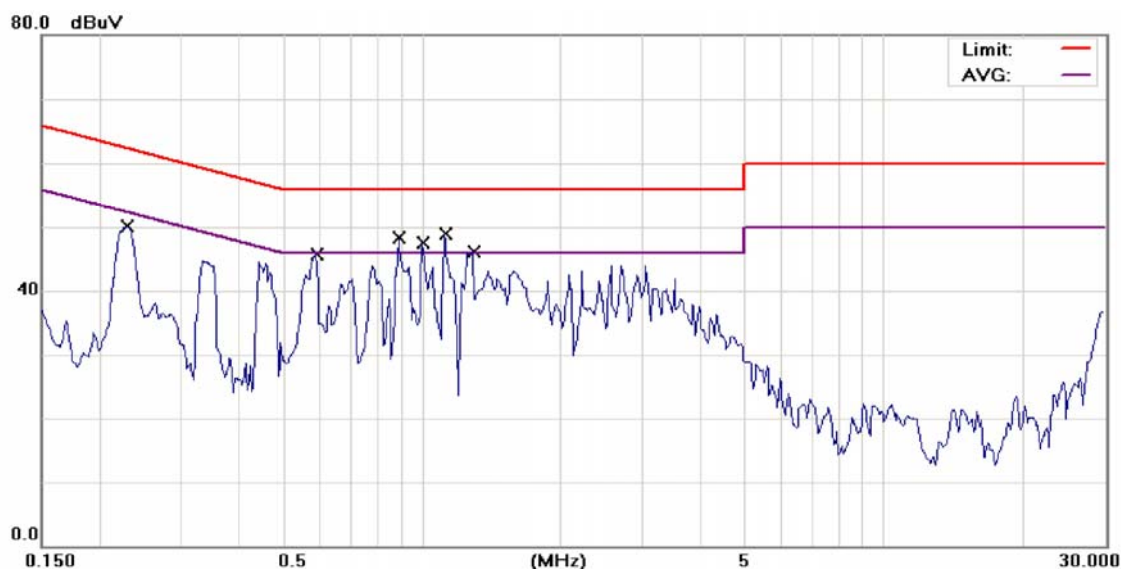
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2010	09/14/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

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:	Config 1	Test Date:	Oct. 28, 2010
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: TG03-KDDI

Distance:

Air Pressure: hpa

M/N: CDMA TSI04

Note: Full function (REC mode) _config1

MEID: 00a1000014fa0105

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2293	46.13	0.12	46.25	62.48	-16.23	QP	
2		0.2293	36.99	0.12	37.11	52.48	-15.37	AVG	
3		0.5883	40.75	0.12	40.87	56.00	-15.13	QP	
4		0.5883	23.12	0.12	23.24	46.00	-22.76	AVG	
5		0.8880	41.60	0.12	41.72	56.00	-14.28	QP	
6		0.8880	25.74	0.12	25.86	46.00	-20.14	AVG	
7	*	0.9980	44.72	0.12	44.84	56.00	-11.16	QP	
8		0.9980	26.15	0.12	26.27	46.00	-19.73	AVG	
9		1.1239	36.83	0.12	36.95	56.00	-19.05	QP	
10		1.1239	20.79	0.12	20.91	46.00	-25.09	AVG	
11		1.2872	41.12	0.13	41.25	56.00	-14.75	QP	
12		1.2872	23.51	0.13	23.64	46.00	-22.36	AVG	

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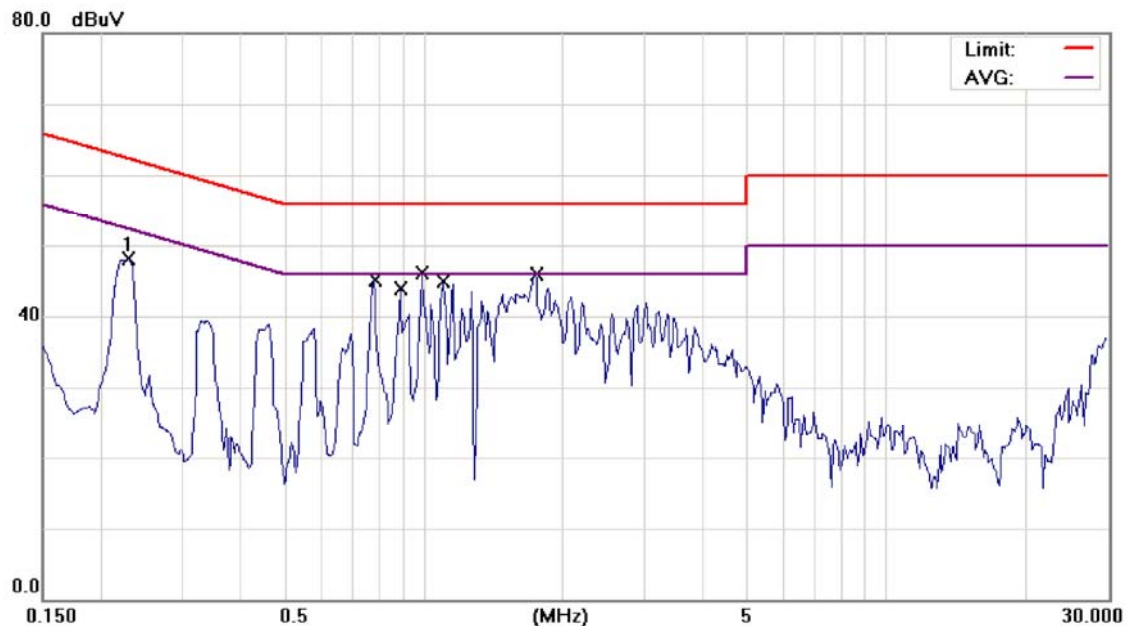
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: TG03-KDDI

Distance:

Air Pressure: hpa

M/N: CDMA TSI04

Note: Full function (REC mode) _config1

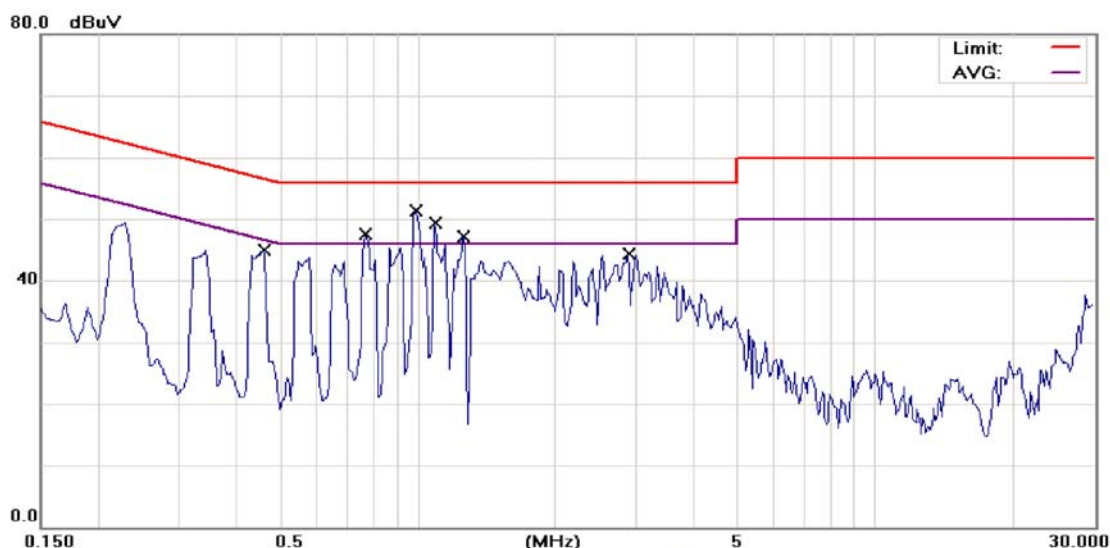
MEID: 00a1000014fa0105

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2300	48.01	0.13	48.14	62.45	-14.31	peak	
2		0.7863	42.94	0.13	43.07	56.00	-12.93	QP	
3		0.7863	25.38	0.13	25.51	46.00	-20.49	AVG	
4		0.8882	43.83	0.13	43.96	56.00	-12.04	QP	
5		0.8882	27.09	0.13	27.22	46.00	-18.78	AVG	
6		0.9877	43.24	0.13	43.37	56.00	-12.63	QP	
7		0.9877	26.48	0.13	26.61	46.00	-19.39	AVG	
8		1.0975	40.35	0.13	40.48	56.00	-15.52	QP	
9		1.0975	20.62	0.13	20.75	46.00	-25.25	AVG	
10	*	1.7442	45.33	0.15	45.48	56.00	-10.52	QP	
11		1.7442	26.60	0.15	26.75	46.00	-19.25	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 2	Test Date:	Oct. 28, 2010
		Test By:	Nick



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: TG03-KDDI

M/N: CDMA TSI04

Note: Full function (Play mode) _config2

MEID: 00a1000014fa0105

Phase: L1

Power: AC 120V/60Hz

Distance:

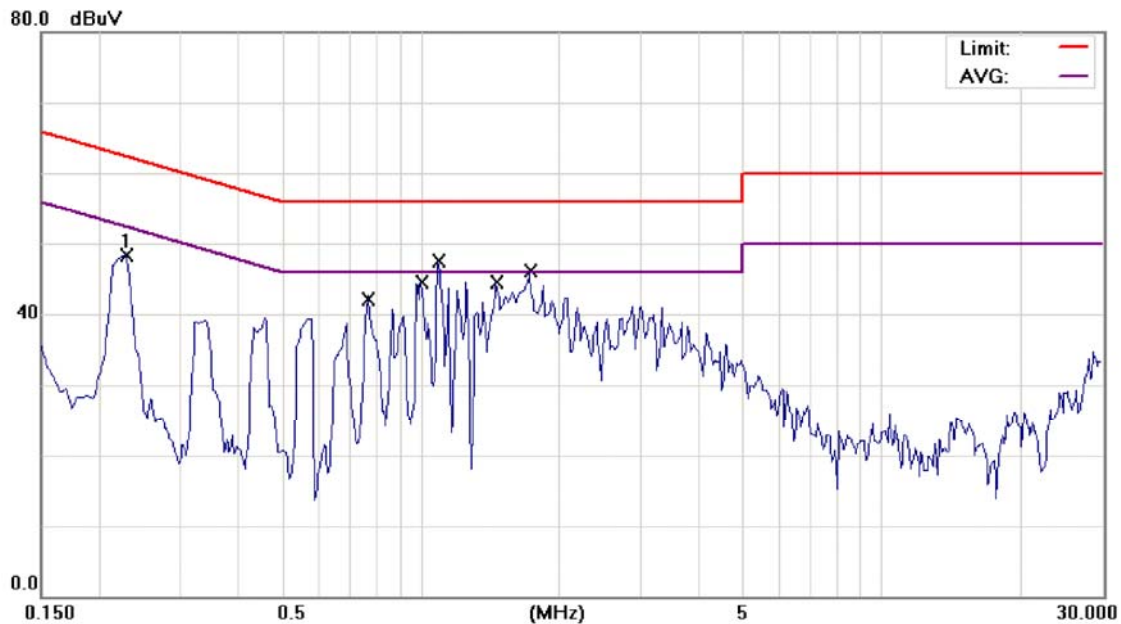
Temperature: 23 °C

Humidity: 56 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.4588	42.42	0.12	42.54	56.71	-14.17	QP	
2		0.4588	32.74	0.12	32.86	46.71	-13.85	AVG	
3		0.7756	46.41	0.12	46.53	56.00	-9.47	QP	
4		0.7756	30.63	0.12	30.75	46.00	-15.25	AVG	
5	*	0.9878	48.94	0.12	49.06	56.00	-6.94	QP	
6		0.9878	30.09	0.12	30.21	46.00	-15.79	AVG	
7		1.0906	46.63	0.12	46.75	56.00	-9.25	QP	
8		1.0906	25.62	0.12	25.74	46.00	-20.26	AVG	
9		1.2607	44.45	0.13	44.58	56.00	-11.42	QP	
10		1.2607	26.79	0.13	26.92	46.00	-19.08	AVG	
11		2.8847	41.78	0.18	41.96	56.00	-14.04	QP	
12		2.8847	23.55	0.18	23.73	46.00	-22.27	AVG	

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Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: TG03-KDDI
 M/N: CDMA TSI04
 Note: Full function (Play mode) _config2
 MEID: 00a1000014fa0105

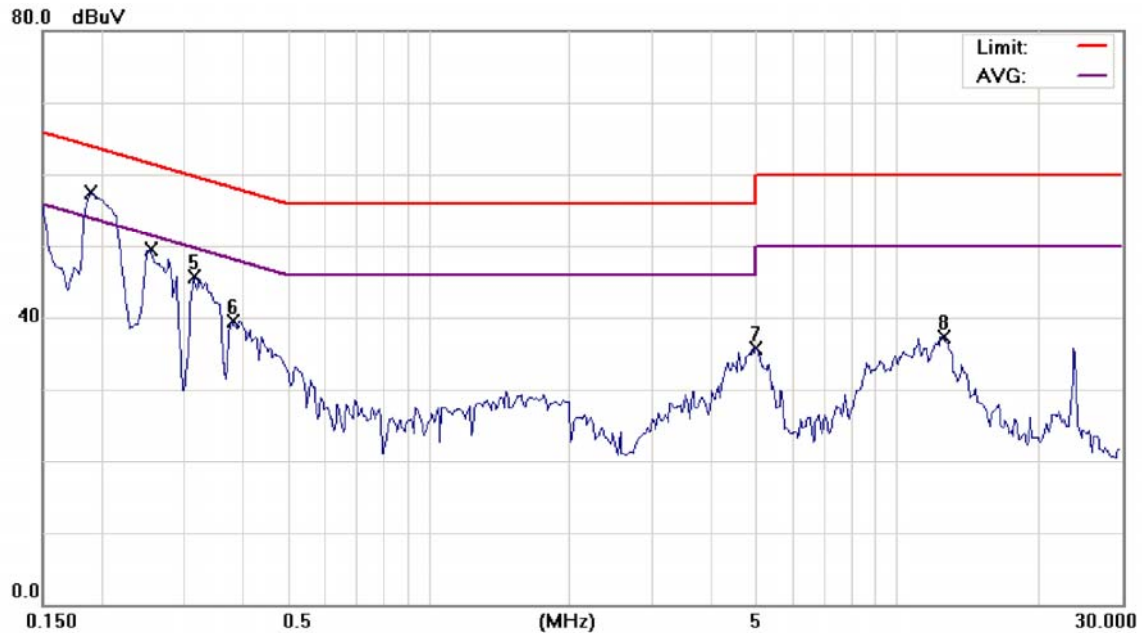
Phase: **N**
 Power: AC 120V/60Hz
 Distance:
 Temperature: 23 °C
 Humidity: 56 %
 Air Pressure: hpa

No. Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.2300	48.25	0.13	48.38	62.45	-14.07	peak	
2	0.7758	41.80	0.13	41.93	56.00	-14.07	QP	
3	0.7758	25.36	0.13	25.49	46.00	-20.51	AVG	
4	0.9880	44.52	0.13	44.65	56.00	-11.35	QP	
5	0.9880	27.12	0.13	27.25	46.00	-18.75	AVG	
6 *	1.0900	44.70	0.13	44.83	56.00	-11.17	QP	
7	1.0900	24.48	0.13	24.61	46.00	-21.39	AVG	
8	1.4593	42.21	0.14	42.35	56.00	-13.65	QP	
9	1.4593	24.26	0.14	24.40	46.00	-21.60	AVG	
10	1.7306	44.45	0.15	44.60	56.00	-11.40	QP	
11	1.7306	26.01	0.15	26.16	46.00	-19.84	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Oct. 28, 2010
		Test By:	Nick



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: TG03-KDDI

M/N: CDMA TSI04

Note: Data link _config3

MEID: 00a1000014fa0105

Phase: L1

Power: AC 120V/60Hz

Distance:

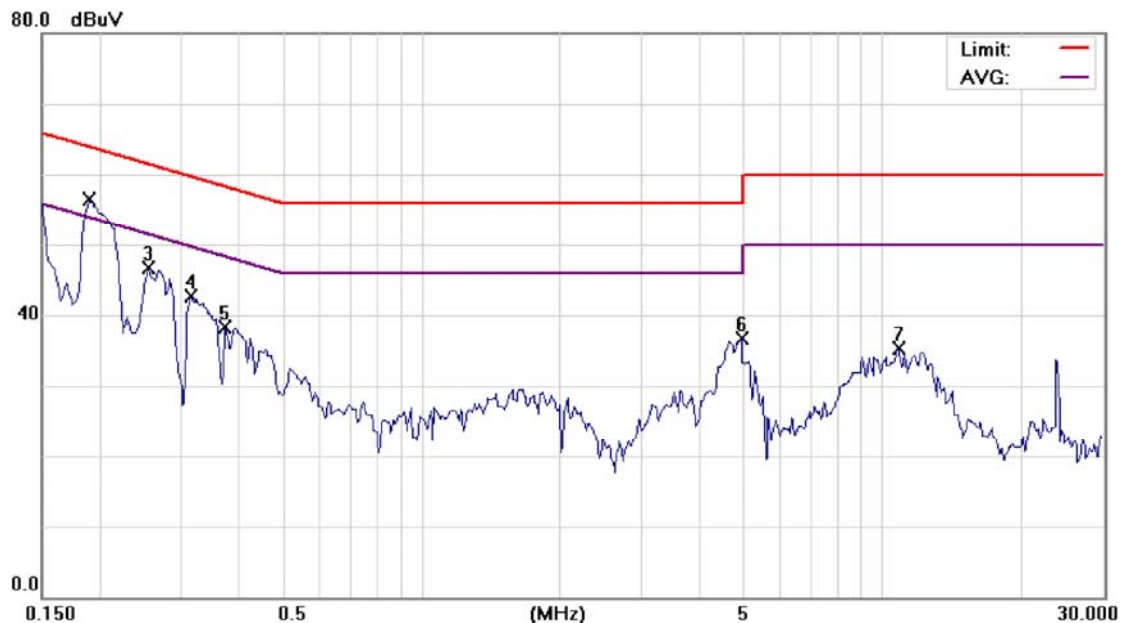
Temperature: 24 °C

Humidity: 57 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1896	54.22	0.12	54.34	64.05	-9.71	QP	
2		0.1896	36.79	0.12	36.91	54.05	-17.14	AVG	
3		0.2545	43.76	0.12	43.88	61.61	-17.73	QP	
4		0.2545	25.50	0.12	25.62	51.61	-25.99	AVG	
5		0.3150	45.62	0.12	45.74	59.84	-14.10	peak	
6		0.3800	39.46	0.12	39.58	58.28	-18.70	peak	
7		5.0000	35.45	0.22	35.67	56.00	-20.33	peak	
8		12.5200	36.79	0.55	37.34	60.00	-22.66	peak	

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 57 %

EUT: TG03-KDDI

Distance:

Air Pressure: hpa

M/N: CDMA TSI04

Note: Data link _config3

MEID: 00a1000014fa0105

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1896	53.41	0.13	53.54	64.05	-10.51	QP	
2		0.1896	33.47	0.13	33.60	54.05	-20.45	AVG	
3		0.2550	46.51	0.13	46.64	61.59	-14.95	peak	
4		0.3150	42.57	0.12	42.69	59.84	-17.15	peak	
5		0.3750	38.26	0.12	38.38	58.39	-20.01	peak	
6		4.9500	36.54	0.22	36.76	56.00	-19.24	peak	
7		10.8400	34.85	0.51	35.36	60.00	-24.64	peak	

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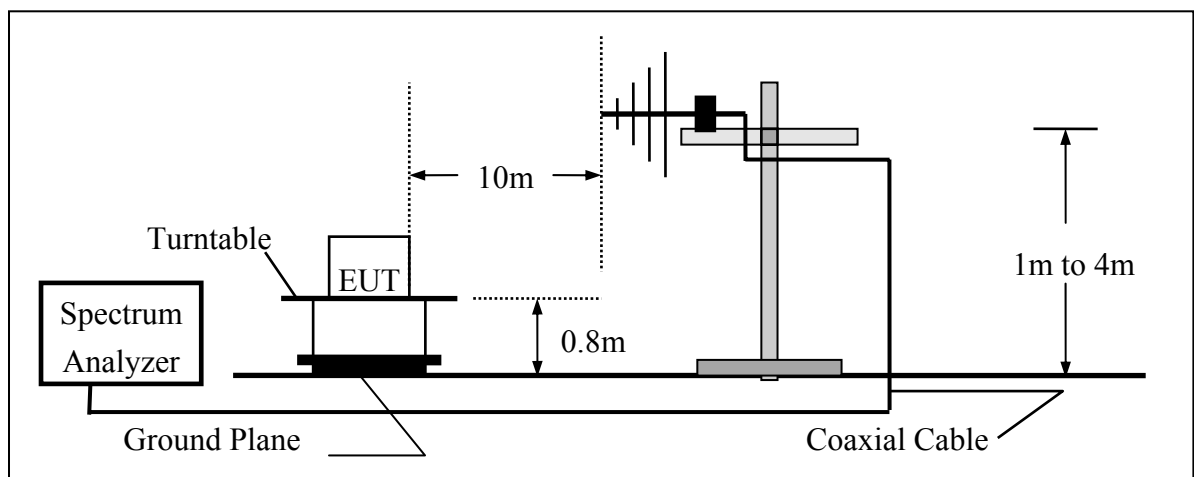
6. Radiated Emission Test

6.1 Measurement Procedure

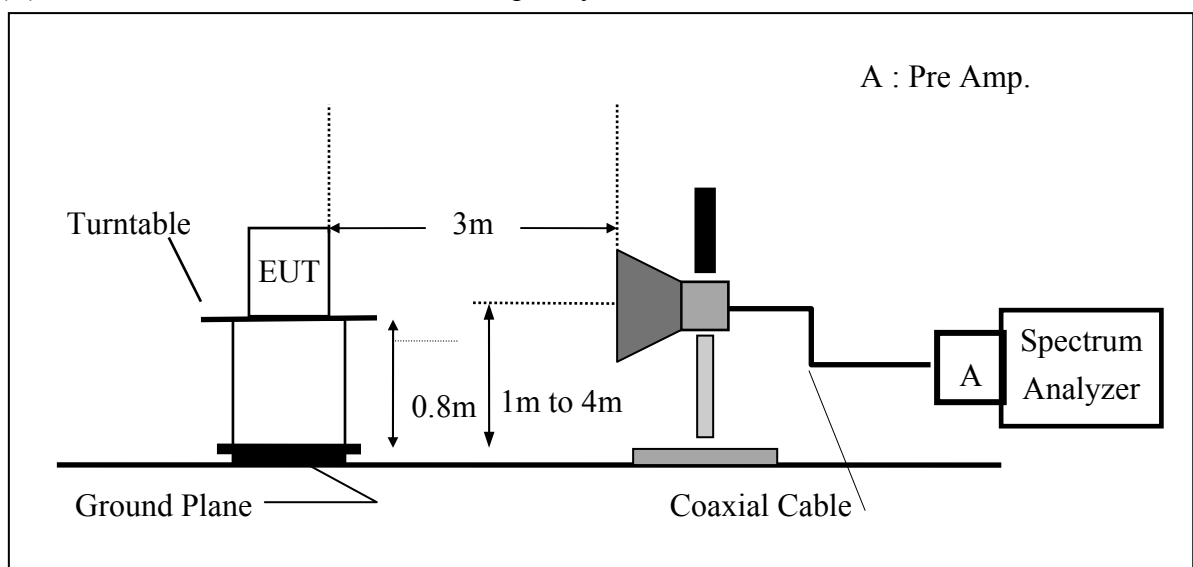
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

10m Open Area Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI	100335	02/05/2010	02/04/2011
RF-Amplifier	Agilent	8447D	2944A09469	11/30/2009	11/29/2010
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	03/11/2010	03/02/2011
Turn Table	HD	DT420	420/542	N/A	N/A
Antenna Master	HD	MA 240	240/515	N/A	N/A
Controller	HD	HD 100	100/589	N/A	N/A
Low Loss Cable	N/A	OS RE Cable	N/A	11/30/2009	11/29/2010

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2009	11/18/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/28/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Radio Communication Analyzer	R & S	CMU200	111787	10/31/2010	10/30/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
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	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

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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	

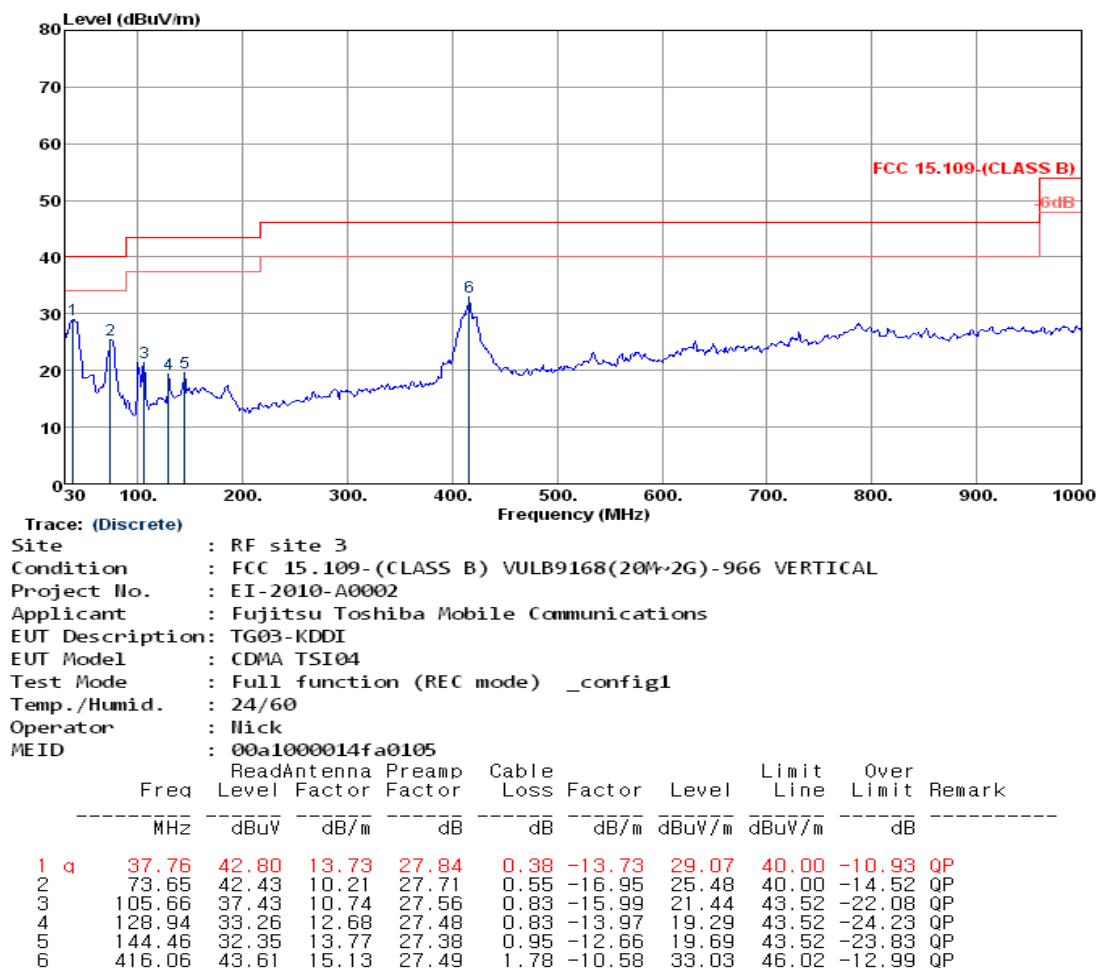
6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date: Oct. 28, 2010

Frequency Range: 30MHz-1GHz

Test By: Nick



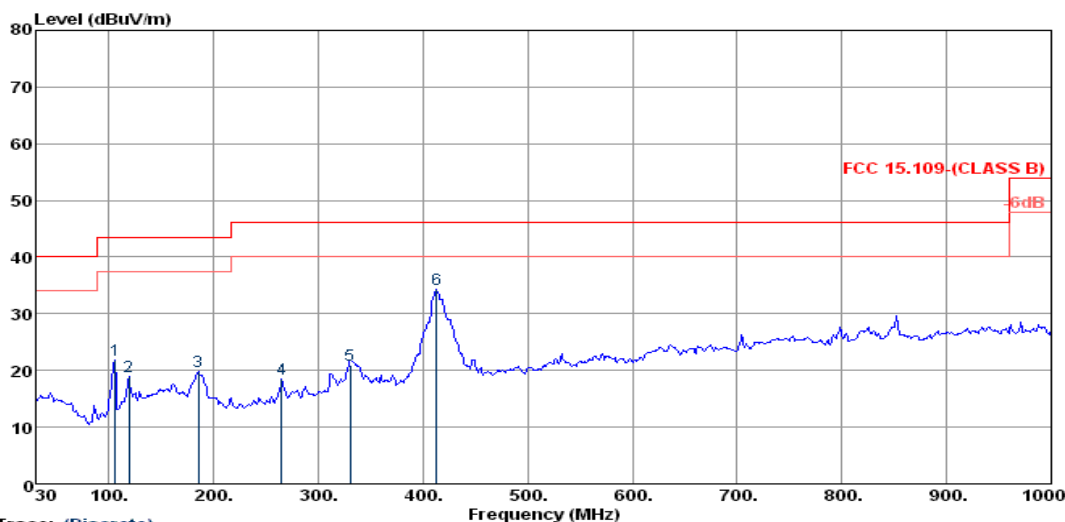
Remark :

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

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Test Mode: Config 1
Frequency Range: 30MHz-1GHz

Test Date: Oct. 28, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (REC mode) _config1
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Read	Antenna	Preamplifier	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	105.66	37.91	10.74	27.56	0.83 -15.99	21.92	43.52	-21.60 QP
2	119.24	33.46	12.06	27.52	0.83 -14.63	18.83	43.52	-24.69 QP
3	185.20	34.70	11.20	27.14	1.17 -14.77	19.93	43.52	-23.59 QP
4	264.74	31.79	11.96	26.76	1.43 -13.37	18.42	46.02	-27.60 QP
5	330.70	32.69	13.52	26.90	1.53 -11.85	20.84	46.02	-25.18 QP
6	413.15	45.04	15.08	27.48	1.78 -10.62	34.42	46.02	-11.60 QP

Remark :

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

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SGS Taiwan Ltd.

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No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路 134 號

t (886-2) 2299-3279

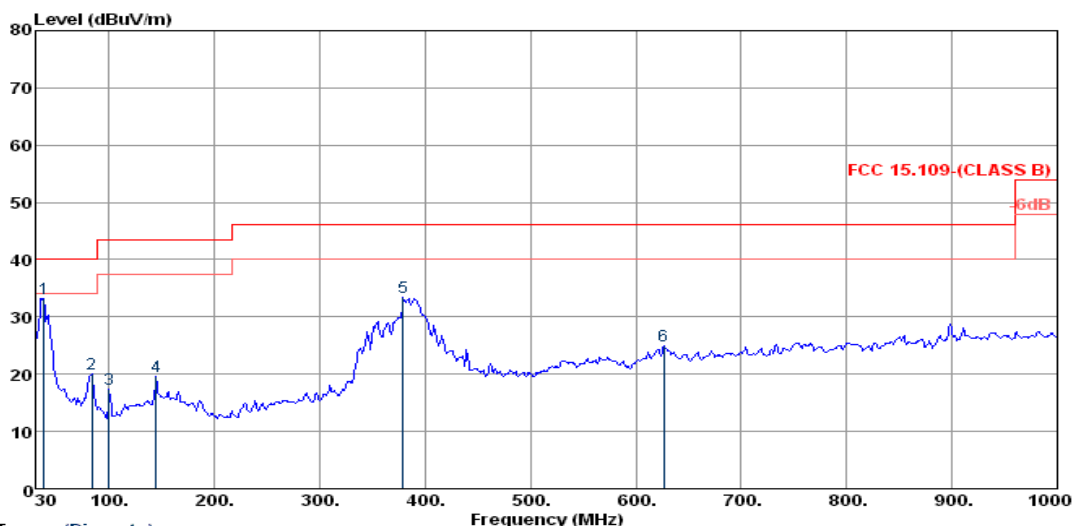
f (886-2) 2298-0488

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Member of SGS Group

Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Oct. 28, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (Play mode) _config2
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read	Antenna	Preamp	Cable	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	37.76	46.92	13.73	27.84	0.38	-13.73	33.19	40.00
2	83.35	37.59	9.35	27.66	0.72	-17.59	20.00	40.00
3	99.84	34.03	10.15	27.57	0.72	-16.70	17.33	43.52
4	144.46	32.27	13.77	27.38	0.95	-12.66	19.61	43.52
5	379.20	44.65	14.38	27.25	1.74	-11.13	33.52	46.02
6	626.55	31.49	18.80	27.45	2.18	-6.47	25.02	46.02

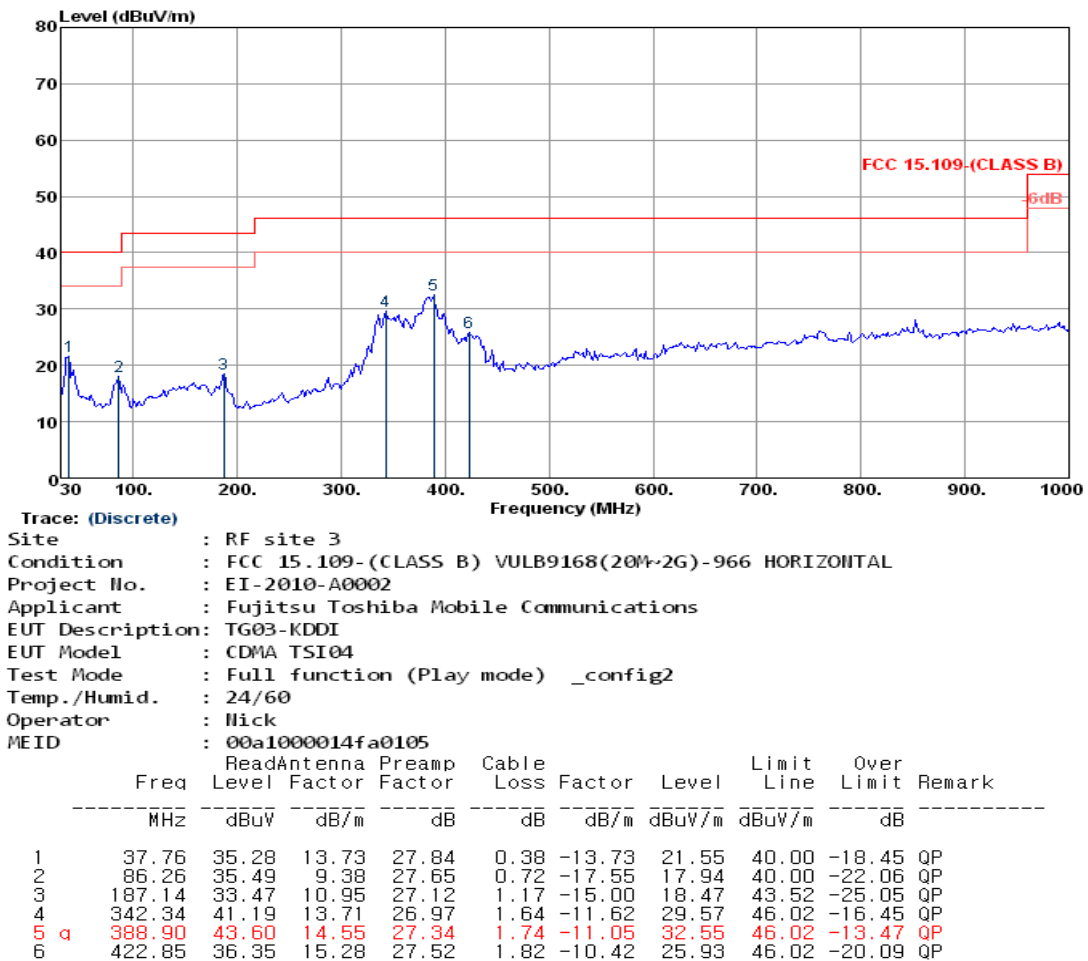
Remark :

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

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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Oct. 28, 2010
Test By: Nick

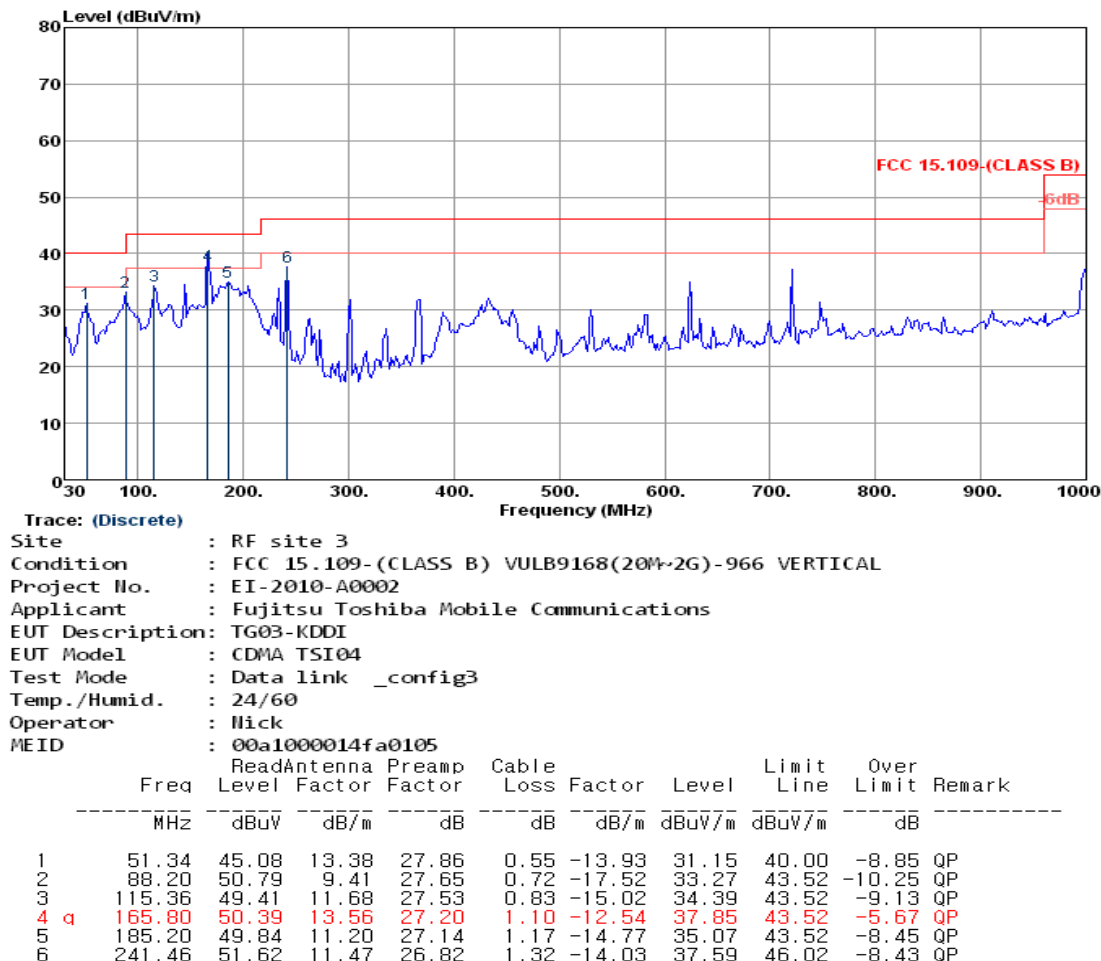


Remark :

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

Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date: Oct. 28, 2010
Test By: Nick



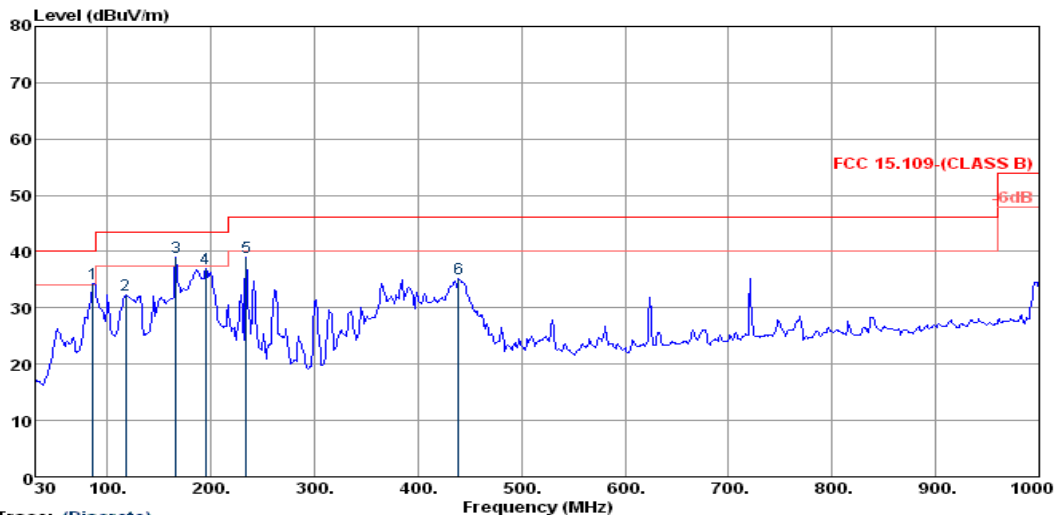
Remark :

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

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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date: Oct. 28, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20M+2G)-966 HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Data link _config3
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	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	86.26	51.94	9.38	27.65	0.72	-17.55	34.39	40.00	-5.61	QP
2	117.30	47.16	11.87	27.53	0.83	-14.83	32.33	43.52	-11.19	QP
3	165.80	51.47	13.56	27.20	1.10	-12.54	38.93	43.52	-4.59	QP
4	194.90	52.69	10.24	27.08	1.17	-15.67	37.02	43.52	-6.50	QP
5	233.70	53.32	11.31	26.86	1.23	-14.32	39.00	46.02	-7.02	QP
6	439.34	45.20	15.72	27.59	1.82	-10.05	35.15	46.02	-10.87	QP

Remark :

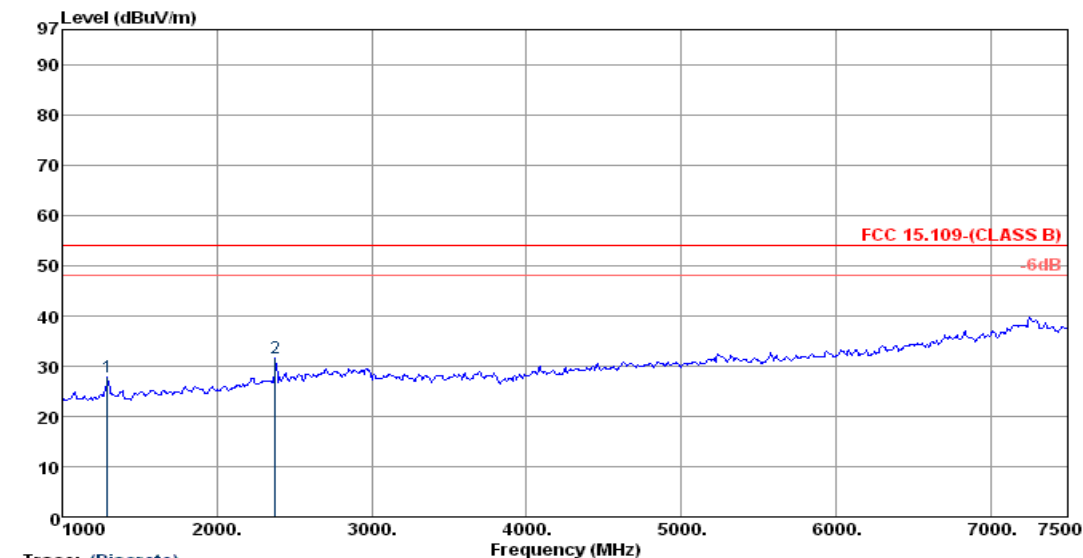
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (REC mode) _config1
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read	Antenna	Preampl	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	1292.50	32.81	24.63	32.87	3.37	-4.87	27.94	54.00	-26.06 Peak
2 p	2378.00	32.87	27.17	33.03	4.68	-1.18	31.69	54.00	-22.31 Peak

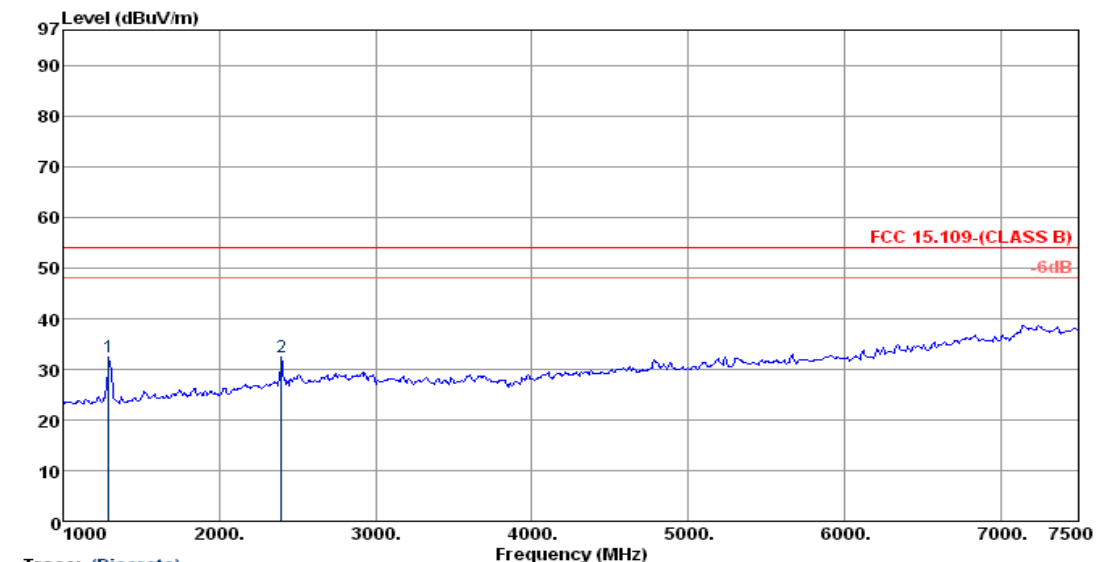
Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Oct. 28, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (REC mode) _config1
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	1292.50	37.19	24.63	32.87	3.37	-4.87	32.32	54.00	-21.68	Peak
2 p	2397.50	33.60	27.23	33.01	4.72	-1.06	32.54	54.00	-21.46	Peak

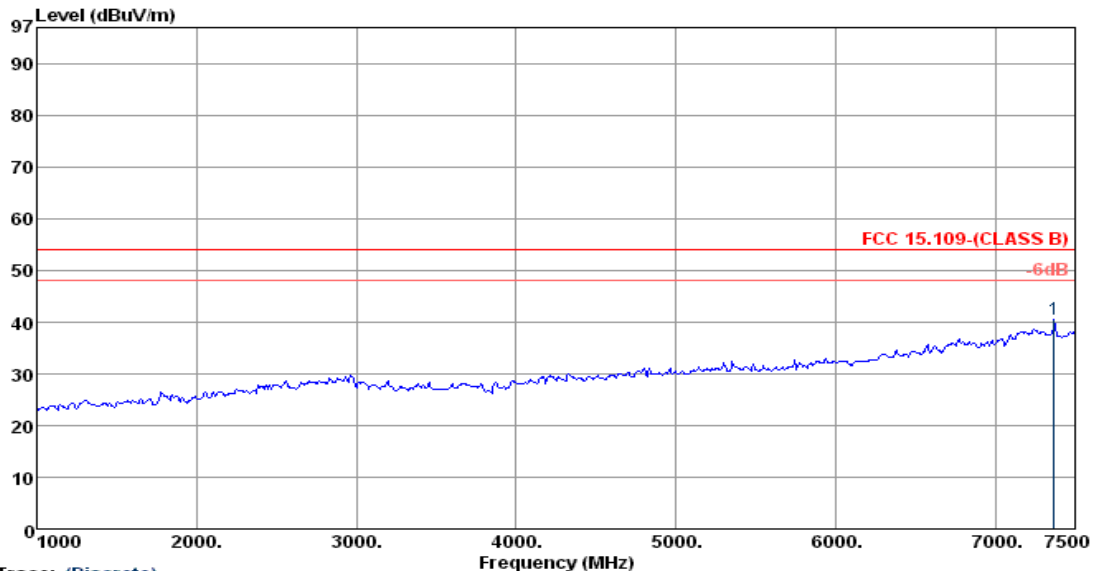
Remark :

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

Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (Play mode) _config2
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

Freq	Level	Antenna	Preamplifier	Cable	Loss	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1 p 7370.00	28.40	36.04	32.60	8.80	12.24	40.64	54.00	-13.36	Peak	

Remark :

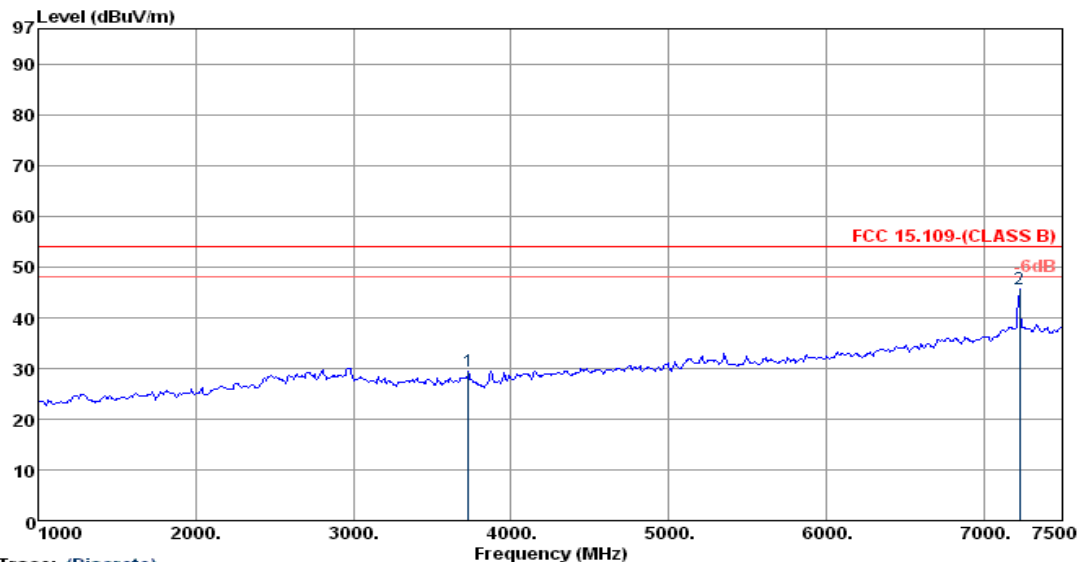
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (Play mode) _config2
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read	Antenna	Preampl	Cable	Factor	Level	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	3730.00	27.60	29.06	33.19	5.97	1.84	29.44	54.00	-24.56	Peak
2 p	7227.00	33.70	35.81	32.46	8.71	12.06	45.76	54.00	-8.24	Peak

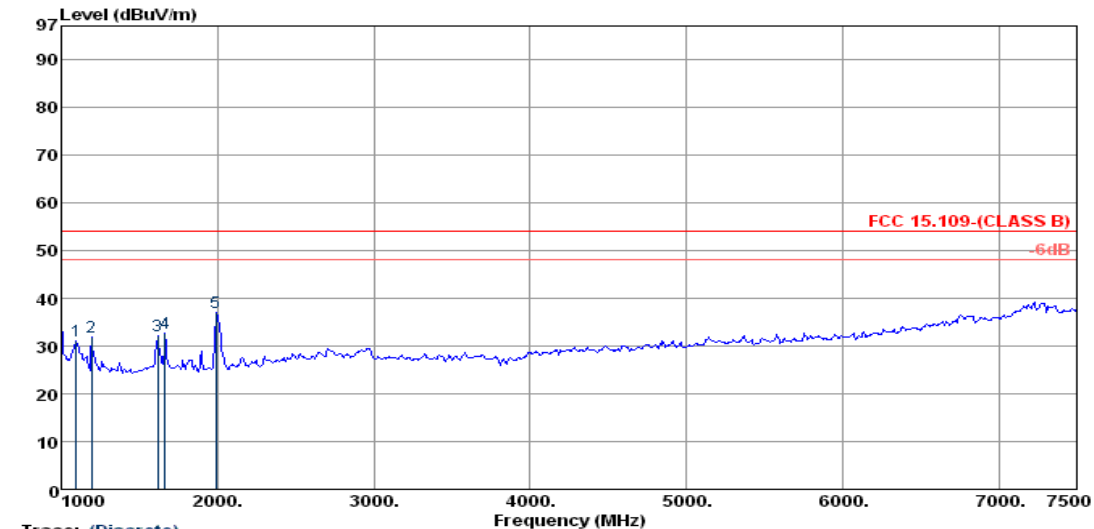
Remark :

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

Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Data link _config3
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
		dBuV			dB			dBuV/m	dB	
1	1097.50	37.06	24.38	33.36	3.13	-5.85	31.21	54.00	-22.79	Peak
2	1195.00	37.24	24.50	33.17	3.31	-5.36	31.88	54.00	-22.12	Peak
3	1617.50	36.05	25.13	32.91	3.82	-3.96	32.09	54.00	-21.91	Peak
4	1663.00	36.82	25.23	33.22	3.86	-4.13	32.69	54.00	-21.31	Peak
5 p	1988.00	39.90	25.86	33.09	4.25	-2.98	36.92	54.00	-17.08	Peak

Remark :

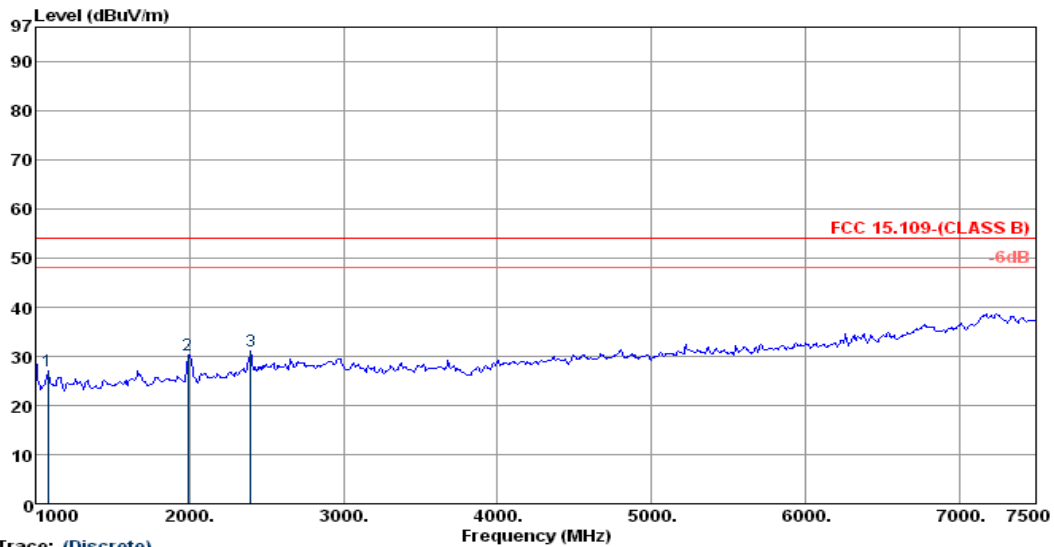
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Data link _config3
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss		dBuV/m	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	1078.00	32.87	24.36	33.22	3.08	-5.78	27.09	54.00	-26.91	Peak
2	1988.00	33.37	25.86	33.09	4.25	-2.98	30.39	54.00	-23.61	Peak
3 p	2397.50	32.18	27.23	33.01	4.72	-1.06	31.12	54.00	-22.88	Peak

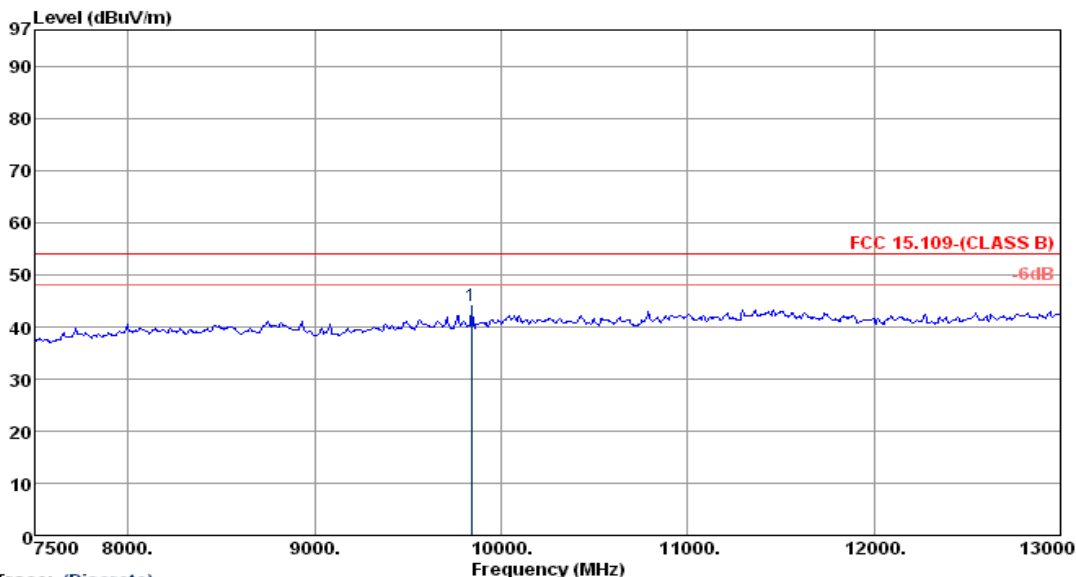
Remark :

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

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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Oct. 28, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (REC mode) _config1
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1 p	9843.00	27.68	38.05	32.13	10.34	16.26	43.94	54.00	-10.06 Peak

Remark :

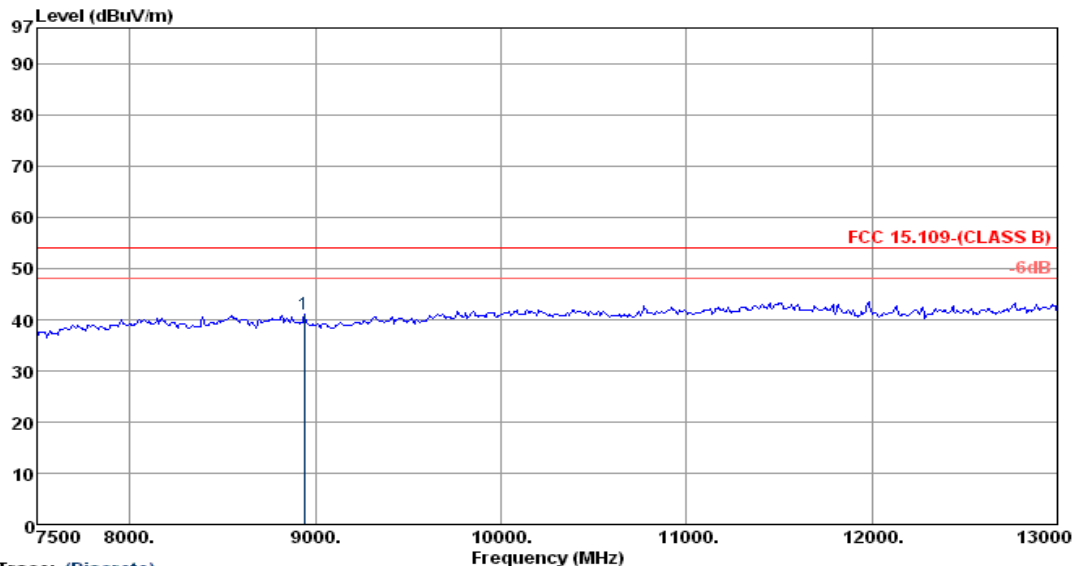
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (REC mode) _config1
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Freq	Level	ReadAntenna	Preampl	Cable	Limit	Over	
	MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
			dB/m	dB	dB	dB/m	dBuV/m	dB
1 p	8941.00	26.24	37.38	32.38	9.88	14.88	41.12	54.00 -12.88 Peak

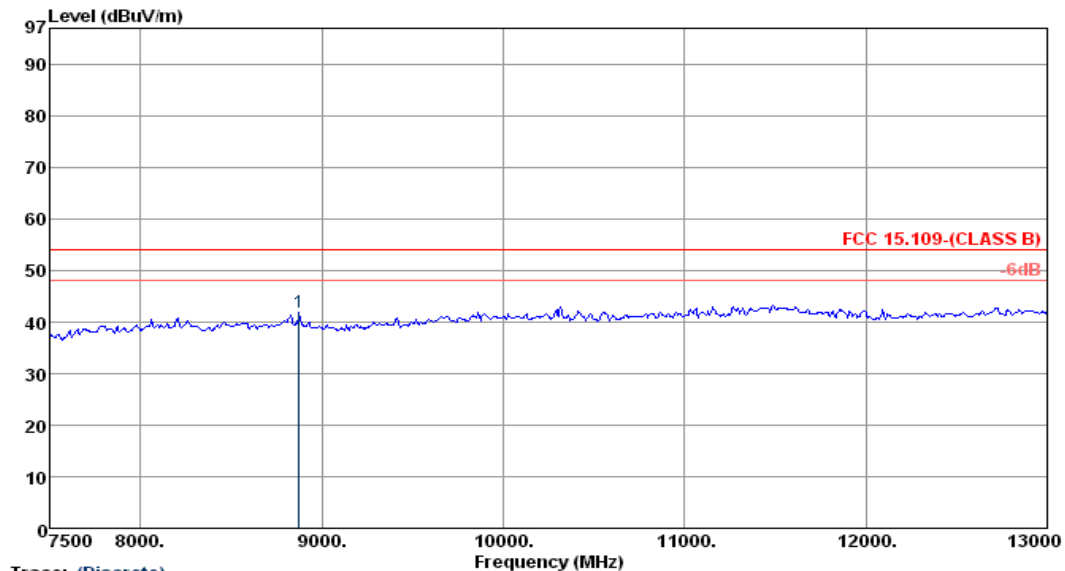
Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date: Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (Play mode) _config2
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

Freq	Read	Antenna	Preamp	Cable	Loss	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1 p 8875.00	27.05	37.34	32.30	9.84	14.88	41.93	54.00	-12.07	Peak	

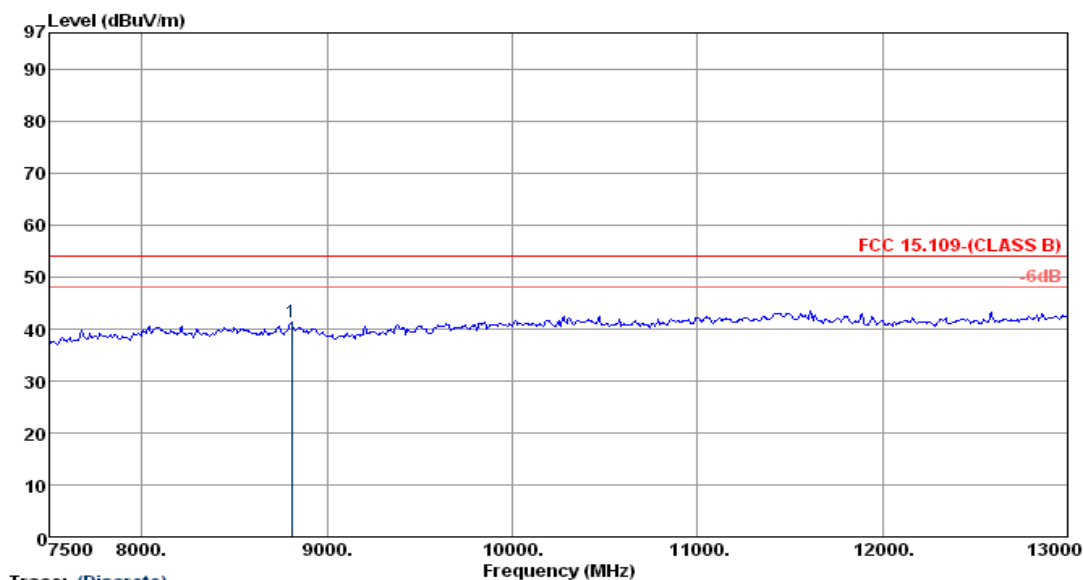
Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date: Oct. 28, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Full function (Play mode) _config2
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

Freq	Read	Antenna	Preamp	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m
1 p 8809.00	26.57	37.31	32.18	9.77	14.90	41.47	54.00 -12.53 Peak

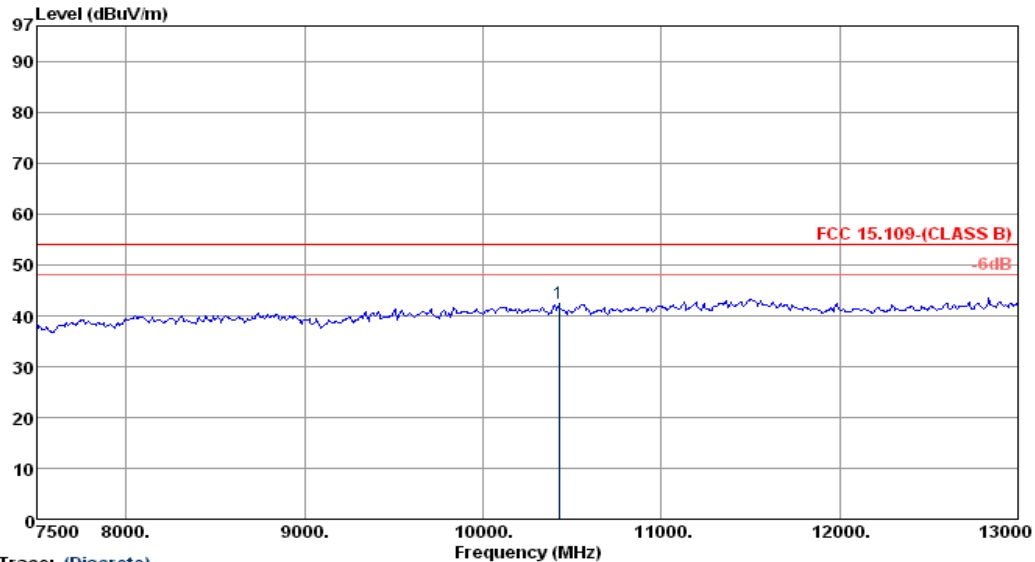
Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Data link _config3
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

Freq	Level	Factor	Factor	Cable	Loss	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1 p 10426.00	25.20	38.85	32.43	10.73	17.15	42.35	54.00	-11.65	Peak	

Remark :

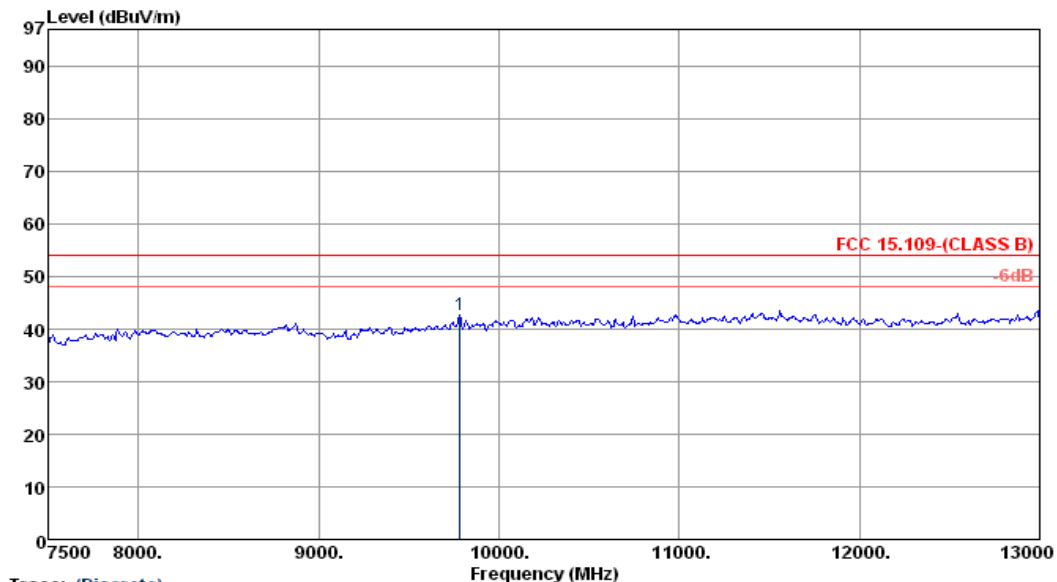
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Oct. 28, 2010

Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2010-A0002
Applicant : Fujitsu Toshiba Mobile Communications
EUT Description: TG03-KDDI
EUT Model : CDMA TSI04
Test Mode : Data link _config3
Temp./Humid. : 24/60
Operator : Nick
MEID : 00a1000014fa0105

	Read	Antenna	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
-----	-----	-----	-----	-----	-----	-----	-----	-----
1 p 9782.50	26.46	38.02	32.17	10.28	16.13	42.59	54.00	-11.41 Peak

Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz