

# Test Report

## FCC Part15 Subpart B

Product Name : Wireless Device

Model No. : VIGIL

Applicant : Capricorn Electronics Ltd

Address : Suite 1012,10/F1.,Metro Centre I,32 Lam Hing Street,  
: Kowloon Bay

Date of Receipt : 14/04/2011

Test Date : 15/04/2011 ~ 18/04/2011

Issued Date : 18/04/2011

Report No. : 114S039R- HP-US-P01V02

Report Version : V 1.2

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: 18/04/2011

Report No.: 114S039R-HP-US-P01V02



Product Name : Wireless Device  
Applicant : Capricorn Electronics Ltd  
Address : Suite 1012,10/F1.,Metro Centre I,32 Lam Hing Street,  
Kowloon Bay  
Manufacturer : Capricorn Electronics Ltd  
Address : Suite 1012,10/F1.,Metro Centre I,32 Lam Hing Street,  
Kowloon Bay  
Model No. : VIGIL  
EUT Voltage : Batt-Operated by3.7V DC and Charging by 12V DC  
Brand Name : VIGIL  
Applicable Standard : FCC Part 15 Subpart B: 2008 Class B  
ANSI C63.4: 2009  
Test Result : Complied  
Performed Location : Suzhou EMC Laboratory  
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TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

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## 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:

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

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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## 1. General Information

### 1.1. EUT Description

Product Name	Wireless Device
Trade Name	VIGIL
Model No.	VIGIL
Working Voltage	Batt-Operated by3.7V DC and Charging by 12V DC

**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:

Test Mode
Mode 1: GPRS 850 Idle
Mode 2: GPS Link

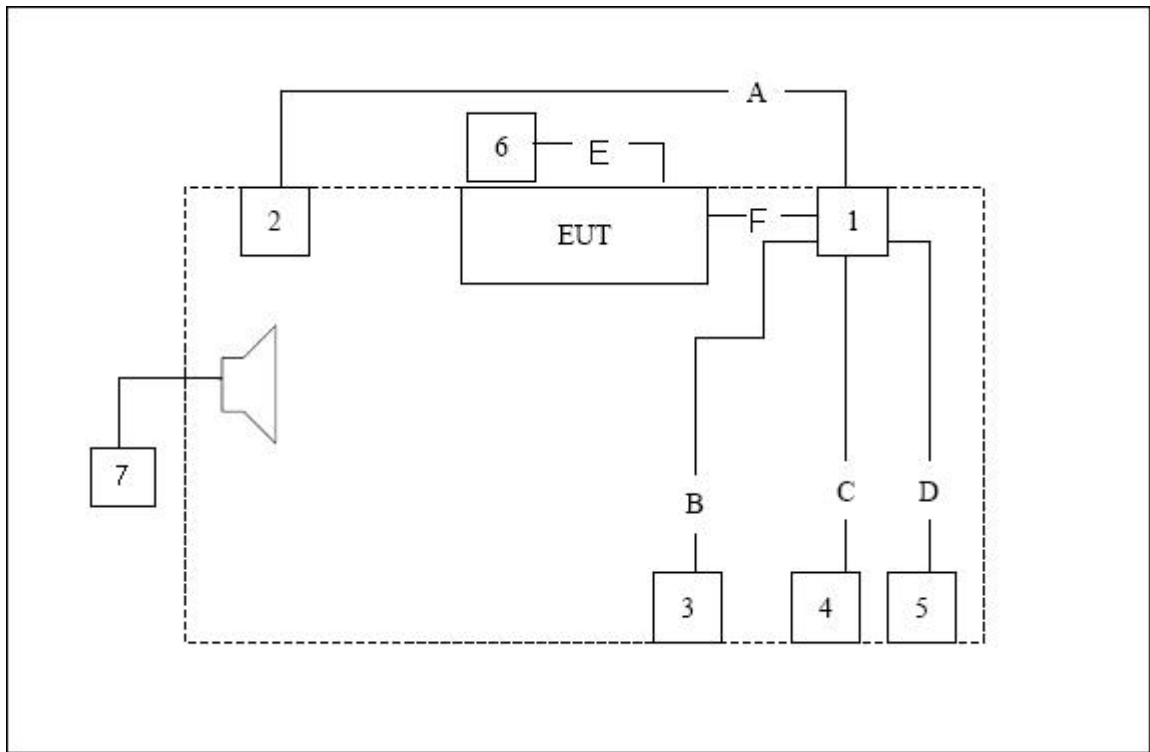
### 1.3. Tested System Details

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

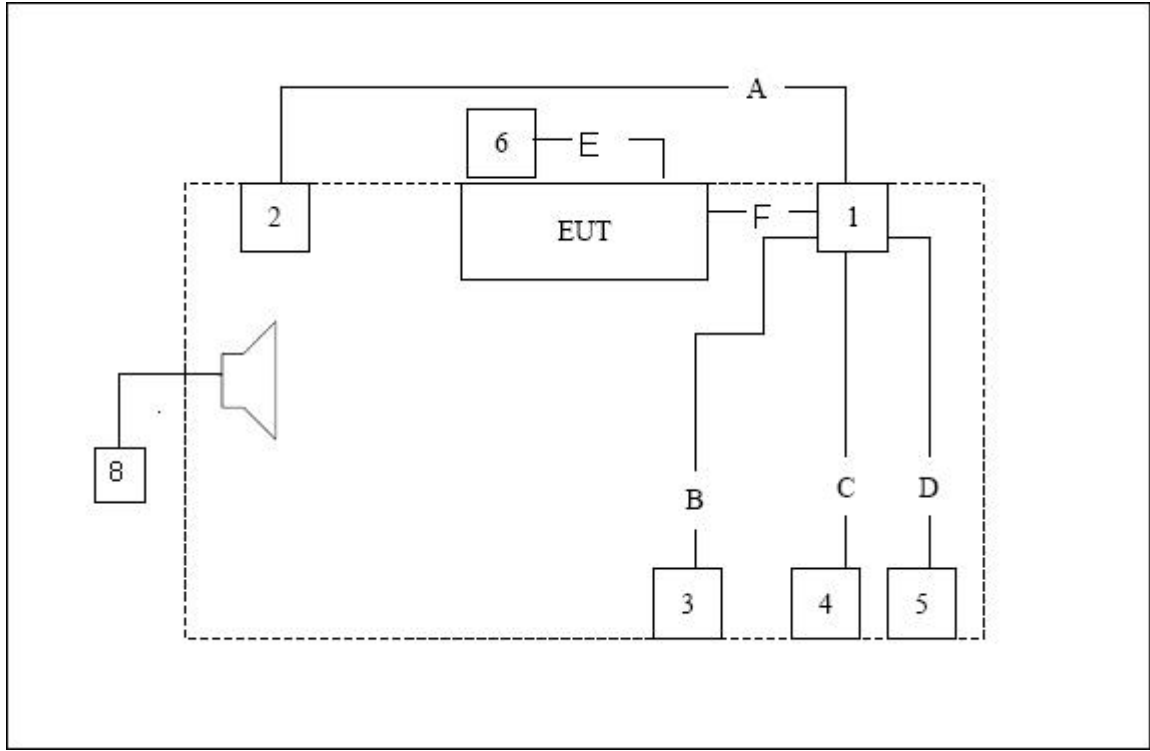
Product	Manufacturer	Model No.	Serial No.	Power Cord
1   Notebook	Tink Pad	R400	N/A	Power by adapter
2   LCD Monitor	DELL	3008WFP	26606581093	Non-Shielded, 1.8m
3   Microphone & Earphone	SOMIC	V85	N/A	Power by PC
4   USB Mouse	DELL	M-UVDEL1	HCJ44503689	Power by PC
5   iPod	Apple	A1199	7J71085BVQ5	Power by PC
6   DC Supply	GWINSTEK	GPS-3030D	Ek855344	N/A
7   Radio Communication Tester	R&S	CMU200	117088	Non-Shielded, 1.8m
8   SG	Agilent	N/A	N/A	N/A

1.4. Configuration of Tested System

Connection Diagram (Mode 1)



Connection Diagram (Mode 2)



Signal Cable Type	Signal cable Description
A	VGA Cable Shielded, 1.5m



B	Microphone & Earphone Cable	Non-Shielded, 1.8m
C	USB Cable	Shielded, 1.5m
D	USB Cable	Shielded, 1.0m
E	Power Supply cable	Non-Shielded, > 2m
F	USB Cable	Shielded, 1.8m

**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Mode 1: EUT communicate with CMU200, and then start to test.
	Mode 2: Make EUT receive signals from SG continuously.

**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	N/A	N/A
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	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100906	2012/01/15
Two-Line V-Network	R&S	ENV216	100043	2011/06/18
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	2011/05/05
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.	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100573	2011/04/23
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2011/10/18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2011/05/05
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2012/01/14

### Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2011/04/23
Preamplifier	Quietek	AP-180C	CHM-0602013	2011/05/05
Preamplifier	Quietek	AP-040G	CHM-0906001	2011/05/05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2011/10/18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2011/06/11
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 measurement uncertainty is evaluated as  $\pm 2.26$  dB.

#### Radiated Emission

The measurement uncertainty is evaluated as  $\pm 3.19$  dB.

**2.4. Test Environment**

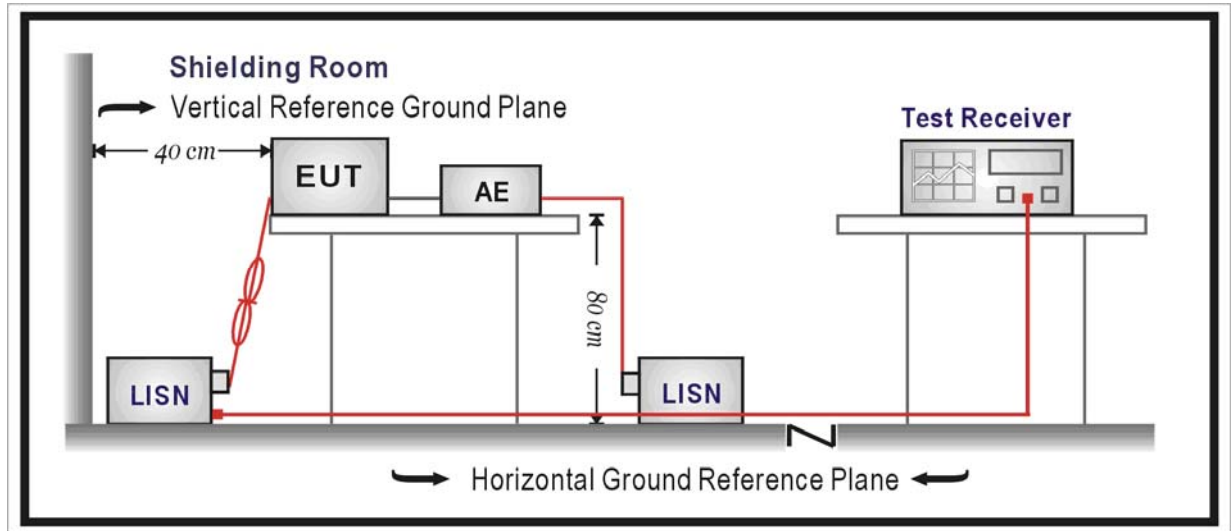
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	47
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	28
	Humidity (%RH)	25-75	46
	Barometric pressure (mbar)	860-1060	950-1000

### 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

FCC Part 15 Subpart B Paragraph 15.107 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

#### 3.4. Test Procedure

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the

EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

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

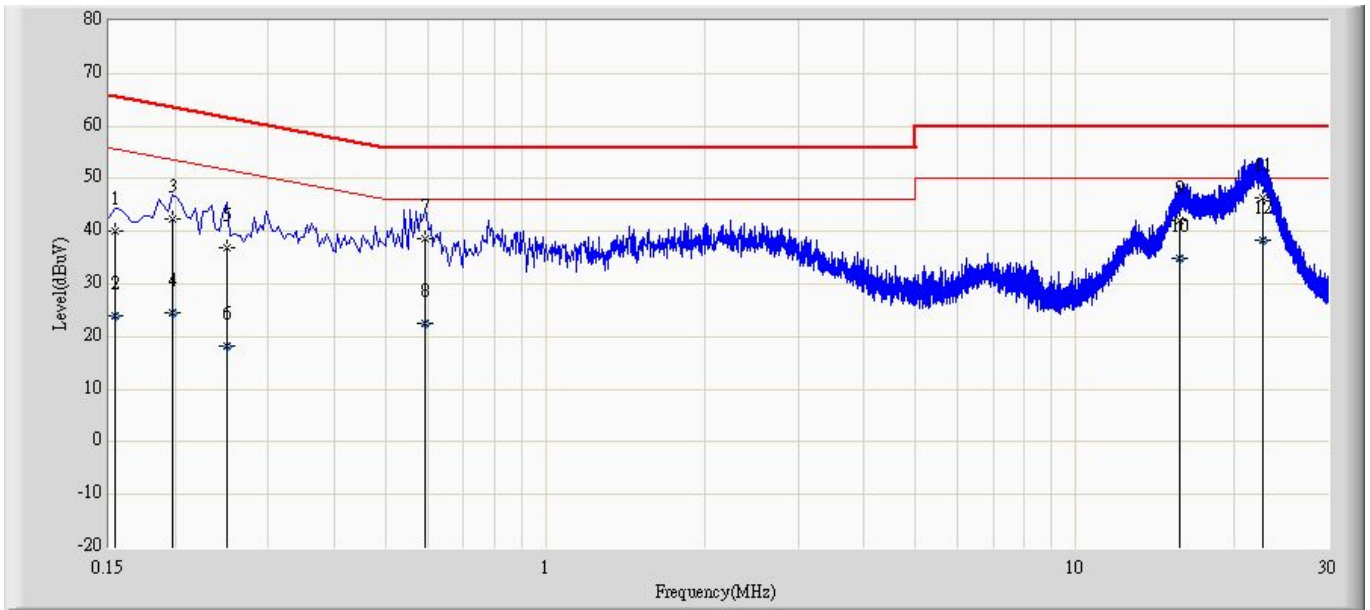
### **3.5. Deviation from Test Standard**

No deviation.



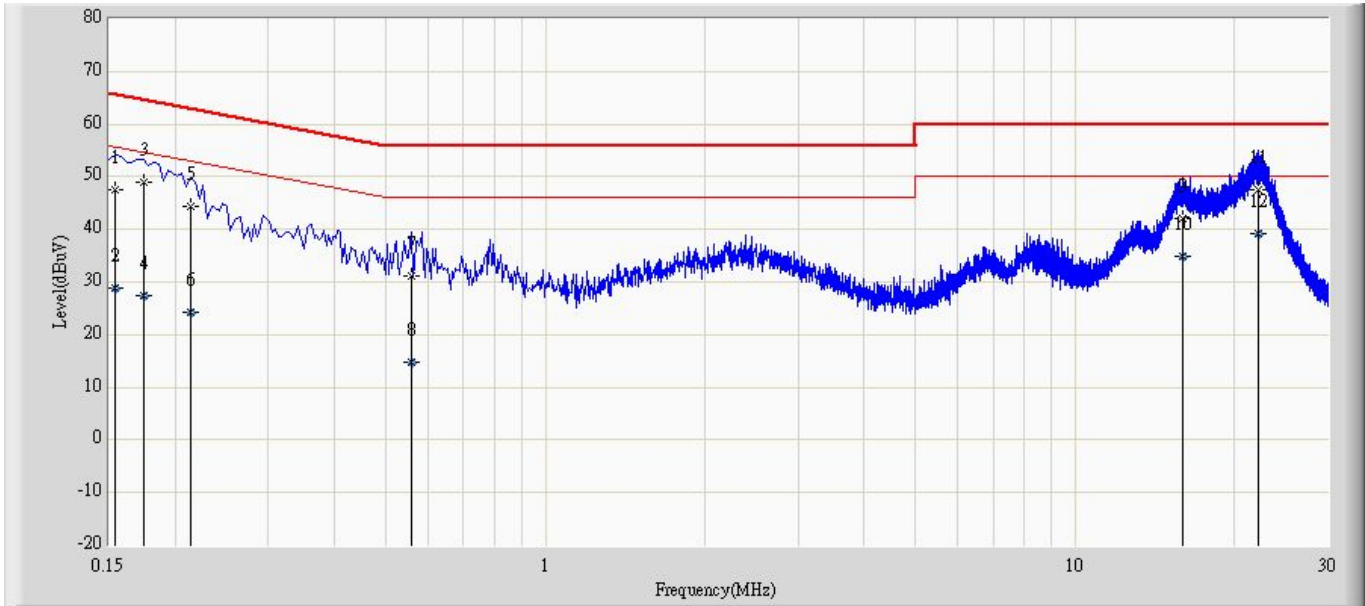
3.6. Test Result

Engineer: Sunny	
Site: TR1	Time: 2011/06/28 - 10:17
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Line
EUT: Wireless Device	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.154	39.990	30.405	-25.792	65.781	9.585	QP
2		0.154	24.084	14.499	-31.697	55.781	9.585	AV
3		0.198	42.259	32.597	-21.436	63.694	9.662	QP
4		0.198	24.431	14.770	-29.263	53.694	9.662	AV
5		0.250	36.860	27.180	-24.897	61.757	9.680	QP
6		0.250	18.100	8.420	-33.657	51.757	9.680	AV
7		0.594	38.656	28.966	-17.344	56.000	9.690	QP
8		0.594	22.439	12.749	-23.561	46.000	9.690	AV
9		15.750	42.093	31.941	-17.907	60.000	10.151	QP
10		15.750	34.860	24.709	-15.140	50.000	10.151	AV
11		22.630	46.441	36.107	-13.559	60.000	10.334	QP
12	*	22.630	38.285	27.950	-11.715	50.000	10.334	AV

Engineer: Sunny	
Site: TR1	Time: 2011/06/28 - 10:21
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Neutral
EUT: Wireless Device	Power: AC 120V/60Hz
Note: Mode 1	



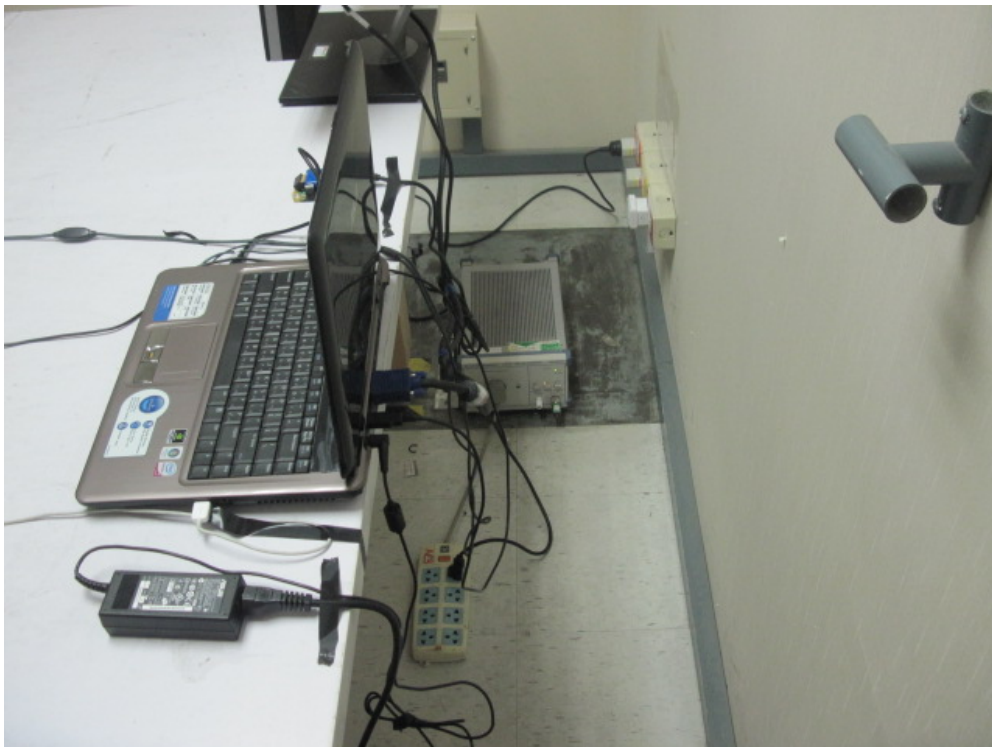
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.154	47.619	37.874	-18.175	65.793	9.744	QP
2		0.154	28.981	19.236	-26.813	55.793	9.744	AV
3		0.174	49.076	39.363	-15.691	64.767	9.712	QP
4		0.174	27.392	17.680	-27.375	54.767	9.712	AV
5		0.214	44.295	34.640	-18.753	63.049	9.655	QP
6		0.214	24.327	14.672	-28.721	53.049	9.655	AV
7		0.558	31.231	21.555	-24.769	56.000	9.676	QP
8		0.558	14.676	5.000	-31.324	46.000	9.676	AV
9		15.962	42.158	31.964	-17.842	60.000	10.194	QP
10		15.962	34.902	24.708	-15.098	50.000	10.194	AV
11		22.154	47.473	37.119	-12.527	60.000	10.354	QP
12	*	22.154	39.068	28.714	-10.932	50.000	10.354	AV

**3.7. Test Photograph**

Description: Front View of Conducted Emission Test Setup-Mode 1



Description: Back View of Conducted Emission Test Setup-Mode 1



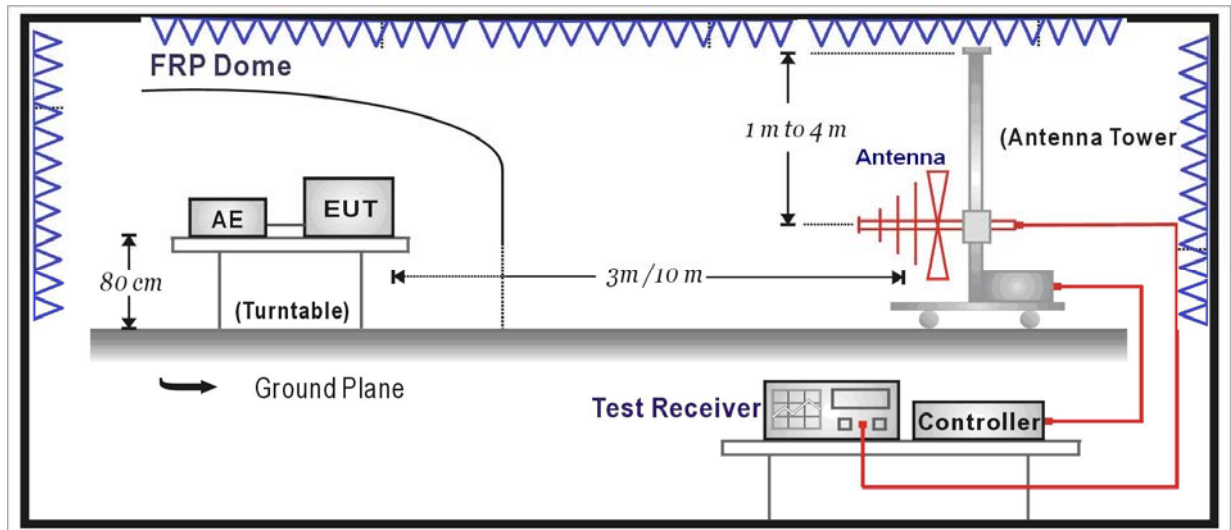
## 4. Radiated Emission

### 4.1. Test Specification

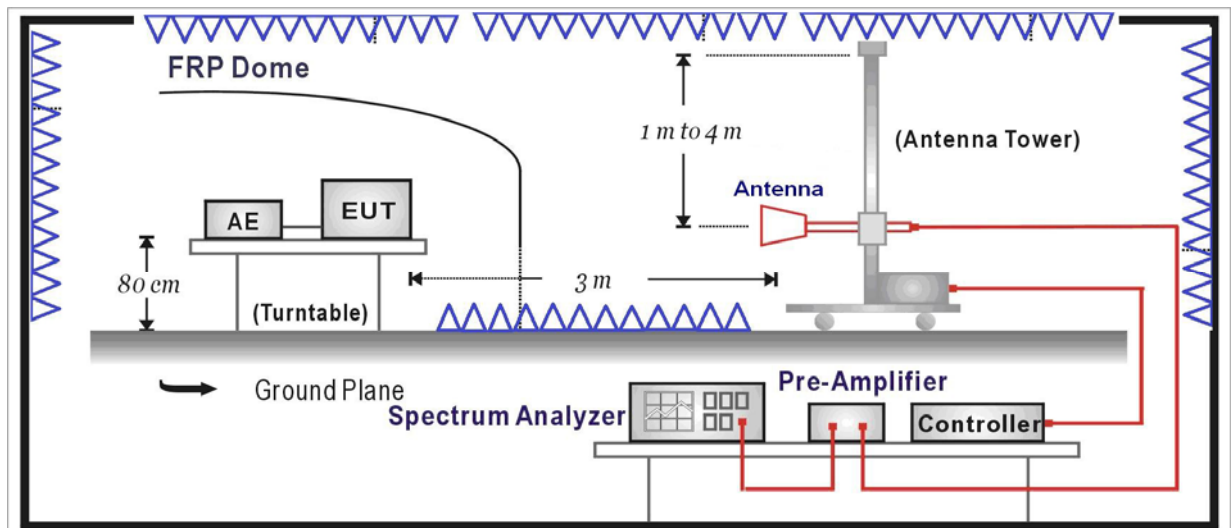
According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4

### 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.

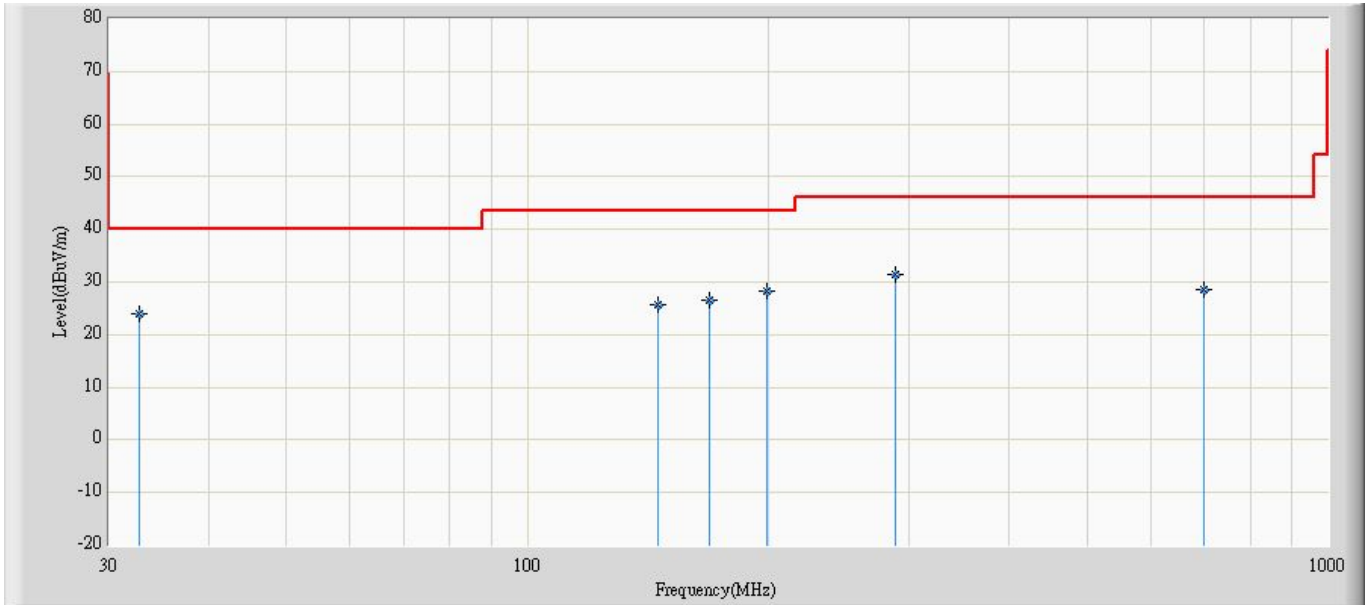
Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT.

**4.5. Deviation from Test Standard**

No deviation.

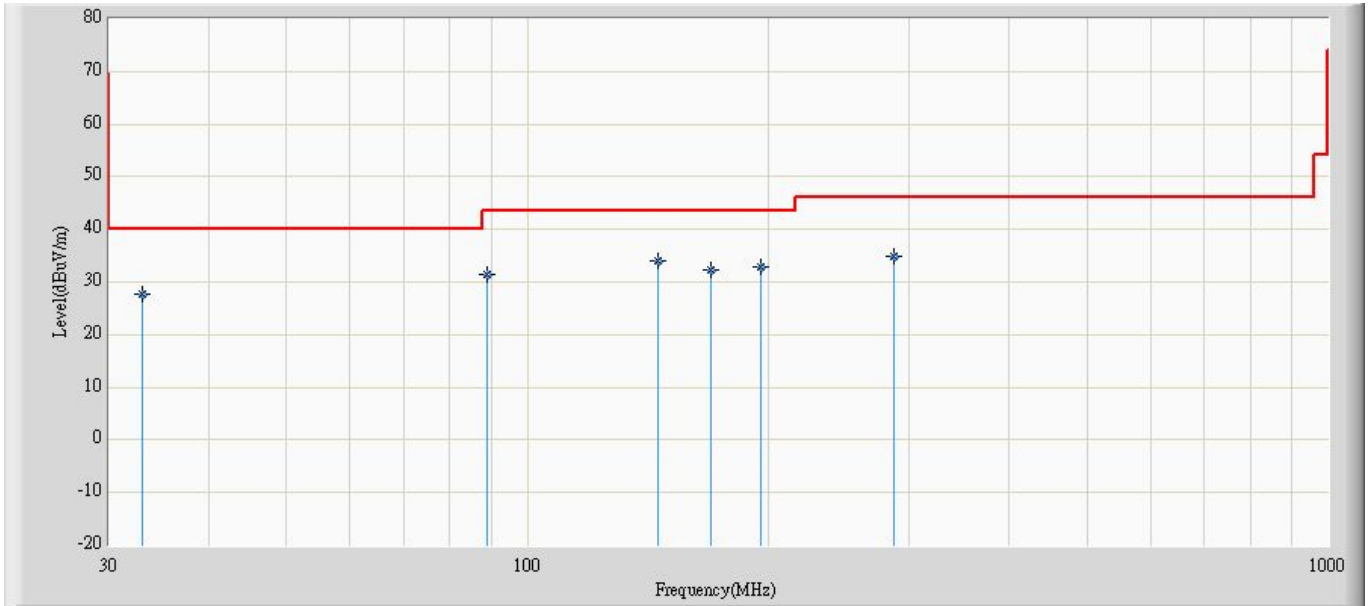
## 4.6. Test Result

Engineer: Sunny	
Site: AC2	Time: 2011/04/15 - 13:51
Limit: FCC_Part15.109_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Wireless Device	Power: DC 12V
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			32.667	24.074	7.381	-15.926	40.000	16.692	QP
2			145.673	25.780	14.535	-17.720	43.500	11.245	QP
3			168.952	26.457	16.104	-17.043	43.500	10.353	QP
4			199.023	28.171	17.956	-15.329	43.500	10.215	QP
5		*	288.141	31.436	17.295	-14.564	46.000	14.141	QP
6			700.876	28.636	6.866	-17.364	46.000	21.770	QP

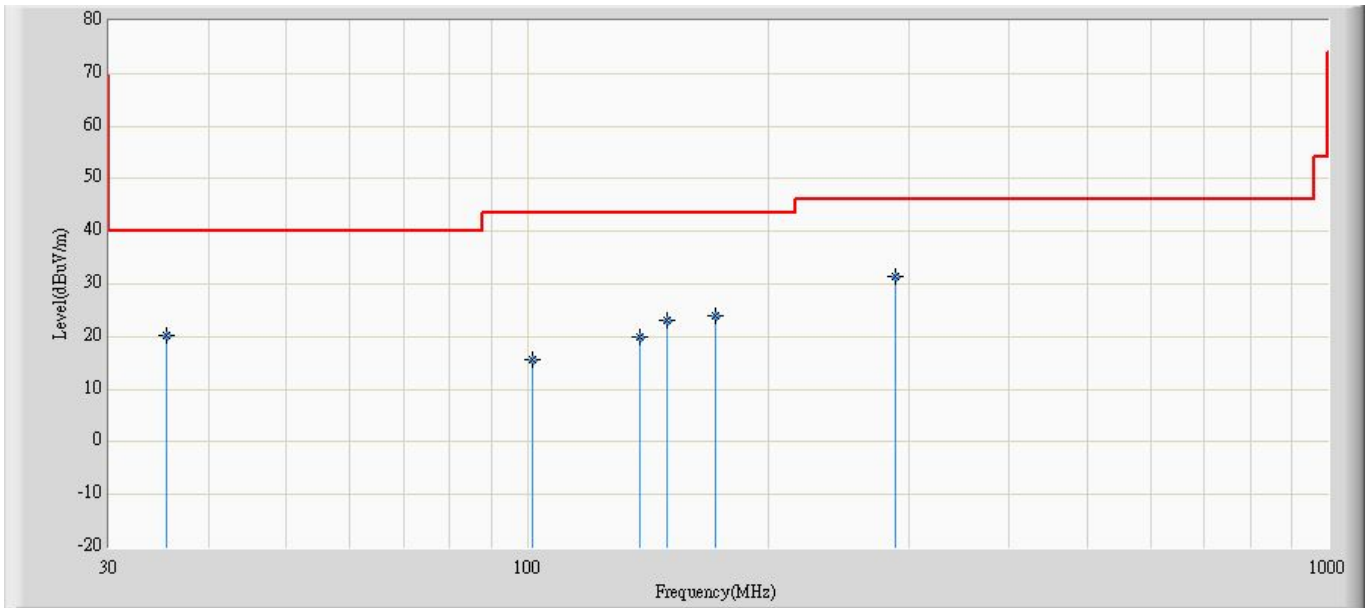
Engineer: Sunny	
Site: AC2	Time: 2011/04/15 - 13:51
Limit: FCC_Part15.109_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Wireless Device	Power: DC 12V
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			33.031	27.826	11.330	-12.174	40.000	16.496	QP
2			89.049	31.465	21.942	-12.035	43.500	9.523	QP
3		*	145.551	33.927	22.674	-9.573	43.500	11.252	QP
4			169.559	32.267	21.933	-11.233	43.500	10.334	QP
5			195.506	32.919	22.834	-10.581	43.500	10.085	QP
6			287.171	34.859	20.728	-11.141	46.000	14.131	QP

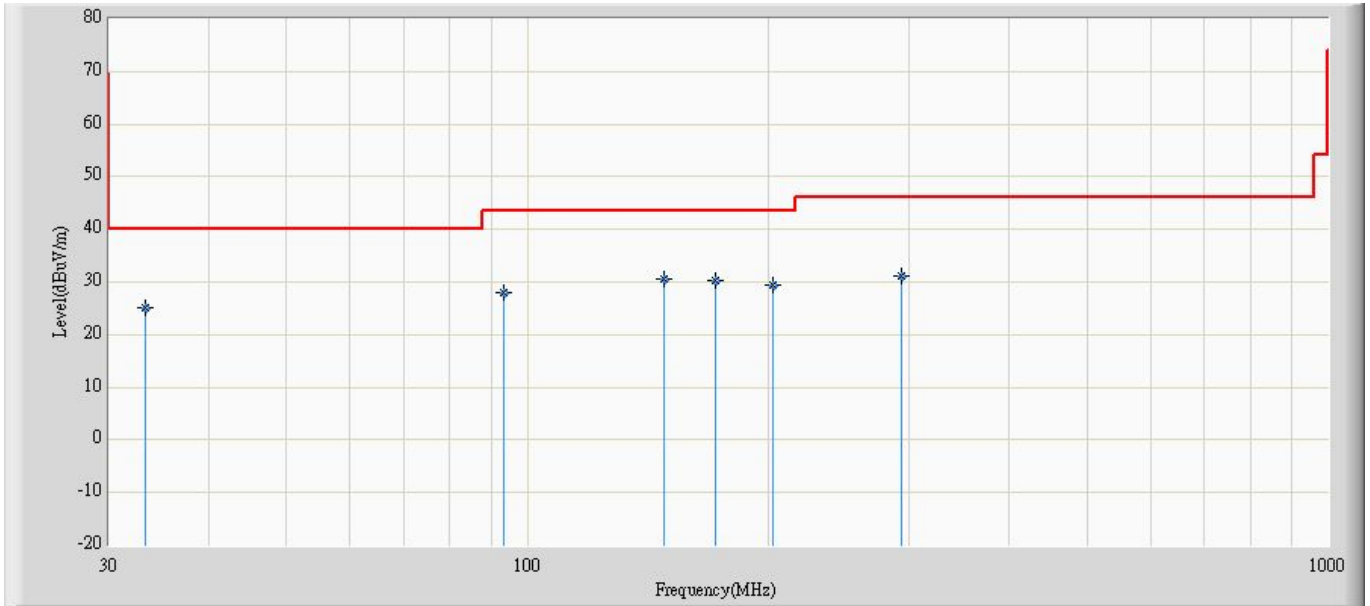


Engineer: Sunny	
Site: AC2	Time: 2011/04/15 - 14:03
Limit: FCC_Part15.109_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Wireless Device	Power: DC 12V
Note: Mode 2	



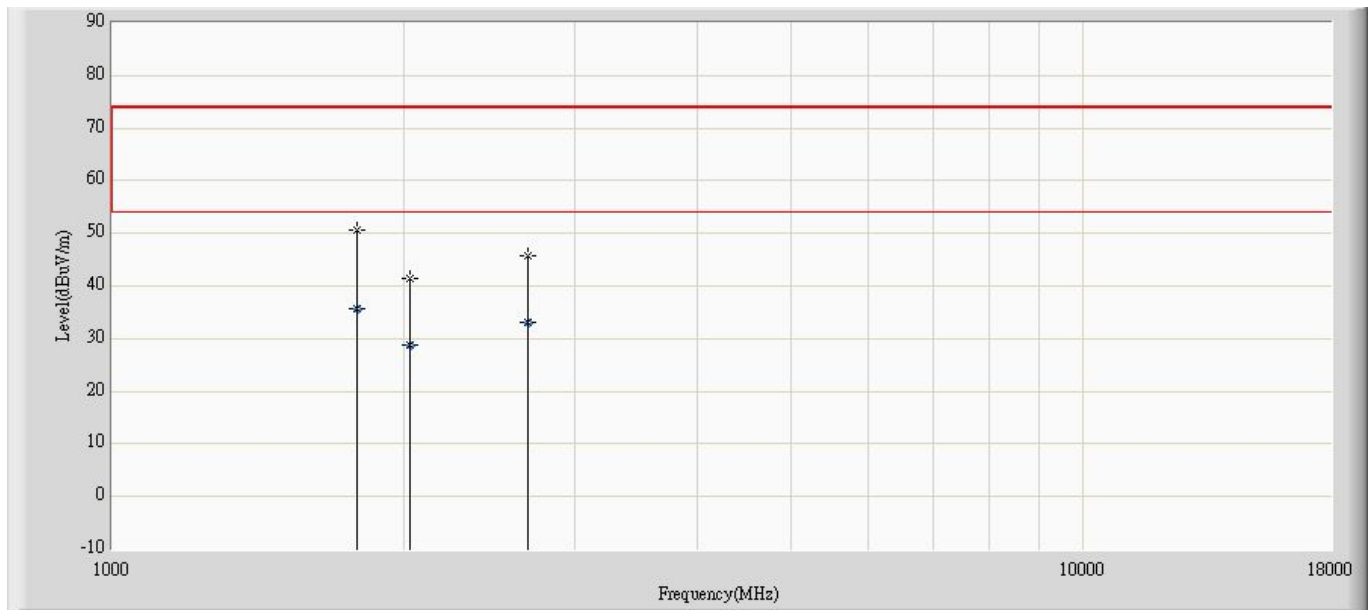
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			35.456	20.181	4.998	-19.819	40.000	15.183	QP
2			101.295	15.540	3.925	-27.960	43.500	11.615	QP
3			138.155	20.016	8.006	-23.484	43.500	12.010	QP
4			149.674	23.064	12.097	-20.436	43.500	10.968	QP
5			171.378	23.975	13.750	-19.525	43.500	10.225	QP
6		*	288.141	31.460	17.319	-14.540	46.000	14.141	QP

Engineer: Sunny	
Site: AC2	Time: 2011/04/15 - 14:03
Limit: FCC_Part15.109_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Wireless Device	Power: DC 12V
Note: Mode 2	



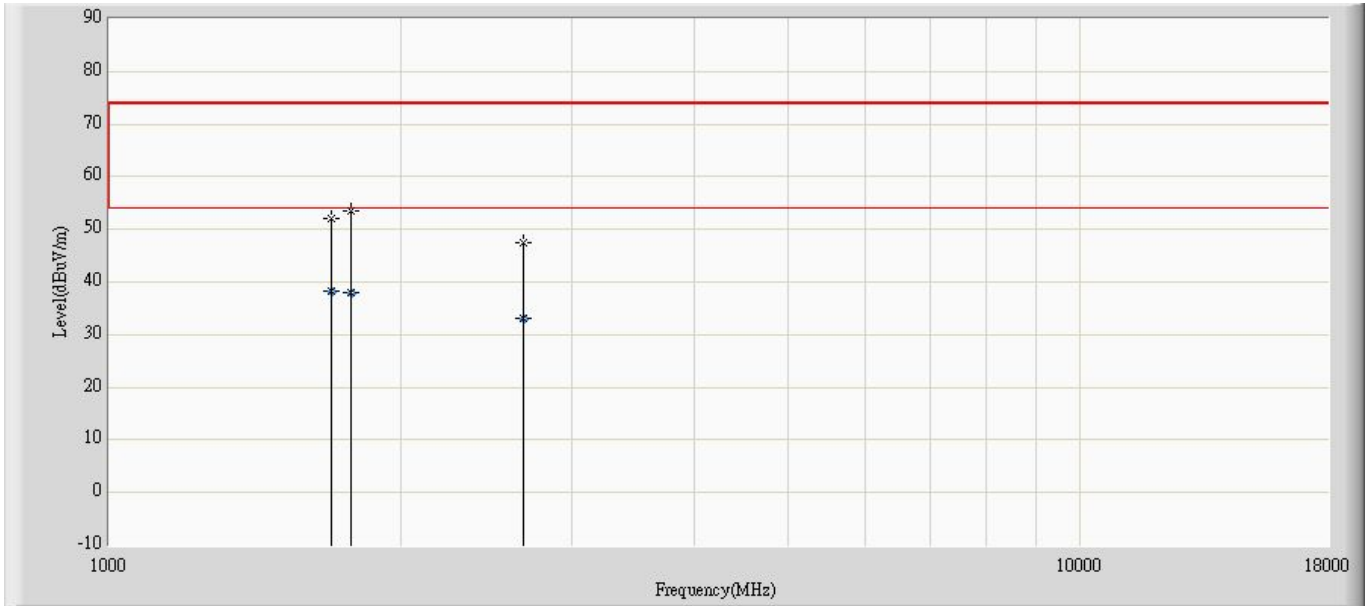
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			33.274	25.229	8.860	-14.771	40.000	16.369	QP
2			93.293	28.067	17.719	-15.433	43.500	10.348	QP
3		*	148.340	30.681	19.621	-12.819	43.500	11.060	QP
4			171.378	30.384	20.159	-13.116	43.500	10.225	QP
5			202.902	29.426	19.313	-14.074	43.500	10.112	QP
6			293.598	31.009	16.699	-14.991	46.000	14.310	QP

Engineer: Sunny	
Site: AC5	Time: 2011/04/18 - 16:20
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Device	Power: DC 12V
Note: Mode 1	



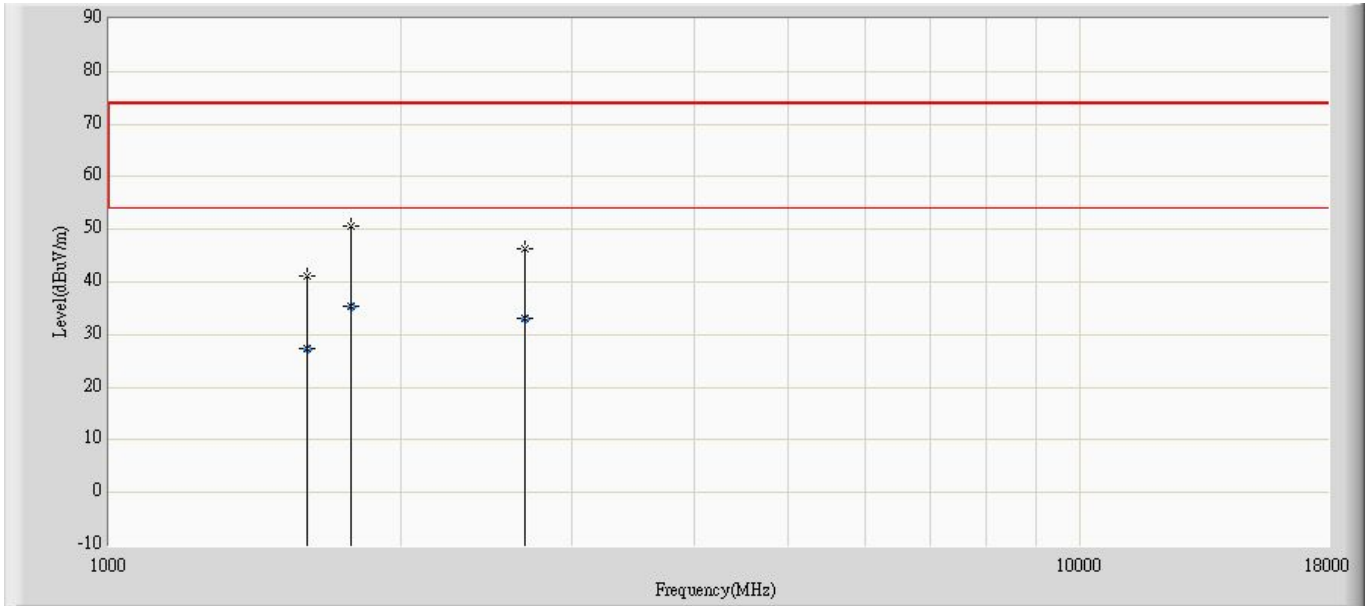
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1790.000	50.626	59.506	-23.374	74.000	-8.879	PK
2		*	1790.380	35.741	44.620	-18.259	54.000	-8.879	AV
3			2030.000	41.473	49.195	-32.527	74.000	-7.722	PK
4			2030.260	28.923	36.640	-25.077	54.000	-7.716	AV
5			2682.500	45.713	51.138	-28.287	74.000	-5.425	PK
6			2683.460	33.238	38.670	-20.762	54.000	-5.432	AV

Engineer: Sunny	
Site: AC5	Time: 2011/04/18 - 16:20
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Wireless Device	Power: DC 12V
Note: Mode 1	



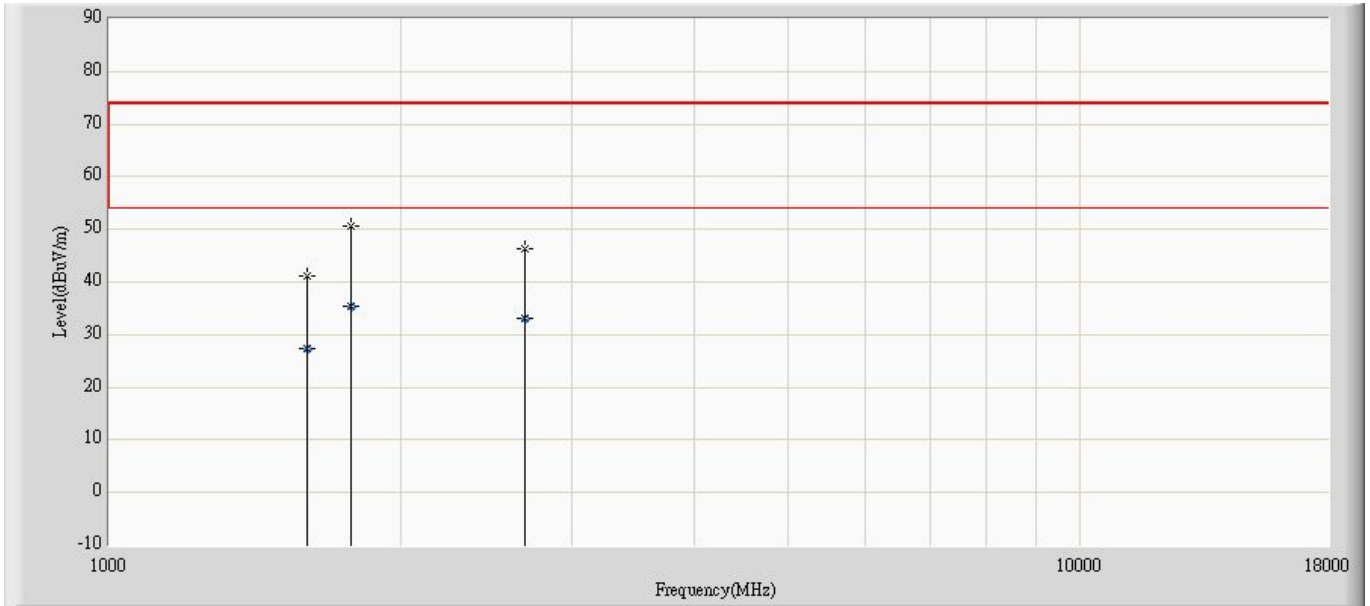
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1692.500	52.209	61.272	-21.791	74.000	-9.063	PK
2		*	1692.500	38.200	13.495	-15.800	54.000	24.705	AV
3			1775.000	53.509	62.464	-20.491	74.000	-8.956	PK
4			1775.360	37.909	46.860	-16.091	54.000	-8.952	AV
5			2667.500	47.427	52.744	-26.573	74.000	-5.317	PK
6			2668.240	33.028	38.350	-20.972	54.000	-5.322	AV

Engineer: Sunny	
Site: AC5	Time: 2011/04/18 - 16:20
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Device	Power: DC 12V
Note: Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1597.500	41.265	50.307	-32.735	74.000	-9.043	PK
2			1598.340	27.278	36.320	-26.722	54.000	-9.042	AV
3			1772.500	50.611	59.592	-23.389	74.000	-8.981	PK
4		*	1773.130	35.545	44.520	-18.455	54.000	-8.975	AV
5			2680.000	46.305	51.712	-27.695	74.000	-5.407	PK
6			2680.350	33.111	38.520	-20.889	54.000	-5.409	AV

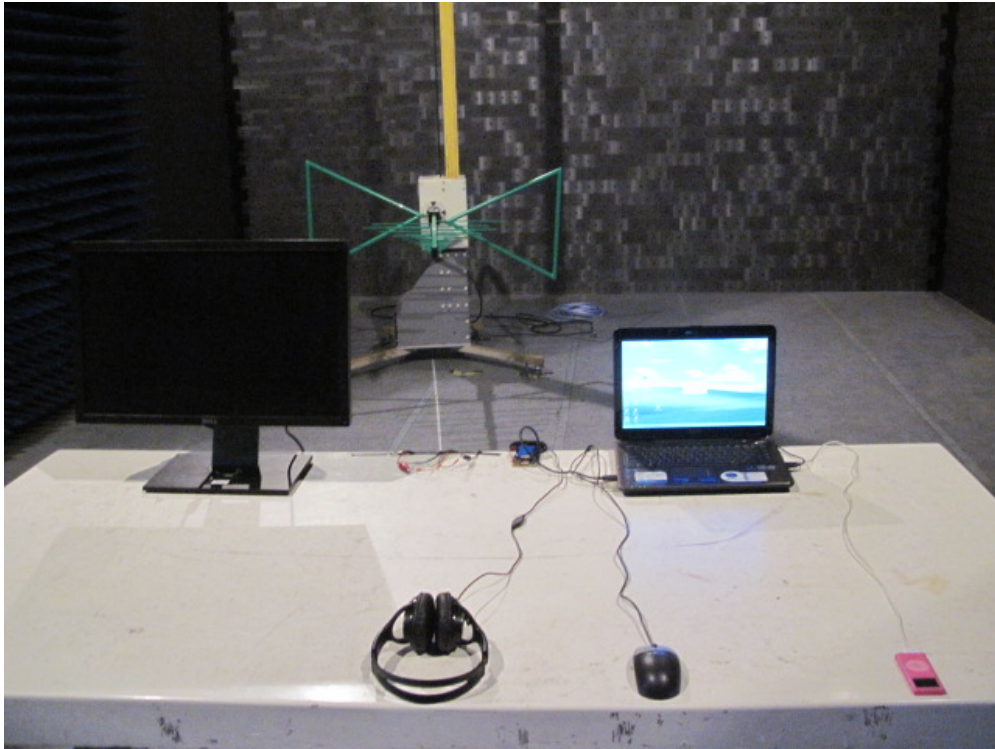
Engineer: Sunny	
Site: AC5	Time: 2011/04/18 - 16:20
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Wireless Device	Power: DC 12V
Note: Mode 2	



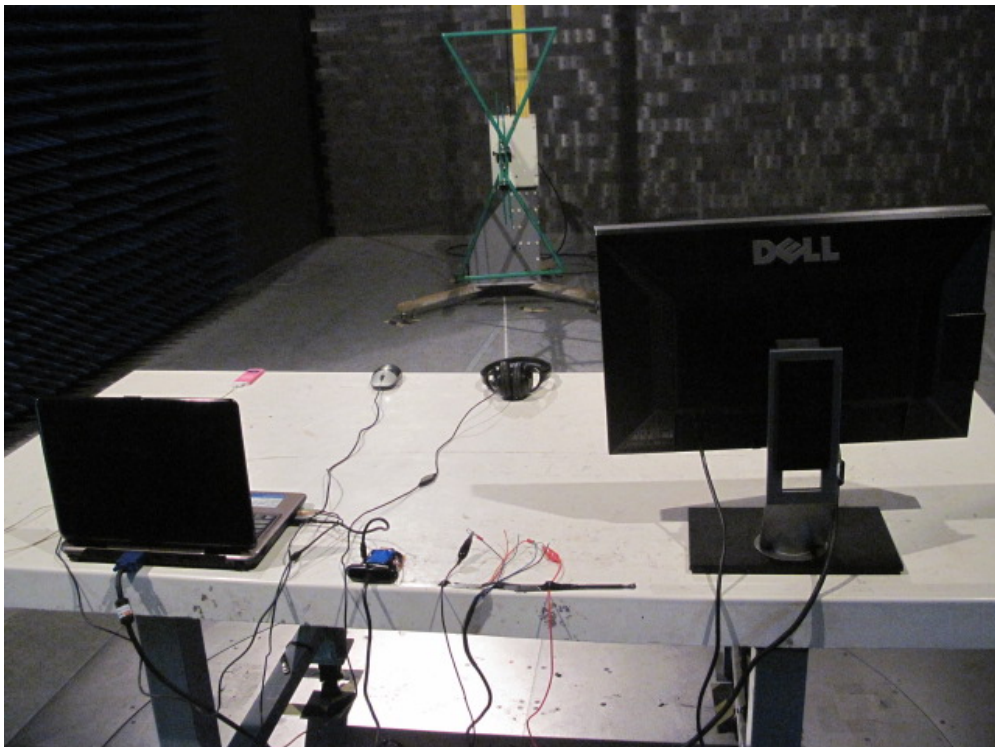
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1597.500	41.265	50.307	-32.735	74.000	-9.043	PK
2			1598.340	27.278	36.320	-26.722	54.000	-9.042	AV
3			1772.500	50.611	59.592	-23.389	74.000	-8.981	PK
4		*	1773.130	35.545	44.520	-18.455	54.000	-8.975	AV
5			2680.000	46.305	51.712	-27.695	74.000	-5.407	PK
6			2680.350	33.111	38.520	-20.889	54.000	-5.409	AV

#### 4.7. Test Photograph

Description: Front View of Radiated Emission Test Setup for Below 1GHz-Mode 1~2



Description: Rear View of Radiated Emission Test Setup for Below 1GHz-Mode 1~2

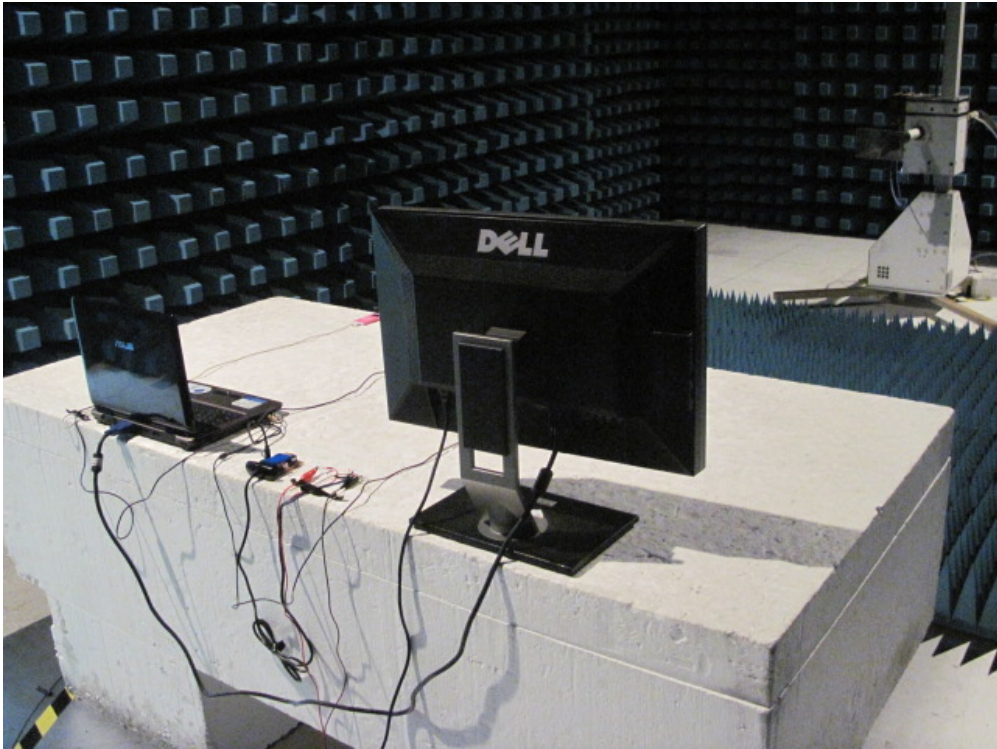




Description: Front View of Radiated Emission Test Setup for Above 1GHz-Mode 1~2

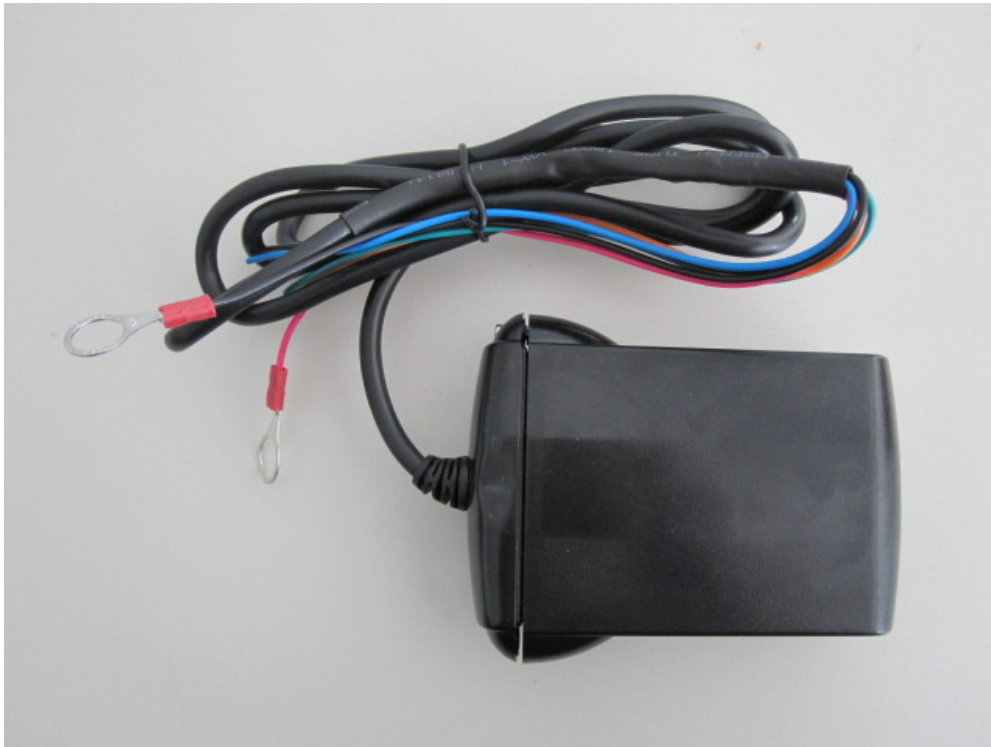


Description: Rear View of Radiated Emission Test Setup for Above 1GHz-Mode 1~2





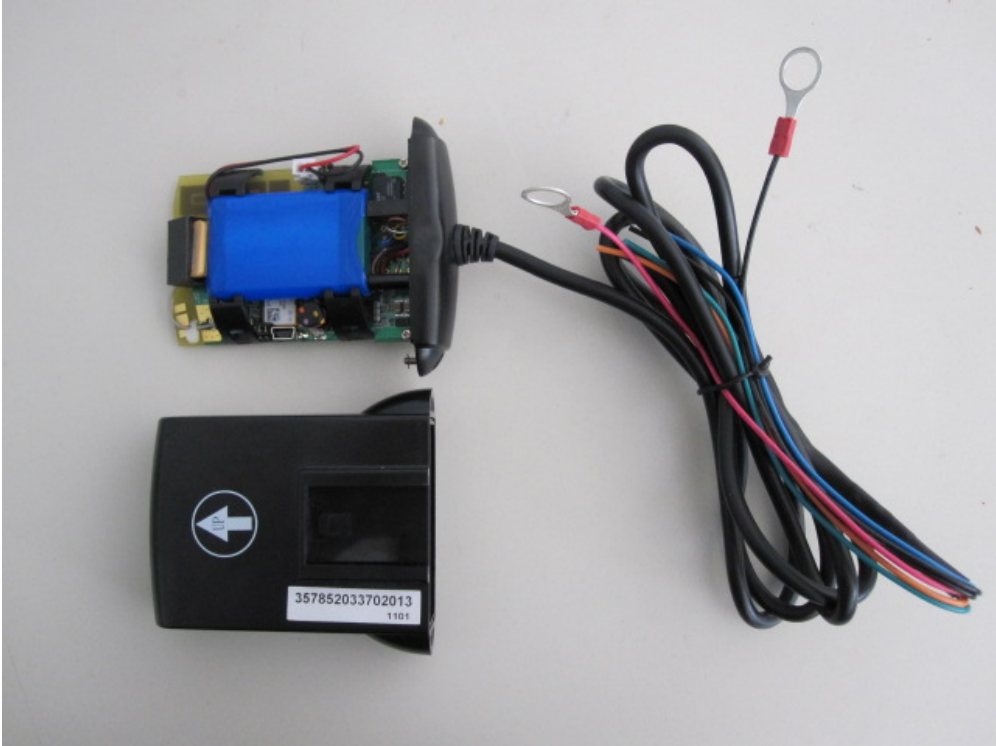
- 5. Attachment
  - EUT Photograph
    - (1) EUT Photo



- (2) EUT Photo



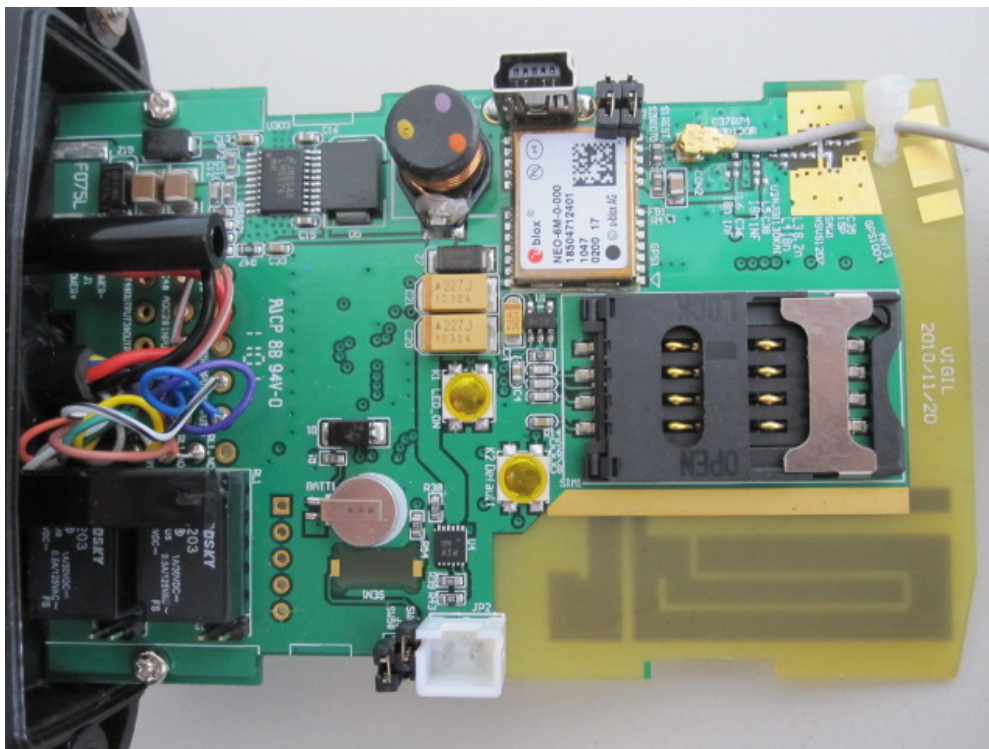
(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo

