



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No:

FCC 0806102

File reference No:

2008-06-24

Applicant:

WANLIDA GROUP CO.,LTD.

Product:

Notebook

Model No:

PC-88002

Trademark:

N/A

Test Standards:

FCC Part 15 Subpart C, Paragraph 15.247 & Part 15 Subpart B

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4, Part 15 Subpart B & FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung  
Manager

Dated:

Jun 24, 2008

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD**

5/F, Block 4, Anhua Industrial Zone., No.8 TaiRan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688

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### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

#### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,  
Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Wanlida Group Co., Ltd.  
Address: No.618,Jiahe Road, Xiamen, China 361006  
Telephone: +86-596-7653680-8516  
Fax: +86-596-7662886

### 1.3 Description of EUT

Product:	Notebook
Manufacturer:	Wanlida Group Co., Ltd.
Brand Name:	N/A
Model Number:	PC-88002
Additional Model Name	PC-88005
Additional Trade Name	N/A
Rating:	Input: DC 12V; 24W
Power Supply:	Model: MPA-630, Input: 100-240V~, 1A, 50/60Hz; Output: DC12V, 2A
Type of Modulation	DBPSK、DQPSK、CCK、OFDM
Frequency range	2412-2462MHz
Number of Channel	11
Air Data Rate	54、48、36、24、18、12、9、6Mbps at 802.11g mode; 11、5.5、2、1Mbps at 802.11b mode
Frequency Selection	By software

### 1.4 Submitted Sample

1 Sample

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## 1.5 Test Duration

2008-06-12 to 2008-06-22

## 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

## 1.7 Test Engineer

Terry Tang

The sample tested by \_\_\_\_\_

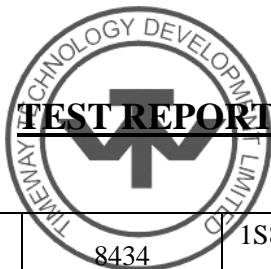
Print Name: Terry Tang

2.0	Test Equipments				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2007-12-05	2008-12-04
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2007-12-05	2008-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2007-12-05	2008-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2007-12-05	2008-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2007-12-05	2008-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2007-03-30	2008-03-29
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2008-02-18	2009-02-17
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2008-02-18	2009-02-17
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2008-02-18	2009-02-17
System Controller	CT	SC100	-	2008-02-18	2009-02-17
Printer	EPSON	PHOTO EX3	CFNH234850	2008-02-18	2009-02-17
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2008-02-18	2009-02-17
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2008-02-18	2009-02-17

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Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2008-02-18	2009-02-17
Power meter	Anritsu	ML2487A	6K00003613	2008-02-18	2008-02-17
Power sensor	Anritsu	MA2491A	32263	2008-02-8	2008-02-17
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2008-02-18	2009-02-17
CDN	EM TEST	CDN M2/M3	-	2008-02-18	2009-02-17
Attenuation	EM TEST	ATT6/75	-	2008-02-18	2009-02-17
Resistance	EM TEST	R100	-	2008-02-18	2009-02-17
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2008-02-18	2009-02-17
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2008-02-18	2009-02-17
Power Amplifier	AR	150W1000	300999	2008-02-18	2009-02-17
Field probe	Holaday	HI-6005	105152	2008-02-18	2009-02-17
Bilog Antenna	Chase	CBL6111C	2576	2008-02-18	2009-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2008-02-18	2009-02-17
3m OATS	--	--	N/A	2008-02-18	2009-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2007-08-16	2008-08-15
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2007-07-03	2008-07-02

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

#### 4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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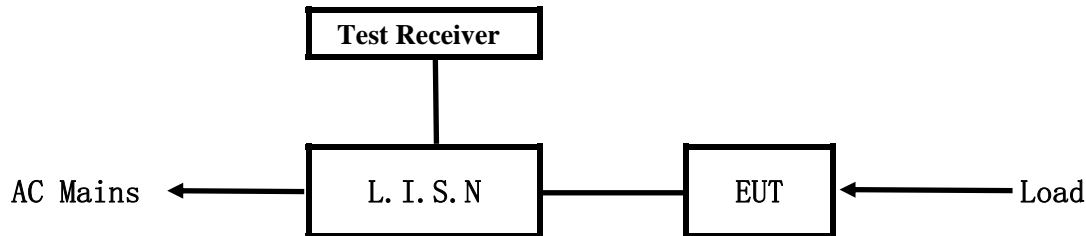
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

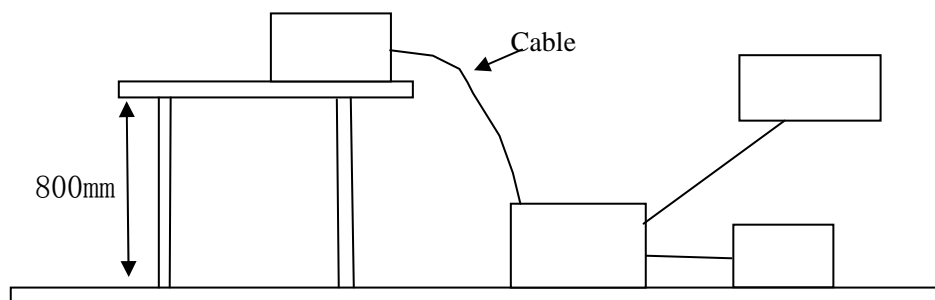


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Two channels are provided to the EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	--	--

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## A. EUT

Device	Manufacturer	Model	FCC ID
Notebook	Wanlida Group Co., Ltd.	PC-88002	SMFPC-88002

## B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

## C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

## 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

## 5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

## 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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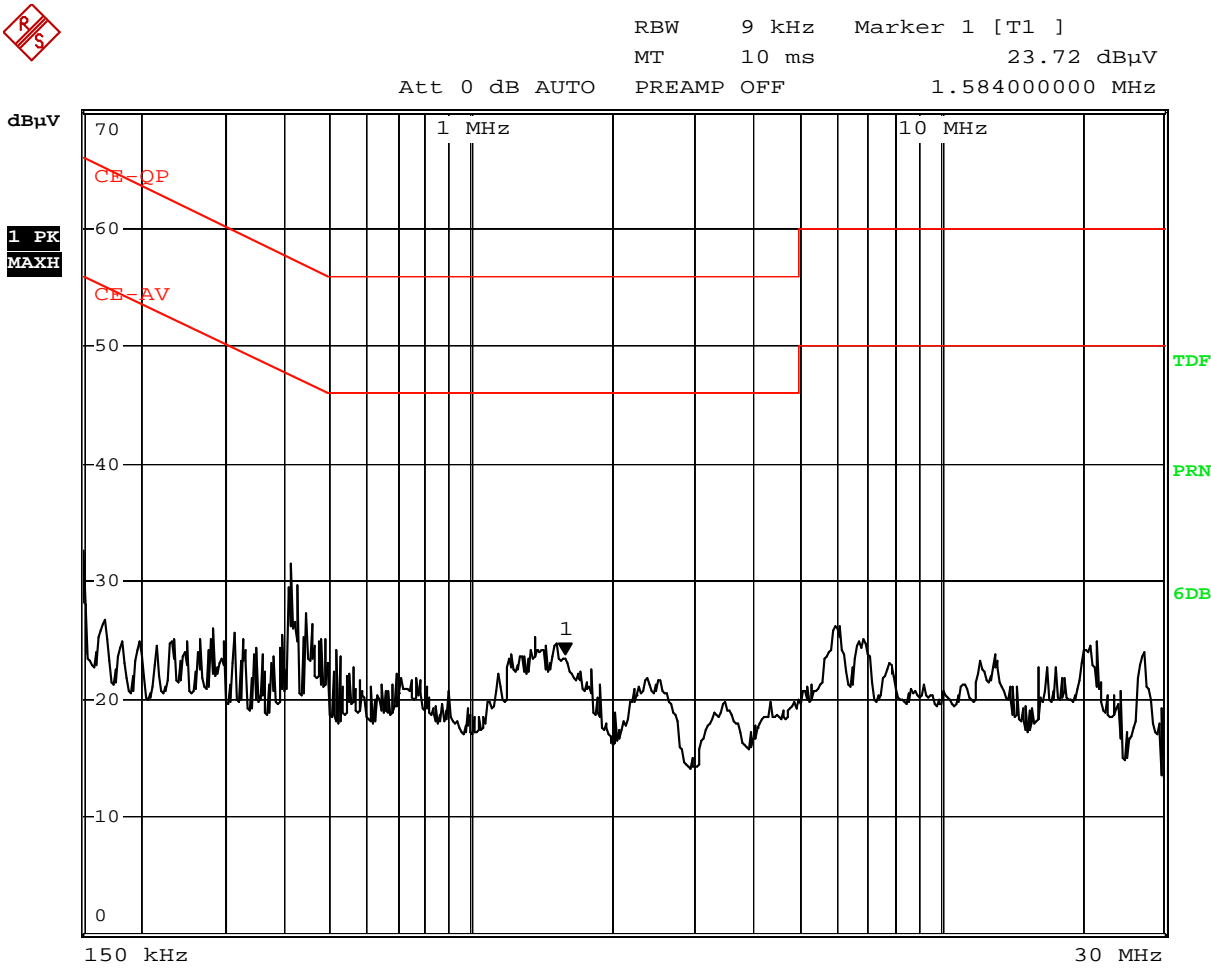


A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping wireless network

Results: Pass

Please refer to following diagram for individual



Date: 17.JUN.2008 12:54:26

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.414	29.54	29.21	--	--	57.60	47.60

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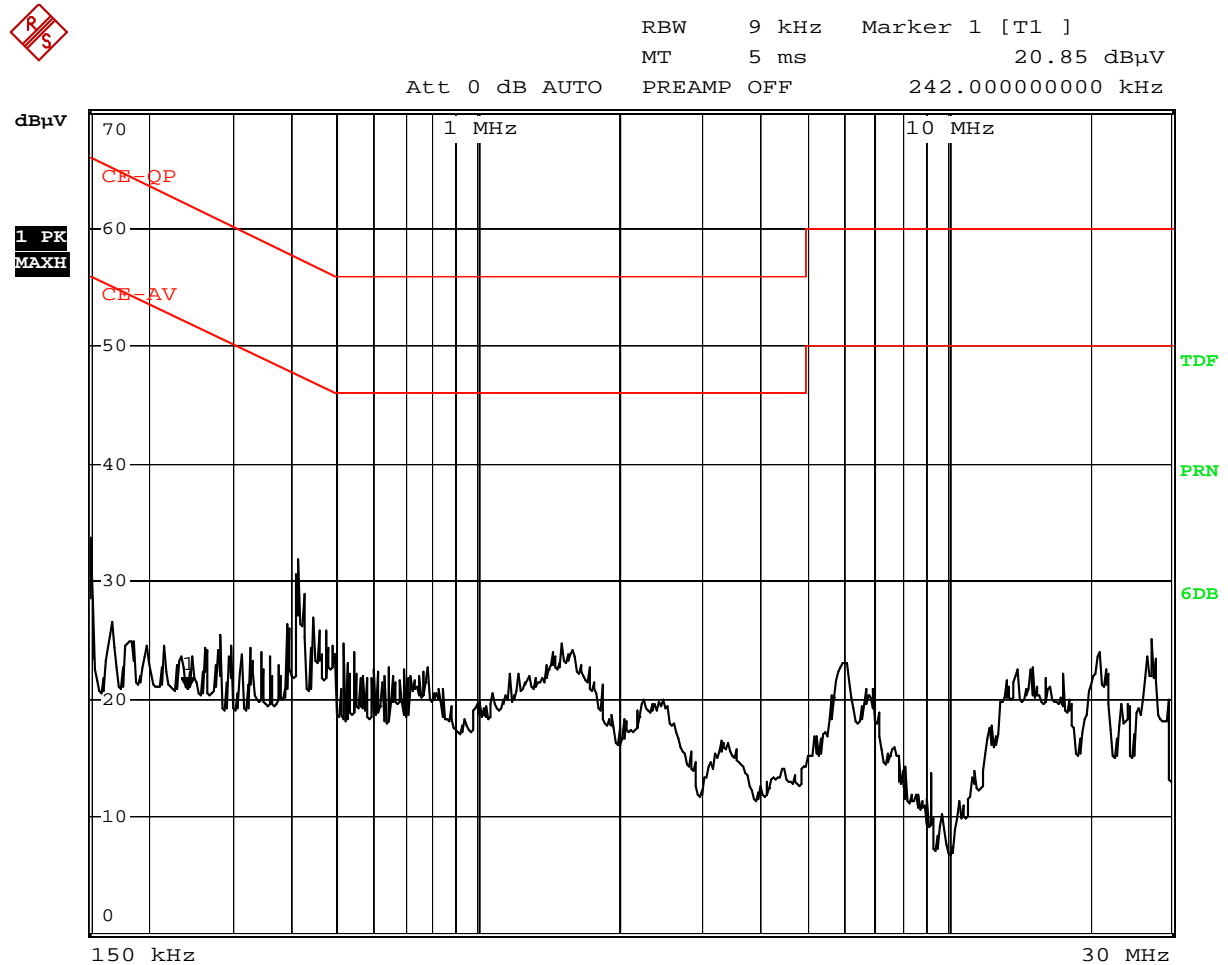


**B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping wireless network

**Results: Pass**

Please refer to following diagram for individual



Date: 17.JUN.2008 12:52:31

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.414	--	--	30.00	29.56	57.60	47.60
1.584	--	--	21.32	18.76	56.00	46.00

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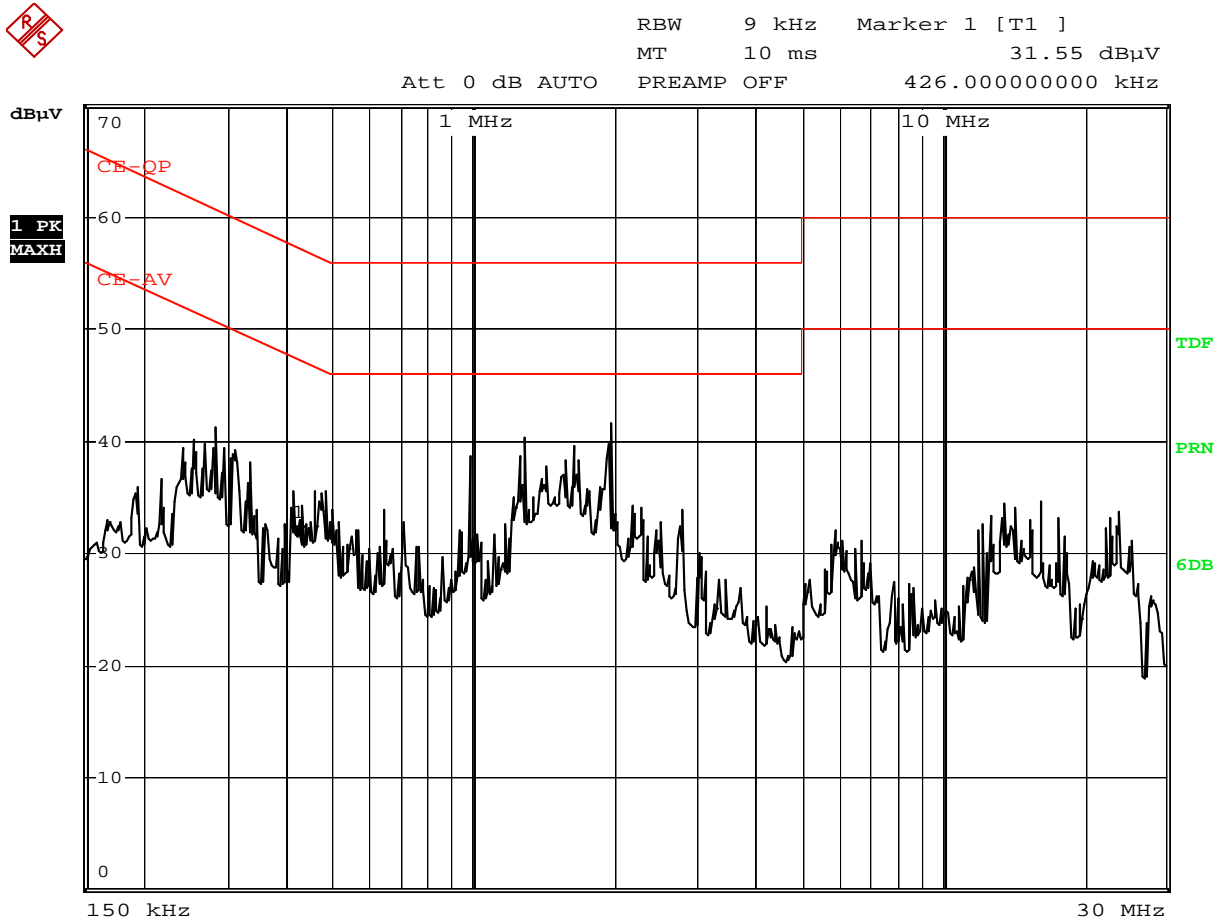


### C Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Running notebook test program and Ping network

**Results: Pass**

Please refer to following diagram for individual



Date: 17.JUN.2008 12:45:17

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.310	34.54	29.21	--	--	60.00	50.00
1.288	33.87	27.98	--	--	56.00	46.00
1.656	33.65	24.55	--	--	56.00	46.00
1.948	36.20	24.43	--	--	56.00	46.00

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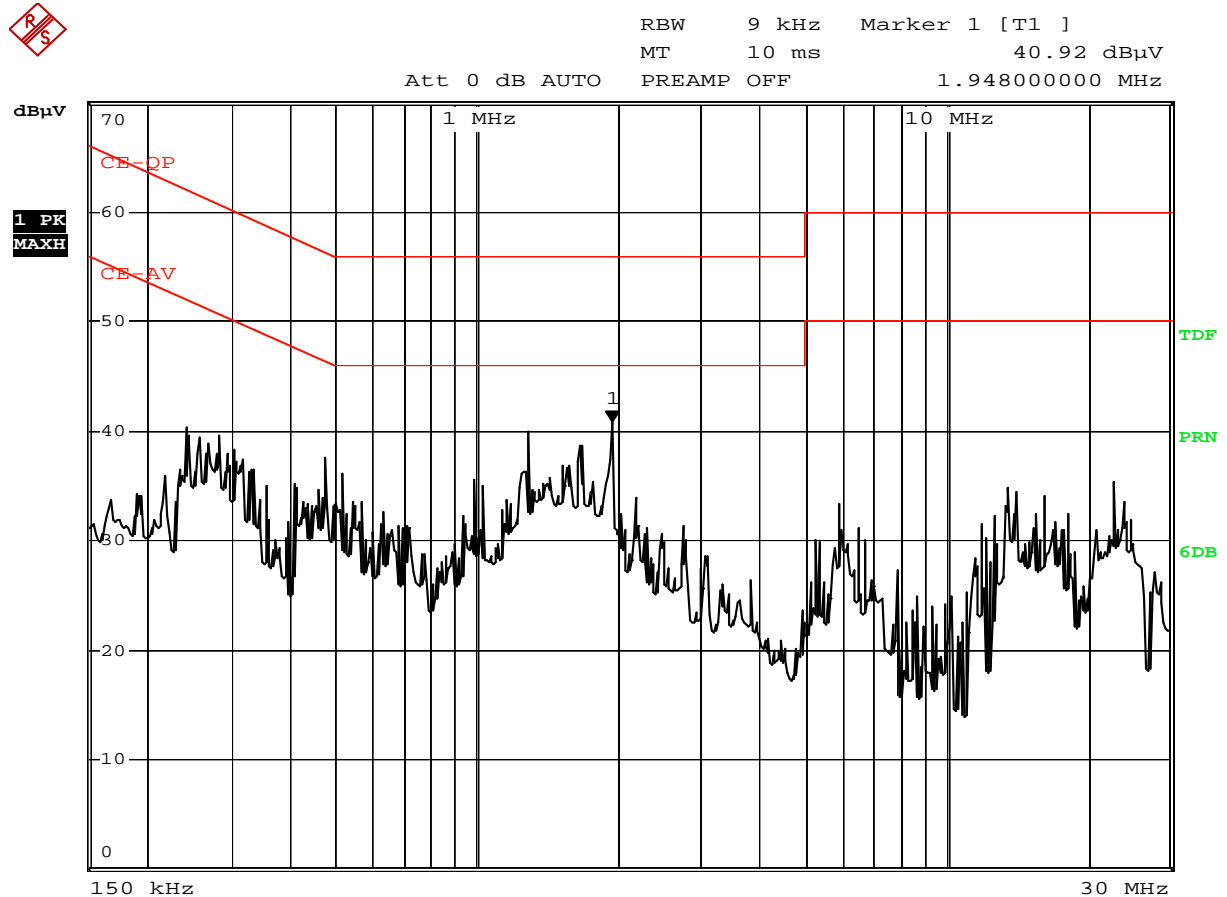


# D Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Running notebook test program and Ping network

Results: Pass

Please refer to following diagram for individual



Date: 17.JUN.2008 12:48:19

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.242	--	--	36.10	30.43	62.00	52.00
1.184	--	--	34.43	27.90	56.00	46.00
1.672	--	--	35.32	24.76	56.00	46.00
1.948	--	--	36.43	24.43	56.00	46.00

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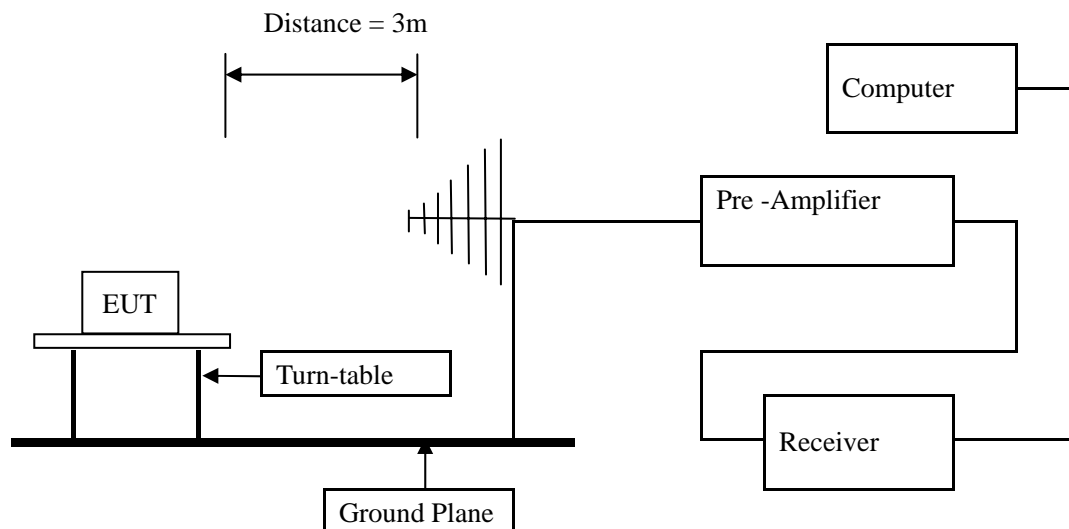


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT



**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping wireless network

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
117.300	35.58	H	43.50
124.575	37.65	H	43.50
134.275	35.92	H	43.50
236.125	36.86	H	46.00
907.850	40.97	H	46.00
54.250	34.70	V	40.00
114.875	37.58	V	43.50
124.575	37.51	V	43.50
168.225	35.94	V	43.50

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Test Figure:

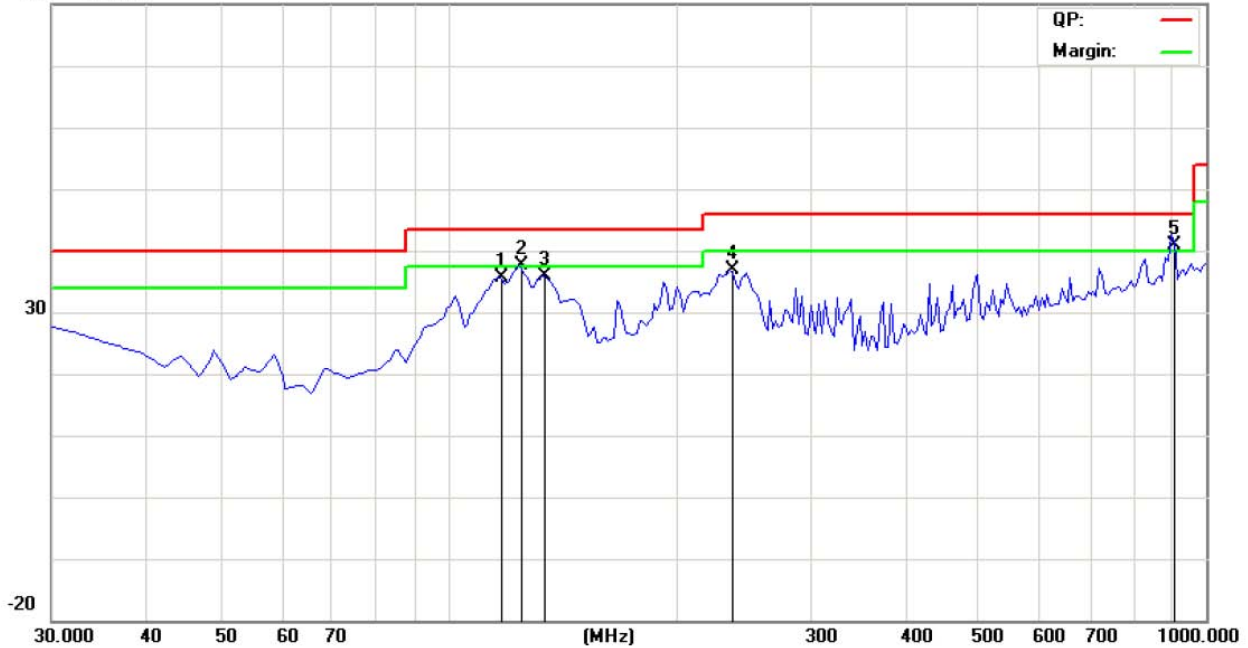
**Horizontal  
Radiated Emission Measurement**

File :PC-88002  
80.0 dBuV/m

Data :#4

Date: 08/06/17/

Time: 11/33/00



**Vertical**

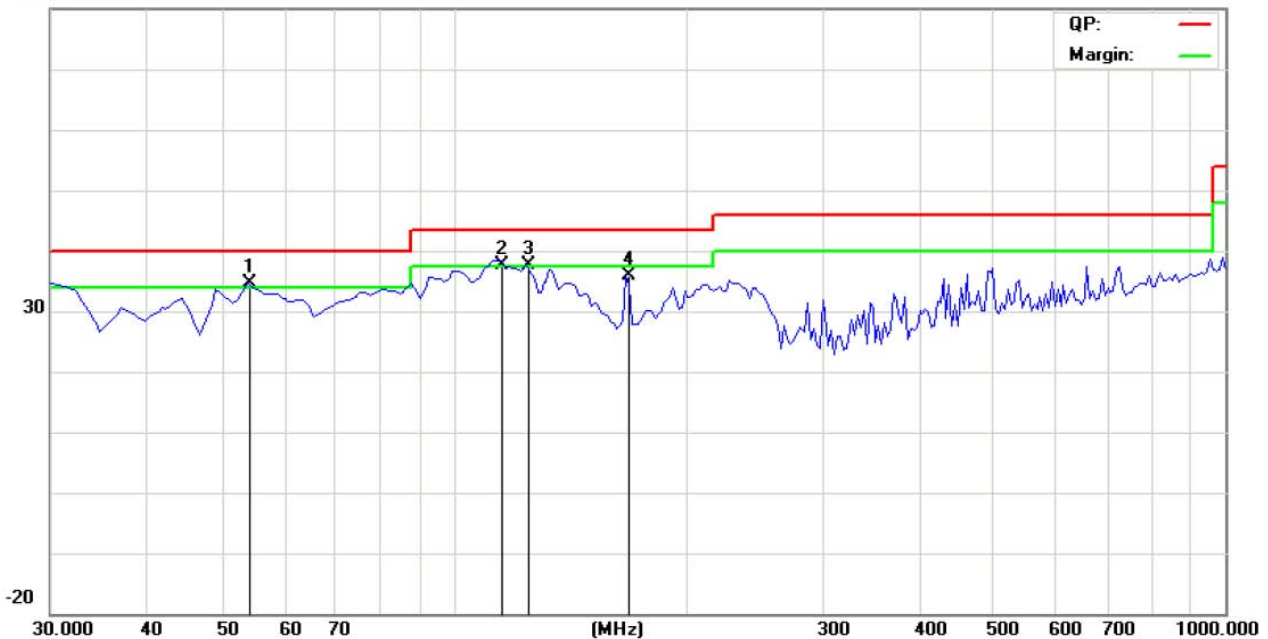
**Radiated Emission Measurement**

File :PC-88002  
80.0 dBuV/m

Data :#3

Date: 08/06/17/

Time: 11/29/54



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**EUT set Condition:** Running notebook test program and Ping network

**Results:** Pass

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
122.150	36.81	H	43.50
236.125	35.99	H	46.00
493.712	40.51	H	46.00
827.719	40.58	H	46.00
54.250	34.12	V	40.00
117.300	37.99	V	43.50
192.475	35.65	V	43.50
515.000	40.57	V	46.00

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Test Figure:

Horizontal

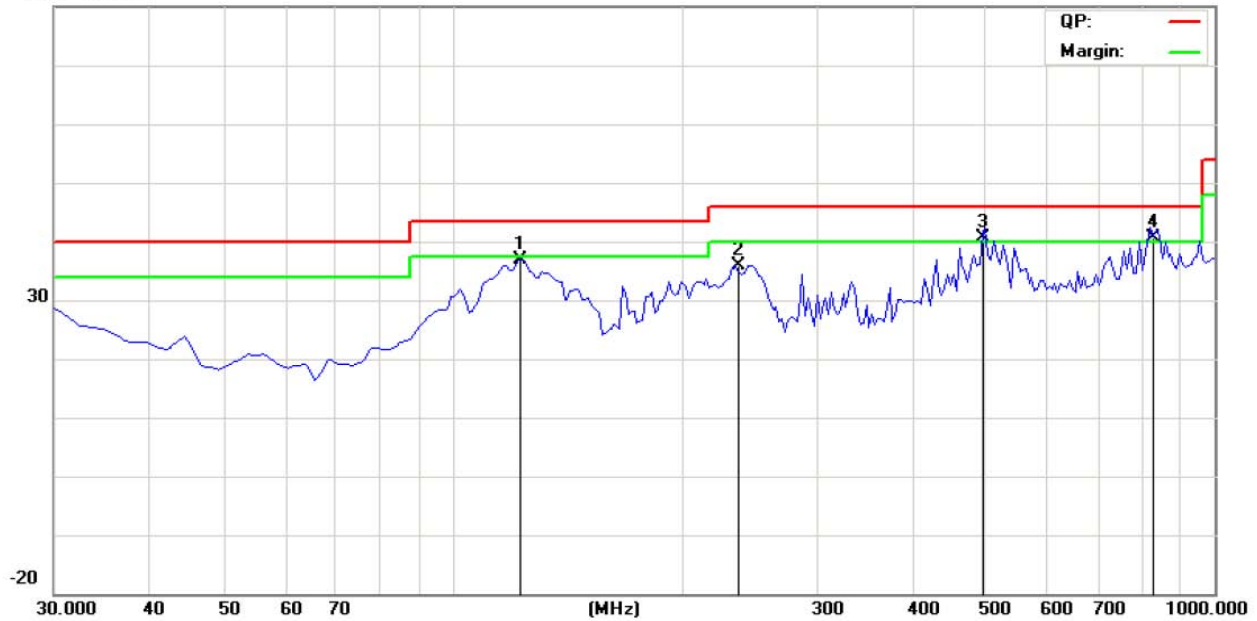
### Radiated Emission Measurement

File :PC-88002  
80.0 dBuV/m

Data :#1

Date: 08/06/17/

Time: 11/19/38



Vertical

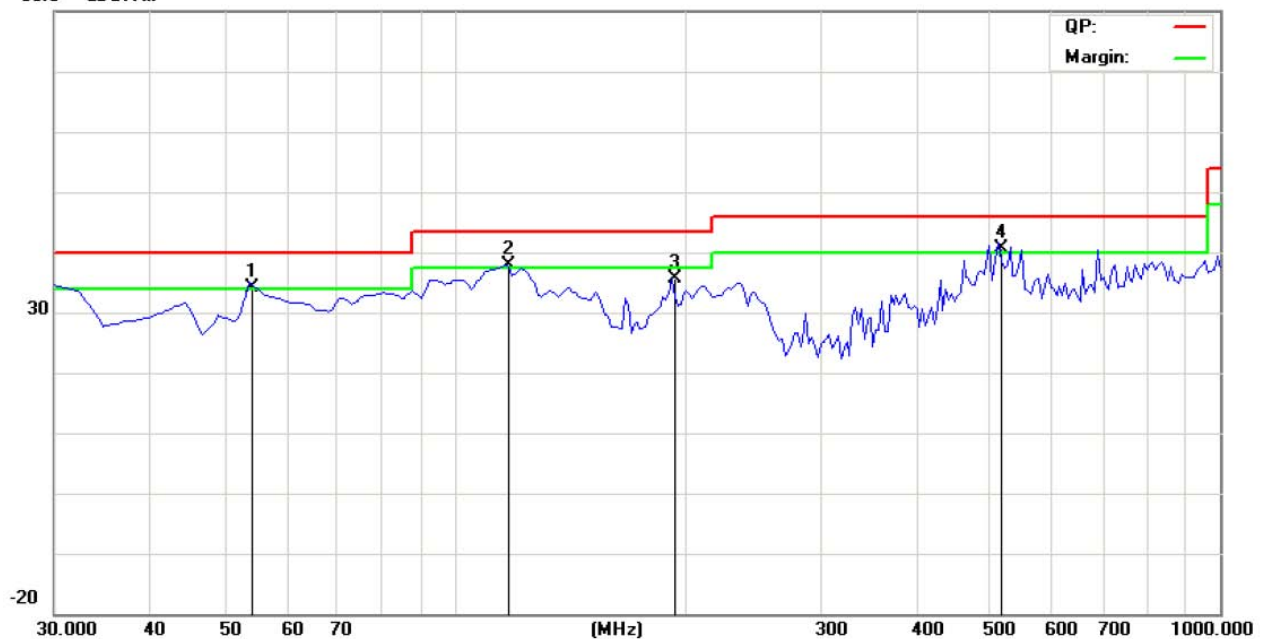
### Radiated Emission Measurement

File :PC-88002  
80.0 dBuV/m

Data :#2

Date: 08/06/17/

Time: 11/25/33



Note: Emission level (dBuV/m) = Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dBuV).

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**Operation Mode: Transmitting & Receiving under CH01 at 6Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	85.2(PK) /78.6 (AV)	V	Fundamental Frequency
2412.00	80.2(PK) /76.8 (AV)	H	
4824.00	--	H/V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11g mode 6Mbps  
4. Test results are for the worst case condition

**Operation Mode: Transmitting & Receiving under CH06 at 6Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	78.2 (PK) /74.2 (AV)	H	Fundamental Frequency
2437.00	84.4 (PK) /75.3 (AV)	V	
4874.00	--	H/V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11g mode 6Mbps  
4. Test results are for the worst case condition

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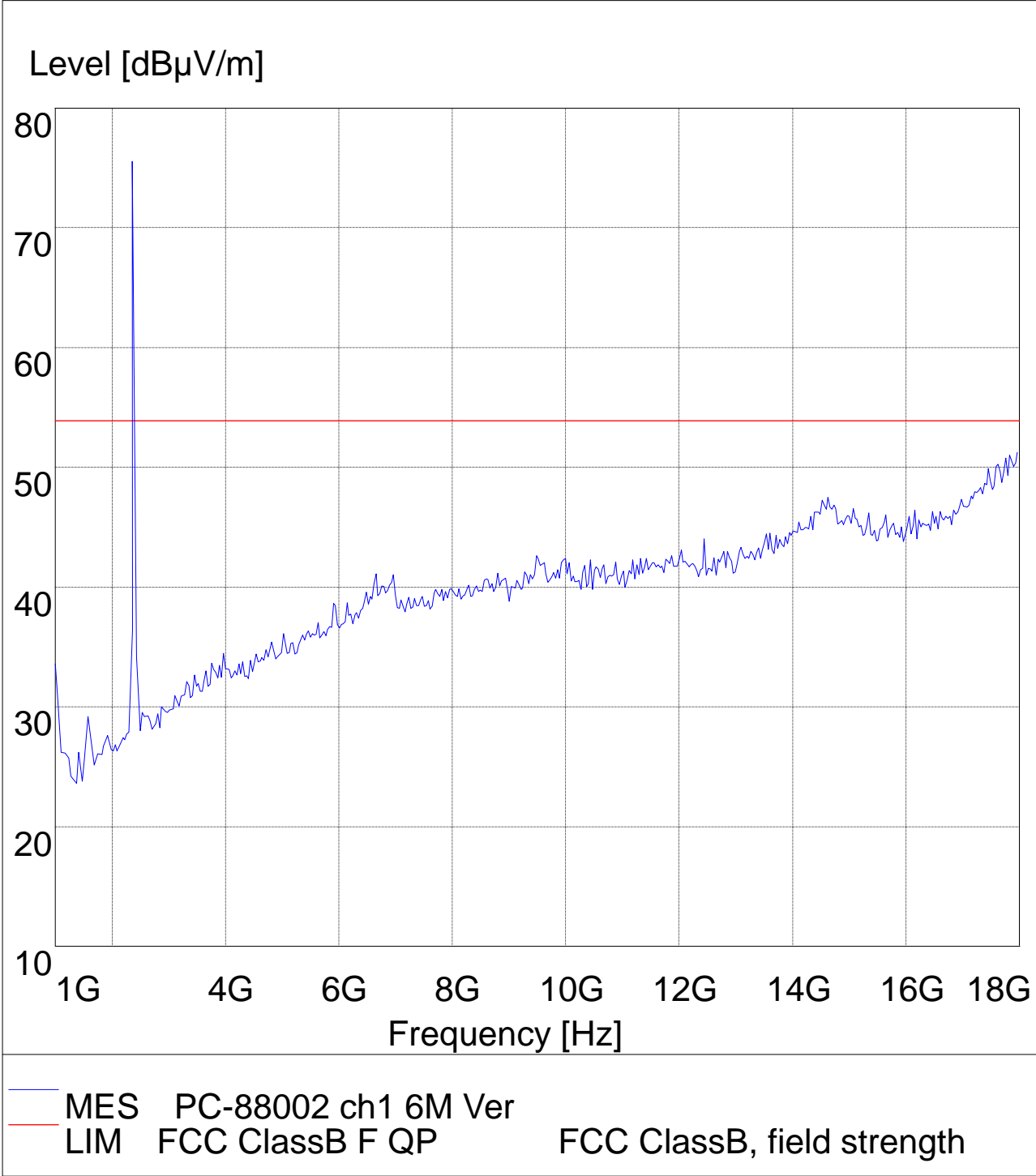
**Operation Mode: Transmitting & Receiving under CH11 at 6Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	83.7 (PK) /76.2 (AV)	V	Fundamental Frequency
2462.00	76.9 (PK) /70.5 (AV)	H	
4824	--	H/V	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11g mode at 6Mbps  
4. Test results are for the worst case condition



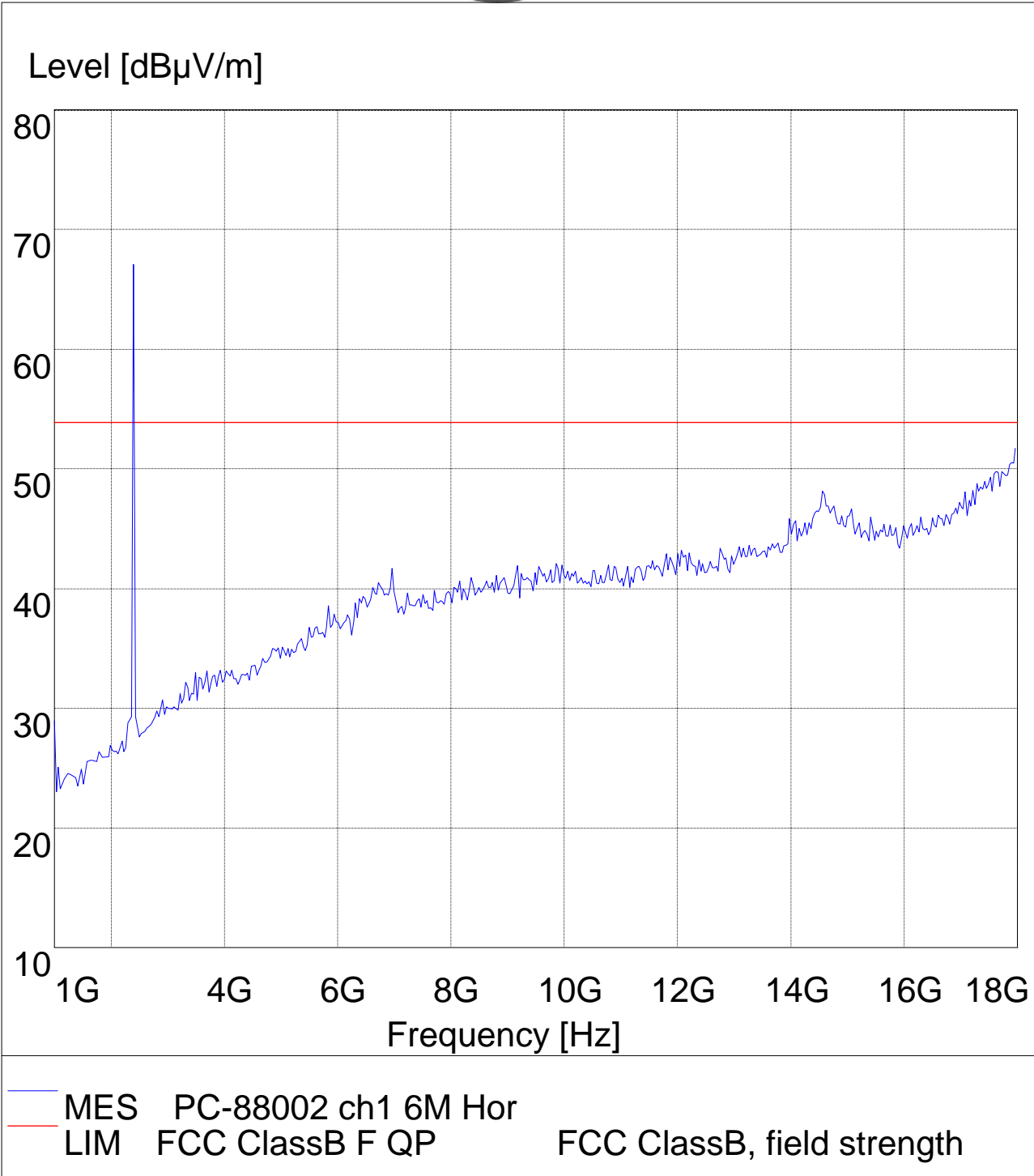
Please refer to the following test plots for details:  
**CH01 at 6Mbps: Vertical**



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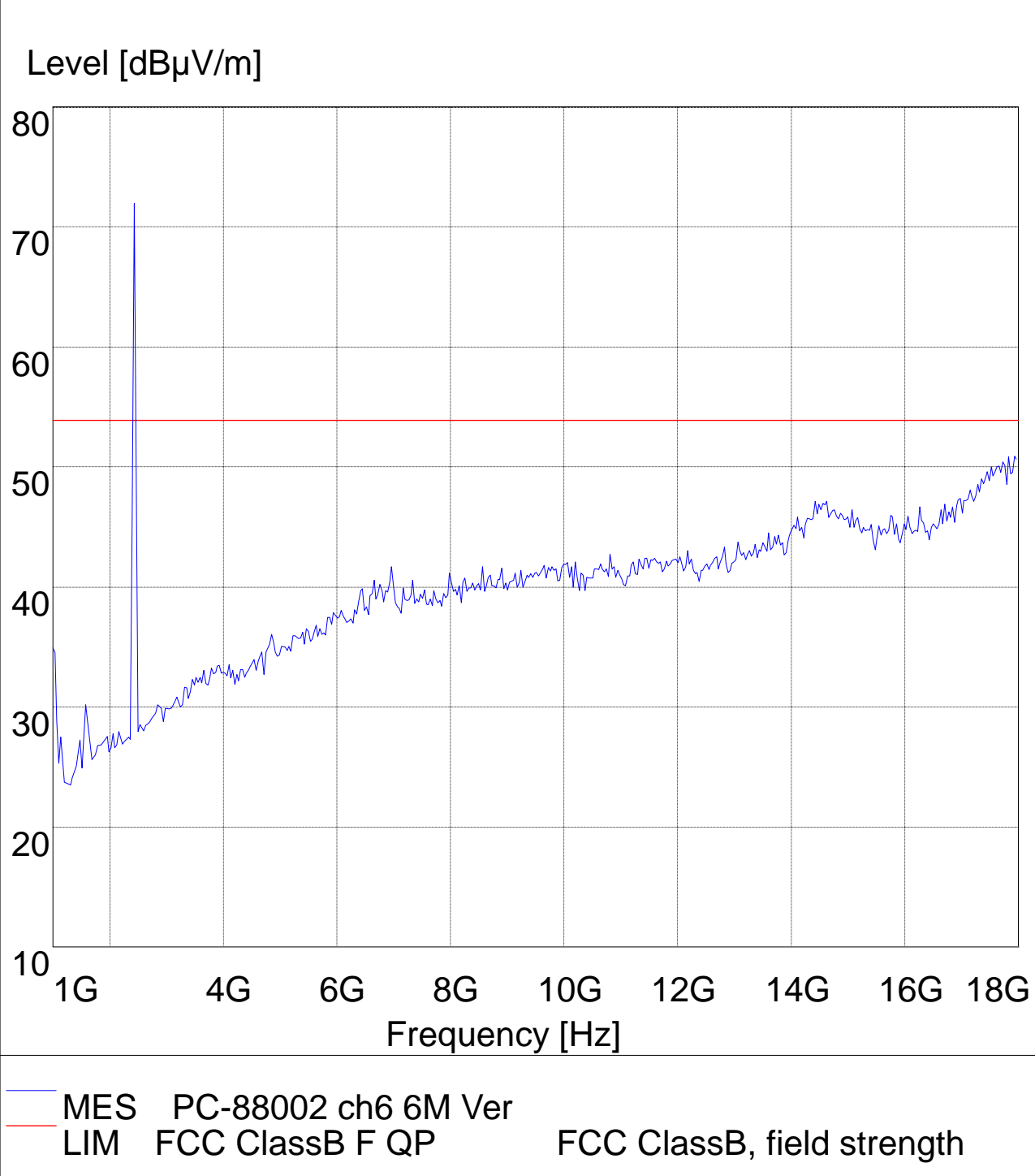
CH01 at 6Mbps: Horizontal



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CH06 at 6Mbps: Vertical

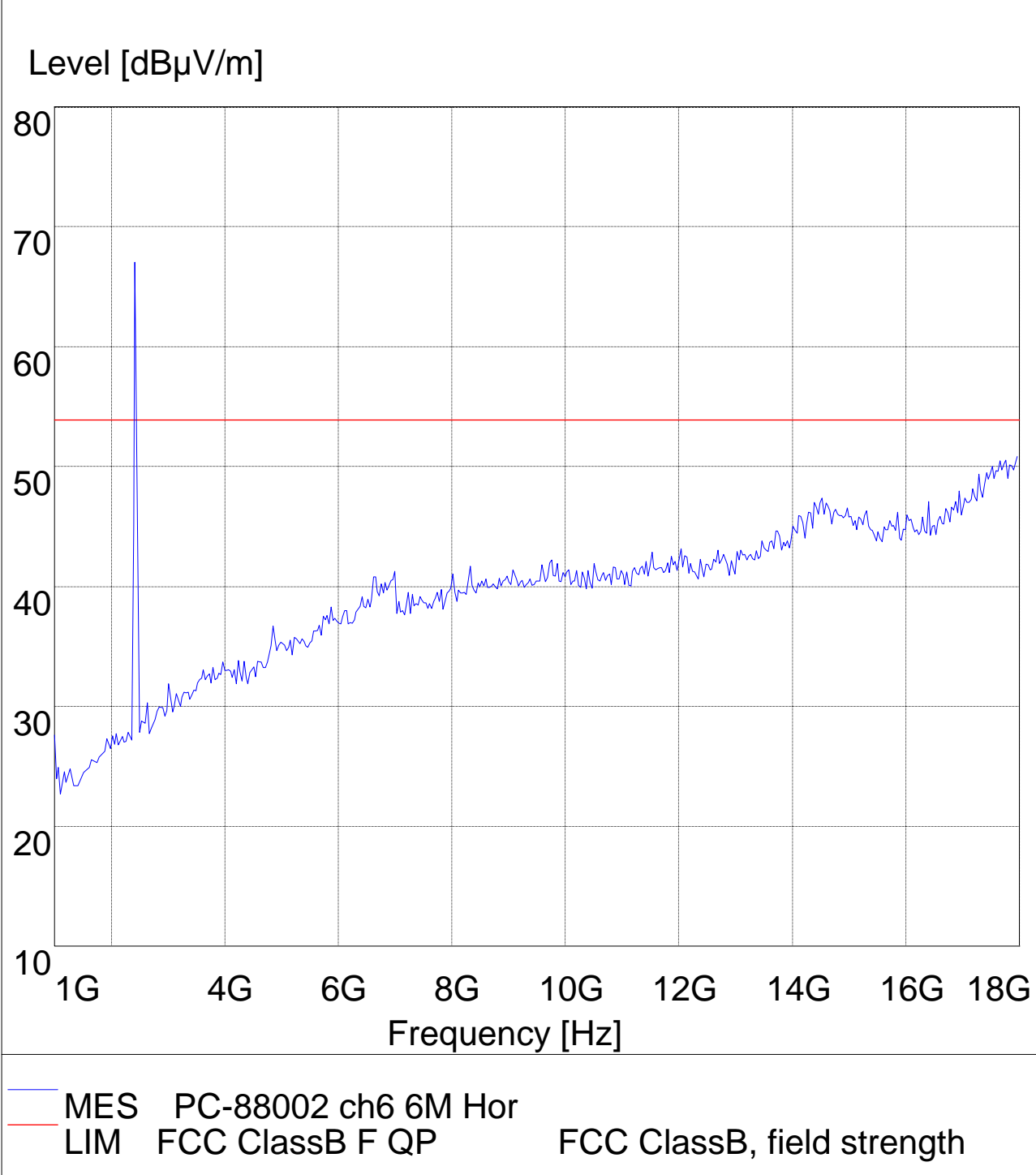


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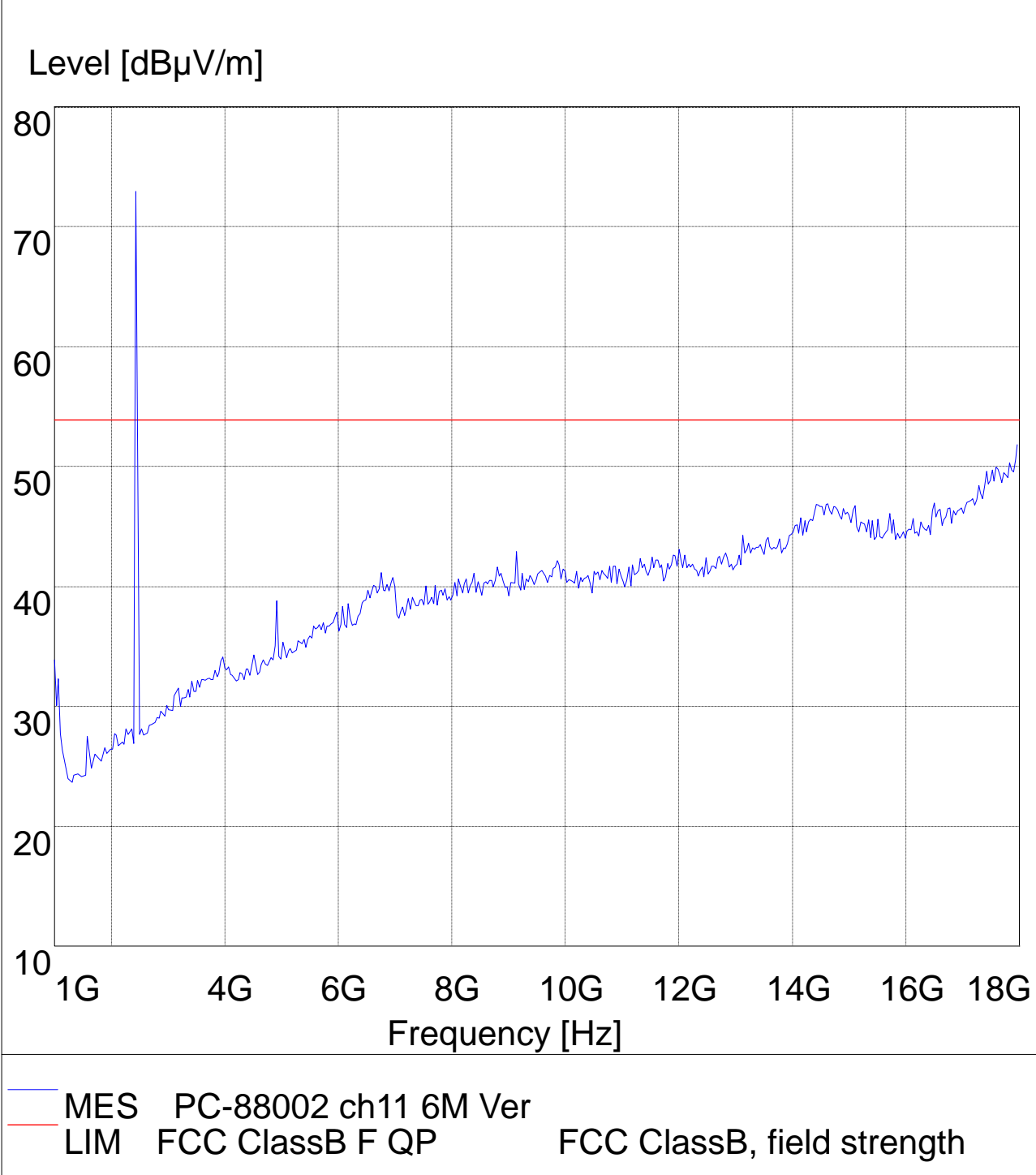
CH06 at 6Mbps: Horizontal



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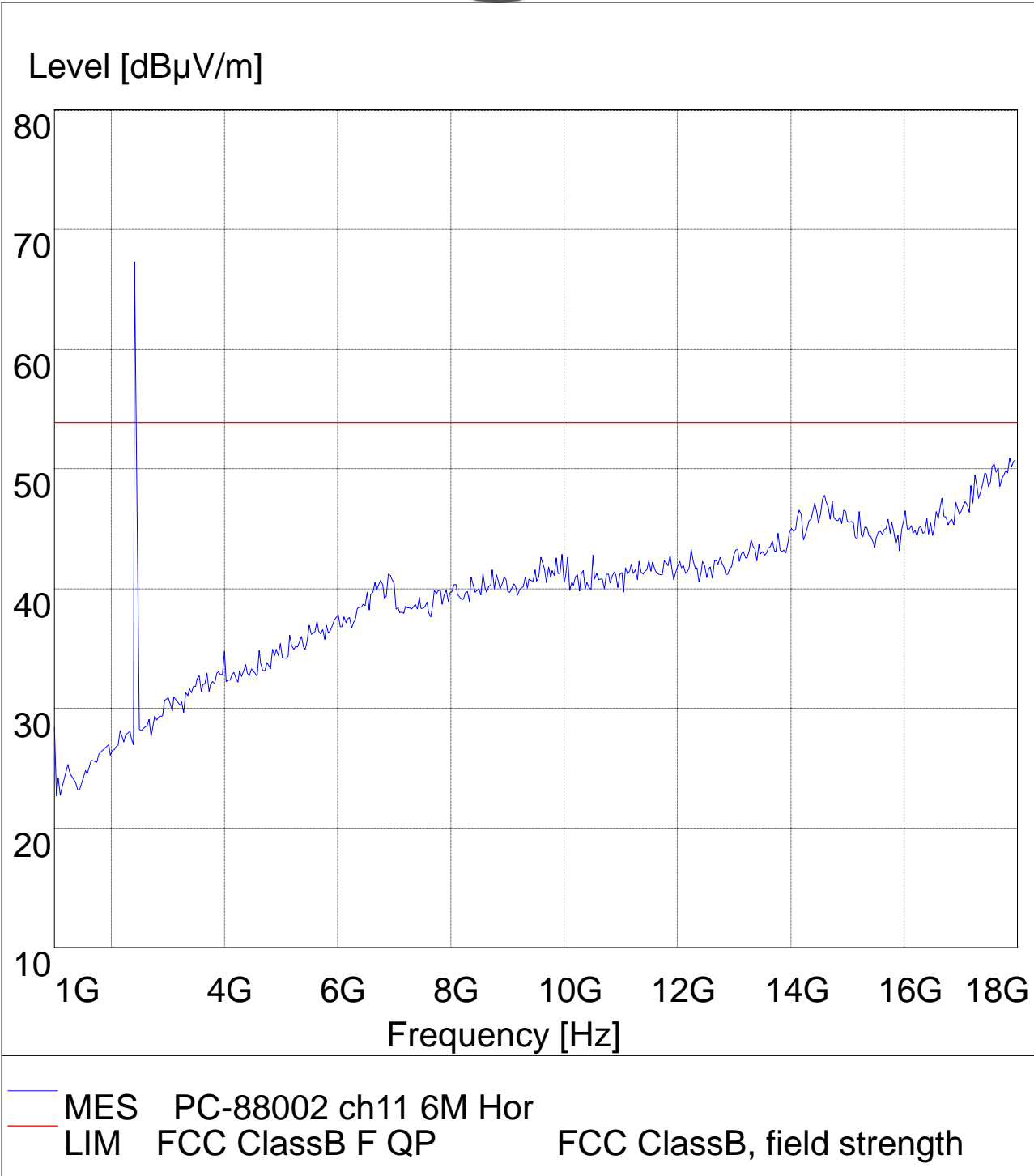
CH11 at 6Mbps: Vertical



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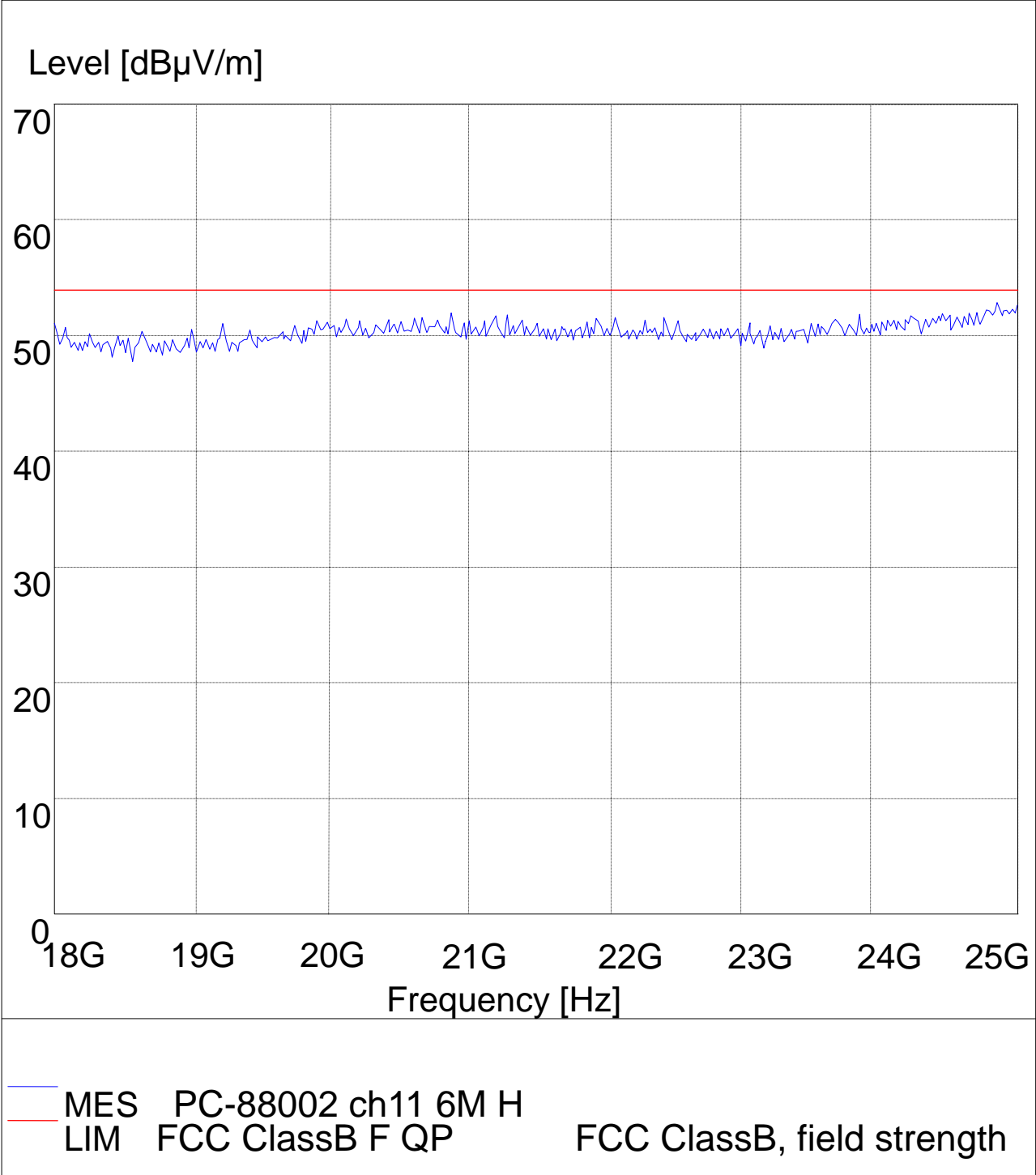
CH11at 6Mbps: Horizontal



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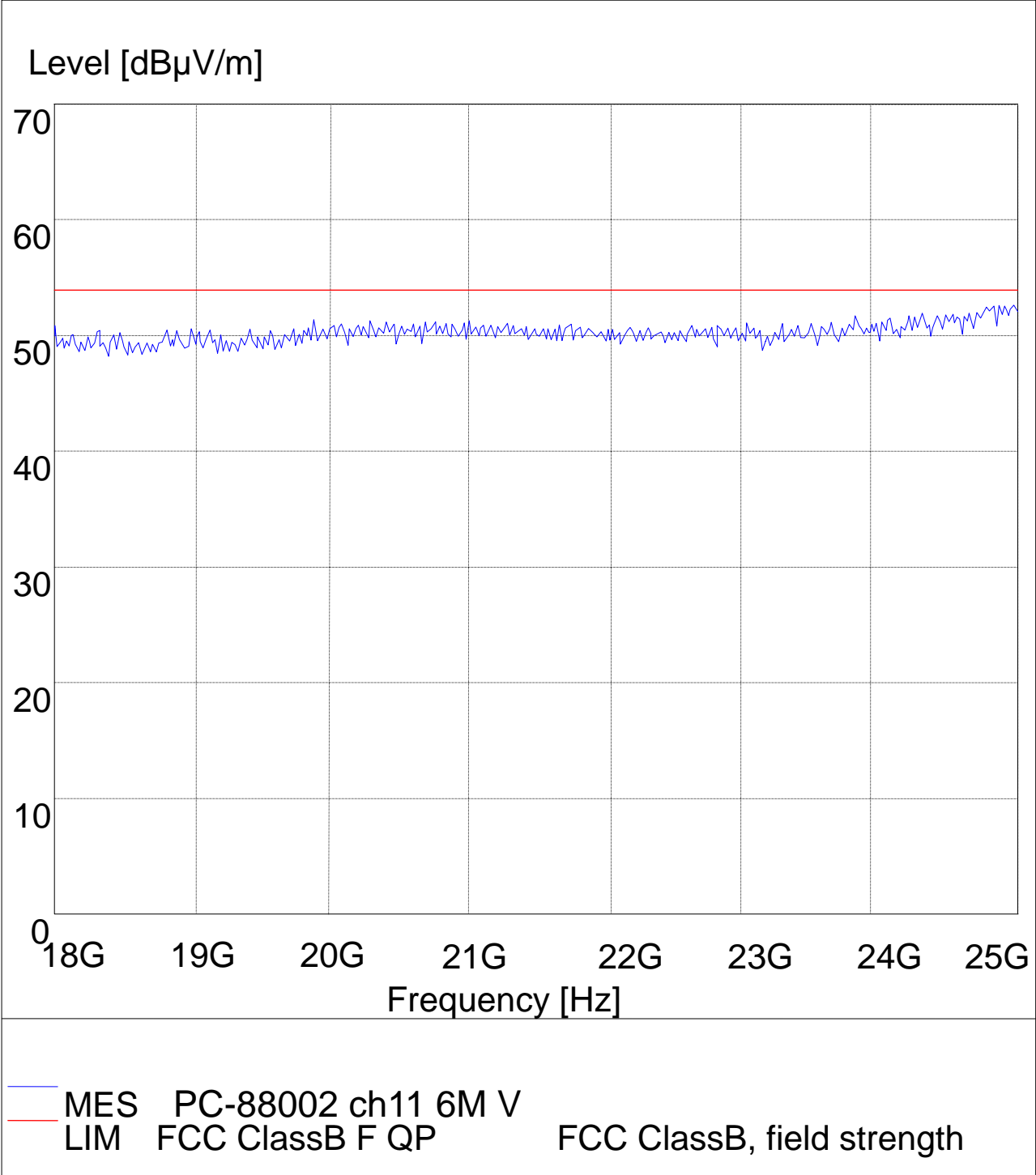
18-25G  
CH11 6M Horizontal



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18-25G  
CH11 6M Vertical



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**Operation Mode: Transmitting & Receiving under CH01 at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	83.0 (PK)/ 76.1(AV)	V	Fundamental Frequency
2412.00	80.7 (PK)/74.8 (AV)	H	
4824.00	--	H/V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11b mode 11Mbps  
4. Test results are for the worst case condition

**Operation Mode: Transmitting & Receiving under CH06 at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	82.8(PK)/ 75.4AV )	V	Fundamental Frequency
2437.00	78.7(PK)/73.6 (AV)	H	
4874.00	--	H/V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11b mode 11Mbps  
4. test results are for the worst case condition

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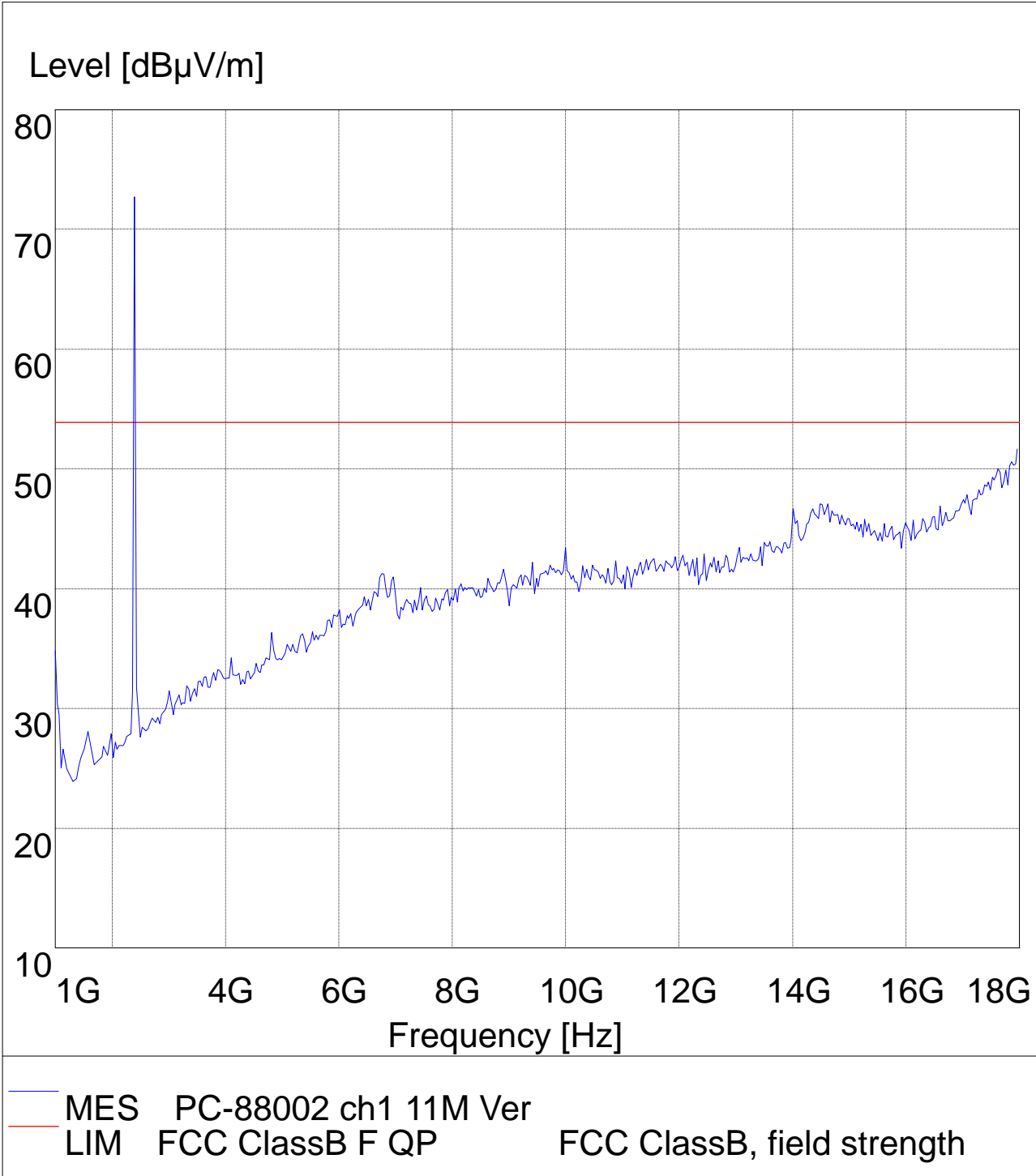
**Operation Mode: Transmitting & Receiving under CH11 at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	82.6 (PK) /73.6(AV)	V	Fundamental Frequency
2462.00	76.5 (PK) /70.8 (AV)	H	
4924	--	H/V	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11b mode at 11Mbps  
4. Test results are for the worst case condition



Please refer to the following test plots for details:  
**CH01 at 11Mbps: Vertical**

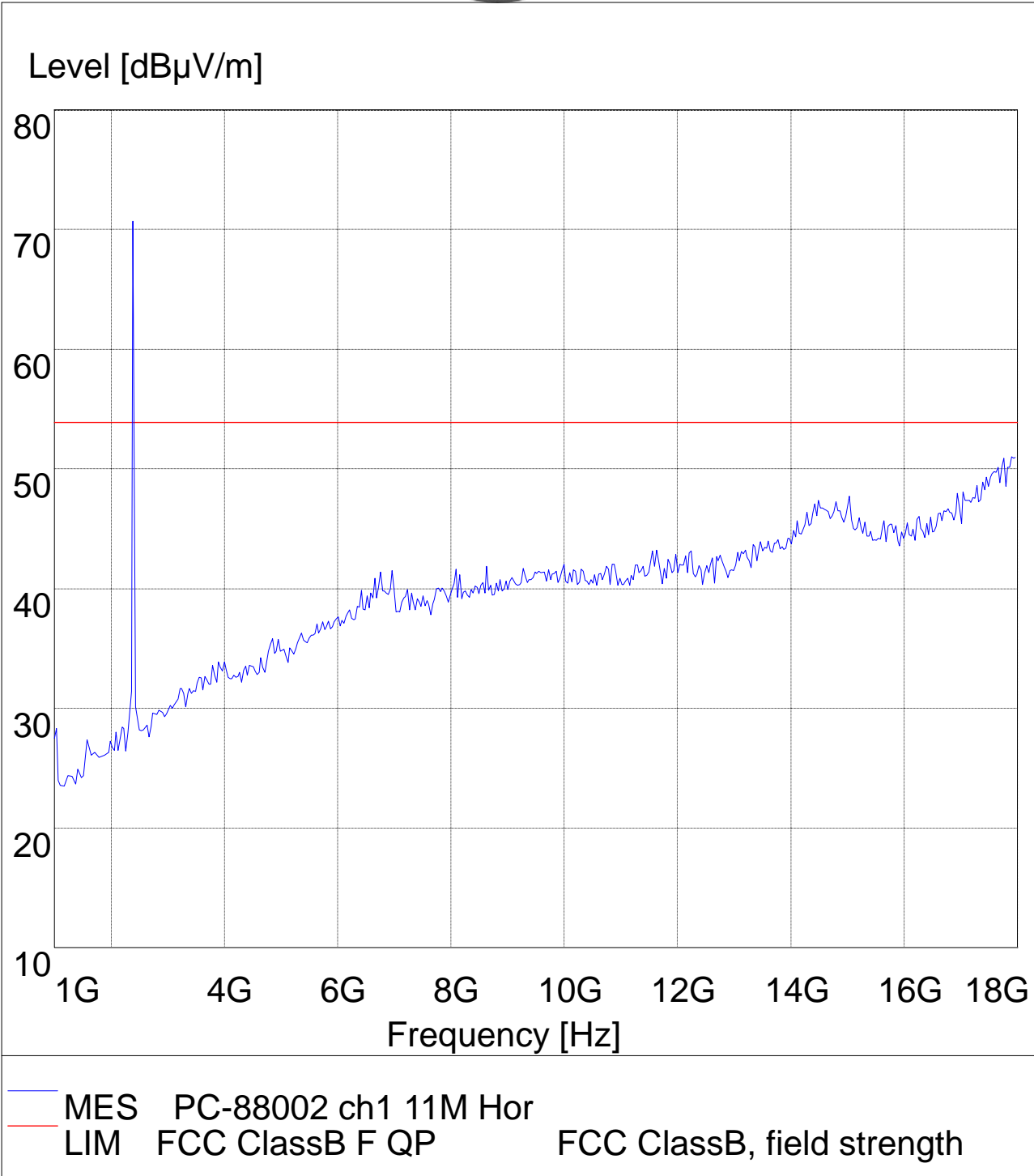


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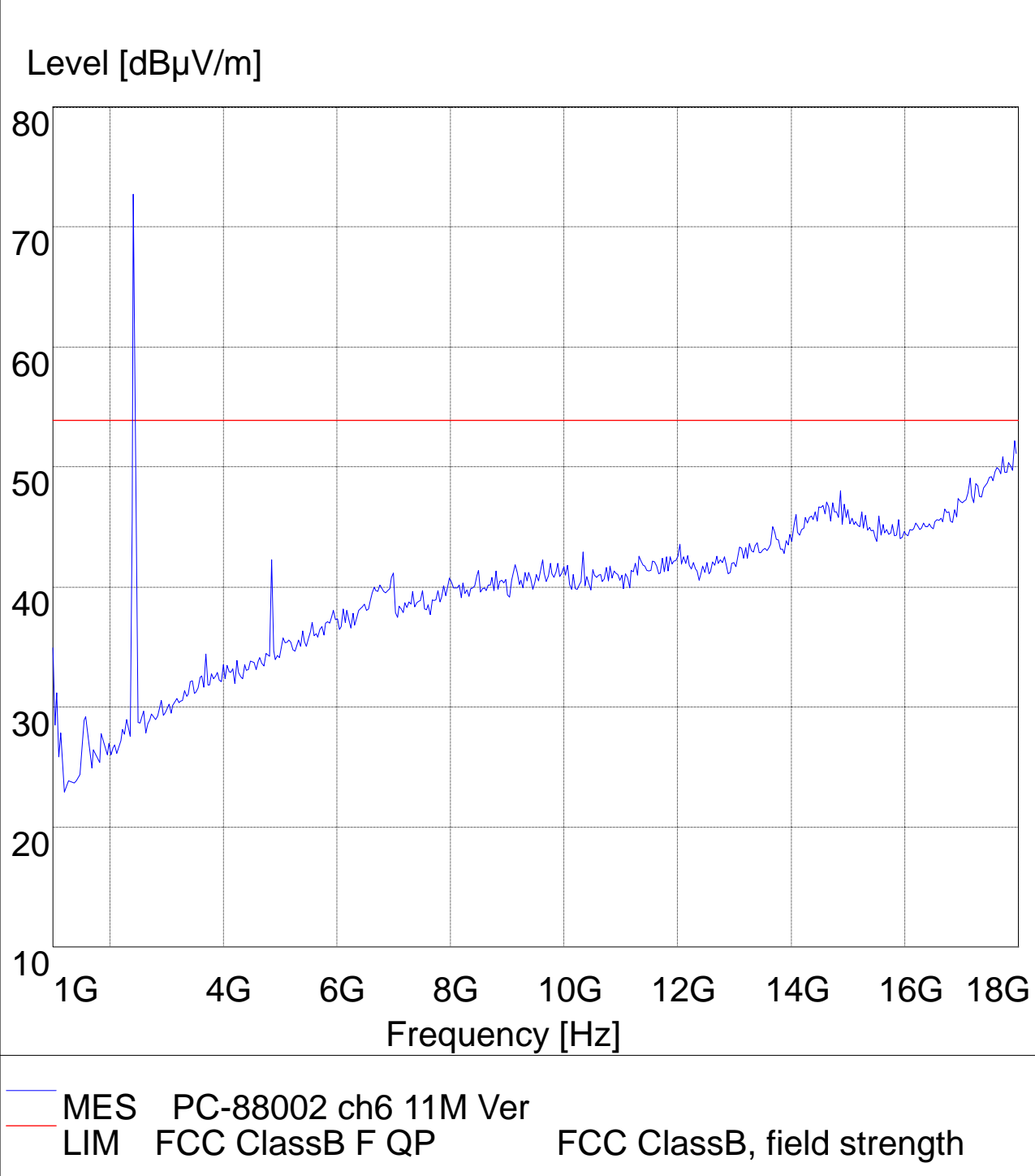
CH01 at 11Mbps: Horizontal



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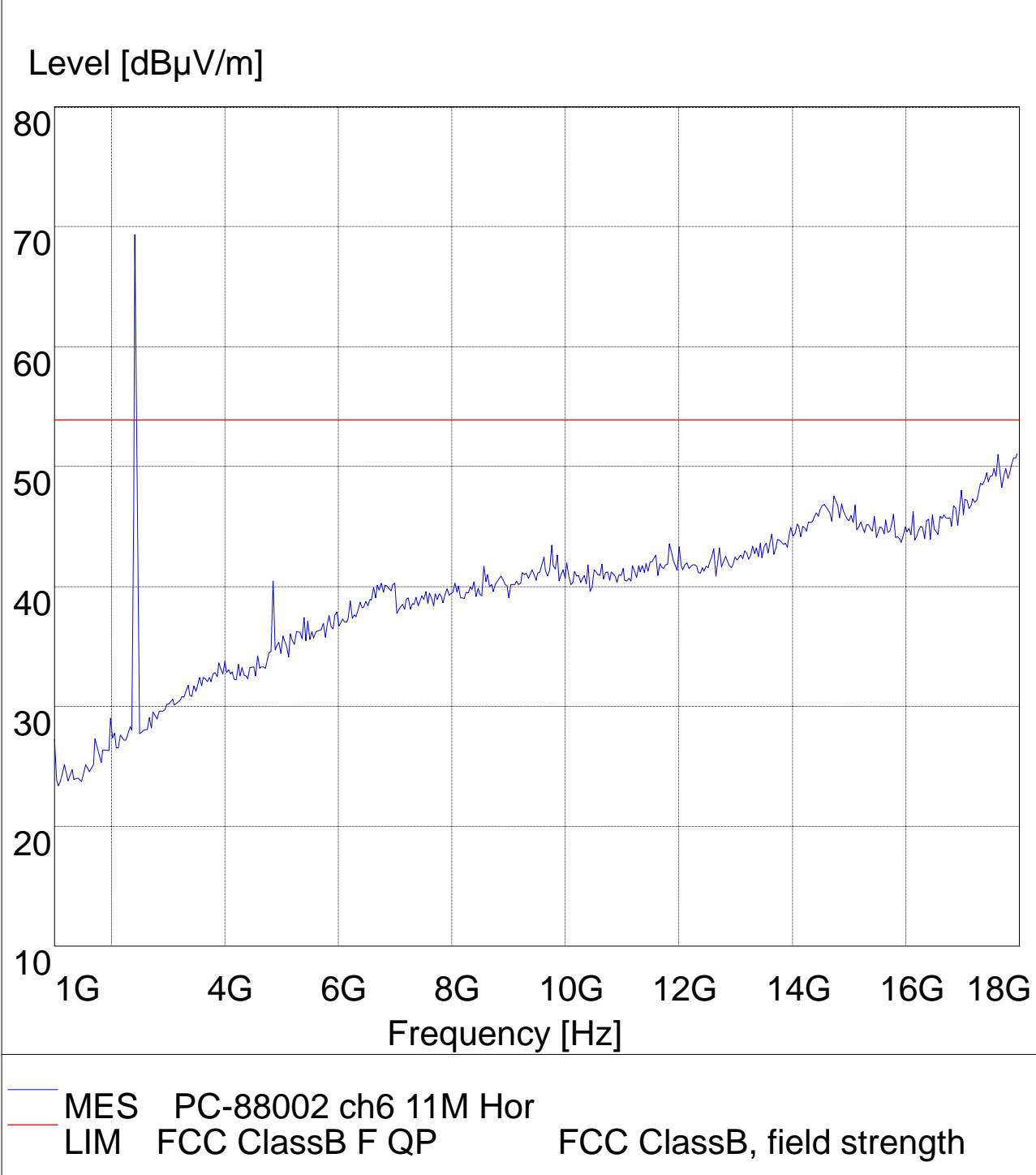
CH06 at 11Mbps: Vertical



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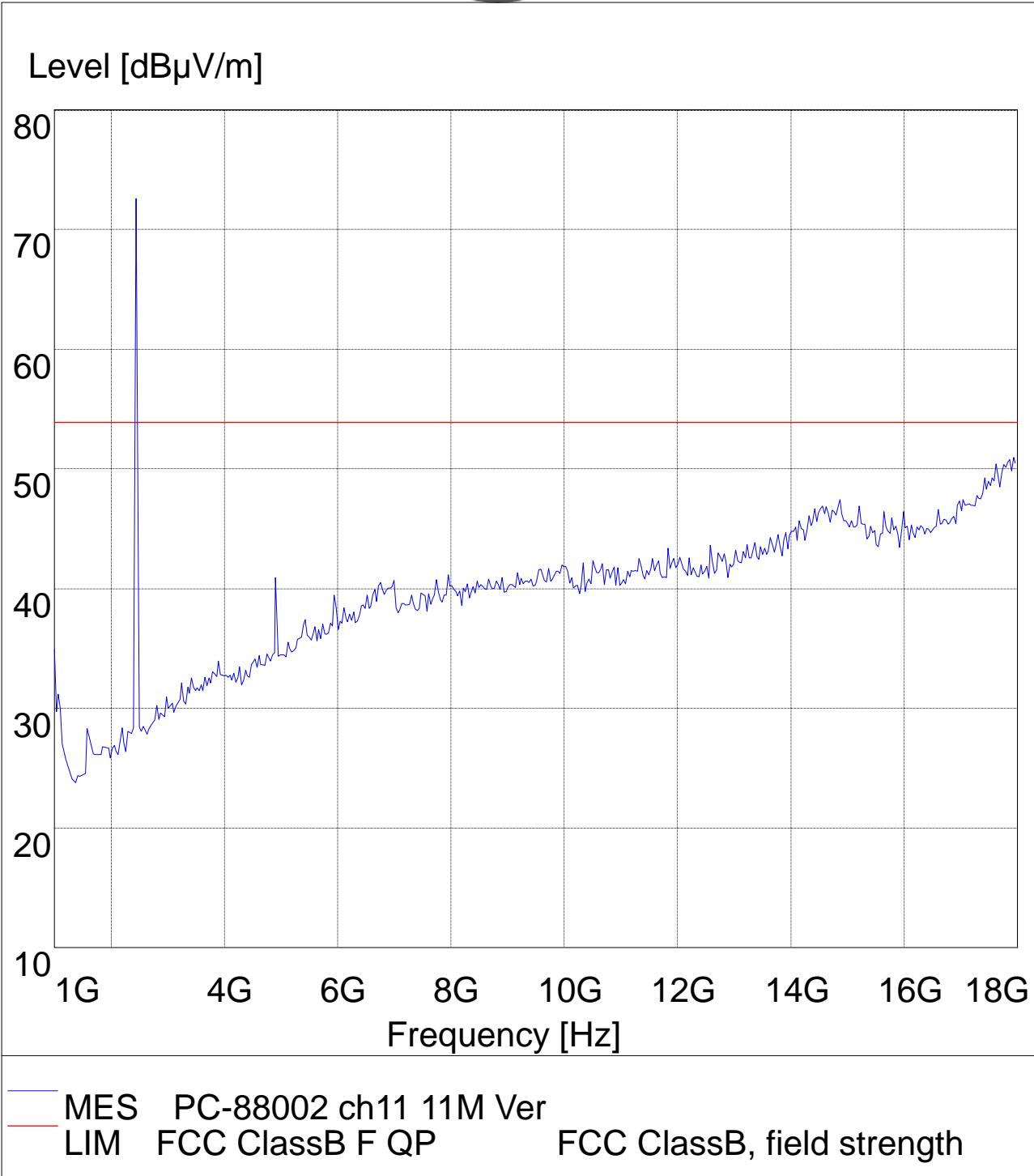
CH06 at 11Mbps: Horizontal



The report refers only to the sample tested and does not apply to the bulk.  
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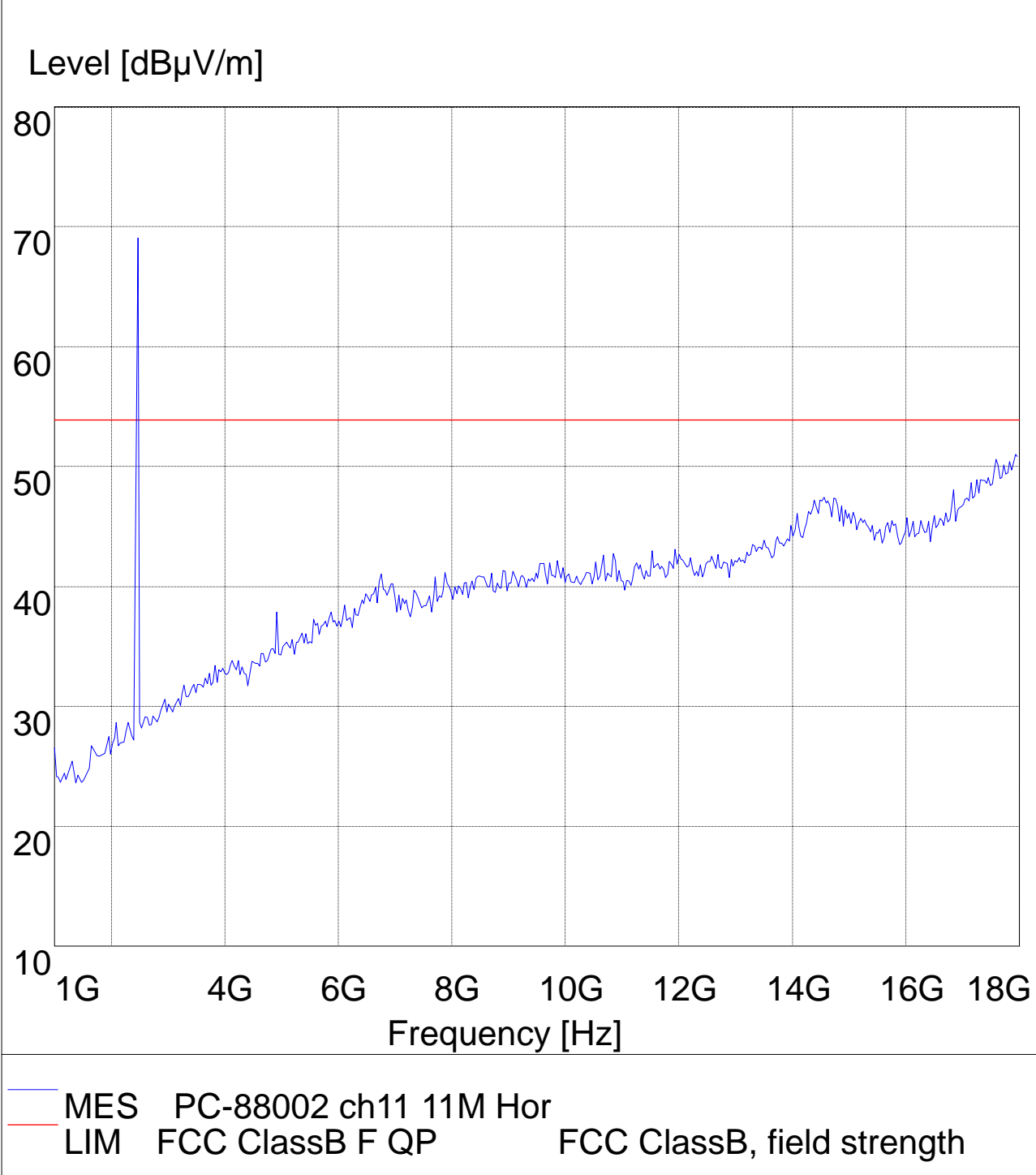
CH11 at 11Mbps: Vertical



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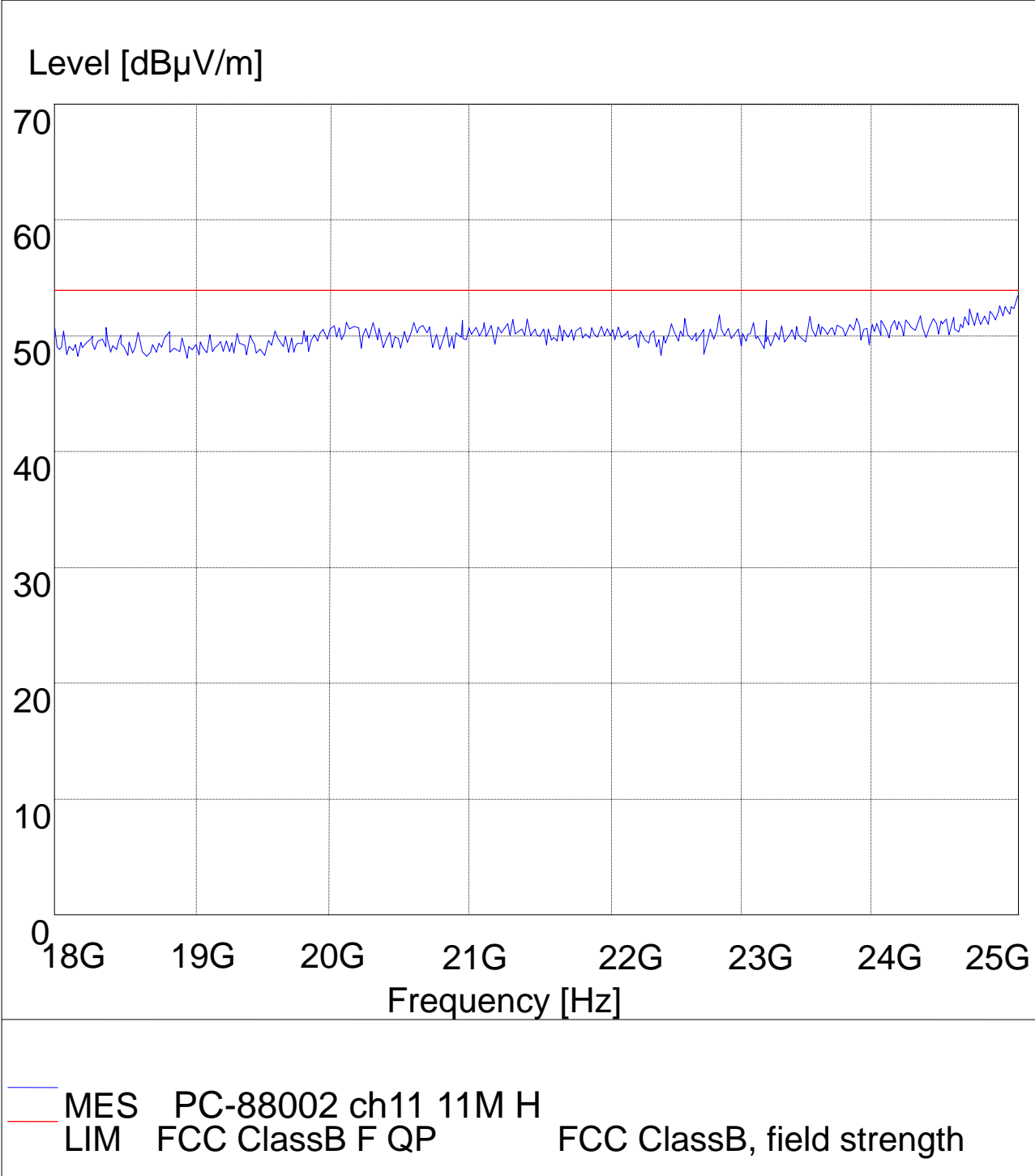
CH11 at 11Mbps: Horizontal



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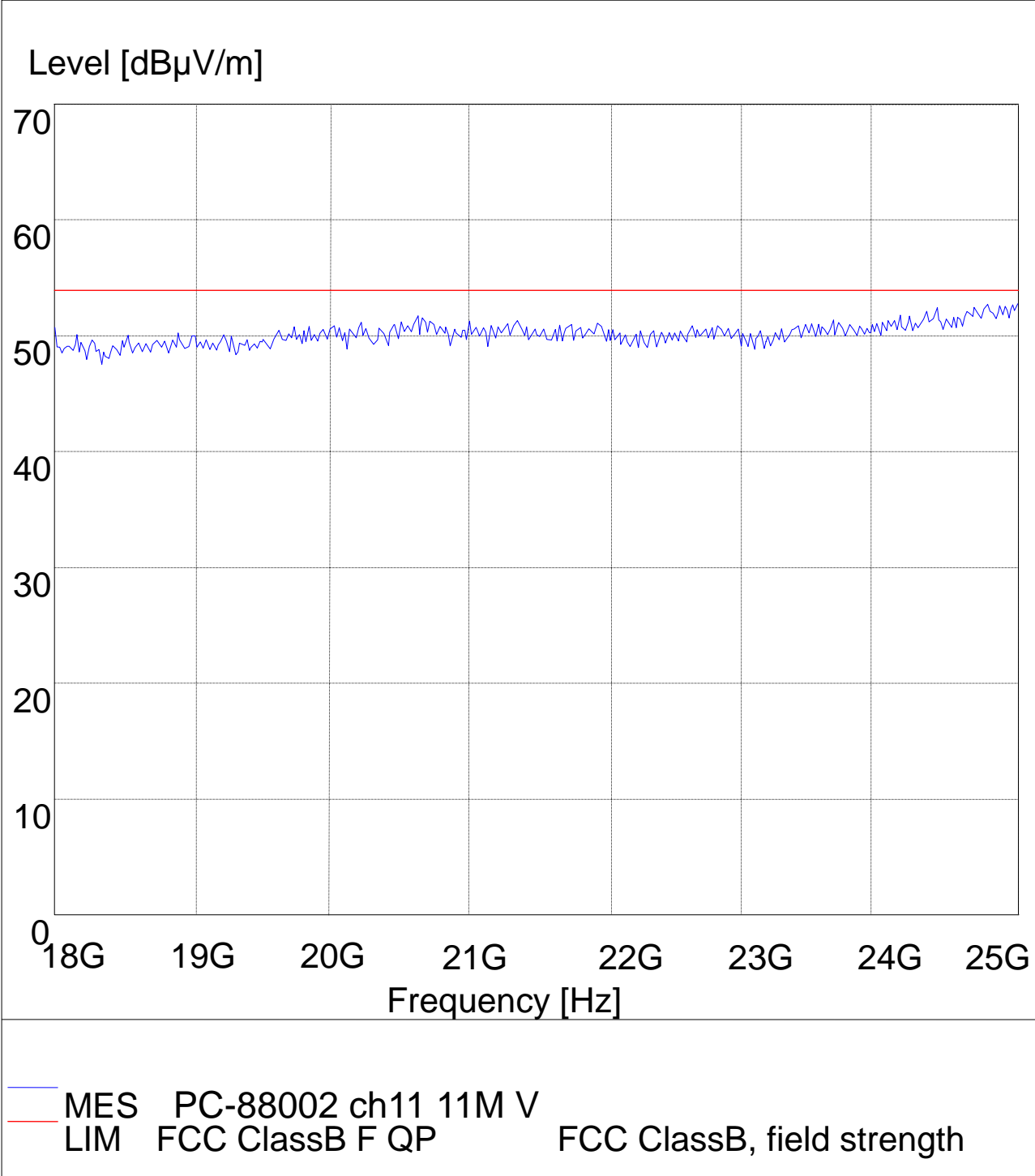
18-25G  
CH11 11M Horizontal



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18-25G  
CH11 11M Vertical

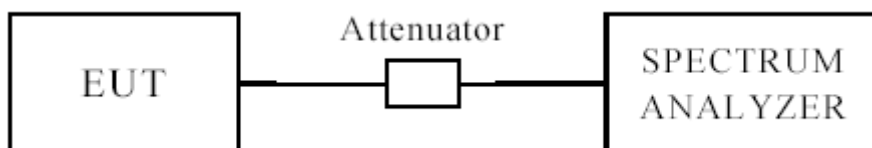


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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500KHz

### 7.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator.

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.

### 7.4 Test Result

EUT		Notebook			Model		PC-88002	
Mode		802.11b			Input Voltage		120V~	
Temperature		24 deg. C,			Humidity		56% RH	
Channel	Channel Frequency (MHz)		Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail
1	2412	1	10.10		0.5			Pass
		11	10.74					
6	2437	1	10.10		0.5			Pass
		11	10.06					
11	2462	1	10.10		0.5			Pass
		11	10.54					

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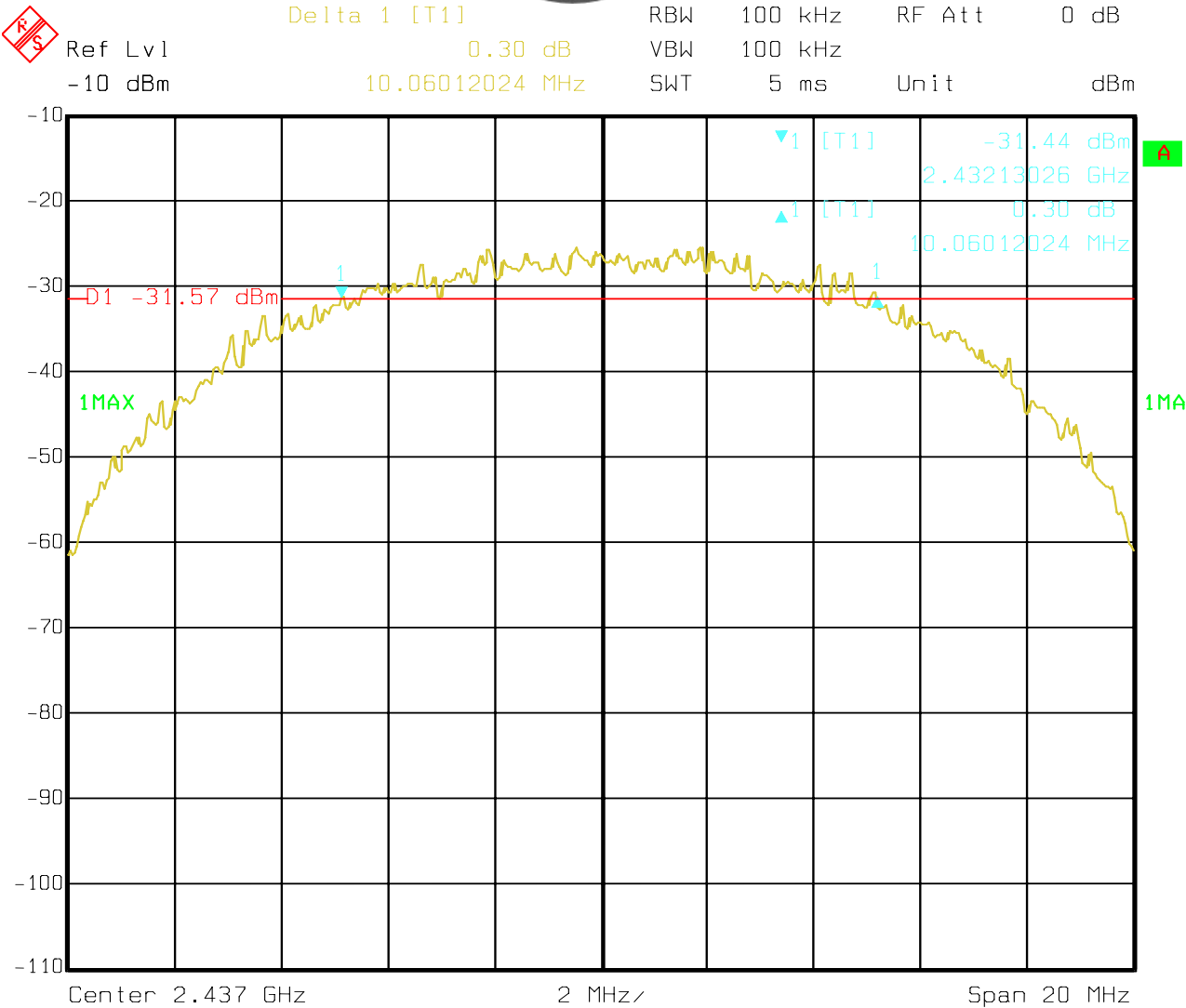
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2. Condition: 802.11b at 11Mbps of CH06

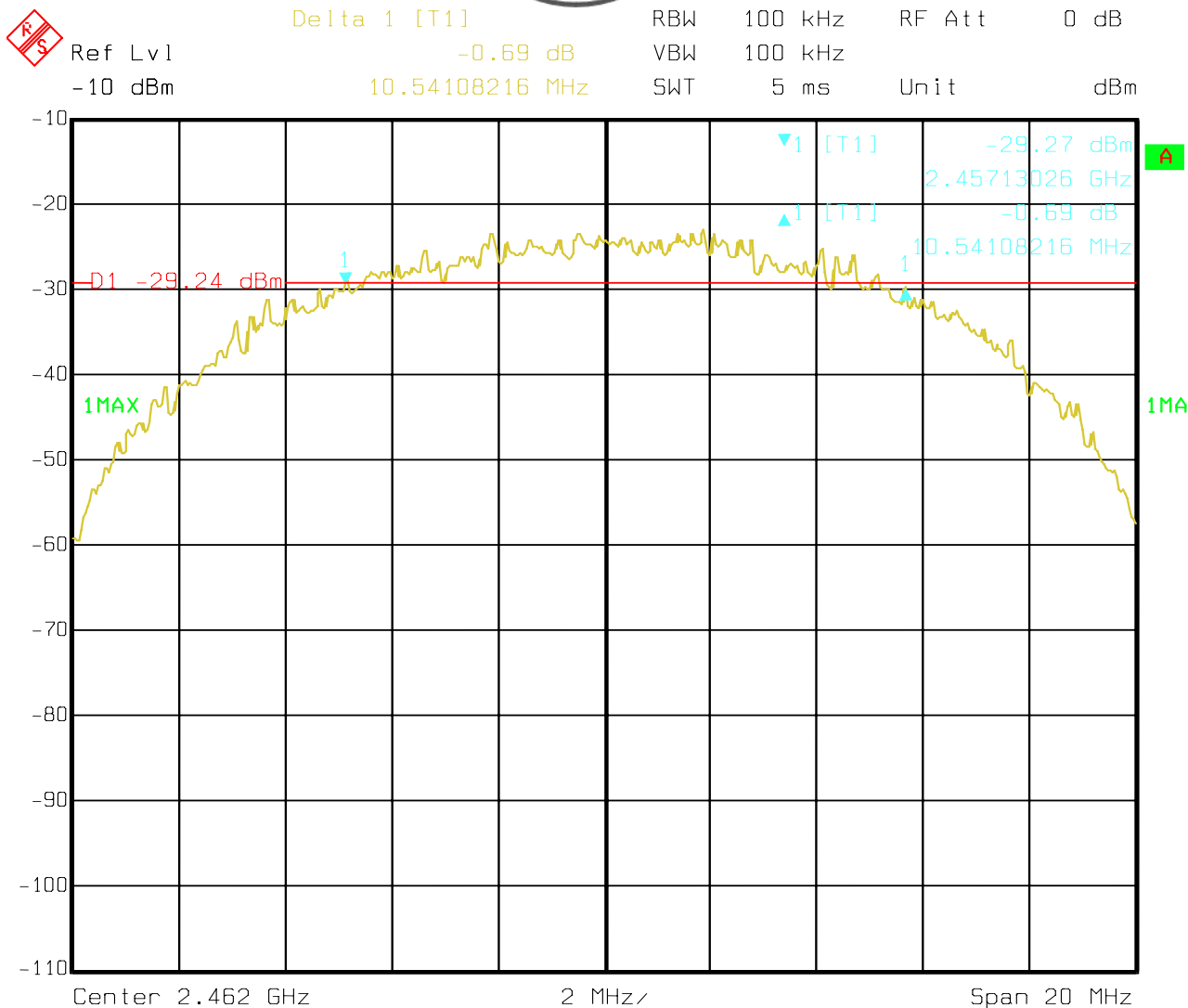


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### 3. 802.11b at 11Mbps of CH11



Date: 17.JUN.2008 16:11:45

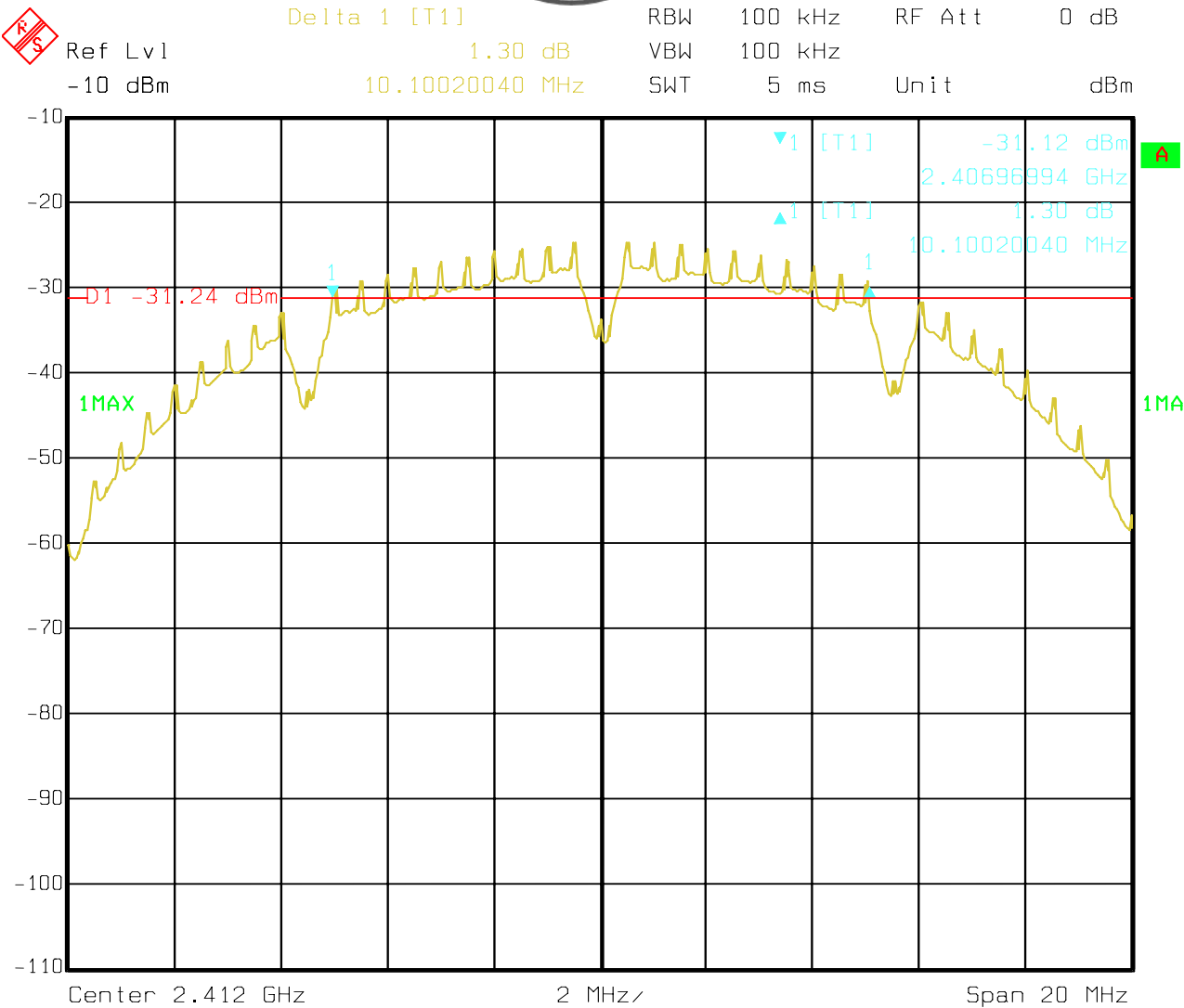
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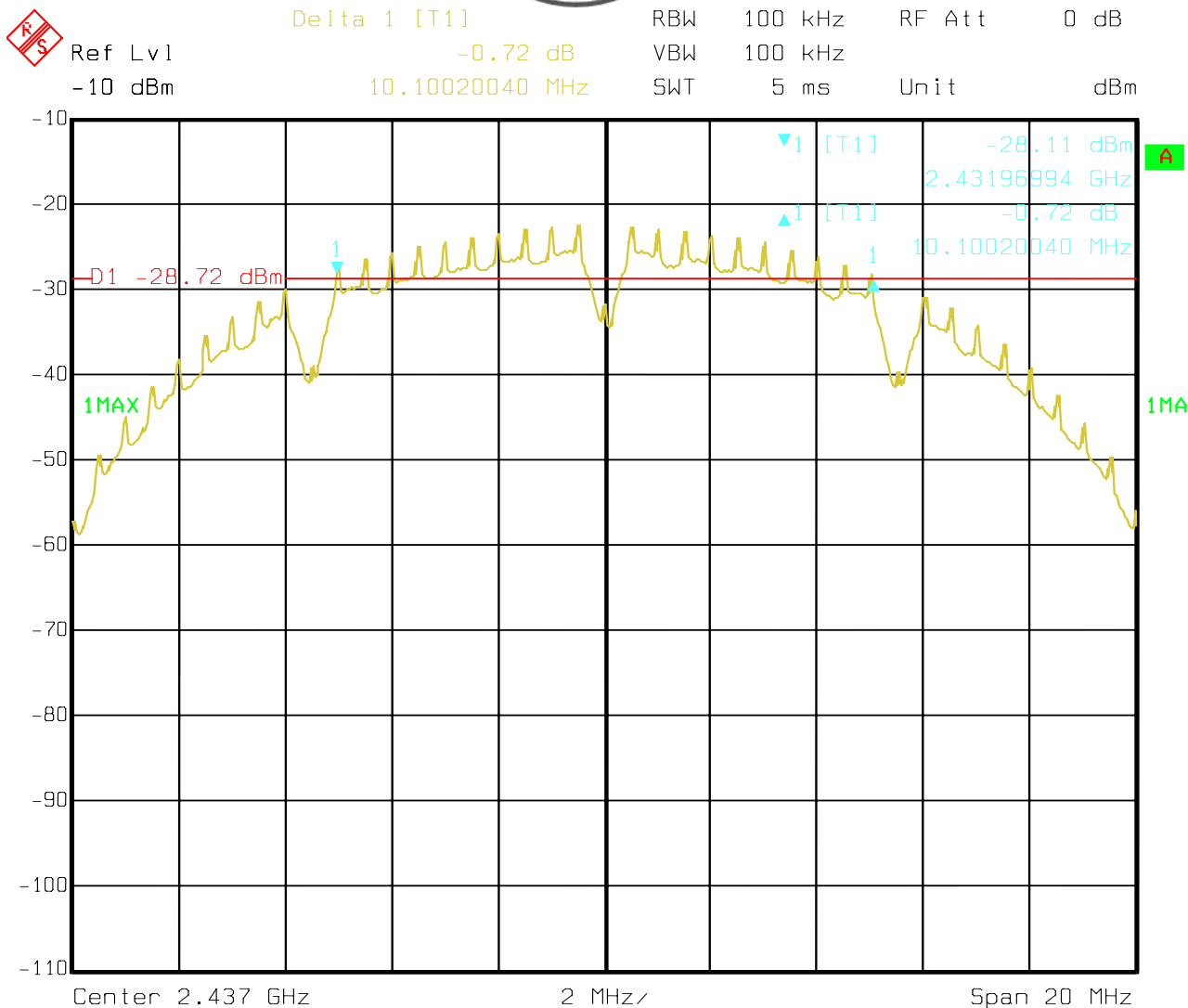
4. 802.11b at 1Mbps of CH01



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## 5. 802.11b at 1Mbps of CH06



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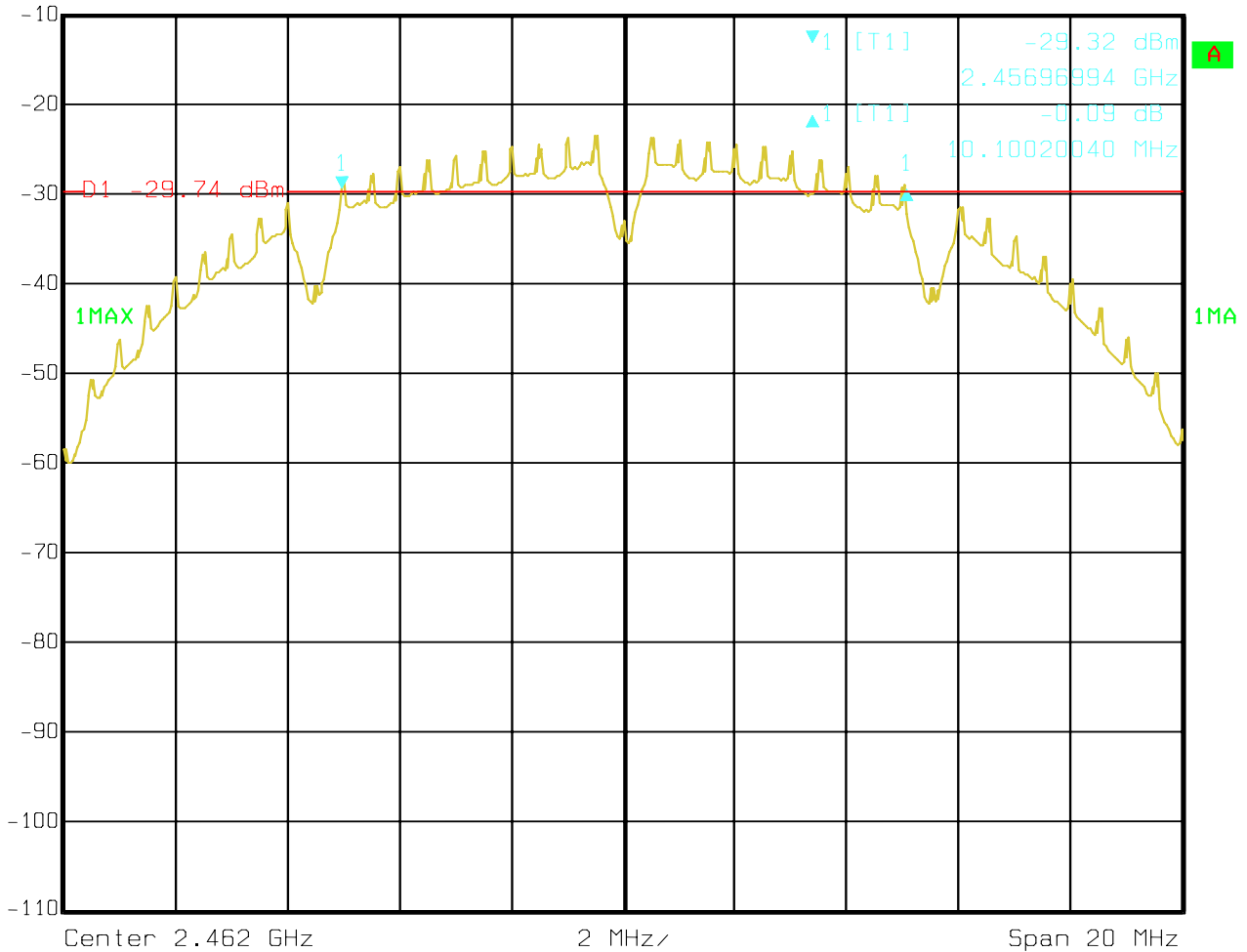
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## 6. 802.11b at 1Mbps of CH11



Ref Lvl -10 dBm  
Delta 1 [T1] -0.09 dB  
10.10020040 MHz  
RBW 100 kHz  
VBW 100 kHz  
SWT 5 ms  
RF Att 0 dB  
Unit dBm



Date: 17.JUN.2008 15:43:03

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EUT	Notebook		Model	PC-88002	
Mode	802.11g		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/Fail
1	2412	6	16.55	0.5	Pass
		54	16.55		
6	2437	6	16.59	0.5	Pass
		54	19.55		
11	2462	6	16.63	0.5	Pass
		54	16.59		

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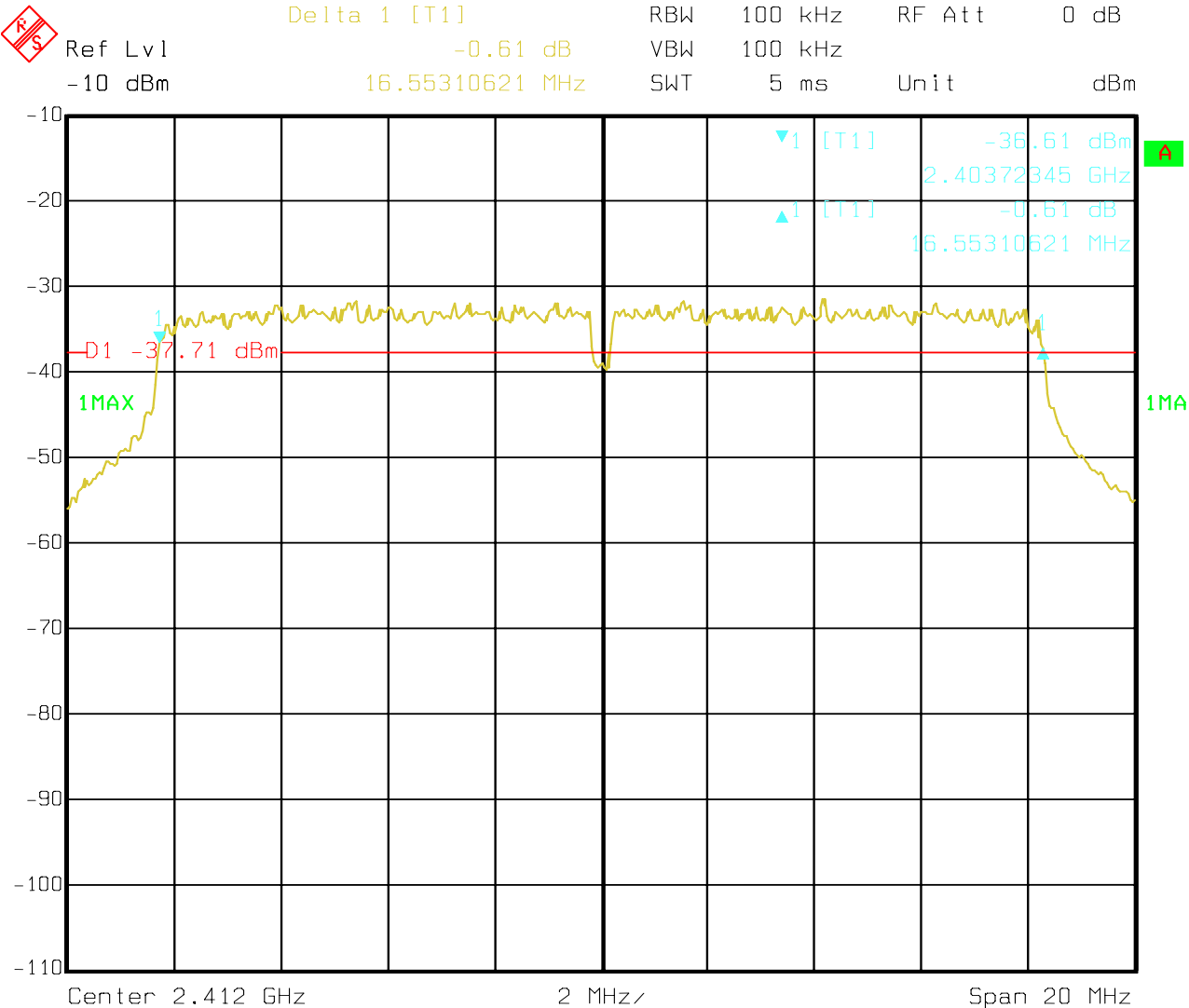
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Test Plots:

1. 802.11g at 6Mbps of CH01



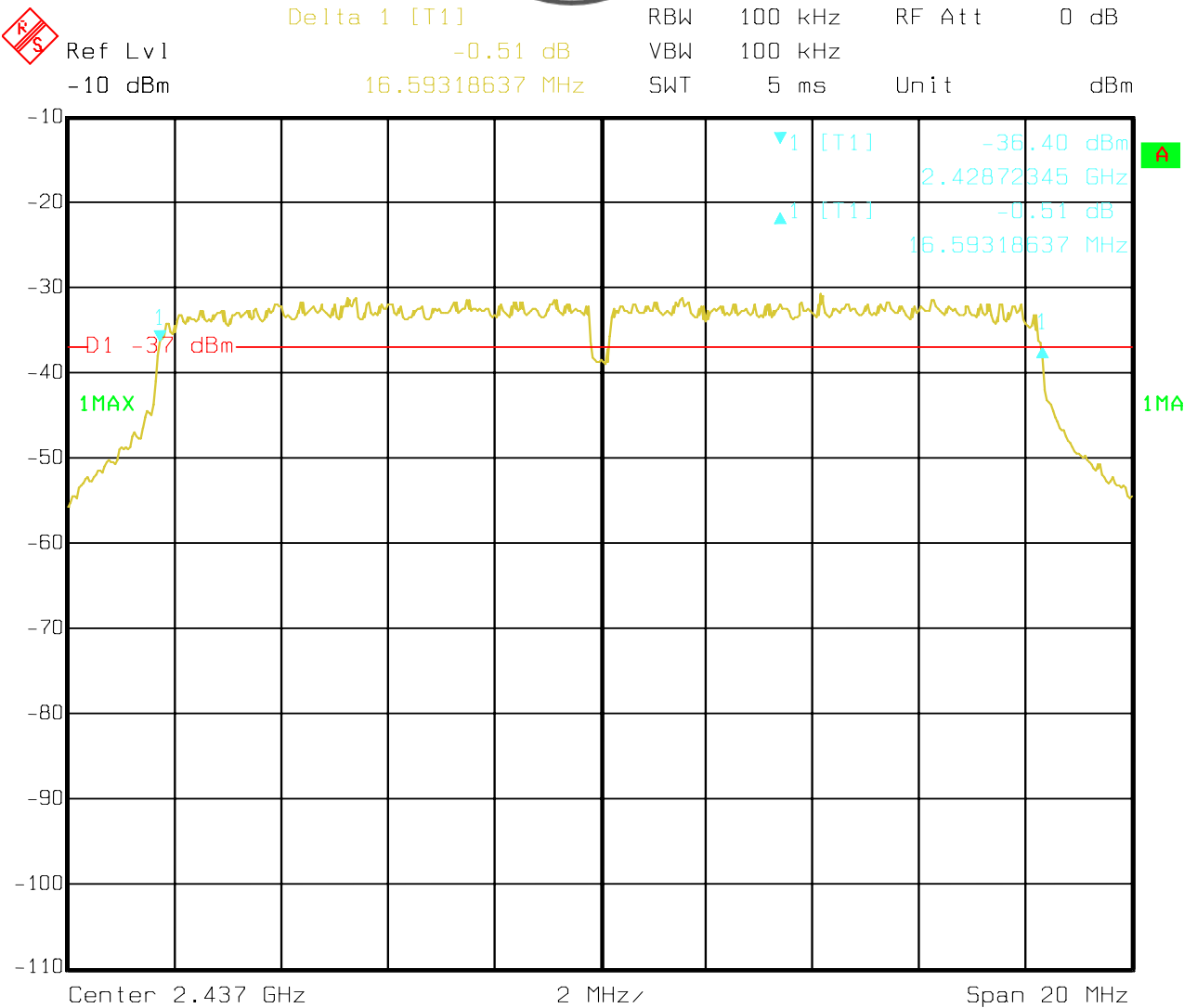
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2. 802.11g at 6Mbps of CH06

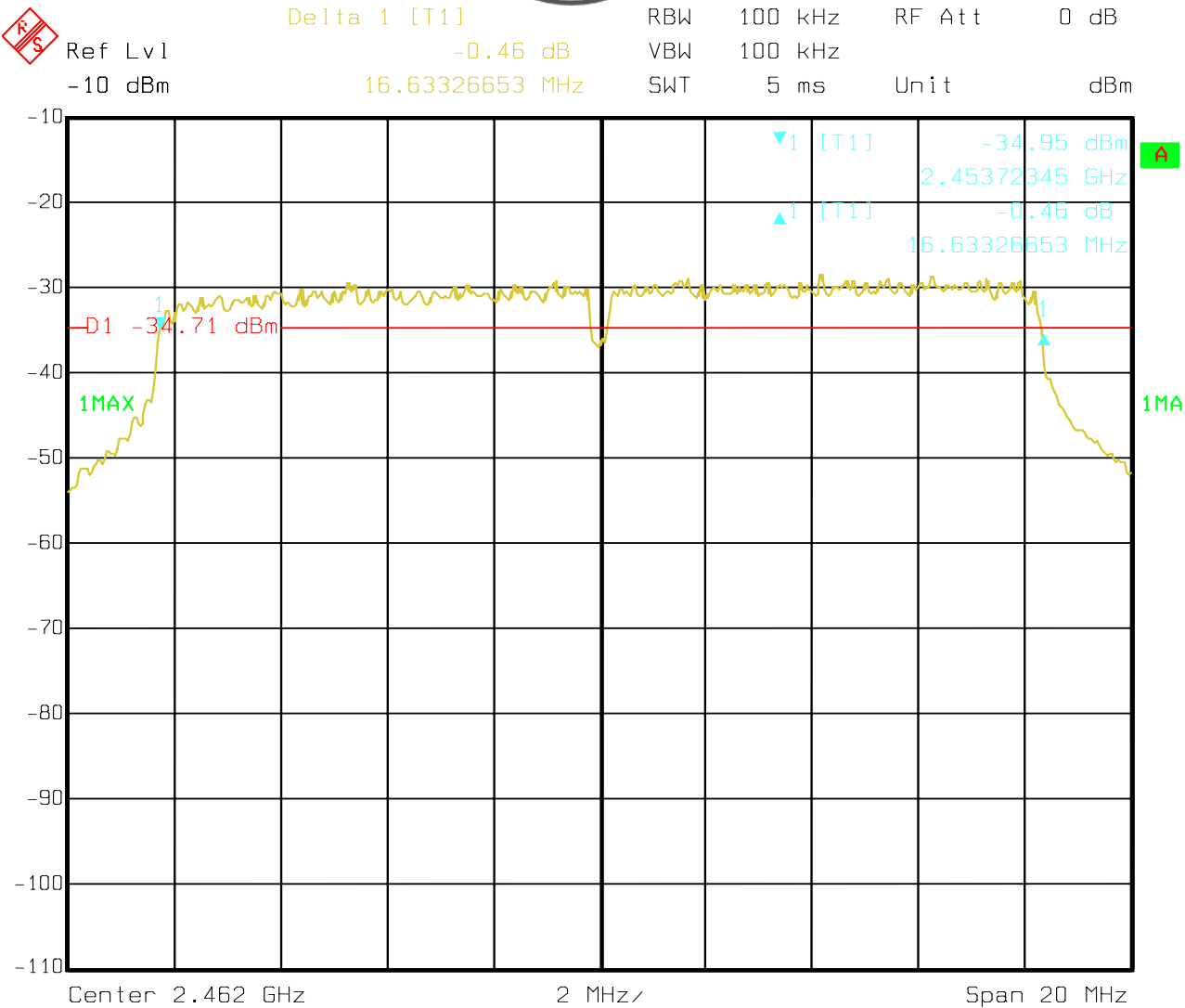


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3. 802.11g at 6Mbps of CH11

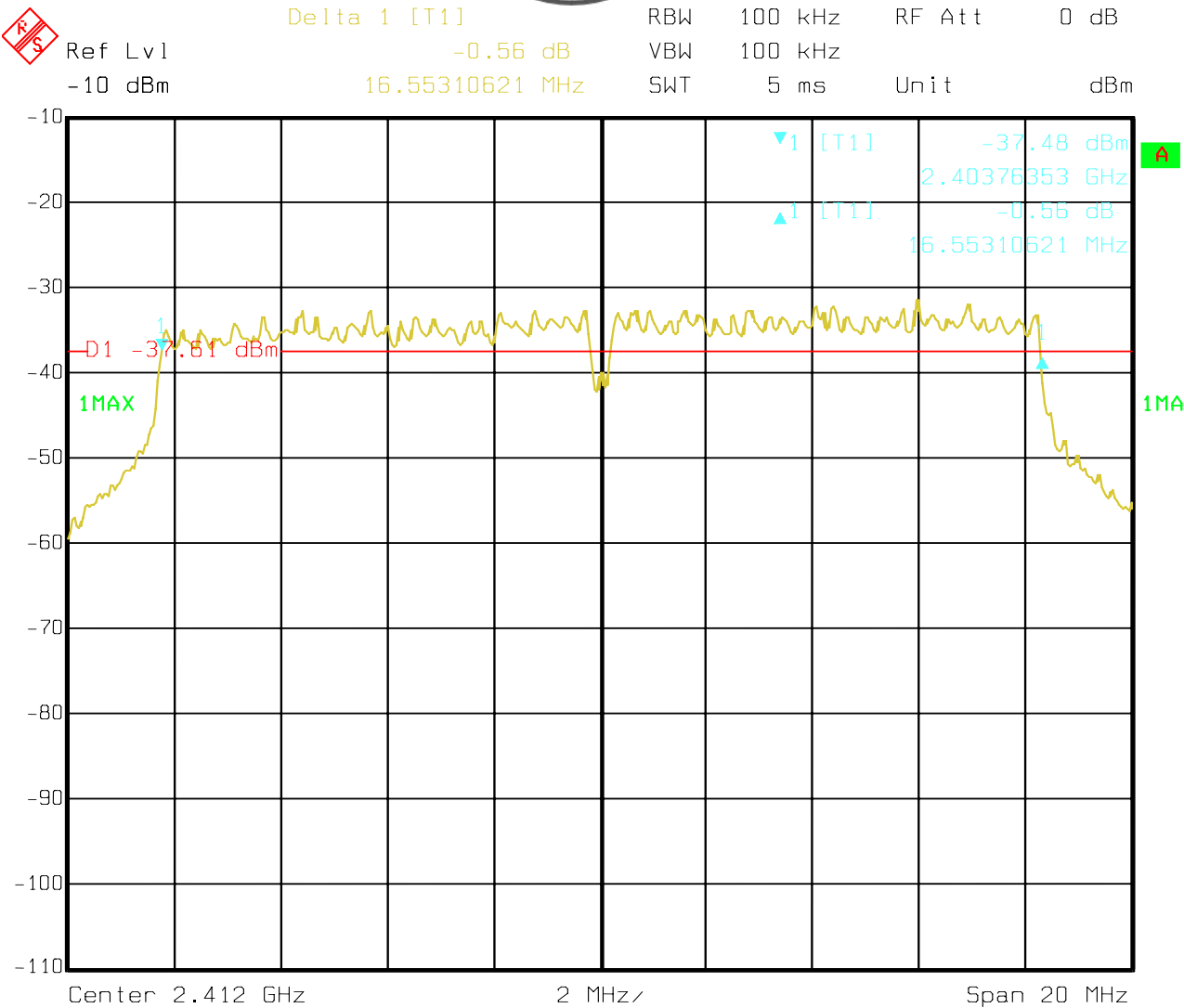


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4. 802.11g at 54Mbps of CH01

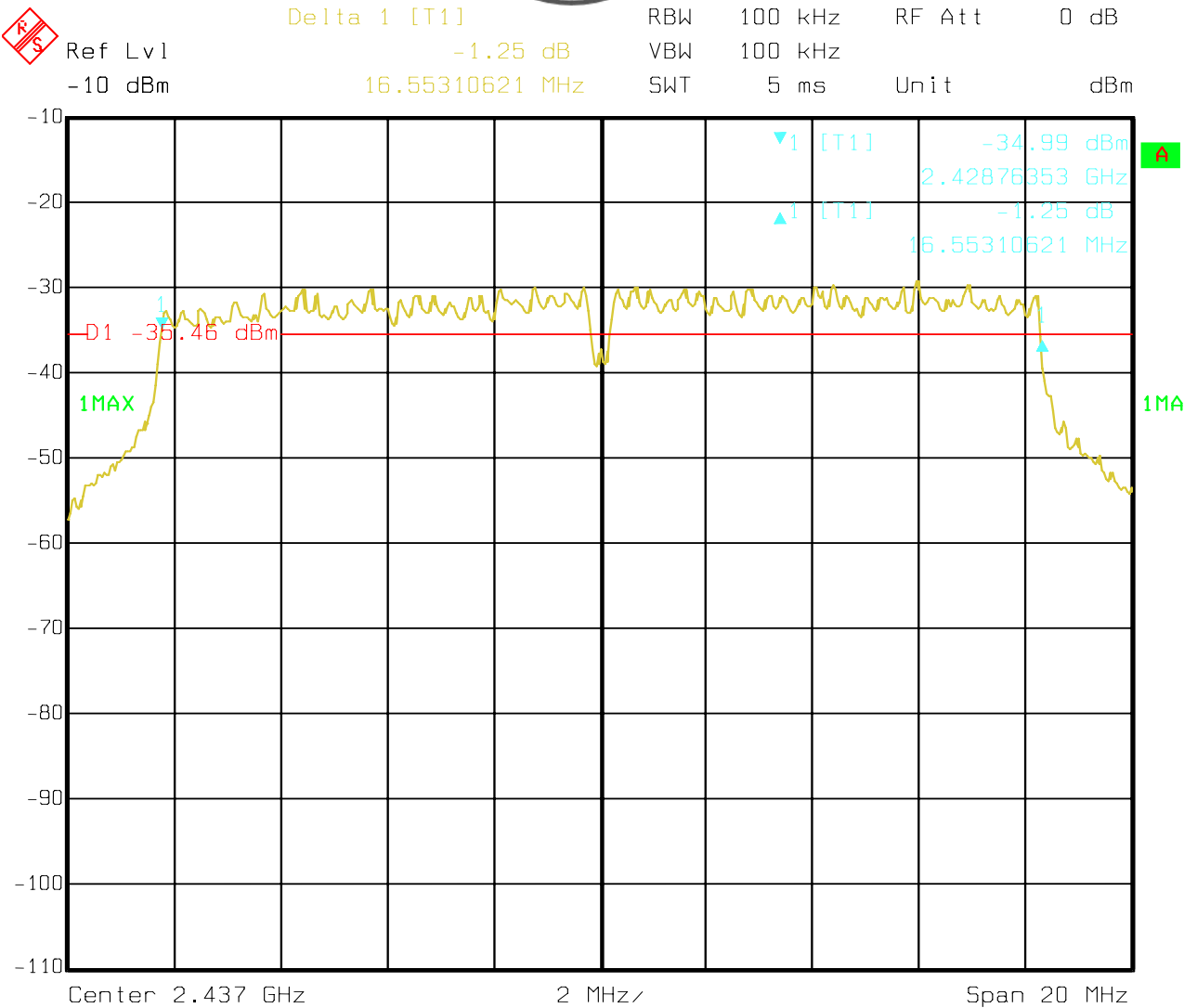


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5. 802.11g at 54Mbps of CH06

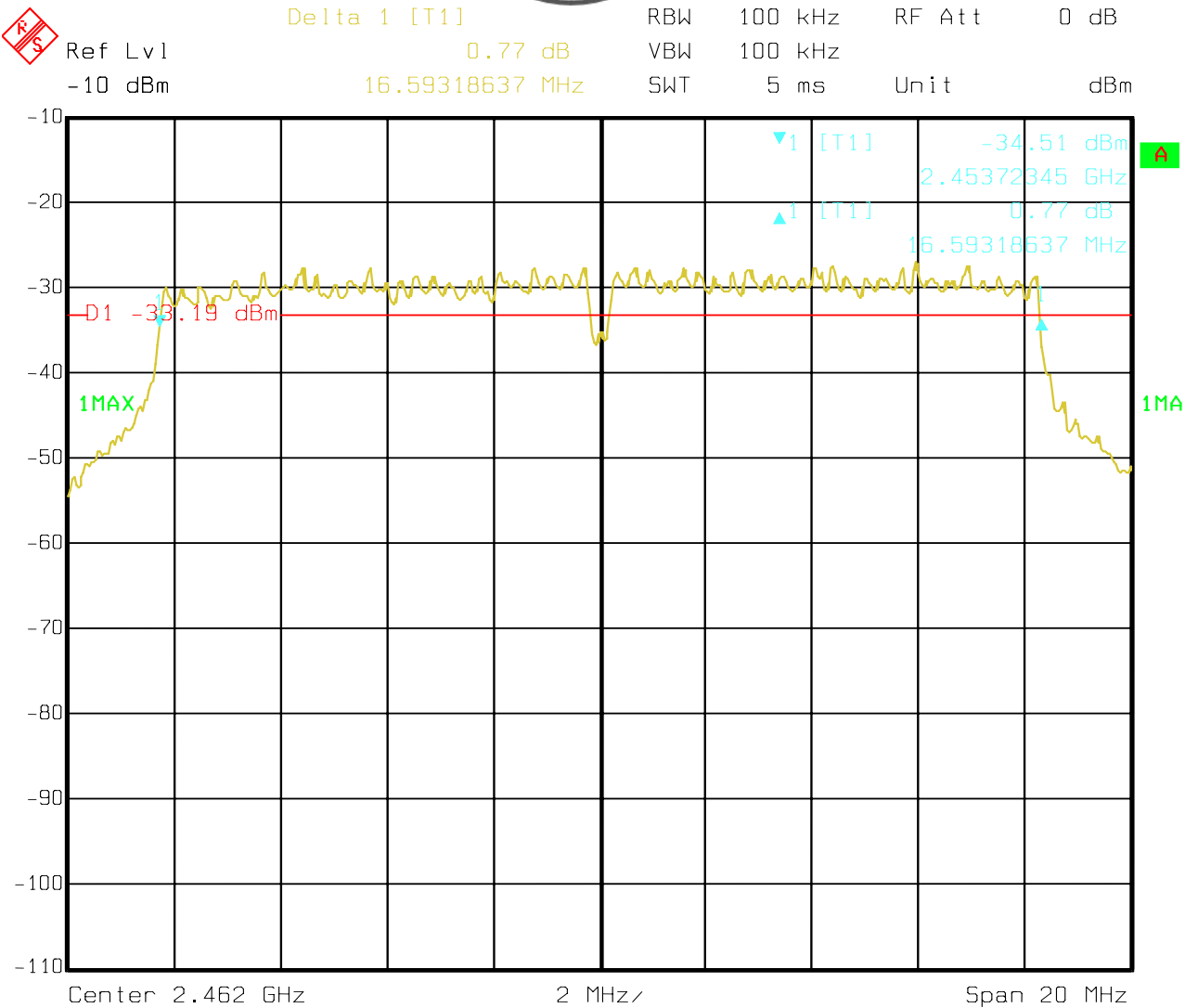


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6. 802.11g at 54Mbps of CH11



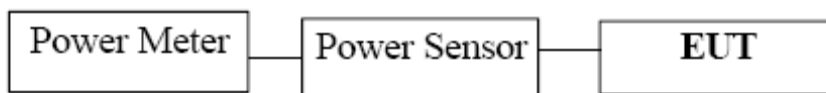
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## 8. Maximum Peak Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector ( conducted measurement ) while EUT was operating in transmit mode at the appropriate centre frequency.

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#### 8.4 Test Results

EUT		Notebook		Model		PC-88002	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		13.74		30		Pass
6	2437		13.43		30		Pass
11	2462		13.22		30		Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

EUT		Notebook	Model	PC-88002	
Mode		802.11b	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412		13.22	30	Pass
6	2437		13.12	30	Pass
11	2462		12.73	30	Pass

Note: 1. At final test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

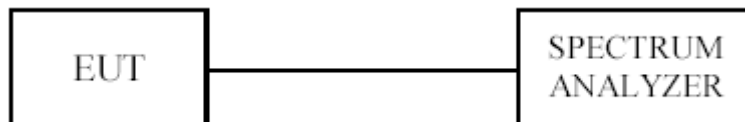
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

### 9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 10kHz VBW, set sweep time=100s

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

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#### 9.4 Test Result

EUT		Notebook	Model	PC-88002	
Mode		802.11g	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail	
1	2412	-22.83	8	Pass	
6	2437	-23.01	8	Pass	
11	2462	-23.31	8	Pass	

Note: For 802.11g mode at final test to get the worst-case emission at 6Mbps for CH11, CH06 and CH01

EUT		Notebook		Model		PC-88002	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
1	2412		-17.33		8		Pass
6	2437		-17.64		8		Pass
11	2462		-17.73		8		Pass

Note: For 802.11g mode at final test to get the worst-case emission at 54Mbps for CH11, CH06 and CH01

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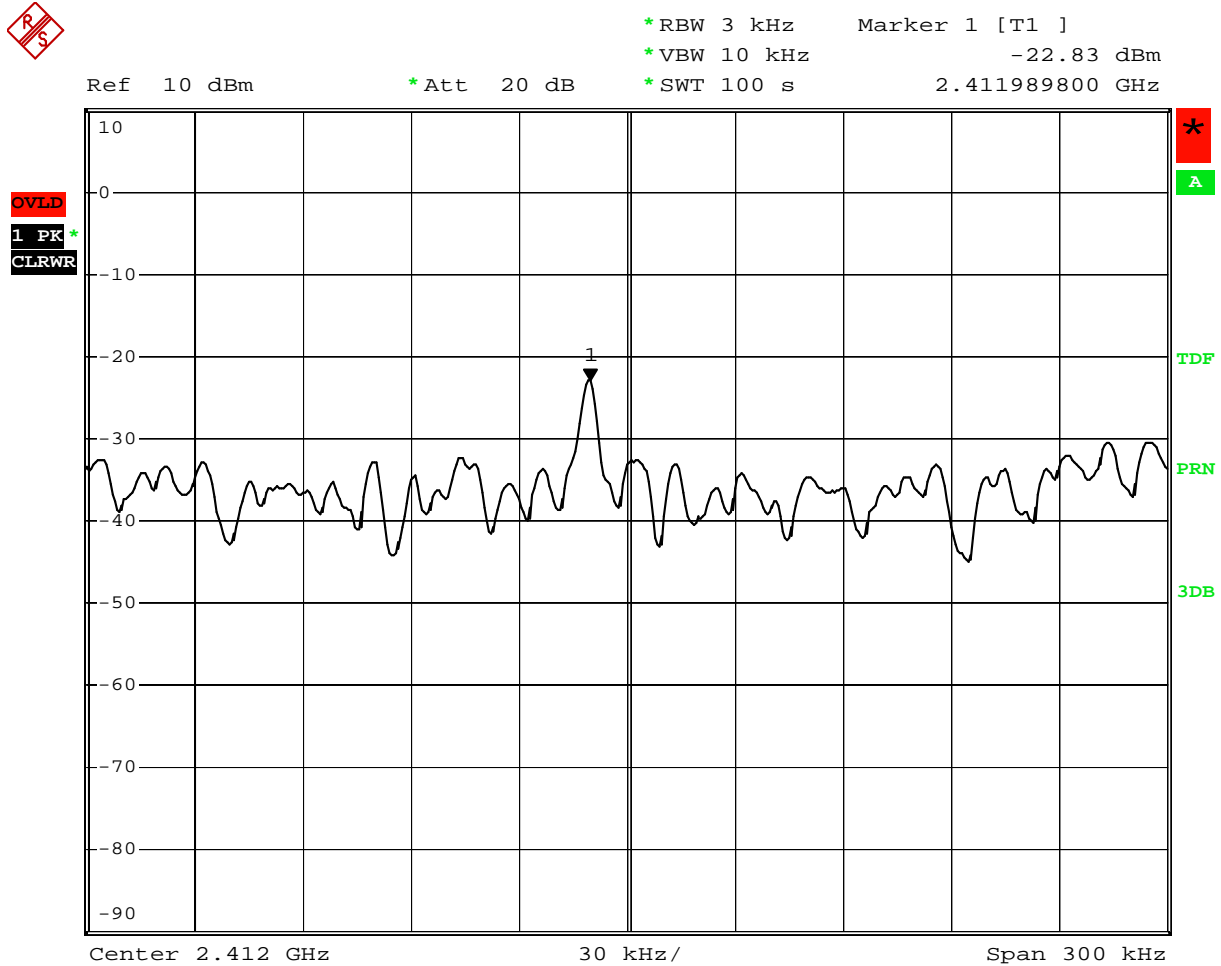
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### 9.5Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01

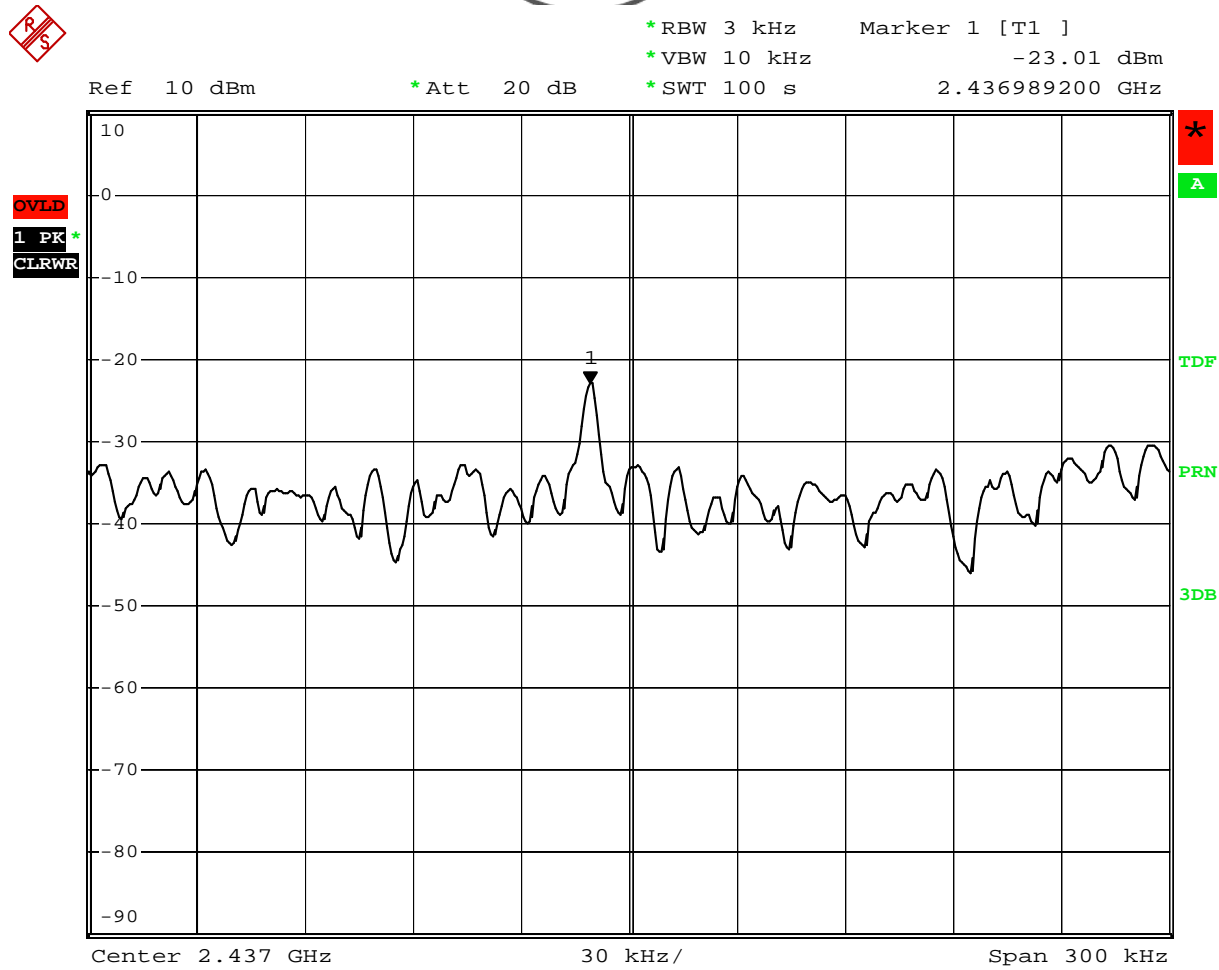


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2. 802.11g at 6Mbps at CH06

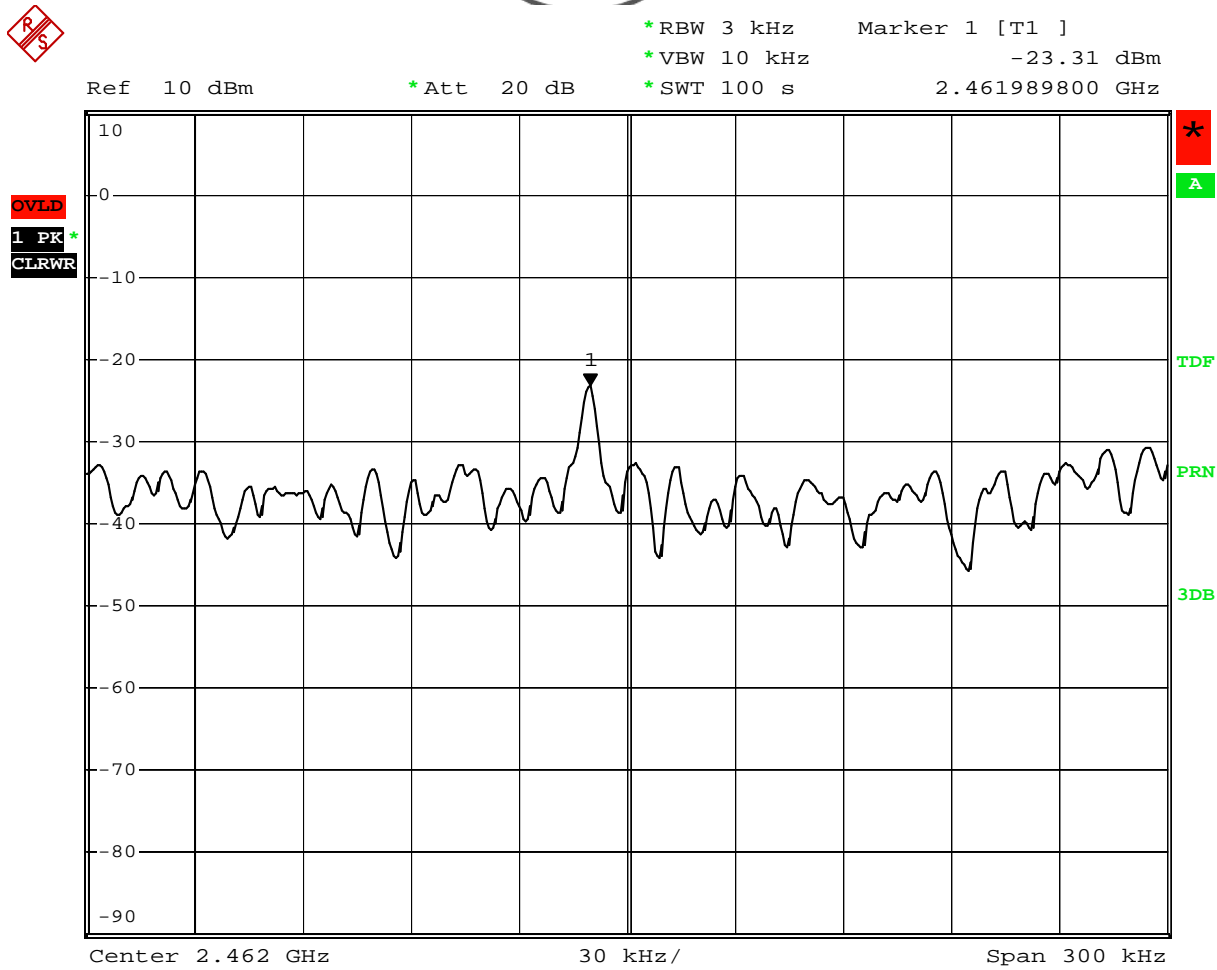


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3. 802.11g at 6Mbps of CH11



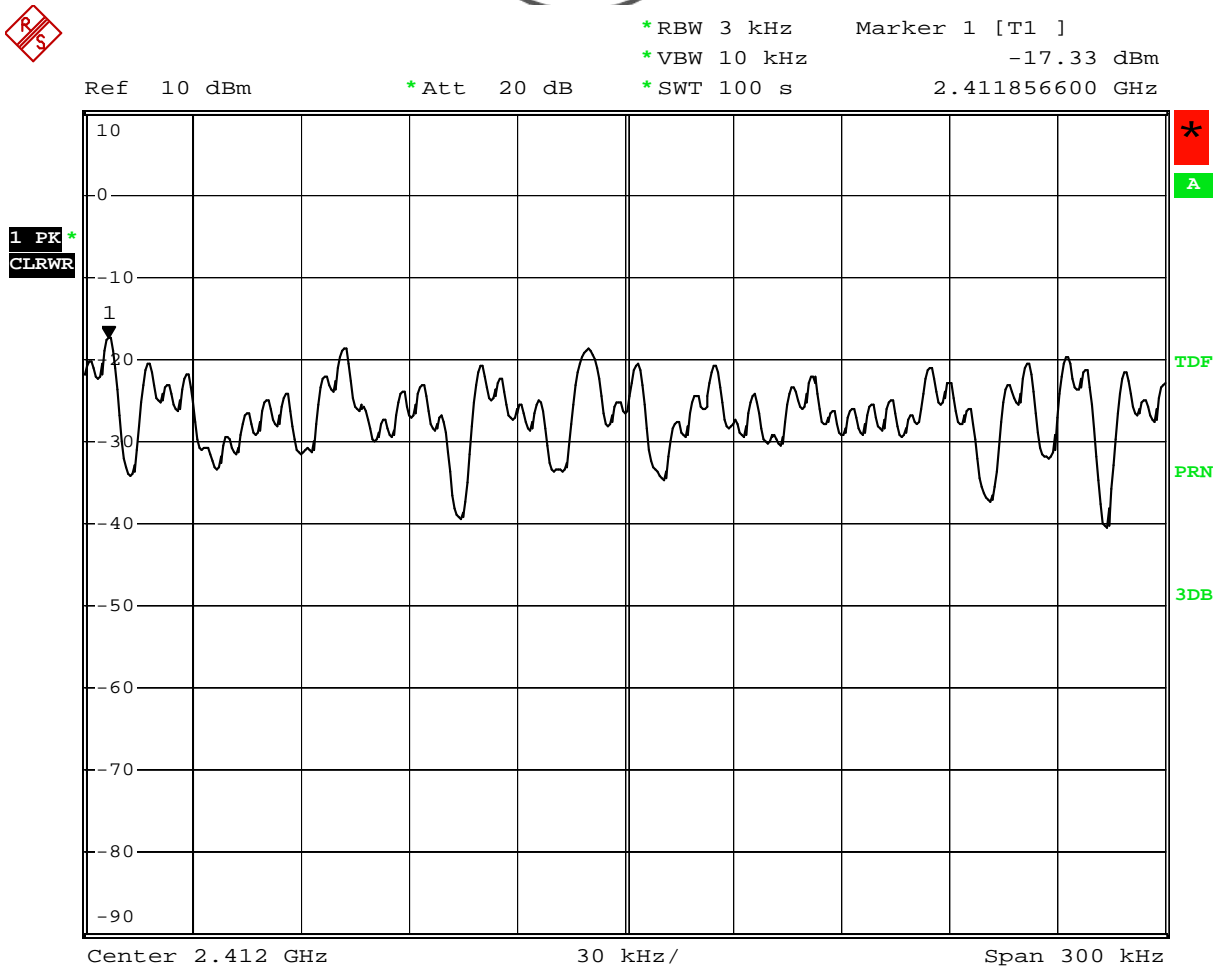
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TEST REPORT

4. 802.11b at 11Mbps of CH01

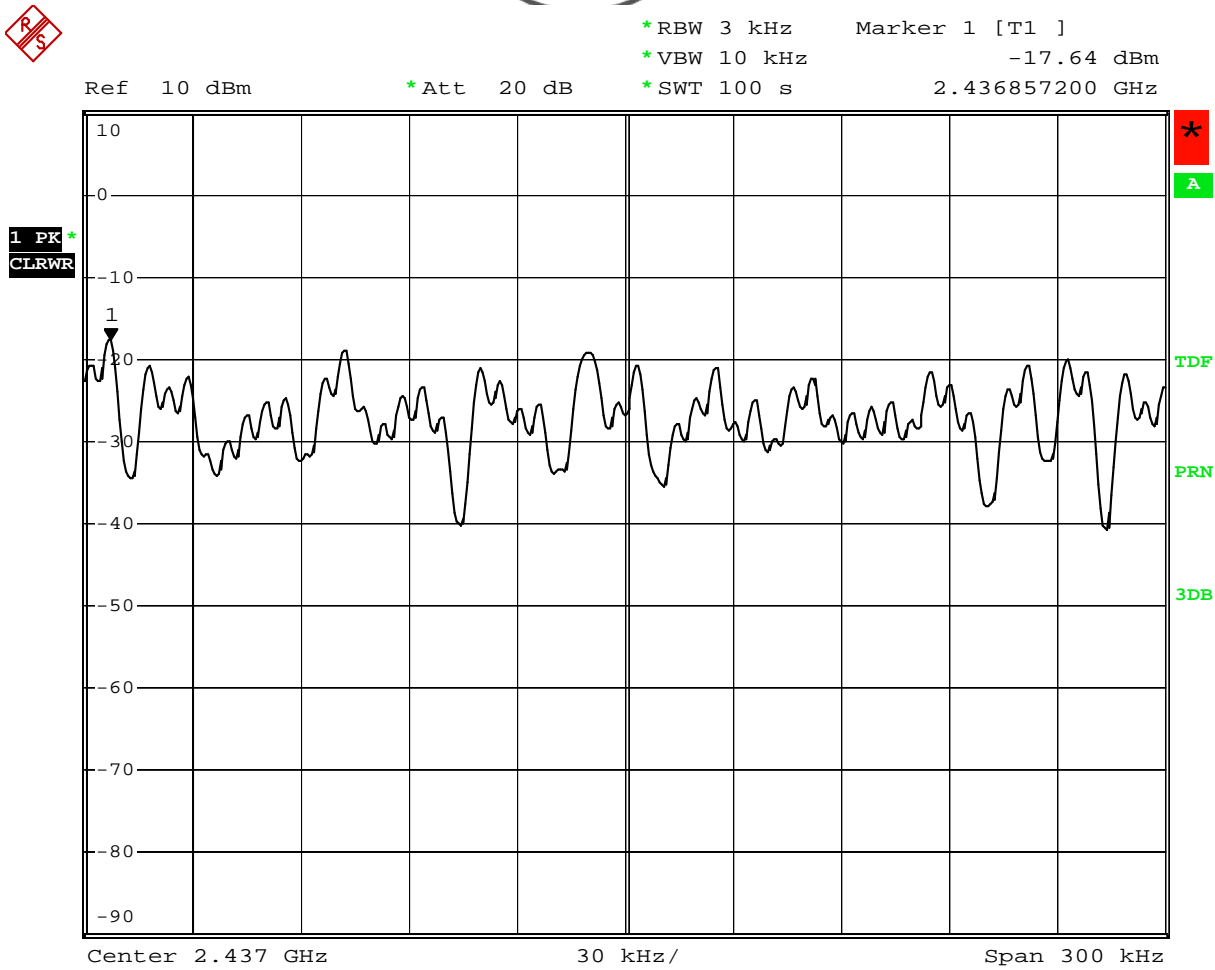


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5. 802.11b at 11Mbps of CH06

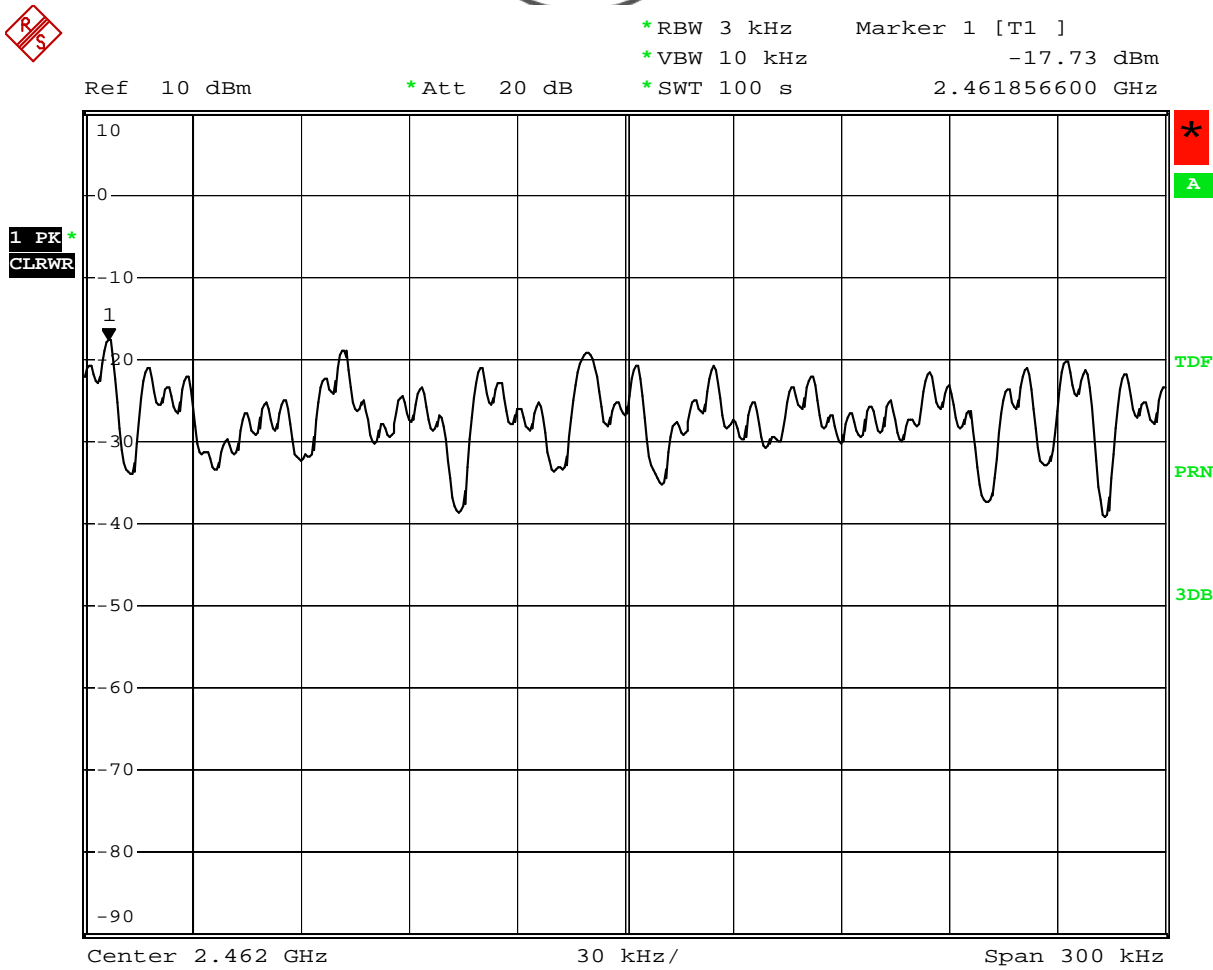


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6. 802.11b at 11Mbps of CH11



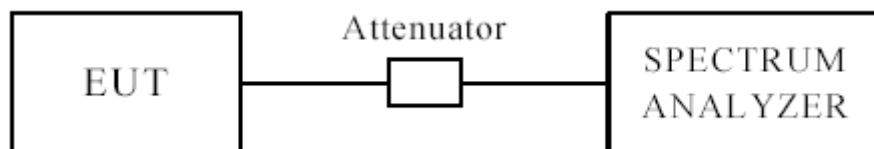
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## 10 Out of Band Measurement

### 10.1 Test Setup



### 10.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

### 10.4 Test Result

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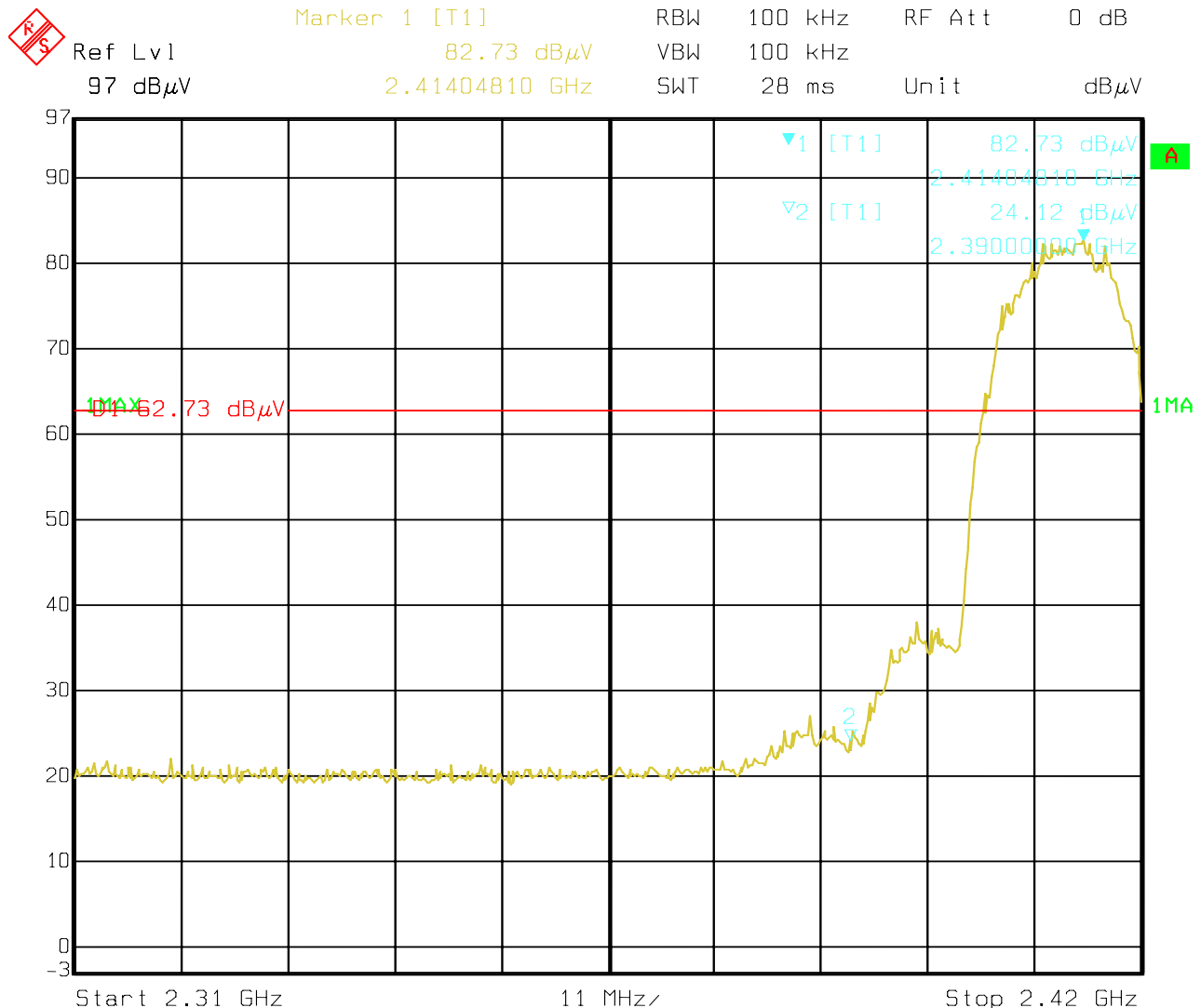
For 802.11b mode

CH01 at 11Mbps

#### 10.4 Out of Band Test Result

Product:	Notebook		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	41.9(V)/38.2(H)	Limit	74(dBμV/m)
	AV(dBμV/m)	35.6(V)/32.2(H)		54(dBμV/m)

#### Test Figure:



Date: 17.JUN.2008 19:15:57

**Note: The Max. FS in Restrict Band are measured in conventional method.**

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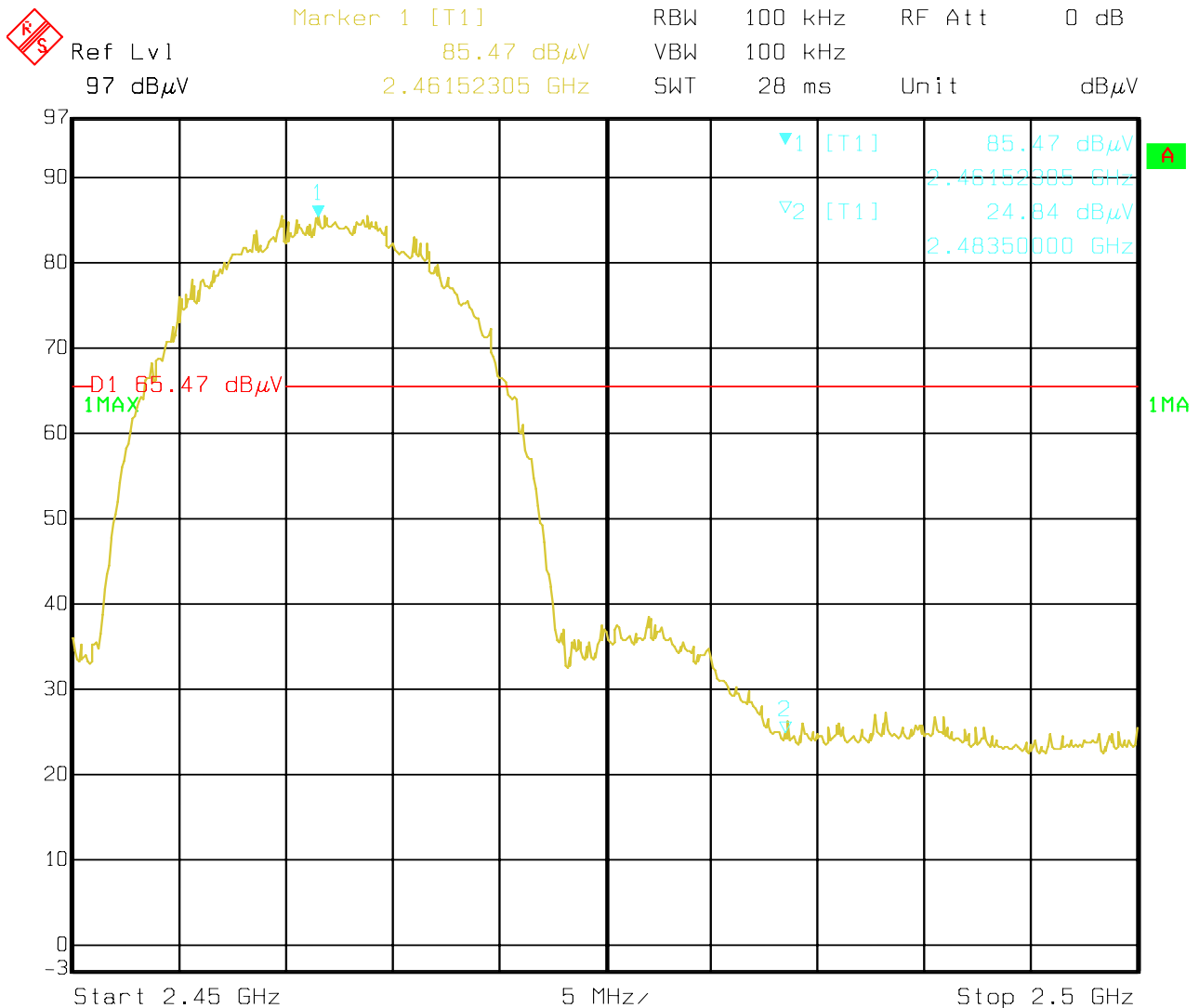


CH11 at 11Mbps

#### 10.4 Out of Band Test Result

Product:	Notebook		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	40.3(V)/39.2(H)	Limit	74(dBμV/m)
	AV(dBμV/m)	34.1(V)/33.6(H)		54(dBμV/m)

#### Test Figure:



Date: 17.JUN.2008 19:20:48

**Note: The Max. FS in Restrict Band are measured in conventional method.**

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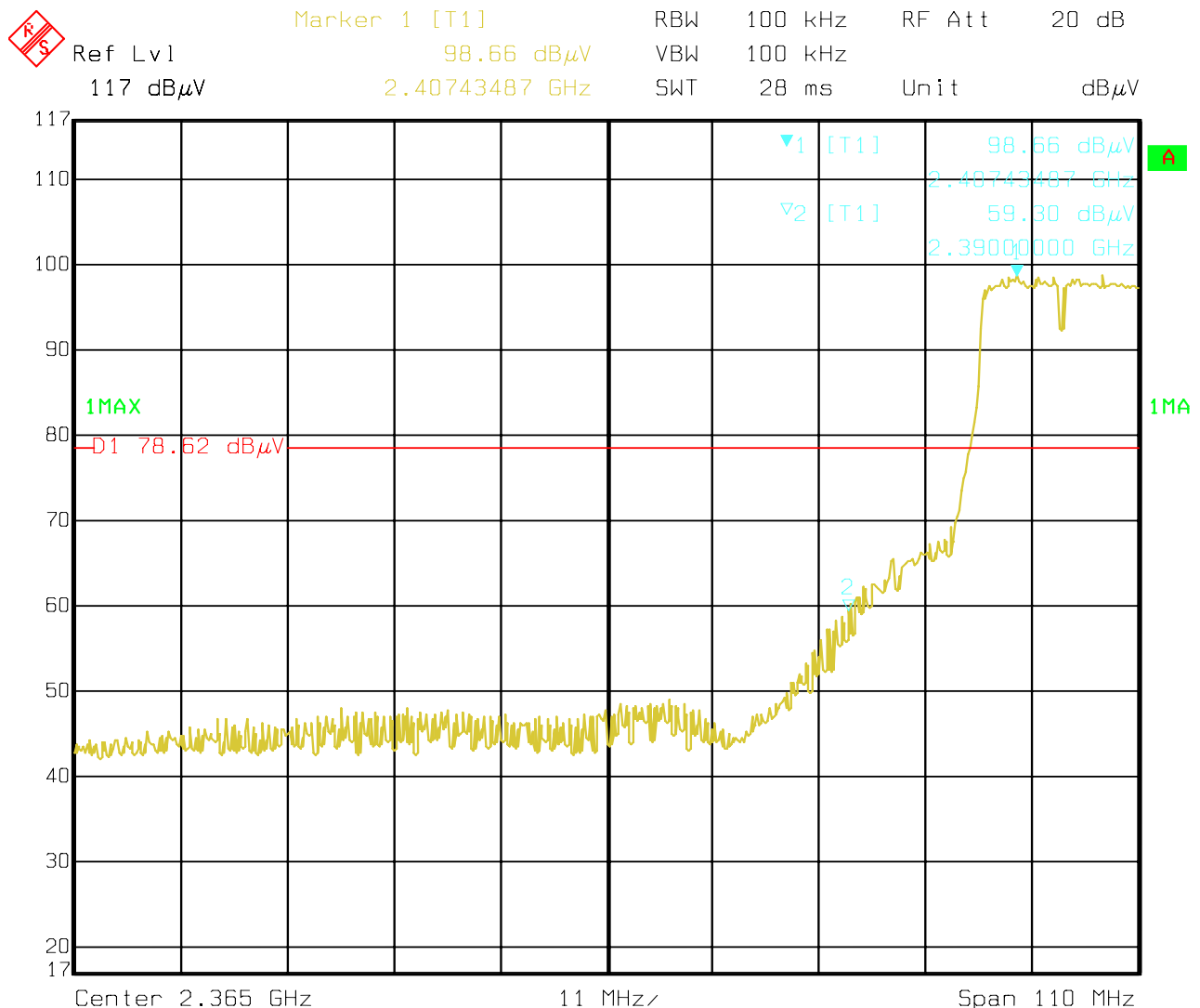
For 802.11g mode

CH01 at 6Mbps

#### 10.4 Out of Band Test Result

Product:	Notebook		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	55.3(V)/53.2(H)	Limit	74(dBμV/m)
	AV(dBμV/m)	42.8(V)/41.2(H)		54(dBμV/m)

#### Test Figure:



Date: 27.JUN.2008 15:26:40

**Note: The Max. FS in Restrict Band are measured in conventional method.**

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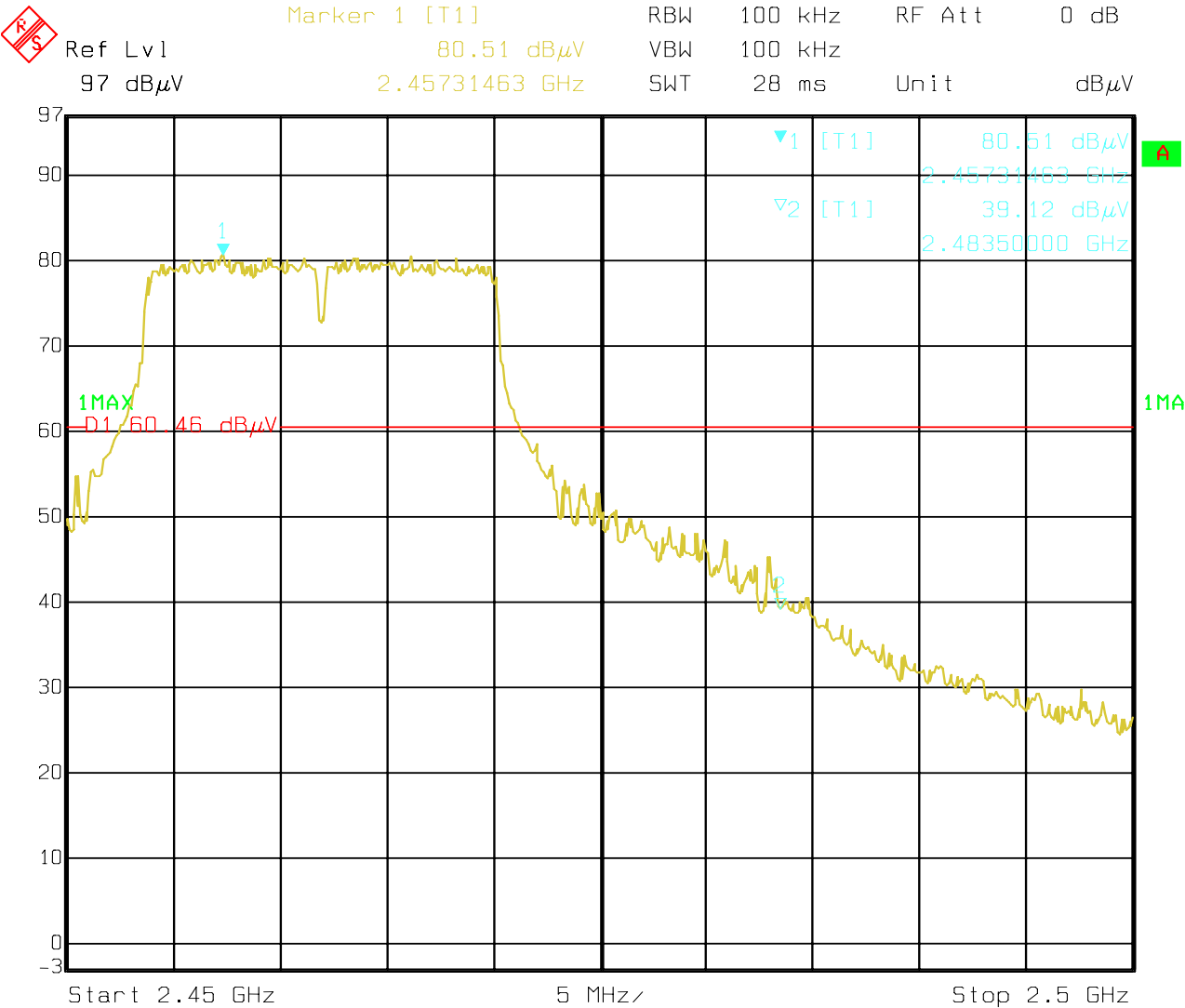


CH11 at 6Mbps

10.4 Out of Band Test Result

Product:	Notebook		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	50.2(H)/47.5(V)	Limit	74(dBμV/m)
	AV(dBμV/m)	37.3(H)/36.8(V)		54(dBμV/m)

Test Figure:



Date: 17.JUN.2008 19:21:45

**Note: The Max. FS in Restrict Band are measured in conventional method.**

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## **11.0 Antenna Requirement**

### **11.1 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 transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **11.2 Antenna Connected construction**

There are two antennas used in the device. An RF cable connected the IPX connector with the antenna board. The maximum Gain of both antennas is 1.50dBi.

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## **12.0 Maximum Permissible Exposure**

### **Applicable Standard**

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device.

According to §1.1310 and §2.1093 RF exposure is calculated.

### **Measurement Result**

This is a laptop and the conducted output power is 13.74dBm (23.659mW), which is lower than low threshold 60/fGHz mW ( $60/2.462\text{GHz} = 24.37\text{ mW}$ ), and the antenna is 1.5dBi which is less than 6dBi.

**The SAR measurement is not necessary.**

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### 13.0 FCC ID Label

**FCC ID: SMFPC-88002**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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#### 14.0 Photo of testing

##### 14.1 Conducted test View--



##### 14.2 Emission Radiated test View--



##### 14.3 Photo for the EUT

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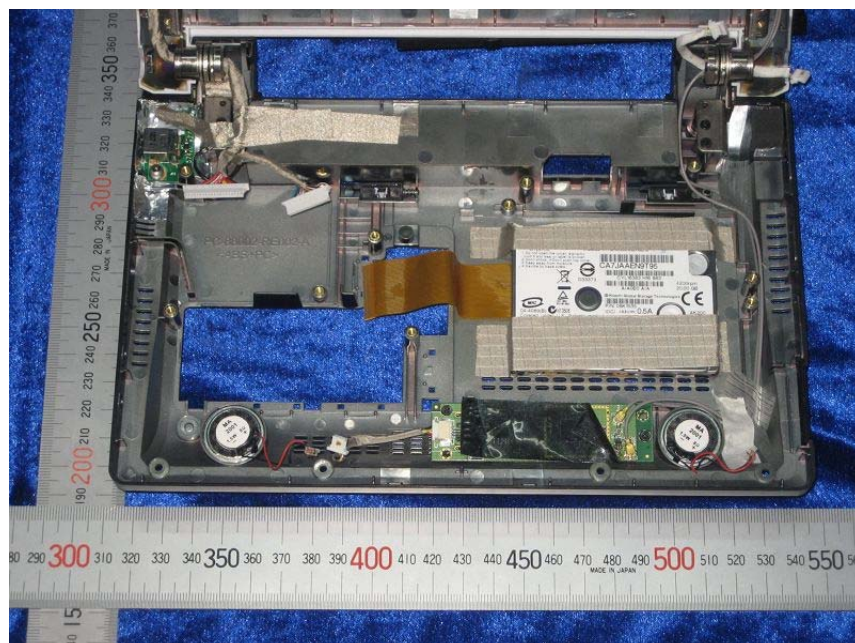
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Interior View

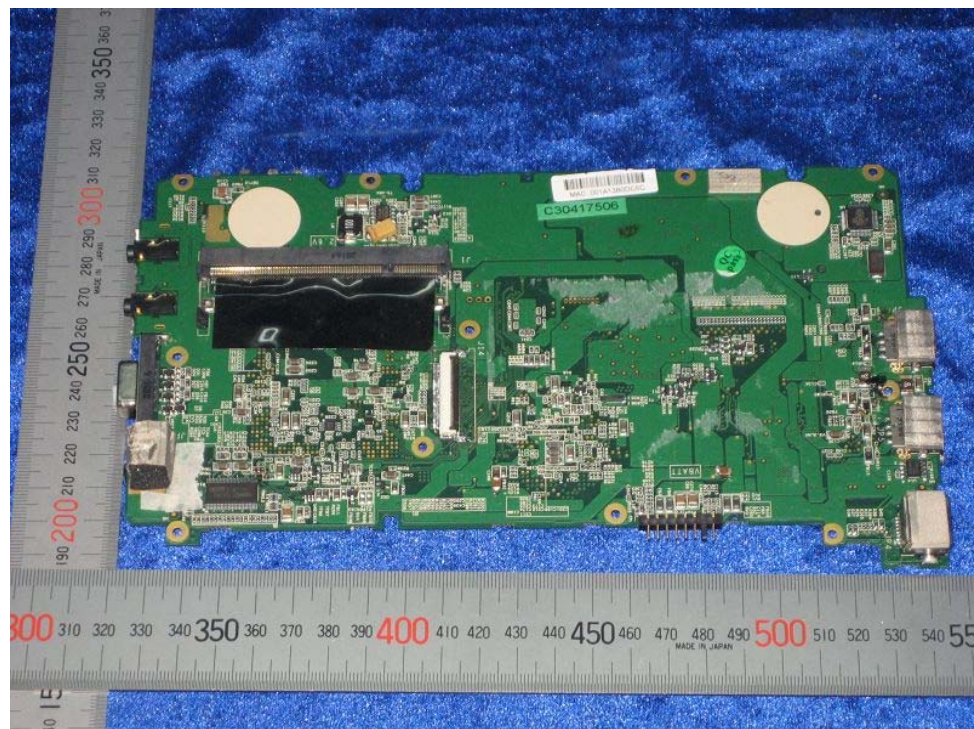


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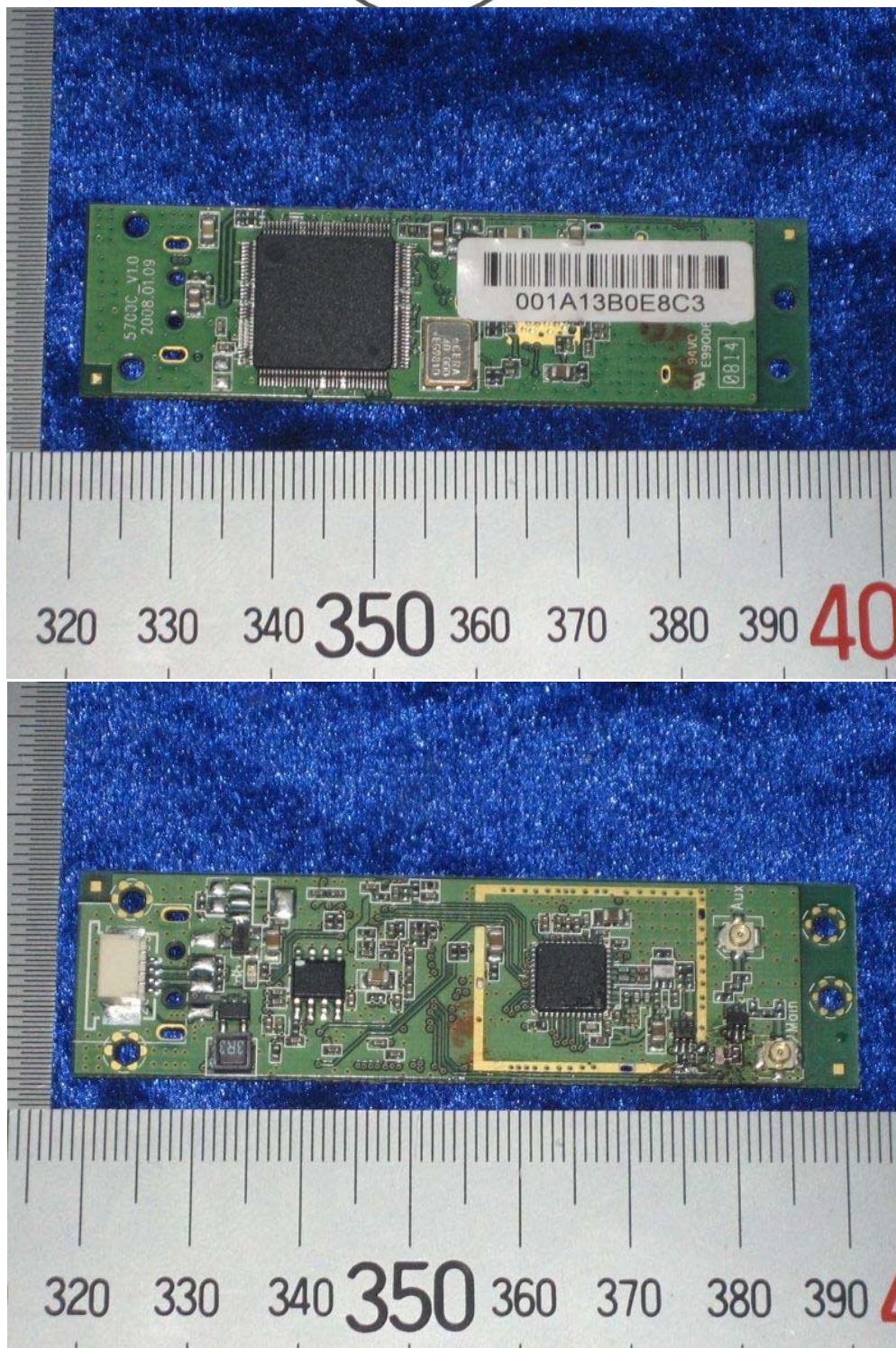
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WLAN Card



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