

Test Report

Product Name : CDMA 1X Digital Mobile Phone
Model No. : HUAWEI C6111
FCC ID : QISC6111

Applicant : HUAWEI TECHNOLOGIES CO., LTD
Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129

Date of Receipt : 30/07/2011
Test Date : 30/07/2011~31/07/2011
Issued Date : 01/08/2011
Report No. : 117S094R-HP-US-P01V02
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date: 01/08/2011

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Applicant : HUAWEI TECHNOLOGIES CO., LTD
Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129
Manufacturer : HUAWEI TECHNOLOGIES CO., LTD
Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129
Model No. : HUAWEI C6111
EUT Voltage : DC 3.7V
Brand Name : HUAWEI
Applicable Standard : FCC Part 15 Subpart B: 2008 Class B
ANSI C63.4: 2009
Test Result : Complied
Performed Location : Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park Loufeng
Hi-Tech Development Zone., Suzhou, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

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Reviewed By : Robin Wu
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(Engineering Supervisor: Marlin Chen)

Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	: BSMI, NCC, TAF
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



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 TEL : +86-512-6251-5088 / FAX : +86-512-6251-5098 E-Mail : service@quietek.com



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1. General Information

1.1. EUT Description

Product Name	CDMA 1X Digital Mobile Phone
Model No.	HUAWEI C6111
Device Category	Portable
CDMA	
Support Band	CDMA2000 1X BC0
Uplink	824~849MHz
Downlink	869~894MHz
Antenna Type	Internal
Type of Modulation	QPSK
Peak Antenna Gain	-2dBi
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V2.1 + EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	-2dBi
Components	
Headset Model Number	MEMD1532A772H00
Battery	Brand Name: HUAWEI M/N: HB5I1 Rated Voltage and Capacitance: 3.7V/1100mAh
Adapter	Manufacturer: HUAWEI M/N: HS-050040U6 Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 400mA

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

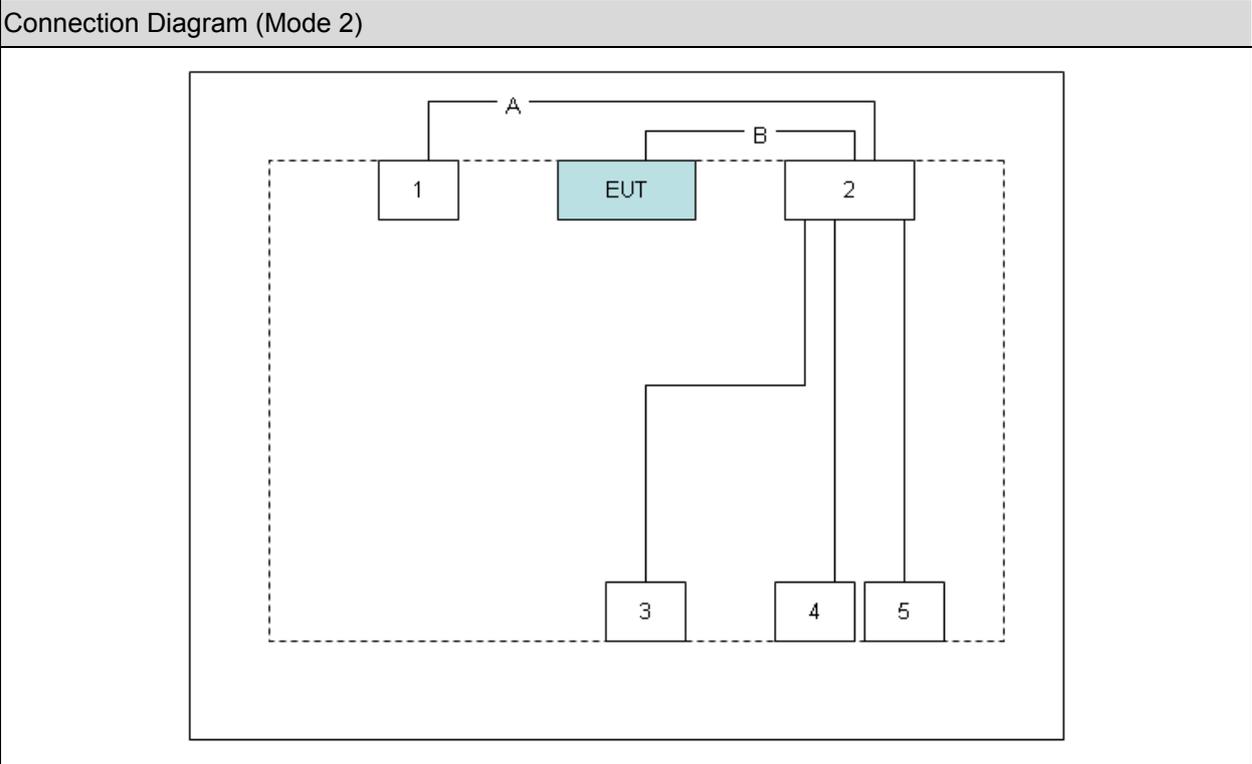
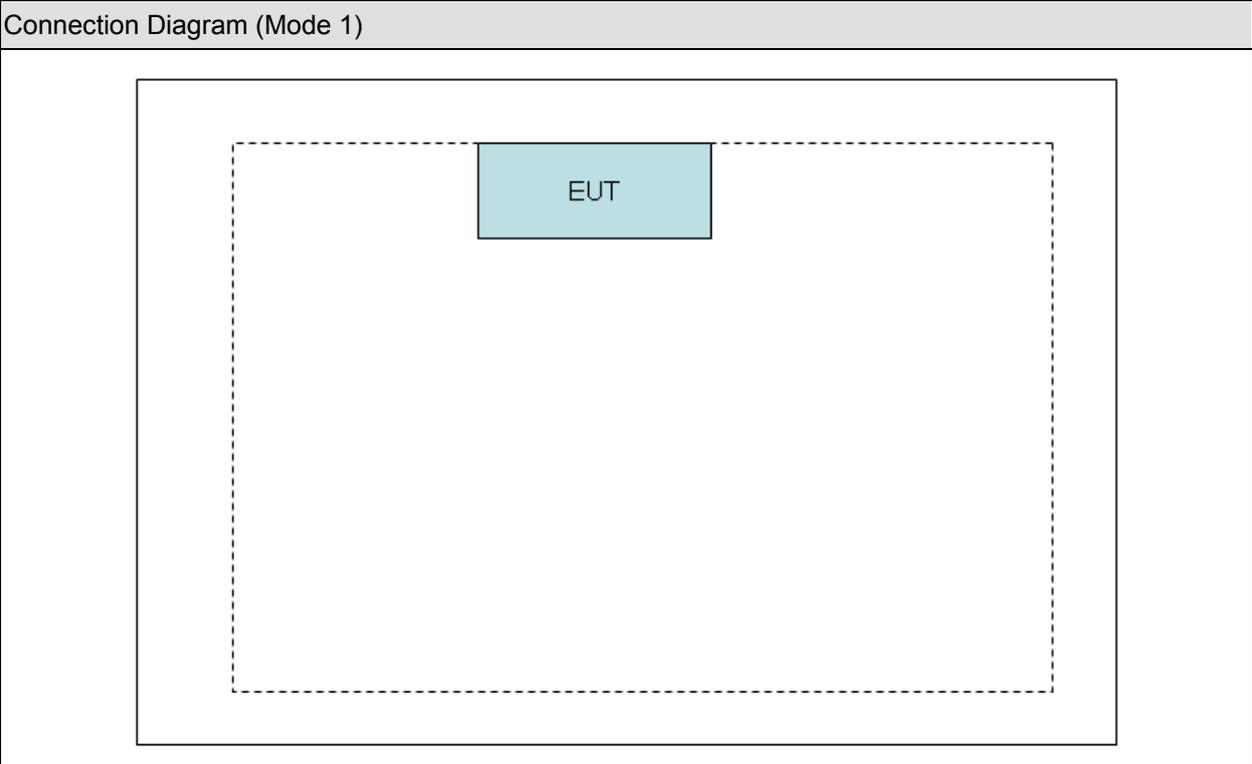
Pre Test Mode
Mode 1: Charging + Camera On
Mode 2: USB Copy
Mode 3: FM

1.3. Tested System Details

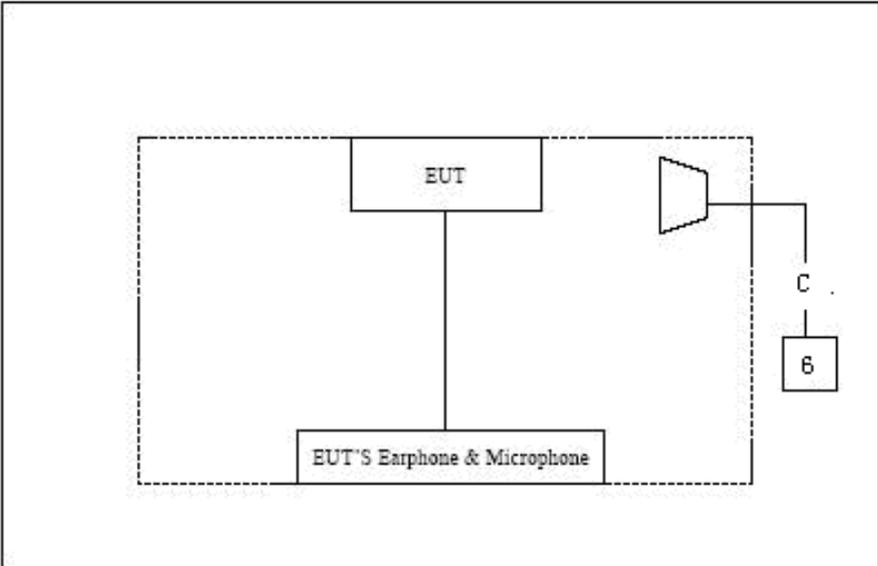
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 LCD Monitor	DELL	3008WFP	26606581093	Non-Shielded, 1.8m
2 PC	DELL	DCMF	11DMF2X	Non-Shielded, 1.8m
3 iPod	Apple	A1199	7J71085BVQ5	Power by PC
4 Microphone& Earphone	SOMIC	V85	N/A	Power by PC
5 USB Mouse	DELL	MOC5UO	10D00JJL	Power by PC
6 Signal Generator	Agilent	E4438C	MY49070163	N/A

1.4. Configuration of Tested System



Connection Diagram (Mode 3)



Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.5m
B	USB Cable	Shielded, 1.2m
C	Coaxial Cable	Shielded, >5m

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	(1) Make the EUT work under the "Charging+Camera on" Mode. (2) Open the software "WINTHRAX", and then transmit data with notebook. (3) Making EUT work under the "FM" Mode.
4	Start Test.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2008 Class B ANSI C63.4: 2009	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2008 Class B ANSI C63.4: 2009	Yes	No

2.2. List of Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2012/01/15
Two-Line V-Network	R&S	ENV216	100043	2012/04/29
Two-Line V-Network	R&S	ENV216	100044	2011/09/07
Balanced Telecom ISN	Fischer	FCC-TLISN-T2-02	20352	2012/01/15
Balanced Telecom ISN	Fischer	FCC-TLISN-T4-02	20353	2012/01/15
Balanced Telecom ISN	Fischer	FCC-TLISN-T8-02	20354	2012/01/15
Current Probe	R&S	EZ-17	100255	2012/04/18
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2012/05/05
50ohm Termination	SHX	TF2	07081401	2011/09/27
50ohm Termination	SHX	TF2	07081402	2011/09/27
50ohm Termination	SHX	TF2	07081403	2011/09/15
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2012/01/14

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2012/04/23
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2011/10/18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2012/05/05
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2012/01/14

Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2012/04/23
Preamplifier	Quietek	AP-180C	CHM-0602013	2012/05/05
Preamplifier	Quietek	AP-040G	CHM-0906001	2012/05/05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2011/10/18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012/06/11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2012/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2012/03/03
Lowpass Filter	Wainwright	WLKS4500-9SS	SN2	2012/03/03

2.3. Measurement Uncertainty

Conducted Emission
The maximum measurement uncertainty is evaluated as $\pm 2.26\text{dB}$.
Radiated Emission
The maximum measurement uncertainty is evaluated as $\pm 3.19\text{dB}$.

2.4. Test Environment

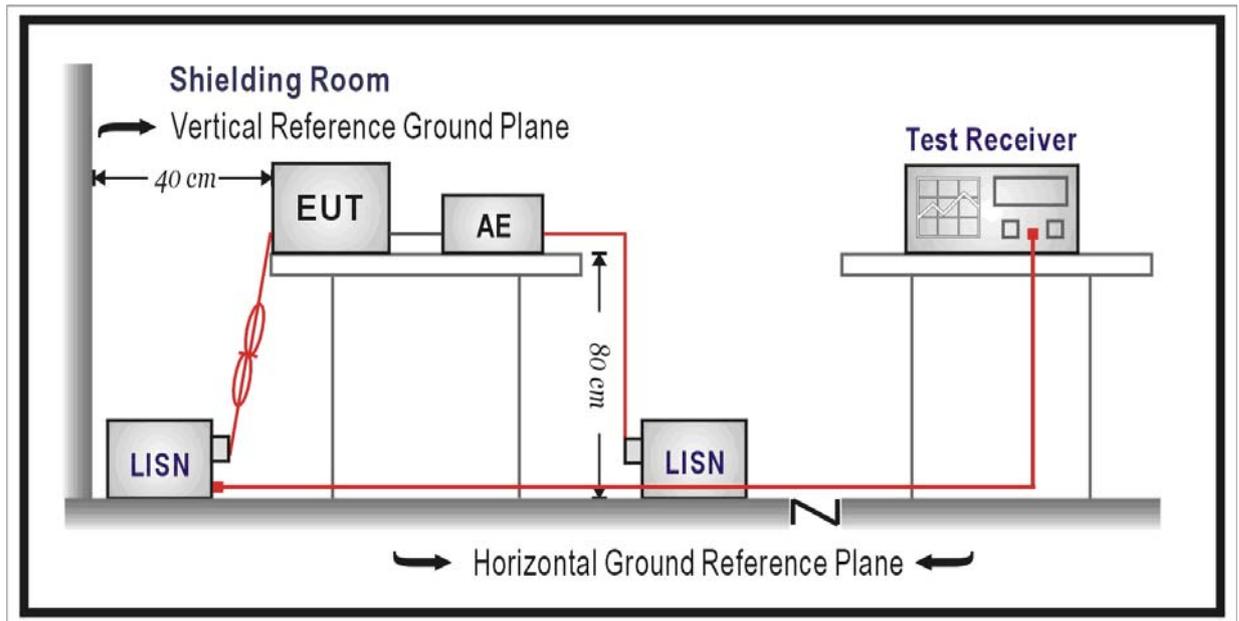
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

3.1. Test Specification

According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4

3.2. Test Setup



3.3. Limit

Limits for Conducted Emission of Class B ITE		
Frequency range MHz	Limits dB(μV)	
	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: Decreases with the logarithm of the frequency.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω / 50μH coupling impedance for the

measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω / $50\mu\text{H}$ coupling impedance with 50Ω termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

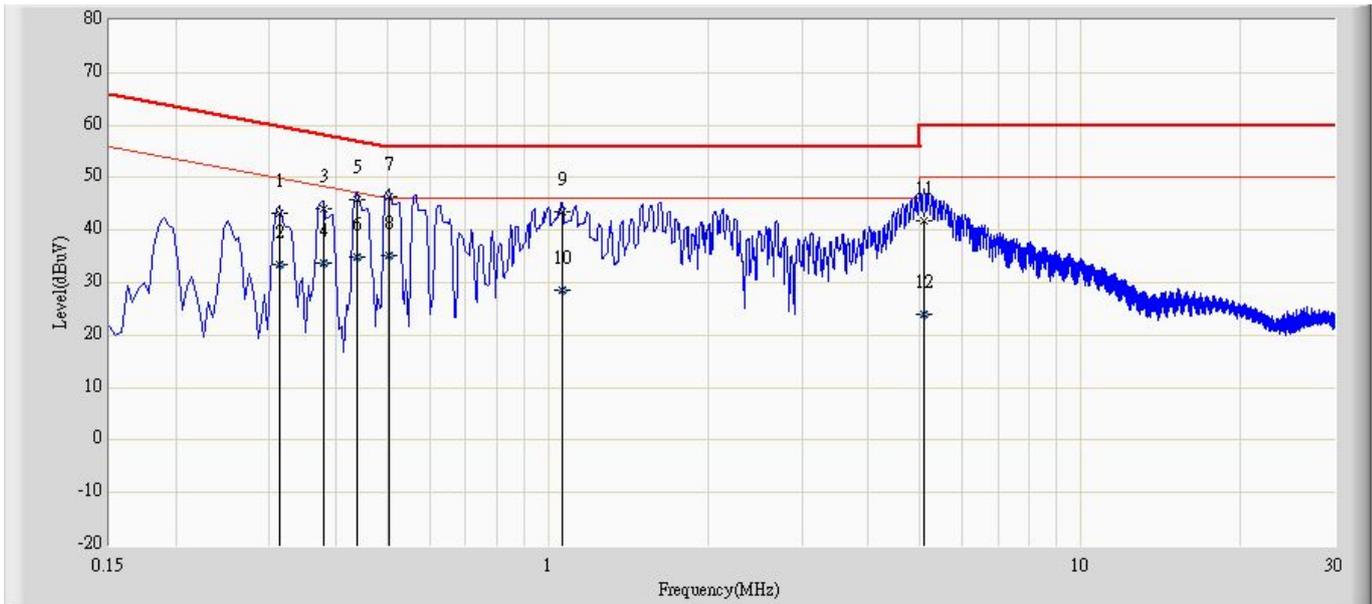
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

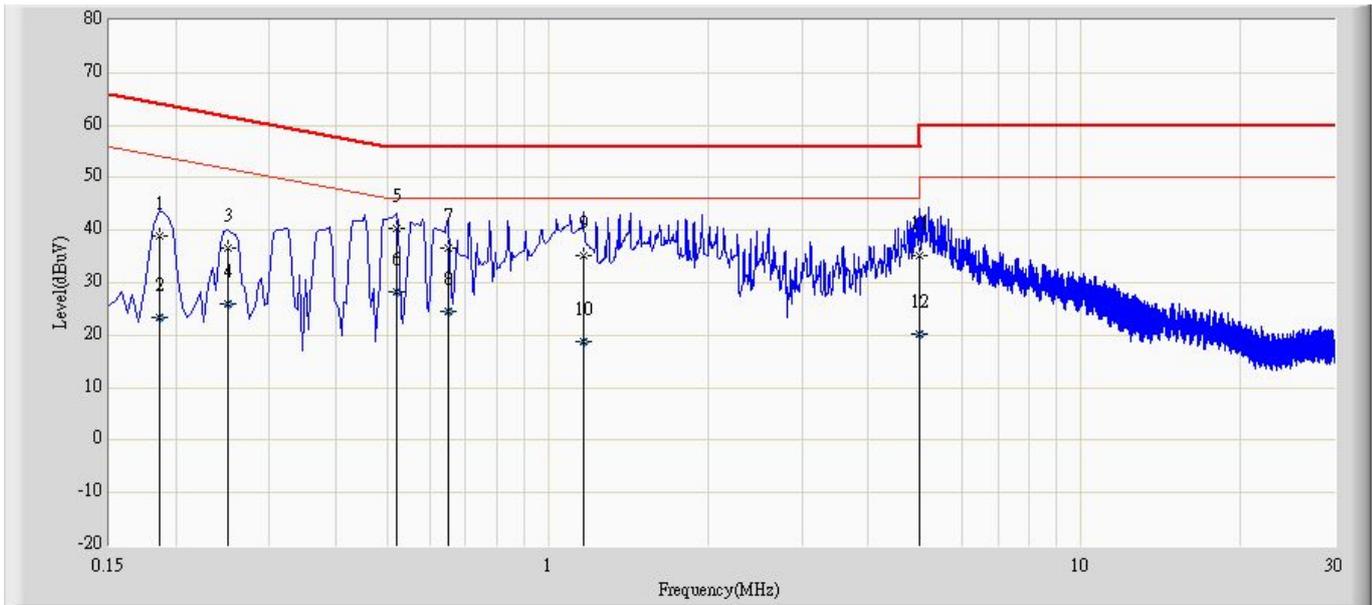
3.6. Test Result

Engineer: Jack	
Site: TR1	Time: 2011/07/30 - 19:10
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging +Camera On	



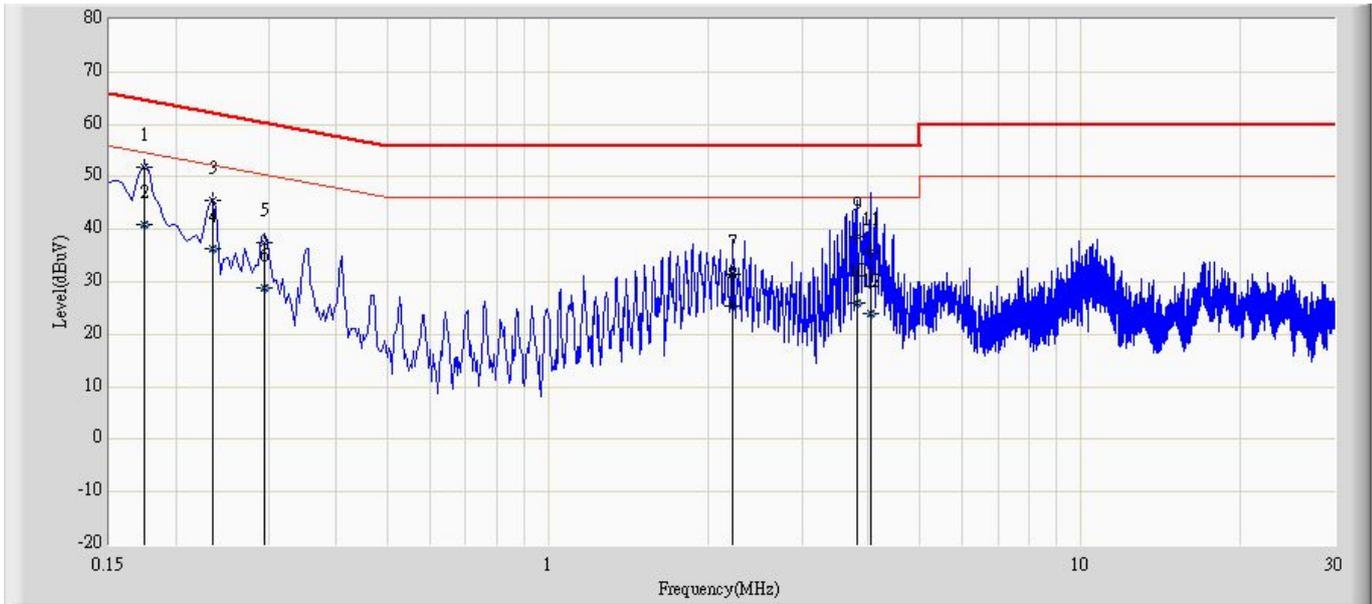
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.314	43.293	33.636	-16.571	59.864	9.658	QP
2		0.314	33.437	23.779	-16.427	49.864	9.658	AV
3		0.378	44.153	34.491	-14.170	58.323	9.662	QP
4		0.378	33.655	23.994	-14.668	48.323	9.662	AV
5		0.438	45.707	36.032	-11.392	57.100	9.676	QP
6		0.438	34.791	25.115	-12.309	47.100	9.676	AV
7	*	0.502	46.305	36.625	-9.695	56.000	9.680	QP
8		0.502	35.299	25.619	-10.701	46.000	9.680	AV
9		1.066	43.514	33.814	-12.486	56.000	9.700	QP
10		1.066	28.661	18.961	-17.339	46.000	9.700	AV
11		5.082	41.761	31.930	-18.239	60.000	9.831	QP
12		5.082	24.080	14.249	-25.920	50.000	9.831	AV

Engineer: Jack	
Site: TR1	Time: 2011/07/30 - 18:58
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging +Camera On	



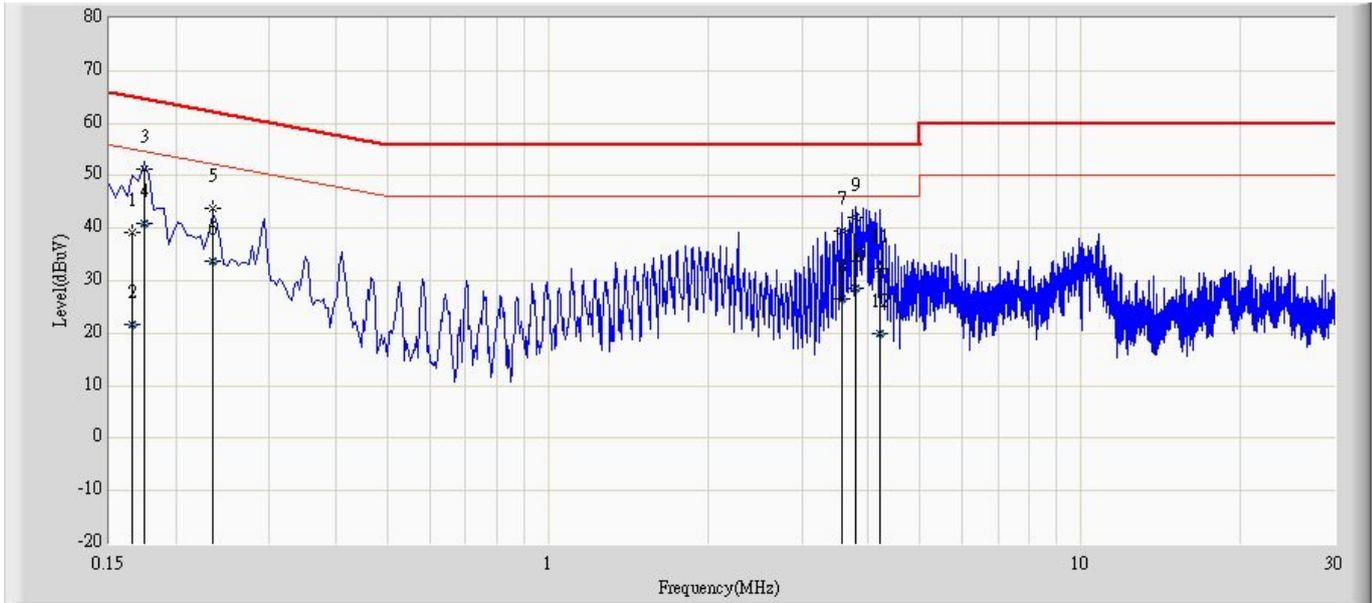
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.186	38.772	29.111	-25.441	64.213	9.661	QP
2		0.186	23.286	13.625	-30.927	54.213	9.661	AV
3		0.250	36.514	26.861	-25.243	61.757	9.653	QP
4		0.250	25.963	16.310	-25.794	51.757	9.653	AV
5	*	0.518	40.256	30.575	-15.744	56.000	9.681	QP
6		0.518	28.328	18.647	-17.672	46.000	9.681	AV
7		0.650	36.665	26.978	-19.335	56.000	9.687	QP
8		0.650	24.471	14.784	-21.529	46.000	9.687	AV
9		1.166	35.251	25.551	-20.749	56.000	9.700	QP
10		1.166	18.696	8.996	-27.304	46.000	9.700	AV
11		4.998	35.313	25.483	-20.687	56.000	9.830	QP
12		4.998	20.270	10.440	-25.730	46.000	9.830	AV

Engineer: Jack	
Site: TR1	Time: 2011/07/30 - 18:50
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.174	51.842	42.171	-12.925	64.767	9.671	QP
2		0.174	41.014	31.343	-13.753	54.767	9.671	AV
3		0.234	45.507	35.854	-16.800	62.307	9.652	QP
4		0.234	36.326	26.674	-15.980	52.307	9.652	AV
5		0.294	37.330	27.673	-23.081	60.411	9.656	QP
6		0.294	28.791	19.135	-21.620	50.411	9.656	AV
7		2.222	31.488	21.764	-24.512	56.000	9.724	QP
8		2.222	25.471	15.747	-20.529	46.000	9.724	AV
9		3.798	38.633	28.844	-17.367	56.000	9.790	QP
10		3.798	26.064	16.274	-19.936	46.000	9.790	AV
11		4.034	35.817	26.023	-20.183	56.000	9.794	QP
12		4.034	23.888	14.094	-22.112	46.000	9.794	AV

Engineer: Jack	
Site: TR1	Time: 2011/07/30 - 18:54
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.166	39.184	29.563	-25.974	65.158	9.622	QP
2		0.166	21.615	11.994	-33.543	55.158	9.622	AV
3	*	0.174	51.234	41.592	-13.533	64.767	9.642	QP
4		0.174	41.016	31.374	-13.751	54.767	9.642	AV
5		0.234	43.821	34.113	-18.486	62.307	9.708	QP
6		0.234	33.706	23.998	-18.601	52.307	9.708	AV
7		3.558	39.604	29.824	-16.396	56.000	9.781	QP
8		3.558	26.680	16.900	-19.320	46.000	9.781	AV
9		3.794	41.938	32.144	-14.062	56.000	9.794	QP
10		3.794	28.538	18.744	-17.462	46.000	9.794	AV
11		4.210	32.315	22.516	-23.685	56.000	9.799	QP
12		4.210	20.010	10.210	-25.990	46.000	9.799	AV

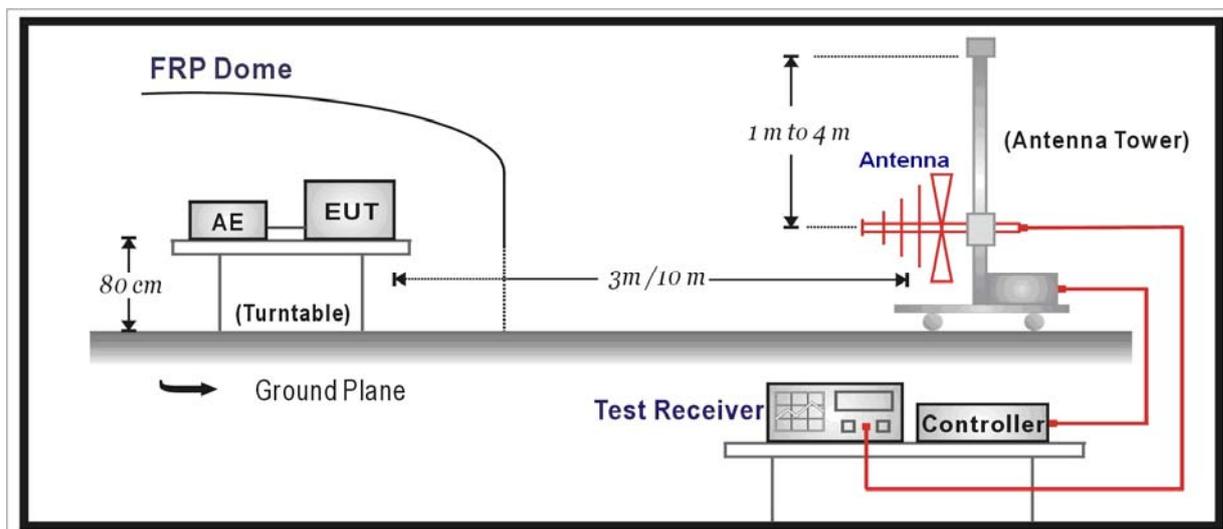
4. Radiated Emission

4.1. Test Specification

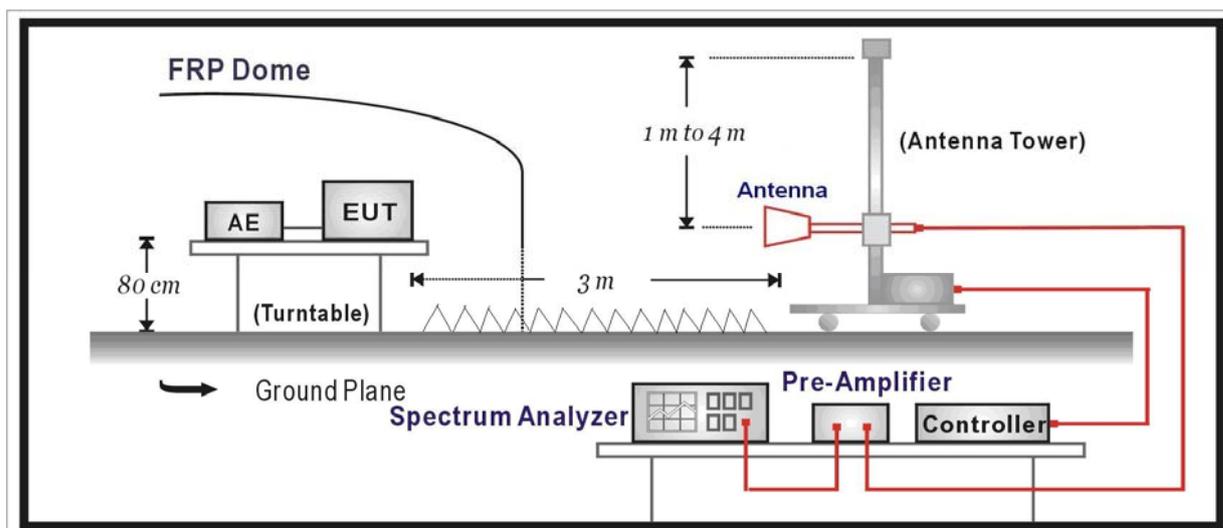
According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4

4.2. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart B Paragraph 15.109		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000

500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

For class A, the measurement distance between the EUT and antenna is 3 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 3 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

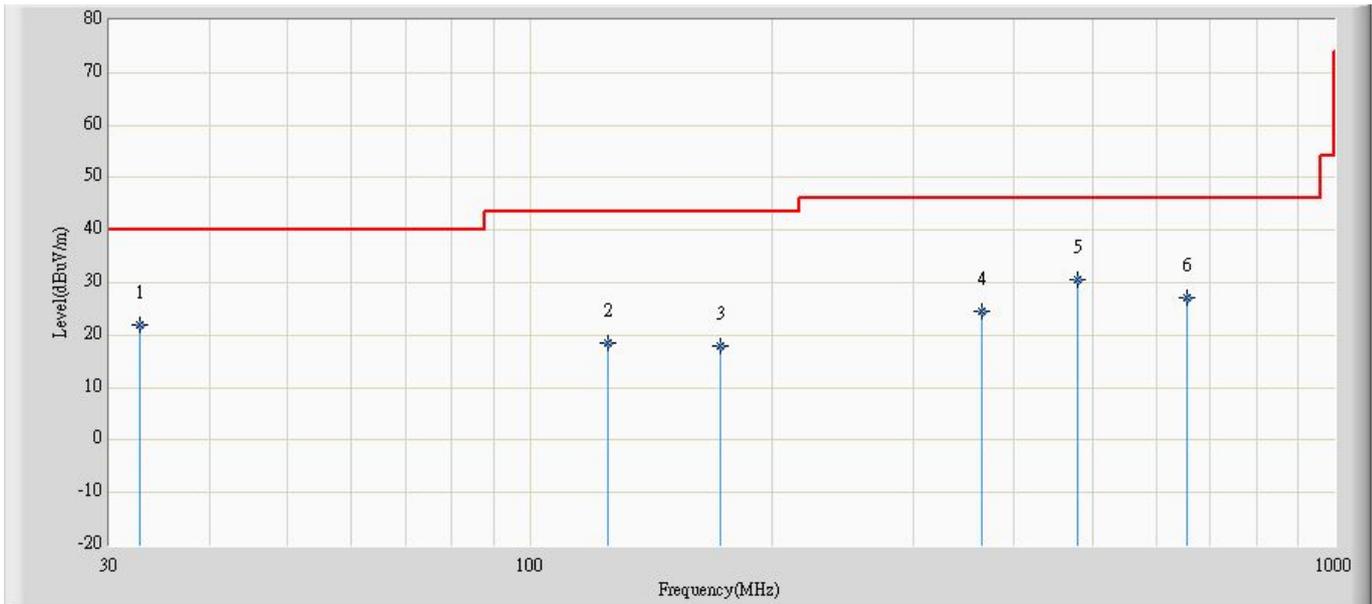
Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT.

4.5. Deviation from Test Standard

No deviation.

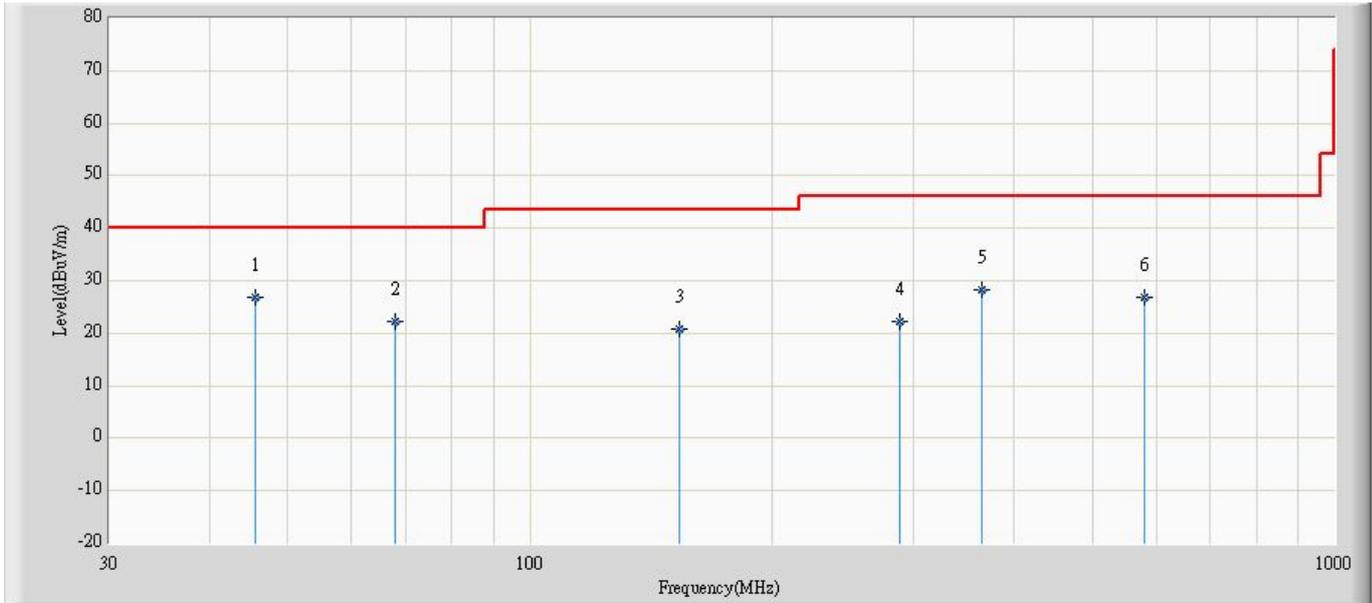
4.6. Test Result

Engineer: Jack	
Site: AC2	Time: 2011/07/30 - 17:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On	



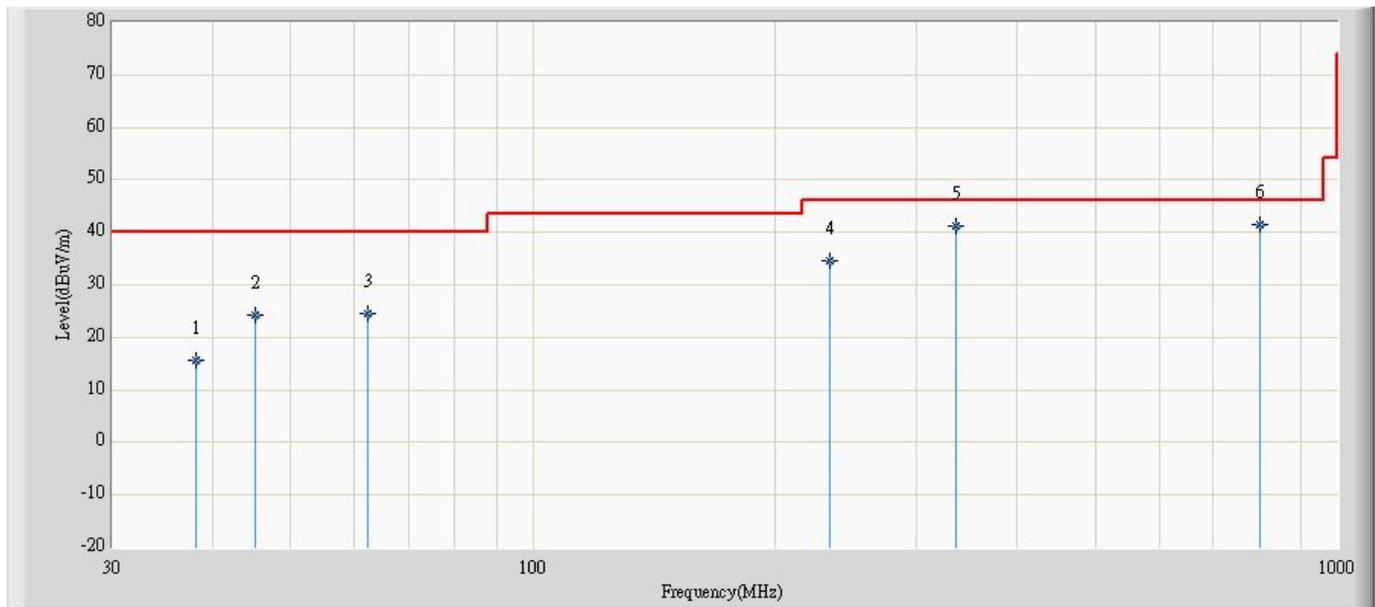
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			32.789	22.041	5.415	-17.959	40.000	16.626	QP
2			125.060	18.387	5.637	-25.113	43.500	12.750	QP
3			172.711	17.890	7.770	-25.610	43.500	10.120	QP
4			364.771	24.435	7.954	-21.565	46.000	16.481	QP
5		*	480.080	30.480	11.250	-15.520	46.000	19.230	QP
6			654.680	27.095	5.675	-18.905	46.000	21.420	QP

Engineer: Jack	
Site: AC2	Time: 2011/07/30 - 17:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On	



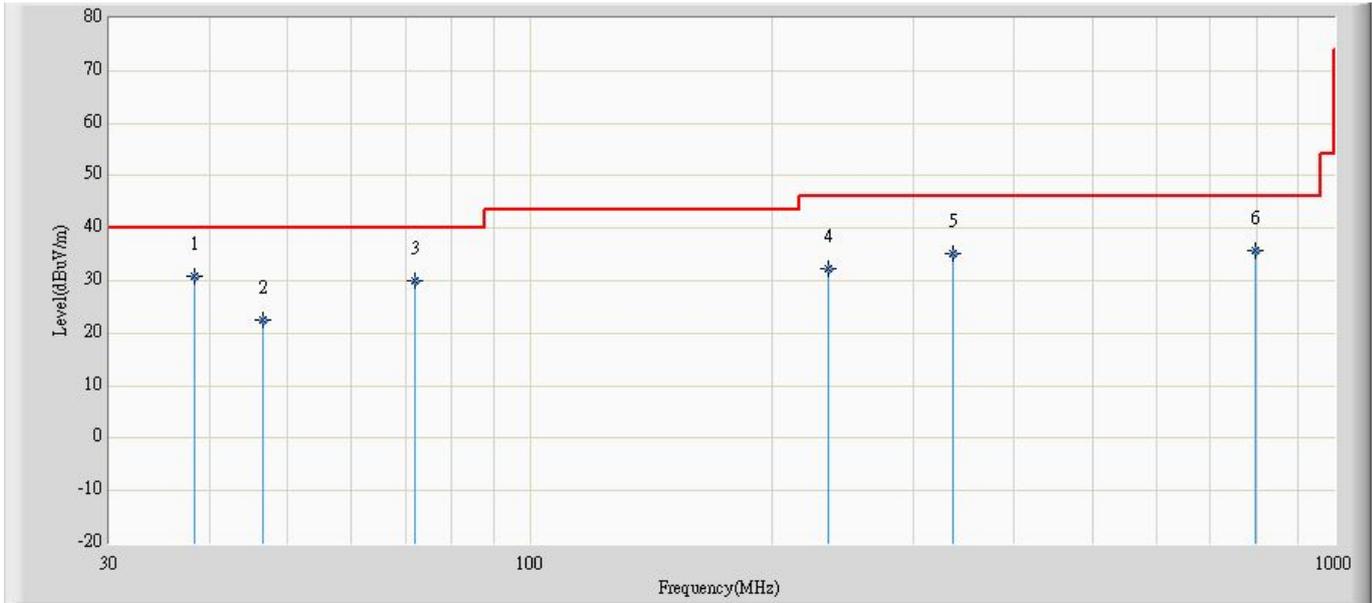
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	45.520	26.873	16.903	-13.127	40.000	9.970	QP
2			67.830	22.130	16.300	-17.870	40.000	5.830	QP
3			153.554	20.889	10.132	-22.611	43.500	10.757	QP
4			287.899	22.227	8.088	-23.773	46.000	14.139	QP
5			364.771	28.373	11.892	-17.627	46.000	16.481	QP
6			579.869	26.822	6.053	-19.178	46.000	20.769	QP

Engineer: Jack	
Site: AC2	Time: 2011/07/30 - 17:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



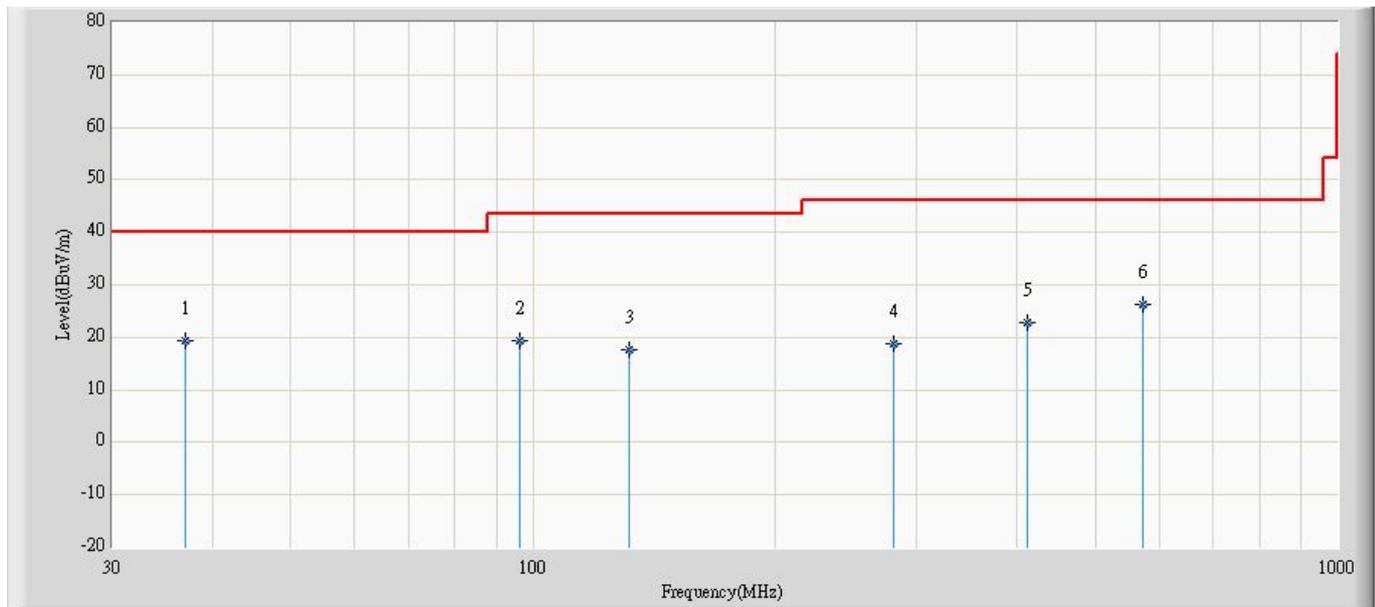
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			38.168	15.584	1.883	-24.416	40.000	13.701	QP
2			45.102	24.320	14.165	-15.680	40.000	10.155	QP
3			62.379	24.405	18.443	-15.595	40.000	5.962	QP
4			233.977	34.617	23.084	-11.383	46.000	11.533	QP
5			336.045	41.235	25.594	-4.765	46.000	15.640	QP
6		*	800.716	41.601	19.044	-4.399	46.000	22.557	QP

Engineer: Jack	
Site: AC2	Time: 2011/07/30 - 17:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



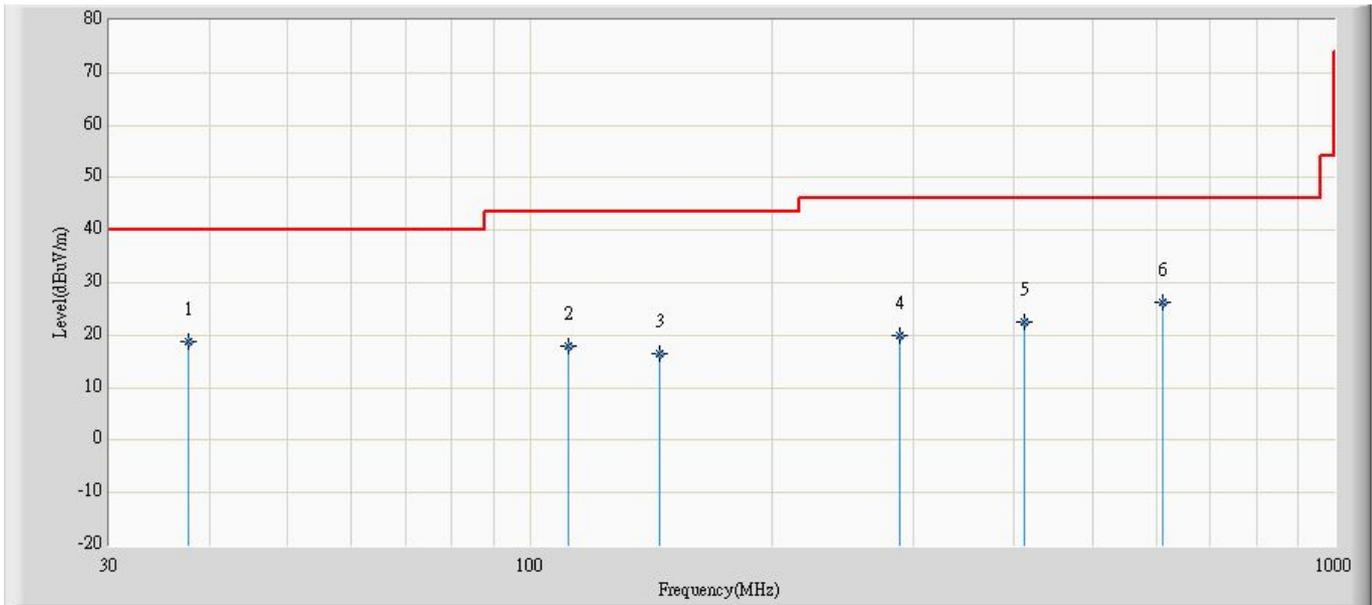
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	38.279	30.728	17.087	-9.272	40.000	13.641	QP
2			46.478	22.669	13.094	-17.331	40.000	9.575	QP
3			71.825	30.042	23.907	-9.958	40.000	6.135	QP
4			234.529	32.352	20.734	-13.648	46.000	11.618	QP
5			335.995	35.092	19.453	-10.908	46.000	15.639	QP
6			798.237	35.606	13.086	-10.394	46.000	22.520	QP

Engineer: Jack	
Site: AC2	Time: 2011/07/30 - 17:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 3: FM	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			37.033	19.353	5.028	-20.647	40.000	14.325	QP
2			96.445	19.272	8.427	-24.228	43.500	10.845	QP
3			131.729	17.664	5.155	-25.836	43.500	12.509	QP
4			280.503	18.775	4.692	-27.225	46.000	14.083	QP
5			411.816	22.735	4.453	-23.265	46.000	18.282	QP
6		*	572.715	26.309	5.644	-19.691	46.000	20.665	QP

Engineer: Jack	
Site: AC2	Time: 2011/07/30 - 17:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: GSM Mobile Phone	Power: AC 120V/60Hz
Note: Mode 3: FM	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			37.639	18.700	4.713	-21.300	40.000	13.987	QP
2			111.844	17.960	5.364	-25.540	43.500	12.596	QP
3			145.066	16.396	5.102	-27.104	43.500	11.294	QP
4			288.384	19.997	5.853	-26.003	46.000	14.144	QP
5			411.089	22.632	4.364	-23.368	46.000	18.268	QP
6		*	611.636	26.124	5.028	-19.876	46.000	21.096	QP