

FCC CERTIFICATION
On Behalf of
Guillemot Corp S.A.

T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
Model No.: 2016

FCC ID: NAM2960696-528

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Report Number : ATE20072735
Date of Test : November 09, 2007
Date of Report : November 15, 2007

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Test Report Certification

Applicant : Guillemot Corp S.A.
Manufacturer : Ciponic Industrial (HK) Ltd.
EUT Description : T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
(A) MODEL NO.: 2016
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: 4.5V DC (“AAA” battery Type×3)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249:2007 & ANSI C63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : November 09, 2007

Prepared by : 
(Engineer)

Reviewer : 
(Quality Manager)

Approved & Authorized Signer : 
(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
Model Number	:	2016
Power Supply	:	DC 4.5V("AAA" battery Type×3)
Operate Frequency	:	2433M-2481MHz, Step Freq.:3MHz
Channel Number	:	16
Applicant	:	Guillemot Corp S.A.
Address	:	Place du Granier, P.O. Box B.P.97143, Chantepie, 35171 France
Manufacturer	:	Ciponic Industrial (HK) Ltd.
Address	:	Room 1016, 10/F., Profit Ind. Bldg., Kwai Chung, Hong Kong
Date of sample received	:	November 02, 2007
Date of Test	:	November 09, 2007

1.2. Description of Test Facility

EMC Lab	:	Listed by FCC The Registration Number is 274801
		Listed by Industry Canada The Registration Number is IC4174
		Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L0579
Name of Firm	:	Shenzhen Academy of Metrology& Quality Inspection
Site Location	:	Bldg. Metrology& Quality Inspection, Longzhu Road, Nanshan, Shenzhen, Guangdong, P.R. China

1.3. Measurement Uncertainty

Conducted emission expanded uncertainty	=	3.5dB, k=2
Radiated emission expanded uncertainty	=	4.5dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.31.2008
EMI Test Receiver	Rohde&Schwarz	ESI26	838786/013	01.24.2008
Bilog Antenna	Schwarzbeck	VULB9163	9163-194	03.31.2008
Bilog Antenna	Chase	CBL6112B	2591	01.24.2008
Horn Antenna	Rohde&Schwarz	HF906	100013	01.24.2008
Spectrum Analyzer	Anritsu	MS2651B	6200238856	03.31.2008
Pre-Amplifier	Agilent	8447D	2944A10619	03.31.2008
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100305	03.31.2008
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100310	03.31.2008

3. FUNDAMENTAL AND HARMONICS RADIATED EMISSION MEASUREMENT

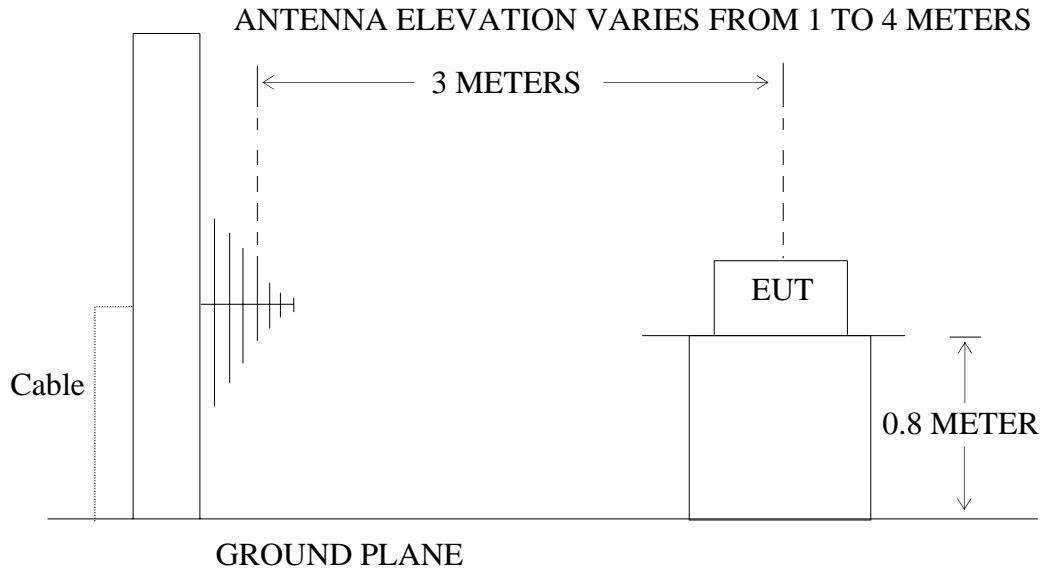
3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



(EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC)

3.1.2. Anechoic Chamber Test Setup Diagram



(EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC)

3.2. The Emission Limit

3.2.1 For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dB μ V/m and the harmonics shall not exceed 54 dB μ V/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

3.2.2 According to section 15.249(e), as shown in section 15.35(b), The peak field strength

of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

3.3. Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.3.1. T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC (EUT)

Model Number : 2016
 Serial Number : N/A
 Manufacturer : Ciponic Industrial (HK) Ltd.

3.4. Operating Condition of EUT

3.4.1. Setup the EUT and simulator as shown as Section 3.1.

3.4.2. Turn on the power of all equipment.

3.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2433MHz -2481MHz. We are select 2433MHz, 2458MHz, 2481MHz TX frequency to transmitted.

3.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESI26) is set at 1MHz.

3.6. The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	<u>November 09, 2007</u>	Temperature:	<u>23°C</u>
EUT:	<u>T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC</u>	Humidity:	<u>57%</u>
Model No.:	<u>2016</u>	Power Supply:	<u>4.5V DC (“AAA” battery Type×3)</u>
Test Mode:	<u>TX 2433MHz</u>	Test Engineer:	<u>Andy</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2433.135	76.7	78.8	-3.5	73.2	75.3	94	114	20.8	38.7	Vertical
2433.135	72.0	74.2	-3.5	68.5	70.7	94	114	25.5	43.3	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Remark “-” means that the emission level is too low to be measured.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

Date of Test:	<u>November 09, 2007</u>	Temperature:	<u>23°C</u>
EUT:	<u>T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC</u>	Humidity:	<u>57%</u>
Model No.:	<u>2016</u>	Power Supply:	<u>4.5V DC (“AAA” battery Type×3)</u>
Test Mode:	<u>TX 2458MHz</u>	Test Engineer:	<u>Andy</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2458.695	82.0	84.2	-3.4	78.6	80.8	94	114	15.4	33.2	Vertical
2458.695	79.5	81.9	-3.4	76.1	78.5	94	114	17.9	35.5	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

- Remark “- “ means that the emission level is too low to be measured.
- The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

Date of Test:	<u>November 09, 2007</u>	Temperature:	<u>23°C</u>
EUT:	<u>T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC</u>	Humidity:	<u>57%</u>
Model No.:	<u>2016</u>	Power Supply:	<u>4.5V DC (“AAA” battery Type×3)</u>
Test Mode:	<u>TX 2481MHz</u>	Test Engineer:	<u>Andy</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2481.105	76.0	78.1	-3.3	72.7	74.8	94	114	21.3	39.2	Vertical
2481.105	74.6	76.7	-3.3	71.3	73.4	94	114	22.7	40.6	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

- Remark “- “ means that the emission level is too low to be measured.
- The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

4. RADIATED EMISSION FOR FCC PART 15 SECTION 15.249(D)

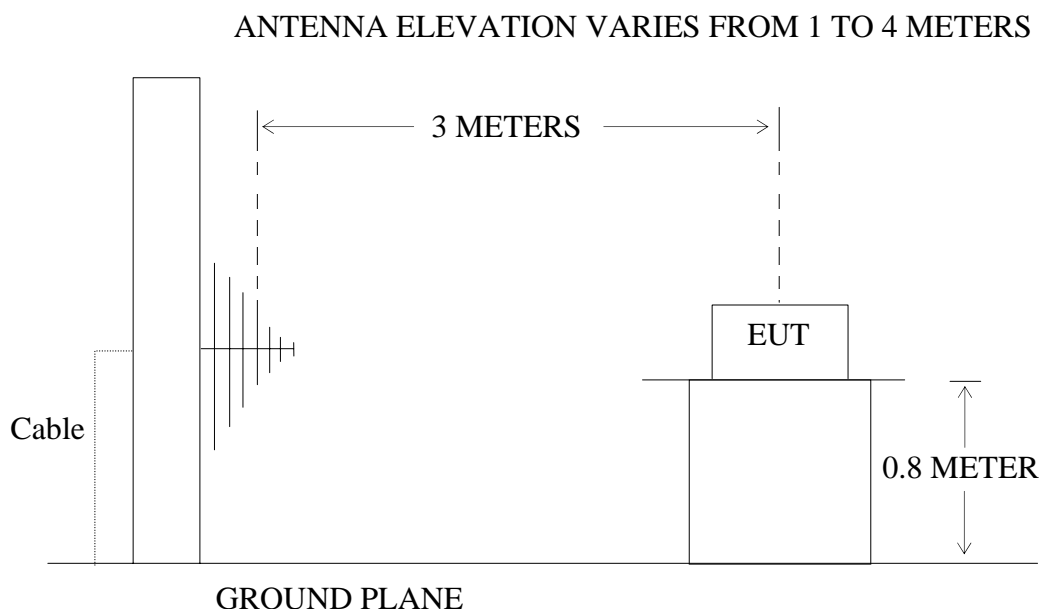
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC)

4.1.2. Anechoic Chamber Test Setup Diagram



(EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC)

4.2. The Emission Limit For Section 15.249(d)

4.2.1 Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit,		The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)	
30 - 88	100	40	

88 - 216	150	43.5	Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
216 - 960	200	46	
Above 960	500	54	

4.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC (EUT)

Model Number : 2016
 Serial Number : N/A
 Manufacturer : Ciponic Industrial (HK) Ltd.

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2433MHz -2481MHz. We are select 2433MHz, 2458MHz, 2481MHz TX frequency to transmitted.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESI26) is set at 120KHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

4.6. The Emission Measurement Result

PASS.

Date of Test:	<u>November 09, 2007</u>	Temperature:	<u>23°C</u>
EUT:	<u>T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC</u>	Humidity:	<u>57%</u>
Model No.:	<u>2016</u>	Power Supply:	<u>4.5V DC (“AAA” battery Type×3)</u>
Test Mode:	<u>TX 2433MHz</u>	Test Engineer:	<u>Andy</u>

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Remark “- “ means that the emission level is too low to be measured.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. All the scanning waveforms are attached in Appendix I.

Date of Test: November 09, 2007 Temperature: 23°C
 EUT: T-Mini Wireless 3 in 1 Controller
For PS2, PS3&PC Humidity: 57%
 Model No.: 2016 Power Supply: 4.5V DC (“AAA” battery
Type×3)
 Test Mode: TX 2458MHz Test Engineer: Andy

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Remark “- “ means that the emission level is too low to be measured.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. All the scanning waveforms are attached in Appendix I.

Date of Test: November 09, 2007 Temperature: 23°C
 EUT: T-Mini Wireless 3 in 1 Controller
For PS2, PS3&PC Humidity: 57%
 Model No.: 2016 Power Supply: 4.5V DC (“AAA” battery
Type×3)
 Test Mode: TX 2481MHz Test Engineer: Andy

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Remark “- “ means that the emission level is too low to be measured.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. All the scanning waveforms are attached in Appendix I.

5. BAND EDGES

5.1. The Requirement

5.1.1. Band Edge from 2400MHz to 2483.5MHz. Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

5.2. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.2.1. T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC (EUT)

Model Number : 2016
 Serial Number : N/A
 Manufacturer : Ciponic Industrial (HK) Ltd.

5.3. Operating Condition of EUT

5.3.1. Setup the EUT and simulator as shown as Section 4.1.

5.3.2. Turn on the power of all equipment.

5.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2433MHz -2481MHz. We are select 2433MHz, 2481MHz TX frequency to transmitted.

5.4. Test Procedure

5.4.1. Measure the fundamental amplitude appearing on spectral display and set it as a reference level. measure the lower band edge amplitude. Get the delta amplitude and edge frequency.

5.4.2. Repeat above procedures , Measure the fundamental amplitude appearing on spectral display and set it as a reference level. measure the upper band edge amplitude. Get the delta amplitude and edge frequency.

5.5. The Measurement Result

Pass

5.5.1 Lower band edge: Emission radiated outside of the lower band edge are 52.93 dB below the level of 2433MHz fundamental.

5.5.2 Upper band edge: Emission radiated outside of the upper band edge are 54.42 dB below the level of 2433MHz fundamental.

5.5.3 Lower band edge: Emission radiated outside of the lower band edge are 53.14 dB below the level of 2481MHz fundamental.

5.5.4 Upper band edge: Emission radiated outside of the upper band edge are 46.68 dB below the level of 2481MHz fundamental.

The maximum field strength of upper band edge emission for 2481MHz fundamental:

The emission of carrier power strength (dB μ V/m)	The maximum field strength in restrict band (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
74.8	28.2	74	45.8	Peak
72.7	26.1	54	27.9	Average

comply with the general radiated emission limits in Section 15.209.
All the spectral waveforms are attached in Appendix I.

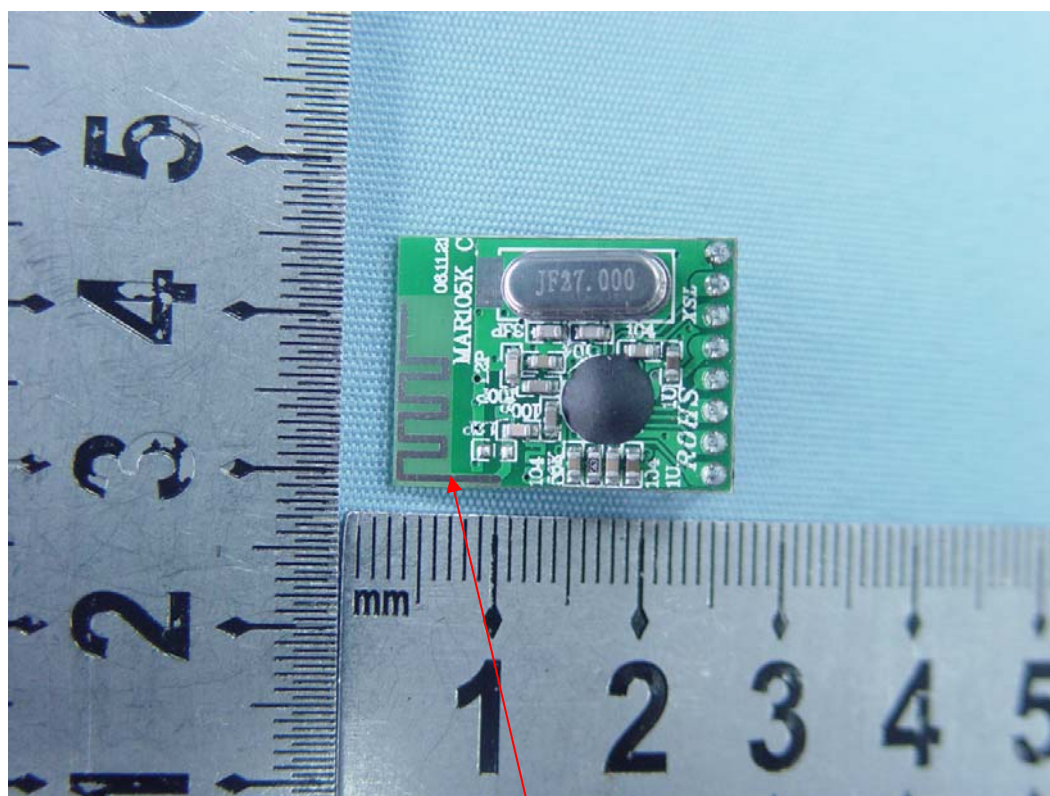
6. ANTENNA REQUIREMENT

6.1. The Requirement

7.1.1. According to 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.

6.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.



Antenna

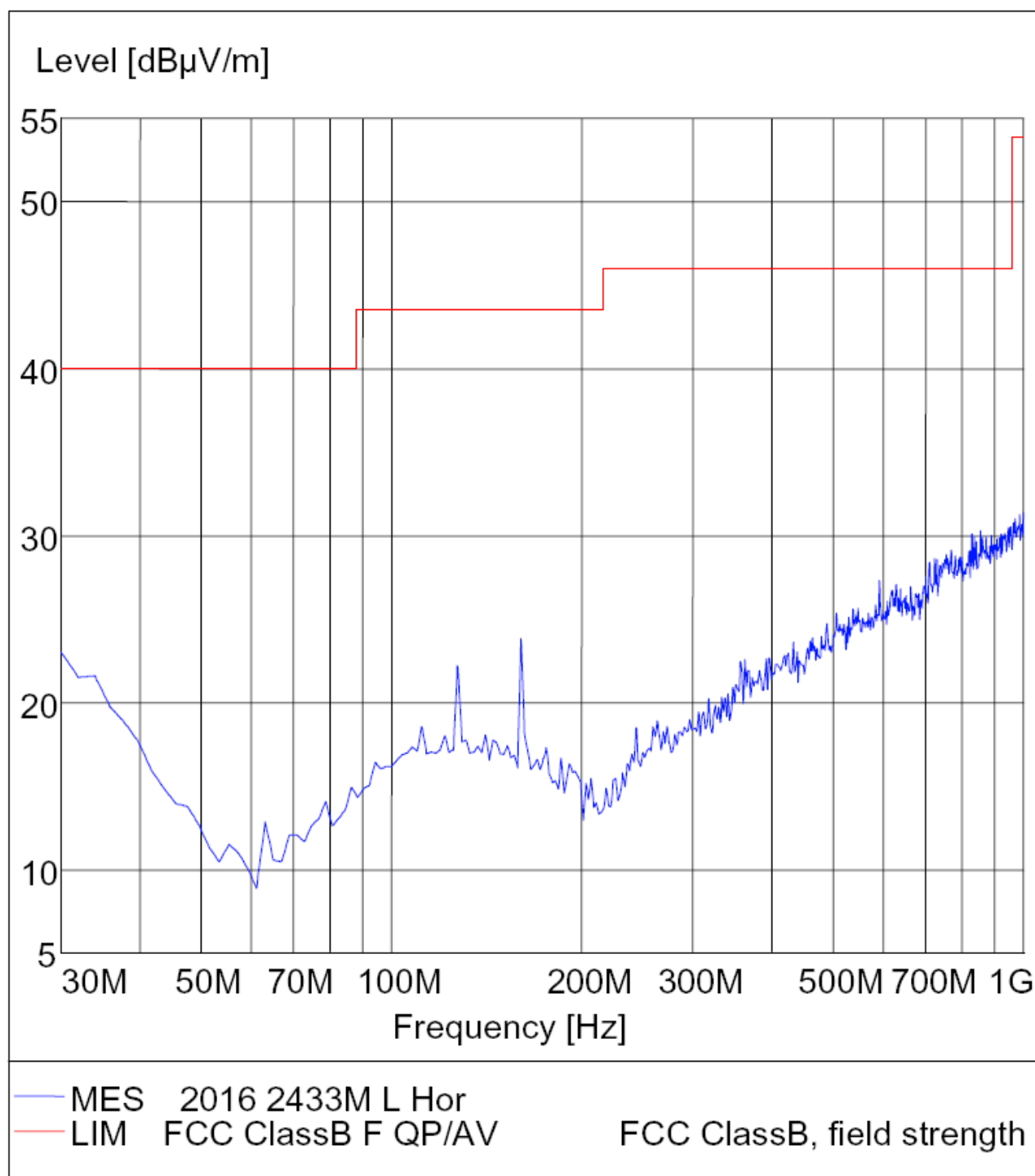
APPENDIX I (Test Curves)

Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2433MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

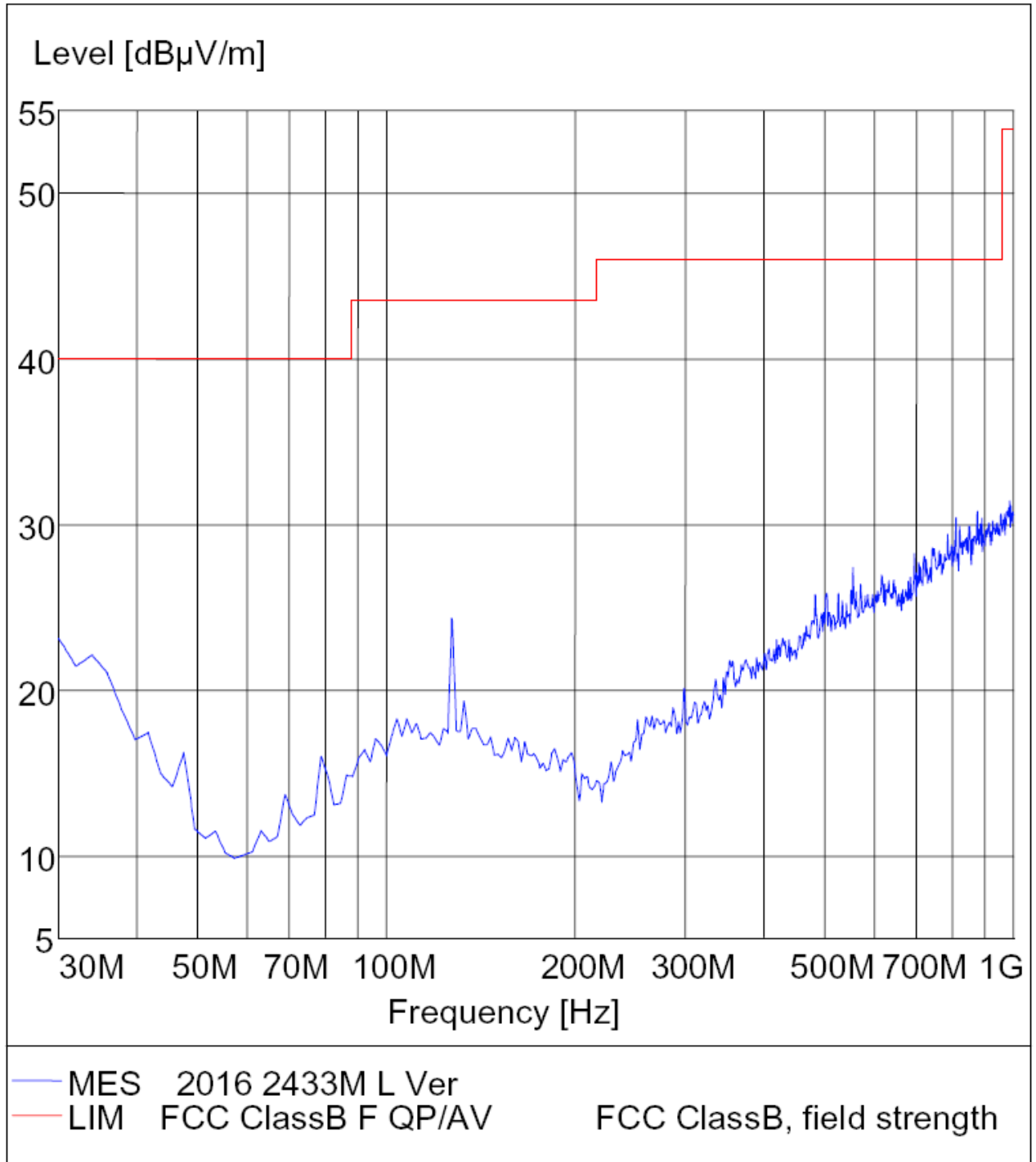


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
Manufacturer: Ciponic Industrial (HK) Ltd.
Operating Condition: TX 2433MHz
Test Site: ATC EMC Lab.SAC
Status: Andy
Test Specification: Vertical
Comment: DC 4.5V

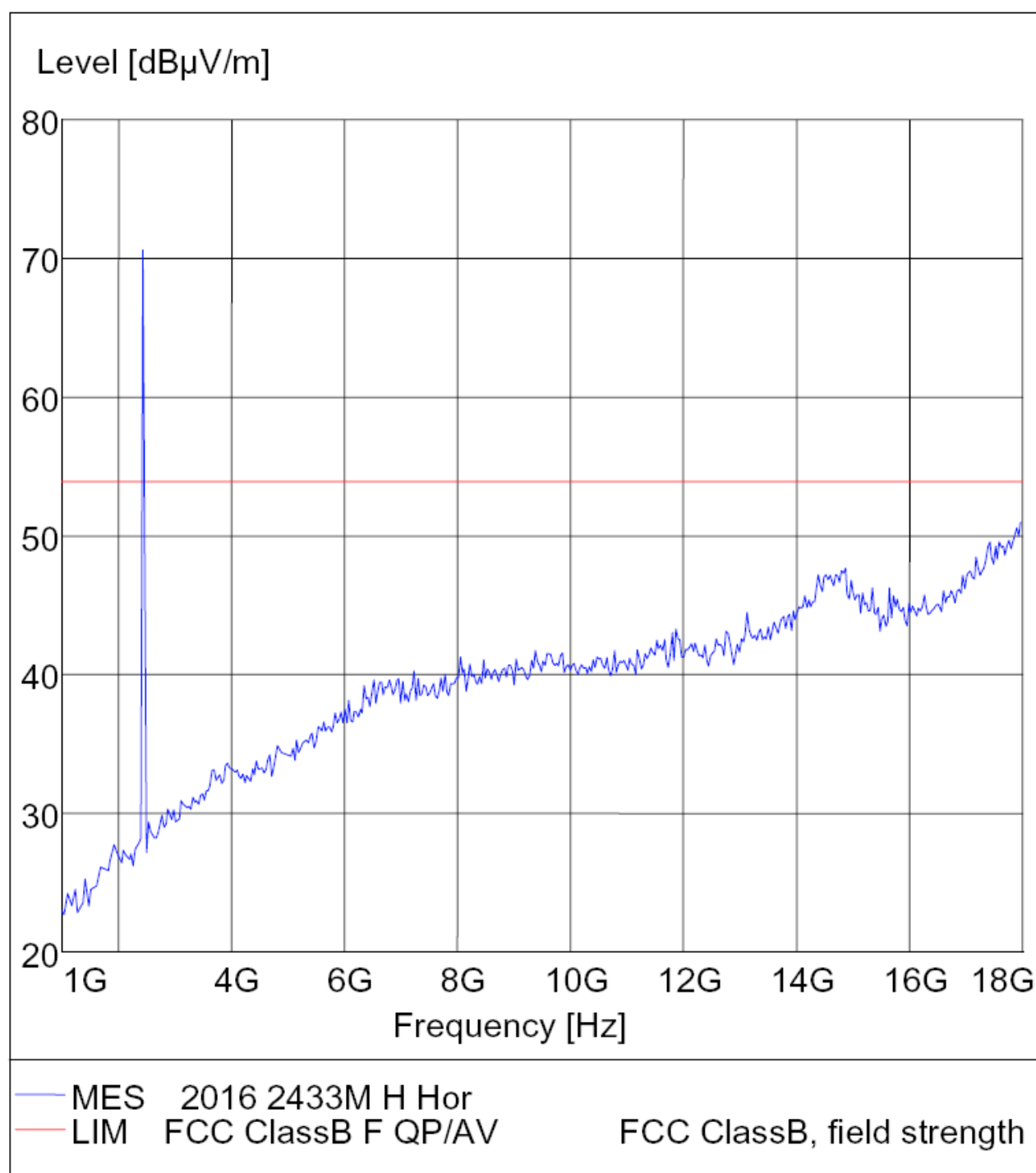
M/N: 2016



Radiated Disturbance**FCC Part 15**

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2433MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

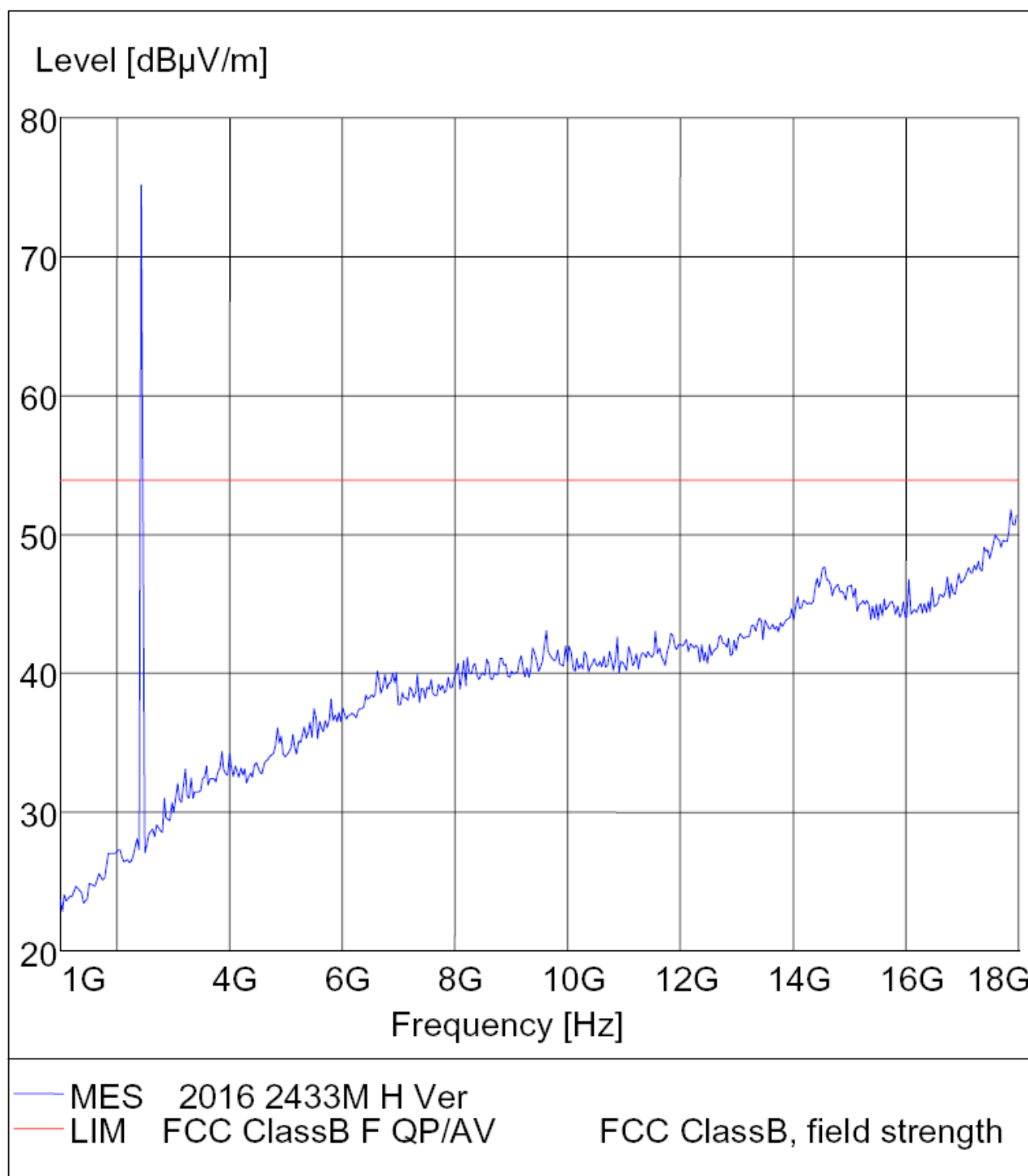


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2433MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

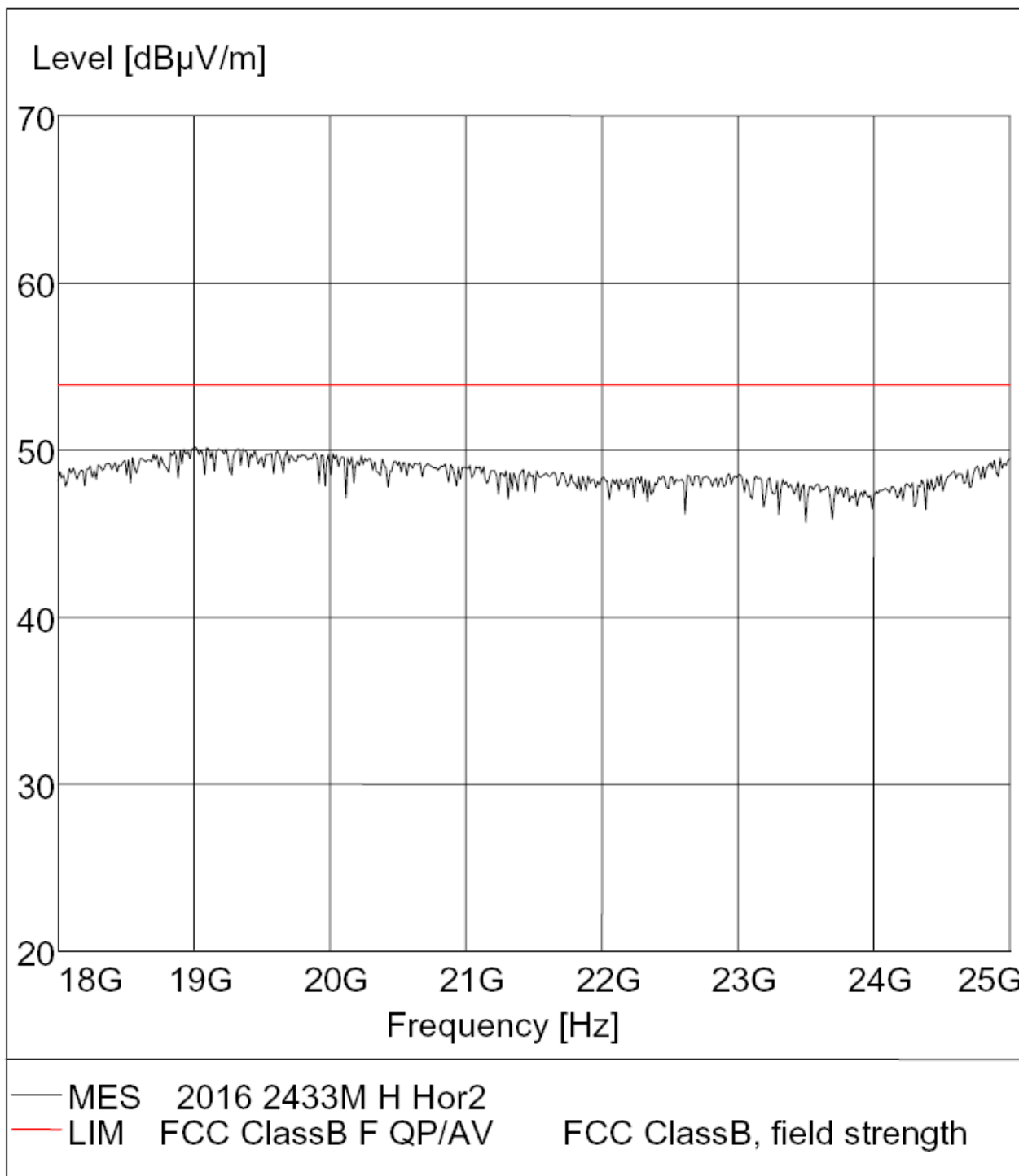


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2433MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

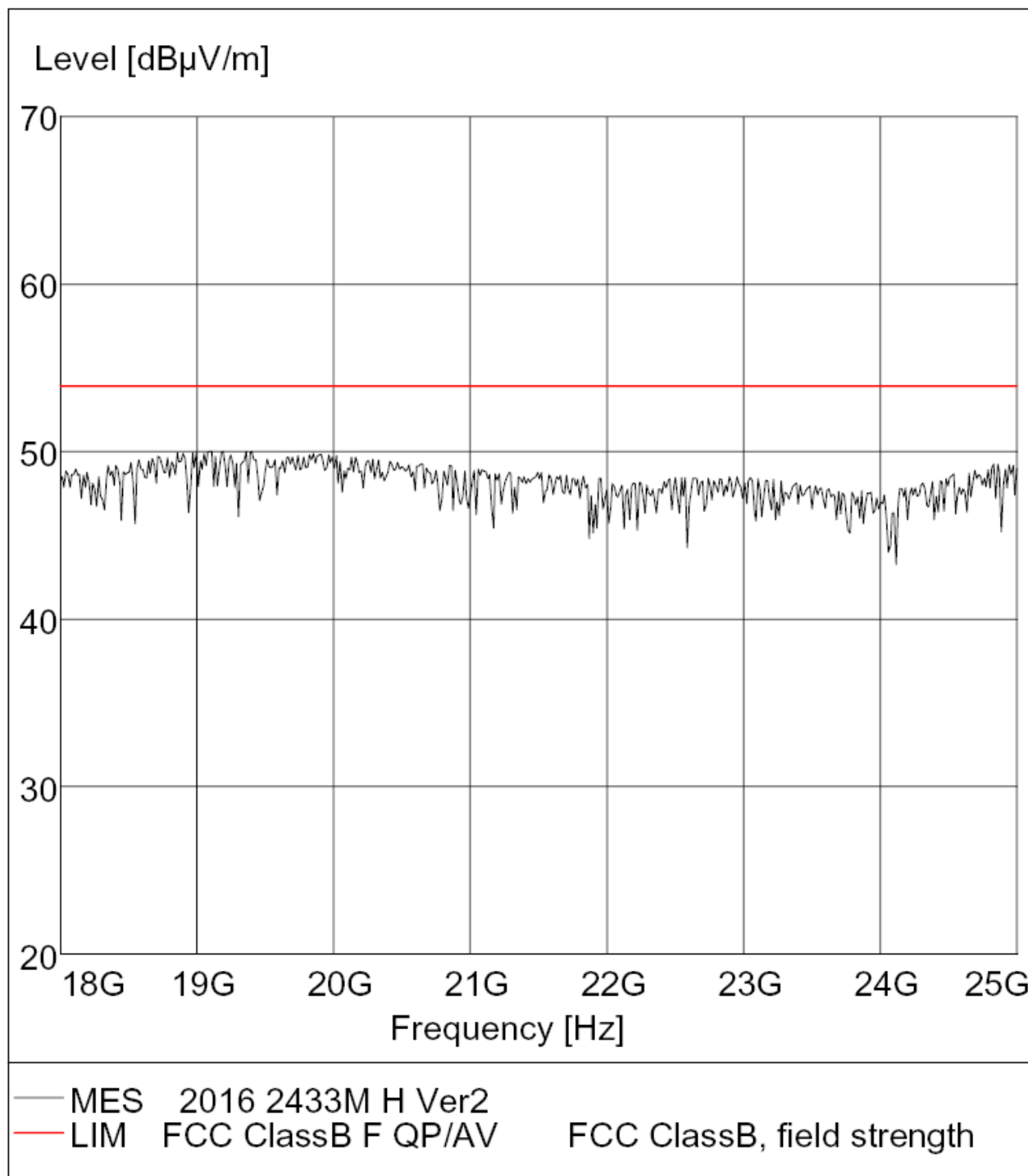


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2433MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

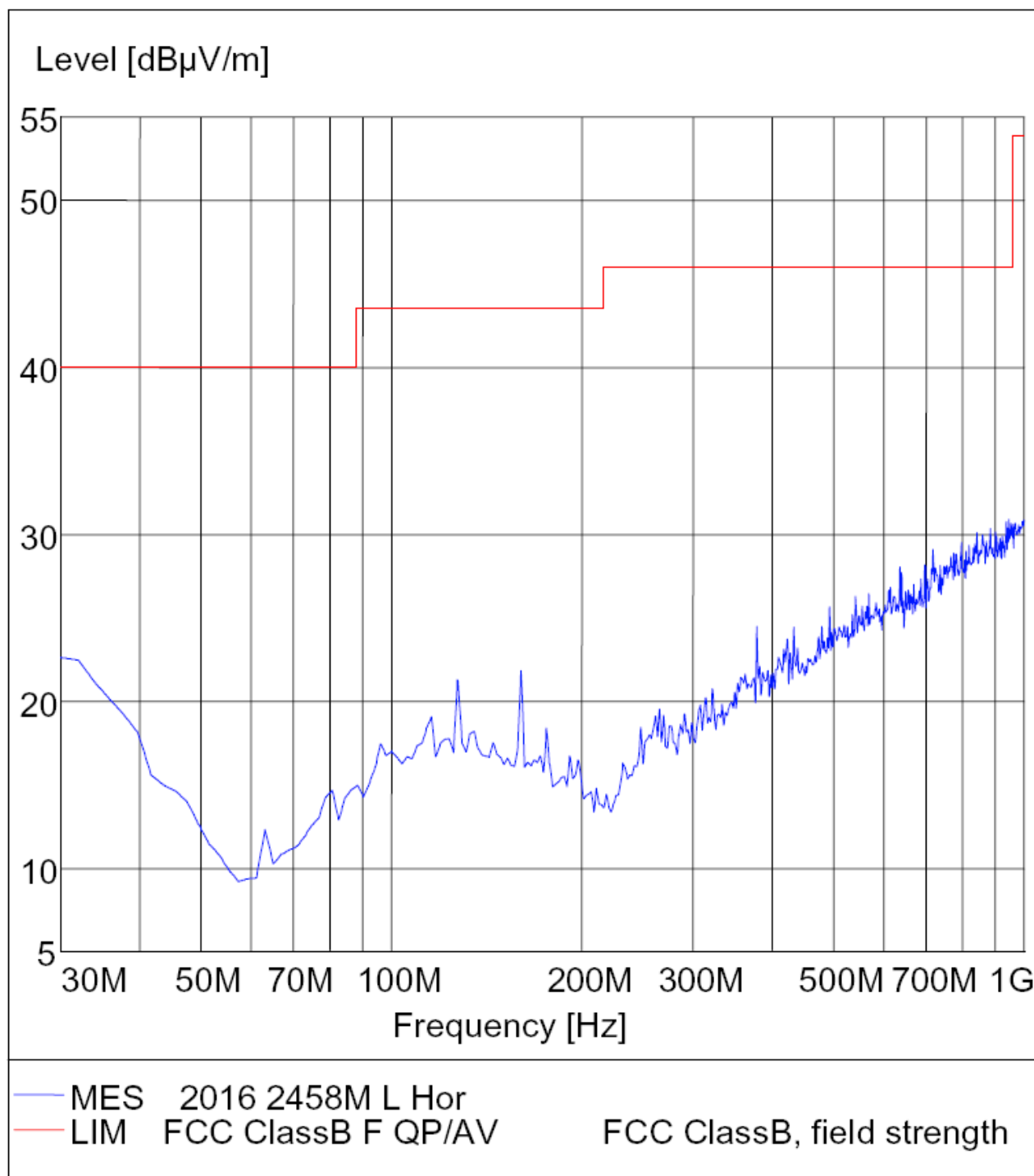


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2458MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

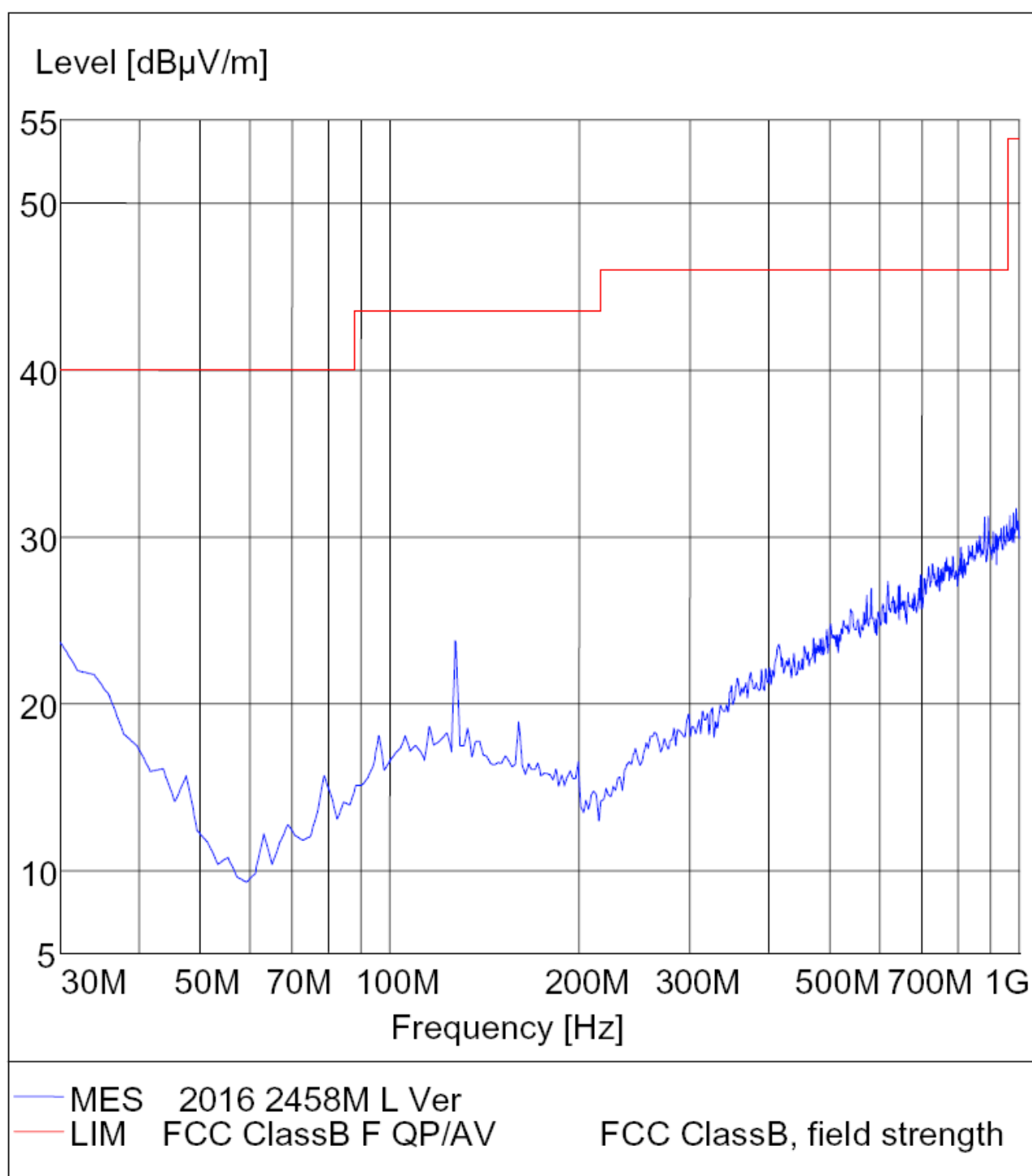


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2458MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

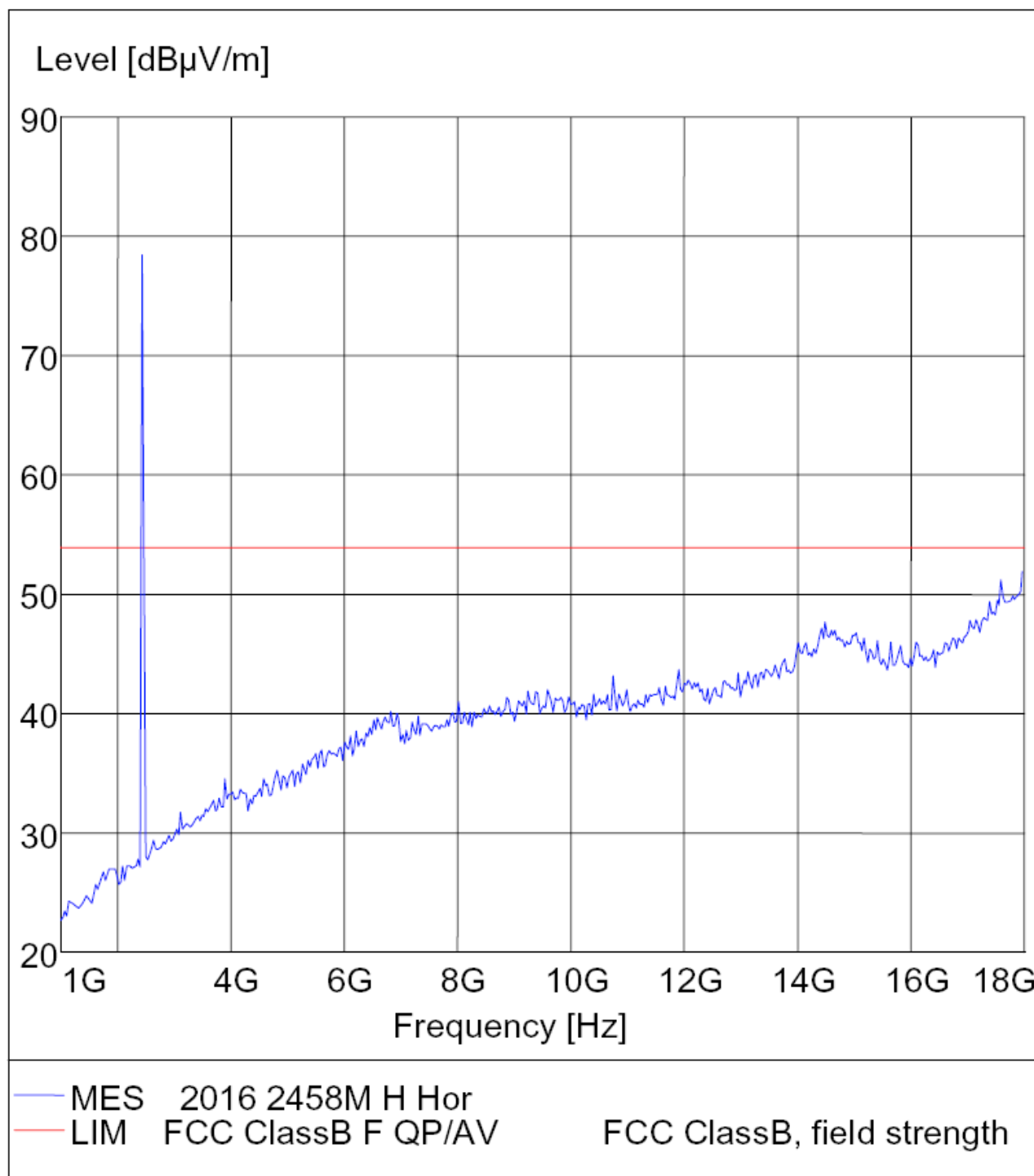


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2458MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

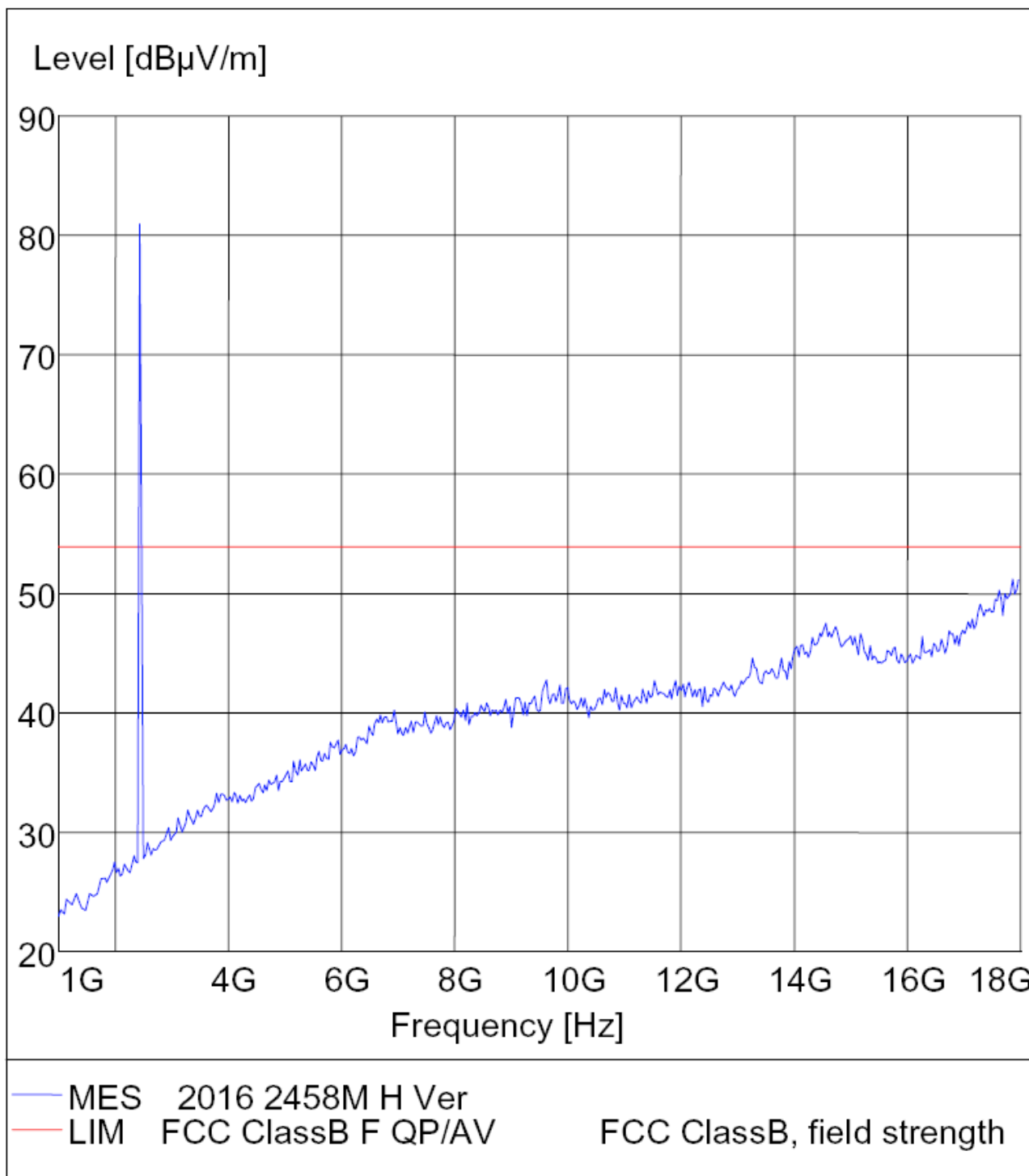


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2458MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

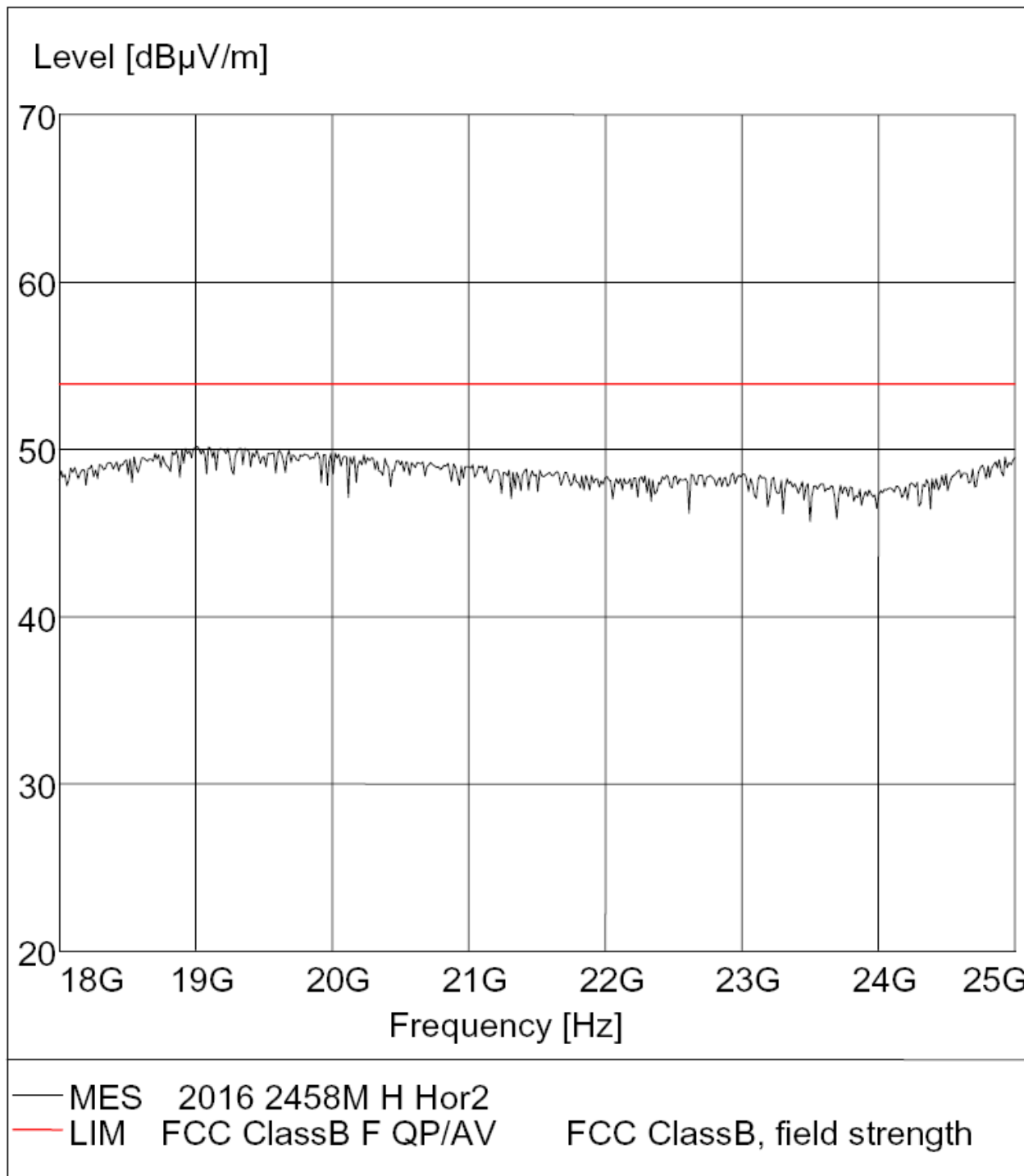


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2458MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

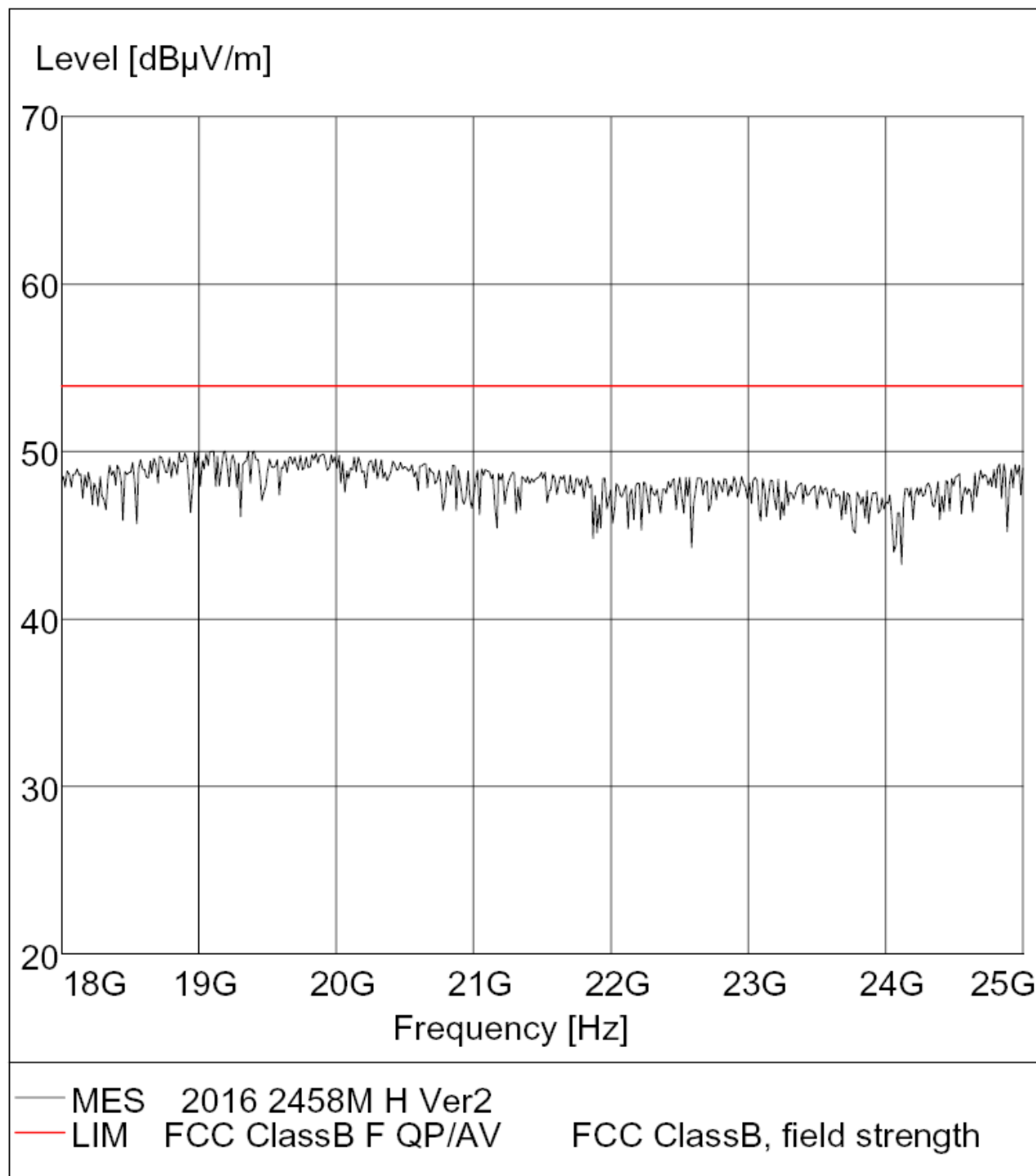


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2458MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

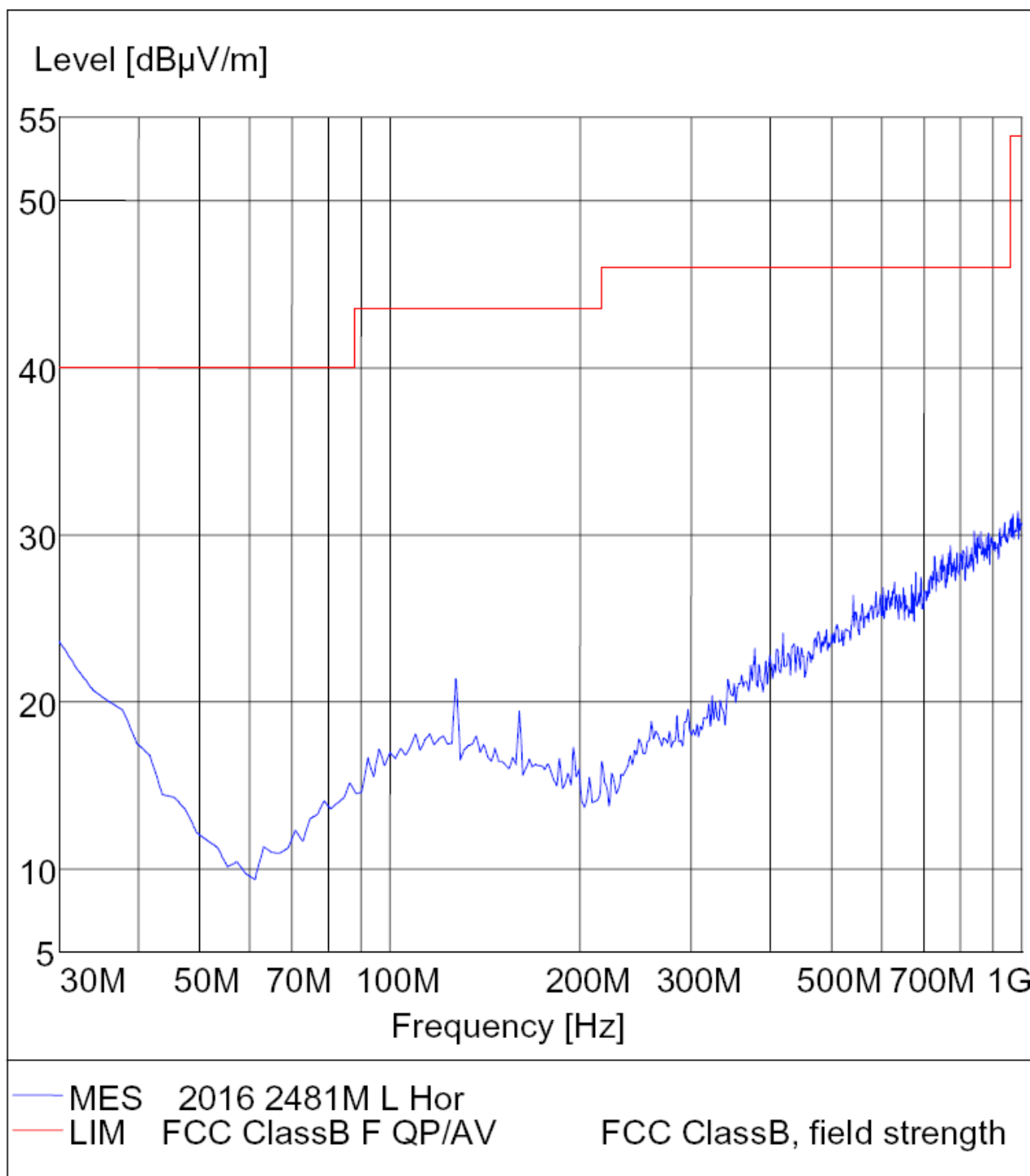


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2481MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

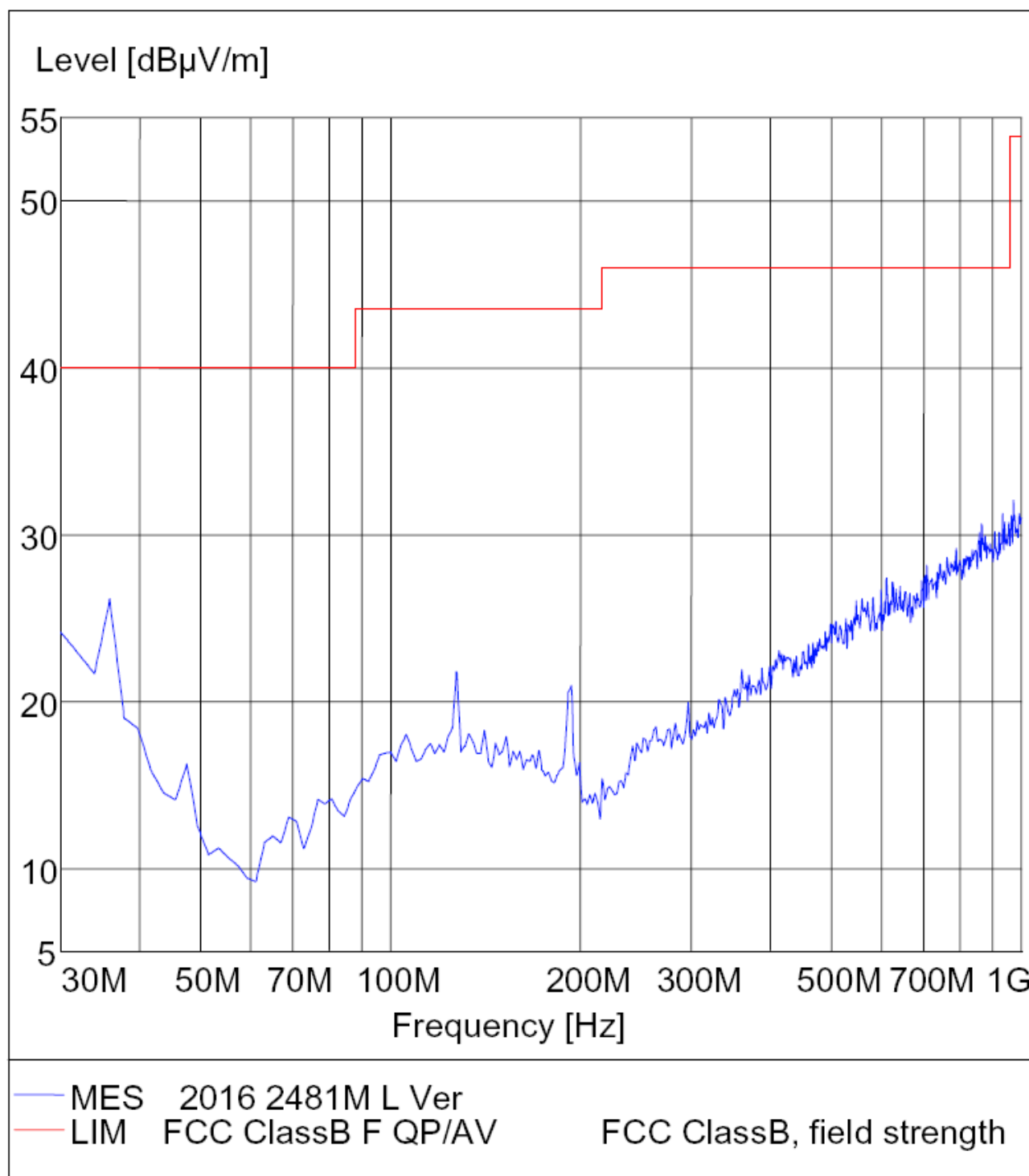


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2481MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

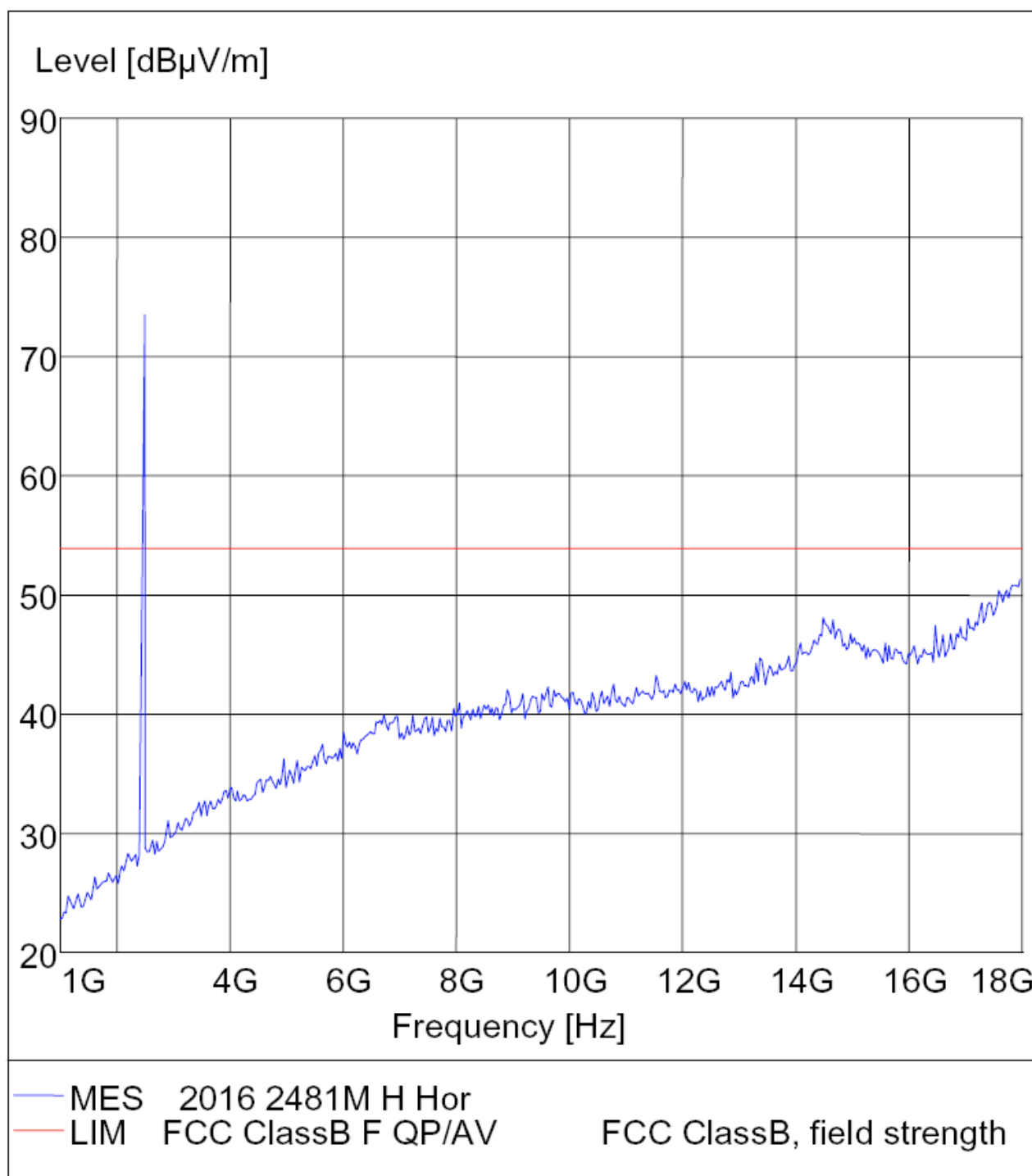


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2481MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

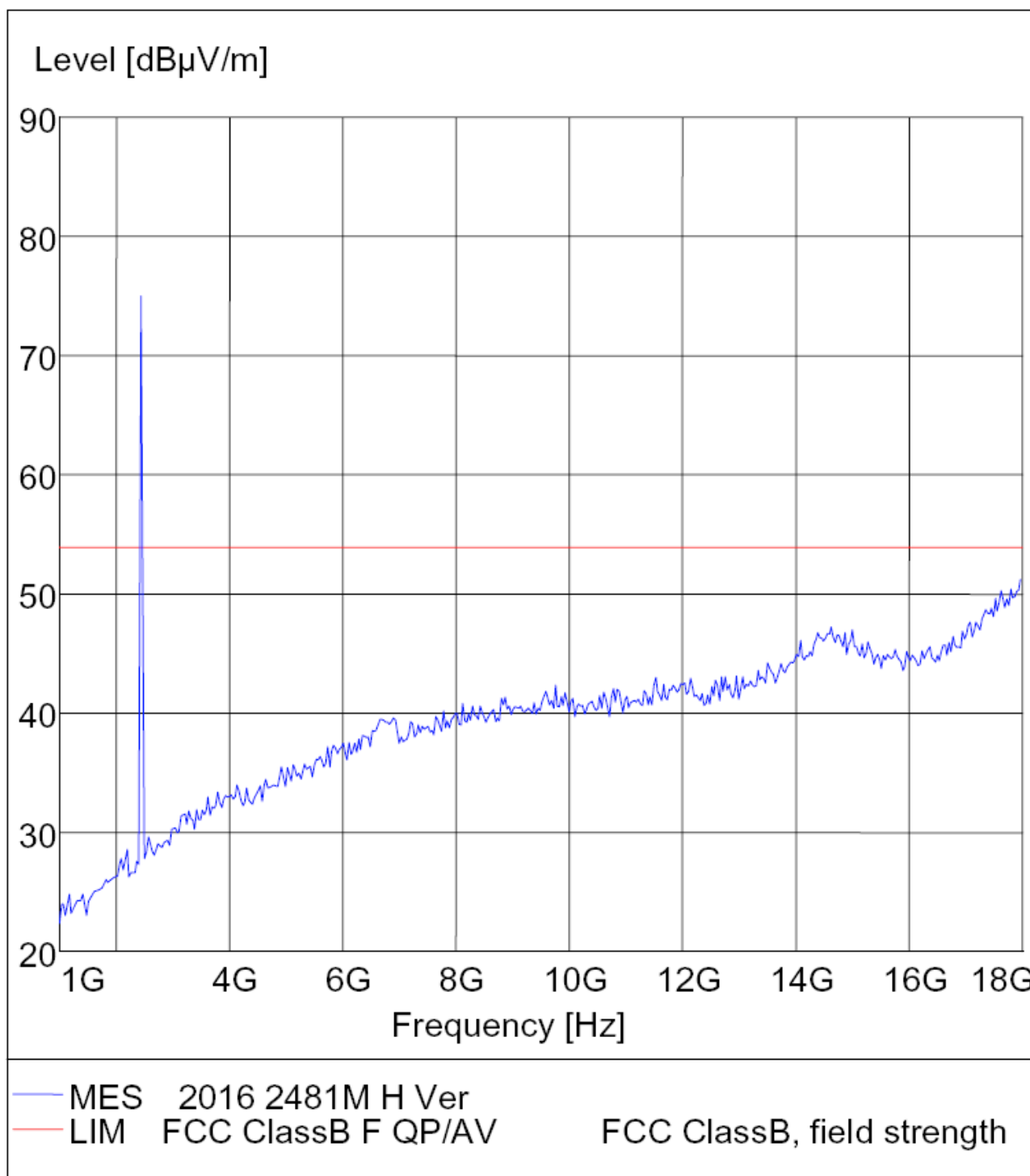


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2481MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Vertical
 Comment: DC 4.5V

M/N: 2016

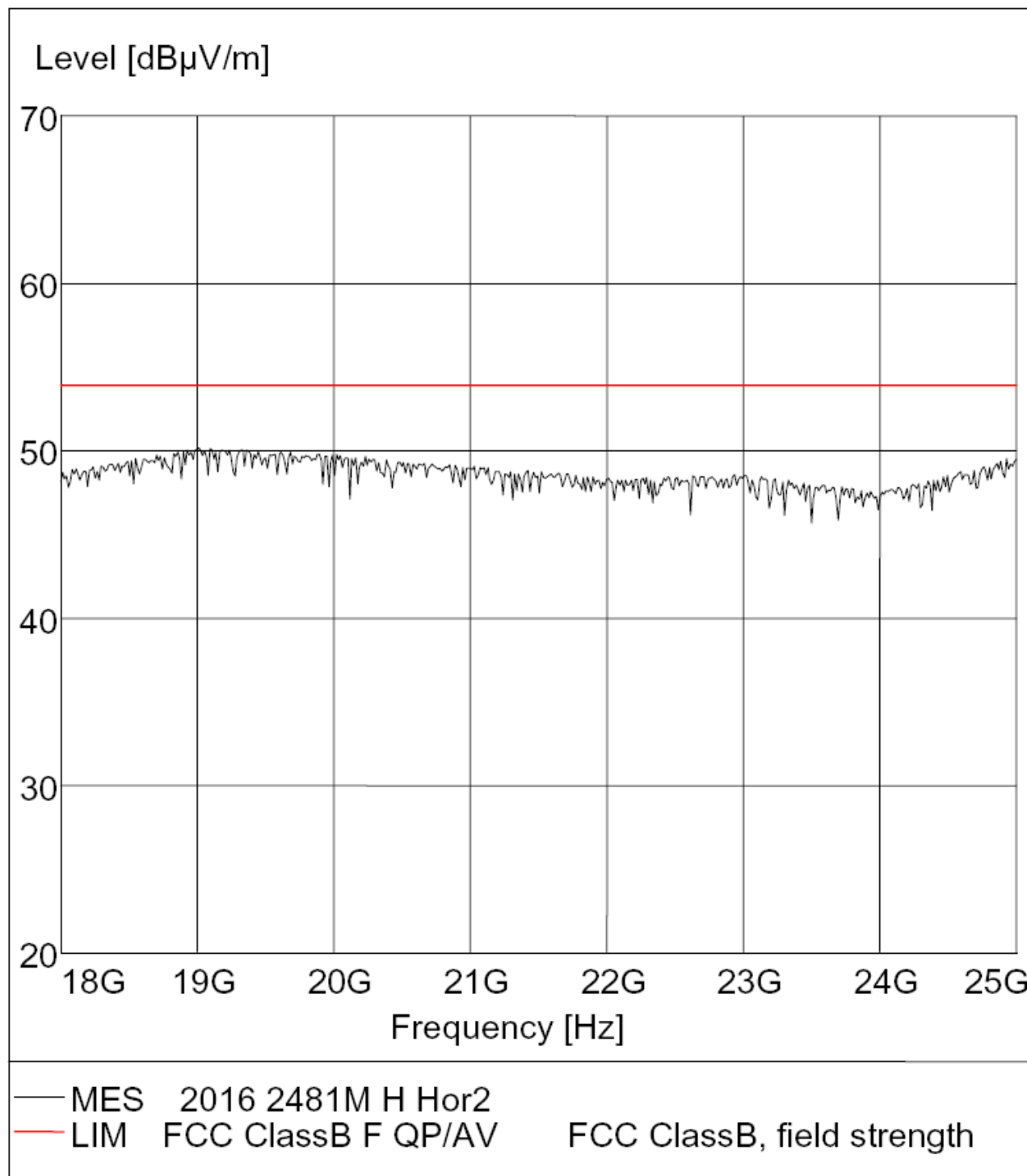


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
 Manufacturer: Ciponic Industrial (HK) Ltd.
 Operating Condition: TX 2481MHz
 Test Site: ATC EMC Lab.SAC
 Status: Andy
 Test Specification: Horizontal
 Comment: DC 4.5V

M/N: 2016

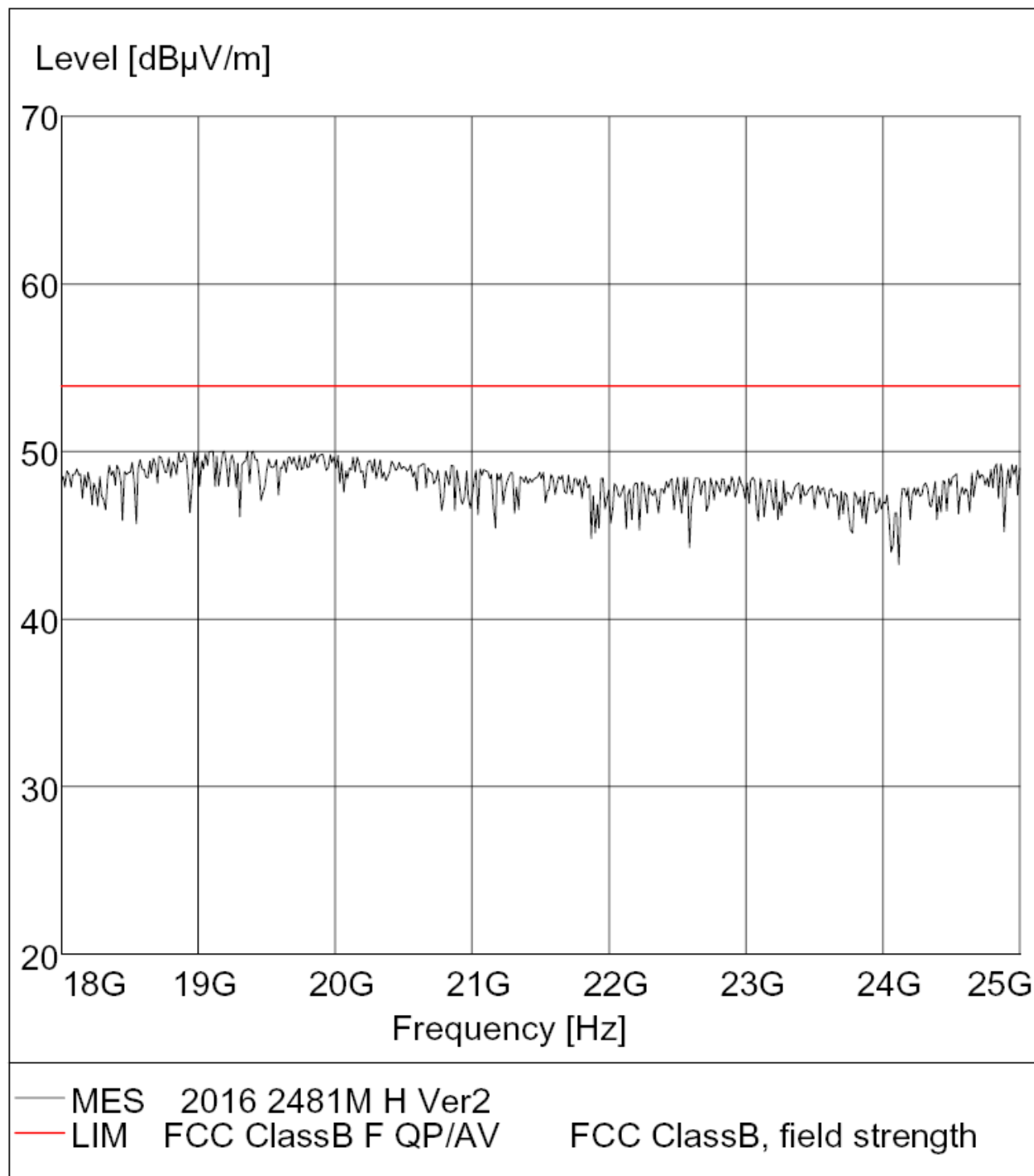


Radiated Disturbance

FCC Part 15

EUT: T-Mini Wireless 3 in 1 Controller For PS2, PS3&PC
Manufacturer: Ciponic Industrial (HK) Ltd.
Operating Condition: TX 2481MHz
Test Site: ATC EMC Lab.SAC
Status: Andy
Test Specification: Vertical
Comment: DC 4.5V

M/N: 2016



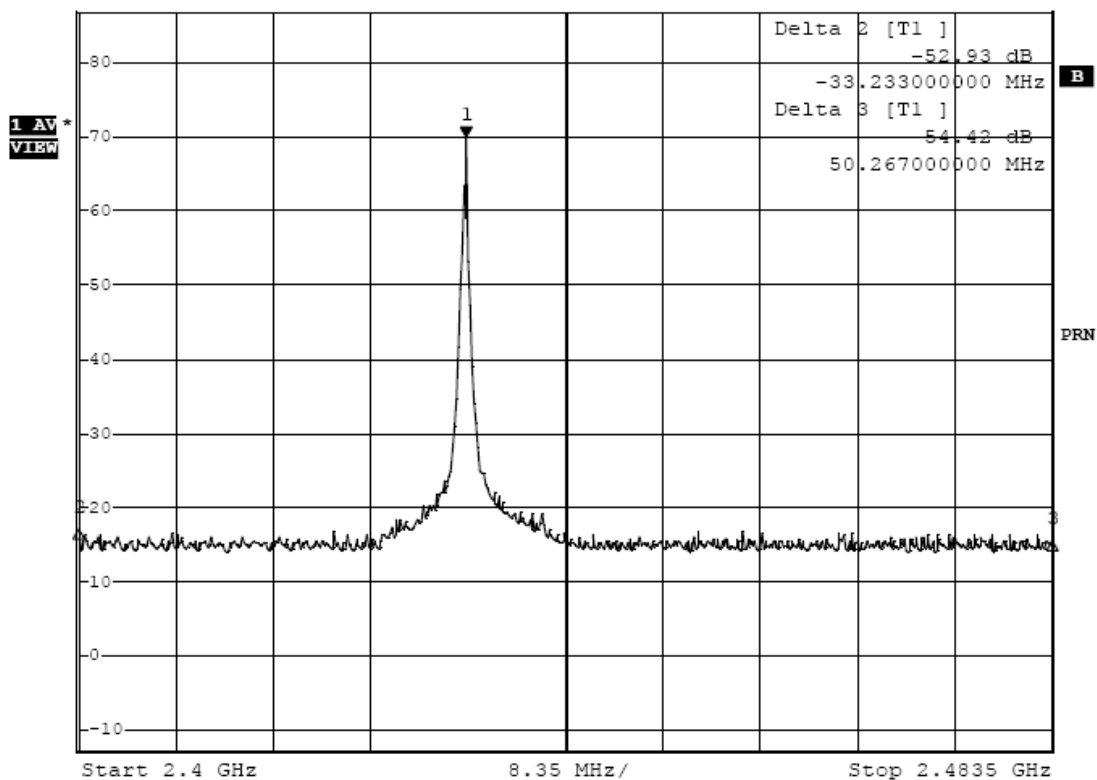


*RBW 100 kHz Marker 1 [T1]
 *VBW 100 kHz 70.01 dBuV
 *SWT 50 ms 2.43233000 GHz

Ref 87 dBuV

Att 10 dB

2.43233000 GHz



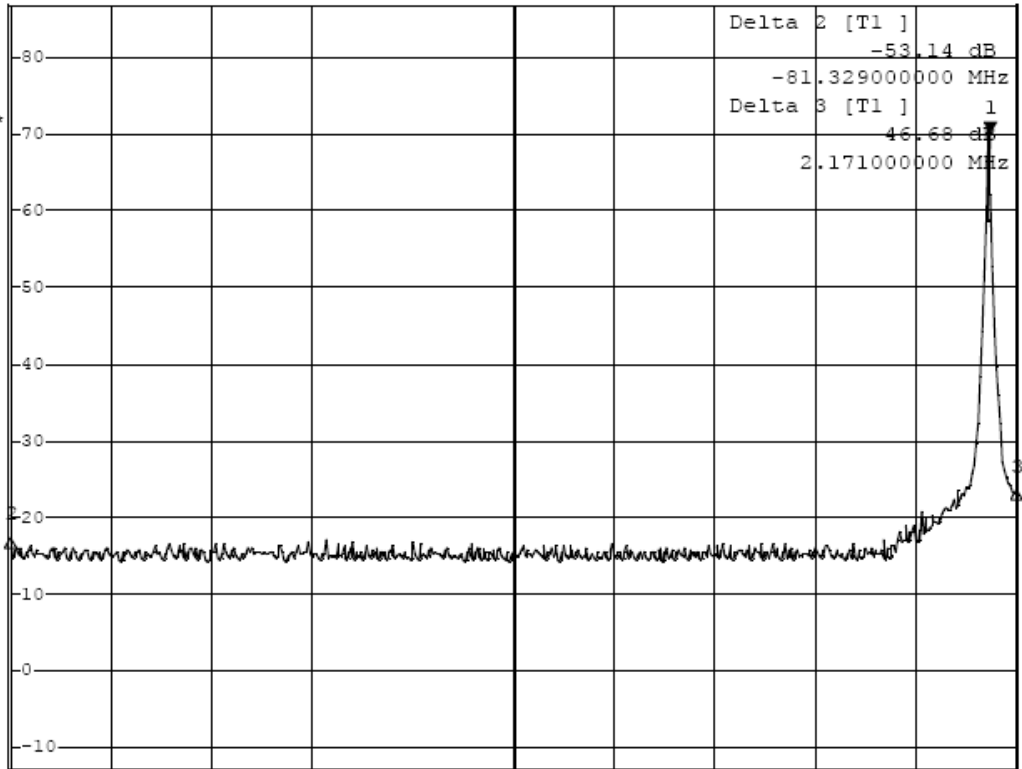


*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz 70.38 dBuV
*SWT 50 ms 2.481329000 GHz

Ref 87 dBuV

Att 10 dB

1 AV
VIEW



Delta 2 [T1]	-53.14 dB
-81.329000000 MHz	
Delta 3 [T1]	1
46.68 dB	
2.171000000 MHz	

Start 2.4 GHz

8.35 MHz/

Stop 2.4835 GHz