

APPLICATION FOR CERTIFICATION
On Behalf of

TP-LINK Technologies Co., Ltd.

Wireless N Router

Model Number: TL-WR941ND; TL-WR941N

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~Apr.30, 2008
Date of Report : May.09, 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-WR941ND; TL-WR941N
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 12V From Adapter
 (D) TEST VOLTAGE : DC 12V From Adapter Input
 AC 120V/60Hz

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.

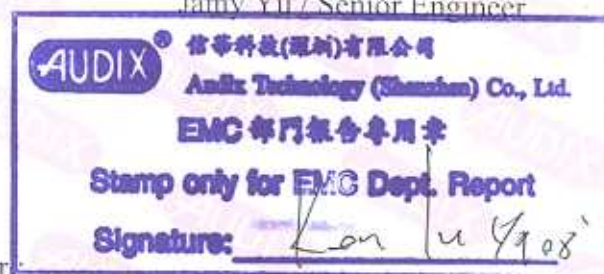
Date of Test : Mar.17~Apr.30, 2008

Prepared by :

YoYo Wang
 YoYo Wang / Assistant

Reviewer :

Jamy Yu
 Jamy Yu / Senior Engineer



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-WR941ND; TL-WR941N
		The differences between them are: TL-WR941N router with three fixed antennas and The TL-WR941ND router with three detachable antennas. According to technical characteristic, this difference only influence spurious emissions. So only the spurious emissions from 30MHz to 1GHz were tested with two models, and the other items were only tested with TL-WR941ND.
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	:	24.28dBm(Maximum PK measured)
Power	:	DC 12V from adapter AC 120V/60Hz
Antenna Assembly Gain	:	2dBi (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~Apr.30, 2008

Date of Receipt	:	Mar.15, 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, 1m

2.3.Date rate VS power

Mode	data rate (Mbps)	CH	Chain 1	Chain 2	Chain3	Result
			Level(dBm)	Level(dBm)	Level(dBm)	Total Power (dBm)
11b	1	CH6	15.65	15.26	15.89	20.38
	2	CH6	15.43	15.14	15.47	20.12
	5.5	CH6	15.24	15.02	15.59	20.06
	11	CH6	15.50	15.38	15.82	20.34
11g	54	CH6	17.42	17.24	17.45	22.14
	48	CH6	17.43	17.59	17.43	22.26
	36	CH6	17.25	17.42	17.52	22.17
	24	CH6	17.11	17.43	17.43	22.10
	18	CH6	17.14	17.56	17.48	22.17
	12	CH6	17.14	17.15	17.50	22.04
	9	CH6	17.15	17.82	17.60	22.30
	6	CH6	17.45	17.92	17.90	22.53
11n HT20	130	CH6	17.92	17.36	17.53	22.38
	117	CH6	17.49	17.29	17.35	22.15
	104	CH6	17.52	17.14	17.63	22.21
	78	CH6	17.53	17.53	17.44	22.27
	65	CH6	17.95	17.46	17.46	22.40
	58.5	CH6	17.63	17.89	17.62	22.49
	52	CH6	17.59	17.46	17.43	22.27
	39	CH6	18.14	17.82	17.45	22.58
	26	CH6	17.92	17.64	17.56	22.48
	19.5	CH6	17.53	17.59	17.42	22.29
	13	CH6	17.48	17.91	17.59	22.44
	6.5	CH6	18.02	17.92	17.68	22.65
11n HT40	13.5	CH4	19.76	18.88	19.21	24.07
	27	CH4	19.27	18.52	19.01	23.72
	40.5	CH4	19.56	18.65	19.10	23.89
	54	CH4	19.34	18.46	19.15	23.77
	81	CH4	19.75	18.83	18.69	23.89
	108	CH4	19.36	18.45	19.11	23.76
	121.5	CH4	19.63	18.44	18.95	23.81
	135	CH4	19.59	18.63	19.10	23.90
	162	CH4	19.48	18.62	19.02	23.83
	216	CH4	19.57	18.47	19.06	23.83
	243	CH4	19.78	18.41	19.12	23.91
	270	CH4	19.63	18.35	19.07	23.82

total power=Chain1 Level +Chain2 Level+Chain3 Level(Linear)
When IEEE 802.11b's data rate was 1Mbps ; IEEE 802.11g's data rate was 6Mbps,IEEE 802.11n HT20's data rate was 6.5Mbps;IEEE802.11n HT40's data rate was 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
Dec. 20, 2007

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

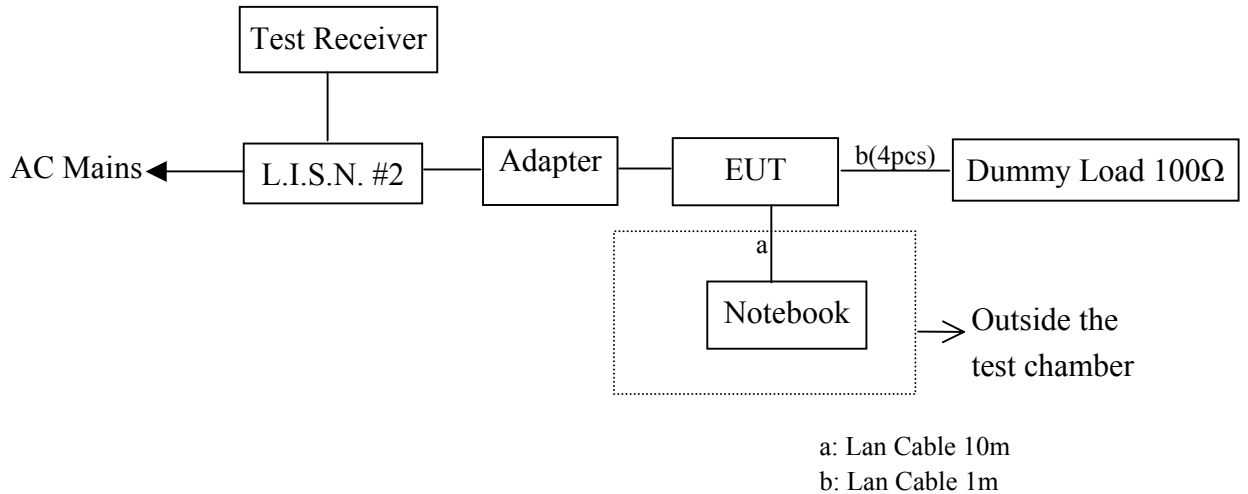
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 11, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 11, 07	1 Year
3.	L.I.S.N.#3	EMCO	3825/2	9006-1660	May 11, 07	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 11, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Aug.11, 07	1/2 Year
6.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May 11, 07	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M55367	Aug.11, 07	1/2 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Aug.11, 07	1/2 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless N Router)

3.3.Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
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-WR941ND
 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 100 Ω 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. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). 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-WR941ND

Test Date: Mar.28, 2008 Temperature: 23°C Humidity: 54%

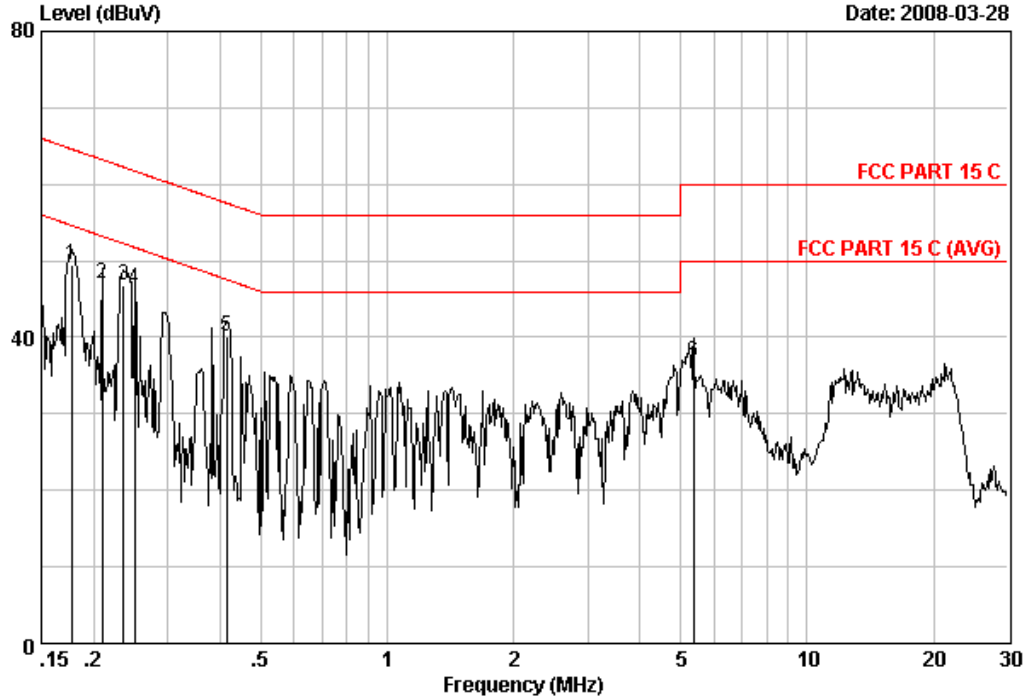
The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		VA	VB
1.	TX Mode	# 3	# 4



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: 3 File: D:\emc 002\DATA\2008 Report\TTP-LINK\ACS8Q347.EMI (6)



Site no :AUDIX No.1 Conduction Data no :3
 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-WR941ND
 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	39.05	49.38	64.64	15.26	QP
2	0.21	0.15	10.15	36.82	47.12	63.23	16.11	QP
3	0.24	0.14	10.15	36.42	46.71	62.26	15.55	QP
4	0.25	0.13	10.15	36.10	46.38	61.73	15.35	QP
5	0.41	0.08	10.14	29.80	40.02	57.55	17.53	QP
6	5.36	0.10	10.20	26.57	36.87	60.00	23.13	QP

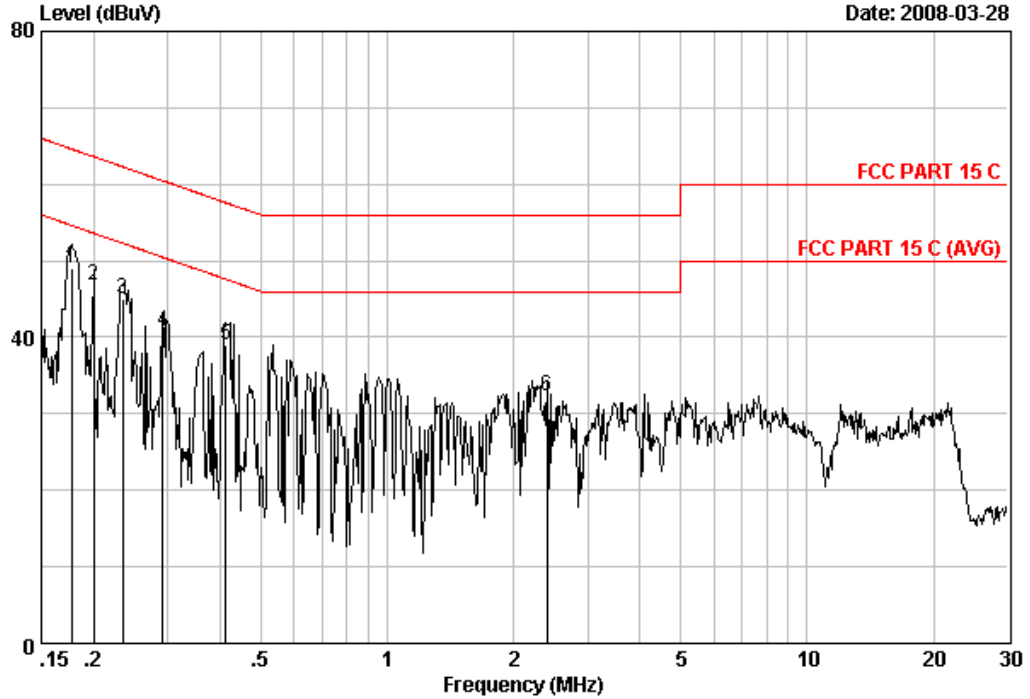
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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: 4 File: D:\emc 002\DATA\2008 Report\T\TP-LINK\ACS8Q347.EMI (6)

Date: 2008-03-28



Site no :AUDIX No.1 Conduction Data no :4
 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-WR941ND
 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	0.20	10.15	38.73	49.08	64.64	15.56	QP
2	0.20	0.15	10.15	36.49	46.79	63.62	16.83	QP
3	0.23	0.14	10.15	34.70	44.99	62.30	17.31	QP
4	0.29	0.12	10.15	30.46	40.73	60.46	19.73	QP
5	0.41	0.08	10.14	28.78	39.00	57.59	18.59	QP
6	2.40	0.06	10.16	22.05	32.27	56.00	23.73	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

Frequency rang: 30~1000MHz

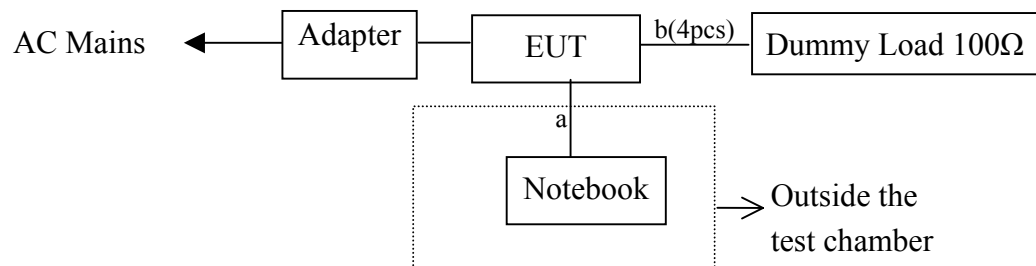
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.20.07	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 11, 07	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	Dec.19, 07	1 Year
4.	Amplifier	HP	8447D	2944A04738	Jan.09, 08	1/2 Year
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

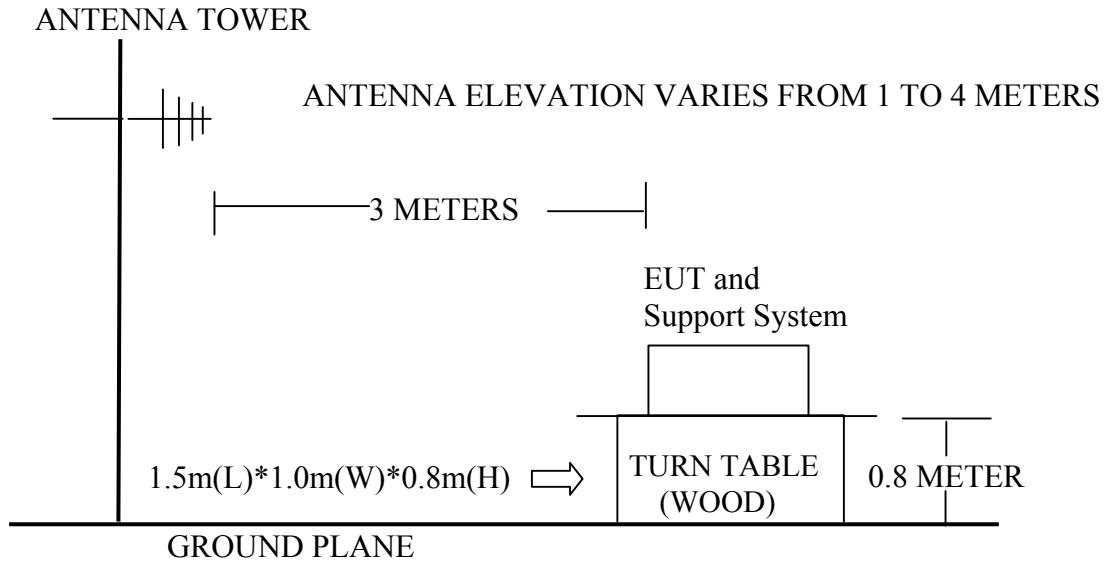


a: Lan Cable 10m

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	
		μV/m	dB(μV)/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 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
 - (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-WR941ND
 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 soft ware, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a 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.

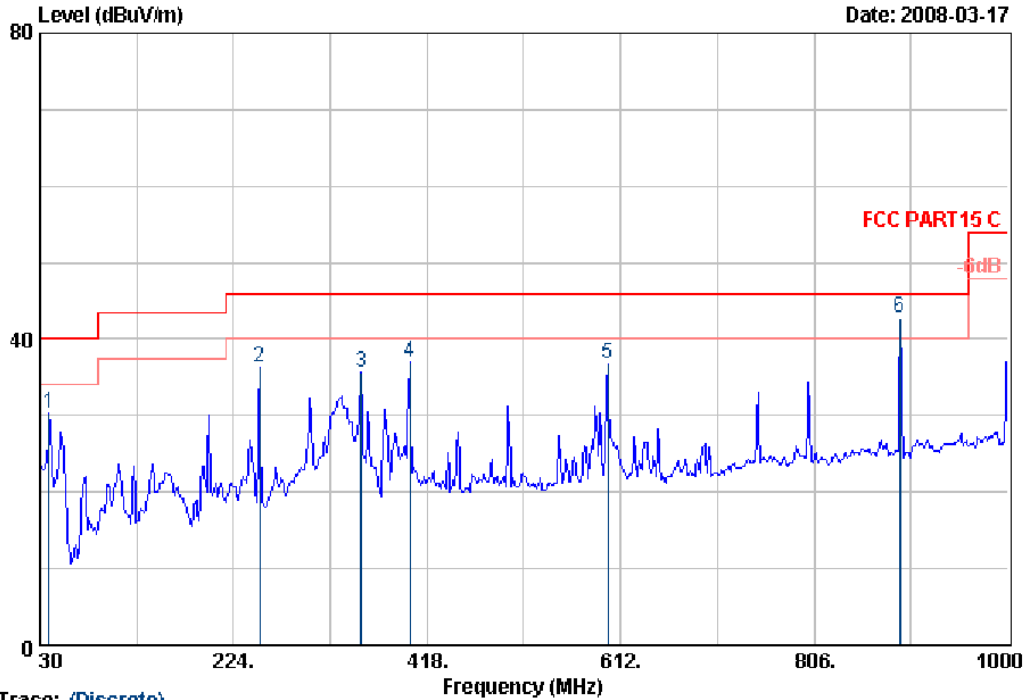
All the emissions 1GHz~4GHz and 18GHz~25GHz are peak measured and comply with average limit.

Frequency: 30MHz~1GHz



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

Data: 2 File: D:\2008 Report Data\NTP-LINK\ACS8Q347.EMI (4)



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 2
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS10 Engineer : Mario
 EUT : Wireless N Router
 Power Rating : DC 12V From Adapter AC 120V/60Hz
 Test Mode : TX Mode
 TL-WR941N

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)			
1	38.73	14.82	0.73	14.74	30.29	40.00	9.71	QP
2	250.19	12.70	1.51	22.22	36.43	46.00	9.57	QP
3	352.04	15.28	1.79	18.62	35.69	46.00	10.31	QP
4	400.54	16.53	1.83	18.52	36.88	46.00	9.12	QP
5	599.39	19.78	2.07	14.81	36.66	46.00	9.34	QP
6	891.83	22.88	2.48	17.40	42.76	46.00	3.24	QP

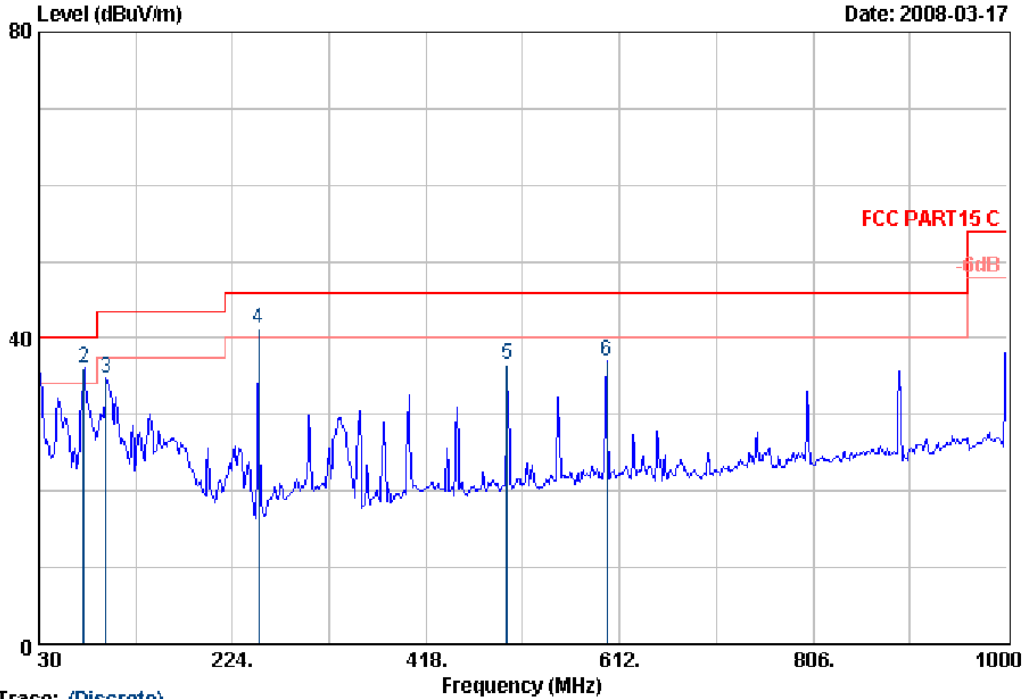
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495
 Fax:+86-755-26632877
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Data: 1 File: D:\2008 Report Data\TTP-LINK\ACS8Q347.EMI (4)

Date: 2008-03-17



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 1
 Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS10 Engineer : Mario
 EUT : Wireless N Router
 Power Rating : DC 12V From Adapter AC 120V/60Hz
 Test Mode : TX Mode
 TL-WR941N

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.63	19.22	0.69	16.50	36.41	40.00	3.59	QP
2	74.58	7.20	0.93	27.90	36.03	40.00	3.97	QP
3	96.93	9.98	1.08	23.76	34.82	43.50	8.68	QP
4	250.03	12.70	1.51	27.00	41.21	46.00	4.79	QP
5	499.48	18.10	2.02	16.47	36.59	46.00	9.41	QP
6	599.39	19.78	2.07	15.17	37.02	46.00	8.98	QP

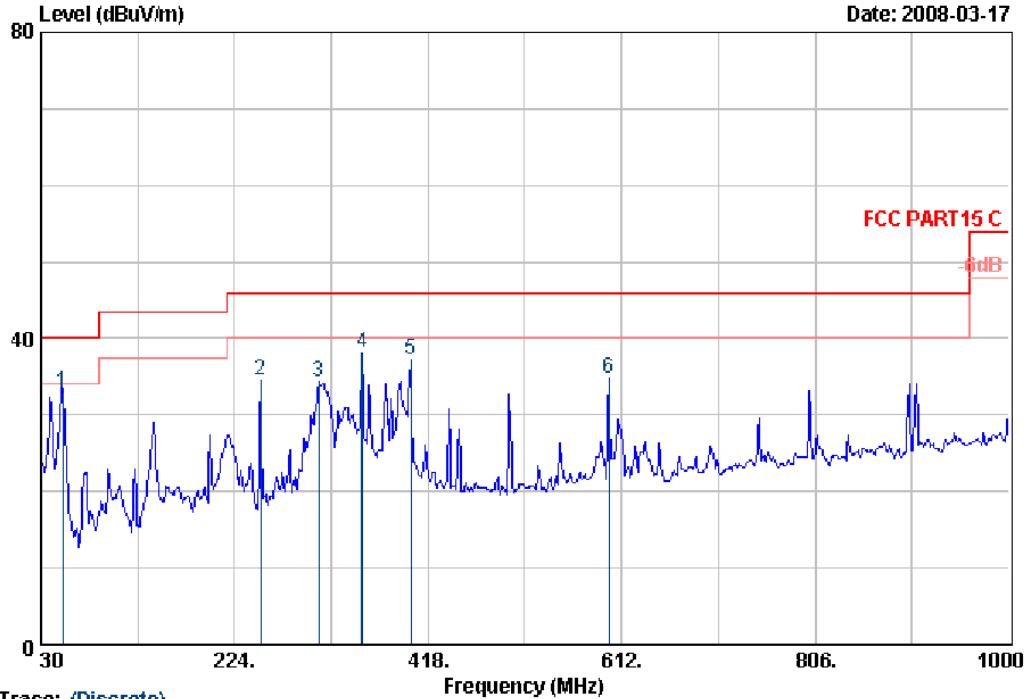
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
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\WTP-LINK\ACS8Q347.EMI (4)

Date: 2008-03-17



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 3
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS10 Engineer : Mario
 EUT : Wireless N Router
 Power Rating : DC 12V From Adapter AC 120V/60Hz
 Test Mode : TX Mode
 TL-WR941ND

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	51.79	8.42	0.85	23.80	33.07	40.00	6.93	QP
2	250.19	12.70	1.51	20.38	34.59	46.00	11.41	QP
3	308.39	13.90	1.57	18.82	34.29	46.00	11.71	QP
4	352.04	15.28	1.79	21.12	38.19	46.00	7.81	QP
5	400.54	16.53	1.83	18.88	37.24	46.00	8.76	QP
6	599.39	19.78	2.07	12.96	34.81	46.00	11.19	QP

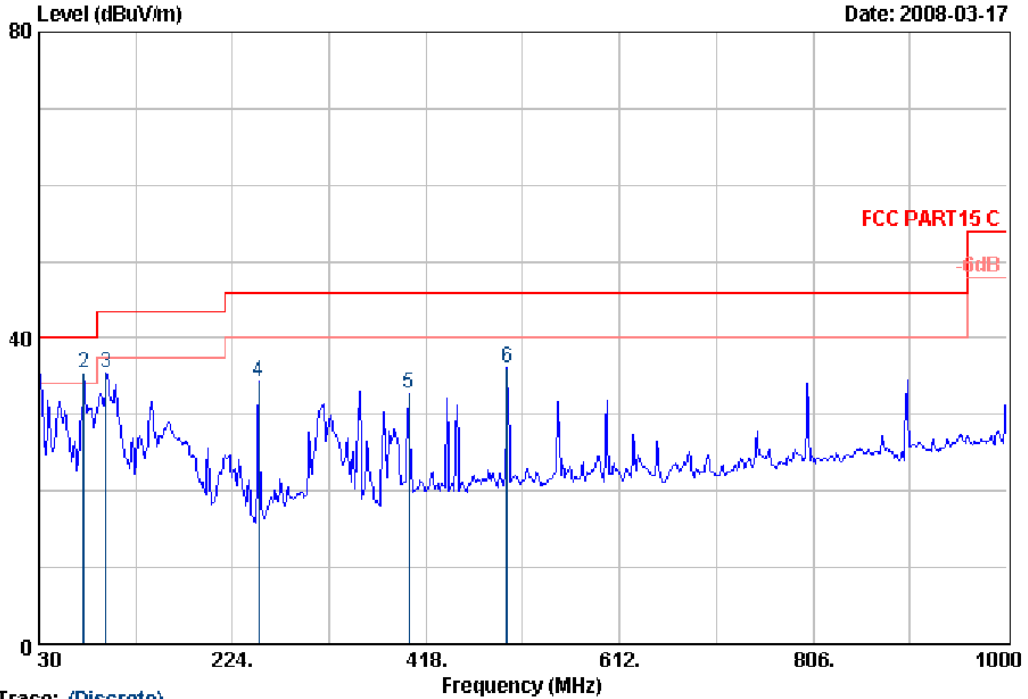
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 4 File: D:\2008 Report Data\TTP-LINK\ACS8Q347.EMI (4)

Date: 2008-03-17



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 4
 Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS10 Engineer : Mario
 EUT : Wireless N Router
 Power Rating : DC 12V From Adapter AC 120V/60Hz
 Test Mode : TX Mode
 TL-WR941ND

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.63	19.22	0.69	17.00	36.91	40.00	3.09	QP
2	74.55	7.20	0.93	27.40	35.53	40.00	4.47	QP
3	96.93	9.98	1.08	24.39	35.45	43.50	8.05	QP
4	250.19	12.70	1.51	20.12	34.33	46.00	11.67	QP
5	400.54	16.53	1.83	14.30	32.66	46.00	13.34	QP
6	499.48	18.10	2.02	15.97	36.09	46.00	9.91	QP

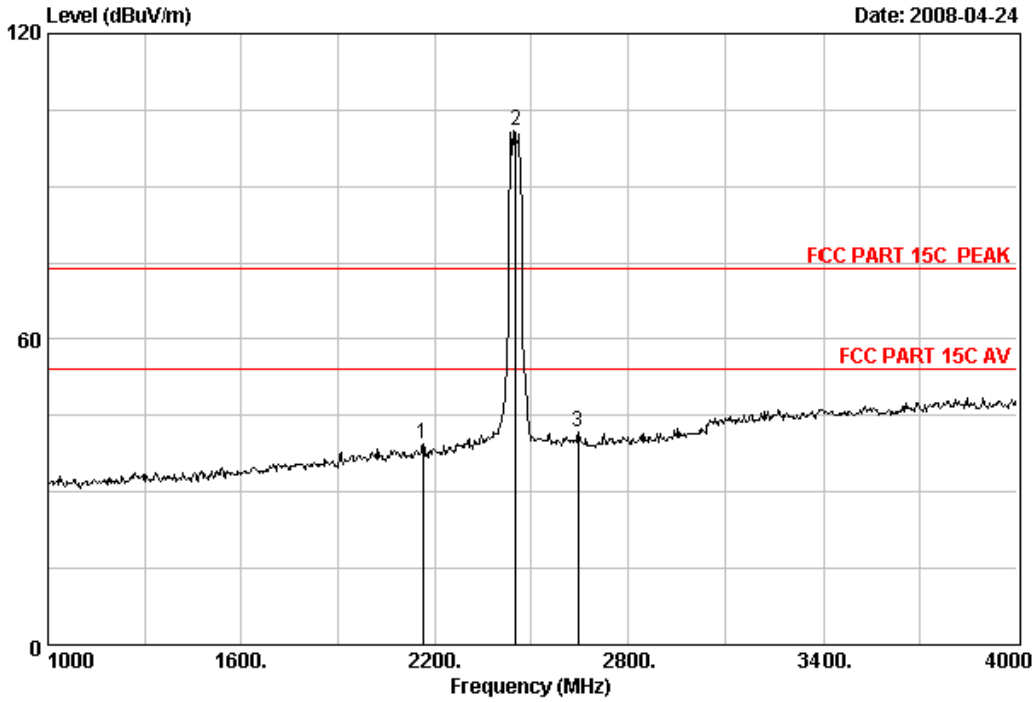
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~4GHz



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: 120 File: D:\2008 report data\TP-LINK\ACS80347.EMI (120)



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 : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH7:2452MHz 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	2164.00	28.42	6.42	35.25	39.94	39.53	74.00	34.47	Peak
2	2452.00	29.11	6.84	35.17	100.23	101.01	74.00	-27.01	Peak
3	2644.00	29.76	7.12	35.10	40.14	41.92	74.00	32.08	Peak

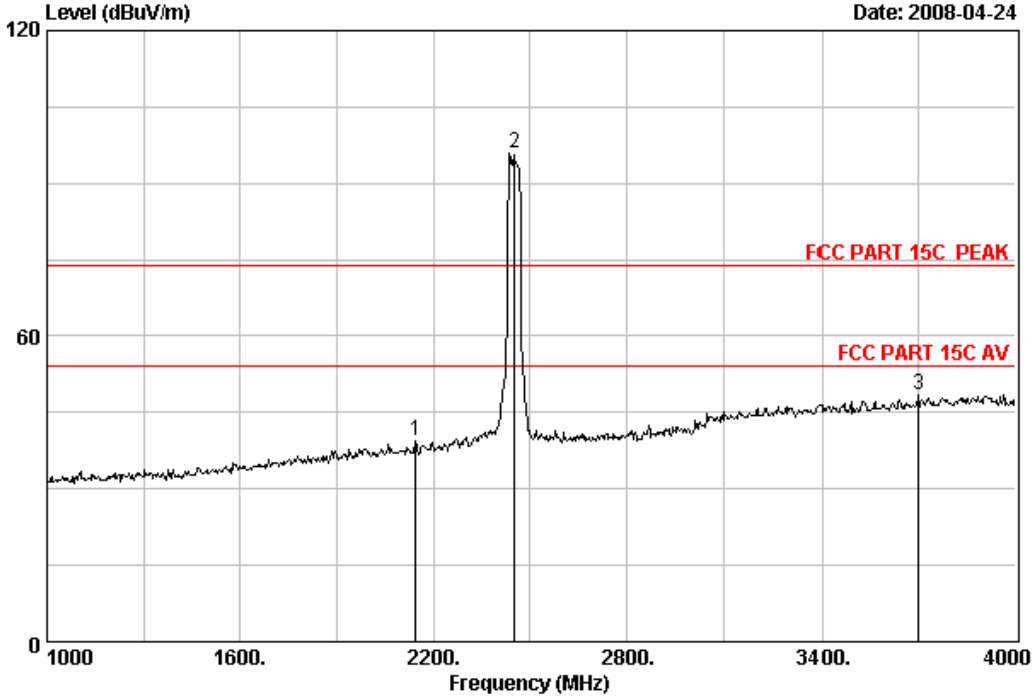
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 119 File: D:\2008 report data\T\TP-LINK\ACS8Q347.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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH7:2452MHz Tx

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	28.38	6.38	35.26	40.00	39.50	74.00	34.50	Peak
2	29.11	6.84	35.17	95.18	95.96	74.00	-21.96	Peak
3	32.96	9.20	34.79	41.14	48.51	74.00	25.49	Peak

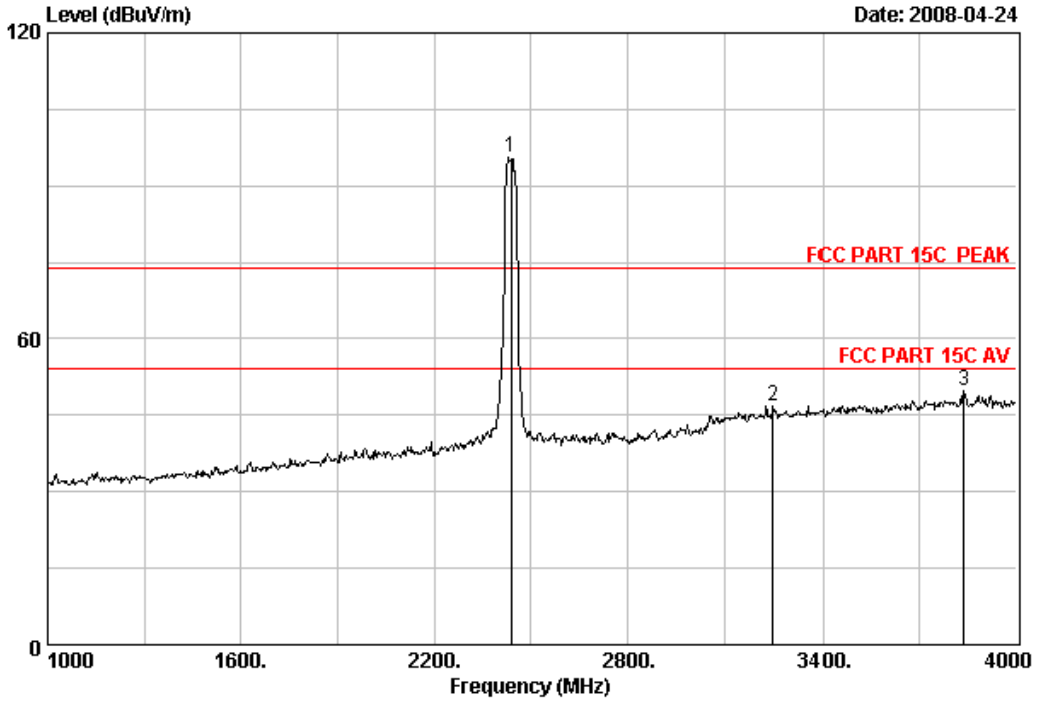
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 118 File: D:\2008 report data\T\TP-LINK\ACS8Q347.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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH4:2437MHz Tx

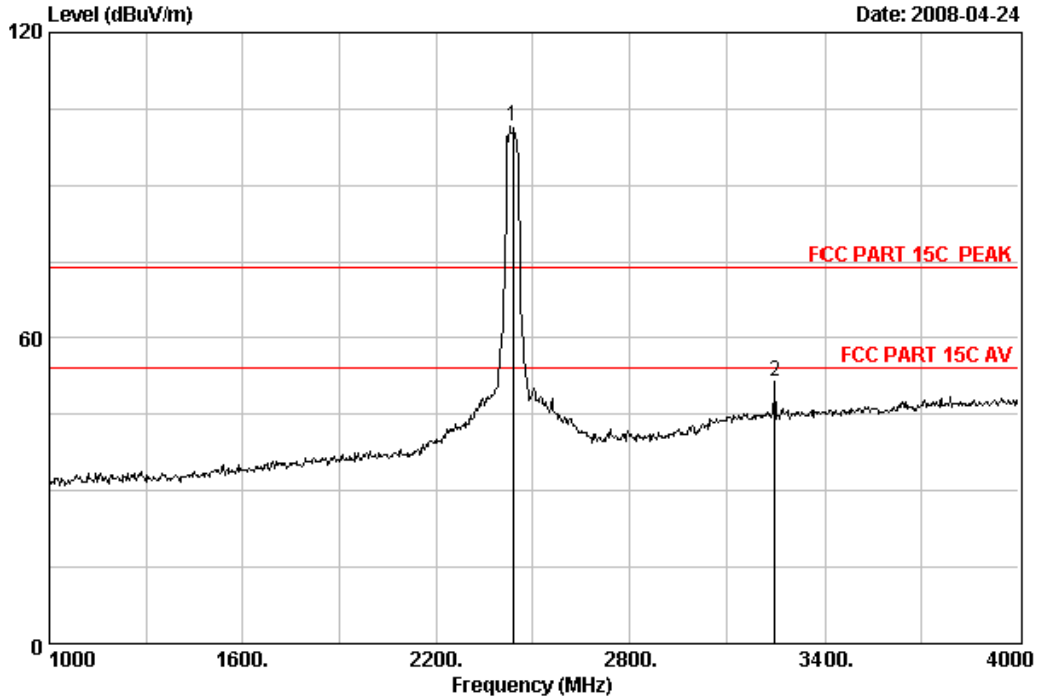
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	29.11	6.80	35.17	94.70	95.44	74.00	-21.44	Peak
2	3250.00	31.66	8.23	34.92	41.96	46.93	74.00	27.07	Peak
3	3838.00	33.36	9.48	34.74	41.68	49.78	74.00	24.22	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.



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: 117 File: D:\2008 report data\TTP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH4:2437MHz Tx

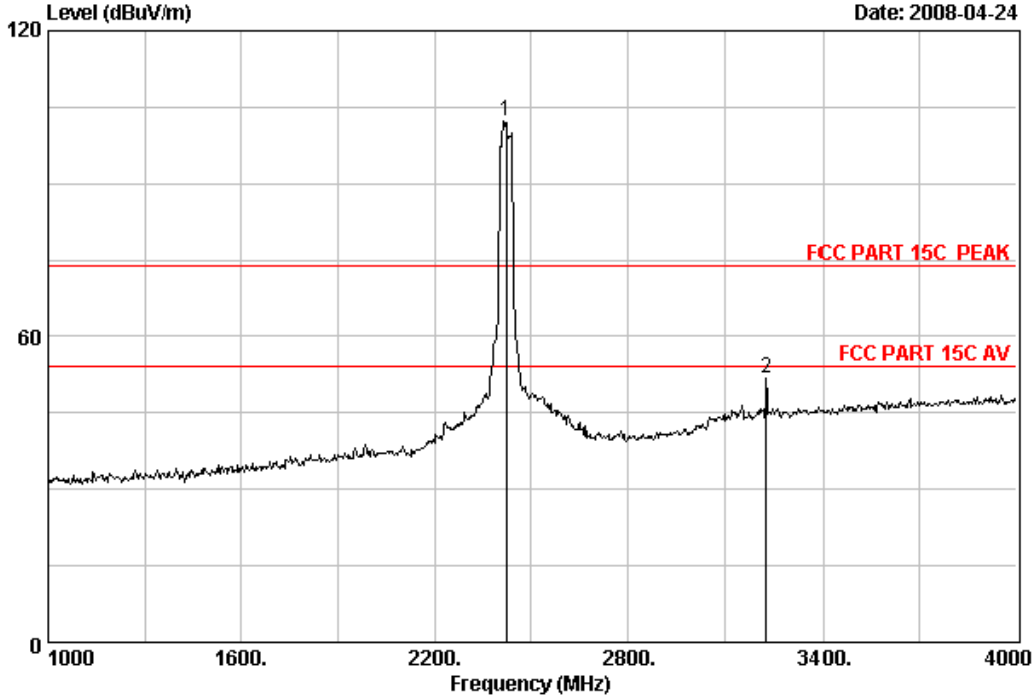
	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	29.11	6.80	35.17	100.80	101.54	74.00	-27.54	Peak
2	31.66	8.23	34.92	46.67	51.64	74.00	22.36	Peak

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: 116 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH1:2422MHz Tx

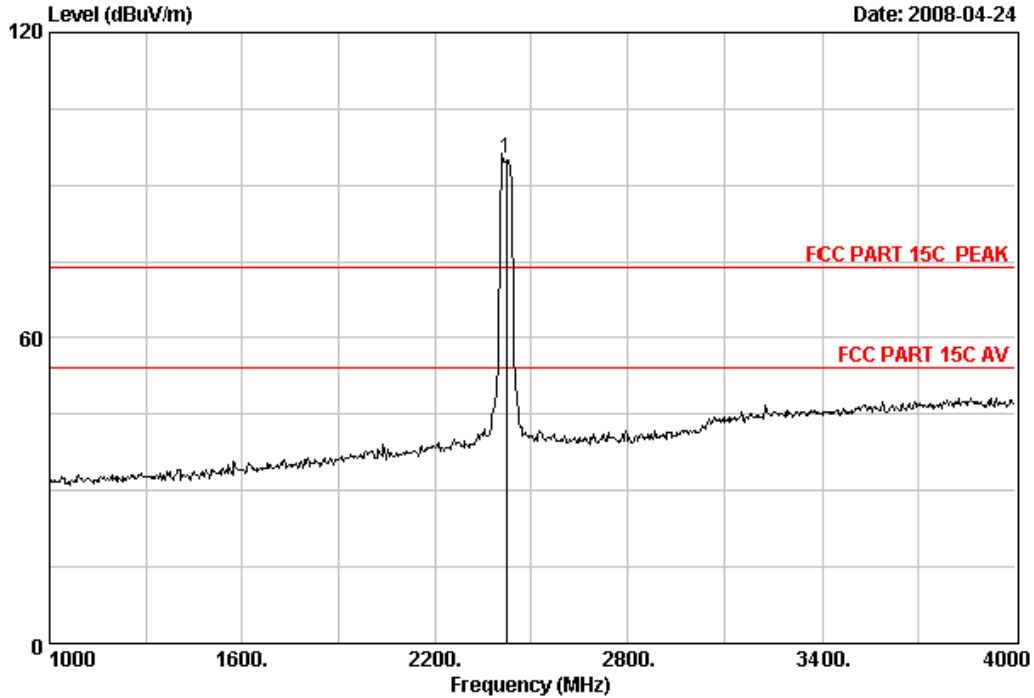
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2422.00	29.07	6.77	35.17	101.46	102.13	74.00	-28.13	Peak
2	3229.00	31.61	8.18	34.93	46.80	51.66	74.00	22.34	Peak

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: 115 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 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	29.07	6.77	35.17	94.50	95.17	74.00	-21.17	Peak

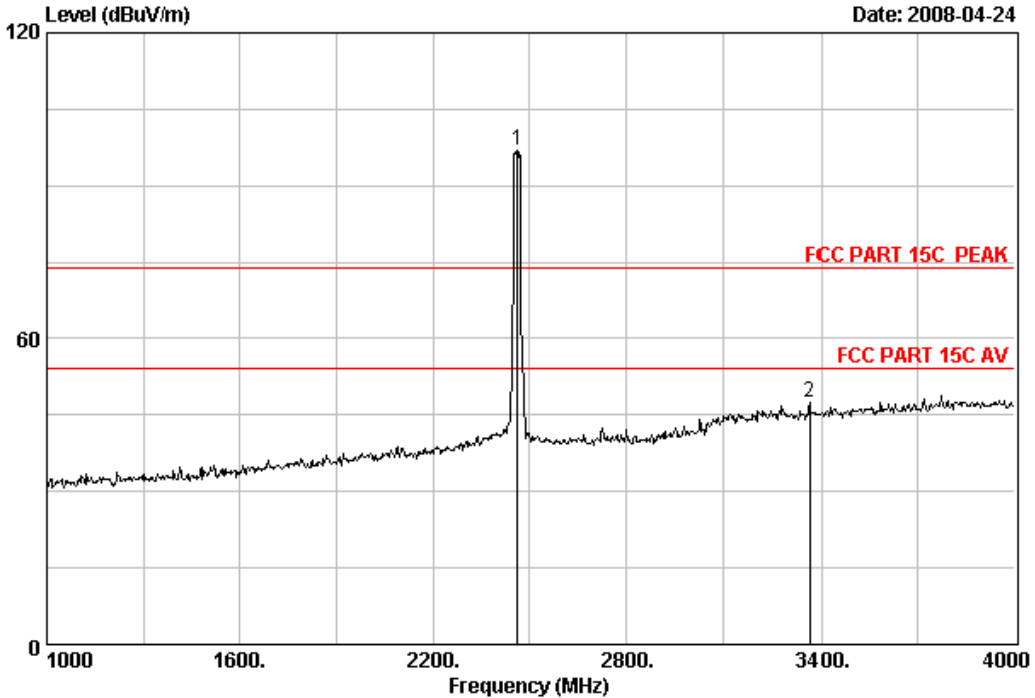
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 114 File: D:\2008 report data\T\TP-LINK\ACS8Q347.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 : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

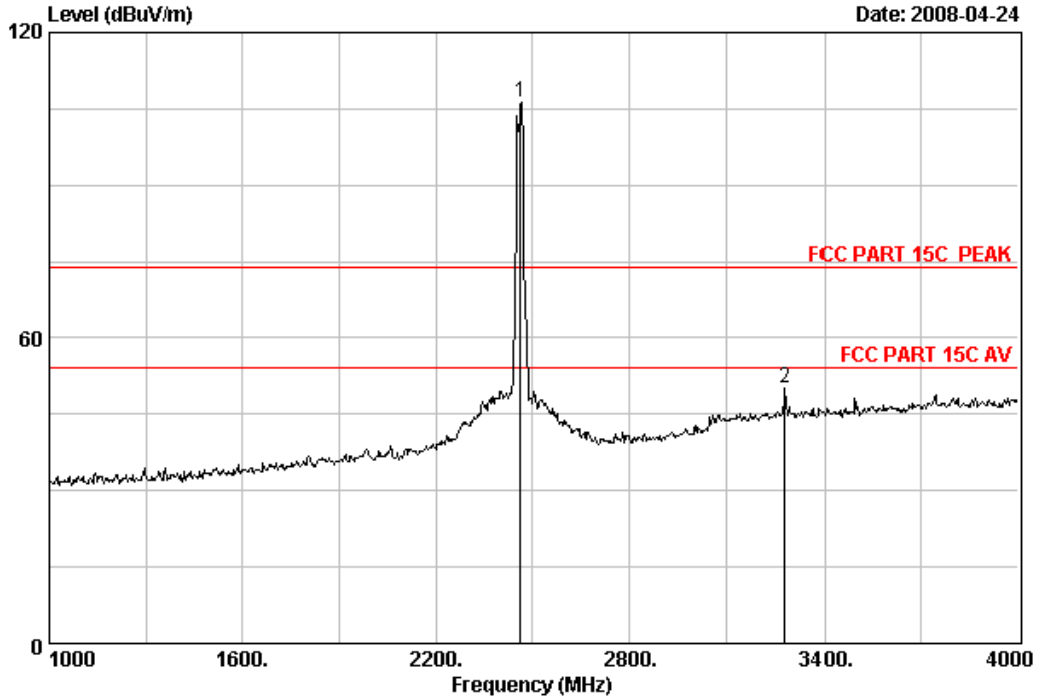
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	29.15	6.84	35.17	96.18	97.00	74.00	-23.00	Peak	
2	31.99	8.45	34.89	41.88	47.43	74.00	26.57	Peak	

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: 113 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH11:2462MHz Tx

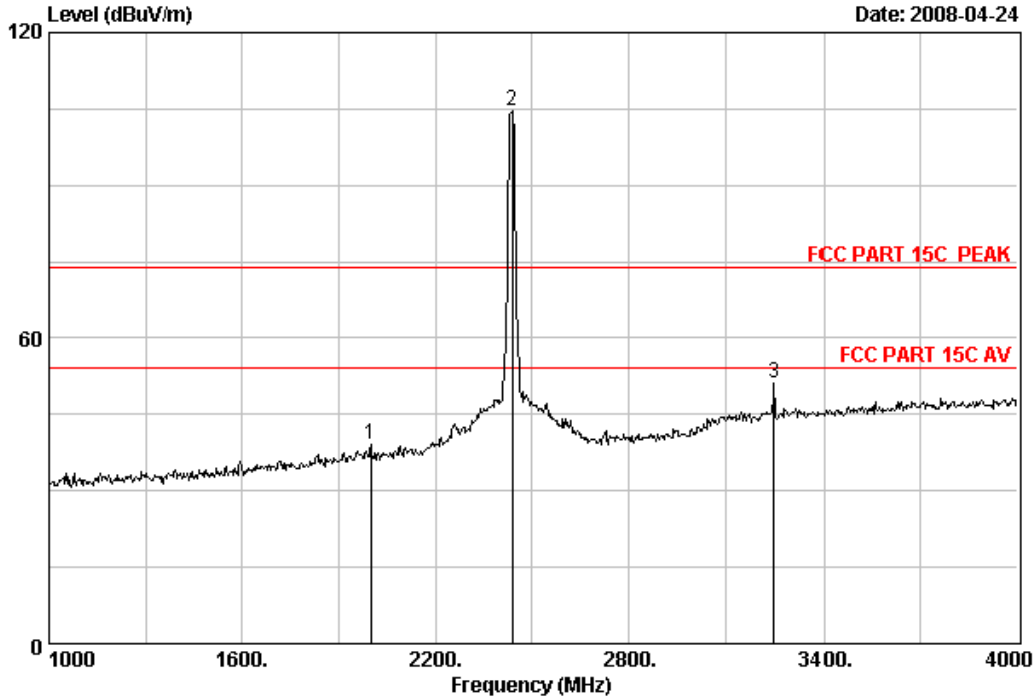
	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	2462.00	29.15	6.84	35.17	105.46	106.28	74.00	-32.28	Peak
2	3283.00	31.76	8.28	34.92	45.11	50.23	74.00	23.77	Peak

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
 Postcode:518057

Data: 112 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH6:2437MHz 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	28.06	6.21	35.30	40.15	39.12	74.00	34.88	Peak
2	29.11	6.80	35.17	103.82	104.56	74.00	-30.56	Peak
3	31.66	8.23	34.92	46.19	51.16	74.00	22.84	Peak

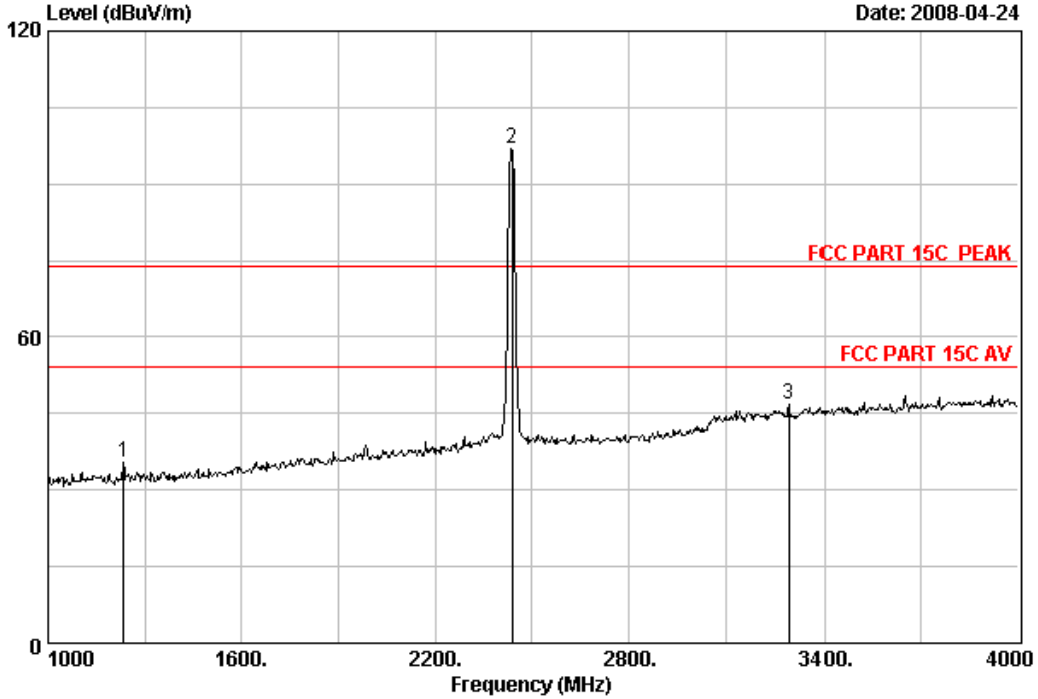
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 111 File: D:\2008 report data\T\TP-LINK\ACS8Q347.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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH6:2437MHz Tx

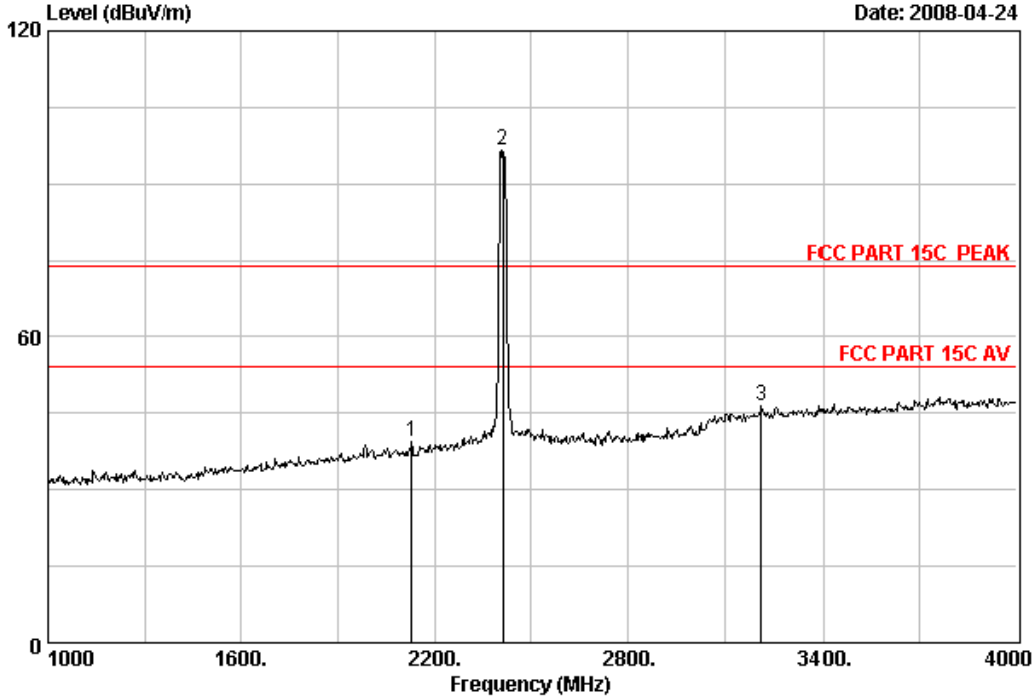
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission			Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	24.87	4.81	36.00	41.86	35.54	74.00	38.46	Peak
2	29.11	6.80	35.17	96.24	96.98	74.00	-22.98	Peak
3	31.80	8.33	34.91	41.43	46.65	74.00	27.35	Peak

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: 110 File: D:\2008 report data\TP-LINK\ACS8Q347.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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

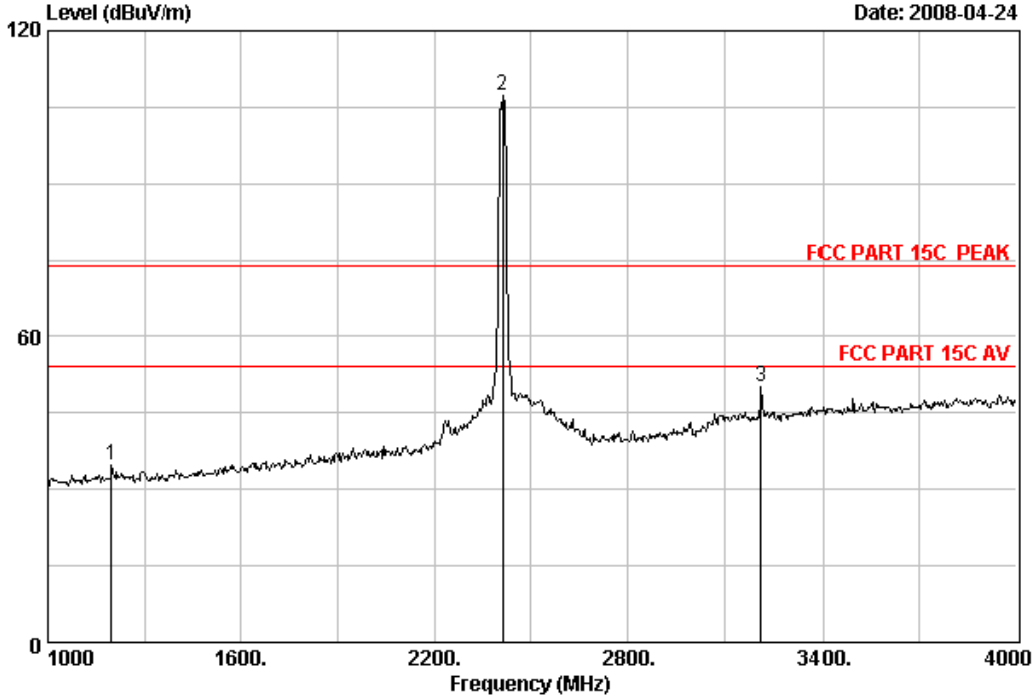
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2128.00	28.34	6.38	35.26	39.83	39.29	74.00	34.71	Peak
2	2412.00	29.03	6.73	35.18	96.08	96.66	74.00	-22.66	Peak
3	3214.00	31.57	8.13	34.93	41.86	46.63	74.00	27.37	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: 109 File: D:\2008 report data\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH1:2412MHz Tx

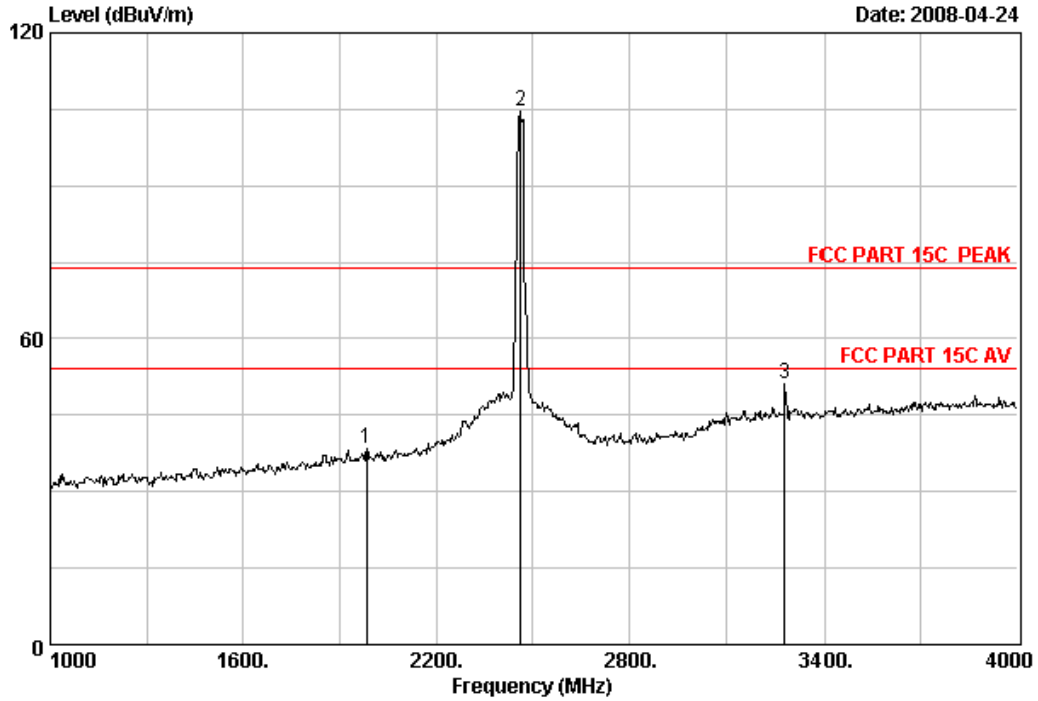
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission			Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	24.80	4.78	36.02	41.22	34.78	74.00	39.22	Peak
2	29.03	6.73	35.18	106.59	107.17	74.00	-33.17	Peak
3	31.57	8.13	34.93	45.38	50.15	74.00	23.85	Peak

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.



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: 108 File: D:\2008 report data\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz Tx

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark	
1	1984.00	27.97	6.16	35.32	39.62	38.43	74.00	35.57	Peak
2	2462.00	29.15	6.84	35.17	103.64	104.46	74.00	-30.46	Peak
3	3283.00	31.76	8.28	34.92	46.04	51.16	74.00	22.84	Peak

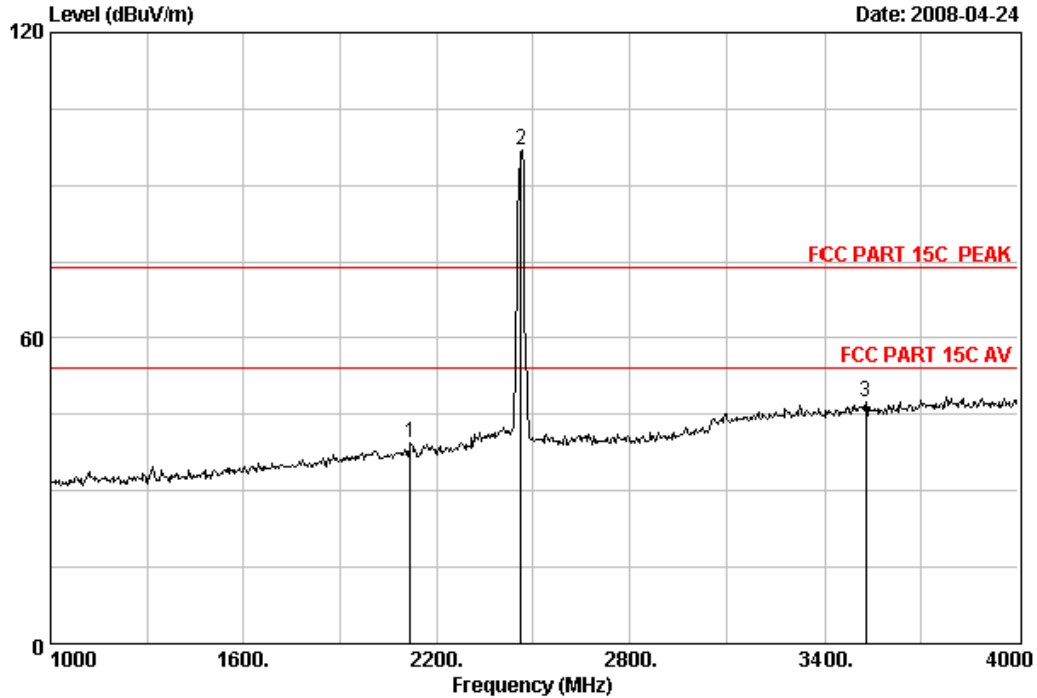
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 107 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (120)

Date: 2008-04-24



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz Tx

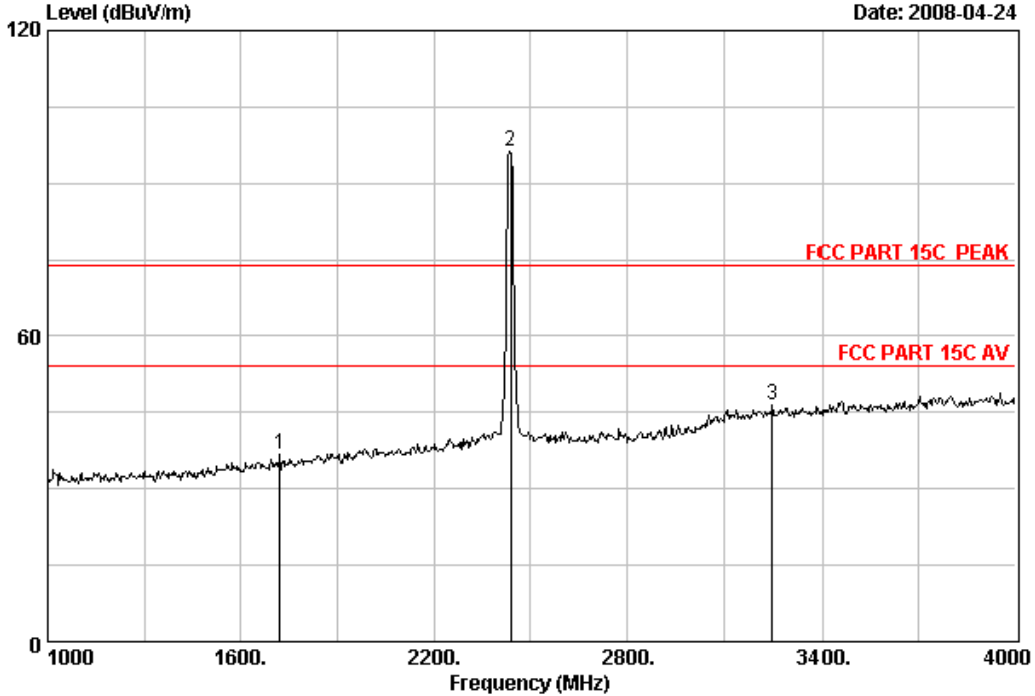
No.	Freq. (MHz)	Ant. Cable Amp			Emission				
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2119.00	28.34	6.35	35.26	40.06	39.49	74.00	34.51	Peak
2	2462.00	29.15	6.84	35.17	96.17	96.99	74.00	-22.99	Peak
3	3529.00	32.47	8.89	34.84	40.86	47.38	74.00	26.62	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: 106 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 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				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	1720.00	26.54	5.67	35.55	40.08	36.74	74.00	37.26	Peak
2	2437.00	29.11	6.80	35.17	95.46	96.20	74.00	-22.20	Peak
3	3250.00	31.66	8.23	34.92	41.59	46.56	74.00	27.44	Peak

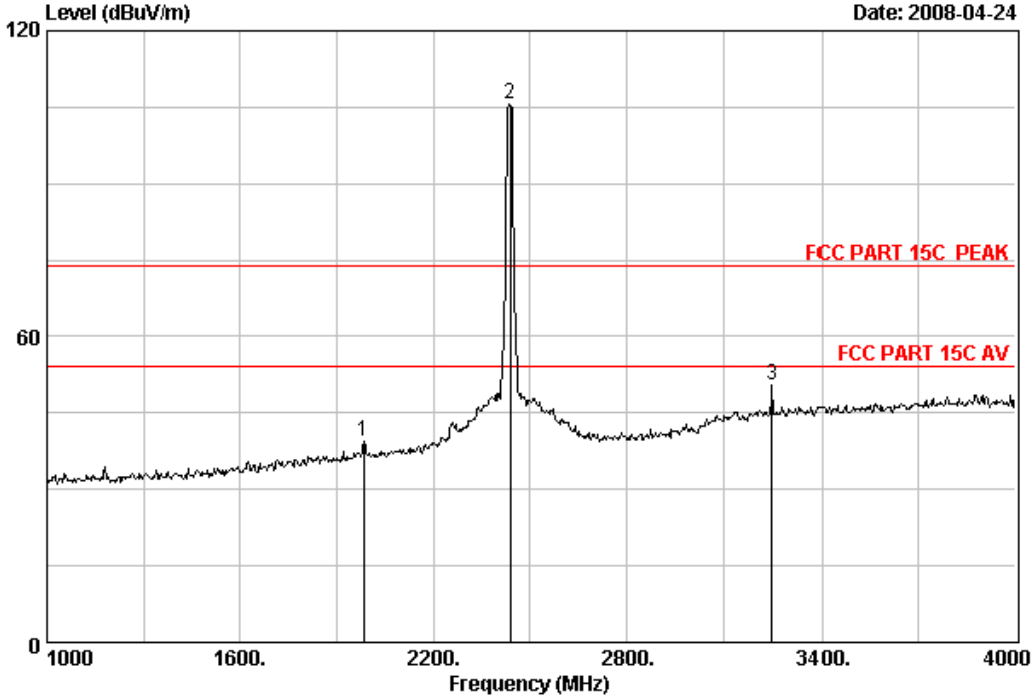
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 105 File: D:\2008 report data\TP-LINK\ACS8Q347.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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH6:2437MHz Tx

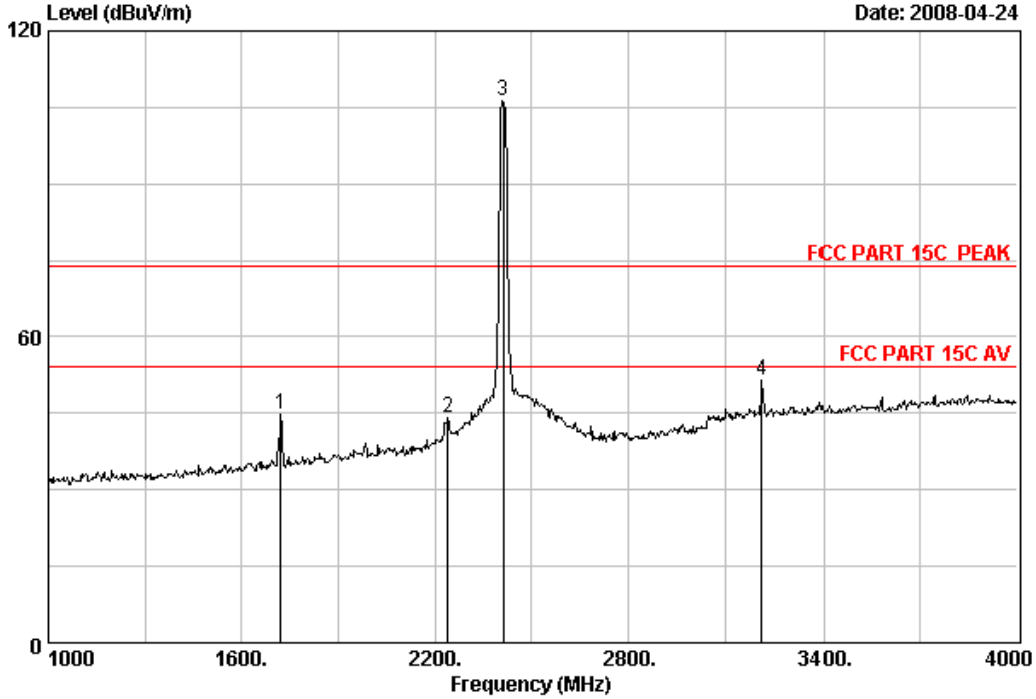
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.00	27.97	6.16	35.32	40.48	39.29	74.00	34.71	Peak
2	2437.00	29.11	6.80	35.17	104.75	105.49	74.00	-31.49	Peak
3	3250.00	31.66	8.23	34.92	45.58	50.55	74.00	23.45	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: 104 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz Tx

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	1720.00	26.54	5.67	35.55	48.24	44.90	74.00	29.10	Peak
2	2239.00	28.62	6.53	35.22	44.09	44.02	74.00	29.98	Peak
3	2412.00	29.03	6.73	35.18	105.88	106.46	74.00	-32.46	Peak
4	3214.00	31.57	8.13	34.93	46.77	51.54	74.00	22.46	Peak

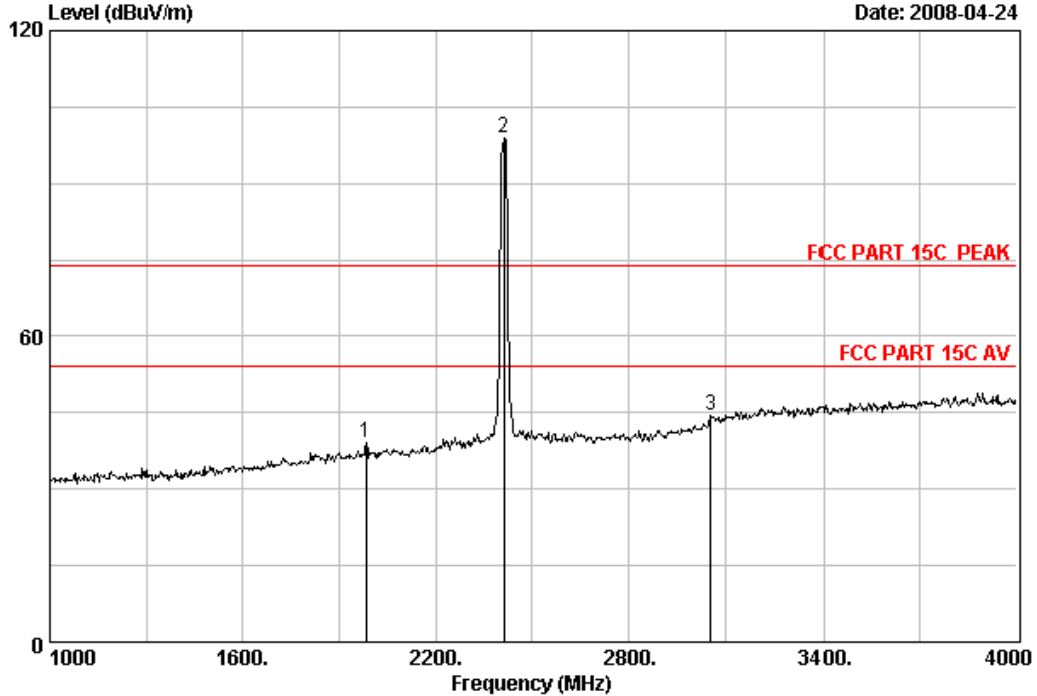
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 103 File: D:\2008 report data\T\TP-LINK\ACS8Q347.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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz Tx

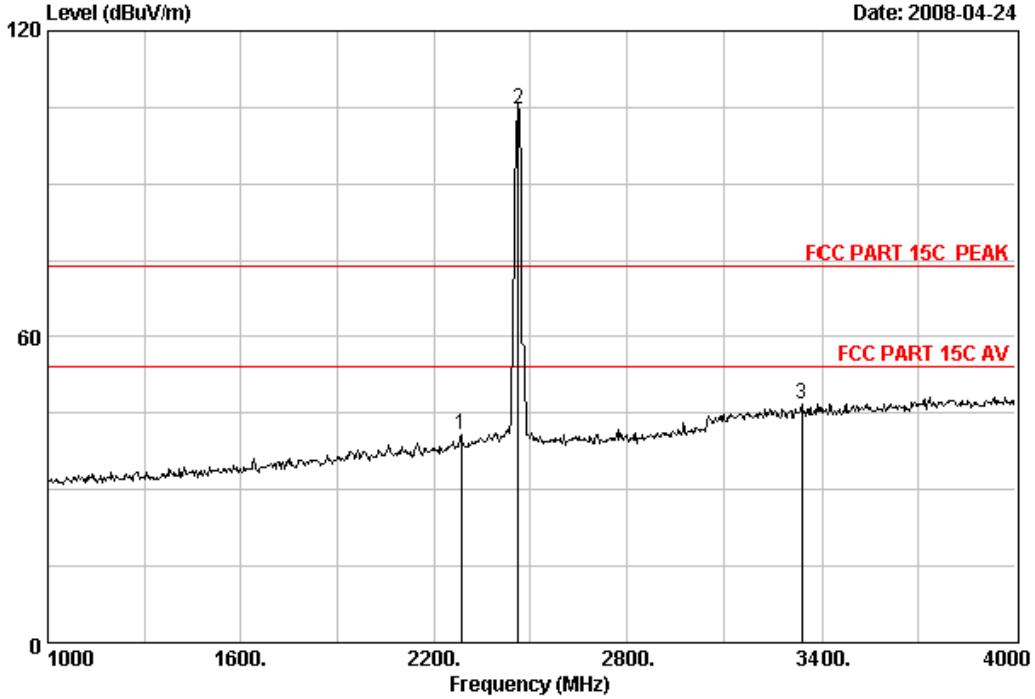
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	1984.00	27.97	6.16	35.32	40.19	39.00	74.00	35.00	Peak
2	2412.00	29.03	6.73	35.18	98.29	98.87	74.00	-24.87	Peak
3	3055.00	31.14	7.78	34.99	40.45	44.38	74.00	29.62	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: 102 File: D:\2008 report data\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx

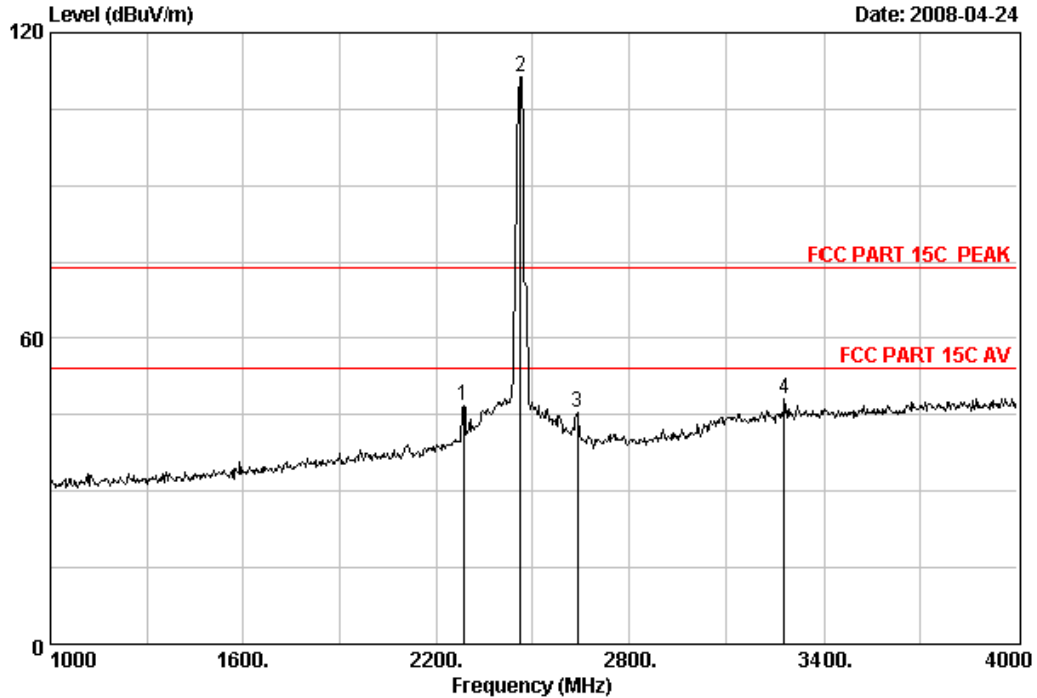
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	28.75	6.61	35.22	40.65	40.79	74.00	33.21	Peak	
2	29.15	6.84	35.17	103.66	104.48	74.00	-30.48	Peak	
3	31.94	8.42	34.90	41.44	46.90	74.00	27.10	Peak	

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.



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: 101 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx

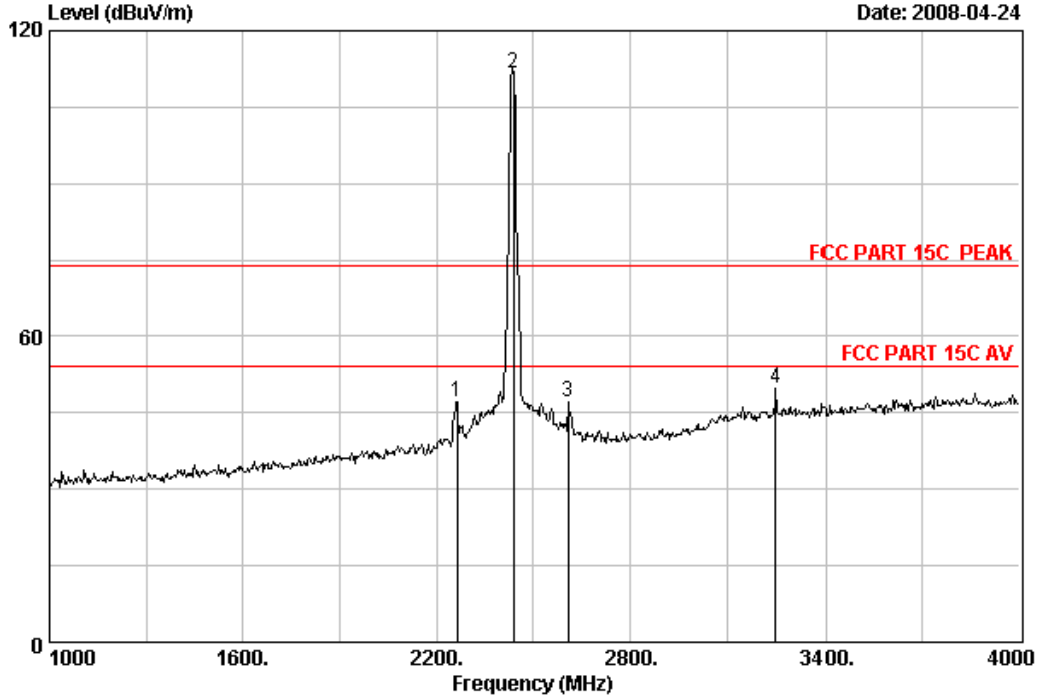
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2284.00	28.75	6.61	35.22	46.55	46.69	74.00	27.31	Peak
2	2462.00	29.15	6.84	35.17	110.59	111.41	74.00	-37.41	Peak
3	2638.00	29.70	7.09	35.10	43.88	45.57	74.00	28.43	Peak
4	3283.00	31.76	8.28	34.92	42.99	48.11	74.00	25.89	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: 100 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

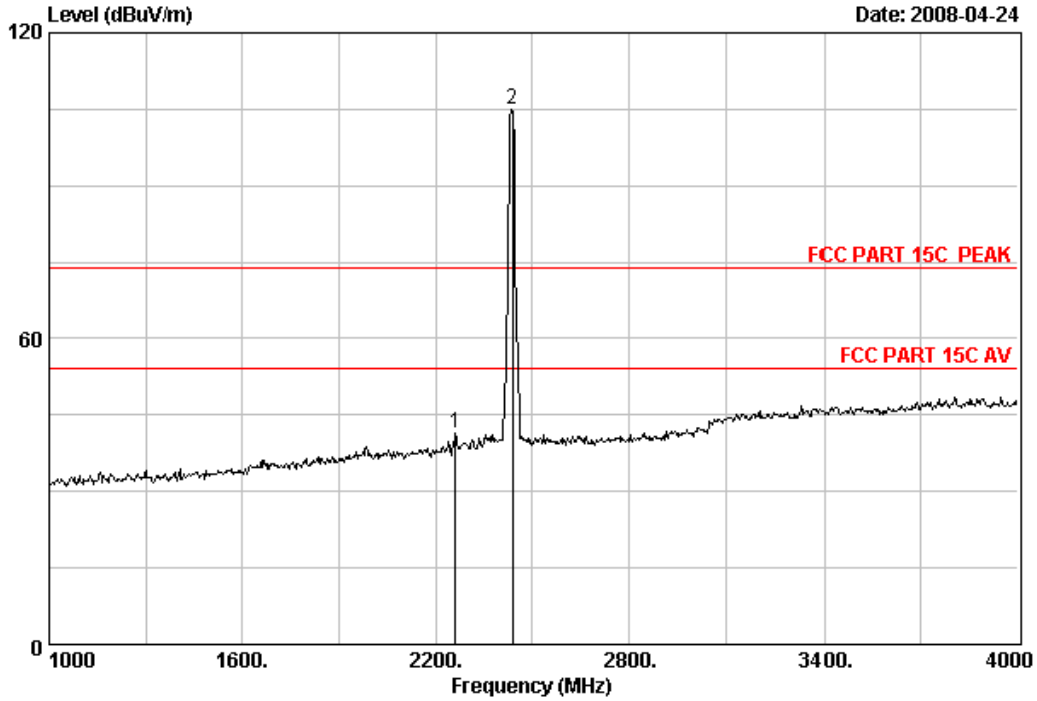
	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	2263.00	28.67	6.58	35.22	47.25	47.28	74.00	26.72	Peak
2	2437.00	29.11	6.80	35.17	110.80	111.54	74.00	-37.54	Peak
3	2608.00	29.64	7.06	35.12	45.50	47.08	74.00	26.92	Peak
4	3250.00	31.66	8.23	34.92	44.80	49.77	74.00	24.23	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: 99 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

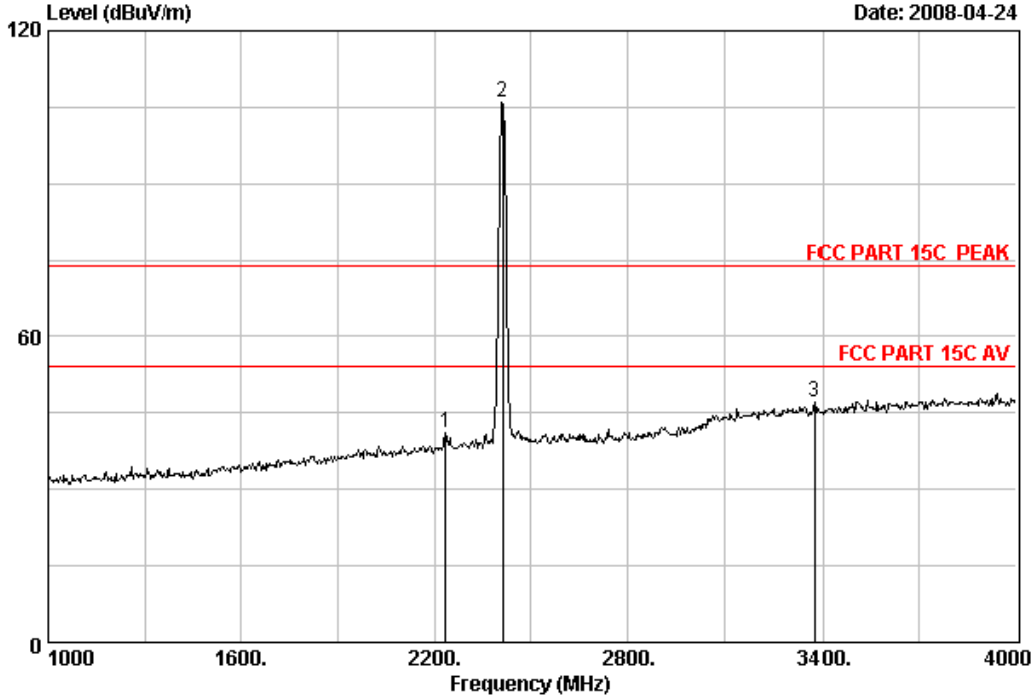
	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	2260.00	28.67	6.56	35.22	41.56	41.57	74.00	32.43	Peak
2	2437.00	29.11	6.80	35.17	104.15	104.89	74.00	-30.89	Peak

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: 98 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (120)



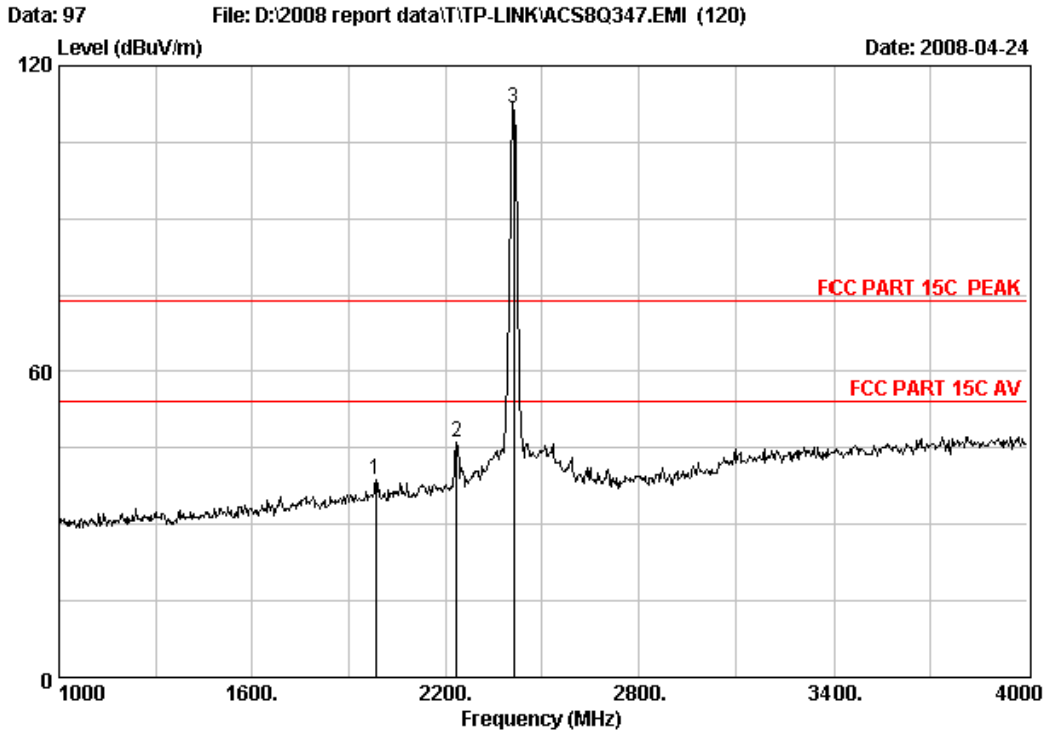
Site no. : RF Chamber Data no. : 98
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz Tx

	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	41.36	41.28	74.00	32.72	Peak
2	2412.00	29.03	6.73	35.18	105.46	106.04	74.00	-32.04	Peak
3	3379.00	32.04	8.45	34.89	41.41	47.01	74.00	26.99	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



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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz Tx

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq.	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)		
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)				
1	1984.00	27.97	6.16	35.32	40.08	38.89	74.00	35.11	Peak
2	2233.00	28.62	6.53	35.23	46.11	46.03	74.00	27.97	Peak
3	2412.00	29.03	6.73	35.18	111.16	111.74	74.00	-37.74	Peak

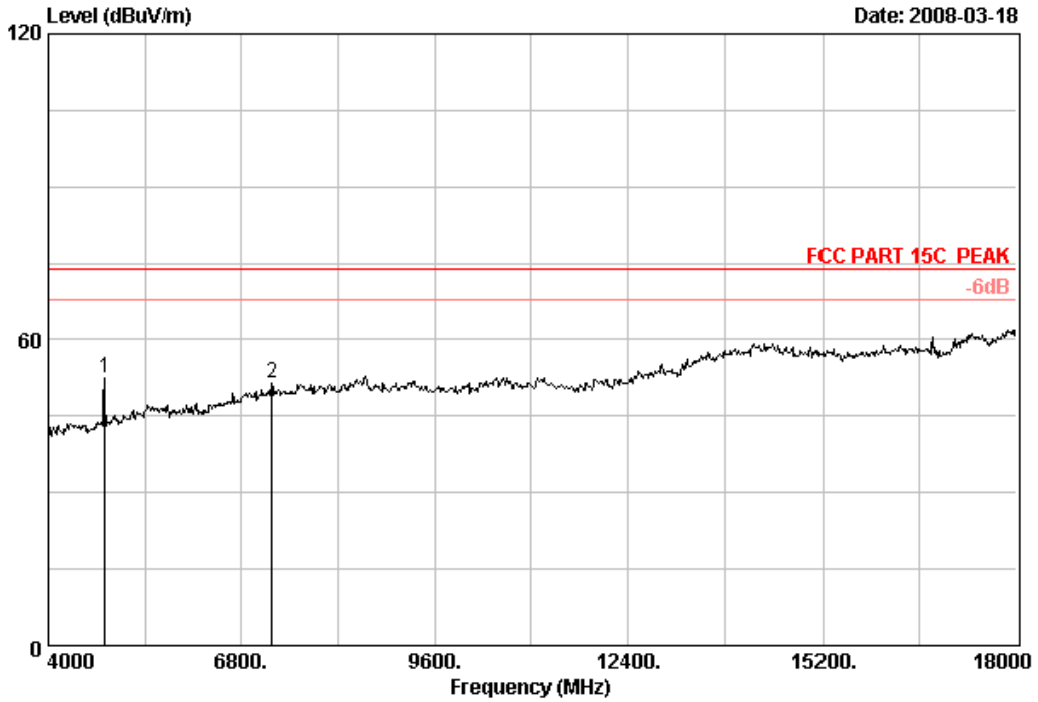
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 4GHz~18GHz



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: 121 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 121
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Router M/N:TL-WR941ND
Power Rating: DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11b CH1:2412MHz Tx

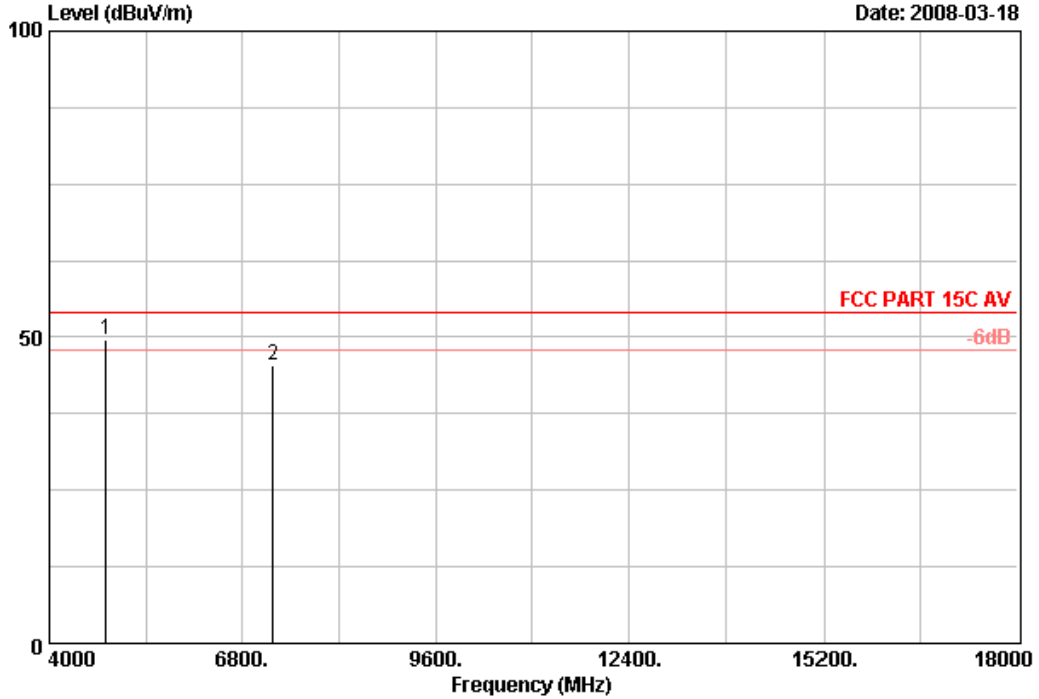
	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4824.00	34.02	10.55	34.49	42.30	52.38	74.00	21.62	Peak
2 7236.00	37.39	12.16	34.44	36.25	51.36	74.00	22.64	Peak

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: 122 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 122
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz Tx

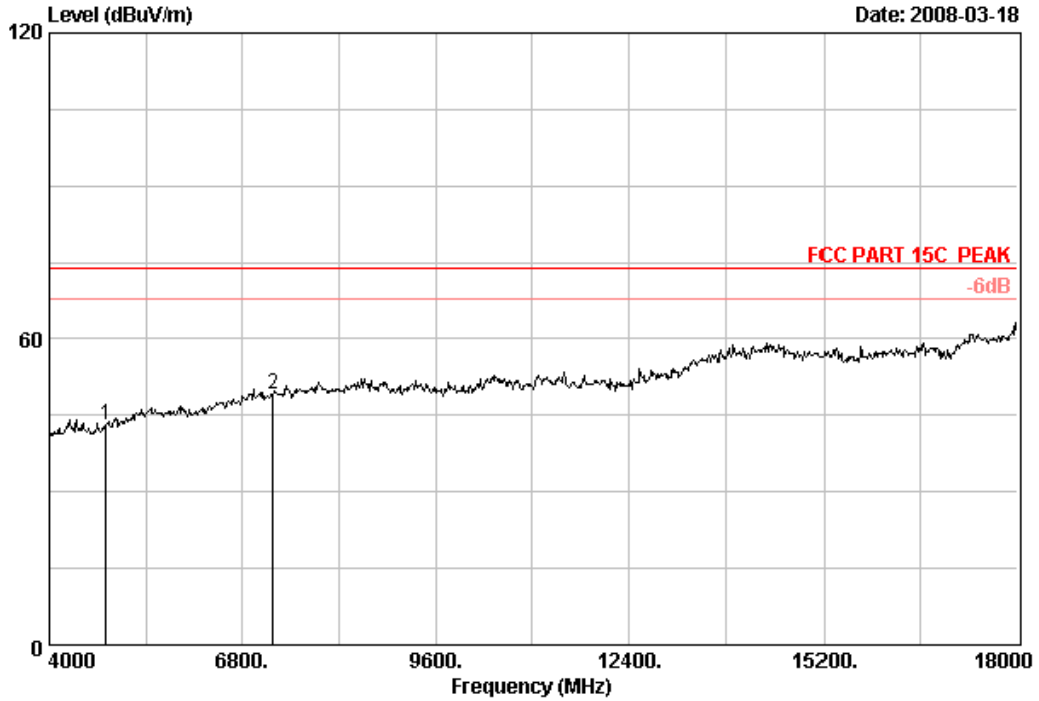
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	39.43	49.51	54.00	4.49	Average
2	7236.00	37.39	12.16	34.44	30.21	45.32	54.00	8.68	Average

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.



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: 123 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 123
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz Tx

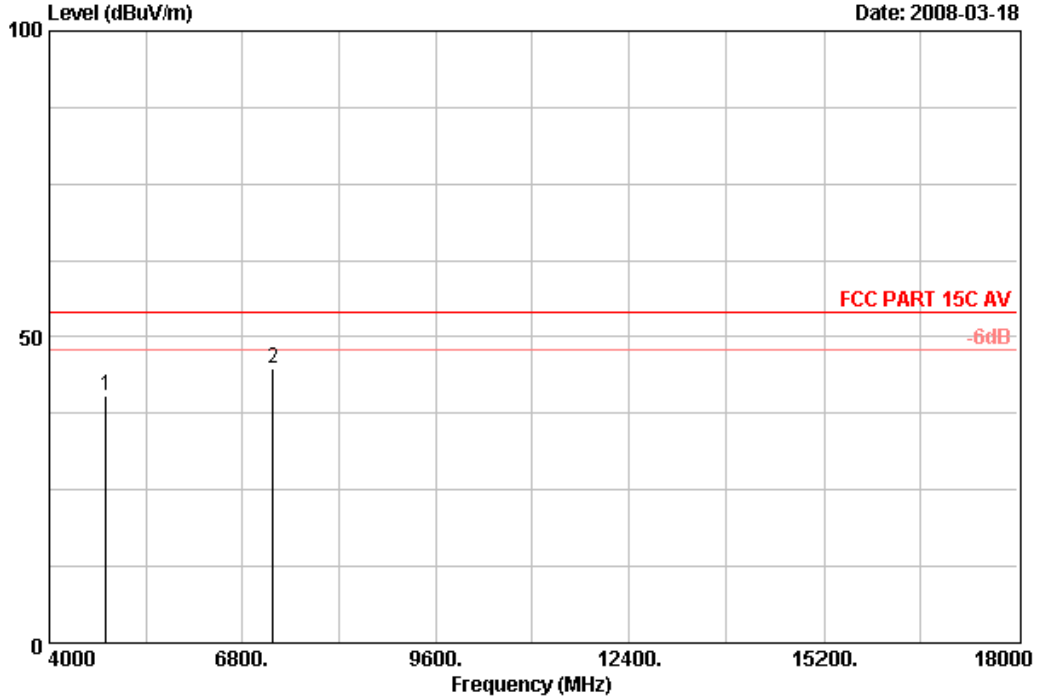
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	33.07	43.15	74.00	30.85	Peak
2	7236.00	37.39	12.16	34.44	34.16	49.27	74.00	24.73	Peak

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.



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: 124 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 124
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b 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	4824.00	34.02	10.55	34.49	30.24	40.32	54.00	13.68	Average
2	7236.00	37.39	12.16	34.44	29.65	44.76	54.00	9.24	Average

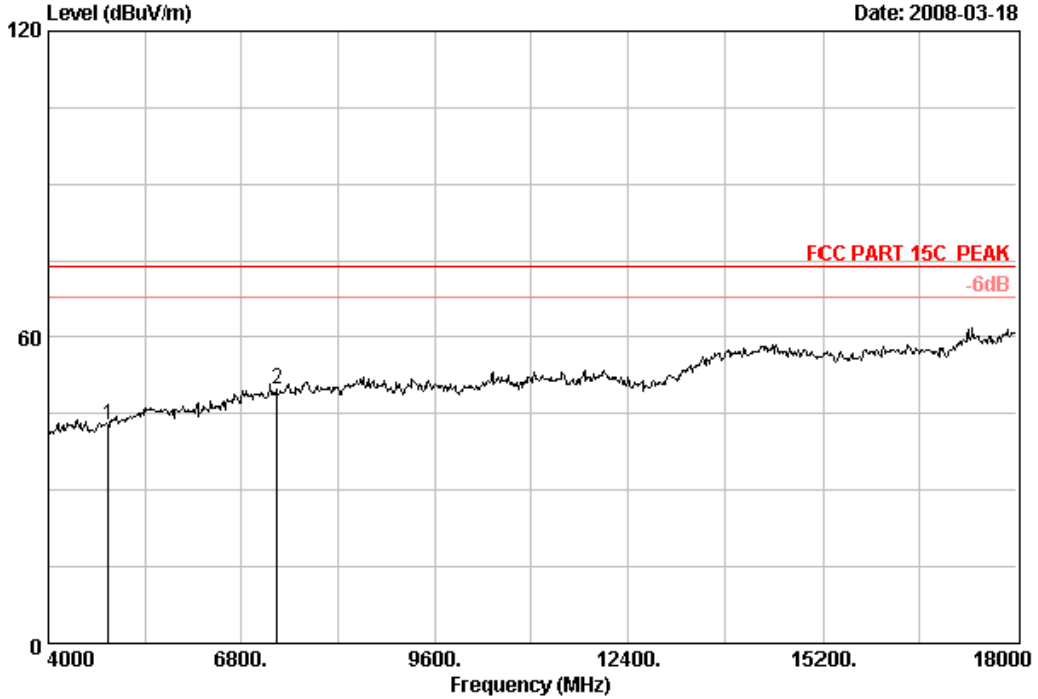
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 125 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-18



Site no. : 3m Chamber Data no. : 125
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

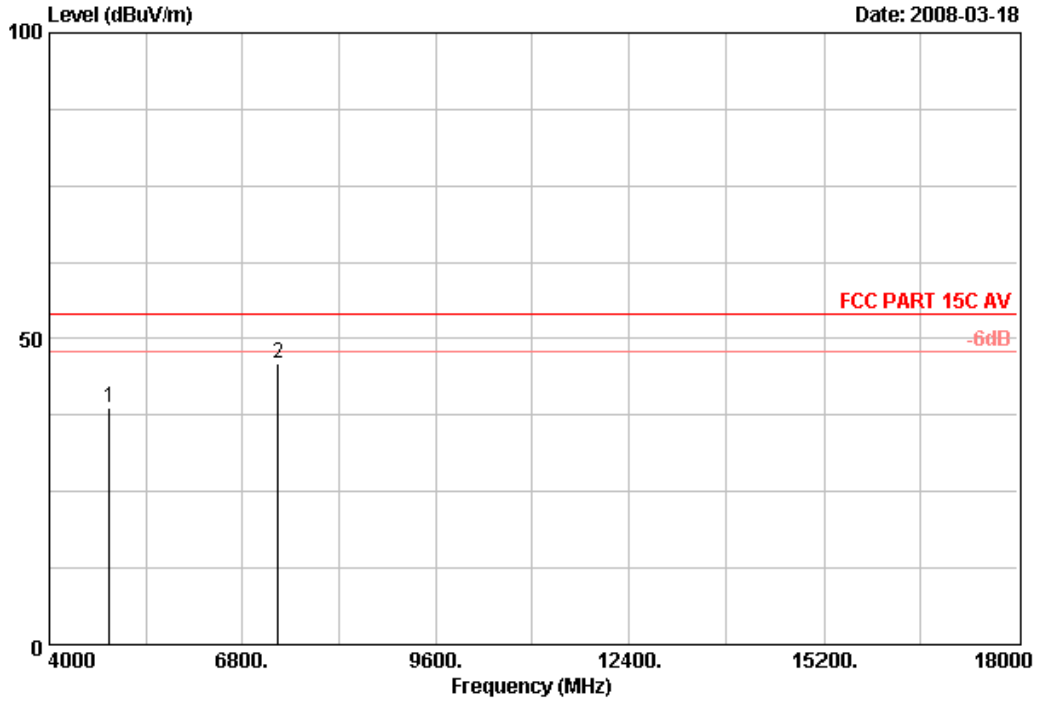
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	32.45	42.69	74.00	31.31	Peak
2	7311.00	37.50	12.17	34.46	34.62	49.83	74.00	24.17	Peak

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: 126 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 126
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

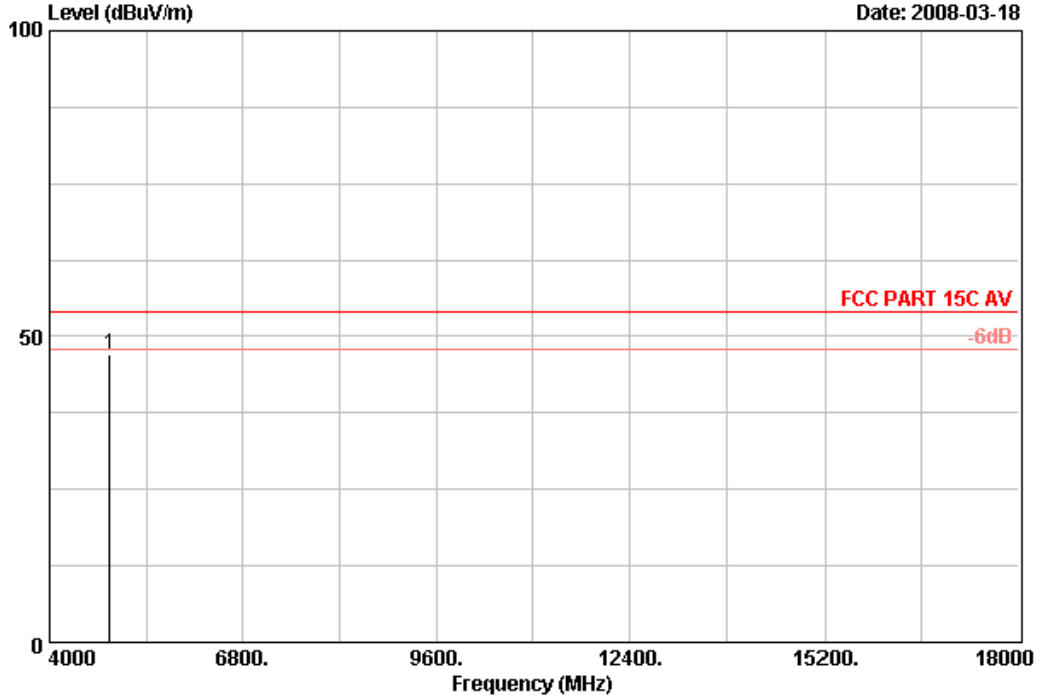
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	28.45	38.69	54.00	15.31	Average
2	7311.00	37.50	12.17	34.46	30.89	46.10	54.00	7.90	Average

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: 128 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

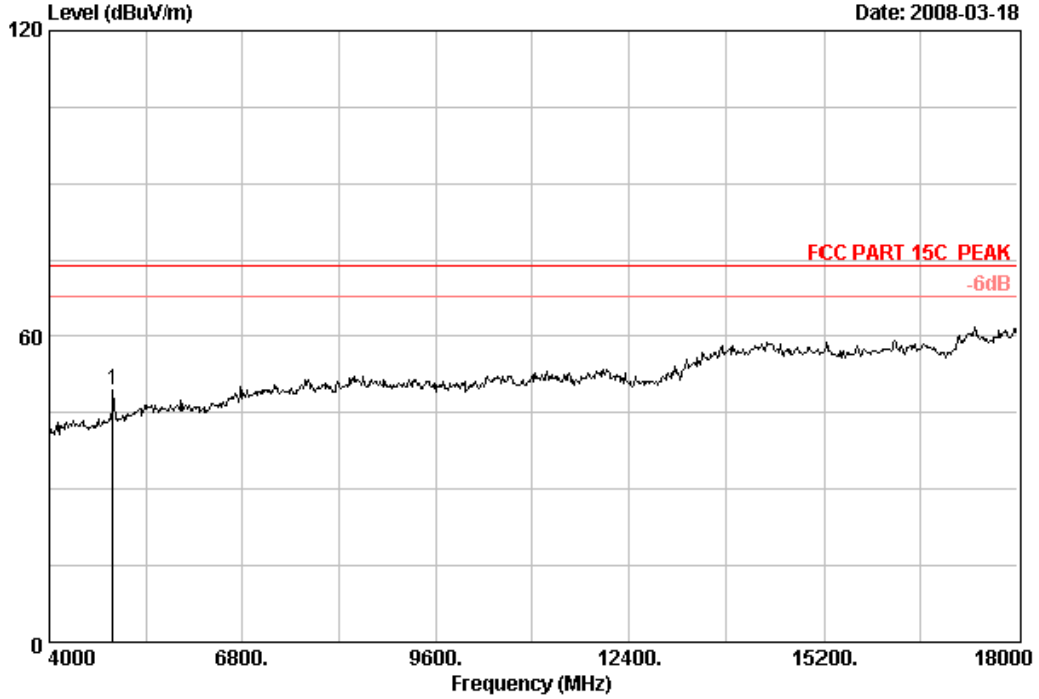
	Ant.	Cable	Amp	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	36.71	46.95	54.00	7.05	Average

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: 129 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 129
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx

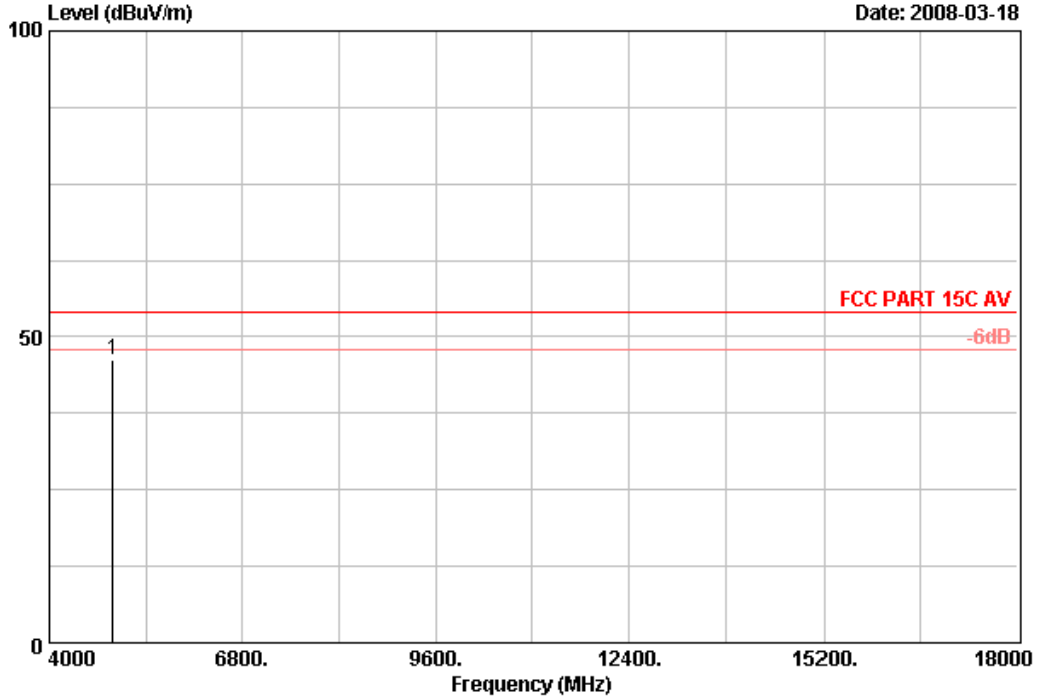
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
-----	1	4924.00	34.29	10.58	34.47	38.98	49.38	74.00	24.62	Peak

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: 130 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 130
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx

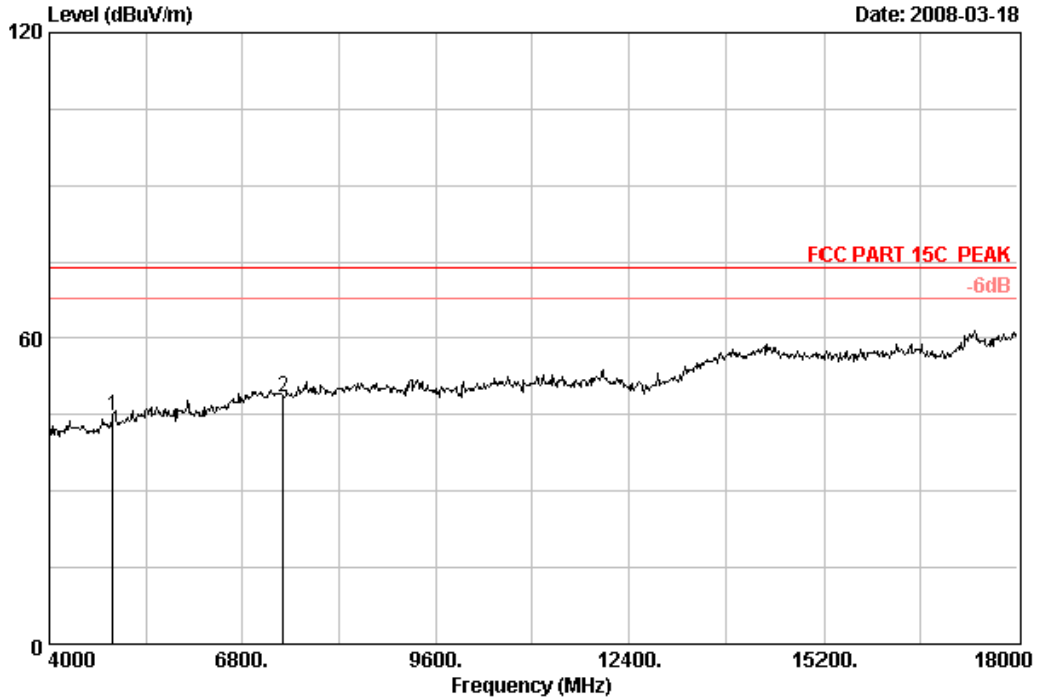
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
-----	1	4924.00	34.29	10.58	34.47	35.79	46.19	54.00	7.81	Average

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: 131 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx

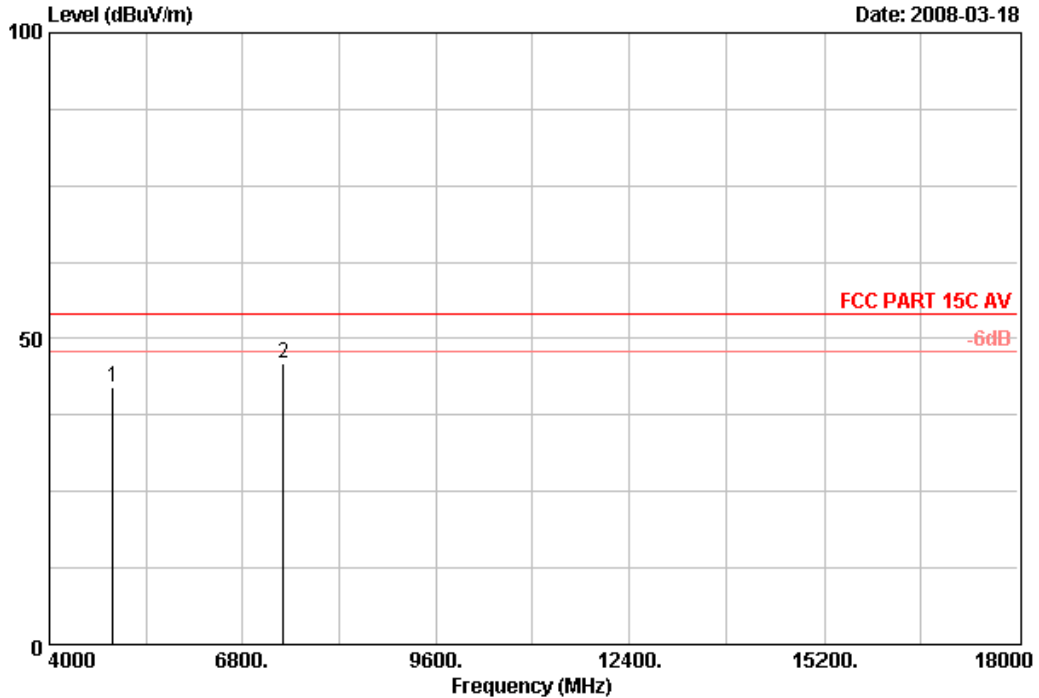
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	34.49	44.89	74.00	29.11	Peak
2	7386.00	37.63	12.31	34.47	33.14	48.61	74.00	25.39	Peak

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.



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: 132 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m 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 Router M/N:TL-WR941ND
 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 Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	31.52	41.92	54.00	12.08	Average
2	7386.00	37.63	12.31	34.47	30.49	45.96	54.00	8.04	Average

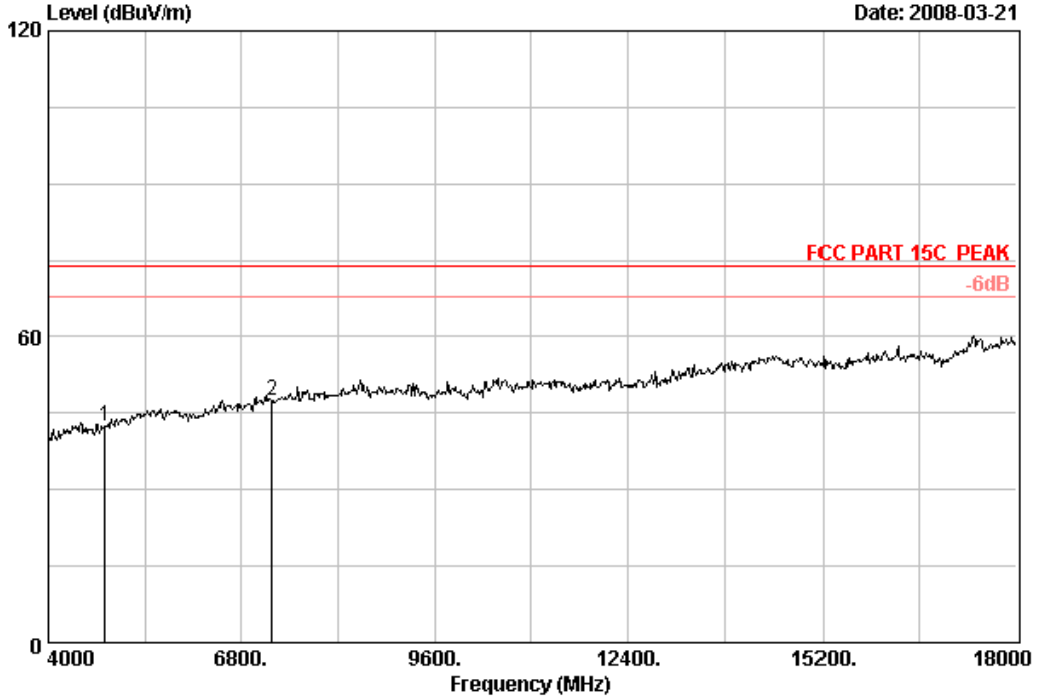
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 133 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/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	4824.00	34.02	10.55	34.49	32.27	42.35	74.00	31.65	Peak
2	7236.00	37.39	12.16	34.44	32.47	47.58	74.00	26.42	Peak

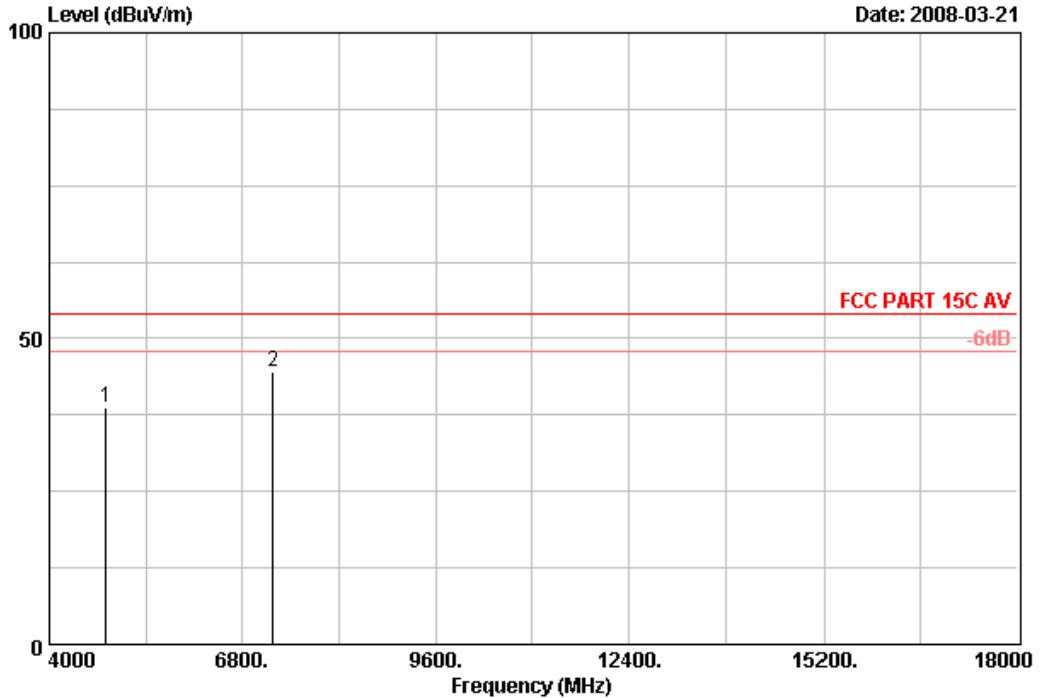
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 134 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	28.55	38.63	54.00	15.37	Average
2	7236.00	37.39	12.16	34.44	29.43	44.54	54.00	9.46	Average

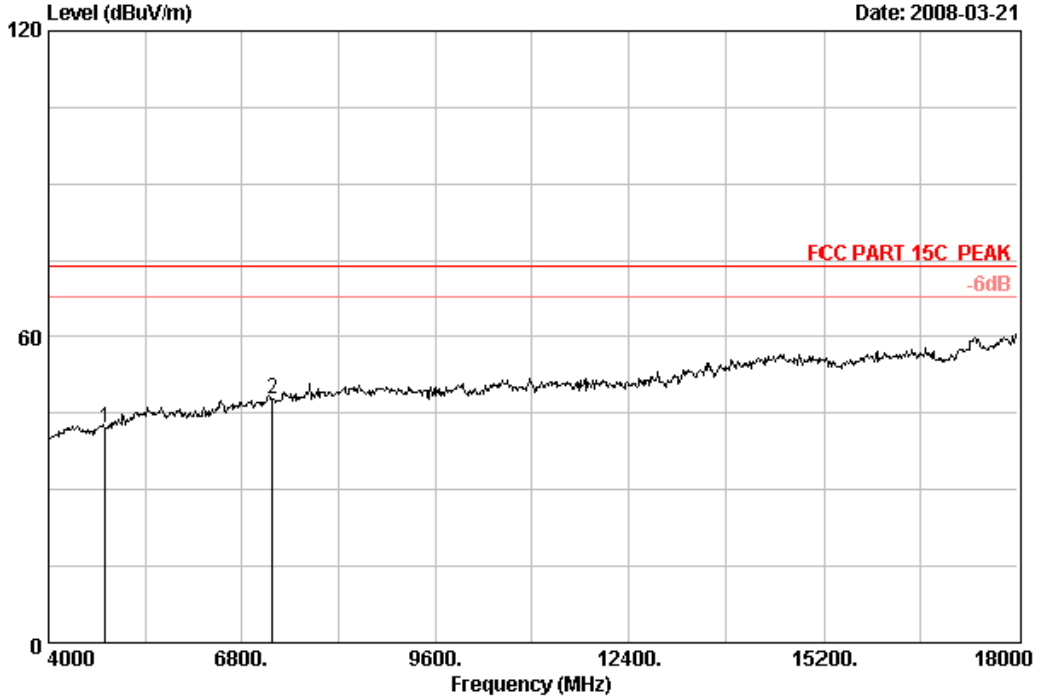
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 135 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 135
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/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	4824.00	34.02	10.55	34.49	32.10	42.18	74.00	31.82	Peak
2	7236.00	37.39	12.16	34.44	32.64	47.75	74.00	26.25	Peak

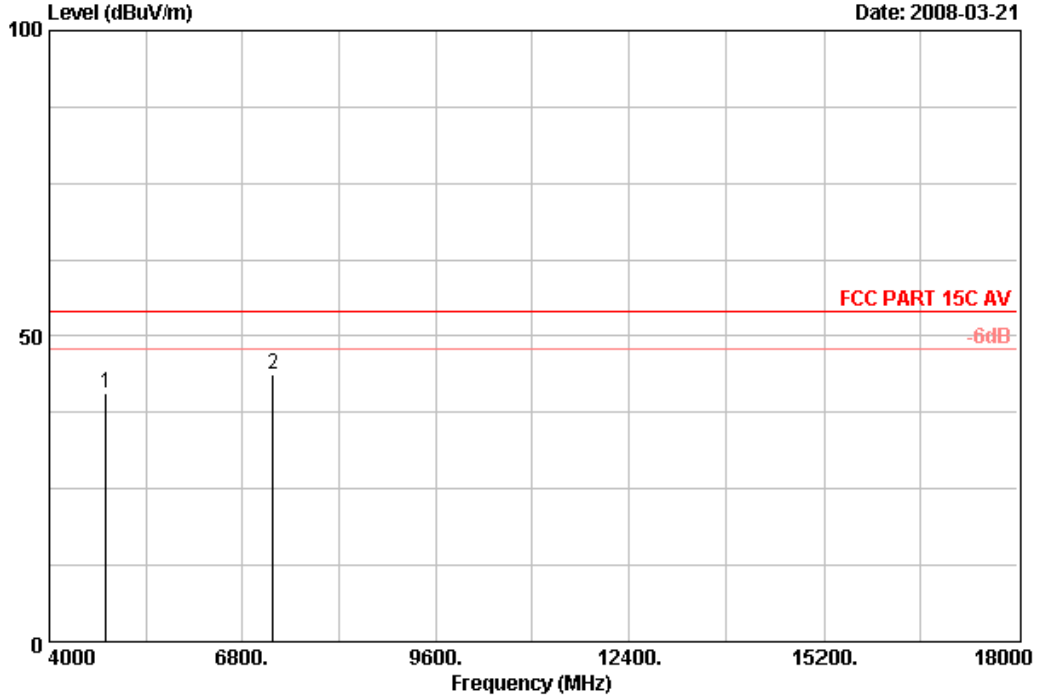
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 136 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 136
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/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	4824.00	34.02	10.55	34.49	30.55	40.63	54.00	13.37	Average
2	7236.00	37.39	12.16	34.44	28.64	43.75	54.00	10.25	Average

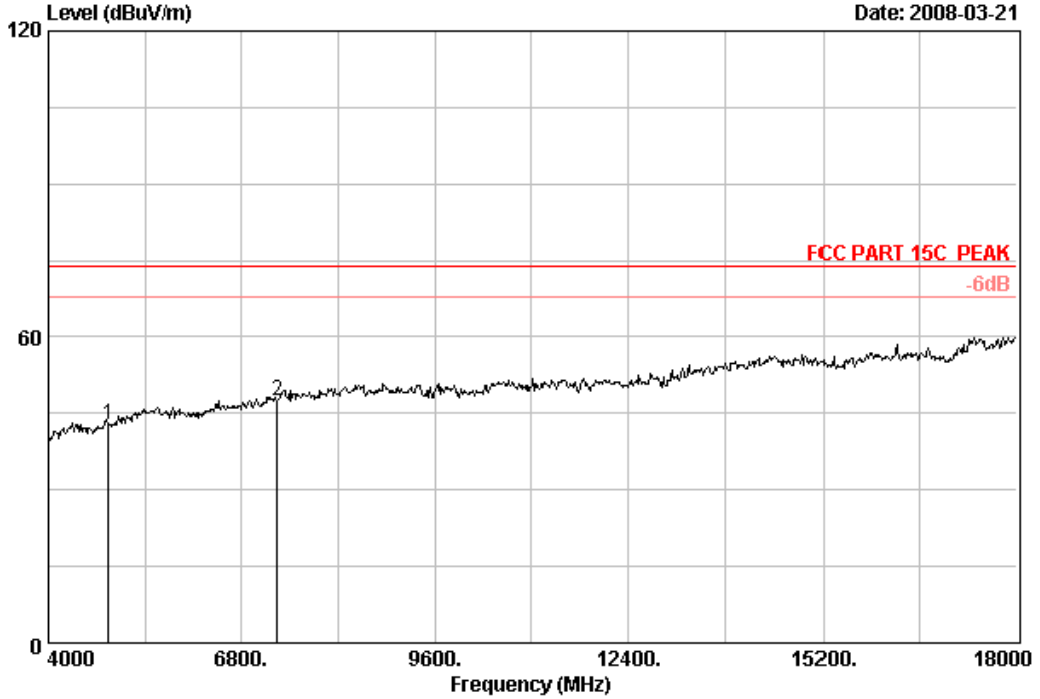
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 137 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH6:2437MHz Tx

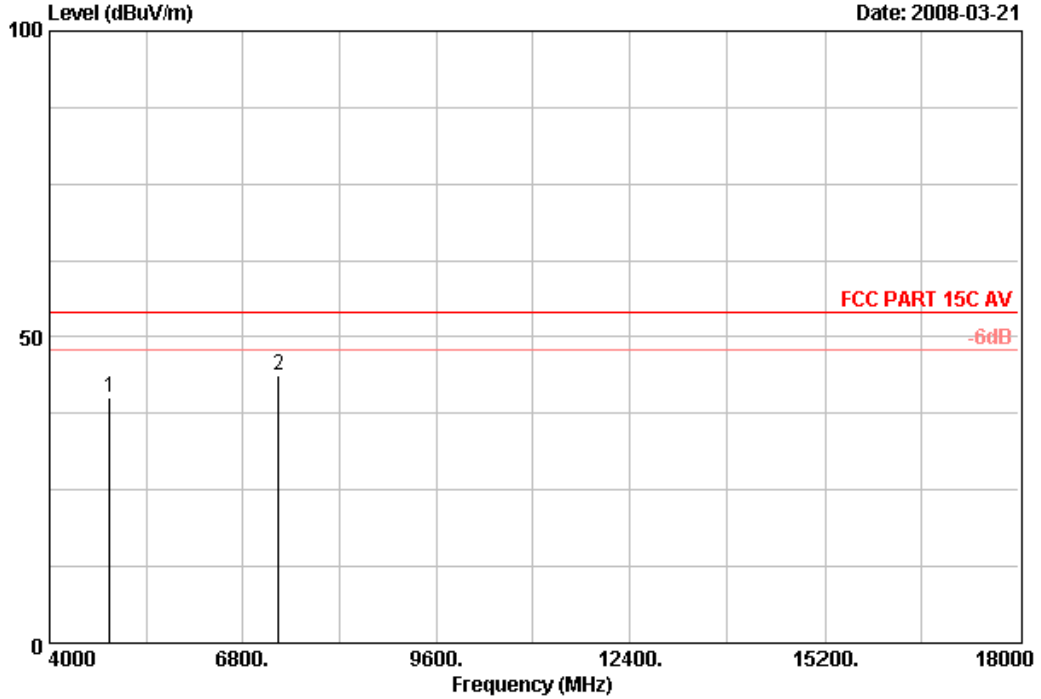
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	32.47	42.71	74.00	31.29	Peak
2	7311.00	37.50	12.17	34.46	32.13	47.34	74.00	26.66	Peak

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: 138 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m 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 Router M/N:TL-WR941ND
 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)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	29.87	40.11	54.00	13.89	Average
2	7311.00	37.50	12.17	34.46	28.45	43.66	54.00	10.34	Average

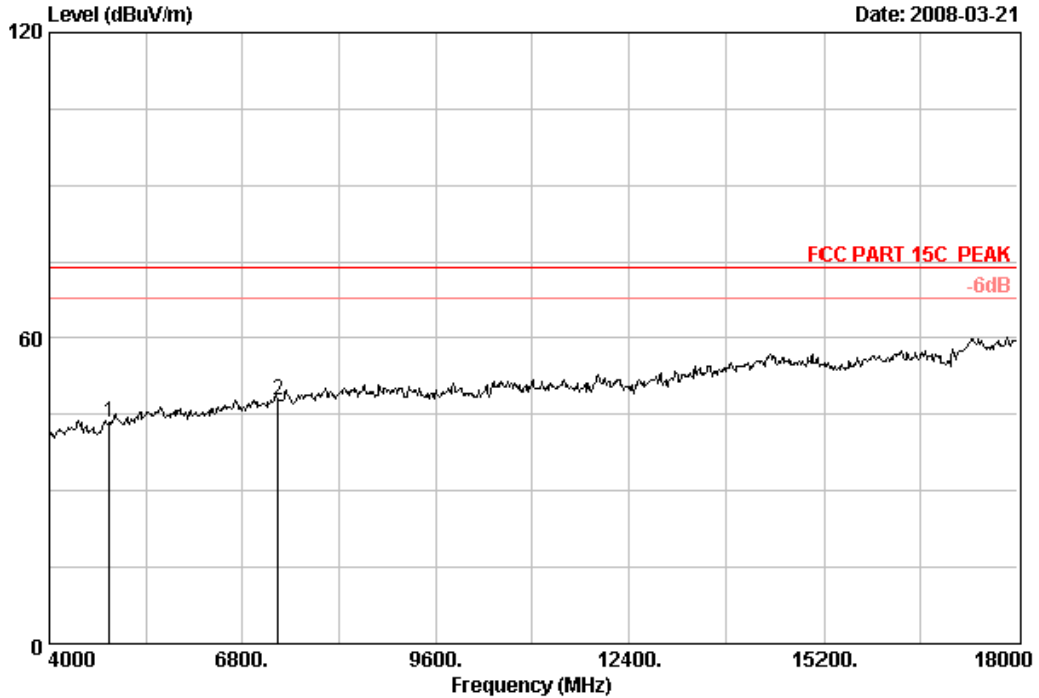
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 139 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 139
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH6:2437MHz Tx

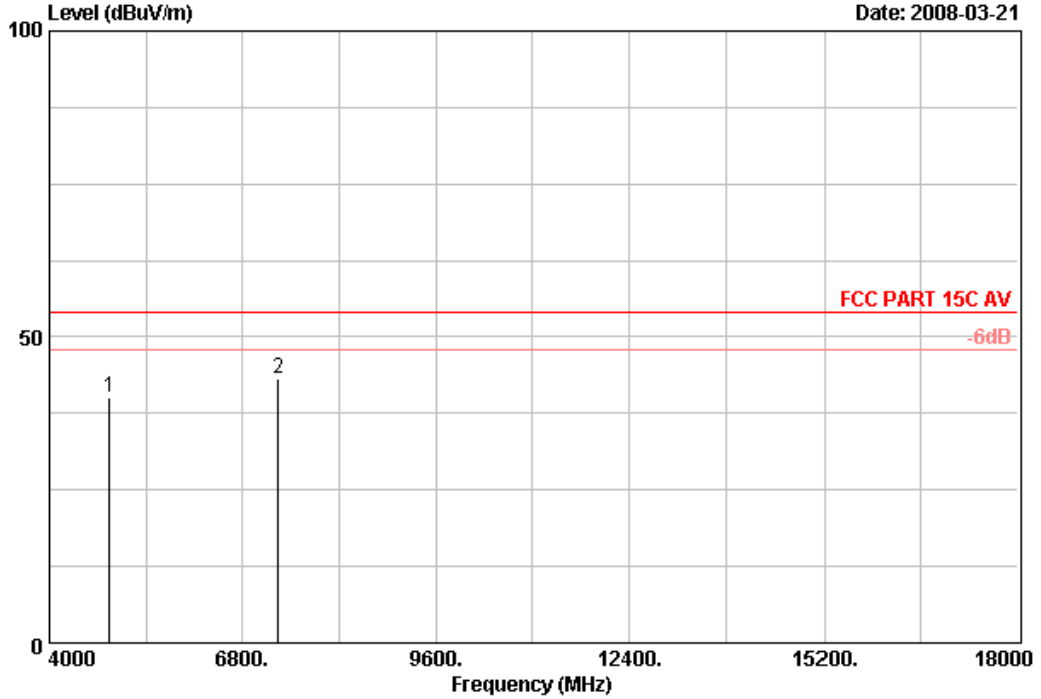
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	33.08	43.32	74.00	30.68	Peak
2	7311.00	37.50	12.17	34.46	32.51	47.72	74.00	26.28	Peak

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,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 140 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 140
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	29.78	40.02	54.00	13.98	Average
2	7311.00	37.50	12.17	34.46	27.89	43.10	54.00	10.90	Average

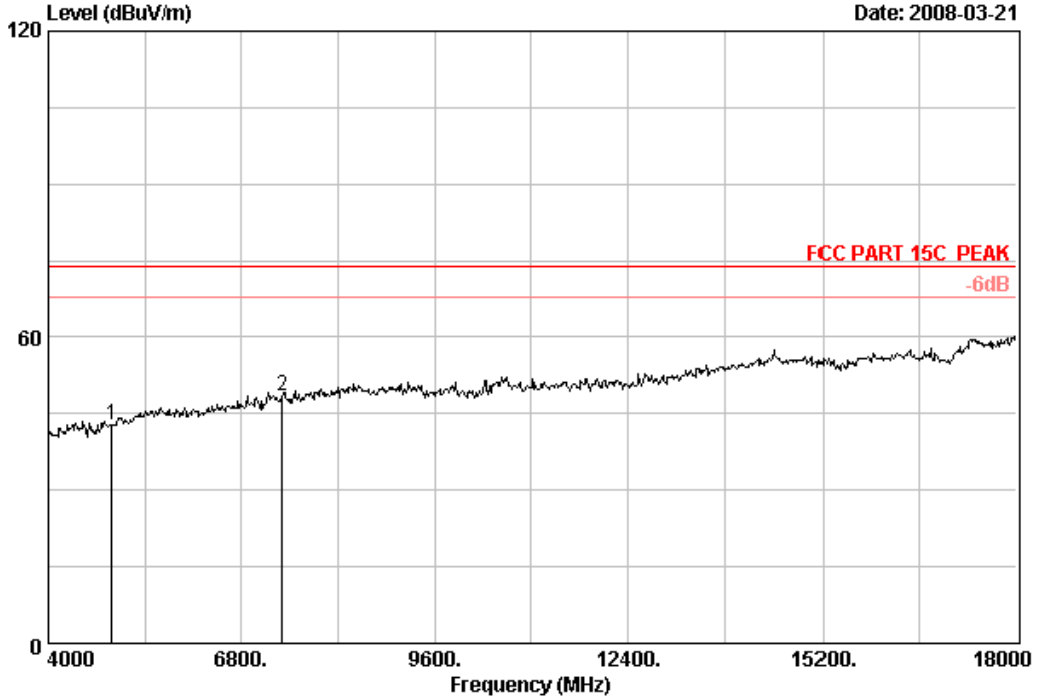
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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
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Data: 141 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz Tx

	Ant.	Cable	Amp	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	32.50	42.90	74.00	31.10	Peak
2	7386.00	37.63	12.31	34.47	32.99	48.46	74.00	25.54	Peak

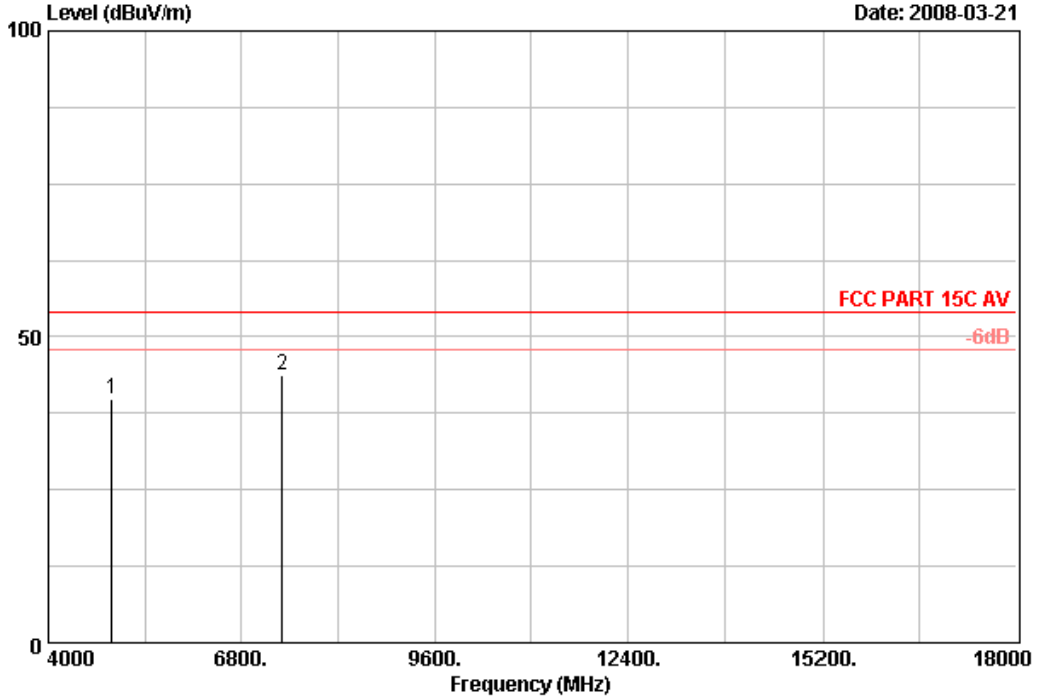
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 142 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz Tx

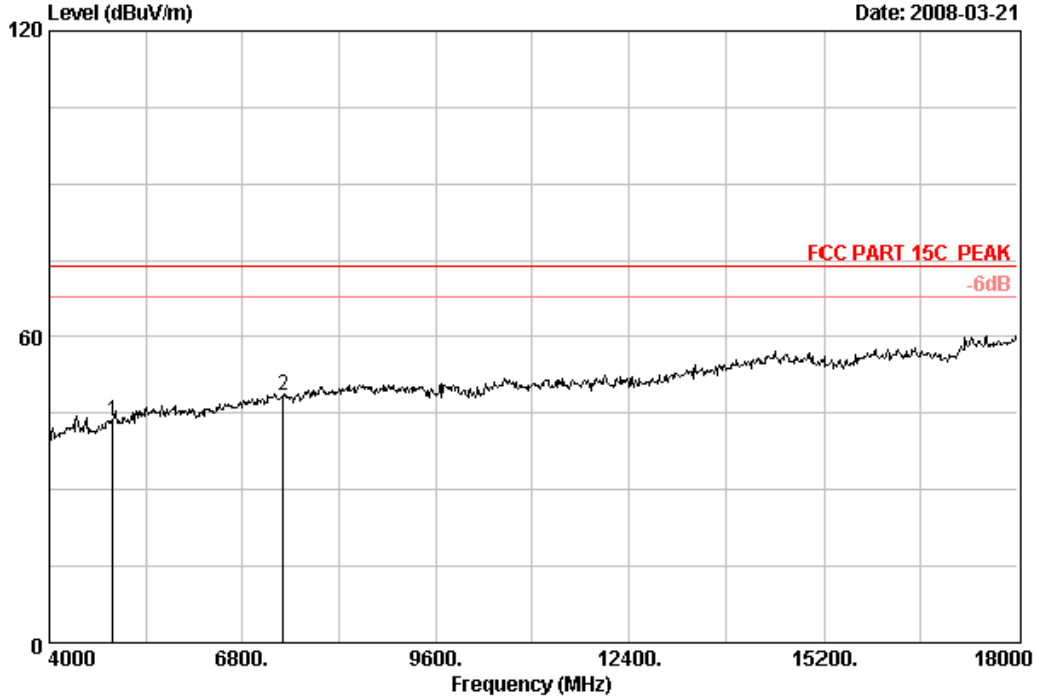
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	29.56	39.96	54.00	14.04	Average
2	7386.00	37.63	12.31	34.47	28.34	43.81	54.00	10.19	Average

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.



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: 143 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m Chamber Data no. : 143
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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	4924.00	34.29	10.58	34.47	32.91	43.31	74.00	30.69	Peak
2	7386.00	37.63	12.31	34.47	33.02	48.49	74.00	25.51	Peak

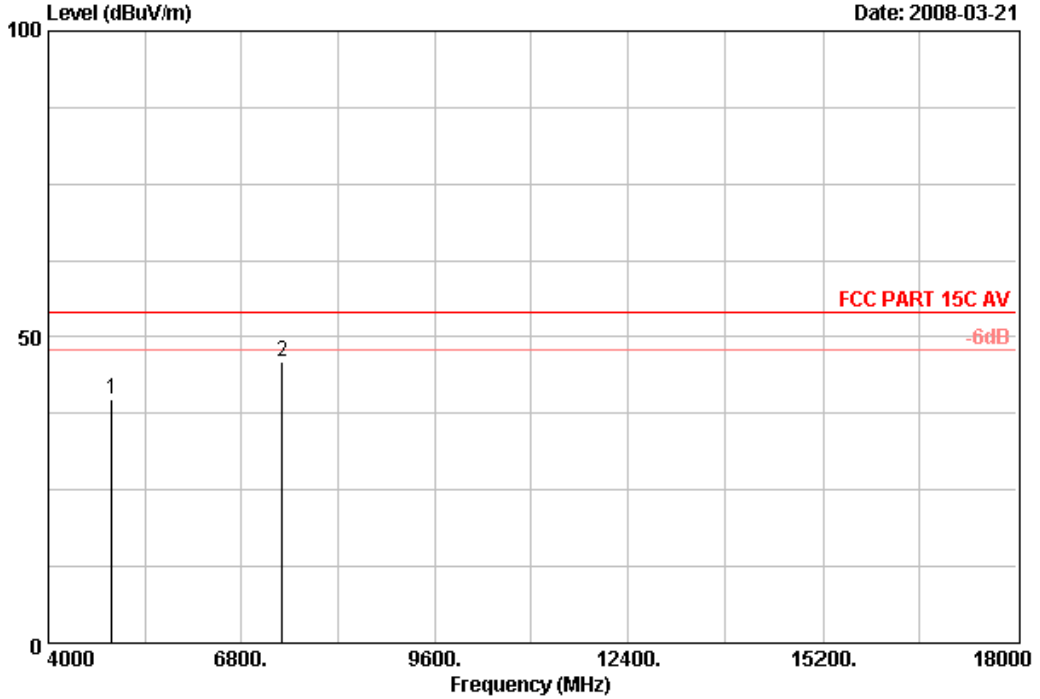
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 144 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 144
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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	4924.00	34.29	10.58	34.47	29.56	39.96	54.00	14.04	Average
2	7386.00	37.63	12.31	34.47	30.58	46.05	54.00	7.95	Average

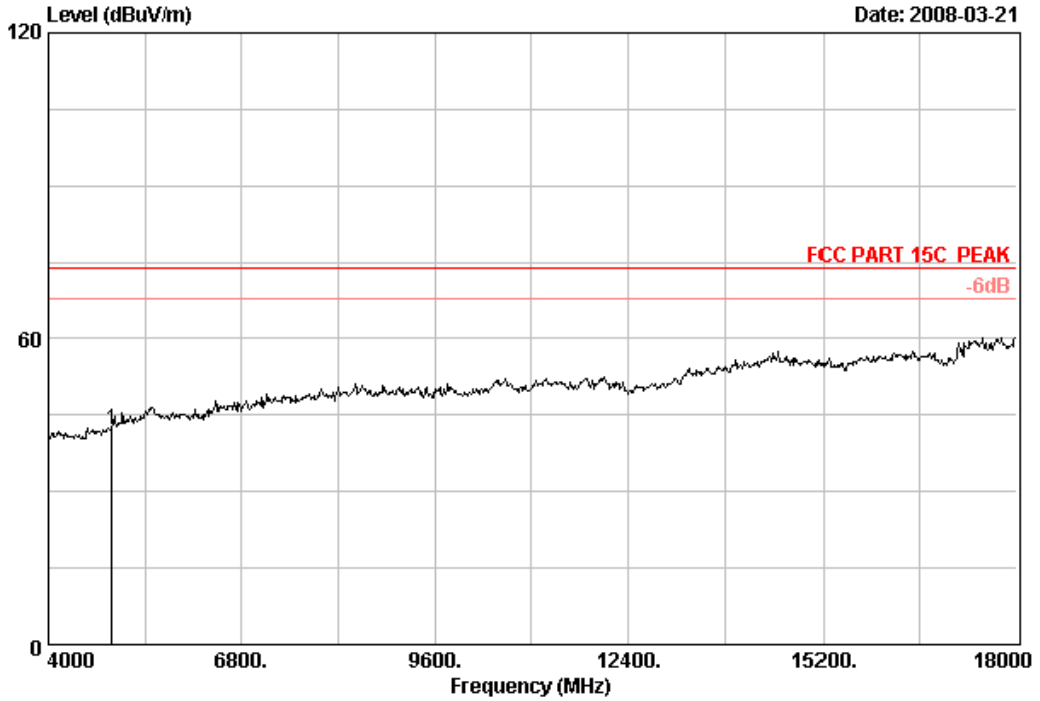
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 145
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4924.00	34.29	10.58	34.47	31.86	42.26	74.00	31.74	Peak

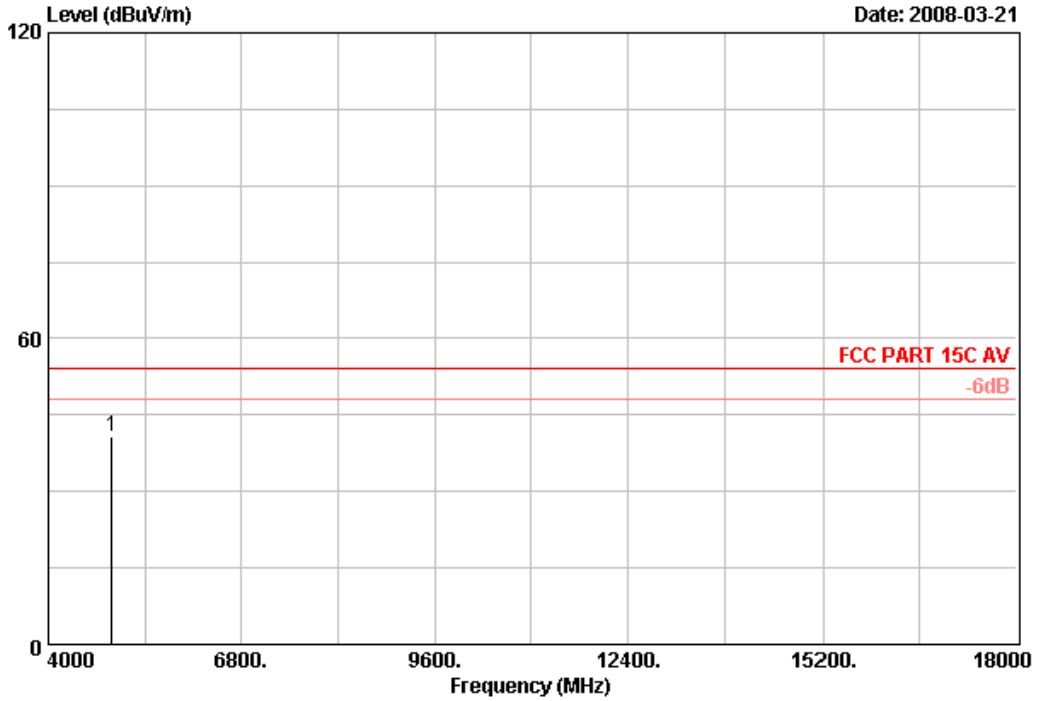
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 146
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH11:2462MHz Tx

	Ant.	Cable	Amp	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	30.24	40.64	54.00	13.36	Average

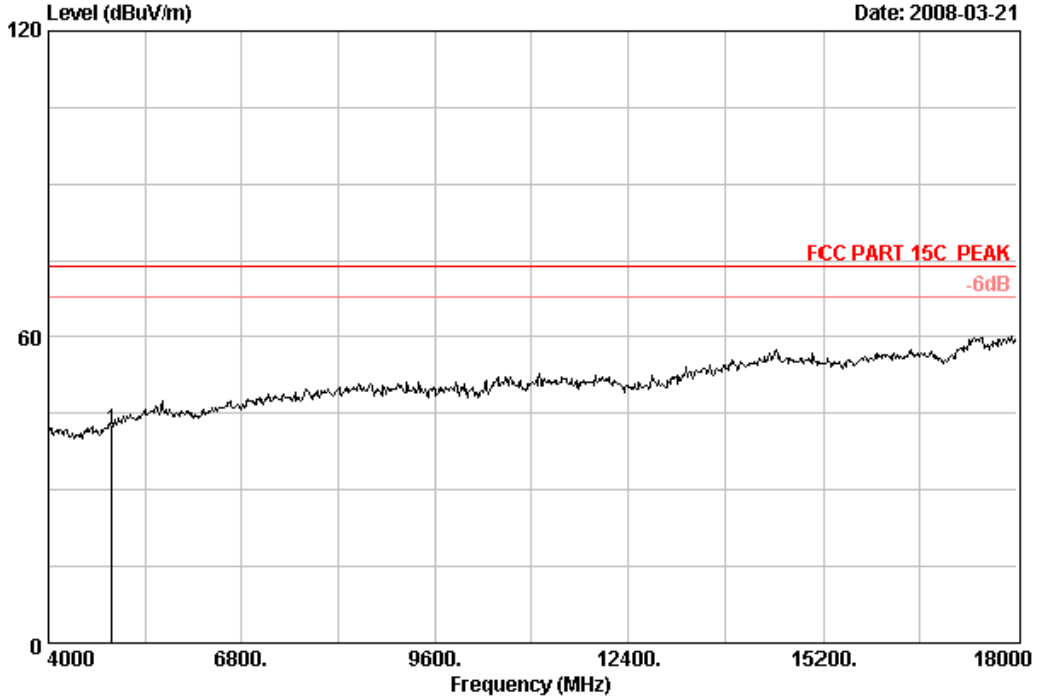
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 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	31.46	41.86	74.00	32.14	Peak

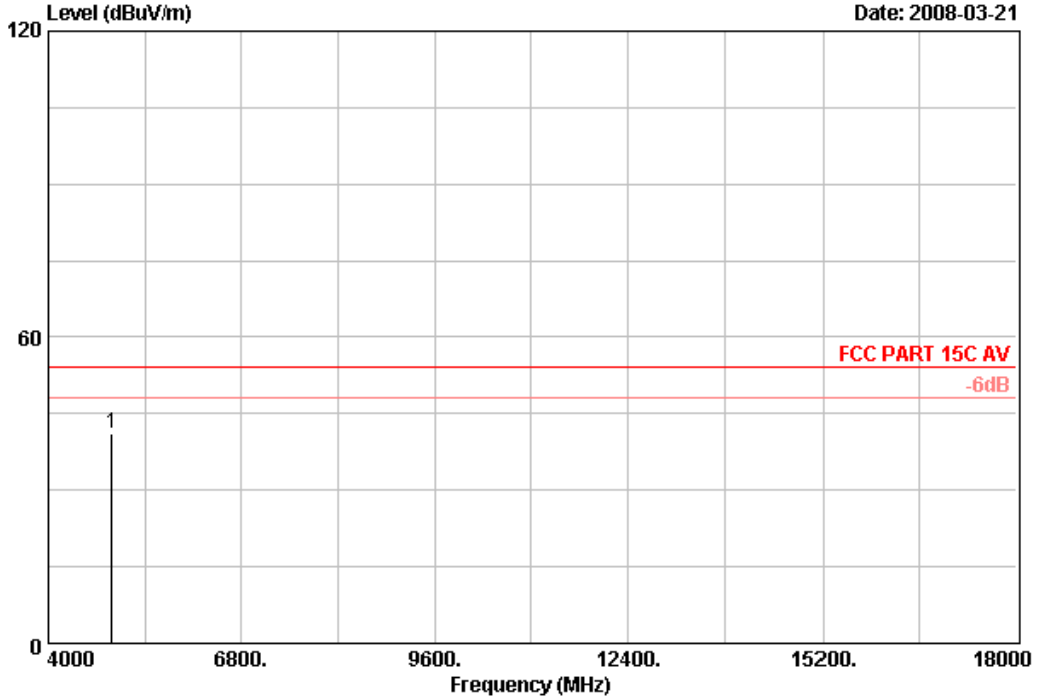
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4924.00	34.29	10.58	34.47	30.56	40.96	54.00	13.04	Average

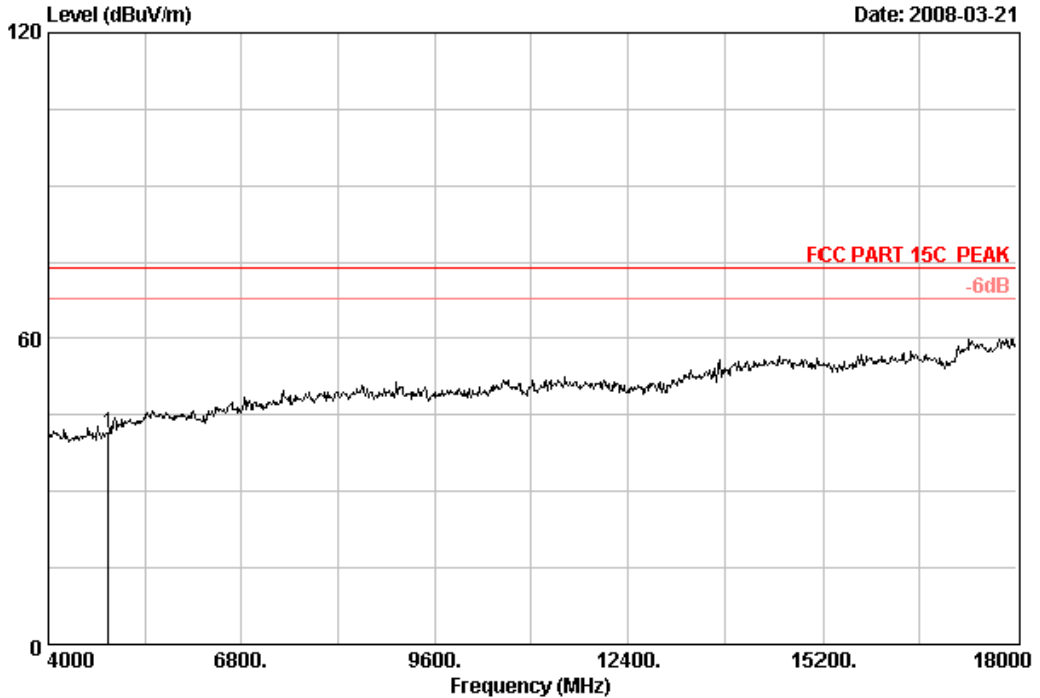
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 149
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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	31.24	41.48	74.00	32.52	Peak	

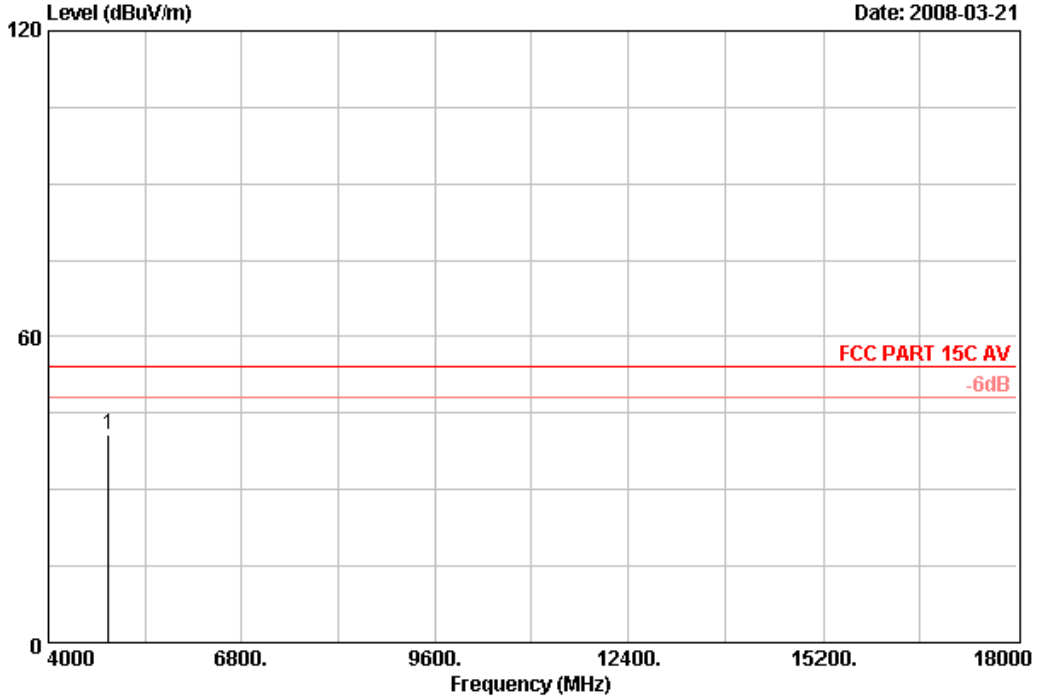
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 150
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH6:2437MHz 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	4874.00	34.16	10.56	34.48	30.68	40.92	54.00	13.08	Average

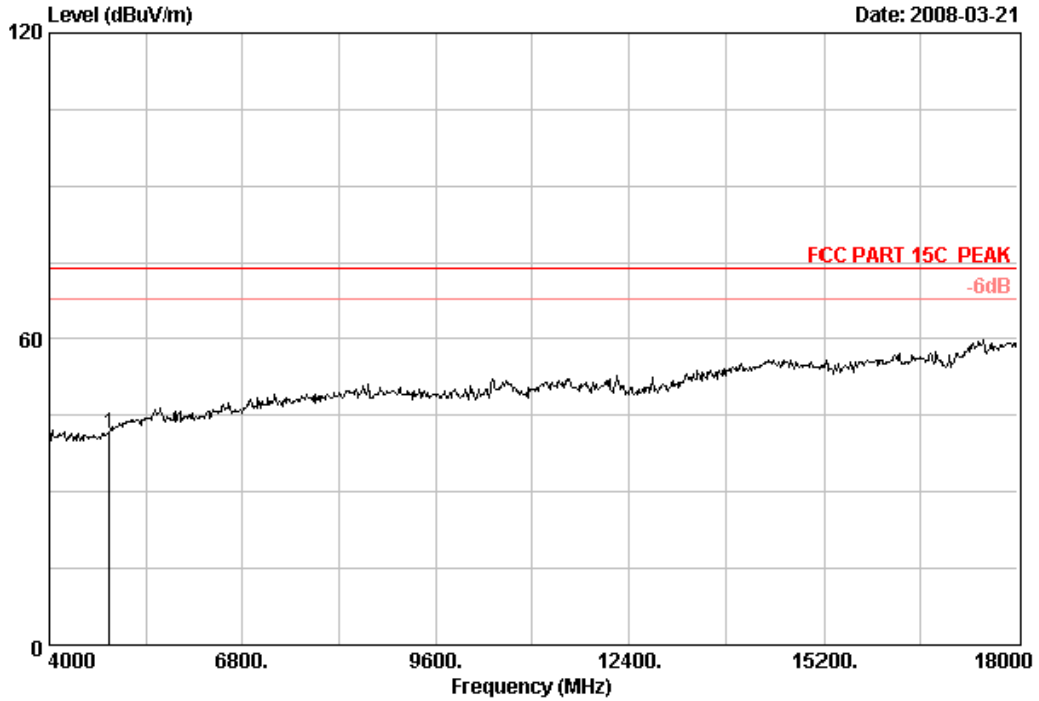
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH6:2437MHz Tx

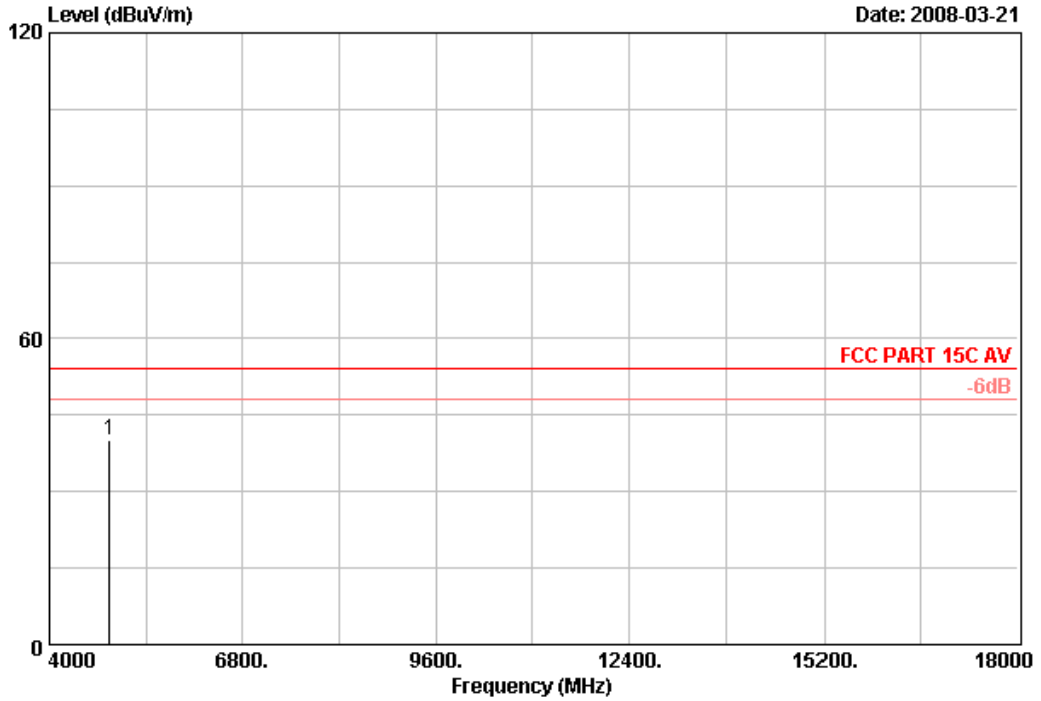
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4874.00	34.16	10.56	34.48	31.36	41.60	74.00	32.40	Peak	

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.



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

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Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH6:2437MHz 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	4874.00	34.16	10.56	34.48	30.02	40.26	54.00	13.74	Average

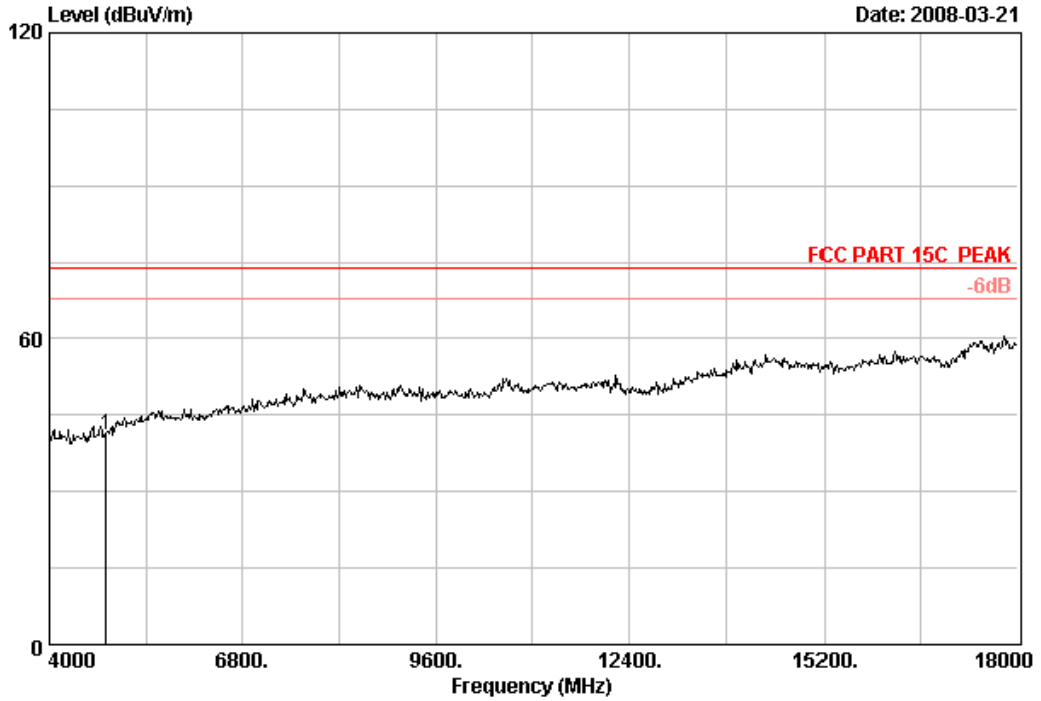
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 153
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4824.00	34.02	10.55	34.49	31.09	41.17	74.00	32.83	Peak

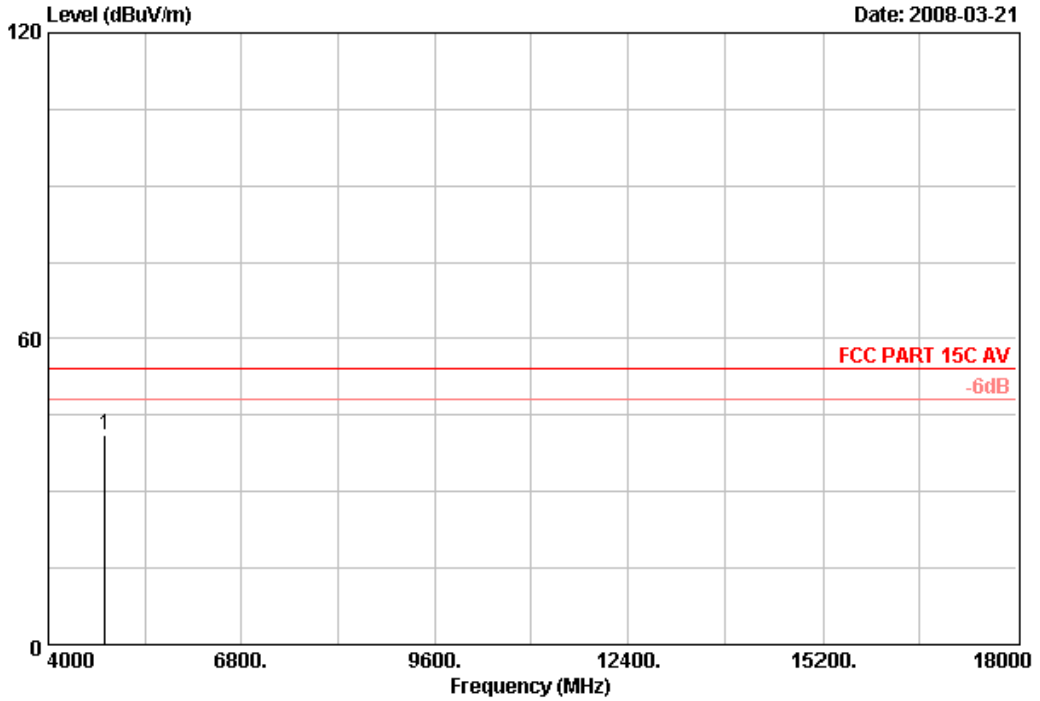
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 154
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4824.00	34.02	10.55	34.49	30.97	41.05	54.00	12.95	Average

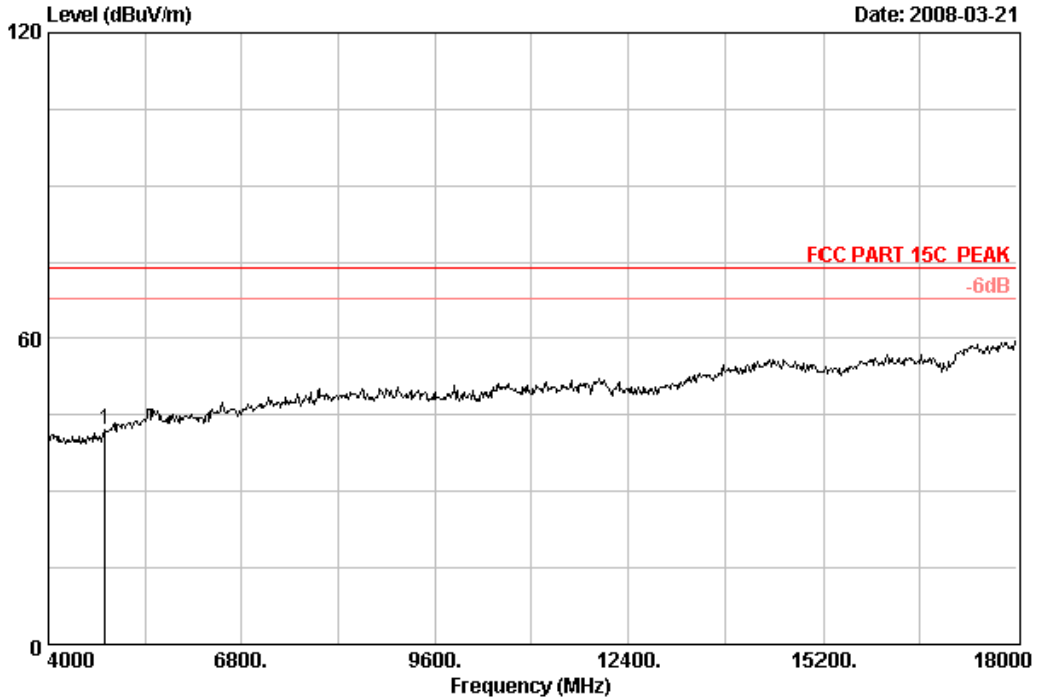
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH1:2412MHz Tx

	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4824.00	34.02	10.55	34.49	32.01	42.09	74.00	31.91	Peak

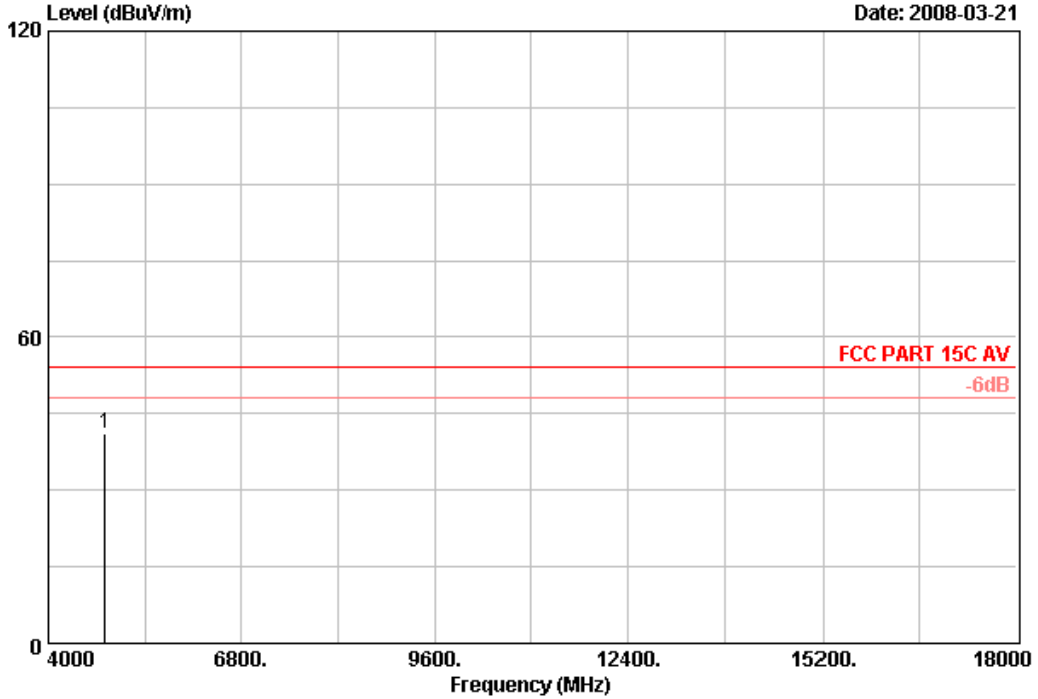
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4824.00	34.02	10.55	34.49	31.01	41.09	54.00	12.91	Average

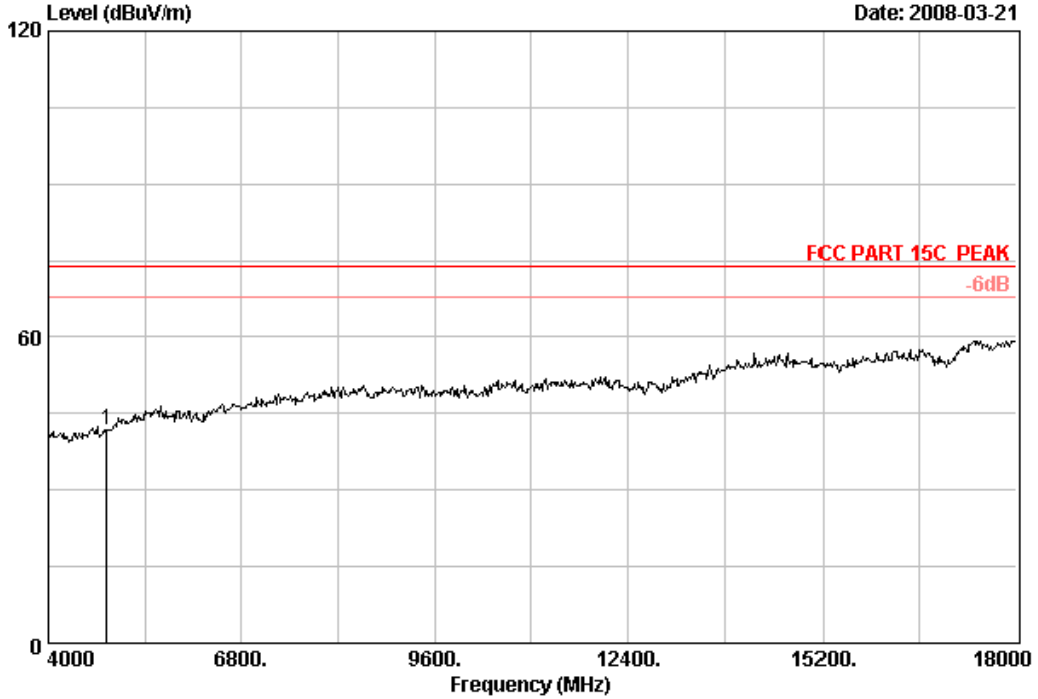
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 157
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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	31.60	41.74	74.00	32.26	Peak	

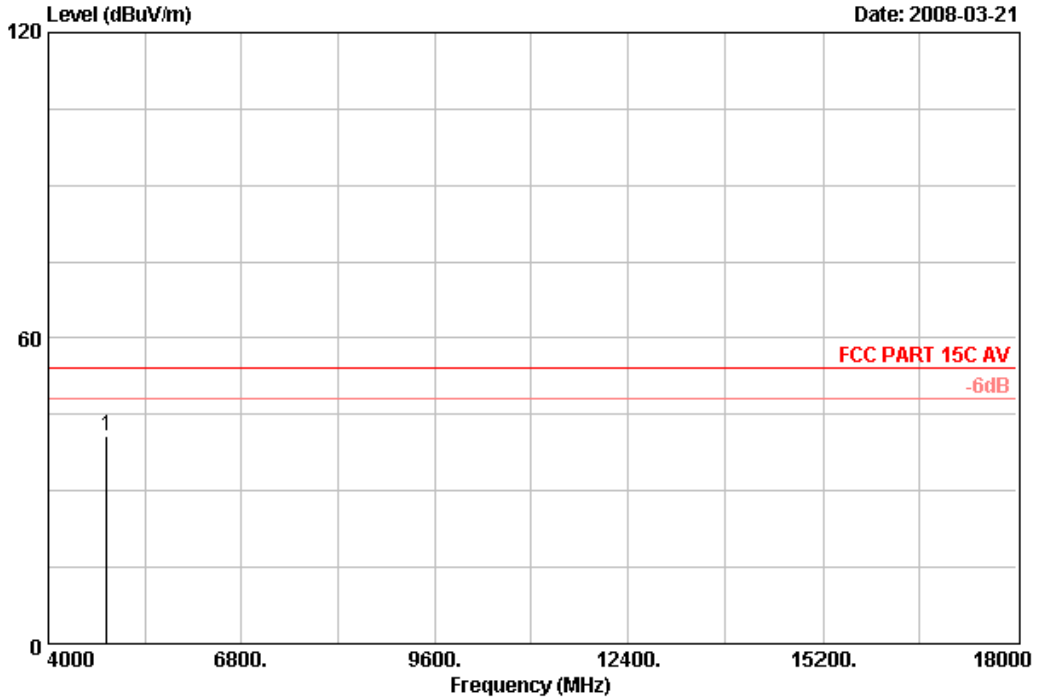
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 158 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 158
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4844.00	34.07	10.56	34.49	30.68	40.82	54.00	13.18	Average

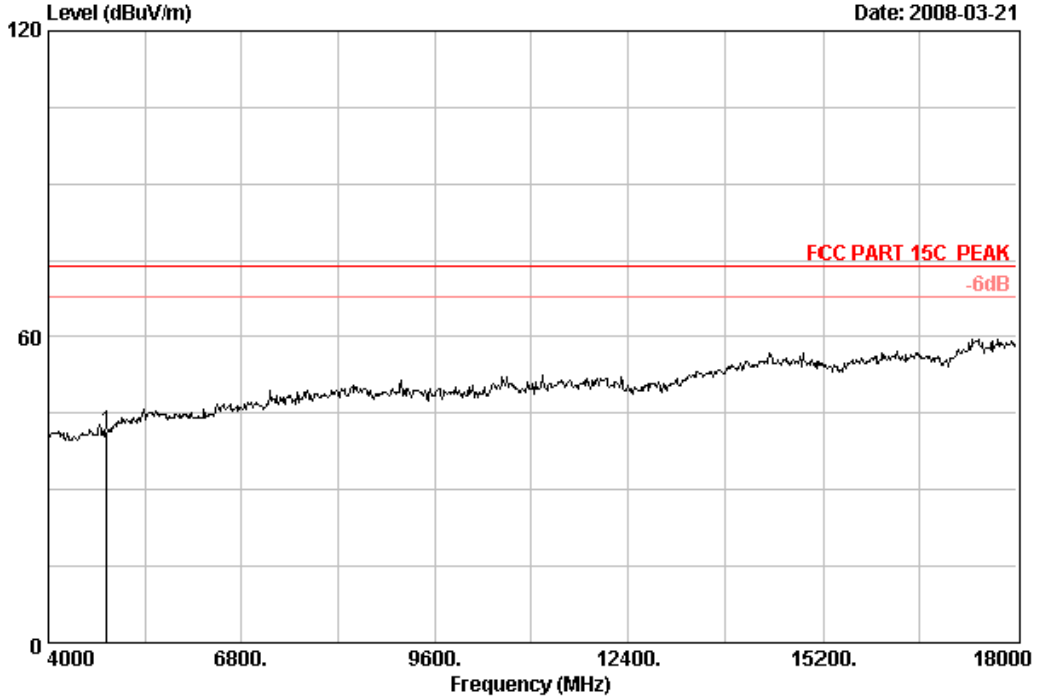
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 159 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH1:2422MHz Tx

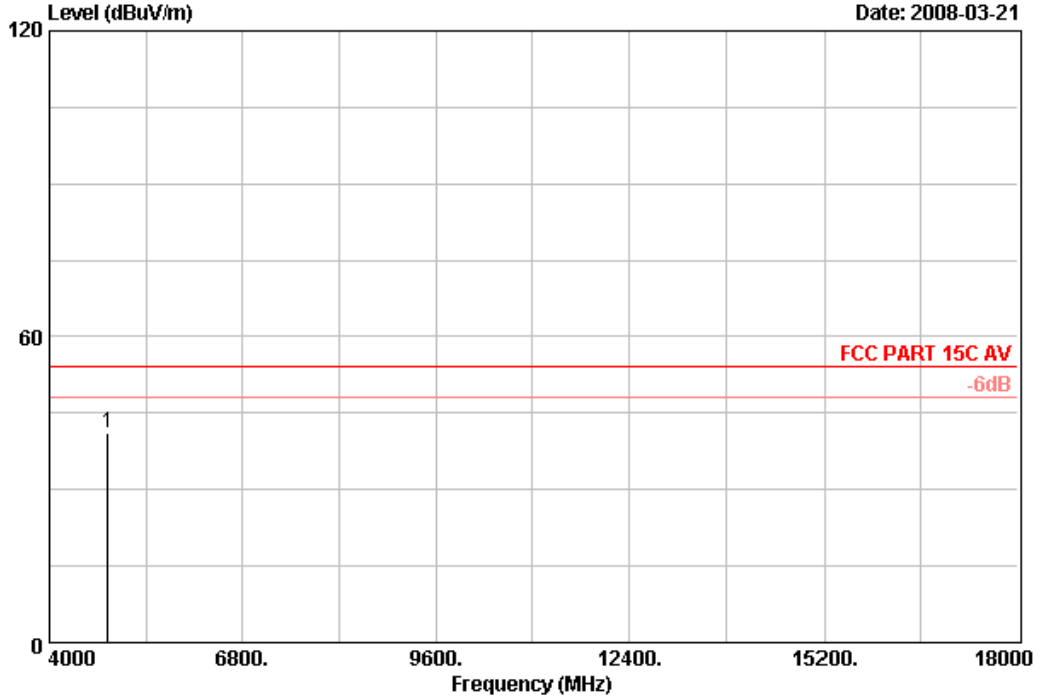
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4844.00	34.07	10.56	34.49	31.41	41.55	74.00	32.45	Peak	

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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 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\ACS8Q347.EMI (190)



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4844.00	34.07	10.56	34.49	30.97	41.11	54.00	12.89	Average

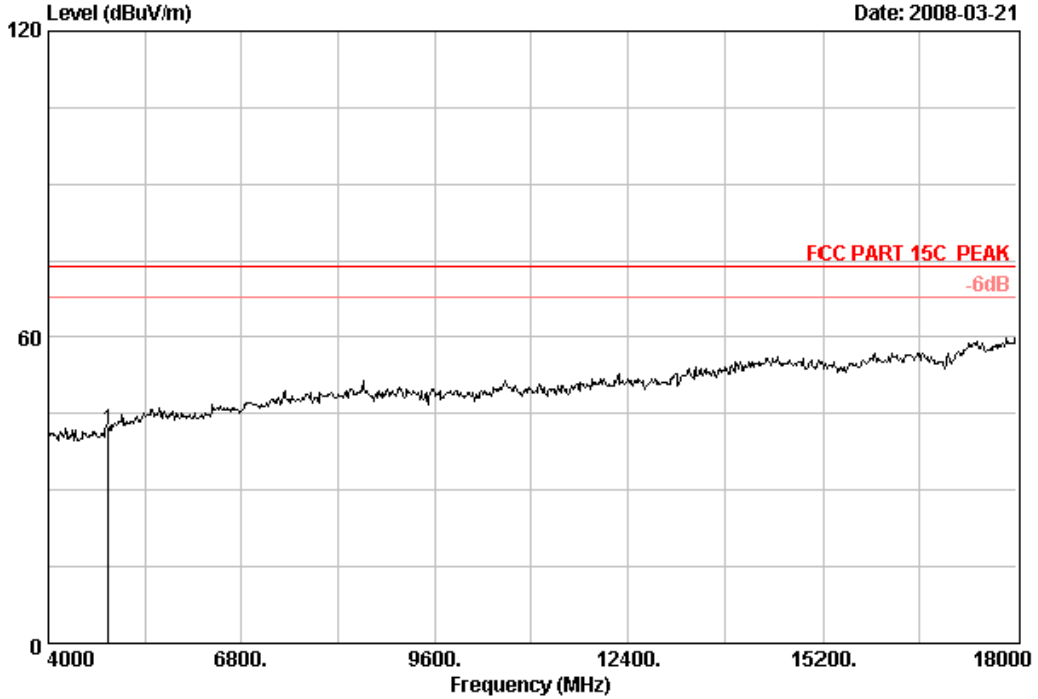
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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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: 161 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 161
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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	31.51	41.75	74.00	32.25	Peak	

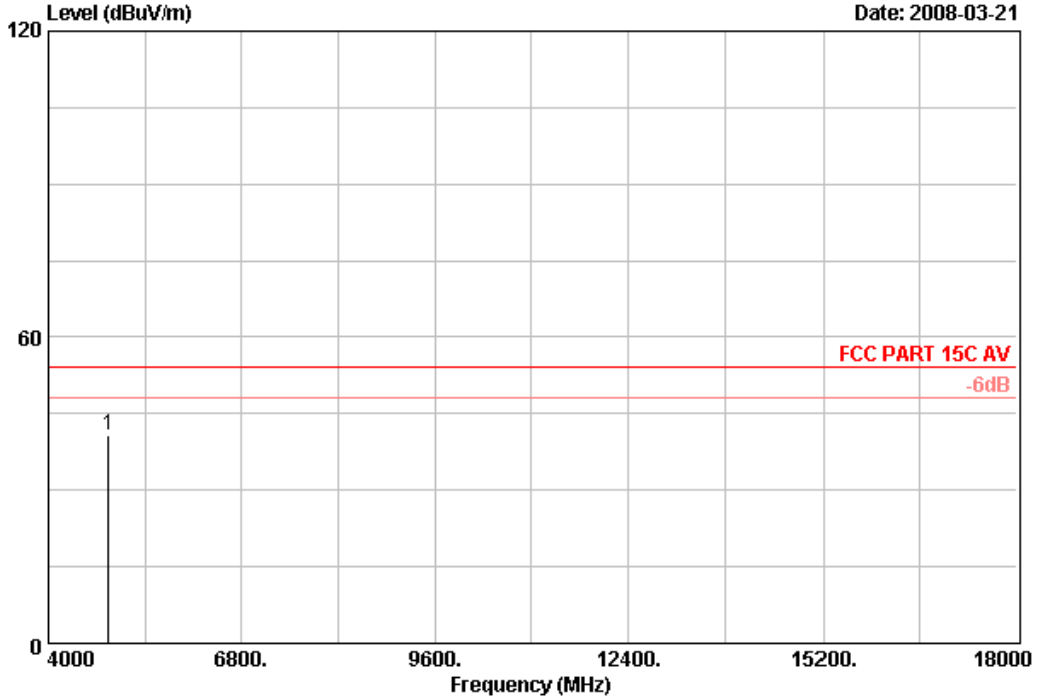
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 162 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m Chamber Data no. : 162
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH4:2437MHz 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	4874.00	34.16	10.56	34.48	30.52	40.76	54.00	13.24	Average

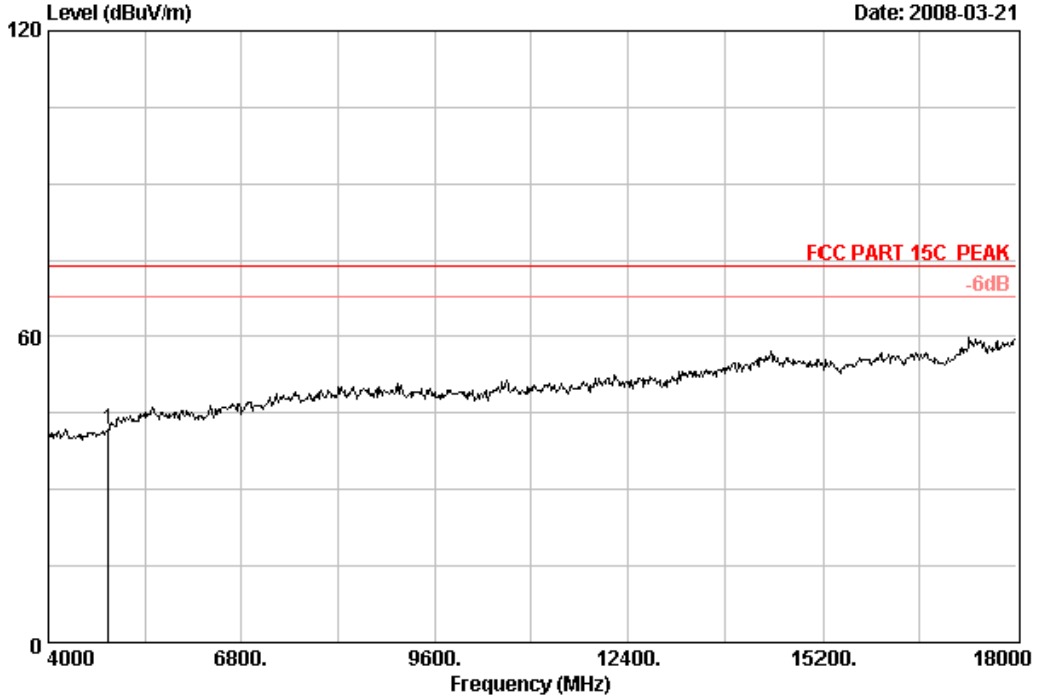
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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 ShenZhen Science & Industry Park
 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\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH4:2437MHz Tx

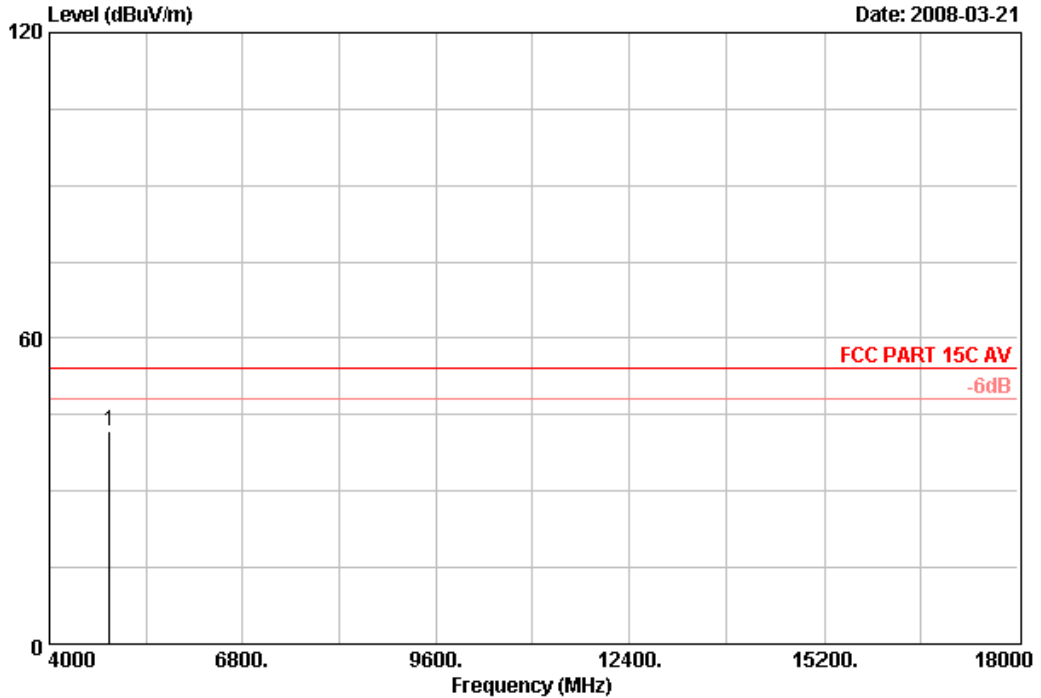
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
-----	1	4874.00	34.16	10.56	34.48	31.43	41.67	74.00	32.33	Peak

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
 Postcode:518057

Data: 164 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)



Site no. : 3m 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 Router M/N:TL-WR941ND
 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	31.43	41.67	54.00	12.33	Average	

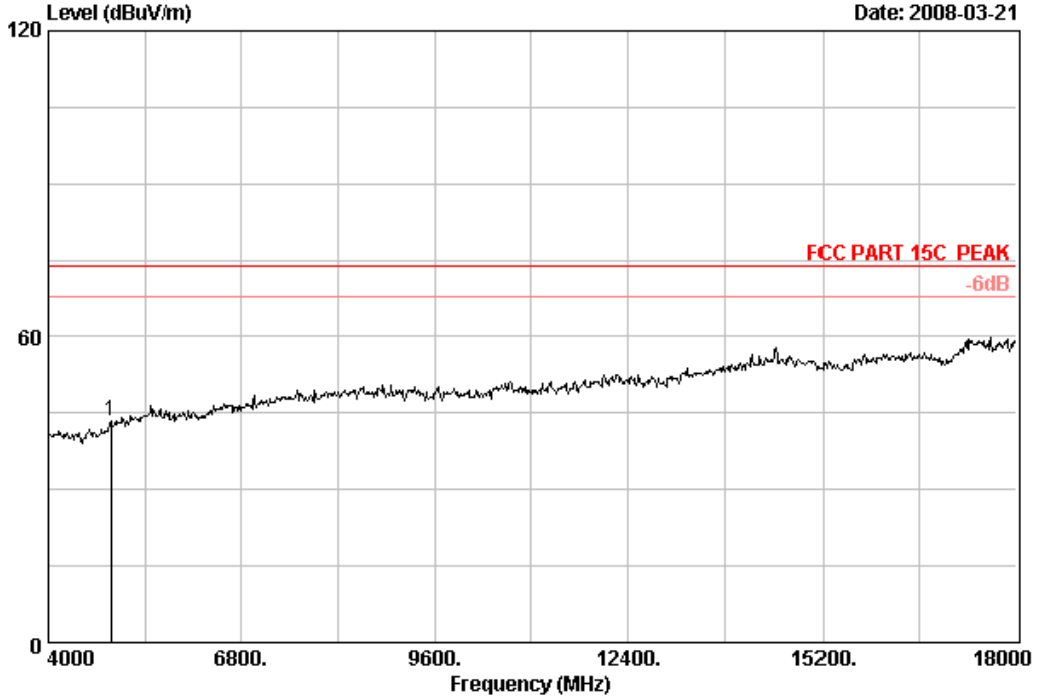
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 165
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 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	33.00	43.35	74.00	30.65	Peak	

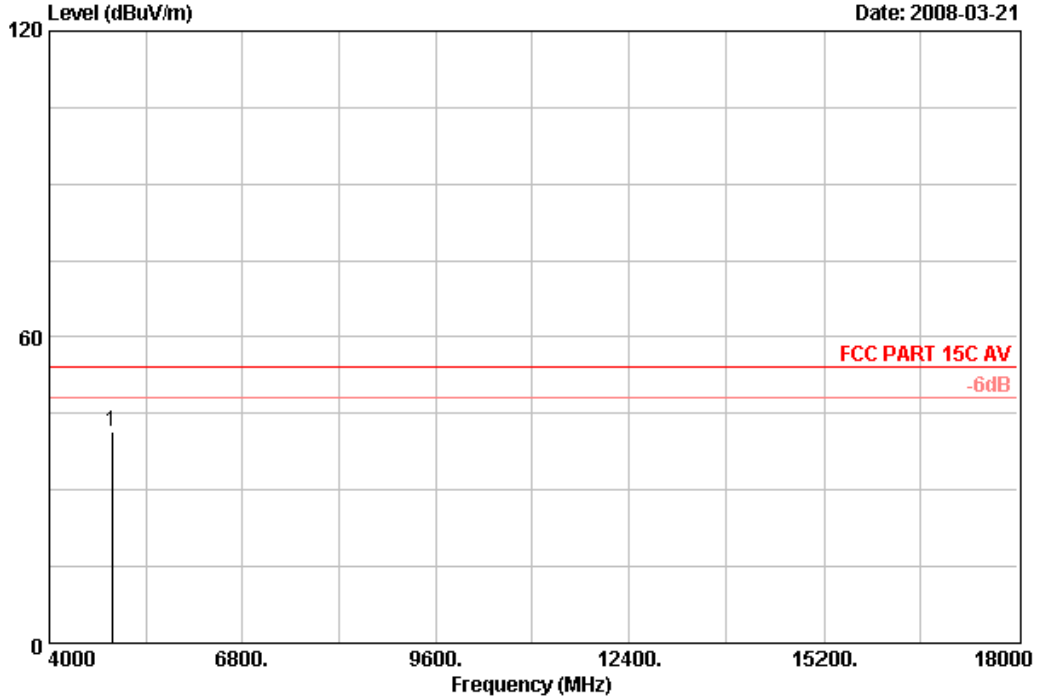
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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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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Date: 2008-03-21



Site no. : 3m Chamber Data no. : 166
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n 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	4904.00	34.25	10.58	34.48	31.24	41.59	54.00	12.41	Average

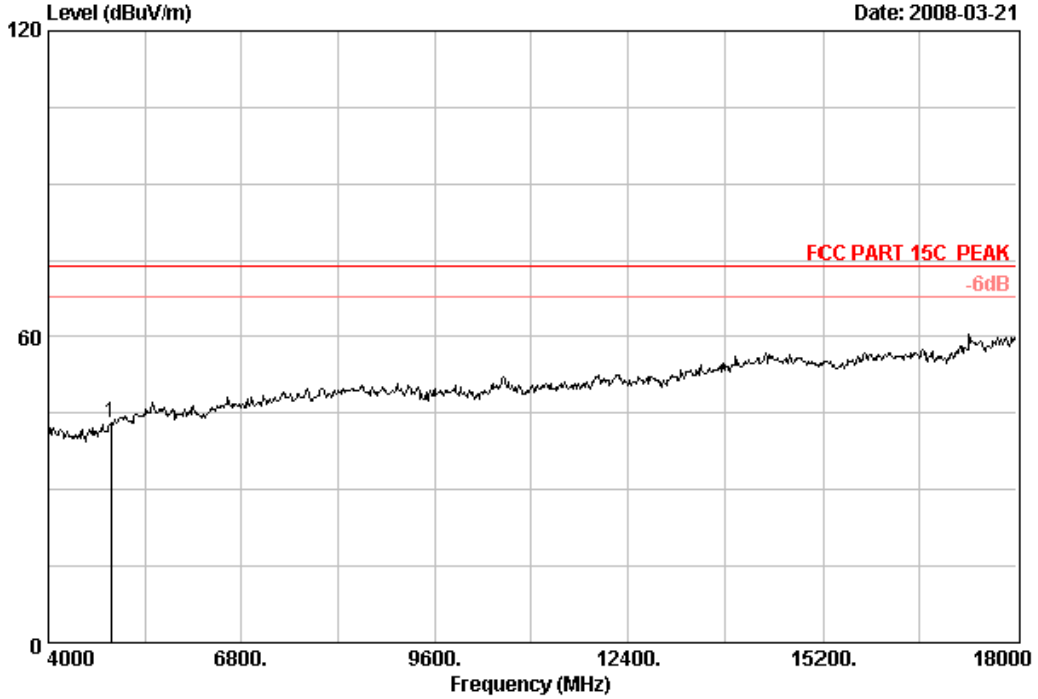
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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

Data: 167 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 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	32.78	43.13	74.00	30.87	Peak	

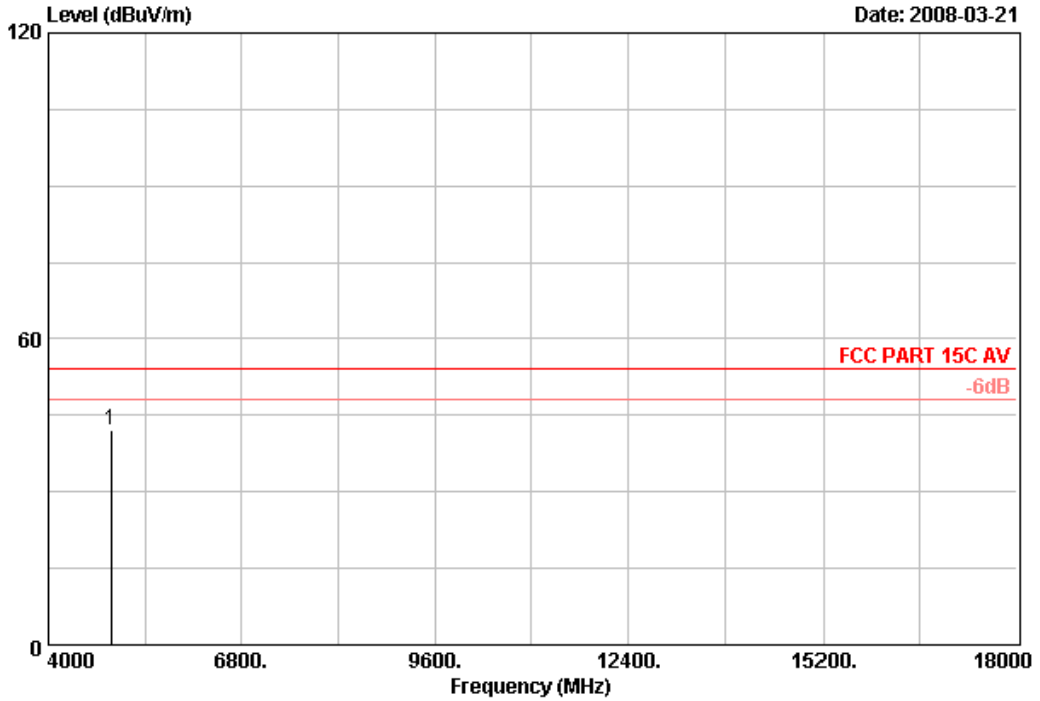
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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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: 168 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (190)

Date: 2008-03-21



Site no. : 3m 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 Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH7:2452MHz Tx

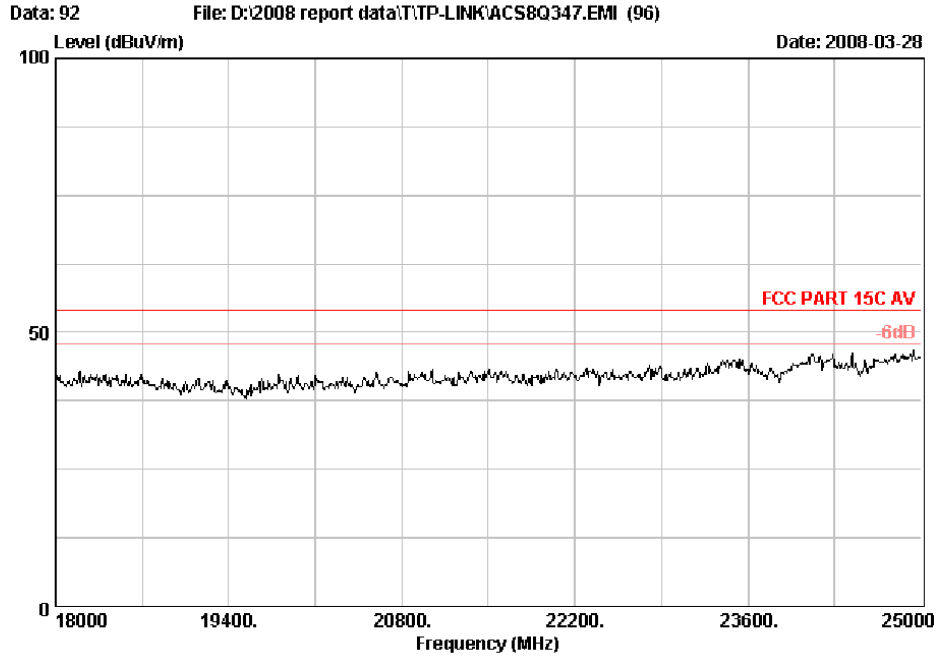
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
-----	1	4904.00	34.25	10.58	34.48	31.70	42.05	54.00	11.95	Average

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.

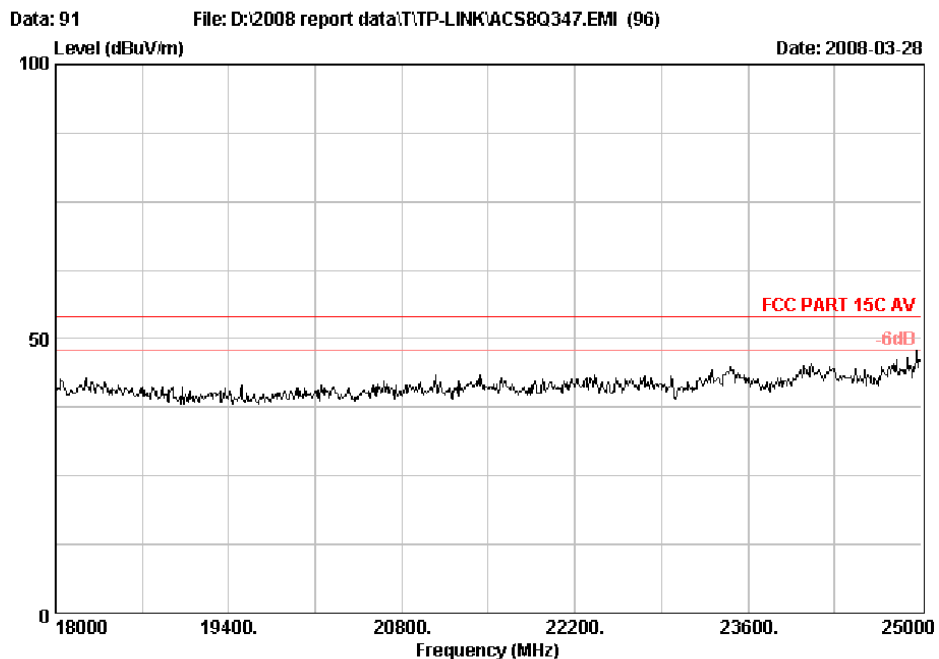
Frequency: 18GHz~25GHz



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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. : 92
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz Tx

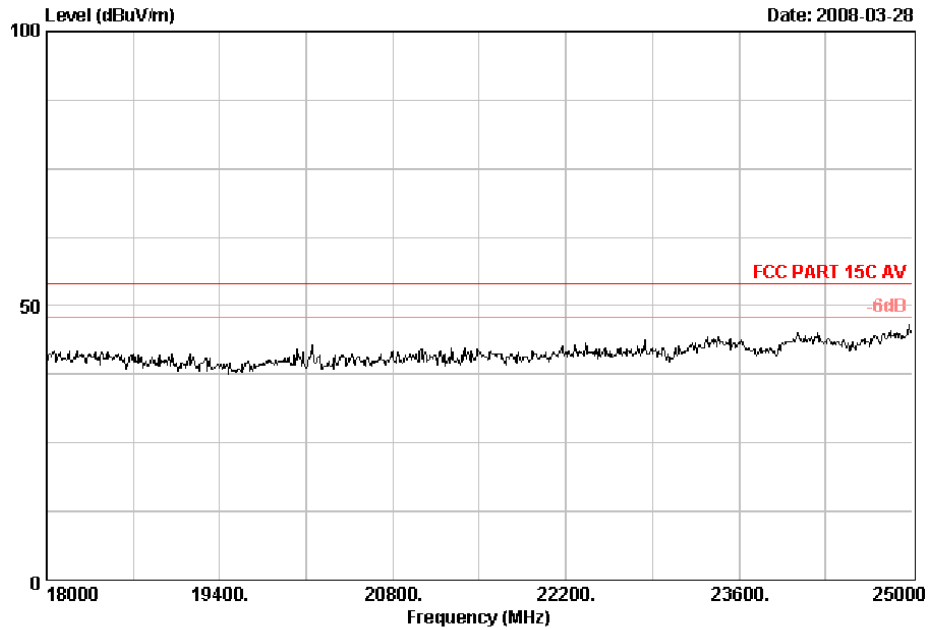


Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz Tx



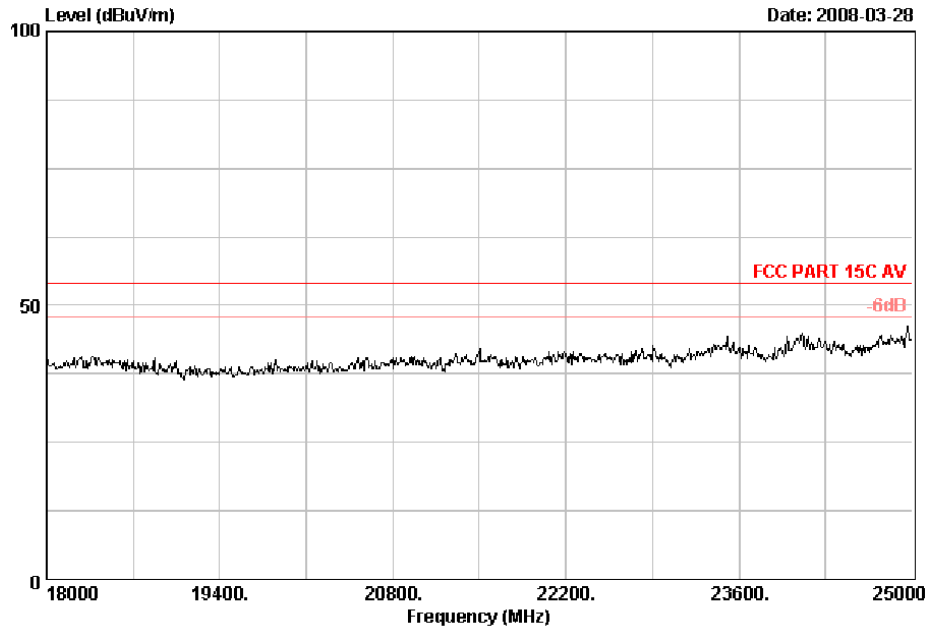
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 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
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Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx

Data: 94 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

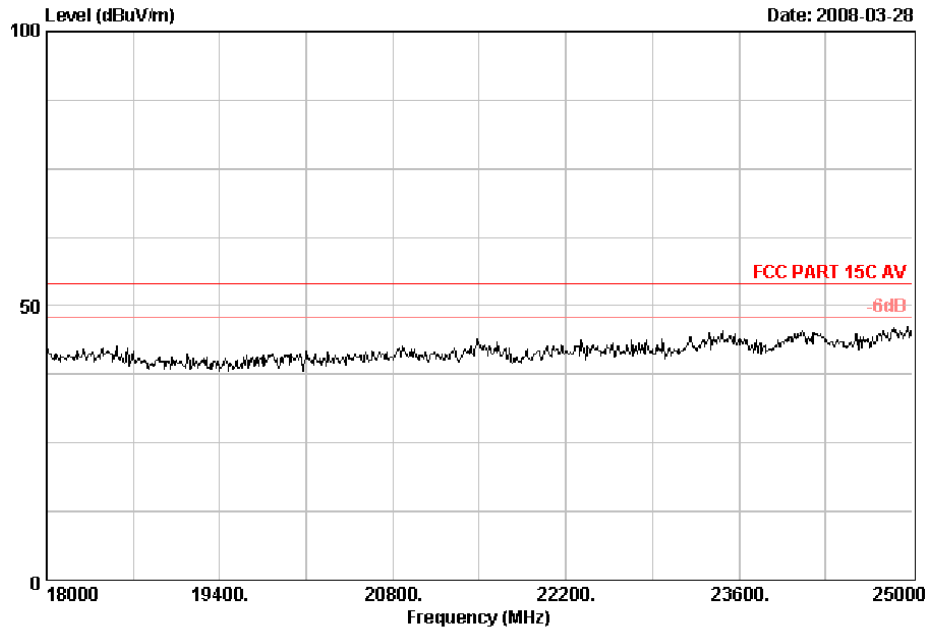


Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH6:2437MHz Tx



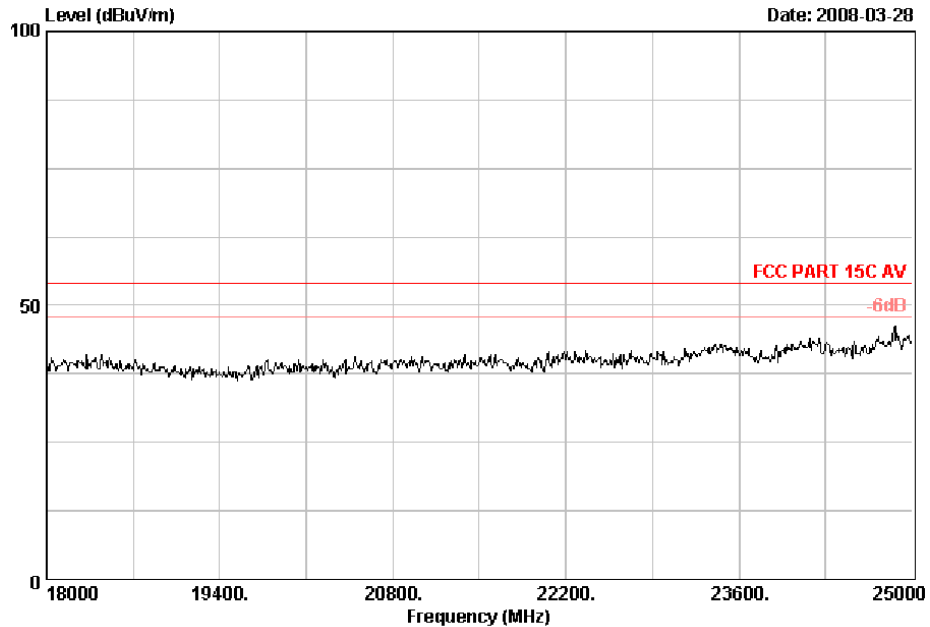
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 Noutou, ShenZhen, GuangDong, China
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Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx

Data: 95 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

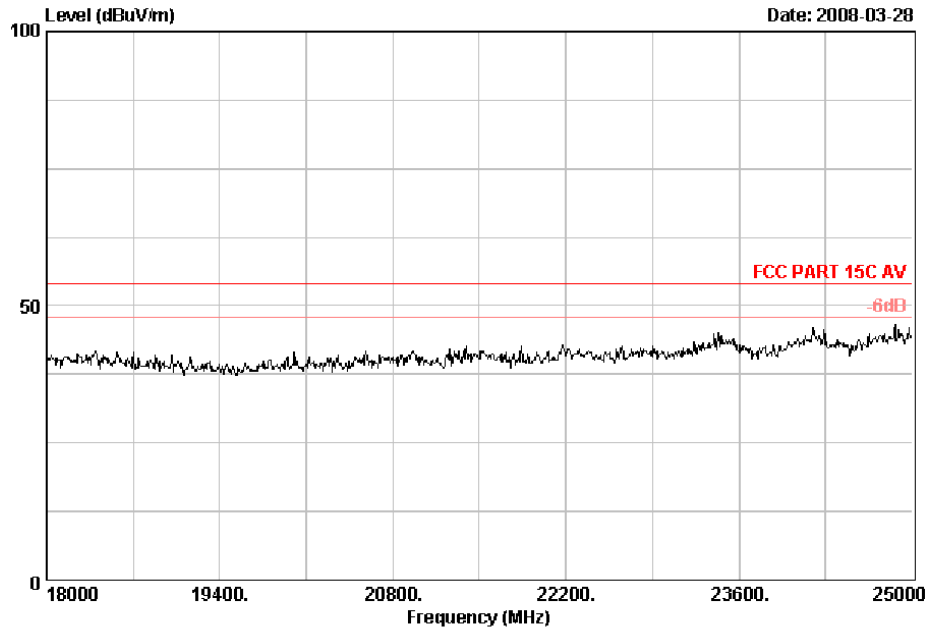


Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz Tx



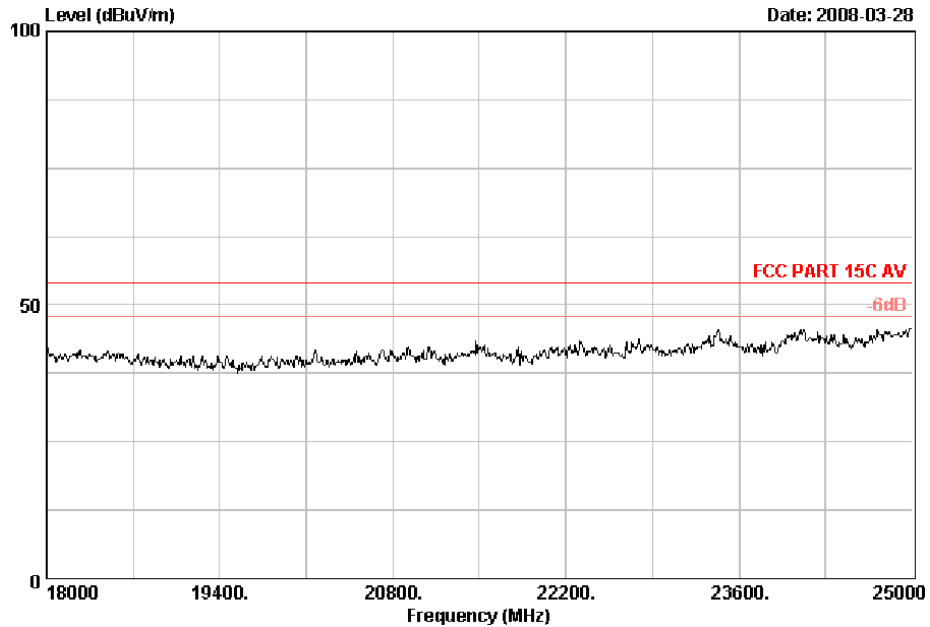
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 Noutou, ShenZhen, GuangDong, China
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 Postcode:518057

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Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz Tx

Data: 90 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

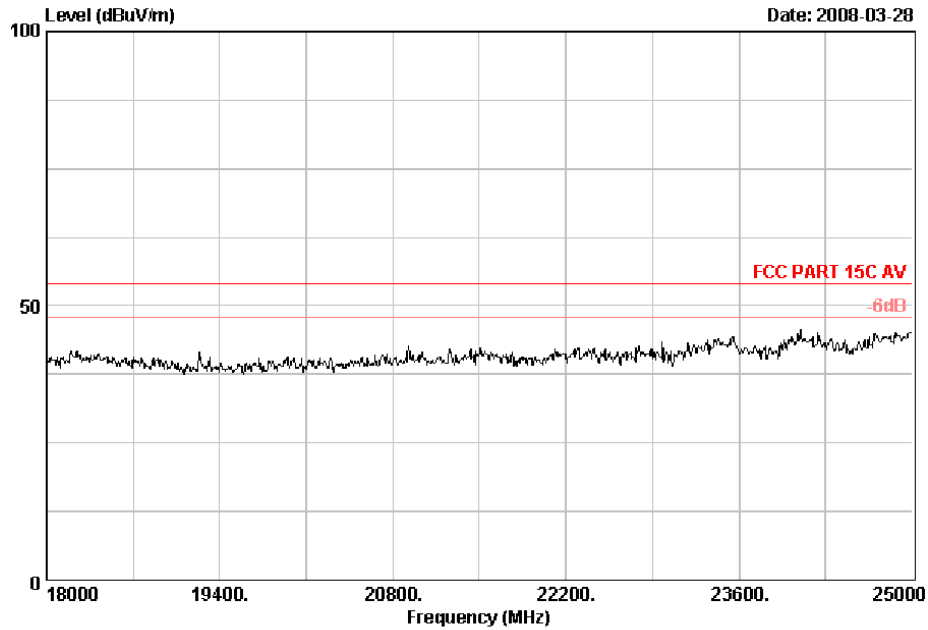


Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz Tx



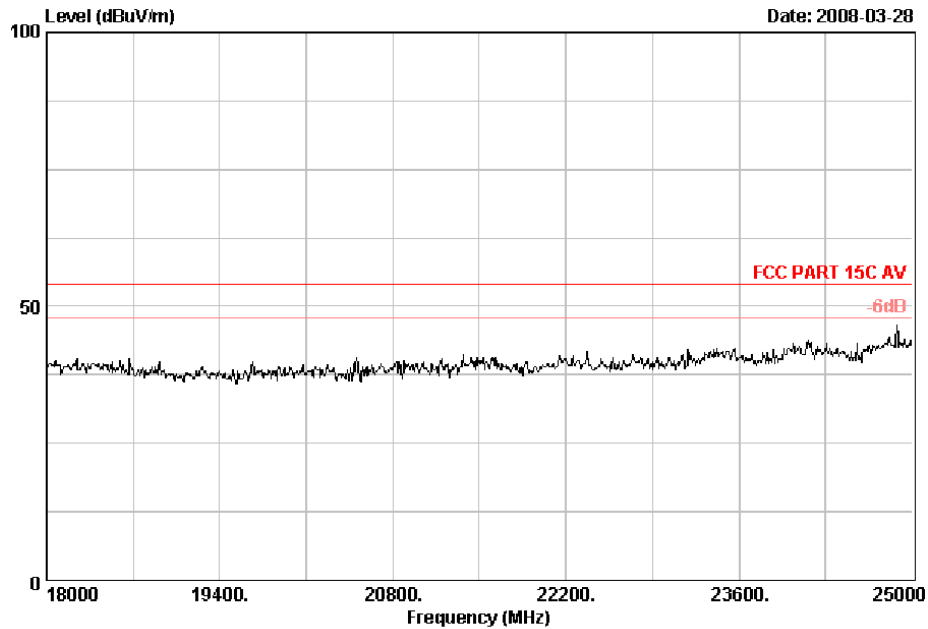
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 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 88 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)



Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH6:2437MHz Tx

Data: 87 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

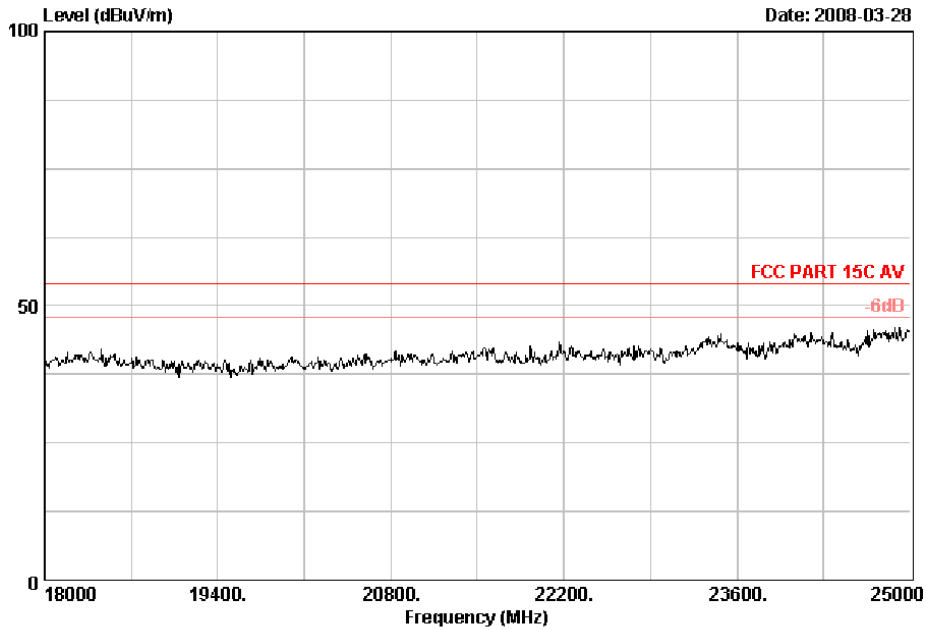


Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH6:2437MHz Tx



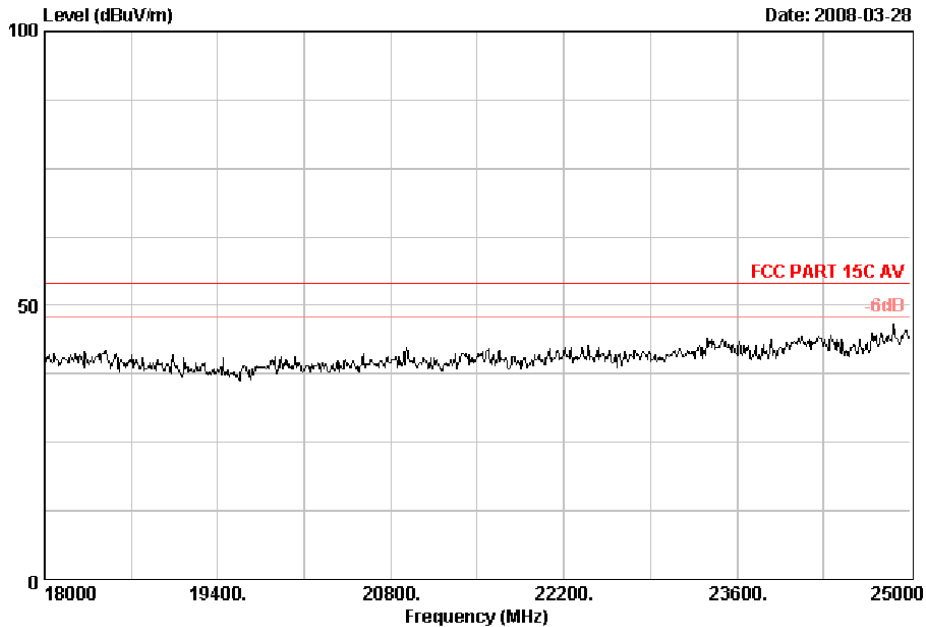
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 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
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 Postcode:518057

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Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz Tx

Data: 86 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

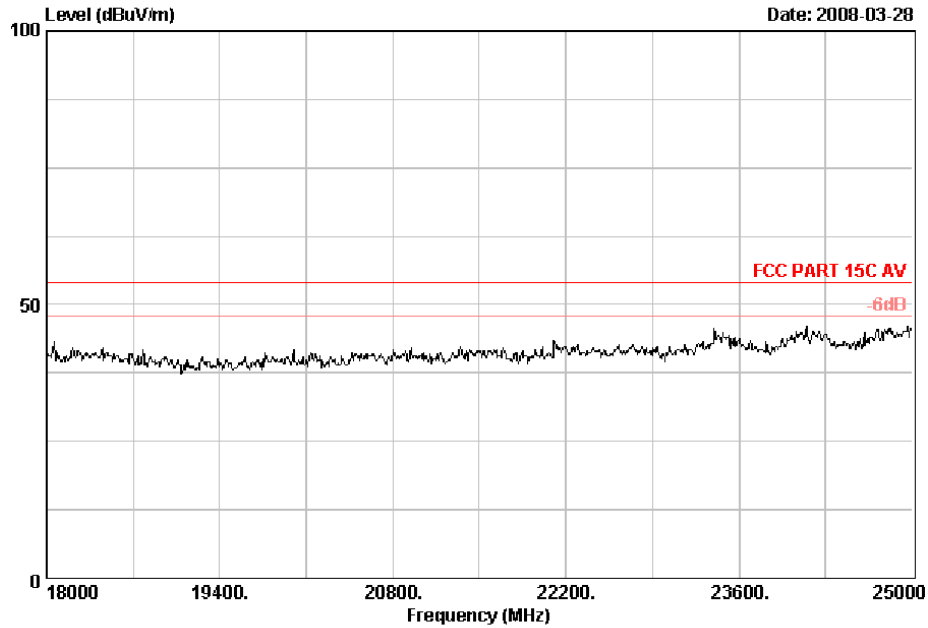


Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz Tx



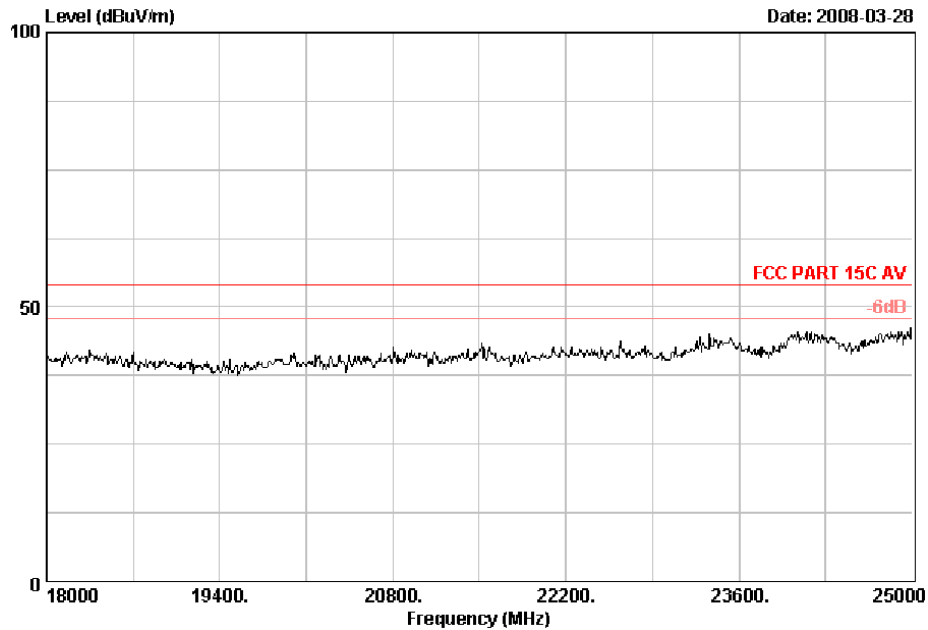
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 80 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96) Date: 2008-03-28



Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Router M/N:TL-WR941ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx
Memo : HT20

Data: 79 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96) Date: 2008-03-28

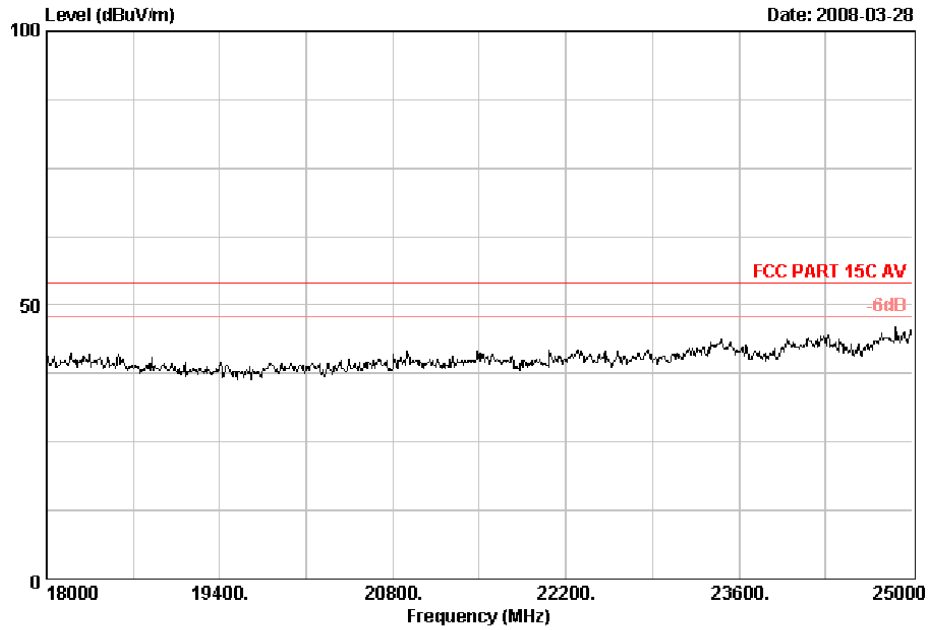


Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Router M/N:TL-WR941ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH1:2412MHz Tx
Memo : HT20



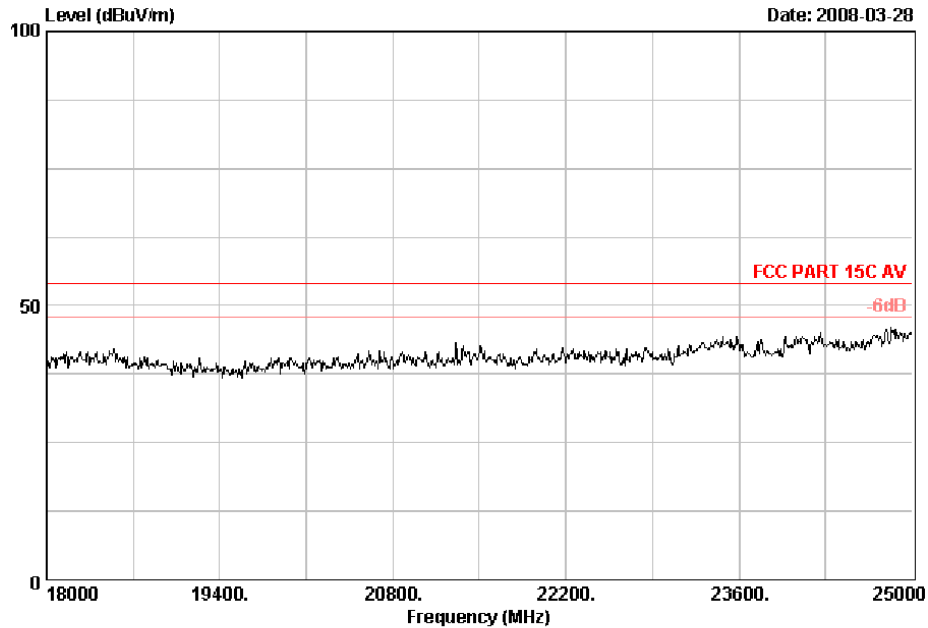
No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 81 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)



Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH6:2437MHz Tx
 Memo : HT20

Data: 82 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

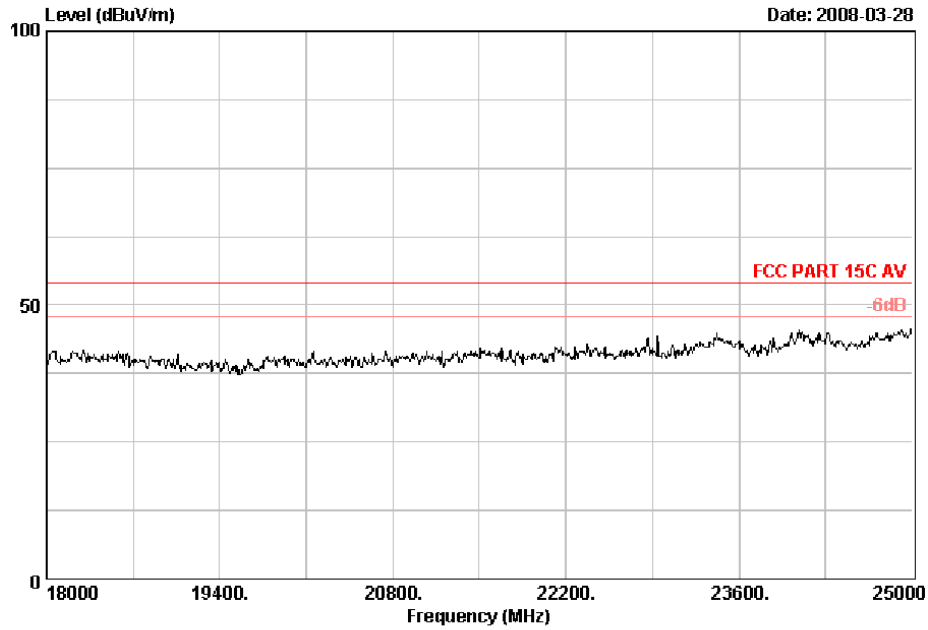


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH6:2437MHz Tx
 Memo : HT20



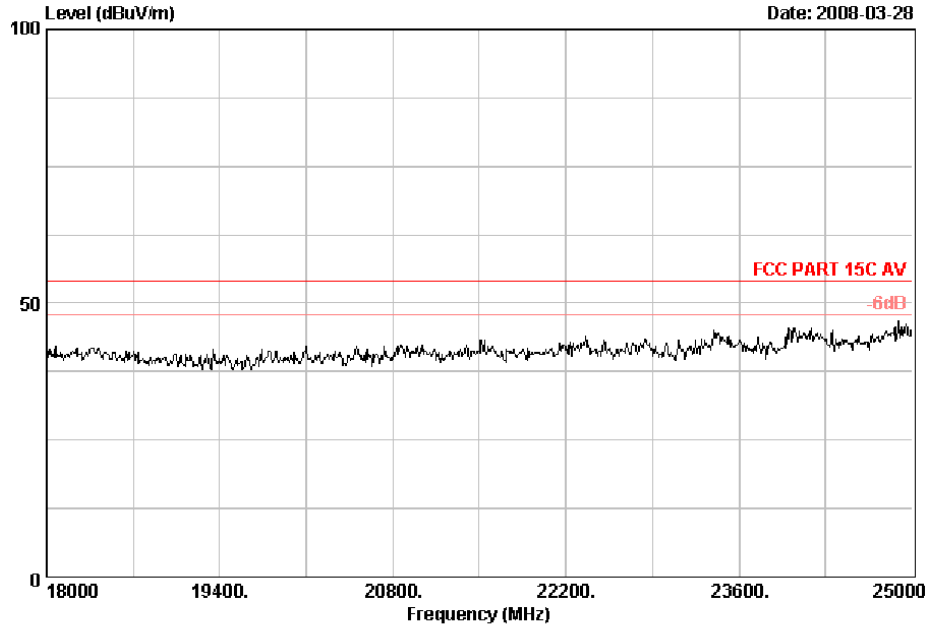
No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 84 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96) Date: 2008-03-28



Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH11:2462MHz Tx
 Memo : HT20

Data: 83 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96) Date: 2008-03-28

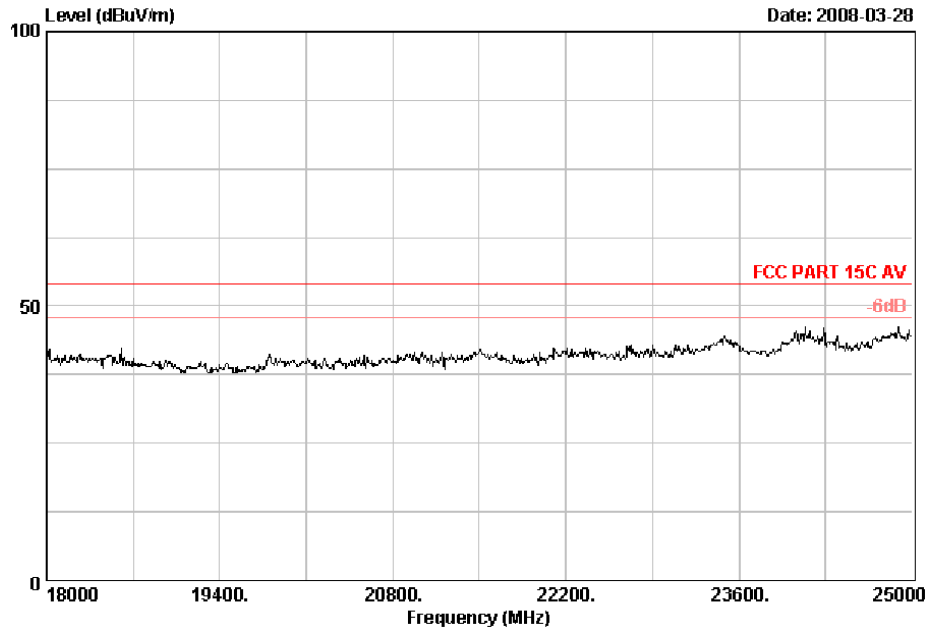


Site no. : 3m Chamber Data no. : 83
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH11:2462MHz Tx
 Memo : HT20



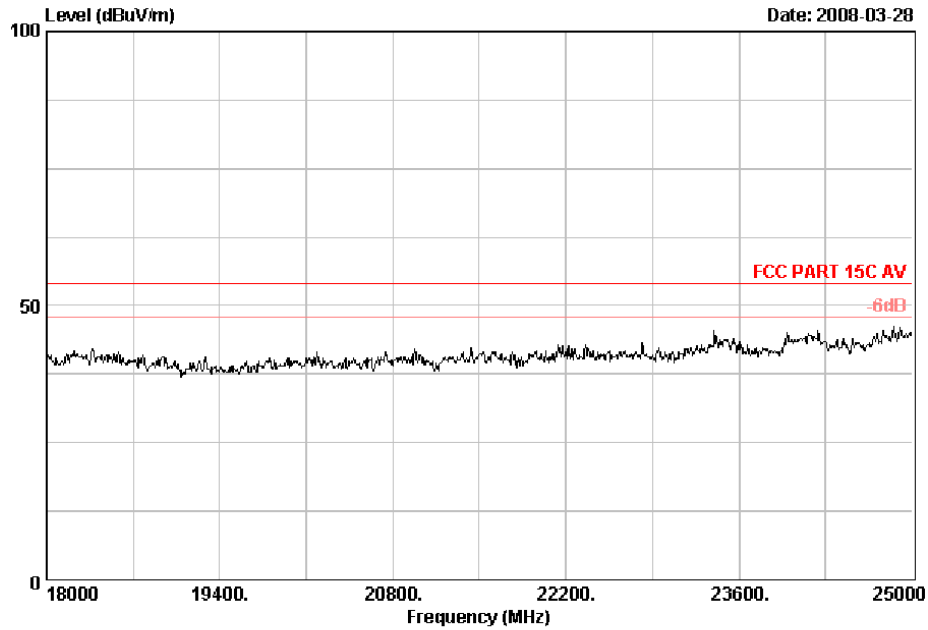
No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 73 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH1:2422MHz Tx
 Memo : HT40

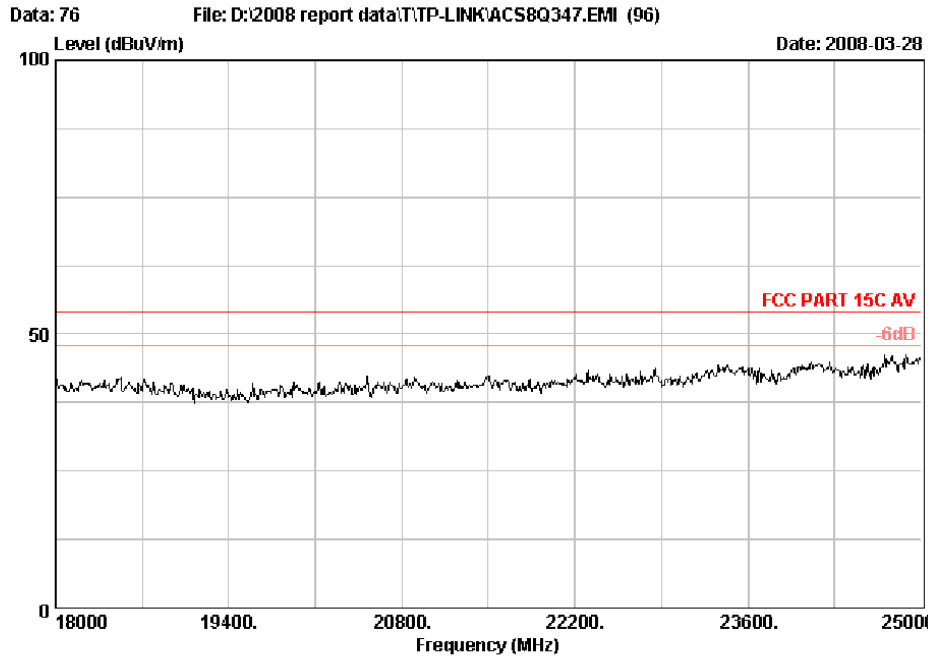
Data: 74 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)



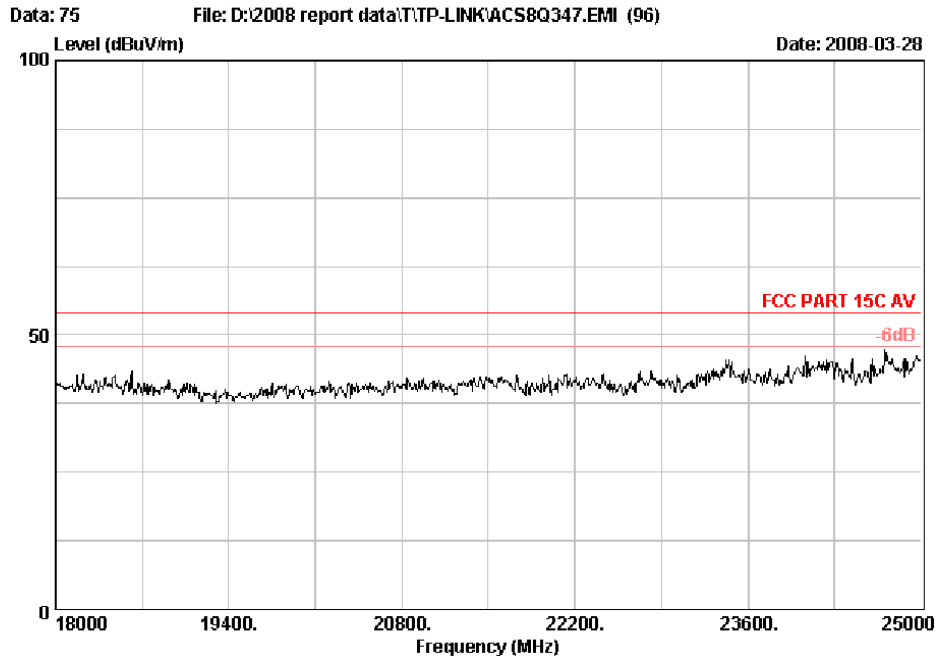
Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH1:2422MHz Tx
 Memo : HT40



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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. : 76
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH4:2437MHz Tx
 Memo : HT40

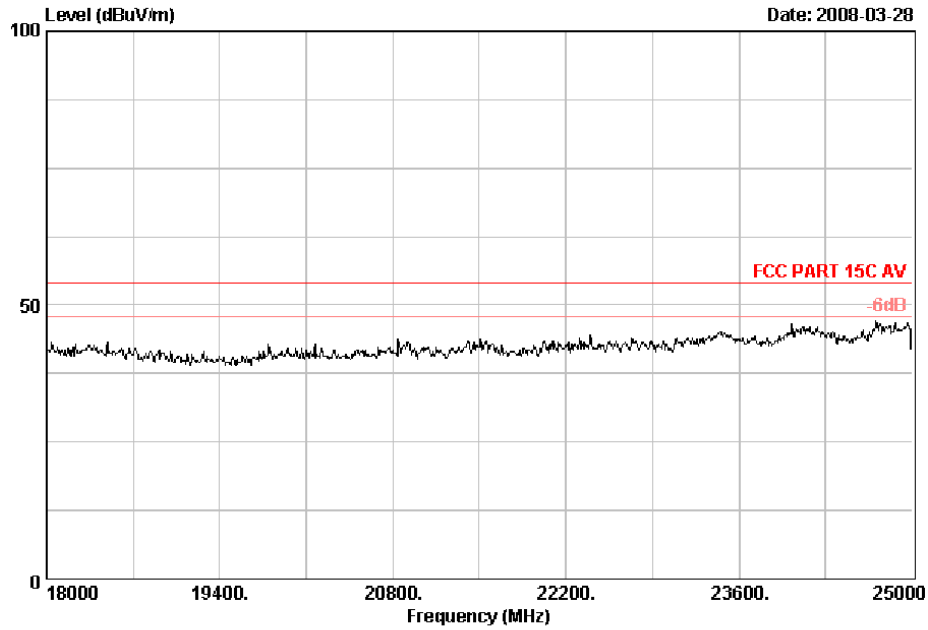


Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating : DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n CH4:2437MHz Tx
 Memo : HT40



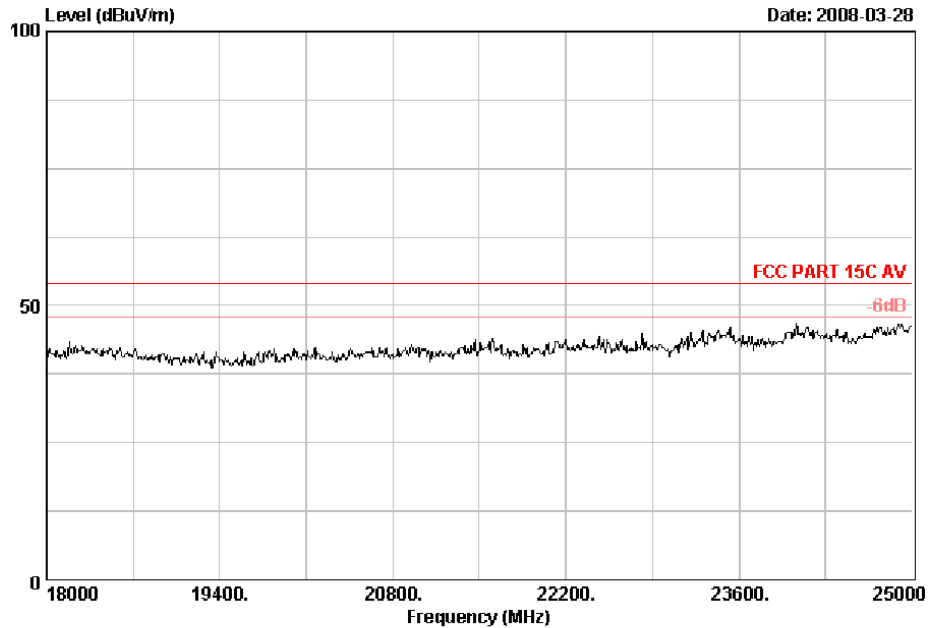
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 77 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)



Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Router M/N:TL-WR941ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx
Memo : HT40

Data: 78 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (96)

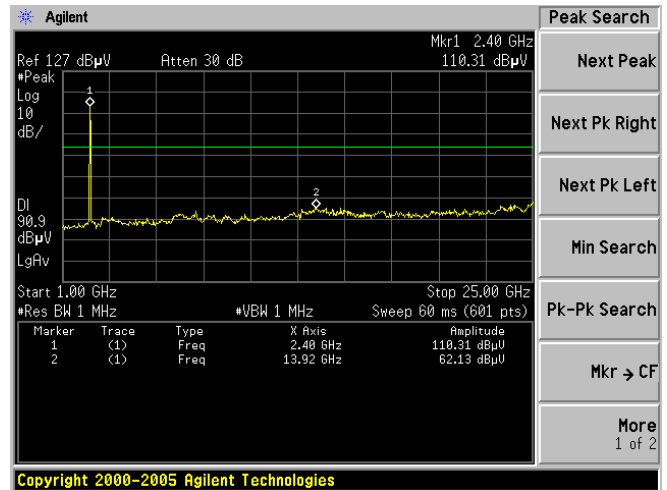
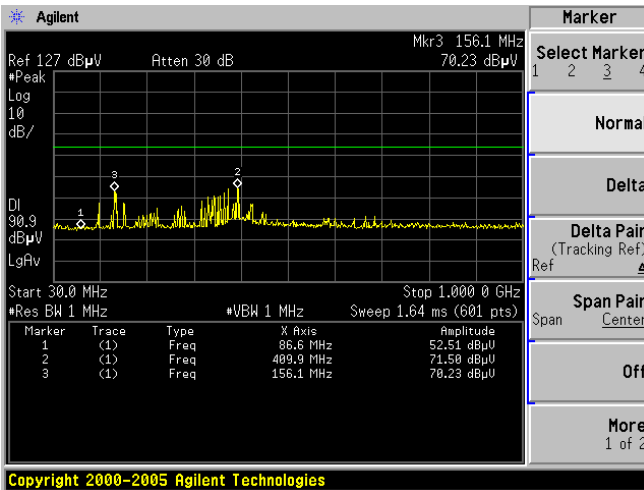


Site no. : 3m Chamber Data no. : 78
Dis. / Ant. : 3m Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Wireless N Router M/N:TL-WR941ND
Power Rating : DC 12 V From adapter 120V/60Hz
Test Mode : IEEE802.11n CH7:2452MHz Tx
Memo : HT40

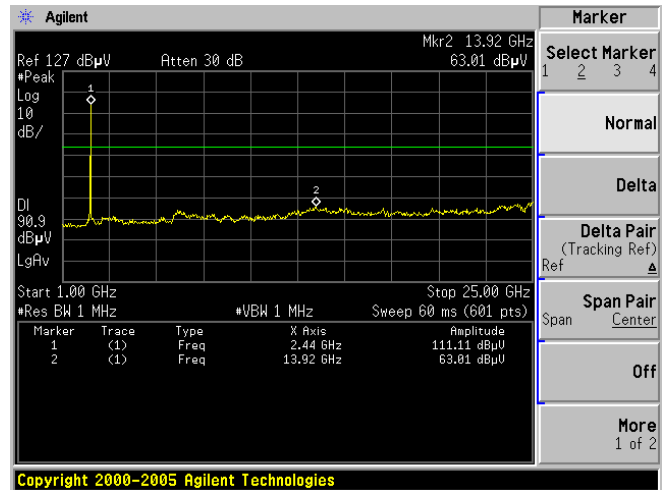
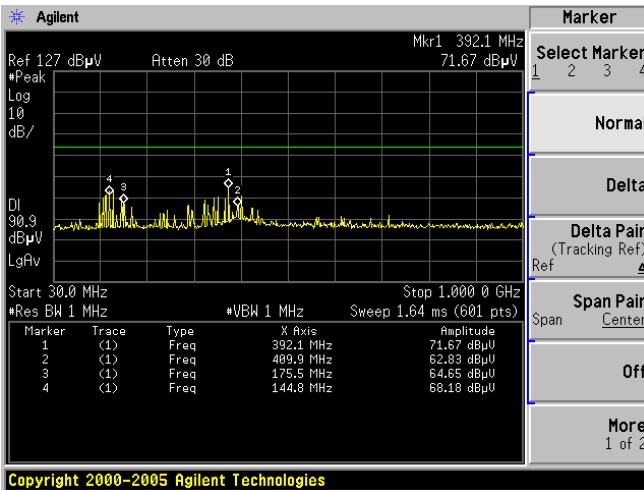
Conducted emission test data:

Test Mode: IEEE 802.11b TX

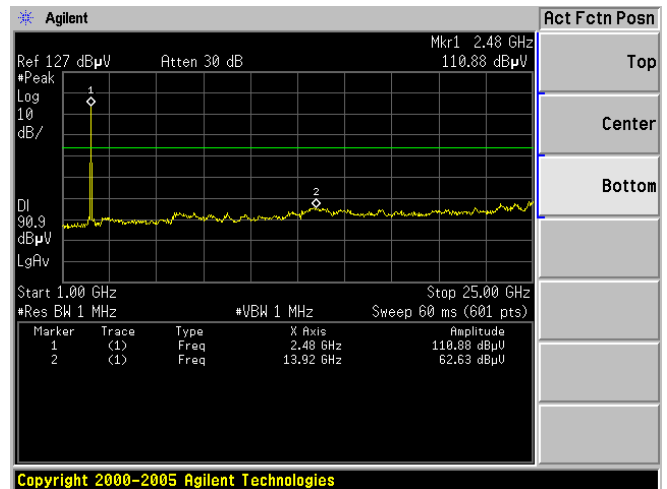
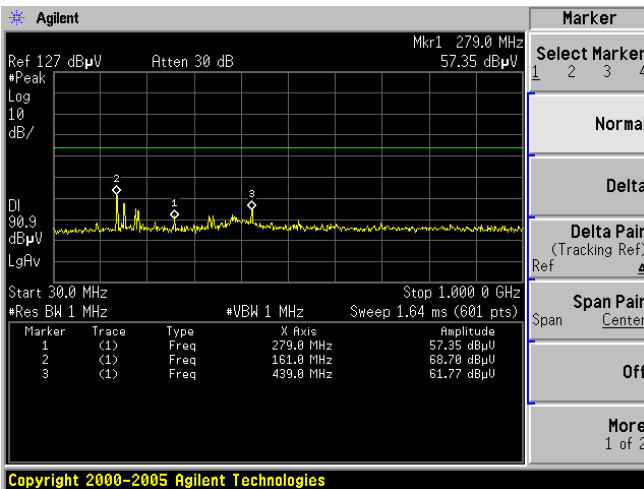
Test CH1: 2412MHz



Test CH6: 2437MHz

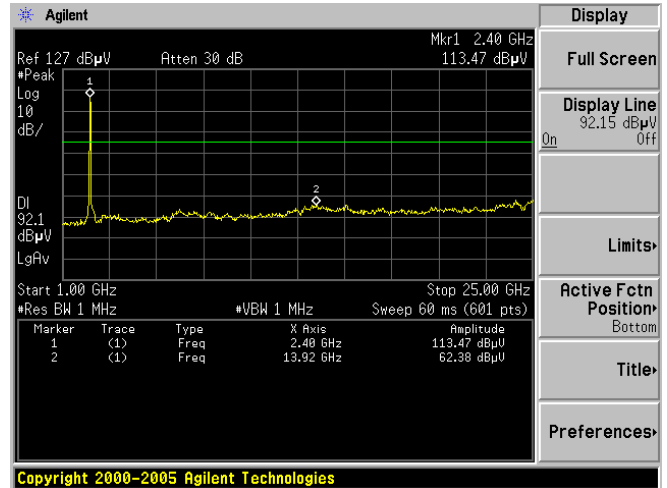
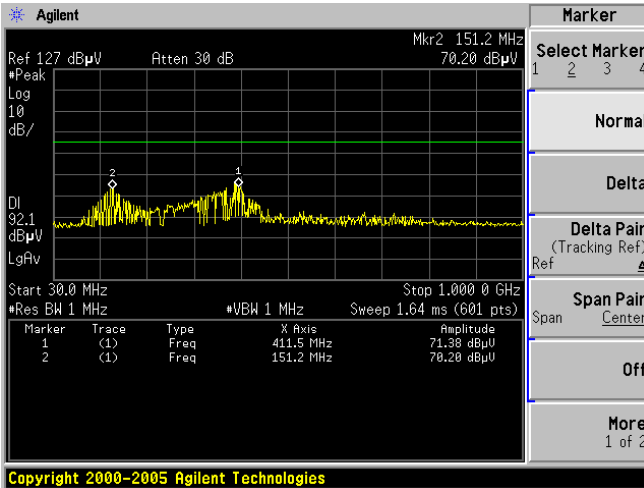


Test CH11: 2462MHz

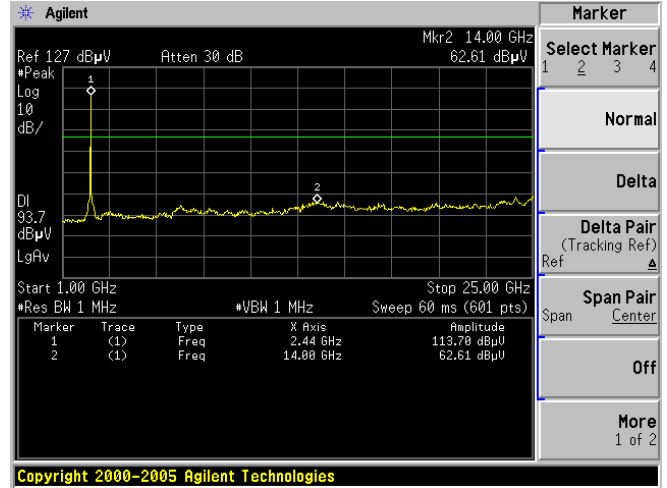
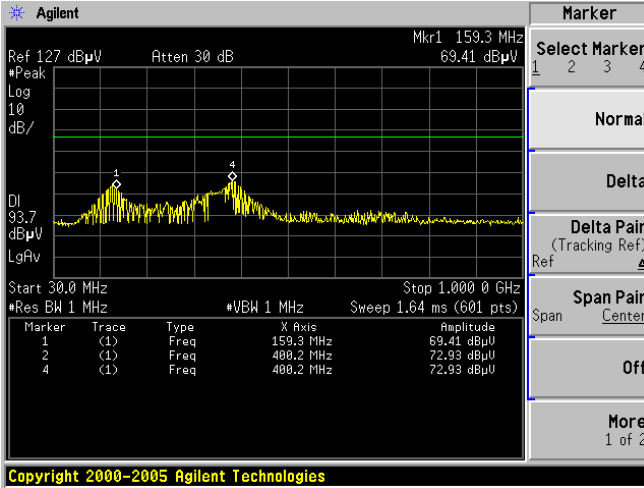


Test Mode: IEEE 802.11g TX

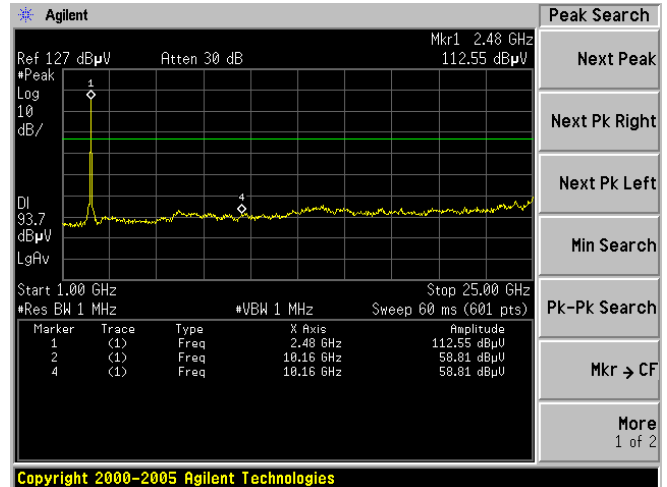
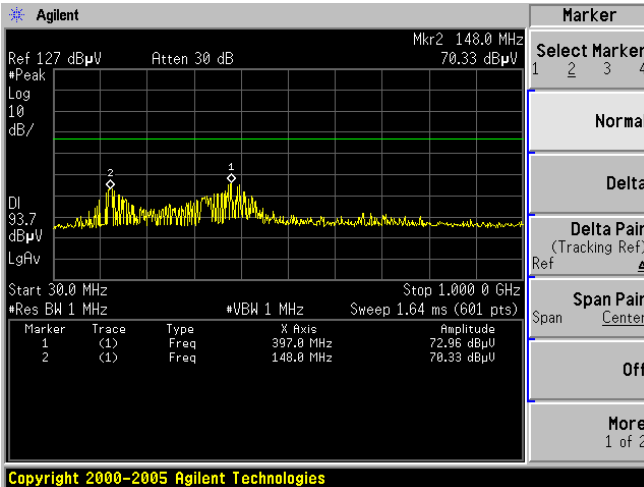
Test CH1: 2412MHz



Test CH6: 2437MHz

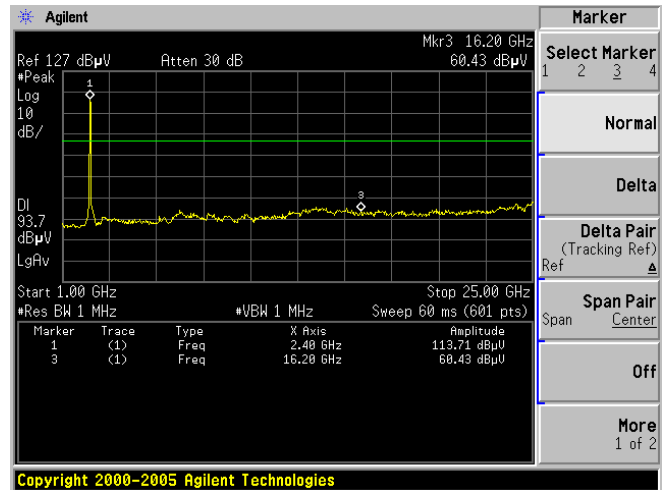
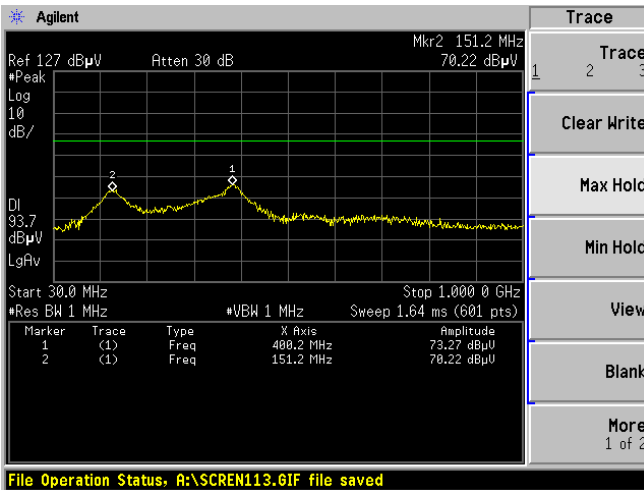


Test CH11: 2462MHz

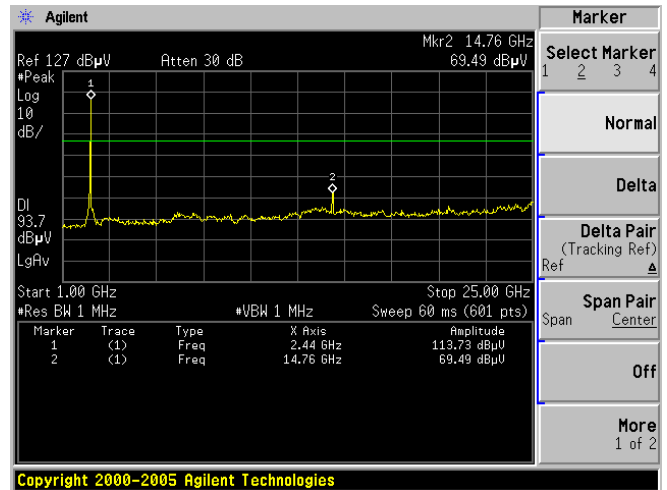
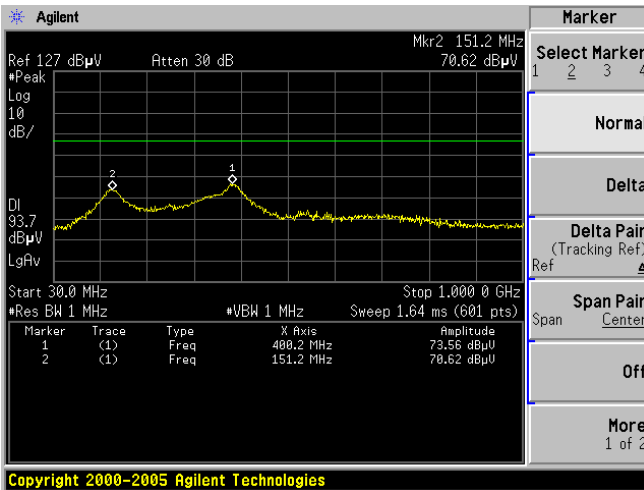


Test Mode: IEEE 802.11n TX (HT20)

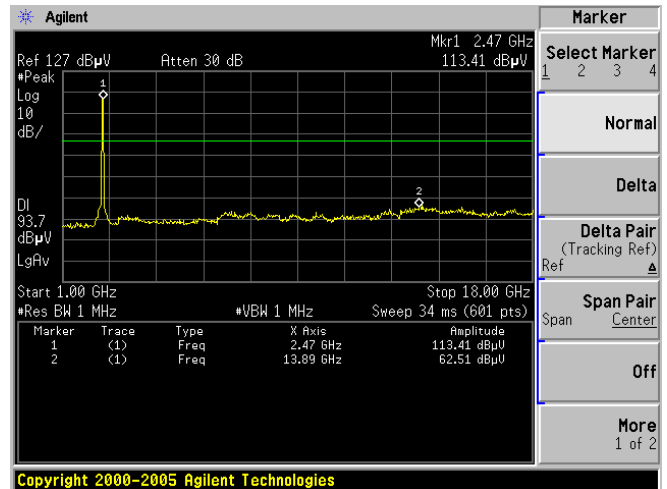
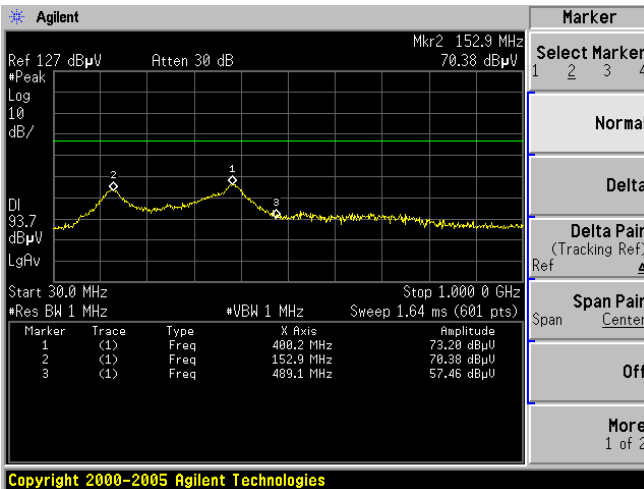
Test CH1: 2412MHz



Test CH6: 2437MHz

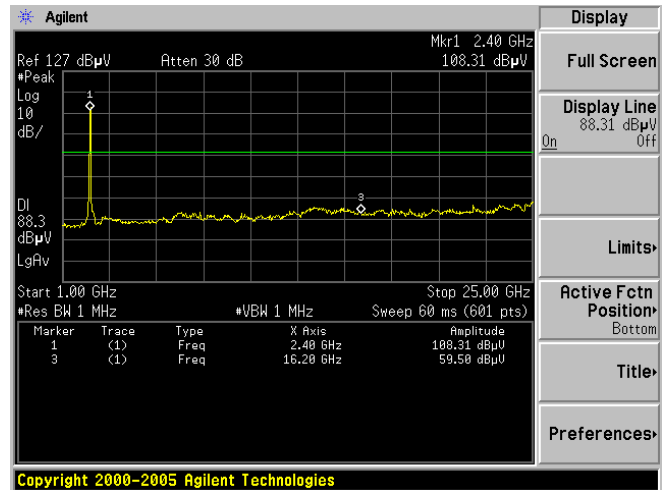
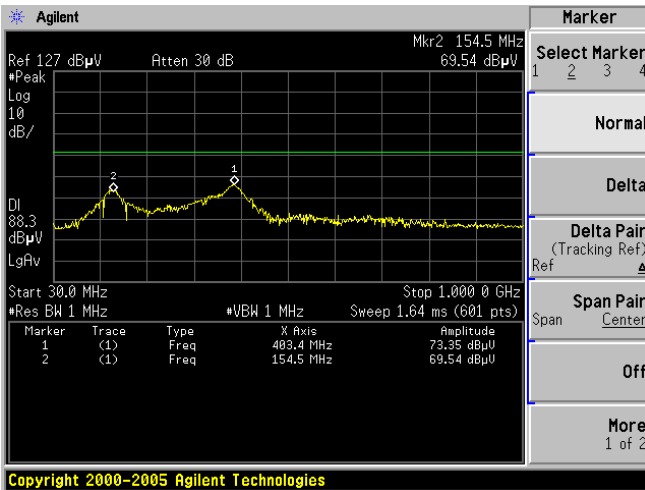


Test CH11: 2462MHz

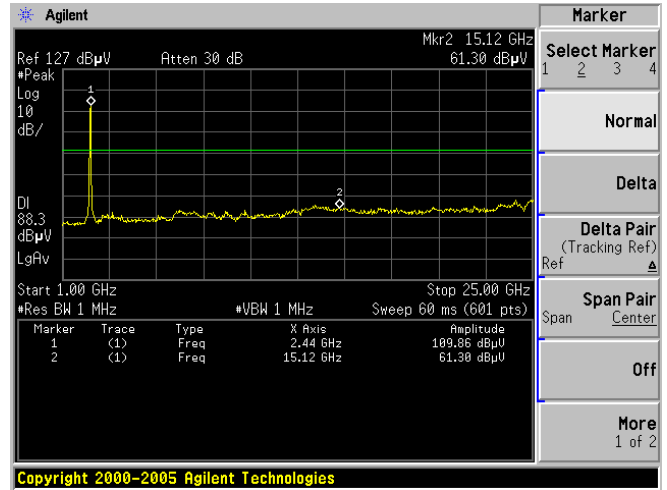
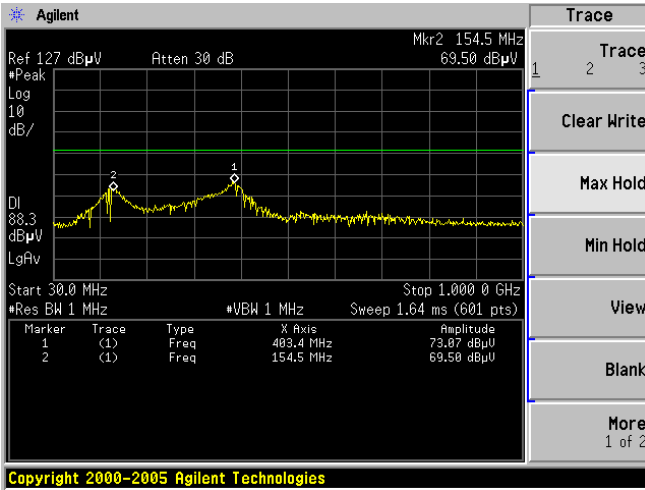


Test Mode: IEEE 802.11n TX (HT40)

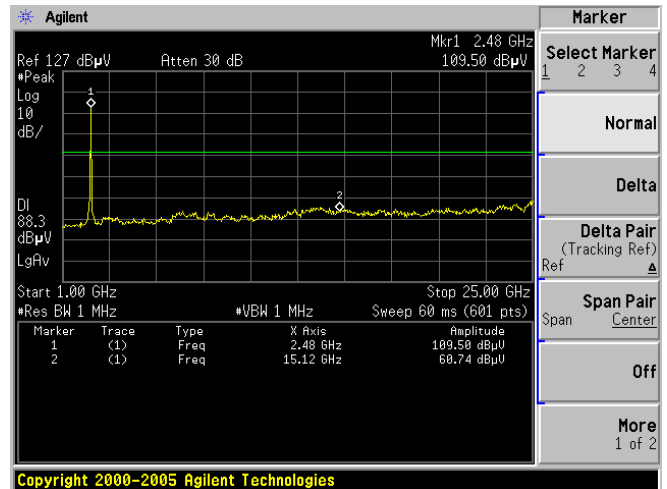
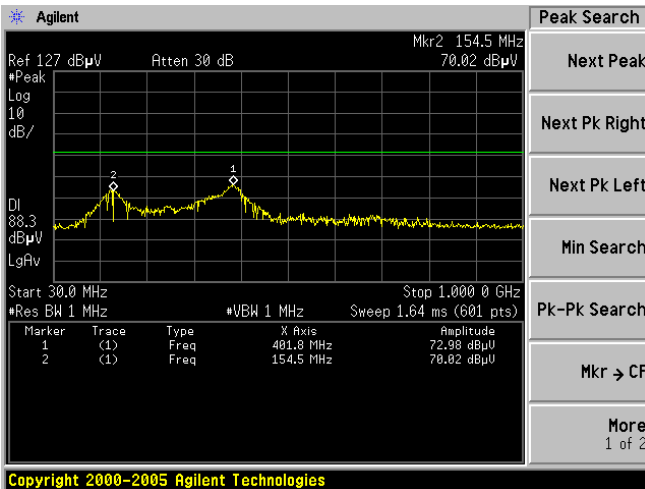
Test CH1: 2422MHz



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-WR941ND
Test Date:	Mar.28, 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
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	12.53	>500	PASS
6	12.27	>500	PASS
11	12.00	>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)

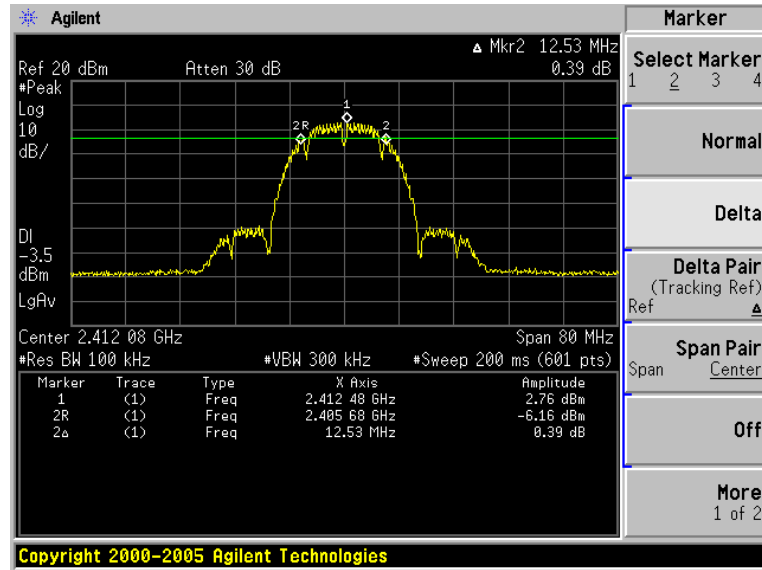
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.87	>500	PASS
6	18.00	>500	PASS
11	17.87	>500	PASS

Test Mode: IEEE 802.11n TX (HT40)

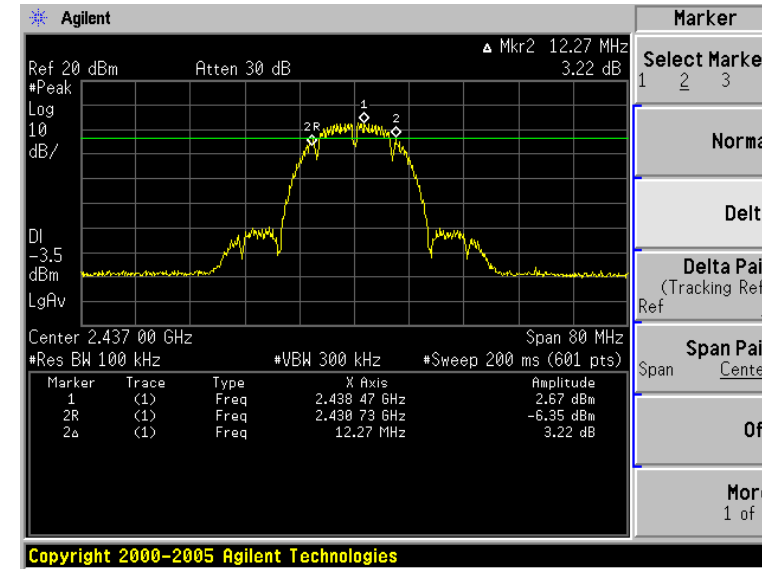
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	36.53	>500	PASS
4	36.53	>500	PASS
7	36.53	>500	PASS

Test Mode: IEEE 802.11b TX

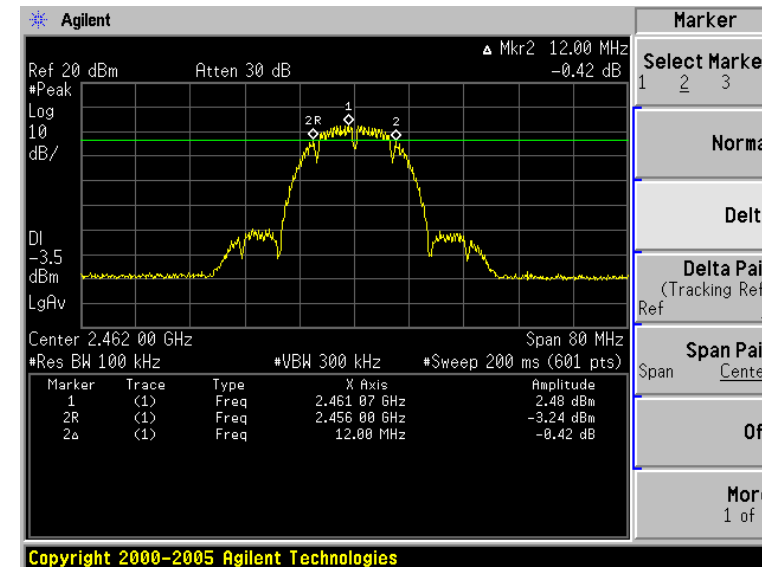
Test CH1: 2412MHz



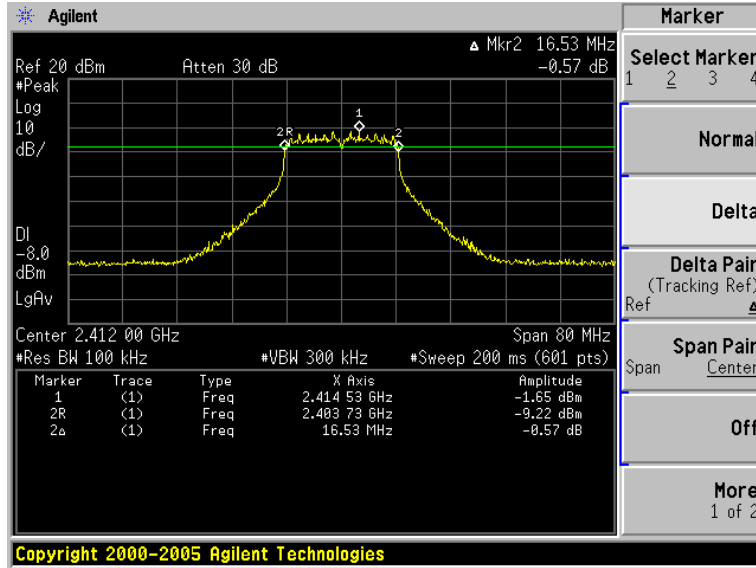
Test CH6: 2437MHz



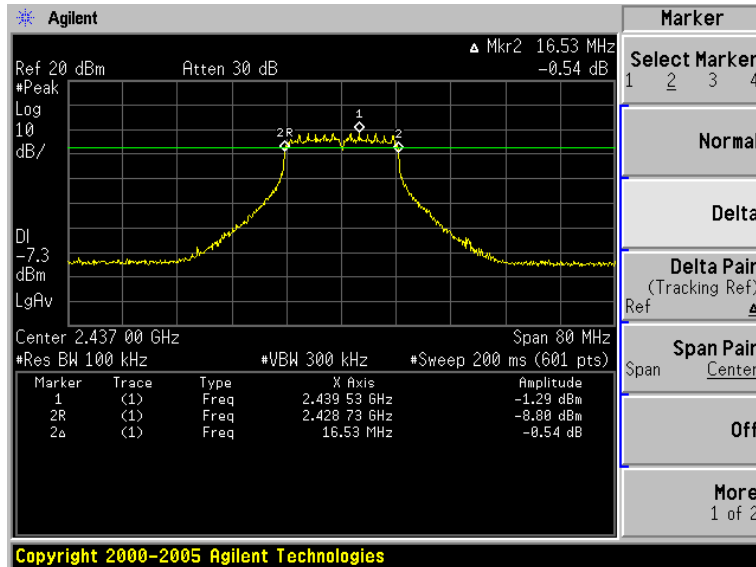
Test CH11: 2462MHz



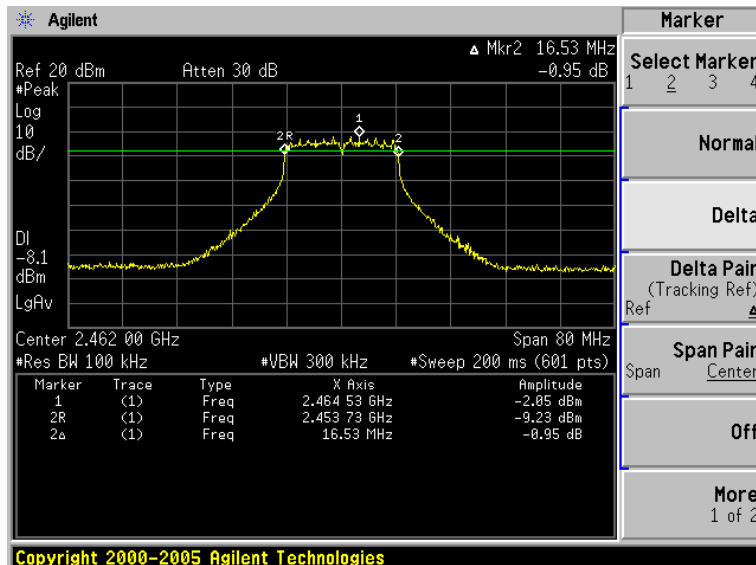
Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

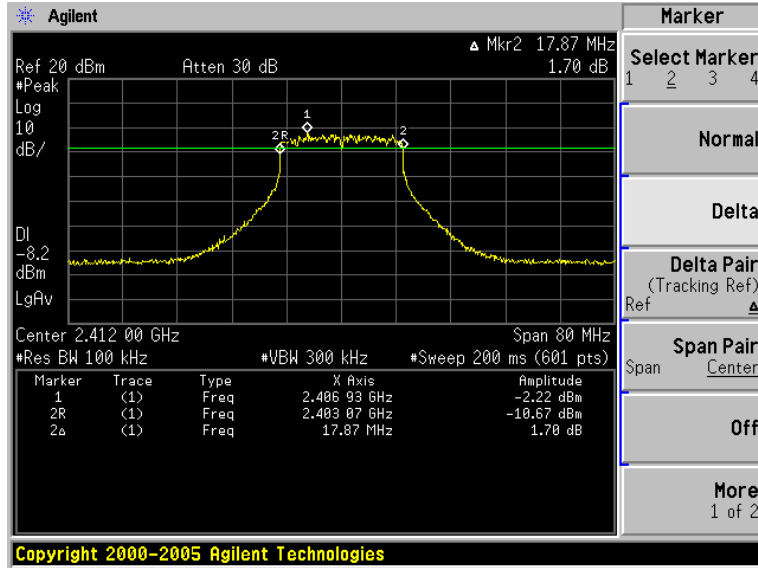


Test CH11: 2462MHz

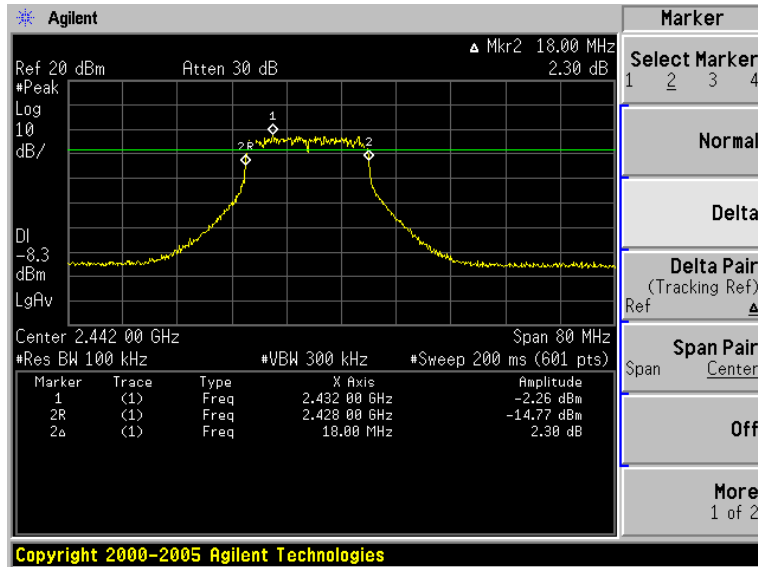


Test Mode: IEEE 802.11n TX (HT20)

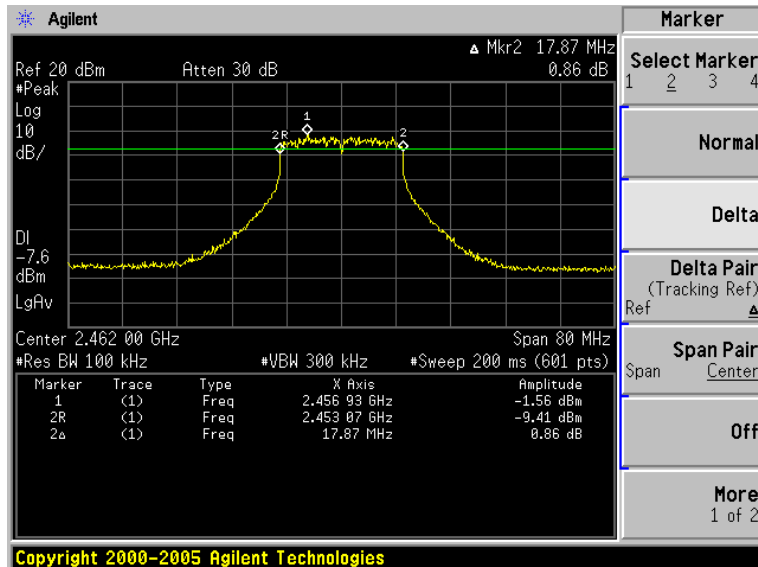
Test CH1: 2412MHz



Test CH6: 2437MHz

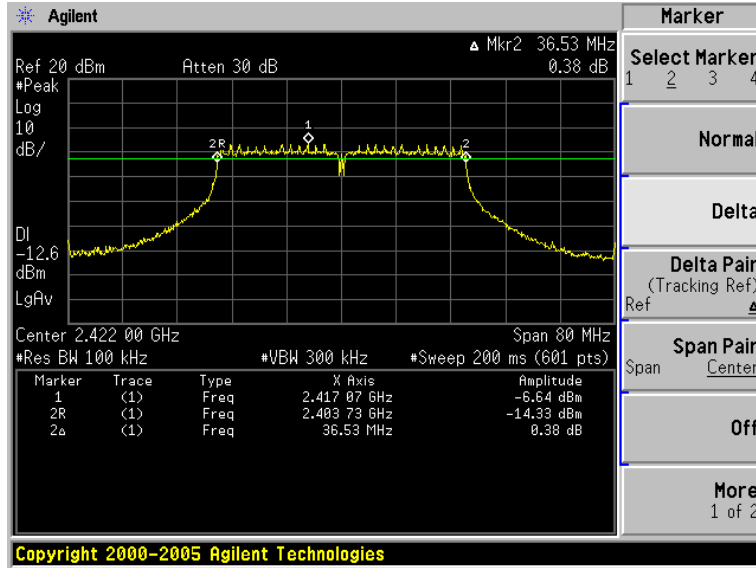


Test CH11: 2462MHz

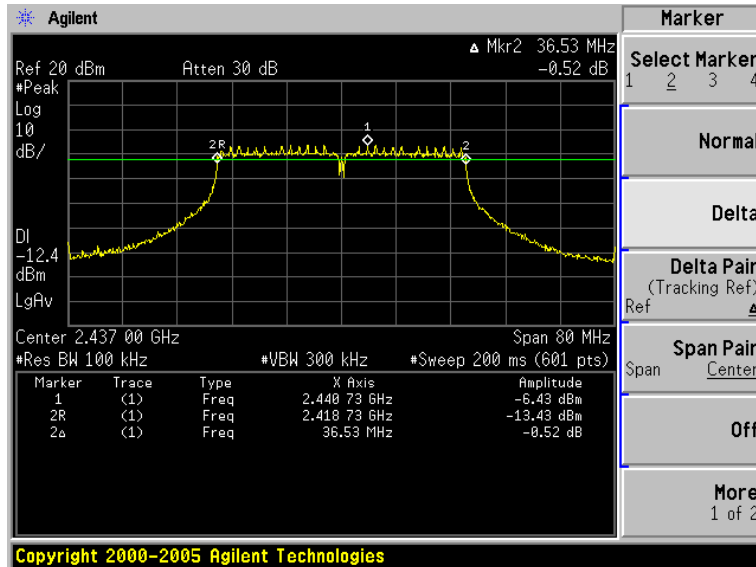


Test Mode: IEEE 802.11n TX (HT40)

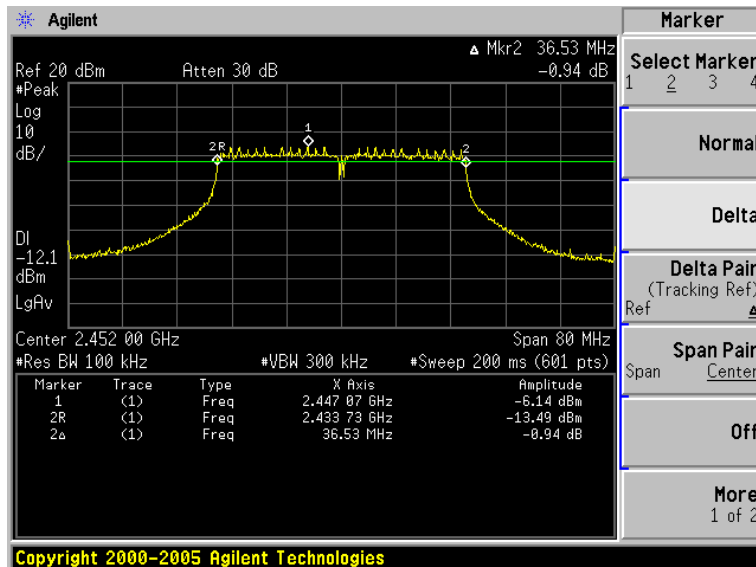
Test CH1: 2422MHz



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

6.2. Test Information

EUT:	Wireless N Router
M/N:	TL-WR941ND
Test Date:	Apr.30, 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
Tested By:	Jamy

6.3. Test Procedure

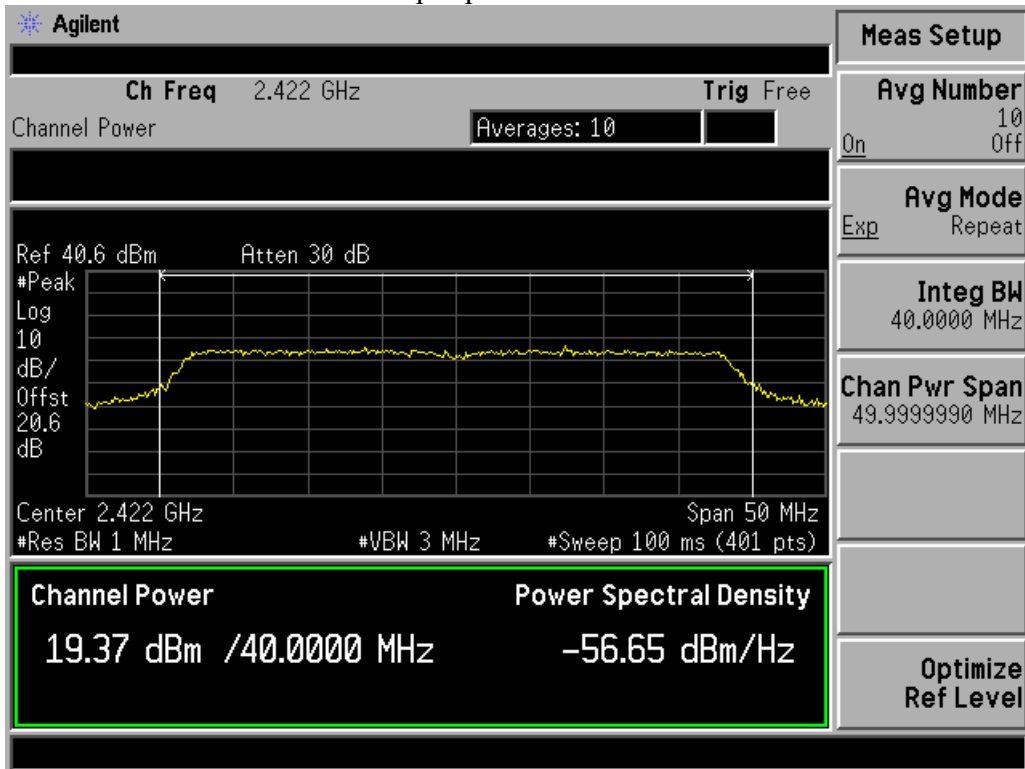
1, For IEEE 802.11b/g and IEEE802.11n HT20 mode, the transmitter output was connected to a power meter, use the power meter to read out the peak out put power.

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.

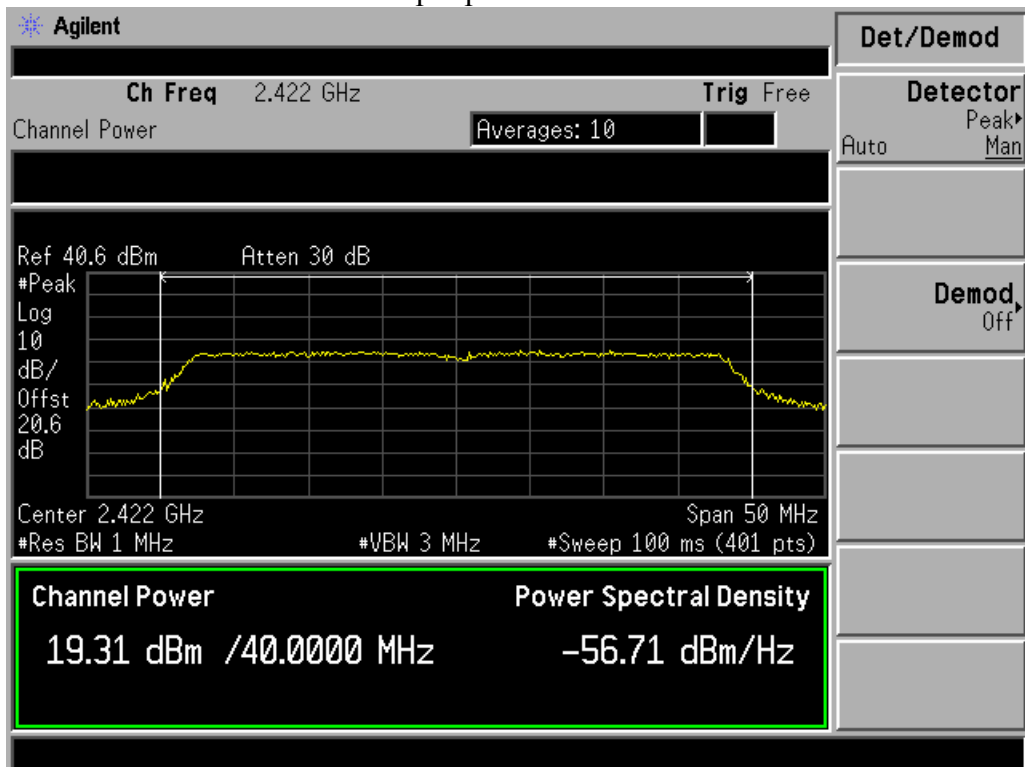
6.4.Test Results

Maximum Peak Conducted Output Power						
EUT: Wireless N Router M/N:TL-WR941ND						
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°C			Relative Humidity: 60%			
Test date:2008/04/30			Test site: RF site		Tested By: Jamy	
Cable Loss: 0.6dB Antenna Gain:2dBi						
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	Chain3	Result	
		Level (dBm)	Level (dBm)	Level (dBm)	Total Power (dBm)	Limit (dBm)
11b	CH1	15.32	15.53	15.65	20.27	30.00
	CH6	15.65	15.26	15.89	20.38	30.00
	CH11	15.72	15.68	15.91	20.54	30.00
11g	CH1	17.56	17.48	17.77	22.38	30.00
	CH6	17.45	17.92	17.90	22.53	30.00
	CH11	17.72	18.01	17.63	22.56	30.00
11n HT20	CH1	17.96	17.85	17.94	22.69	30.00
	CH6	18.02	17.92	17.68	22.65	30.00
	CH11	18.12	17.53	17.83	22.60	30.00
11n HT40	CH1	19.37	19.31	19.83	24.28	30.00
	CH4	19.76	18.88	19.21	24.07	30.00
	CH7	18.96	19.29	19.45	24.01	30.00
Note1:According Exploratory test, These data rate have the maximum output power						
Total power=Chain1 Level +Chain2 Level+Chain3 Level(Linear)						

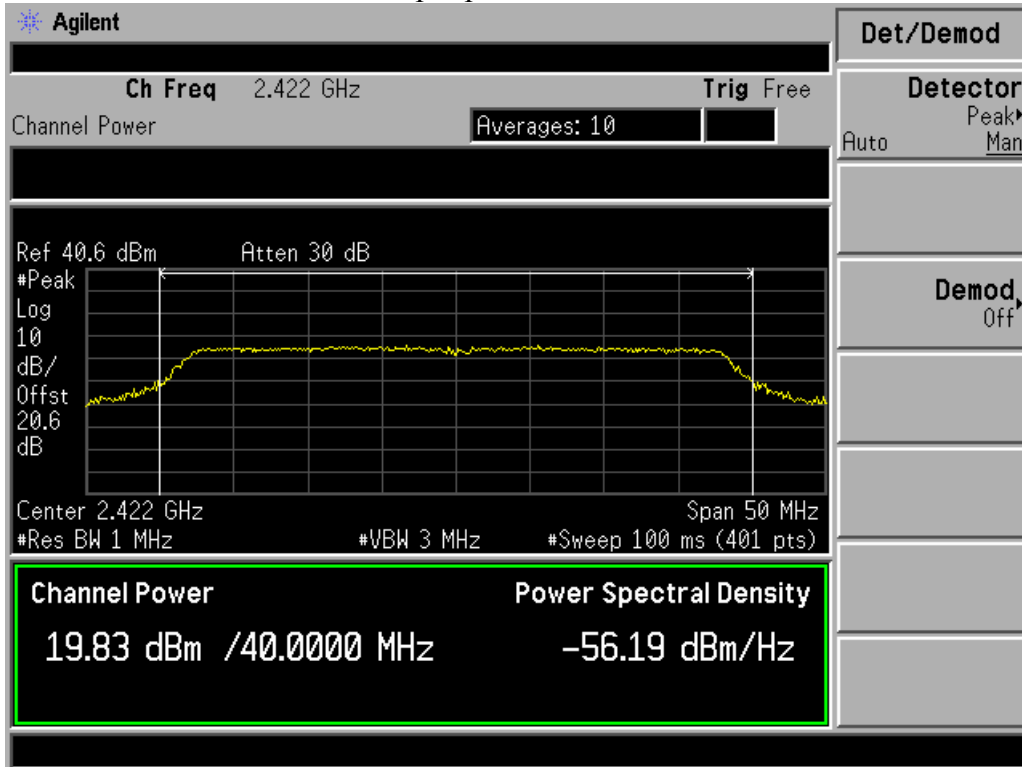
11n HT40 CH1 Chain1 Peak output power:



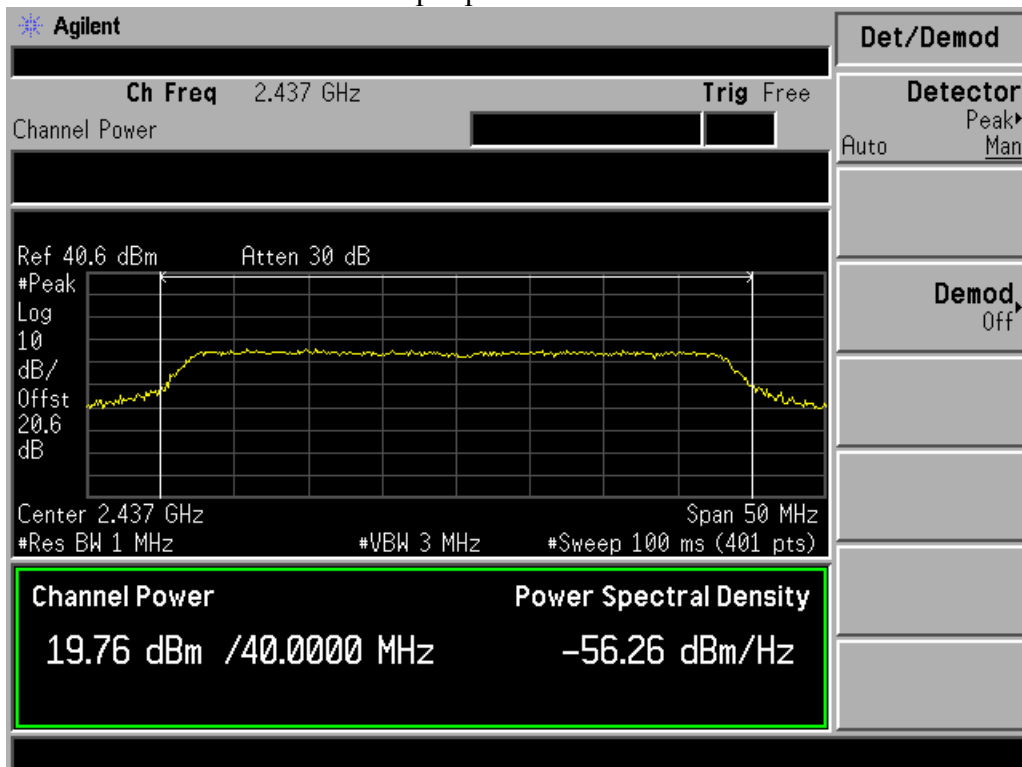
11n HT40 CH1 Chain2 Peak output power:



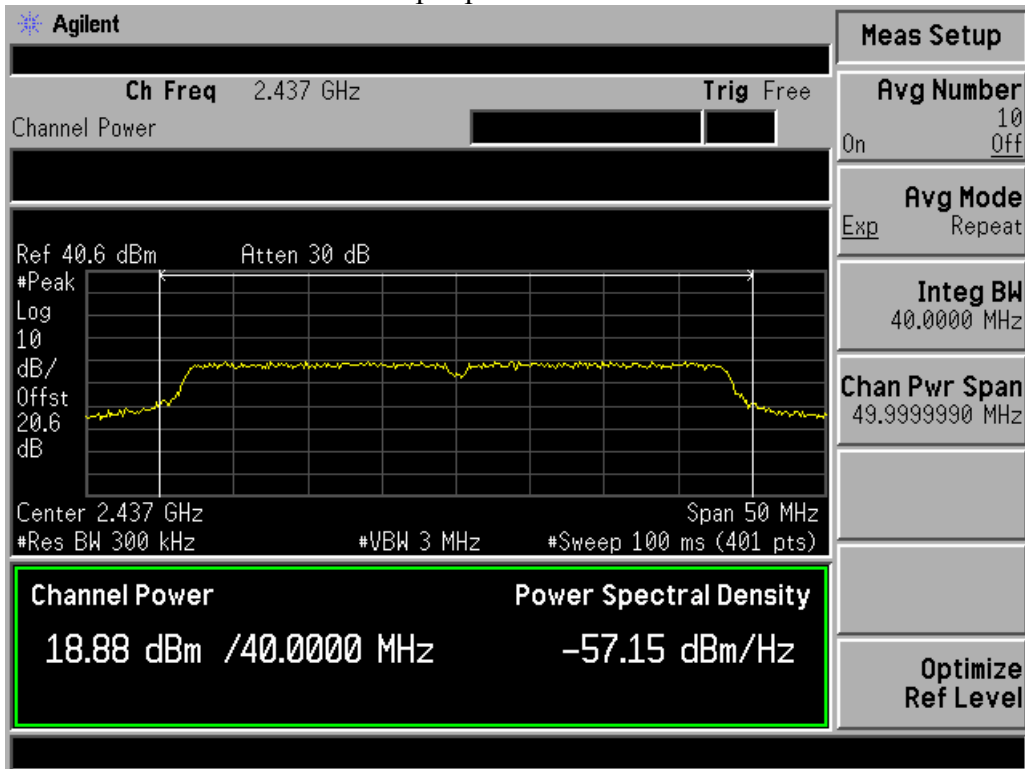
11n HT40 CH1 Chain3 Peak output power:



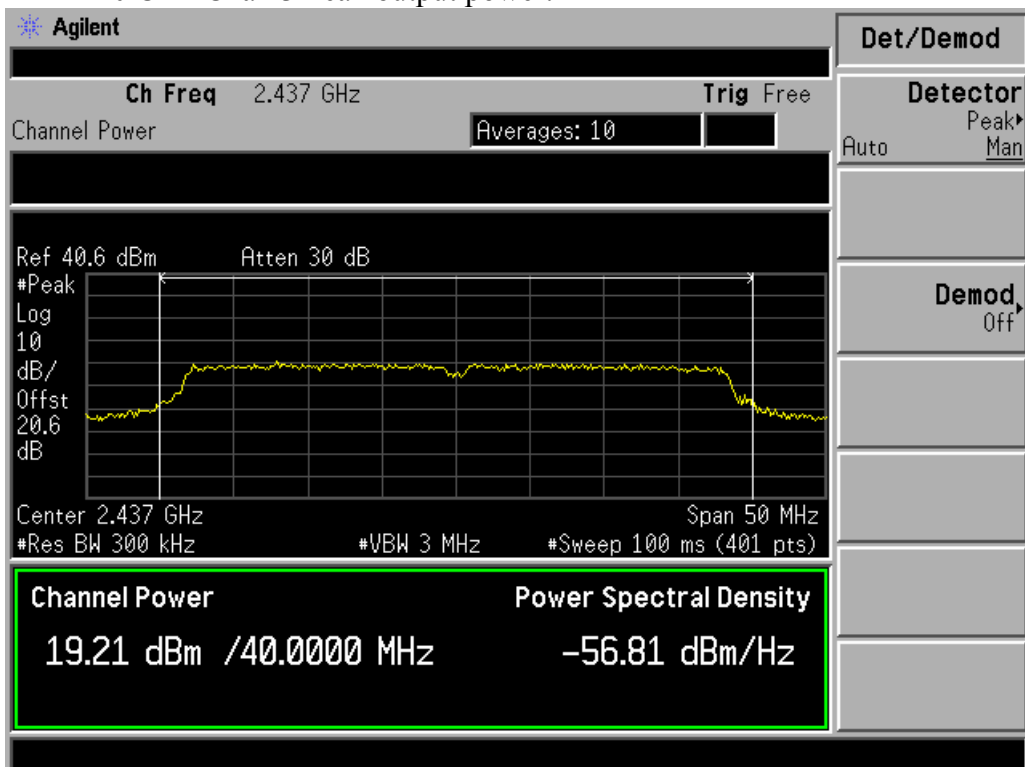
11n HT40 CH4 Chain1 Peak output power:



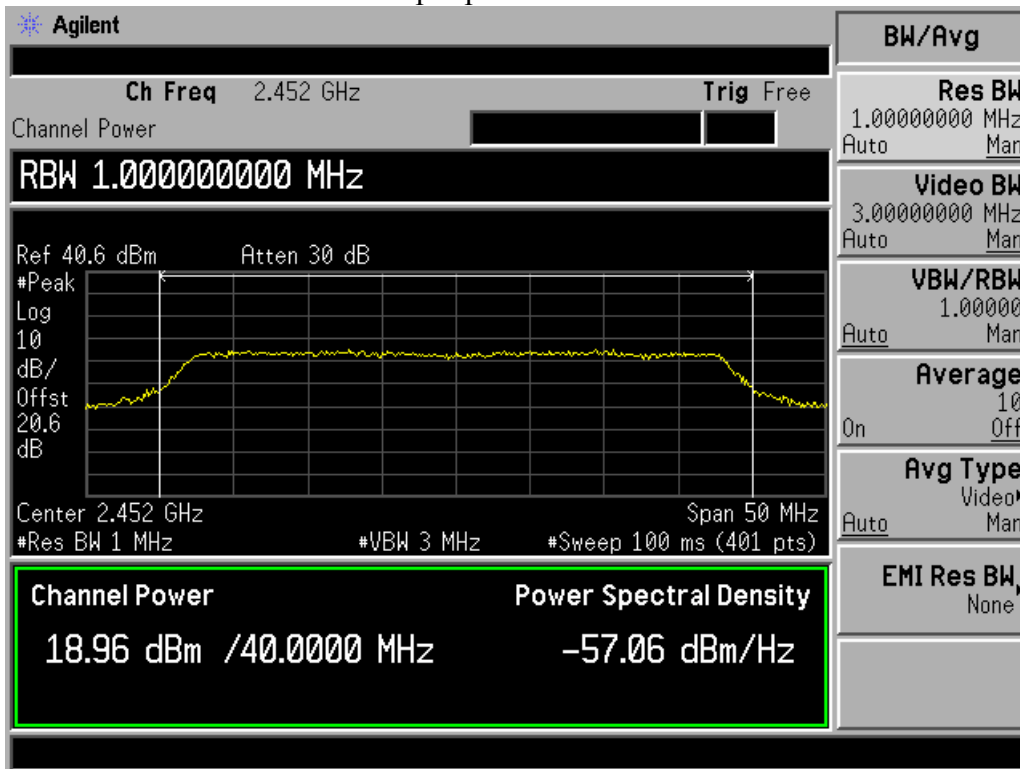
11n HT40 CH4 Chain2 Peak output power:



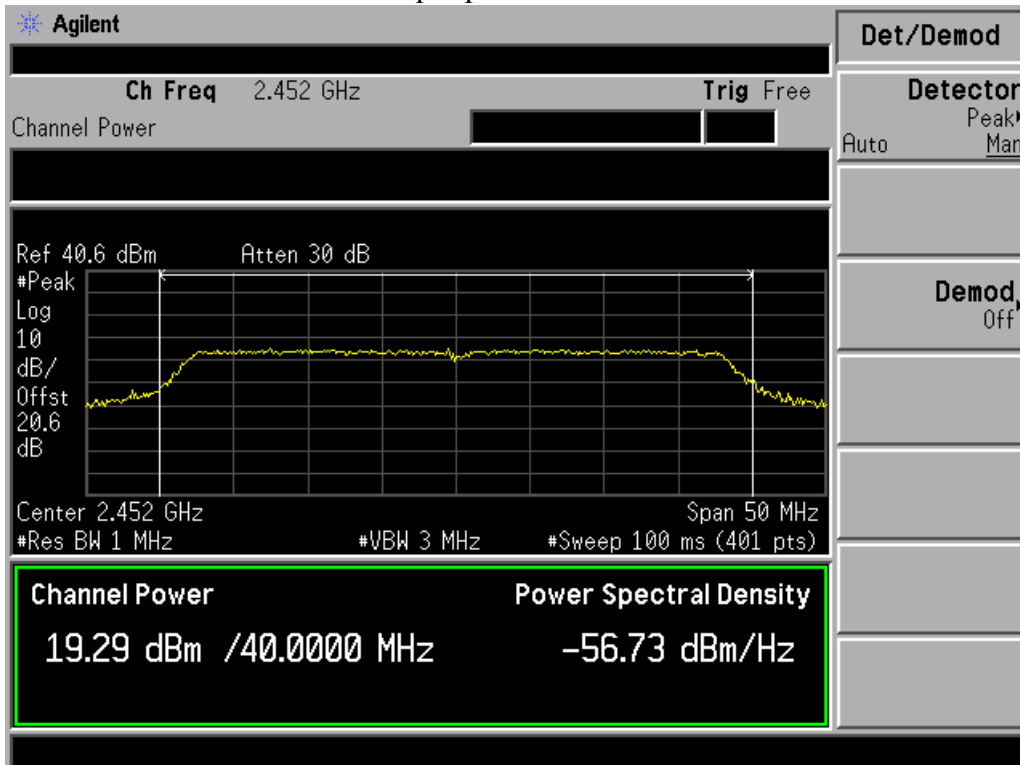
11n HT40 CH4 Chain3 Peak output power:



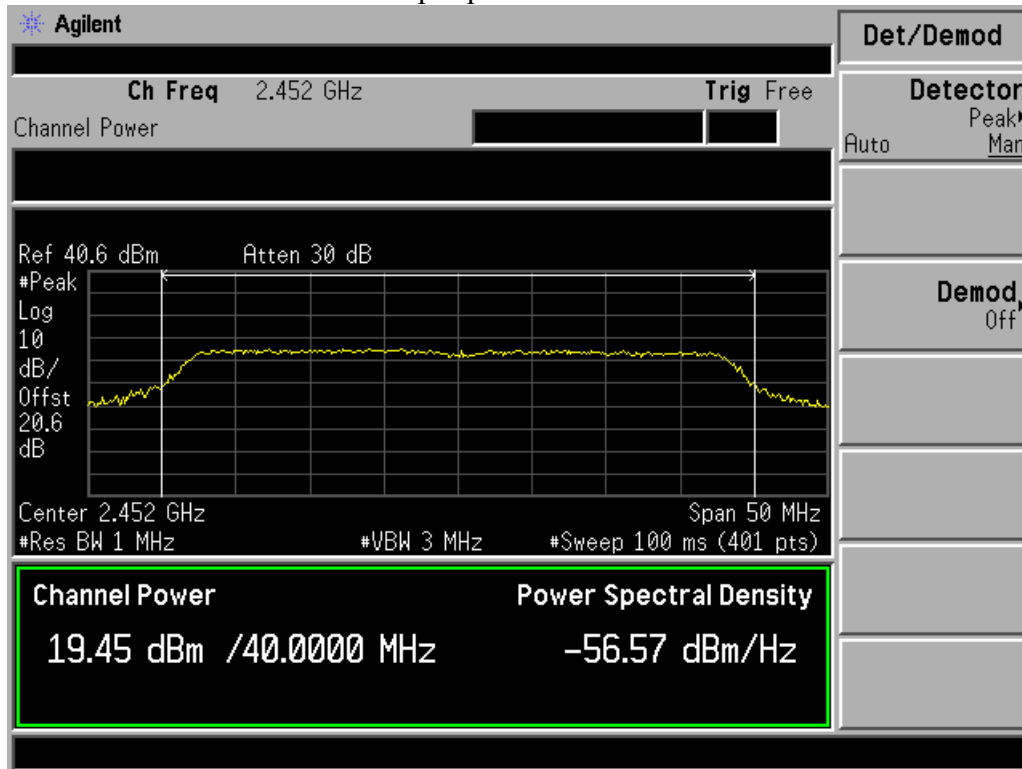
11n HT40 CH7 Chain1 Peak output power:



11n HT40 CH7 Chain2 Peak output power:



11n HT40 CH7 Chain3 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,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.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	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

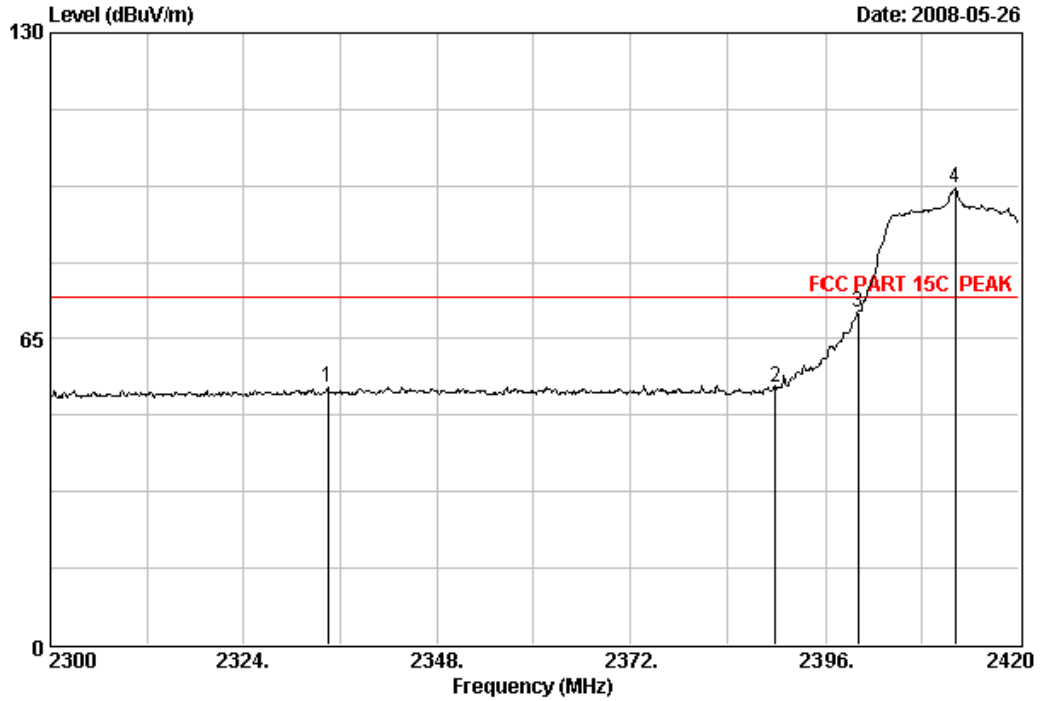
7.4. Test Results

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

Data: 191 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 191
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz

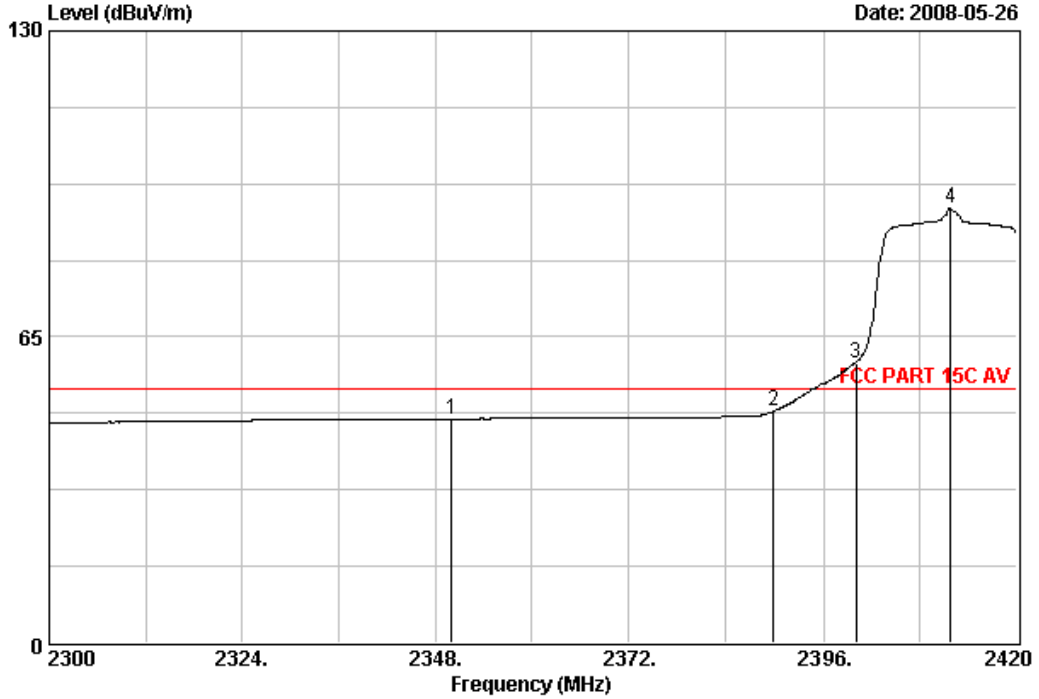
	Ant. Factor	Cable Loss	Amp Factor	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	28.83	6.65	35.20	54.48	54.76	74.00	19.24	Peak
2	28.99	6.71	35.18	54.22	54.74	74.00	19.26	Peak
3	28.99	6.73	35.18	69.96	70.50	74.00	3.50	Peak
4	29.03	6.73	35.18	96.65	97.23	74.00	-23.23	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\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 192
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz

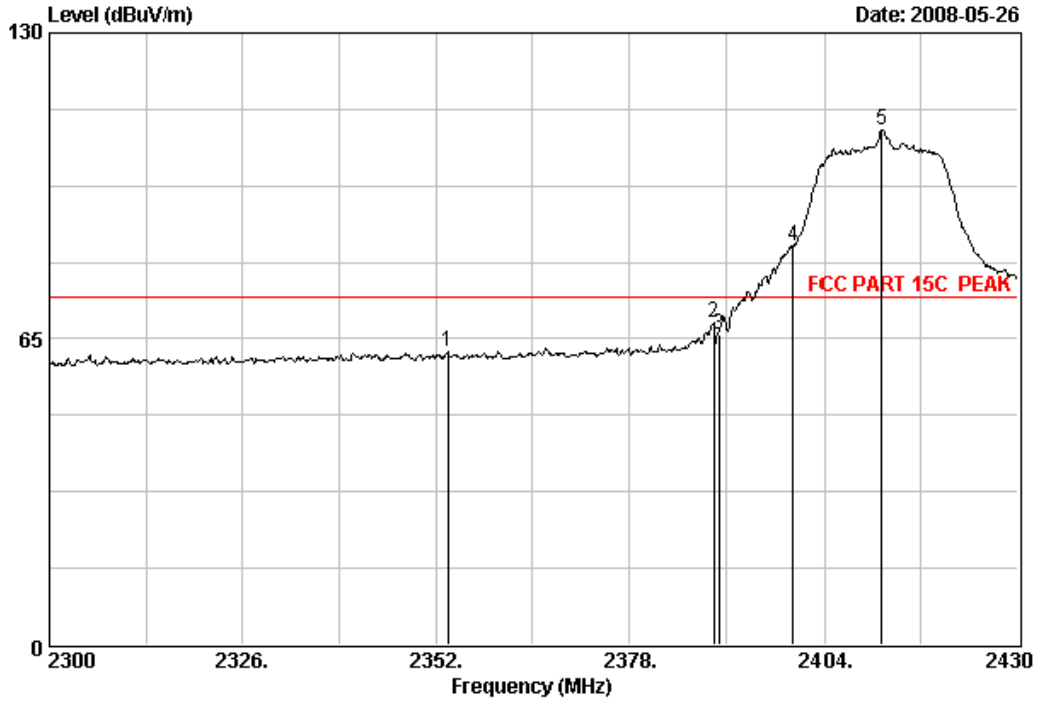
	Ant. Factor	Cable Loss	Amp Factor	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	28.87	6.67	35.19	47.24	47.59	54.00	6.41	Average
2	28.99	6.71	35.18	48.72	49.24	54.00	4.76	Average
3	28.99	6.73	35.18	59.02	59.56	54.00	-5.56	Average
4	29.03	6.73	35.18	91.77	92.35	54.00	-38.35	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: 193 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 193
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz

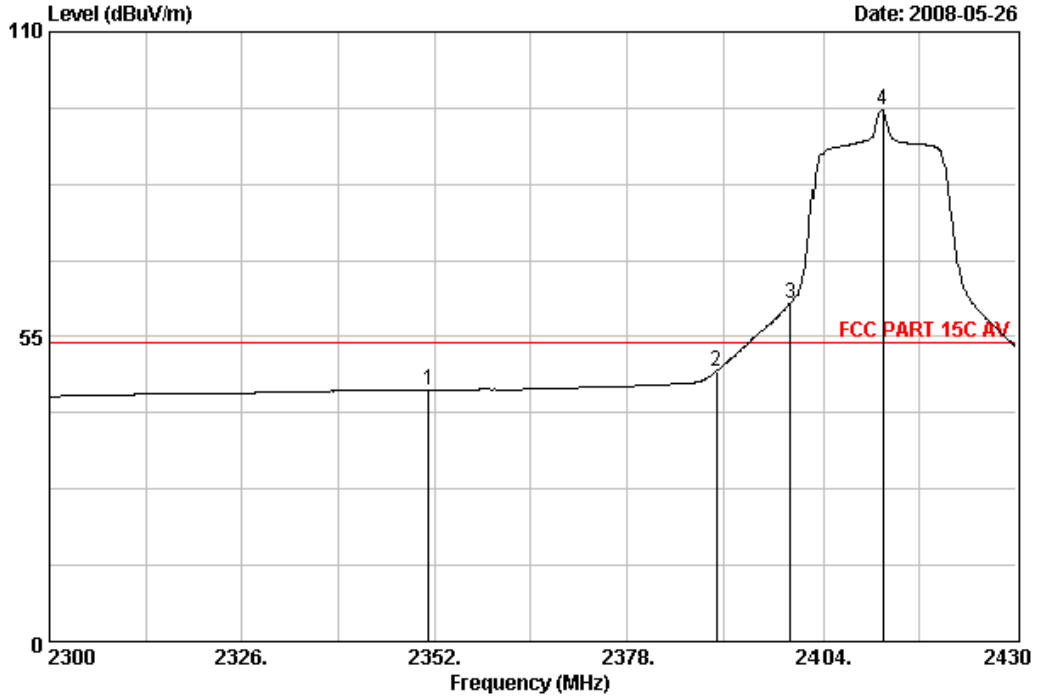
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	28.91	6.67	35.19	62.05	62.44	74.00	11.56	Peak
2	28.99	6.71	35.18	68.09	68.61	74.00	5.39	Peak
3	28.99	6.71	35.18	65.41	65.93	74.00	8.07	Peak
4	28.99	6.73	35.18	84.08	84.62	74.00	-10.62	Peak
5	29.03	6.73	35.18	108.90	109.48	74.00	-35.48	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.



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: 194 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 194
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH1:2412MHz

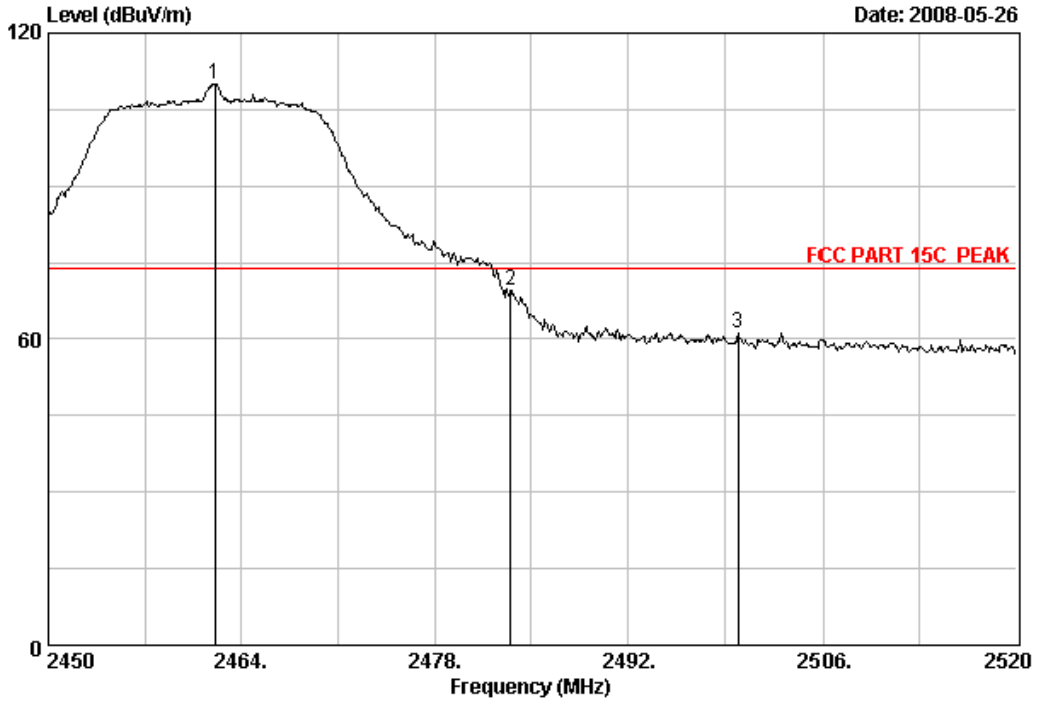
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	28.87	6.67	35.19	45.09	45.44	54.00	8.56	Average
2	28.99	6.71	35.18	48.20	48.72	54.00	5.28	Average
3	28.99	6.73	35.18	60.57	61.11	54.00	-7.11	Average
4	29.03	6.73	35.18	95.29	95.87	54.00	-41.87	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.



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: 195 File: D:\2008 report data\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 195
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz

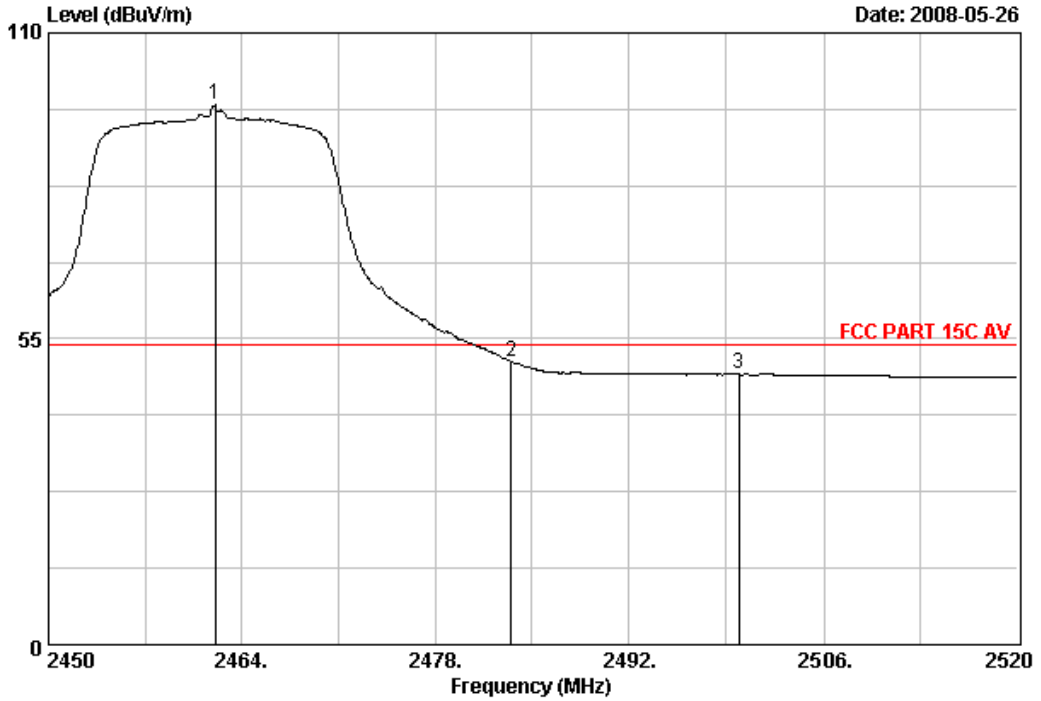
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.04	29.15	6.84	35.17	109.10	109.92	74.00	-35.92	Peak
2	2483.50	29.19	6.87	35.16	68.60	69.50	74.00	4.50	Peak
3	2500.00	29.23	6.91	35.15	60.11	61.10	74.00	12.90	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.



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: 196 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (222)



Site no. : RF Chamber Data no. : 196
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz

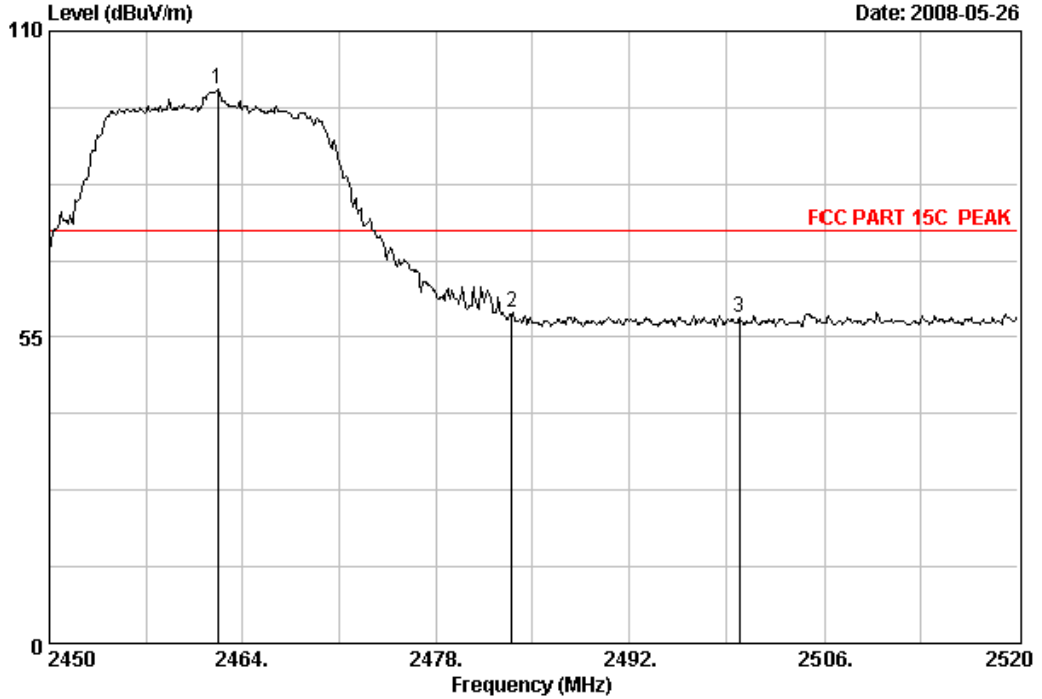
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.04	29.15	6.84	35.17	96.26	97.08	54.00	-43.08	Average
2	2483.50	29.19	6.87	35.16	49.93	50.83	54.00	3.17	Average
3	2500.00	29.23	6.91	35.15	47.58	48.57	54.00	5.43	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: 197 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 197
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz

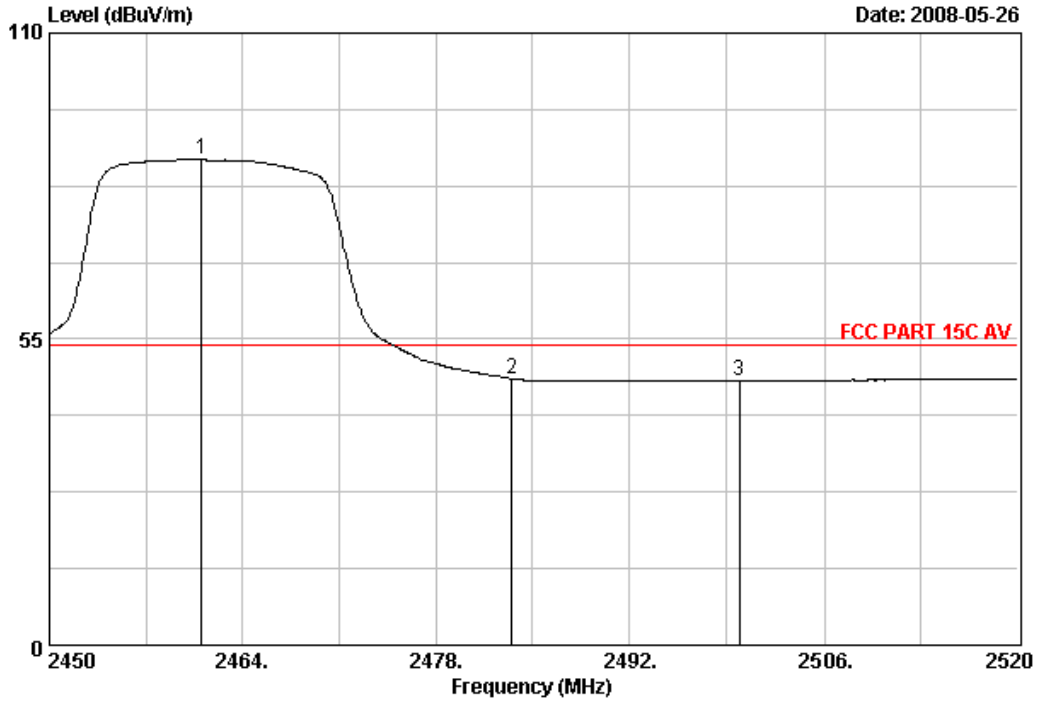
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2462.18	29.15	6.84	35.17	98.74	99.56	74.00	-25.56	Peak
2	2483.50	29.19	6.87	35.16	58.44	59.34	74.00	14.66	Peak
3	2500.00	29.23	6.91	35.15	57.65	58.64	74.00	15.36	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: 198 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 198
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11g CH11:2462MHz

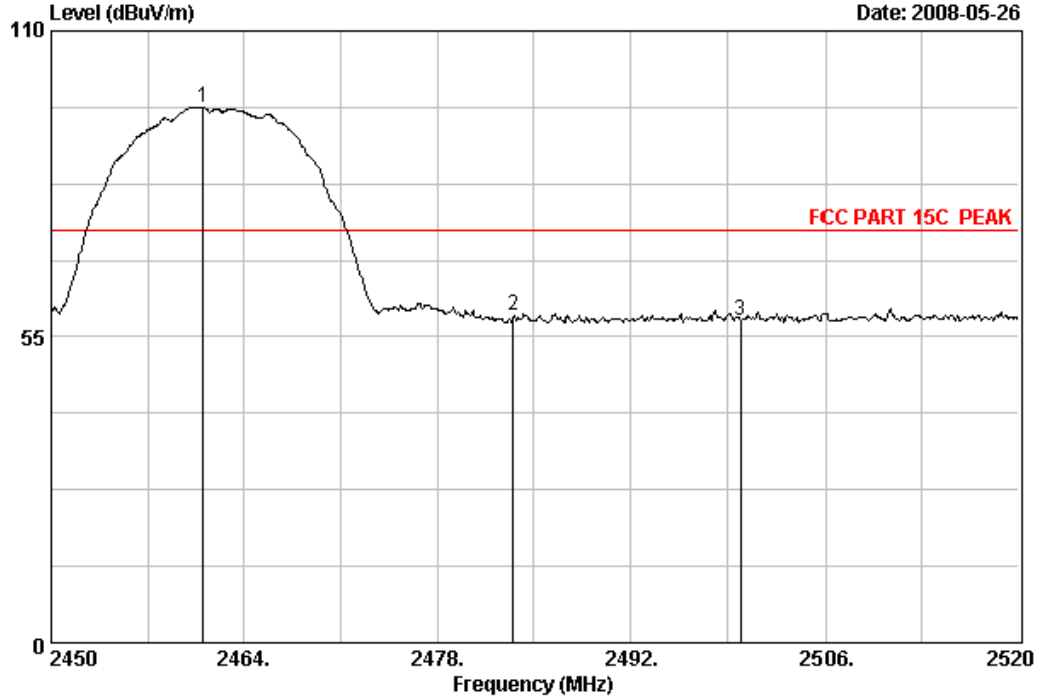
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2460.99	29.15	6.84	35.17	86.47	87.29	54.00	-33.29	Average
2	2483.50	29.19	6.87	35.16	47.02	47.92	54.00	6.08	Average
3	2500.00	29.23	6.91	35.15	46.56	47.55	54.00	6.45	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: 199 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 199
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz

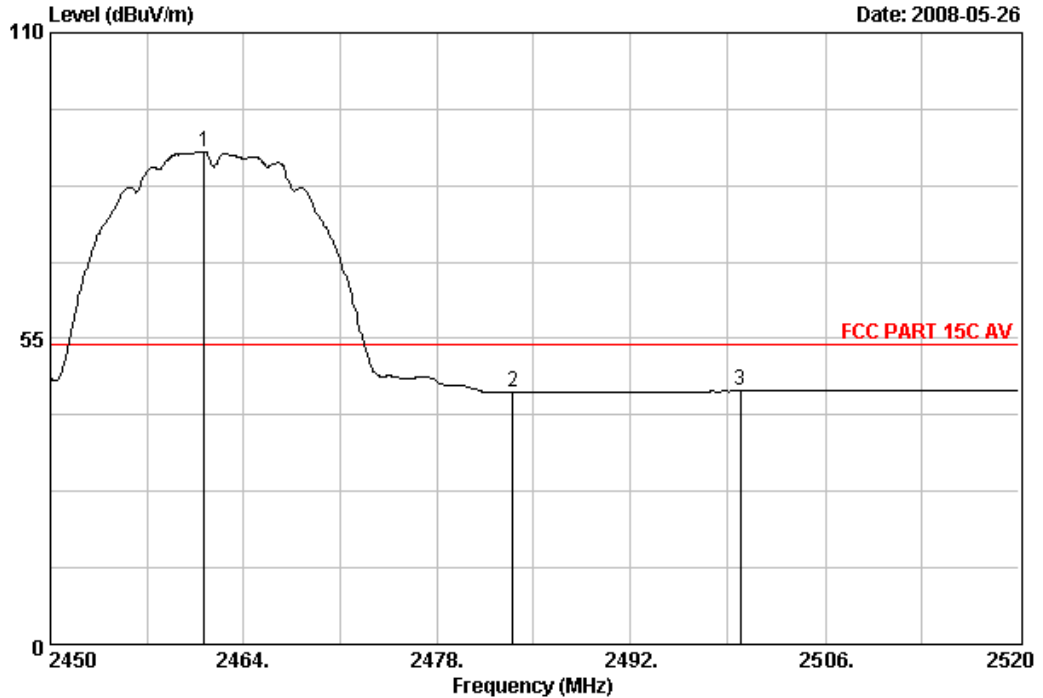
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2460.99	29.15	6.84	35.17	95.39	96.21	74.00	-22.21	Peak
2	2483.50	29.19	6.87	35.16	57.85	58.75	74.00	15.25	Peak
3	2500.00	29.23	6.91	35.15	56.94	57.93	74.00	16.07	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: 200 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 200
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz

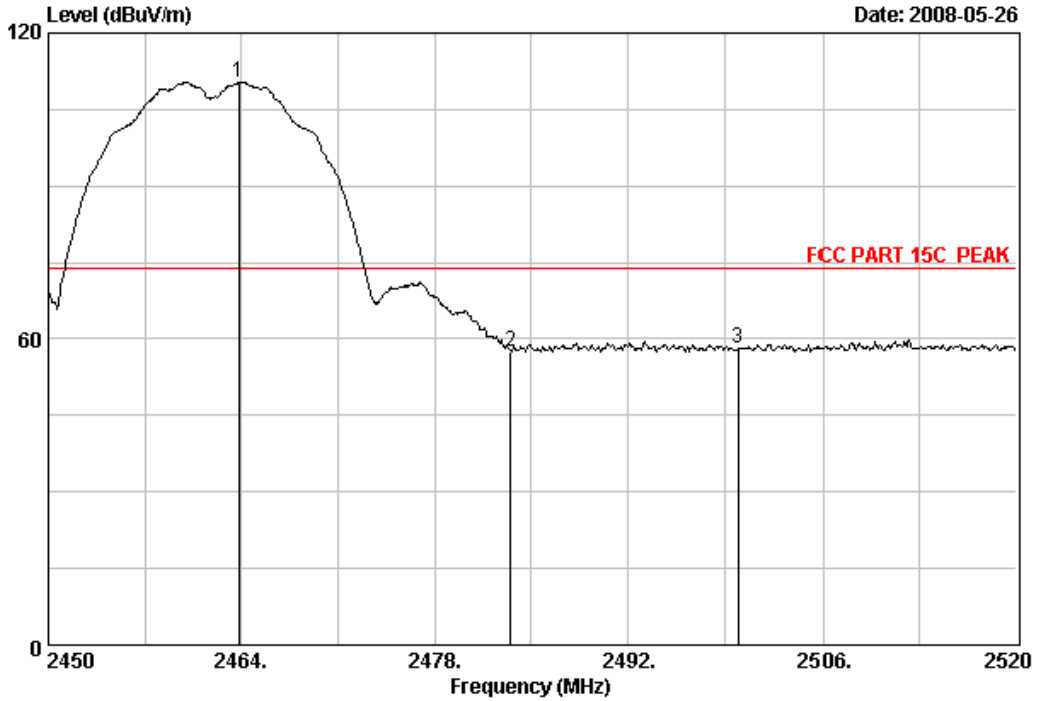
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.13	29.15	6.84	35.17	87.83	88.65	54.00	-34.65	Average
2	2483.50	29.19	6.87	35.16	44.37	45.27	54.00	8.73	Average
3	2500.00	29.23	6.91	35.15	44.51	45.50	54.00	8.50	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.



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: 201 File: D:\2008 report data\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 201
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz

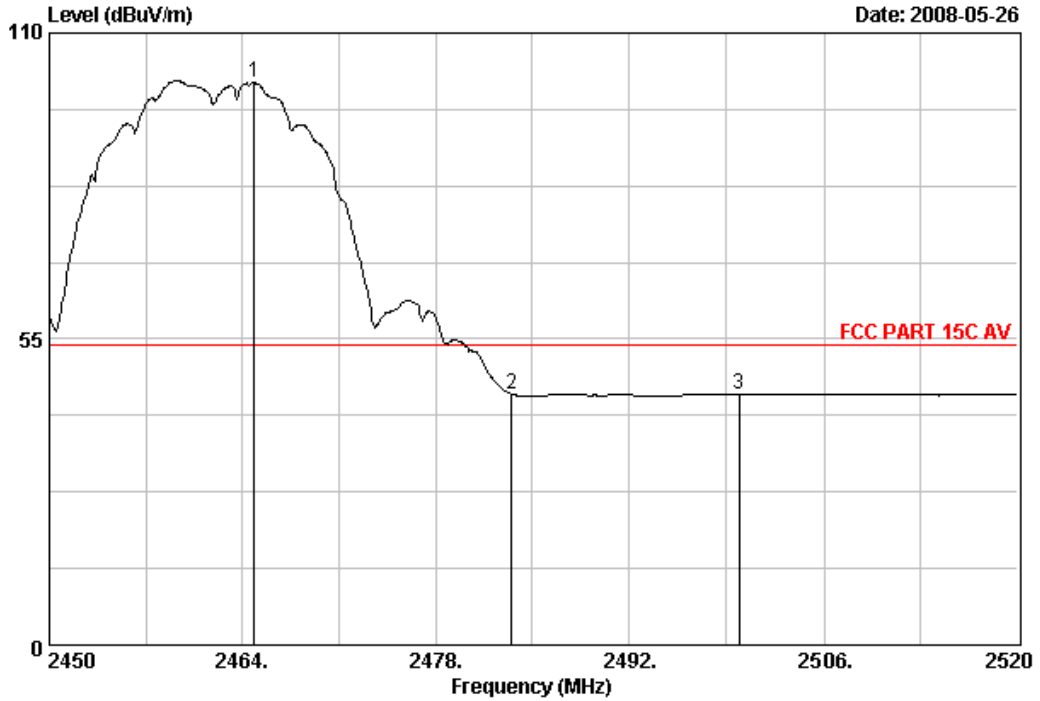
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.79	29.15	6.84	35.16	109.47	110.30	74.00	-36.30	Peak
2	2483.50	29.19	6.87	35.16	56.44	57.34	74.00	16.66	Peak
3	2500.00	29.23	6.91	35.15	57.04	58.03	74.00	15.97	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\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 202
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH11:2462MHz

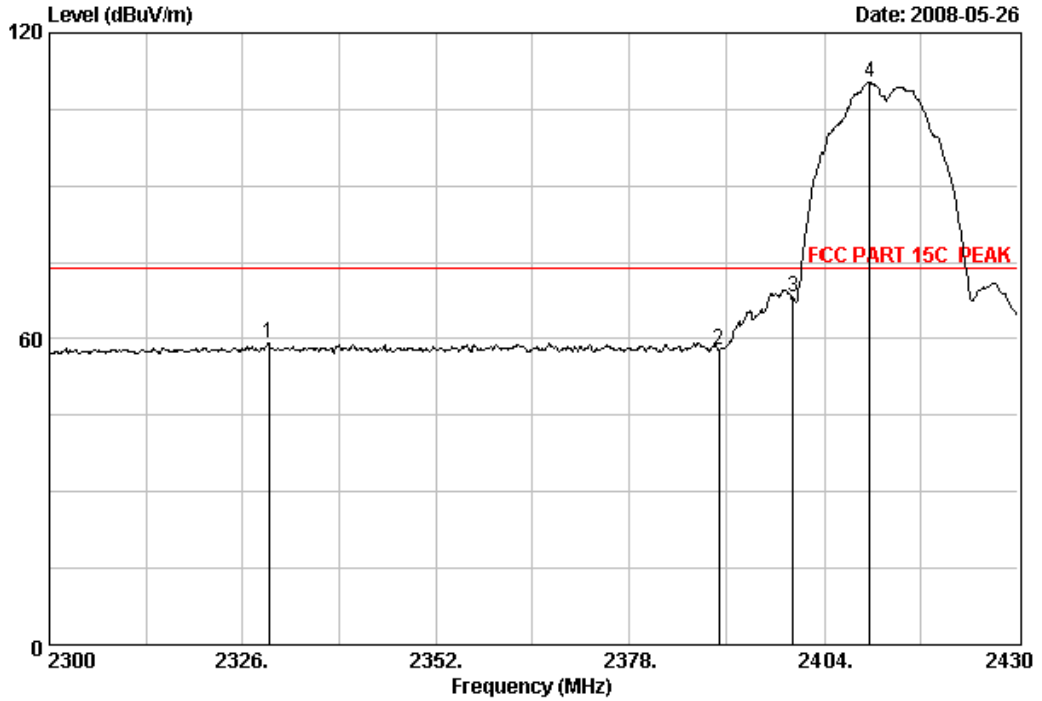
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.84	29.15	6.84	35.16	100.16	100.99	54.00	-46.99	Average
2	2483.50	29.19	6.87	35.16	44.16	45.06	54.00	8.94	Average
3	2500.00	29.23	6.91	35.15	43.97	44.96	54.00	9.04	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.



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: 203 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 203
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz

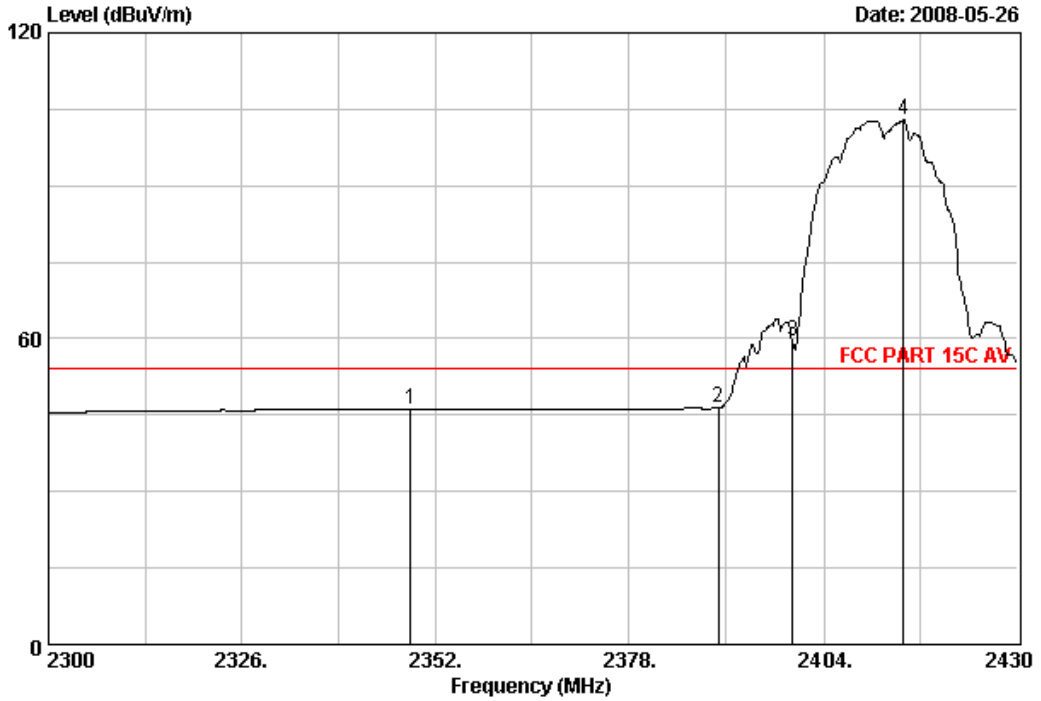
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	28.83	6.65	35.20	59.04	59.32	74.00	14.68	Peak
2	28.99	6.71	35.18	57.29	57.81	74.00	16.19	Peak
3	28.99	6.73	35.18	67.71	68.25	74.00	5.75	Peak
4	29.03	6.73	35.18	109.62	110.20	74.00	-36.20	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:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 204 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (222)



Site no. : RF Chamber Data no. : 204
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz

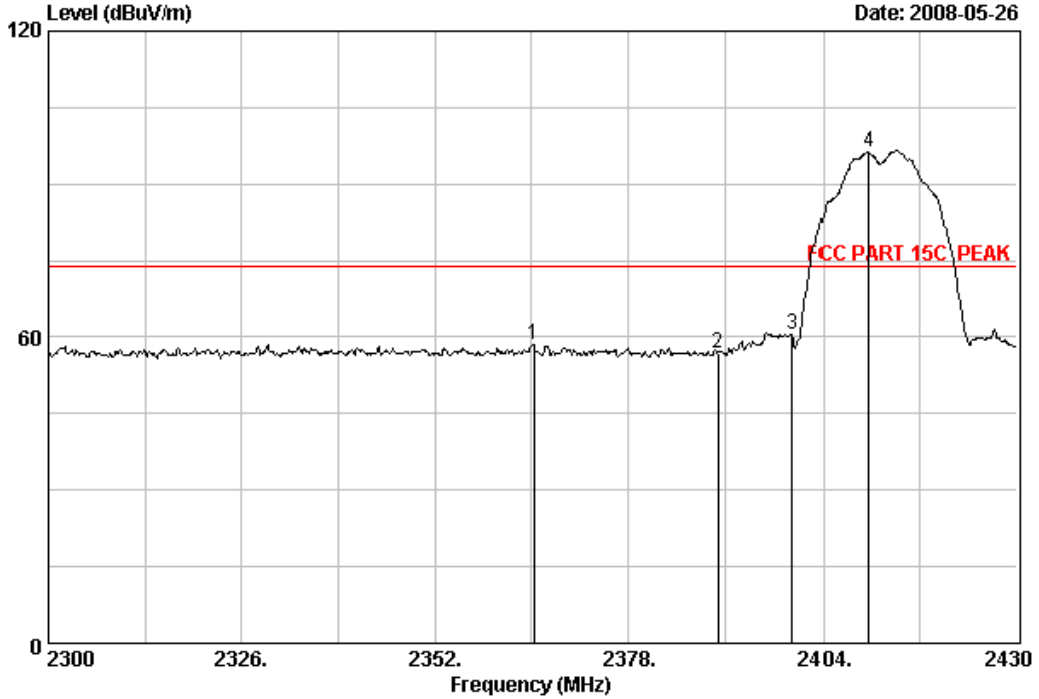
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2348.62	28.87	6.67	35.19	45.78	46.13	54.00	7.87	Average
2	2390.00	28.99	6.71	35.18	45.90	46.42	54.00	7.58	Average
3	2400.00	28.99	6.73	35.18	59.01	59.55	54.00	-5.55	Average
4	2414.66	29.03	6.77	35.17	102.32	102.95	54.00	-48.95	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: 205 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 205
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz

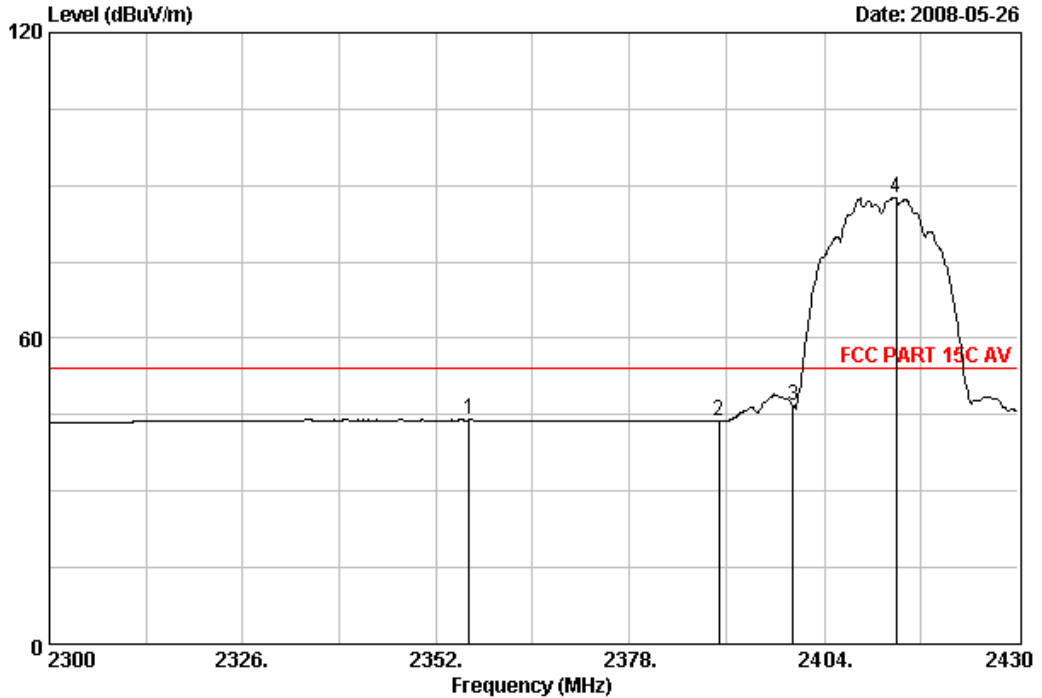
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2365.26	28.91	6.69	35.19	58.12	58.53	74.00	15.47	Peak
2	2390.00	28.99	6.71	35.18	56.34	56.86	74.00	17.14	Peak
3	2400.00	28.99	6.73	35.18	59.97	60.51	74.00	13.49	Peak
4	2410.11	29.03	6.73	35.18	95.60	96.18	74.00	-22.18	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: 206 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 206
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11b CH1:2412MHz

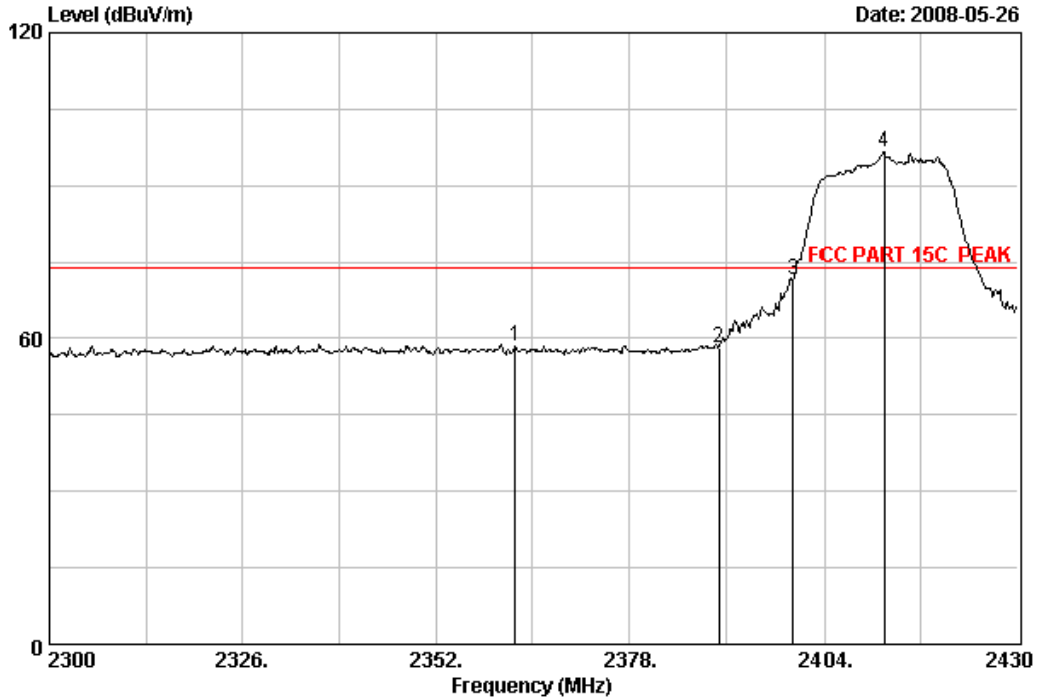
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2356.42	28.91	6.69	35.19	43.56	43.97	54.00	10.03	Average
2	2390.00	28.99	6.71	35.18	43.30	43.82	54.00	10.18	Average
3	2400.00	28.99	6.73	35.18	46.29	46.83	54.00	7.17	Average
4	2413.62	29.03	6.77	35.17	87.03	87.66	54.00	-33.66	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: 207 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 207
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH1:2412MHz

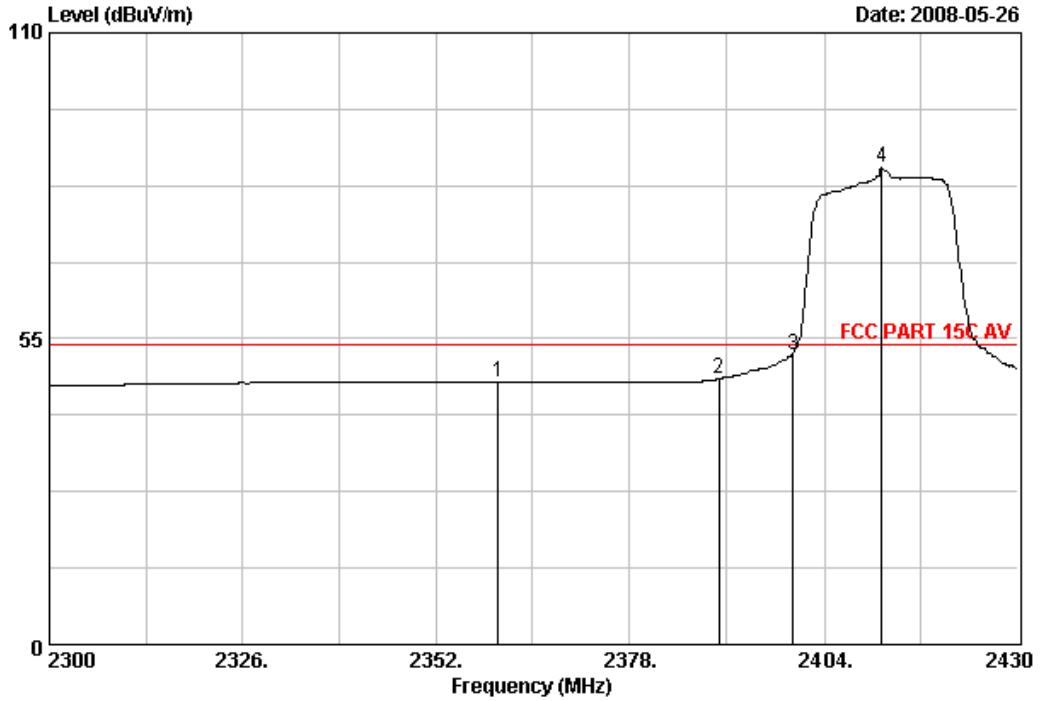
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	28.91	6.69	35.19	58.11	58.52	74.00	15.48	Peak
2	28.99	6.71	35.18	57.66	58.18	74.00	15.82	Peak
3	28.99	6.73	35.18	70.98	71.52	74.00	2.48	Peak
4	29.03	6.73	35.18	96.07	96.65	74.00	-22.65	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: 208 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 208
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH1:2412MHz

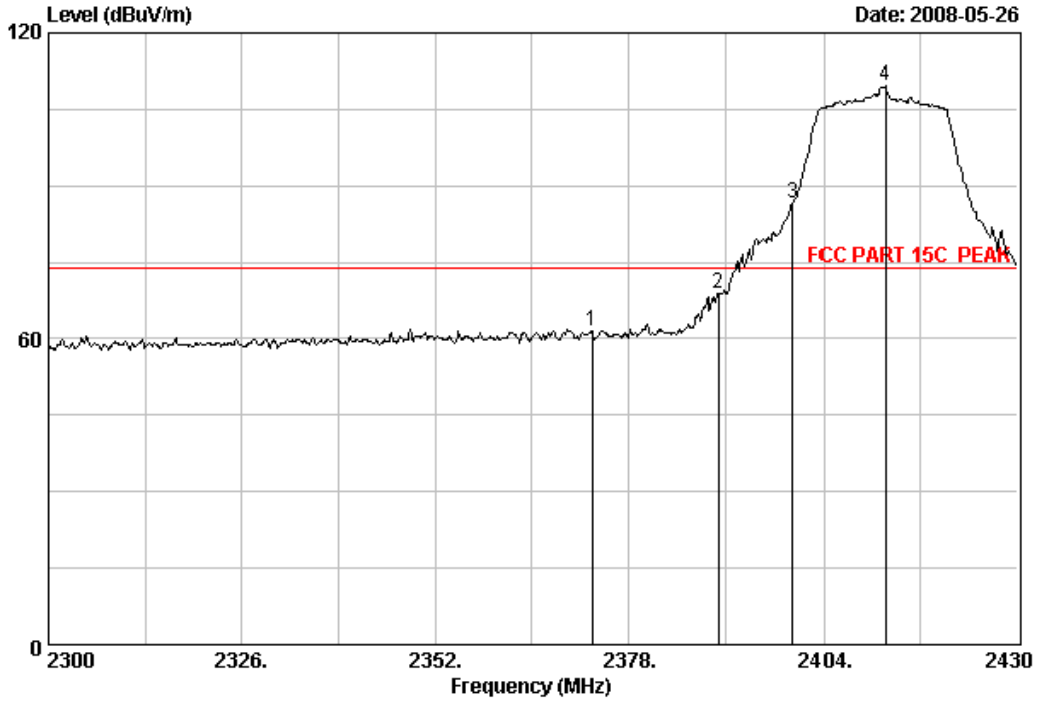
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	28.91	6.69	35.19	46.93	47.34	54.00	6.66	Average
2	28.99	6.71	35.18	47.16	47.68	54.00	6.32	Average
3	28.99	6.73	35.18	51.69	52.23	54.00	1.77	Average
4	29.03	6.73	35.18	85.11	85.69	54.00	-31.69	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: 209 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (222)



Site no. : RF Chamber Data no. : 209
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH1:2412MHz

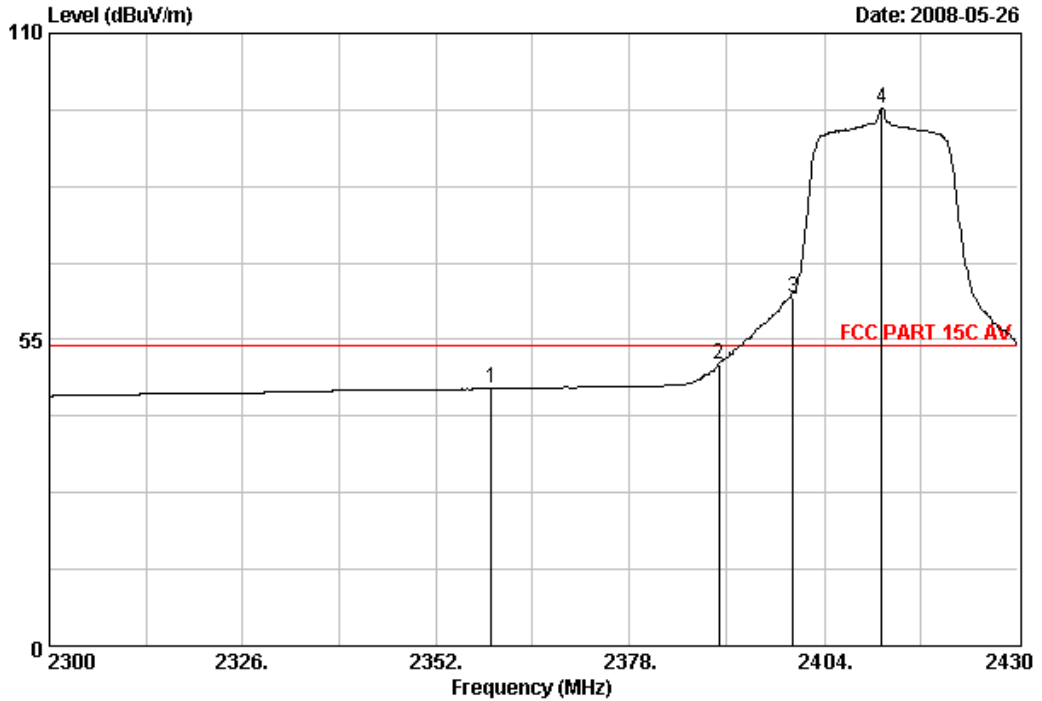
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2373.06	28.95	6.69	35.19	61.05	61.50	74.00	12.50	Peak
2	2390.00	28.99	6.71	35.18	68.45	68.97	74.00	5.03	Peak
3	2400.00	28.99	6.73	35.18	86.08	86.62	74.00	-12.62	Peak
4	2412.32	29.03	6.77	35.18	109.00	109.62	74.00	-35.62	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: 210 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 210
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH1:2412MHz

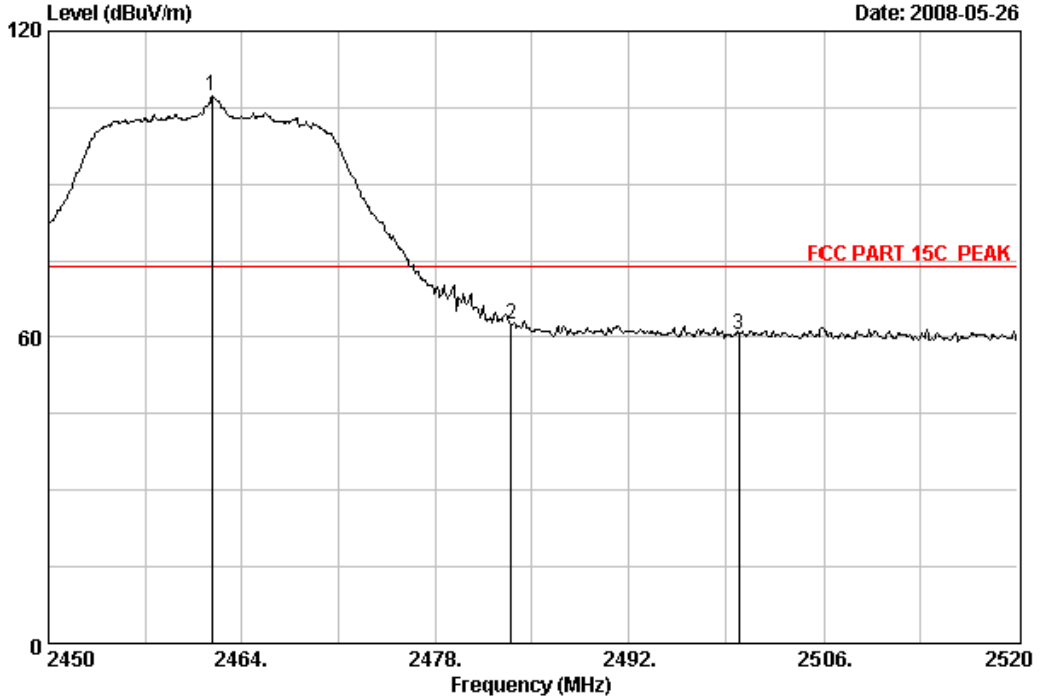
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2359.41	28.91	6.69	35.19	45.83	46.24	54.00	7.76	Average
2	2390.00	28.99	6.71	35.18	50.12	50.64	54.00	3.36	Average
3	2400.00	28.99	6.73	35.18	61.97	62.51	54.00	-8.51	Average
4	2411.67	29.03	6.73	35.18	95.89	96.47	54.00	-42.47	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: 211 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 211
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH11:2462MHz

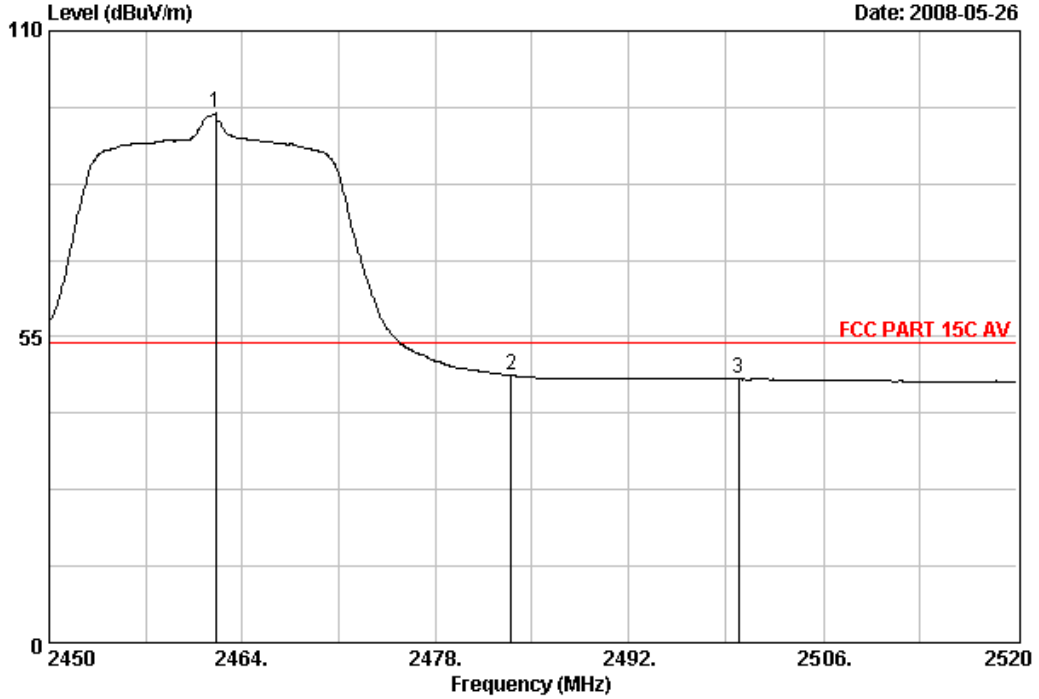
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2461.83	29.15	6.84	35.17	106.41	107.23	74.00	-33.23	Peak
2	2483.50	29.19	6.87	35.16	61.59	62.49	74.00	11.51	Peak
3	2500.00	29.23	6.91	35.15	59.66	60.65	74.00	13.35	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: 212 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 212
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH11:2462MHz

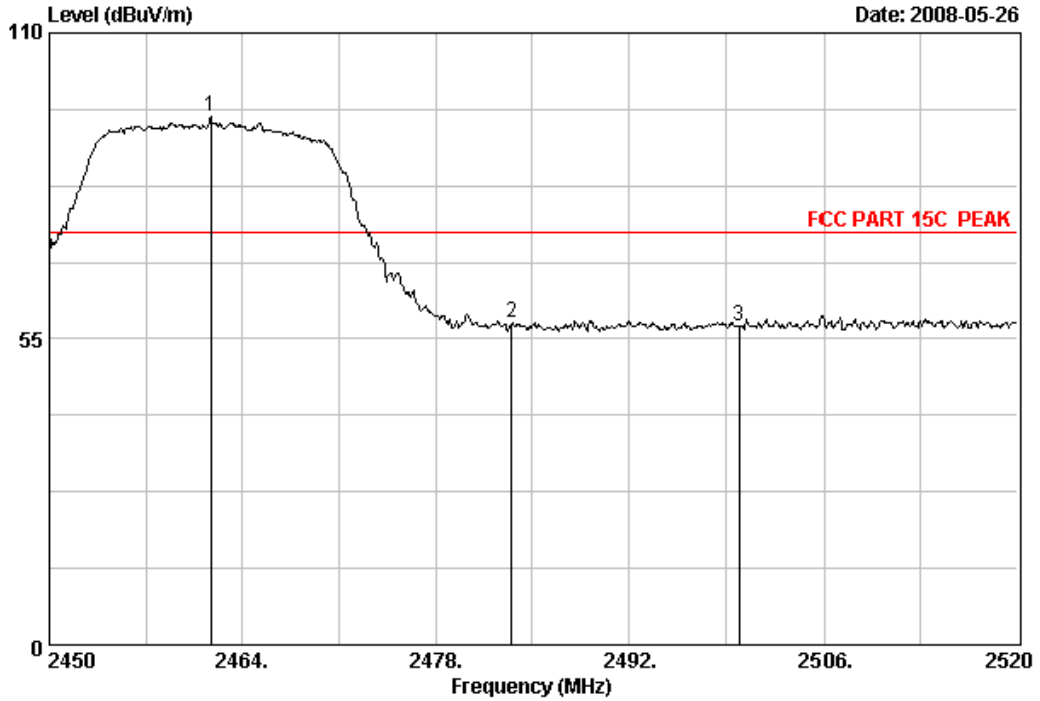
	Ant. Factor	Cable Loss	Amp Factor	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	29.15	6.84	35.17	94.34	95.16	54.00	-41.16	Average
2	29.19	6.87	35.16	47.09	47.99	54.00	6.01	Average
3	29.23	6.91	35.15	46.36	47.35	54.00	6.65	Average

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: 213 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 213
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH11:2462MHz

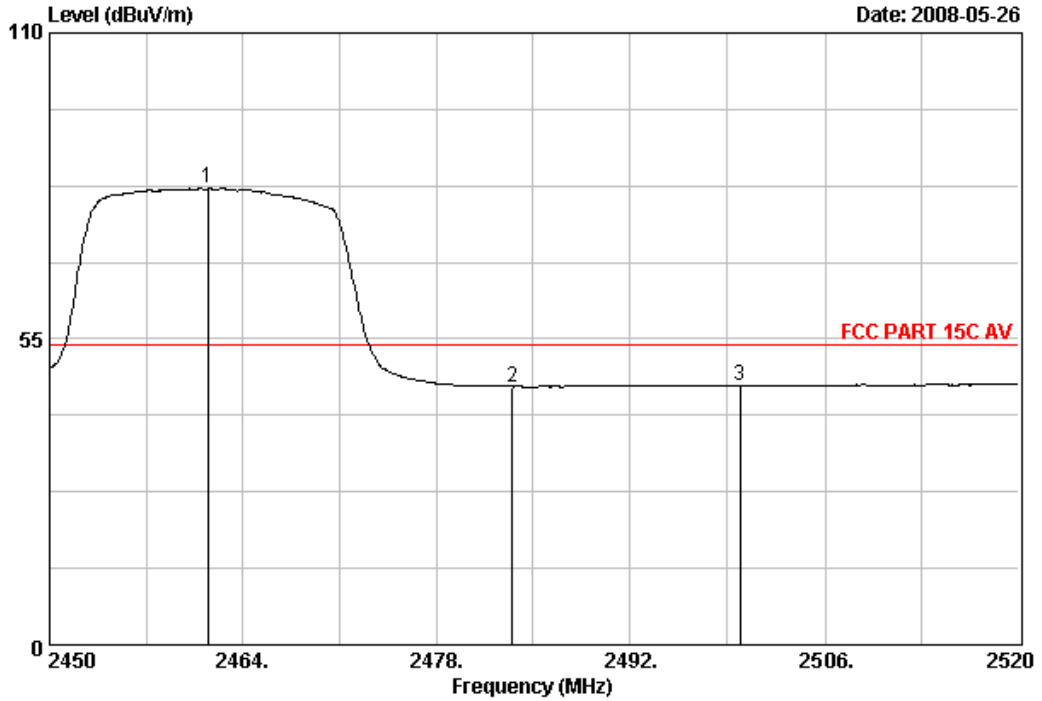
	Freq. (MHz)	Ant. Cable Amp			Emission				Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2461.69	29.15	6.84	35.17	94.02	94.84	74.00	-20.84	Peak
2	2483.50	29.19	6.87	35.16	56.93	57.83	74.00	16.17	Peak
3	2500.00	29.23	6.91	35.15	56.21	57.20	74.00	16.80	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.



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: 214 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 214
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT20 CH11:2462MHz

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2461.48	29.15	6.84	35.17	81.25	82.07	54.00	-28.07	Average
2	2483.50	29.19	6.87	35.16	45.51	46.41	54.00	7.59	Average
3	2500.00	29.23	6.91	35.15	45.59	46.58	54.00	7.42	Average

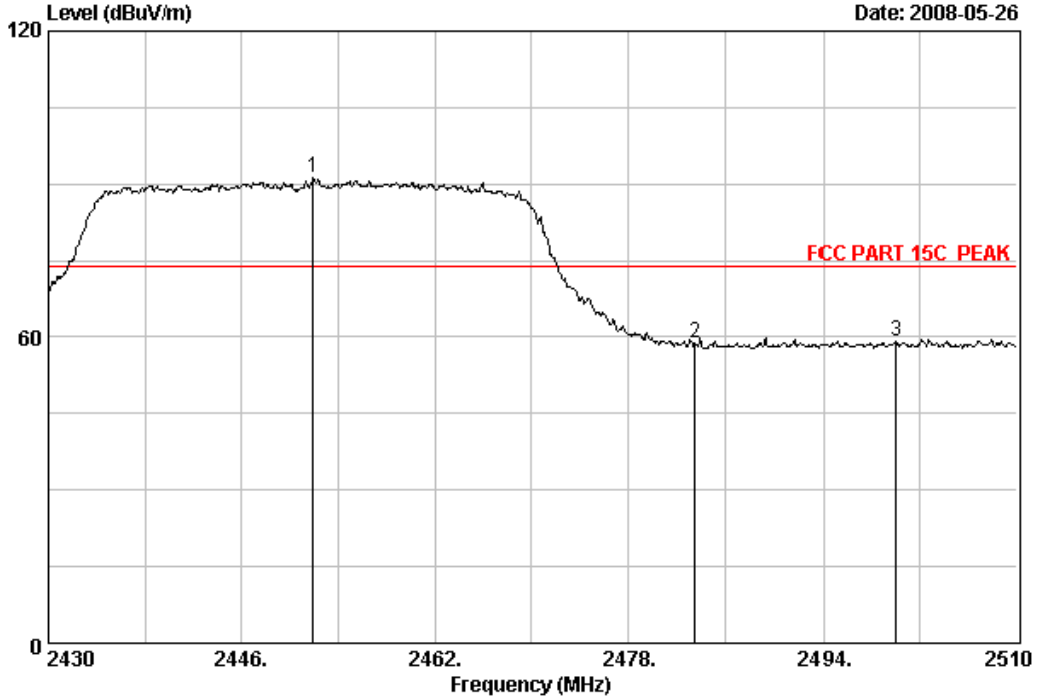
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 215 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (222)

Date: 2008-05-26



Site no. : RF Chamber Data no. : 215
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH7:2452MHz

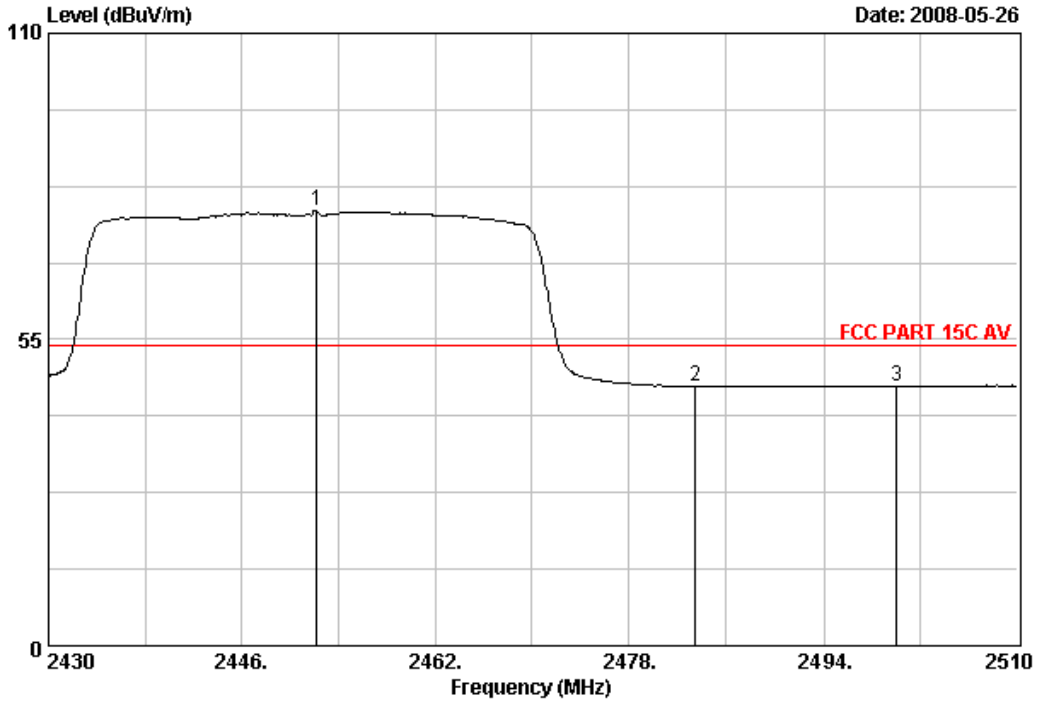
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	29.11	6.84	35.17	90.41	91.19	74.00	-17.19	Peak
2	29.19	6.87	35.16	57.86	58.76	74.00	15.24	Peak
3	29.23	6.91	35.15	58.06	59.05	74.00	14.95	Peak

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: 216 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (222)



Site no. : RF Chamber Data no. : 216
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH7:2452MHz

	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	2452.16	29.11	6.84	35.17	77.32	78.10	54.00	-24.10	Average
2	2483.50	29.19	6.87	35.16	45.69	46.59	54.00	7.41	Average
3	2500.00	29.23	6.91	35.15	45.59	46.58	54.00	7.42	Average

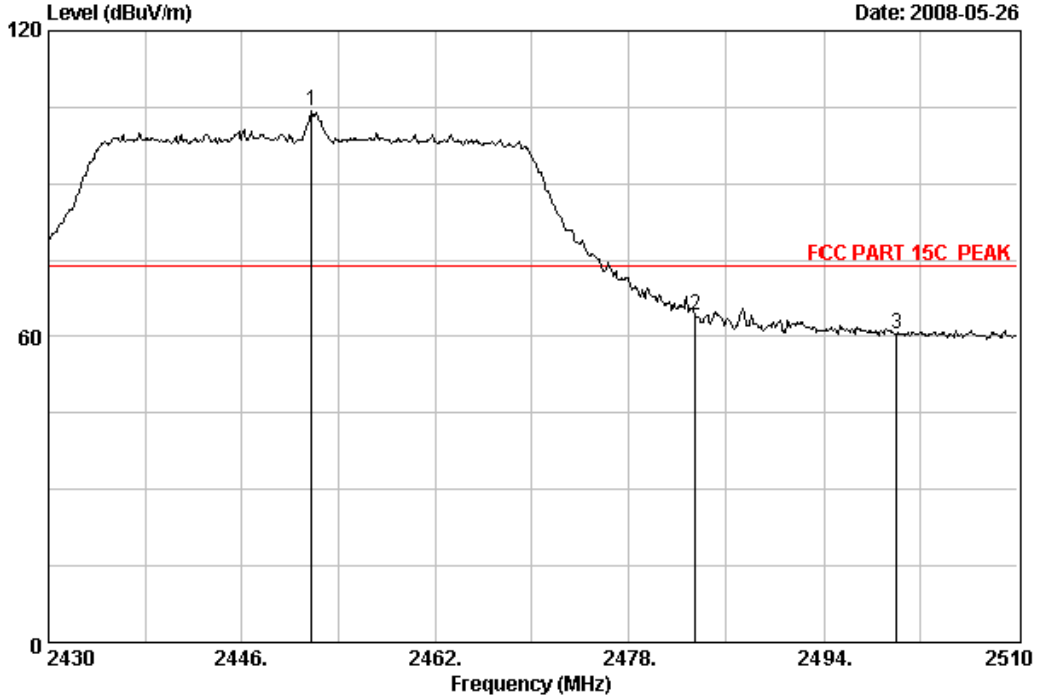
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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: 217 File: D:\2008 report data\T\TP-LINK\ACS80347.EMI (222)

Date: 2008-05-26



Site no. : RF Chamber Data no. : 217
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH7:2452MHz

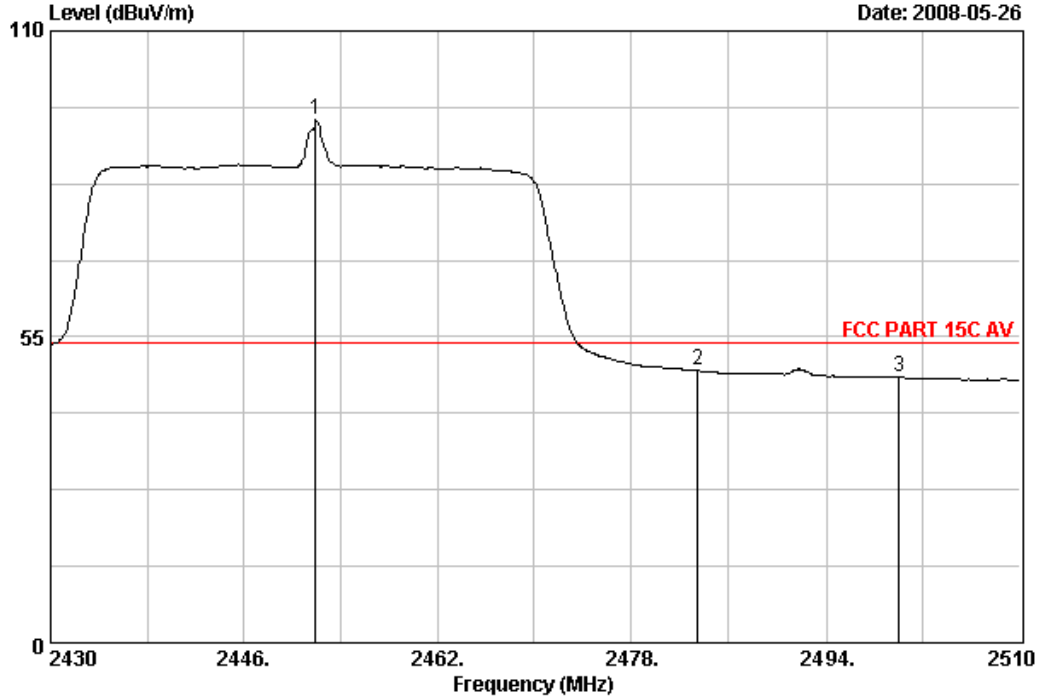
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2451.76	29.11	6.84	35.17	103.54	104.32	74.00	-30.32	Peak
2	2483.50	29.19	6.87	35.16	63.12	64.02	74.00	9.98	Peak
3	2500.00	29.23	6.91	35.15	59.54	60.53	74.00	13.47	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.



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: 218 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 218
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH7:2452MHz

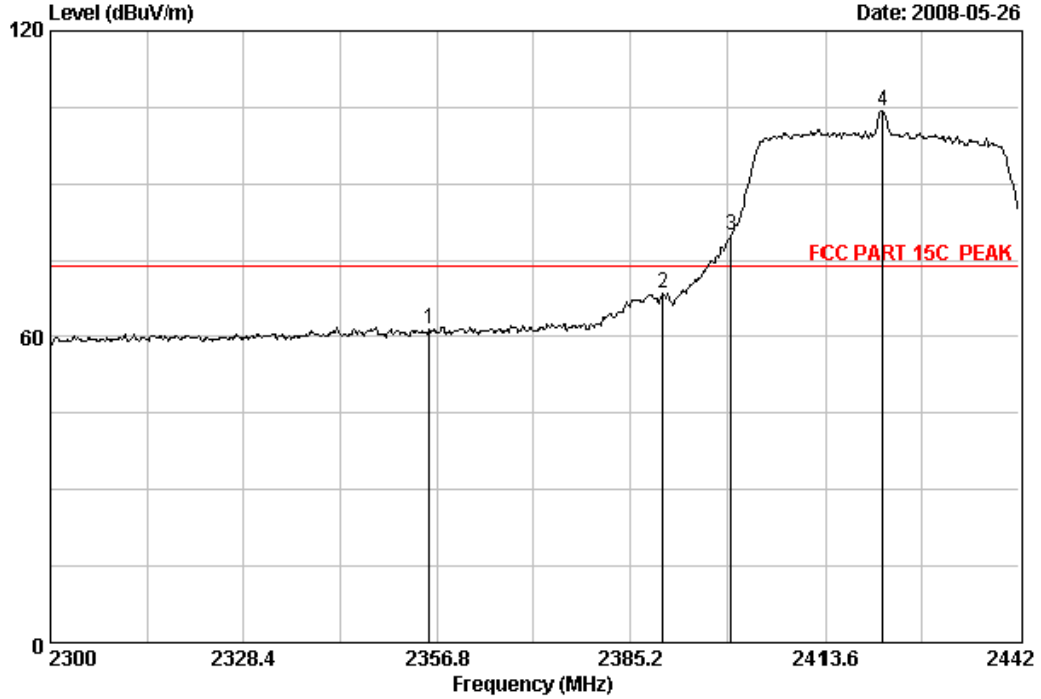
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	29.11	6.84	35.17	93.40	94.18	54.00	-40.18	Average
2	29.19	6.87	35.16	48.03	48.93	54.00	5.07	Average
3	29.23	6.91	35.15	46.68	47.67	54.00	6.33	Average

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: 219 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 219
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH1:2422MHz

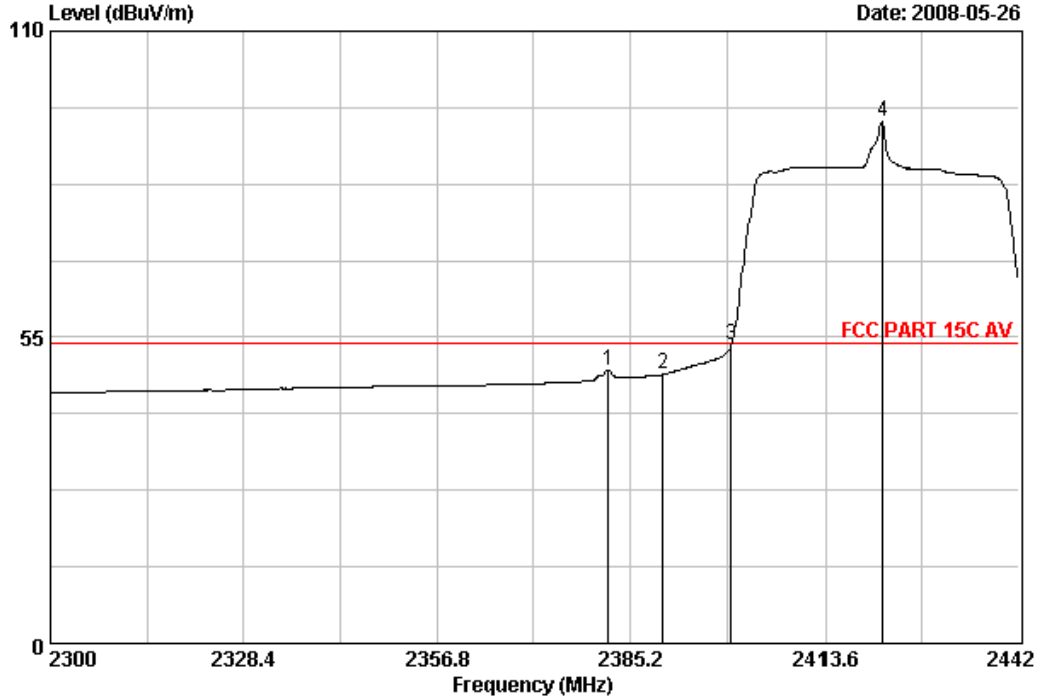
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2355.66	28.91	6.69	35.19	61.07	61.48	74.00	12.52	Peak
2	2390.00	28.99	6.71	35.18	67.86	68.38	74.00	5.62	Peak
3	2400.00	28.99	6.73	35.18	79.39	79.93	74.00	-5.93	Peak
4	2421.98	29.07	6.77	35.17	103.76	104.43	74.00	-30.43	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: 220 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 220
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH1:2422MHz

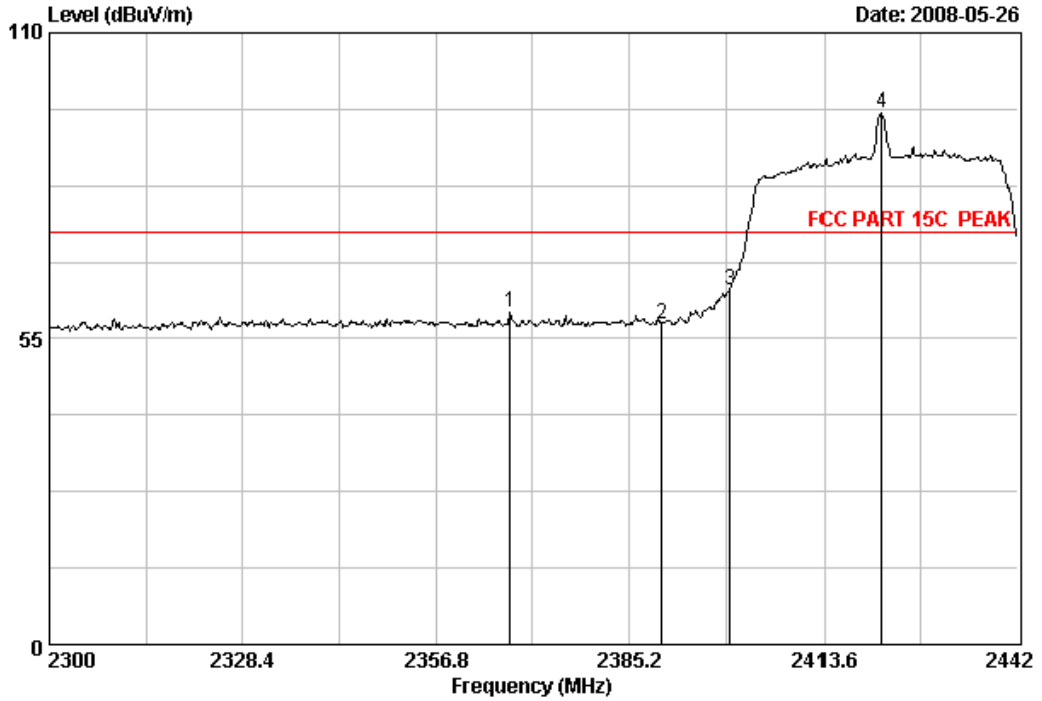
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2381.93	28.95	6.71	35.19	48.63	49.10	54.00	4.90	Average
2	2390.00	28.99	6.71	35.18	47.83	48.35	54.00	5.65	Average
3	2400.00	28.99	6.73	35.18	52.95	53.49	54.00	0.51	Average
4	2421.98	29.07	6.77	35.17	92.98	93.65	54.00	-39.65	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: 221 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 221
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH1:2422MHz

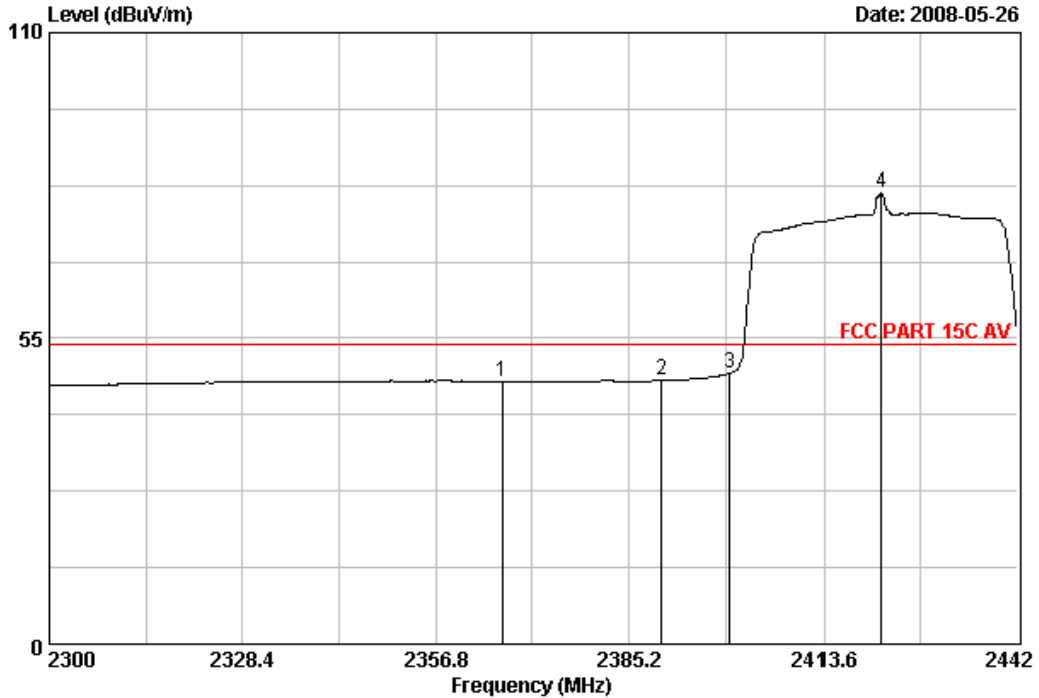
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	28.91	6.69	35.19	59.20	59.61	74.00	14.39	Peak
2	28.99	6.71	35.18	57.24	57.76	74.00	16.24	Peak
3	28.99	6.73	35.18	63.17	63.71	74.00	10.29	Peak
4	29.07	6.77	35.17	94.81	95.48	74.00	-21.48	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.



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: 222 File: D:\2008 report data\T\TP-LINK\ACS8Q347.EMI (222)



Site no. : RF Chamber Data no. : 222
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Wireless N Router M/N:TL-WR941ND
 Power Rating: DC 12 V From adapter 120V/60Hz
 Test Mode : IEEE802.11n HT40 CH1:2422MHz

	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	2366.60	28.91	6.69	35.19	46.93	47.34	54.00	6.66	Average
2	2390.00	28.99	6.71	35.18	46.84	47.36	54.00	6.64	Average
3	2400.00	28.99	6.73	35.18	48.22	48.76	54.00	5.24	Average
4	2421.98	29.07	6.77	35.17	80.37	81.04	54.00	-27.04	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.

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-WR941ND
Test Date:	Apr.30, 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

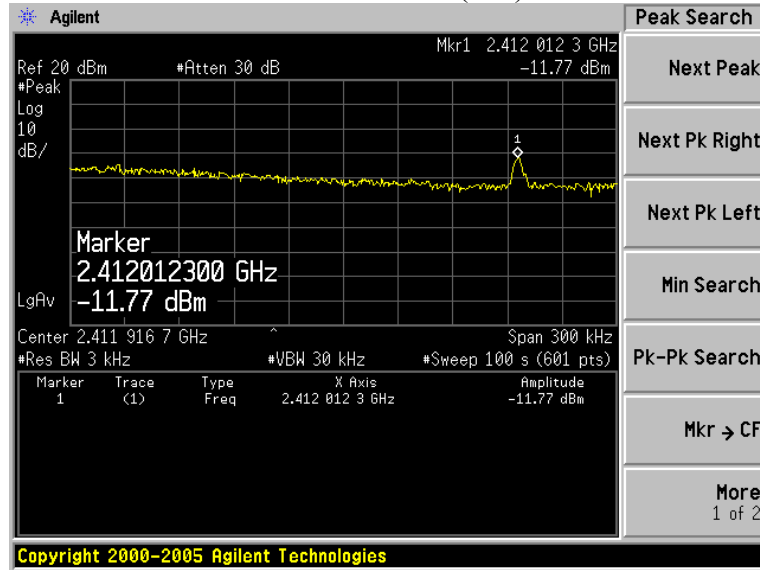
8.3. Test Procedure

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.

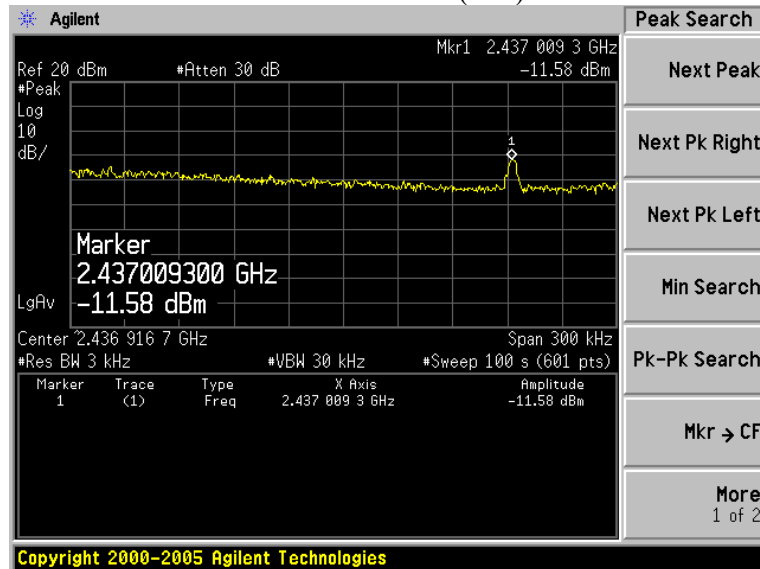
8.4.Test Results

Maximum Power density									
EUT: Wireless N Router M/N:TL-WR941ND									
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°C				Relative Humidity: 60%					
Test date:2008/04/30				Test site: RF site		Tested By: Jamy			
Cable Loss: 0.6dB Antenna Gain:2dBi									
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		Chain3		Result	
		Read (dBm)	Level (dBm)	Read (dBm)	Level (dBm)	Read (dBm)	Level (dBm)	Total Power (dBm)	Limit
11b	CH1	-11.77	-11.17	-11.99	-11.39	-12.95	-12.35	-6.84	8.00
	CH6	-11.58	-10.98	-12.48	-11.88	-12.76	-12.16	-6.87	8.00
	CH11	-11.59	-10.99	-10.49	-9.89	-12.81	-12.21	-6.16	8.00
11g	CH1	-18.63	-18.03	-19.44	-18.84	-20.25	-19.65	-14.02	8.00
	CH6	-19.19	-18.59	-19.68	-19.08	-20.33	-19.73	-14.34	8.00
	CH11	-19.32	-18.72	-17.01	-16.41	-20.32	-19.72	-13.28	8.00
11n HT20	CH1	-19.55	-18.95	-20.18	-19.58	-20.45	-19.85	-14.67	8.00
	CH6	-20.44	-19.84	-19.98	-19.38	-20.37	-19.77	-14.89	8.00
	CH11	-19.94	-19.34	-20.76	-20.16	-20.08	-19.48	-14.87	8.00
11n HT40	CH1	-24.45	-23.85	-23.12	-22.52	-19.52	-18.92	-16.47	8.00
	CH4	-23.45	-22.85	-22.37	-21.77	-20.40	-19.80	-16.51	8.00
	CH7	-24.70	-24.10	-22.61	-22.01	-20.52	-19.92	-16.91	8.00
Note1:According Exploratory test, These data rate have the maximum output power									
Note2:Level=Read+ cable loss Total power=Chain1 Level +Chain2 Level+Chain3 Level(Linear)									

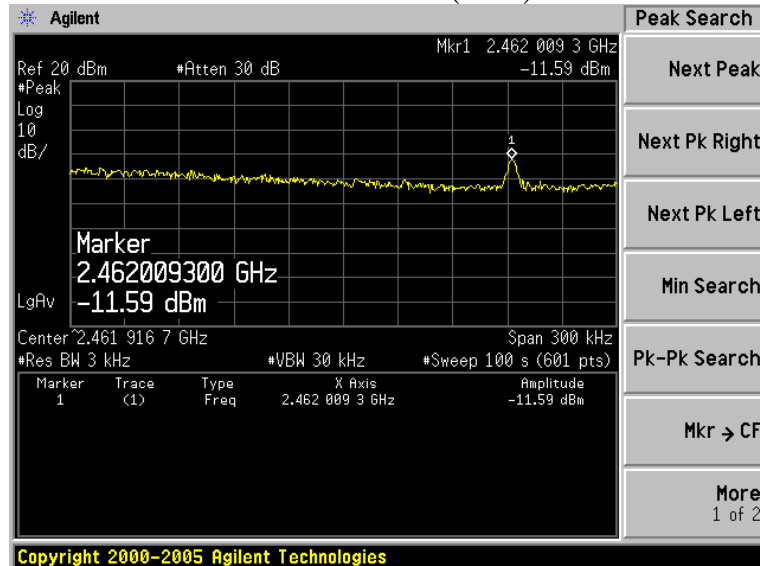
CHAIN1:
IEEE 802.11b (ch1)



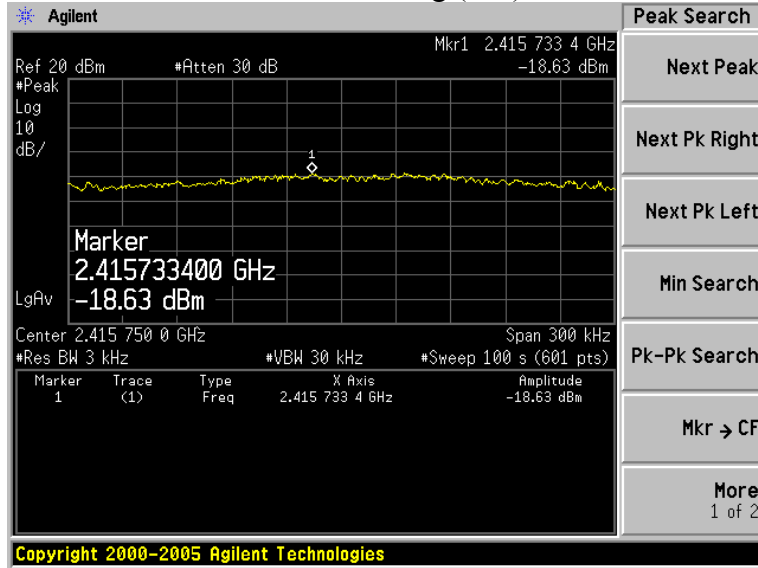
IEEE 802.11b (ch6)



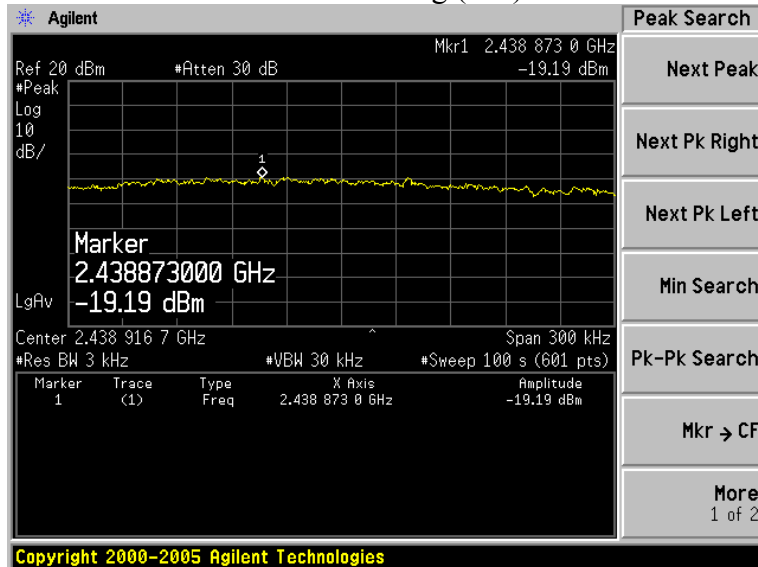
IEEE 802.11b (ch11)



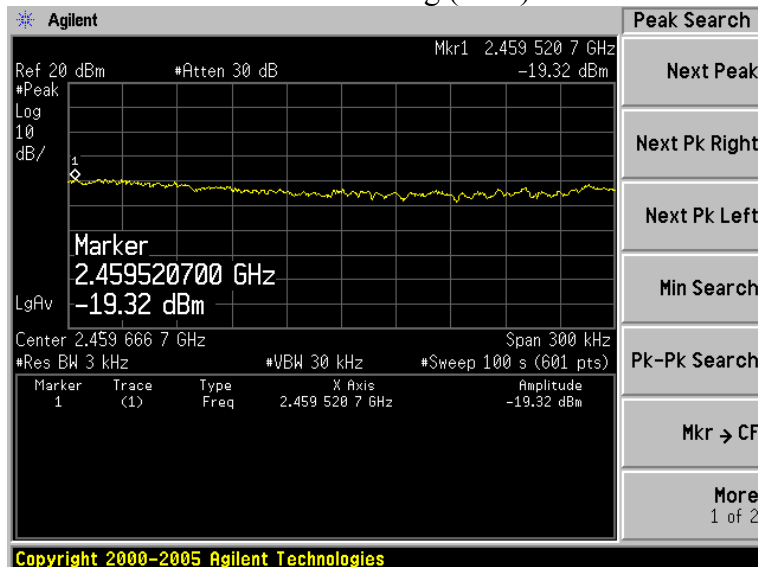
IEEE 802.11g (ch1)



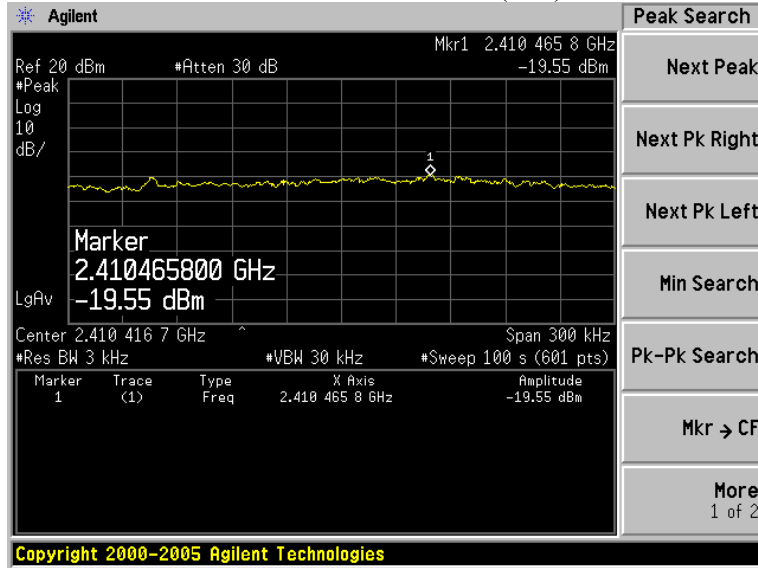
IEEE 802.11g (ch6)



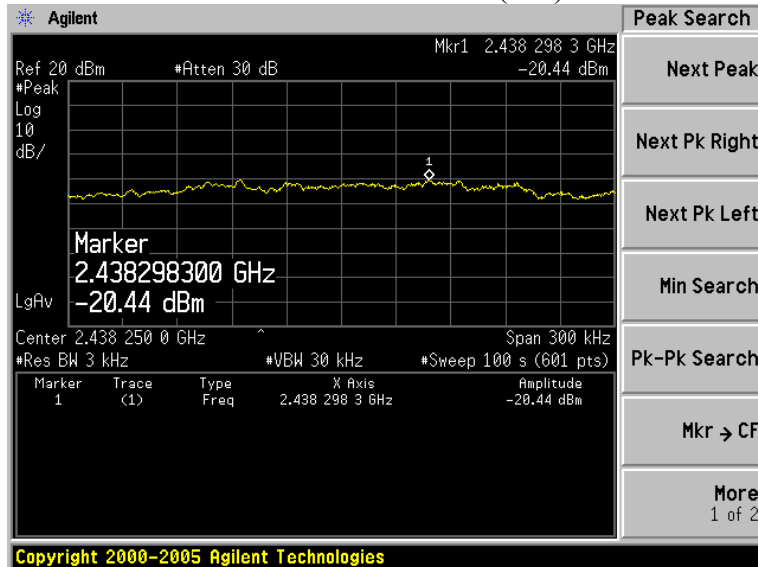
IEEE 802.11g (ch11)



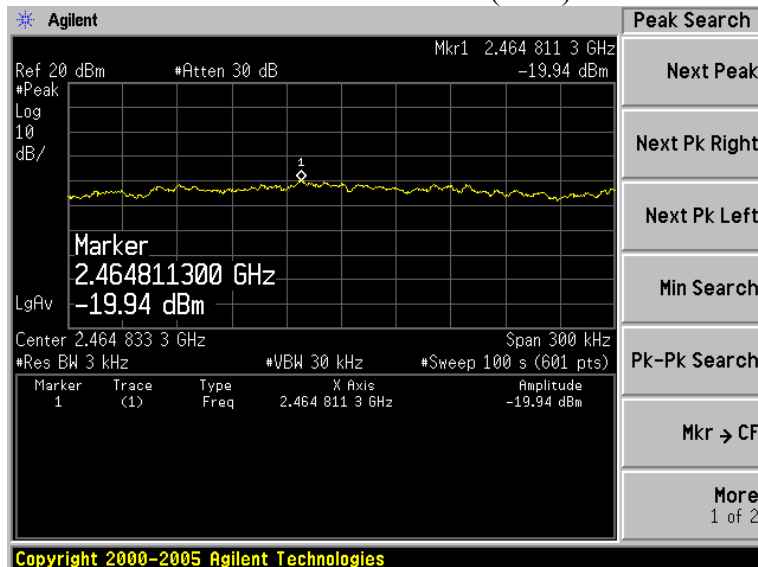
IEEE 802.11n HT20 (ch1)



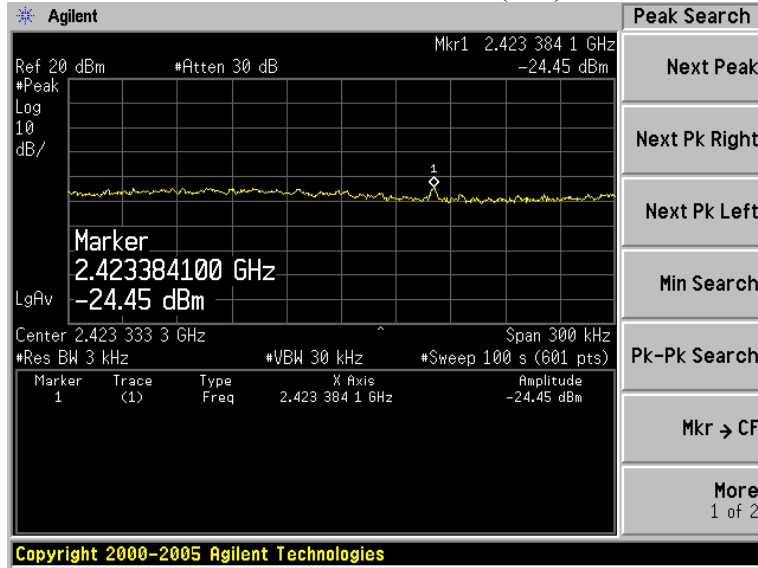
IEEE 802.11n HT20 (ch6)



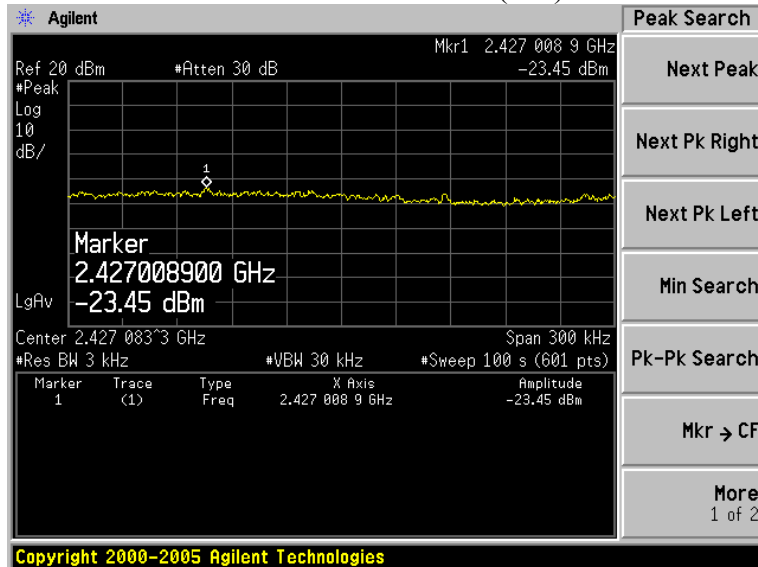
IEEE 802.11n HT20 (ch11)



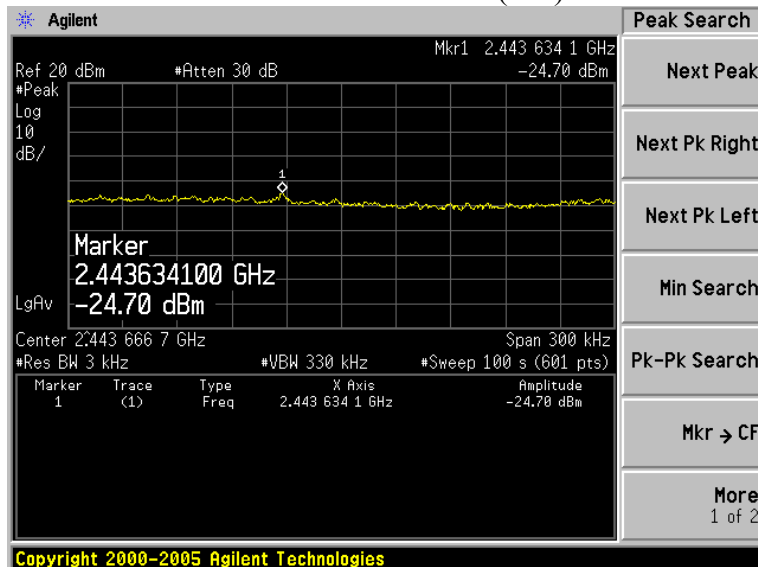
IEEE 802.11n HT40 (ch1)



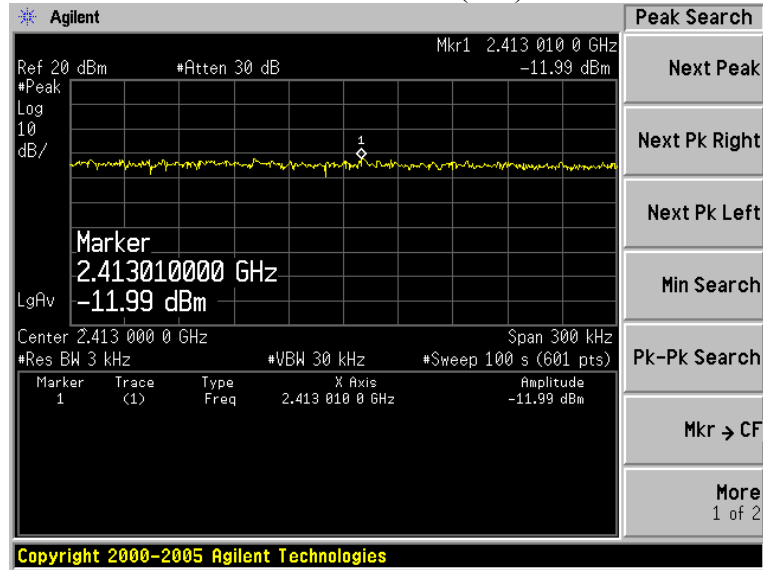
IEEE 802.11n HT40 (ch4)



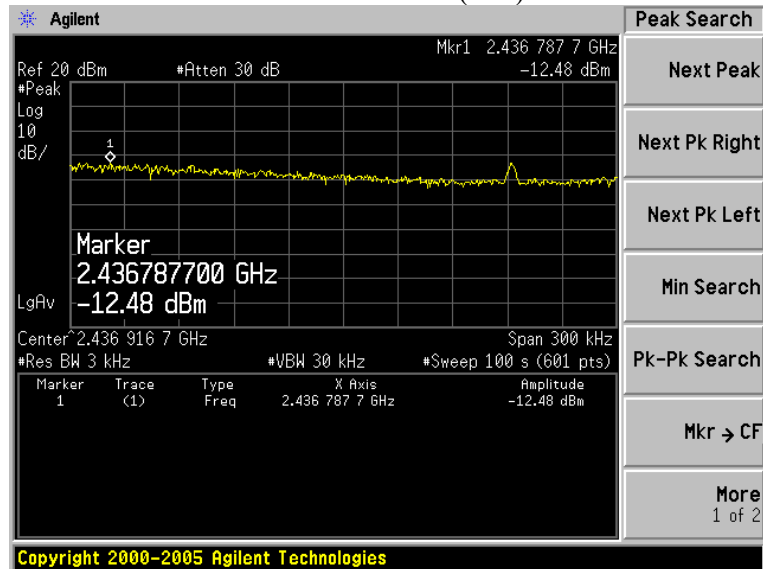
IEEE 802.11n HT40 (ch7)



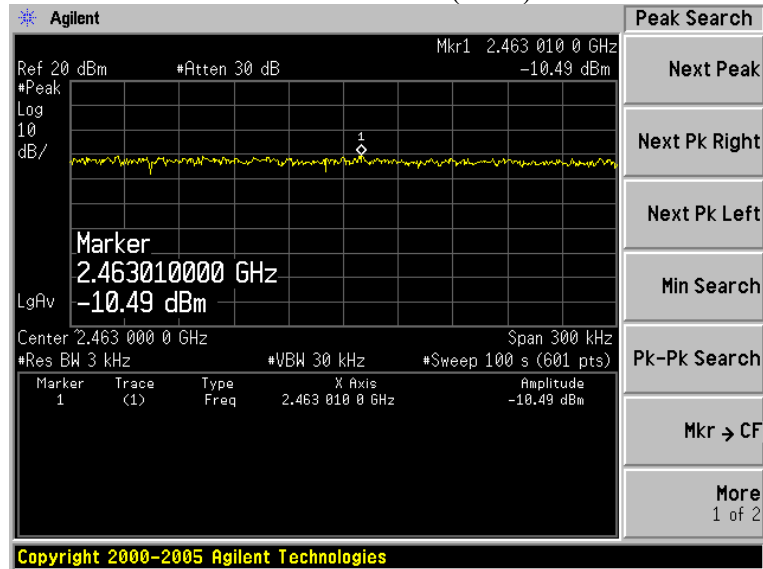
CHAIN2:
IEEE 802.11b (ch1)



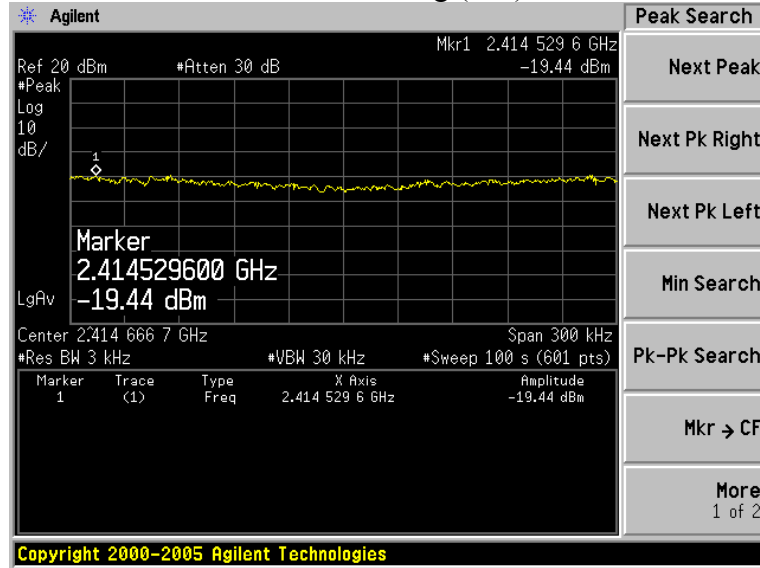
IEEE 802.11b (ch6)



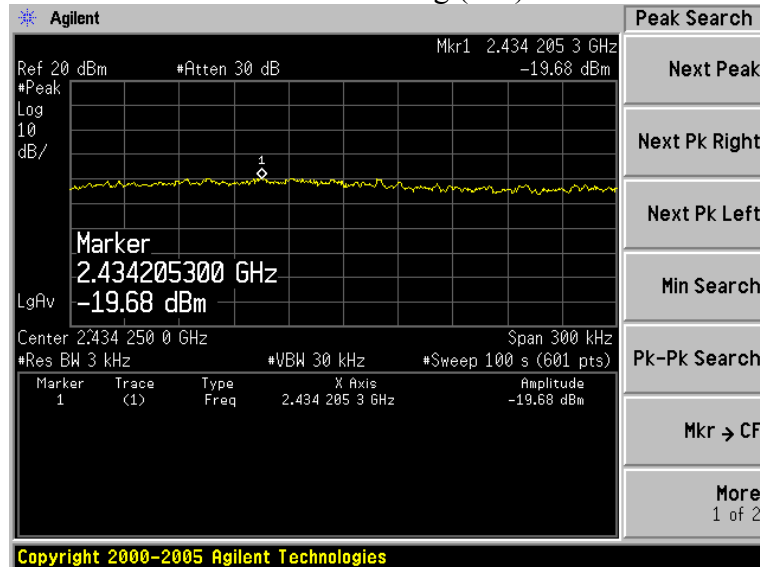
IEEE 802.11b (ch11)



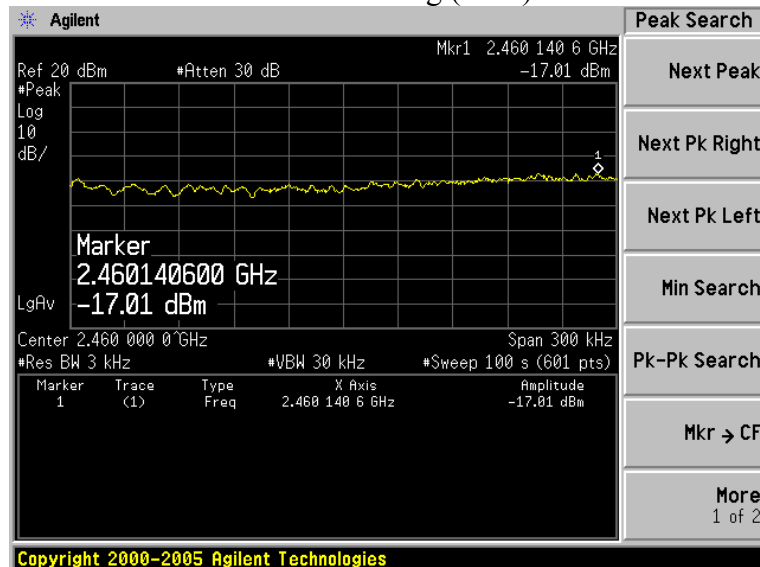
IEEE 802.11g (ch1)



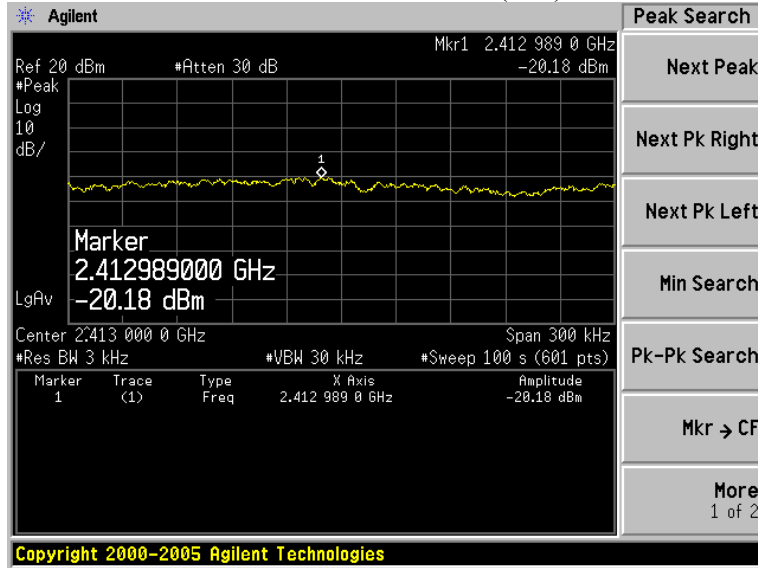
IEEE 802.11g (ch6)



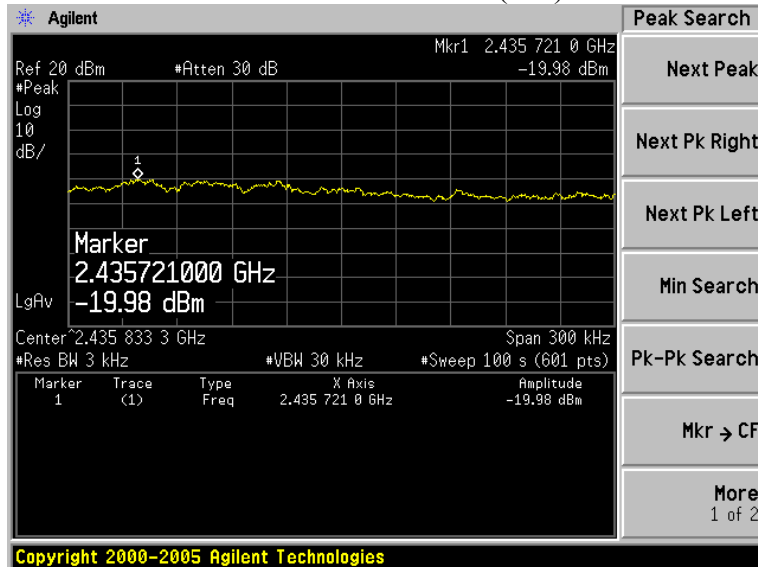
IEEE 802.11g (ch11)



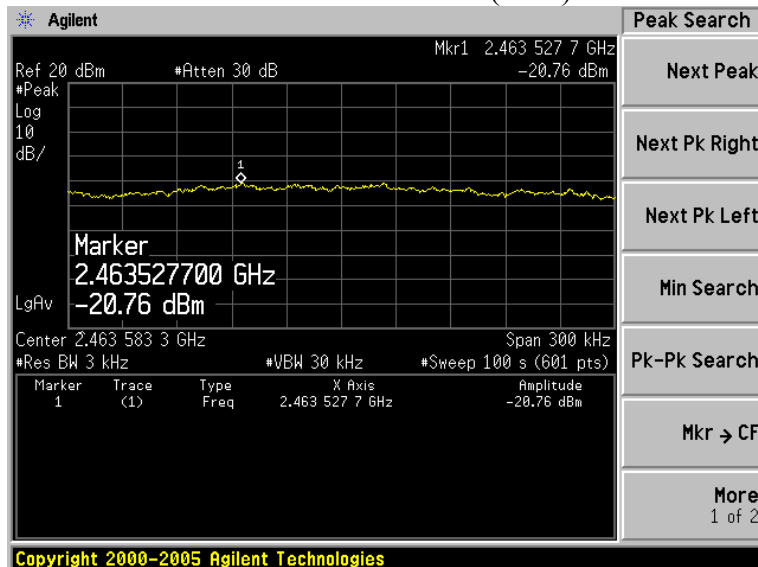
IEEE 802.11n HT20 (ch1)



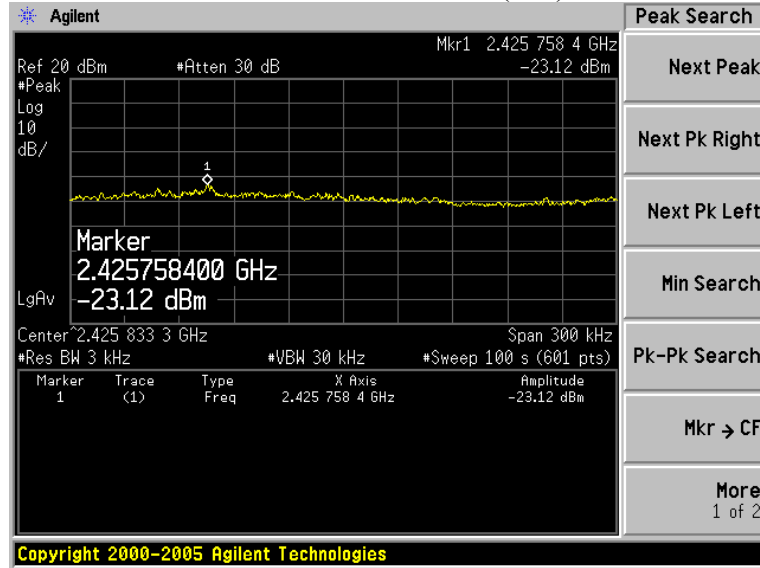
IEEE 802.11n HT20 (ch6)



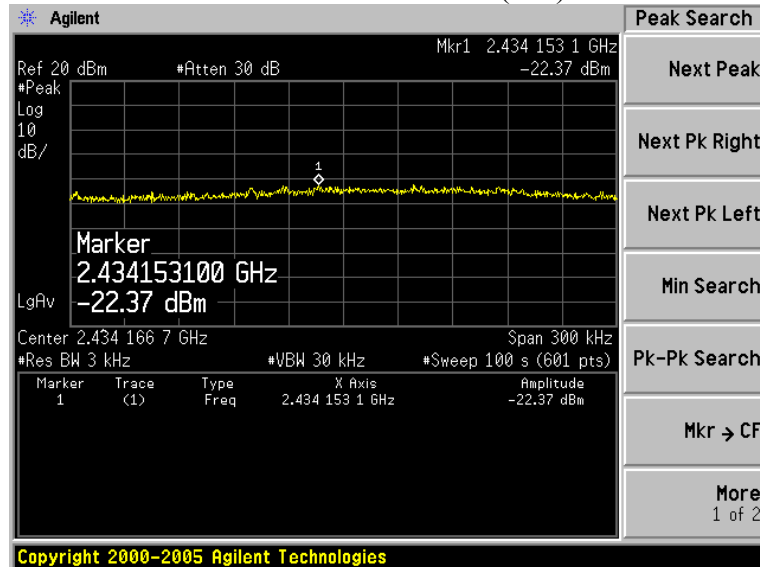
IEEE 802.11n HT20 (ch11)



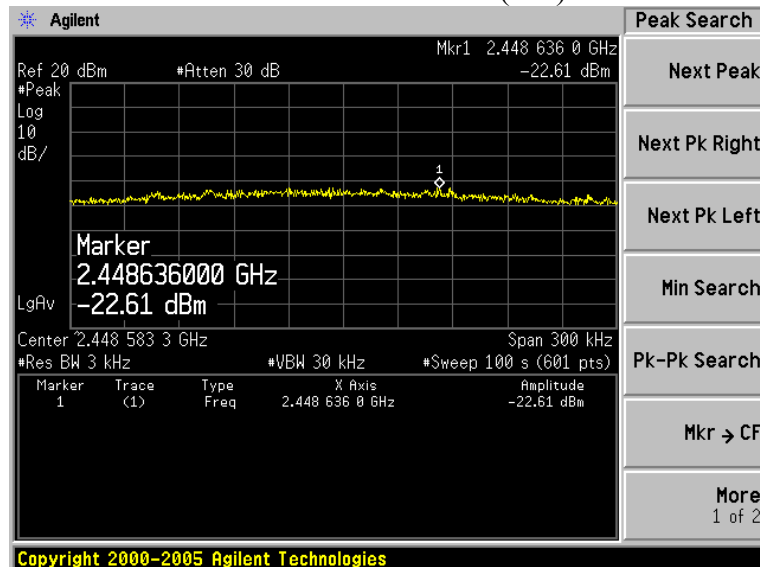
IEEE 802.11n HT40 (ch1)



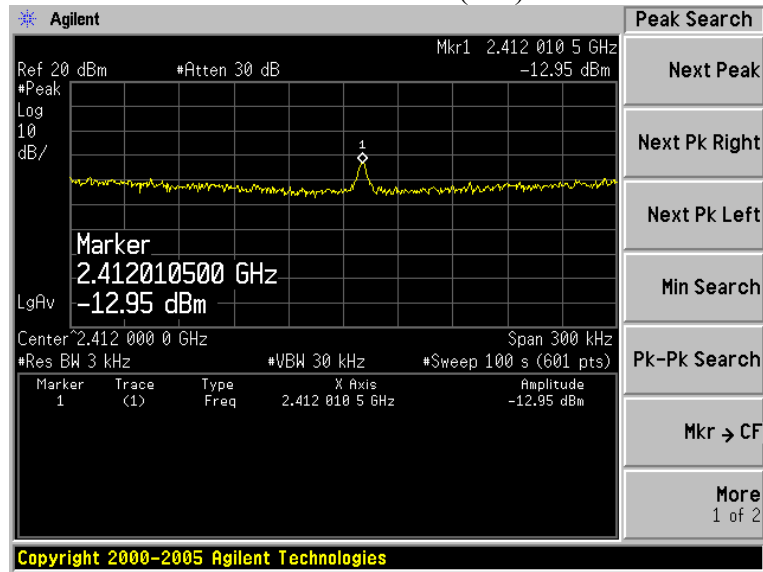
IEEE 802.11n HT40 (ch4)



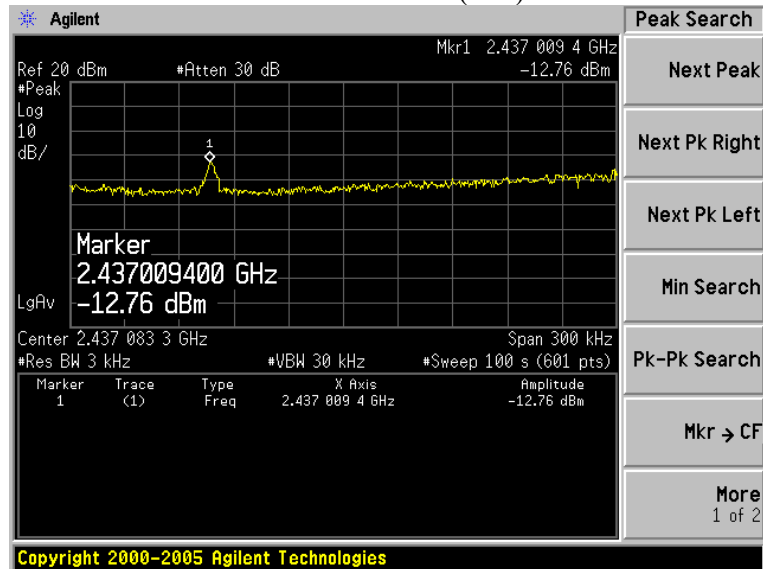
IEEE 802.11n HT40 (ch7)



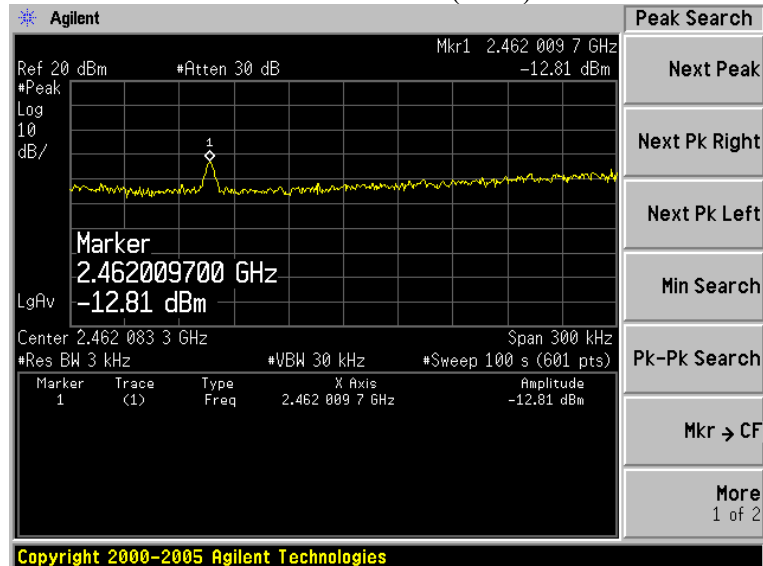
CHAIN3:
IEEE 802.11b (ch1)



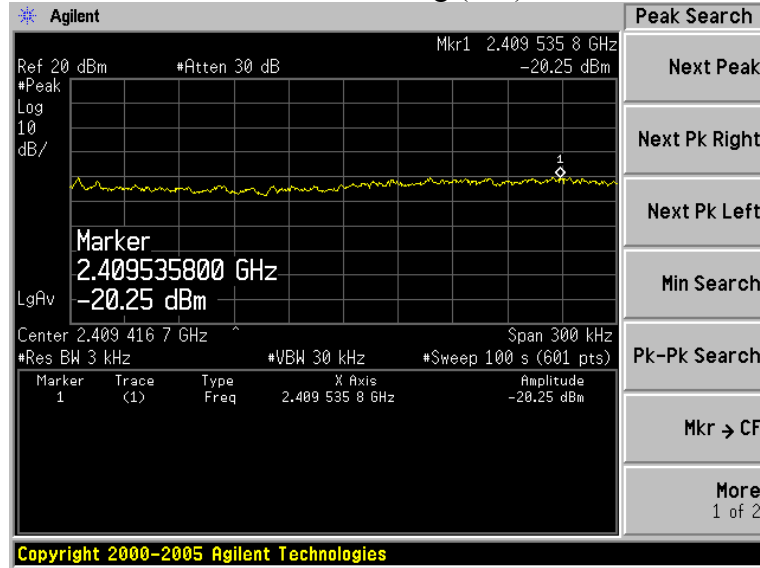
IEEE 802.11b (ch6)



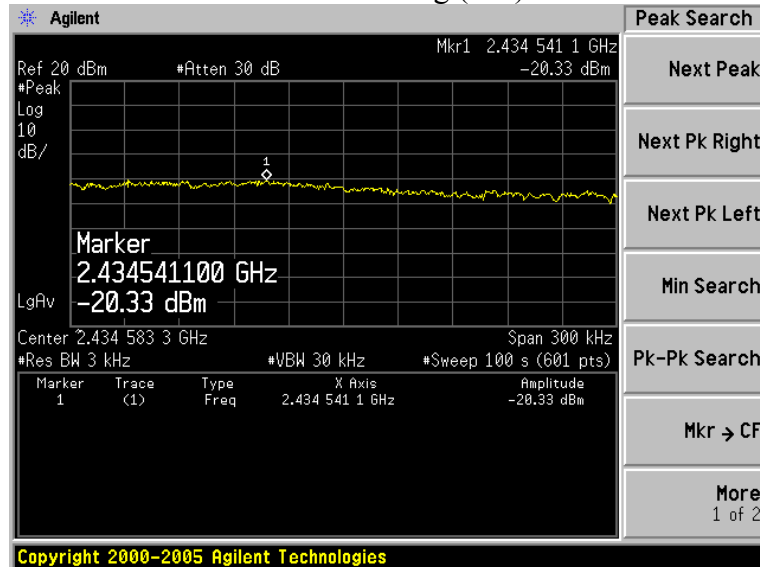
IEEE 802.11b (ch11)



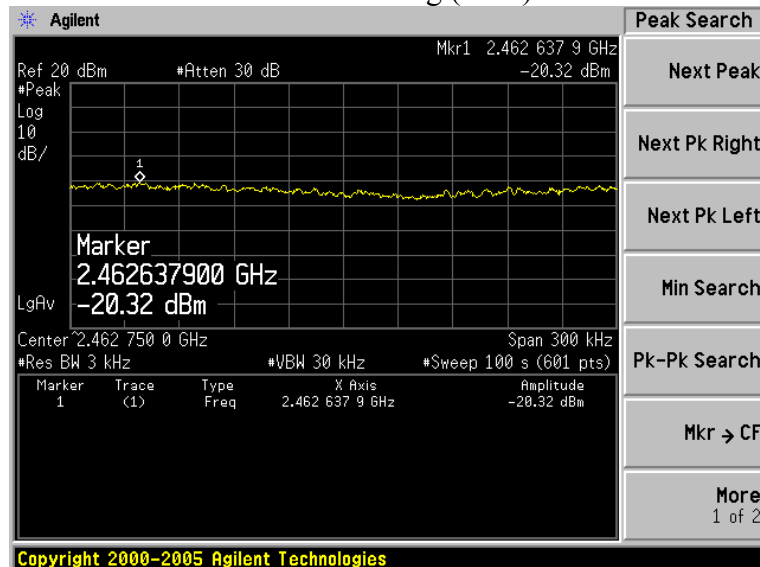
IEEE 802.11g (ch1)



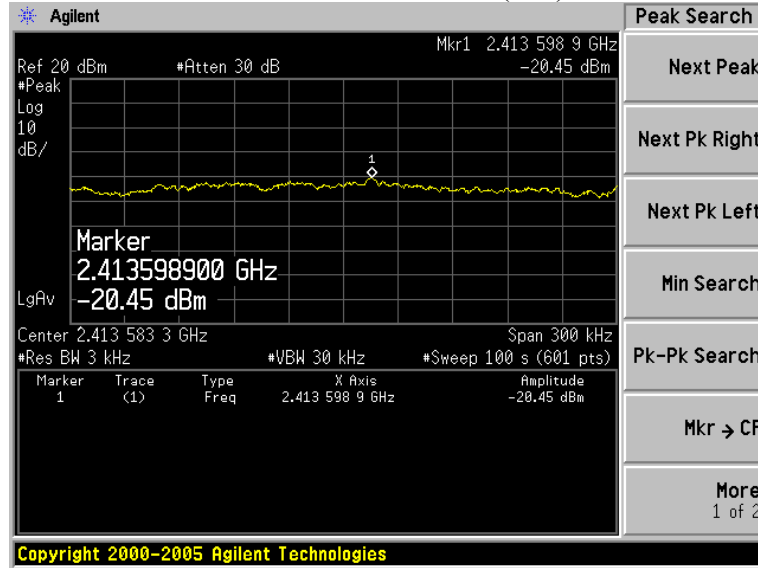
IEEE 802.11g (ch6)



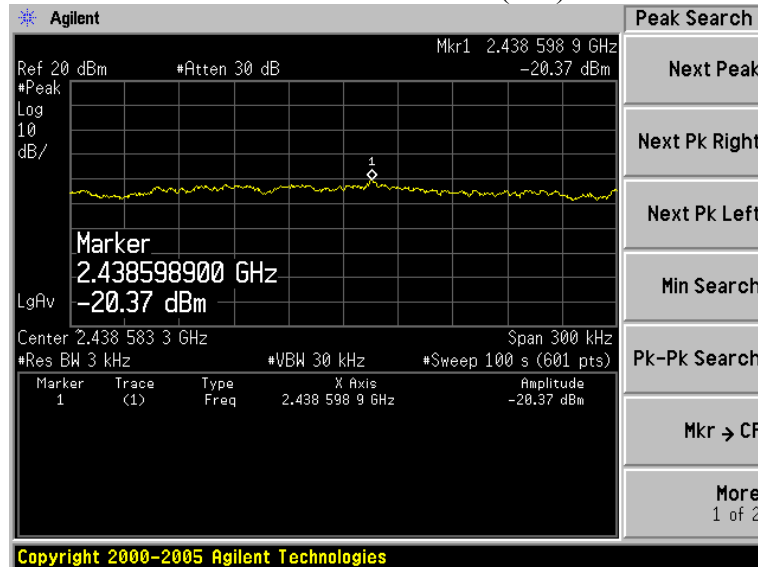
IEEE 802.11g (ch11)



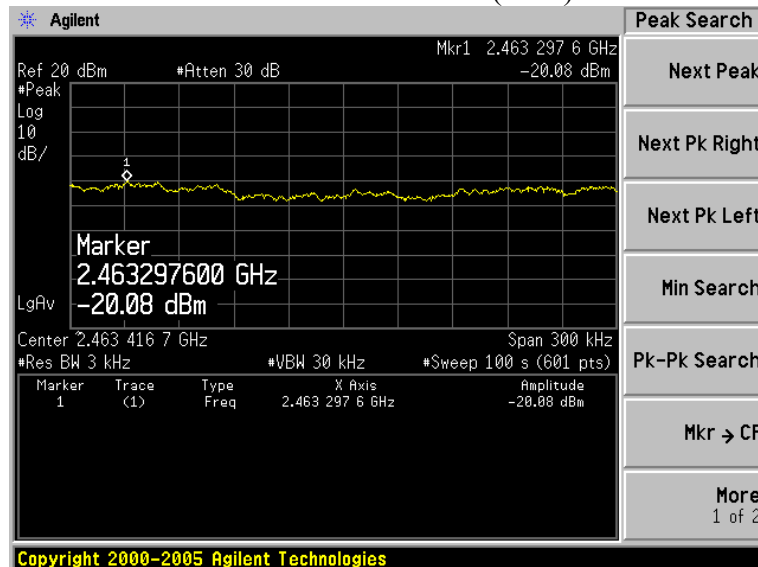
IEEE 802.11n HT20 (ch1)



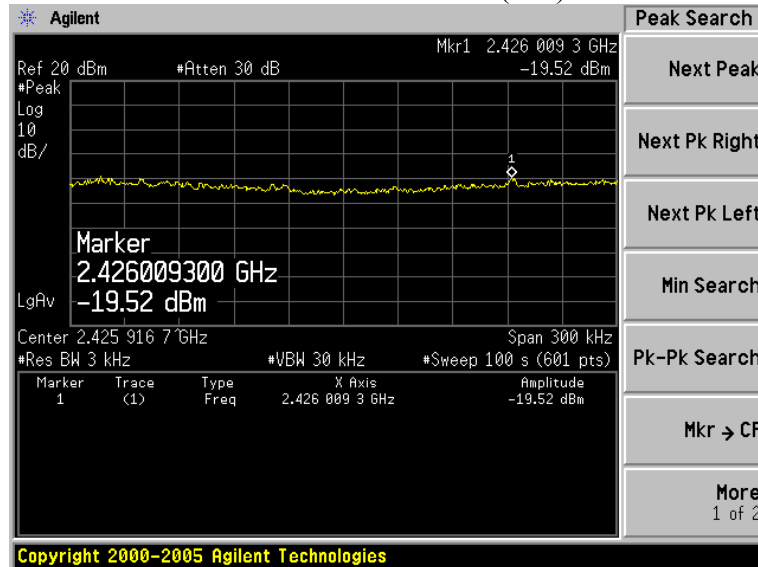
IEEE 802.11n HT20 (ch6)



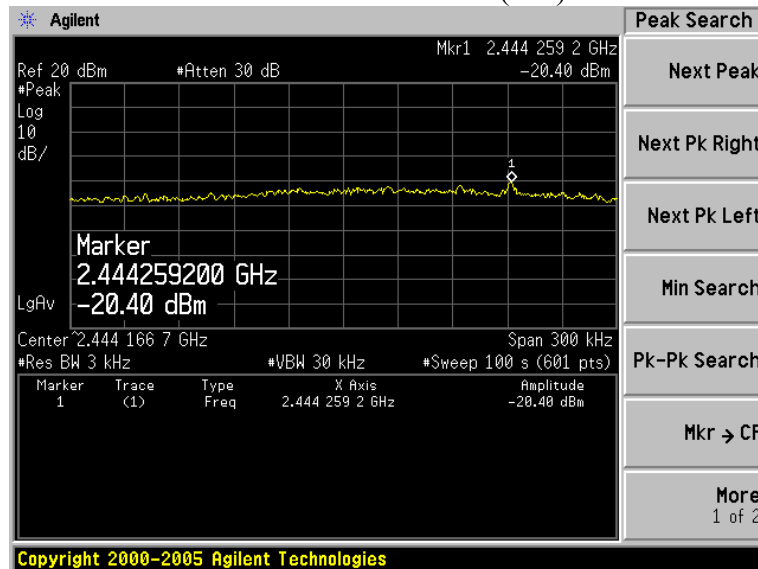
IEEE 802.11n HT20 (ch11)



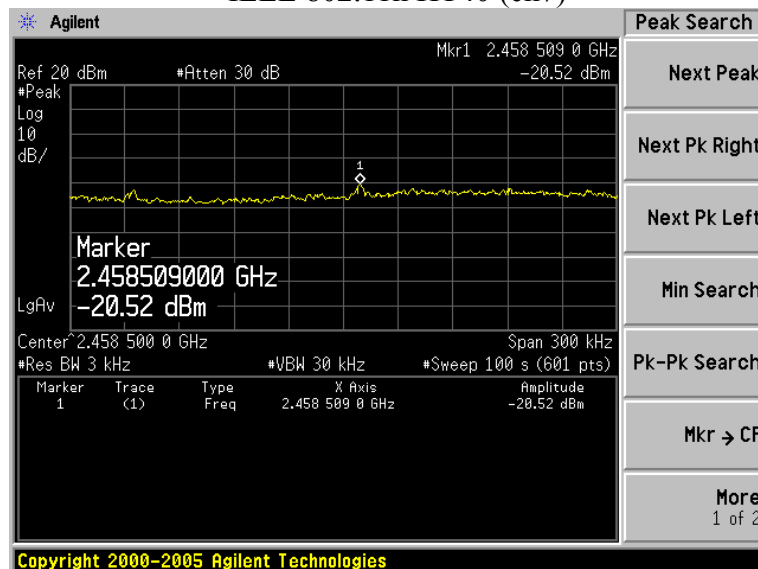
IEEE 802.11n HT40 (ch1)



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	0.6	30
2437	0.61	30
2462	0.62	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) at 20cm
IEEE802.11b	CH1:2412MHz	20.27	106.41	2	0.03
	CH6:2437MHz	20.38	109.14	2	0.03
	CH11:2462MHz	20.54	113.24	2	0.04
IEEE802.11g	CH1:2412MHz	22.38	172.98	2	0.05
	CH6:2437MHz	22.53	179.06	2	0.06
	CH11:2462MHz	22.56	180.3	2	0.06
IEEE802.11n HT20	CH1:2412MHz	22.69	185.78	2	0.06
	CH6:2437MHz	22.65	184.08	2	0.06
	CH11:2462MHz	22.6	181.97	2	0.06
IEEE802.11n HT40	CH1:2422MHz	24.28	267.92	2	0.08
	CH4:2437MHz	24.07	255.27	2	0.08
	CH7:2452MHz	24.01	251.77	2	0.08

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 2dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]