



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No:

FCC 0908205

File reference No:

2009-08-24

Applicant:

Coulomb Electronics Ltd

Product:

2.4GHz Wireless Adapter

Model No:

4704

Trademark:

Madcatz

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:

August 24, 2009

**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

Fax (755) 83442996



### **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: Coulomb Electronics Ltd  
Address: Rm 8-10, 2<sup>nd</sup> Floor, Hope Sea Ind. Centre, 26 Lam Hing Street, Kowloon Bay, Kowloon, Hong Kong  
Telephone: 852 2796 0682  
Fax: 852 2795 2626

### 1.3 Description of EUT

Product:	2.4GHz Wireless Adapter
Manufacturer:	HAOLIYUAN (SHENZHEN) ELECTRONIC CO., LTD
Brand Name:	Madcatz
Model Number:	4704
Power Source Adapter	Model: JT-H090100 Input: 100-240~50/60Hz 03.A Output: DC 9V-1.0A
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: : 135,121.5,108,81,40.5,27,13.5,65,58.5,52,39,26,19.5,13,6.5 Mbps IEEE 802.11n HT40: 135,121.5,108,81,40.5,27,13.5,65,58.5,52,39,26,19.5,13,6.5Mbps

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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

2009-08-24 to 2009-09-10

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	2008-12-05	2009-12-04
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2008-12-05	2009-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2008-12-05	2009-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2008-12-05	2009-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2008-12-05	2009-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2009-04-22	2010-04-21
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2009-02-18	2010-02-17
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2009-02-18	2010-02-17
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2009-02-18	2010-02-17
System Controller	CT	SC100	-	2009-02-18	2010-02-17

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Printer	EPSON	PHOTO EX3	CFNH234850	2009-02-18	2010-02-17
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2009-02-18	2010-02-17
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2009-02-18	2010-02-17
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2009-02-18	2010-02-17
Power meter	Anritsu	ML2487A	6K00003613	2009-02-18	2010-02-17
Power sensor	Anritsu	MA2491A	32263	2009-02-18	2010-02-17
Spectrum Analyzer	HAMEG	HM5012	-	2009-04-26	2010-04-25
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2009-02-18	2010-02-17
CDN	EM TEST	CDN M2/M3	-	2009-02-18	2010-02-17
Attenuation	EM TEST	ATT6/75	-	2009-02-18	2010-02-17
Resistance	EM TEST	R100	-	2009-02-18	2010-02-17
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2009-02-18	2010-02-17
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2009-02-18	2010-02-17
Power Amplifier	AR	150W1000	300999	2009-02-18	2010-02-17
Field probe	Holaday	HI-6005	105152	2009-02-18	2010-02-17
Bilog Antenna	Chase	CBL6111C	2576	2009-02-18	2010-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2009-02-18	2010-02-17
3m OATS	--	--	N/A	2009-02-18	2009-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2009-08-16	2010-08-15
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2009-04-26	2010-04-25

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#### 4. DESCRIPTION OF TEST MODES

##### 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 : 1Mbps 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: 135Mbps 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: 135Mbps 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.



#### 4.0 Technical Details

##### 4.1 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

##### 4.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

##### 5.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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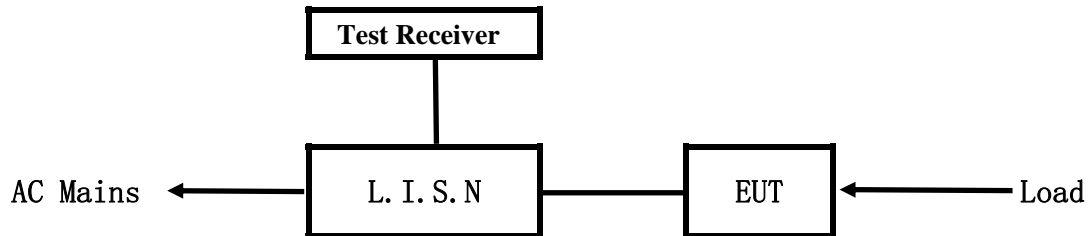
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## 6. Power Line Conducted Emission Test

### 6.1 Schematics of the test

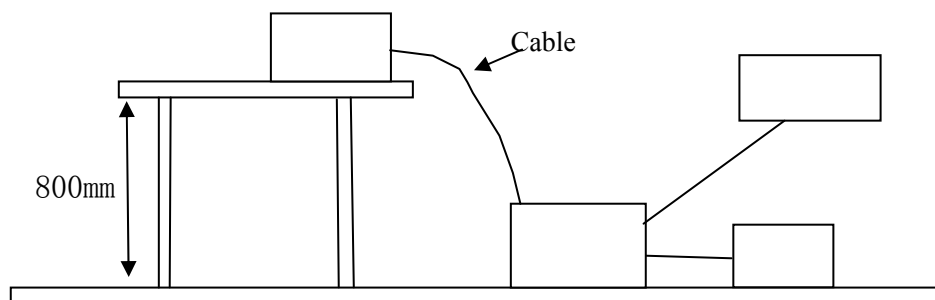


EUT: Equipment Under Test

### 6.2 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



### 6.3 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
2.4G Wireless Adapter	HAOLIYUAN (SHENZHEN) ELECTRONIC CO., LTD	4704	TGQC2CE4704A3709

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

6.4 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

6.5 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

6.6 Test Results

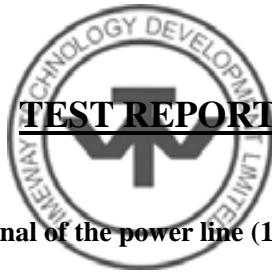
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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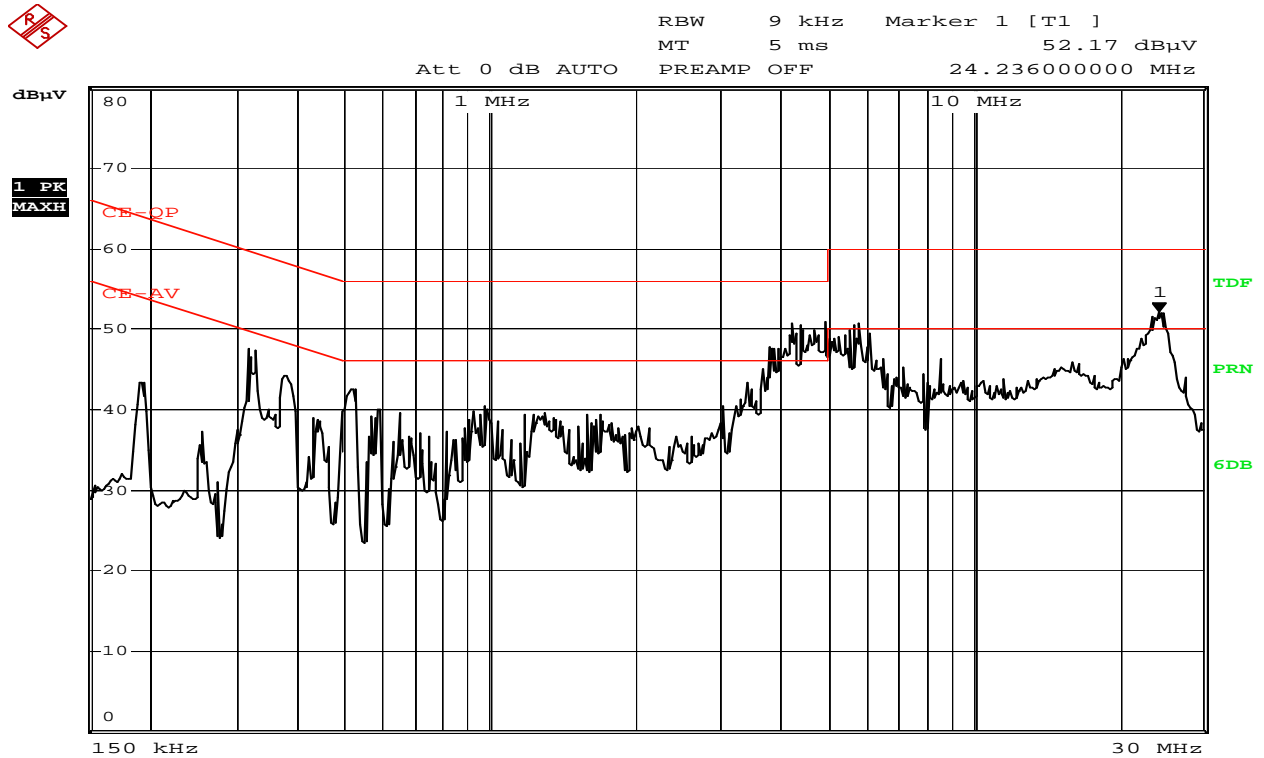


**A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Normal

**Results: Pass**

Please refer to following diagram for individual



Date: 9.SEP.2009 19:29:32

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.318	43.6	35.3	--	--	59.8	49.8
4.260	42.2	26.4	--	--	56.0	46.0
24.236	45.2	28.2	--	--	60.0	50.0

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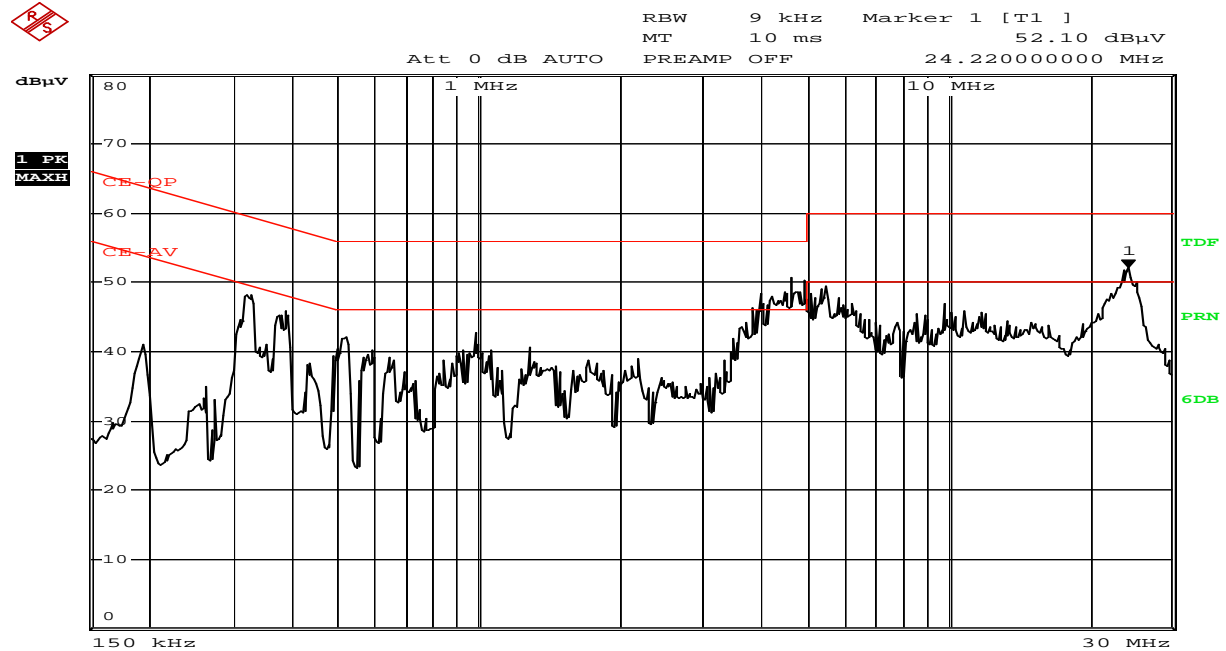


## B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Normal

**Results: Pass**

Please refer to following diagram for individual



Date: 9.SEP.2009 19:32:18

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.322	--	--	44.3	37.6	59.7	49.7
0.382	--	--	42.1	34.1	58.2	48.2
4.632	--	--	44.1	28.6	56.0	46.0
24.220	--	--	44.8	27.8	60.0	50.0

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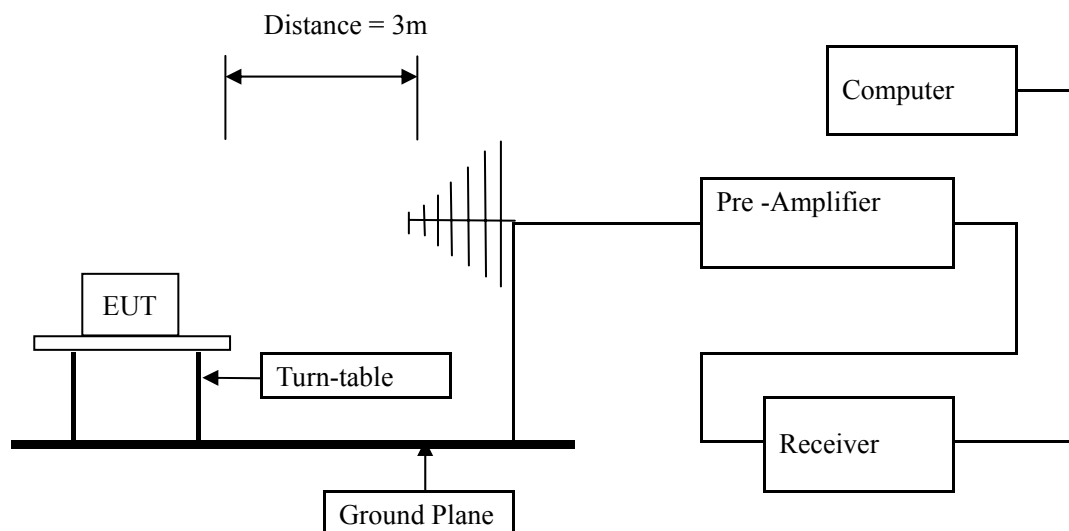


## 6 Radiated Emission Test

### 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

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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)
119.32	38.94	H	43.50
426.68	41.18	H	46.00
640.00	42.16	H	46.00
121.28	34.20	V	43.50
171.44	34.54	V	43.50
426.68	33.70	V	46.00

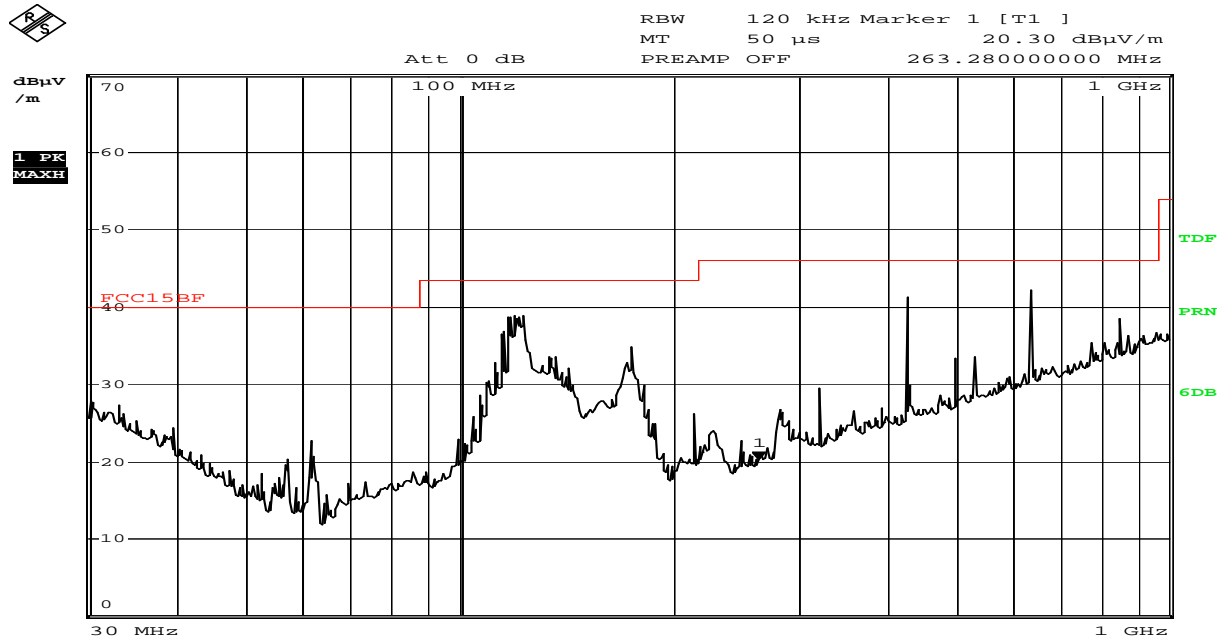
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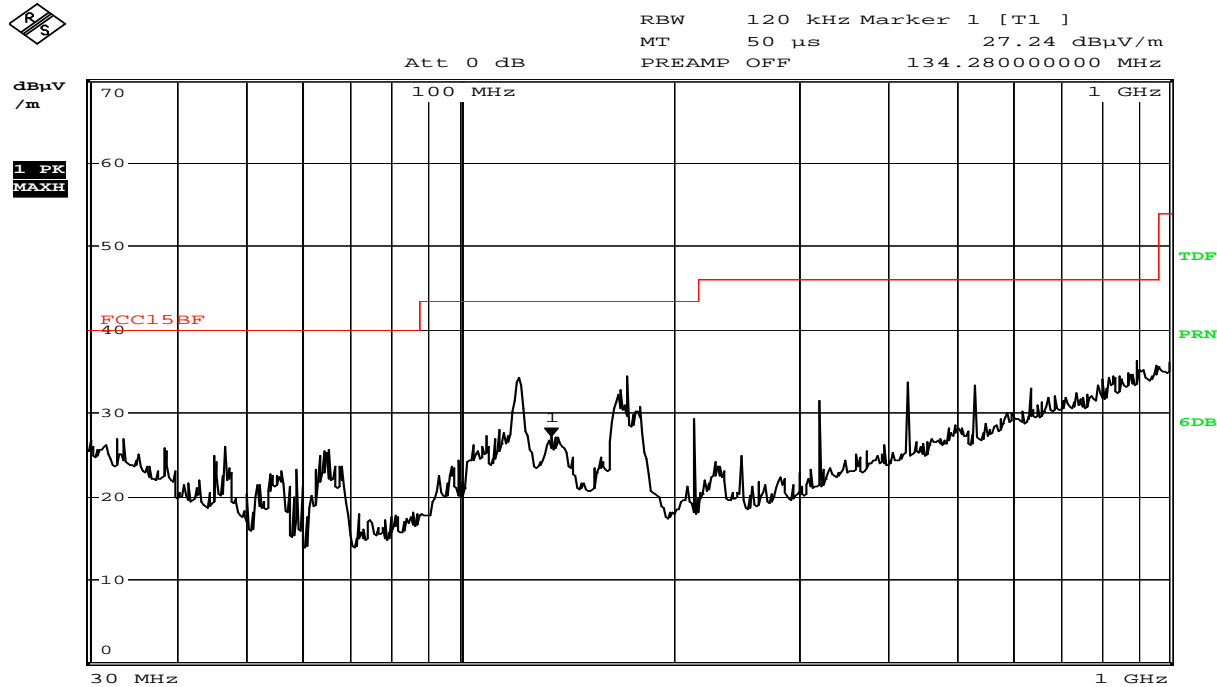


Test Figure:



Date: 16.SEP.2009 21:28:00

V



Date: 16.SEP.2009 21:26:13

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**TEST REPORT****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	99.0(PK) /82.8 (AV)	H	Fundamental Frequency
2412.00	105.3(PK) /87.4 (AV)	V	
4824.00	57.2(PK)/43.7(AV)	H	74(Peak)/ 54(AV)
4824.00	62.3(PK)/47.2(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)

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	107.3 (PK) /99.4 (AV)	V	Fundamental Frequency
2437.00	100.5 (PK) /92.6 (AV)	H	
4874.00	60.6(PK)/45.0(AV)	H	74(Peak)/ 54(AV)
4874.00	55.3(PK)/41.5(AV)	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	101.2 (PK) /90.3 (AV)	H	Fundamental Frequency
2462.00	107.4 (PK) /96.8 (AV)	V	
4824	61.0(PK)/46.8(AV)	V	74(Peak)/ 54(AV)
4824	53.9(PK)/39.9(AV)	H	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

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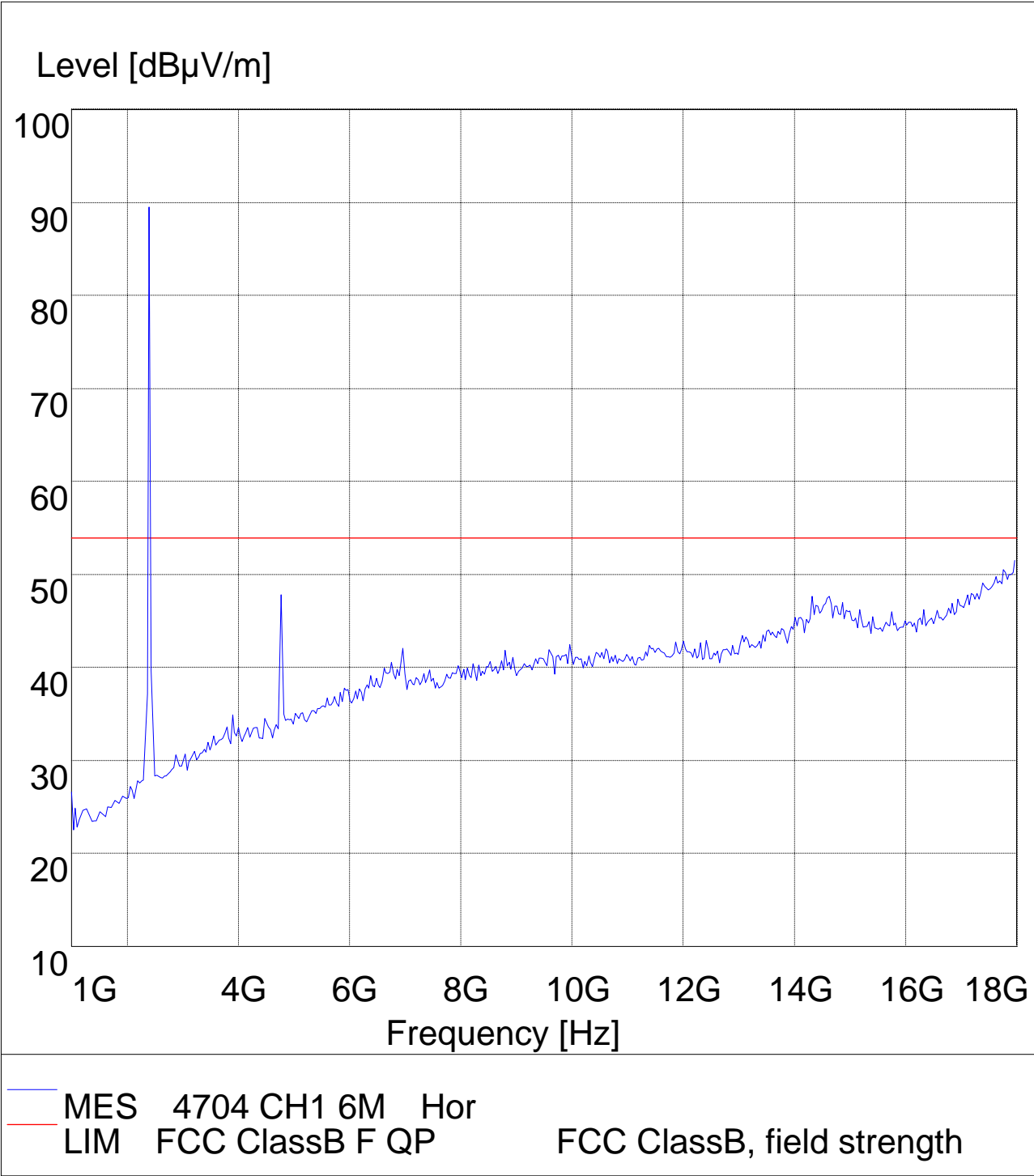
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**TEST REPORT**

Please refer to the following test plots for details:

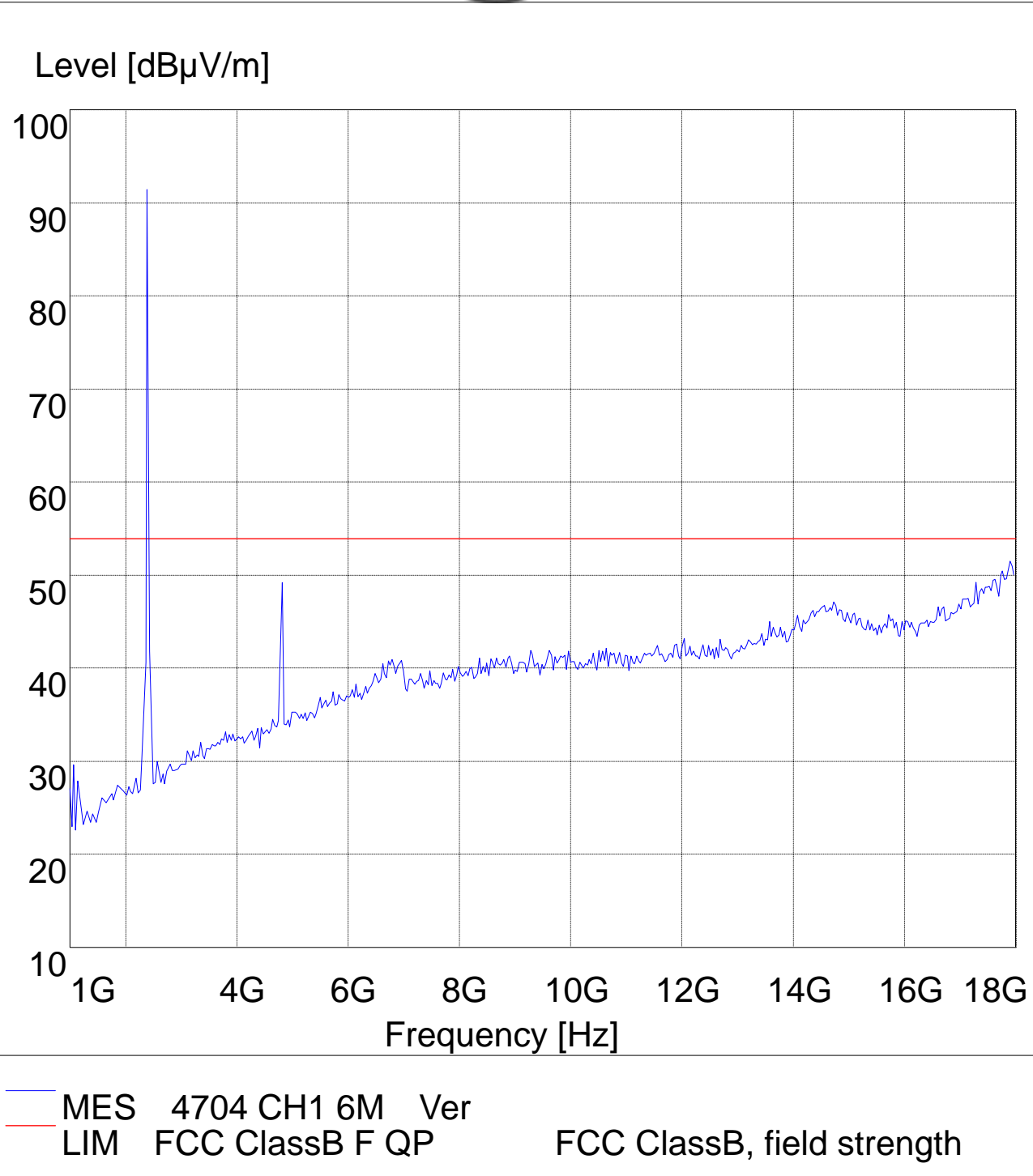
**CH01 at 6Mbps: Horizontal**



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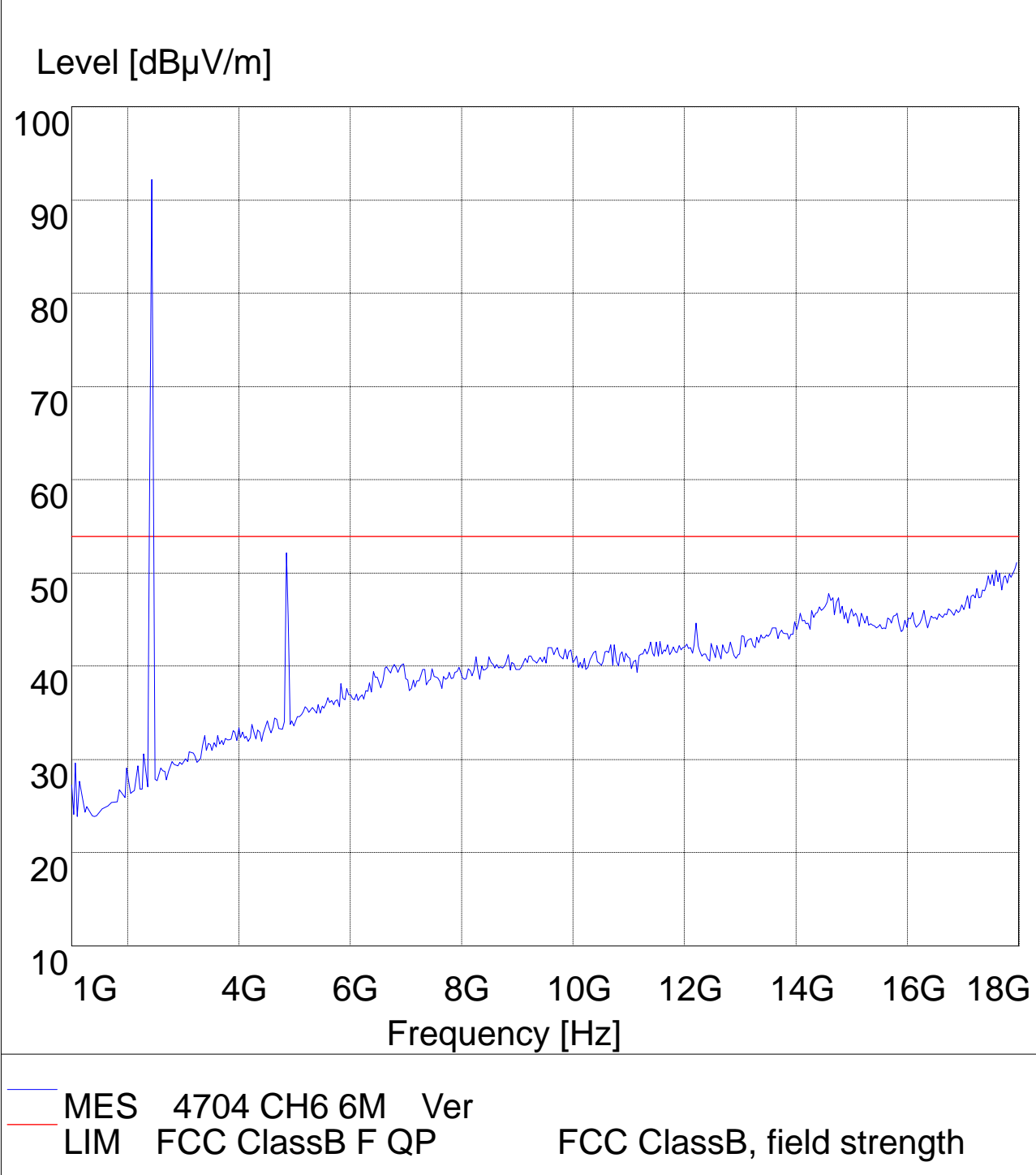
CH01 at 6Mbps: Vertical



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CH06 at 6Mbps: Vertical

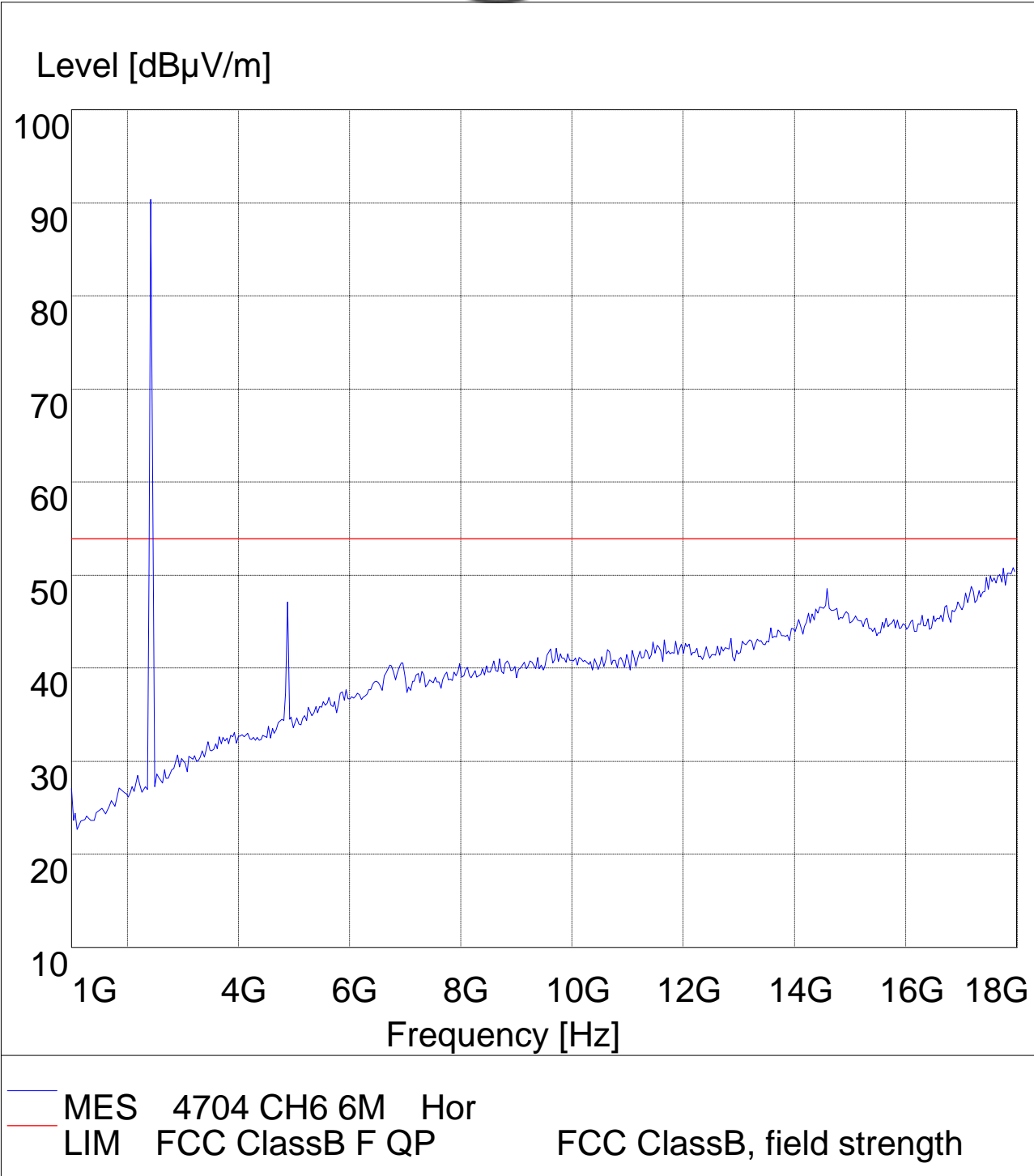


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TEST REPORT

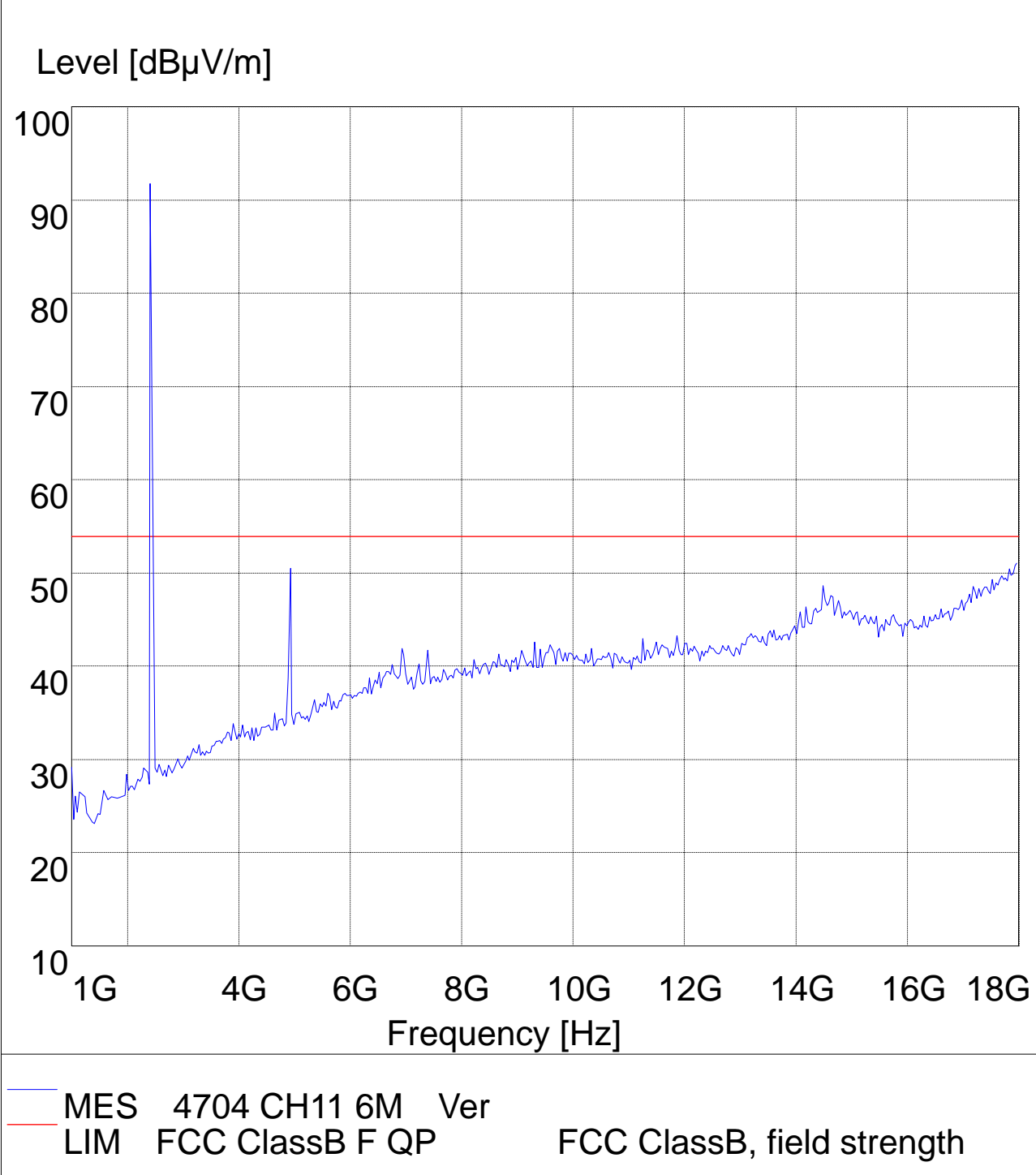
CH06 at 6Mbps: Horizontal



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CH11 at 6Mbps: Vertical

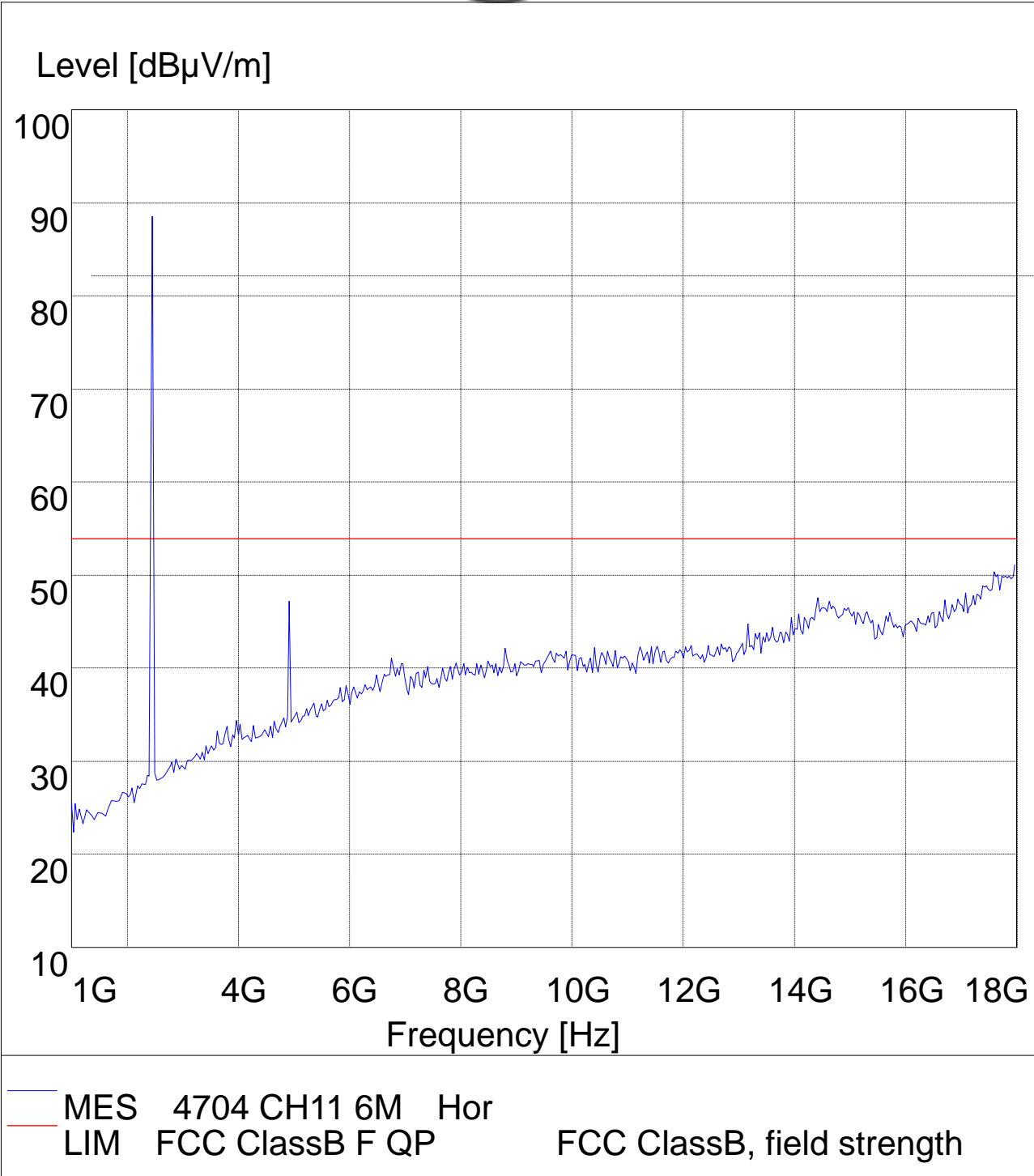


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TEST REPORT

CH11at 6Mbps: Horizontal



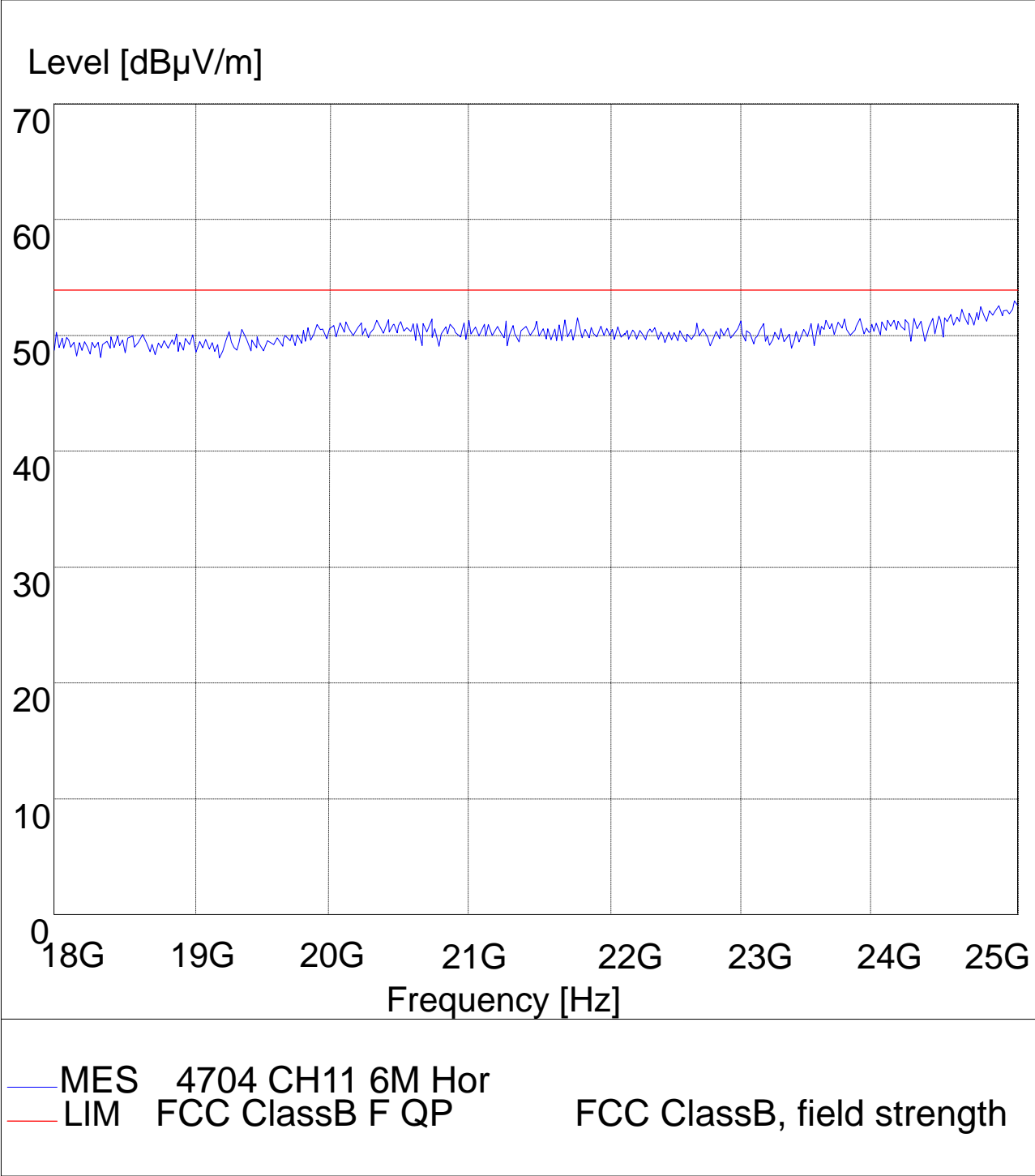
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TEST REPORT

18-25G  
CH11 6M Horizontal

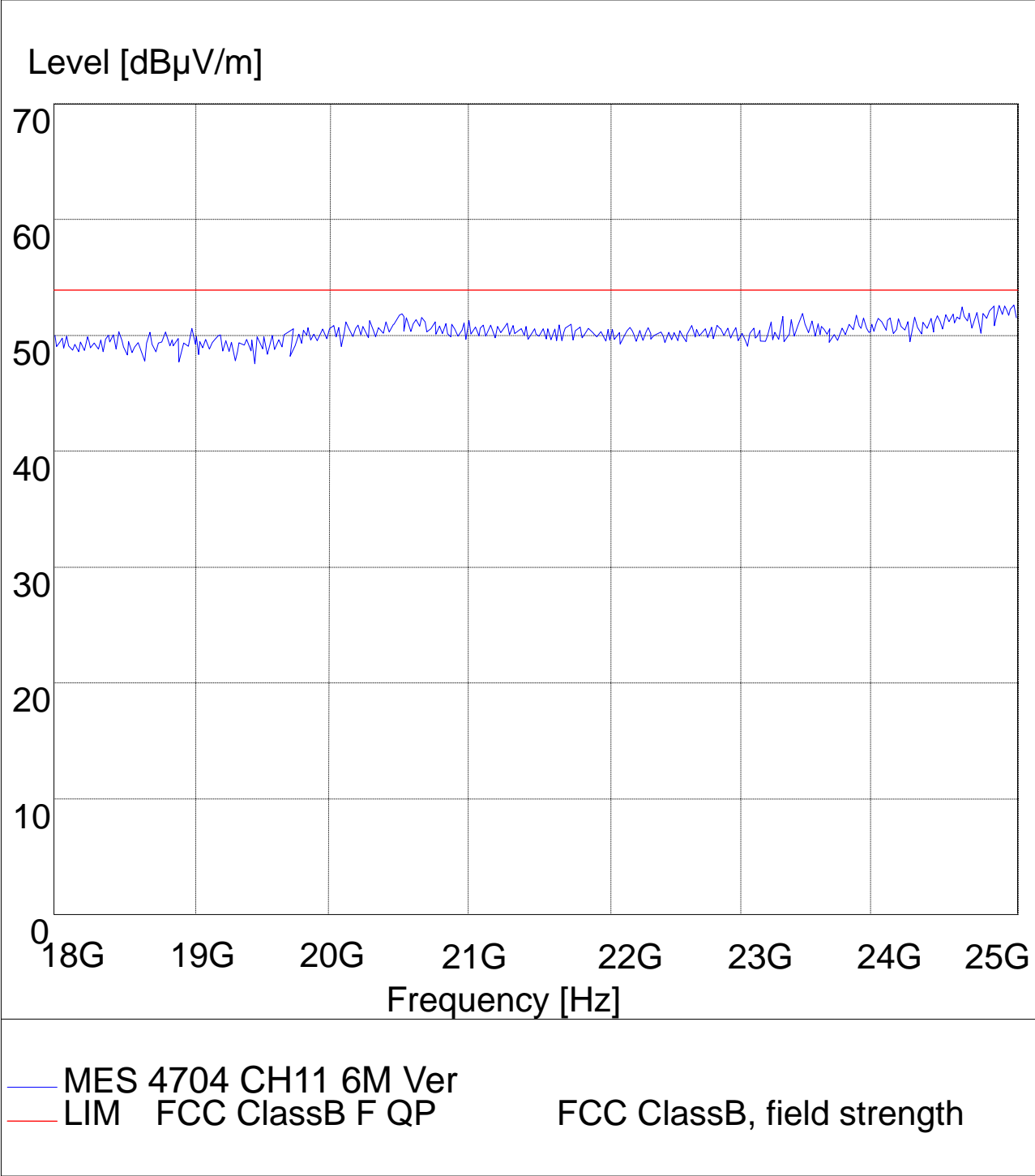


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TEST REPORT

18-25G  
CH11 54M Vertical



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**TEST REPORT****Operation Mode: Transmitting & Receiving under CH01 at 1Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	100.8 (PK)/ 90.6(AV)	H	Fundamental Frequency
2412.00	107.0 (PK)/96.2 (AV)	V	
4824.00	54.3 (PK)/ 42.2(AV)	H	74(Peak)/ 54(AV)
4824.00	58.1 (PK)/ 45.4(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)

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 1Mbps

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	99.3(PK)/ 90.5(AV)	H	Fundamental Frequency
2437.00	107.7(PK)/96.8 (AV)	V	
4874.00	60.8(PK)/49.3 (AV)	V	74(Peak)/ 54(AV)
4874.00	55.1(PK)/42.1 (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)

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 1Mbps

4. test results are for the worst case condition

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**Operation Mode: Transmitting & Receiving under CH11 at 1Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	98.6(PK)/90.1(AV)	H	Fundamental Frequency
2462.00	107.3(PK)/96.6(AV)	V	
4924	57.8(PK)/44.7(AV)	H	74(Peak)/ 54(AV)
4924	60.2(PK)/46.9(AV)	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 1Mbps  
4. Test results are for the worst case condition

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

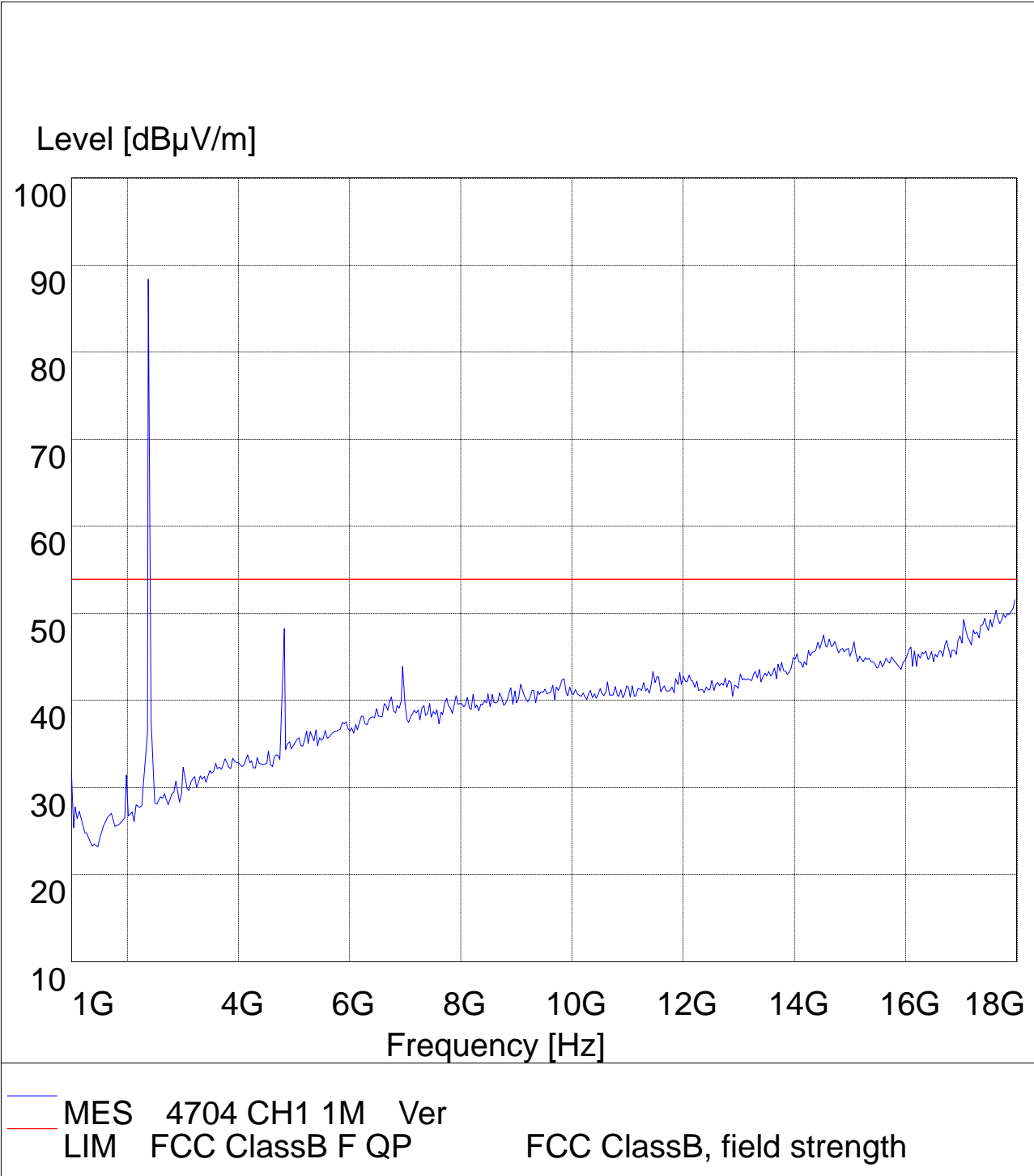
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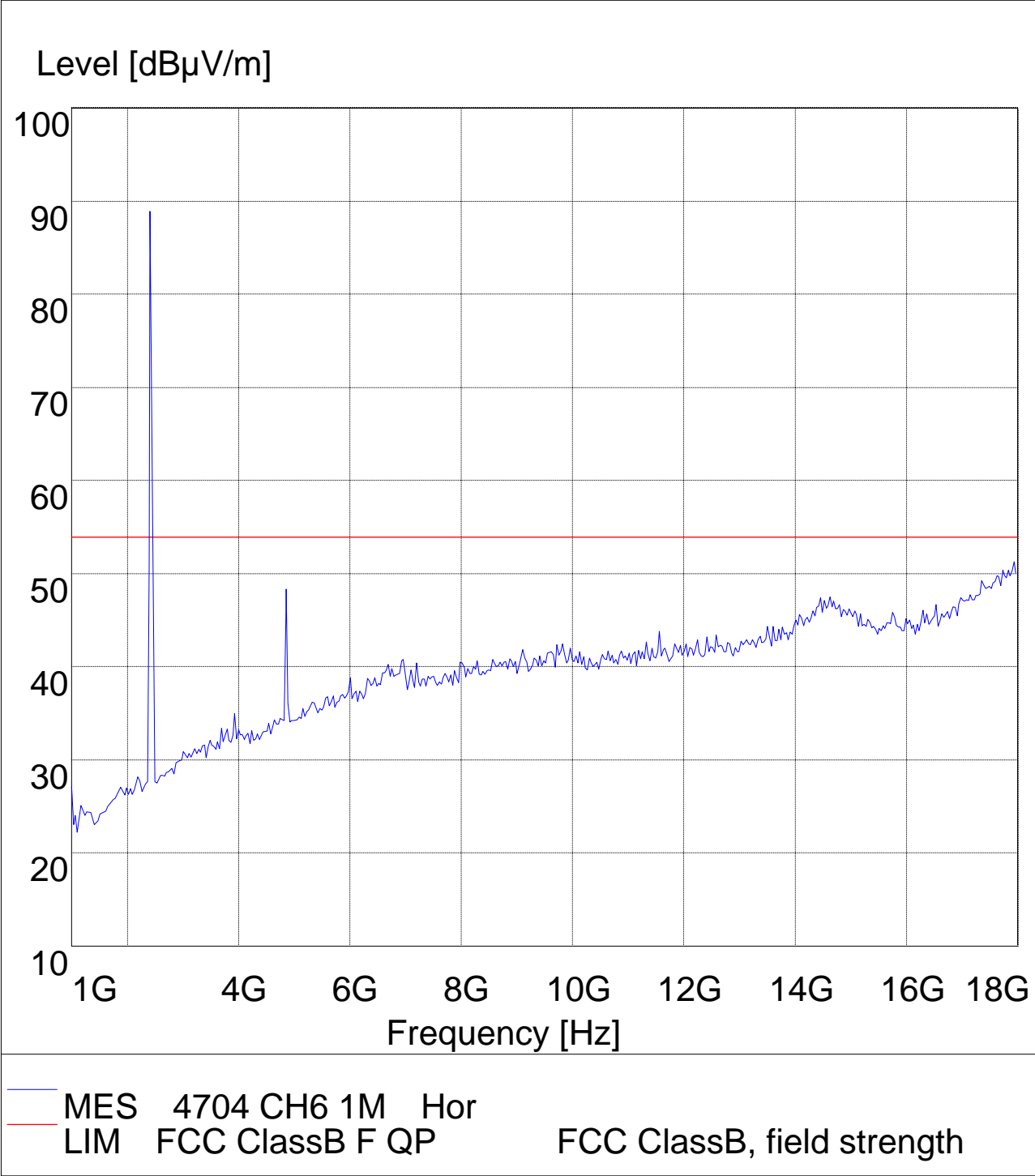
**CH01 at 1Mbps: Vertical**



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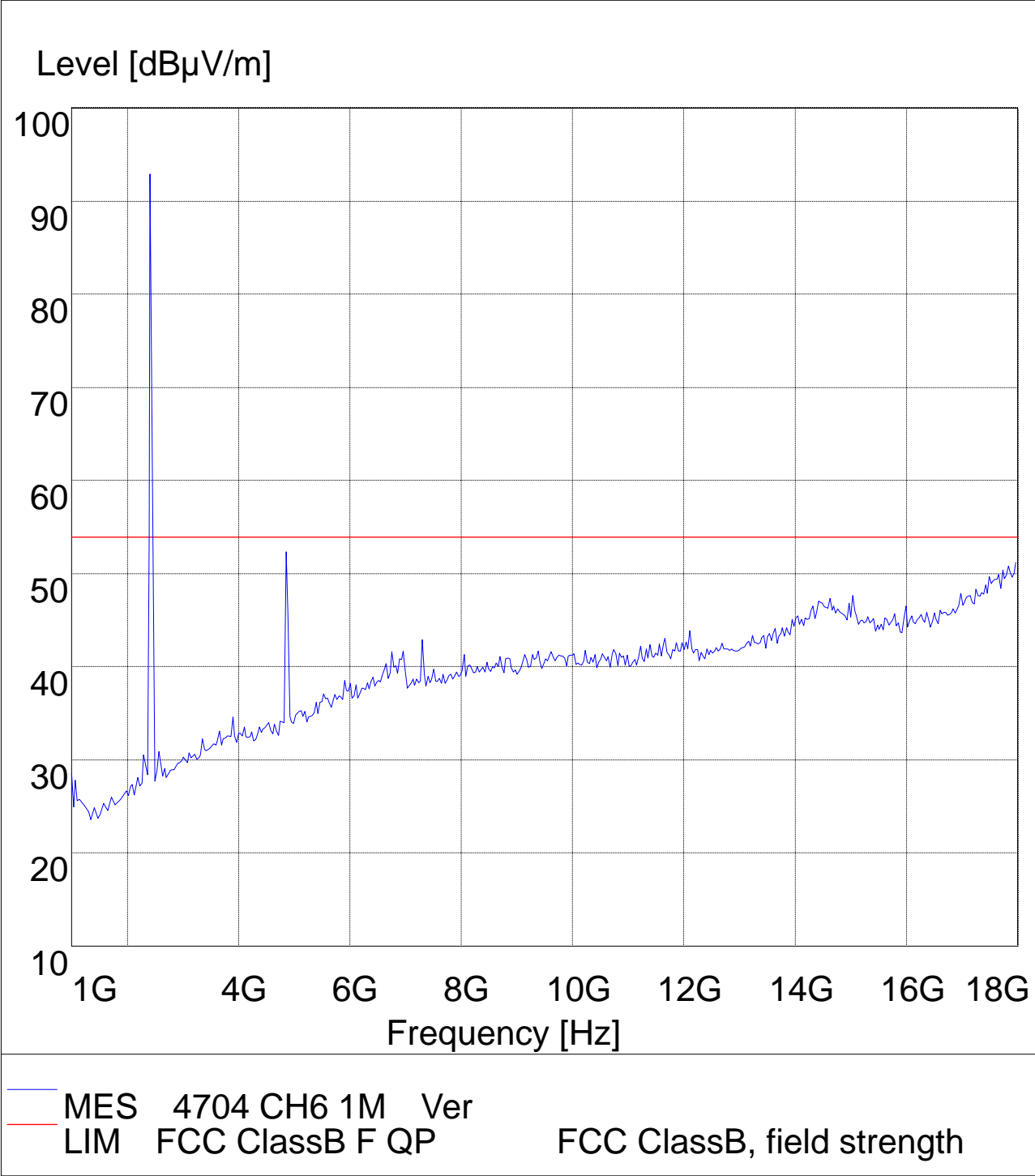
CH01 at 1Mbps: Horizontal



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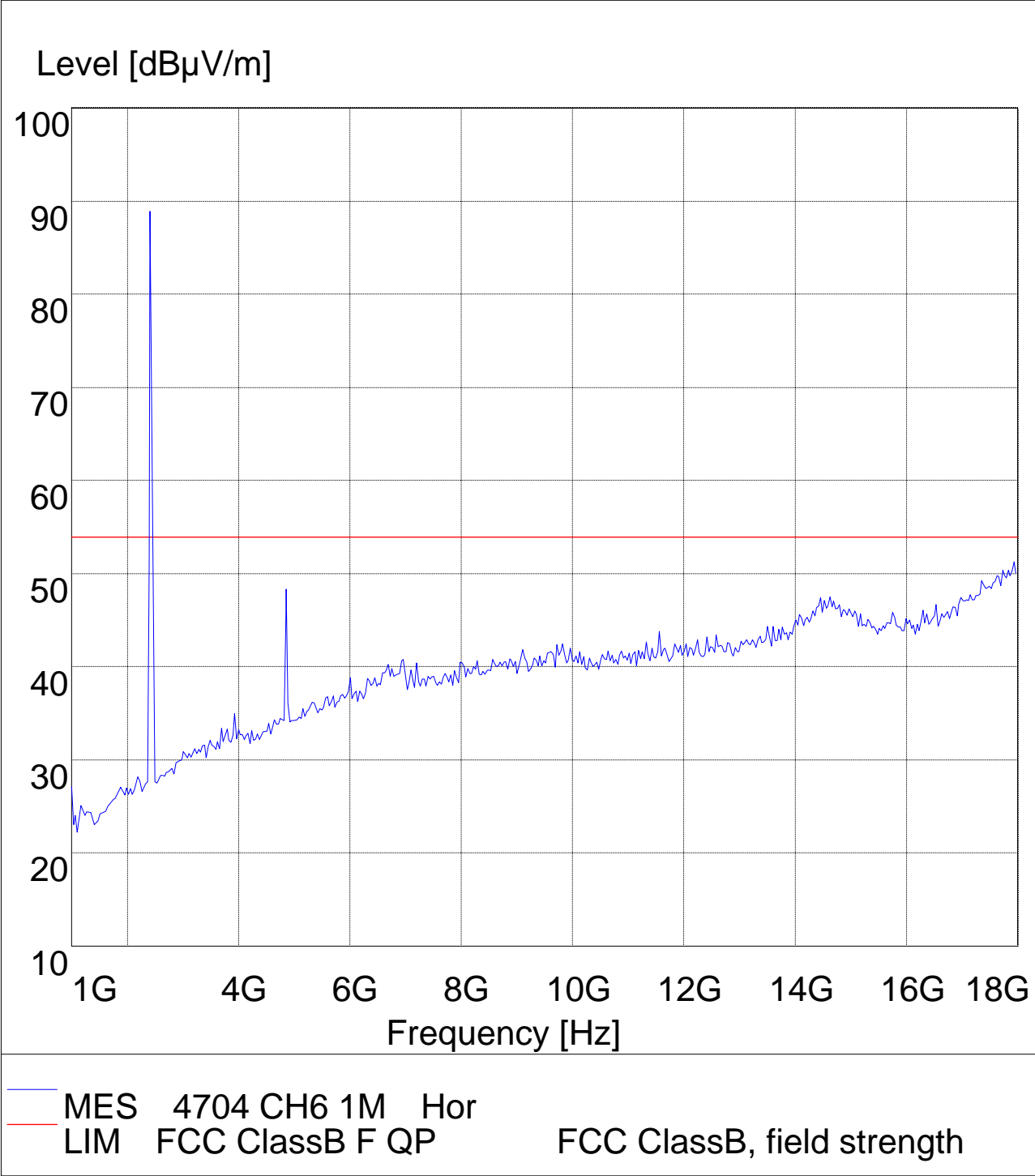
CH06 at 1Mbps: Vertical



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CH06 at 1Mbps: Horizontal



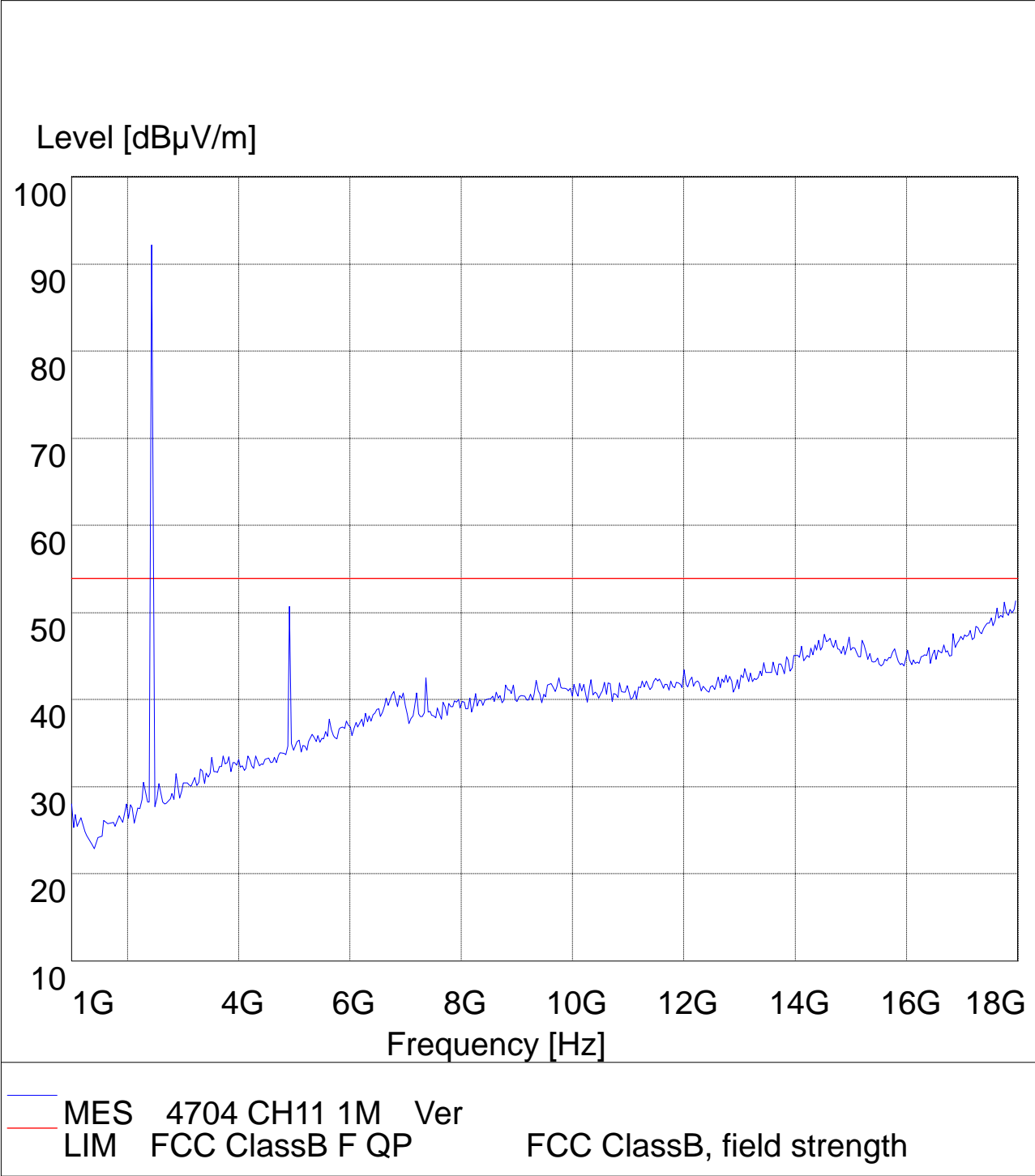
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**TEST REPORT**

**CH11 at 1Mbps: Vertical**

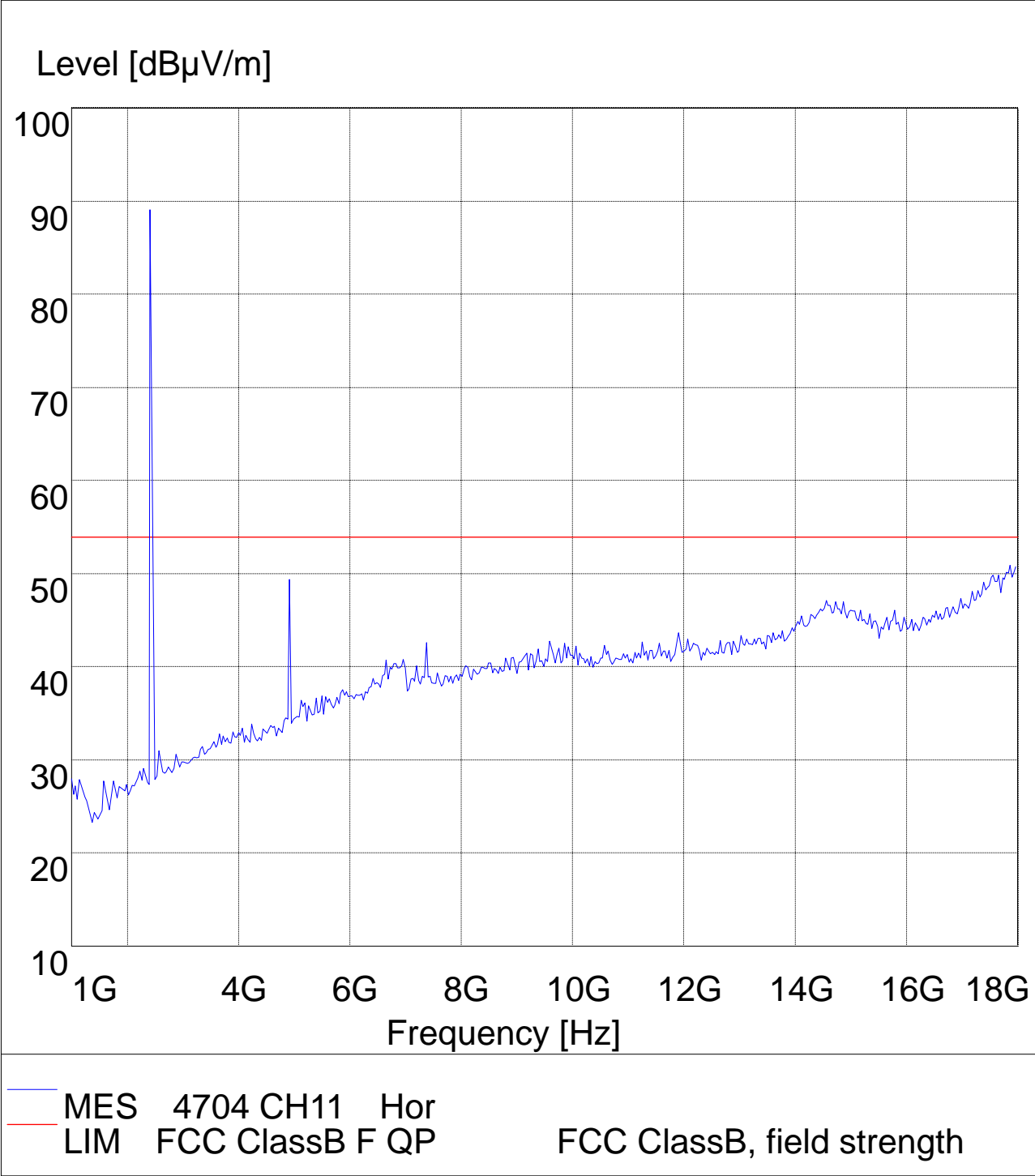


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TEST REPORT

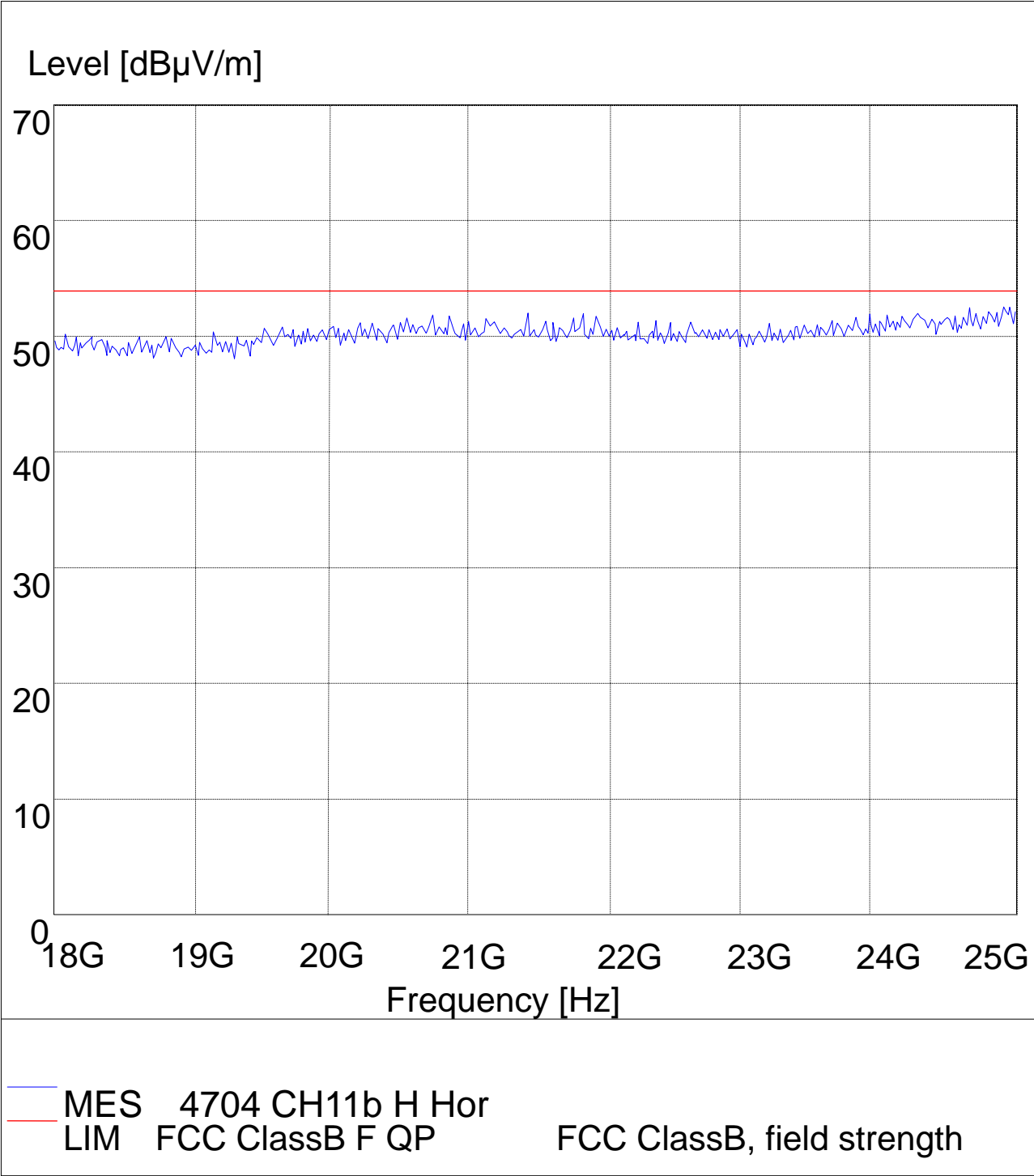
CH11 at 1Mbps: Horizontal



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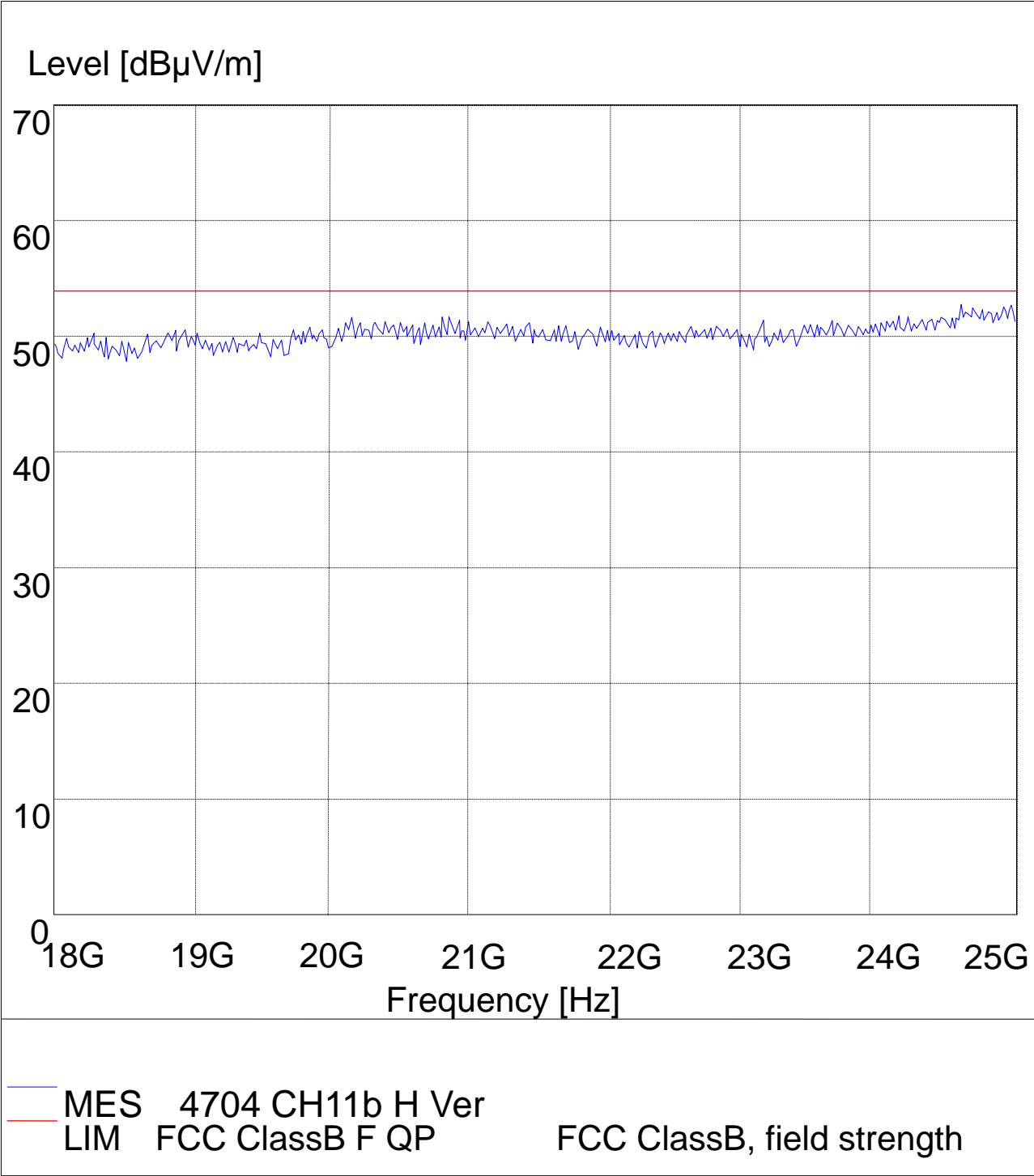
18-25G  
CH11 1M Horizontal



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18-25G  
CH11 11M Vertical



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## TEST REPORT

### Operation Mode: Transmitting & Receiving under CH01 at HT20 135Mbps

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	96.8 (PK)/ 84.7(AV)	H	Fundamental Frequency
2412.00	104.2(PK)/92.6 (AV)	V	
4824.00	54.2(PK)/ 39.6(AV)	H	74(Peak)/ 54(AV)
4824.00	60.6 (PK)/ 47.9(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)

- 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 135Mbps  
 4. Test results are for the worst case condition

### Operation Mode: Transmitting & Receiving under CH06 at HT20 6Mbps

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	96.8 (PK)/ 84.5(AV)	H	Fundamental Frequency
2437.00	105.1(PK)/93.1 (AV)	V	
4874.00	54.3(PK)/ 40.2(AV)	H	74(Peak)/ 54(AV)
4874.00	59.8 (PK)/ 47.2(AV)	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 802.11n HT20 mode 135Mbps  
 4. test results are for the worst case condition

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**TEST REPORT****Operation Mode: Transmitting & Receiving under CH11 at HT20 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	95.2(PK/84.7AV)	H	Fundamental Frequency
2462.00	103.6(PK)/92.9(AV)	V	
4924	53.2(PK)/ 38.7(AV)	H	74(Peak)/ 54(AV)
4924	57.3 (PK)/ 44.6(AV)	/V	
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)

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 135Mbps

4. Test results are for the worst case condition

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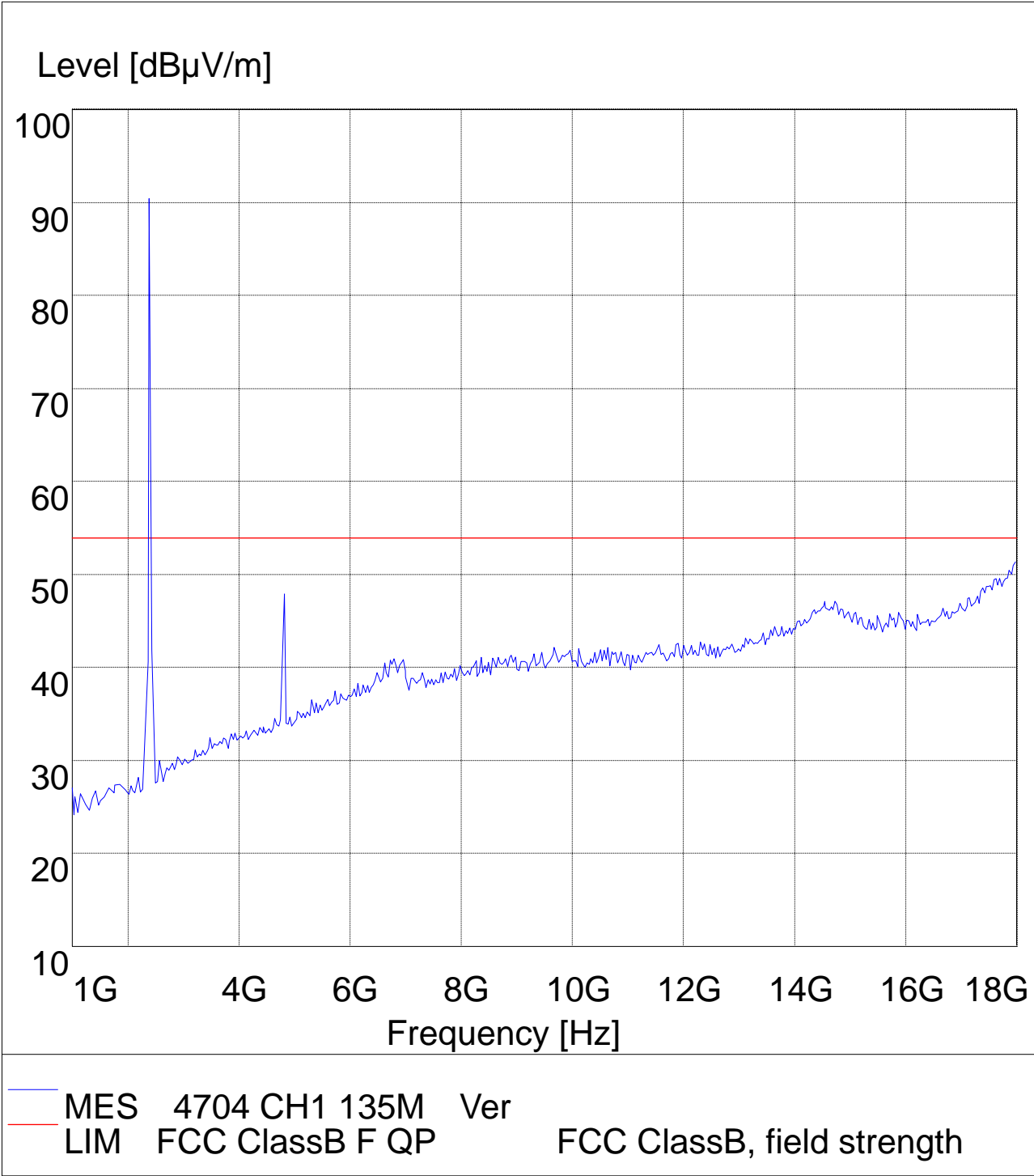
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**TEST REPORT**

Please refer to the following test plots for details:

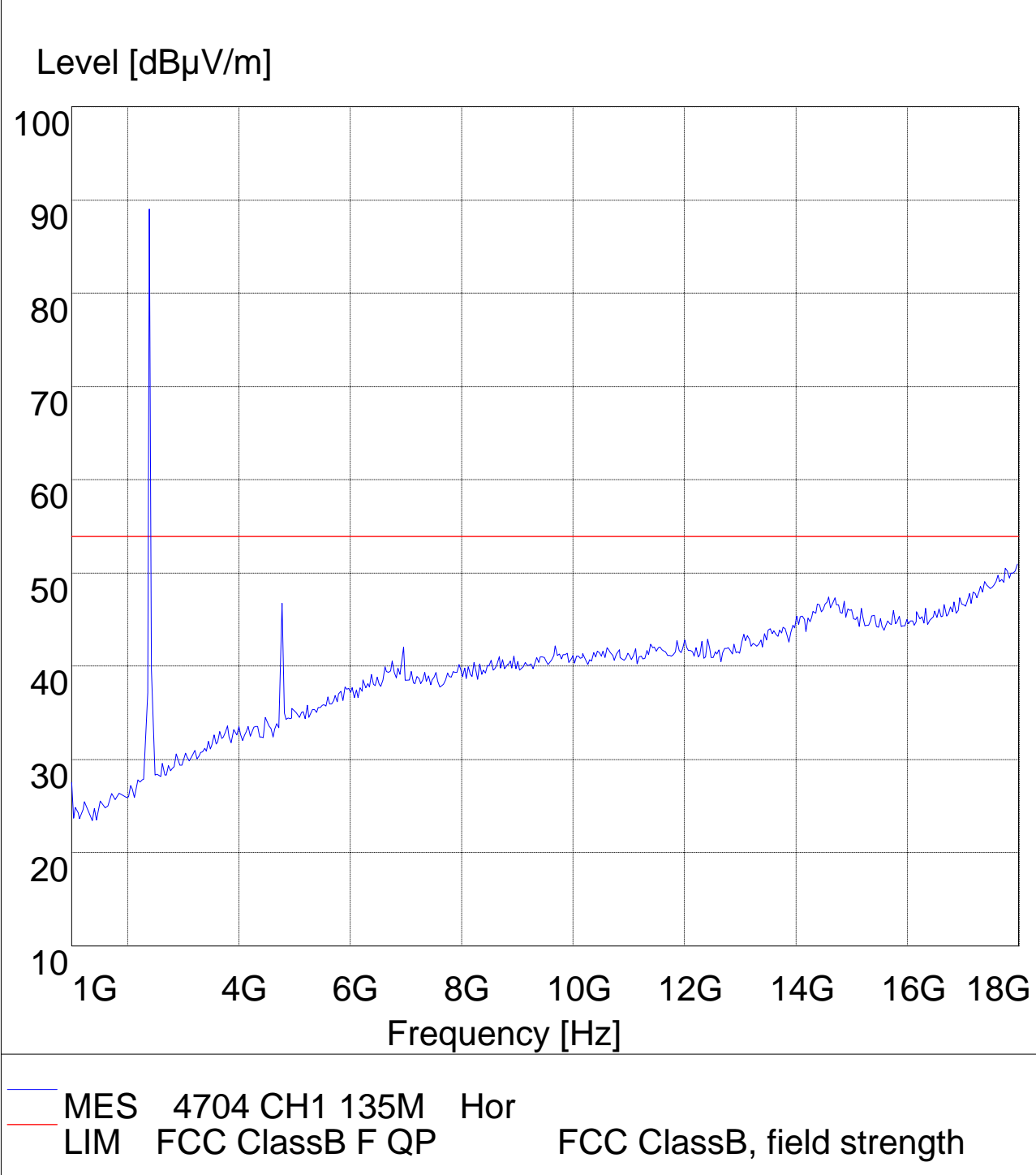
**CH01 at HT20 135Mbps: Vertical**



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CH01 at HT20 135Mbps: Horizontal



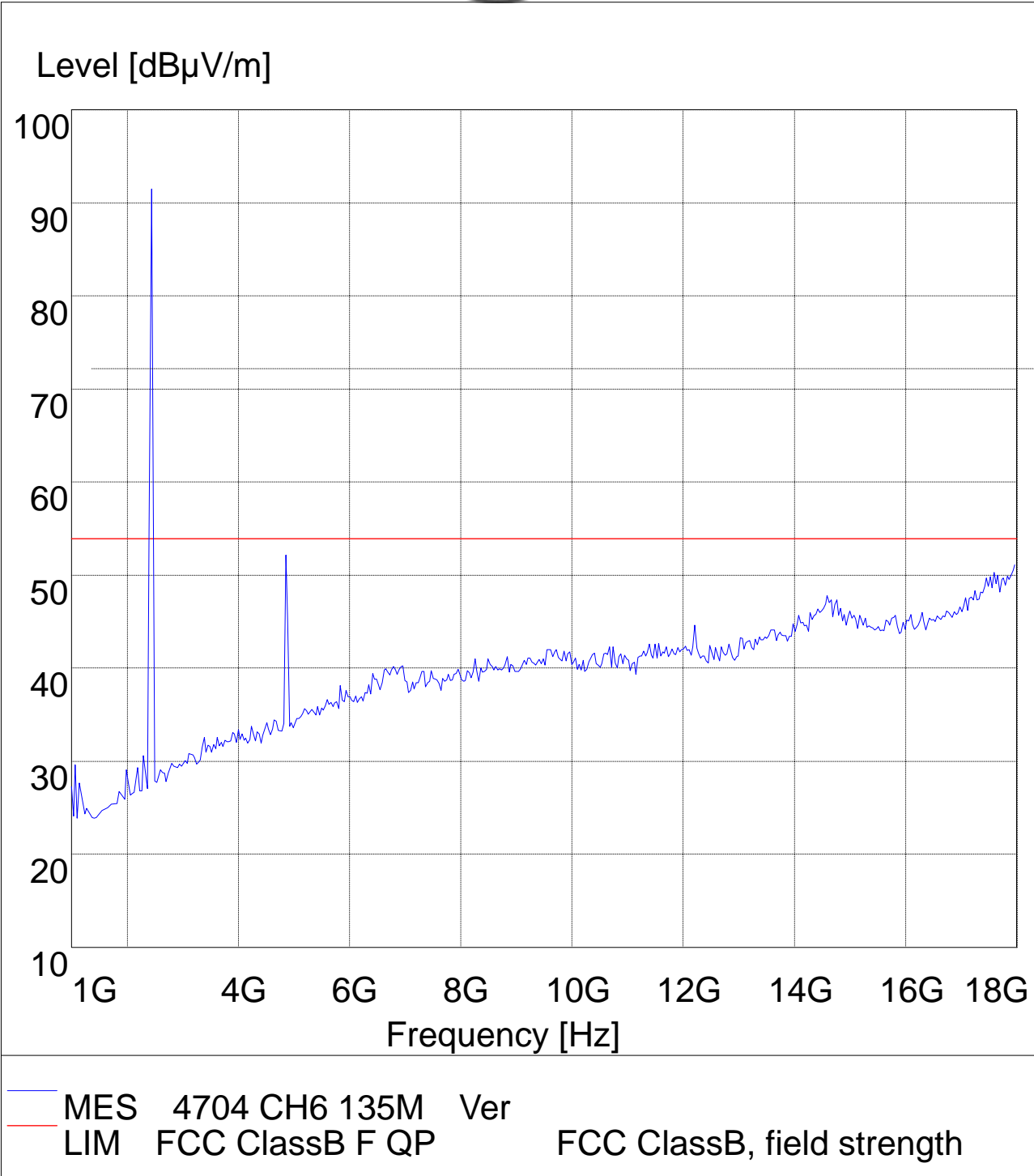
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TEST REPORT

CH06 at HT20 135Mbps: Vertical

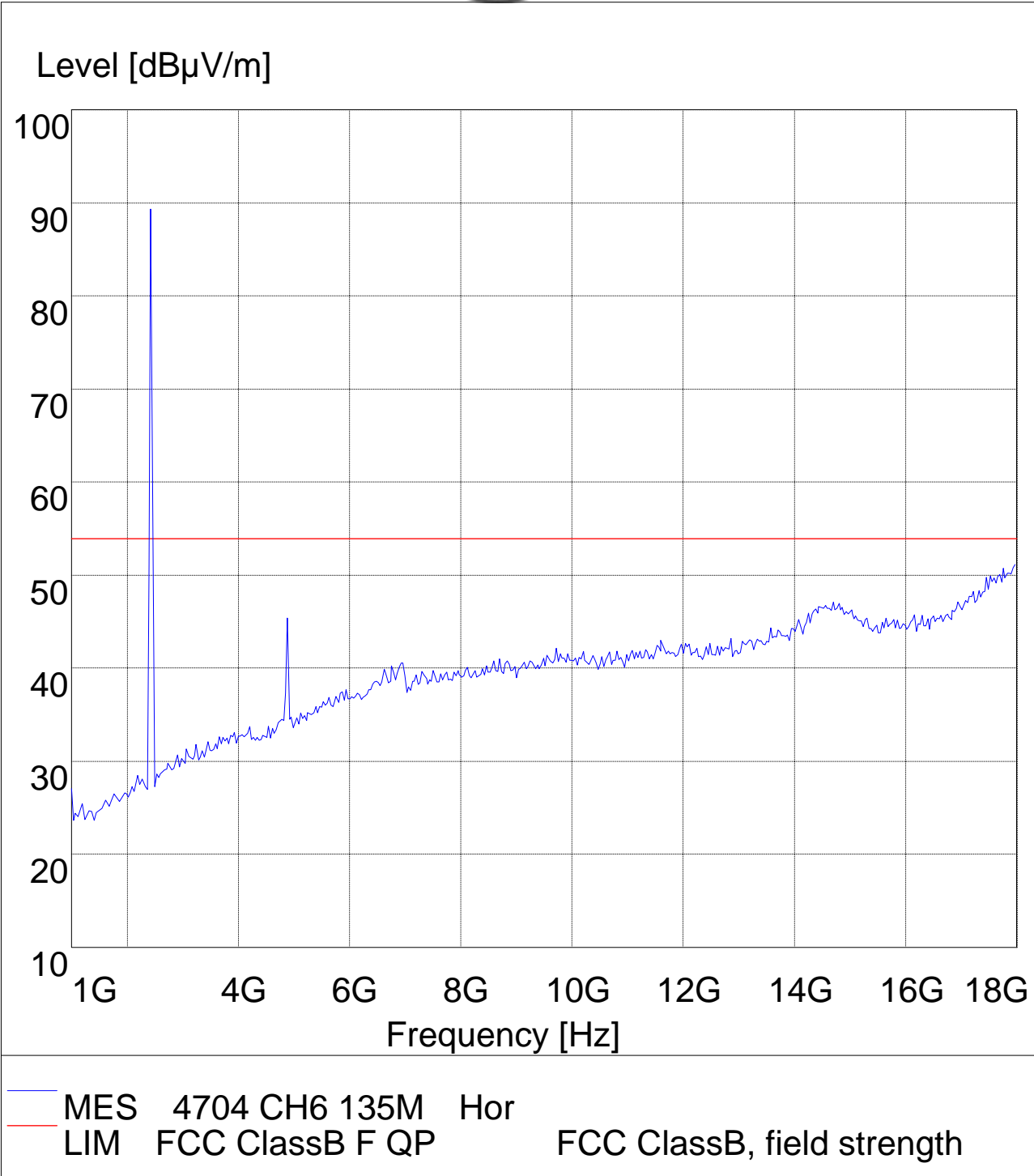


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TEST REPORT

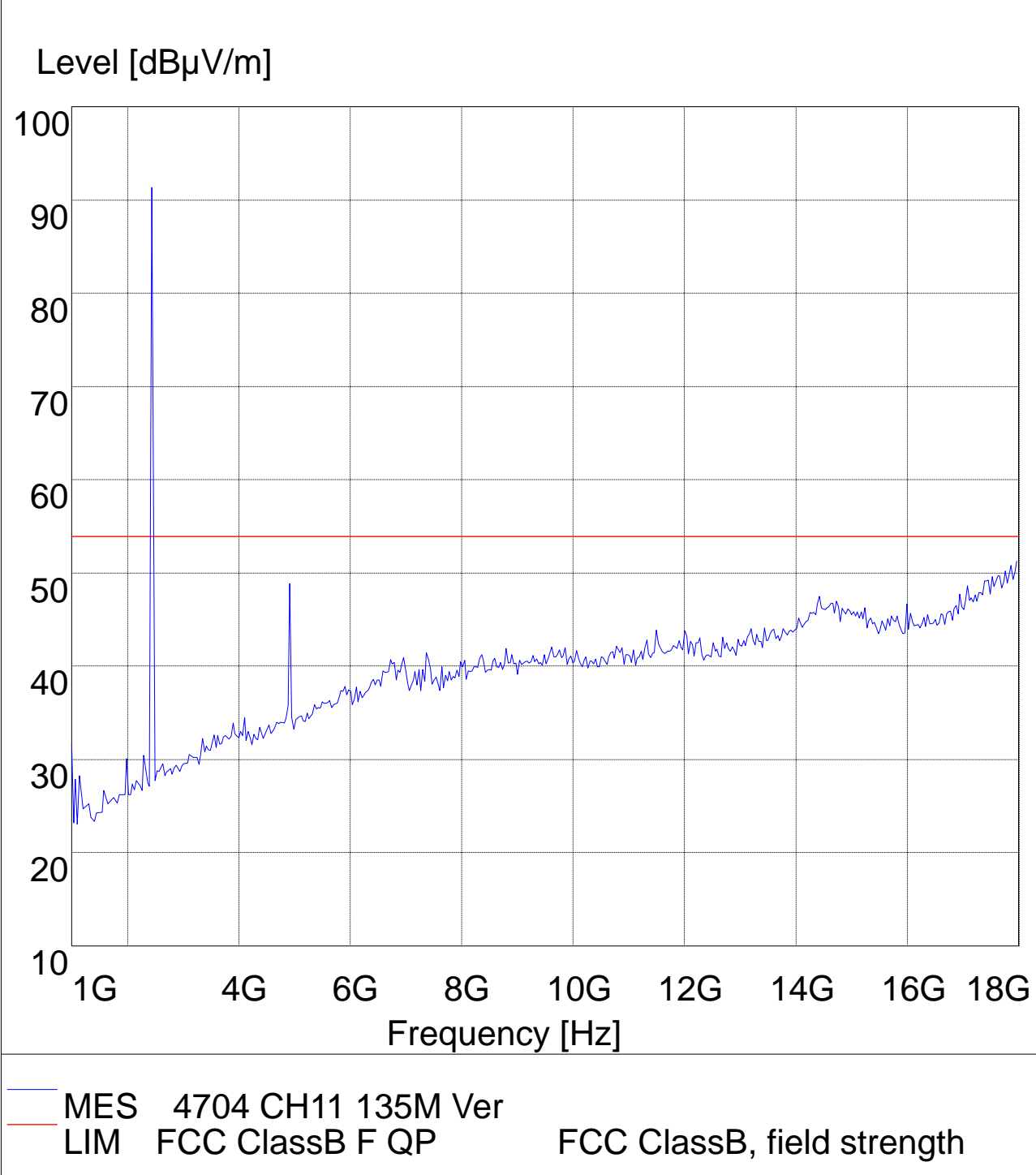
CH06 at HT20 135Mbps: Horizontal



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CH11 at HT20 135Mbps: Vertical

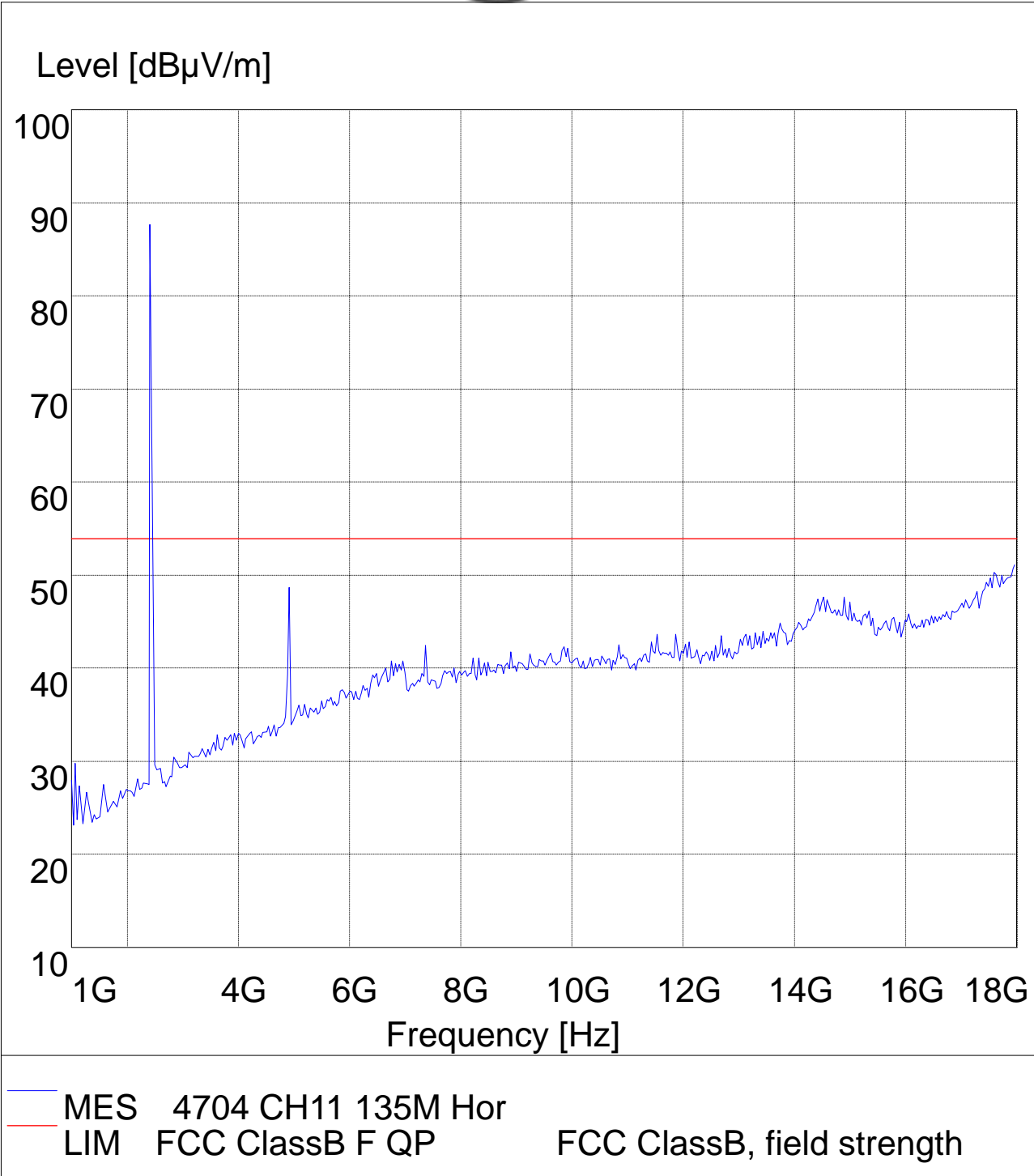


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TEST REPORT

CH11 at HT20 135Mbps: Horizontal

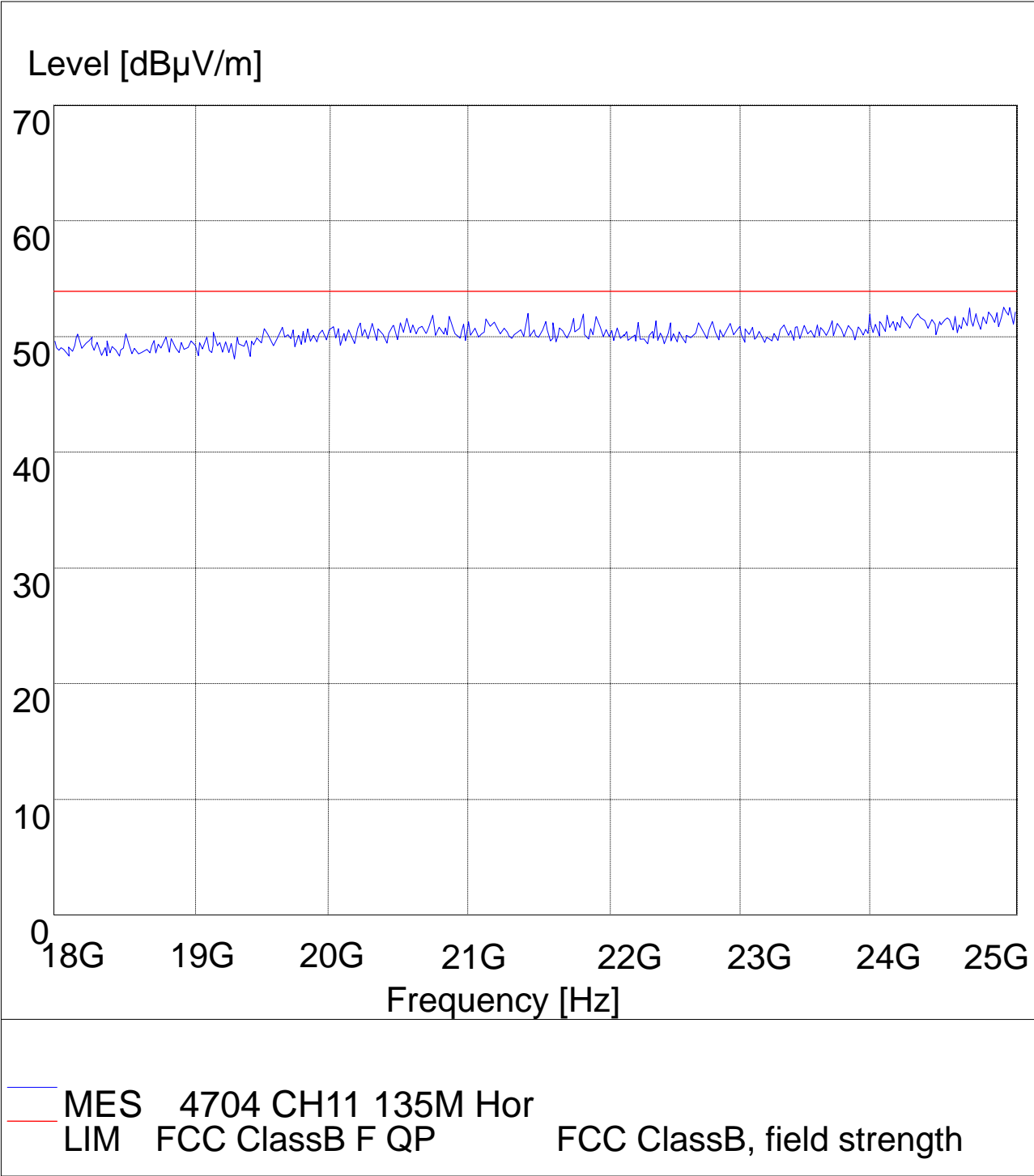


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TEST REPORT

18-25G  
CH11 at HT20 135M Horizontal

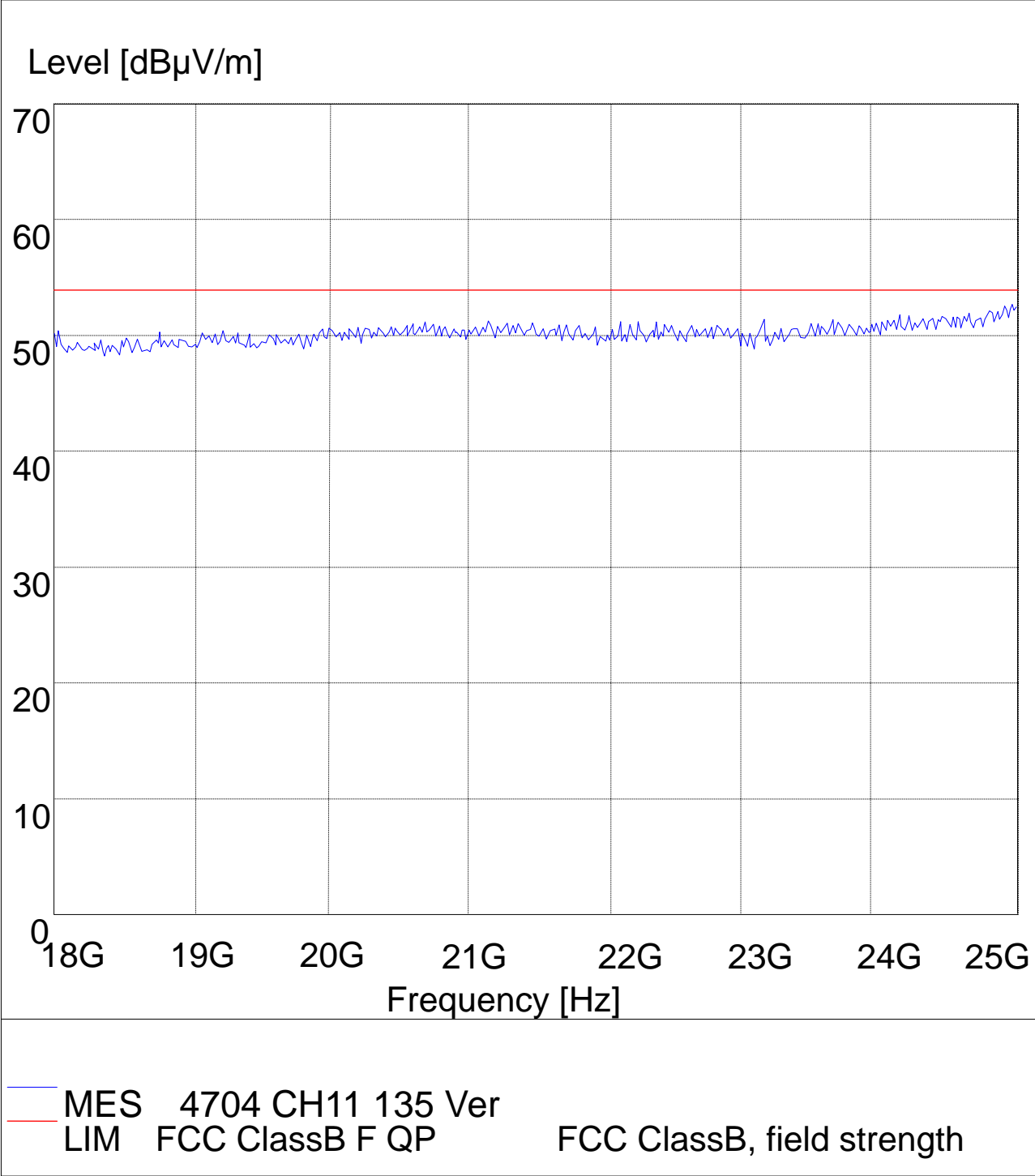


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**TEST REPORT**

18-25G  
CH11 at HT20 135M Vertical



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**Operation Mode: Transmitting & Receiving under CH01 at HT40 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2422.00	93.6(PK) /82.3 (AV)	H	Fundamental Frequency
2422.00	100.8(PK) /89.2 (AV)	V	
4844.00	54.2(PK) /41.3 (AV)	H	74(Peak)/ 54(AV)
4844.00	58.6(PK) /46.2 (AV)	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)

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 135Mbps

4. Test results are for the worst case condition

**Operation Mode: Transmitting & Receiving under CH04 at HT40 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	102.5 (PK) /90.2 (AV)	V	Fundamental Frequency
2437.00	95.3 (PK) /83.8 (AV)	H	
4874.00	62.2 (PK) /48.3 (AV)	V	74(Peak)/ 54(AV)
4874.00	56.5 (PK) /44.7 (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)

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 135Mbps

4. Test results are for the worst case condition

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## **TEST REPORT**

### **Operation Mode: Transmitting & Receiving under CH07 at HT40 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2452.00	94.6 (PK) /82.1 (AV)	H	Fundamental Frequency
2452.00	101.6 (PK) /89.8 (AV)	V	
4904	60.1 (PK) /47.0 (AV)	V	74(Peak)/ 54(AV)
4904	54.5 (PK) /42.6 (AV)	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)

- 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 135Mbps  
 4. Test results are for the worst case condition

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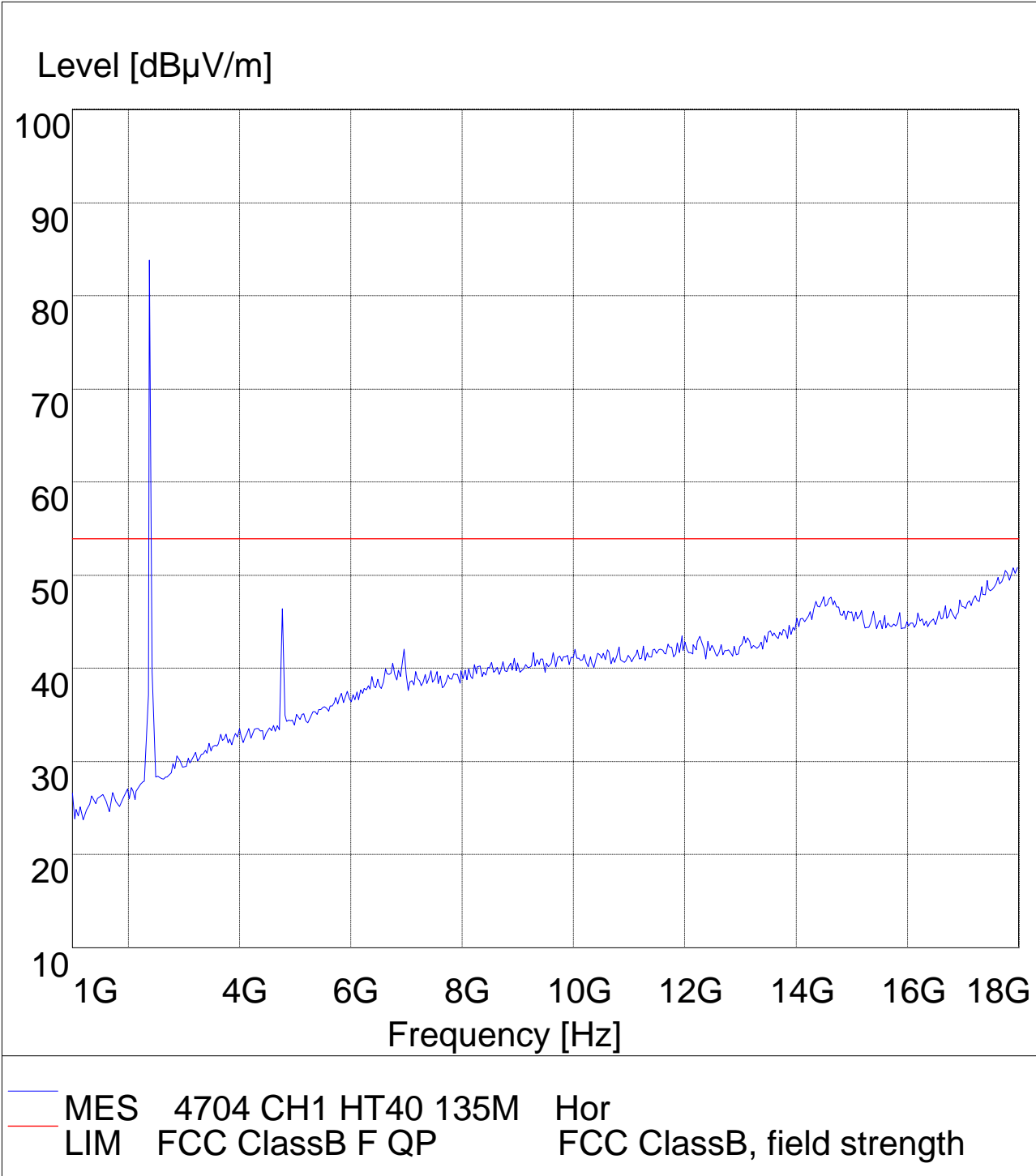




**TEST REPORT**

Please refer to the following test plots for details:

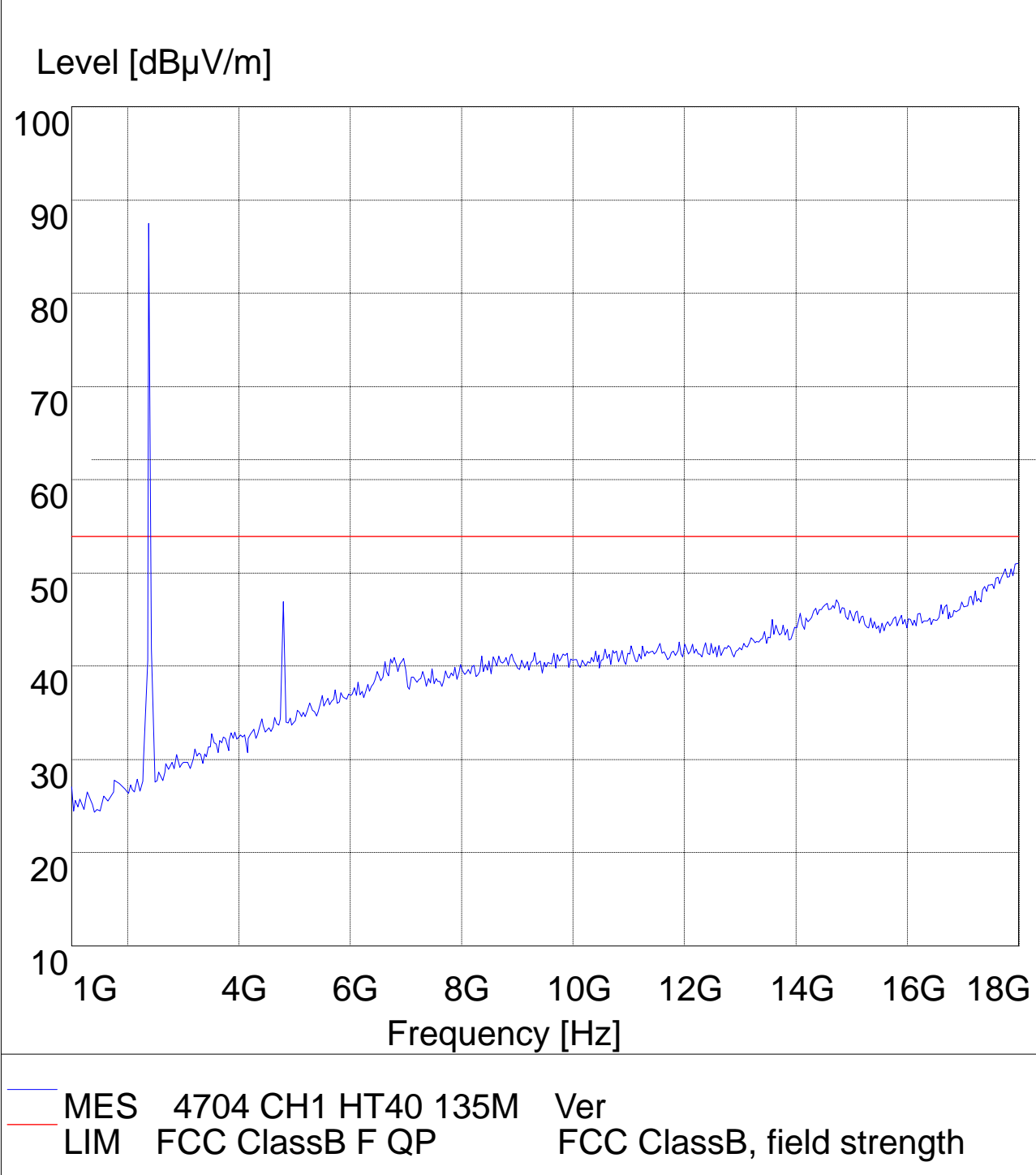
**CH01 at HT40 135Mbps: Horizontal**



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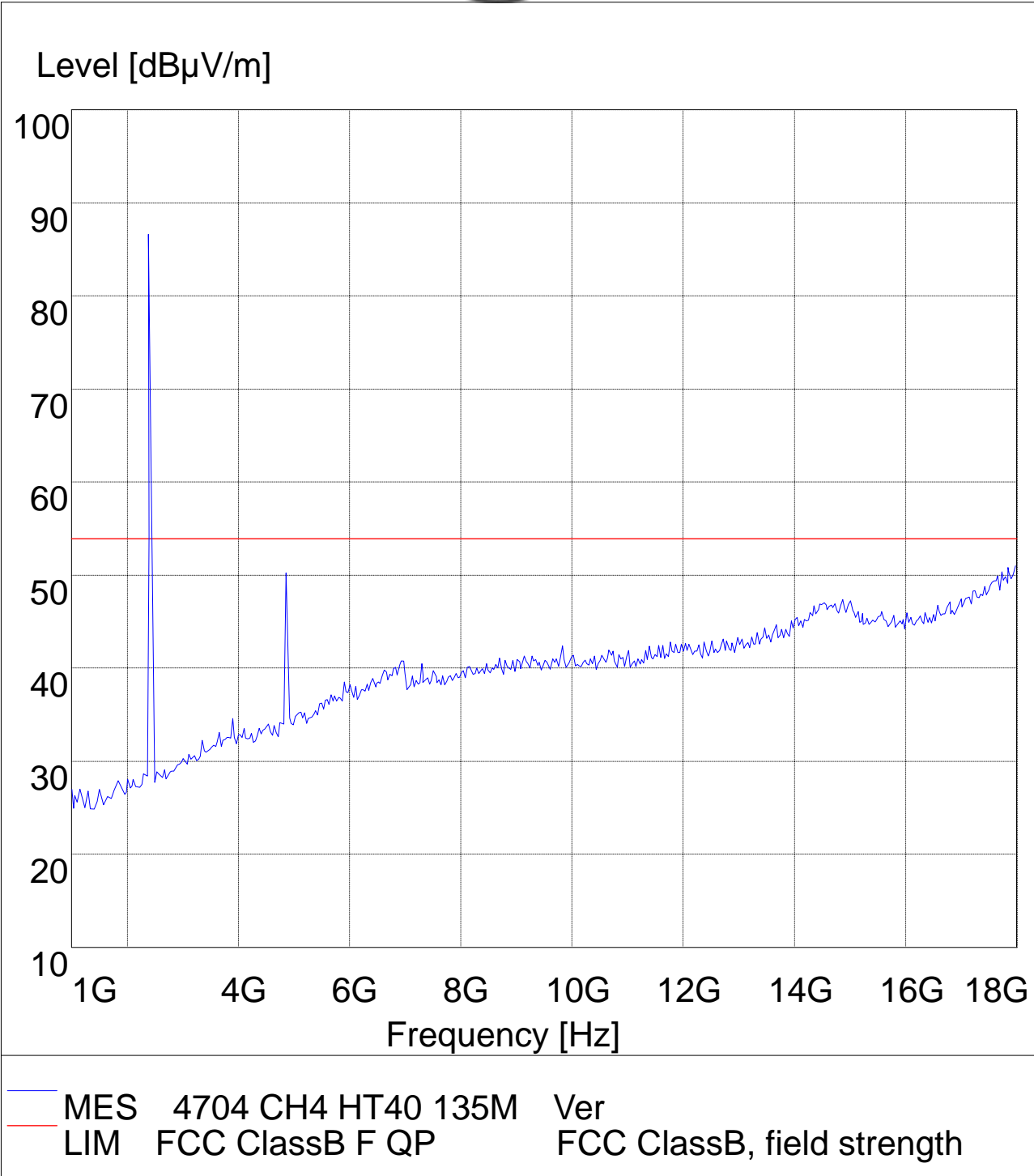
CH01 at HT40 135Mbps: Vertical



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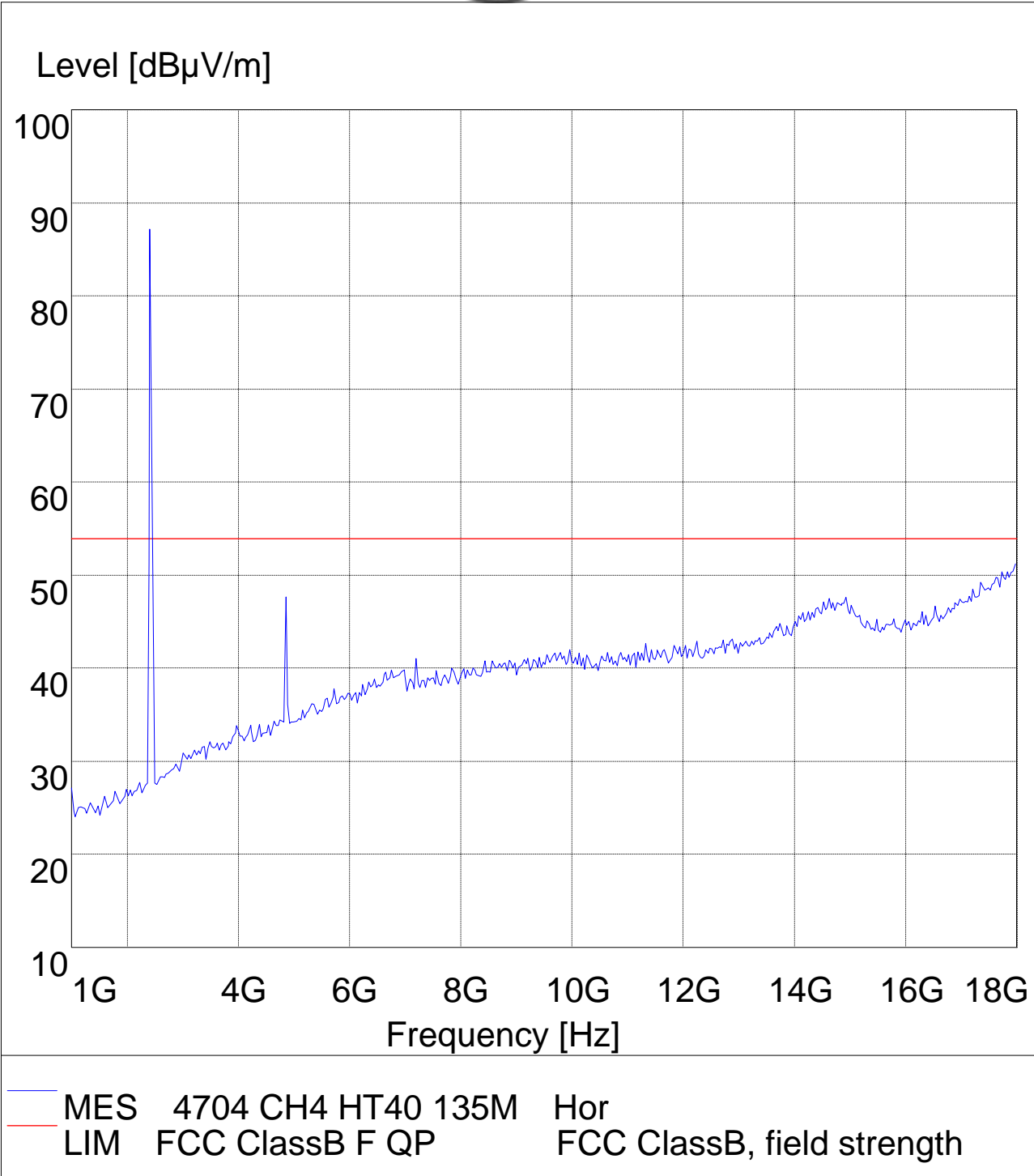
CH04 at HT40 135Mbps: Vertical



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CH04 at HT40 135Mbps: Horizontal

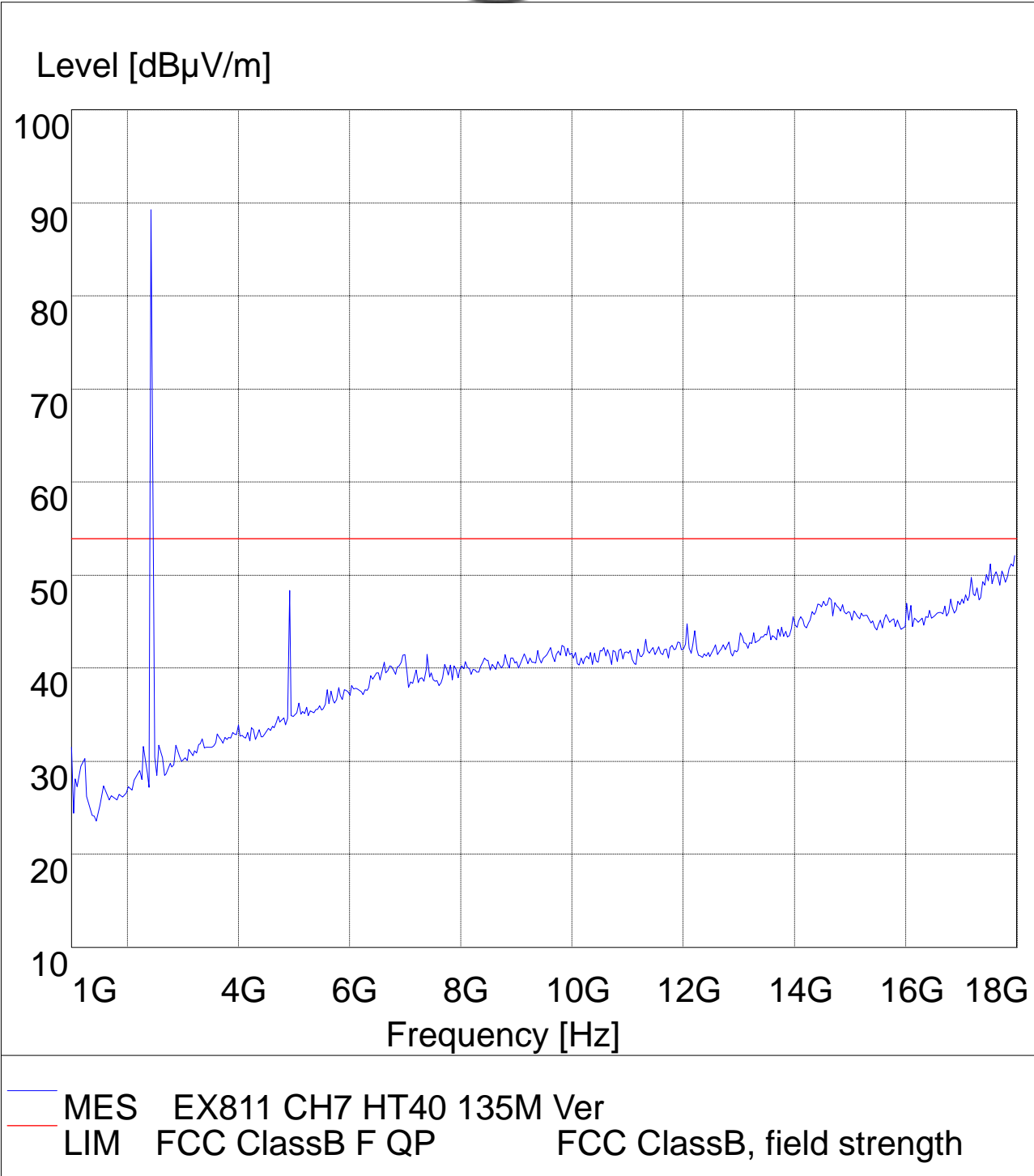


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TEST REPORT

CH07 at HT40 135Mbps: Vertical

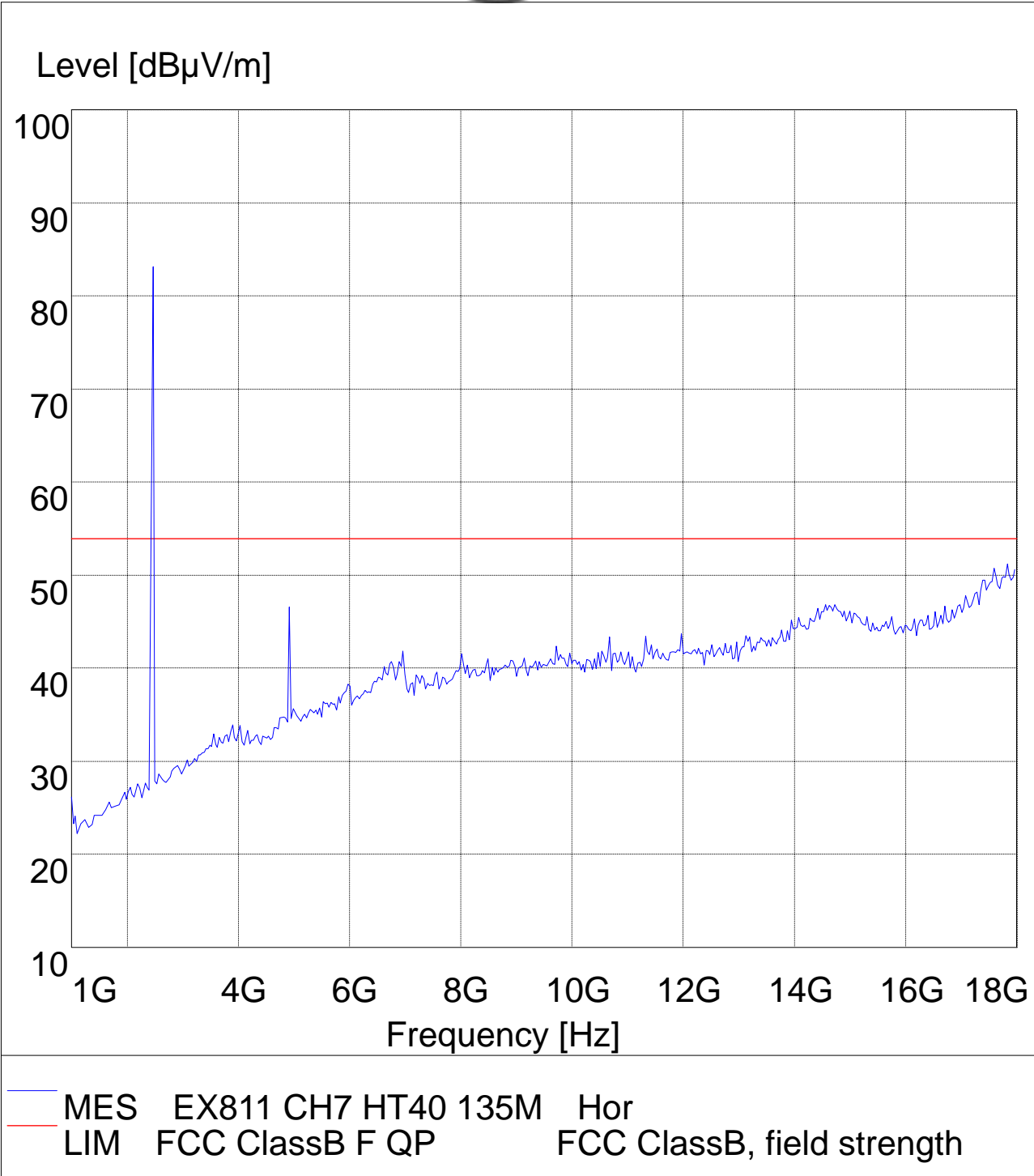


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TEST REPORT

CH07 at HT40 135Mbps: Horizontal

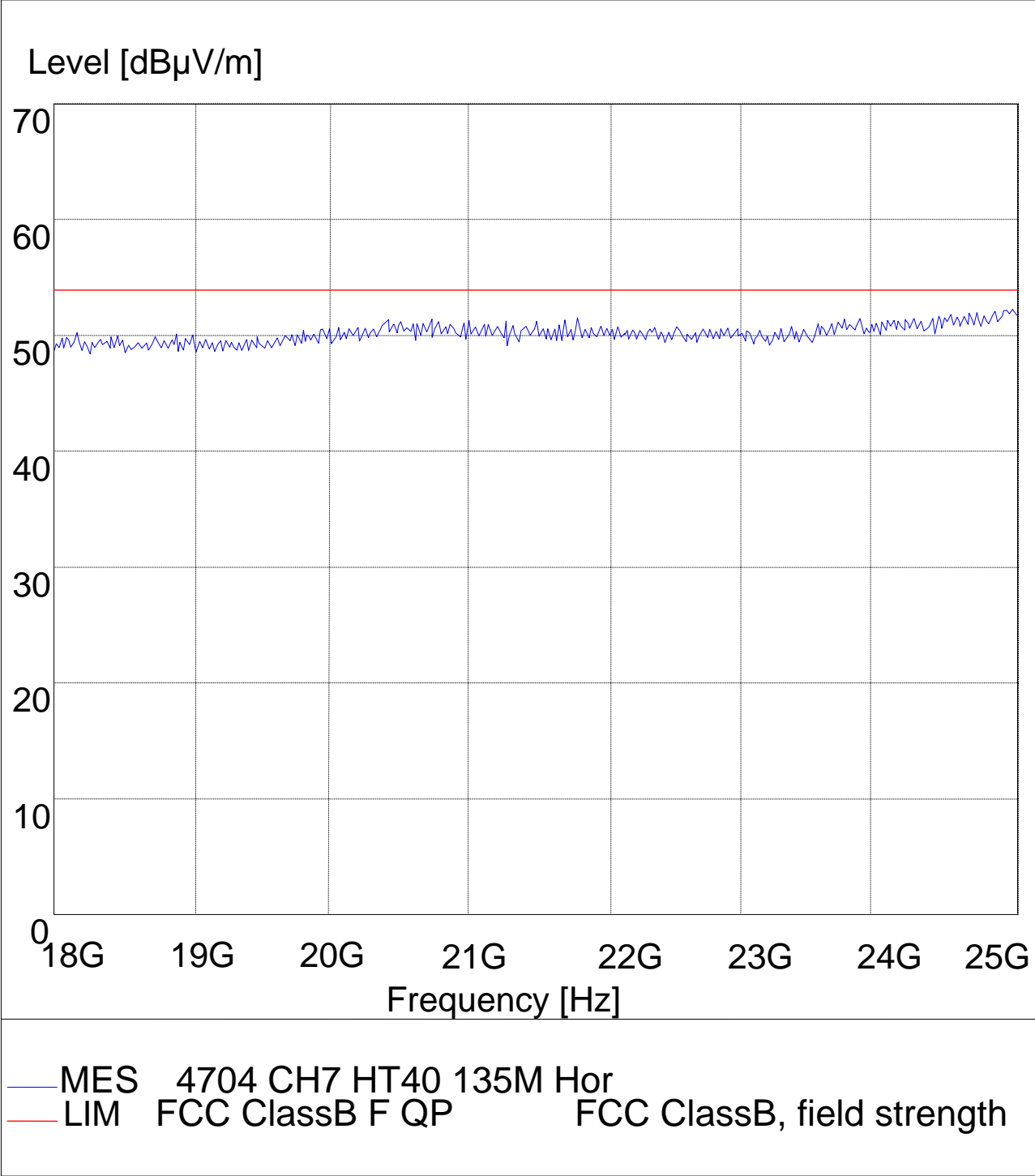


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TEST REPORT

18-25G  
CH7 at HT40 135Mbps Horizontal

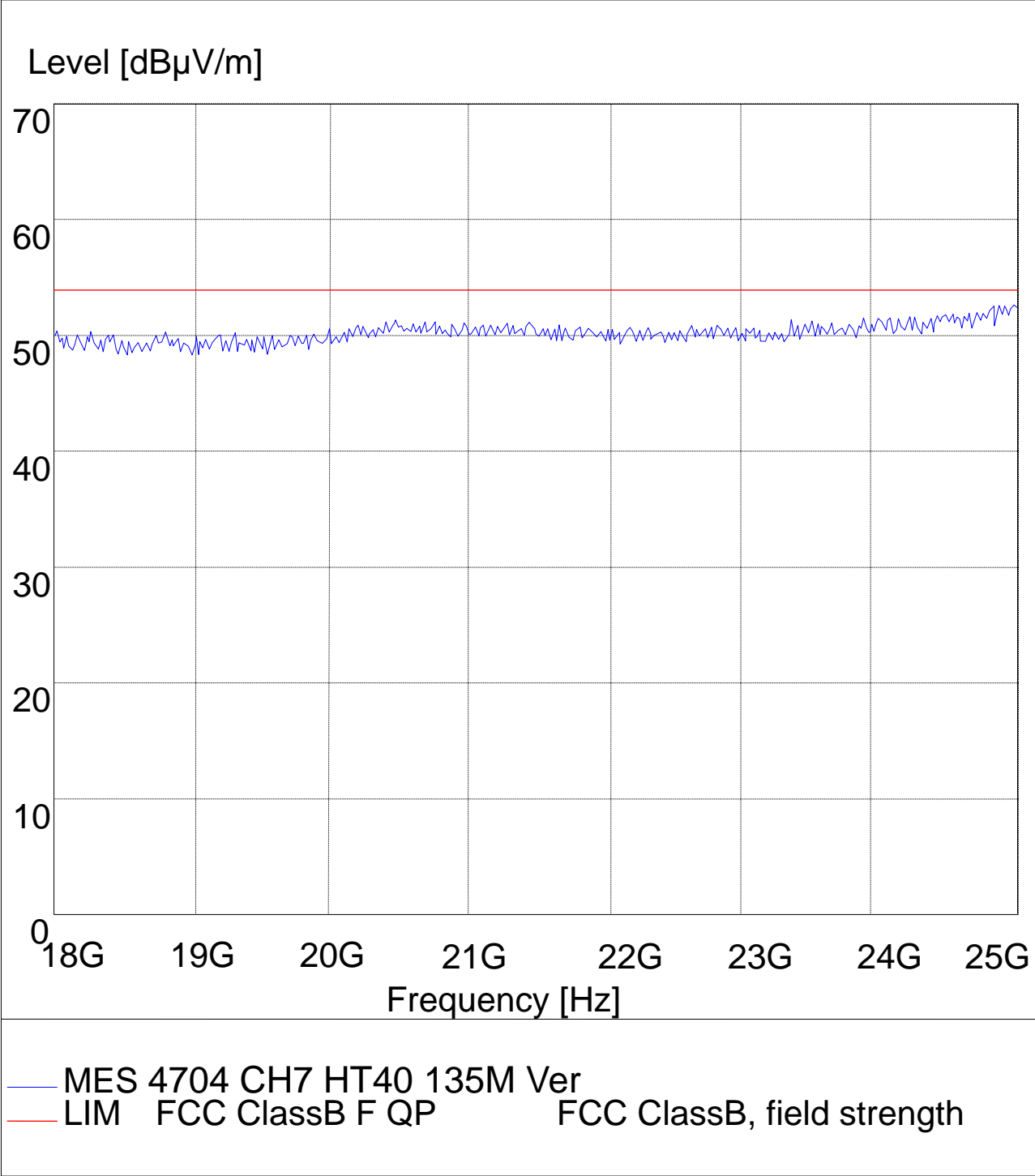


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TEST REPORT

18-25G  
CH7 at HT40 6Mbps Vertical



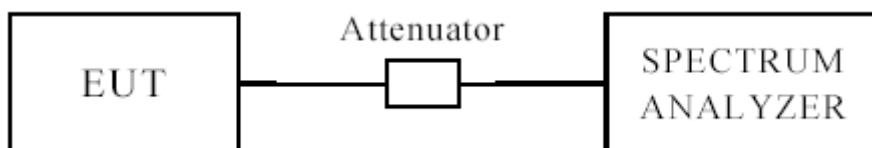
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## 7.0 6dB Bandwidth Measurement

### 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 for 802.11b/g and 802.11n HT20 mode; The bandwidth of the fundamental frequency was measured by spectrum analyzer with 500 kHz RBW and 500 kHz VBW for 802.11n HT40 mode 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	2.4G Wireless Adapter		Model	4704	
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	12.02	0.5	Pass
		11	11.94		
6	2437	1	12.10	0.5	Pass
		11	11.46		
11	2462	1	12.06	0.5	Pass
		11	11.66		

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

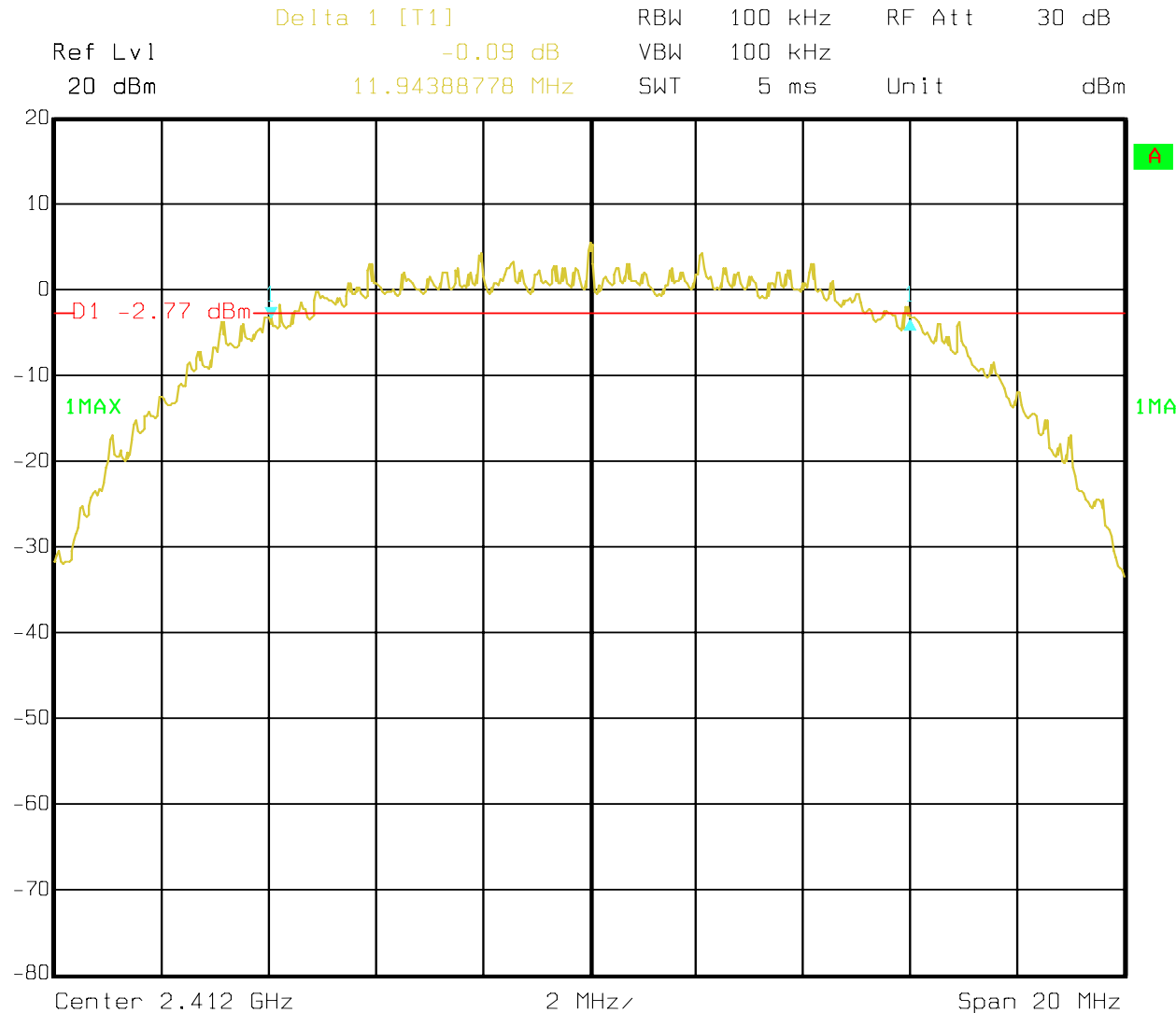
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Test Figure:

1. Condition: 802.11b at 11Mbps of CH01

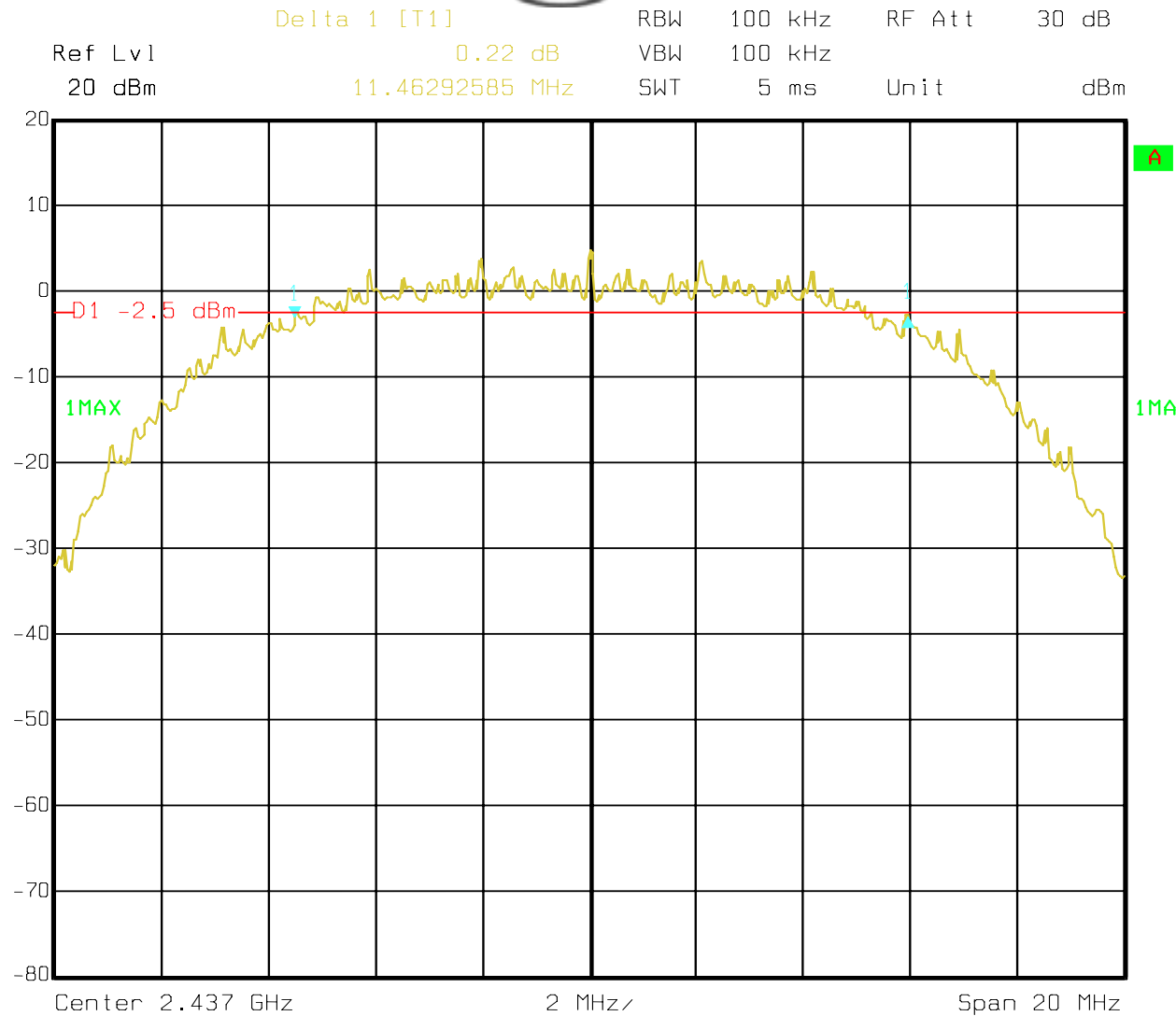


Date: 02.SEP.2009 22:42:22

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2. Condition: 802.11b at 11Mbps of CH06



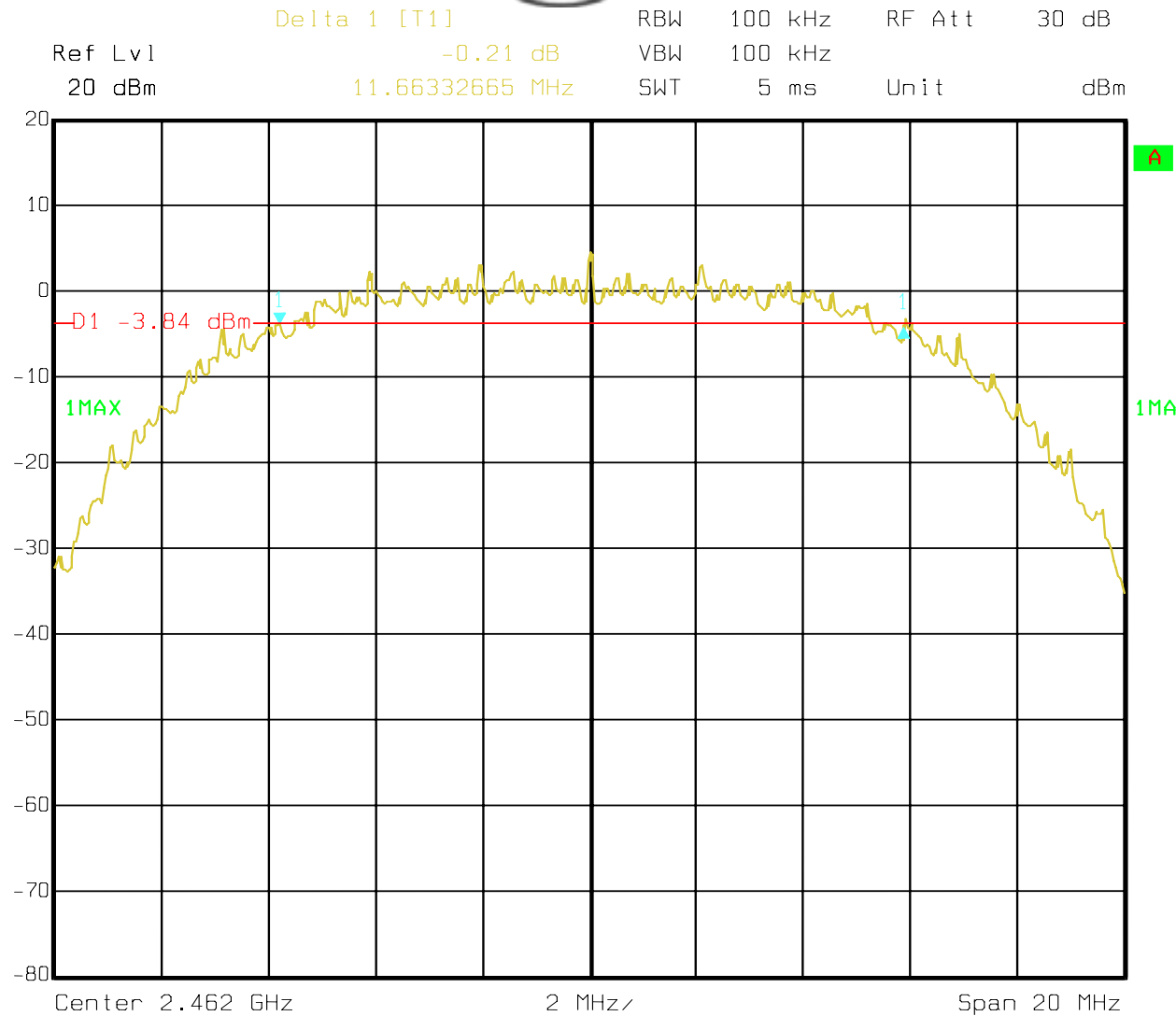
Date: 02.SEP.2009 22:41:22

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**TEST REPORT**

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



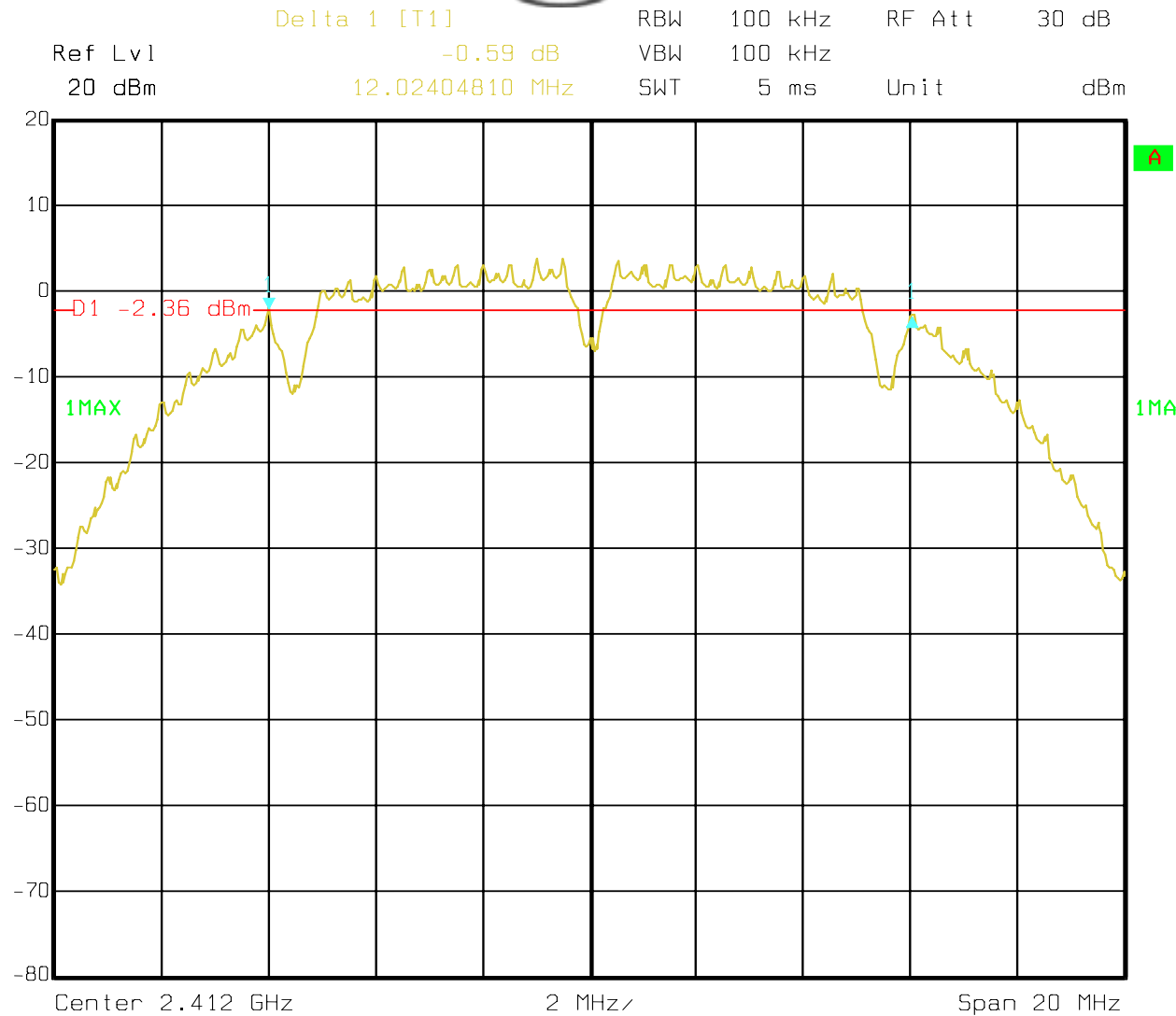
Date: 02.SEP.2009 22:40:15

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**TEST REPORT**

**4. 802.11b at 1Mbps of CH01**



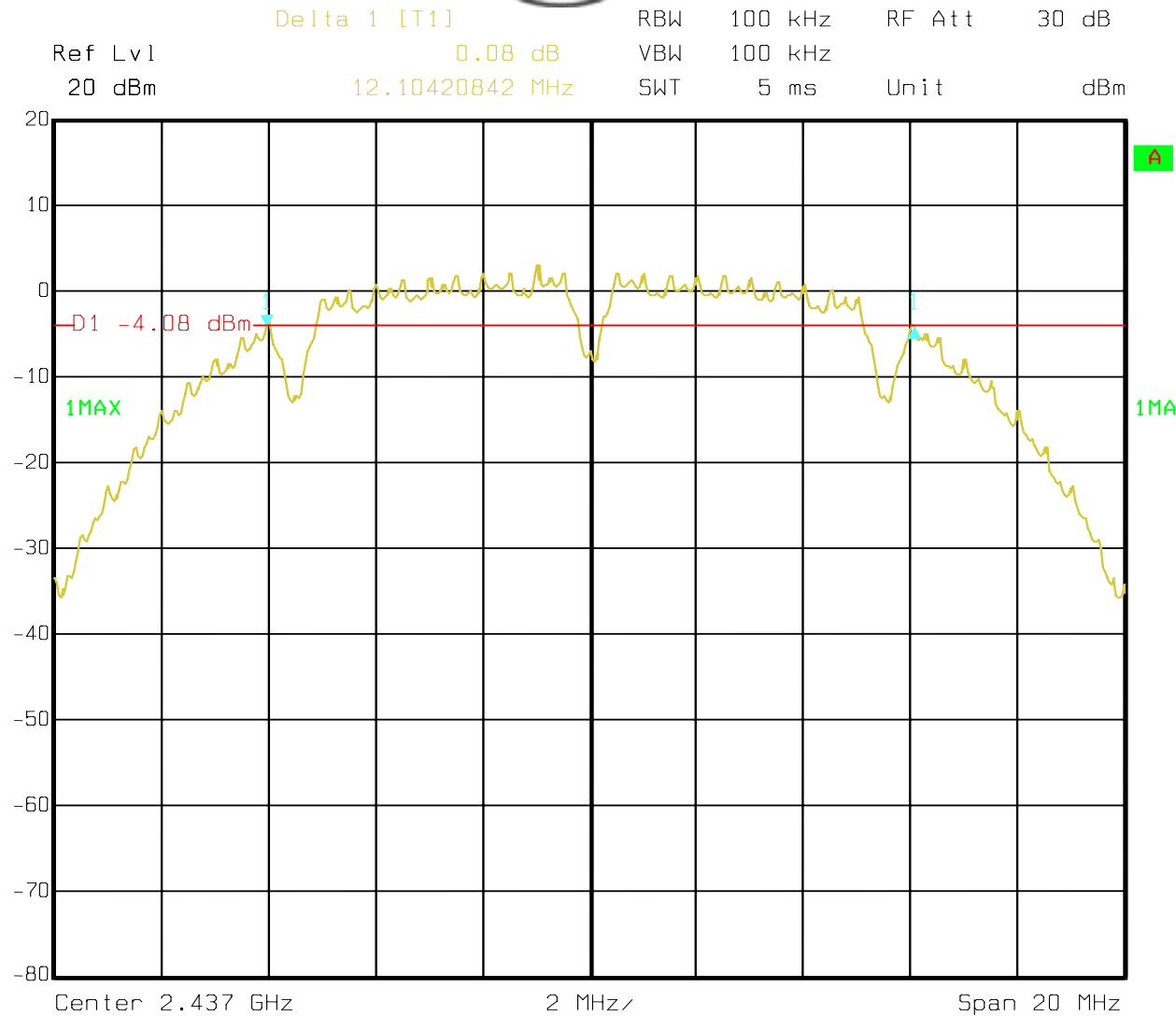
Date: 02.SEP.2009 22:35:43

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TEST REPORT

5. 802.11b at 1Mbps of CH06



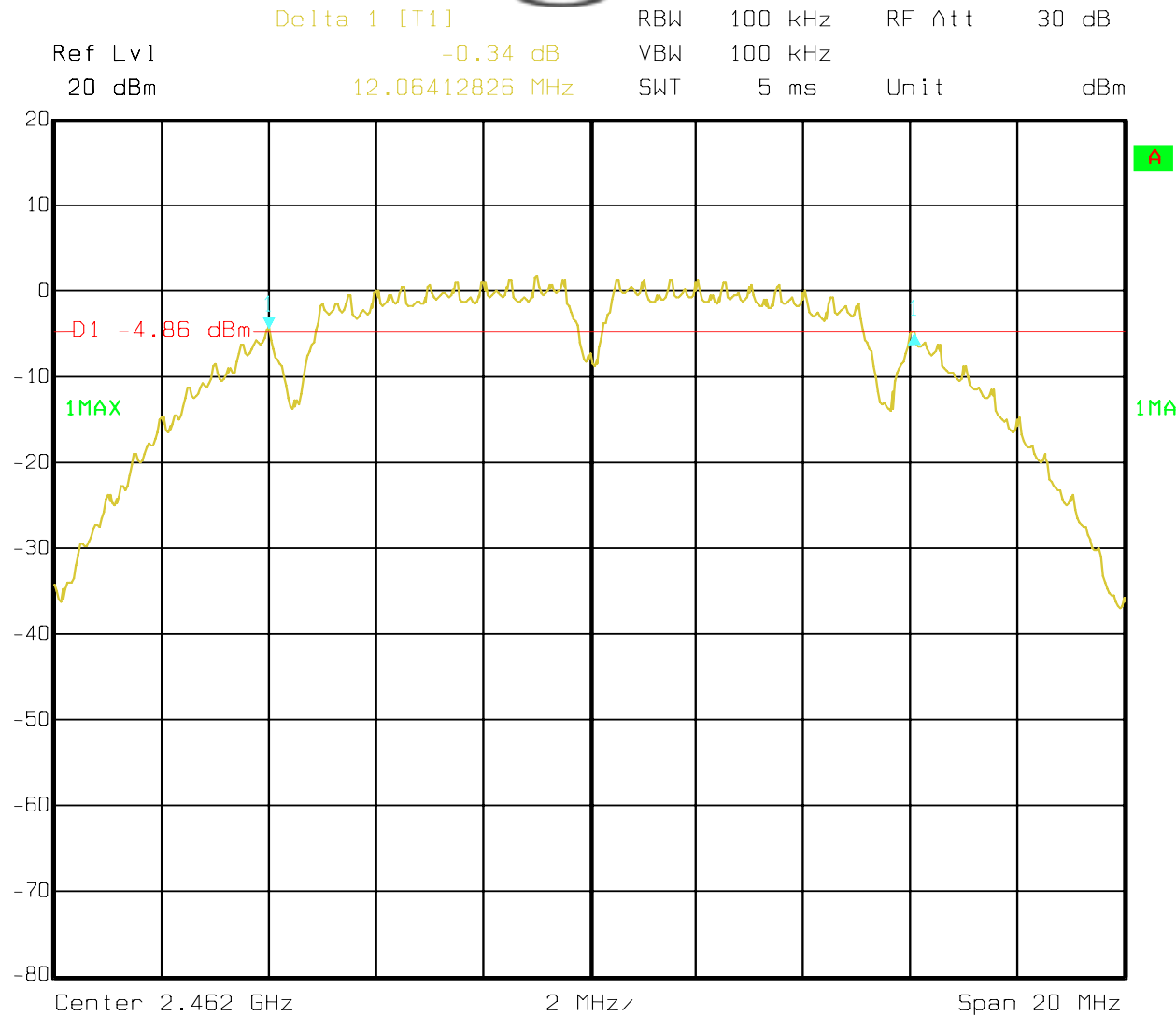
Date: 02.SEP.2009 22:37:08

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**TEST REPORT**

**6. 802.11b at 1Mbps of CH11**



Date: 02.SEP.2009 22:39:03

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EUT	2.4G Wireless Adapter		Model	4704	
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	16.31	0.5	Pass
		54	16.39		
6	2437	6	16.35	0.5	Pass
		54	16.31		
11	2462	6	16.35	0.5	Pass
		54	16.27		

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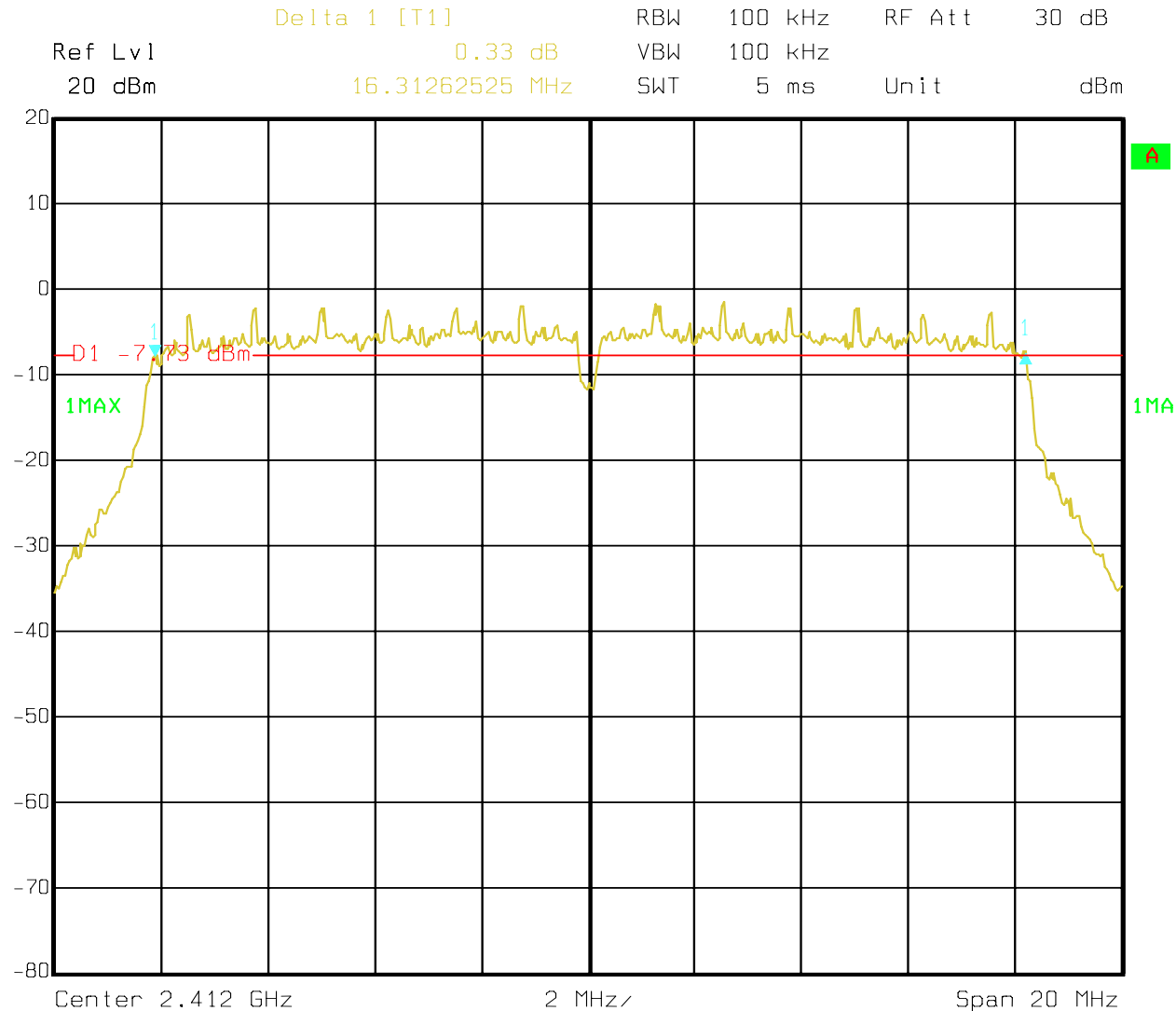




**TEST REPORT**

**Test Plots:**

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



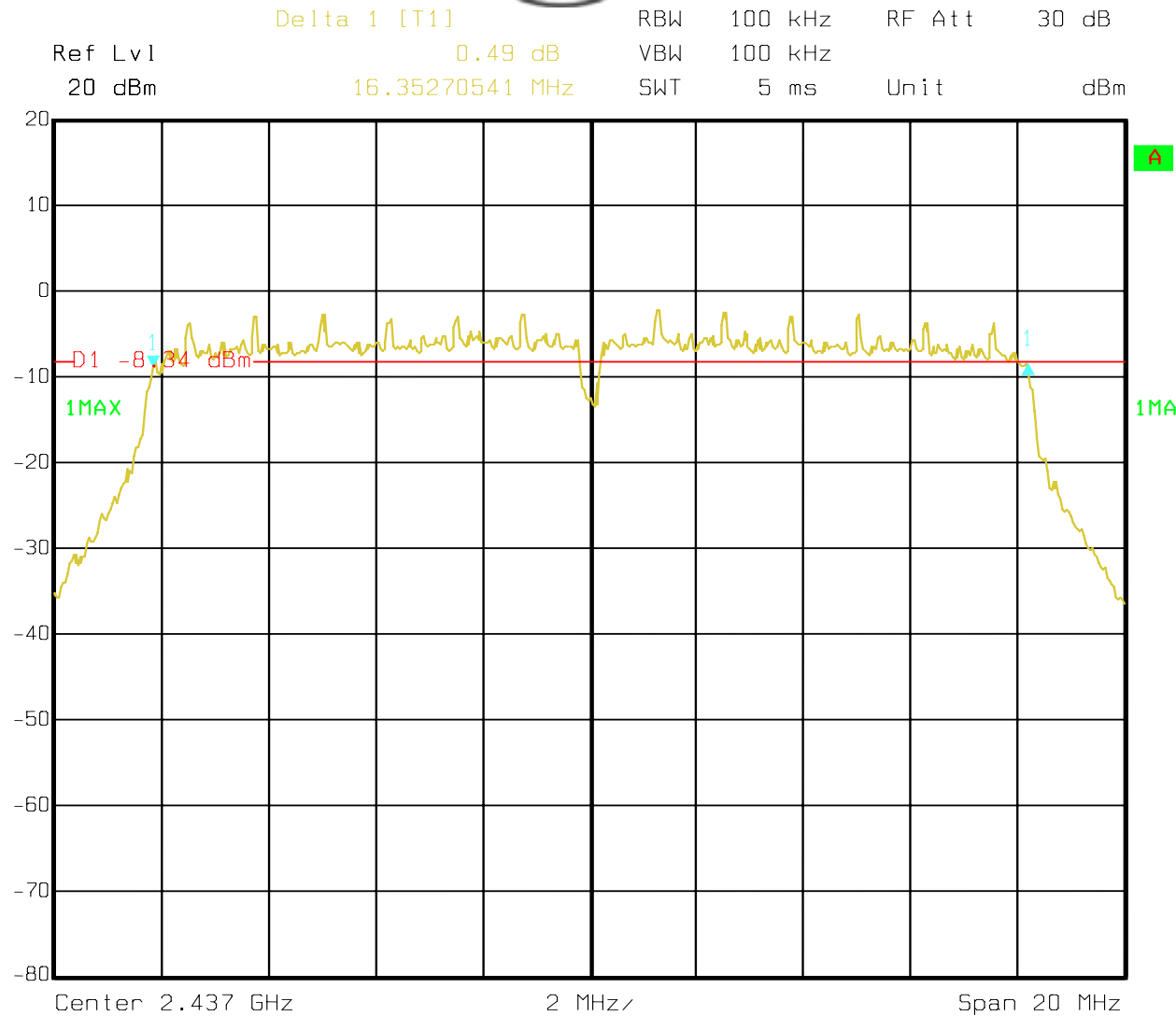
Date: 02.SEP.2009 22:51:24

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**TEST REPORT**

**2. 802.11g at 6Mbps of CH06**

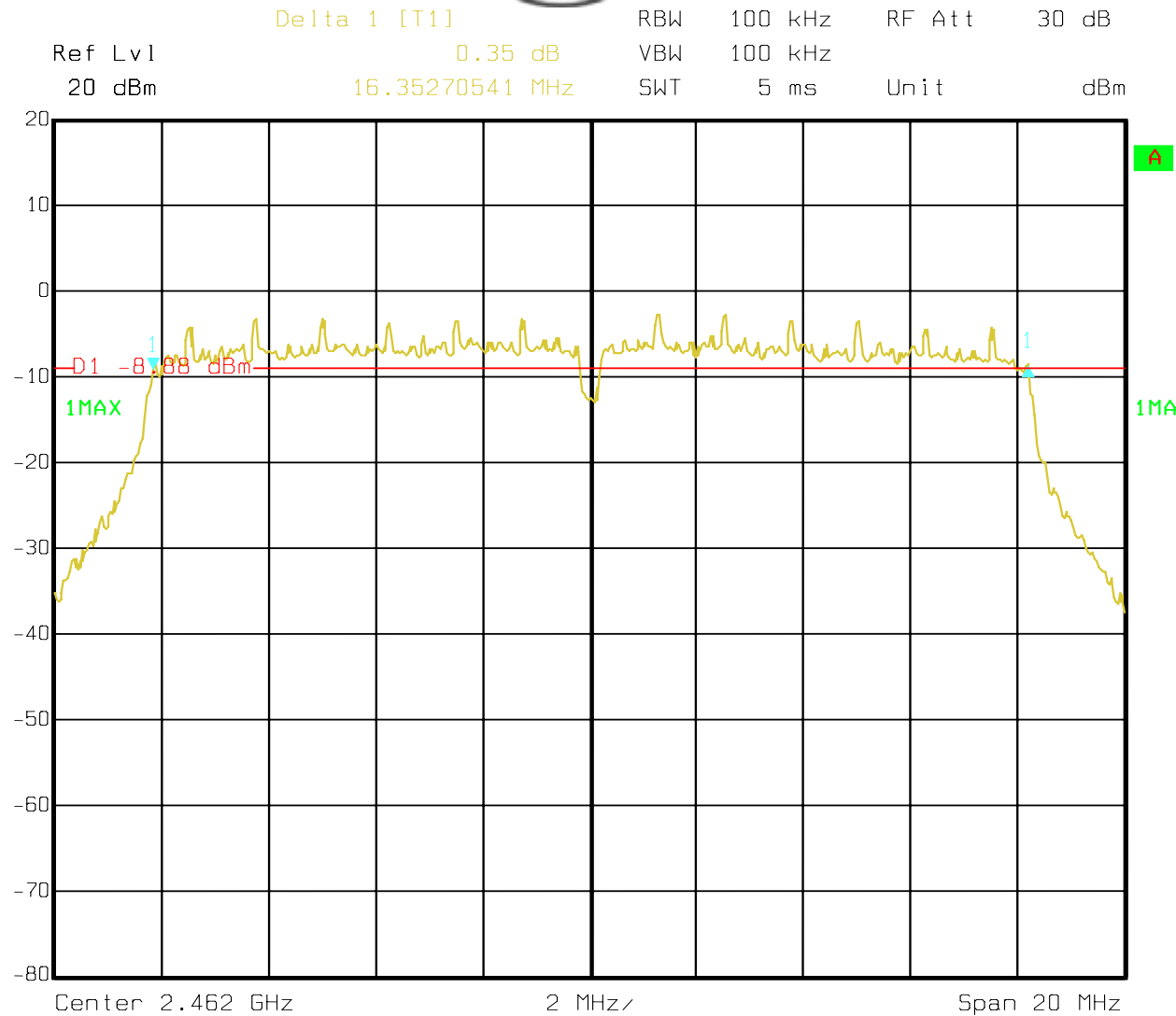


Date: 02.SEP.2009 22:52:47

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3. 802.11g at 6Mbps of CH11



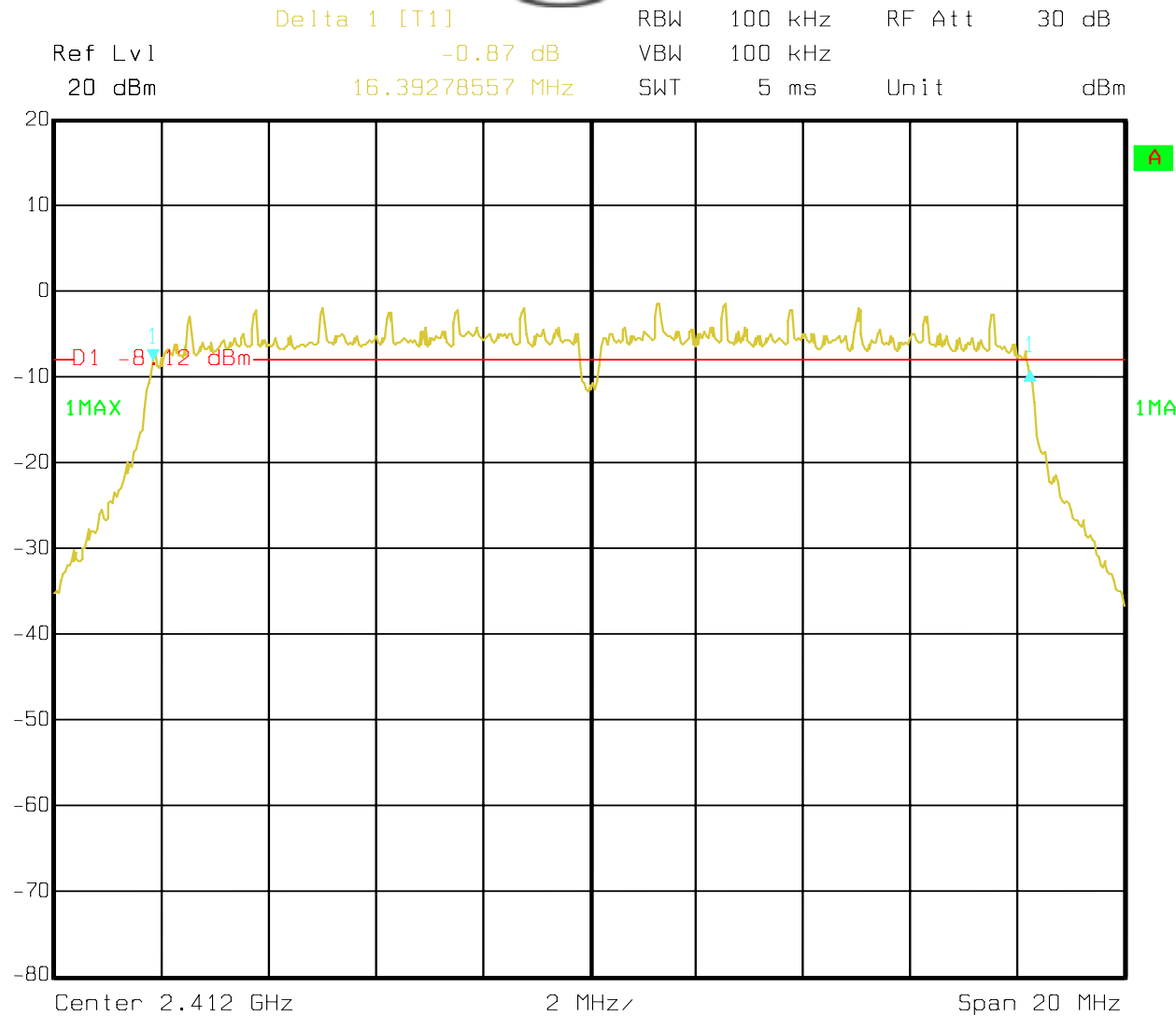
Date: 02.SEP.2009 22:53:58

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**TEST REPORT**

**4. 802.11g at 54Mbps of CH01**



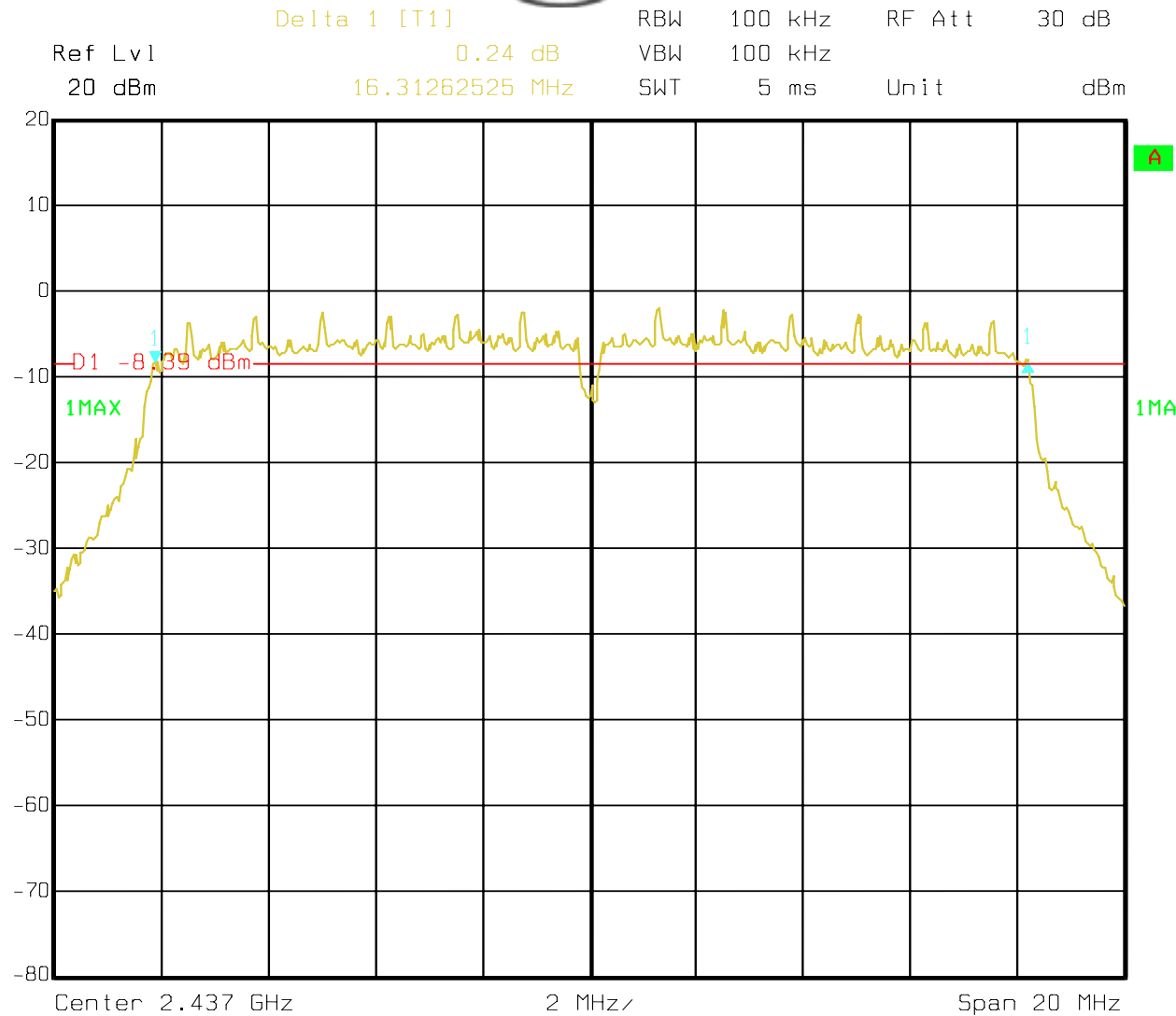
Date: 02.SEP.2009 22:49:32

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**TEST REPORT**

**5. 802.11g at 54Mbps of CH06**



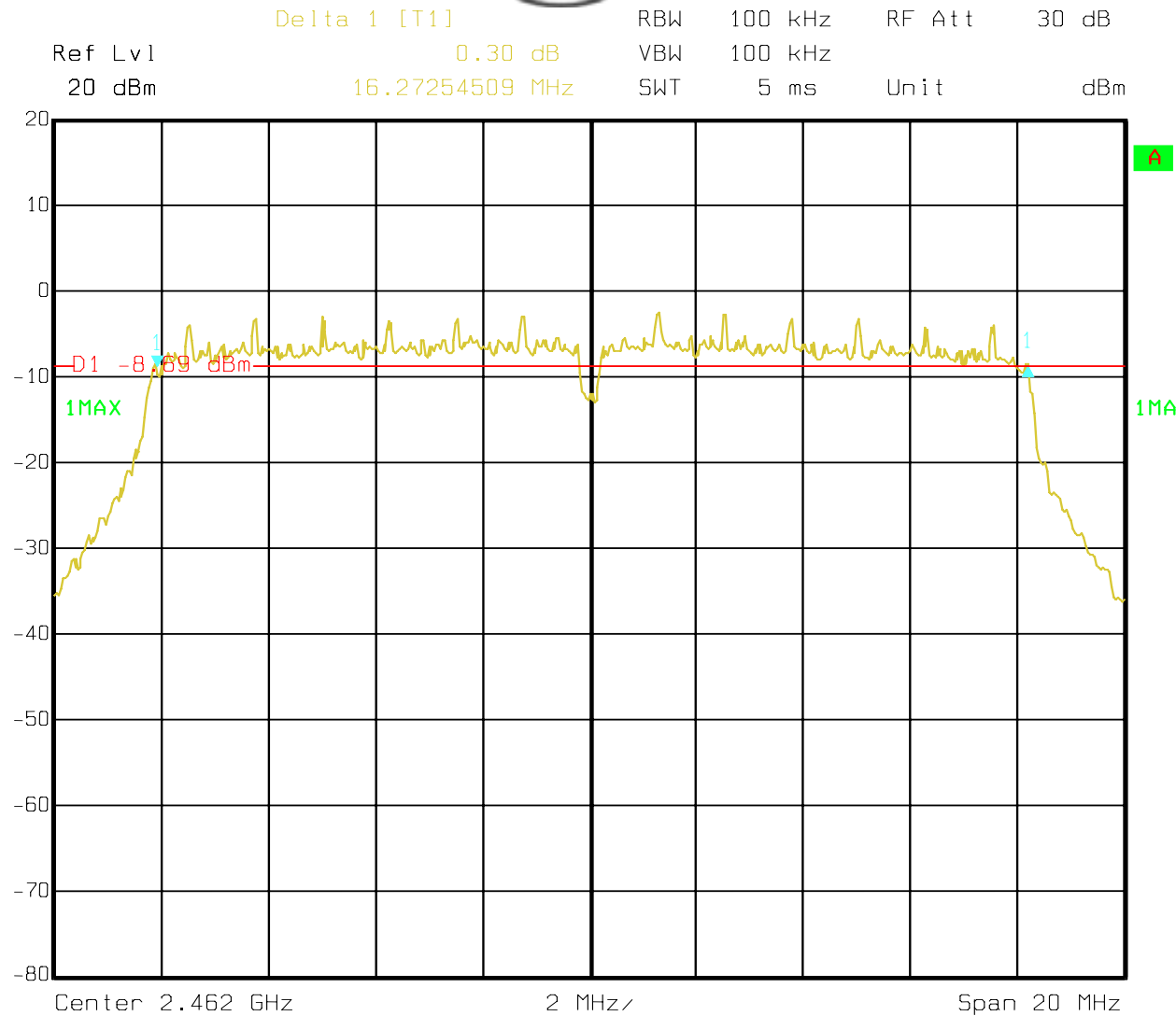
Date: 02.SEP.2009 22:48:38

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**TEST REPORT**

**6. 802.11g at 54Mbps of CH11**



Date: 02.SEP.2009 22:47:15

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EUT	2.4G Wireless Adapter		Model	4704	
Mode	IEEE 802.11n HT20 mode (one TX)		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	6.5	17.11	0.5	Pass
		135	17.03		
6	2437	6.5	17.03	0.5	Pass
		135	16.91		
11	2462	6.5	16.95	0.5	Pass
		135	16.91		

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

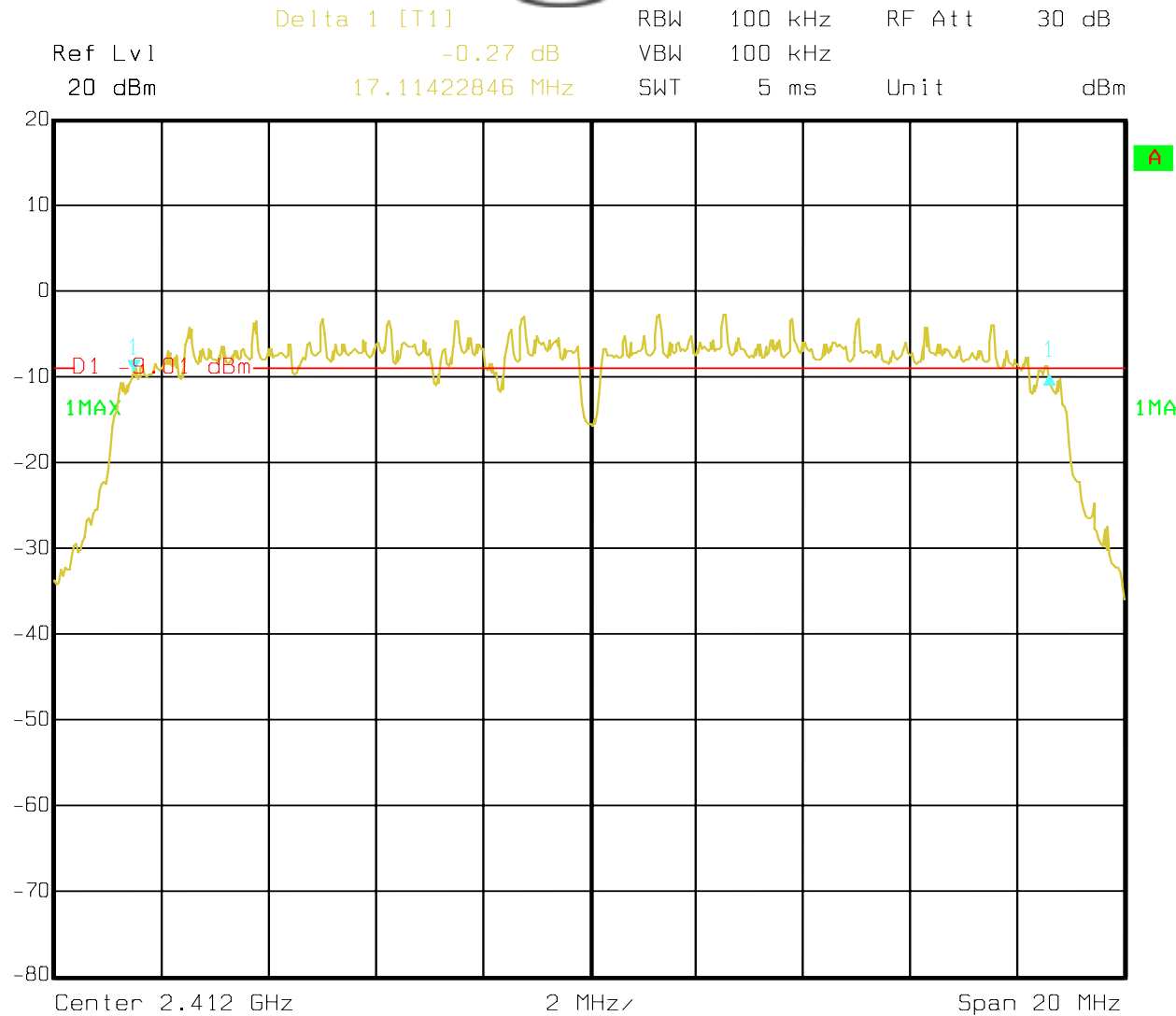
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**TEST REPORT**

**1. 802.11n at 6.5Mbps of CH1**



Date: 02.SEP.2009 23:42:52

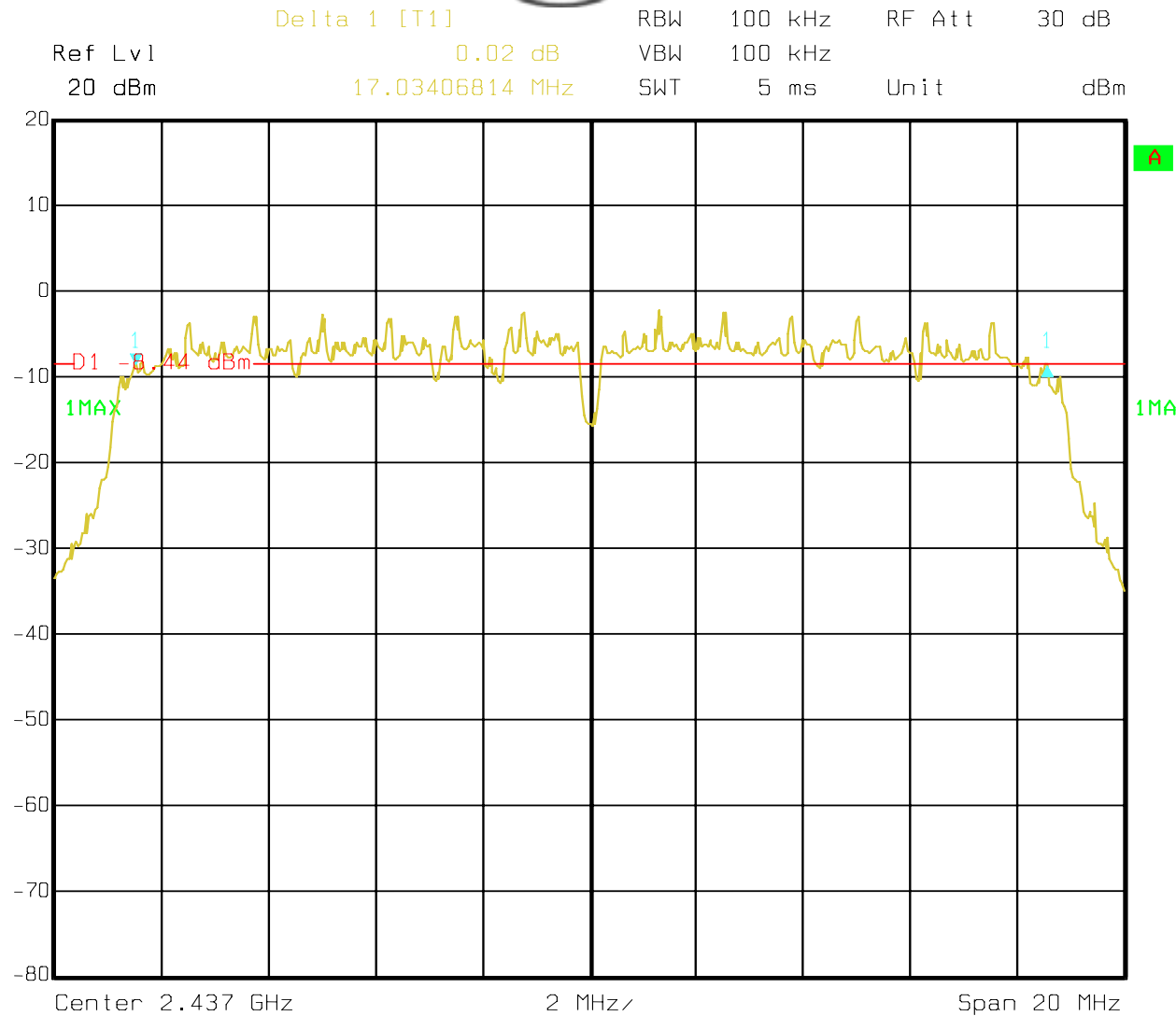
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**TEST REPORT**

**2. 802.11n at 6.5Mbps of CH6**

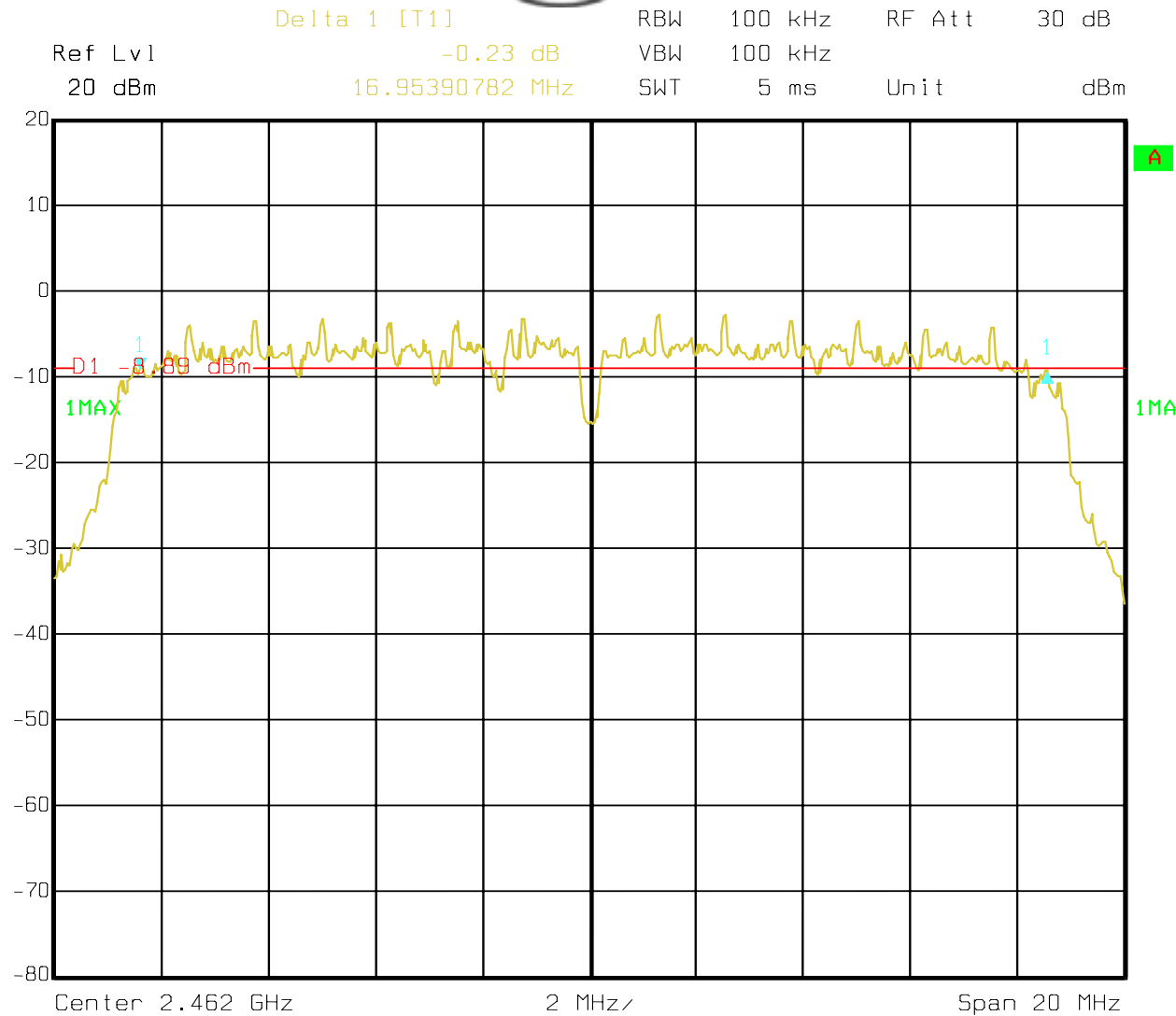


Date: 02.SEP.2009 22:58:45

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3. 802.11n at 6.5Mbps of CH11



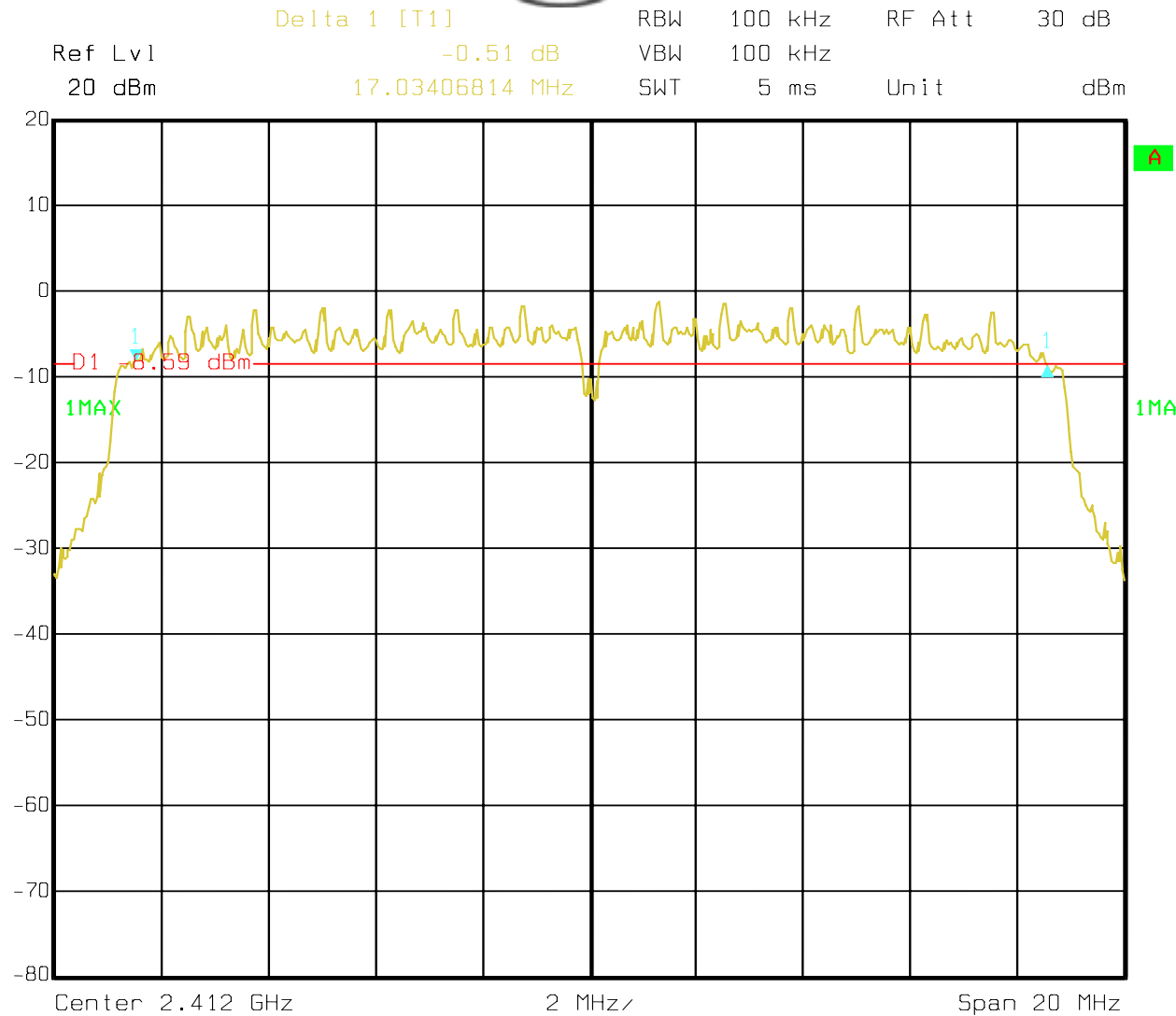
Date: 02.SEP.2009 22:58:03

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**TEST REPORT**

**4. 802.11n at 135Mbps of CH1**



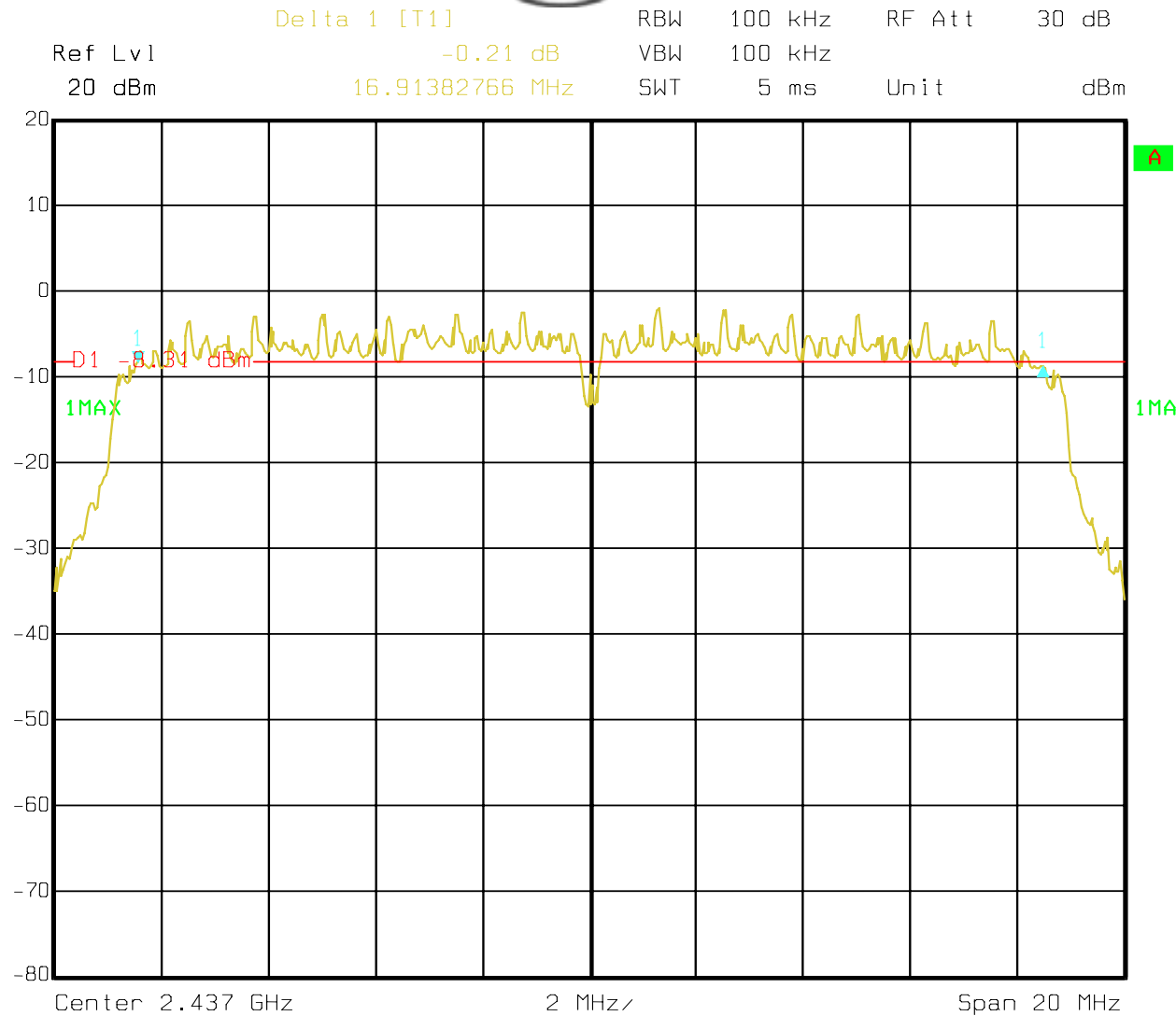
Date: 02.SEP.2009 23:01:01

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**TEST REPORT**

**5. 802.11n at 135Mbps of CH6**



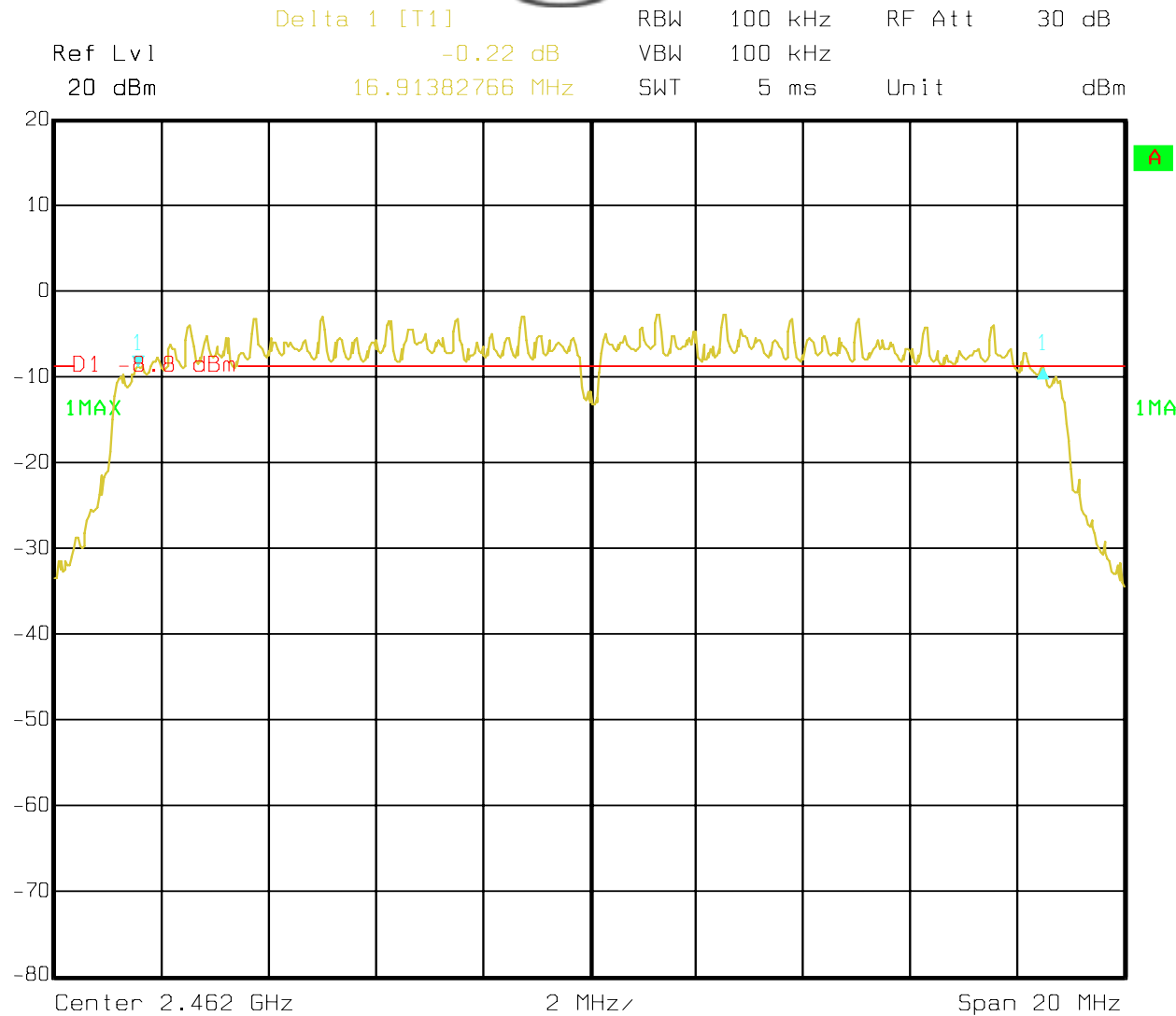
Date: 02.SEP.2009 22:59:28

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TEST REPORT

6. 802.11n at 135Mbps of CH11



Date: 02.SEP.2009 22:56:49

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EUT	2.4G Wireless Adapter		Model	4704	
Mode	IEEE 802.11n HT40 mode (one TX)		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	2422	6.5	35.83	0.5	Pass
		135	36.07		
4	2437	6.5	35.86	0.5	Pass
		135	36.22		
7	2452	6.5	35.83	0.5	Pass
		135	36.07		

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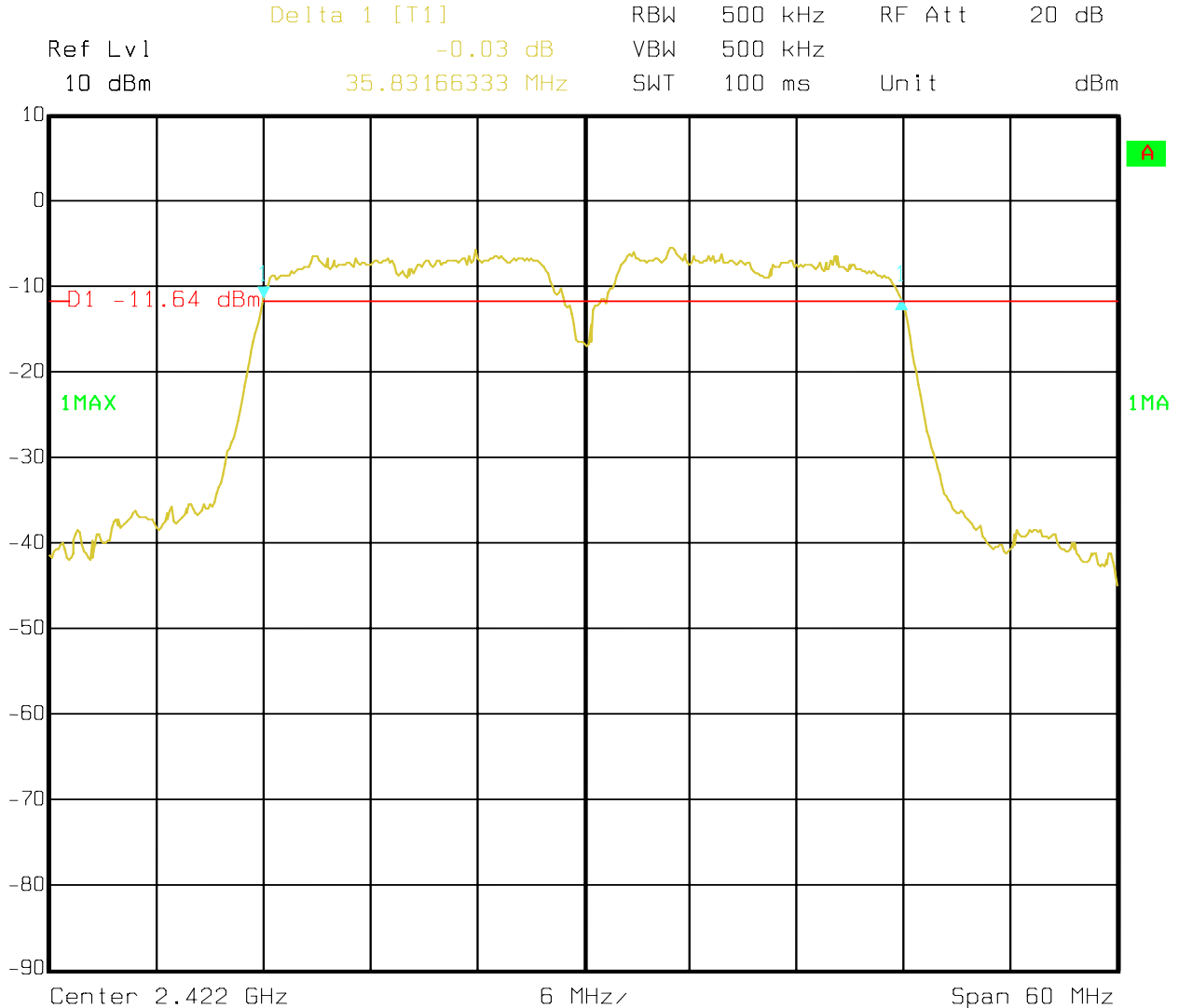
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## TEST REPORT

### 1. 802.11n at 6.5Mbps of CH1



Date: 25.SEP.2009 15:49:22

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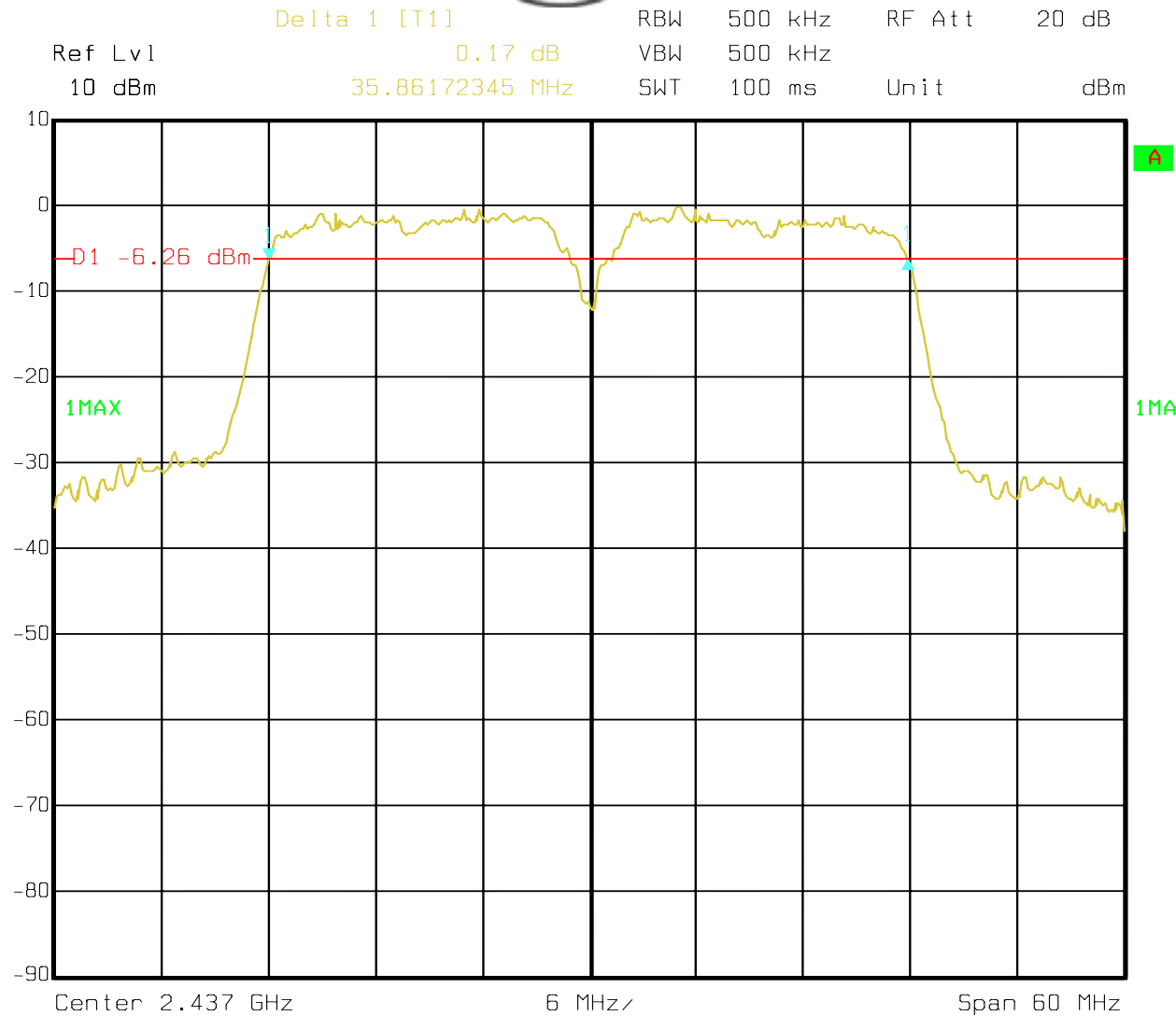
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**TEST REPORT**

**2. 802.11n at 6.5Mbps of CH4**



Date: 25.SEP.2009 15:52:07

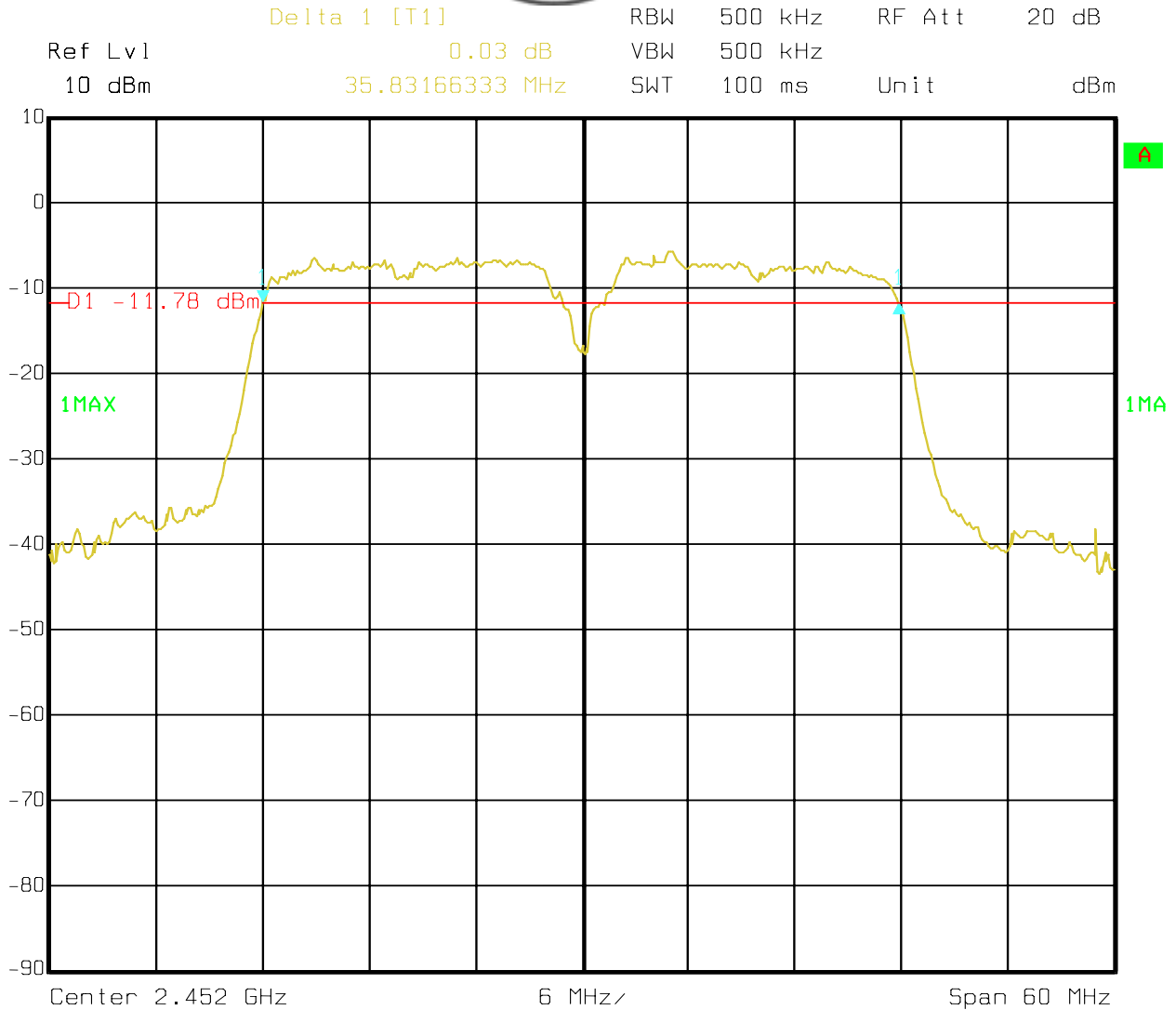
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## TEST REPORT

### 3. 802.11n at 6.5Mbps of CH7



Date: 25.SEP.2009 15:46:07

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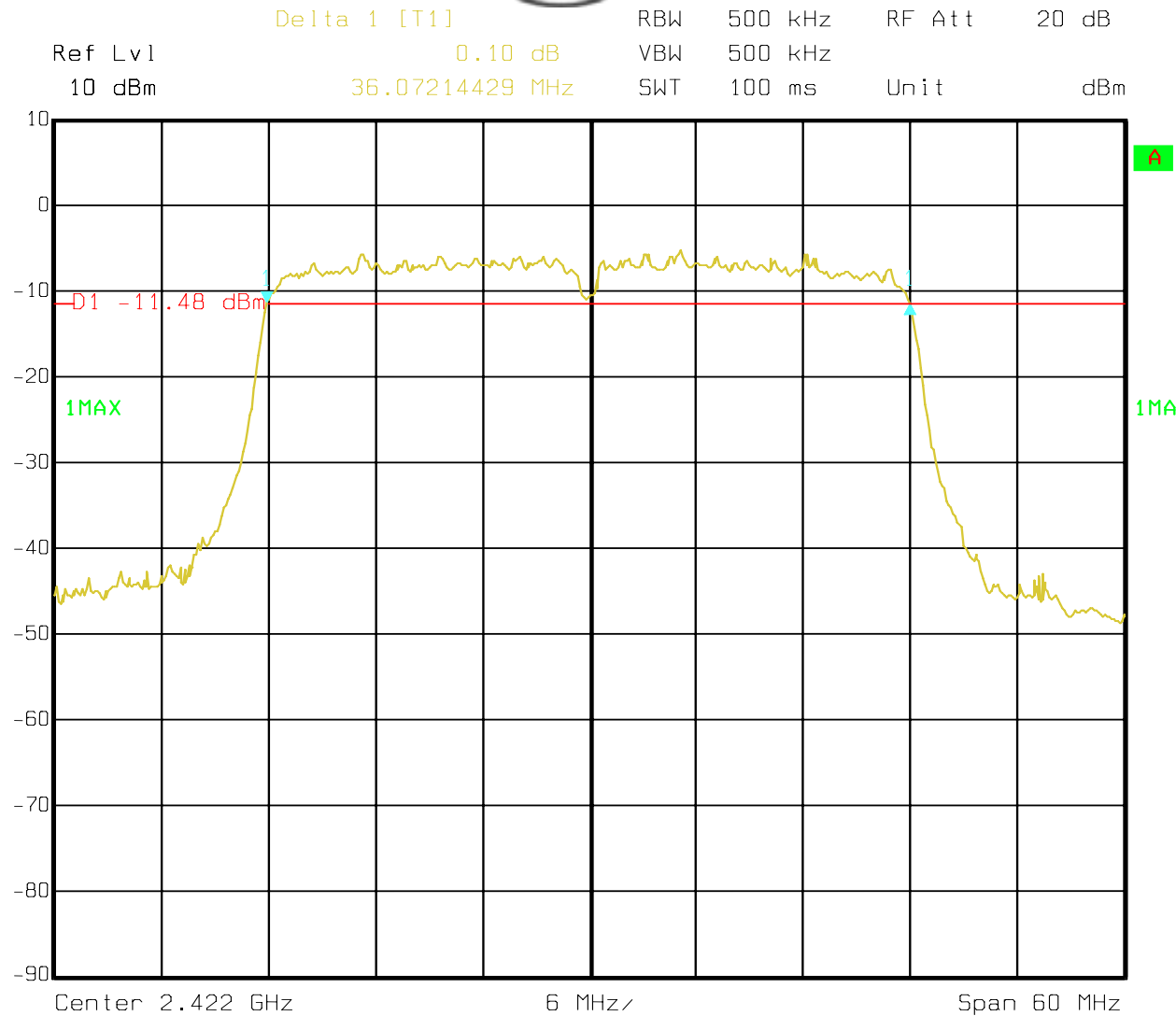
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TEST REPORT

4. 802.11n at 135Mbps of CH1



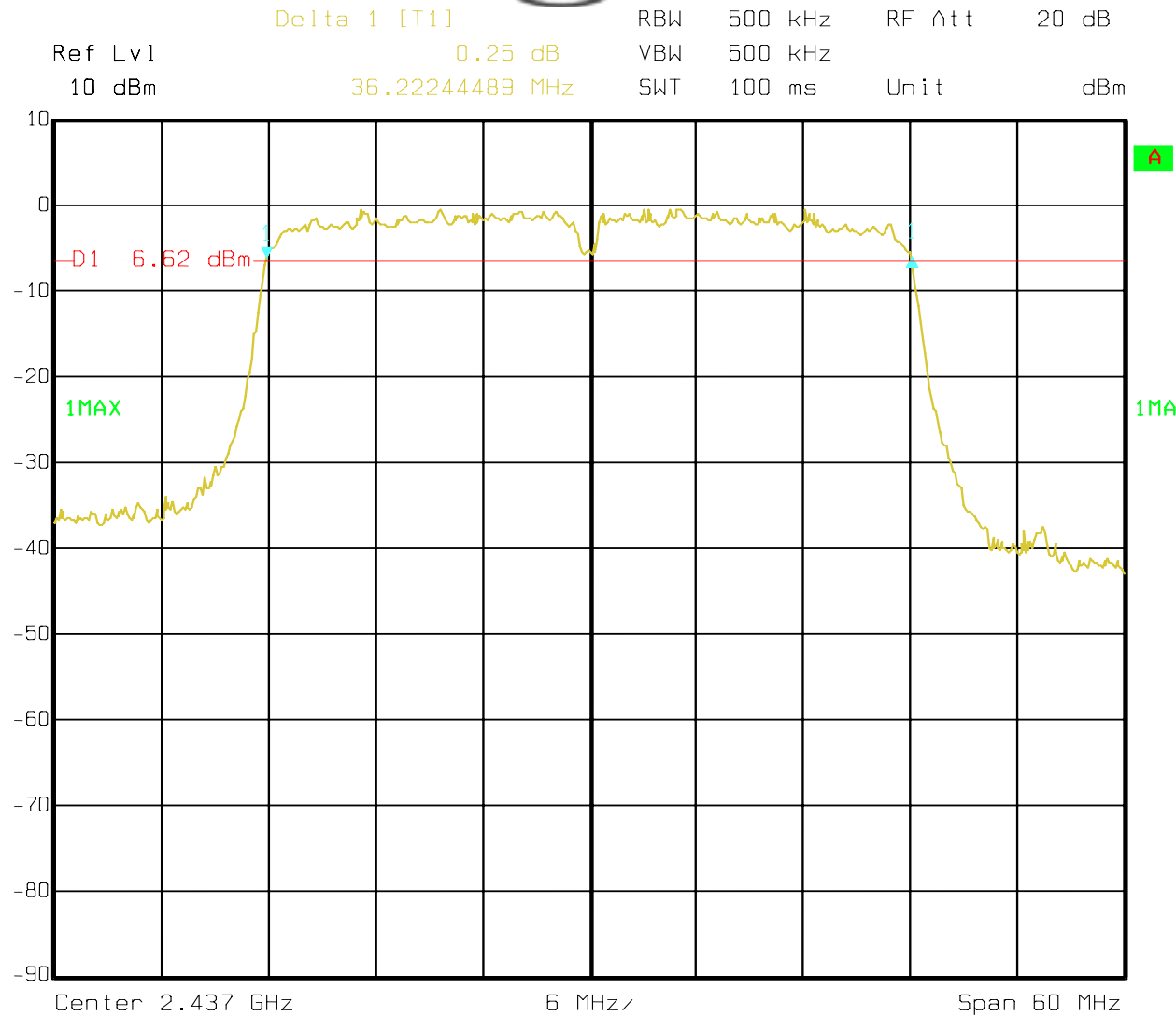
Date: 25.SEP.2009 15:50:19

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**TEST REPORT**

**5. 802.11n at 135Mbps of CH4**

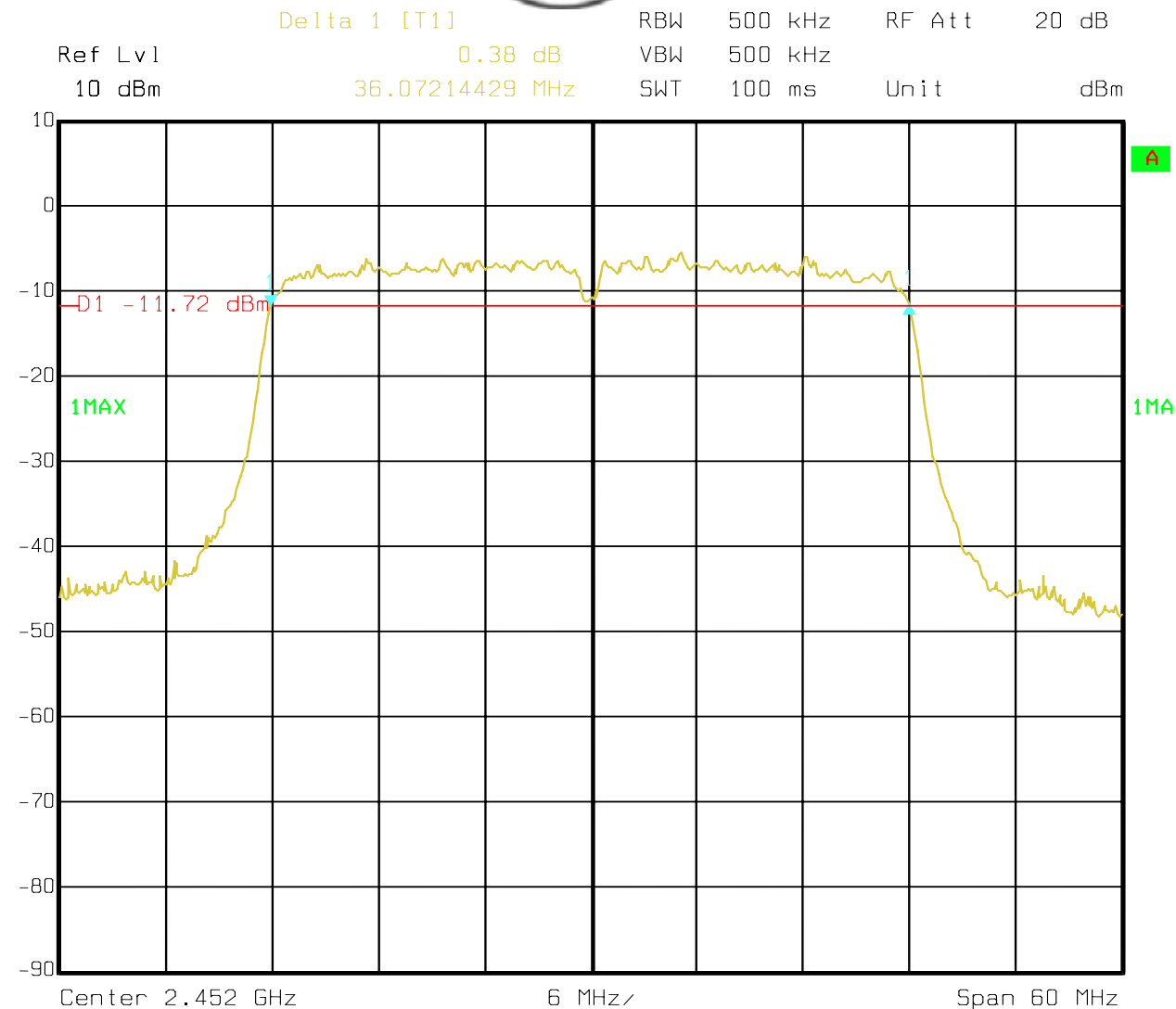


Date: 25.SEP.2009 15:53:06

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6. 802.11n at 135Mbps of CH7



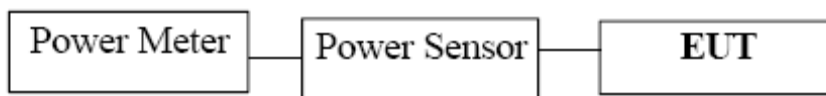
Date: 25.SEP.2009 15:47:25

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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.

**Note: the peak power was measured**

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#### 8.4 Test Results

EUT		2.4G Wireless Adapter		Model		4704	
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		18.44		30		Pass
6	2437		18.87		30		Pass
11	2462		18.35		30		Pass

Note: 1. At final test to get the worst-case emission at 1Mbps 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		2.4G Wireless Adapter		Model		4704	
Mode		802.11g		Input Voltage		AC 110	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		17.51		30		Pass
6	2437		18.01		30		Pass
11	2462		17.29		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:

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

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EUT	2.4G Wireless Adapter		Model	4704
Mode	802.11n HT20		Input Voltage	AC 110V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	17.09	30	Pass
6	2437	17.39	30	Pass
11	2462	16.92	30	Pass

Note: 1. At final test to get the worst-case emission at 135Mbps 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	2.4G Wireless Adapter		Model	4704
Mode	802.11n HT40		Input Voltage	AC 110V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2422	17.29	30	Pass
4	2437	17.09	30	Pass
7	2452	17.70	30	Pass

Note: 1. At final test to get the worst-case emission at 135Mbps for CH01, CH04 and CH07

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.

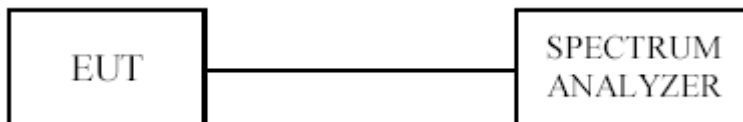
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## 9. Power Spectral Density Measurement

### 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, **PK detector**.

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		2.4G Wireless Adapter		Model		4704	
Mode		802.11b		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		4.60		8		Pass
6	2437		4.21		8		Pass
11	2462		4.83		8		Pass

Note: For 802.11b mode at final test to get the worst-case emission at 1Mbps for CH11, CH06 and CH01

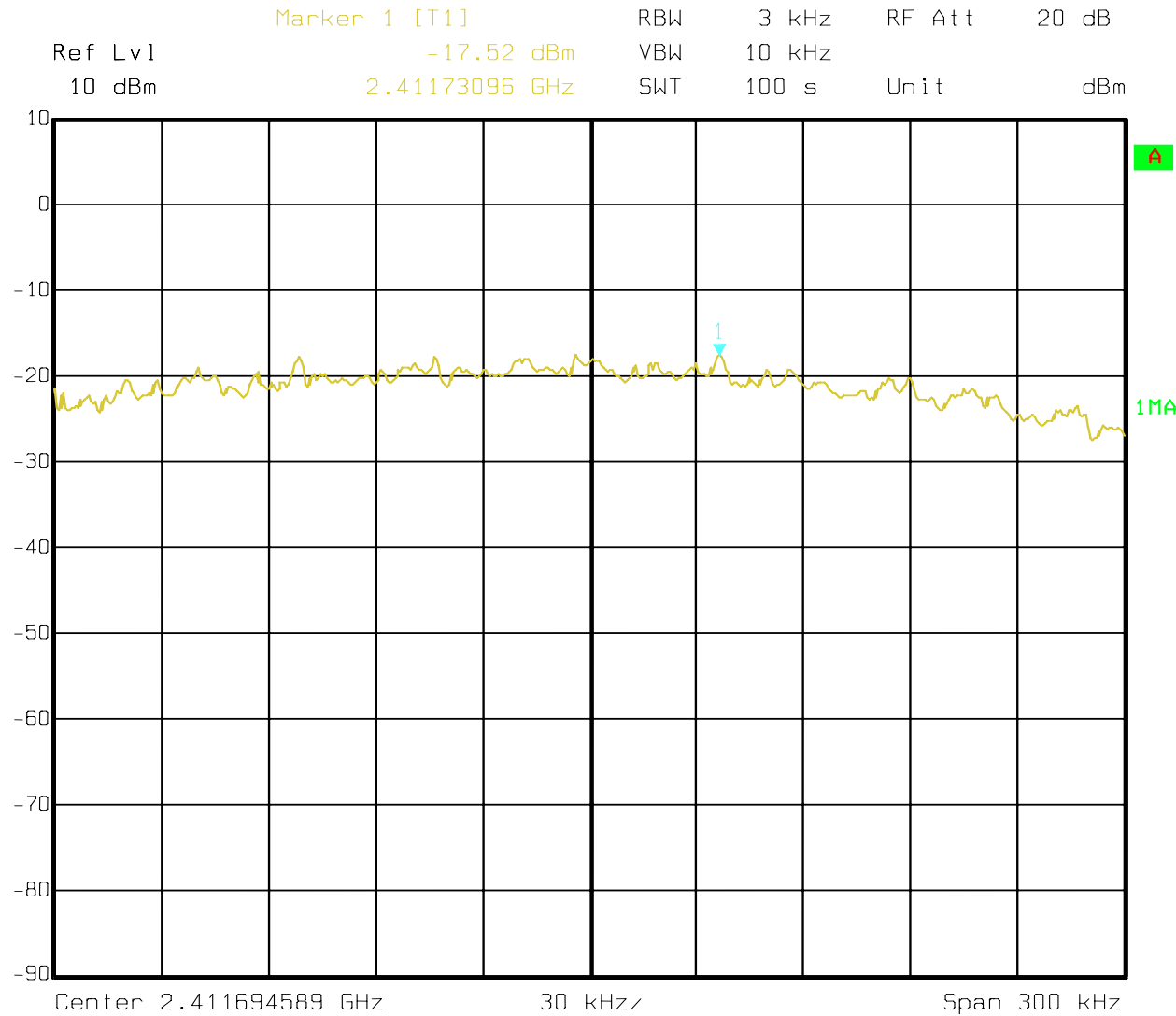
EUT		2.4G Wireless Adapter		Model		4704	
Mode		802.11g		Input Voltage		AC 110V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
1	2412		-16.33		8		Pass
6	2437		-16.98		8		Pass
11	2462		-17.84		8		Pass

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



9.5Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01



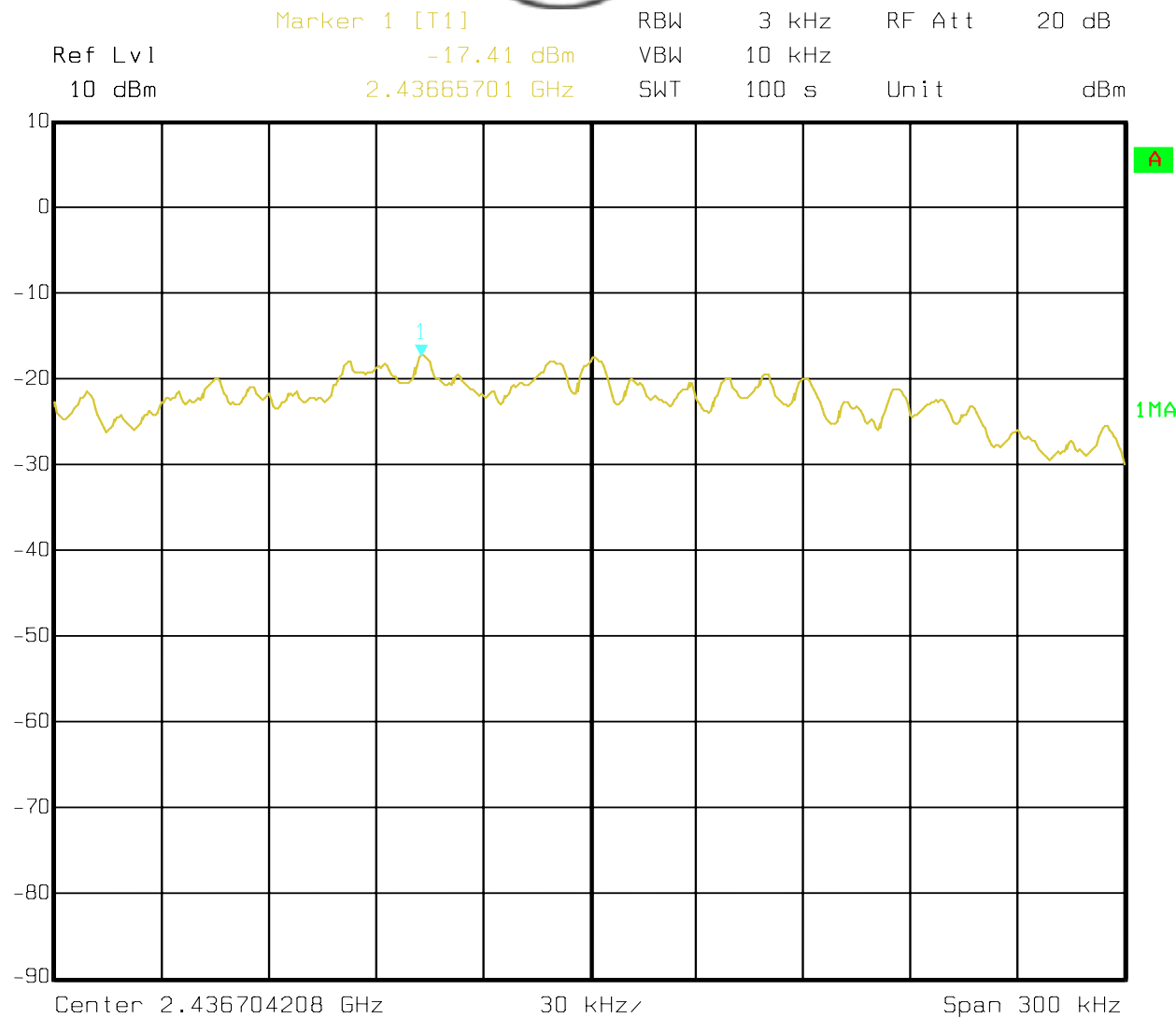
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TEST REPORT

2. 802.11g at 6Mbps at CH06



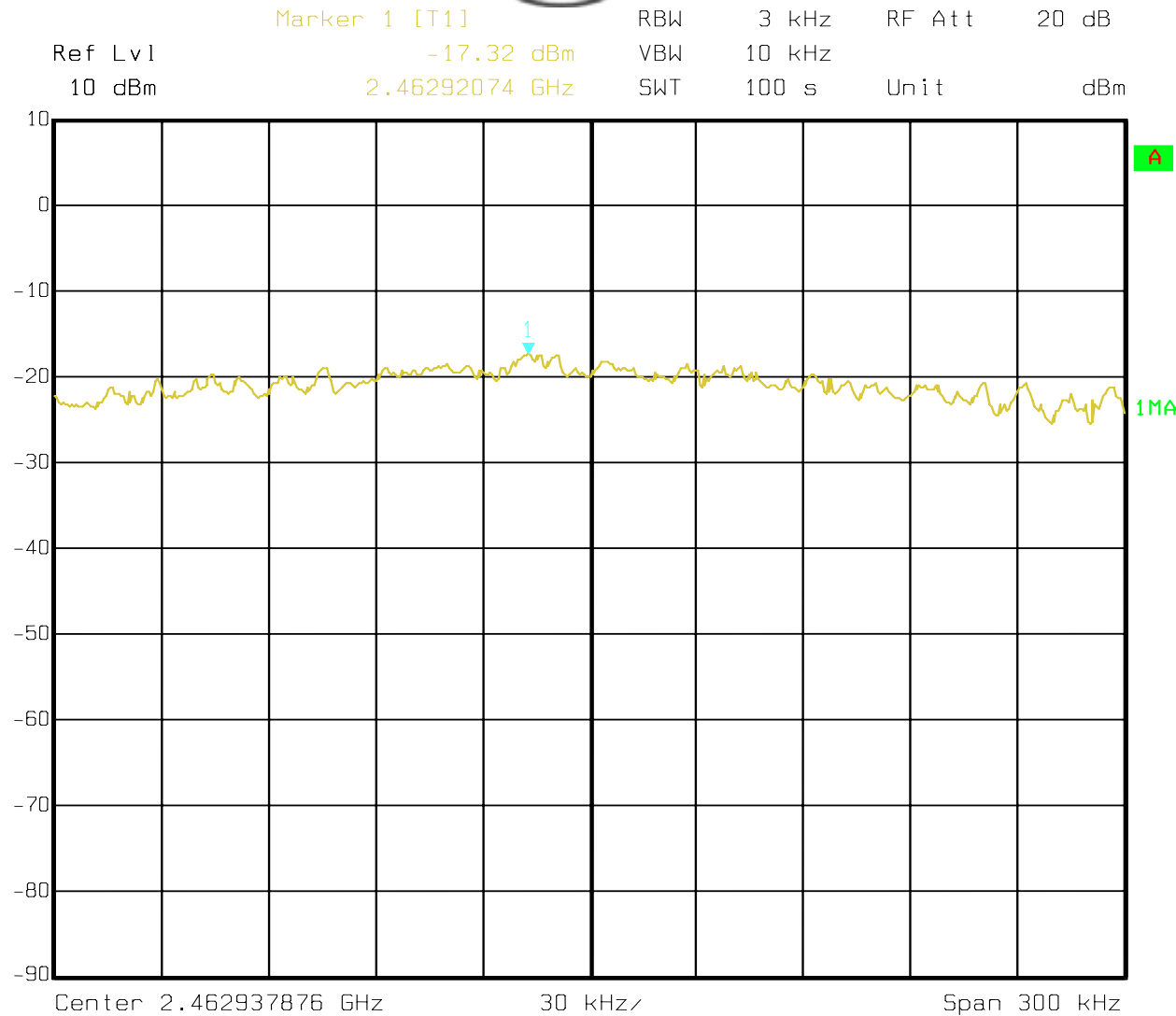
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TEST REPORT

3. 802.11g at 6Mbps of CH11



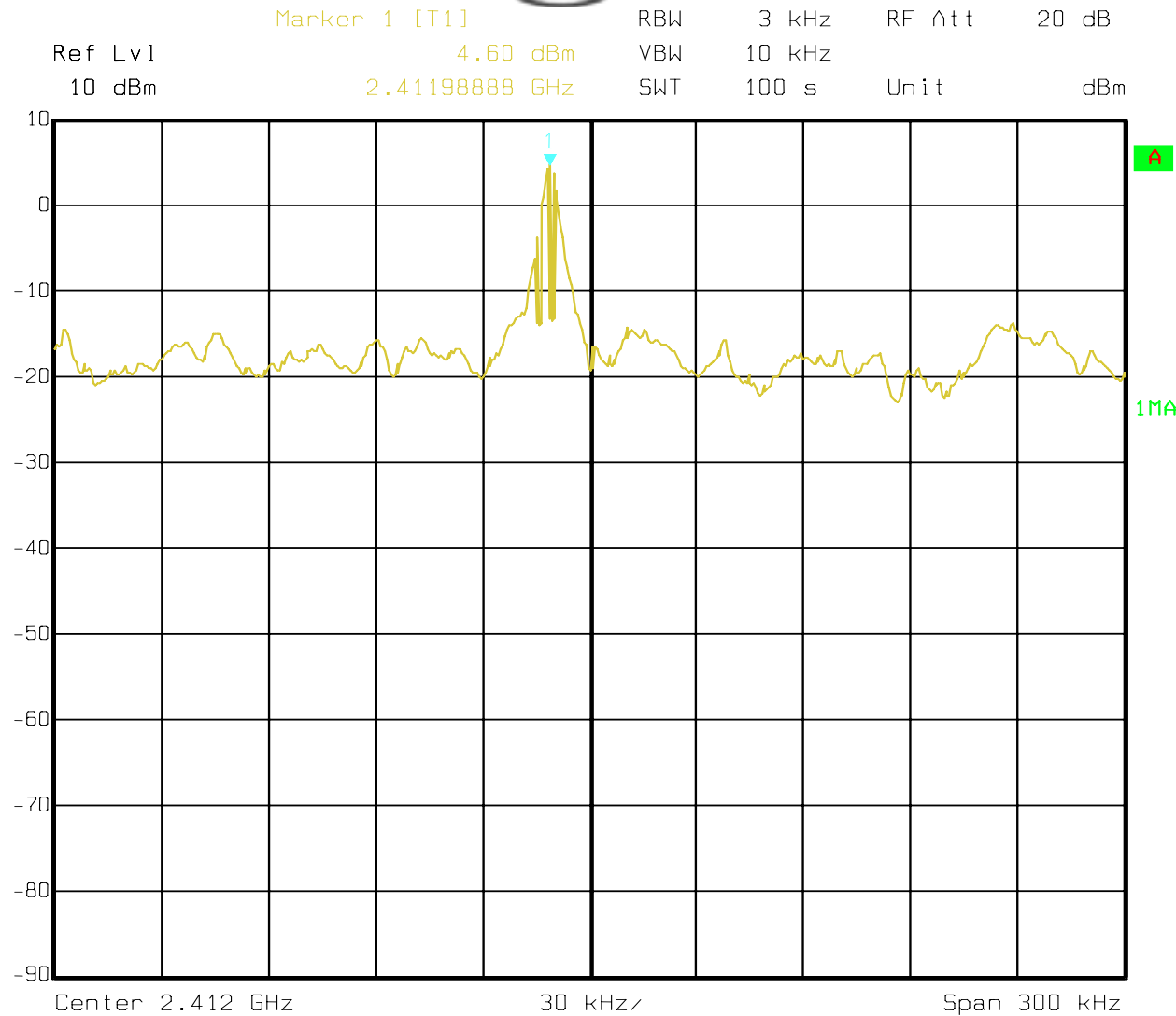
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**TEST REPORT**

4. 802.11b at 11Mbps of CH01



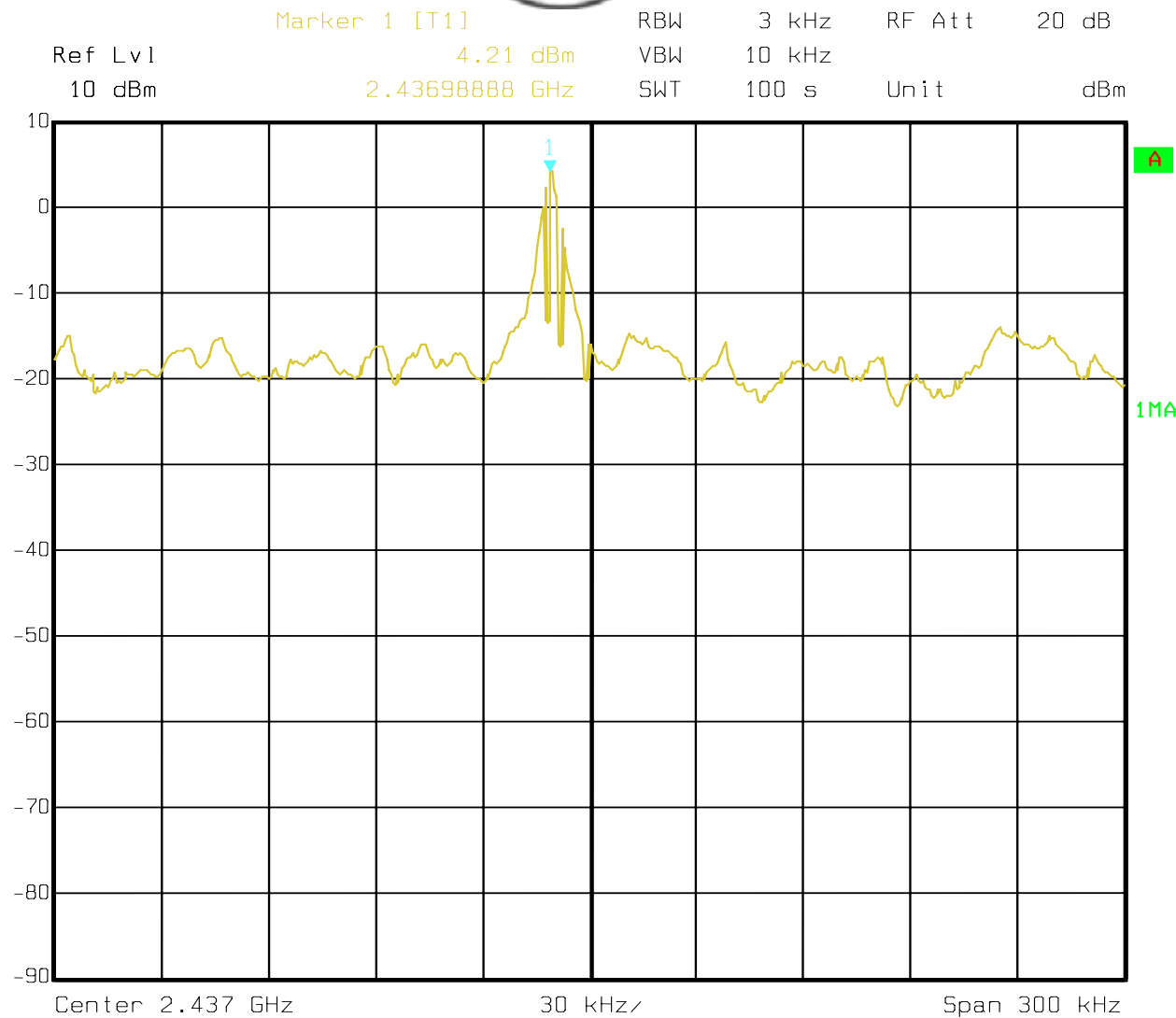
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**TEST REPORT**

5. 802.11b at 11Mbps of CH06



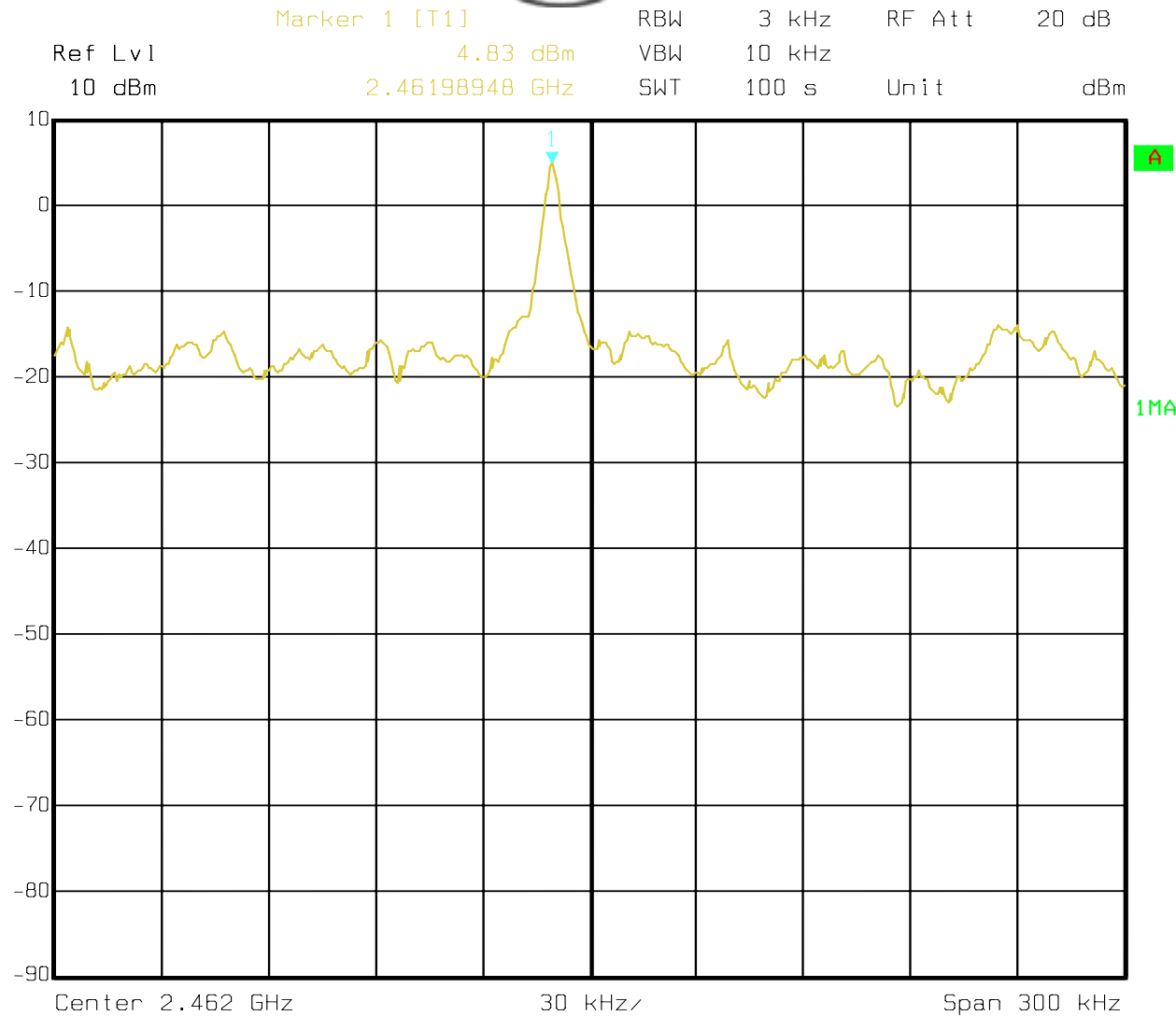
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TEST REPORT

6. 802.11b at 11Mbps of CH11



Date: 04.SEP.2009 16:51:13

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EUT		2.4G Wireless Adapter		Model		4704	
Mode		802.11n HT20		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		-6.54		8		Pass
6	2437		-7.00		8		Pass
11	2462		-7.02		8		Pass

Note: For 802.11n HT20 mode at final test to get the worst-case emission at 135Mbps for CH11, CH06 and CH01

EUT		2.4G Wireless Adapter		Model		4704	
Mode		802.11n HT40		Input Voltage		AC 110V	
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		-25.48		8		Pass
4	2437		-20.56		8		Pass
7	2462		-25.71		8		Pass

Note: For 802.11n HT40 mode at final test to get the worst-case emission at 135Mbps for CH07, CH04 and CH01

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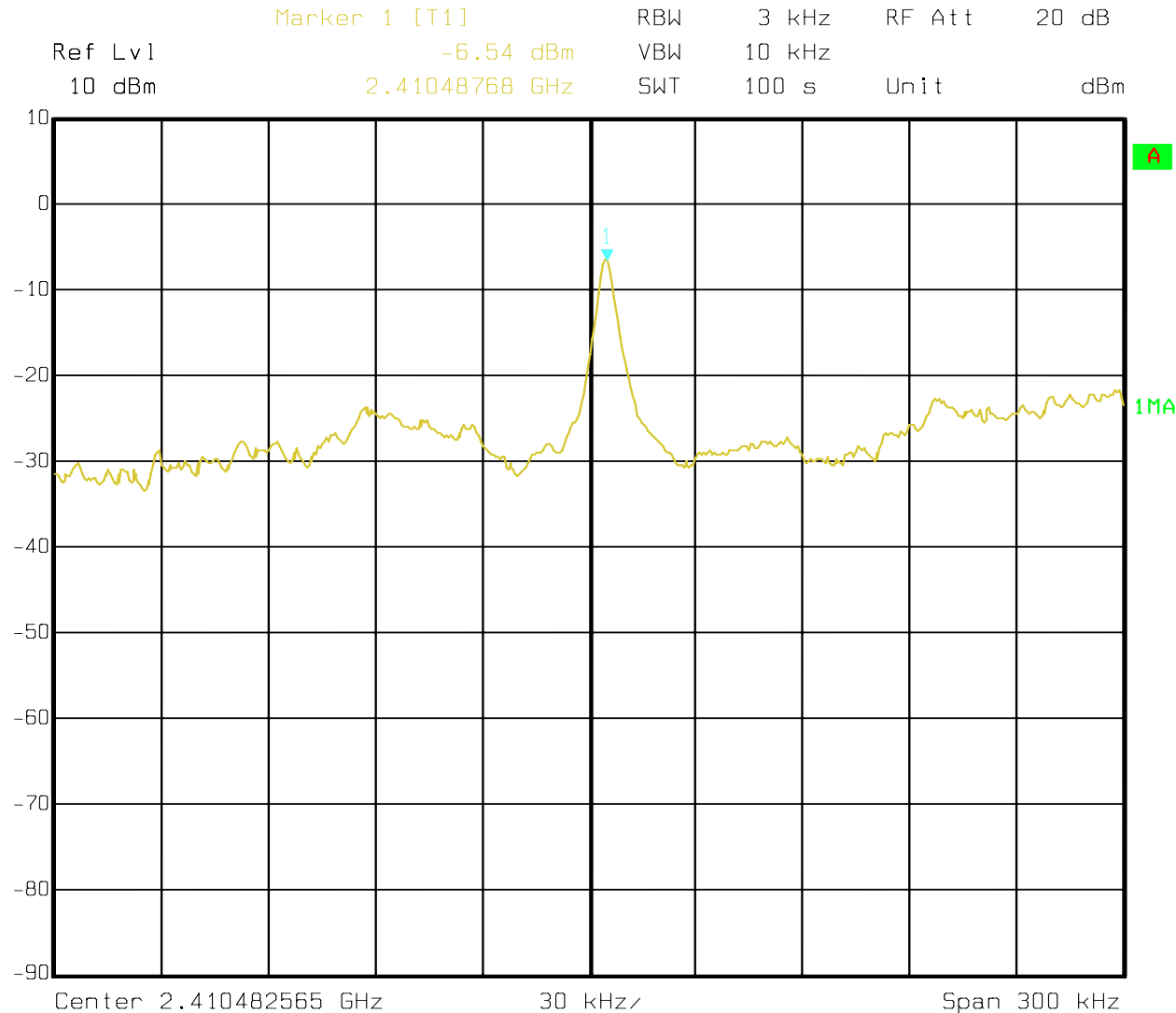
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TEST REPORT

1. 802.11n HT20 at 6Mbps of CH01



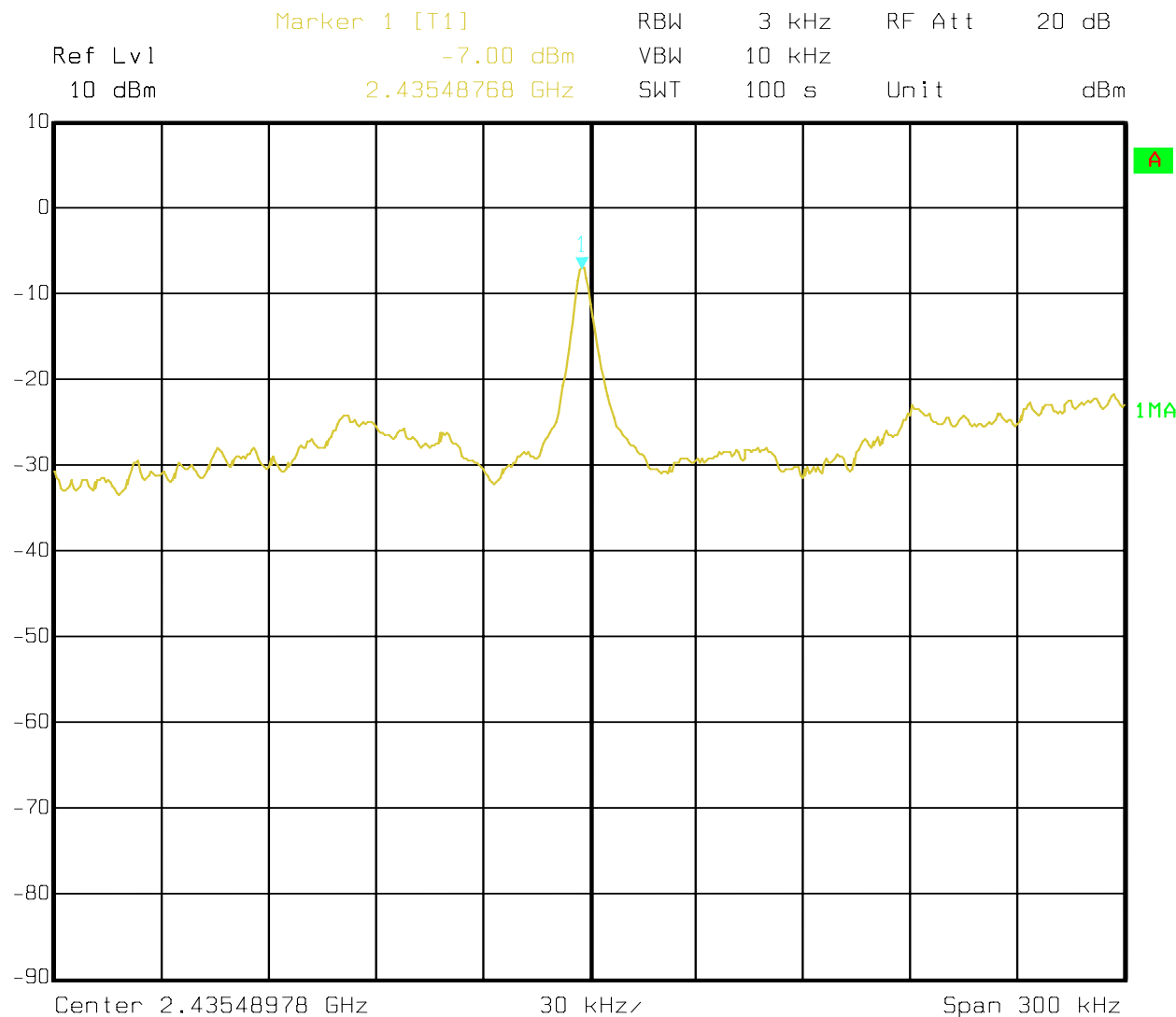
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TEST REPORT

2. 802.11n HT20 at 6Mbps of CH04



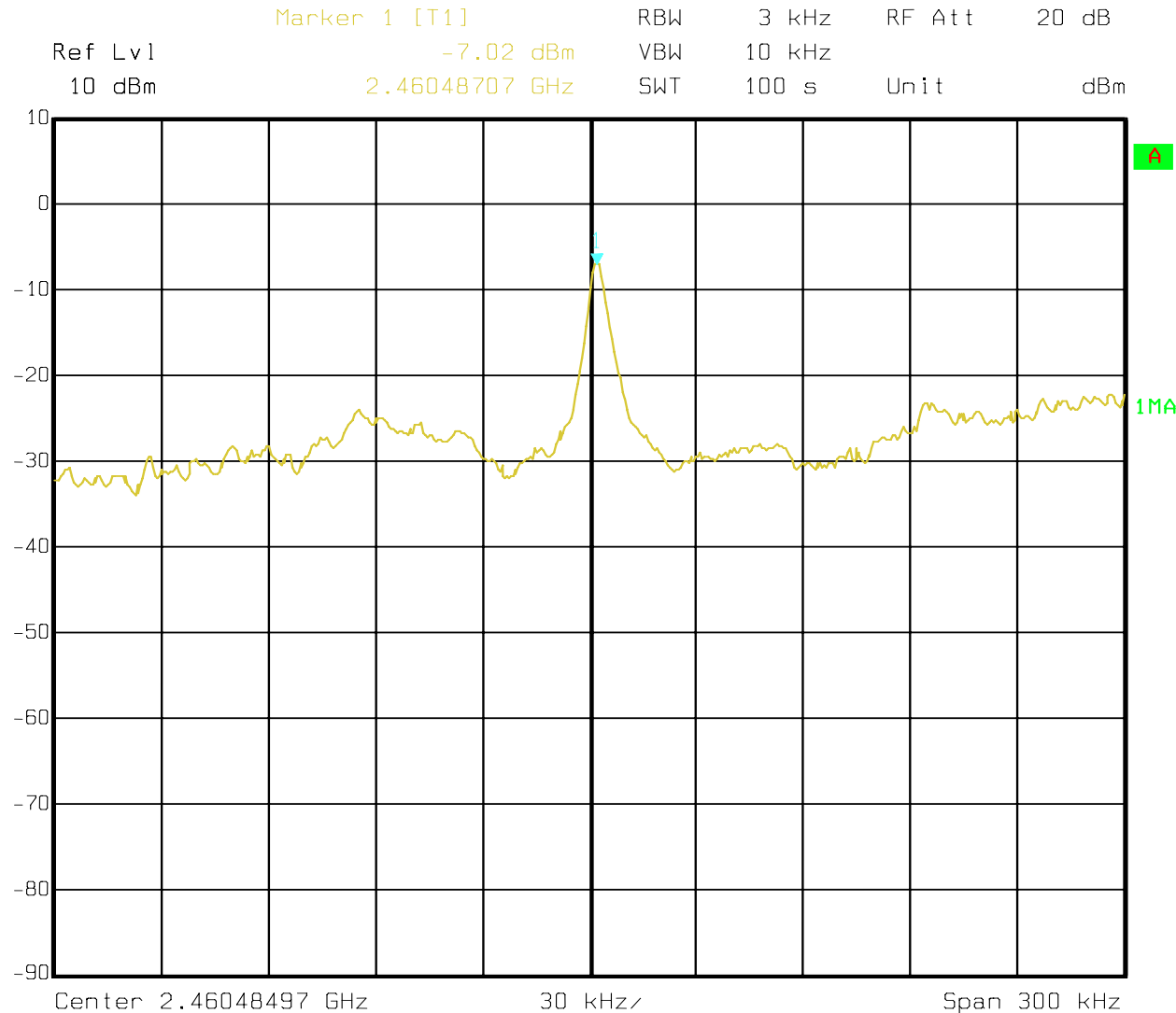
Date: 04.SEP.2009 18:10:17

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TEST REPORT

3. 802.11n HT20 at 6Mbps of CH07



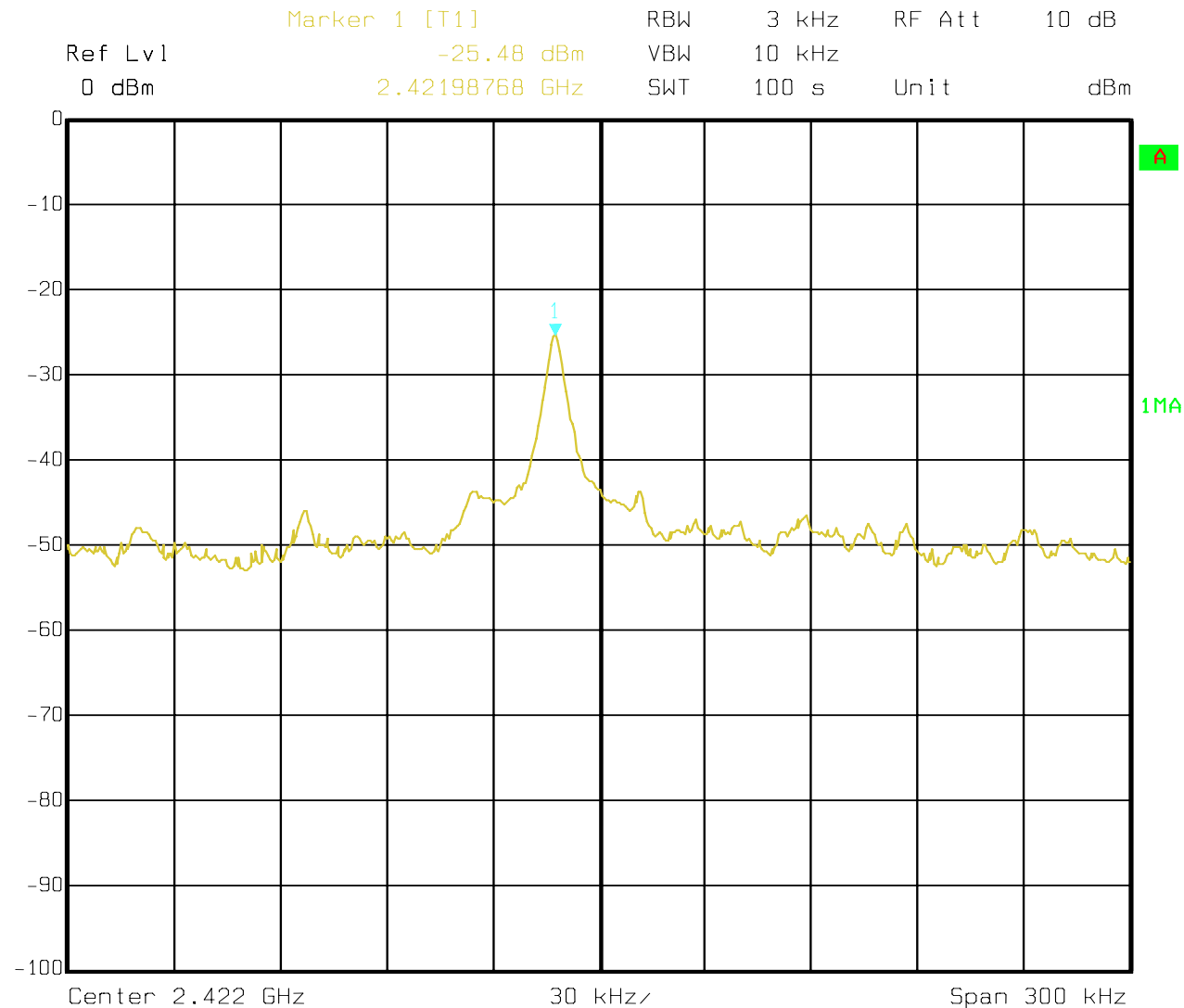
Date: 04.SEP.2009 18:23:17

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TEST REPORT

4. 802.11n HT40 at 6Mbps of CH01



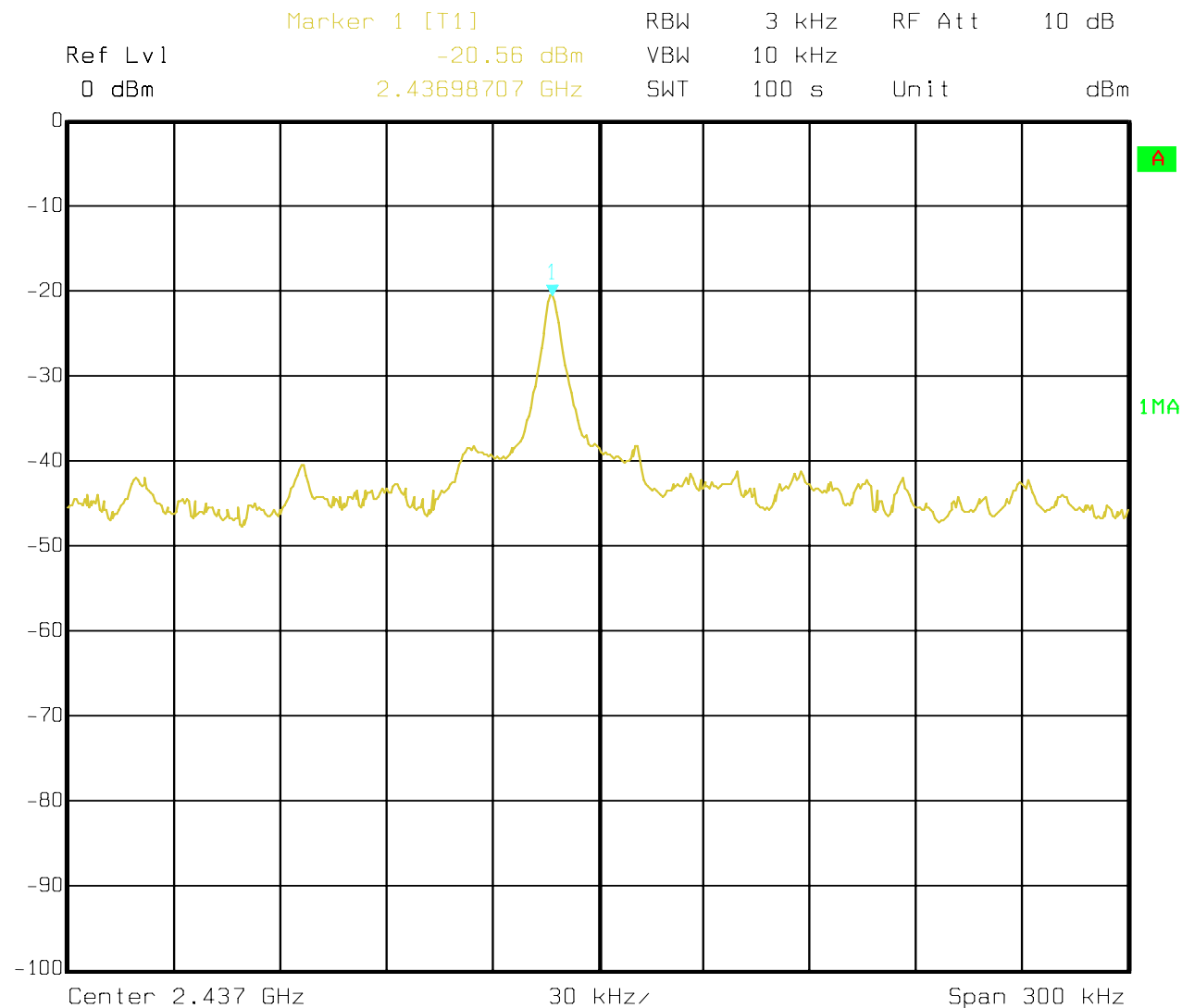
Date: 04.SEP.2009 18:34:40

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TEST REPORT

4. 802.11n HT40 at 6Mbps of CH04



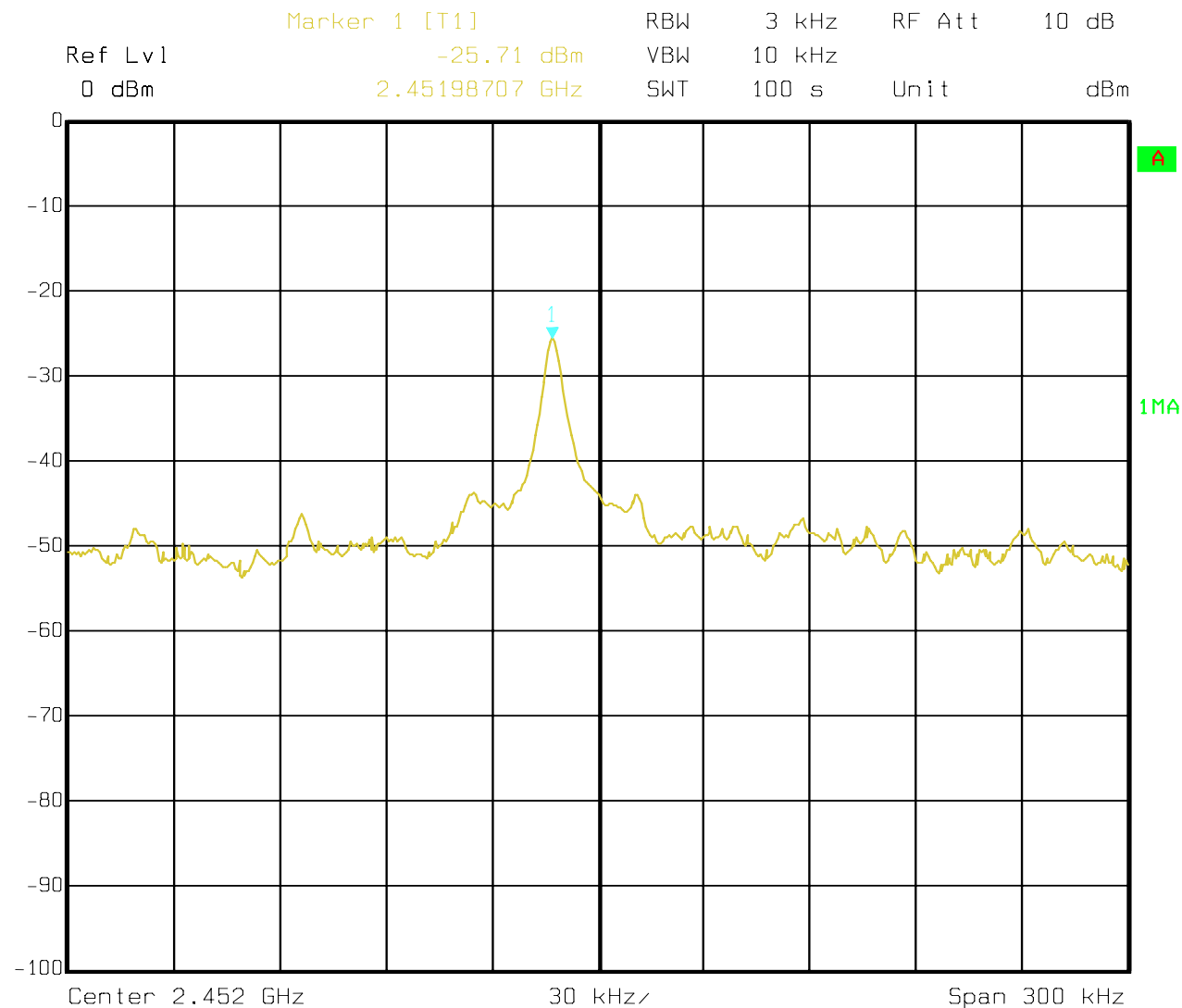
Date:            04.SEP.2009    18:55:30

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TEST REPORT

6. 802.11n HT40 at 6Mbps of CH07



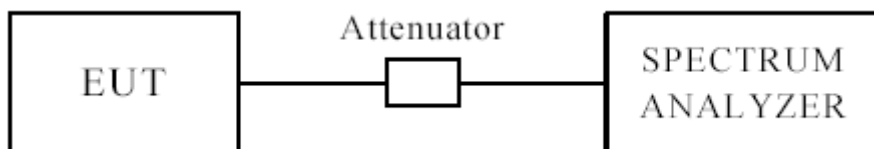
Date:            04.SEP.2009    19:11:43

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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



**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.  $\text{RBW}=\text{VBW}=1\text{MHz}$

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

### 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:	2.4G Wireless Adapter		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)	62.9(V)/59.3(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	47.0(V)/45.2(H)		54(dBμV/m)

**Test Figure:**



Date: 03.SEP.2009 17:16:31

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

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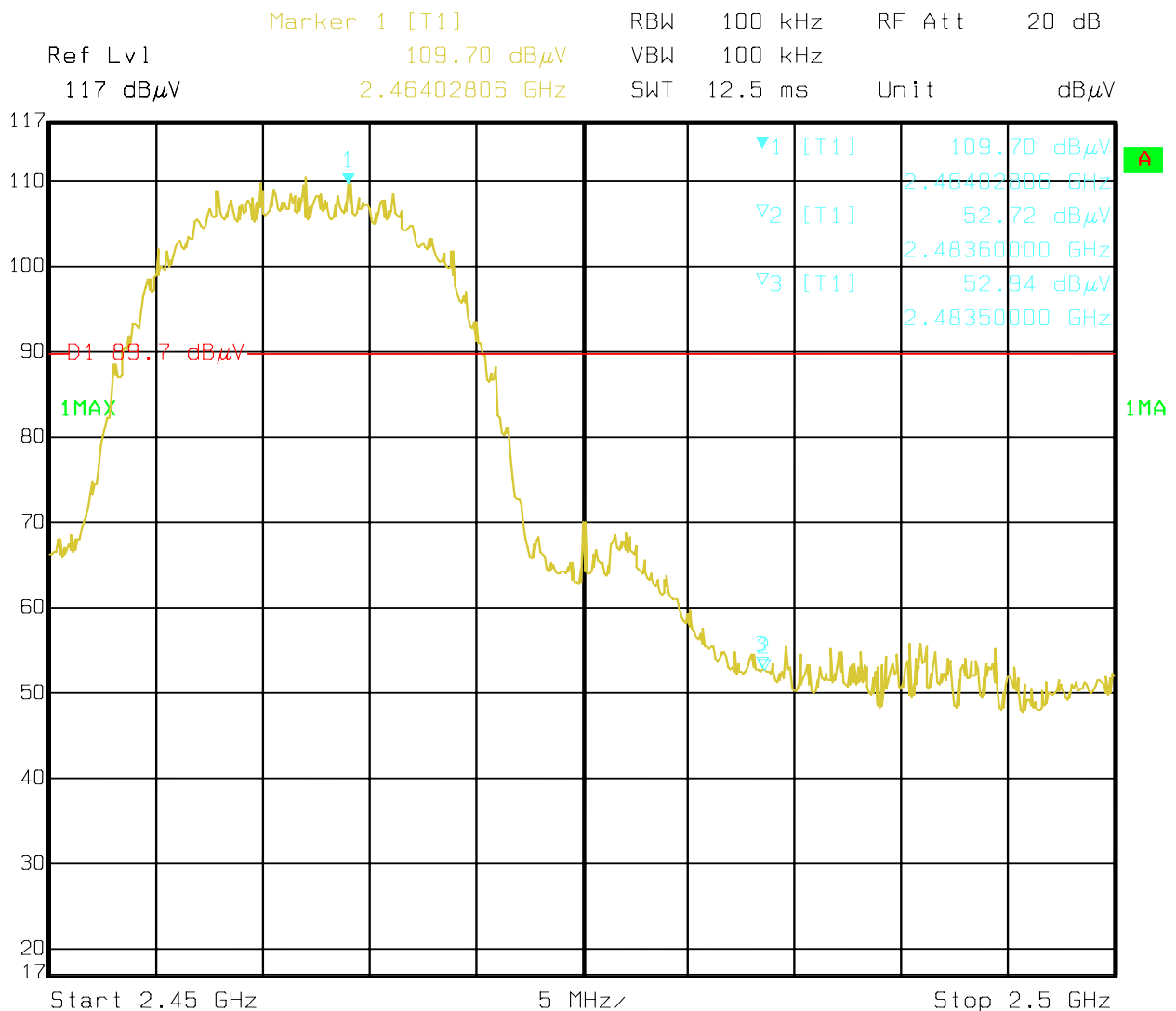
## TEST REPORT

CH11 at 1Mbps

### 10.4 Restricted band and bandedge Measurement

Product:	300M Wireless Notebook Adapter		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)	54.3(V)/50.1(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	40.6(V)/37.7(H)		54(dBμV/m)

#### Test Figure:



Date: 03.SEP.2009 17:22:46

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

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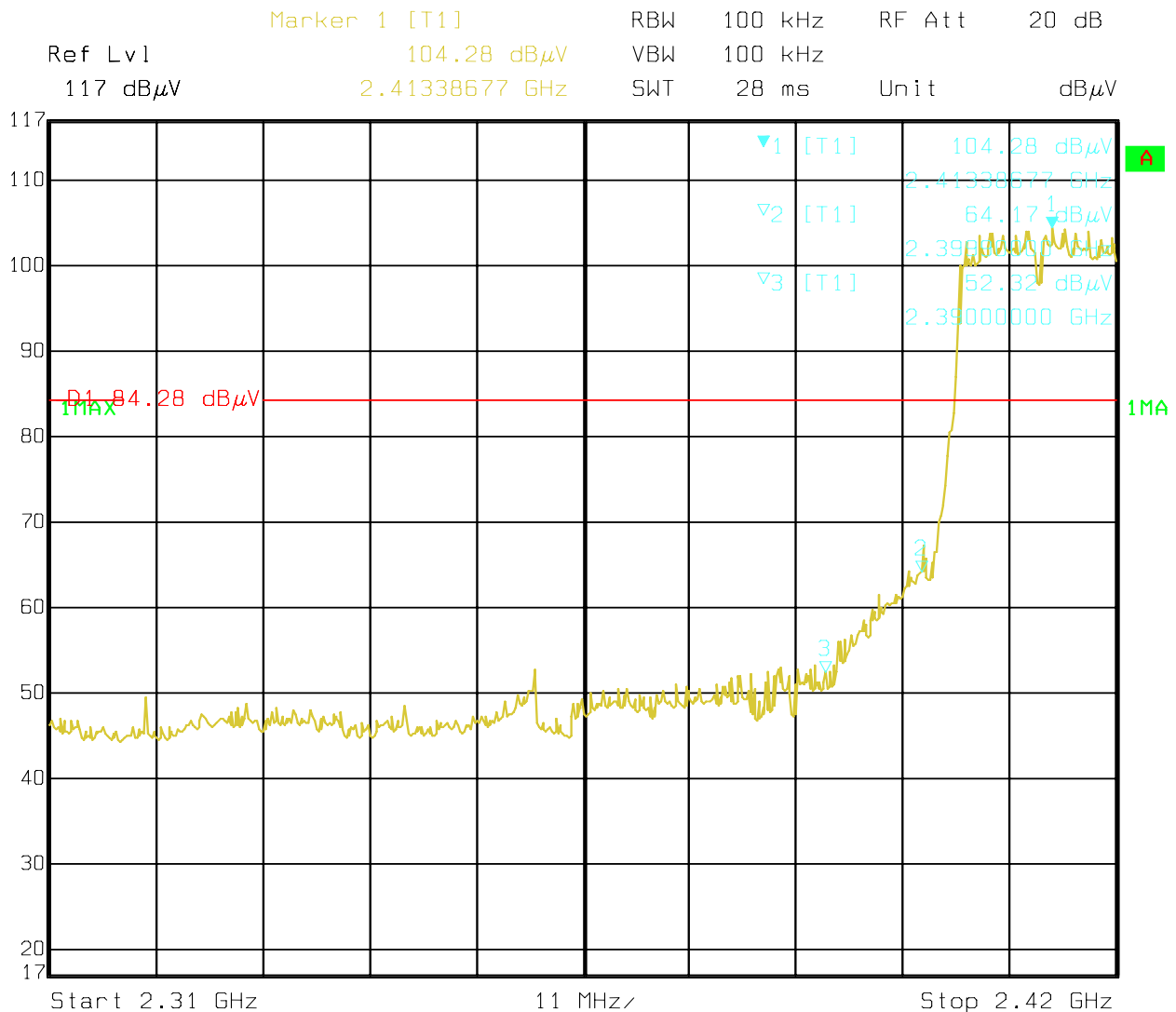
For 802.11g mode

CH01 at 6Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	2.4G Wireless Adapter		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)	57.7(V)/54.6(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	43.7(V)/41.1(H)		54(dBμV/m)

Test Figure:



Date: 03.SEP.2009 22:15:42

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

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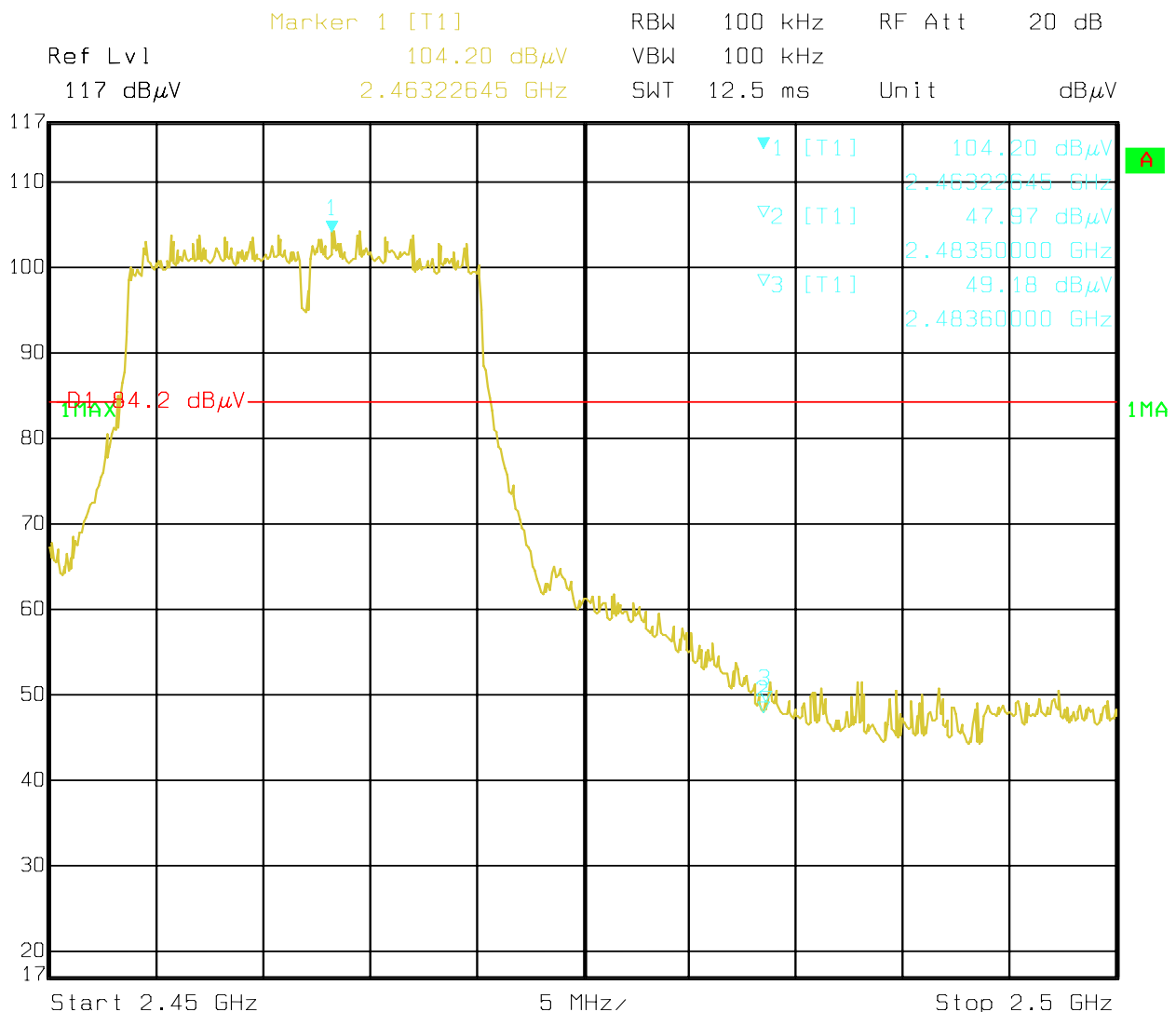
## TEST REPORT

CH11 at 6Mbps

### 10.4 Restricted band and bandedge Measurement

Product:	2.4G Wireless Adapter		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)	57.8(V)/53.5(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	43.7(V)/40.2(H)		54(dBμV/m)

### Test Figure:



Date: 03.SEP.2009 22:20:41

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

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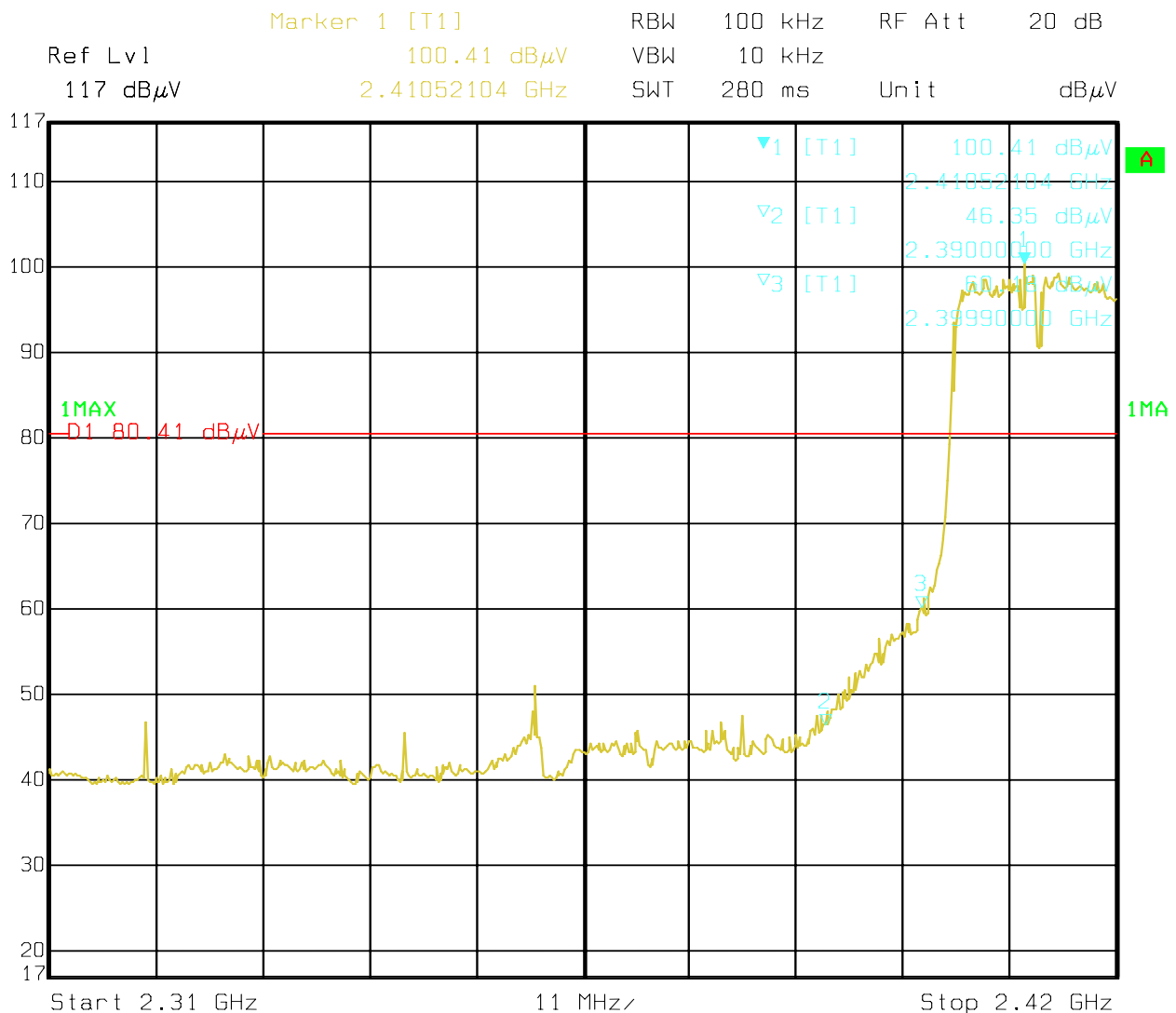


CH1 at HT20 135Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	2.4G Wireless Adapter		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)	60.0(V)/56.1(H)	Limit	74(dBμV/m)
	PK (dBμV/m)	47.4(V)/43.2(H)		54(dBμV/m)

#### Test Figure:



Date: 03.SEP.2009 22:34:59

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

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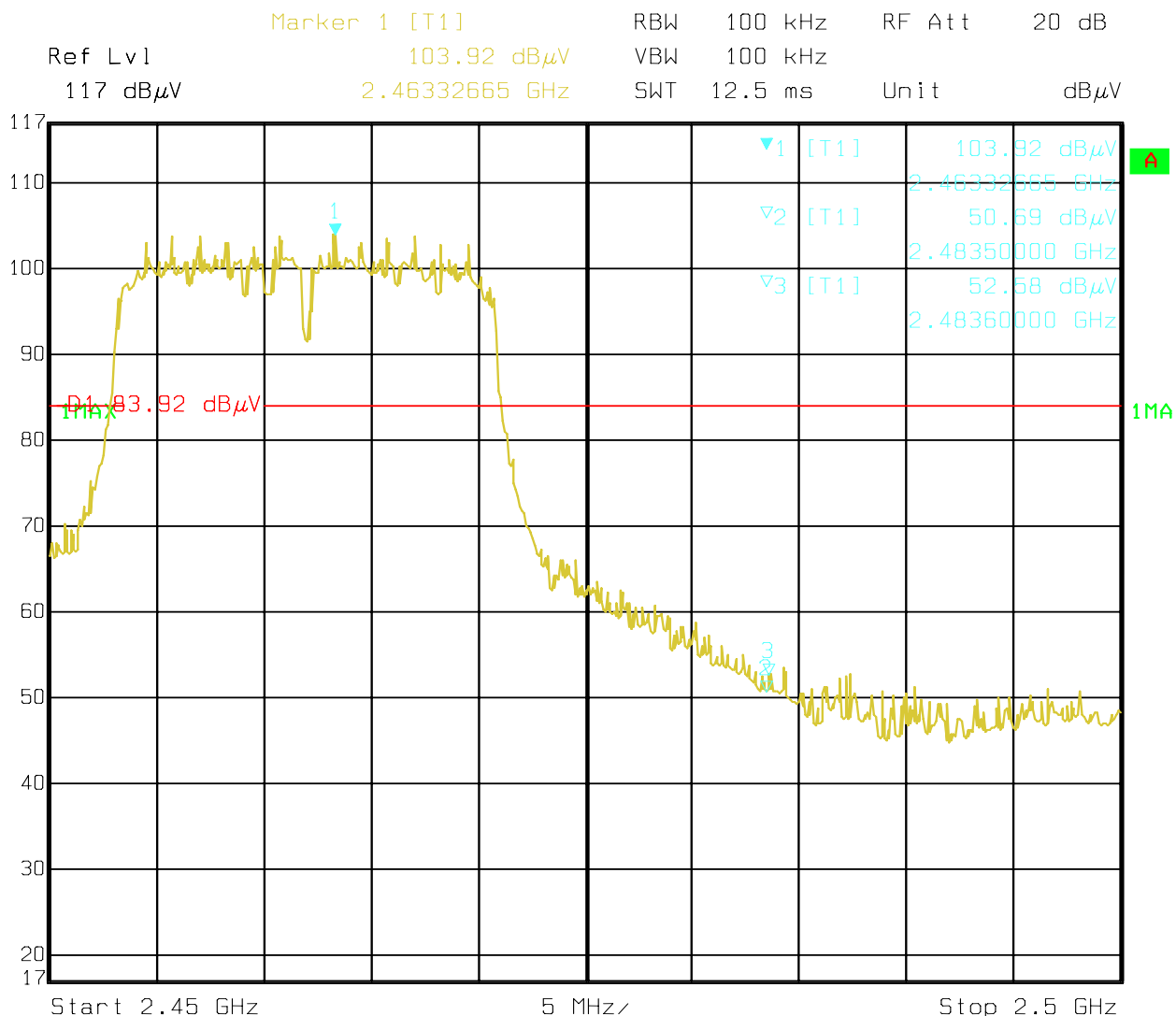


802.11n  
CH11 at HT20 6Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	2.4G Wireless Adapter		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	AC 110V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	60.6(V)56.2(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	46.9(V)/42.7(H)		54(dBμV/m)

#### Test Figure:



Date: 03.SEP.2009 22:32:02

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

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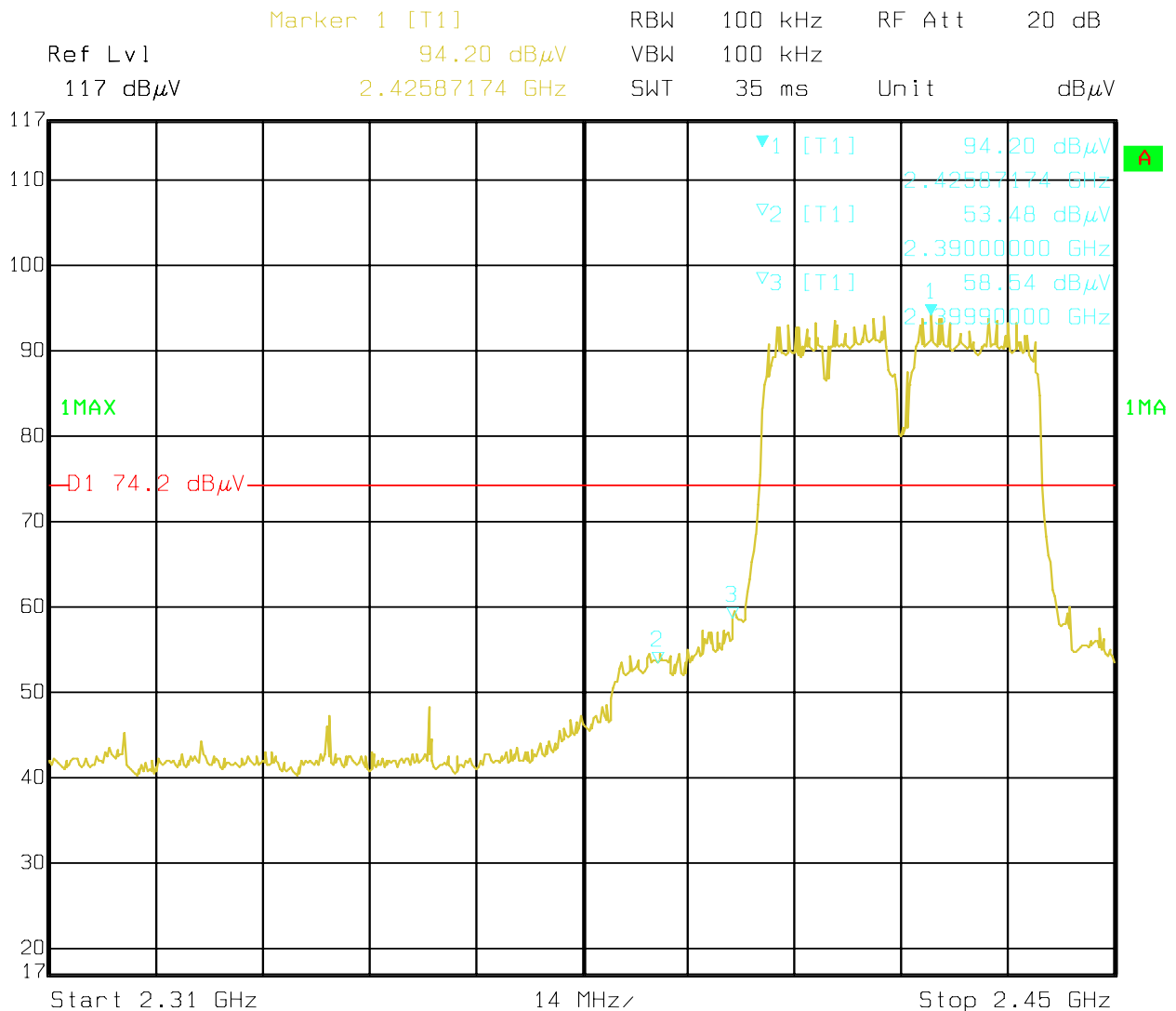


802.11n  
CH1 at HT40 135Mbps

#### 10.4 Out of Band Test Result

Product:	2.4G Wireless Adapter		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	AC 110V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	59.5(V)/54.9(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	45.3(V)/41.1(H)		54(dBμV/m)

#### Test Figure:



Date: 03.SEP.2009 22:50:38

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

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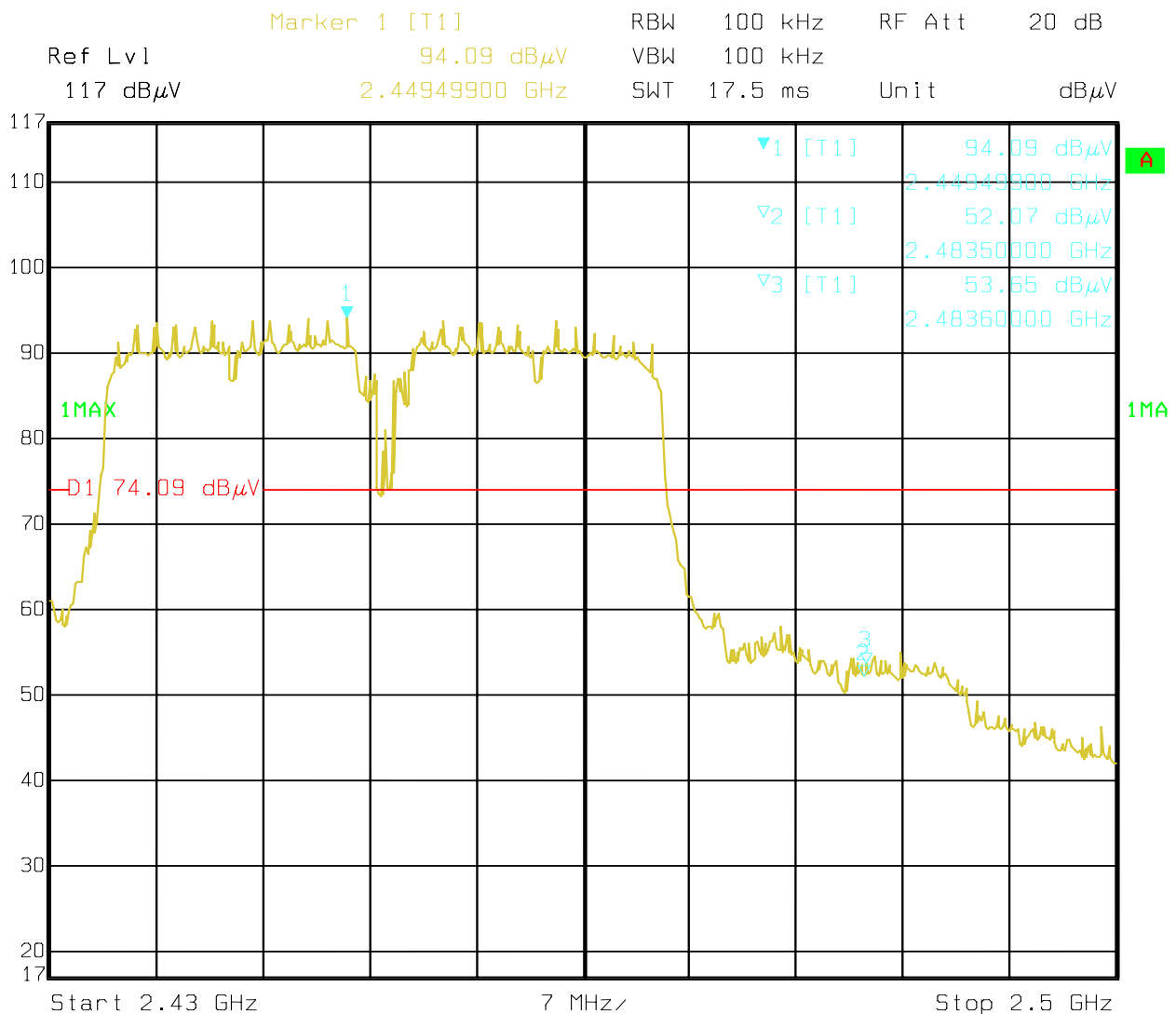


802.11n  
CH07 at HT40 6Mbps

#### 10.4 Out of Band Test Result

Product:	2.4G Wireless Adapter		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	AC 110V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	54.5(V)/50.3(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	40.3(V)/36.8(H)		54(dBμV/m)

#### Test Figure:



Date: 03.SEP.2009 22:58:11

**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**

An RF cable connected the IPX connector with the reverse polarity SMA connector, and a dipole antenna connected to the reverse polarity SMA connector. The maximum Gain of the antennas is 2.0dBi.

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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
1.585	18.87	77.090	0.0243	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
1.585	18.01	63.241	0.0199	1	Compiles

## 802.11n HT20

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
1.585	17.39	54.828	0.0173	1	Compiles

## 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
1.585	17.29	53.580	0.0169	1	Compiles

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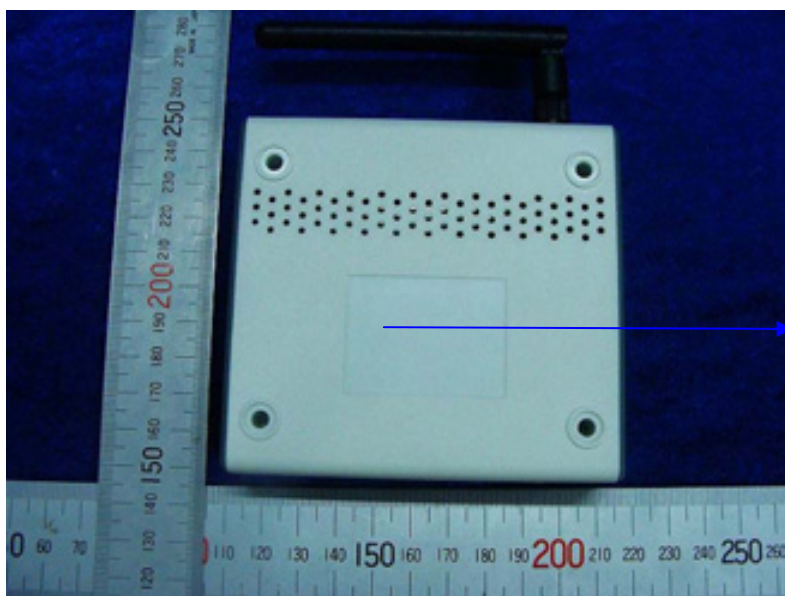
### 13.0 FCC ID Label

**FCC ID: TGQC2CE4704A3709**

**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--



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



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14.3 Photo for the EUT

Outside View



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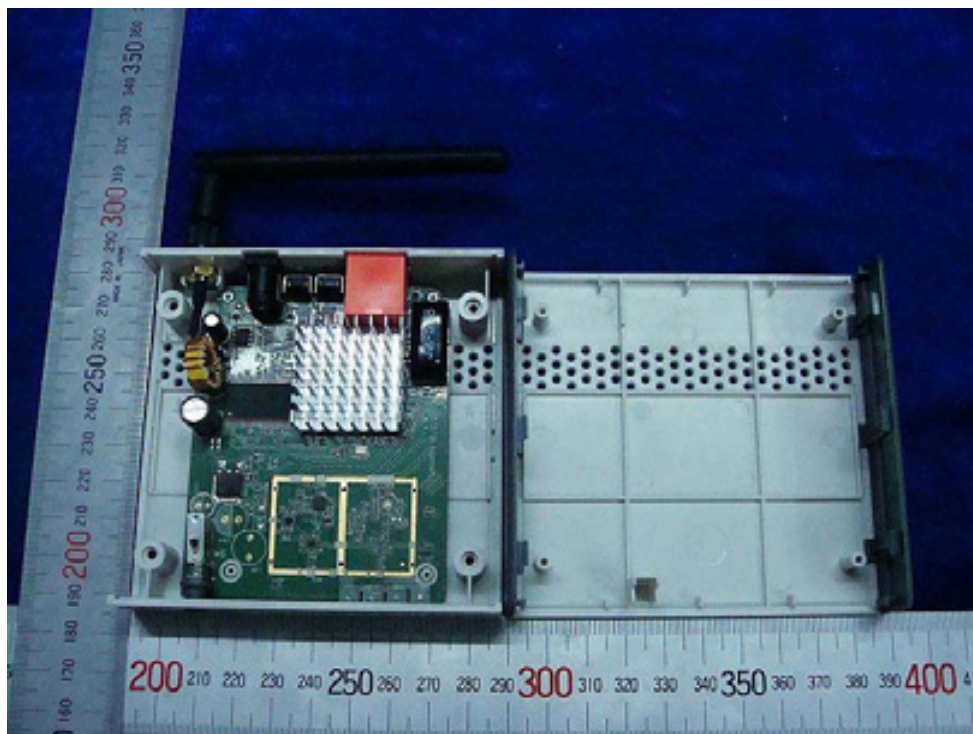


14.4 Photo for the EUT

Outside View



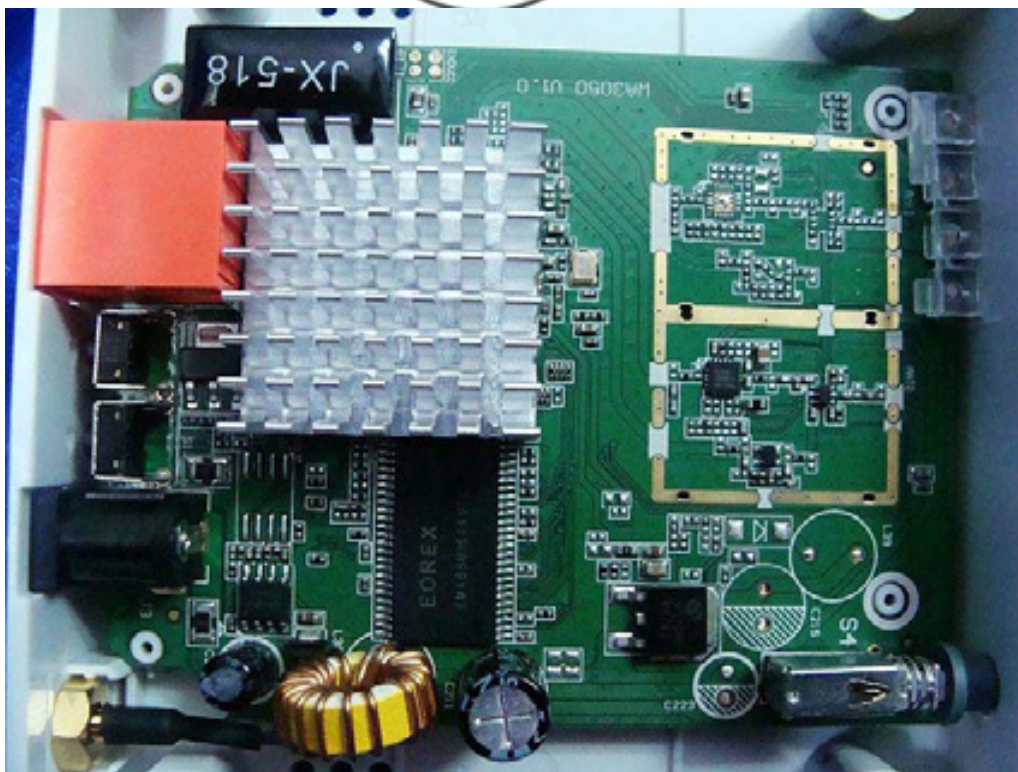
Outside View



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## **TEST REPORT**

### **Power Supply**



**End of the report**

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