

FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT
For
KOLMON INDUSTRIAL CO., LTD
15 Floor, Flat B, Win Sin Ind. Bldg., 2 San Hop Lane, Tuen Mun., N.T., Hong Kong

FCC ID: PQ2-802507

August 30, 2012

This Report Concerns: Original Report	Equipment Type: Brookstone Universal Tablet Station
Test Engineer: Eric Li	
Test Engineer of performing the tests: Adam Yang	
Report No.: BST12081034Y-1ER-3	
Receive EUT Date/Test Date: August 24, 2012/ August 25-29, 2012	
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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

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : Brookstone Universal Tablet Station

Applicant : KOLMON INDUSTRIAL CO., LTD
15 Floor, Flat B, Win Sin Ind. Bldg., 2 San Hop Lane, Tuen Mun., N.T., Hong Kong

Manufacturer : KOLMON INDUSTRIAL CO., LTD
15 Floor, Flat B, Win Sin Ind. Bldg., 2 San Hop Lane, Tuen Mun., N.T., Hong Kong

Model Number : 802507

Trade Name : N/A

Frequency : 2402-2480MHz

Power Supply : DC 3.7V Li-ion Battery or DC 5V charging

Adapter : Model: TL02-050220U
Input: AC 100-240V, 50/60Hz, 0.32A MAX
Output: DC 5V, 2200mA

2.2. Block Diagram of EUT Configuration



Figure 1 EUT Setup of TX mode

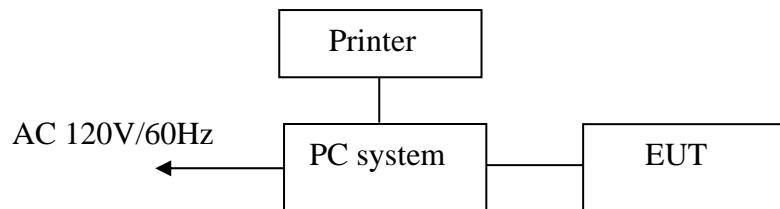


Figure 2 EUT Setup of Charging (Connect to PC) mode

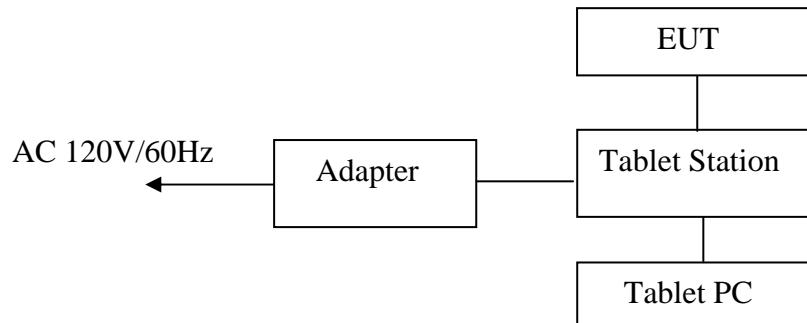


Figure 3 EUT Setup of Charging (Connect to Adapter) mode

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used “✓”
PC system	AM1830	N/A	Acer	✓
Printer	HP1020	N/A	HP	✓
Tablet PC	ME12-7003	N/A	YuanFeng	✓

2.4. Test Conditions

Temperature: 20~25°C

Relative Humidity: 50~63 %

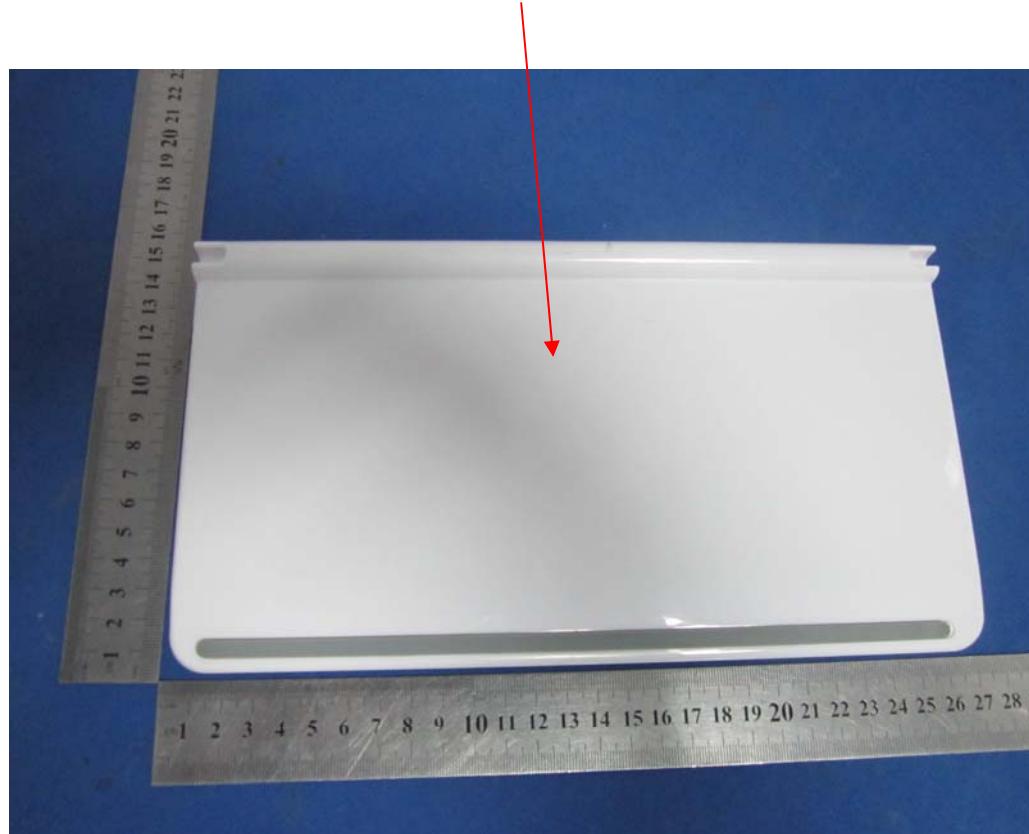
3. FCC ID LABEL

FCC ID: PQ2-802507

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Label Location on EUT

EUT View/ FCC ID Label Location



4. 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.

5. 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	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
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	AFS33-1800 2650-30-8P-44	SEL0080	Apr. 6, 2012	1 Year

6. ANTENNA REQUIREMENT

6.1. 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.

6.2. 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.

6.3. Result

Compliance

7. CONDUCTED POWER LINE TEST

7.1. Test Equipment

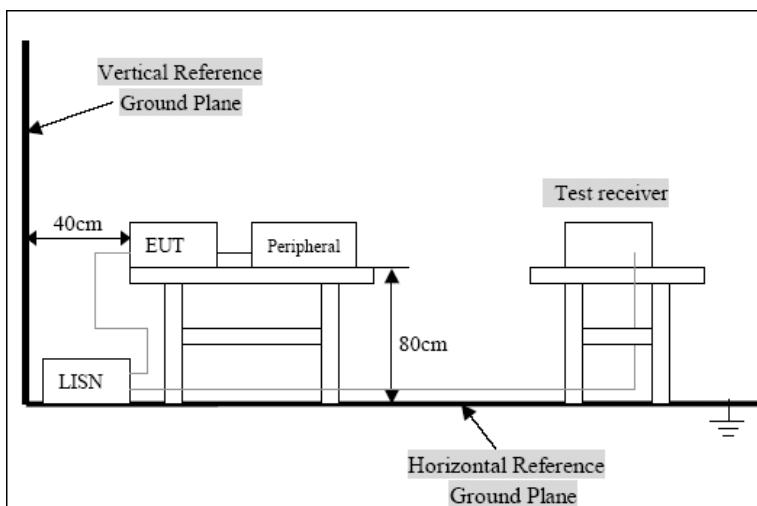
Please refer to section 5 this report.

7.2. 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 al 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 30MH z using a receiver bandwidth of 9Khz.

7.3. Test Setup



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

7.4. 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

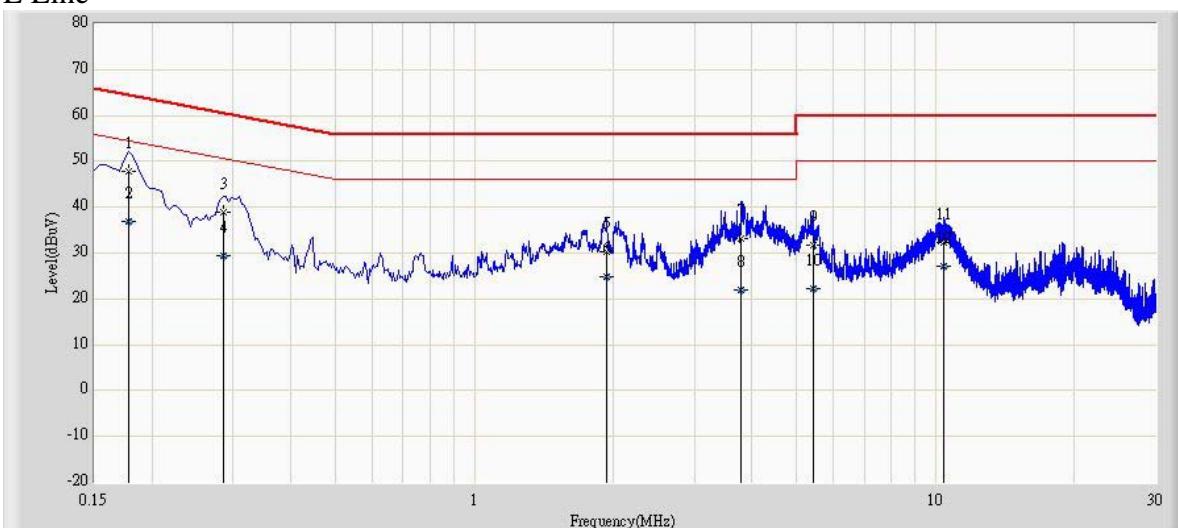
Note: In the above table, the tighter limit applies at the band edges.

7.5. Conducted Power Line Test Result

Pass.

Date of Test:	August 27, 2012	Temperature:	24°C
EUT:	Brookstone Universal Tablet Station	Humidity:	55%
Model No.:	802507	Power Supply:	DC 5V power by Adapter Adapter power: AC120V/60Hz
Test Mode:	Charging (Connect to Adapter)	Test Engineer:	Eric Li

L Line

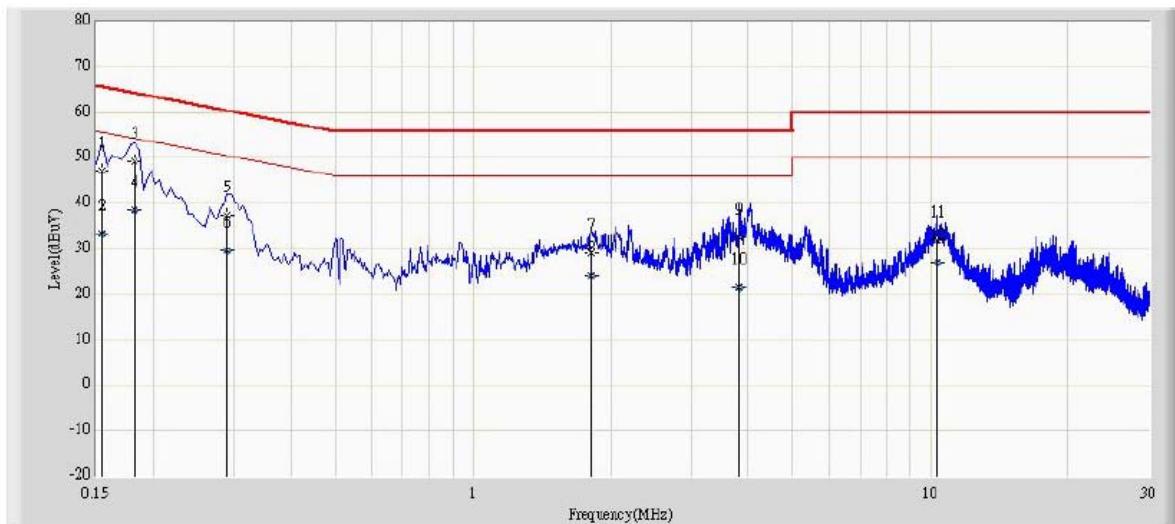


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.178	47.679	38.052	-16.900	64.578	9.567	0.060	0.000	QP
2		0.178	36.950	27.322	-17.629	54.578	9.567	0.060	0.000	AV
3		0.286	38.892	29.212	-21.748	60.640	9.620	0.060	0.000	QP
4		0.286	29.413	19.733	-21.226	50.640	9.620	0.060	0.000	AV
5		1.934	30.392	20.664	-25.608	56.000	9.628	0.100	0.000	QP
6		1.934	24.698	14.970	-21.302	46.000	9.628	0.100	0.000	AV
7		3.794	33.135	23.347	-22.865	56.000	9.648	0.140	0.000	QP
8		3.794	22.015	12.227	-23.985	46.000	9.648	0.140	0.000	AV
9		5.414	31.762	21.927	-28.238	60.000	9.664	0.170	0.000	QP
10		5.414	22.287	12.453	-27.713	50.000	9.664	0.170	0.000	AV
11		10.442	32.280	22.309	-27.720	60.000	9.701	0.270	0.000	QP
12		10.442	27.130	17.159	-22.870	50.000	9.701	0.270	0.000	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

N Line



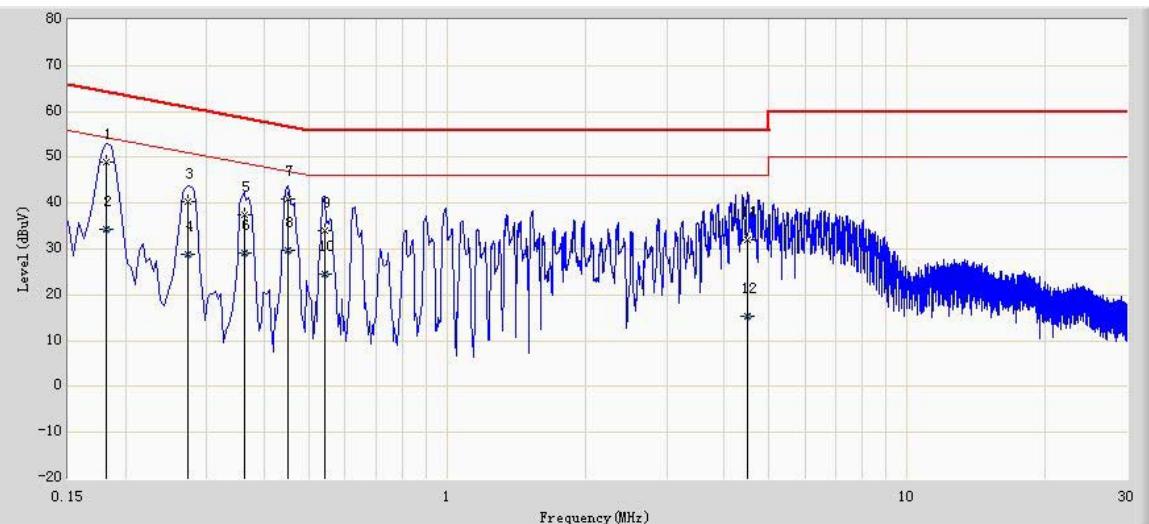
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	47.317	37.573	-18.464	65.781	9.684	0.060	0.000	QP
2		0.154	33.521	23.777	-22.260	55.781	9.684	0.060	0.000	AV
3	*	0.182	49.182	39.489	-15.212	64.394	9.633	0.060	0.000	QP
4		0.182	38.608	28.915	-15.786	54.394	9.633	0.060	0.000	AV
5		0.290	37.470	27.817	-23.055	60.524	9.593	0.060	0.000	QP
6		0.290	29.794	20.141	-20.730	50.524	9.593	0.060	0.000	AV
7		1.814	29.090	19.368	-26.910	56.000	9.632	0.090	0.000	QP
8		1.814	24.136	14.414	-21.864	46.000	9.632	0.090	0.000	AV
9		3.818	32.563	22.775	-23.437	56.000	9.648	0.140	0.000	QP
10		3.818	21.570	11.782	-24.430	46.000	9.648	0.140	0.000	AV
11		10.354	32.120	22.114	-27.880	60.000	9.735	0.270	0.000	QP
12		10.354	27.069	17.064	-22.931	50.000	9.735	0.270	0.000	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Date of Test:	August 27, 2012	Temperature:	24°C
EUT:	Brookstone Universal Tablet Station	Humidity:	55%
Model No.:	802507	Power Supply:	DC 5V power by PC USB port PC power: AC120V/60Hz
Test Mode:	Charging (Connect to PC)	Test Engineer:	Eric Li

L Line

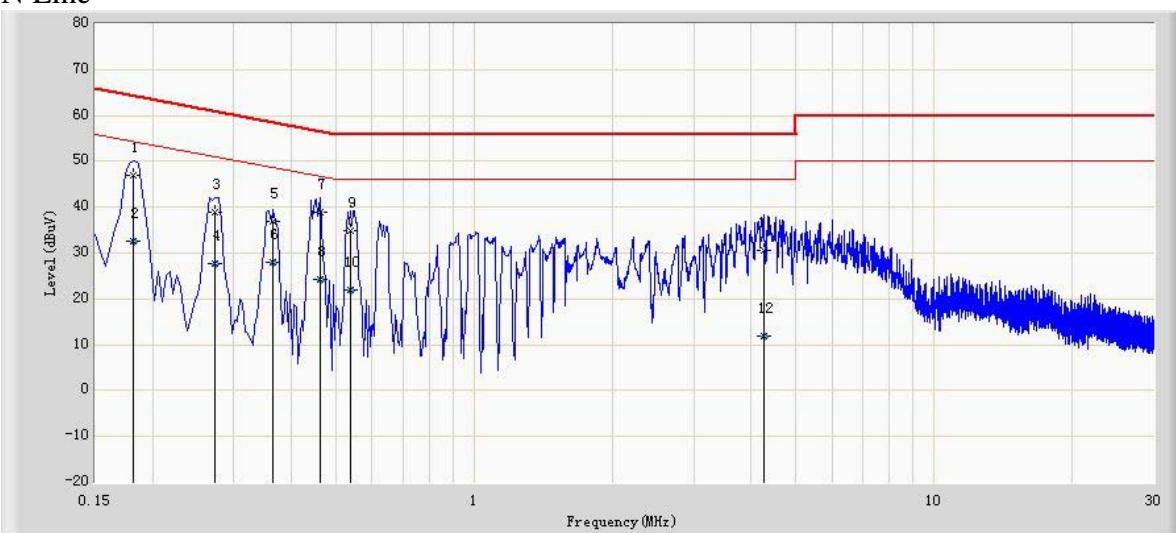


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.182	49.005	39.368	-15.389	64.394	9.637	QP
2		0.182	34.380	24.743	-20.014	54.394	9.637	AV
3		0.274	40.210	30.530	-20.785	60.996	9.680	QP
4		0.274	28.815	19.135	-22.180	50.996	9.680	AV
5		0.362	37.519	27.839	-21.164	58.682	9.680	QP
6		0.362	29.067	19.387	-19.615	48.682	9.680	AV
7		0.450	40.886	31.206	-15.989	56.875	9.680	QP
8		0.450	29.747	20.067	-17.128	46.875	9.680	AV
9		0.542	33.943	24.263	-22.057	56.000	9.680	QP
10		0.542	24.596	14.916	-21.404	46.000	9.680	AV
11		4.510	31.906	22.191	-24.094	56.000	9.715	QP
12		4.510	15.333	5.618	-30.667	46.000	9.715	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

N Line



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.182	47.073	37.380	-17.321	64.394	9.693	QP
2		0.182	32.640	22.947	-21.754	54.394	9.693	AV
3		0.274	39.050	29.398	-21.945	60.996	9.652	QP
4		0.274	27.758	18.106	-23.237	50.996	9.652	AV
5		0.366	36.928	27.273	-21.663	58.591	9.656	QP
6		0.366	28.025	18.369	-20.566	48.591	9.656	AV
7		0.462	39.001	29.343	-17.655	56.657	9.659	QP
8		0.462	24.131	14.472	-22.526	46.657	9.659	AV
9		0.538	34.992	25.328	-21.008	56.000	9.664	QP
10		0.538	21.977	12.313	-24.023	46.000	9.664	AV
11		4.254	30.450	20.737	-25.550	56.000	9.713	QP
12		4.254	11.829	2.116	-34.171	46.000	9.713	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

8. RADIATED EMISSION TEST

8.1. Test Equipment

Please refer to section 5 this report.

8.2. 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.

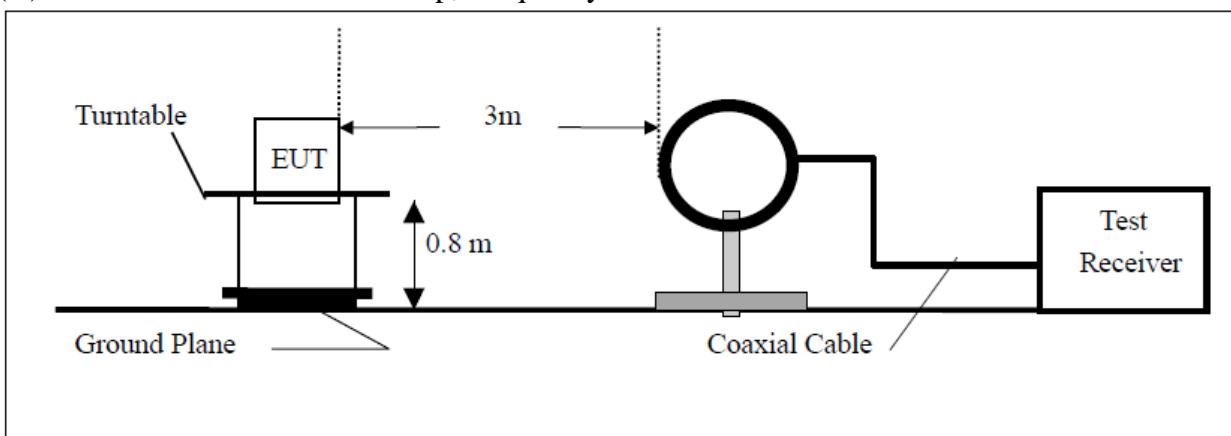
The frequency range from 9kHz to 25GHz is checked.

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.

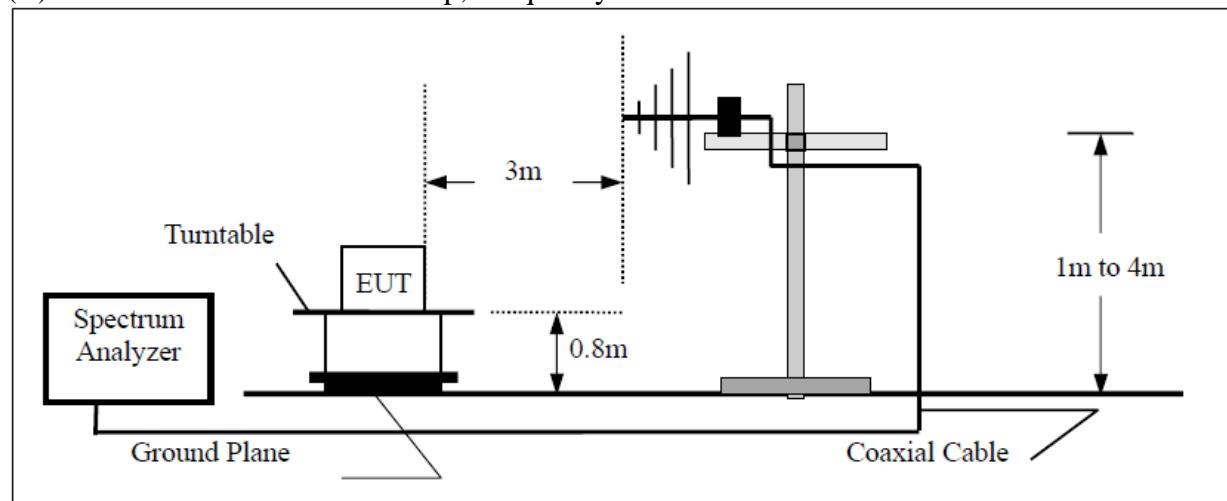
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit.

8.3. Radiated Test Setup

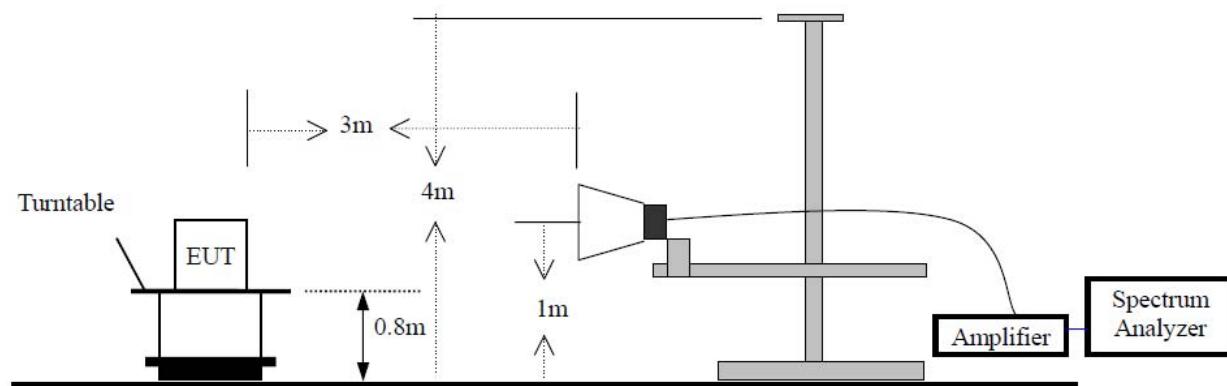
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



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



8.4. 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			
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)	Measurement distance (m)	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.
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.

8.5. 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	80.03/90.10	VERT	94/114	13.97/23.90
2402	83.12/94.14	HORIZ	94/114	10.88/19.86

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2441	80.27/90.64	VERT	94/114	13.73/23.36
2441	84.16/95.23	HORIZ	94/114	9.84/18.77

CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2480	80.51/91.55	VERT	94/114	13.49/22.45
2480	84.86/96.63	HORIZ	94/114	9.14/17.37

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	42.94/53.68	VERT	54.0/74.0	11.06/20.32
4804.0	45.71/56.72	HORIZ	54.0/74.0	8.29/17.28

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

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4882.0	43.22/54.05	VERT	54.0/74.0	10.78/19.95
4882.0	46.58/57.43	HORIZ	54.0/74.0	7.42/16.57

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

CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4960.0	43.68/54.49	VERT	54.0/74.0	10.32/19.51
4960.0	47.33/57.87	HORIZ	54.0/74.0	6.67/16.13

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

C. General Radiated Emissions Data

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

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

9. BAND EDGE

9.1. Test Equipment

Please refer to Section 5 this report.

9.2. 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.

9.3. Band Edge FCC 15.249(d) Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB below that in the 100kHz bandwidth within the band that contains the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.4. Band Edge Test Result

Pass

TX 2402MHz

Frequency (MHz)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	PEAK	AV	PEAK	AV	PEAK	AV	
2390.000	54.42	41.83	74	54	19.58	12.17	Vertical
2390.000	54.83	41.88	74	54	19.17	12.12	Horizontal

Note:

1. The average measurement was not performed when the peak measured data under the limit of average detection.

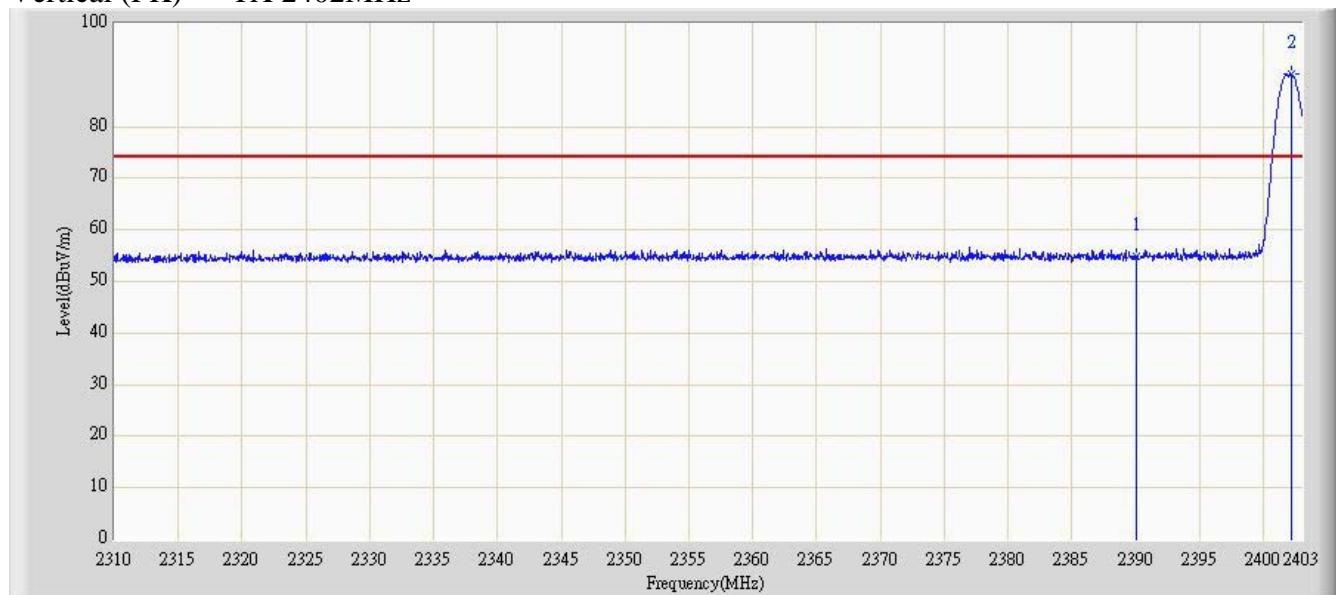
TX 2480MHz

Frequency (MHz)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	PEAK	AV	PEAK	AV	PEAK	AV	
2383.500	55.34	43.51	74	54	18.66	10.49	Vertical
2383.500	56.71	45.43	74	54	17.29	8.57	Horizontal

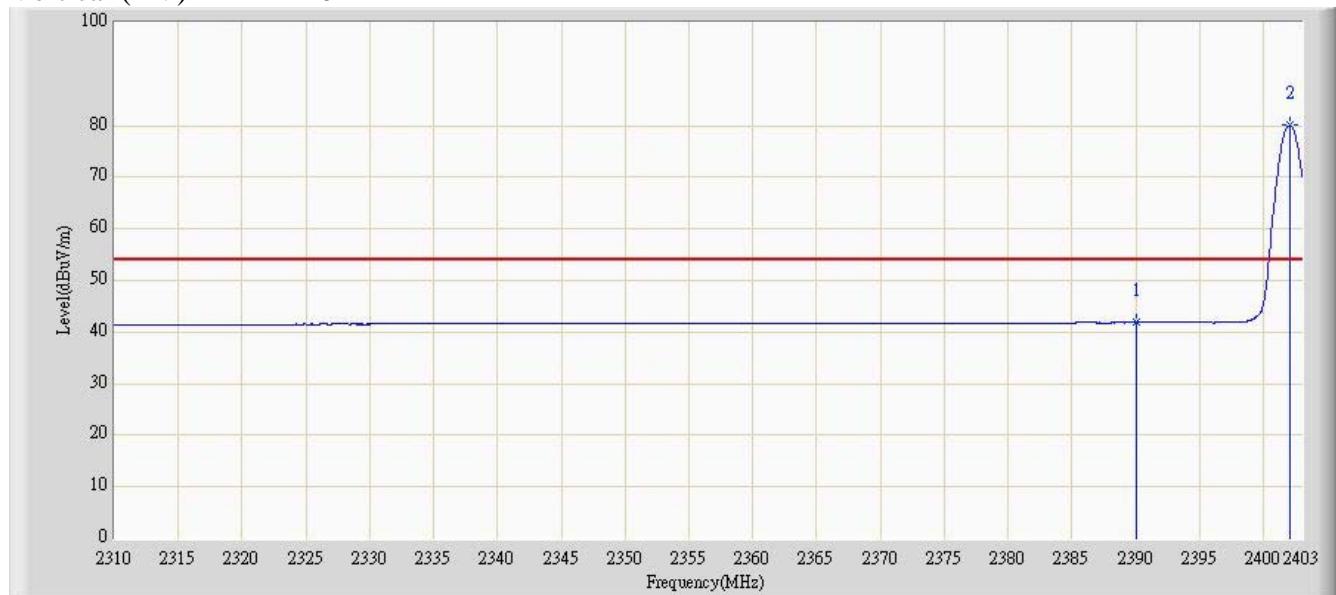
Note:

1. The average measurement was not performed when the peak measured data under the limit of average detection.

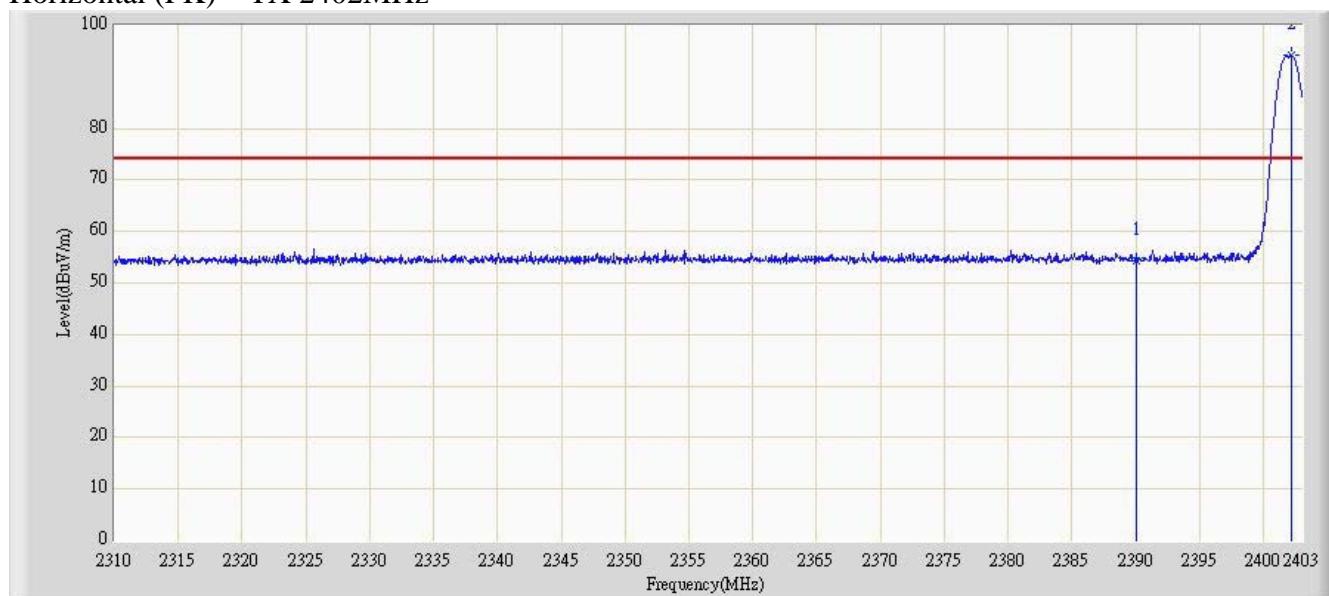
Vertical (PK) TX 2402MHz



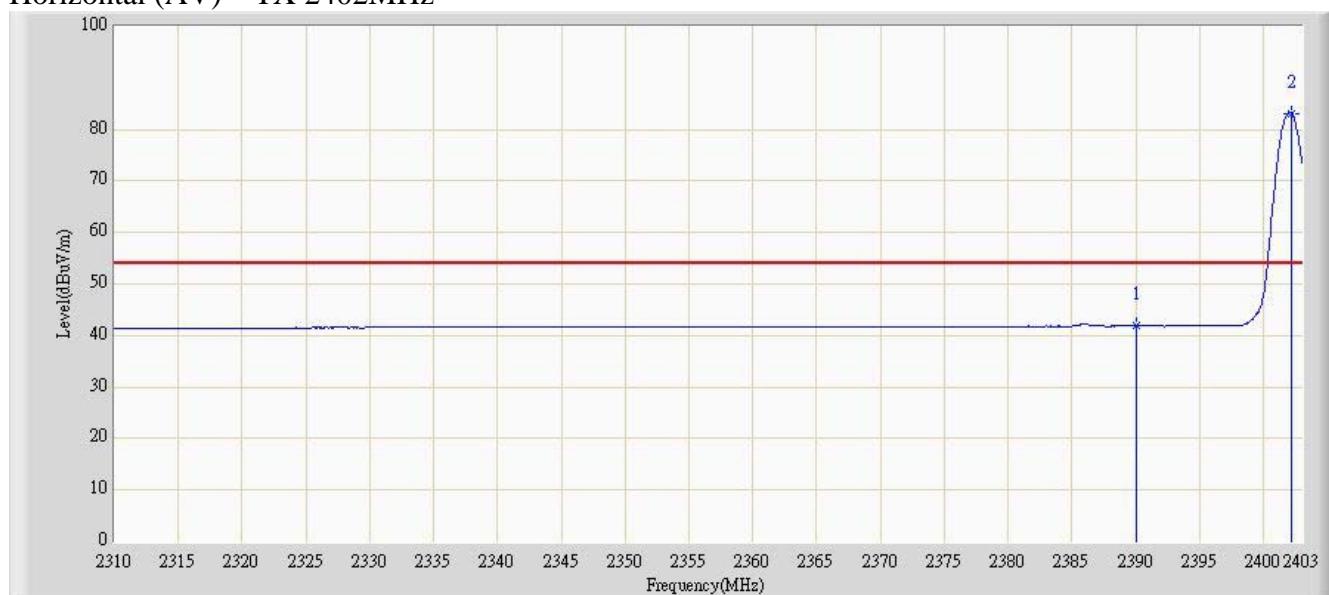
Vertical (AV) TX 2402MHz



Horizontal (PK) TX 2402MHz



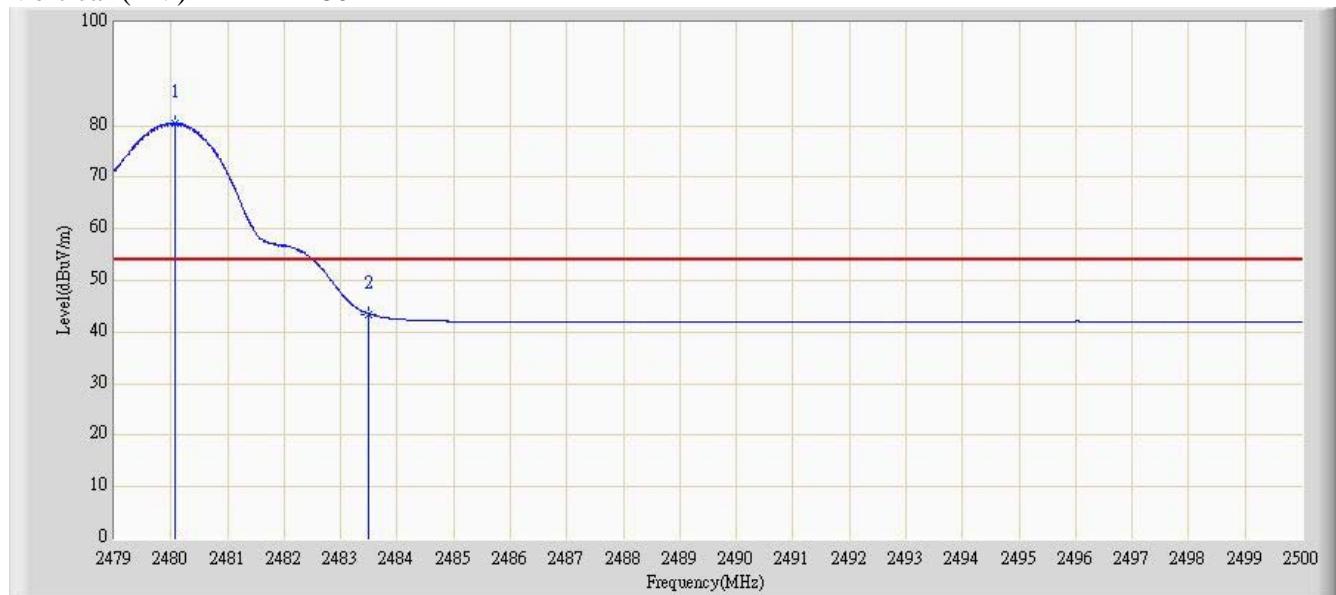
Horizontal (AV) TX 2402MHz



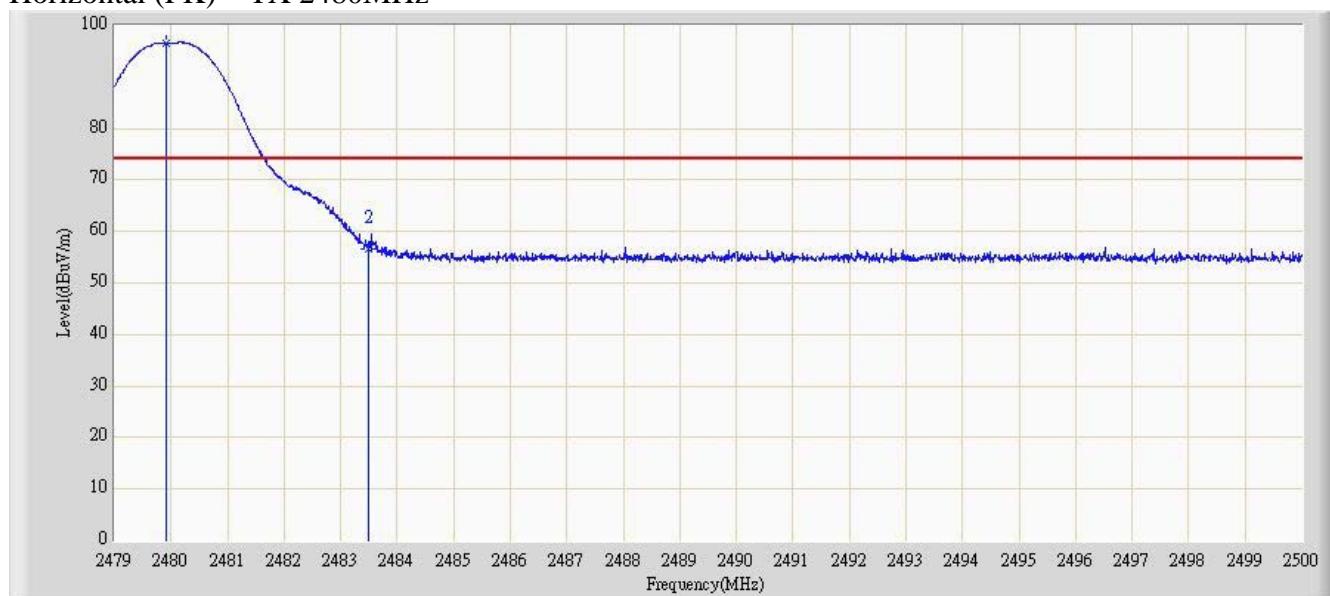
Vertical (PK) TX 2480MHz



Vertical (AV) TX 2480MHz



Horizontal (PK) TX 2480MHz



Horizontal (AV) TX 2480MHz

