

APPLICATION FOR CERTIFICATION

On Behalf of

TP-LINK Technologies Co., Ltd.

Wireless N Router

Model Number: TL-WR841ND; TL-WR841N

Prepared for : TP-LINK Technologies Co., Ltd.
Building 7, Second Part, Honghualing Industrial Zone,
Xili town, Nanshan District, Shenzhen, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F08187
Date of Test : Mar.17~May.27, 2008
Date of Report : May.28, 2008

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TEST REPORT CERTIFICATION

Applicant : TP-LINK Technologies Co., Ltd.
 Manufacturer : TP-LINK Technologies Co., Ltd.
 EUT Description : Wireless N Router
 (A) MODEL NO. : TL-WR841ND; TL-WR841N
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 12V From Adapter

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Mar.17~May.27, 2008

Prepared by :

Selina Liu
 Selina Liu / Assistant

Reviewer :

Jamy Yu
 Jamy Yu / Senior Engineer



信基科技(深圳)有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature:

Ken Lu 7/8 08

Approved & Authorized Signer :

Ken Lu / Deputy Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003 KDB58074	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003 KDB58074	PASS
6dB Bandwidth Test	FCC Part 15: 15.247 KDB58074	PASS
Output Power Test	FCC Part 15: 15.247 KDB58074	PASS
Band Edge Compliance Test	FCC Part 15: 15.247 KDB58074	PASS
Power Spectral Density Test	FCC Part 15: 15.247 KDB58074	PASS
MPE ESTIMATION	FCC Part 2: 2.1093	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name	:	Wireless N Router
Model Number	:	TL-WR841ND; TL-WR841N
		The differences between them are: TL-WR841N router with two fixed antennas and The TL-WR841ND router with two detachable antennas. According to technical characteristic, this difference only influence radiated emissions from 30MHz to 1GHz. So only the radiated emissions from 30MHz to 1GHz were tested with two models, and the other items were only tested with TL-WR841ND.
Operation frequency	:	IEEE 802.11b/g ,802.11n HT20:2412MHz---2462MHz IEEE802.11n HT40:2422MHz-----2452MHz
Channel Number	:	IEEE 802.11b/g, 802.11n HT20:11 Channels IEEE 802.11n HT40 :7 Channels
Modulation Technology	:	DSSS for IEEE 802.11b and OFDM for IEEE 802.11g OFDM for IEEE802.11n
Data Rate	:	IEEE 802.11b: 11/5.5/2/1Mbps. 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, 6.5 Mbps IEEE 802.11n HT40 : 270, 243 ,216, 162, 135, 121.5, 108, 81, 54,40.5, 27, 13.5Mbps
Output power	:	24.36dBm(Maximum measured)
Power	:	DC 12V from adapter AC 120V/60Hz
Antenna Assembly Gain	:	3dBi (maximum)
Applicant	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan District, Shenzhen, China
Manufacturer	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan District, Shenzhen, China
Power Adapter	:	Manufacture: LEADER ELECTRONICS INC. M/N: MT12-4120100-A1 Cable: Unshielded, Detectable, 2.0m
Date of Test	:	Mar.17~May.27, 2008

Date of Receipt	:	Mar.20, 2008
Sample Type	:	Prototype production

2.2. Tested Supporting System Details

2.2.1. NOTEBOOK

M/N : PP09S
 S/N : N/A
 Manufacturer : DELL
 Power Adaptor : Manufacturer: DELL,
 M/N: LA65NS1-00
 Cable: Unshielded, Detachable, 4.0m
 (Bond one ferrite core)

2.2.2. CABLE

Lan Cable(a) : Unshielded, Detachable, 10m
 Lan Cable(b) : Unshielded, Detachable, 1.5m

2.3. Data rate VS power

Mode	Data rate(Mbps)	CH	chain 1	chain2	Result
			Level(dBm)	Level(dBm)	Total Power (dBm)
11b	1	CH6	17.81	17.72	20.78
	2	CH6	17.53	17.56	20.56
	5.5	CH6	17.37	17.28	20.34
	11	CH6	16.78	16.9	19.85
11g	6	CH6	19.41	19.84	22.64
	9	CH6	19.10	19.25	22.19
	12	CH6	19.11	19.24	22.19
	18	CH6	18.79	18.93	21.87
	24	CH6	19.24	19.23	22.25
	36	CH6	19.35	19.56	22.47
	48	CH6	19.38	19.42	22.41
	54	CH6	19.20	19.23	22.23
11n HT20	130	CH6	19.50	19.42	22.47
	117	CH6	19.45	19.71	22.59
	104	CH6	19.23	19.38	22.32
	78	CH6	19.14	19.35	22.26
	65	CH6	19.28	19.65	22.48
	58.5	CH6	19.21	19.74	22.49
	52	CH6	19.47	19.28	22.39
	39	CH6	19.50	19.27	22.40

	26	CH6	19.38	19.14	22.27
	19.5	CH6	19.22	19.32	22.28
	13	CH6	19.05	19.41	22.24
	6.5	CH6	19.69	19.9	22.81
11N HT40	13.5	CH4	21.73	20.93	24.36
	27	CH4	21.57	20.47	24.07
	40.5	CH4	21.45	20.56	24.04
	54	CH4	21.34	20.63	24.01
	81	CH4	21.56	20.79	24.20
	108	CH4	21.70	20.18	24.02
	121.5	CH4	21.45	20.47	24.00
	135	CH4	21.09	20.59	23.86
	162	CH4	21.43	20.8	24.14
	216	CH4	21.44	20.45	23.98
	243	CH4	21.46	20.39	23.97
	270	CH4	21.52	20.54	24.07
When IEEE 802.11b's data rate was 1Mbps ; IEEE 802.11g's data rate is 6Mbps,IEEE 802.11n HT20's data rate is 6.5Mbps;IEEE802.11n HT40's data rate is 13.5Mbps the EUT have maximum output power and all the test was performed in this data rate set.					

2.4.Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park,Nantou,
Shenzhen, Guangdong, China

3m Anechoic Chamber : Jun. 13, 2006 File on Federal
Communication Commission
Registration Number: 90454

3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal
Communication Commission
Registration Number: 794232

EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2004

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2007

2.5.Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Emission Test	1.22dB

2.	Uncertainty for Radiated Emission Test<1GHz	4.62dB
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB
4.	Uncertainty for Frequency measure	0.42×10^{-6}
5.	Uncertainty for conducted power measure	0.112

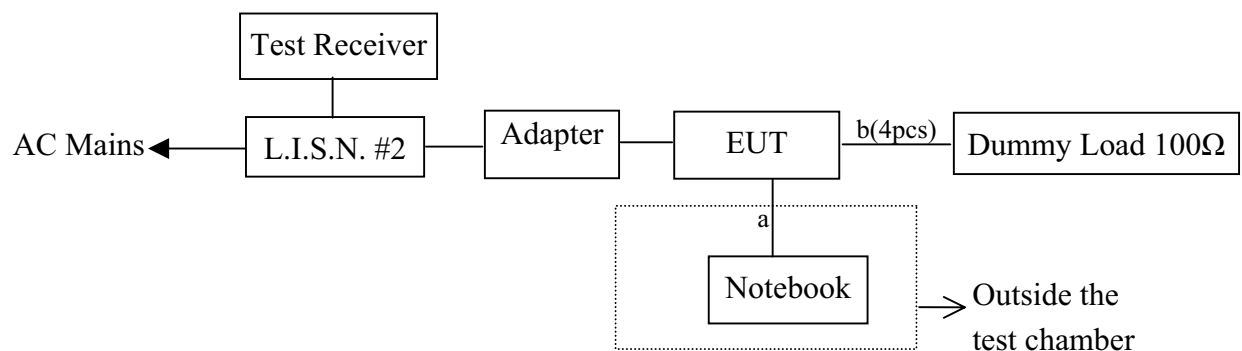
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.19, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 11, 07	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 11, 07	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jan.09, 08	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Jan.09, 08	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jan.09, 08	1/2 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



a: Lan Cable 10m

b: Lan Cable 1m

(EUT: Wireless N Router)

3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Wireless N Router (EUT)

Model Number : TL-WR841ND
 Serial Number : N/A
 Manufacturer : TP-LINK Technologies Co., Ltd.

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2..

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Notebook ran the Control program with a LAN port of the EUT through Lan cable, which can make the EUT work in test mode (TX mode)

3.5.4. The other ports of the EUT connected with 100Ω Dummy Load.

3.6. Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes was tested and selected (mode 1) to read Q.P values and average values, all the test results are listed in next pages.

EUT: Wireless N Router Model No. : TL-WR841ND

Test Date: Mar.31, 2008 Temperature: 23℃ Humidity: 54%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		VA	VB
1.	TX Mode	# 2	# 1

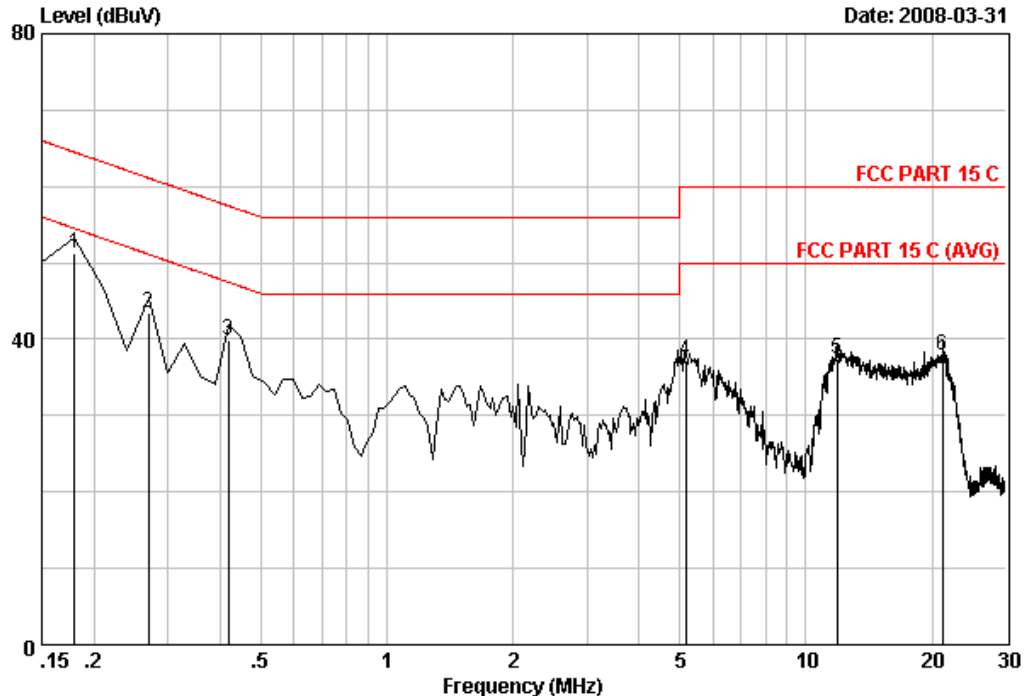


NO.6 Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
Nantou, Shenzhen,Guang dong, China.
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 2

File: D:\emc 002\DATA\2008 Report\T\TP-LINK\ACS8Q343.EMI (3)

Date: 2008-03-31



Site no :AUDIX No.1 Conduction Data no :2
Dis./Ant. :-- KNW407 VA (1#)
Limit :FCC PART 15 C
Env./Ins. :Temp:23' Humi:54% ESHS10 Engineer :Jamy
EUT :Wireless N Router M/N:TL-WR841ND
Power Rating :DC 12V From adapter 120V/60Hz
Test Mode :Tx mode
Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.18	10.15	40.90	51.23	64.49	13.26	QP
2	0.27	0.13	10.15	33.24	43.52	61.14	17.62	QP
3	0.42	0.08	10.14	29.72	39.94	57.47	17.53	QP
4	5.16	0.10	10.19	26.98	37.27	60.00	22.73	QP
5	11.88	0.23	10.26	26.97	37.46	60.00	22.54	QP
6	21.19	0.48	10.38	27.13	37.99	60.00	22.01	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

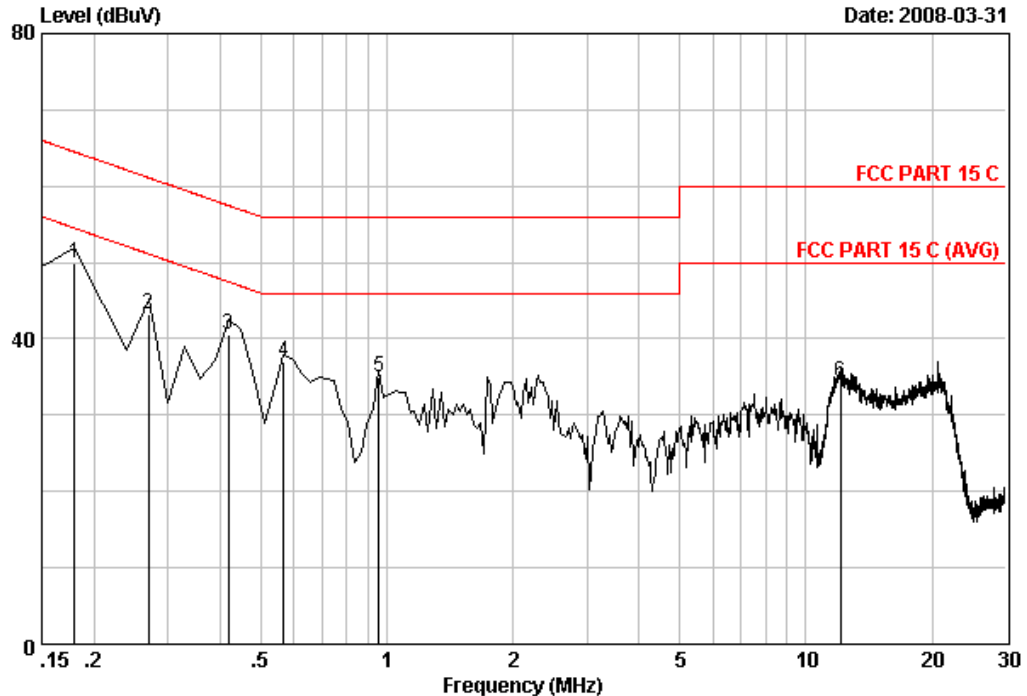


NO.6 Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
Nantou, Shenzhen,Guang dong, China.
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 1

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Date: 2008-03-31



Site no :AUDIX No.1 Conduction Data no :1
Dis./Ant. :-- KNW407 VB (1#)
Limit :FCC PART 15 C
Env./Ins. :Temp:23' Humi:54% ESHS10 Engineer :Jamy
EUT :Wireless N Router M/N:TL-WR841ND
Power Rating :DC 12V From adapter 120V/60Hz
Test Mode :Tx mode
Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.19	10.15	39.62	49.96	64.49	14.53	QP
2	0.27	0.13	10.15	32.90	43.18	61.14	17.96	QP
3	0.42	0.08	10.14	30.26	40.48	57.47	16.99	QP
4	0.57	0.05	10.14	26.70	36.89	56.00	19.11	QP
5	0.96	0.04	10.15	24.80	34.99	56.00	21.01	QP
6	12.09	0.22	10.26	23.77	34.25	60.00	25.75	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

The following test equipments are used during the radiated emission test:

4.1.1. For Anechoic Chamber

Frequency rang: 30~1000MHz

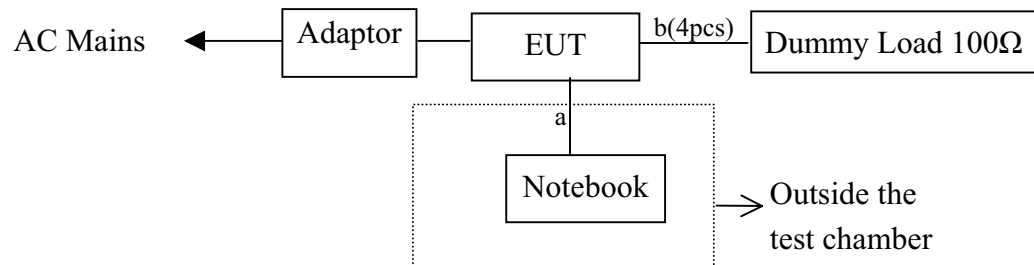
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.20.07	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 11, 07	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	Dec.19, 07	1 Year
4.	Amplifier	HP	8447D	2944A04738	Jan.09, 08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jan.09, 08	1/2 Year
7.	RF Cable	JINGCHENG	JBV400	3# Chamber No.2	Jan.09, 08	1/2 Year
8.	RF Cable	JINGCHENG	JBV400	3# Chamber No.3	Jan.09, 08	1/2 Year
9.	RF Cable	JINGCHENG	JBV400	3# Chamber No.4	Jan.09, 08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Jan.09, 08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	Antenna	EMCO	3116	00060088	May 28, 07	1 Year
5.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

4.2. Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators

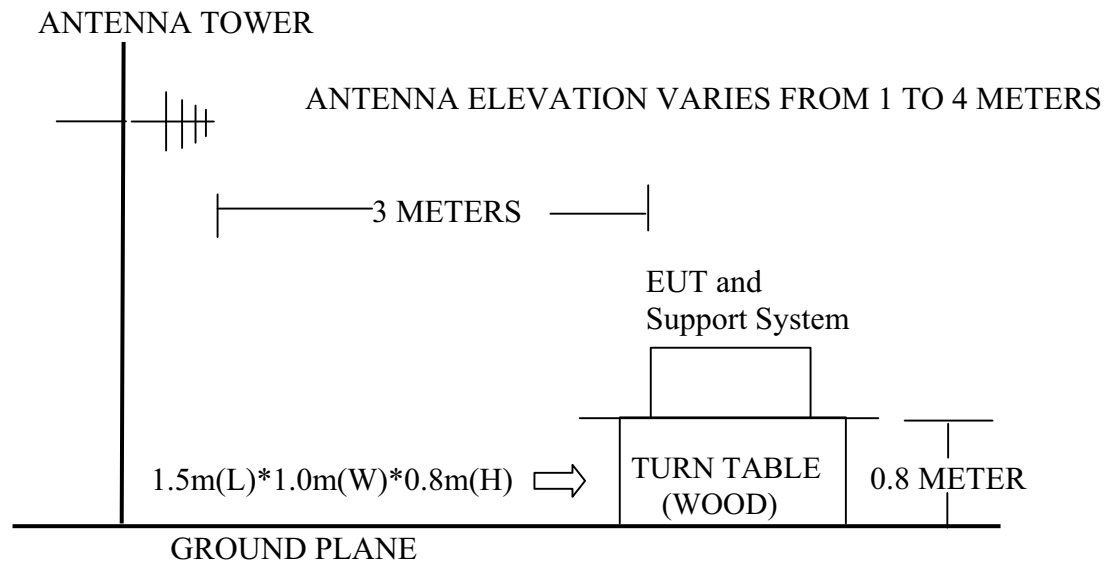


a: Lan Cable 10m

b: Lan Cable 1m

(EUT: Wireless N Router)

4.2.2. In Anechoic Chamber



4.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level = Antenna Factor + Cable Loss + Reading
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Wireless N Router (EUT)

Model Number : TL-WR841ND
 Serial Number : N/A
 Manufacturer : TP-LINK Technologies Co., Ltd.

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipment.

4.5.3. Notebook ran the Control program with a LAN port of the EUT through Lan cable, which can make the EUT work in test mode (TX mode)

4.5.4. The other ports of the EUT connected with 100Ω Dummy Load.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to 10th harmonic are checked.

4.7. Radiated Emission Test Results

PASS.

The frequency range from 30MHz to 1000MHz and above 1GHz is investigated. Please see the following pages.

All the emissions 1GHz~4GHz and 18GHz~25GHz are peak measured and comply with average limit.

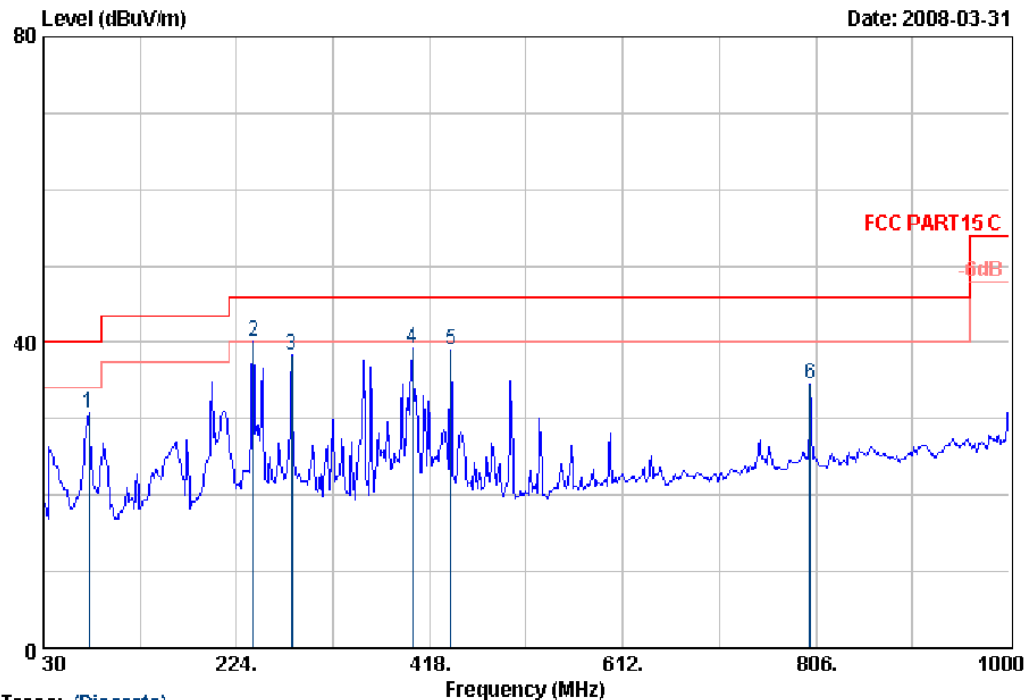
Frequency: 30MHz~1GHz



No.6 Ka Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 1 File: D:\2008 Report Data\TTP-LINK\ACS8Q343.EMI (8)

Date: 2008-03-31



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 1
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 24°C/56% ESVS20 Engineer : Mario
EUT : Wireless N Router
Power Rating : DC 12V From Adapter AC 120V/60Hz
Test Mode : Tx Mode
M/N : TL-WR841N

		Ant.	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	75.59	7.32	0.94	22.48	30.74	40.00	9.26	QP
2	240.49	11.88	1.46	26.68	40.02	46.00	5.98	QP
3	279.29	13.30	1.57	23.37	38.24	46.00	7.76	QP
4	400.54	16.53	1.83	20.76	39.12	46.00	6.88	QP
5	439.34	17.08	2.04	19.88	39.00	46.00	7.00	QP
6	800.18	21.80	2.61	10.24	34.65	46.00	11.35	QP

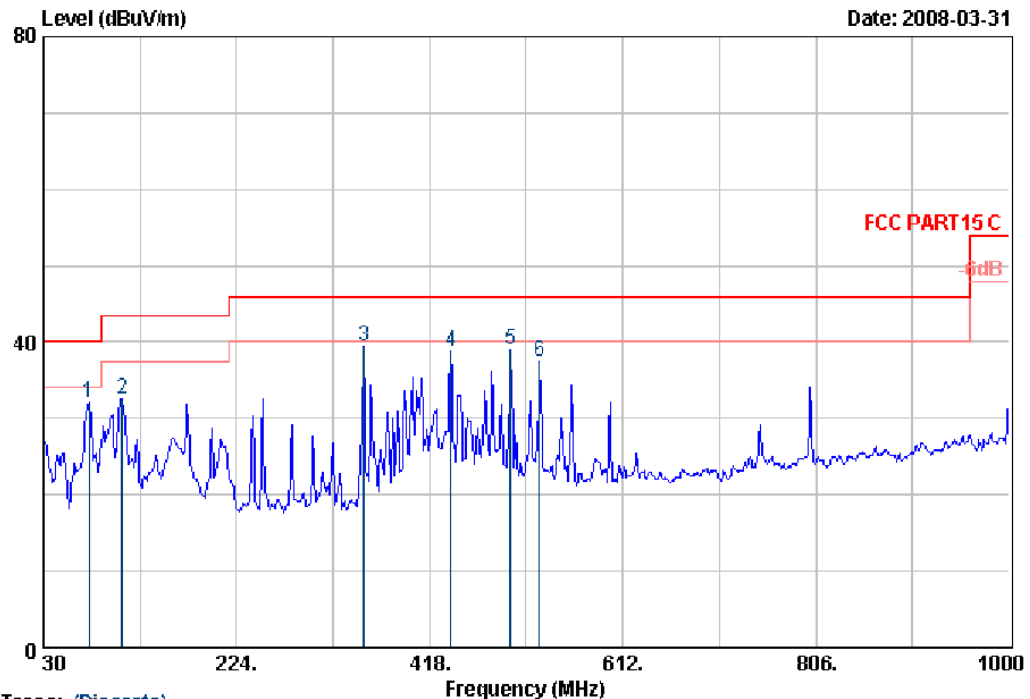
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495
Fax:+86-755-26632877
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Data: 2 File: D:\2008 Report Data\TTP-LINK\ACS8Q343.EMI (8)

Date: 2008-03-31



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 2
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
Limit : FCC PART15 C
Env. / Ins. : 24°C/56% ESVS20 Engineer : Mario
EUT : Wireless N Router
Power Rating : DC 12V From Adapter AC 120V/60Hz
Test Mode : Tx Mode
M/N : TL-WR841N

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	75.59	7.32	0.94	23.80	32.06	40.00	7.94	QP
2	109.54	11.30	1.04	20.28	32.62	43.50	10.88	QP
3	352.04	15.28	1.79	22.37	39.44	46.00	6.56	QP
4	439.34	17.08	2.04	19.56	38.68	46.00	7.32	QP
5	499.48	18.10	2.02	18.84	38.96	46.00	7.04	QP
6	528.58	18.40	2.09	17.01	37.50	46.00	8.50	QP

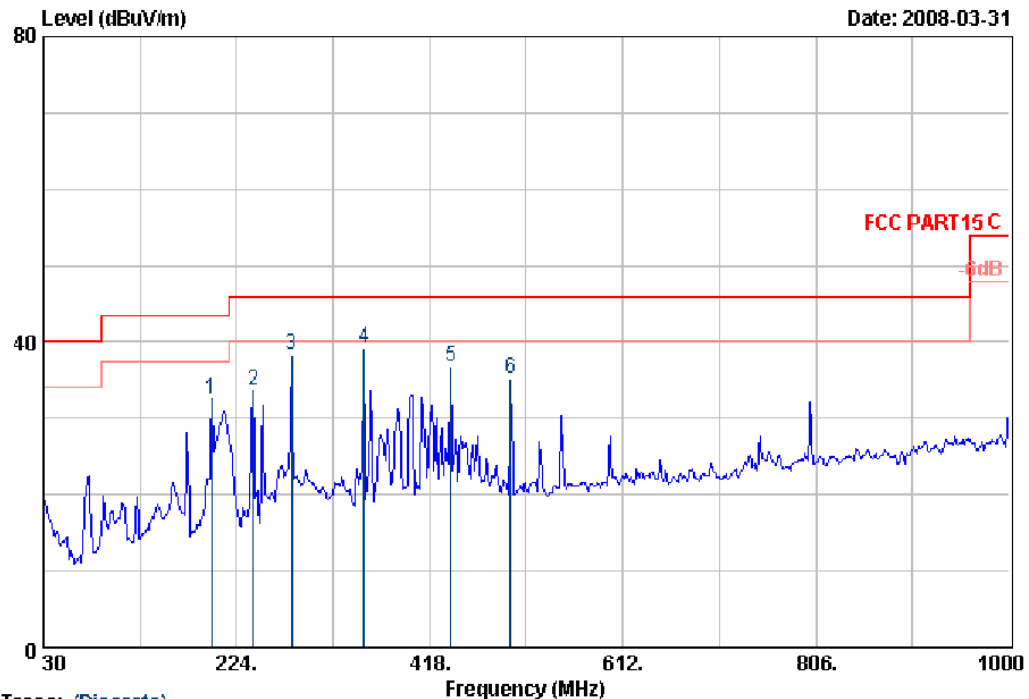
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495
Fax:+86-755-26632877
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Data: 4 File: D:\2008 Report Data\TTP-LINK\ACS8Q343.EMI (8)

Date: 2008-03-31



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 4
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 24°C/56% ESVS20 Engineer : Mario
EUT : Wireless N Router
Power Rating : DC 12V From Adapter AC 120V/60Hz
Test Mode : Tx Mode
M/N : TL-WR841ND

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	198.78	10.04	1.32	21.15	32.51	43.50	10.99	QP
2	240.49	11.88	1.46	20.41	33.75	46.00	12.25	QP
3	279.29	13.30	1.57	23.41	38.28	46.00	7.72	QP
4	352.04	15.28	1.79	22.13	39.20	46.00	6.80	QP
5	439.34	17.08	2.04	17.75	36.87	46.00	9.13	QP
6	499.48	18.10	2.02	15.19	35.31	46.00	10.69	QP

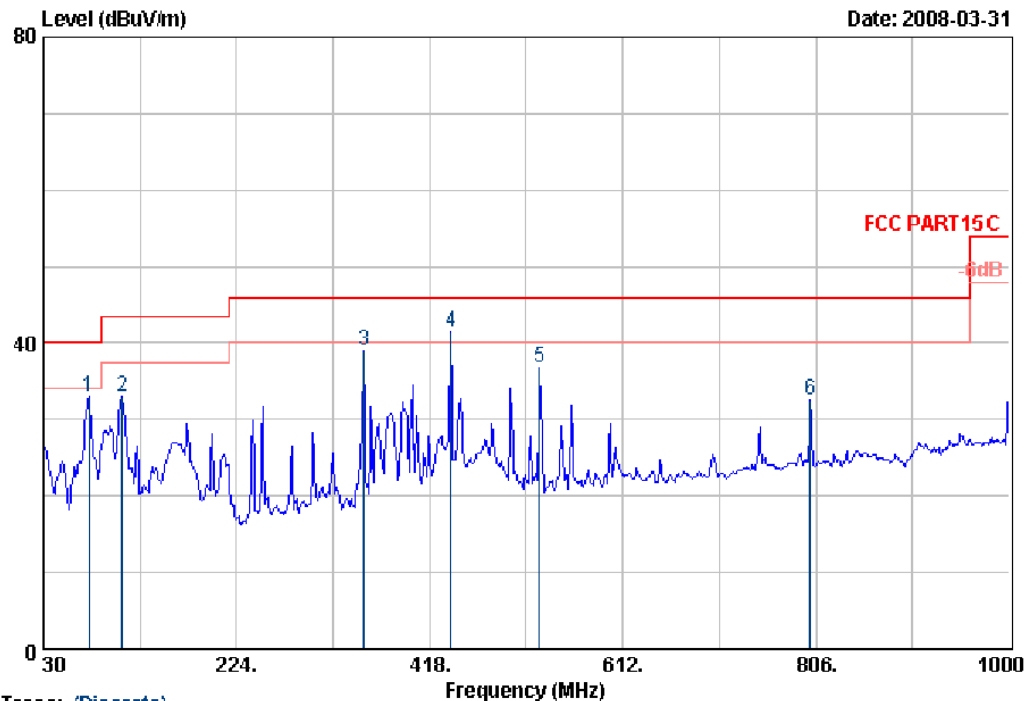
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495
Fax:+86-755-26632877
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Data: 3 File: D:\2008 Report Data\TTP-LINK\ACS8Q343.EMI (8)

Date: 2008-03-31



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 3
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
Limit : FCC PART15 C
Env. / Ins. : 24°C/56% ESVS20 Engineer : Mario
EUT : Wireless N Router
Power Rating : DC 12V From Adapter AC 120V/60Hz
Test Mode : Tx Mode
M/N : TL-WR841ND

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	75.59	7.32	0.94	24.79	33.05	40.00	6.95	QP
2	109.54	11.30	1.04	20.62	32.96	43.50	10.54	QP
3	352.04	15.28	1.79	21.95	39.02	46.00	6.98	QP
4	439.34	17.08	2.04	22.26	41.38	46.00	4.62	QP
5	528.58	18.40	2.09	16.20	36.69	46.00	9.31	QP
6	800.18	21.80	2.61	8.23	32.64	46.00	13.36	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~4GHz

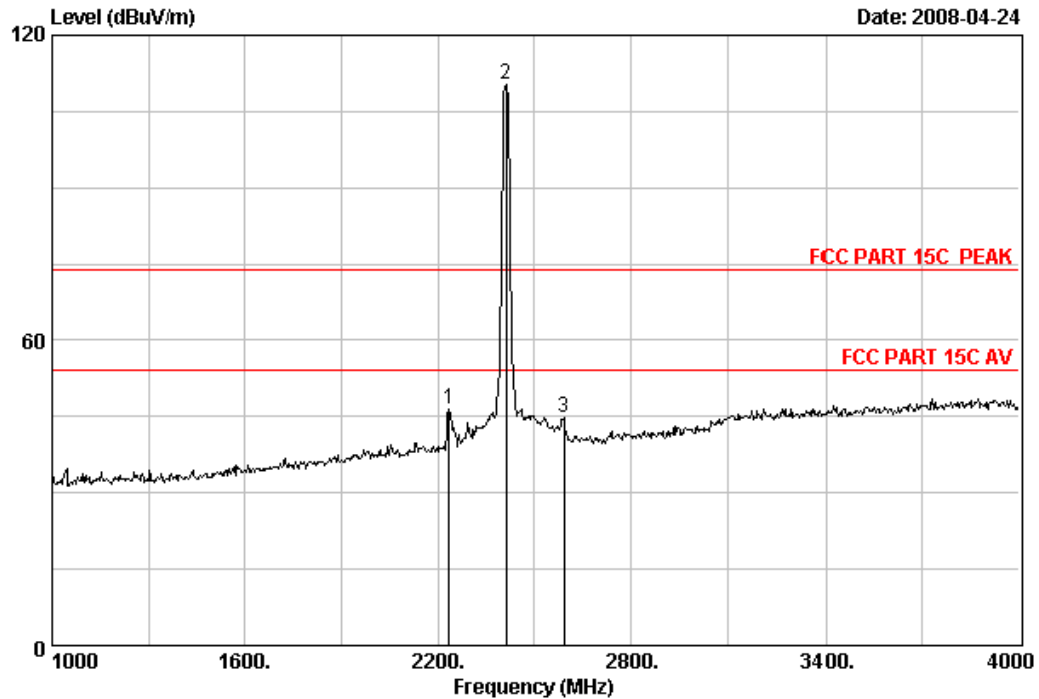


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 97

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 97
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

	Ant.	Cable	Amp		Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2233.00	28.62	6.53	35.23	46.67	46.59	74.00	27.41	Peak
2	2412.00	29.03	6.73	35.18	109.74	110.32	74.00	-36.32	Peak
3	2590.00	29.58	7.03	35.12	43.36	44.85	74.00	29.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

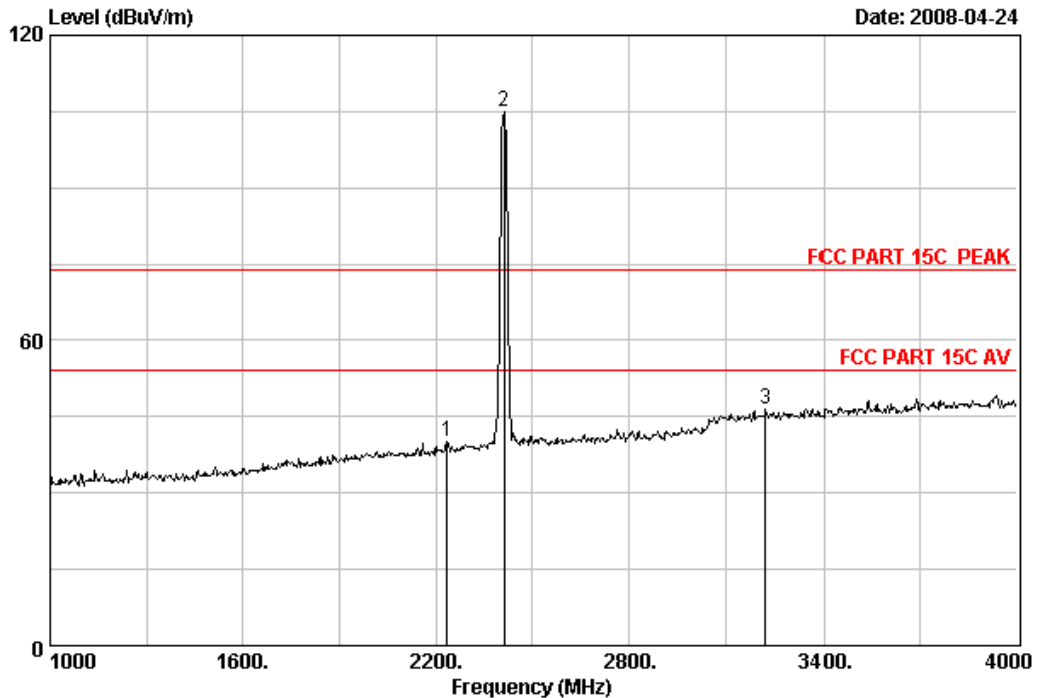


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Shenzhen Science & Industry Park
Noutou,Shenzhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 98

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 98
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2233.00	28.62	6.53	35.23	40.23	40.15	74.00	33.85	Peak
2	2412.00	29.03	6.73	35.18	104.23	104.81	74.00	-30.81	Peak
3	3223.00	31.61	8.13	34.93	41.61	46.42	74.00	27.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

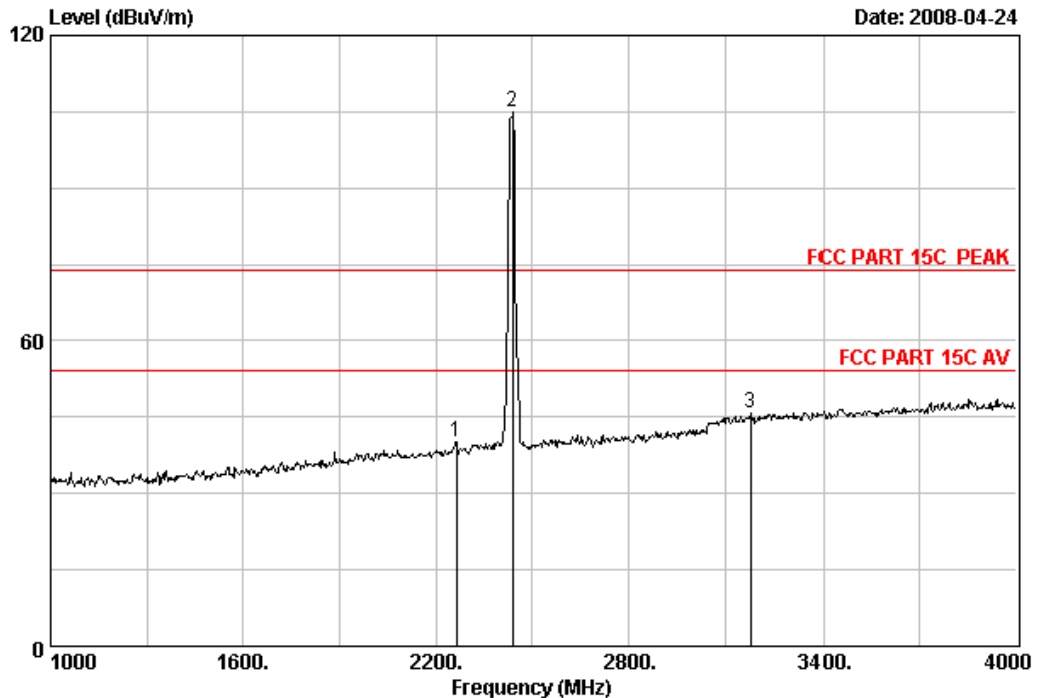


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 99

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Date: 2008-04-24



Site no. : RF Chamber Data no. : 99
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2263.00	28.67	6.58	35.22	40.05	40.08	74.00	33.92	Peak
2	2437.00	29.11	6.80	35.17	104.32	105.06	74.00	-31.06	Peak
3	3178.00	31.47	8.03	34.95	41.39	45.94	74.00	28.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

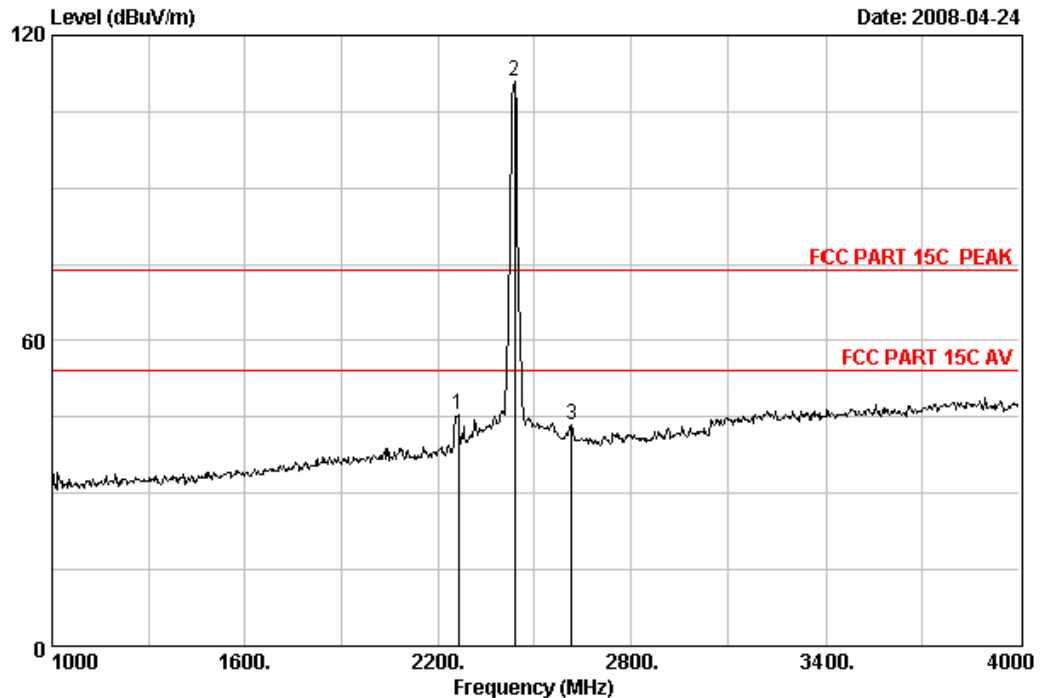


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 100

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 100
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2263.00	28.67	6.58	35.22	45.37	45.40	74.00	28.60	Peak
2	2437.00	29.11	6.80	35.17	110.17	110.91	74.00	-36.91	Peak
3	2614.00	29.64	7.06	35.11	41.93	43.52	74.00	30.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

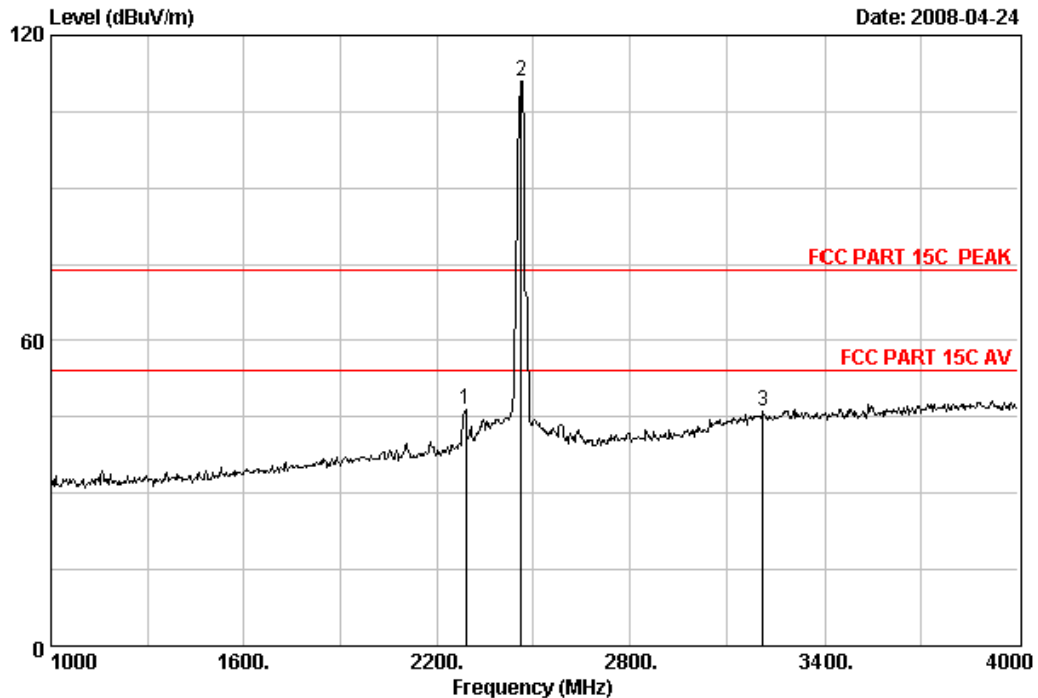


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
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Data: 101

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 101
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2290.00	28.75	6.61	35.21	46.18	46.33	74.00	27.67	Peak
2	2462.00	29.15	6.84	35.17	110.01	110.83	74.00	-36.83	Peak
3	3214.00	31.57	8.13	34.93	41.38	46.15	74.00	27.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

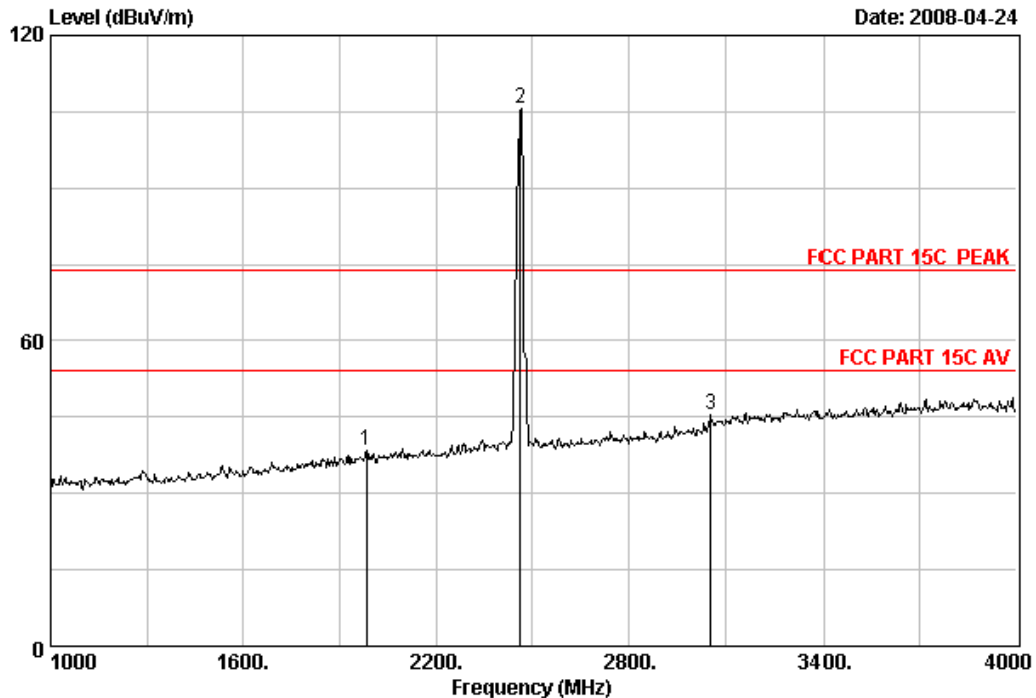


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 102

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 102
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	1984.00	27.97	6.16	35.32	39.70	38.51	74.00	35.49	Peak
2	2462.00	29.15	6.84	35.17	104.81	105.63	74.00	-31.63	Peak
3	3055.00	31.14	7.78	34.99	41.60	45.53	74.00	28.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

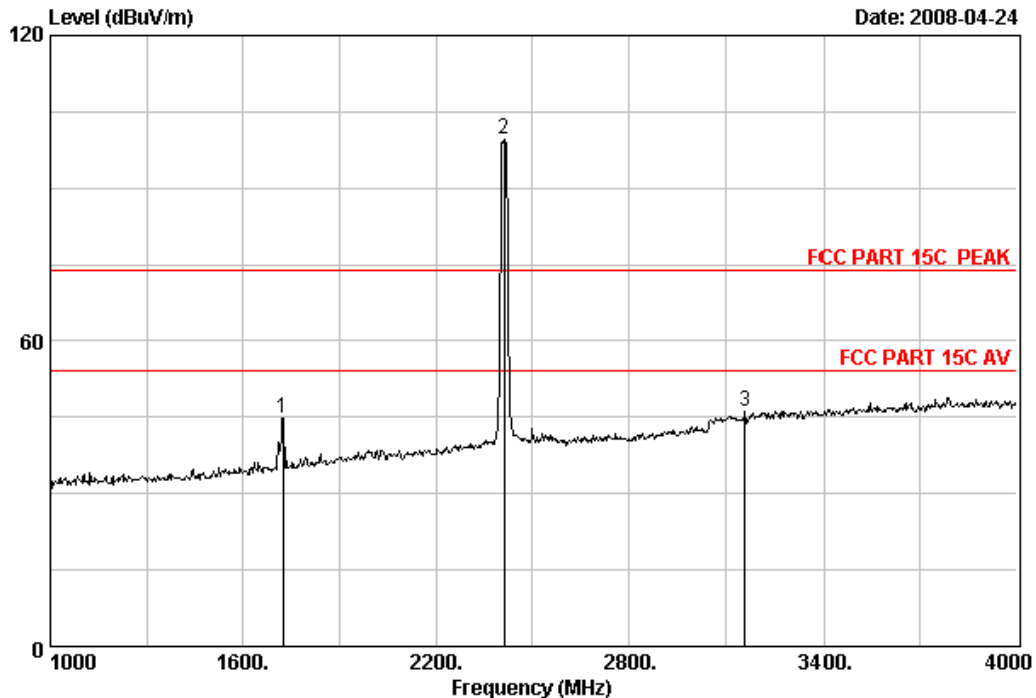


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 103

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 103
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1723.00	26.63	5.67	35.55	48.02	44.77	74.00	29.23	Peak
2	2412.00	29.03	6.73	35.18	99.07	99.65	74.00	-25.65	Peak
3	3160.00	31.43	7.99	34.96	41.62	46.08	74.00	27.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

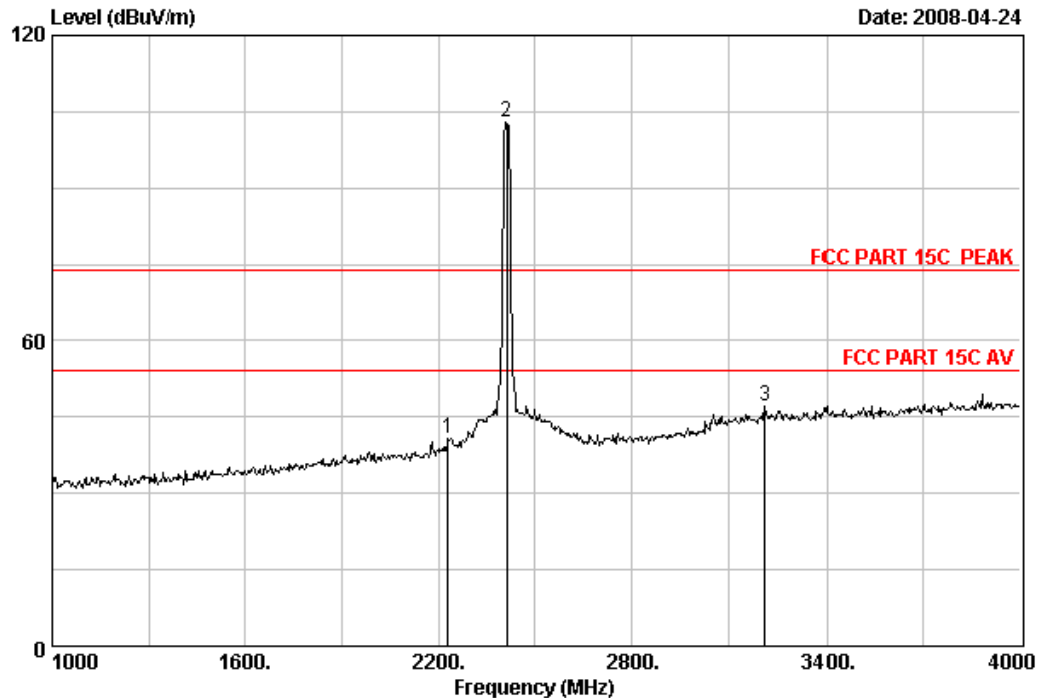


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
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Data: 104

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Date: 2008-04-24



Site no. : RF Chamber Data no. : 104
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2230.00	28.58	6.53	35.23	41.05	40.93	74.00	33.07	Peak
2	2412.00	29.03	6.73	35.18	102.40	102.98	74.00	-28.98	Peak
3	3214.00	31.57	8.13	34.93	42.22	46.99	74.00	27.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

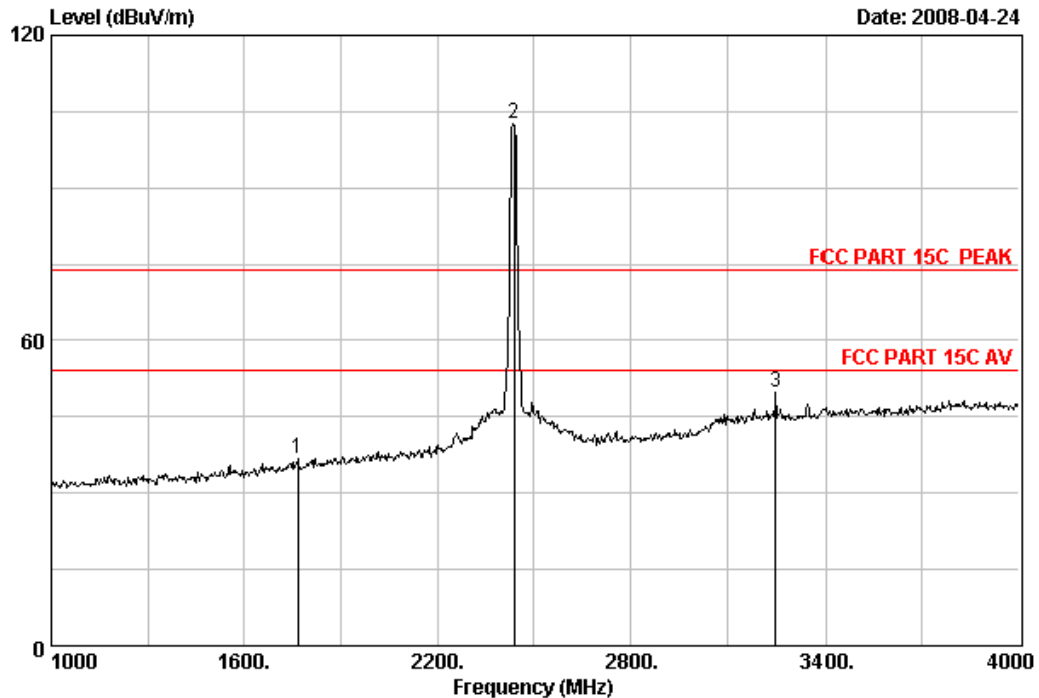


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 105

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 105
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1765.00	26.80	5.74	35.50	39.76	36.80	74.00	37.20	Peak
2	2437.00	29.11	6.80	35.17	101.72	102.46	74.00	-28.46	Peak
3	3250.00	31.66	8.23	34.92	44.73	49.70	74.00	24.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

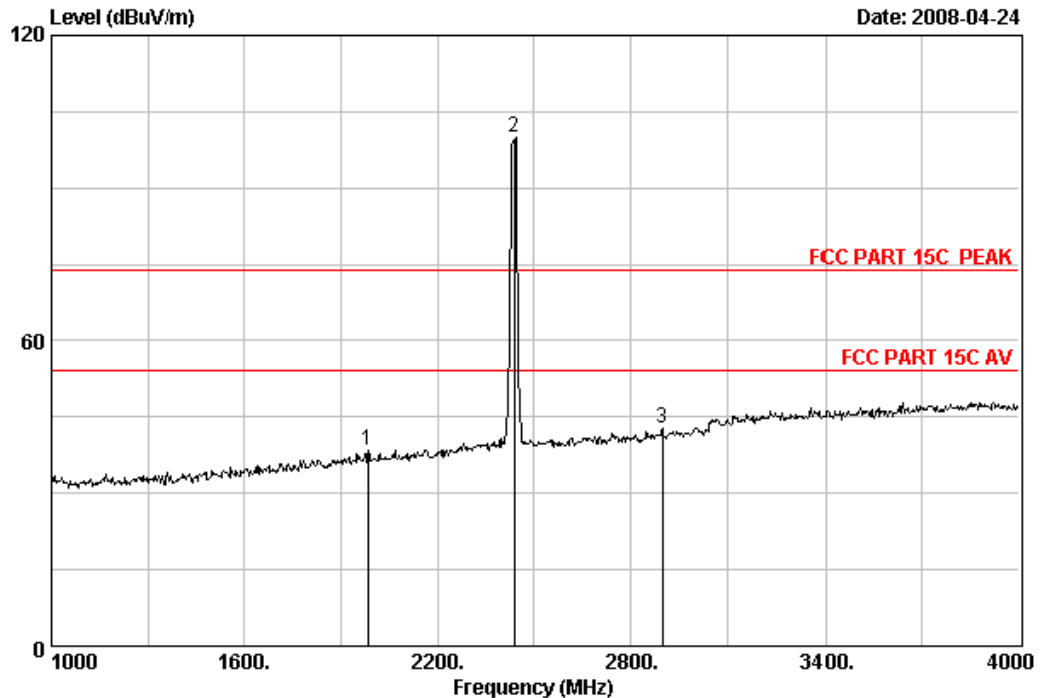


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-26632877
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Data: 106

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 106
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx

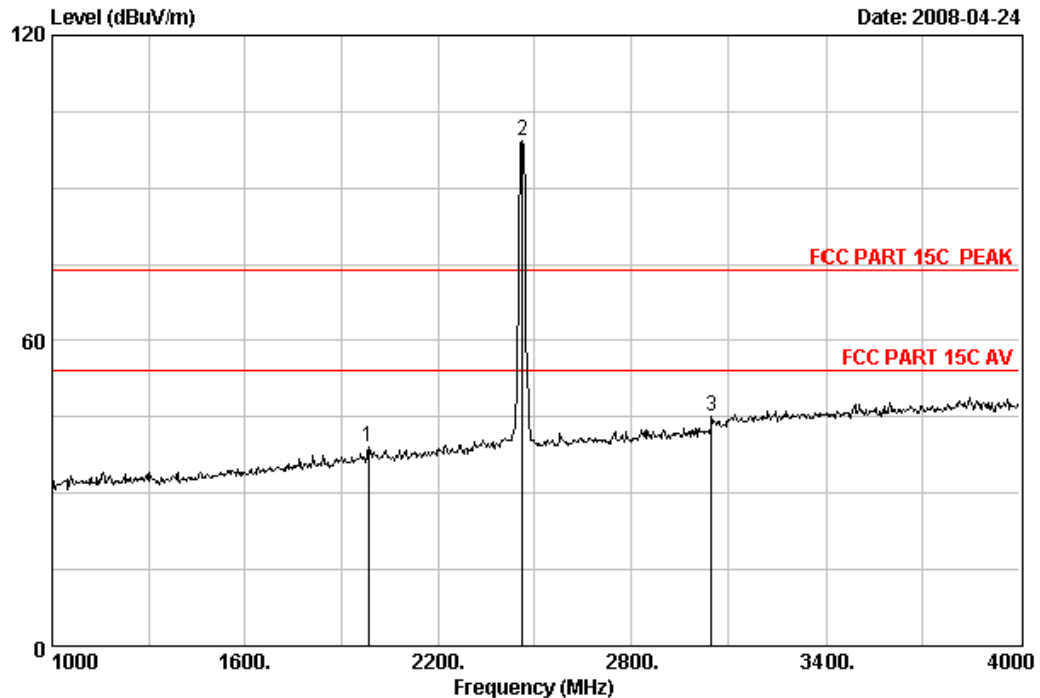
		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	1984.00	27.97	6.16	35.32	39.56	38.37	74.00	35.63	Peak
2	2437.00	29.11	6.80	35.17	99.24	99.98	74.00	-25.98	Peak
3	2899.00	30.65	7.48	35.03	39.62	42.72	74.00	31.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 107 File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)



Site no. : RF Chamber Data no. : 107
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1984.00	27.97	6.16	35.32	40.22	39.03	74.00	34.97	Peak
2	2462.00	29.15	6.84	35.17	98.46	99.28	74.00	-25.28	Peak
3	3049.00	31.14	7.78	34.99	41.11	45.04	74.00	28.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

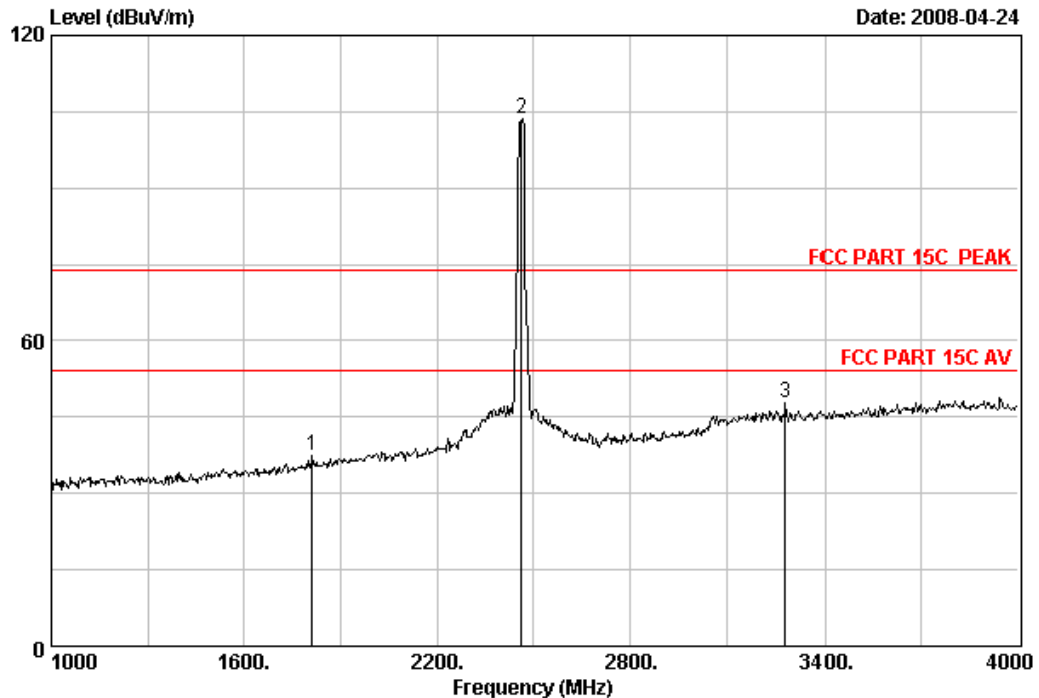


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 108

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 108
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1810.00	27.07	5.84	35.48	39.93	37.36	74.00	36.64	Peak
2	2462.00	29.15	6.84	35.17	102.86	103.68	74.00	-29.68	Peak
3	3283.00	31.76	8.28	34.92	42.67	47.79	74.00	26.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

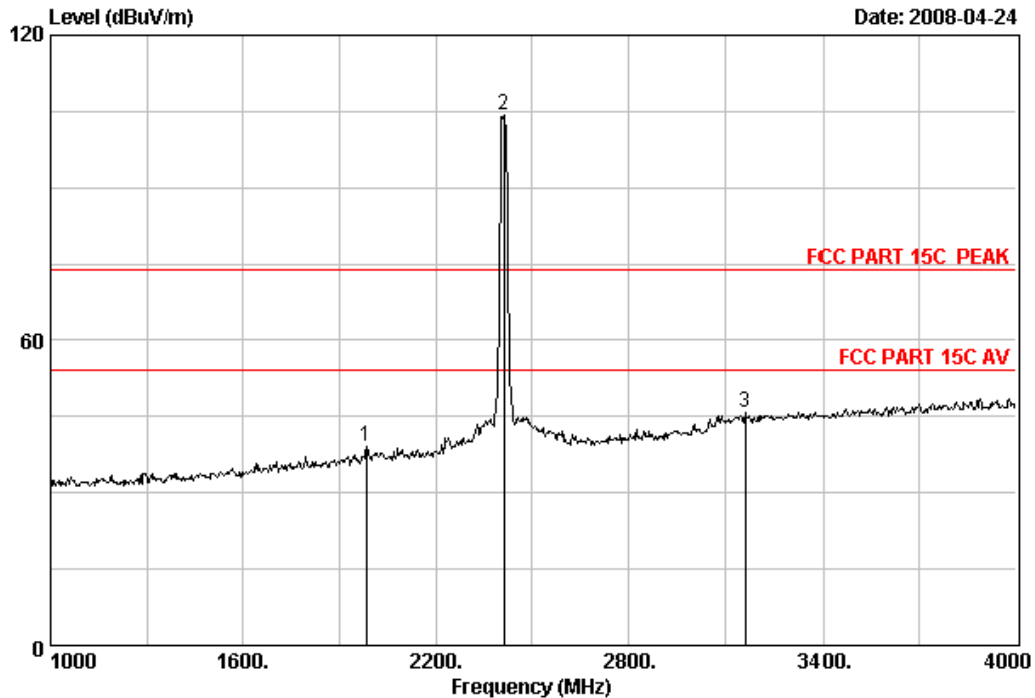


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 109

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 109
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

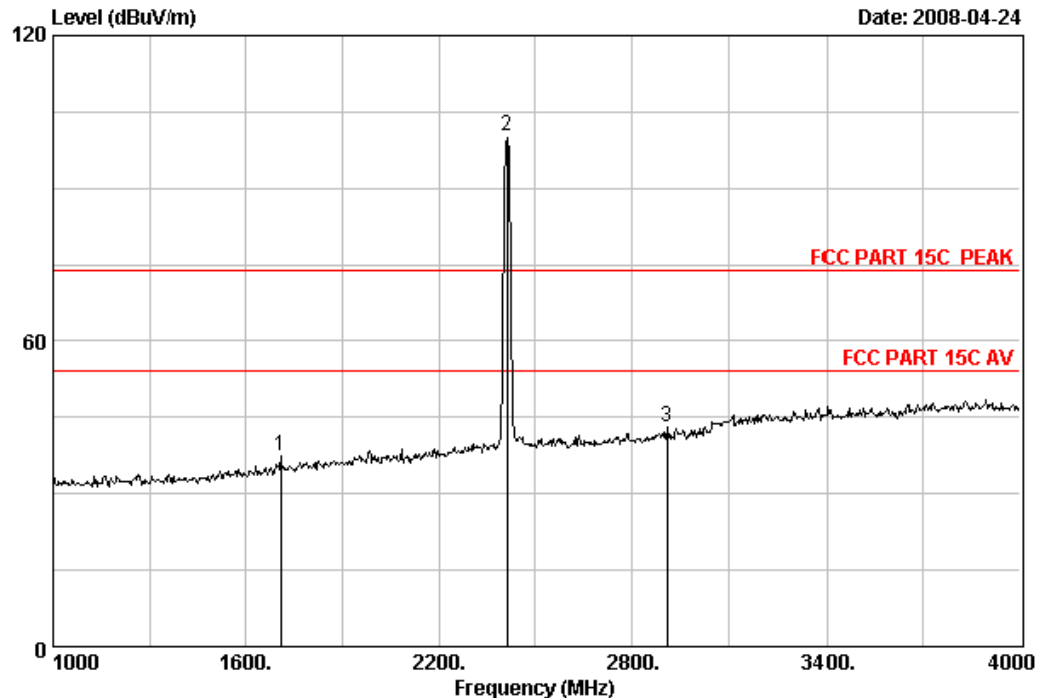
		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1984.00	27.97	6.16	35.32	40.27	39.08	74.00	34.92	Peak
2	2412.00	29.03	6.73	35.18	103.56	104.14	74.00	-30.14	Peak
3	3163.00	31.43	7.99	34.95	41.33	45.80	74.00	28.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 110 File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)



Site no. : RF Chamber Data no. : 110
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1708.00	26.54	5.64	35.57	40.70	37.31	74.00	36.69	Peak
2	2412.00	29.03	6.73	35.18	99.56	100.14	74.00	-26.14	Peak
3	2908.00	30.65	7.53	35.03	39.84	42.99	74.00	31.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

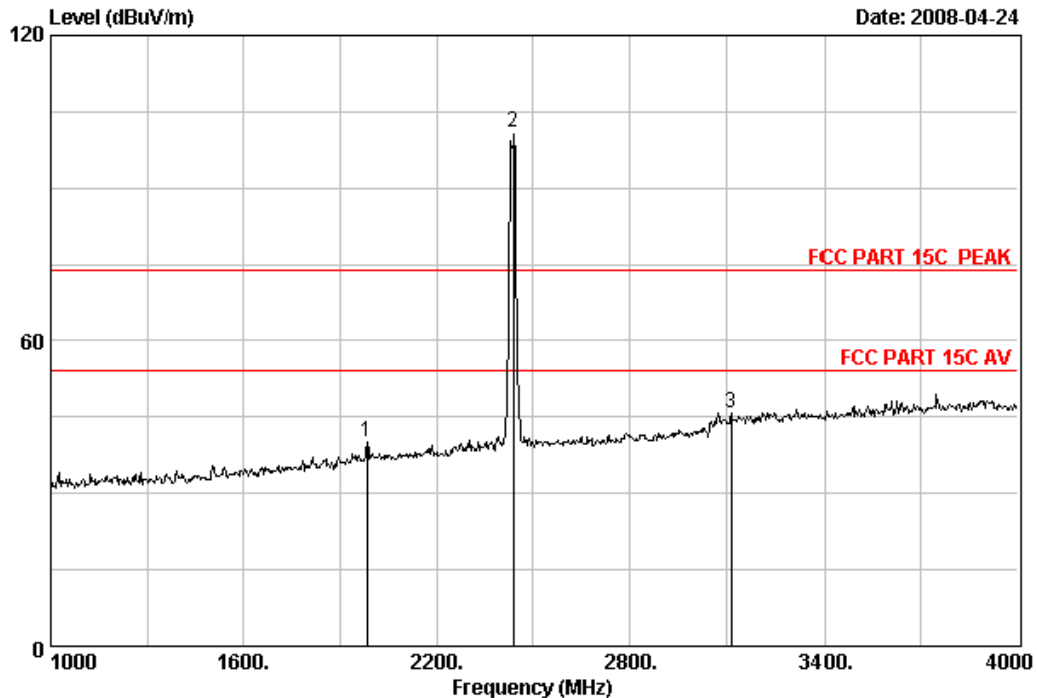


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Shenzhen Science & Industry Park
Noutou,Shenzhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 111

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 111
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT20 CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1984.00	27.97	6.16	35.32	41.30	40.11	74.00	33.89	Peak
2	2437.00	29.11	6.80	35.17	100.20	100.94	74.00	-26.94	Peak
3	3115.00	31.28	7.90	34.96	41.66	45.88	74.00	28.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

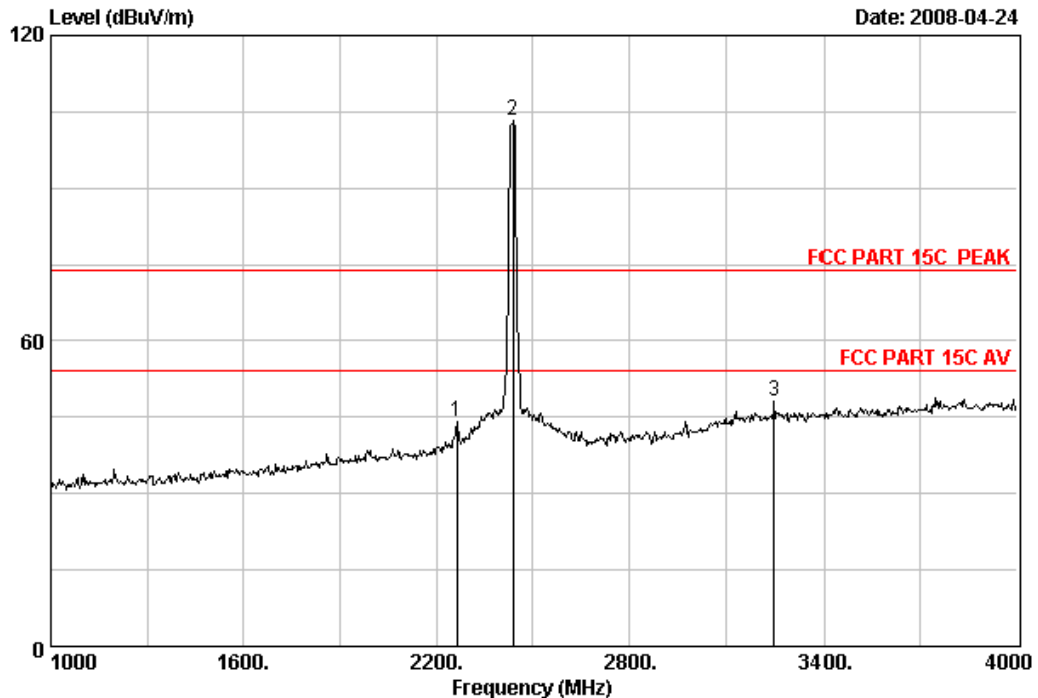


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 112

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 112
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT20 CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2263.00	28.67	6.58	35.22	43.98	44.01	74.00	29.99	Peak
2	2437.00	29.11	6.80	35.17	102.49	103.23	74.00	-29.23	Peak
3	3250.00	31.66	8.23	34.92	43.30	48.27	74.00	25.73	Peak

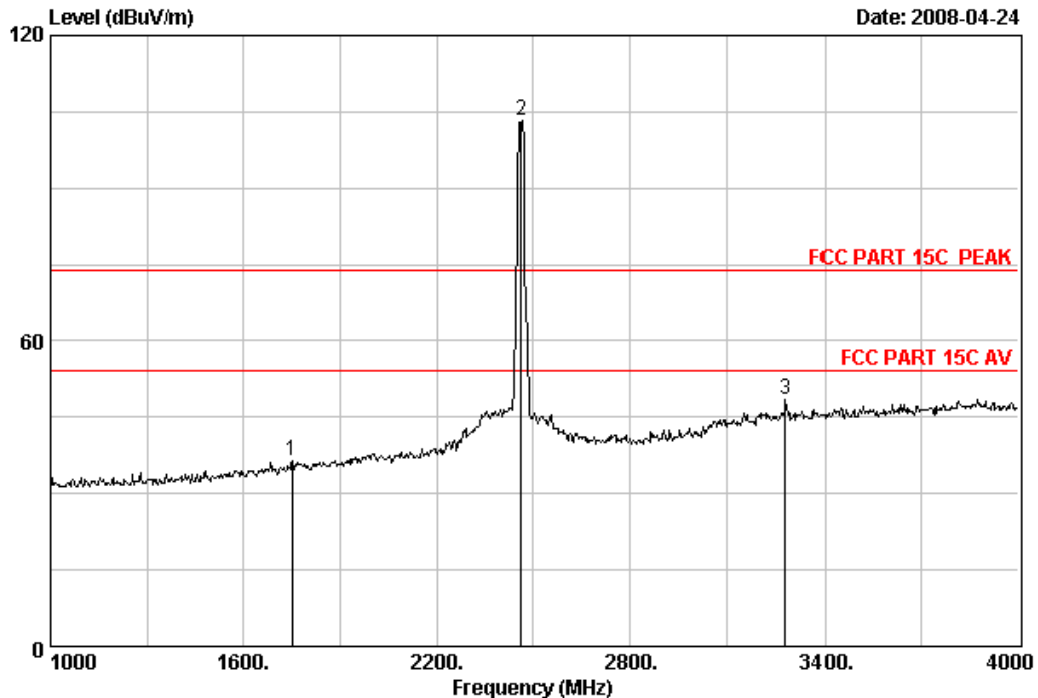
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 113 File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 113
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1750.00	26.72	5.74	35.53	39.41	36.34	74.00	37.66	Peak
2	2462.00	29.15	6.84	35.17	102.40	103.22	74.00	-29.22	Peak
3	3283.00	31.76	8.28	34.92	43.49	48.61	74.00	25.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

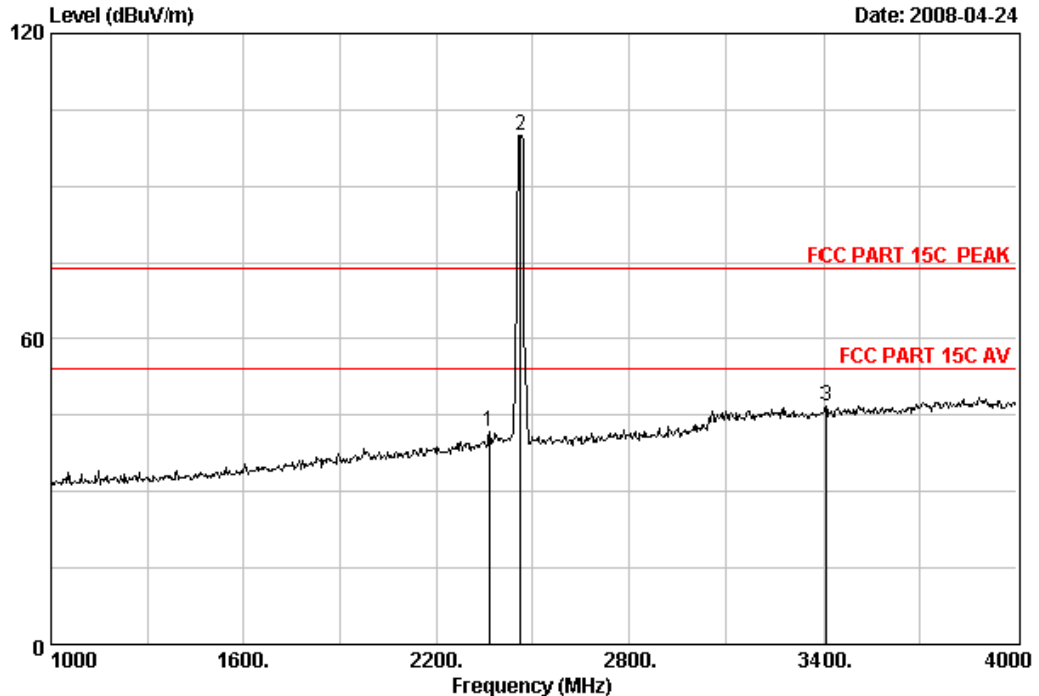


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 114

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 114
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2365.00	28.91	6.69	35.19	41.53	41.94	74.00	32.06	Peak
2	2462.00	29.15	6.84	35.17	99.14	99.96	74.00	-25.96	Peak
3	3409.00	32.13	8.51	34.88	41.05	46.81	74.00	27.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

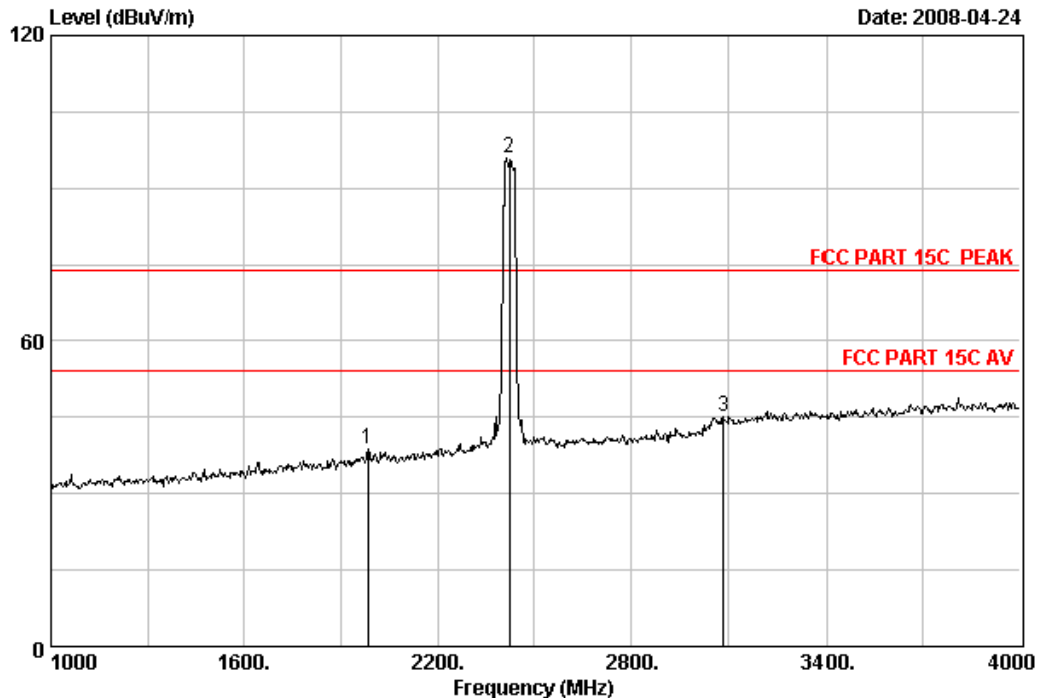


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 115

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 115
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1984.00	27.97	6.16	35.32	40.03	38.84	74.00	35.16	Peak
2	2422.00	29.07	6.77	35.17	95.19	95.86	74.00	-21.86	Peak
3	3085.00	31.24	7.83	34.98	41.14	45.23	74.00	28.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

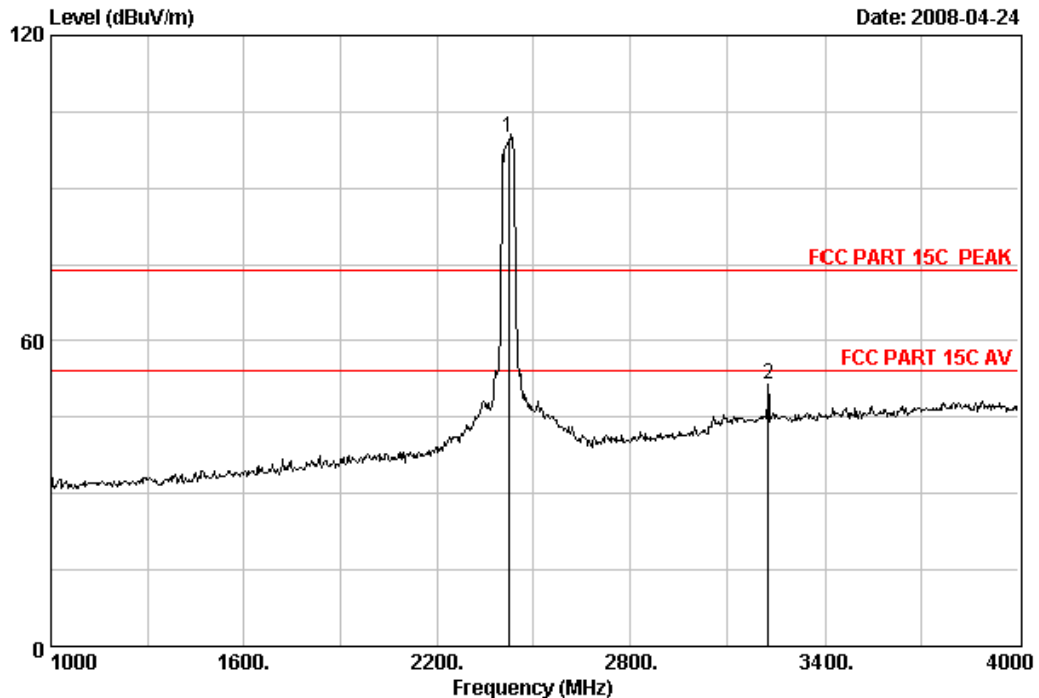


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 116

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 116
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2422.00	29.07	6.77	35.17	99.14	99.81	74.00	-25.81	Peak
2	3229.00	31.61	8.18	34.93	46.74	51.60	74.00	22.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

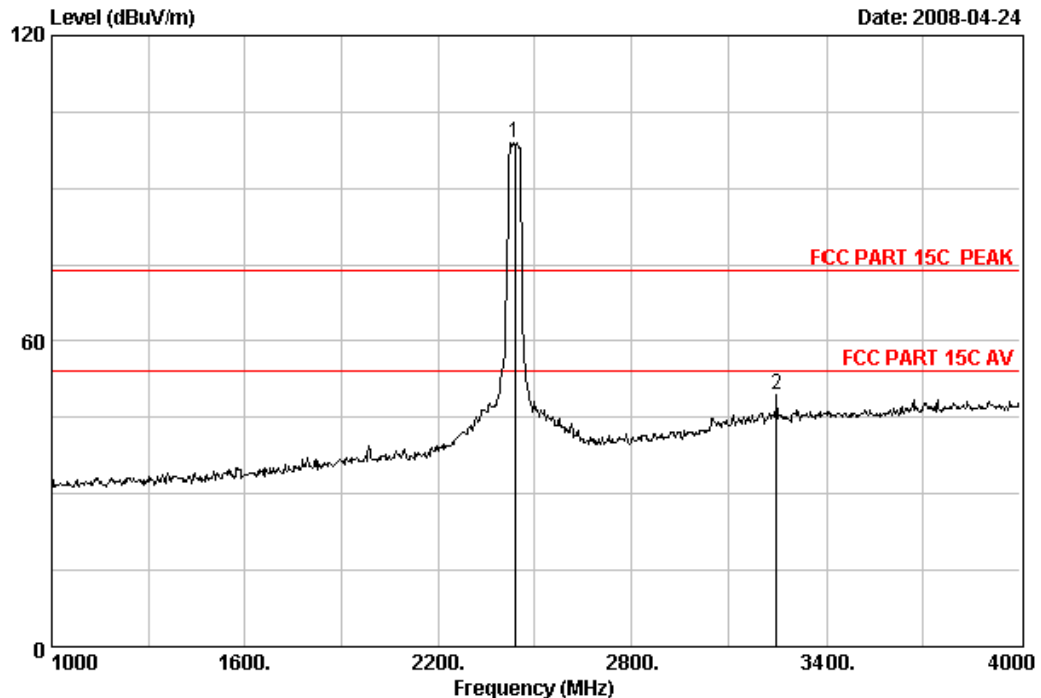


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 117

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 117
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT40 CH4:2437MHz Tx

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2437.00	29.11	6.80	35.17	98.32	99.06	74.00	-25.06	Peak
2	3250.00	31.66	8.23	34.92	44.51	49.48	74.00	24.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

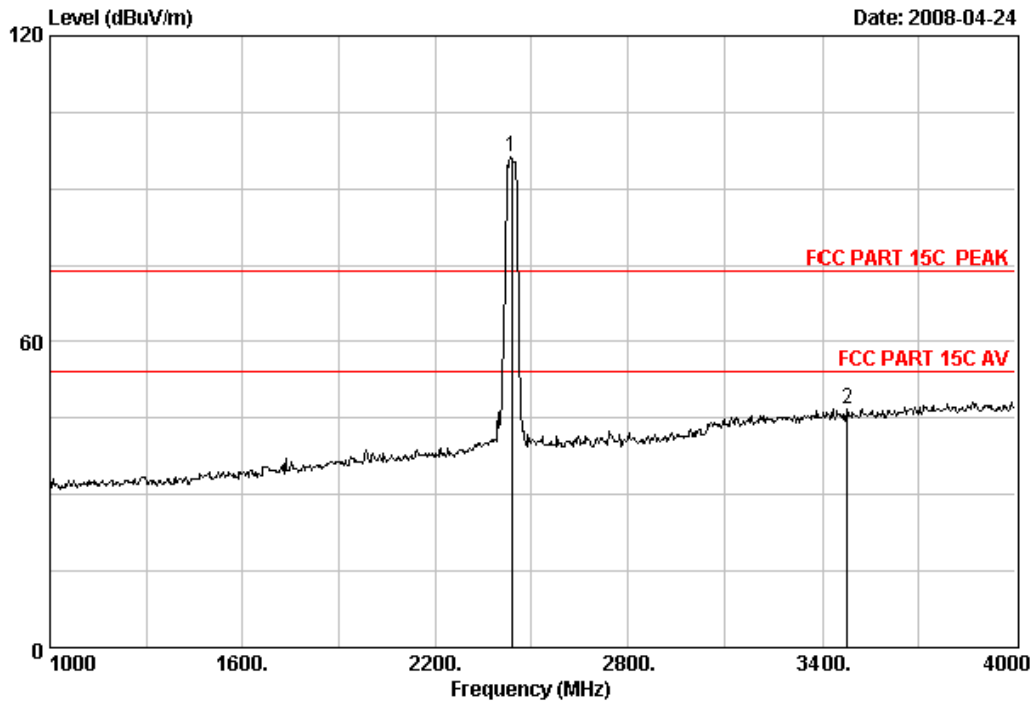


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 118

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 118
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT40 CH4:2437MHz Tx

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2437.00	29.11	6.80	35.17	95.40	96.14	74.00	-22.14	Peak
2	3478.00	32.32	8.79	34.86	40.69	46.94	74.00	27.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

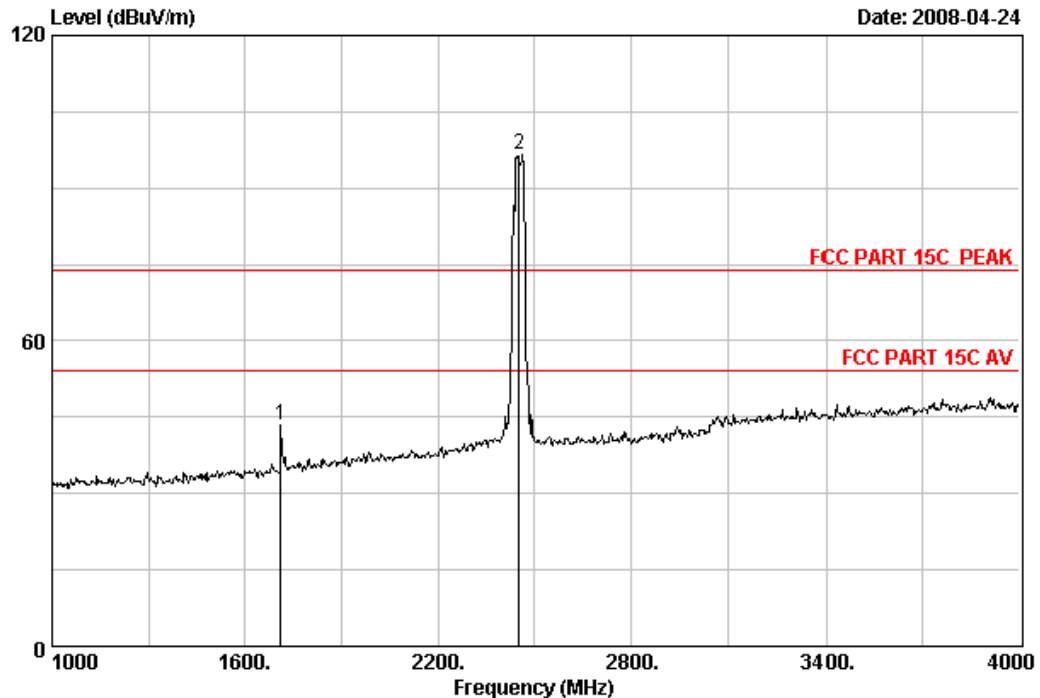


No.6 Ke Feng Road,Block 52,
Shenzhen Science & Industry Park
Noutou,Shenzhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 119

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 119
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	1711.00	26.54	5.67	35.57	46.77	43.41	74.00	30.59	Peak
2	2452.00	29.11	6.84	35.17	95.71	96.49	74.00	-22.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

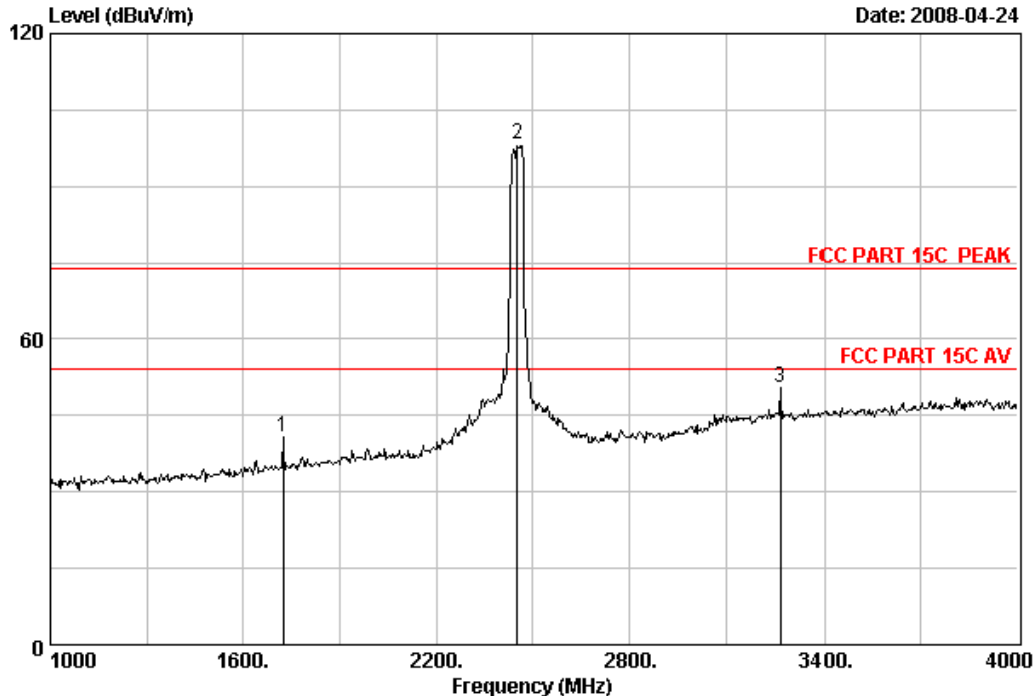


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Postcode:518057

Data: 120

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (120)

Date: 2008-04-24



Site no. : RF Chamber Data no. : 120
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

	Freq.	Ant.	Cable	Amp		Emission			
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	1723.00	26.63	5.67	35.55	44.19	40.94	74.00	33.06	Peak
2	2452.00	29.11	6.84	35.17	97.60	98.38	74.00	-24.38	Peak
3	3268.00	31.71	8.28	34.92	45.34	50.41	74.00	23.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 4GHz~18GHz

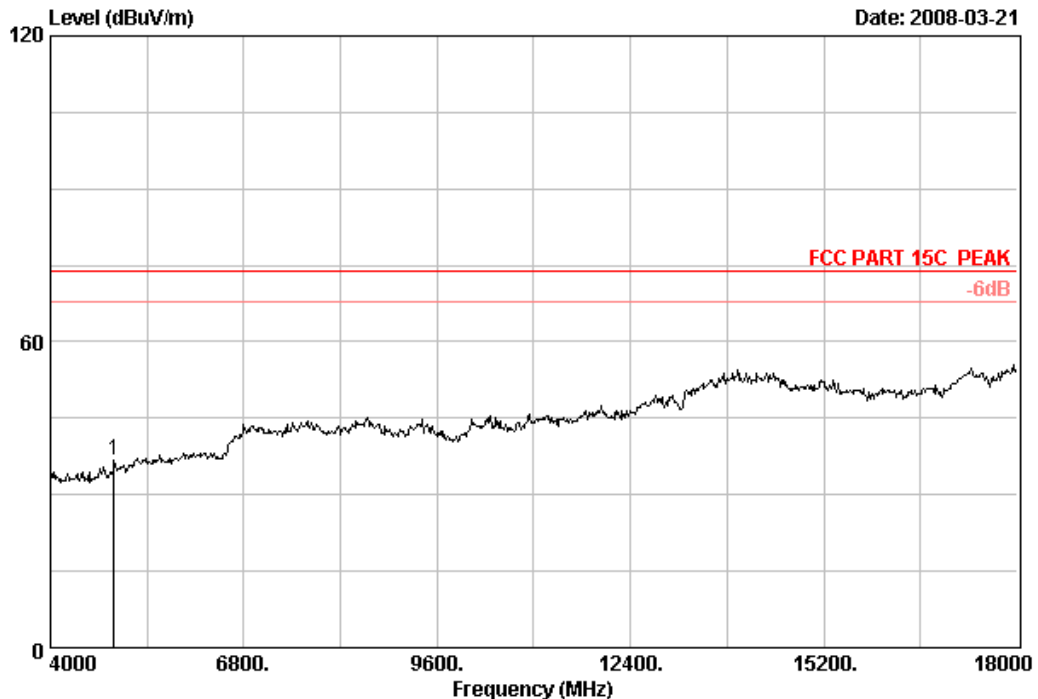


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 127

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-21



Site no. : RF Chamber Data no. : 127
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 4924.00	34.29	10.58	34.47	26.50	36.90	74.00	37.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

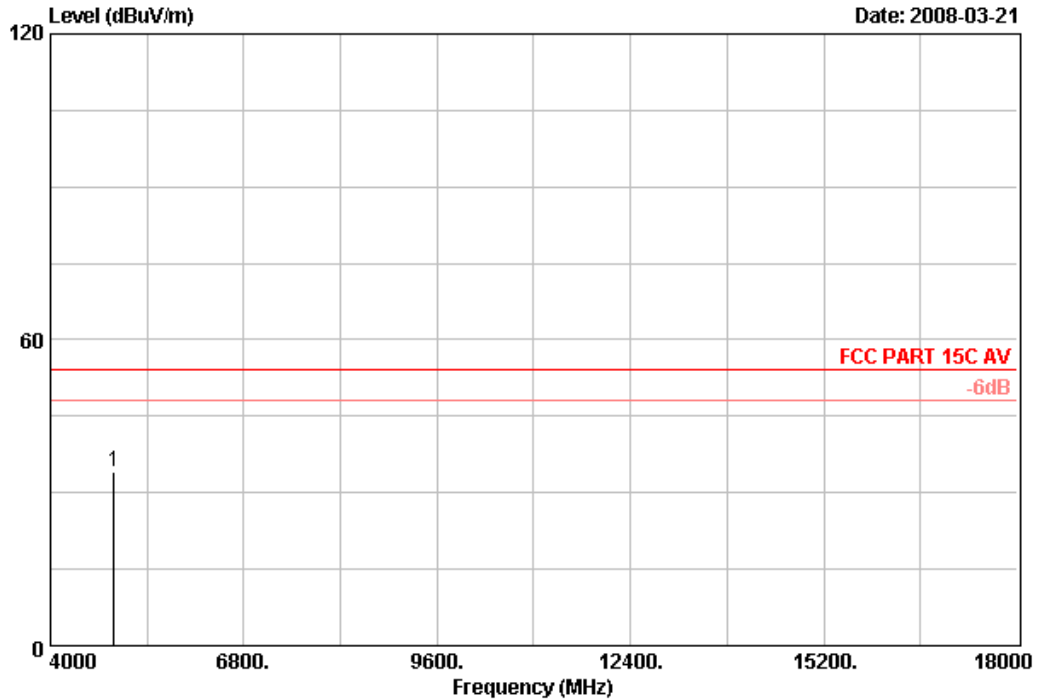


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 128

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-21



Site no. : RF Chamber Data no. : 128
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	23.69	34.09	54.00	19.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

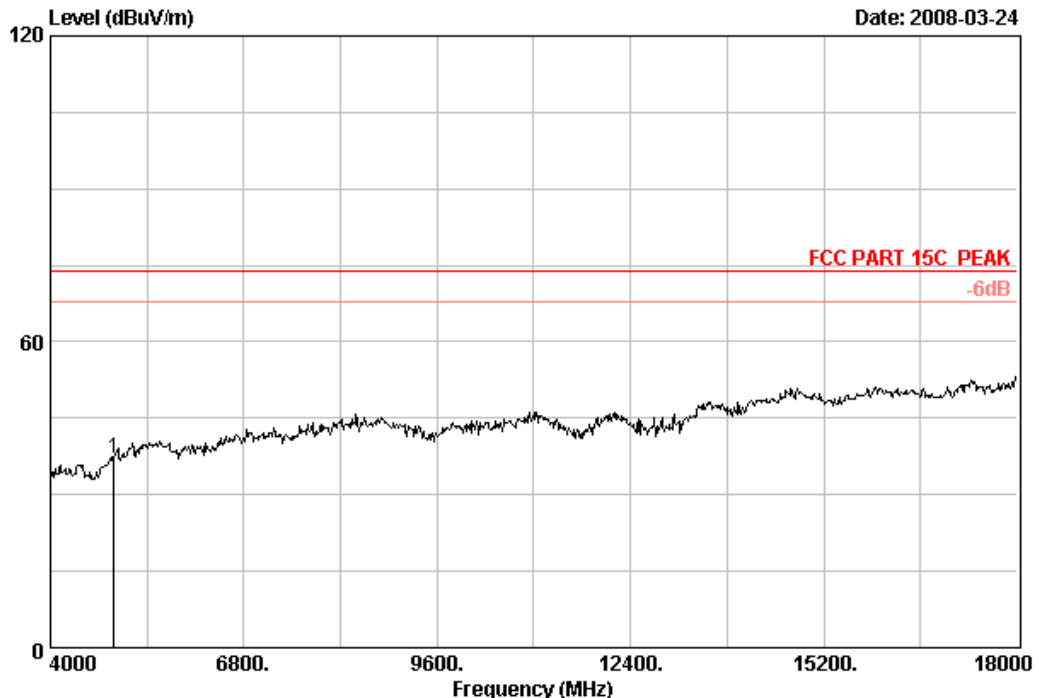


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Postcode:518057

Data: 129

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 129
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	26.69	37.09	74.00	36.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

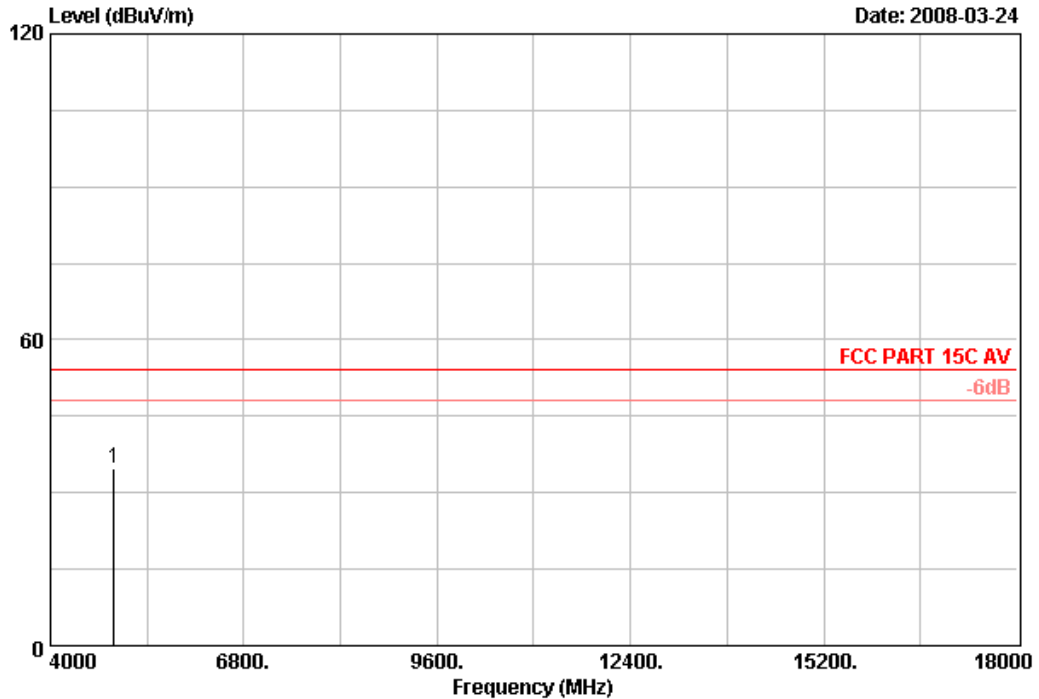


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 130

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 130
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	24.21	34.61	54.00	19.39	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

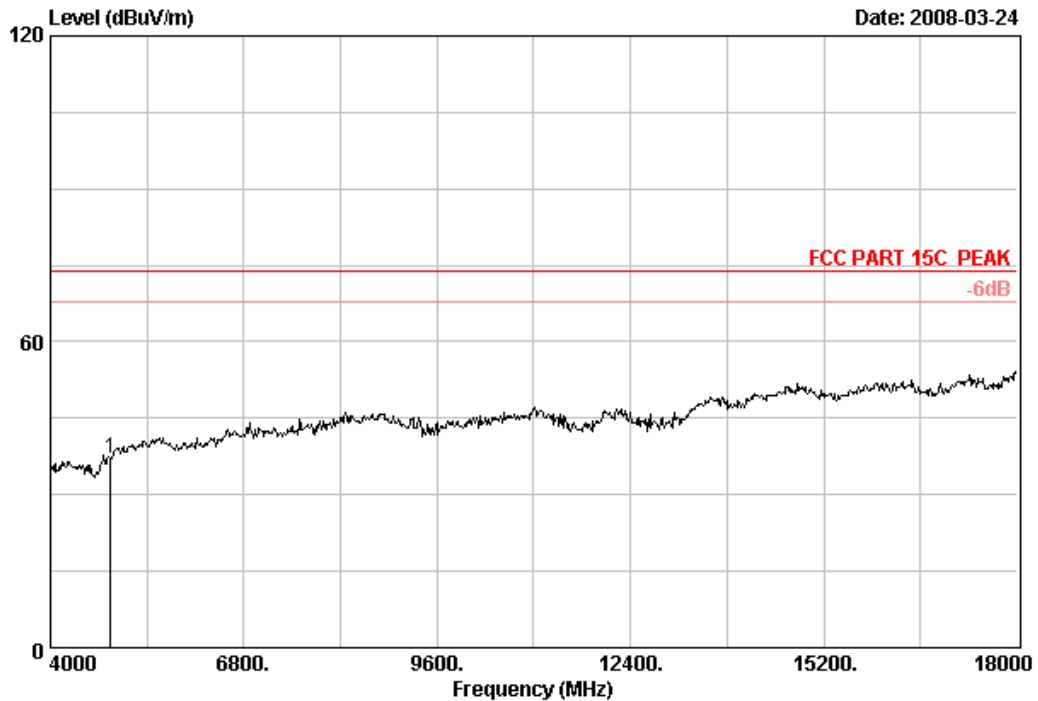


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 131

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 131
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	26.86	37.10	74.00	36.90	Peak
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.									
2. The emission levels that are 20dB below the official limit are not reported.									

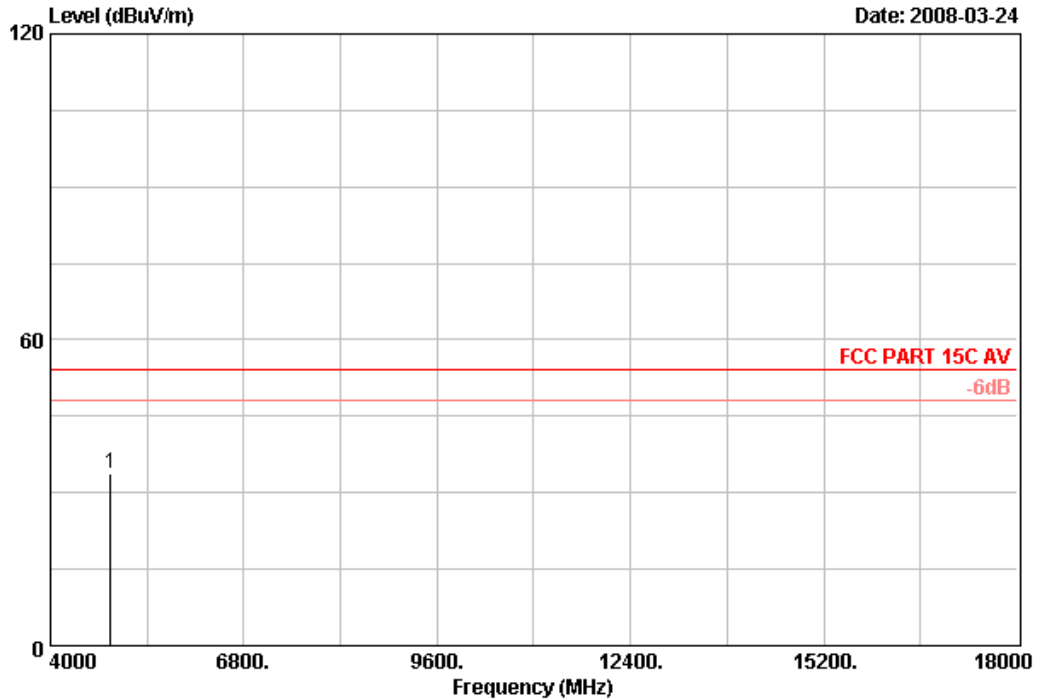


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 132

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 132
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	23.68	33.92	54.00	20.08	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

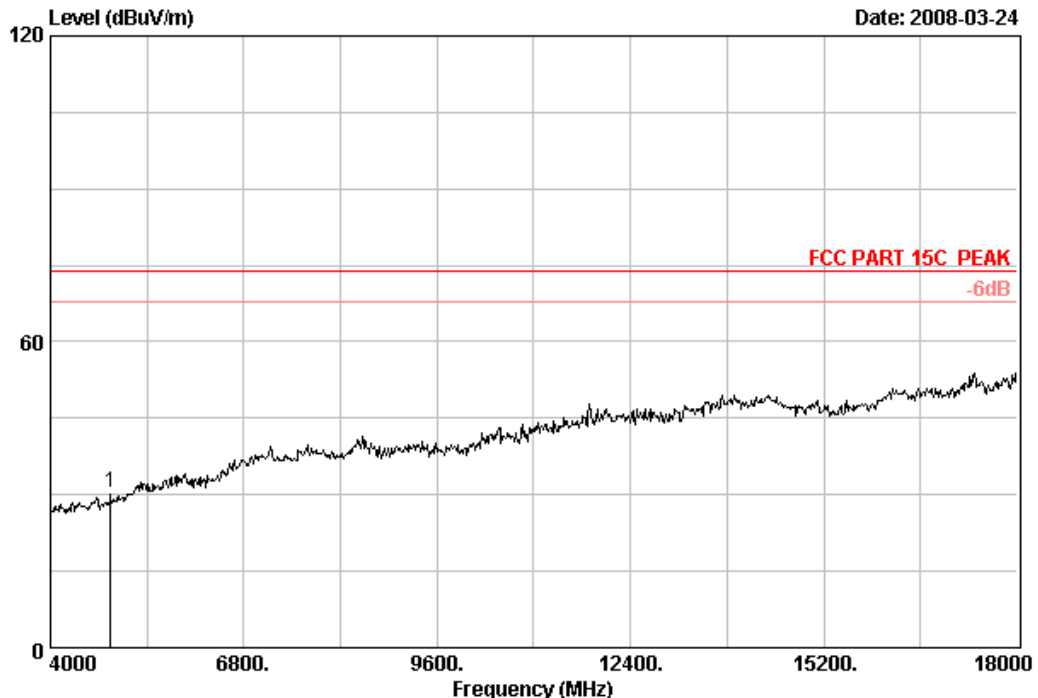


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
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Data: 133

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 133
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	20.32	30.56	74.00	43.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

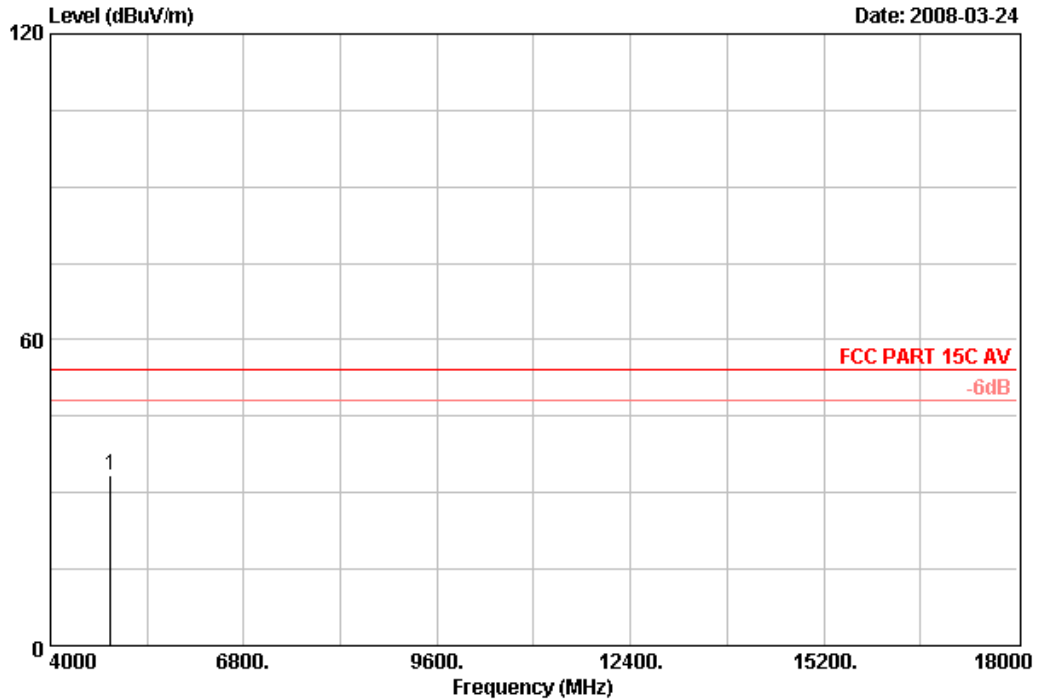


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ShenZhen Science & Industry Park
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Data: 134

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 134
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Route M/N:TL-WR841ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	10.56	34.48	23.12	33.36	54.00	20.64	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

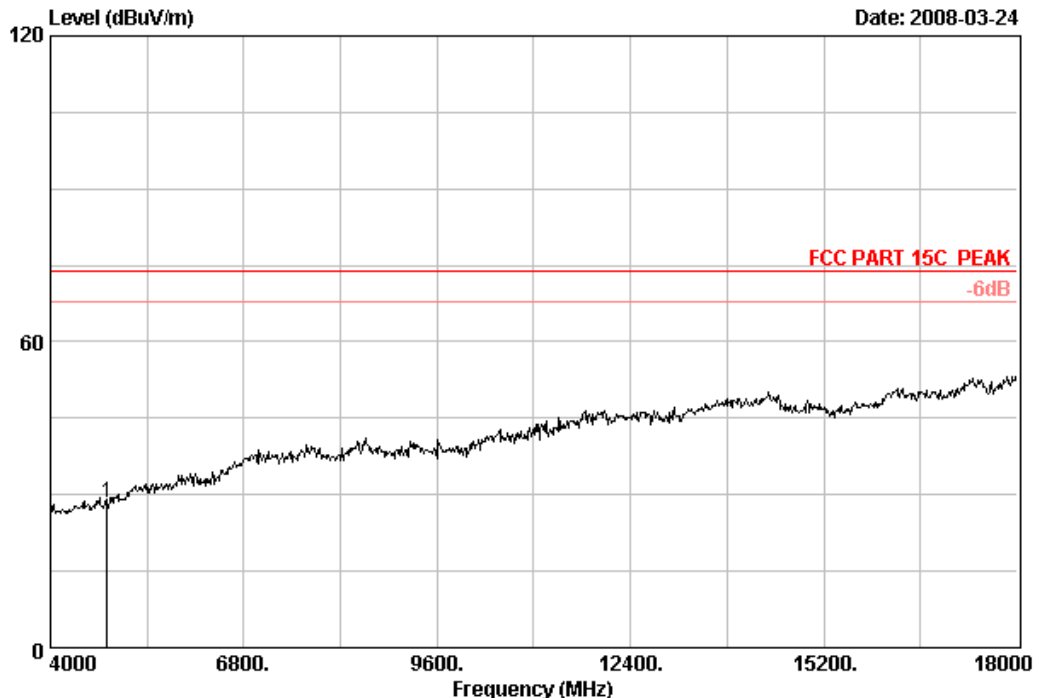


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 135

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 135
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.19	28.27	74.00	45.73	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

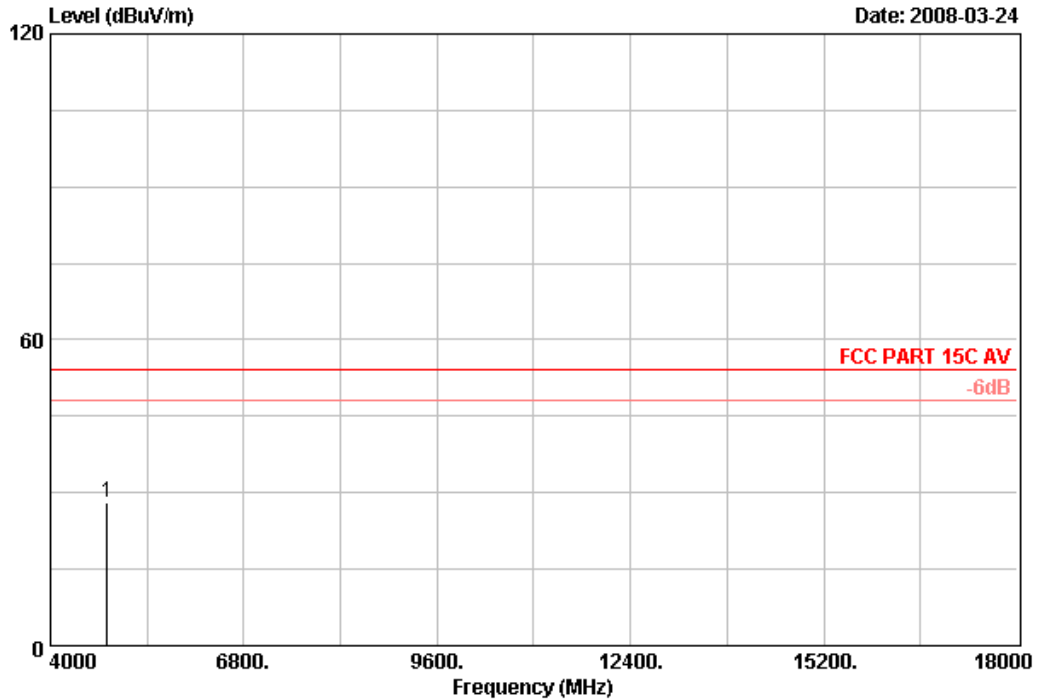


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 136

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 136
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.15	28.23	54.00	25.77	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

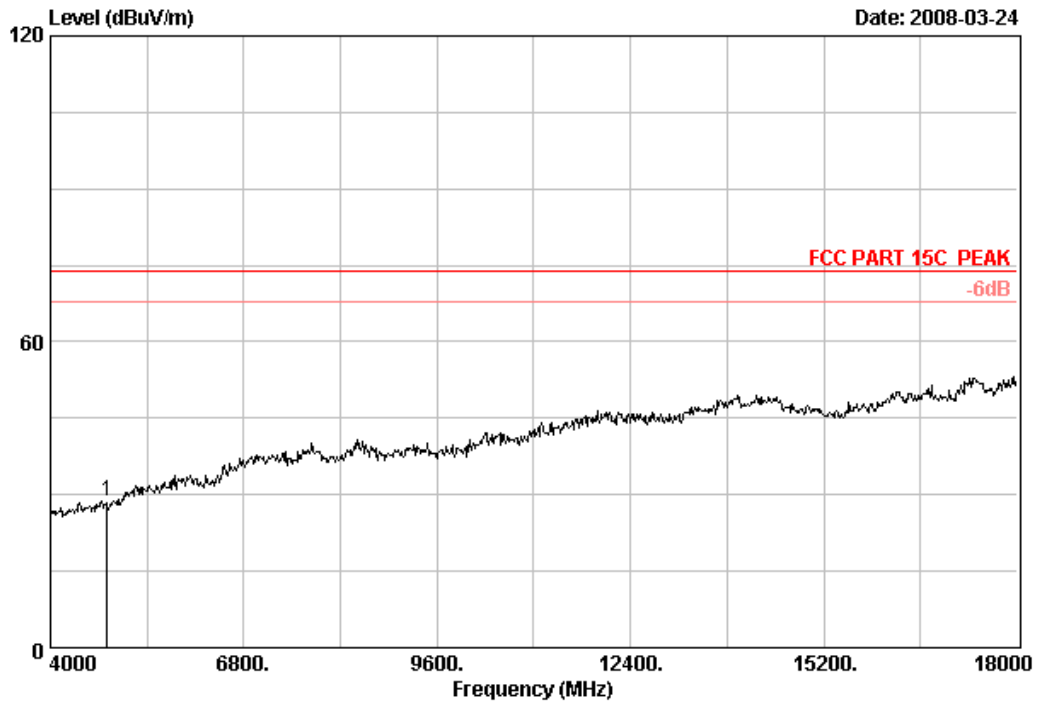


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 137

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 137
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.57	28.65	74.00	45.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

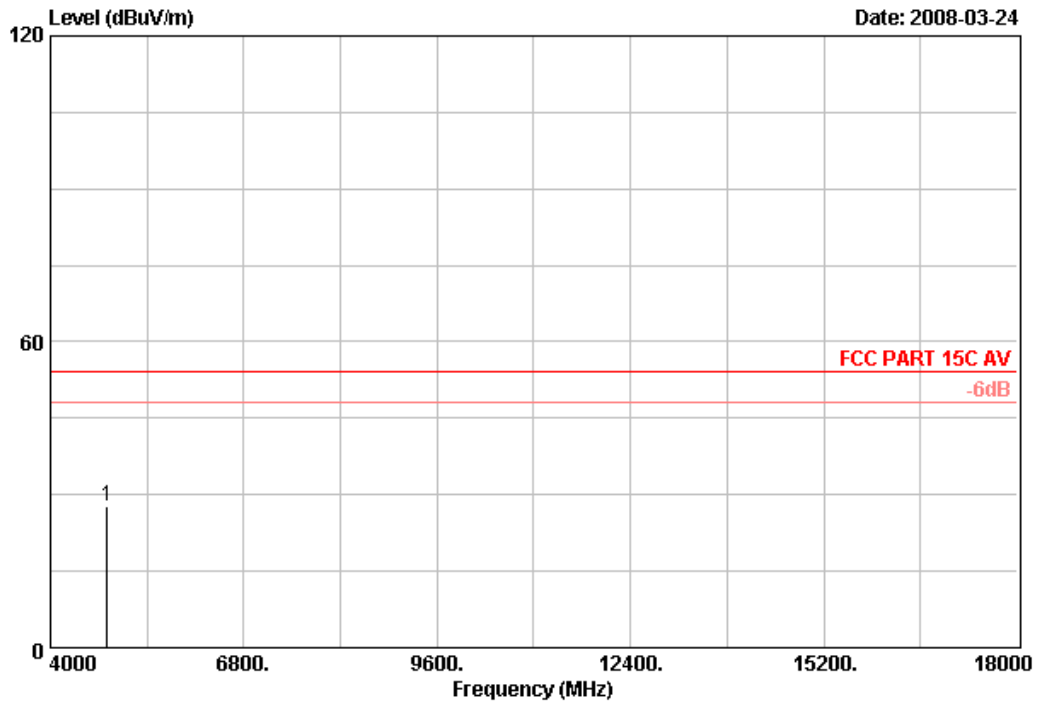


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 138

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 138
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	10.55	34.49	17.51	27.59	54.00	26.41	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

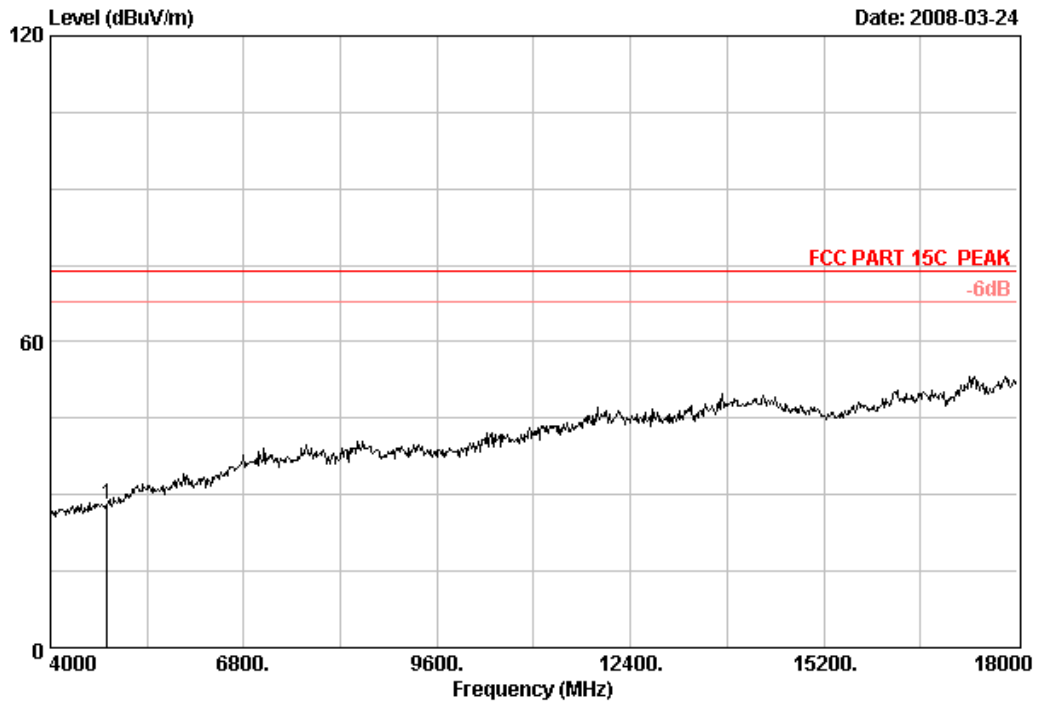


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 139

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 139
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.01	28.09	74.00	45.91	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

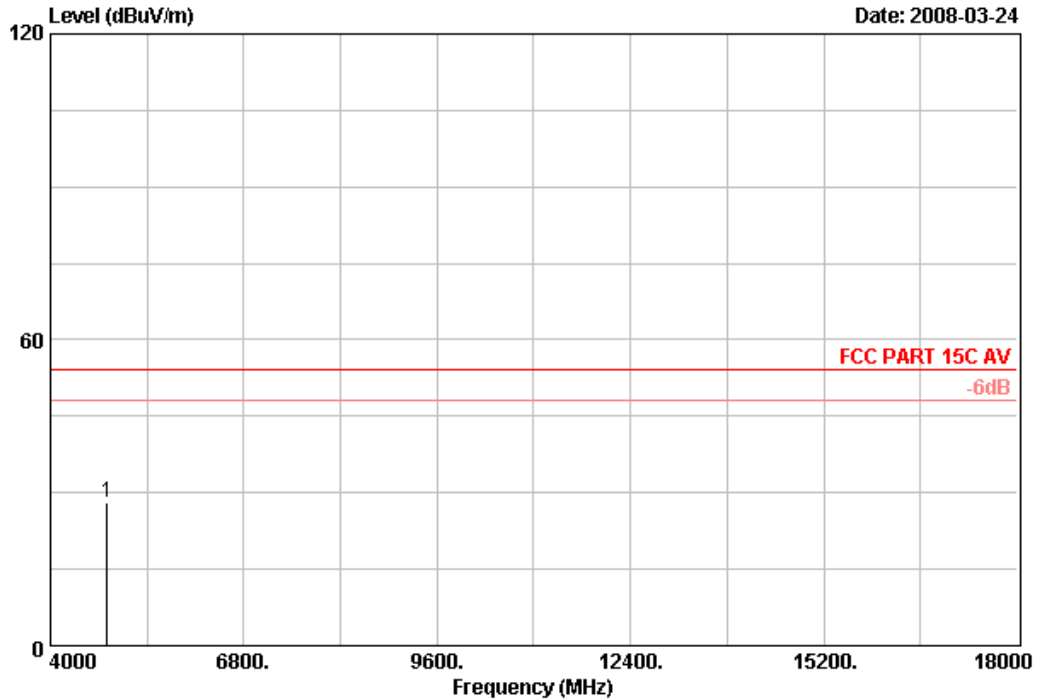


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 140

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 140
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.01	28.09	54.00	25.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

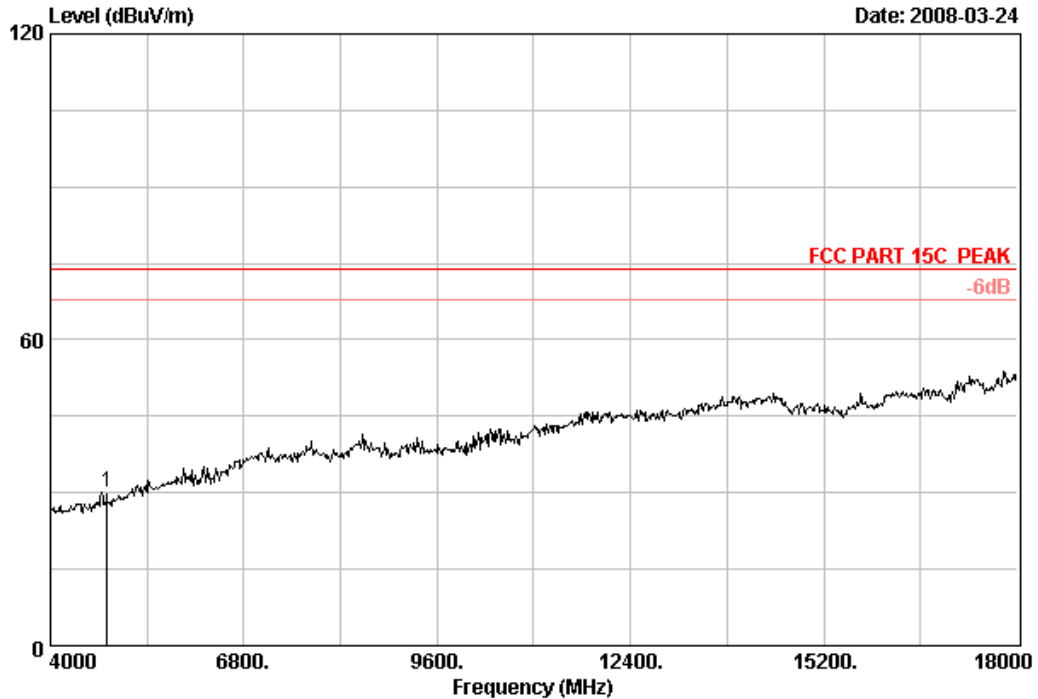


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
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Data: 141

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 141
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	10.55	34.49	20.12	30.20	74.00	43.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

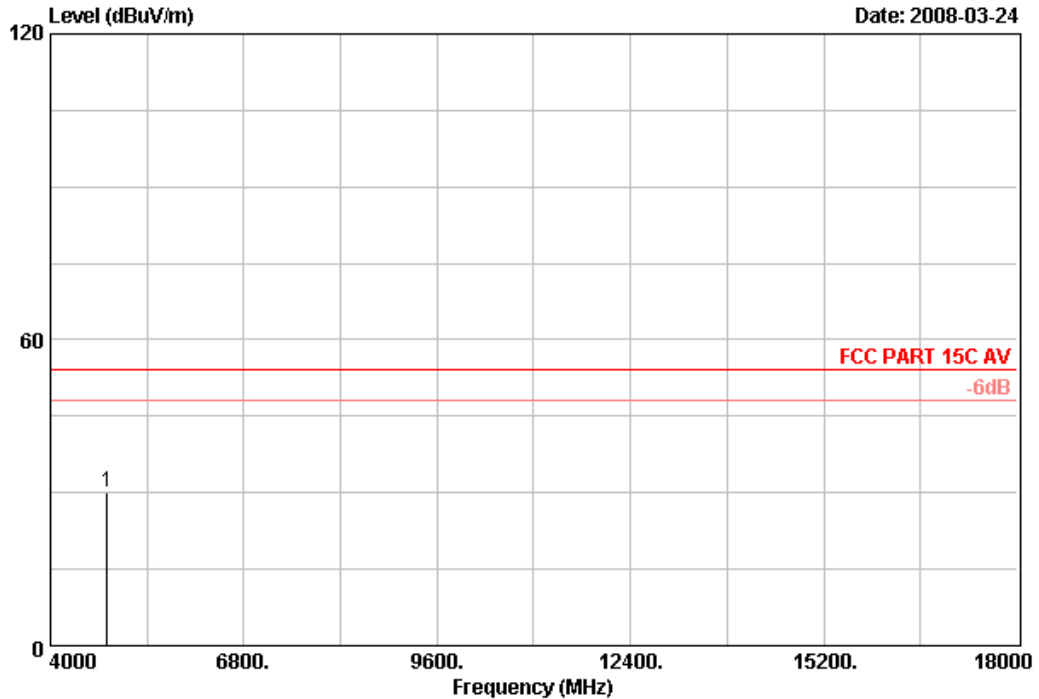


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 142

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 142
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	19.88	29.96	54.00	24.04	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

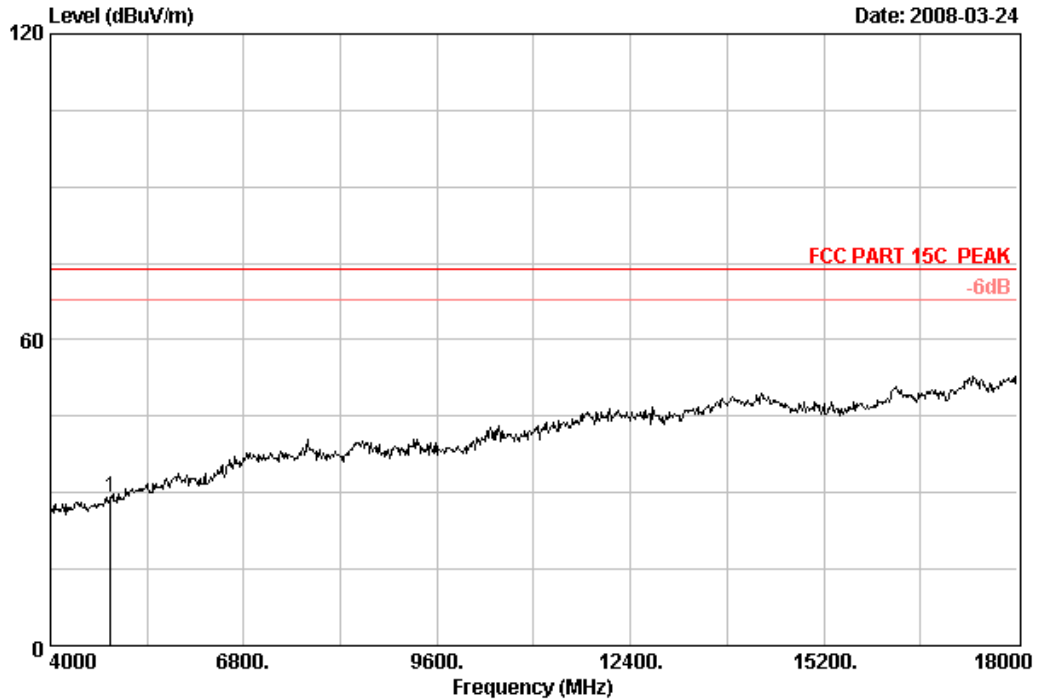


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 143

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 143
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4874.00	34.16	10.56	34.48	18.75	28.99	74.00	45.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

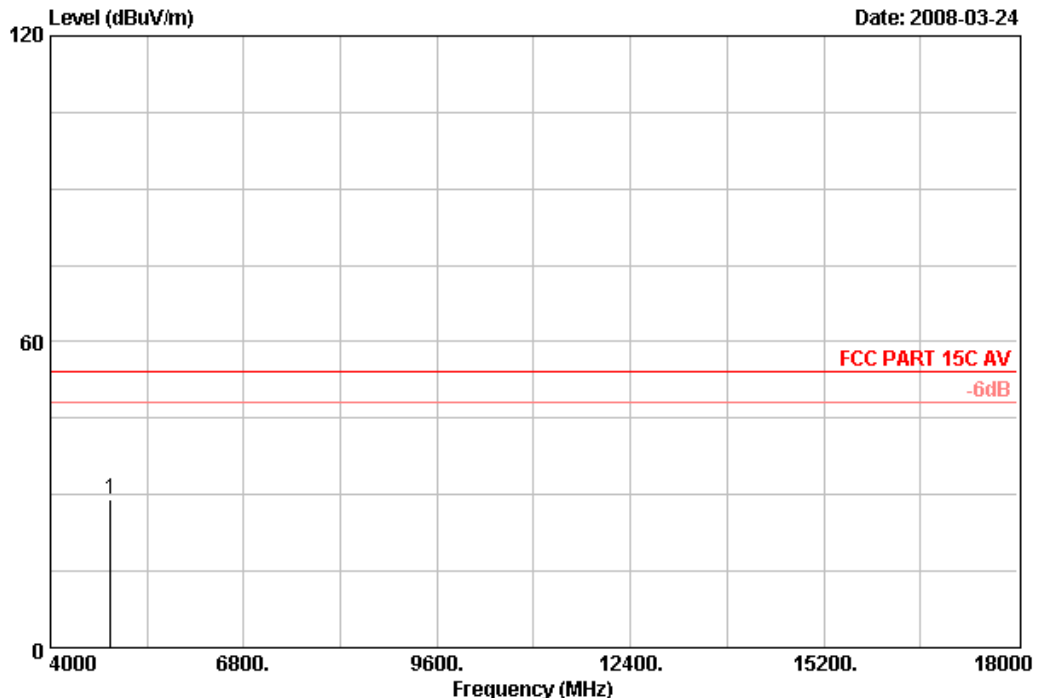


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 144

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 144
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Route M/N:TL-WR841ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	18.89	29.13	54.00	24.87	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

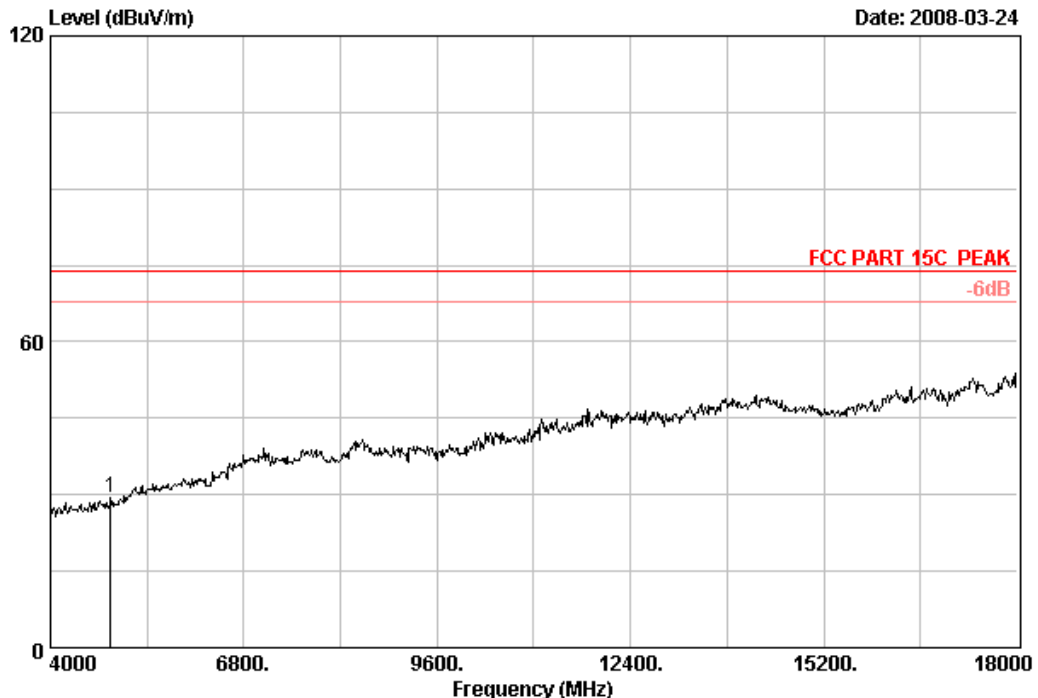


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 145

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 145
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	10.56	34.48	19.15	29.39	74.00	44.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

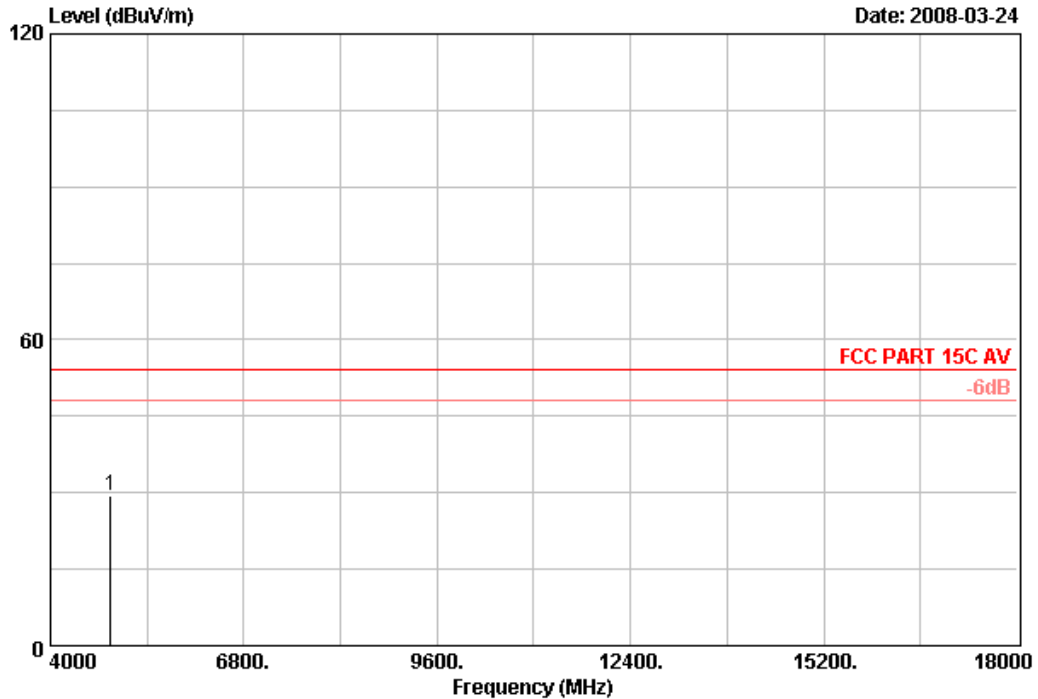


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 146

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 146
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	19.25	29.49	54.00	24.51	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

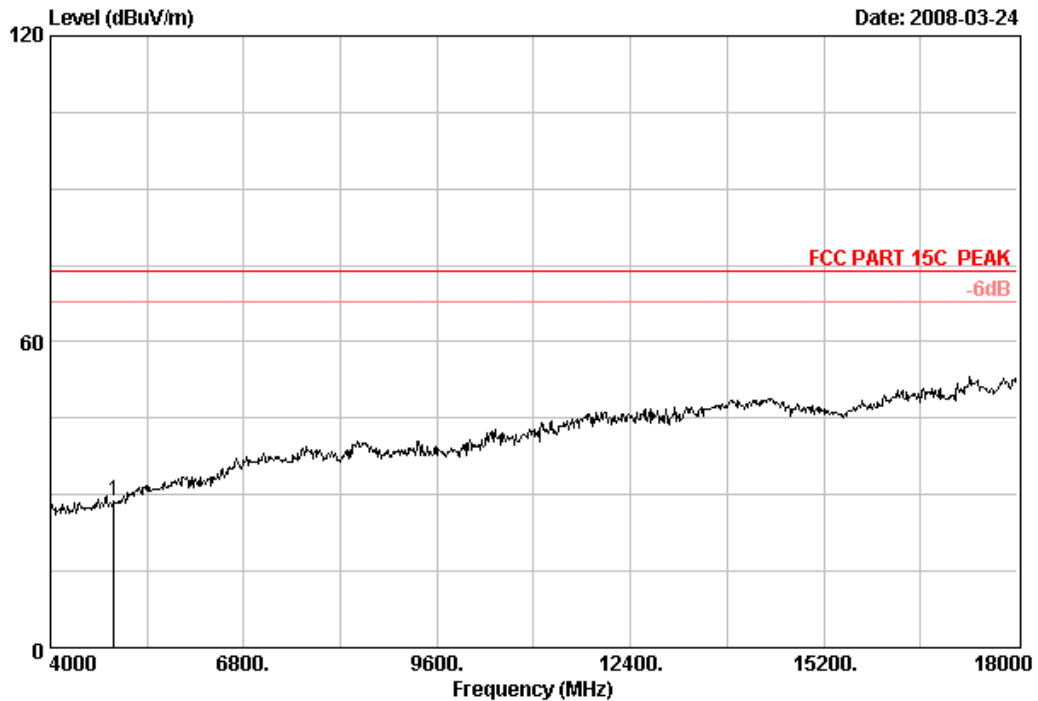


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 147

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 147
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	18.41	28.81	74.00	45.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

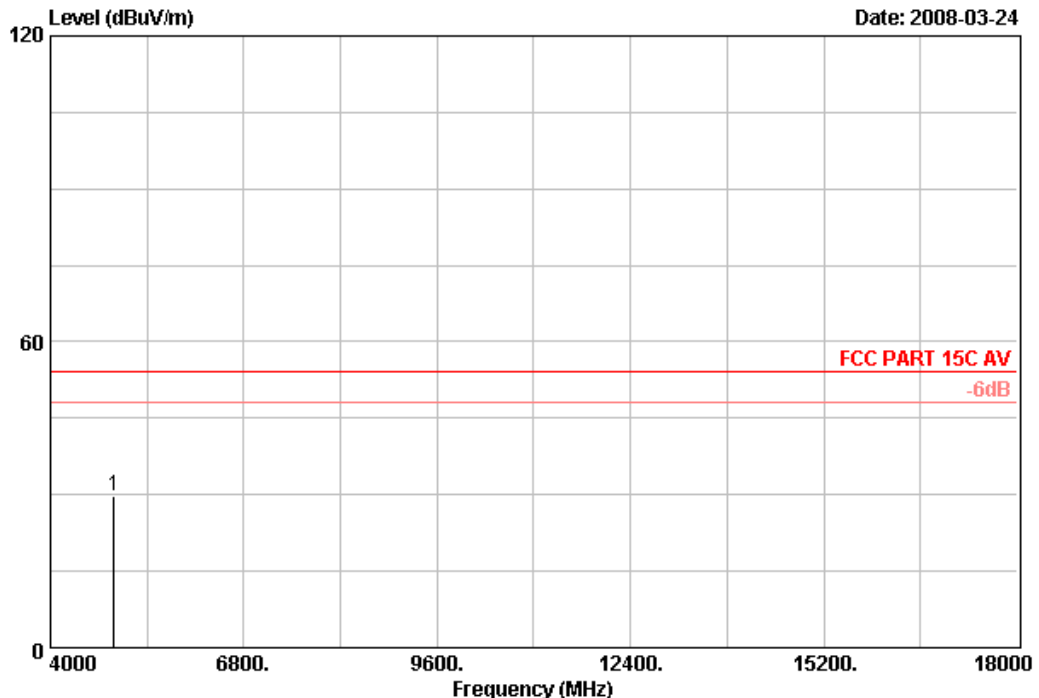


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 148

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 148
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	19.41	29.81	54.00	24.19	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

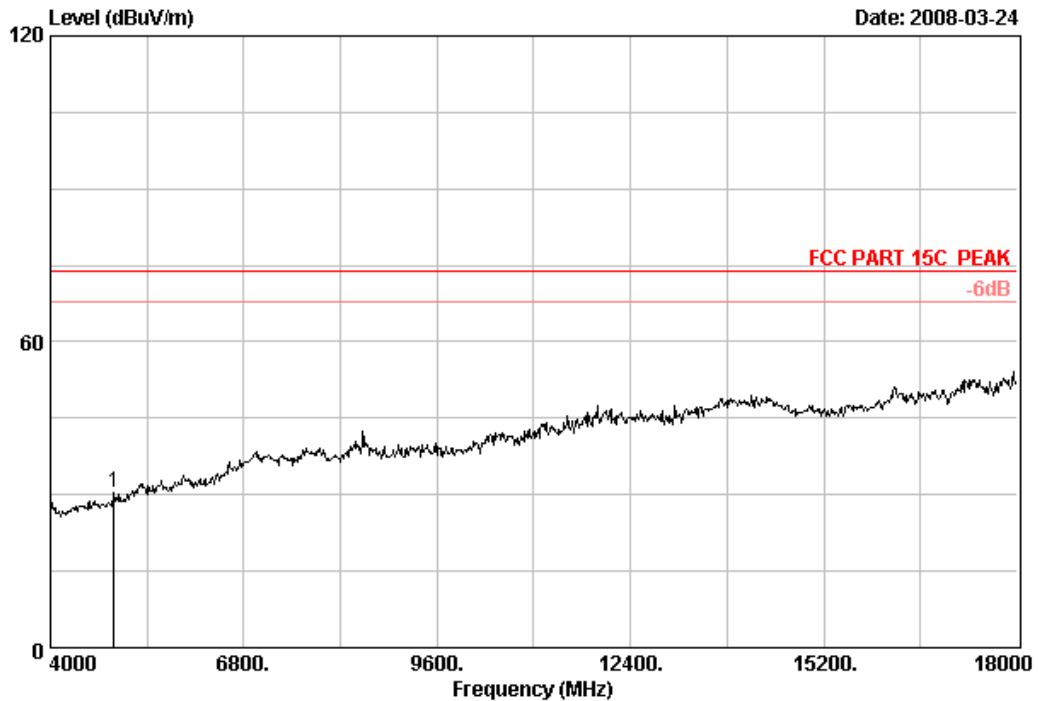


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 149

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 149
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 4924.00	34.29	10.58	34.47	20.06	30.46	74.00	43.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

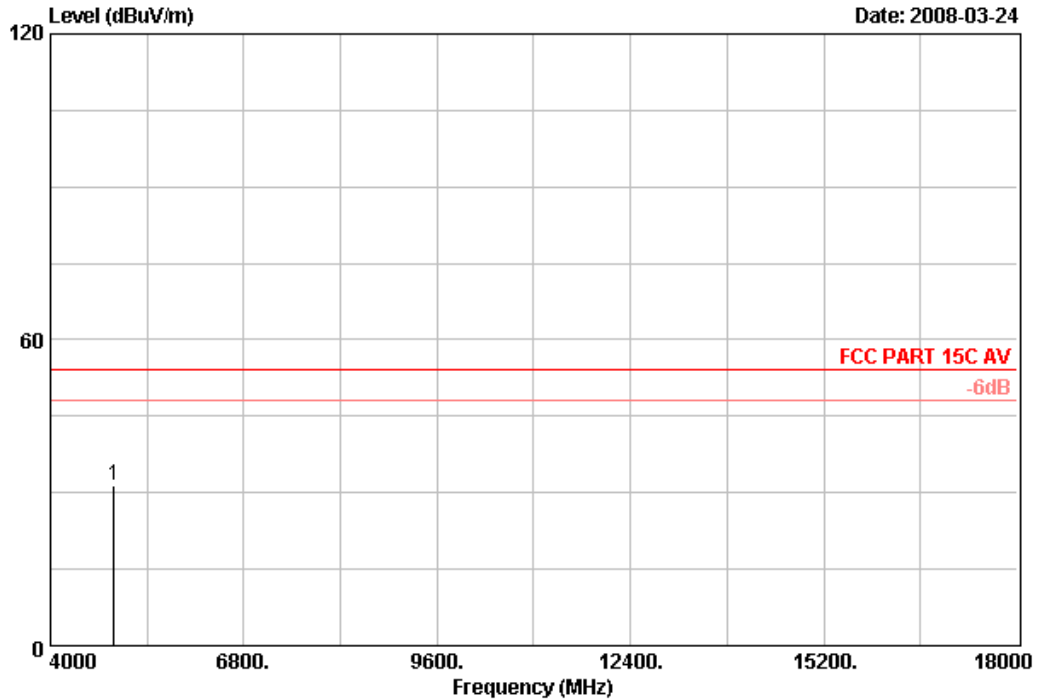


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 150

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 150
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	21.06	31.46	54.00	22.54	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

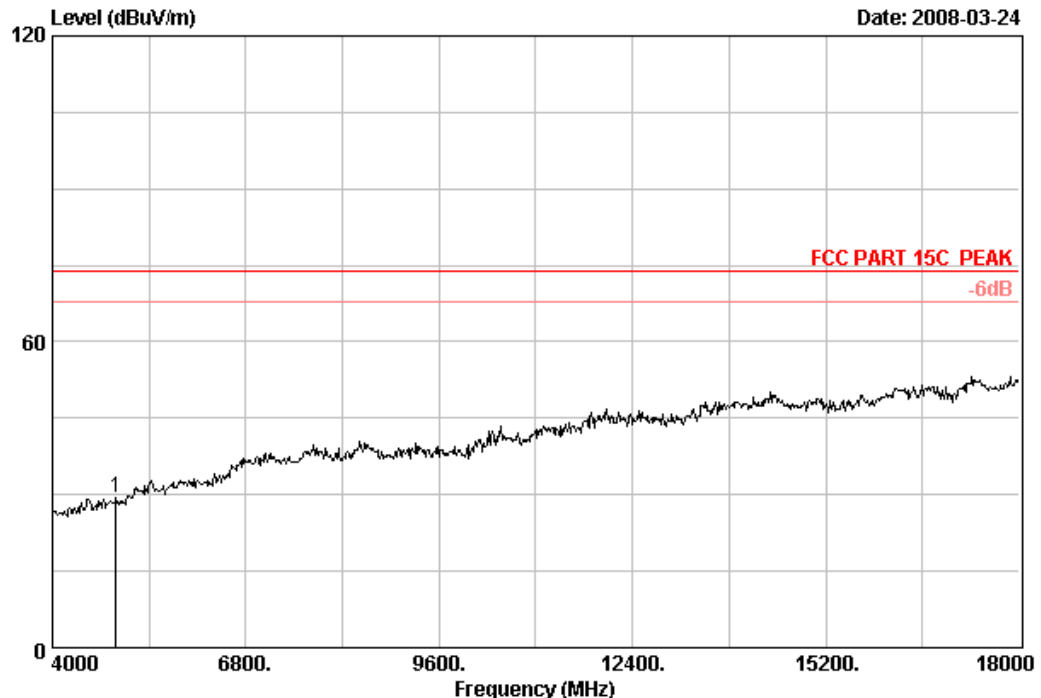


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 151

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 151
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	18.88	29.28	74.00	44.72	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

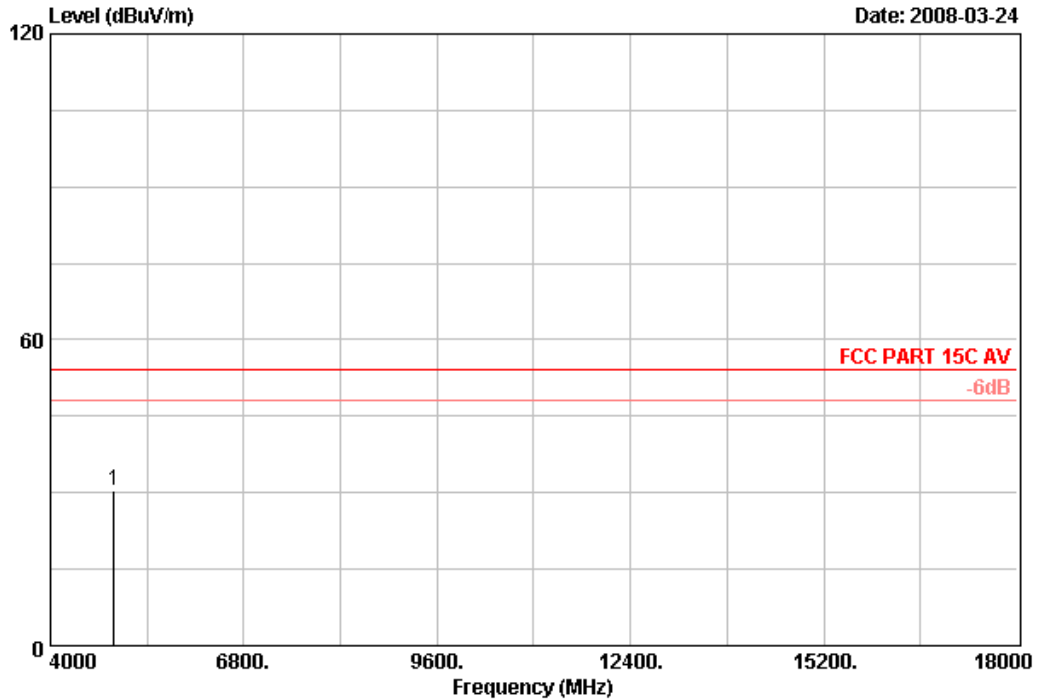


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 152

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 152
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Route M/N:TL-WR841ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	19.90	30.30	54.00	23.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

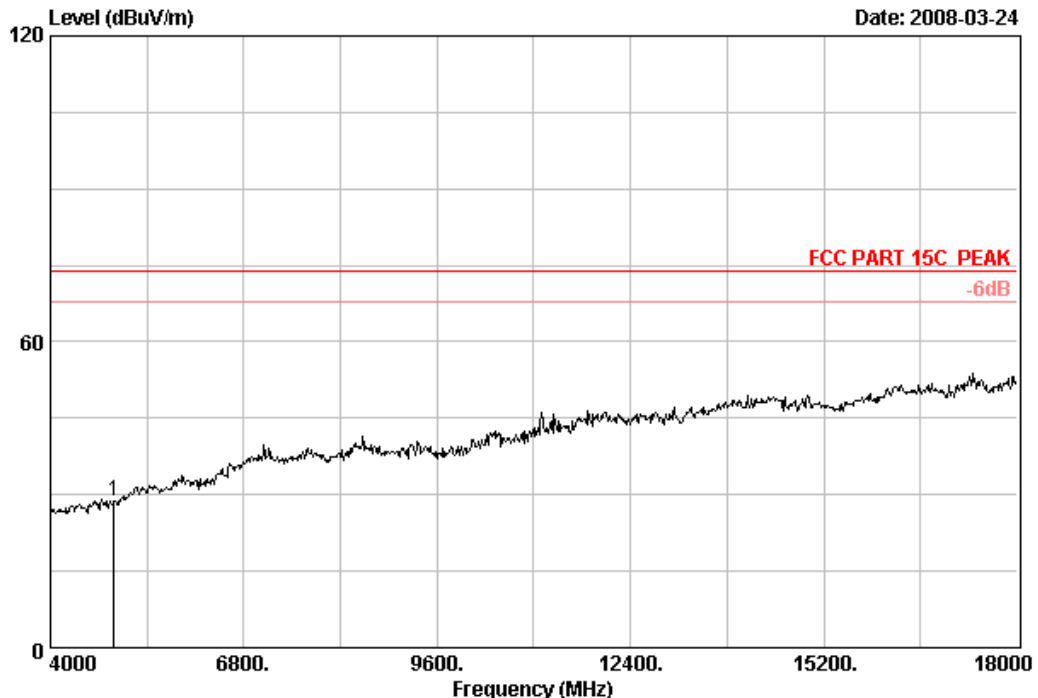


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 153

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 153
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH11:2462MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	18.40	28.80	74.00	45.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

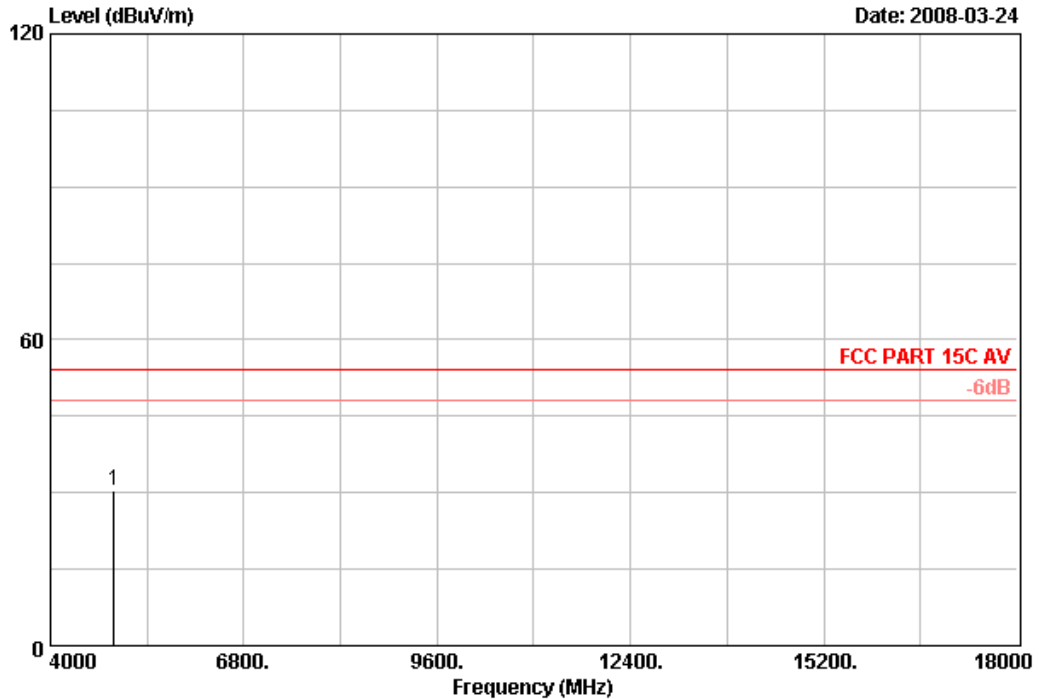


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 154

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 154
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH11:2462MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	19.96	30.36	54.00	23.64	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

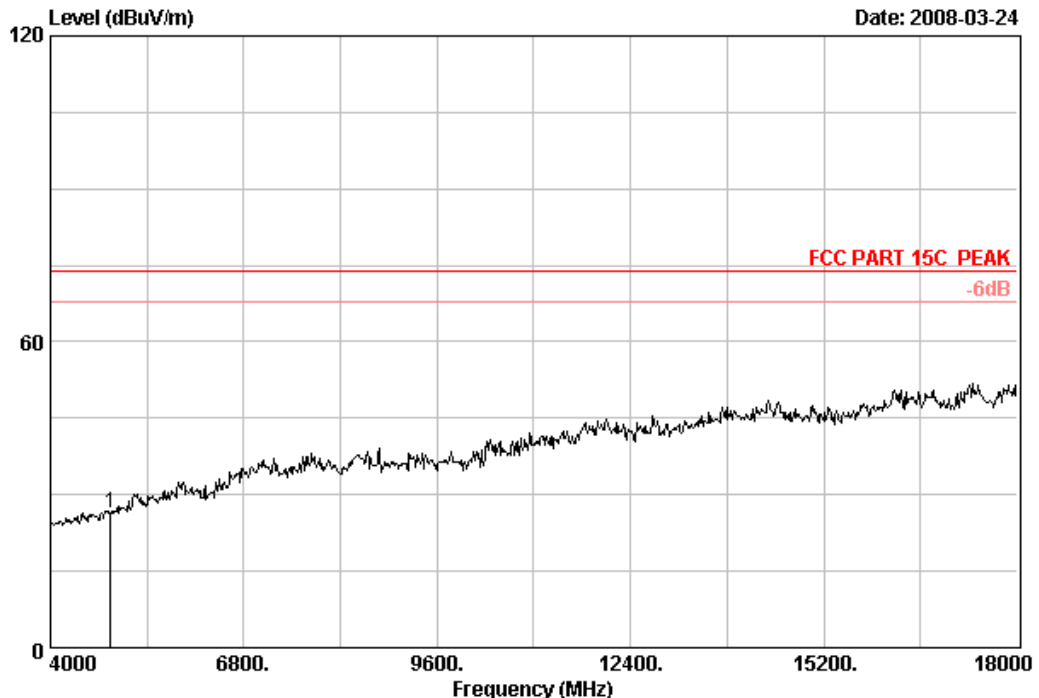


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 155

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 155
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	16.13	26.37	74.00	47.63	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

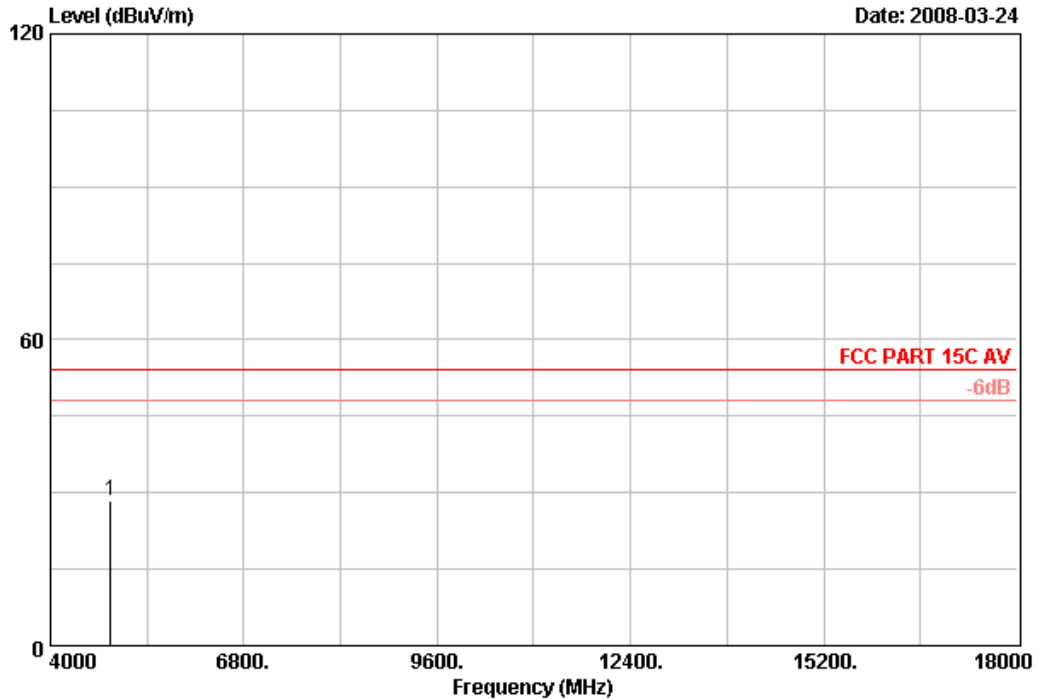


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 156

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 156
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	10.56	34.48	18.13	28.37	54.00	25.63	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

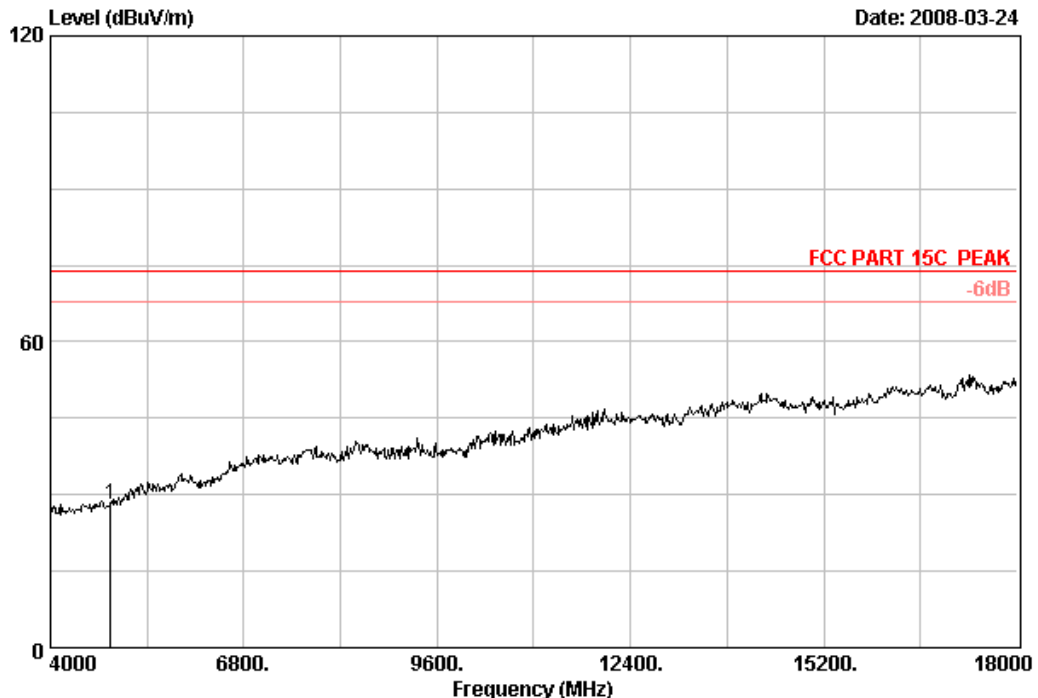


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 157

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 157
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	17.83	28.07	74.00	45.93	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

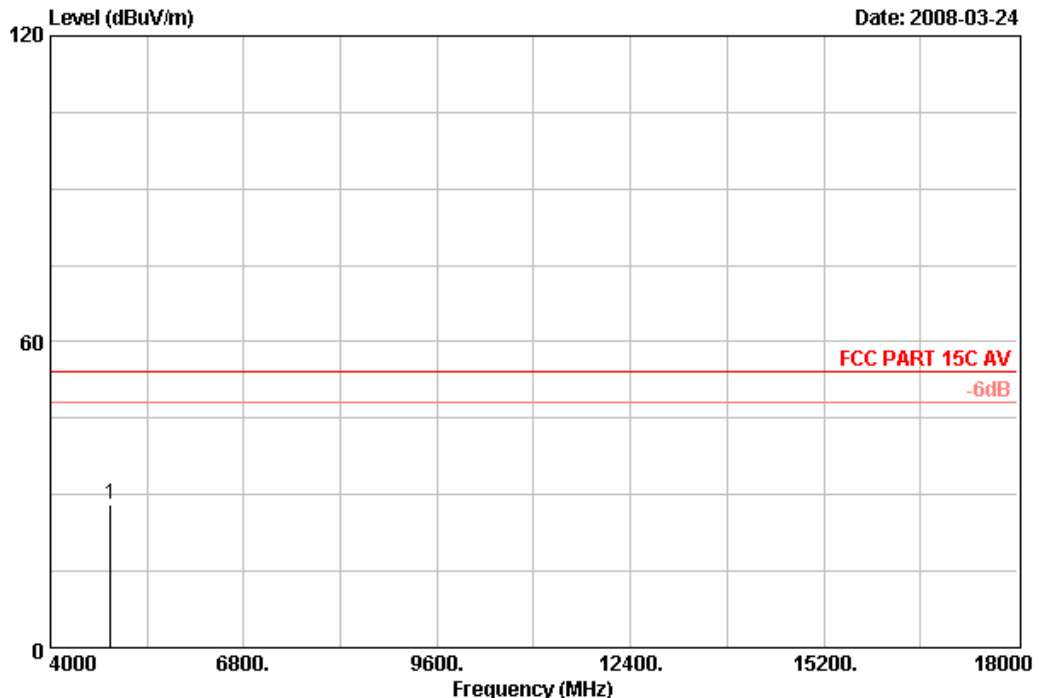


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 158

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 158
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Route M/N:TL-WR841ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH6:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	17.83	28.07	54.00	25.93	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

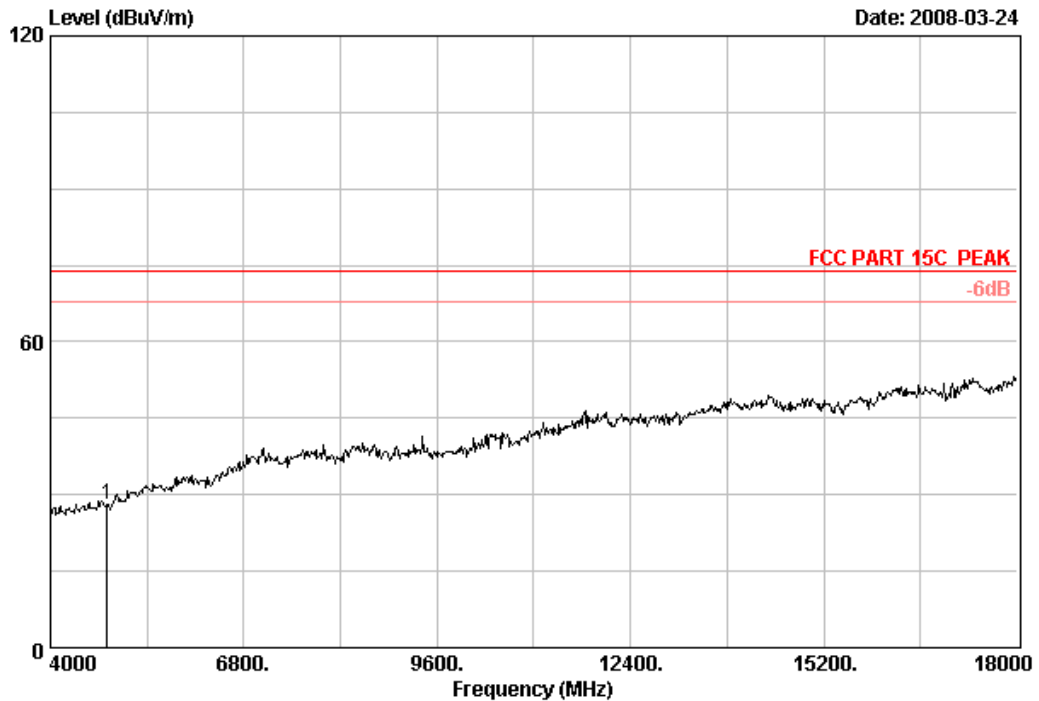


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 159

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 159
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	10.55	34.49	17.91	27.99	74.00	46.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

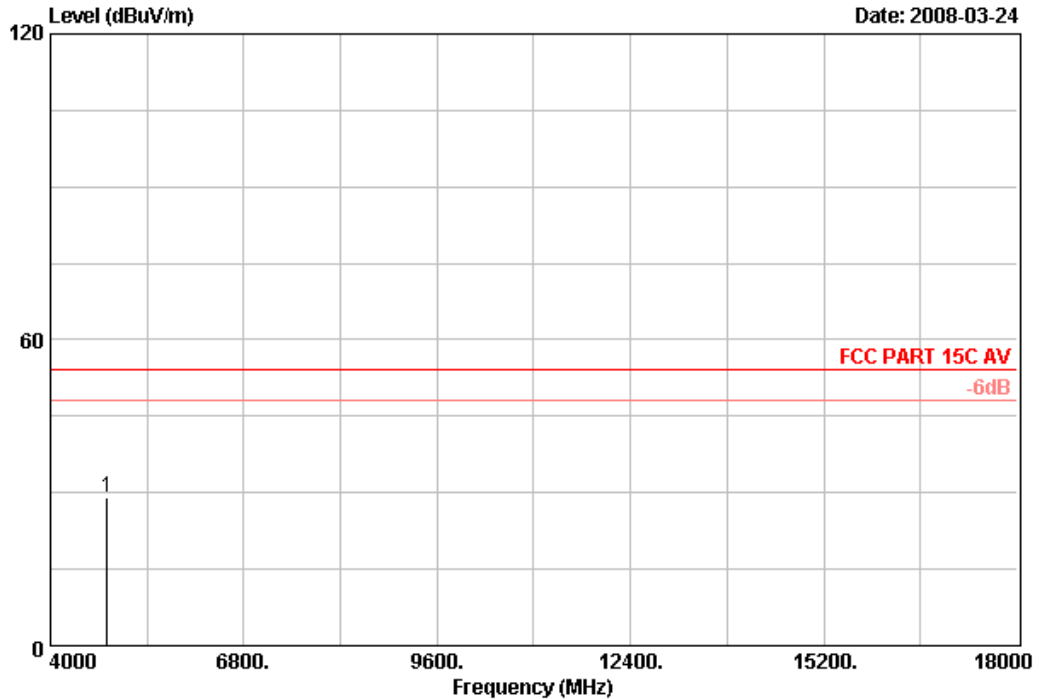


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 160

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 160
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.91	28.99	54.00	25.01	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

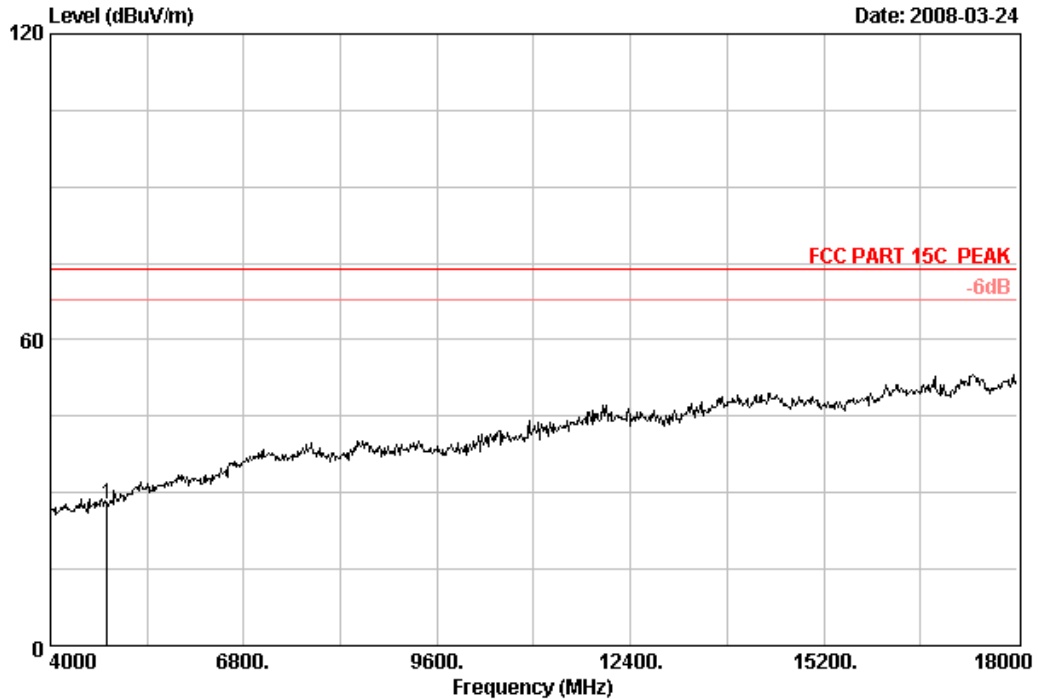


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 161

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 161
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	17.78	27.86	74.00	46.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

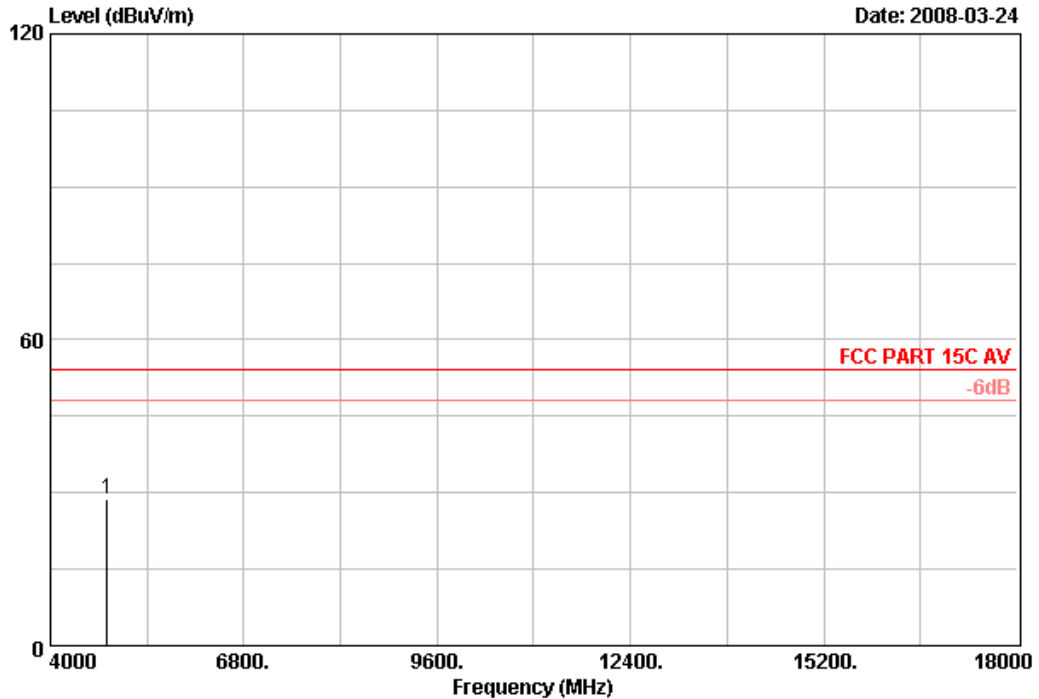


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 162

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 162
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	18.78	28.86	54.00	25.14	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

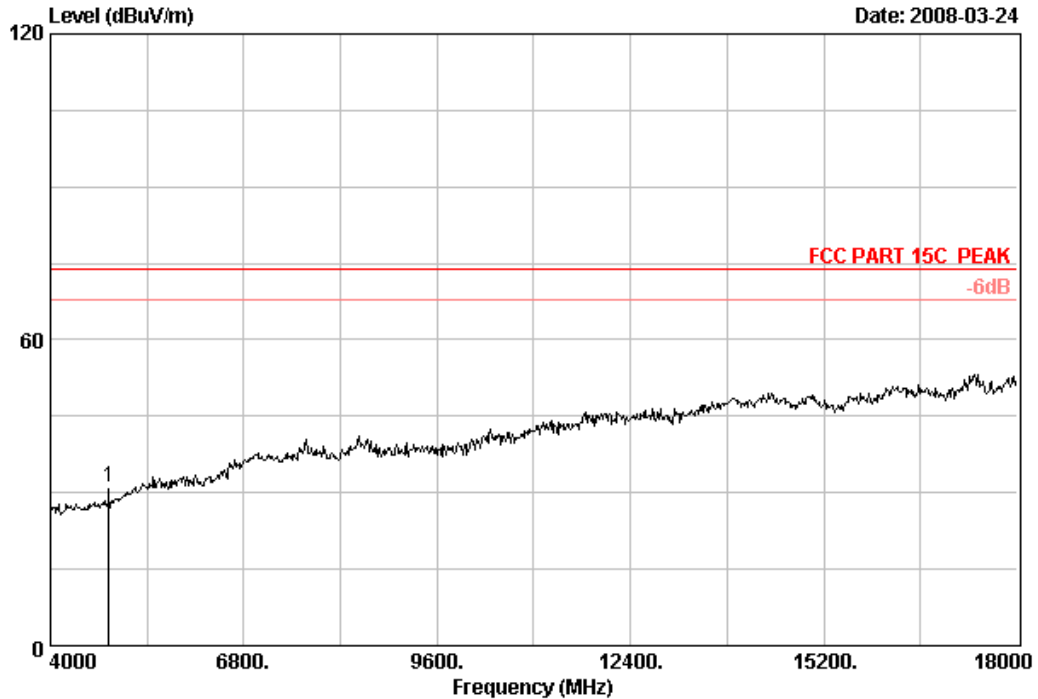


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 163

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 163
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2422MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4844.00	34.07	10.56	34.49	20.88	31.02	74.00	42.98	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

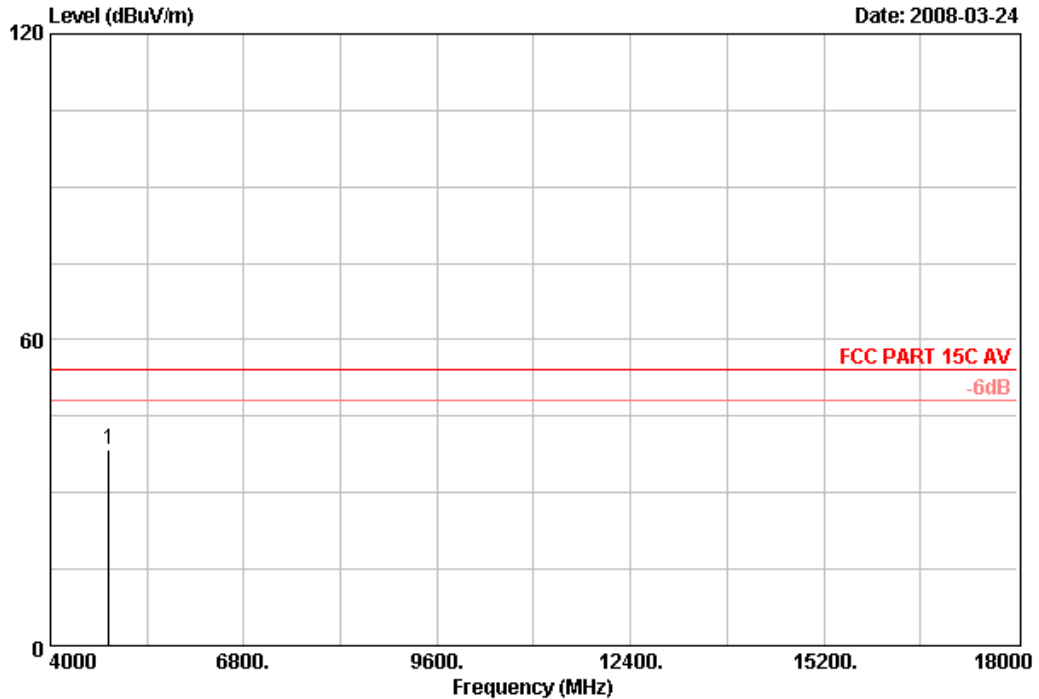


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 164

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 164
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2422MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4844.00	34.07	10.56	34.49	28.24	38.38	54.00	15.62	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

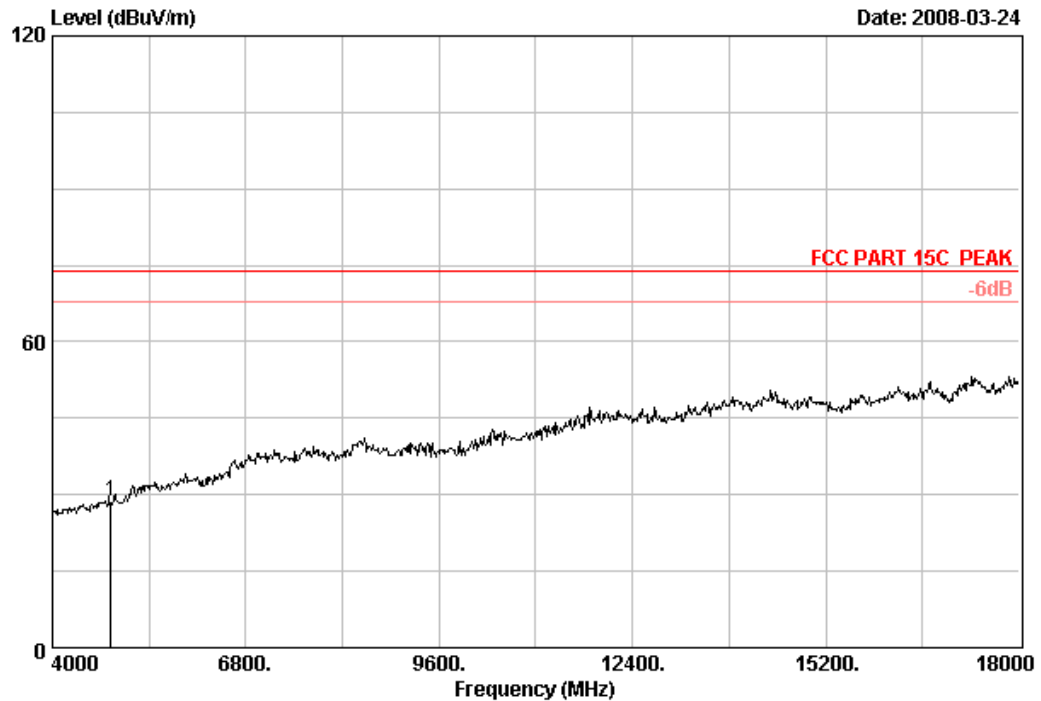


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 165

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 165
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2422MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.00	34.07	10.56	34.49	18.53	28.67	74.00	45.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

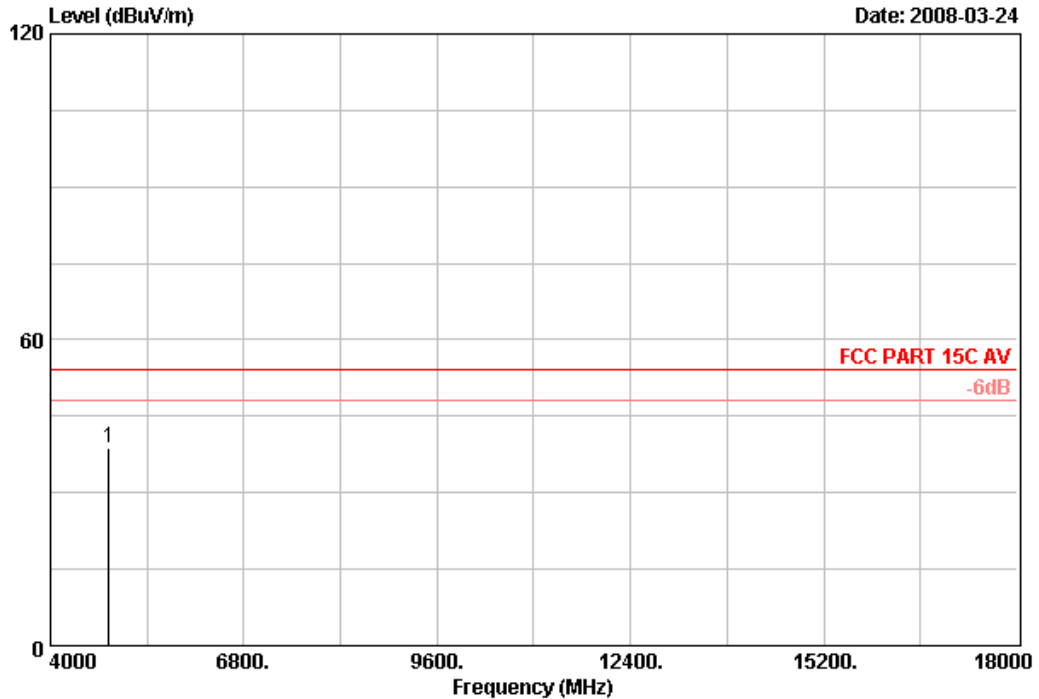


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 166

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 166
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2422MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4844.00	34.07	10.56	34.49	28.62	38.76	54.00	15.24	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

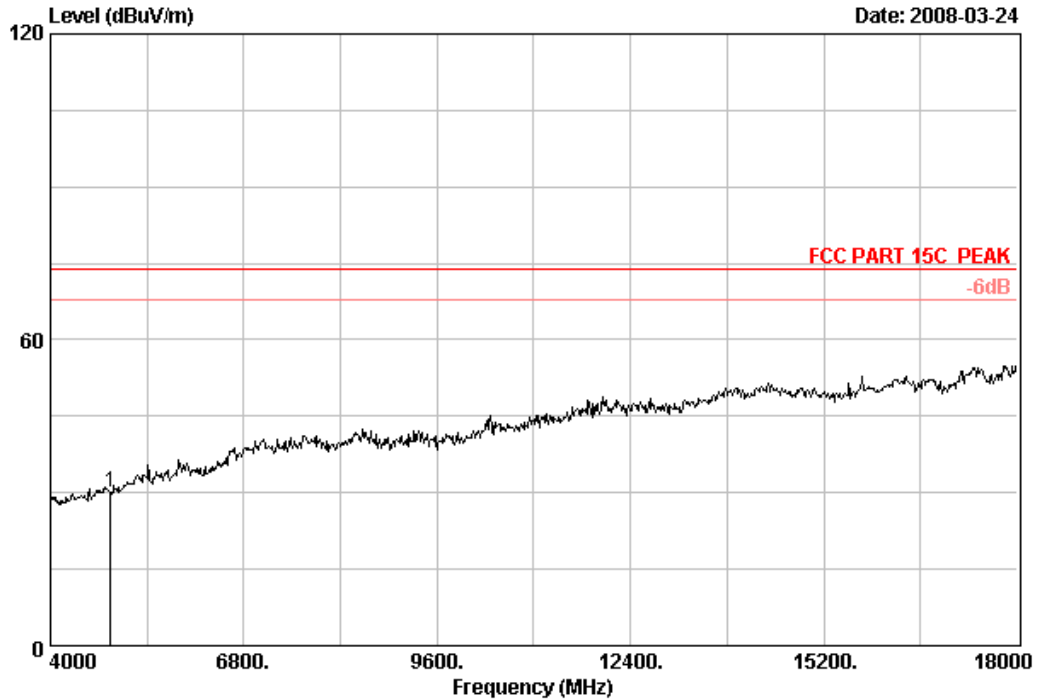


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
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Data: 167

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 167
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH4:2437MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	19.83	30.07	74.00	43.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

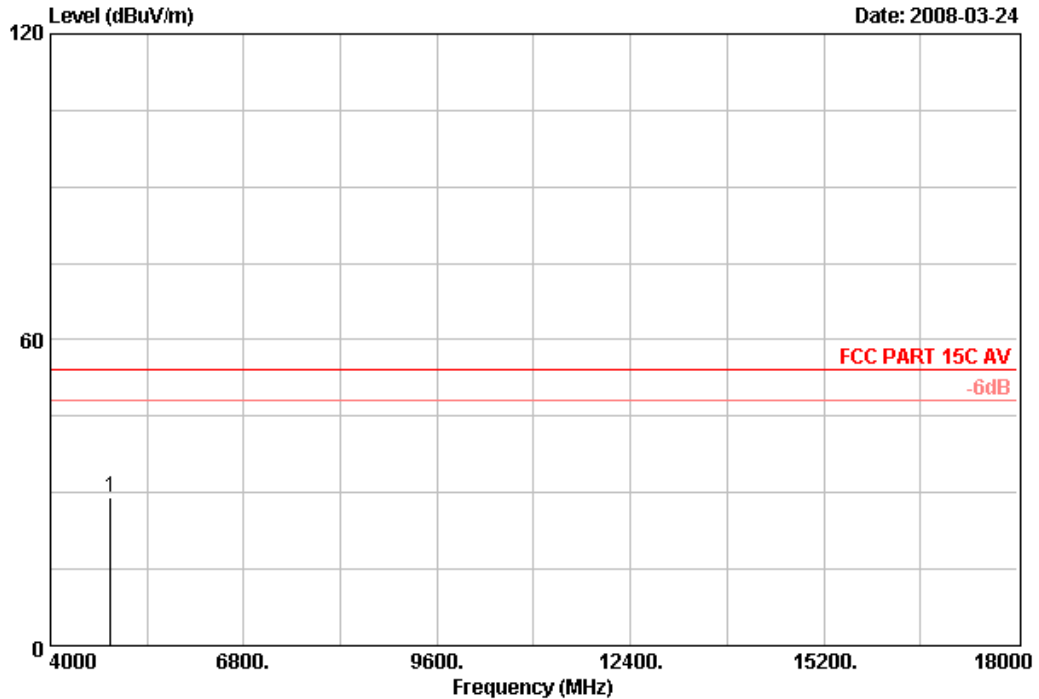


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 168

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 168
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH4:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	18.83	29.07	54.00	24.93	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

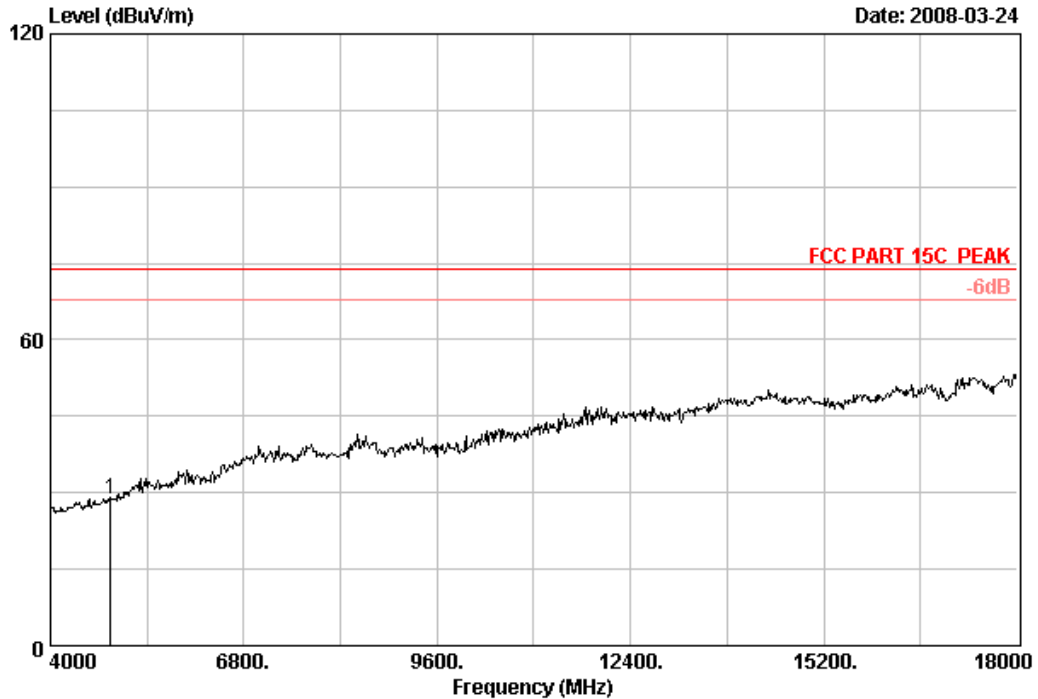


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 169

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 169
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH4:2437MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	10.56	34.48	18.66	28.90	74.00	45.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

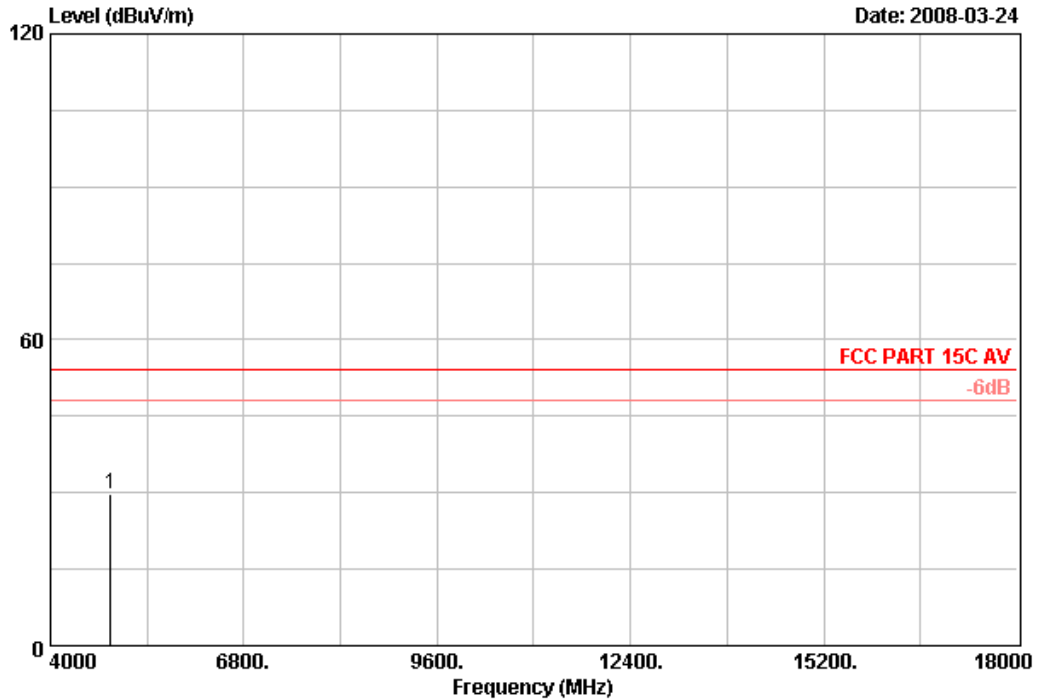


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 170

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 170
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH4:2437MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	19.66	29.90	54.00	24.10	
								Average	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

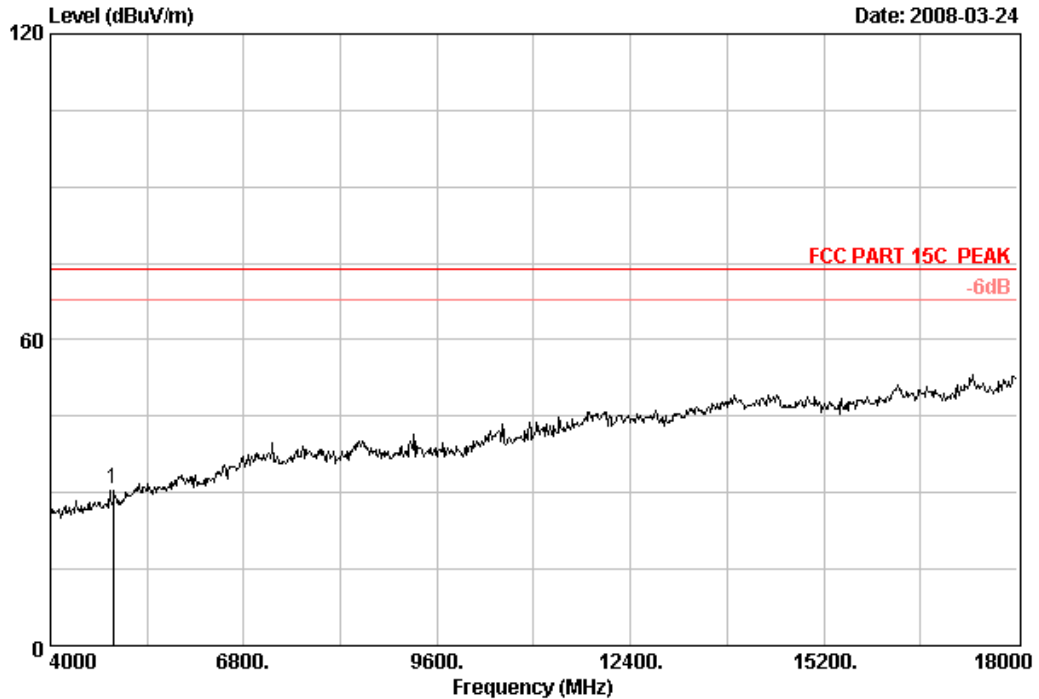


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 171

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 171
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.00	34.25	10.58	34.48	20.45	30.80	74.00	43.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

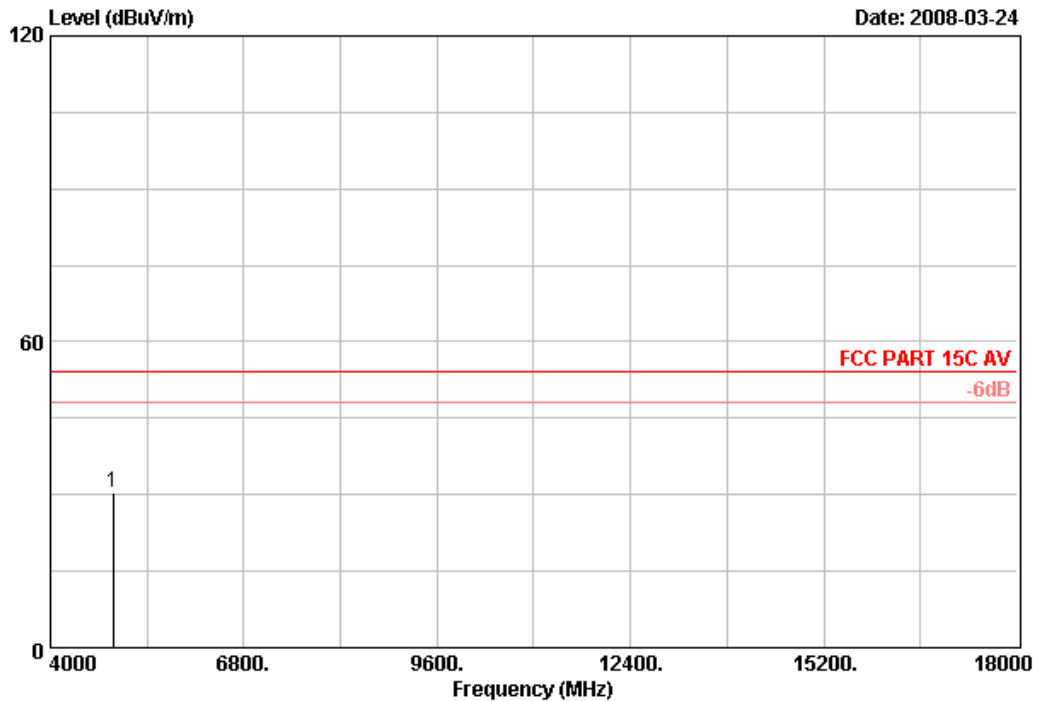


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 172

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 172
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.00	34.25	10.58	34.48	20.15	30.50	54.00	23.50	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

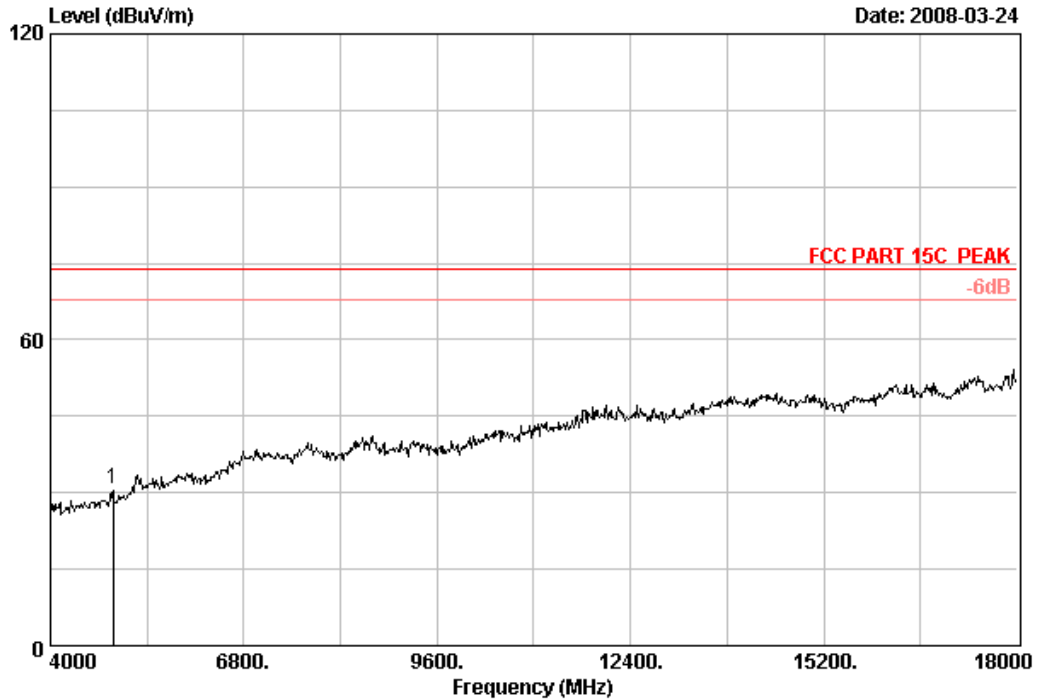


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 173

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 173
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4904.00	34.25	10.58	34.48	20.25	30.60	74.00	43.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

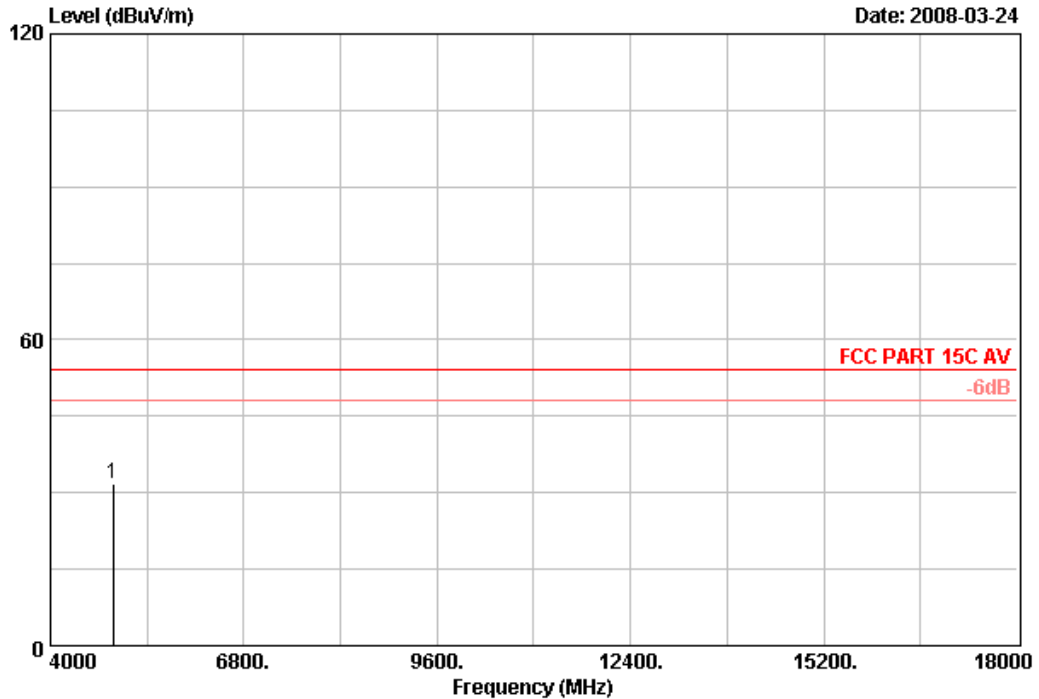


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 174

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (174)

Date: 2008-03-24



Site no. : RF Chamber Data no. : 174
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.00	34.25	10.58	34.48	21.56	31.91	54.00	22.09	Average

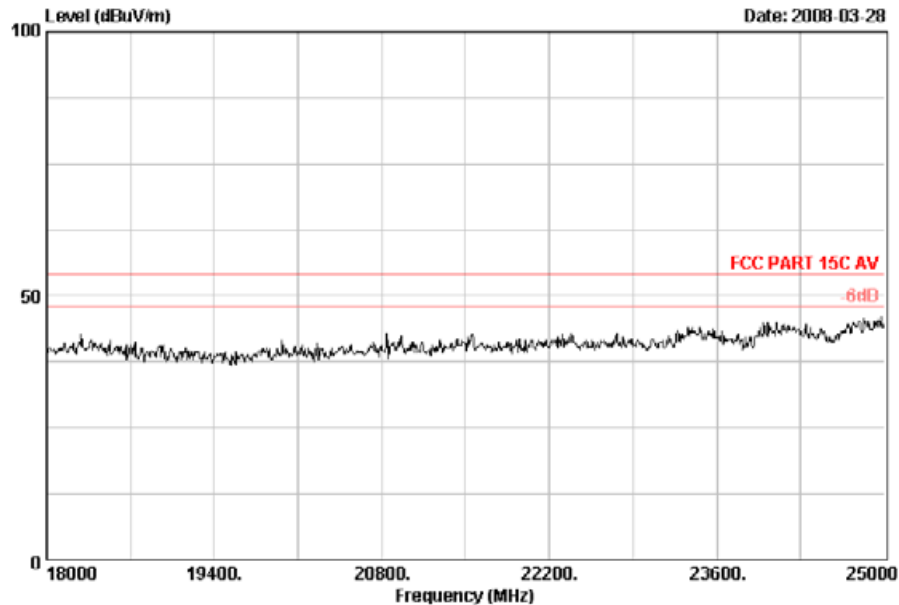
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 18GHz~25GHz



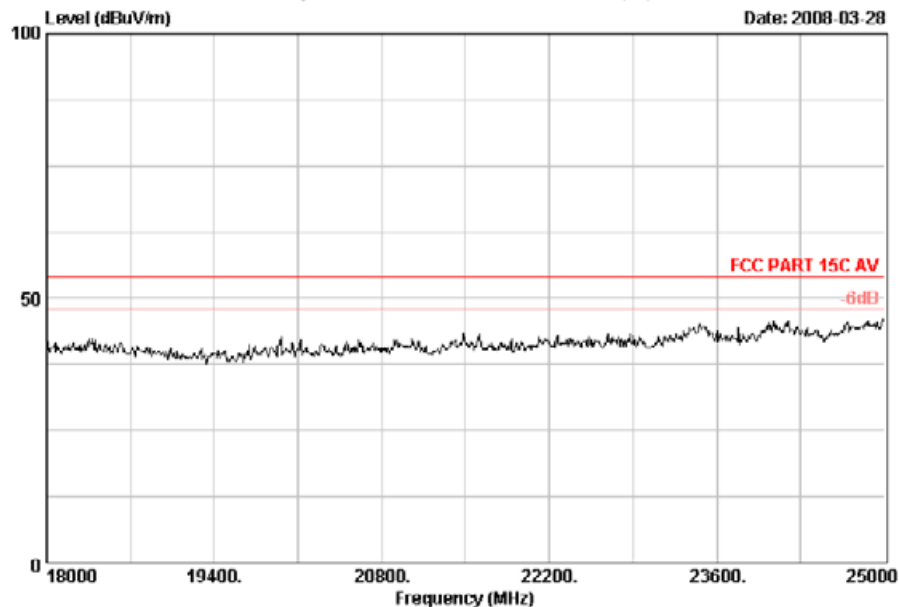
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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Postcode:518057

Data: 95 File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (96) Date: 2008-03-28



Site no. : 3m Chamber Data no. : 95
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx
Memo :

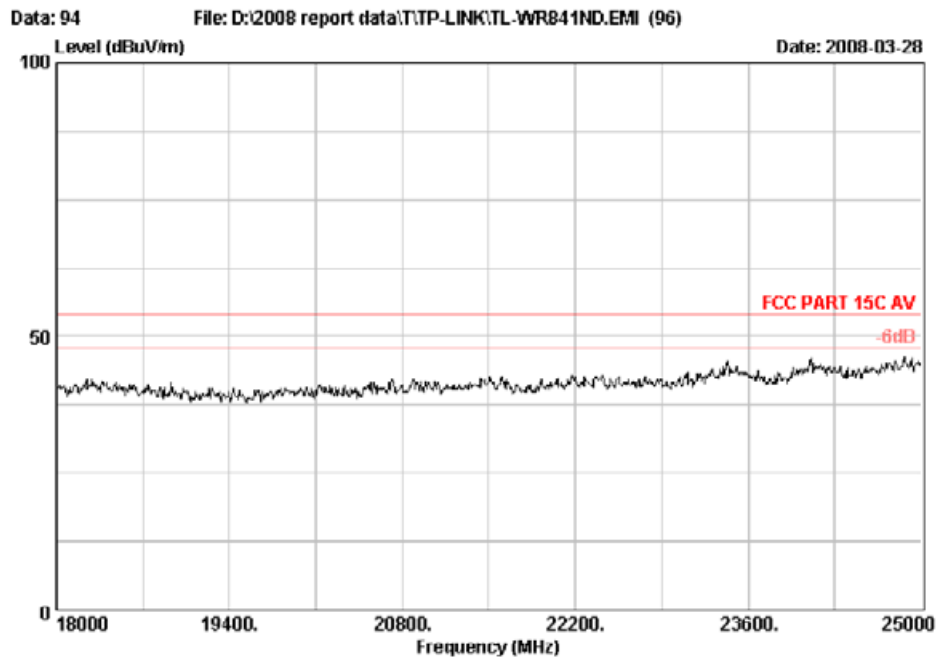
Data: 96 File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (96) Date: 2008-03-28



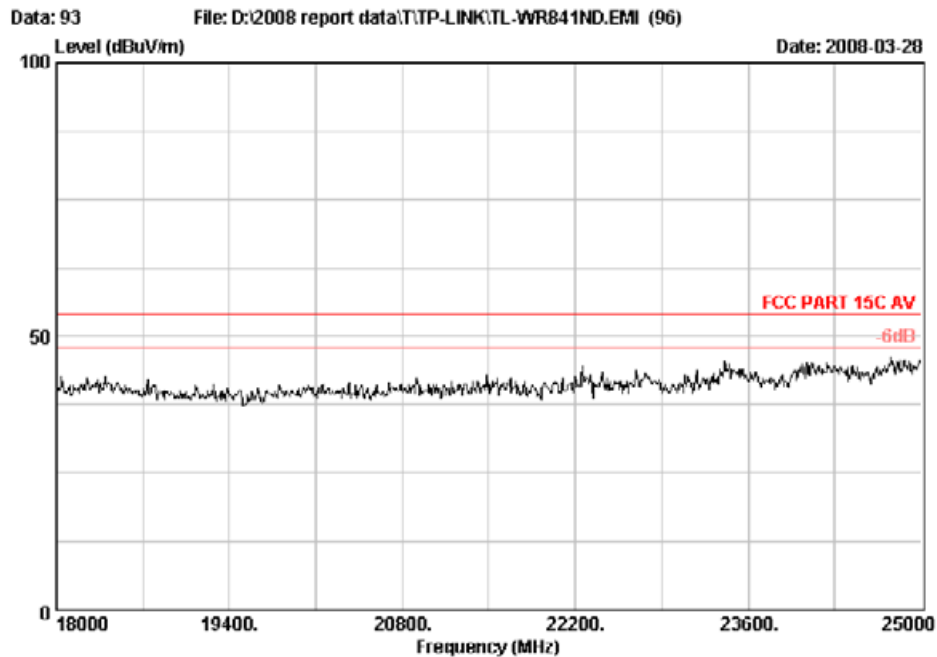
Site no. : 3m Chamber Data no. : 96
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx
Memo :



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



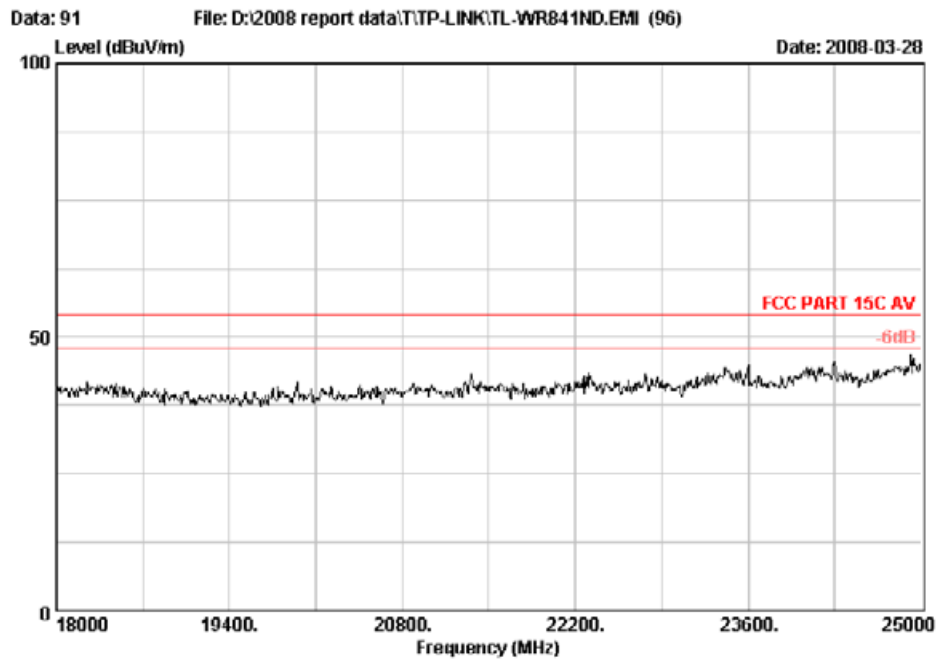
Site no. : 3m Chamber Data no. : 94
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx
Memo :



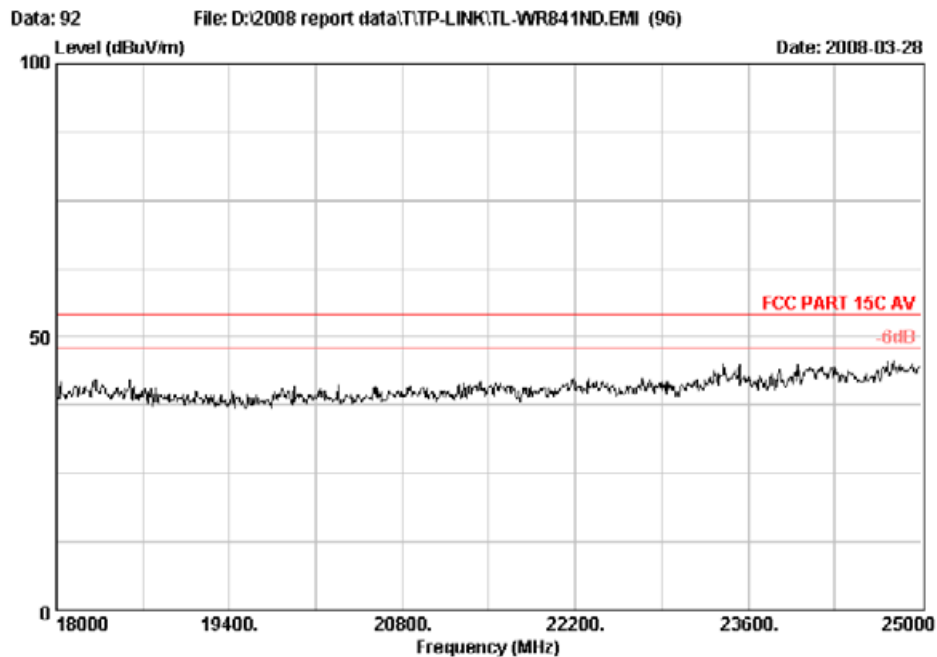
Site no. : 3m Chamber Data no. : 93
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH6:2437MHz Tx
Memo :



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



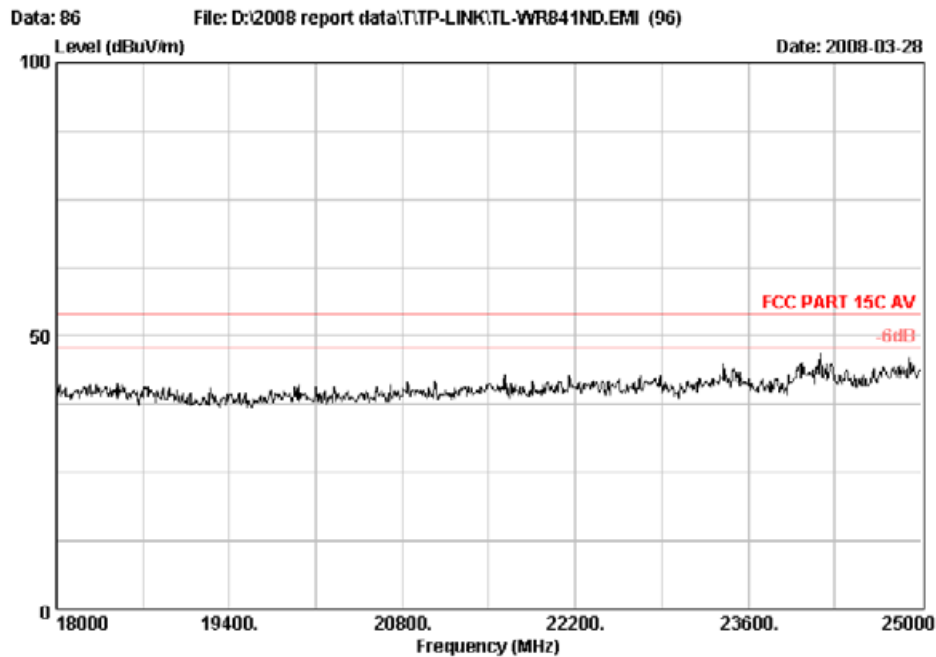
Site no. : 3m Chamber Data no. : 91
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx
Memo :



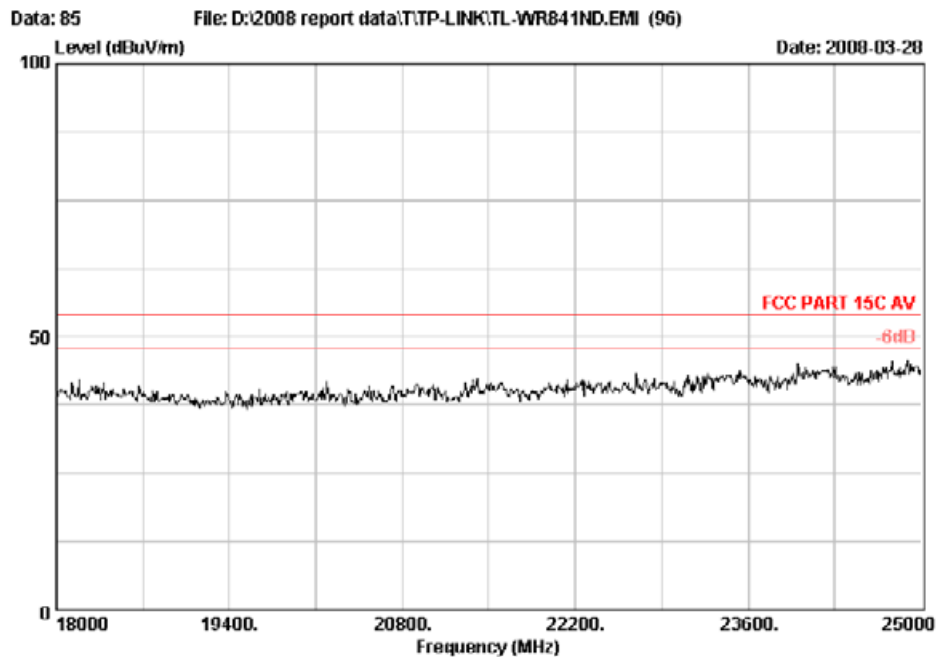
Site no. : 3m Chamber Data no. : 92
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx
Memo :



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



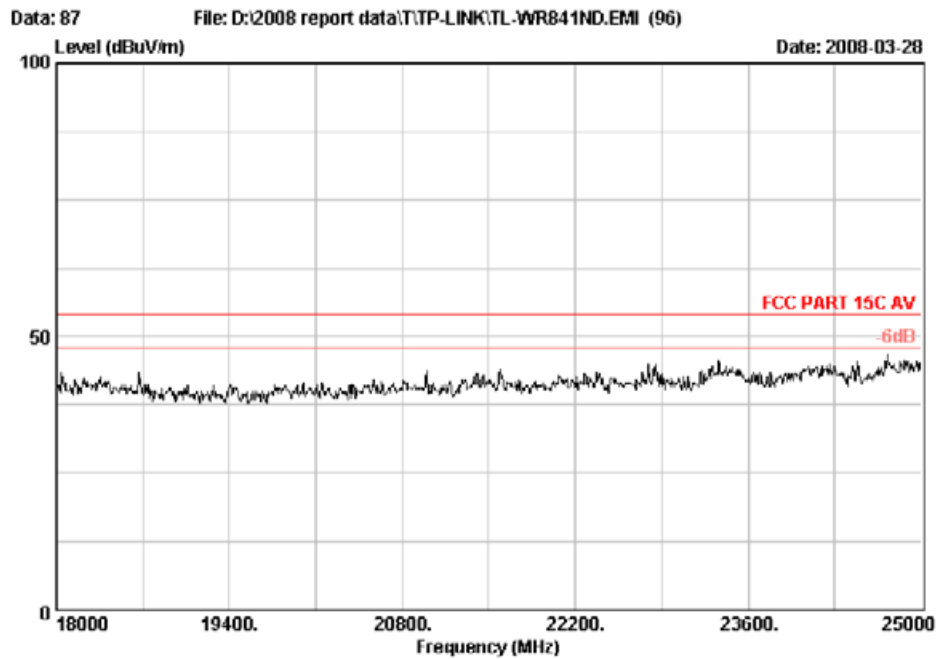
Site no. : 3m Chamber Data no. : 86
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx
Memo :



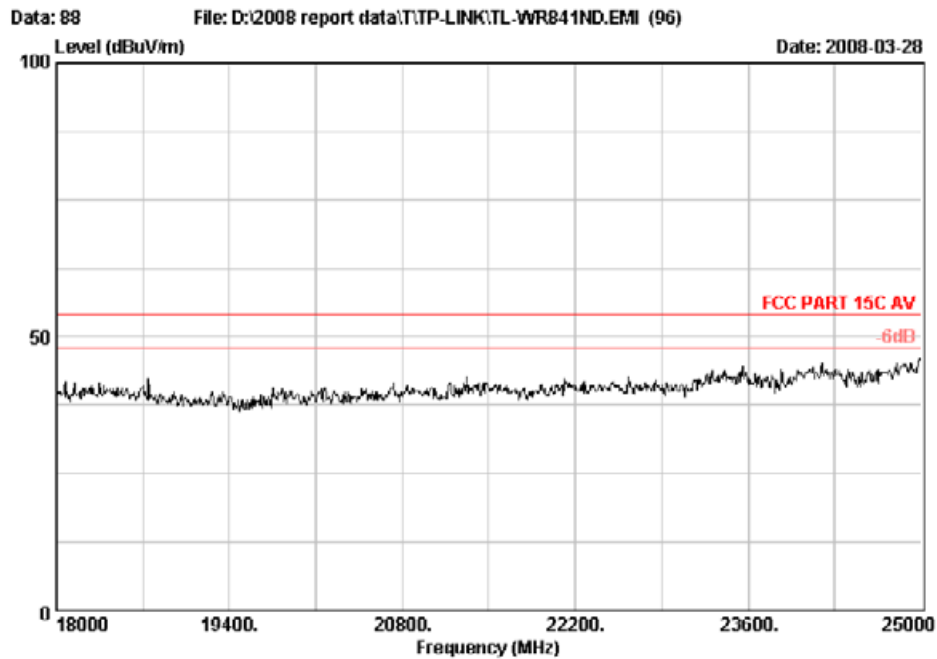
Site no. : 3m Chamber Data no. : 85
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx
Memo :



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



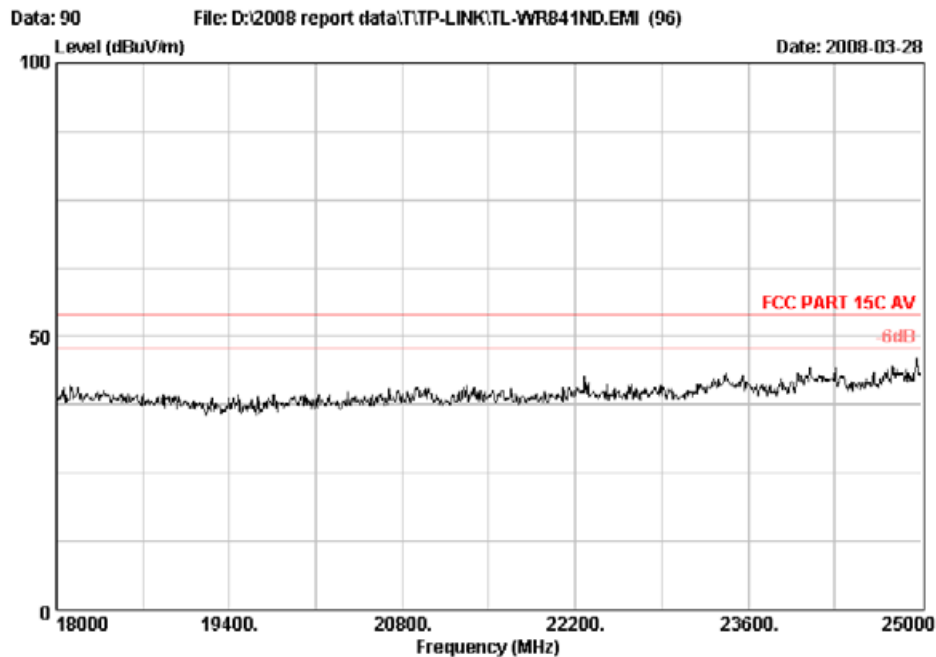
Site no. : 3m Chamber Data no. : 87
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route H/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx
Memo :



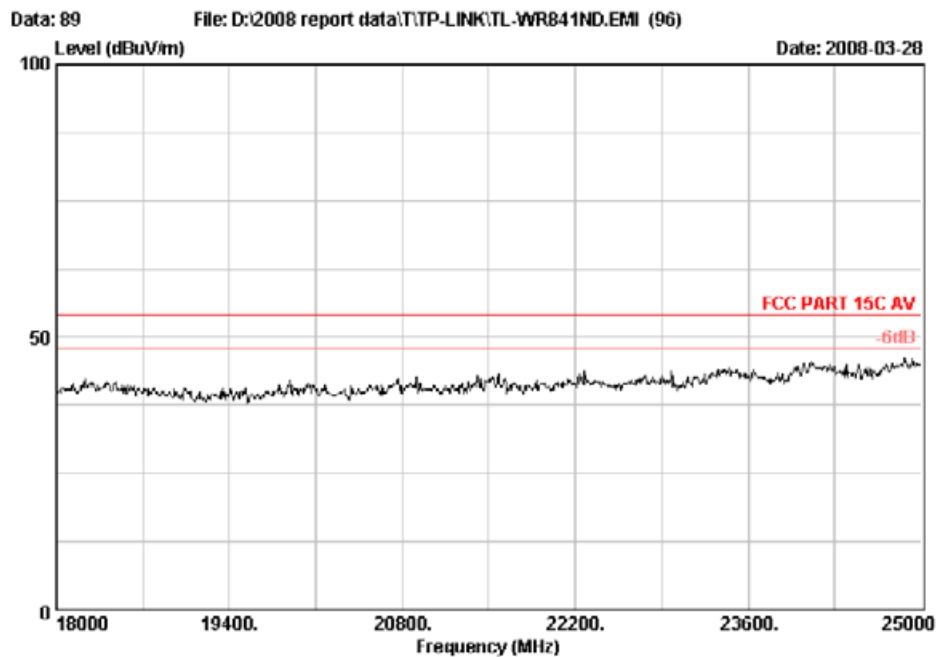
Site no. : 3m Chamber Data no. : 88
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route H/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH6:2437MHz Tx
Memo :



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



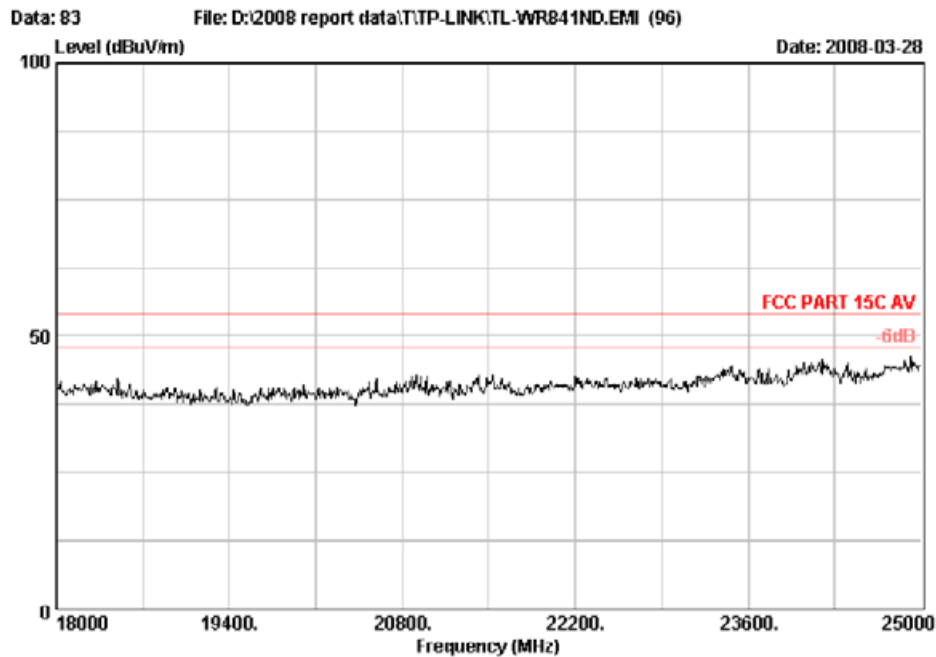
Site no. : 3m Chamber Data no. : 90
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx
Memo :



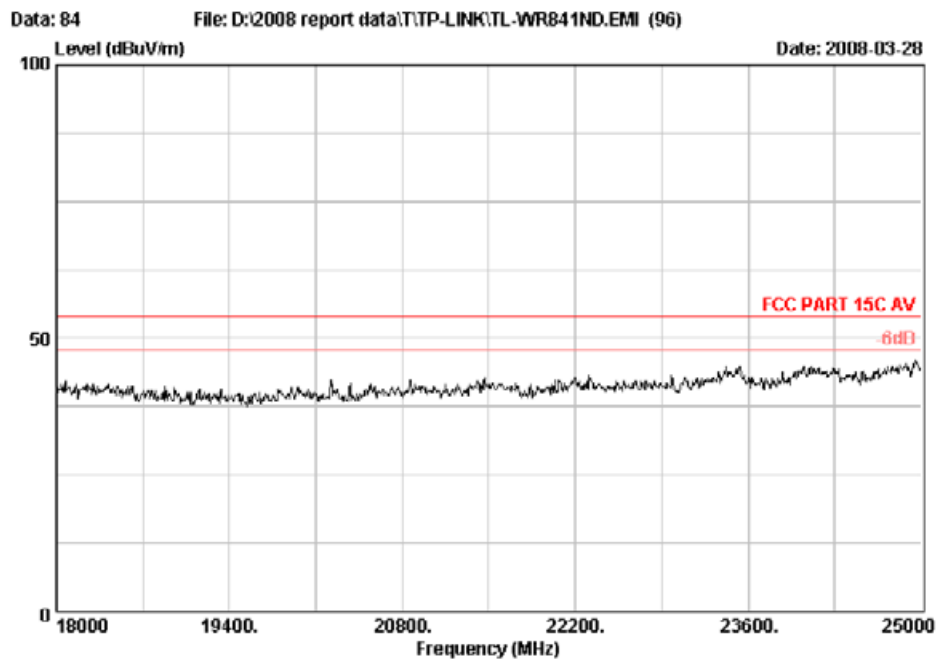
Site no. : 3m Chamber Data no. : 89
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx
Memo :



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Fax:+86-755-26632877
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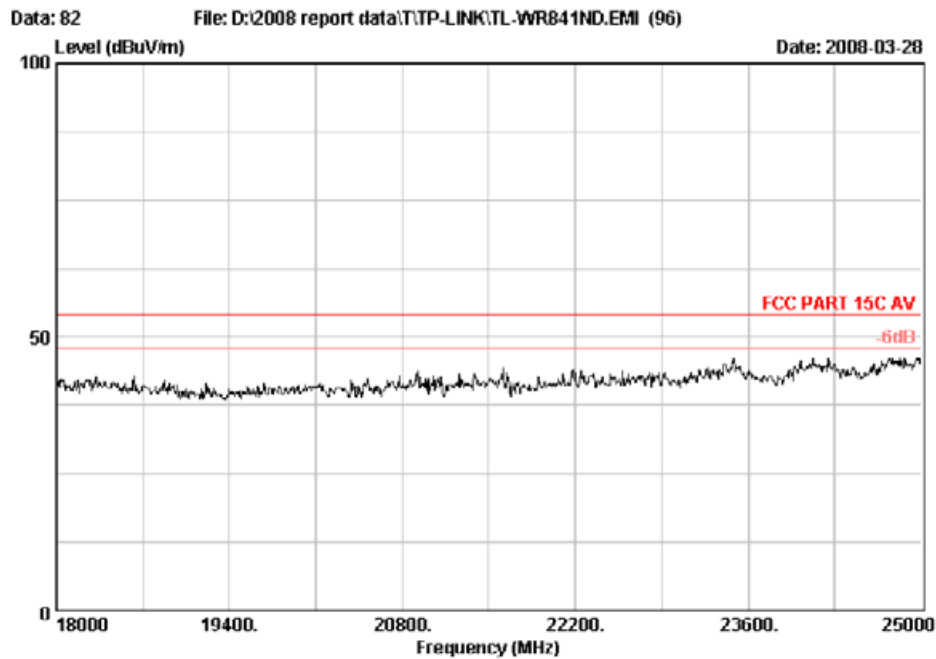
Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx
Memo : HT20



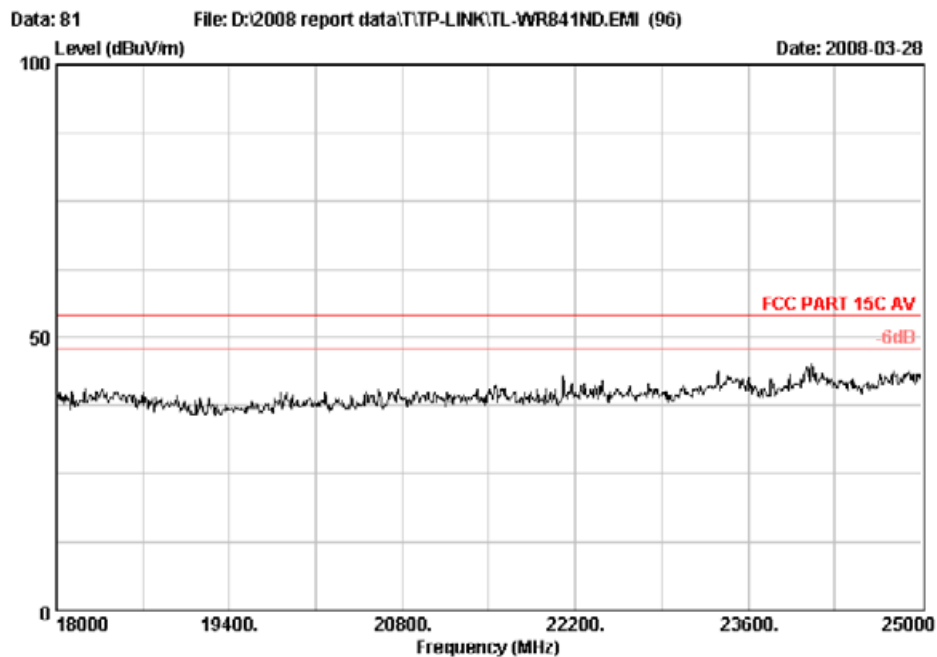
Site no. : 3m Chamber Data no. : 84
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx
Memo : HT20



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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



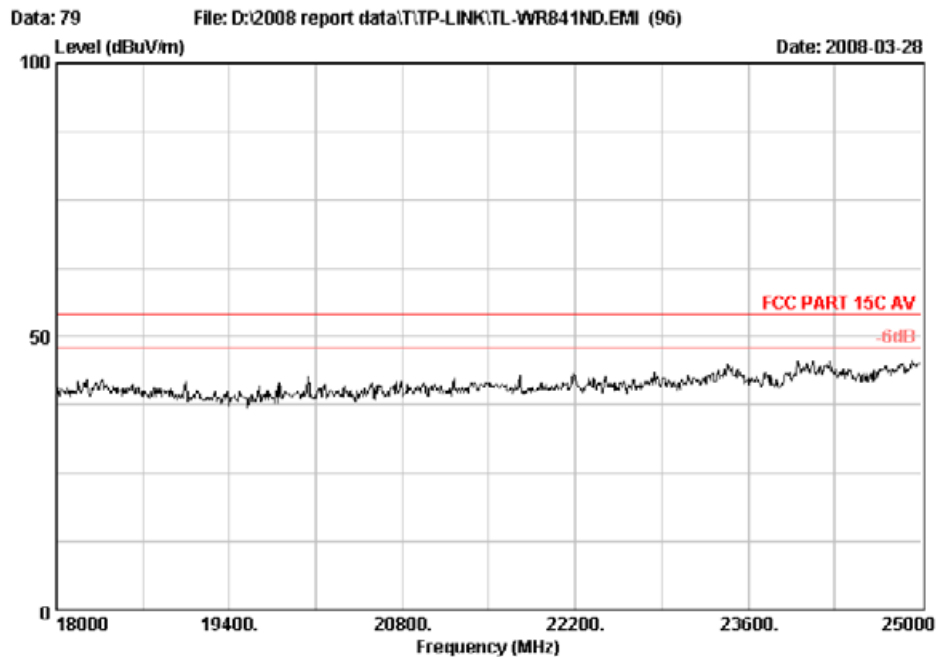
Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH6:2437MHz Tx
Memo : HT20



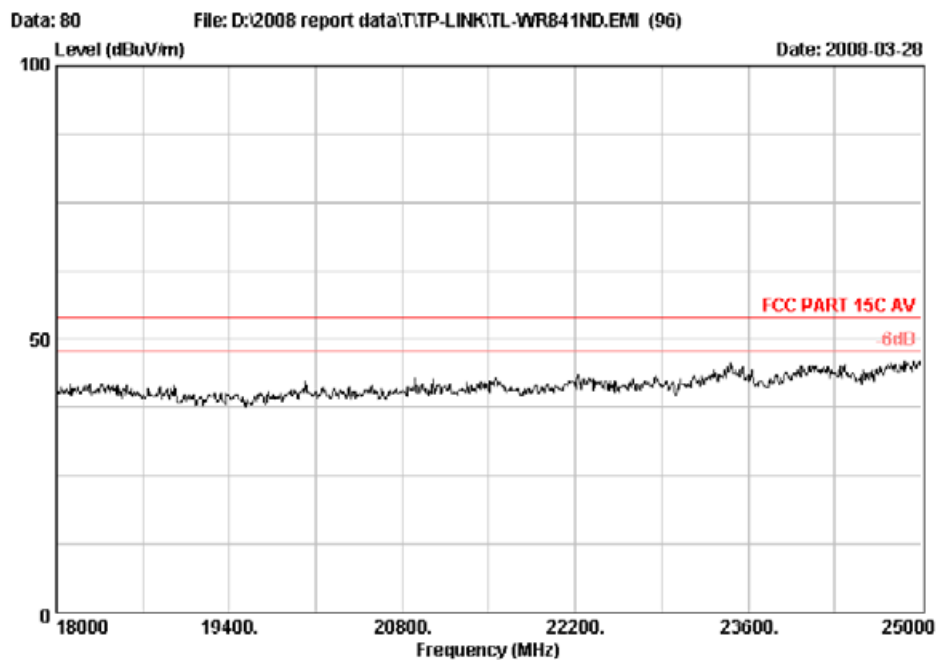
Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH6:2437MHz Tx
Memo : HT20



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Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH11:2462MHz Tx
Memo : HT20

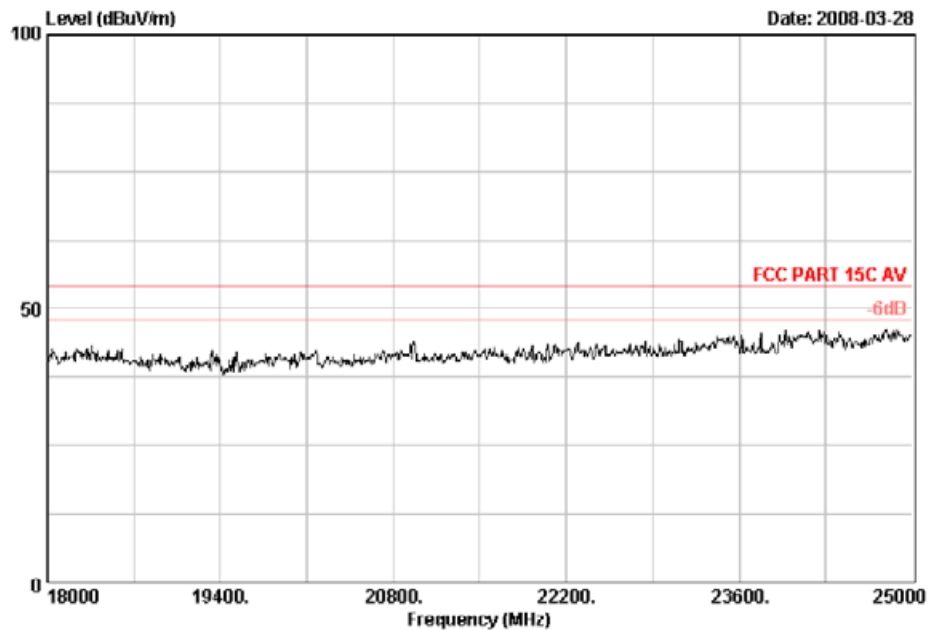


Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH11:2462MHz Tx
Memo : HT20



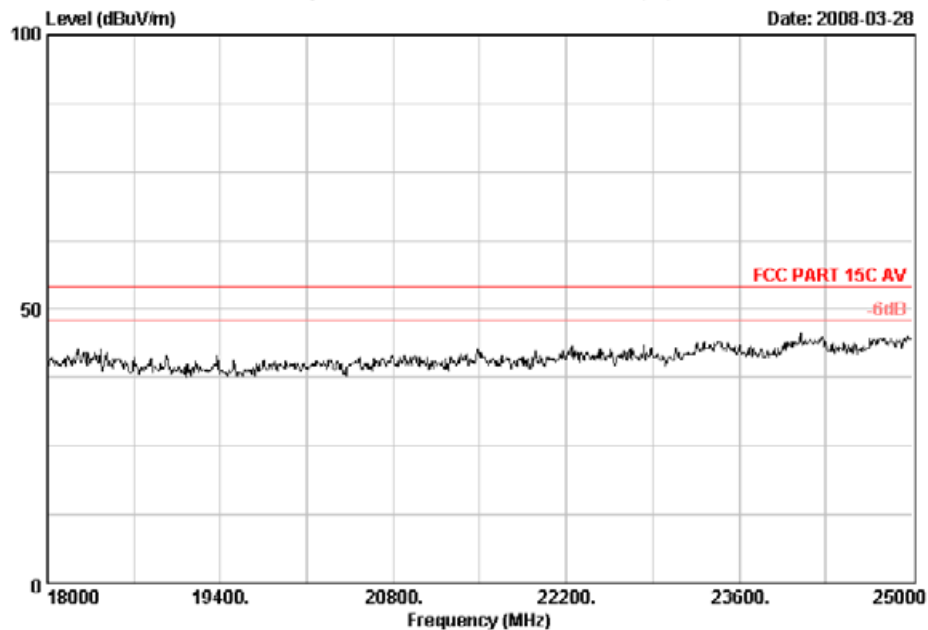
No.6 Ke Feng Road,B1:ck S2,
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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 74 File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (96)



Site no. : 3m Chamber Data no. : 74
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2422MHz Tx
Memo : HT40

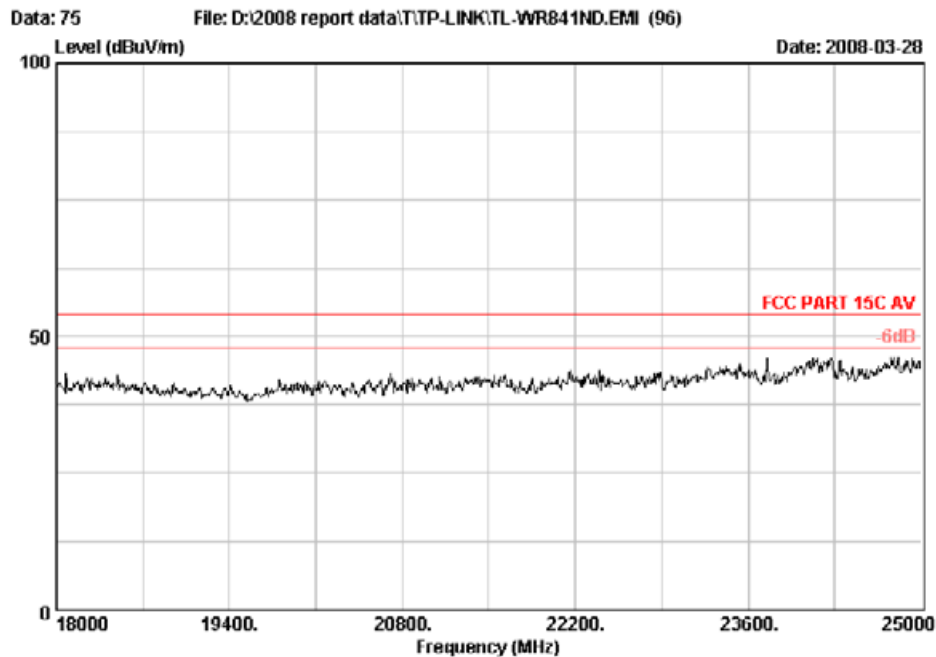
Data: 73 File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (96)



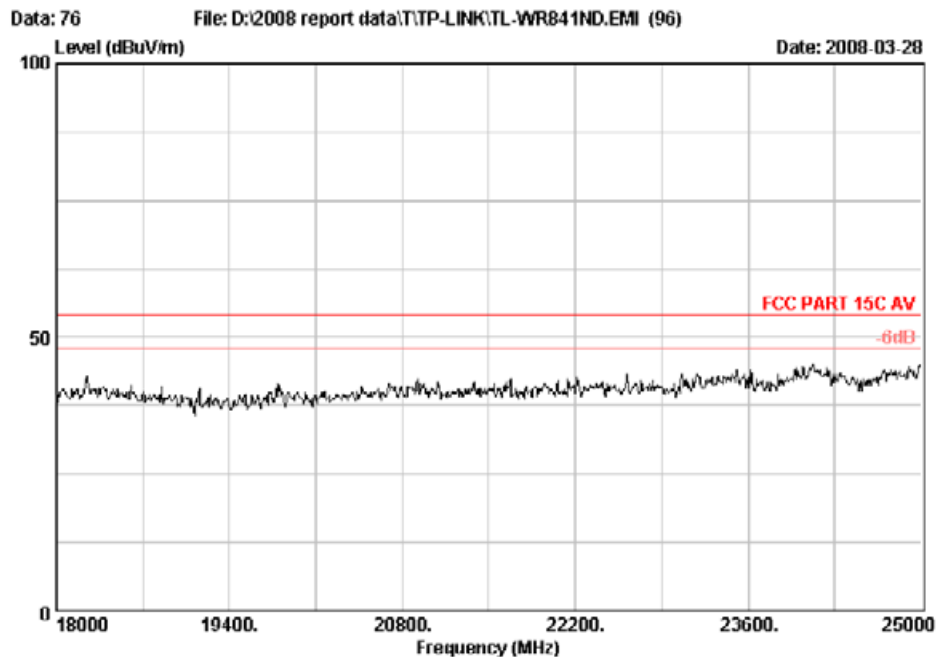
Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2422MHz Tx
Memo : HT40



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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



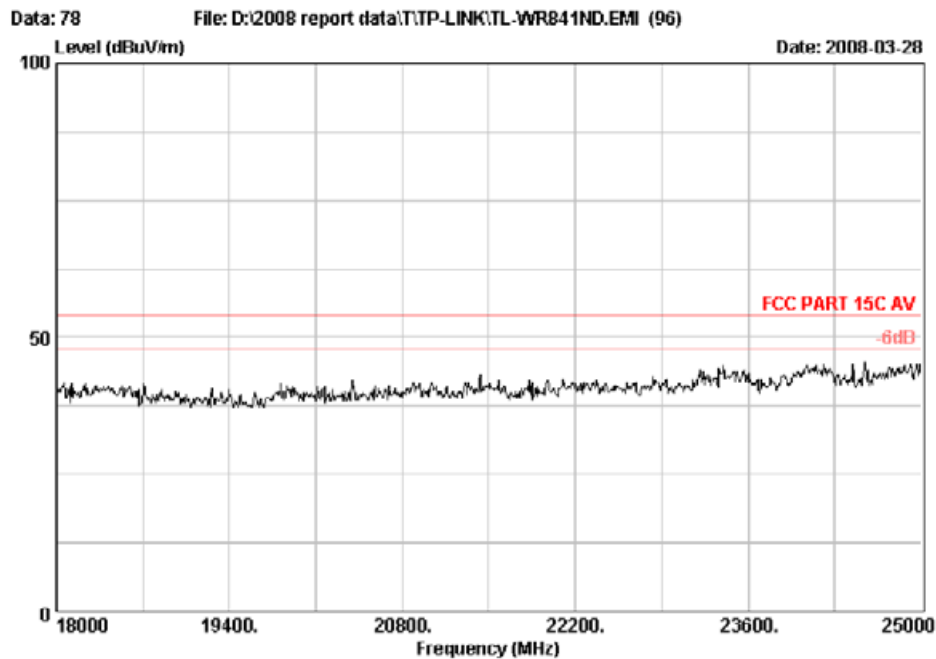
Site no. : 3m Chamber Data no. : 75
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH4:2437MHz Tx
Memo : HT40



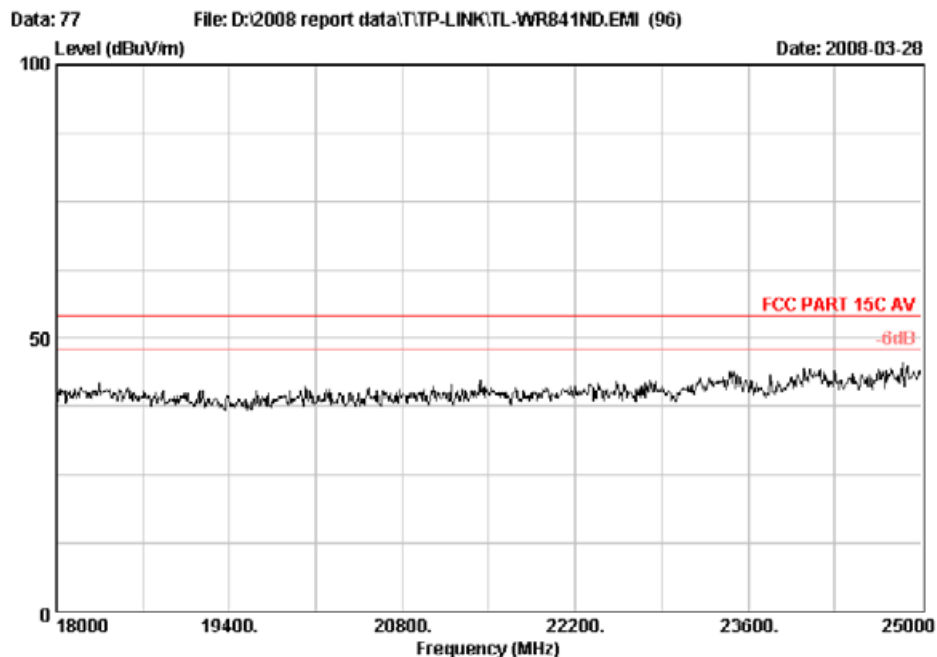
Site no. : 3m Chamber Data no. : 76
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH4:2437MHz Tx
Memo : HT40



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Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

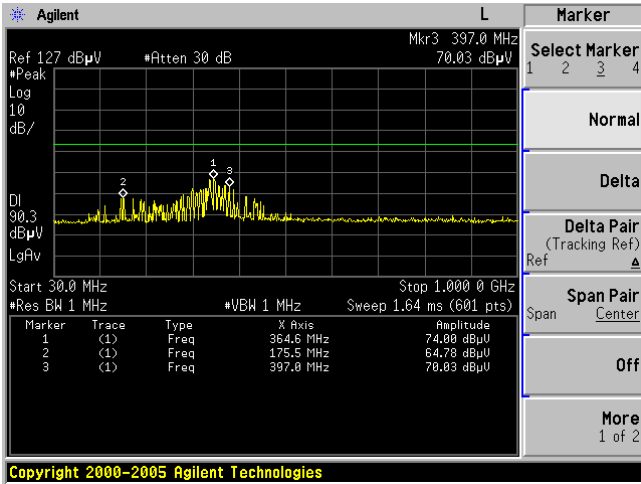
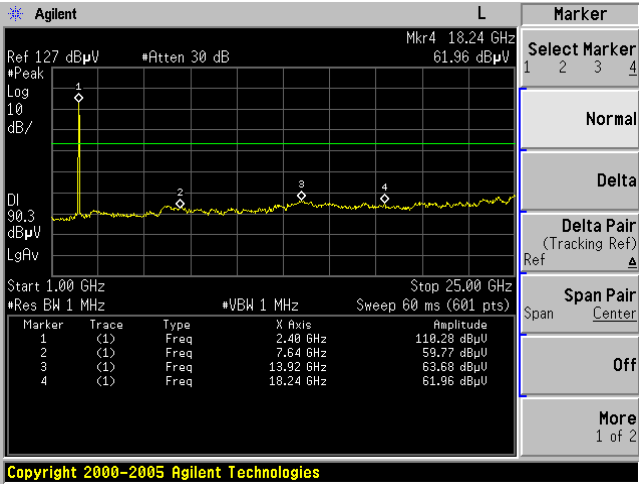


Site no. : 3m Chamber Data no. : 78
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx
Memo : HT40

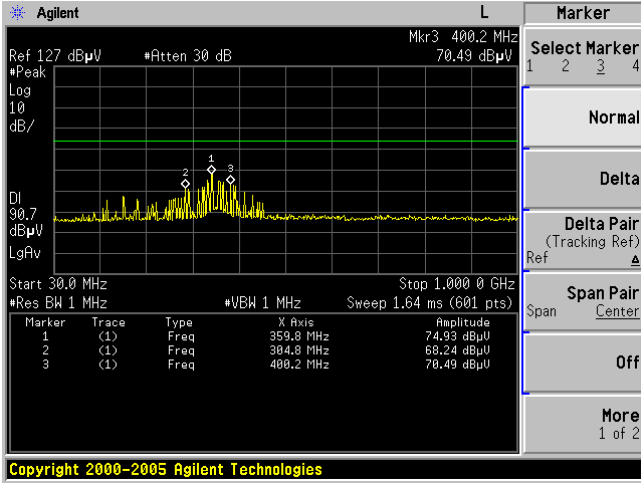
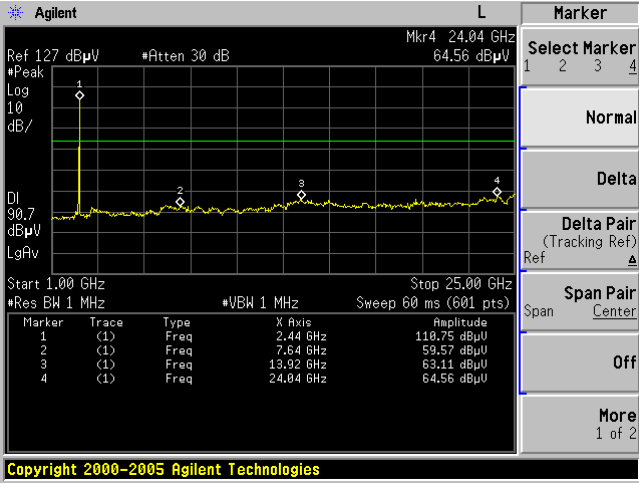


Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx
Memo : HT40

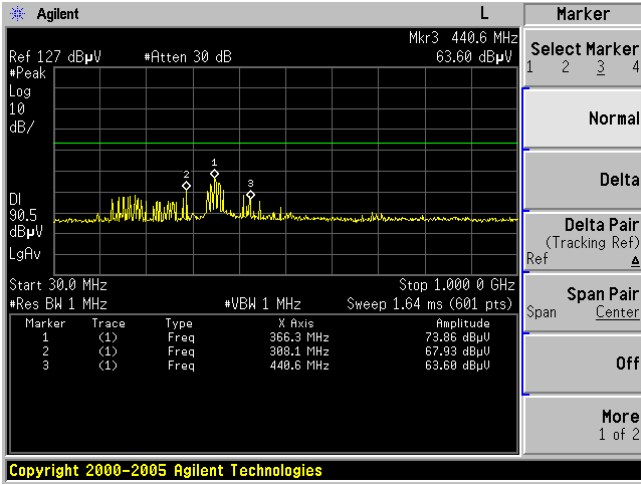
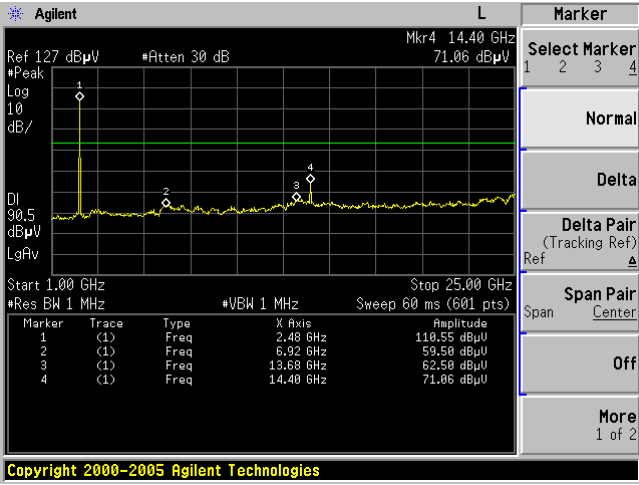
Conducted emission test data:
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



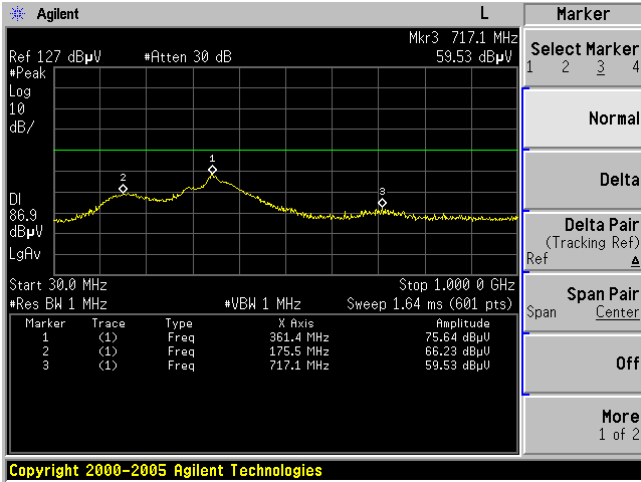
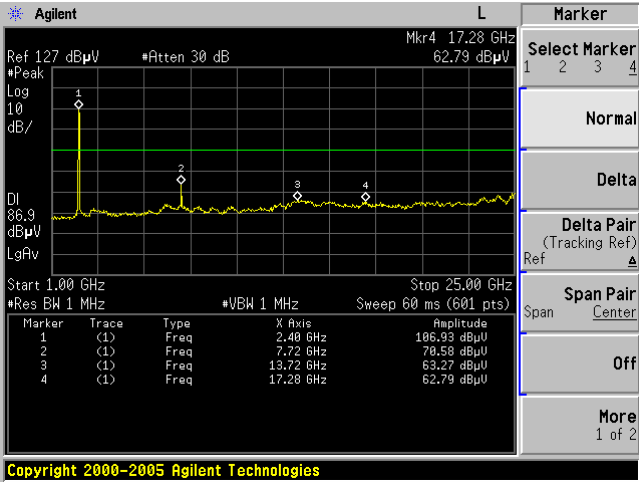
Test CH6: 2437MHz



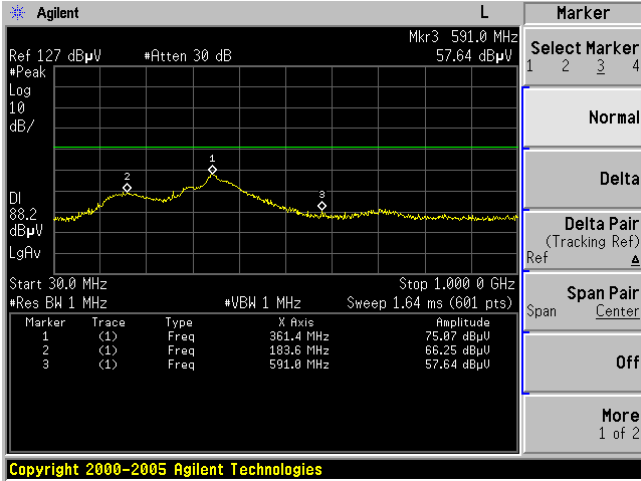
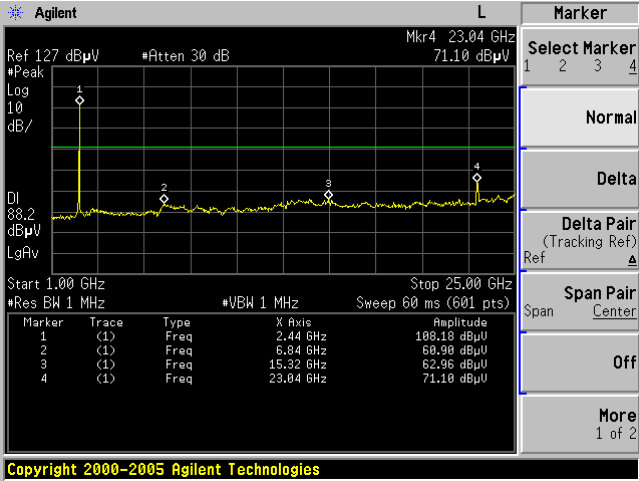
Test CH11: 2462MHz



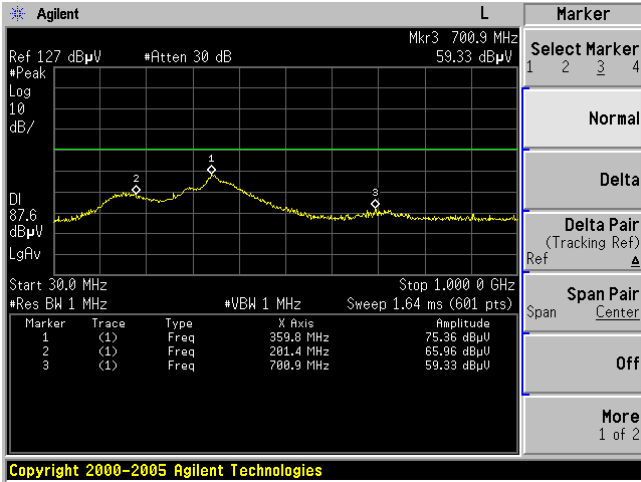
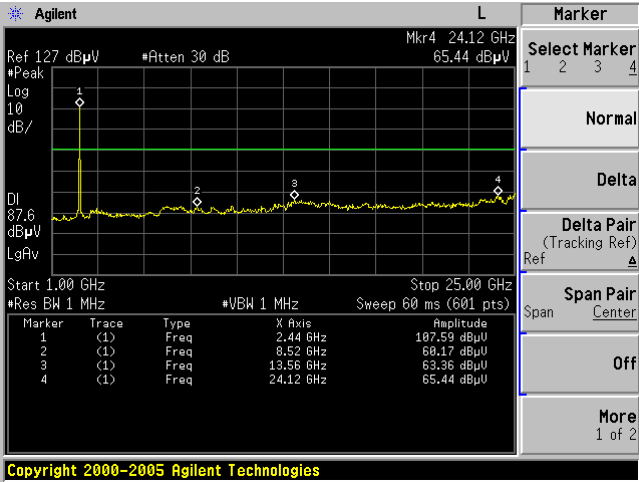
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



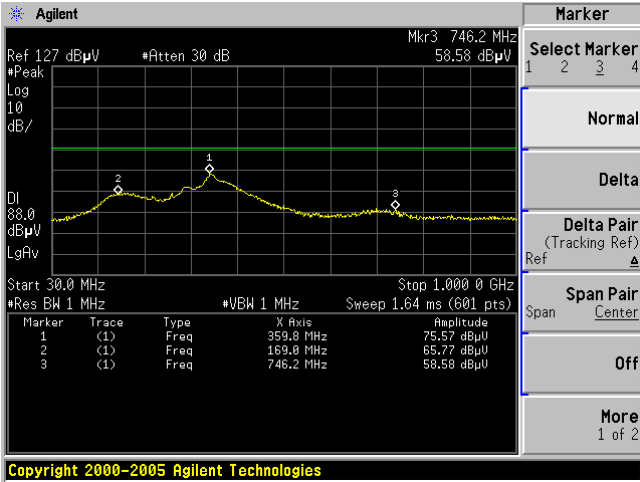
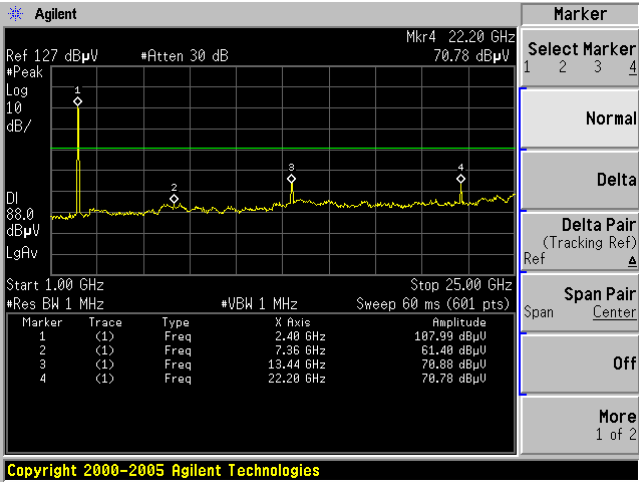
Test CH6: 2437MHz



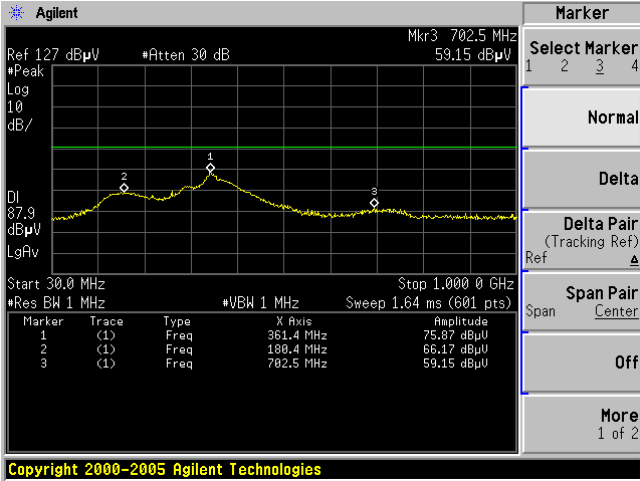
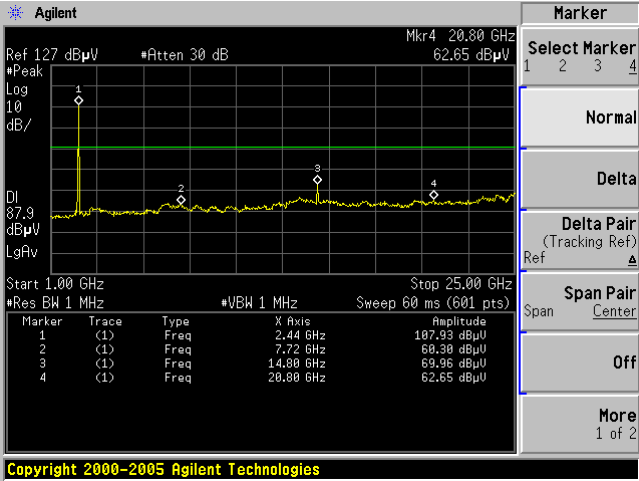
Test CH11: 2462MHz



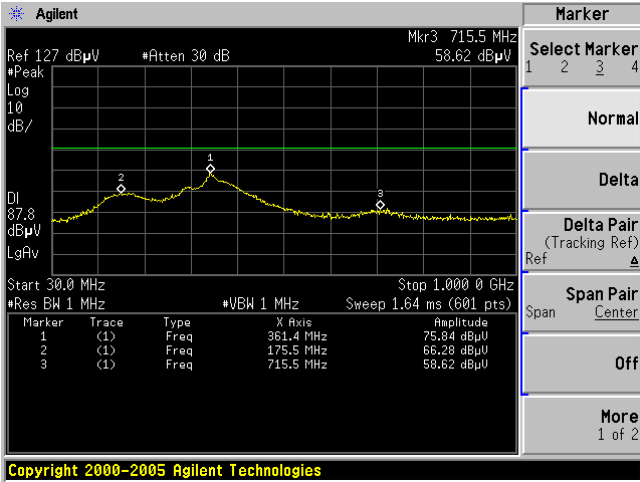
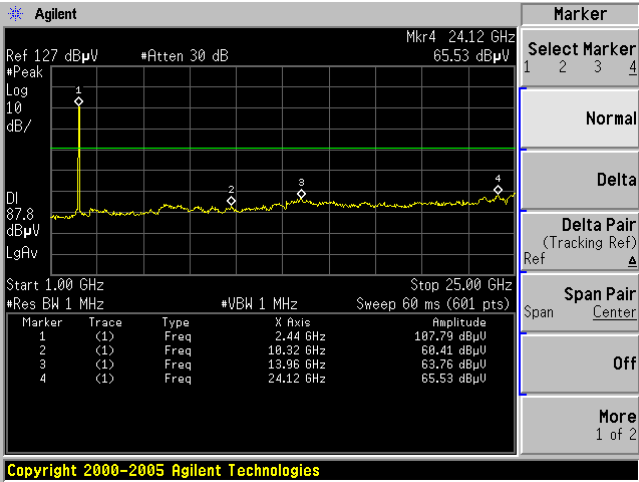
Test Mode: IEEE 802. 11n TX (HT20)
Test CH1: 2412MHz



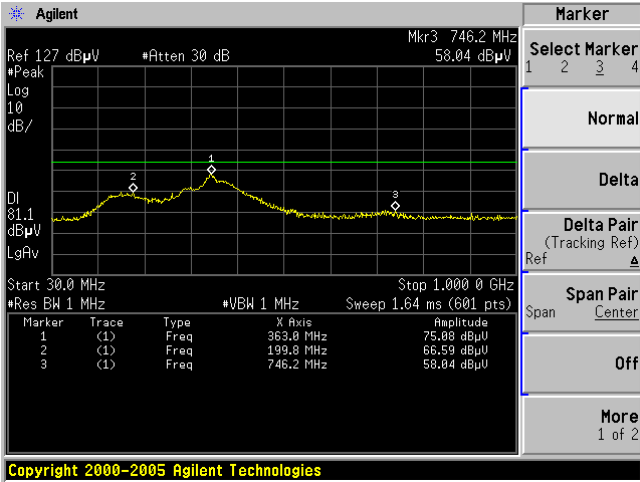
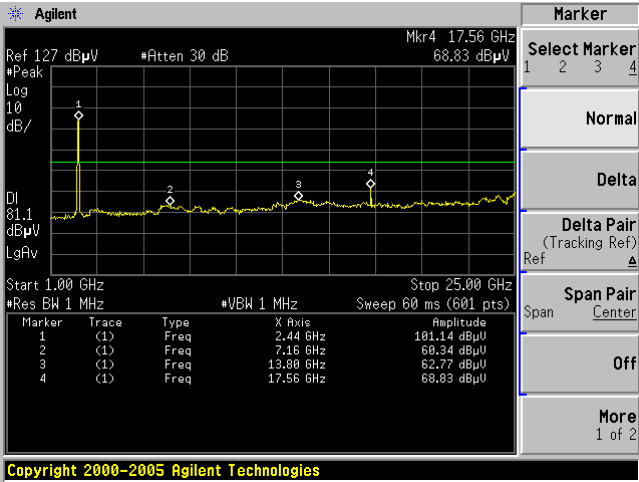
Test CH6: 2437MHz



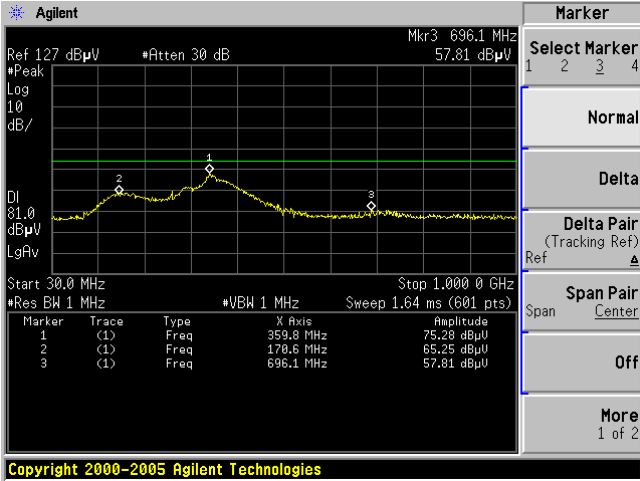
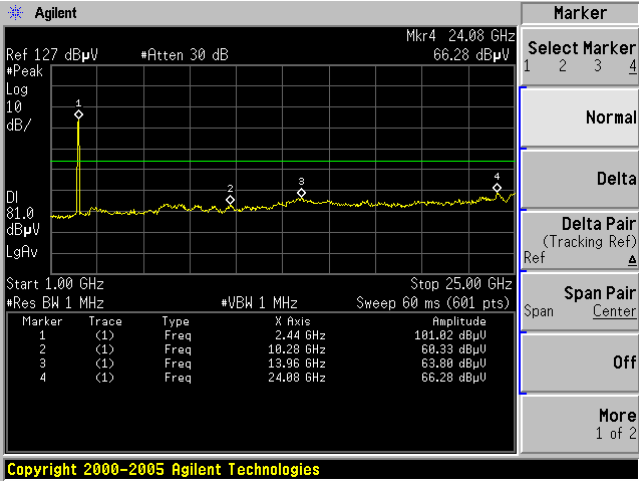
Test CH11: 2462MHz



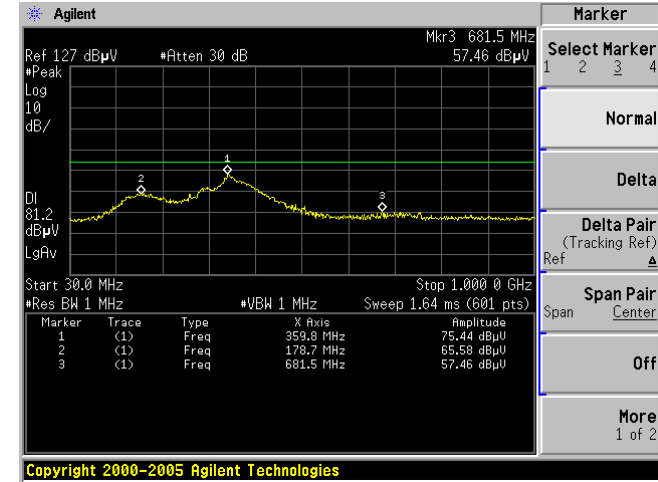
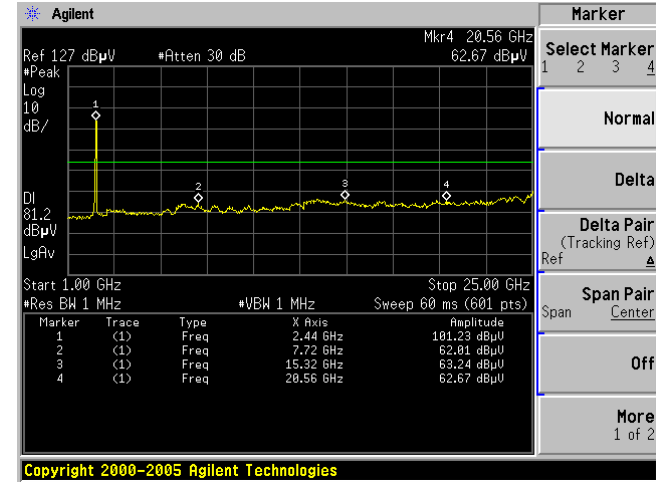
Test Mode: IEEE 802. 11n TX (HT40)
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



5. 6dB Bandwidth Test

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,11, 07	1 Year
2	RF Cable	MIYAZAKI	8D-FB	NO 3	May,11,07	1 Year

5.2.Test Information

EUT:	Wireless N Router
M/N:	TL-WR841ND
Test Date:	Mar.26, 2008
Ambient Temperature:	23℃
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX / IEEE 802.11g TX / IEEE 802.11n TX (HT20) / IEEE 802.11n TX (HT40)
Test Frequency:	11b,11g,11n HT20: CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz 11n HT40: CH1: 2422MHz CH4: 2437MHz CH7: 2452MHz
Tested By:	Jamy

5.3.Test Procedure

The transmitter output was connected to a spectrum analyzer . The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 100 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.4. Test Results

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.00	>500	PASS
6	13.07	>500	PASS
11	13.07	>500	PASS

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.53	>500	PASS
6	16.53	>500	PASS
11	16.53	>500	PASS

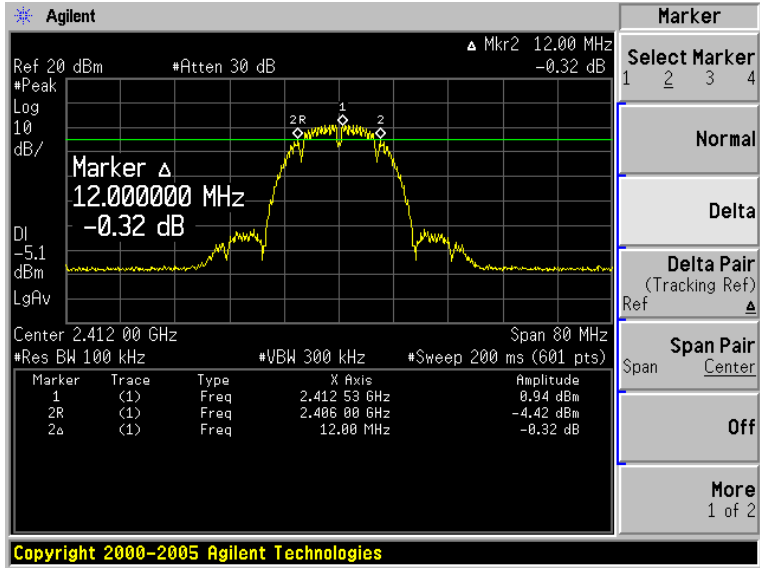
Test Mode: IEEE 802.11n TX (HT20)

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.87	>500	PASS
6	17.87	>500	PASS
11	17.87	>500	PASS

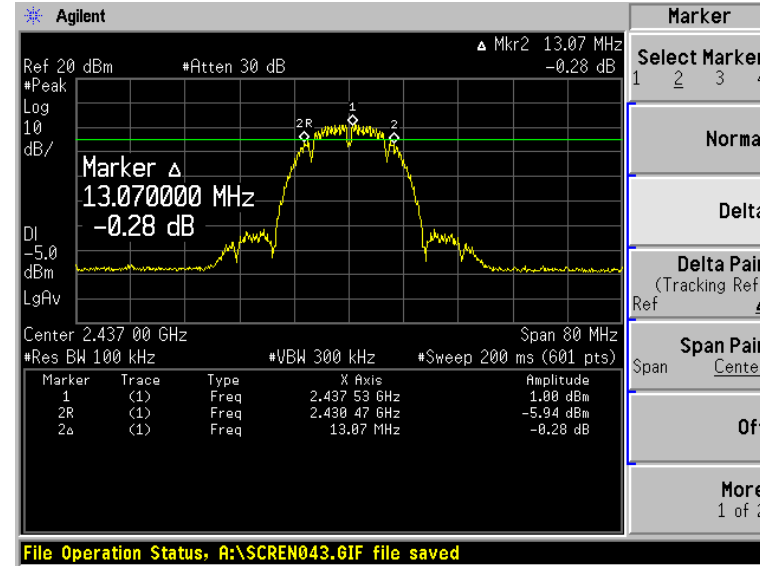
Test Mode: IEEE 802.11n TX (HT40)

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	36.53	>500	PASS
4	36.53	>500	PASS
7	36.53	>500	PASS

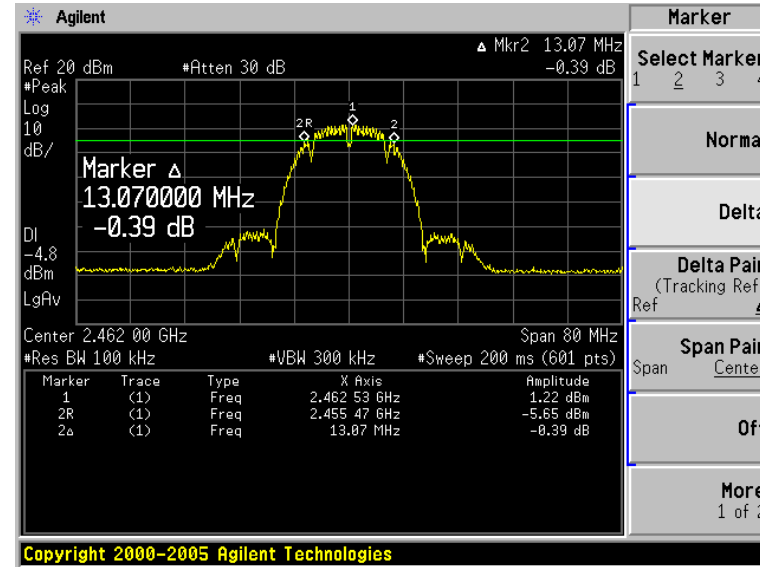
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



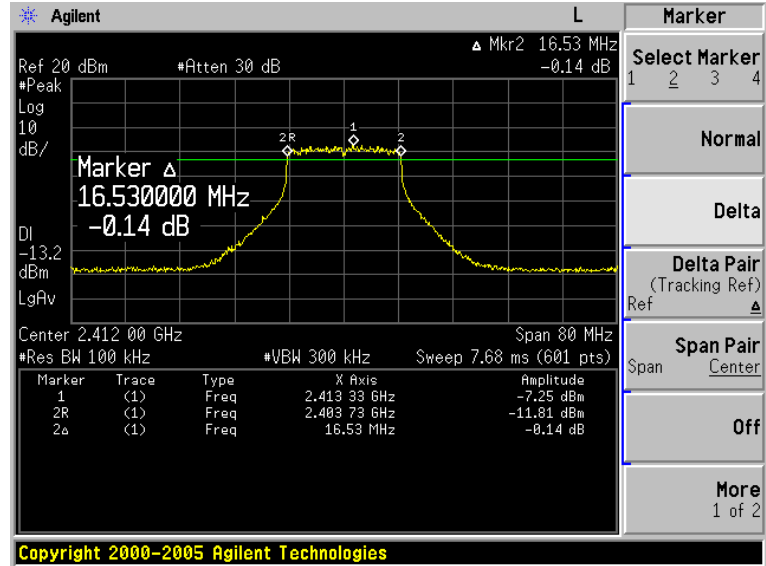
Test CH6: 2437MHz



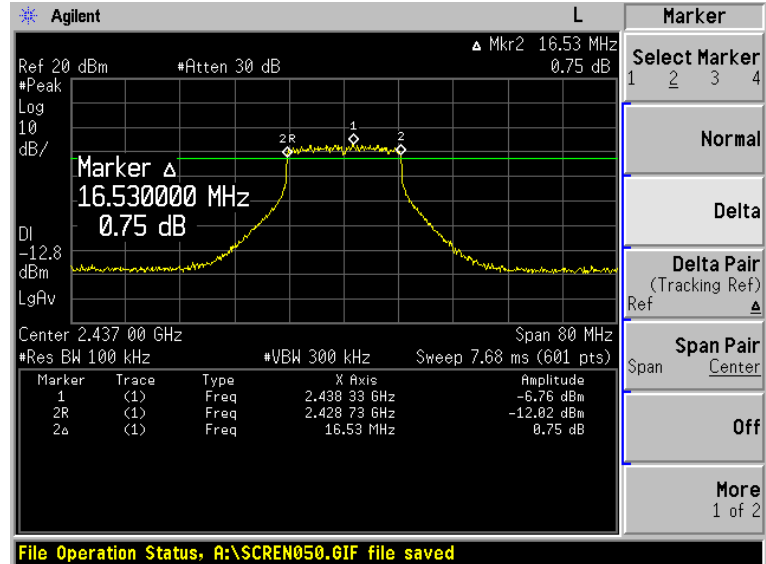
Test CH11: 2462MHz



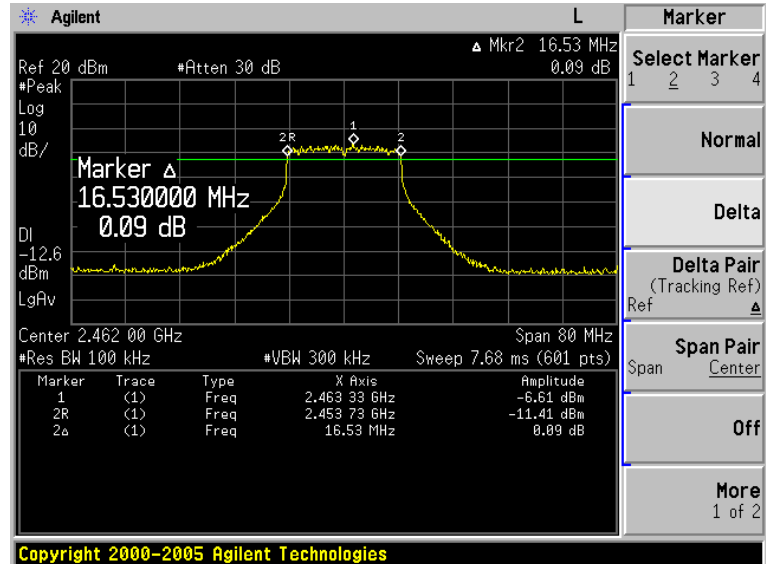
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



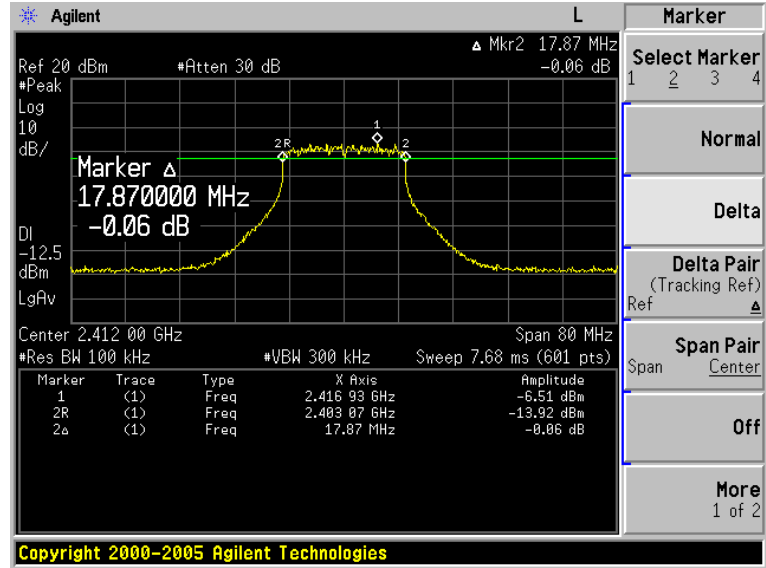
Test CH6: 2437MHz



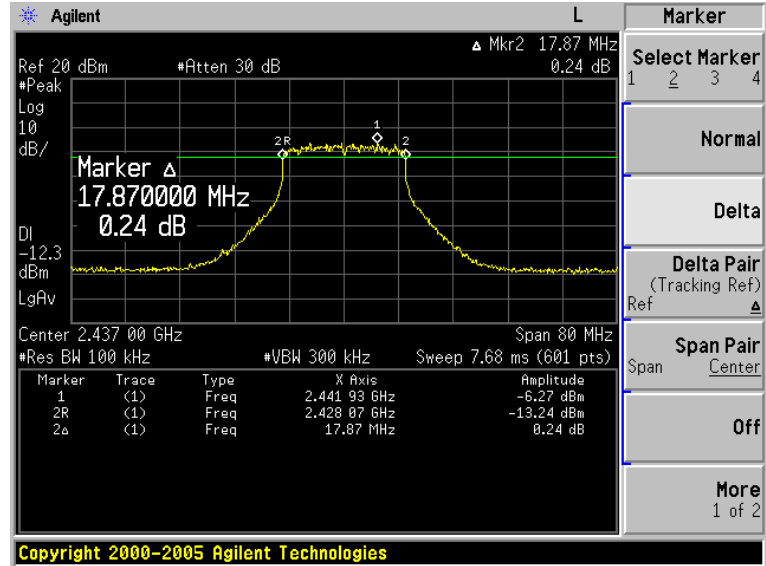
Test CH11: 2462MHz



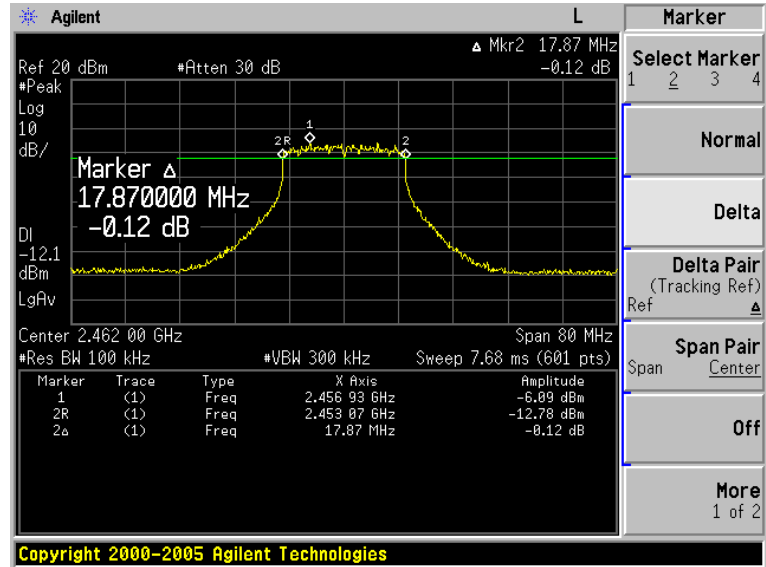
Test Mode: IEEE 802.11n TX (HT20)
Test CH1: 2412MHz



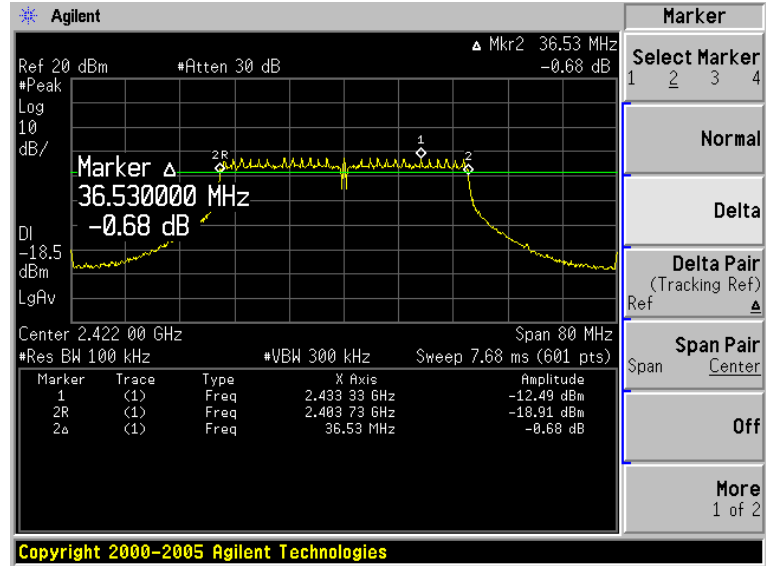
Test CH6: 2437MHz



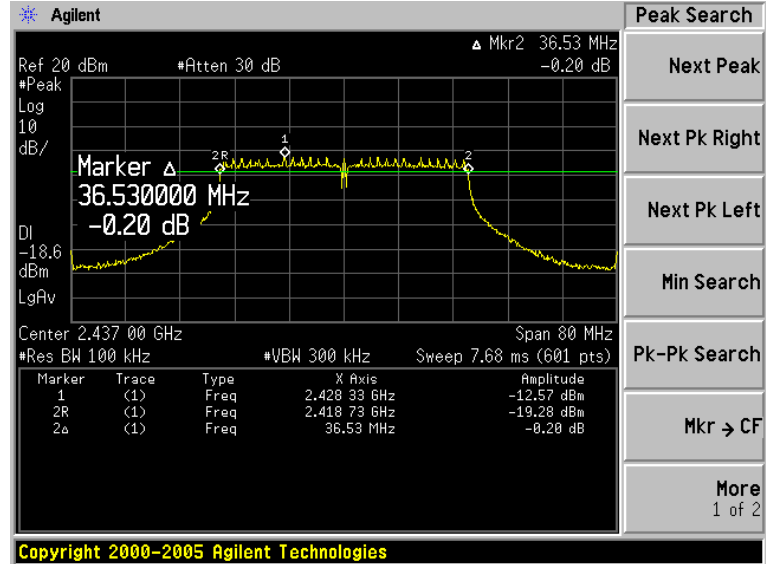
Test CH11: 2462MHz



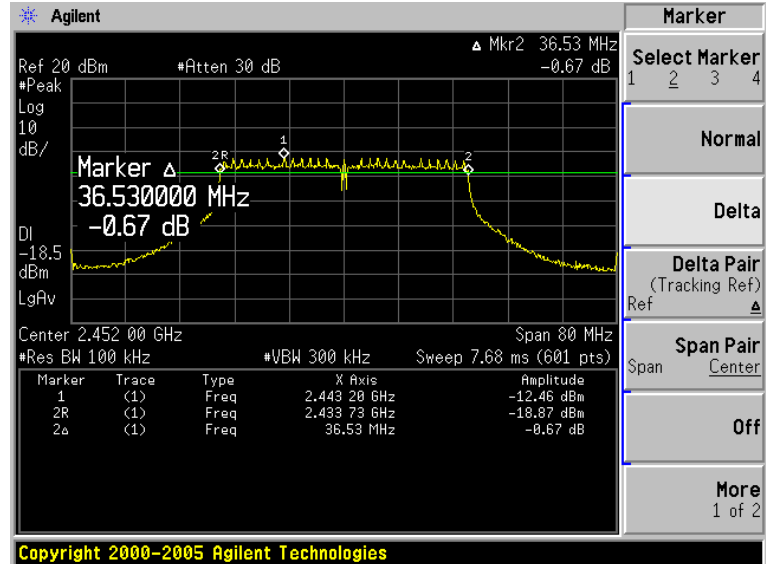
Test Mode: IEEE 802.11n TX (HT40)
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



6. OUTPUT POWER TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,11, 07	1 Year
2	RF Cable	MIYAZAKI	8D-FB	NO 3	May,11,07	1 Year
3	Power meter	Anritsu	ML2487	6K00002472	May,11,07	1 Year
4	Attenuator	Agilent	8491B	MY39262165	May.11, 07	1 Year

6.2. Test Information

EUT:	Wireless N Router
M/N:	TL-WR841ND
Ambient Temperature:	23℃
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX / IEEE 802.11g TX / IEEE 802.11n TX (HT20) / IEEE 802.11n TX (HT40)
Test Frequency:	11b,11g,11n HT20: CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz 11n HT40: CH1: 2422MHz CH4: 2437MHz CH7: 2452MHz
Tested By:	Jamy

6.3. Test Procedure

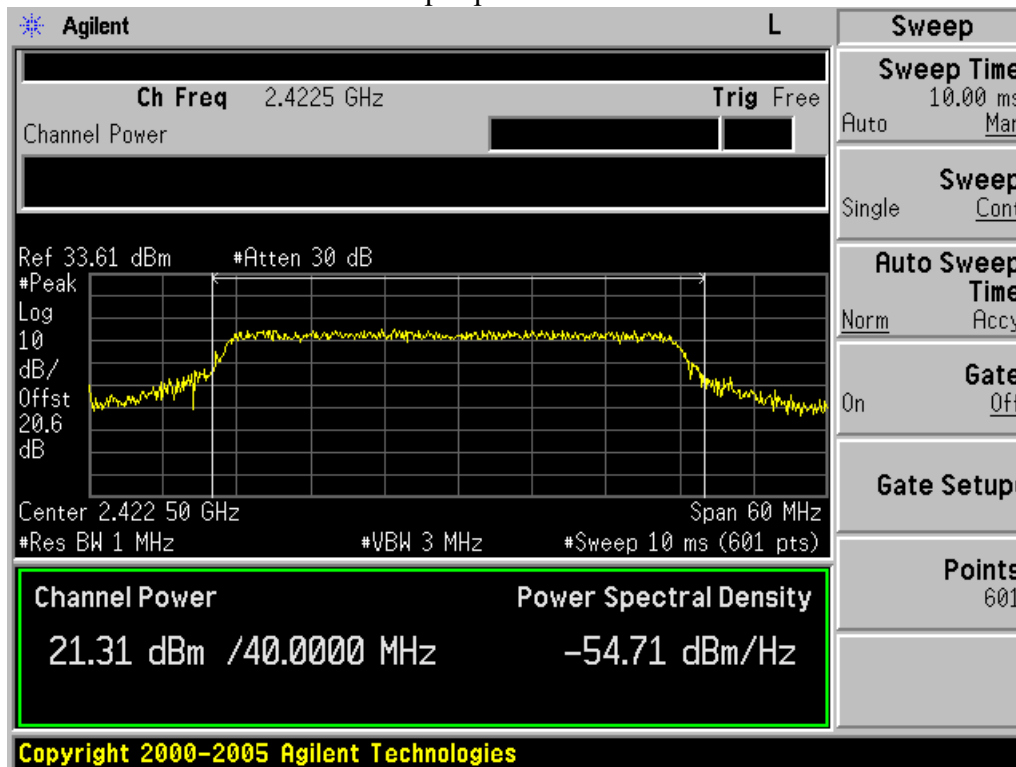
1, For IEEE 802.11b/g and IEEE802.11n HT20 mode, the transmitter output was connected to a power meter, use the power meter to read out the peak out put power.

2, For IEEE802.11n HT40 mode the transmitter output was connected to a Spectrum Analyzer through a 20dB Attenuator, and use the channel power measure function of Spectrum Analyzer to read out the peak output power.

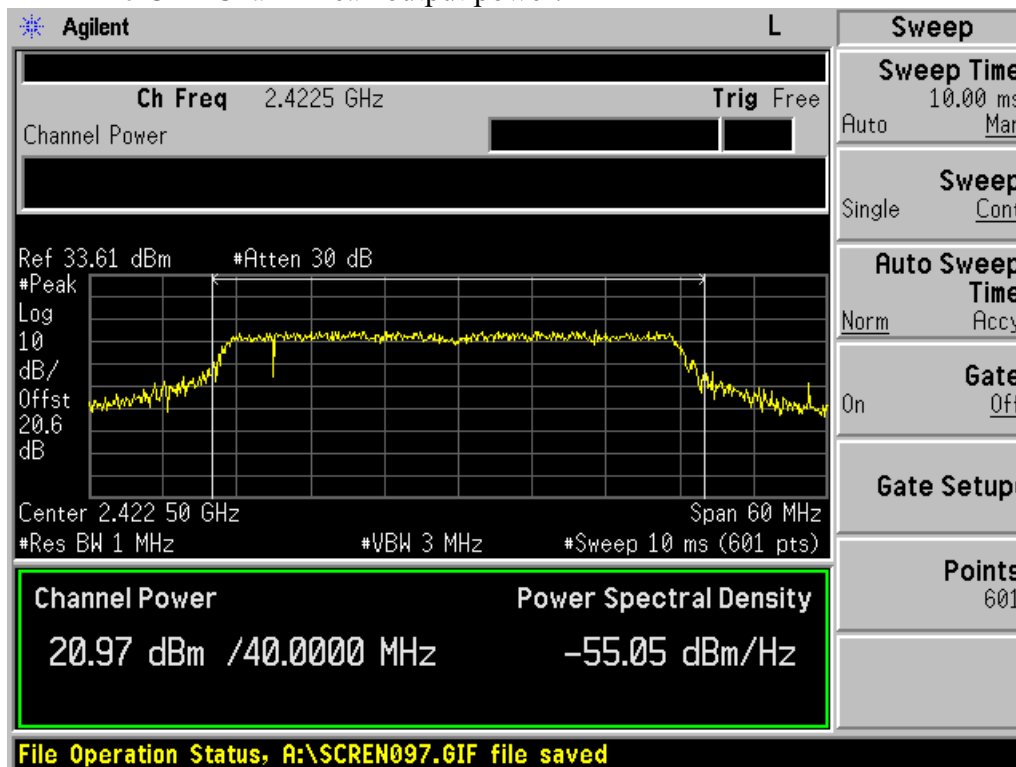
6.4. Test Results

Maximum Peak Conducted Output Power					
EUT: Wireless N Router M/N:TL-WR841ND					
Power: DC 12V From adapter 120V/60Hz					
Data Rate:11b 1Mbps ; 11g : 6Mbps ; 11n HT20 : 6.5Mbps ; 11n HT40 : 13.5Mbps(Note 1)					
Ambient Temperature:23℃		Relative Humidity: 60%			
Test date:2008/04/23		Test site: RF site		Tested By: Jamy	
Cable Loss: 0.6dB Antenna Gain:3dBi					
Test CH	11b,11g,11n HT20		CH1:2412MHz CH6:2437MHz CH11:2462MHz		
Test CH	11n HT40		CH1:2422MHz CH4:2437MHz CH7:2452MHz		
Mode	CH	Chain1	Chain2	Result	
		Peak Level(dBm)	Peak Level(dBm)	Total Power (dBm)	Limit (dBm)
11b	CH1	17.74	17.73	20.75	30.00
	CH6	17.81	17.72	20.78	30.00
	CH11	18.02	17.74	20.89	30.00
11g	CH1	19.57	19.64	22.62	30.00
	CH6	19.41	19.84	22.64	30.00
	CH11	19.43	19.69	22.57	30.00
11n HT20	CH1	19.67	19.84	22.77	30.00
	CH6	19.69	19.90	22.81	30.00
	CH11	19.67	20.07	22.88	30.00
11n HT40	CH1	21.31	20.97	24.15	30.00
	CH4	21.73	20.93	24.36	30.00
	CH7	21.78	20.85	24.35	30.00
Note1:According Exploratory test, These data rate have the maximum output power					
Total power=Chain1 Level +Chain2 Level(Linear)					

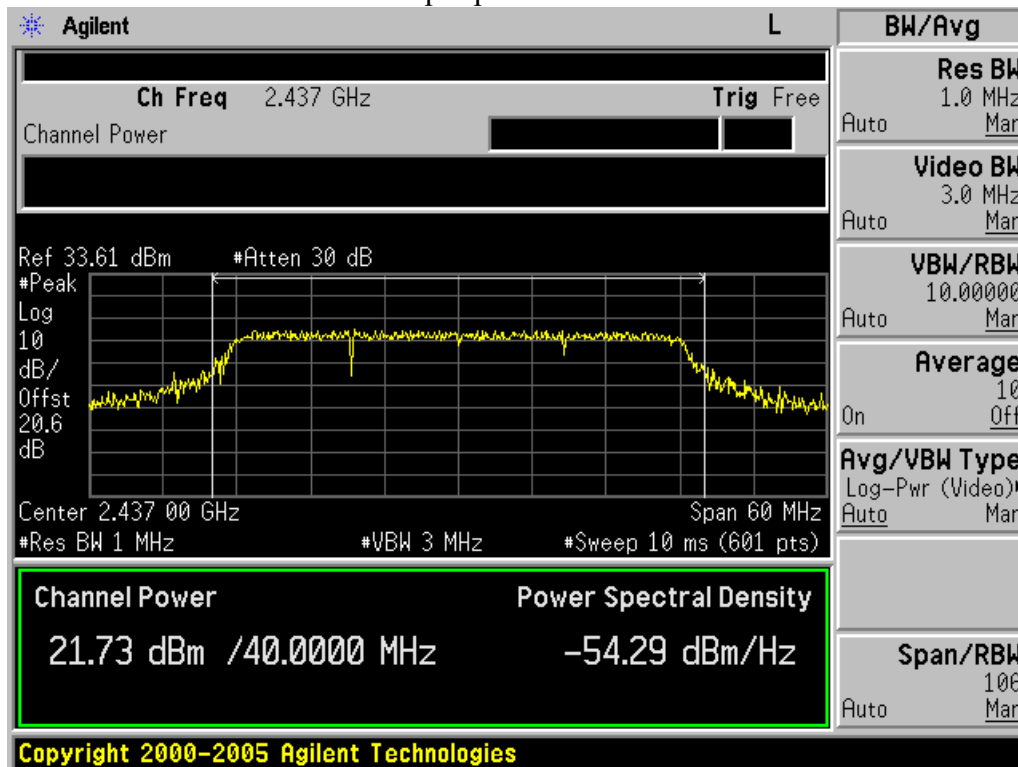
11n HT40 CH1 Chain1 Peak output power:



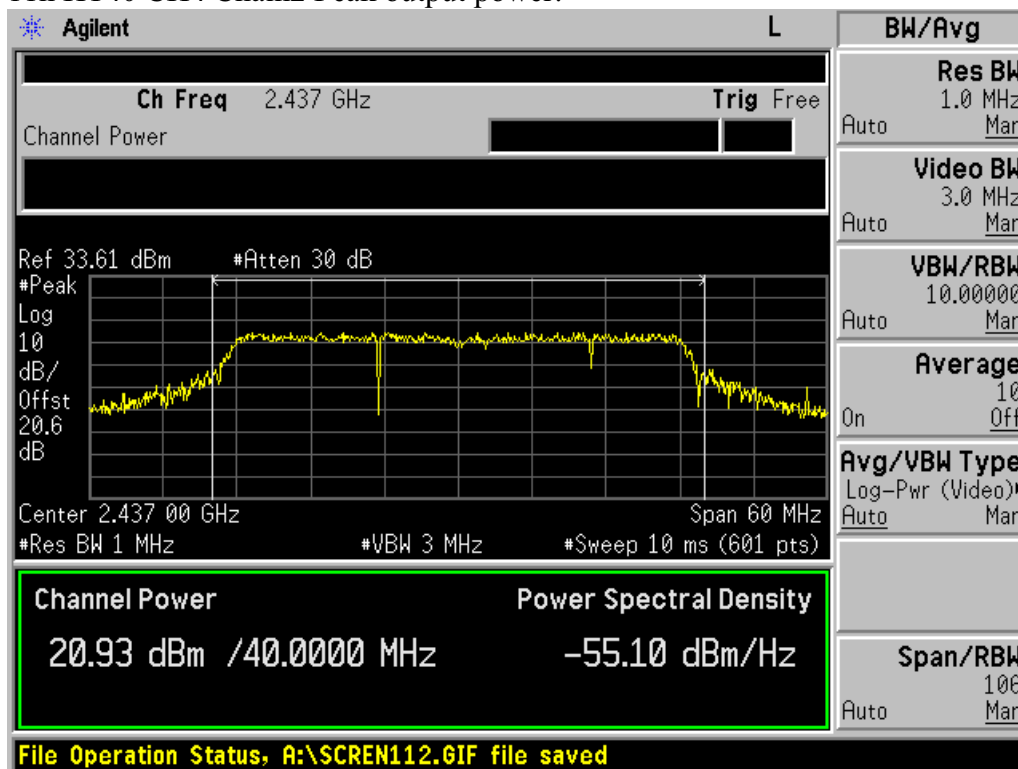
11n HT40 CH1 Chain2 Peak output power:



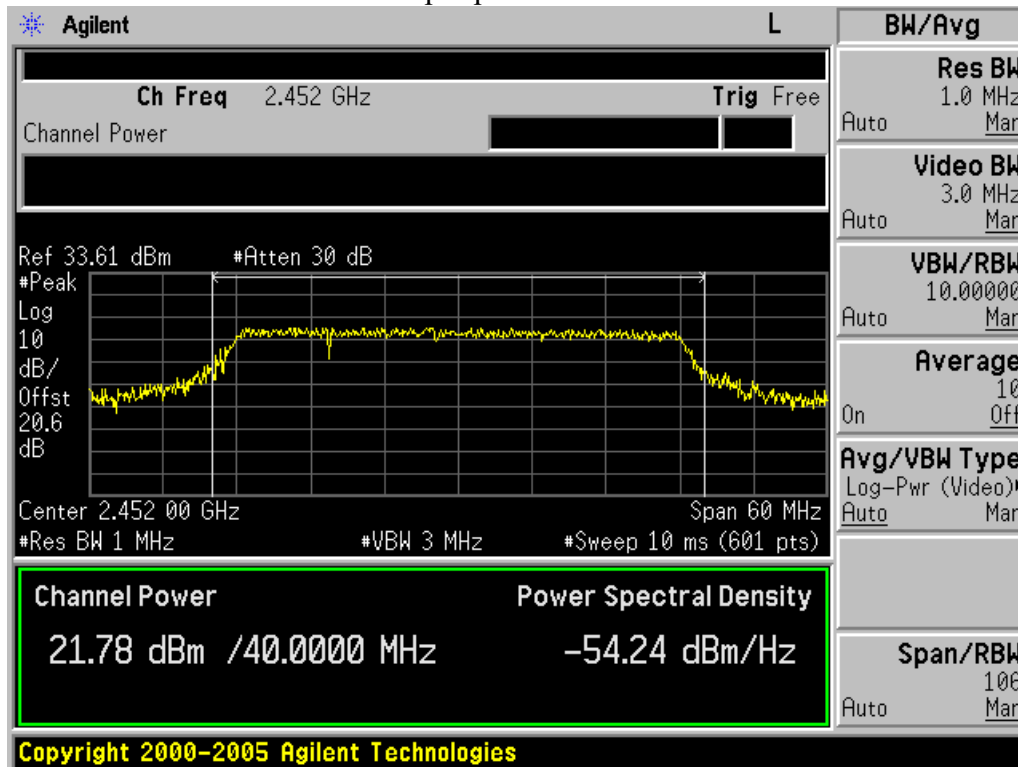
11n HT40 CH4 Chain1 Peak output power:



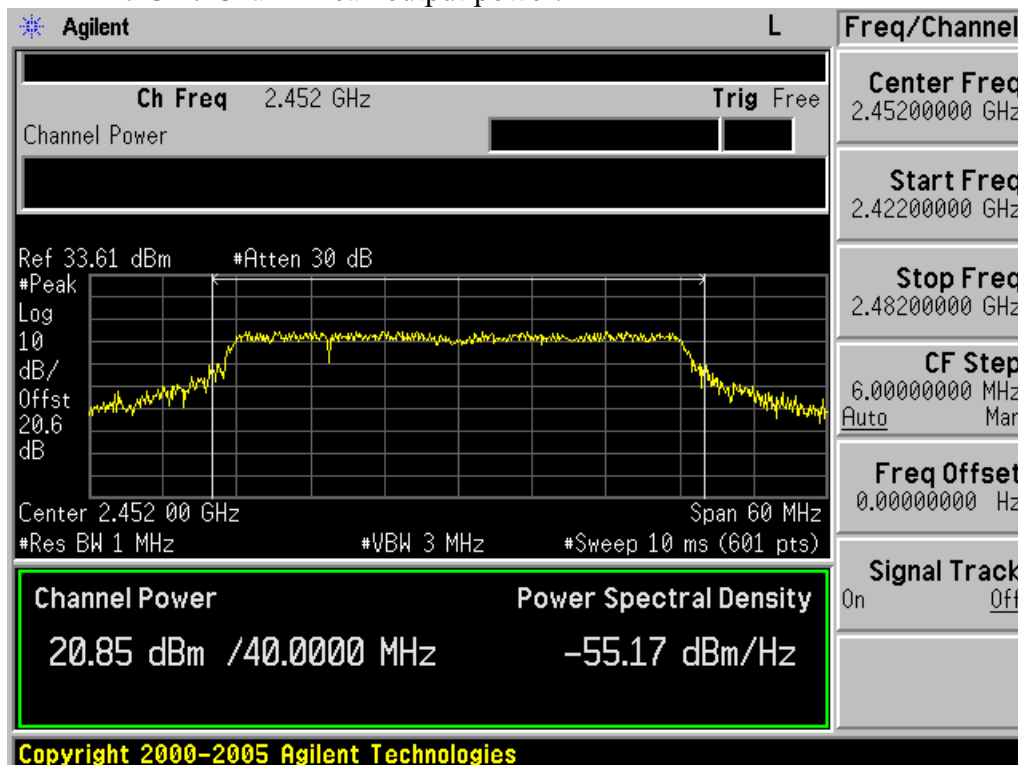
11n HT40 CH4 Chain2 Peak output power:



11n HT40 CH7 Chain1 Peak output power:



11n HT40 CH7 Chain2 Peak output power:



7. BAND EDGE COMPLIANCE TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May, 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

7.2. Limit

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

7.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7.4. Test Results

Pass (The testing data was attached in the next pages.)

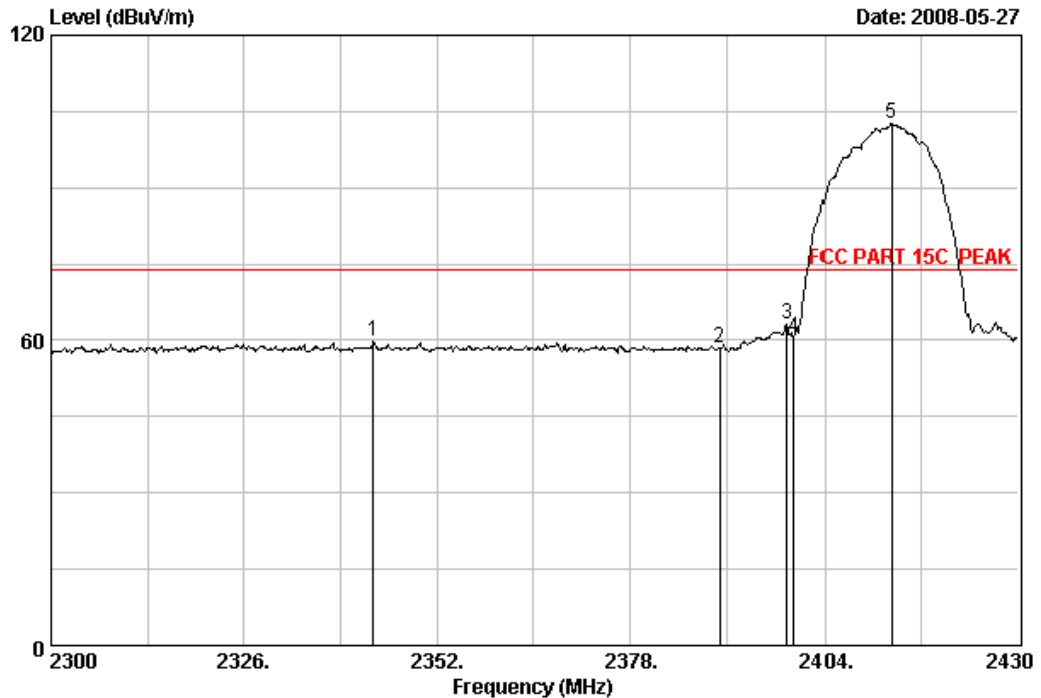


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 177

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 177
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2343.42	28.87	6.67	35.19	59.64	59.99	74.00	14.01	Peak
2	2390.00	28.99	6.71	35.18	57.98	58.50	74.00	15.50	Peak
3	2399.06	28.99	6.73	35.18	62.52	63.06	74.00	10.94	Peak
4	2400.00	28.99	6.73	35.18	60.01	60.55	74.00	13.45	Peak
5	2412.97	29.03	6.77	35.17	101.93	102.56	74.00	-28.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

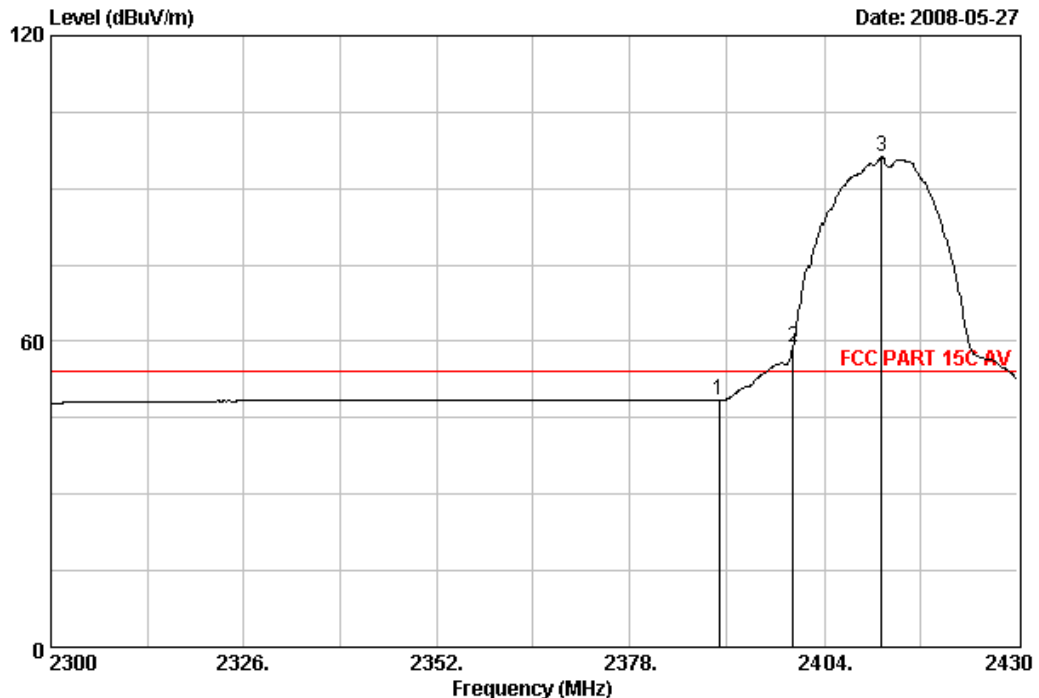


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 178

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 178
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C-AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2390.00	28.99	6.71	35.18	47.84	48.36	54.00	5.64	Average
2	2400.00	28.99	6.73	35.18	58.24	58.78	54.00	-4.78	Average
3	2411.67	29.03	6.73	35.18	95.61	96.19	54.00	-42.19	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

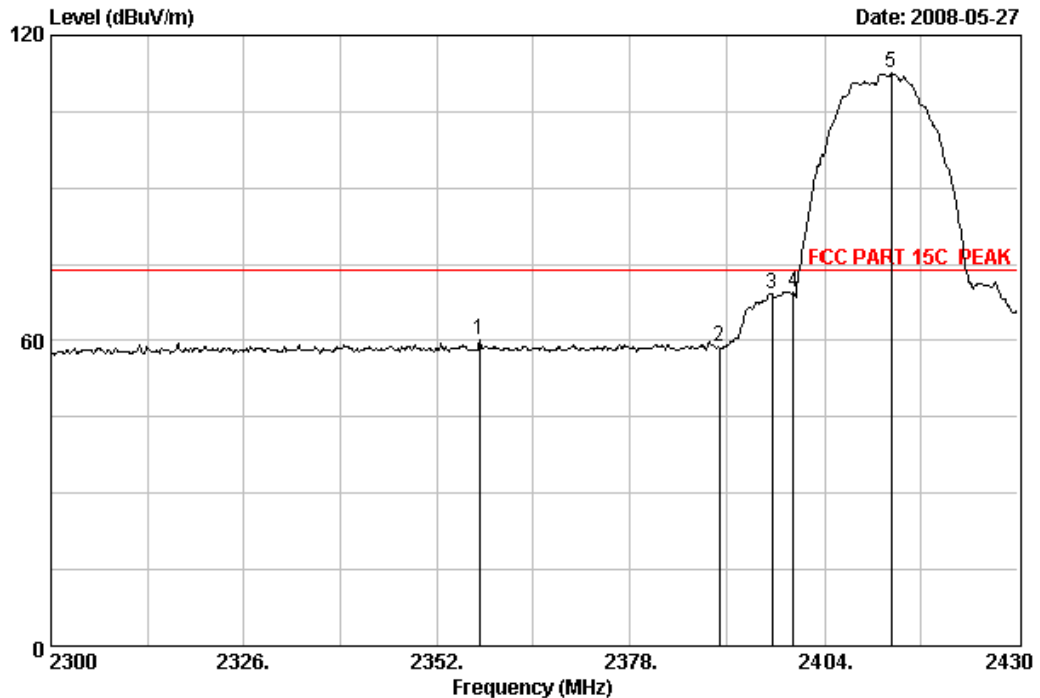


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 175

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 175
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	28.91	6.69	35.19	59.67	60.08	74.00	13.92	Peak	
2	28.99	6.71	35.18	58.36	58.88	74.00	15.12	Peak	
3	28.99	6.73	35.18	68.78	69.32	74.00	4.68	Peak	
4	28.99	6.73	35.18	68.88	69.42	74.00	4.58	Peak	
5	29.03	6.77	35.17	112.08	112.71	74.00	-38.71	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

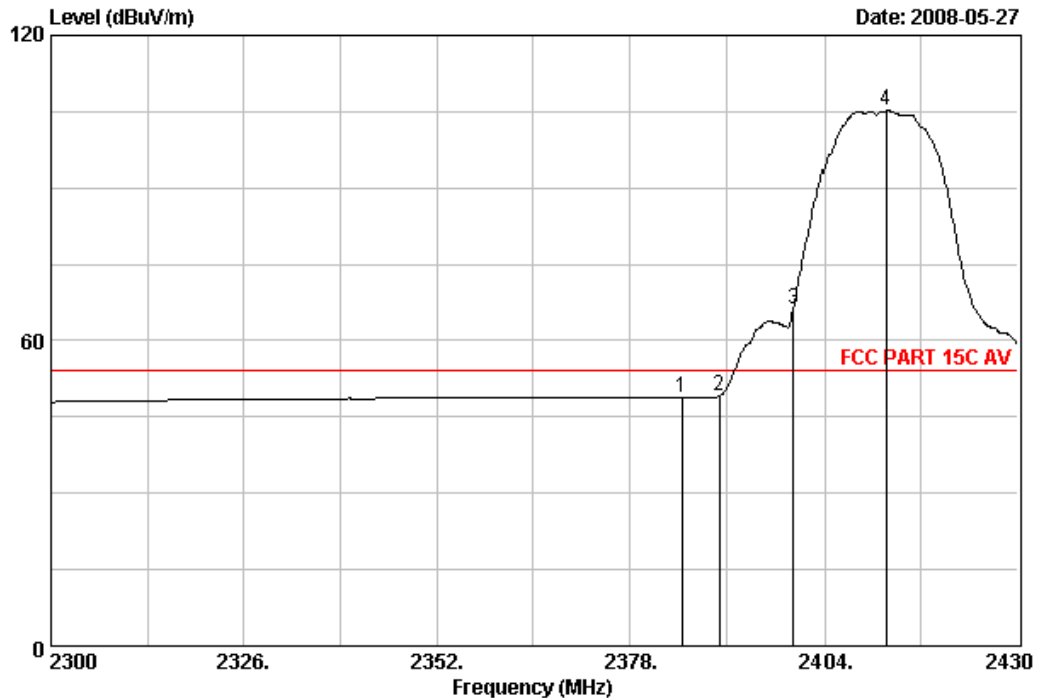


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 176

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 176
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.02	28.95	6.71	35.19	48.41	48.88	54.00	5.12	Average
2	2390.00	28.99	6.71	35.18	48.50	49.02	54.00	4.98	Average
3	2400.00	28.99	6.73	35.18	65.53	66.07	54.00	-12.07	Average
4	2412.32	29.03	6.77	35.18	104.52	105.14	54.00	-51.14	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

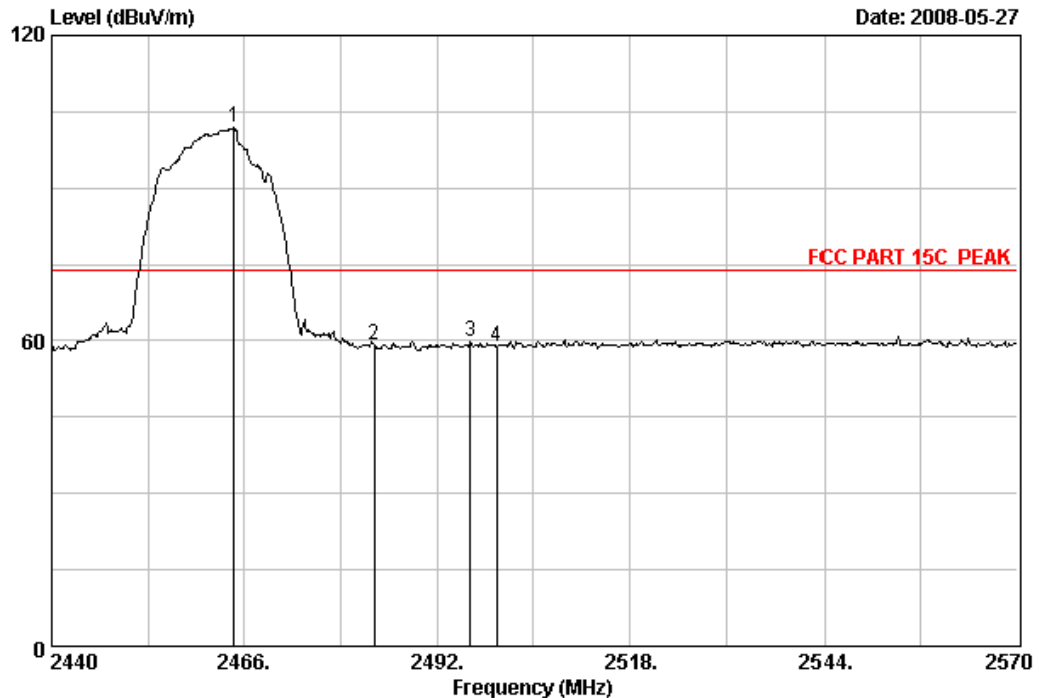


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 179

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 179
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.57	29.15	6.84	35.16	100.97	101.80	74.00	-27.80	Peak
2	2483.50	29.19	6.87	35.16	58.20	59.10	74.00	14.90	Peak
3	2496.42	29.23	6.91	35.15	58.70	59.69	74.00	14.31	Peak
4	2500.00	29.23	6.91	35.15	57.76	58.75	74.00	15.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

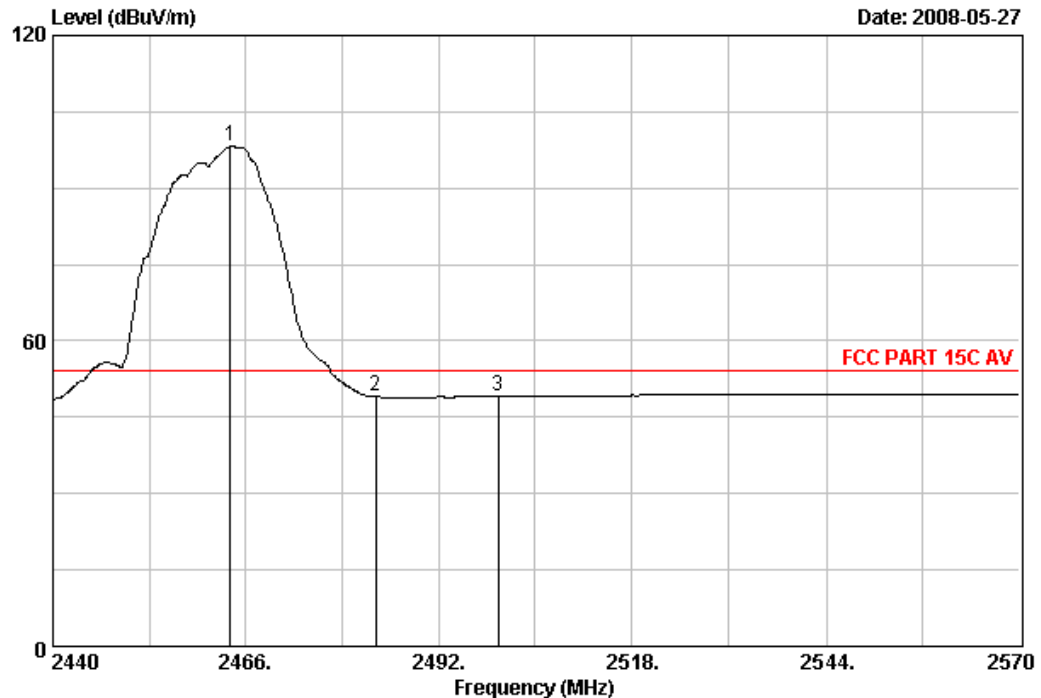


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 180

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Date: 2008-05-27



Site no. : RF Chamber Data no. : 180
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.92	29.15	6.84	35.16	97.35	98.18	54.00	-44.18	Average
2	2483.50	29.19	6.87	35.16	48.11	49.01	54.00	4.99	Average
3	2500.00	29.23	6.91	35.15	48.06	49.05	54.00	4.95	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

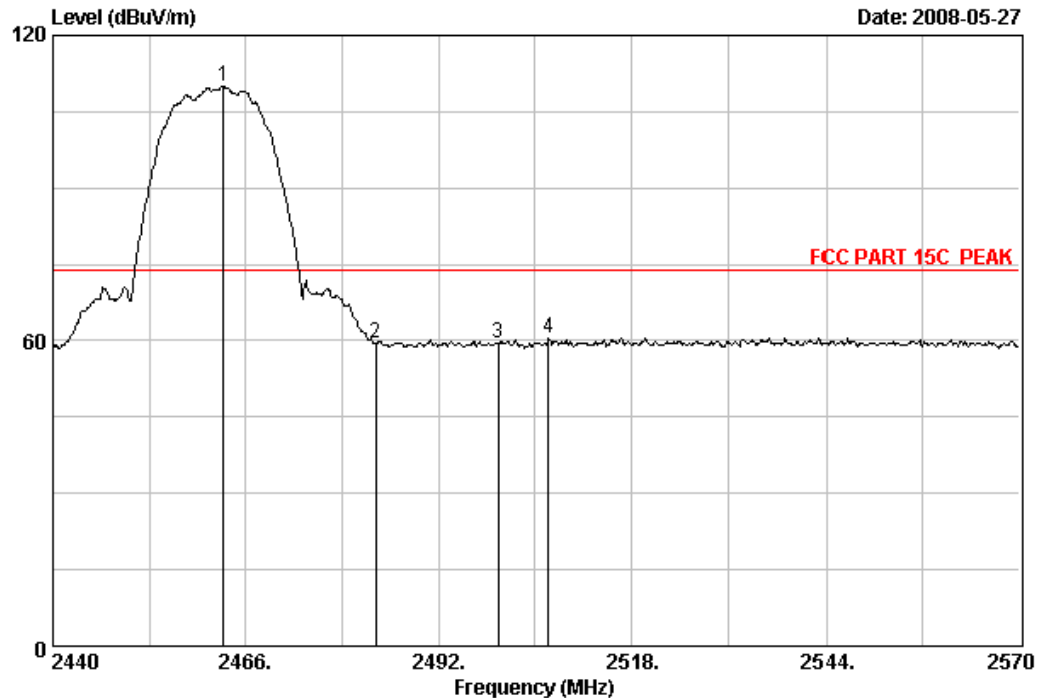


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 181

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 181
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.01	29.15	6.84	35.16	109.31	110.14	74.00	-36.14	Peak
2	2483.50	29.19	6.87	35.16	58.65	59.55	74.00	14.45	Peak
3	2500.00	29.23	6.91	35.15	58.37	59.36	74.00	14.64	Peak
4	2506.82	29.29	6.91	35.15	59.58	60.63	74.00	13.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

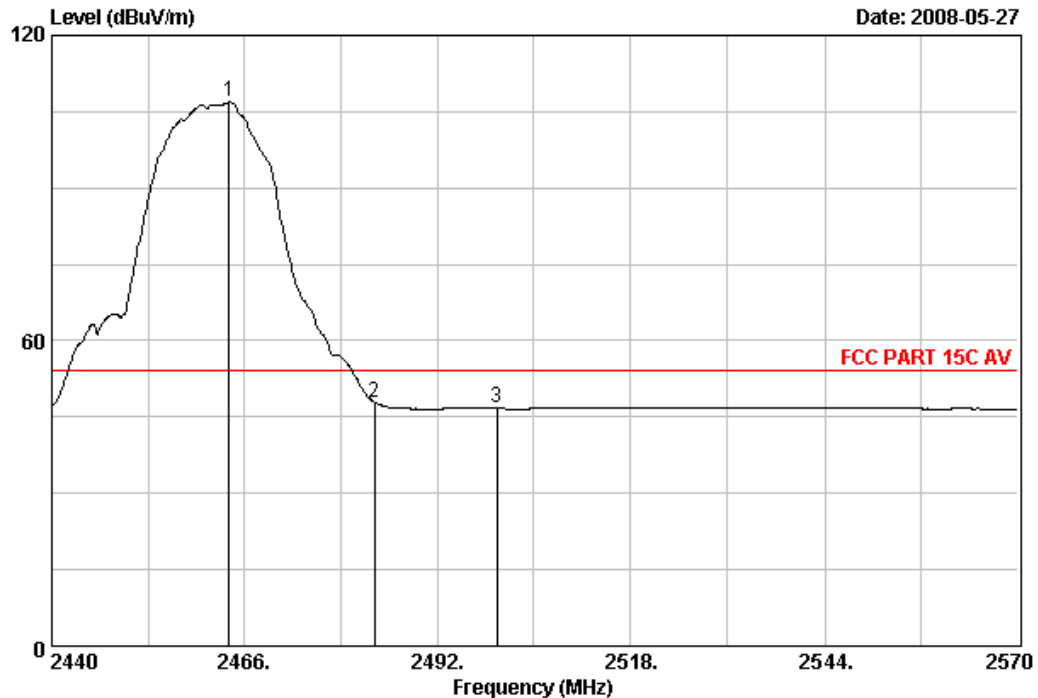


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 182

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 182
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11b CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.92	29.15	6.84	35.16	106.00	106.83	54.00	-52.83	Average
2	2483.50	29.19	6.87	35.16	46.98	47.88	54.00	6.12	Average
3	2500.00	29.23	6.91	35.15	45.70	46.69	54.00	7.31	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

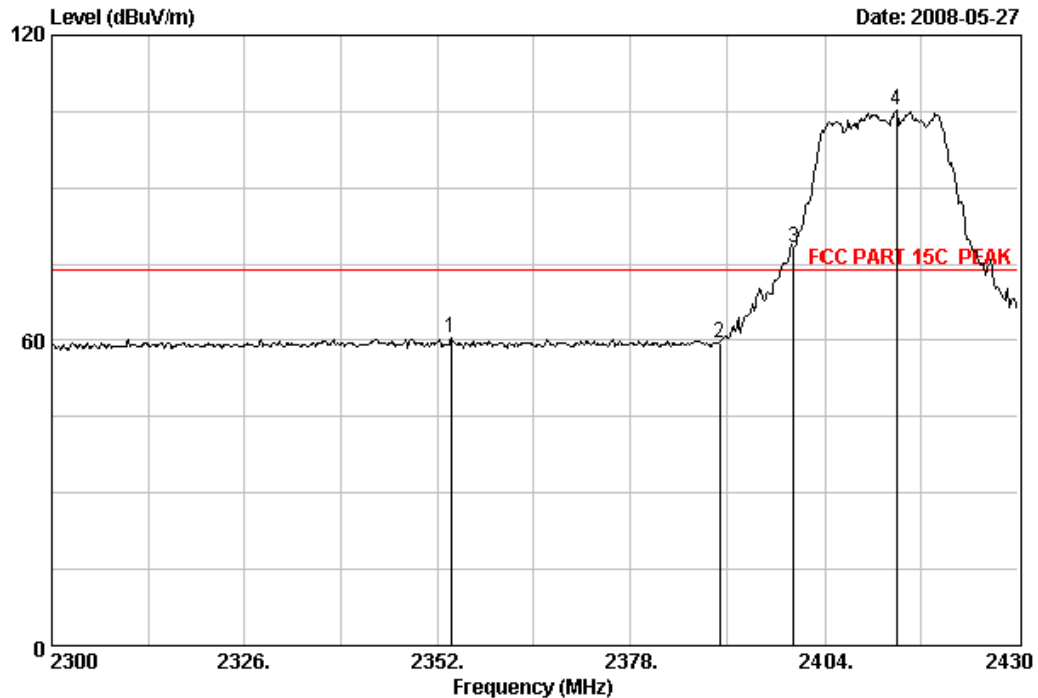


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 185

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 185
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2353.82	28.91	6.67	35.19	60.13	60.52	74.00	13.48	Peak
2	2390.00	28.99	6.71	35.18	59.03	59.55	74.00	14.45	Peak
3	2400.00	28.99	6.73	35.18	77.56	78.10	74.00	-4.10	Peak
4	2413.62	29.03	6.77	35.17	104.72	105.35	74.00	-31.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

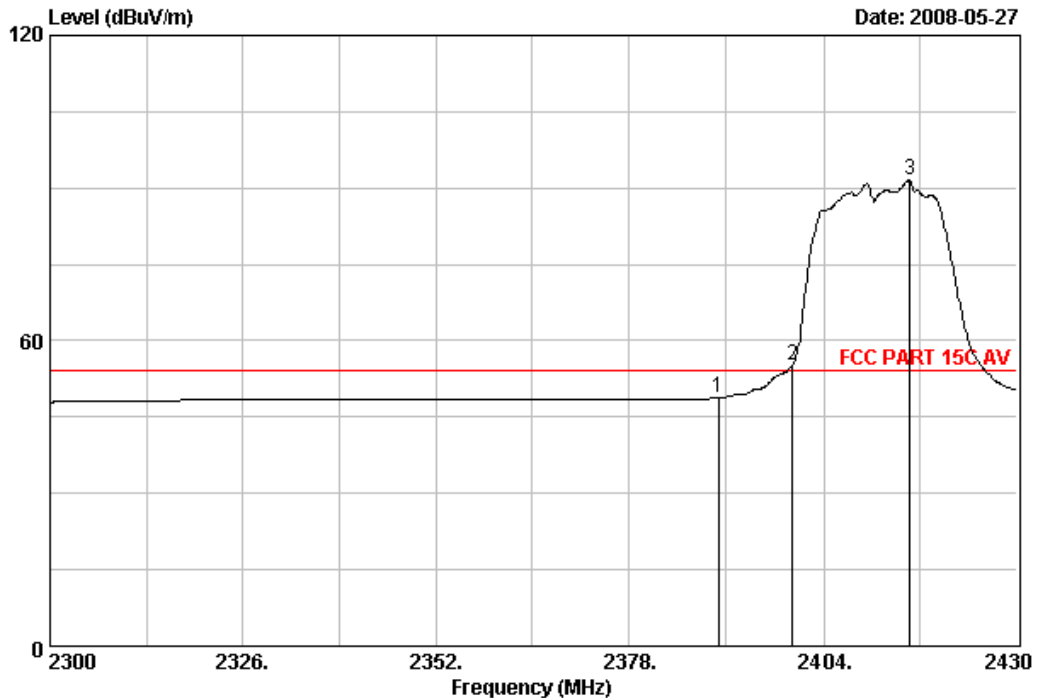


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 186

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 186
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	28.99	6.71	35.18	48.35	48.87	54.00	5.13	Average
2	2400.00	28.99	6.73	35.18	54.74	55.28	54.00	-1.28	Average
3	2415.57	29.03	6.77	35.17	90.98	91.61	54.00	-37.61	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

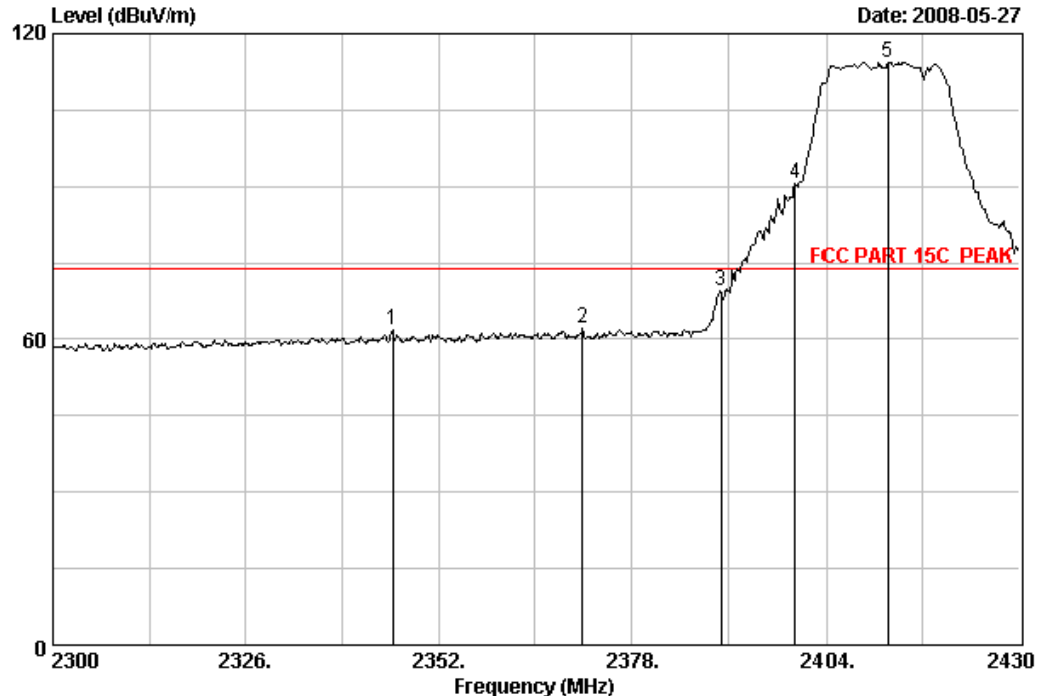


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 183

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 183
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2345.76	28.87	6.67	35.19	61.51	61.86	74.00	12.14	Peak
2	2371.37	28.95	6.69	35.19	61.59	62.04	74.00	11.96	Peak
3	2390.00	28.99	6.71	35.18	68.92	69.44	74.00	4.56	Peak
4	2400.00	28.99	6.73	35.18	90.00	90.54	74.00	-16.54	Peak
5	2412.32	29.03	6.77	35.18	113.77	114.39	74.00	-40.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

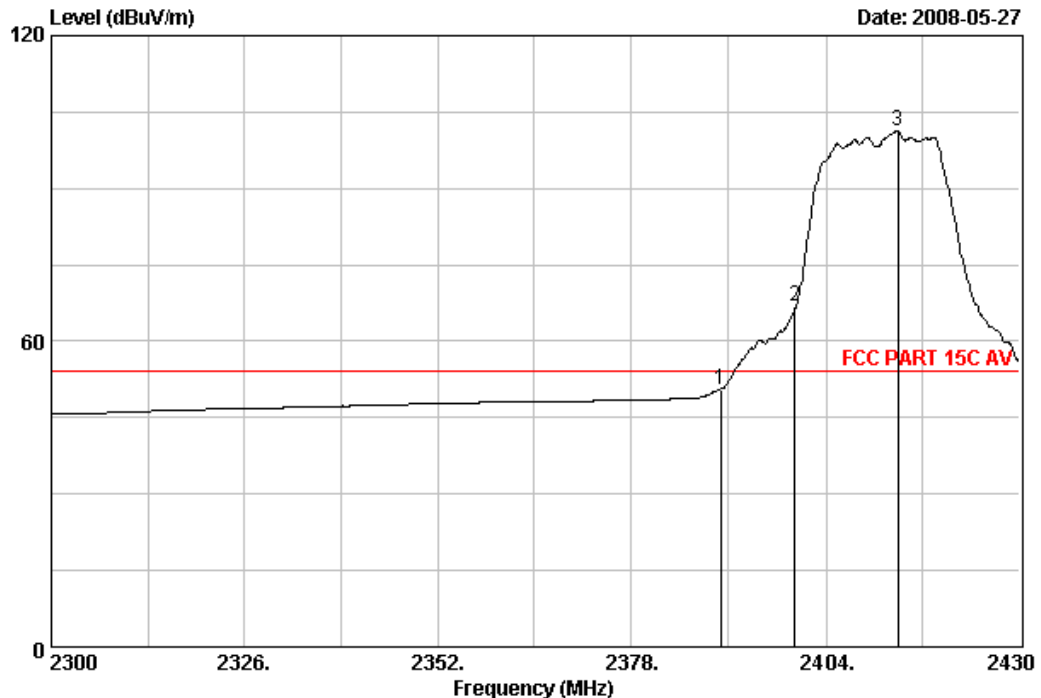


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 184

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 184
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	28.99	6.71	35.18	50.10	50.62	54.00	3.38	Average
2	2400.00	28.99	6.73	35.18	66.46	67.00	54.00	-13.00	Average
3	2413.62	29.03	6.77	35.17	100.66	101.29	54.00	-47.29	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

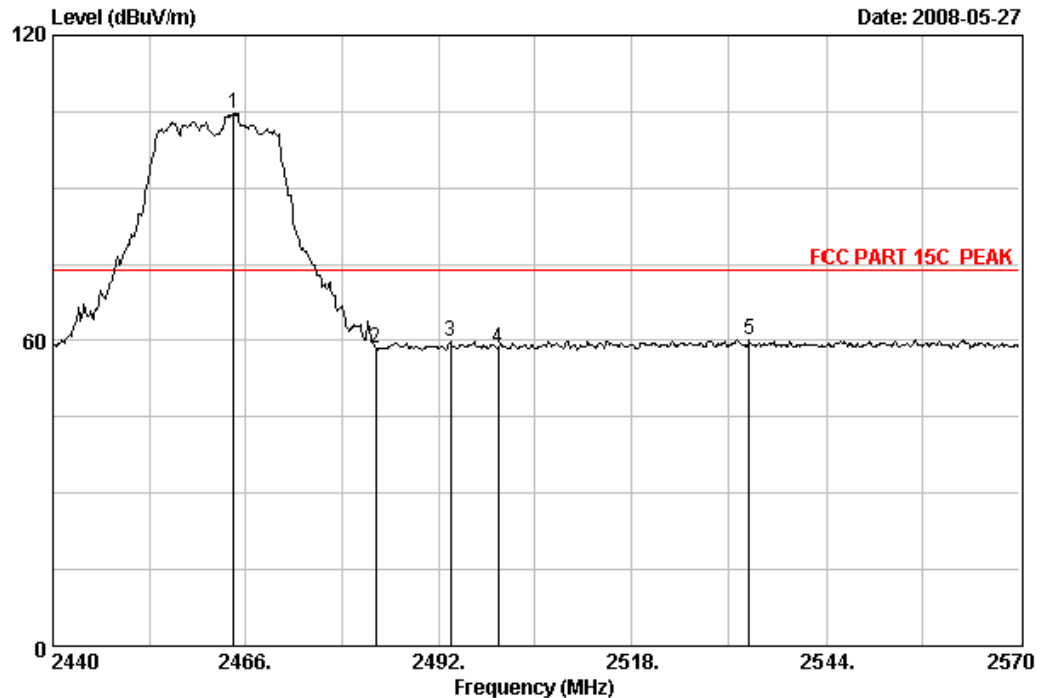


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 187

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 187
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.31	29.15	6.84	35.16	103.79	104.62	74.00	-30.62	Peak
2	2483.50	29.19	6.87	35.16	57.71	58.61	74.00	15.39	Peak
3	2493.56	29.23	6.91	35.15	58.84	59.83	74.00	14.17	Peak
4	2500.00	29.23	6.91	35.15	57.65	58.64	74.00	15.36	Peak
5	2533.86	29.35	6.96	35.14	58.98	60.15	74.00	13.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

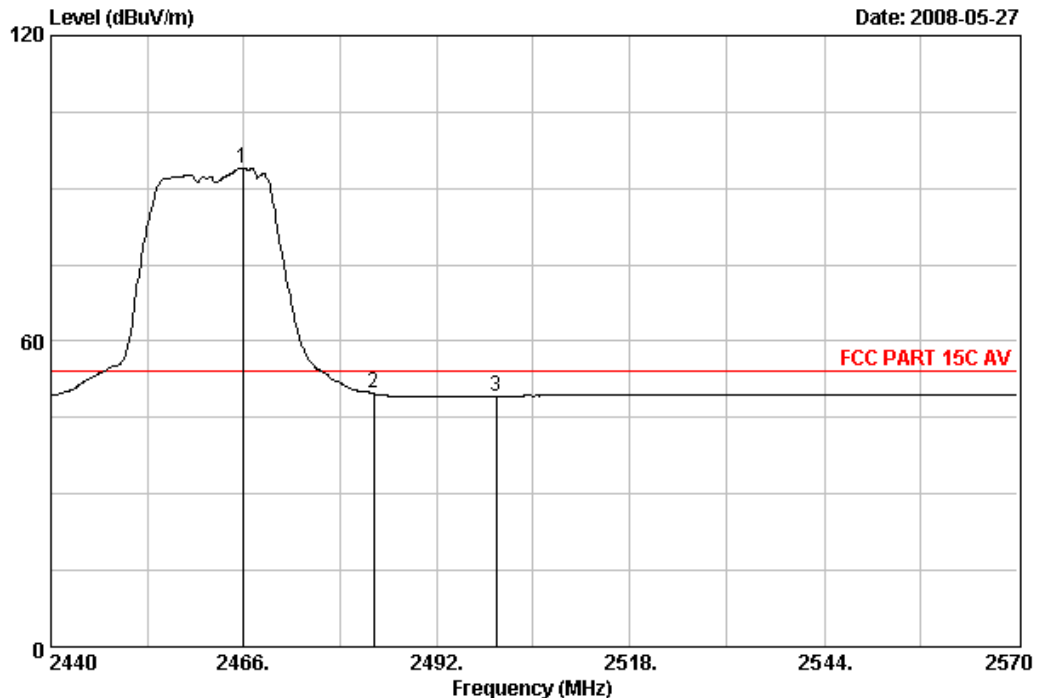


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 188

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 188
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2465.87	29.15	6.84	35.16	93.02	93.85	54.00	-39.85	Average
2	2483.50	29.19	6.87	35.16	48.75	49.65	54.00	4.35	Average
3	2500.00	29.23	6.91	35.15	48.28	49.27	54.00	4.73	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

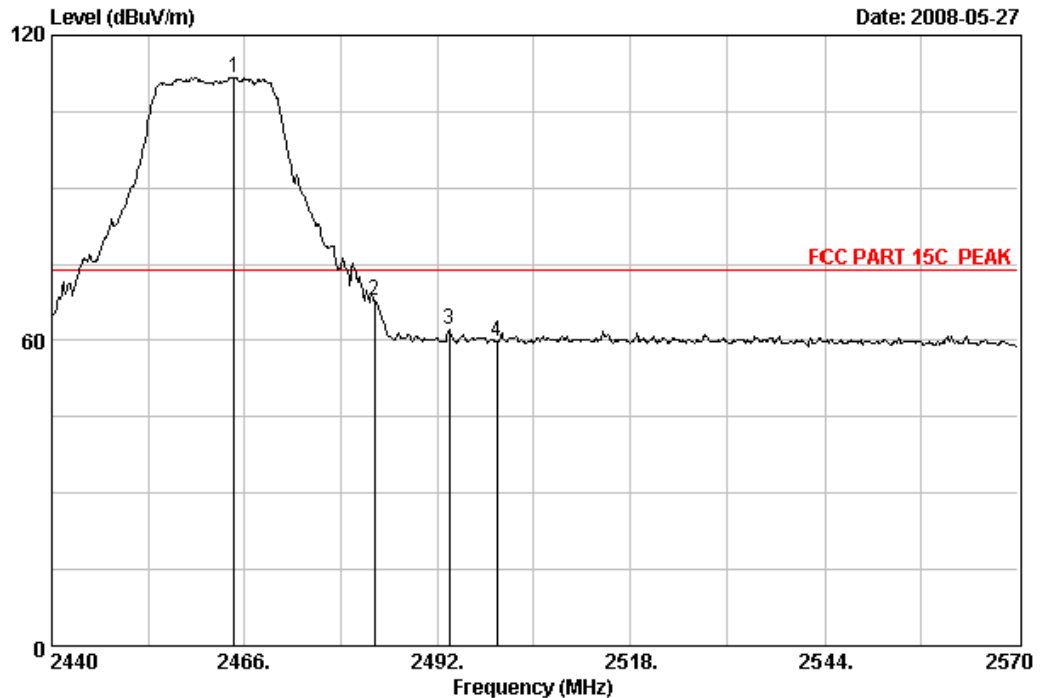


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 189

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 189
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.57	29.15	6.84	35.16	110.98	111.81	74.00	-37.81	Peak
2	2483.50	29.19	6.87	35.16	66.79	67.69	74.00	6.31	Peak
3	2493.56	29.23	6.91	35.15	61.07	62.06	74.00	11.94	Peak
4	2500.00	29.23	6.91	35.15	58.72	59.71	74.00	14.29	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

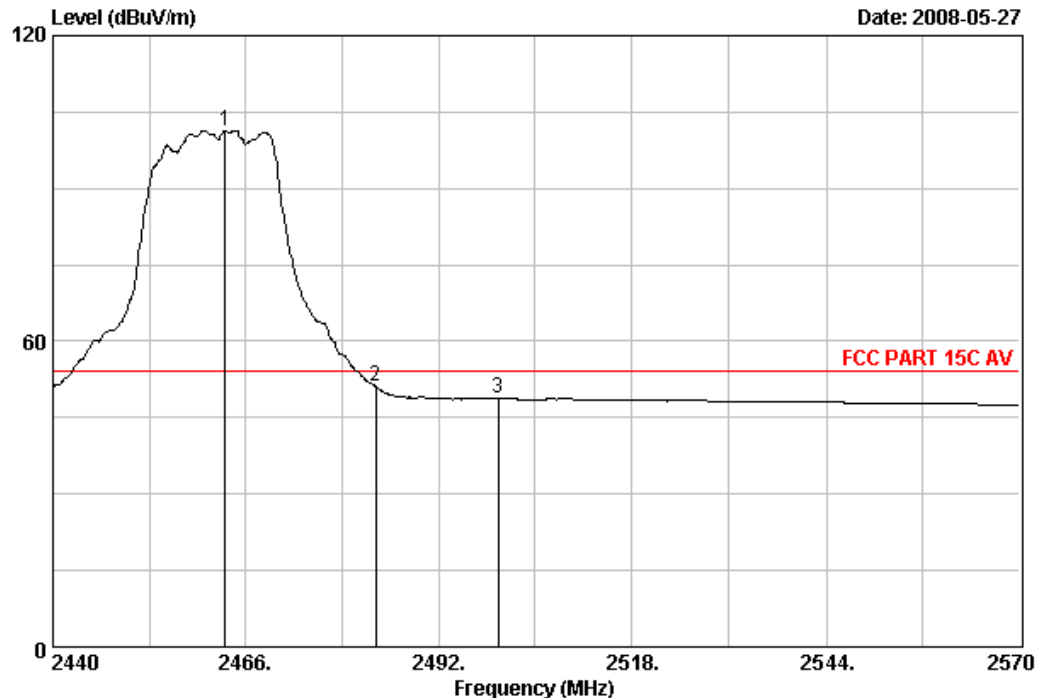


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 190

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 190
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11g CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.27	29.15	6.84	35.16	100.43	101.26	54.00	-47.26	Average
2	2483.50	29.19	6.87	35.16	50.15	51.05	54.00	2.95	Average
3	2500.00	29.23	6.91	35.15	47.88	48.87	54.00	5.13	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

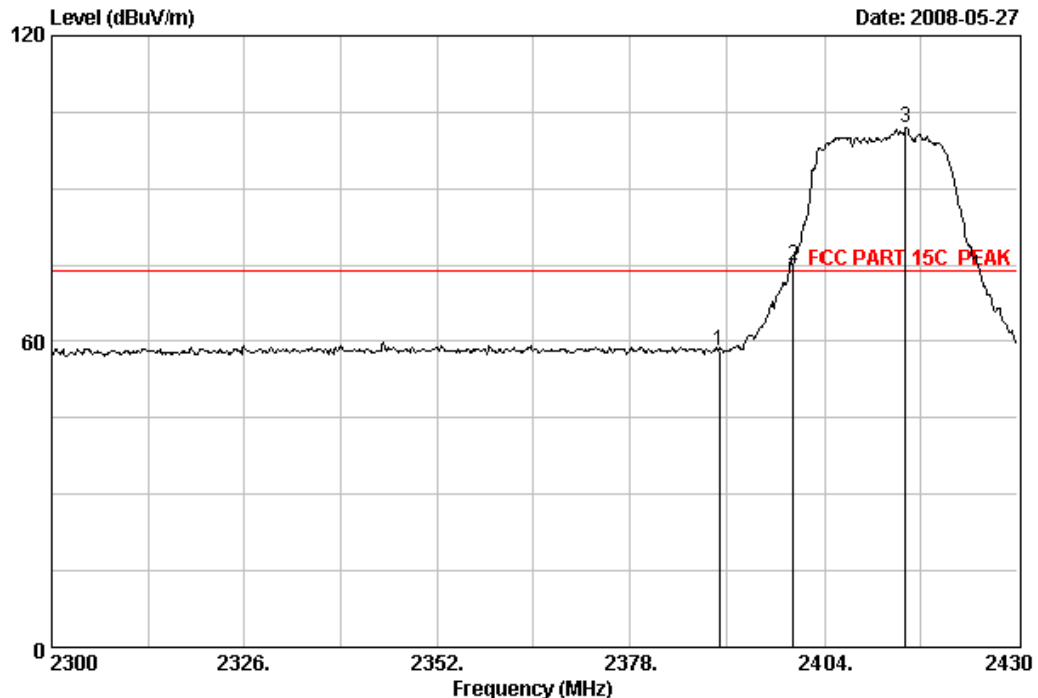


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 193

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Date: 2008-05-27



Site no. : RF Chamber Data no. : 193
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.99	6.71	35.18	57.79	58.31	74.00	15.69	Peak
2	2400.00	28.99	6.73	35.18	74.29	74.83	74.00	-0.83	Peak
3	2414.92	29.03	6.77	35.17	101.22	101.85	74.00	-27.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

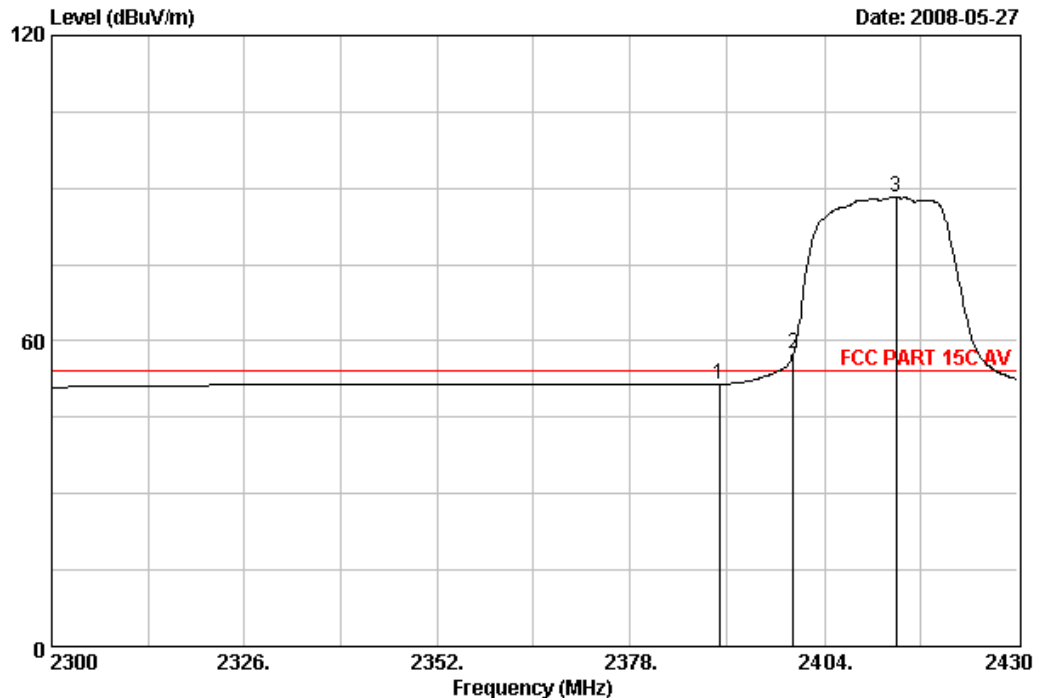


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 194

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 194
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.99	6.71	35.18	50.96	51.48	54.00	2.52	Average
2	2400.00	28.99	6.73	35.18	56.92	57.46	54.00	-3.46	Average
3	2413.62	29.03	6.77	35.17	87.58	88.21	54.00	-34.21	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

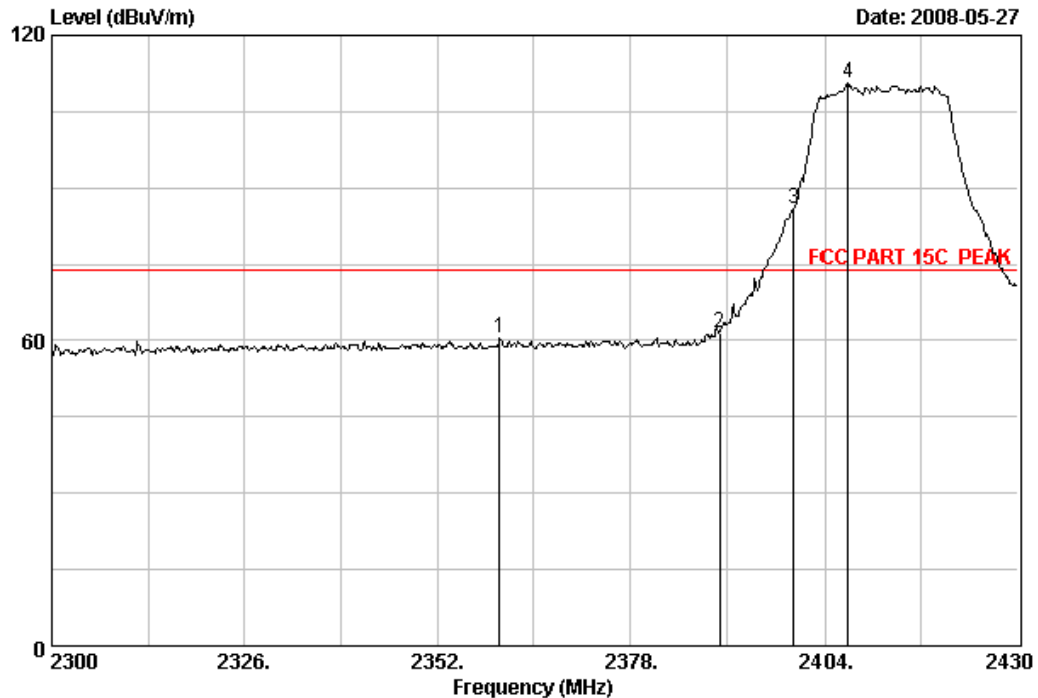


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 191

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 191
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

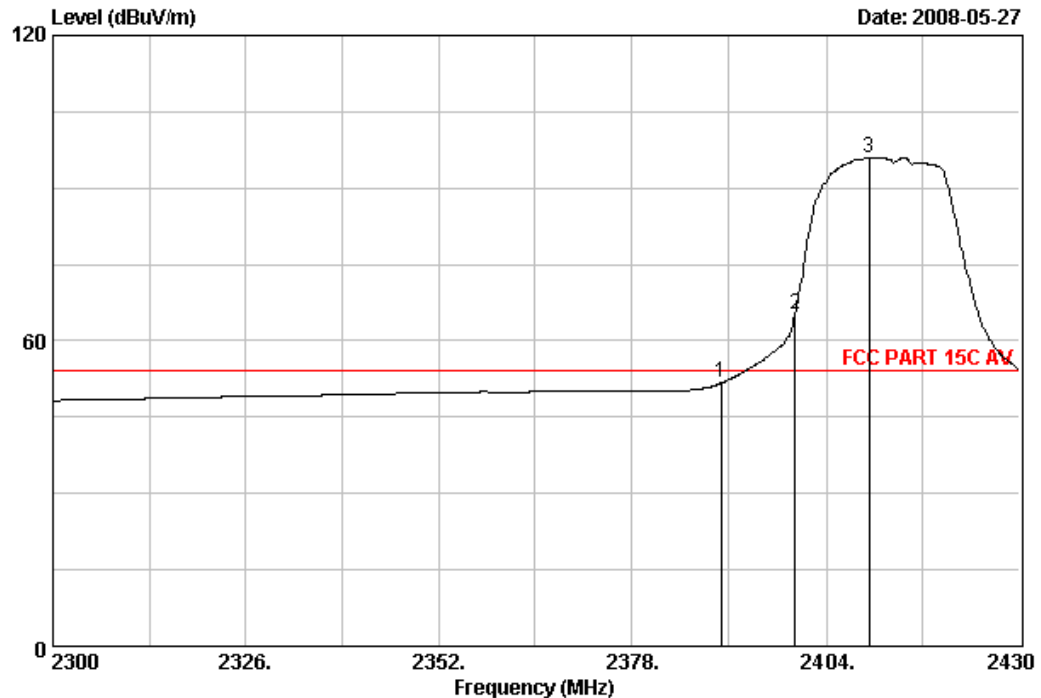
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2360.32	28.91	6.69	35.19	60.08	60.49	74.00	13.51	Peak
2	2390.00	28.99	6.71	35.18	60.84	61.36	74.00	12.64	Peak
3	2400.00	28.99	6.73	35.18	85.52	86.06	74.00	-12.06	Peak
4	2407.12	29.03	6.73	35.18	110.02	110.60	74.00	-36.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 192 File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)



Site no. : RF Chamber Data no. : 192
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	28.99	6.71	35.18	51.16	51.68	54.00	2.32	Average
2	2400.00	28.99	6.73	35.18	64.51	65.05	54.00	-11.05	Average
3	2409.72	29.03	6.73	35.18	95.41	95.99	54.00	-41.99	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

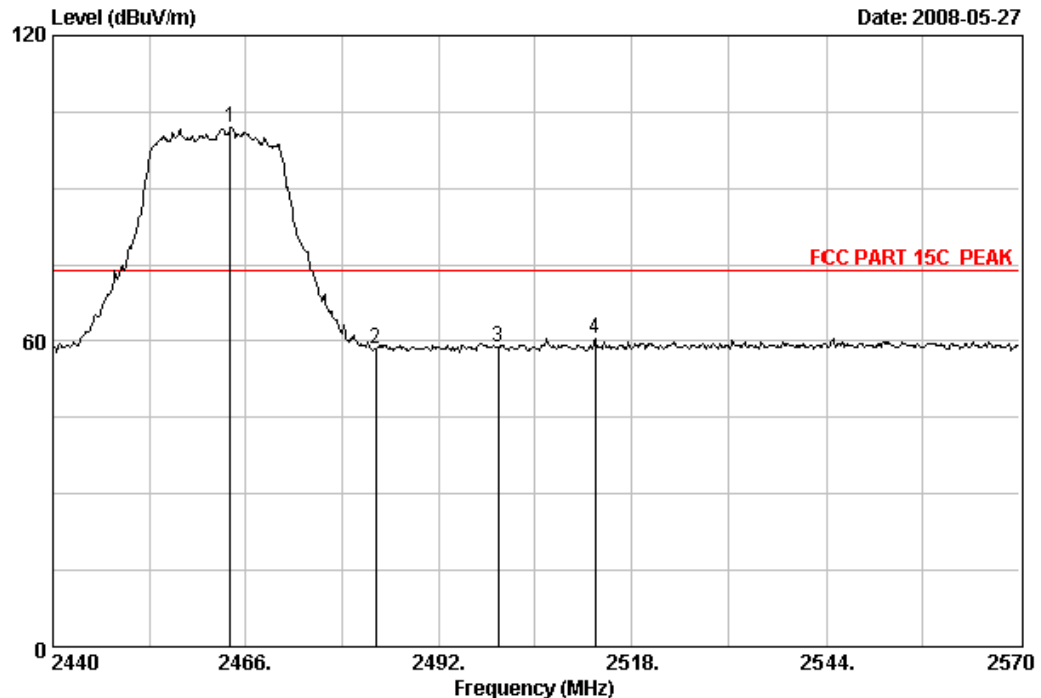


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 195

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Date: 2008-05-27



Site no. : RF Chamber Data no. : 195
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.92	29.15	6.84	35.16	101.07	101.90	74.00	-27.90	Peak
2	2483.50	29.19	6.87	35.16	57.74	58.64	74.00	15.36	Peak
3	2500.00	29.23	6.91	35.15	57.68	58.67	74.00	15.33	Peak
4	2513.06	29.29	6.93	35.14	59.33	60.41	74.00	13.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

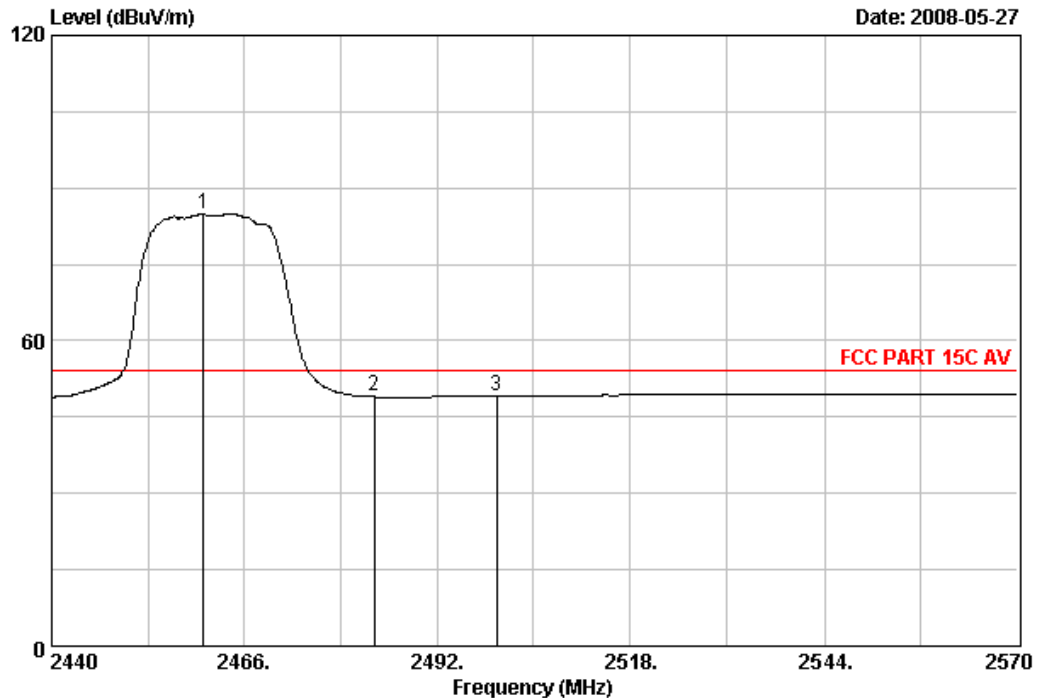


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 196

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 196
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.41	29.15	6.84	35.17	84.18	85.00	54.00	-31.00	Average
2	2483.50	29.19	6.87	35.16	48.07	48.97	54.00	5.03	Average
3	2500.00	29.23	6.91	35.15	48.10	49.09	54.00	4.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

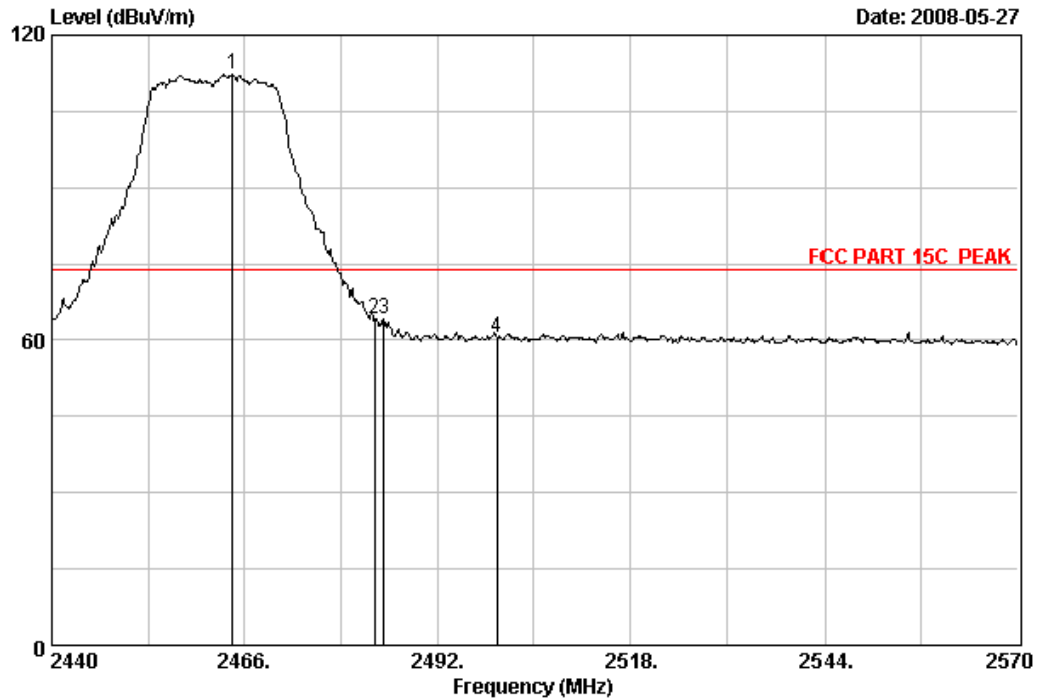


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 197

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 197
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.31	29.15	6.84	35.16	111.40	112.23	74.00	-38.23	Peak
2	2483.50	29.19	6.87	35.16	63.12	64.02	74.00	9.98	Peak
3	2484.72	29.19	6.87	35.16	63.36	64.26	74.00	9.74	Peak
4	2500.00	29.23	6.91	35.15	59.38	60.37	74.00	13.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

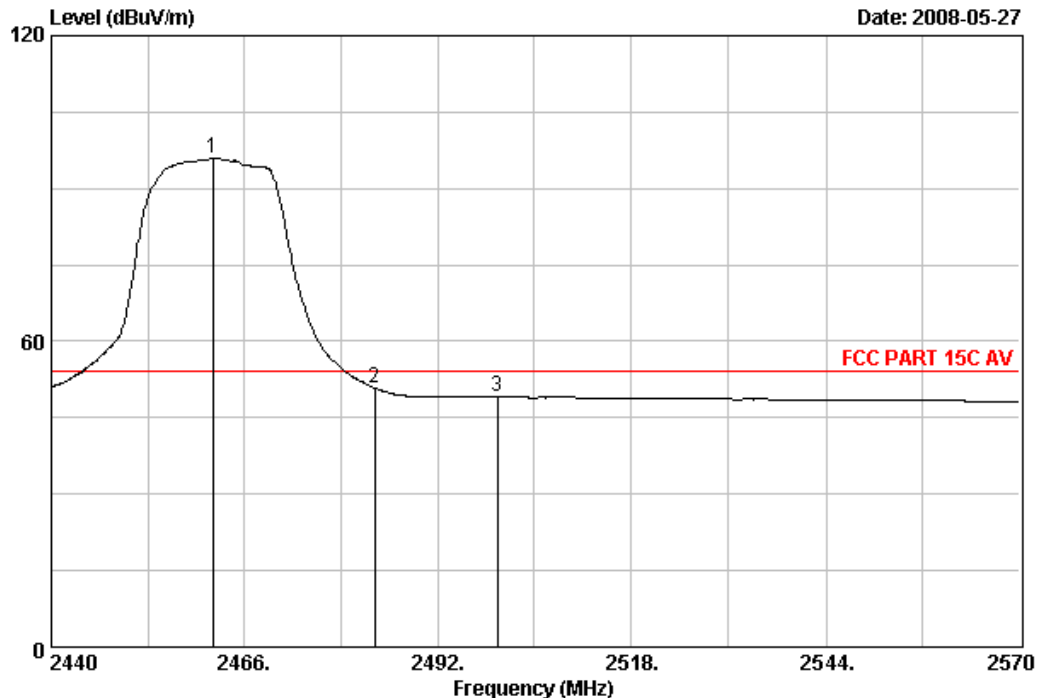


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 198

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Date: 2008-05-27



Site no. : RF Chamber Data no. : 198
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.71	29.15	6.84	35.17	95.09	95.91	54.00	-41.91	Average
2	2483.50	29.19	6.87	35.16	49.90	50.80	54.00	3.20	Average
3	2500.00	29.23	6.91	35.15	48.13	49.12	54.00	4.88	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

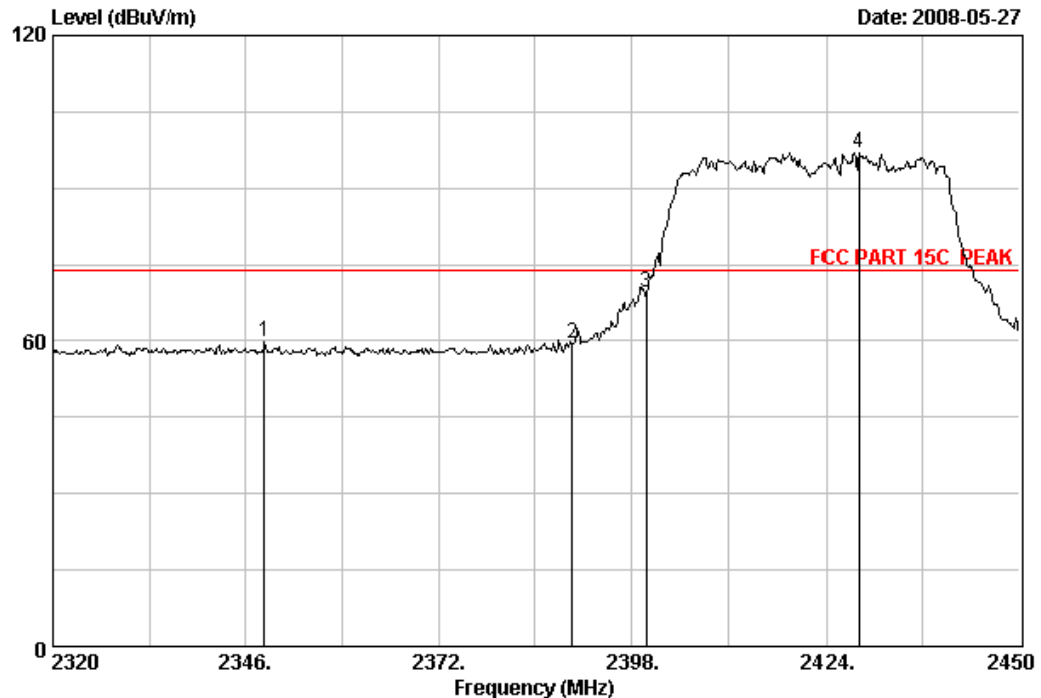


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 201

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Date: 2008-05-27



Site no. : RF Chamber Data no. : 201
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2348.47	28.87	6.67	35.19	59.40	59.75	74.00	14.25	Peak
2	2390.00	28.99	6.71	35.18	59.06	59.58	74.00	14.42	Peak
3	2400.00	28.99	6.73	35.18	68.83	69.37	74.00	4.63	Peak
4	2428.42	29.07	6.77	35.17	96.37	97.04	74.00	-23.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

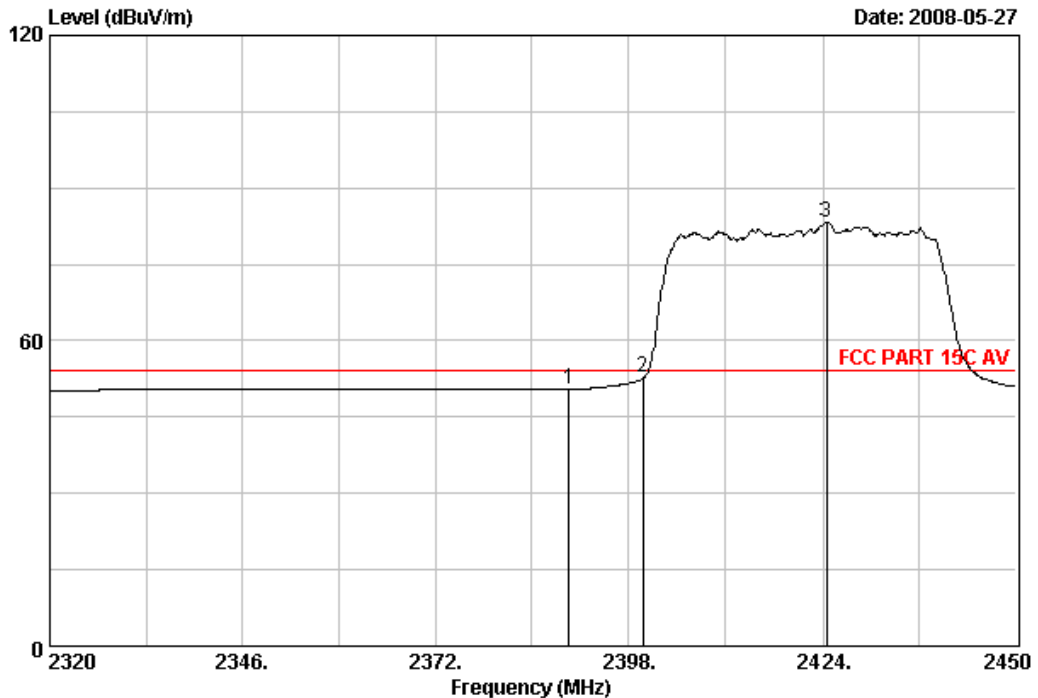


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 202

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 202
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	28.99	6.71	35.18	49.99	50.51	54.00	3.49	Average
2	2400.00	28.99	6.73	35.18	52.12	52.66	54.00	1.34	Average
3	2424.52	29.07	6.77	35.17	82.62	83.29	54.00	-29.29	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

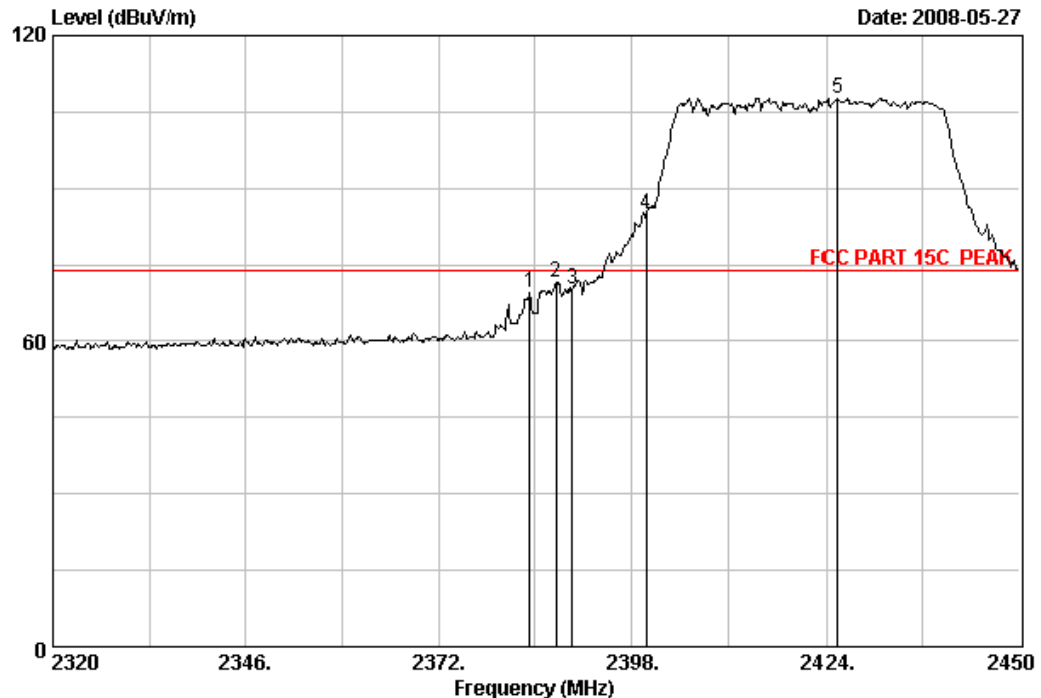


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 199

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 199
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2384.22	28.95	6.71	35.19	68.93	69.40	74.00	4.60	Peak
2	2387.86	28.99	6.71	35.18	70.93	71.45	74.00	2.55	Peak
3	2390.00	28.99	6.71	35.18	69.64	70.16	74.00	3.84	Peak
4	2400.00	28.99	6.73	35.18	84.33	84.87	74.00	-10.87	Peak
5	2425.56	29.07	6.77	35.17	107.10	107.77	74.00	-33.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

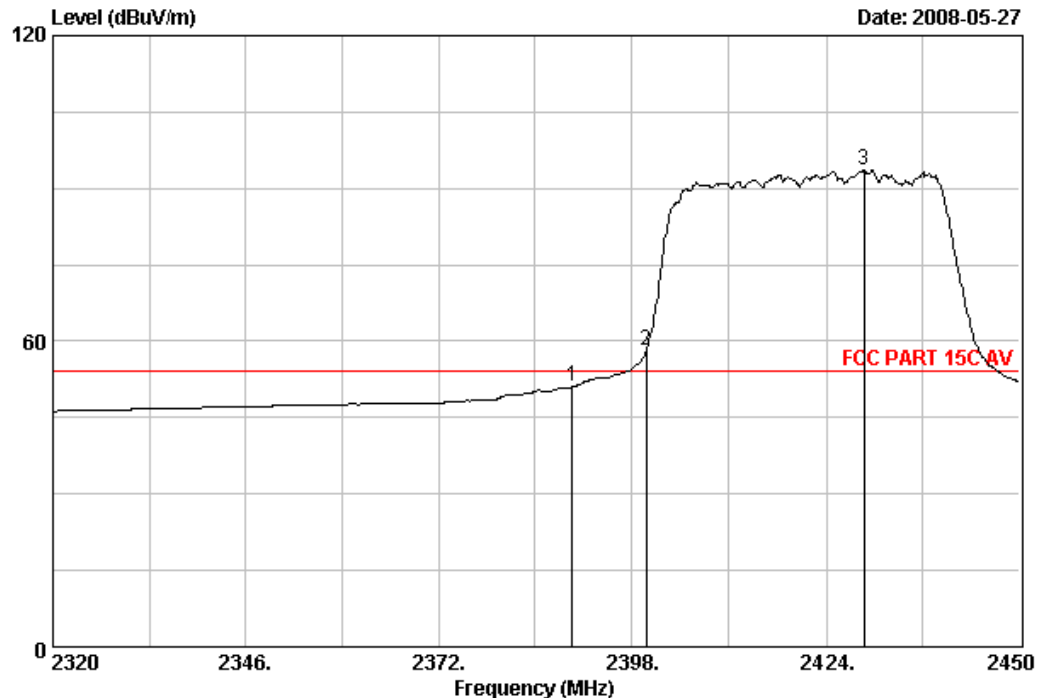


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 200

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 200
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.99	6.71	35.18	50.54	51.06	54.00	2.94	Average
2	2400.00	28.99	6.73	35.18	57.48	58.02	54.00	-4.02	Average
3	2429.07	29.07	6.77	35.17	93.01	93.68	54.00	-39.68	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

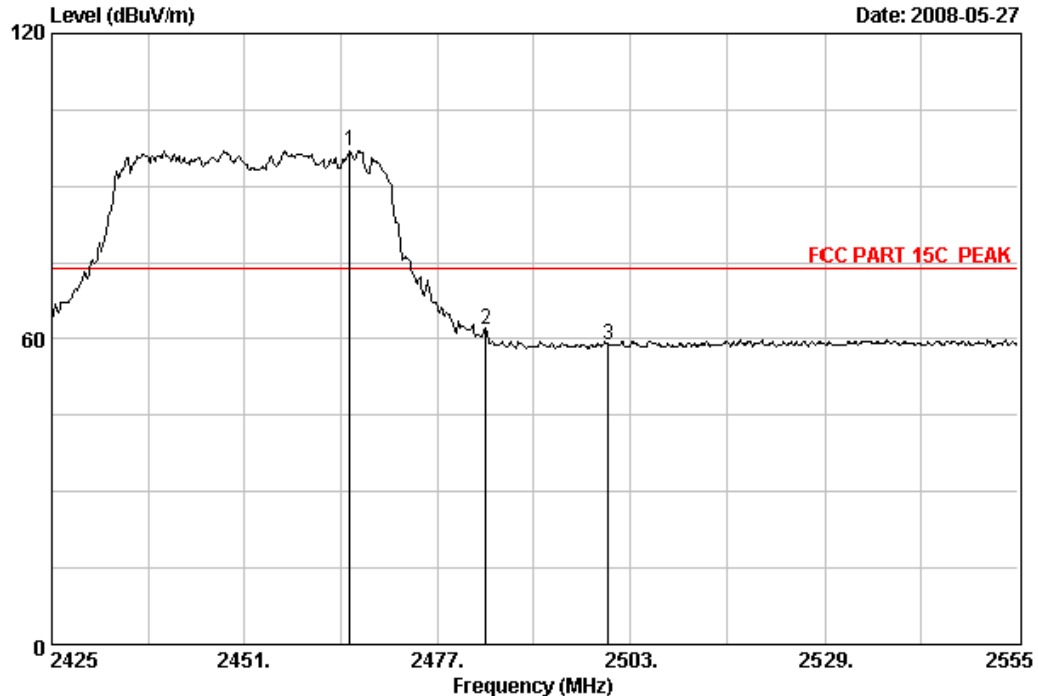


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ShenZhen Science & Industry Park
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Tel:+86-755-2 6639495-7
Fax:+86-755-2 6632877
Postcode:518057

Data: 203

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 203
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.17	29.15	6.84	35.16	96.14	96.97	74.00	-22.97	Peak
2	2483.50	29.19	6.87	35.16	60.83	61.73	74.00	12.27	Peak
3	2500.00	29.23	6.91	35.15	57.88	58.87	74.00	15.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

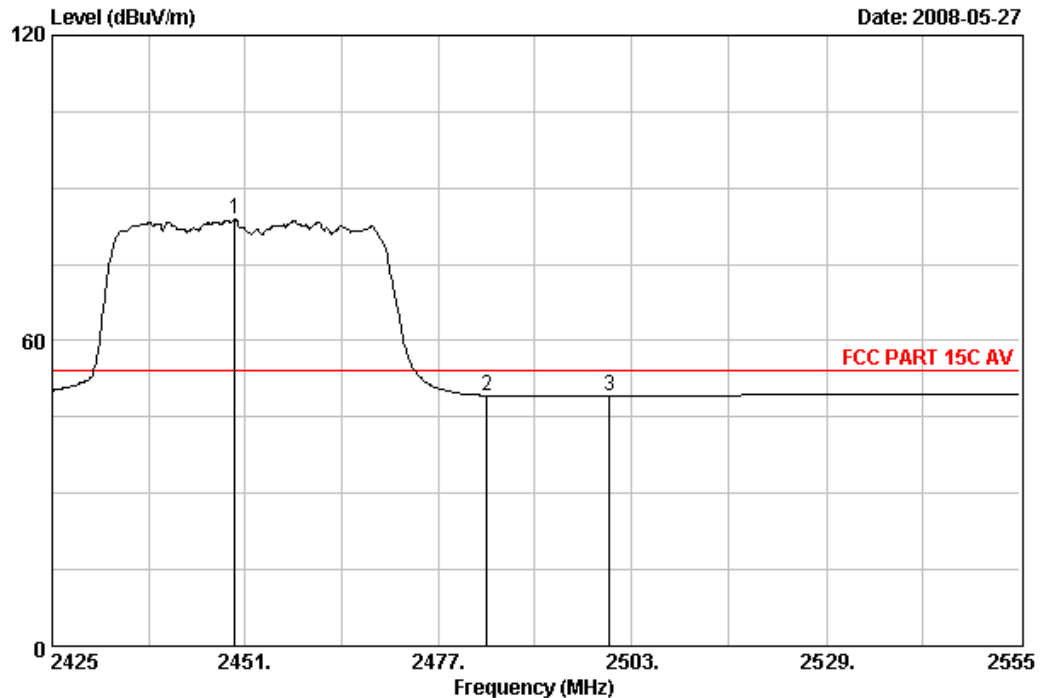


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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 204

File: D:\2008 report data\T\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 204
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2449.57	29.11	6.80	35.17	83.21	83.95	54.00	-29.95	Average
2	2483.50	29.19	6.87	35.16	48.29	49.19	54.00	4.81	Average
3	2500.00	29.23	6.91	35.15	48.07	49.06	54.00	4.94	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

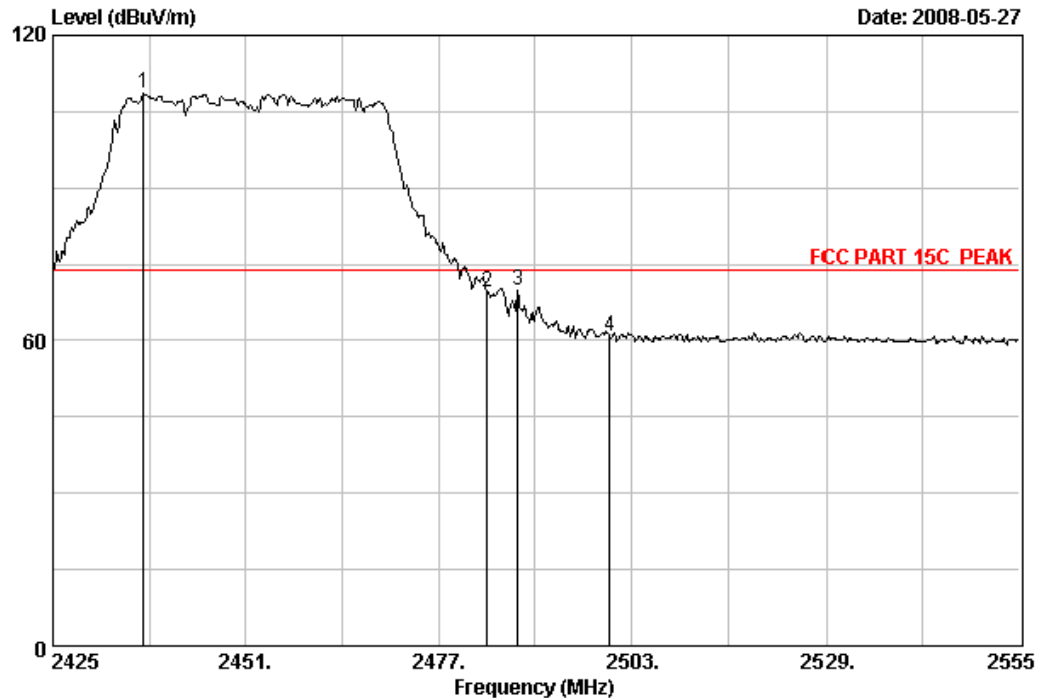


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 205

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 205
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.22	29.11	6.80	35.17	107.73	108.47	74.00	-34.47	Peak
2	2483.50	29.19	6.87	35.16	68.52	69.42	74.00	4.58	Peak
3	2487.66	29.23	6.87	35.15	69.00	69.95	74.00	4.05	Peak
4	2500.00	29.23	6.91	35.15	59.79	60.78	74.00	13.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

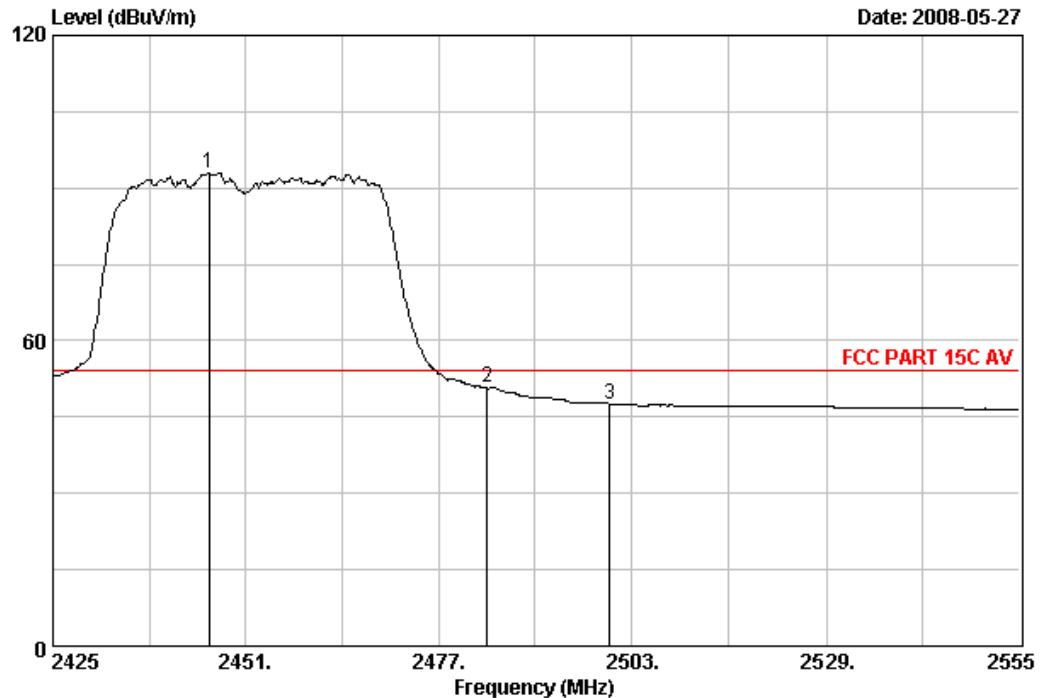


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Data: 206

File: D:\2008 report data\TP-LINK\TL-WR841ND.EMI (206)

Date: 2008-05-27



Site no. : RF Chamber Data no. : 206
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jany
EUT : Wireless N Route M/N:TL-WR841ND
Power Rating: DC 12 V From adapter AC120V/60Hz
Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2446.06	29.11	6.80	35.17	92.28	93.02	54.00	-39.02	Average
2	2483.50	29.19	6.87	35.16	49.77	50.67	54.00	3.33	Average
3	2500.00	29.23	6.91	35.15	46.62	47.61	54.00	6.39	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

8. POWER SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,11, 07	1 Year
2	RF Cable	MIYAZAKI	8D-FB	NO 3	May,11,07	1 Year

8.2. Test Information

EUT:	Wireless N Router
M/N:	TL-WR841ND
Test Date:	Apr.26, 2008
Ambient Temperature:	23°C
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX / IEEE 802.11g TX IEEE 802.11n TX (HT20) / IEEE 802.11n TX (HT40)
Test Frequency:	11b,11g,11n HT20: CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz 11n HT40: CH1: 2422MHz CH4: 2437MHz CH7: 2452MHz
Test By:	Jamy

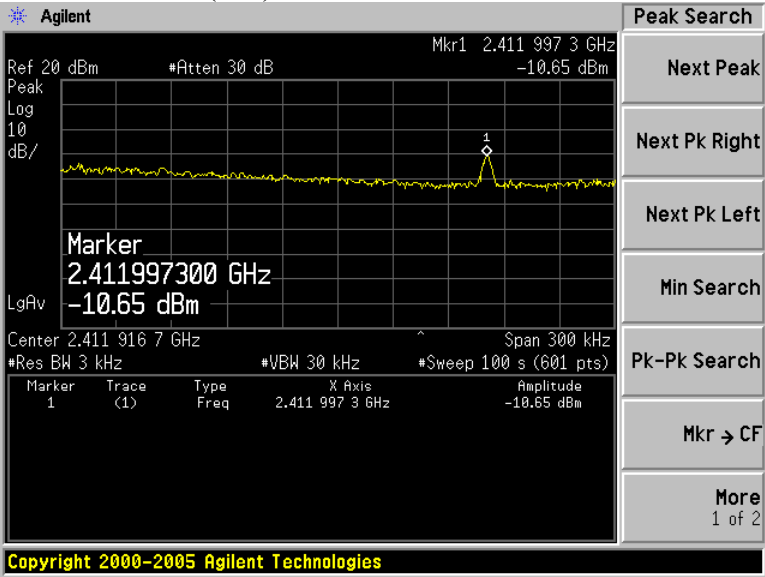
8.3. Test Procedure

The transmitter output was connected to a spectrum analyzer . The power density was measured by spectrum analyzer with 3 KHz RBW and 30KHz VBW, sweep time=span/3KHz.

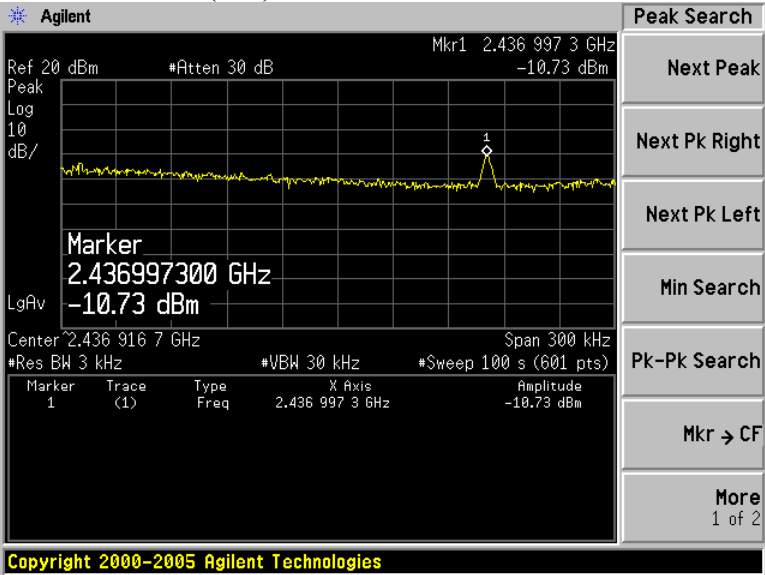
8.4.Test Results

Maximum Power density							
EUT: Wireless N Router M/N:TL-WR841ND							
Power: DC 12V From adapter 120V/60Hz							
Data Rate:11b 1Mbps ; 11g : 6Mbps ; 11n HT20 : 6.5Mbps ; 11n HT40 : 13.5Mbps(Note 1)							
Ambient Temperature:23℃			Relative Humidity: 60%				
Test date:2008/04/24			Test site: RF site		Tested By: Jamy		
Cable Loss: 0.6dB Antenna Gain:3dBi							
Test CH	11b,11g,11n HT20		CH1:2412MHz CH6:2437MHz CH11:2462MHz				
Test CH	11n HT40		CH1:2422MHz CH4:2437MHz CH7:2452MHz				
Mode	CH	Chain1		Chain2		Result	
		Read(dBm)	Level(dBm)	Read(dBm)	Level(dBm)	Total Power (dBm)	Limit (dBm)
11b	CH1	-10.65	-10.05	-10.72	-10.12	-7.07	8
	CH6	-10.73	-10.13	-10.87	-10.27	-7.19	8
	CH11	-11.08	-10.48	-10.44	-9.84	-7.14	8
11g	CH1	-16.72	-16.12	-16.97	-16.37	-13.23	8
	CH6	-16.65	-16.05	-17.34	-16.74	-13.37	8
	CH11	-16.81	-16.21	-17.88	-17.28	-13.70	8
11n HT20	CH1	-16.72	-16.12	-17.50	-16.90	-13.48	8
	CH6	-18.41	-17.81	-16.62	-16.02	-13.81	8
	CH11	-18.03	-17.43	-17.70	-17.10	-14.25	8
11n HT40	CH1	-22.39	-21.79	-20.20	-19.60	-17.55	8
	CH4	-20.84	-20.24	-21.95	-21.35	-17.75	8
	CH7	-21.46	-20.86	-21.48	-20.88	-17.86	8
Note1:According Exploratory test, These data rate have the maximum output power							
Note2:Level=Read+ cable loss Total power=Chain1 Level +Chain2 Level (Linear)							

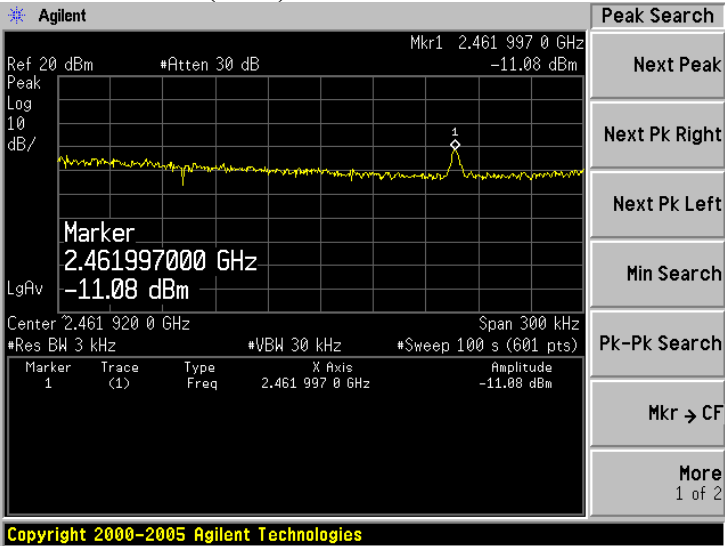
CHAIN1:
IEEE 802.11b (ch1)



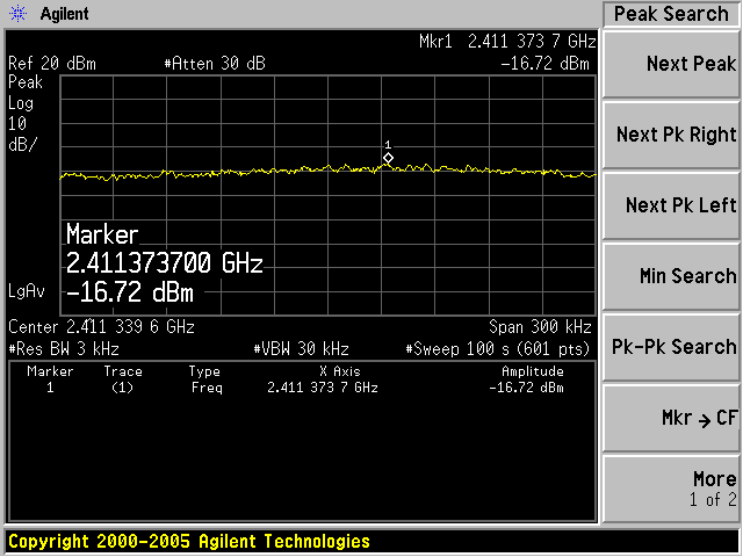
IEEE 802.11b (ch6)



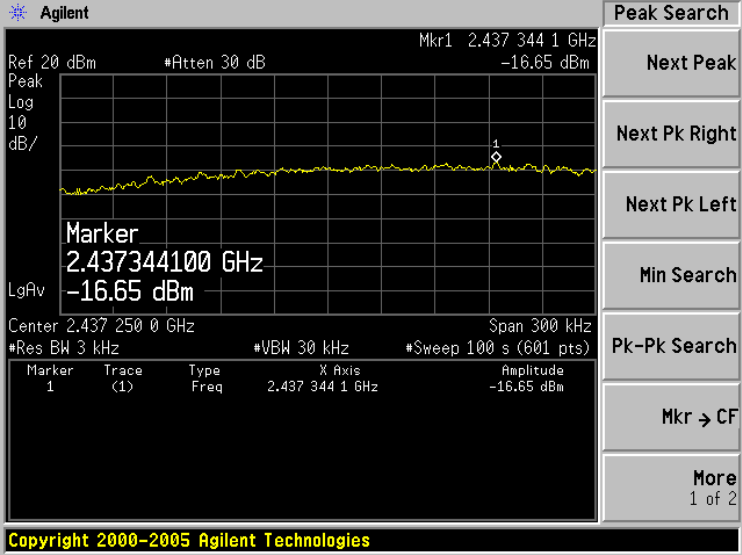
IEEE 802.11b (ch11)



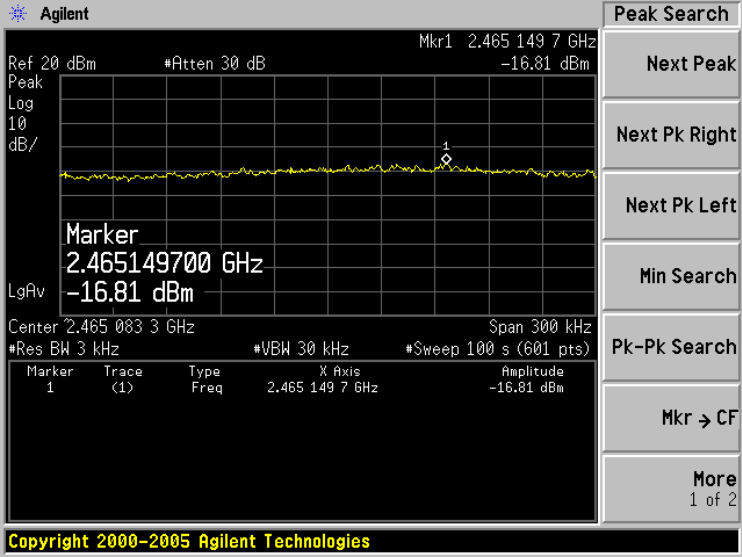
IEEE 802.11g (ch1)



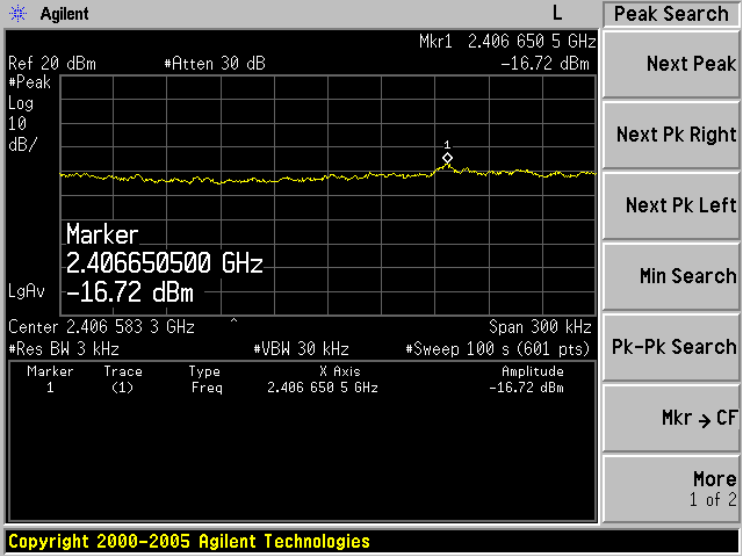
IEEE 802.11b (ch6)



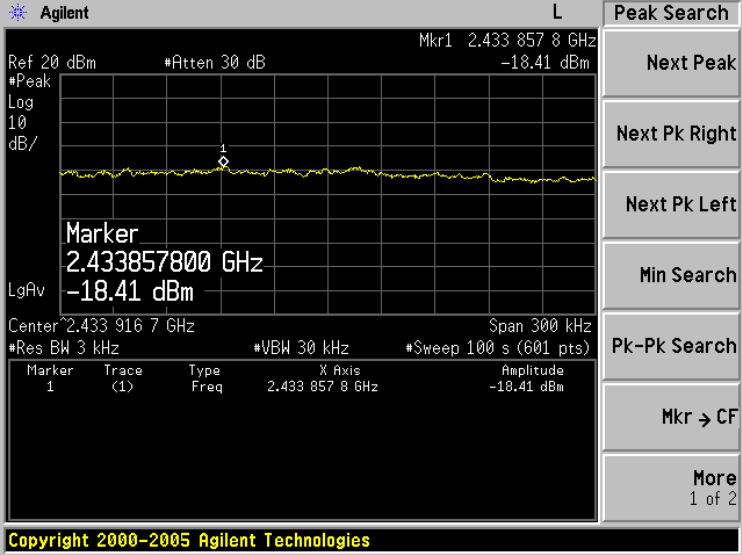
IEEE 802.11b (ch11)



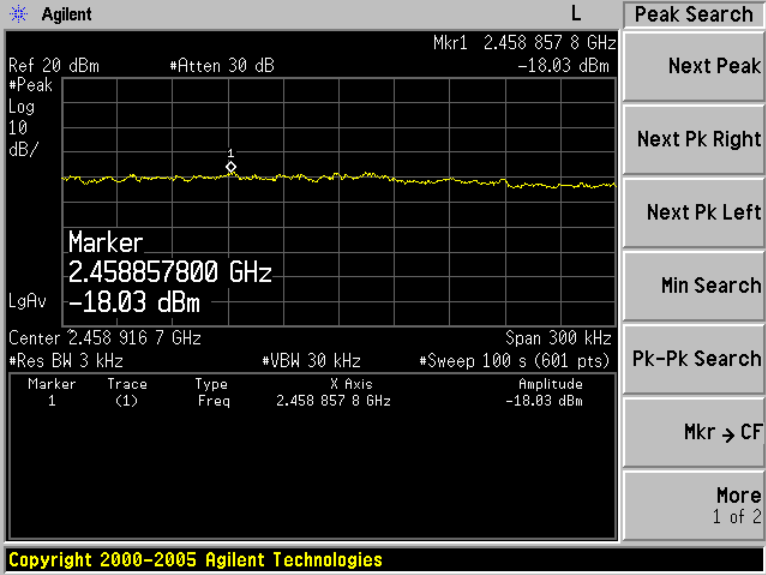
IEEE 802.11n HT20 (ch1)



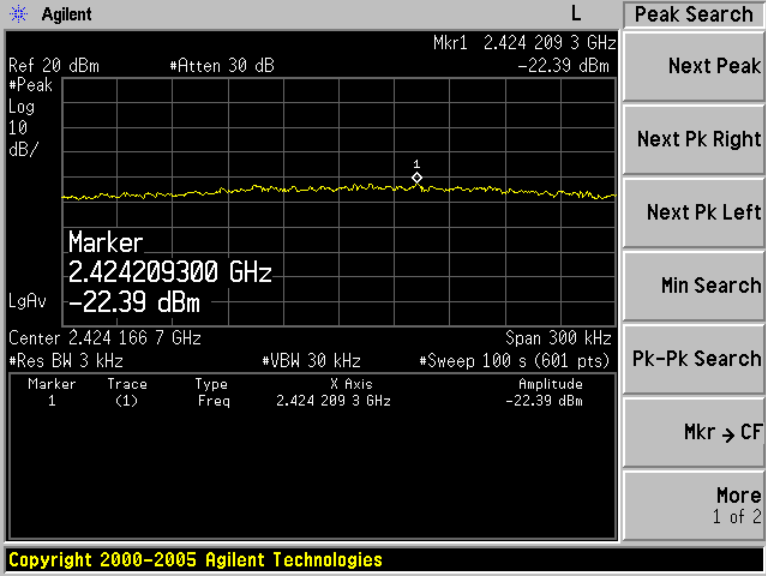
IEEE 802.11b (ch6)



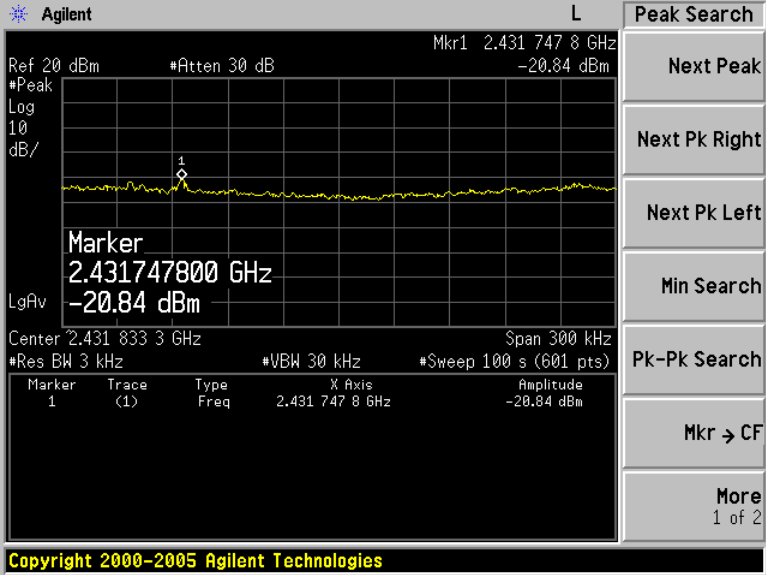
IEEE 802.11b (ch11)



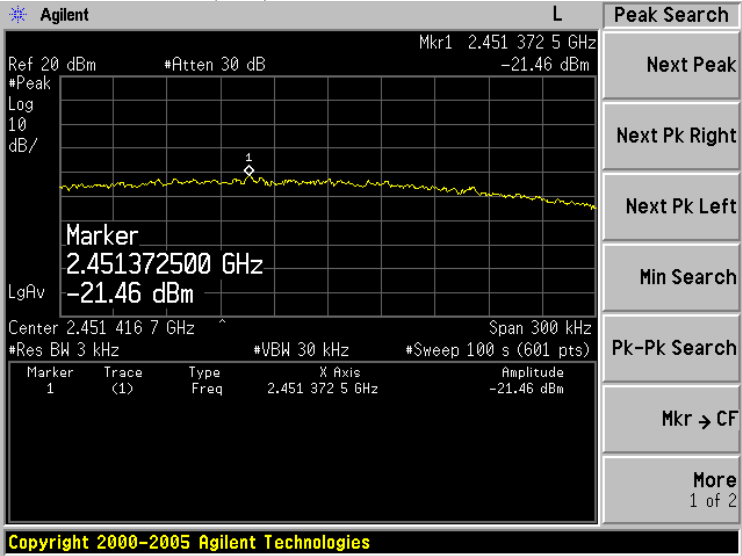
IEEE 802.11n HT40 (ch1)



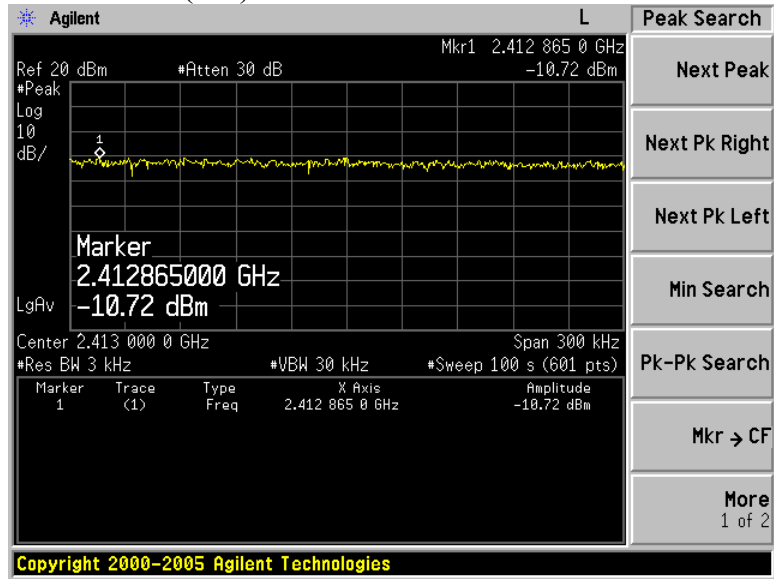
IEEE 802.11b (ch4)



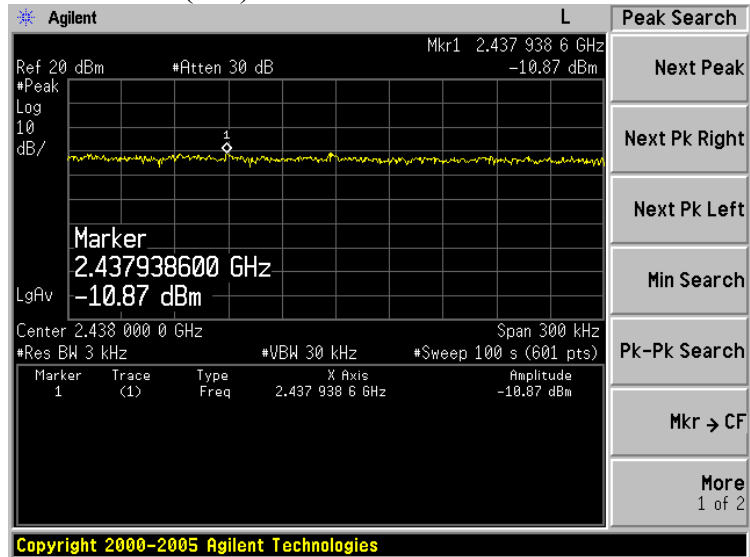
IEEE 802.11b (ch7)



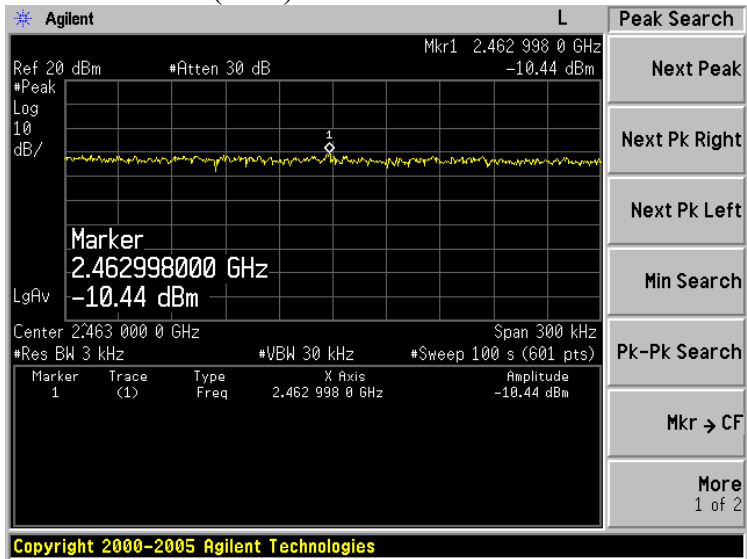
CHAIN2:
IEEE 802.11b (ch1)



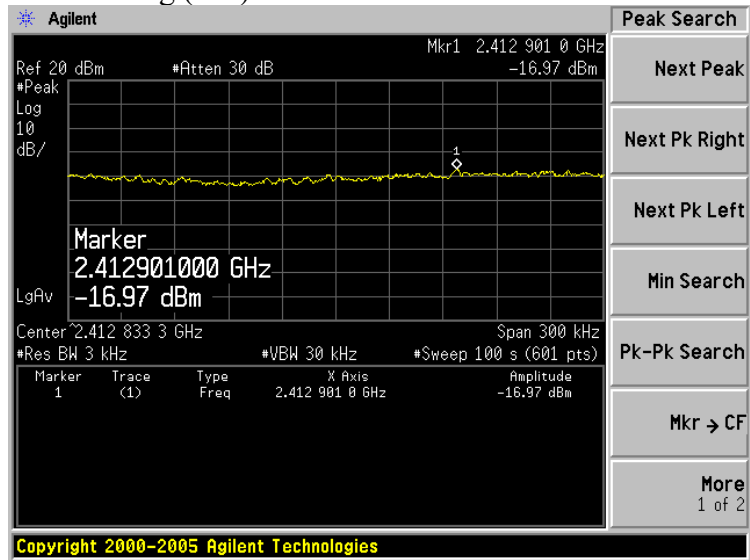
IEEE 802.11b (ch6)



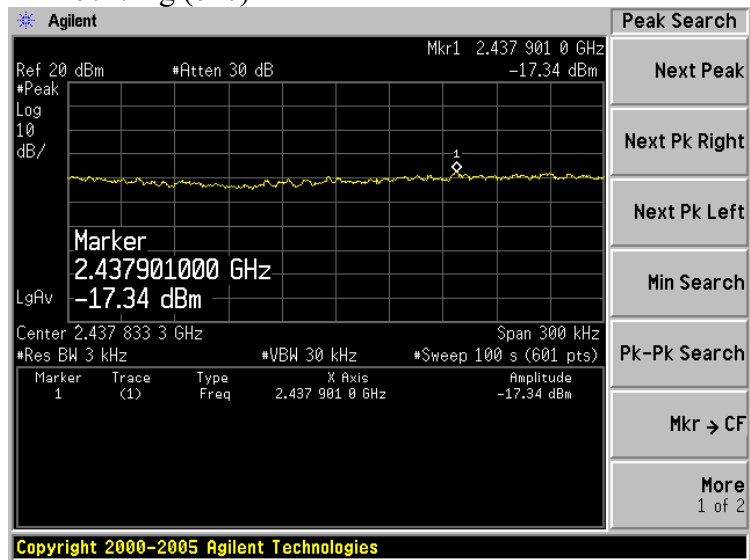
IEEE 802.11b (ch11)



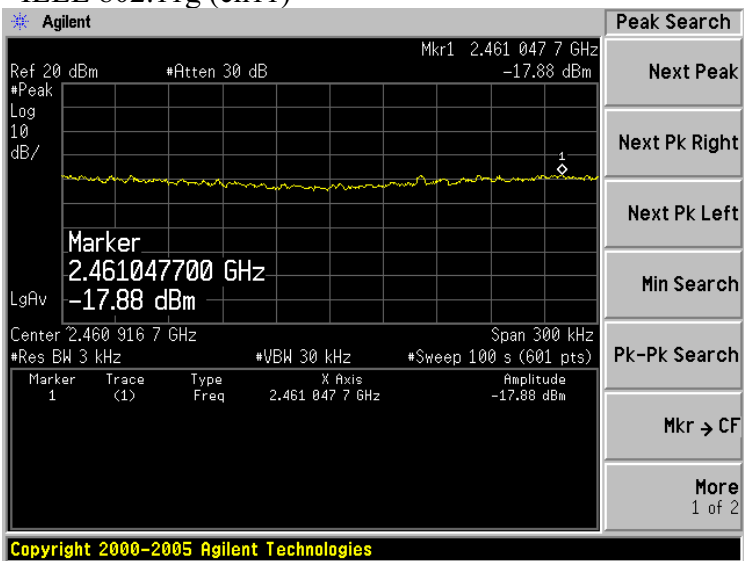
IEEE 802.11g (ch1)



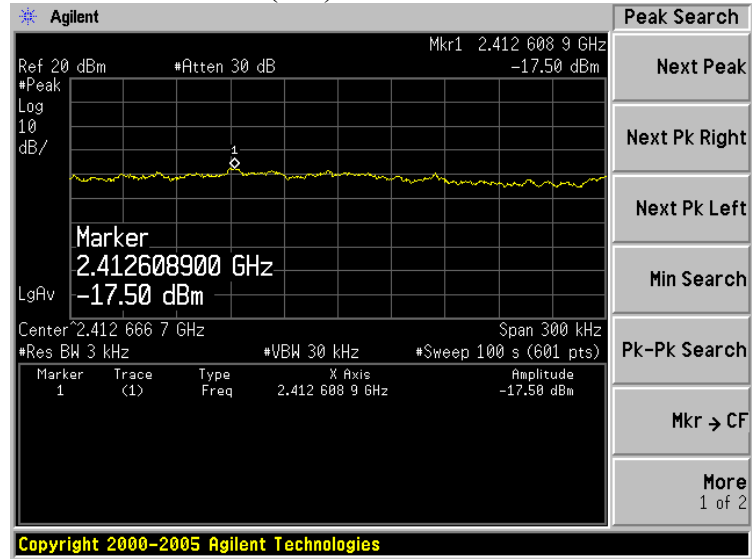
IEEE 802.11g (ch6)



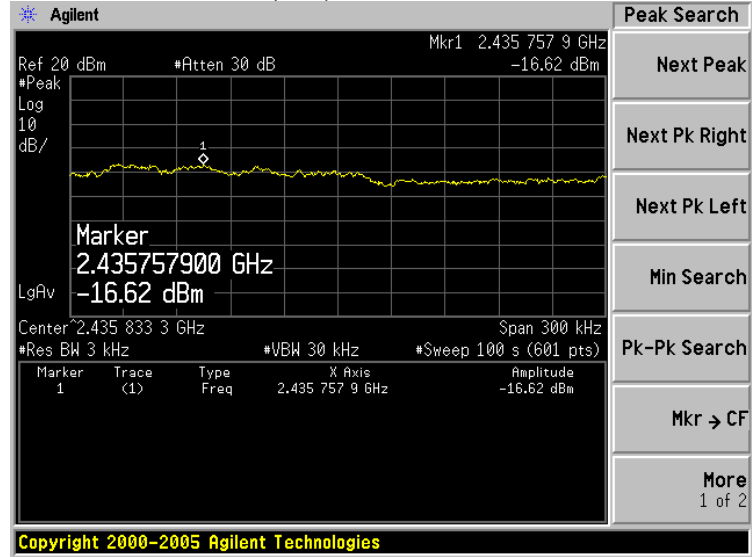
IEEE 802.11g (ch11)



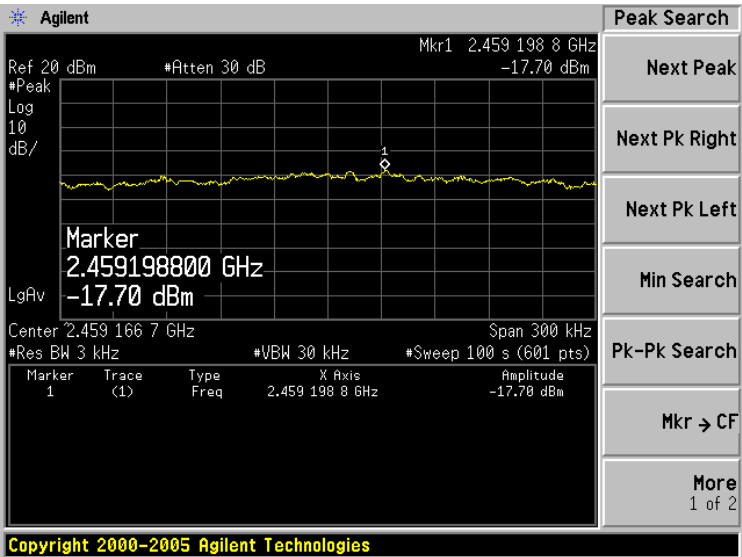
IEEE 802.11n HT20 (ch1)



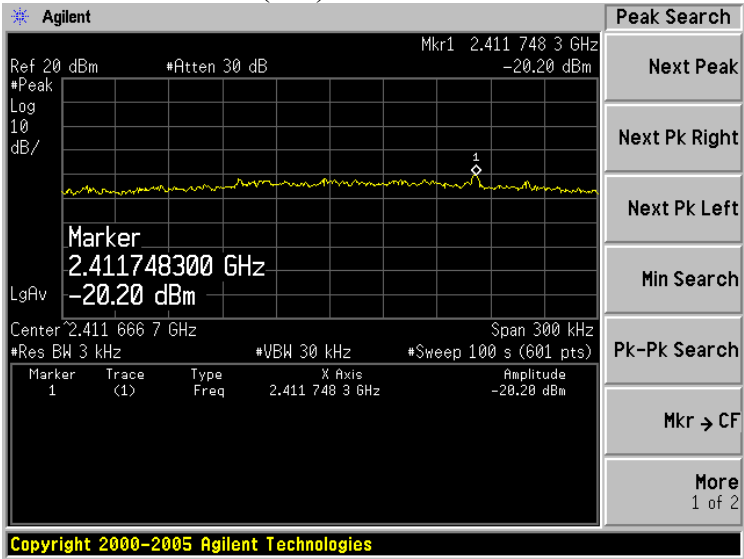
IEEE 802.11n HT20 (ch4)



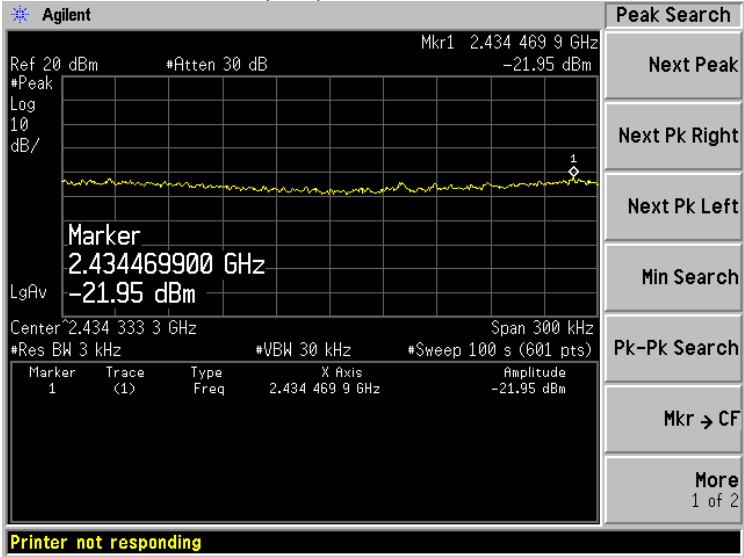
IEEE 802.11n HT20 (ch7)



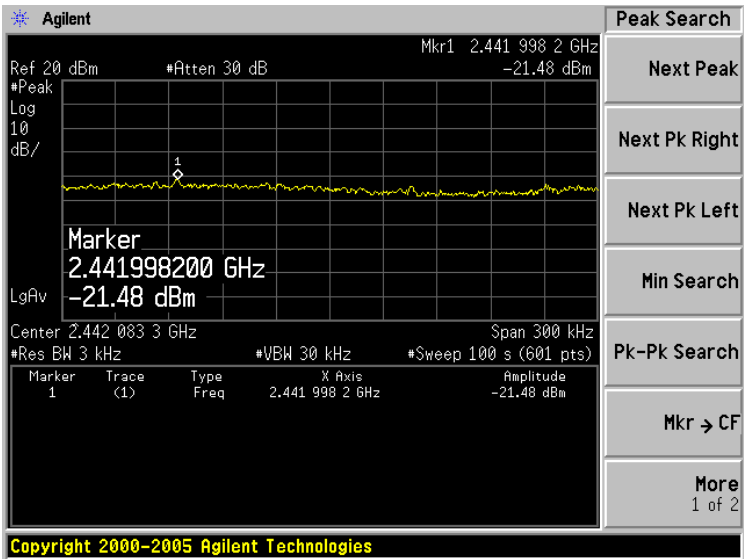
IEEE 802.11n HT40 (ch1)



IEEE 802.11n HT40 (ch4)



IEEE 802.11n HT40 (ch7)



9. MPE ESTIMATION

9.1.Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm ²)	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm ²)	Averaging time (minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F = Frequency in MHz

9.2.Estimation Result

Mode	CH	Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	MPE estimation result(mW/cm ²)
IEEE802.11b	CH1:2412MHz	20.75	118.85	3	0.047
	CH6:2437MHz	20.78	119.67	3	0.048
	CH11:2462MHz	20.89	122.74	3	0.049
IEEE802.11g	CH1:2412MHz	22.62	182.81	3	0.073
	CH6:2437MHz	22.64	183.65	3	0.073
	CH11:2462MHz	22.57	180.72	3	0.072
IEEE802.11n HT20	CH1:2412MHz	22.77	189.23	3	0.075
	CH6:2437MHz	22.81	190.99	3	0.076
	CH11:2462MHz	22.88	194.09	3	0.077
IEEE802.11n HT40	CH1:2422MHz	24.15	260.02	3	0.104
	CH4:2437MHz	24.36	272.9	3	0.109
	CH7:2452MHz	24.35	272.27	3	0.108

10. ANTENNA REQUIREMENT

10.1 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.

10.2 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 3dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]