

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: CDMA TS005

FCC ID: WVS-CN10-J04

Report No.: EI/2010/70009

Issue Date: Aug. 09, 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,
191-8555, Japan

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 TS005

Brand Name: N/A

Model No.: CN10-J04

Marketing Name: N/A

Model Difference: N/A

FCC ID: WVS-CN10-J04

Model Name: CN10-J04

File Number: EI/2010/70009

Date of test: Jul. 21, 2010 ~ Jul. 27, 2010

Date of EUT Receive: Jul. 21, 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: Bear Huang **Date:** Aug. 09, 2010

Bear Huang / Engineer

Prepared By: Tiffany Kao **Date:** Aug. 09, 2010

Tiffany Kao / Clerk

Approved By: Arno Hsieh **Date:** Aug. 09, 2010

Arno Hsieh / Asst. Supervisor

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Version

Version No.	Date	Description
00	Aug. 09, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

Product Name:	CDMA TS005		
Model Name:	CN10-J04		
FCC ID:	WVS-CN10-J04		
Software Version:	N/A		
Hardware Version:	Ver.2.0.0		
Data Cable:	N/A		
Simple Hands-free (SHF)	N/A		
Power Supply:	3.7 Vdc re-chargeable battery		
	Battery:	Model: 53TSUAA; Supplier: SANYO Electric	

CDMA:

	Operating Frequency			Rated Power
Cellular Phone Standards Frequency Range and Power:	CDMA2000 Cellular	TX:	824.70-848.31 MHz	24.5dBm
		RX:	869.70-893.31 MHz	
MEID:	A10000070A0732			

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
CDMA Cellular	3.7Vdc	630

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Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V2.1 + EDR (GFSK + /4DQPSK + 8DPSK)
Channel number:	79 channels
Transmit Power:	4.3 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	Monopole Antenna / antenna gain: 3.2dBi

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.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **WVS-CN10-J04** 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.

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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.

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 $\text{dB}\mu\text{V/m}=20 \log (\mu\text{V/m})$

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

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2.5 Configuration of Tested System

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

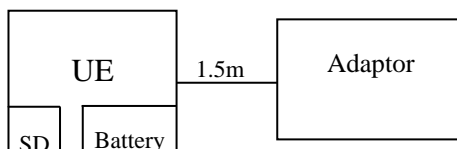


Fig. 2-2 Configuration of Tested System (config 2,4)

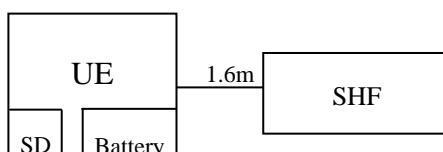


Fig. 2-3 Configuration of Tested System (config 5)

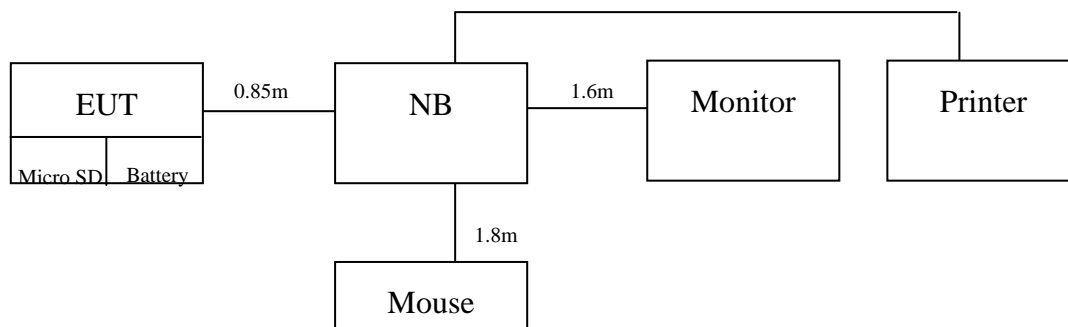


Fig. 2-5 Configuration of Tested System (Remote Side)



Model config refer to section 4 for detail

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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	N/A	N/A	1.6m Un-shielded
2.	Monitor	HP	HSTND-2F02	CND7122S7B	N/A	1.6 Un-shielded	Un-shielded
3.	USB Mouse	HP	MO42KOA	0307012110	N/A	1.8m Un-shielded	N/A
4.	Printer	HP	DJ3820	CN34L181B1	N/A	1.6m, Un-Shielded	Un-shielded
5.	Micro SD	SanDisk	1G	Micro SD	N/A	N/A	N/A
6.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A	Un-shielded
7.	Simple Hands-Free	Hoshiden	KRJ0003-010020 (mic)	N/A	N/A	N/A	N/A
8.	Adaptor	MITSUMI ELECTRIC (FCC)	0203PQA	N/A	N/A	N/A	1.5m Un-shielded,
9.	Data Cable	Hoshiden	HPC1508-01001 0	N/A	N/A	0.85m Un-shielded	N/A
10.	Simple Hands-Free	Hoshiden	HDH0669-01022 1(earphone)	N/A	N/A	N/A	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:

	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	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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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.

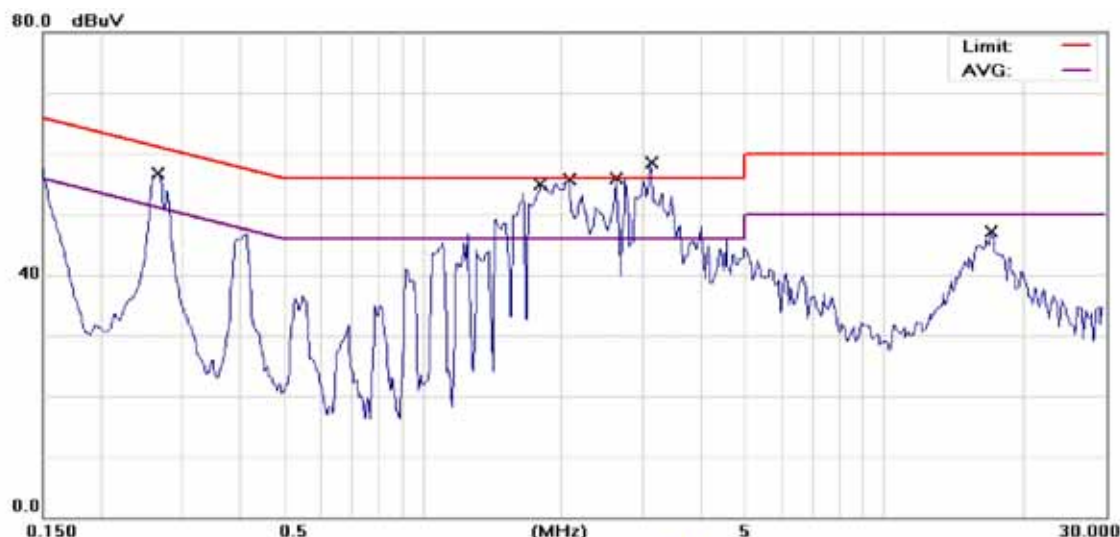
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Jul. 27, 2010
		Test By:	Bear



Site: SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: Mobile Phone
M/N: KD56
Note: Charge+Play 1KHz_Config1
IMEI: A10000070A0731

Phase: L1
Power: AC 120V/60Hz
Distance:

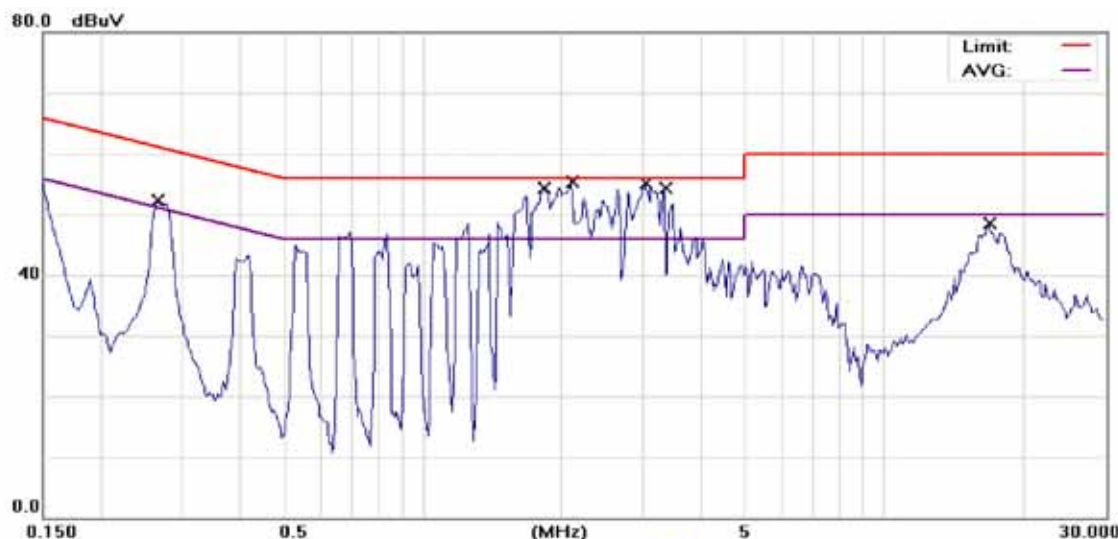
Temperature: 24 °C
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2641	52.16	0.12	52.28	61.30	-9.02	QP	
2		0.2641	35.94	0.12	36.06	51.30	-15.24	AVG	
3		1.7981	50.01	0.15	50.16	56.00	-5.84	QP	
4		1.7981	32.63	0.15	32.78	46.00	-13.22	AVG	
5		2.0761	51.71	0.16	51.87	56.00	-4.13	QP	
6		2.0761	33.17	0.16	33.33	46.00	-12.67	AVG	
7		2.6357	50.59	0.17	50.76	56.00	-5.24	QP	
8		2.6357	33.82	0.17	33.99	46.00	-12.01	AVG	
9	*	3.1268	55.31	0.18	55.49	56.00	-0.51	QP	
10		3.1268	33.43	0.18	33.61	46.00	-12.39	AVG	
11		17.0454	40.78	0.54	41.32	60.00	-18.68	QP	
12		17.0454	27.59	0.54	28.13	50.00	-21.87	AVG	

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Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Mobile Phone
 M/N: KD56
 Note: Charge+Play 1KHz_Config1
 IMEI:A10000070A0731

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		0.2644	49.66	0.13	49.79	61.29	-11.50	QP	
2		0.2644	35.33	0.13	35.46	51.29	-15.83	AVG	
3		1.8229	52.42	0.15	52.57	56.00	-3.43	QP	
4		1.8229	32.48	0.15	32.63	46.00	-13.37	AVG	
5	*	2.1018	53.61	0.16	53.77	56.00	-2.23	QP	
6		2.1018	34.79	0.16	34.95	46.00	-11.05	AVG	
7		3.0281	52.43	0.18	52.61	56.00	-3.39	QP	
8		3.0281	31.35	0.18	31.53	46.00	-14.47	AVG	
9		3.3471	48.96	0.19	49.15	56.00	-6.85	QP	
10		3.3471	30.58	0.19	30.77	46.00	-15.23	AVG	
11		16.9283	42.15	0.47	42.62	60.00	-17.38	QP	
12		16.9283	29.07	0.47	29.54	50.00	-20.46	AVG	

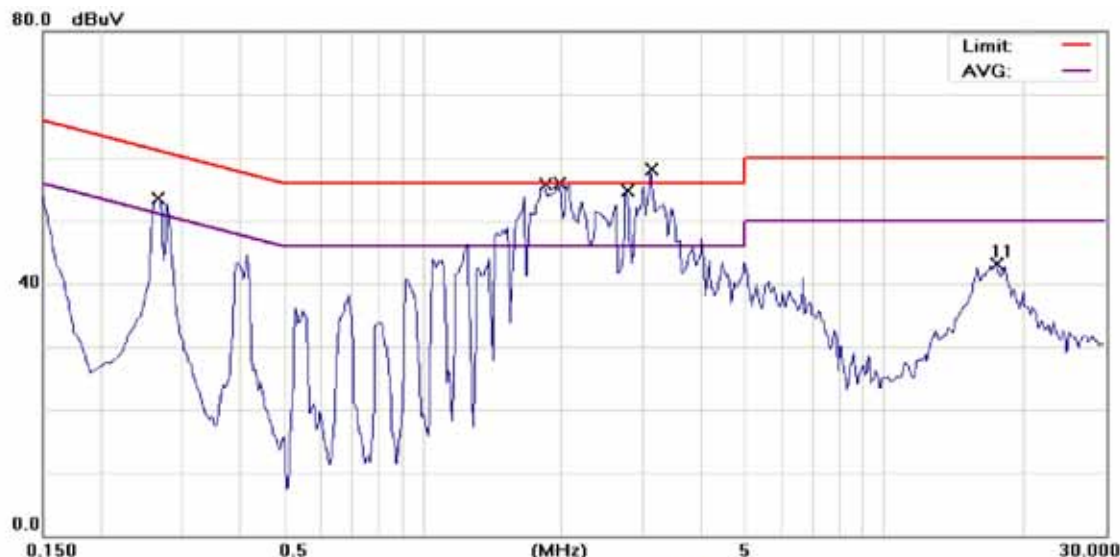
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Jul. 27, 2010
		Test By:	Bear



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Mobile Phone

M/N: KD56

Note: Charge+Camera REC_Config3

IMEI:A10000070A0731

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 58 %

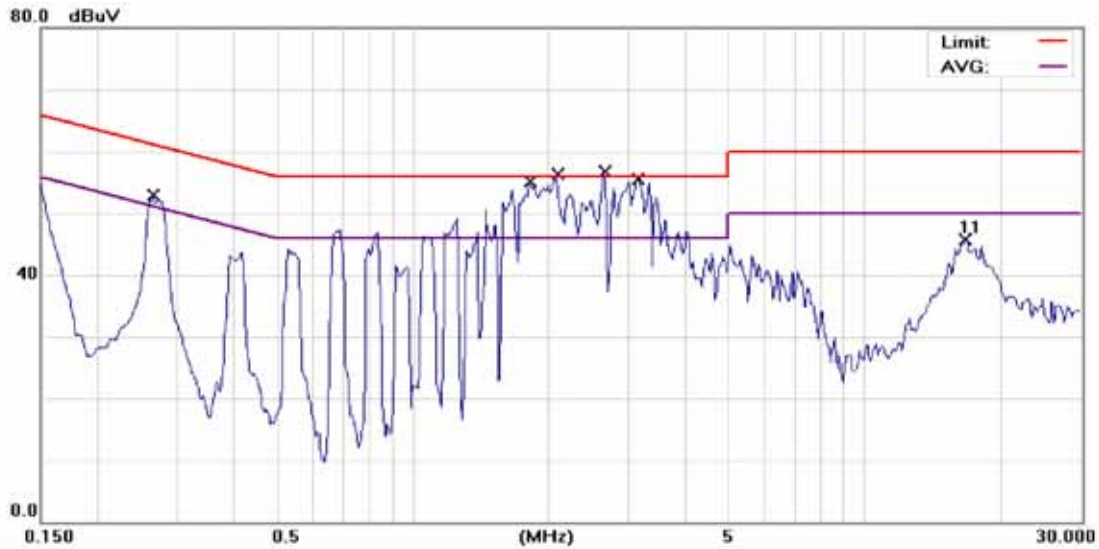
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2641	50.88	0.12	51.00	61.30	-10.30	QP	
2		0.2641	36.08	0.12	36.20	51.30	-15.10	AVG	
3		1.8385	52.92	0.15	53.07	56.00	-2.93	QP	
4		1.8385	31.64	0.15	31.79	46.00	-14.21	AVG	
5		1.9717	52.97	0.16	53.13	56.00	-2.87	QP	
6		1.9717	33.29	0.16	33.45	46.00	-12.55	AVG	
7		2.7685	51.47	0.18	51.65	56.00	-4.35	QP	
8		2.7685	36.64	0.18	36.82	46.00	-9.18	AVG	
9	*	3.1238	54.58	0.18	54.76	56.00	-1.24	QP	
10		3.1238	36.77	0.18	36.95	46.00	-9.05	AVG	
11		17.4800	42.62	0.53	43.15	60.00	-16.85	peak	

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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Mobile Phone

M/N: KD56

Note: Charge+Camera REC_Config3

IMEI:A10000070A0731

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		0.2646	49.76	0.13	49.89	61.29	-11.40	QP	
2		0.2646	37.90	0.13	38.03	51.29	-13.26	AVG	
3		1.8091	52.20	0.15	52.35	56.00	-3.65	QP	
4		1.8091	33.15	0.15	33.30	46.00	-12.70	AVG	
5	*	2.0848	52.55	0.16	52.71	56.00	-3.29	QP	
6		2.0848	35.18	0.16	35.34	46.00	-10.66	AVG	
7		2.6491	48.66	0.17	48.83	56.00	-7.17	QP	
8		2.6491	30.65	0.17	30.82	46.00	-15.18	AVG	
9		3.1324	51.29	0.18	51.47	56.00	-4.53	QP	
10		3.1324	33.67	0.18	33.85	46.00	-12.15	AVG	
11		16.7400	45.31	0.47	45.78	60.00	-14.22	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 5	Test Date:	Jul. 27, 2010
		Test By:	Bear



Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: Mobile Phone
M/N: KD56
Note: Data link _Config5
IMEI: A10000070A0731

Phase: L1
Power: AC 120V/60Hz
Distance:

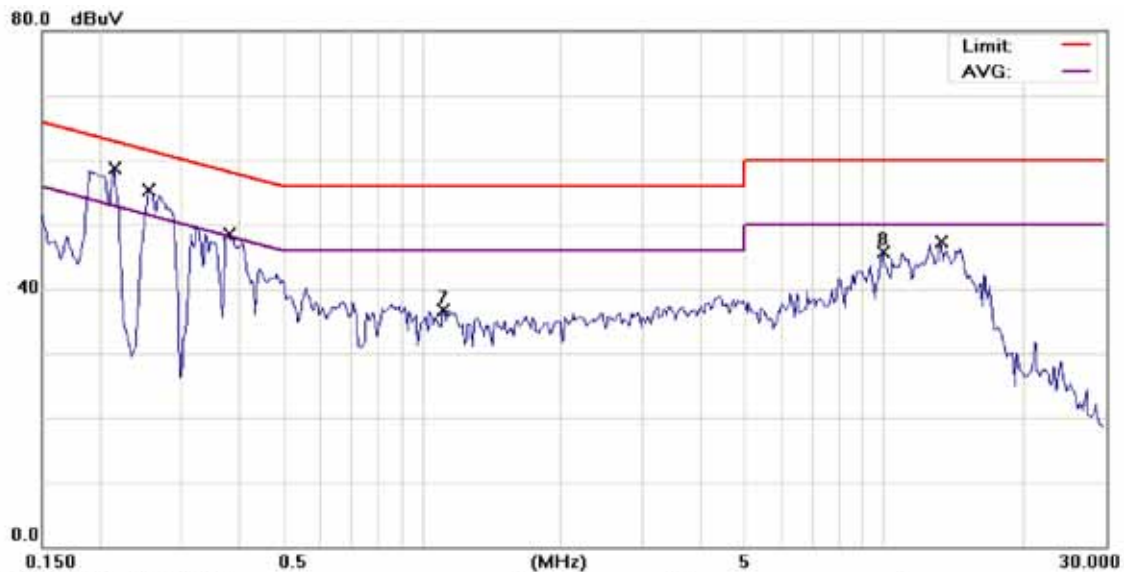
Temperature: 24 °C
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1944	54.67	0.12	54.79	63.85	-9.06	QP	
2		0.1944	39.44	0.12	39.56	53.85	-14.29	AVG	
3	*	0.2647	52.17	0.12	52.29	61.28	-8.99	QP	
4		0.2647	38.71	0.12	38.83	51.28	-12.45	AVG	
5		0.3340	45.24	0.12	45.36	59.35	-13.99	QP	
6		0.3340	29.06	0.12	29.18	49.35	-20.17	AVG	
7		0.4400	42.26	0.12	42.38	57.06	-14.68	peak	
8		4.8600	38.46	0.22	38.68	56.00	-17.32	peak	
9		14.6200	46.32	0.56	46.88	60.00	-13.12	peak	

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Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Mobile Phone
 M/N: KD56
 Note: Data link _Config5
 IMEI:A10000070A0731

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		0.2142	53.55	0.13	53.68	63.04	-9.36	QP	
2		0.2142	35.21	0.13	35.34	53.04	-17.70	AVG	
3	*	0.2551	52.10	0.13	52.23	61.59	-9.36	QP	
4		0.2551	37.96	0.13	38.09	51.59	-13.50	AVG	
5		0.3791	47.00	0.12	47.12	58.30	-11.18	QP	
6		0.3791	31.61	0.12	31.73	48.30	-16.57	AVG	
7		1.1100	36.66	0.13	36.79	56.00	-19.21	peak	
8		9.9400	45.20	0.51	45.71	60.00	-14.29	peak	
9		13.2713	41.40	0.51	41.91	60.00	-18.09	QP	
10		13.2713	31.85	0.51	32.36	50.00	-17.64	AVG	

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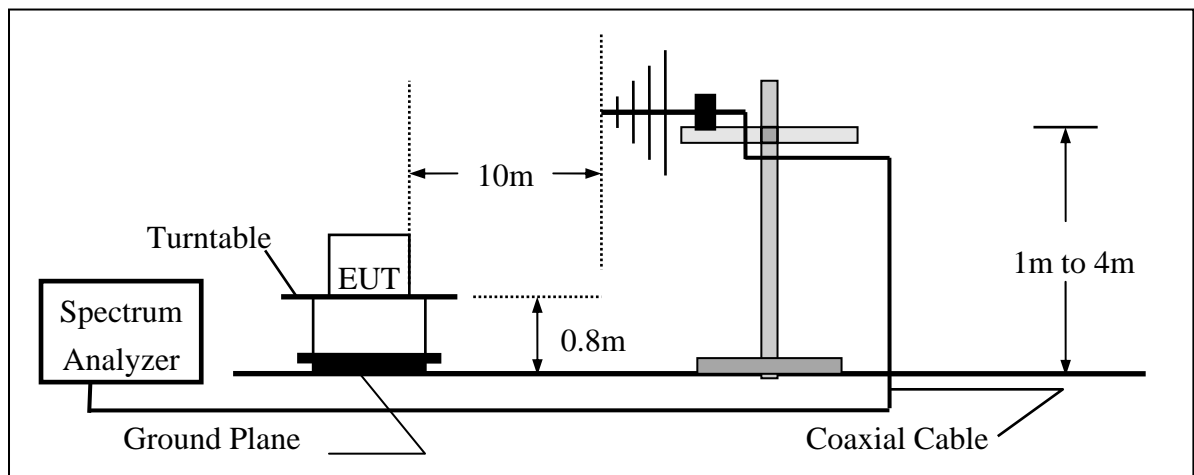
6. Radiated Emission Test

6.1 Measurement Procedure

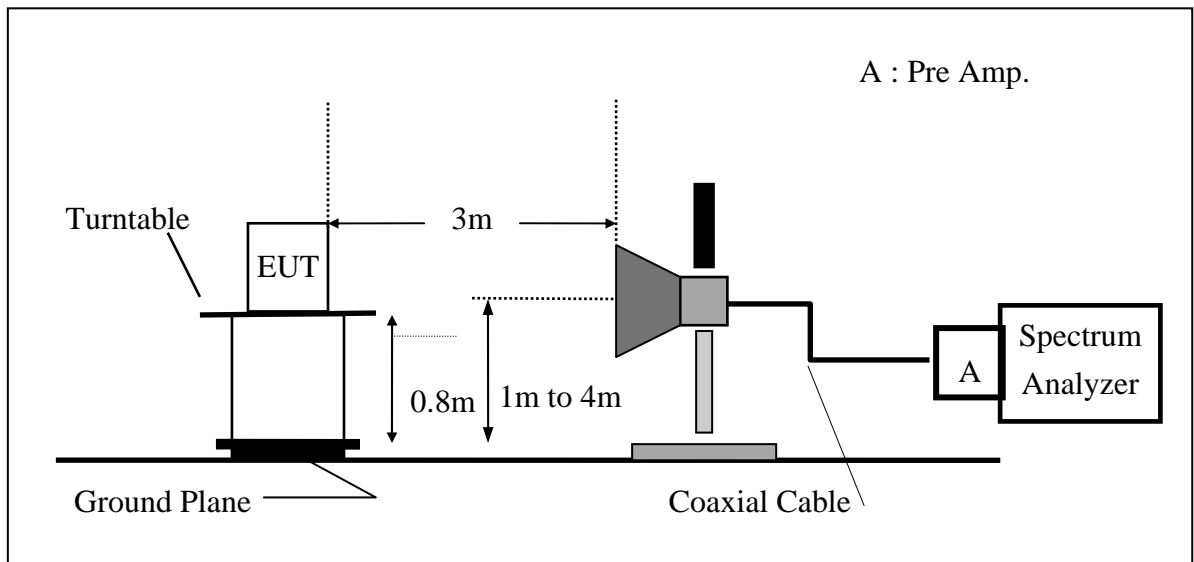
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

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	02/12/2010	02/11/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
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

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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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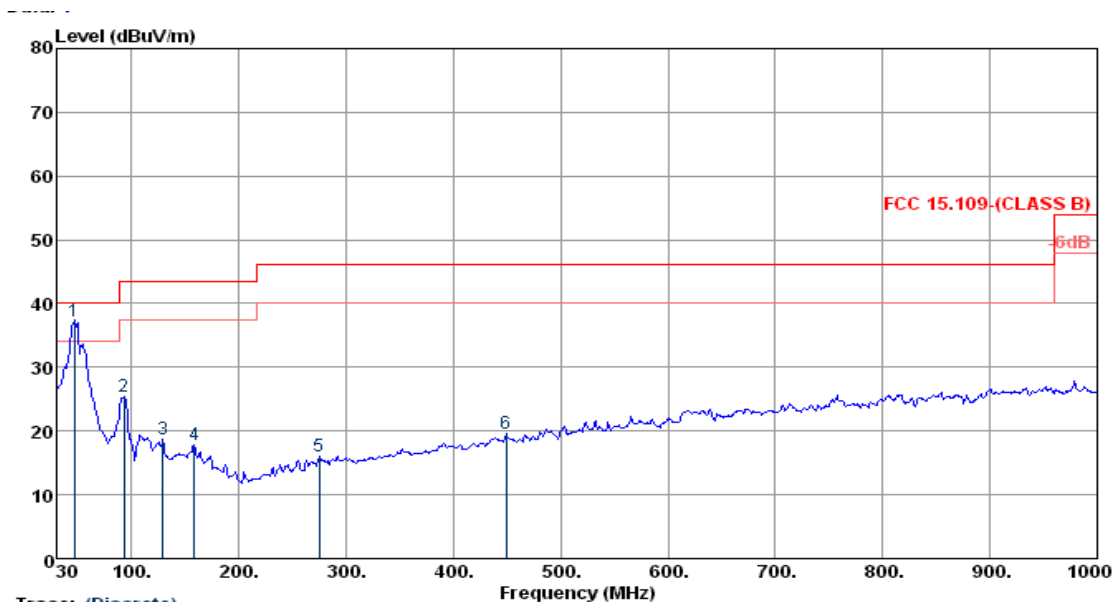
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6.5 Measurement Result (below 1G)

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

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-26)-966 VERTICAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Charge+Play 1KHz _config1
Temp./Humid. : 24/60
Operator : bear
IMEI : A10000070A0731

	Freq	Level	Factor	Preamp	Cable	Loss	Factor	Level	Limit	Over
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	Limit Remark
1	46.86	51.09	13.61	27.84	0.39	-13.84	37.25	40.00	-2.75	QP
2	93.05	42.51	9.72	27.62	0.73	-17.17	25.34	43.52	-18.18	QP
3	128.94	32.56	12.68	27.48	0.86	-13.94	18.62	43.52	-24.90	QP
4	158.04	29.85	14.14	27.24	1.10	-12.00	17.85	43.52	-25.67	QP
5	274.44	29.12	12.26	26.75	1.47	-13.02	16.10	46.02	-29.92	QP
6	449.04	29.25	15.97	27.63	1.92	-9.74	19.51	46.02	-26.51	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

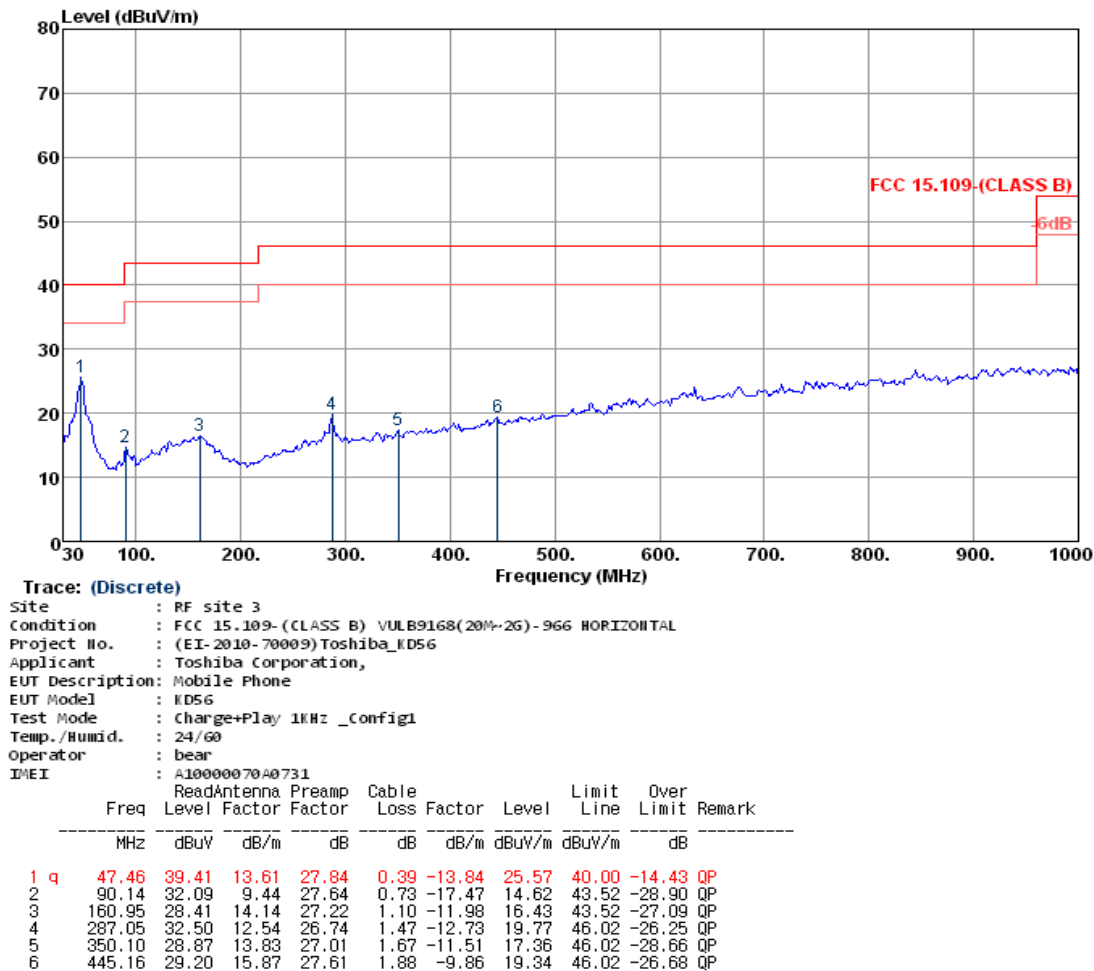
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Test Mode: Config 1
Frequency Range: 30MHz-1GHz

Test Date: Jul. 27, 2010
Test By: Bear



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

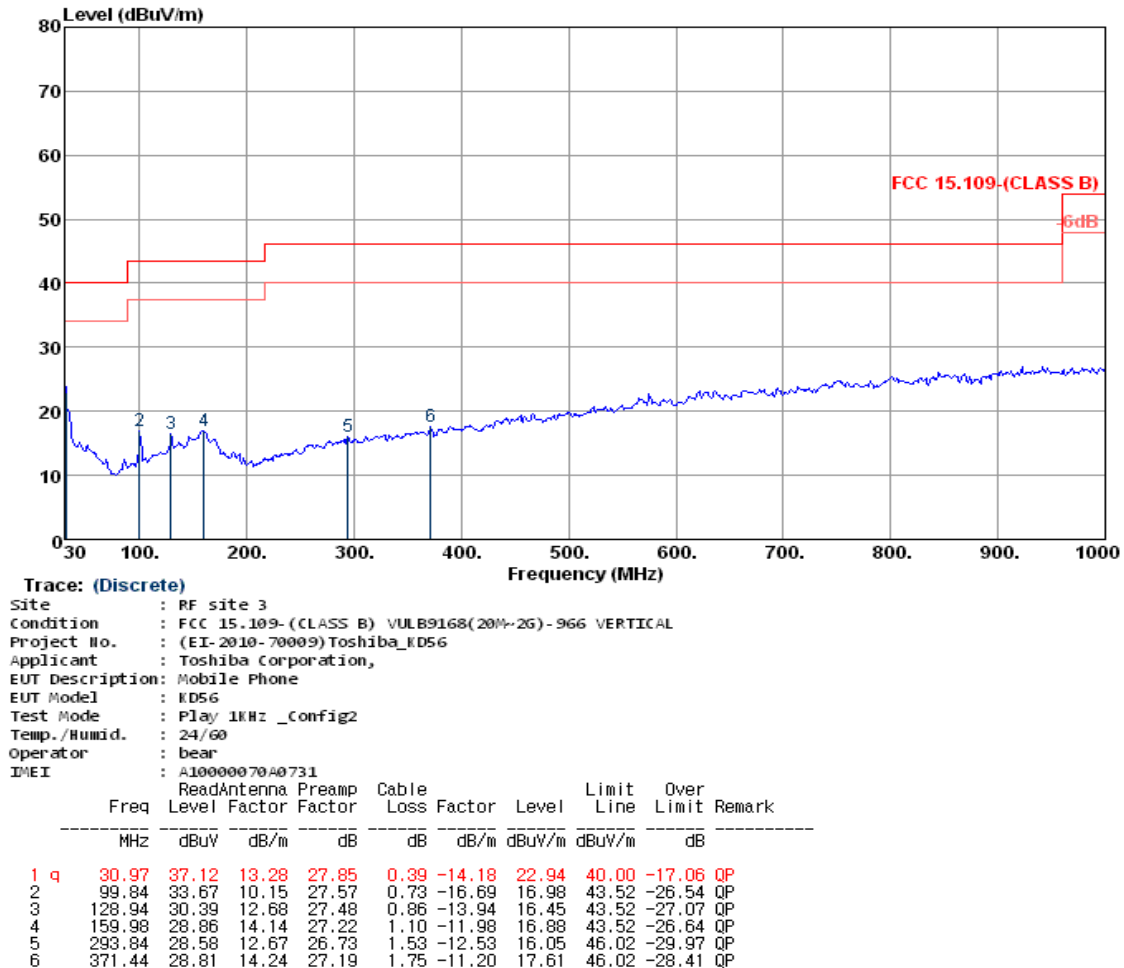
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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Jul. 27, 2010
Test By: Bear



Remark :

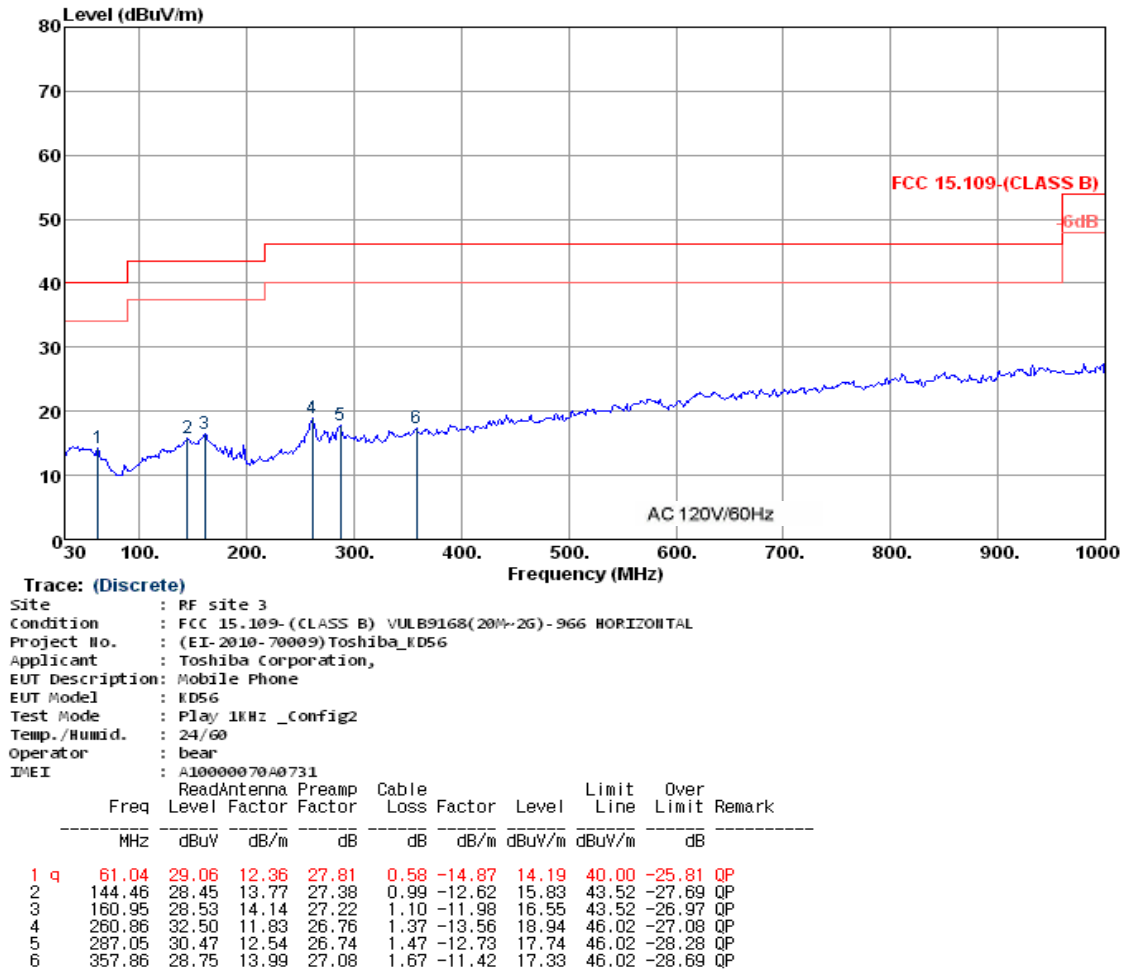
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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

Test Date: Jul. 27, 2010
Test By: Bear



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

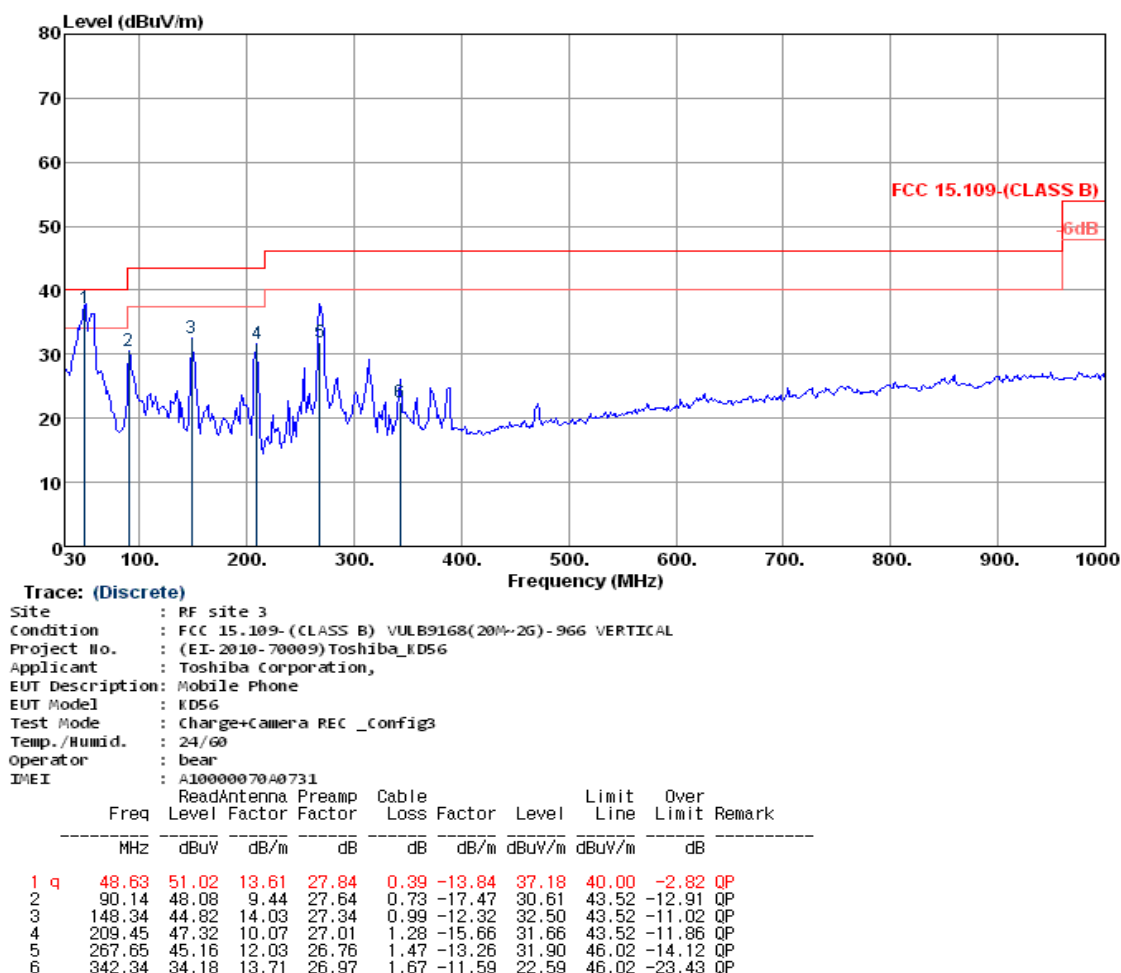
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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date: Jul. 27, 2010
Test By: Bear



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

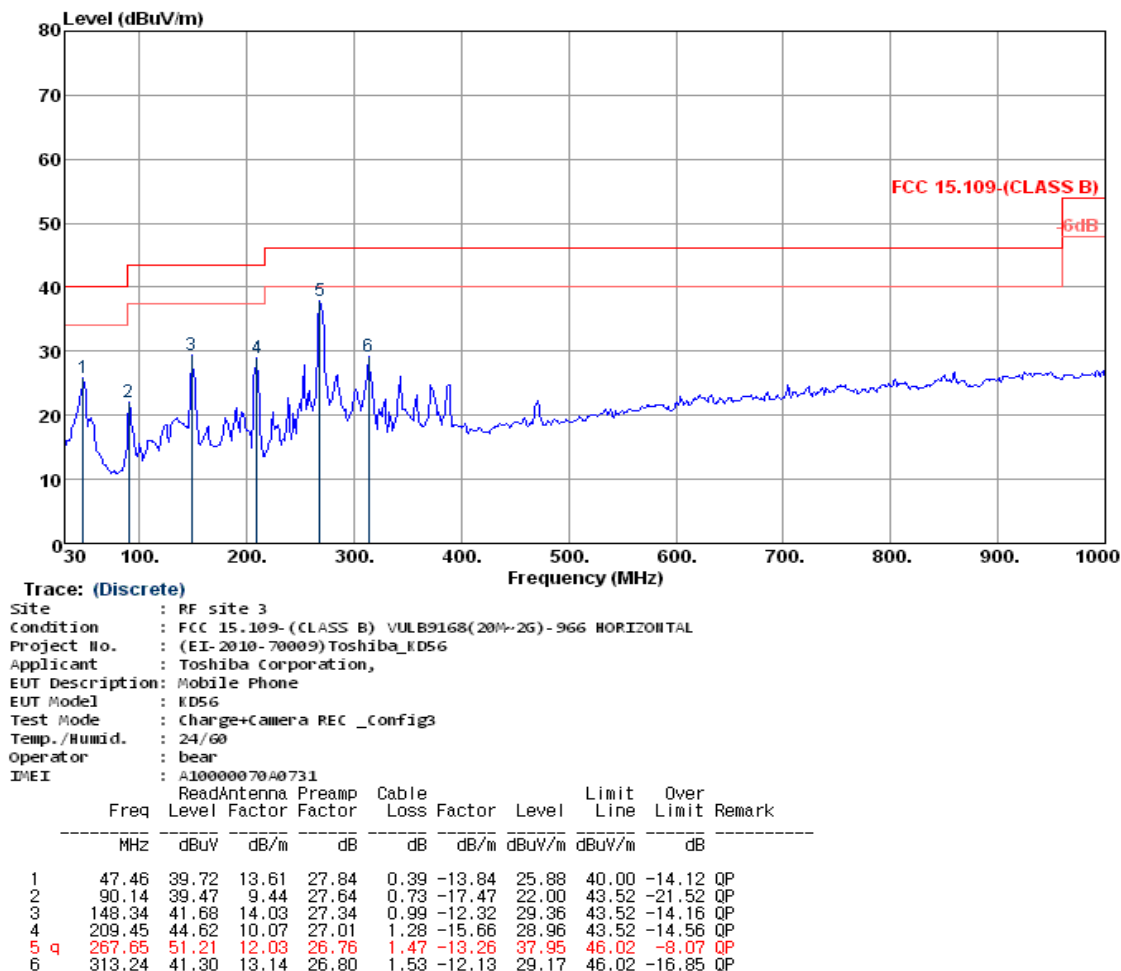
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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date: Jul. 27, 2010
Test By: Bear



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

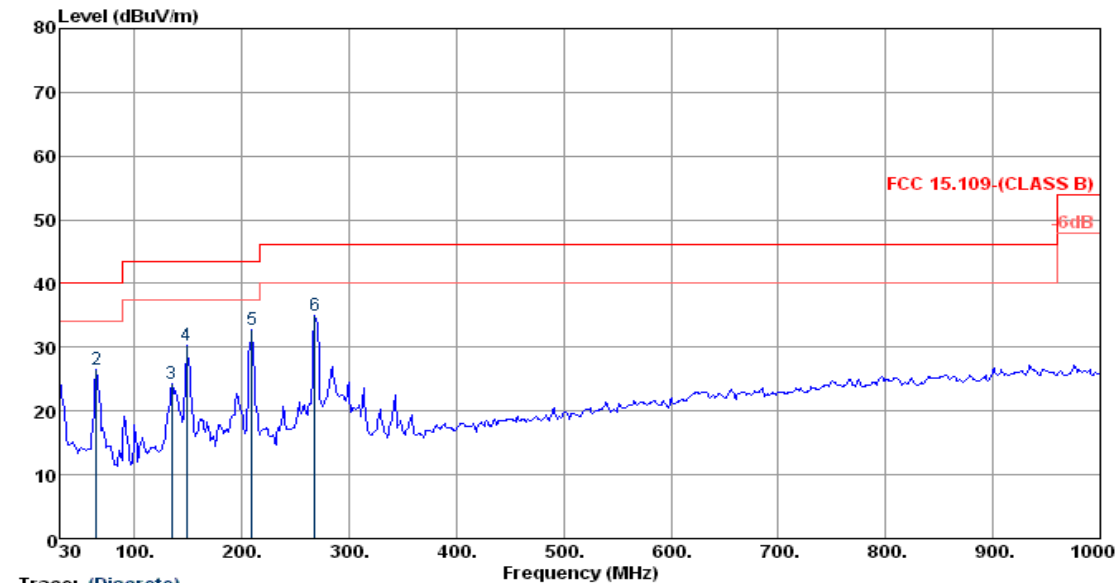
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20MHz-2G)-966 VERTICAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Camera REC_Config
Temp./Humid. : 24/60
operator : bear
IMEI : A1000007040731

	Freq	Level	Factor	Factor	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	30.00	39.21	13.22	27.85	0.39	-14.24	24.97	40.00	-15.03	QP
2	63.95	41.64	11.98	27.79	0.58	-15.23	26.41	40.00	-13.59	QP
3	134.76	37.68	13.08	27.44	0.99	-13.37	24.31	43.52	-19.21	QP
4	148.34	42.61	14.03	27.34	0.99	-12.32	30.29	43.52	-13.23	QP
5	209.45	48.50	10.07	27.01	1.28	-15.66	32.84	43.52	-10.68	QP
6	267.65	48.23	12.03	26.76	1.47	-13.26	34.97	46.02	-11.05	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

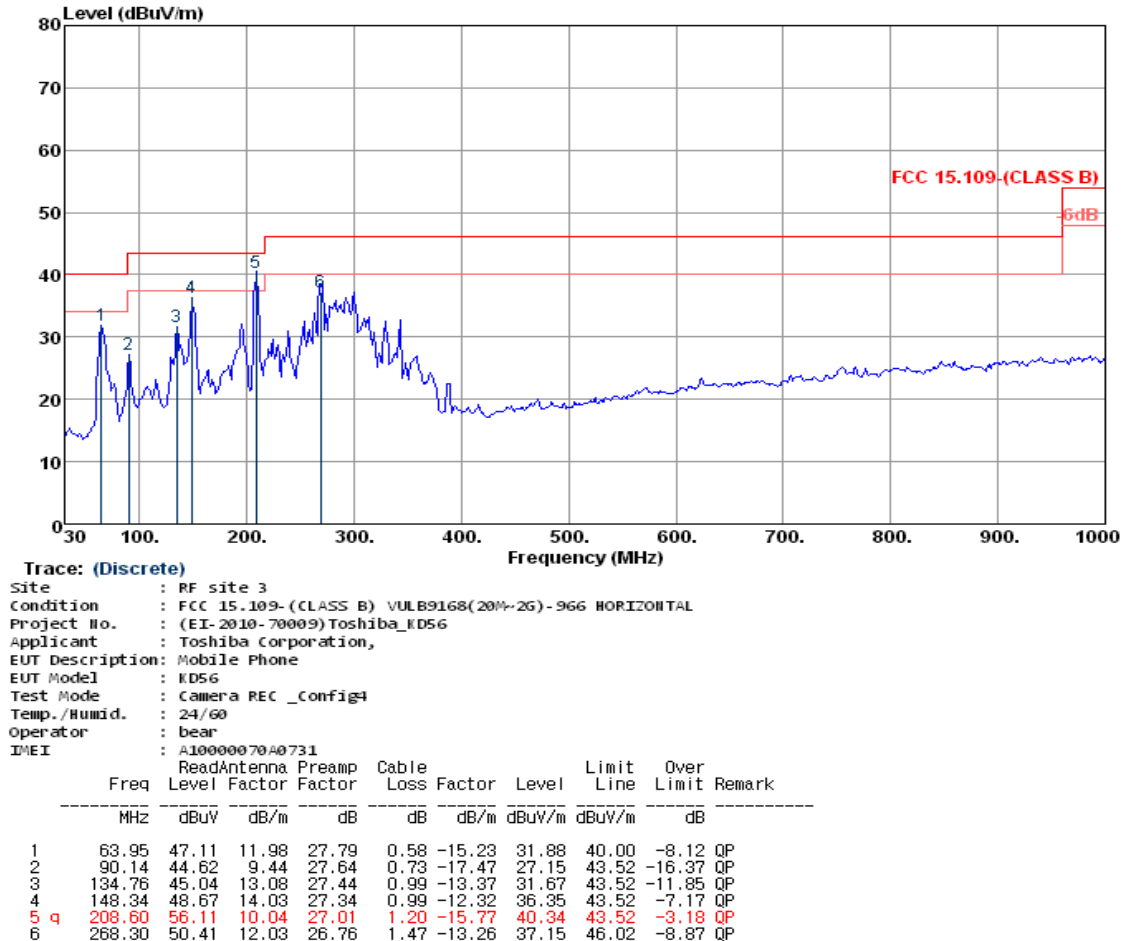
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Jul. 27, 2010
Test By: Bear



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

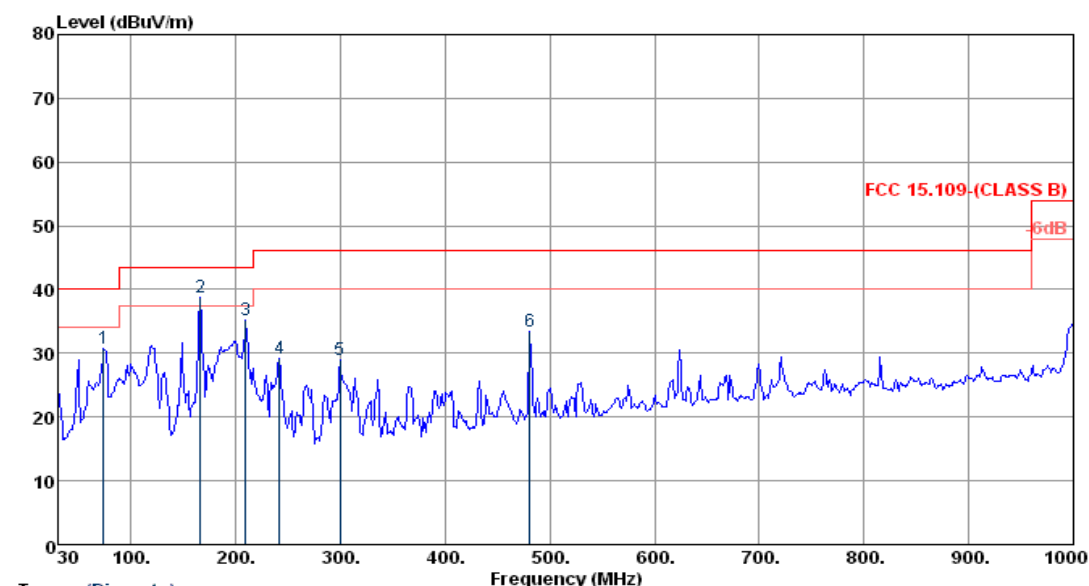
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Test Mode: Config 5
Frequency Range: 30MHz-1GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20M-2G)-966 VERTICAL
Project No. : (EI-2010-70009) Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Data link _Config5
Temp./Humid. : 24/60
operator : bear
IMEI : A10000070A0731

	Freq	Level	Factor	Factor	Cable	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	Loss	dB/m	dBuV/m	dB	
1	73.65	47.76	10.21	27.71	0.58	-16.92	30.84	40.00	-9.16 QP
2 q	165.80	51.29	13.56	27.20	1.10	-12.54	38.75	43.52	-4.77 QP
3	209.45	50.79	10.07	27.01	1.28	-15.66	35.13	43.52	-8.39 QP
4	241.46	43.26	11.47	26.82	1.37	-13.98	29.28	46.02	-16.74 QP
5	299.66	41.27	12.80	26.73	1.53	-12.40	28.87	46.02	-17.15 QP
6	481.05	42.79	16.28	27.61	1.97	-9.36	33.43	46.02	-12.59 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

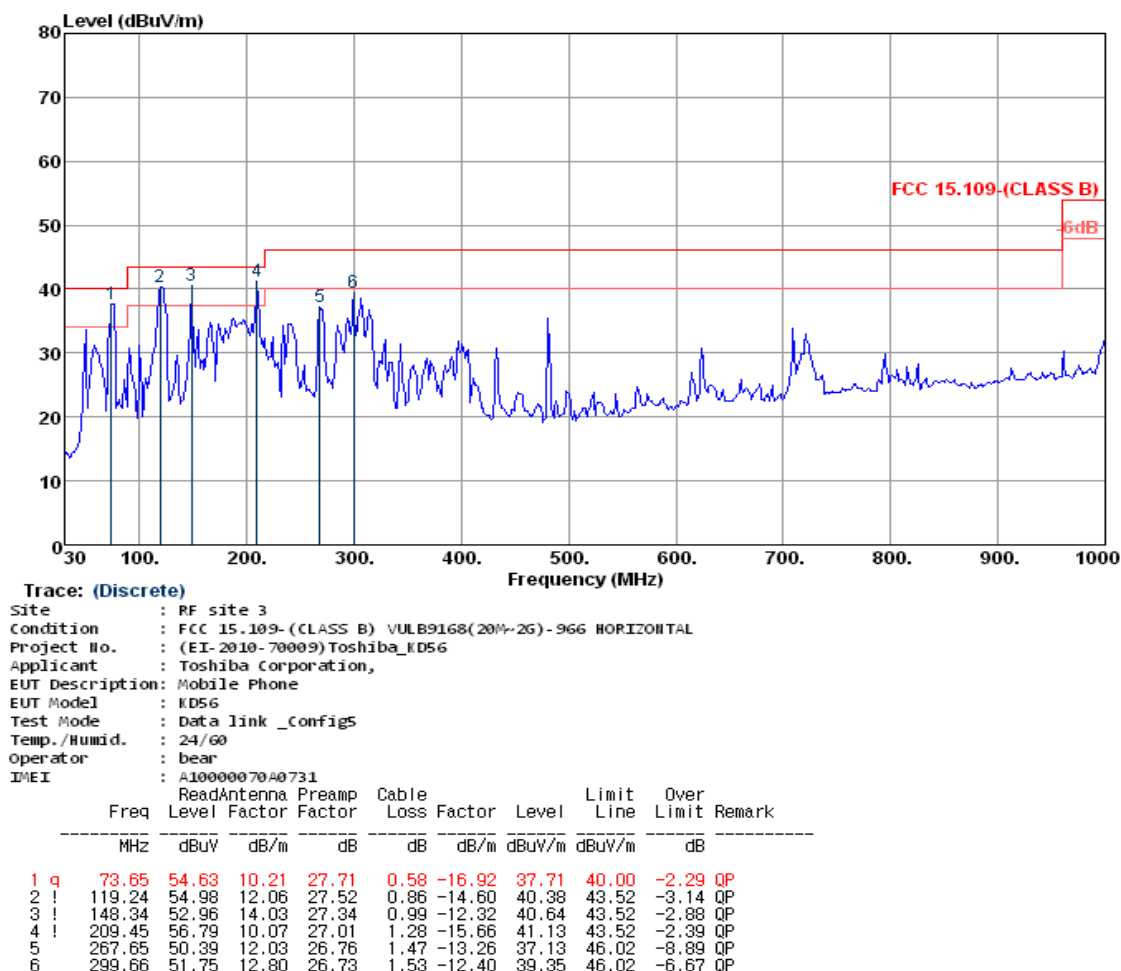
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Test Mode: Config 5
Frequency Range: 30MHz-1GHz

Test Date: Jul. 27, 2010
Test By: Bear



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

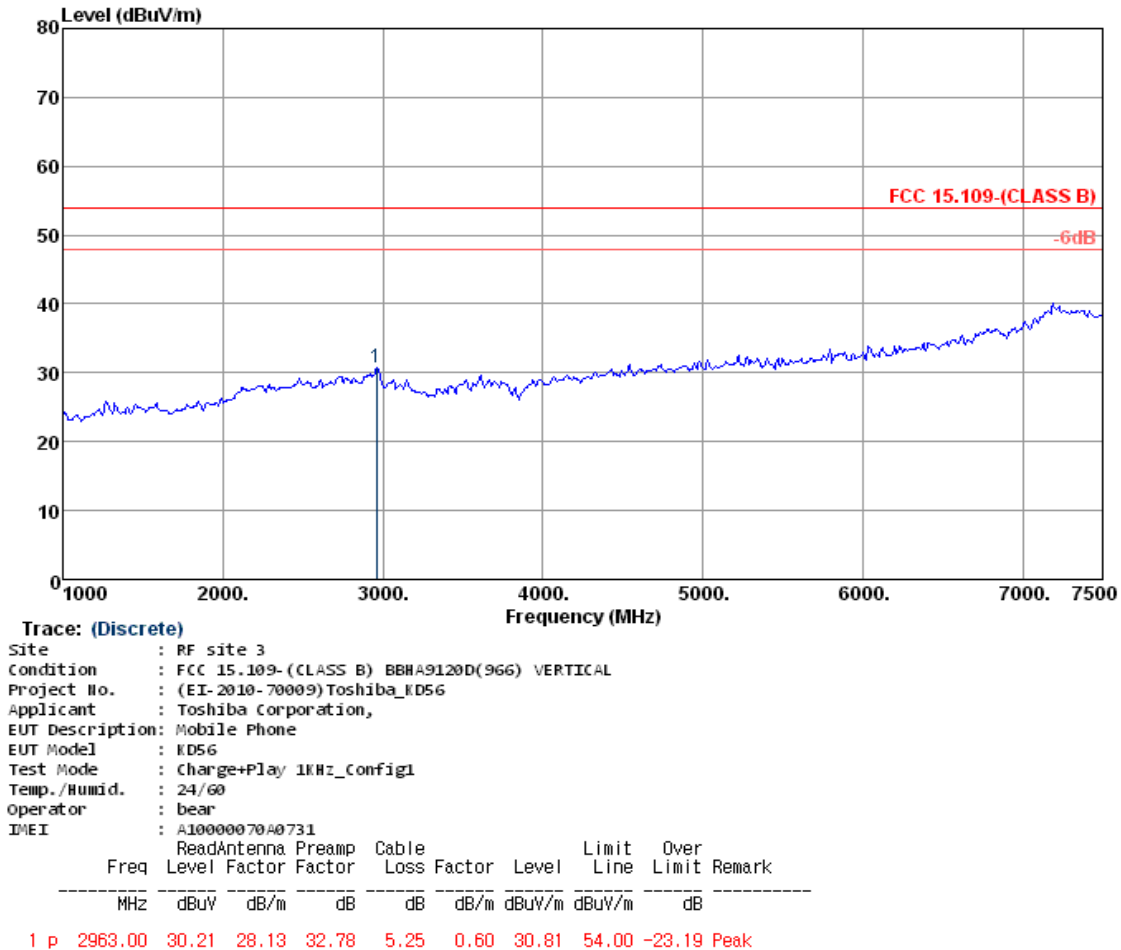
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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



Remark :

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

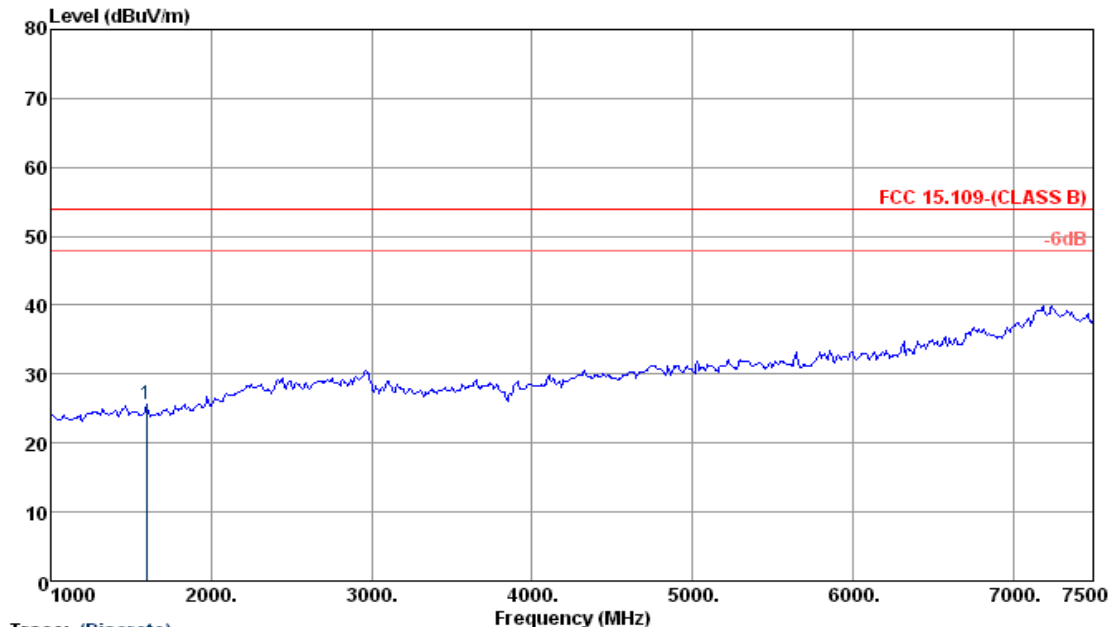
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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109- (CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-70009) Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Charge+Play 1KHz_Config1
Temp./Humid. : 24/60
Operator : bear
IMEI : A1000007040731

Freq	ReadAntenna	Preampl	Cable	Limit	Over	
MHz	Level	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m
1 p 1598.00	29.99	24.86	32.96	3.75	-4.35	25.64
						54.00
						-28.36
						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

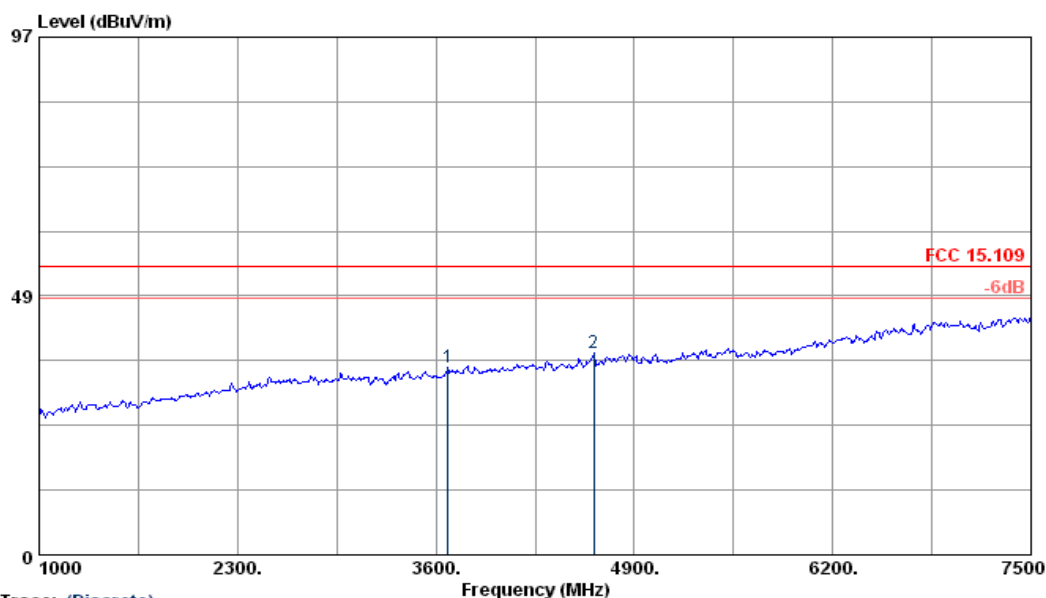
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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Condition : FCC 15.109 3m BBHA9120D VERTICAL
Project No. : EI-2010-30020
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : K01-KD
Test Mode : Play mode _config 2
Temp./Humid. : 22/58
Operator : Nick

	Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	3678.00	43.97	28.94	44.56	6.67	-8.95	35.02	54.00	-18.98	Peak
2 p	4633.50	44.15	30.88	44.27	6.95	-6.44	37.71	54.00	-16.29	Peak

Remark :

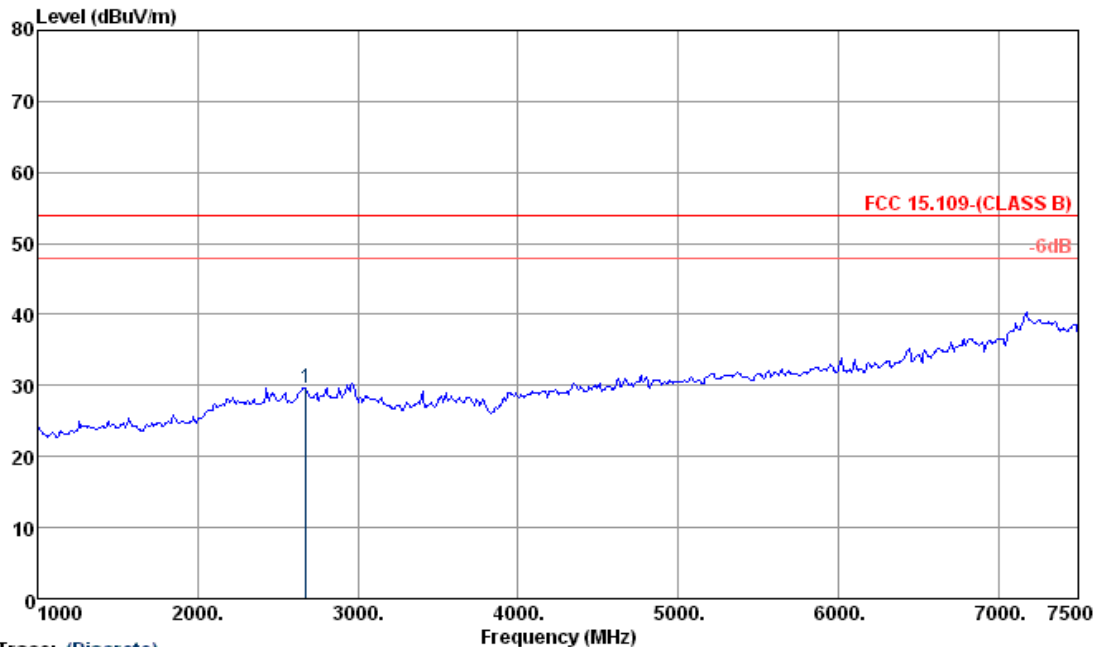
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Play 1MHz _config2
Temp./Humid. : 24/60
Operator : bear
IMEI : A10000070A0731

	Read	Antenna	Preamp	Cable	Limit	Over	
Freq	Level	Factor	Factor	Loss	Factor	Line	Limit Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m
1 p 2677.00	29.55	27.86	32.70	5.02	0.18	29.73	54.00 -24.27 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 7.5GHz was 1MHz

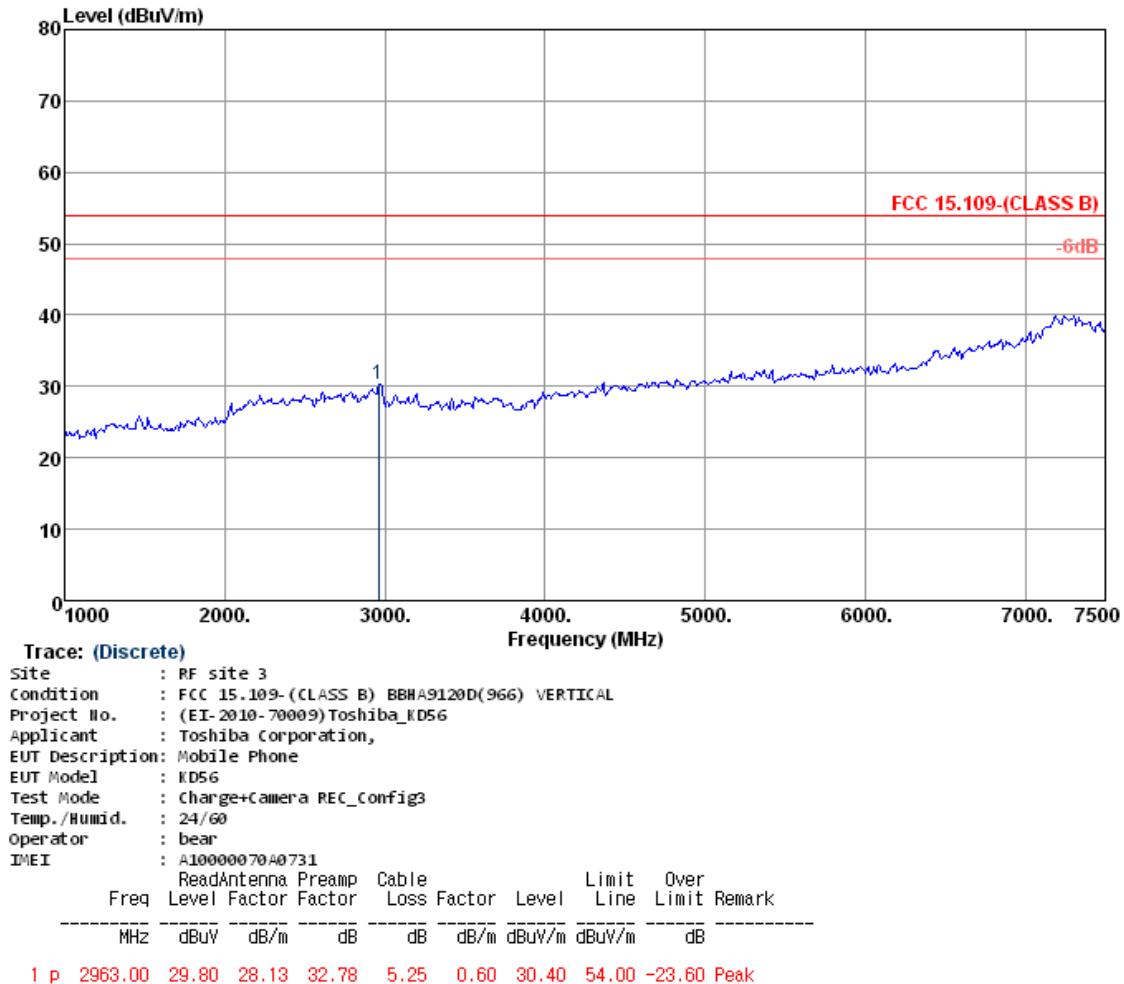
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



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

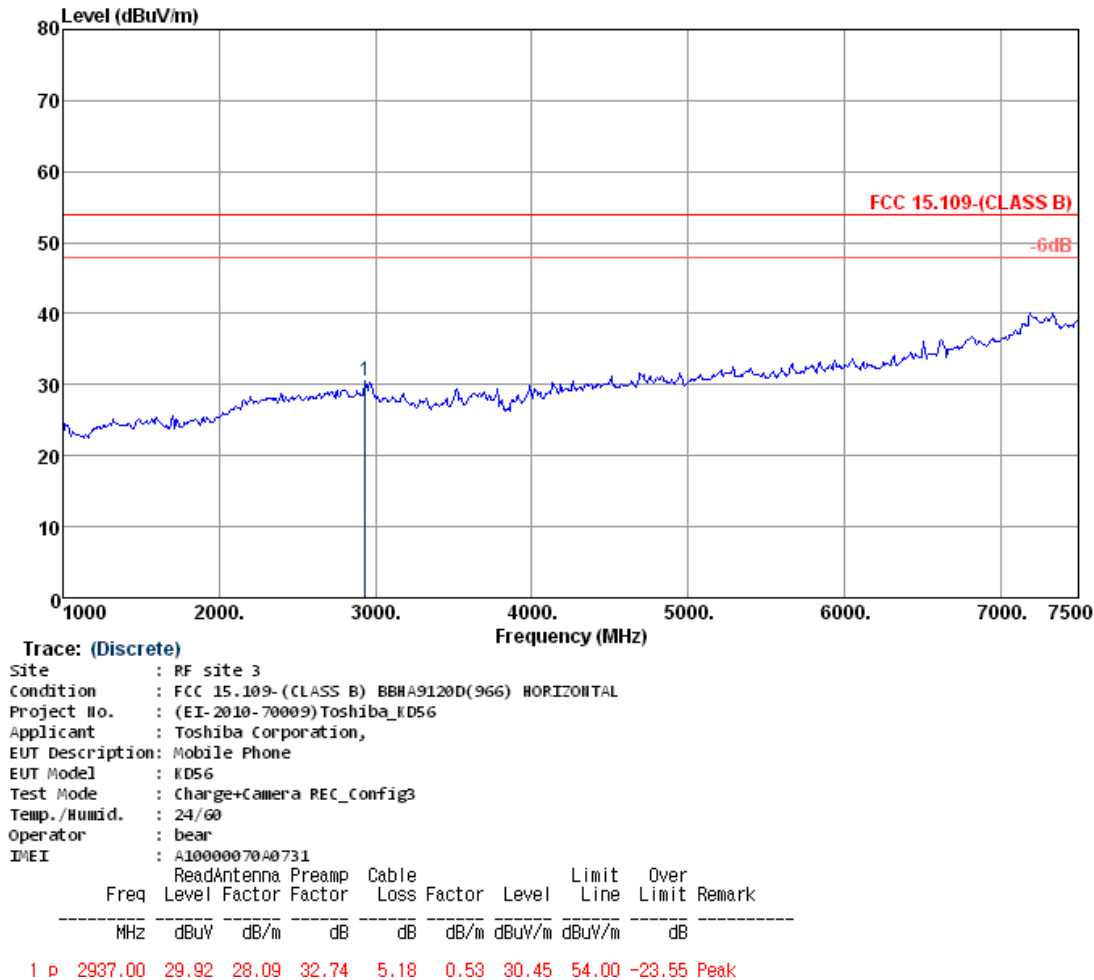
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



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

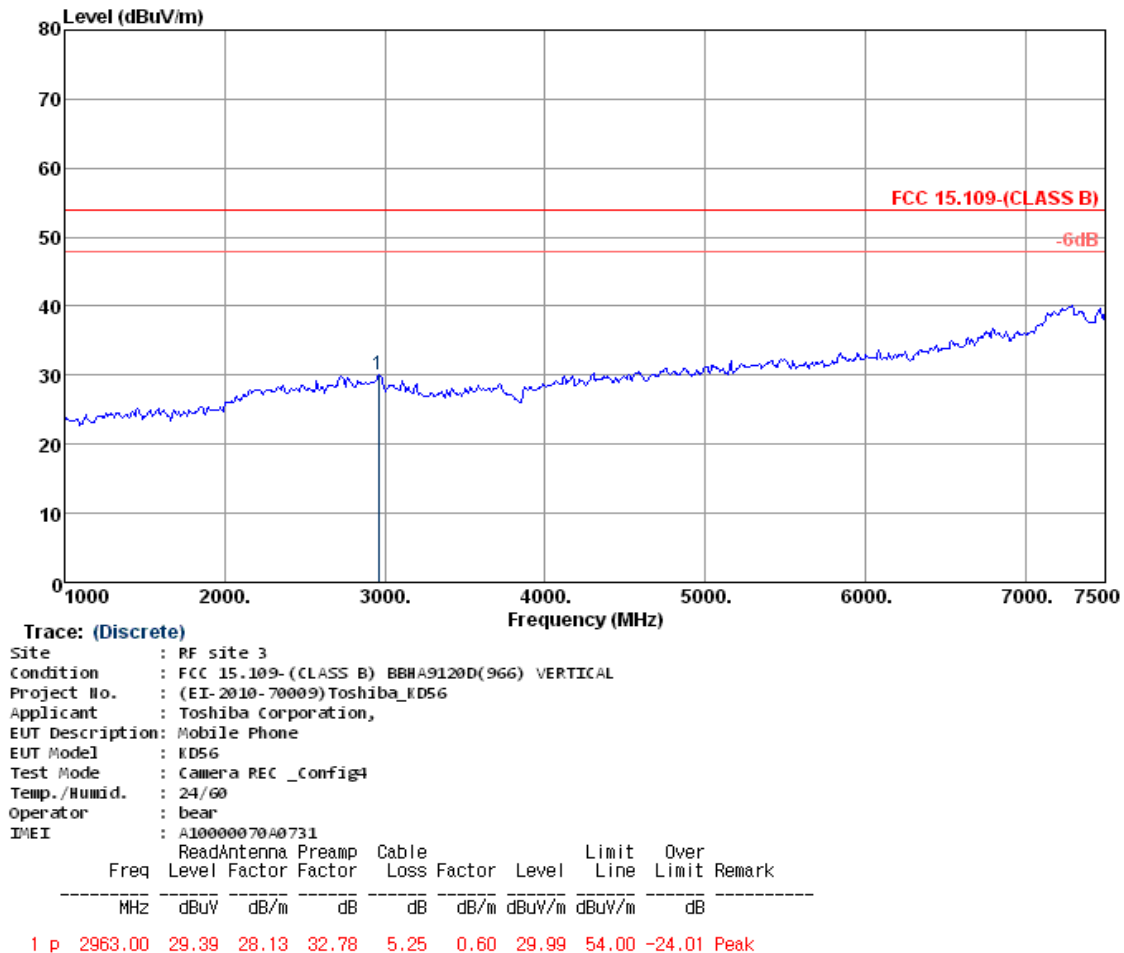
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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



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

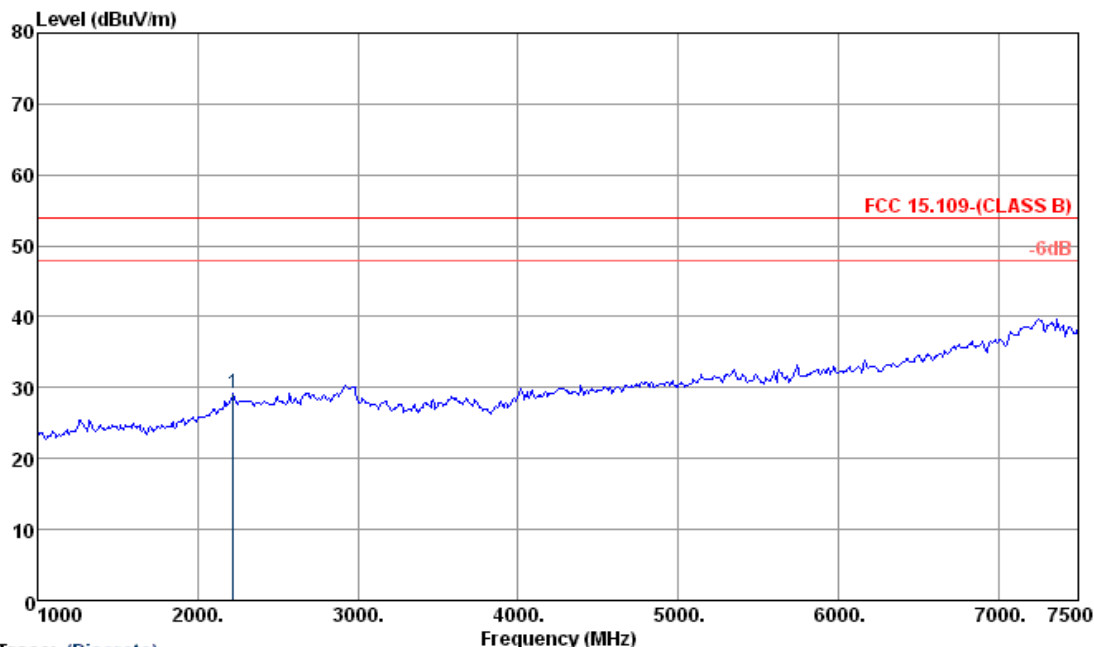
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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Camera REC _Config4
Temp./Humid. : 24/60
Operator : bear
IMEI : A10000070A0731

Freq	ReadAntenna	Preampl	Cable	Loss	Factor	Level	Limit	Over	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1 p 2222.00	29.59	27.82	32.81	4.48	-0.51	29.08	54.00	-24.92	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

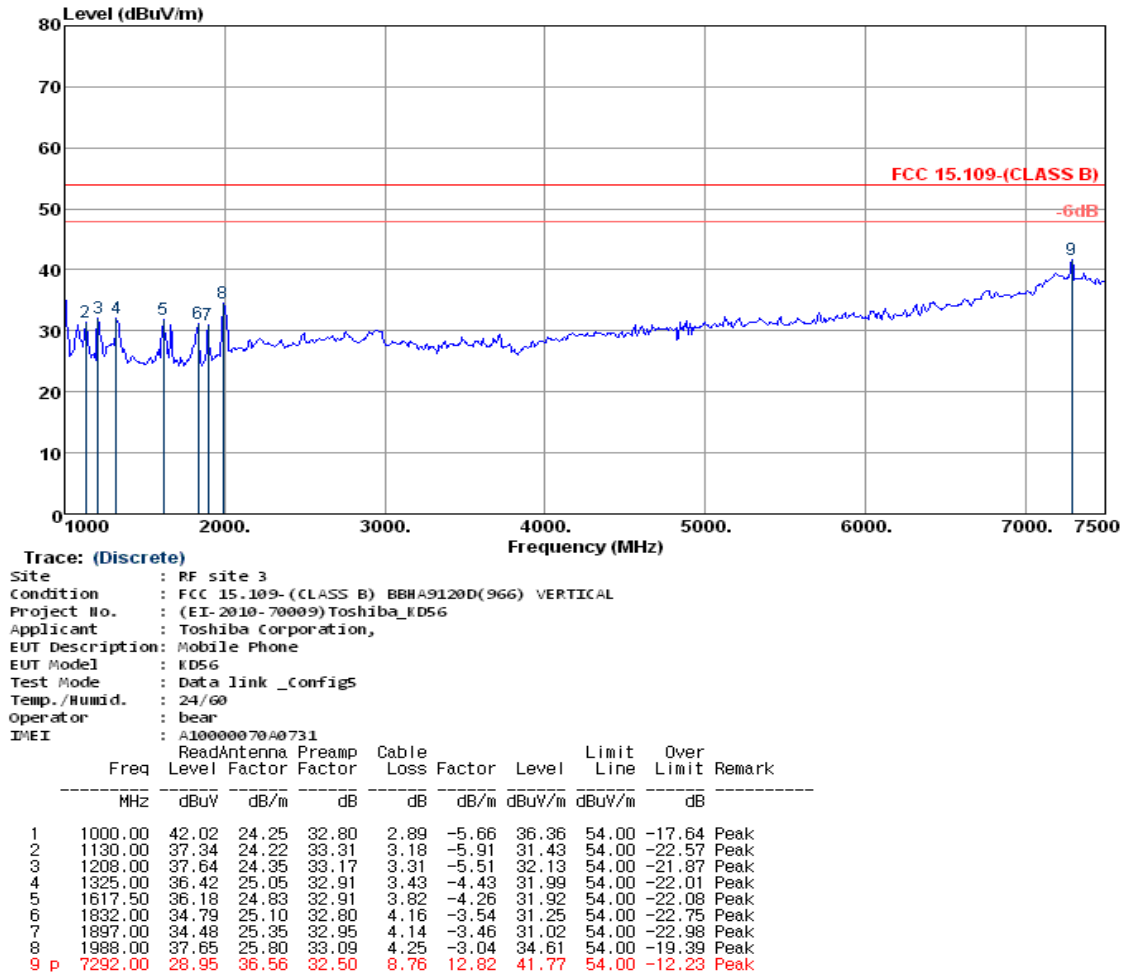
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Test Mode: Config 5
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



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

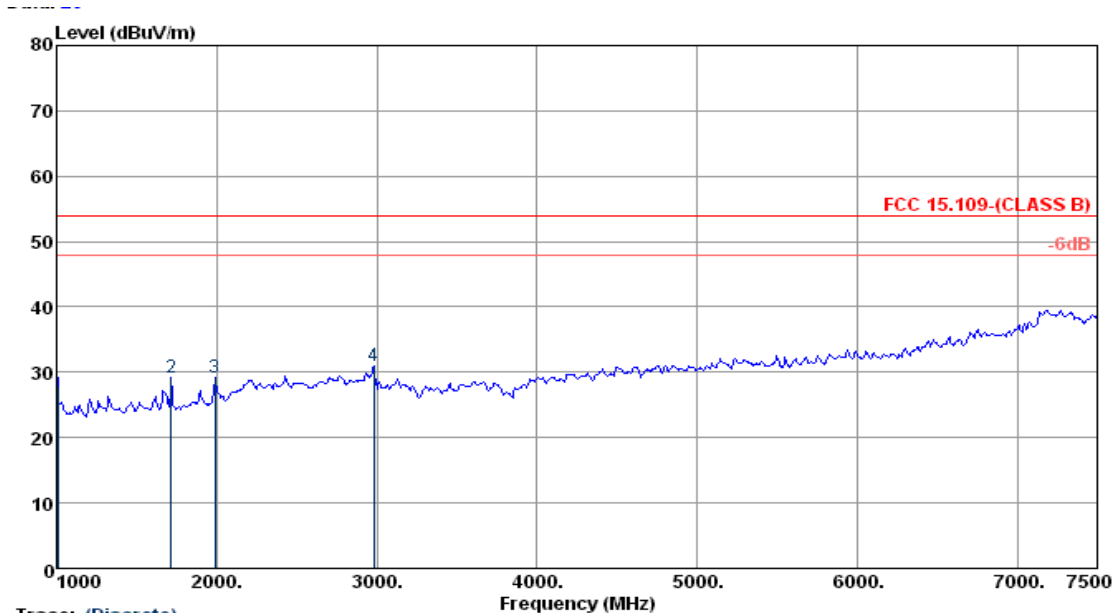
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Test Mode: Config 5
Frequency Range: 1GHz – 7.5GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Data link _configs
Temp./Humid. : 24/60
Operator : bear
IMEI : A1000007040731

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	Remark
1	1006.50	33.45	24.25	32.80	2.98	-5.57	27.88	54.00	-26.12 Peak
2	1715.00	33.46	24.74	32.99	3.94	-4.31	29.15	54.00	-24.85 Peak
3	1988.00	32.16	25.80	33.09	4.25	-3.04	29.12	54.00	-24.88 Peak
4 p	2982.50	30.19	28.20	32.82	5.38	0.76	30.95	54.00	-23.05 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

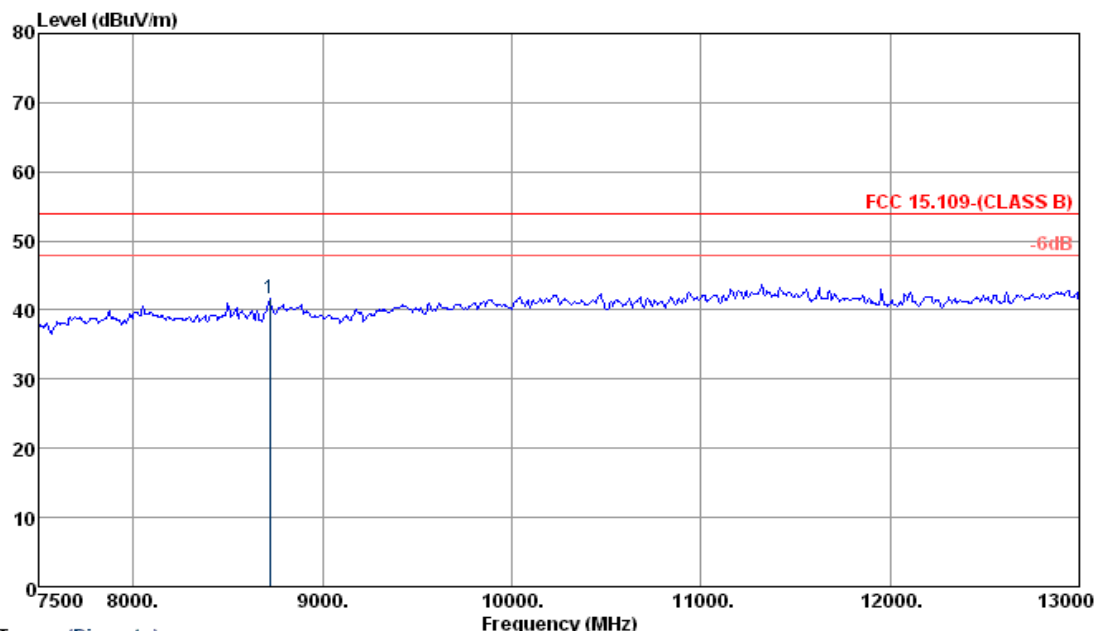
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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBH49120D(966) VERTICAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Charge+Play 1KHz_Config1
Temp./Humid. : 24/60
Operator : bear
IMEI : A1000007040731

	Read	Antenna	Preamp	Cable	Loss	Factor	Level	Limit	Over	
Freq	Level	Factor	Factor	Factor	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1 p 8721.00	26.55	37.39	32.08	9.72	15.03	41.58	54.00	-12.42	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 7.5GHz to 13GHz was 1MHz

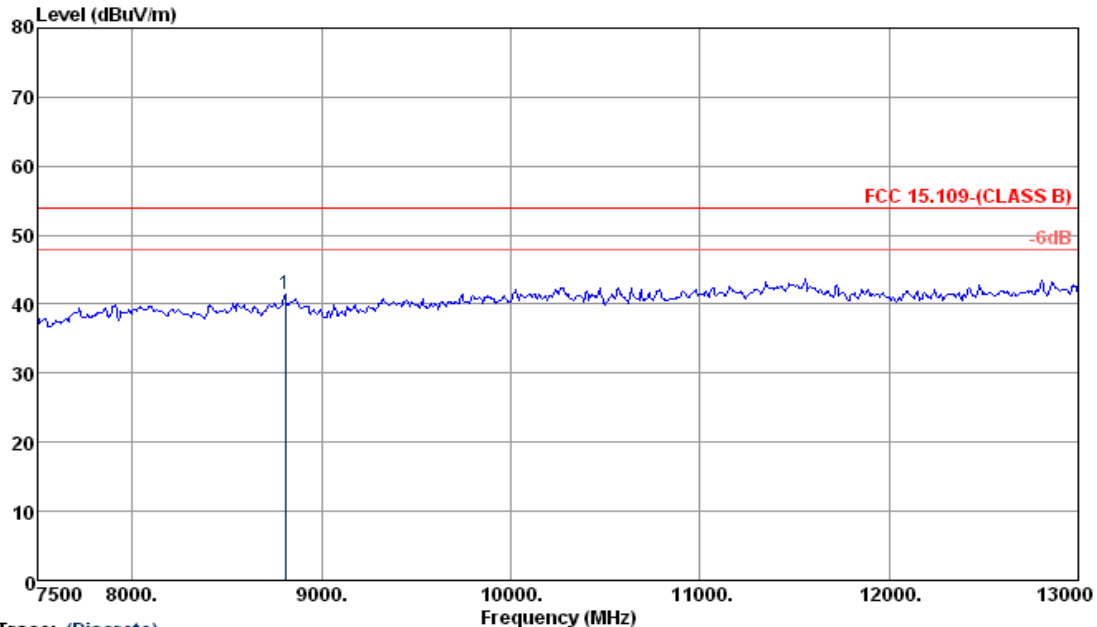
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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Charge+Play 1KHz_Config1
Temp./Humid. : 24/60
Operator : bear
IMEI : A1000007040731

Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 8809.00	26.30	37.52	32.18	9.77	15.11	41.41	54.00	-12.59	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

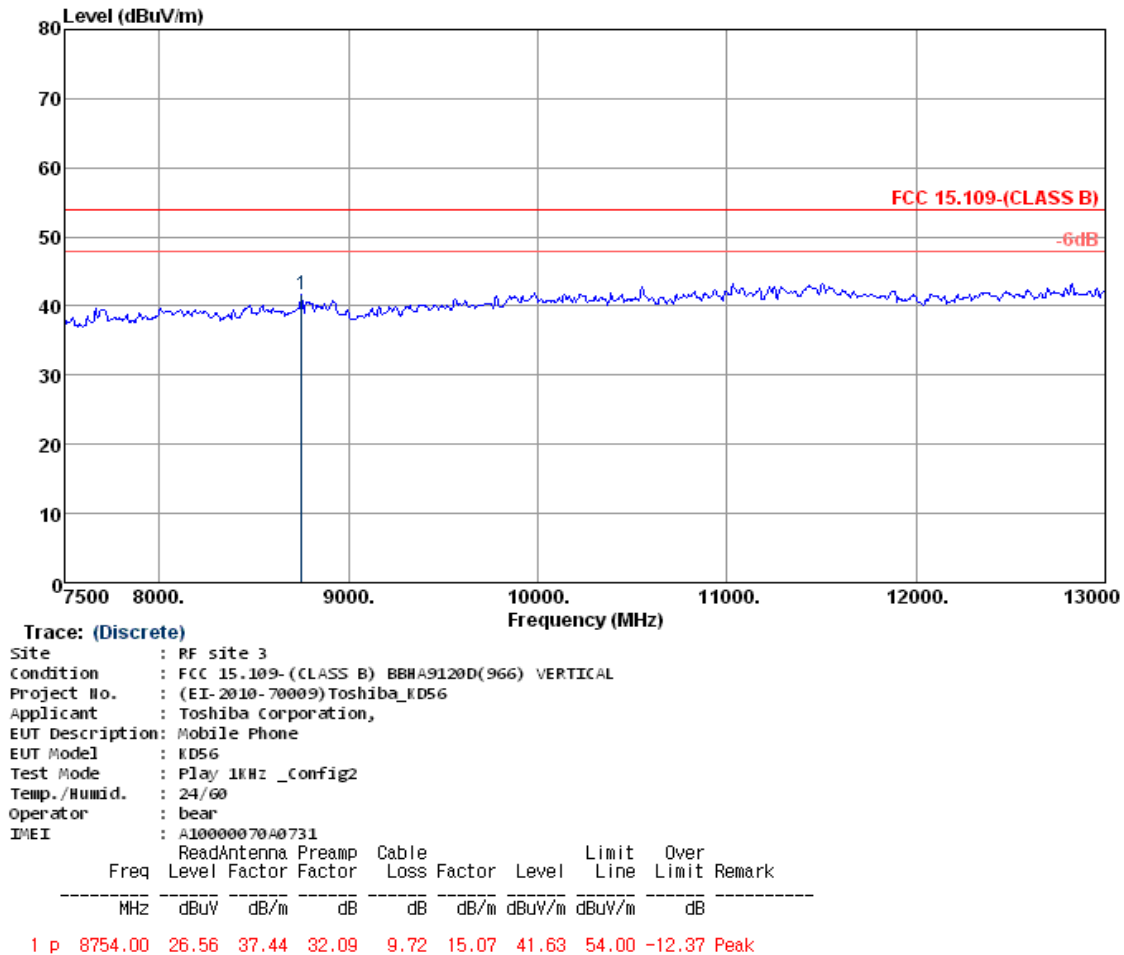
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Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Remark :

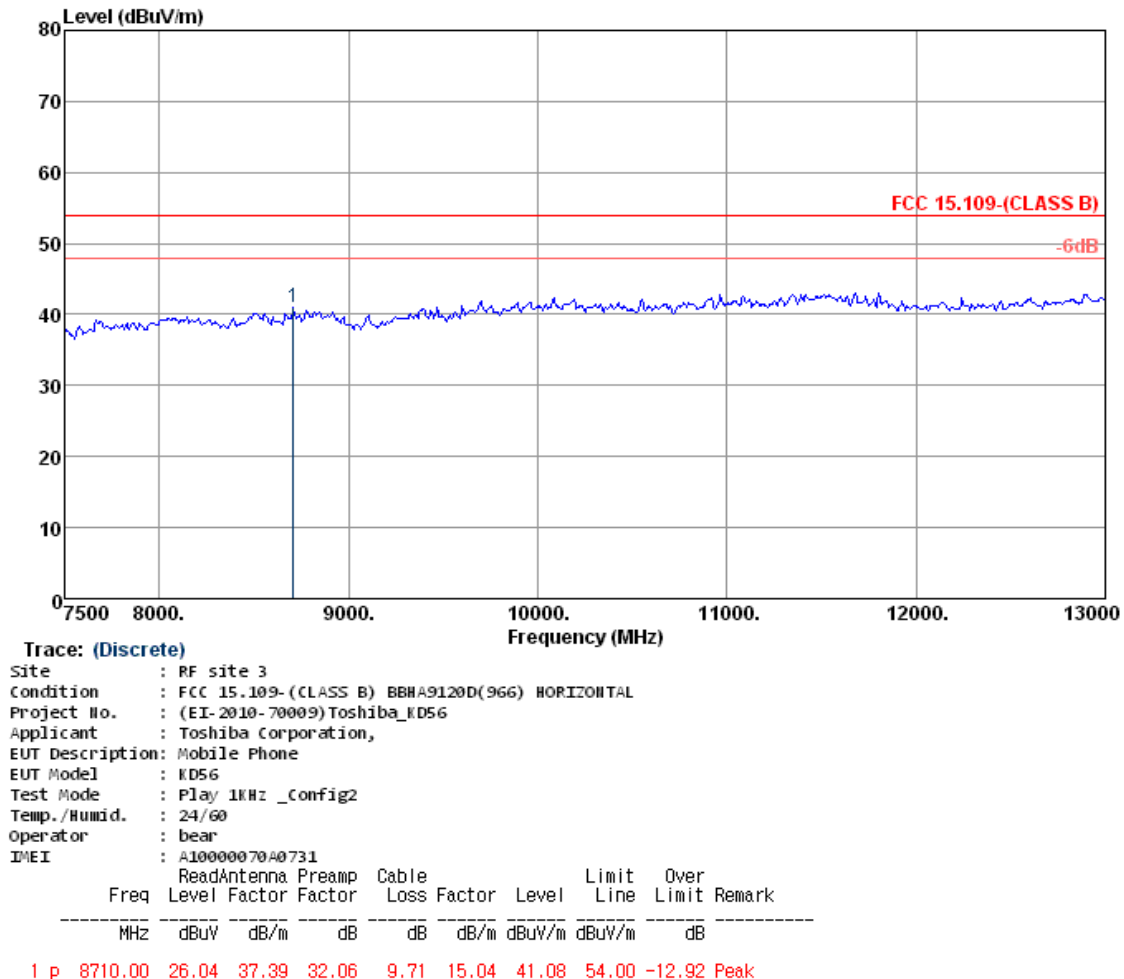
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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

Test Date : Jul. 27, 2010
Test By: Bear



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

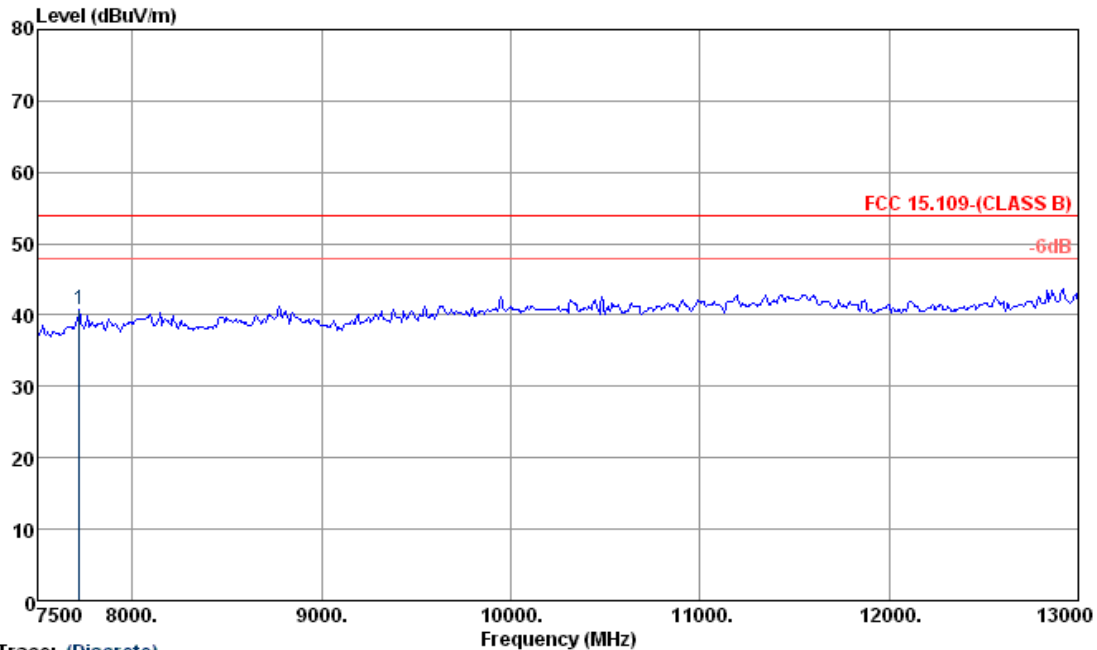
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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBH9120D(966) VERTICAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Charge+Camera REC_Config3
Temp./Humid. : 24/60
Operator : bear
IMEI : A1000007040731

Freq	Level	Factor	Preamp	Cable	Loss	Factor	Level	Limit	Over
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	Limit Remark
1 p 7720.00	27.81	36.52	32.65	9.05	12.92	40.73	54.00	-13.27	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 7.5GHz to 13GHz was 1MHz

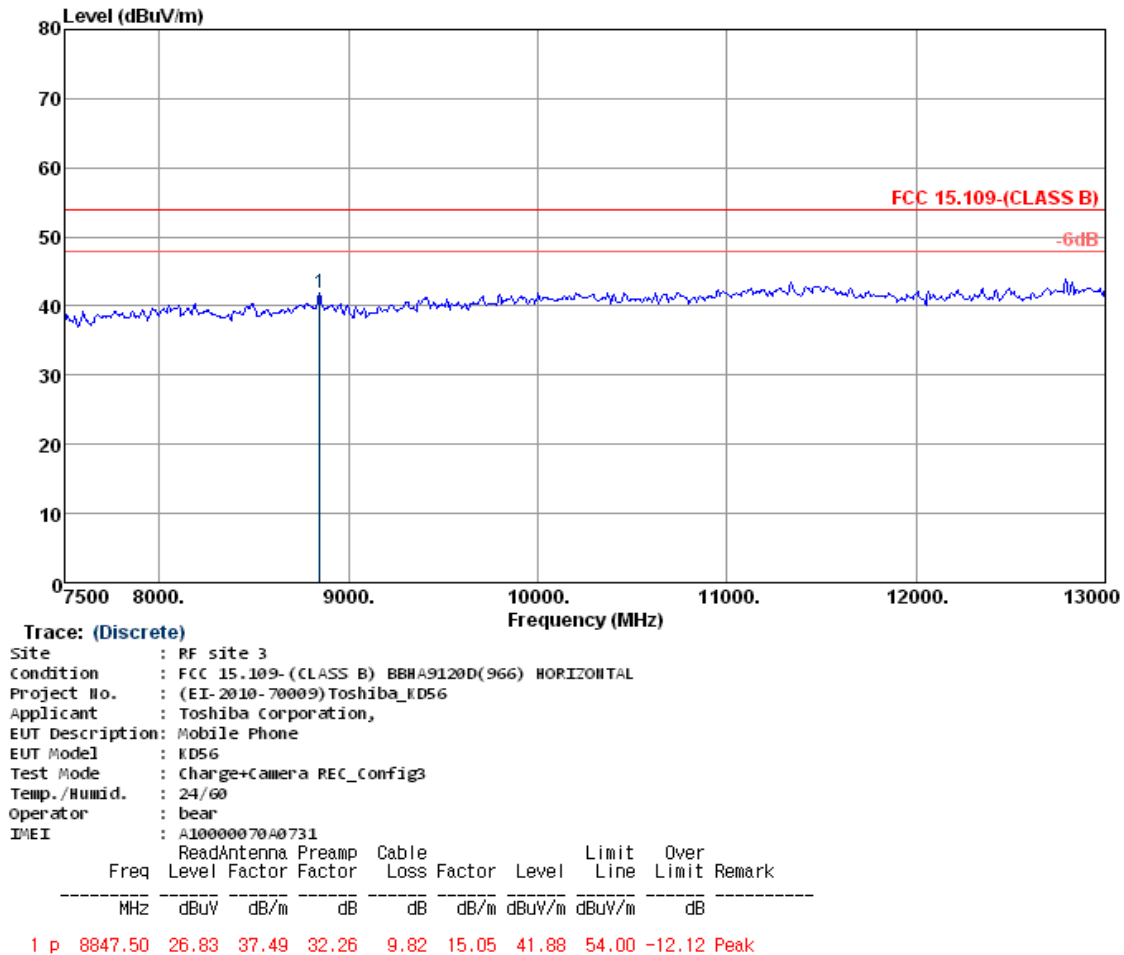
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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



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

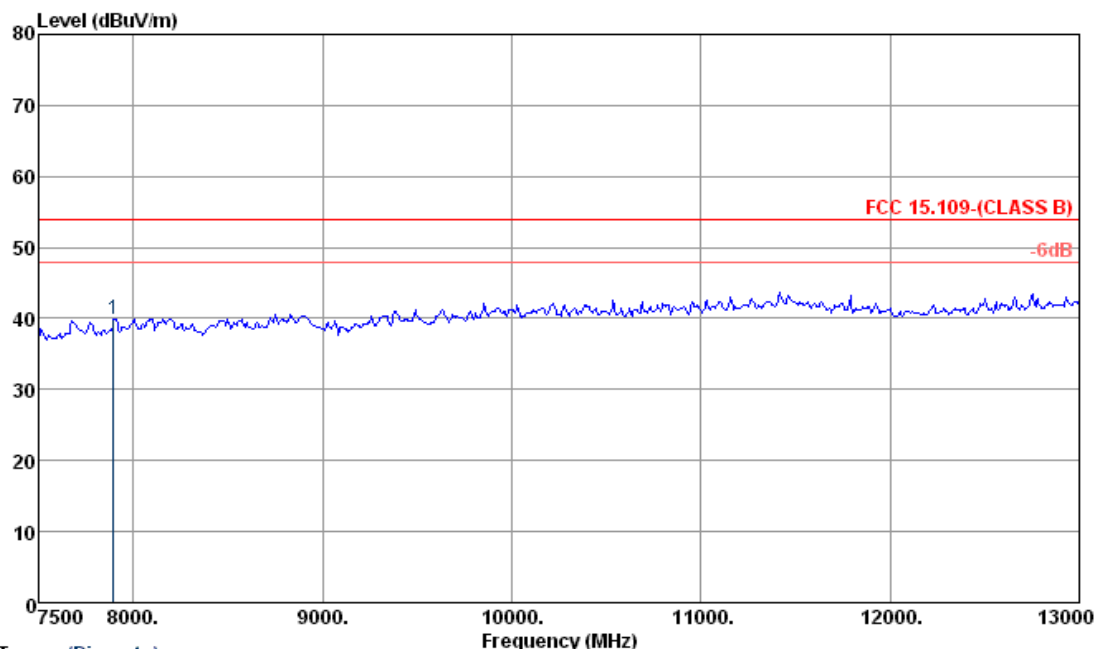
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Test Mode: Config 4
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Camera REC _config4
Temp./Humid. : 24/60
Operator : bear
IMEI : A10000070A0731

Freq	Level	Antenna	Preamp	Cable	Limit	Over	
MHz	dBuV	Factor	Factor	Loss	Factor	Level	Line
	dBuV/m	dB	dB	dB	dB/m	dBuV/m	dBuV/m
1 p 7896.00	26.44	36.82	32.52	9.18	13.48	39.92	54.00 -14.08 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 7.5GHz to 13GHz was 1MHz

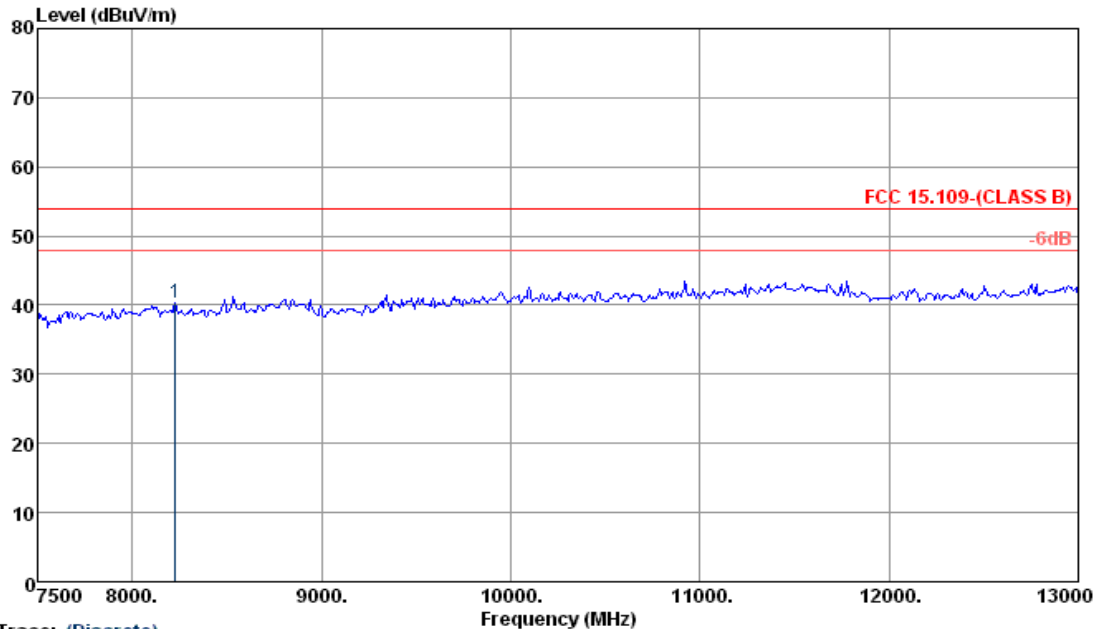
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Test Mode: Config 4
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Camera REC _Config4
Temp./Humid. : 24/60
Operator : bear
IMEI : A1000007040731

Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	
MHz	dBuV	Factor	Factor	Loss	dB/m	dBuV/m	dBuV/m	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 8226.00	26.68	36.67	32.28	9.36	13.75	40.43	54.00	-13.57	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

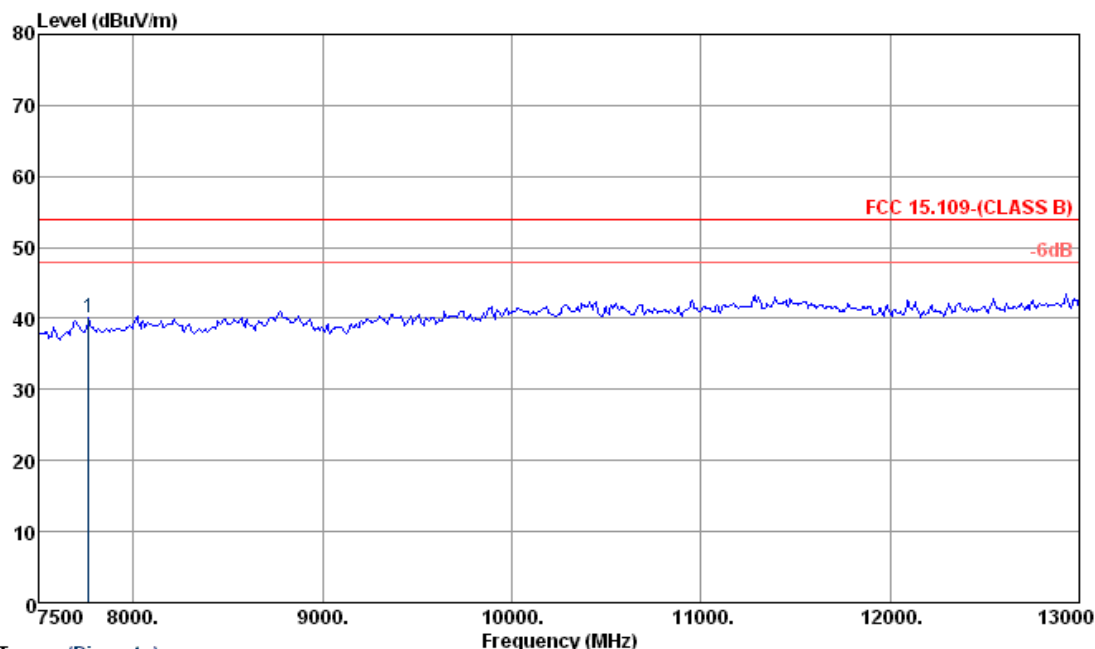
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Test Mode: Config 5
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-70009)Toshiba_KD56
Applicant : Toshiba Corporation,
EUT Description: Mobile Phone
EUT Model : KD56
Test Mode : Data link _config5
Temp./Humid. : 24/60
Operator : bear
IMEI : A10000070A0731

	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	7764.00	26.97	36.58	32.64	9.11	13.05	40.02	54.00 -13.98 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

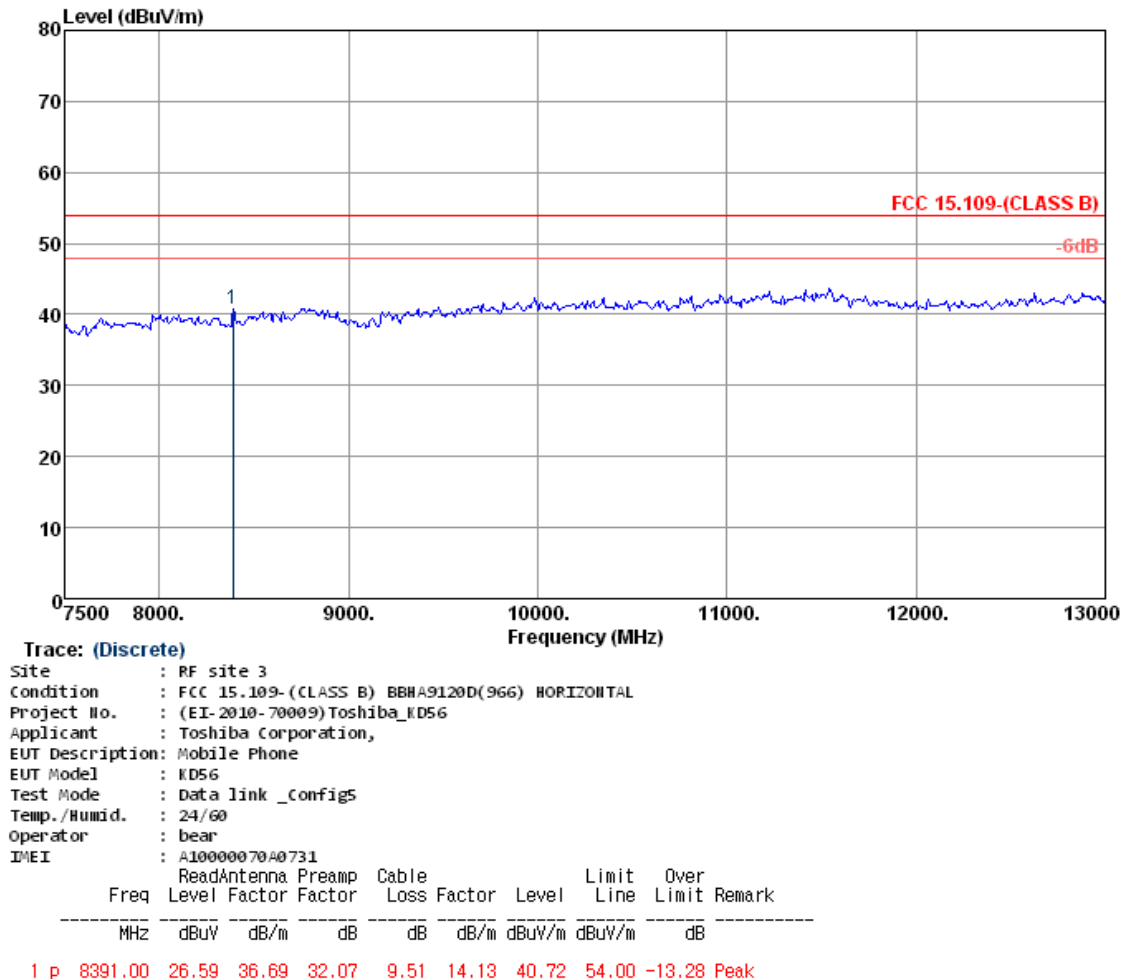
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Test Mode: Config 5
Frequency Range: 7.5GHz – 13GHz

Test Date : Jul. 27, 2010
Test By: Bear



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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