

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: TQ5-E01

FCC ID: SP2-TQ5-E01

Report No.: EI/2009/A0005

Issue Date: Nov. 09, 2009

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Toshiba Information Systems (UK) Ltd,
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VERIFICATION OF COMPLIANCE

Applicant: Toshiba Information Systems (UK) Ltd, Mobile Communications Division
Delta House, The crescent Southwood Business Park, Farnborough, GU14 0NL, UK

Product Name: TQ5-E01

FCC ID: SP2-TQ5-E01

File Number: EI/2009/A0005

Date of test: Oct. 14, 2009 ~ Oct. 30, 2009

Date of EUT Receive: Oct. 14, 2009

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:**Date:**

Nov. 09, 2009

Eric Su / Asst. Supervisor**Prepared By:****Date:**

Nov. 09, 2009

Eva Kao / Asst. Supervisor**Approved By:****Date:**

Nov. 09, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Nov. 09, 2009	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name	TQ5-E01	
Data Cable (USB)	Two provides, Model: HPC1508-010010, HPC1519-010010, Supplier: Hoshiden	
Simple Hands-free (SHF)	Model: HDH0669-010221(EARPHONE), KRJ0003-010020 (MIC), Supplier: Hoshiden	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	Model No.: ES032ECJ (TS-BTR008), Supplier: Sanyo GS
	Adapter:	Model: TS-ACC001-EU, TS-ACC001-UK Supplier: BYD Company Limited

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS/EDGE 850, Class 12	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS/EDGE 900, Class 12	880.2MHz – 914.8MHz	33 dBm
	GSM/GPRS/EDGE 1800, Class 12	1710.2MHz – 1784.8MHz	30 dBm
	GSM/GPRS/EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band I	1922.4MHz –1977.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band VIII	882.4MHz –912.6MHz	24 dBm
Hardware Version:	CS1		
Software Version:	N/A		
IMEI:	004401127000901		

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WLAN: 802.11 b/g:

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Transmit Power:	☒ 802.11 b: 17.33dBm (Peak) ☒ 802.11 g: 15.87dBm (Peak)
Modulation Technology:	☒ DSSS, ☒ OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	PIFA Antenna, 0.7dBi.

Bluetooth:

Bluetooth Version:	V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	-0.12 dBm (Peak)
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$
Operating Mode:	Point-to-Point
Antenna Designation:	PIFA Antenna, 0.7dBi.

GPS:

Receiver Frequency	L1 Band, 1575.42MHz
Frequency Conversion oscillator	19.2MHz
Antenna Designation	mono pole

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **SP2-TQ5-E01** 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.

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.

2.4 Limitation

(1) Conducted Emission

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

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1. The lower limit shall apply at the transition frequencies		
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

(2) Radiated Emission

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

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

Remark: 1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\text{uV/m})$
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (config 1, 5)

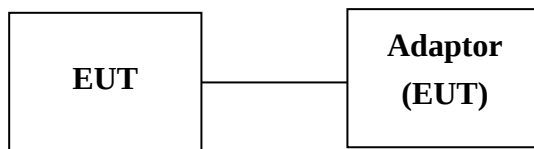


Fig. 2-2 Configuration of Tested System (config 2)

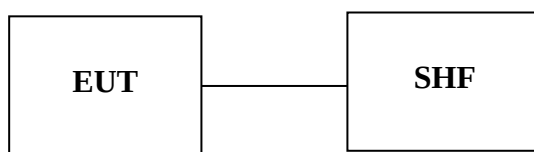


Fig. 2-3 Configuration of Tested System (config 3)

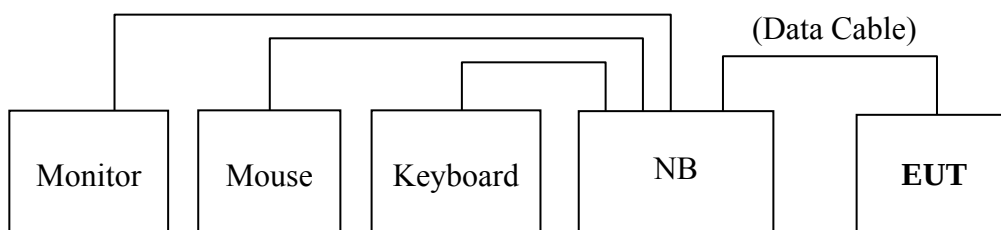


Fig. 2-4 Configuration of Tested System (config 4)

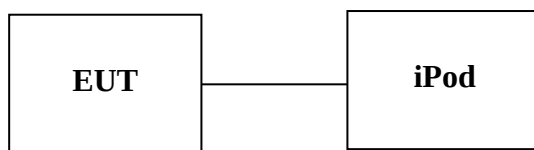
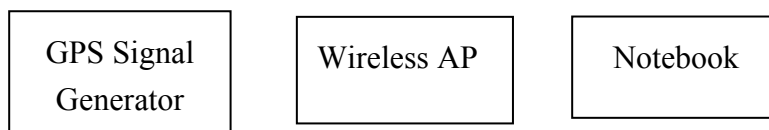


Fig. 2-5 Configuration of Tested System (Remote Side)



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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	R61	L3A9050	DoC	Un-shielded	Un-shielded
2.	Mouse	HP	MO19UCA	020506990	DoC	Un-shielded	N/A
3.	Keyboard	HP	KB0316	BC3520GGAX 301R	DoC	Un-shielded	N/A
4.	Monitor	HP	HSTND-2F02	CND7122S7B	DoC	Un-shielded	Un-shielded
5.	USB Cable	N/A	N/A	N/A	N/A	1.1m, Un-Shielded	N/A
6.	Wireless AP	BUFFALO	WHR-HP-G54	N/A	FDI-0911577-0	N/A	Un-shielded
7.	GPS Signal Generator	WELNAVIG ATE INC.	GS 50	607492	N/A	N/A	Un-shielded
8.	iPod nano	APPLE	A1137	6U6025WCS2B	DoC	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:

TQ5-E01	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 + Data Cable (Slave)	UE + Battery + Data Cable (Host)	UE + Battery + AC Adaptor
Description	Video	Music	Data Cable	Data Cable	GPS + BT + WLAN
radiated emission	Charge + REC mode	Play mode	Data link	Data link	Operation
conducted emission (AC Power)	Charge + REC mode	N/A	Data link	N/A	Operation

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5.3 Measurement Equipment Used:

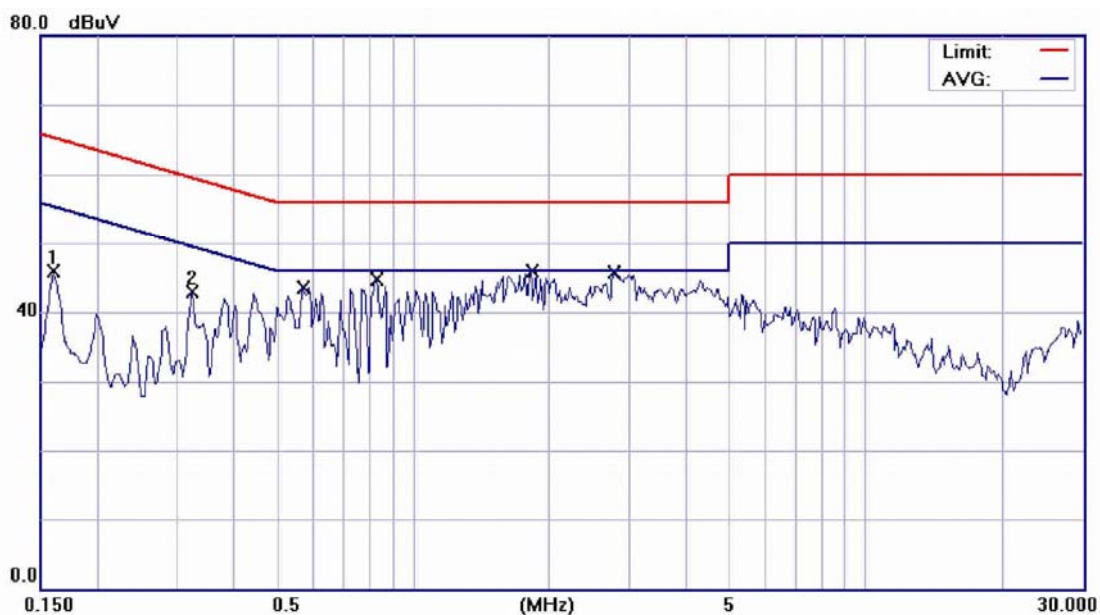
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2009	09/15/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2009	02/17/2010
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/18/2009	02/17/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

5.4 Measurement Result

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

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Oct. 29, 2009
		Test By:	Eric



Site SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Toshiba

Distance:

Air Pressure: hpa

M/N: TG0200

Note: Charge+REC mode_config1

IMEI: 004401121003004

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1600	45.82	0.16	45.98	65.46	-19.48	peak	
2		0.3250	42.80	0.10	42.90	59.58	-16.68	peak	
3		0.5695	41.15	0.07	41.22	56.00	-14.78	QP	
4		0.5695	32.72	0.07	32.79	46.00	-13.21	AVG	
5		0.8291	43.55	0.08	43.63	56.00	-12.37	QP	
6		0.8291	31.15	0.08	31.23	46.00	-14.77	AVG	
7	*	1.8200	43.88	0.12	44.00	56.00	-12.00	QP	
8		1.8200	32.19	0.12	32.31	46.00	-13.69	AVG	
9		2.7709	42.47	0.14	42.61	56.00	-13.39	QP	
10		2.7709	30.89	0.14	31.03	46.00	-14.97	AVG	

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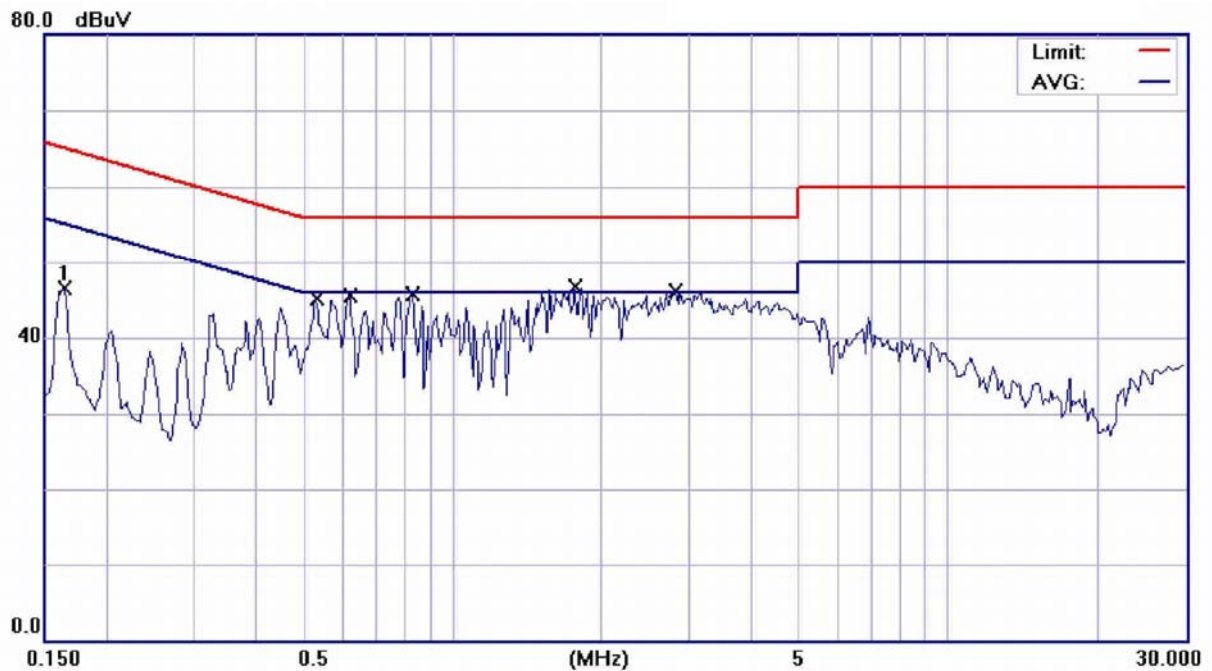
No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路 134 號

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f (886-2) 2298-0488

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Toshiba

Distance:

Air Pressure: hpa

M/N: TG0200

Note: Charge+REC mode_config1

IMEI: 004401121003004

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	46.28	0.18	46.46	65.21	-18.75	peak	
2		0.5292	41.27	0.10	41.37	56.00	-14.63	QP	
3		0.5292	29.61	0.10	29.71	46.00	-16.29	AVG	
4		0.6184	43.70	0.10	43.80	56.00	-12.20	QP	
5		0.6184	33.65	0.10	33.75	46.00	-12.25	AVG	
6	*	0.8288	44.64	0.11	44.75	56.00	-11.25	QP	
7		0.8288	31.51	0.11	31.62	46.00	-14.38	AVG	
8		1.7729	44.11	0.14	44.25	56.00	-11.75	QP	
9		1.7729	30.33	0.14	30.47	46.00	-15.53	AVG	
10		2.8208	43.56	0.16	43.72	56.00	-12.28	QP	
11		2.8208	28.28	0.16	28.44	46.00	-17.56	AVG	

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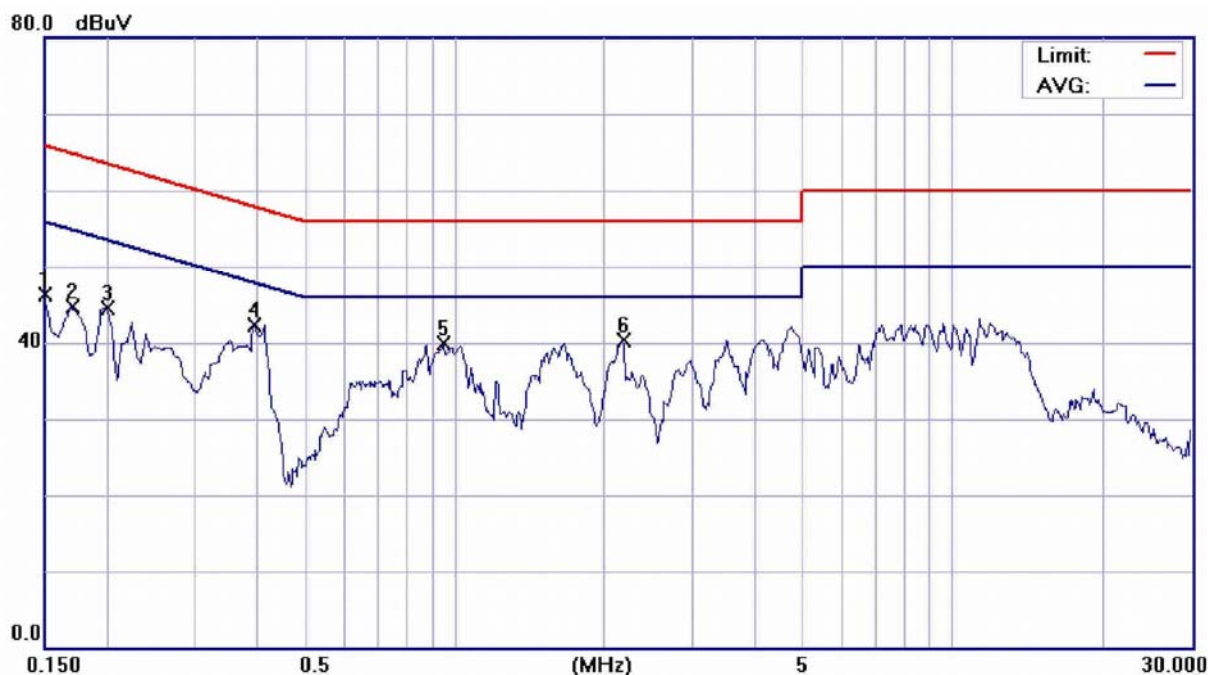
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Oct. 29, 2009
		Test By:	Eric



Site SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Toshiba

Distance:

Air Pressure: hpa

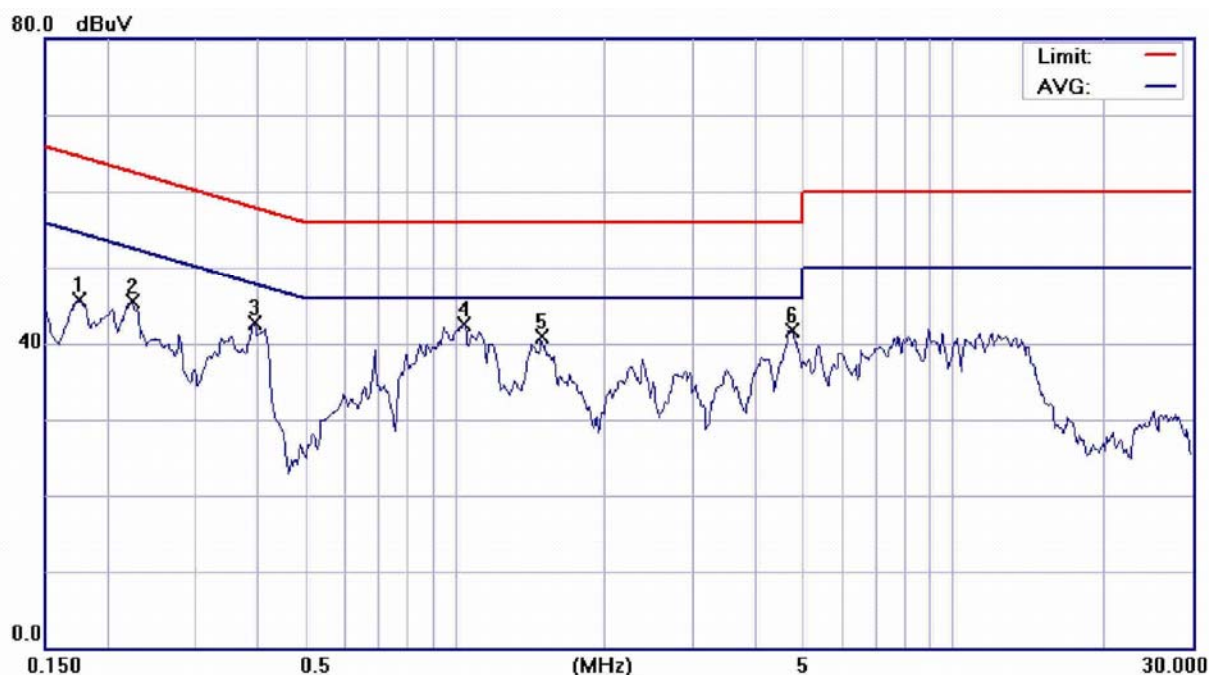
M/N: TG0200

Note: Data link_config 3

IMEI: 004401121003004

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV	dB	Detector	Comment
1		0.1500	46.09	0.18	46.27	66.00	-19.73	peak	
2		0.1700	44.48	0.15	44.63	64.96	-20.33	peak	
3		0.2000	44.39	0.12	44.51	63.61	-19.10	peak	
4	*	0.3950	42.26	0.08	42.34	57.96	-15.62	peak	
5		0.9500	39.82	0.09	39.91	56.00	-16.09	peak	
6		2.1800	40.15	0.13	40.28	56.00	-15.72	peak	

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Toshiba

Distance:

Air Pressure: hpa

M/N: TG0200

Note: Data link_config 3

IMEI: 004401121003004

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1750	45.47	0.17	45.64	64.72	-19.08	peak	
2		0.2250	45.41	0.14	45.55	62.63	-17.08	peak	
3		0.3950	42.54	0.11	42.65	57.96	-15.31	peak	
4	*	1.0430	42.43	0.12	42.55	56.00	-13.45	peak	
5		1.4900	40.69	0.13	40.82	56.00	-15.18	peak	
6		4.7400	41.59	0.18	41.77	56.00	-14.23	peak	

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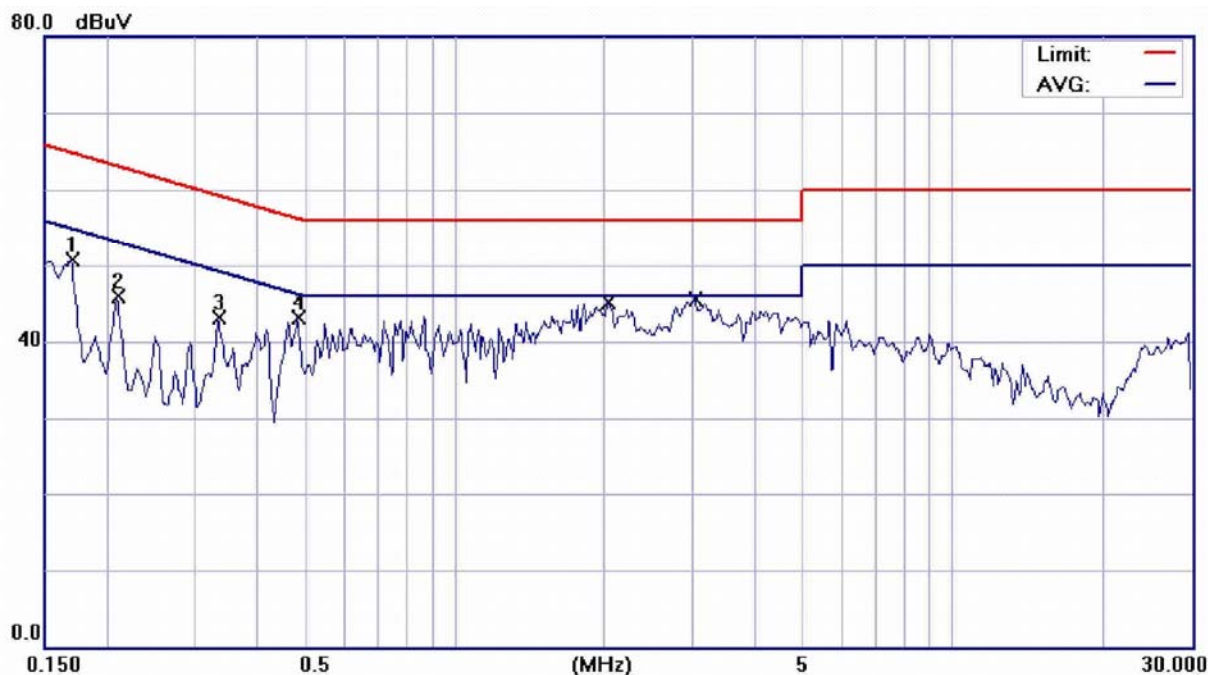
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 5	Test Date:	Oct. 29, 2009
		Test By:	Eric



Site SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Toshiba

Distance:

Air Pressure: hpa

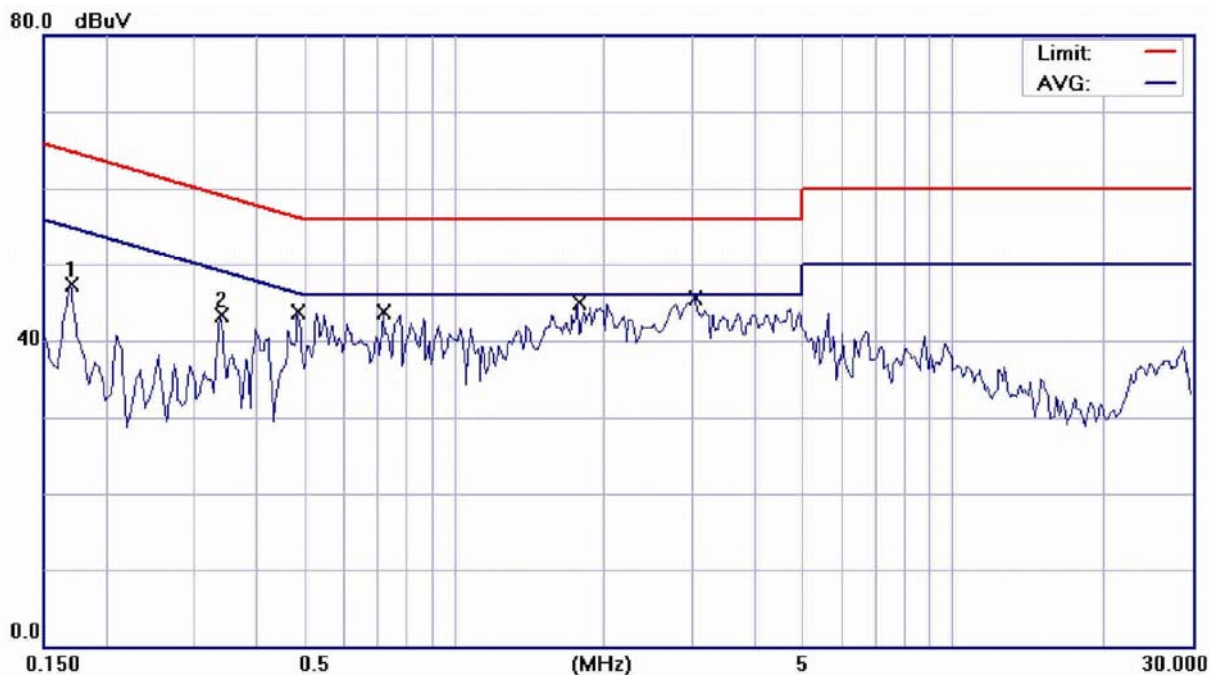
M/N: TG0200

Note: GPS_config 5

IMEI: 004401121003004

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	50.61	0.15	50.76	64.96	-14.20	peak	
2		0.2100	45.70	0.12	45.82	63.21	-17.39	peak	
3		0.3350	42.99	0.09	43.08	59.33	-16.25	peak	
4		0.4850	42.98	0.07	43.05	56.25	-13.20	peak	
5		2.0313	42.61	0.13	42.74	56.00	-13.26	QP	
6		2.0313	32.16	0.13	32.29	46.00	-13.71	AVG	
7	*	3.0308	43.89	0.14	44.03	56.00	-11.97	QP	
8		3.0308	30.06	0.14	30.20	46.00	-15.80	AVG	

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Toshiba

Distance:

Air Pressure: hpa

M/N: TG0200

Note: GPS_config 5

IMEI: 004401121003004

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	47.15	0.17	47.32	64.96	-17.64	peak	
2		0.3400	43.21	0.12	43.33	59.20	-15.87	peak	
3		0.4878	39.25	0.10	39.35	56.21	-16.86	QP	
4		0.4878	27.50	0.10	27.60	46.21	-18.61	AVG	
5		0.7202	39.80	0.11	39.91	56.00	-16.09	QP	
6		0.7202	24.25	0.11	24.36	46.00	-21.64	AVG	
7	*	1.7771	43.01	0.14	43.15	56.00	-12.85	QP	
8		1.7771	29.67	0.14	29.81	46.00	-16.19	AVG	
9		3.0357	41.89	0.16	42.05	56.00	-13.95	QP	
10		3.0357	27.50	0.16	27.66	46.00	-18.34	AVG	

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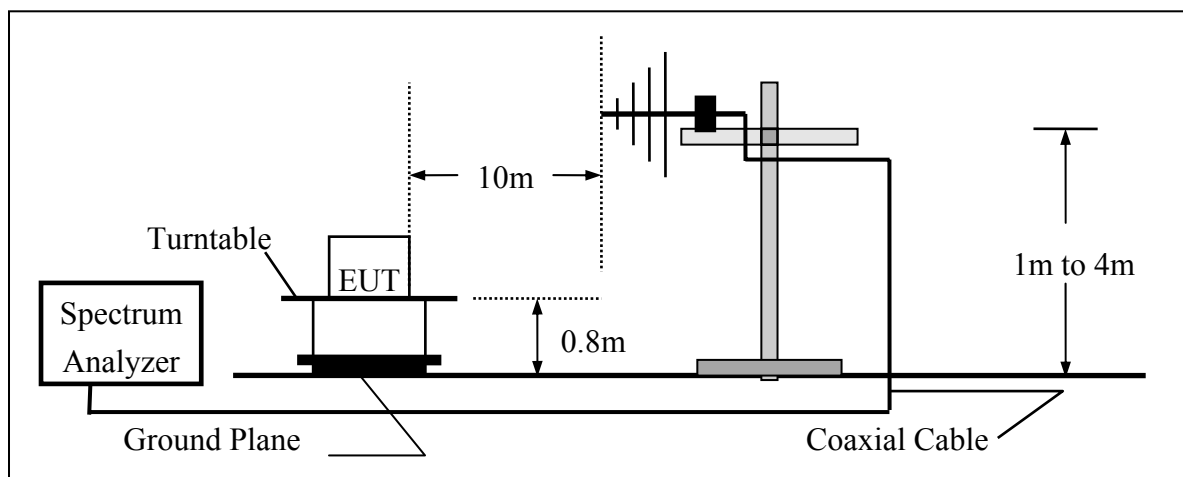
6. Radiated Emission Test

6.1 Measurement Procedure

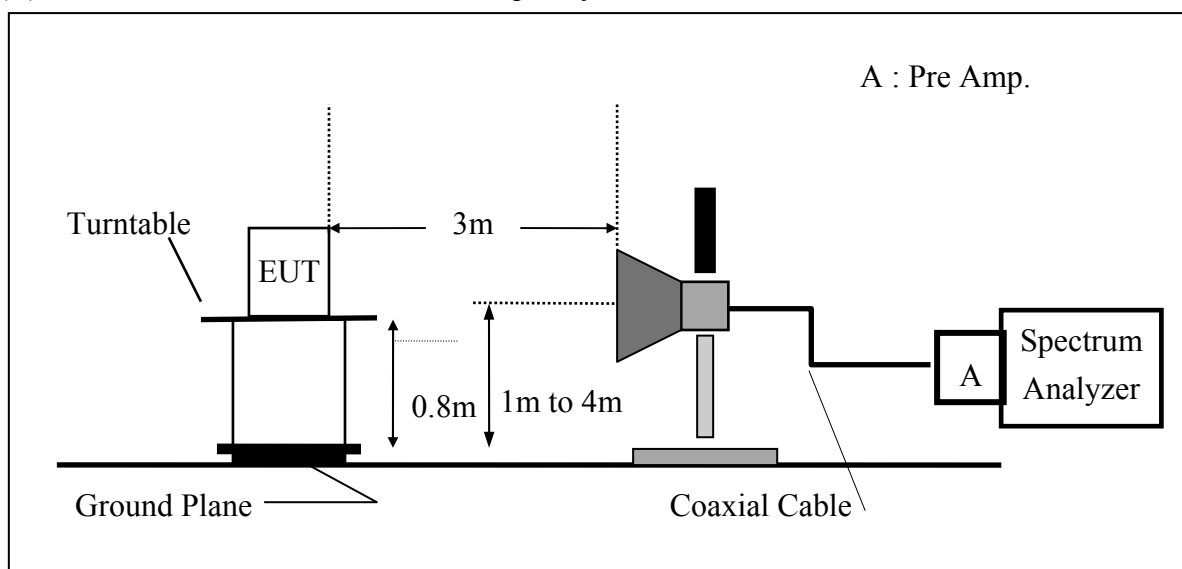
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	02/05/2009	02/04/2010
RF-Amplifier	Agilent	8447D	2944A09469	11/30/2008	11/29/2009
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	03/11/2009	03/02/2010
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	11/30/2008	11/29/2009

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/14/2009	03/13/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010

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6.4 Field Strength Calculation

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

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

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

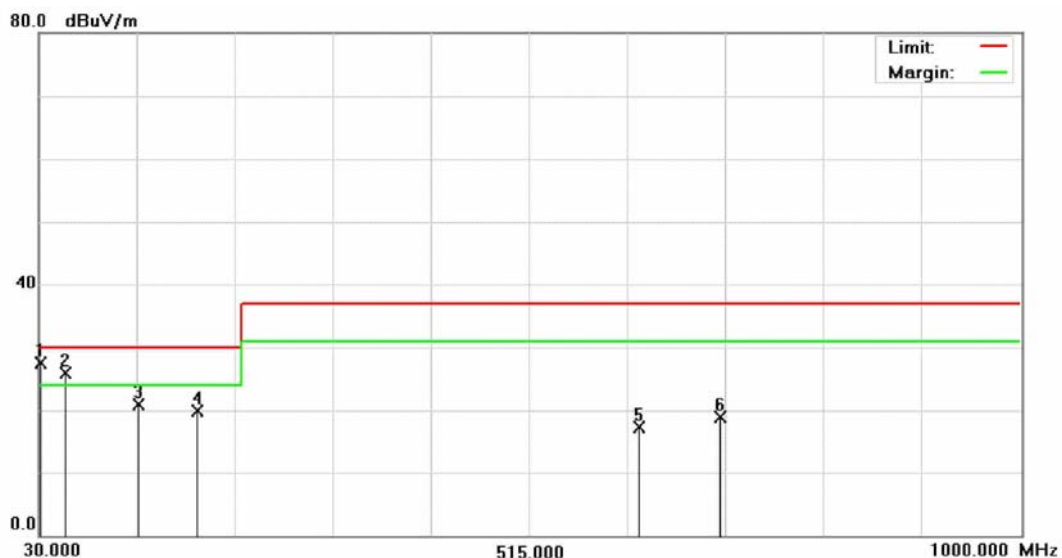
6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date: Oct. 30, 2009

Frequency Range: 30MHz-1GHz

Test By: Eric



Site: 10M Open Site

Polarization: Vertical

Temperature: 24 °C

Limit: CISPR22/CISPR11/EN55022 Class B 10m

Power: AC 120V/60Hz

Humidity: 61%

EUT: Mobilephone

Distance: 10m

Air Pressure: hpa

M/N: TG0200

Note: Charge + REC mode_config 1

IMEI: 004401121003004

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV/m	dB	Detector	Comment
1	*	32.4250	51.17	-23.72	27.45	30.00	-2.55	QP	
2	!	56.6750	49.28	-23.39	25.89	30.00	-4.11	QP	
3		129.4250	37.46	-16.47	20.99	30.00	-9.01	QP	
4		187.6250	37.02	-17.12	19.90	30.00	-10.10	QP	
5		624.1250	30.82	-13.50	17.32	37.00	-19.68	QP	
6		704.1500	30.64	-11.82	18.82	37.00	-18.18	QP	

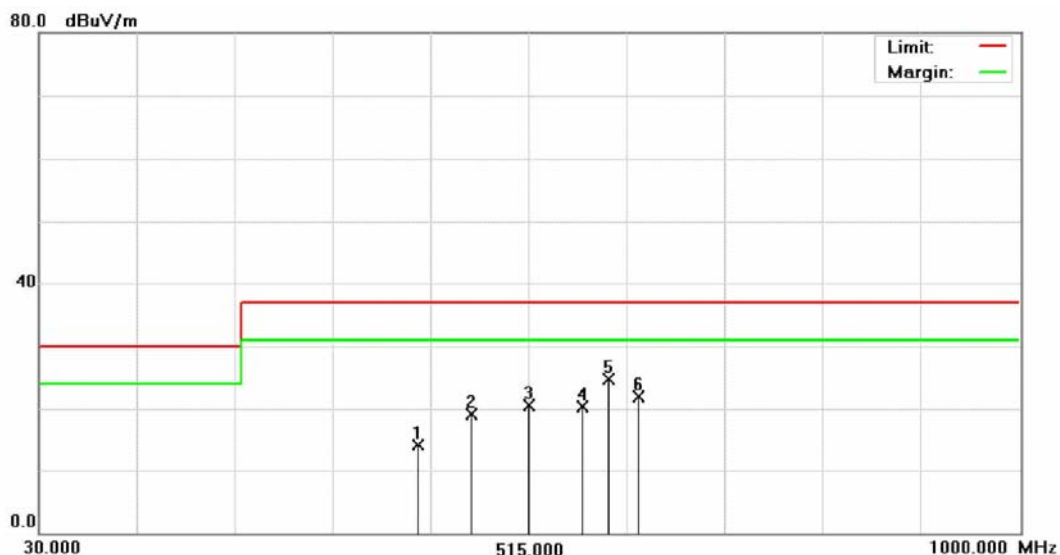
Remark:

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Site: 10M Open Site

Polarization: Horizontal

Temperature: 24 °C

Limit: CISPR22/CISPR11/EN55022 Class B 10m

Power: AC 120V/60Hz

Humidity: 61%

EUT: Mobilephone

Distance: 10m

Air Pressure: hpa

M/N: TG0200

Note: Charge + REC mode_config 1

IMEI: 004401121003004

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		405.8750	33.01	-18.95	14.06	37.00	-22.94	QP	
2		459.2250	33.64	-14.49	19.15	37.00	-17.85	QP	
3		515.0000	33.58	-13.03	20.55	37.00	-16.45	QP	
4		568.3500	32.76	-12.52	20.24	37.00	-16.76	QP	
5	*	595.0250	35.32	-10.58	24.74	37.00	-12.26	QP	
6		624.1250	32.02	-10.05	21.97	37.00	-15.03	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 10GHz was 1MHz

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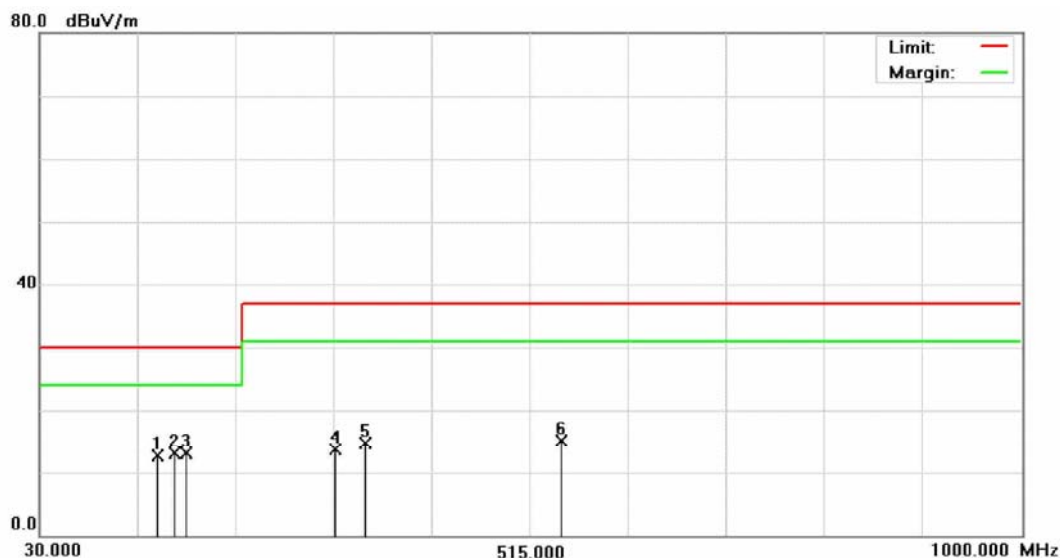
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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Oct. 30, 2009
Test By: Eric



Site :10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: TG0200

Note: Play mode_config 2

IMEI : 004401121003004

Polarization: Vertical

Power: DC3.7V

Distance: 10m

Temperature: 24 °C

Humidity: 61%

Air Pressure: hpa

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV/m	dB	Detector	Comment
1		146.4000	27.93	-15.25	12.68	30.00	-17.32	QP	
2		163.3750	28.57	-15.47	13.10	30.00	-16.90	QP	
3	*	175.5000	29.08	-15.95	13.13	30.00	-16.87	QP	
4		323.4250	28.91	-15.30	13.61	37.00	-23.39	QP	
5		352.5250	30.30	-15.58	14.72	37.00	-22.28	QP	
6		546.5250	28.81	-13.68	15.13	37.00	-21.87	QP	

Remark :

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

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SGS Taiwan Ltd.

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

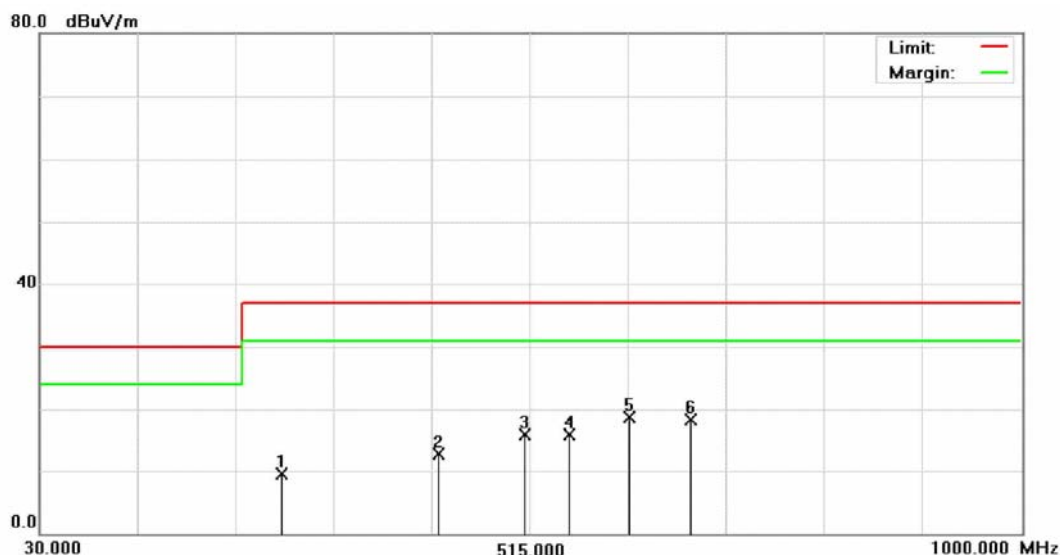
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

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

Test Date: Oct. 30, 2009
Test By: Eric



Site: 10M Open Site
Limit: CISPR22/CISPR11/EN55022 Class B 10m
EUT: Mobilephone
M/N: TG0200
Note: Play mode_config 2
IMEI: 004401121003004

Polarization: Horizontal
Power: DC3.7V
Distance: 10m

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		270.0750	30.43	-20.99	9.44	37.00	-27.56	QP	
2		425.2750	29.69	-17.05	12.64	37.00	-24.36	QP	
3		510.1500	29.14	-13.17	15.97	37.00	-21.03	QP	
4		553.8000	28.93	-12.97	15.96	37.00	-21.04	QP	
5	*	614.4250	28.67	-9.87	18.80	37.00	-18.20	QP	
6		675.0500	28.53	-10.23	18.30	37.00	-18.70	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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Site: 10M Open Site
Limit: CISPR22/CISPR11/EN55022 Class B 10m
EUT: Mobilephone
M/N: TG0200
Note: Data link_config 3
IMEI: 004401121003004

Polarization: Vertical
Power: AC 120V/60Hz
Distance: 10m

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	148.8250	43.11	-15.28	27.83	30.00	-2.17	QP	
2		202.1750	41.31	-17.58	23.73	30.00	-6.27	QP	
3		461.6500	35.74	-14.45	21.29	37.00	-15.71	QP	
4		568.3500	37.96	-14.05	23.91	37.00	-13.09	QP	
5		730.8250	37.32	-10.88	26.44	37.00	-10.56	QP	
6	!	801.1500	43.92	-9.57	34.35	37.00	-2.65	QP	

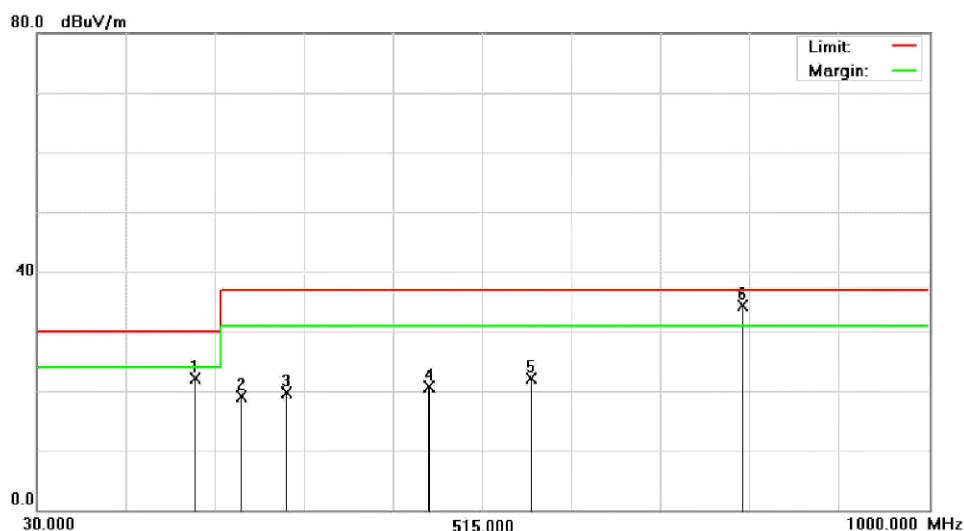
Remark:

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Site : 10M Open Site
Limit: CISPR22/CISPR11/EN55022 Class B 10m
EUT: Mobilephone
M/N: TG0200
Note: Data link_config 3
IMEI : 004401121003004

Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 10m

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		202.1750	44.55	-22.52	22.03	30.00	-7.97	QP	
2		253.1000	40.81	-21.65	19.16	37.00	-17.84	QP	
3		301.6000	38.92	-19.28	19.64	37.00	-17.36	QP	
4		456.8000	35.46	-14.71	20.75	37.00	-16.25	QP	
5		568.3500	34.69	-12.52	22.17	37.00	-14.83	QP	
6	*	798.7250	43.66	-9.44	34.22	37.00	-2.78	QP	

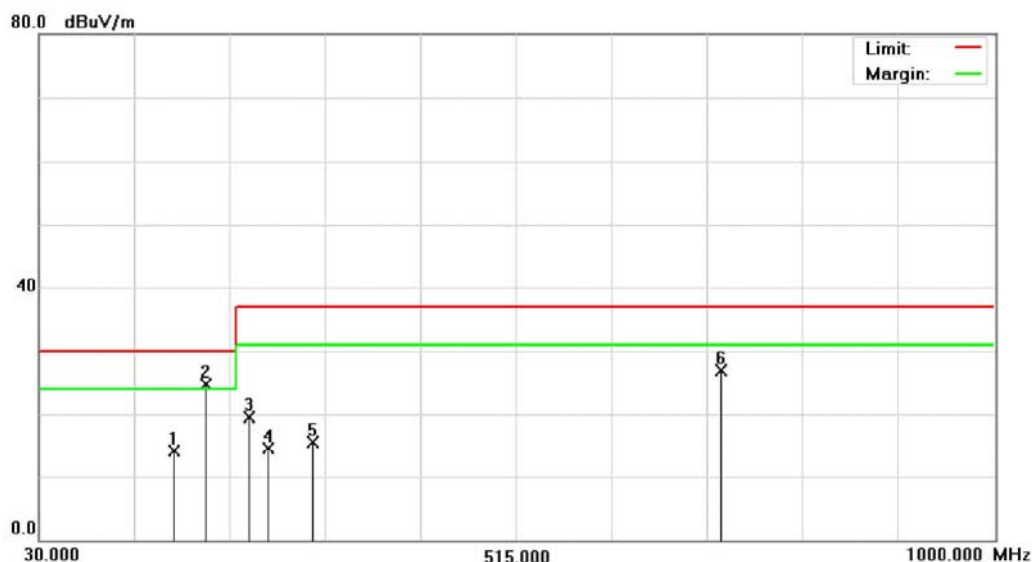
Remark :

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Site : 10M Open Site
Limit: CISPR22/CISPR11/EN55022 Class B 10m
EUT: Mobilephone
MN: TG0200
Note: Data link_config 4
IMEI : 004401121003004

Polarization: **Vertical**
Power: DC3.7V
Distance: 10m

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		168.2250	29.59	-15.54	14.05	30.00	-15.95	QP	
2	*	199.7500	42.58	-17.79	24.79	30.00	-5.21	QP	
3		243.4000	35.54	-15.95	19.59	37.00	-17.41	QP	
4		262.8000	30.61	-16.08	14.53	37.00	-22.47	QP	
5		308.8750	30.37	-14.93	15.44	37.00	-21.56	QP	
6		723.5500	38.09	-11.23	26.86	37.00	-10.14	QP	

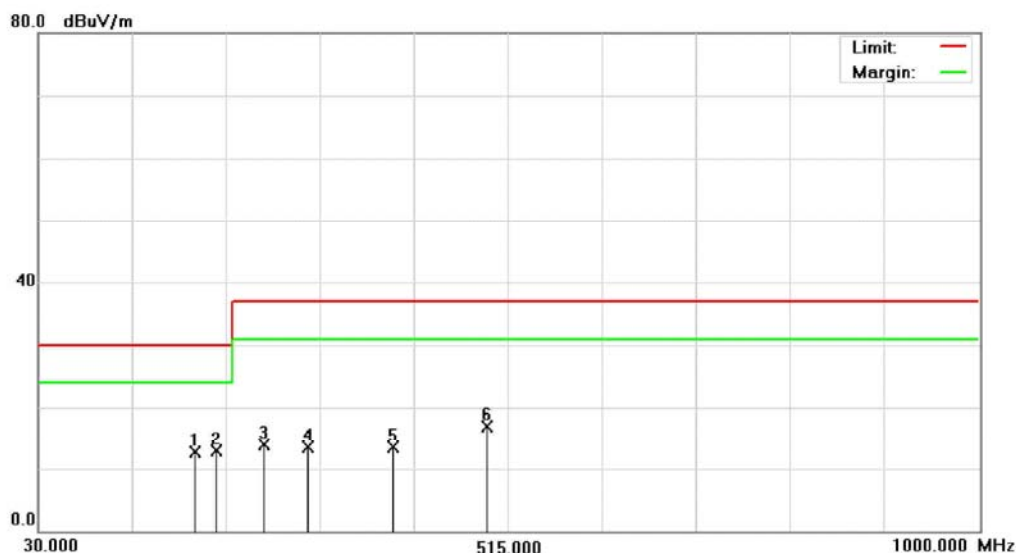
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Site : 10M Open Site
Limit: CISPR22/CISPR11/EN55022 Class B 10m
EUT: Mobilephone
M/N: TG0200
Note: Data link_config 4
IMEI : 004401121003004

Polarization: **Horizontal**
Power: DC3.7V
Distance: 10m

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		192.4750	35.89	-23.14	12.75	30.00	-17.25	QP	
2	*	214.3000	35.10	-22.27	12.83	30.00	-17.17	QP	
3		262.8000	34.94	-21.10	13.84	37.00	-23.16	QP	
4		308.8750	32.76	-19.31	13.45	37.00	-23.55	QP	
5		396.1750	33.00	-19.43	13.57	37.00	-23.43	QP	
6		493.1750	29.87	-13.03	16.84	37.00	-20.16	QP	

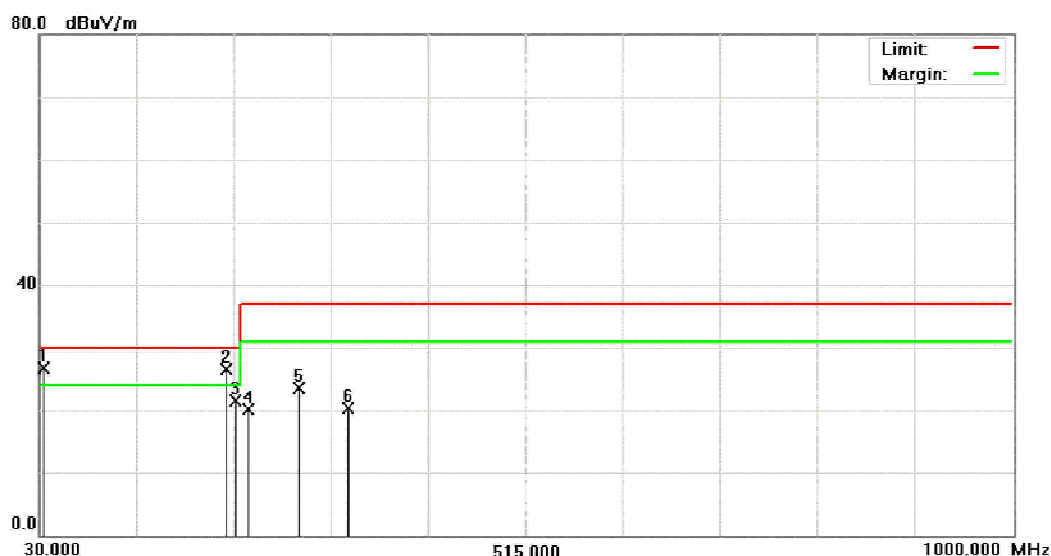
Remark :

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Site :10M Open Site
Limit: CISPR22/CISPR11/EN55022 Class B 10m
EUT: Toshiba
M/N: TG0200
Note: Operation_config5
IMEI:004401121003004

Polarization: Vertical
Power: AC 120V/60Hz
Distance: 10m

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	34.6700	50.16	-23.41	26.75	30.00	-3.25	QP	
2	!	216.7250	43.73	-17.14	26.59	30.00	-3.41	QP	
3		226.4250	38.18	-16.59	21.59	30.00	-8.41	QP	
4		238.5500	36.34	-16.27	20.07	37.00	-16.93	QP	
5		289.4750	38.67	-15.13	23.54	37.00	-13.46	QP	
6		337.9750	35.59	-15.29	20.30	37.00	-16.70	QP	

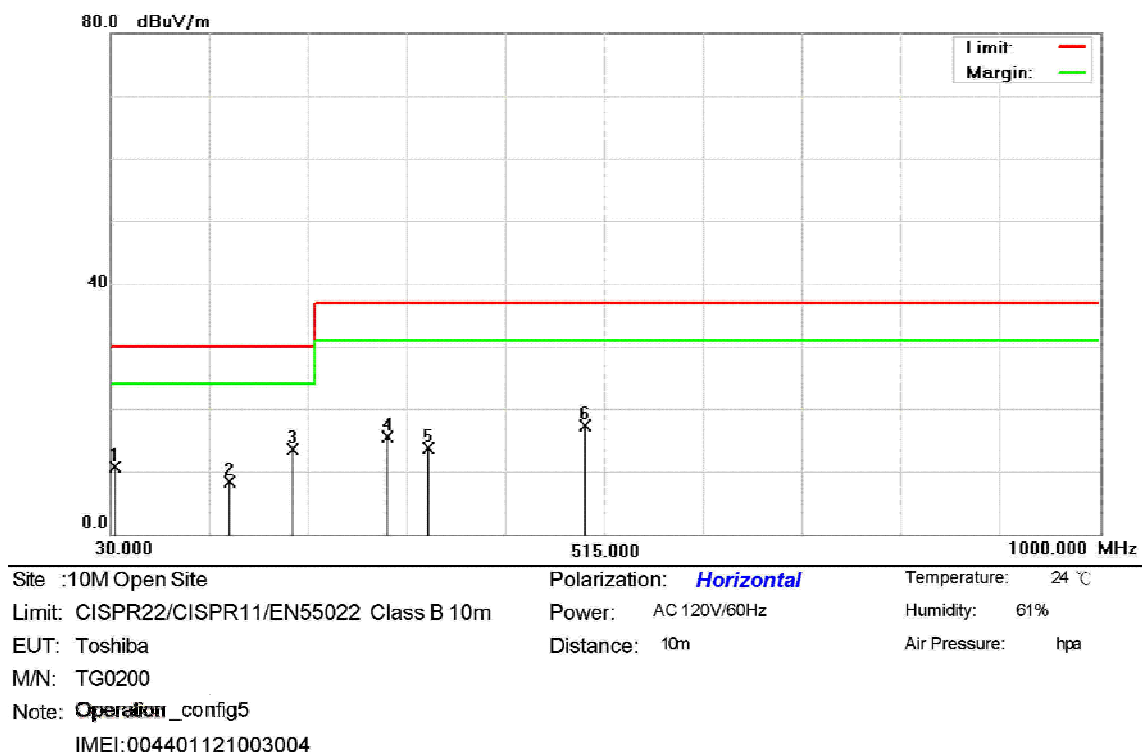
Remark :

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		34.5700	36.52	-25.72	10.80	30.00	-19.20	QP	
2		146.4000	31.31	-22.99	8.32	30.00	-21.68	QP	
3	*	208.1250	36.14	-22.61	13.53	30.00	-16.47	QP	
4		300.0200	34.77	-19.34	15.43	37.00	-21.57	QP	
5		340.5000	33.59	-19.96	13.63	37.00	-23.37	QP	
6		495.1250	30.36	-13.01	17.35	37.00	-19.65	QP	

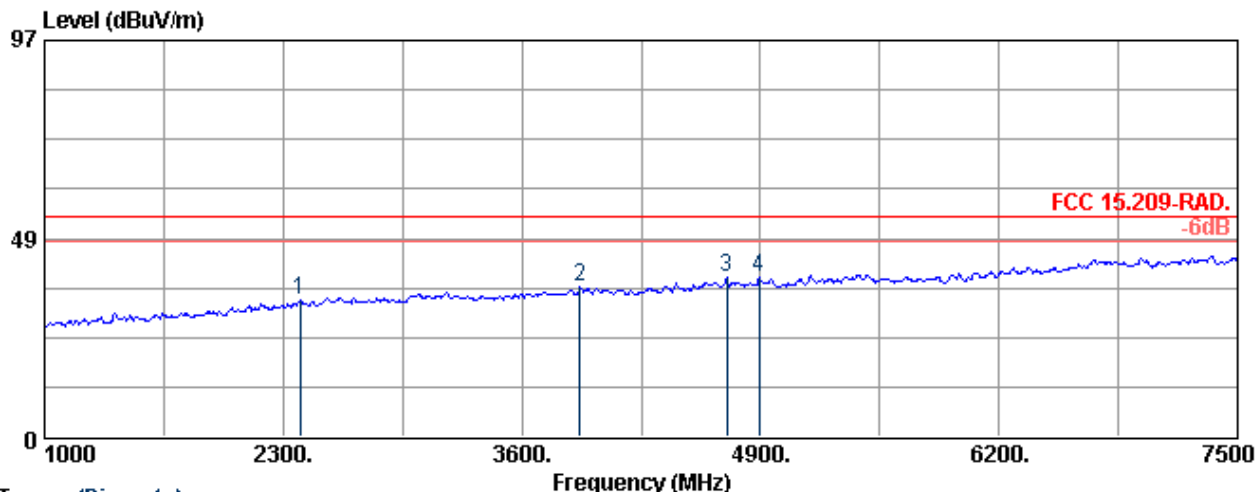
Remark:

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009

Test By: Eric



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Charge+REC mode_config1
Temp./Humid. : 25/60
Operator : Nick

IMEI : 004401121003004

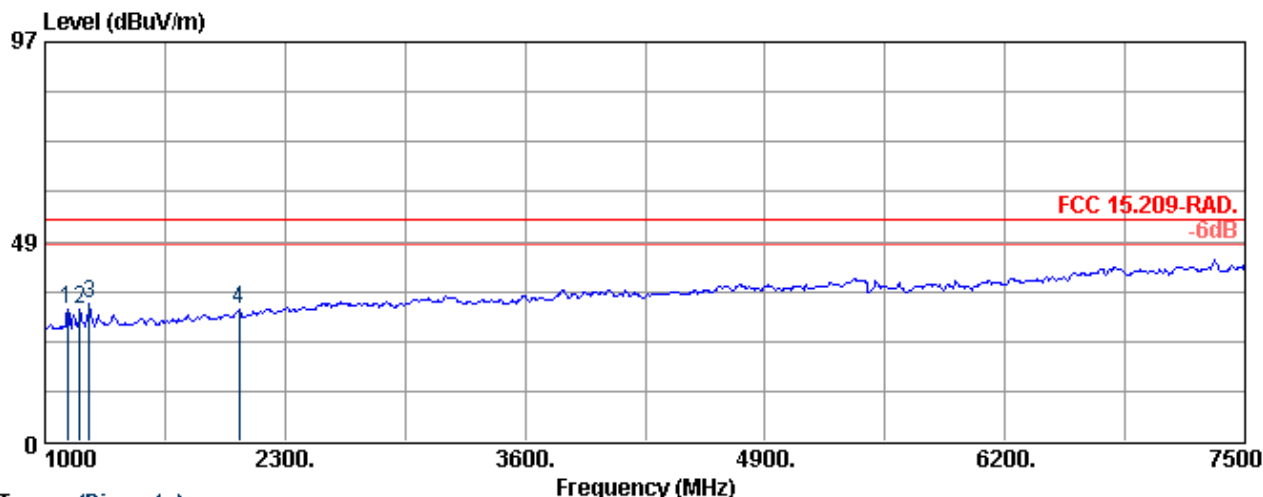
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2391.00	34.98	27.23	5.21	33.83	-1.39	33.59	54.00
2	3918.50	33.36	29.50	7.08	33.16	3.42	36.78	54.00
3 p	4718.00	33.22	31.04	7.92	33.13	5.83	39.05	54.00
4	4893.50	32.57	31.36	8.10	33.25	6.21	38.78	54.00

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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Charge+REC mode_config1
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1123.50	39.59	24.41	3.40	35.43	-7.62	31.97	54.00 -22.03 Peak
2	1188.50	39.40	24.50	3.52	35.35	-7.33	32.07	54.00 -21.93 Peak
3 p	1240.50	40.65	24.56	3.63	35.27	-7.08	33.57	54.00 -20.43 Peak
4	2053.00	35.09	26.06	4.84	34.05	-3.15	31.94	54.00 -22.06 Peak

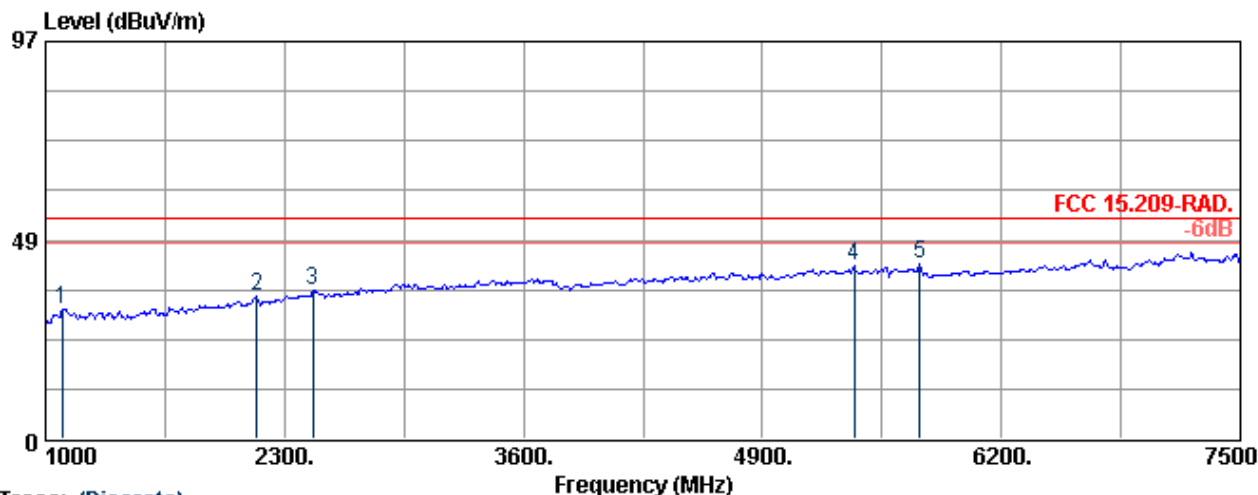
Remark :

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

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Play mode_config2
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1091.00	39.27	24.36	3.36	35.47	-7.75	31.52	54.00 -22.48 Peak
2	2150.50	37.55	26.41	4.93	33.99	-2.65	34.90	54.00 -19.10 Peak
3	2456.00	37.23	27.46	5.30	33.80	-1.04	36.19	54.00 -17.81 Peak
4	5400.50	35.15	31.87	8.49	33.05	7.31	42.46	54.00 -11.54 Peak
5 p	5758.00	34.44	32.32	8.75	32.93	8.14	42.58	54.00 -11.42 Peak

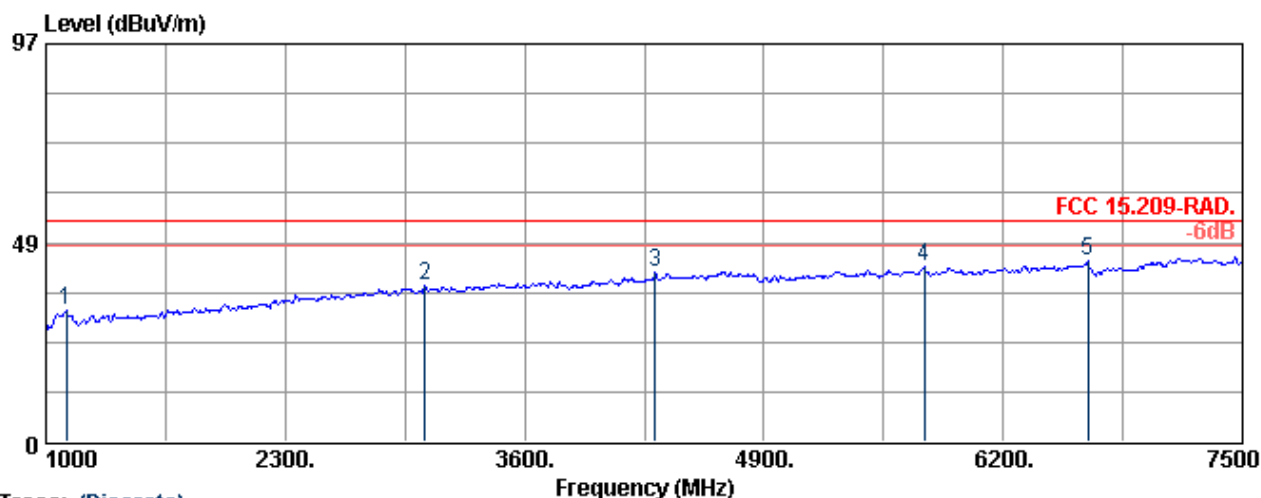
Remark :

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Play mode_config2
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Freq	ReadAntenna	Cable Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss Factor	Line	Limit	
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dB
1	1110.50	39.53	24.38	3.40	35.47	-7.69	31.84
2	3060.50	37.56	28.27	6.05	33.68	0.64	38.20
3	4308.50	36.44	30.27	7.51	33.06	4.72	41.16
4	5771.00	34.63	32.36	8.75	32.93	8.18	42.81
5 p	6661.50	33.24	34.64	9.43	33.34	10.73	43.97

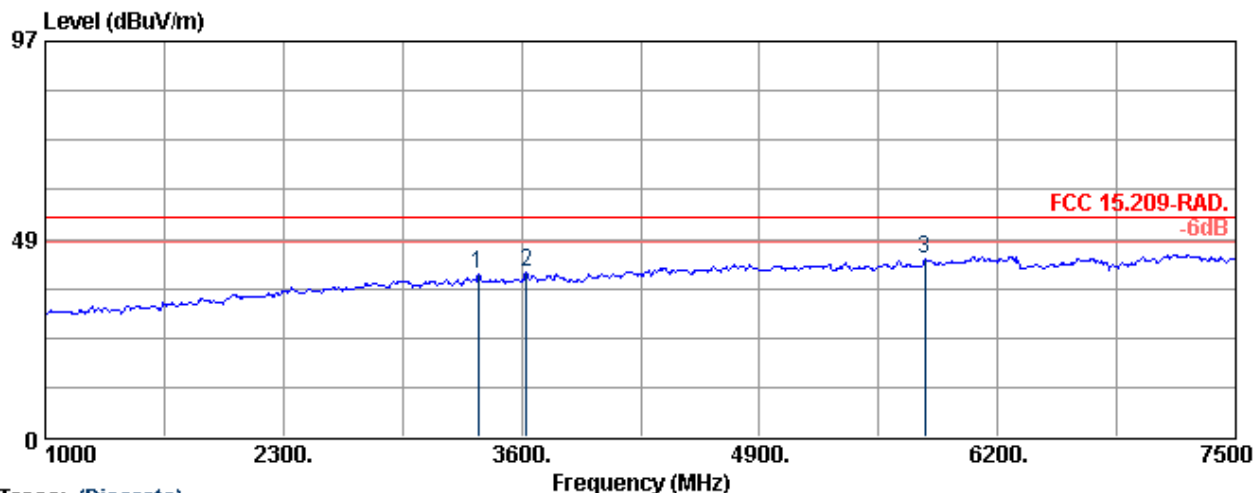
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : data link_config3
Temp./Humid. : 25/60
Operator : Nick

IMEI : 004401121003004

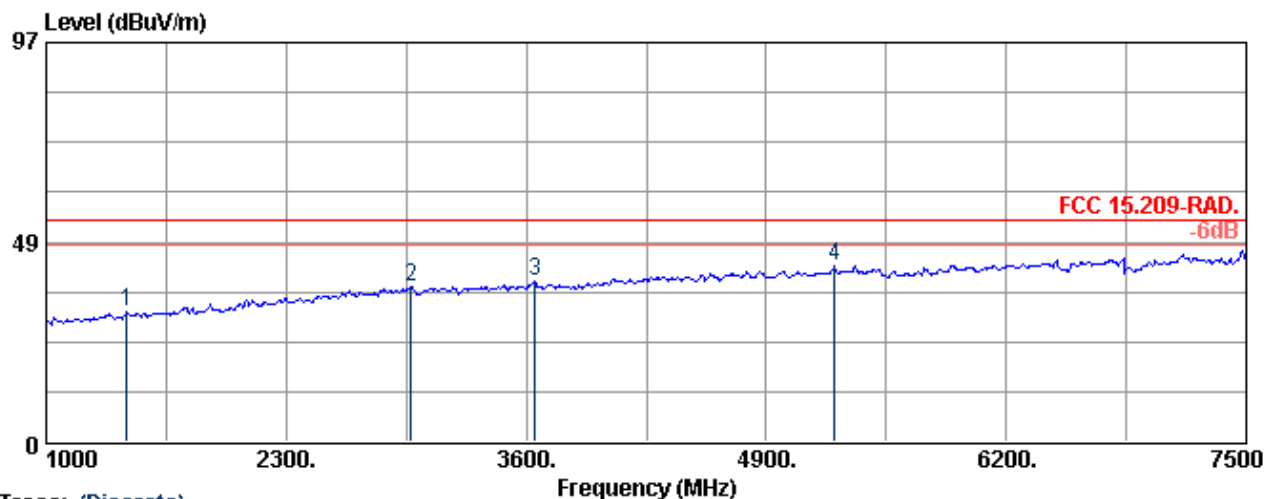
	Freq	ReadAntenna	Cable Preamp	Loss Factor	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	3366.00	38.18	28.43	6.42	33.21	1.64	39.82	54.00	-14.18 Peak
2	3626.00	37.90	28.78	6.74	33.06	2.46	40.36	54.00	-13.64 Peak
3 p	5803.50	35.40	32.42	8.77	32.93	8.26	43.66	54.00	-10.34 Peak

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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : T80000
Test Mode : _config3
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1435.50	37.92	24.83	3.90	34.95	-6.22	31.70	54.00 -22.30 Peak
2	2976.00	37.38	28.20	5.92	33.80	0.32	37.70	54.00 -16.30 Peak
3	3645.50	36.40	28.86	6.77	33.07	2.56	38.96	54.00 -15.04 Peak
4 p	5270.50	35.72	31.76	8.38	33.15	6.99	42.71	54.00 -11.29 Peak

Remark :

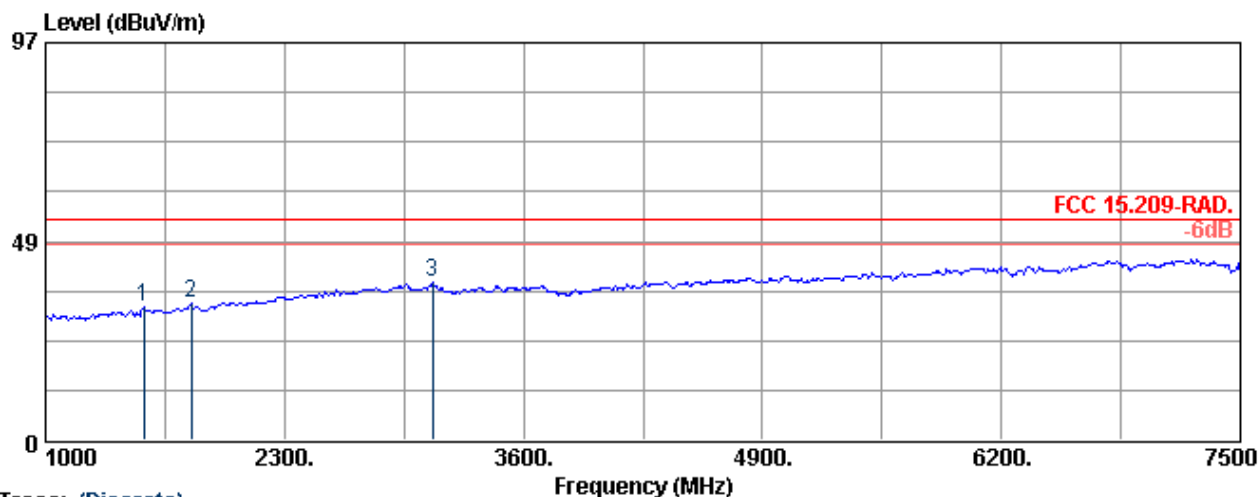
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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

Test Date : Oct. 30, 2009

Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Data link_config4
Temp./Humid. : 25/60
Operator : Nick

IMEI : 004401121003004

	Freq	ReadAntenna	Cable Preamp	Loss Factor	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1533.00	38.46	24.97	4.06	34.79	-5.76	32.70	54.00	-21.30 Peak
2	1793.00	37.91	25.49	4.44	34.40	-4.47	33.44	54.00	-20.56 Peak
3 p	3106.00	37.60	28.29	6.08	33.60	0.77	38.37	54.00	-15.63 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 10GHz was 1MHz

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SGS Taiwan Ltd.

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

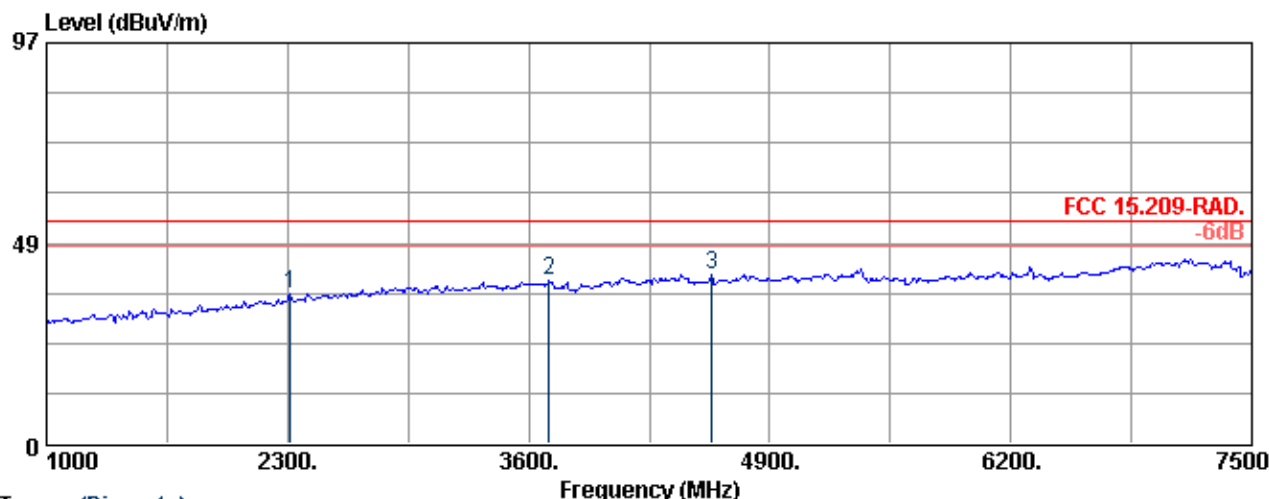
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Data link_config4
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Freq	ReadAntenna	Cable Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	
1	2313.00	37.85	26.94	5.12	33.89	-1.83	36.02 54.00 -17.98 Peak
2	3710.50	36.54	28.98	6.83	33.09	2.72	39.26 54.00 -14.74 Peak
3 p	4588.00	35.49	30.78	7.77	33.05	5.50	40.99 54.00 -13.01 Peak

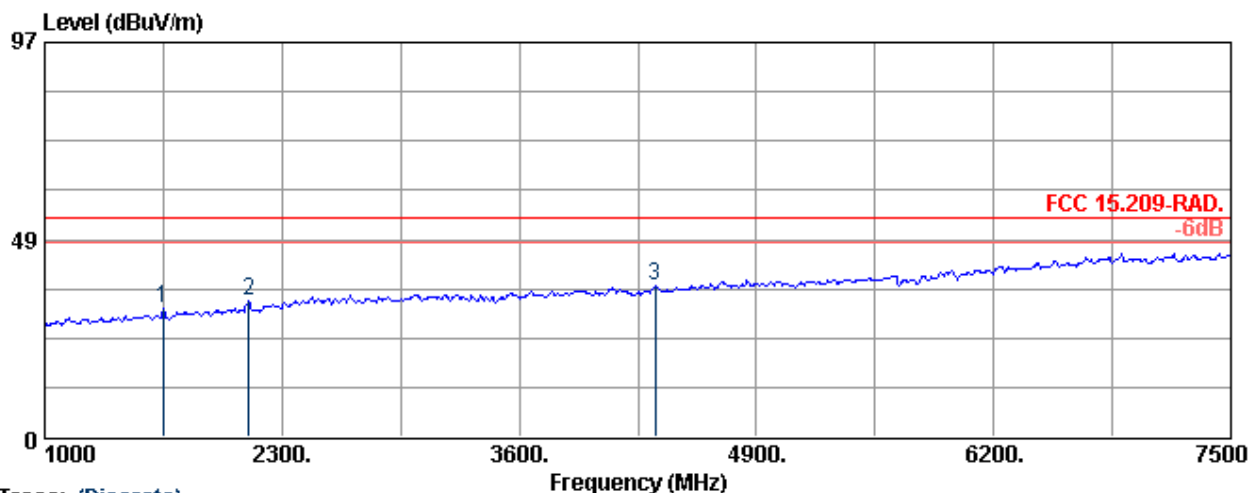
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model :
Test Mode : Config5
Temp./Humid. : 25/60
Operator : Nick

IMEI : 004401121003004

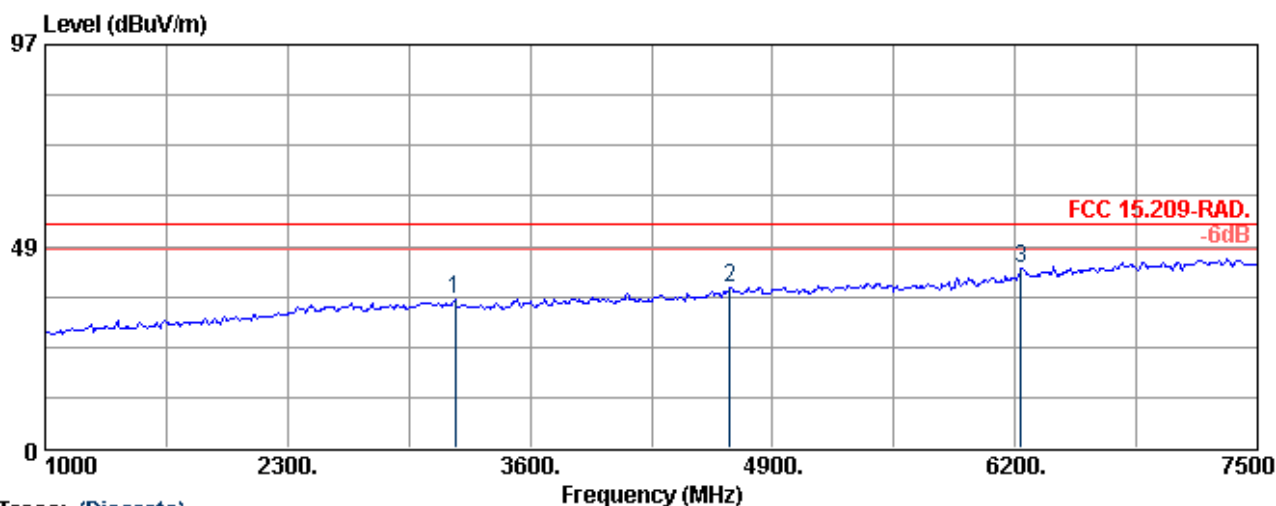
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1650.00	45.32	25.20	4.04	43.00	-13.76	31.56	54.00 -22.44 Peak
2	2118.00	45.63	26.30	4.65	43.01	-12.06	33.57	54.00 -20.43 Peak
3 p	4347.50	44.54	30.33	6.72	44.48	-7.43	37.11	54.00 -16.89 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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Site : RF SITE
Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : GPS_config5
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB
1	3197.00	46.30	28.34	5.29	44.03	-10.40	35.90	54.00 -18.10 Peak
2	4672.50	45.03	30.94	7.03	44.27	-6.30	38.73	54.00 -15.27 Peak
3 p	6232.50	45.71	33.46	8.54	44.34	-2.34	43.37	54.00 -10.63 Peak

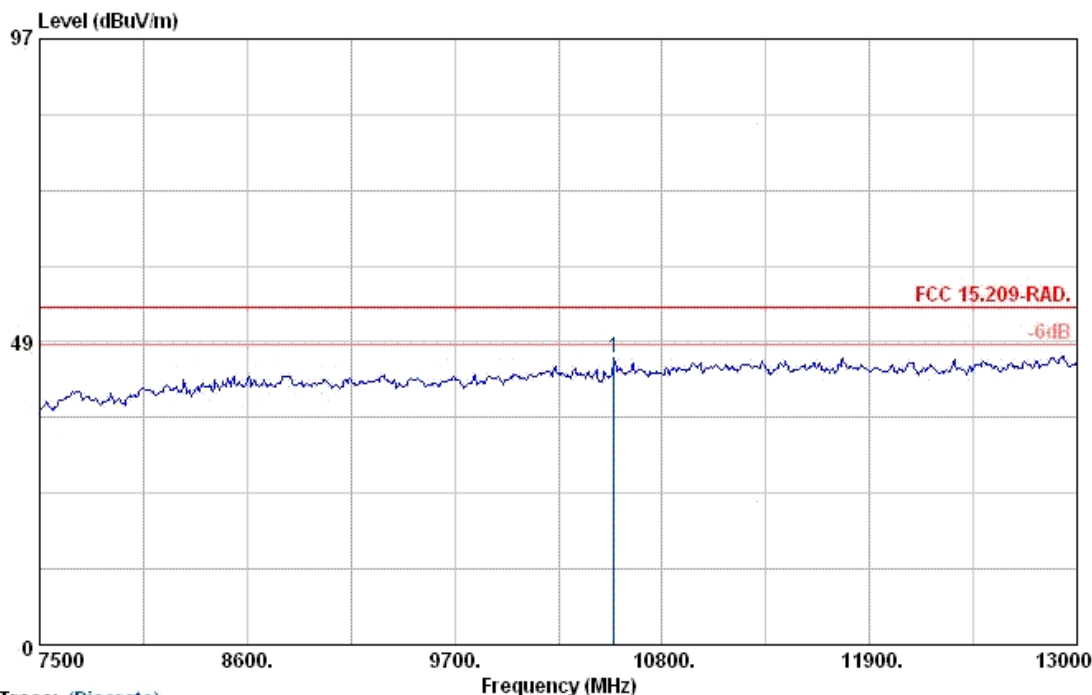
Remark :

- (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 10GHz was 1MHz

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

Test Date: Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Charge+REC mode_config1
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable		Limit	Over	
MHz	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 p 10547.00	28.01	39.05	33.58	12.45	17.92	45.93	54.00	-8.07 Peak

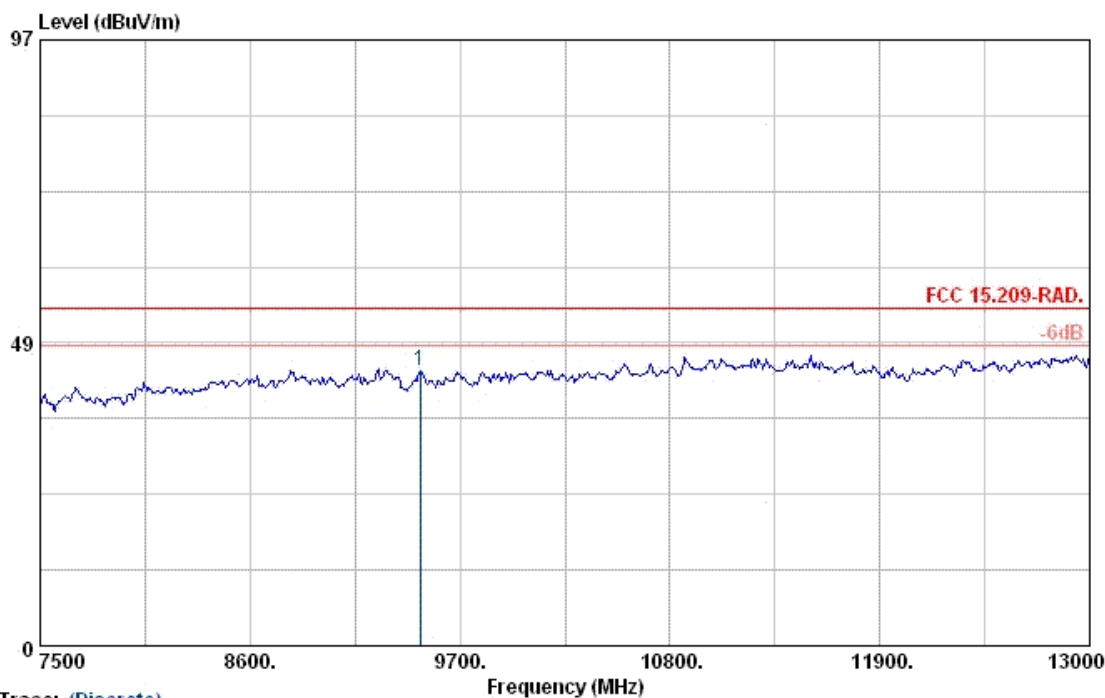
Remark :

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

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Charge+REC mode_config1
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

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 9491.00	27.92	37.82	33.29	11.60	16.13	44.05	54.00	-9.95	Peak

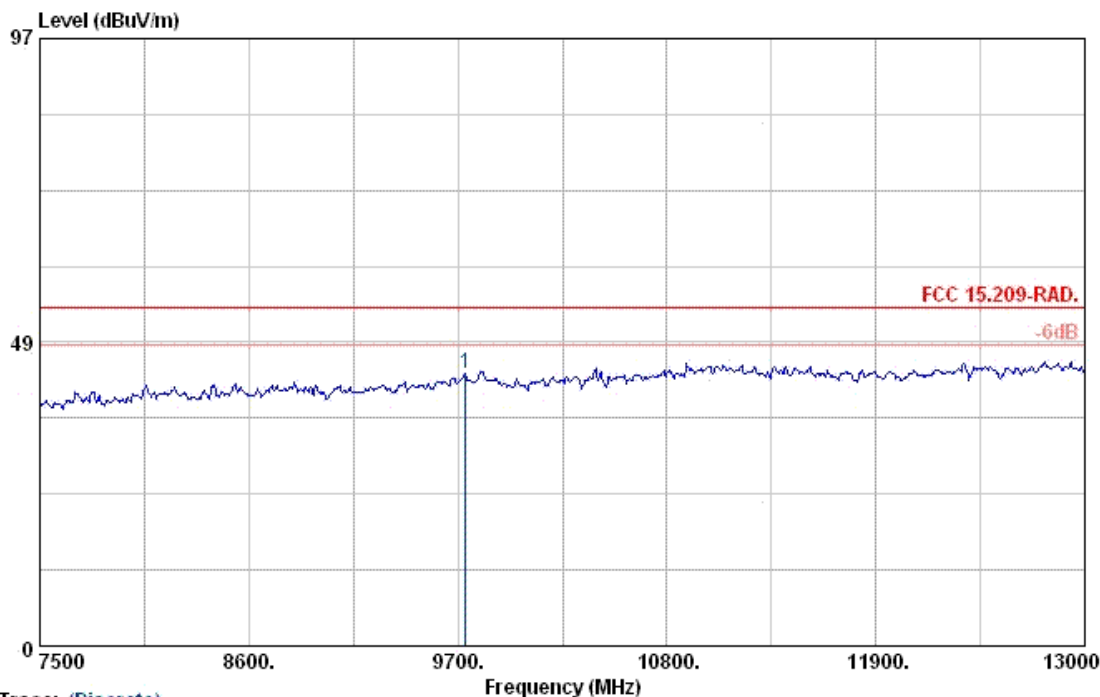
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric

**Trace: (Discrete)**

Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Play mode_config2
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB

1 p 9738.50 27.05 37.99 33.43 11.84 16.40 43.45 54.00 -10.55 Peak

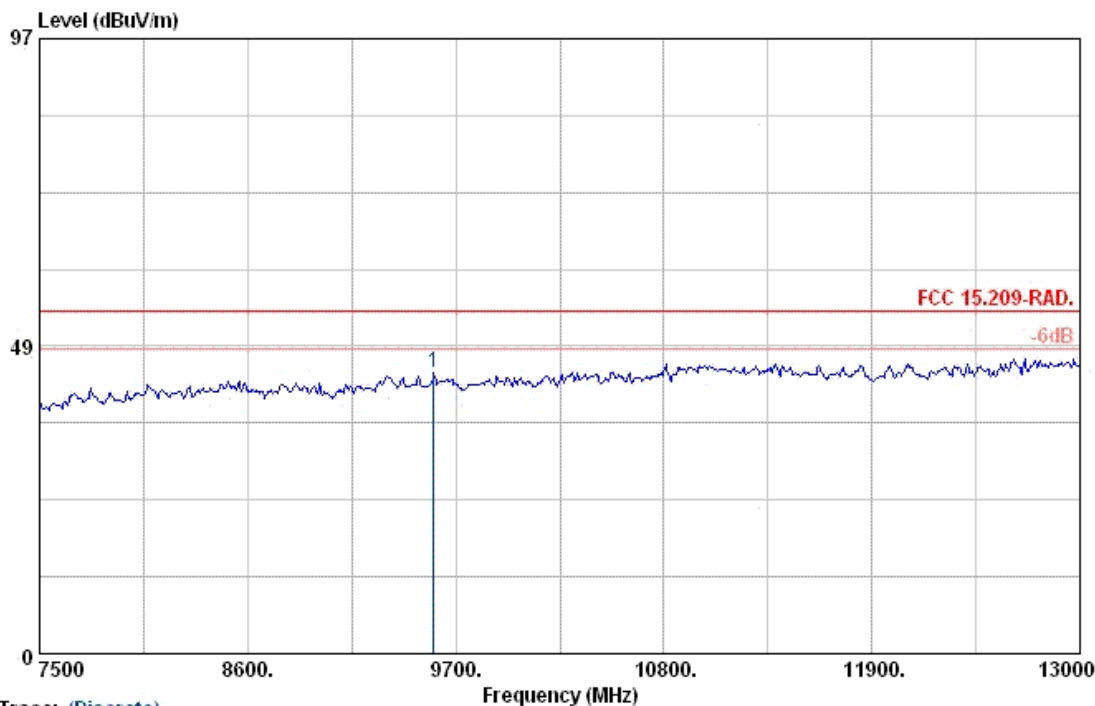
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Play mode_config2
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable	Limit	Over			
MHz	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 9584.50	28.18	37.91	33.35	11.70	16.26	44.44	54.00	-9.56	Peak

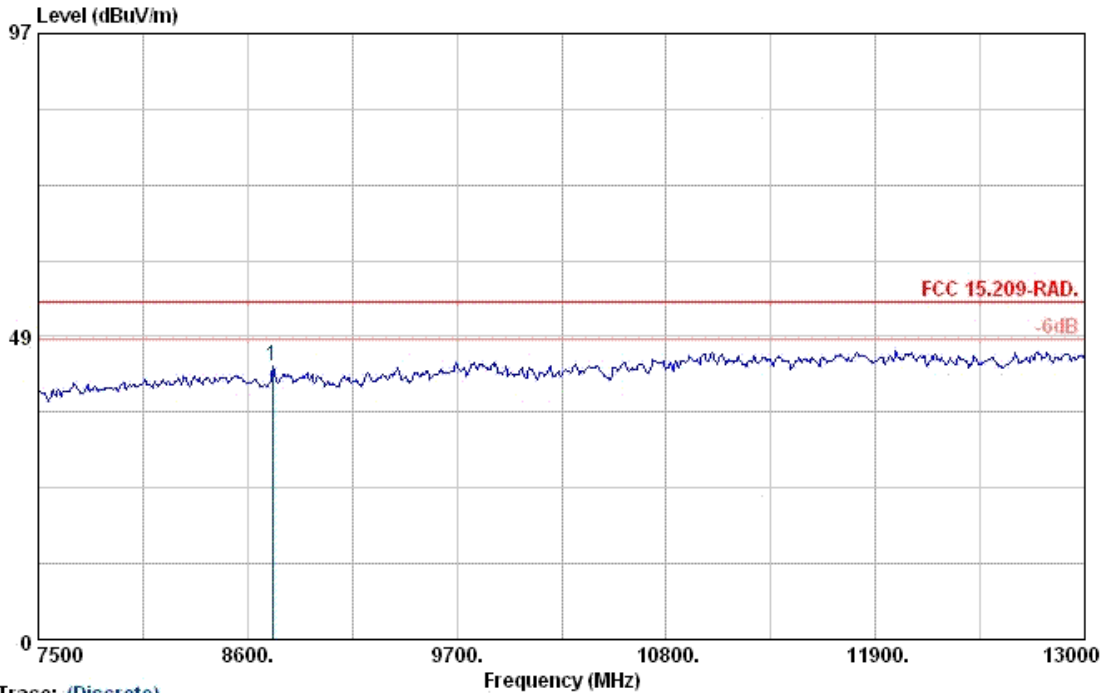
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : data link_config3
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable		Limit	Over	
MHz	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 p 8732.00	28.74	37.27	33.15	10.95	15.07	43.81	54.00	-10.19 Peak

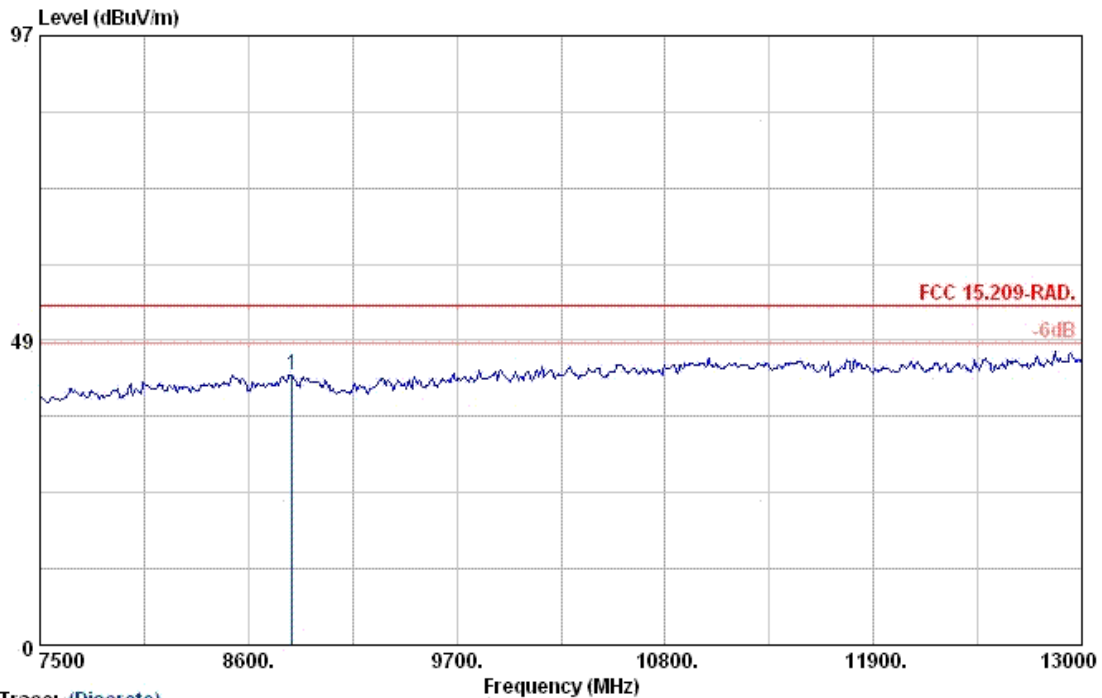
Remark :

- (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 10GHz was 1MHz

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : data link_config3
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 p 8831.00	27.84	37.32	33.28	11.01	15.05	42.89	54.00	-11.11 Peak

Remark :

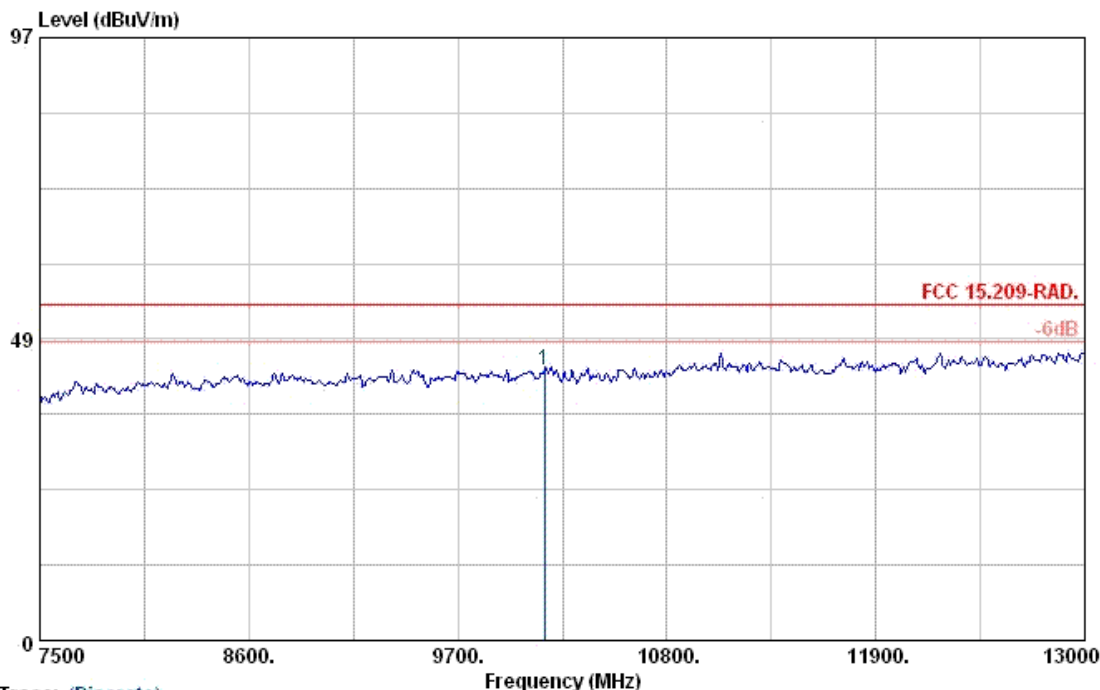
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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

Test Date : Oct. 30, 2009

Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Data link_config4
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable	Limit	Over			
MHz	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 10156.50	26.52	38.42	33.58	12.19	17.03	43.55	54.00	-10.45	Peak

Remark :

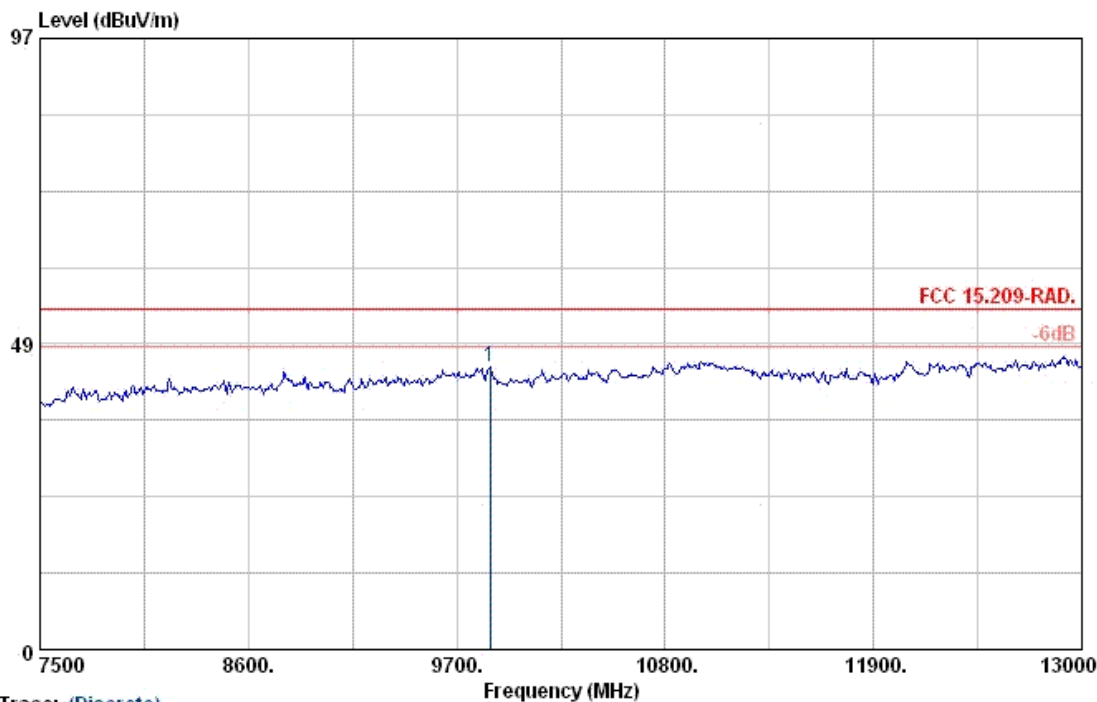
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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

Test Date : Oct. 30, 2009

Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode : Data link_config4
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

	Read	Antenna	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 p 9876.00	28.42	38.07	33.49	11.97	16.55	44.97	54.00	-9.03 Peak

Remark :

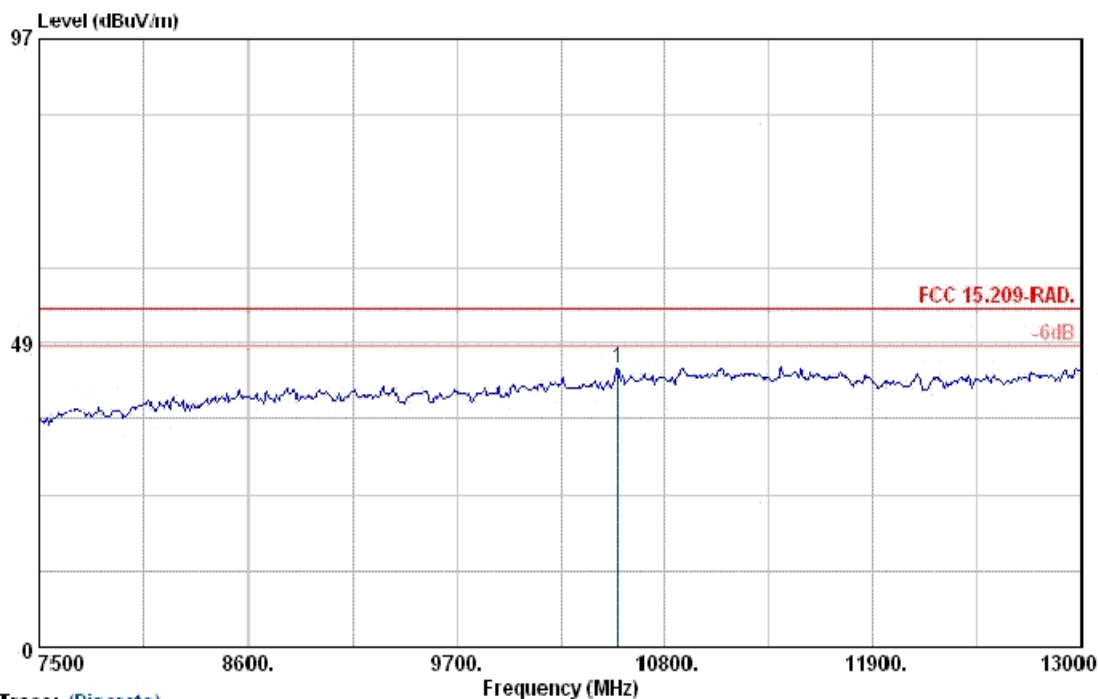
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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

Test Date : Oct. 30, 2009

Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD. 3m BBHA9120D VERTICAL

Project No : FI-2009-A0004-5

Applicant :

EUT Description : Toshiba

EUT Model : TG0200

Test Mode : **Operation_config**

Temp./Humid. : 25/60

Operator : Nick

IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	Remark

1 p 10552.50 36.81 39.05 43.60 12.27 7.72 44.53 54.00 -9.47 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 10GHz was 1MHz

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SGS Taiwan Ltd.

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

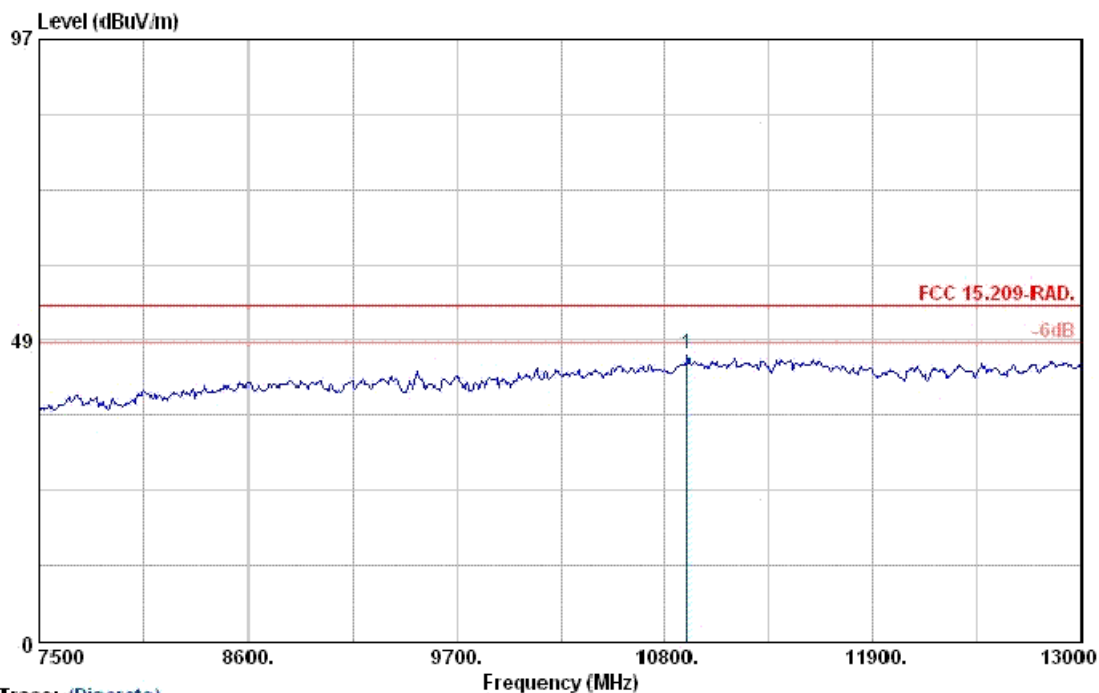
f (886-2) 2298-0488

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Member of SGS Group

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

Test Date : Oct. 30, 2009
Test By: Eric



Trace: (Discrete)

Condition : FCC 15.209-RAD, 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-A0004-5
Applicant :
EUT Description : Toshiba
EUT Model : TG0200
Test Mode: **Operation_config5**
Temp./Humid. : 25/60
Operator : Nick
IMEI : 004401121003004

Freq	Read	Antenna	Preamp	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1 p 10921.00	38.03	39.46	43.77	12.54	8.23	45.26	54.00 -7.74 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 10GHz was 1MHz

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