

## 6.3. 6dB Bandwidth

### 6.3.1. Test limits

>500kHz.

### 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 SA Center Frequency = Operation frequency, RBW=100kHz,VBW=300kHz.
4. Set SA trace max hold, then view.

### 6.3.3. Test result

**Pass**

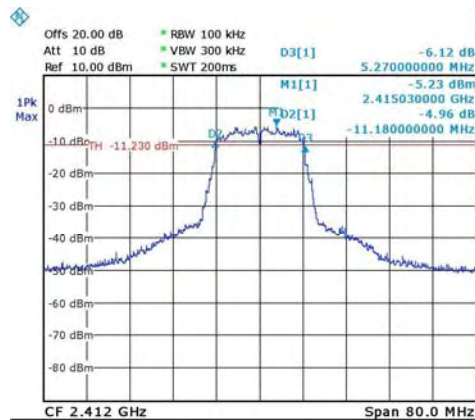
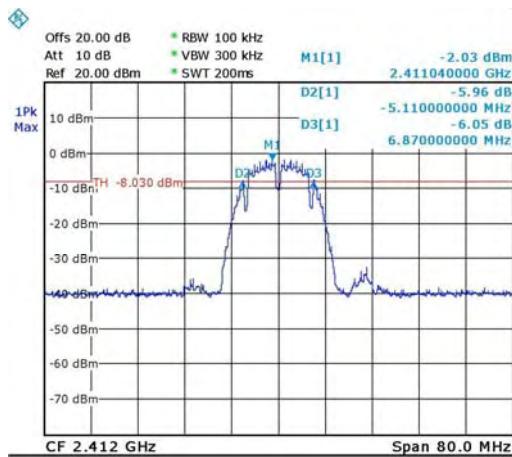
Test Channel	Frequency MHz	6dB bandwidth MHz	Conclusion
802.11b CH1	2412MHz	11.98	Pass
802.11b CH6	2437MHz	12.39	Pass
802.11b CH11	2462MHz	12.39	Pass
802.11g CH1	2412MHz	16.45	Pass
802.11g CH6	2437MHz	16.45	Pass
802.11g CH11	2462MHz	16.45	Pass
802.11n HT20 CH1	2412MHz	17.25	Pass
802.11 n HT20 CH6	2437MHz	16.93	Pass
802.11 n HT20 CH11	2462MHz	16.77	Pass
802.11 n HT20 CH1	2422MHz	34.33	Pass
802.11 n HT20 CH4	2437MHz	34.49	Pass
802.11 n HT20 CH7	2452MHz	34.32	Pass

When IEEE 802.11b's data rate was 11Mbps ; IEEE 802.11g's data rate was 54Mbps, When IEEE 802.11n HT20's data rate was 130Mbps ; IEEE 802.11n HT40's data rate was 135Mbps the EUT have maximum output power and all the test was performed in this data rate set.

The test plots as following:

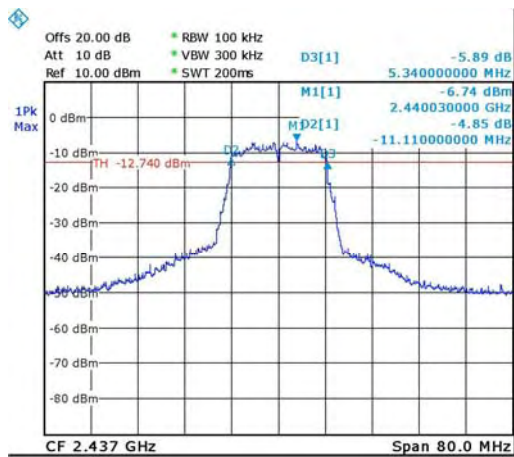
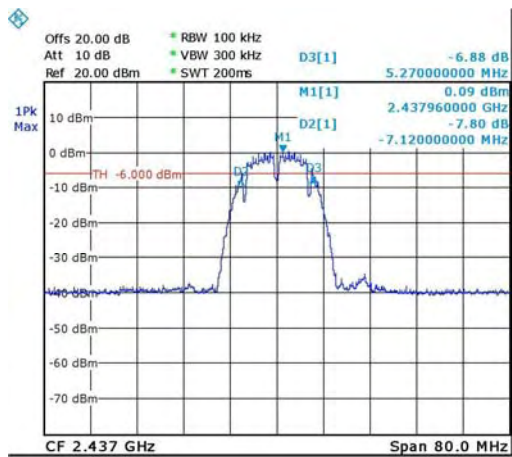
802.11b CH1 2412MHz

802.11g CH1 2412MHz



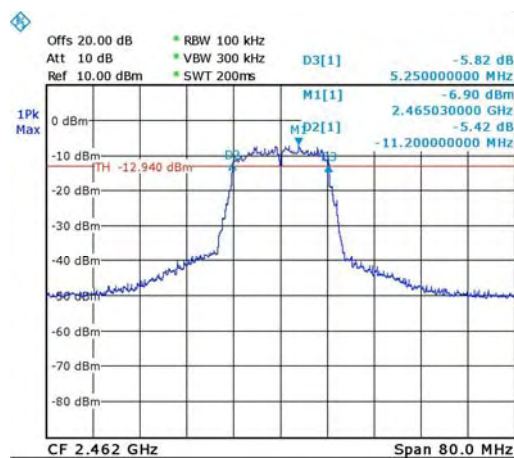
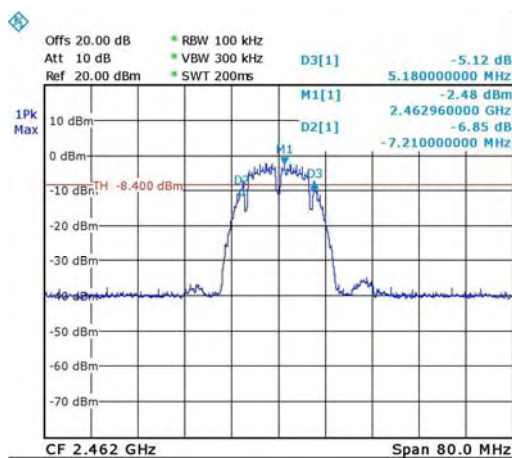
802.11b CH6 2437MHz

802.11g CH6 2437MHz



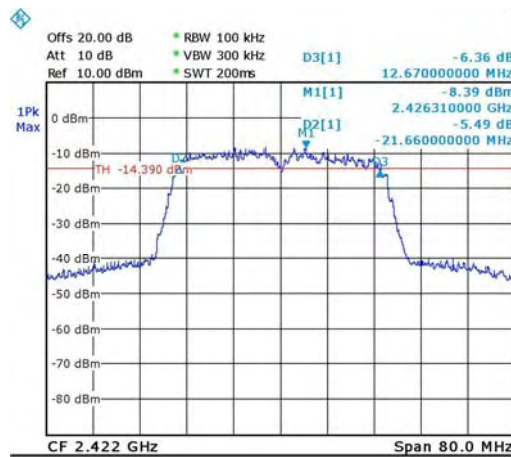
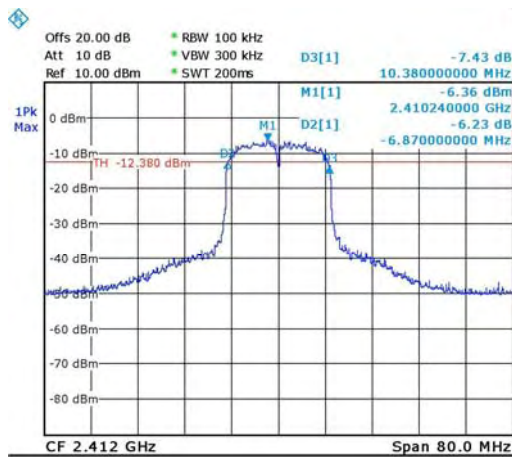
802.11b CH11 2462MHz

802.11g CH11 2462MHz



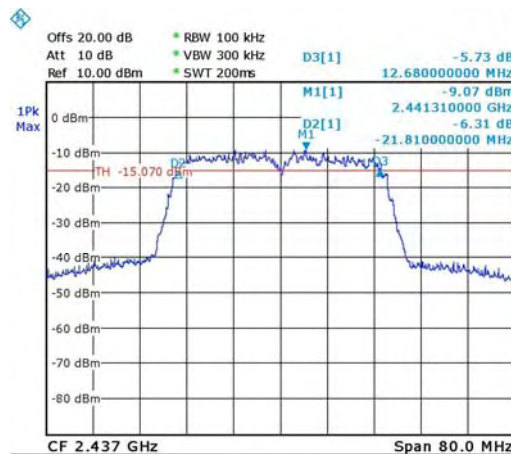
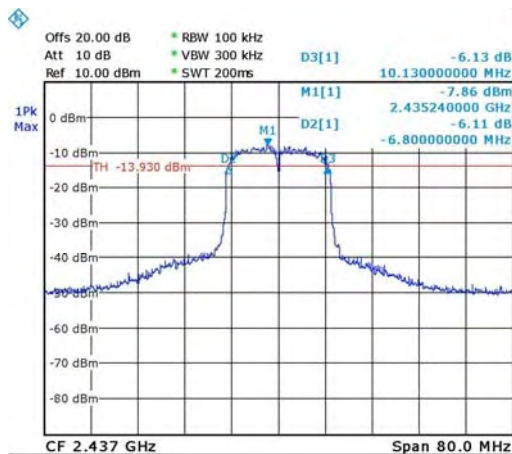
802.11n HT20 CH1 2412MHz

802.11n HT40 CH1 2422MHz



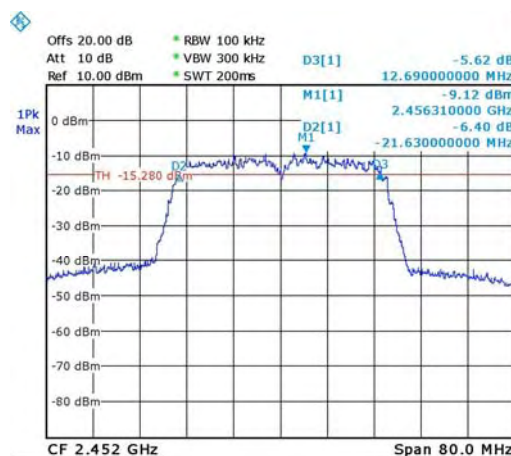
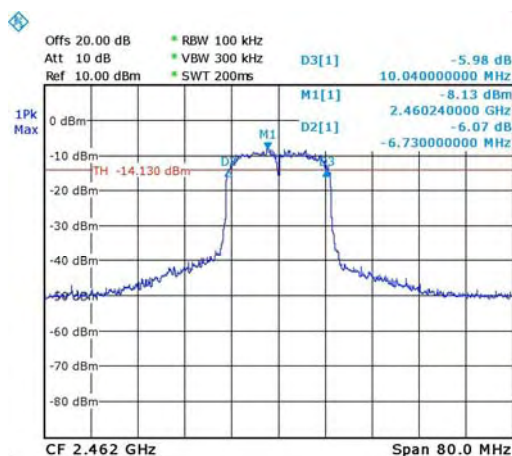
802.11 n HT20 CH6 2437MHz

802.11 n HT40 CH4 2437MHz



802.11 n HT20 CH11 2462MHz

802.11 n HT40 CH7 2452MHz



## 6.4. Power Spectral Density Test

### 6.4.1. 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=300kHz.
4. Set SA trace max hold, then view.

### 6.4.2. Test result

#### Pass

Test Channel	Read (dBm)	Factor (dB)	Result (dBm)	Limit
802.11b CH1	-22.30	6	-16.30	8.0
802.11b CH6	-23.68	6	-17.68	8.0
802.11b CH11	-27.44	6	-21.44	8.0
802.11g CH1	-26.78	6	-20.68	8.0
802.11g CH6	-28.03	6	-22.03	8.0
802.11g CH11	-27.44	6	-21.44	8.0
802.11n HT20 CH1	-28.46	6	-22.46	8.0
802.11 n HT20 CH6	-27.22	6	-21.22	8.0
802.11 n HT20 CH11	-27.46	6	-21.46	8.0
802.11 n HT40 CH1	-28.84	6	-22.84	8.0
802.11 n HT40 CH4	-29.59	6	-23.59	8.0
802.11 n HT40 CH7	-29.79	6	-23.79	8.0

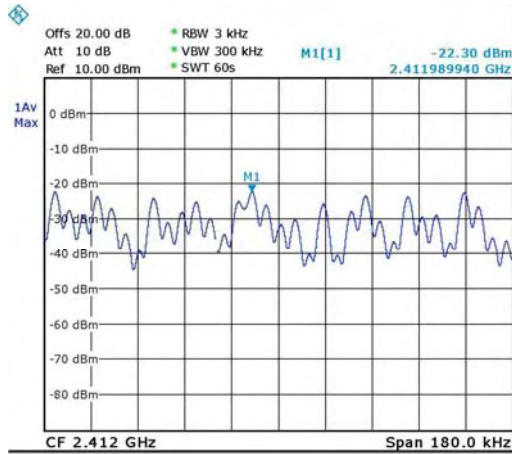
**Note:** Result=Read+Factor

Factor= RF attenuator loss(3dB)+Cable loss(3dB)

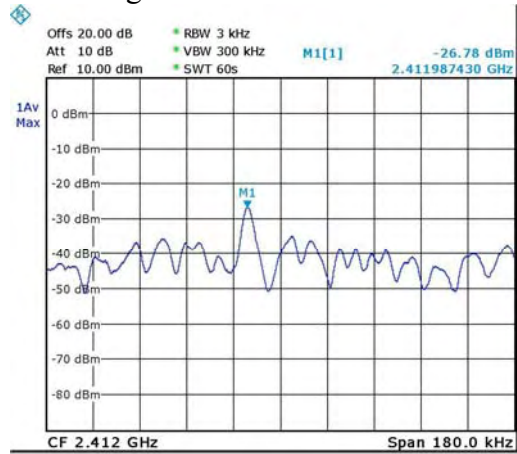
The test plots as following:

When IEEE 802.11b's data rate was 11Mbps ; IEEE 802.11g's data rate was 54Mbps,  
When IEEE 802.11n HT20's data rate was 130Mbps ; IEEE 802.11n HT40's data rate  
was 135Mbps the EUT have maximum output power and all the test was performed  
in this data rate set.

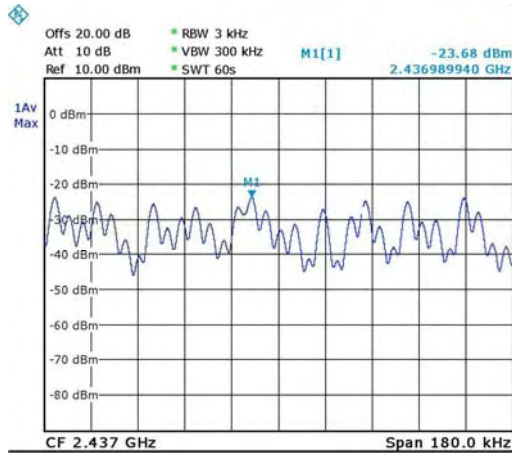
802.11b CH1 2412MHz



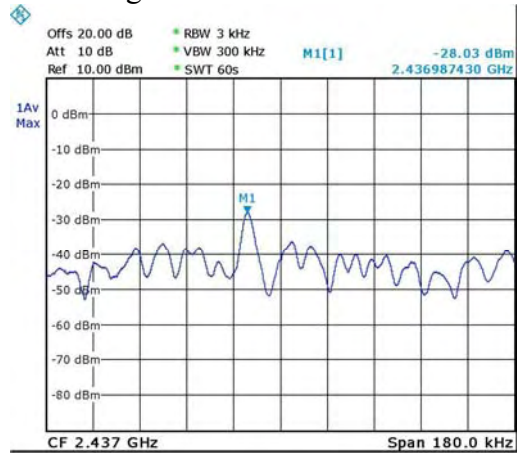
802.11g CH11 2412MHz



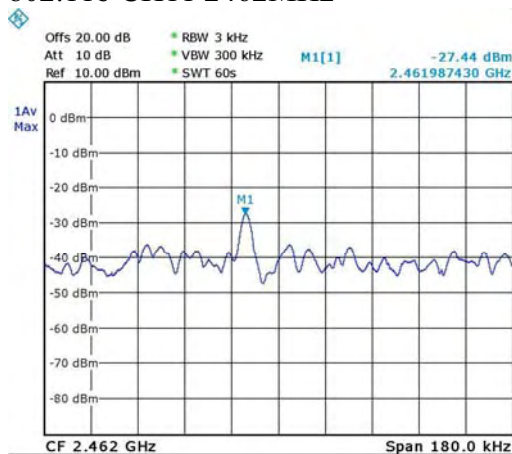
802.11b CH6 2437MHz



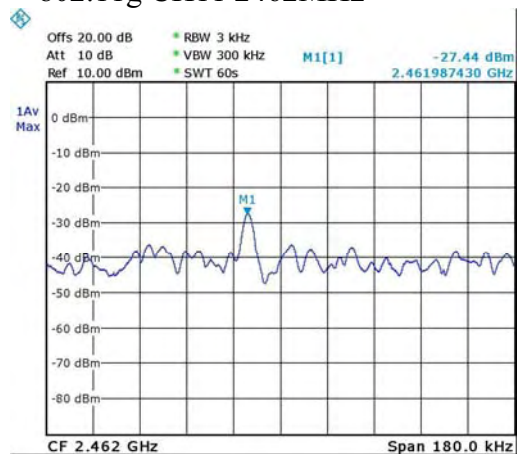
802.11g CH11 2437MHz



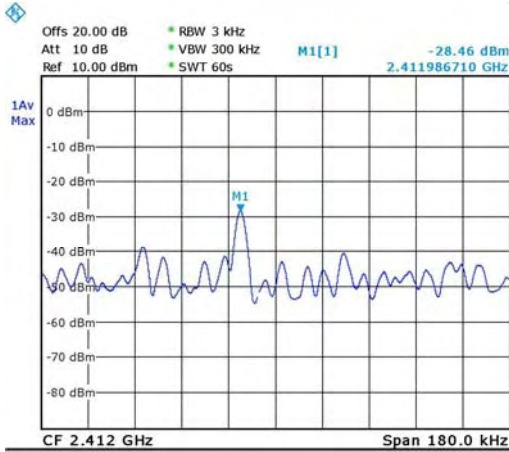
802.11b CH11 2462MHz



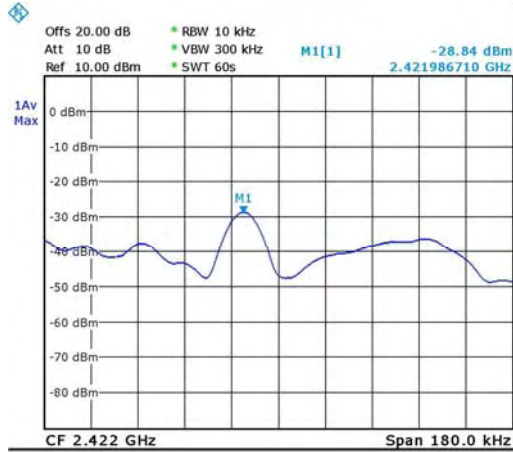
802.11g CH11 2462MHz



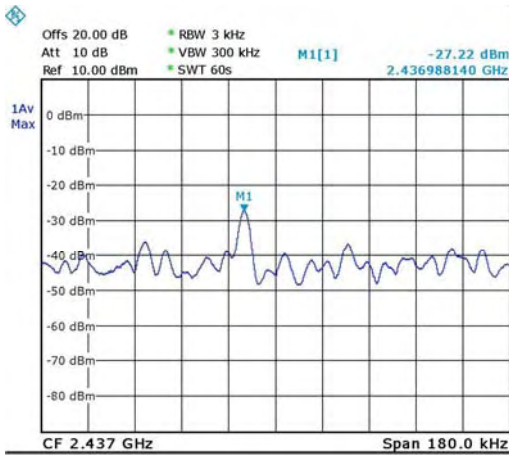
802.11n HT20 CH1 2412MHz



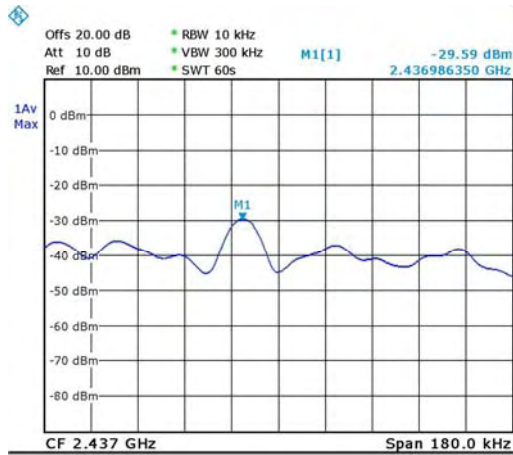
802.11n HT40 CH1 2422MHz



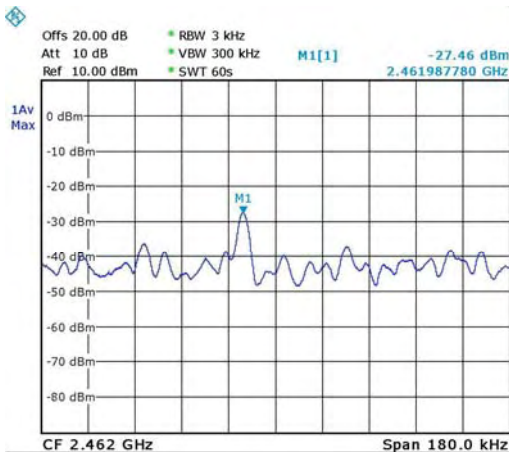
802.11n HT20 CH6 2437MHz



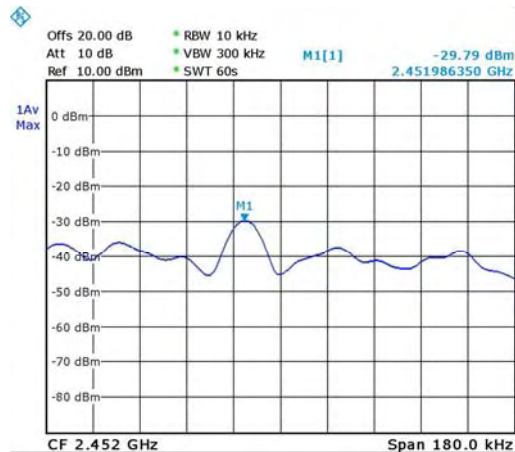
802.11n HT40 CH4 2437MHz



802.11n HT20 CH11 2462MHz



802.11n HT40 CH7 2452MHz



## 6.5. Output Power Test

### 6.5.1. 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.

### 6.5.2. Test result

**Pass**

Test Channel	Read (dBm)	Factor (dB)	Result (dBm)	Limit
802.11b CH1	11.87	6	17.87	30.00
802.11b CH6	11.94	6	17.94	30.00
802.11b CH11	11.59	6	17.59	30.00
802.11g CH1	11.29	6	17.29	30.00
802.11g CH6	11.42	6	17.42	30.00
802.11g CH11	11.31	6	17.31	30.00
802.11n HT20 CH1	10.09	6	16.09	30.00
802.11 n HT20 CH6	10.12	6	16.12	30.00
802.11n HT20 CH11	9.97	6	15.97	30.00
802.11 n HT40 CH1	9.88	6	15.88	30.00
802.11 n HT40 CH4	9.84	6	15.84	30.00
802.11 n HT40 CH7	9.49	6	15.49	30.00

**Note:**Result=Read+Factor

Factor= RF attenuator loss(3dB)+Cable loss(3dB)

When 802.11b's data rate was 11MHz;802.11g's data rate was 54MHz;the EUT have Maximum output and all the test was performed in this data rate set.

## 6.6. Band Edge

### 6.6.1. 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 Section 15.209 , whichever is the lesser attenuation.

### 6.6.2. Test procedure

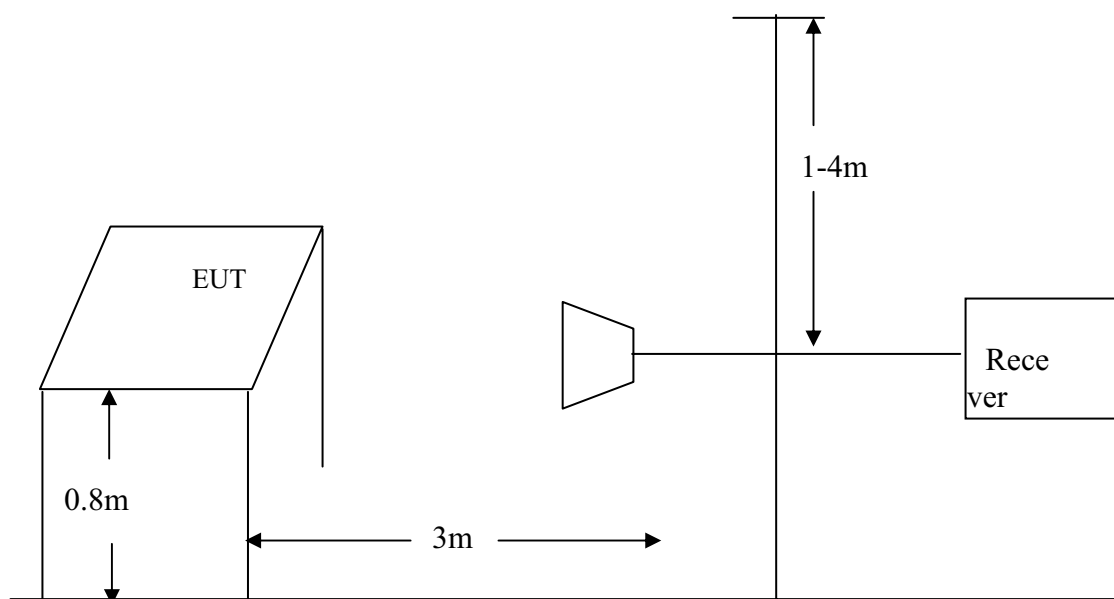
The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 1G Hz to 18GHz,The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

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

When 802.11b's data rate was 11MHz;802.11g's data rate was 54MHz;the EUT have Maximum output and all the test was performed in this data rate set.

The EUT was tested in Chamber Site.

### 6.6.3. Test Setup Diagram



### 6.6.4. Test result

**PASS.**

The test plots as following:



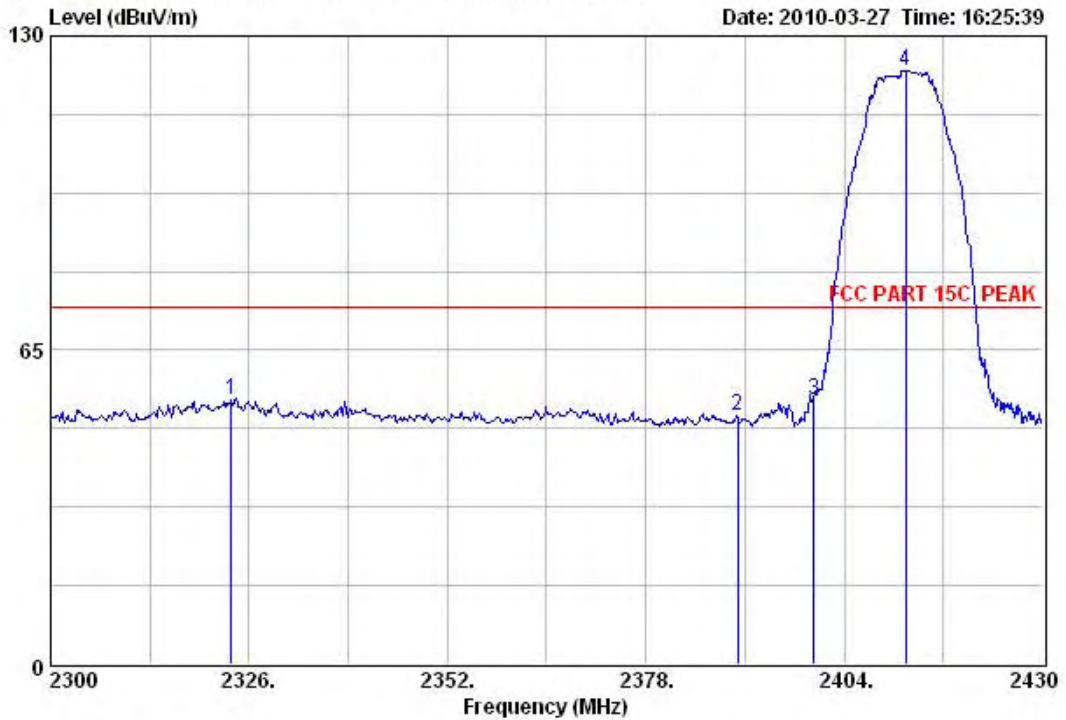
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 272

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:25:39



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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	Emission				Ant. Cable		Remark
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor Loss (dB)	
1	2323.66	54.53	74.00	19.47	20.88	31.43 2.22	Peak
2	2390.00	51.49	74.00	22.51	17.79	31.48 2.22	Peak
3	2400.00	54.63	74.00	19.37	20.90	31.50 2.23	Peak
4	2412.06	122.70	74.00	-48.70	88.97	31.50 2.23	Peak



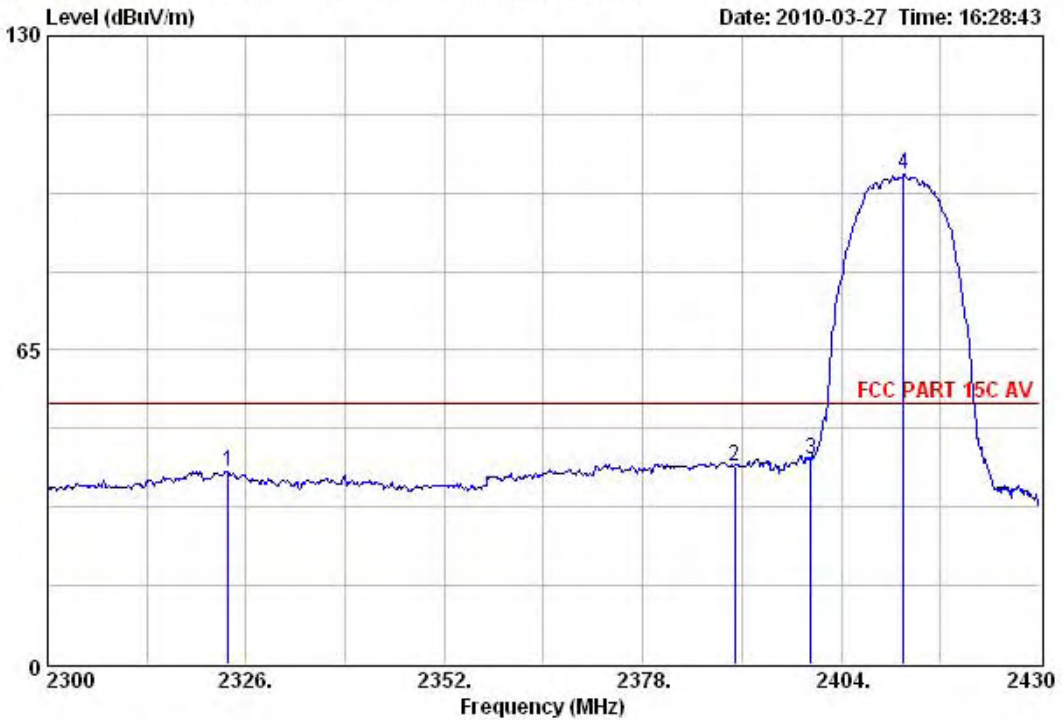
# NS Technology

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Fax: +86-769-85991080

Data: 273

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:28:43



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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	39.99	54.00	14.01	6.34	31.43	2.22	Average	
2 2390.00	40.89	54.00	13.11	7.19	31.48	2.22	Average	
3 2400.00	42.42	54.00	11.58	8.69	31.50	2.23	Average	
4 2412.19	101.42	54.00	-47.42	67.69	31.50	2.23	Average	



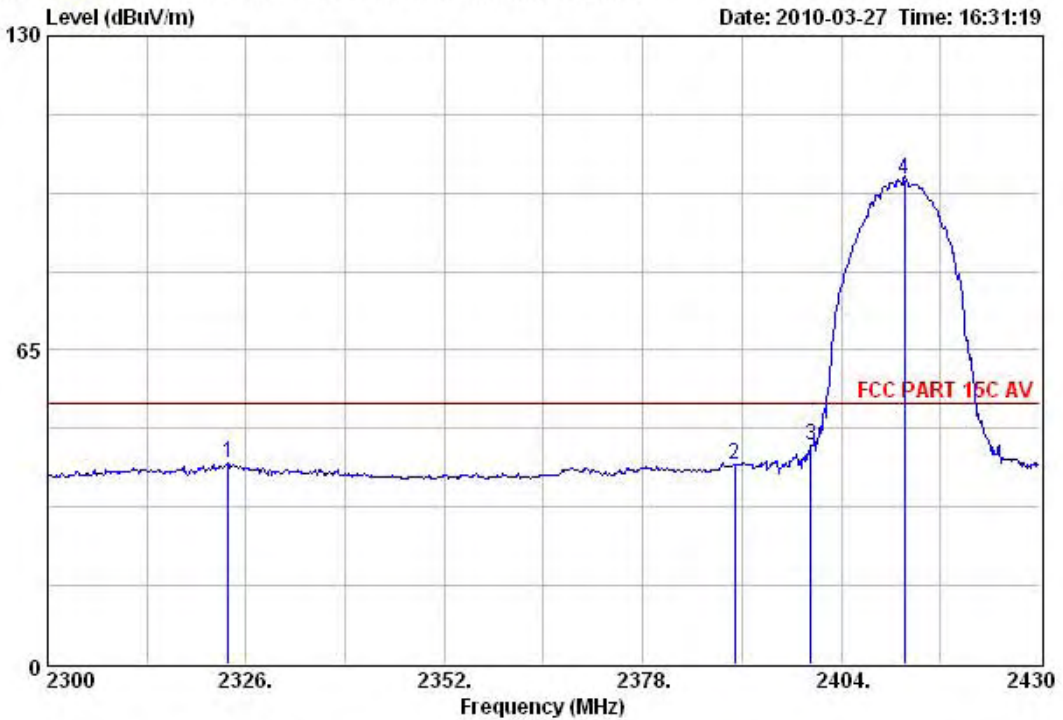
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 274

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:31:19



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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	41.63	54.00	12.37	7.98	31.43	2.22	Average	
2 2390.00	41.45	54.00	12.55	7.75	31.48	2.22	Average	
3 2400.00	45.17	54.00	8.83	11.44	31.50	2.23	Average	
4 2412.32	100.16	54.00	-46.16	66.43	31.50	2.23	Average	



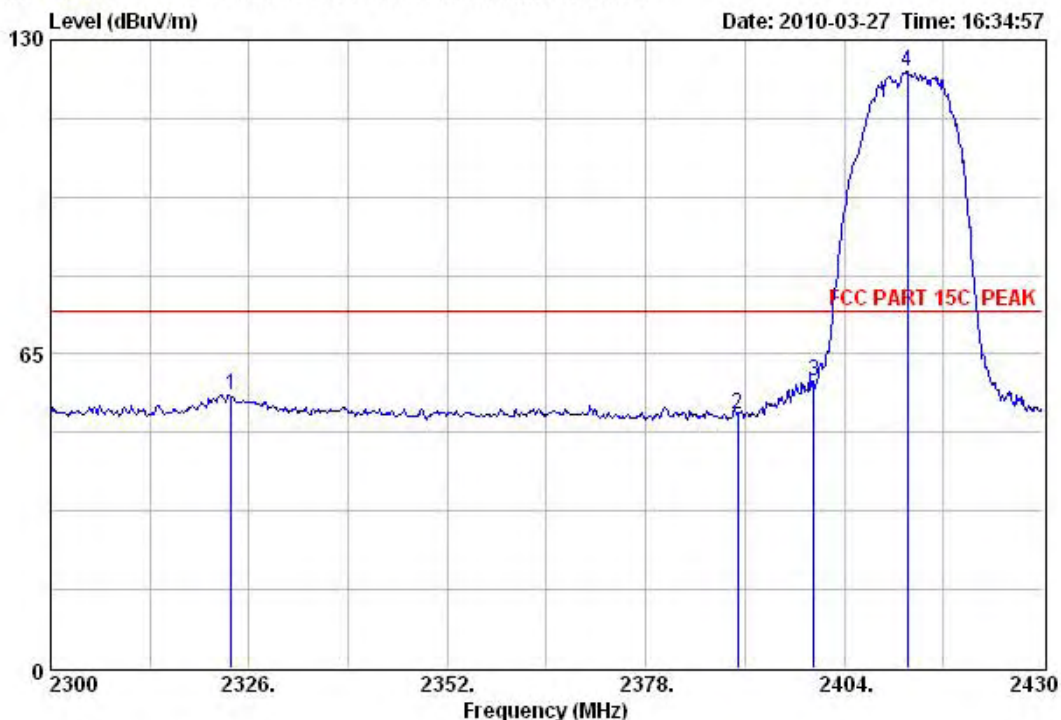
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 275

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:34:57



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2323.66	56.62	74.00	17.38	22.97	31.43	2.22	Peak
2 2390.00	52.38	74.00	21.62	18.68	31.48	2.22	Peak
3 2400.00	59.42	74.00	14.58	25.69	31.50	2.23	Peak
4 2412.32	123.34	74.00	-49.34	89.61	31.50	2.23	Peak



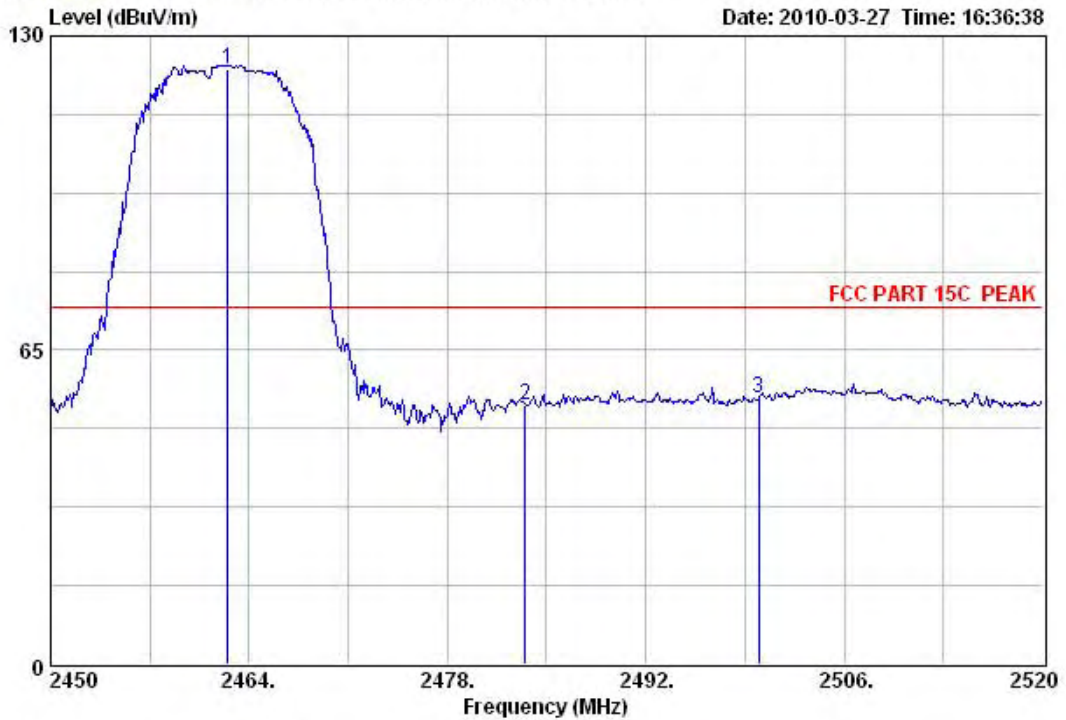
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 276

File: D:\Radiation data\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:36:38



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Test Site      : 10m Chamber
Limit         : FCC PART 15C PEAK
Dis. / Ant.   : 3m 3117           Ant. Pol.: HORIZONTAL
EUT          : Wireless Router
M/N          : IP0494
Power        : DC 5V 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 (dB/m)	Loss (dB)	
1 2462.53	122.95	74.00	-48.95	89.16	31.56	2.23	Peak	
2 2483.50	53.49	74.00	20.51	19.68	31.58	2.23	Peak	
3 2500.00	54.92	74.00	19.08	21.09	31.60	2.23	Peak	



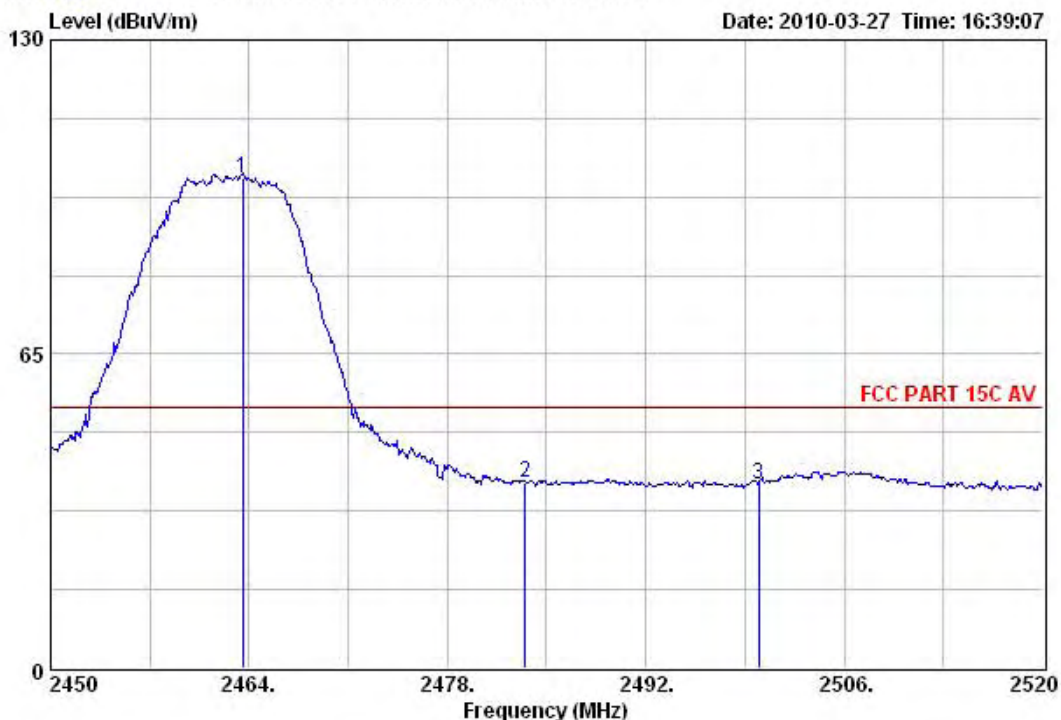
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
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Data: 277

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:39:07



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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 (dB/m)	Loss (dB)	
1 2463.58	101.34	54.00	-47.34	67.55	31.56	2.23	Average	
2 2483.50	38.36	54.00	15.64	4.55	31.58	2.23	Average	
3 2500.00	37.91	54.00	16.09	4.08	31.60	2.23	Average	



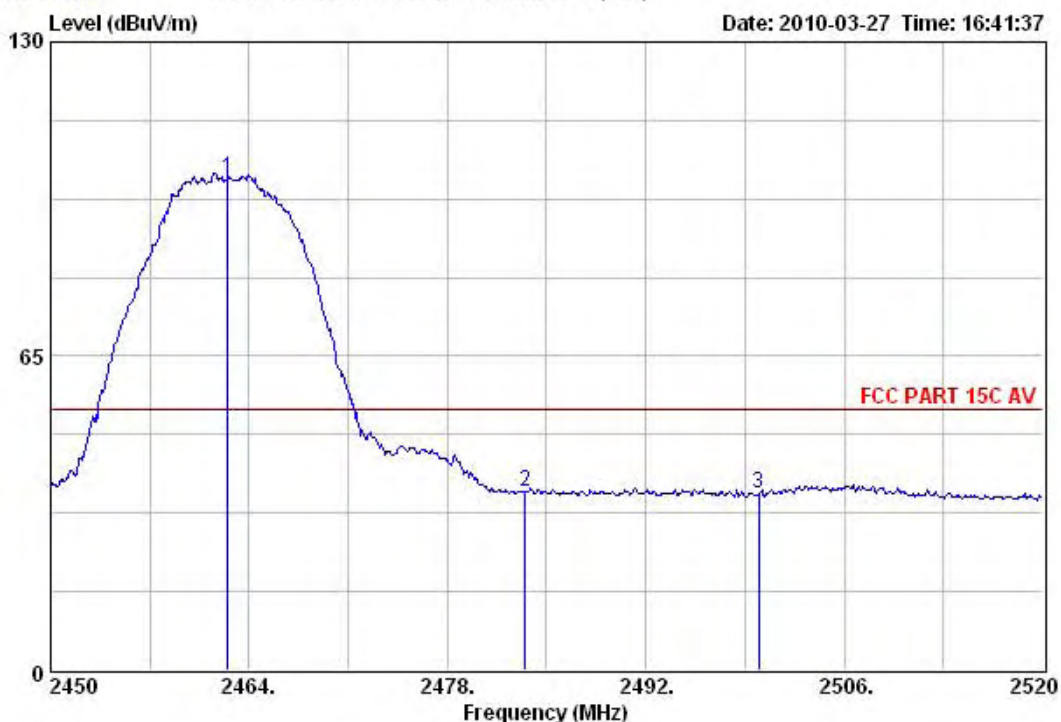
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 278

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:41:37



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2462.53	101.92	54.00	-47.92	68.13	31.56	2.23	Average	
2 2483.50	36.88	54.00	17.12	3.07	31.58	2.23	Average	
3 2500.00	36.48	54.00	17.52	2.65	31.60	2.23	Average	



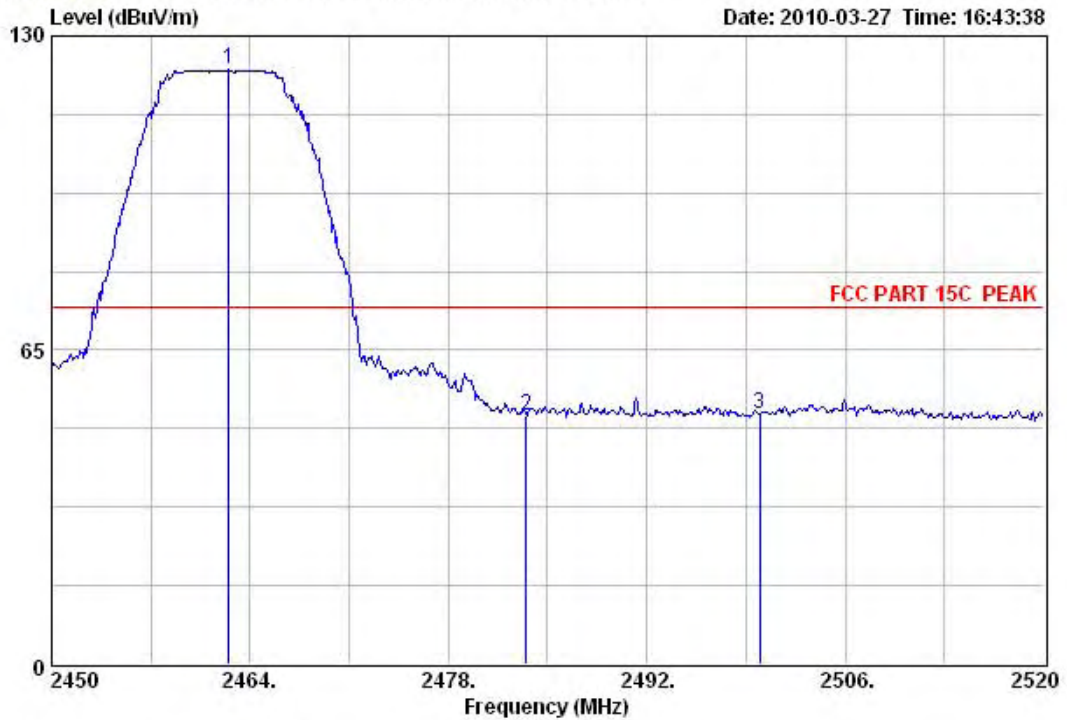
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 279

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:43:38



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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

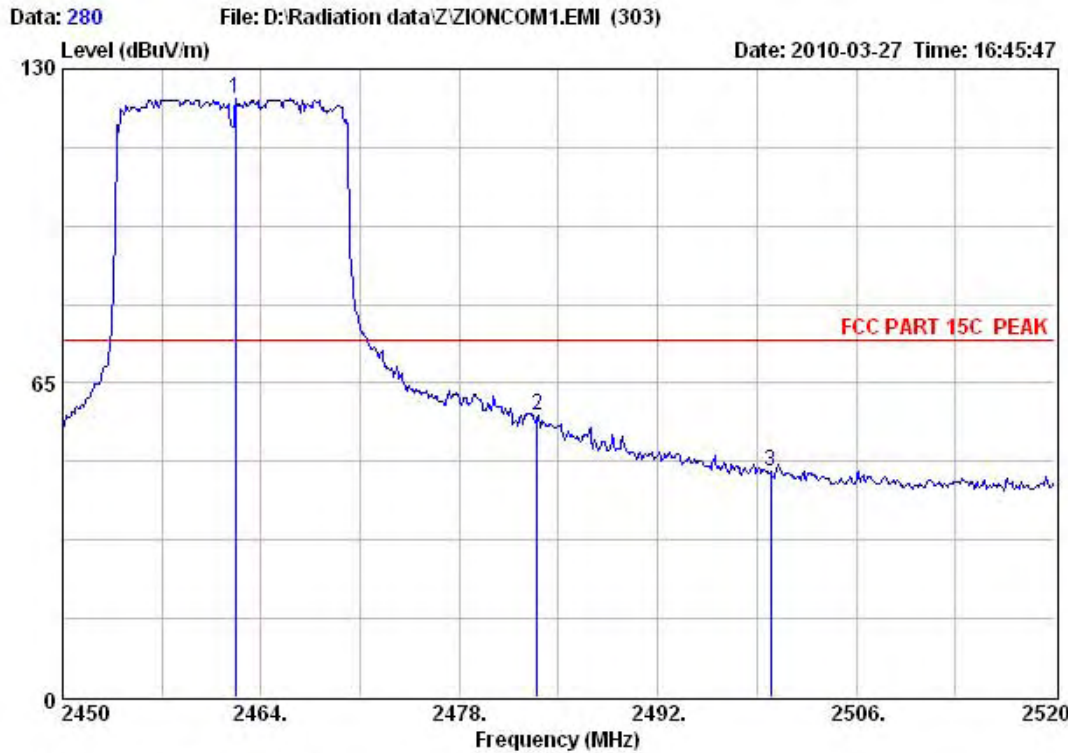
Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2462.53	123.01	74.00	-49.01	89.22	31.56	2.23	Peak	
2 2483.50	51.35	74.00	22.65	17.54	31.58	2.23	Peak	
3 2500.00	51.79	74.00	22.21	17.96	31.60	2.23	Peak	





# NS Technology

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```

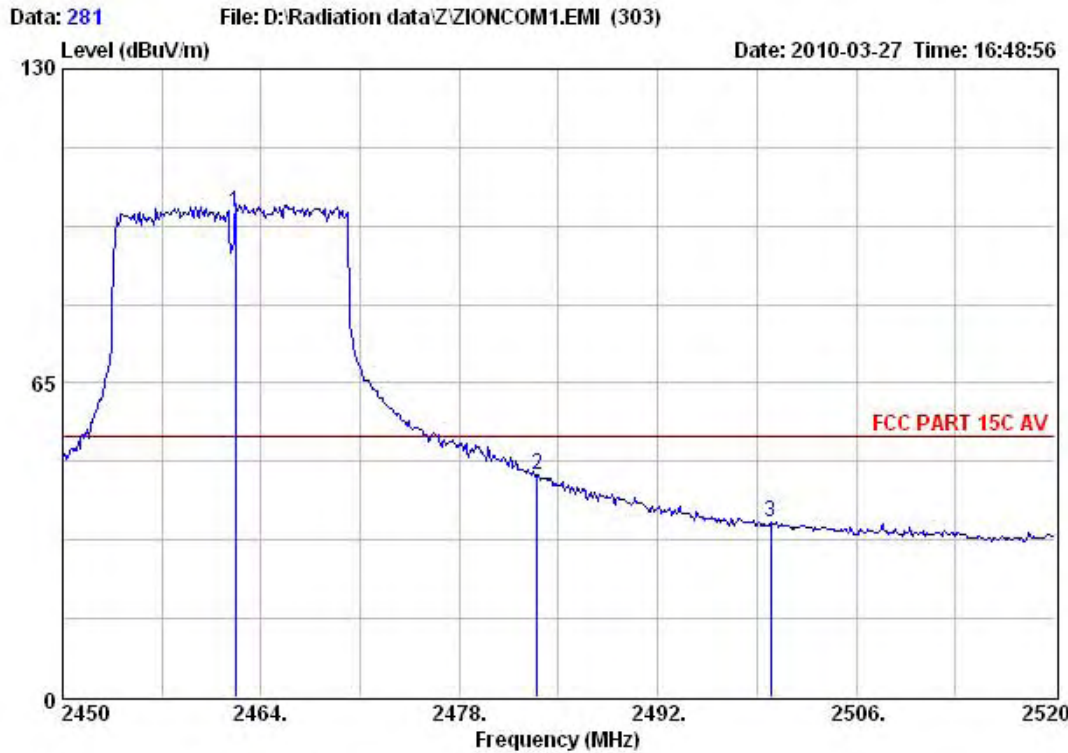
Test Site      : 10m Chamber
Limit         : FCC PART 15C PEAK
Dis. / Ant.   : 3m 3117           Ant. Pol.: VERTICAL
EUT          : Wireless Router
M/N          : IP0494
Power        : DC 5V from adapter input AC 120V/60Hz
Test Engineer : Jade
Comment      : Temp.:25.2'C Humi.:56% Press:101.51kPa
Test Mode    : TX Mode 802.11g CH11 2462MHz
    
```

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2462.18	123.78	74.00	-49.78	89.99	31.56	2.23	Peak	
2 2483.50	58.28	74.00	15.72	24.47	31.58	2.23	Peak	
3 2500.00	46.71	74.00	27.29	12.88	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 : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2462.18	100.28	54.00	-46.28	66.49	31.56	2.23	Average	
2 2483.50	46.01	54.00	7.99	12.20	31.58	2.23	Average	
3 2500.00	36.25	54.00	17.75	2.42	31.60	2.23	Average	



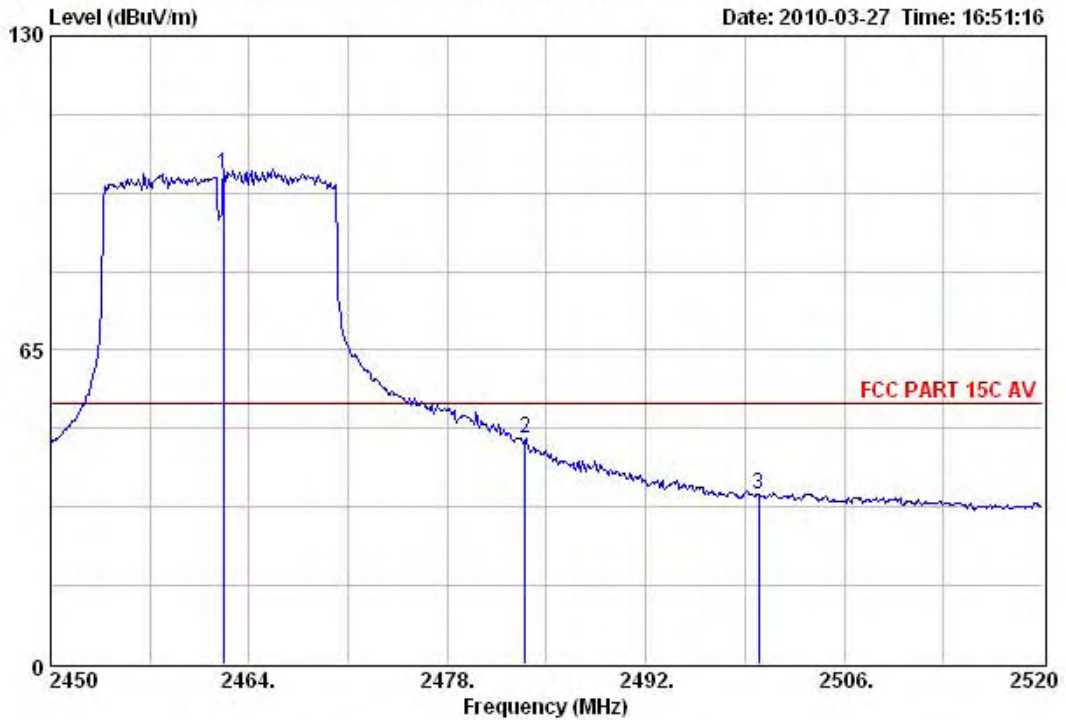
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 282

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:51:16



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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 (dB/m)	Loss (dB)	
1 2462.18	101.32	54.00	-47.32	67.53	31.56	2.23	Average
2 2483.50	46.58	54.00	7.42	12.77	31.58	2.23	Average
3 2500.00	35.07	54.00	18.93	1.24	31.60	2.23	Average



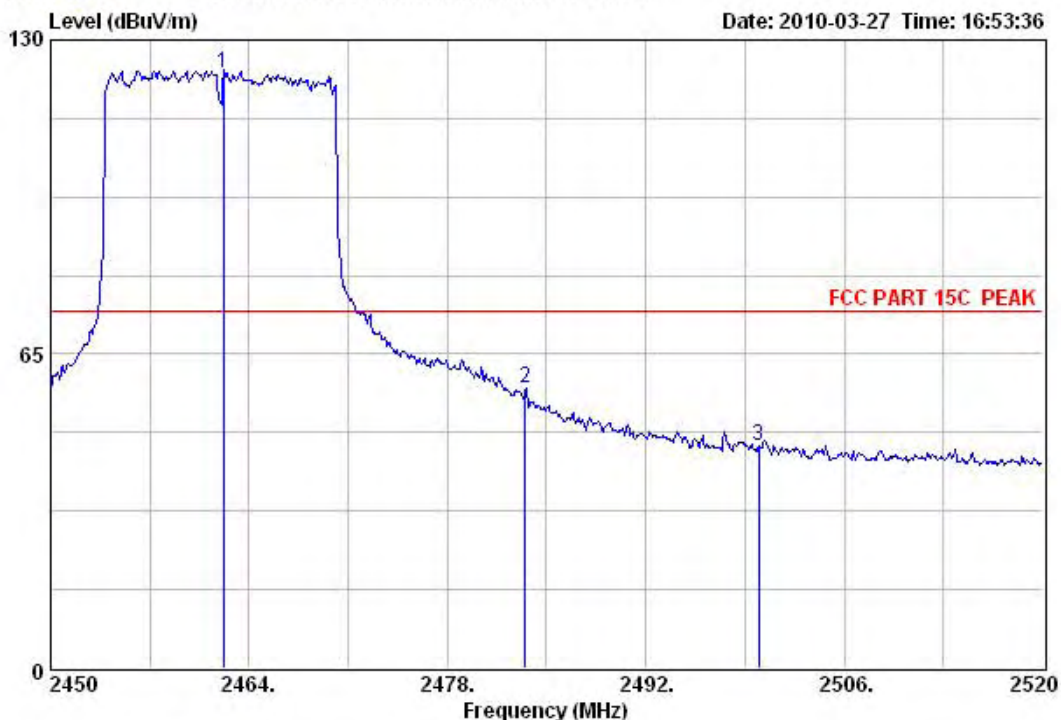
# NS Technology

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Dongguan, Guangdong, China  
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Fax: +86-769-85991080

Data: 283

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:53:36



```

Test Site      : 10m Chamber
Limit         : FCC PART 15C PEAK
Dis. / Ant.   : 3m 3117           Ant. Pol.: HORIZONTAL
EUT          : Wireless Router
M/N          : IP0494
Power        : DC 5V 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. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2462.18	122.98	74.00	-48.98	89.19	31.56	2.23	Peak	
2 2483.50	57.76	74.00	16.24	23.95	31.58	2.23	Peak	
3 2500.00	45.83	74.00	28.17	12.00	31.60	2.23	Peak	



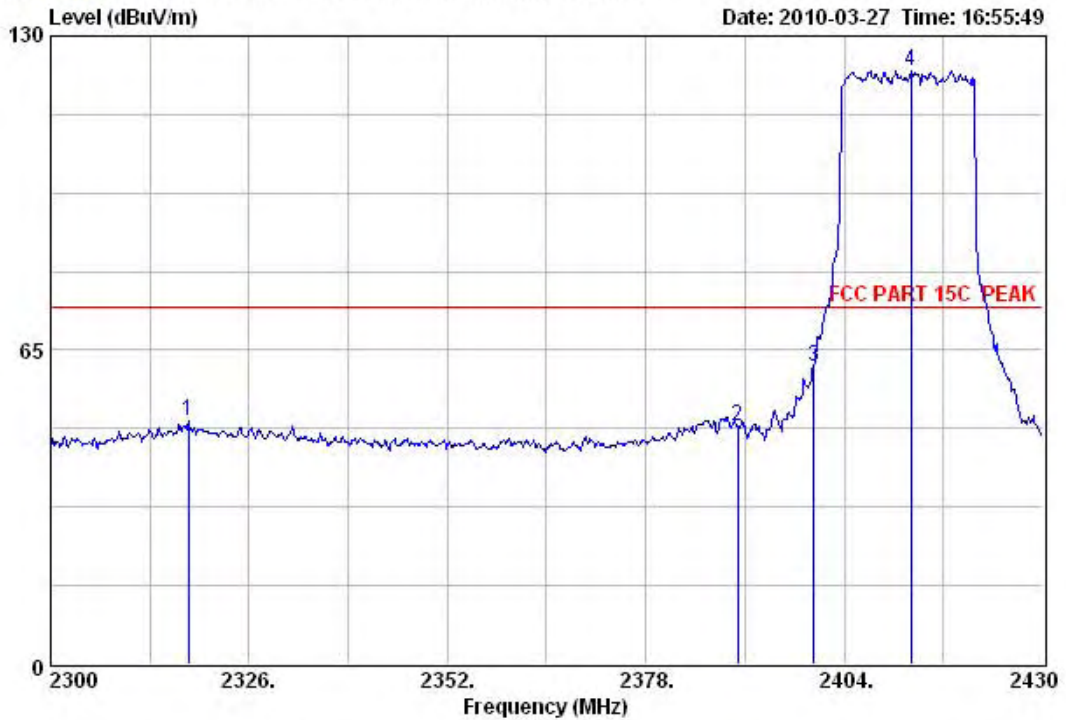
# NS Technology

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Tel: +86-769-85935656  
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Data: 284

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:55:49



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2318.07	50.38	74.00	23.62	16.75	31.41	2.22	Peak
2 2390.00	49.08	74.00	24.92	15.38	31.48	2.22	Peak
3 2400.00	61.72	74.00	12.28	27.99	31.50	2.23	Peak
4 2412.71	122.85	74.00	-48.85	89.12	31.50	2.23	Peak



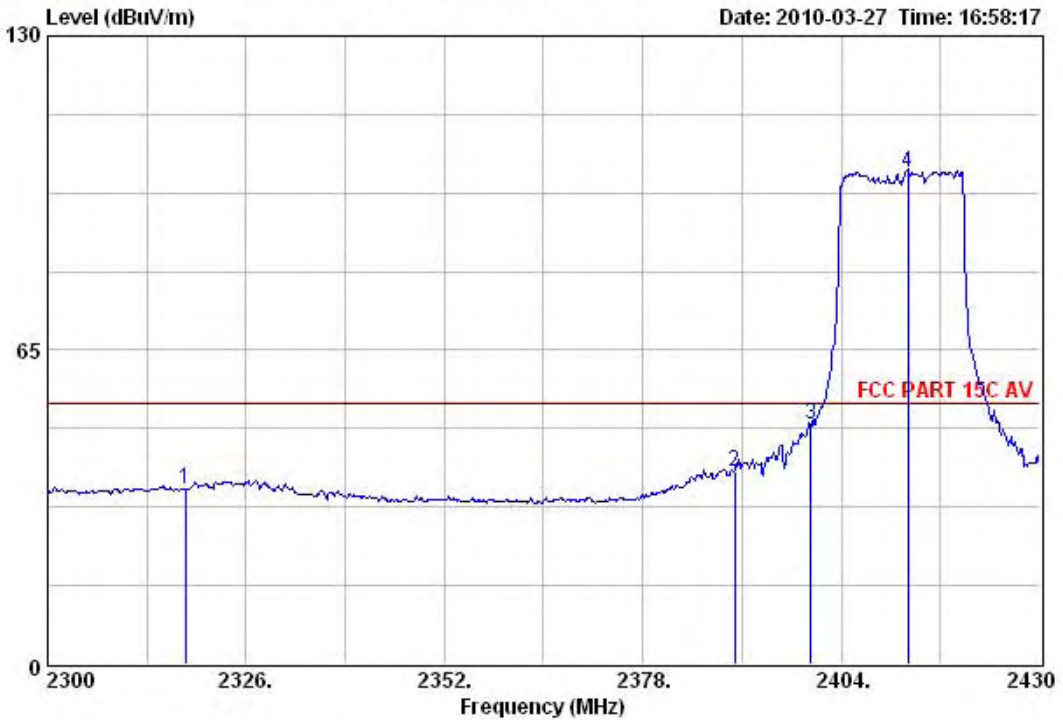
# NS Technology

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Data: 285

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 16:58:17



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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 (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2318.07	36.39	54.00	17.61	2.76	31.41	2.22	Average	
2 2390.00	39.81	54.00	14.19	6.11	31.48	2.22	Average	
3 2400.00	49.62	54.00	4.38	15.89	31.50	2.23	Average	
4 2412.71	101.59	54.00	-47.59	67.86	31.50	2.23	Average	



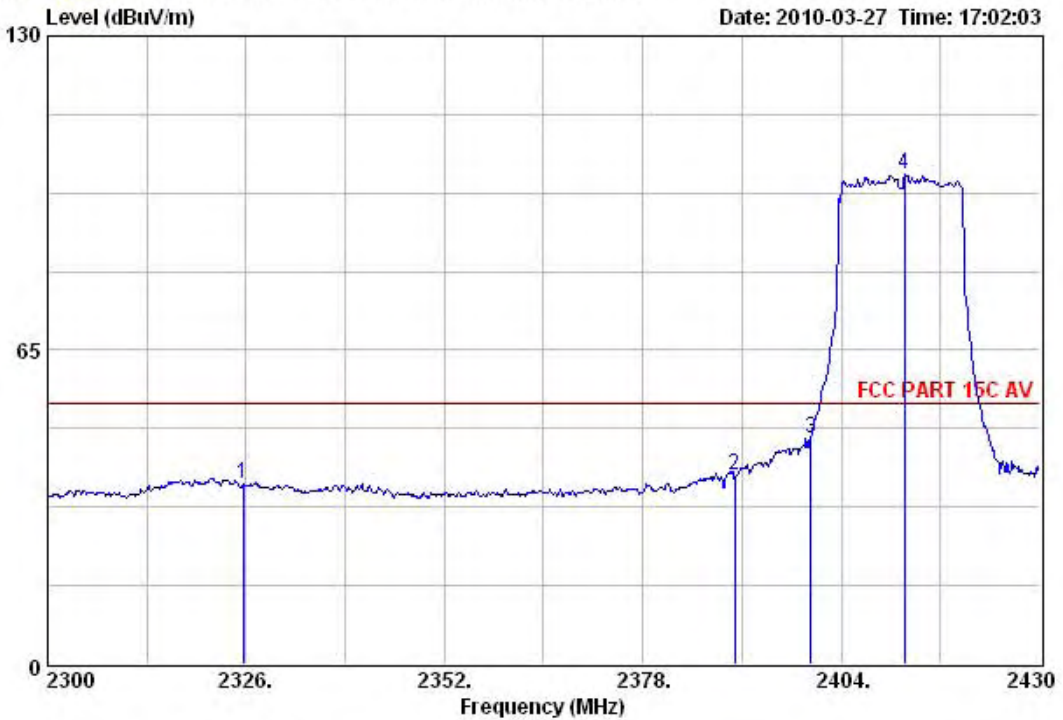
# NS Technology

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Data: 286

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:02:03



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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 (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2325.61	37.25	54.00	16.75	3.60	31.43	2.22	Average	
2 2390.00	39.21	54.00	14.79	5.51	31.48	2.22	Average	
3 2400.00	46.83	54.00	7.17	13.10	31.50	2.23	Average	
4 2412.32	101.36	54.00	-47.36	67.63	31.50	2.23	Average	



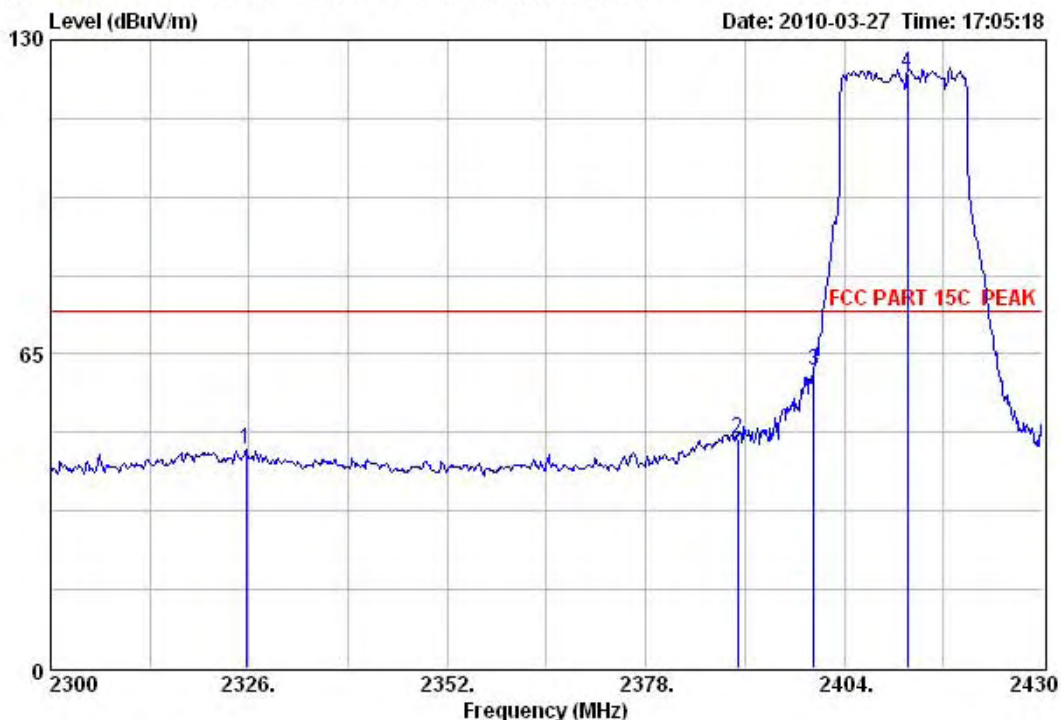
# NS Technology

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Data: 287

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:05:18



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V 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

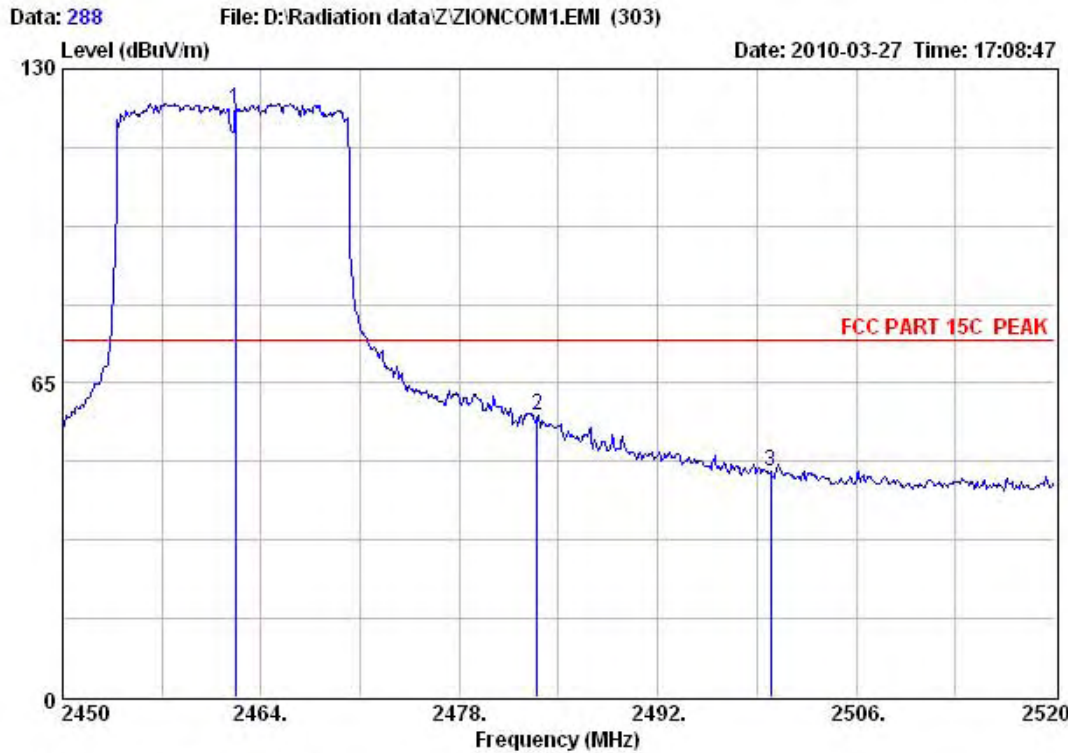
Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2325.61	45.25	74.00	28.75	11.60	31.43	2.22	Peak	
2 2390.00	47.54	74.00	26.46	13.84	31.48	2.22	Peak	
3 2400.00	61.48	74.00	12.52	27.75	31.50	2.23	Peak	
4 2412.32	123.06	74.00	-49.06	89.33	31.50	2.23	Peak	





# NS Technology

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Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH11 2462MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2462.18	121.78	74.00	-47.78	87.99	31.56	2.23	Peak	
2 2483.50	58.28	74.00	15.72	24.47	31.58	2.23	Peak	
3 2500.00	46.71	74.00	27.29	12.88	31.60	2.23	Peak	



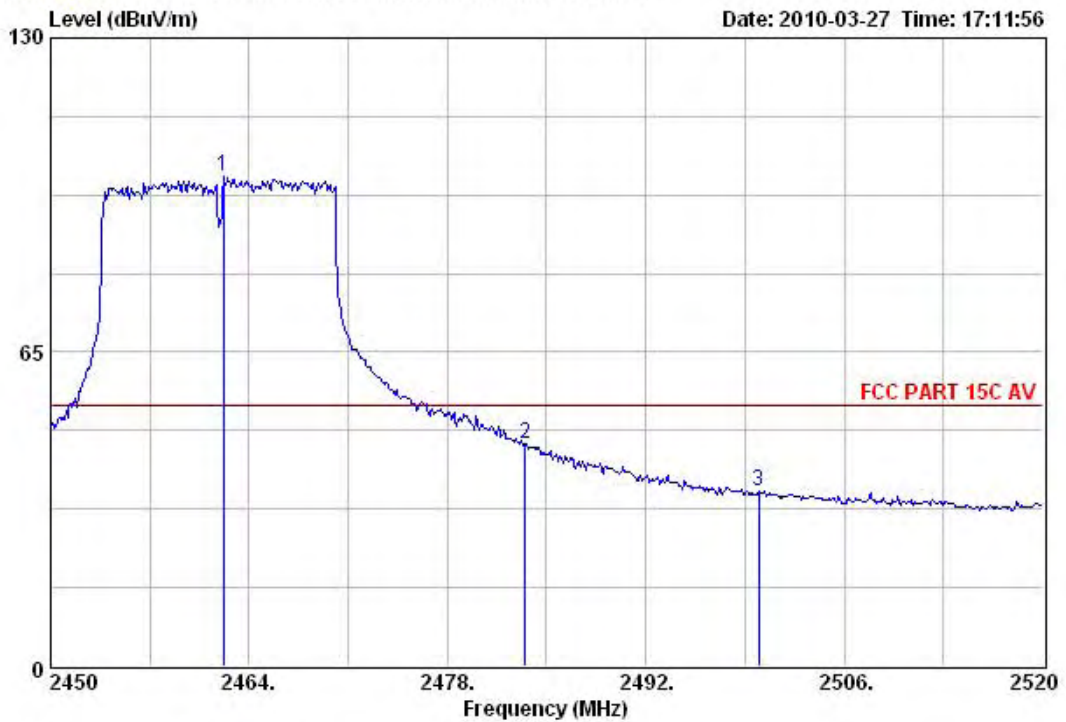
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 289

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:11:56



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH11 2462MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2462.18	101.28	54.00	-47.28	67.49	31.56	2.23	Average	
2 2483.50	46.01	54.00	7.99	12.20	31.58	2.23	Average	
3 2500.00	36.25	54.00	17.75	2.42	31.60	2.23	Average	



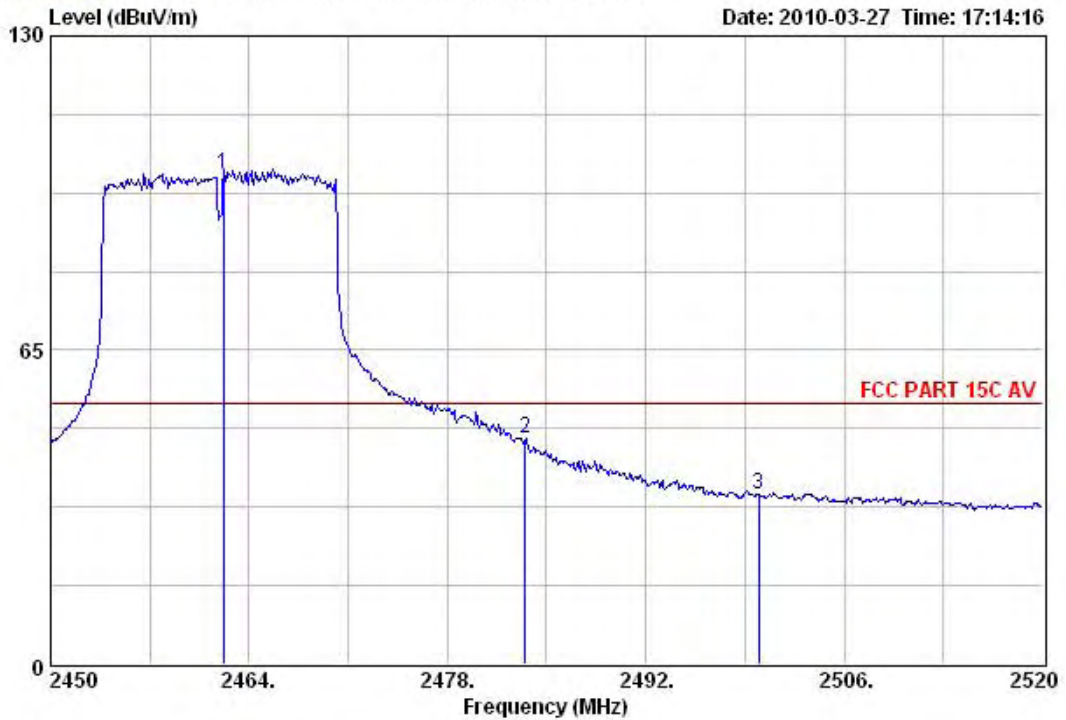
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 290

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:14:16



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH11 2462MHz

Freq. (MHz)	Emission		Margin (dB)	Reading (dBUV)	Ant. Cable		Remark
	Level (dBUV/m)	Limits (dBUV/m)			Factor (dB/m)	Loss (dB)	
1 2462.18	101.32	54.00	-47.32	67.53	31.56	2.23	Average
2 2483.50	46.58	54.00	7.42	12.77	31.58	2.23	Average
3 2500.00	35.07	54.00	18.93	1.24	31.60	2.23	Average



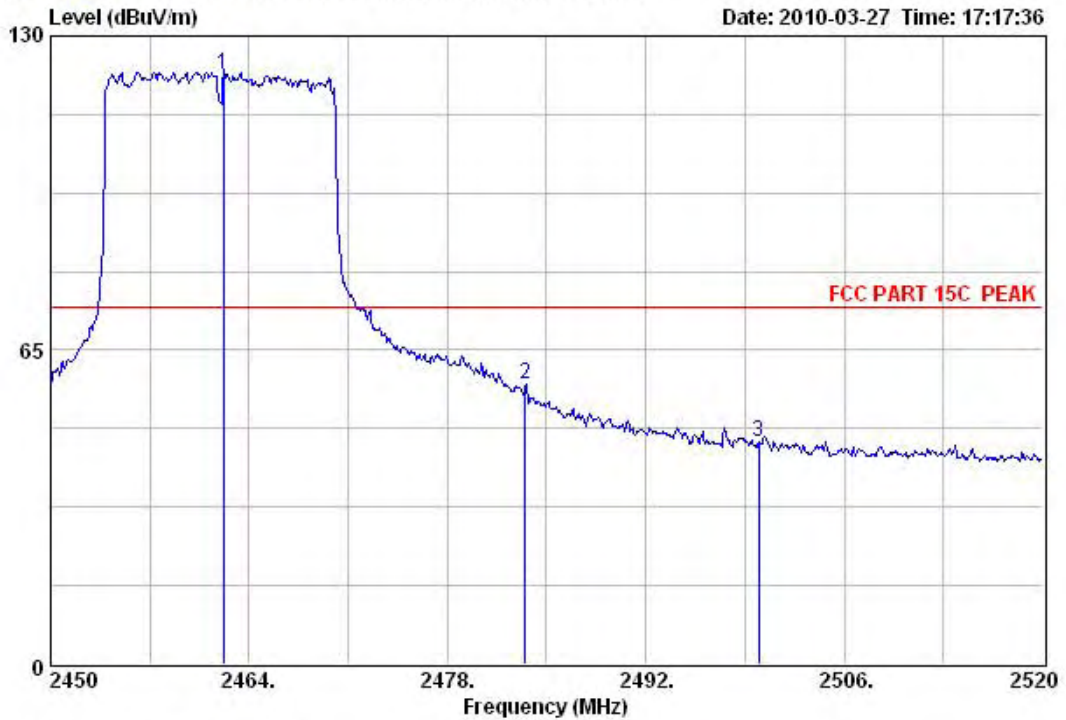
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 291

File: D:\Radiation data\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:17:36



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH11 2462MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2462.18	121.98	74.00	-47.98	88.19	31.56	2.23	Peak	
2 2483.50	57.76	74.00	16.24	23.95	31.58	2.23	Peak	
3 2500.00	45.83	74.00	28.17	12.00	31.60	2.23	Peak	



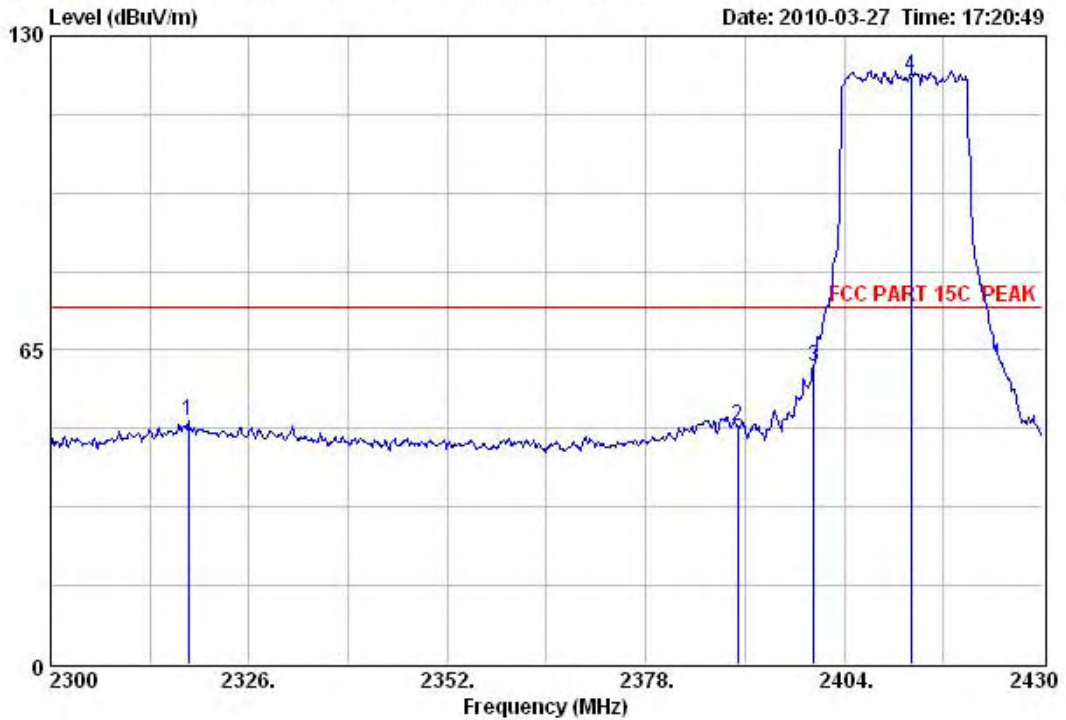
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 292

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:20:49



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH1 2412MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2318.07	50.38	74.00	23.62	16.75	31.41	2.22	Peak	
2 2390.00	49.08	74.00	24.92	15.38	31.48	2.22	Peak	
3 2400.00	61.72	74.00	12.28	27.99	31.50	2.23	Peak	
4 2412.71	121.85	74.00	-47.85	88.12	31.50	2.23	Peak	



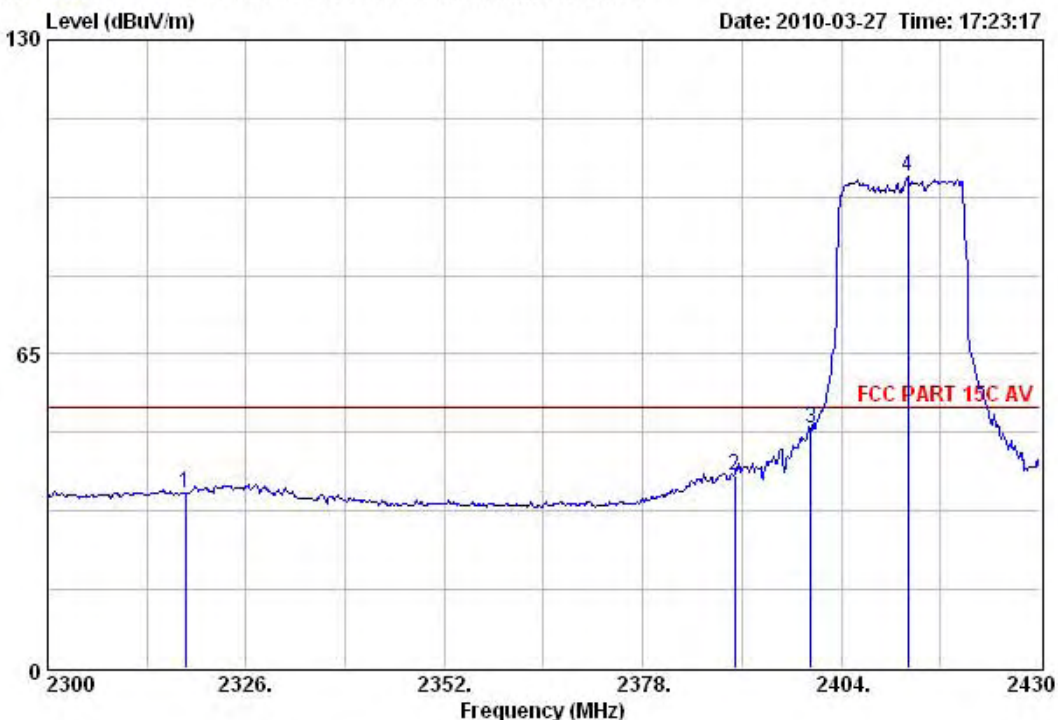
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 293

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:23:17



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH1 2412MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2318.07	36.39	54.00	17.61	2.76	31.41	2.22	Average	
2 2390.00	39.81	54.00	14.19	6.11	31.48	2.22	Average	
3 2400.00	49.62	54.00	4.38	15.89	31.50	2.23	Average	
4 2412.71	101.59	54.00	-47.59	67.86	31.50	2.23	Average	



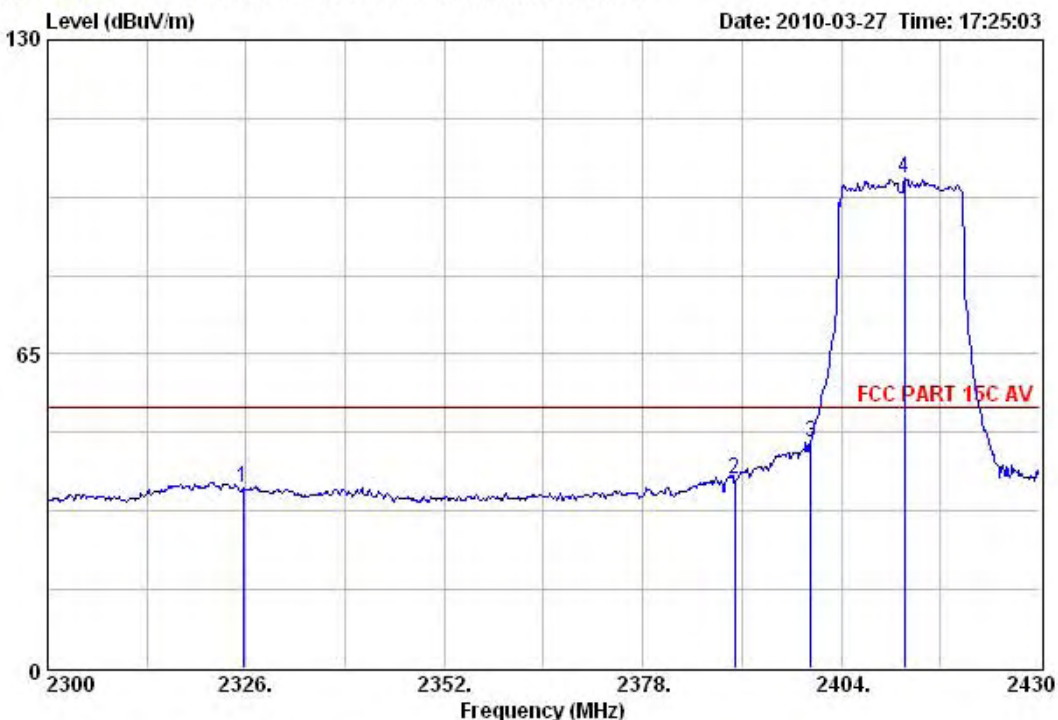
# NS Technology

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Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 294

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:25:03



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH1 2412MHz

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2325.61	37.25	54.00	16.75	3.60	31.43	2.22	Average
2 2390.00	39.21	54.00	14.79	5.51	31.48	2.22	Average
3 2400.00	46.83	54.00	7.17	13.10	31.50	2.23	Average
4 2412.32	101.36	54.00	-47.36	67.63	31.50	2.23	Average



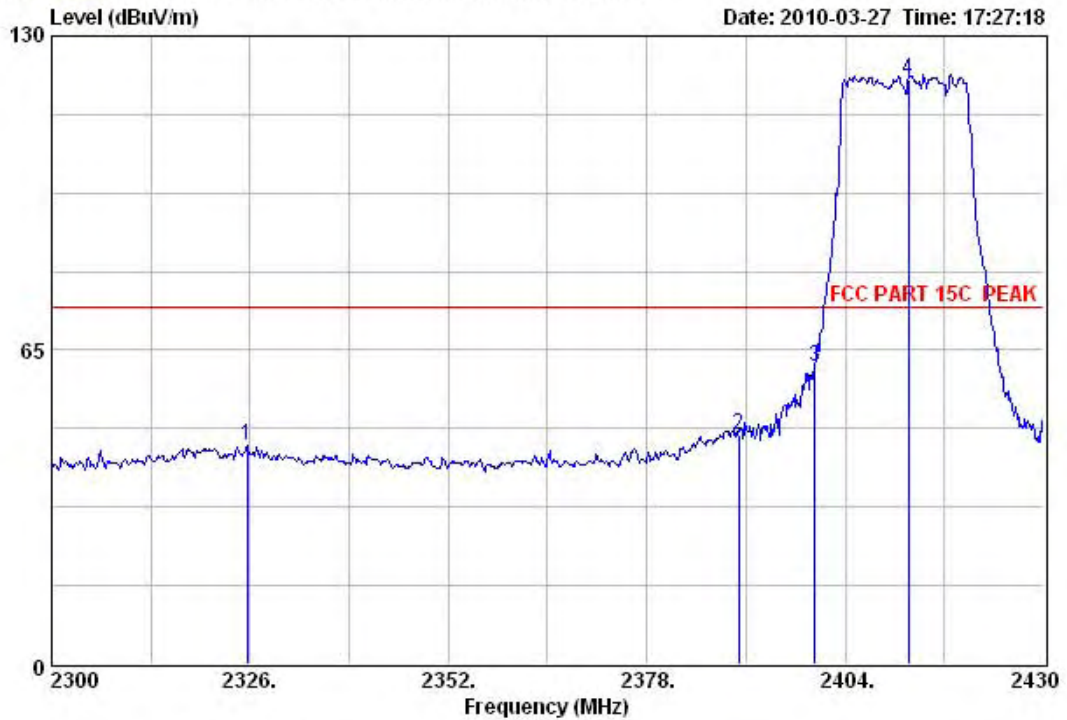
# NS Technology

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Data: 295

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:27:18



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa  
 Test Mode : TX Mode 802.11n HT20 CH1 2412MHz

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2325.61	45.25	74.00	28.75	11.60	31.43	2.22	Peak
2 2390.00	47.54	74.00	26.46	13.84	31.48	2.22	Peak
3 2400.00	61.48	74.00	12.52	27.75	31.50	2.23	Peak
4 2412.32	121.06	74.00	-47.06	87.33	31.50	2.23	Peak





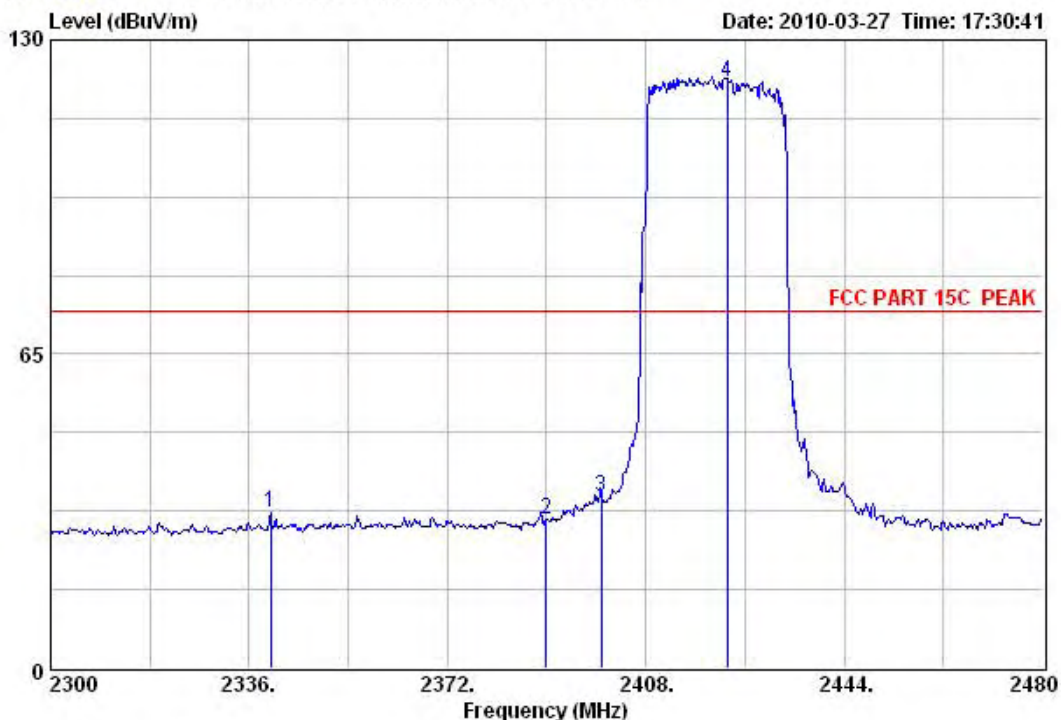
# NS Technology

Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 296

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:30:41



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH1 2422MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2339.96	32.36	74.00	41.64	-1.31	31.45	2.22	Peak	
2 2390.00	30.75	74.00	43.25	-2.95	31.48	2.22	Peak	
3 2400.00	35.60	74.00	38.40	1.87	31.50	2.23	Peak	
4 2422.76	121.20	74.00	-47.20	87.45	31.52	2.23	Peak	



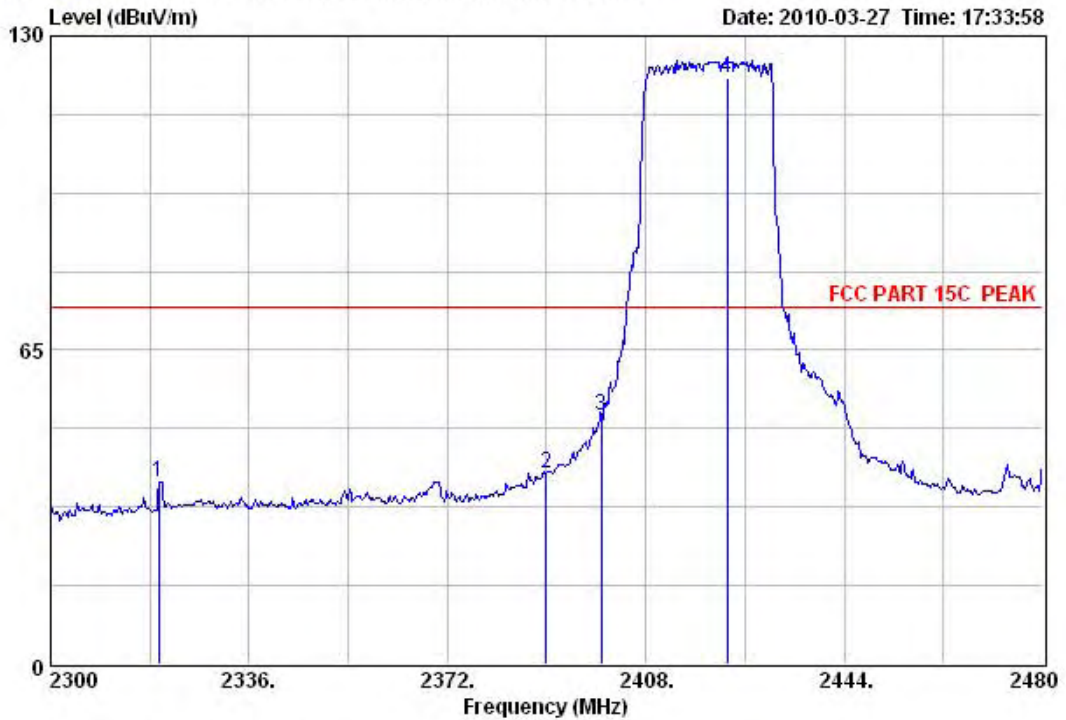
# NS Technology

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Fax: +86-769-85991080

Data: 297

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:33:58



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH1 2422MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2319.62	37.81	74.00	36.19	4.18	31.41	2.22	Peak	
2 2390.00	39.62	74.00	34.38	5.92	31.48	2.22	Peak	
3 2400.00	51.28	74.00	22.72	17.55	31.50	2.23	Peak	
4 2422.76	121.44	74.00	-47.44	87.69	31.52	2.23	Peak	



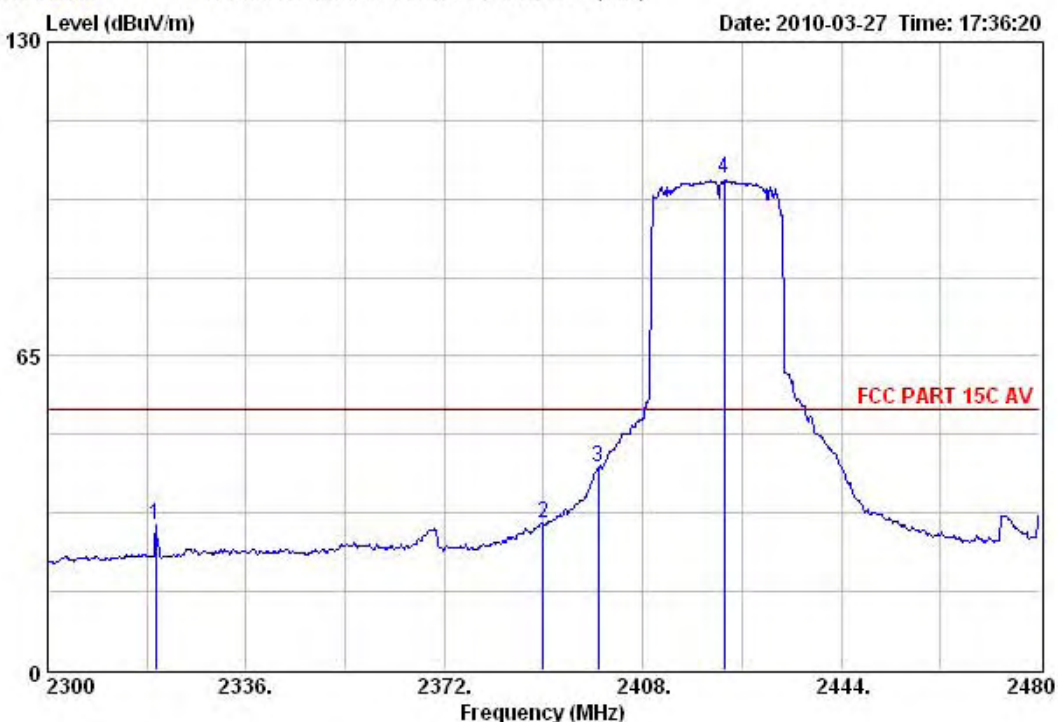
# NS Technology

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Data: 298

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:36:20



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH1 2422MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2319.62	30.11	54.00	23.89	-3.52	31.41	2.22	Average	
2 2390.00	30.31	54.00	23.69	-3.39	31.48	2.22	Average	
3 2400.00	42.17	54.00	11.83	8.44	31.50	2.23	Average	
4 2422.76	101.73	54.00	-47.73	67.98	31.52	2.23	Average	



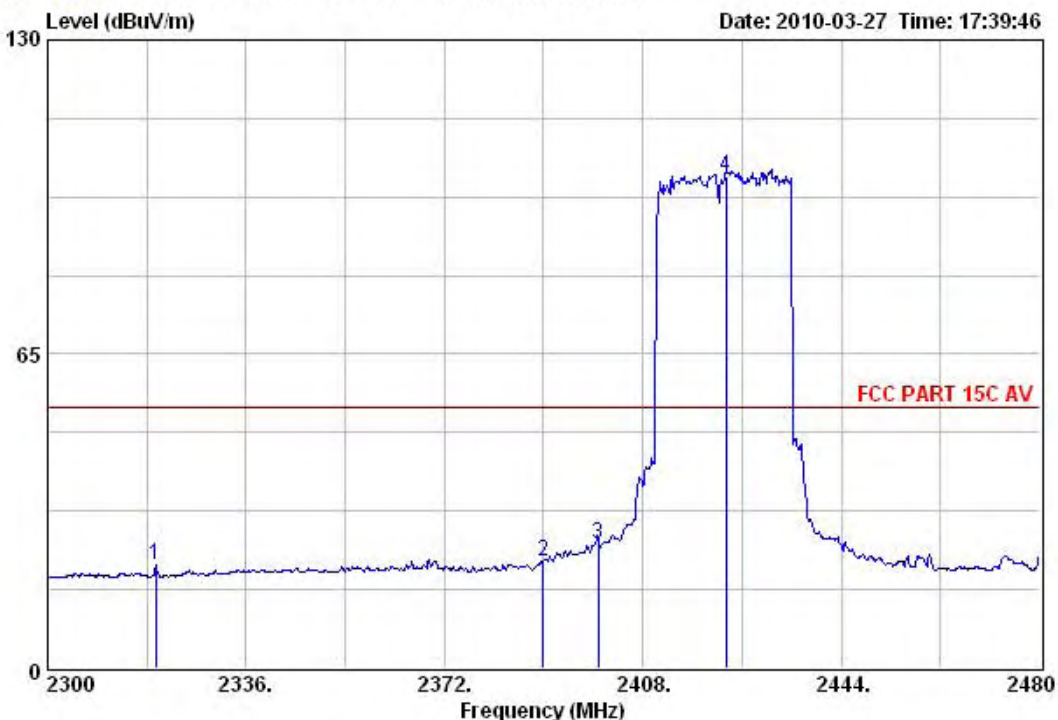
# NS Technology

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Data: 299

File: D:\Radiation data\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:39:46



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH1 2422MHz

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2319.62	21.37	54.00	32.63	-12.26	31.41	2.22	Average	
2 2390.00	22.23	54.00	31.77	-11.47	31.48	2.22	Average	
3 2400.00	25.76	54.00	28.24	-7.97	31.50	2.23	Average	
4 2423.12	101.79	54.00	-47.79	68.04	31.52	2.23	Average	



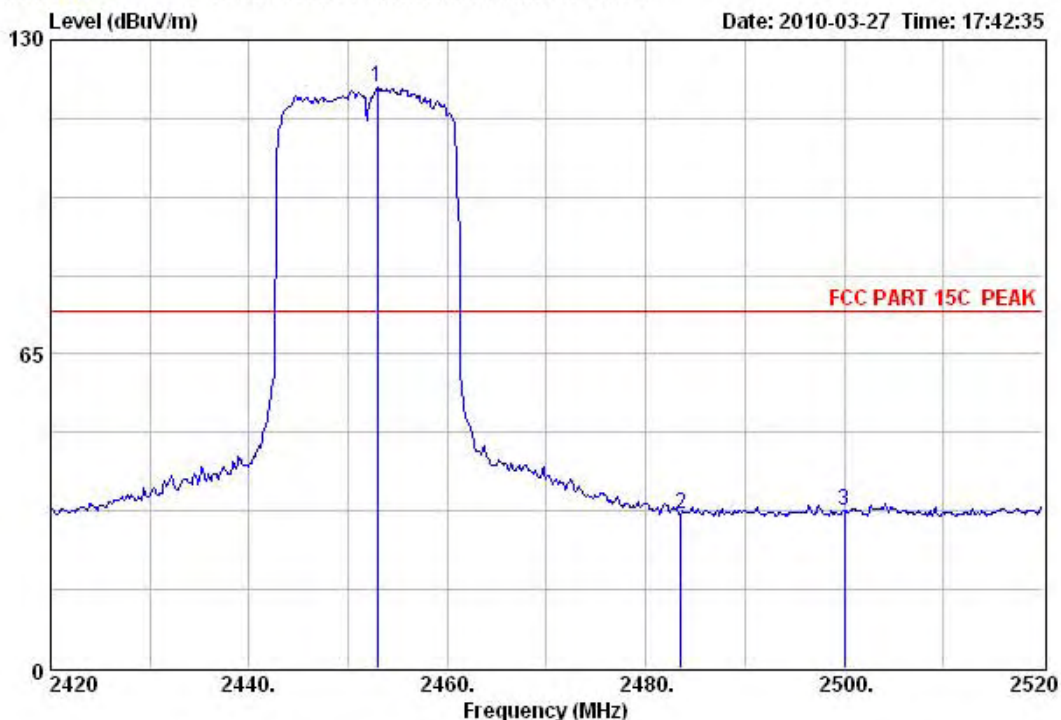
# NS Technology

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Data: 300

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:42:35



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH7 2452MHz

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2452.90	120.19	74.00	-46.19	86.42	31.54	2.23	Peak
2 2483.50	31.94	74.00	42.06	-1.87	31.58	2.23	Peak
3 2500.00	32.54	74.00	41.46	-1.29	31.60	2.23	Peak



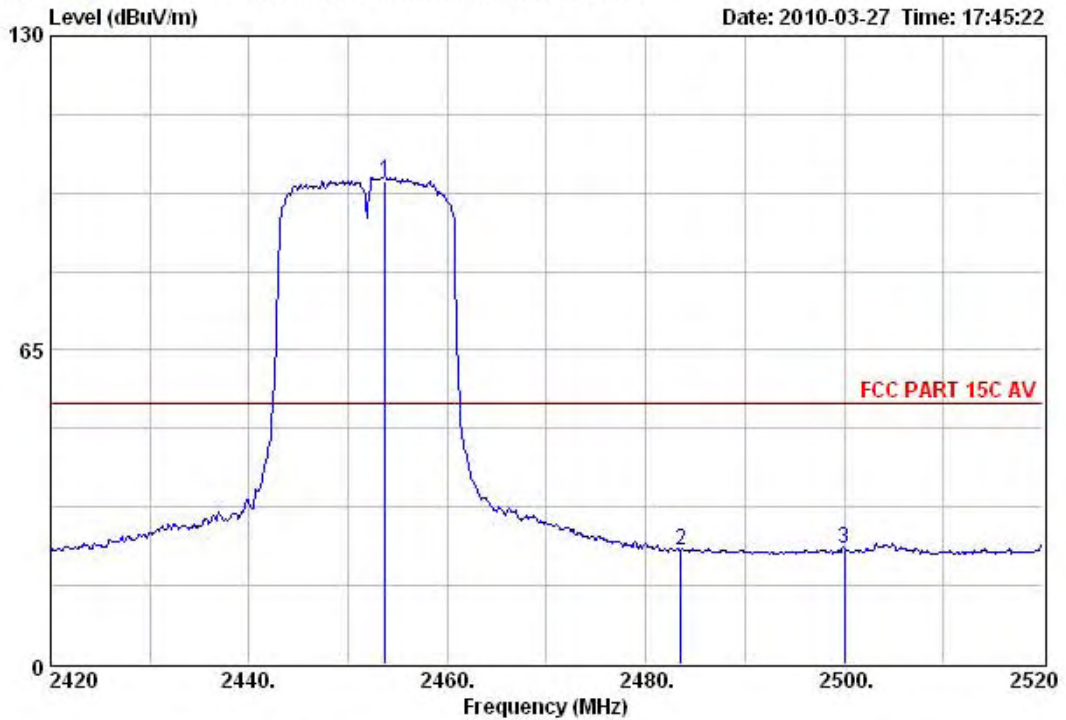
# NS Technology

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Fax: +86-769-85991080

Data: 301

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:45:22



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH7 2452MHz

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2453.70	100.02	54.00	-46.02	66.23	31.56	2.23	Average
2 2483.50	23.69	54.00	30.31	-10.12	31.58	2.23	Average
3 2500.00	24.00	54.00	30.00	-9.83	31.60	2.23	Average



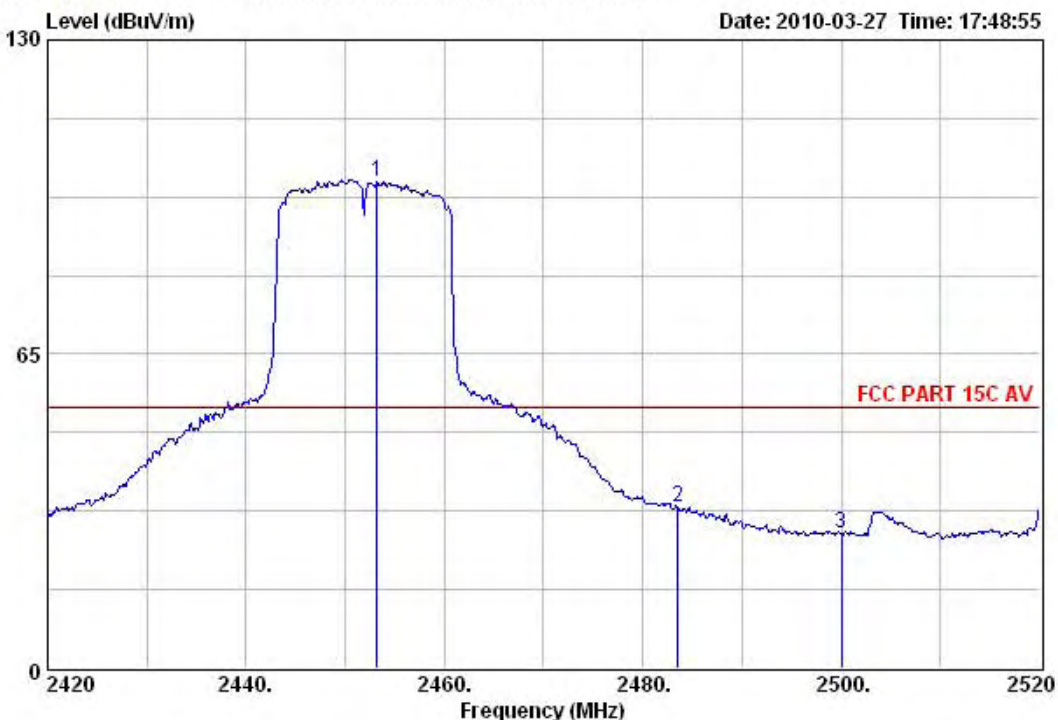
# NS Technology

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Data: 302

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:48:55



Test Site : 10m Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH7 2452MHz

Freq. (MHz)	Emission			Reading (dBUV)	Ant. Cable		Remark
	Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)		Factor (dB/m)	Loss (dB)	
1 2453.20	100.64	54.00	-46.64	66.87	31.54	2.23	Average
2 2483.50	33.21	54.00	20.79	-0.60	31.58	2.23	Average
3 2500.00	27.87	54.00	26.13	-5.96	31.60	2.23	Average



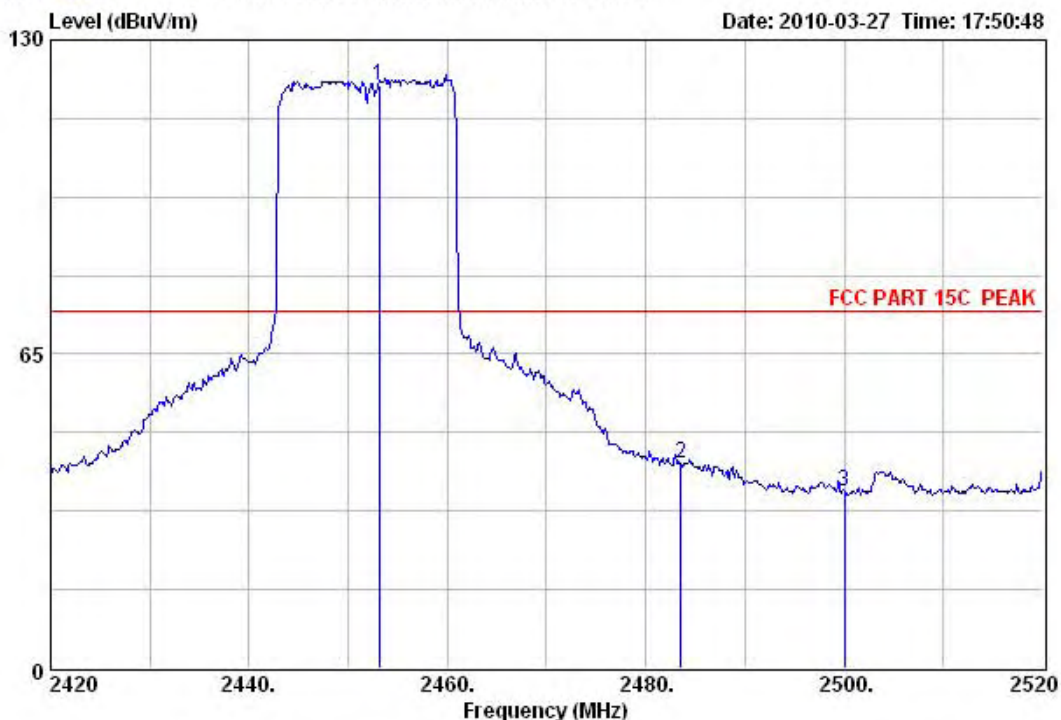
# NS Technology

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Fax: +86-769-85991080

Data: 303

File: D:\Radiation data\Z\ZIONCOM1.EMI (303)

Date: 2010-03-27 Time: 17:50:48



Test Site : 10m Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Router  
 M/N : IP0494  
 Power : DC 5V from adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp:25.2'C Humi:55% Press:101.45KPa  
 Test Mode : TX Mode 802.11n HT40 CH7 2452MHz

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		Factor (dB/m)	Loss (dB)	
1 2453.10	120.64	74.00	-46.64	86.87	31.54	2.23	Peak
2 2483.50	42.30	74.00	31.70	8.49	31.58	2.23	Peak
3 2500.00	36.58	74.00	37.42	2.75	31.60	2.23	Peak





## 6.7. ANTENNA REQUIREMENT

### 6.7.1. 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.

### 6.7.2. ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is antenna with SMA-B connector (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 5dBi.