

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Product Name:** CDMA TSX06

**FCC ID:** WVS-CR11-J02

**Report No.:** EI/2010/70007

**Issue Date:** Jul. 27, 2010

**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.  
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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

**Product Name:** CDMA TSX06

**FCC ID:** WVS-CR11-J02

**File Number:** EI/2010/70007

**Date of test:** Jul. 09, 2010 ~ Jul. 22, 2010

**Date of EUT Received:** Jul. 09, 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:

Jul. 27, 2010

Nick Lin / Engineer

Prepared By:

Eva Kao

Date:

Jul. 27, 2010

Eva Kao / Asst. Supervisor

Approved By:

Arno Hsieh

Date:

Jul. 27, 2010

Arno Hsieh / Asst. Supervisor

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## Version

Version No.	Date	Description
00	Jul. 27, 2010	Initial creation of document

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## 1. GENERAL INFORMATION

### General:

Product Name:	CDMA TSX06	
FCC ID:	WVS-CR11-J02	
Software Version:	N/A	
Hardware Version:	Ver.2.0	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	Model: TSYO1UAA; Supplier: SANYO Electric

### GSM and CDMA:

GSM and CDMA				
	Operating Frequency			Rated Power
Cellular Phone Standards Frequency Range and Power:	CDMA2000 Cellular	TX:	824.70-848.31 MHz	24.5 dBm
		RX:	869.70-893.31 MHz	
	GSM/GPRS 900, Class 10	880.2MHz – 914.8MHz		33 dBm
	GSM/GPRS 1800, Class 10	1710.2MHz-1784.8MHz		30 dBm
	GSM/GPRS 1900, Class 10	1850.2MHz – 1909.8MHz		29 dBm
IMEI:	990000256848950			

### Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
DCS 1900	3.7Vdc	230
CDMA Cellular	3.7Vdc	620

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**Bluetooth:**

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Transmit Power:	4.13 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	PIFA Antenna / antenna gain: 1.0dBi

The EUT is compliance with Bluetooth 2.1 + EDR Standard.

FeliCa Receive Frequency:	13.56MHz
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The FeliCa only support receiving function.

This test report applies for digital full function.

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

This submittal(s) (test report) is intended for **FCC ID: WVS-CR11-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. 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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## 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 in below condition:

1. Play 1kHz audio through the SHF and Speaker.
2. BT link with NB.
3. Data link with NB.

### 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.

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## 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.

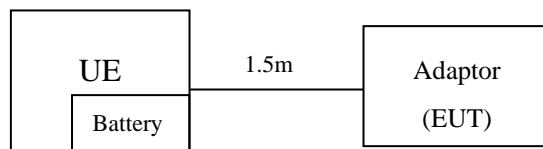
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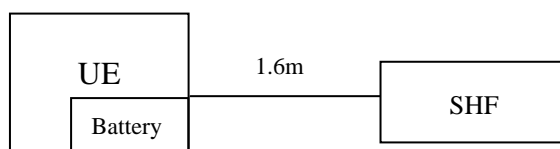
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## 2.5 Configuration of Tested System

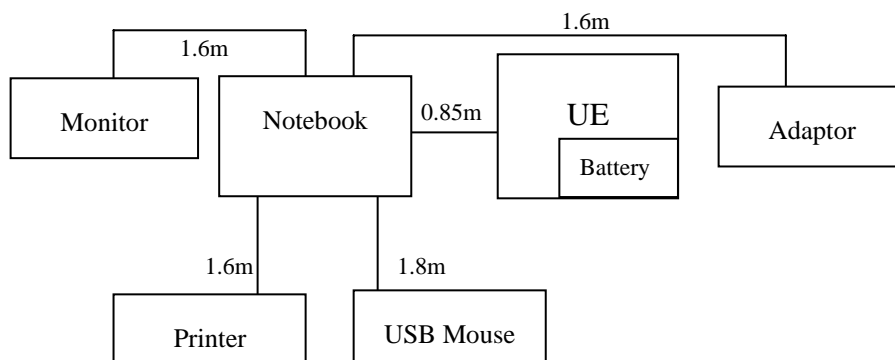
**Fig. 2-1 Configuration of Tested System (config 1, 3)**



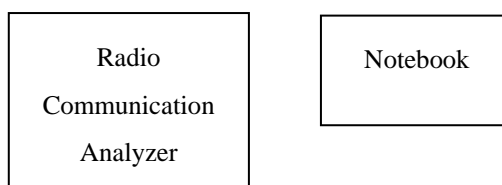
**Fig. 2-2 Configuration of Tested System (config 2, 4)**



**Fig. 2-3 Configuration of Tested System (config 5)**



**Fig. 2-5 Configuration of Tested System (Remote Side)**



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**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.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A	Un-shielded
3.	Monitor	HP	HSTND-2F02	CND7122S7B	DoC	1.6 Un-shielded	Un-shielded
4.	USB Mouse	HP	MO42KOA	0307012110	N/A	1.8m Un-shielded	N/A
5.	Printer	HP	DJ3820	CN34L181B1	N/A	1.6m, Un-Shielded	Un-shielded
6.	SHF	Hoshiden	HDH0669-010221(earphone), <u>KRJ0003-010020(mic)</u>	N/A	N/A	1.6m Un-shielded	N/A
7.	Adaptor	MITSUMI ELECTRIC	0203PQA	N/A	N/A	N/A	1.5 m Un-shielded,
8.	Data cable (USB)	Hoshiden	HPC1508-010010	N/A	N/A	0.85m 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:

TSX06	Config 1	Config 2	Config 3	Config 4	Config 5
Applicable standard (FCC )	Part 15B				
Accessories	UE + Battery + AC Adaptor	UE + Battery + SHF	UE + Battery + AC Adaptor	UE + Battery + SHF	UE + Battery + Data cable
Description	Audio		Video		Data link
radiated emission (30-1G & 1G above)	Charge + Play 1KHz	Play 1KHz	Charge + Camera REC	Camera REC	Data link
conducted emission (AC Power)	Charge + Play 1KHz	N/A	Charge + Camera REC	N/A	Data link

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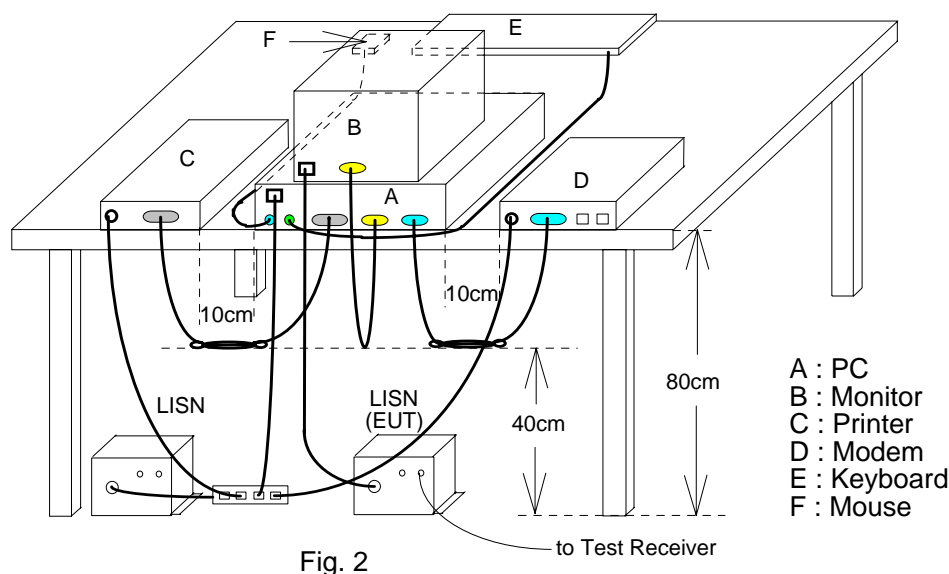
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## 5. Conducted Emissions Test

### 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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### 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	09/15/2009	09/14/2010
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.

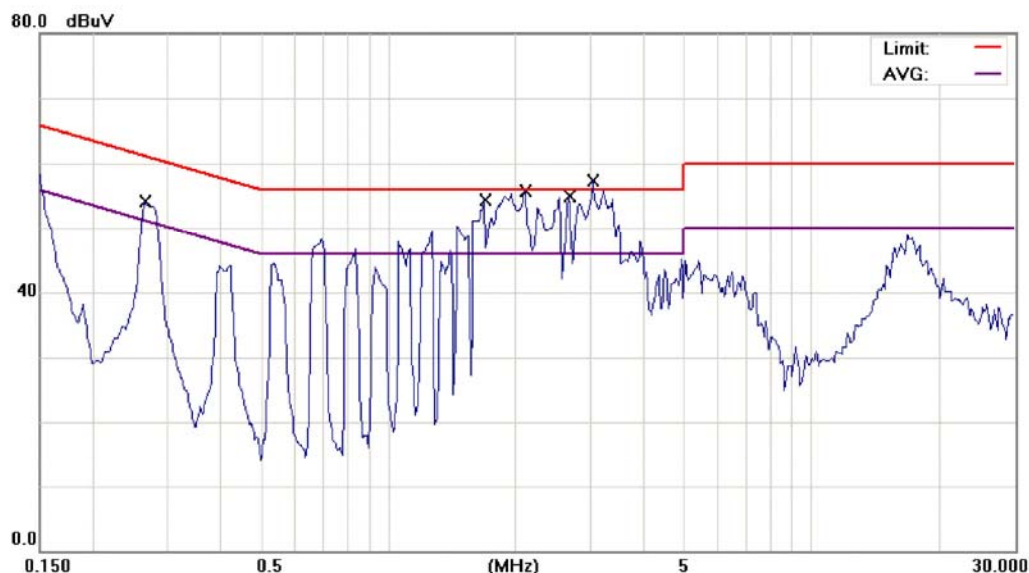
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Jul. 13, 2010
		Test By:	Nick



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	24 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	58 %
EUT:	Mobile Phone	Distance:		Air Pressure:	hpa
M/N:	KD53				
Note:	Charge + Play 1KHz_config1				
IMEI :	990000256848963				

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2657	51.09	0.12	51.21	61.25	-10.04	QP	
2	0.2657	36.57	0.12	36.69	51.25	-14.56	AVG	
3	1.6947	52.48	0.15	52.63	56.00	-3.37	QP	
4	1.6947	34.47	0.15	34.62	46.00	-11.38	AVG	
5	2.1080	51.83	0.16	51.99	56.00	-4.01	QP	
6	2.1080	33.72	0.16	33.88	46.00	-12.12	AVG	
7	2.6687	50.66	0.17	50.83	56.00	-5.17	QP	
8	2.6687	34.56	0.17	34.73	46.00	-11.27	AVG	
9	3.0450	53.90	0.18	54.08	56.00	-1.92	QP	
10	3.0450	32.28	0.18	32.46	46.00	-13.54	AVG	
11 *	3.0474	54.20	0.18	54.38	56.00	-1.62	QP	
12	3.0474	33.53	0.18	33.71	46.00	-12.29	AVG	

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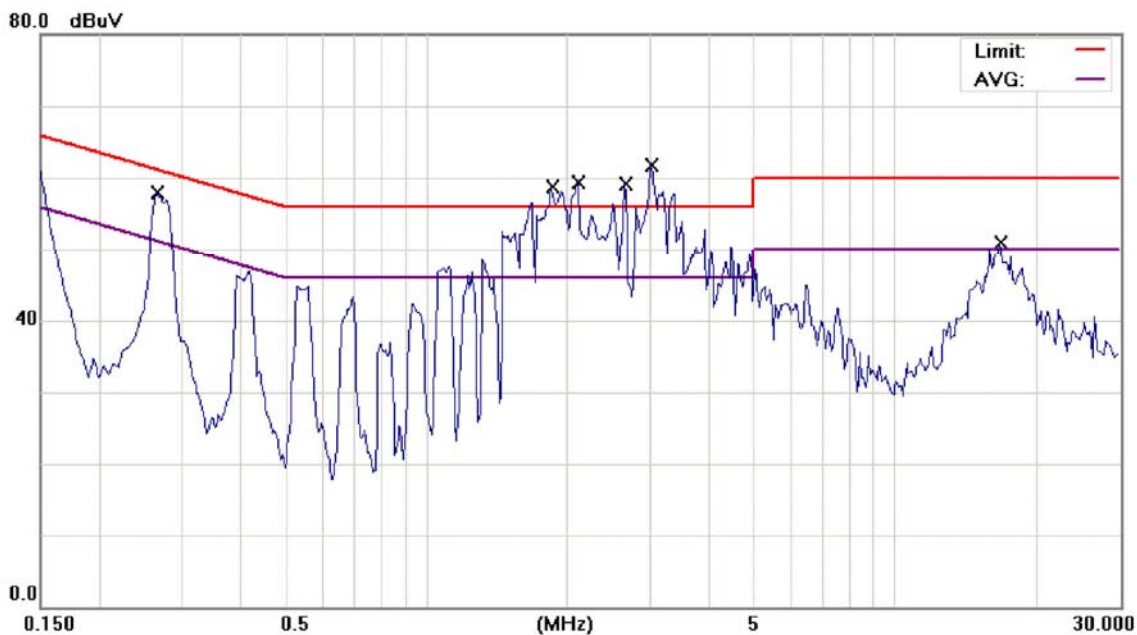
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Site SGS CONDUCTED #1  
 Limit: FCC Class B Conduction(QP)  
 EUT: Mobile Phone  
 M/N: KD53  
 Note: Charge + Play 1KHz \_config1  
 IMEI : 990000256848963

Phase: **N**  
 Power: AC 120V/60Hz  
 Distance:

Temperature: 24 °C  
 Humidity: 58 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2650	53.80	0.13	53.93	61.27	-7.34	QP	
2		0.2650	36.33	0.13	36.46	51.27	-14.81	AVG	
3		1.8528	54.51	0.16	54.67	56.00	-1.33	QP	
4		1.8528	32.66	0.16	32.82	46.00	-13.18	AVG	
5	*	2.1118	54.85	0.16	55.01	56.00	-0.99	QP	
6		2.1118	37.47	0.16	37.63	46.00	-8.37	AVG	
7		2.6566	51.41	0.17	51.58	56.00	-4.42	QP	
8		2.6566	34.90	0.17	35.07	46.00	-10.93	AVG	
9		3.0104	52.79	0.18	52.97	56.00	-3.03	QP	
10		3.0104	31.42	0.18	31.60	46.00	-14.40	AVG	
11		16.7525	40.68	0.47	41.15	60.00	-18.85	QP	
12		16.7525	28.99	0.47	29.46	50.00	-20.54	AVG	

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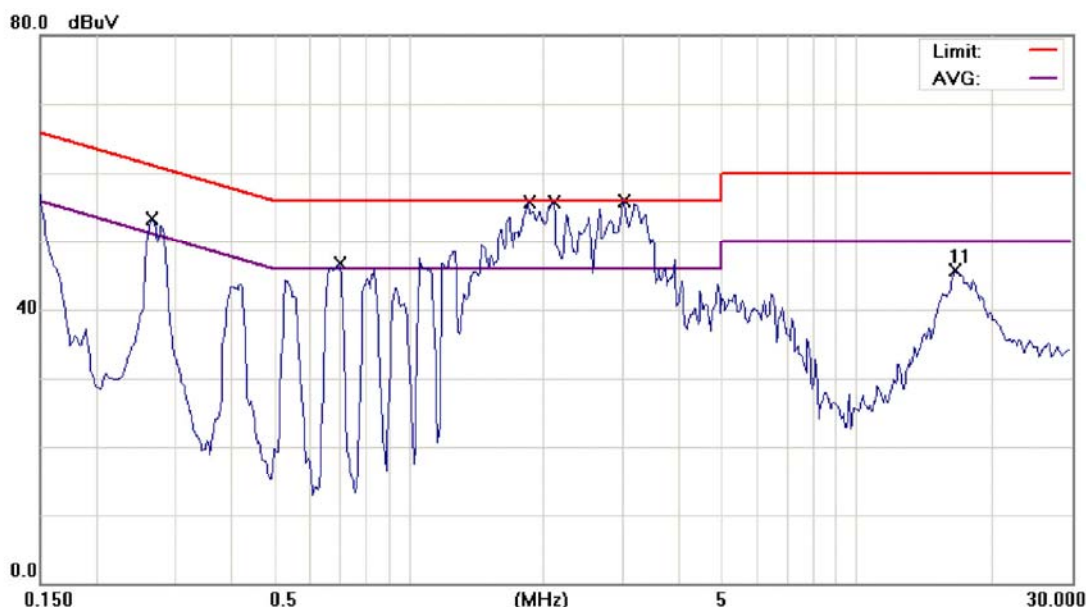
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Jul. 13, 2010
		Test By:	Nick



Site: SGS CONDUCTED #1  
 Limit: FCC Class B Conduction(QP)  
 EUT: Mobile Phone  
 M/N: KD53  
 Note: Charge+ Camera REC\_config3  
 IMEI: 990000256848963

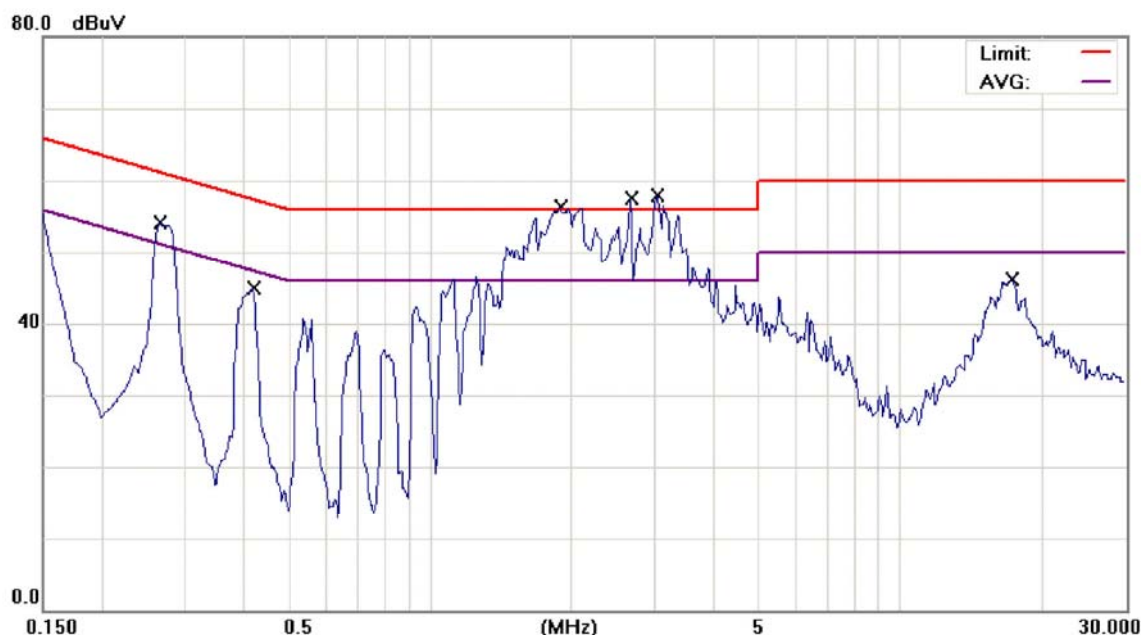
Phase: L1  
 Power: AC 120V/60Hz  
 Distance:  
 Temperature: 24 °C  
 Humidity: 58 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2643	49.97	0.12	50.09	61.30	-11.21	QP	
2		0.2643	36.51	0.12	36.63	51.30	-14.67	AVG	
3		0.6974	45.39	0.12	45.51	56.00	-10.49	QP	
4		0.6974	34.17	0.12	34.29	46.00	-11.71	AVG	
5		1.8490	51.11	0.15	51.26	56.00	-4.74	QP	
6		1.8490	31.72	0.15	31.87	46.00	-14.13	AVG	
7	*	2.1037	52.63	0.16	52.79	56.00	-3.21	QP	
8		2.1037	36.72	0.16	36.88	46.00	-9.12	AVG	
9		3.0090	50.32	0.18	50.50	56.00	-5.50	QP	
10		3.0090	35.29	0.18	35.47	46.00	-10.53	AVG	
11		16.5800	45.17	0.54	45.71	60.00	-14.29	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: 58 %

EUT: Mobile Phone

Distance:

Air Pressure: hpa

M/N: KD53

Note: Charge+ Camera REC\_config3

IMEI : 990000256848963

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2660	51.09	0.13	51.22	61.24	-10.02	QP	
2		0.2660	36.98	0.13	37.11	51.24	-14.13	AVG	
3		0.4190	42.83	0.12	42.95	57.47	-14.52	QP	
4		0.4190	32.84	0.12	32.96	47.47	-14.51	AVG	
5		1.8864	51.88	0.16	52.04	56.00	-3.96	QP	
6		1.8864	35.58	0.16	35.74	46.00	-10.26	AVG	
7		2.6611	52.15	0.17	52.32	56.00	-3.68	QP	
8		2.6611	37.09	0.17	37.26	46.00	-8.74	AVG	
9	*	3.0228	52.57	0.18	52.75	56.00	-3.25	QP	
10		3.0228	37.07	0.18	37.25	46.00	-8.75	AVG	
11		17.3067	39.54	0.46	40.00	60.00	-20.00	QP	
12		17.3067	31.56	0.46	32.02	50.00	-17.98	AVG	

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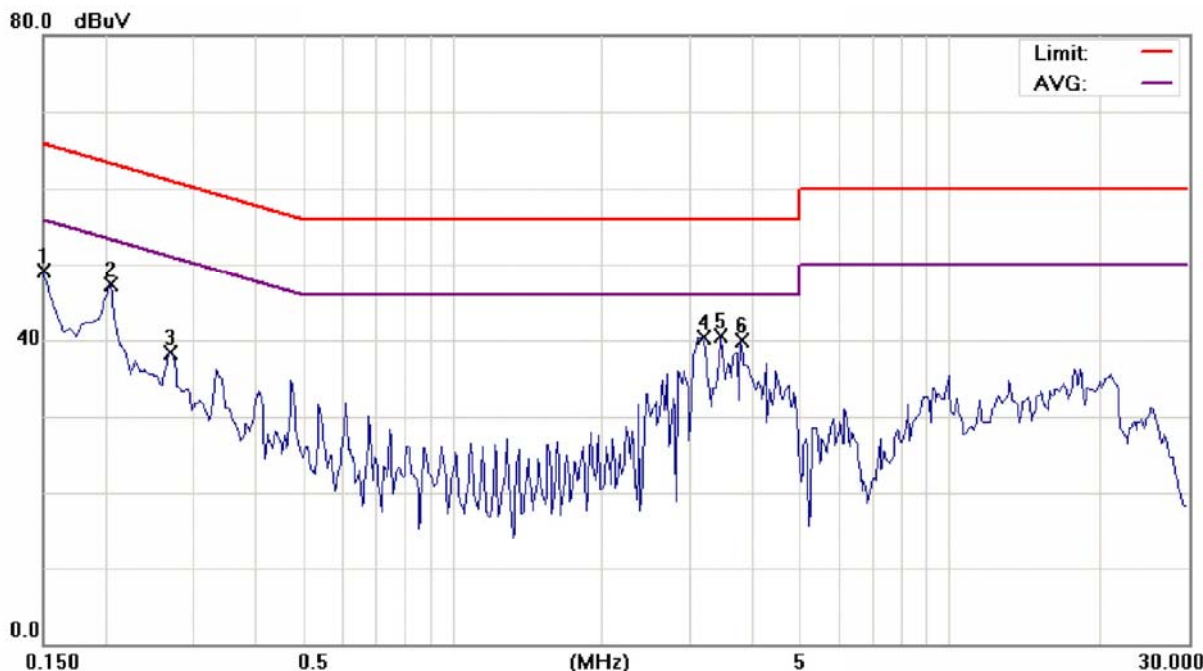
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 5	Test Date:	Jul. 13, 2010
		Test By:	Nick



Site SGS CONDUCTED #1  
 Limit: FCC Class B Conduction(QP)  
 EUT: Mobile Phone  
 M/N: KD53  
 Note: Data link\_config5  
 IMEI : 990000256848963

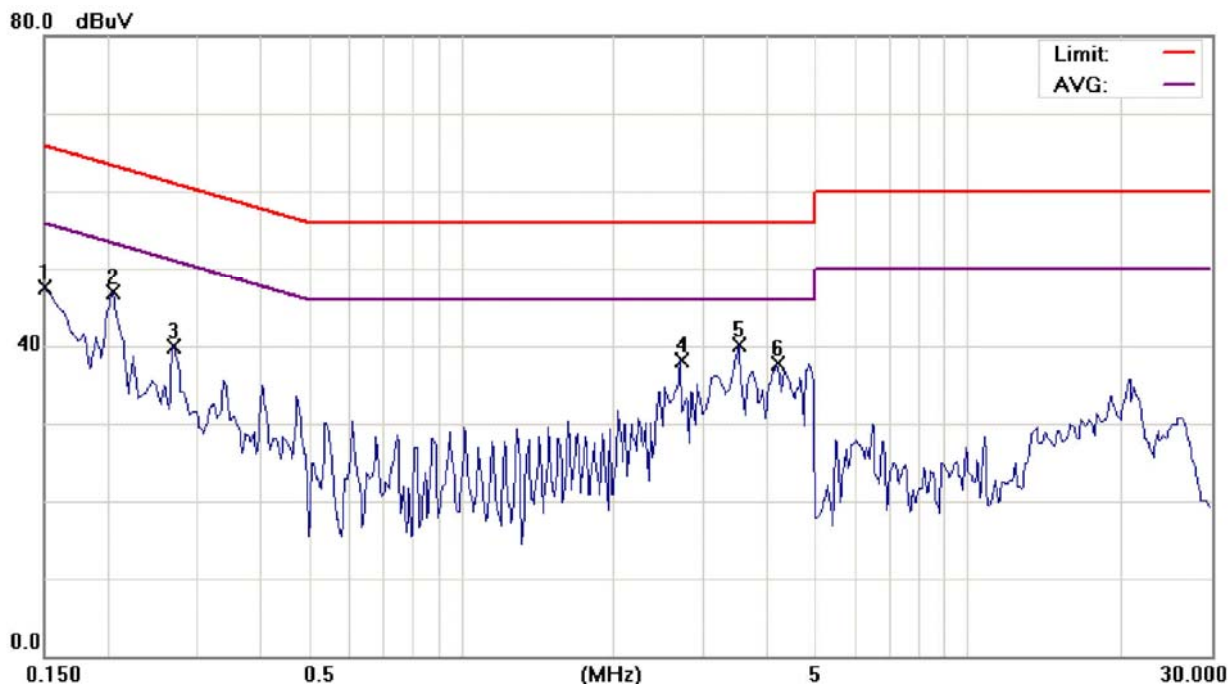
Phase: L1  
 Power: AC 120V/60Hz  
 Distance:  
 Temperature: 23 °C  
 Humidity: 58 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	48.90	0.12	49.02	66.00	-16.98	peak	
2		0.2050	47.17	0.10	47.27	63.41	-16.14	peak	
3		0.2700	38.20	0.10	38.30	61.12	-22.82	peak	
4		3.2000	40.25	0.14	40.39	56.00	-15.61	peak	
5	*	3.4700	40.28	0.14	40.42	56.00	-15.58	peak	
6		3.8000	39.69	0.15	39.84	56.00	-16.16	peak	

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Site SGS CONDUCTED #1  
 Limit: FCC Class B Conduction(QP)  
 EUT: Mobile Phone  
 M/N: KD53  
 Note: Data link\_config5  
 IMEI : 990000256848963

Phase: **N**  
 Power: AC 120V/60Hz  
 Distance:

Temperature: 23 °C  
 Humidity: 58 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	47.27	0.14	47.41	66.00	-18.59	peak	
2		0.2050	46.87	0.12	46.99	63.41	-16.42	peak	
3		0.2700	39.80	0.12	39.92	61.12	-21.20	peak	
4		2.7200	37.85	0.16	38.01	56.00	-17.99	peak	
5	*	3.5300	39.95	0.17	40.12	56.00	-15.88	peak	
6		4.2100	37.54	0.17	37.71	56.00	-18.29	peak	

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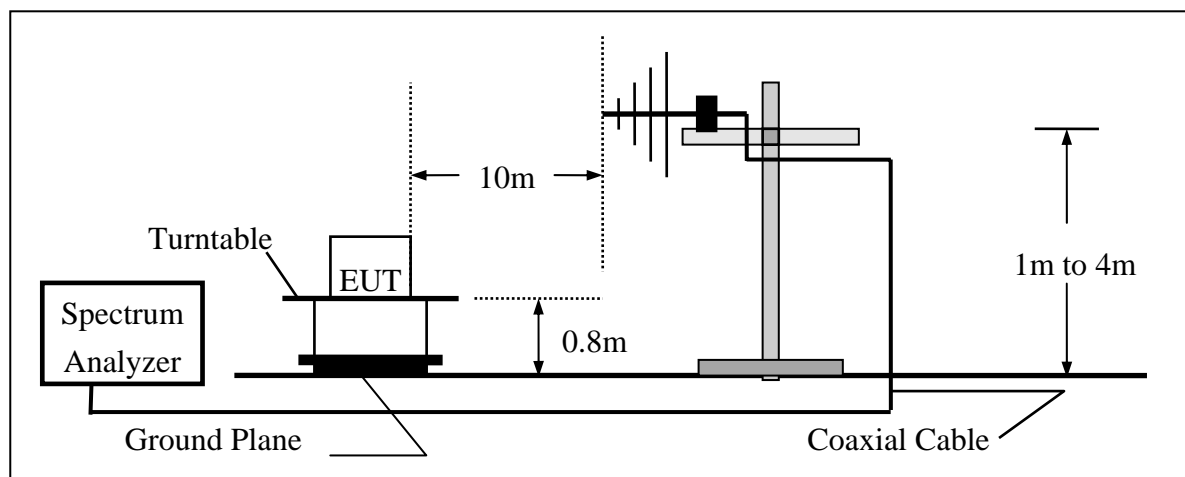
## 6. Radiated Emission Test

### 6.1 Measurement Procedure

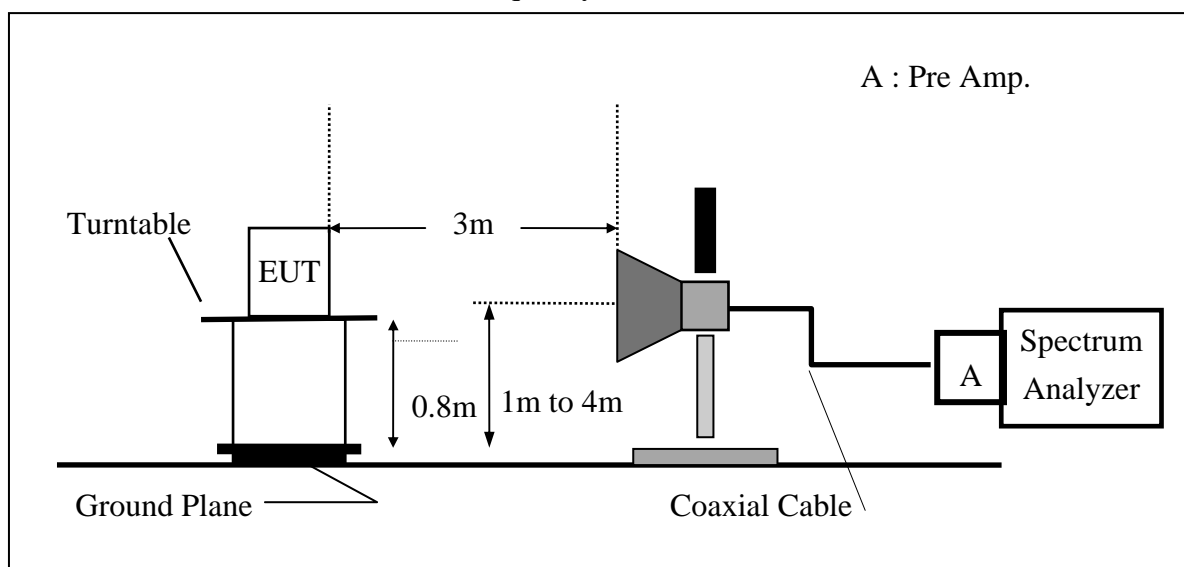
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	01/05/2010	01/04/2011
Radio Communication Analyzer	R & S	CMU200	111787	10/31/2008	10/30/2010
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	

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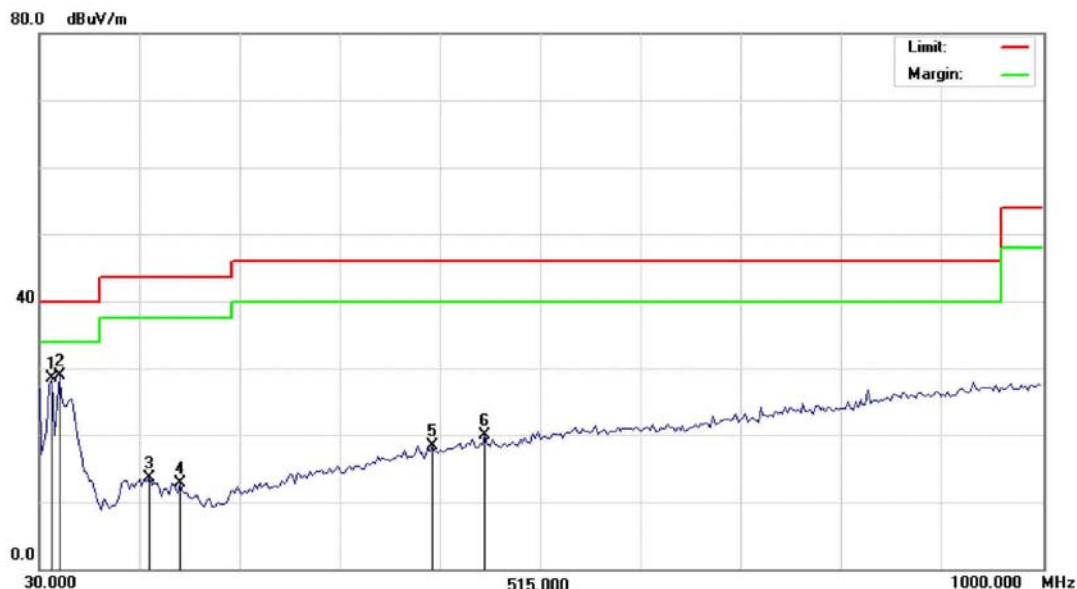
## 6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date : Jul. 13, 2010

Frequency Range: 30MHz-1GHz

Test By: Nick



Site :9\*6\*6 Chamber

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

Distance: 3m

Air Pressure: hpa

M/N: KD53

Note: Charge + Play 1KHz \_config1

IMEI: 990000256848963

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		42.1250	42.43	-14.00	28.43	40.00	-11.57	QP	
2	*	49.4000	42.38	-13.47	28.91	40.00	-11.09	QP	
3		136.7000	26.30	-12.72	13.58	43.50	-29.92	QP	
4		165.8000	24.94	-12.20	12.74	43.50	-30.76	QP	
5		410.7250	26.39	-8.10	18.29	46.00	-27.71	QP	
6		461.6500	26.73	-6.84	19.89	46.00	-26.11	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 and 1GHz to 13GHz was 1MHz

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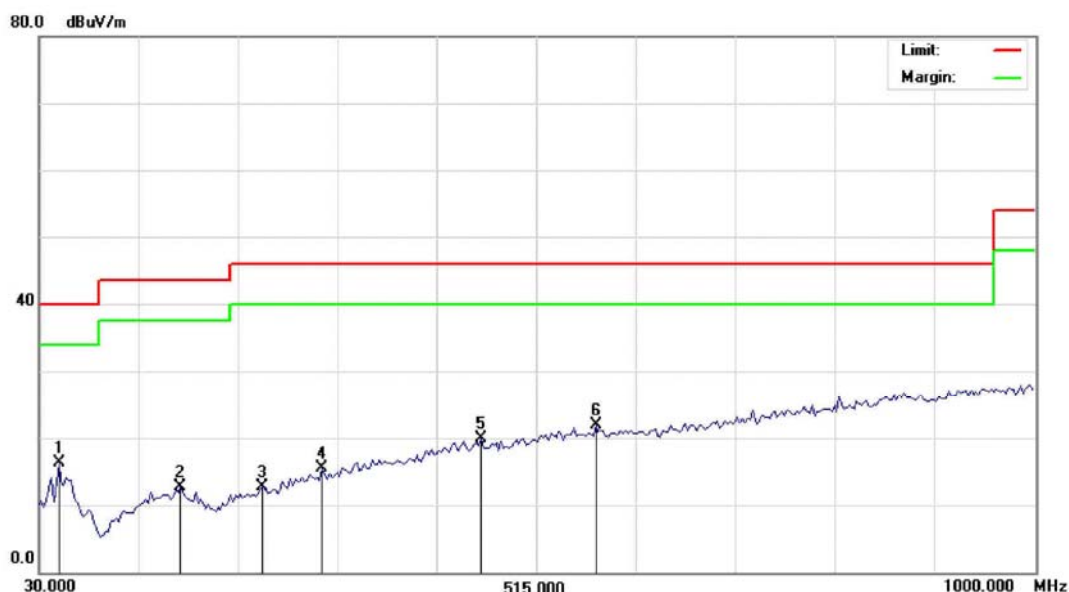
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Test Mode: Config 1  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Site : 9\*6\*6 Chamber

Limit: FCC Class B 3M Radiation

EUT: MobilePhone

M/N: KD53

Note: Charge + Play 1KHz\_config1

IMEI: 990000256848963

Polarization: Horizontal

Power: AC120V/60Hz

Distance: 3m

Temperature: 26 °C

Humidity: 60%

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	49.4000	29.70	-13.47	16.23	40.00	-23.77	QP	
2		168.2250	25.03	-12.29	12.74	43.50	-30.76	QP	
3		248.2500	25.42	-12.72	12.70	46.00	-33.30	QP	
4		306.4500	26.34	-10.92	15.42	46.00	-30.58	QP	
5		461.6500	26.68	-6.84	19.84	46.00	-26.16	QP	
6		573.2000	26.07	-4.14	21.93	46.00	-24.07	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 and 1GHz to 13GHz was 1MHz

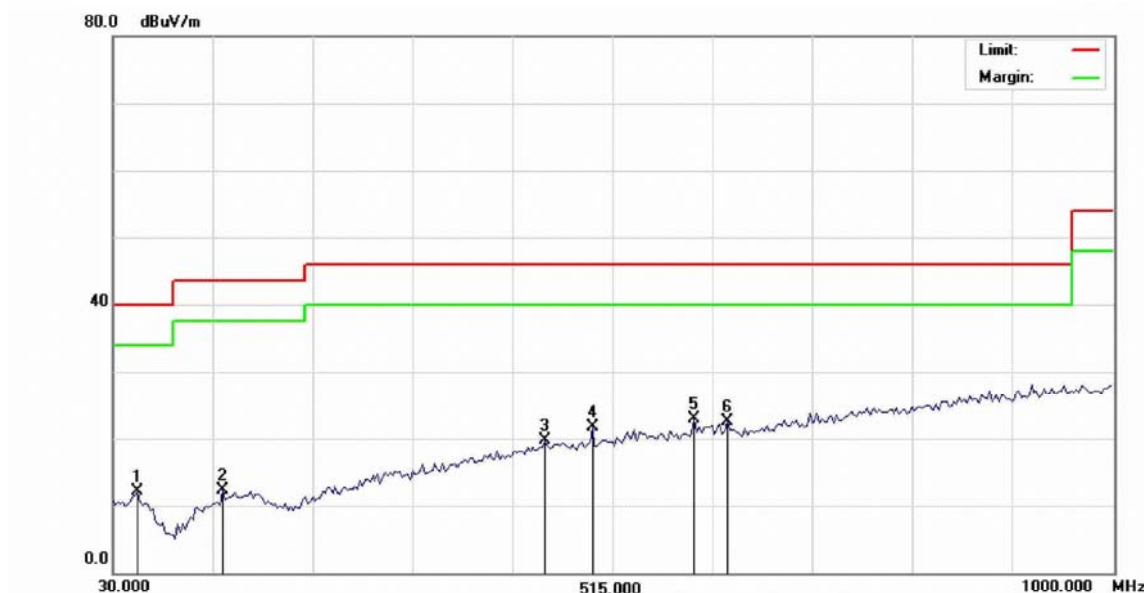
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Test Mode: Config 2  
Frequency Range: 30MHz-1GHz

Test Date: Jul. 13, 2010  
Test By: Nick



Site: 9\*6\*6 Chamber

Limit: FCC Class B 3M Radiation

EUT: MobilePhone

M/N: KD53

Note: Play1KHz\_config2

IMEI: 990000256848963

Polarization: Vertical

Power: DC3.7V

Distance: 3m

Temperature: 26 °C

Humidity: 60%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.2500	25.93	-13.84	12.09	40.00	-27.91	QP	
2		136.7000	24.99	-12.72	12.27	43.50	-31.23	QP	
3		449.5250	26.80	-7.13	19.67	46.00	-26.33	QP	
4		495.6000	27.68	-5.99	21.69	46.00	-24.31	QP	
5	*	595.0250	26.51	-3.69	22.82	46.00	-23.18	QP	
6		626.5500	25.76	-3.24	22.52	46.00	-23.48	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 and 1GHz to 13GHz was 1MHz

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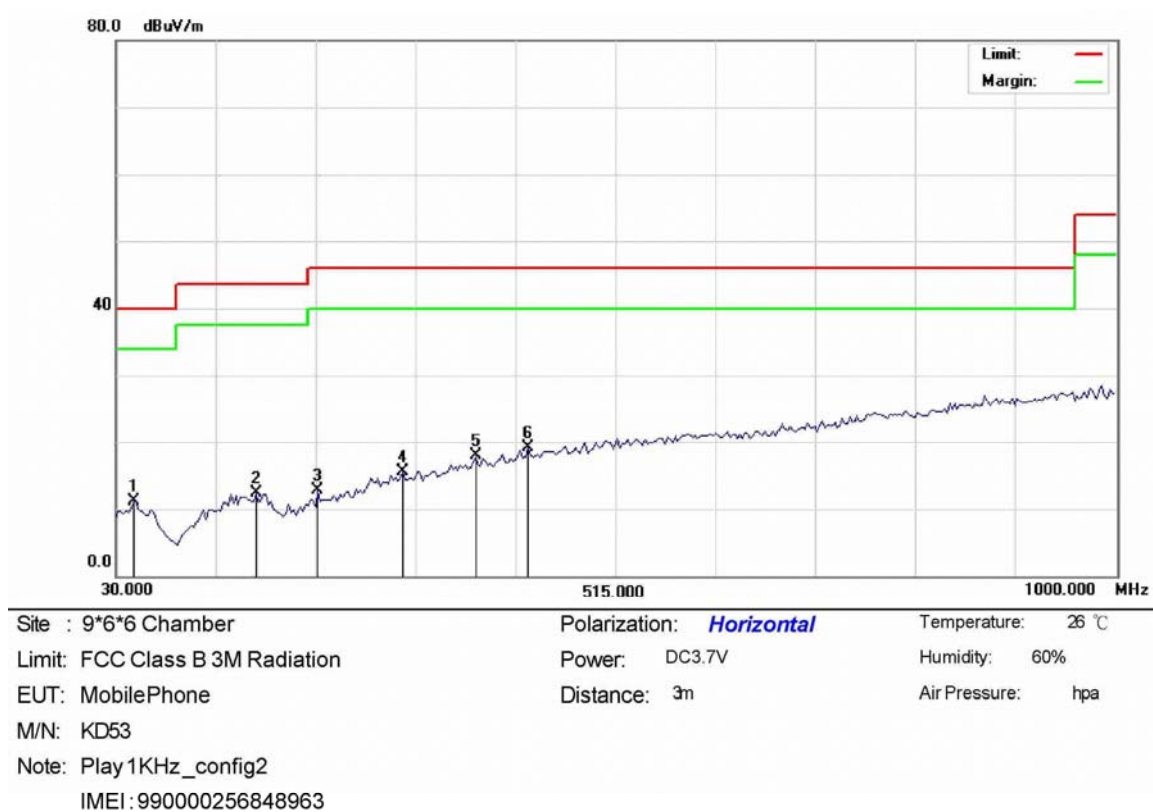
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Test Mode: Config 2  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		46.9750	24.82	-13.65	11.17	40.00	-28.83	QP	
2		165.8000	24.41	-12.20	12.21	43.50	-31.29	QP	
3		226.4250	25.99	-13.29	12.70	46.00	-33.30	QP	
4		308.8750	26.40	-10.85	15.55	46.00	-30.45	QP	
5		379.2000	26.88	-8.99	17.89	46.00	-28.11	QP	
6	*	430.1250	26.64	-7.62	19.02	46.00	-26.98	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 and 1GHz to 13GHz was 1MHz

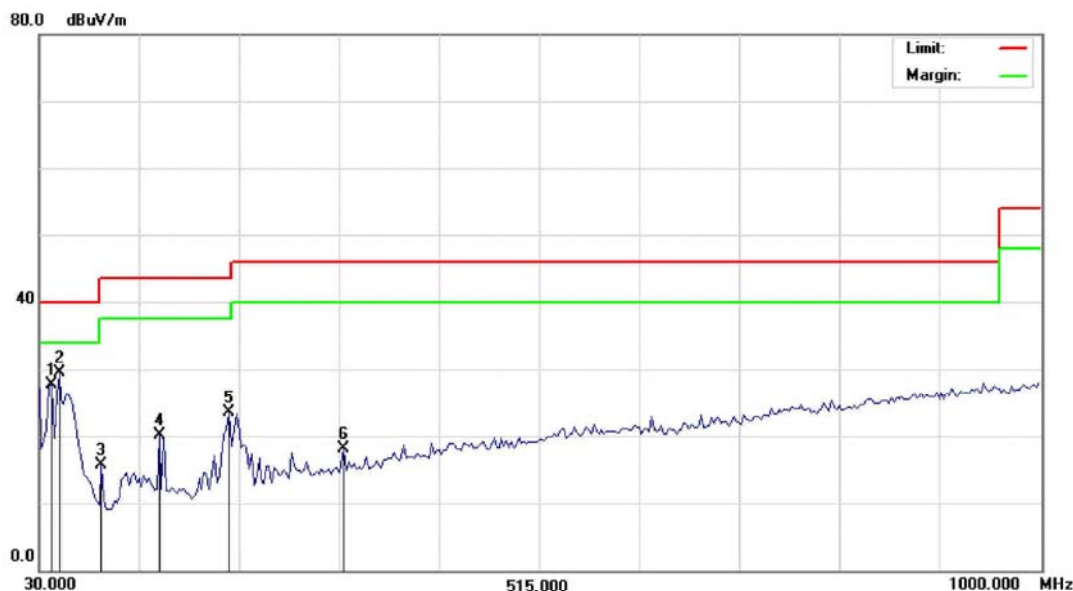
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Test Mode: Config 3  
Frequency Range: 30MHz-1GHz

Test Date: Jul. 13, 2010  
Test By: Nick



Site : 9\*6\*6 Chamber  
Limit: FCC Class B 3M Radiation  
EUT: MobilePhone  
M/N: KD53  
Note: Charge + Camera REC\_config3  
IMEI: 990000256848963

Polarization: **Vertical**  
Power: AC120V/60Hz  
Distance: 3m

Temperature: 26 °C  
Humidity: 60%  
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		42.1250	41.70	-14.00	27.70	40.00	-12.30	QP	
2	*	49.4000	43.03	-13.47	29.56	40.00	-10.44	QP	
3		90.6250	34.24	-18.51	15.73	43.50	-27.77	QP	
4		146.4000	32.34	-12.26	20.08	43.50	-23.42	QP	
5		214.3000	37.37	-13.94	23.43	43.50	-20.07	QP	
6		325.8500	28.53	-10.43	18.10	46.00	-27.90	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 and 1GHz to 13GHz was 1MHz

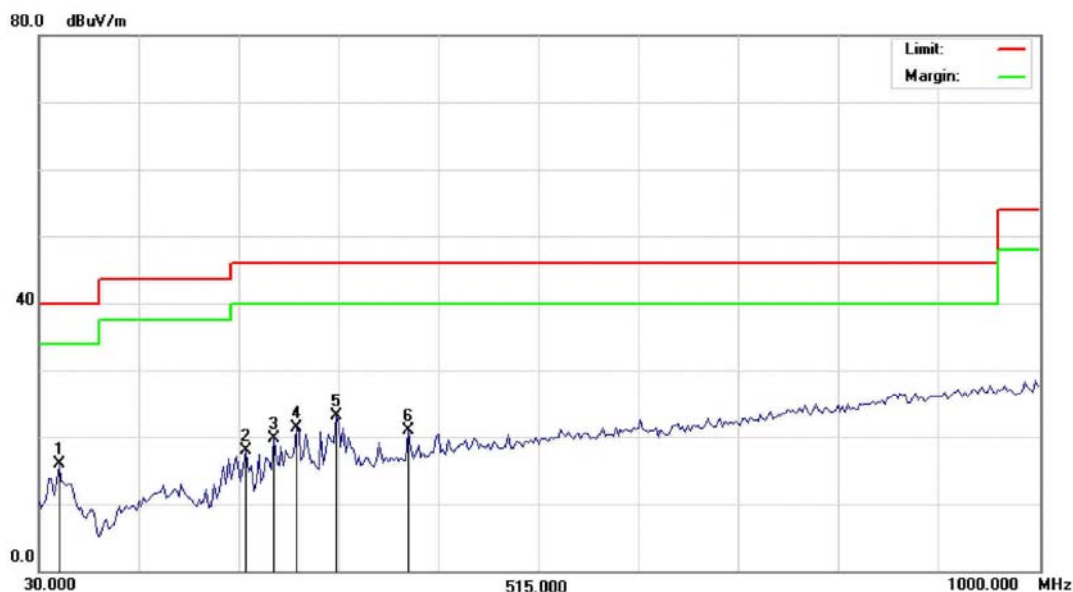
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Test Mode: Config 3  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Site : 9\*6\*6 Chamber

Limit: FCC Class B 3M Radiation

EUT: MobilePhone

M/N: KD53

Note: Charge + Camera REC\_config3

IMEI: 990000256848963

Polarization: Horizontal

Power: AC120V/60Hz

Distance: 3m

Temperature: 26 °C

Humidity: 60%

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		49.4000	29.30	-13.47	15.83	40.00	-24.17	QP	
2		231.2750	30.98	-13.16	17.82	46.00	-28.18	QP	
3		257.9500	32.16	-12.53	19.63	46.00	-26.37	QP	
4		279.7750	32.92	-11.54	21.38	46.00	-24.62	QP	
5	*	318.5750	33.62	-10.61	23.01	46.00	-22.99	QP	
6		388.9000	29.55	-8.70	20.85	46.00	-25.15	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 and 1GHz to 13GHz was 1MHz

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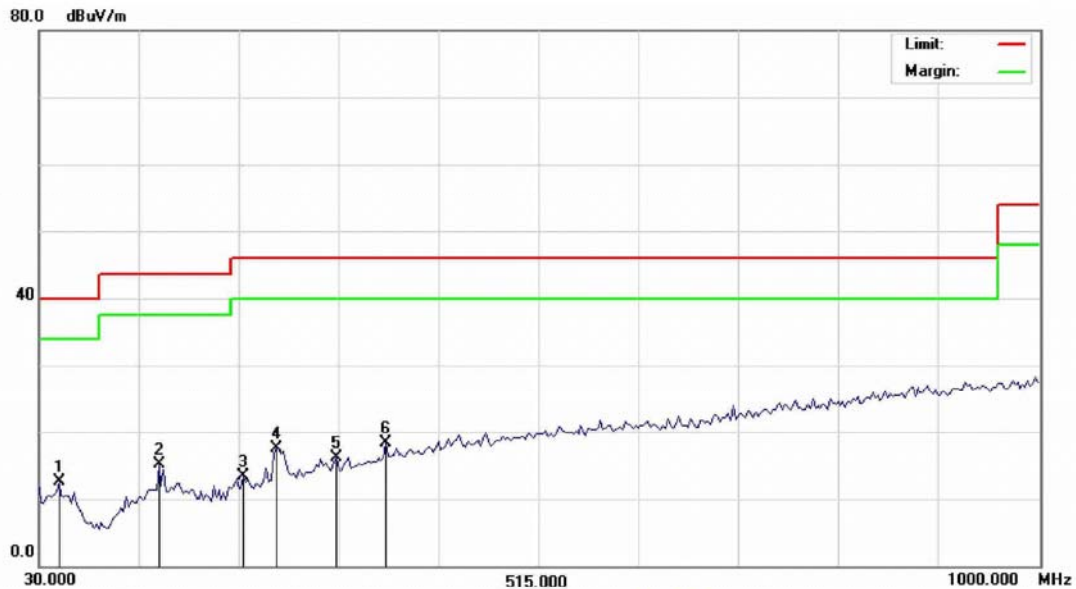
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Test Mode: Config 4  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Site : 9\*6\*6 Chamber

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Class B 3M Radiation

Power: DC3.7V

Humidity: 60%

EUT: MobilePhone

Distance: 3m

Air Pressure: hpa

M/N: KD53

Note: Camera REC\_config4

IMEI: 990000256848963

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	49.4000	25.99	-13.47	12.52	40.00	-27.48	QP	
2		146.4000	27.33	-12.26	15.07	43.50	-28.43	QP	
3		228.8500	26.49	-13.22	13.27	46.00	-32.73	QP	
4		260.3750	29.96	-12.47	17.49	46.00	-28.51	QP	
5		318.5750	26.70	-10.61	16.09	46.00	-29.91	QP	
6		367.0750	27.62	-9.34	18.28	46.00	-27.72	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 and 1GHz to 13GHz was 1MHz

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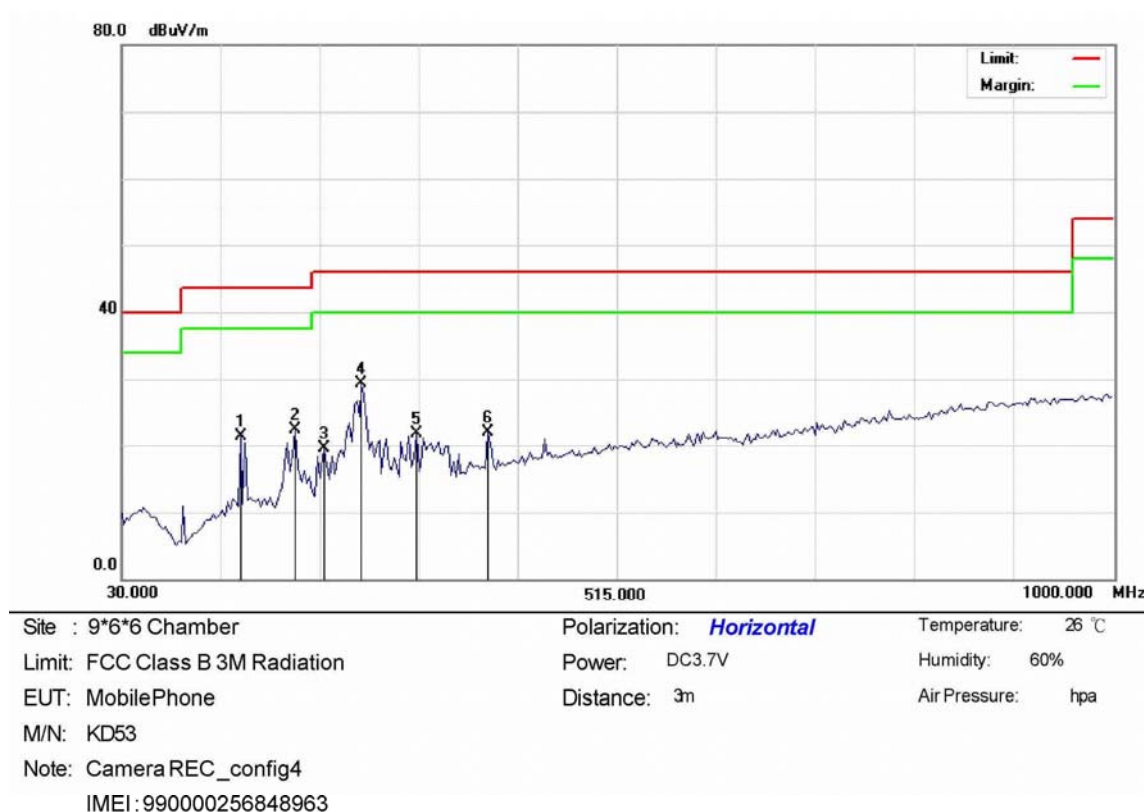
[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group



Test Mode: Config 4  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		146.4000	33.50	-12.26	21.24	43.50	-22.26	QP	
2		199.7500	37.07	-14.79	22.28	43.50	-21.22	QP	
3		228.8500	32.76	-13.22	19.54	46.00	-26.46	QP	
4	*	265.2250	41.59	-12.24	29.35	46.00	-16.65	QP	
5		318.5750	32.35	-10.61	21.74	46.00	-24.26	QP	
6		388.9000	30.53	-8.70	21.83	46.00	-24.17	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 and 1GHz to 13GHz was 1MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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台灣檢驗科技股份有限公司

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

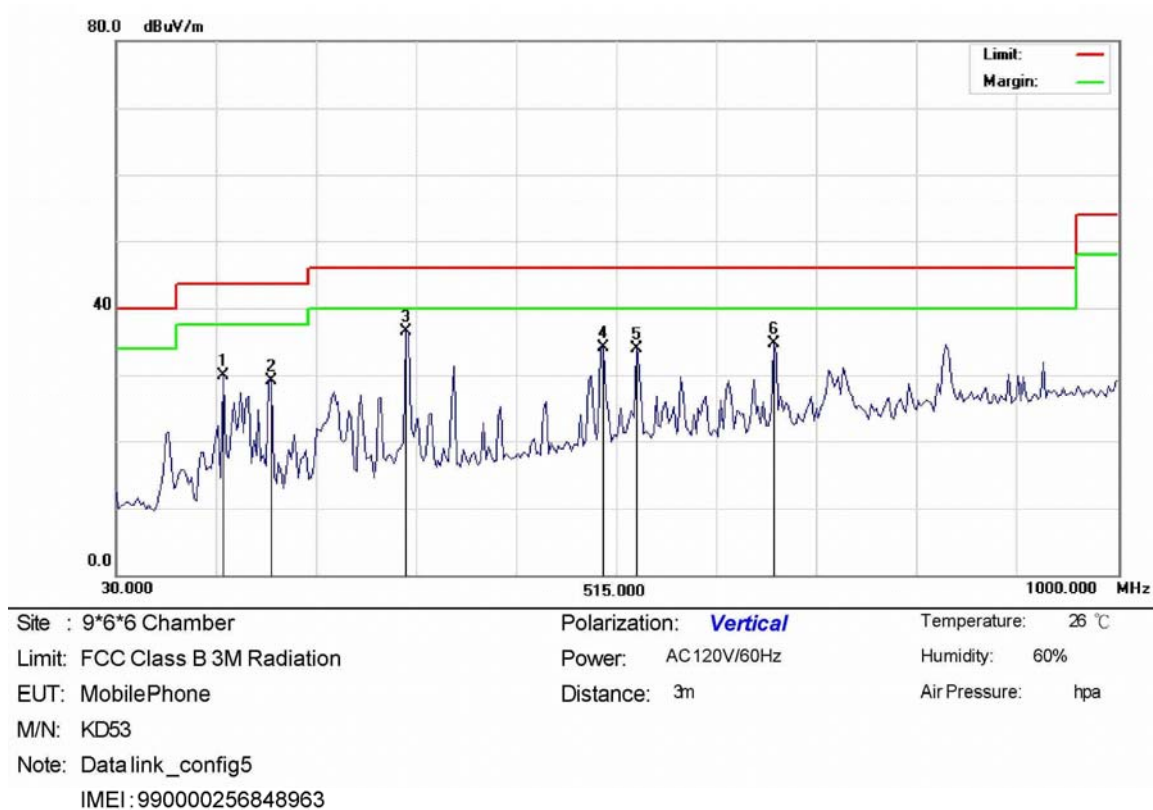
f (886-2) 2298-0488

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Member of SGS Group

Test Mode: Config 5  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		134.2750	42.83	-12.95	29.88	43.50	-13.62	QP	
2		180.3500	42.39	-13.34	29.05	43.50	-14.45	QP	
3	*	311.3000	47.25	-10.80	36.45	46.00	-9.55	QP	
4		502.8750	39.99	-5.81	34.18	46.00	-11.82	QP	
5		534.4000	38.94	-4.99	33.95	46.00	-12.05	QP	
6		667.7750	37.23	-2.60	34.63	46.00	-11.37	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 and 1GHz to 13GHz was 1MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

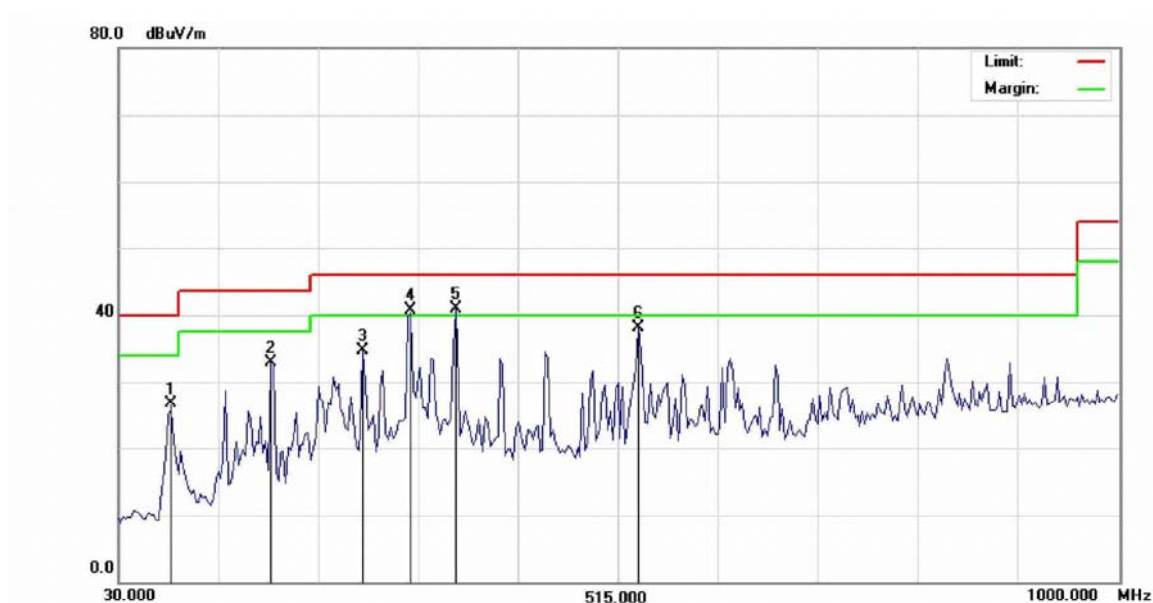
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Test Mode: Config 5  
Frequency Range: 30MHz-1GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Site : 9\*6\*6 Chamber

Limit: FCC Class B 3M Radiation

EUT: MobilePhone

M/N: KD53

Note: Data link\_config5

IMEI: 990000256848963

Polarization: Horizontal

Power: AC120V/60Hz

Distance: 3m

Temperature: 26 °C

Humidity: 60%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		80.9250	44.43	-17.63	26.80	40.00	-13.20	QP	
2		177.9250	46.09	-13.10	32.99	43.50	-10.51	QP	
3		267.6500	46.87	-12.12	34.75	46.00	-11.25	QP	
4	!	313.7250	51.50	-10.73	40.77	46.00	-5.23	QP	
5	*	357.3750	50.47	-9.62	40.85	46.00	-5.15	QP	
6		534.4000	43.14	-4.99	38.15	46.00	-7.85	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 and 1GHz to 13GHz was 1MHz

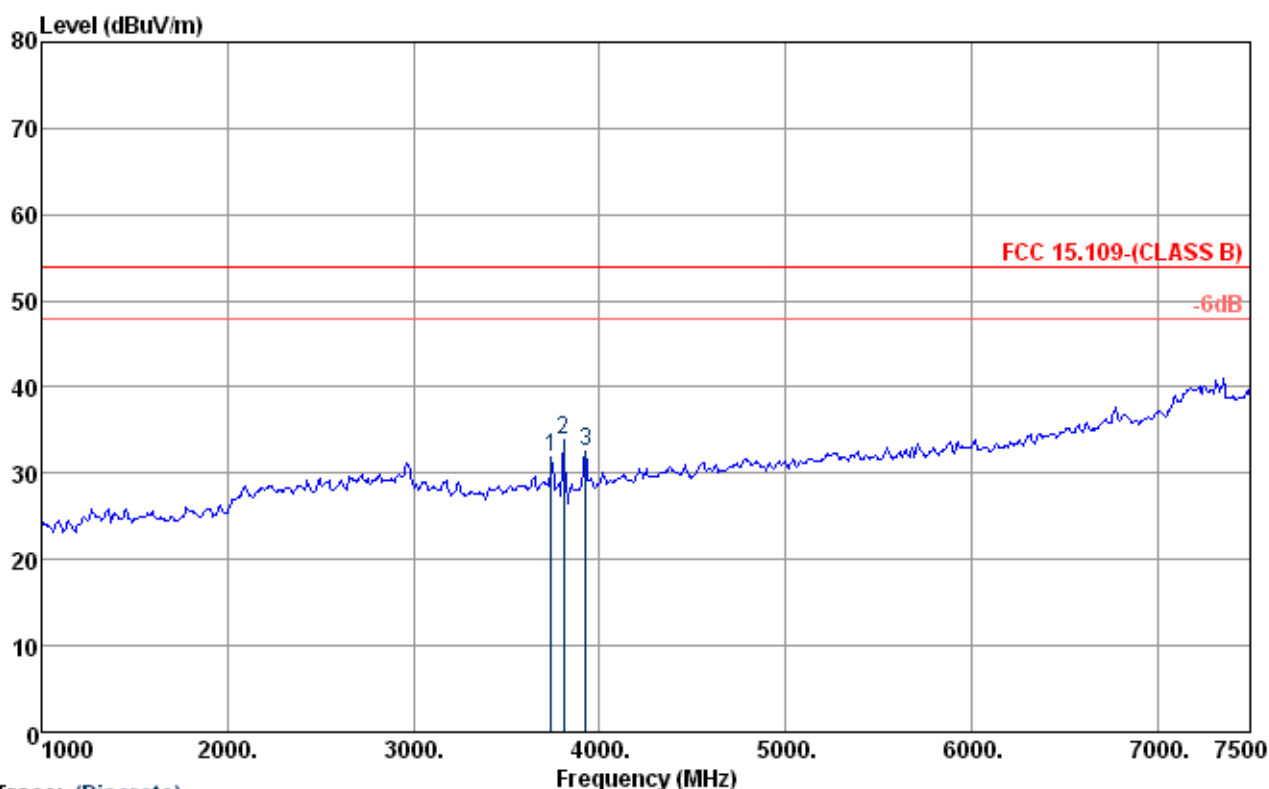
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Test Mode: Config 1  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



## Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBH49120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Play 1KHz \_config1  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

	Freq	Read	Antenna	Preamp	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	3743.00	30.19	28.96	33.16	5.98	1.78	31.97	54.00	-22.03 Peak
2 p	3808.00	31.98	29.07	33.15	6.04	1.96	33.94	54.00	-20.06 Peak
3	3925.00	30.14	29.43	33.13	6.18	2.48	32.62	54.00	-21.38 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 13GHz was 1MHz

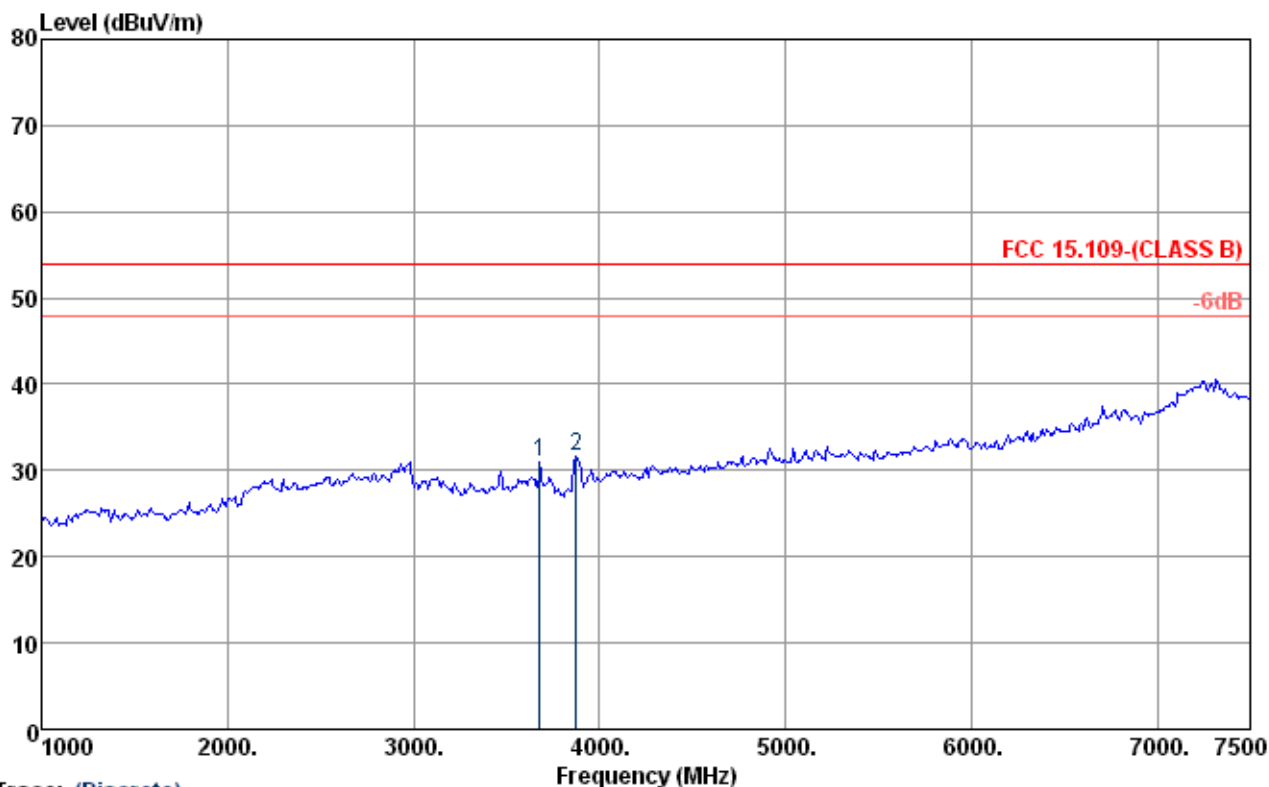
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Test Mode: Config 1  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBH49120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Play 1KHz \_config1  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

	Freq	Level	ReadAntenna	Preampl	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
			dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	3678.00	29.36	28.88	33.25	5.92	1.55	30.91	54.00	-23.09	Peak
2 p	3873.00	29.48	29.27	33.14	6.12	2.25	31.73	54.00	-22.27	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 13GHz was 1MHz

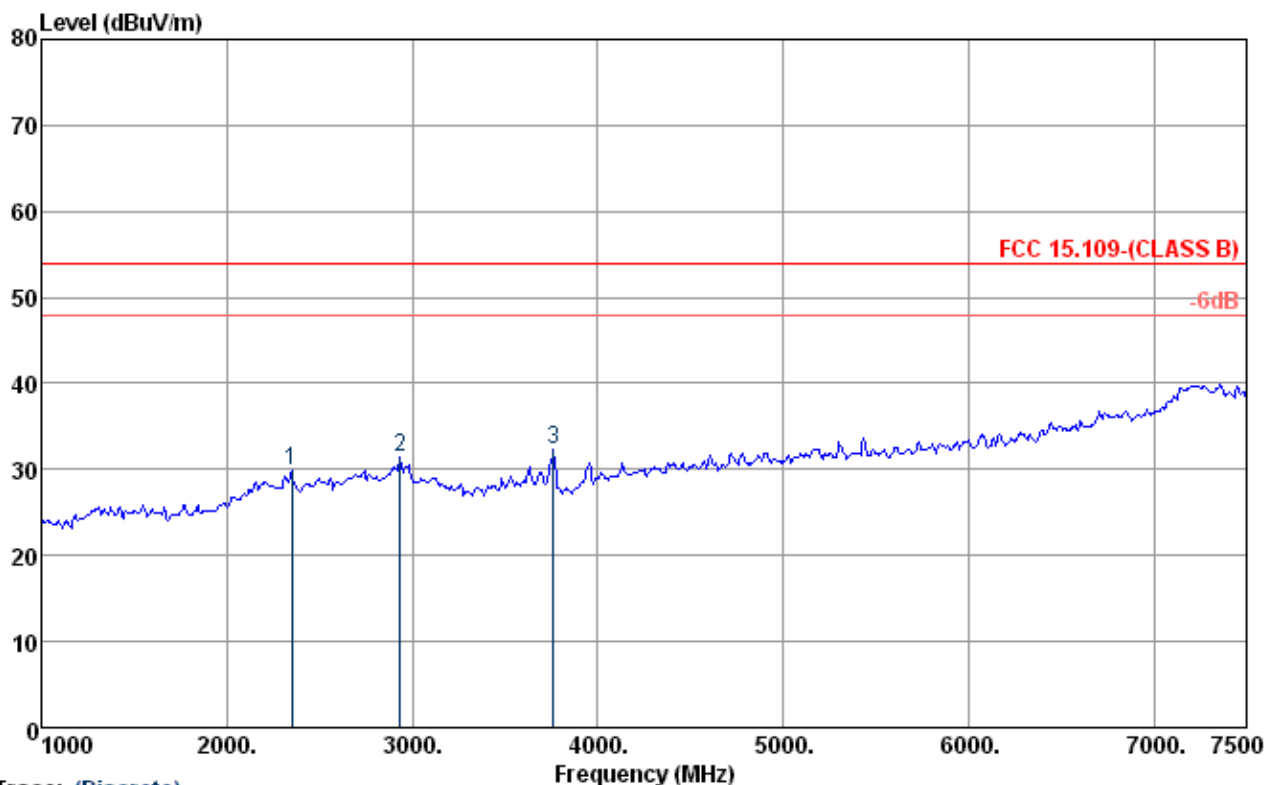
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Test Mode: Config 2  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



#### Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Play 1KHz \_config2  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2352.00	30.59	27.68	33.04	4.65	-0.71	29.88	54.00	-24.12 Peak
2	2937.00	30.79	28.09	32.74	5.18	0.53	31.32	54.00	-22.68 Peak
3 p	3762.50	30.44	28.99	33.16	6.01	1.84	32.28	54.00	-21.72 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 13GHz was 1MHz

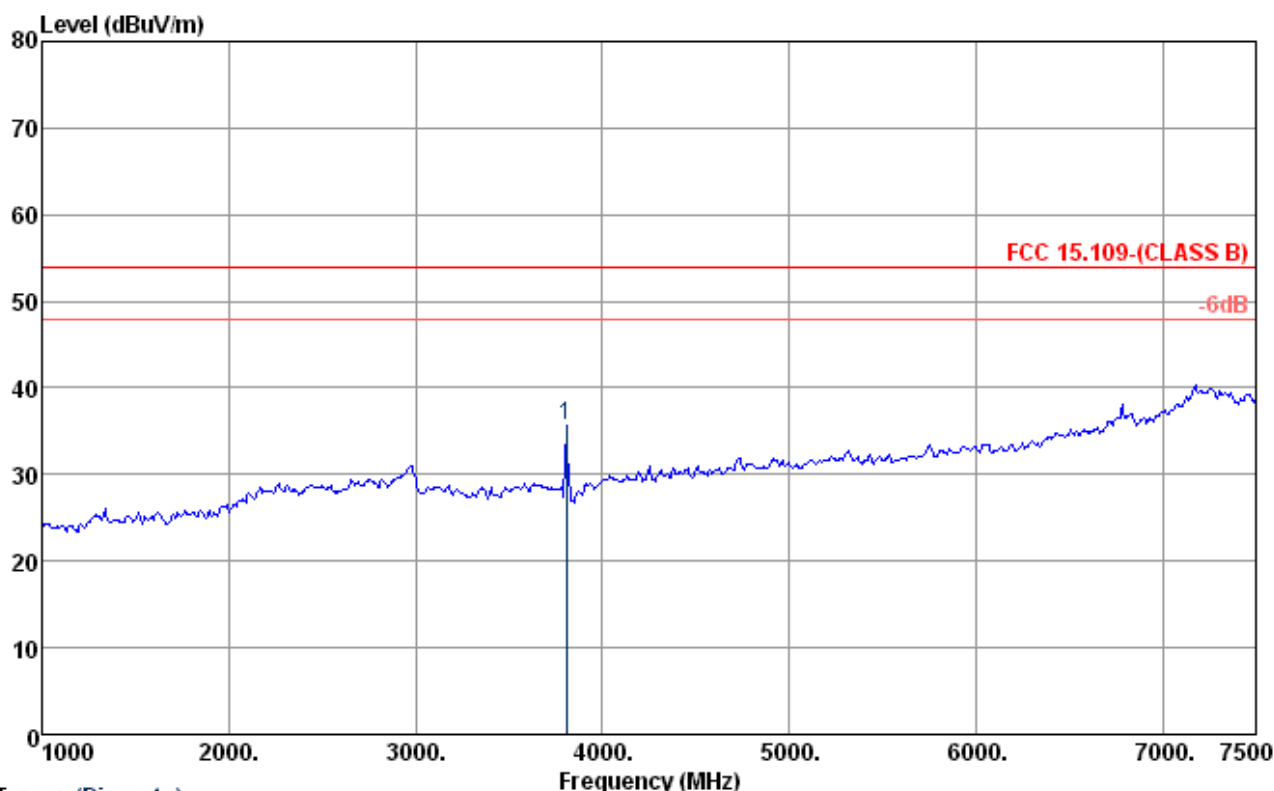
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Test Mode: Config 2  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick

**Trace: (Discrete)**

Site : RF site 3  
Condition : FCC 15.109- (CLASS B) BBHA9120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Play 1KHz \_config2  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	Factor	Preamp	Cable	Loss	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1 p 3808.00	33.62	29.07	33.15	6.04	1.96	35.58	54.00	-18.42	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 13GHz was 1MHz

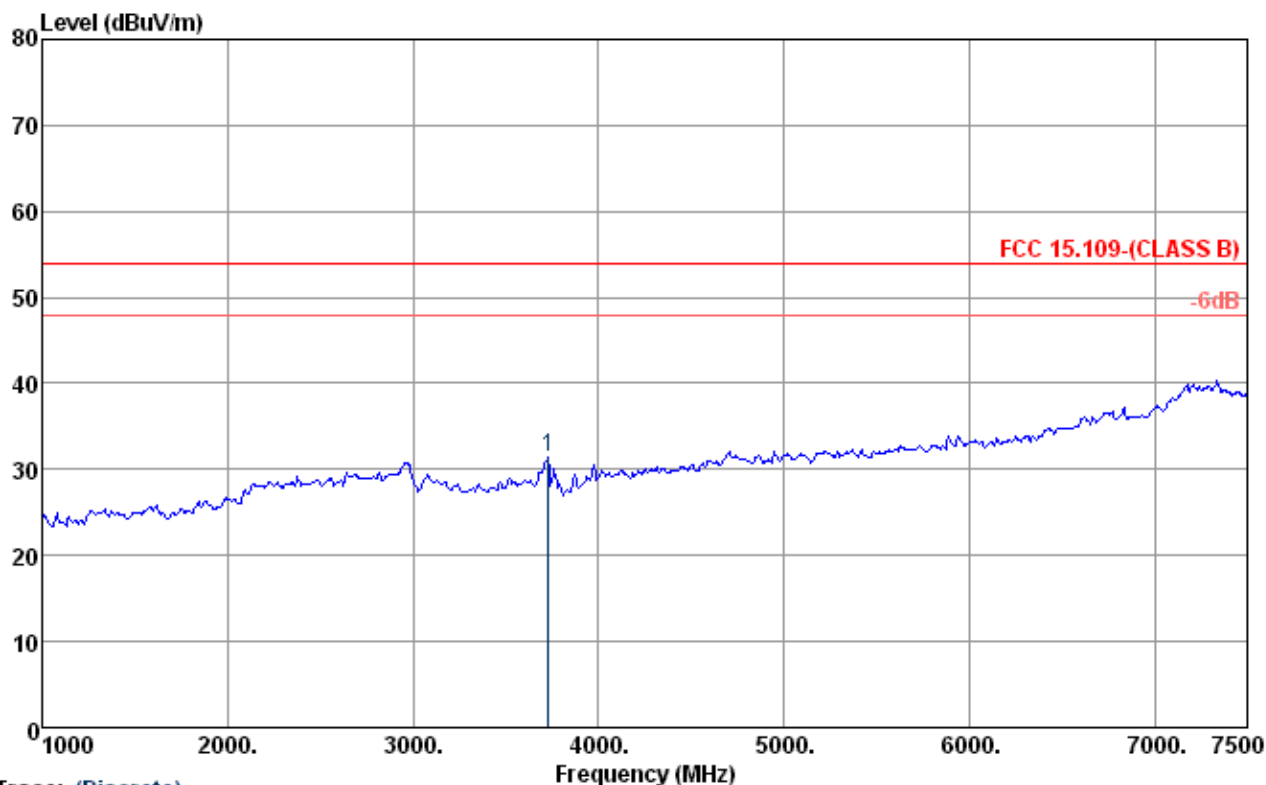
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Test Mode: Config 3  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Camera REC \_config3  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	ReadAntenna	Preampl	Cable	Limit	Over	
MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p 3730.00	29.62	28.96	33.19	5.97	1.74	31.36	54.00 -22.64 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 13GHz was 1MHz

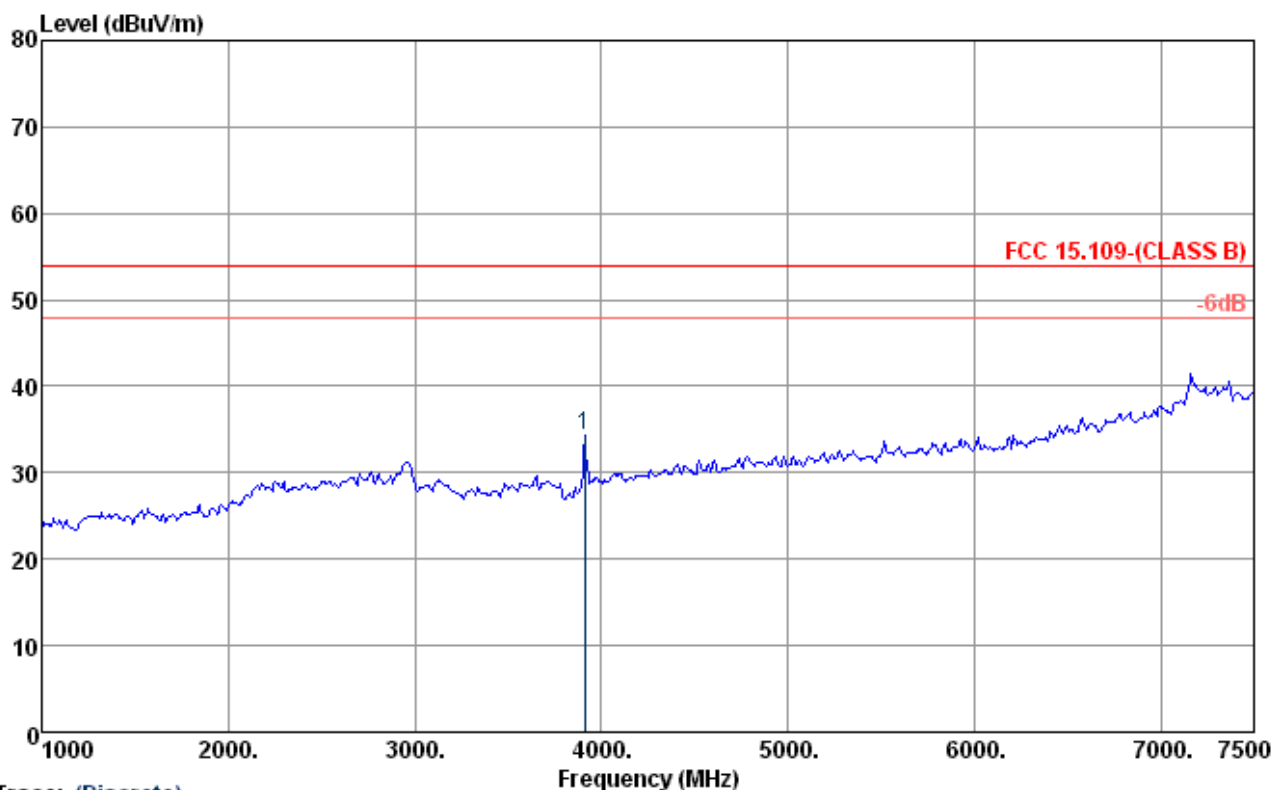
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Test Mode: Config 3  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



### Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Camera REC \_config3  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	Factor	Factor	Cable	Limit	Over	
MHz	dBuV	dB/m	dB	Loss	Line	Limit	Remark
				Factor			
				dB	dB/m	dBuV/m	dB
1 p 3912.00	31.82	29.37	33.13	6.15	2.39	34.21	54.00 -19.79 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 13GHz was 1MHz

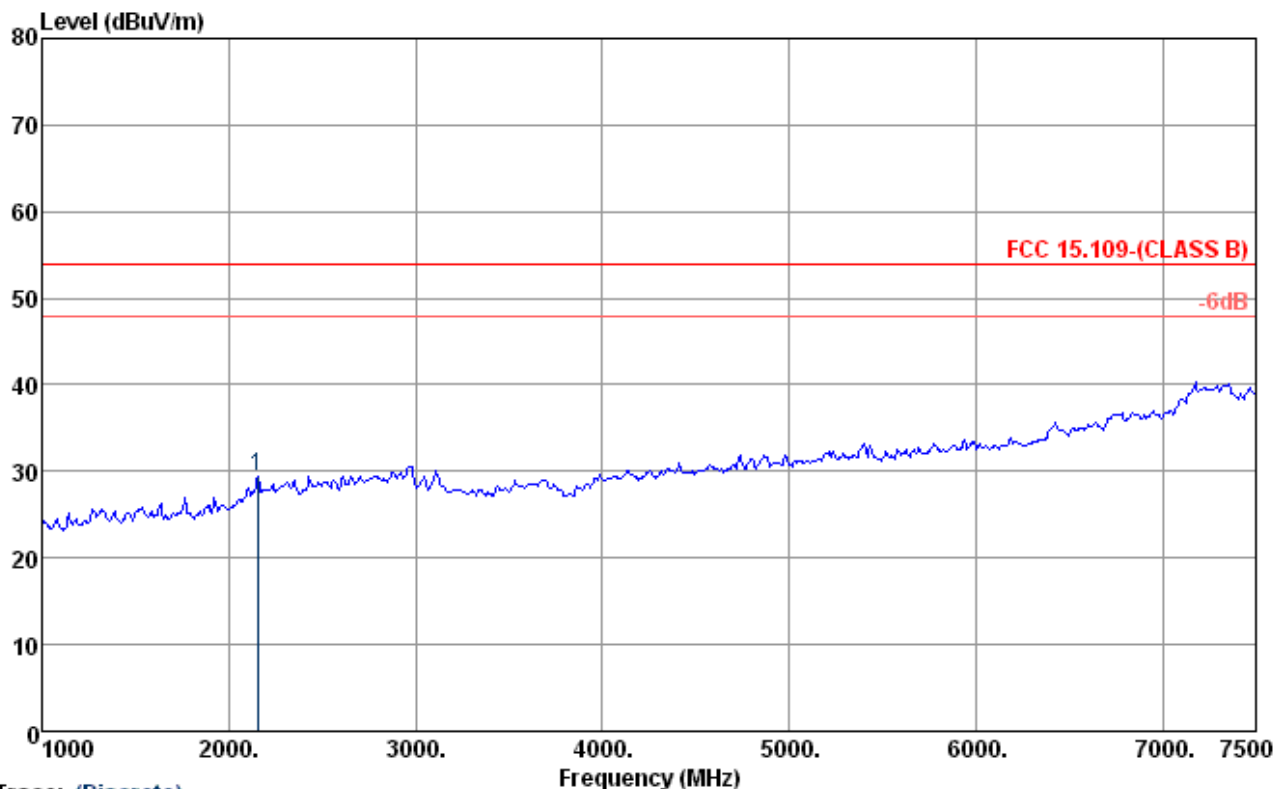
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Test Mode: Config 4  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick

**Trace: (Discrete)**

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Camera REC \_config4  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	Antenna	Preamplifier	Cable	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 p 2157.00	30.49	27.49	32.95	4.42	-1.04	29.45	54.00 -24.55 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 13GHz was 1MHz

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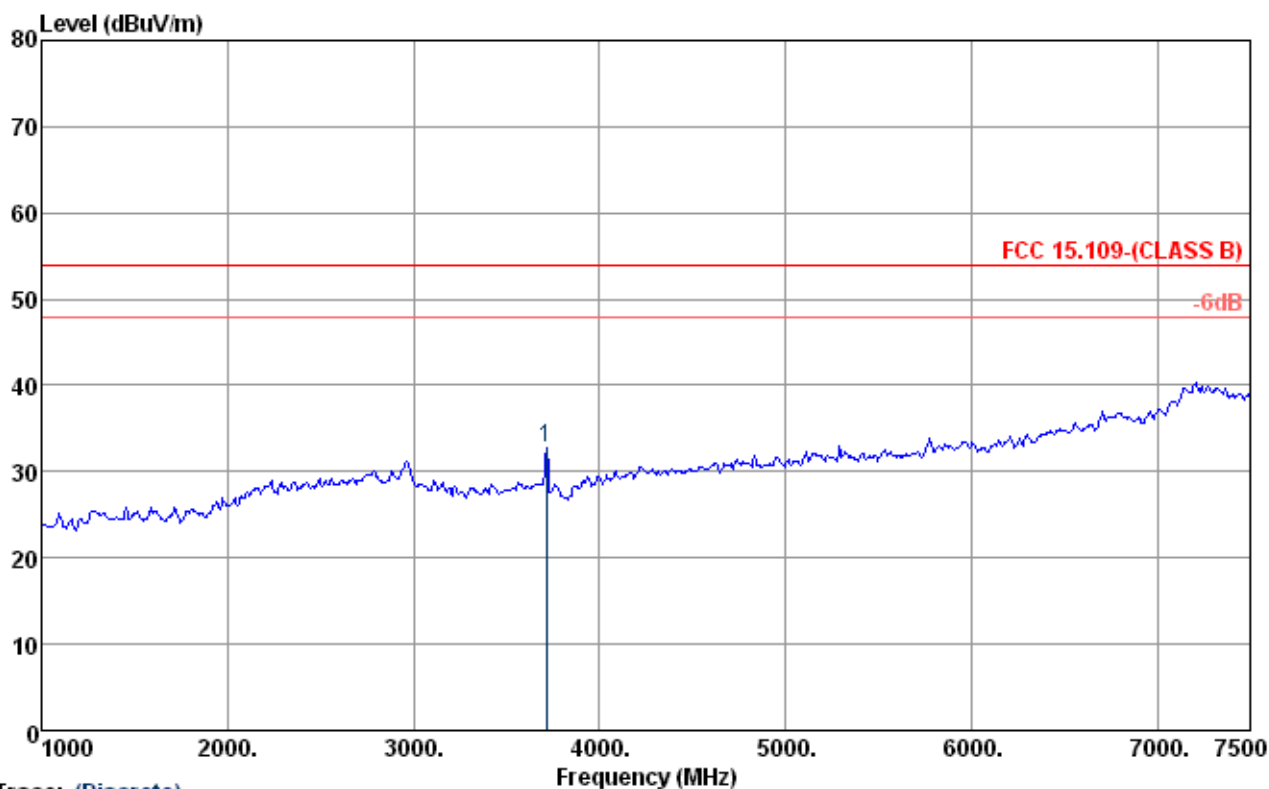
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Test Mode: Config 4  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



#### Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBH49120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Camera REC \_config4  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 3717.00	31.09	28.93	33.19	5.97	1.71	32.80	54.00	-21.20	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 13GHz was 1MHz

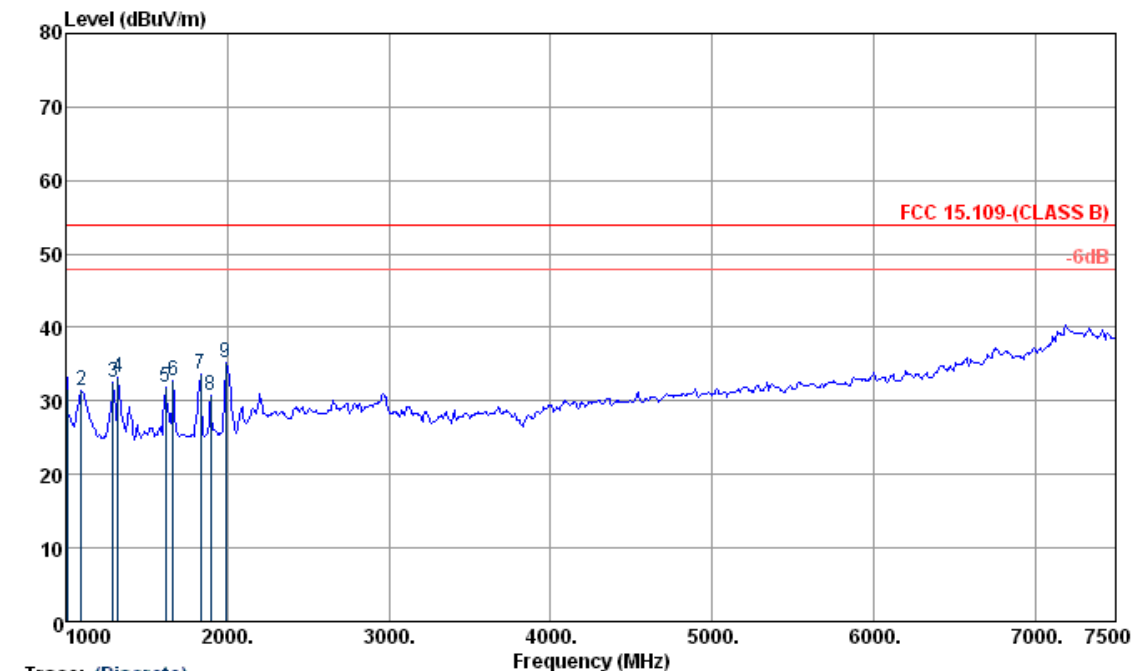
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Test Mode: Config 5  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBH49120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Data link \_config5  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

	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	1006.50	37.32	24.25	32.80	2.98	-5.57	31.75	54.00	-22.25	Peak	
2	1097.50	37.39	24.16	33.36	3.13	-6.07	31.32	54.00	-22.68	Peak	
3	1292.50	37.01	24.92	32.87	3.37	-4.58	32.43	54.00	-21.57	Peak	
4	1325.00	37.56	25.05	32.91	3.43	-4.43	33.13	54.00	-20.87	Peak	
5	1617.50	36.20	24.83	32.91	3.82	-4.26	31.94	54.00	-22.06	Peak	
6	1663.00	37.33	24.75	33.22	3.86	-4.61	32.72	54.00	-21.28	Peak	
7	1832.00	37.26	25.10	32.80	4.16	-3.54	33.72	54.00	-20.28	Peak	
8	1897.00	34.21	25.35	32.95	4.14	-3.46	30.75	54.00	-23.25	Peak	
9 p	1988.00	38.22	25.80	33.09	4.25	-3.04	35.18	54.00	-18.82	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 13GHz was 1MHz

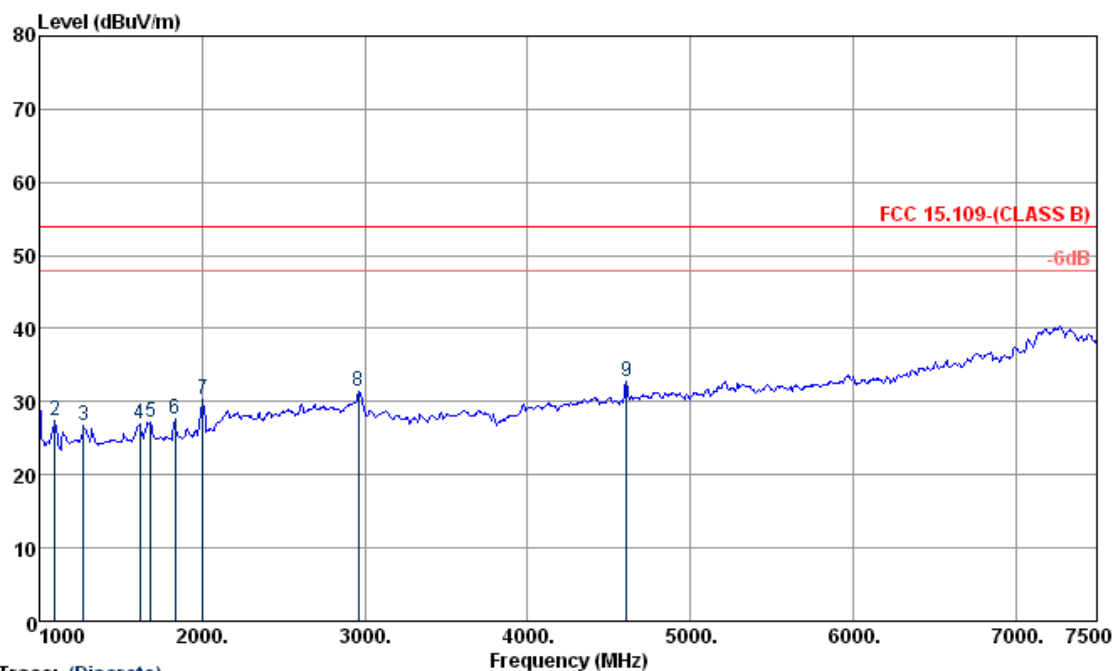
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Test Mode: Config 5  
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 13, 2010  
Test By: Nick



## Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBH49120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Data link \_config5  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

	Freq	ReadAntenna	Preampl	Cable	Loss	Factor	Level	Limit	Over	
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	Remark
1	1000.00	35.75	24.25	32.80	2.89	-5.66	30.09	54.00	-23.91	Peak
2	1097.50	33.40	24.16	33.36	3.13	-6.07	27.33	54.00	-26.67	Peak
3	1273.00	31.35	24.80	32.87	3.37	-4.70	26.65	54.00	-27.35	Peak
4	1617.50	31.26	24.83	32.91	3.82	-4.26	27.09	54.00	-27.00	Peak
5	1882.50	31.85	24.72	33.38	3.90	-4.76	27.09	54.00	-26.91	Peak
6	1832.00	31.09	25.10	32.80	4.16	-3.54	27.55	54.00	-26.45	Peak
7	2007.50	33.27	25.89	33.11	4.25	-2.97	30.30	54.00	-23.70	Peak
8	2963.00	30.74	28.13	32.78	5.25	0.60	31.34	54.00	-22.66	Peak
9 p	4607.50	28.18	30.81	32.95	6.79	4.65	32.83	54.00	-21.17	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 13GHz was 1MHz

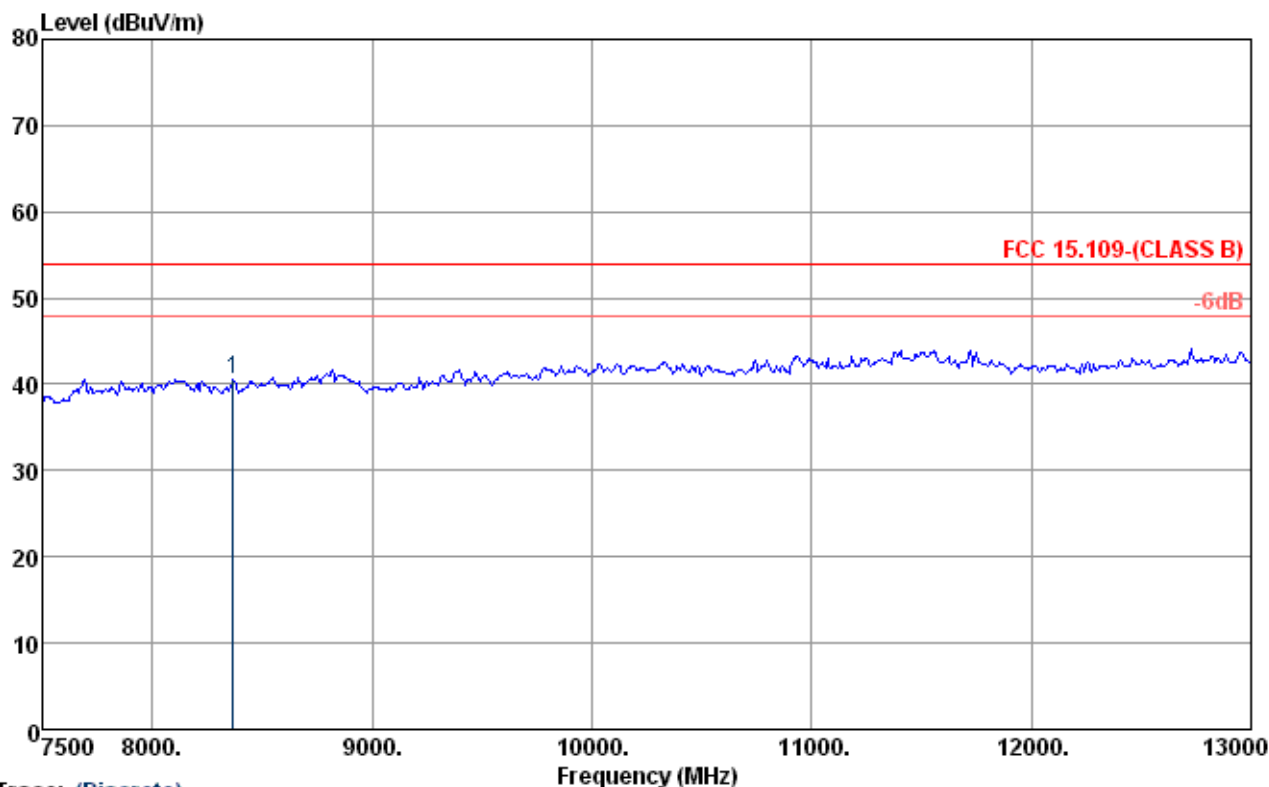
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Test Mode: Config 1  
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 13, 2010  
Test By: Nick

**Trace: (Discrete)**

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Play 1MHz \_config1  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Read	Antenna	Preampl	Cable	Level	Limit	Over	Remark
MHz	Level	Factor	Factor	Loss	dBuV/m	Line	Limit	
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 p 8369.00	26.55	36.69	32.10	9.51	14.10	40.65	54.00	-13.35 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 13GHz was 1MHz

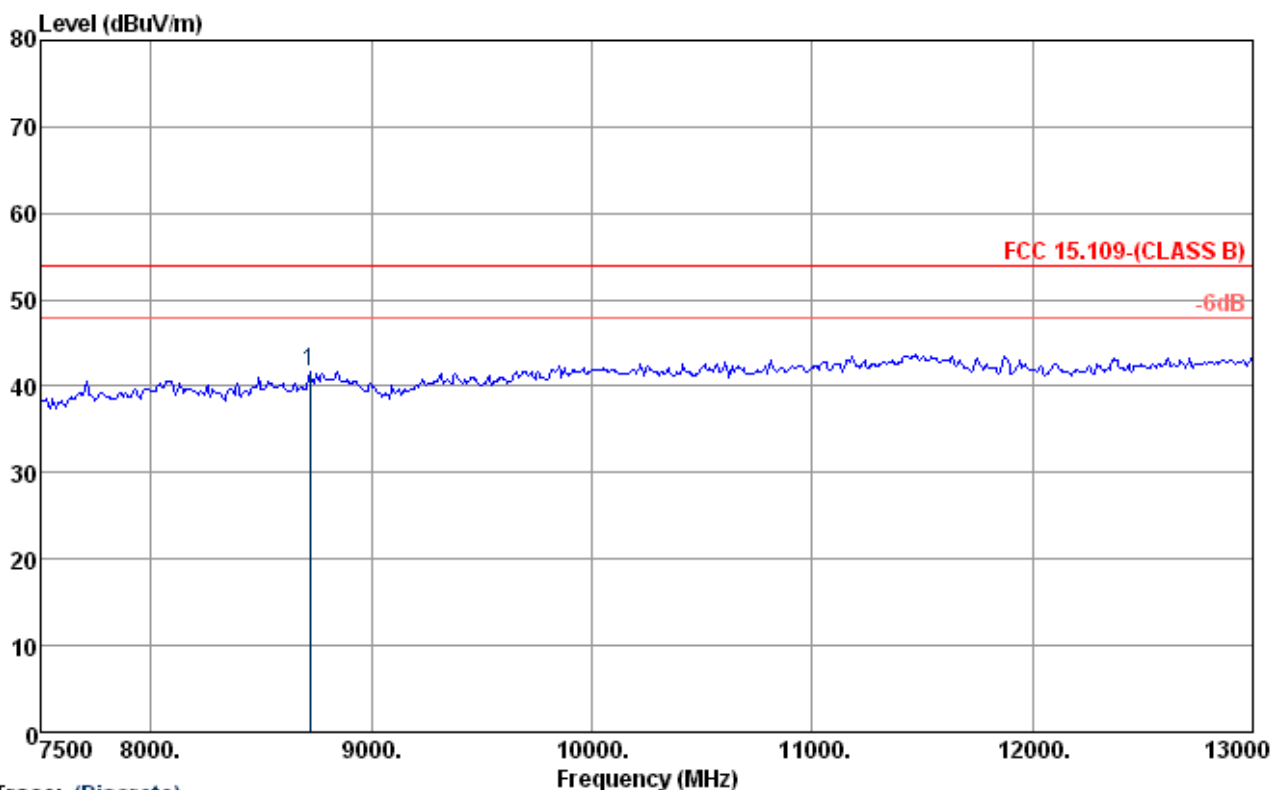
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Test Mode: Config 1  
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 13, 2010  
Test By: Nick



Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Play 1KHz \_config1  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	Antenna	Preamp	Cable	Limit	Over	
MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m
1 p 8721.00	26.74	37.39	32.08	9.72	15.03	41.77	54.00 -12.23 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 13GHz was 1MHz

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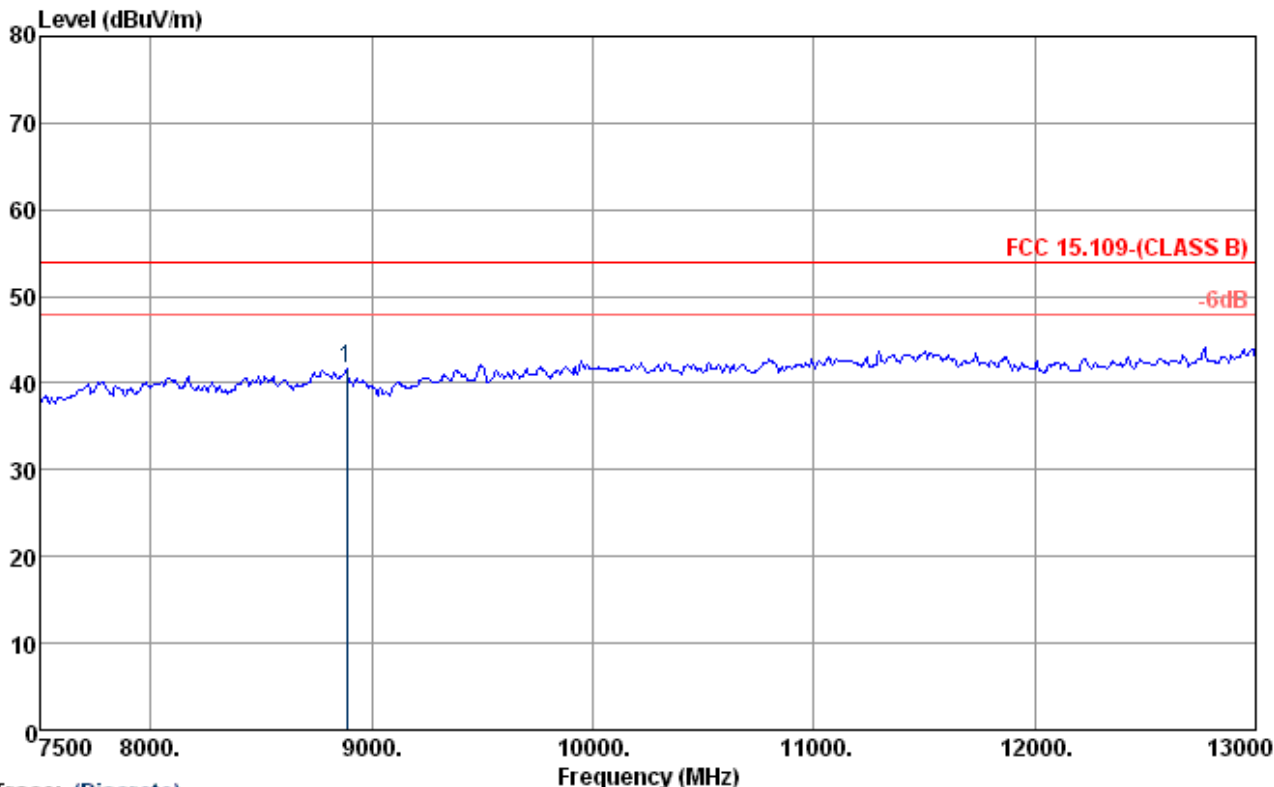
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Test Mode: Config 2

Test Date : Jul. 13, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3  
 Condition : FCC 15.109- (CLASS B) BBHA9120D(966) VERTICAL  
 Project No. : (EI-2010-70006-7) Toshiba\_KD53  
 Applicant : Toshiba Corporation,  
 EUT Description: Mobile Phone  
 EUT Model : KD53  
 Test Mode : Play 1KHz \_config2  
 Temp./Humid. : 24/60  
 Operator : bear  
 IMEI : 990000256848963

Freq	Level	Factor	Factor	Cable	Limit	Over	Remark
MHz	dBuV	dB/m	dB	Loss	dBuV/m	dB	
1 p 8886.00	26.55	37.47	32.30	9.84	15.01	41.56	54.00 -12.44 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 13GHz was 1MHz

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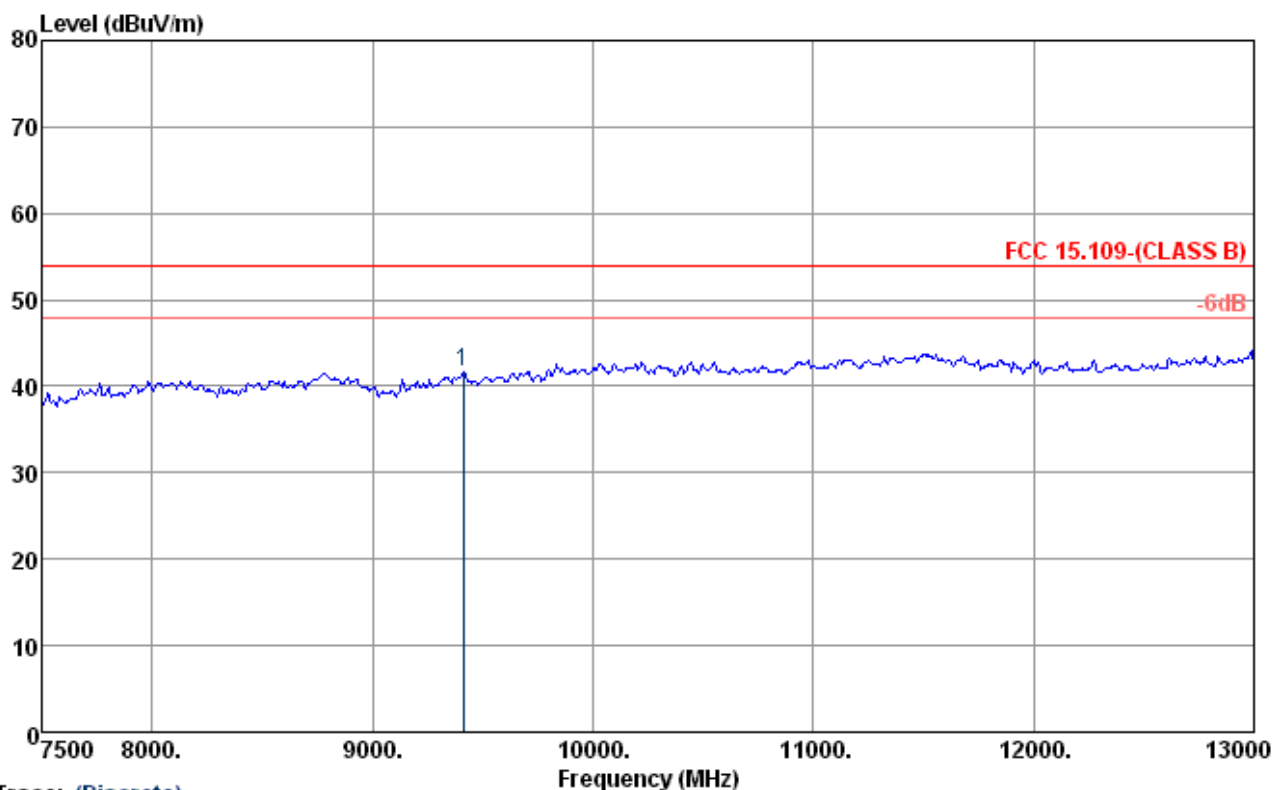
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Test Mode: Config 2

Test Date : Jul. 13, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



### Trace: (Discrete)

Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL  
 Project No. : (EI-2010-70006-7) Toshiba\_KD53  
 Applicant : Toshiba Corporation,  
 EUT Description: Mobile Phone  
 EUT Model : KD53  
 Test Mode : Play 1KHz \_config2  
 Temp./Humid. : 24/60  
 Operator : bear  
 IMEI : 990000256848963

Freq	Level	ReadAntenna	Preamp	Cable	Limit	Over	
MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p 9414.00	25.80	38.08	32.23	10.13	15.98	41.78	54.00 -12.22 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 13GHz was 1MHz

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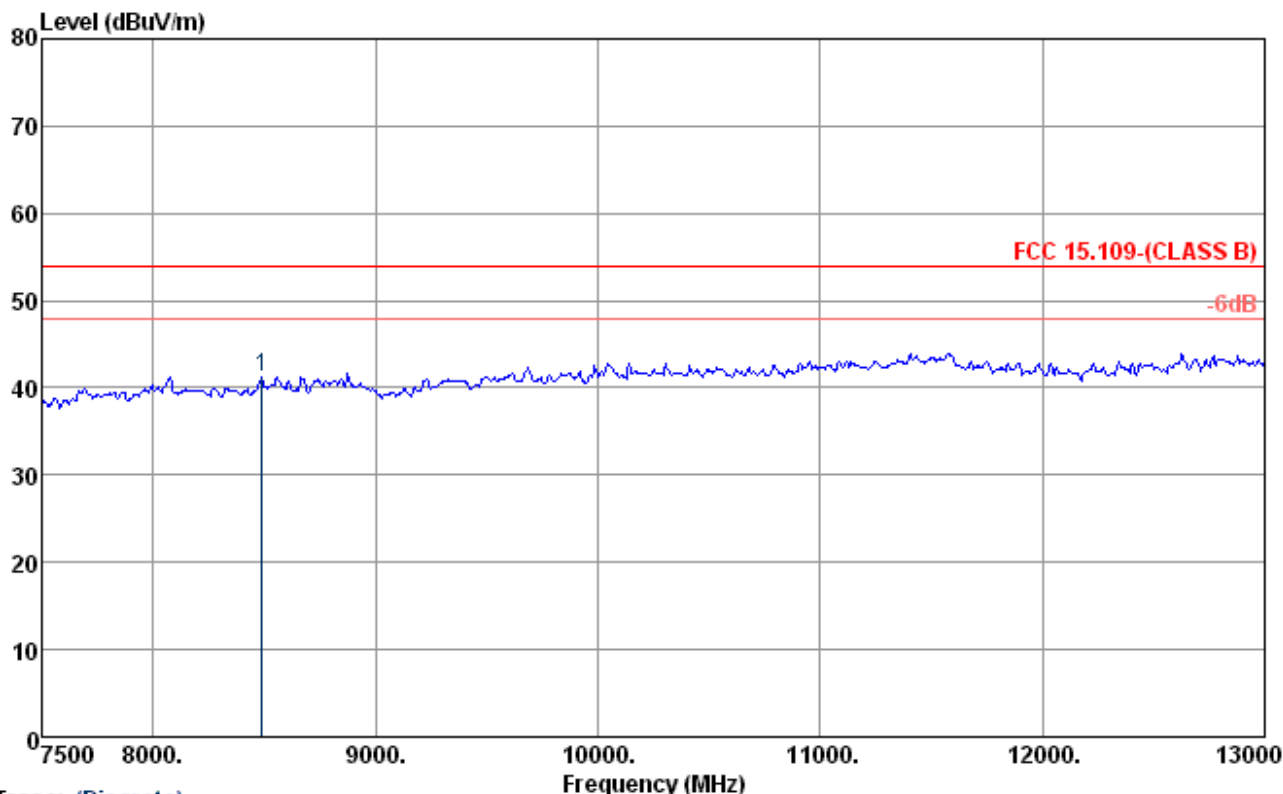
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Test Mode: Config 3

Test Date : Jul. 13, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



### Trace: (Discrete)

Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) BBH49120D(966) VERTICAL  
 Project No. : (EI-2010-70006-7) Toshiba\_KD53  
 Applicant : Toshiba Corporation,  
 EUT Description: Mobile Phone  
 EUT Model : KD53  
 Test Mode : Charge + Camera REC \_config3  
 Temp./Humid. : 24/60  
 Operator : bear  
 IMEI : 990000256848963

Freq	Level	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 8490.00	26.56	36.94	31.94	9.65	14.65	41.21	54.00	-12.79	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 13GHz was 1MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

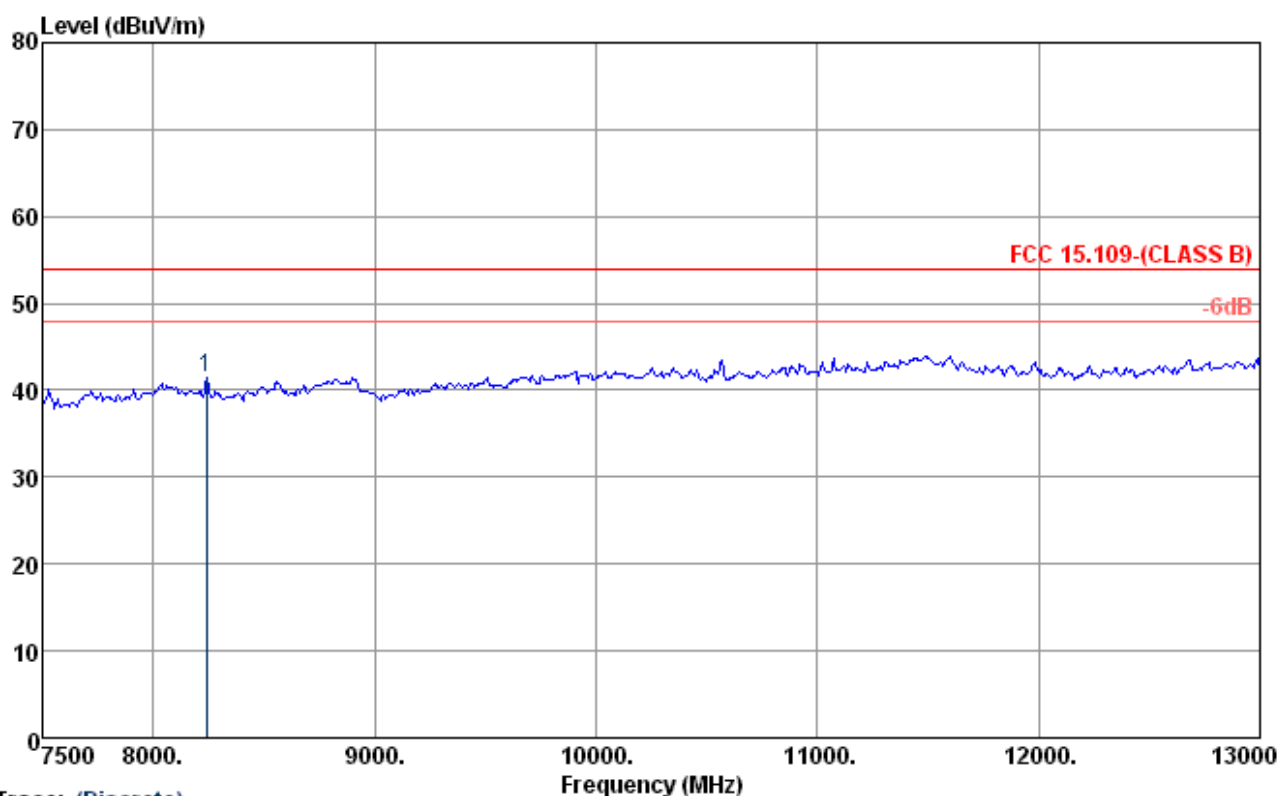
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Test Mode: Config 3  
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 13, 2010  
Test By: Nick

**Trace: (Discrete)**

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBH49120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Charge + Camera REC \_config3  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	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 p 8242.50	27.62	36.67	32.27	9.38	13.78	41.40	54.00	-12.60 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 13GHz was 1MHz

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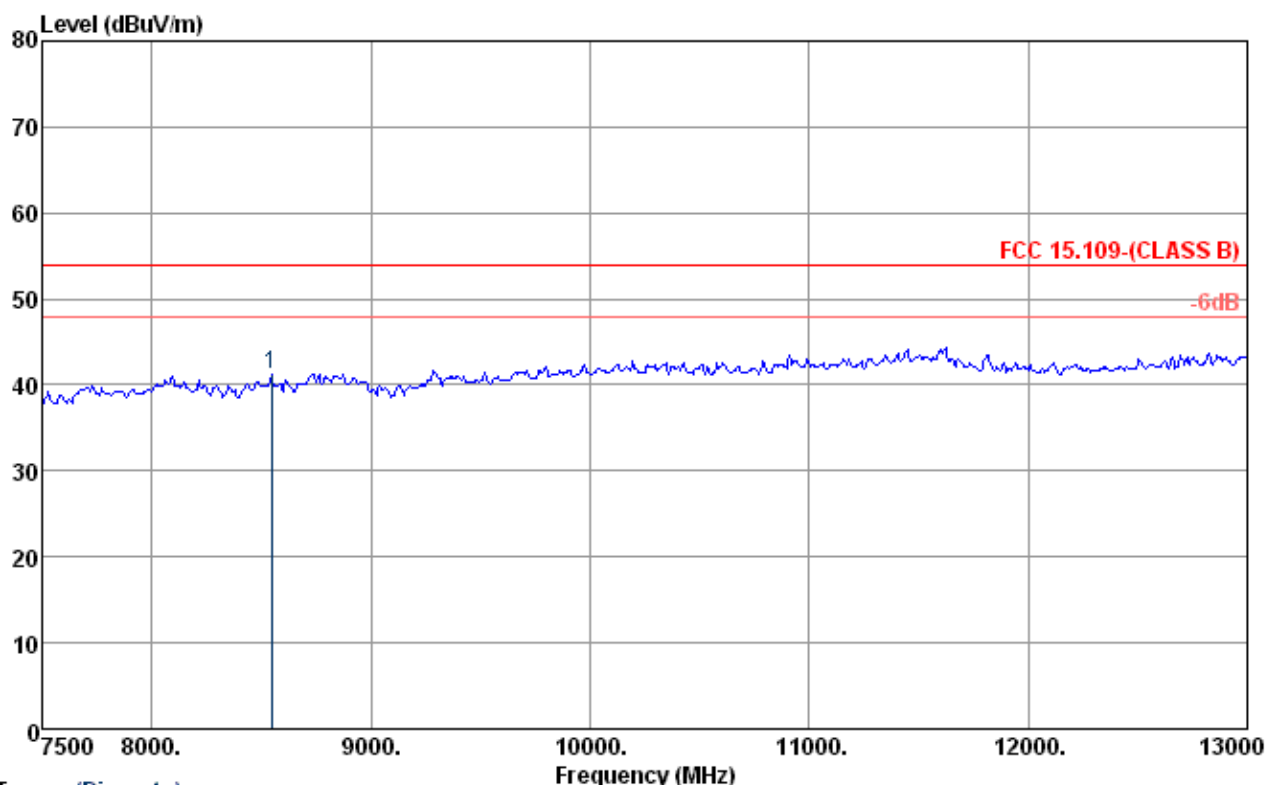
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Test Mode: Config 4

Test Date : Jul. 13, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



### Trace: (Discrete)

Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) BBH49120D(966) VERTICAL  
 Project No. : (EI-2010-70006-7) Toshiba\_KD53  
 Applicant : Toshiba Corporation,  
 EUT Description: Mobile Phone  
 EUT Model : KD53  
 Test Mode : Camera REC \_config4  
 Temp./Humid. : 24/60  
 Operator : bear  
 IMEI : 990000256848963

Freq	Level	ReadAntenna	Preampl	Cable	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 8545.00	26.51	37.07	31.97	9.66	14.76	41.27	54.00	-12.73	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 13GHz was 1MHz

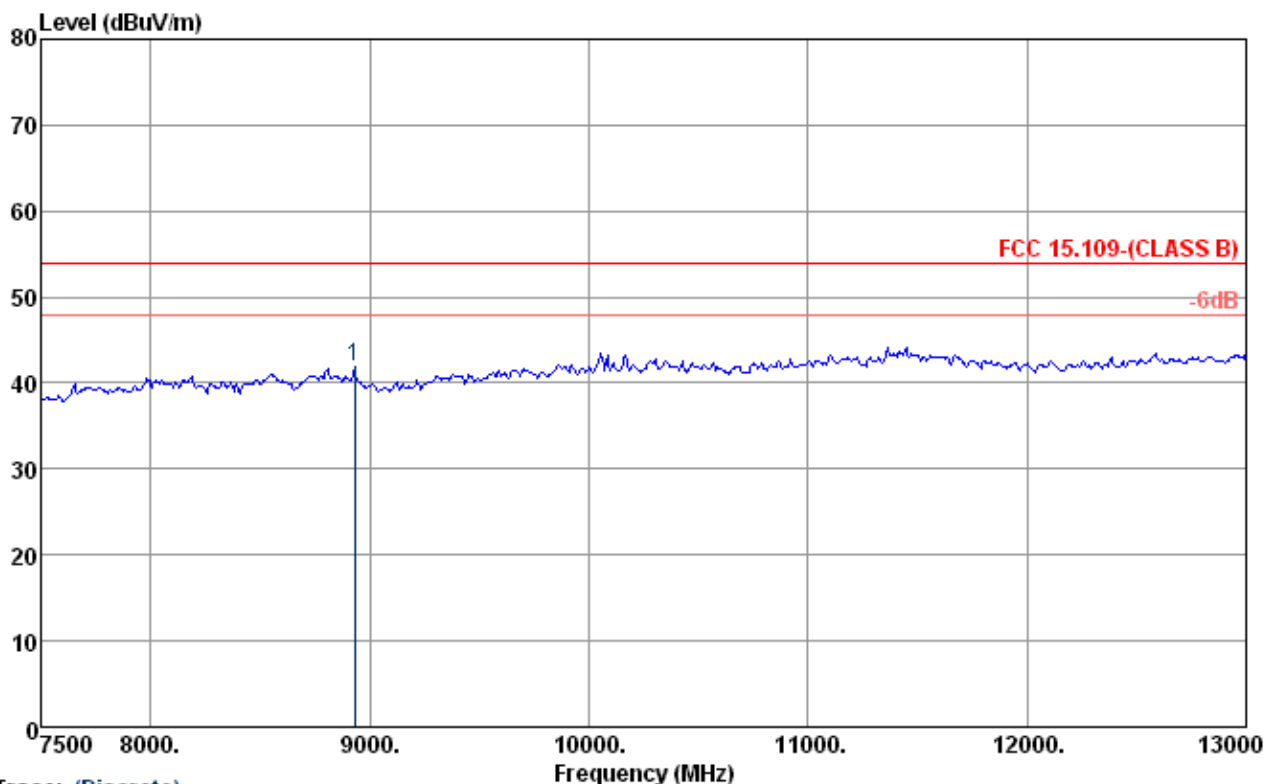
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Test Mode: Config 4  
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 13, 2010  
Test By: Nick



## Trace: (Discrete)

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Camera REC \_config1  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

	Freq	Level	Antenna	Preamp	Cable	Limit	Over	
	MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p	8930.00	26.84	37.46	32.38	9.88	14.96	41.80	54.00 -12.20 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 13GHz was 1MHz

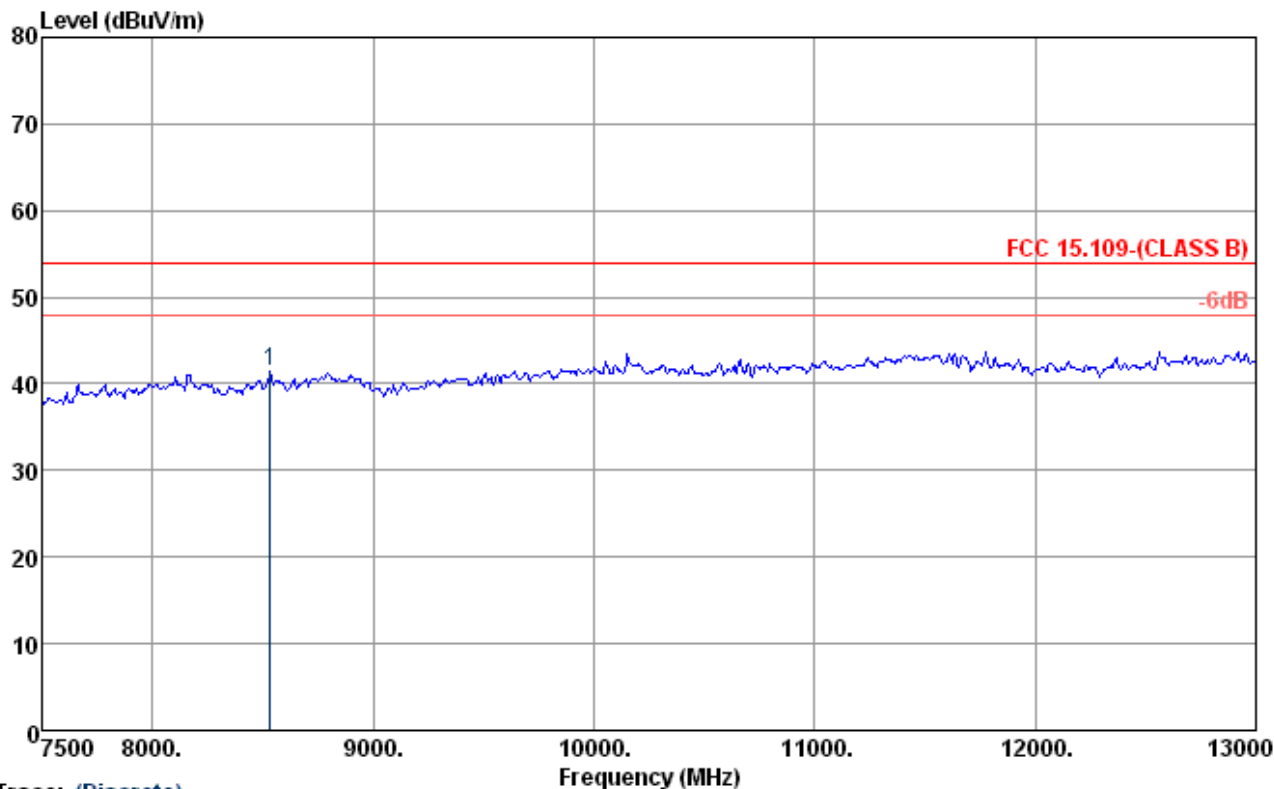
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Test Mode: Config 5  
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 13, 2010  
Test By: Nick

**Trace: (Discrete)**

Site : RF site 3  
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL  
Project No. : (EI-2010-70006-7) Toshiba\_KD53  
Applicant : Toshiba Corporation,  
EUT Description: Mobile Phone  
EUT Model : KD53  
Test Mode : Data link \_config5  
Temp./Humid. : 24/60  
Operator : bear  
IMEI : 990000256848963

Freq	Level	ReadAntenna	Preampl	Cable	Limit	Over		
MHz	dBuV	Factor	Factor	Loss	Factor	Level	Line	Limit Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 p 8534.00	26.79	37.03	31.96	9.66	14.73	41.52	54.00	-12.48 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 13GHz was 1MHz

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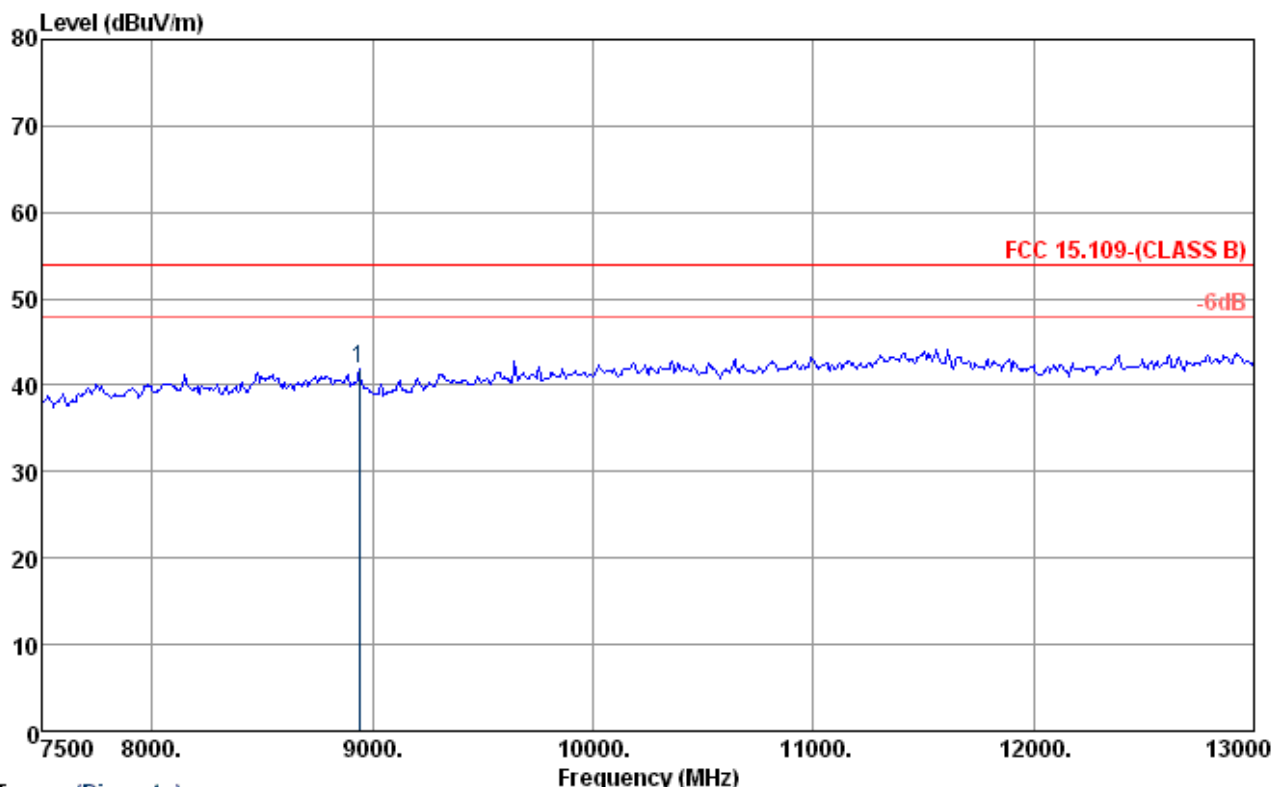
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Test Mode: Config 5

Test Date : Jul. 13, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



### Trace: (Discrete)

Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL  
 Project No. : (EI-2010-70006-7) Toshiba\_KD53  
 Applicant : Toshiba Corporation,  
 EUT Description: Mobile Phone  
 EUT Model : KD53  
 Test Mode : Data link \_config5  
 Temp./Humid. : 24/60  
 Operator : bear  
 IMEI : 990000256848963

Freq	Read	Antenna	Preampl	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p 8941.00	26.88	37.45	32.38	9.88	14.95	41.83	54.00 -12.17 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 13GHz was 1MHz

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