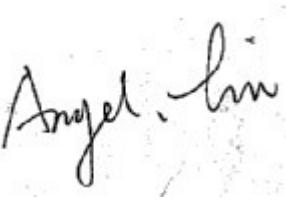
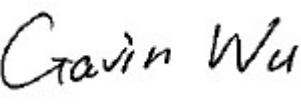


## TEST REPORT

Report No.:	EM201200126-5	Application No.:	ZJ00013959
Client:	CHESTER CREEK TECHNOLOGIES INC.		
Address:	205 WEST 2ND STREET, SUITE 130, DULUTH, MN 55802, U.S.A.		
Sample Description:	2.4GKeyboard+Optical Mouse Combo		
Model:	WVBB		
Test Location:	EMC Laboratory of Guangzhou GRG Metrology and Test Co., Ltd.		
Test Specification:	FCC 15.249:2010		
Issue Date:	2012-05-04		
Test Result:	Pass.		
Prepared By:	Reviewed By:	Approved By:	
Apple Li / Test Engineer	Angel Liu/ Engineer	Gavin Wu / Manager	
			
Date: 2012-05-04	Date: 2012-05-04	Date: 2012-05-04	
<b>Other Aspects:</b>			
None			
Abbreviations: <i>ok / P = passed; fail / F = failed; n.a. / N = not applicable</i>			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			

**DIRECTIONS OF TEST**

- 1. The test standards at this station are examined and given as public standards of measurement by the Metrological Unit of the Committee of National Defence Science Industry. The authorized certificate number is DL175. This station is also authorized by CNAS. The certificate number is L0446. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.**
- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**
- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

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## 1. TEST RESULT SUMMARY

FCC 15.249:2010			
Standard	Item	Limit / Severity	Result
FCC 15.249:2010	Intentional radiators Field Strength	FCC Part 15.249(a)	PASS
	Radiated Electromagnetic Disturbance	FCC Part 15.249 (e)	PASS
	Conduction Emissions	/	N/A(Note)
	Out of Band Emissions	FCC Part 15.249(d)	PASS

Note: The EUT is own DC 3V battery supply

## 2. GENERAL DESCRIPTION OF EUT

### 2.1 APPLICANT

Name: CHESTER CREEK TECHNOLOGIES INC.  
Address: 205 WEST 2ND STREET, SUITE 130, DULUTH, MN 55802, U.S.A.

### 2.2 MANFACTURER

Name: ACCESSPRO ELECTRONICS CO., LTD.  
Address: ROOM 3B27, 3F, NO. 5, SEC. 5, HSIN YI ROAD, TAIPEI, TAIWAN,  
R.O.C.

### 2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: 2.4GKeyboard+Optical Mouse Combo  
Model No.: WVBB  
  
Trade Name: CHESTER CREEK  
  
Power Supply: Keyboard+ Mouse :DC 3V(Battery Size: 1.5 "AA"\*2)  
Dongle:DC 5V(USB Port)  
Channel 2402MHz~2480MHz  
  
Channel number 79  
  
Note: /

### 2.4 TEST OPERATION MODES

Test mode: Mode 1:Fixed frequency mode that continuous transmission with 100%  
duty cycle

### 3. LABORATORY AND ACCREDITATIONS

#### 3.1 LABORATORY

The tests and measurements refer to this report were performed by EMC Laboratory of Guangzhou GRG Metrology and Test Co., Ltd.

Add. : 163 Pingyun Rd, West of Huangpu Ave, Guangzhou, 510656, P. R. China  
 Telephone: +86-20-38699959, 38699960, 38699961  
 Fax : +86-20-38695185

#### 3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC Listed Lab No. 688188
China	CNAS NO.L0446
China	DILAC No.DL175
Canada	Registration No.:8355A-1

#### 3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Radiated Emission	Horizontal 30MHz~1000MHz	4.2dB
	Horizontal 1GHz~18GHz	4.2dB
	Vertical 30MHz~1000MHz	4.4dB
	Vertical 1GHz~18GHz	4.4dB

This uncertainty represents an expanded uncertainty factor of  $k=2$ .

### 3.4 LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
<b>Radiated Emission</b>				
Bi-Log Antenna	ETS-LINDGRE N	3142C	75971	2012-07-30
EMI Receiver	Rohde & Schwarz	ESCI	100529	2012-06-09
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA9120E3 18	2011-09-24
<b>Intentional radiators Field Strength</b>				
EMI Receiver	Rohde & Schwarz	ESCI	100529	2012-06-09
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA9120E3 18	2011-09-24
<b>Out of Band Emissions</b>				
Out of Band Emissions	Rohde & Schwarz	ESCI	100529	2012-06-09

## 4. EMISSION TEST

### 4.1 INTENTIONAL RADIATORS FIELD STRENGTH

#### 4.1.1 LIMITS

Frequency (MHz)	Field Strength
2400~2483.5	50(millivolts/meter)
Field Strength of Harmonics	500(microvolts/meter)

#### 4.1.2 TEST PROCEDURE

##### Procedure of Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

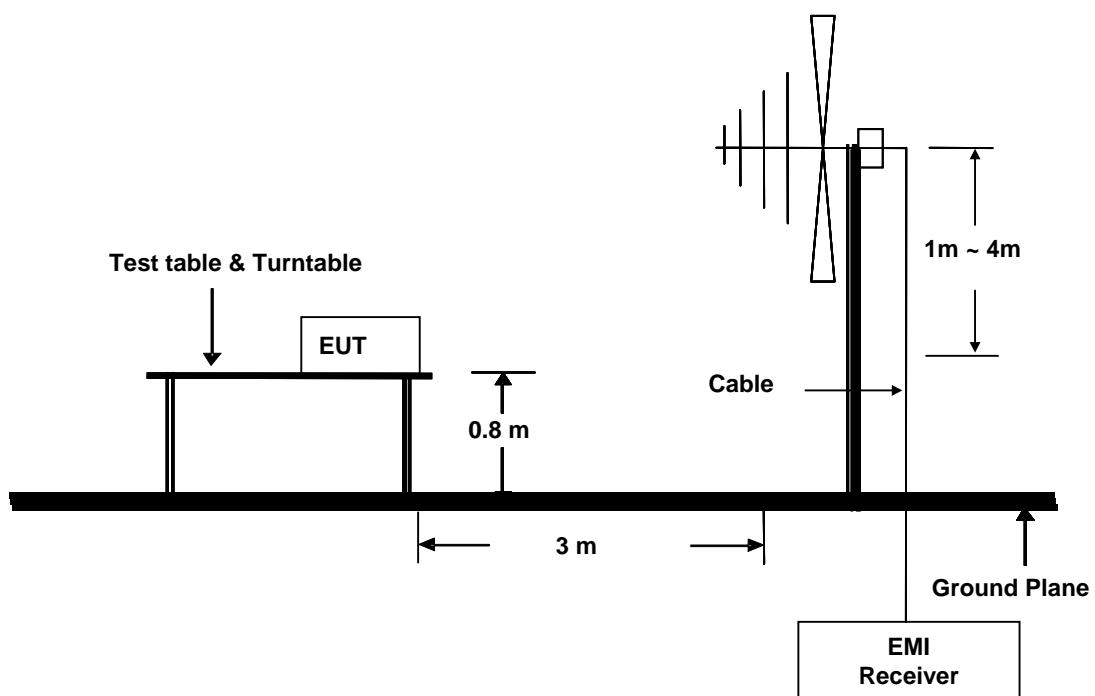
The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height  $0,8\text{ m} \pm 0,01\text{ m}$ , ANSI C63.10:2009 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the test.

#### 4.1.3 TEST SETUP



#### 4.1.4 TEST RESULTS

Test Result:	Pass	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 3m_PEAK	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012-4-11
Temp./Hum.(%RH):	25/57%RH	Time:	17:43:34
EUT:	Keyboard	Model:	WVBB
Note:	2402MHZ		

Polarization	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Vertical	2402	41.12	27.25	68.37	114.00	-45.63	peak
Vertical	2402	21.35	27.25	48.60	94.00	-45.40	AVG
Horizontal	2402	44.54	27.25	71.79	114.00	-42.21	peak
Horizontal	2402	24.05	27.25	51.30	94.00	-42.70	AVG
Vertical	2441	40.07	27.40	67.47	114.00	-46.53	peak
Vertical	2441	23.20	27.40	50.60	94.00	-43.40	AVG
Horizontal	2441	44.43	27.40	71.83	114.00	-42.17	peak
Horizontal	2441	24.90	27.40	52.30	94.00	-41.70	AVG
Vertical	2480	37.03	27.53	64.56	114.00	-49.44	peak
Vertical	2480	21.27	27.53	48.80	94.00	-45.20	AVG
Horizontal	2480	41.20	27.53	68.73	114.00	-45.27	peak
Horizontal	2480	22.67	27.53	50.20	94.00	-43.80	AVG

## 4.2 RADIATED ELECTROMAGNETIC DISTURBANCE

### 4.2.1 LIMITS

Frequency (MHz)	Quasi-peak(dB $\mu$ V/m)
30 ~ 88	40
88~216	43.5
216 ~ 960	46
Above 960	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

Frequency (GHz)	PEAK and AVG(dB $\mu$ V/m)
Above 1G	74 PEAK
Above 1G	54 AVG

### 4.2.2 TEST PROCEDURES

#### Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height  $0,8\text{ m} \pm 0,01\text{ m}$ , ANSI C63.10:2009 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

### Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only QP reading is presented. The test data of the worst-case condition(s) was recorded.

### Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, 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. The test data of the worst-case condition(s) was recorded.

### 4.2.3 TEST SETUP

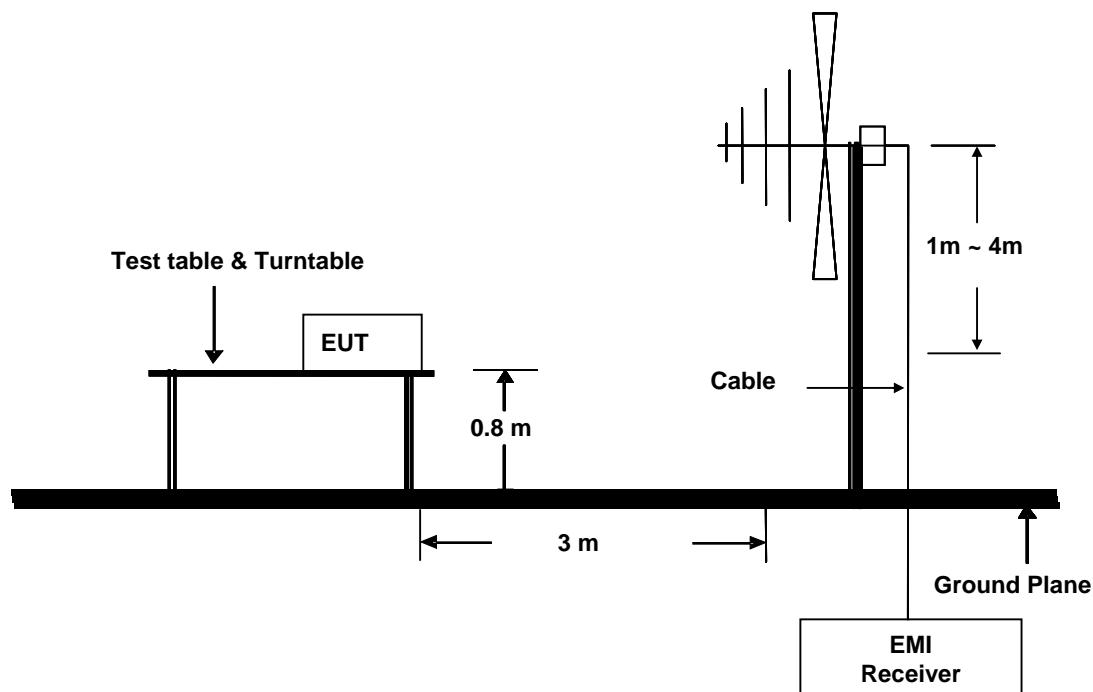


Figure 1. 30MHz to 1GHz radiated emissions test configuration

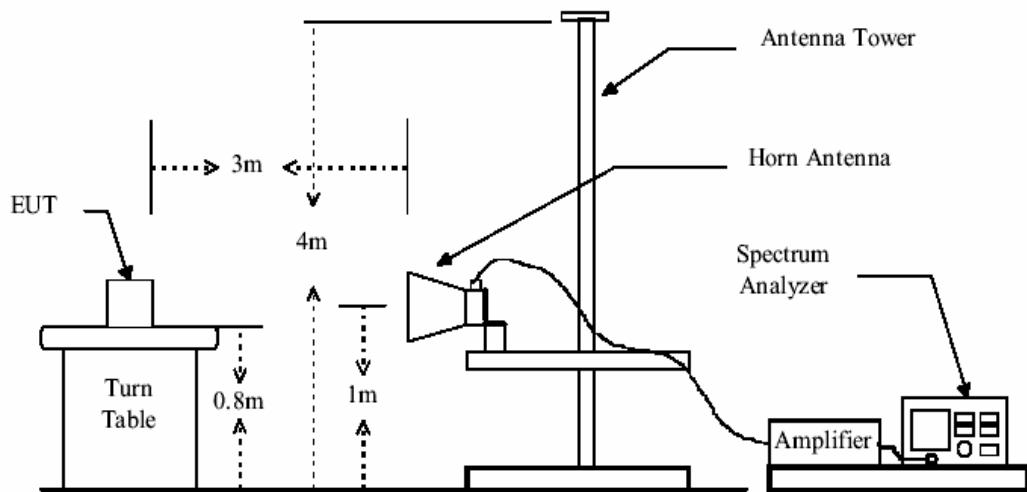
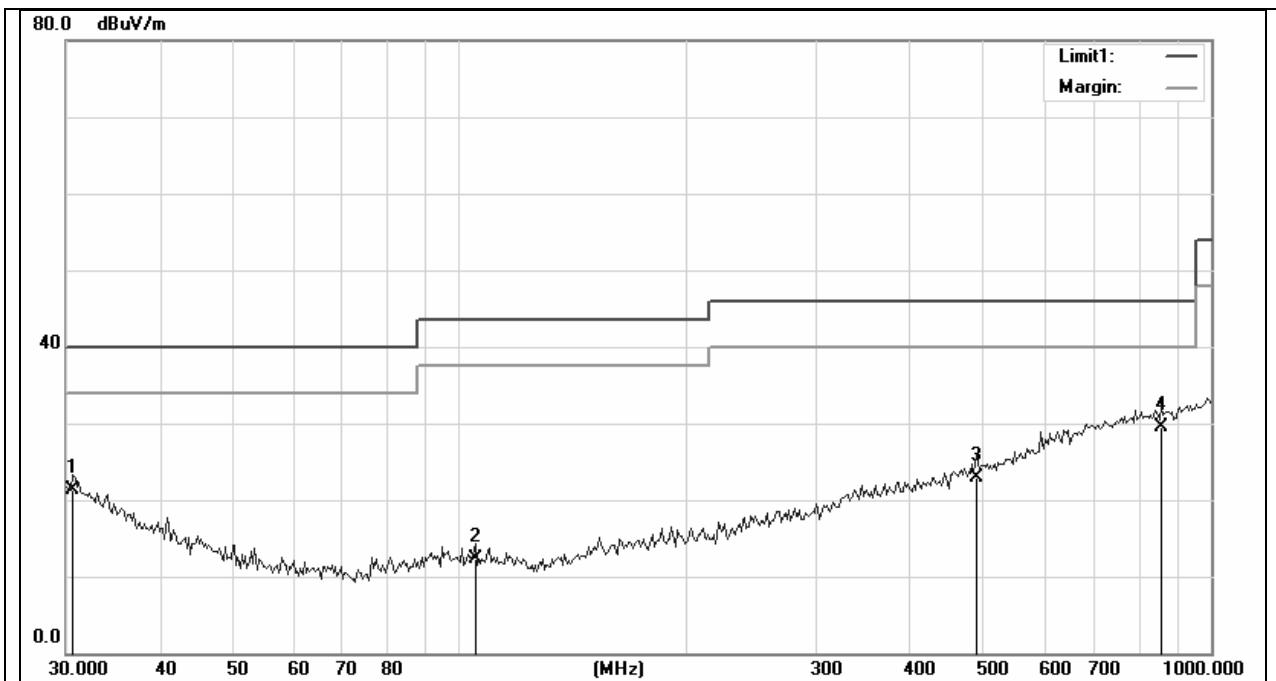


Figure 2. Above 1GHz radiated emissions test configuration

#### 4.2.4 TEST RESULTS

Test Result:	Pass	Probe:	Vertical
Standard:	(RE)FCC PART 15 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012-4-11
Temp./Hum.(%RH):	25/57%RH	Time:	15:26:05
EUT:	Keyboard	Model:	WVBB
Note:	2402MHZ		

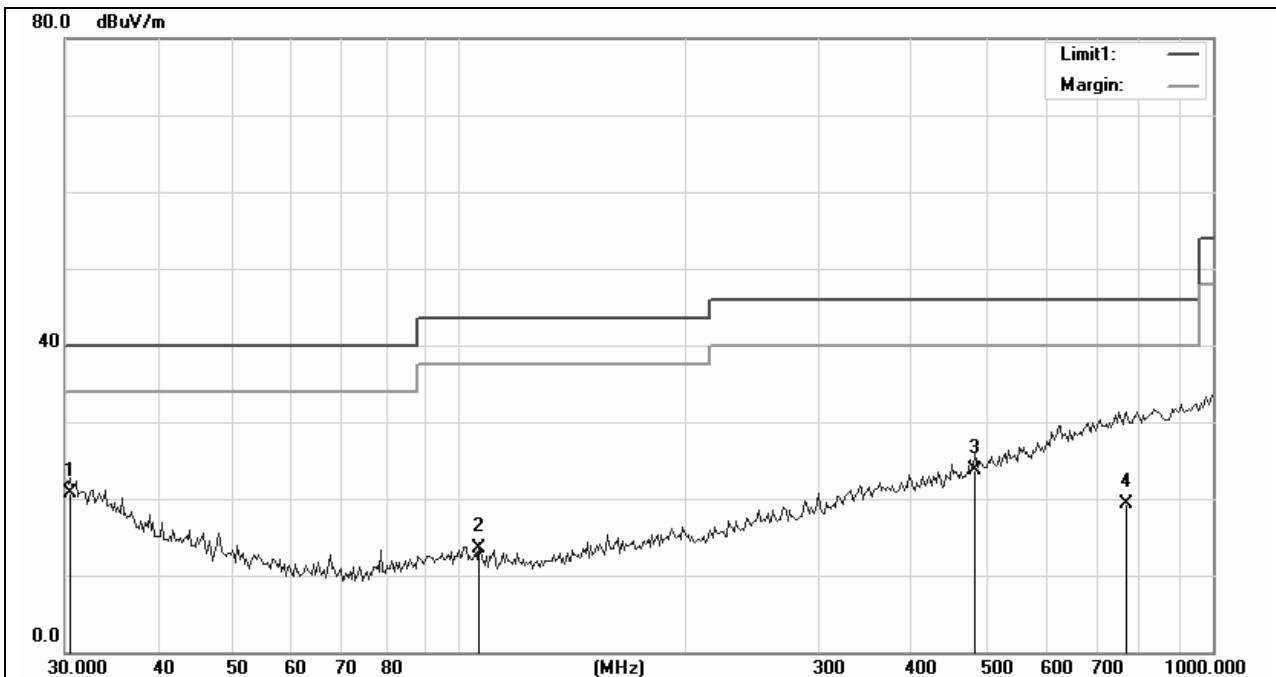


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	30.6818	2.29	19.01	21.30	40.00	-18.70	QP
2	105.0400	2.55	9.75	12.30	43.50	-31.20	QP
3	487.0960	2.98	19.92	22.90	46.00	-23.10	QP
4	859.2236	4.29	25.31	29.60	46.00	-16.40	QP

Emission above 1GHz:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	3624.890	56.65	74.00	-17.35	PEAK
2	3624.890	44.22	54.00	-9.78	AVG
3	4763.044	58.34	74.00	-15.66	PEAK
4	4763.044	45.25	54.00	-8.75	AVG
5	8284.556	64.26	74.00	-9.74	PEAK
6	8284.556	48.01	54.00	-5.99	AVG

<b>Test Result:</b>	Pass	<b>Probe:</b>	Horizontal
<b>Standard:</b>	(RE)FCC PART 15 3m	<b>Power Source:</b>	DC 3V
<b>Test item:</b>	Radiation Test	<b>Date:</b>	2012-4-11
<b>Temp./Hum.(%RH):</b>	25/57%RH	<b>Time:</b>	15:36:05
<b>EUT:</b>	Keyboard	<b>Model:</b>	WVBB
<b>Note:</b>	2402MHZ		

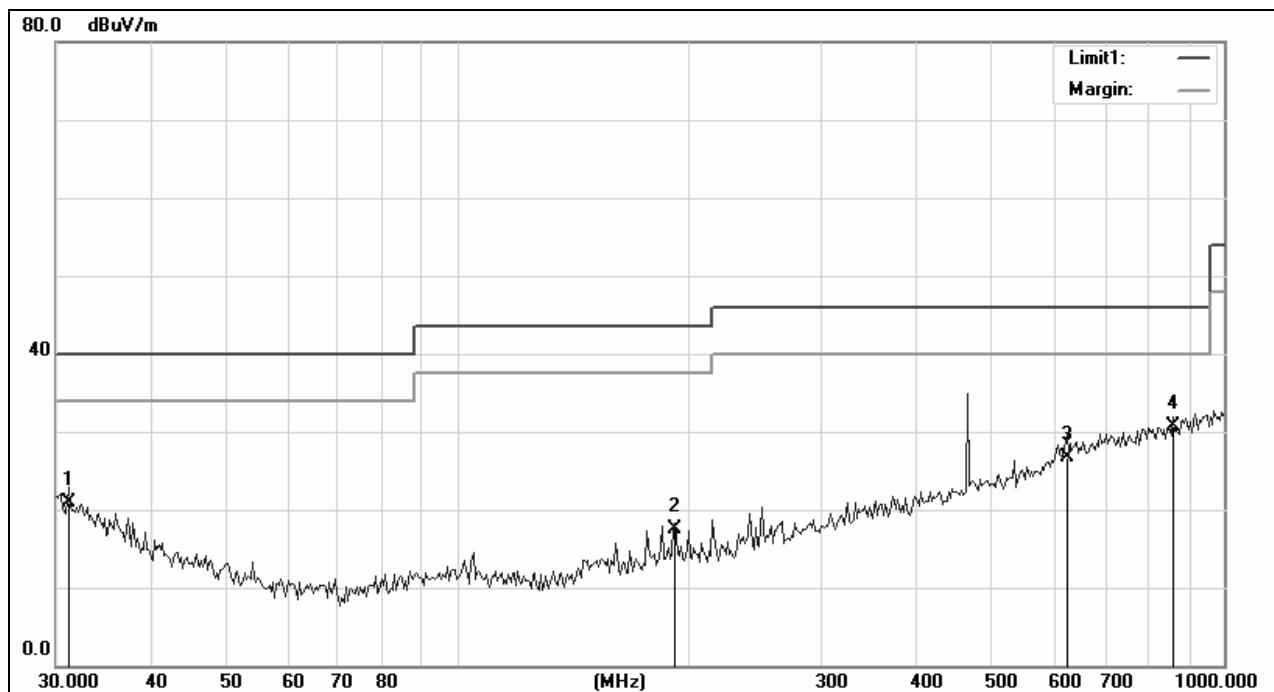


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	30.5100	1.68	19.12	20.80	40.00	-19.20	QP
2	106.2271	3.81	9.69	13.50	43.50	-30.00	QP
3	484.3663	3.86	19.94	23.80	46.00	-22.20	QP
4	767.8845	-5.20	24.50	19.30	46.00	-26.70	QP

Emission above 1GHz:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	3638.291	55.49	74.00	-18.51	PEAK
2	3638.291	45.20	54.00	-8.8	AVG
3	5480.019	59.26	74.00	-14.74	PEAK
4	5480.019	46.09	54.00	-7.91	AVG
5	7666.822	63.73	74.00	-10.27	PEAK
6	7666.822	47.34	54.00	-6.66	AVG

Test Result:	Pass	Probe:	Vertical
Standard:	(RE)FCC PART 15 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012-4-11
Temp./Hum.(%RH):	25/57%RH	Time:	15:46:05
EUT:	Keyboard	Model:	WVBB
Note:	2441MHZ		

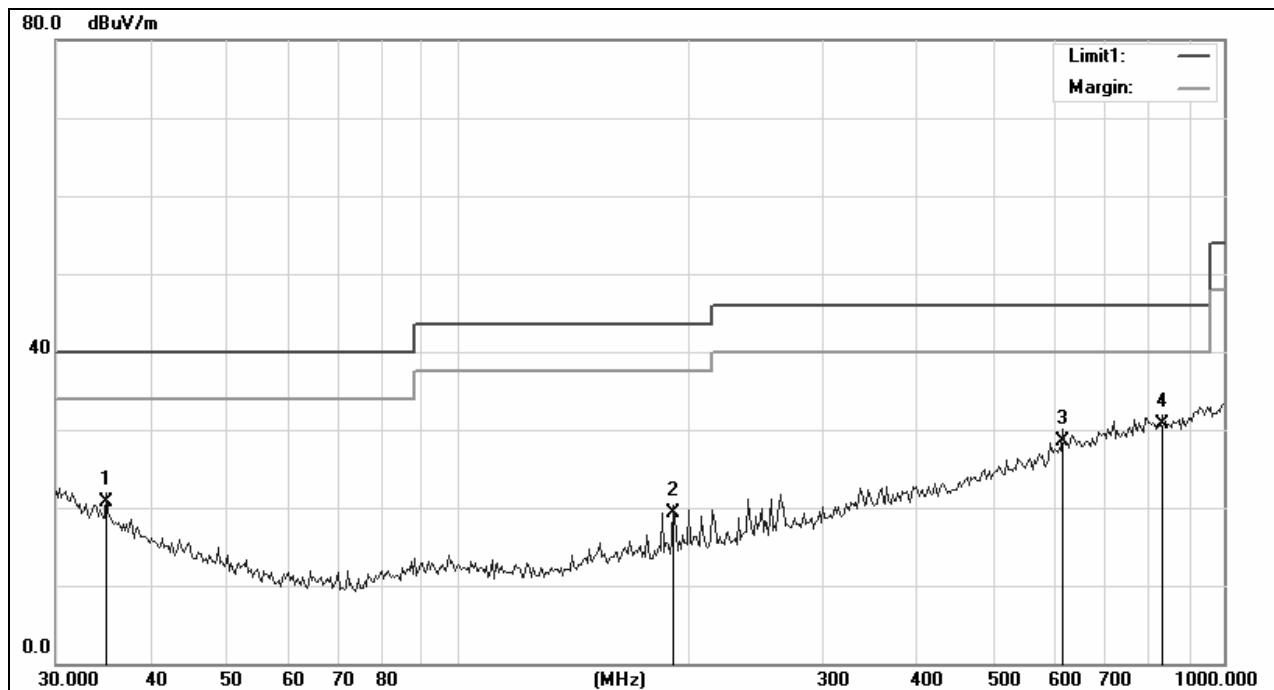


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	31.2036	2.22	18.68	20.90	40.00	-19.10	QP
2	192.7214	6.06	11.44	17.50	43.50	-26.00	QP
3	623.7305	4.00	22.80	26.80	46.00	-19.20	QP
4	859.2236	5.49	25.31	30.80	46.00	-15.20	QP

Emission above 1GHz:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	3638.291	56.57	74.00	-17.43	PEAK
2	5223.345	45.67	54.00	-8.33	AVG
3	5223.345	59.49	74.00	-14.51	PEAK
4	5223.345	46.03	54.00	-7.97	AVG
5	8691.657	64.48	74.00	-9.52	PEAK
6	8691.657	47.67	54.00	-6.33	AVG

<b>Test Result:</b>	Pass	<b>Probe:</b>	Horizontal
<b>Standard:</b>	(RE)FCC PART 15 3m	<b>Power Source:</b>	DC 3V
<b>Test item:</b>	Radiation Test	<b>Date:</b>	2012-4-11
<b>Temp./Hum.(%RH):</b>	25/57%RH	<b>Time:</b>	15:56:05
<b>EUT:</b>	Keyboard	<b>Model:</b>	WVBB
<b>Note:</b>	2441MHZ		

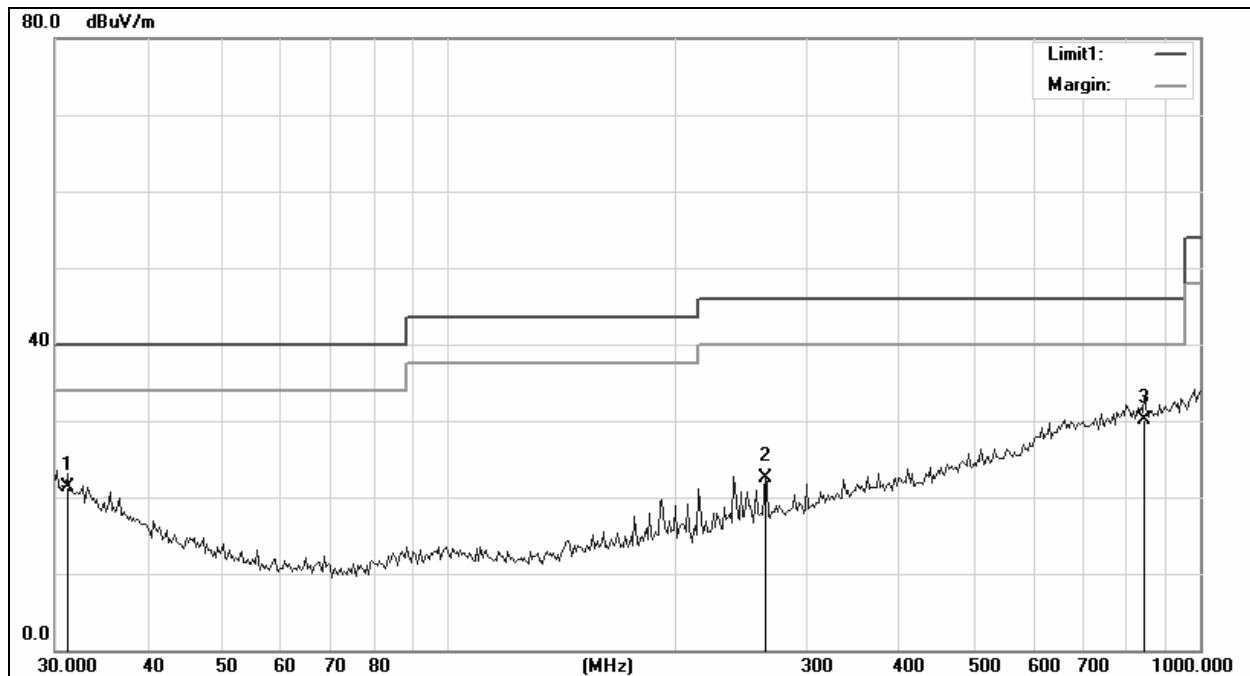


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	34.9151	4.36	16.44	20.80	40.00	-19.20	QP
2	191.6416	7.85	11.45	19.30	43.50	-24.20	QP
3	616.7597	5.97	22.63	28.60	46.00	-17.40	QP
4	830.7362	5.53	25.27	30.80	46.00	-15.20	QP

Emission above 1GHz:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	3638.291	55.75	74.00	-18.25	PEAK
2	3638.291	45.67	54.00	-8.33	AVG
3	4710.608	58.27	74.00	-15.73	PEAK
4	4710.608	47.89	54.00	-6.11	AVG
5	8133.105	63.30	74.00	-10.70	PEAK
6	8133.105	51.22	54.00	-2.78	AVG

Test Result:	Pass	Probe:	Vertical
Standard:	(RE)FCC PART 15 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012-4-11
Temp./Hum.(%RH):	25/57%RH	Time:	15:26:56
EUT:	Keyboard	Model:	WVBB
Note:	2480MHZ		

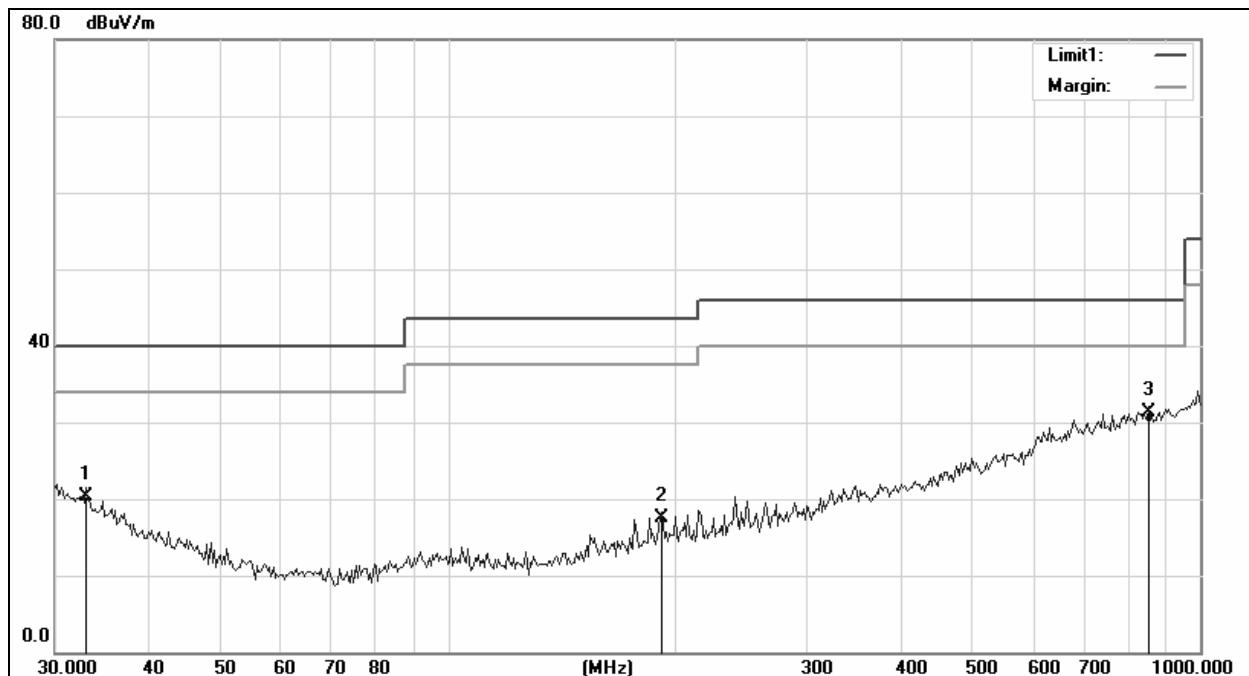


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	31.2036	2.72	18.68	21.40	40.00	-18.60	QP
2	263.9970	8.48	14.02	22.50	46.00	-23.50	QP
3	844.8599	5.01	25.19	30.20	46.00	-15.80	QP

Emission above 1GHz:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	3733.493	56.95	74.00	-17.05	PEAK
2	3733.493	46.67	54.00	-7.33	AVG
3	4728.022	58.19	74.00	-15.81	PEAK
4	3733.493	47.90	54.00	-6.10	AVG
5	6888.760	62.81	74.00	-11.19	PEAK
6	6888.760	50.22	54.00	-3.78	AVG

Test Result:	Pass	Probe:	Horizontal
Standard:	(RE)FCC PART 15 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012-4-11
Temp./Hum.(%RH):	25/57%RH	Time:	15:26:56
EUT:	Keyboard	Model:	WVBB
Note:	2480MHZ		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	33.0073	2.80	17.60	20.40	40.00	-19.60	QP
2	192.7214	6.06	11.44	17.50	43.50	-26.00	QP
3	854.4088	6.17	25.23	31.40	46.00	-14.60	QP

Emission above 1GHz:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
1	3789.009	56.79	74.00	-17.21	PEAK
2	3789.009	46.67	54.00	-7.33	AVG
3	6863.386	61.76	74.00	-12.24	PEAK
4	6863.386	49.90	54.00	-4.10	AVG
5	9357.371	63.92	74.00	-10.08	PEAK
6	9357.371	52.22	54.00	-1.78	AVG

Remark:

The disturbance above 10G was very low, and the above harmonics were the highest point could be found when testing , so only the above harmonics had been displayed.

## 4.3 OUT OF BAND EMISSIONS

### 4.3.1 LIMITS

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

### 4.3.2 TEST PROCEDURES

#### Procedure of Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

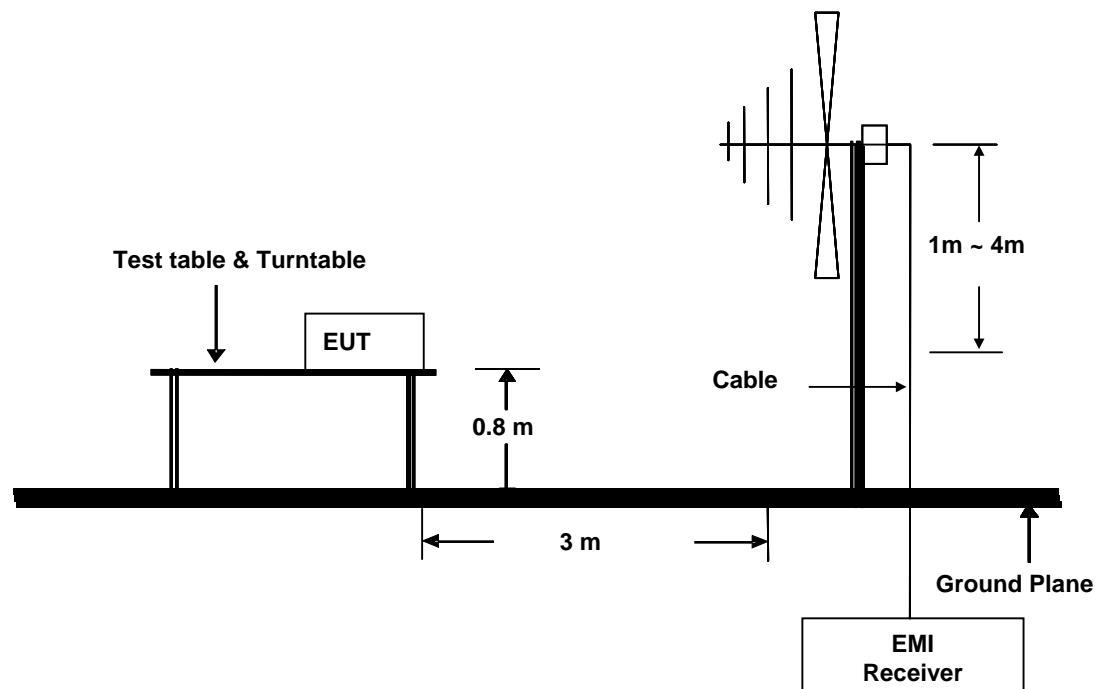
The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height  $0,8\text{ m} \pm 0,01\text{ m}$ , ANSI C63.10:2009 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the test.

#### 4.3.3 TEST SETUP



### 4.3.4 TEST RESULTS

The field strength was measured with an EMI measuring receiver and 1 MHz RBW / VBW for peak and with 1MHz RBW / 10Hz VBW for average at a distance of 3m

#### Peak Measurement:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna polarization
1	2395.192	51.50	2.66	54.16	74.00	-19.84	Horizontal
2	2483.590	51.60	5.88	57.48	74.00	-16.52	Horizontal
3	2395.192	51.60	2.66	54.26	74.00	-19.74	Vertical
4	2483.590	51.44	5.88	57.32	74.00	-16.68	Vertical

#### AV Measurement:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna polarization
1	2395.192	30.55	2.66	33.21	54.00	-20.79	Horizontal
2	2483.590	27.60	5.88	33.48	54.00	-20.52	Horizontal
3	2395.192	30.48	2.66	33.14	54.00	-20.86	Vertical
4	2483.590	28.80	5.88	34.68	54.00	-19.32	Vertical

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