

FCC 47 CFR PART 15 SUBPART C **TEST REPORT**

For

Applicant: Newport Wholesale

Address: 11037 Warner Ave #201, Fountain Valley, CA, 92708

Product Name: GSM Mobile Phone

Model Name: BB6

Brand Name: MAXWEST

FCC ID: YNFBB6

Report No. : STS101203F2

Date of Issue: December. 10, 2010

Issued by: Shenzhen Super Test Service Technology Co., Ltd.

Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: GSM Mobile Phone

Brand Name: MAXWEST

Model Number: BB6

FCC ID: YNFBB6

Applicant: Newport Wholesale

11037 Warner Ave #201, Fountain Valley, CA, 92708

Manufacturer: Newport Wholesale

11037 Warner Ave #201, Fountain Valley, CA, 92708

Technical Standards: 47 CFR Part 15 Subpart C

File Number: STS101203F2

Date of test: December. 7, 2010 ~ December. 10, 2010

Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Petter Ping/Engineer December. 10, 2010

Petter ping

Review by (+ signature):

July Wen/Lab Manager December, 10, 2010

Teo Yang

Approved by (+ signature):

Terry Yang/Manager December. 10, 2010

2. GENERAL INFORMATION

2.1 Product Information

Product	GSM Mobile Phone
Trade Name	MAXWEST
Model Number	BB6
Series Number:	N/A
Description of Differences:	N/A
Power Supply	DC 5V by AC/DC adapter DC 3.7V by battery;
Frequency Range	2402 MHz -2480MHz
Modulation Type	FHSS
Antenna Type:	Internal Fixed
Channel Number	79
Temperature Range	-20°C ~ 50°C

NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title			
1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices			

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.249(a)	Spurious Emission	PASS	2010-12-9
2	15.249(a)	Band Edge	PASS	2010-12-9
3	15.207	Power Line Conducted Emission Test	PASS	2010-12-7

Note

- 1. The test result judgment is decided by the limit of measurement standard
- 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY 3.1TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements.

The FCC Registration Number is **490827**. The **IC** Registration Number is **46405-7103**.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

EUT Function and Test Mode

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz		
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7		
6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 (²)		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SUPPORT EQUIPMENT

Device Type	Brand	Model	Series No.	Data Cable	Power Cable
SD Card	Transcend	1.0G	N/A	N	I/A

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2010/03/14	2011/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2010/03/14	2011/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2010/03/14	2011/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2010/03/14	2011/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2010/03/14	2011/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2010/03/14	2011/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2010/03/14	2011/03/14
8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C		2010/03/14	2011/03/14
9	Test Antenna - LOOP	Schwarzbeck	VULB 9163		2010/03/14	2011/03/14
10	Cable	Resenberger	N/A	NO.1	2010/03/14	2011/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2010/03/14	2011/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2010/03/14	2011/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2010/03/14	2011/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2010/03/14	2011/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2010/03/14	2011/03/14
16	Spectrum Analyzer	Agilent	4408B	MY41440460	2010/03/14	2011/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2010/03/14	2011/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2010/03/14	2011/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2010/03/14	2011/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2010/03/14	2011/03/14
21	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2010/03/14	2011/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2010/03/14	2011/03/14
23	EMCPRO System	EM Test	UCS-500-M4	V064810202 6	2010/03/14	2011/03/14
24	Signal Generator	IFR	2032	203002/100	2010/03/14	2011/03/14
25	Amplifier	A&R	150W1000	301584	2010/03/14	2011/03/14
26	CDN	FCC	FCC-801-M2-25	47	2010/03/14	2011/03/14
27	CDN	FCC	FCC-801-M3-25	107	2010/03/14	2011/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2010/03/14	2011/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2010/03/14	2011/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2010/03/14	2011/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2010/03/14	2011/03/14
32	Temperature Chamber	Guangzhou Gongwen	GDS-250	N/A	2010/03/14	2011/03/14

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15C 15.249 Requirements

5.1 Spurious Emission Test

5.1.1 Requirement

According to FCC section 15.249(a):

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

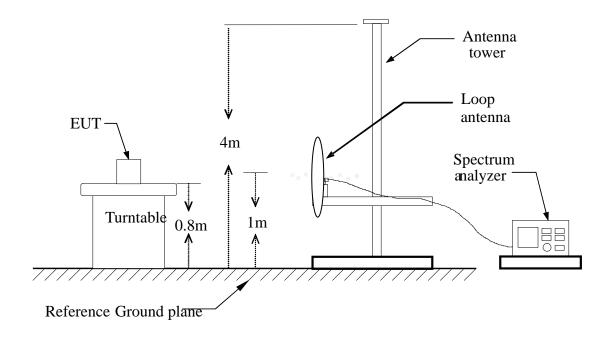
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

In the above emission table, the tighter limit applies at the band edges.

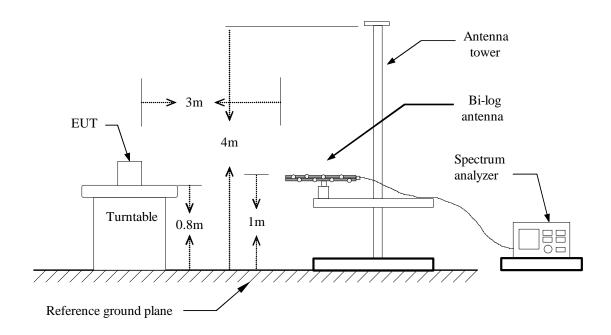
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

5.1.2 Test Description

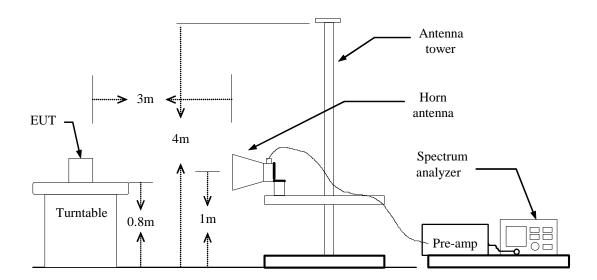
Test Setup:



Blow 1GHz:



Above 1GHz:



5.1.3 Test Description

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

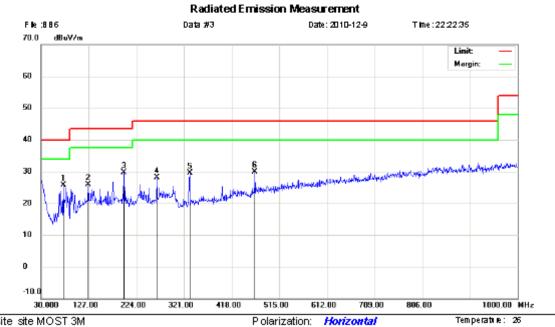
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.1.4 Test Result



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86170306 Fax 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: GSM MOBILE PHONE

M/N: BB6

Mode: BLUETOOTH Note: CH High

Plower: AC 120V60Hz

Distance:

Ham ld fly:

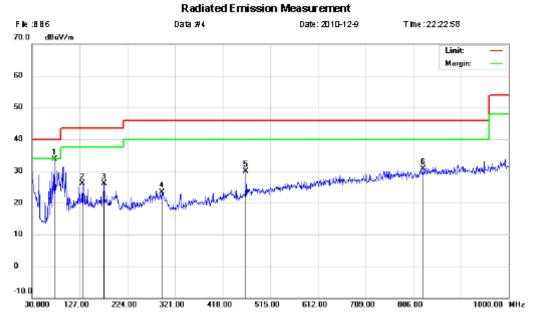
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBŧV	dB	dB+V/m	dBiV/m	dB	Defector	cm	degree	Comment
1		75.5900	14.10	11.62	25.72	40.00	-14.28	peak			
2		126,0300	8.14	17.70	25.84	43.50	-17.66	peak			
3	*	198.7800	12.52	17.27	29.79	43.50	-13.71	peak			
4		265.7100	9.73	18.35	28.08	46.00	-17.92	peak			
5		332,6400	12.57	17.03	29.60	46.00	-16.40	peak			
6		465.5300	8.97	20.98	29.95	46.00	-16.05	peak			

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: GSM MOBILE PHONE

M/N: BB6

Mode: BLUETOOTH Note: CH High

Temperative: 26 Polarization: Vertical Plower: AC 120V/60Hz Ham ld fly:

Distance:

6D %

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHZ	dBŧV	₫₿	dB+V/m	dBqV/m	dB	Defector	cm	degree	Commett
1	*	75.5900	22.10	11.62	33.72	40.00	-6.28	peak			
2		132,8200	8.57	17.56	26.13	43.50	-17.37	peak			
3		176.4700	9.24	16.88	26.12	43.50	-17.38	peak			
4		293,8400	4.04	19.32	23.36	46.00	-22.64	peak			
5		465.5300	8.83	20.98	29.81	46.00	-16.19	peak			
6		826,3700	3.89	26.85	30.74	46.00	-15.26	peak			

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax 0755-86170310

Radiated Emission Measurement Data #5 Date: 2010-12-9 Time:22:23:56 F Ne :886 70.0 Margin 60 50 40 30 20 10 -10.0 224.00 321.00 418.00 806.00 1000.00 MHz 30.000 127.00 515.00 612.00 709.00

Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: GSM MOBILE PHONE

M/N: BB6

Mode: BLUETOOTH
Note: CH Mid

Plower: AC 120V/60Hz

Polarization: Vertical

Hum id fly:

Temperative: 26

6D %

Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBŧV	₫₿	d8+V/m	dBqV/m	dB	Defector	cm	degree	Commett
1	*	94.0200	23.83	11.92	35.75	43.50	-7.75	peak			
2		176.4700	11.23	16.88	28.11	43.50	-15.39	peak			
3		266,6800	8.84	18.47	27.31	46.00	-18.69	peak			
4		332,6400	6.40	17.03	23.43	46.00	-22.57	peak			
5		381.1400	3.74	18.12	21.86	46.00	-24.14	peak			
6		465.5300	8.93	20.98	29.91	46.00	-16.09	peak			

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax 0755-86170310

Radiated Emission Measurement Data #6 Date: 2010-12-9 Time:22:24:15 F Ne :886 70.0 Margin 60 50 40 30 20 10 -10.0 418.00 127.00 224.00 321.00 515.00 806.00 1000.00 MHz 30.000 612.00 709.00

Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: GSM MOBILE PHONE

M/N: BB6

Mode: BLUETOOTH
Note: CH Mid

Plower: AC 120V/60Hz

Polarization: Horizontal

Distance:

Temperative: 26

6D %

Ham ld fly:

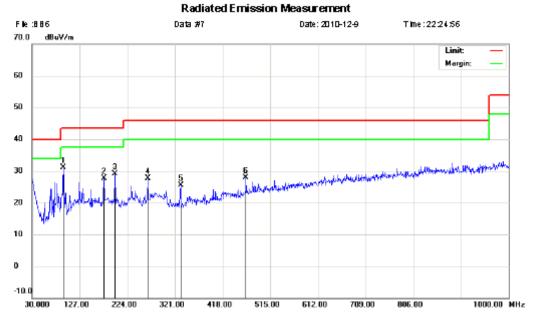
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHZ	dBŧV	₫₿	dB+V/m	dBiV/m	dB	Detector	cm	degree	Commett
1	*	82.3800	14.40	11.35	25.75	40.00	-14.25	peak			
2		176.4700	10.43	16.88	27.31	43.50	-16.19	peak			
3		198.7800	11.95	17.27	29.22	43.50	-14.28	peak			
4		265.7100	9.13	18.35	27.48	46.00	-18.52	peak			
5		332,6400	11.45	17.03	28.48	46.00	-17.52	peak			
6		465.5300	10.77	20.98	31.75	46.00	-14.25	peak			

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: GSM MOBILE PHONE

M/N: BB6

Mode: BLUETOOTH Note: CH Low

Polarization: Horizontal

Plower: AC 120V/60Hz

Temperative: 26 6D %

Ham ld fly:

Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBŧV	₫₿	dB+V/m	dBiV/m	dB	Defector	cm	degree	Commest
1	*	94.0200	19.09	11.92	31.01	43.50	-12.49	peak			
2		176.4700	10.73	16.88	27.61	43.50	-15.89	peak			
3		198.7800	11.91	17.27	29.18	43.50	-14.32	peak			
4		265.7100	9.29	18.35	27.64	46.00	-18.36	peak			
5		332,6400	8.45	17.03	25.48	46.00	-20.52	peak			
6		465.5300	6.85	20.98	27.83	46.00	-18.17	peak			

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax 0755-86170310

Radiated Emission Measurement Data #8 Date: 2010-12-9 Time: 22:25:17 F Ne :886 70.0 Margin 60 50 40 30 20 10 -10.0 224.00 321.00 418.00 709.00 1000.00 MHz 30.000 127.00 515.00 612.00 806.00

Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: GSM MOBILE PHONE

M/N: BB6

Mode: BLUETOOTH Note: CH Low

Temperative: 26 Polarization: Vertical Plower: AC 120V/60Hz Ham ld fly:

6D %

Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHZ	dBŧV	dB	dB+V/m	dBiV/m	dB	Defector	cm	degree	Comment
1	*	94.0200	23.85	11.92	35.77	43.50	-7.73	peak			
2		176,4700	11.96	16.88	28.84	43.50	-14.66	peak			
3		265.7100	5.24	18.35	23.59	46.00	-22.41	peak			
4		437.4000	3.26	20.32	23.58	46.00	-22.42	peak			
5		604 2400	5.44	23.17	28.61	46.00	-17.39	peak			
- 6		779.8100	3.79	26.20	29.99	46.00	-16.01	peak			

^{*:}Maximum data x:Over limit !:over margin

Above 1 GHz

Operation Mode: CH Low **Test Date:** December. 9, 2010

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	ıal Fs	Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2402.10	Н	94.19	75.39	9.08	103.27	84.47	114.00	94.00	-9.53
4805.00	Н	48.69	30.11	16.54	65.23	46.65	74.00	54.00	-7.35
N/A									>20
2402.10	V	77.55	73.75	9.08	86.63	82.83	114.00	94.00	-11.17
4805.00	V	40.64	28.56	16.54	57.18	45.10	74.00	54.00	-8.90
N/A									>20

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 5. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 6. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 7. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: CH Mid Test Date: December. 9, 2010

Temperature: 20°C **Tested by:** Petter Ping

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Ec	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Actu	ai FS	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2441.50	Н	92.86	72.35	9.12	101.98	81.47	114.00	94.00	-12.53
4892.50	Н	35.50	29.76	17.09	52.59	46.85	74.00	54.00	-7.15
N/A									>20
2441.50	V	92.75	72.16	9.12	101.87	81.28	114.00	94.00	-12.72
4892.50	V	34.88	25.08	17.09	51.97	42.17	74.00	54.00	-11.83
N/A									>20

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 5. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 6. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 7. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: CH High **Test Date:** December. 9, 2010

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2480.00	Н	94.39	76.37	9.15	103.54	85.52	114.00	94.00	-8.48
4960.50	Н	48.37	28.24	17.49	65.86	45.73	74.00	54.00	-8.27
N/A									>20
2480.00	V	93.29	74.19	9.15	102.44	83.34	114.00	94.00	-10.66
4960.50	V	44.78	26.09	17.49	62.27	43.58	74.00	54.00	-10.42
N/A									>20

Notes:

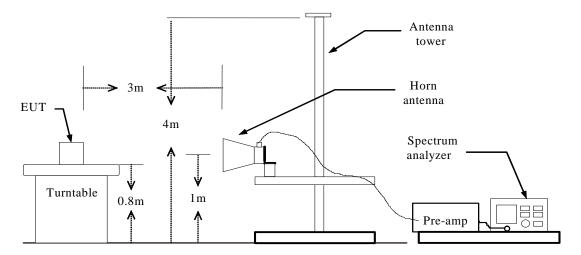
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 5. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 6. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 7. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

5.2 Band Edge

5.2.1 Requirement

According to FCC section 15.249(a), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

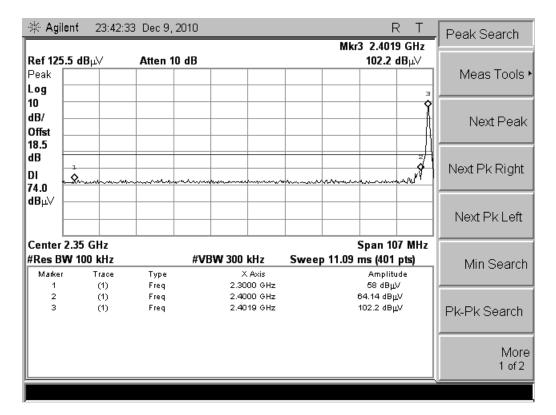
5.2.2 Test Description



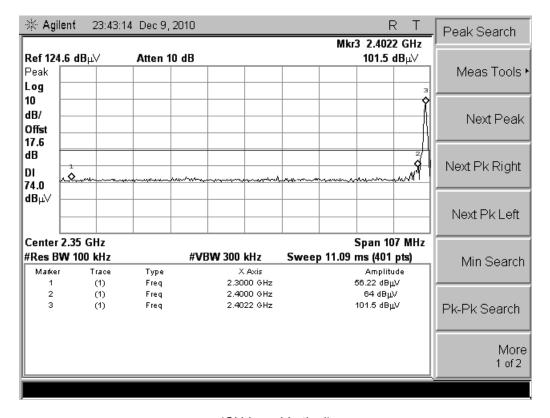
5.2.3Test Result

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

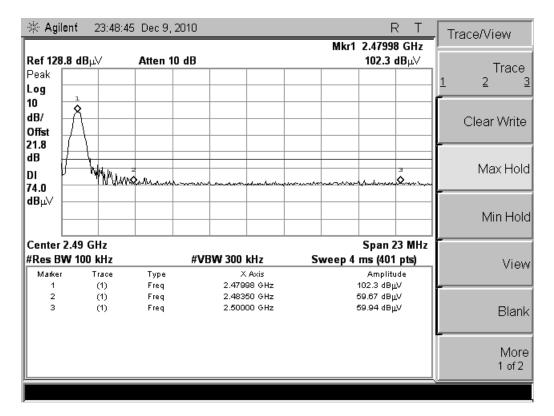
Test Plot:



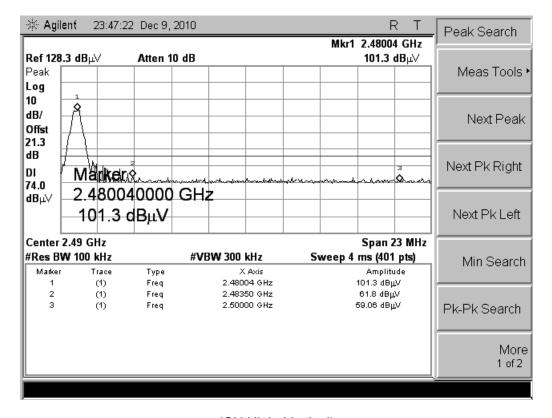
(CH Low, Horizontal)



(CH Low, Vertical)



(CH High, Horizontal)



(CH High, Vertical)

5.3 Conducted Emission

5.3.1 Definition

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \, \mu H/50$ ohms line impedance stabilization network (LISN).

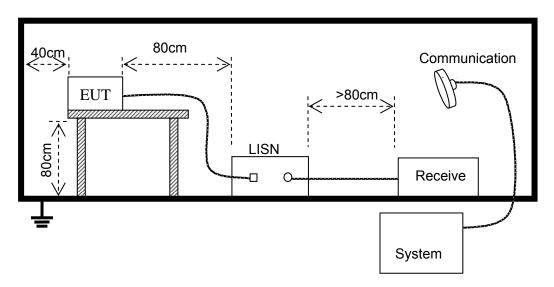
Fraguency	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2 Test Description

The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.

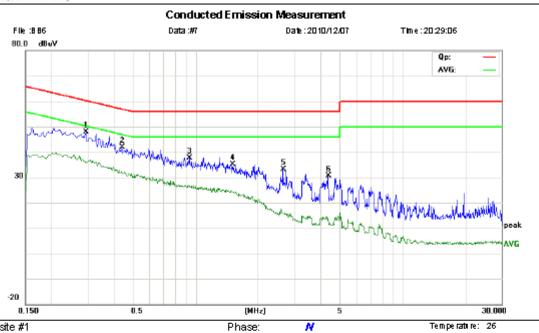


5.3.3 Test Result

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86170306 Fax 0755-86170310



Power: AC 120V/60Hz

Hamildby: 60%

Site site #1 Limit: FCC Part15 B Class B QP

EUT: GSM Mobile Phone

M/N: BB6

Mode: BLUETOOTH

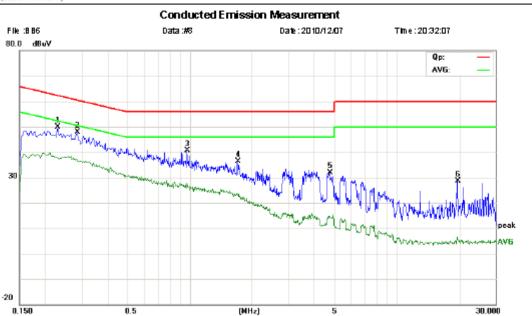
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHZ	dBŧV	dB	dB∢V	dBiV	dB	Defector	Comment
1 *	0.2940	36.60	11.37	47.97	60.41	-12.44	peak	
2	0.4380	31.57	10.41	41.98	57.10	-15.12	peak	
3	0.9300	27.72	10.00	37.72	56.00	-18.28	peak	
4	1.4980	25.68	9.50	35.18	56.00	-20.82	peak	
5	2.6380	23.59	9.64	33.23	56.00	-22.77	peak	
6	4.3420	19.21	11.34	30.55	56.00	-25.45	peak	

^{*:}Maximum data x:Overlimit !:overmargin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86170306 Fax: 0755-86170310



Site site #1 Limit: FCC Part15 BClass BQP

EUT: GSM Mobile Phone

M/N: BB6

Mode: BLUETOOTH

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHZ	dBŧV	dB	dB∢V	dBiV	dB	Defector	Comment
1 *	0.2300	38.01	11.80	49.81	62.45	-12.64	peak	
2	0.2860	36.42	11.43	47.85	60.64	-12.79	peak	
3	0.9660	30.55	10.00	40.55	56.00	-15.45	peak	
4	1.7020	27.13	9.30	36.43	56.00	-19.57	peak	
5	4.7260	20.13	11.73	31.86	56.00	-24.14	peak	
6	19.6140	19.75	9.00	28.75	60.00	-31.25	peak	

Phase:

Power: AC 120V/60Hz

L1

Temperature: 26

Ham lidiby: 60 %

^{*:}Maximum data x:Over limit !:over margin

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



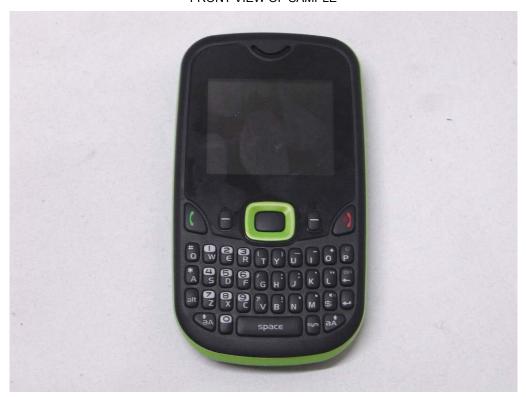
RE TEST SETUP





APPENDIX 2 PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



PHOTO OF POWER SUPPLY



PHOTO OF USB CABLE



PHOTO OF HEADPHONE



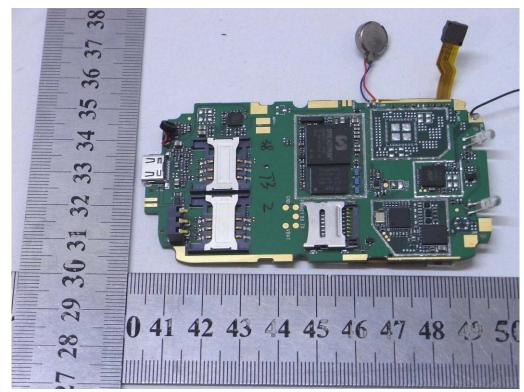
PHOTO OF BATTERY



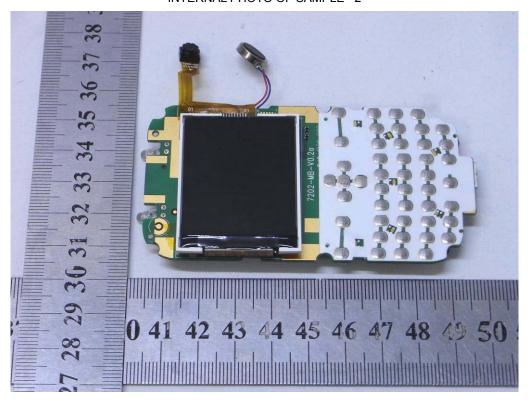
PHOTO OF THE ENTIRE SAMPLE



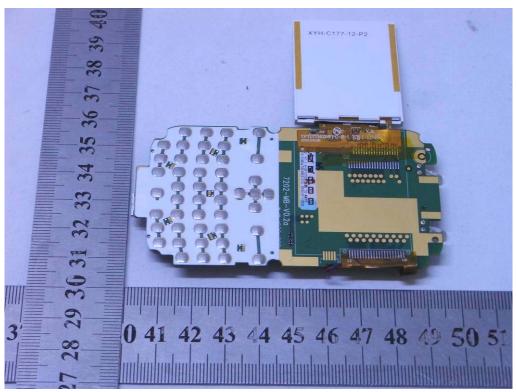
INTERNAL PHOTO OF SAMPLE - 1



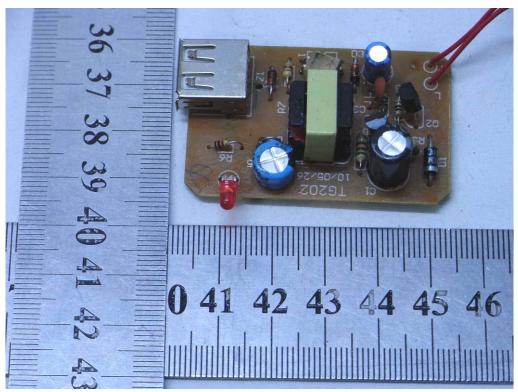
INTERNAL PHOTO OF SAMPLE -2



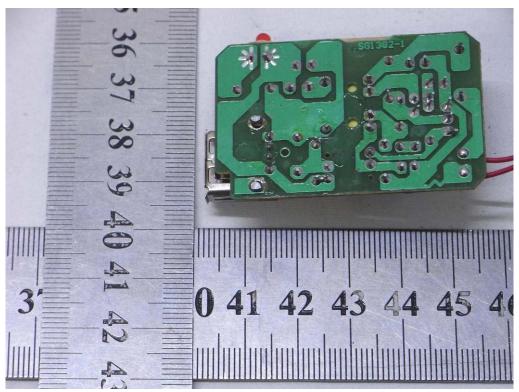
INTERNAL PHOTO OF SAMPLE -3



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



-----END OF REPORT-----