

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**UN-INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART B CERTIFICATION REQUIREMENT**

OF

Product Name: CDMA TSX04

FCC ID: WVS-RN10-J02

Report No.: EI/2009/70003

Issue Date: Jul. 21, 2009

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Toshiba Corporation, Mobile
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VERIFICATION OF COMPLIANCE

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Manufacturer: Toshiba Corporation, Mobile Communications Co., Quality Management Division
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Product Name: CDMA TSX04

FCC ID: WVS-RN10-J02

File Number: EI/2009/70003

Date of test: Jul. 10, 2009 ~ Jul. 20, 2009

Date of EUT Receive: Jul. 10, 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:*

Jul. 21, 2009

*Nick Lin / Engineer**Prepared By:**Date:*

Jul. 21, 2009

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

Jul. 21, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Jul. 21, 2009	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name:	CDMA TSX04	
FCC ID:	WVS-RN10-J02	
Software Version:	N/A	
Hardware Version:	N/A	
Data Cable:	1 provided. Model: N/A	
Simple Hands-free (SHF)	1 provided. Model: N/A	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	Model: TSX04UAA; Supplier: KDDI
	Adaptor:	Model: MP-XKA; Supplier: MITSUMI

CDMA:

DUT Standards	CDMA2000	Frequency Range		Rated Maximum ERP/EIRP Power
And Power:	Cellular	TX:	824.70-848.31 MHz	24.95 dBm
		RX:	869.70-893.31 MHz	
Type of Emission		CDMA2000 Cellular: 1M28F9W		
Antenna Type		PIFA Type		

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
CDMA2000 Cellular	3.7Vdc	250

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **WVS-RN10-J02** filing to comply with Part15 Subpart B, class B of the FCC CFR 47 Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Toshiba CDMA cellular phone **FCC ID: WVS-RN10-J02** was tested with a computer connected via USB interface port. The Phone drivers were installed on the computer to be able to communicate with the phone by continuously sending a querying text file (AT commands) to the phone using HyperTerminal. For more information please see section 5.4 and section 6.5 for test data and APPENDIX 1 for set-up photographs.

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 1-2)

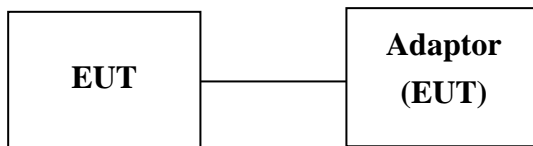


Fig. 2-2 Configuration of Tested System (config 3)

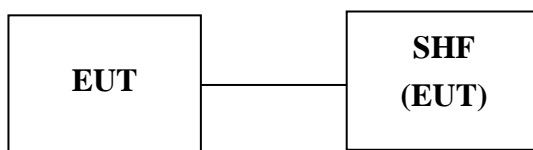


Fig. 2-1 Configuration of Tested System (config 4)

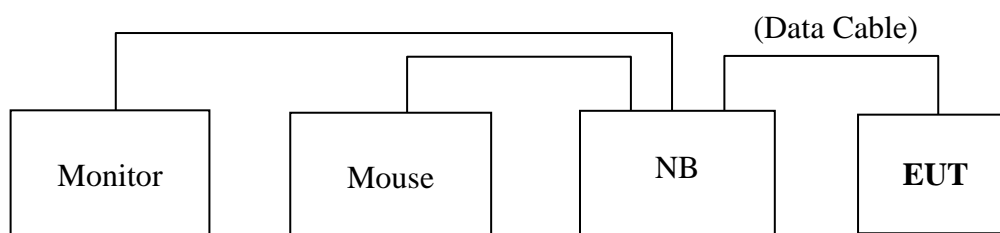


Fig. 2-4 Configuration of Tested System (Remote Side)

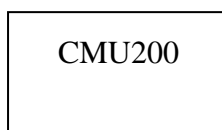


Table 2-1 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	IBM	T60	L3DK794	Shielded	Un-shielded
2.	Mouse	HP	MO42KOA	0307012110	Shielded	N/A
3.	Monitor	HP	Vf51	TWTFG01092	Shielded	Un-shielded
4.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	Un-shielded

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

4. Description of test modes

The EUT was stayed in normal operation mode with CMU200.

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

Test Plan:

	Config 1	Config 2	Config 3	Config 4
Accessories	UE + Battery + AC Adaptor	UE + Battery + AC Adaptor	UE + Battery + SHF	UE + Battery + Data cable
	Audio & camera		Audio	Data cable
Description				
radiated emission	Play 1KHz	Camera REC	Play 1KHz	Data link
conducted emission (AC Power)	Play 1KHz	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	09/16/2008	09/15/2009
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

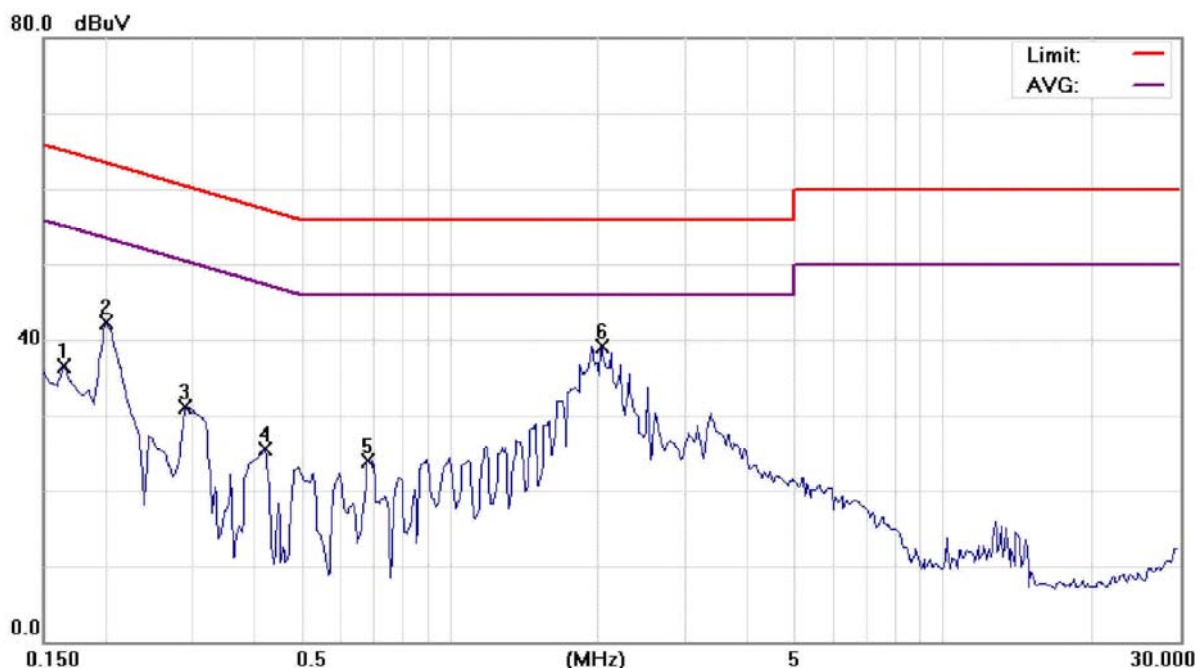
5.4 Measurement Result

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.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Jul. 15, 2009
Temperature:	23 °C	Humidity:	60 %
		Test By:	Nick



Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)

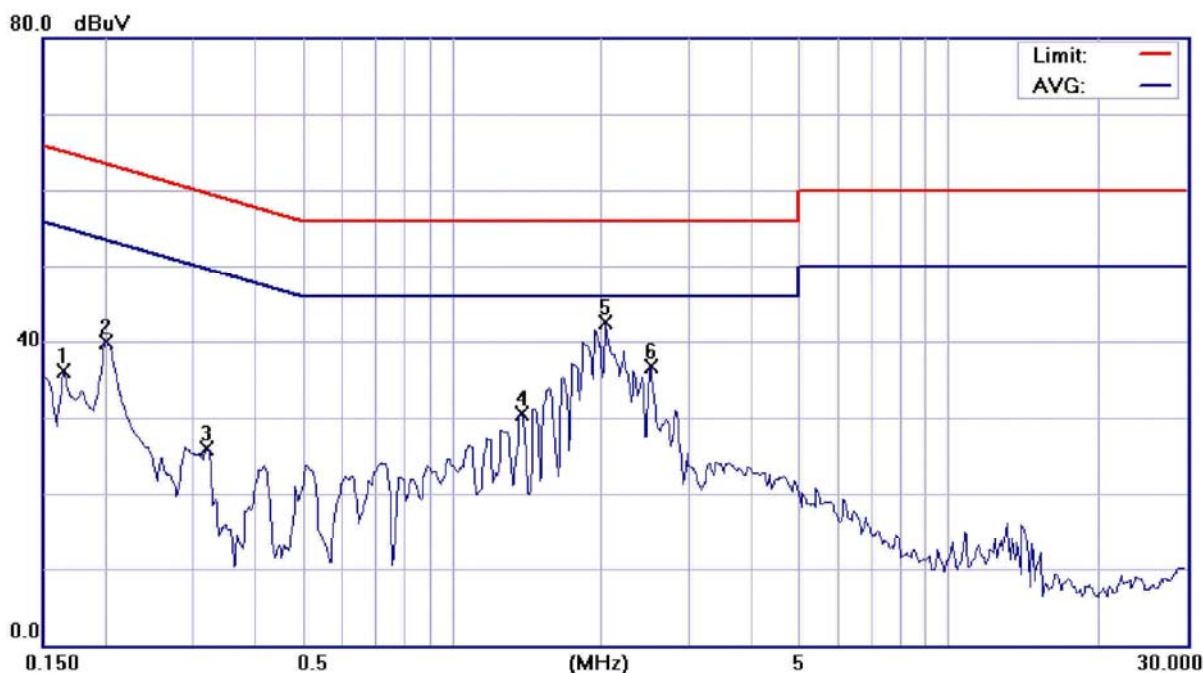
Phase: L1
Power: AC 110V/60Hz
Distance:

Temperature: 23 °C
Humidity: 60 %
Air Pressure: hpa

Note: Charge + play 1KHz (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	36.39	0.16	36.55	65.21	-28.66	peak	
2		0.2000	42.10	0.12	42.22	63.61	-21.39	peak	
3		0.2900	31.07	0.10	31.17	60.52	-29.35	peak	
4		0.4200	25.50	0.08	25.58	57.45	-31.87	peak	
5		0.6800	23.91	0.08	23.99	56.00	-32.01	peak	
6	*	2.0300	38.94	0.13	39.07	56.00	-16.93	peak	

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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

Phase: **N**

Power: AC 110V/60Hz

Distance:

Temperature: 23 °C

Humidity: 60 %

Air Pressure: hpa

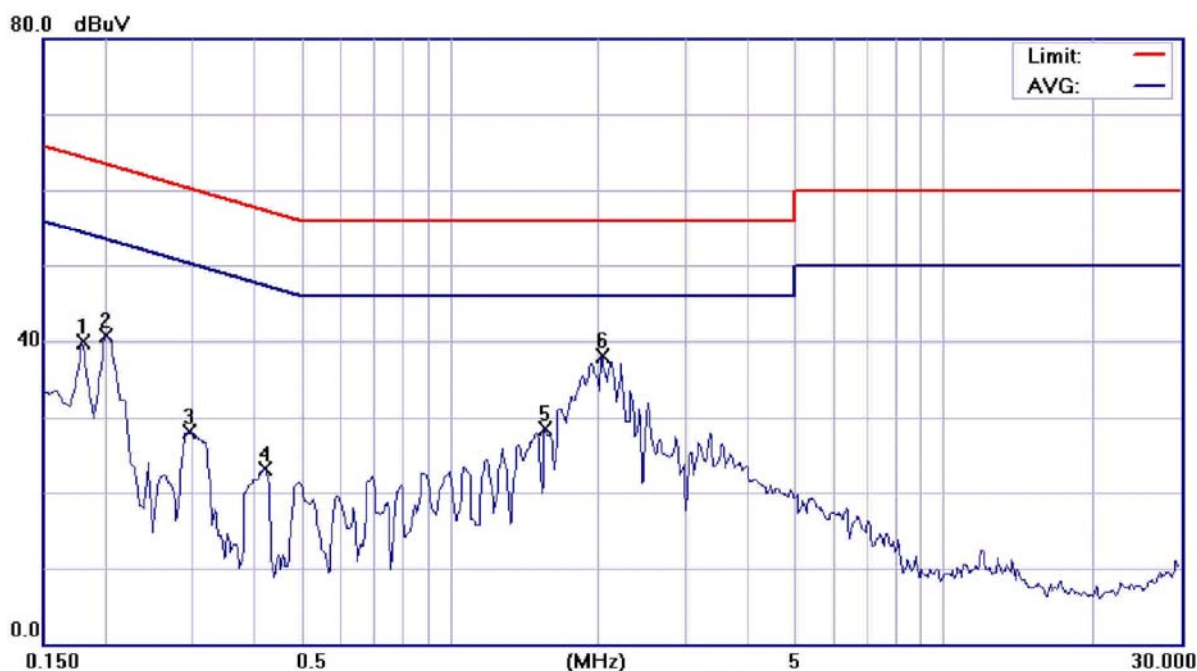
Note: Charge + play 1KHz (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	35.89	0.17	36.06	65.21	-29.15	peak	
2		0.2000	39.77	0.13	39.90	63.61	-23.71	peak	
3		0.3200	25.70	0.11	25.81	59.71	-33.90	peak	
4		1.3800	30.40	0.11	30.51	56.00	-25.49	peak	
5	*	2.0400	42.37	0.13	42.50	56.00	-13.50	peak	
6		2.5100	36.54	0.14	36.68	56.00	-19.32	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 2	Test Date:	Jul. 15, 2009
Temperature:	23 °C	Humidity:	60 %
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 60 %

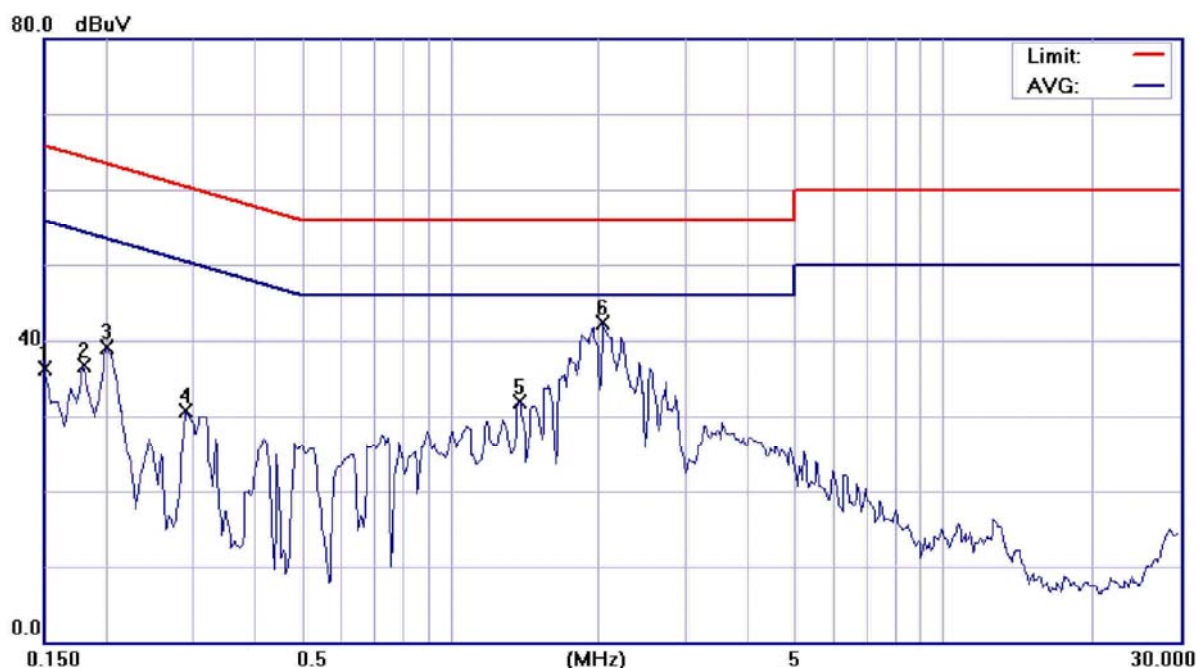
Distance:

Air Pressure: hpa

Note: Charge + camera REC (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1800	39.86	0.14	40.00	64.49	-24.49	peak	
2		0.2000	40.53	0.12	40.65	63.61	-22.96	peak	
3		0.2950	27.93	0.10	28.03	60.38	-32.35	peak	
4		0.4200	22.99	0.08	23.07	57.45	-34.38	peak	
5		1.5600	28.37	0.11	28.48	56.00	-27.52	peak	
6	*	2.0300	38.01	0.13	38.14	56.00	-17.86	peak	

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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

Phase: **N**

Power: AC 110V/60Hz

Distance:

Temperature: 23 °C

Humidity: 60 %

Air Pressure: hpa

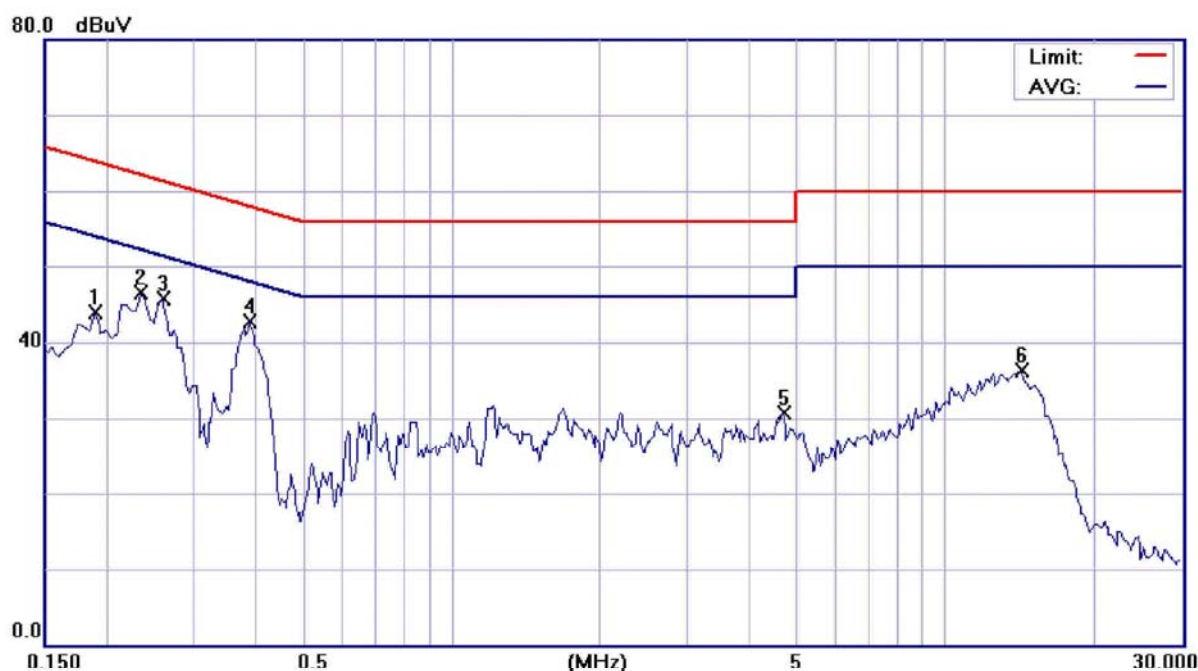
Note: Charge + camera REC (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	36.21	0.18	36.39	66.00	-29.61	peak	
2		0.1800	36.54	0.15	36.69	64.49	-27.80	peak	
3		0.2000	38.98	0.13	39.11	63.61	-24.50	peak	
4		0.2900	30.55	0.11	30.66	60.52	-29.86	peak	
5		1.3800	31.81	0.11	31.92	56.00	-24.08	peak	
6	*	2.0400	42.23	0.13	42.36	56.00	-13.64	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jul. 15, 2009
Temperature:	23 °C	Humidity:	60 %
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 60 %

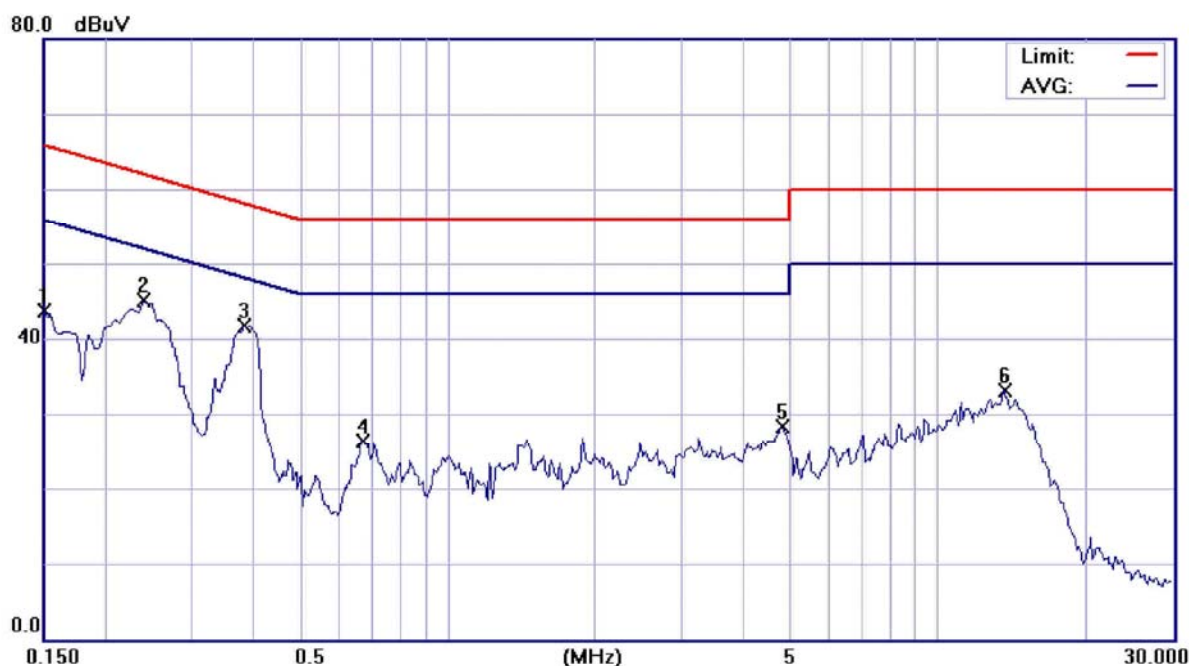
Distance:

Air Pressure: hpa

Note: Data link (UE + battery + USB cable ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	43.86	0.13	43.99	64.04	-20.05	peak	
2		0.2350	46.45	0.11	46.56	62.27	-15.71	peak	
3		0.2600	45.54	0.11	45.65	61.43	-15.78	peak	
4	*	0.3900	42.65	0.08	42.73	58.06	-15.33	peak	
5		4.7100	30.55	0.16	30.71	56.00	-25.29	peak	
6		14.2400	35.89	0.40	36.29	60.00	-23.71	peak	

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Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)

Phase: **N**
Power: AC 110V/60Hz
Distance:

Temperature: 23 °C
Humidity: 60 %
Air Pressure: hpa

Note: Data link (UE + battery + USB cable ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1508	43.62	0.18	43.80	65.96	-22.16	peak	
2		0.2400	45.04	0.12	45.16	62.10	-16.94	peak	
3	*	0.3850	41.69	0.09	41.78	58.17	-16.39	peak	
4		0.6700	26.19	0.09	26.28	56.00	-29.72	peak	
5		4.8000	28.20	0.17	28.37	56.00	-27.63	peak	
6		13.6800	32.69	0.43	33.12	60.00	-26.88	peak	

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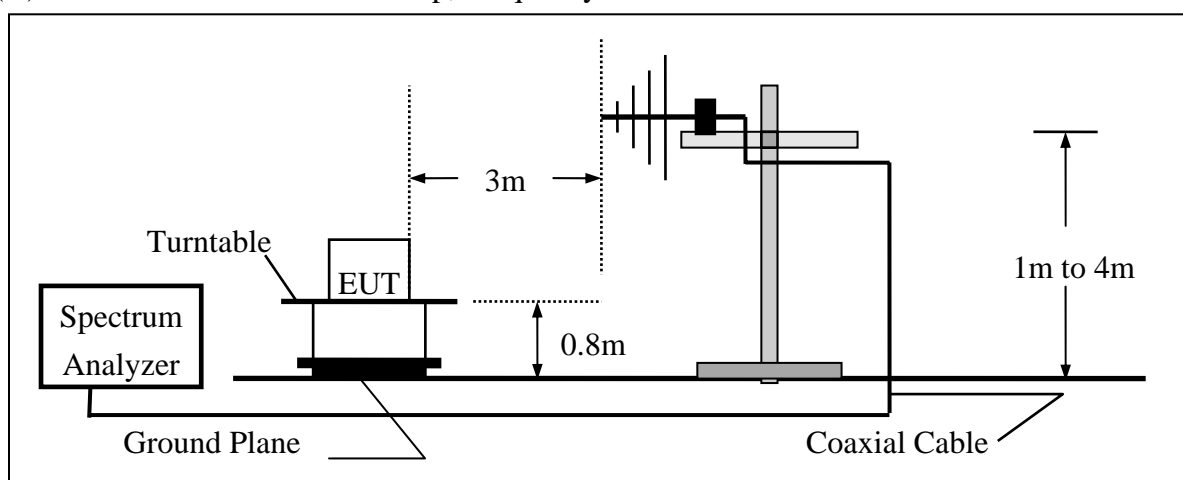
6. Radiated Emission Test

6.1 Measurement Procedure

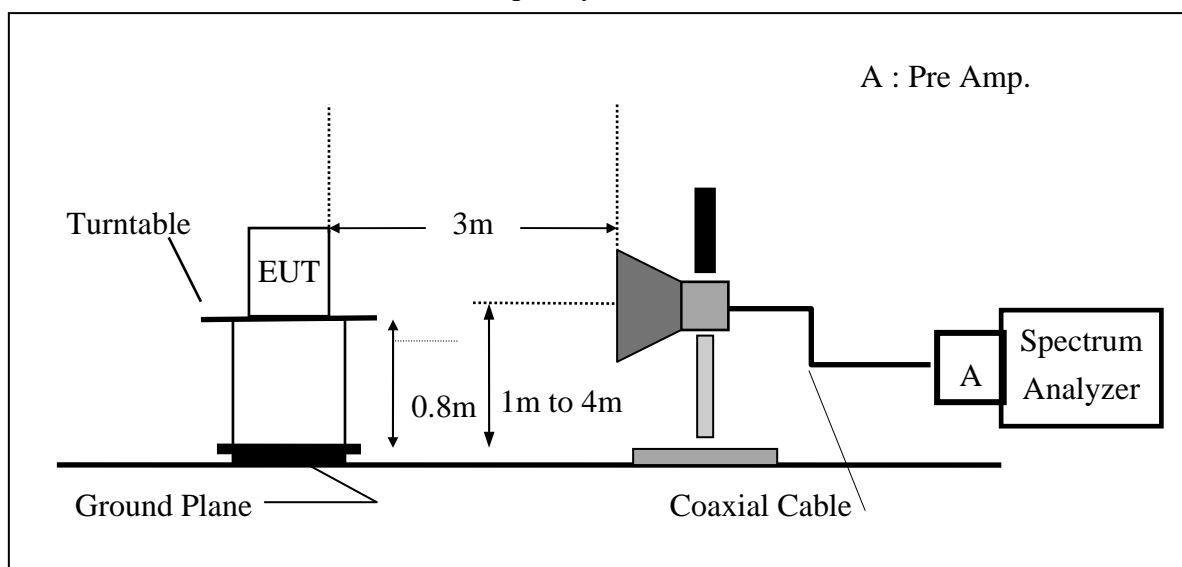
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Over 1 GHz



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6.3 Measurement Equipment Used:

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

6.4 Field Strength Calculation

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

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

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

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6.5 Measurement Result (below 1G)

Test Mode: Config 1

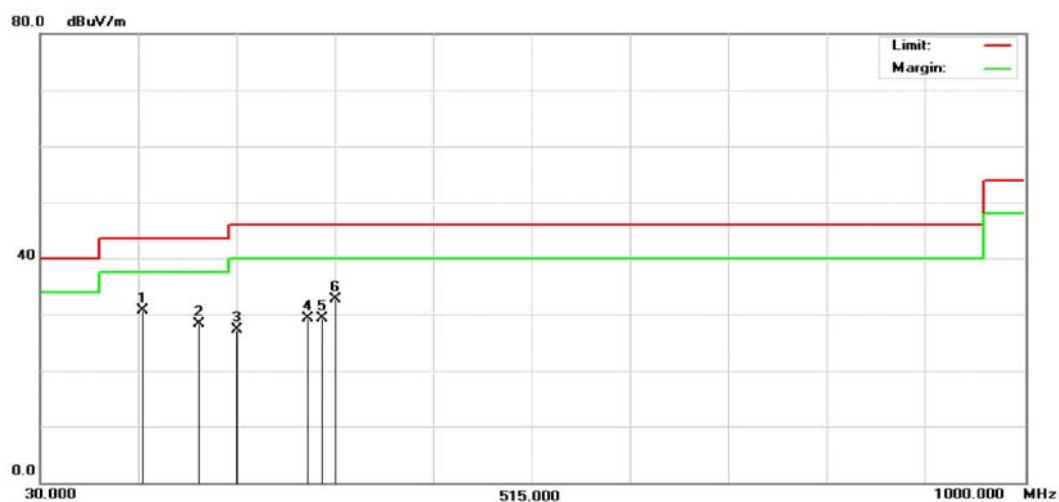
Test Date: Jul. 16, 2009

Frequency Range: 30MHz-1GHz

Test By: Nick

Temperature: 25 °C

Humidity: 65 %



Site :966 Chamber

Polarization: **Vertical**

Temperature: 24 °C

Limit: FCC Class B 3M Radiation

Power: AC 110V/60Hz

Humidity: 60%

Distance: 3m

Air Pressure: hpa

Note: Charge + play 1KHz (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	131.8500	43.58	-12.92	30.66	43.50	-12.84	QP	
2		187.6250	42.34	-14.02	28.32	43.50	-15.18	QP	
3		224.0000	40.81	-13.54	27.27	46.00	-18.73	QP	
4		294.3250	40.59	-11.28	29.31	46.00	-16.69	QP	
5		308.8750	40.41	-11.01	29.40	46.00	-16.60	QP	
6		321.0000	43.39	-10.75	32.64	46.00	-13.36	QP	

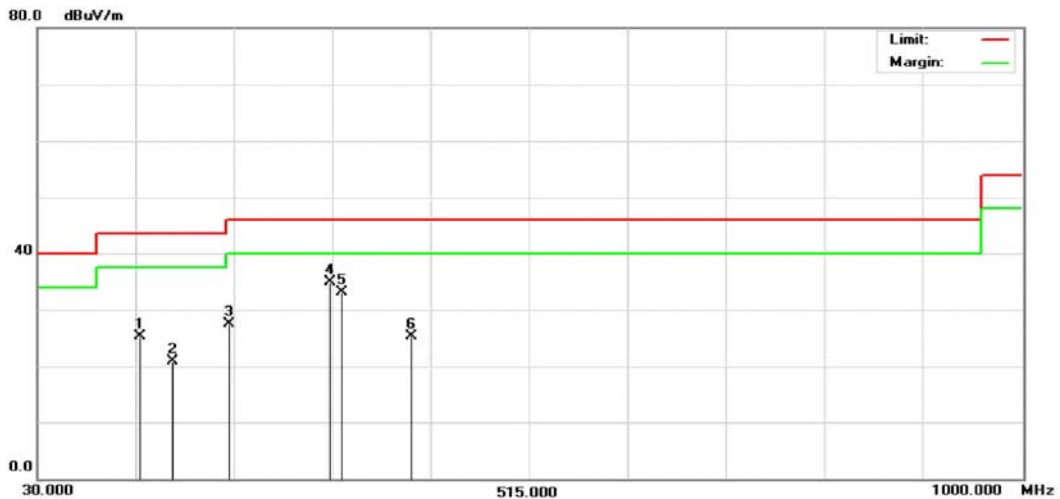
Remark :

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

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Test Mode: Config 1
Frequency Range: 30MHz-1GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Site :966 Chamber

Polarization: **Horizontal**

Temperature: 24 °C

Limit: FCC Class B 3M Radiation

Power: AC 110V/60Hz

Humidity: 60%

Distance: 3m

Air Pressure: hpa

Note: Charge + play 1KHz (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		131.8500	38.15	-12.92	25.23	43.50	-18.27	QP	
2		163.3750	33.59	-12.64	20.95	43.50	-22.55	QP	
3		219.1500	41.34	-13.74	27.60	46.00	-18.40	QP	
4	*	318.5750	45.75	-10.81	34.94	46.00	-11.06	QP	
5		330.7000	43.65	-10.55	33.10	46.00	-12.90	QP	
6		398.6000	33.89	-8.58	25.31	46.00	-20.69	QP	

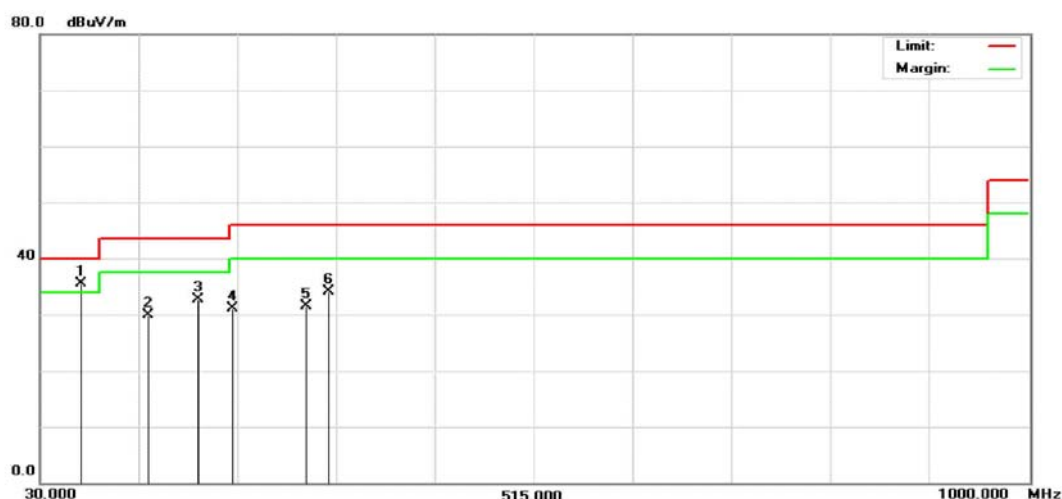
Remark :

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

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Test Mode: Config 2
Frequency Range: 30MHz-1GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Site : 966 Chamber Polarization: **Vertical** Temperature: 24 °C
Limit: FCC Class B 3M Radiation Power: AC 110V/60Hz Humidity: 60%
Distance: 3m Air Pressure: hpa

Note: Charge + camera REC (UE + battery + adaptor ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	71.2250	51.24	-15.78	35.46	40.00	-4.54	QP	
2		136.7000	42.70	-12.75	29.95	43.50	-13.55	QP	
3		184.5900	46.54	-13.78	32.76	43.50	-10.74	QP	
4		219.1500	44.87	-13.74	31.13	46.00	-14.87	QP	
5		291.9000	42.75	-11.31	31.44	46.00	-14.56	QP	
6		313.7250	45.06	-10.91	34.15	46.00	-11.85	QP	

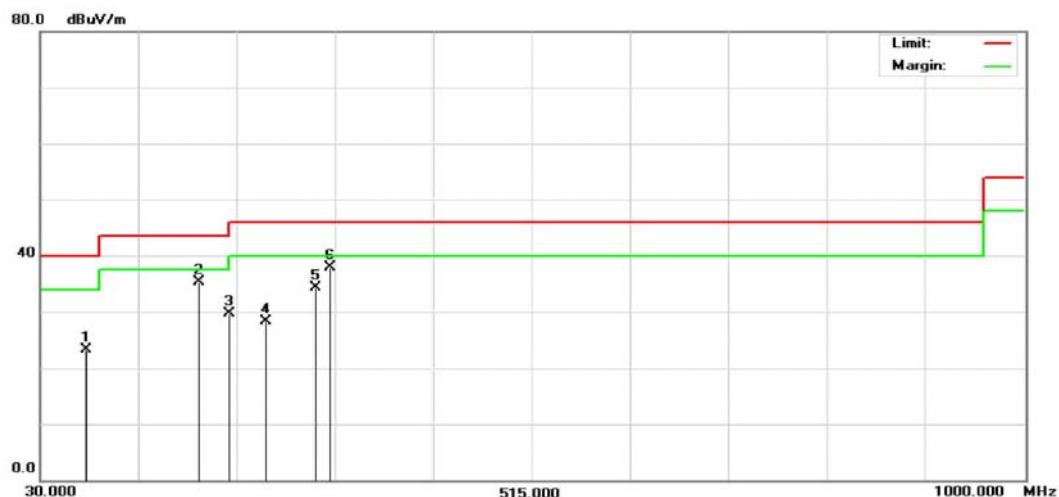
Remark :

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

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Test Mode: Config 2
 Frequency Range: 30MHz-1GHz
 Temperature : 25 °C

Test Date : Jul. 16, 2009
 Test By: Nick
 Humidity : 65 %



Site :966 Chamber

Limit: FCC Class B 3M Radiation

Polarization: **Horizontal**

Power: AC 110V/60Hz

Distance: 3m

Temperature: 24 °C

Humidity: 60%

Air Pressure: hpa

Note: Charge + camera REC (UE + battery + adaptor ; MEID : A000006F3075E)

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.0750	40.06	-16.69	23.37	40.00	-16.63	QP	
2 *	187.6250	49.42	-14.02	35.40	43.50	-8.10	QP	
3	216.7250	43.64	-13.94	29.70	46.00	-16.30	QP	
4	253.1000	41.19	-12.83	28.36	46.00	-17.64	QP	
5	301.6000	45.54	-11.17	34.37	46.00	-11.63	QP	
6	316.1500	48.71	-10.86	37.85	46.00	-8.15	QP	

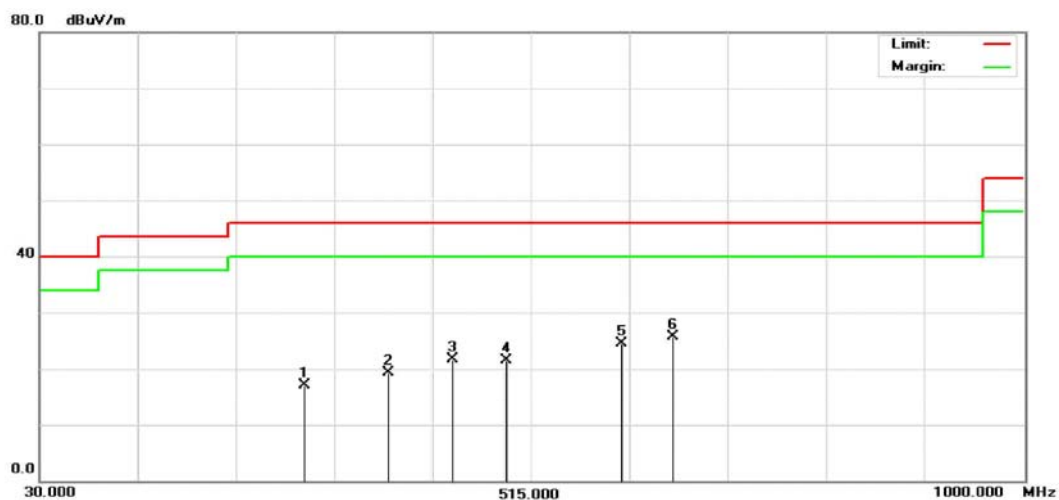
Remark :

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

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Test Mode: Config 3
Frequency Range: 30MHz-1GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Site :966 Chamber Polarization: **Vertical** Temperature: 24 °C
Limit: FCC Class B 3M Radiation Power: DC3.7V Humidity: 60%
Distance: 3m Air Pressure: hpa

Note: Play 1KHz (UE + battery + SHF ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		291.9000	28.45	-11.31	17.14	46.00	-28.86	QP	
2		374.3500	28.58	-9.36	19.22	46.00	-26.78	QP	
3		437.4000	29.09	-7.43	21.66	46.00	-24.34	QP	
4		490.7500	28.38	-6.95	21.43	46.00	-24.57	QP	
5		604.7250	28.66	-4.18	24.48	46.00	-21.52	QP	
6	*	655.6500	28.77	-3.01	25.76	46.00	-20.24	QP	

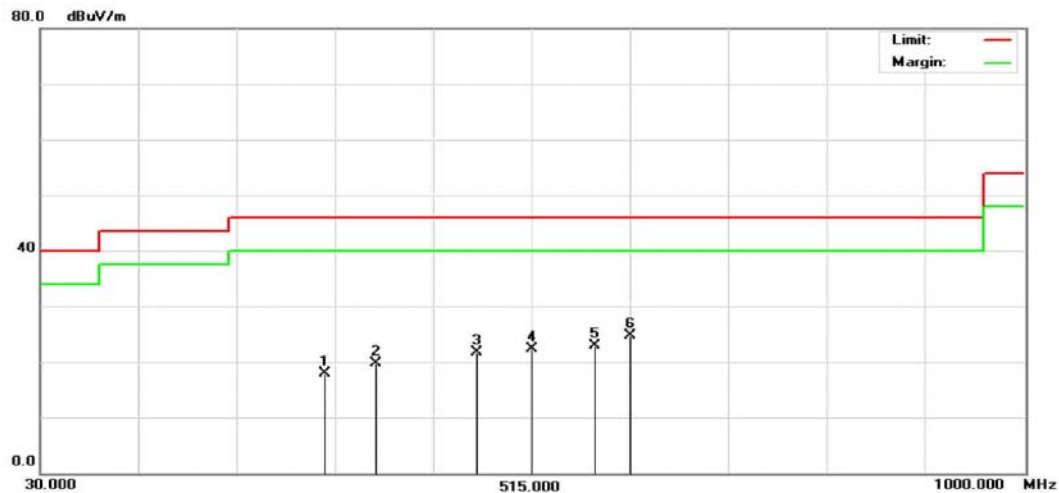
Remark :

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

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Test Mode: Config 3
 Frequency Range: 30MHz-1GHz
 Temperature : 25 °C

Test Date : Jul. 16, 2009
 Test By: Nick
 Humidity : 65 %



Site :966 Chamber

Polarization: **Horizontal**

Temperature: 24 °C

Limit: FCC Class B 3M Radiation

Power: DC3.7V

Humidity: 60%

Distance: 3m

Air Pressure: hpa

Note: Play 1KHz (UE + battery + SHF ; MEID : A000006F3075E)

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	311.3000	28.94	-10.96	17.98	46.00	-28.02	QP	
2	362.2250	29.39	-9.75	19.64	46.00	-26.36	QP	
3	461.6500	28.69	-7.03	21.66	46.00	-24.34	QP	
4	515.0000	29.01	-6.64	22.37	46.00	-23.63	QP	
5	578.0500	27.90	-5.04	22.86	46.00	-23.14	QP	
6 *	612.0000	28.64	-4.02	24.62	46.00	-21.38	QP	

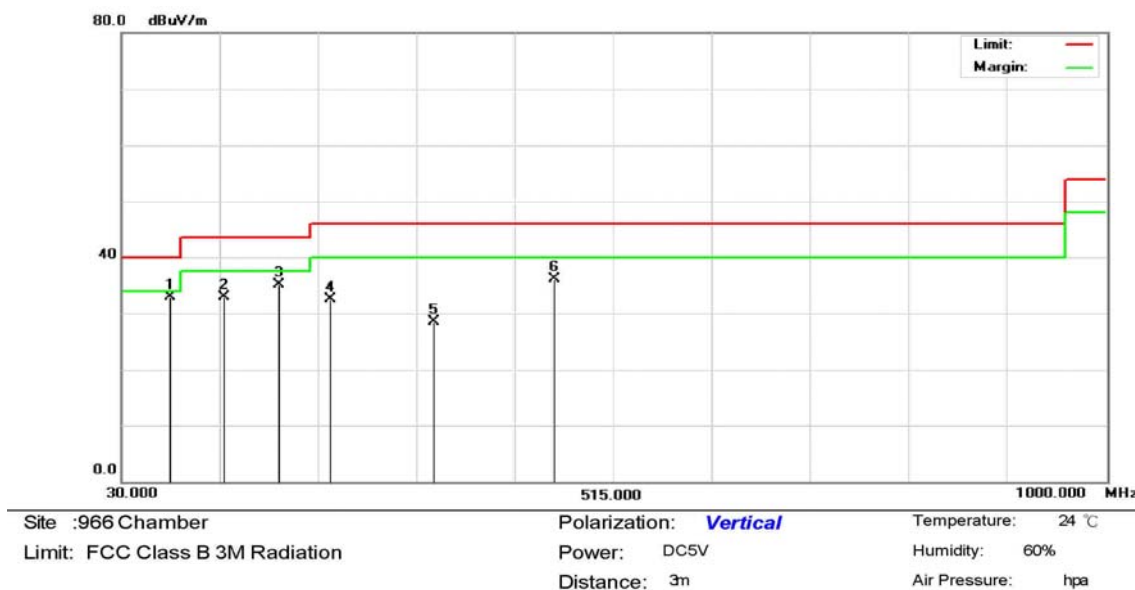
Remark :

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

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Test Mode: Config 4
Frequency Range: 30MHz-1GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Note: Data link (UE + battery + USB cable ; MEID : A000006F3075E)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	78.5000	50.03	-17.22	32.81	40.00	-7.19	QP	
2		131.8500	45.89	-12.92	32.97	43.50	-10.53	QP	
3		185.2000	48.93	-13.83	35.10	43.50	-8.40	QP	
4		236.1250	45.76	-13.21	32.55	46.00	-13.45	QP	
5		337.9750	38.84	-10.39	28.45	46.00	-17.55	QP	
6		456.8000	43.11	-7.04	36.07	46.00	-9.93	QP	

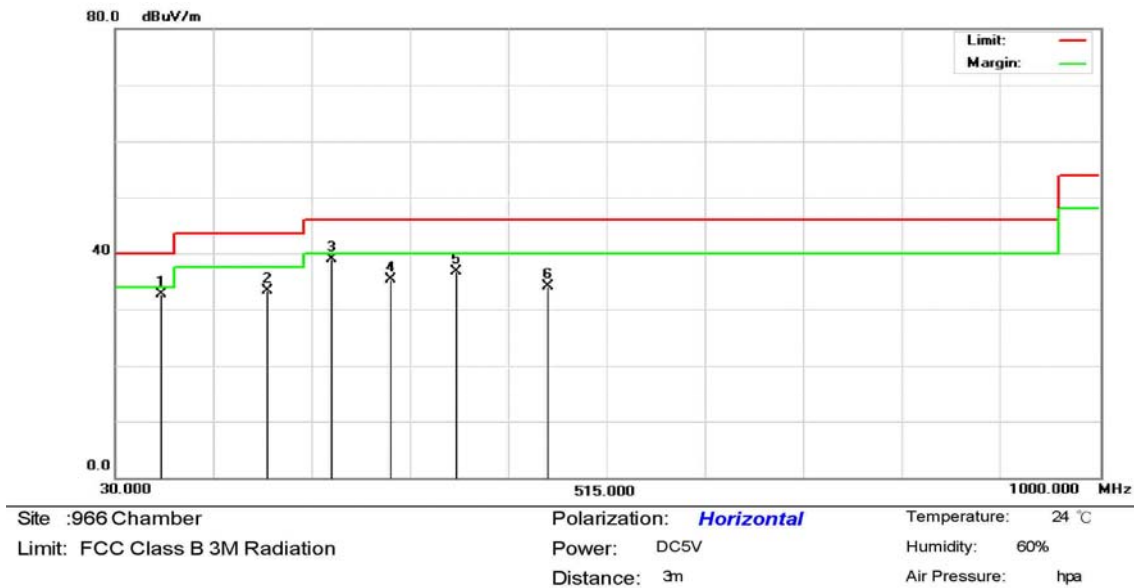
Remark :

- (1) Measuring frequencies from 1GHz to the 13GHz .
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 4
Frequency Range: 30MHz-1GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Note: Data link (UE + battery + USB cable ; MEID : A000006F3075E)

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.0750	49.45	-16.69	32.76	40.00	-7.24	QP	
2	180.3500	46.68	-13.44	33.24	43.50	-10.26	QP	
3 *	243.4000	52.03	-13.05	38.98	46.00	-7.02	QP	
4	301.6000	46.45	-11.17	35.28	46.00	-10.72	QP	
5	367.0750	46.38	-9.59	36.79	46.00	-9.21	QP	
6	456.8000	41.08	-7.04	34.04	46.00	-11.96	QP	

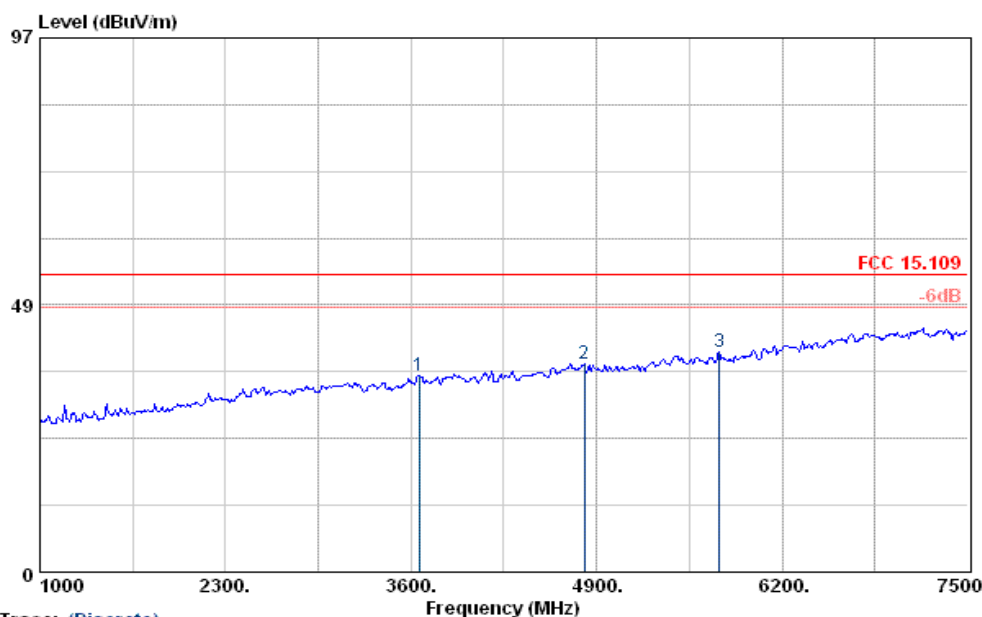
Remark :

- (1) Measuring frequencies from 1GHz to the 13GHz .
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Trace: (Discrete)
Site : RF Site
Condition : FCC 15.109 3m BBHA9120D VERTICAL
Project No. : EI-2009-70003
Accessory : AC Adapter: YES
: Earphone: N/A
: USB Cable: N/A
Test Mode : Charge + play 1KHz (UE+Battery+Adaptor)
Temp./Humid. : 25 deg. C/65 RH
Engineer : Nick

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	3658.50	44.80	28.86	44.54	6.57	-9.11	35.69	54.00	-18.31	Peak
2	4815.50	43.77	31.20	44.39	7.18	-6.01	37.76	54.00	-16.24	Peak
3	5758.00	44.39	32.32	44.83	8.09	-4.42	39.97	54.00	-14.03	Peak

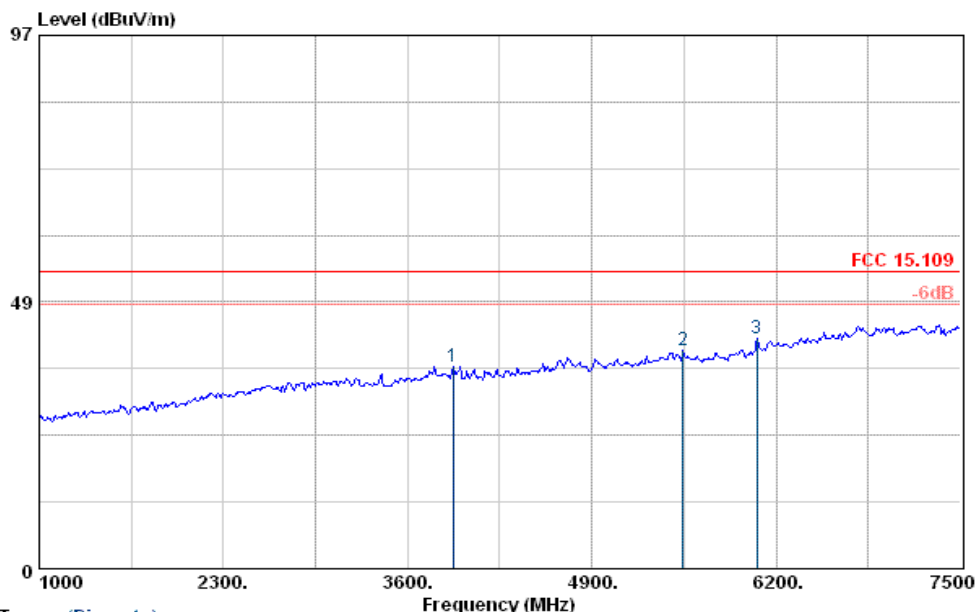
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz .
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.109 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-70003
Accessory : AC Adapter: YES
: Earphone: N/A
: USB Cable: N/A
Test Mode : Charge + play 1KHz (UE+Battery+Adaptor)
Temp./Humid. : 25 deg. C/65 RH
Engineer : Nick

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
		dBuV								
1	3918.50	45.55	29.50	44.68	6.51	-8.67	36.88	54.00	-17.12	Peak
2	5543.50	44.41	31.98	44.40	7.77	-4.65	39.76	54.00	-14.24	Peak
3	6063.50	44.98	32.97	44.55	8.44	-3.14	41.84	54.00	-12.16	Peak

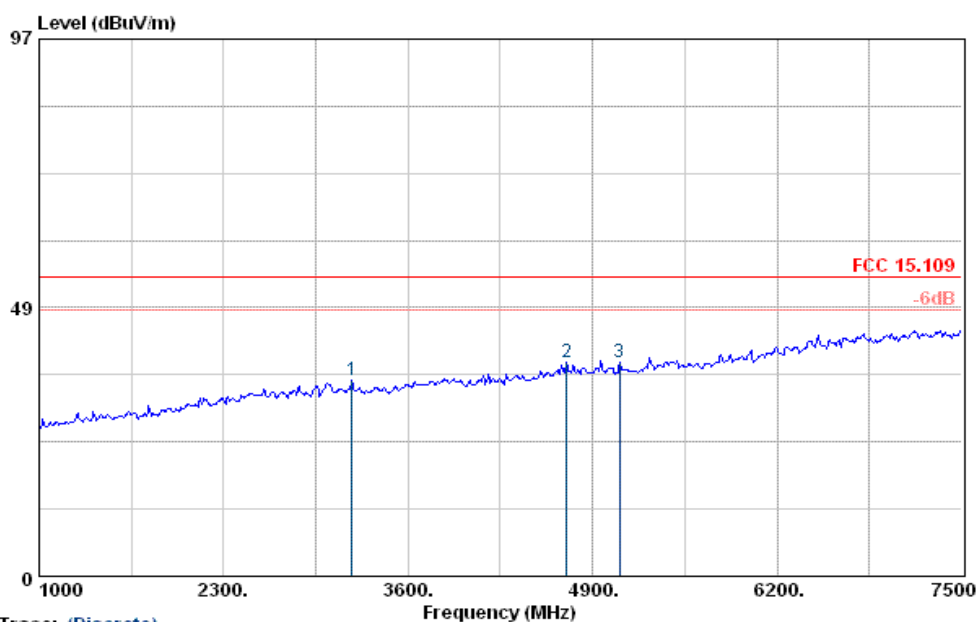
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz.
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 2
 Frequency Range: 1GHz – 7.5GHz
 Temperature : 25 °C

Test Date : Jul. 16, 2009
 Test By: Nick
 Humidity : 65 %



Trace: (Discrete)
 Site : RF Site
 Condition : FCC 15.109 3m BBHA9120D VERTICAL
 Project No. : EI-2009-70003
 Accessory : AC Adapter: YES
 : Earphone: N/A
 : USB Cable: N/A
 Test Mode : Charge + camera REC (UE+Battery+A daptor)
 Temp./Humid. : 25 deg. C/65 RH
 Engineer : Nick

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	3203.50	45.76	28.35	44.03	5.29	-10.39	35.37	54.00	-18.63	Peak
2	4718.00	44.73	31.04	44.27	7.08	-6.15	38.58	54.00	-15.42	Peak
3	5088.50	44.33	31.62	44.57	7.33	-5.62	38.71	54.00	-15.29	Peak

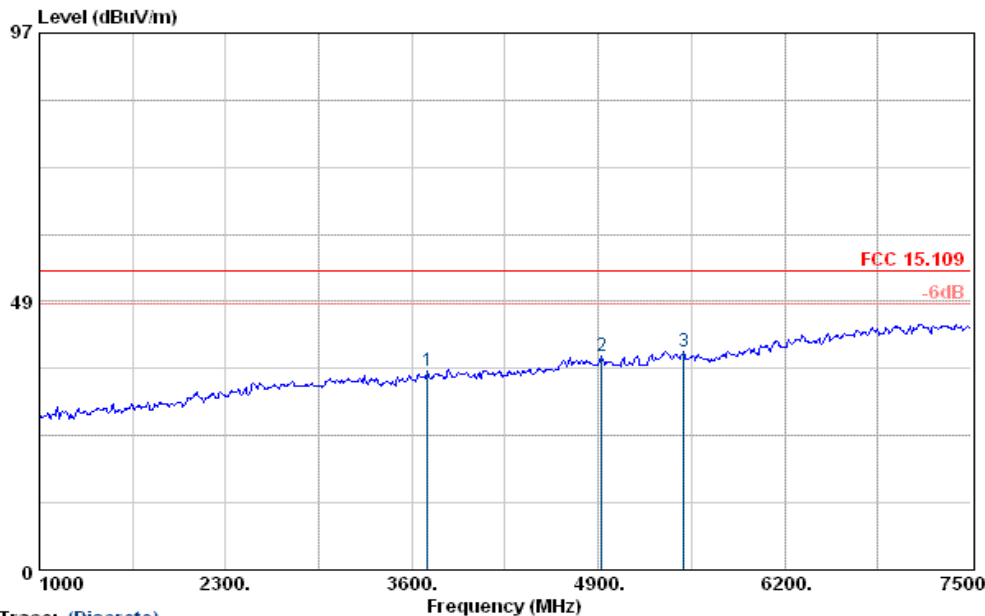
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz .
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Trace: (Discrete)
Site : RF Site
Condition : FCC 15.109 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-70003
Accessory : AC Adapter: YES
: Earphone: N/A
: USB Cable: N/A
Test Mode : Charge + camera REC (UE+Battery+Adaptor)
Temp./Humid. : 25 deg. C/65 RH
Engineer : Nick

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remar
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3710.50	44.65	28.98	44.58	6.78	-8.82	35.83	54.00	-18.17 Peak
2	4926.00	44.58	31.42	44.54	7.21	-5.91	38.67	54.00	-15.33 Peak
3	5498.00	44.02	31.95	44.34	7.73	-4.66	39.36	54.00	-14.64 Peak

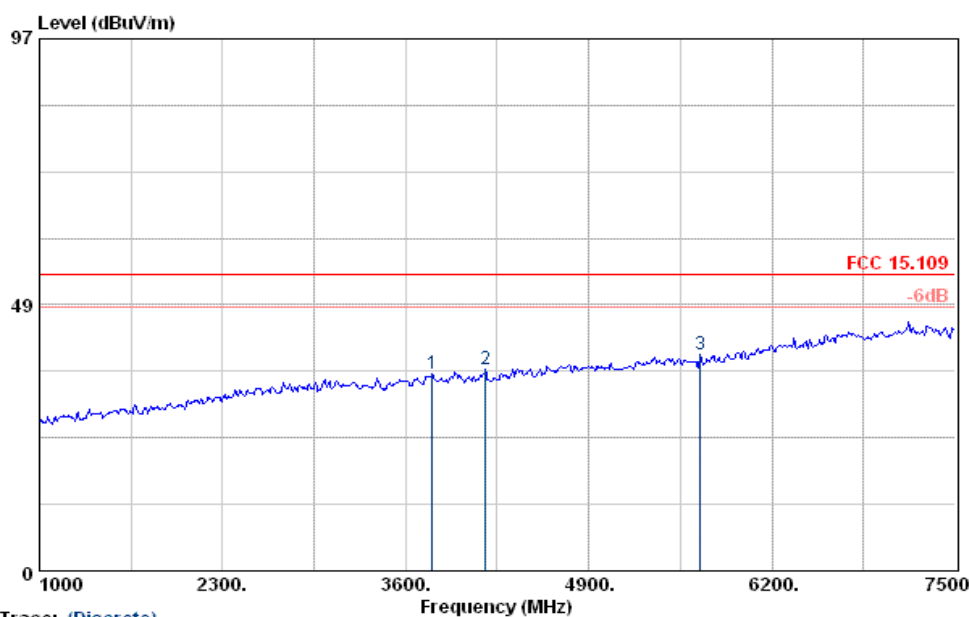
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz.
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.109 3m BBHA9120D VERTICAL
Project No. : EI-2009-70003
Accessory : AC Adapter:N/A
: Earphone:YES
: USB Cable:N/A
Test Mode : Play 1KHz (UE+Battery+SHF)
Temp./Humid. : 25 deg. C/65 RH
Engineer : Nick

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	3788.50	44.57	29.18	44.63	6.91	-8.54	36.03	54.00	-17.97	Peak
2	4165.50	44.96	29.98	44.65	6.54	-8.13	36.83	54.00	-17.17	Peak
3	5693.00	43.97	32.19	44.74	7.98	-4.57	39.40	54.00	-14.60	Peak

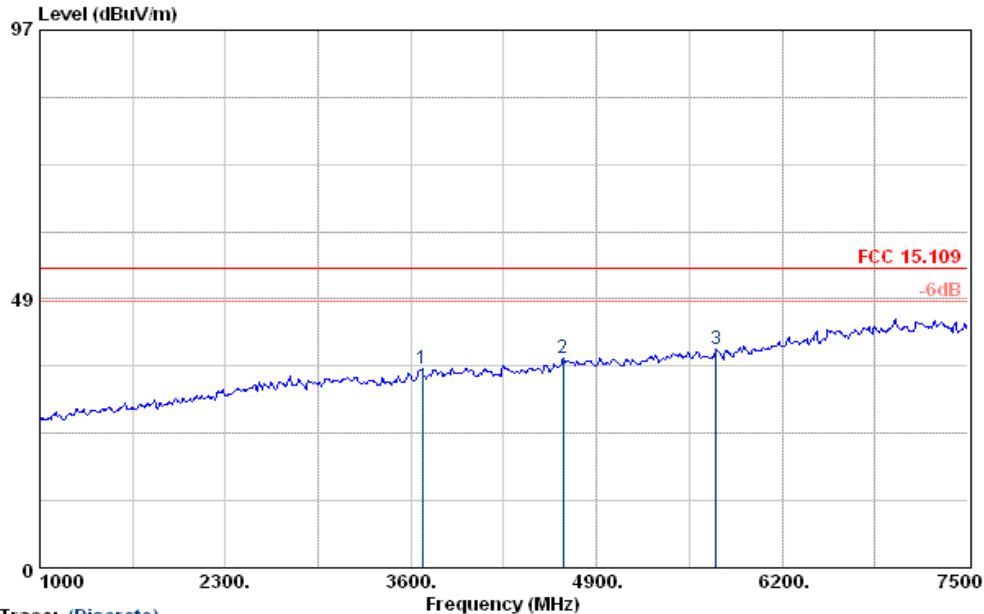
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz .
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.109 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-70003
Accessory : AC Adapter:N/A
: Earphone:YES
: USB Cable:N/A
Test Mode : Play 1KHz (UE+Battery+SHF)
Temp./Humid. : 25 deg. C/65 RH
Engineer : Nick

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	3678.00	44.78	28.94	44.56	6.67	-8.95	35.83	54.00	-18.17 Peak
2	4666.00	44.24	30.94	44.27	6.99	-6.34	37.90	54.00	-16.10 Peak
3	5738.50	44.01	32.29	44.86	8.05	-4.52	39.49	54.00	-14.51 Peak

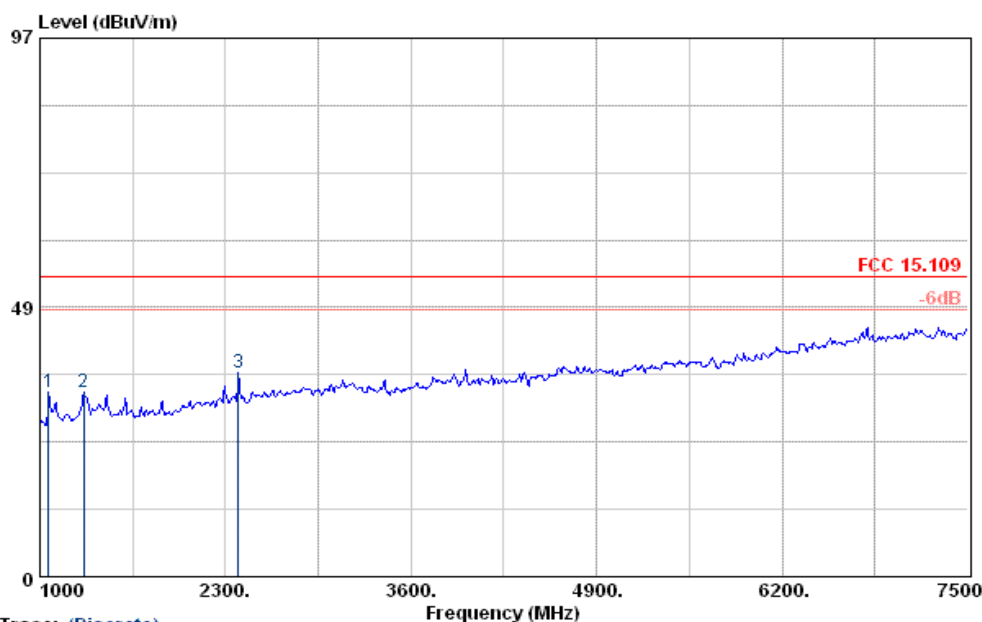
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz.
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 4
 Frequency Range: 1GHz – 7.5GHz
 Temperature : 25 °C

Test Date : Jul. 16, 2009
 Test By: Nick
 Humidity : 65 %



Trace: (Discrete)
 Site : RF Site
 Condition : FCC 15.109 3m BBHA9120D VERTICAL
 Project No. : EI-2009-70003
 Accessory : AC Adapter:N/A
 : Earphone:N/A
 : USB Cable:YES
 Test Mode : Data link (UE+Battery+USb cable)
 Temp./Humid. : 25 deg. C/65 RH
 Engineer : Nick

	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	1058.50	49.18	24.32	43.45	3.20	-15.93	33.25	54.00	-20.75	Peak
2	1305.50	48.25	24.65	43.25	3.58	-15.02	33.23	54.00	-20.77	Peak
3	2391.00	47.55	27.23	42.99	5.00	-10.76	36.79	54.00	-17.21	Peak

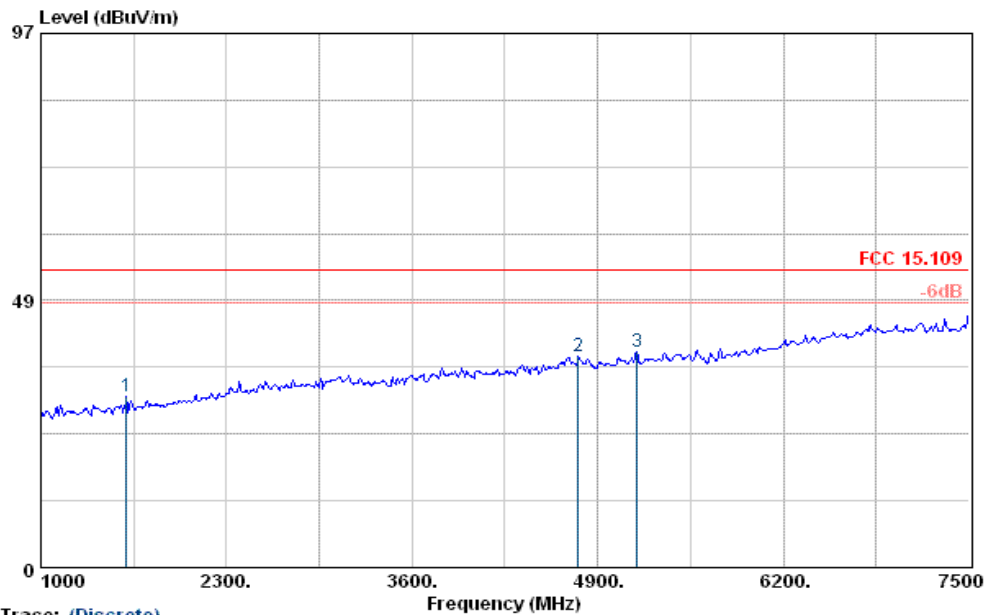
Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz .
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz
Temperature : 25 °C

Test Date : Jul. 16, 2009
Test By: Nick
Humidity : 65 %



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.109 3m BBHA9120D HORIZONTAL
Project No. : EI-2009-70003
Accessory : AC Adapter:N/A
: Earphone:N/A
: USB Cable:YES
Test Mode : Data link (UE+Battery+USb cable)
Temp./Humid. : 25 deg. C/65 RH
Engineer : Nick

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	Remar
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
		dBuV	dB/m	dB	dB	dB/m		dBuV/m	dB	
1	1598.00	44.91	25.10	43.01	3.96	-13.95	30.96	54.00	-23.04	Peak
2	4763.50	44.38	31.10	44.31	7.17	-6.04	38.34	54.00	-15.66	Peak
3	5173.00	44.63	31.68	44.48	7.44	-5.36	39.27	54.00	-14.73	Peak

Remark :

- (1) Measuring frequencies from 1GHz to the 7.5GHz.
- (2) All Readings above 1GHz are Peak and Average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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