



**RADIO TEST REPORT**  
**FCC ID: XN6-SS2520C6**  
**IC: 8819A-SS2520C6**

**Product :** 25"2.0 Sound Stand

**Trade Name :** VIZIO

**Model Name :** SS2520-C6

**Serial Model :** N/A

**Report No. :** NTEK-2015NT0123313F2

**Prepared for**

Zylux Acoustic Corporation

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... Zylux Acoustic Corporation

Address ..... 3F,22,Lane 35,Jihu Road,Taipei Neihu Technology Park,  
114 Taipei Taiwan-R.O.C

**Manufacturer's Name**... Zhao Yang Electronic(Shenzhen)Co., Ltd.

Address ..... Sec.A, 4F, Building 1&2, De Yong Jia Ind. Park, GuangQiao Rd. Yu Lv  
Com., GongMing St. 518100 Guang Ming New Distr., Shenzhen, China

### Product description

Product name ..... 25"2.0 Sound Stand

Model and/or type reference ..... SS2520-C6

Serial Model ..... N/A

**Standards** ..... FCC Part15.247:01 Oct. 2014  
IC RSS-210,Issue 8, December 2010

Test procedure ..... ANSI C63.4-2003  
RSS-Gen ISSUE 4 November 2014 and KDB 558074:June 5, 2014,

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements. And it is applicable only to the tested sample identified in the report.

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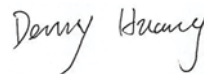
**Date of Test** .....

Date (s) of performance of tests ..... 23 Jan. 2015 ~04 Feb. 2015

Date of Issue ..... 04 Feb. 2015

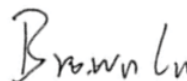
Test Result..... **Pass**

Testing Engineer :



Denny Huang

Technical Manager :



(Brown Lu)

Authorized Signatory :



(Bill Yao)

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### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C/ RSS-210 & RSS-Gen Rules			
Standard Section	Test Item	Judgment	Remark
15.207/ RSS-Gen §7.2.4	Conducted Emission	PASS	
15.247 (a)(2)/ RSS-Gen§4.6.1&RSS-210§A8.2 (a)	99% Occupied Bandwidth & 6dB Bandwidth	PASS	
15.247 (b)/ RSS-210 §A8.4 (4)	Peak Output Power	PASS	
15.247 (c)/ RSS-210 §2.2, §A8.5	Radiated Spurious Emission	PASS	
15.247 (d)/ RSS-210 §A8.2 (b)	Power Spectral Density	PASS	
15.205/ RSS-210 §2.2, §A8.5	Band Edge Emission	PASS	
15.203/ RSS-Gen §7.1.2	Antenna Requirement	PASS	

**NOTE:**

(1) " N/A" denotes test is not applicable in this Test Report

**1.1 TEST FACILITY**

NTEK Testing Technology Co., Ltd  
 Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.  
 FCC Registration No.:238937; IC Registration No.:9270A-1  
 CNAS Registration No.:L5516

**1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	25"2.0 Sound Stand	
Trade Name	<b>VIZIO</b>	
Model Name	SS2520-C6	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a 25"2.0 Sound Stand	
	Operation Frequency:	2402~2480MHz
	Modulation Type:	GFSK
	Number Of Channel	40CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	1.0dbi
Channel List	Please refer to the Note 2.	
Ratings	AC 120V,60Hz	
Adapter	Adapter 1: main test Adapter 2: Deputy test	
Battery	N/A	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel	Frequency (MHz)
00	2402
01	2404
.....	.....
.....	.....
.....	...
.....	.....
38	2478
39	2480

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PCB Antenna	N/A	1.0	BT Antenna



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39
Mode 4	Keeping TX mode

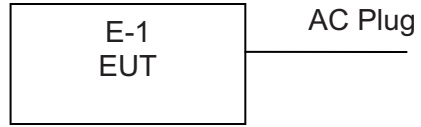
For Conducted Emission	
Final Test Mode	Description
Mode 4	Keeping TX mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39
Mode 4	Keeping TX mode

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



**2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	25"2.0 Sound Stand	VIZIO	SS2520-C6	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2014.07.06	2015.07.05	1 year

### Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year
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### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC/ RSS-210
0.50 -5.0	73.00	60.00	56.00	46.00	FCC/ RSS-210
5.0 -30.0	73.00	60.00	60.00	50.00	FCC/ RSS-210

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

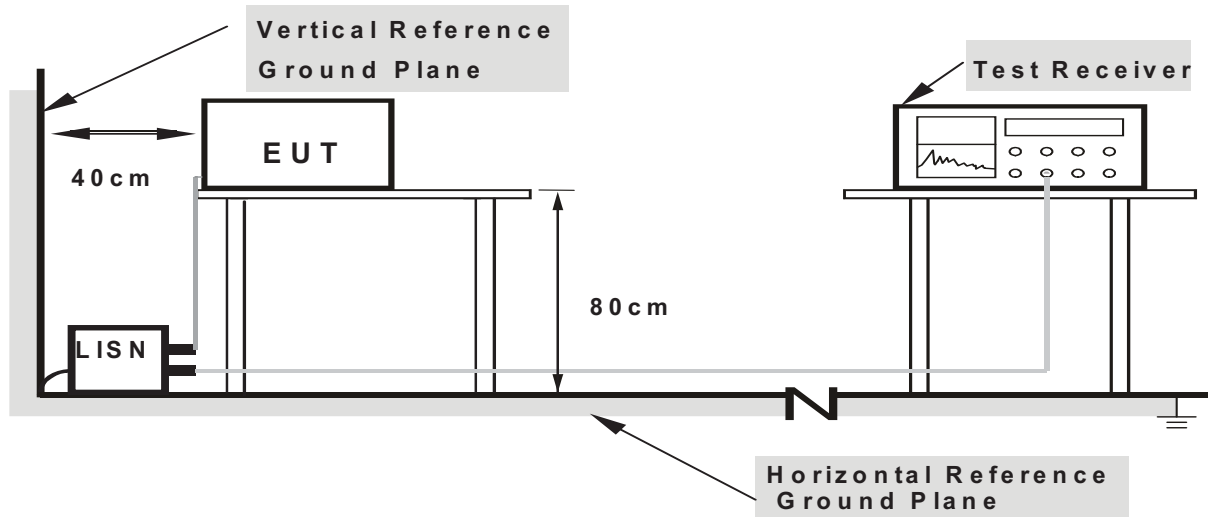
**3.1.2 TEST PROCEDURE**

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**3.1.3 DEVIATION FROM TEST STANDARD**

No deviation

**3.1.4 TEST SETUP**



- Note:**
- 1. Support units were connected to second LISN.
  - 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

**3.1.5 EUT OPERATING CONDITIONS**

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

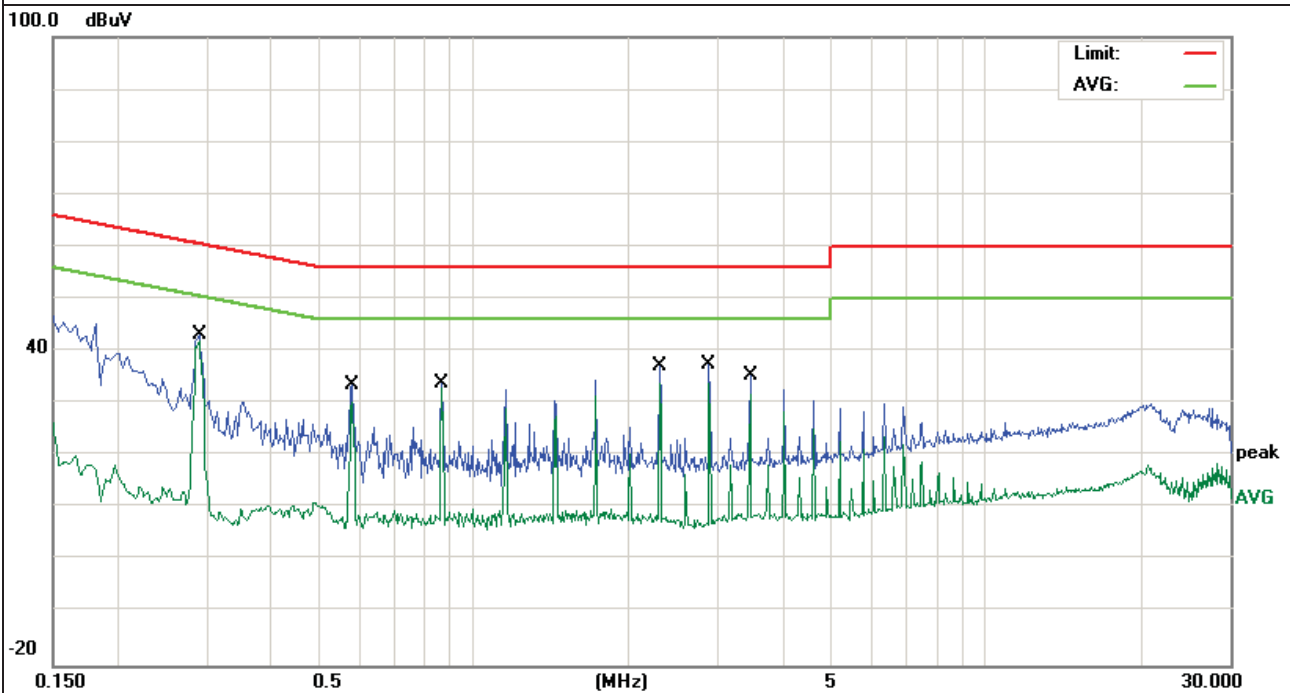
### 3.1.6 TEST RESULTS

EUT :	25"2.0 Sound Stand	Model Name. :	SS2520-C6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz- Adapter 1	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2900	33.43	9.57	43.00	60.52	-17.52	QP
0.2900	32.46	9.57	42.03	50.52	-8.49	AVG
0.5780	24.11	9.57	33.68	56.00	-22.32	QP
0.5780	20.63	9.57	30.20	46.00	-15.80	AVG
0.8660	24.30	9.58	33.88	56.00	-22.12	QP
0.8660	23.25	9.58	32.83	46.00	-13.17	AVG
2.3060	27.46	9.58	37.04	56.00	-18.96	QP
2.3060	24.24	9.58	33.82	46.00	-12.18	AVG
2.8820	27.70	9.60	37.30	56.00	-18.70	QP
2.8820	24.18	9.60	33.78	46.00	-12.22	AVG
3.4580	25.70	9.61	35.31	56.00	-20.69	QP
3.4580	22.00	9.61	31.61	46.00	-14.39	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

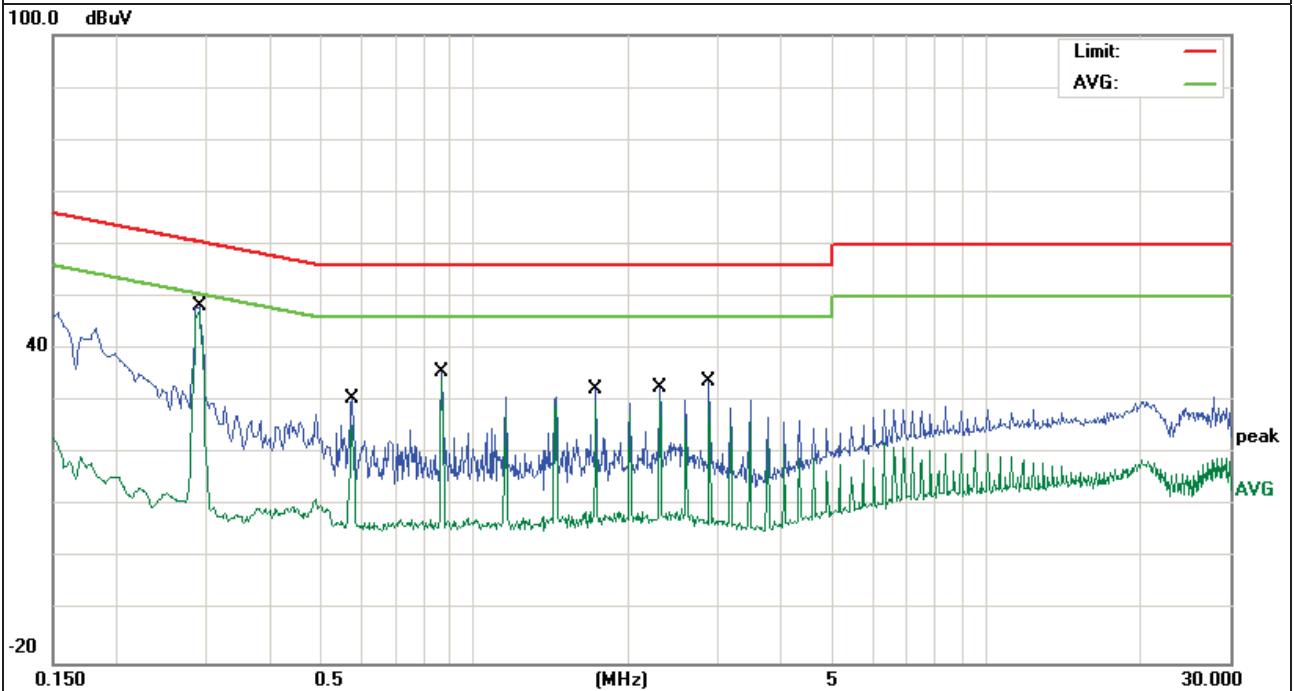


EUT :	25"2.0 Sound Stand	Model Name. :	SS2520-C6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz- Adapter 1	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2900	38.58	9.57	48.15	60.52	-12.37	QP
0.2900	37.23	9.57	46.80	50.52	-3.72	AVG
0.5780	20.84	9.57	30.41	56.00	-25.59	QP
0.5780	15.78	9.57	25.35	46.00	-20.65	AVG
0.8660	26.01	9.58	35.59	56.00	-20.41	QP
0.8660	24.92	9.58	34.50	46.00	-11.50	AVG
1.7300	22.67	9.57	32.24	56.00	-23.76	QP
1.7300	20.01	9.57	29.58	46.00	-16.42	AVG
2.3060	22.95	9.58	32.53	56.00	-23.47	QP
2.3060	20.99	9.58	30.57	46.00	-15.43	AVG
2.8820	24.17	9.60	33.77	56.00	-22.23	QP
2.8820	19.90	9.60	29.50	46.00	-16.50	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



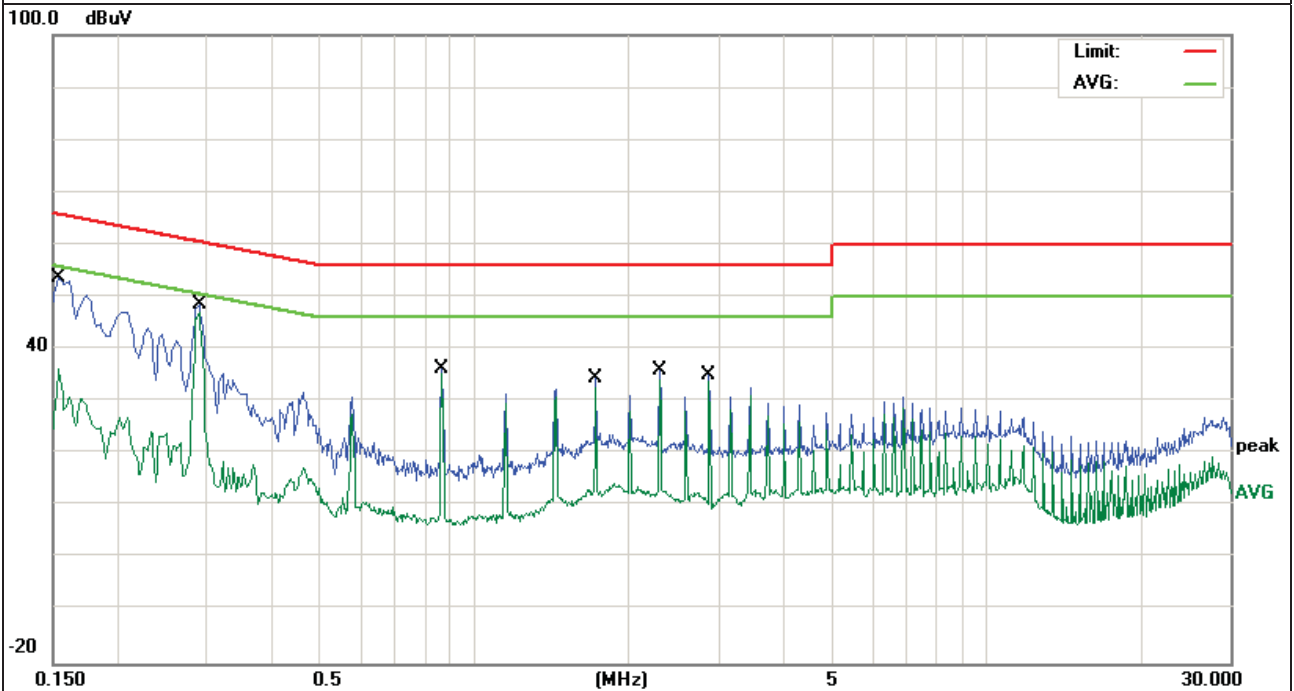


EUT :	25"2.0 Sound Stand	Model Name. :	SS2520-C6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz- Adapter 2	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	44.11	9.63	53.74	65.78	-12.04	QP
0.1539	26.49	9.63	36.12	55.78	-19.66	AVG
0.2900	39.25	9.45	48.70	60.52	-11.82	QP
0.2900	37.67	9.45	47.12	50.52	-3.40	AVG
0.8659	26.73	9.46	36.19	56.00	-19.81	QP
0.8659	25.77	9.46	35.23	46.00	-10.77	AVG
1.7299	25.06	9.46	34.52	56.00	-21.48	QP
1.7299	23.12	9.46	32.58	46.00	-13.42	AVG
2.3060	26.44	9.45	35.89	56.00	-20.11	QP
2.3060	24.82	9.45	34.27	46.00	-11.73	AVG
2.8820	25.67	9.45	35.12	56.00	-20.88	QP
2.8820	24.51	9.45	33.96	46.00	-12.04	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

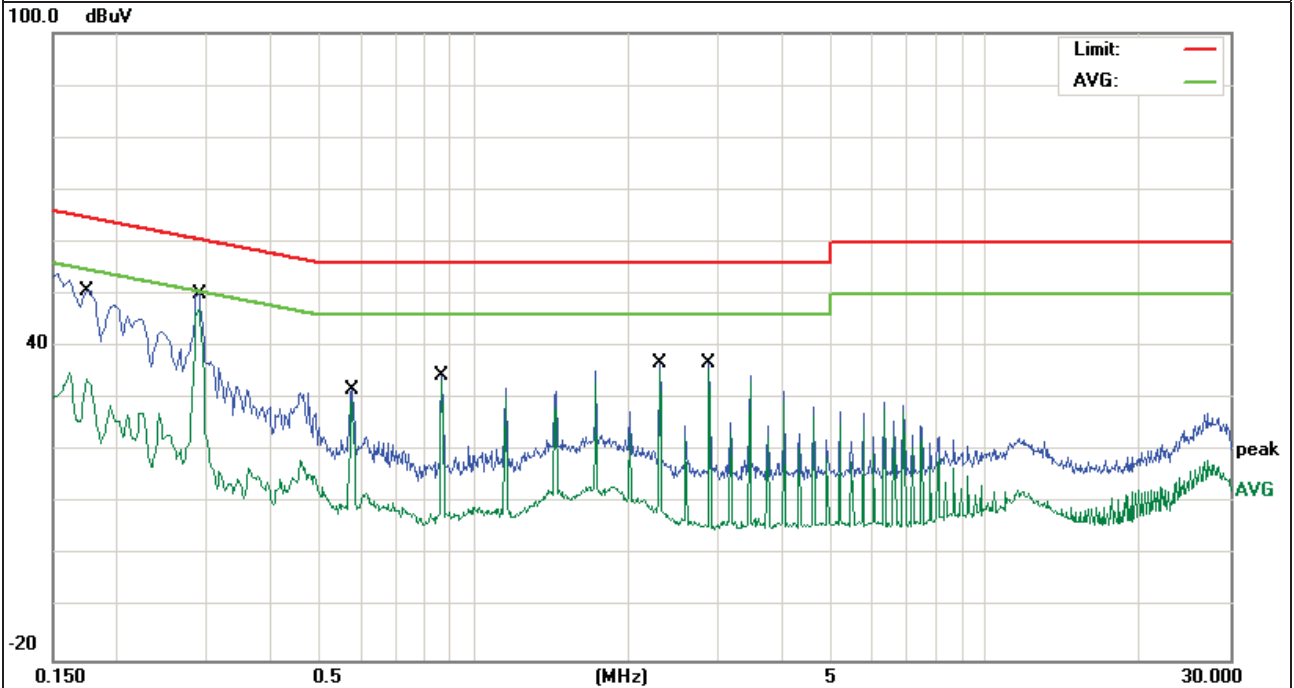


EUT :	25"2.0 Sound Stand	Model Name. :	SS2520-C6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz- Adapter 2	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1737	41.18	9.56	50.74	64.78	-14.04	QP
0.1737	24.63	9.56	34.19	54.78	-20.59	AVG
0.2900	40.54	9.45	49.99	60.52	-10.53	QP
0.2900	37.89	9.45	47.34	50.52	-3.18	AVG
0.5777	22.22	9.46	31.68	56.00	-24.32	QP
0.5777	20.20	9.46	29.66	46.00	-16.34	AVG
0.8660	25.01	9.46	34.47	56.00	-21.53	QP
0.8660	24.10	9.46	33.56	46.00	-12.44	AVG
2.3060	27.31	9.45	36.76	56.00	-19.24	QP
2.3060	26.03	9.45	35.48	46.00	-10.52	AVG
2.8820	27.37	9.45	36.82	56.00	-19.18	QP
2.8820	26.30	9.45	35.75	46.00	-10.25	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a)/ RSS-210 §2.2& A8.5, then the 15.209(a)/ RSS-210 & A8.5 limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C/ RSS-Gen.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic

The frequency spectrum from 30 MHz to 25 GHz was investigated.

All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector.

### 3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

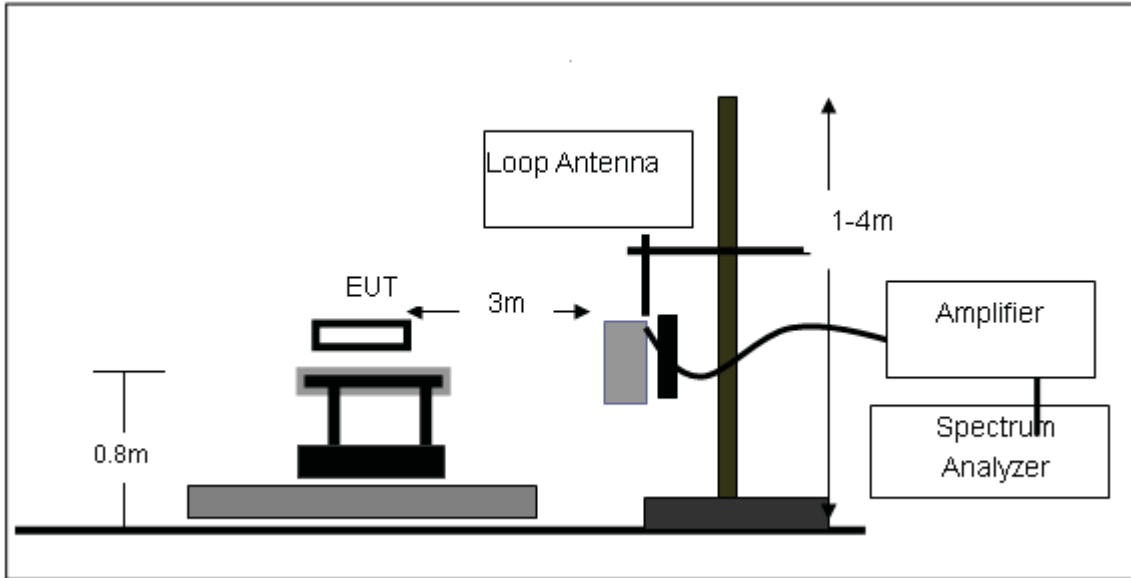
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 3.2.3 DEVIATION FROM TEST STANDARD

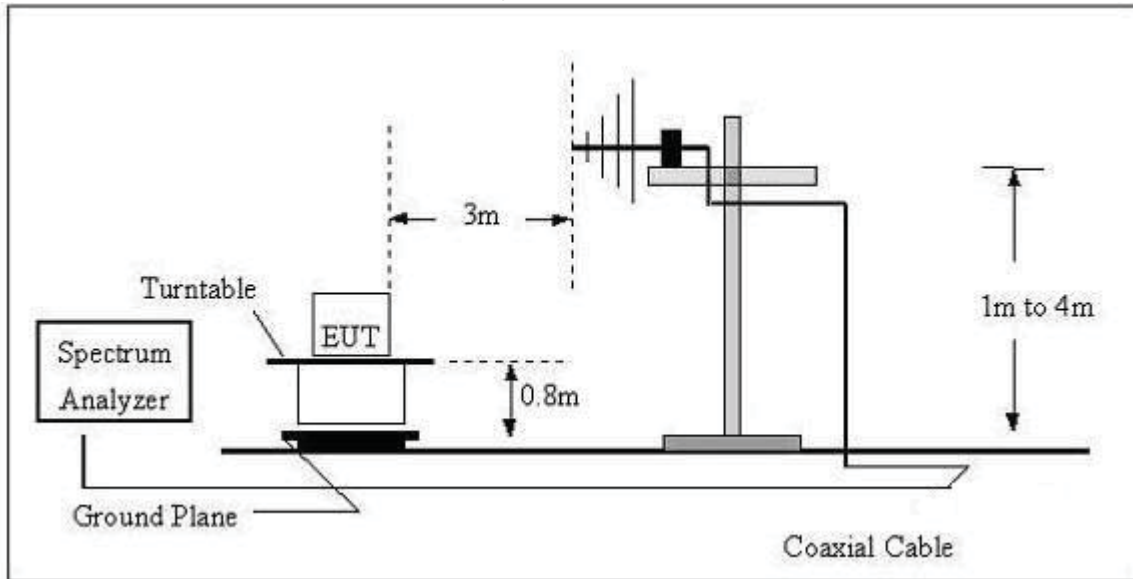
No deviation

**3.2.4 TEST SETUP**

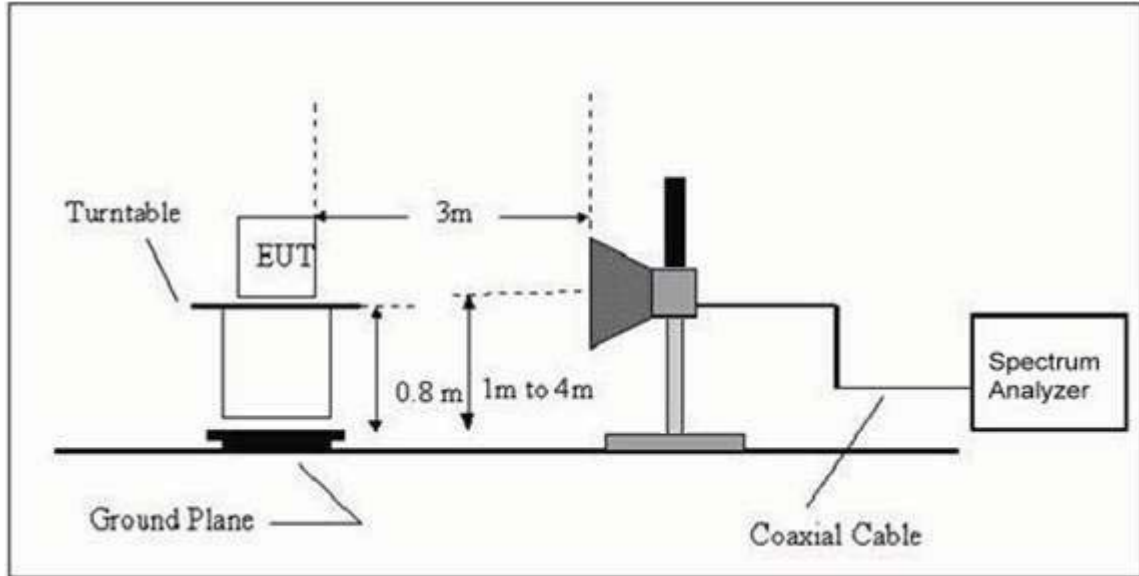
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



**3.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

EUT:	25"2.0 Sound Stand	Model Name. :	SS2520-C6
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	N/A
--	--	--	--	N/A

**NOTE:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})(\text{dB})$ ;

Limit line = specific limits(dBuv) + distance extrapolation factor.

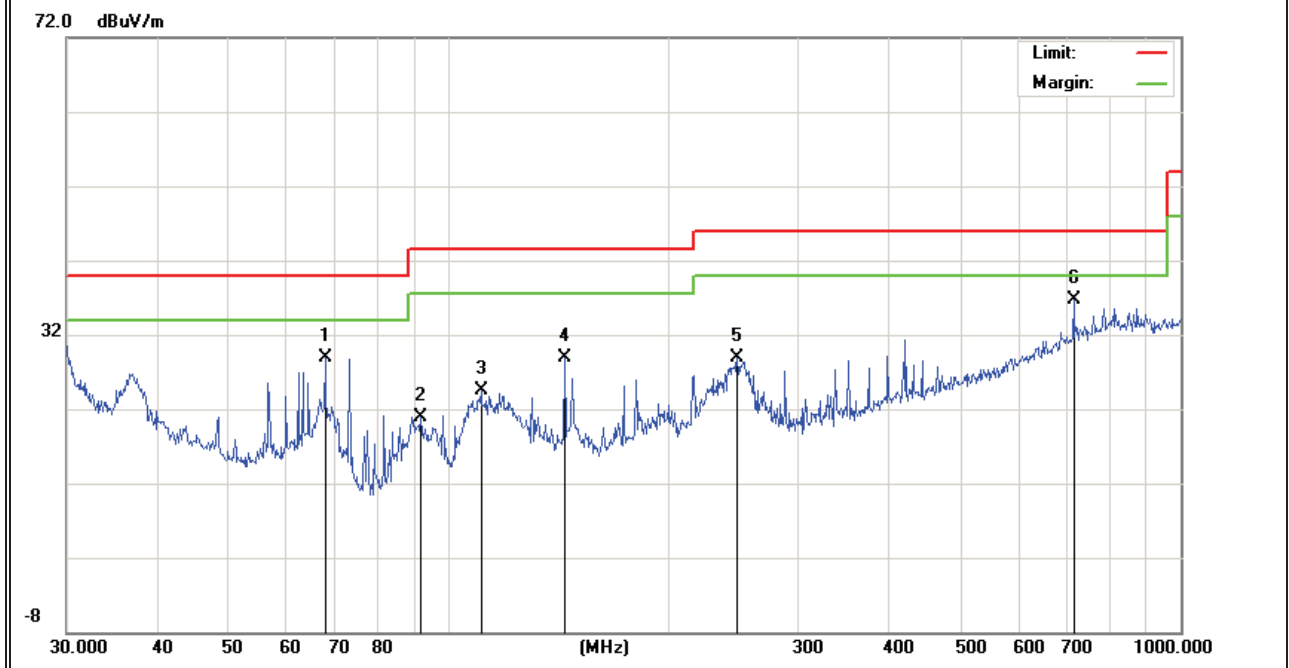
### 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz- Adapter 1
Test Mode :	TX		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
V	67.6751	22.78	6.10	28.88	40.00	-11.12	QP
V	91.4949	12.91	8.08	20.99	43.50	-22.51	QP
V	110.5687	14.40	10.07	24.47	43.50	-19.03	QP
V	143.8293	17.86	11.03	28.89	43.50	-14.61	QP
V	247.6819	15.37	13.57	28.94	46.00	-17.06	QP
V	714.1734	11.45	25.17	36.62	46.00	-9.38	QP

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

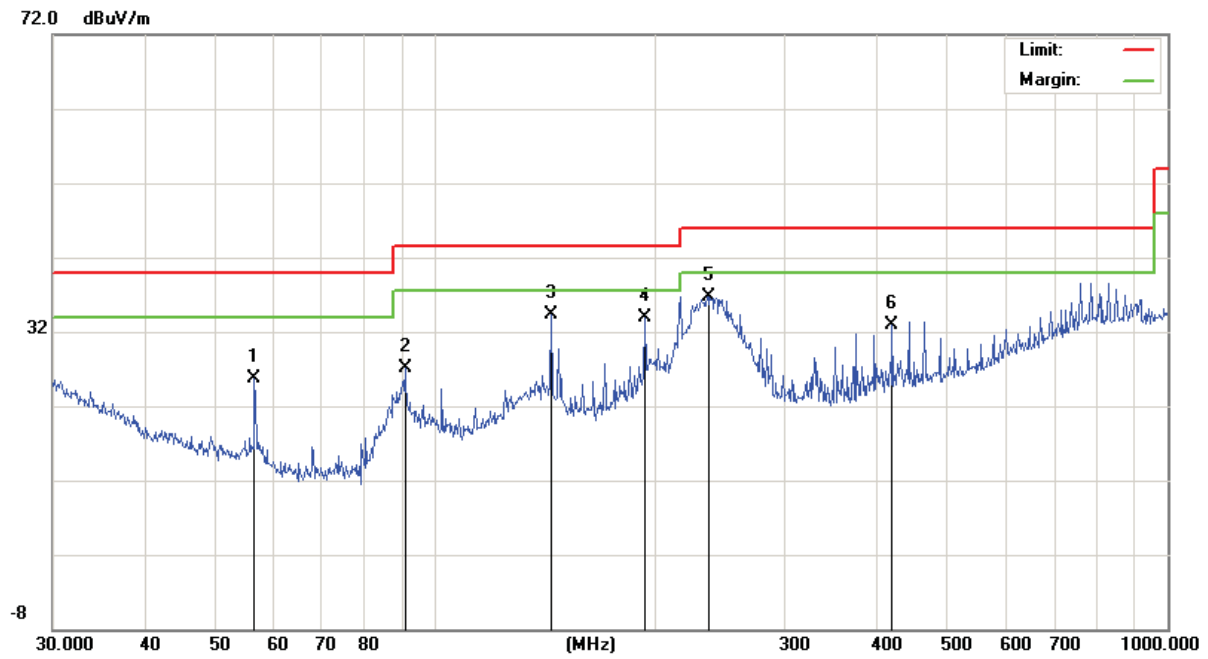




Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
H	56.5929	16.86	8.81	25.67	40.00	-14.33	QP
H	90.8554	19.17	8.02	27.19	43.50	-16.31	QP
H	143.8294	23.24	11.03	34.27	43.50	-9.23	QP
H	193.0945	23.28	10.72	34.00	43.50	-9.50	QP
H	235.8164	23.56	13.21	36.77	46.00	-9.23	QP
H	420.5803	14.10	18.72	32.82	46.00	-13.18	QP

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

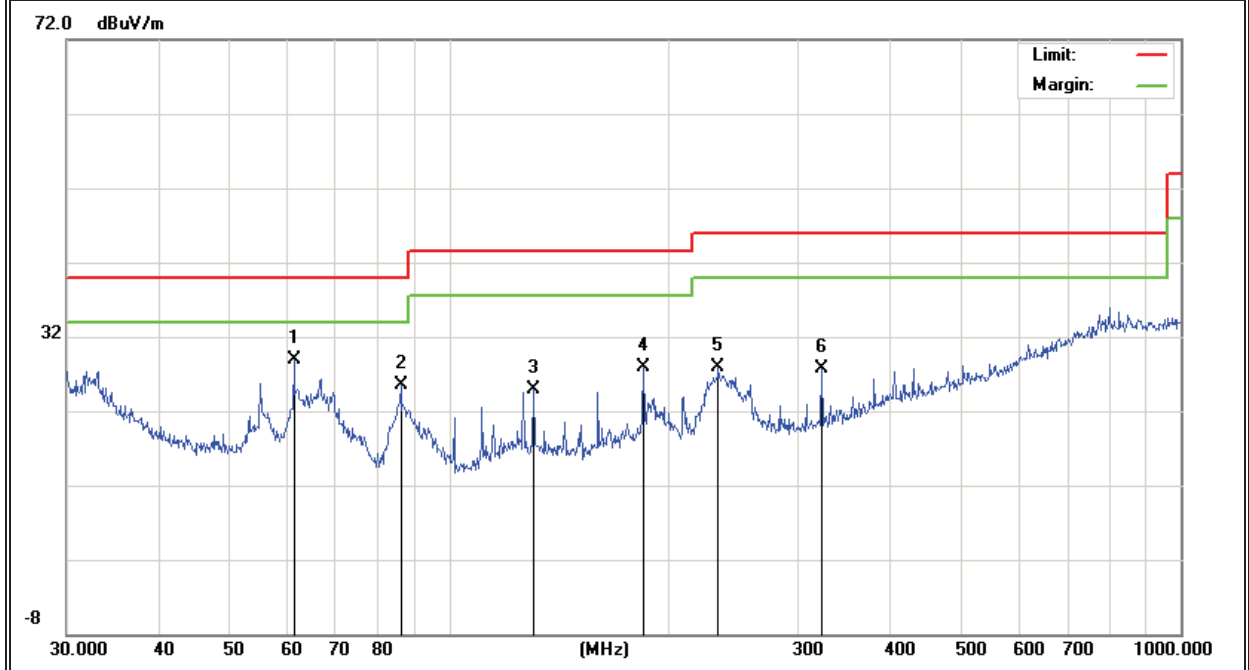


EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz- Adapter 2
Test Mode :	TX		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	61.3463	21.28	7.53	28.81	40.00	-11.19	QP
V	85.8984	18.52	7.07	25.59	40.00	-14.41	QP
V	130.3788	13.05	11.87	24.92	43.50	-18.58	QP
V	184.4898	17.32	10.66	27.98	43.50	-15.52	QP
V	233.3487	14.80	13.04	27.84	46.00	-18.16	QP
V	323.3204	12.65	15.12	27.77	46.00	-18.23	QP

**Remark:**

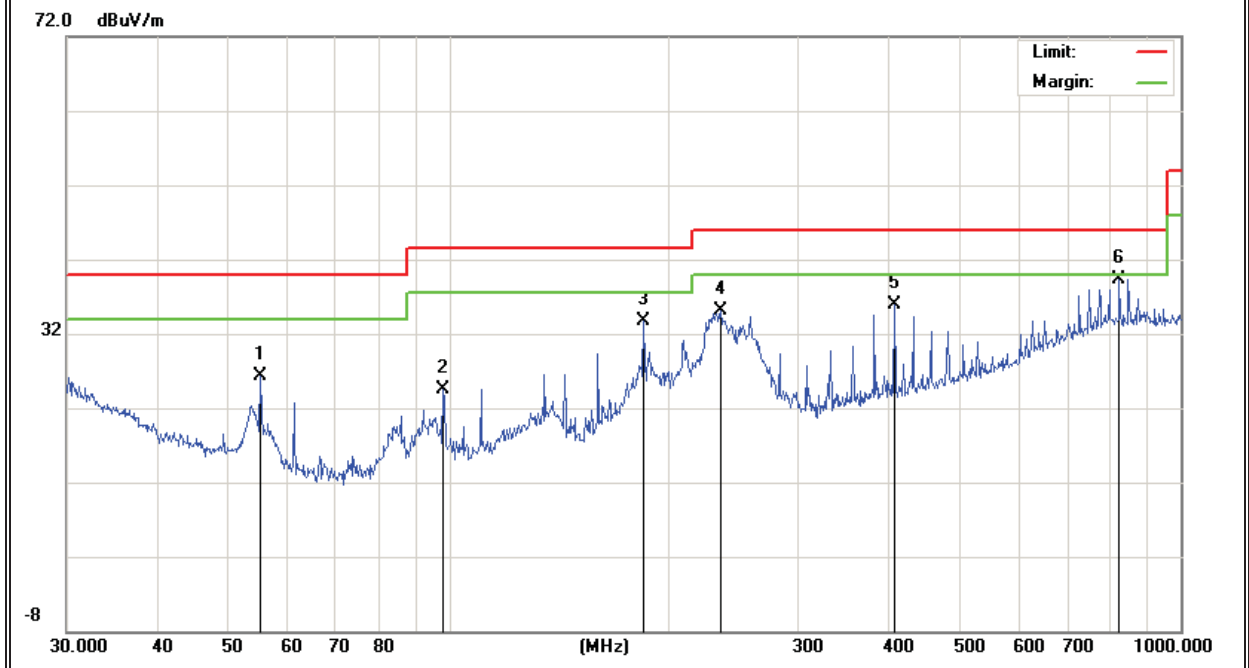
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	55.2207	17.02	9.20	26.22	40.00	-13.78	QP
H	98.1419	15.74	8.78	24.52	43.50	-18.98	QP
H	184.4898	22.99	10.66	33.65	43.50	-9.85	QP
H	234.9909	21.87	13.14	35.01	46.00	-10.99	QP
H	406.0880	17.57	18.43	36.00	46.00	-10.00	QP
H	824.5968	11.93	27.32	39.25	46.00	-6.75	QP

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



### 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz- Adapter 1
Test Mode :	TX		

Frequency (MHz)	Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	Polar (H/V)
Low Channel (2402 MHz)-Above 1G							
4804.174	59.26	-3.64	62.90	74.00	-11.10	Pk	Vertical
4804.174	41.65	-3.64	45.29	54.00	-8.71	AV	Vertical
7206.251	59.41	-0.95	60.36	74.00	-13.64	Pk	Vertical
7206.251	37.56	-0.95	38.51	54.00	-15.49	AV	Vertical
4804.308	59.65	-3.64	63.29	74.00	-10.71	Pk	Horizontal
4804.308	42.57	-3.64	46.21	54.00	-7.79	AV	Horizontal
7206.094	57.61	-0.95	58.56	74.00	-15.44	Pk	Horizontal
7206.094	37.43	-0.95	38.38	54.00	-15.62	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G							
4880.066	59.11	-3.68	62.79	74.00	-11.21	Pk	Vertical
4880.066	41.18	-3.68	44.86	54.00	-9.14	AV	Vertical
7320.179	58.57	-0.82	59.39	74.00	-14.61	Pk	Vertical
7320.179	39.66	-0.82	40.48	54.00	-13.52	AV	Vertical
4880.206	61.01	-3.68	64.69	74.00	-9.31	Pk	Horizontal
4880.206	44.21	-3.68	47.89	54.00	-6.11	AV	Horizontal
7320.307	58.56	-0.82	59.38	74.00	-14.62	Pk	Horizontal
7320.307	38.61	-0.82	39.43	54.00	-14.57	AV	Horizontal
High Channel (2480MHz)- Above 1G							
4960.174	58.43	-3.59	62.02	74.00	-11.98	Pk	Vertical
4960.174	41.28	-3.59	44.87	54.00	-9.13	AV	Vertical
7440.311	56.93	-0.68	57.61	74.00	-16.39	Pk	Vertical
7440.311	41.16	-0.68	41.84	54.00	-12.16	AV	Vertical
4960.219	58.26	-3.59	61.85	74.00	-12.15	Pk	Horizontal
4960.219	41.48	-3.59	45.07	54.00	-8.93	AV	Horizontal
7440.233	59.79	-0.68	60.47	74.00	-13.53	Pk	Horizontal
7440.233	38.63	-0.68	39.31	54.00	-14.69	AV	Horizontal

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz- Adapter 2
Test Mode :	TX		

Frequency (MHz)	Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	Polar (H/V)
Low Channel (2402 MHz)-Above 1G							
4804.342	57.37	-3.64	61.01	74.00	-12.99	Pk	Vertical
4804.342	39.71	-3.64	43.35	54.00	-10.65	AV	Vertical
7206.246	57.52	-0.95	58.47	74.00	-15.53	Pk	Vertical
7206.246	35.67	-0.95	36.62	54.00	-17.38	AV	Vertical
4804.088	58.11	-3.64	61.75	74.00	-12.25	Pk	Horizontal
4804.088	40.61	-3.64	44.25	54.00	-9.75	AV	Horizontal
7206.136	55.72	-0.95	56.67	74.00	-17.33	Pk	Horizontal
7206.136	35.54	-0.95	36.49	54.00	-17.51	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G							
4880.247	57.22	-3.68	60.90	74.00	-13.10	Pk	Vertical
4880.247	39.26	-3.68	42.94	54.00	-11.06	AV	Vertical
7320.136	56.61	-0.82	57.43	74.00	-16.57	Pk	Vertical
7320.136	37.47	-0.82	38.29	54.00	-15.71	AV	Vertical
4880.307	59.12	-3.68	62.80	74.00	-11.20	Pk	Horizontal
4880.307	42.26	-3.68	45.94	54.00	-8.06	AV	Horizontal
7320.149	56.59	-0.82	57.41	74.00	-16.59	Pk	Horizontal
7320.149	36.72	-0.82	37.54	54.00	-16.46	AV	Horizontal
High Channel (2480MHz)- Above 1G							
4960.206	56.54	-3.59	60.13	74.00	-13.87	Pk	Vertical
4960.206	39.39	-3.59	42.98	54.00	-11.02	AV	Vertical
7440.309	55.01	-0.68	55.69	74.00	-18.31	Pk	Vertical
7440.309	39.27	-0.68	39.95	54.00	-14.05	AV	Vertical
4960.147	56.37	-3.59	59.96	74.00	-14.04	Pk	Horizontal
4960.147	39.57	-3.59	43.16	54.00	-10.84	AV	Horizontal
7440.073	57.96	-0.68	58.64	74.00	-15.36	Pk	Horizontal
7440.073	36.74	-0.68	37.42	54.00	-16.58	AV	Horizontal

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading-Factor

Margin = Emission Level- Limit

#### 4. POWER SPECTRAL DENSITY TEST

##### 4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C/ RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247/ RSS-210§A8. 2 (b)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

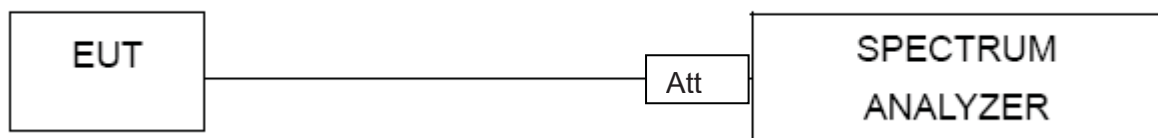
##### 4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW  $\geq$  3 kHz.
4. Set the VBW  $\geq$  3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

##### 4.1.2 DEVIATION FROM STANDARD

No deviation.

##### 4.1.3 TEST SETUP



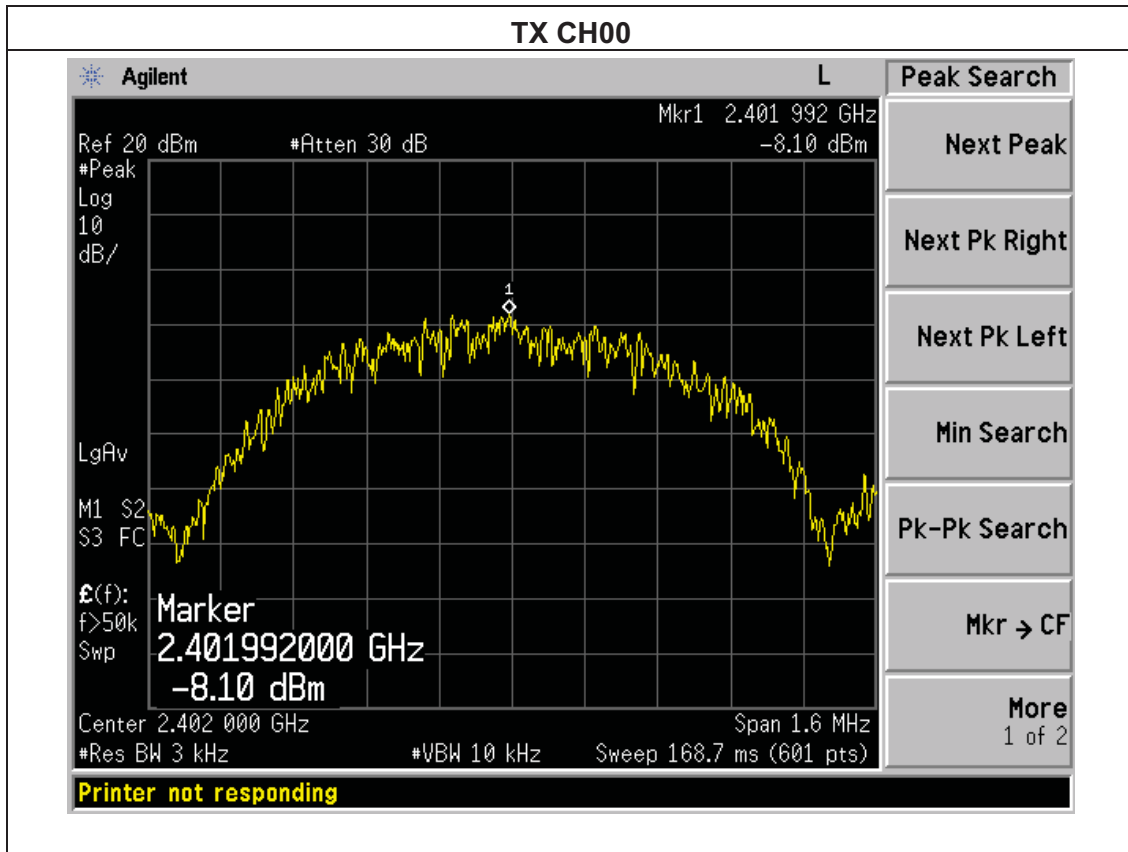
##### 4.1.4 EUT OPERATION CONDITIONS

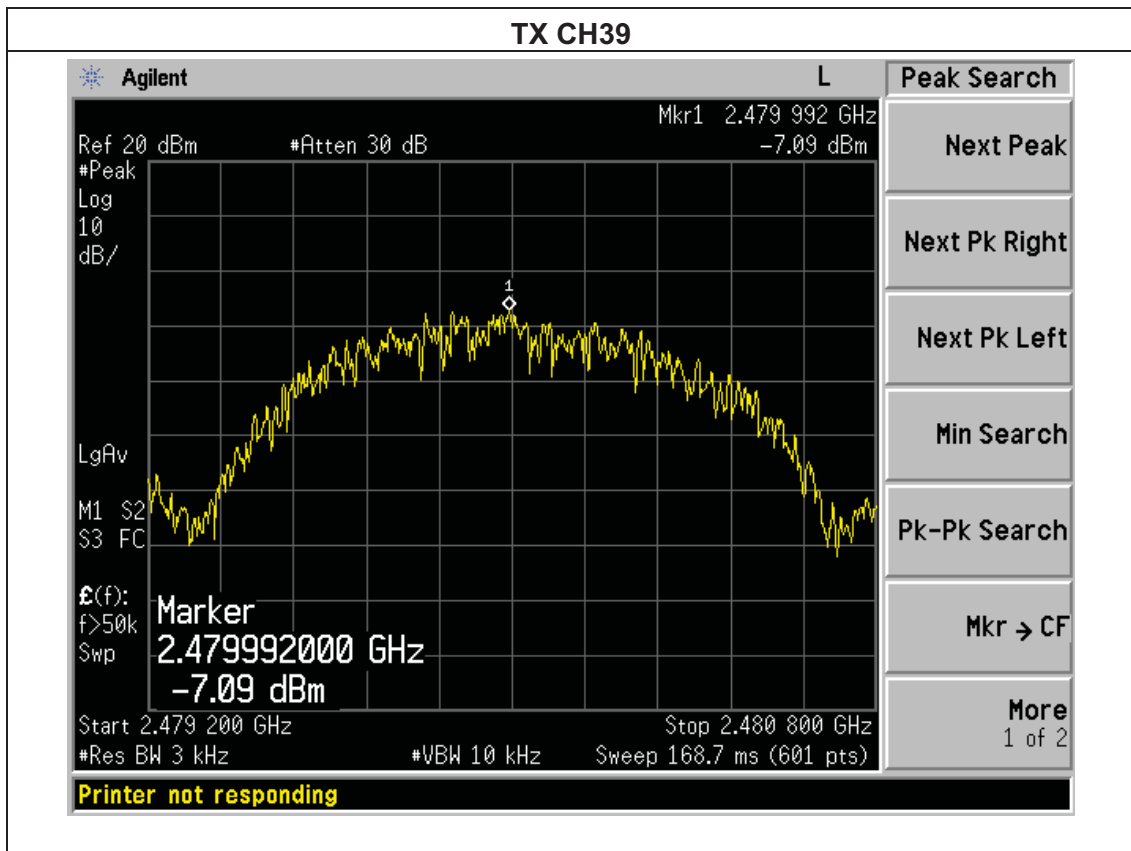
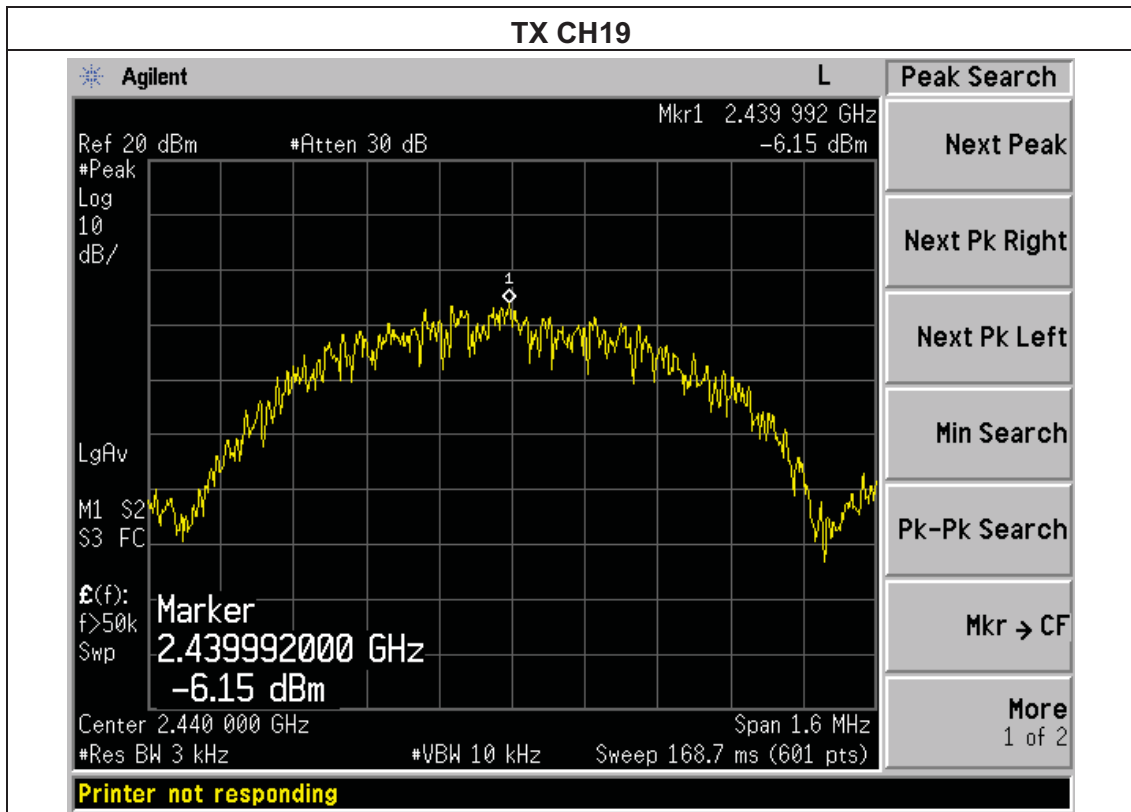
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

### 4.1.5 TEST RESULTS

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Mode /CH00, CH19, CH39		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-8.10	8	PASS
2440 MHz	-6.15	8	PASS
2480 MHz	-7.09	8	PASS







## 5. BANDWIDTH TEST

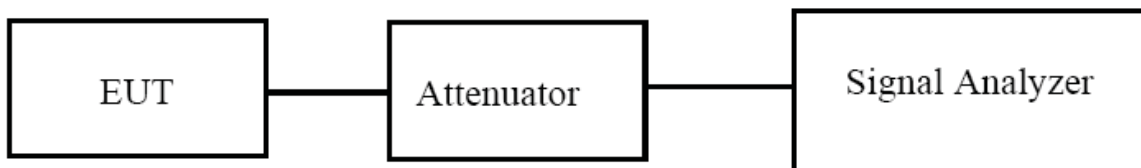
### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C/ RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)/ RSS-Gen§4.6 .1&RSS-210§ A8.2 (a)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

#### 5.1.1 TEST PROCEDURE

According to KDB 558074 D01 DTS Meas Guidance v03r01

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



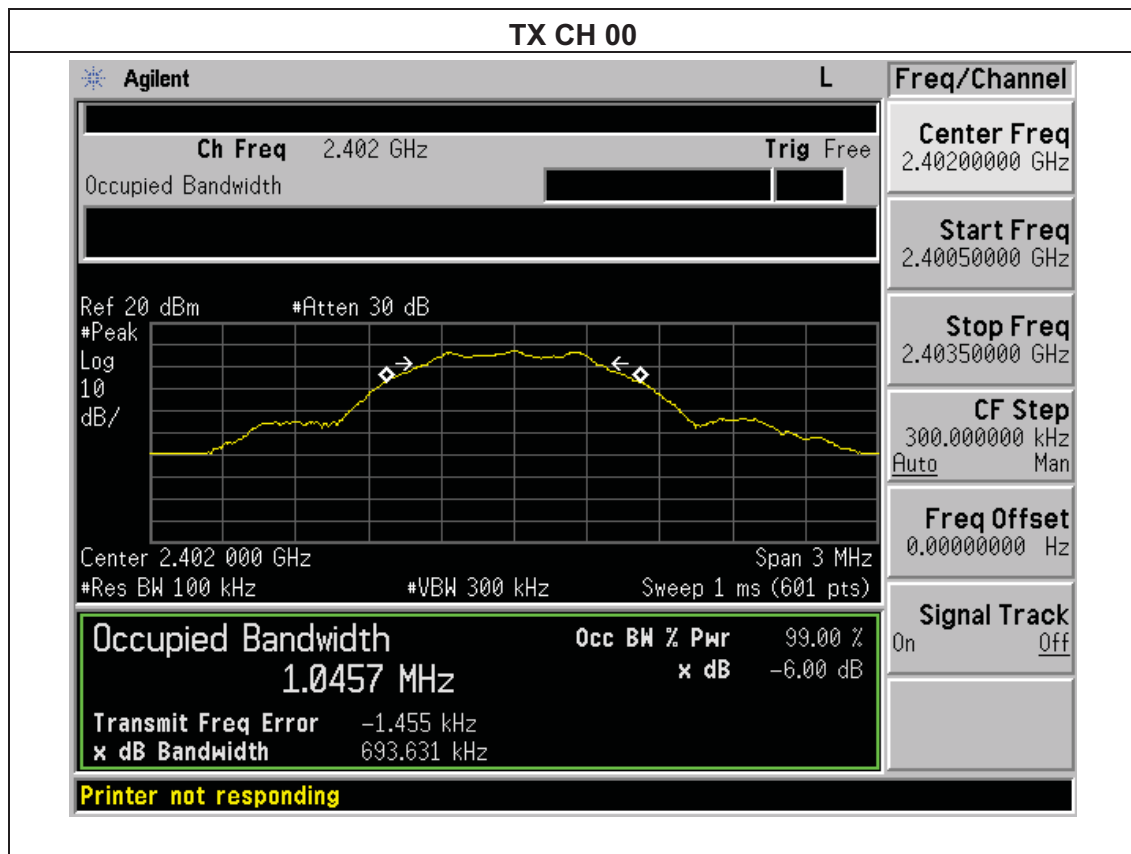
#### 5.1.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.1.3 TEST RESULTS

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Mode /CH00, CH19, CH39		

Channel	Frequency (MHz)	6dB bandwidth (kHz)	99% Bandwidth (MHz)	Limit (kHz)	Result
Low	2402	693.631	1.046	500	Pass
Middle	2440	695.371	1.050	500	Pass
High	2480	682.542	1.051	500	Pass



### TX CH 19

<div style="display: flex; justify-content: space-between;"> <span>Agilent</span> <span>L</span> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;"><b>Ch Freq</b> 2.44 GHz <span style="float: right;"><b>Trig</b> Free</span></p> <p>Occupied Bandwidth <span style="float: right;">█</span></p> </div> <div style="margin-top: 10px;"> <p>Ref 20 dBm #Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/</p> <p style="text-align: center;">Center 2.440 000 GHz <span style="float: right;">Span 3 MHz</span></p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><b>Occupied Bandwidth</b></td> <td style="width: 20%;"><b>Occ BW</b></td> <td style="width: 20%;"><b>% Pwr</b></td> <td style="width: 20%; text-align: right;">99.00 %</td> </tr> <tr> <td style="text-align: center;">1.0500 MHz</td> <td></td> <td style="text-align: center;">x dB</td> <td style="text-align: right;">-6.00 dB</td> </tr> <tr> <td><b>Transmit Freq Error</b></td> <td colspan="3" style="text-align: right;">-6.680 kHz</td> </tr> <tr> <td><b>x dB Bandwidth</b></td> <td colspan="3" style="text-align: right;">695.371 kHz</td> </tr> </table> </div> <div style="background-color: yellow; padding: 2px; margin-top: 5px;"> <b>Printer not responding</b> </div>	<b>Occupied Bandwidth</b>	<b>Occ BW</b>	<b>% Pwr</b>	99.00 %	1.0500 MHz		x dB	-6.00 dB	<b>Transmit Freq Error</b>	-6.680 kHz			<b>x dB Bandwidth</b>	695.371 kHz			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Freq/Channel</th> </tr> <tr> <td><b>Center Freq</b> 2.44000000 GHz</td> </tr> <tr> <td><b>Start Freq</b> 2.43850000 GHz</td> </tr> <tr> <td><b>Stop Freq</b> 2.44150000 GHz</td> </tr> <tr> <td><b>CF Step</b> 300.000000 kHz Auto Man</td> </tr> <tr> <td><b>Freq Offset</b> 0.00000000 Hz</td> </tr> <tr> <td><b>Signal Track</b> On Off</td> </tr> </table>	Freq/Channel	<b>Center Freq</b> 2.44000000 GHz	<b>Start Freq</b> 2.43850000 GHz	<b>Stop Freq</b> 2.44150000 GHz	<b>CF Step</b> 300.000000 kHz Auto Man	<b>Freq Offset</b> 0.00000000 Hz	<b>Signal Track</b> On Off
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<b>Signal Track</b> On Off																								

### TX CH 39

<div style="display: flex; justify-content: space-between;"> <span>Agilent</span> <span>L</span> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;"><b>Ch Freq</b> 2.48 GHz <span style="float: right;"><b>Trig</b> Free</span></p> <p>Occupied Bandwidth <span style="float: right;">█</span></p> </div> <div style="margin-top: 10px;"> <p style="text-align: center;"><b>Center 2.480000000 GHz</b></p> <p>Ref 20 dBm #Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/</p> <p style="text-align: center;">Center 2.480 000 GHz <span style="float: right;">Span 3 MHz</span></p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><b>Occupied Bandwidth</b></td> <td style="width: 20%;"><b>Occ BW</b></td> <td style="width: 20%;"><b>% Pwr</b></td> <td style="width: 20%; text-align: right;">99.00 %</td> </tr> <tr> <td style="text-align: center;">1.0510 MHz</td> <td></td> <td style="text-align: center;">x dB</td> <td style="text-align: right;">-6.00 dB</td> </tr> <tr> <td><b>Transmit Freq Error</b></td> <td colspan="3" style="text-align: right;">-6.971 kHz</td> </tr> <tr> <td><b>x dB Bandwidth</b></td> <td colspan="3" style="text-align: right;">682.542 kHz</td> </tr> </table> </div> <div style="background-color: yellow; padding: 2px; margin-top: 5px;"> <b>Printer not responding</b> </div>	<b>Occupied Bandwidth</b>	<b>Occ BW</b>	<b>% Pwr</b>	99.00 %	1.0510 MHz		x dB	-6.00 dB	<b>Transmit Freq Error</b>	-6.971 kHz			<b>x dB Bandwidth</b>	682.542 kHz			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Freq/Channel</th> </tr> <tr> <td><b>Center Freq</b> 2.48000000 GHz</td> </tr> <tr> <td><b>Start Freq</b> 2.47850000 GHz</td> </tr> <tr> <td><b>Stop Freq</b> 2.48150000 GHz</td> </tr> <tr> <td><b>CF Step</b> 300.000000 kHz Auto Man</td> </tr> <tr> <td><b>Freq Offset</b> 0.00000000 Hz</td> </tr> <tr> <td><b>Signal Track</b> On Off</td> </tr> </table>	Freq/Channel	<b>Center Freq</b> 2.48000000 GHz	<b>Start Freq</b> 2.47850000 GHz	<b>Stop Freq</b> 2.48150000 GHz	<b>CF Step</b> 300.000000 kHz Auto Man	<b>Freq Offset</b> 0.00000000 Hz	<b>Signal Track</b> On Off
<b>Occupied Bandwidth</b>	<b>Occ BW</b>	<b>% Pwr</b>	99.00 %																					
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<b>Freq Offset</b> 0.00000000 Hz																								
<b>Signal Track</b> On Off																								

**6. MAX CONDUCTED OUTPUT POWER TEST**

**6.1 APPLIED PROCEDURES / LIMIT**

FCC Part15 (15.247) , Subpart C/ RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)/ RSS-210 §A8.4 (4)	Max Conducted output power	1 watt or 30dBm	2400-2483.5	PASS

**6.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the Power meter

**6.1.2 DEVIATION FROM STANDARD**

No deviation.

**6.1.3 TEST SETUP**



**6.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.5 TEST RESULTS

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Mode		

Test Channe	Frequency	Maximum Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2402	8.33	30
CH19	2440	8.09	30
CH39	2480	8.13	30

**7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE**

**APPLICABLE STANDARD**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

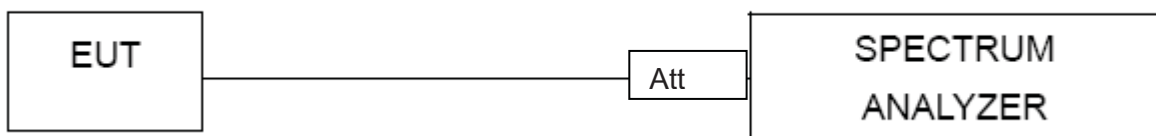
**TEST PROCEDURE**

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

**7.1 DEVIATION FROM STANDARD**

No deviation.

**7.2 TEST SETUP**



**7.3 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 7.4 TEST RESULTS

EUT :	25"2.0 Sound Stand	Model Name :	SS2520-C6
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz

Frequency Band	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
2390	51.01	30	Pass
2483.5	60.89	30	Pass

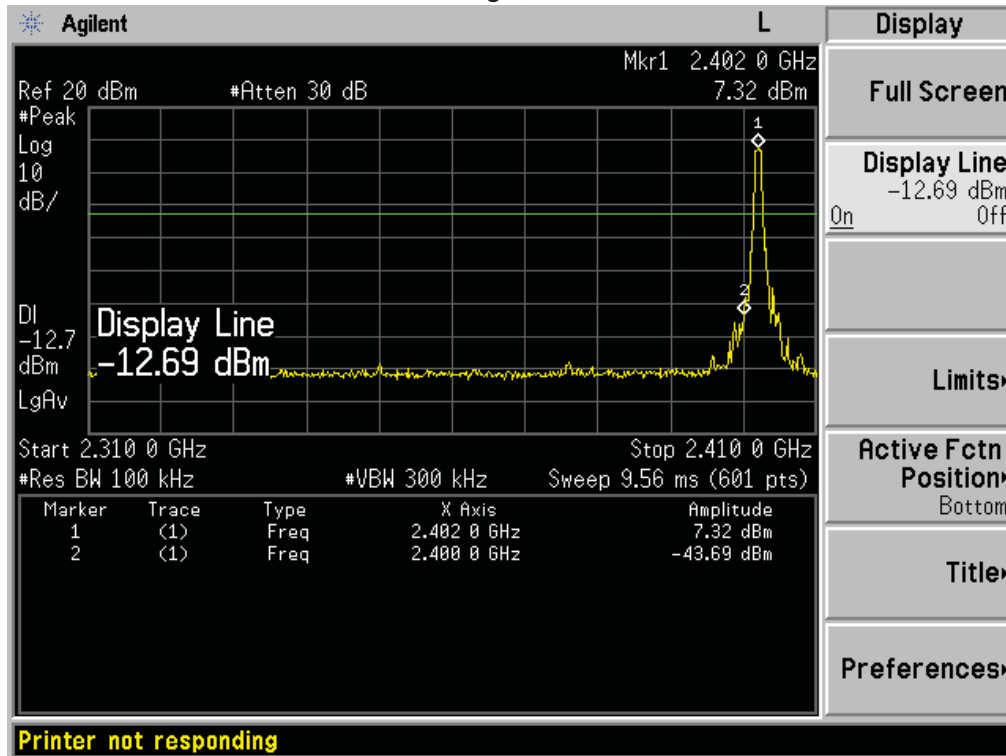
Radiated band edge:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	Comment
2390	60.57	-13.06	47.51	74	-26.49	peak	Vertical
2390	60.31	-13.06	47.25	74	-26.75	peak	Horizontal
2483.5	61.54	-12.78	48.76	74	-25.24	peak	Vertical
2483.5	61.55	-12.78	48.77	74	-25.23	peak	Horizontal

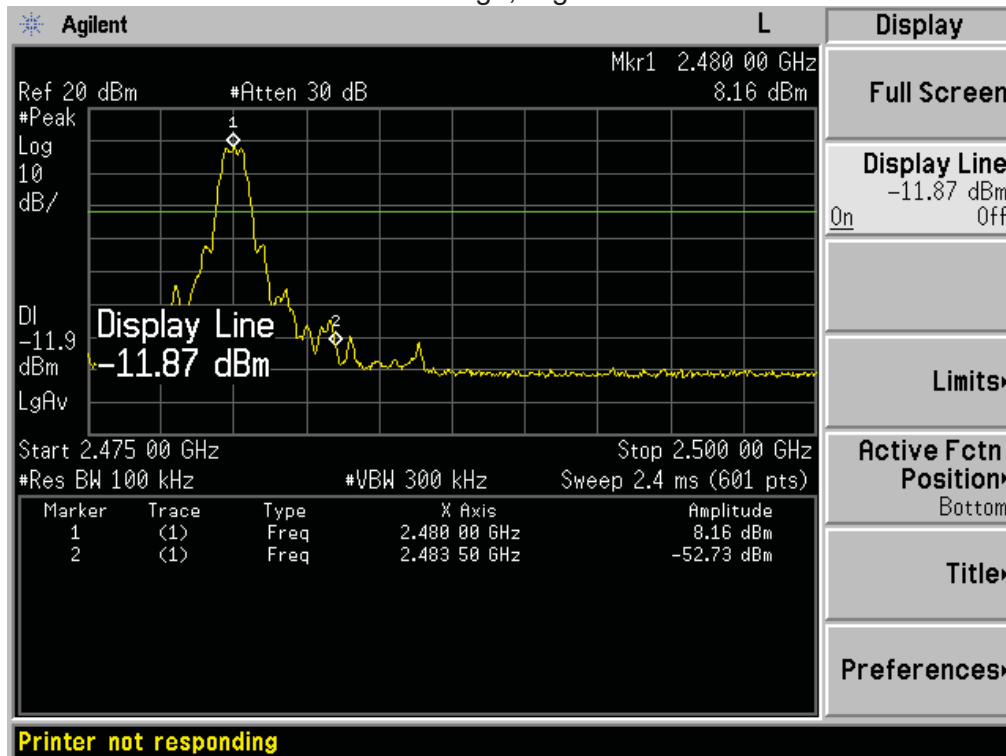
Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

Remark : Meter Reading +Factor= Emission Level

Band Edge, Left Side



Band Edge, Right Side





## **8. ANTENNA REQUIREMENT**

### **8.1 STANDARD REQUIREMENT**

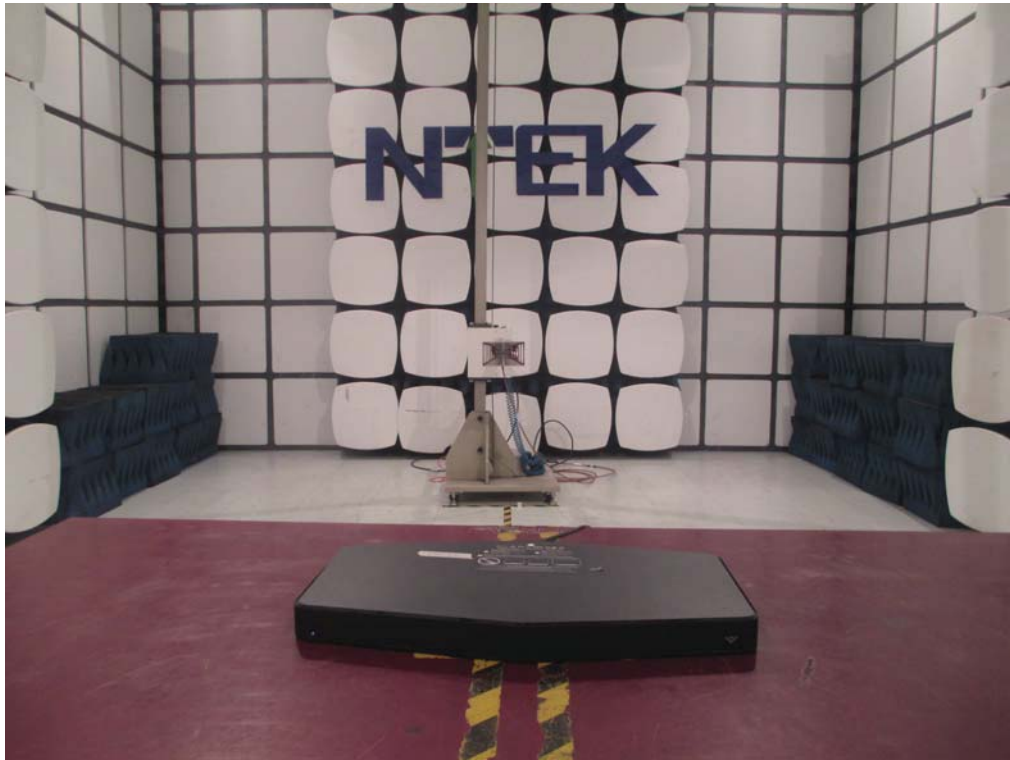
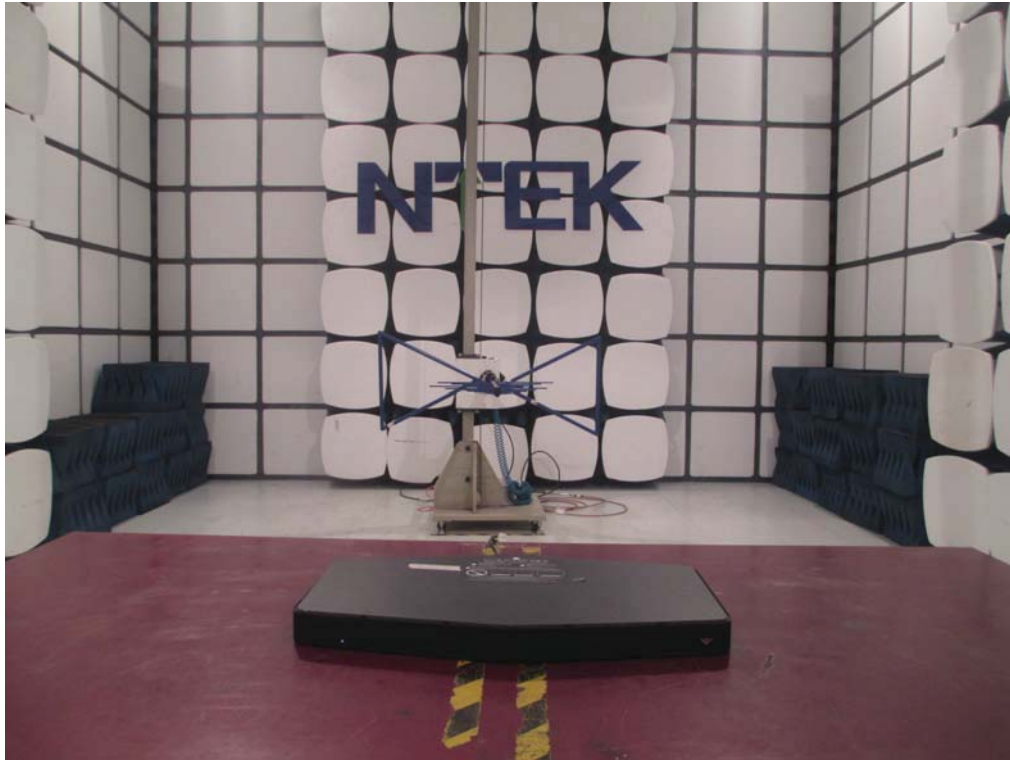
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **8.2 EUT ANTENNA**

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

**9. EUT TEST PHOTO**

**Radiated Measurement Photos**



**Conducted Measurement Photos**

