



## FCC and IC TEST REPORT

for

Meiloon Industrial Co., Ltd

Internet Radio

Model Number: AirStream20USA

Prepared for : Meiloon Industrial Co., Ltd  
Address : No.77, Lane 1775, Chuen-Ryh Road, Taoyuan City, TaiWan

Prepared By : NS Technology Co., Ltd.  
Address : Chenwu Industrial Zone, Houjie Town, Dongguan City,  
Guangdong, China

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Report Number : NSE-F10105363  
Date of Test : Sept. 20~Sept. 29, 2010  
Date of Report : Oct. 15, 2010



## TABLE OF CONTENTS

	Page
Test Report Declaration	Page
<b>1. GENERAL PRODUCT INFORMATION</b>	<b>4</b>
1.1. Product Function .....	4
1.2. Description of Device (EUT) .....	4
1.3. Difference between Model Numbers .....	4
1.4. Independent Operation Modes .....	4
1.5. Test Support System .....	4
<b>2. TEST SITES</b>	<b>5</b>
2.1. Test Facilities .....	5
2.2. List of Test and Measurement Instruments .....	6
<b>3. TEST SET-UP AND OPERATION MODES</b>	<b>7</b>
3.1. Principle of Configuration Selection .....	7
3.2. Block Diagram of Test Set-up .....	7
3.3. Test Operation Mode and Test Software .....	7
3.4. Special Accessories and Auxiliary Equipment .....	7
3.5. Countermeasures to Achieve EMC Compliance .....	7
<b>4. TEST SUMMARY</b>	<b>8</b>
<b>5. DATA RATE VS POWER</b>	<b>9</b>
<b>6. EMISSION TEST RESULTS</b>	<b>10</b>
6.1. Conducted Emission at The Mains Terminals Test .....	10
6.2. Radiated Emission .....	15
6.3. Conducted emission test data .....	47
6.4. 6dB Bandwidth .....	50
6.5. 99% Bandwidth .....	52
6.6. Power Spectral Density Test .....	54
6.7. Output Power Test .....	56
6.8. Band Edge .....	57
6.9. ANTENNA REQUIREMENT .....	74



## NS Technology Co., Ltd.

<b>Applicant:</b>	Meiloon Industrial Co., Ltd		
<b>Address:</b>	No.77, Lane 1775, Chuen-Ryh Road, Taoyuan City, TaiWan		
<b>Manufacturer:</b>	DONGGUAN MEILOON ACOUSTIC EQUIPMENTS CO.,LTD		
<b>Address:</b>	NO.77 YUANLINROAD FENGHUANGGANG IND ESTATE TANGXIA DONGGUAN GUANGDONG		
<b>E.U.T:</b>	Internet Radio		
<b>Model Number:</b>	AirStream20USA		
<b>Trade Name:</b>	Monitor Audio		
<b>Operating Frequency:</b>	IEEE 802.11b/g:2412~2462MHz		
<b>Date of Receipt:</b>	Aug.17, 2010	<b>Date of Test:</b>	Sept. 20~Sept. 29, 2010
<b>Test Specification:</b>	FCC Part15C :Oct.1, 2009 ANSI C63.4:2003 RSS-210,Issue 7 June 2007 RSS-GEN, Issue 2 June 2007		
<b>Test Result:</b>	The equipment under test was found to be compliance with the requirements of the standards applied.		
<b>Issue Date: Oct. 15, 2010</b>			
Tested by:	Reviewed by:	Approved by:	
Jade/ Engineer	Jade yang / Supervisor	Chris Du / Manager	
<b>Other Aspects:</b> None.			
Abbreviations: OK/P=passed      fail/F=failed      n.a/N=not applicable      E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd.			



# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

## 1.2. Description of Device (EUT)

E.U.T.	: Internet Radio
Model No.	: AirStream20USA
Operating Frequency	: IEEE 802.11b/g 2412~2462MHz
Number of Channels	: 11 Channels
Type of Modulation	: DSSS for IEEE 802.11b and OFDM for IEEE 802.11g
Antenna Type	: Integral
Antenna Gain	: 2.6dBi
System Input Voltage	: DC 12V from adapter input AC 120V/60Hz
Temperature Range(Operating)	: 0 ~+ 40°C
Aux in Line	: Unshielded, Detachable 1.2m
Audio out Line	: Unshielded, Detachable 1.2m
Earphone Line	: Unshielded, Detachable 1.0m
LAN Line	: Unshielded, Detachable 10m
Adapter	: M/N: GPE603-120300W Input: AC 100-240V 50-60Hz Output: DC 12V 3A DC Line: Unshielded, Undetachable 2.0m

## 1.3. Difference between Model Numbers

## 1.4. Independent Operation Modes

The basic operation modes are:

- 1.4.1 TX CH1 80.211b (2412MHz)
- 1.4.2. TX CH6 802.11b (2437MHz)
- 1.4.3. TX CH11 802.11b (2462MHz)
- 1.4.4. TX CH1 802.11g (2412MHz)
- 1.4.5. TX CH6 802.11g (2437MHz)
- 1.4.6. TX CH11 802.11g (2462MHz)

## 1.5. Test Support System

### 1.5.1. iPod 1

Model Number	: MB147H
Manufacturer	: Apple
Serial Number	: JQ74121YMV
Audio line	: Unshielded, Detachable, 0.5m

### 1.5.2. iPod 2

Model Number	: A1285
Manufacturer	: APPLE
Serial Number	: SU902AC83R0



## 2. TEST SITES

### 2.1. Test Facilities

EMC Lab : Accredited by TUV Rheinland, Germany  
Date of registration: July 28, 2003

Accredited by CNAS, China  
Registration No.: L1744  
Date of registration: November 25, 2004

Accredited by Intertek ETL SEMKO  
Registration No.: TMP-013  
Date of registration: June 11, 2005

Accredited by TUV/PS, Hong Kong  
Date of registration: December 1, 2005

Accredited by ATCB, USA  
Date of registration: August 3, 2006

Accredited by VCCI, Japan  
Member No.:2115  
Registration No.: R-2527, R-3012 & C-2770  
Date of registration: March 23, 2007

Accredited by FCC, USA  
Registration No.: 502831  
Date of registration: February 9, 2009

Accredited by Industry Canada  
Registration No.: 5936A  
Date of registration: March 4, 2009

Accredited by American Association for Laboratory  
Accreditation (A2LA), USA  
Certificate No.: 2951.01  
Date of registration: March 31, 2010

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City,  
Guangdong, China



## 2.2. List of Test and Measurement Instruments

### 2.2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	100199	May 30,10	May 30,11
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 30,10	May 30,11
Artificial Mains Network (AUX)	Kyoritsu	KNW-407	8-1579-1	May 30,10	May 30,11
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100168	May 2,10	May 2,11

### 2.2.2. For radiated emission test (30MHz-1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCS30	100340	May 30,10	May 30,11
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 30,10	May 30,11
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 27,09	Oct. 27,10
Signal Amplifier	Agilent	8447D	2944A10488	May 2,10	May 2,11
50Ω Coaxial Switch	ANRITSU	MP59B	6200530577	May 2,10	May 2,11

### 2.2.3. For radiated emission test(Above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 30,10	May 30,11
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30M18G -12-SFF	NSEMC001	May 31,09	May 31,11

### 2.2.4. For output power Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	Rohde&Schwarz	NRVS	101732	May 30,10	May 30,11
100V Insertion Unit 50Ω	Rohde&Schwarz	URV5-Z4	100207	May 30,10	May 30,11

### 2.2.5. For power spectral density;6dB&99% bandwith Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSL3	101507	May 30,10	May 30,11

### 2.2.6. For Band edge compliance test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 30,10	May 30,11
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30M18G -12-SFF	NSEMC001	May 31,09	May 31,11

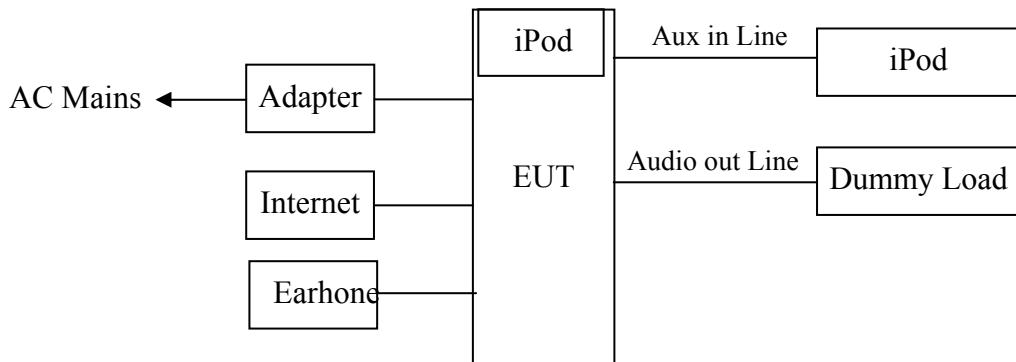
### 3. TEST SET-UP AND OPERATION MODES

#### 3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

#### 3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators



(EUT : Internet Radio)

#### 3.3. Test Operation Mode and Test Software

Refer to clause 1.4

#### 3.4. Special Accessories and Auxiliary Equipment

None.

#### 3.5. Countermeasures to Achieve EMC Compliance

None.

## 4. TEST SUMMARY

Test items and result lists

No.	Item	Standard	Results
1	Data rate VS Power	N/A	Pass
2	Conduction Emission Test	FCC Part15C: 15.207 ANSI C63.4-2003 KDB558074 RSS-210 RSS-GEN	Pass
3	Radiated Emission Test	FCC Part15C: 15.209 ANSI C63.4-2003 KDB558074 RSS-210 RSS-GEN	PASS
4	6dB and 99% Bandwith Test	FCC Part15: 15.247 KDB558074 RSS-210 RSS-GEN	PASS
5	Power Spectral Density Test	FCC Part15: 15.247 KDB558074 RSS-210 RSS-GEN	PASS
6	Output Power Test	FCC Part15: 15.247 KDB558074 RSS-210 RSS-GEN	PASS
7	Band Edge Compliance Test	FCC Part15: 15.247 KDB558074 RSS-210 RSS-GEN	PASS
8	Antenna requirement	FCC Part 15:15.203 RSS-210 RSS-GEN	PASS

## 5. DATA RATE VS POWER

Mode	data rate (Mbps)	CH	Read (dBm)	Factor (dB)	Result (dBm)
11b	1	CH6	10.17	3.50	13.67
	2	CH6	10.15	3.50	13.65
	5.5	CH6	10.86	3.50	14.36
	11	CH6	10.10	3.50	13.60
11g	54	CH6	11.07	3.50	14.57
	48	CH6	11.13	3.50	14.63
	36	CH6	11.09	3.50	14.59
	24	CH6	11.11	3.50	14.61
	18	CH6	11.24	3.50	14.74
	12	CH6	11.06	3.50	14.56
	9	CH6	11.30	3.50	14.80
	6	CH6	11.21	3.50	14.71
Result=Read+Factor When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.					

## 6. EMISSION TEST RESULTS

### 6.1. Conducted Emission at The Mains Terminals Test

<b>RESULT</b>	<b>Pass</b>
Test procedure	FCC Part 15 Subpart B RSS-GEN Issue 2
Frequency range	0.15~30MHz
Test Site	Shielded Room
Limits	FCC Part 15 Subpart B Class B RSS-GEN Issue 2 7.2.2

#### **Test Setup**

Date of test	Sept. 23, 2010
Model No.	AirStream20USA
Input Voltage	DC 12V from adapter input AC 120V/60Hz
Operation Mode	TX Mode;RX Mode

The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded at the cable centre into a bundle no longer than 0.4 m.

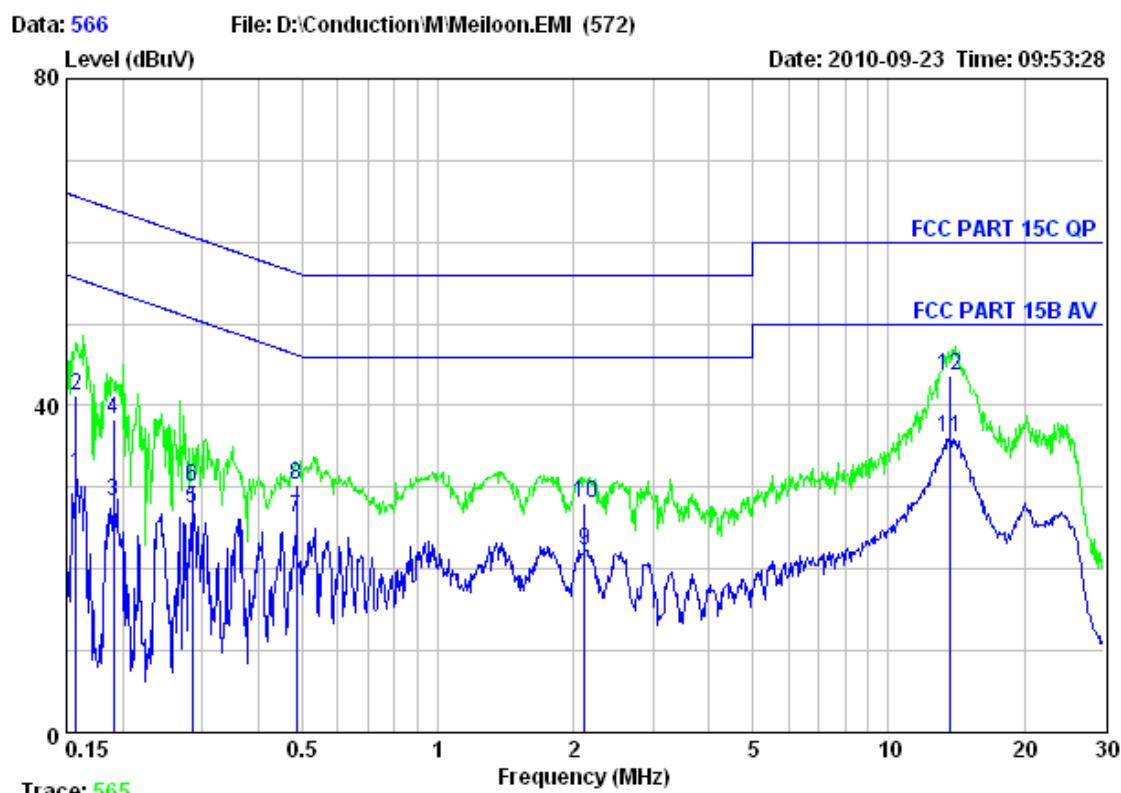
The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver (R&S ESCS30) was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.

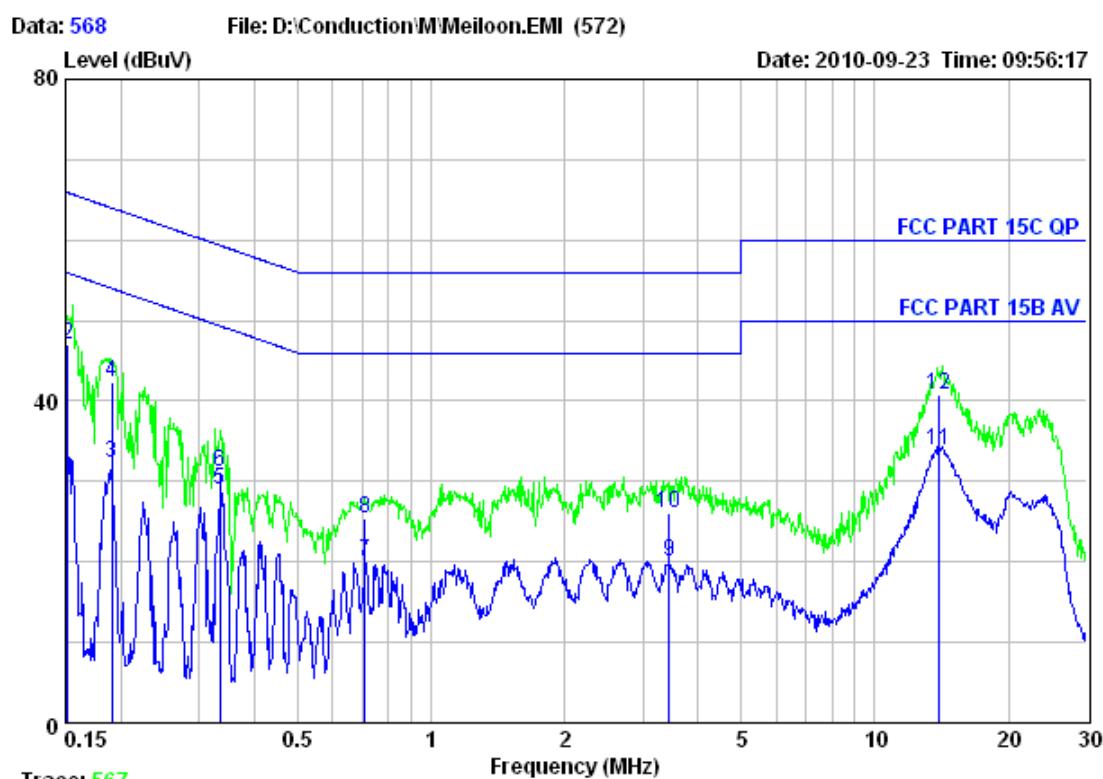
Note: Test uncertainty:  $\pm 2.54\text{dB}$  at a level of confidence of 95%.:



	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	31.57	55.60	24.03	Average
2	0.16	41.29	65.60	24.31	QP
3	0.19	28.29	54.02	25.73	Average
4	0.19	38.27	64.02	25.75	QP
5	0.28	27.42	50.68	23.26	Average
6	0.28	30.16	60.68	30.52	QP
7	0.49	26.19	46.23	20.04	Average
8	0.49	30.24	56.23	25.99	QP
9	2.12	22.28	46.00	23.72	Average
10	2.12	28.14	56.00	27.86	QP
11	13.70	36.13	50.00	13.87	Average
12	13.70	43.67	60.00	16.33	QP

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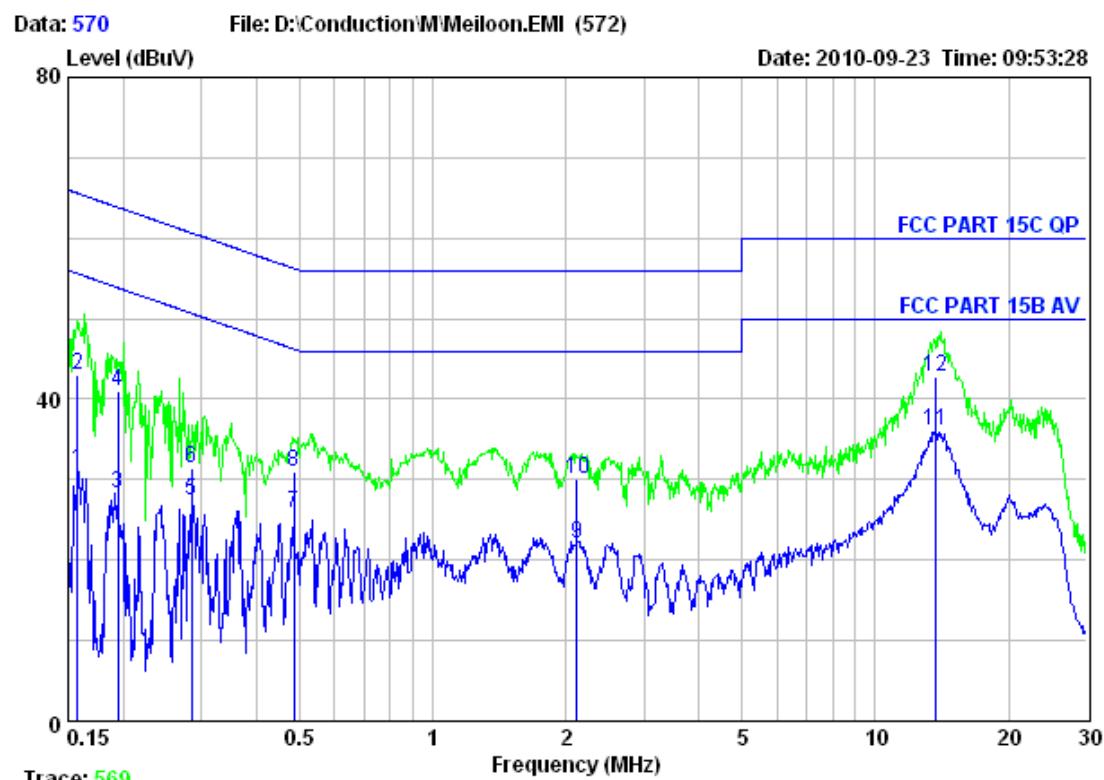


Test Site : 843 Shielded Room  
Limit : FCC PART 15C QP LINE Phase:NEUTRAL  
EUT : Internet Radio  
Power : DC 12V from adapter input AC 120V/60Hz  
M/N : AirStream20USA  
Test Engineer: Jade  
Comment : Temp:24.9°C Humi:53% Press:101.36kPa  
Test Mode : TX Mode

	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
<hr/>					
1	0.15	34.85	55.91	21.06	Average
2	0.15	46.95	65.91	18.96	QP
3	0.19	32.28	54.02	21.74	Average
4	0.19	42.26	64.02	21.76	QP
5	0.33	29.06	49.35	20.29	Average
6	0.33	31.18	59.35	28.17	QP
7	0.71	20.11	46.00	25.89	Average
8	0.71	25.51	56.00	30.49	QP
9	3.44	20.06	46.00	25.94	Average
10	3.44	26.13	56.00	29.87	QP
11	13.91	33.94	50.00	16.06	Average
12	13.91	40.86	60.00	19.14	QP

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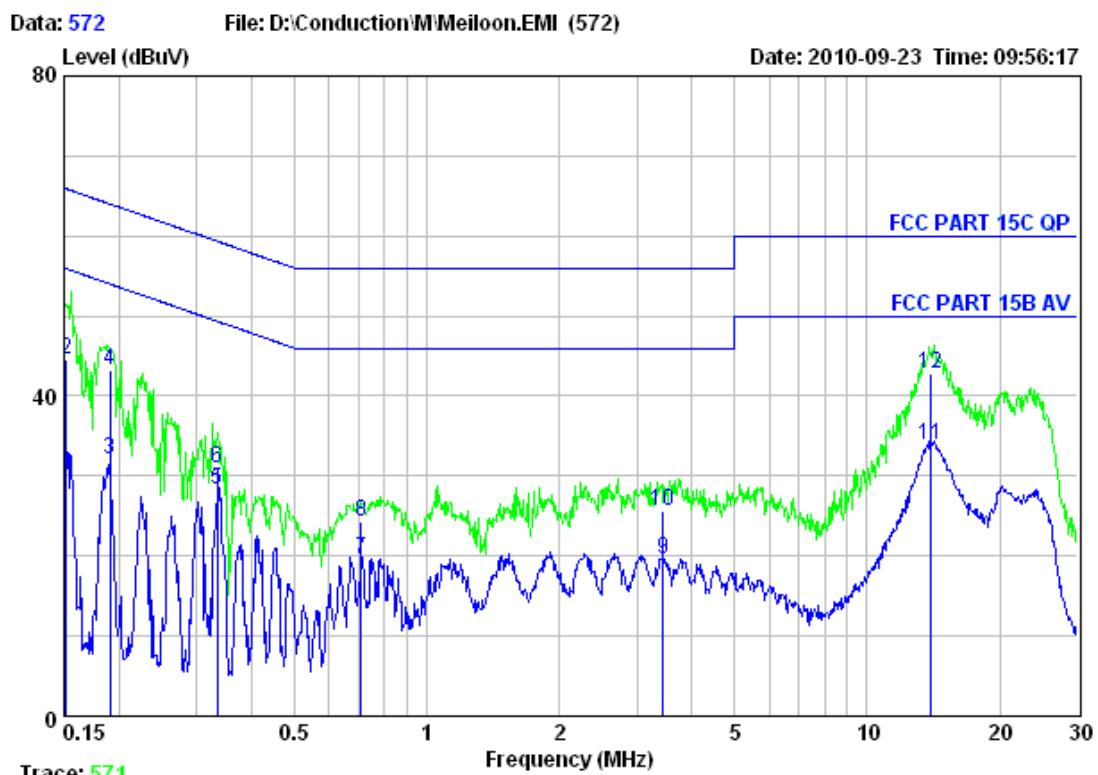


Test Site : 843 Shielded Room  
Limit : FCC PART 15C QP LINE Phase:LINE  
EUT : Internet Radio  
Power : DC 12V from adapter input AC 120V/60Hz  
M/N : AirStream20USA  
Test Engineer: Jade  
Comment : Temp:24.9'C Humi:53% Press:101.36kPa  
Test Mode : RX Mode

Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
<hr/>				
1	0.16	31.26	24.34	Average
2	0.16	43.11	22.49	QP
3	0.19	28.26	25.58	Average
4	0.19	40.91	22.93	QP
5	0.28	27.51	23.17	Average
6	0.28	31.53	29.15	QP
7	0.49	25.96	20.27	Average
8	0.49	30.97	25.26	QP
9	2.12	22.09	23.91	Average
10	2.12	30.06	25.94	QP
11	13.70	36.07	13.93	Average
12	13.70	42.84	17.16	QP

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	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	33.94	55.91	21.97	Average
2	0.15	44.58	65.91	21.33	QP
3	0.19	32.16	54.02	21.86	Average
4	0.19	43.15	64.02	20.87	QP
5	0.33	28.27	49.35	21.08	Average
6	0.33	31.08	59.35	28.27	QP
7	0.71	19.68	46.00	26.32	Average
8	0.71	24.32	56.00	31.68	QP
9	3.44	19.66	46.00	26.34	Average
10	3.44	25.61	56.00	30.39	QP
11	13.91	33.96	50.00	16.04	Average
12	13.91	42.86	60.00	17.14	QP

## 6.2. Radiated Emission

### 6.2.1. Test limits

- 1) FCC PART 15C 15.209
- 2) RSS-210

### 6.2.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 kHz and 300kHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than  $1/T$ , so the video bandwidth is 10Hz.

In 18GHz to 25GHz, The EUT was checked by Horn ANT . But the test result is background.

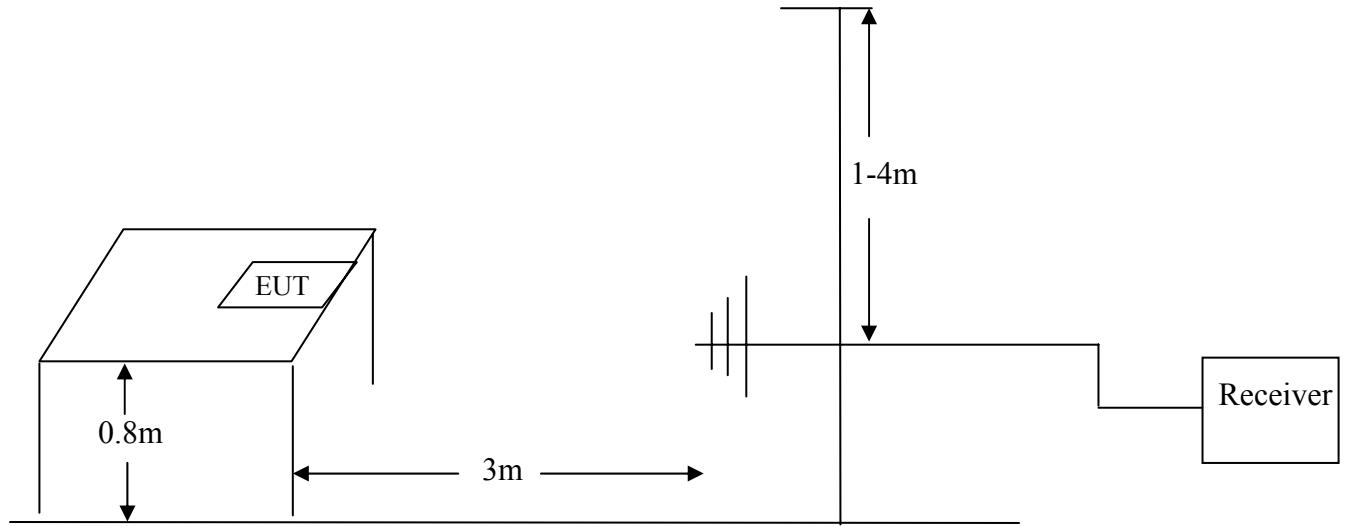
The EUT was tested in Chamber Site.

Note: Test uncertainty:  $\pm 2.62\text{dB}$  at a level of confidence of 95%.:

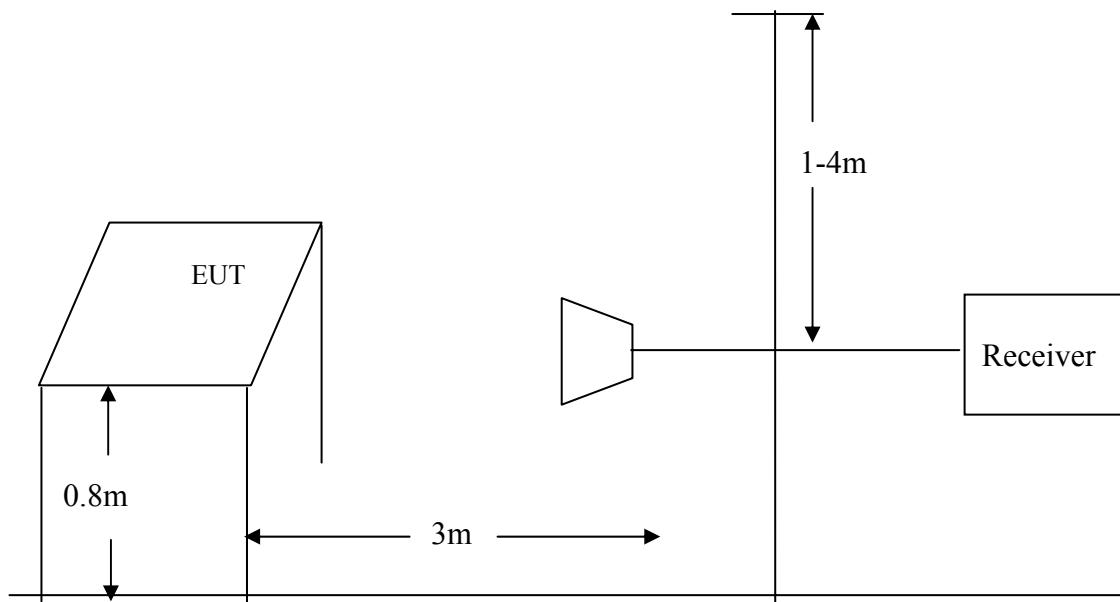
When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.

### 6.2.3. Test Setup Diagram

#### 5.1.3.1. Frequency range: 30MHz-1000MHz



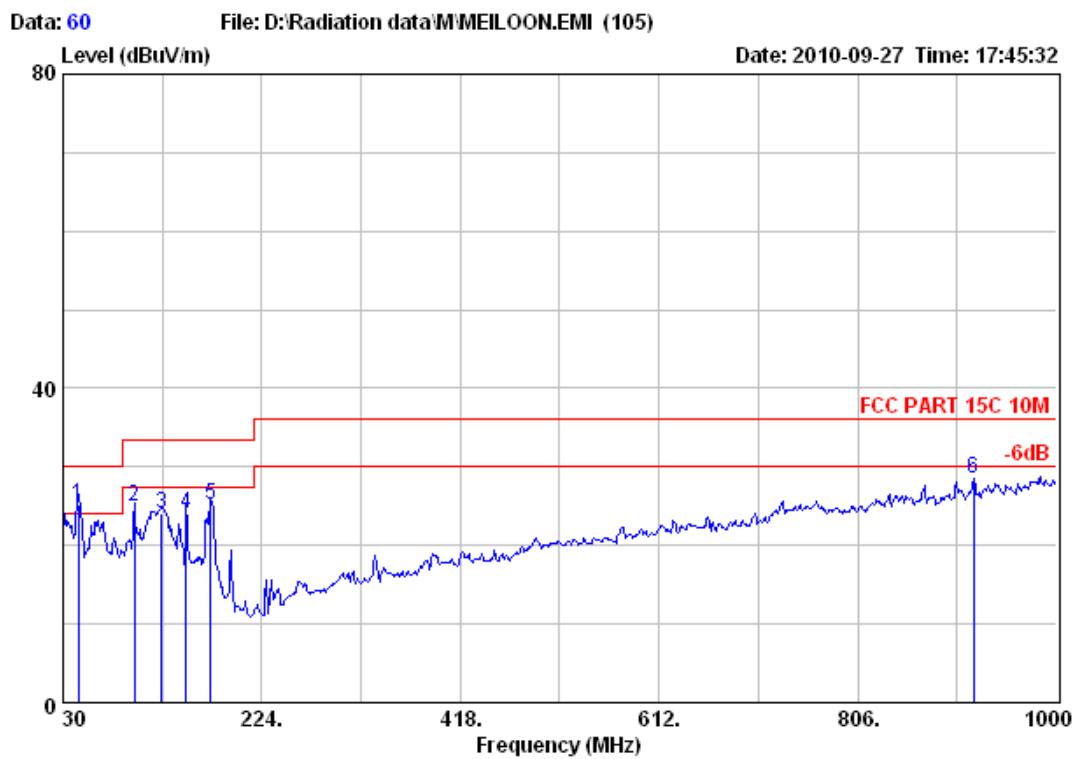
#### 5.1.3.2. Frequency range: 1 GHz -25GHz



The test plots as following:

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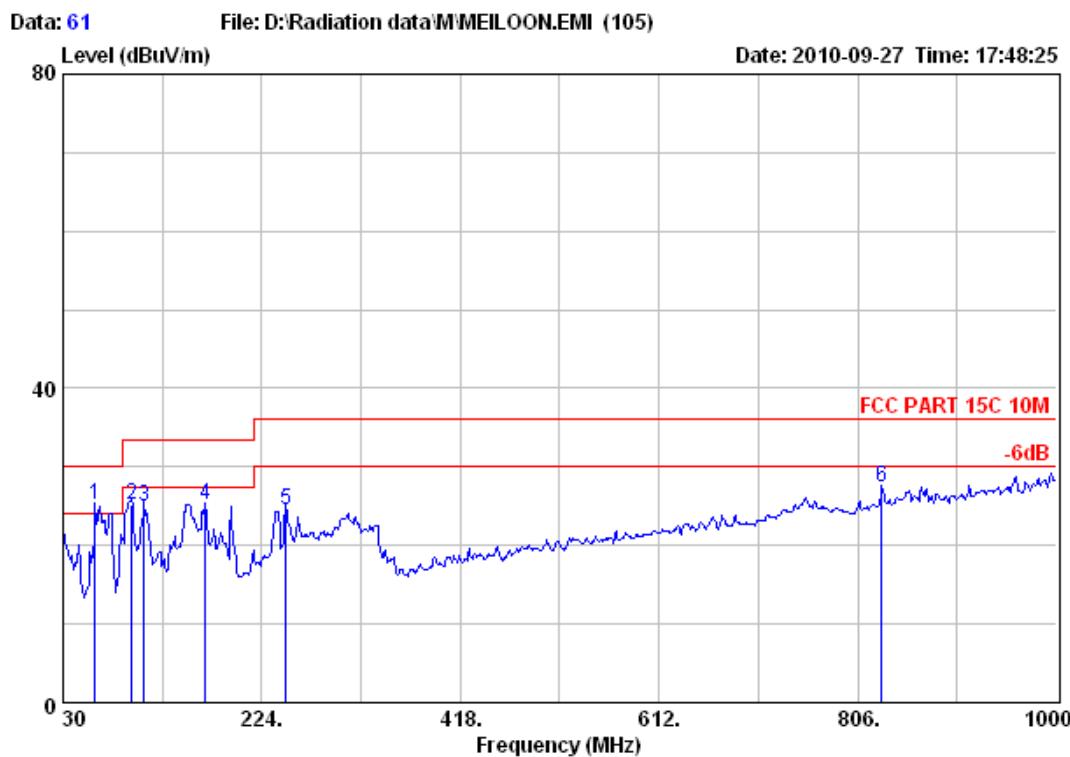
Test Site : 10m Chamber  
Limit : FCC PART 15C 10M  
Dis. / Ant. : 10m 25758-10 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20D  
Power : DC 12V from adapter input AC 230V/50Hz  
Test Engineer : Jade  
Comment : Temp:25.2'C Humi:55% Press:101.51kPa  
Test Mode : TX Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 44.55	25.26	30.00	4.74	12.94	11.38	0.94	QP
2 99.84	24.87	33.50	8.63	14.03	9.50	1.34	QP
3 126.03	24.06	33.50	9.44	11.36	11.22	1.48	QP
4 150.28	24.16	33.50	9.34	12.04	10.50	1.62	QP
5 174.53	25.21	33.50	8.29	14.50	9.00	1.71	QP
6 919.49	28.42	36.00	7.58	1.15	23.47	3.80	QP



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Test Site : 10m Chamber  
Limit : FCC PART 15C 10M  
Dis. / Ant. : 10m 25758-10 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20D  
Power : DC 12V from adapter input AC 230V/50Hz  
Test Engineer : Jade  
Comment : Temp:25.2'C Humi:55% Press:101.51kPa  
Test Mode : TX Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 61.04	25.09	30.00	4.91	19.62	4.36	1.11	QP
2 96.93	25.18	33.50	8.32	14.65	9.20	1.33	QP
3 109.54	24.87	33.50	8.63	12.98	10.50	1.39	QP
4 168.71	25.07	33.50	8.43	14.05	9.32	1.70	QP
5 247.28	24.41	36.00	11.59	11.34	11.08	1.99	QP
6 829.28	27.37	36.00	8.63	1.35	22.37	3.65	QP

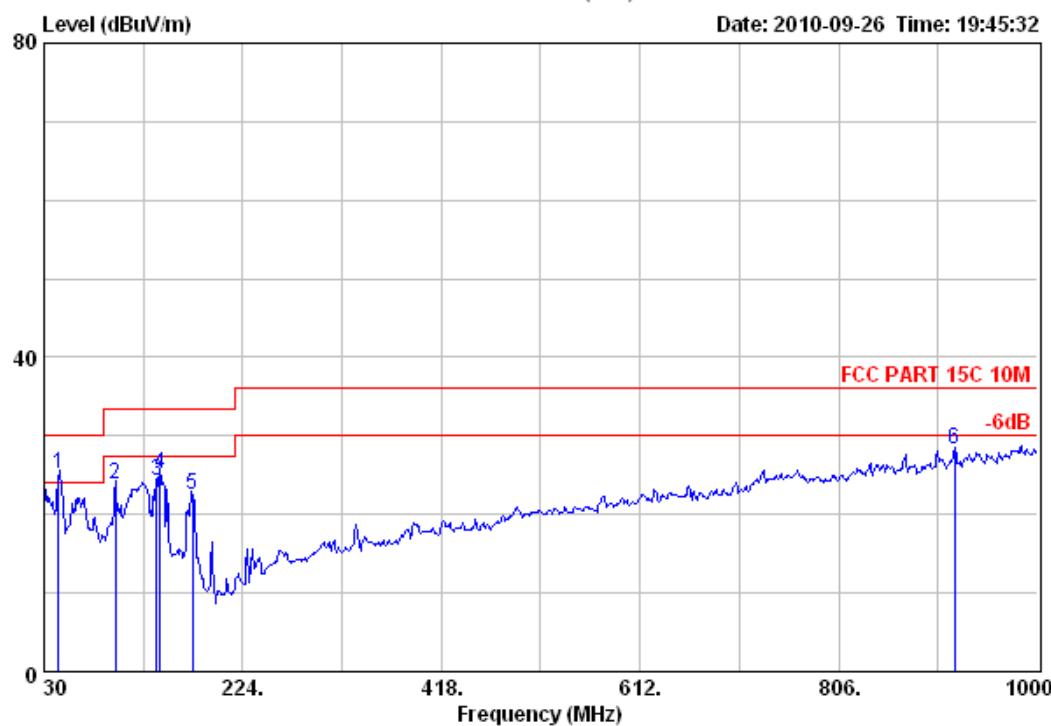
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Data: 104

File: D:\Radiation data\MMILOON.EMI (105)

Date: 2010-09-26 Time: 19:45:32



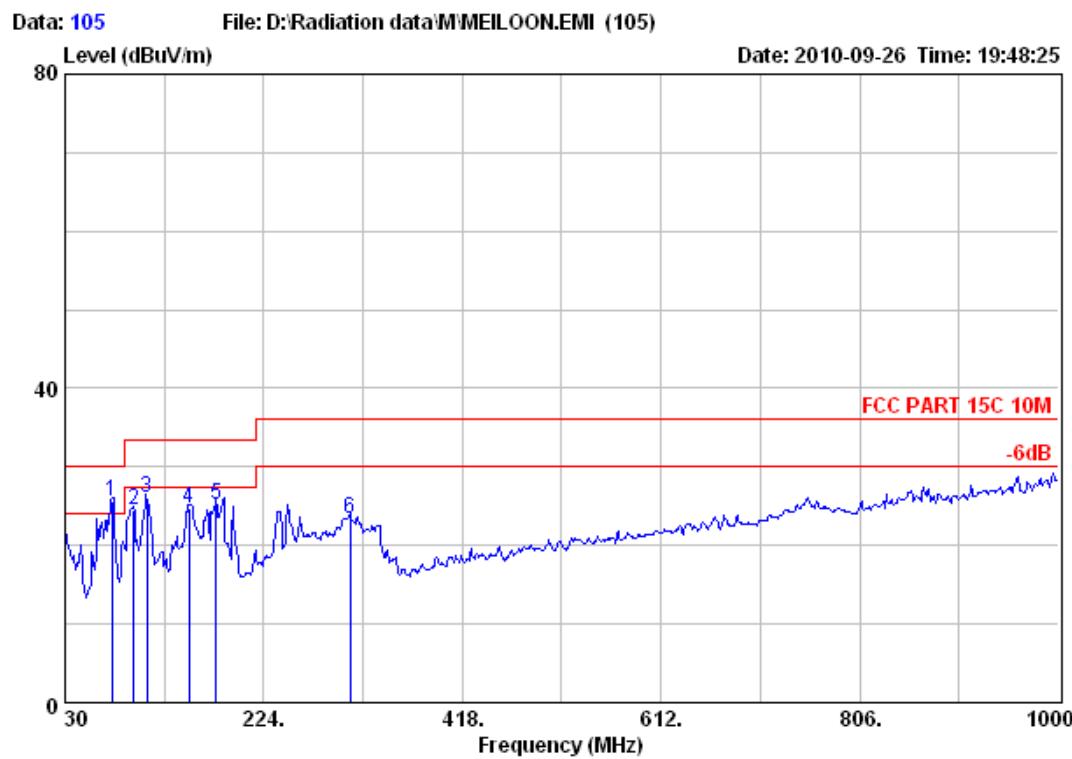
Test Site : 10m Chamber  
Limit : FCC PART 15C 10M  
Dis. / Ant. : 10m 25758-10 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 230V/50Hz  
Test Engineer : Jade  
Comment : Temp:25.2'C Humi:55% Press:101.51kPa  
Test Mode : RX Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 44.52	25.12	30.00	4.88	12.80	11.38	0.94	QP
2 99.87	23.88	33.50	9.62	13.04	9.50	1.34	QP
3 139.66	24.35	33.50	9.15	11.60	11.20	1.55	QP
4 143.52	25.13	33.50	8.37	12.51	11.04	1.58	QP
5 174.58	22.55	33.50	10.95	11.84	9.00	1.71	QP
6 919.37	28.33	36.00	7.67	1.06	23.47	3.80	QP



# NS Technology

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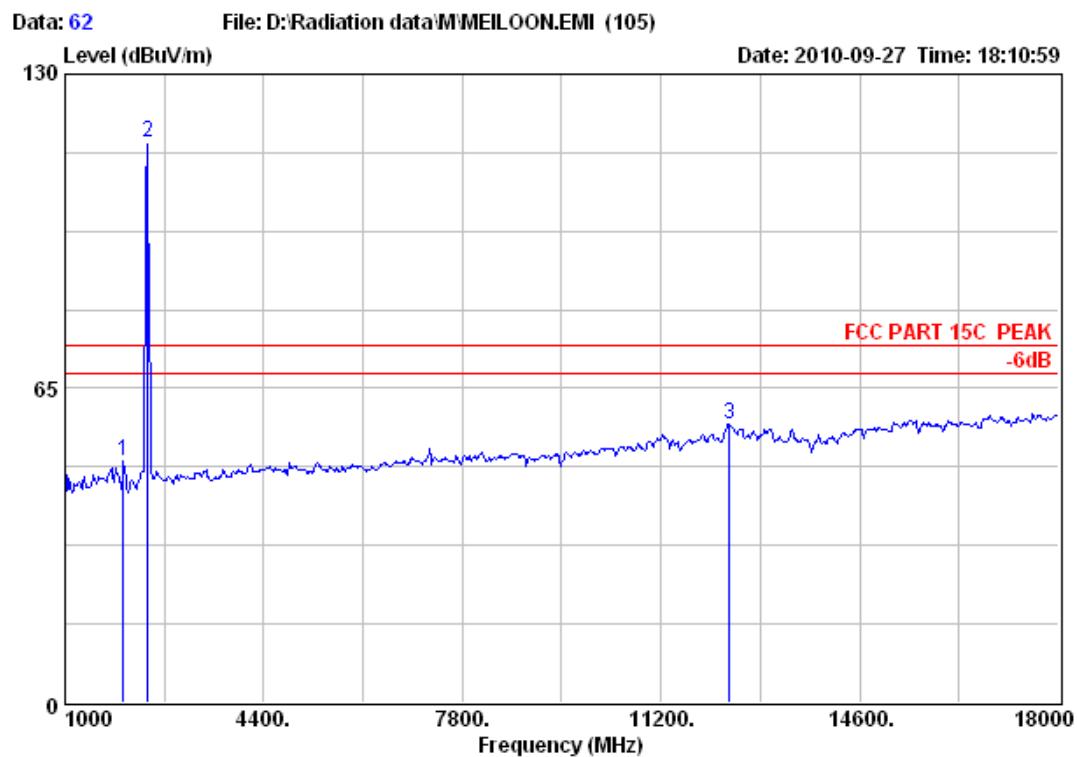


Test Site : 10m Chamber  
Limit : FCC PART 15C 10M  
Dis. / Ant. : 10m 25758-10 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 230V/50Hz  
Test Engineer : Jade  
Comment : Temp:25.2'C Humi:55% Press:101.51kPa  
Test Mode : RX Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor	Cable Loss (dB/m)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1	75.59	25.61	30.00	4.39	18.55	5.86	1.20 QP
2	96.93	24.41	33.50	9.09	13.88	9.20	1.33 QP
3	109.57	26.08	33.50	7.42	14.19	10.50	1.39 QP
4	151.23	24.68	33.50	8.82	12.59	10.46	1.63 QP
5	177.41	25.26	33.50	8.24	14.70	8.84	1.72 QP
6	308.37	23.32	36.00	12.68	8.02	13.07	2.23 QP

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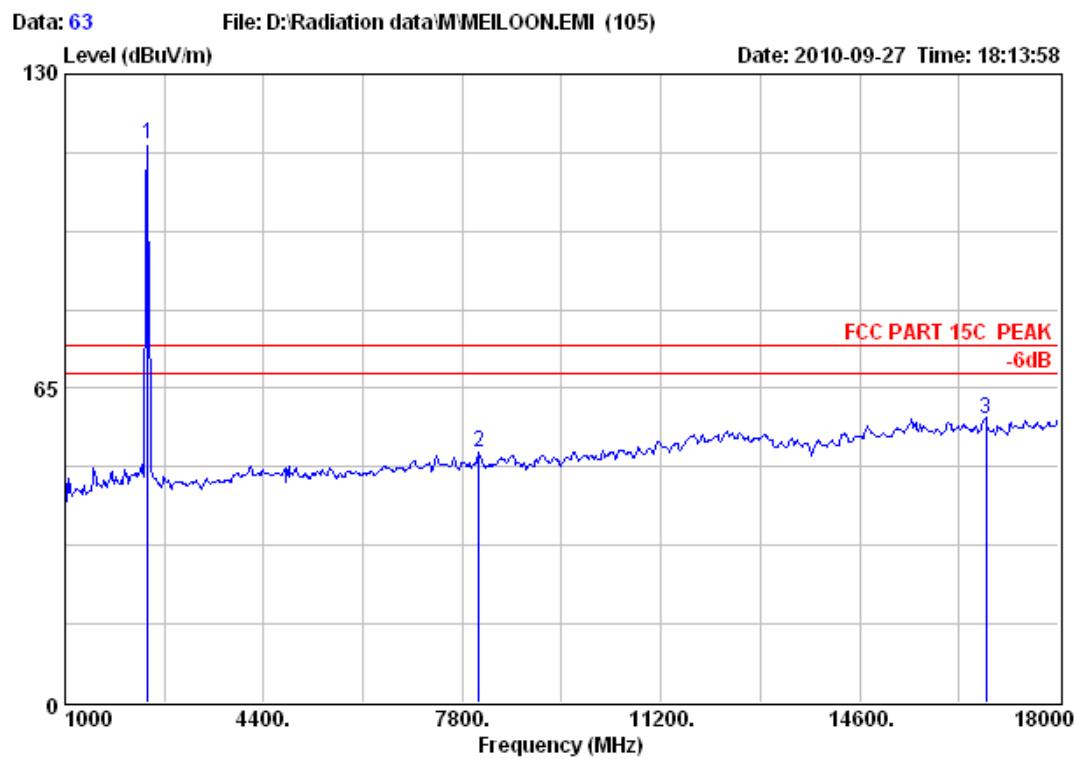
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Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH1 2412MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
1 2003.00	50.01	74.00	23.99	16.71	31.10	2.20	Peak	
2 2412.00	115.76	74.00	-41.76	82.03	31.50	2.23	Peak	
3 31237.300	57.53	74.00	16.47	14.74	39.95	2.84	Peak	



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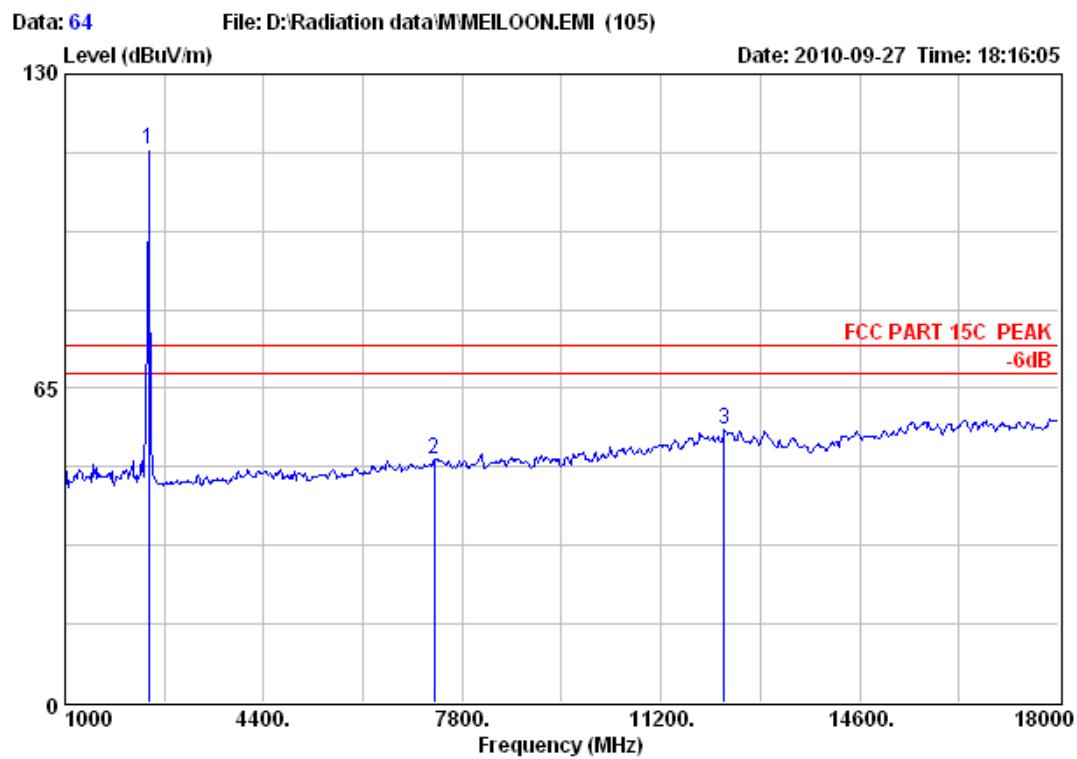
Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH1 2412MHz

Freq. (MHz)	Emission		Ant. Cable			Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	
<hr/>						
1 2412.00	115.69	74.00	-41.69	81.96	31.50	2.23 Peak
2 8089.00	51.61	74.00	22.39	12.05	36.98	2.58 Peak
3 316759.00	58.67	74.00	15.33	12.46	43.10	3.11 Peak



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Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH6 2437MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
1 2437.00	114.26	74.00	-40.26	80.49	31.54	2.23	2.23	Peak
2 7324.00	50.45	74.00	23.55	11.09	36.83	2.53	2.53	Peak
3 312288.00	56.38	74.00	17.62	13.62	39.92	2.84	2.84	Peak



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Level (dBuV/m) Date: 2010-09-27 Time: 18:21:01

130

2

65

FCC PART 15C PEAK -6dB

65

1

3

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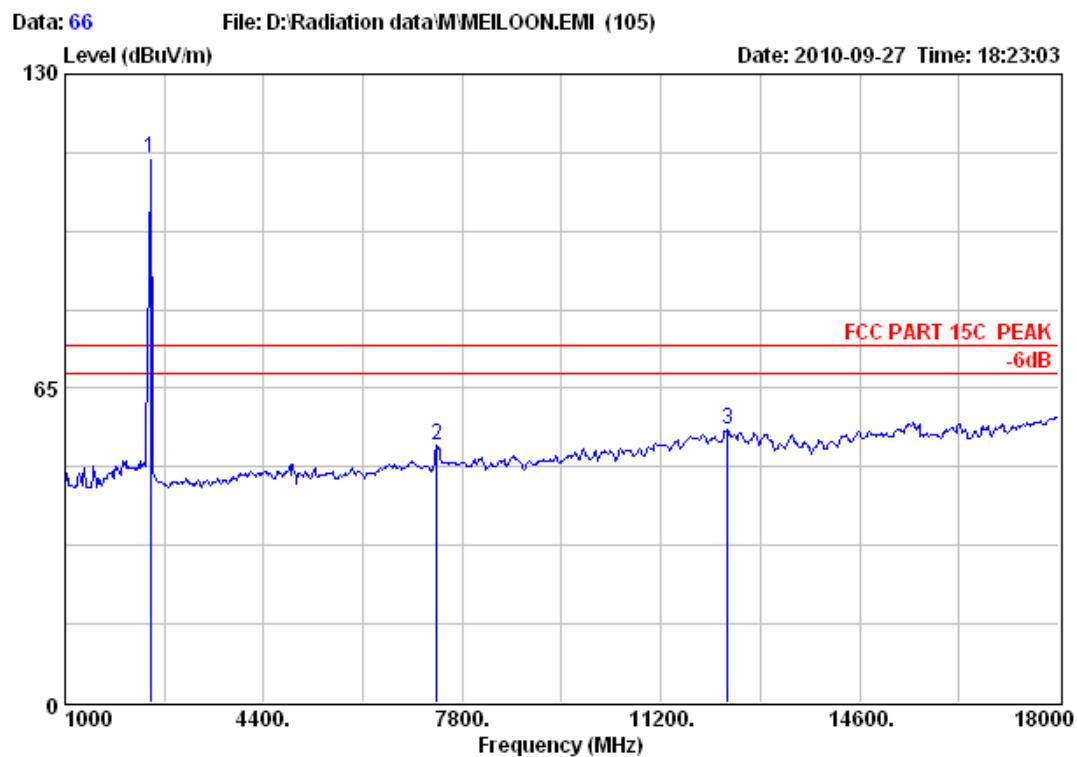
Frequency (MHz)

Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2003.00	51.67	74.00	22.33	18.37	31.10	2.20	Peak
2 2437.00	114.19	74.00	-40.19	80.42	31.54	2.23	Peak
3 12288.00	56.08	74.00	17.92	13.32	39.92	2.84	Peak

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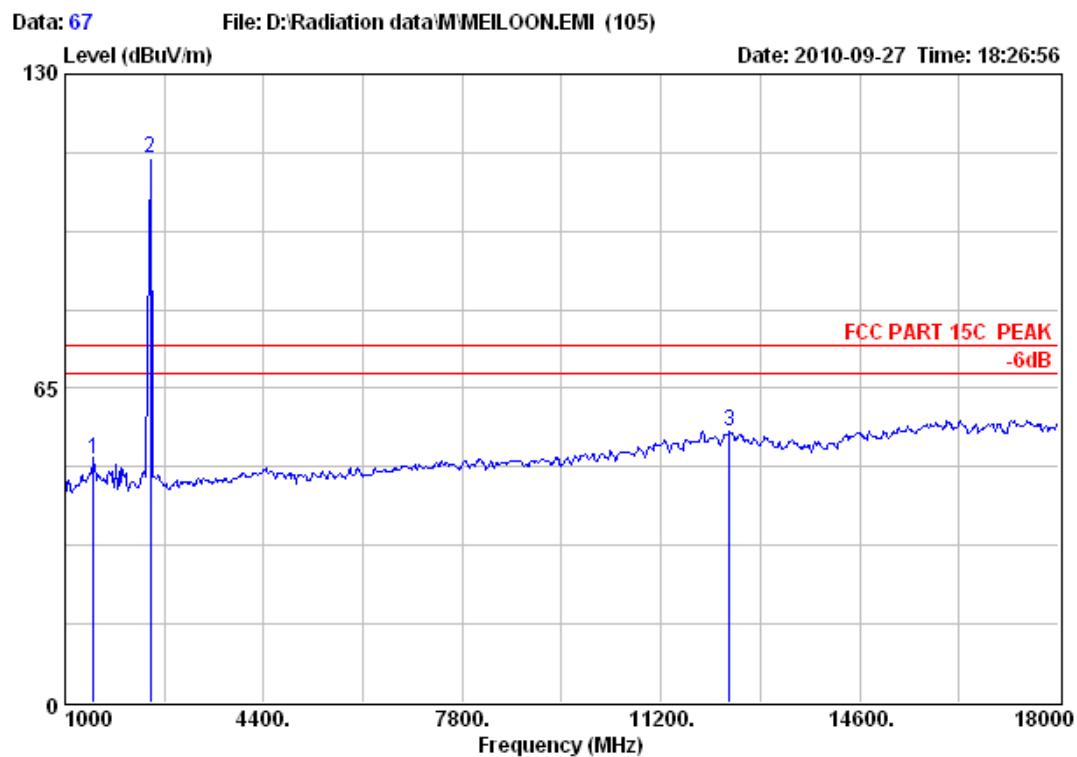
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Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)			Factor	Loss (dB/m)	
1 2462.00	112.69	74.00	-38.69	78.90	31.56	2.23	Peak
2 7358.00	53.12	74.00	20.88	13.76	36.83	2.53	Peak
3 12339.00	56.57	74.00	17.43	13.79	39.94	2.84	Peak



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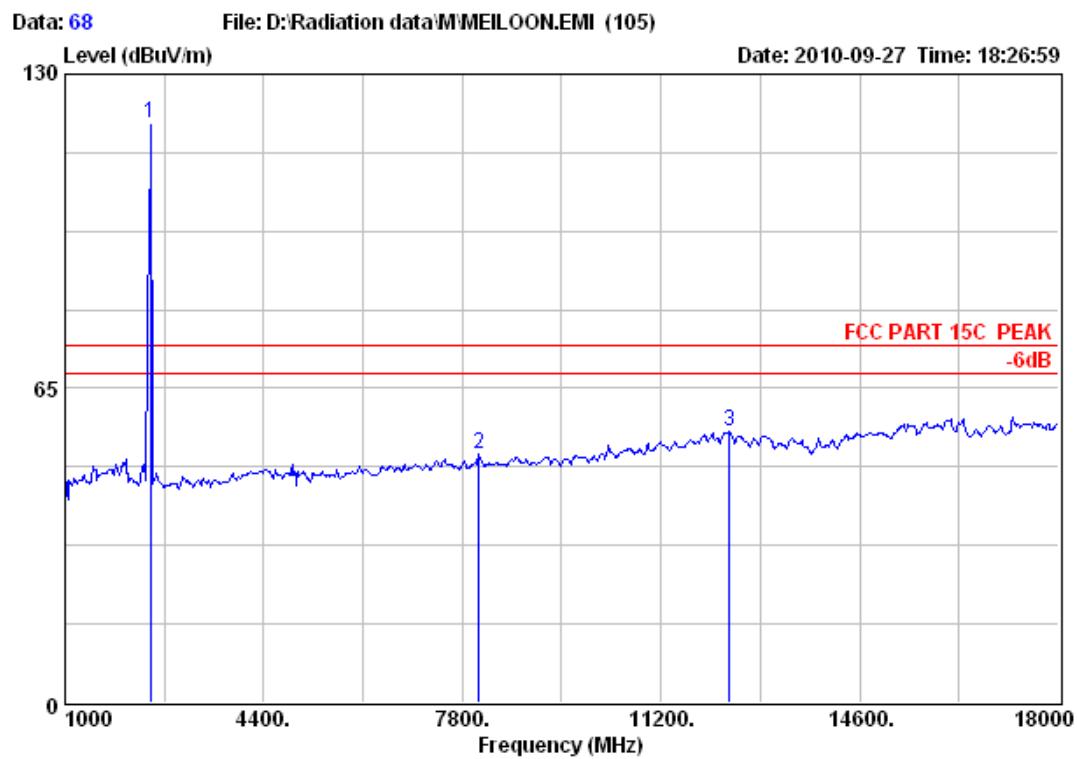
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Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission		Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	
1 1493.00	50.51	74.00	23.49	20.66	27.70	2.15	Peak
2 2462.00	112.59	74.00	-38.59	78.80	31.56	2.23	Peak
3 312373.00	56.04	74.00	17.96	13.25	39.95	2.84	Peak



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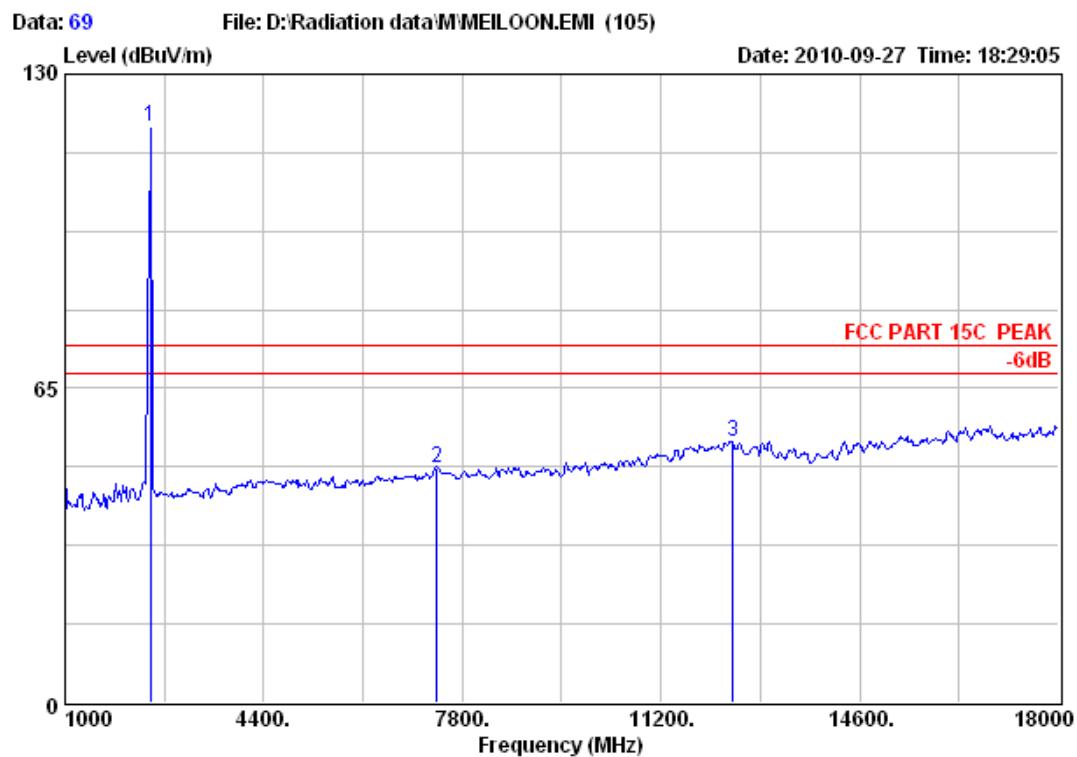
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Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
1 2462.00	119.97	74.00	-45.97	86.18	31.56	2.23	2.23	Peak
2 8089.00	51.42	74.00	22.58	11.86	36.98	2.58	2.58	Peak
3 312373.00	55.97	74.00	18.03	13.18	39.95	2.84	2.84	Peak



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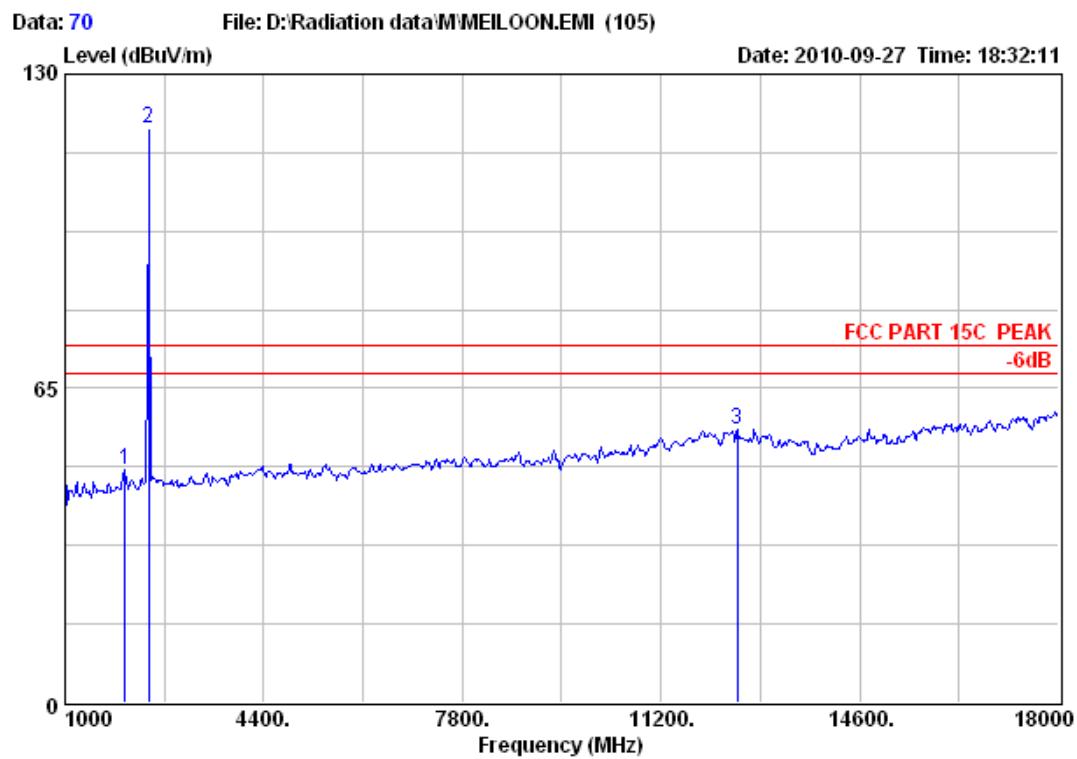
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Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
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M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
1 2462.00	118.96	74.00	-44.96	85.17	31.56	2.23	2.23	Peak
2 7358.00	48.68	74.00	25.32	9.32	36.83	2.53	2.53	Peak
3 312424.00	53.96	74.00	20.04	11.14	39.97	2.85	2.85	Peak



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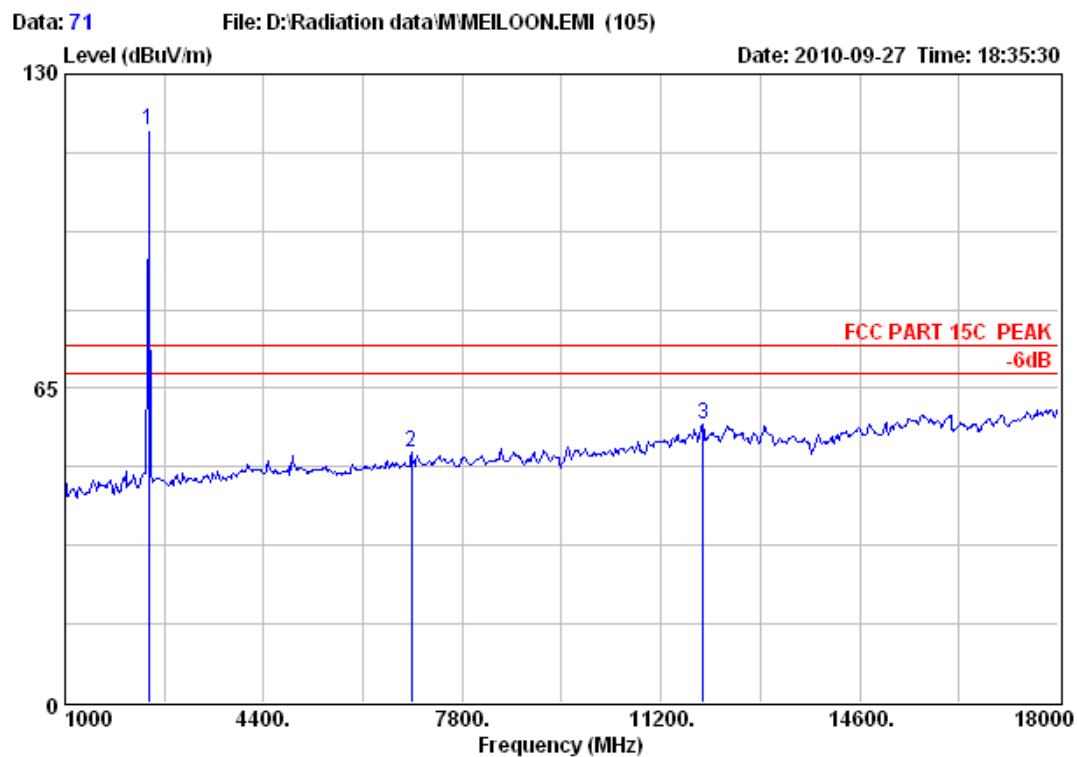
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Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH6 2437MHz

Freq. (MHz)	Emission		Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	
1 2020.00	48.21	74.00	25.79	14.89	31.12	2.20	Peak
2 2437.00	118.67	74.00	-44.67	84.90	31.54	2.23	Peak
3 312509.00	56.51	74.00	17.49	13.65	40.01	2.85	Peak



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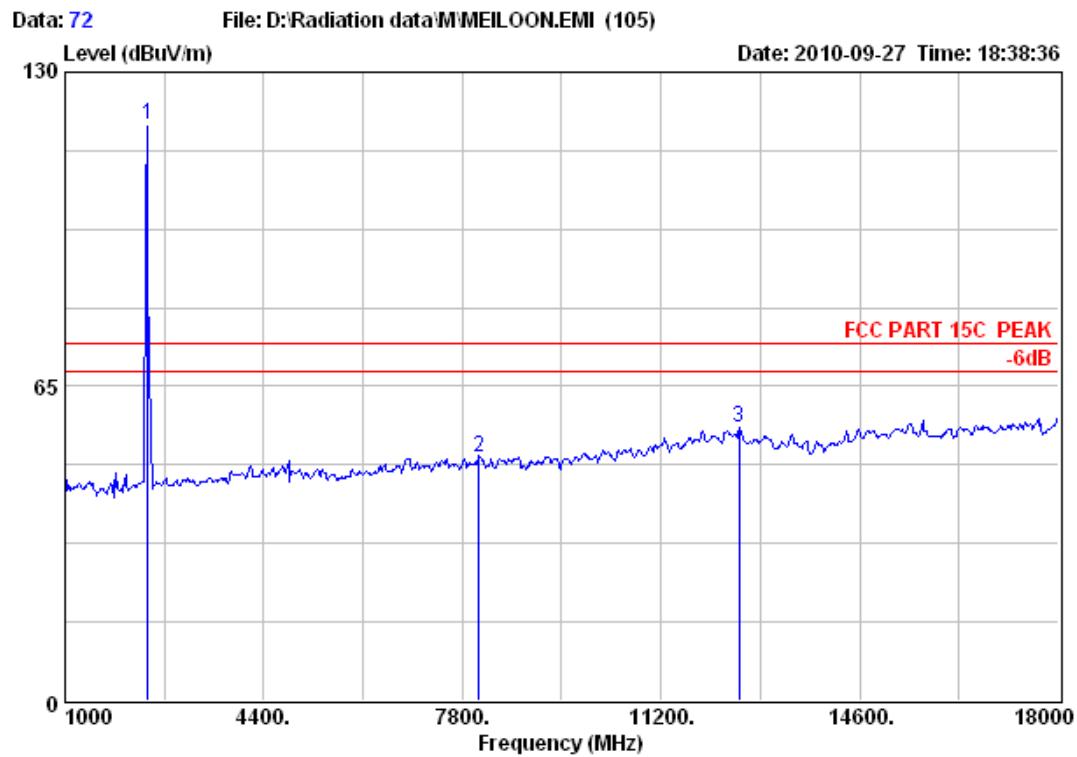


Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH6 2437MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
1 2437.00	118.57	74.00	-44.57	84.80	31.54	2.23	2.23	Peak
2 6933.00	51.62	74.00	22.38	12.25	36.86	2.51	2.51	Peak
3 311914.00	57.49	74.00	16.51	15.00	39.67	2.82	2.82	Peak

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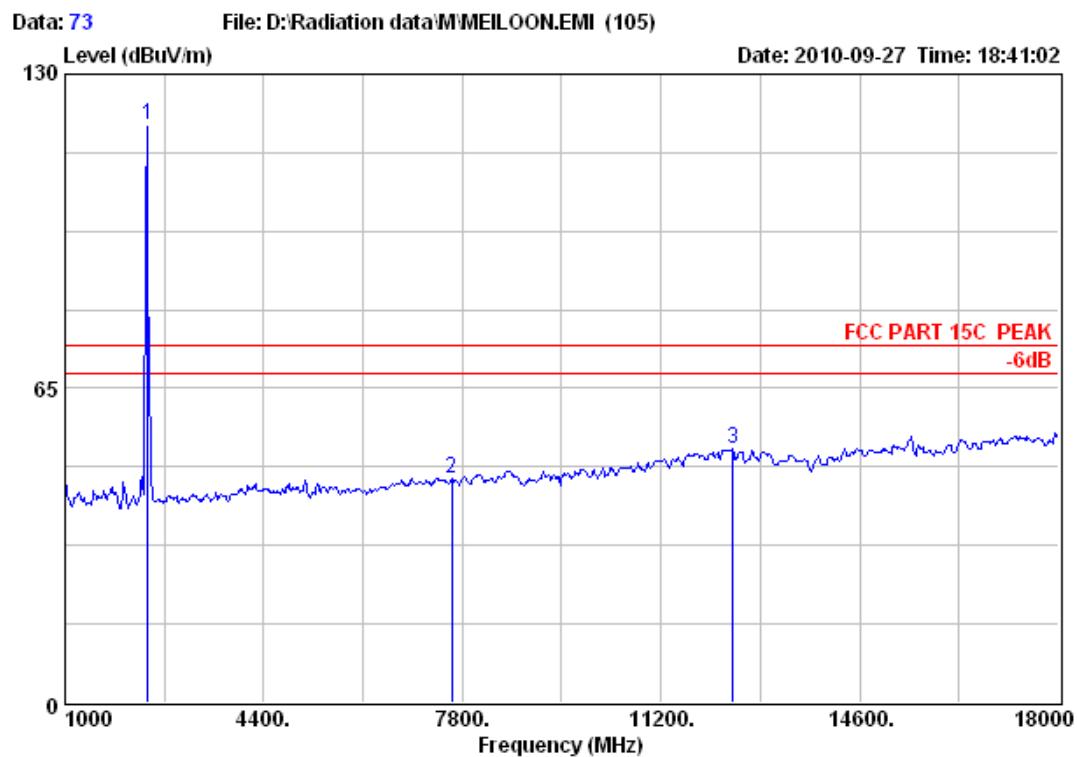
Test Site : 10m Chamber  
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Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
1 2412.00	119.26	74.00	-45.26	85.53	31.50	2.23	2.23	Peak
2 8089.00	50.51	74.00	23.49	10.95	36.98	2.58	2.58	Peak
3 312543.00	56.42	74.00	17.58	13.54	40.03	2.85	2.85	Peak



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Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
1 2412.00	119.37	74.00	-45.37	85.64	31.50	2.23	2.23	Peak
2 7613.00	46.26	74.00	27.74	6.86	36.85	2.55	2.55	Peak
3 312424.00	52.41	74.00	21.59	9.59	39.97	2.85	2.85	Peak

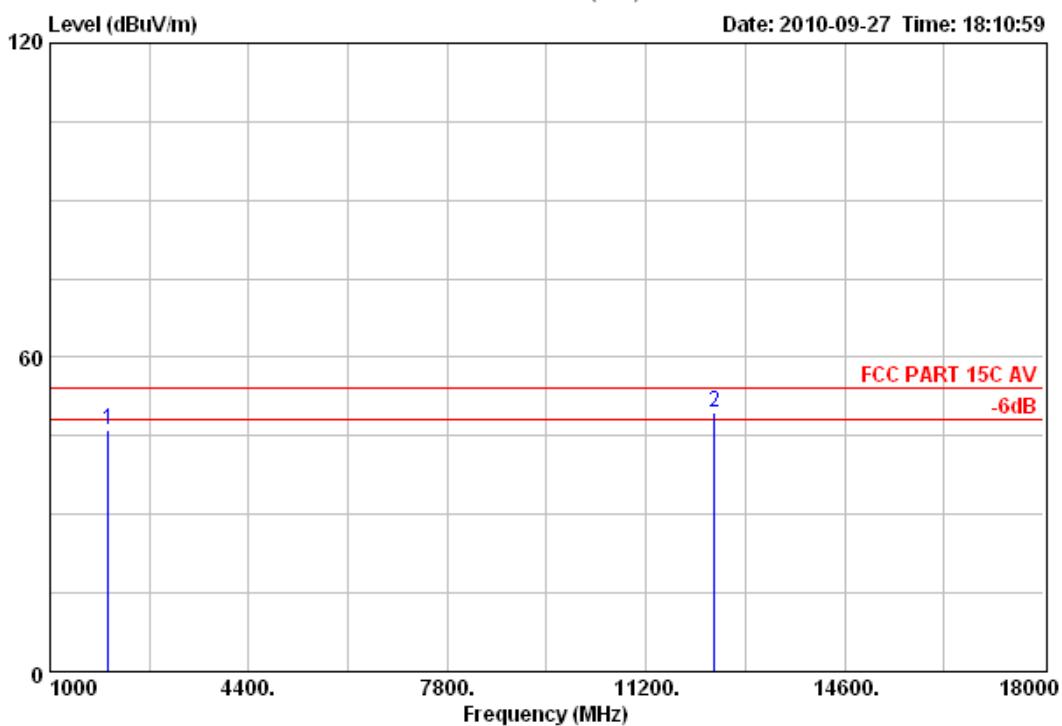
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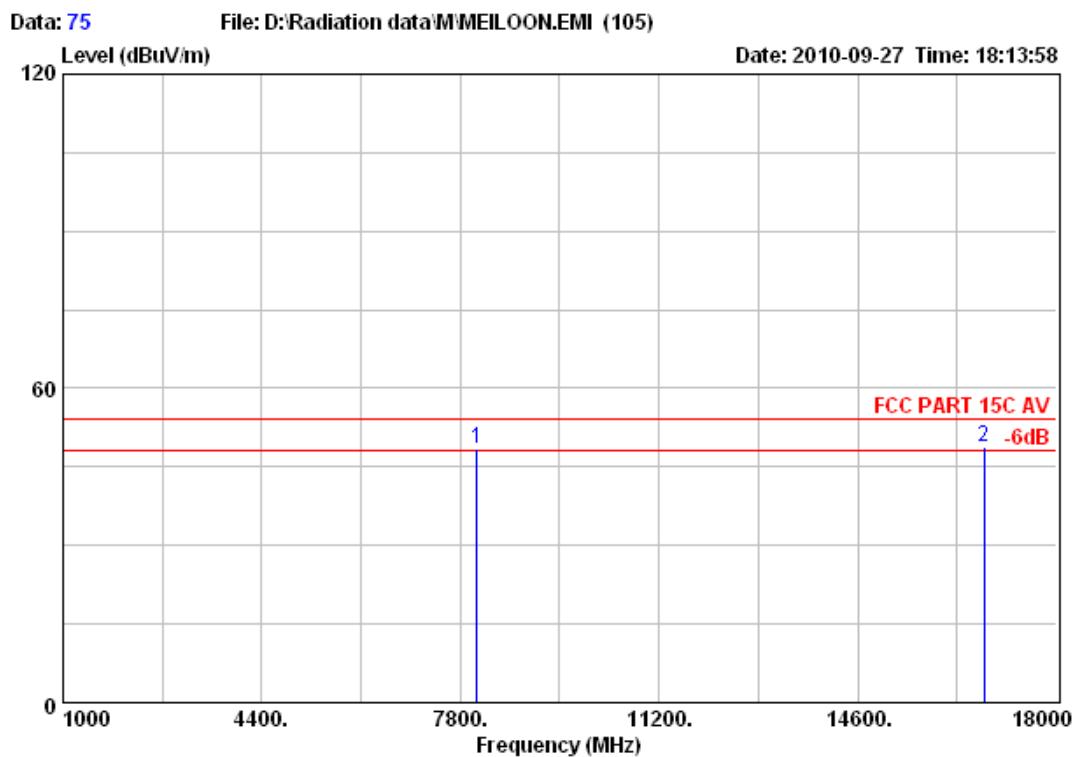
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Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH1 2412MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
1 2003.00	46.01	54.00	7.99	12.71	31.10	2.20	Average	
212373.00	49.53	54.00	4.47	6.74	39.95	2.84	Average	



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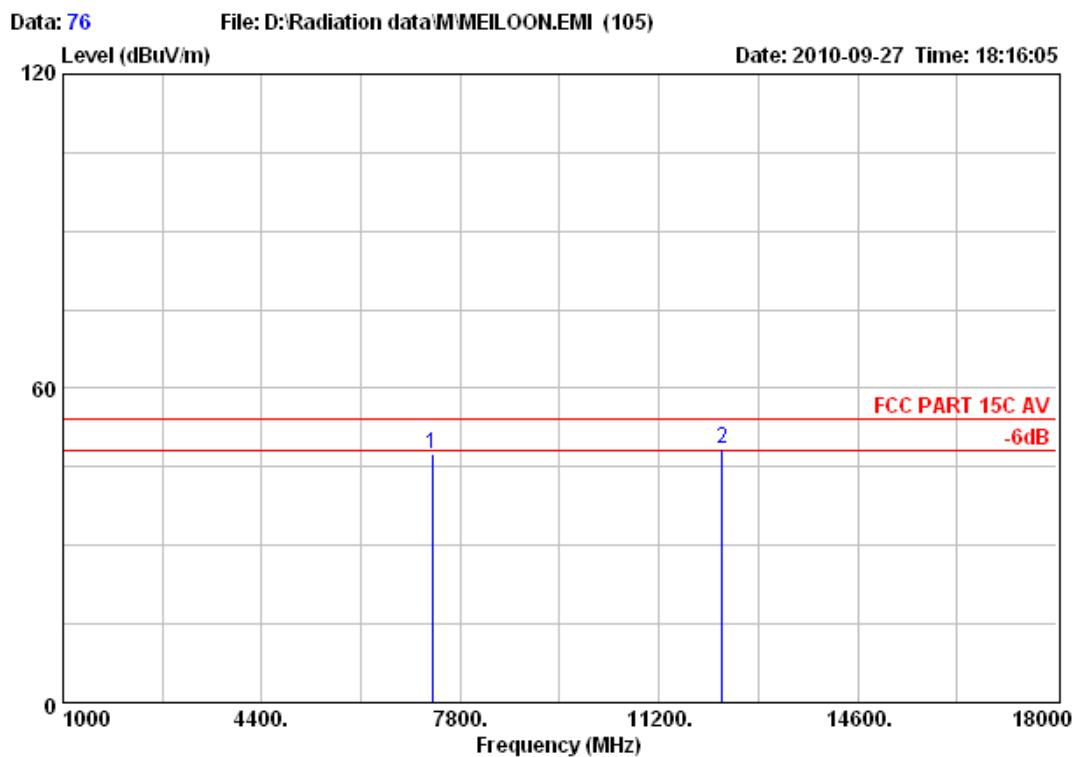
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Dis. / Ant. : 3m 3117      Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH1 2412MHz

Freq. (MHz)	Emission		Ant. Cable			Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	
<hr/>						
1 8089.00	48.61	54.00	5.39	9.05	36.98	2.58      Average
216759.00	48.67	54.00	5.33	2.46	43.10	3.11      Average



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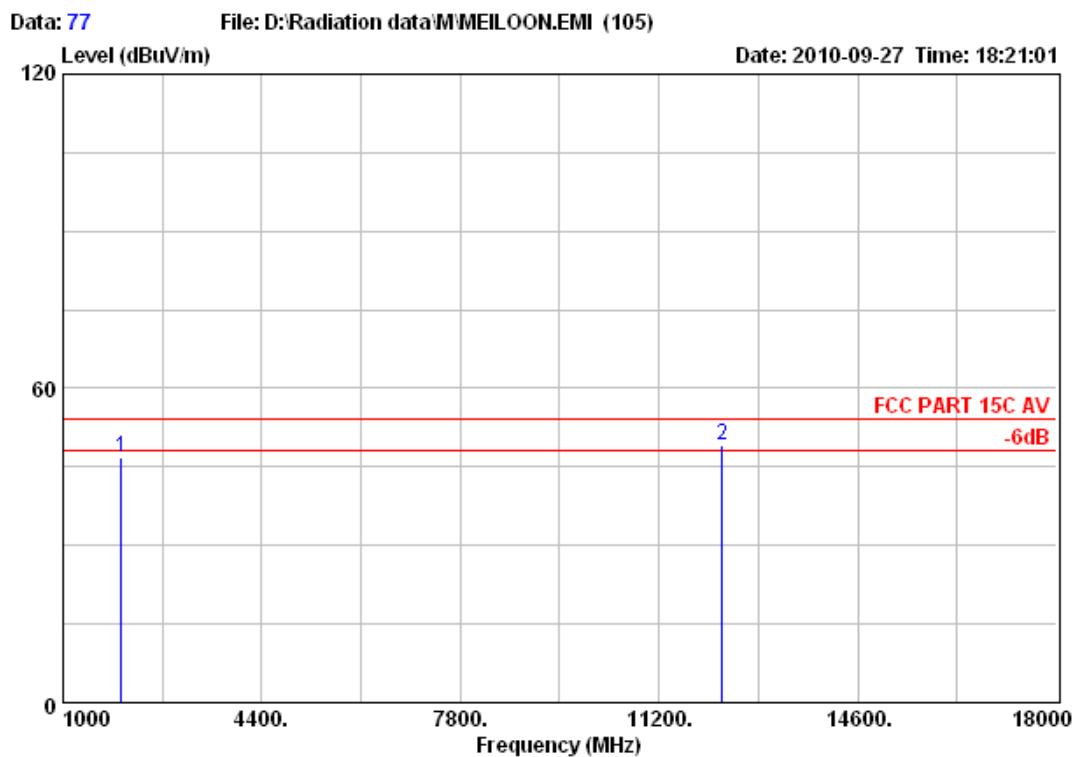
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Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH6 2437MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)			Factor	Loss (dB/m)	
1 7324.00	47.45	54.00	6.55	8.09	36.83	2.53	Average
212288.00	48.38	54.00	5.62	5.62	39.92	2.84	Average



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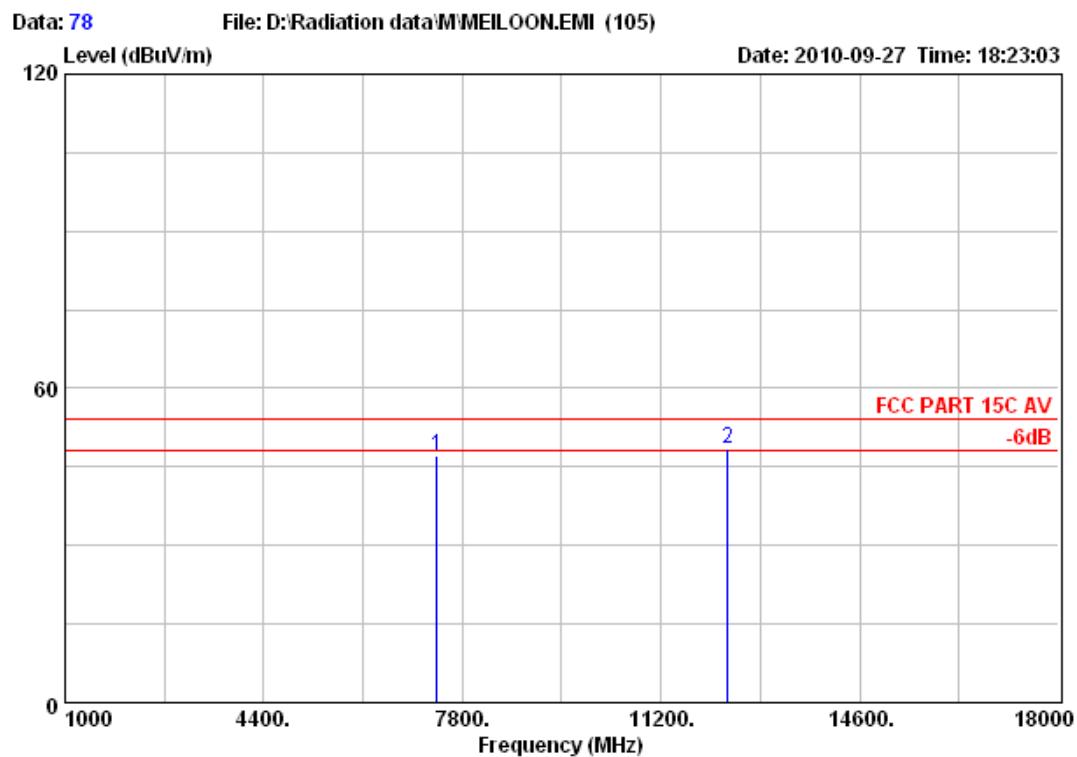
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EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH6 2437MHz

Freq. (MHz)	Emission		Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	
1 2003.00	46.67	54.00	7.33	13.37	31.10	2.20	Average
212288.00	49.08	54.00	4.92	6.32	39.92	2.84	Average



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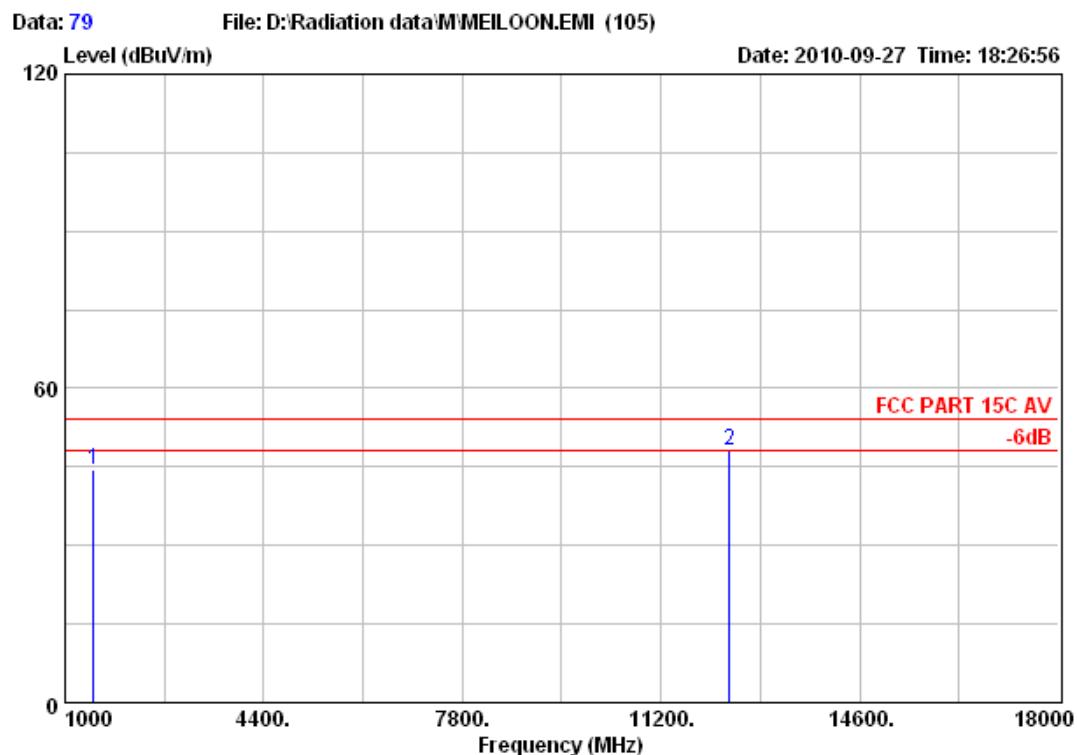
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
1 7358.00	47.12	54.00	6.88	7.76	36.83	2.53	Average	
21233.90	48.57	54.00	5.43	5.79	39.94	2.84	Average	



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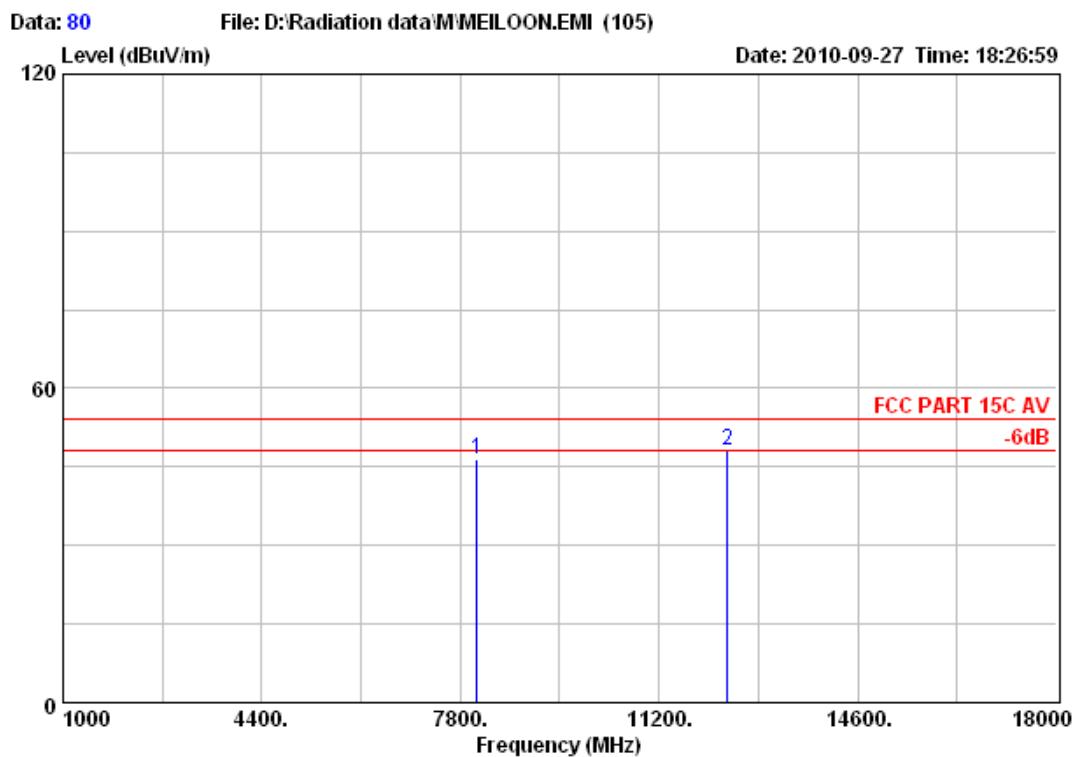
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
1 1493.00	44.51	54.00	9.49	14.66	27.70	2.15	Average	
2 212373.00	48.04	54.00	5.96	5.25	39.95	2.84	Average	



# NS Technology

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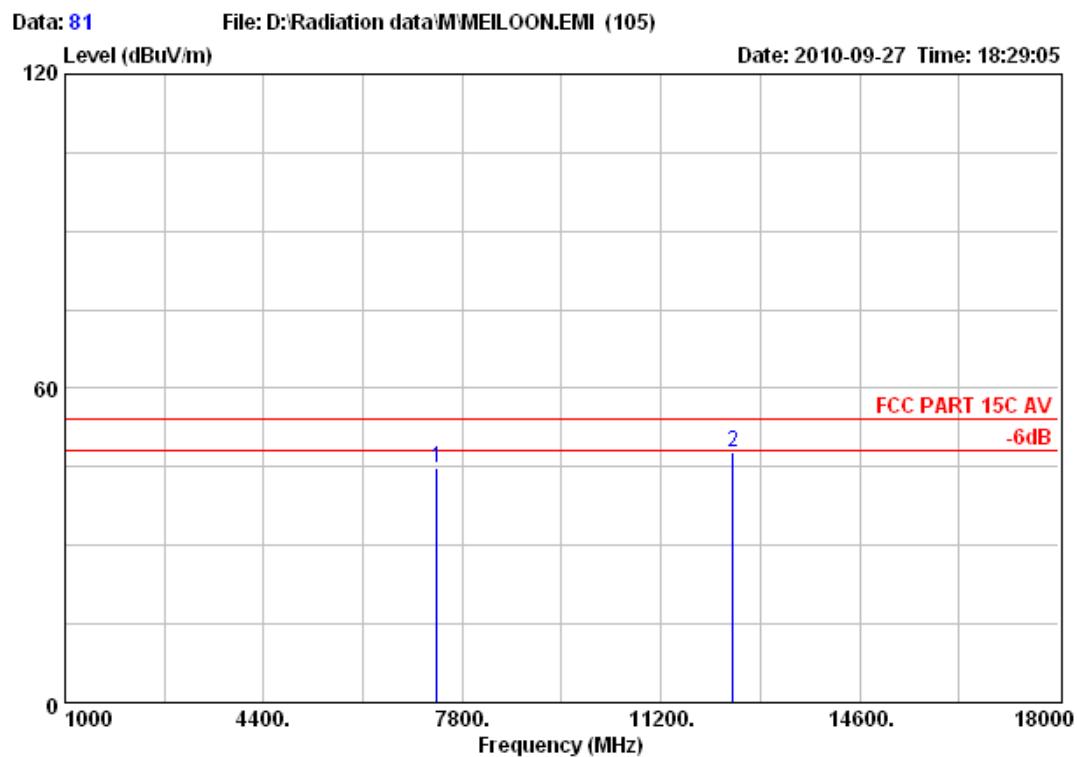
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
1 8089.00	46.42	54.00	7.58	6.86	36.98	2.58	Average	
212373.00	47.97	54.00	6.03	5.18	39.95	2.84	Average	



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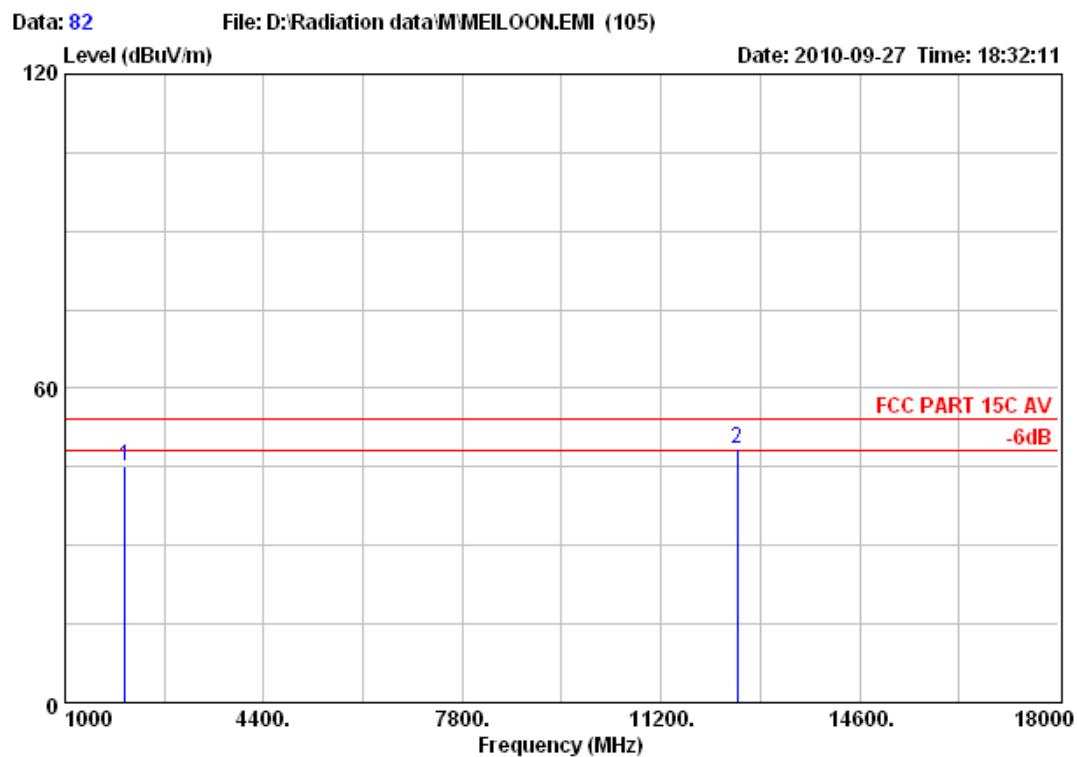
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Factor (dB/m)	Ant. Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 7358.00	44.68	54.00	9.32	5.32	36.83	2.53	Average
21242.40	47.96	54.00	6.04	5.14	39.97	2.85	Average



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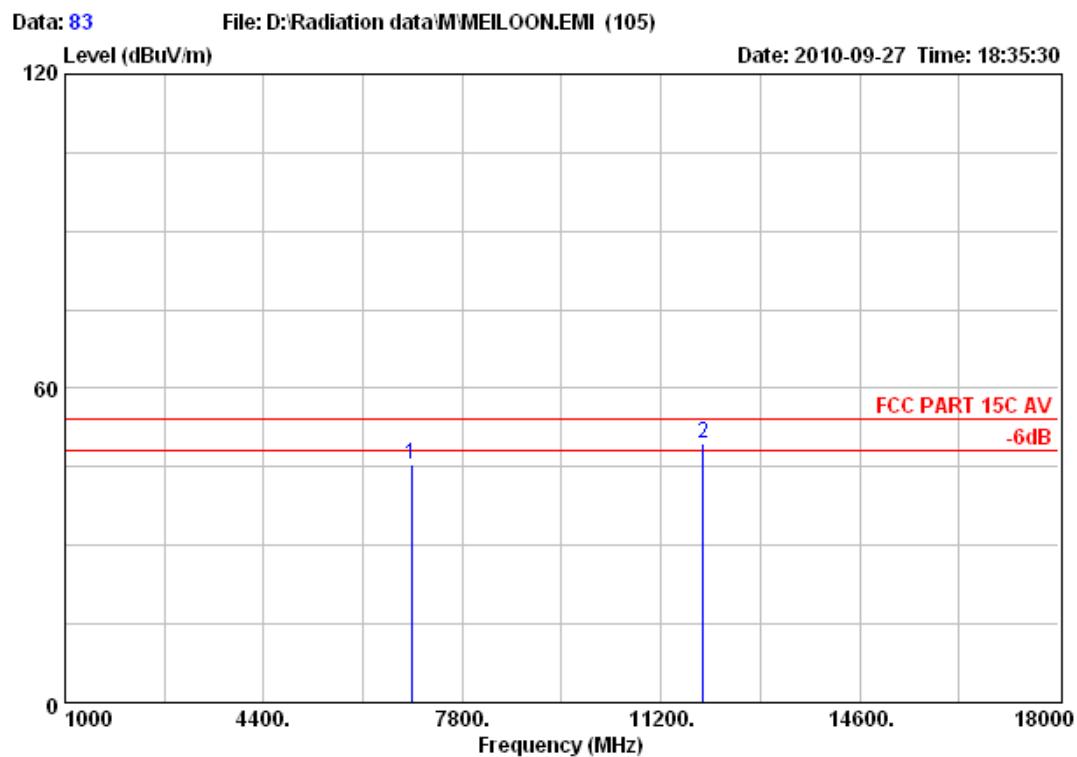
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH6 2437MHz

Freq. (MHz)	Emission		Ant. Cable			Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	
1 2020.00	45.21	54.00	8.79	11.89	31.12	2.20      Average
212509.00	48.51	54.00	5.49	5.65	40.01	2.85      Average



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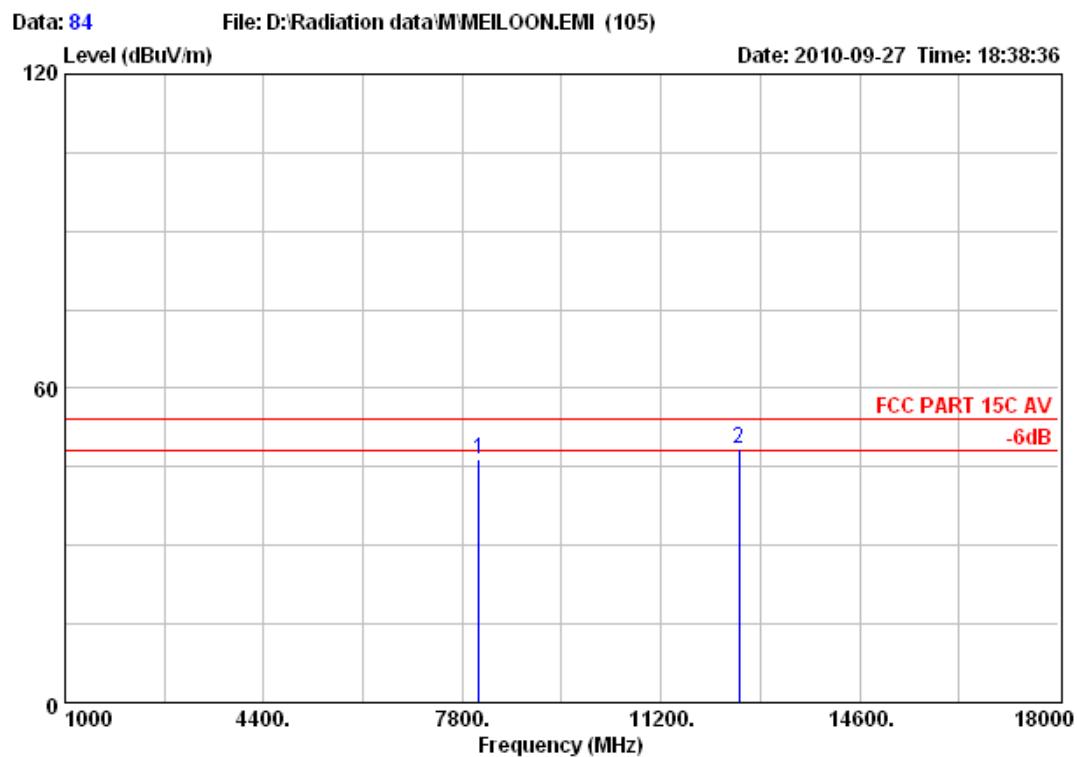
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH6 2437MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Ant. Cable Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 6933.00	45.62	54.00	8.38	6.25	36.86	2.51	Average
211914.00	49.49	54.00	4.51	7.00	39.67	2.82	Average



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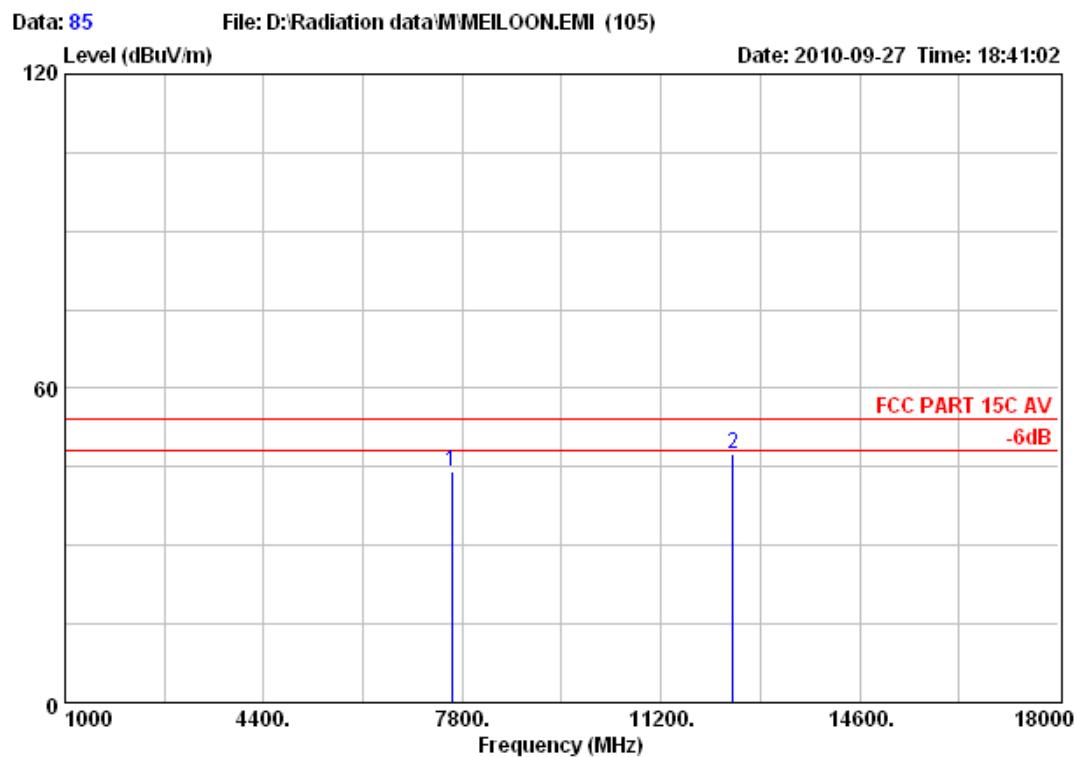
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Emission				Ant.	Cable		
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	8089.00	46.51	54.00	7.49	6.95	36.98	2.58
	212543.00	48.42	54.00	5.58	5.54	40.03	2.85
							Average
							Average



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Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117      Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Factor (dB/m)	Ant. Cable (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 7613.00	44.26	54.00	9.74	4.86	36.85	2.55	Average
212424.00	47.41	54.00	6.59	4.59	39.97	2.85	Average



## NS Technology

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Data: 102 File: D:\Radiation data\MMEILOON.EMI (105)

Level (dBuV/m) Date: 2010-09-27 Time: 19:32:59

130

65

0

1000 4400. 7800. 11200. 14600. 18000.

Frequency (MHz)

FCC PART 15C PEAK

FCC PART 15C AV

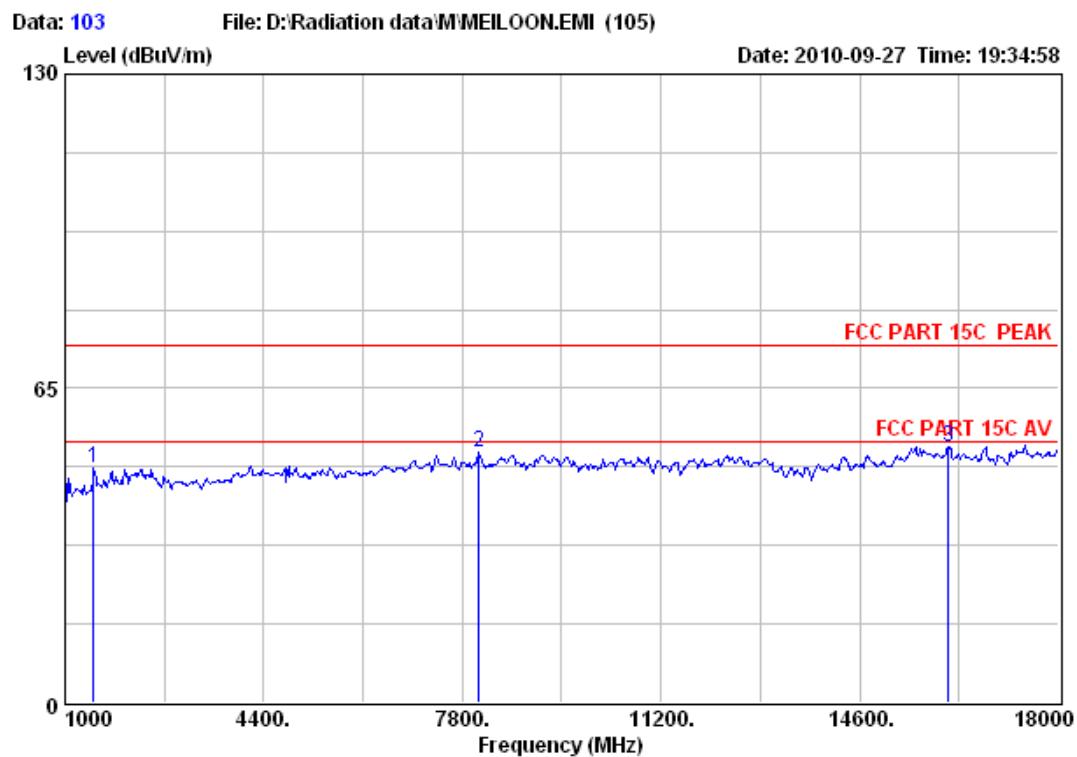
1 2 3

Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : RX Mode

Emission				Ant.	Cable		
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2003.00	50.01	74.00	23.99	16.71	31.10	2.20	Peak
2 7239.00	52.54	74.00	21.46	13.16	36.85	2.53	Peak
3 12373.00	53.53	74.00	20.47	10.74	39.95	2.84	Peak

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Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : RX Mode

Emission				Ant.	Cable		
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 1493.00	48.57	74.00	25.43	18.72	27.70	2.15	Peak
2 8089.00	51.68	74.00	22.32	12.12	36.98	2.58	Peak
3 16113.00	52.88	74.00	21.12	7.32	42.49	3.07	Peak

### 6.3. Conducted emission test data

#### 6.3.1. Test limits

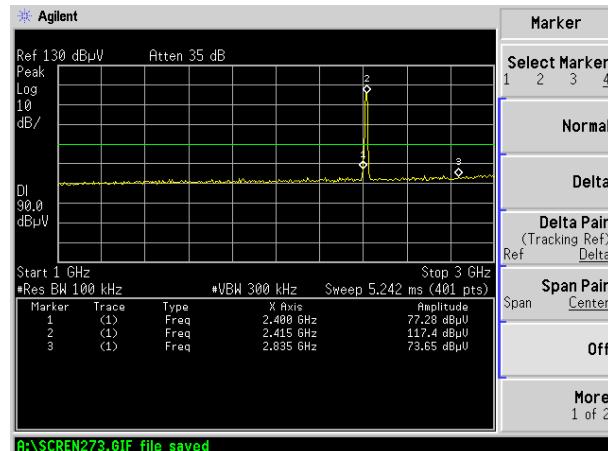
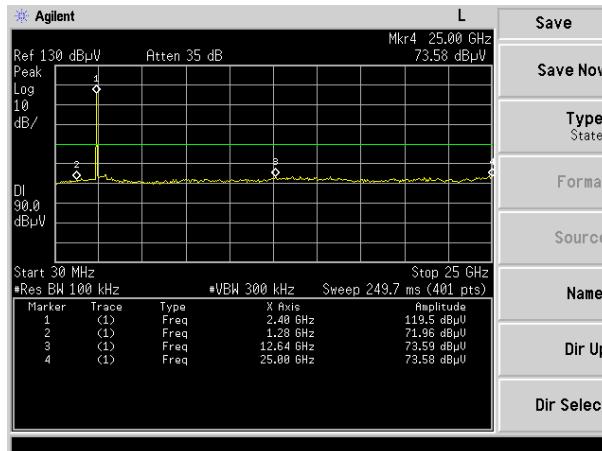
least 20 dB down from the highest emission level

#### 6.3.2. Test procedure

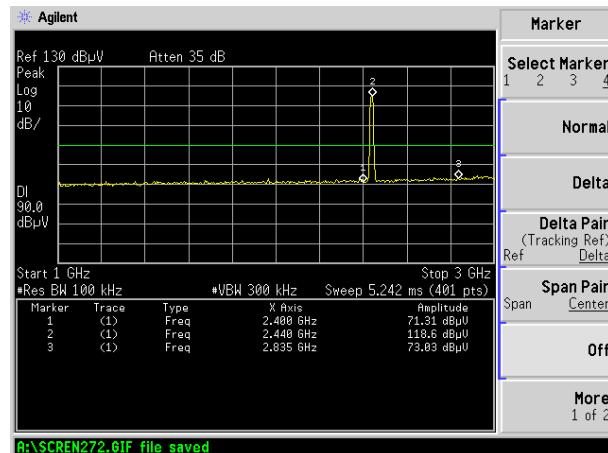
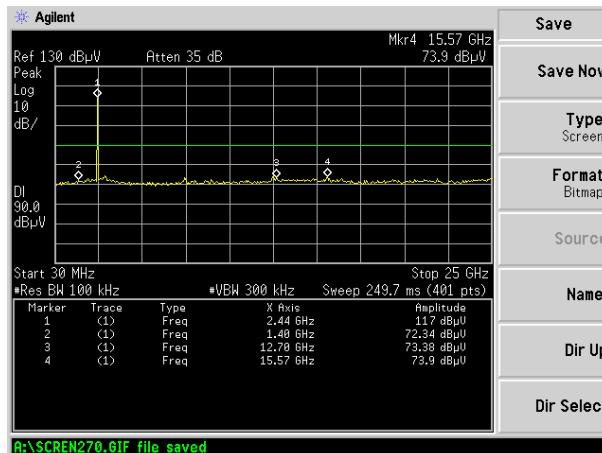
1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set RBW=100kHz,VBW=300kHz; trace max hold, then view.

The test plots as following:

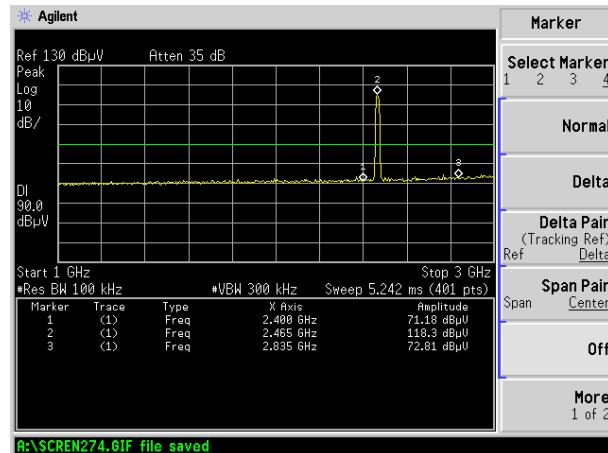
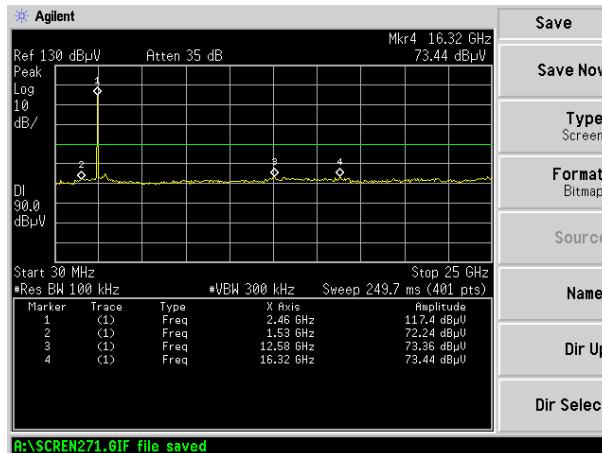
## 802.11b CH1 2412MHz



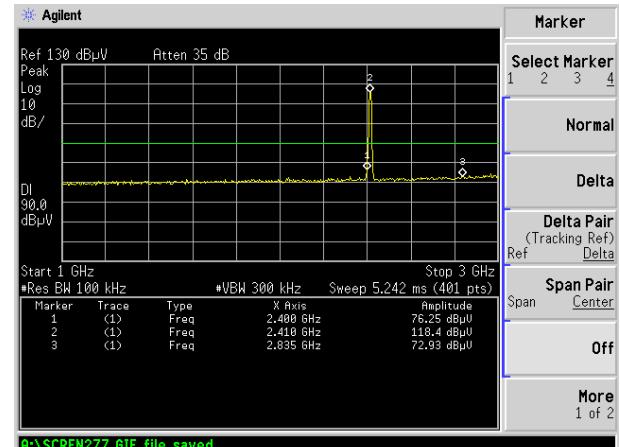
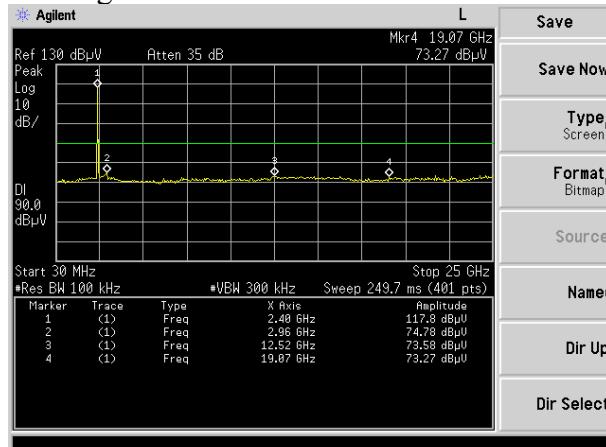
## 802.11b CH6 2437MHz



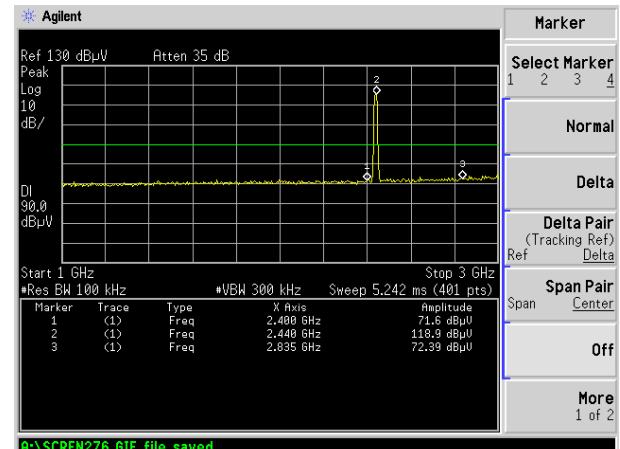
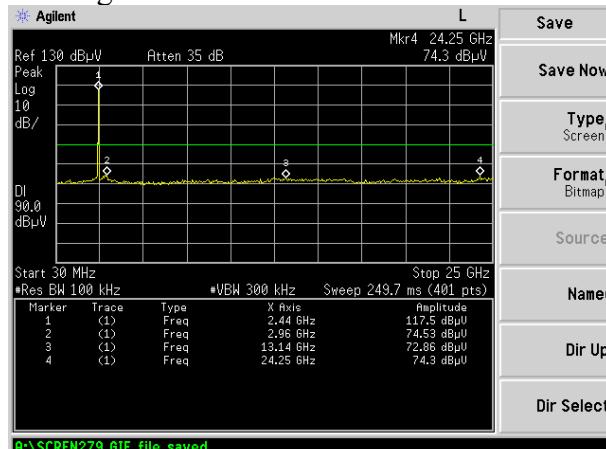
## 802.11b CH11 2462MHz



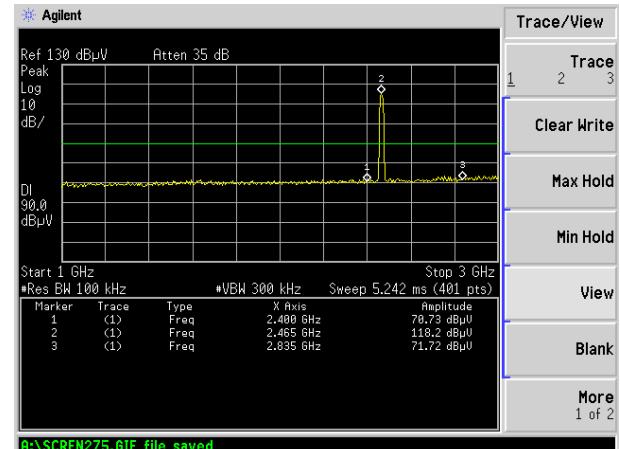
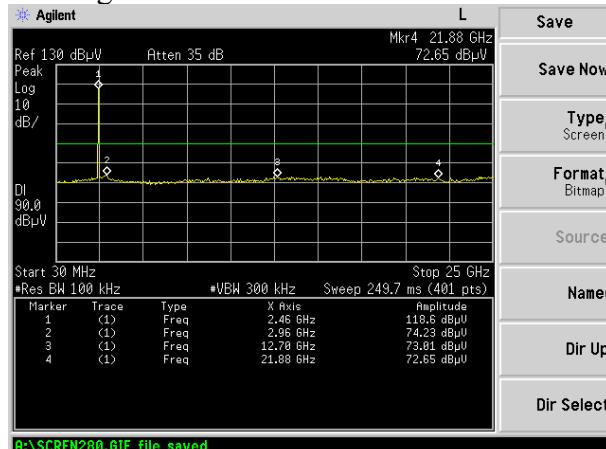
### 802.11g CH1 2412MHz



### 802.11g CH6 2437MHz



### 802.11g CH11 2462MHz



## 6.4. 6dB Bandwidth

### 6.4.1. Test limits

>500kHz.

### 6.4.2. Test procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set SA trace max hold, then view.

### 6.4.3. Test result

**Pass**

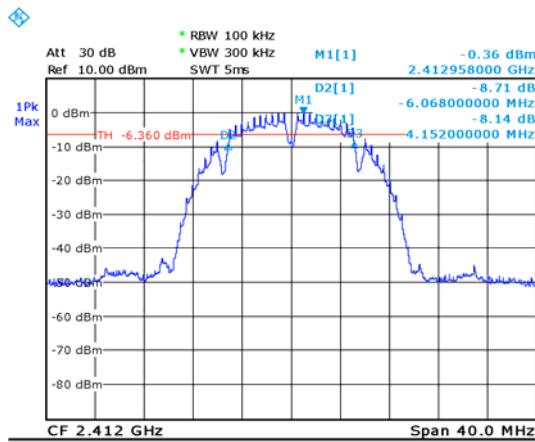
Test Channel	Frequency MHz	6dB bandwidth MHz	Conclusion
802.11b CH1	2412MHz	10.2	Pass
802.11b CH6	2437MHz	10.2	Pass
802.11b CH11	2462MHz	10.0	Pass
802.11g CH1	2412MHz	16.7	Pass
802.11g CH6	2437MHz	16.7	Pass
802.11g CH11	2462MHz	16.7	Pass

When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.

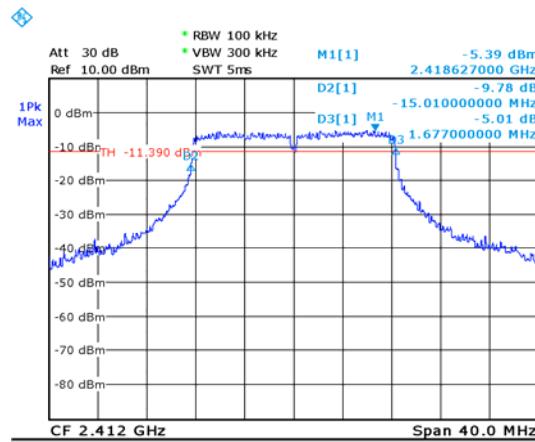
The test plots as following:



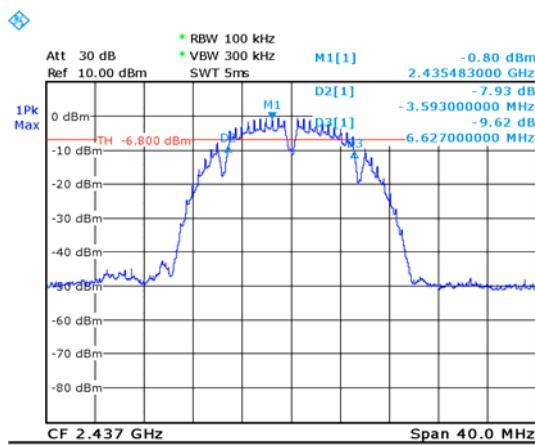
### 802.11b CH1 2412MHz



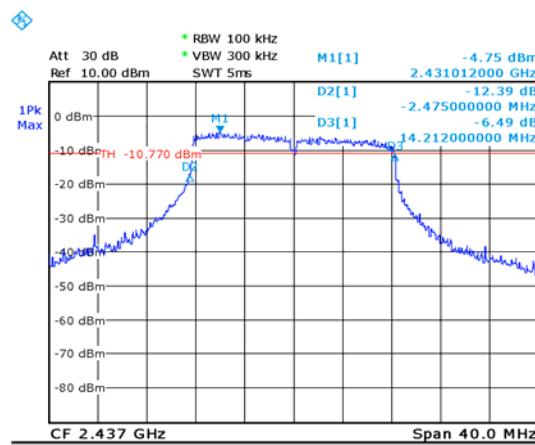
### 802.11g CH1 2412MHz



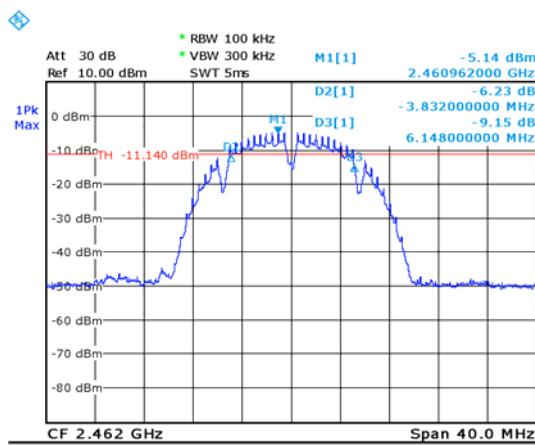
### 802.11b CH6 2437MHz



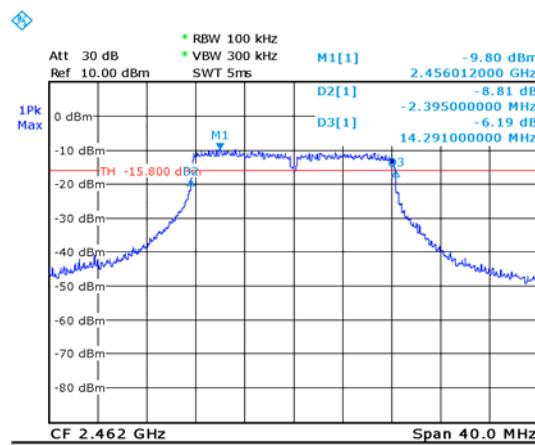
### 802.11g CH6 2437MHz



### 802.11b CH11 2462MHz



### 802.11g CH11 2462MHz



## 6.5. 99% Bandwidth

### 6.5.1. Test limits

No requirement.

### 6.5.2. Test procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set SA trace max hold, then view.

### 6.5.3. Test result

**Pass**

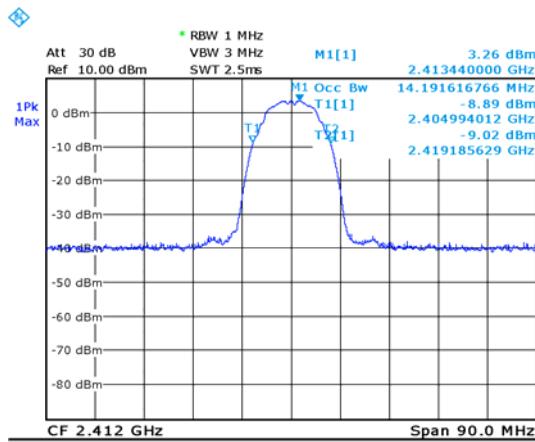
Test Channel	Frequency MHz	99% bandwidth MHz	Conclusion
802.11b CH1	2412MHz	14.2	Pass
802.11b CH6	2437MHz	14.0	Pass
802.11b CH11	2462MHz	14.4	Pass
802.11g CH1	2412MHz	18.9	Pass
802.11g CH6	2437MHz	18.7	Pass
802.11g CH11	2462MHz	18.9	Pass

When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.

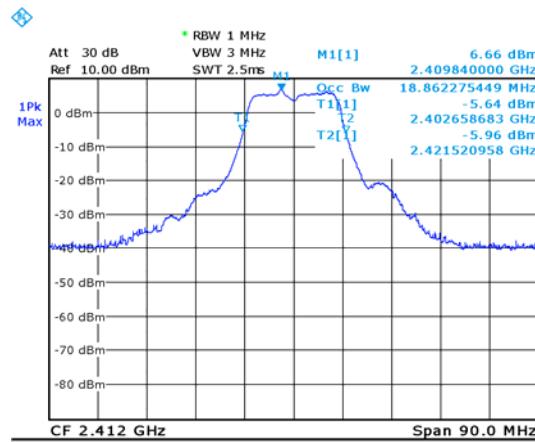
The test plots as following:



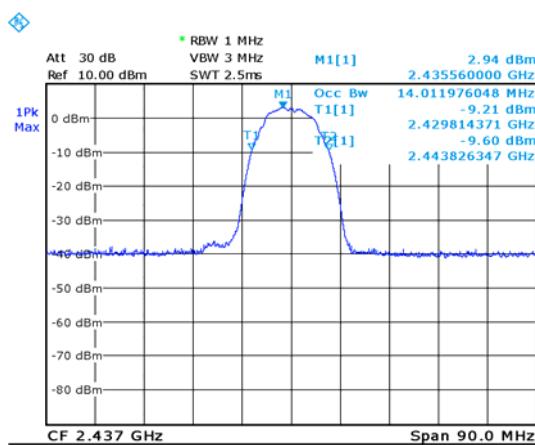
### 802.11b CH1 2412MHz



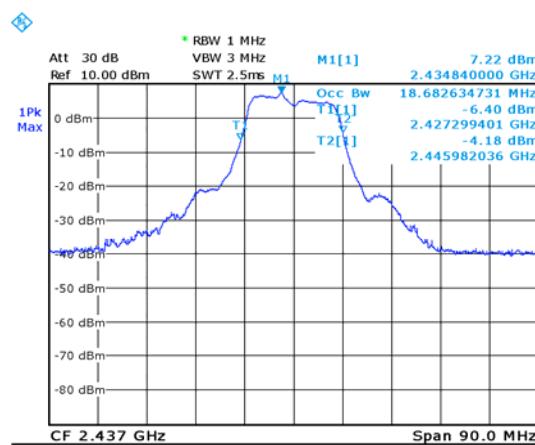
### 802.11g CH1 2412MHz



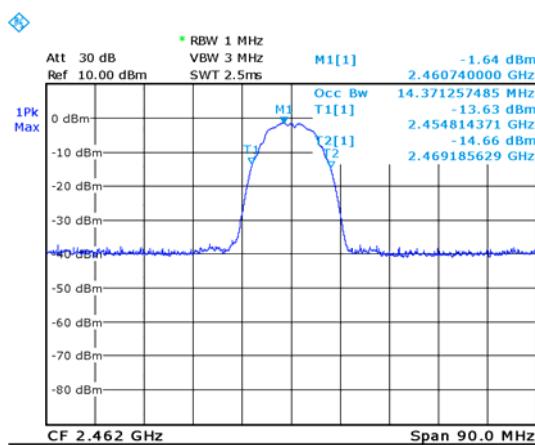
### 802.11b CH2 2437MHz



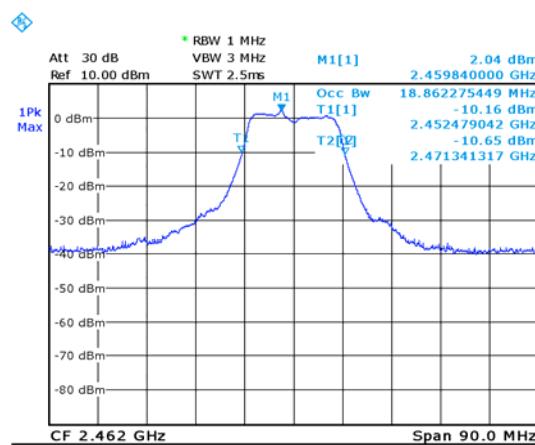
### 802.11g CH6 2437MHz



### 802.11b CH3 2462MHz



### 802.11g CH11 2462MHz



## 6.6. Power Spectral Density Test

### 6.6.1. Test procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set SA Center Frequency = Operation frequency, RBW=3kHz, VBW=30kHz.
4. Set SA trace max hold, then view.

### 6.6.2. Test result

**Pass**

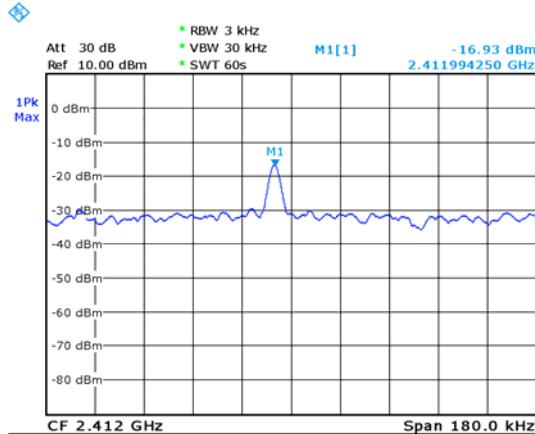
Test Channel	Frequency MHz	Read (dBm)	Factor (dB)	Result (dBm)	Limit
802.11b CH1	2412MHz	-16.93	3.5	-13.43	8.0
802.11b CH6	2437MHz	-17.74	3.5	-14.24	8.0
802.11b CH11	2462MHz	-21.64	3.5	-18.14	8.0
802.11g CH1	2412MHz	-18.21	3.5	-14.71	8.0
802.11g CH6	2437MHz	-17.64	3.5	-14.14	8.0
802.11g CH11	2462MHz	-23.37	3.5	-19.87	8.0

**Note:** Result=Read+Factor

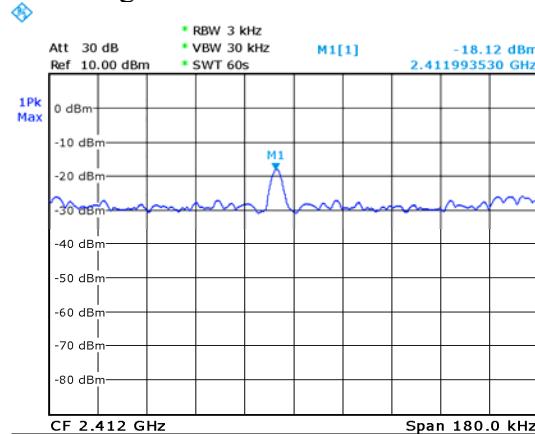
The test plots as following:

When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.

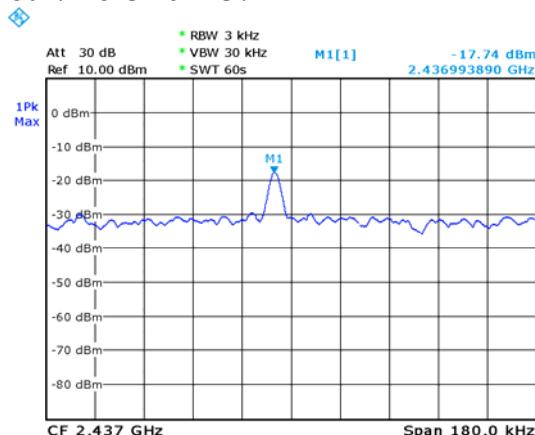
802.11b CH1 2412MHz



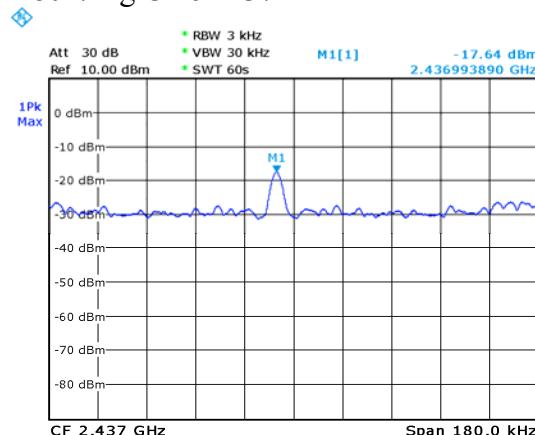
802.11g CH1 2412MHz



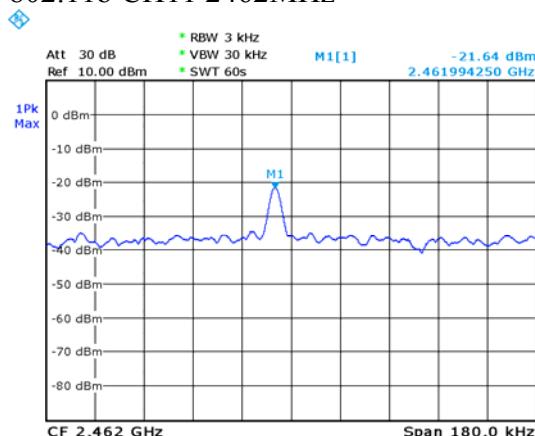
802.11b CH6 2437MHz



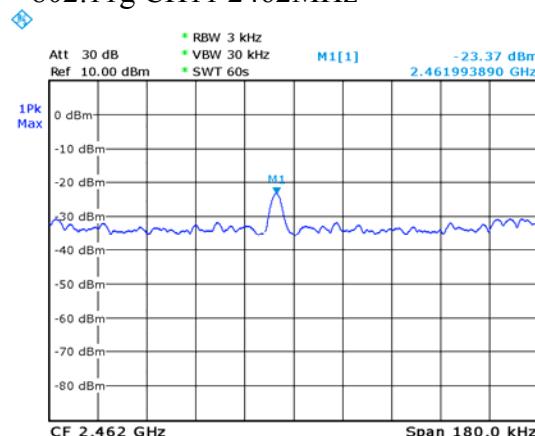
802.11g CH6 2437MHz



802.11b CH11 2462MHz



802.11g CH11 2462MHz



## 6.7. Output Power Test

### 6.7.1. Test procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Power meter through an RF attenuator.

### 6.7.2. Test result

**Pass**

Test Channel	Frequency MHz	Read (dBm)	Factor (dB)	Result (dBm)	Limit
802.11b CH1	2412MHz	10.72	3.5	14.22	30.0
802.11b CH6	2437MHz	10.86	3.5	14.36	30.0
802.11b CH11	2462MHz	10.34	3.5	13.84	30.0
802.11g CH1	2412MHz	11.17	3.5	14.67	30.0
802.11g CH6	2437MHz	11.30	3.5	14.80	30.0
802.11g CH11	2462MHz	11.06	3.5	14.56	30.0

**Note:** Result=Read+Factor

The test plots as following:

When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.

## 6.8. Band Edge

### 6.8.1. Test limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in RSS-GEN and FCC Part 15C, whichever is the lesser attenuation.

### 6.8.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 1G Hz to 18GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used was a receiving antenna.

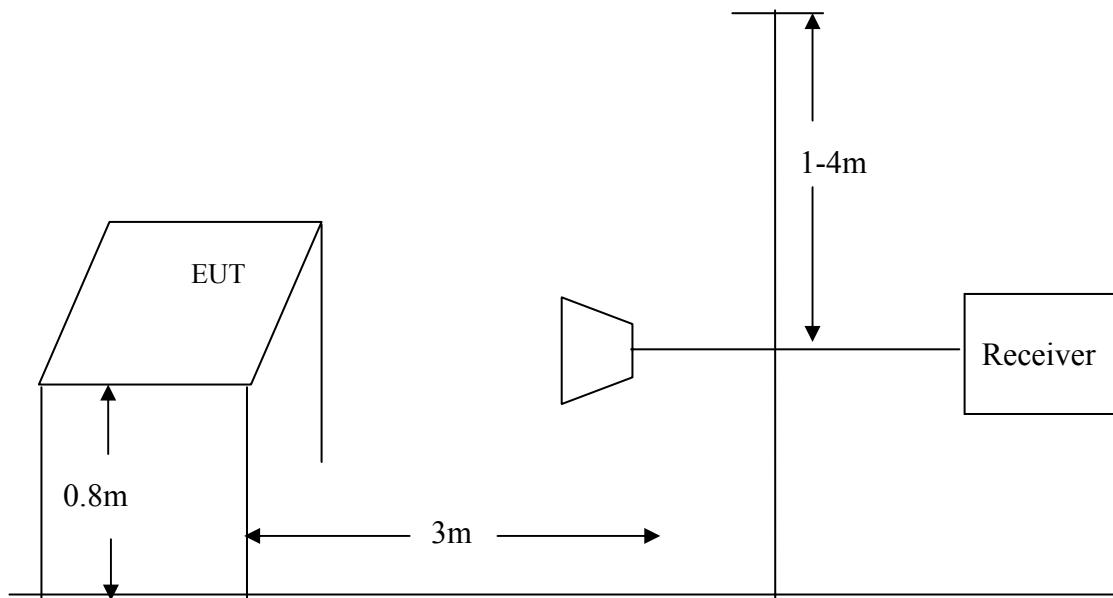
The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

The resolution bandwidth was 1MHz and video bandwidth was 10Hz of the test receiver for Average detection at frequency above 1GHz.

The EUT was tested in Chamber Site.

When IEEE 802.11b's data rate was 5.5Mbps ; IEEE 802.11g's data rate was 9Mbps, the EUT have maximum output power and all the test was performed in this data rate set.

### 6.8.3. Test Setup Diagram



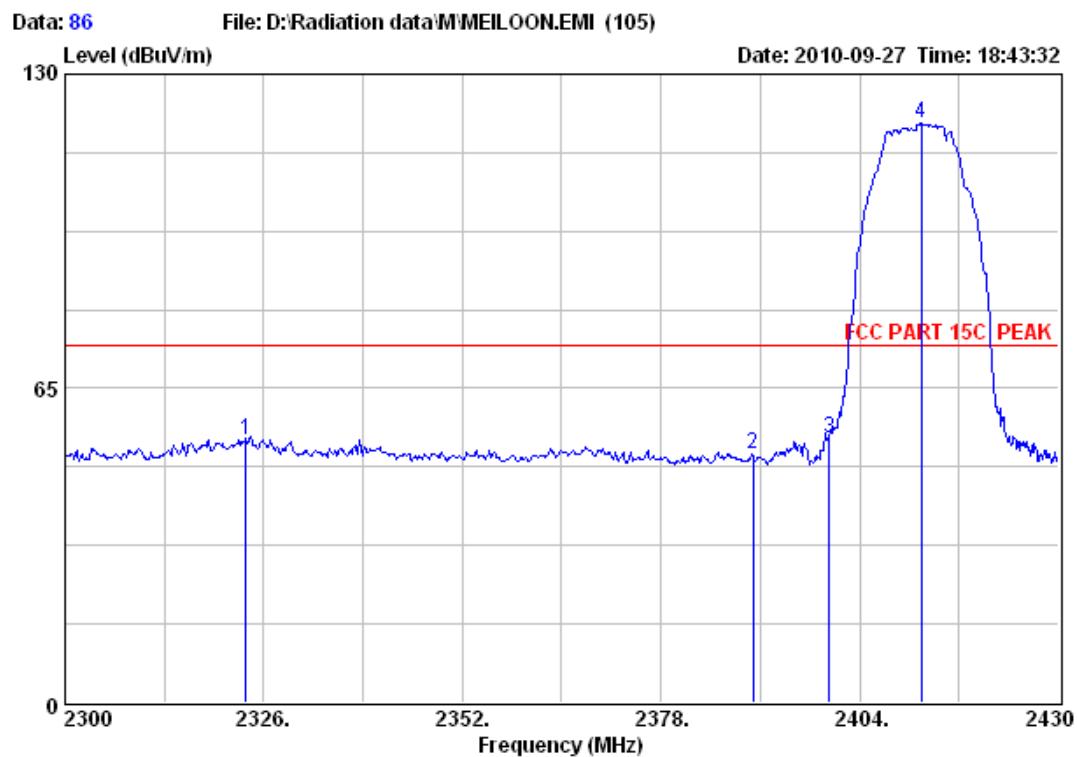
### 6.8.4. Test result

**PASS.**

The test plots as following:

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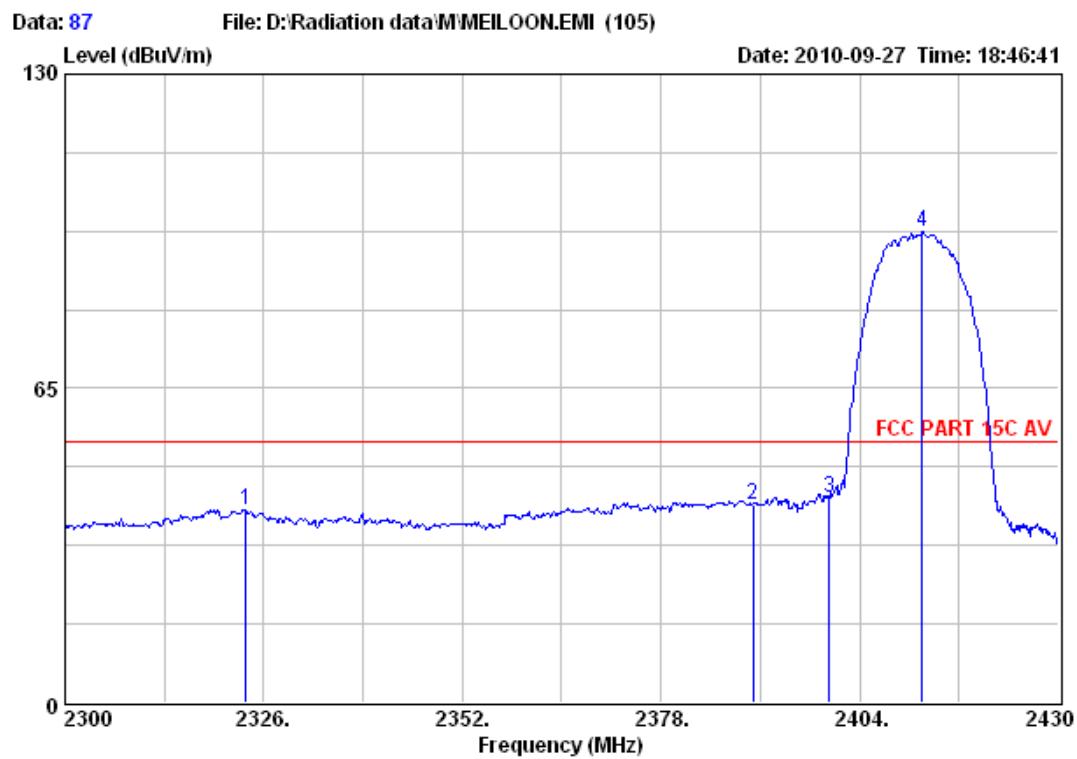


Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Emission			Ant.	Cable			
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
<hr/>							
1 2323.66	54.46	74.00	19.54	20.81	31.43	2.22	Peak
2 2390.00	51.47	74.00	22.53	17.77	31.48	2.22	Peak
3 2400.00	54.59	74.00	19.41	20.86	31.50	2.23	Peak
4 2412.06	119.70	74.00	-45.70	85.97	31.50	2.23	Peak

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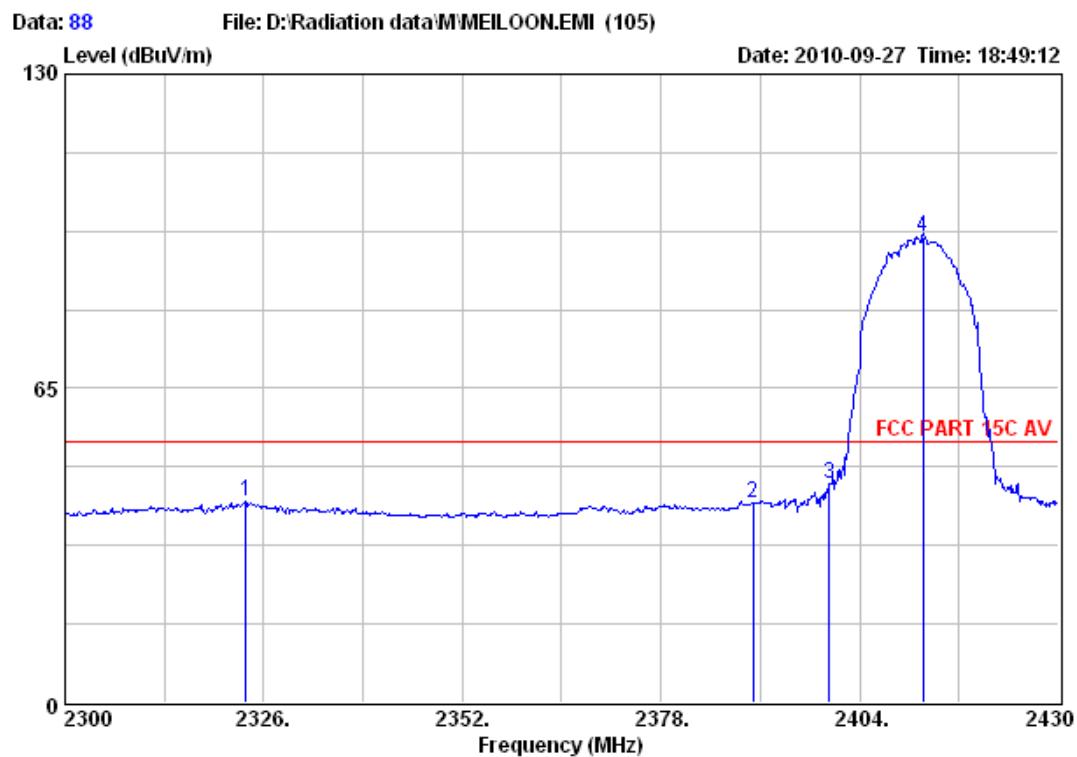


Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2323.66	39.91	54.00	14.09	6.26	31.43	2.22	Average
2 2390.00	40.78	54.00	13.22	7.08	31.48	2.22	Average
3 2400.00	42.38	54.00	11.62	8.65	31.50	2.23	Average
4 2412.19	97.42	54.00	-43.42	63.69	31.50	2.23	Average

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Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Emission			Ant.	Cable			
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
<hr/>							
1 2323.66	41.59	54.00	12.41	7.94	31.43	2.22	Average
2 2390.00	41.37	54.00	12.63	7.67	31.48	2.22	Average
3 2400.00	45.11	54.00	8.89	11.38	31.50	2.23	Average
4 2412.32	96.16	54.00	-42.16	62.43	31.50	2.23	Average

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Data: 89 File: D:\Radiation data\MMEILOON.EMI (105)

Level (dBuV/m) Date: 2010-09-27 Time: 18:52:51

130

65

0

2300 2326. 2352. 2378. 2404. 2430.

Frequency (MHz)

1 2 3 4

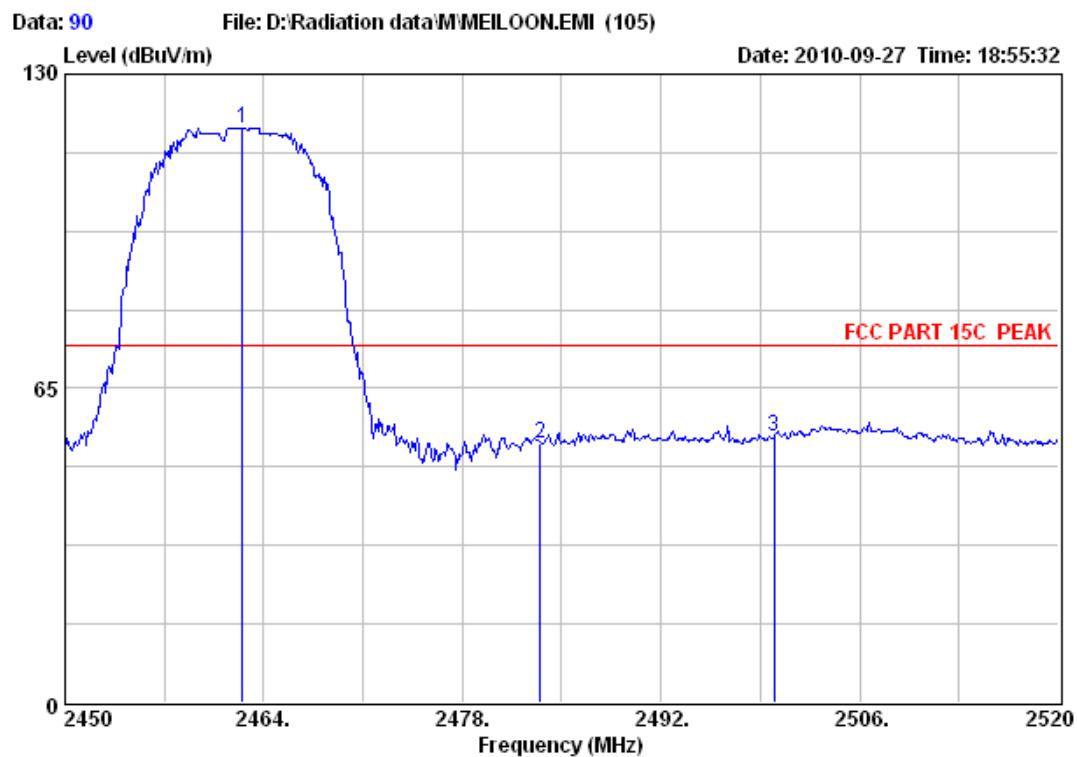
FCC PART 15C PEAK

Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH1 2412MHz

Emission				Ant.	Cable		
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2323.66	56.48	74.00	17.52	22.83	31.43	2.22	Peak
2 2390.00	52.34	74.00	21.66	18.64	31.48	2.22	Peak
3 2400.00	59.39	74.00	14.61	25.66	31.50	2.23	Peak
4 2412.32	119.34	74.00	-45.34	85.61	31.50	2.23	Peak

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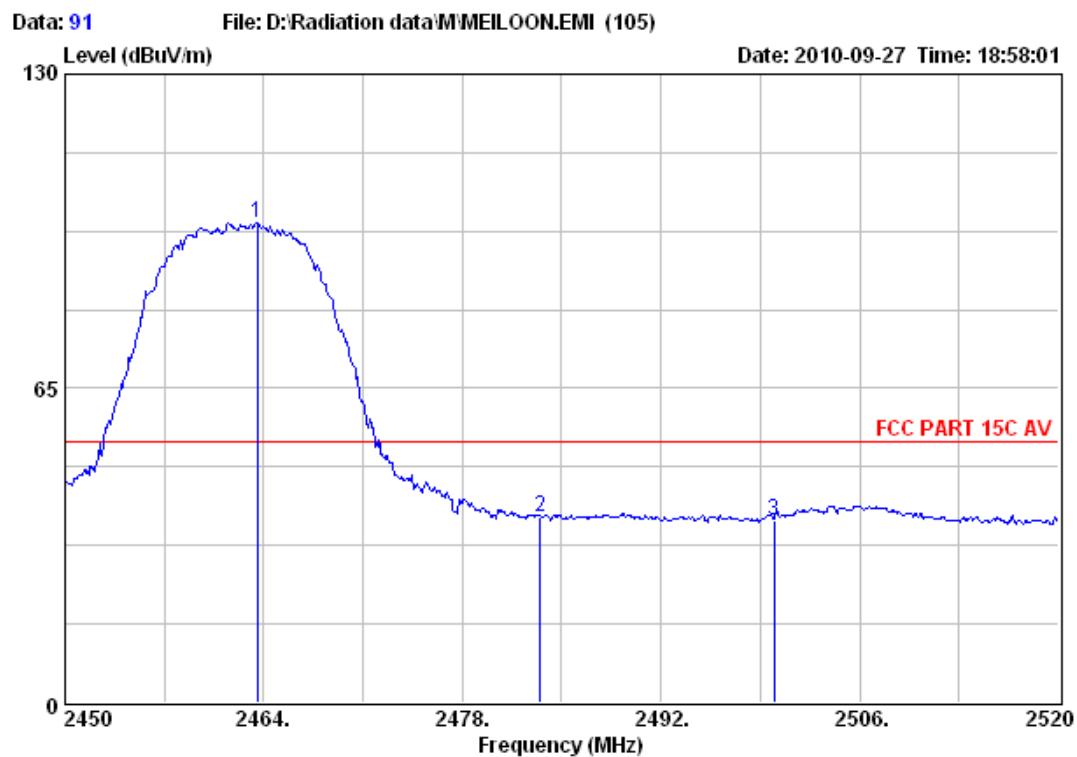


Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Emission				Ant.	Cable		
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2462.53	118.95	74.00	-44.95	85.16	31.56	2.23	Peak
2 2483.50	53.42	74.00	20.58	19.61	31.58	2.23	Peak
3 2500.00	54.88	74.00	19.12	21.05	31.60	2.23	Peak

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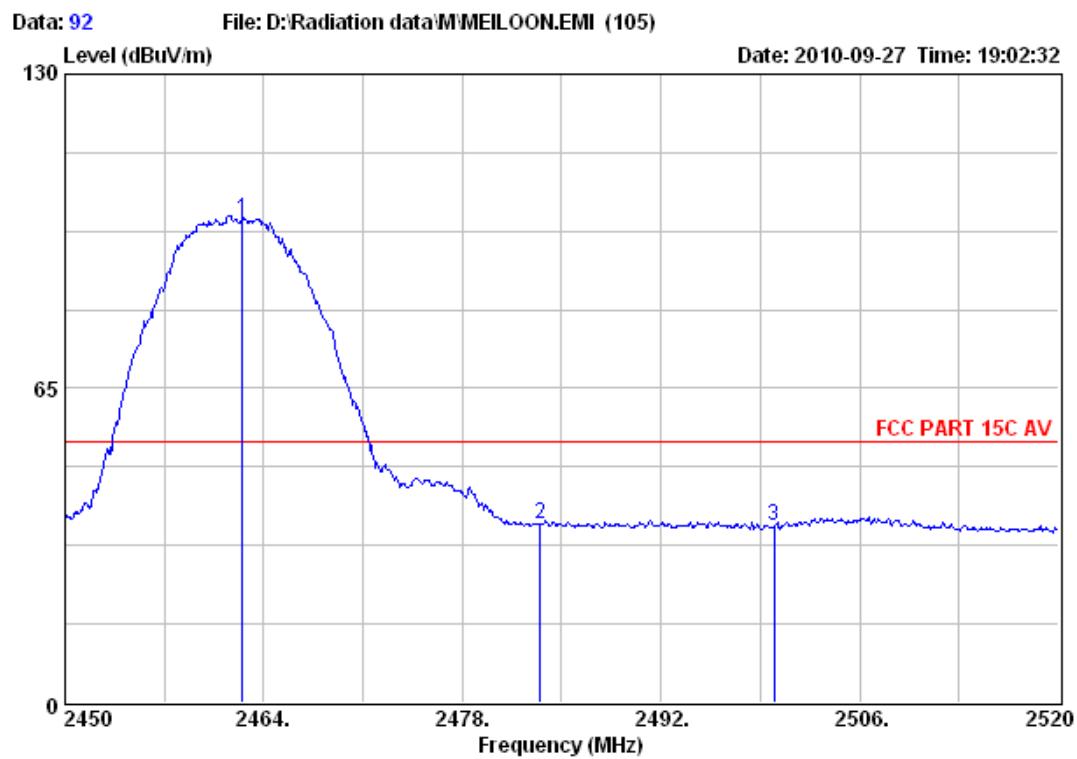


Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
<hr/>								
1 2463.58	99.34	54.00	-45.34	65.55	31.56	2.23	Average	
2 2483.50	38.28	54.00	15.72	4.47	31.58	2.23	Average	
3 2500.00	37.82	54.00	16.18	3.99	31.60	2.23	Average	

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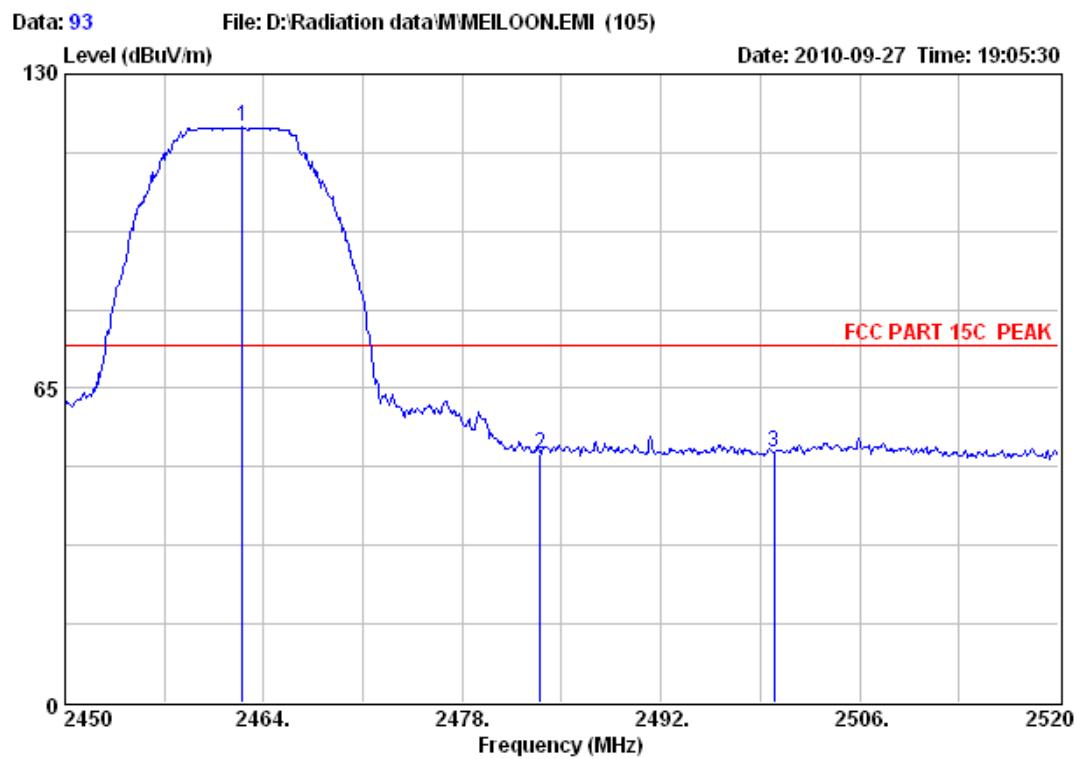
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Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)			Factor	Loss (dB/m)	
1 2462.53	99.92	54.00	-45.92	66.13	31.56	2.23	Average
2 2483.50	36.76	54.00	17.24	2.95	31.58	2.23	Average
3 2500.00	36.42	54.00	17.58	2.59	31.60	2.23	Average



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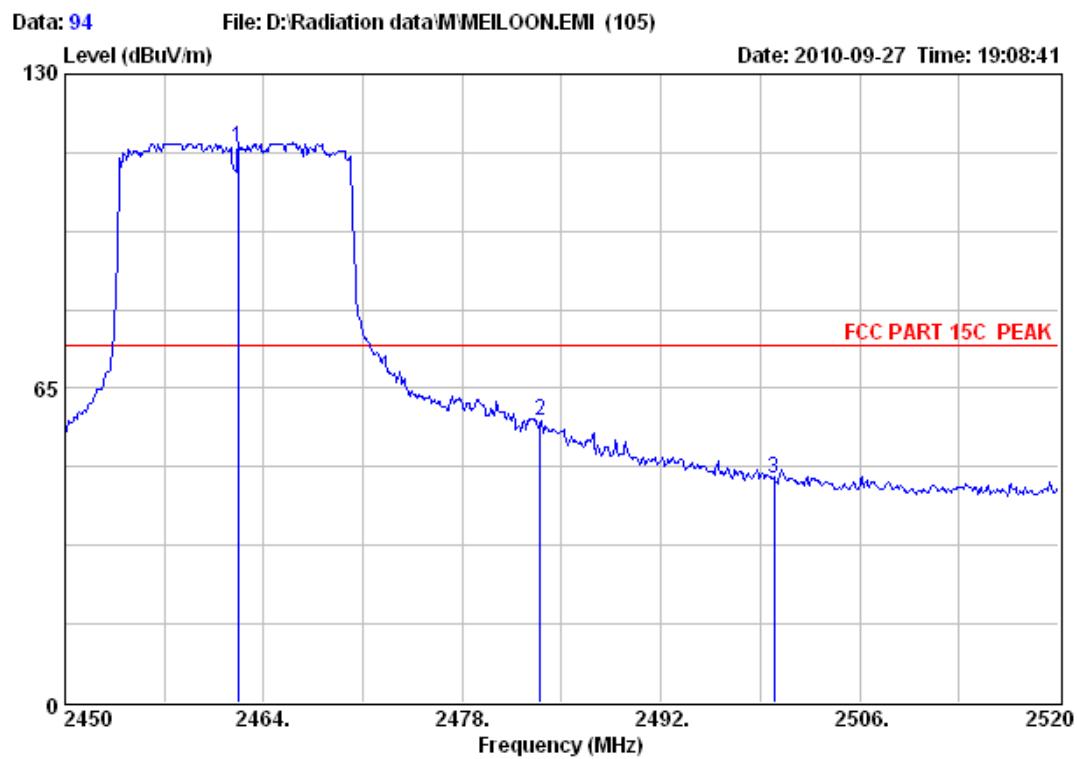
Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11b CH11 2462MHz

Freq. (MHz)	Emission			Ant. Cable				Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)		
1 2462.53	119.01	74.00	-45.01	85.22	31.56	2.23	Peak	
2 2483.50	51.39	74.00	22.61	17.58	31.58	2.23	Peak	
3 2500.00	51.69	74.00	22.31	17.86	31.60	2.23	Peak	



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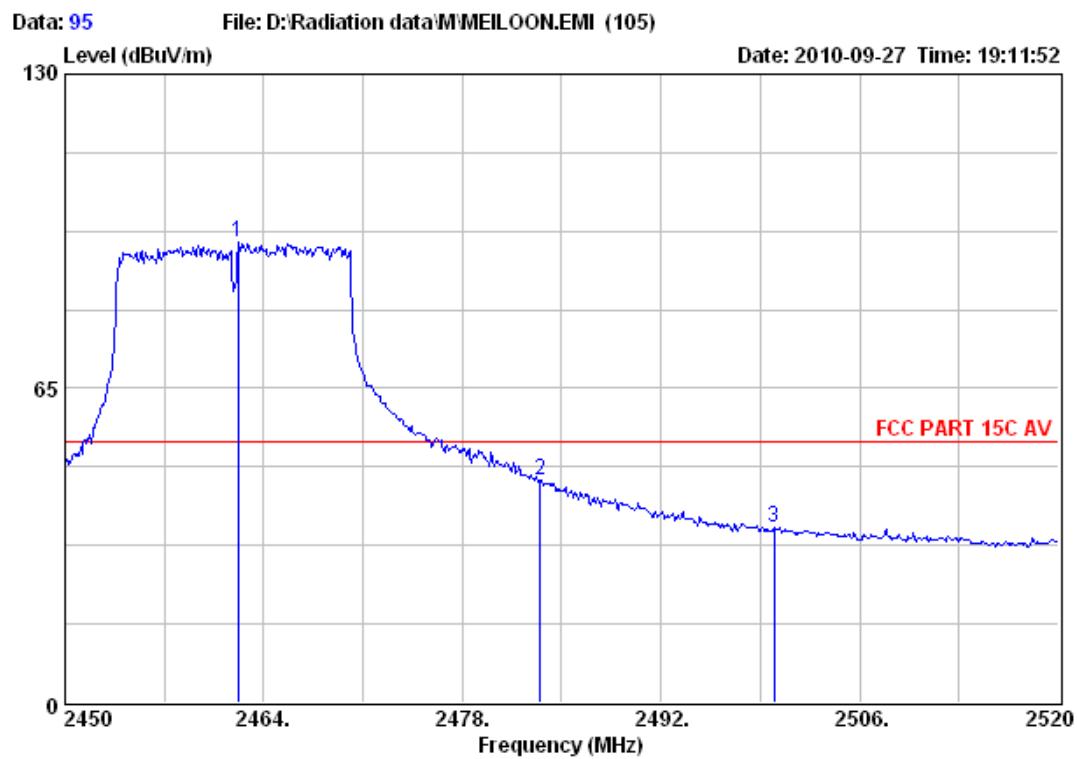
Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission			Ant. Cable			Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	
1 2462.18	114.78	74.00	-40.78	80.99	31.56	2.23	Peak
2 2483.50	58.21	74.00	15.79	24.40	31.58	2.23	Peak
3 2500.00	46.38	74.00	27.62	12.55	31.60	2.23	Peak



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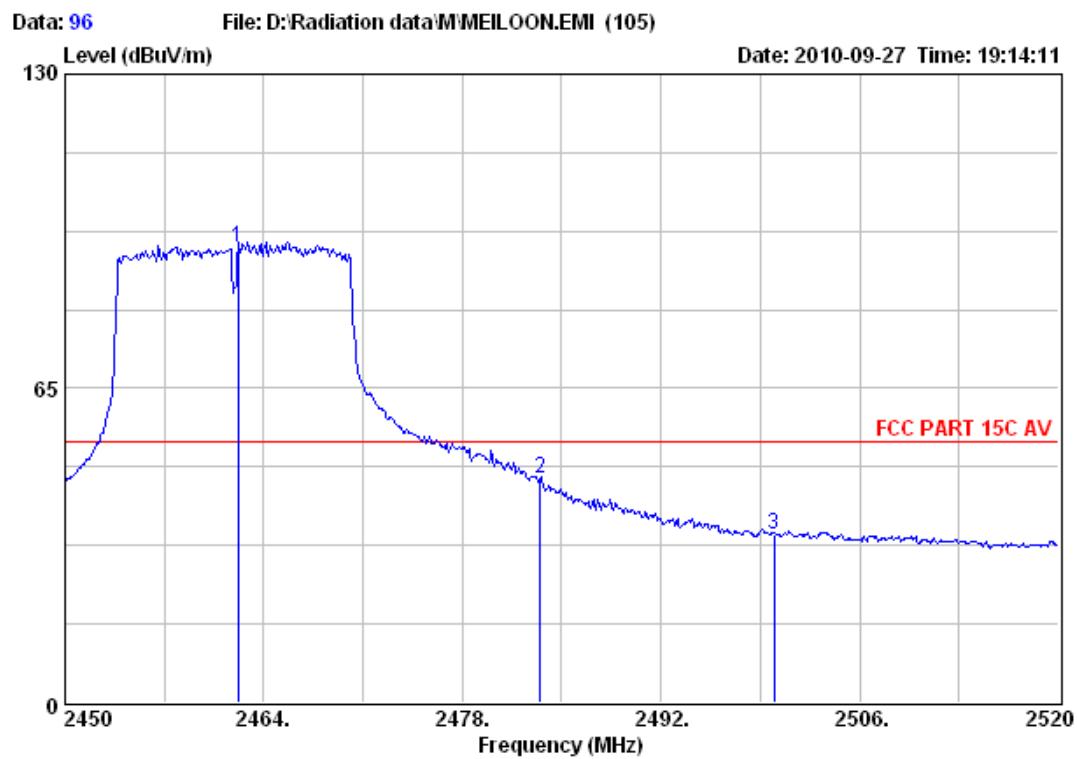
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)			Factor	Loss (dB/m)	
1 2462.18	95.28	54.00	-41.28	61.49	31.56	2.23	Average
2 2483.50	45.89	54.00	8.11	12.08	31.58	2.23	Average
3 2500.00	36.21	54.00	17.79	2.38	31.60	2.23	Average



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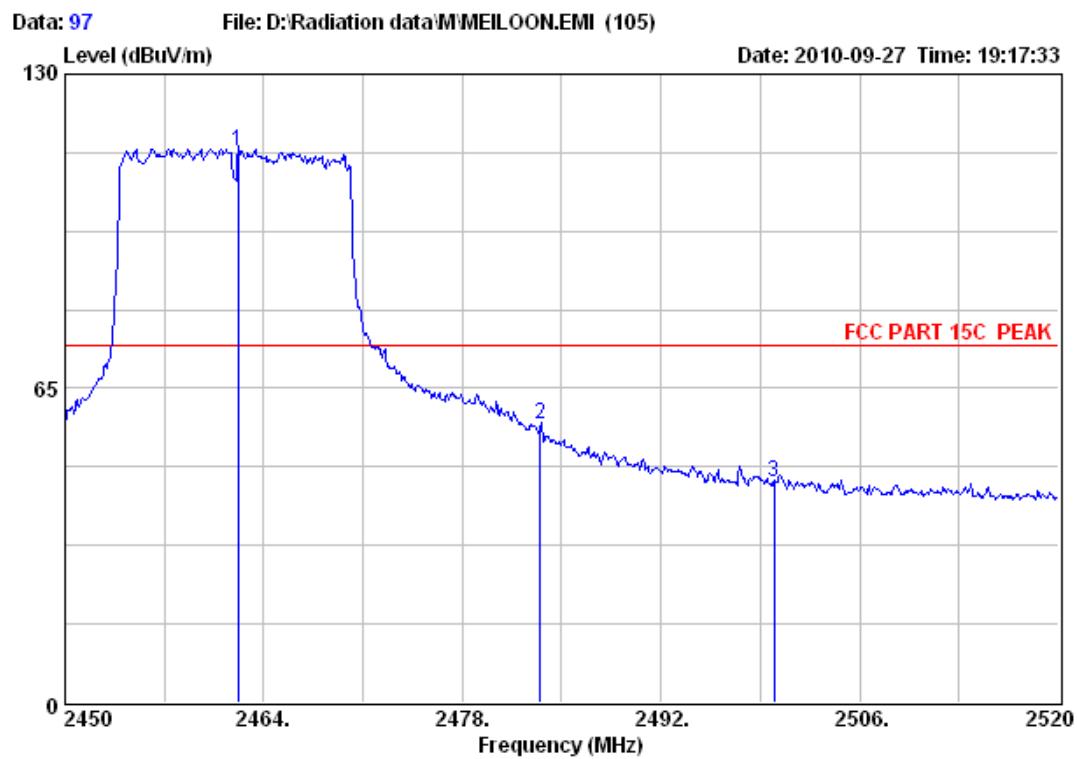
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)			Factor	Loss (dB/m)	
1 2462.18	94.32	54.00	-40.32	60.53	31.56	2.23	Average
2 2483.50	46.51	54.00	7.49	12.70	31.58	2.23	Average
3 2500.00	34.91	54.00	19.09	1.08	31.60	2.23	Average



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Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2462MHz

Freq. (MHz)	Level (dBuV/m)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Limits (dBuV/m)	Margin (dB)					
<hr/>								
1 2462.18	113.98	74.00	-39.98	80.19	31.56	2.23	Peak	
2 2483.50	57.72	74.00	16.28	23.91	31.58	2.23	Peak	
3 2500.00	45.76	74.00	28.24	11.93	31.60	2.23	Peak	



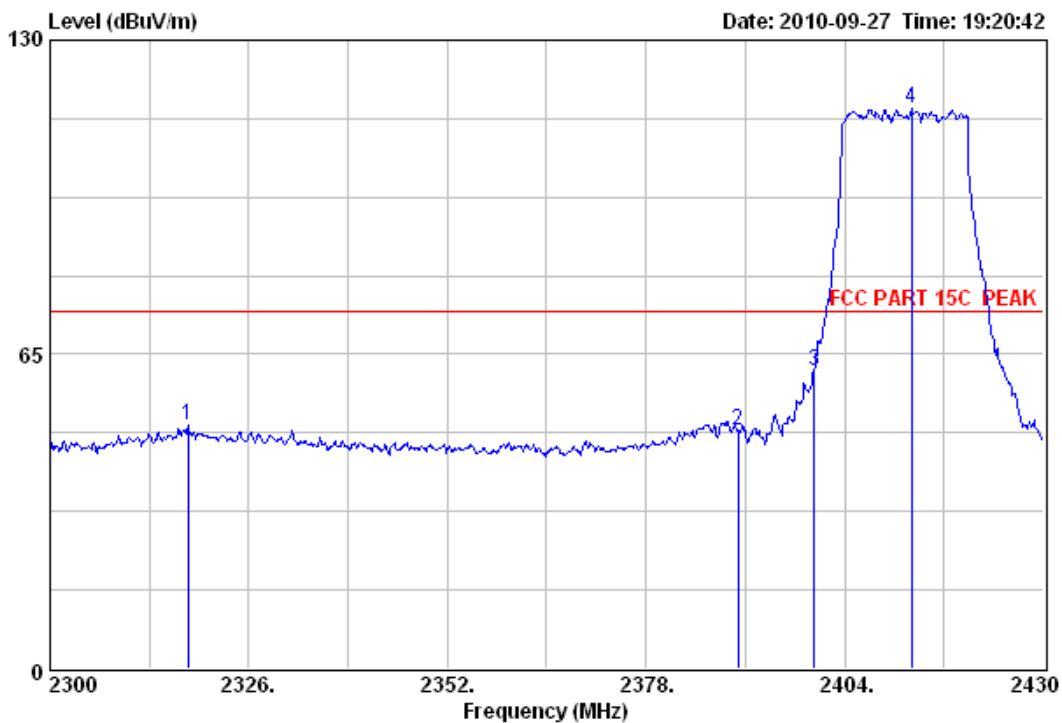
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File: D:\Radiation data\MEILOON.EMI (105)

Date: 2010-09-27 Time: 19:20:42

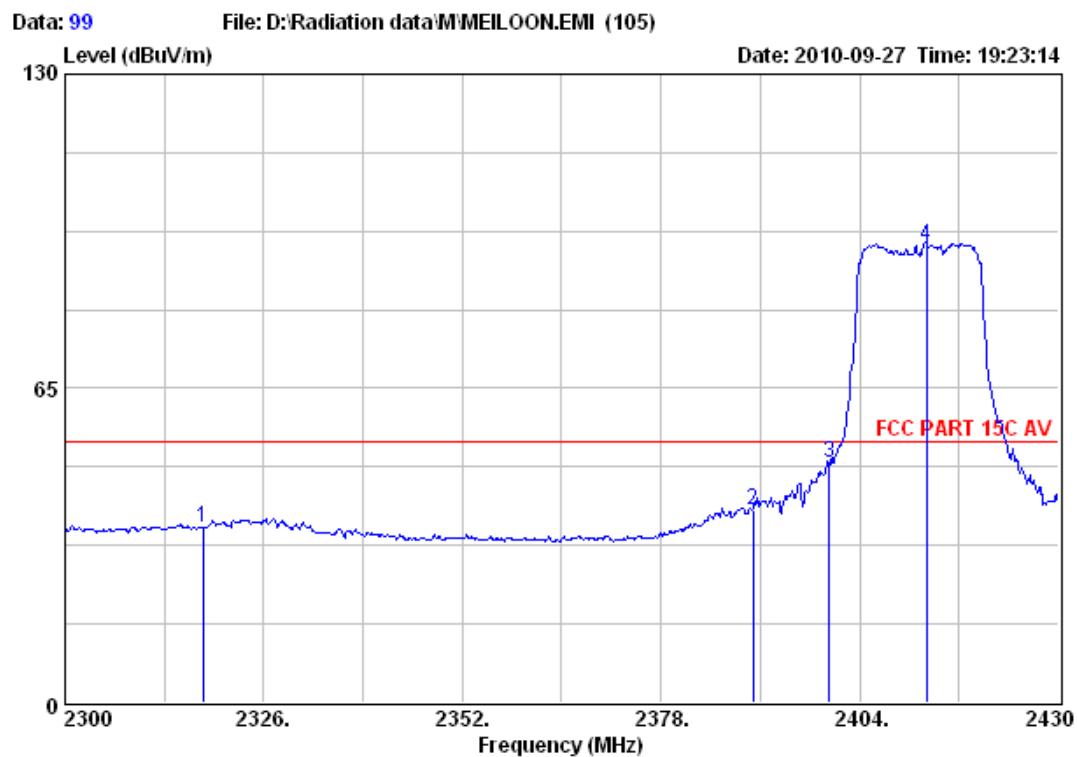


Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11a CH11 2412MHz

Emission				Ant.	Cable		
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2318.07	50.19	74.00	23.81	16.56	31.41	2.22	Peak
2 2390.00	49.12	74.00	24.88	15.42	31.48	2.22	Peak
3 2400.00	61.67	74.00	12.33	27.94	31.50	2.23	Peak
4 2412.71	115.85	74.00	-41.85	82.12	31.50	2.23	Peak

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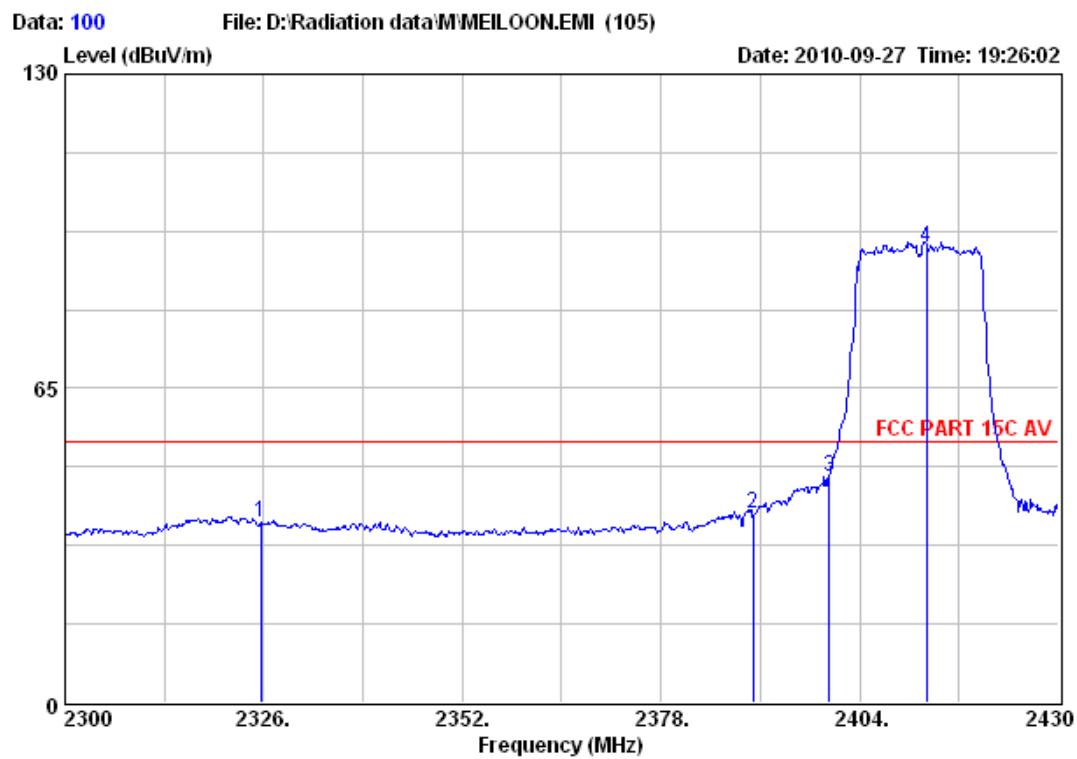
Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2412MHz

Emission			Ant.	Cable			
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2318.07	36.32	54.00	17.68	2.69	31.41	2.22	Average
2 2390.00	39.72	54.00	14.28	6.02	31.48	2.22	Average
3 2400.00	49.57	54.00	4.43	15.84	31.50	2.23	Average
4 2412.71	94.57	54.00	-40.57	60.84	31.50	2.23	Average



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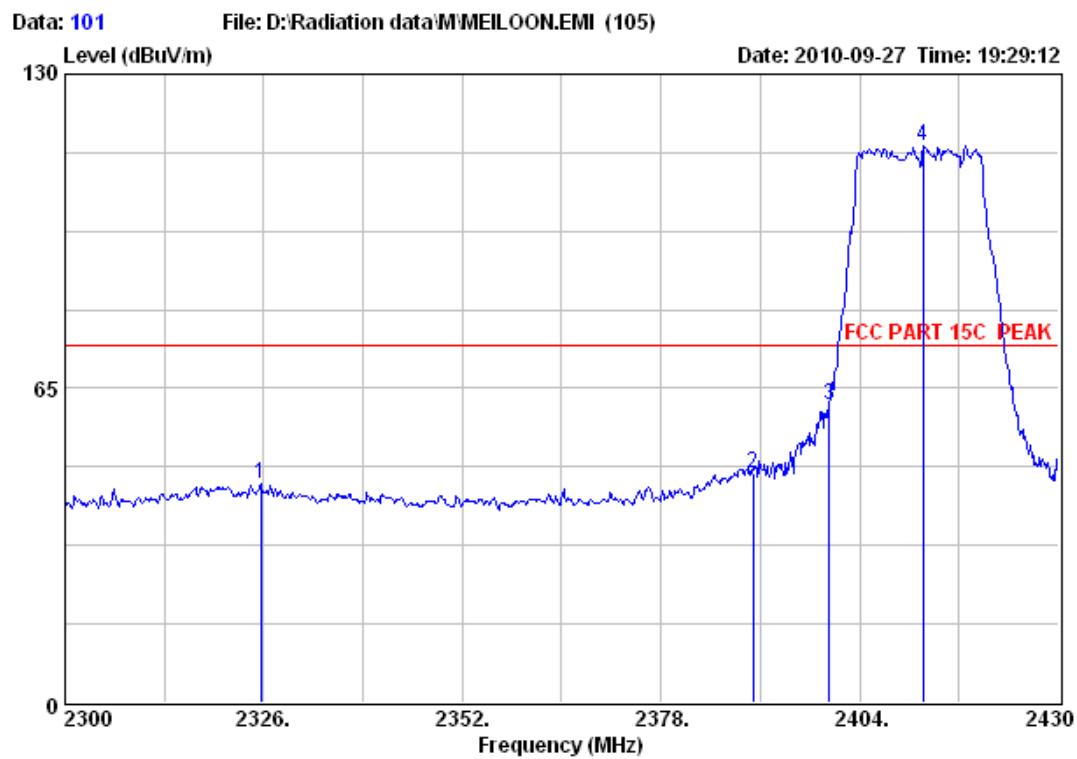


Test Site : 10m Chamber  
Limit : FCC PART 15C AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2412MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2325.61	37.18	54.00	16.82	3.53	31.43	2.22	Average
2 2390.00	39.18	54.00	14.82	5.48	31.48	2.22	Average
3 2400.00	46.78	54.00	7.22	13.05	31.50	2.23	Average
4 2412.71	94.32	54.00	-40.32	60.59	31.50	2.23	Average

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Test Site : 10m Chamber  
Limit : FCC PART 15C PEAK  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Internet Radio  
M/N : AirStream20USA  
Power : DC 12V from adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
Test Mode : TX Mode 802.11g CH11 2412MHz

Emission			Ant.	Cable			
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
<hr/>							
1 2325.61	45.18	74.00	28.82	11.53	31.43	2.22	Peak
2 2390.00	47.58	74.00	26.42	13.88	31.48	2.22	Peak
3 2400.00	61.42	74.00	12.58	27.69	31.50	2.23	Peak
4 2412.32	115.12	74.00	-41.12	81.39	31.50	2.23	Peak

## 6.9. ANTENNA REQUIREMENT

### 6.9.1. 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 6.9.2. ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is Integral antenna (see EUT photo) that no antenna other than that furnished by the responsible party shall be used with the device. The maximum peak gain of this antenna is only 2.6dBi.