

FCC COMPLIANCE REPORT

for

ZIONCOM TECHNOLOGY LIMITED

Wireless Router

Model Number: IP0494; RG300EX Lite

Prepared for : ZIONCOM TECHNOLOGY LIMITED

Address : Building A1~A2,lantian Science and Technology Park,Xinyu Road
Xinqiao Henggang Block Shajing Street,Baoan District,
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Report Number : NSE-F10044644

Date of Test : Mar. 10~Mar . 28, 2010

Date of Report : Mar. 30, 2010



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NS Technology Co., Ltd.

Applicant:	ZIONCOM TECHNOLOGY LIMITED		
Address:	Building A1~A2,lantian Science and Technology Park,Xinyu Road Xinqiao Henggang Block Shajing Street,Baoan District, Shenzhen City		
Manufacturer:	ZIONCOM TECHNOLOGY LIMITED		
Address:	Building A1~A2,lantian Science and Technology Park,Xinyu Road Xinqiao Henggang Block Shajing Street,Baoan District, Shenzhen City		
E.U.T:	Wireless Router		
Model Number:	IP0494; RG300EX Lite		
Trade Name:	-----		
Operating Frequency:	IEEE802.11b 2412~2462MHz; IEEE802.11g 2412~2462MHz IEEE802.11n HT20:2412~2462MHz;IEEE802.11n HT40:2422~2452MHz		
Date of Receipt:	Mar.4, 2010	Date of Test:	Mar. 10~Mar . 28, 2010
Test Specification:	FCC Part 15 Subpart C: Oct. 2009 ANSI C63.4:2003		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
Issue Date: Mar.30, 2010			
Tested by:	Reviewed by:	Approved by:	
Jade/ Engineer	Iceman Hu / Supervisor	Steven Lee / Manager	
Other Aspects:	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.	: Wireless Router
Model No.	: IP0494
Operating Frequency	: 2412~2462MHz
Number of Channels	: IEEE 802.11b/g,802.11n HT20:11 Channels IEEE 802.11n HT40:7 Channels
Type of Modulation	: DSSS for IEEE 802.11b, OFDM for IEEE 802.11g and IEEE 802.11n
Data Rate	: IEEE 802.11b:11/5.5/2/1M bps IEEE 802.11g:54/48/36/24/18/12/9/6Mbps IEEE 802.11n HT20:130/117/104/78/65/58.5/52/39/26/ 19.5/13/6.5Mbps IEEE 802.11n HT40:135/121.5/108/81/54/40.5/ 27/13.5Mbps
Antenna Type	: External
Antenna Gain	: 5dBi
System Input Voltage	: DC 5V from adapter input AC 120V/60Hz
Temperature Range	: 0 ~+ 40 °C
Adapter	: M/N:FLDE0501000K I/P:100-240V~50/60Hz 0.2A O/P:5V__1A DC Line:Unshielded,Undetachable ,1.5m
Lan Cable	: Unshielded,Detachable ,0.9m

1.3. Difference between Model Numbers

Note :The products are different only for model number,But the others are identical.

1.4. Independent Operation Modes

The basic operation modes are:

- 1.4.1. IEEE 802.11b; TX CH1 (2412MHz)
- 1.4.2. IEEE 802.11b; TX CH 6 (2437MHz)
- 1.4.3. IEEE 802.11b; TX CH11 (2462MHz)
- 1.4.4. IEEE 802.11g; TX CH1 (2412MHz)
- 1.4.5. IEEE 802.11g; TX CH 6 (2437MHz)
- 1.4.6. IEEE 802.11g; TX CH11 (2462MHz)
- 1.4.1. IEEE 802.11n HT20; TX CH1 (2412MHz)
- 1.4.2. IEEE 802.11n HT20; TX CH 6 (2437MHz)
- 1.4.3. IEEE 802.11n HT20; TX CH11 (2462MHz)
- 1.4.4. IEEE 802.11n HT40; TX CH1 (2422MHz)
- 1.4.5. IEEE 802.11n HT40; TX CH 4 (2437MHz)
- 1.4.6. IEEE 802.11 HT40n; TX CH7 (2452MHz)



1.5. Test Supporting System

1.5.1. PC

Model Number	:	a6608cn
Serial Number	:	3CR8382430
Manufacturer	:	HP
Data Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Unshielded, Detachable, 1.5m

1.5.2. Monitor

Model Number	:	KB744AA
Serial Number	:	3CR8382430
Manufacturer	:	HP
Data Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Shielded, Detachable, 1.5m

1.5.3. Keyboard

Model Number	:	SK-8115
Serial Number	:	CN-0DJ313-91D-0AE4
Manufacturer	:	HP

1.5.4. Mouse

Model Number	:	M056UO
Manufacturer	:	DELL
Data Cable	:	Shielded, Undetachable, 1.8m



2. TEST SITES

2.1. Test Facilities

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

Certificated by FCC, USA
Registration No.: 502831
Date of registration: February 09, 2009

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

Certificated by CNAL, CHINA
Registration No.: L1744
Date of registration: November 25, 2004

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

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

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

Certificated by ATCB, America
Date of registration: August 03, 2006

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	100340	May 31,09	May 31,10
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 31,09	May 31,10
Artificial Mains Network (AUX)	Kyoritsu	KNW-407	8-1579-1	Jan.19,09	Jan.19,11
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100168	May 2,09	May 2,10

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 31,09	May 31,10
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 27,09	Oct. 27,10
Signal Amplifier	Agilent	8447D	2944A10488	May 2,09	May 2,10
50Ω Coaxial Switch	ANRITSU	MP59B	6200530577	May 2,09	May 2,10

2.2.3. For radiated emission test(1GHz-18GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
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.
RF Probe	Rohde&Schwarz	URV5-Z4	100657	Jul.31,09	Jul.31,10
Power Meter	Rohde&Schwarz	NRVS	101732	Jul.31,09	Jul.31,10

2.2.5. For power spectral density Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSL3	101507	Jul.31,09	Jul.31,10

2.2.6. For Band edge compliance and 6dB bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSL3	101507	Jul.31,09	Jul.31,10



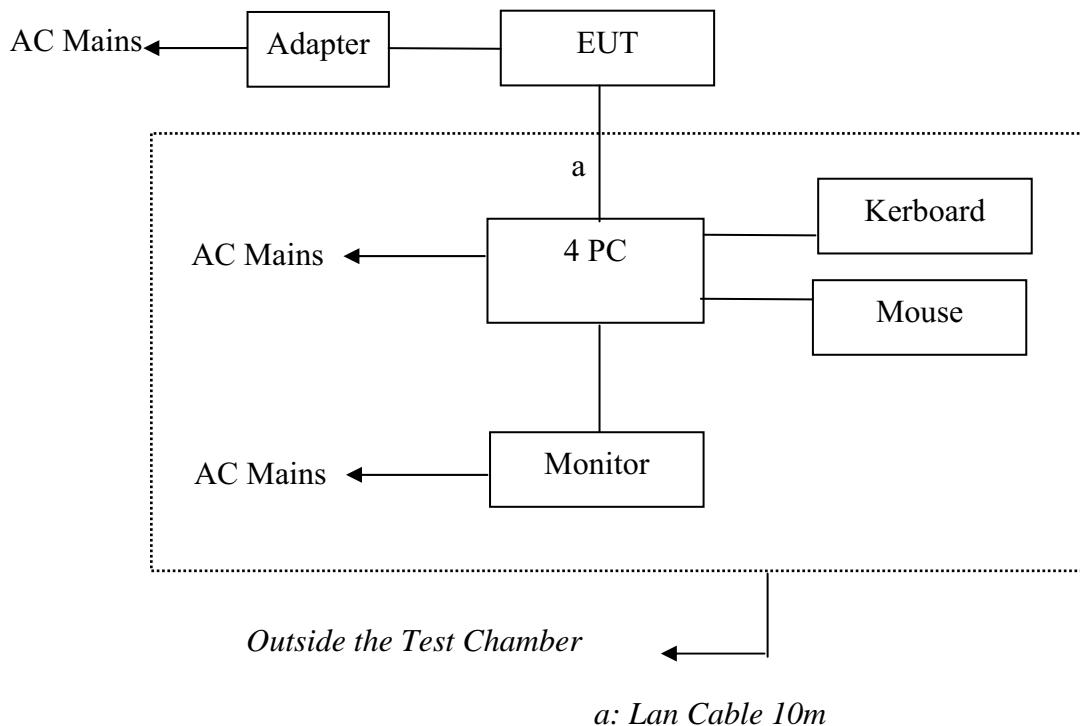
3. TEST SET-UP AND OPERATION MODES

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 : Wireless Router)

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	N/A
2	Conduction Emission Test	FCC Part15C: 15.207 ANSI C63.4-2003 KDB558074	PASS
3	Radiated Emission Test	FCC Part15C: 15.209 ANSI C63.4-2003 KDB558074	PASS
4	Band Edge Compliance Test	FCC Part15: 15.247 KDB558074	PASS
5	Output Power Test	FCC Part15: 15.247 KDB558074	PASS
6	6dB Bandwith Test	FCC Part15: 15.247 KDB558074	PASS
7	Power Spectral Density Test	FCC Part15: 15.247 KDB558074	PASS
8	Antenna requirement	FCC Part 15:15.203	PASS



5. DATA RATE VS POWER

Mode	data rate (Mbps)	CH	Read (dBm)	Factor (dB)	Result (dBm)
11b	1	CH6	11.02	6	17.02
	2	CH6	11.26	6	17.26
	5.5	CH6	11.38	6	17.38
	11	CH6	11.94	6	17.94
11g	54	CH6	11.42	6	17.42
	48	CH6	10.26	6	16.26
	36	CH6	10.35	6	16.35
	24	CH6	10.39	6	16.39
	18	CH6	10.24	6	16.24
	12	CH6	10.44	6	16.44
	9	CH6	10.36	6	16.36
	6	CH6	10.11	6	16.11
11n HT20	6	CH6	9.76	6	15.76
	13	CH6	9.85	6	15.85
	19.5	CH6	9.87	6	15.87
	26	CH6	9.69	6	15.69
	39	CH6	9.42	6	15.42
	52	CH6	9.62	6	15.62
	58.5	CH6	9.68	6	15.68
	65	CH6	9.77	6	15.77
	78	CH6	9.84	6	15.84
	104	CH6	9.88	6	15.88
	117	CH6	10.03	6	16.03
	130	CH6	10.12	6	16.12
11n HT40	135	CH3	9.84	6	15.84
	121.5	CH3	9.36	6	15.36
	108	CH3	8.87	6	14.87
	81	CH3	8.88	6	14.88
	54	CH3	8.89	6	14.89
	40.5	CH3	8.75	6	14.75
	27	CH3	8.49	6	14.49
	13.5	CH3	8.18	6	14.18
Result=Read+Factor Factor= RF attenuator loss(3dB)+Cable loss(3dB) 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.					



6. EMISSION TEST RESULTS

6.1. Conducted Emission at The Mains Terminals Test

RESULT	: Pass
Test procedure	: FCC Part 15 Subpart C
Frequency range	: 0.15~30MHz
Test Site	: Shielded Room
Limits	: FCC Part 15 Subpart C

Test Setup

Date of test	: Jan. 20, 2010
Model No.	: IP0494
Input Voltage	: DC 5V from adapter input AC 120V/60Hz
Operation Mode	: TX 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 bandwidth of the test receiver (R&S ESCS30) was set at 9 kHz.

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

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

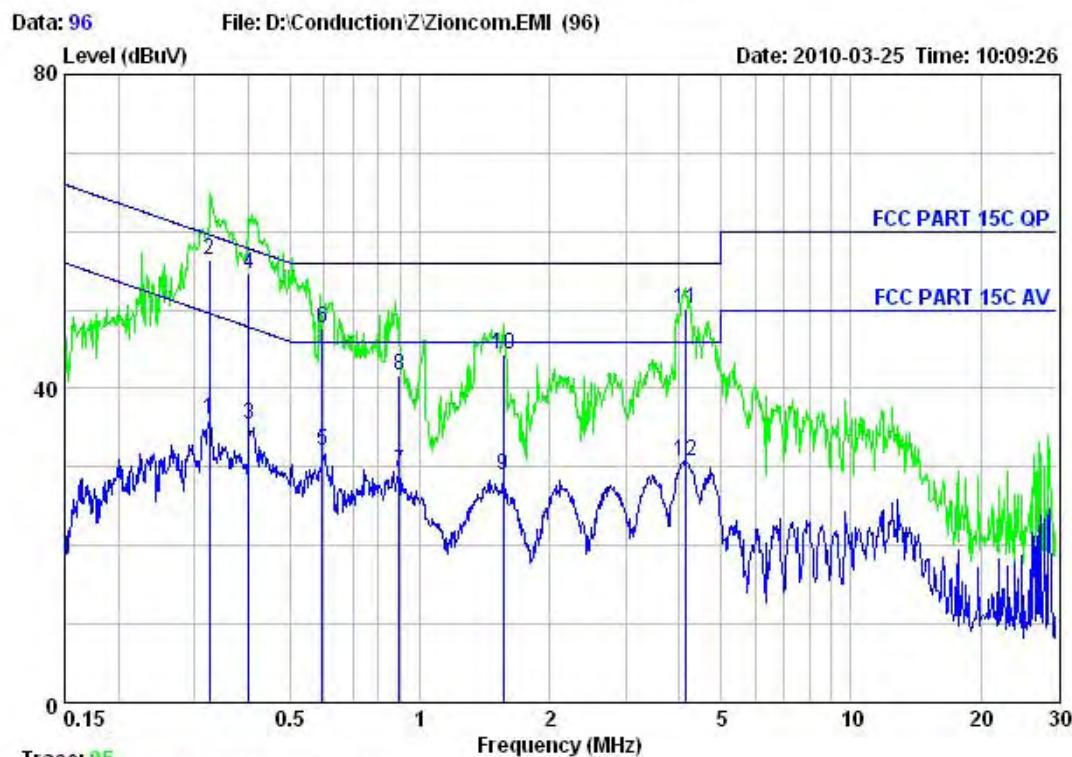
When IEEE 802.11b's data rate was 11Mbps ; IEEE 802.11g's data rate was 54Mbps, When IEEE 802.11n HT20's data rate was 130Mbps ; IEEE 802.11n HT40's data rate was 135Mbps the EUT have maximum output power and all the test was performed in this data rate set.

Note: Test uncertainty: ±2.54dB at a level of confidence of 95%.:



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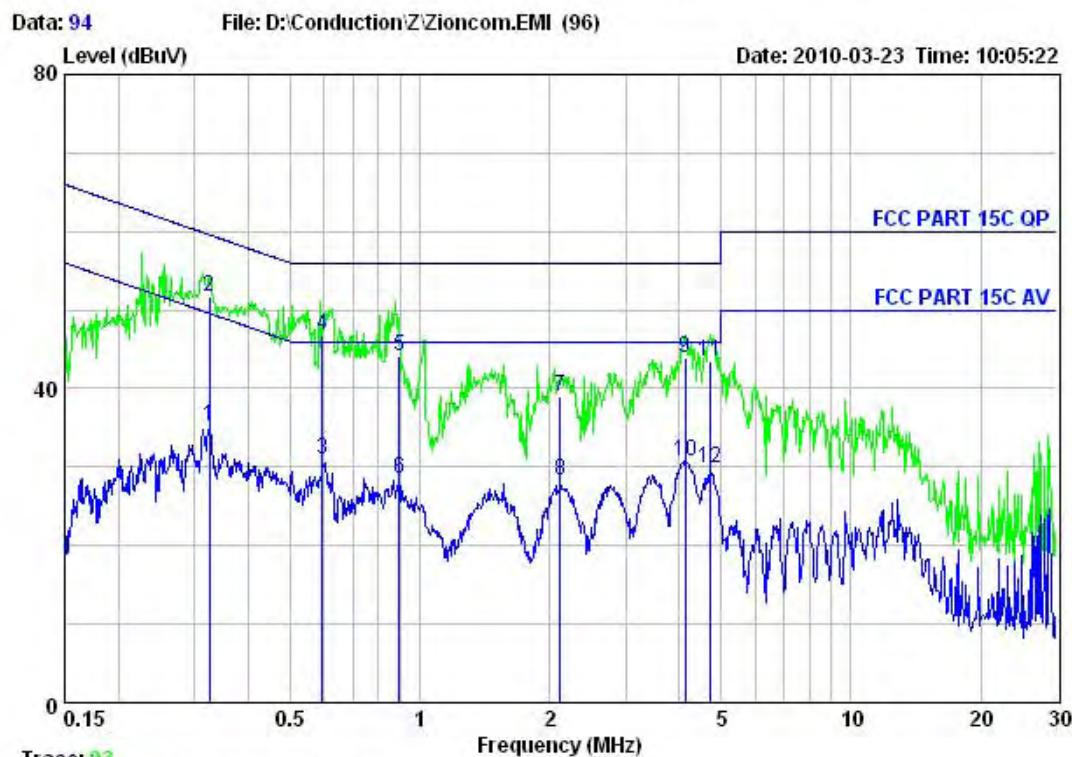
Test Site : 843 Shielded Room
 Limit : FCC PART 15C QP LINE Phase:NEUTRAL
 EUT : Wireless Router
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : IP0494
 Test Engineer: Jade
 Comment : Temp:25.3'C Humi:55% Press:101.51kPa
 Test Mode : TX Mode

Freq.	Level	Limits	Margin	Remark
(MHz)	(dBuV)	(dBuV)	(dB)	
1	0.33	36.21	49.57	Average
2	0.33	56.30	59.57	QP
3	0.40	35.42	47.81	Average
4	0.40	54.50	57.81	QP
5	0.59	32.01	46.00	Average
6	0.59	47.70	56.00	QP
7	0.89	29.44	46.00	Average
8	0.89	41.60	56.00	QP
9	1.56	28.86	46.00	Average
10	1.56	44.30	56.00	QP
11	4.14	50.20	56.00	QP
12	4.14	30.76	46.00	Average



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Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 0.33	35.21	49.57	14.36	Average
2 0.33	51.60	59.57	7.97	QP
3 0.59	31.01	46.00	14.99	Average
4 0.59	46.90	56.00	9.10	QP
5 0.89	44.20	56.00	11.80	QP
6 0.89	28.44	46.00	17.56	Average
7 2.12	39.10	56.00	16.90	QP
8 2.12	28.28	46.00	17.72	Average
9 4.14	43.90	56.00	12.10	QP
10 4.14	30.76	46.00	15.24	Average
11 4.70	43.40	56.00	12.60	QP
12 4.70	29.85	46.00	16.15	Average



6.2. Radiated Emission

6.2.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.247(a)

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 (calibrated by dipole 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.

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.

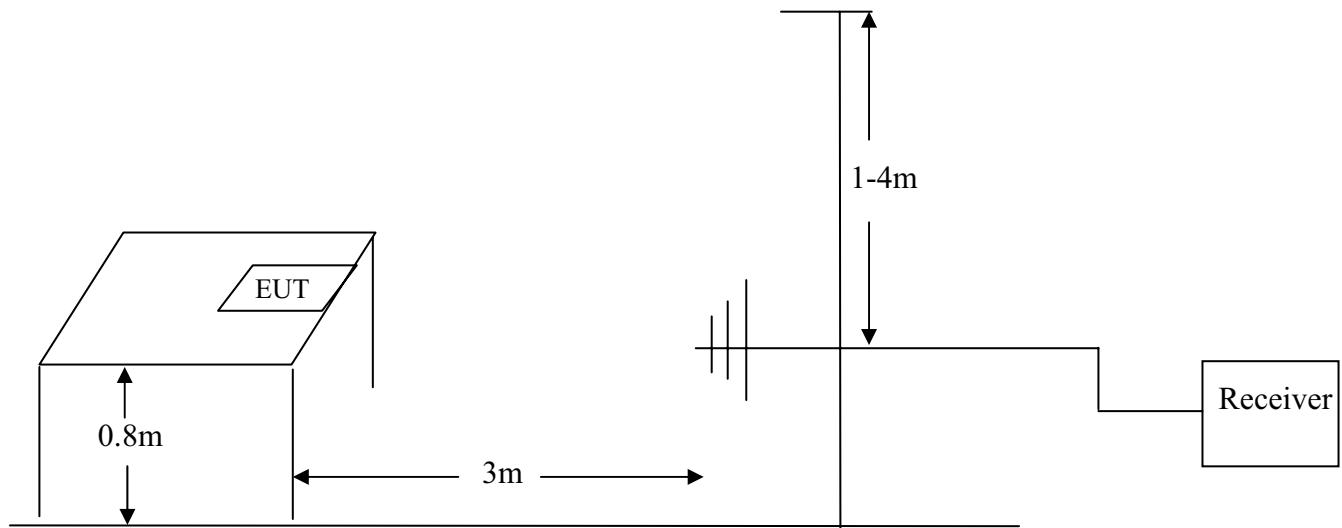
The EUT was tested in Chamber Site.

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

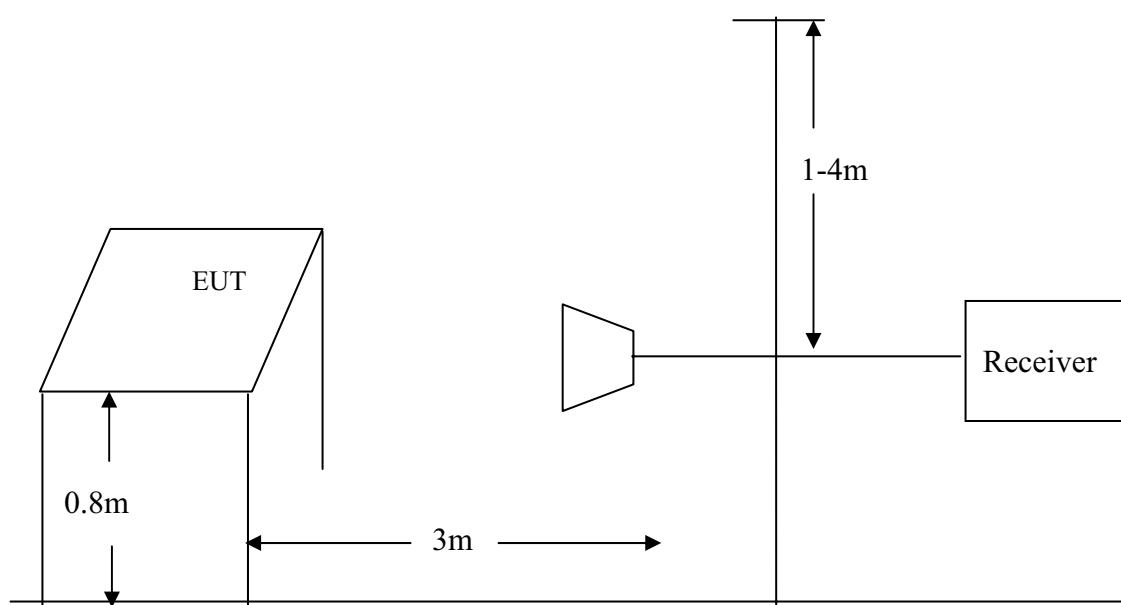


6.2.3. Test Setup Diagram

5.1.3.1. Frequency range: 30MHz-1000MHz



5.1.3.2. Frequency range: 1 GHz -25GHz



The test plots as following:

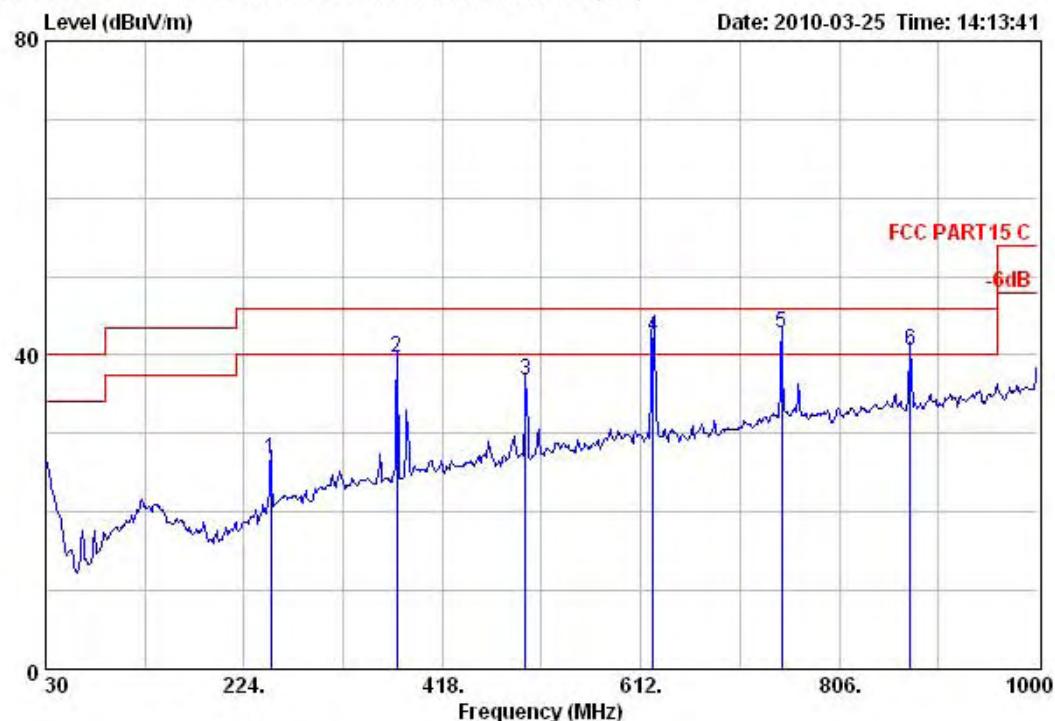
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Data: 173

File: D:\Radiation data\Z\ZIONCOM1.EMI (221)

Date: 2010-03-25 Time: 14:13:41



Test Site : 966 Chamber
 Limit : FCC PART15 C
 Dis. / Ant. : 3m 25757-3M Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 Power : DC 5V from adapter input AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:55% Press:101.35kPa
 Test Mode : TX Mode
 Ant high:2.2m; Table angle:95'

	Emission			Ant.	Cable			
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>								
1	250.19	26.84	46.00	19.16	13.08	12.80	0.96	QP
2	373.38	39.60	46.00	6.40	22.70	15.78	1.12	QP
3	499.48	36.75	46.00	9.25	16.59	18.90	1.26	QP
4	623.64	42.32	46.00	3.68	19.99	20.94	1.39	QP
5	749.74	42.76	46.00	3.24	17.95	23.28	1.53	QP
6	875.84	40.66	46.00	5.34	15.00	23.94	1.72	QP



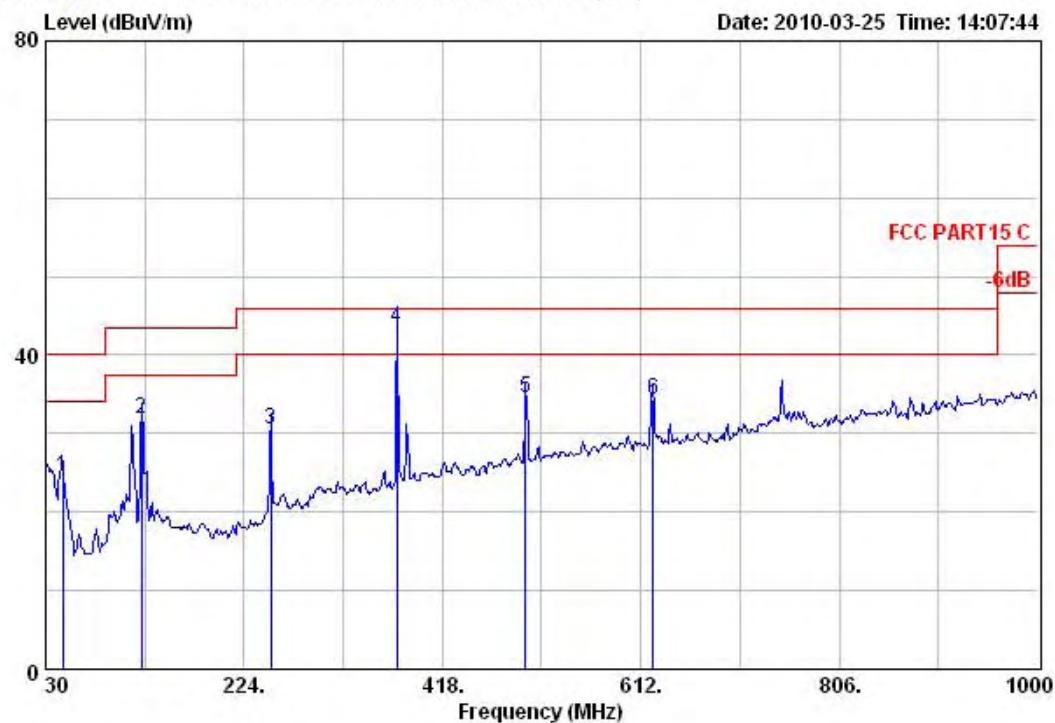
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Data: 172

File: D:\Radiation data\ZIONCOM1.EMI (221)

Date: 2010-03-25 Time: 14:07:44



Test Site : 966 Chamber
 Limit : FCC PART15 C
 Dis. / Ant. : 3m 25757-3M Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 Power : DC 5V from adapter input AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:55% Press:101.35kPa
 Test Mode : TX Mode
 Ant high:1.1m; Table angle:88'

	Emission			Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 46.49	24.47	40.00	15.53	12.85	11.06	0.56	QP
2 124.09	31.90	43.50	11.60	19.63	11.53	0.74	QP
3 250.19	30.45	46.00	15.55	16.69	12.80	0.96	QP
4 373.38	43.53	46.00	2.47	26.63	15.78	1.12	QP
5 499.48	34.63	46.00	11.37	14.47	18.90	1.26	QP
6 623.64	34.26	46.00	11.74	11.93	20.94	1.39	QP



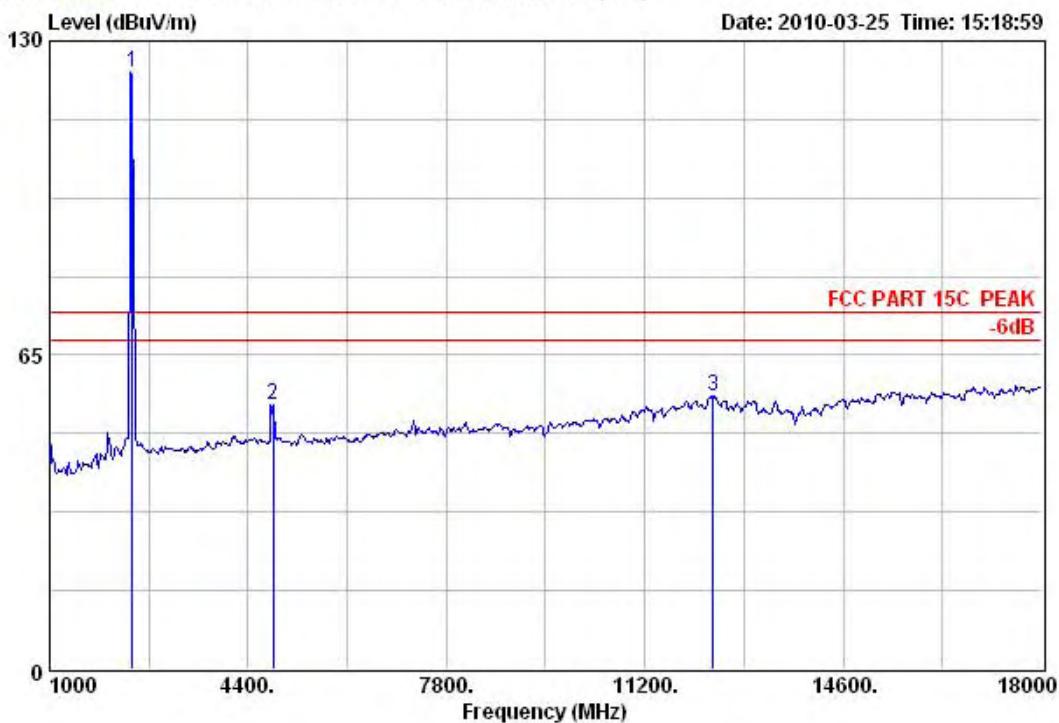
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Data: 174

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

Date: 2010-03-25 Time: 15:18:59



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH1 2412MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2412.00	123.65	74.00	-49.65	89.92	31.50	2.23	Peak
2 4824.00	54.74	74.00	19.26	17.77	34.59	2.38	Peak
3 31237.300	56.53	74.00	17.47	13.74	39.95	2.84	Peak



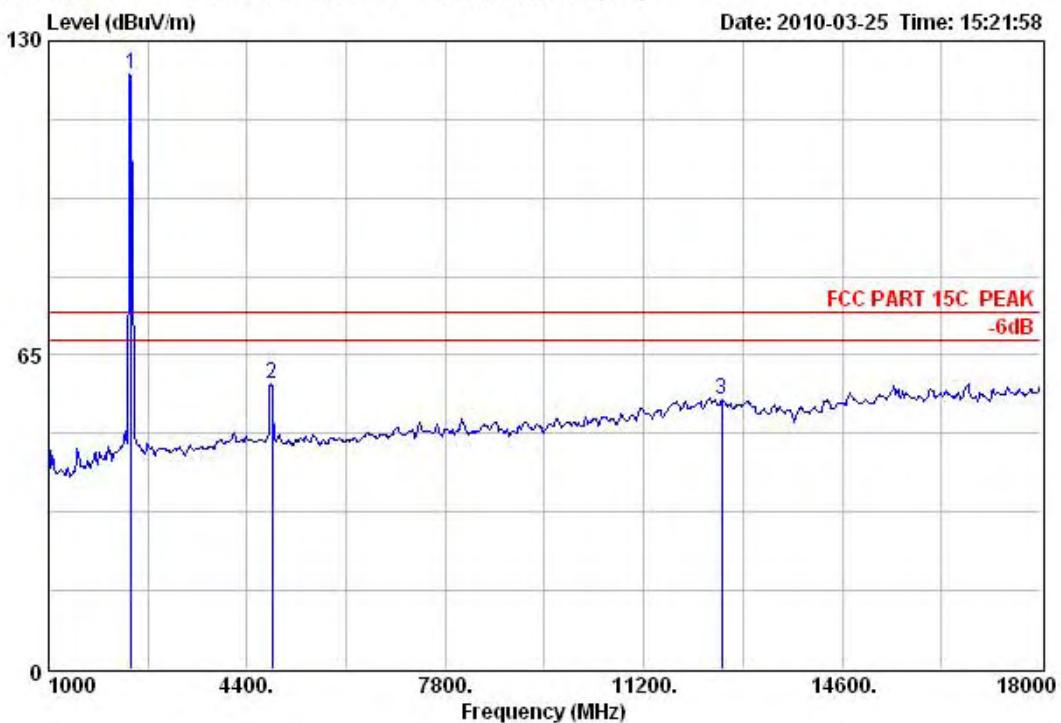
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Data: 175

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

Date: 2010-03-25 Time: 15:21:58



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH1 2412MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2412.00	123.15	74.00	-49.15	89.42	31.50	2.23	Peak
2 4824.00	58.94	74.00	15.06	21.97	34.59	2.38	Peak
3 31254.300	55.84	74.00	18.16	12.96	40.03	2.85	Peak



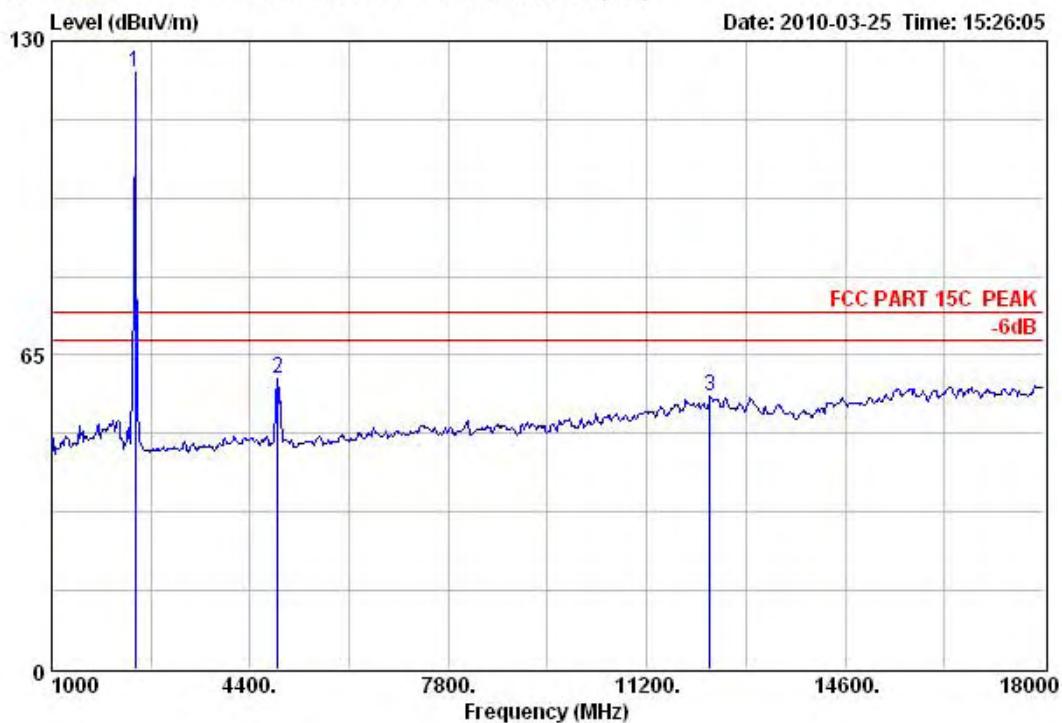
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Data: 176

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

Date: 2010-03-25 Time: 15:26:05



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2437.00	123.63	74.00	-49.63	89.86	31.54	2.23	Peak
2 4874.00	60.03	74.00	13.97	23.03	34.62	2.38	Peak
3 31228.80	56.41	74.00	17.59	13.65	39.92	2.84	Peak



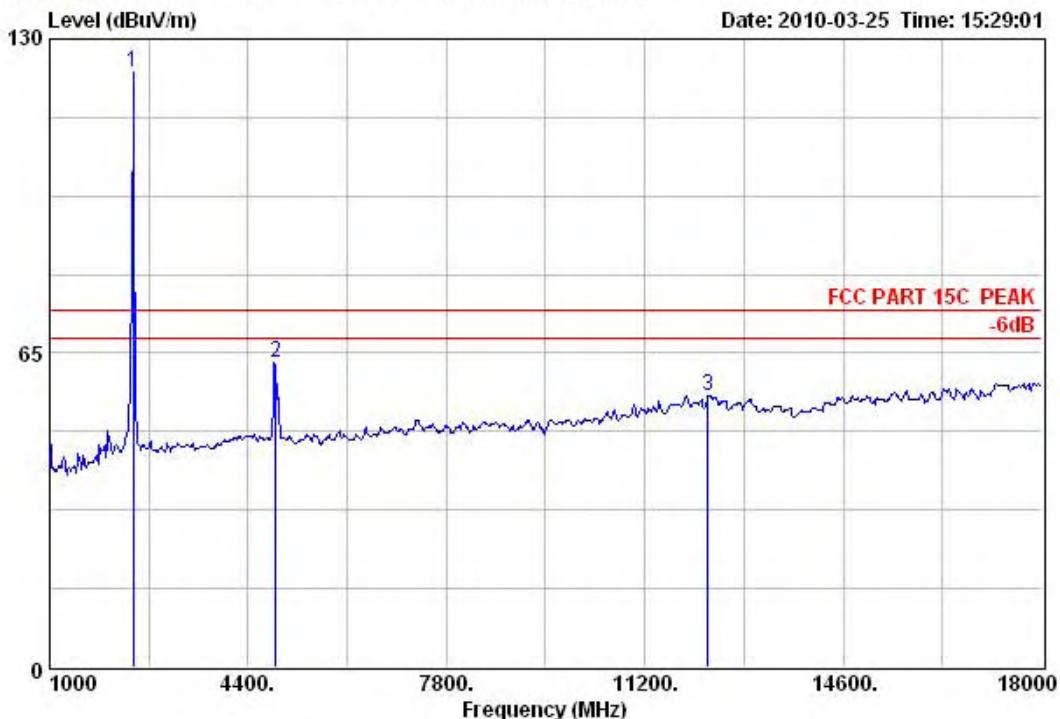
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Data: 177

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

Date: 2010-03-25 Time: 15:29:01



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2437.00	123.20	74.00	-49.20	89.43	31.54	2.23	Peak
2 4874.00	63.09	74.00	10.91	26.09	34.62	2.38	Peak
3 312288.00	56.12	74.00	17.88	13.36	39.92	2.84	Peak



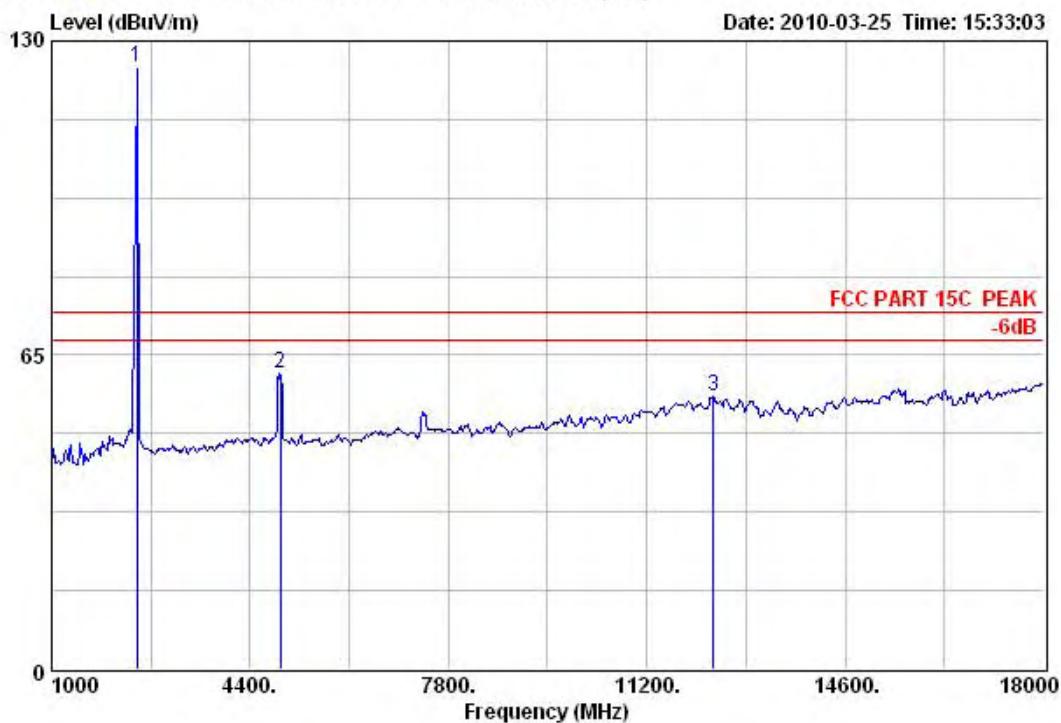
NS Technology

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Data: 178

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

Date: 2010-03-25 Time: 15:33:03



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2462.00	124.50	74.00	-50.50	90.71	31.56	2.23	Peak
2 4924.00	61.28	74.00	12.72	24.24	34.66	2.38	Peak
3 31233.90	56.62	74.00	17.38	13.84	39.94	2.84	Peak



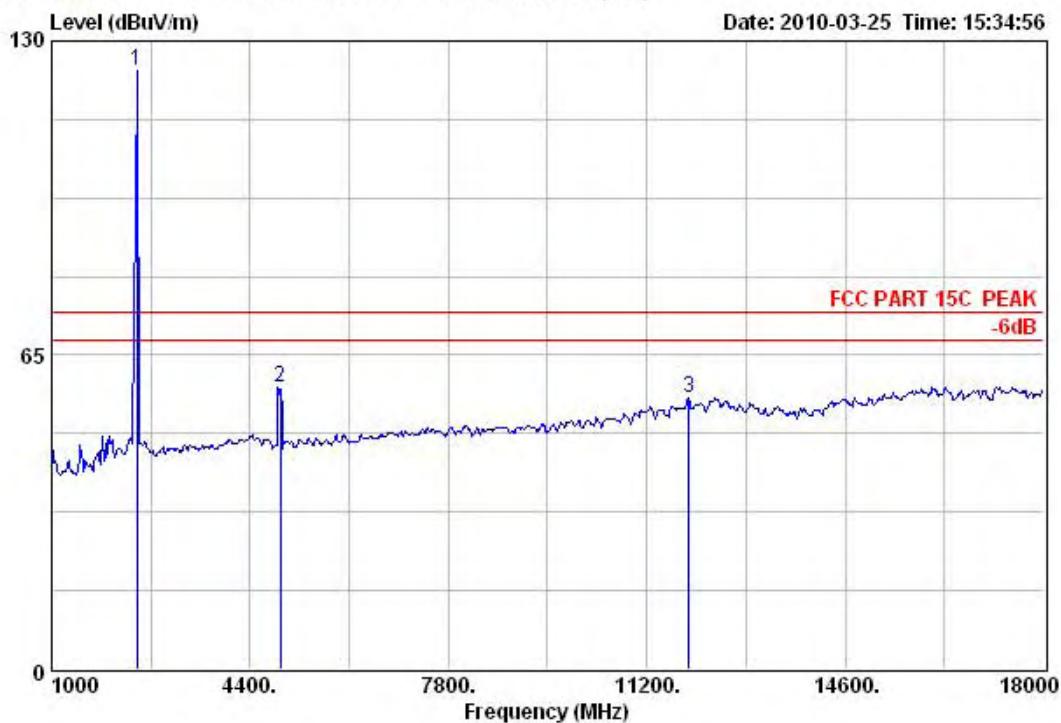
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Data: 179

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

Date: 2010-03-25 Time: 15:34:56



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2462.00	123.67	74.00	-49.67	89.88	31.56	2.23	Peak
2 4924.00	58.25	74.00	15.75	21.21	34.66	2.38	Peak
3 31191.400	56.01	74.00	17.99	13.52	39.67	2.82	Peak



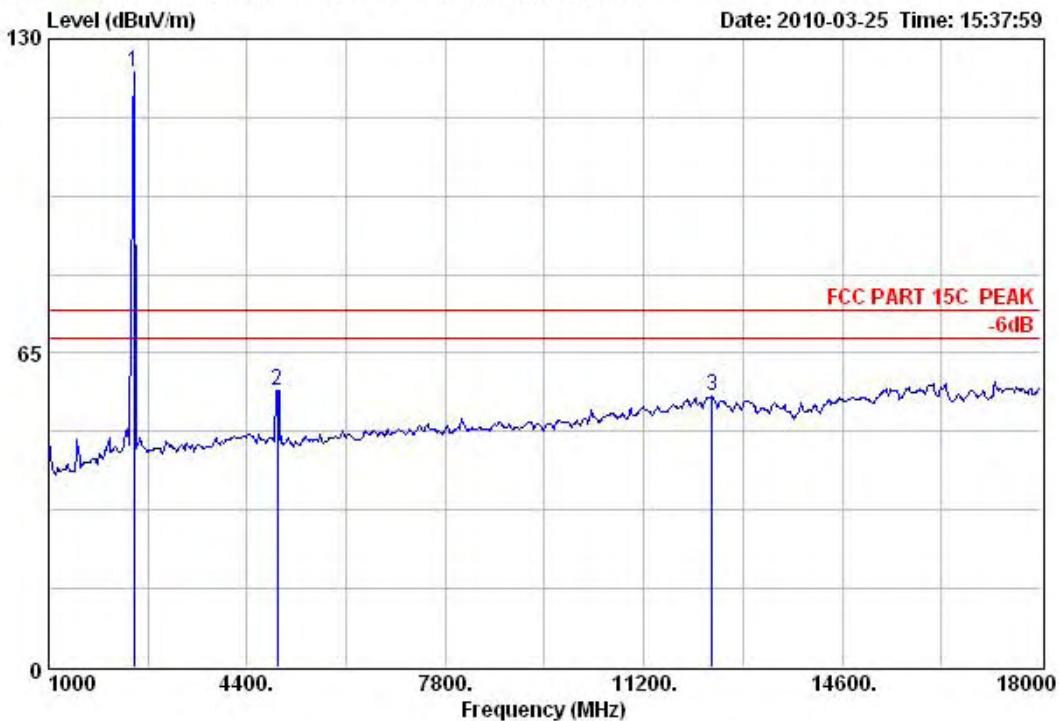
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Data: 180

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

Date: 2010-03-25 Time: 15:37:59



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2462.00	123.00	74.00	-49.00	89.21	31.56	2.23	Peak
2 4924.00	57.26	74.00	16.74	20.22	34.66	2.38	Peak
3 31237.300	56.01	74.00	17.99	13.22	39.95	2.84	Peak



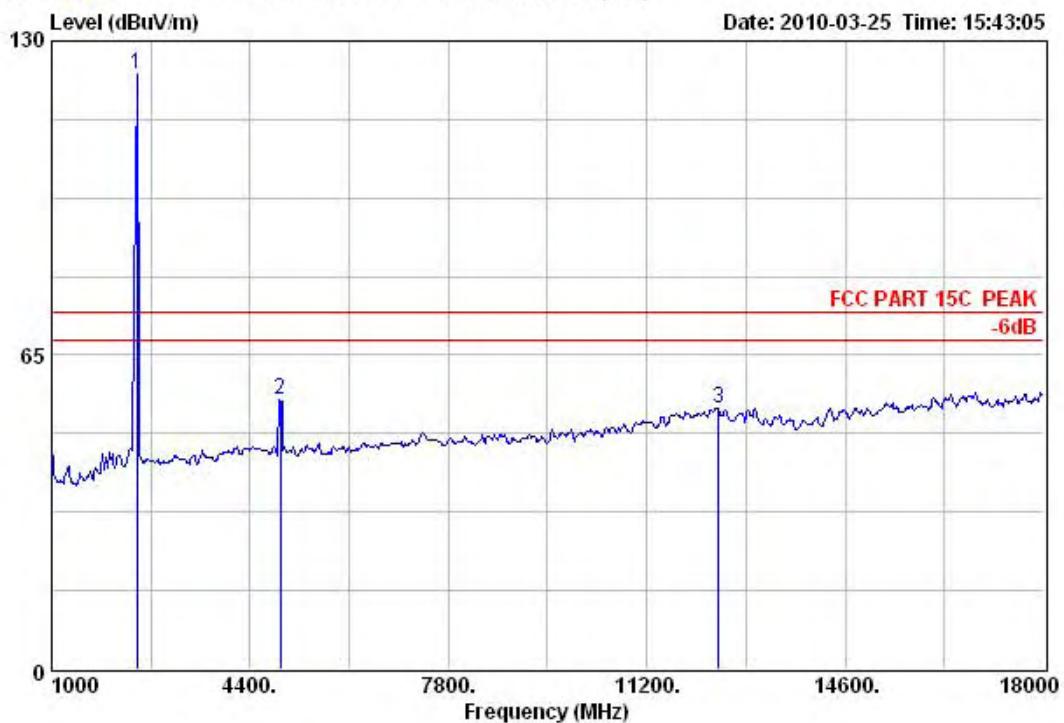
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Data: 181

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

Date: 2010-03-25 Time: 15:43:05



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable	Remark
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB)	
<hr/>						
1 2462.00	123.02	74.00	-49.02	89.23	31.56	2.23 Peak
2 4924.00	55.83	74.00	18.17	18.79	34.66	2.38 Peak
3 12424.00	54.05	74.00	19.95	11.23	39.97	2.85 Peak



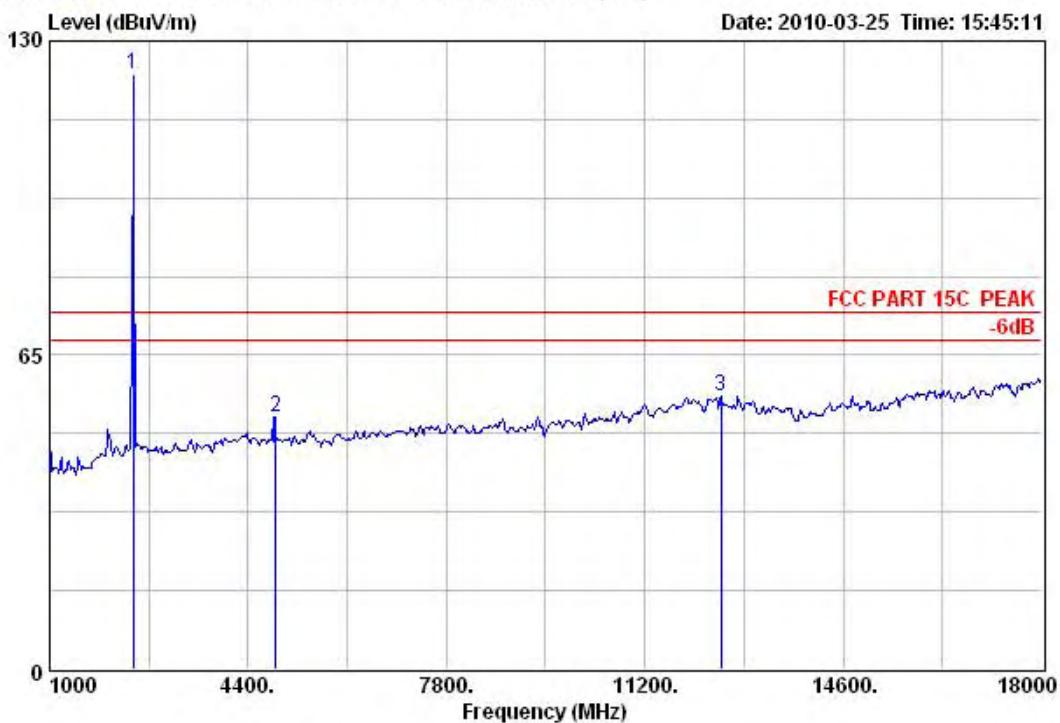
NS Technology

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Data: 182

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

Date: 2010-03-25 Time: 15:45:11



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2437.00	123.06	74.00	-49.06	89.29	31.54	2.23	Peak
2 4874.00	52.23	74.00	21.77	15.23	34.62	2.38	Peak
3 312509.00	56.59	74.00	17.41	13.73	40.01	2.85	Peak



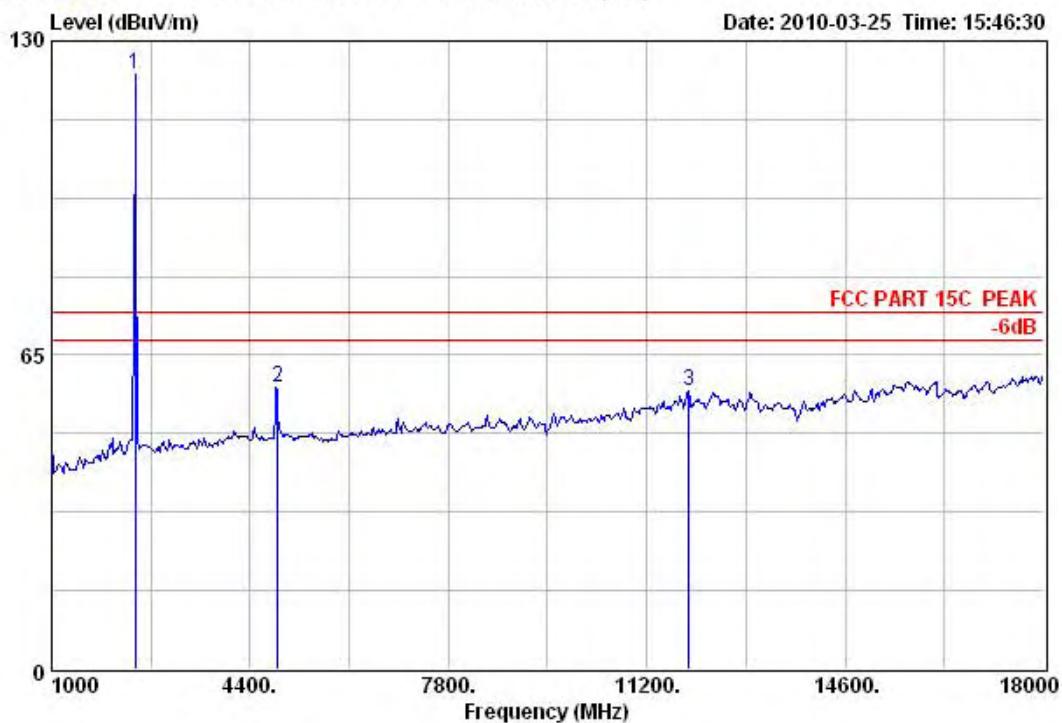
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Data: 183

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

Date: 2010-03-25 Time: 15:46:30



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2437.00	123.22	74.00	-49.22	89.45	31.54	2.23	Peak
2 4874.00	58.25	74.00	15.75	21.25	34.62	2.38	Peak
3 11914.00	57.56	74.00	16.44	15.07	39.67	2.82	Peak



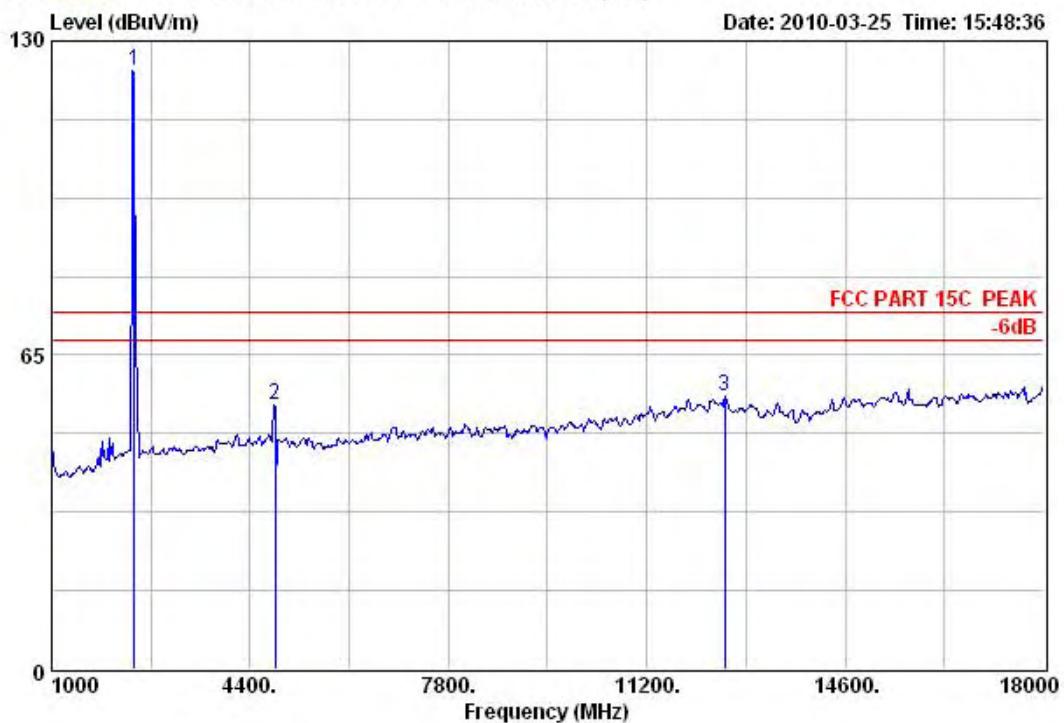
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Data: 184

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

Date: 2010-03-25 Time: 15:48:36



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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	Remark
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB)	
<hr/>						
1 2412.00	123.72	74.00	-49.72	89.99	31.50	2.23 Peak
2 4824.00	54.50	74.00	19.50	17.53	34.59	2.38 Peak
3 12543.00	56.47	74.00	17.53	13.59	40.03	2.85 Peak



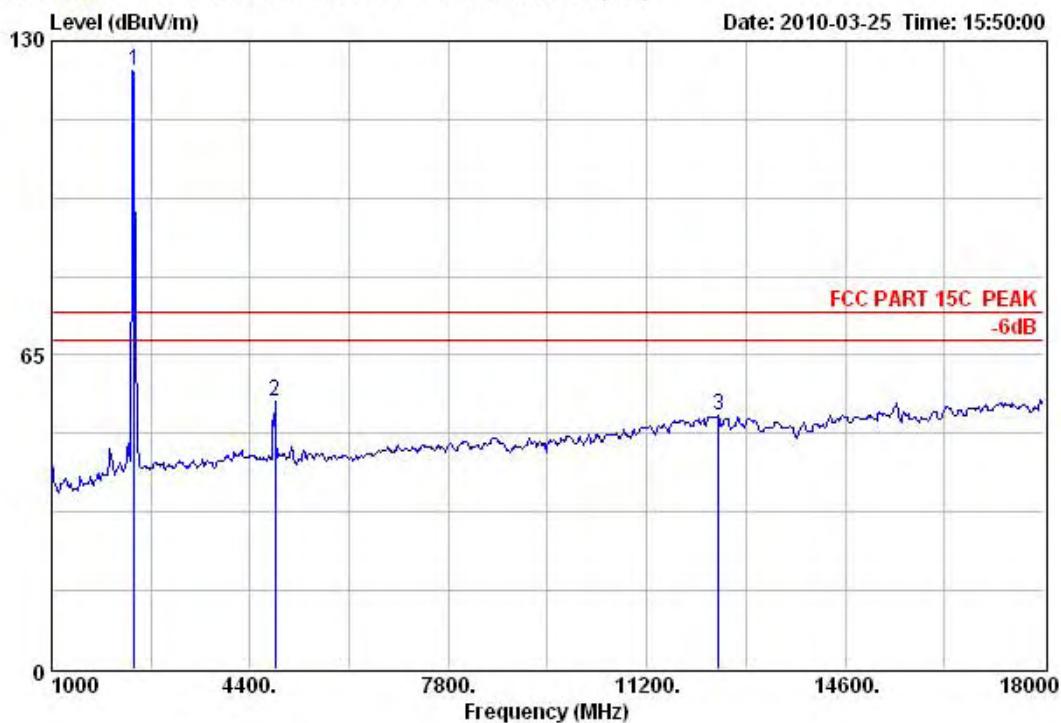
NS Technology

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Data: 185

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

Date: 2010-03-25 Time: 15:50:00



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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	Loss (dB/m)	Remark
1 2412.00	123.85	74.00	-49.85	90.12	31.50	2.23	Peak
2 4824.00	55.25	74.00	18.75	18.28	34.59	2.38	Peak
3 312424.00	52.43	74.00	21.57	9.61	39.97	2.85	Peak



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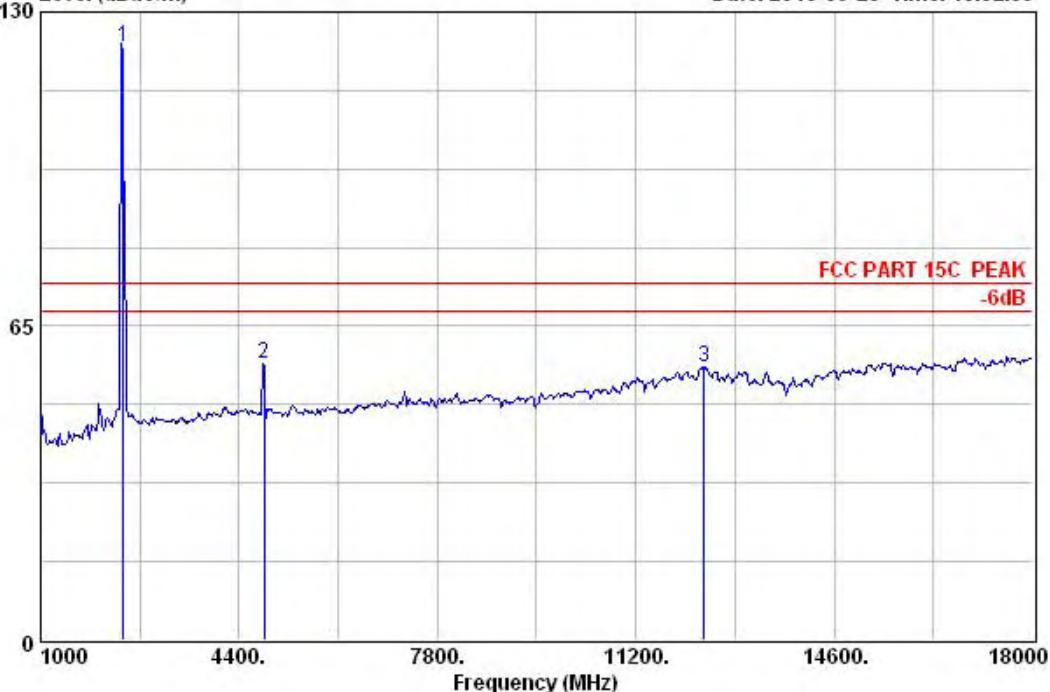
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
Tel: +86-769-85935656
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Data: 186

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

Date: 2010-03-25 Time: 15:52:59

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2412.00	122.65	74.00	-48.65	88.92	31.50	2.23	Peak
2 4824.00	57.25	74.00	16.75	20.28	34.59	2.38	Peak
3 2412.00	56.53	74.00	17.47	13.74	39.95	2.84	Peak



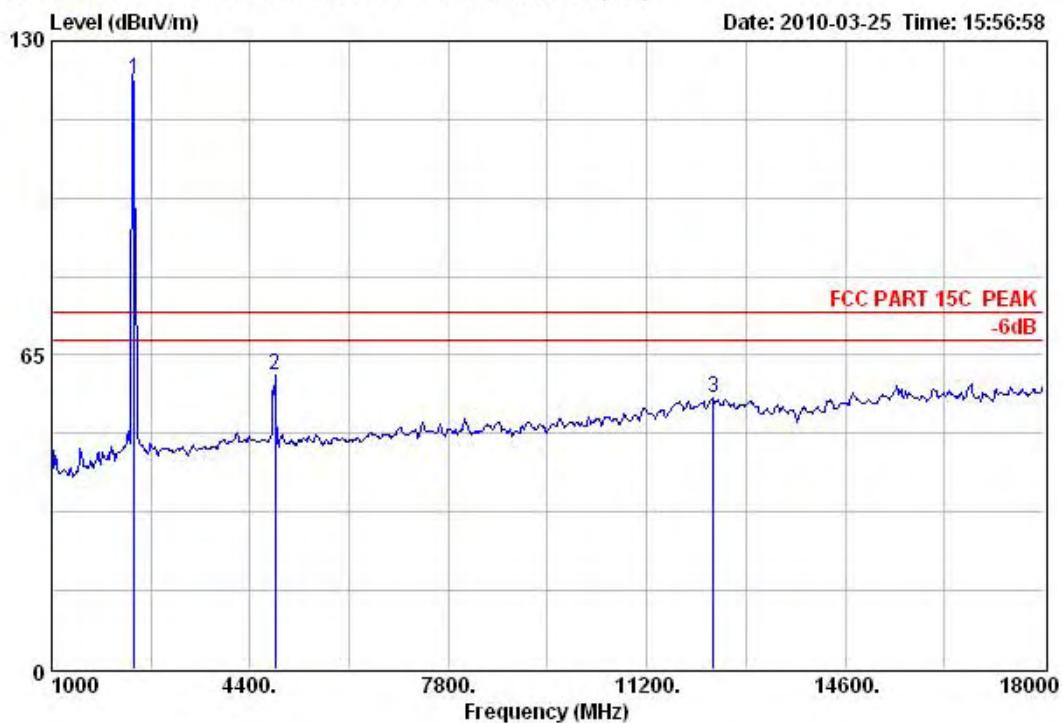
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Data: 187

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

Date: 2010-03-25 Time: 15:56:58



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2412.00	122.15	74.00	-48.15	88.42	31.50	2.23	Peak
2 4824.00	60.82	74.00	13.18	23.85	34.59	2.38	Peak
3 31233.90	56.01	74.00	17.99	13.23	39.94	2.84	Peak



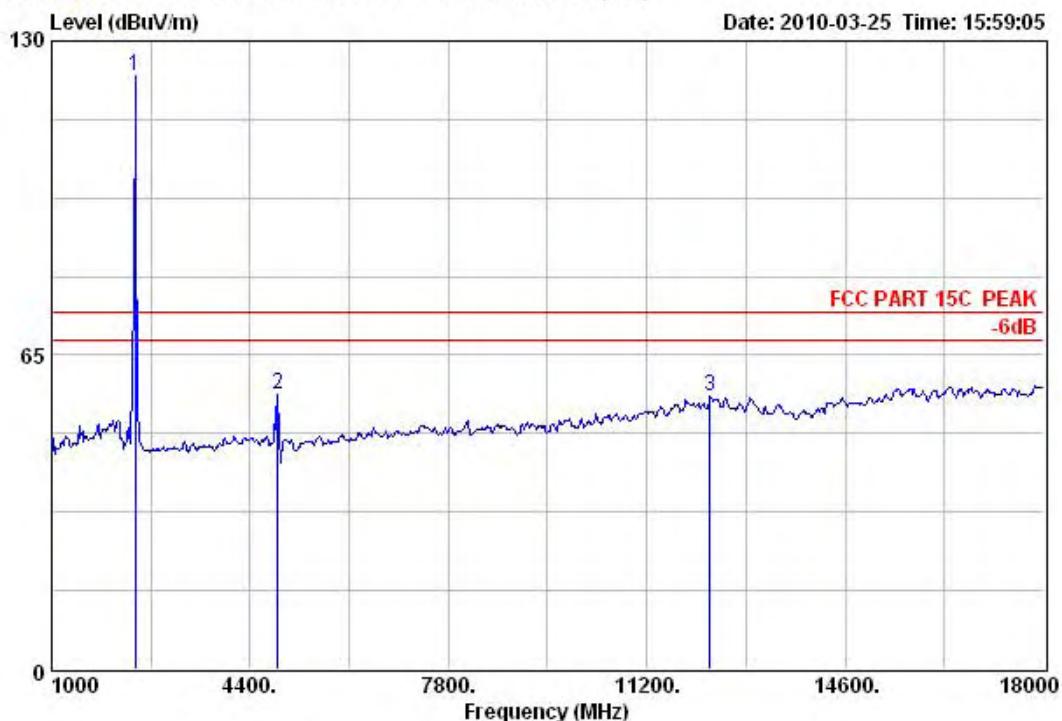
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Data: 188

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

Date: 2010-03-25 Time: 15:59:05



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2437.00	122.63	74.00	-48.63	88.86	31.54	2.23	Peak
2 4874.00	57.03	74.00	16.97	20.03	34.62	2.38	Peak
3 312288.00	56.41	74.00	17.59	13.65	39.92	2.84	Peak



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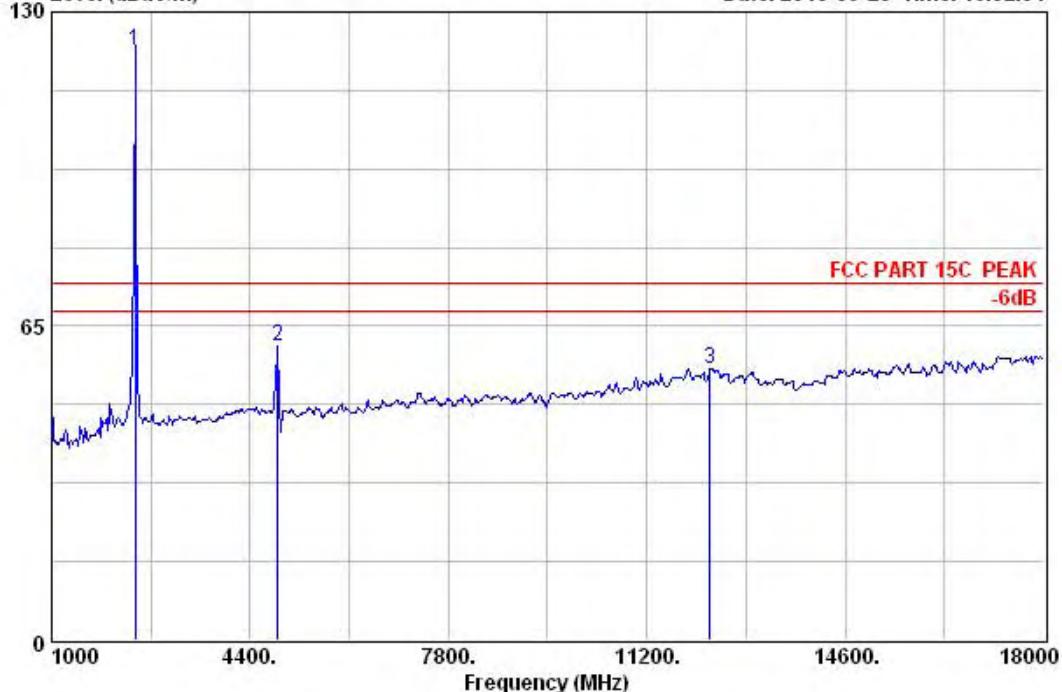
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
Tel: +86-769-85935656
Fax: +86-769-85991080

Data: 189

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

Date: 2010-03-25 Time: 16:02:01

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2437.00	122.20	74.00	-48.20	88.43	31.54	2.23	Peak
2 4874.00	60.66	74.00	13.34	23.66	34.62	2.38	Peak
3 31228.80	56.12	74.00	17.88	13.36	39.92	2.84	Peak

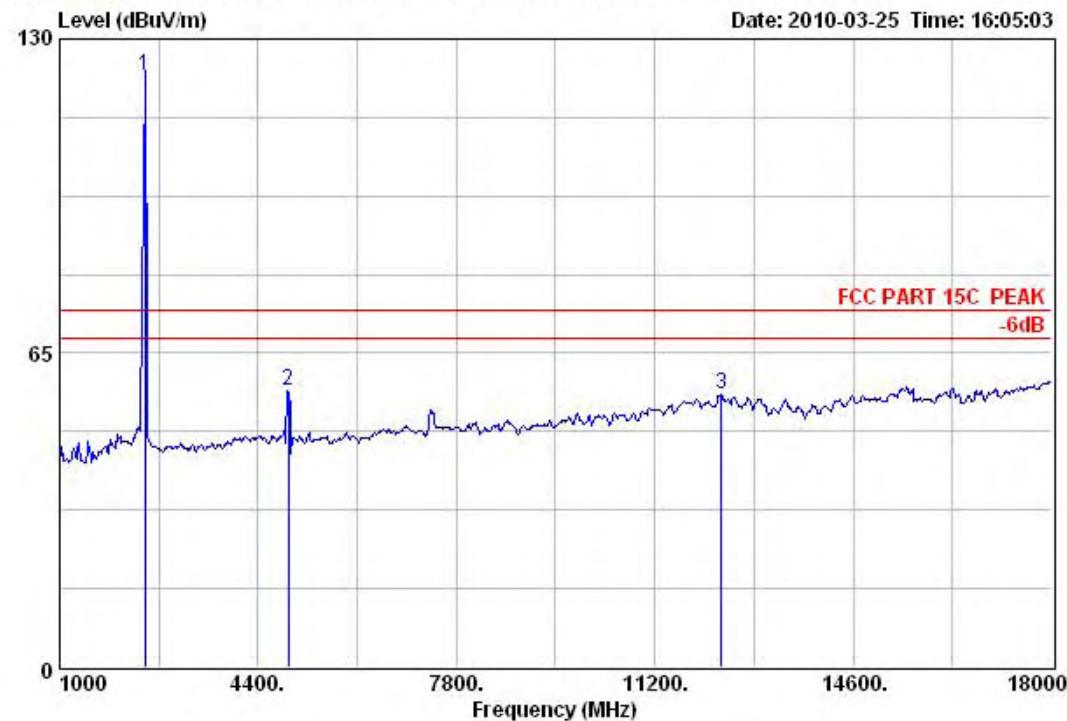


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Data: 190

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



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2462.00	122.50	74.00	-48.50	88.71	31.56	2.23	Peak
2 4924.00	57.28	74.00	16.72	20.24	34.66	2.38	Peak
3 12339.00	56.62	74.00	17.38	13.84	39.94	2.84	Peak



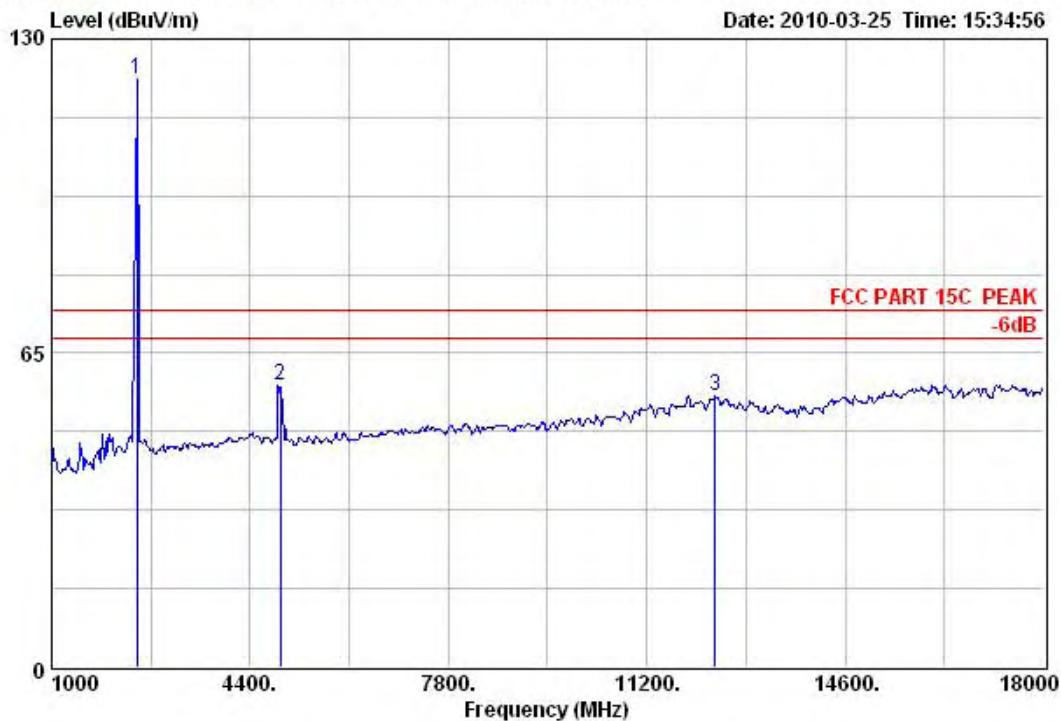
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Data: 191

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

Date: 2010-03-25 Time: 15:34:56



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
1 2462.00	121.67	74.00	-47.67	87.88	31.56	2.23	Peak
2 4924.00	58.25	74.00	15.75	21.21	34.66	2.38	Peak
3 31237.300	56.02	74.00	17.98	13.23	39.95	2.84	Peak



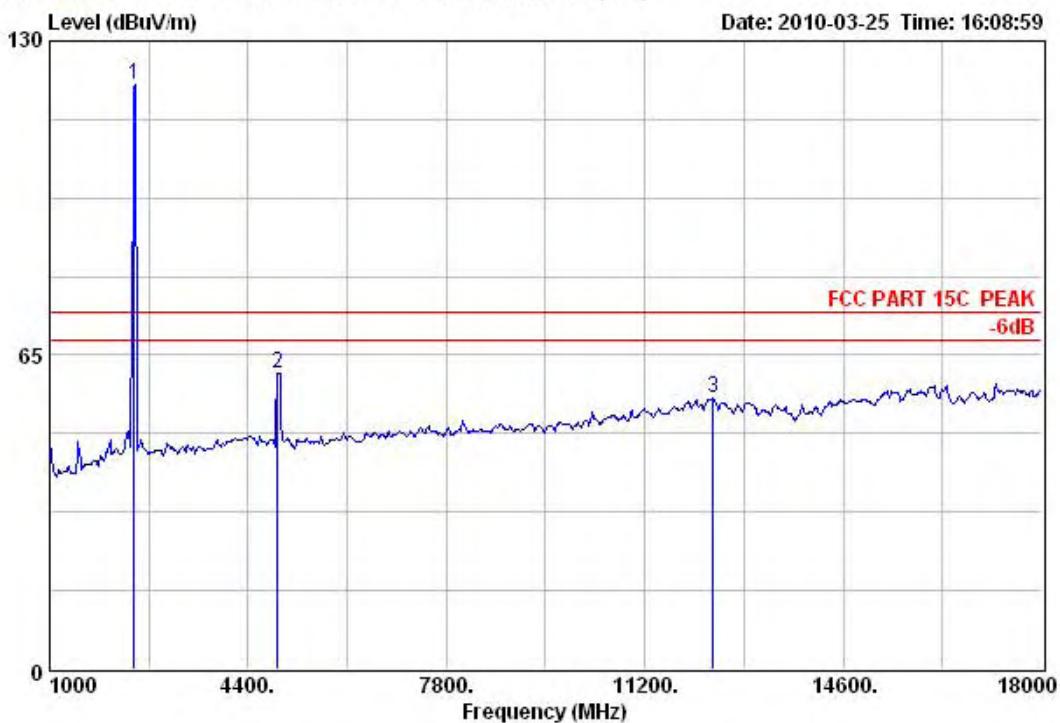
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Tel: +86-769-85935656
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Data: 192

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

Date: 2010-03-25 Time: 16:08:59



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH7 2452MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2452.00	121.00	74.00	-47.00	87.23	31.54	2.23	Peak
2 4904.00	61.26	74.00	12.74	24.25	34.63	2.38	Peak
3 2452.00	56.01	74.00	17.99	13.22	39.95	2.84	Peak



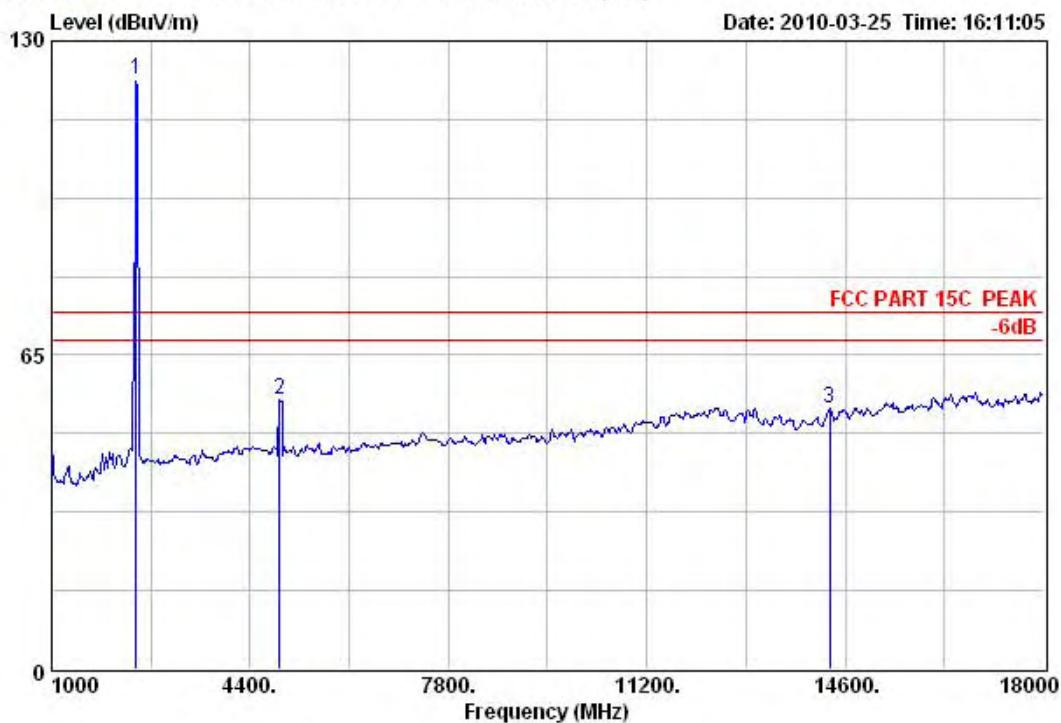
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Tel: +86-769-85935656
Fax: +86-769-85991080

Data: 193

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

Date: 2010-03-25 Time: 16:11:05



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH7 2452MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2452.00	122.02	74.00	-48.02	88.25	31.54	2.23	Peak
2 4904.00	55.83	74.00	18.17	18.82	34.63	2.38	Peak
3 14328.00	54.06	74.00	19.94	10.68	40.42	2.96	Peak



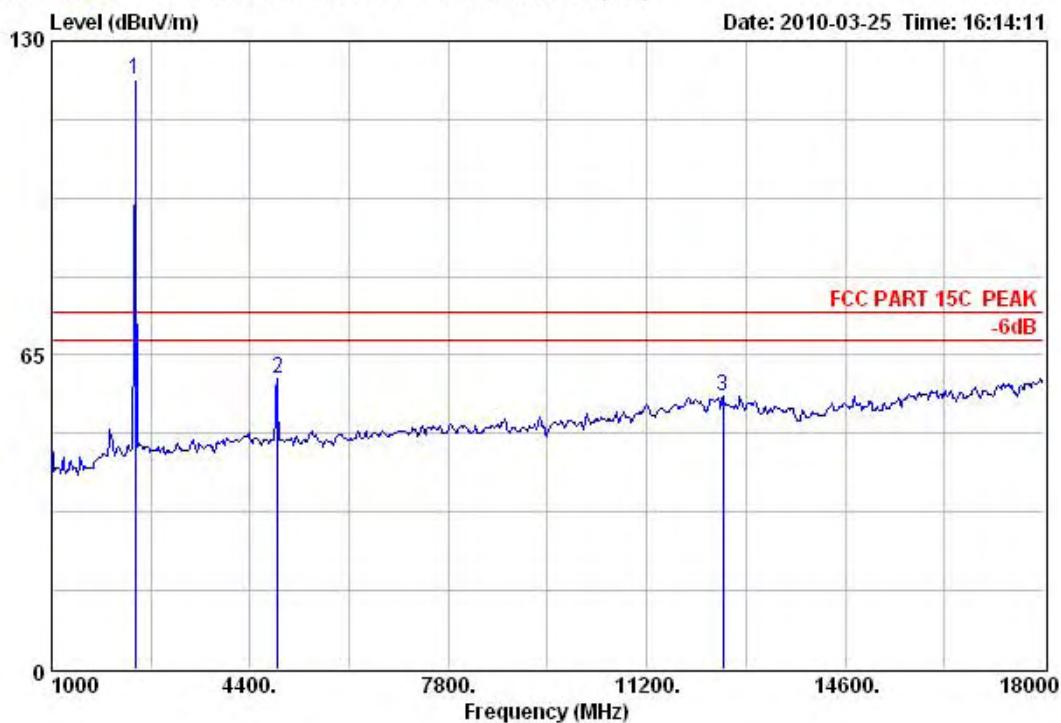
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Data: 194

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

Date: 2010-03-25 Time: 16:14:11



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH4 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2437.00	122.06	74.00	-48.06	88.29	31.54	2.23	Peak
2 4874.00	60.07	74.00	13.93	23.07	34.62	2.38	Peak
3 312509.00	56.59	74.00	17.41	13.73	40.01	2.85	Peak



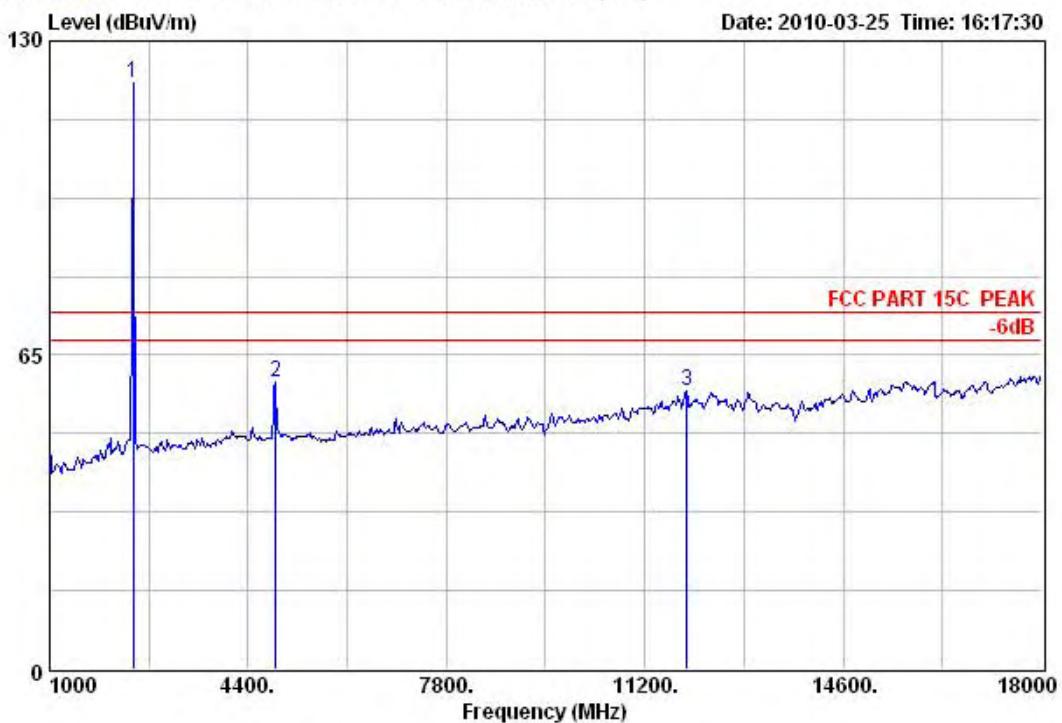
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Data: 195

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

Date: 2010-03-25 Time: 16:17:30



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH4 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2437.00	121.22	74.00	-47.22	87.45	31.54	2.23	Peak
2 4874.00	59.52	74.00	14.48	22.52	34.62	2.38	Peak
3 11914.00	57.56	74.00	16.44	15.07	39.67	2.82	Peak



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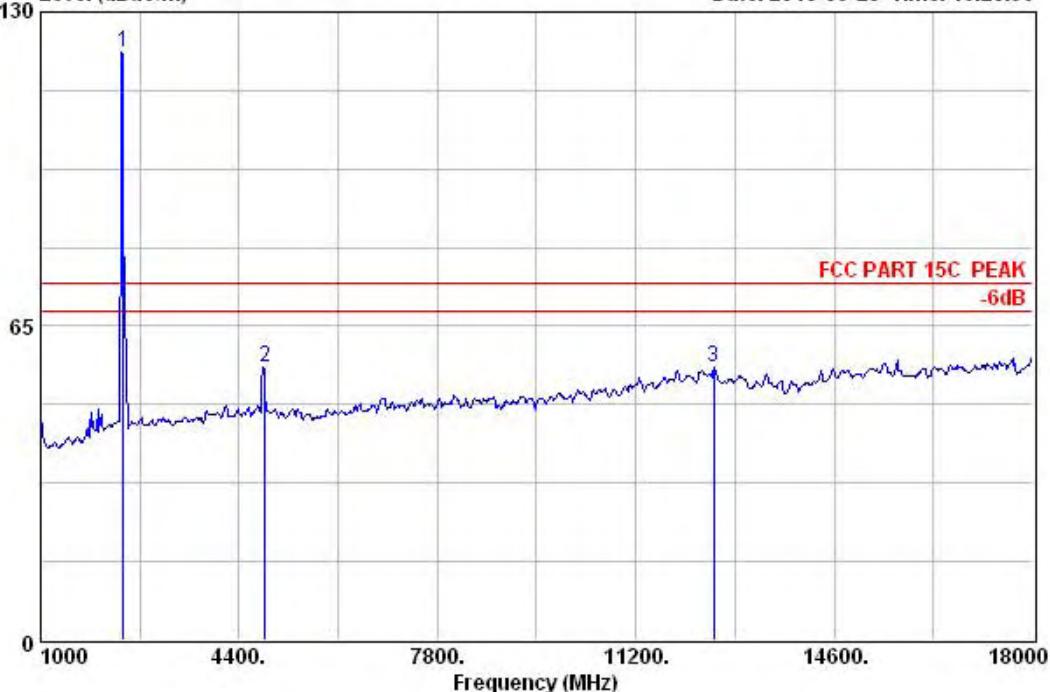
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
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Fax: +86-769-85991080

Data: 196

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

Date: 2010-03-25 Time: 16:20:36

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH1 2422MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2422.00	121.72	74.00	-47.72	87.97	31.52	2.23	Peak
2 4844.00	56.50	74.00	17.50	19.52	34.60	2.38	Peak
3 12543.00	56.47	74.00	17.53	13.59	40.03	2.85	Peak



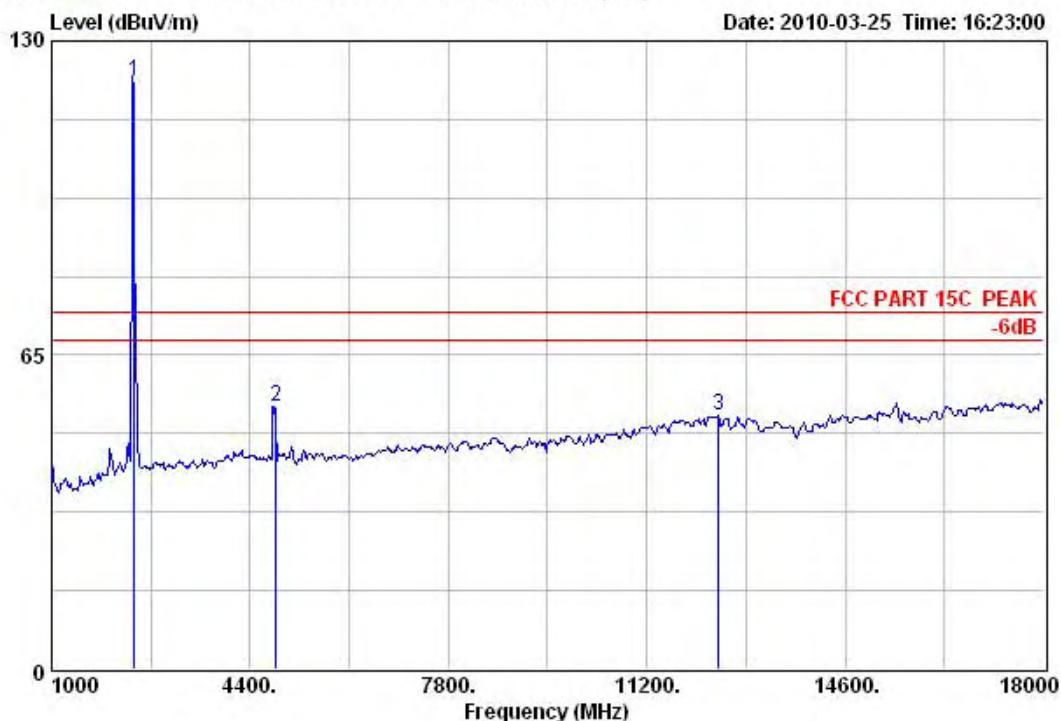
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Data: 197

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

Date: 2010-03-25 Time: 16:23:00



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH1 2422MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 2422.00	121.85	74.00	-47.85	88.10	31.52	2.23	Peak
2 4844.00	54.43	74.00	19.57	17.45	34.60	2.38	Peak
3 12424.00	52.43	74.00	21.57	9.61	39.97	2.85	Peak



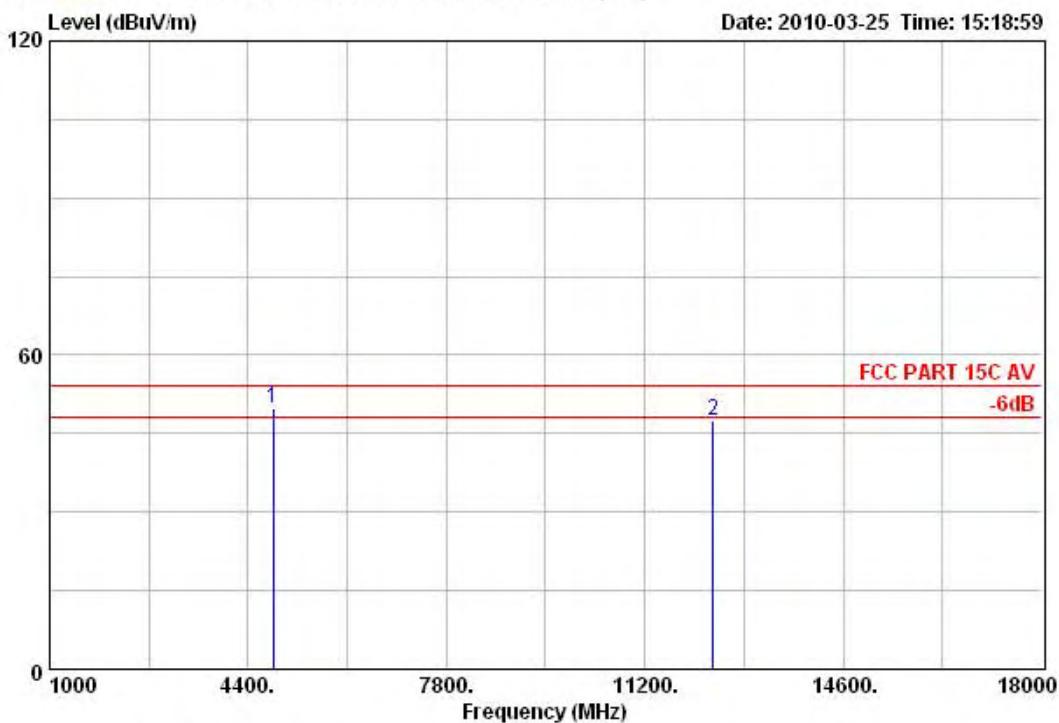
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Data: 198

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

Date: 2010-03-25 Time: 15:18:59



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH1 2412MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4824.00	49.74	54.00	4.26	12.77	34.59	2.38	Average
2 212373.00	47.53	54.00	6.47	4.74	39.95	2.84	Average



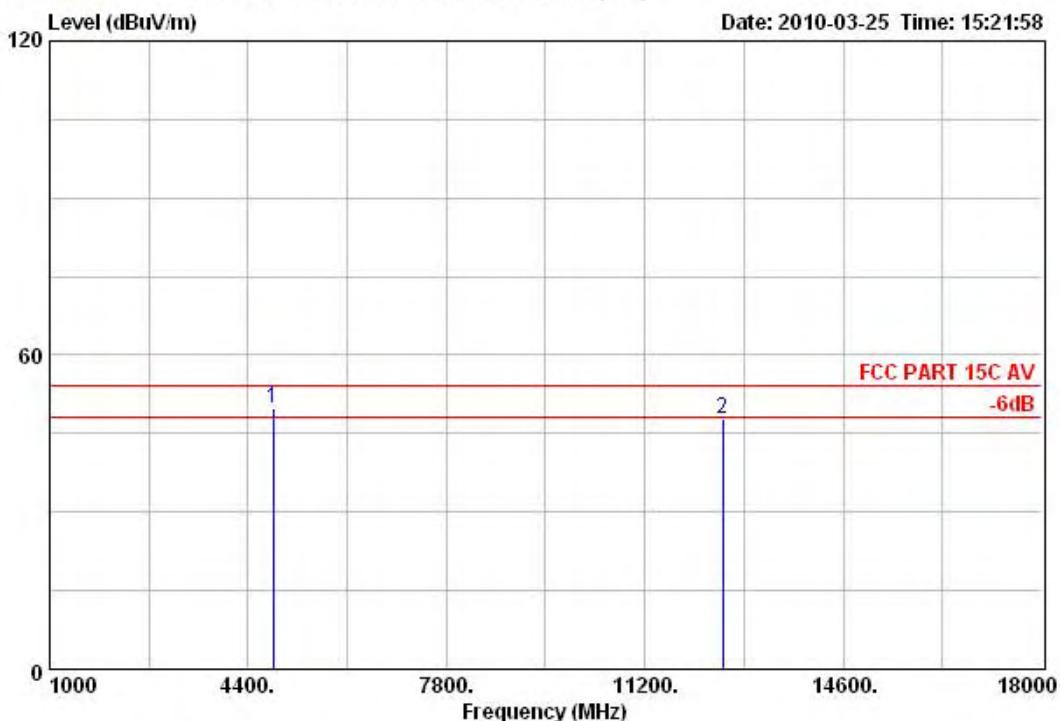
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Data: 199

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

Date: 2010-03-25 Time: 15:21:58



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH1 2412MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4824.00	49.94	54.00	4.06	12.97	34.59	2.38	Average
2 12543.00	47.84	54.00	6.16	4.96	40.03	2.85	Average



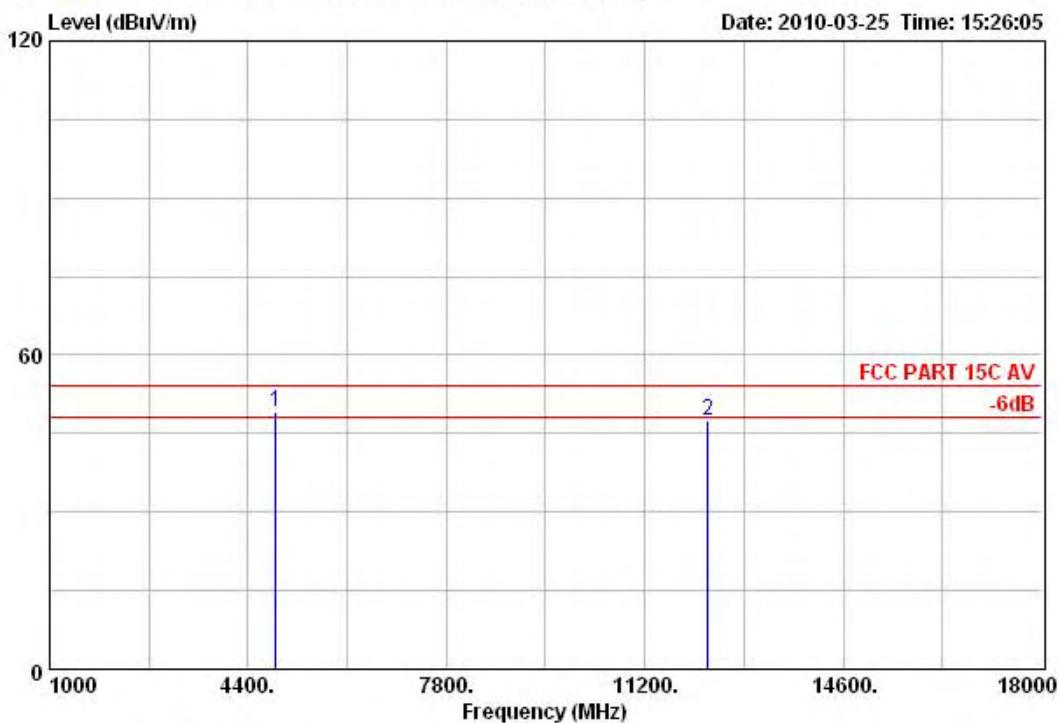
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Data: 200

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

Date: 2010-03-25 Time: 15:26:05



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	49.03	54.00	4.97	12.03	34.62	2.38	Average
21228.80	47.41	54.00	6.59	4.65	39.92	2.84	Average



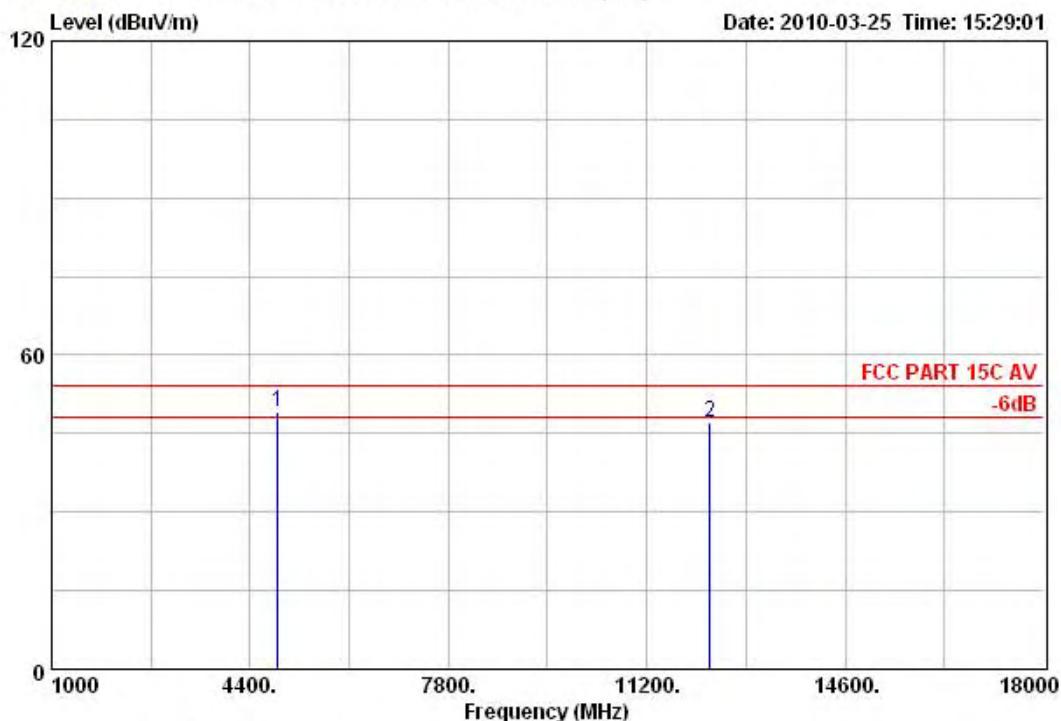
NS Technology

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Data: 201

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

Date: 2010-03-25 Time: 15:29:01



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	49.09	54.00	4.91	12.09	34.62	2.38	Average
21228.80	47.12	54.00	6.88	4.36	39.92	2.84	Average



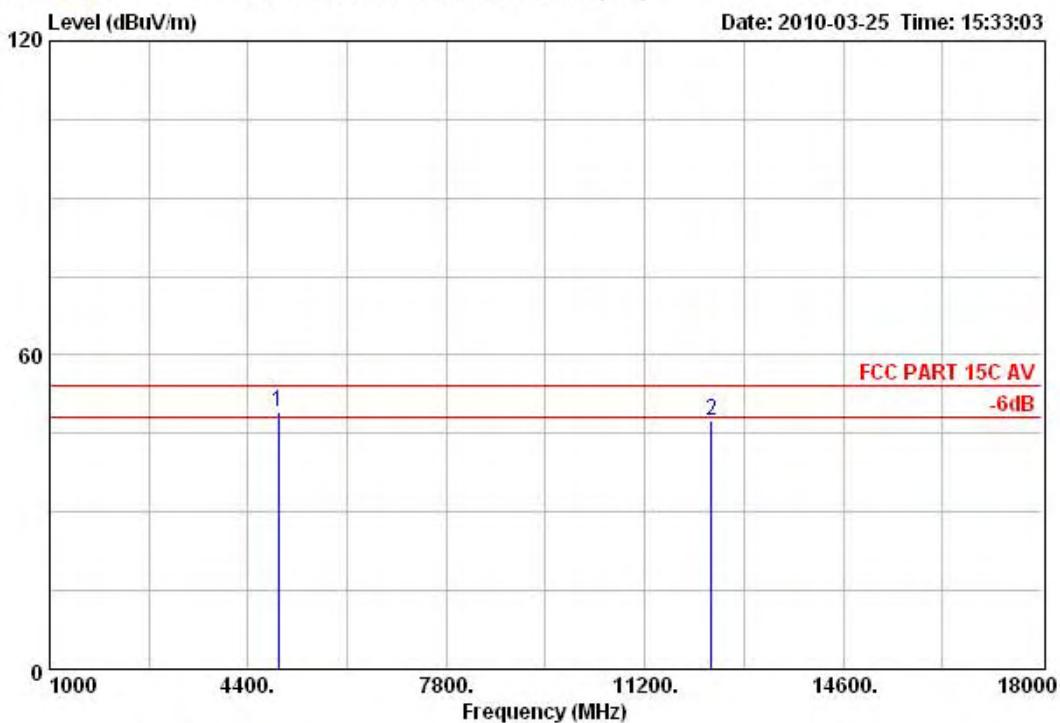
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Data: 202

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

Date: 2010-03-25 Time: 15:33:03



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4924.00	49.28	54.00	4.72	12.24	34.66	2.38	Average
212339.00	47.62	54.00	6.38	4.84	39.94	2.84	Average



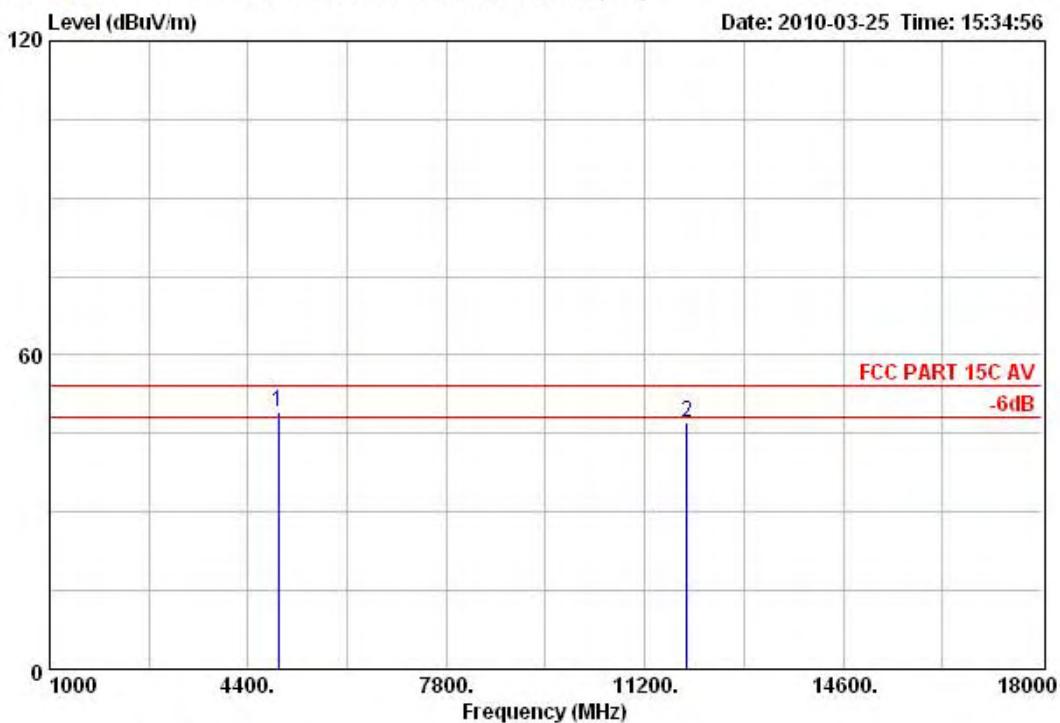
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Data: 203

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

Date: 2010-03-25 Time: 15:34:56



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4924.00	49.25	54.00	4.75	12.21	34.66	2.38	Average
211914.00	47.01	54.00	6.99	4.52	39.67	2.82	Average



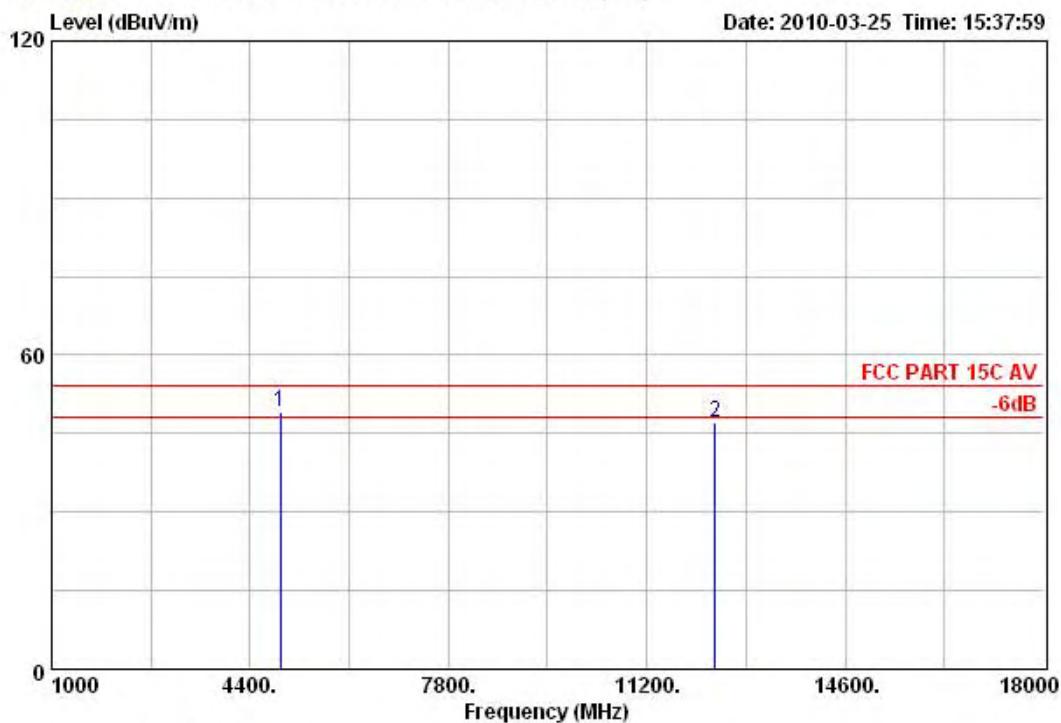
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Data: 204

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

Date: 2010-03-25 Time: 15:37:59



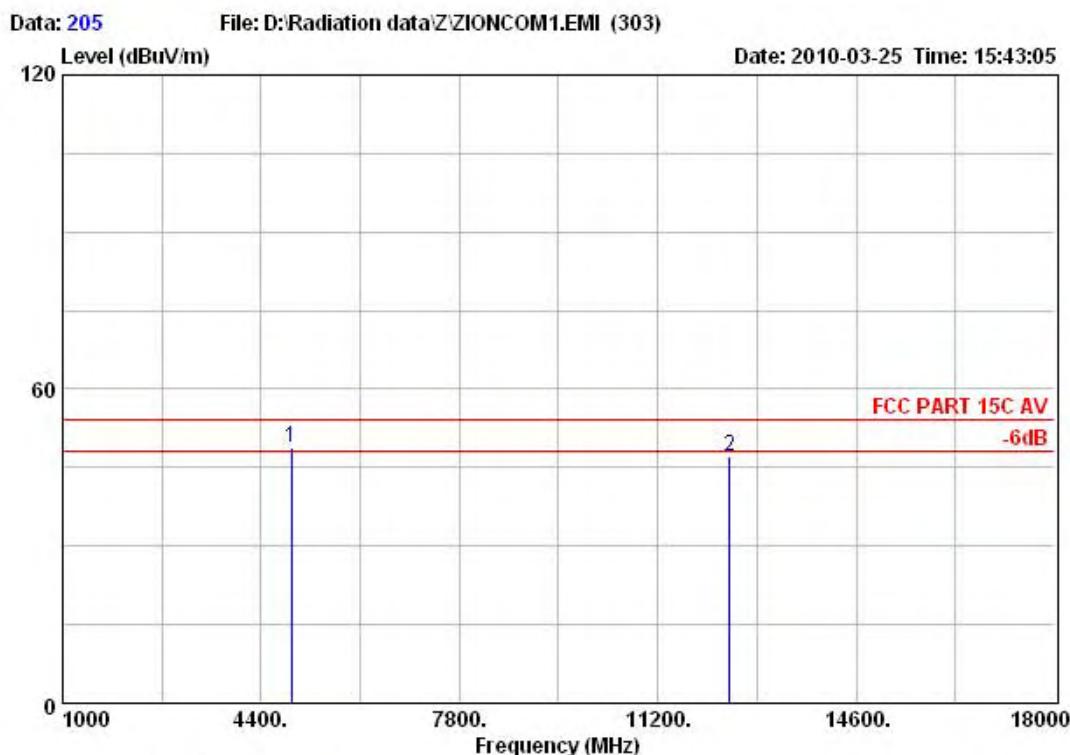
Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 Power : DC 5V from adapter input AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56% Press:101.51kPa
 Test Mode : TX Mode 802.11b CH11 2462MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4924.00	49.26	54.00	4.74	12.22	34.66	2.38	Average
2 212373.00	47.01	54.00	6.99	4.22	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 : Wireless Router
M/N : IPO494
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

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 4924.00	48.83	54.00	5.17	11.79	34.66	2.38	Average
212424.00	47.05	54.00	6.95	4.23	39.97	2.85	Average

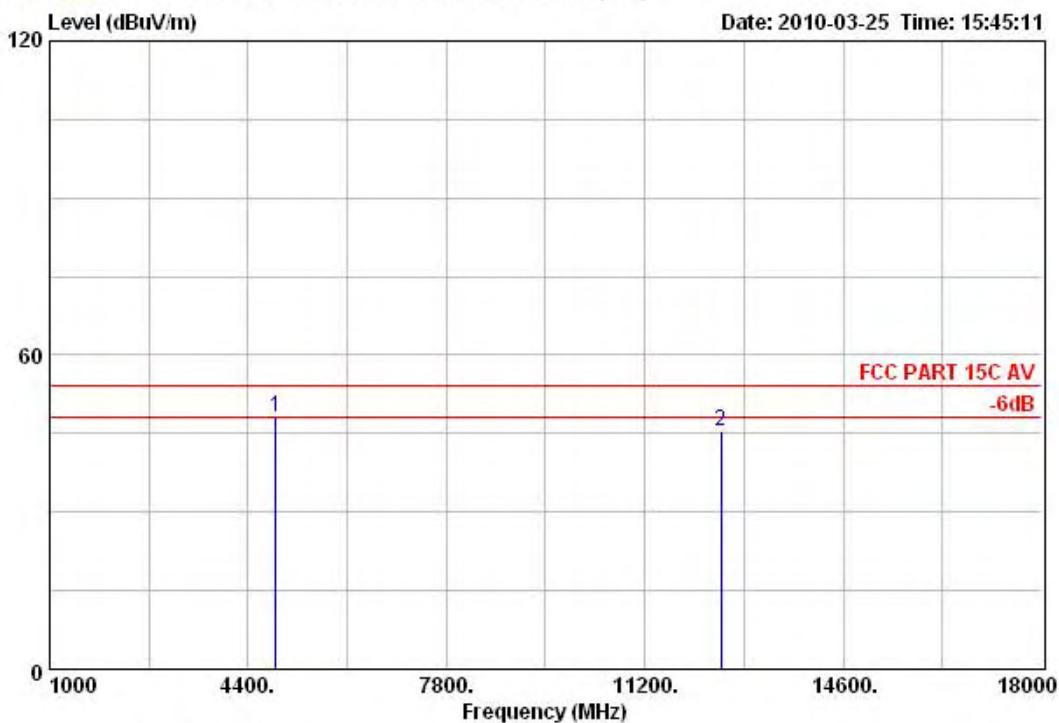
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Data: 206

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

Date: 2010-03-25 Time: 15:45:11



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	48.23	54.00	5.77	11.23	34.62	2.38	Average
21250.90	45.59	54.00	8.41	2.73	40.01	2.85	Average



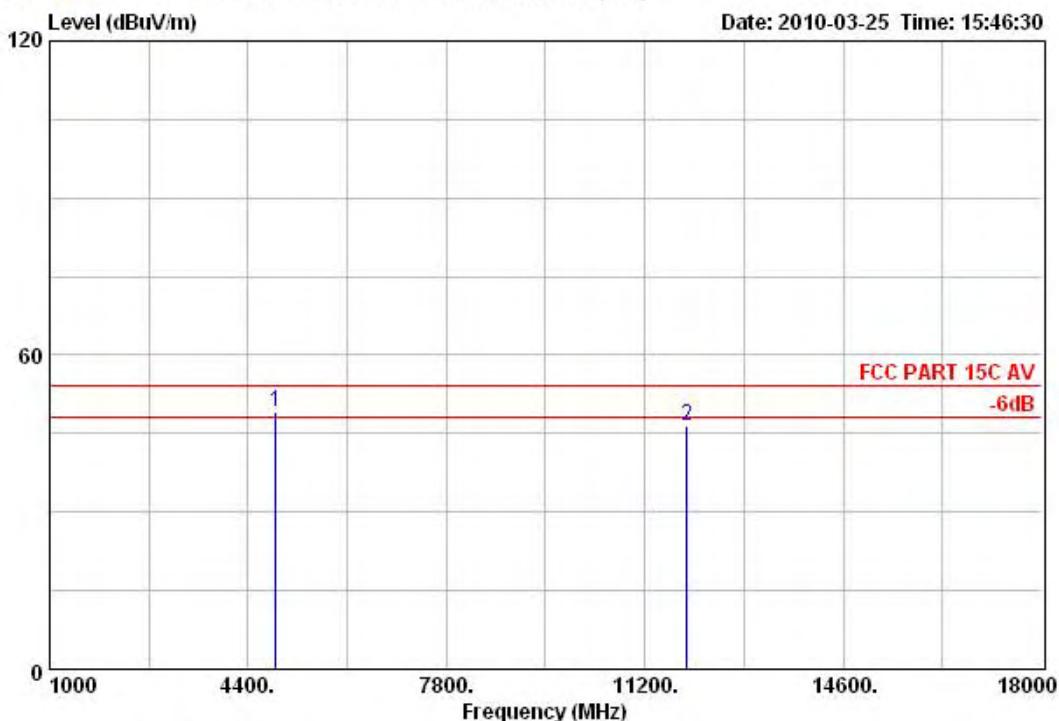
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Tel: +86-769-85935656
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Data: 207

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

Date: 2010-03-25 Time: 15:46:30



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	49.25	54.00	4.75	12.25	34.62	2.38	Average
211914.00	46.56	54.00	7.44	4.07	39.67	2.82	Average



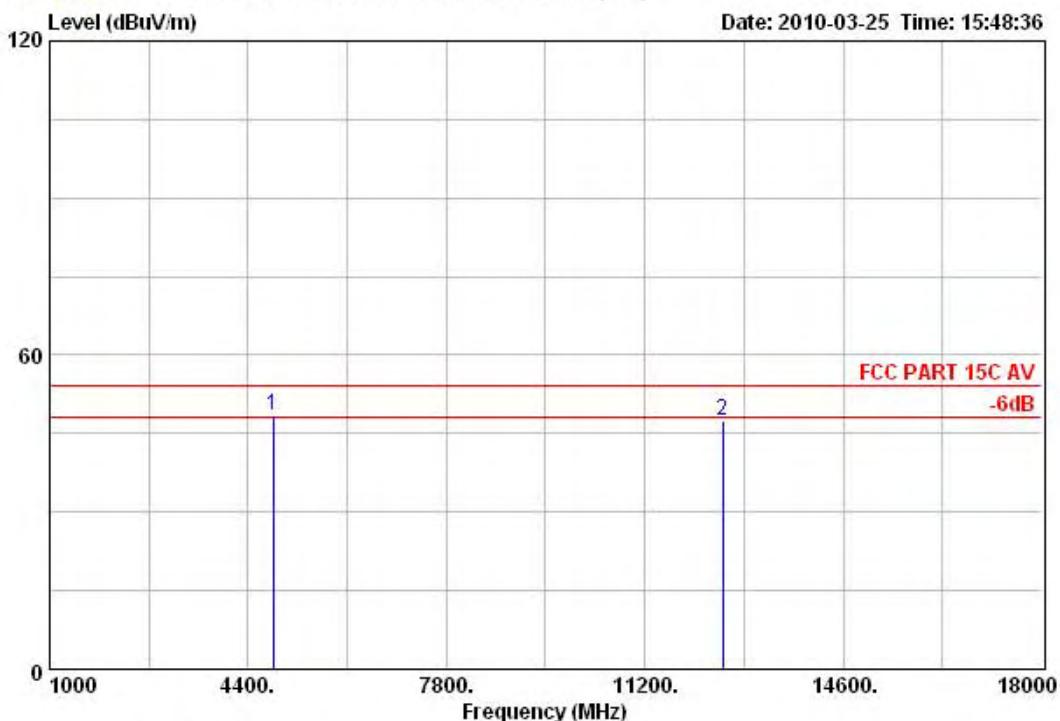
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Data: 208

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

Date: 2010-03-25 Time: 15:48:36



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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	Loss (dB/m)	Remark
<hr/>							
1 4824.00	48.50	54.00	5.50	11.53	34.59	2.38	Average
2 21254.30	47.47	54.00	6.53	4.59	40.03	2.85	Average

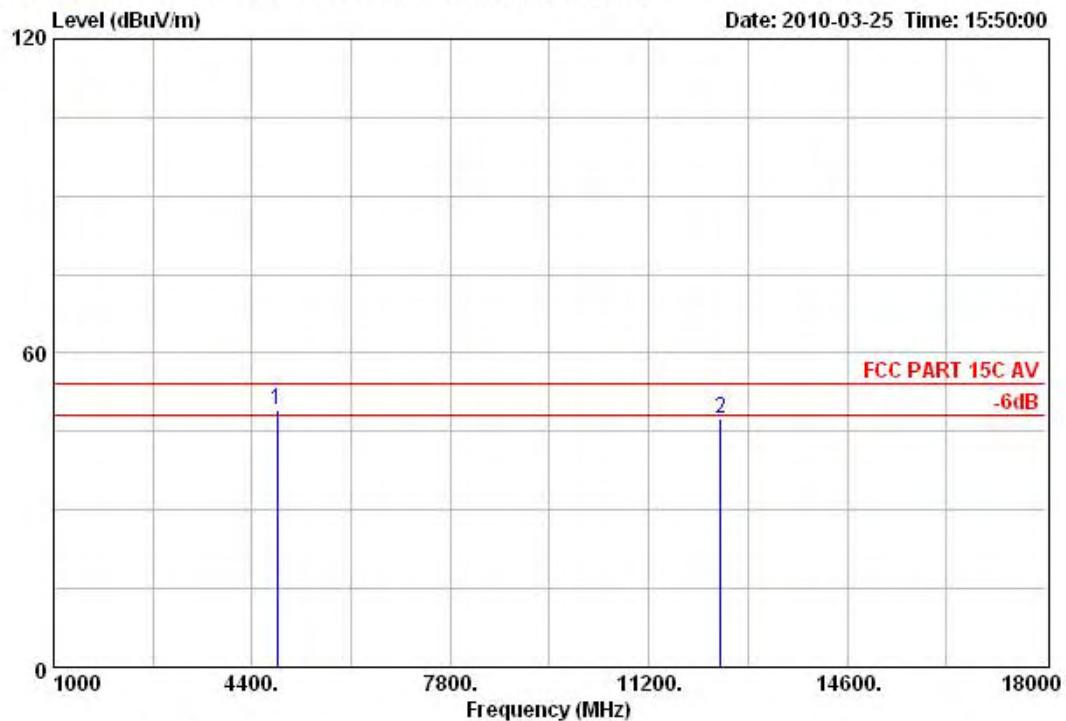


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Data: 209

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



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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	Loss (dB/m)	Remark
<hr/>							
1 4824.00	49.25	54.00	4.75	12.28	34.59	2.38	Average
212424.00	47.43	54.00	6.57	4.61	39.97	2.85	Average



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Data: 210 File: D:\Radiation data\ZIONCOM1.EMI (303)

Date: 2010-03-25 Time: 15:52:59

Level (dBuV/m)

120

60

0

FCC PART 15C AV -6dB

1

2

The figure is a spectrum analysis plot. The y-axis is labeled "Level (dBuV/m)" with major grid lines at 0, 60, 120, and 180. The x-axis is labeled "Frequency (MHz)" with major grid lines at 1000, 4400, 7800, 11200, 14600, and 18000. A red horizontal line is drawn at approximately 55 dBuV/m. Two vertical blue lines are present: one at 4400 MHz labeled "1" and another at 12200 MHz labeled "2". A red box labeled "FCC PART 15C AV -6dB" is located in the upper right area of the plot.

Test Site : 10m Chamber
Limit : FCC PART 15C AV
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
EUT : Wireless Router
M/N : IPO494
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 HT2Q CH1 2412MHz

Emission					Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB)	Remark
1 4824.00	50.25	54.00	3.75	13.28	34.59	2.38	Average
212373.00	47.53	54.00	6.47	4.74	39.95	2.84	Average

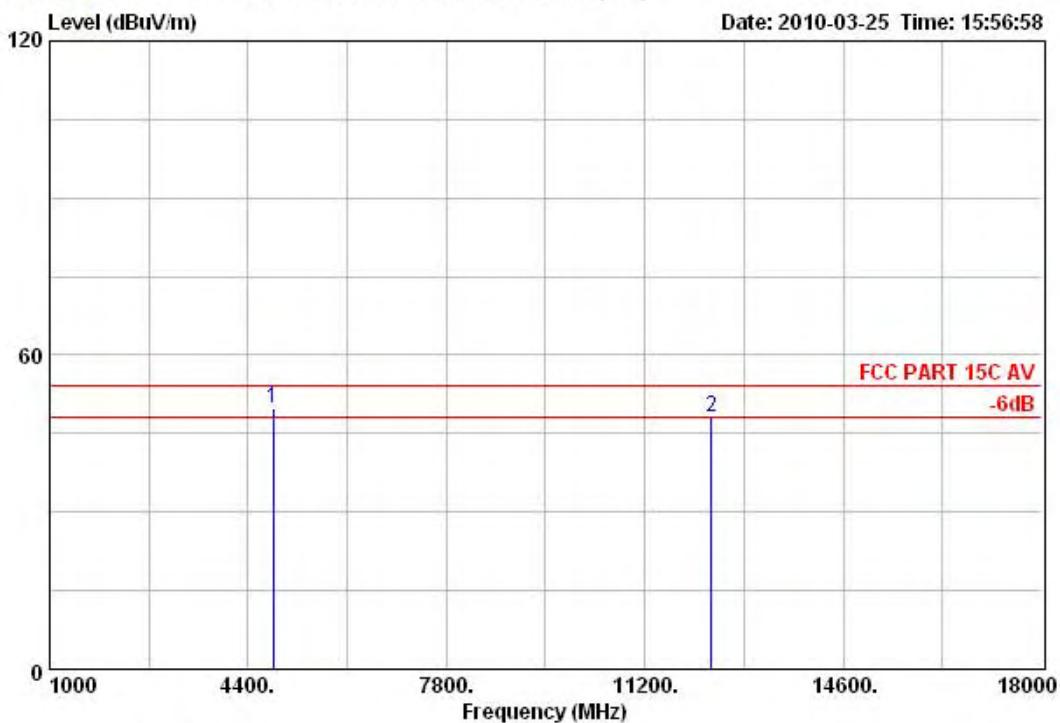
NS Technology

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

Data: 211

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

Date: 2010-03-25 Time: 15:56:58



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4824.00	49.82	54.00	4.18	12.85	34.59	2.38	Average
2 21233.90	48.01	54.00	5.99	5.23	39.94	2.84	Average



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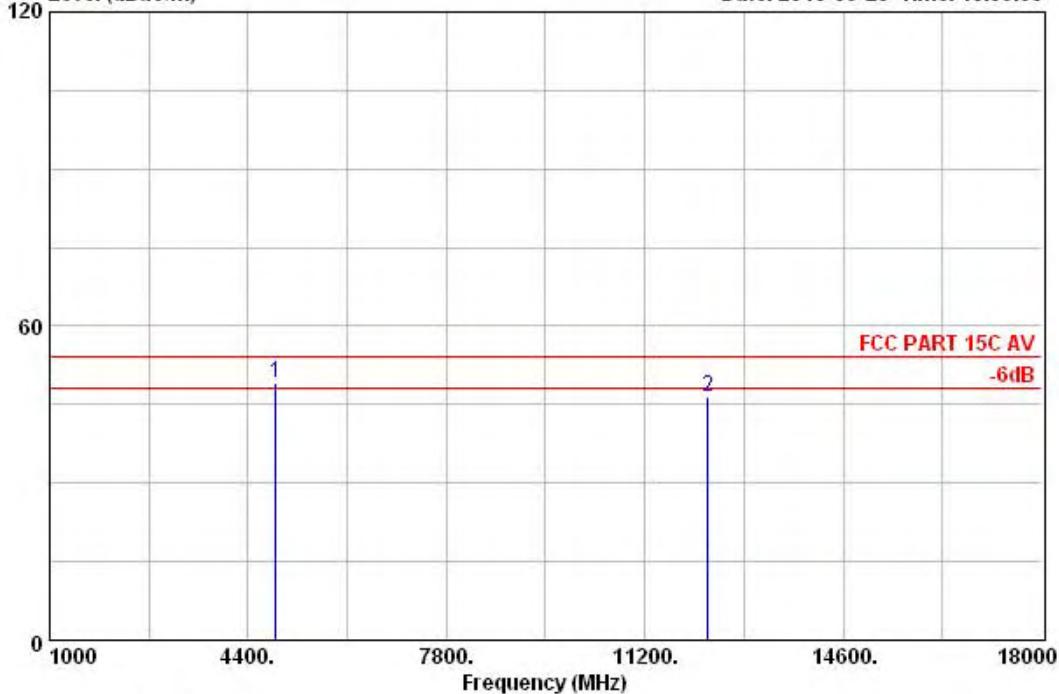
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
Tel: +86-769-85935656
Fax: +86-769-85991080

Data: 212

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

Date: 2010-03-25 Time: 15:59:05

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	49.03	54.00	4.97	12.03	34.62	2.38	Average
21228.80	46.41	54.00	7.59	3.65	39.92	2.84	Average



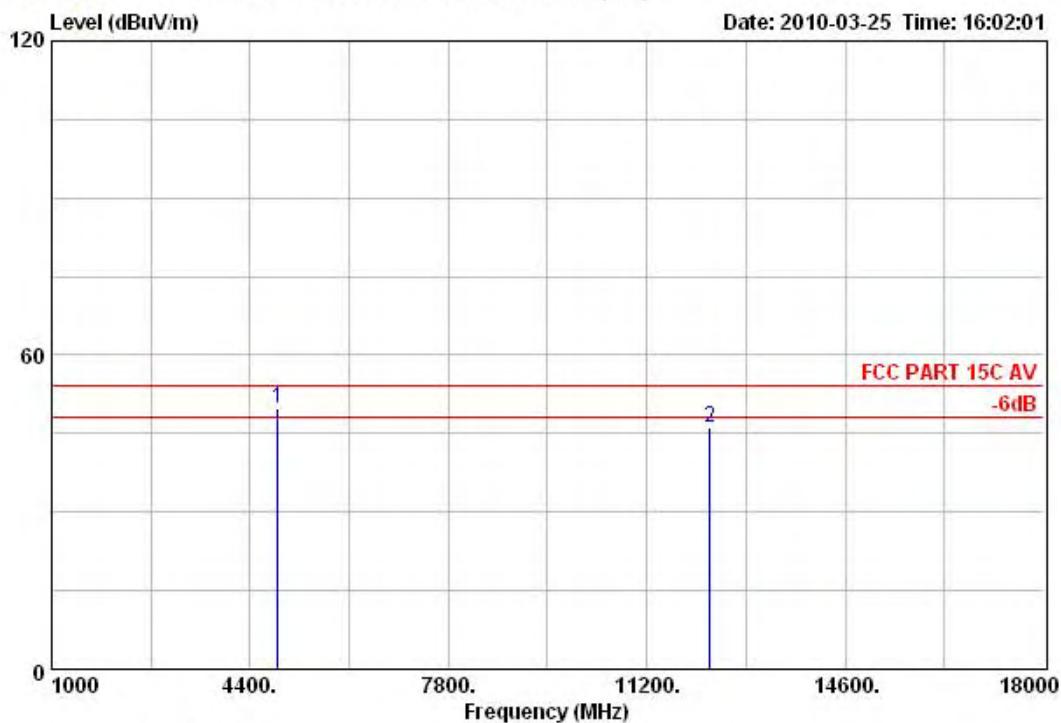
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Fax: +86-769-85991080

Data: 213

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

Date: 2010-03-25 Time: 16:02:01



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 CH6 2437MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	49.66	54.00	4.34	12.66	34.62	2.38	Average
2 21228.80	46.12	54.00	7.88	3.36	39.92	2.84	Average



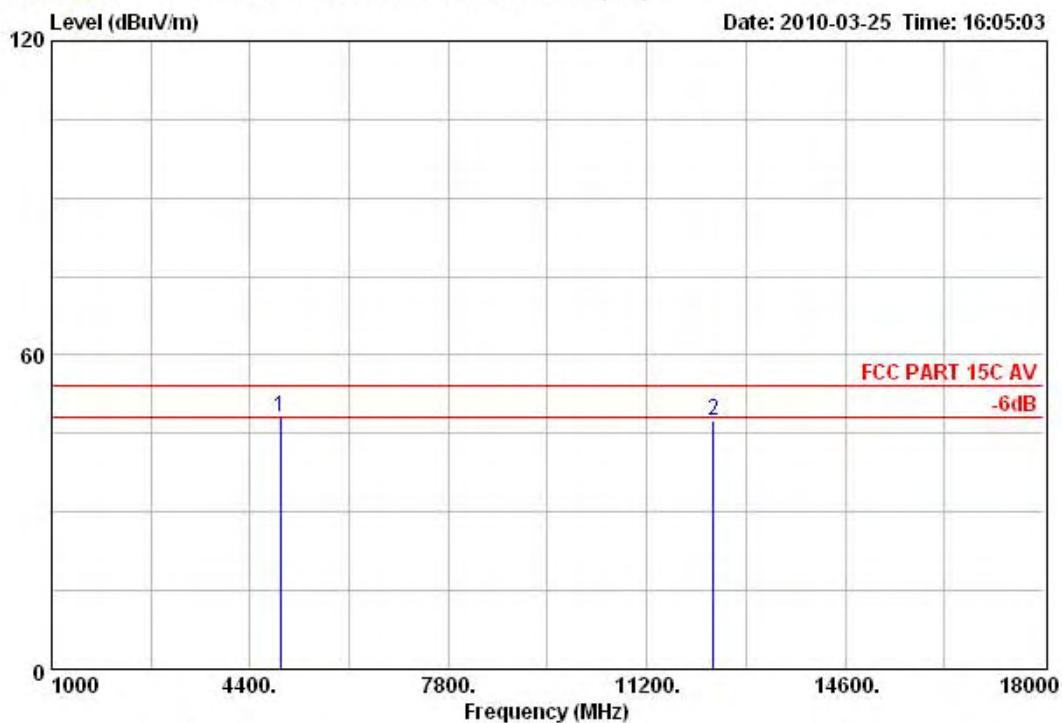
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Dongguan, Guangdong, China
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Fax: +86-769-85991080

Data: 214

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

Date: 2010-03-25 Time: 16:05:03



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4924.00	48.28	54.00	5.72	11.24	34.66	2.38	Average
21233.90	47.62	54.00	6.38	4.84	39.94	2.84	Average



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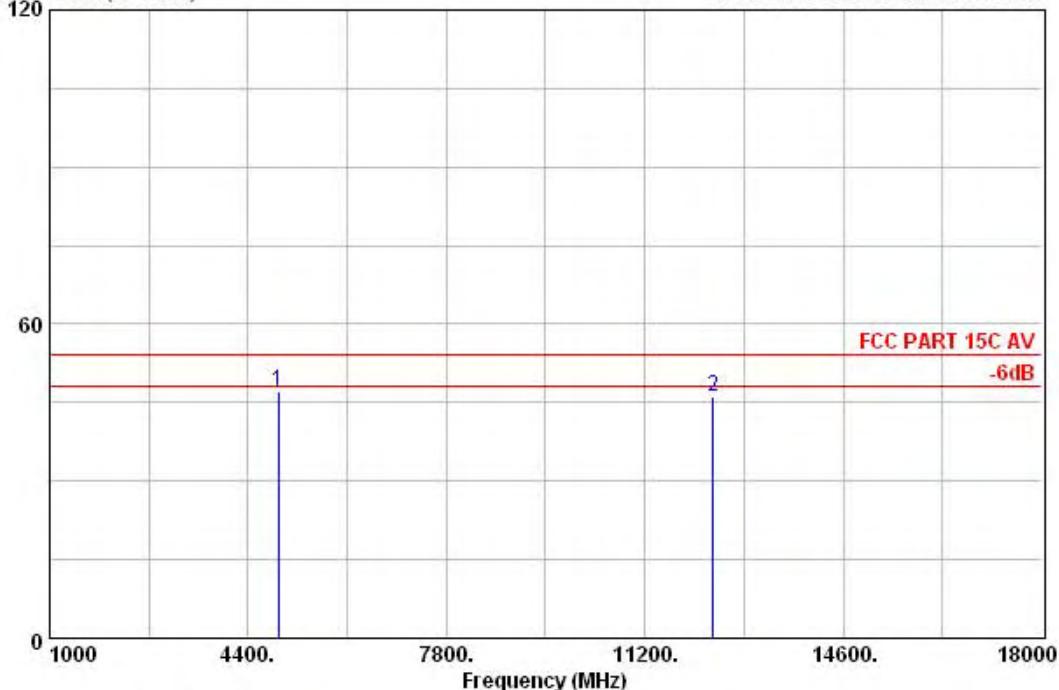
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
Tel: +86-769-85935656
Fax: +86-769-85991080

Data: 215

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

Date: 2010-03-25 Time: 15:34:56

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4924.00	47.25	54.00	6.75	10.21	34.66	2.38	Average
2 21237.30	46.02	54.00	7.98	3.23	39.95	2.84	Average



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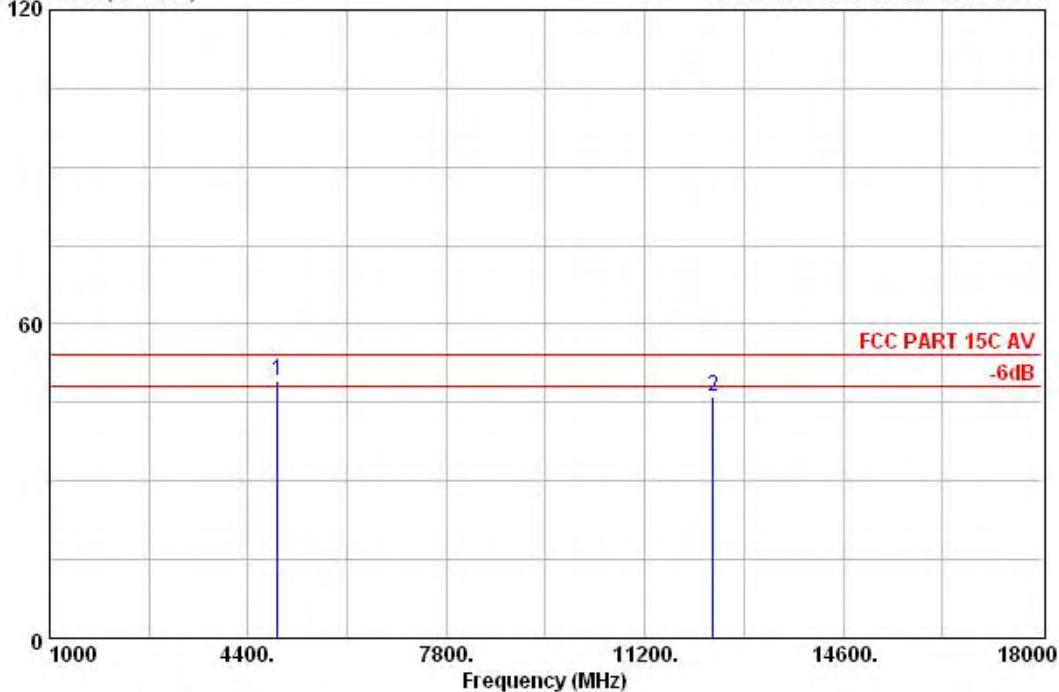
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
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Fax: +86-769-85991080

Data: 216

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

Date: 2010-03-25 Time: 16:08:59

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH7 2452MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4904.00	49.26	54.00	4.74	12.25	34.63	2.38	Average
2 21237.300	46.01	54.00	7.99	3.22	39.95	2.84	Average



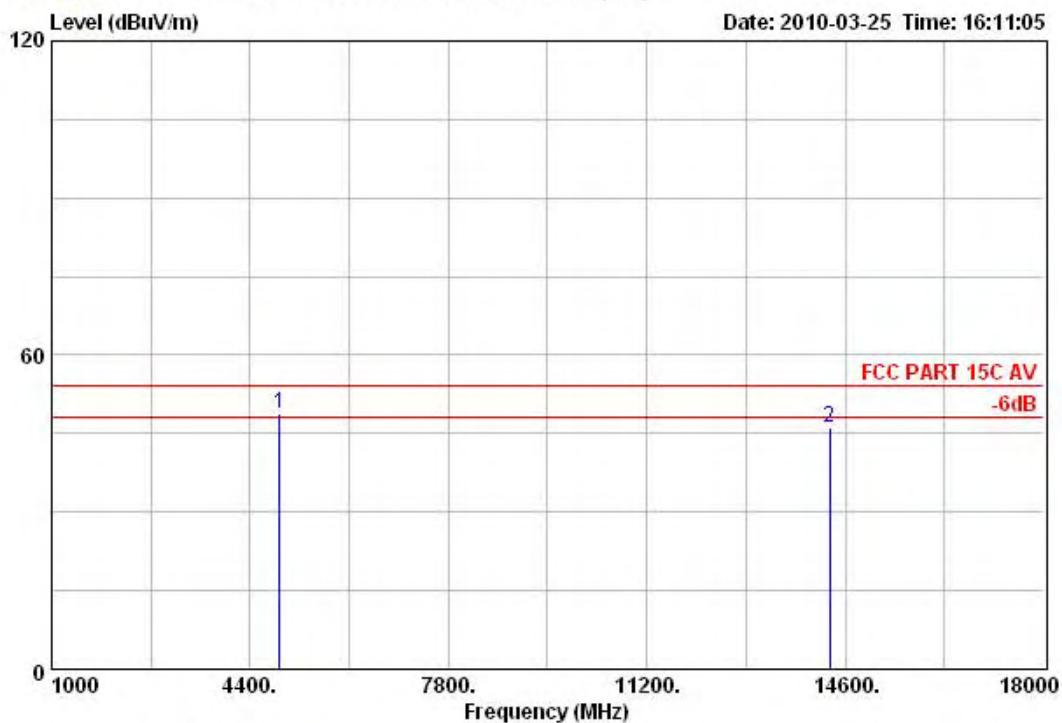
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Dongguan, Guangdong, China
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Fax: +86-769-85991080

Data: 217

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

Date: 2010-03-25 Time: 16:11:05



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH7 2452MHz

Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4904.00	48.83	54.00	5.17	11.82	34.63	2.38	Average
2 21432.80	46.06	54.00	7.94	2.68	40.42	2.96	Average



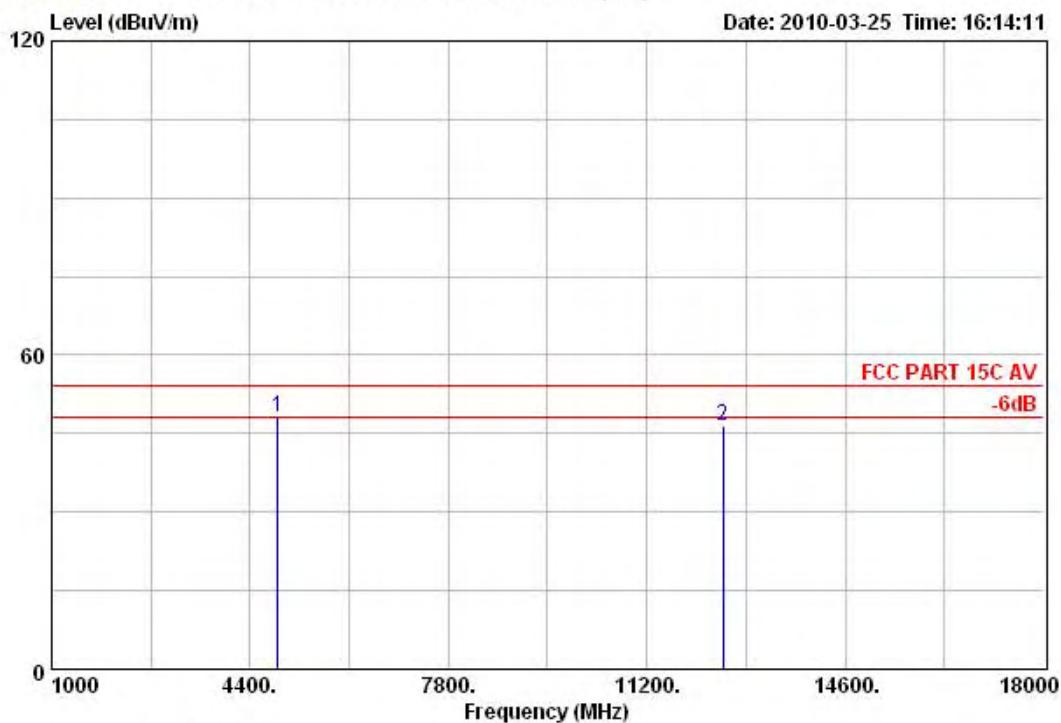
NS Technology

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Tel: +86-769-85935656
Fax: +86-769-85991080

Data: 218

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

Date: 2010-03-25 Time: 16:14:11



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH4 2437MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	48.07	54.00	5.93	11.07	34.62	2.38	Average
2 212509.00	46.59	54.00	7.41	3.73	40.01	2.85	Average



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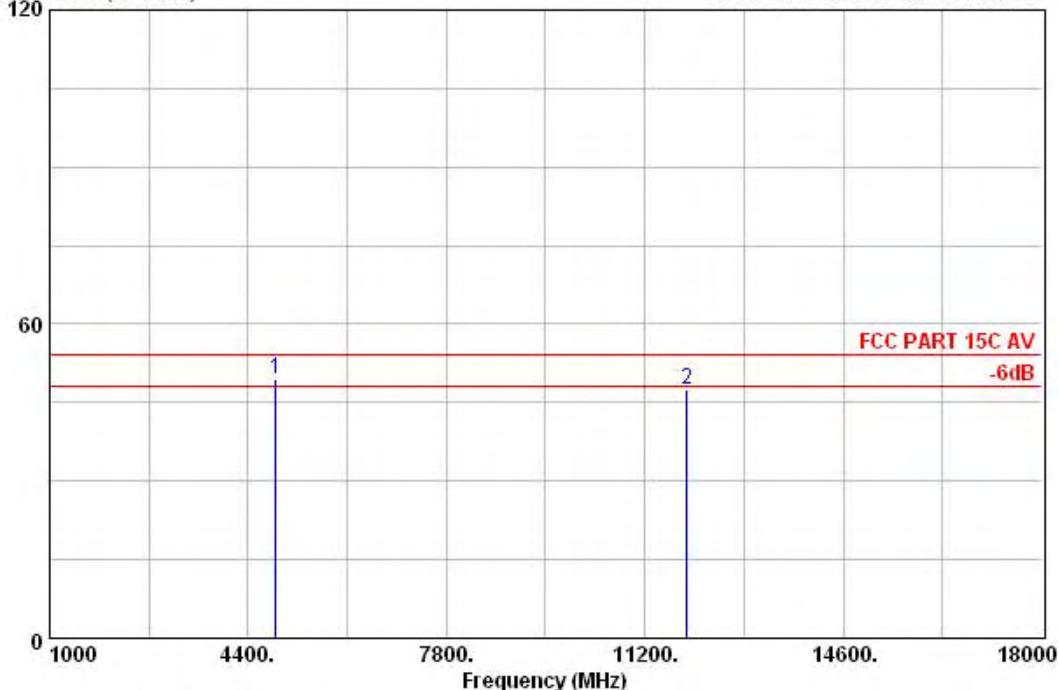
Chenwu Industrial Zone, Houjie Town,
Dongguan, Guangdong, China
Tel: +86-769-85935656
Fax: +86-769-85991080

Data: 219

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

Date: 2010-03-25 Time: 16:17:30

Level (dBuV/m)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH4 2437MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4874.00	49.52	54.00	4.48	12.52	34.62	2.38	Average
2 11914.00	47.56	54.00	6.44	5.07	39.67	2.82	Average

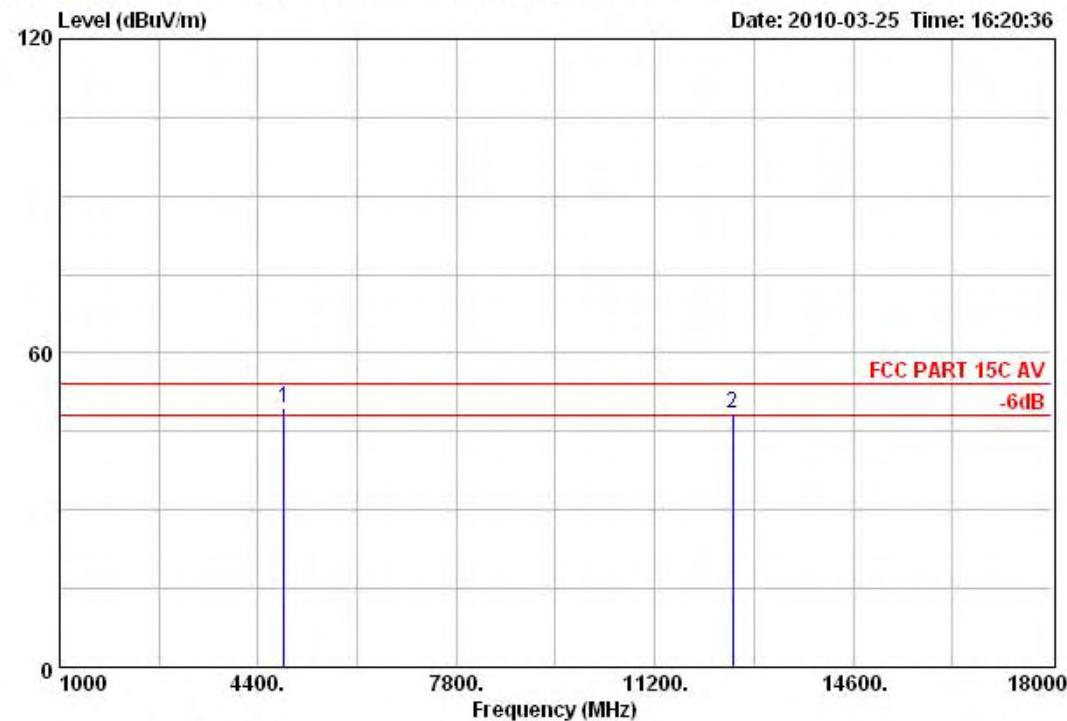


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Fax: +86-769-85991080

Data: 220

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



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : Wireless Router
 M/N : IPO494
 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 HT40 CH1 2422MHz

Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor	Loss (dB/m)	Remark
<hr/>							
1 4844.00	49.50	54.00	4.50	12.52	34.60	2.38	Average
2 12543.00	48.47	54.00	5.53	5.59	40.03	2.85	Average



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Fax: +86-769-85991080

Data: 221 File: D:\Radiation data\ZIONCOM1.EMI (303)

Level (dBuV/m) Date: 2010-03-25 Time: 16:23:00

120

60

0

FCC PART 15C AV -6dB

1

2

1000 4400. 7800. 11200. 14600. 18000

Frequency (MHz)

Test Site : 10m Chamber
Limit : FCC PART 15C AV
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
EUT : Wireless Router
M/N : IPO494
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 HT40 CH1 2422MHz

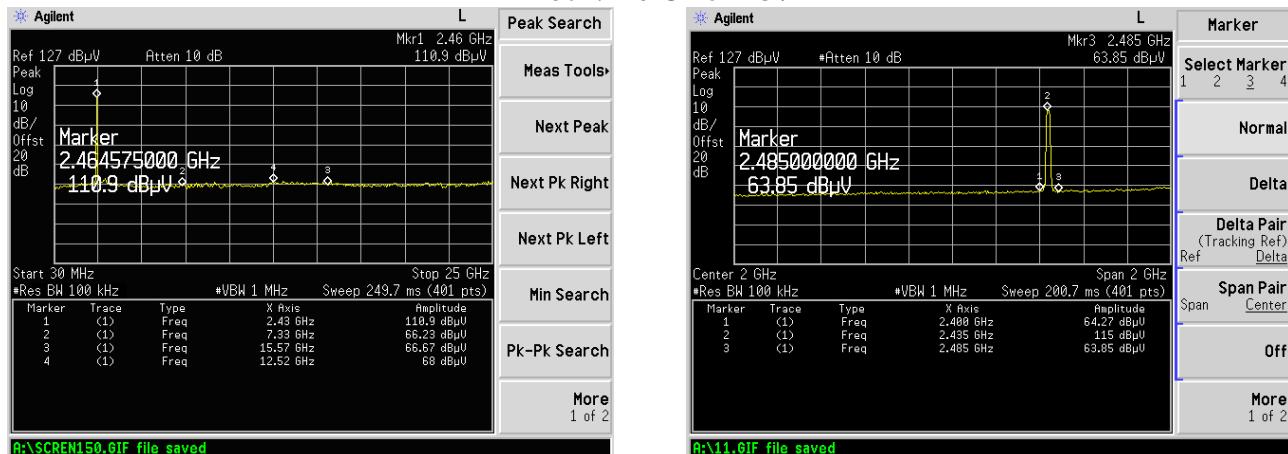
Emission				Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 4844.00	48.43	54.00	5.57	11.45	34.60	2.38	Average
212424.00	47.43	54.00	6.57	4.61	39.97	2.85	Average

Conducted emission test data

802.11b CH1 2412MHz



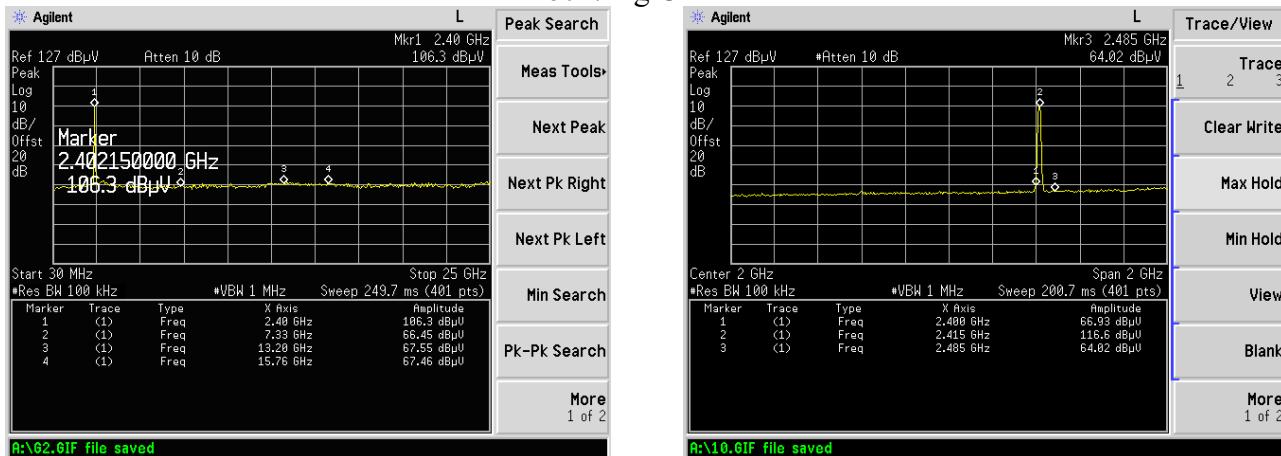
802.11b CH6 2437MHz



802.11b CH11 2462MHz



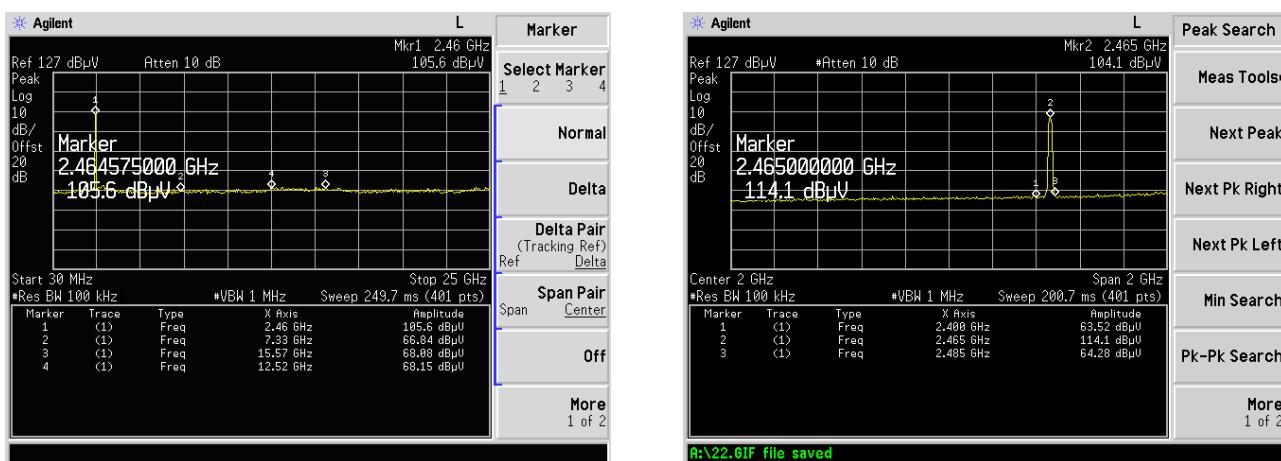
802.11g CH1 2412MHz



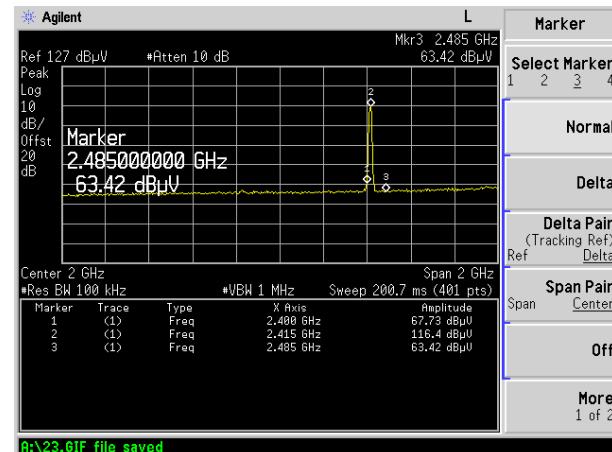
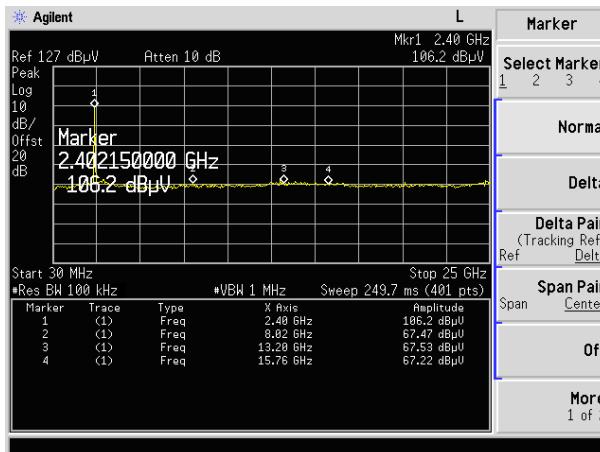
802.11g CH6 2437MHz



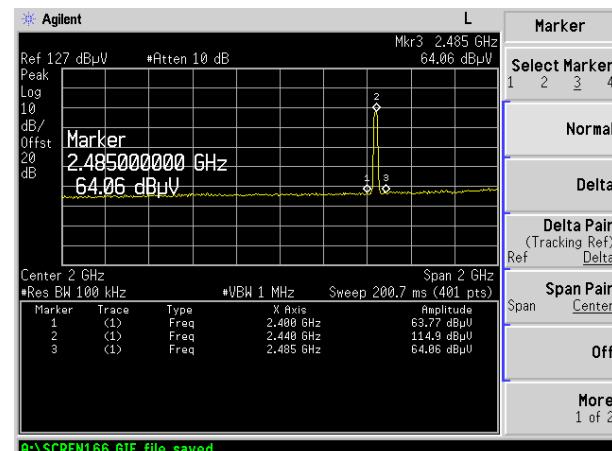
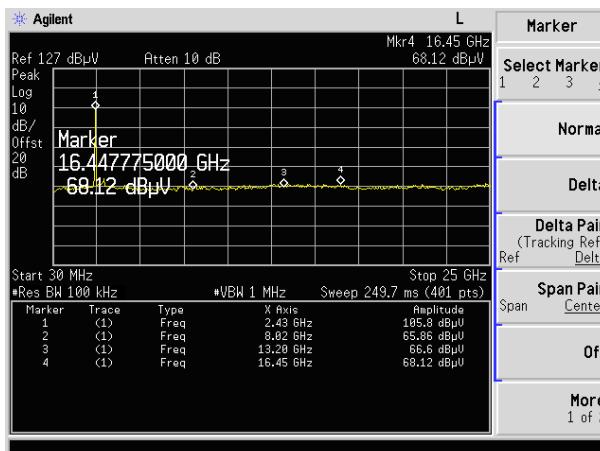
802.11g CH11 2462MHz



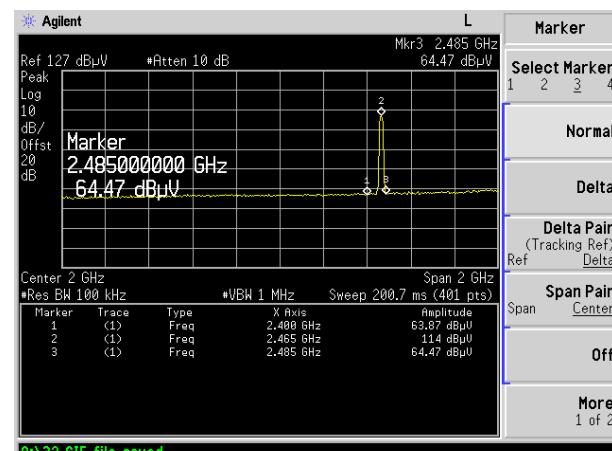
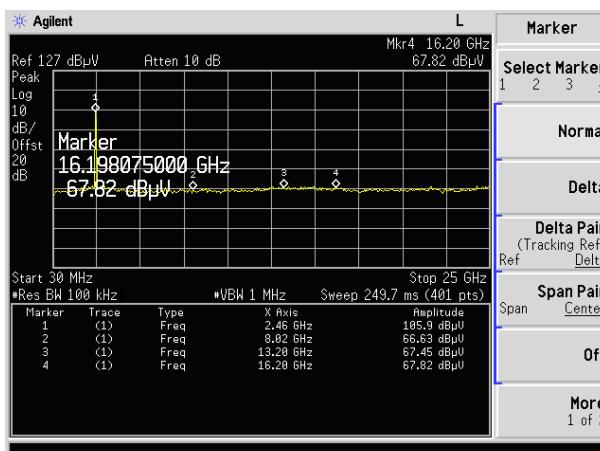
802.11n HT20 CH1 2412MHz



802.11n HT20 CH6 2437MHz



802.11n HT20 CH11 2462MHz



802.11n HT40 CH1 2422MHz



802.11n HT40 CH4 2437MHz



802.11n HT40 CH7 2452MHz

