

FCC TEST REPORT

UNDER
FCC Part 18 RF Lighting Device

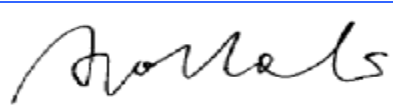
PREPARED FOR :

**Zhongshan Tianpeng Electronic Lighting and Communication
Equipment Factory**

Tian Peng Industrial District HengLan Town, Zhongshan, GuangDong, China

FCC ID: QXGEUSEUB
EUT: Self-Ballasted Fluorescent Lamp
Model: EUS-9W; EUS-11W; EUS-13W; EUB-9W; EUB-11W; EUB-13W; EUB-15W

February 18, 2003

Report Type: Original Report
Test Engineer: <u>Peter Lin</u>
Test Date: <u>January 21, 2003</u>
 Review By: <u>Apollo Liu</u>

PREPARED BY :

Shenzhen Academy of Metrology & Quality Inspection
Longzhu Road, Nanshan

FCC Registration Number: 97379

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1. Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 18	Conducted Test	PASS	The test results meet limit
FCC Part 18	Radiated Test	PASS	The test results meet limit.

2. Test Statement

2.1 Test Statement

- A. This statement explains the test condition of this project. The EUT was tested under the condition of each test item.
- B. The data shown in this report reflects the worst – case data for the condition as the summary of test result.
- C. EUT conditions.

Note: (1)The EUT is Self-Ballasted Fluorescent Lamp; Working Frequency: (0.040~0.045)MHz.
(2)It is acknowledged by Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory the Selling Model No.: EUS-9W; EUS-11W; EUS-13W; EUB-9W; EUB-11W; EUB-13W; EUB-15W are identical. The Model difference is for marketing purposes only.

Model	Rating	Power(W)
EUS-9W	120V/60Hz, 140mA	8.21
EUS-11W	120V/60Hz, 170mA	9.76
EUS-13W	120V/60Hz, 200mA	10.10
EUB-9W	120V/60Hz, 140mA	8.01
EUB-11W	120V/60Hz, 170mA	9.53
EUB-13W	120V/60Hz, 200mA	9.68
EUB-15W	120V/60Hz, 230mA	11.59

2.2 Departure From Document Policies, Procedure or Specifications, The Statement

1. Did have Any departure from document policies & procedures or from specifications.
Yes ____ , No ☐
If yes , the description as below.
2. The report must not be used by the client to claim product endorsement by any agency the government.
3. This product is a test sample that was shown as the photos of this test report only.
4. The effect that the results relate only to the items tested.

3. EUT Modifications

No modification by Shenzhen Academy of Metrology & Quality Inspection.

4. Conducted Power Line Test

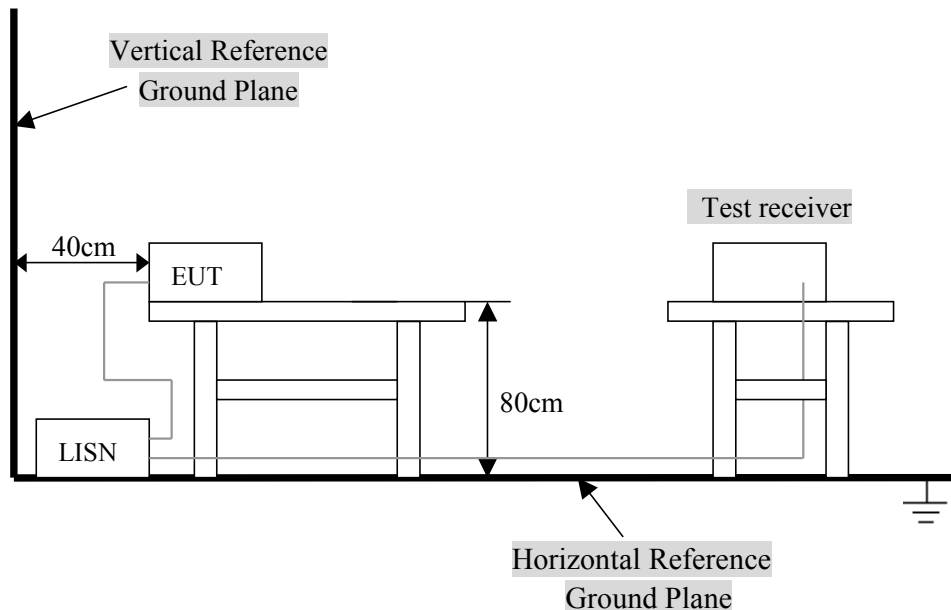
4.1 Test Equipment

Please refer to Section 8 this report.

4.2 Test Procedure

The EUT was tested according to ANSI C63.4 - 1992. The frequency spectrum from 0.45 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 OF ANSI C63.4 - 1992. cables and peripherals were moved to find the maximum emission levels for each frequency.

4.3 Test Setup



For the actual test configuration, Please refer to the related items – Photos of Testing.

4. 4 Configuration of The EUT

The EUT was configured according to ANSI C63.4-1992. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

DEVICE	MANUFACTURER	MODEL #	FCCID / DoC
Self-Ballasted Fluorescent Lamp	Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory	EUS-9W; EUS-11W; EUS-13W; EUB-9W; EUB-11W; EUB-13W; EUB-15W	QXGEUSEUB

B. Internal Devices

DEVICE	MANUFACTURER	MODEL #	FCCID / DoC
N/A			

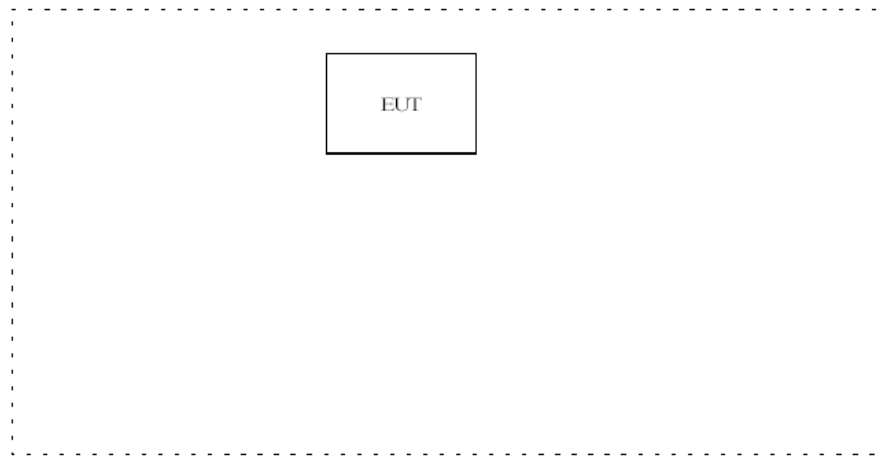
C. Peripherals

DEVICE	MANUFAC-TURER	MODEL # SERIAL #	FCC ID/ DoC	CABLE
N/A				

4.5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 1992.

- A. Setup the EUT and simulators as shown on follow.
- B. The EUT was connected to the power main through a Line Impedance Stabilization Network (LISN).
- C. This provided a 50 ohm coupling impedance for the measuring equipment..



4.6 Conducted Power Line Emission Limits

FCC Part 18 (dBuV)	
FREQUENCY RANGE (MHz)	Limits (dBuV)
0.45 – 2.51	48
2.51 – 3.0	69.5
3.0 – 30	48

NOTE : In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUS-9W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.455	44.1	Va	48.0	-3.9
0.599	40.0	Va	48.0	-8.0
0.775	38.0	Va	48.0	-10.0
0.450	44.5	Vb	48.0	-3.5
0.493	42.2	Vb	48.0	-5.8
0.632	40.2	Vb	48.0	-7.8

Note:

- 1.Uncertainty in conducted emission measured is <+/- -2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUS-11W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.486	42.0	Va	48.0	-6.0
0.527	40.2	Va	48.0	-7.8
0.794	37.0	Va	48.0	-11.0
0.455	44.5	Vb	48.0	-3.5
0.538	41.0	Vb	48.0	-7
0.812	38.0	Vb	48.0	-10.0

Note:

- 1.Uncertainty in conducted emission measured is <+/- -2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUS13W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.450	43.6	Va	48.0	-4.4
0.506	38.9	Va	48.0	-9.1
0.595	35.9	Va	48.0	-12.1
0.450	41.0	Vb	48.0	-7.0
0.505	41.5	Vb	48.0	-6.5
0.844	32.5	Vb	48.0	-15.5

Note:

- 1.Uncertainty in conducted emission measured is <+/- 2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUB-9W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.471	34.1	Va	48.0	-13.9
0.505	30.1	Va	48.0	-17.9
0.660	31.5	Va	48.0	-16.5
0.460	34.3	Vb	48.0	-13.7
0.545	31.2	Vb	48.0	-16.8
0.647	29.6	Vb	48.0	-18.4

Note:

- 1.Uncertainty in conducted emission measured is <+/- 2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUB-11W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.460	39.9	Va	48.0	-8.1
0.520	34.9	Va	48.0	-13.1
0.744	33.8	Va	48.0	-14.2
0.453	40.2	Vb	48.0	-7.8
0.525	34.7	Vb	48.0	-13.3
0.629	33.7	Vb	48.0	-14.3

Note:-

- 1.Uncertainty in conducted emission measured is $\leq \pm 2$ dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUB-13W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.463	38.0	Va	48.0	-10.0
0.556	39.8	Va	48.0	-8.2
1.135	39.7	Va	48.0	-8.3
0.451	34.0	Vb	48.0	-14.0
0.597	34.4	Vb	48.0	-13.6
0.796	30.4	Vb	48.0	-17.6

Note:

- 1.Uncertainty in conducted emission measured is $\leq \pm 2$ dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUB-15W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV)	Va/Vb	LIMITS QP (dBuV)	MARGIN (dB)
0.468	35.2	Va	48.0	-12.8
0.817	34.8	Va	48.0	-13.2
1.041	32.3	Va	48.0	-15.7
0.457	34.9	Vb	48.0	-13.1
0.659	31.5	Vb	48.0	-16.5
1.035	31.3	Vb	48.0	-16.7

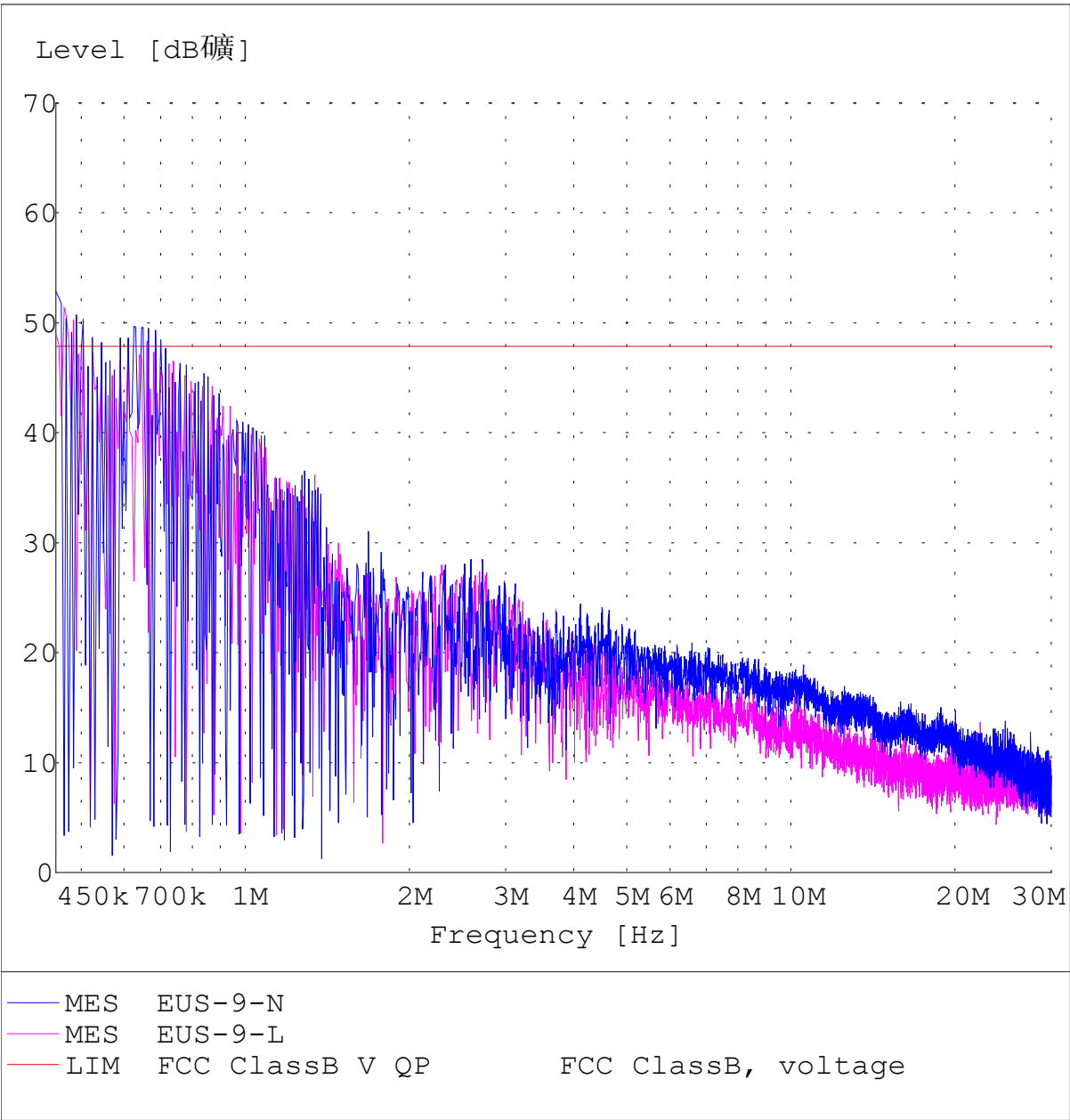
Note:

- 1.Uncertainty in conducted emission measured is <+/-2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 4.Emission = Meter Reading + Factor ; .Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Conducted Emission

FCC Part 18

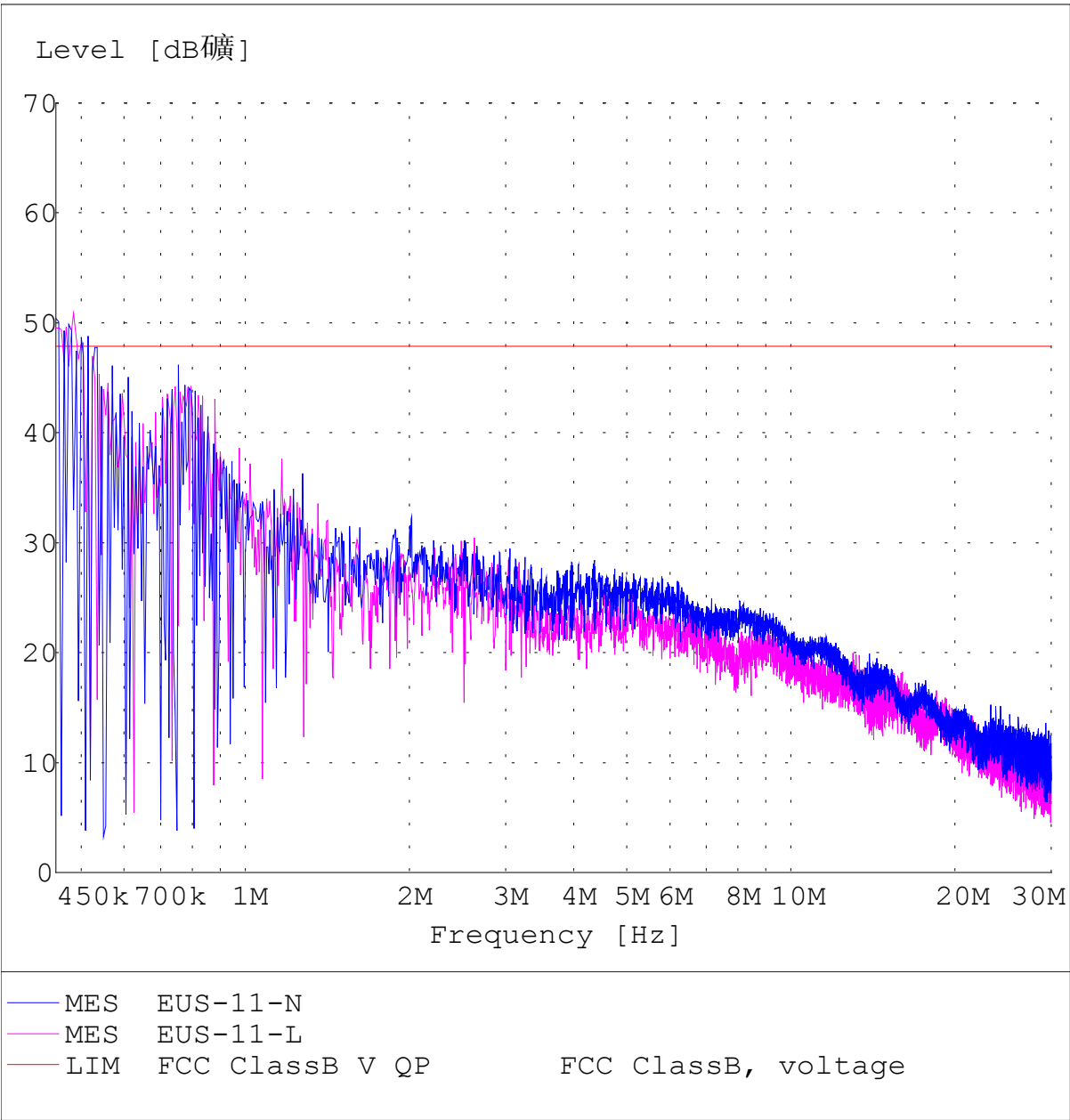
EUT: Self-Ballasted Fluorescent Lamp M/N: EUS-9W
Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



Conducted Emission

FCC Part 18

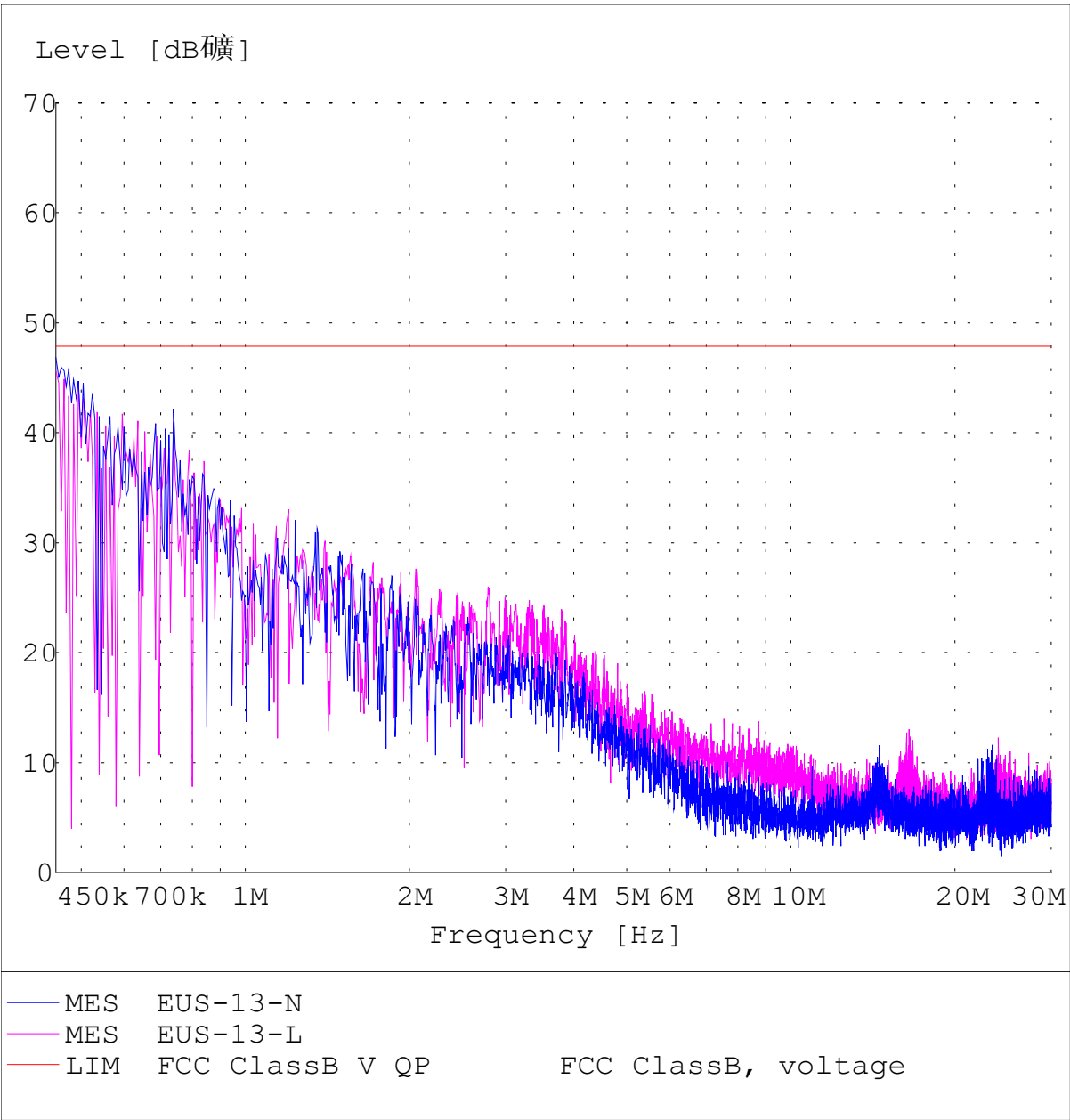
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Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



Conducted Emission

FCC Part 18

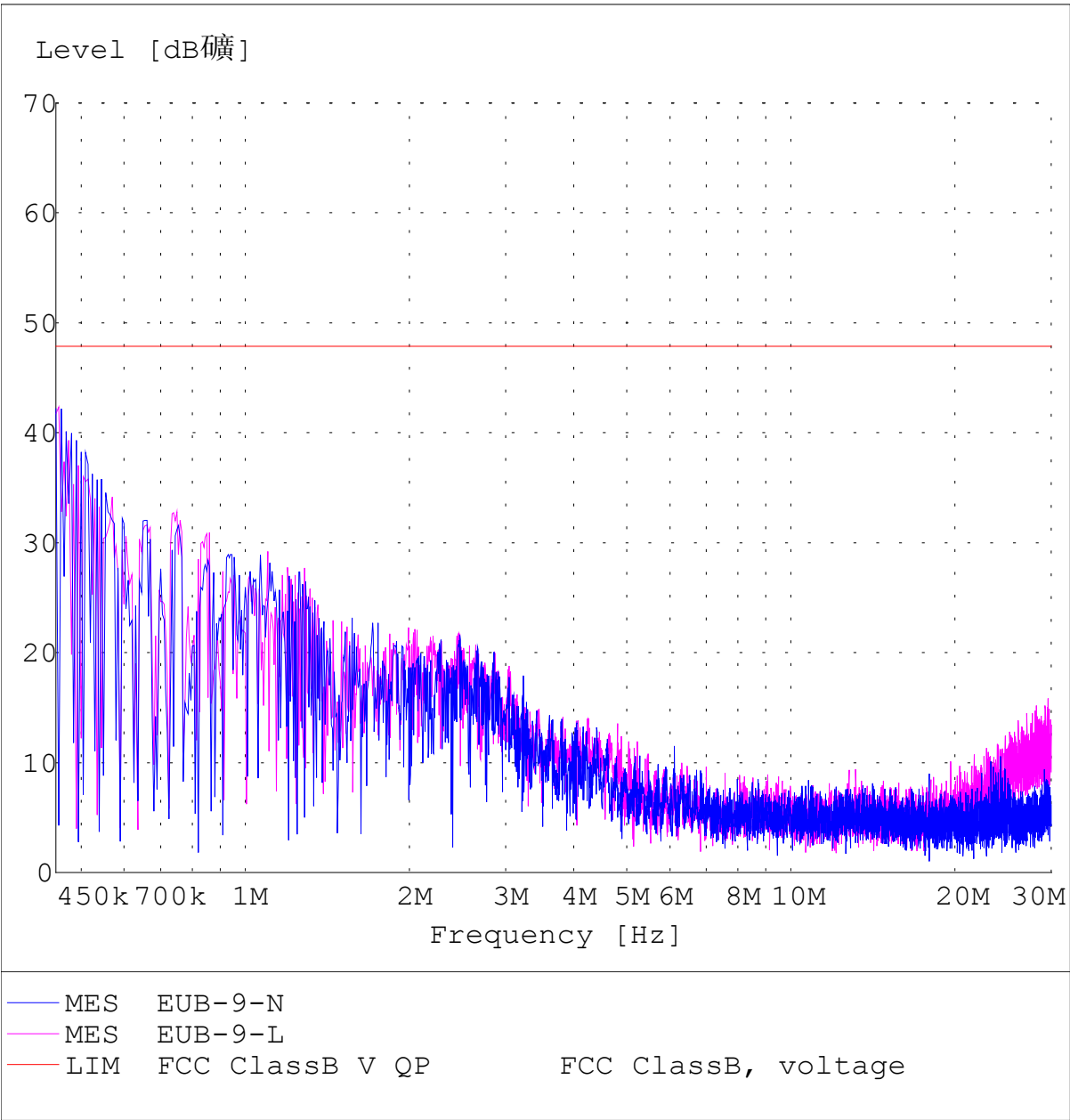
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Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



Conducted Emission

FCC Part 18

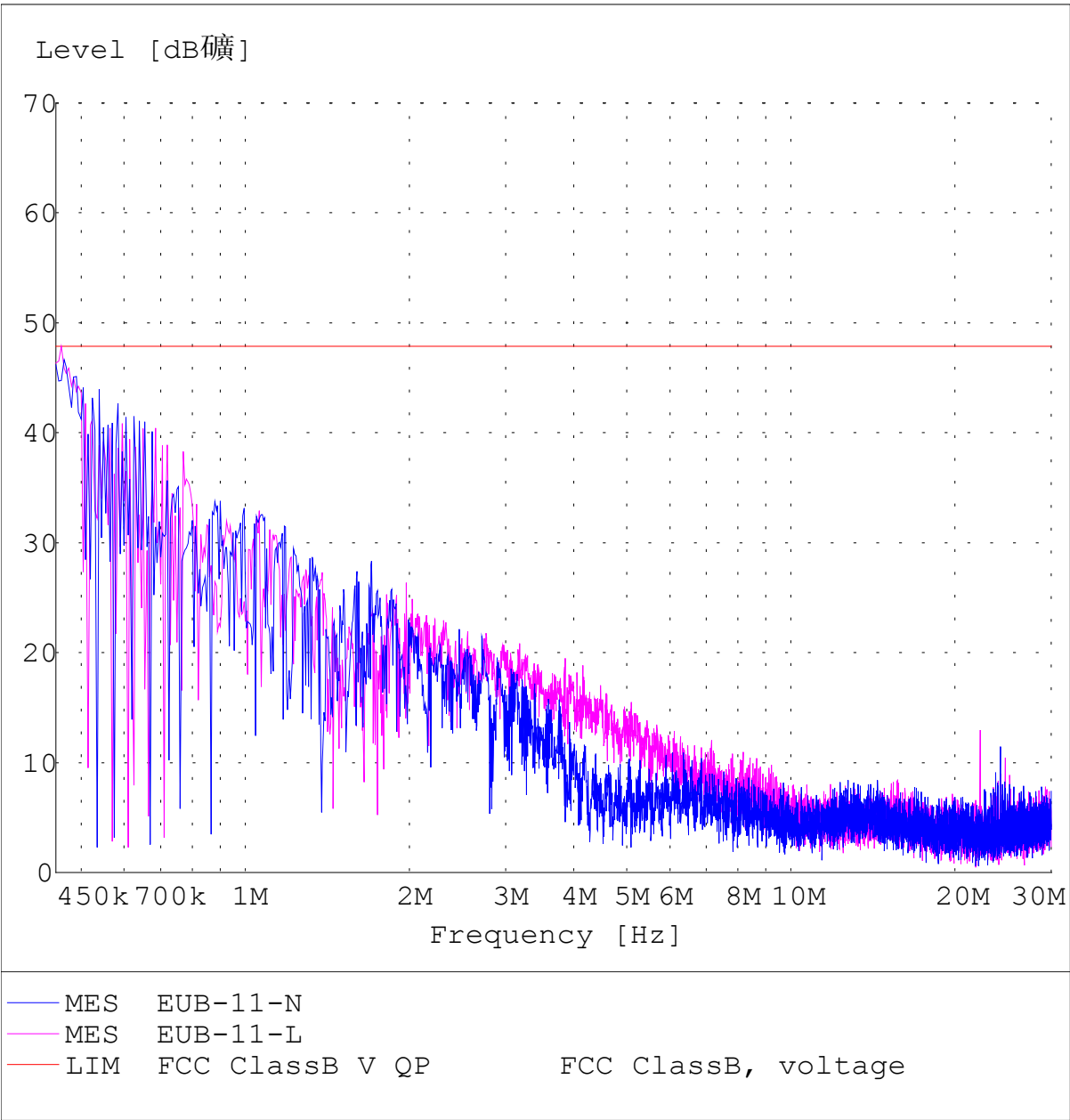
EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-9W
Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



Conducted Emission

FCC Part 18

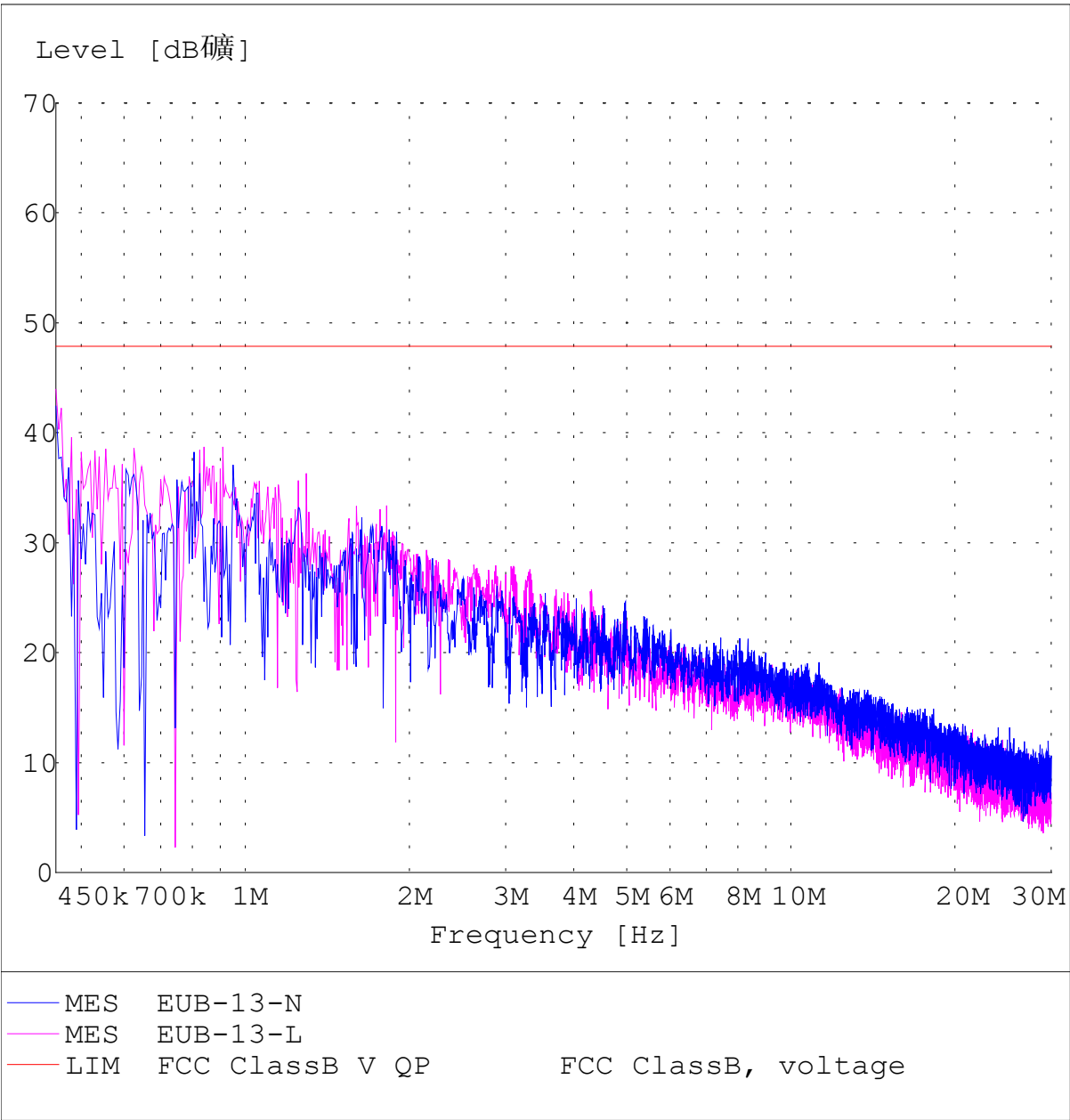
EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-11W
Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



Conducted Emission

FCC Part 18

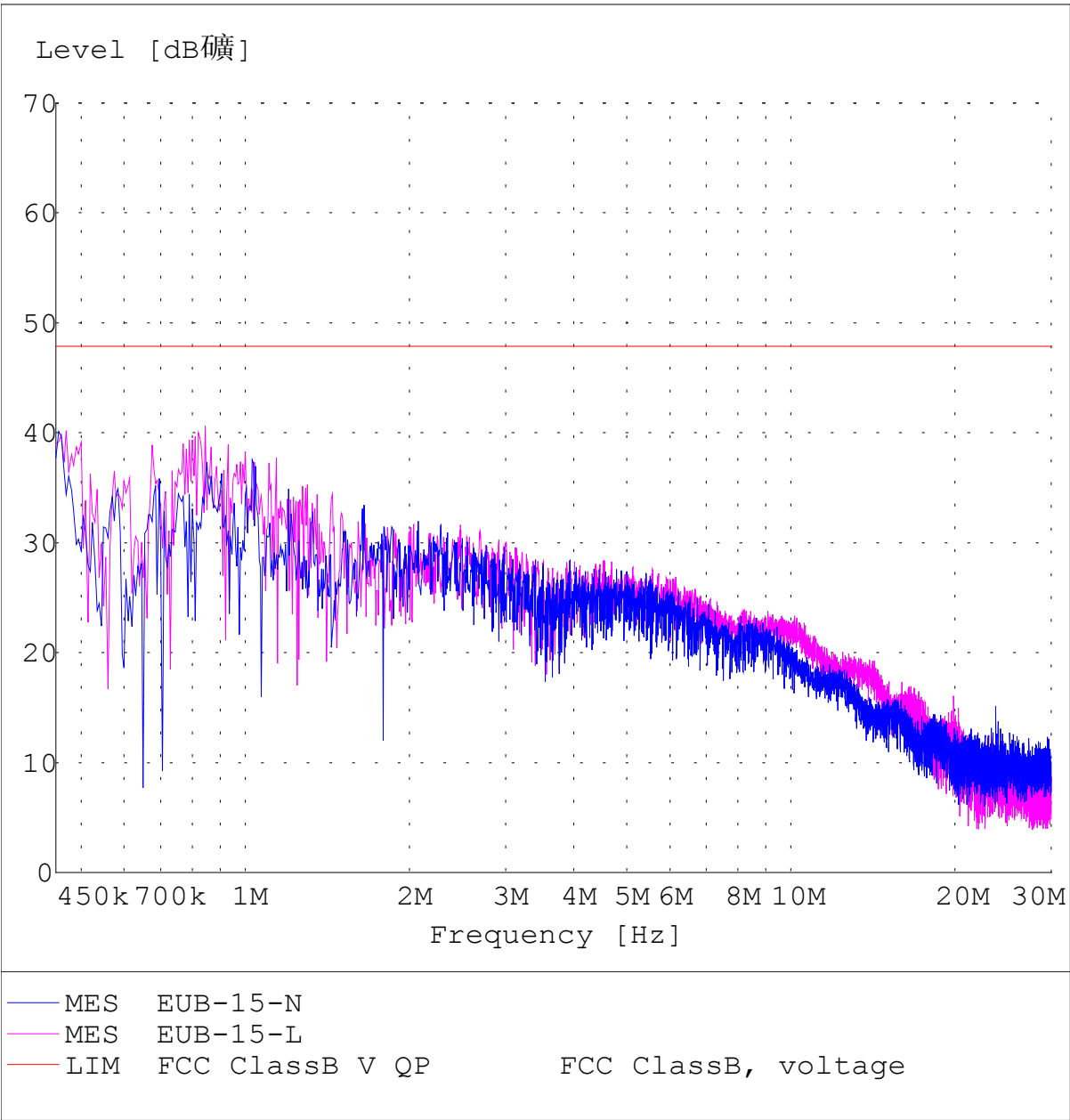
EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-13W
Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



Conducted Emission

FCC Part 18

EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-15W
Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory
Operating Condition: Normal
Test Site: SMQ EMC LAB.
Operator: Peter Lin
Test Specification: LINE&NEUTRAL
Comment:



5. Radiated Emission Test

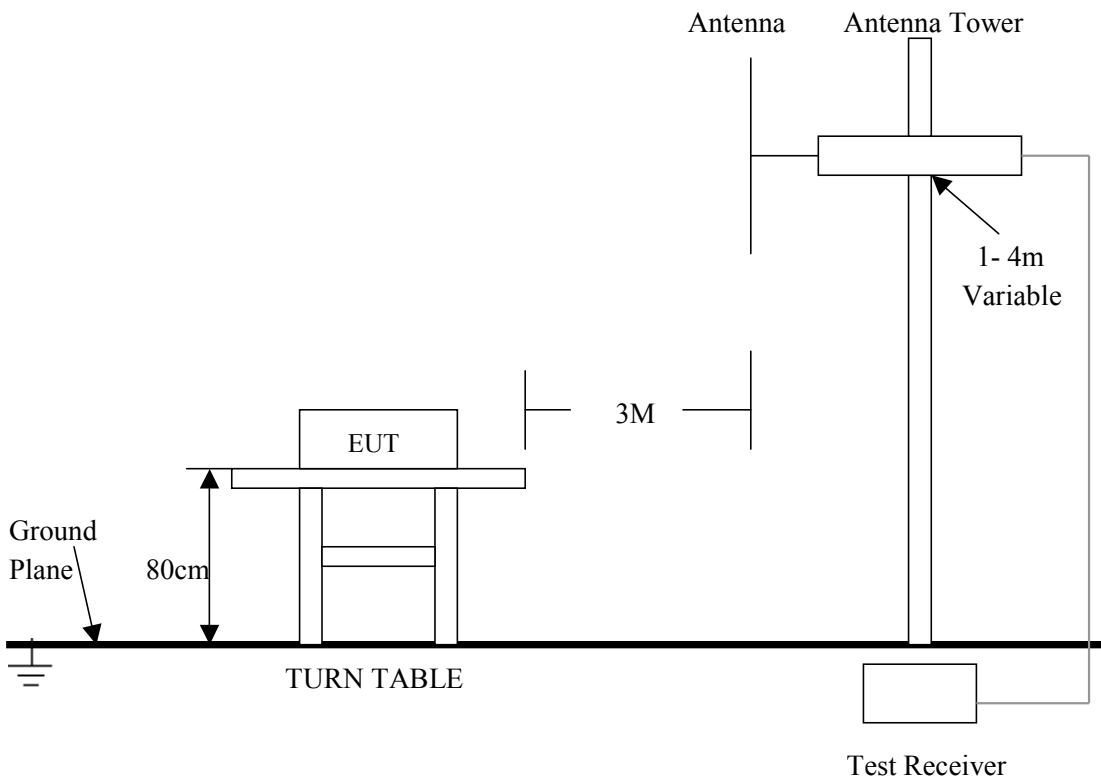
5.1 Test Equipment

Please refer to Section 8 this report.

5.2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 1992. The radiated test was performed at Shenzhen Academy of Metrology and Quality Inspection. This site is on file with the FCC laboratory division, Registration No. 97379.
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 C63.4-1992.
3. The frequency spectrum from 30 MHz to 1 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.

5.3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing.

5.4 Configuration of The EUT

Same as section 4.4 of this report

5.5 EUT Operating Condition

Same as section 4.5 of this report.

5.6 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 FCC Part 18.

Frequency (MHz)	Distance (m)	Field Strength (dBuV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 1000	3	46.0

Note:

- (1) RF Voltage (dBuV) = 20 log RF Voltage (uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the

5.7 Radiated Emission Test Result

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUS-9W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

Note: The RF voltages was scanned from 30MHz to 1000MHz on Radiated Emission of Self-Ballasted Fluorescent Lamp and no significant emissions were found in this frequency band. Test Results were under the required limit with 20dB margin or more.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUS-11W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

Note: The RF voltages was scanned from 30MHz to 1000MHz on Radiated Emission of Self-Ballasted Fluorescent Lamp and no significant emissions were found in this frequency band. Test Results were under the required limit with 20dB margin or more.

Product : Self-Ballasted Fluorescent Lamp
 Test Item : General Conducted Emission Data
 Test Voltage : 120V/60Hz AC
 Test Mode : EUS-13W
 Temperature : 24 °C
 Humidity : 52%RH
 Test Result : PASS

FREQ. (MHz)	EMISSION (dBuV/m)	HORIZ / VERT	LIMITS (dBuV/m)	MARGIN (dB)
32.360	24.5	VERT	40.0	-16.5
42.036	20.1	VERT	40.0	-19.1

Note:

- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
- (2) Emission = Reading Level + Probe Factor + Cable Loss.
- (3) Margin Value = EMISSION Level - LIMIT Value. All reading are Quasi-Peak Values.

Product : Self-Ballasted Fluorescent Lamp
Test Item : General Conducted Emission Data
Test Voltage : 120V/60Hz AC
Test Mode : EUB-9W
Temperature : 24 °C
Humidity : 52%RH
Test Result : PASS

Note: The RF voltages was scanned from 30MHz to 1000MHz on Radiated Emission of Self-Ballasted Fluorescent Lamp and no significant emissions were found in this frequency band. Test Results were under the required limit with 20dB margin or more.

Product : Self-Ballasted Fluorescent Lamp
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Product : Self-Ballasted Fluorescent Lamp
Test Item : General Conducted Emission Data
Test Voltage : 120V/60Hz AC
Test Mode : EUB-13W
Temperature : 24 °C
Humidity : 52%RH
Test Result : PASS

Note: The RF voltages was scanned from 30MHz to 1000MHz on Radiated Emission of Self-Ballasted Fluorescent Lamp and no significant emissions were found in this frequency band. Test Results were under the required limit with 20dB margin or more.

Product : Self-Ballasted Fluorescent Lamp
Test Item : General Conducted Emission Data
Test Voltage : 120V/60Hz AC
Test Mode : EUB-15W
Temperature : 24 °C
Humidity : 52%RH
Test Result : PASS

Note: The RF voltages was scanned from 30MHz to 1000MHz on Radiated Emission of Self-Ballasted Fluorescent Lamp and no significant emissions were found in this frequency band. Test Results were under the required limit with 20dB margin or more.

Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUS-9W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

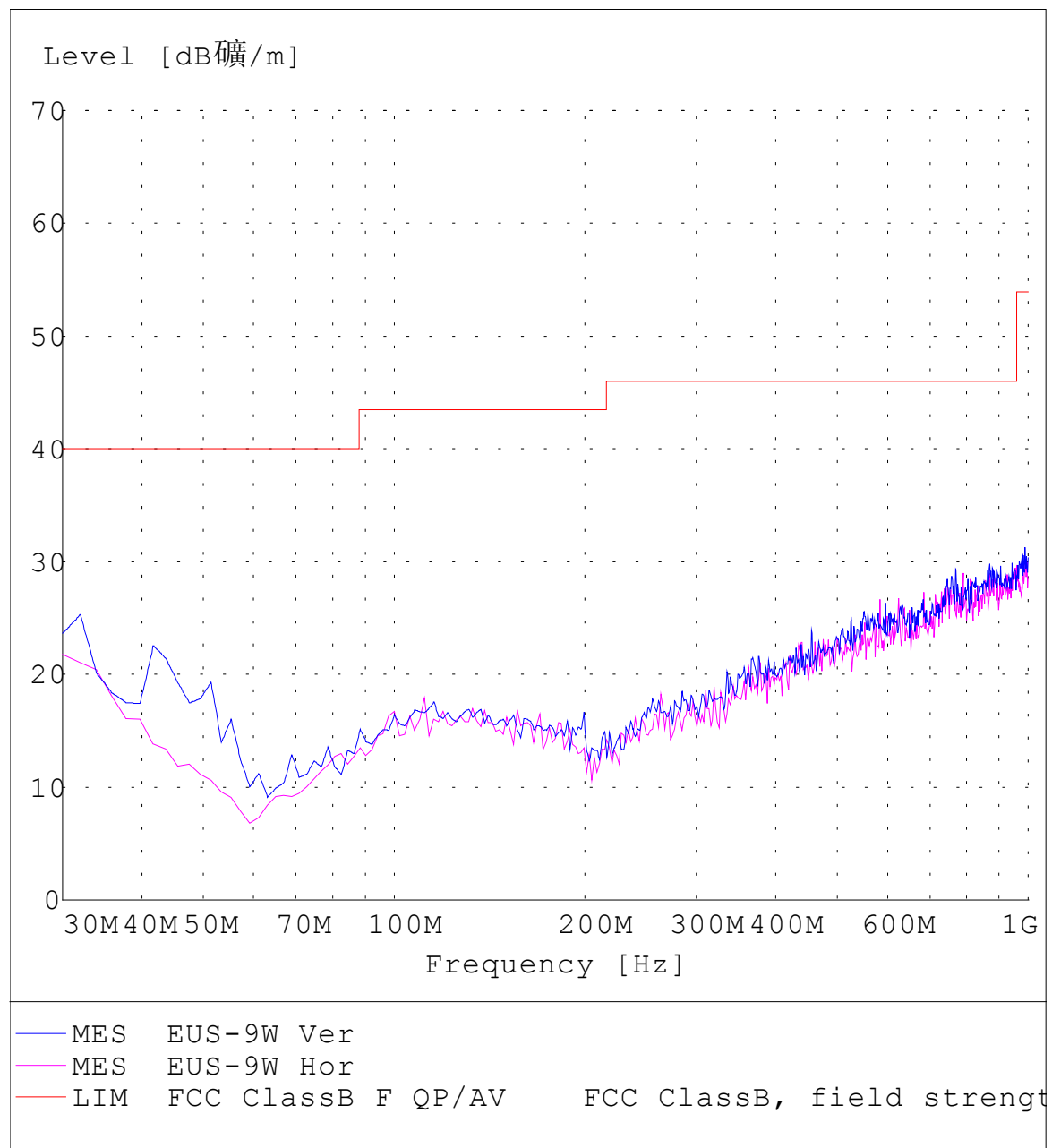
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUS-11W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

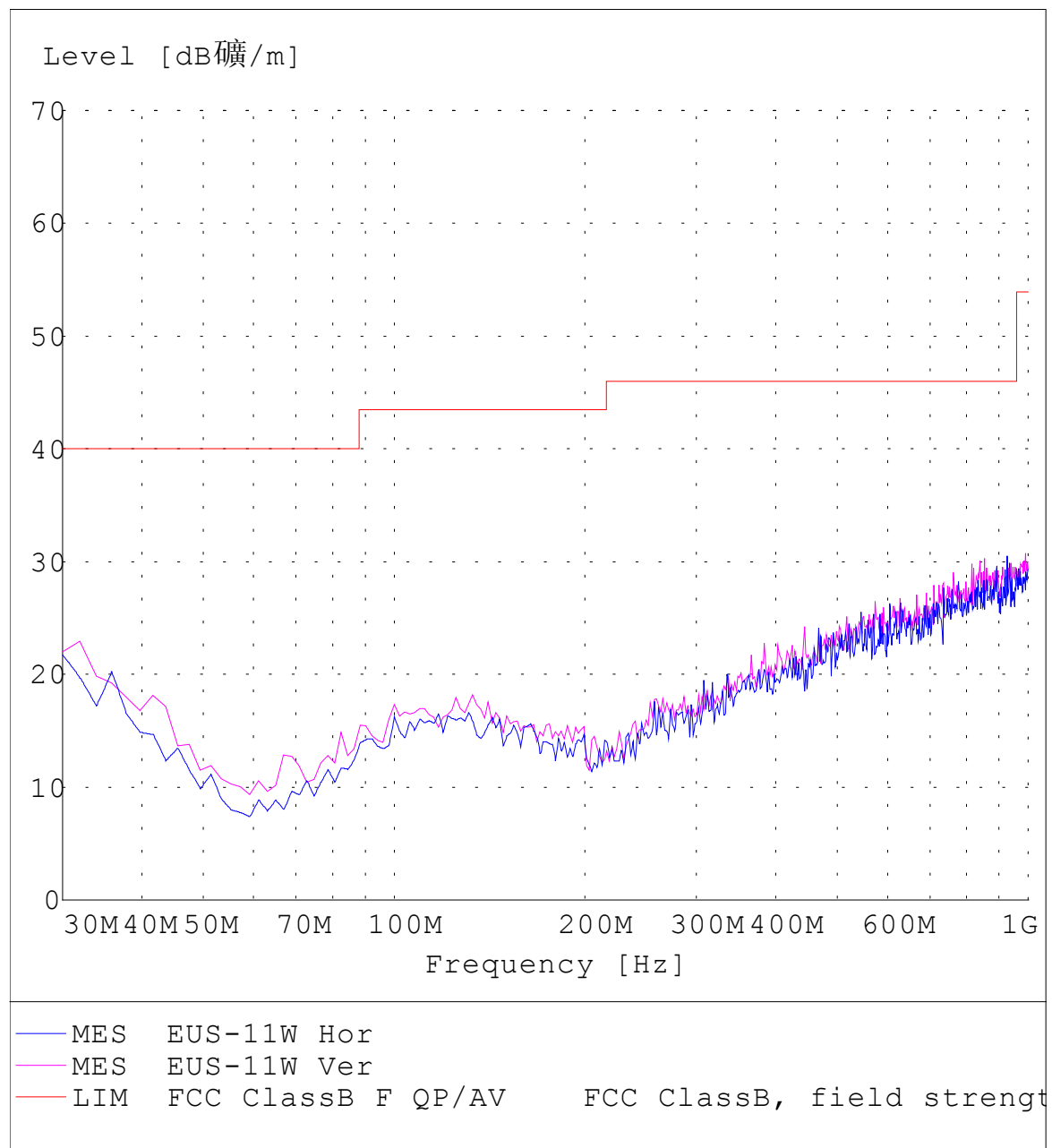
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUS-13W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

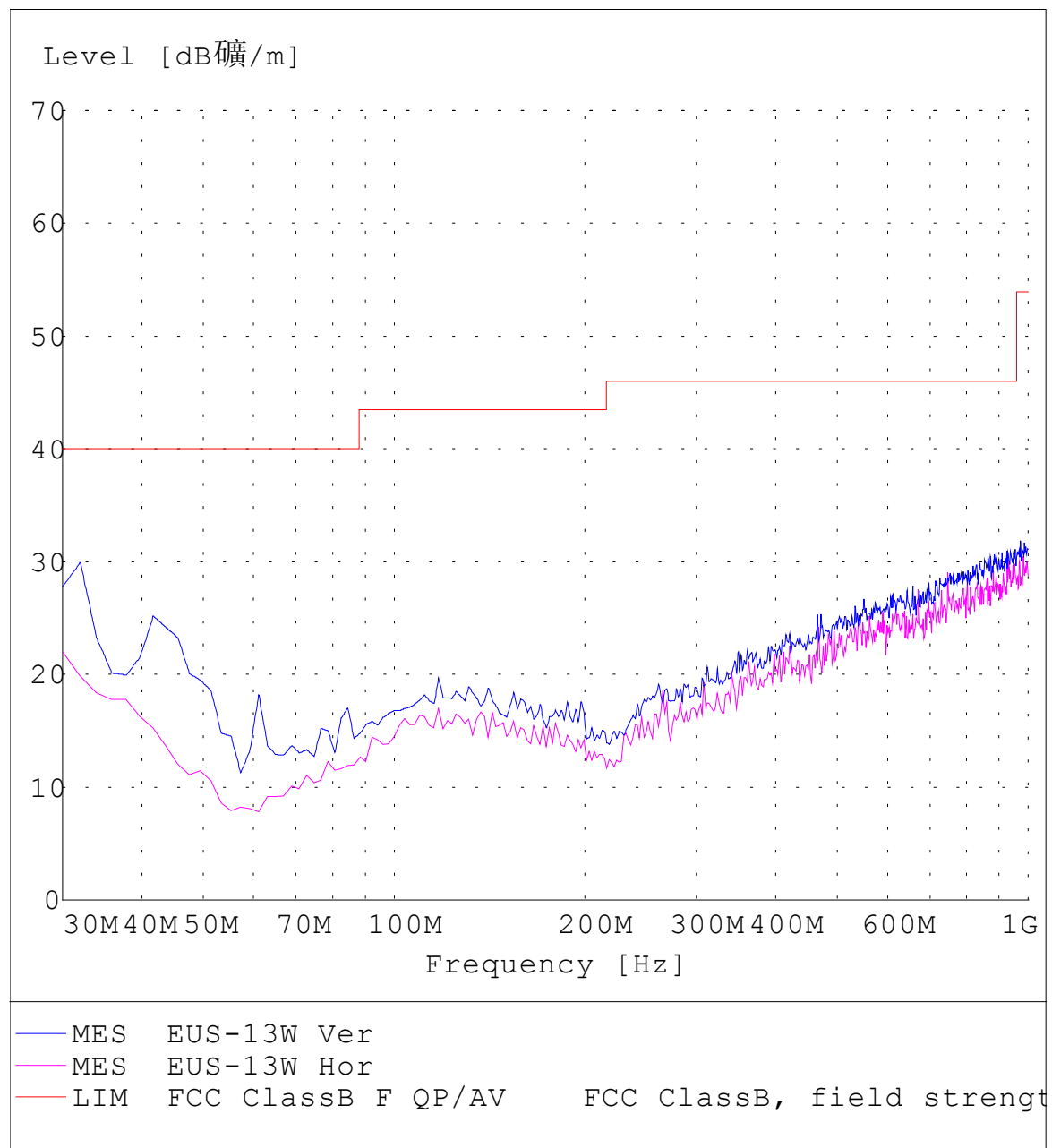
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-9W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

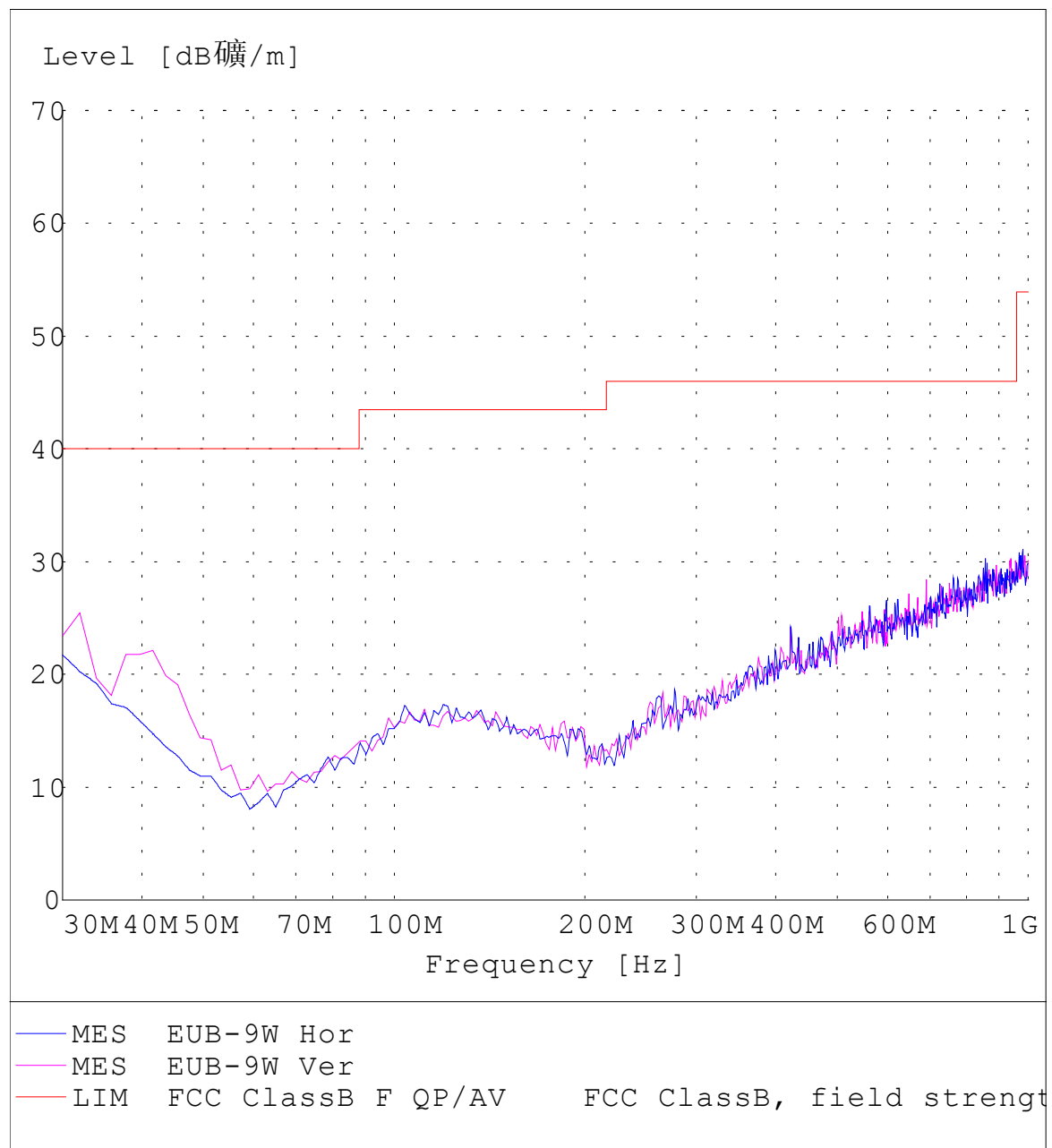
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-11W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

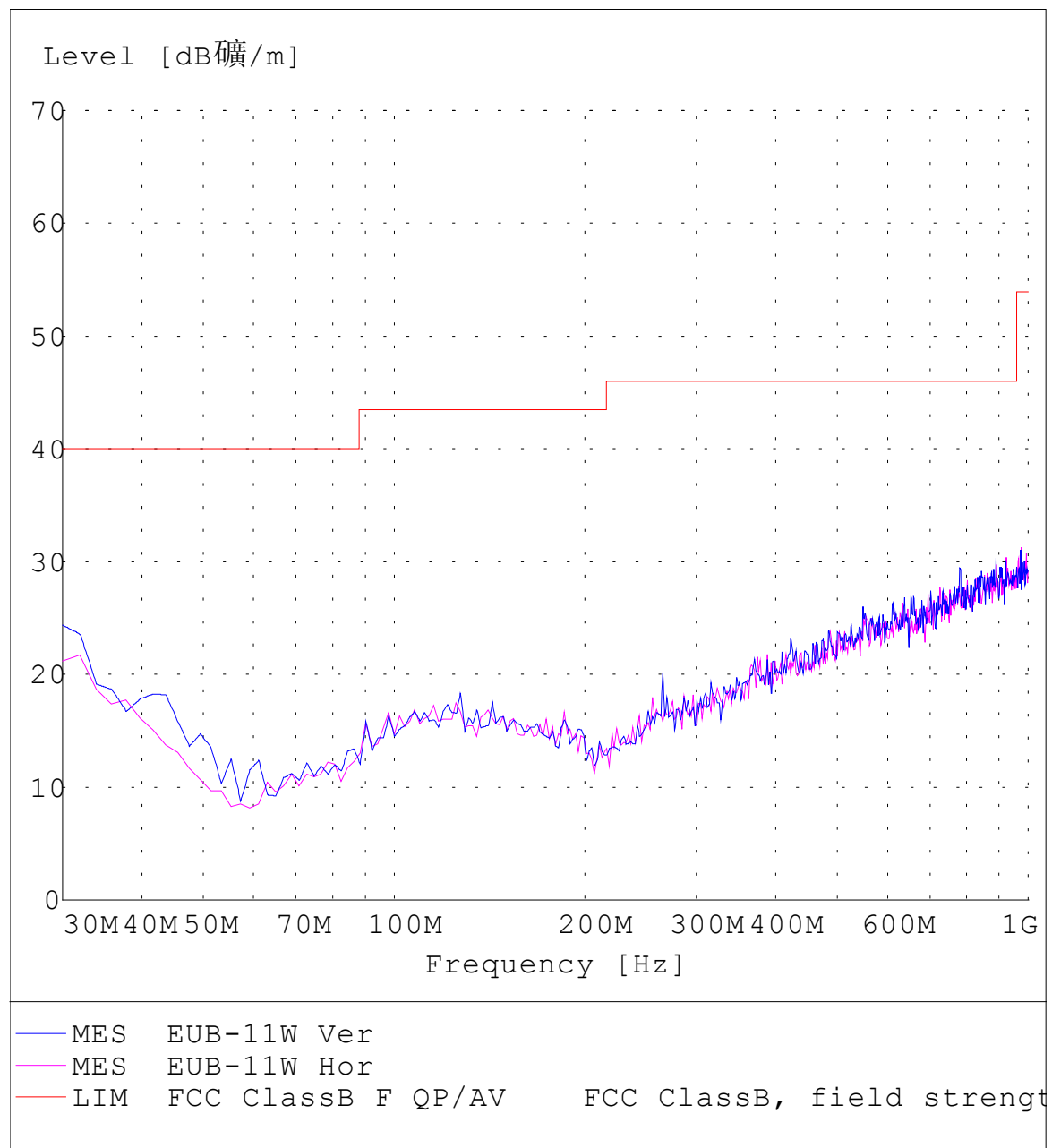
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-13W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

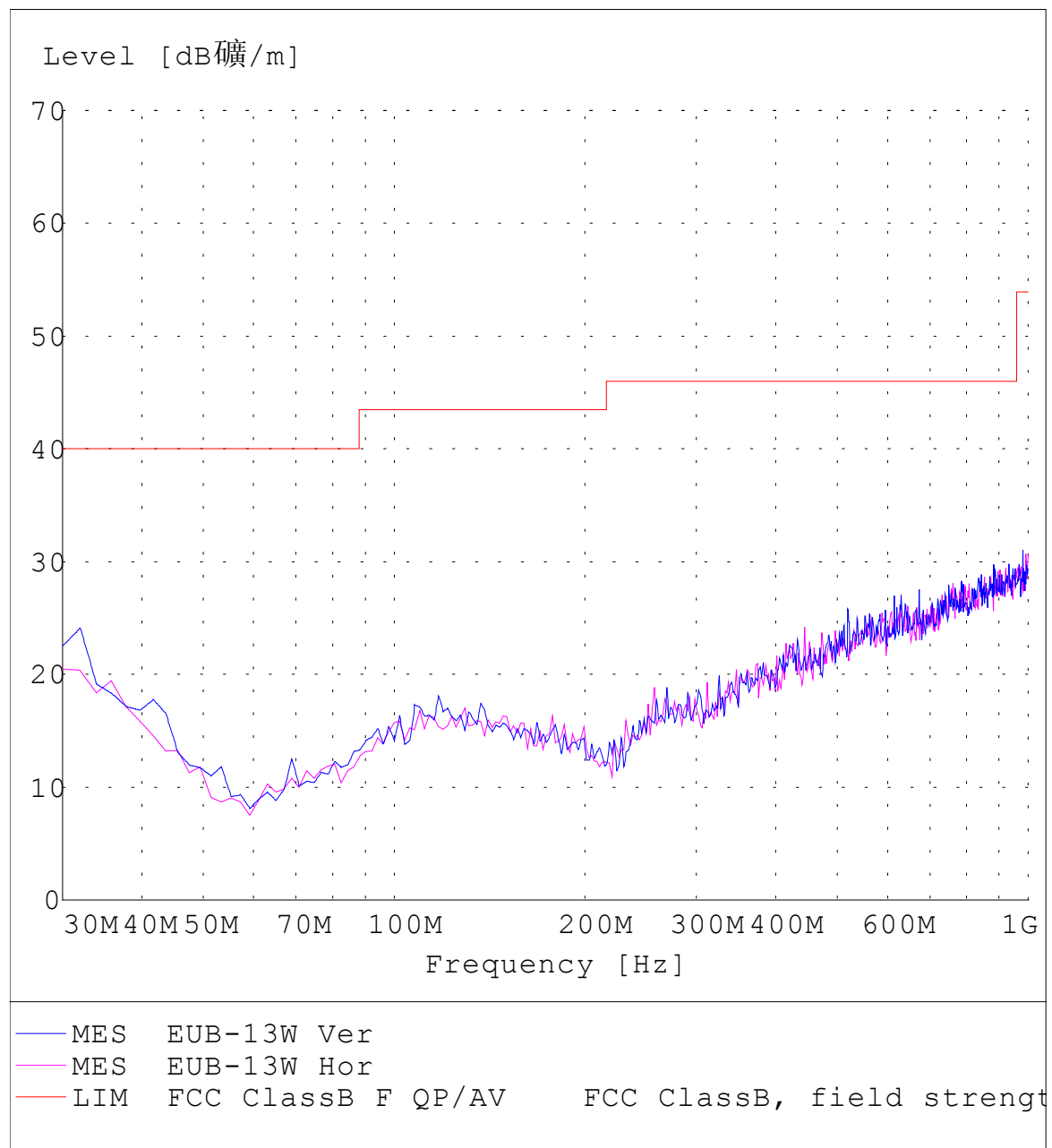
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



Radiated Emission**FCC Part 18**

EUT: Self-Ballasted Fluorescent Lamp M/N: EUB-15W

Manufacturer: Zhongshan Tianpeng Electronic Lighting and Communication Equipment Factory

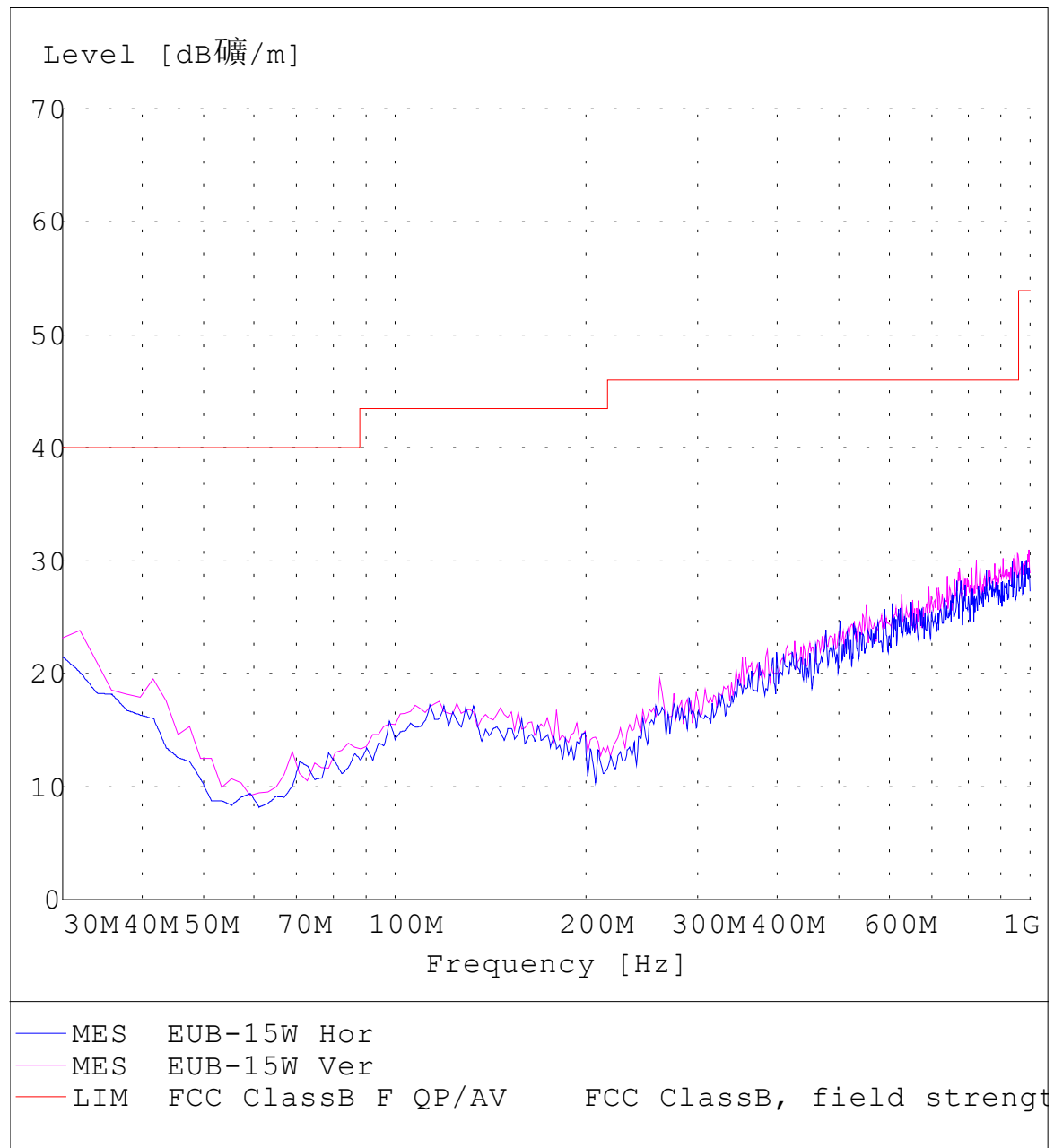
Operating Condition: Normal

Test Site: SMQ EMC Laboratory, SAC

Operator: Peter Lin

Test Specification: Vertical & Horizontal

Comment: 120V/60Hz



6. Photos of Testing

6.1 EUT Test Photographs

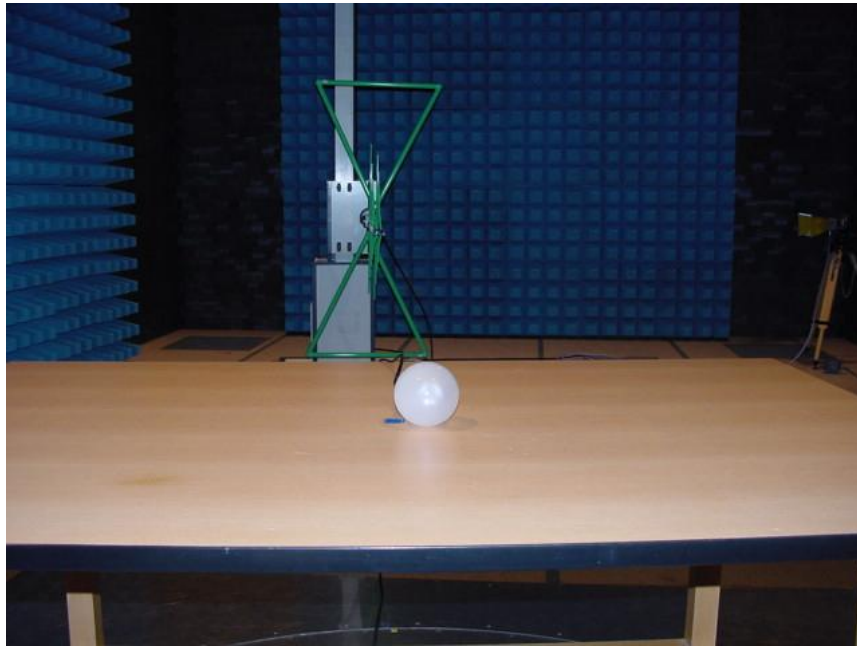
Conducted Emission Test View for EUS series



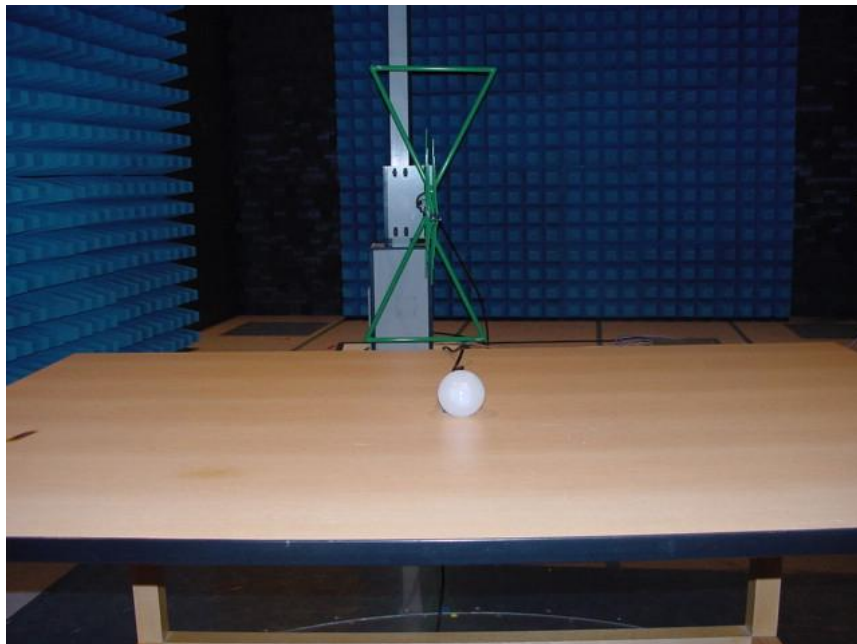
Conducted Emission Test View for EUB series



Radiated emission test view for EUS series



Radiated emission test view for EUB series



6. 2 EUT Detailed Photographs

7. FCC ID Label

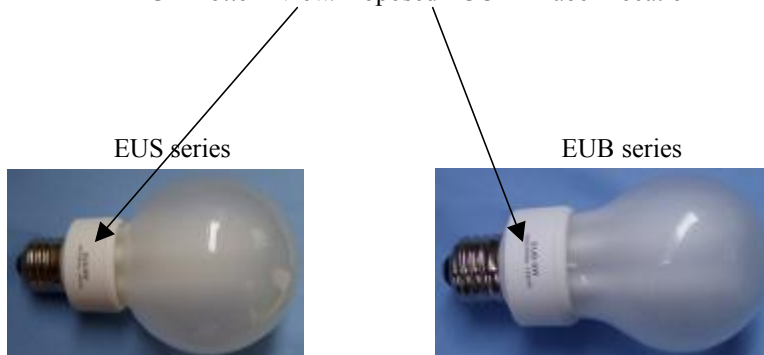
FCC ID: QXGEUSEUB

The Label shown shall be permanently affixed at a conspicuous location on the device and be readily visible to the user at the time of purchase.

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.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



8. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Date of Cal.	Due Date
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb27, 2002	Feb 27, 2003
AMN	Rohde & Schwarz	ESH3-Z5	100002	Feb 01, 2002	Feb 01, 2003
LISN	Kyoritsu	KNW-407	8-1441-8	Feb 23, 2002	Feb 23, 2003
EMI Test Receiver	Rohde & Schwarz	ESI26	838786/013	Feb 01, 2002	Feb 01, 2003
Bilog Antenna	Chase	CBL6112B	2591	Feb 01, 2002	Feb 01, 2003
Horn Antenna	Rohde & Schwarz	HF906	100014	Feb 01, 2002	Feb 01, 2003
3m Semi-Anechoic Chamber	Albatross Projects	9mX6mX6m	N/A	Feb 01, 2002	Feb 01, 2003