



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 0807244  
File reference No: 2008-09-22

Applicant: SHENZHEN TENDA TECHNOLOGY CO., LTD

Product: 300M Wireless PCI Adapter

Model No: W302P

Trademark: Tenda

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

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

Approved By

*Jack Chung*

Jack Chung  
Manager

Dated: Sep 22, 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.

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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: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: SHENZHEN TENDA TECHNOLOGY CO., LTD  
Address: 3F, Moso Technology Park, Xili Town, Nanshan District, Shenzhen 518108, China  
Telephone: +86-755-27657068  
Fax: +86-755-27657178

### 1.3 Description of EUT

Product:	300M Wireless PCI Adapter
Manufacturer:	SHENZHEN TENDA TECHNOLOGY CO., LTD
Brand Name:	Tenda
Model Number:	W302P
Additional Model Name	N/A
Additional Trade Name	N/A
Power Source	Powered By PC
Type of Modulation	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16AQM, QPSK, BPSK) IEEE 802.11n HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency range	IEEE 802.11b/g, 802.11n HT20: 2412-2462MHz IEEE 802.11n HT40 : 2422MHz-2452MHz
Channel Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Air Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE 802.11n HT20 : 130, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps IEEE 802.11n HT40 : 130, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps
Frequency Selection	By software



Channel Number IEEE 802.11b/g, 802.11n HT20 : 11 Channels  
IEEE 802.11n HT40 : 7 Channels

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2008-08-05 to 2008-09-22

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	2008-04-26	2009-04-25
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

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FM-AM Signal Generator	JUNGGJIN	SG-150M	389911177	2008-02-18	2009-02-17
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2008-02-18	2009-02-17
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2008-02-18	2009-02-17
Power meter	Anritsu	ML2487A	6K00003613	2008-02-18	2009-02-17
Power sensor	Anritsu	MA2491A	32263	2008-02-18	2009-02-17
Spectrum Analyzer	HAMEG	HM5012	-	2008-04-26	2009-04-25
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	Holiday	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	2008-04-26	2009-04-25

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## DESCRIPTION OF TEST MODES

The EUT is an 802.11n MISO transceiver in Mini PCI Adapter form factor. It has one transmitter chains and two receive chains (1 × 2 configurations). The 1 × 2 configuration is implemented with only one outside chains (Chain 0). 11b/g mode, only examines Chain 0, because only Chain 0 is functional according to the user driver of Ralink. The power is transmitted from TX0 only at 11b/g normal mode in Ralink solution. The RF chipset is manufactured by Ralink Technology, Corp. The antenna peak gain 5.0dBi (highest gain) were chosen for full testing.

### IEEE 802.11b, 802.11g, 802.11n HT20 mode

The EUT had been tested under operating condition. There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode : 11Mbps data rate (worst case) were chosen for full testing. IEEE 802.11g mode : 6Mbps data rate (worst case) were chosen for full testing. IEEE 802.11n HT20 mode: 130Mbps data rate (worst case) was chosen for full testing except for power density.

### IEEE 802.11n HT40 mode

The EUT had been tested under operating condition. There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n HT40 mode: 6Mbps data rate (worst case) was chosen for full testing except for power density.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at 2437 MHz.

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### 3.0 Technical Details

#### 3.1 Summary of test results

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

#### 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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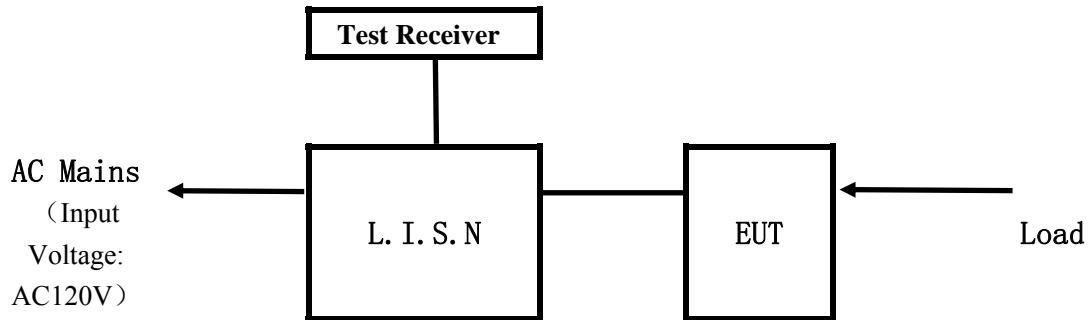
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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test

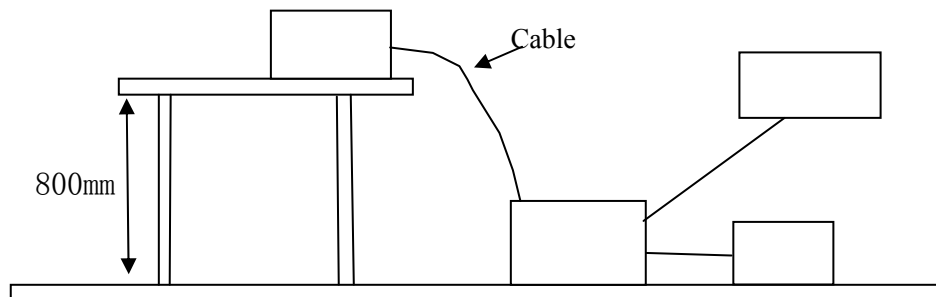


EUT: Equipment Under Test

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.

A. EUT

Device	Manufacturer	Model	FCC ID
300M Wireless PCI Adapter	SHENZHEN TENDA TECHNOLOGY CO., LTD	W302P	V7TW302P

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Keyboard	IBM	KB-0225	DOC	2.0m length non-shielding
PC	IBM	8434	DOC	1.5m length non-shielding AC mains
Monitor	IBM	6331-4CN	DOC	1.5m length non-shielding VGA cable
Mouse	DELL	1310	DOC	1.5m length non-shielding

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

C Test voltage: AC120V

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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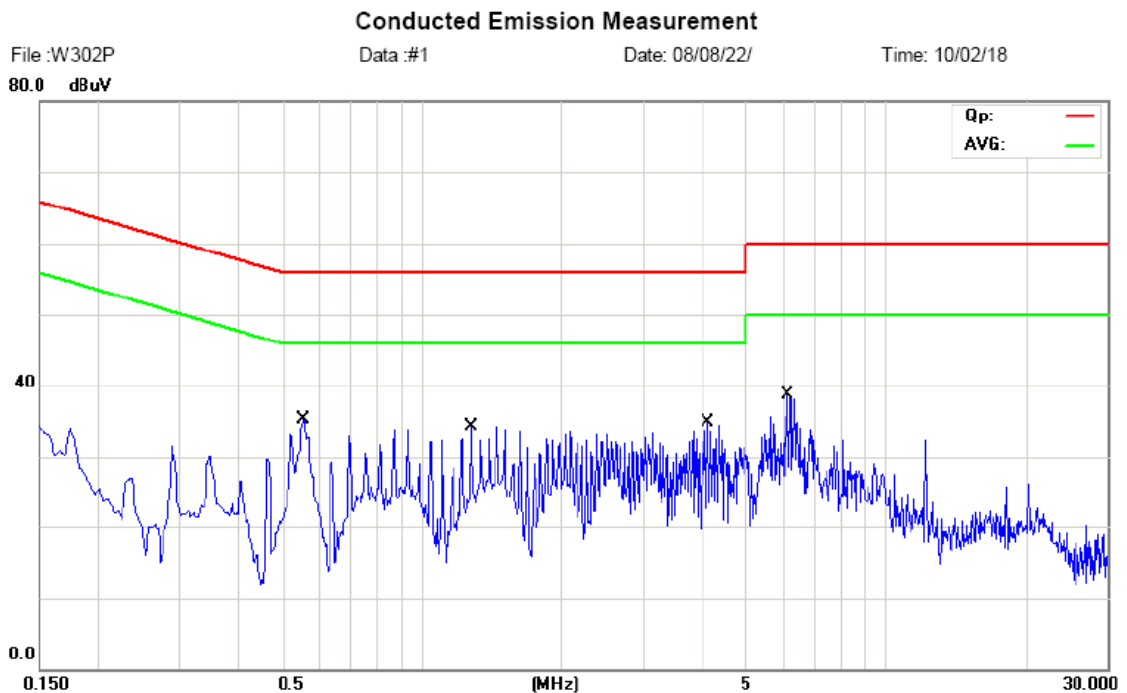


**A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Normal

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.5580	30.20	25.70	--	--	56.00	46.00
1.2820	29.20	28.10	--	--	56.00	46.00
4.1380	24.80	23.60	--	--	56.00	46.00
6.1820	25.80	18.70	--	--	60.00	50.00

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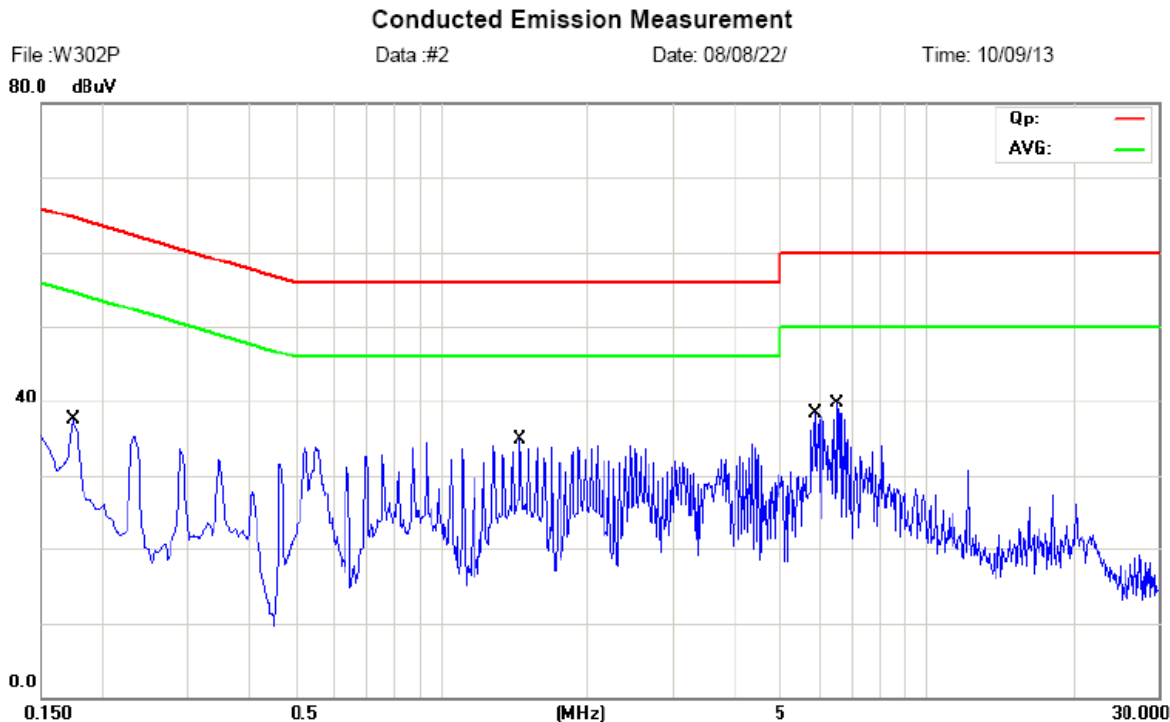


**B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Normal

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Live		Neutral		Quasi-peak      Average	
	Quasi-peak	Average	Quasi-peak	Average		
0.1740	--	--	23.10	20.20	64.77	54.77
1.4597	--	--	19.70	17.80	56.00	46.00
5.9056	--	--	21.50	11.20	60.00	50.00
6.5448	--	--	20.40	10.20	60.00	50.00

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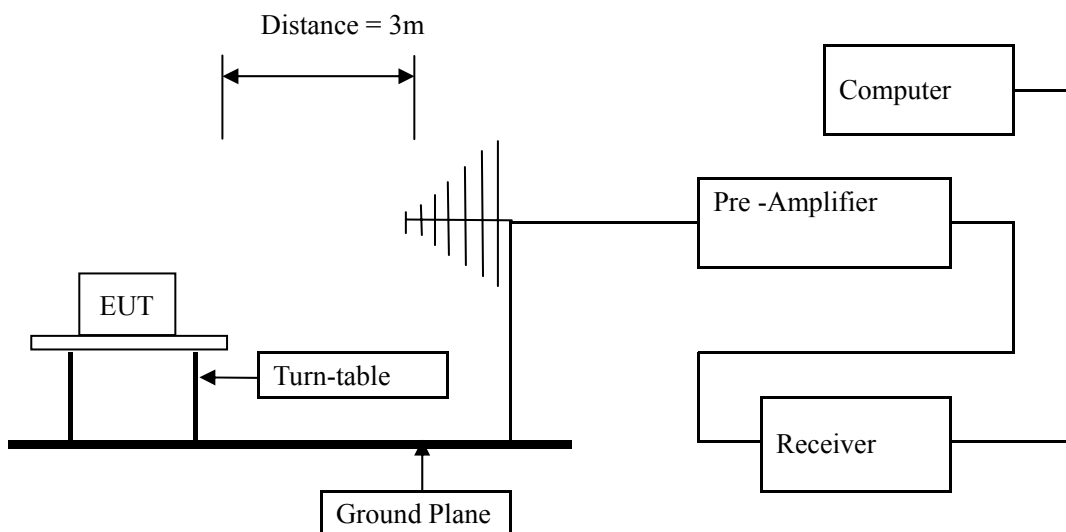


## 6 Radiated Emission Test

### 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 and video bandwidth of 1 MHz ; AV values with a resolution bandwidth of 1MHz and a video bandwidth of 10Hz. 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 (uV)
  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

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**Test result**

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

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

EUT set Condition: Normal Operation

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
110.235	25.63	H	43.50
171.256	29.89	H	43.50
196.080	31.61	H	43.50
485.632	35.96	H	46.00
71.023	28.55	V	40.00
108.125	39.56	V	43.50
150.875	36.29	V	43.50
177.775	35.07	V	43.50
216.150	31.92	V	46.00

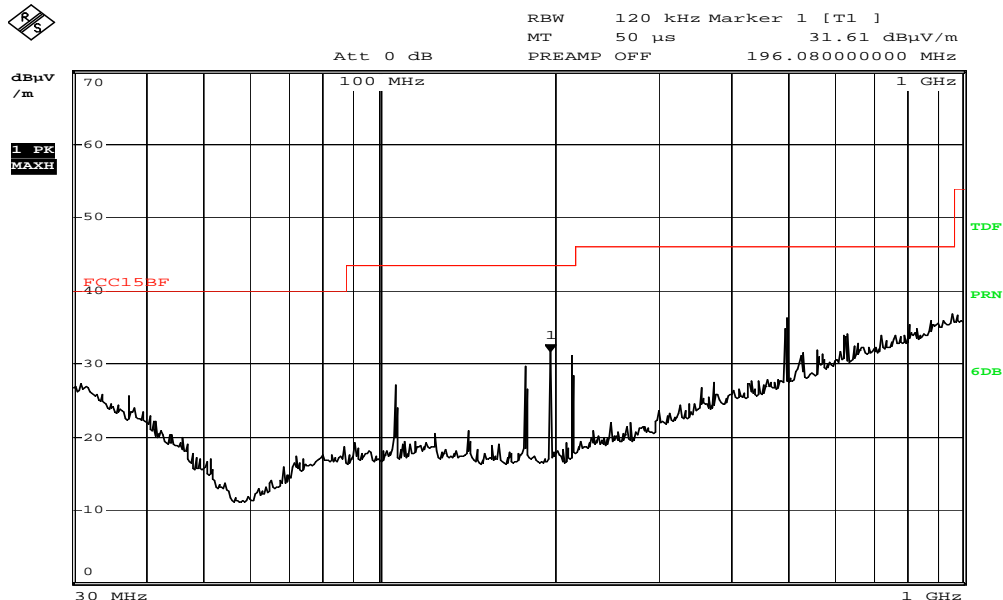
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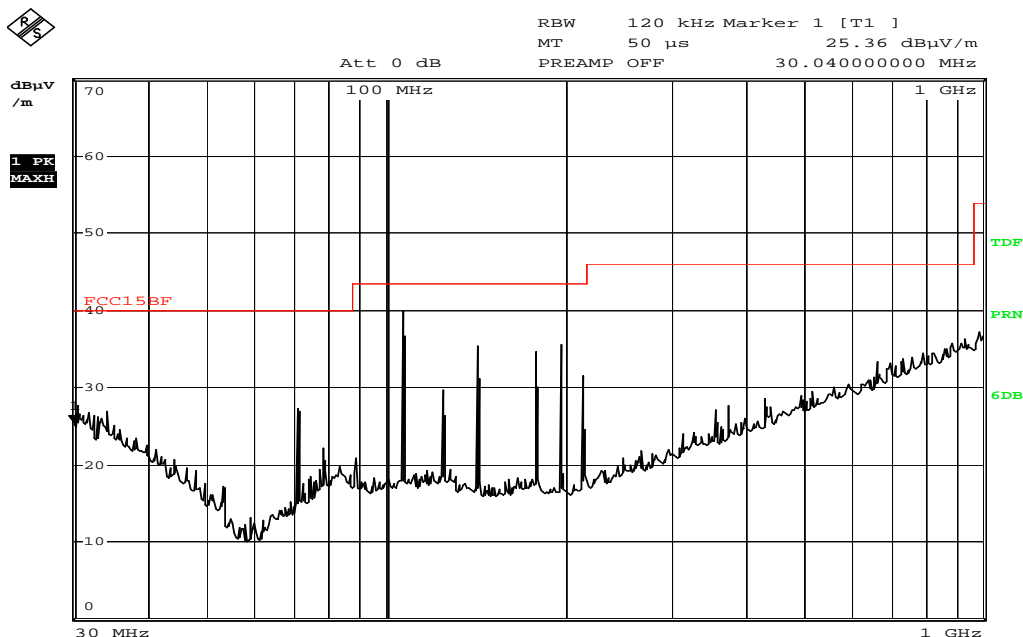


Test Figure:



Date: 22.AUG.2008 10:26:36

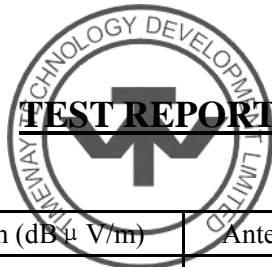
**V**



Date: 22.AUG.2008 10:24:14

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Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	99.2(PK) /82.3 (AV)	H	Fundamental Frequency
2412.00	102.5(PK) /84.6 (AV)	V	
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)
3216	49.6(PK) /48.2 (AV)	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	104.2 (PK) /85.6 (AV)	V	Fundamental Frequency
2437.00	99.3 (PK) /82.8 (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)
3216	47.6 (PK) /46.2 (AV)	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	97.6 (PK) /80.7 (AV)	H	Fundamental Frequency
2462.00	100.3 (PK) /84.2 (AV)	V	
4924	49.2 (PK) /37.3 (AV)	V	74(Peak)/ 54(AV)
4924	--	H	74(Peak)/ 54(AV)
7386	--	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)
3216	46.6 (PK) /44.7 (AV)	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

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

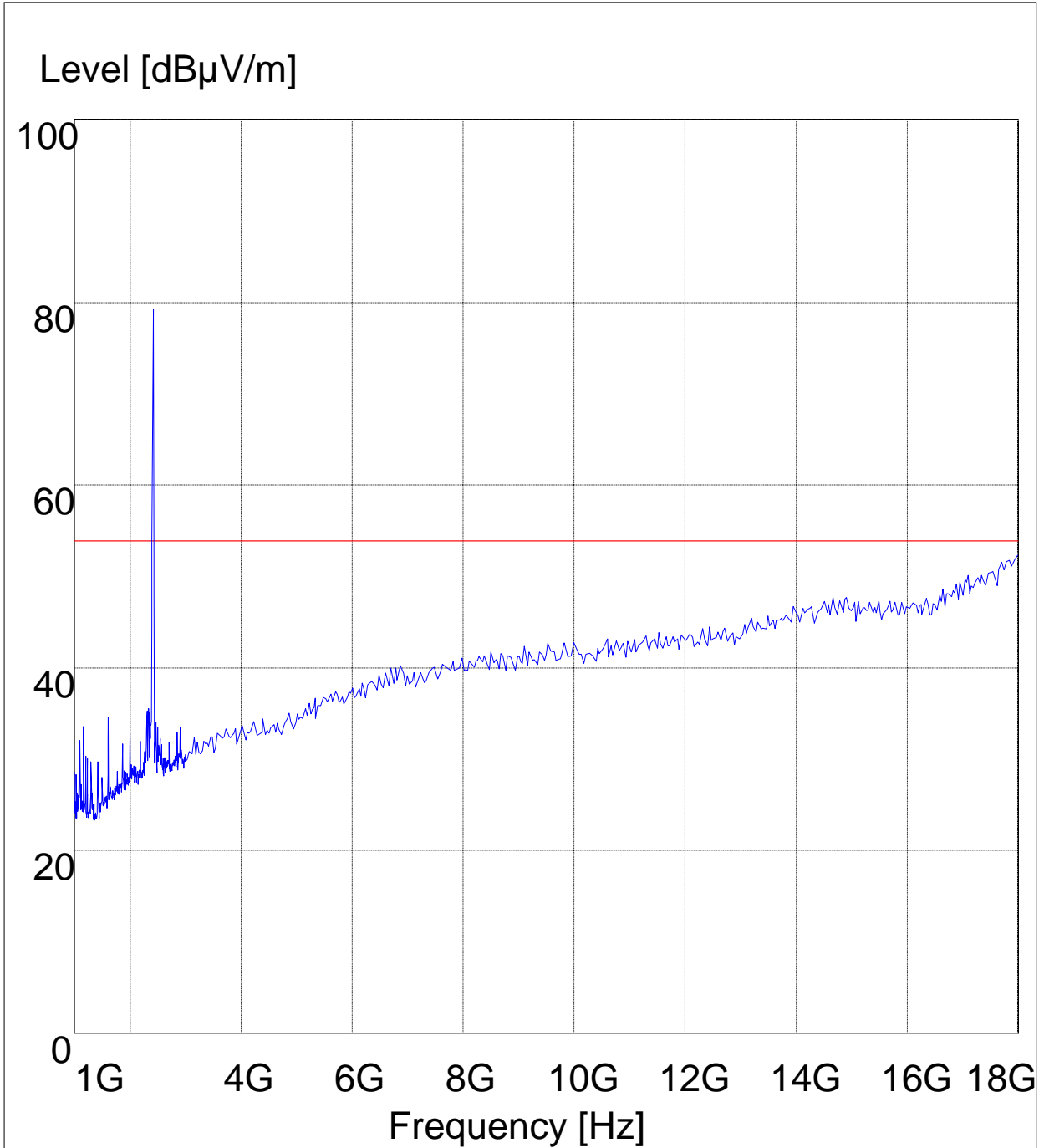
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Please refer to the following test plots for details:

**CH01 at 6Mbps: Horizontal**

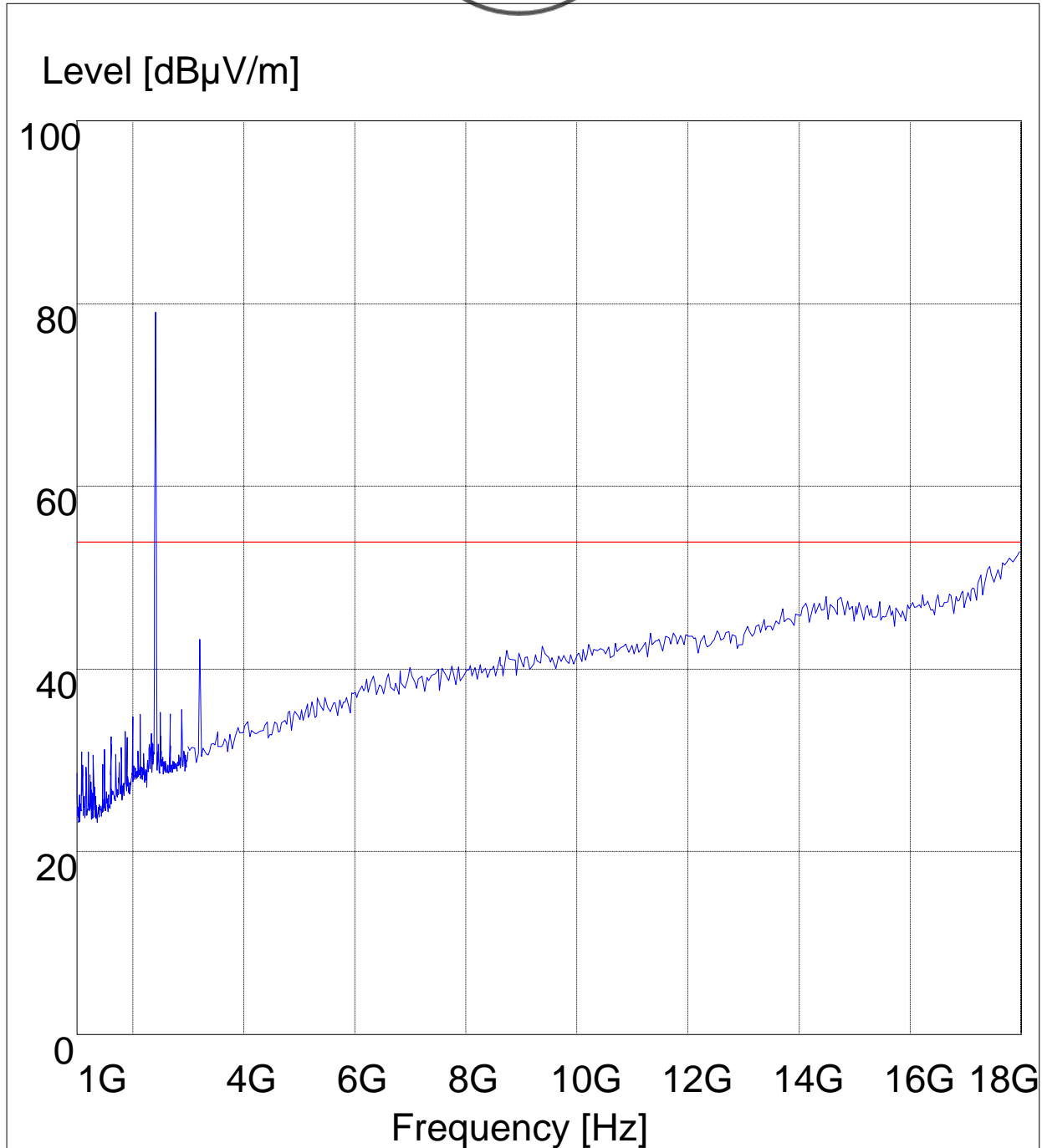


— MES W302P CH1 H Hor  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**CH01 at 6Mbps: Vertical**

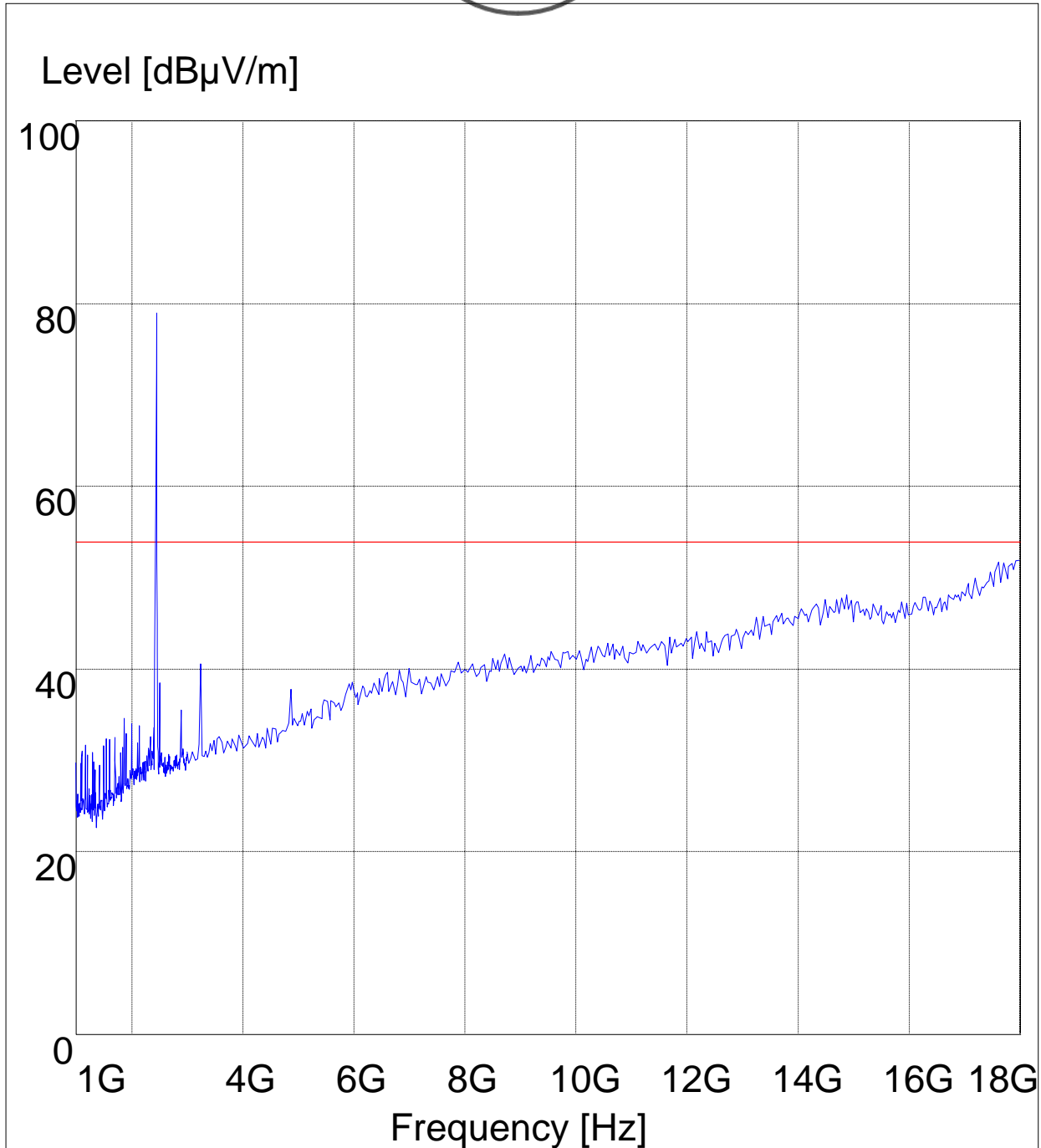


— MES W302P CH1 H Ver  
— LIM FCC ClassB F QP      FCC ClassB, field strength

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**CH06 at 6Mbps: Vertical**

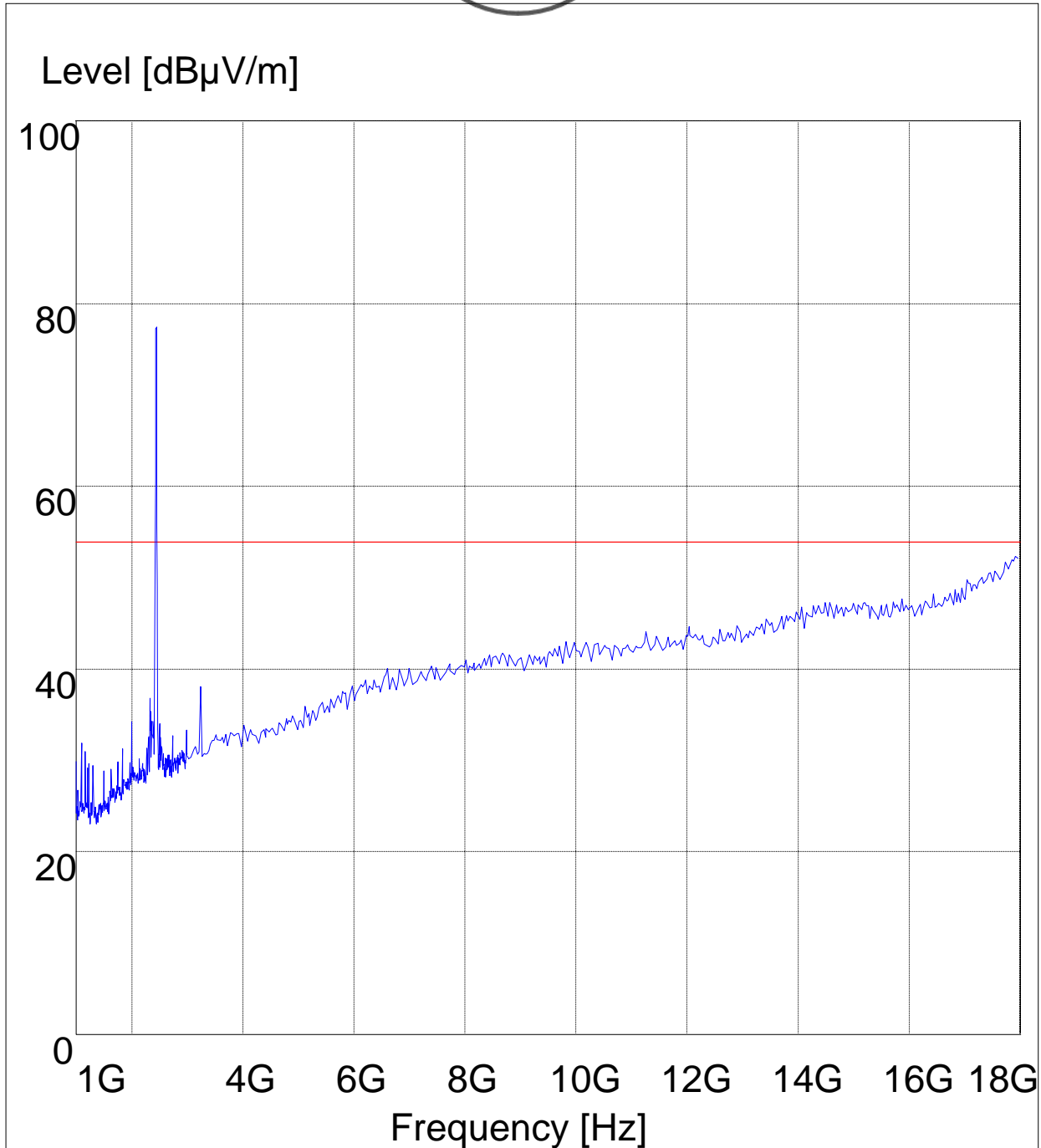


— MES W302P CH6 H Ver  
— LIM FCC ClassB F QP      FCC ClassB, field strength

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**CH06 at 6Mbps: Horizontal**

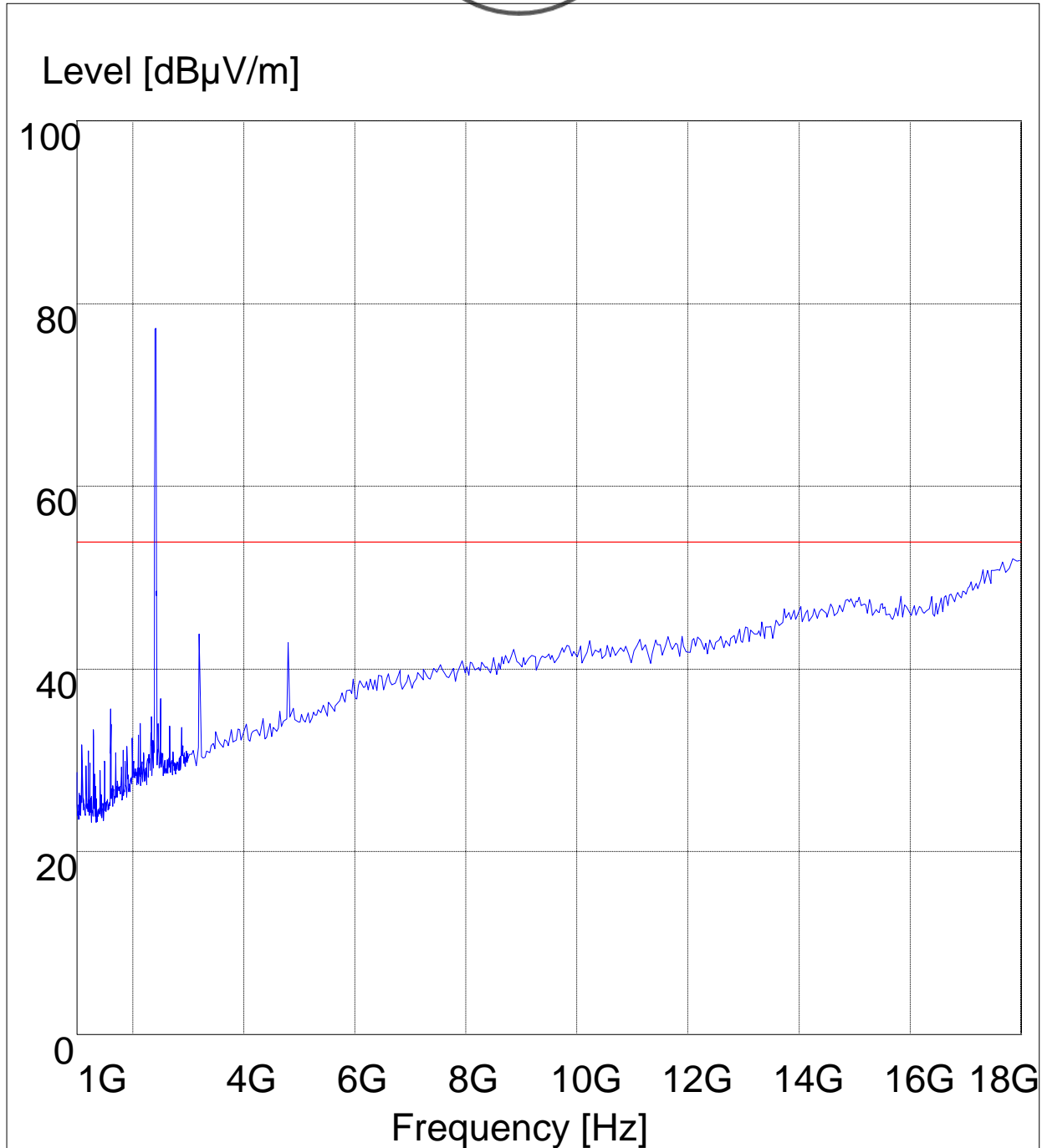


— MES W302P CH6 H Hor  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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CH11 at 6Mbps: Vertical

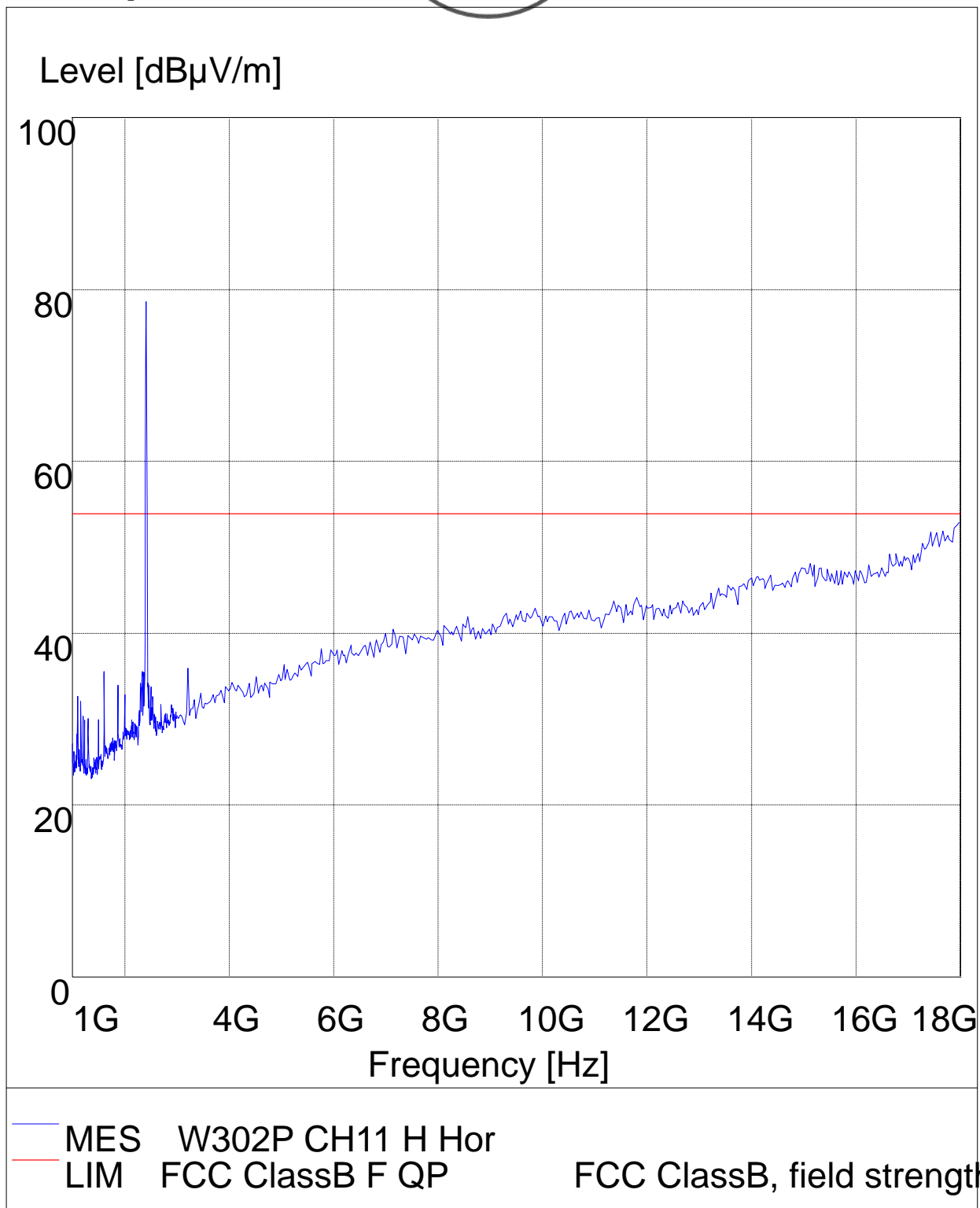


— MES W302P CH11 H Ver  
— LIM FCC ClassB F QP      FCC ClassB, field strength

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**CH11at 6Mbps: Horizontal**

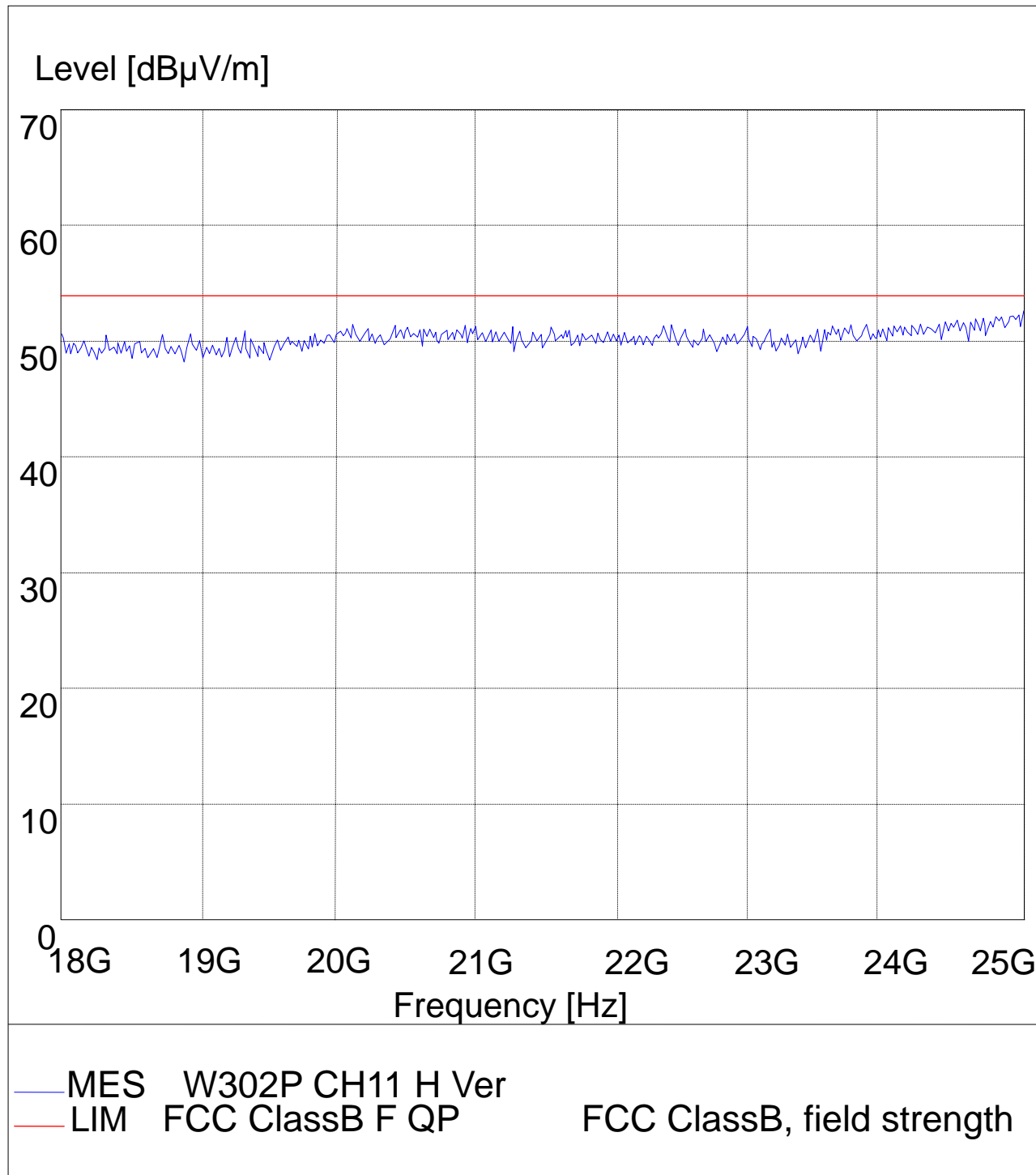


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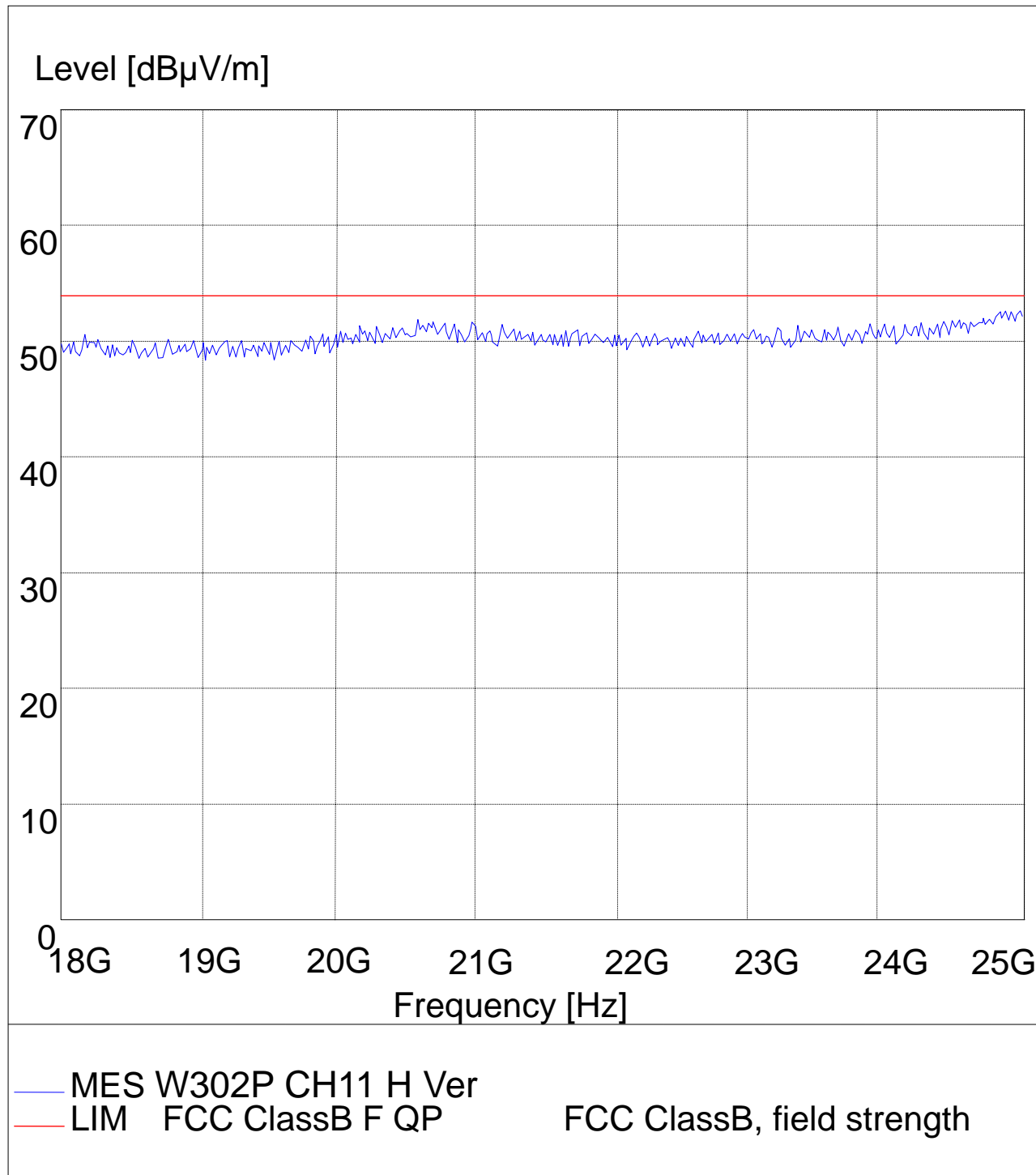
18-25G  
CH11 6M Horizontal



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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	97.2 (PK)/ 81.1(AV)	H	Fundamental Frequency
2412.00	101.3 (PK)/83.4 (AV)	V	
4824.00	55.7 (PK)/ 41.2(AV)	H	74(Peak)/ 54(AV)
4824.00	59.1 (PK)/ 45.1(AV)	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)
3216	52.3 (PK)/ 50.3(AV)	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 1Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	100.2(PK)/ 81.8AV)	H	Fundamental Frequency
2437.00	103.5(PK)/83.4 (AV)	V	
4874.00	58.7(PK)/46.2 (AV)	V	74(Peak)/ 54(AV)
4874.00	55.8(PK)/42.3 (AV)	H	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)
3216	48.6(PK)/47.0 (AV)	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

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3. For 802.11b mode 11Mbps
4. test results are for the worst case condition

**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	101.2(PK/81.2AV)	H	Fundamental Frequency
2462.00	104.6(PK)/85.0AV)	V	
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)
3216	49.0/47.7	V	74(Peak)/ 54(AV)

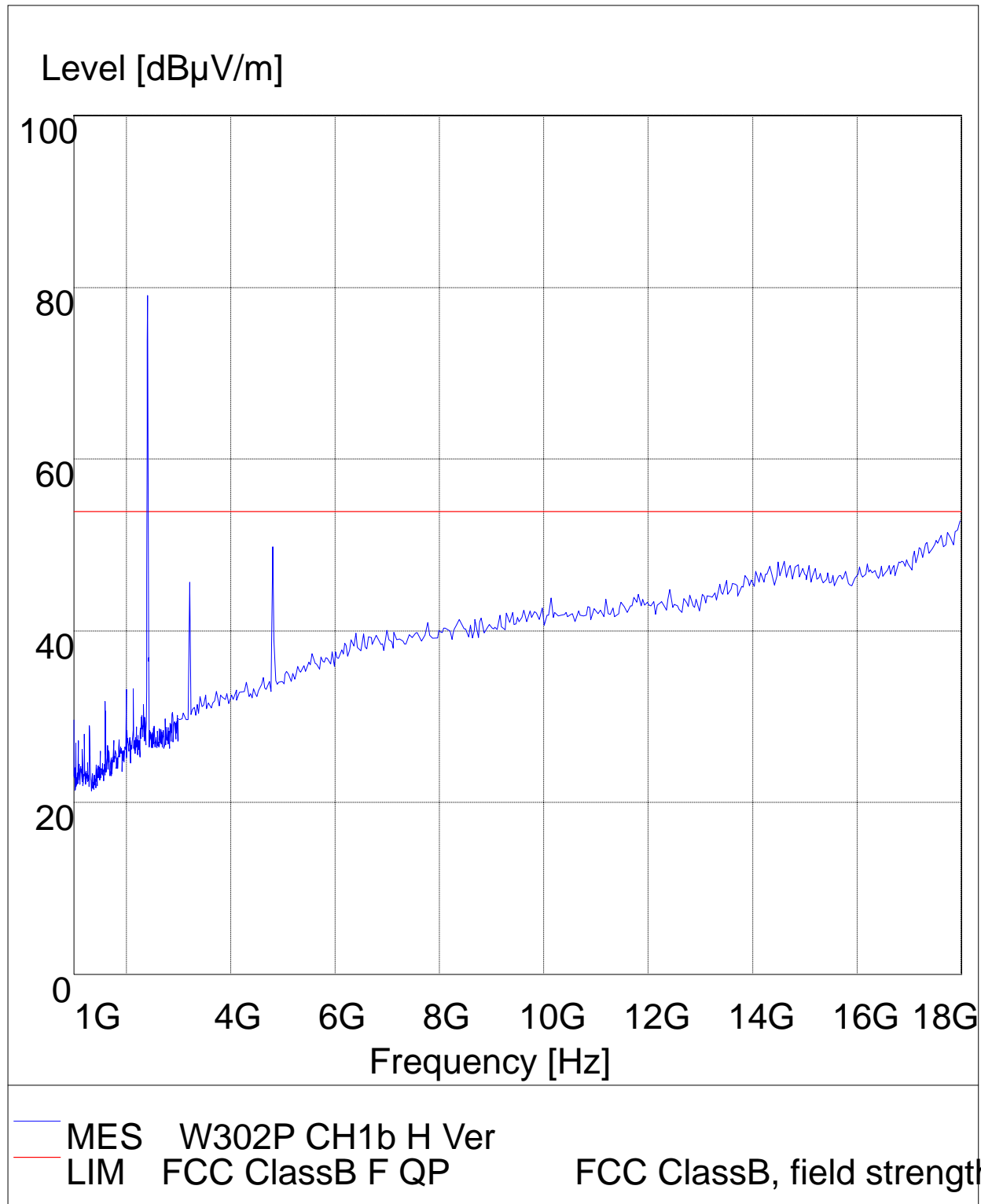
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured
  3. For 802.11b mode at 11Mbps
  4. Test results are for the worst case condition

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Please refer to the following test plots for details:

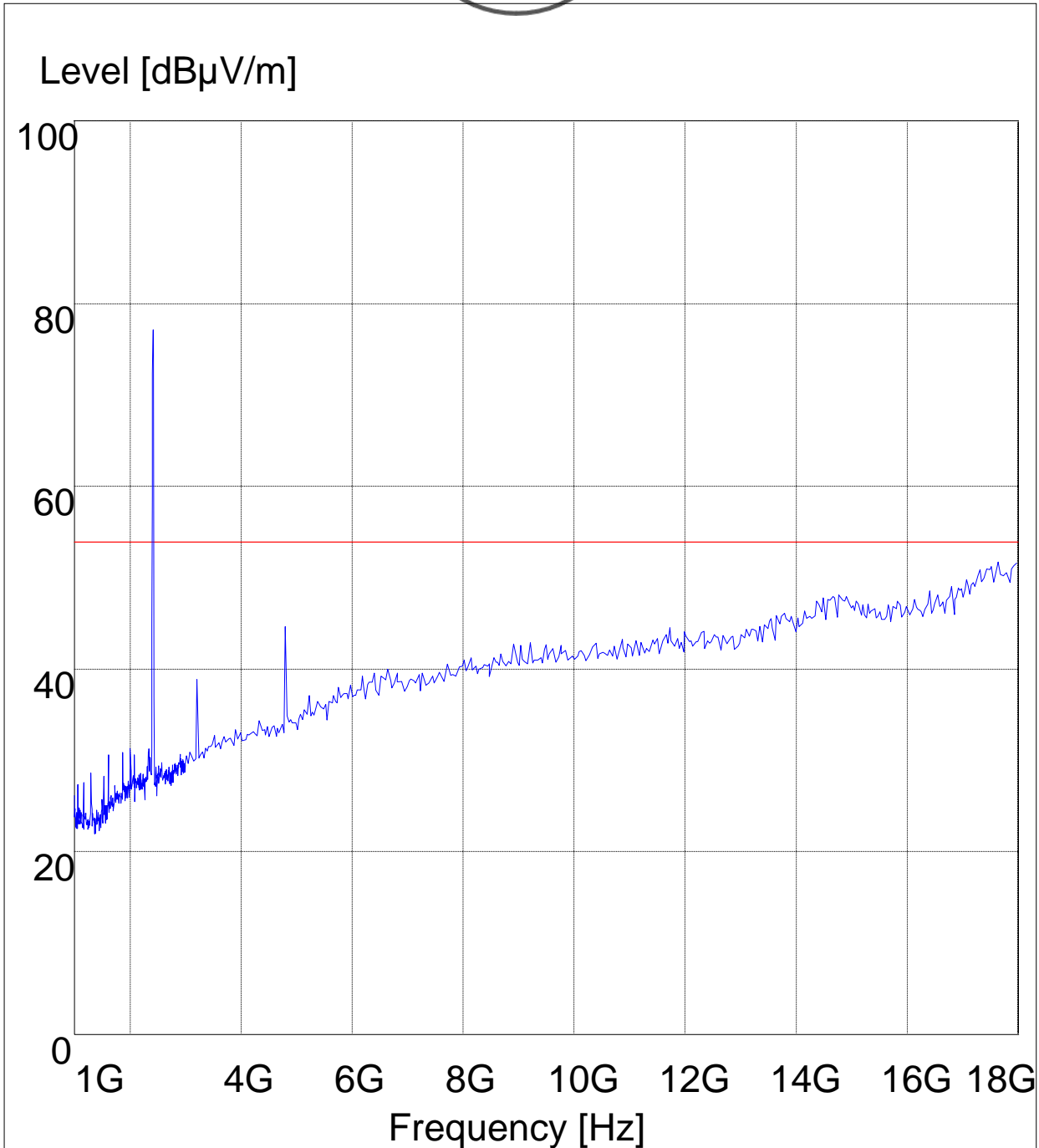
**CH01 at 11Mbps: Vertical**



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**CH01 at 11Mbps: Horizontal**

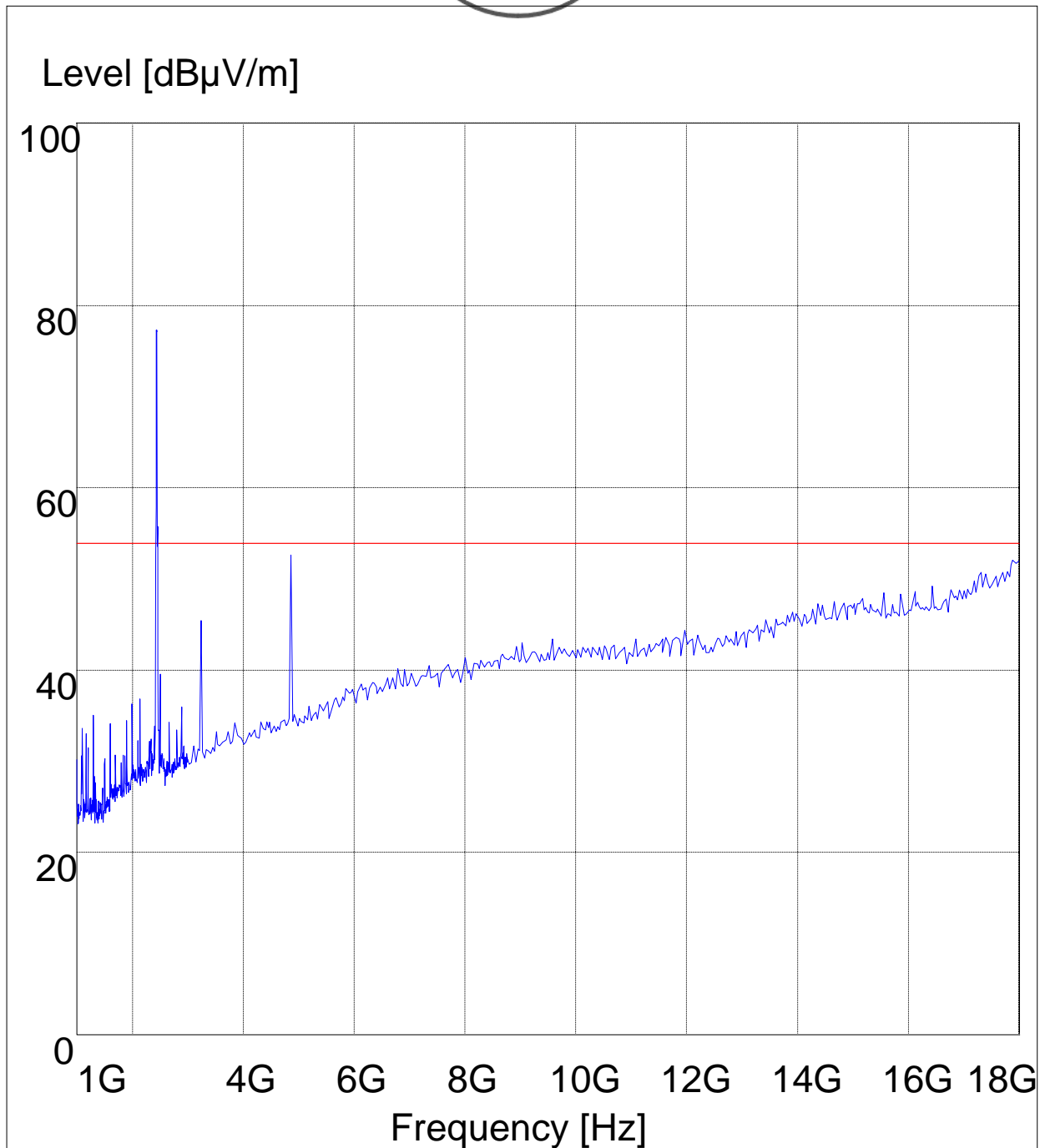


— MES W302P CH1b H Hor  
— LIM FCC ClassB F QP      FCC ClassB, field strength

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**CH06 at 11Mbps: Vertical**

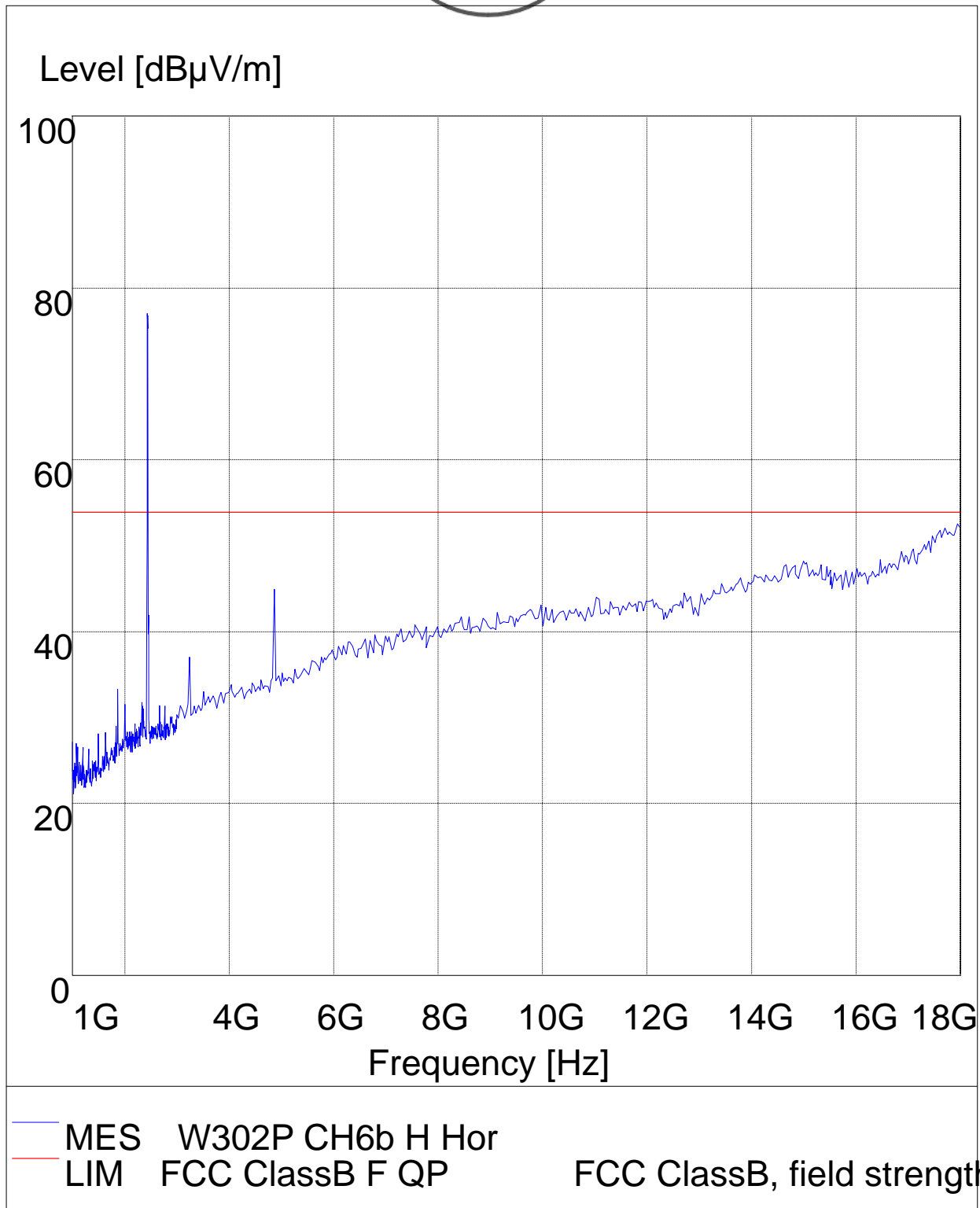


— MES W302P CH6b H Ver  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**CH06 at 11Mbps: Horizontal**

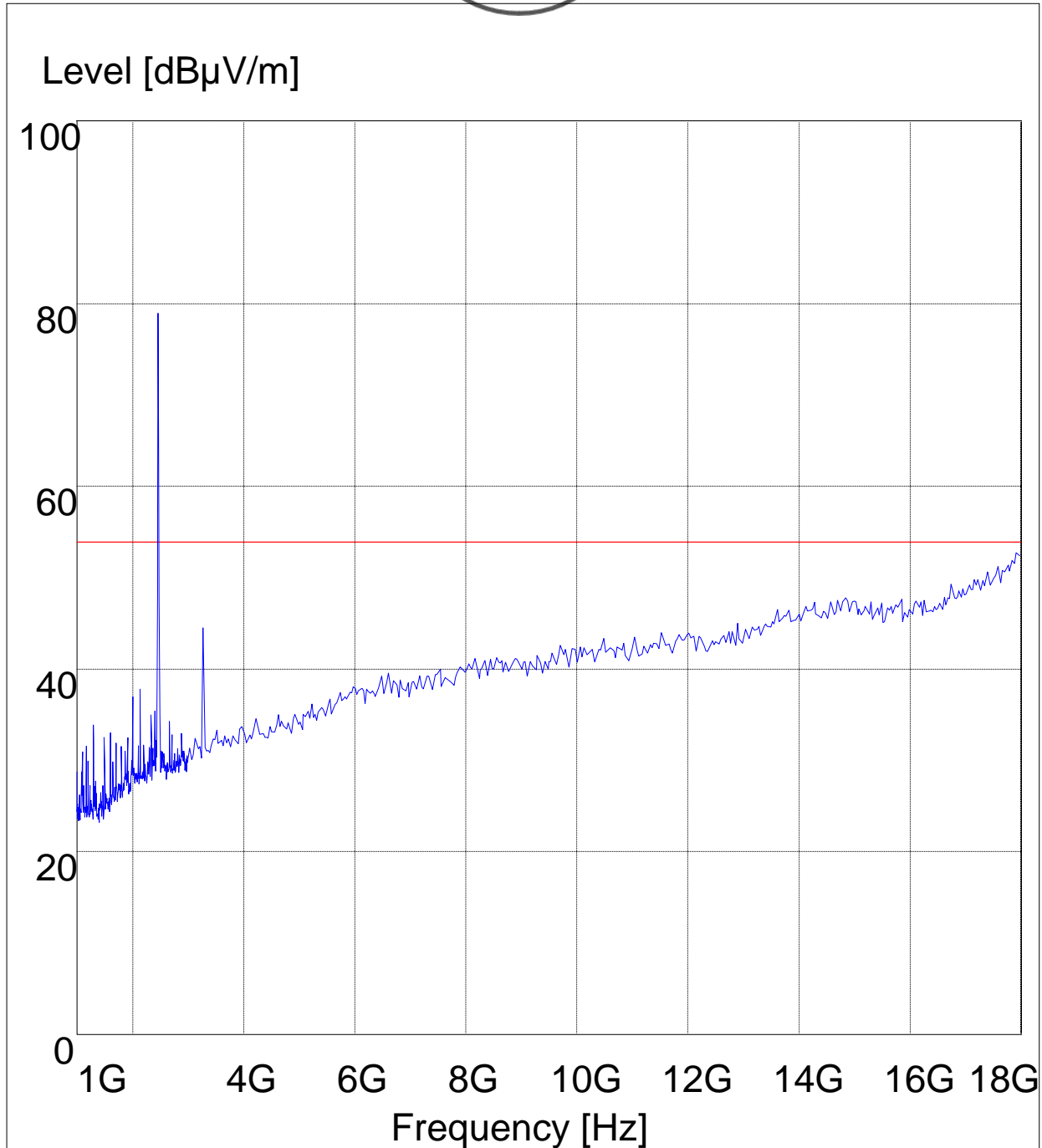


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CH11 at 11Mbps: Vertical

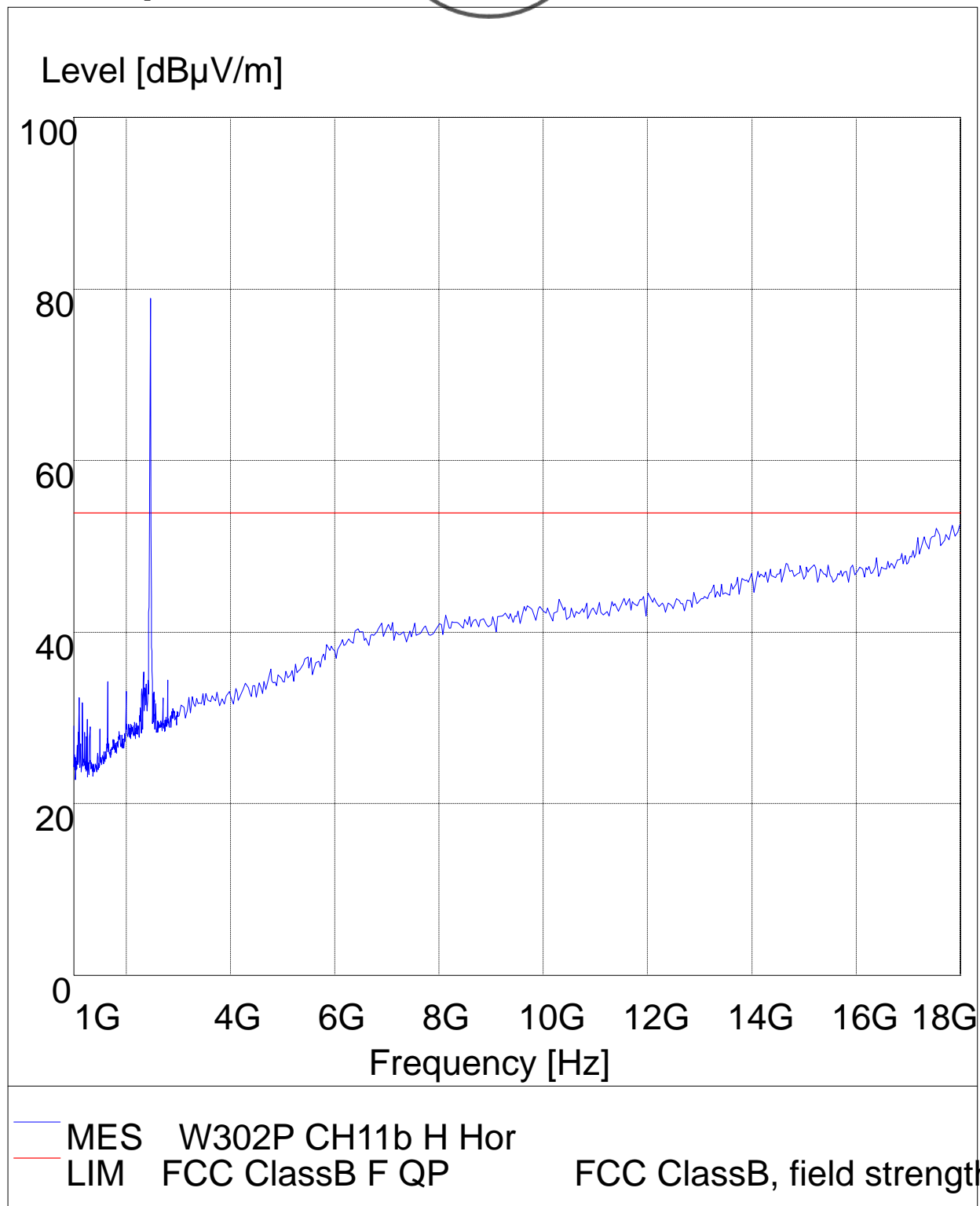


— MES W302P CH11b H Ver  
— LIM FCC ClassB F QP      FCC ClassB, field strength

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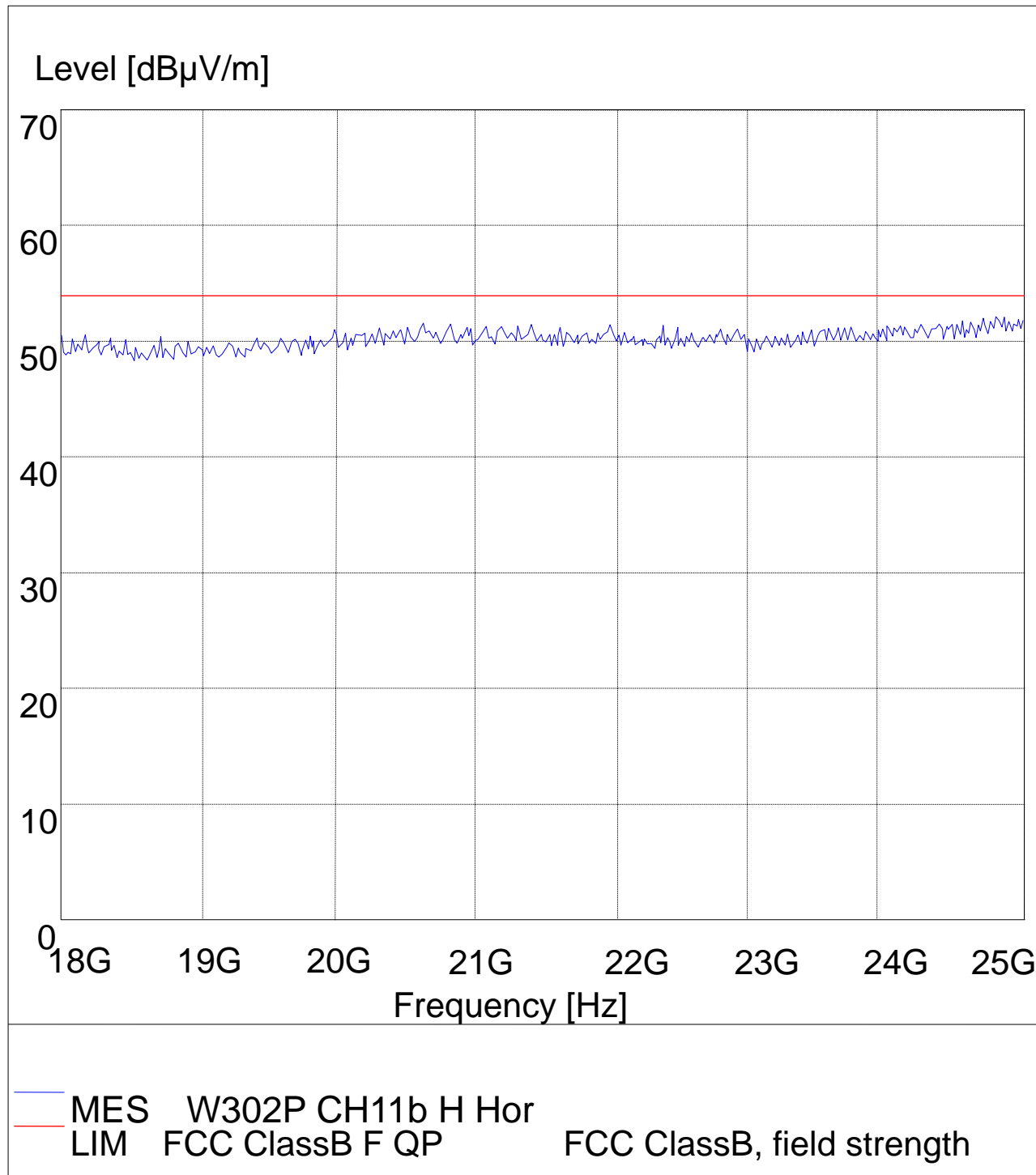
**CH11 at 11Mbps: Horizontal**



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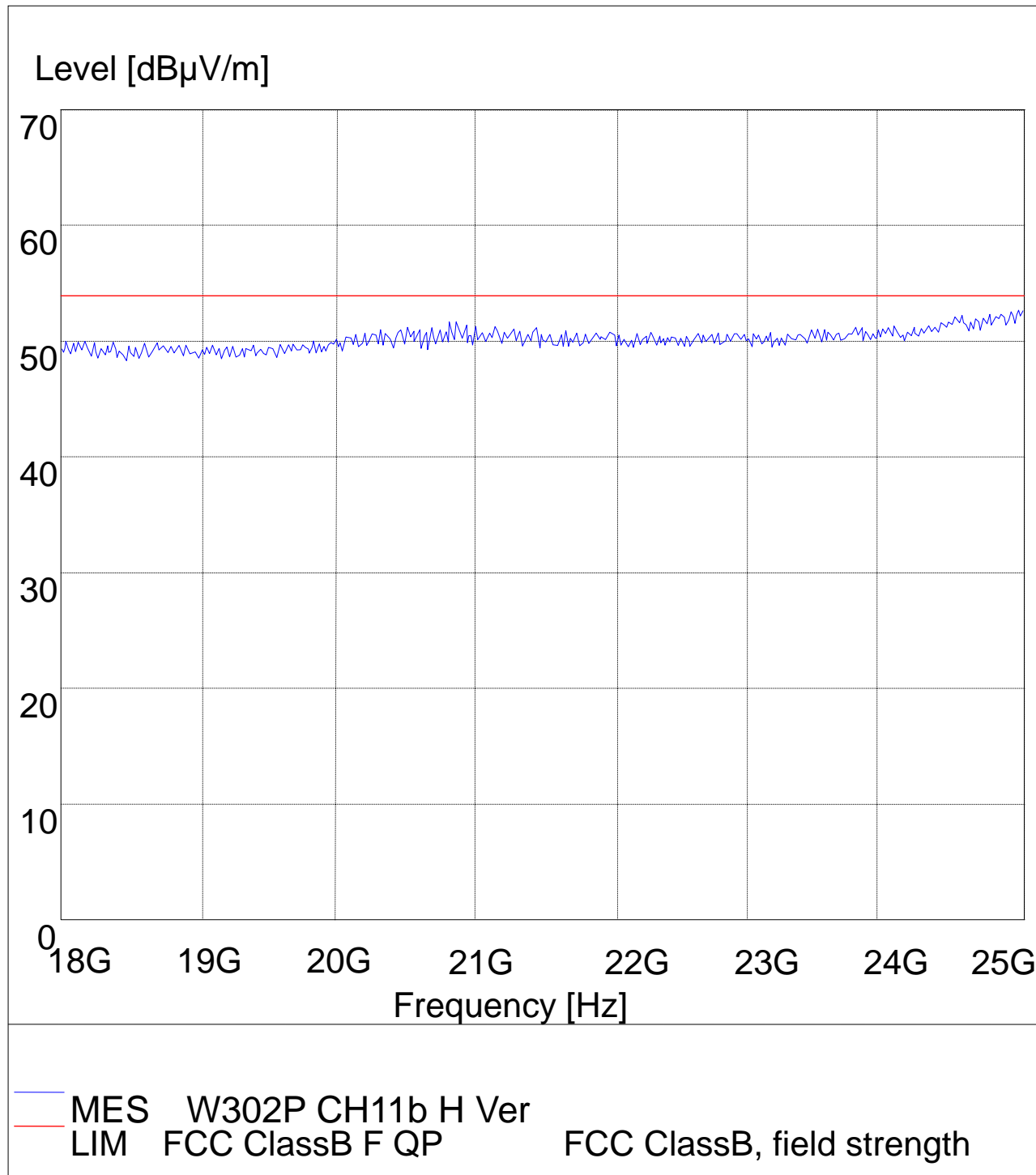
**18-25G**  
**CH11 11M Horizontal**



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**18-25G**  
**CH11 11M Vertical**



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**Operation Mode: Transmitting & Receiving under CH01 at 130Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	96.1 (PK)/ 80.3(AV)	H	Fundamental Frequency
2412.00	102.3(PK)/85.3 (AV)	V	
4824.00	48.1(PK)/ 35.7(AV)	H	74(Peak)/ 54(AV)
4824.00	54.2 (PK)/ 42.6(AV)	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)
3216	52.8 (PK)/ 50.9(AV)	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 802.11n HT20 mode 130Mbps  
 4. Test results are for the worst case condition

**Operation Mode: Transmitting & Receiving under CH06 at 130Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	101.3(PK)/ 84.6(AV)	H	Fundamental Frequency
2437.00	106.7(PK)/90.1 (AV)	V	
4874.00	54.8(PK)/42.4 (AV)	V	74(Peak)/ 54(AV)
4874.00	50.5(PK)/37.8 (AV)	H	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)
3216	49.3(PK)/47.8 (AV)	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

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3. For 802.11n HT20 mode 130Mbps
4. test results are for the worst case condition

**Operation Mode: Transmitting & Receiving under CH11 at 130Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	99.6(PK)/82.5(AV)	H	Fundamental Frequency
2462.00	102.8(PK)/84.2(AV)	V	
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)
24620	--	H/V	74(Peak)/ 54(AV)
3216	50.1/48.5	V	74(Peak)/ 54(AV)

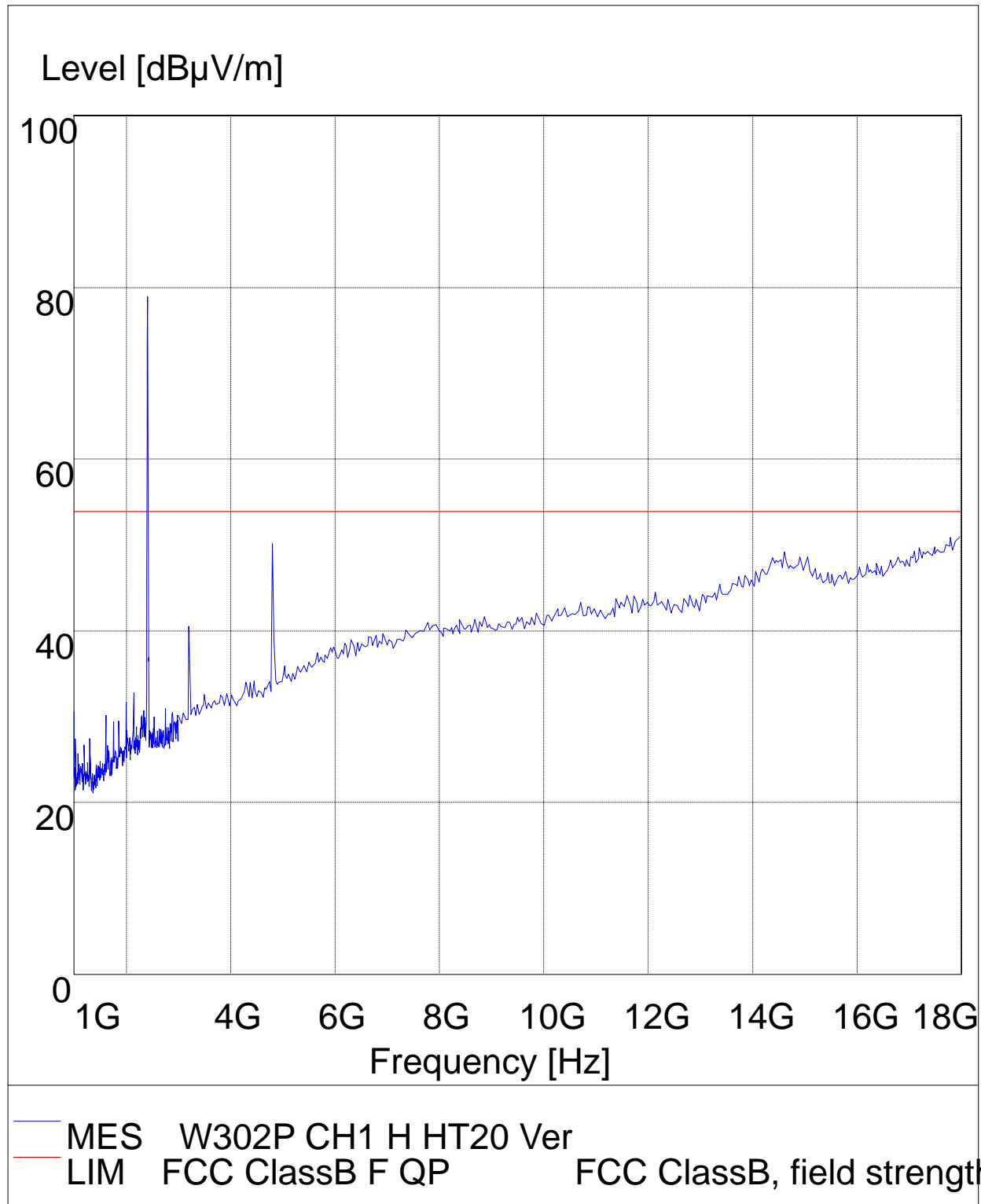
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured
  3. For 802.11n HT20mode at 130Mbps
  4. Test results are for the worst case condition

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Please refer to the following test plots for details:

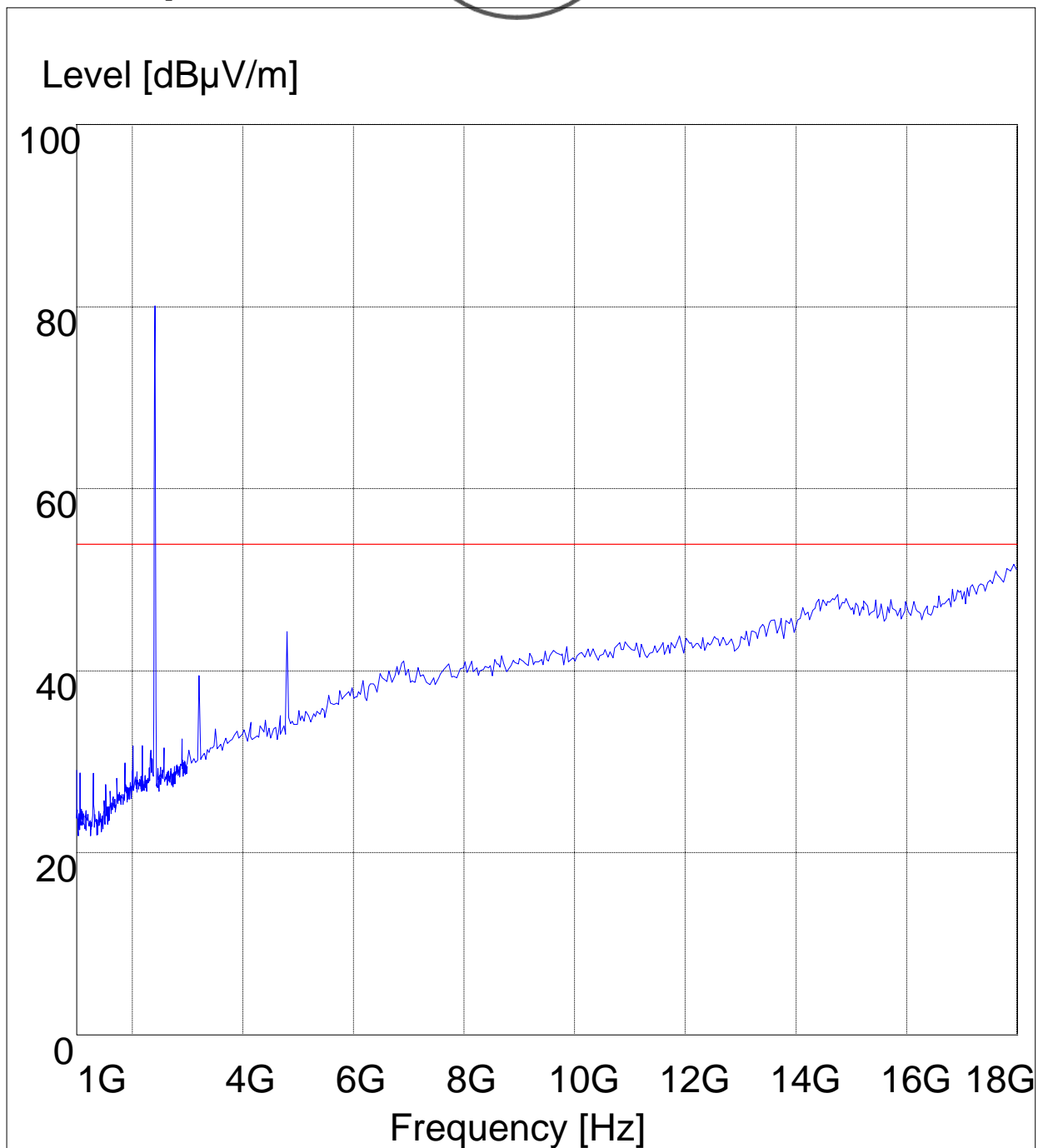
**CH01 at 130Mbps: Vertical**



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**CH01 at 130Mbps: Horizontal**



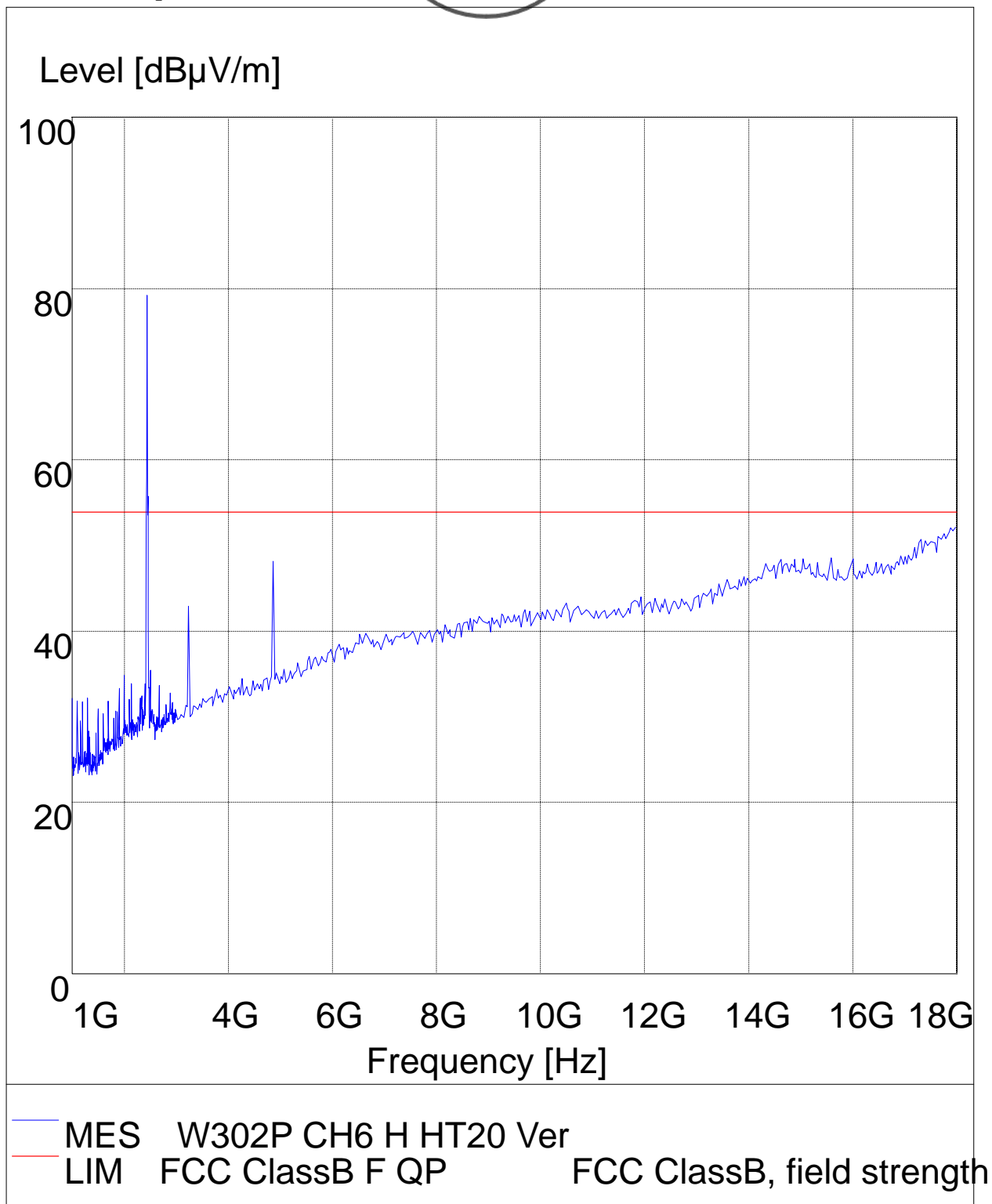
— MES W302P CH1 H HT20 Hor  
— LIM FCC ClassB F QP FCC ClassB, field strength

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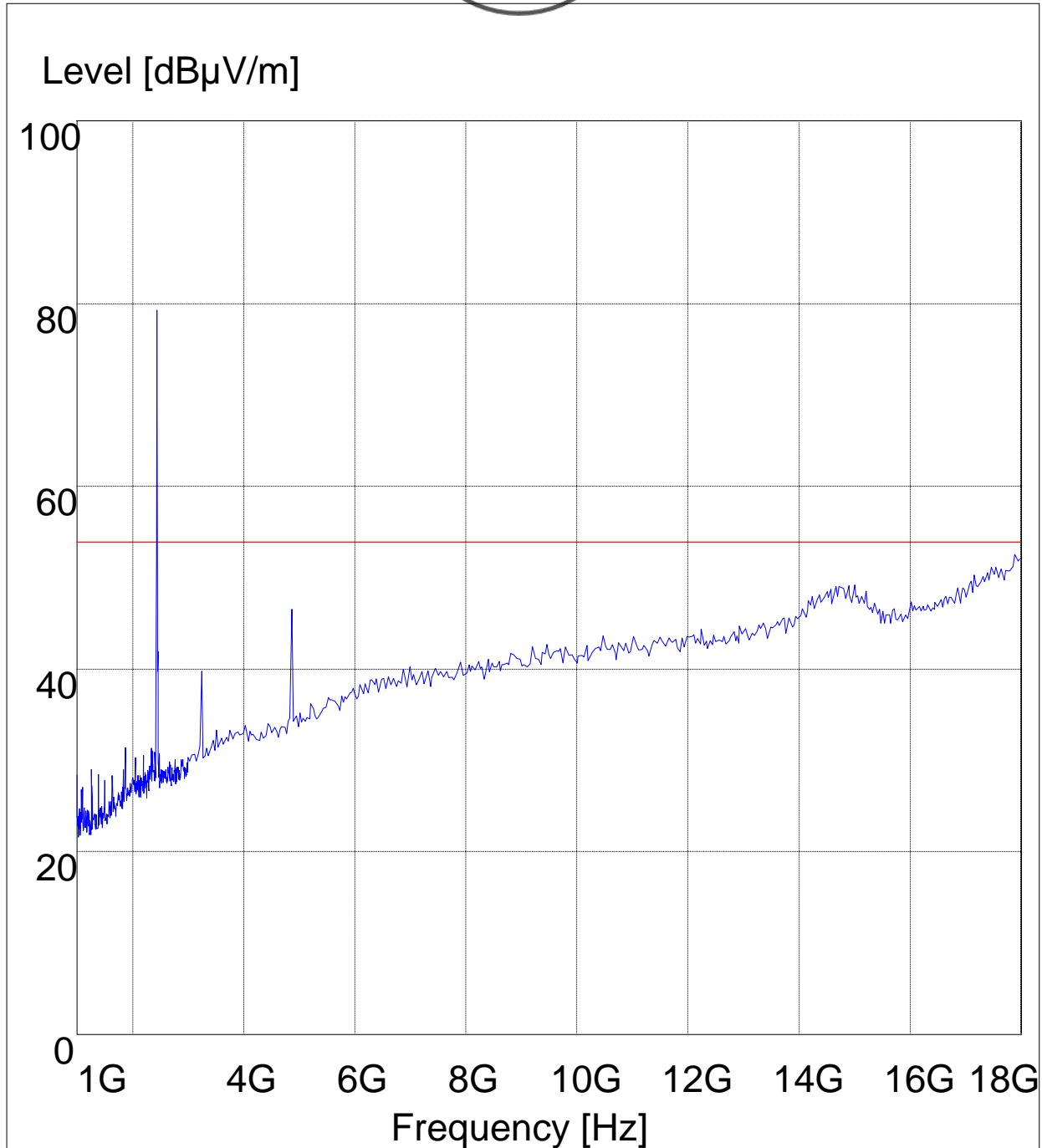
CH06 at 130Mbps: Vertical



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**CH06 at 130Mbps: Horizontal**

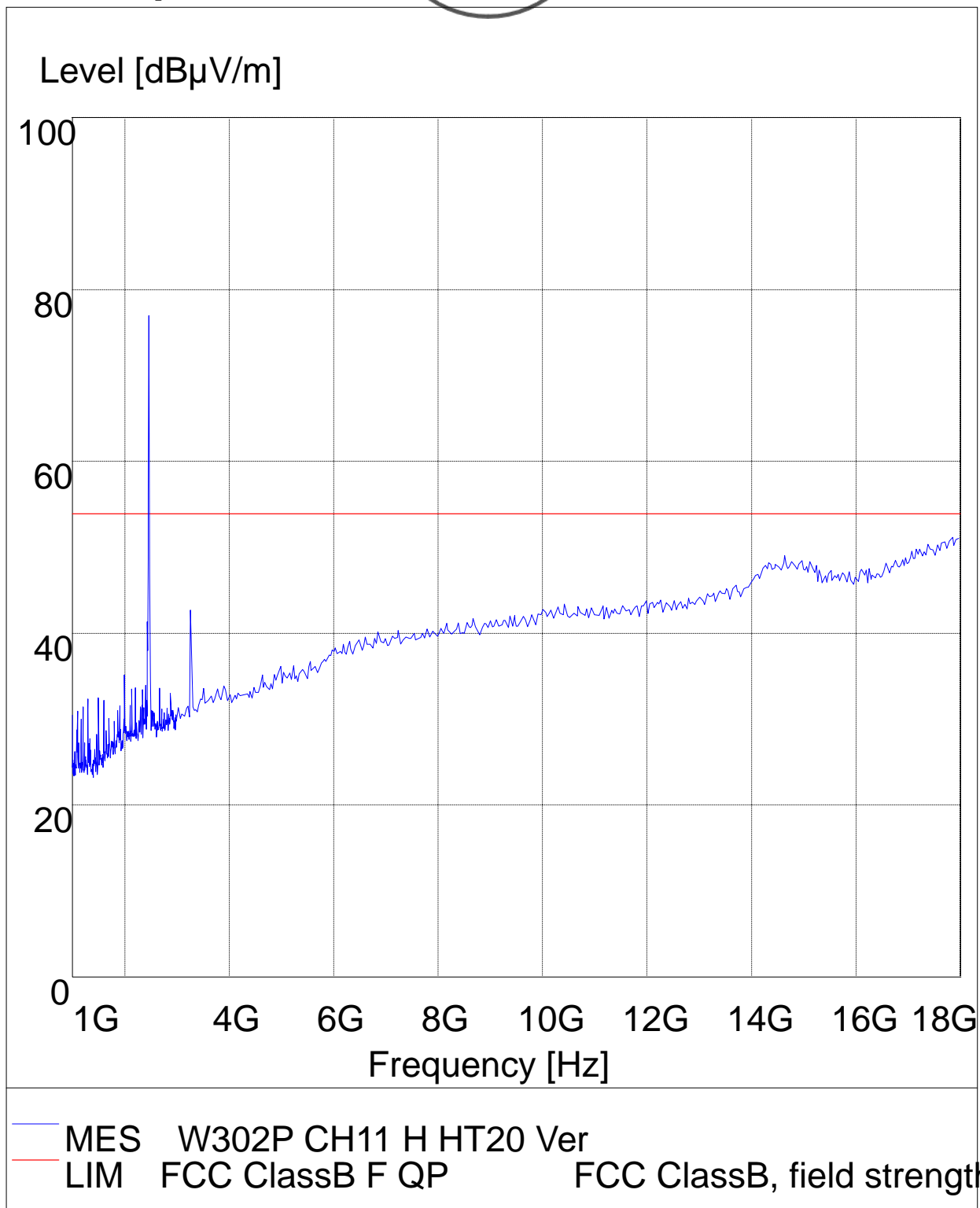


— MES W302P CH6 H HT20 Hor  
— LIM FCC ClassB F QP FCC ClassB, field strength

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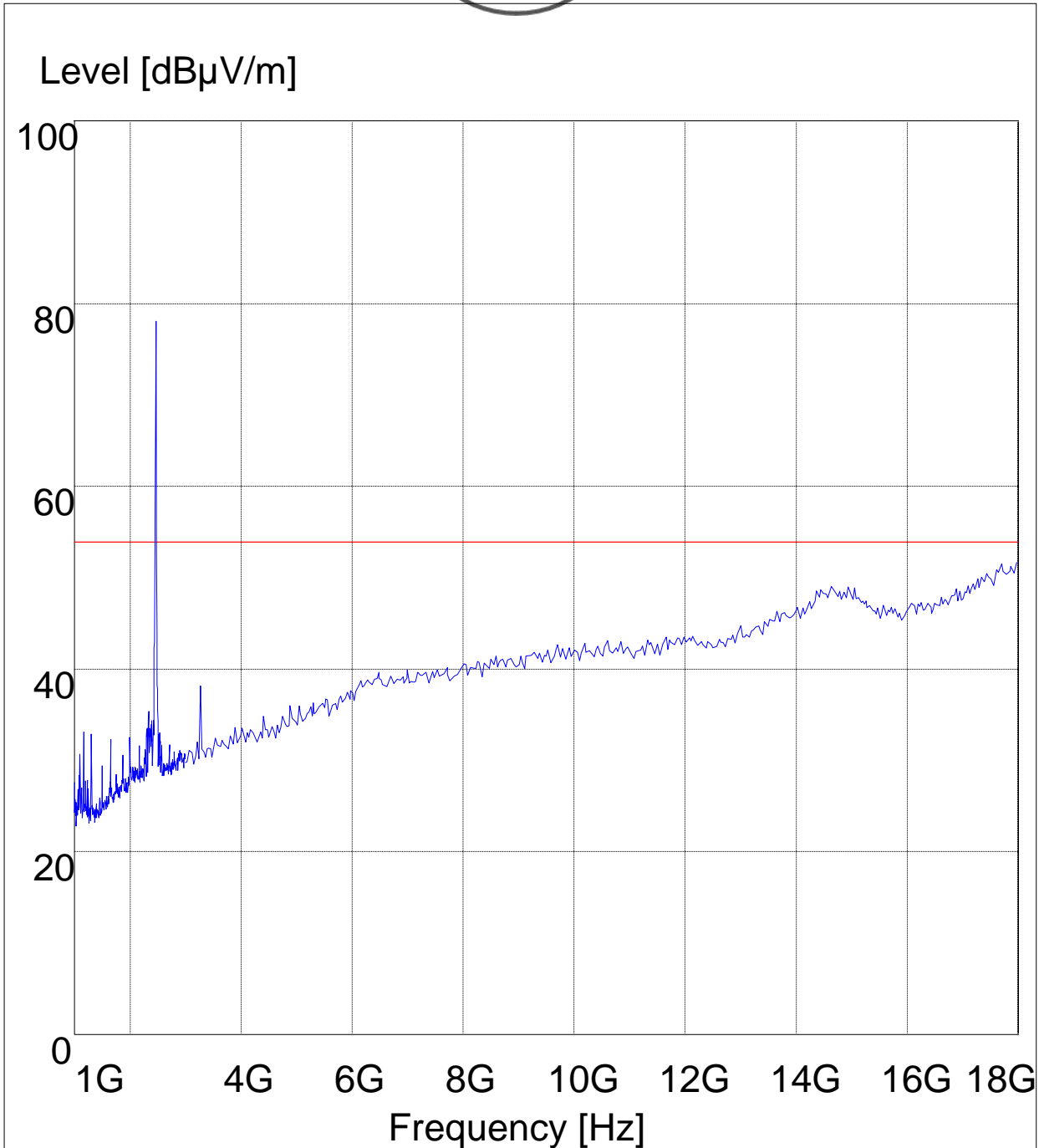
CH11 at 130Mbps: Vertical



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**CH11 at 130Mbps: Horizontal**

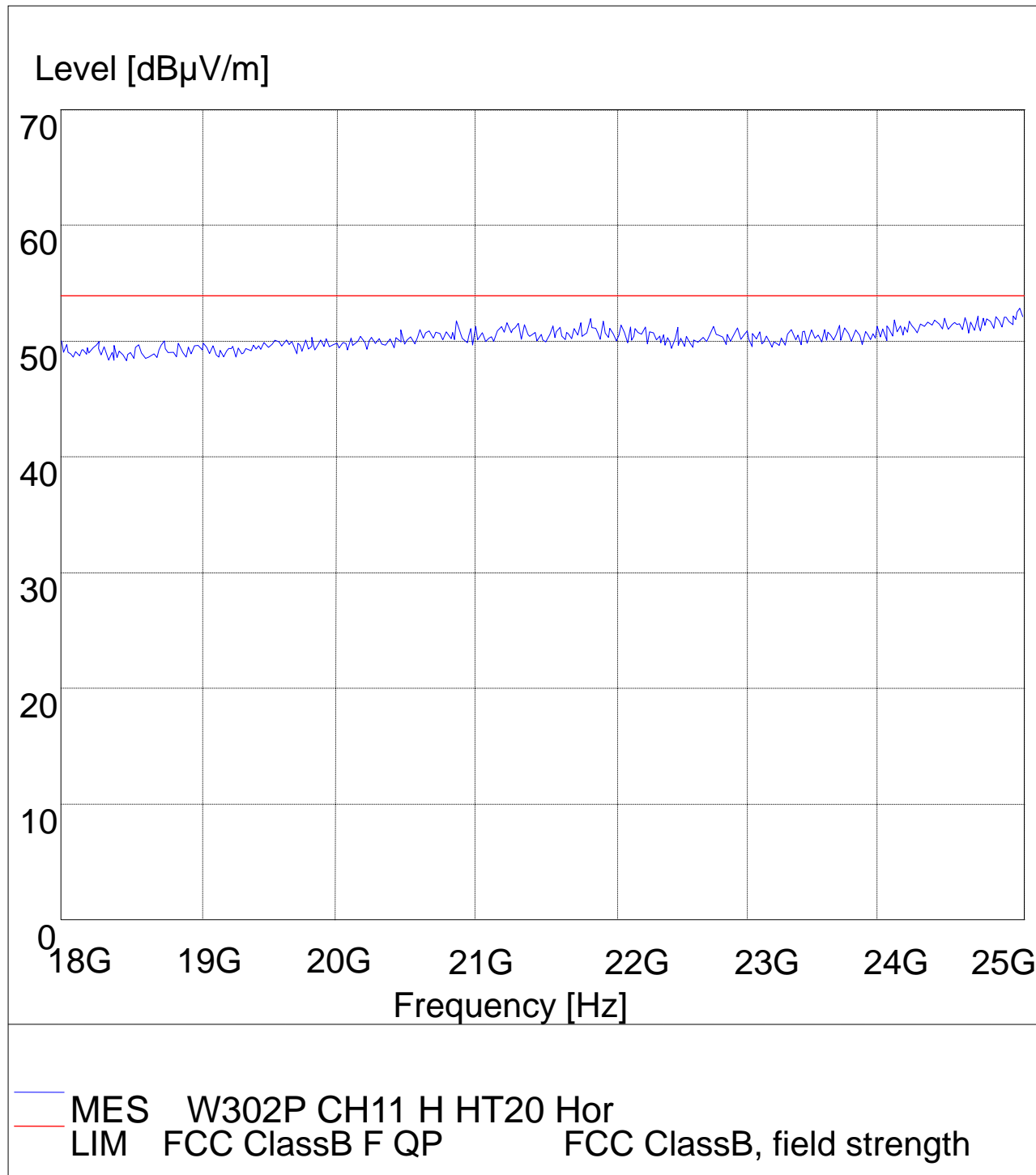


— MES W302P CH11 H HT20 Hor  
— LIM FCC ClassB F QP FCC ClassB, field strength

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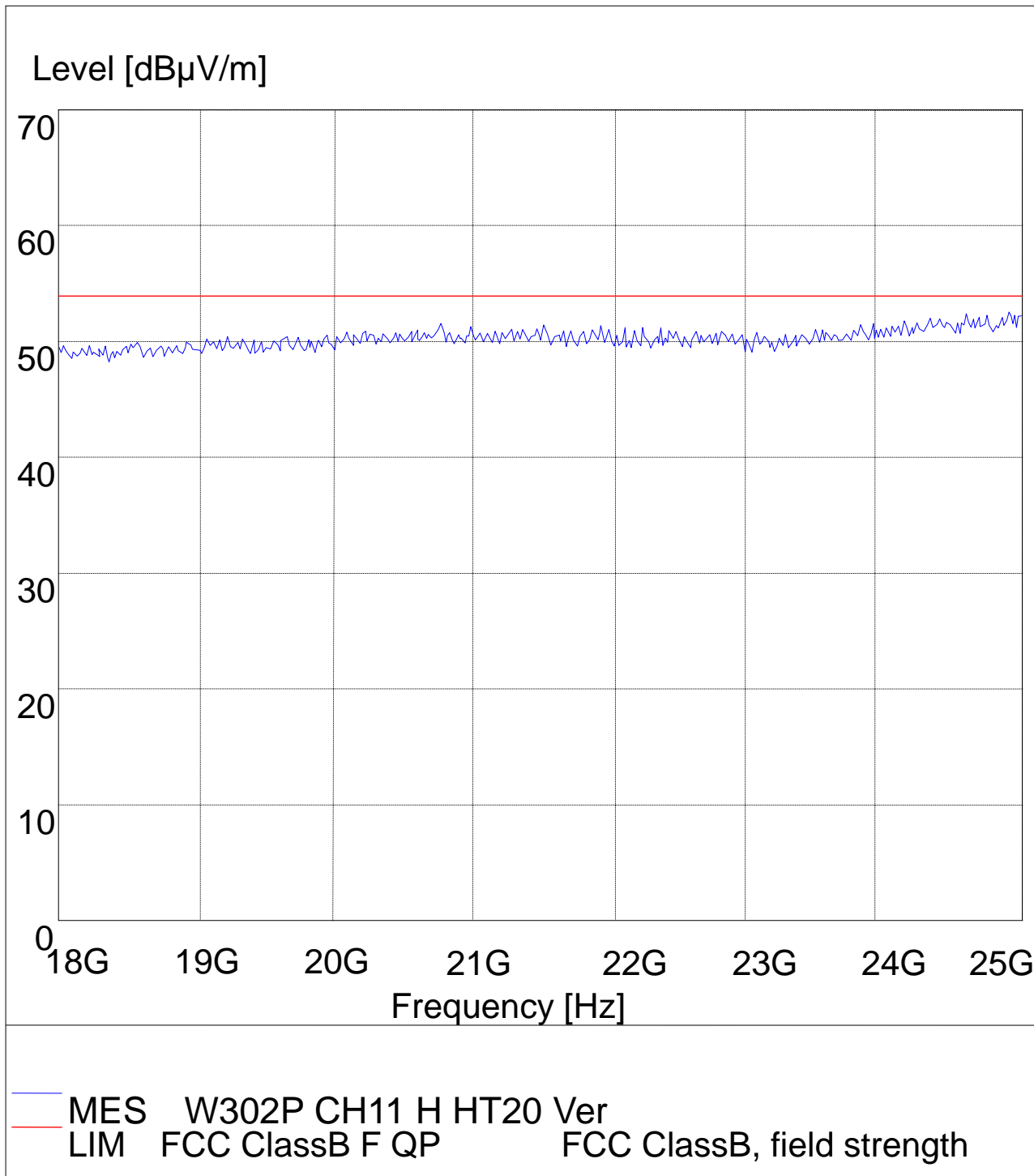
18-25G  
CH11 130M Horizontal



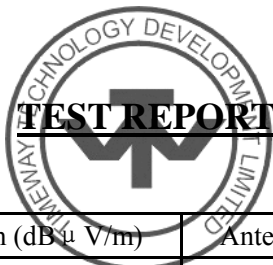
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18-25G  
CH11 6M Vertical



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Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2422.00	96.5(PK) /79.7 (AV)	H	Fundamental Frequency
2422.00	99.6(PK) /81.5 (AV)	V	
4844.00	--	H/V	74(Peak)/ 54(AV)
7266.00	--	H/V	74(Peak)/ 54(AV)
9688.00	--	H/V	74(Peak)/ 54(AV)
12110	--	H/V	74(Peak)/ 54(AV)
14532	--	H/V	74(Peak)/ 54(AV)
16954	--	H/V	74(Peak)/ 54(AV)
19376	--	H/V	74(Peak)/ 54(AV)
21798	--	H/V	74(Peak)/ 54(AV)
24220	--	H/V	74(Peak)/ 54(AV)
3216	46.8(PK) /45.2 (AV)	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 802.11n HT40 mode 130Mbps  
 4. Test results are for the worst case condition

**Operation Mode: Transmitting & Receiving under CH04 at 130Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	102.4 (PK) /84.7 (AV)	V	Fundamental Frequency
2437.00	98.8 (PK) /80.6 (AV)	H	
4874.00	48.7 (PK) /37.1 (AV)	V	74(Peak)/ 54(AV)
4874.00	--	H	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)
3216	46.7 (PK) /46.1 (AV)	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 802.11n HT40 mode 130Mbps  
 4. Test results are for the worst case condition

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**Operation Mode: Transmitting & Receiving under CH07 at 130Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2452.00	97.9 (PK) /79.4 (AV)	H	Fundamental Frequency
2452.00	100.5 (PK) /81.6 (AV)	V	
4904	48.0 (PK) /36.8 (AV)	V	74(Peak)/ 54(AV)
4904	--	H	74(Peak)/ 54(AV)
7356	--	H/V	74(Peak)/ 54(AV)
9808	--	H/V	74(Peak)/ 54(AV)
12260	--	H/V	74(Peak)/ 54(AV)
14712	--	H/V	74(Peak)/ 54(AV)
17164	--	H/V	74(Peak)/ 54(AV)
19616	--	H/V	74(Peak)/ 54(AV)
22068	--	H/V	74(Peak)/ 54(AV)
24520	--	H/V	74(Peak)/ 54(AV)
3216	47.3 (PK) /46.0 (AV)	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 802.11n HT40 mode 130Mbps  
 4. Test results are for the worst case condition

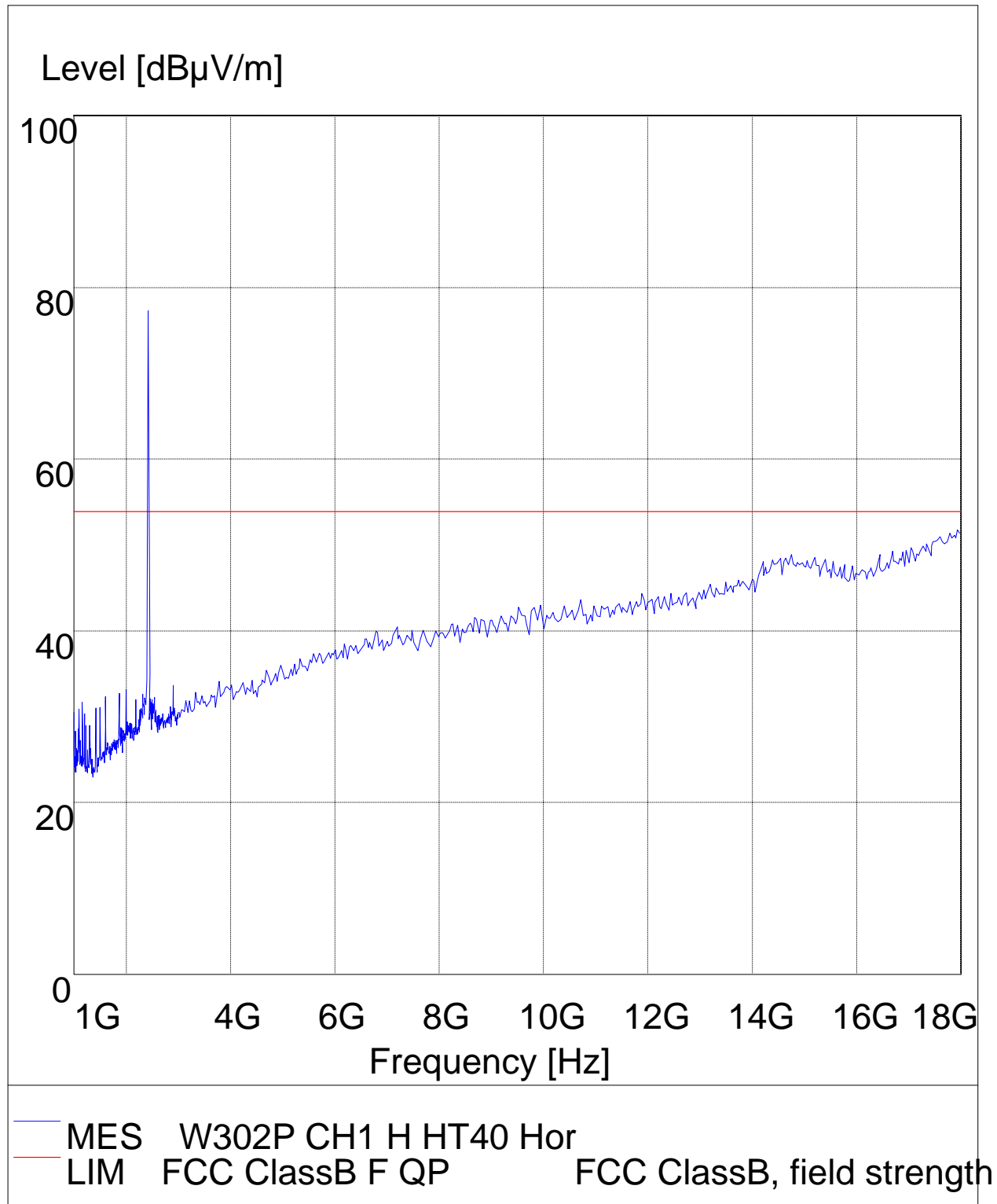
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Please refer to the following test plots for details:

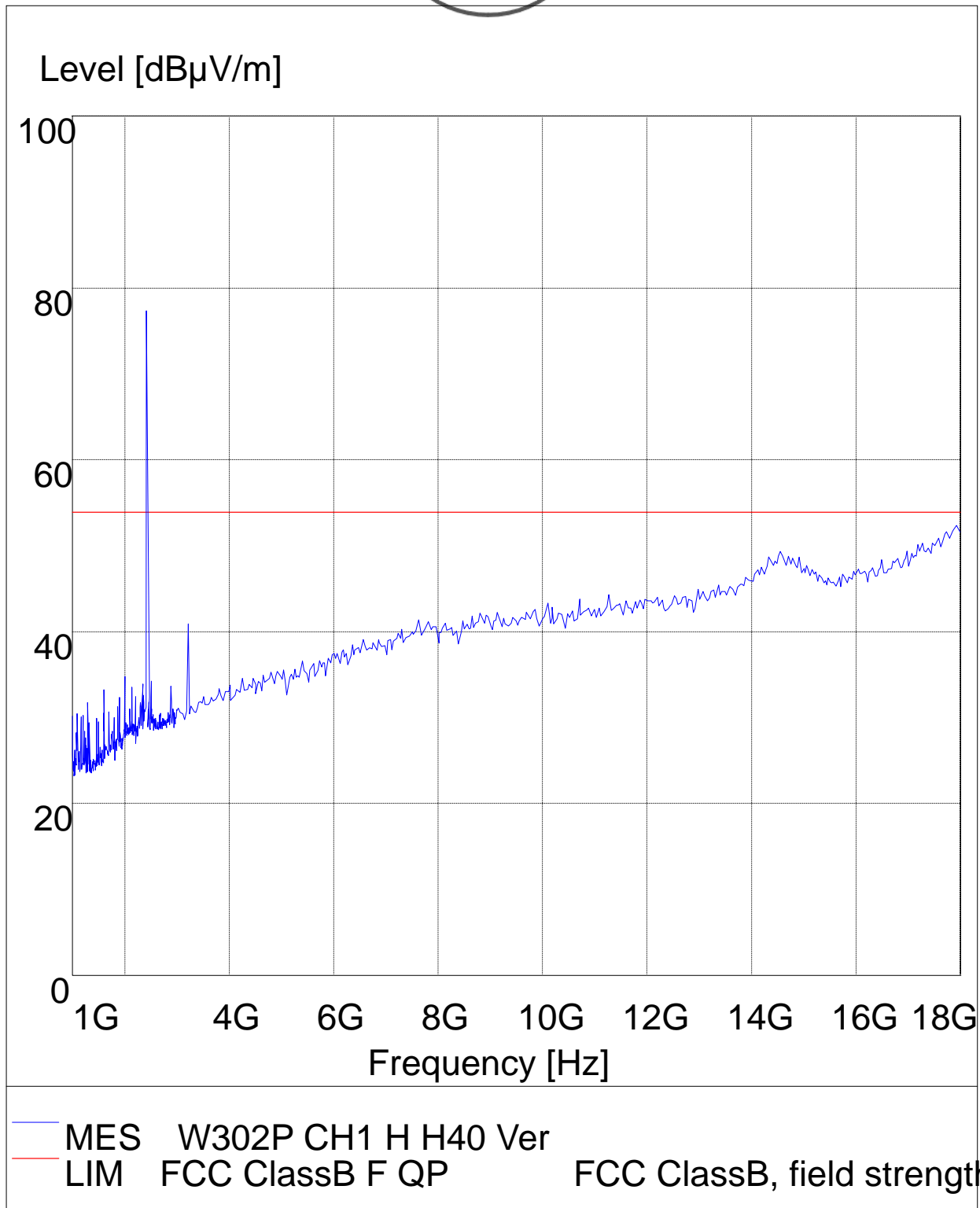
**CH01 at 130Mbps: Horizontal**



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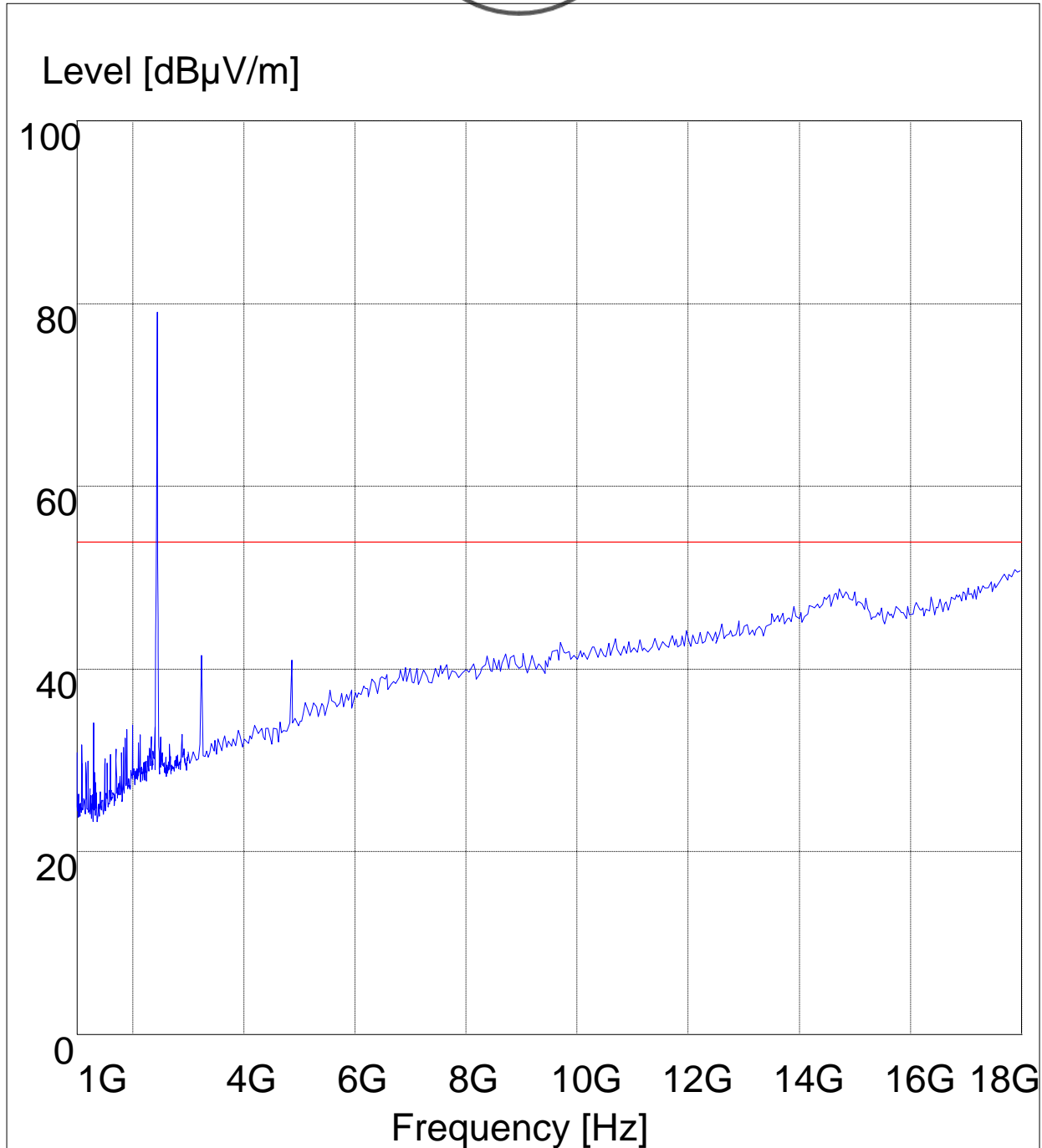
CH01 at 130Mbps: Vertical



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**CH04 at 130Mbps: Vertical**

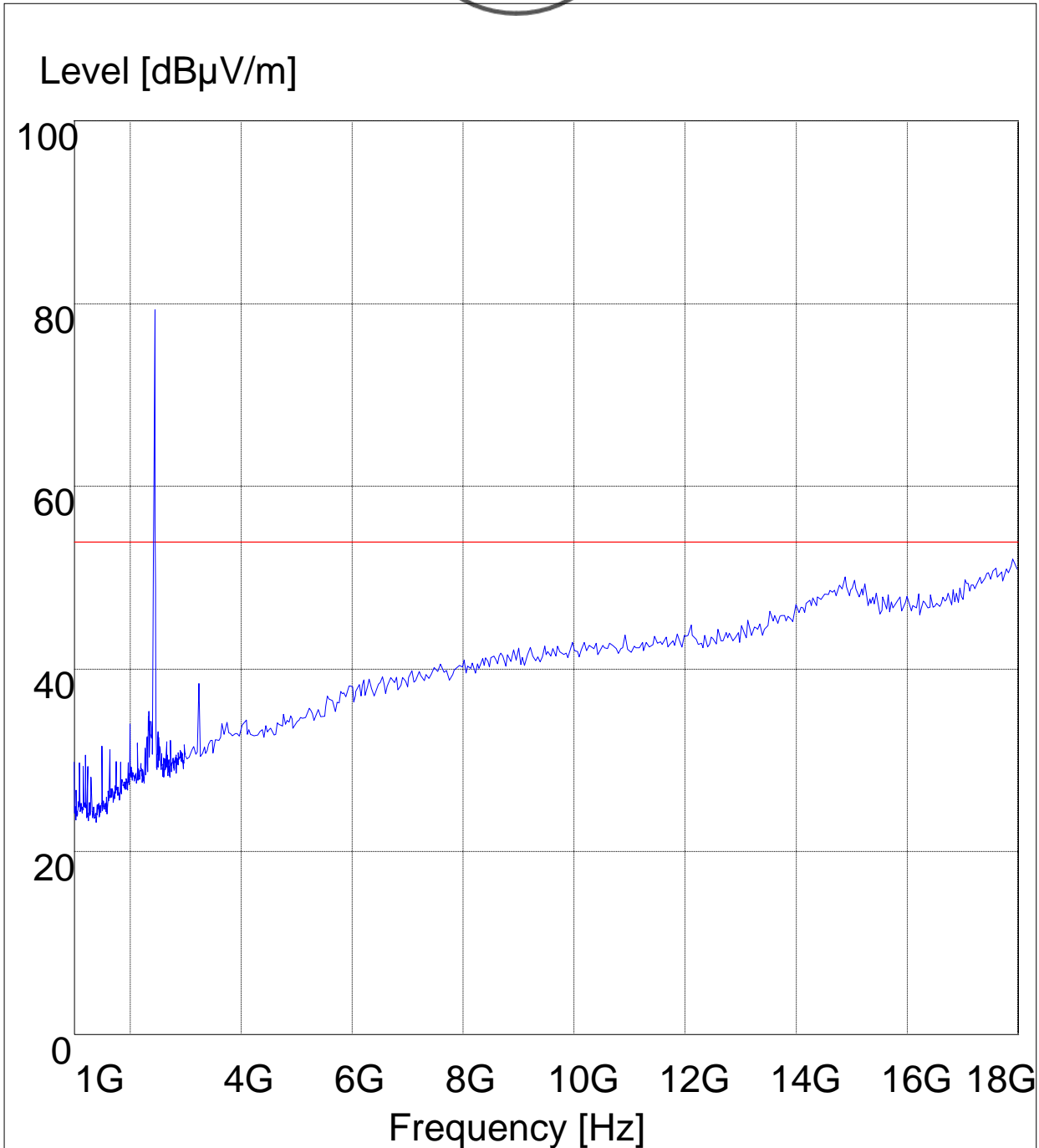


— MES W302P CH4 H H40 Ver  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**CH04 at 130Mbps: Horizontal**

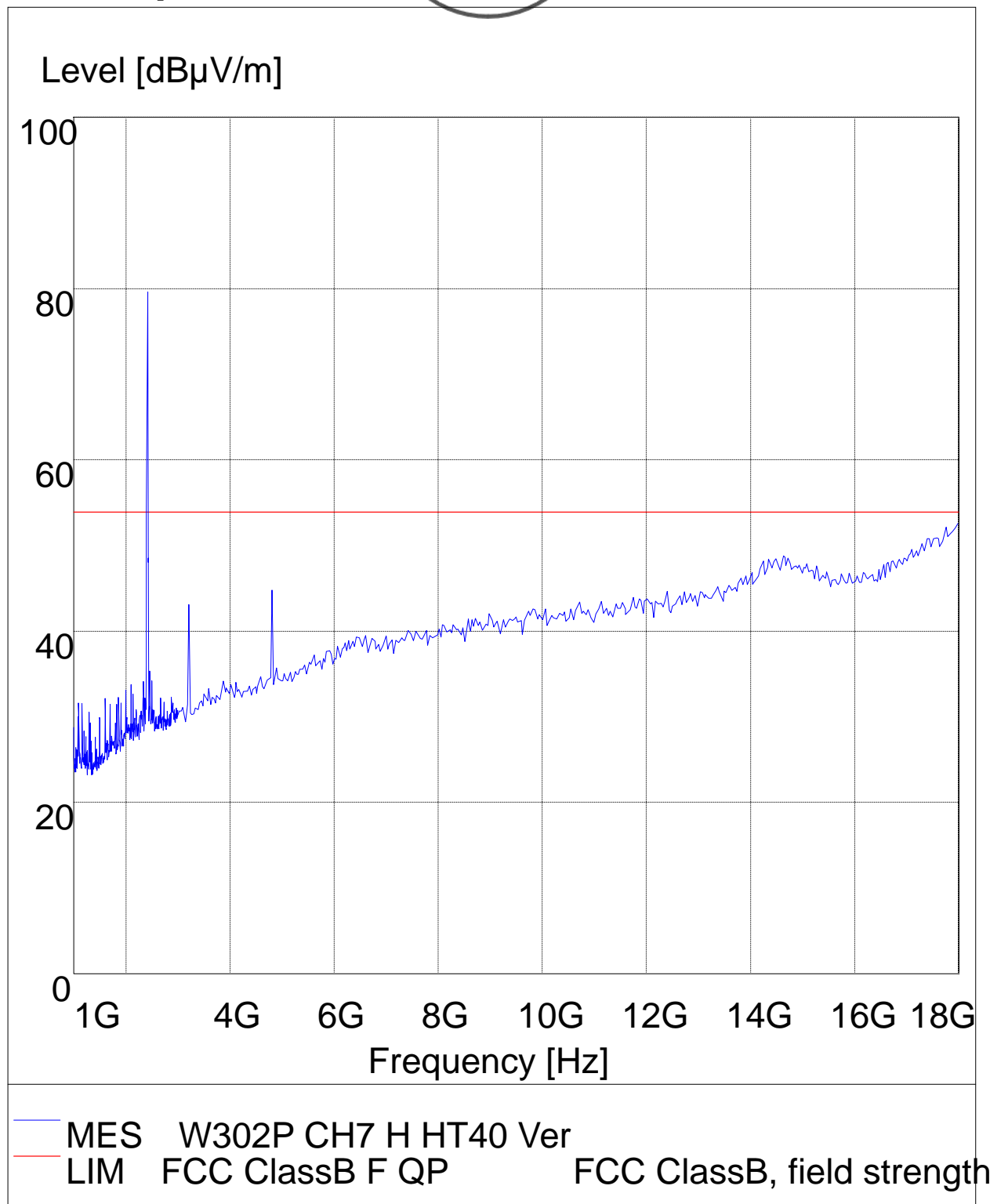


— MES W302P CH4 H H40 Hor  
— LIM FCC ClassB F QP FCC ClassB, field strength

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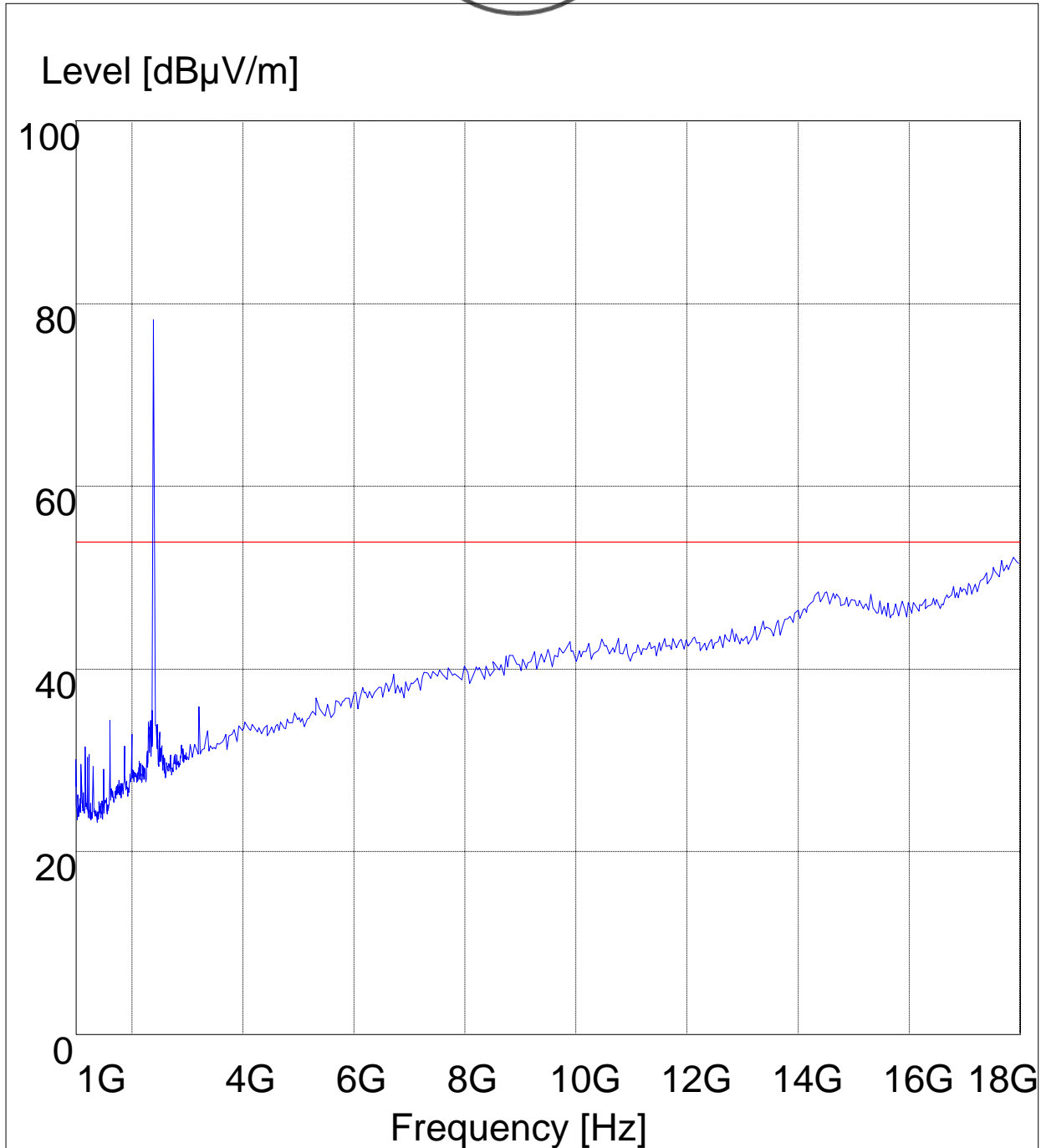
CH07 at 130Mbps: Vertical



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**CH07 at 130Mbps: Horizontal**

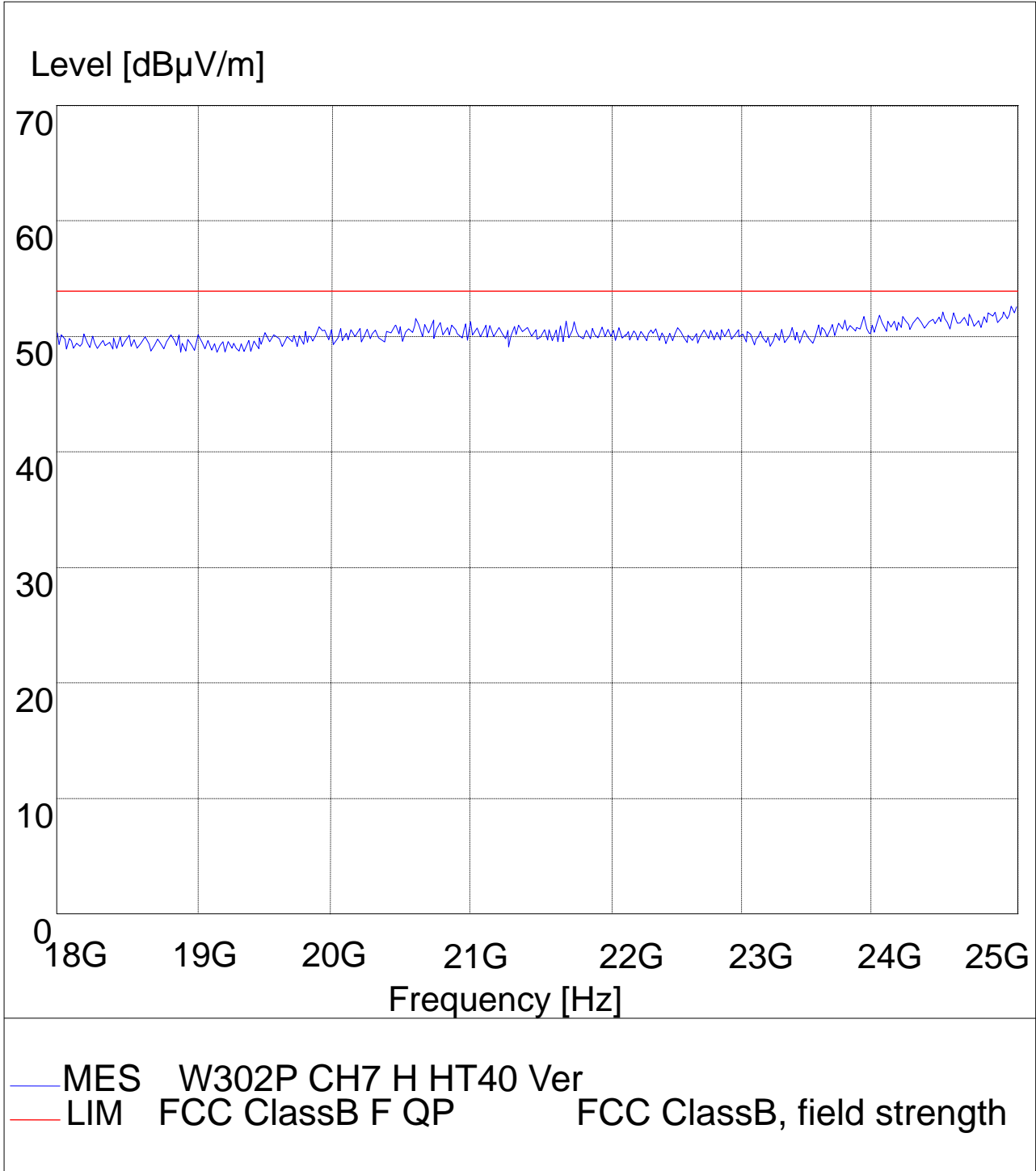


— MES W302P CH7 H HT40 Hor  
— LIM FCC ClassB F QP FCC ClassB, field strength

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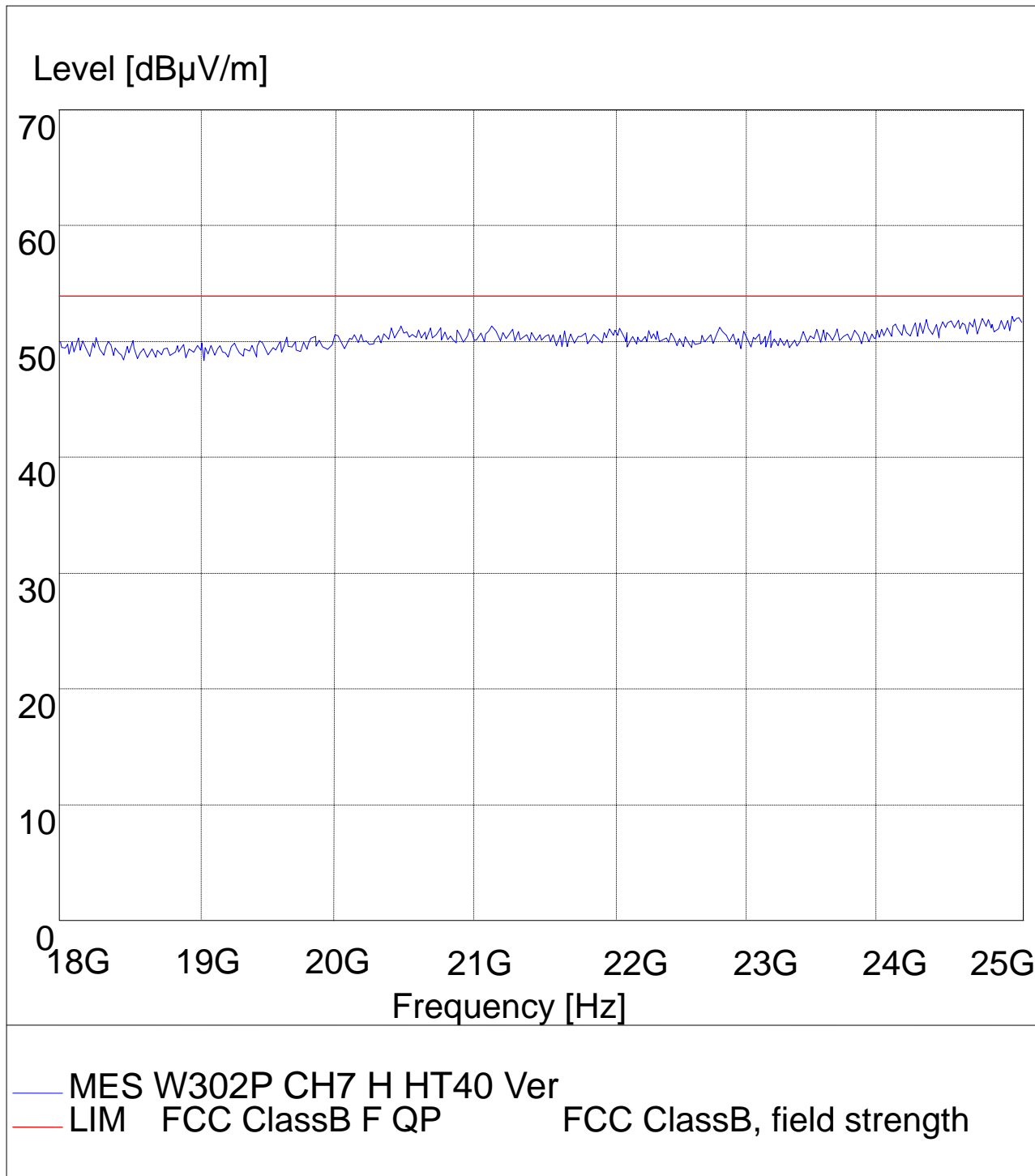
18-25G  
CH11 130M Horizontal



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18-25G  
CH7 6M Vertical



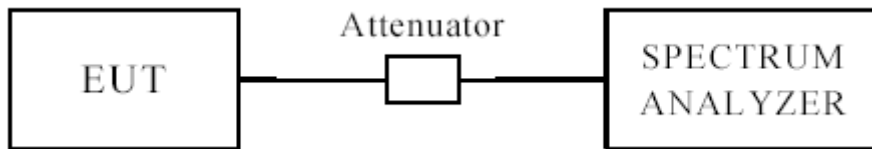
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## 7.0 6dB Bandwidth Measurement

### 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	300M Wireless PCI Adapter		Model	W302P	
Mode	802.11b		Input Voltage	Powered by PC	
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	13.11	0.5	Pass
		11	11.42		
6	2437	1	13.11	0.5	Pass
		11	11.54		
11	2462	1	13.11	0.5	Pass
		11	11.30		

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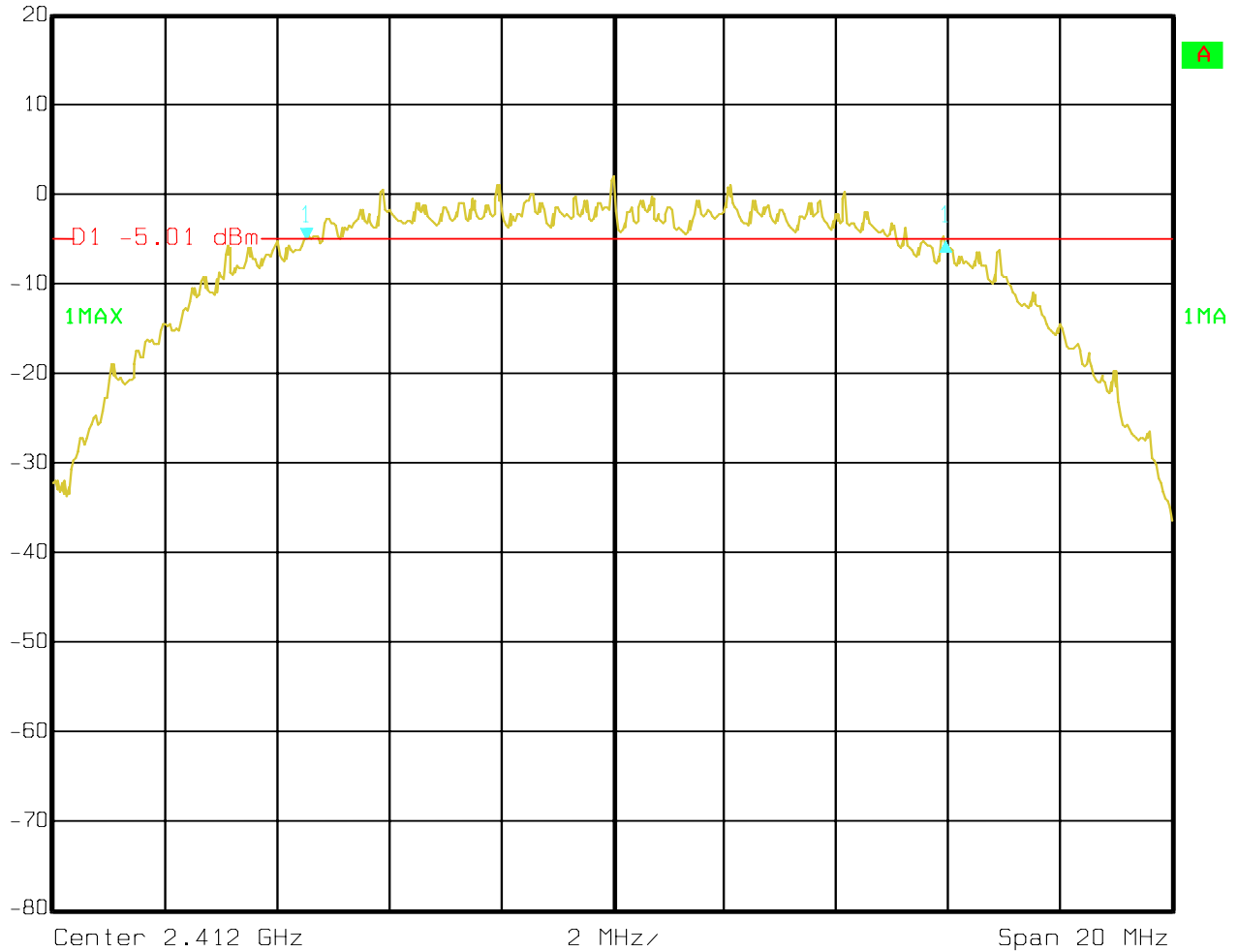
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Test Figure:

**1. Condition: 802.11b at 11Mbps of CH01**

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.14 dB	VBW	100 kHz	
	20 dBm	11.42284569 MHz	SWT	5 ms	Unit dBm



Date: 06.AUG.2008 11:13:39

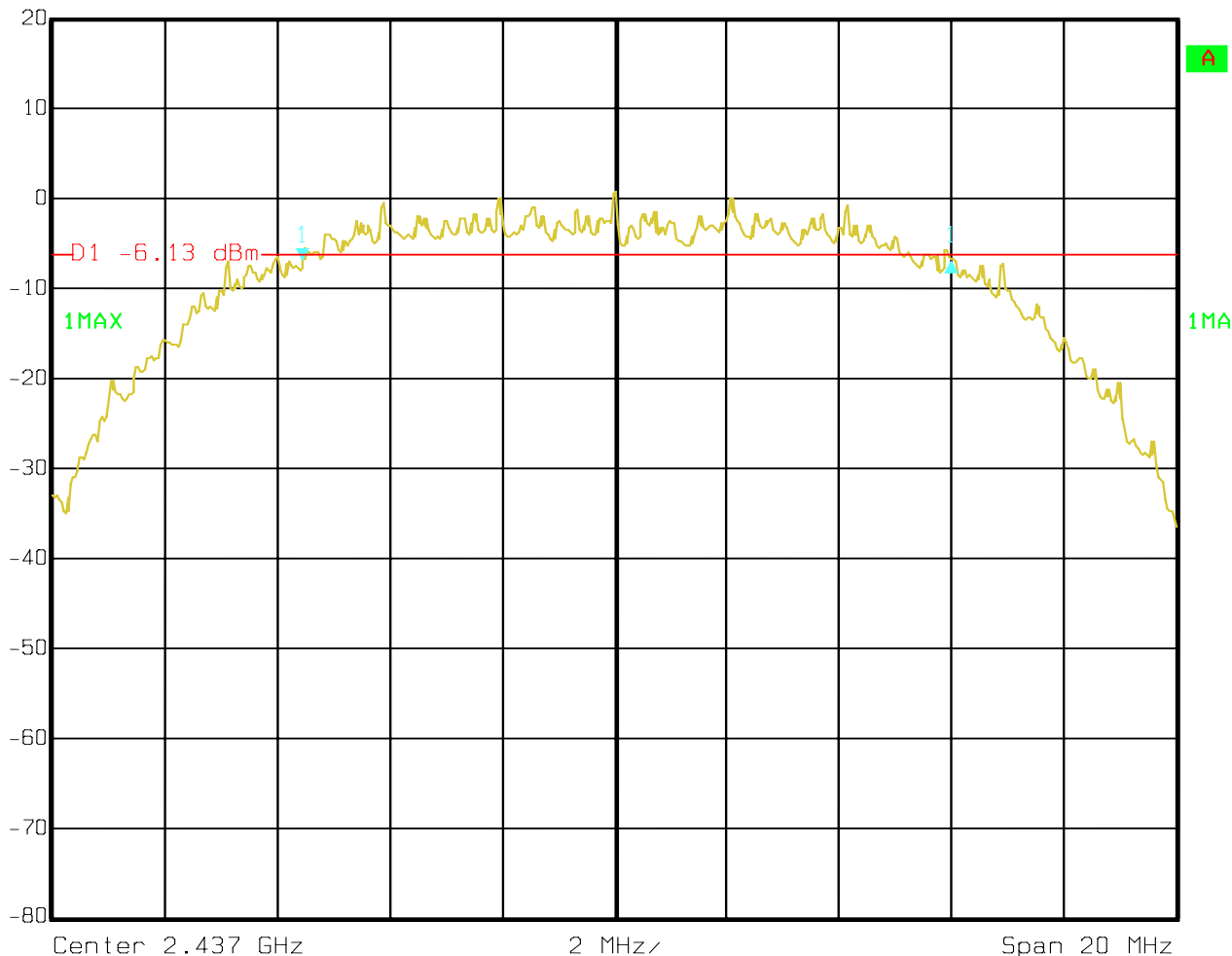
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2. Condition: 802.11b at 11Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	0.00 dB	VBW	100 kHz		
	11.54308617 MHz	SWT	5 ms	Unit	dBm

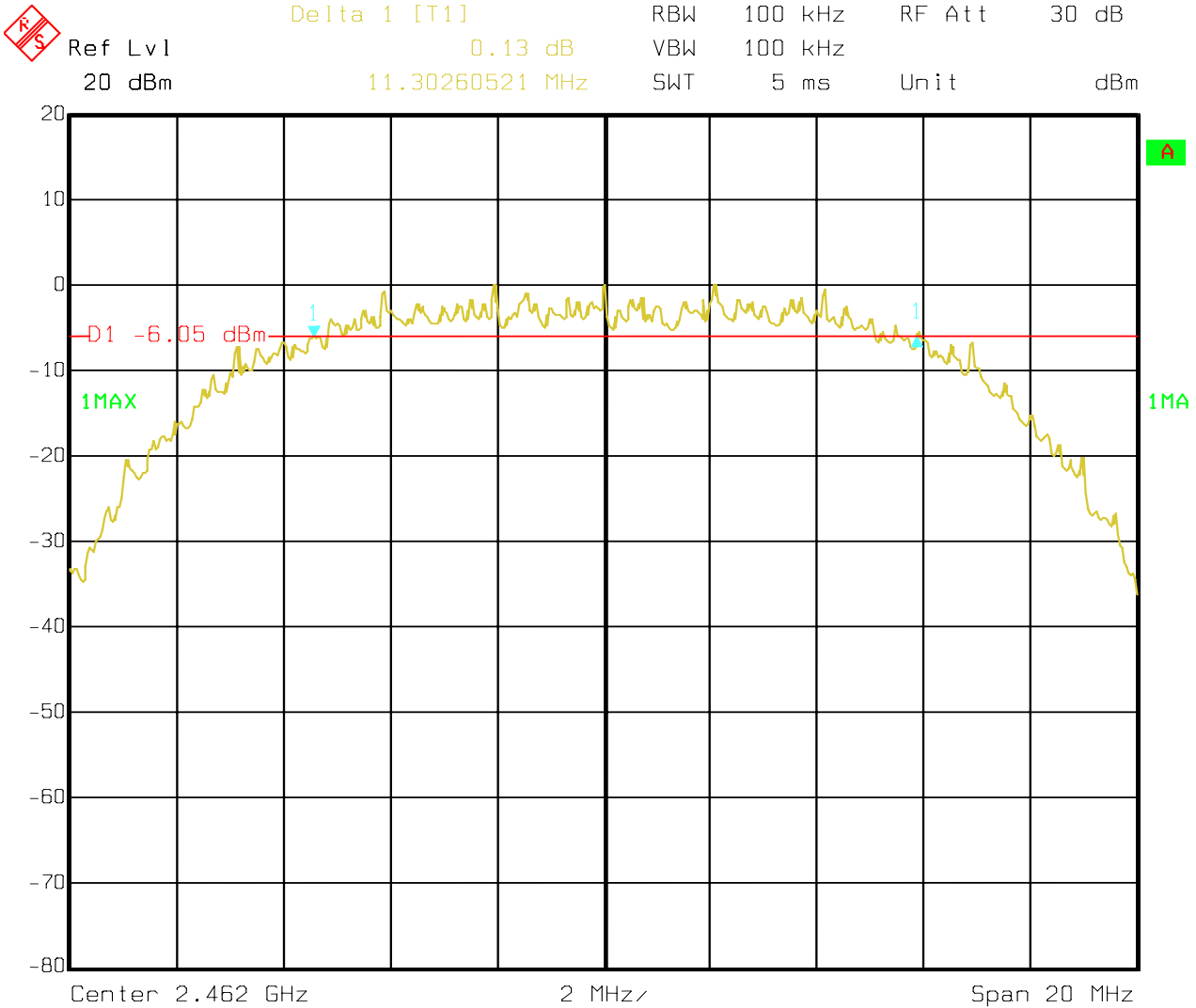


Date: 06.AUG.2008 11:12:19

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

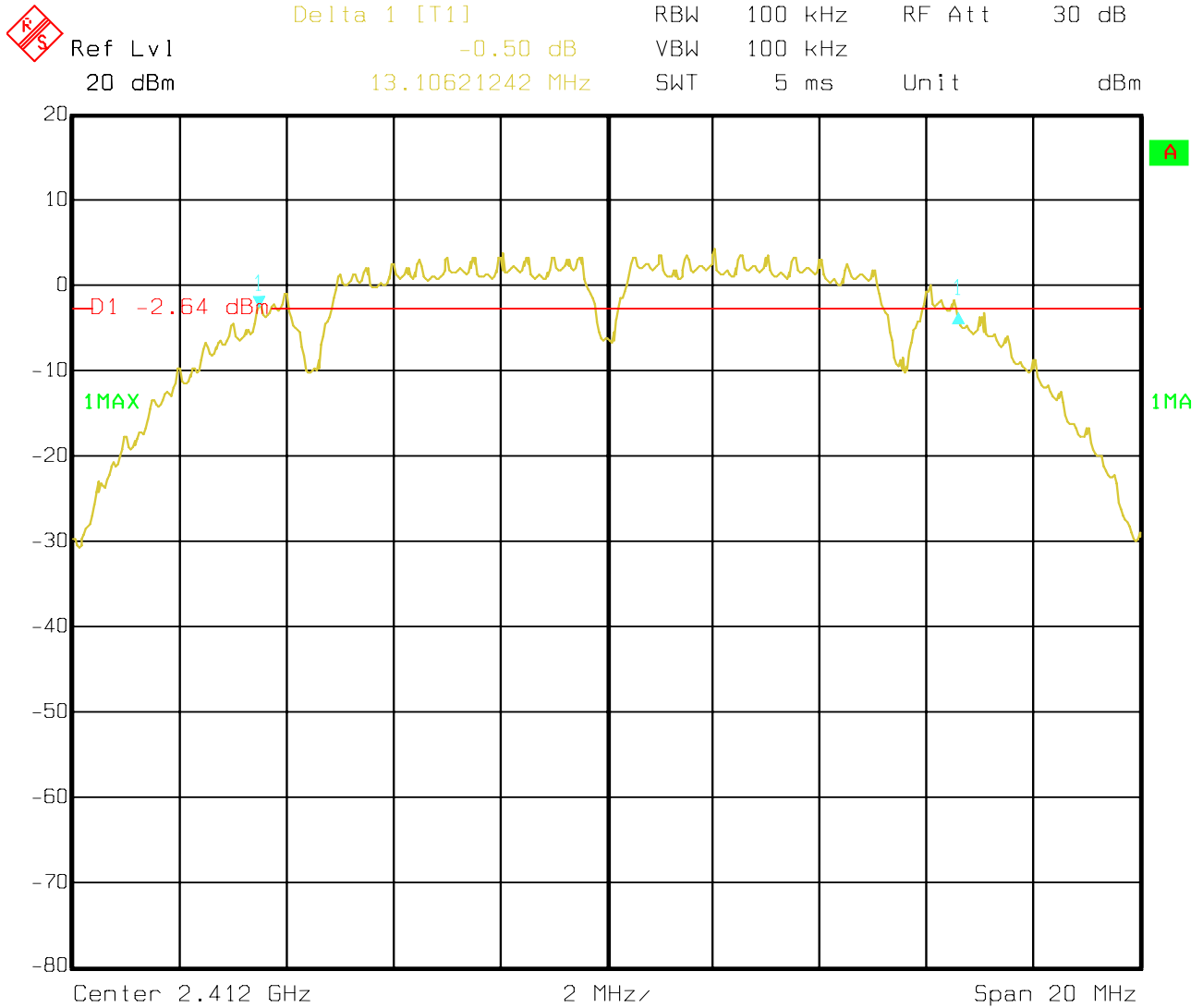


Date: 06.AUG.2008 11:10:47

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4. 802.11b at 1Mbps of CH01



Date: 08.AUG.2008 15:43:42

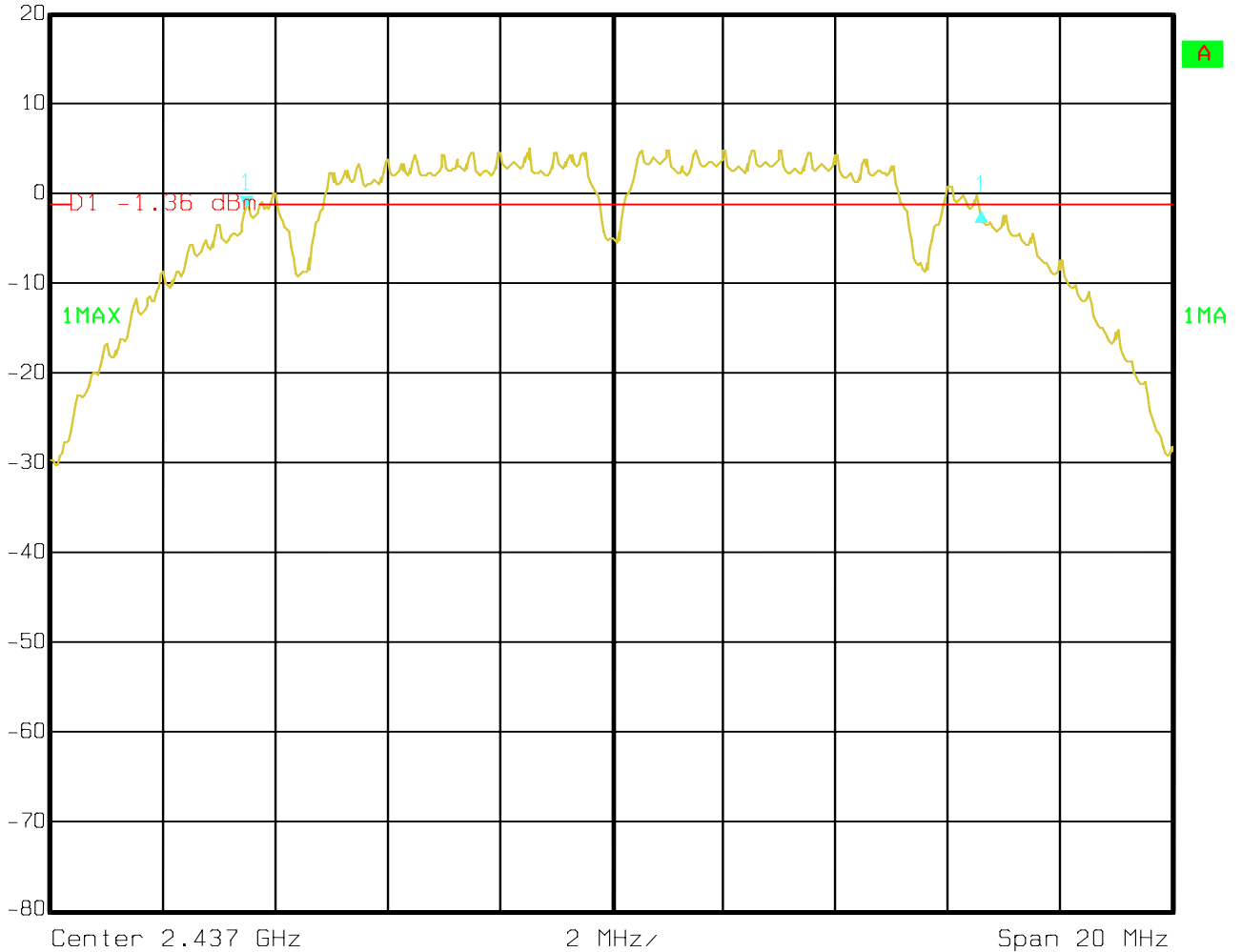
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5. 802.11b at 1Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.19 dB	VBW	100 kHz	Unit	dBm
	13.10621242 MHz	SWT	5 ms		



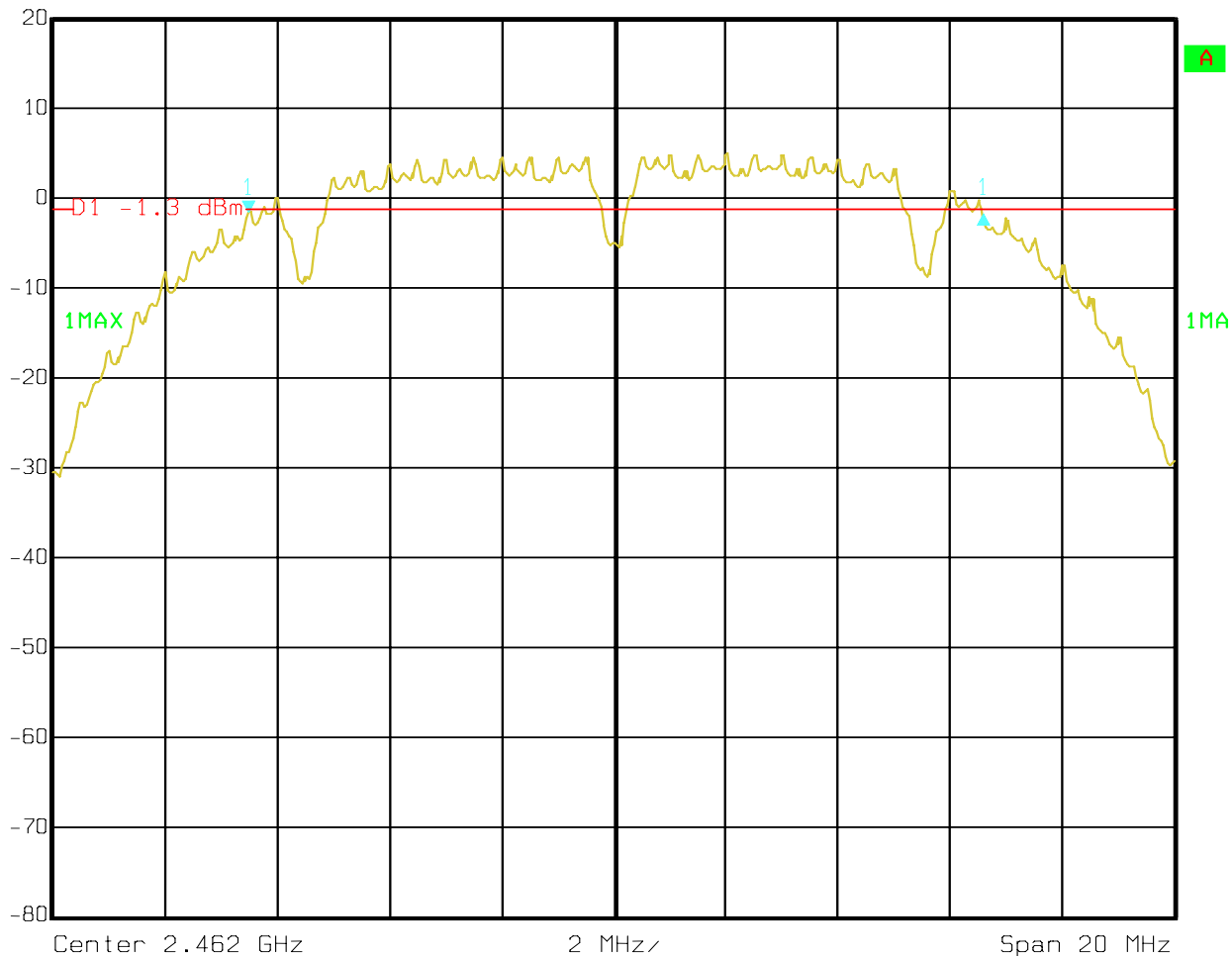
Date: 08.AUG.2008 15:42:12

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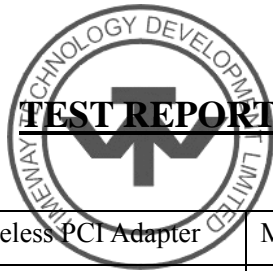
6. 802.11b at 1Mbps of CH11

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.11 dB	VBW	100 kHz	
	20 dBm	13.10621242 MHz	SWT	5 ms	Unit dBm



Date: 08.AUG.2008 15:40:35

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EUT	300M Wireless PCI Adapter		Model	W302P	
Mode	802.11g		Input Voltage	Powered by PC	
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	16.43	0.5	Pass
		54	16.59		
6	2437	6	16.43	0.5	Pass
		54	16.51		
11	2462	6	16.43	0.5	Pass
		54	16.51		

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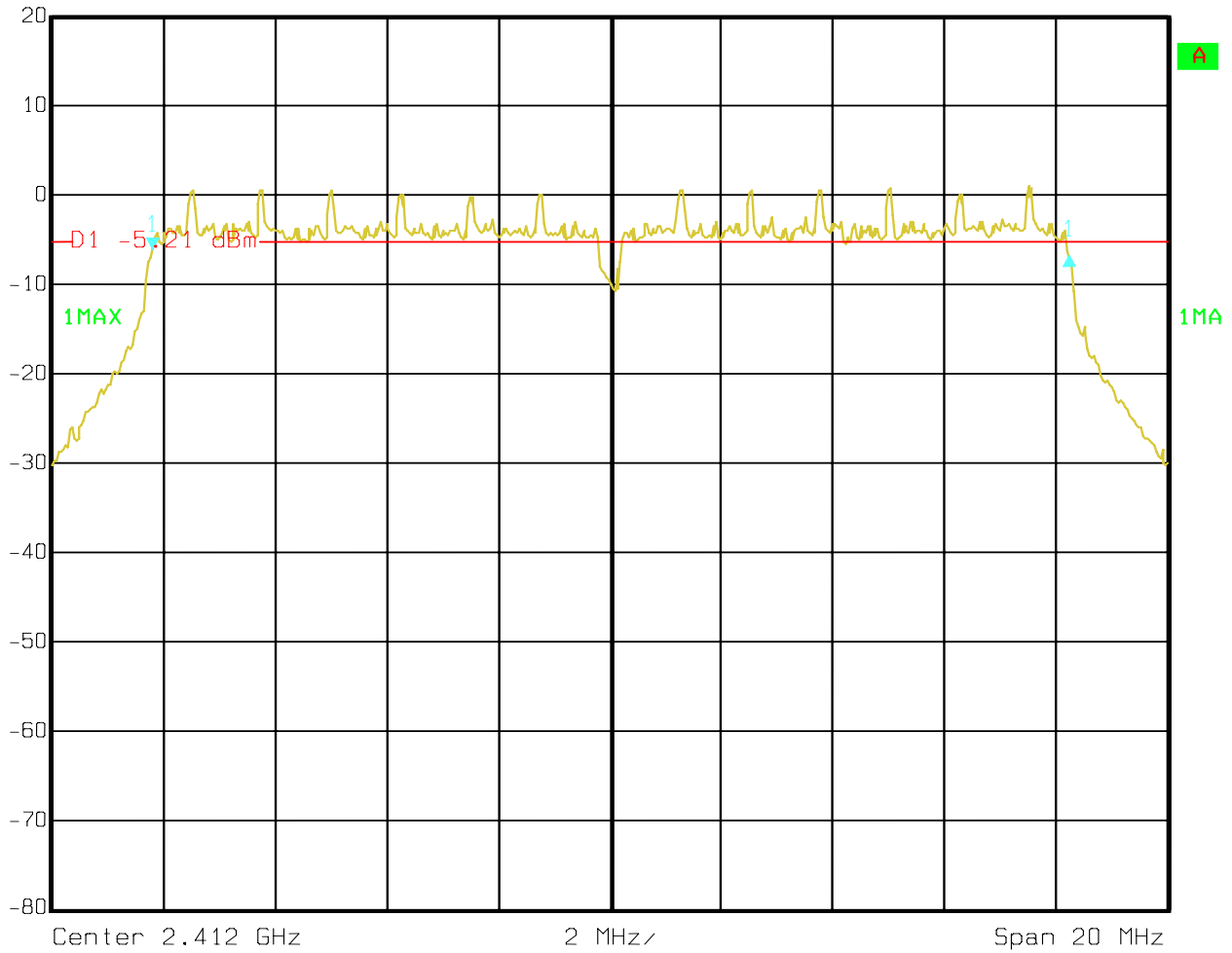




**Test Plots:**

**1. 802.11g at 6Mbps of CH01**

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.45 dB	VBW	100 kHz	
	20 dBm	16.43286573 MHz	SWT	5 ms	Unit



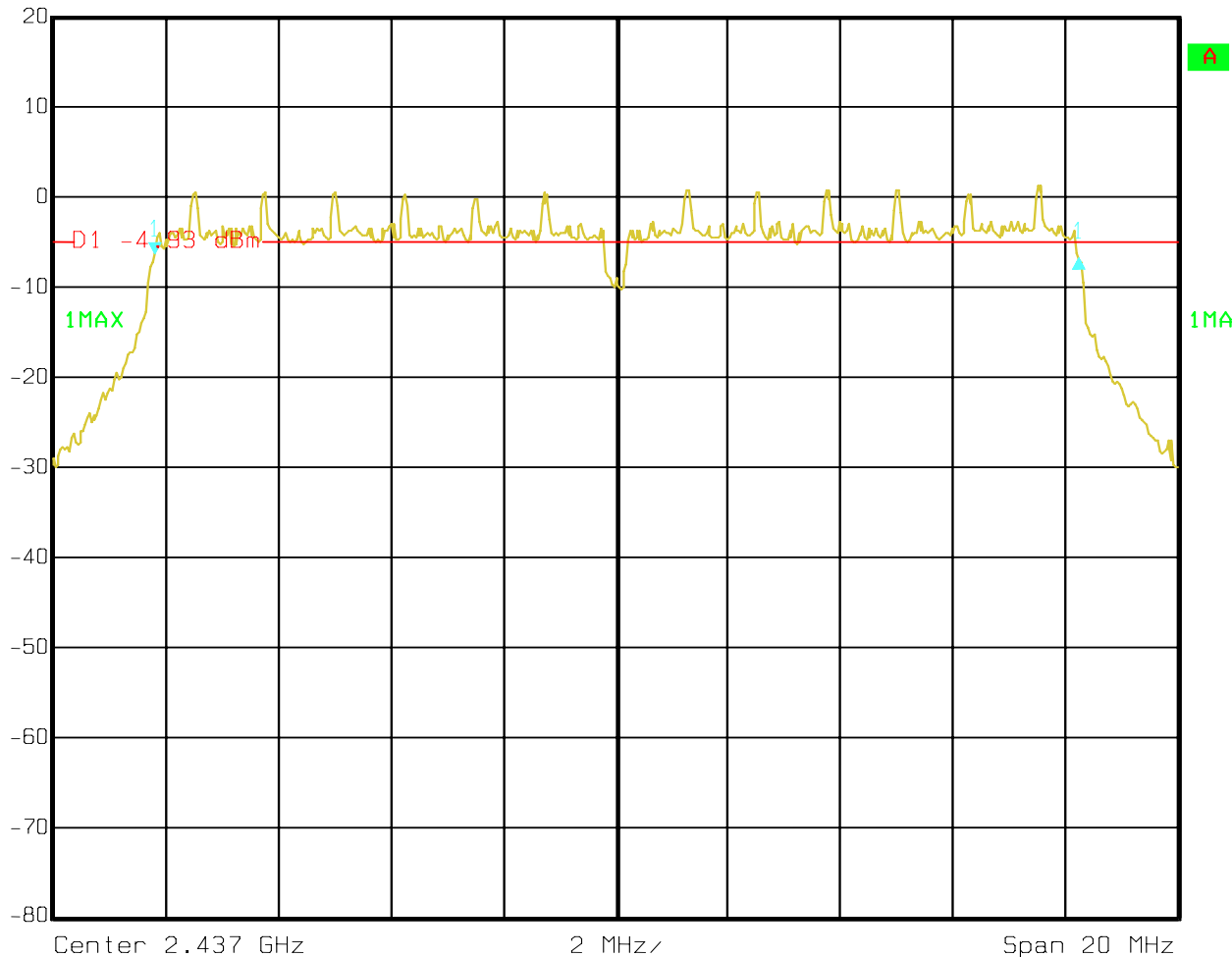
Date: 20.SEP.2008 15:01:43

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2. 802.11g at 6Mbps of CH06

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.43 dB	VBW	100 kHz	
	20 dBm	16.43286573 MHz	SWT	5 ms	Unit



Date: 20.SEP.2008 15:05:00

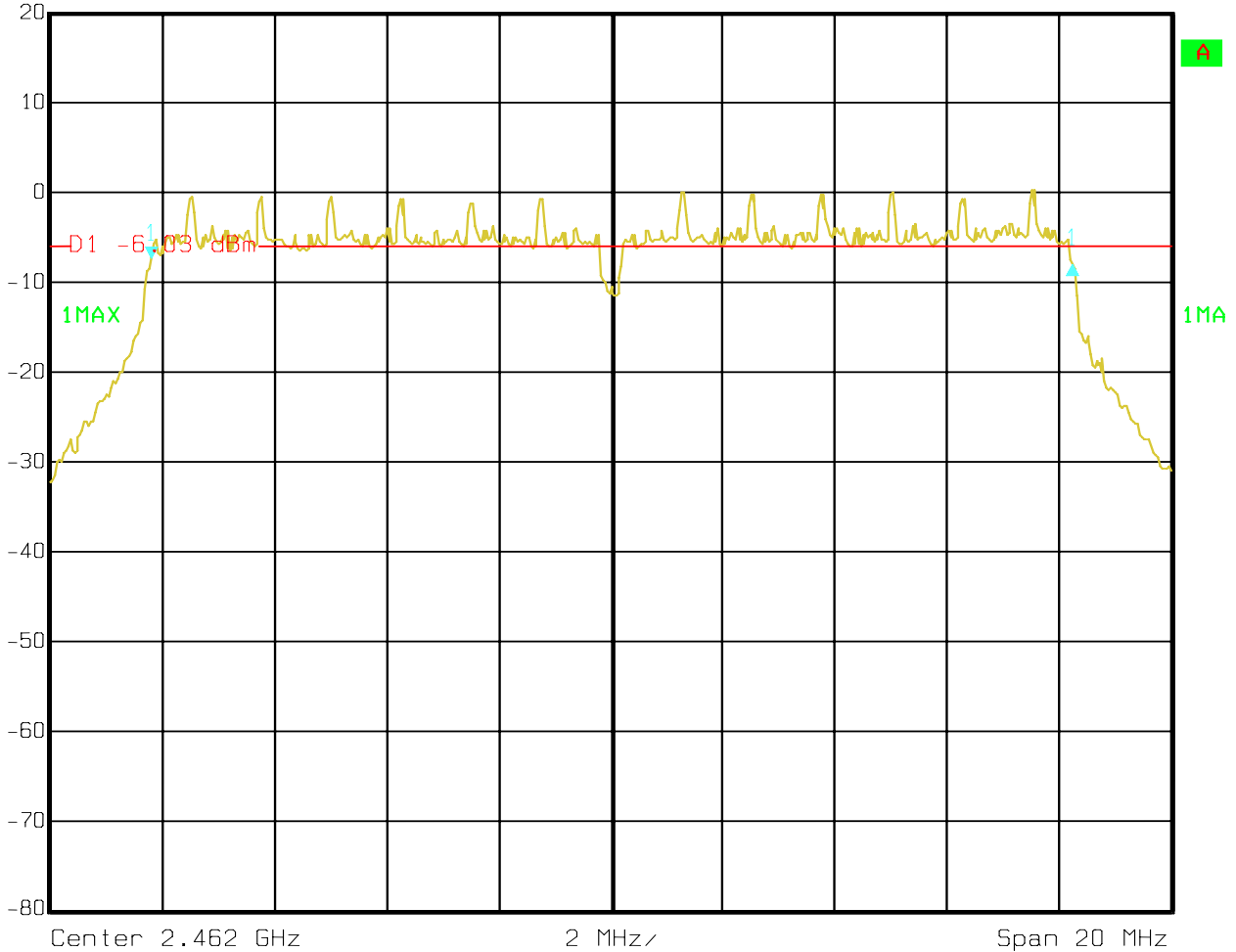
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### 3. 802.11g at 6Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.47 dB	VBW	100 kHz	Unit	dBm
	16.43286573 MHz	SWT	5 ms		



Date: 20.SEP.2008 15:07:08

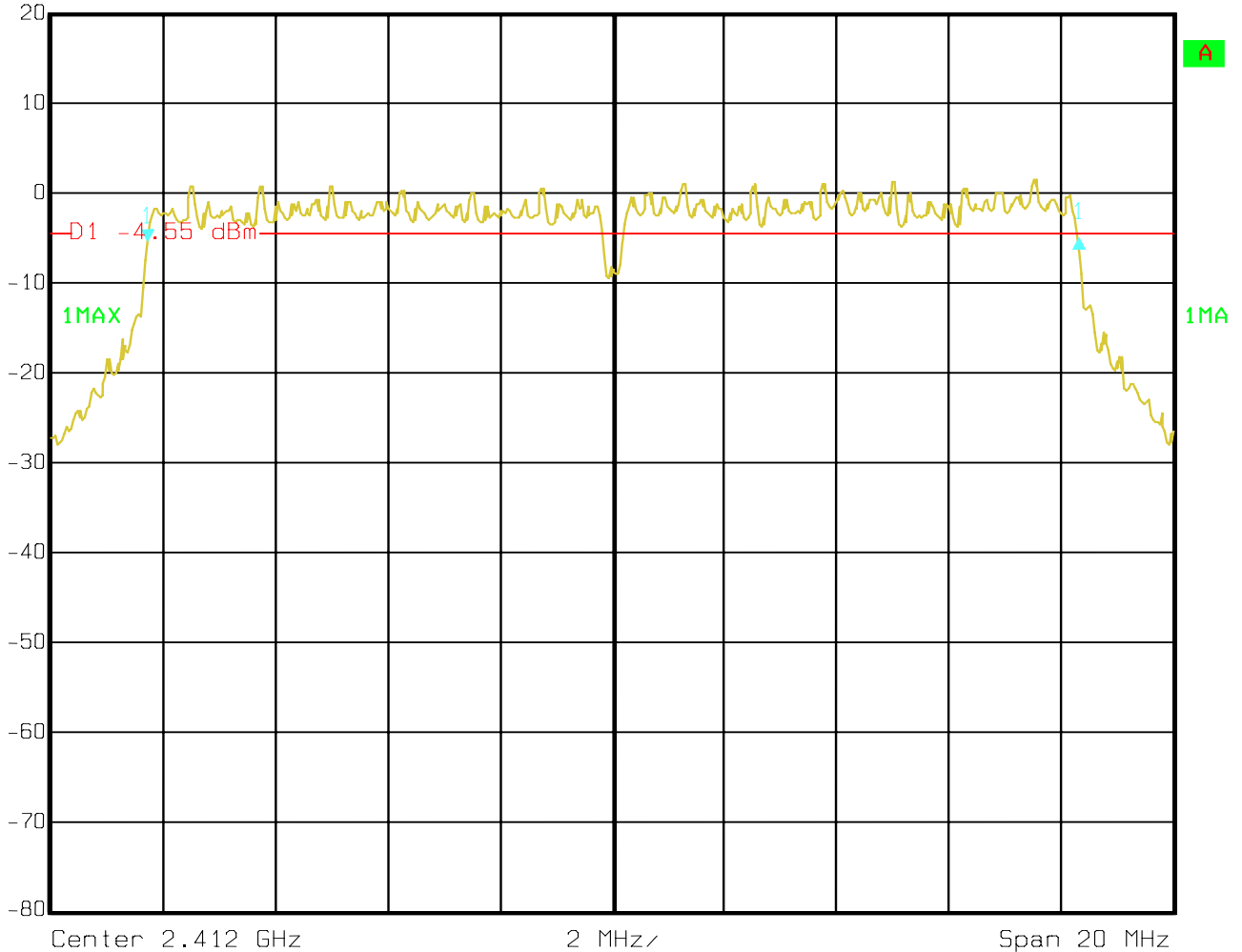
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4. 802.11g at 54Mbps of CH01



Delta 1 [T1] RBW 100 kHz RF Att 30 dB  
Ref Lvl 0.50 dB VBW 100 kHz  
20 dBm 16.59318637 MHz SWT 5 ms Unit dBm



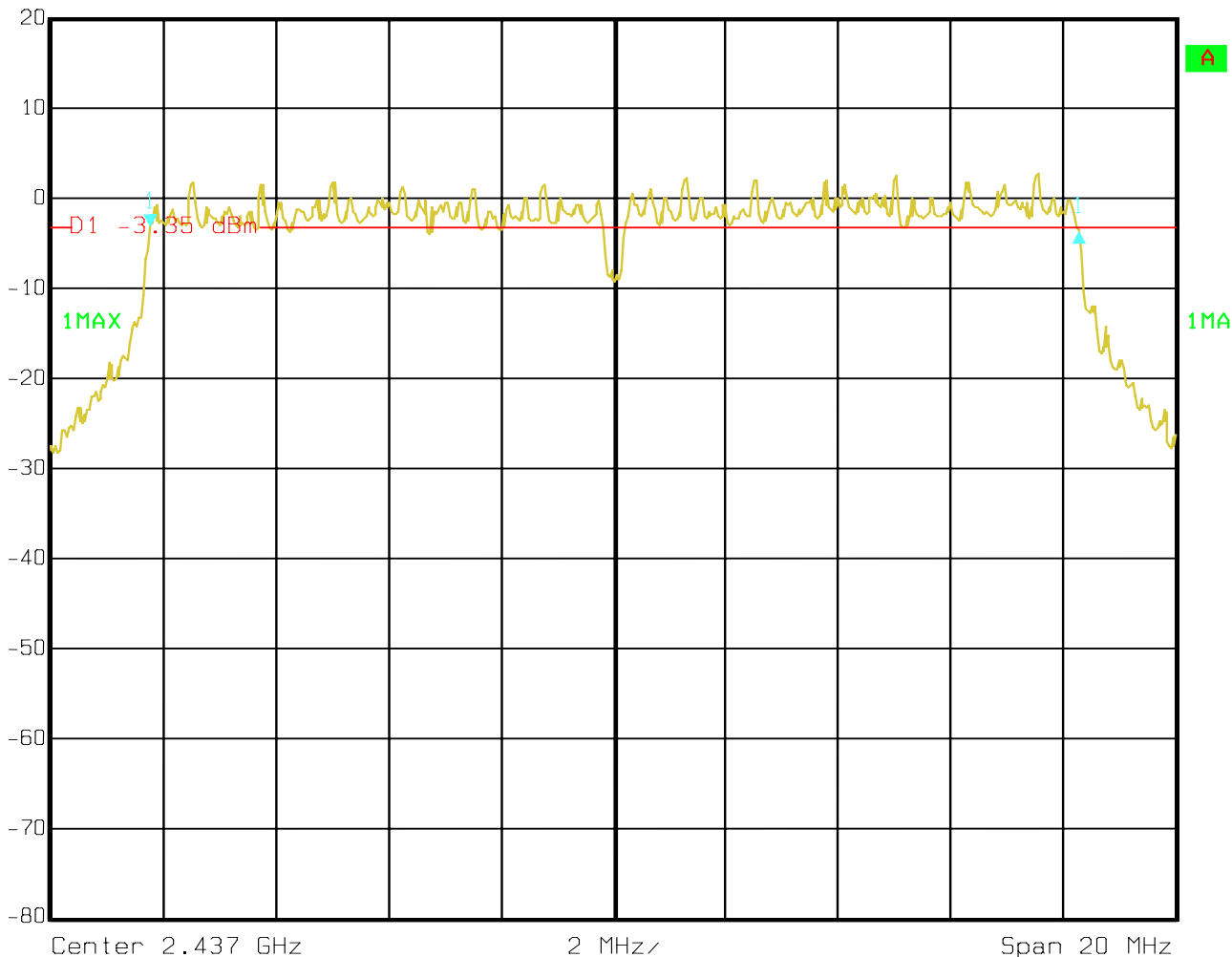
Date: 08.AUG.2008 15:22:25

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5. 802.11g at 54Mbps of CH06

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.45 dB	VBW	100 kHz	
	20 dBm	16.51302605 MHz	SWT	5 ms	Unit



Date: 08.AUG.2008 15:24:53

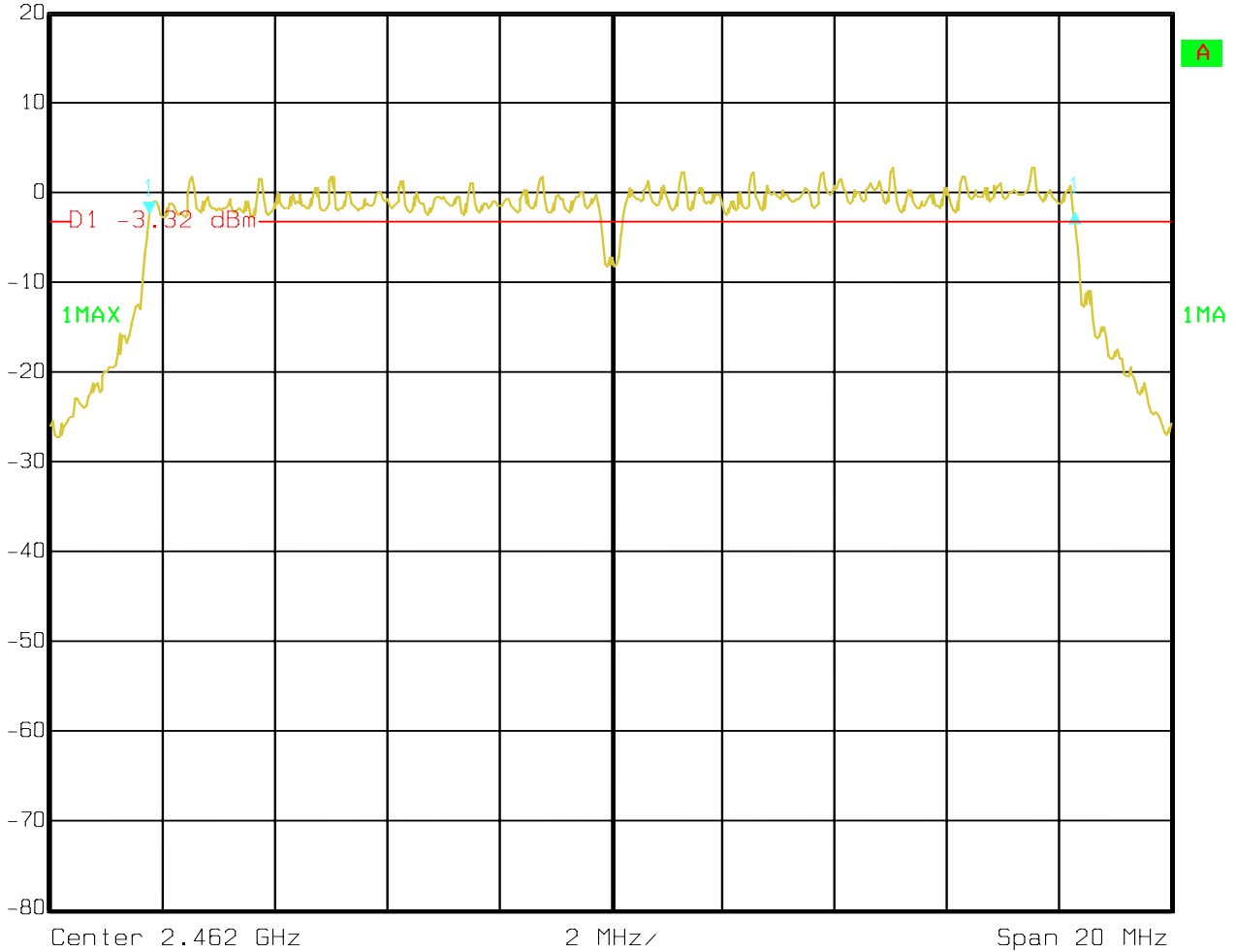
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6. 802.11g at 54Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	0.18 dB	VBW	100 kHz		
	16.51302605 MHz	SWT	5 ms	Unit	dBm



Date: 08.AUG.2008 15:26:24

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EUT		300M Wireless PCI Adapter		Model		W302P	
Mode		IEEE 802.11n HT20 mode (one TX)		Input Voltage		Powered by PC	
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	17.35	0.5	Pass		
		130	17.72				
6	2437	6	17.35	0.5	Pass		
		130	17.52				
11	2462	6	17.68	0.5	Pass		
		130	17.56				

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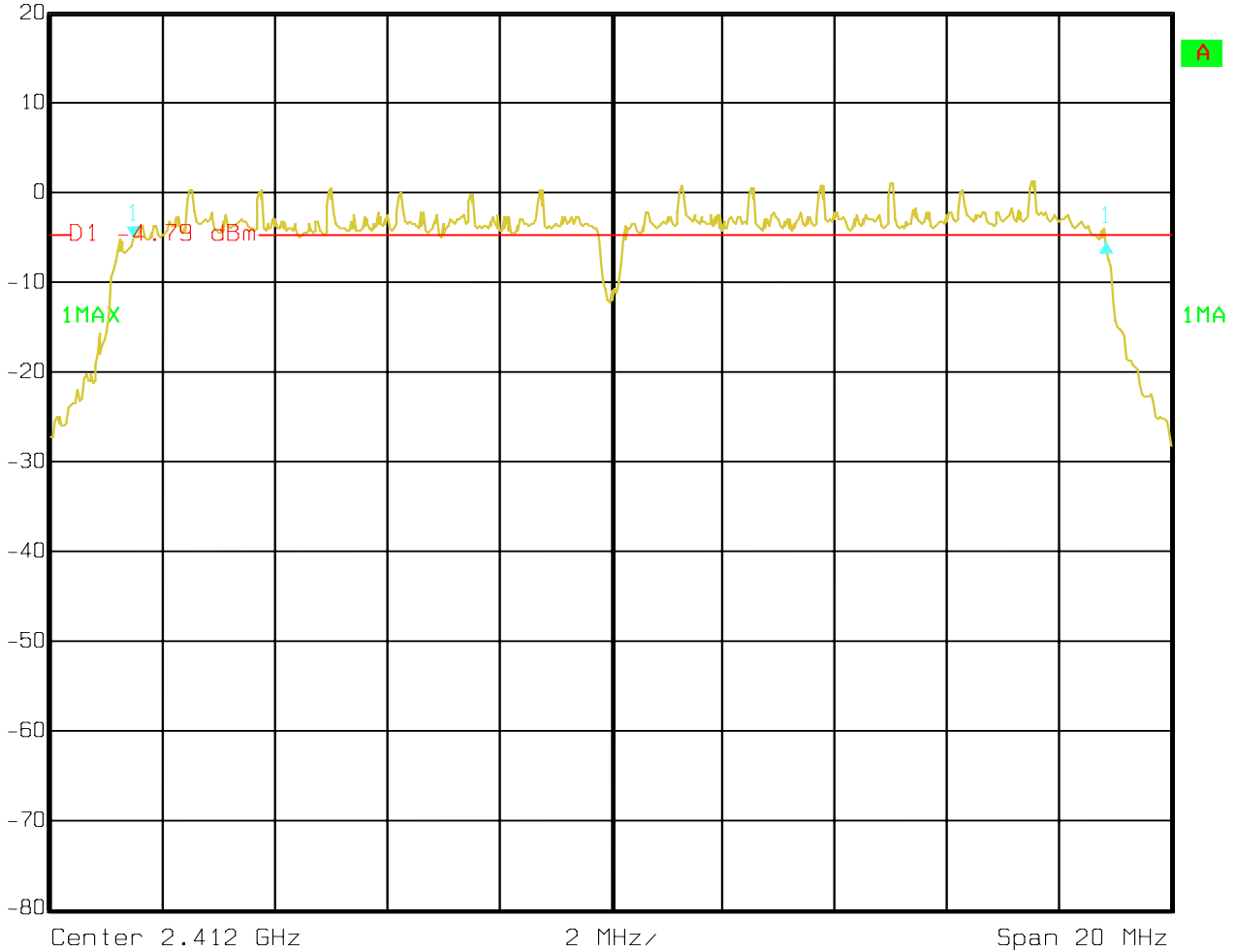
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1. 802.11n at 6Mbps of CH1



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.22 dB	VBW	100 kHz		
	17.35470942 MHz	SWT	5 ms	Unit	dBm



Date: 09.AUG.2008 11:00:50

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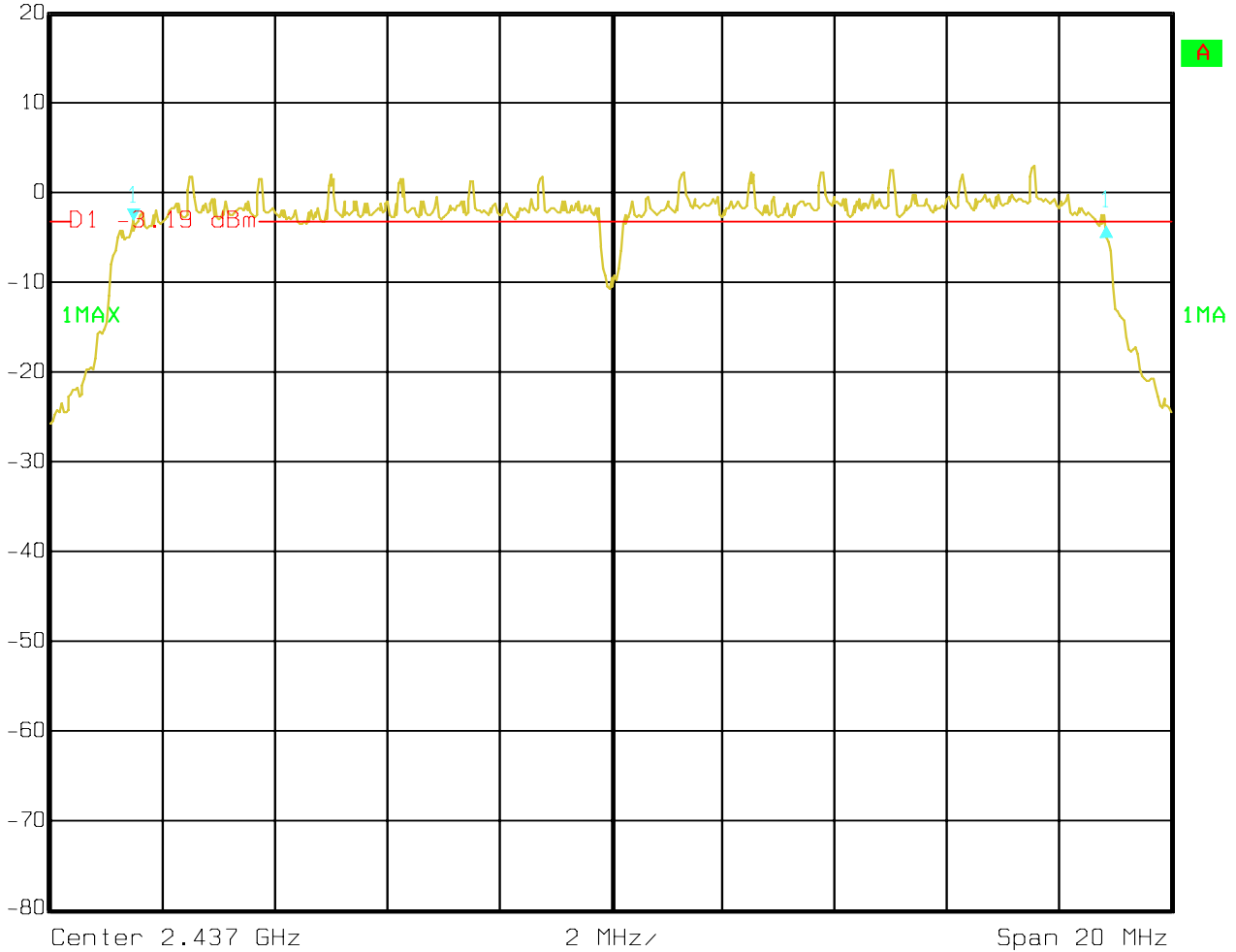




2. 802.11n at 6Mbps of CH6



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.52 dB	VBW	100 kHz		
	17.35470942 MHz	SWT	5 ms	Unit	dBm



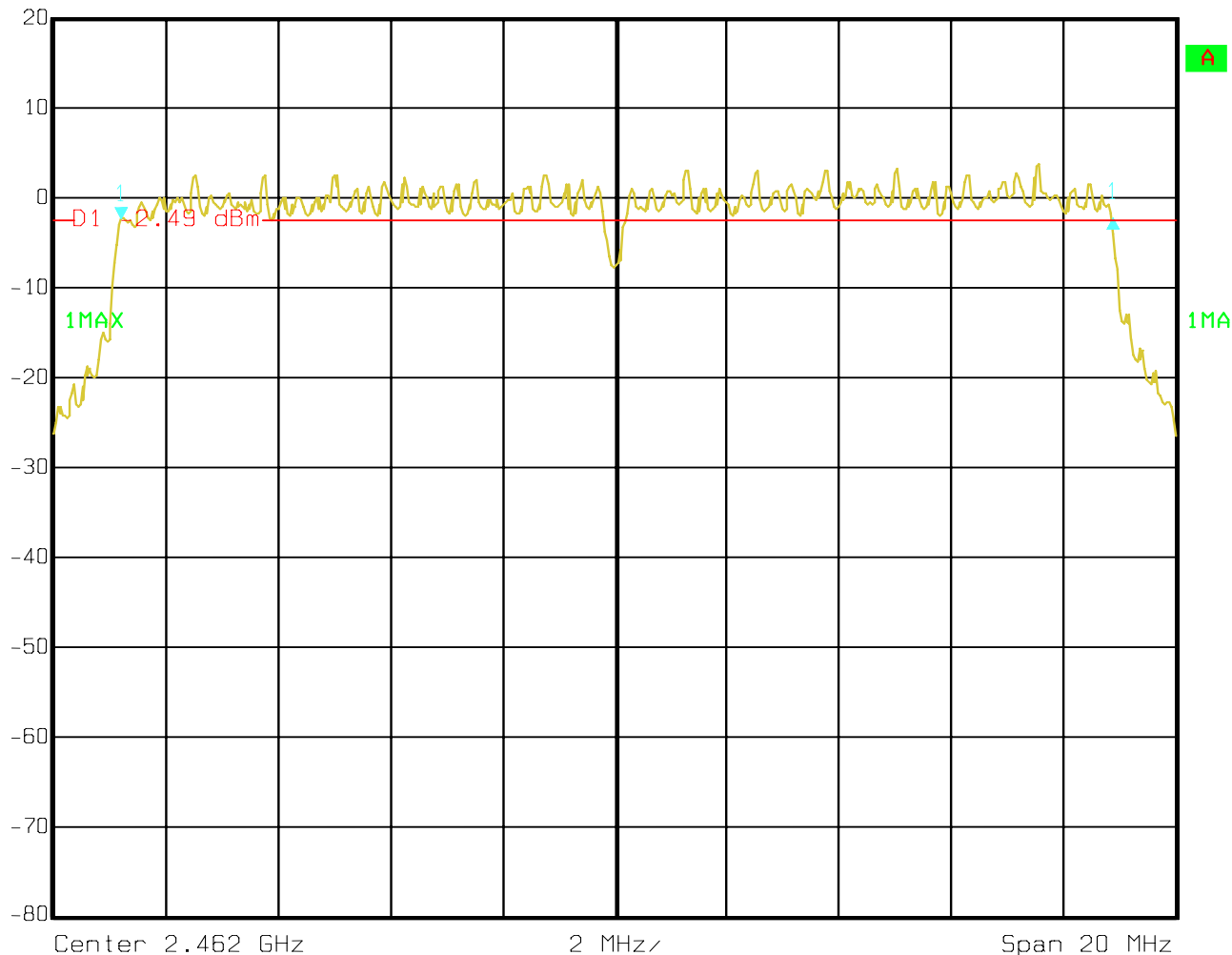
Date: 09.AUG.2008 10:59:28

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3. 802.11n at 6Mbps of CH11

RS	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	0.34 dB	VBW	100 kHz	
	20 dBm	17.67535070 MHz	SWT	5 ms	Unit dBm



Date: 09.AUG.2008 10:58:06

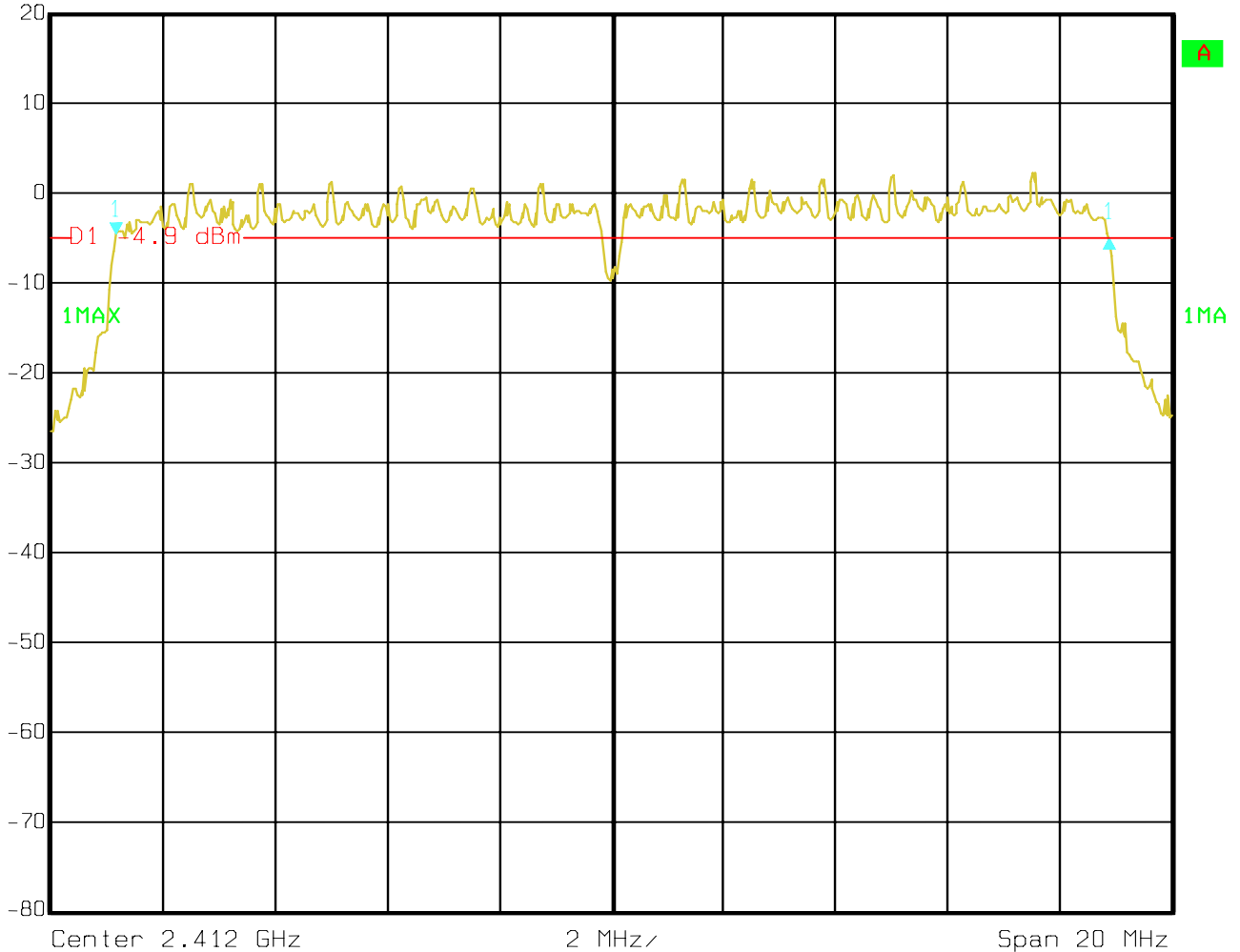
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4. 802.11n at 130Mbps of CH1



Delta 1 [T1] RBW 100 kHz RF Att 30 dB  
Ref Lvl -0.27 dB VBW 100 kHz  
20 dBm 17.71543086 MHz SWT 5 ms Unit dBm



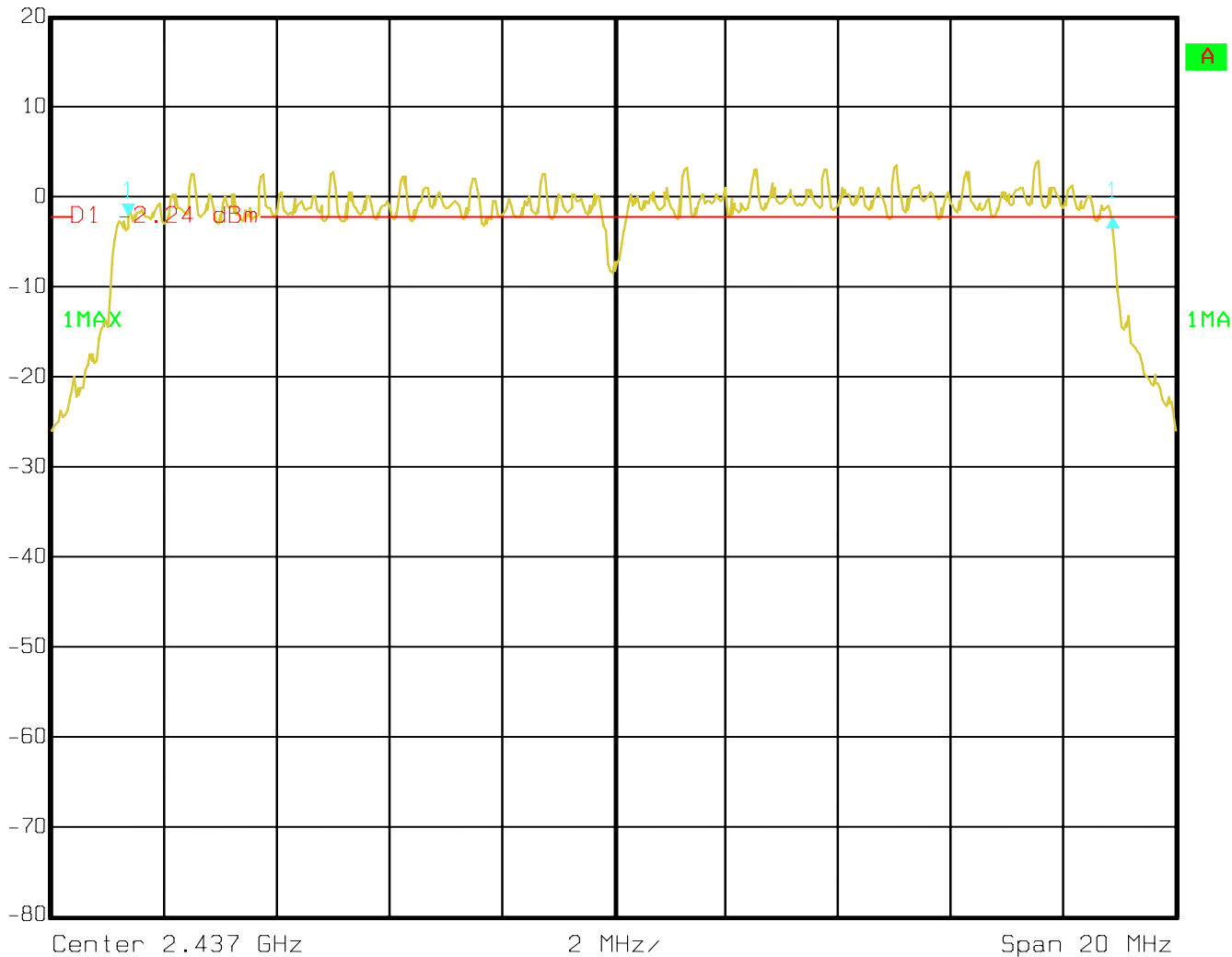
Date: 09.AUG.2008 10:51:50

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5. 802.11n at 130Mbps of CH6

	LO un1	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.06 dB	VBW	100 kHz		
	20 dBm	17.51503006 MHz	SWT	5 ms	Unit	dBm



Date: 09.AUG.2008 10:53:41

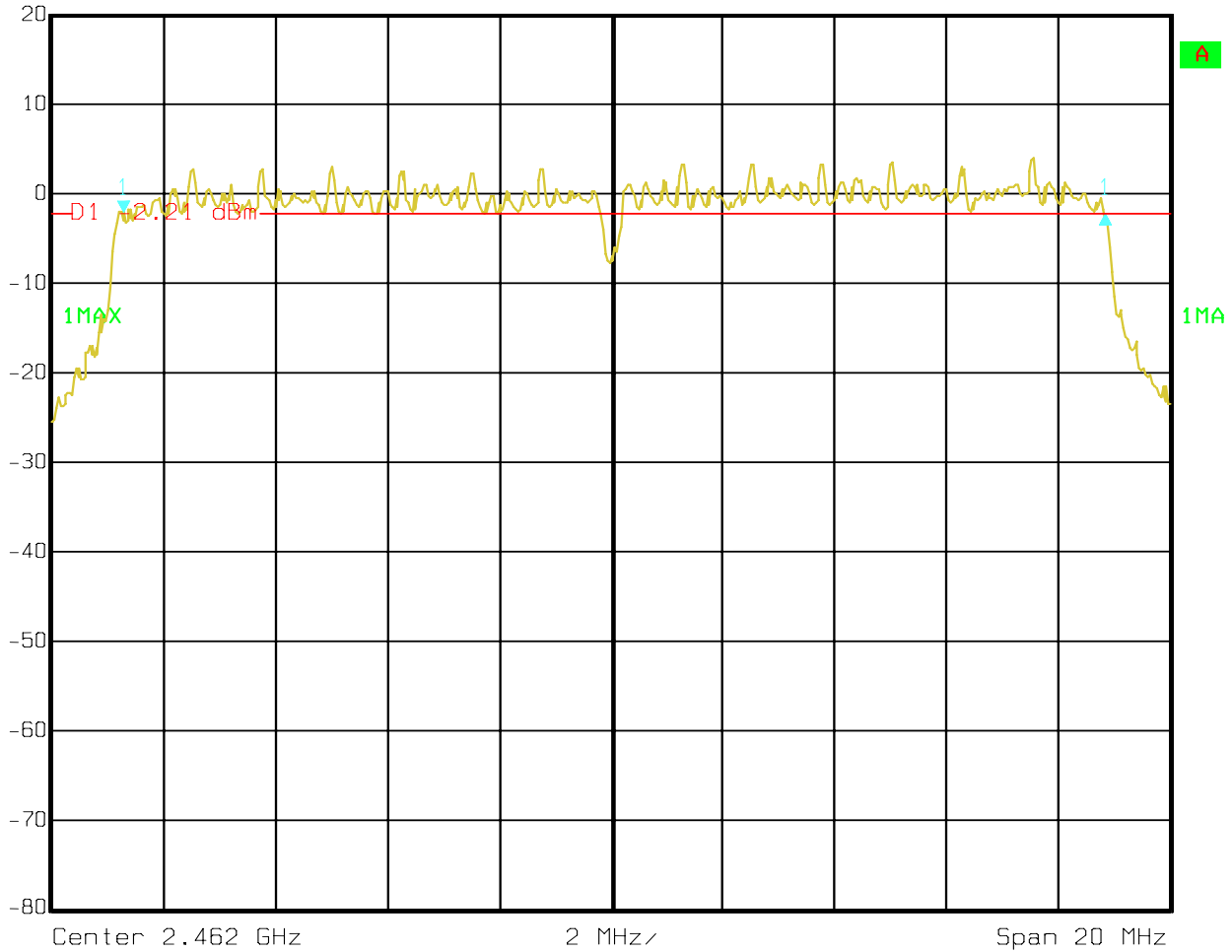
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6. 802.11n at 130Mbps of CH11



Delta 1 [T1] RBW 100 kHz RF Att 30 dB  
Ref Lvl 0.22 dB VBW 100 kHz  
20 dBm 17.55511022 MHz SWT 5 ms Unit dBm



Date: 09.AUG.2008 10:56:21

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EUT	300M Wireless PCI Adapter		Model	W302P	
Mode	IEEE 802.11n HT40 mode (one TX)		Input Voltage	Powered by PC	
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	2422	6	35.75	0.5	Pass
		130	35.75		
4	2437	6	35.75	0.5	Pass
		130	35.75		
7	2452	6	35.75	0.5	Pass
		130	35.75		

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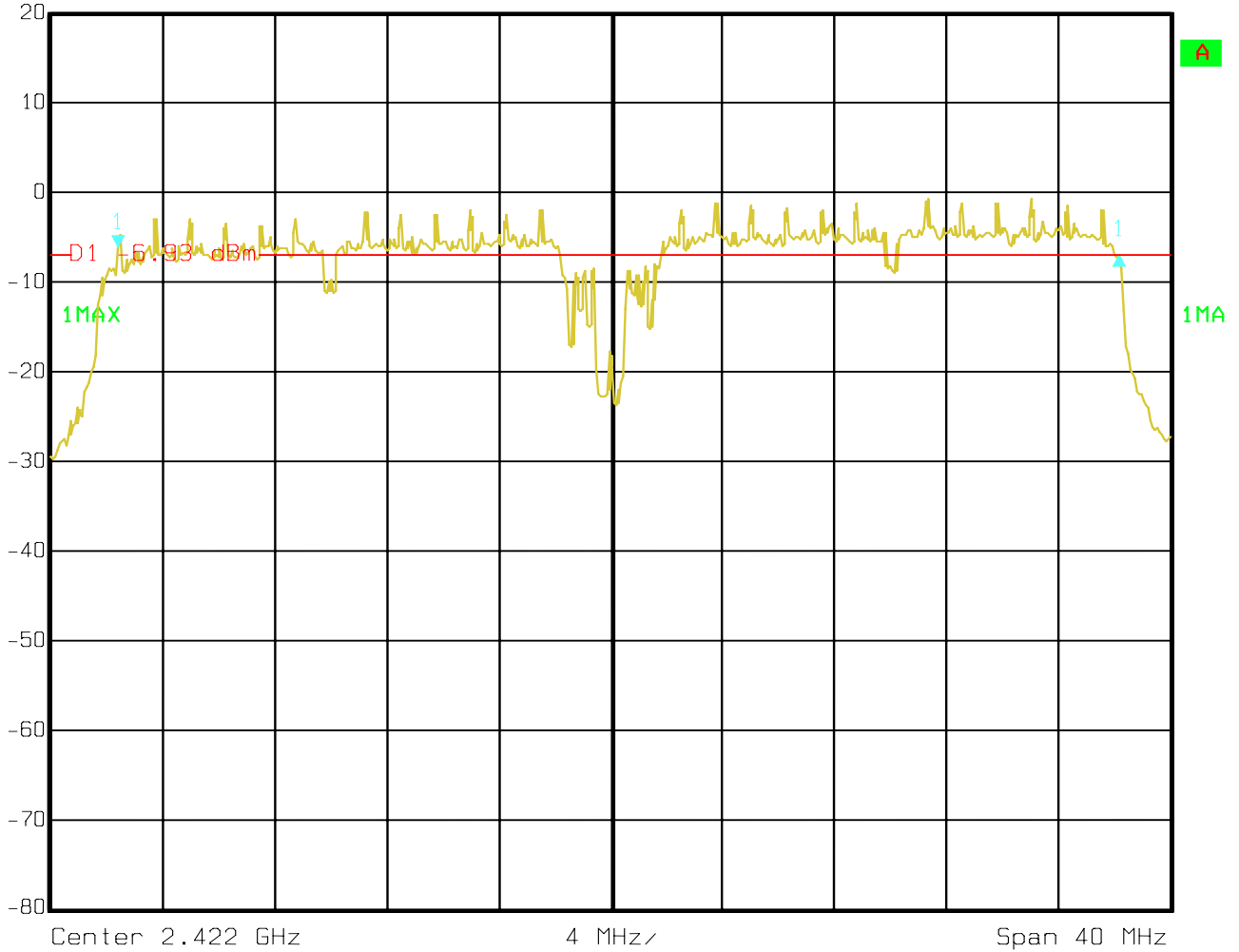
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1. 802.11n at 6Mbps of CH1



Delta 1 [T1] RBW 100 kHz RF Att 30 dB  
Ref Lvl -0.76 dB VBW 100 kHz  
20 dBm 35.75150301 MHz SWT 10 ms Unit dBm



Date: 09.AUG.2008 11:12:08

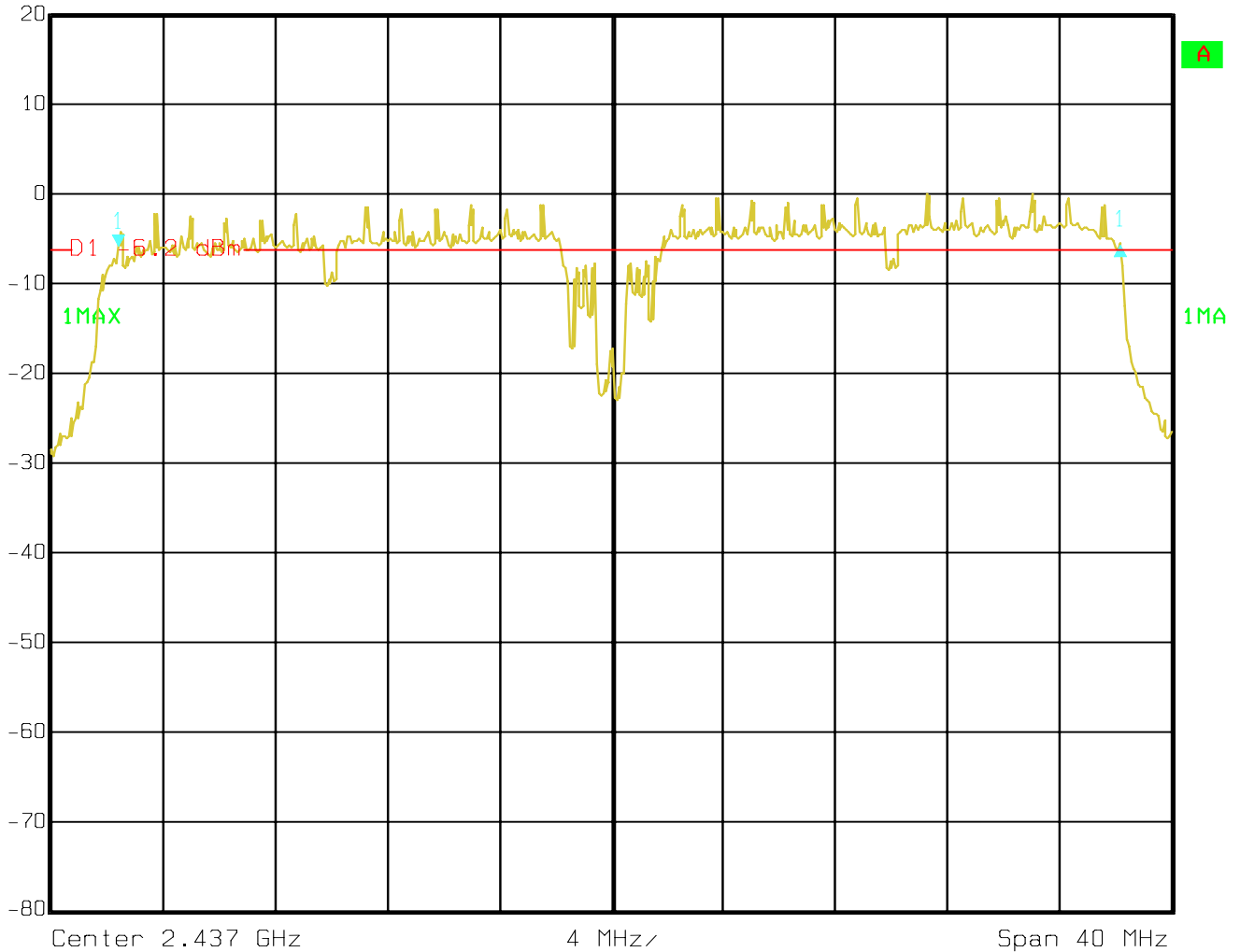
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2. 802.11n at 6Mbps of CH4



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	0.10 dB	VBW	100 kHz		
	35.75150301 MHz	SWT	10 ms	Unit	dBm



Date: 09.AUG.2008 11:06:04

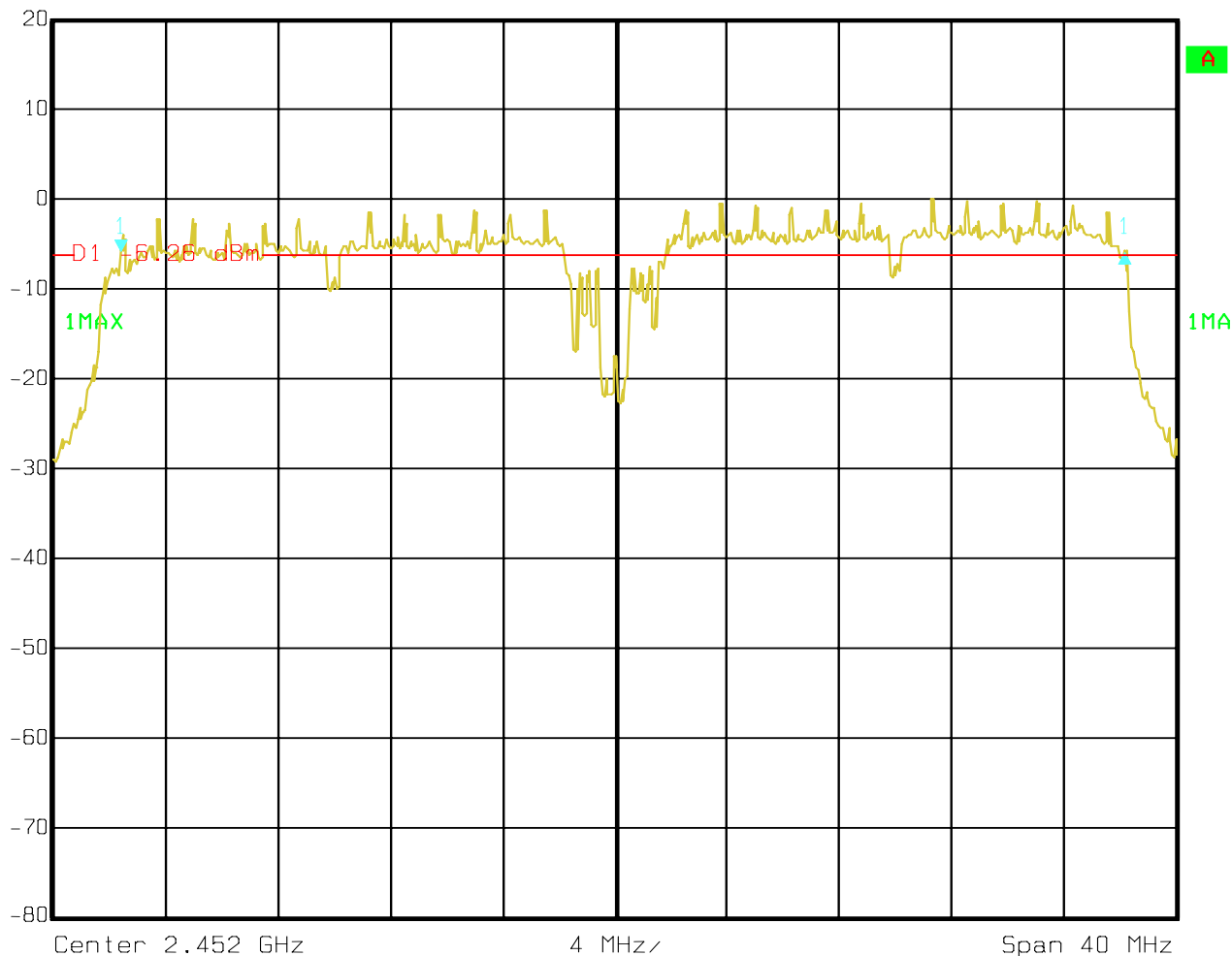
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3. 802.11n at 6Mbps of CH7

	Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	20 dBm	-0.01 dB	VBW	100 kHz		
		35.75150301 MHz	SWT	10 ms	Unit	dBm



Date: 09.AUG.2008 11:07:45

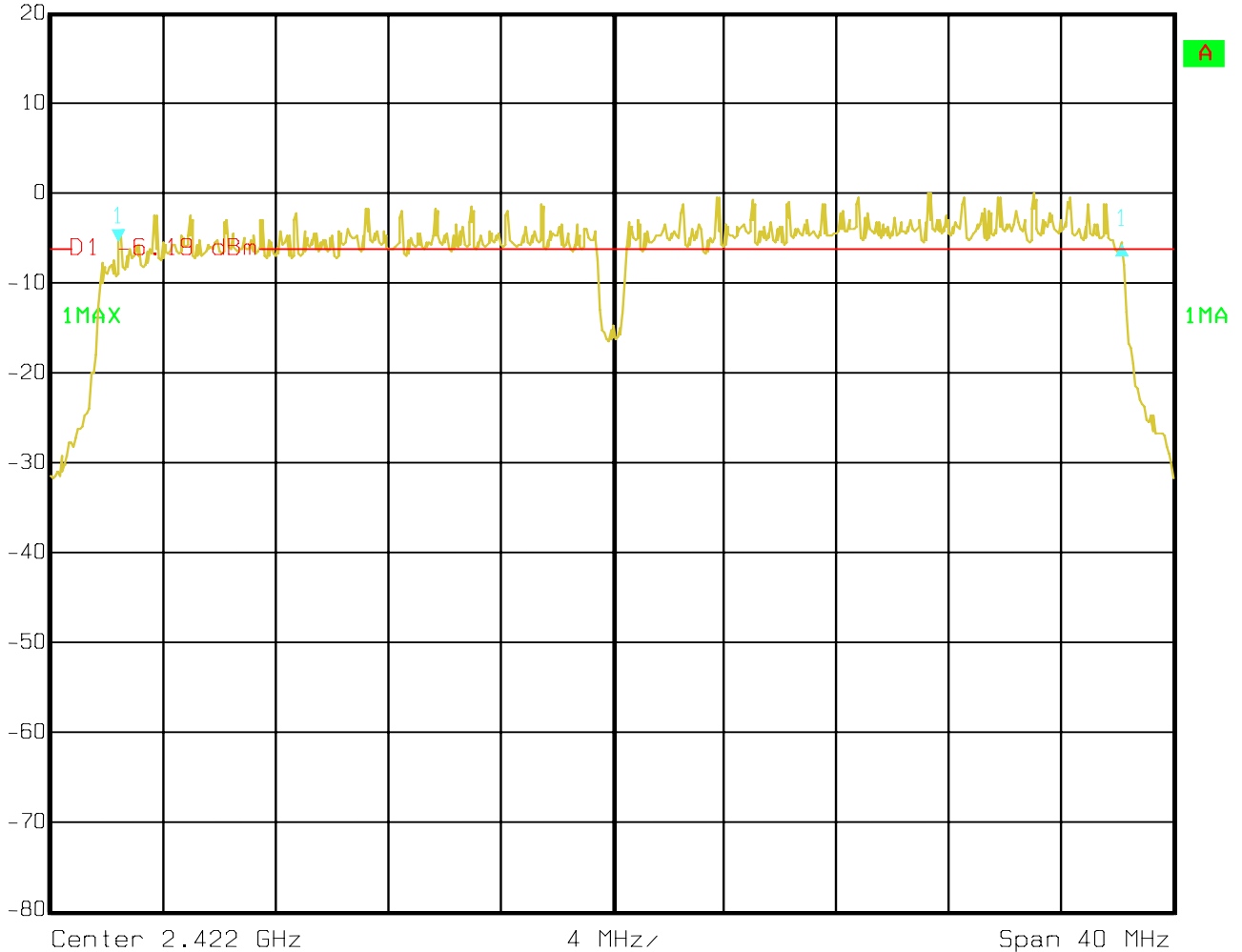
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**4. 802.11n at 130Mbps of CH1**



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.15 dB	VBW	100 kHz	Unit	dBm
	35.75150301 MHz	SWT	10 ms		



Date: 09.AUG.2008 11:10:50

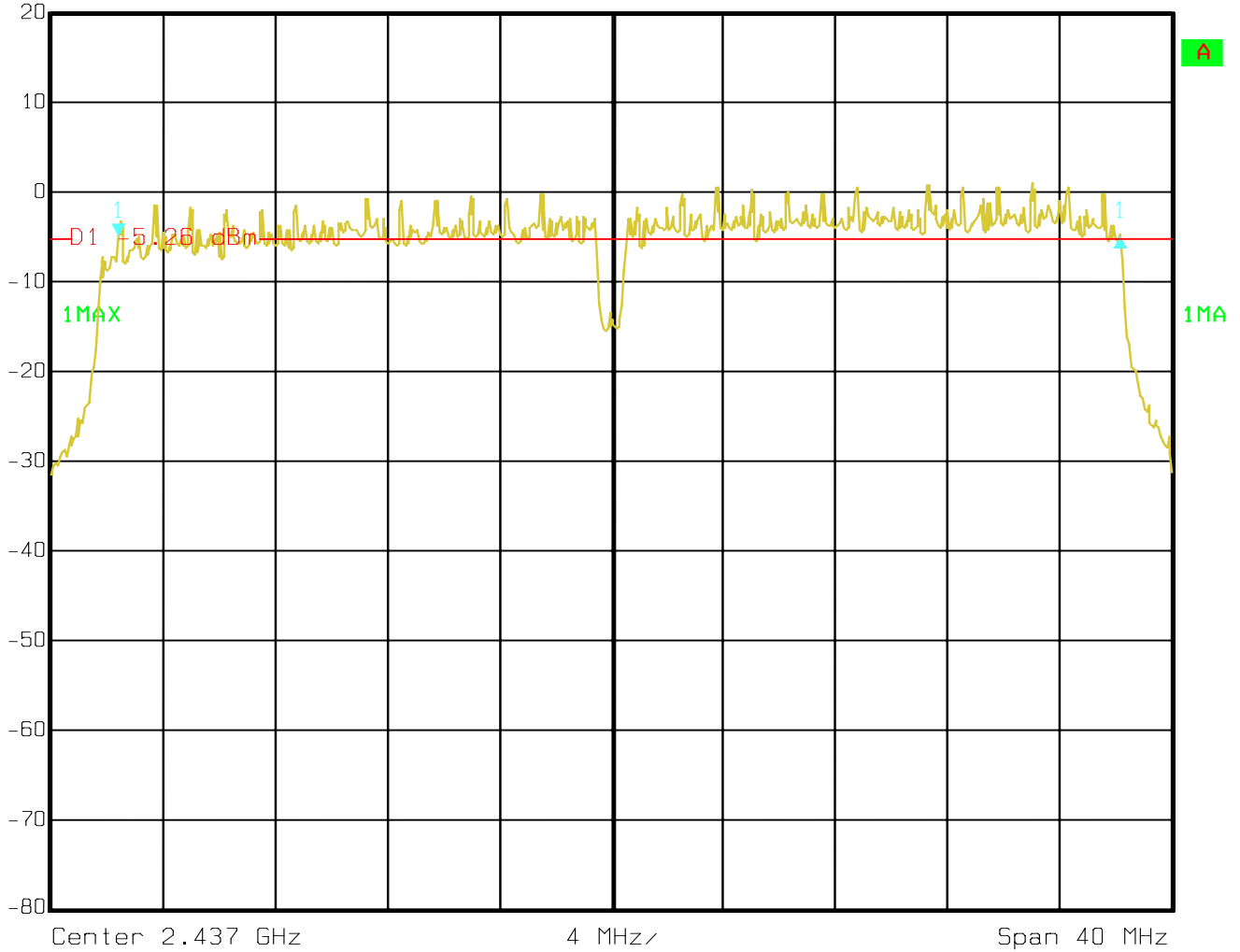
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5. 802.11n at 130Mbps of CH4



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	0.03 dB	VBW	100 kHz		
	35.75150301 MHz	SWT	10 ms	Unit	dBm



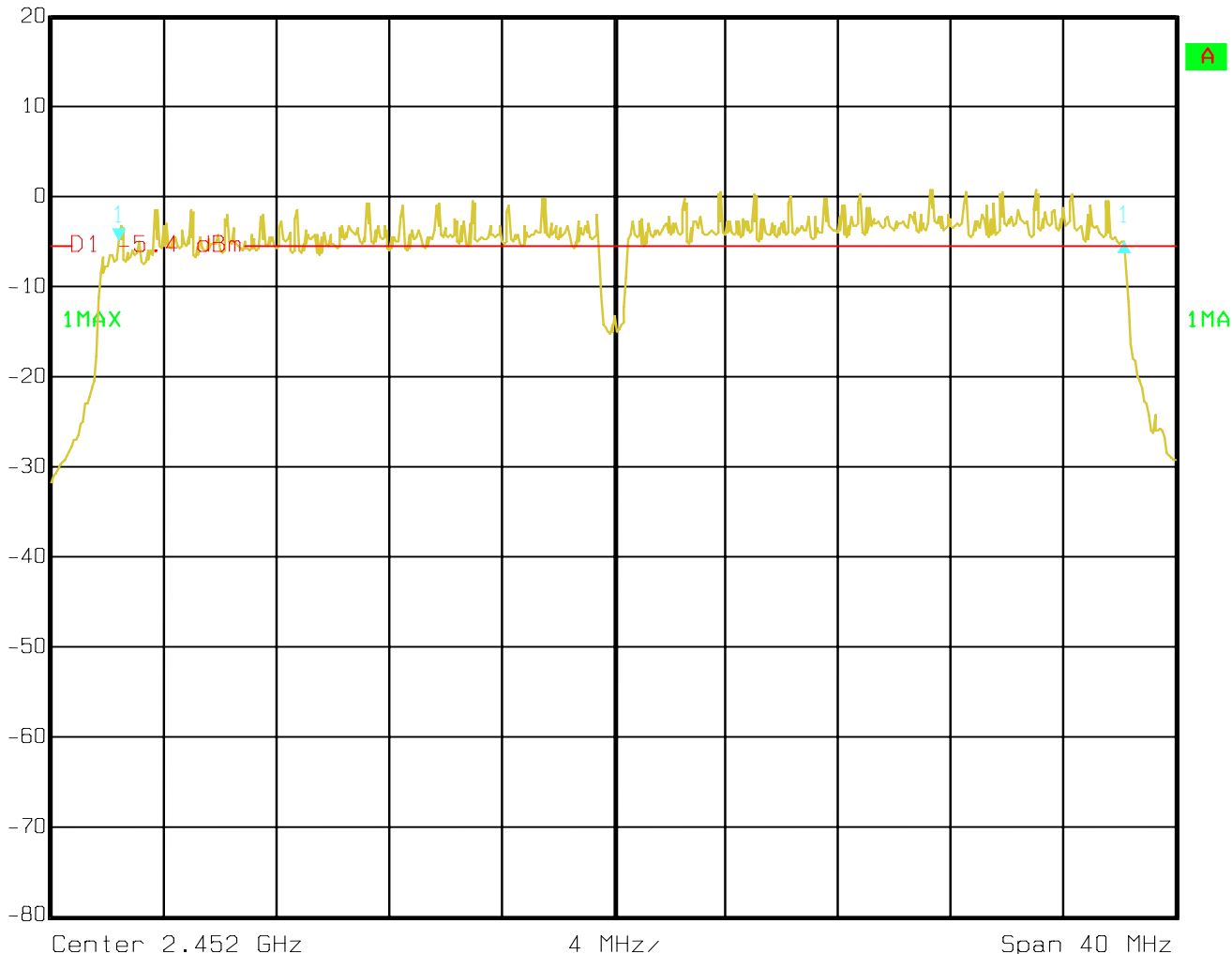
Date: 09.AUG.2008 11:09:44

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6. 802.11n at 130Mbps of CH7

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	0.15 dB	VBW	100 kHz	
	20 dBm	35.75150301 MHz	SWT	10 ms	Unit dBm



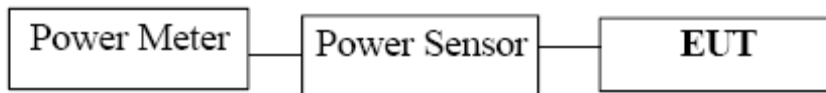
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## 8. Maximum Peak Output Power

### 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**

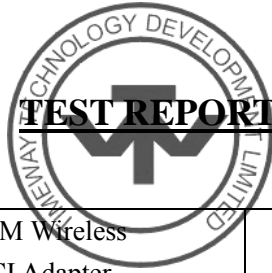
EUT	300M Wireless PCI Adapter		Model	W302P	
Mode	802.11b		Input Voltage	Powered by PC	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail	
1	2412	12.03	30	Pass	
6	2437	12.78	30	Pass	
11	2462	13.75	30	Pass	

- 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:  
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT	300M Wireless PCI Adapter		Model	W302P	
Mode	802.11g		Input Voltage	Powered by PC	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail	
1	2412	12.35	30	Pass	
6	2437	13.57	30	Pass	
11	2462	10.86	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:  
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator

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EUT	300M Wireless PCI Adapter		Model	W302P
Mode	802.11n HT20		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	11.13	30	Pass
6	2437	12.28	30	Pass
11	2462	13.98	30	Pass

- Note: 1. At final test to get the worst-case emission at 130Mbps for CH01, CH06 and CH11  
 2. The result basic equation calculation as follow:  
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator

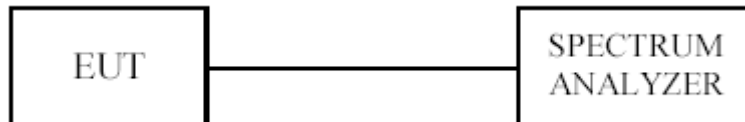
EUT	300M Wireless PCI Adapter		Model	W302P
Mode	802.11n HT40		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2422	11.25	30	Pass
4	2437	13.12	30	Pass
7	2452	11.12	30	Pass

- Note: 1. At final test to get the worst-case emission at 130Mbps for CH01, CH04 and CH07  
 2. The result basic equation calculation as follow:  
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator



## 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 with peak detector used.

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**9.4 Test Result**

EUT	300M Wireless PCI Adapter		Model	W302P	
Mode	802.11b		Input Voltage	Powered by PC	
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	1.22	8	Pass	
6	2437	2.76	8	Pass	
11	2462	1.55	8	Pass	

Note: For 802.11b mode at final test to get the worst-case emission at 11Mbps for CH11, CH06 and CH01

EUT	300M Wireless PCI Adapter		Model	W302P	
Mode	802.11g		Input Voltage	PC 5V	
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	-19.58	8	Pass	
6	2437	-19.03	8	Pass	
11	2462	-18.90	8	Pass	

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

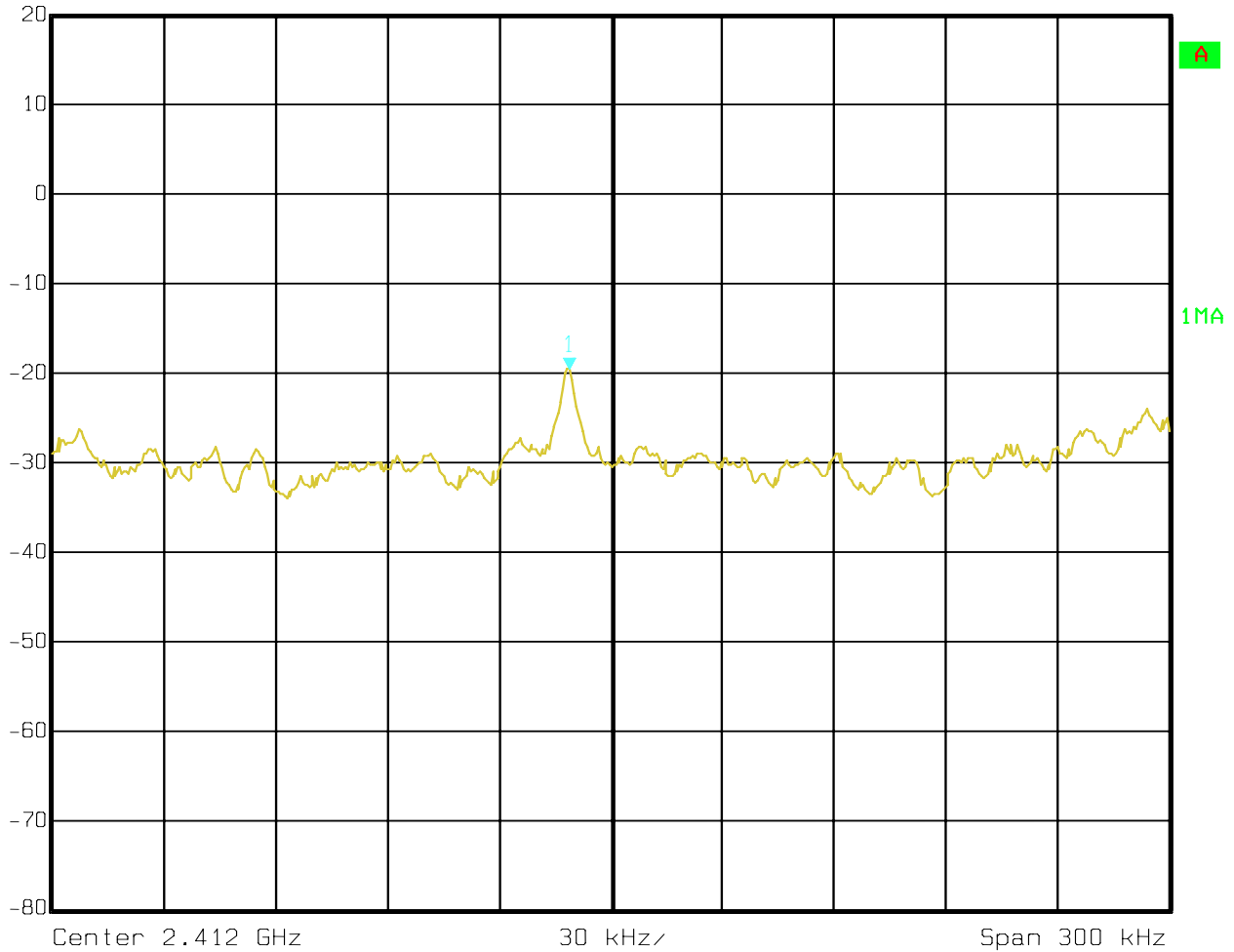
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### 9.5 Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01

	Ref Lvl	Marker 1 [T1]	RBW	3 kHz	RF Att	30 dB
	20 dBm	-19.58 dBm	VBW	10 kHz		
		2.41198888 GHz	SWT	100 s	Unit	dBm



Date: 20.SEP.2008 15:29:09

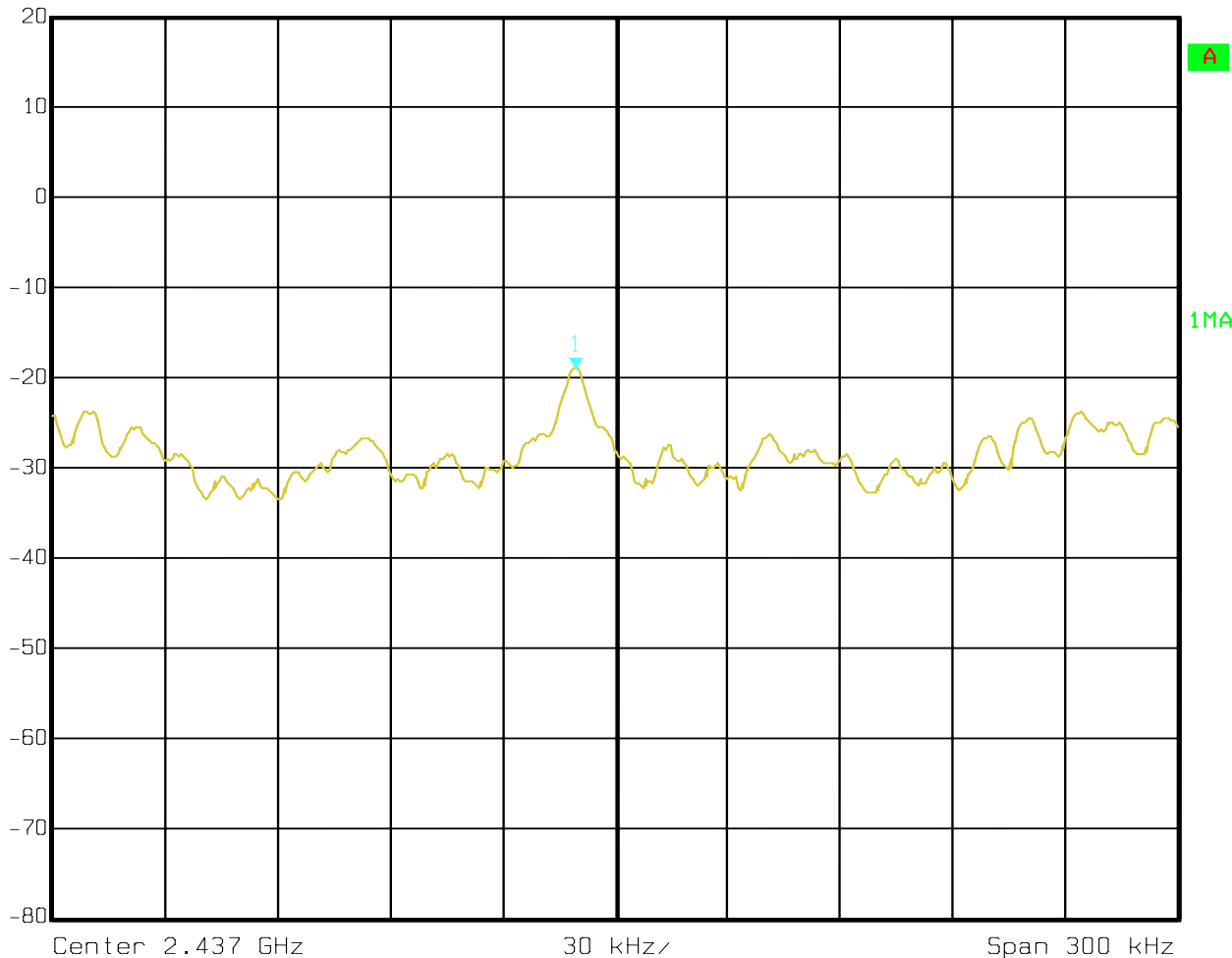
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2. 802.11g at 6Mbps at CH06



Ref Lvl	20 dBm	Marker 1 [T1]	-19.03 dBm	2.43698948 GHz	RBW	3 kHz	RF Att	30 dB
					VBW	10 kHz		
					SWT	100 s	Unit	dBm



Date: 20.SEP.2008 15:25:08

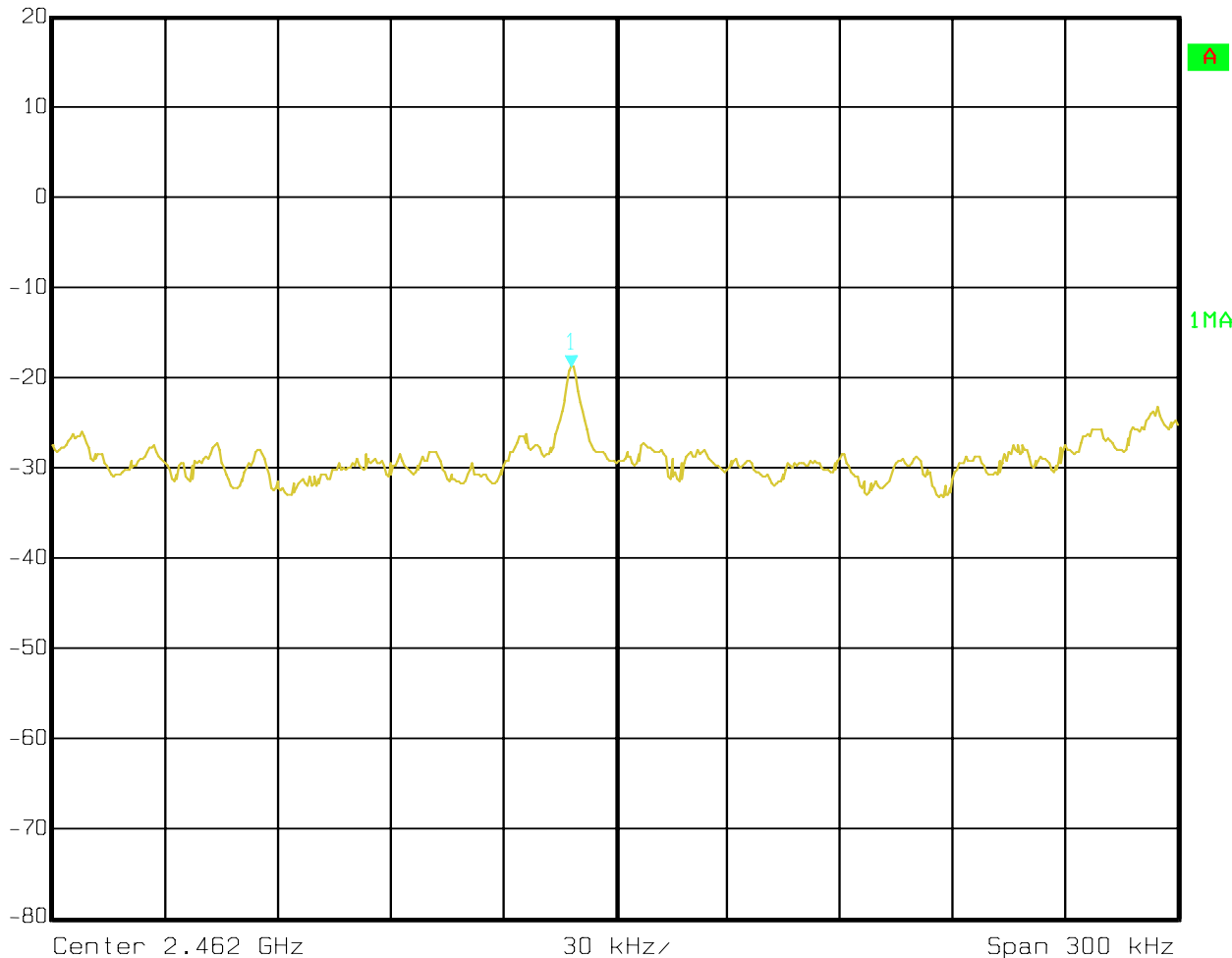
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3. 802.11g at 6Mbps of CH11



Ref Lvl	Marker 1 [T1]	RBW	3 kHz	RF Att	30 dB
20 dBm	-18.90 dBm	VBW	10 kHz		
	2.46198828 GHz	SWT	100 s	Unit	dBm



Date: 20.SEP.2008 15:33:11

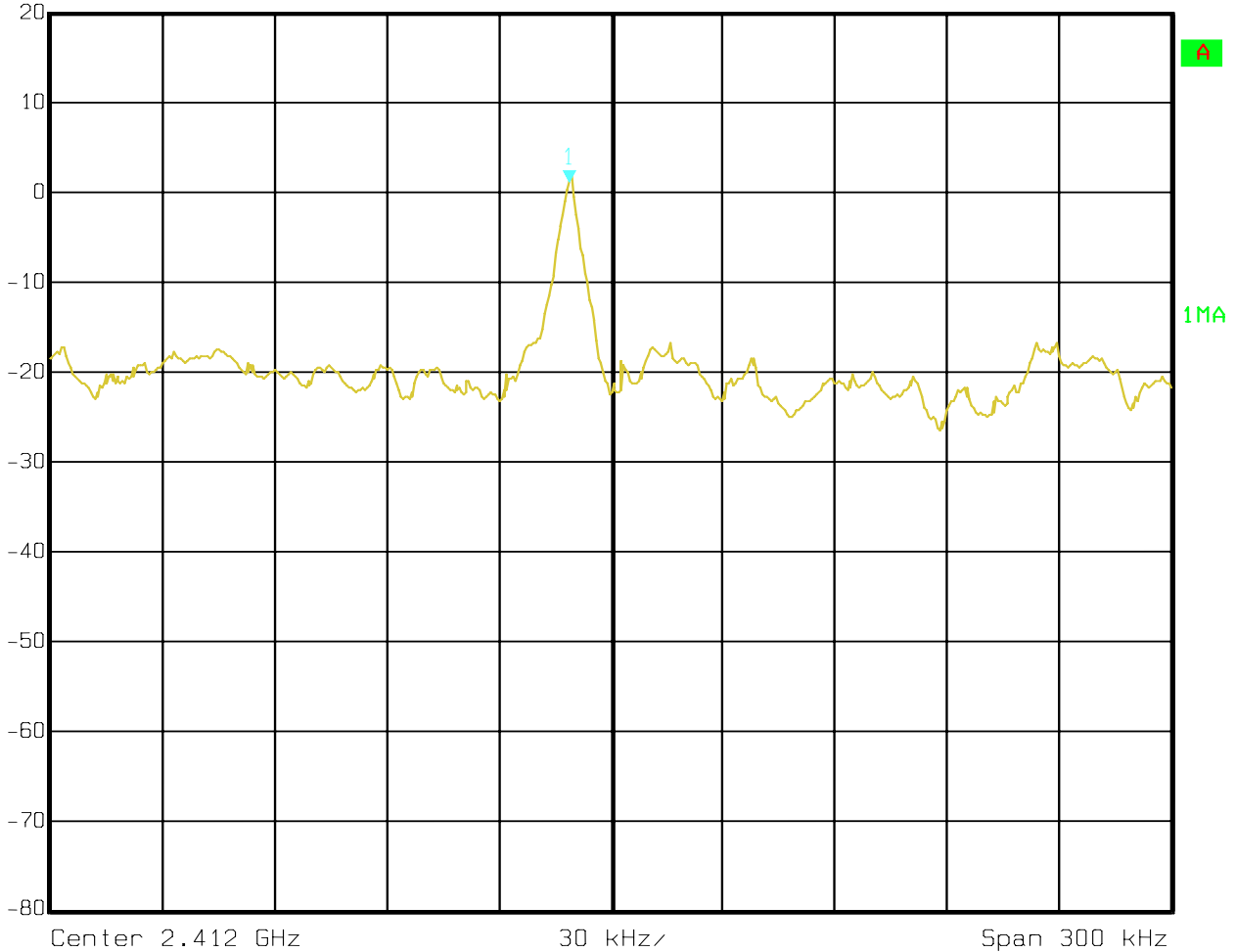
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4. 802.11b at 11Mbps of CH01



Ref Lvl	1.22 dBm	RBW	3 kHz	RF Att	30 dB
20 dBm	2.41198888 GHz	VBW	10 kHz	Unit	dBm
		SWT	100 s		



Date: 20.SEP.2008 15:43:21

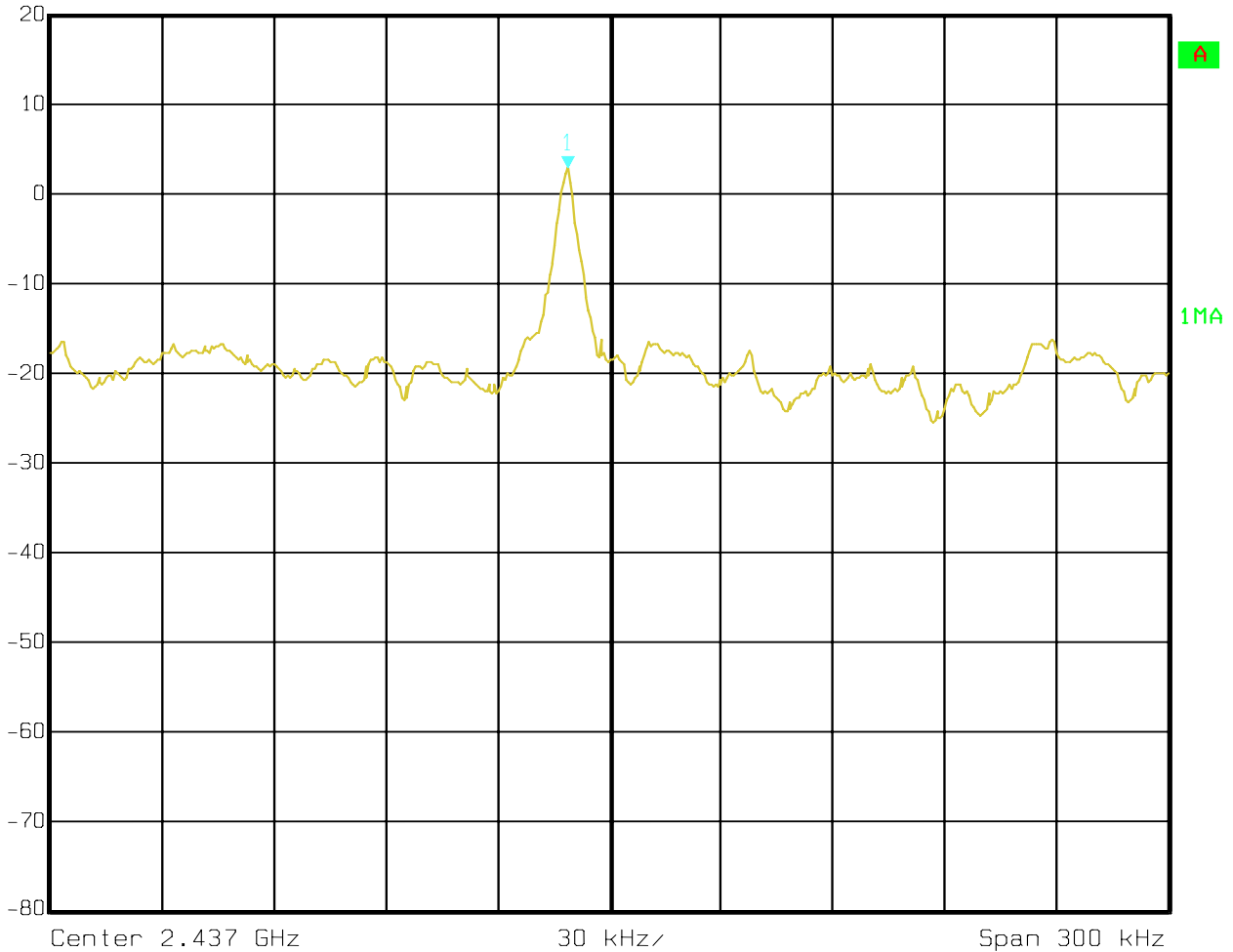
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5. 802.11b at 11Mbps of CH06



Ref Lvl	2.76 dBm	RBW	3 kHz	RF Att	30 dB
20 dBm	2.43698888 GHz	VBW	10 kHz	Unit	dBm
		SWT	100 s		



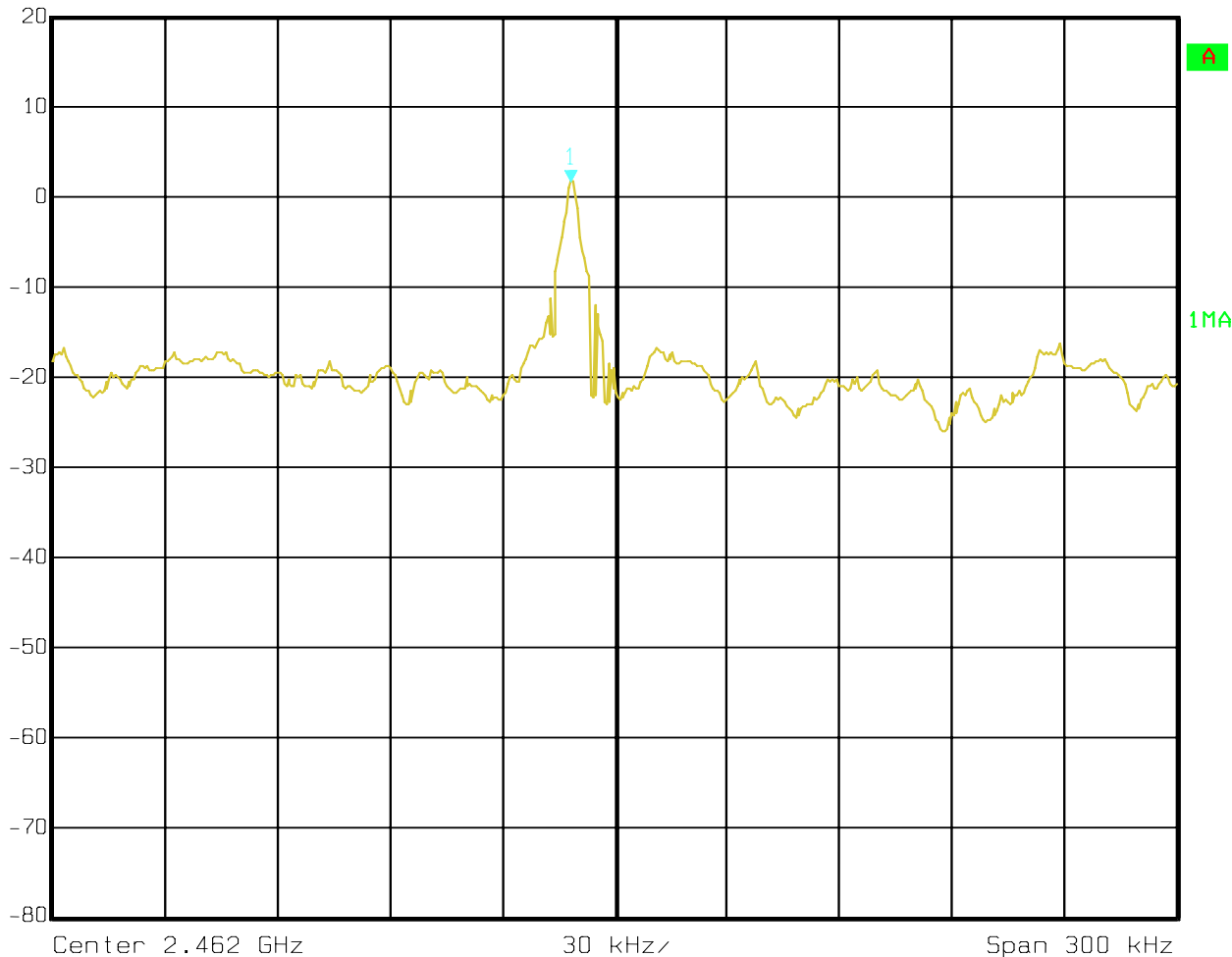
Date: 20.SEP.2008 15:39:45

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6. 802.11b at 11Mbps of CH11

 Marker 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl 1.55 dBm VBW 10 kHz  
20 dBm 2.46198828 GHz SWT 100 s Unit dBm



Date: 20.SEP.2008 15:36:18

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EUT	300M Wireless PCI Adapter		Model	W302P
Mode	802.11n HT20		Input Voltage	Powered by PC
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	-27.56	8	Pass
6	2437	-28.00	8	Pass
11	2462	-26.50	8	Pass

Note: For 802.11n HT20 mode at final test to get the worst-case emission at 6Mbps for CH11, CH06 and CH01

EUT	300M Wireless PCI Adapter		Model	W302P
Mode	802.11n HT40		Input Voltage	PC 5V
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	-29.87	8	Pass
4	2437	-30.38	8	Pass
7	2462	-29.15	8	Pass

Note: For 802.11n HT40 mode at final test to get the worst-case emission at 6Mbps for CH07, CH04 and CH01

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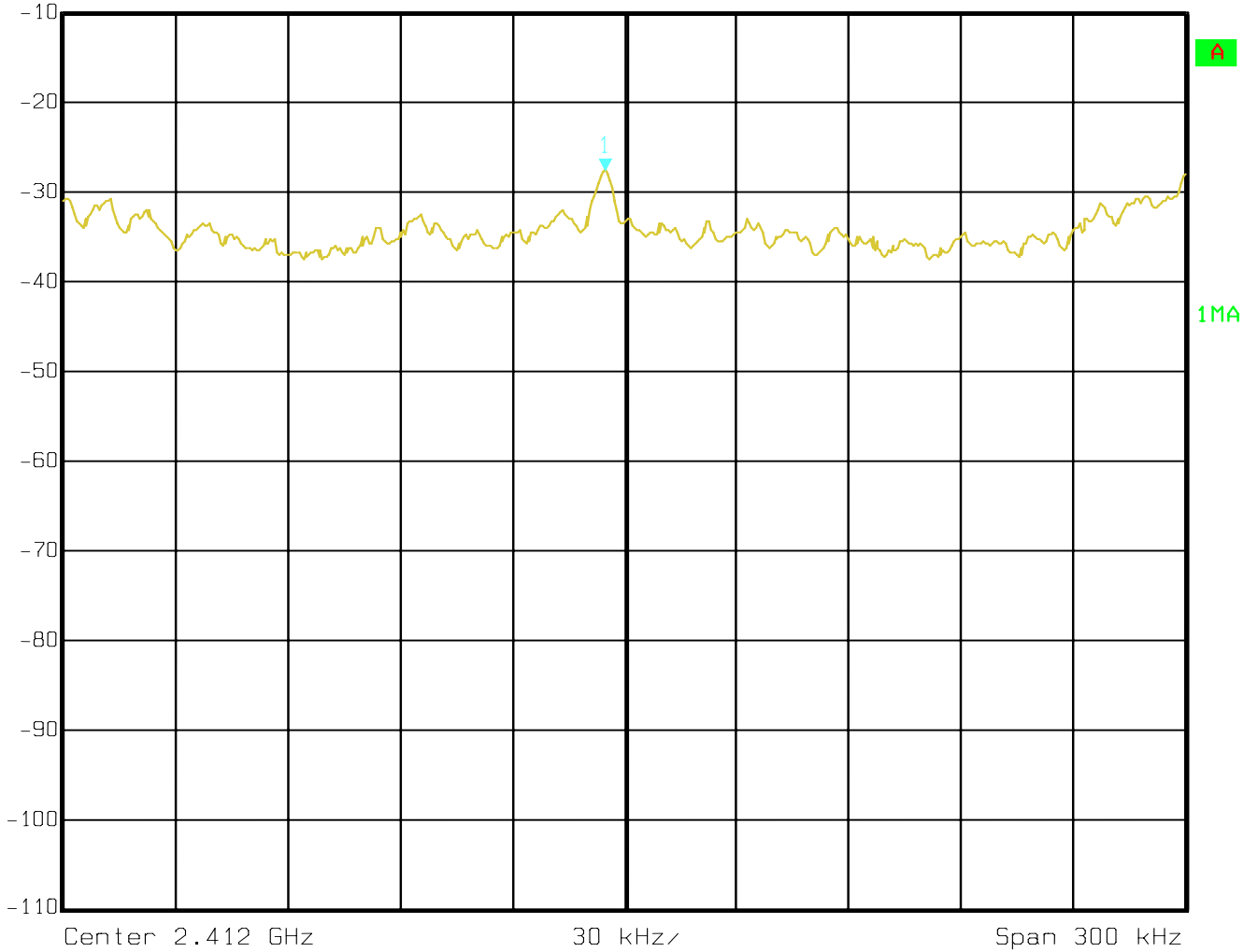




1. 802.11n HT20 at 6Mbps of CH01



Ref Lvl	-10 dBm	Marker 1 [T1]	-27.56 dBm	RBW	3 kHz	RF Att	10 dB
			2.41199489 GHz	VBW	10 kHz	Unit	dBm
				SWT	100 s		



Date: 20.AUG.2008 11:06:49

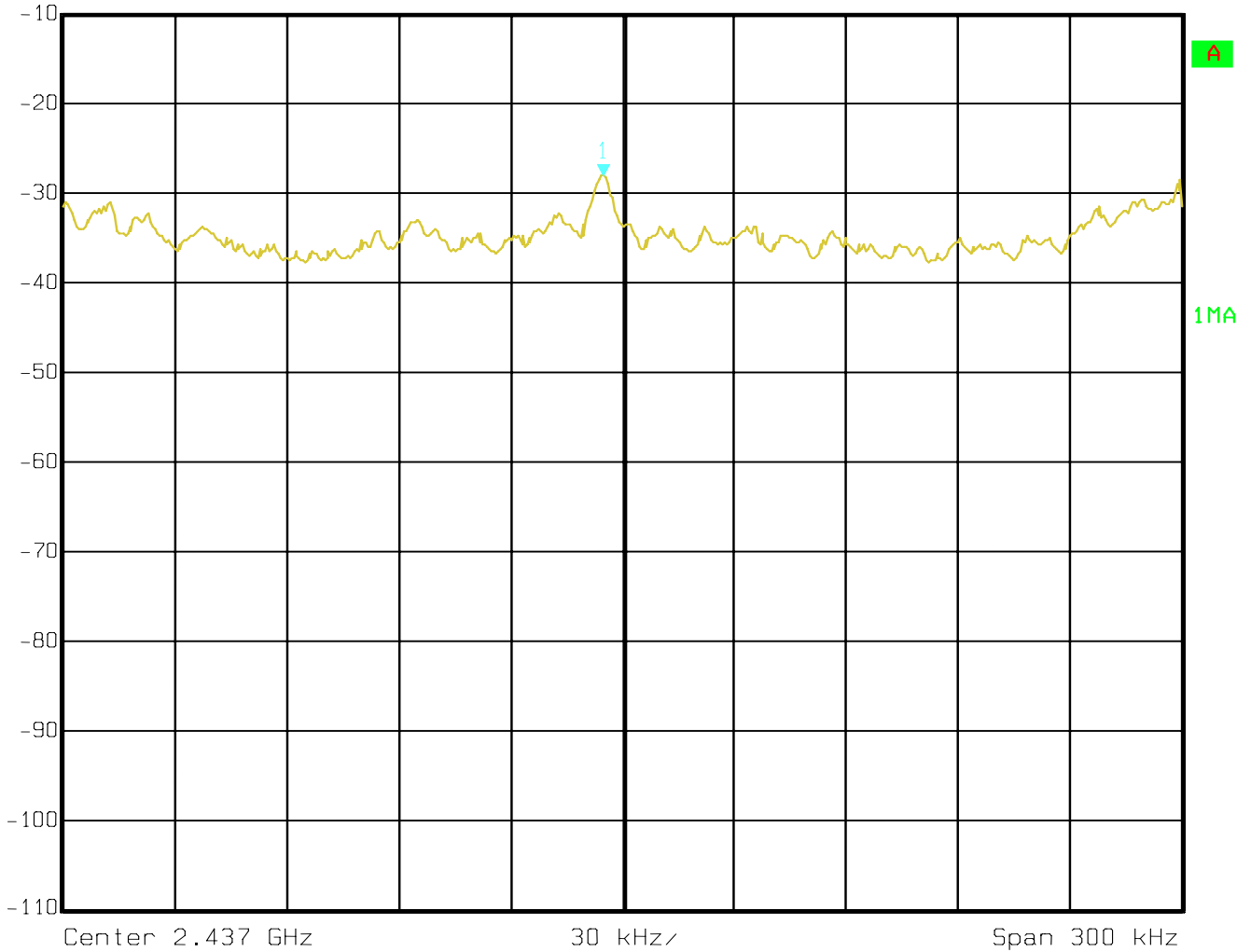
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2. 802.11n HT20 at 6Mbps of CH06



Ref Lvl -10 dBm  
Marker 1 [T1] -28.00 dBm  
2.43699489 GHz  
RBW 3 kHz  
RF Att 10 dB  
VBW 10 kHz  
SWT 100 s  
Unit dBm



Date: 20.AUG.2008 11:14:26

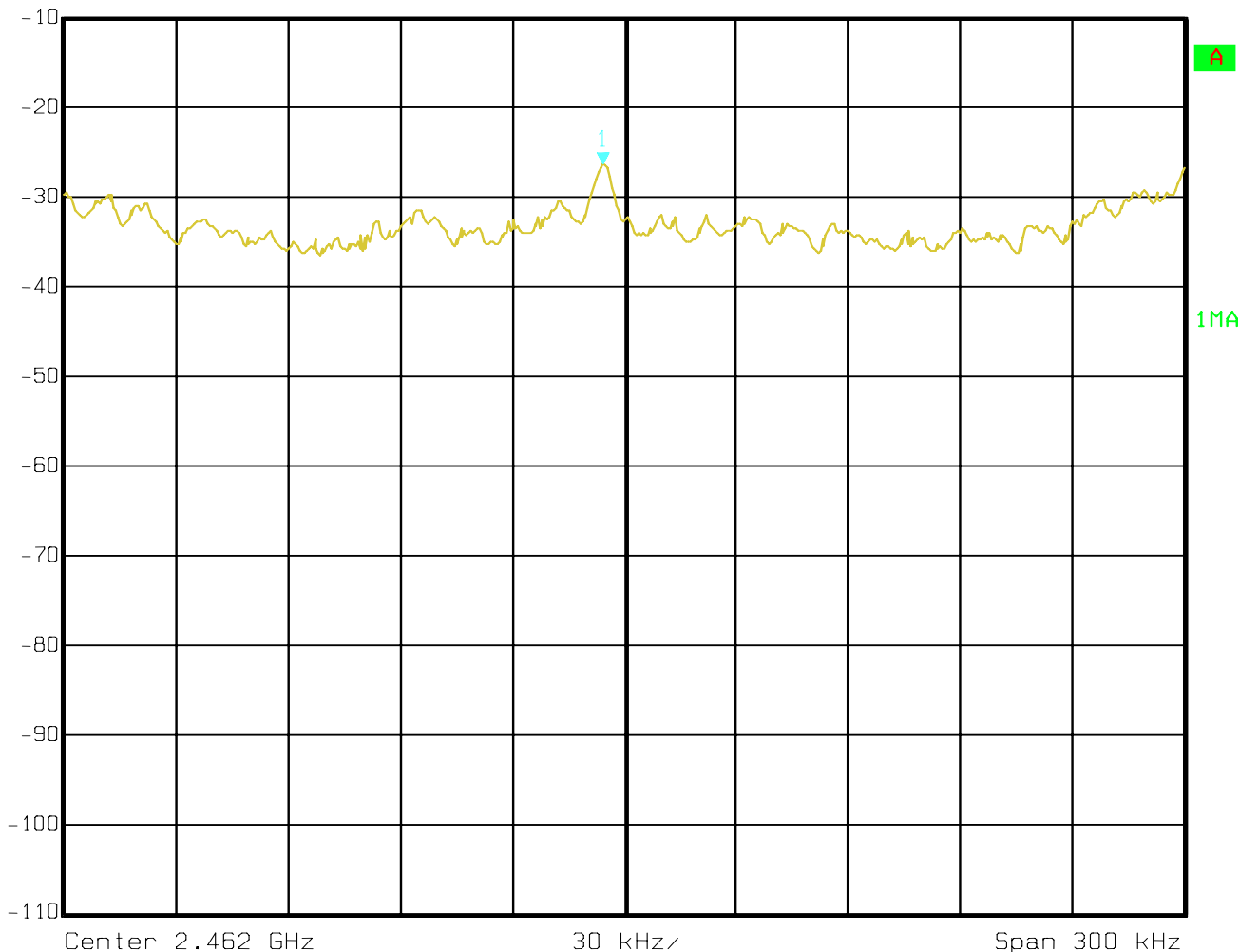
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3. 802.11n HT20 at 6Mbps of CH011



Marker 1 [T1] RBW 3 kHz RF Att 10 dB  
Ref Lvl -26.50 dBm VBW 10 kHz  
-10 dBm 2.46199429 GHz SWT 100 s Unit dBm



Date: 20.AUG.2008 11:22:09

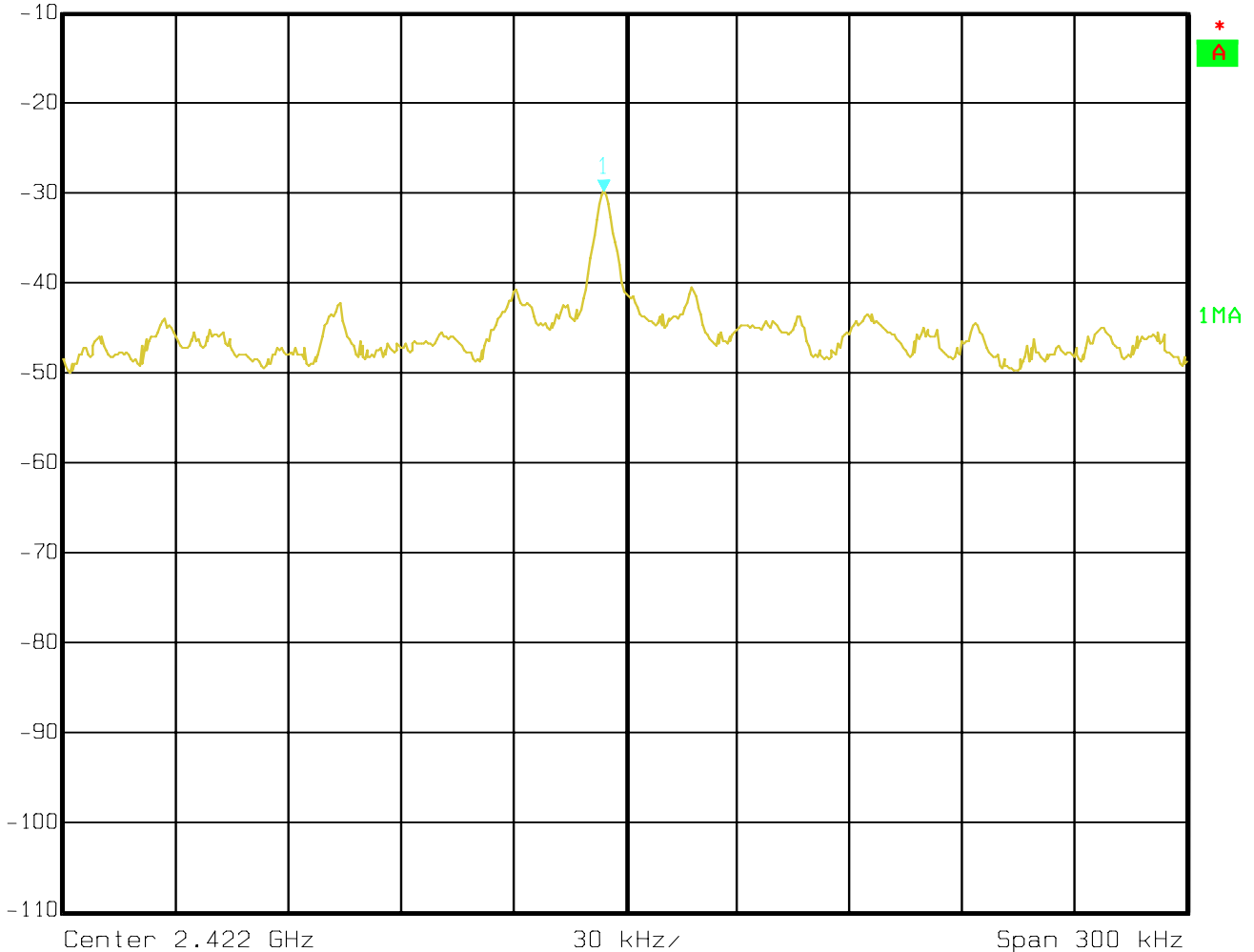
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4. 802.11n HT40 at 6Mbps of CH01



Marker 1 [T1] RBW 3 kHz RF Att 10 dB  
Ref Lvl -29.87 dBm VBW 10 kHz  
-10 dBm 2.42199429 GHz SWT 100 s Unit dBm



Date: 20.AUG.2008 10:46:55

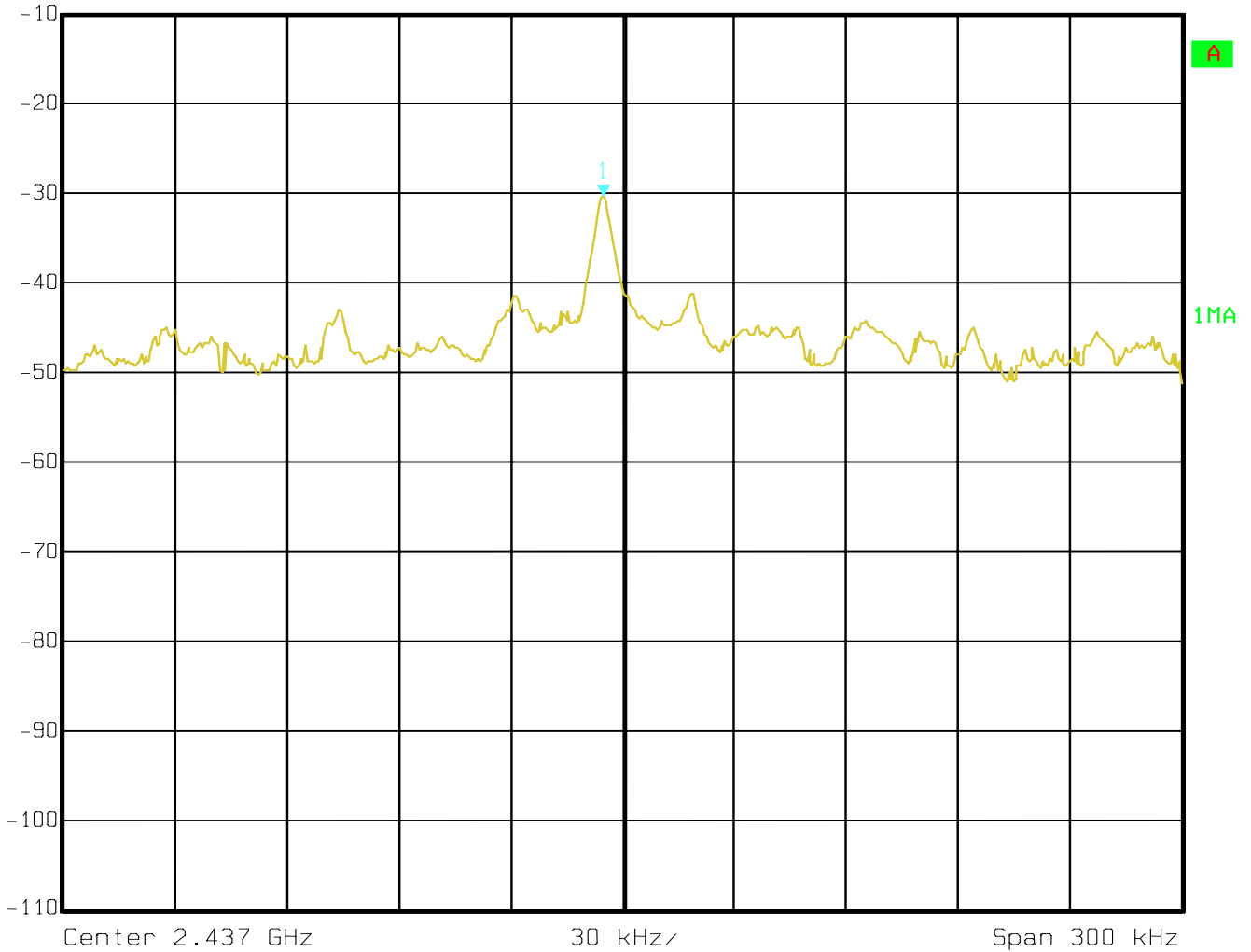
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4. 802.11n HT40 at 6Mbps of CH04



Ref Lvl -10 dBm  
Marker 1 [T1] -30.38 dBm  
2.43699489 GHz  
RBW 3 kHz  
RF Att 10 dB  
VBW 10 kHz  
SWT 100 s  
Unit dBm

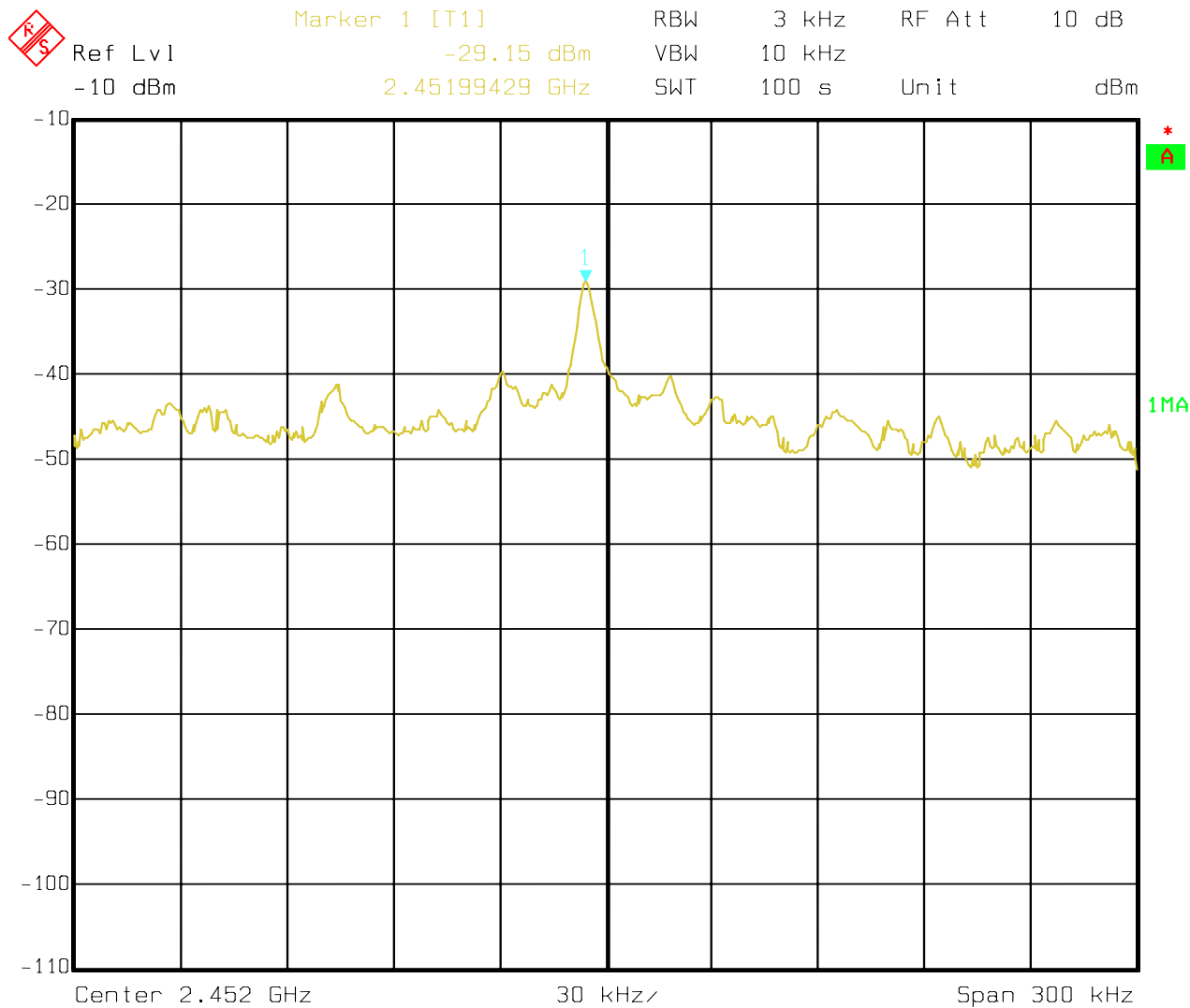


Date: 20.AUG.2008 11:00:42

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6. 802.11n HT40 at 6Mbps of CH07



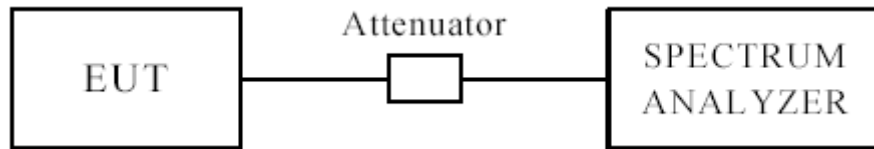
Date: 20.AUG.2008 11:02:12

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## 10 Out of Band Measurement

### 10.1 Test Setup for bandedge



The restricted band requirement based on radiated emission test; please see the clause 6 for the 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 radiated emission test. PK setting:  $\text{RBW}=\text{VBW}=1\text{MHz}$ ; AV setting:  $\text{RBW}=1\text{MHz}$ ,  $\text{VBW}=10\text{Hz}$

For bandage test, the spectrum set as follows:  $\text{RBW}=\text{VBW}=100\text{ kHz}$ . A conducted measurement used with peak detector

### 10.4 Test Result

Please see next pages

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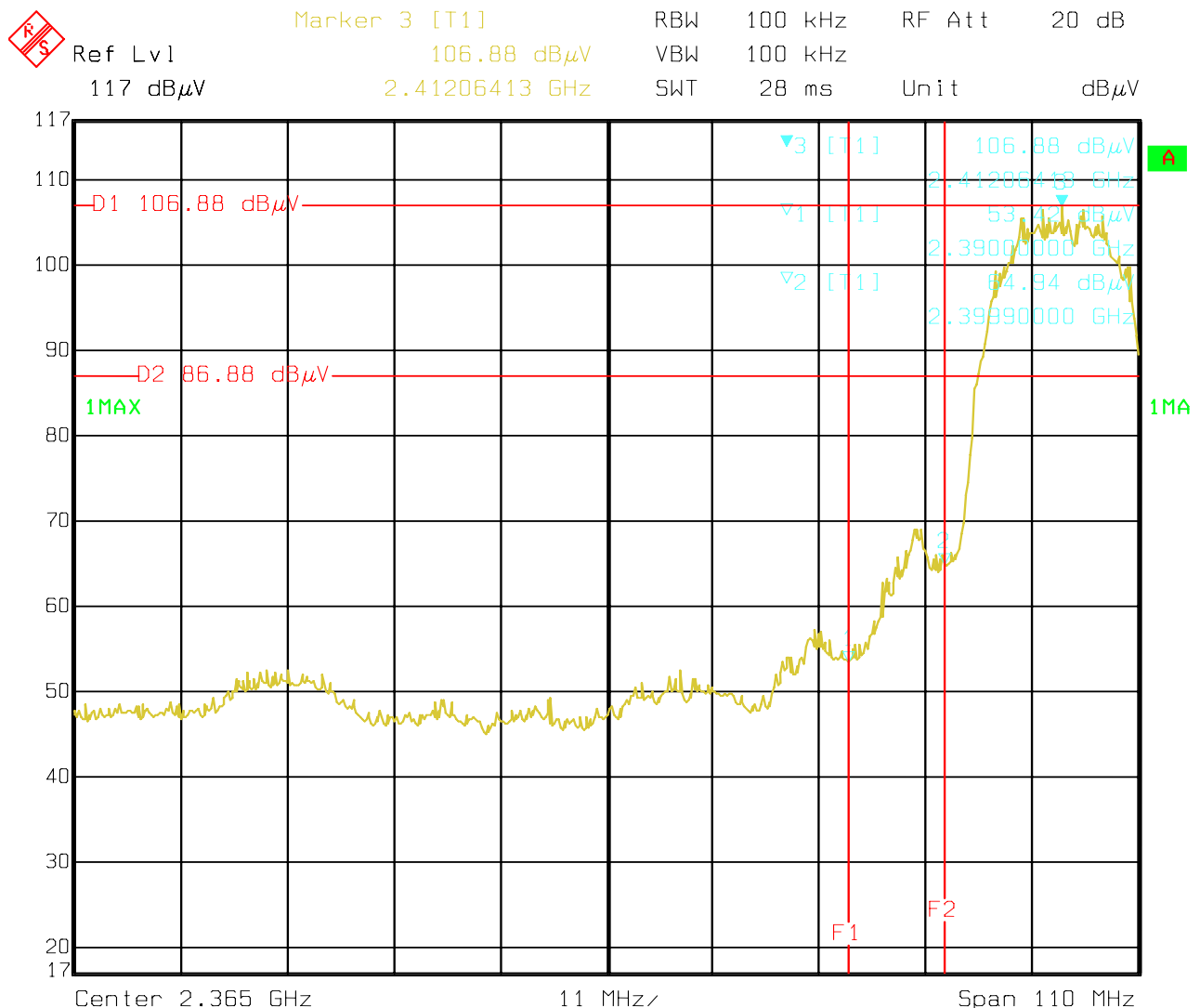
For 802.11b mode

CH01 at 11Mbps

**10.4 Restricted band and bandedge Measurement**

Product:	300M Wireless PCI Adapter		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB $\mu$ V/m)	56.6(V)/54.5(H)	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	42.5(V)40.3(H)		54(dB $\mu$ V/m)

**Test Figure:**



Date: 19.SEP.2008 16:03:49

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

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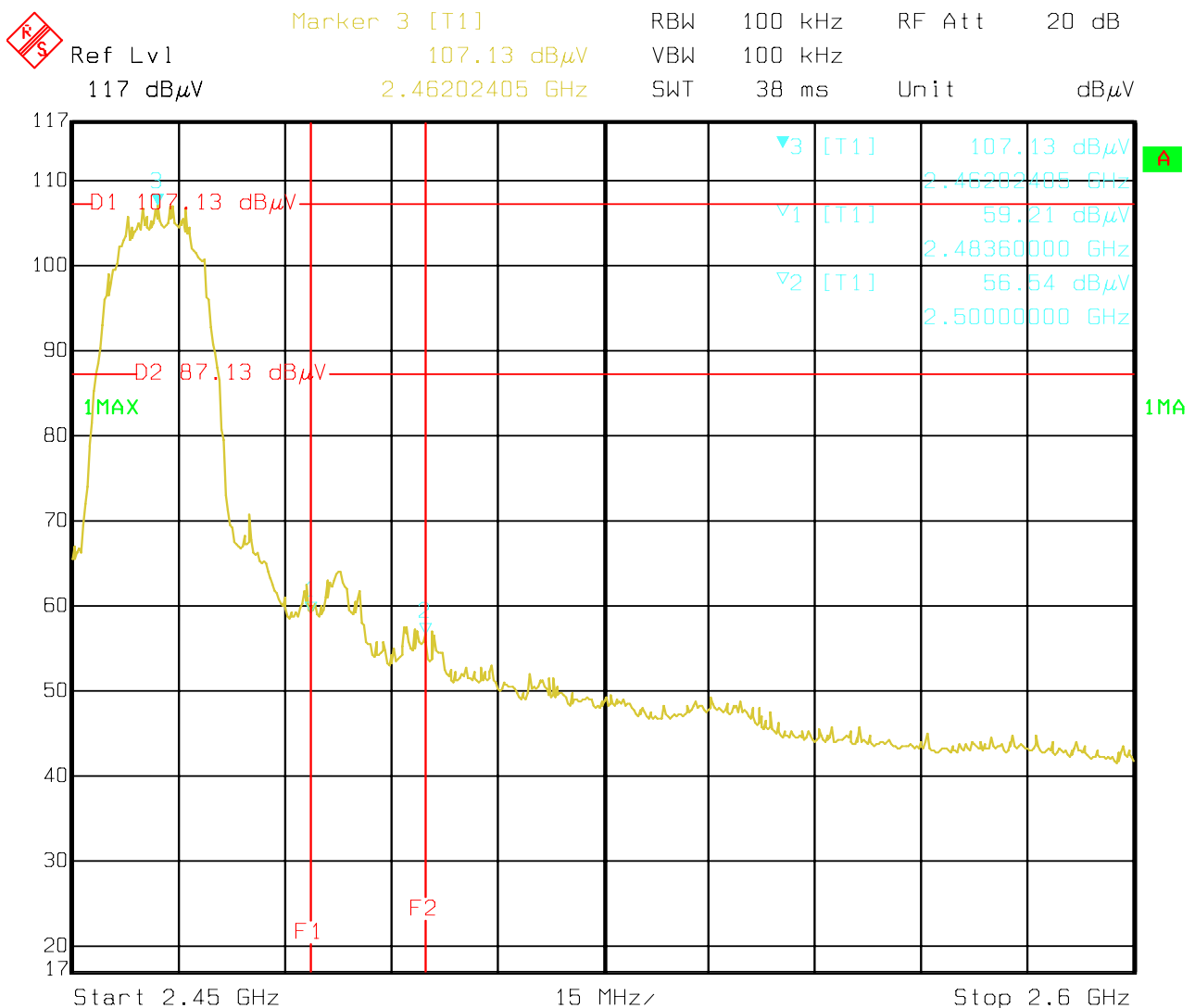


CH11 at 11Mbps

**10.4 Restricted band and bandedge Measurement**

Product:	300M Wireless PCI Adapter		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	58.4(V)/55.4(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	46.7(V)/43.6(H)		54(dBμV/m)

**Test Figure:**



Date: 19.SEP.2008 16:01:57

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

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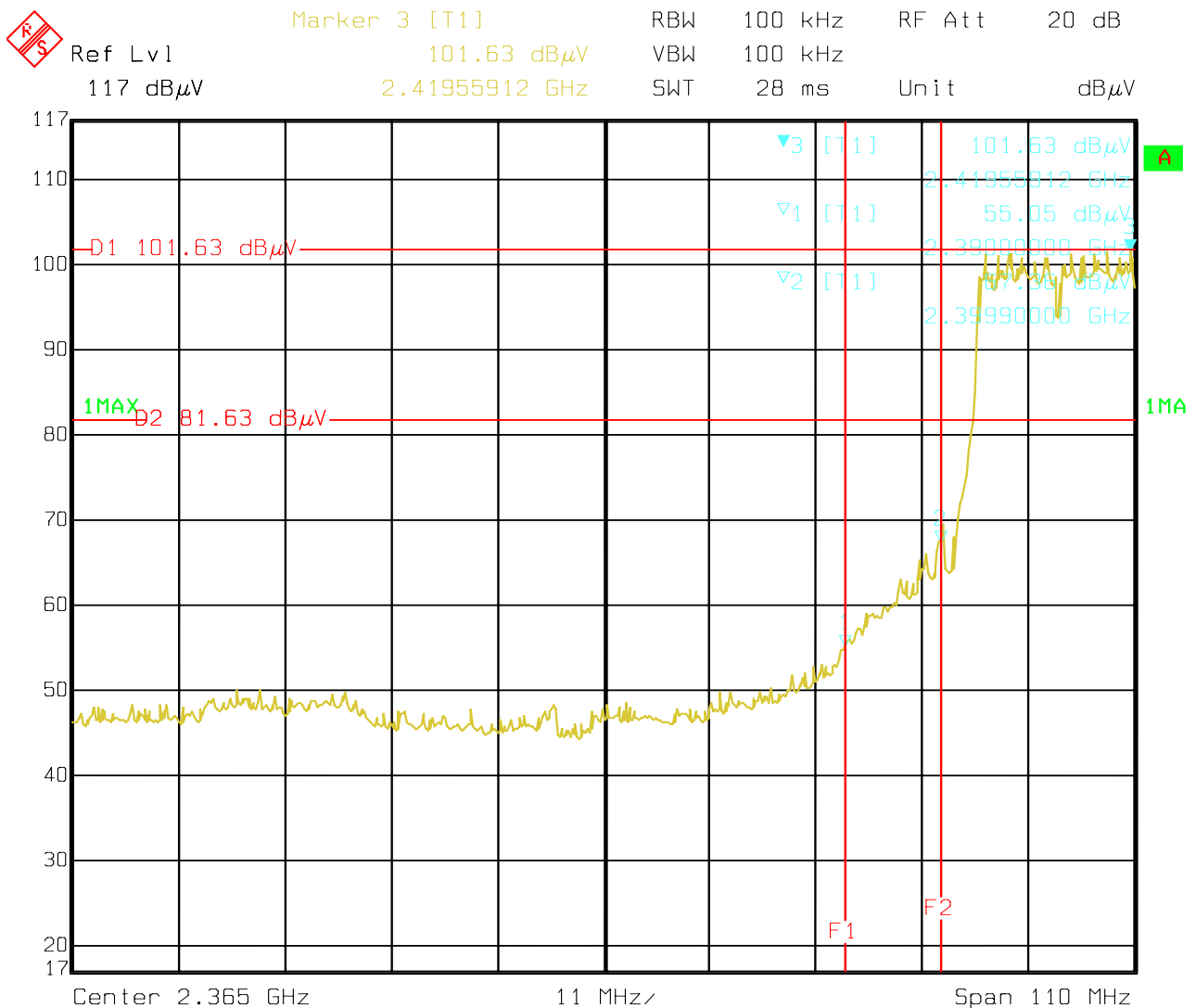
For 802.11g mode

CH01 at 6Mbps

10.4 Restricted band and bandedge Measurement

Product:	300M Wireless PCI Adapter		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	57.8(V)/53.2(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	44.9(V)/40.9(H)		74(dBμV/m)

Test Figure:



Date: 19.SEP.2008 16:04:55

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

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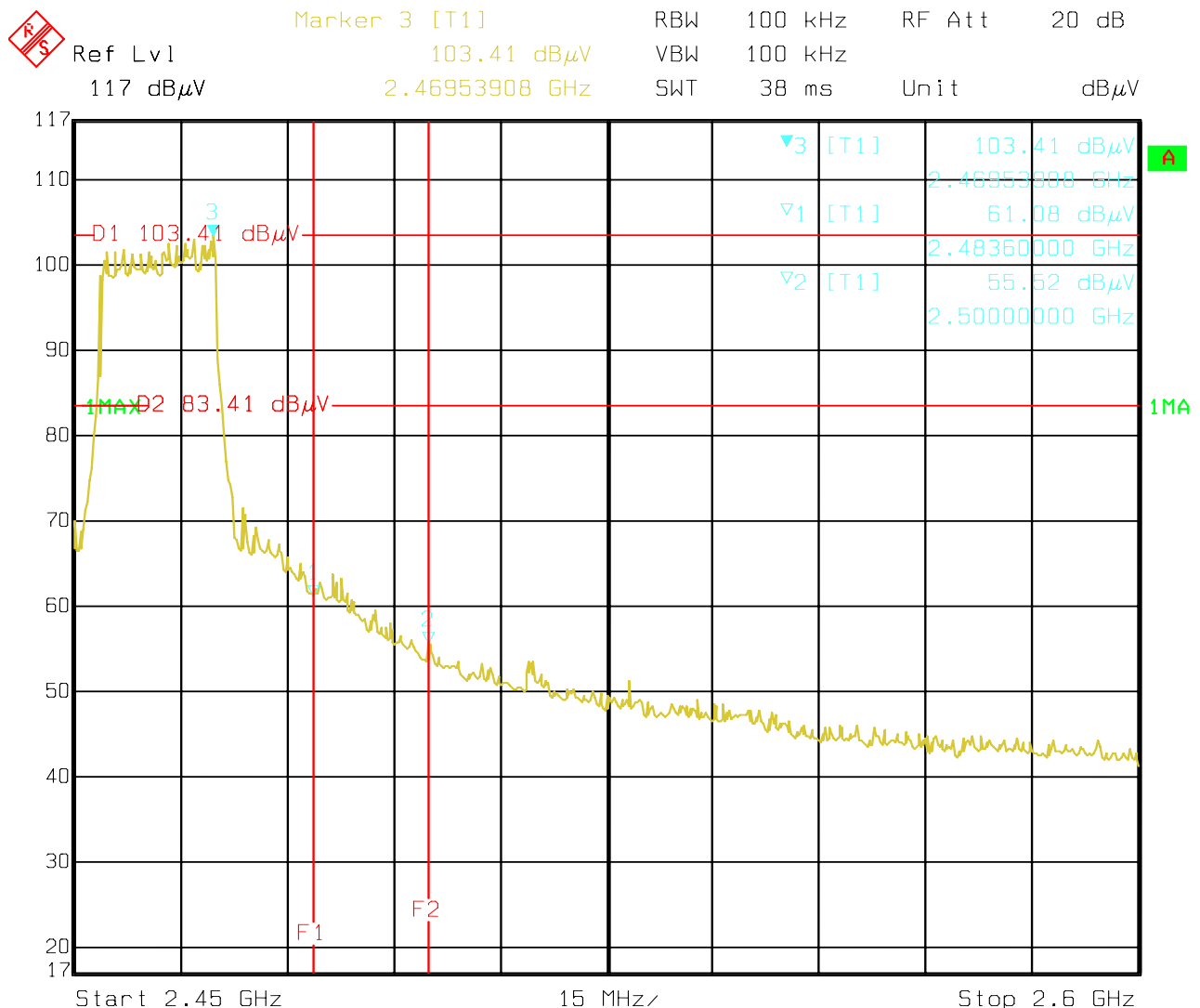


CH11 at 6Mbps

**10.4 Restricted band and bandedge Measurement**

Product:	300M Wireless PCI Adapter		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB $\mu$ V/m)	53.6(V)/52.6(H)	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	40.2(V)/40.1(H)		54(dB $\mu$ V/m)

**Test Figure:**



Date: 19.SEP.2008 16:00:49

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

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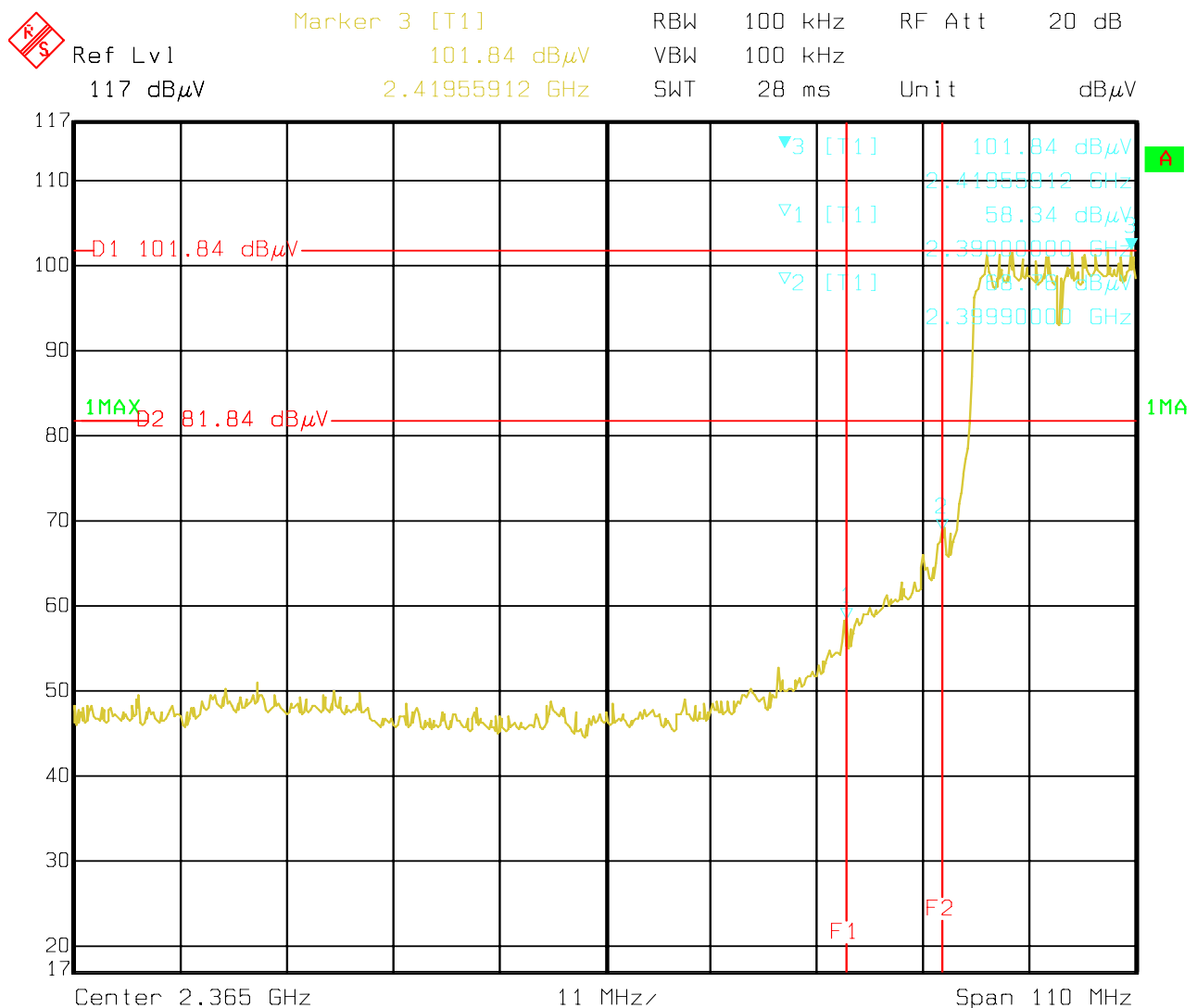


CH1 at HT20 130Mbps

**10.4 Restricted band and bandedge Measurement**

Product:	300M Wireless PCI Adapter		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	52.1(V)/48.8(H)	Limit	74(dBμV/m)
	PK (dBμV/m)	39.2(V)/36.0(H)		54(dBμV/m)

**Test Figure:**



Date: 19.SEP.2008 16:06:11

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

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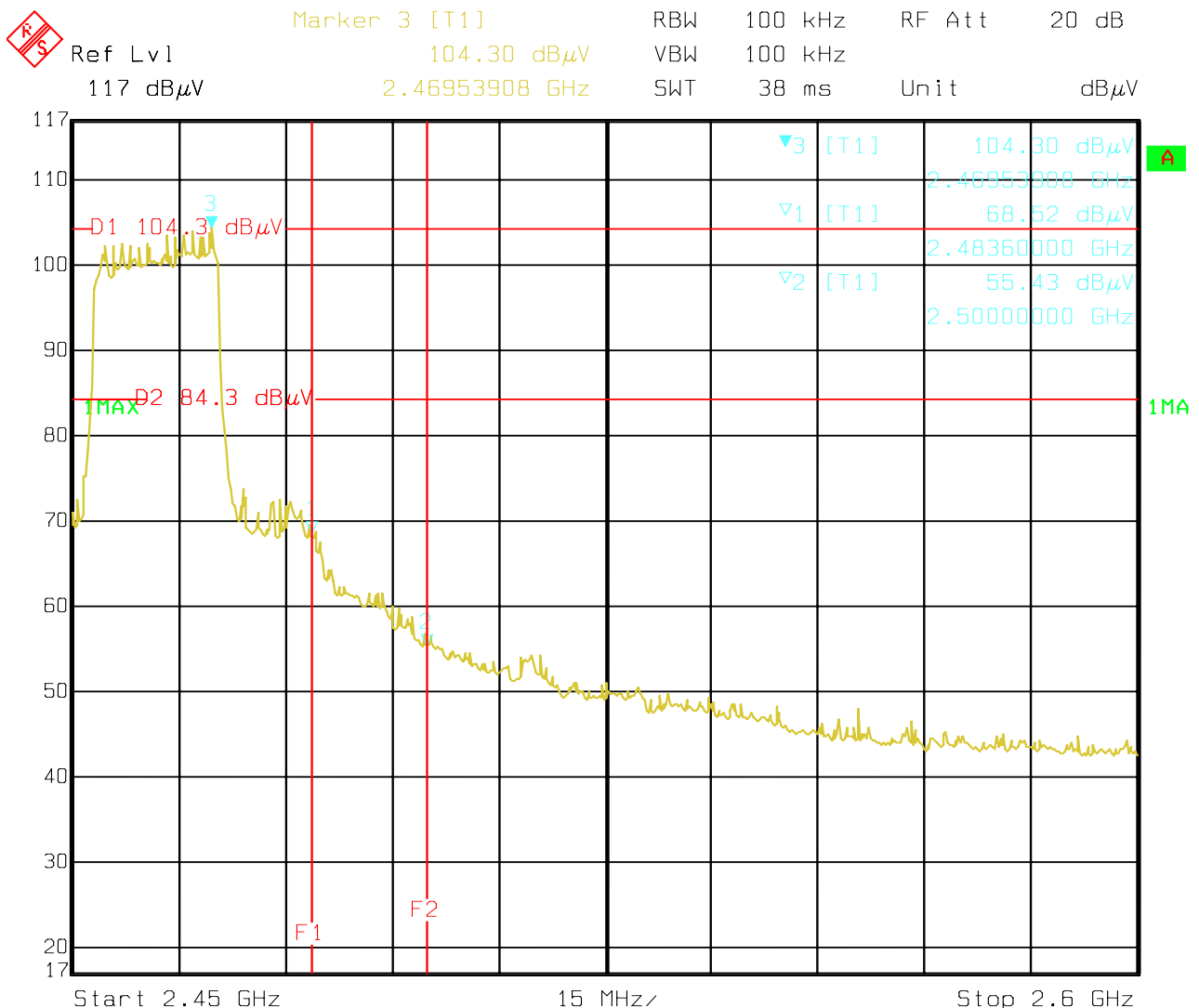


802.11n  
CH11 at HT20 130Mbps

**10.4 Restricted band and bandedge Measurement**

Product:	300M Wireless PCI Adapter		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	59.2(V)/56.4(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	46.8(V)/44.3(H)		54(dBμV/m)

**Test Figure:**



Date: 19.SEP.2008 15:58:34

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

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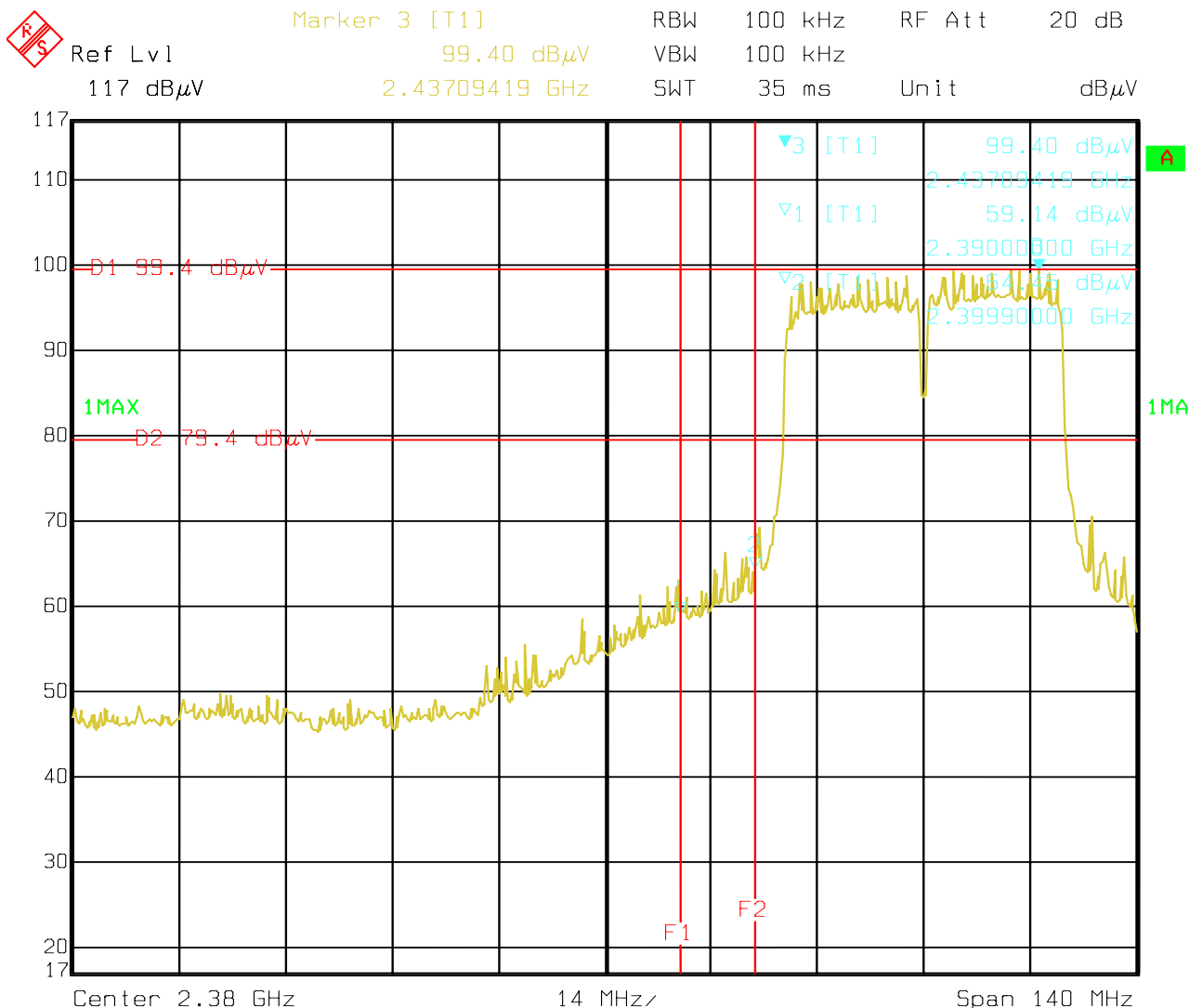


802.11n  
CH1 at HT40 130Mbps

**10.4 Out of Band Test Result**

Product:	300M Wireless PCI Adapter		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	56.1(V)/53.2(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	42.5(V)/40.5(H)		54(dBμV/m)

**Test Figure:**



Date: 19.SEP.2008 16:07:32

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

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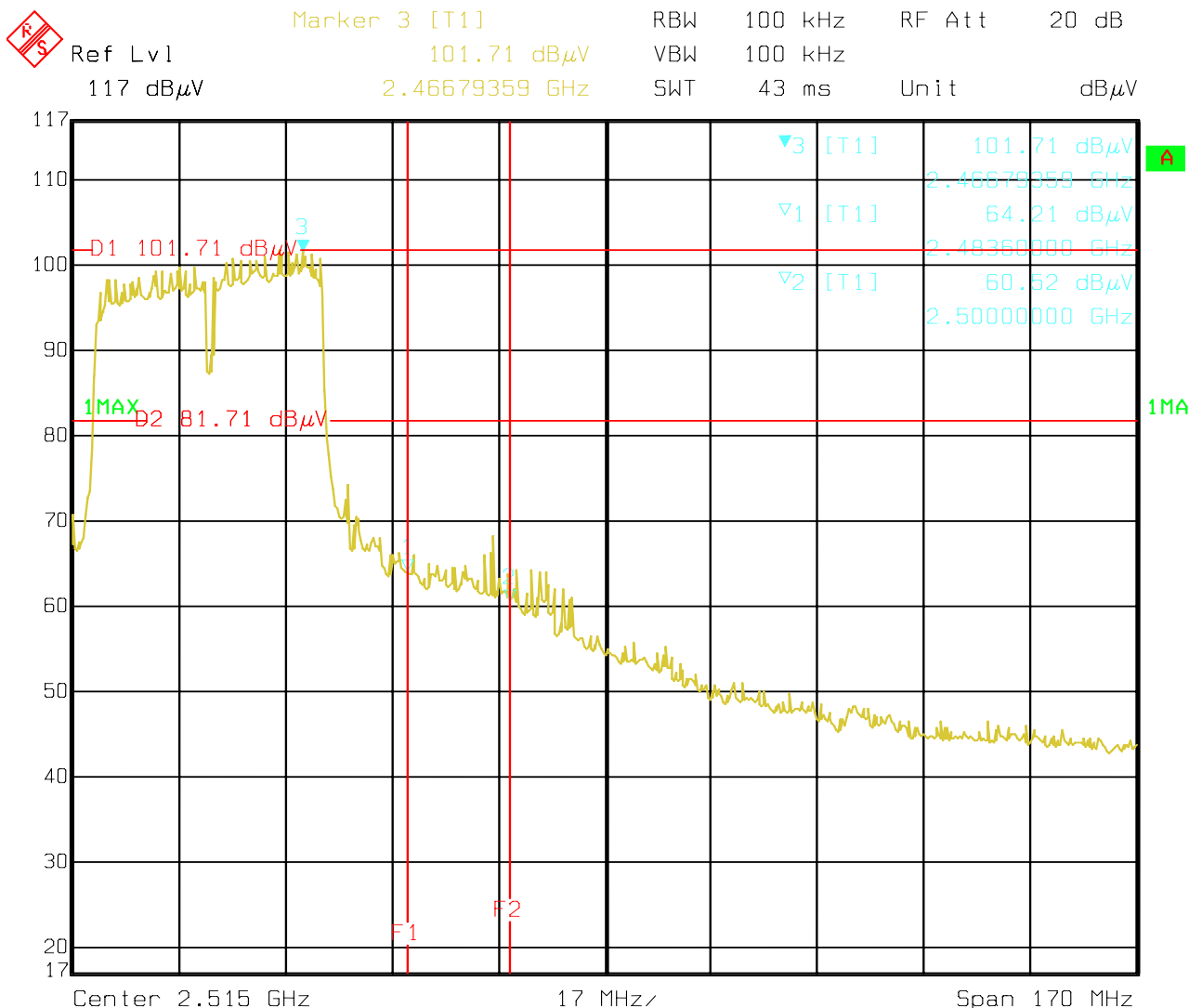


802.11n  
CH07 at HT40 130Mbps

**10.4 Out of Band Test Result**

Product:	300M Wireless PCI Adapter		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	Powered by PC
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	54.6(V)/50.3(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	42.0(V)/37.9(H)		54(dBμV/m)

**Test Figure:**



Date: 19.SEP.2008 15:56:04

**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.. The antenna type used in this product is Dipole antenna with reverse polarity SMA connector. The maximum Gain of this antenna is 1.8dBi.

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## 12.0 Maximum Permissible Exposure

### Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

#### (a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

#### (b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; \*Plane-wave equivalent power density

### MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

**E** = Electric Field (V/m)

**P** = Peak RF output Power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

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**Calculated Result and Limit**

## 802.11b Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.5136	13.75	23.714	0.00714	1	Compiles

## 802.11g Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.5136	13.57	22.751	0.00685	1	Compiles

For 802.11n HT20, we get the worse case

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.5136	13.98	25.003	0.00753	1	Compiles

For 802.11n HT40

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.5136	13.12	20.512	0.00618	1	Compiles

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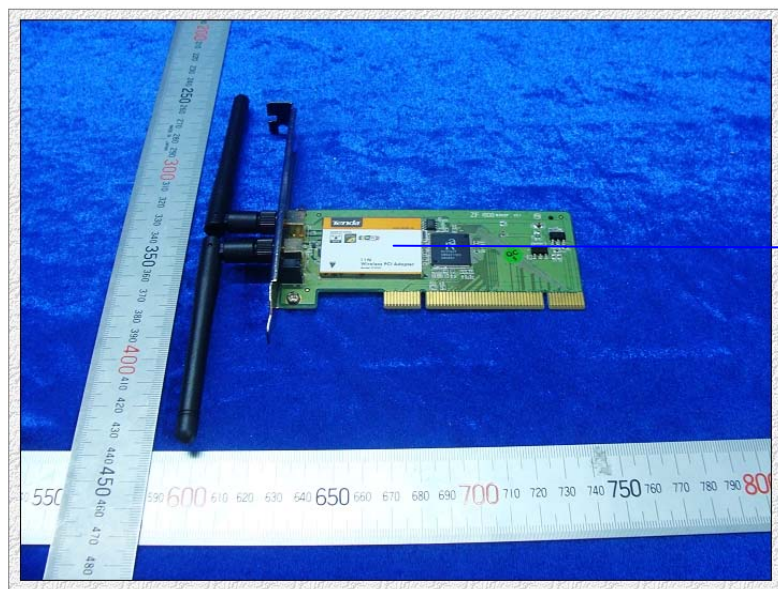
**13.0 FCC ID Label**

**FCC ID: V7TW302P**

**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:**



FCC ID Label Location

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#### 14.0 Photo of testing

##### 14.1 Conducted test View--



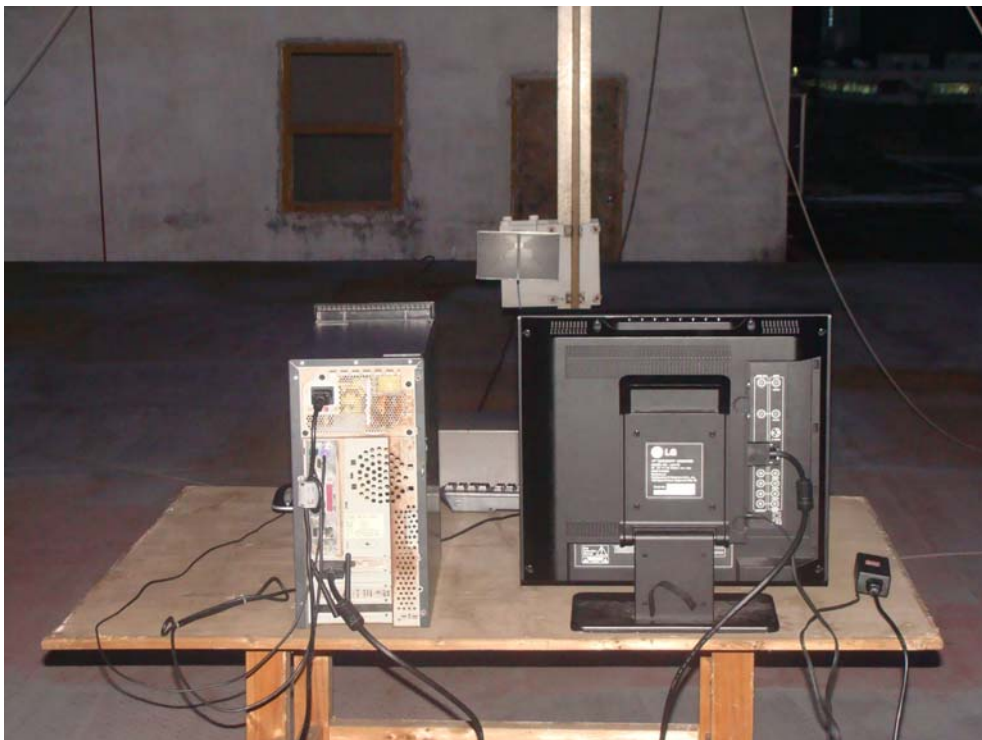
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14.2 Emission Radiated test View--

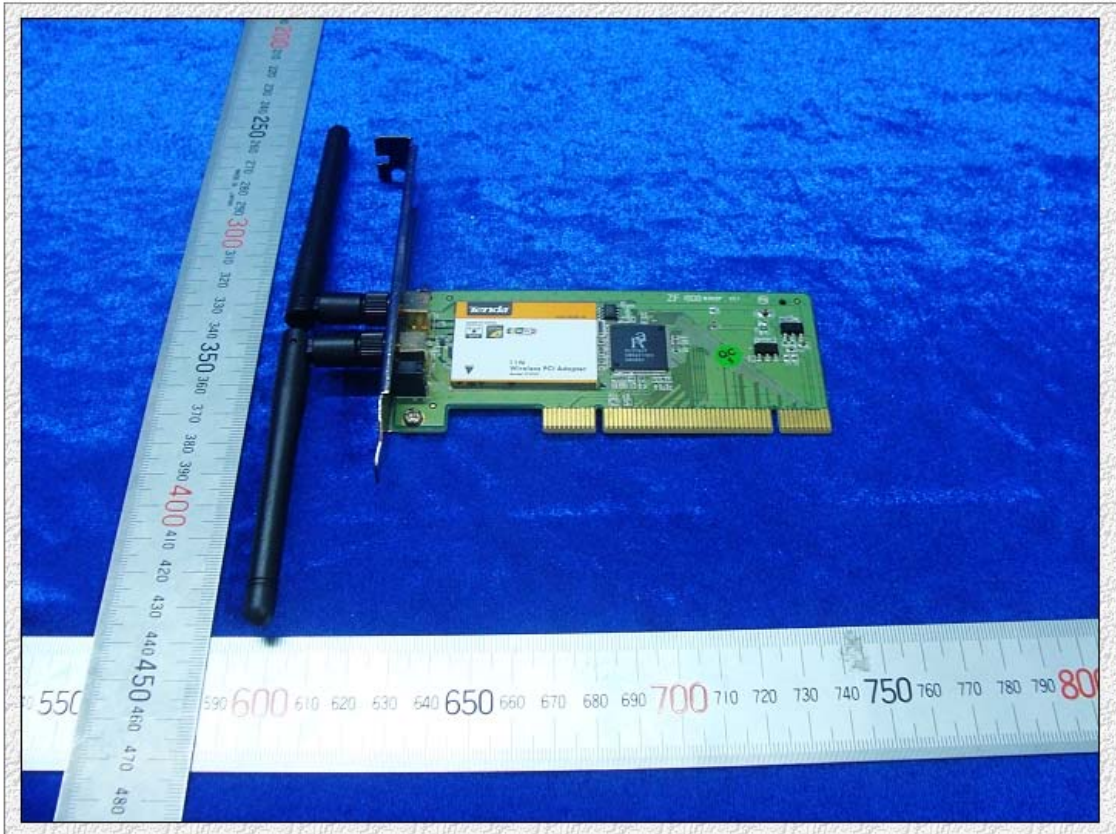


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14.3 Photo for the EUT

Outside View



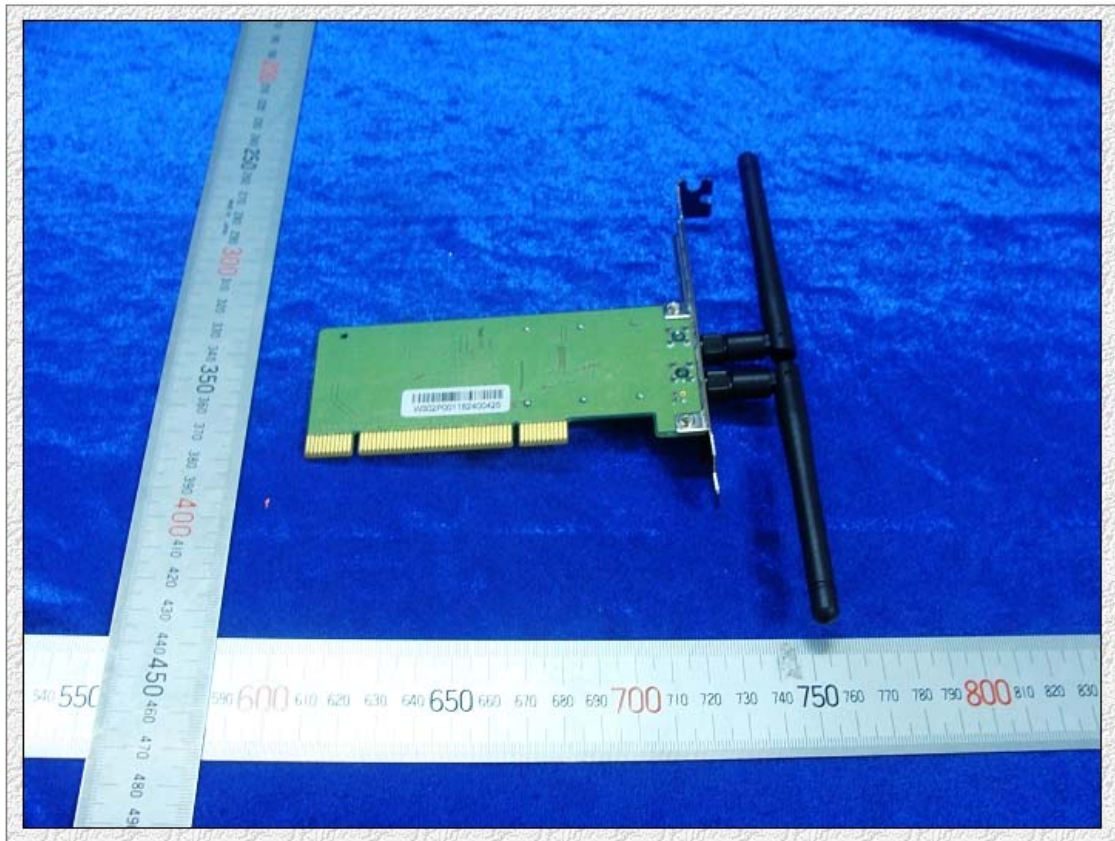
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14.4 Photo for the EUT

Outside View



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### Outside View

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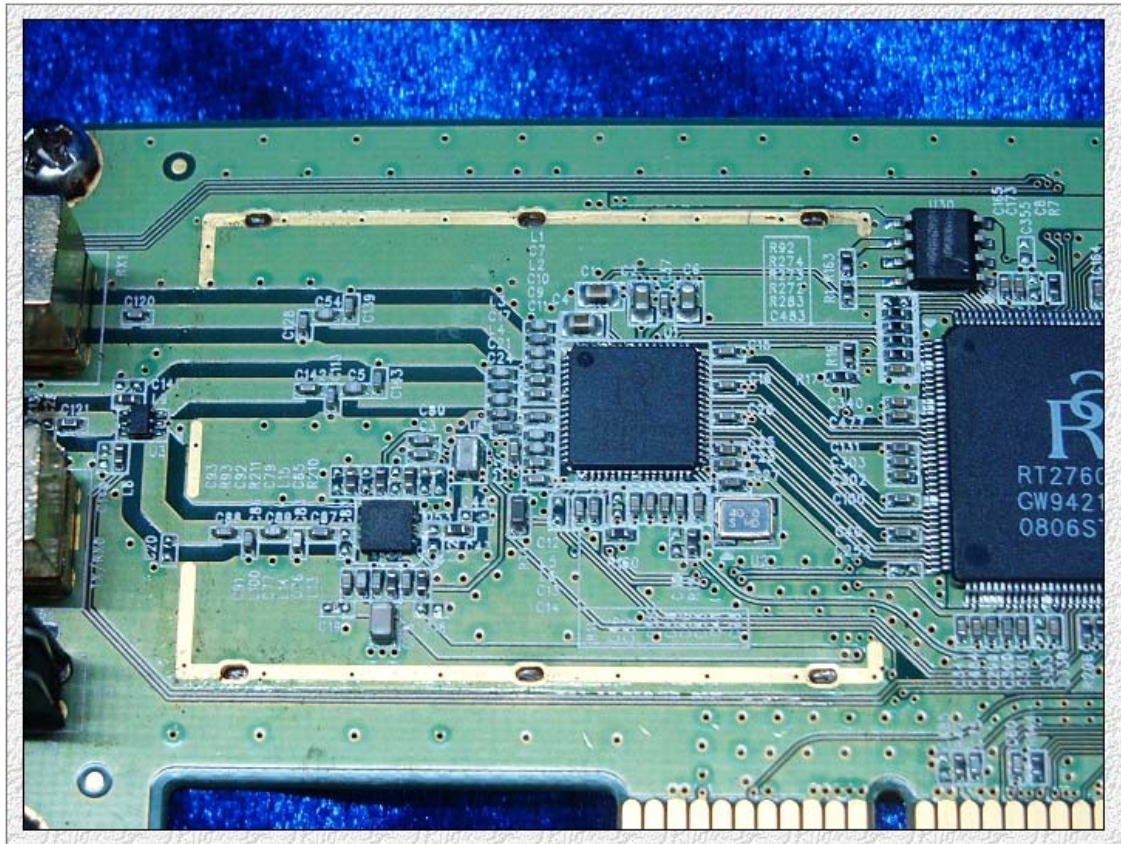
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