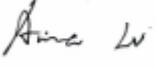
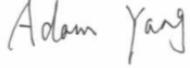
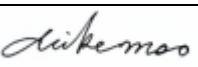


FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT
For
Robstep Robot Co.,Ltd. DongGuan
Tech-Road.9-1, High-tech industrial park, Songshan Lake, DongGuan, China

FCC ID: ZO4M1S-ROBSTEP

December 19, 2012

This Report Concerns: Original Report	Equipment Type: Robstep
Test Engineer: Anna Lv	
Test Engineer of performing the tests: Adam Yang	
Report No.: BST12111020Y-1E-3	
Receive EUT Date/Test Date: December 11, 2012 / December 12-18, 2012	
Reviewed By: Mike Moo	
Prepared By: Shenzhen BST Technology Co.,Ltd. 3F,Weames Technology Building, No. 10 Kefa Road, Science Park, Nanshan District,Shenzhen,Guangdong,China Tel: 0755-26747751-3 Fax: 0755-26747751-3 ext.826	

Note: The test report is specially limited to the above company and this particular sample only.
It may not be duplicated without prior written consent of Shenzhen BST Technology Co.,Ltd.
This report must not be used by the client to claim product certification,approval,or
endorsement by NVLAP, NIST or any agency of the US Government.

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1. GENERAL INFORMATION

1.1. Report information

1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of

Shenzhen Certification Technology Service Co., Ltd

(FCC Registered Test Site Number: 197647) on

2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road,
Bao'an District, shenzhen 518126, China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.50dB
Uncertainty for Radiation Emission test (30MHz to 1GHz)	3.04 dB (Polarize: V)
	3.02 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz to 25GHz)	3.84dB (Polarize: H)
	3.56dB (Polarize: V)
Uncertainty for radio frequency	1×10^{-9}
Uncertainty for test site temperature and humidity	0.6 °C
	3%

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : Robstep

Applicant : Robstep Robot Co.,Ltd. DongGuan
Tech-Road.9-1, High-tech industrial park, Songshan Lake,
DongGuan, China

Manufacturer : Robstep Robot Co.,Ltd. DongGuan
Tech-Road.9-1, High-tech industrial park, Songshan Lake,
DongGuan, China

Model Number : M1S

Trade Name : N/A

Modulation type : GFSK

Frequency : 2402-2480MHz (Step 1MHz)

Number of Channels : 79 Channels

Power Supply : DC 48V (Li-ion battery or Powered by AC 120V/60Hz Adapter)

2.2. Block Diagram of EUT Configuration

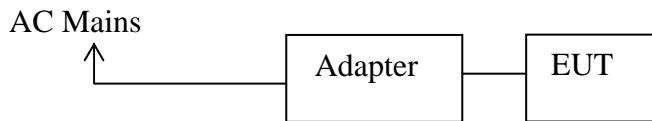


Figure 1 EUT Setup

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used “Yes/No”
Adapter Input: AC 100-240V, 50/60Hz, 2.5A Output: DC 48V, 2.0A	GM150-4800200	--	Robstep Robot Co.,Ltd. DongGuan	Yes

2.4. Test Conditions

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-25
Humidity (%RH)	25-75	50-63
Barometric pressure (mbar)	860-1060	950-1000

3. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.249

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.249(a)	The fundamental field strength and the harmonics	Compliant
Section 15.209 Section 15.249(d)	Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: "N/A" means "Not applicable".

Statement: All testing was performed using the test procedures found in ANSI C63.4-2003.

Modifications

No modification was made.

4. TEST EQUIPMENT USED

EQUIPMENT/FACILITIES	MANUFACTURER	MODEL	SERIAL NO.	DATE OF CAL.	CAL. INTERVAL
3m Semi-Anechoic Chamber	Changzhou Chengyu	EC3048	N/A	May 5, 2012	1 Year
Broadband antenna	SCHWARZBECK	VULB 9168	VULB916 8-438	Aug. 14, 2012	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	1201	Sept. 28, 2012	1 Year
Horn antenna	R&S	HF906	10027	Aug. 14, 2012	1 Year
ETS Horn Antenna	ETS	3160	SEL0076	May 8, 2012	1 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	Apr. 6, 2012	1 Year
Spectrum analyzer	Agilent	E4443A	MY461856 49	Apr. 6, 2012	1 Year
Spectrum analyzer	Agilent	E4440A	MY461873 35	Apr. 6, 2012	1 Year
Spectrum analyzer	Agilent	E4446A	MY453001 03	Apr. 6, 2012	1 Year
Test receiver	R&S	ESCI	100492	Apr. 6, 2012	1 Year
Test receiver	R&S	ESCI	101202	Apr. 6, 2012	1 Year
L.I.S.N.	SCHWARZBECK	NSLK8126	8126466	Apr. 6, 2012	1 Year
L.I.S.N.	SCHWARZBECK	NSLK8126	8126487	Apr. 6, 2012	1 Year
Cable	Resenberger	N/A	NO.1	Apr. 6, 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Apr. 6, 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Apr. 6, 2012	1 Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	Apr. 6, 2012	1 Year
Pre-amplifier	R&S	AFS33-18002 650-30-8P-44	SEL0080	Apr. 6, 2012	1 Year

5. ANTENNA REQUIREMENT

5.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2. Antenna Connected Construction

According to § 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna used in this product is PCB antenna. The antenna is permanently attached. Refer to the product photo.

5.3. Result

Compliance

6. CONDUCTED POWER LINE TEST

6.1. Test Equipment

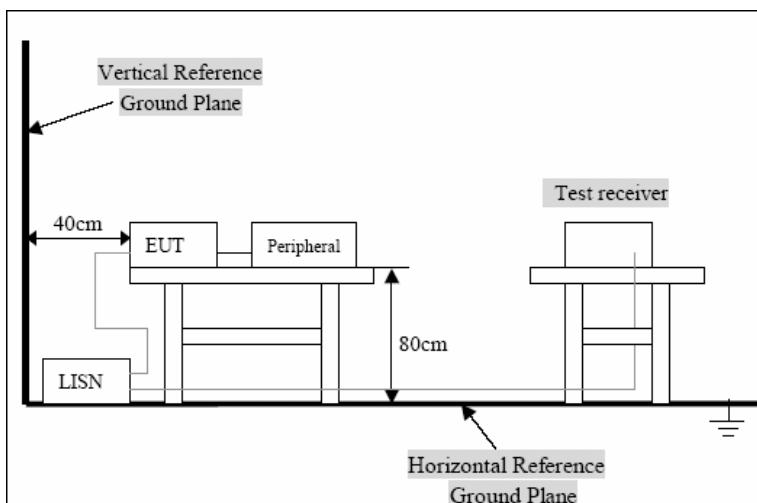
Please refer to section 4 this report.

6.2. 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 50ohm/50uh coupling impedance for the measuring equipment.The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uh coupling impedance with 50ohm termination.

Both sides of A.C. Line are check 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 according to ASIN C63.4:2003 on conducted measurement .Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

6.3. Test Setup



For the actual test configuration,Please refer to the related items-Photos of testing

6.4. Conducted Power line Emission Limits

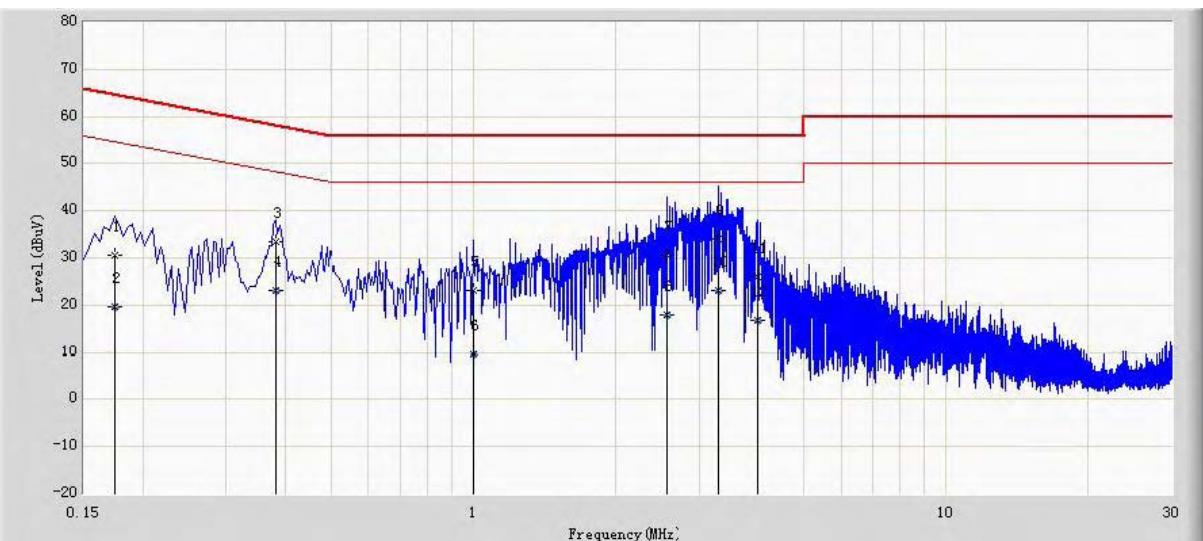
FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHZ)	Class A QP/AV	Class B QP/AV
0.15-0.5	79/66	65-56/56-46
0.5-5.0	73/60	56-46
5.0-3.0	73/60	60-50

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

6.5. Conducted Power Line Test Result

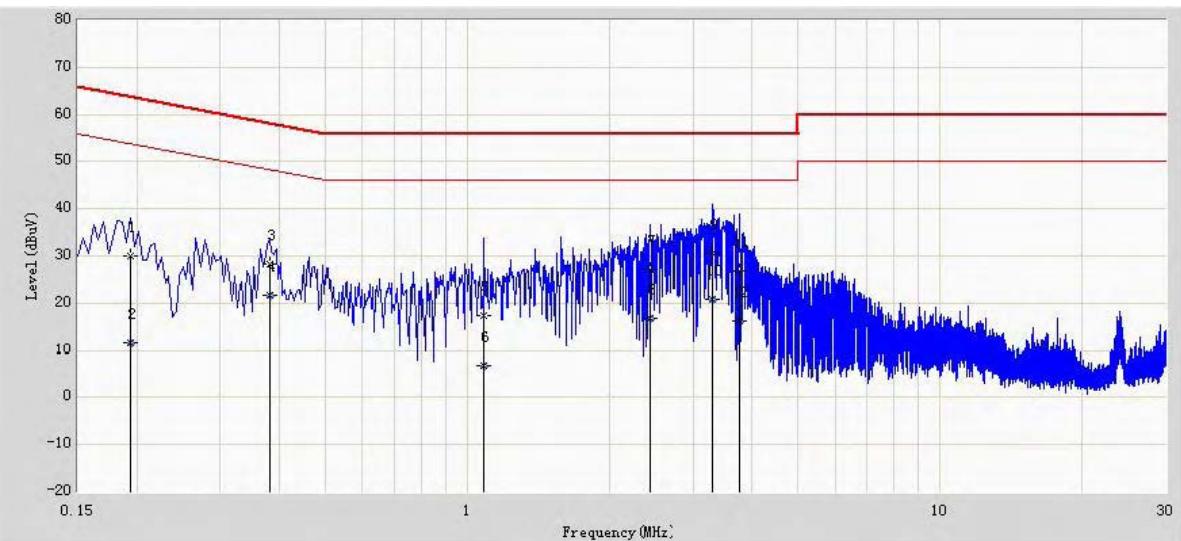
Pass.

L Line



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.174	30.463	20.610	-34.304	64.767	9.853	QP
2		0.174	19.569	9.716	-35.199	54.767	9.853	AV
3		0.382	33.575	23.690	-24.661	58.236	9.885	QP
4		0.382	23.199	13.315	-25.036	48.236	9.885	AV
5		0.998	23.093	13.283	-32.907	56.000	9.810	QP
6		0.998	9.710	-0.100	-36.290	46.000	9.810	AV
7		2.570	30.503	20.701	-25.497	56.000	9.802	QP
8		2.570	17.965	8.163	-28.035	46.000	9.802	AV
9	*	3.302	33.892	24.068	-22.108	56.000	9.824	QP
10		3.302	23.001	13.177	-22.999	46.000	9.824	AV
11		4.002	25.884	16.047	-30.116	56.000	9.837	QP
12		4.002	16.683	6.846	-29.317	46.000	9.837	AV

N Line



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.194	30.014	20.090	-33.850	63.864	9.924	QP
2		0.194	11.643	1.719	-42.221	53.864	9.924	AV
3		0.382	28.257	18.266	-29.979	58.236	9.991	QP
4		0.382	21.567	11.576	-26.669	48.236	9.991	AV
5		1.086	17.277	7.247	-38.723	56.000	10.030	QP
6		1.086	6.780	-3.251	-39.220	46.000	10.030	AV
7		2.430	27.057	17.084	-28.943	56.000	9.973	QP
8		2.430	16.725	6.752	-29.275	46.000	9.973	AV
9		3.306	30.628	20.609	-25.372	56.000	10.019	QP
10	*	3.306	20.788	10.769	-25.212	46.000	10.019	AV
11		3.762	26.891	16.848	-29.109	56.000	10.043	QP
12		3.762	16.212	6.168	-29.788	46.000	10.043	AV

7. RADIATED EMISSION TEST

7.1. Test Equipment

Please refer to section 4 this report.

7.2. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level.

Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz, and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

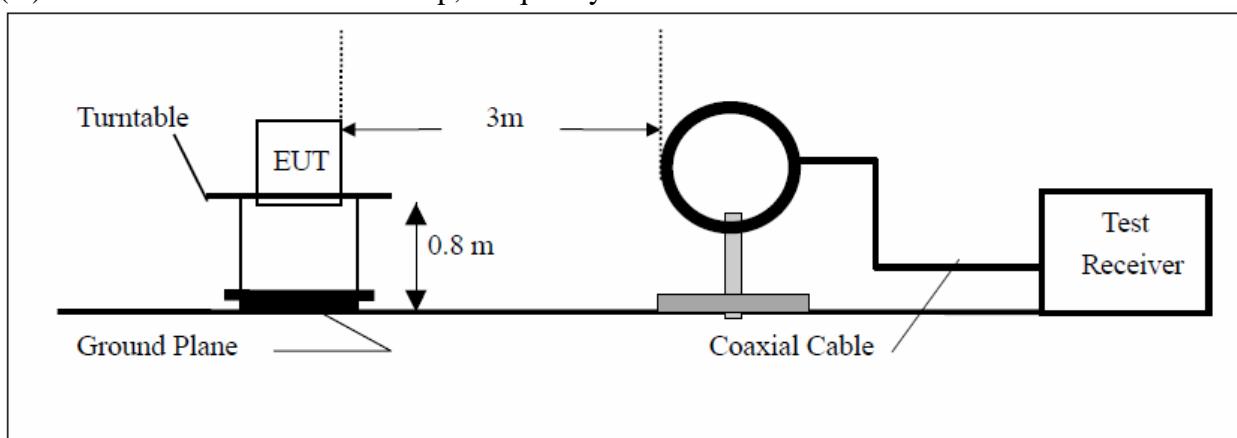
The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

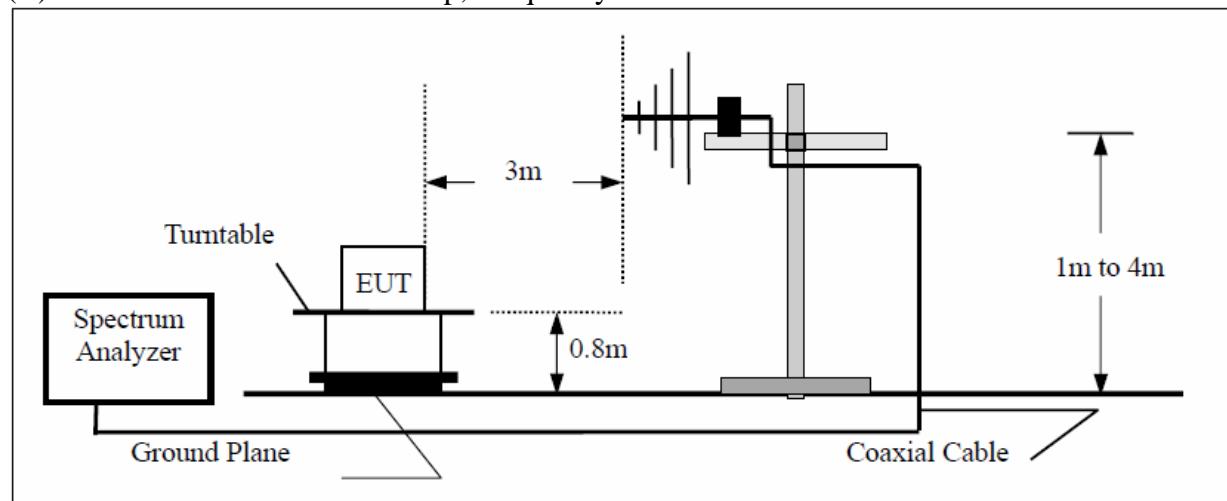
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit.

7.3. Radiated Test Setup

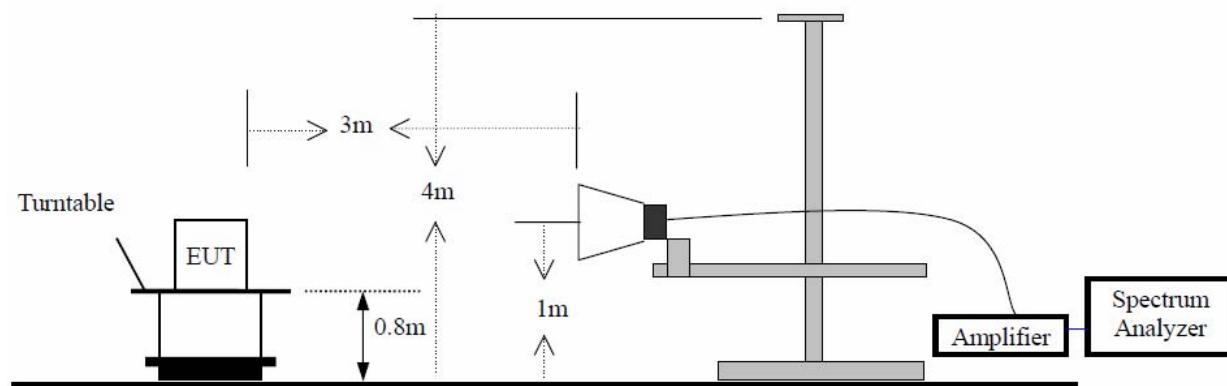
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.4. Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

A. Fundamental and Harmonics Radiated Emissions 15.249(a) Limit

Fundamental Frequency (MHZ)	Field as strength of Fundamental(3m)			Field as strength of Harmonics(3m)		
	mV/m	dBuV/m		uV/m	dBuV/m	
902-928	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)
2400-2483.5	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(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.

(3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Spurious Radiated Emissions.

Frequency (MHz)	Limit				The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mentioned above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)	Measurement distance (m)		
0.009 - 0.490	2400/F(kHz)	/	300		
0.490 - 1.705	24000/F(kHz)	/	30		
1.705-30	30	29.5	30		
30 - 88	100	40	3		
88 - 216	150	43.5	3		
216 - 960	200	46	3		
Above 960	500	54	3		

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(2) In the Above Table, the tighter limit applies at the band edges.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7.5. Radiated Emission Test Result

Pass

A. Fundamental Radiated Emissions Data

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2402	79.39/92.61	VERT	94/114	-14.61/-21.39
2402	83.22/98.08	HORIZ	94/114	-10.78/-15.92

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2441	77.06/90.37	VERT	94/114	-16.94/-23.63
2441	83.68/98.25	HORIZ	94/114	-10.32/-15.75

CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2480	75.80/88.74	VERT	94/114	-18.20/-25.26
2480	84.06/98.64	HORIZ	94/114	-9.94/-15.36

B. Harmonics Radiated Emissions Data

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4804.0	40.22/52.16	VERT	54.0/74.0	-13.78/-21.84
7206.0	-/47.05		54.0/74.0	-/-26.95
9608.0	-/48.22		54.0/74.0	-/-25.78
4804.0	42.08/53.85	HORIZ	54.0/74.0	-11.20/-20.15
7206.0	-/47.04		54.0/74.0	-/-26.96
9608.0	-/47.69		54.0/74.0	-/-26.31

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4882.0	43.37/54.77	VERT	54.0/74.0	-10.63/-19.23
7323.0	-/47.20		54.0/74.0	-/-26.80
9764.0	-/48.24		54.0/74.0	-/-25.76
4882.0	40.13/50.62	HORIZ	54.0/74.0	-13.87/-23.38
7323.0	-/47.06		54.0/74.0	-/-26.94
9764.0	-/47.18		54.0/74.0	-/-26.82

CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4960.0	45.52/56.39	VERT	54.0/74.0	-8.48/-17.61
7440.0	-/47.79		54.0/74.0	-/-26.21
9920.0	-/48.86		54.0/74.0	-/-25.14
4960.0	38.46/49.54	HORIZ	54.0/74.0	-15.54/-24.46
7440.0	-/48.17		54.0/74.0	-/-25.83
9920.0	-/47.11		54.0/74.0	-/-26.89

Note:

1. The average measurement was not performed when the peak measured data under the limit of average detection.
2. Emissions attenuated more than 20 dB below the permissible value are not reported.

C. General Radiated Emissions Data

For below 9kHz-30MHz Spurious

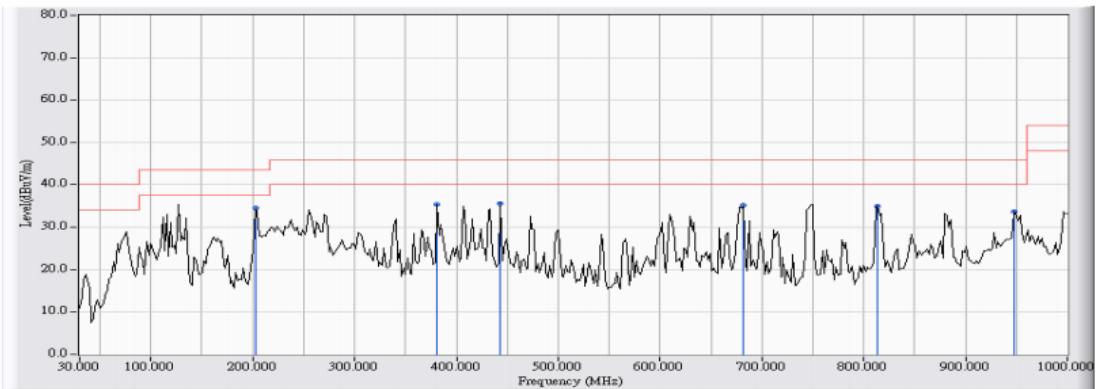
Freq. (MHz)	Emission(dBuV/m)	HORIZ/ VERT	Limits(dBuV/m)	Margin (dB)
-	-	VERT	-	-
-	-	HORIZ	-	-

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

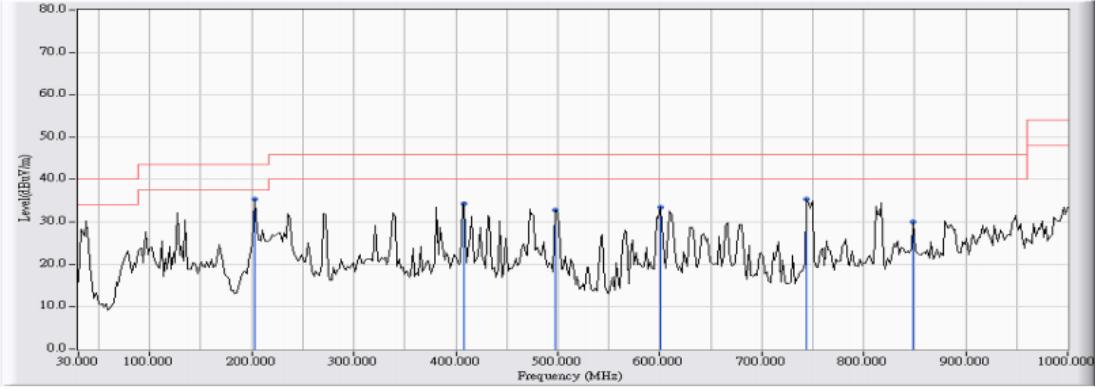
For 30M-1000MHz Spurious

Horizontal



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1 *	202.660	-18.926	53.475	34.549	-8.951	43.500	QUASIPEAK
2	381.140	-10.293	45.670	35.376	-10.624	46.000	QUASIPEAK
3	443.220	-6.701	42.240	35.540	-10.460	46.000	QUASIPEAK
4	681.840	-2.446	37.637	35.191	-10.809	46.000	QUASIPEAK
5	813.760	-5.655	40.533	34.878	-11.122	46.000	QUASIPEAK
6	947.620	1.993	31.785	33.778	-12.222	46.000	QUASIPEAK

Vertical



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1 *	202.660	-20.678	56.079	35.401	-8.099	43.500	QUASIPEAK
2	408.300	-6.616	40.920	34.304	-11.696	46.000	QUASIPEAK
3	497.540	-6.387	39.128	32.740	-13.260	46.000	QUASIPEAK
4	600.360	-2.817	36.246	33.429	-12.571	46.000	QUASIPEAK
5	743.920	-5.400	40.819	35.418	-10.582	46.000	QUASIPEAK
6	848.680	-2.198	32.304	30.106	-15.894	46.000	QUASIPEAK

For above 1000MHz Spurious

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
-	-	VERT	-	-
-	-	HORIZ	-	-

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

8. BAND EDGE

8.1. Test Equipment

Please refer to Section 4 this report.

8.2. 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 according to ANSI C63.4: 2003 on radiated measurement. The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz respectively.

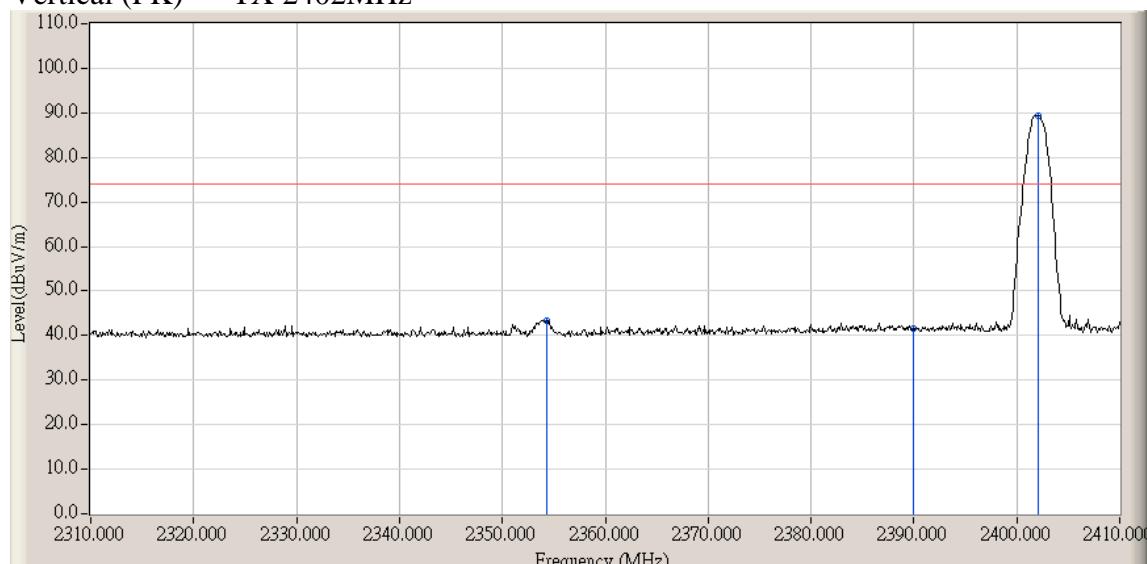
8.3. Band Edge FCC 15.249(d) Limit

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.

8.4. Band Edge Test Result

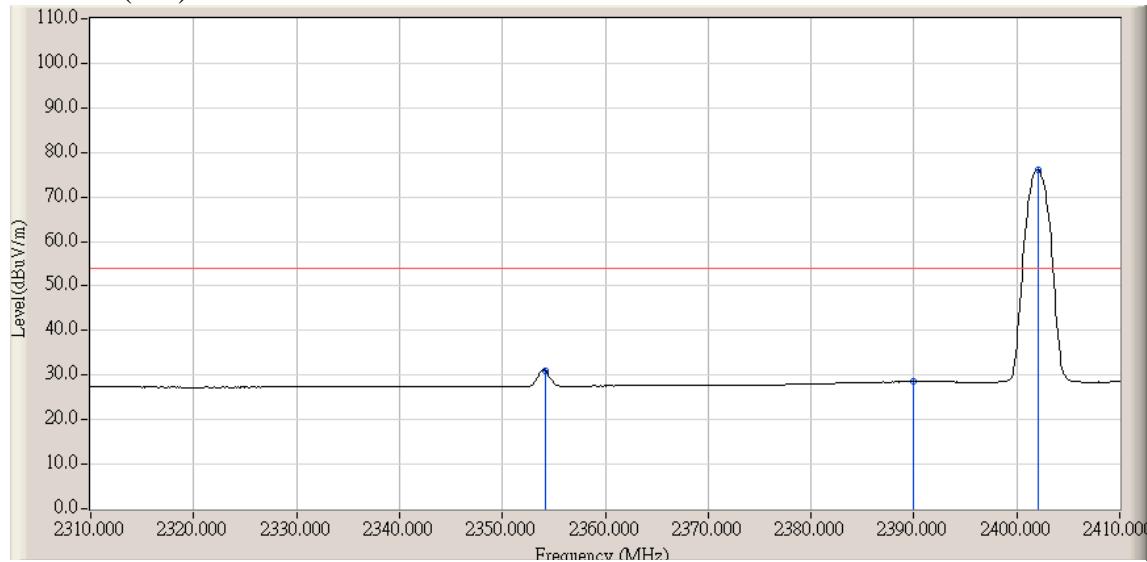
Pass

Vertical (PK) TX 2402MHz



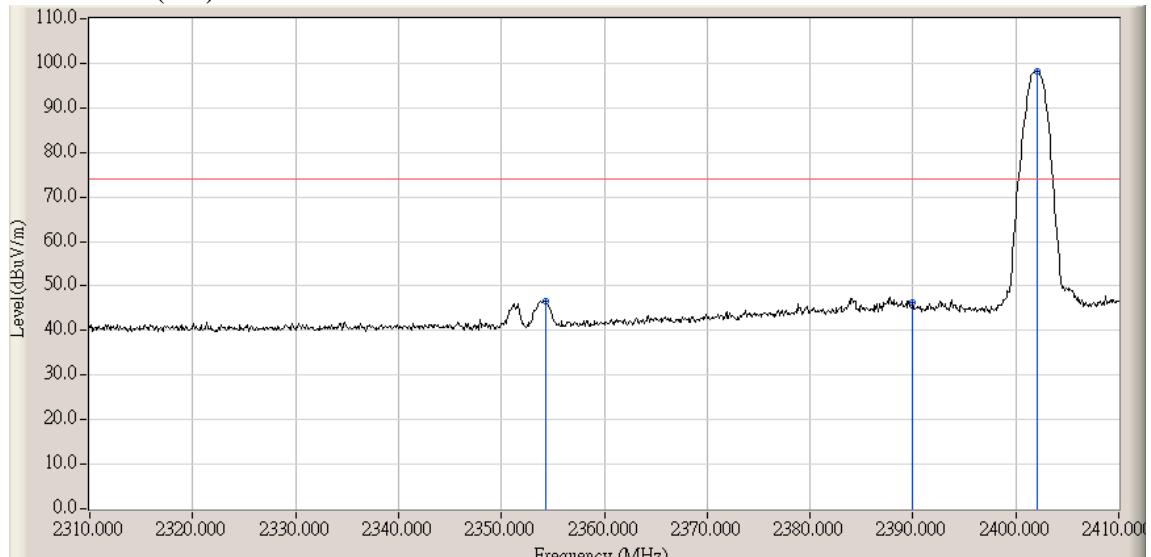
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2354.300	-3.287	46.697	43.410	-30.560	73.970	PEAK
2	2390.000	-3.202	44.661	41.459	-32.511	73.970	PEAK
3	2402.100	-3.199	92.610	89.410	N/A	N/A	PEAK

Vertical (AV) TX 2402MHz



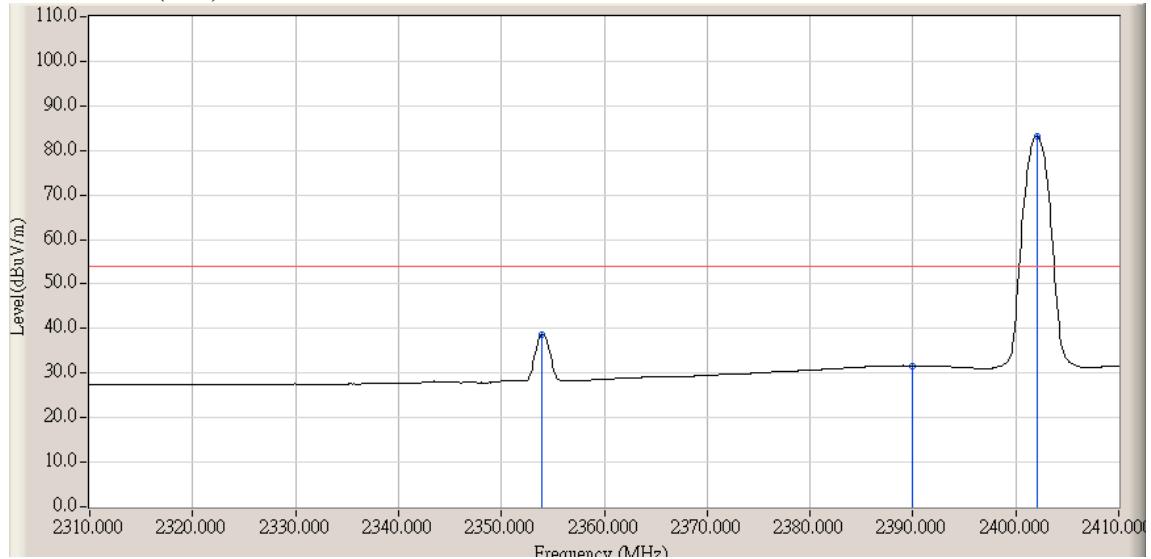
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2354.200	-3.287	34.390	31.103	-22.867	53.970	AVERAGE
2	2390.000	-3.202	31.747	28.545	-25.425	53.970	AVERAGE
3	2402.100	-3.199	79.386	76.186	N/A	N/A	AVERAGE

Horizontal (PK) TX 2402MHz



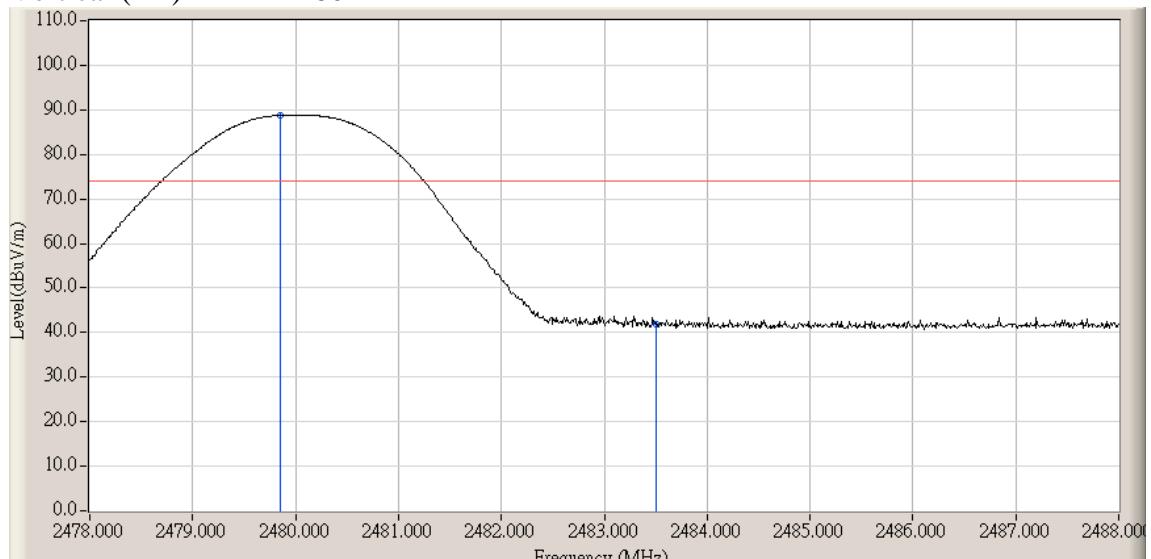
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2354.300	-3.287	49.987	46.700	-27.270	73.970	PEAK
2	2390.000	-3.202	49.422	46.220	-27.750	73.970	PEAK
3 *	2402.100	-3.199	101.283	98.083	N/A	N/A	PEAK

Horizontal (AV) TX 2402MHz



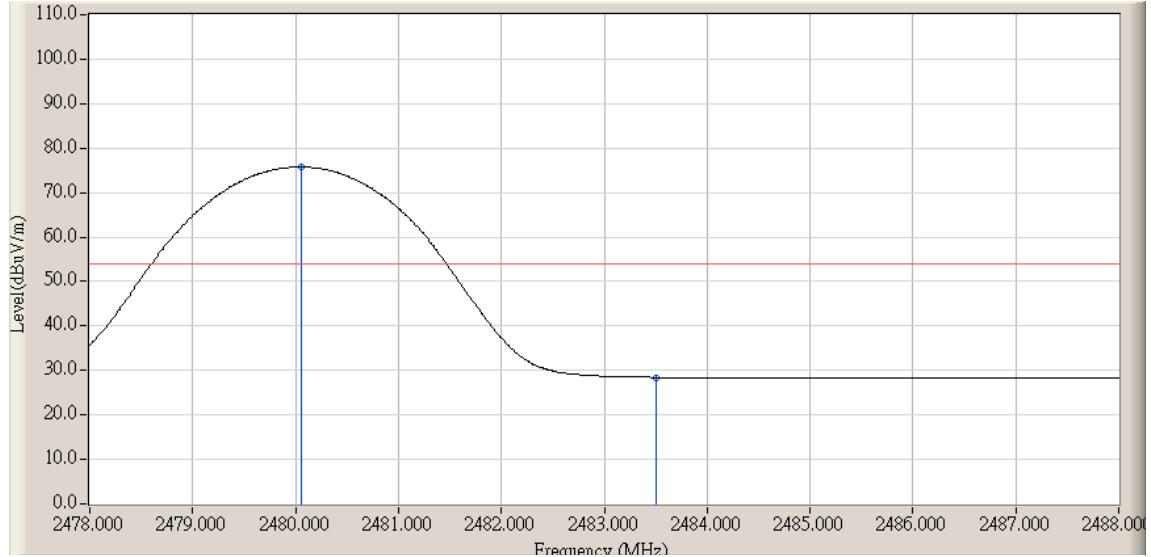
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2353.900	-3.287	41.879	38.592	-15.378	53.970	AVERAGE
2	2390.000	-3.202	34.846	31.644	-22.326	53.970	AVERAGE
3 *	2402.100	-3.199	86.420	83.220	N/A	N/A	AVERAGE

Vertical (PK) TX 2480MHz



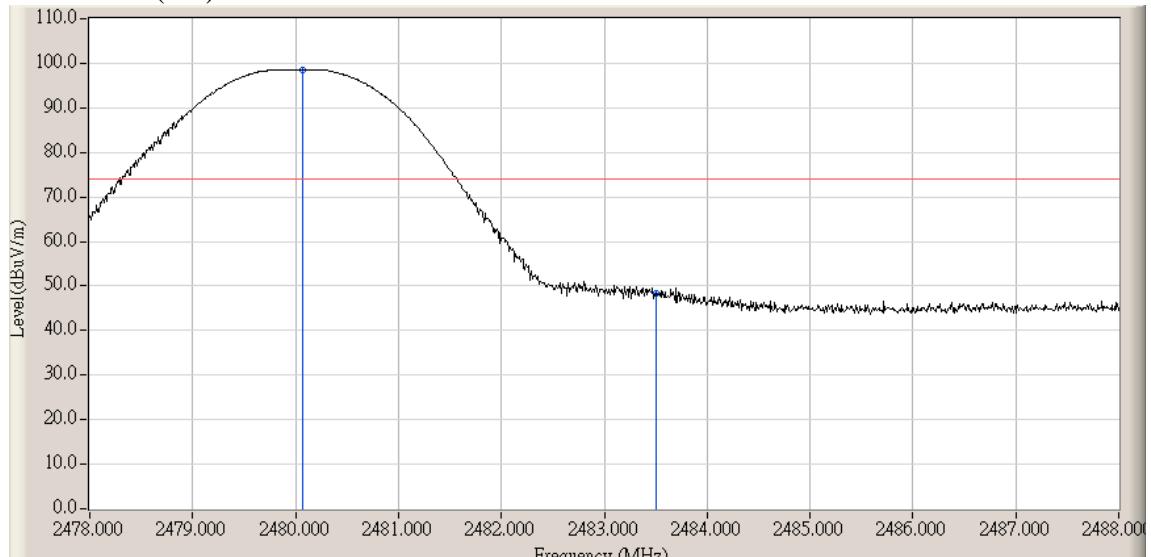
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1 *	2479.850	-3.187	91.923	88.736	N/A	N/A	PEAK
2	2483.500	-3.177	45.019	41.842	-32.128	73.970	PEAK

Vertical (AV) TX 2480MHz



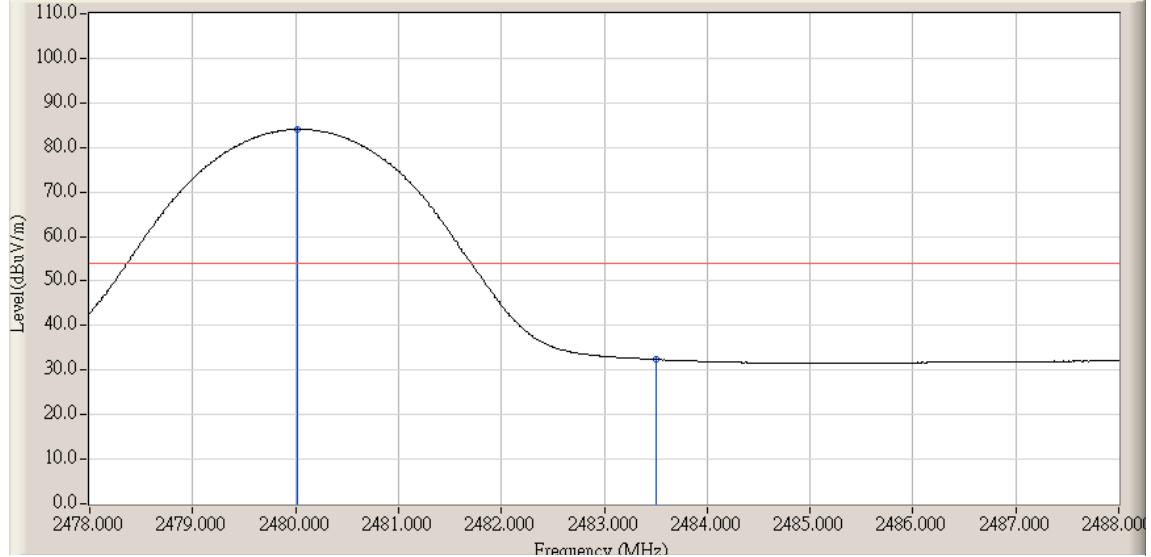
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1 *	2480.050	-3.187	78.987	75.800	N/A	N/A	AVERAGE
2	2483.500	-3.177	31.616	28.439	-25.531	53.970	AVERAGE

Horizontal (PK) TX 2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2480.070	-3.187	101.827	98.640	N/A	N/A	PEAK
2	2483.500	-3.177	51.589	48.412	-25.558	73.970	PEAK

Horizontal (AV) TX 2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2480.020	-3.187	87.248	84.061	N/A	N/A	AVERAGE
2	2483.500	-3.177	35.553	32.376	-21.594	53.970	AVERAGE