

APPLICATION FOR CERTIFICATION  
On Behalf of

Accton Technology Corporation

EliteConnect™ Dualband Wireless Cardbus Adapter

Model Number: SMC2536W-AG2

Prepared for : Accton Technology Corporation  
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Report Number : ACS-F08264  
Date of Test : Mar.23~May.14, 2008  
Date of Report : May.20, 2008

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## TEST REPORT FOR CERTIFICATION

Applicant : Accton Technology Corporation  
 Manufacturer : TP-LINK Technologies Co., Ltd.  
 EUT Description : EliteConnect™ Dualband Wireless Cardbus Adapter  
 (A) MODEL NO. : SMC2536W-AG2  
 (B) SERIAL NO. : N/A  
 (C) POWER SUPPLY : DC 3.3V  
 (D) TEST VOLTAGE : DC 3.3V From PC 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.23~May.14, 2008

Prepared by : YoYo Wang  
YoYo Wang / Assistant

Reviewer : Jamy Yu  
Jamy Yu / Senior Engineer

Approved & Authorized Signer : Ken Lu  
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	:	EliteConnect™ Dualband Wireless Cardbus Adapter
Model Number	:	SMC2536W-AG2
Operation frequency	:	IEEE 802.11b/g: 2412MHz --- 2462MHz IEEE 802.11a: 5150MHz-5350MHz and 5725MHz—5850MHz(see note)
Channel Number	:	IEEE 802.11b/g:11 Channels ; IEEE 802.11a:19 Channels
Modulation Technology	:	DSSS for IEEE 802.11b and OFDM for IEEE 802.11g IEEE802.11a: OFDM
Data Rate	:	IEEE 802.11b: 11/5.5/2/1Mbps. IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps. IEEE 802.11a: 54/48/36/24/18/12/9/6
Output power	:	2.4GHz :20.80dBm(Maximum Peak measured) 5GHz:22.87dBm(Maximum Peak measured)
Antenna Assembly Gain	:	2.412MHz—2462MHz:0.44dBi (maximum) 5150MHz ---5350MHz:4.09dBi(maximum) 5725MHz—5850MHz:2.91dBi(maximum)
Applicant	:	Accton Technology Corporation No. 1 Creation Rd. III, Science-based Industrial Park, Hsinchu 30077, Taiwan, R.O.C
Manufacturer	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan District, Shenzhen, China
Date of Test	:	Mar.23~May.14, 2008
Date of Receipt	:	Mar.20, 2008
Sample Type	:	Prototype production
<p>Note: This report is only for IEEE802.11b/g mode, and for IEEE802.11a 5GHz work frequency test report please see another RF test report for this EUT. The report No is: EM-F970331</p>		

## 2.2.Date rate VS power

Mode	Data rate(Mbps)	CH	Level (dBm)	Limit (dBm)
11b	1	CH6	18.43	<b>30</b>
	2	CH6	18.40	<b>30</b>
	5.5	CH6	18.32	<b>30</b>
	11	CH6	18.39	<b>30</b>
11g	6	CH6	20.80	<b>30</b>
	9	CH6	20.32	<b>30</b>
	12	CH6	19.88	<b>30</b>
	18	CH6	20.43	<b>30</b>
	24	CH6	20.34	<b>30</b>
	36	CH6	20.01	<b>30</b>
	48	CH6	20.15	<b>30</b>
	54	CH6	20.35	<b>30</b>
When IEEE 802.11b's data rate was 1Mbps; IEEE 802.11g's data rate was 6Mbps the EUT have maximum output power and all the test was performed in this data rate set.				

## 2.3.Tested Supporting System Details

### 2.3.1.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)

## 2.4. 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	MU	Remark
1	Uncertainty for Conducted Emission Test	2.02dB	
2	Uncertainty for Radiated Emission Test<1GHz	3.44 dB	Polarize: V
		3.96 dB	Polarize: H
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB	
4.	Uncertainty for Frequency measure	$0.42 \times 10^{-6}$	
5.	Uncertainty for conducted power measure	0.112	



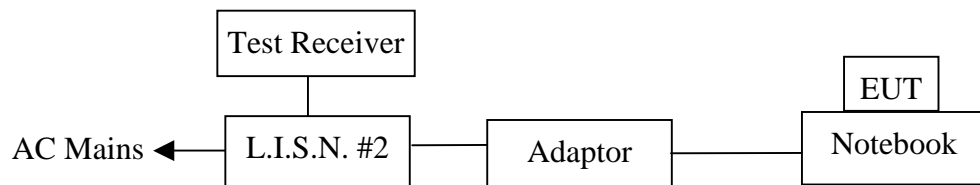
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.19, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jan.09, 08	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Jan.09,08	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jan.09,08	1/2 Year

#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block diagram of connection between the EUT and simulators



*(EUT: EliteConnect™ Dualband Wireless Cardbus Adapter)*

#### 3.3. Power Line Conducted Emission Test Limits

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

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

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

#### 3.4. Configuration of EUT on Test

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

##### 3.4.1. EliteConnect™ Dualband Wireless Cardbus Adapter (EUT)

Model Number : SMC2536W-AG2  
 Serial Number : N/A  
 Manufacturer : TP-LINK Technologies Co., Ltd.

##### 3.4.2. Supporting 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 to control EUT Work in test mode (Tx Mode)

### 3.6. Test Procedure

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

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

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

The test result are reported on Section 3.7.,

### 3.7. Power Line Conducted Emission Test Results

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

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

EUT: EliteConnect™ Dualband Wireless Cardbus Adapter

Model No. : SMC2536W-AG2

Test Date: May.14, 2008

Temperature: 29.5°C

Humidity: 55%

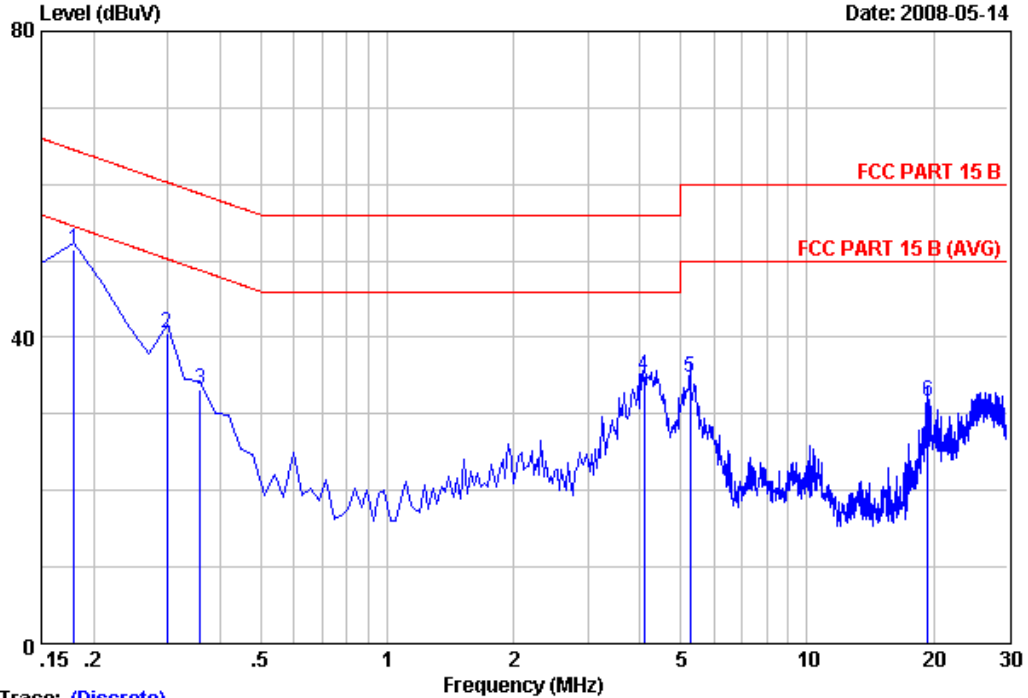
The details of test modes are as follows :

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



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Postcode:518057

Data: 1 File: D:\emc 002\DATA\2008 Report\T\TP-LINK\ACS8Q163.EMI (4)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :1  
 Dis./Ant. :-- KNW407 VA (1#) LISN phase:  
 Limit :FCC PART 15 B  
 Env./Ins. :29.5\*C/55% ESHS 10 Engineer :Sunny  
 EUT :EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating :DC 3.3 V From PC AC120V/60Hz  
 Test Mode :TX Mode  
 M/N :SMC2536W-AG2

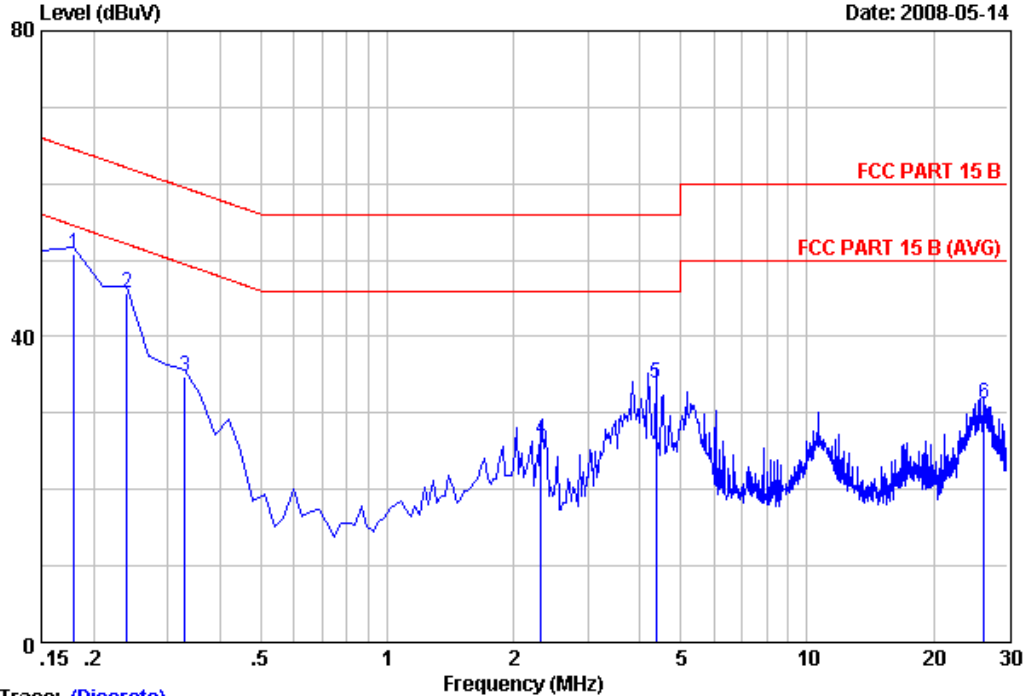
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.18	10.15	41.15	51.48	64.49	13.01	QP
2	0.30	0.12	10.15	30.37	40.64	60.26	19.62	QP
3	0.36	0.10	10.14	23.00	33.24	58.75	25.51	QP
4	4.09	0.09	10.18	24.73	35.00	56.00	21.00	QP
5	5.25	0.10	10.19	24.45	34.74	60.00	25.26	QP
6	19.40	0.44	10.38	20.91	31.73	60.00	28.27	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.



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Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :2  
 Dis./Ant. :-- KNW407 VB (1#) LISN phase:  
 Limit :FCC PART 15 B  
 Env./Ins. :29.5\*C/55% ESHS 10 Engineer :Sunny  
 EUT :EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating :DC 3.3 V From PC AC120V/60Hz  
 Test Mode :TX Mode  
 M/N :SMC2536W-AG2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.19	10.15	40.39	50.73	64.49	13.76	QP
2	0.24	0.14	10.15	35.29	45.58	62.11	16.53	QP
3	0.33	0.11	10.14	24.48	34.73	59.47	24.74	QP
4	2.33	0.06	10.16	16.24	26.46	56.00	29.54	QP
5	4.36	0.09	10.18	23.55	33.82	56.00	22.18	QP
6	26.42	0.58	10.30	20.24	31.12	60.00	28.88	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

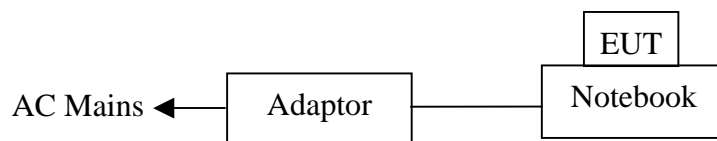
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.10.07	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	Dec.19, 07	1 Year
4.	Amplifier	HP	8447D	2944A04738	Jan.09, 08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Apr.24,08	1/2 Year
7.	RF Cable	JINGCHENG	JBV400	3# Chamber No.2	Apr.24.08	1/2 Year
8.	RF Cable	JINGCHENG	JBV400	3# Chamber No.3	Apr.24.08	1/2 Year
9.	RF Cable	JINGCHENG	JBV400	3# Chamber No.4	Apr.24.08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Apr.24.08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	Antenna	EMCO	3116	00060088	May 28, 07	1 .5Year
5.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

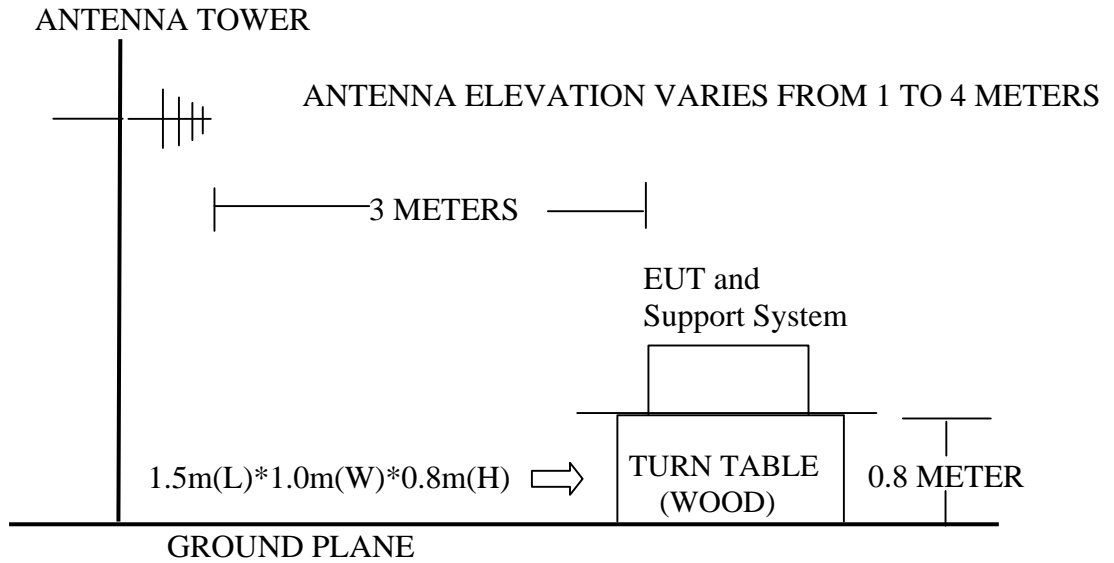
### 4.2. Block Diagram of Test Setup

#### 4.2.1. Block diagram of connection between the EUT and simulators



*(EUT: EliteConnect™ Dualband Wireless Cardbus Adapter)*

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.EliteConnect™ Dualband Wireless Cardbus Adapter (EUT)

Model Number : SMC2536W-AG2  
 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 to control EUT Work in test mode (Tx Mode)

## 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 10<sup>th</sup> harmonic are checked.

The test modes (IEEE 802.11b TX/ IEEE 802.11g TX) are tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.7.

## 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.

Test Date: Apr.30~May.14, 2008      Temperature: 24℃      Humidity: 56%

The details of test modes are as follows :

Test Mode	Frequency (MHz)	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
1.	30~1000	Tx Mode	#5	#6
2.	1000~4000	Tx IEEE802.11b CH1 2412MHz	#92	#91
3.		Tx IEEE802.11b CH6 2437MHz	#93	#94
4.		Tx IEEE802.11b CH11 2462MHz	#96	#95
5.		Tx IEEE802.11g CH1 2412MHz	#97	#98
6.		Tx IEEE802.11g CH6 2437MHz	#100	#99
7.		Tx IEEE802.11g CH11 2462MHz	#101	#102
8.		4000~18000	Tx IEEE802.11b CH1 2412MHz	#105(P), #106(Av)
9.	Tx IEEE802.11b CH6 2437MHz		#107(P), #108(Av)	#109(P), #110(Av)
10.	Tx IEEE802.11b CH11 2462MHz		#113(P), #114(Av)	#111(P), #112(Av)
11.	Tx IEEE802.11g CH1 2412MHz		#115(P), #116(Av)	#117(P), #118(Av)
12.	Tx IEEE802.11g CH6 2437MHz		#121(P), #122(Av)	#119(P), #120(Av)
13.	Tx IEEE802.11g CH11 2462MHz		#123(P), #124(Av)	#125(P), #126(Av)
14.	18000~25000		Tx IEEE802.11b CH1 2412MHz	#133
15.		Tx IEEE802.11b CH6 2437MHz	#136	#135
16.		Tx IEEE802.11b CH11 2462MHz	#137	#138
17.		Tx IEEE802.11g CH1 2412MHz	#128	#127
18.		Tx IEEE802.11g CH6 2437MHz	#129	#130
19.		Tx IEEE802.11g CH11 2462MHz	#132	#131
Note: "P" means "peak", "Av" means "average"				

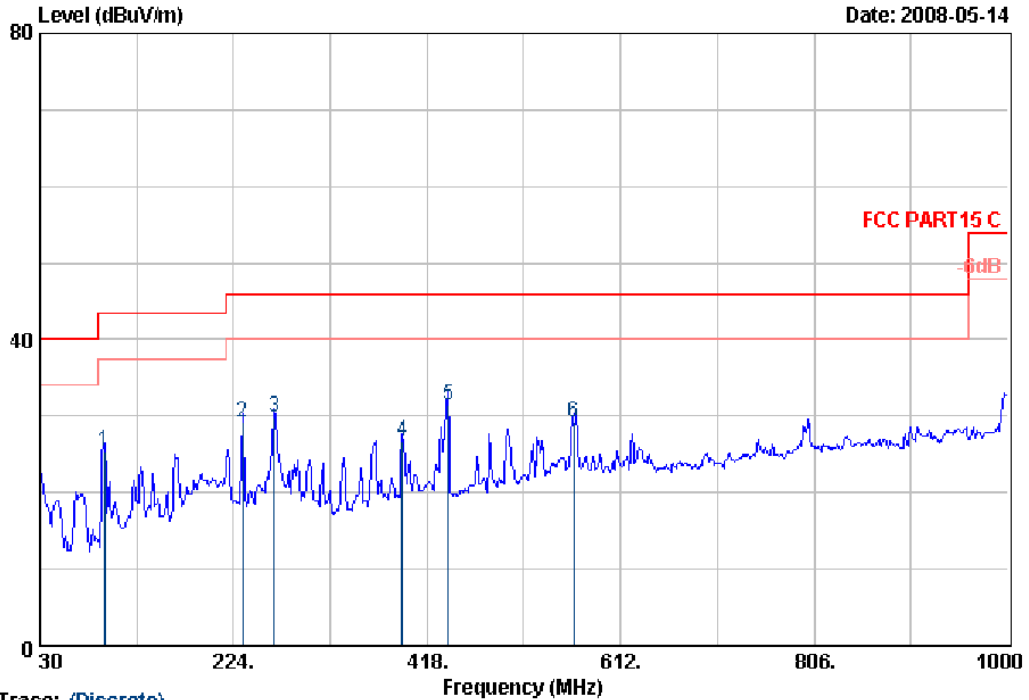


Frequency: 30MHz~1GHz



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Data: 5 File: D:\2008 Report Data\NTP-LINK\ACS8Q163.EMI (6)



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 5  
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART15 C  
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating : DC 3.3V From PC AC 120V/60Hz  
 Test Mode : TX mode  
 M/N : SMC2536W-AG2

	Ant.		Cable Loss (dB)	Emission			Margin (dB)	Remark
	Freq. (MHz)	Factor (dB/m)		Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	94.99	9.70	1.06	14.73	25.49	43.50	18.01	QP
2	232.73	11.24	1.46	16.58	29.28	46.00	16.72	QP
3	264.74	14.10	1.57	14.23	29.90	46.00	16.10	QP
4	392.78	16.26	1.83	8.62	26.71	46.00	19.29	QP
5	439.34	17.08	2.04	12.28	31.40	46.00	14.60	QP
6	565.44	19.30	2.16	7.81	29.27	46.00	16.73	QP

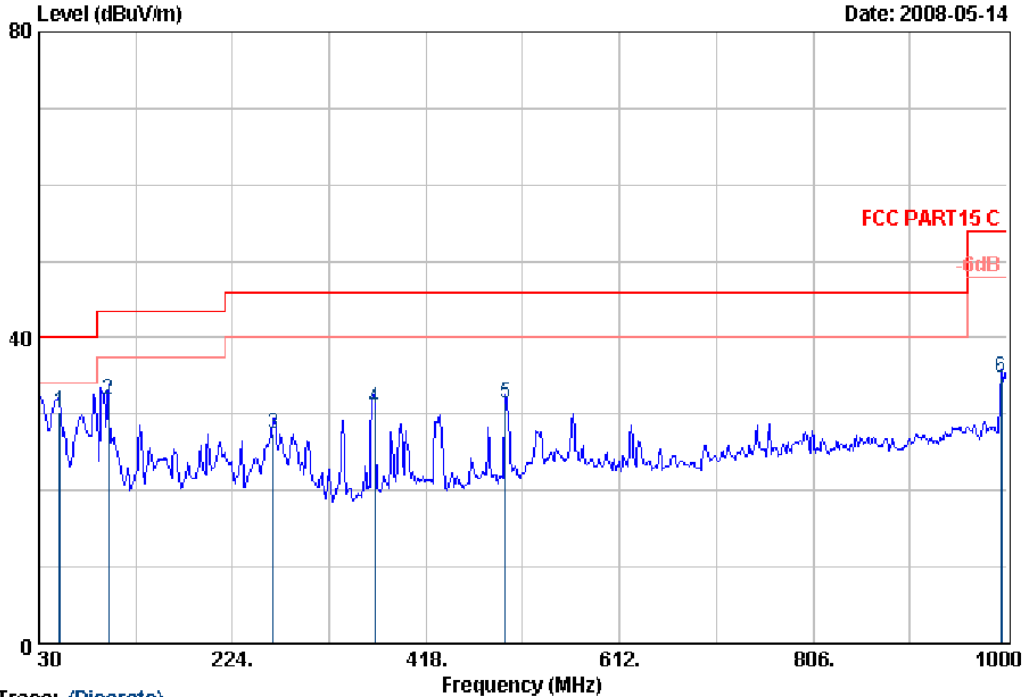
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 6 File: D:\2008 Report Data\TTP-LINK\ACS8Q163.EMI (6)

Date: 2008-05-14



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 6  
 Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART15 C  
 Env. / Ins. : 24\*C/56% ESVS20 Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating : DC 3.3V From PC AC 120V/60Hz  
 Test Mode : TX mode  
 M/N : SMC2536W-AG2

	Ant.	Cable	Emission					Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1	51.34	8.42	0.85	21.08	30.35	40.00	9.65	QP
2	99.84	10.40	1.09	20.34	31.83	43.50	11.67	QP
3	264.74	14.10	1.57	11.69	27.36	46.00	18.64	QP
4	366.59	15.43	1.76	13.60	30.79	46.00	15.21	QP
5	497.54	18.10	2.04	11.35	31.49	46.00	14.51	QP
6	994.18	24.12	2.77	7.96	34.85	54.00	19.15	QP

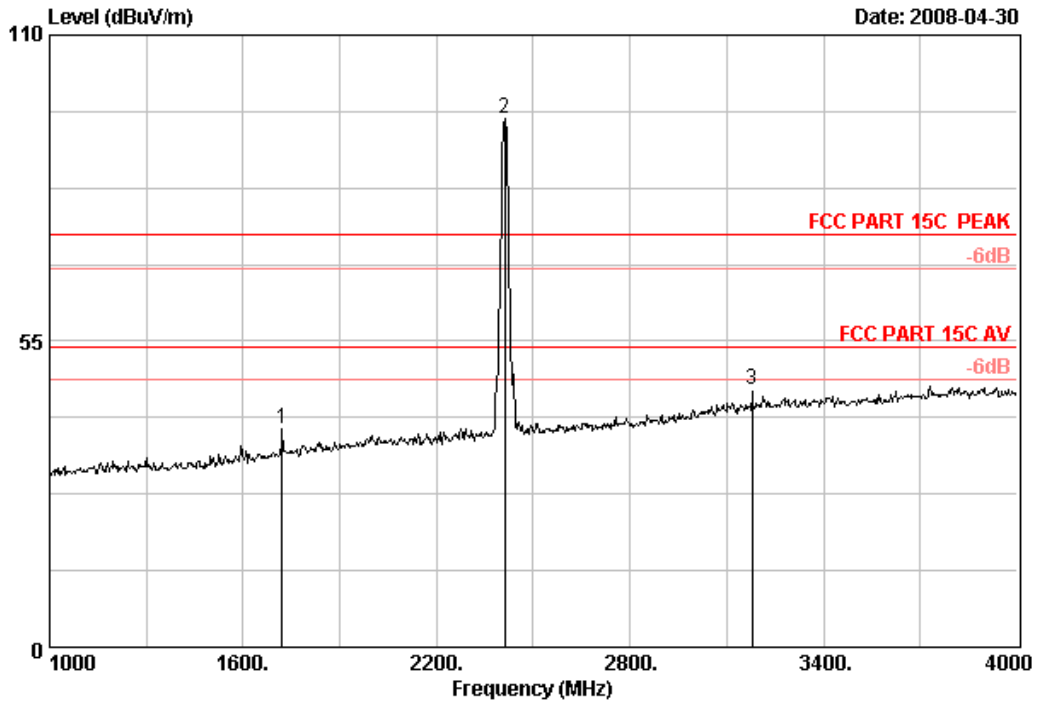
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~4GHz



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Data: 91 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 91  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

	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	26.54	5.67	35.55	42.51	39.17	74.00	34.83	Peak
2	29.03	6.73	35.18	94.32	94.90	74.00	-20.90	Peak
3	31.47	8.03	34.95	41.75	46.30	74.00	27.70	Peak

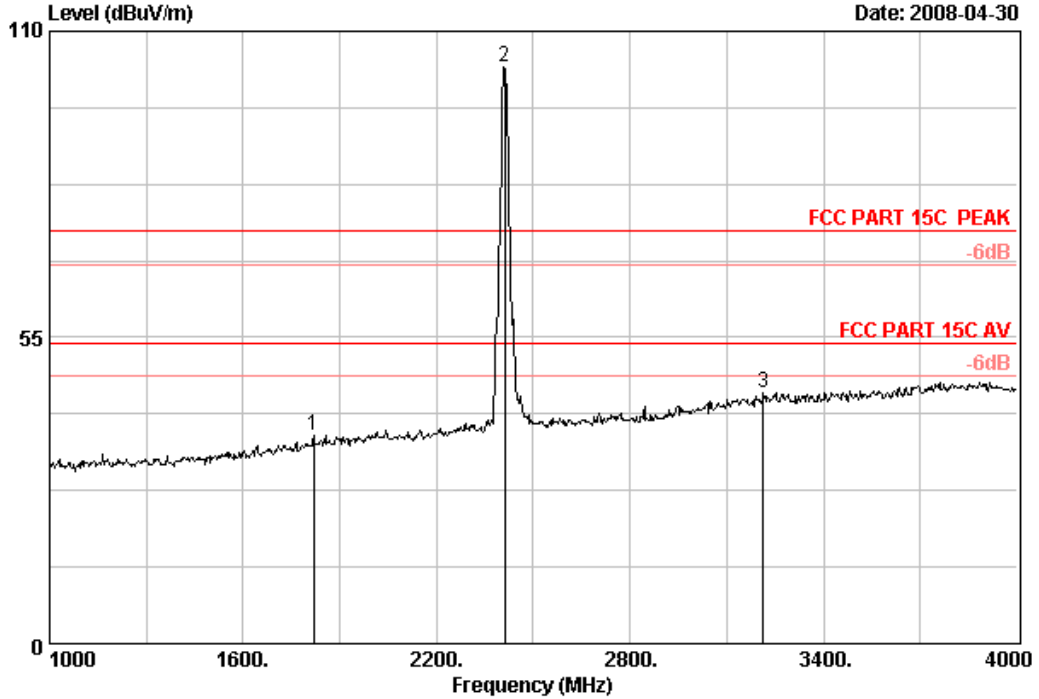
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 92 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)

Date: 2008-04-30



Site no. : RF Chamber Data no. : 92  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

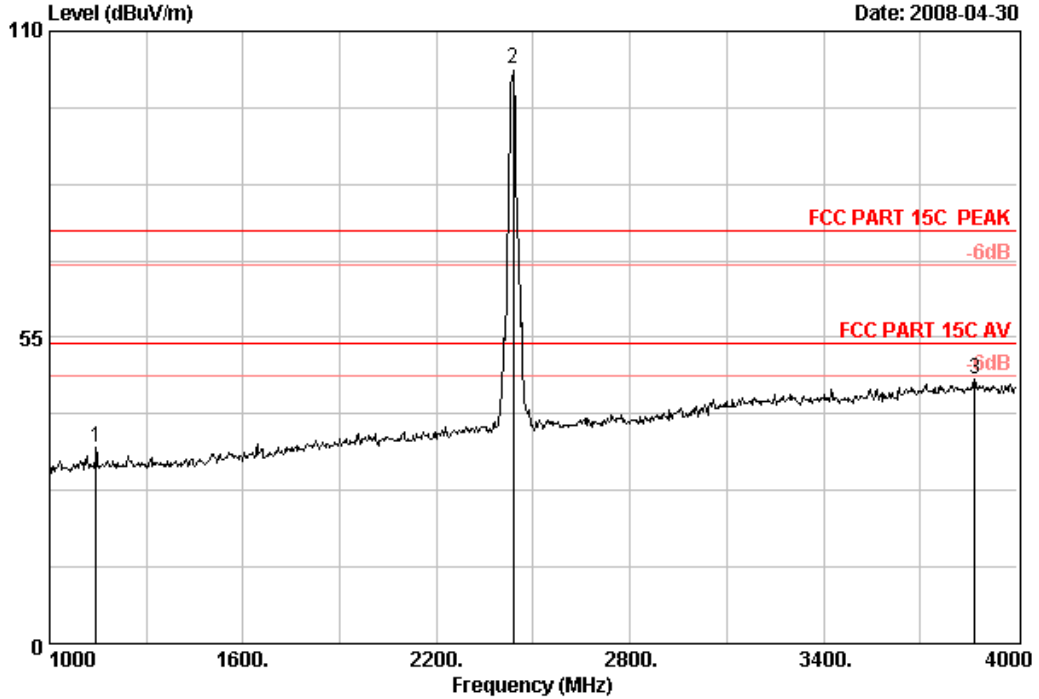
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1819.00	27.07	5.84	35.46	39.83	37.28	74.00	36.72	Peak
2	2412.00	29.03	6.73	35.18	102.90	103.48	74.00	-29.48	Peak
3	3214.00	31.57	8.13	34.93	40.32	45.09	74.00	28.91	Peak

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



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Data: 93 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 93  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

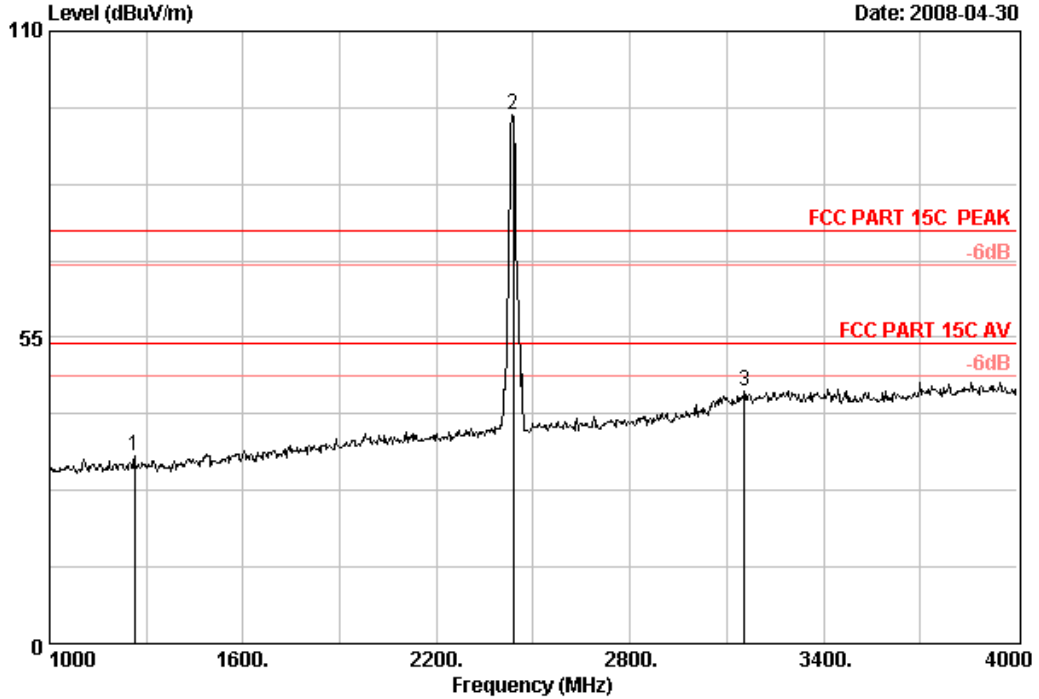
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1144.00	24.67	4.67	36.07	42.09	35.36	74.00	38.64	Peak
2	2437.00	29.11	6.80	35.17	102.39	103.13	74.00	-29.13	Peak
3	3868.00	33.45	9.52	34.74	39.39	47.62	74.00	26.38	Peak

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



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Data: 94 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 94  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

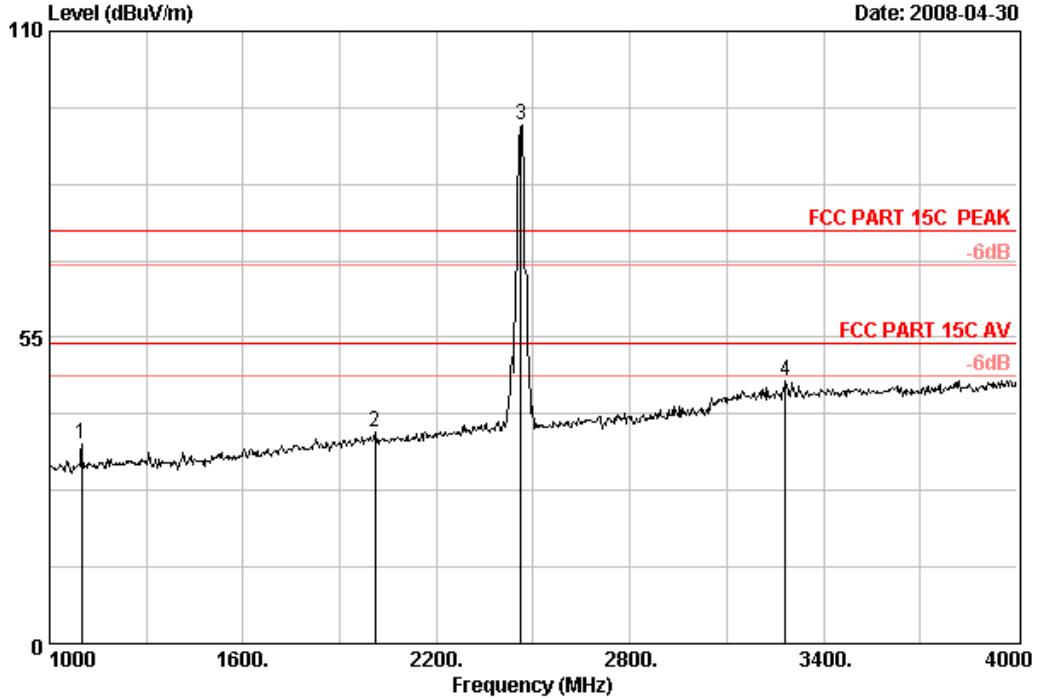
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)			
1	24.94	4.88	35.95	39.88	33.75	74.00	40.25	Peak	
2	29.11	6.80	35.17	94.23	94.97	74.00	-20.97	Peak	
3	31.43	7.99	34.96	40.82	45.28	74.00	28.72	Peak	

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



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Data: 95 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 95  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

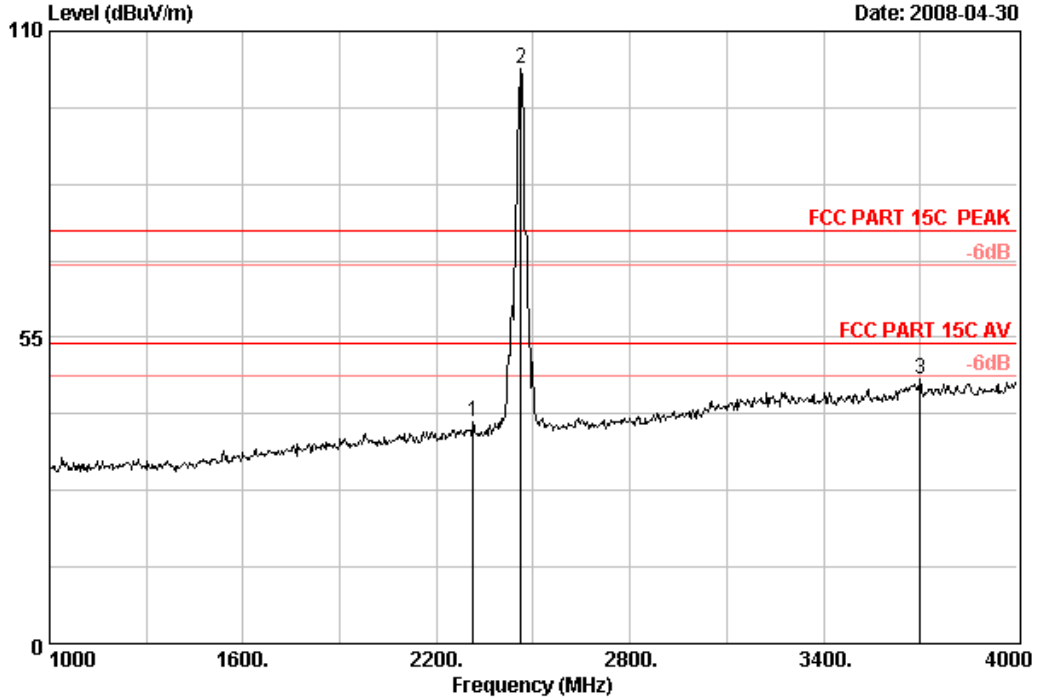
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	24.60	4.56	36.11	42.77	35.82	74.00	38.18	Peak
2	28.06	6.21	35.30	39.14	38.11	74.00	35.89	Peak
3	29.15	6.84	35.17	92.26	93.08	74.00	-19.08	Peak
4	31.76	8.28	34.92	42.19	47.31	74.00	26.69	Peak

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



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Data: 96 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 96  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

	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	2314.00	28.79	6.63	35.20	39.75	39.97	74.00	34.03	Peak
2	2462.00	29.15	6.84	35.17	102.59	103.41	74.00	-29.41	Peak
3	3700.00	32.96	9.20	34.79	40.22	47.59	74.00	26.41	Peak

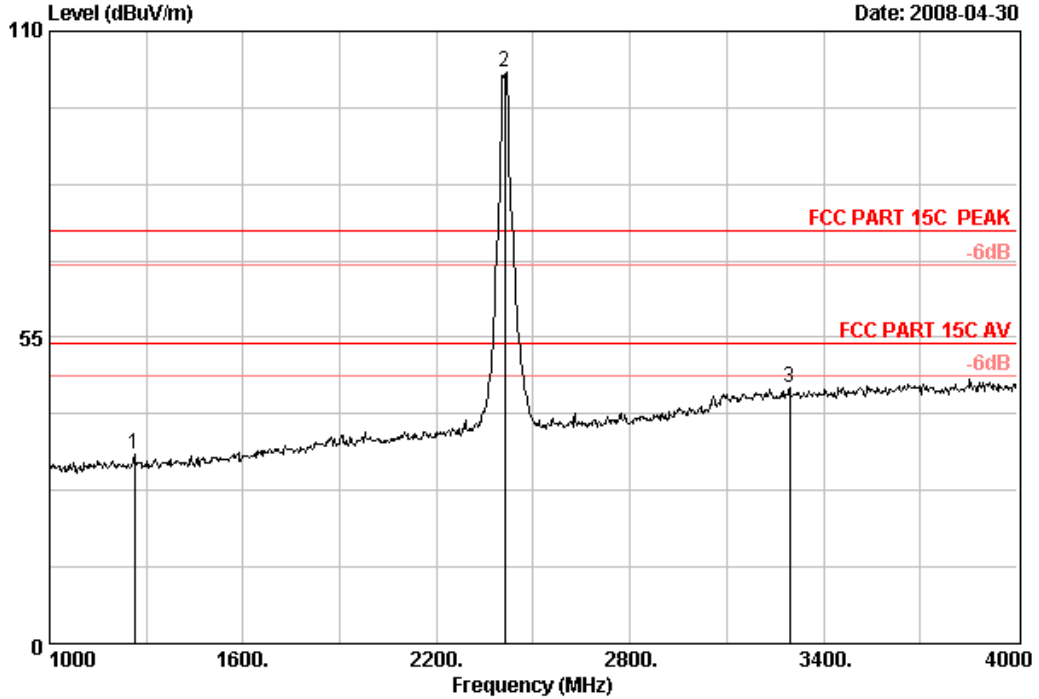
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 97 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 97  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

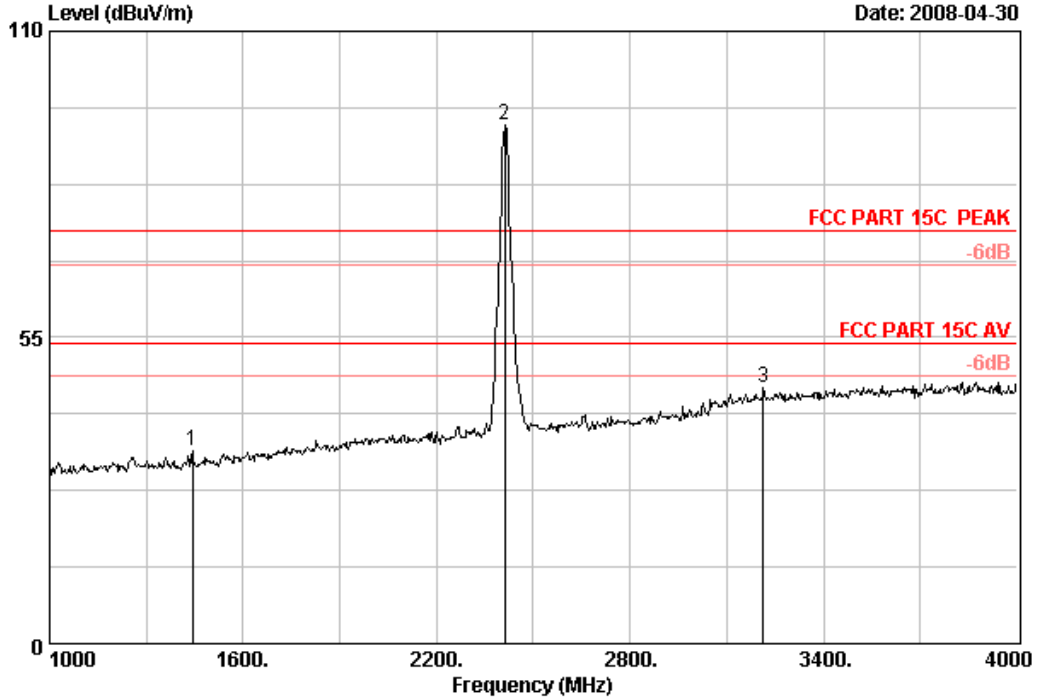
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1264.00	24.94	4.88	35.95	40.14	34.01	74.00	39.99	Peak
2	2412.00	29.03	6.73	35.18	102.22	102.80	74.00	-28.80	Peak
3	3295.00	31.80	8.33	34.91	40.79	46.01	74.00	27.99	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.



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Data: 98 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 98  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

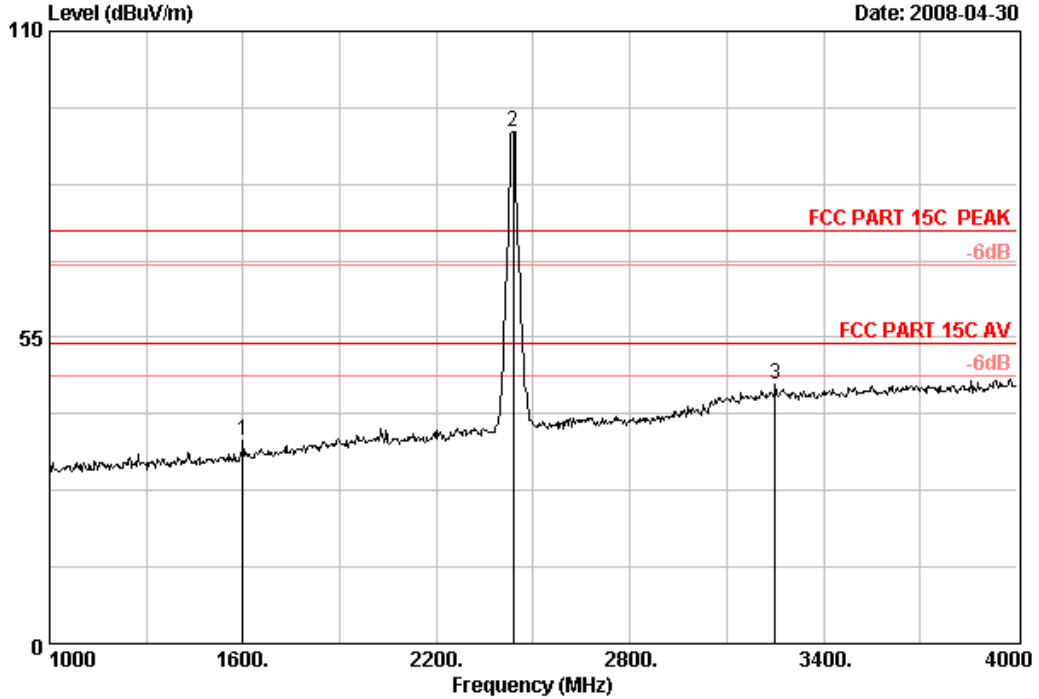
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1444.00	25.27	5.21	35.79	39.96	34.65	74.00	39.35	Peak
2	2412.00	29.03	6.73	35.18	92.57	93.15	74.00	-19.15	Peak
3	3214.00	31.57	8.13	34.93	41.33	46.10	74.00	27.90	Peak

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



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Data: 99 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 99  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

	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	1600.00	25.91	5.46	35.66	40.61	36.32	74.00	37.68	Peak
2	2437.00	29.11	6.80	35.17	91.28	92.02	74.00	-18.02	Peak
3	3250.00	31.66	8.23	34.92	41.57	46.54	74.00	27.46	Peak

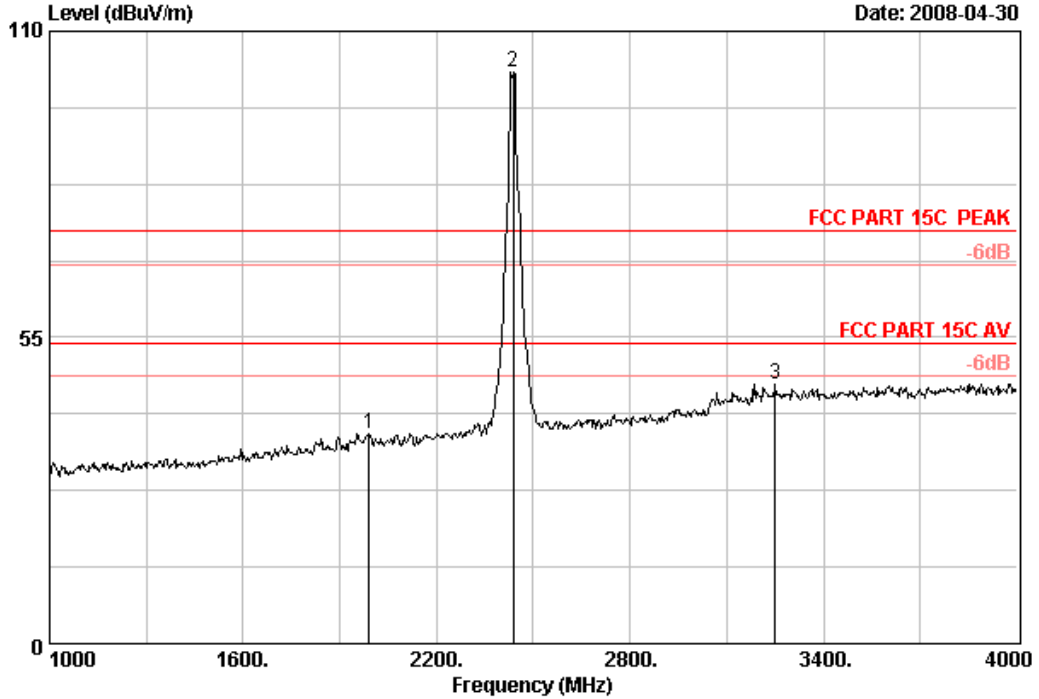
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 100 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)

Date: 2008-04-30



Site no. : RF Chamber Data no. : 100  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

	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	1990.00	27.97	6.16	35.30	38.98	37.81	74.00	36.19	Peak
2	2437.00	29.11	6.80	35.17	101.93	102.67	74.00	-28.67	Peak
3	3250.00	31.66	8.23	34.92	41.58	46.55	74.00	27.45	Peak

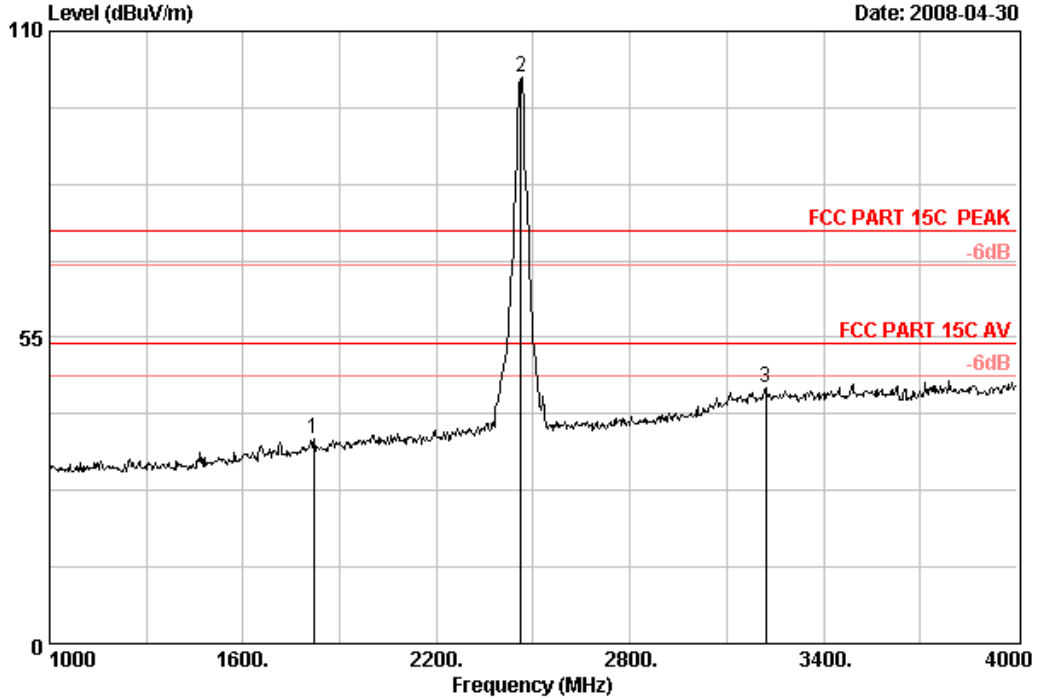
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 101 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)

Date: 2008-04-30



Site no. : RF Chamber Data no. : 101  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

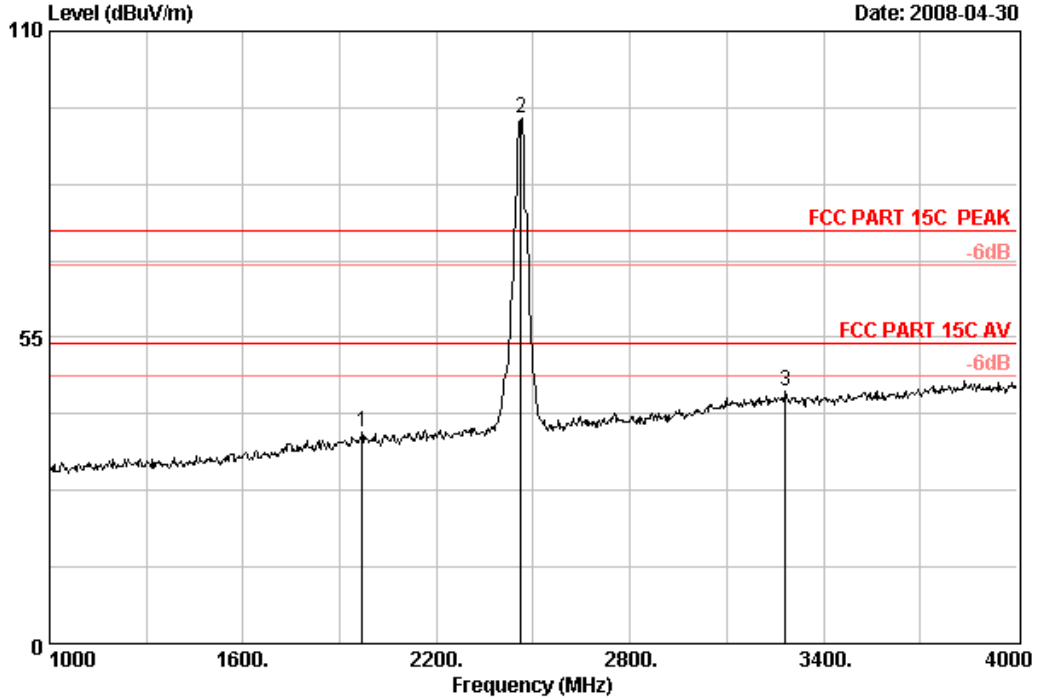
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1819.00	27.07	5.84	35.46	39.35	36.80	74.00	37.20	Peak
2	2462.00	29.15	6.84	35.17	100.96	101.78	74.00	-27.78	Peak
3	3220.00	31.61	8.13	34.93	41.14	45.95	74.00	28.05	Peak

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



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Data: 102 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 102  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

	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	27.88	6.11	35.32	39.26	37.93	74.00	36.07	Peak	
2	29.15	6.84	35.17	93.63	94.45	74.00	-20.45	Peak	
3	31.76	8.28	34.92	40.26	45.38	74.00	28.62	Peak	

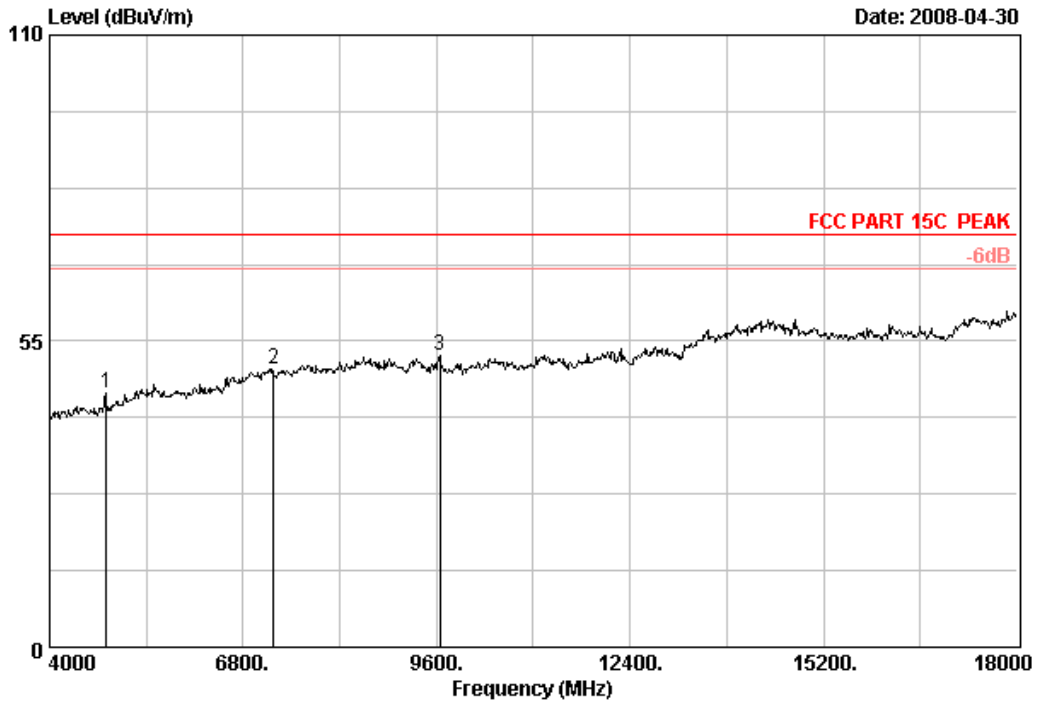
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 4GHz~18GHz



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Data: 103 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 103  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

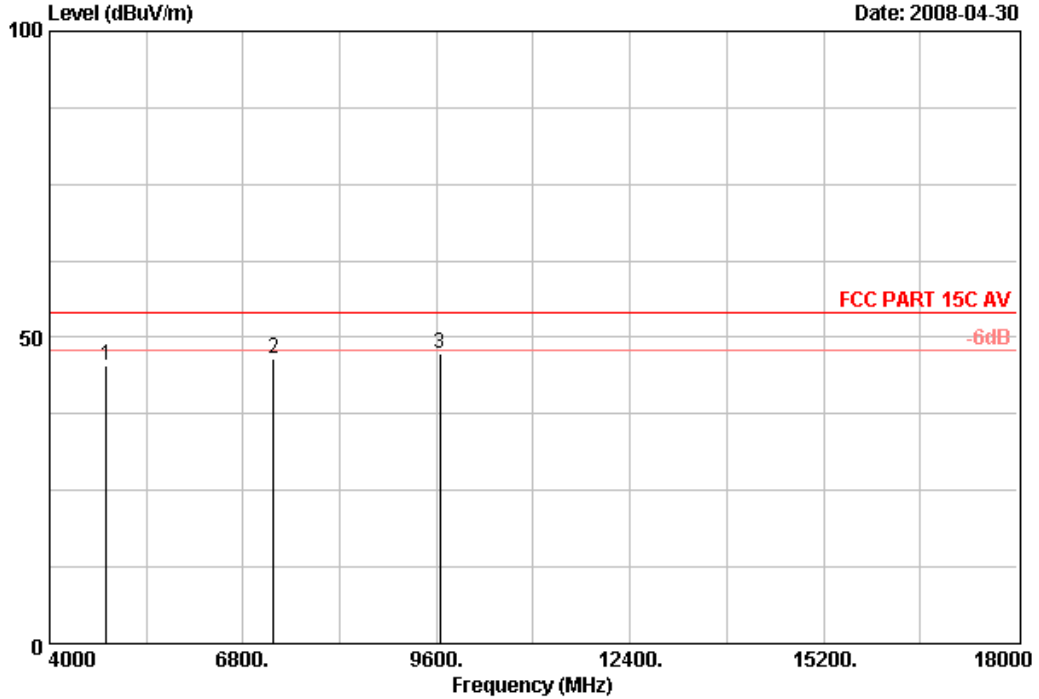
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	35.44	45.52	74.00	28.48	Peak
2	7236.00	37.39	12.16	34.44	34.97	50.08	74.00	23.92	Peak
3	9648.00	38.11	14.13	35.92	36.08	52.40	74.00	21.60	Peak

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



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Data: 104 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 104  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

	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	35.37	45.45	54.00	8.55	Average
2	7236.00	37.39	12.16	34.44	31.38	46.49	54.00	7.51	Average
3	9648.00	38.11	14.13	35.92	31.08	47.40	54.00	6.60	Average

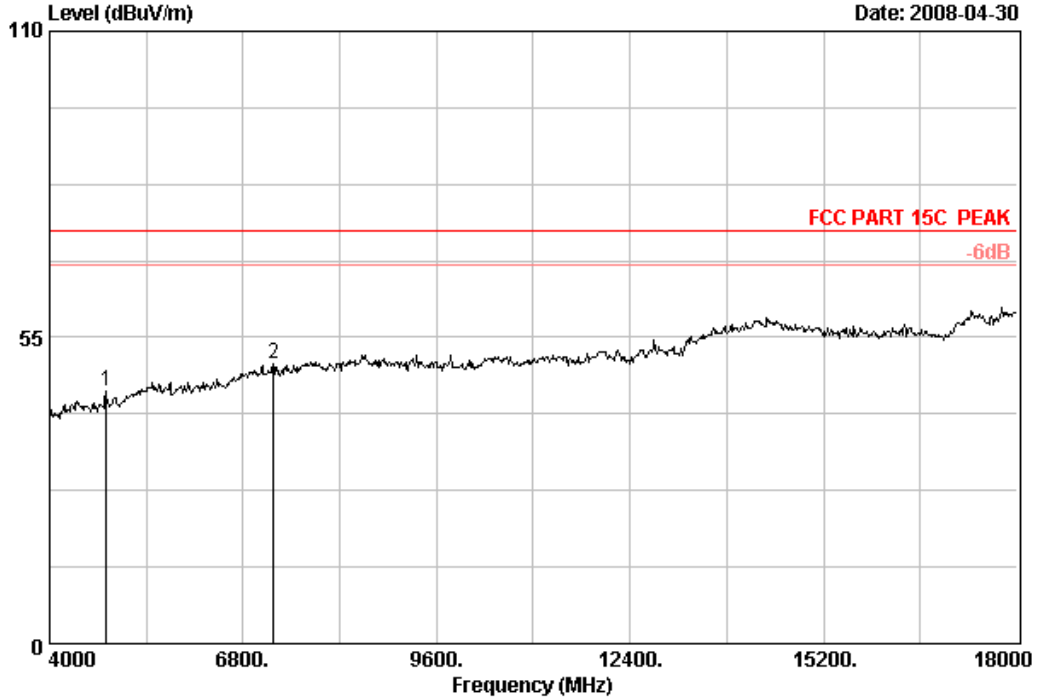
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 105 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 105  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

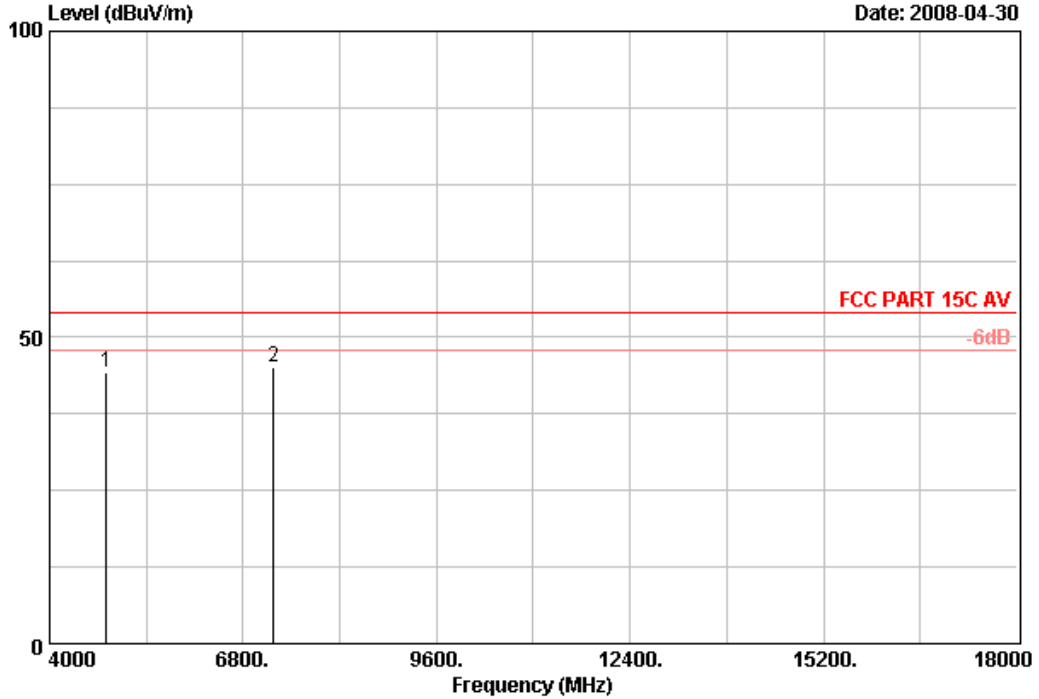
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	35.33	45.41	74.00	28.59	Peak
2	7236.00	37.39	12.16	34.44	35.01	50.12	74.00	23.88	Peak

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



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Data: 106 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 106  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

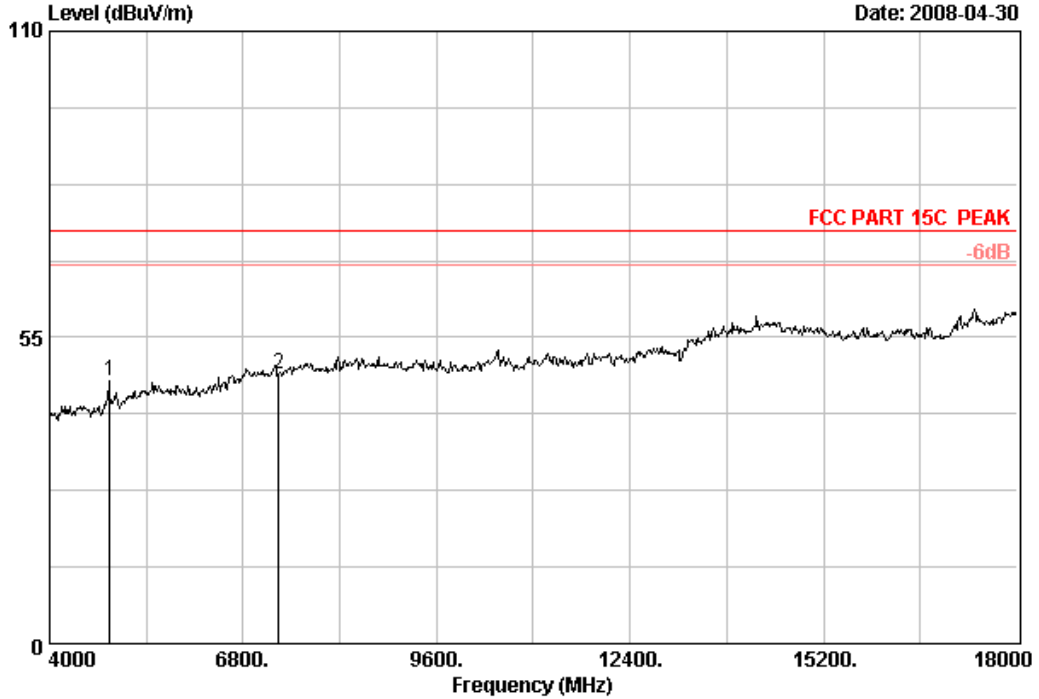
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	34.33	44.41	54.00	9.59	Average
2	7236.00	37.39	12.16	34.44	30.01	45.12	54.00	8.88	Average

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



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Data: 107 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



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 : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

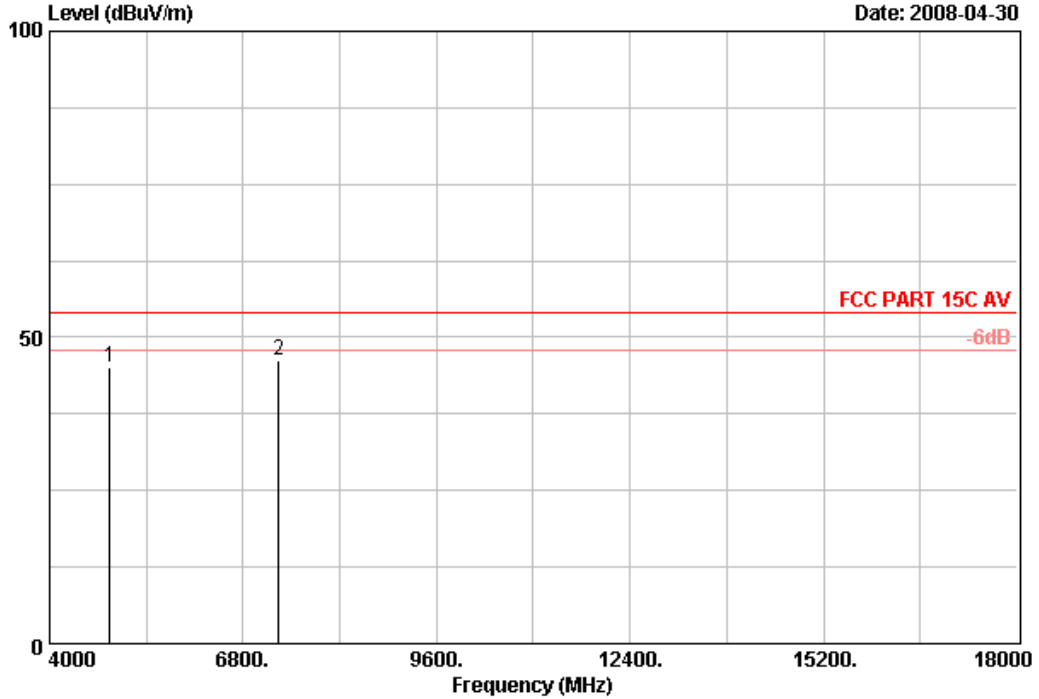
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	36.88	47.12	74.00	26.88	Peak
2	7311.00	37.50	12.17	34.46	33.14	48.35	74.00	25.65	Peak

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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Data: 108 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 108  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

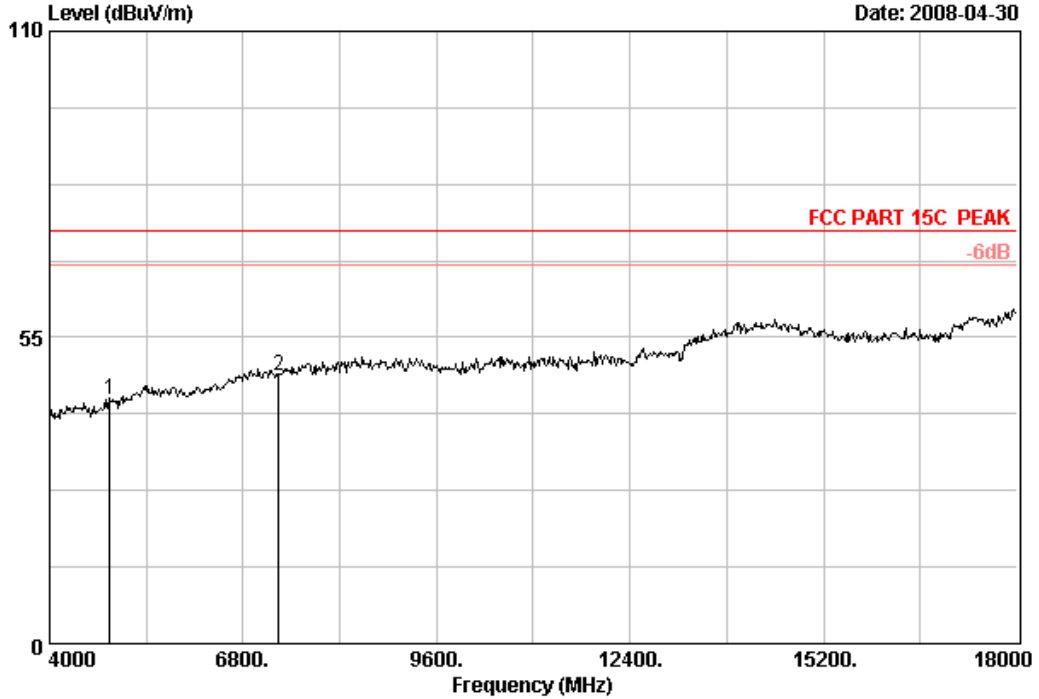
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	34.88	45.12	54.00	8.88	Average
2	7311.00	37.50	12.17	34.46	31.14	46.35	54.00	7.65	Average

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.



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Data: 109 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



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 : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

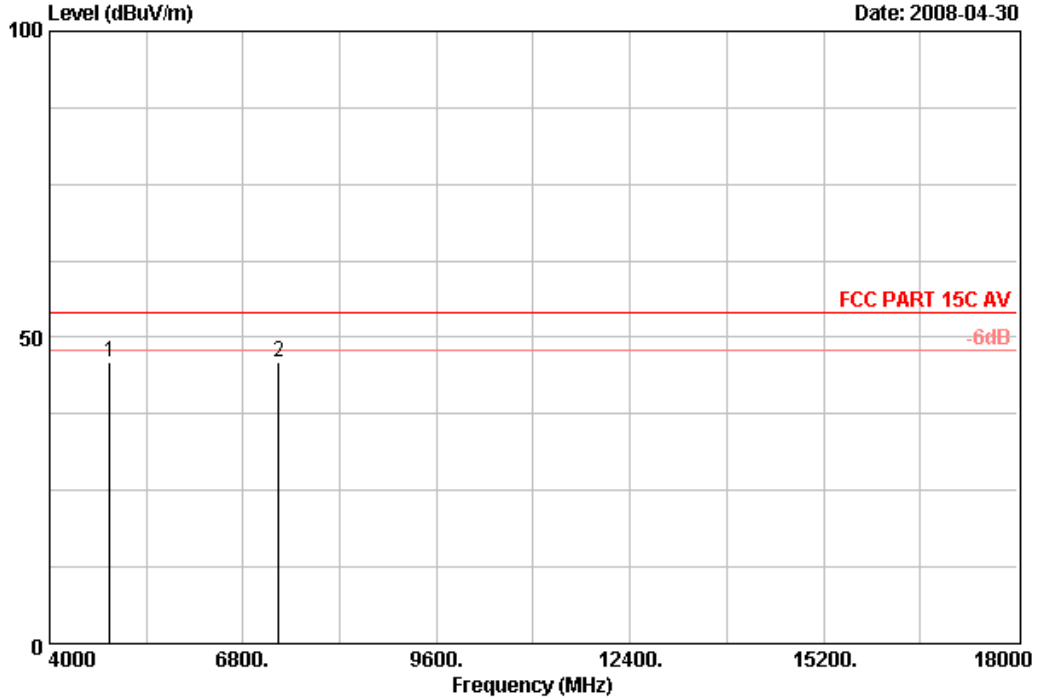
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.00	34.16	10.56	34.48	33.60	43.84	74.00	30.16	Peak
2	7311.00	37.50	12.17	34.46	32.88	48.09	74.00	25.91	Peak

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



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Data: 110 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 110  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

	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	35.60	45.84	54.00	8.16	Average
2	7311.00	37.50	12.17	34.46	30.88	46.09	54.00	7.91	Average

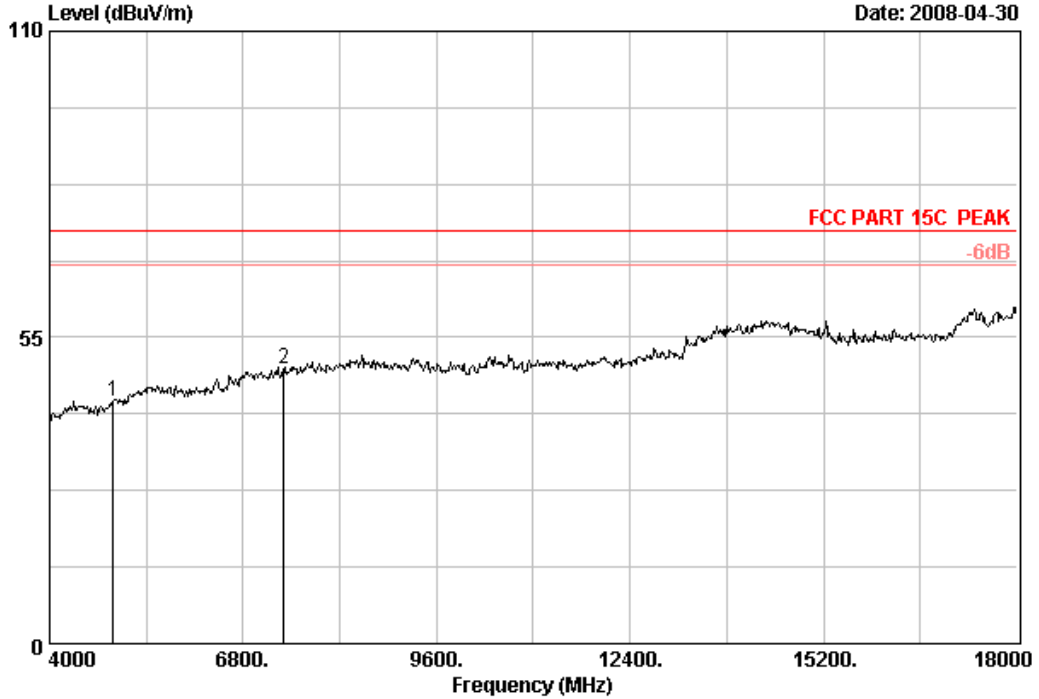
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 111 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)

Date: 2008-04-30



Site no. : RF Chamber Data no. : 111  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

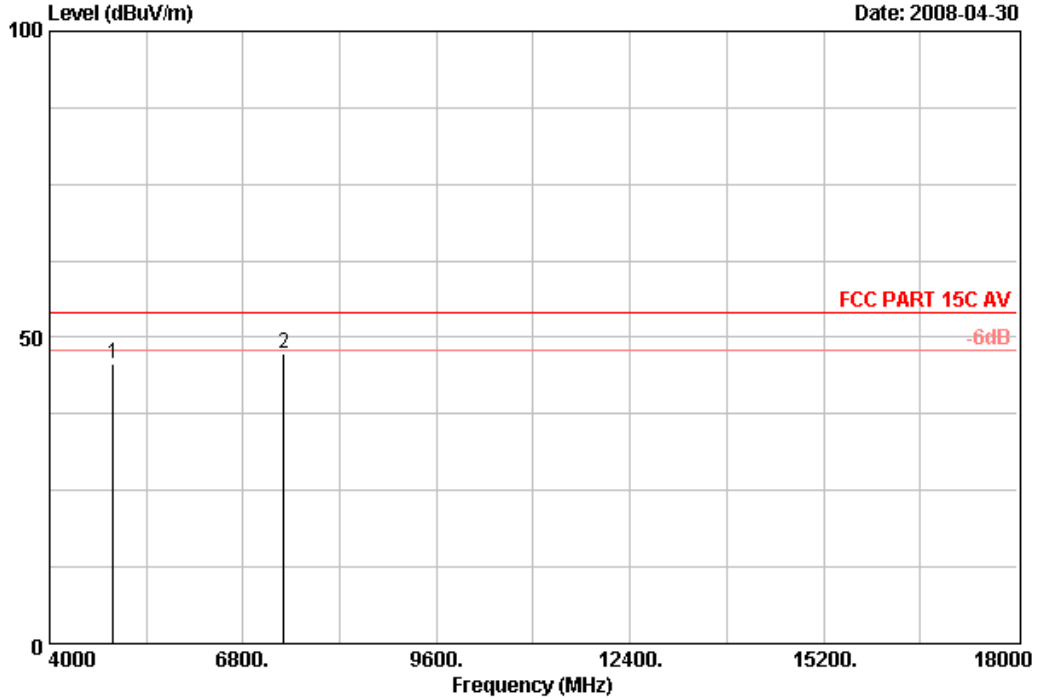
	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.00	34.29	10.58	34.47	33.25	43.65	74.00	30.35	Peak
2	7386.00	37.63	12.31	34.47	33.78	49.25	74.00	24.75	Peak

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



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Data: 112 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 112  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

	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	35.25	45.65	54.00	8.35	Average
2	7386.00	37.63	12.31	34.47	31.78	47.25	54.00	6.75	Average

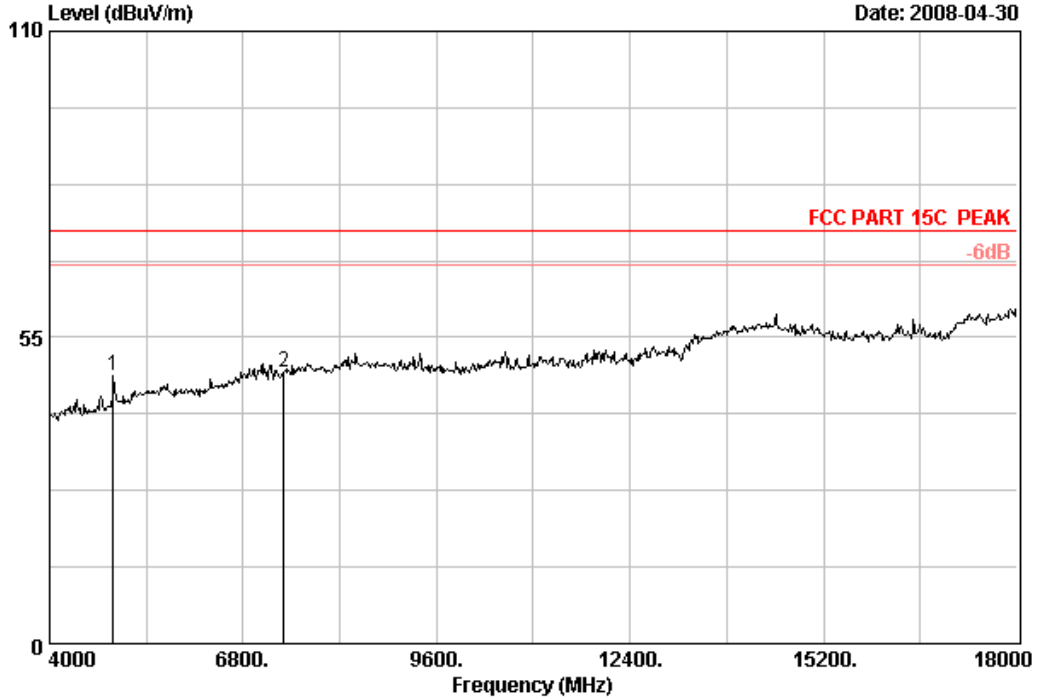
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 113 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 113  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

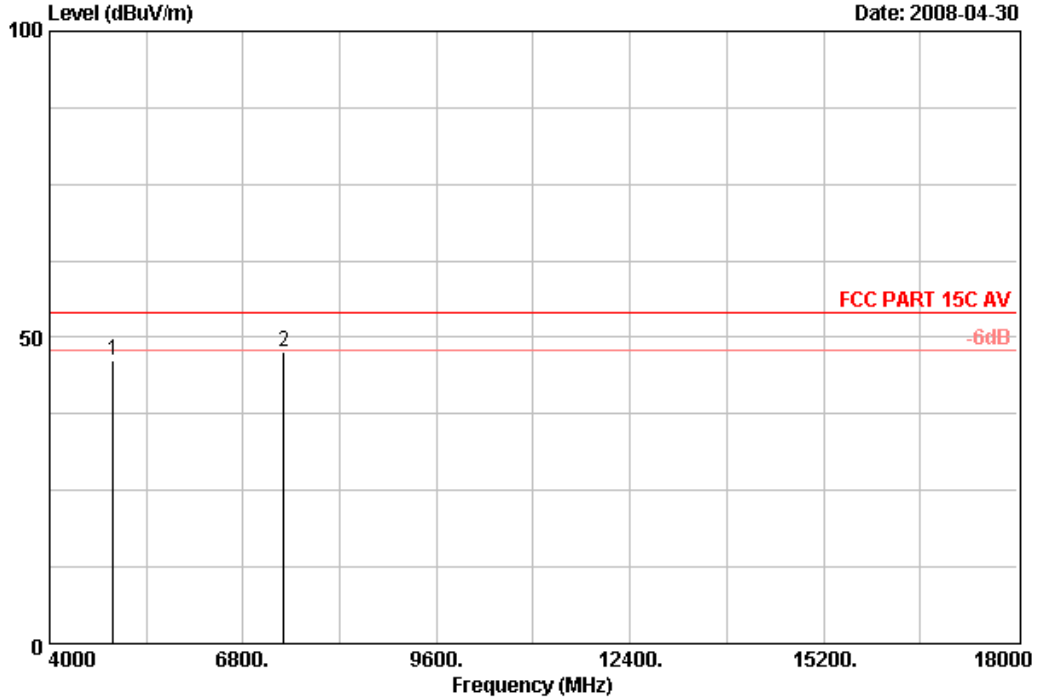
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	37.77	48.17	74.00	25.83	Peak
2	7386.00	37.63	12.31	34.47	33.18	48.65	74.00	25.35	Peak

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



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 Postcode:518057

Data: 114 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 114  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

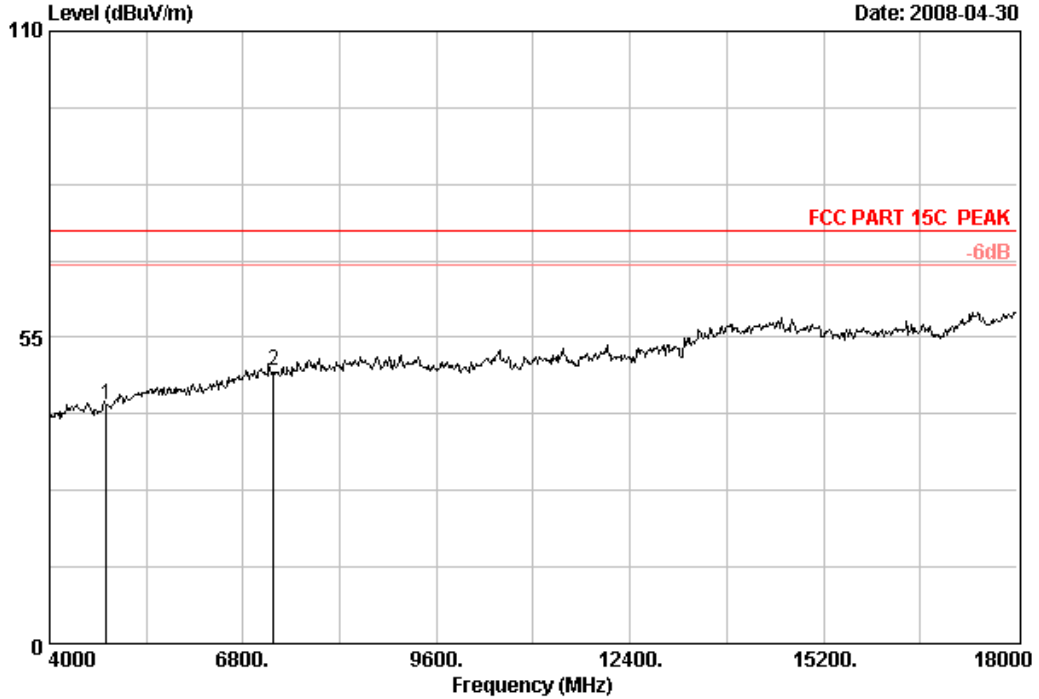
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	35.77	46.17	54.00	7.83	Average
2	7386.00	37.63	12.31	34.47	32.18	47.65	54.00	6.35	Average

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.



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Postcode:518057

Data: 115 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



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 : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

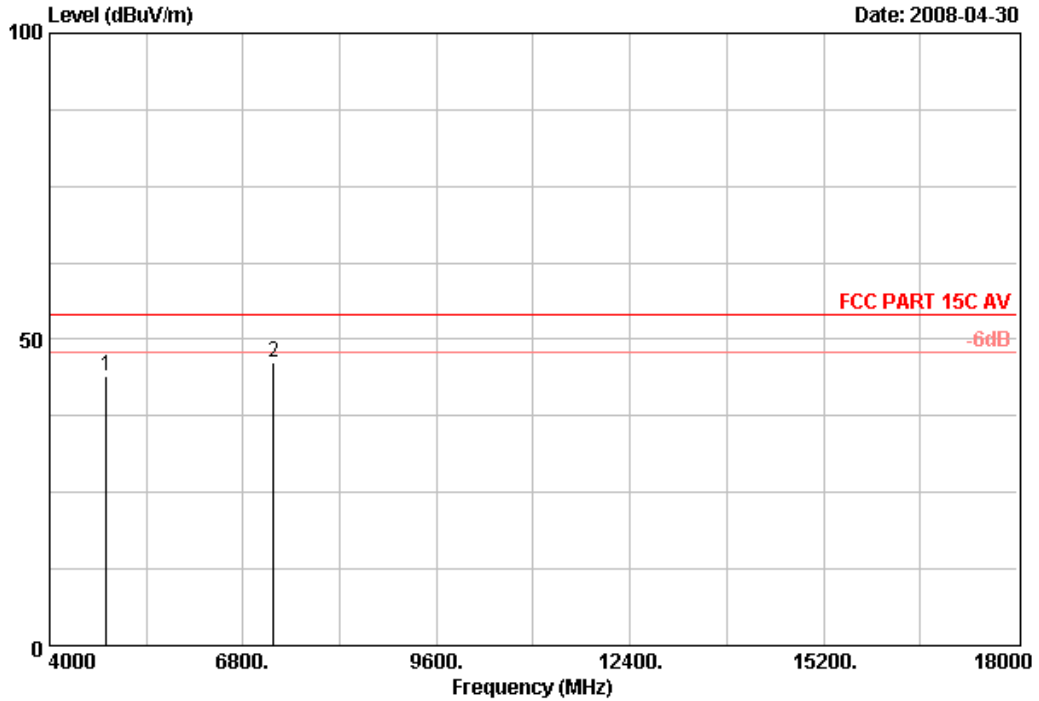
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	32.86	42.94	74.00	31.06	Peak
2	7236.00	37.39	12.16	34.44	34.04	49.15	74.00	24.85	Peak

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



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 Postcode:518057

Data: 116 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 116  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

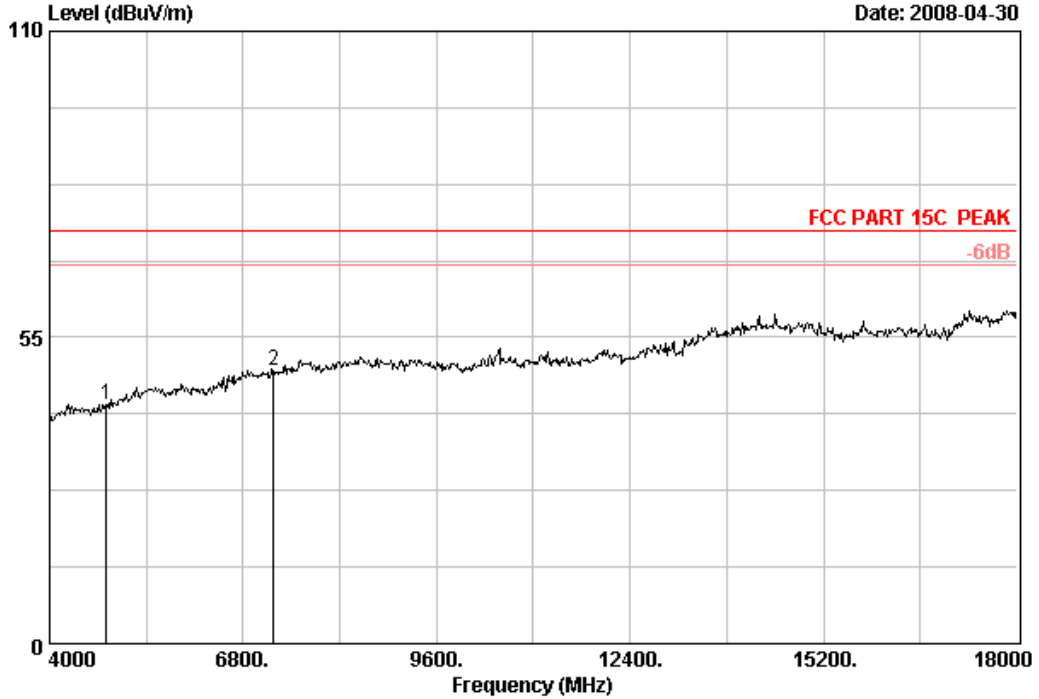
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	33.86	43.94	54.00	10.06	Average
2	7236.00	37.39	12.16	34.44	31.04	46.15	54.00	7.85	Average

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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Postcode:518057

Data: 117 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



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 : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

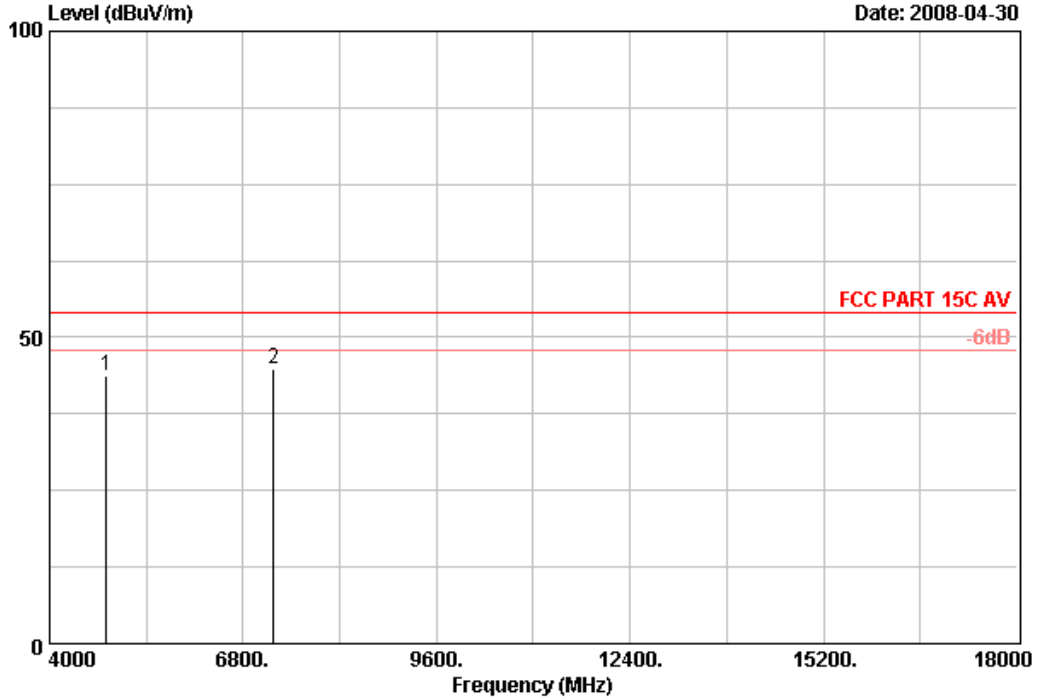
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	34.02	10.55	34.49	32.75	42.83	74.00	31.17	Peak
2	7236.00	37.39	12.16	34.44	33.82	48.93	74.00	25.07	Peak

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.



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Postcode:518057

Data: 118 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 118  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

	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	33.75	43.83	54.00	10.17	Average
2	7236.00	37.39	12.16	34.44	29.82	44.93	54.00	9.07	Average

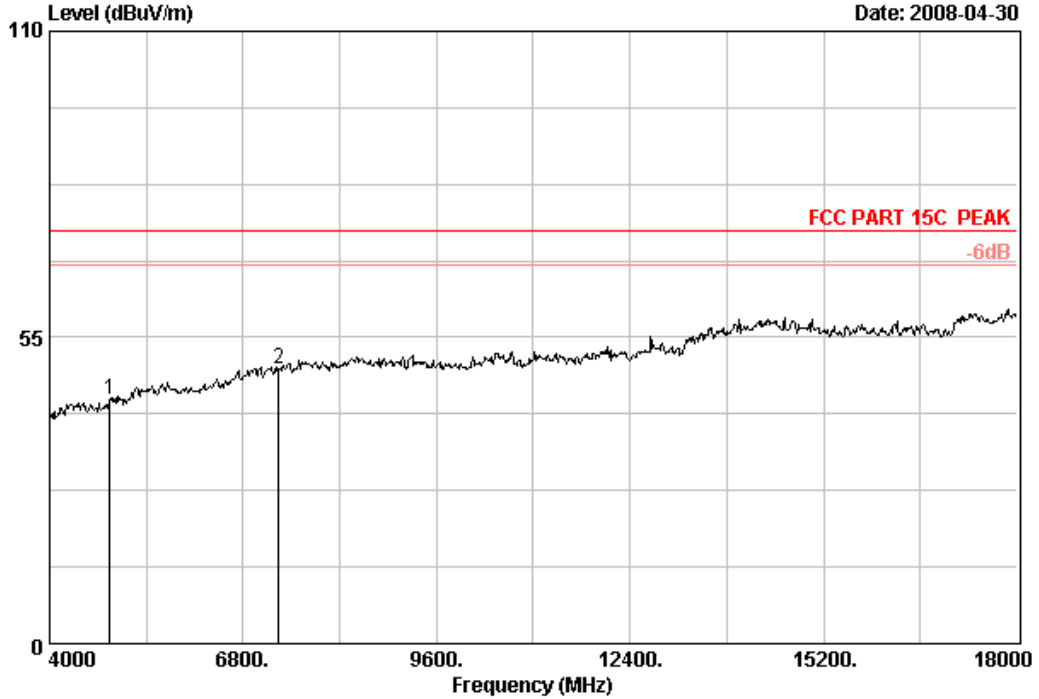
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Postcode:518057

Data: 119 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)

Date: 2008-04-30



Site no. : RF Chamber Data no. : 119  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

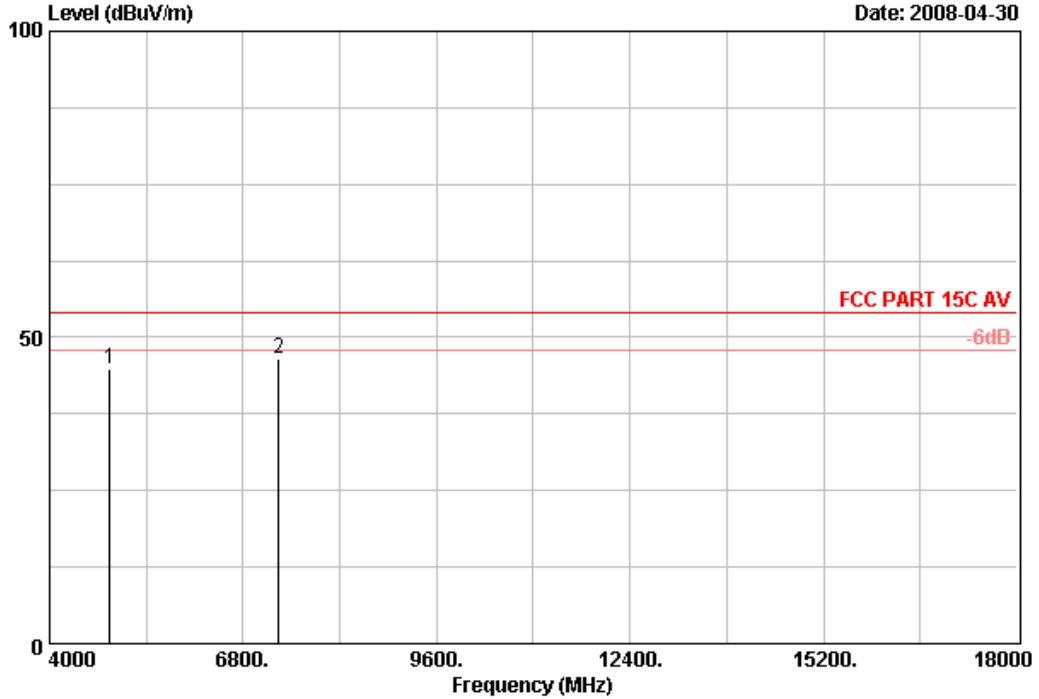
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	34.16	10.56	34.48	33.68	43.92	74.00	30.08	Peak
2	7311.00	37.50	12.17	34.46	34.25	49.46	74.00	24.54	Peak

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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 Fax:+86-755-26632877  
 Postcode:518057

Data: 120 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 120  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

	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	34.68	44.92	54.00	9.08	Average
2	7311.00	37.50	12.17	34.46	31.25	46.46	54.00	7.54	Average

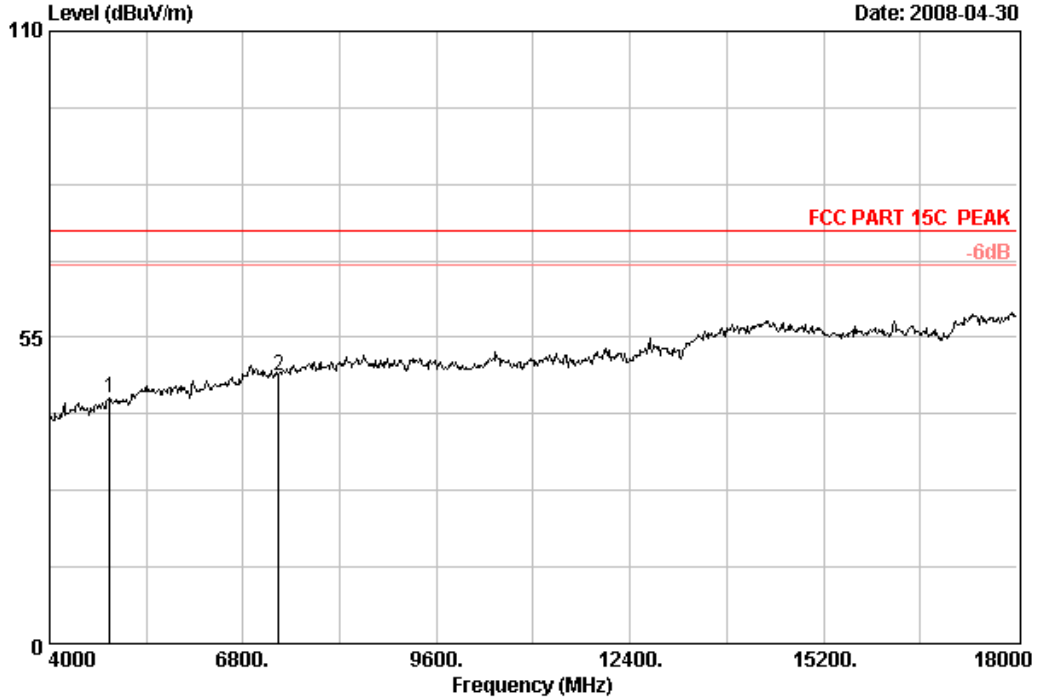
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Postcode:518057

Data: 121 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 121  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

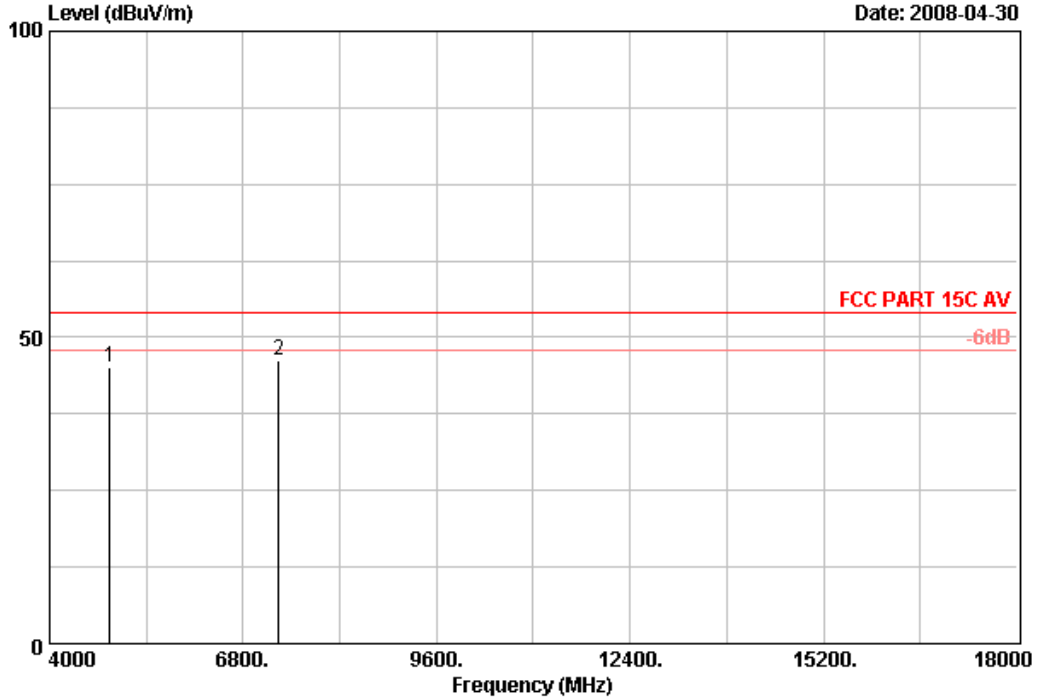
	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	34.16	10.56	34.48	33.80	44.04	74.00	29.96	Peak
2	37.50	12.17	34.46	33.02	48.23	74.00	25.77	Peak

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



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 Postcode:518057

Data: 122 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 122  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

	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	34.80	45.04	54.00	8.96	Average
2	7311.00	37.50	12.17	34.46	31.02	46.23	54.00	7.77	Average

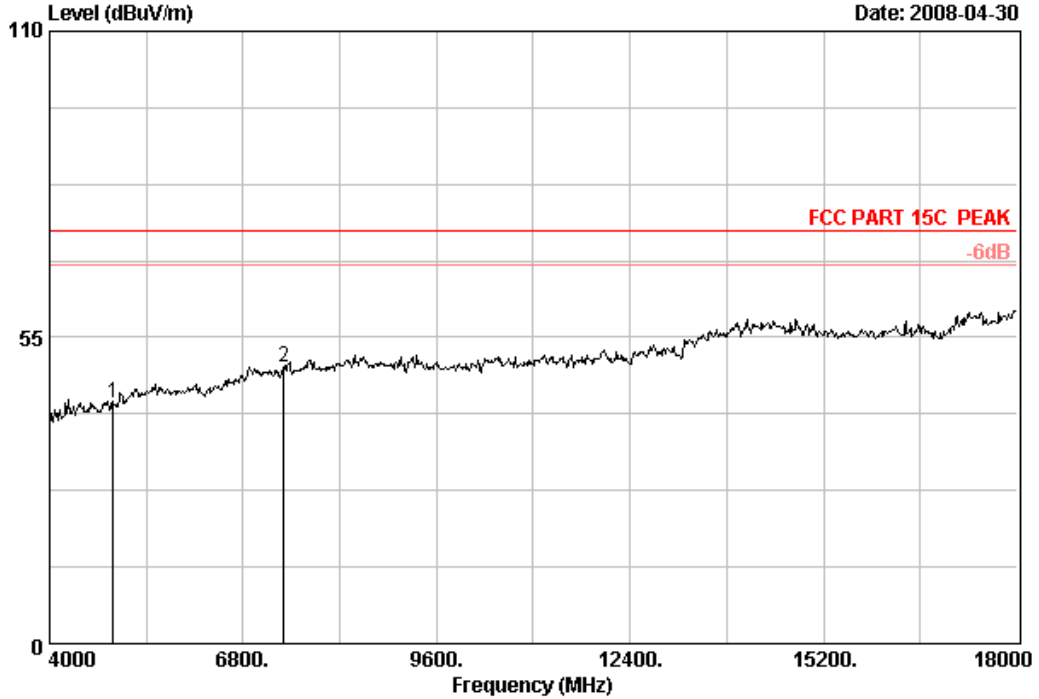
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 123 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)

Date: 2008-04-30



Site no. : RF 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 : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

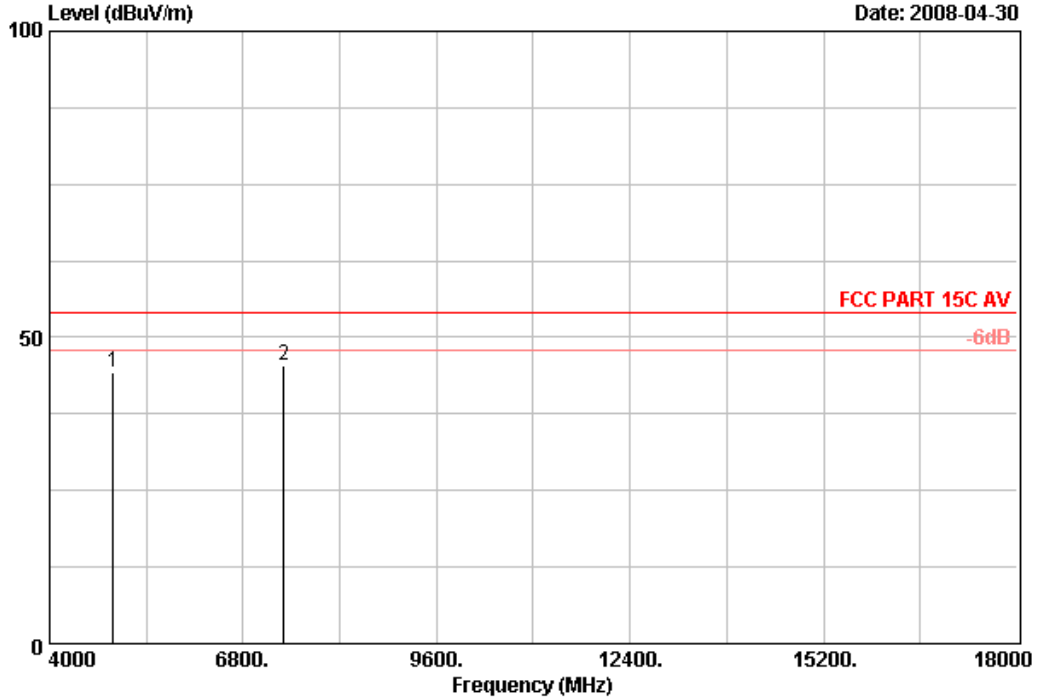
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	32.76	43.16	74.00	30.84	Peak
2	7386.00	37.63	12.31	34.47	34.06	49.53	74.00	24.47	Peak

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



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 Postcode:518057

Data: 124 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF 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 : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

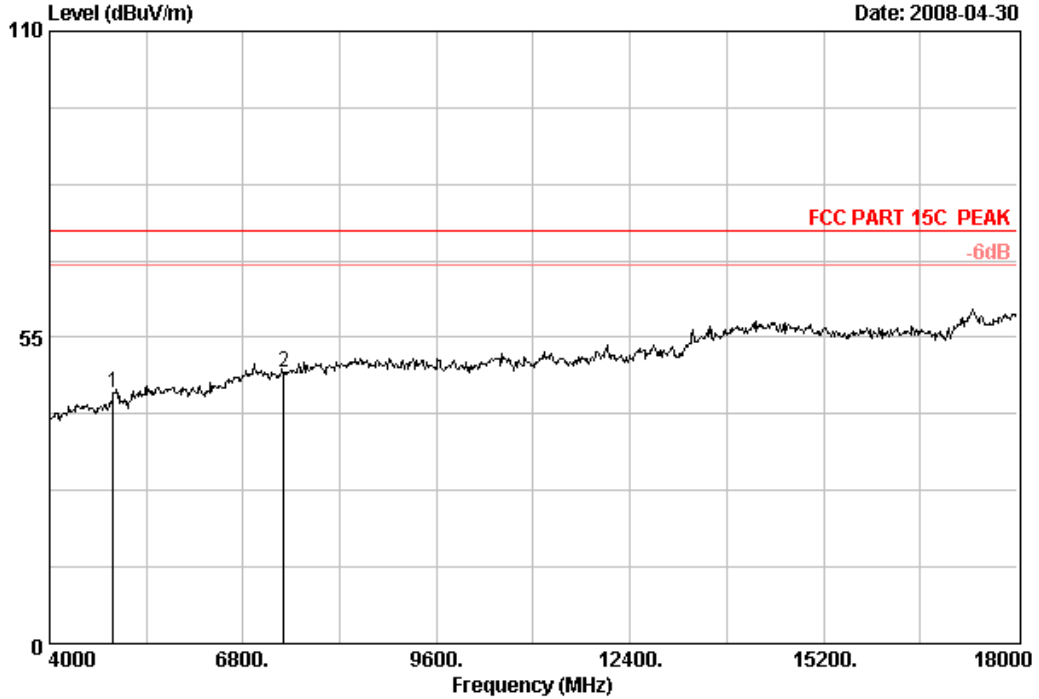
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	33.76	44.16	54.00	9.84	Average
2	7386.00	37.63	12.31	34.47	30.06	45.53	54.00	8.47	Average

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.



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Postcode:518057

Data: 125 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 125  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

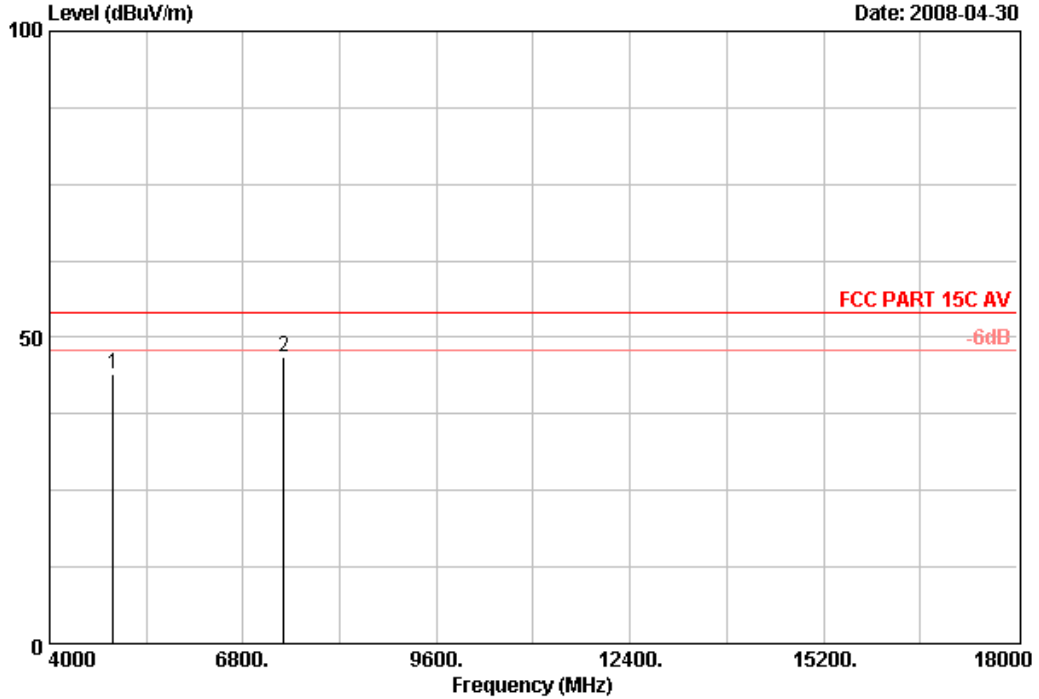
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	34.29	10.58	34.47	34.50	44.90	74.00	29.10	Peak
2	7386.00	37.63	12.31	34.47	33.21	48.68	74.00	25.32	Peak

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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 Postcode:518057

Data: 126 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138)



Site no. : RF Chamber Data no. : 126  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

	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	33.50	43.90	54.00	10.10	Average
2	7386.00	37.63	12.31	34.47	31.21	46.68	54.00	7.32	Average

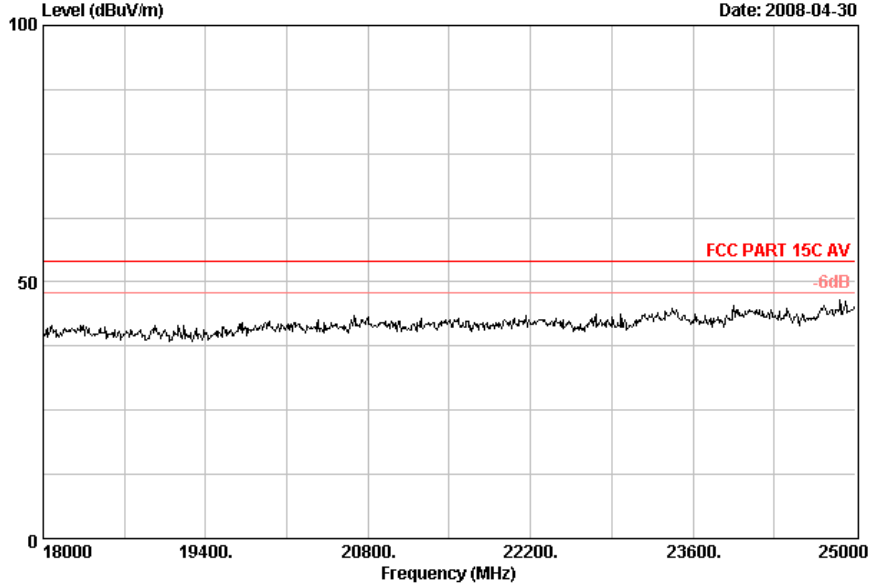
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 18GHz~25GHz



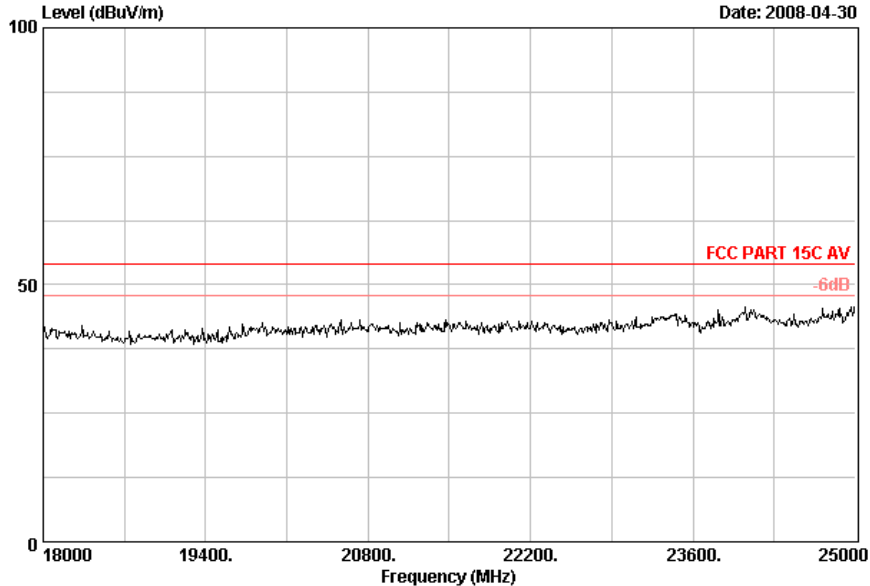
No.6 Ke Feng Road,B1:ck 52,  
ShenZhen Science & Industry Park  
Noutou,ShenZhen,GuangDong,China  
Tel:+86-755-26639495-7  
Fax:+86-755-26632877  
Postcode:518057

Data: 128 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



Site no. : RF Chamber Data no. : 128  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
Power Rating: DC 3.3V From PC AC 120V/60Hz  
Test Mode : IEEE802.11b CH1:2412MHz Tx  
M/N : SMC2536W-AG2

Data: 127 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30

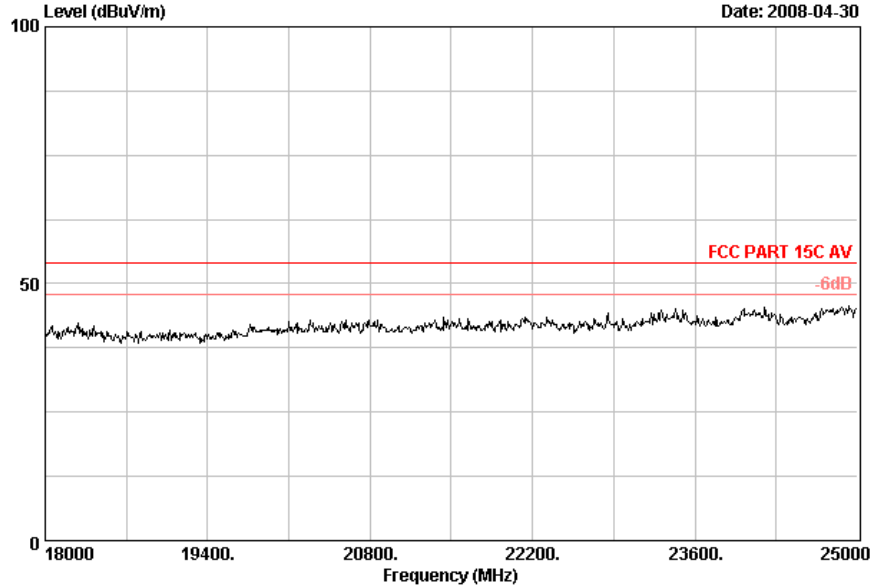


Site no. : RF Chamber Data no. : 127  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
Power Rating: DC 3.3V From PC AC 120V/60Hz  
Test Mode : IEEE802.11b CH1:2412MHz Tx  
M/N : SMC2536W-AG2



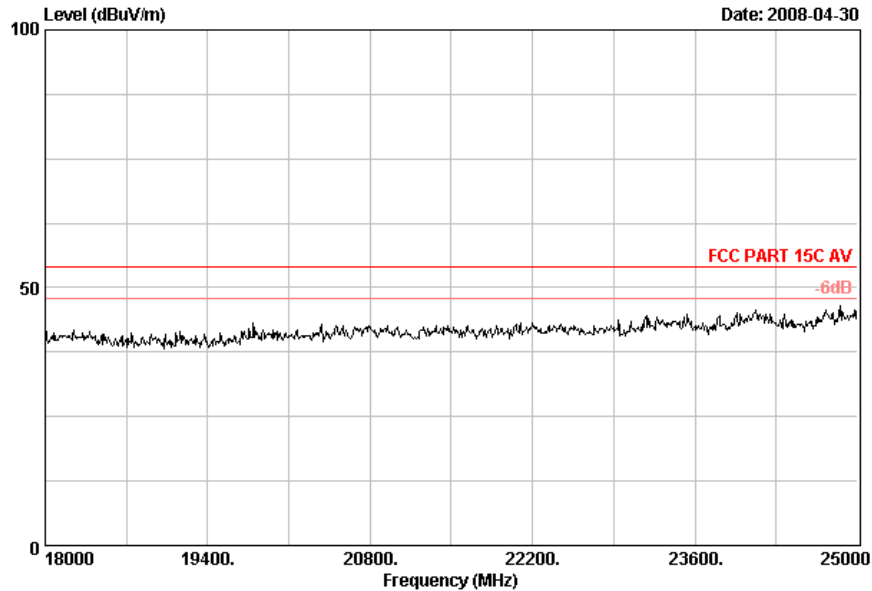
No.6 Ke Feng Road,B1;ck 52,  
 ShenZhen Science & Industry Park  
 Noutou,ShenZhen,GuangDong,China  
 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 129 File: D:\2008 report data\TTP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



Site no. : RF Chamber Data no. : 129  
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

Data: 130 File: D:\2008 report data\TTP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



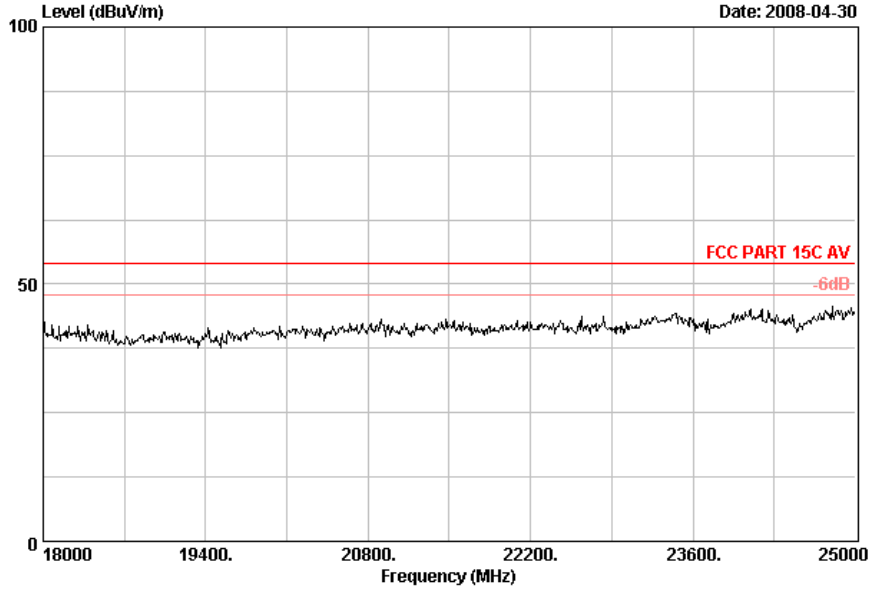
Site no. : RF Chamber Data no. : 130  
 Dis. / Ant. : 3m Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx  
 M/N : SMC2536W-AG2





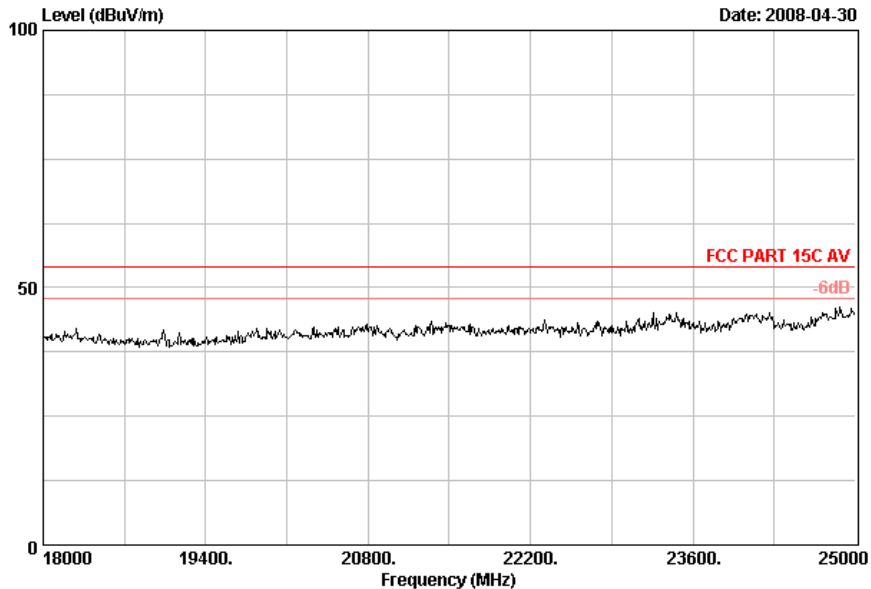
No.6 Ke Feng Road,B1;ck 52,  
 ShenZhen Science & Industry Park  
 Noutou,ShenZhen,GuangDong,China  
 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 132 File: D:\2008 report data\TTP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



Site no. : RF Chamber Data no. : 132  
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

Data: 131 File: D:\2008 report data\TTP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30

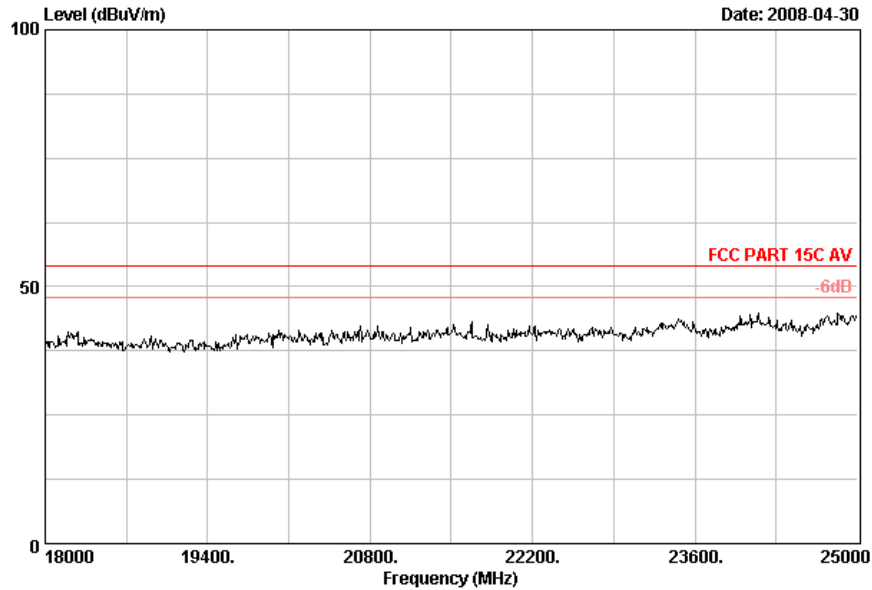


Site no. : RF Chamber Data no. : 131  
 Dis. / Ant. : 3m Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx  
 M/N : SMC2536W-AG2



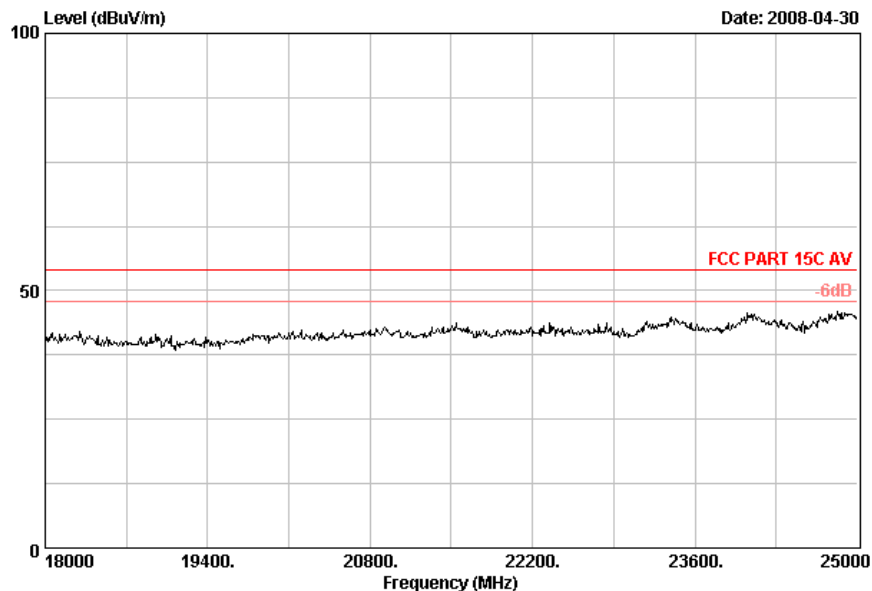
No.6 Ke Feng Road,B1;ck 52,  
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 Fax:+86-755-26632877  
 Postcode:518057

Data: 133 File: D:\2008 report data\TTP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



Site no. : RF Chamber Data no. : 133  
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2

Data: 134 File: D:\2008 report data\TTP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30

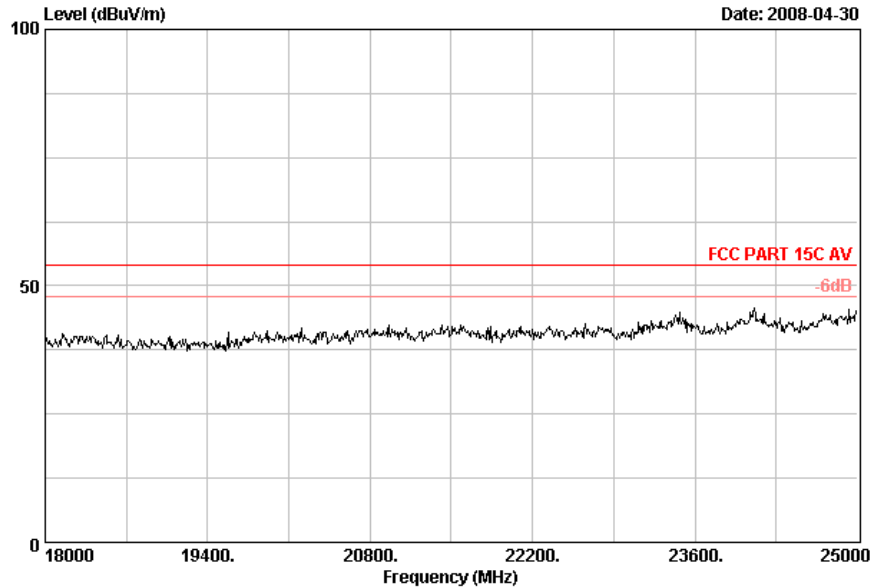


Site no. : RF Chamber Data no. : 134  
 Dis. / Ant. : 3m Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx  
 M/N : SMC2536W-AG2



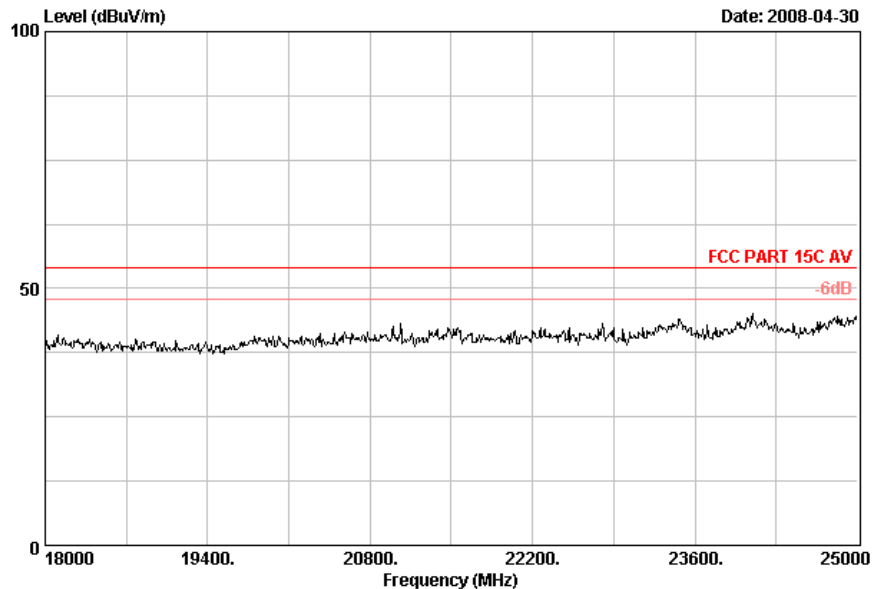
No.6 Ke Feng Road,B1;ck 52,  
 ShenZhen Science & Industry Park  
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 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 136 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



Site no. : RF Chamber Data no. : 136  
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2

Data: 135 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30

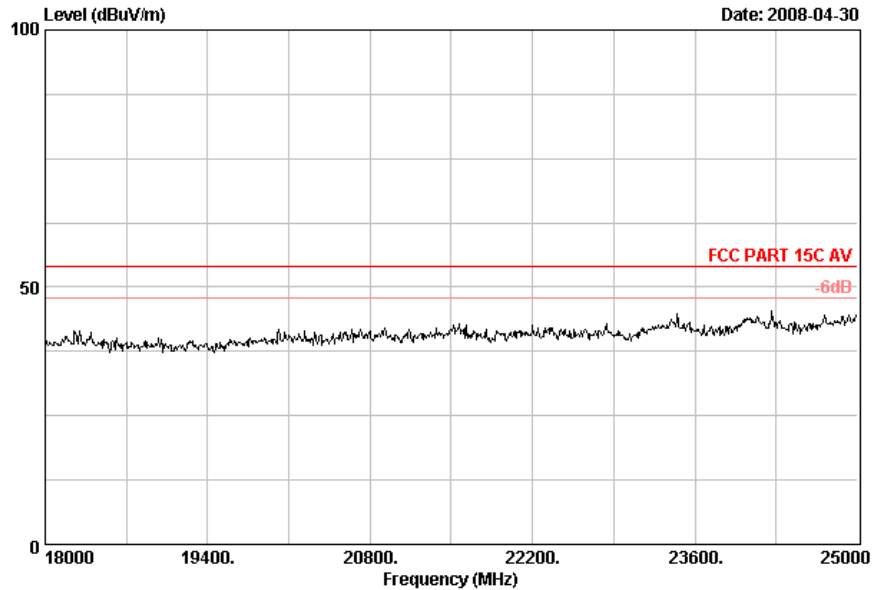


Site no. : RF Chamber Data no. : 135  
 Dis. / Ant. : 3m Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx  
 M/N : SMC2536W-AG2



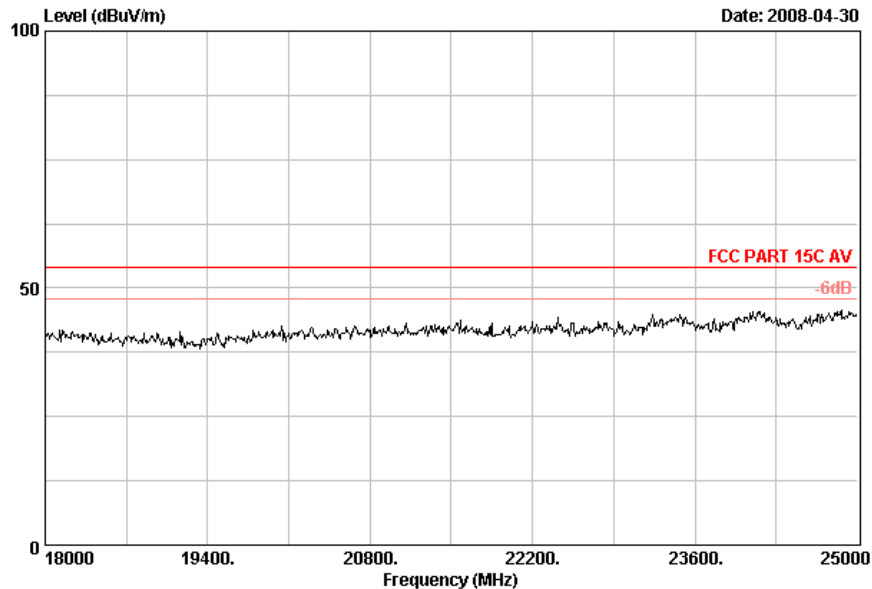
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 Fax:+86-755-26632877  
 Postcode:518057

Data: 137 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30



Site no. : RF Chamber Data no. : 137  
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

Data: 138 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (138) Date: 2008-04-30

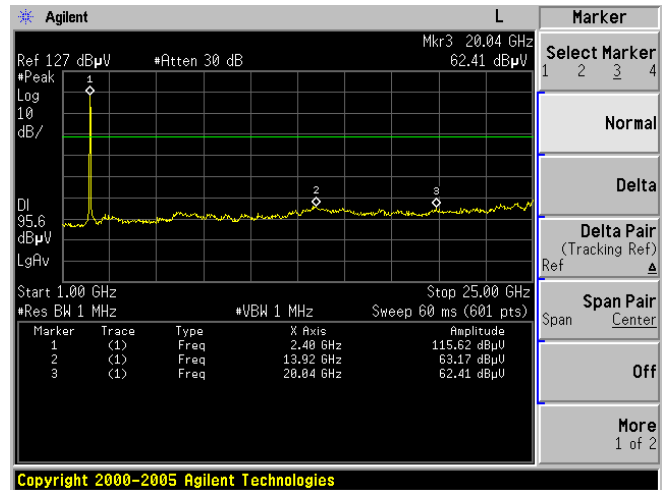
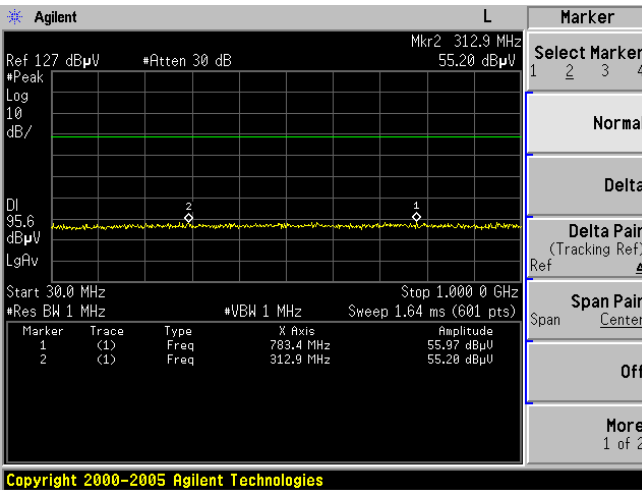


Site no. : RF Chamber Data no. : 138  
 Dis. / Ant. : 3m Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx  
 M/N : SMC2536W-AG2

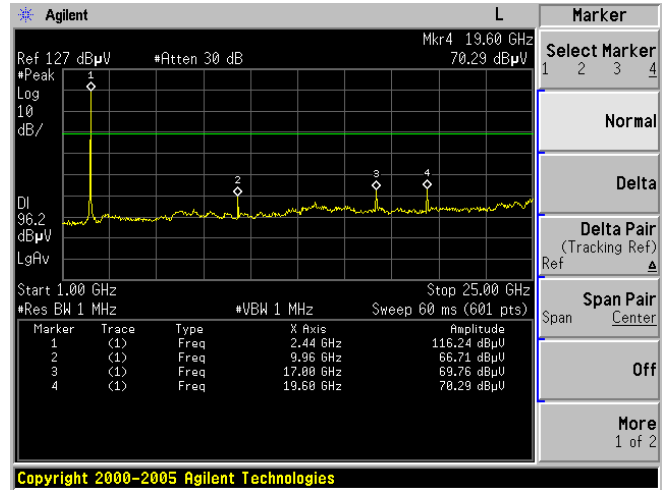
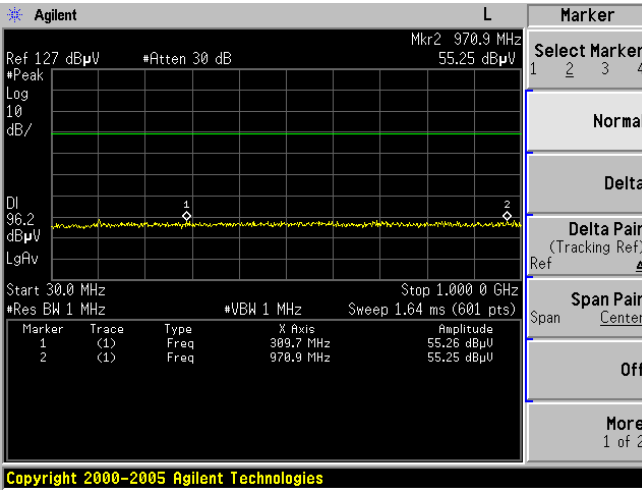
**Conducted emission test data:**

Test Mode: IEEE 802.11b TX

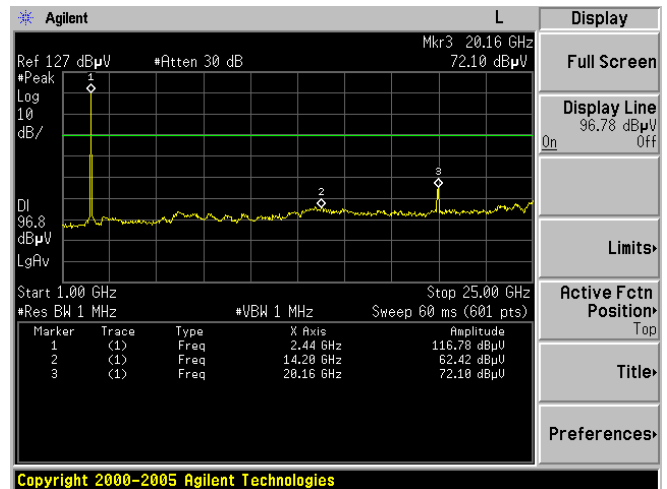
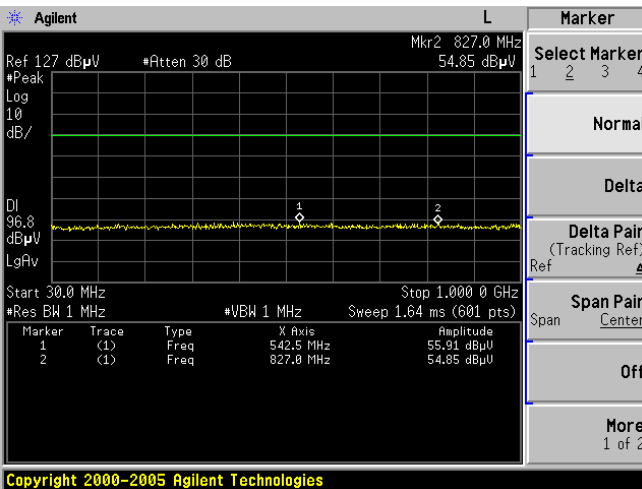
Test CH1: 2412MHz



**Test CH6: 2437MHz**

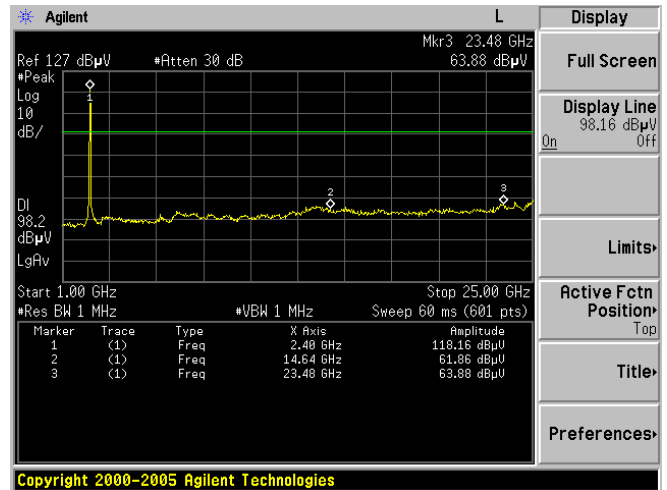
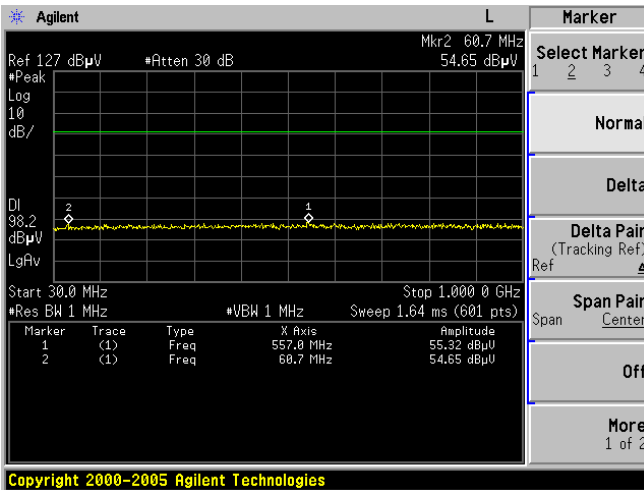


**Test CH11: 2462MHz**

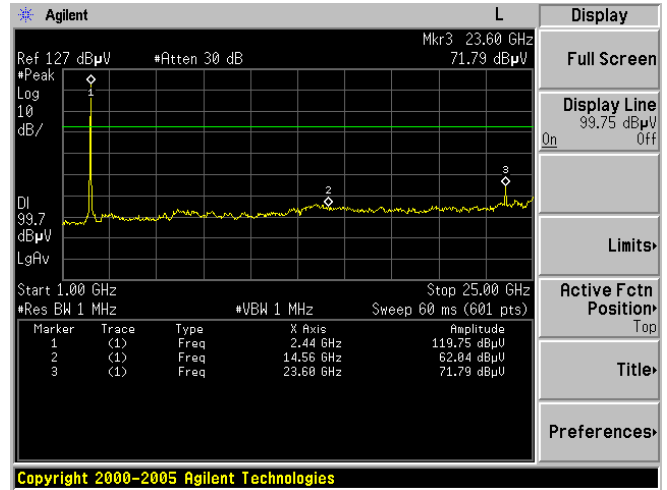
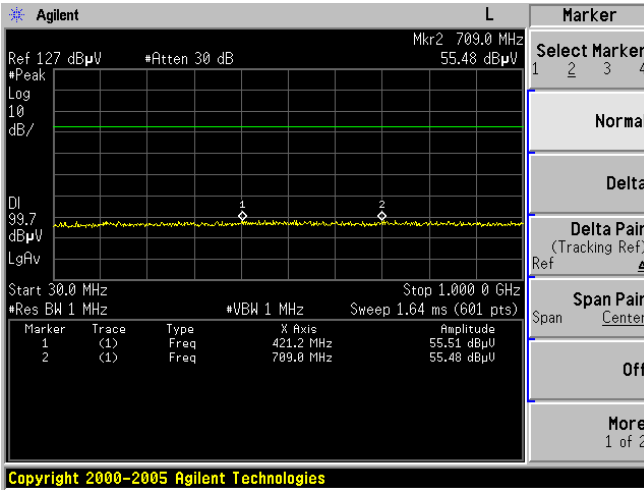


Test Mode: IEEE 802.11g TX

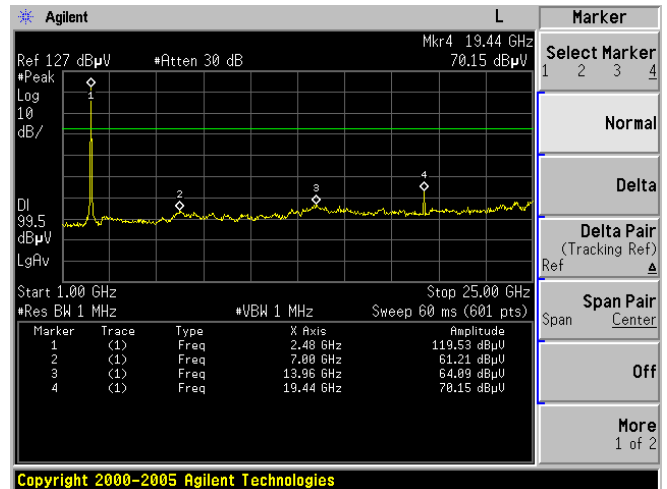
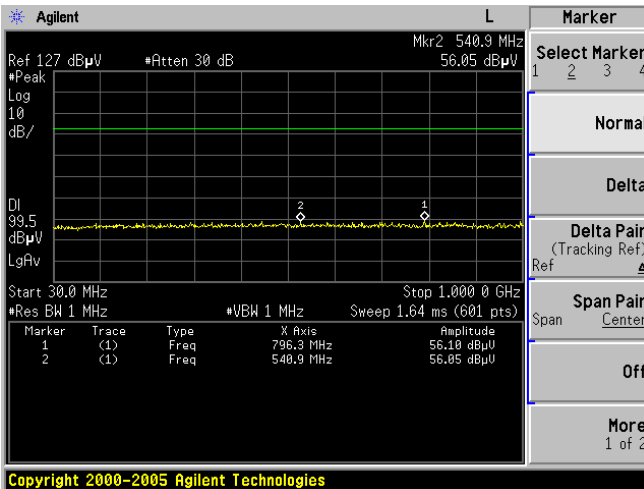
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



## 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,10, 08	1 Year
2	RF Cable	MIYAZAKI	8D-FB	NO 3	May,10,08	1 Year

### 5.2. Test Information

EUT:	EliteConnect™ Dualband Wireless Cardbus Adapter
M/N:	SMC2536W-AG2
Test Date:	May.14, 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
Test Frequency:	CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz
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

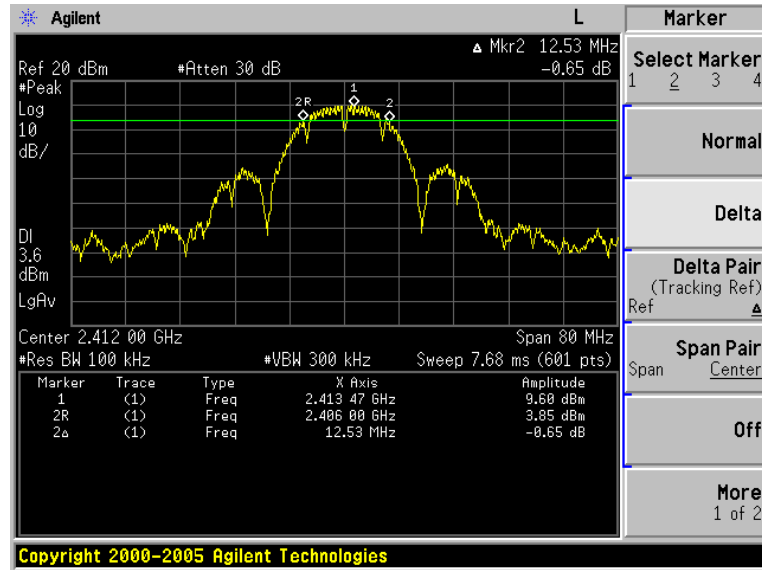
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.53	>500	PASS
6	12.00	>500	PASS
11	13.07	>500	PASS

Test Mode: IEEE 802.11g TX

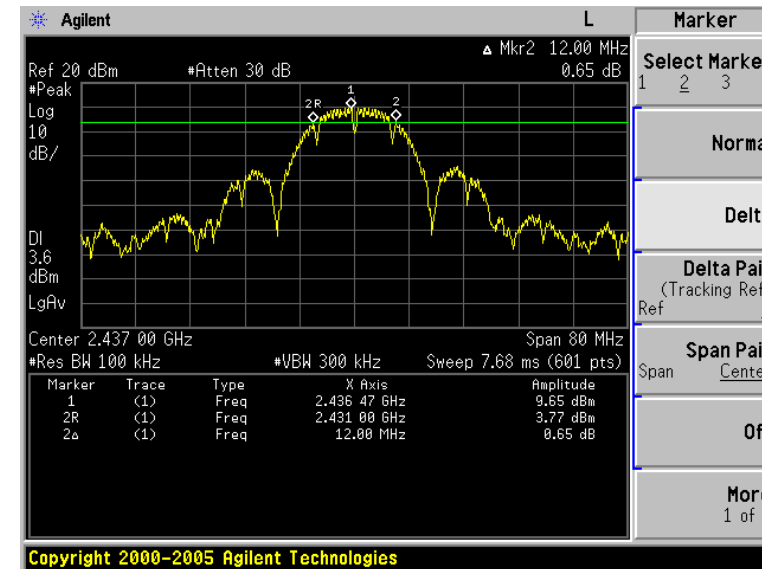
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.40	>500	PASS
6	16.53	>500	PASS
11	16.53	>500	PASS

Test Mode: IEEE 802.11b TX

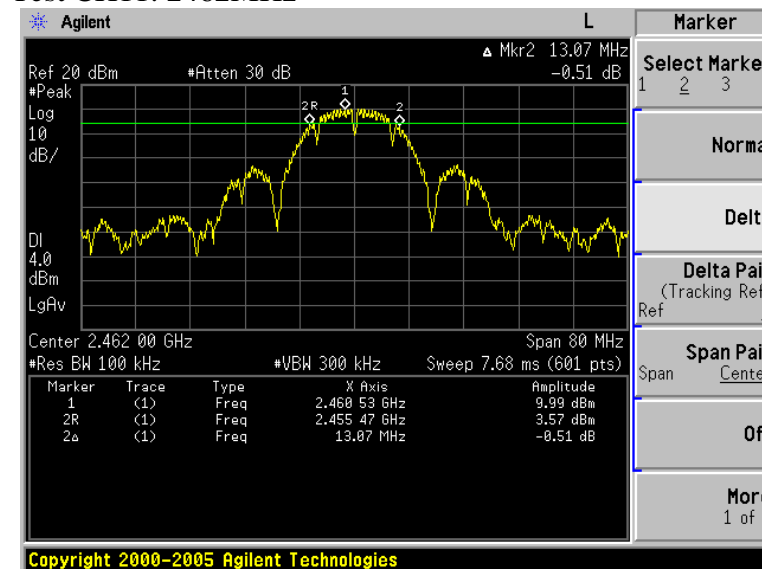
Test CH1: 2412MHz



Test CH6: 2437MHz



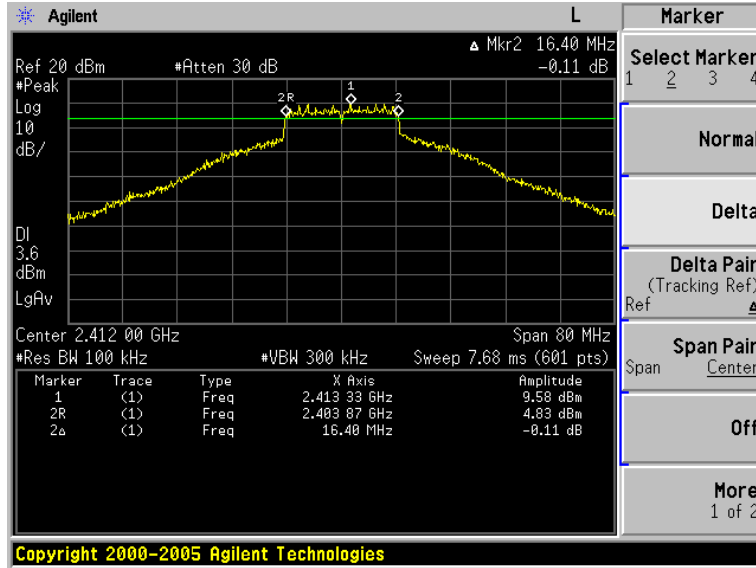
Test CH11: 2462MHz



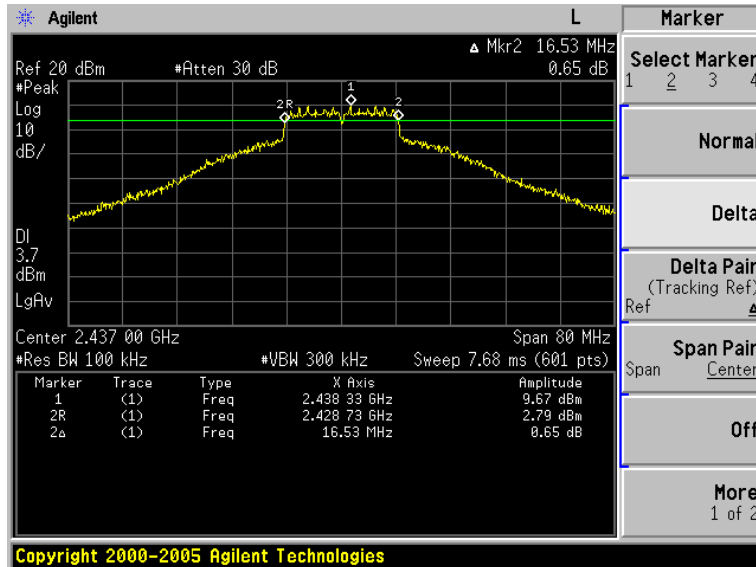


Test Mode: IEEE 802.11g TX

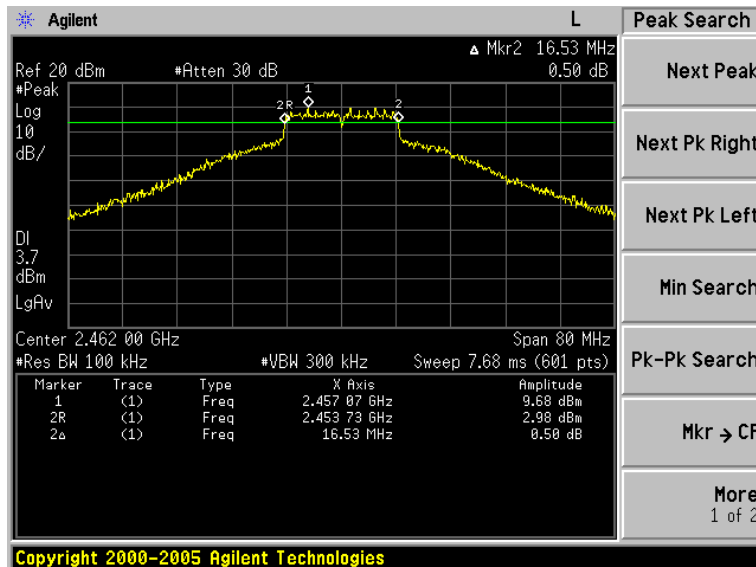
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



## 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,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Power sensor	Anritsu	MA2491A	032516	May,10, 08	1 Year
4	Power meter	Anritsu	ML2487A	6K00002472	May,10, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
6	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

### 6.2. Test Procedure

The transmitter output was connected to a power meter, use the power meter to read out the peak out put power.

## 6.3. Test Results

EUT: EliteConnect™ Dualband Wireless Cardbus Adapter							
MN: SMC2536W-AG2							
Test Voltage: DC 3.3V From PC AC 120V/60Hz							
Data Rate: 11b 1Mbps ; 11g : 6Mbps ; (Note 1)							
Ambient Temperature: 23°C				Relative Humidity: 60%			
Test date: 2008/05/14				Test Site: RF site		Tested by: Jamy	
Test Results							
Softset	Mode	CH	Peak read (dBm)	Cable loss1	cable loss2	Peak Power (dBm)	Limit (dBm)
17.5	11b	CH1	16.34	0.61	1.30	18.25	30.00
		CH6	16.52	0.61	1.30	18.43	30.00
		CH11	16.56	0.62	1.30	18.48	30.00
15.5	11g	CH1	18.75	0.61	1.30	20.66	30.00
		CH6	18.89	0.61	1.30	20.80	30.00
		CH11	18.72	0.62	1.30	20.64	30.00
Note1: According Exploratory test, These data rate have the maximum output power							

## 7. BAND EDGE COMPLIANCE TEST

### 7.1. Test Equipment

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

### 7.2. Limit

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

### 7.3. Test Procedure

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

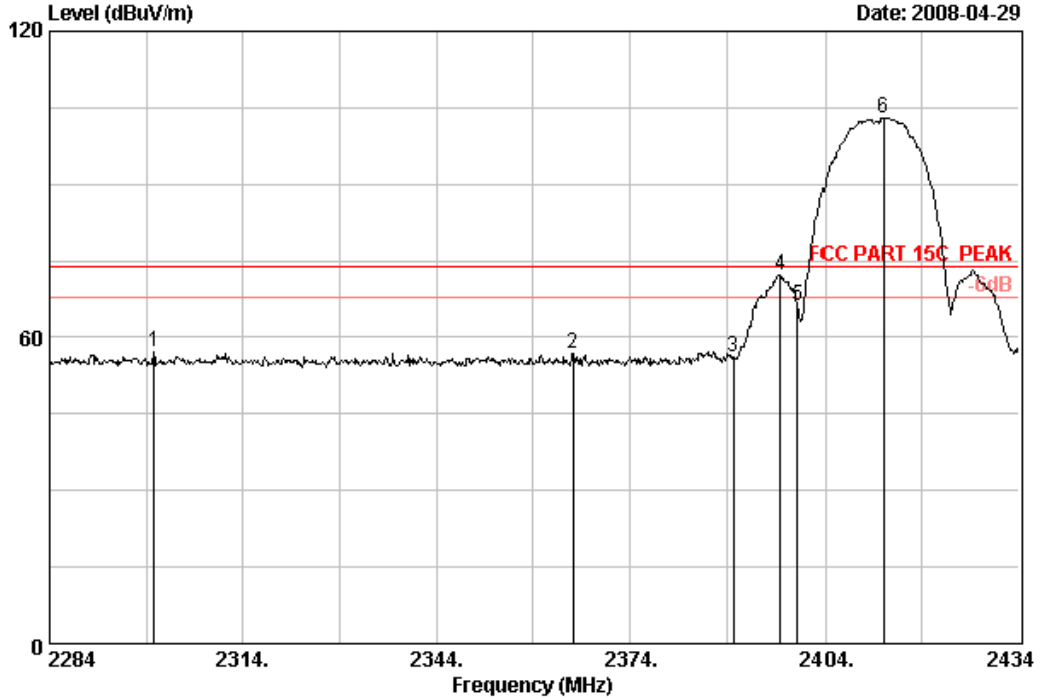
### 7.4. Test Results

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



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 Postcode:518057

Data: 83 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)



Site no. : 3# Chamber Data no. : 83  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

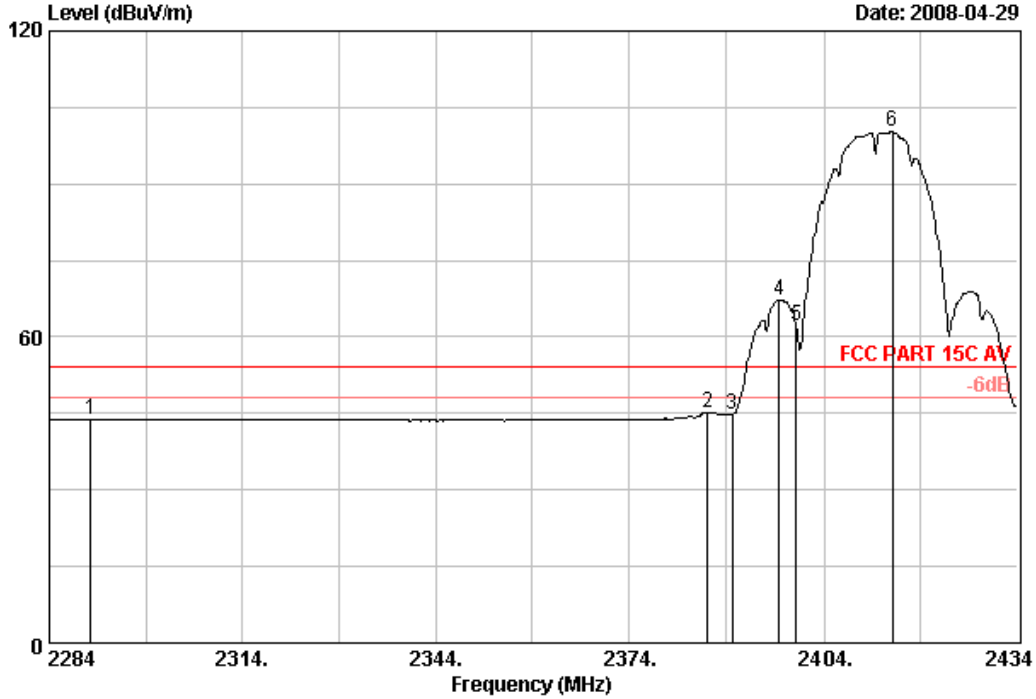
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2300.20	28.75	6.63	35.21	57.04	57.21	74.00	16.79	Peak
2	2365.15	28.91	6.69	35.19	56.41	56.82	74.00	17.18	Peak
3	2390.00	28.99	6.71	35.18	55.55	56.07	74.00	17.93	Peak
4	2397.25	28.99	6.73	35.18	71.73	72.27	74.00	1.73	Peak
5	2400.00	28.99	6.73	35.18	65.50	66.04	74.00	7.96	Peak
6	2413.00	29.03	6.77	35.17	102.41	103.04	74.00	-29.04	Peak

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



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 Postcode:518057

Data: 84 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)



Site no. : 3# Chamber Data no. : 84  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

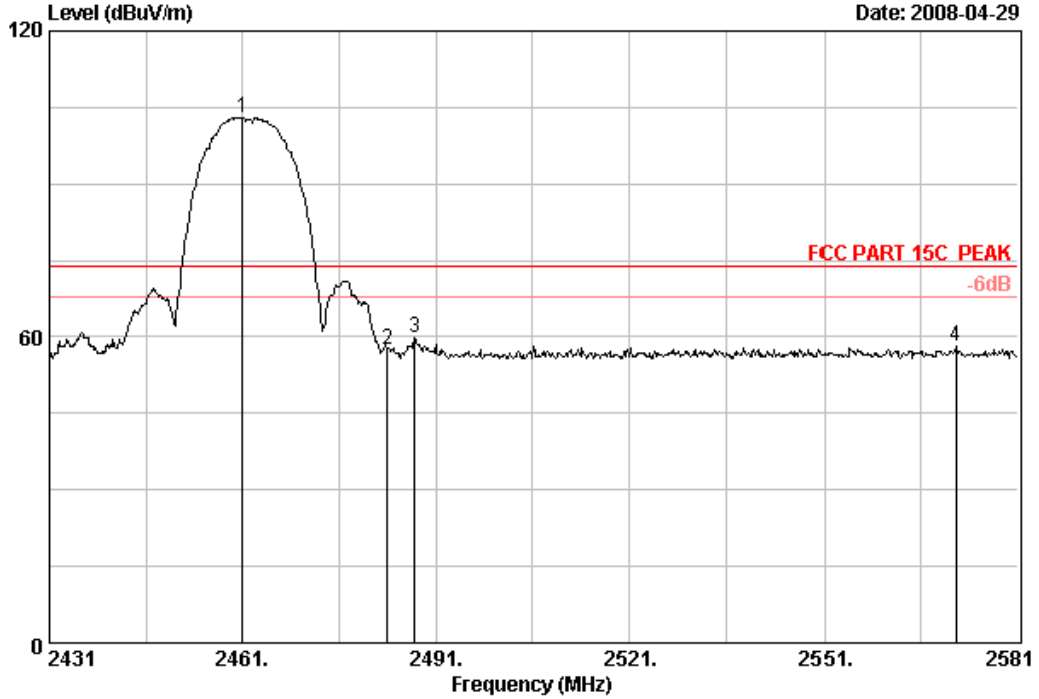
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2290.45	28.75	6.61	35.21	43.76	43.91	54.00	10.09	Average
2	2386.15	28.99	6.71	35.19	44.75	45.26	54.00	8.74	Average
3	2390.00	28.99	6.71	35.18	44.26	44.78	54.00	9.22	Average
4	2397.25	28.99	6.73	35.18	66.80	67.34	54.00	-13.34	Average
5	2400.00	28.99	6.73	35.18	61.51	62.05	54.00	-8.05	Average
6	2414.65	29.03	6.77	35.17	99.62	100.25	54.00	-46.25	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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Data: 85 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)



Site no. : 3# Chamber Data no. : 85  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 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	2461.00	29.15	6.84	35.17	102.25	103.07	74.00	-29.07	Peak
2	2483.50	29.19	6.87	35.16	56.46	57.36	74.00	16.64	Peak
3	2487.70	29.23	6.87	35.15	58.85	59.80	74.00	14.20	Peak
4	2571.40	29.47	7.01	35.13	56.79	58.14	74.00	15.86	Peak

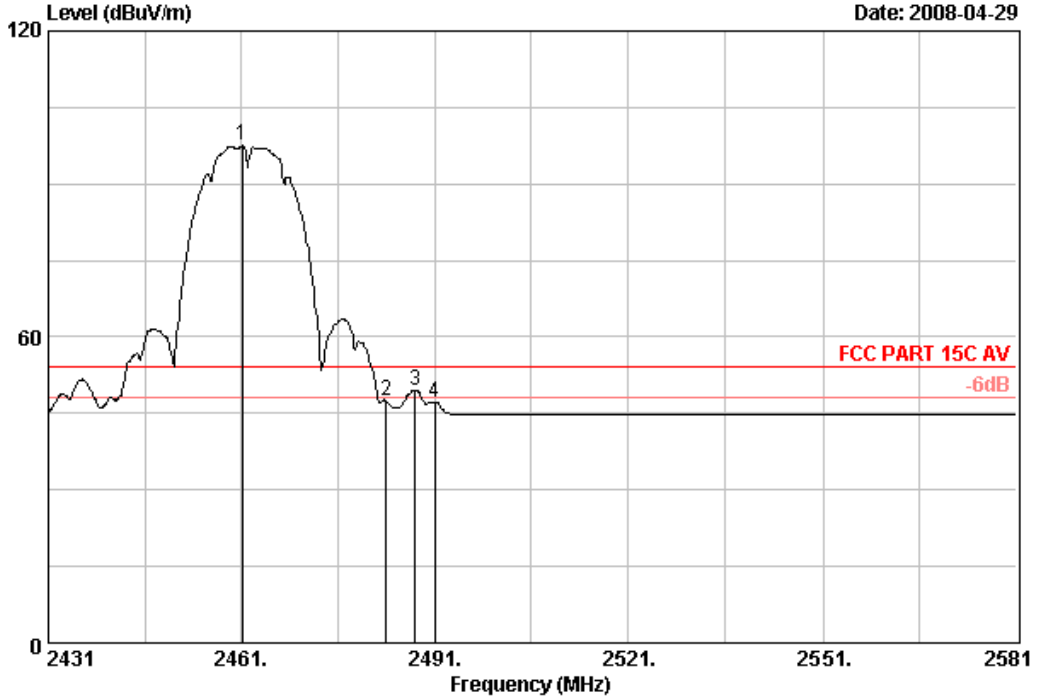
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 86 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)

Date: 2008-04-29



Site no. : 3# Chamber Data no. : 86  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 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	2461.15	29.15	6.84	35.17	96.65	97.47	54.00	-43.47	Average
2	2483.50	29.19	6.87	35.16	46.64	47.54	54.00	6.46	Average
3	2488.00	29.23	6.87	35.15	48.60	49.55	54.00	4.45	Average
4	2491.00	29.23	6.91	35.15	46.26	47.25	54.00	6.75	Average

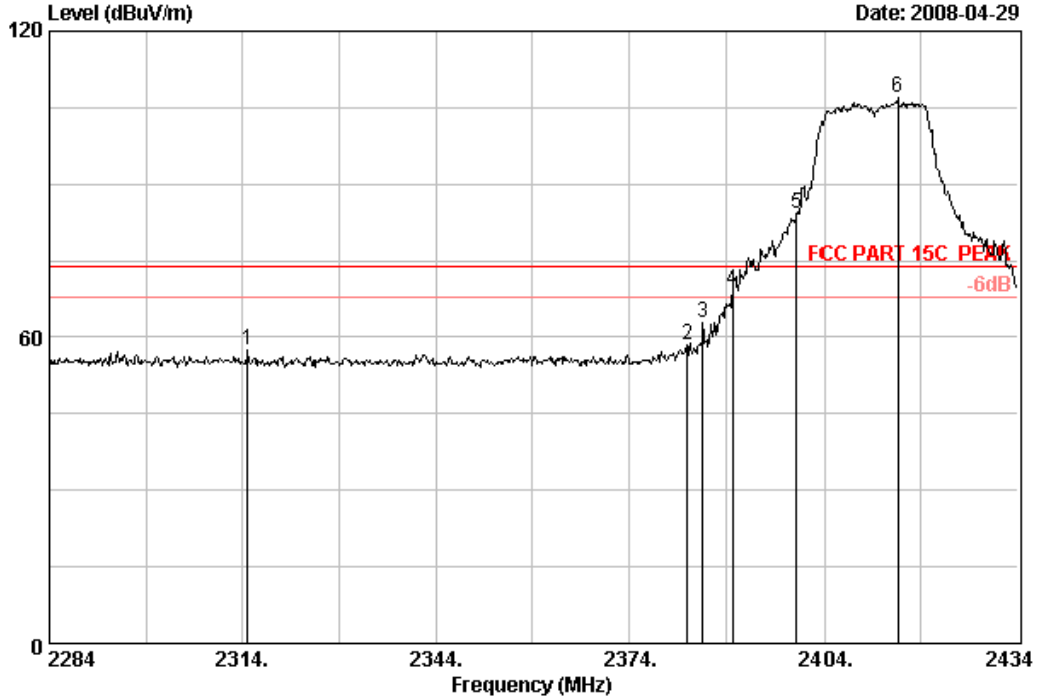
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 87 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)



Site no. : 3# Chamber Data no. : 87  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

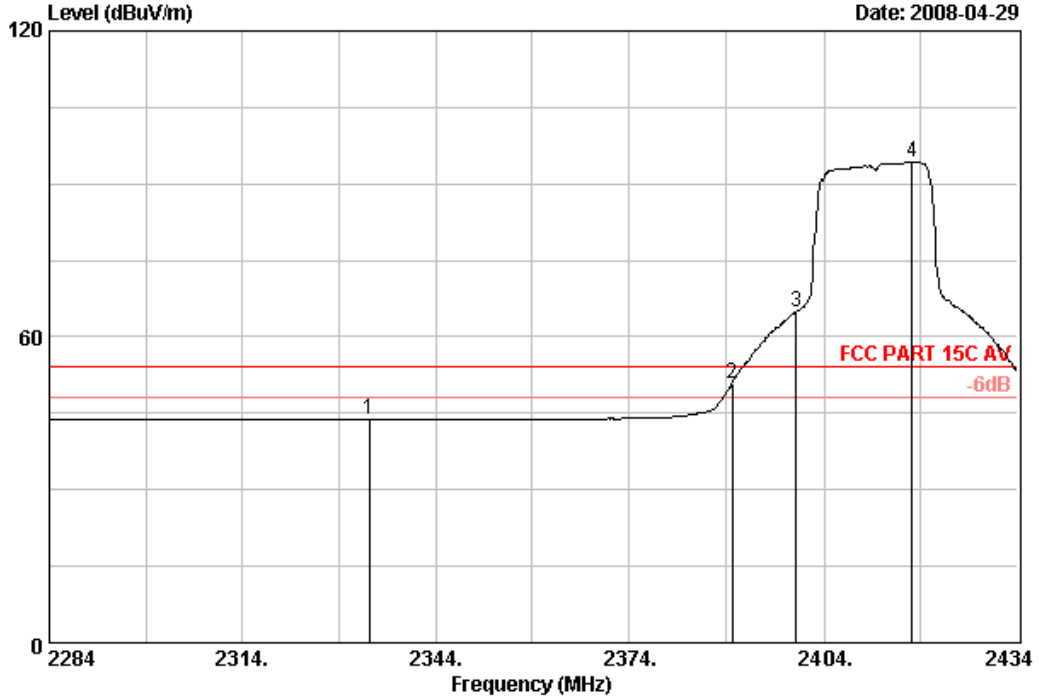
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2314.75	28.79	6.63	35.20	57.15	57.37	74.00	16.63	Peak
2	2383.00	28.95	6.71	35.19	58.17	58.64	74.00	15.36	Peak
3	2385.40	28.95	6.71	35.19	62.34	62.81	74.00	11.19	Peak
4	2390.00	28.99	6.71	35.18	68.63	69.15	74.00	4.85	Peak
5	2400.00	28.99	6.73	35.18	83.63	84.17	74.00	-10.17	Peak
6	2415.40	29.03	6.77	35.17	106.24	106.87	74.00	-32.87	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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Data: 88 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)



Site no. : 3# Chamber Data no. : 88  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz 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	2333.65	28.83	6.65	35.20	43.49	43.77	54.00	10.23	Average
2	2390.00	28.99	6.71	35.18	50.25	50.77	54.00	3.23	Average
3	2400.00	28.99	6.73	35.18	64.44	64.98	54.00	-10.98	Average
4	2417.65	29.03	6.77	35.17	93.58	94.21	54.00	-40.21	Average

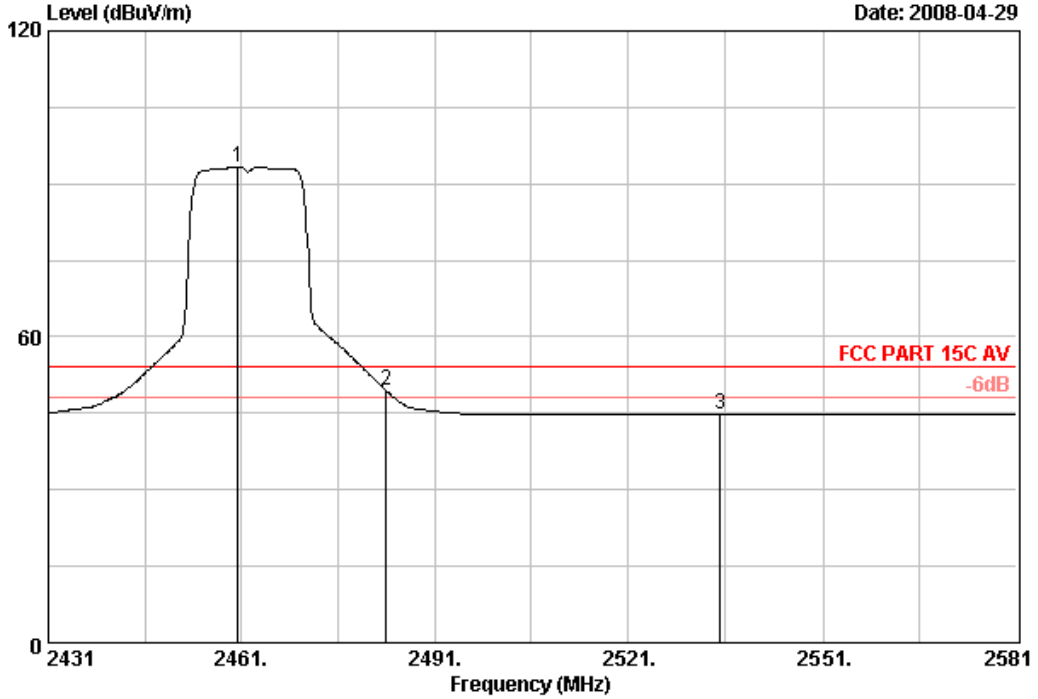
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 90 File: D:\2008 report data\T\TP-LINK\ACS8Q163.EMI (155)

Date: 2008-04-29



Site no. : 3# Chamber Data no. : 90  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

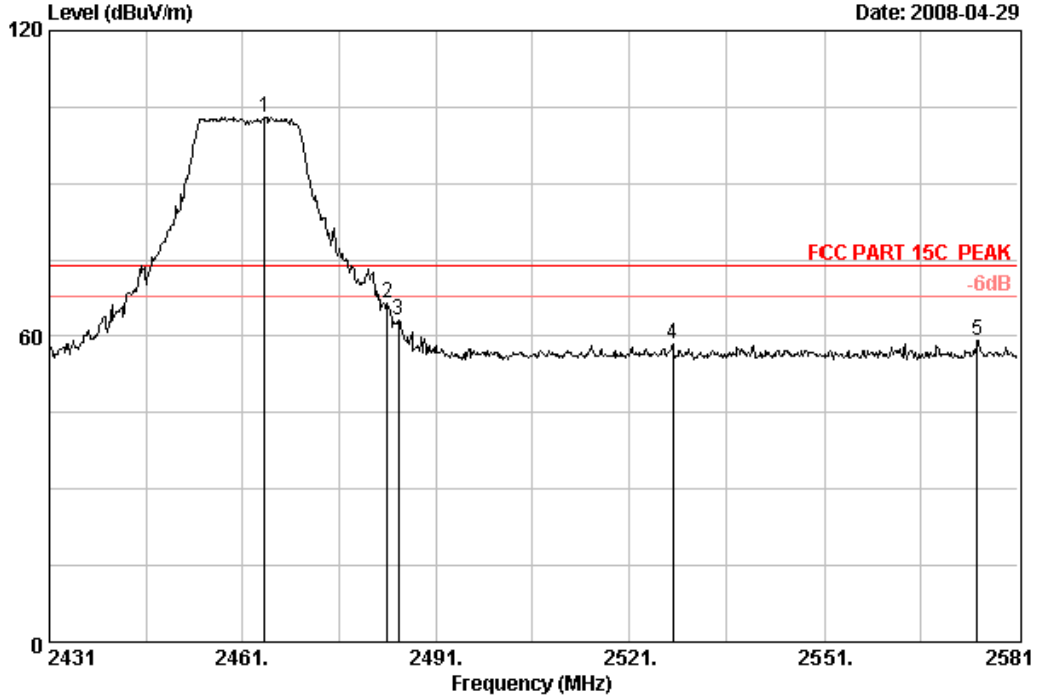
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.40	29.15	6.84	35.17	92.40	93.22	54.00	-39.22	Average
2	2483.50	29.19	6.87	35.16	48.59	49.49	54.00	4.51	Average
3	2535.25	29.35	6.96	35.14	43.76	44.93	54.00	9.07	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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 Postcode:518057

Data: 89 File: D:\2008 report data\TP-LINK\ACS8Q163.EMI (155)



Site no. : 3# Chamber Data no. : 89  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : EliteConnect™ Dualband Wireless Cardbus Adapter  
 Power Rating: DC 3.3V From PC AC 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	2464.45	29.15	6.84	35.16	102.07	102.90	74.00	-28.90	Peak
2	2483.50	29.19	6.87	35.16	65.66	66.56	74.00	7.44	Peak
3	2485.15	29.19	6.87	35.16	62.15	63.05	74.00	10.95	Peak
4	2527.75	29.35	6.96	35.14	57.29	58.46	74.00	15.54	Peak
5	2574.70	29.52	7.01	35.13	57.84	59.24	74.00	14.76	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.

## 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.10, 08	1 Year
2	RF Cable	MIYAZAKI	8D-FB	NO 3	May.10, 08	1 Year

### 8.2. Test Procedure

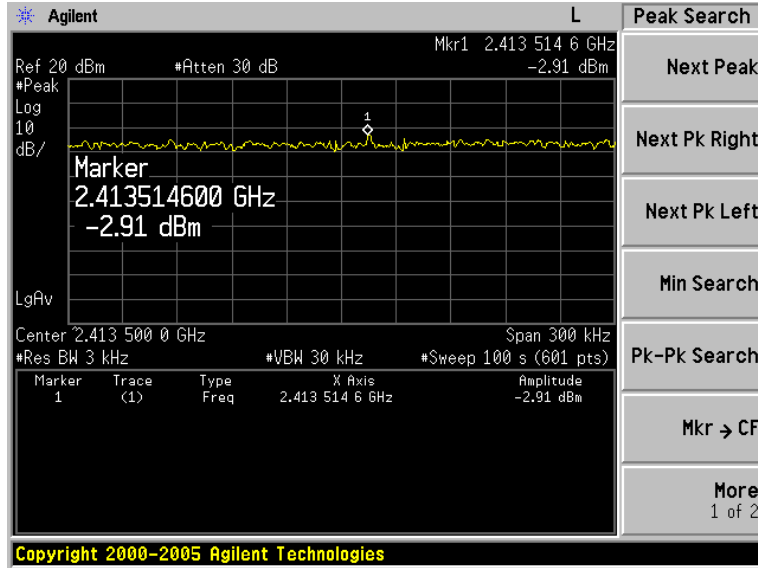
The transmitter output was connected to a spectrum analyzer . The power density was measured by spectrum analyzer with 3 KHz RBW and 30KHz VBW, sweep time=span/3KHz.

### 8.3. Test Results

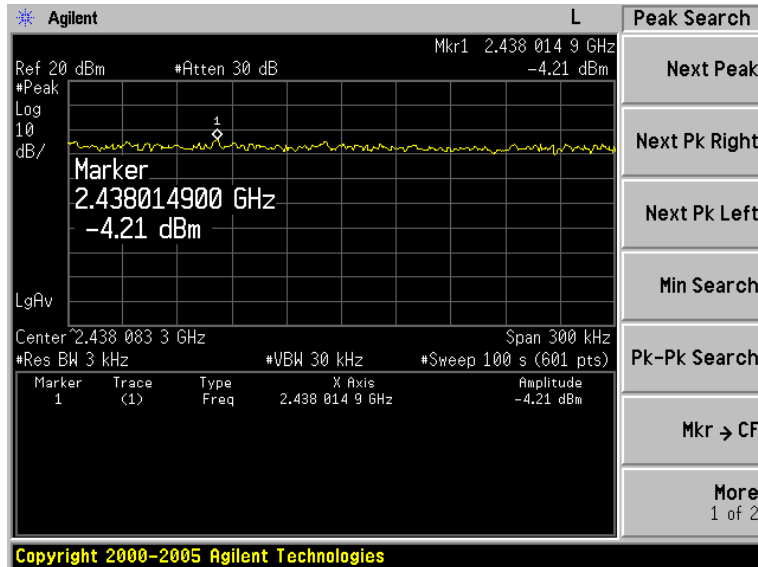
EUT: EliteConnect™ Dualband Wireless Cardbus Adapter						
M/N: SMC2536W-AG2						
Test Voltage: DC 3.3V From PC AC 120V/60Hz						
Data Rate: 11b: 1Mbps ; 11g : 6Mbps (Note 1)						
Ambient Temperature:23℃			Relative Humidity: 60%			
Test date: 2008/05/14		Test site: RF site		Tested By: Jamy		
Test Results						
Mode	CH	Read (dBm)	Cable Loss (dB)	Result (dBm)	Limit(dBm)	Conclusion
11b	CH1	-2.91	1.9	-1.01	8.00	<b>Pass</b>
	CH6	-4.21	1.9	-2.31	8.00	<b>Pass</b>
	CH11	-4.24	1.9	-2.34	8.00	<b>Pass</b>
11g	CH1	-4.92	1.9	-3.02	8.00	<b>Pass</b>
	CH6	-4.71	1.9	-2.81	8.00	<b>Pass</b>
	CH11	-5.51	1.9	-3.61	8.00	<b>Pass</b>
Note1: According Exploratory test, These data rate have the maximum output power						
Note2: Result=Read+ cable loss						

Test Mode: IEEE 802.11b TX

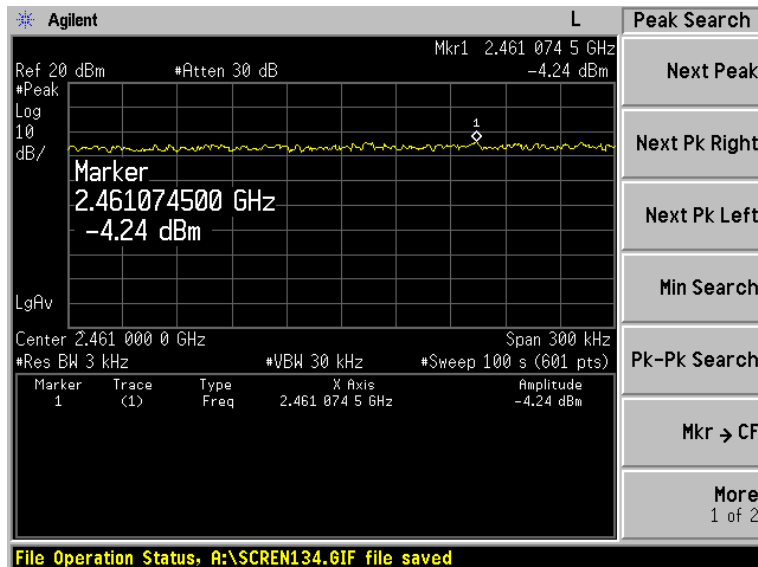
Test CH1: 2412MHz



Test CH6: 2437MHz

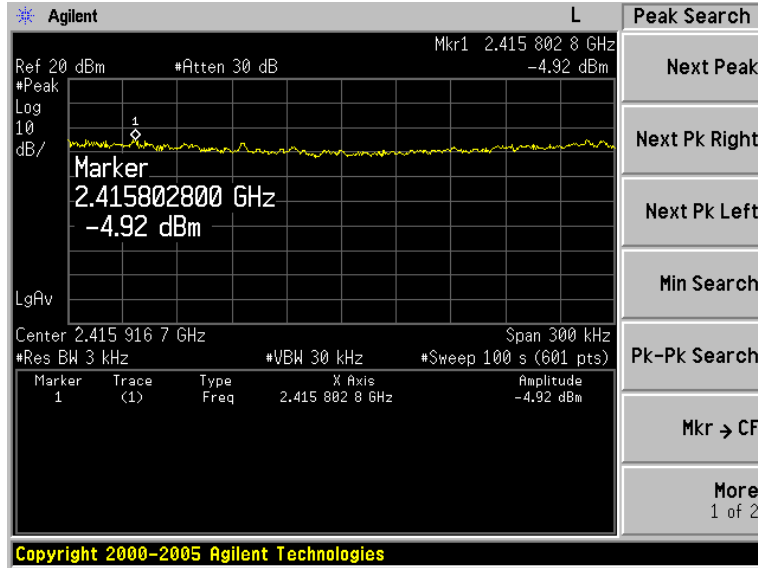


Test CH11: 2462MHz

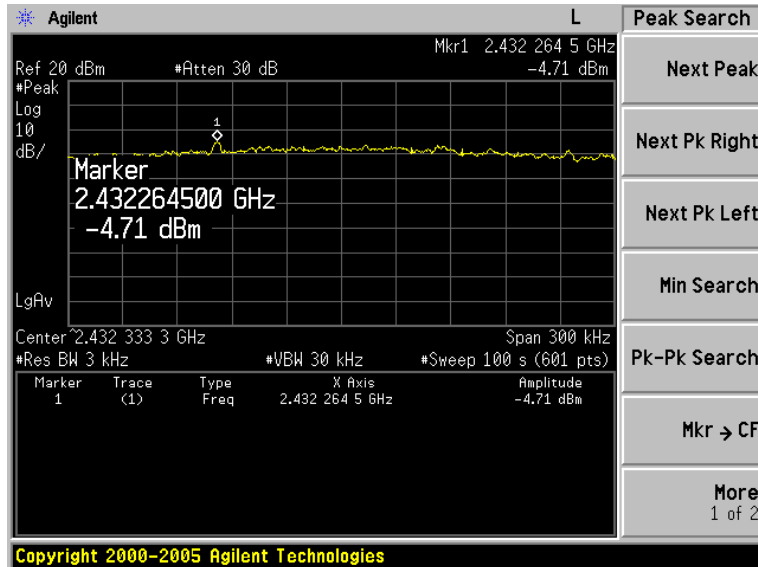


Test Mode: IEEE 802.11g TX

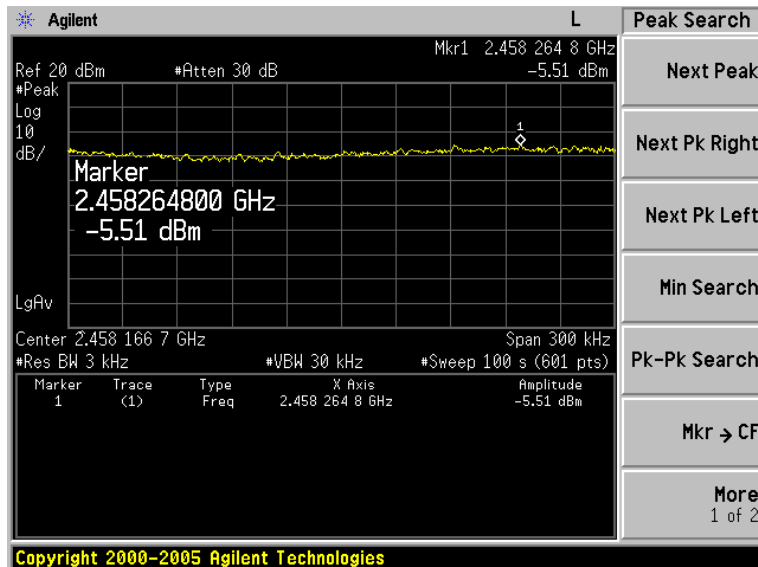
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



## **9. 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 integrated PCB Antenna (see EUT photo) that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain at 2.4GHz of this antenna is 0.44dBi and maximum gain at 5GHz is 4.09dBi



## **10.DEVIATION TO TEST SPECIFICATIONS**

[ NONE]