

FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT

For

Shenzhen Junjiahao Technology Co., Ltd.

Building B, Block A, Phase 2, Fuyu Industrial Park, Dalang Street, Baoan District,
Shenzhen, China

FCC ID: PEUJH-MAUK2BT

August 21, 2012

This Report Concerns: Original Report	Equipment Type: MINI SPEAKER
Test Engineer:	Eric Li <i>Eric Li</i>
Test Engineer of performing the tests:	Adam Yang <i>Adam Yang</i>
Report No.:	BST12081011Y-1ER-3
Receive EUT Date/Test Date:	August 10, 2012/ August 11-18, 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	: MINI SPEAKER
Applicant	: Shenzhen Junjiahao Technology Co., Ltd. Building B, Block A, Phase 2, Fuyu Industrial Park, Dalang Street, Baoan District, Shenzhen, China
Manufacturer	: Shenzhen Junjiahao Technology Co., Ltd. Building B, Block A, Phase 2, Fuyu Industrial Park, Dalang Street, Baoan District, Shenzhen, China
Model Number	: JH-MAUK2BT, JH-MD05BT, JH-MD06BT, JH-MAQ5BT, JH-MAUKBT, JH-MD04BT, JH-MAJZBT
Trade Name	: N/A
Frequency	: 2402-2480MHz
Power Supply	: DC 3.7V Li-ion Battery

2.2. Block Diagram of EUT Configuration

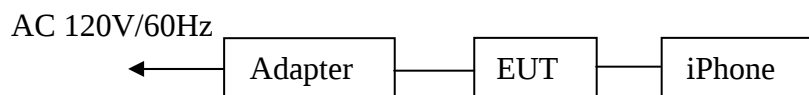


Figure 1 EUT Setup of TX mode

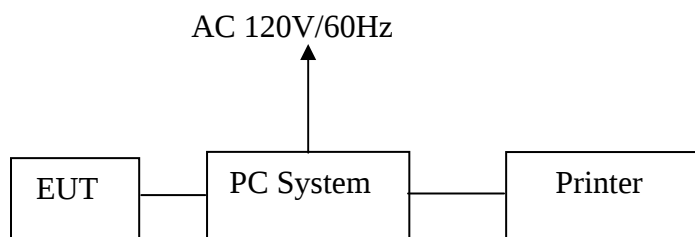


Figure 2 EUT Setup of Charging mode

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used “ √ ”
PC system	AM1830	N/A	Acer	√
Printer	HP1020	N/A	HP	√
iPhone 4	A1332	012840000531355	Apple	√

2.4. Test Conditions

Temperature: 20~25

Relative Humidity: 50~63 %

3. FCC ID LABEL

FCC ID: PEUJH-MAUK2BT

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	VULB9168-438	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	MY46185649	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

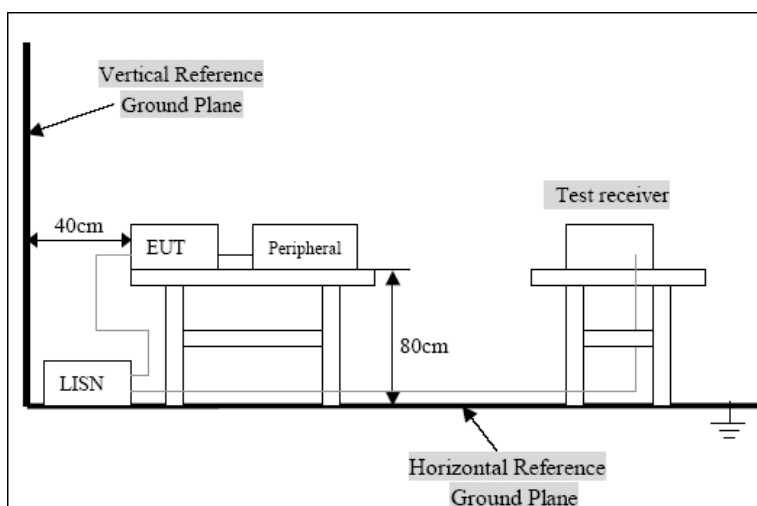
Please refer to section 5 this report.

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 checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ASIN C63.4:2003 on conducted measurement. Conducted emissions were measured over the frequency range from 0.15MHz to 30MHz 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

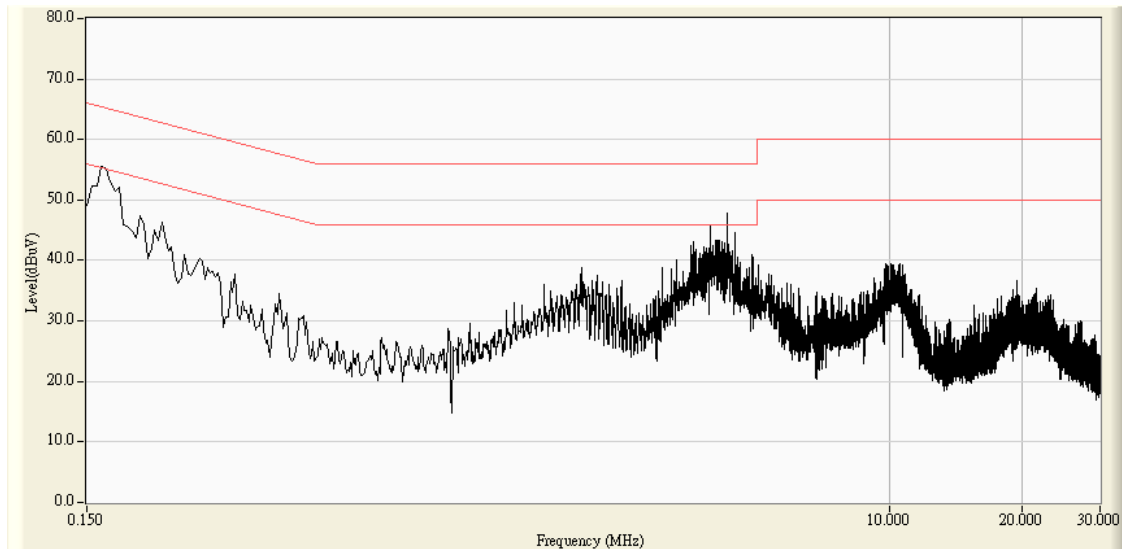
Note: In the above table, the tighter limit applies at the band edges.

7.5. Conducted Power Line Test Result

Pass.

Date of Test:	August 16, 2012	Temperature:	23°C
EUT:	MINI SPEAKER	Humidity:	54%
Model No.:	JH-MAUK2BT	Power Supply:	DC 5V power by Adapter Adapter power: AC120V/60Hz
Test Mode:	TX	Test Engineer:	Eric Li

L Line

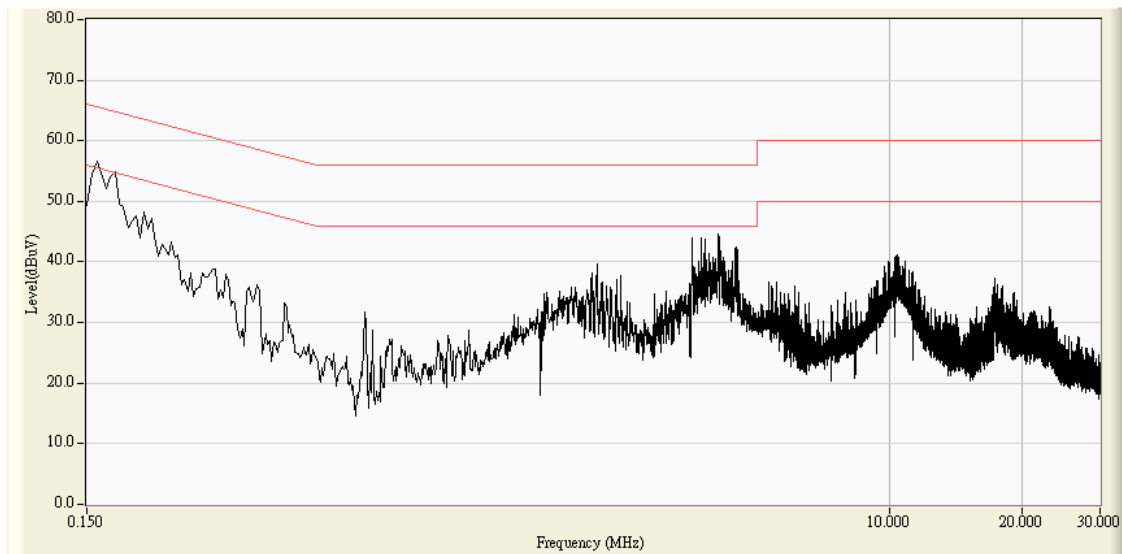


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	10.190	39.700	49.890	-15.471	65.361	QUASIPeAK
2		0.222	9.344	28.600	37.944	-24.800	62.744	QUASIPeAK
3		1.990	9.860	20.100	29.960	-26.040	56.000	QUASIPeAK
4	*	4.266	9.810	31.200	41.010	-14.990	56.000	QUASIPeAK
5		4.850	9.796	22.600	32.396	-23.604	56.000	QUASIPeAK
6		10.522	9.950	21.900	31.850	-28.150	60.000	QUASIPeAK
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	10.190	32.300	42.490	-12.871	55.361	AVERAGE
2		0.222	9.344	22.200	31.544	-21.200	52.744	AVERAGE
3		1.990	9.860	16.900	26.760	-19.240	46.000	AVERAGE
4		4.266	9.810	20.400	30.210	-15.790	46.000	AVERAGE
5		4.850	9.796	18.800	28.596	-17.404	46.000	AVERAGE
6		10.522	9.950	18.400	28.350	-21.650	50.000	AVERAGE

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



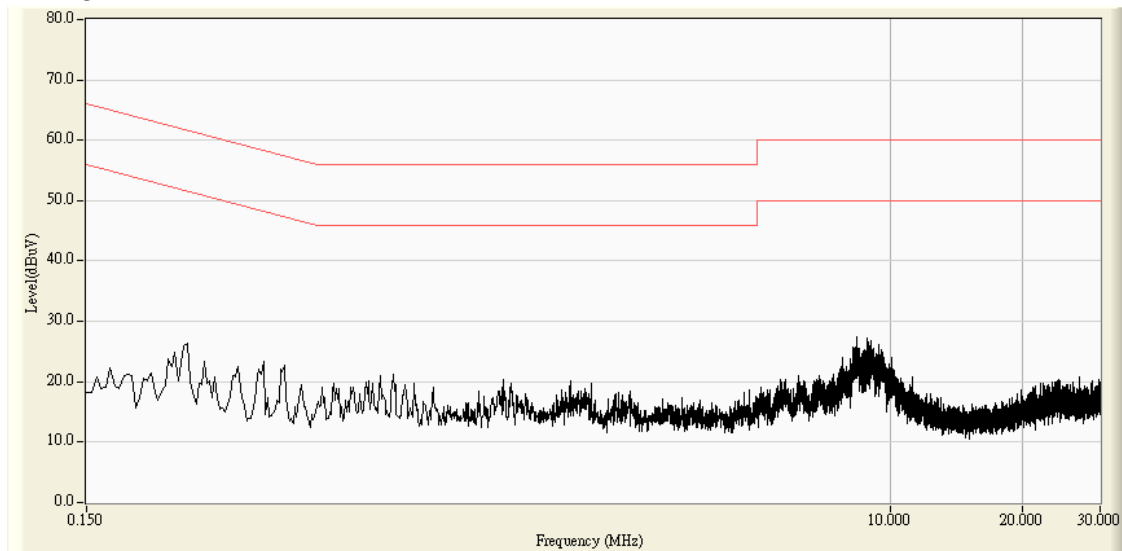
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.712	41.800	51.512	-14.056	65.568	QUASIPeAK
2		0.366	9.627	22.800	32.427	-26.164	58.591	QUASIPeAK
3		2.158	9.800	29.000	38.800	-17.200	56.000	QUASIPeAK
4	*	4.082	9.740	32.300	42.040	-13.960	56.000	QUASIPeAK
5		10.386	9.980	26.300	36.280	-23.720	60.000	QUASIPeAK
6		17.322	10.120	19.300	29.420	-30.580	60.000	QUASIPeAK
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.712	33.700	43.412	-12.156	55.568	AVERAGE
2		0.366	9.627	19.800	29.427	-19.164	48.591	AVERAGE
3		2.158	9.800	26.900	36.700	-9.300	46.000	AVERAGE
4	*	4.082	9.740	27.800	37.540	-8.460	46.000	AVERAGE
5		10.386	9.980	19.700	29.680	-20.320	50.000	AVERAGE
6		17.322	10.120	15.300	25.420	-24.580	50.000	AVERAGE

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:	<u>August 16, 2012</u>	Temperature:	<u>23°C</u>
EUT:	<u>MINI SPEAKER</u>	Humidity:	<u>54%</u>
Model No.:	<u>JH-MAUK2BT</u>	Power Supply:	<u>DC 5V power by PC USB port</u> <u>PC power: AC120V/60Hz</u>
Test Mode:	<u>Charging</u>	Test Engineer:	<u>Eric Li</u>

L Line



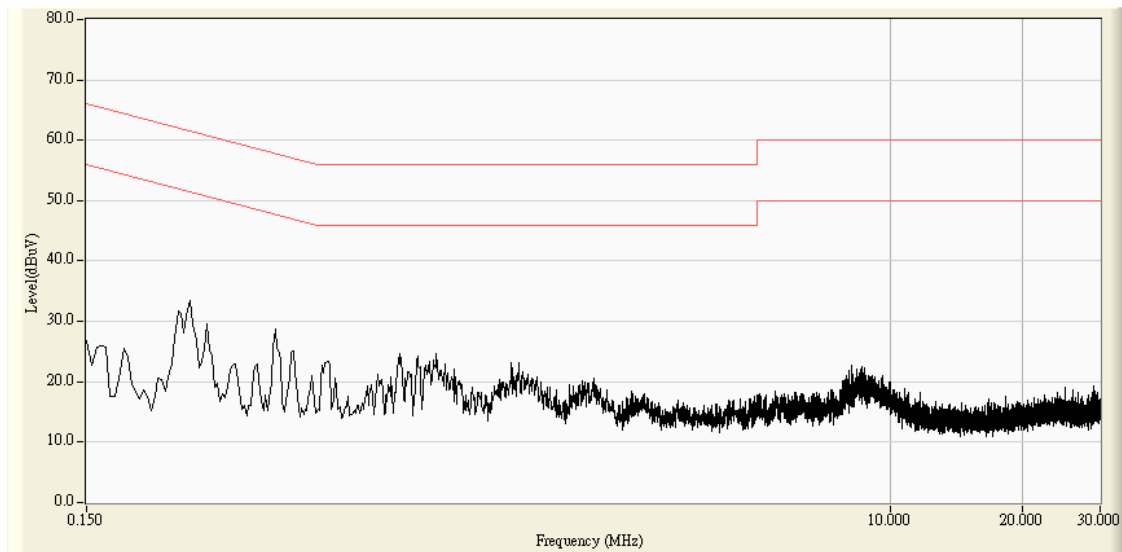
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	10.214	7.600	17.814	-47.957	65.771	QUASIPeAK
2		0.252	9.462	12.200	21.662	-41.424	63.086	QUASIPeAK
3		0.278	9.482	8.200	17.682	-44.661	62.343	QUASIPeAK
4		0.368	9.549	5.800	15.349	-44.422	59.771	QUASIPeAK
5		0.764	9.690	4.900	14.590	-41.410	56.000	QUASIPeAK
6	*	8.442	9.880	10.300	20.180	-39.820	60.000	QUASIPeAK

		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	10.214	0.900	11.114	-44.657	55.771	AVERAGE
2		0.252	9.462	4.200	13.662	-39.424	53.086	AVERAGE
3		0.278	9.482	0.300	9.782	-42.561	52.343	AVERAGE
4		0.368	9.549	0.600	10.149	-39.622	49.771	AVERAGE
5	*	0.764	9.690	0.100	9.790	-36.210	46.000	AVERAGE
6		8.442	9.880	2.500	12.380	-37.620	50.000	AVERAGE

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



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.182	9.776	14.600	24.376	-40.710	65.086	QUASIPeAK
2	*	0.258	9.583	20.600	30.183	-32.731	62.914	QUASIPeAK
3		0.278	9.593	14.400	23.993	-38.350	62.343	QUASIPeAK
4		0.405	9.610	14.000	23.610	-35.104	58.714	QUASIPeAK
5		0.442	9.614	14.200	23.814	-33.843	57.657	QUASIPeAK
6		0.935	9.780	10.800	20.580	-35.420	56.000	QUASIPeAK
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.182	9.776	9.500	19.276	-35.810	55.086	AVERAGE
2		0.258	9.583	14.700	24.283	-28.631	52.914	AVERAGE
3		0.278	9.593	7.800	17.393	-34.950	52.343	AVERAGE
4		0.405	9.610	11.200	20.810	-27.904	48.714	AVERAGE
5	*	0.442	9.614	10.600	20.214	-27.443	47.657	AVERAGE
6		0.935	9.780	1.600	11.380	-34.620	46.000	AVERAGE

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.

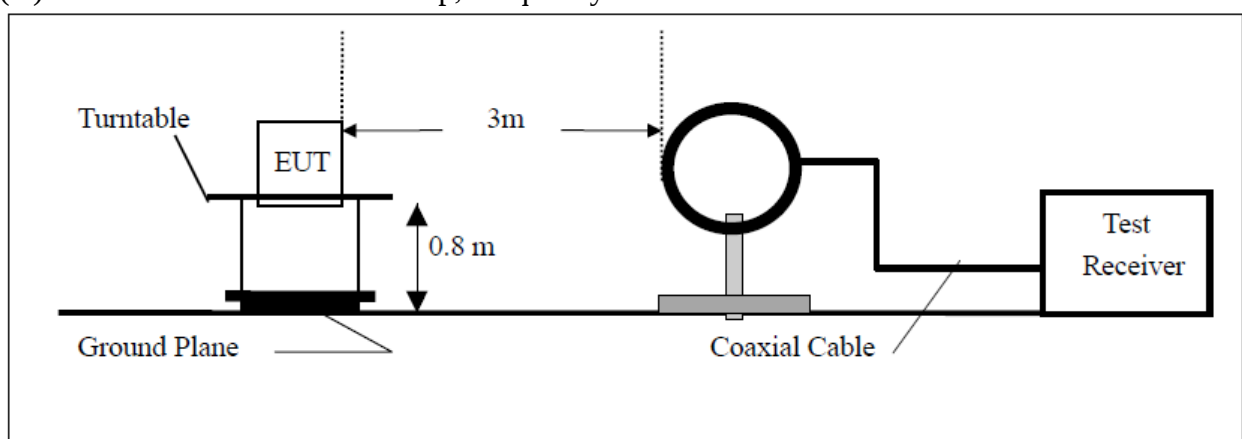
The frequency range from 9kHz to 25GHz is checked.

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.

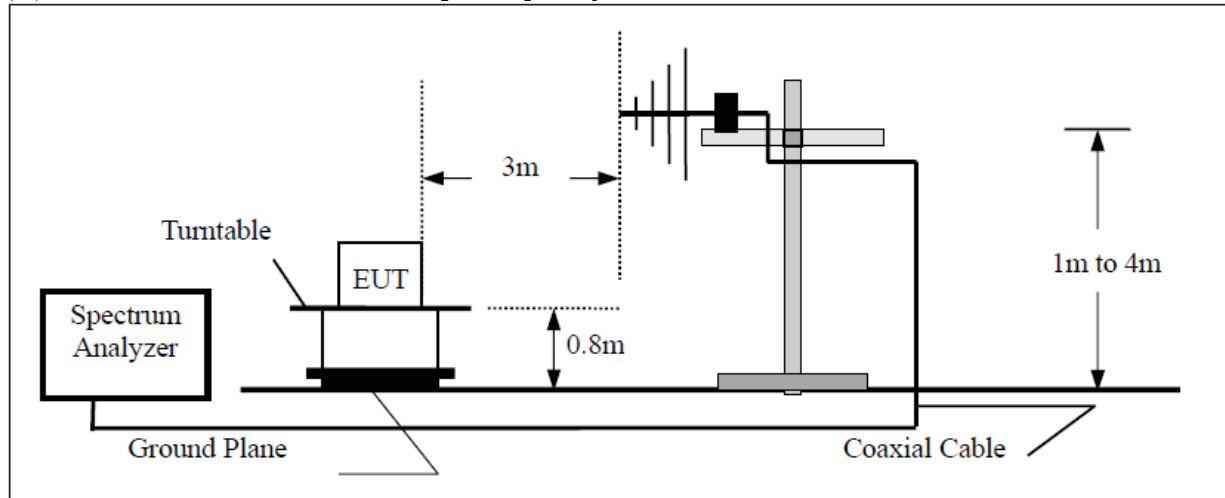
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit.

8.3. Radiated Test Setup

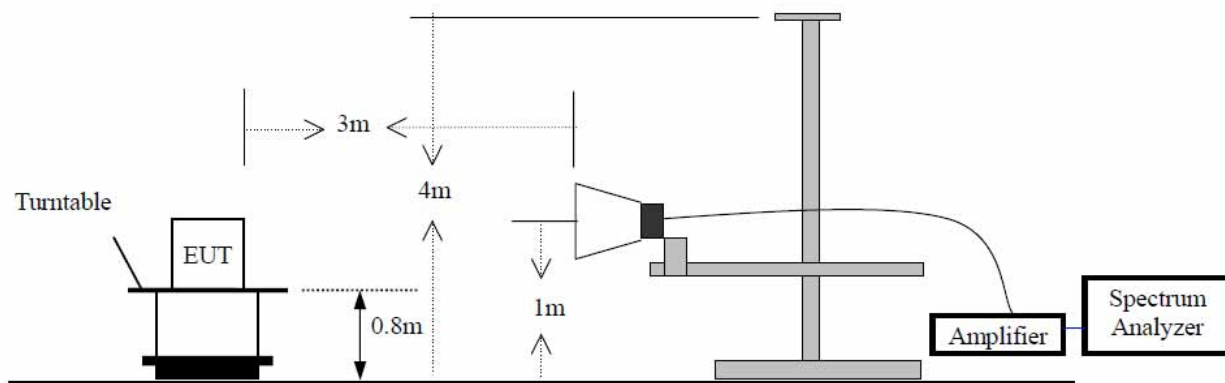
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(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 trength of Fundamental(3m)			Field as trength 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 os 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 (dBμV/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 mention 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) Distagncce 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	83.58/93.28	VERT	94/114	10.42/20.72
2402	82.32/92.56	HORIZ	94/114	11.68/21.44

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2441	84.01/94.73	VERT	94/114	9.99/19.27
2441	84.61/94.89	HORIZ	94/114	9.39/19.11

CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2480	84.97/95.06	VERT	94/114	9.03/18.94
2480	85.14/95.85	HORIZ	94/114	8.86/18.05

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	47.83/58.22	VERT	54.0/74.0	6.17/15.78
4804.0	48.14/58.49	HORIZ	54.0/74.0	5.86/15.51

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	49.35/59.67	VERT	54.0/74.0	4.65/14.33
4882.0	49.72/60.08	HORIZ	54.0/74.0	4.28/13.92

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	50.11/60.25	VERT	54.0/74.0	3.89/13.75
4960.0	50.58/61.36	HORIZ	54.0/74.0	3.42/12.64

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(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	PEAK	AV	PEAK	AV	PEAK	AV	
2390.000	61.31	48.33	74	54	12.69	5.67	Vertical
2390.000	61.18	48.31	74	54	12.82	5.69	Horizontal

Note:

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

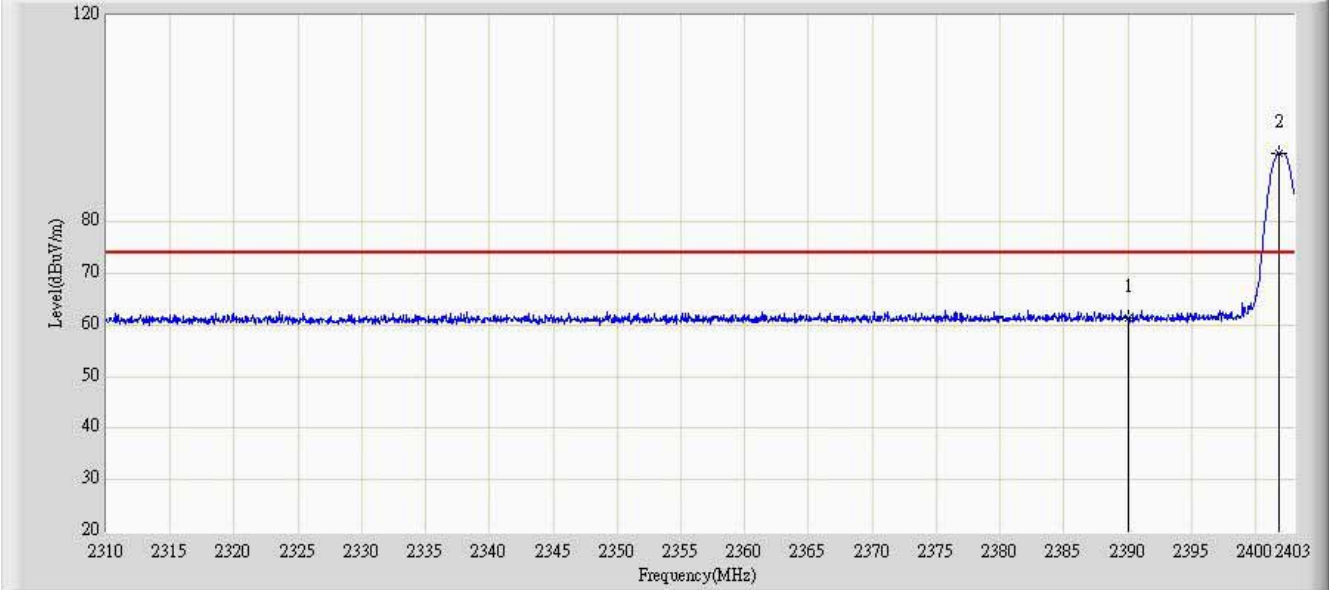
TX 2480MHz

Frequency (MHz)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	PEAK	AV	PEAK	AV	PEAK	AV	
2383.500	61.50	49.29	74	54	12.50	4.71	Vertical
2383.500	61.41	49.28	74	54	12.59	4.72	Horizontal

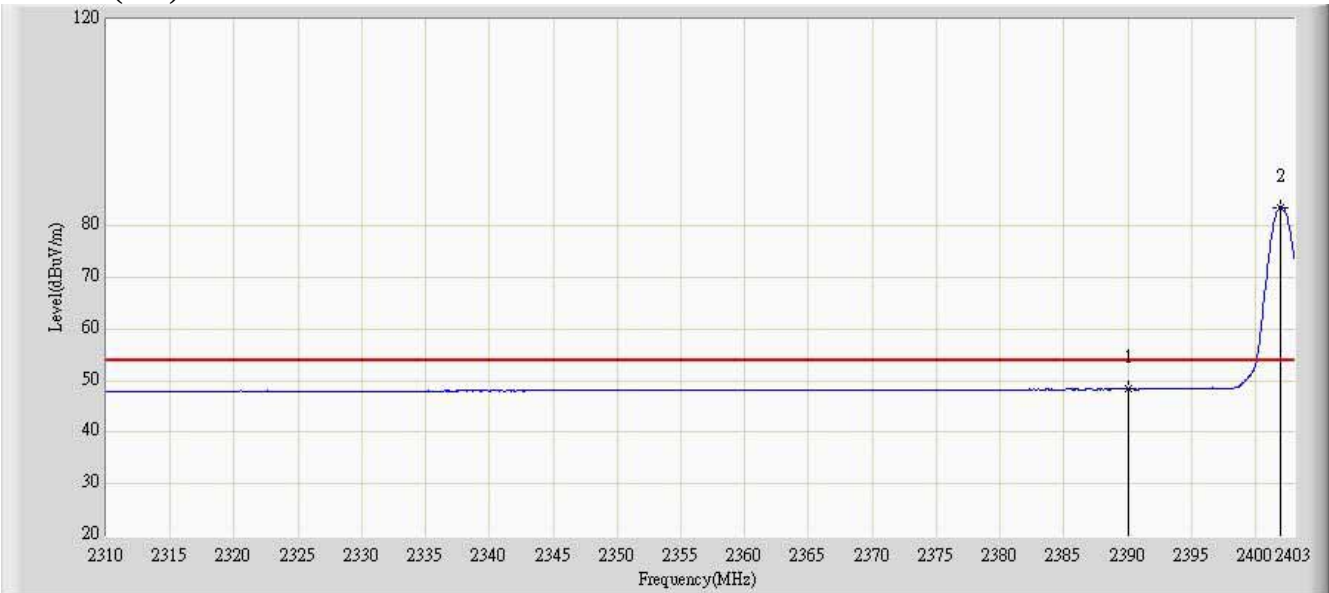
Note:

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

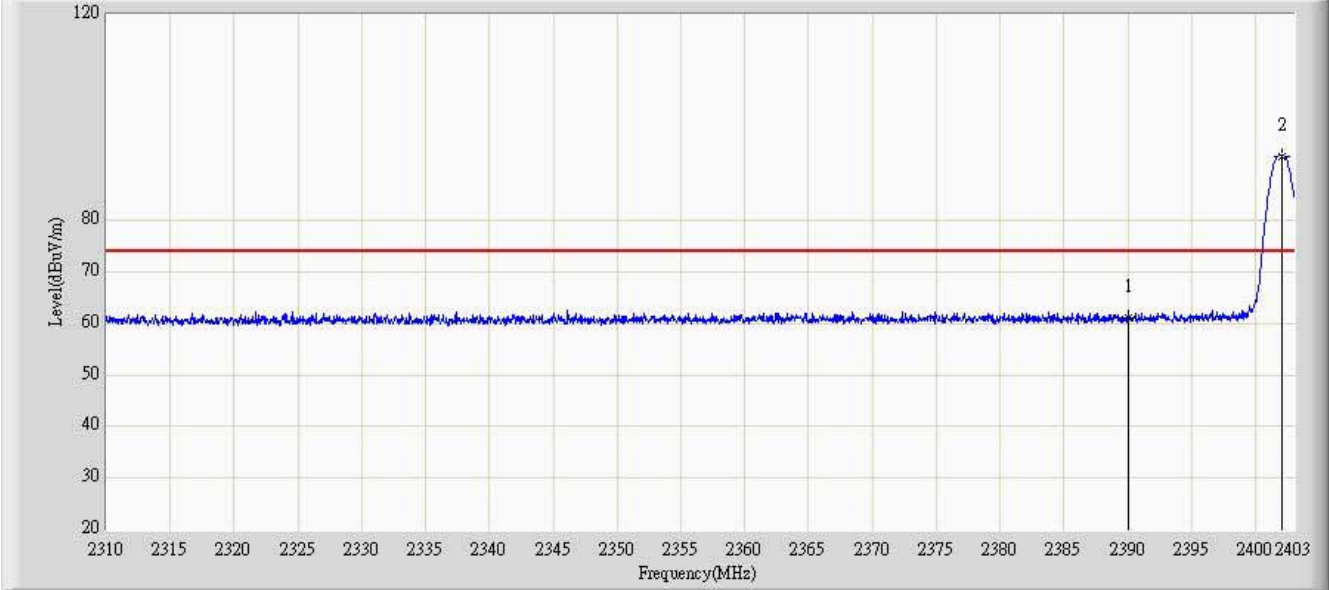
Vertical (PK) TX 2402MHz



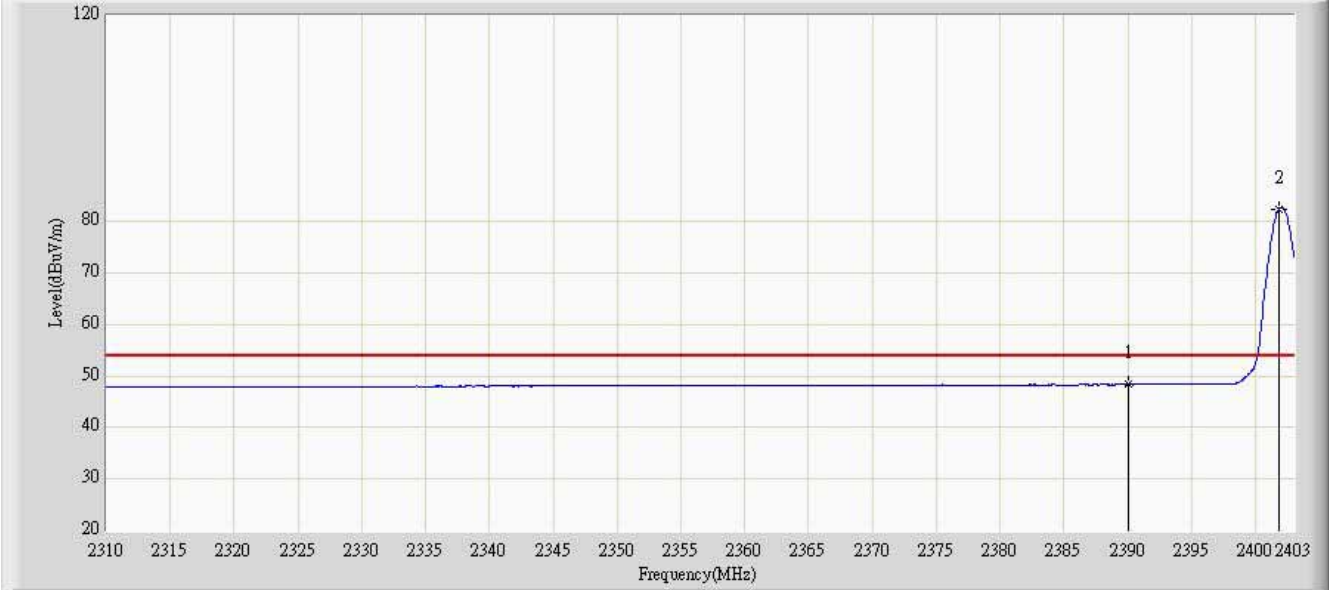
Vertical (AV) TX 2402MHz



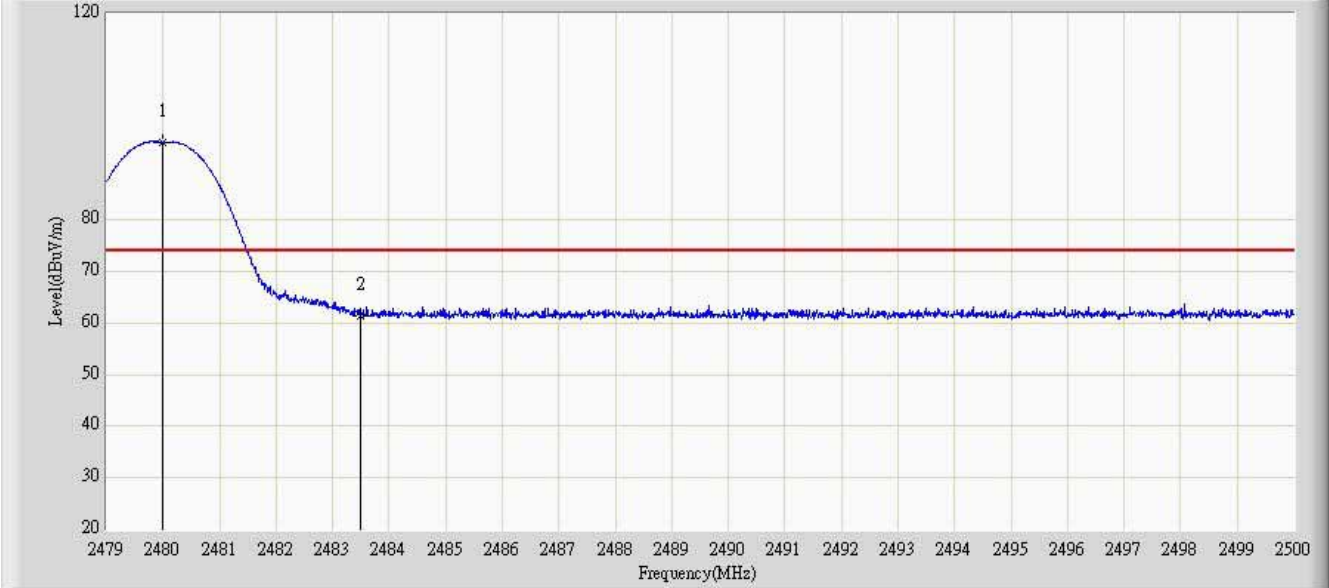
Horizontal (PK) TX 2402MHz



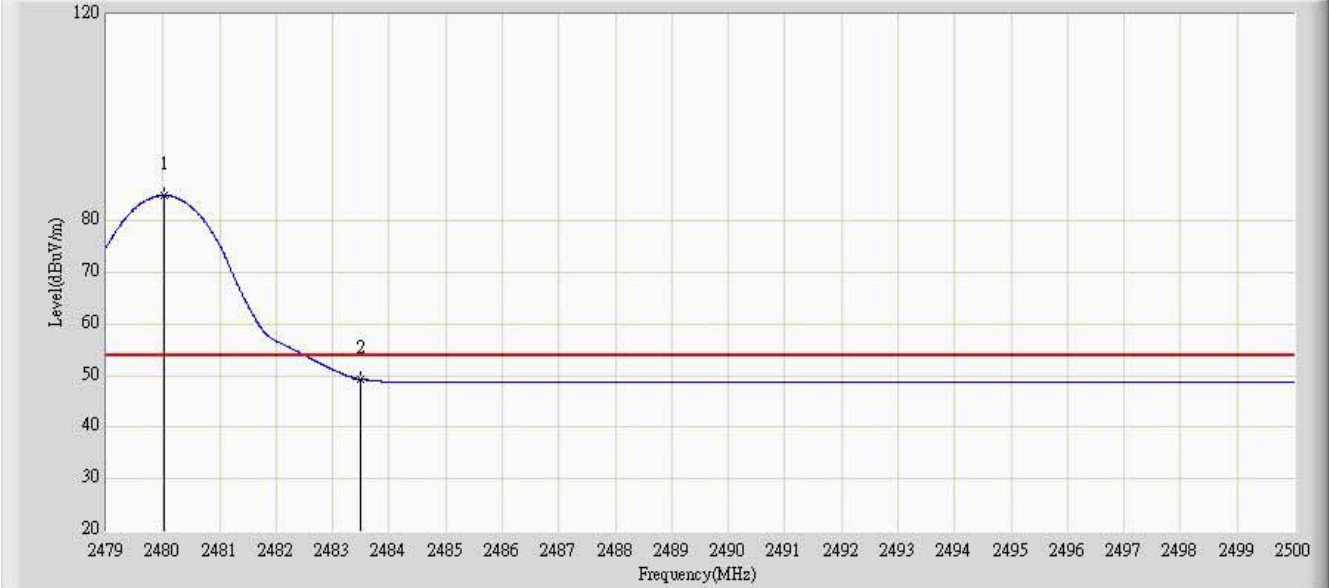
Horizontal (AV) TX 2402MHz



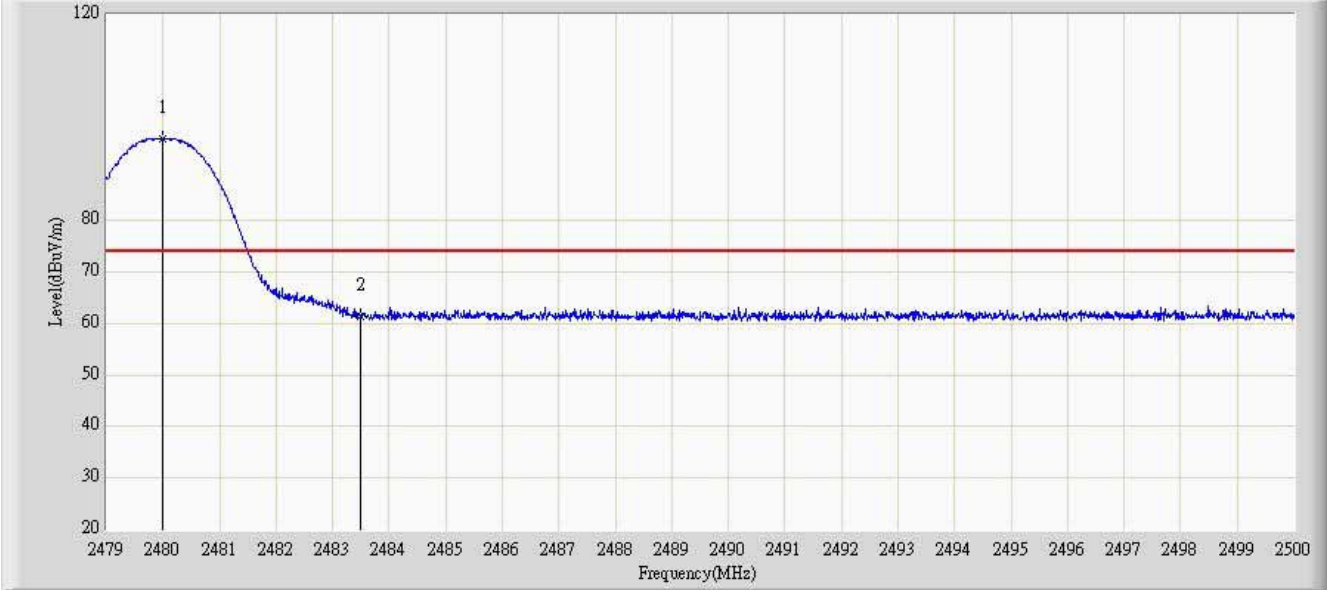
Vertical (PK) TX 2480MHz



Vertical (AV) TX 2480MHz



Horizontal (PK) TX 2480MHz



Horizontal (AV) TX 2480MHz

