

# EMC TEST REPORT

|                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                         |
|--------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project No.</b>       | LBE20130348                    | <b>Issue No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                                                                                                                                                                                                       |
| <b>Applicant</b>         | <b>Name of organization</b>    | <b>Samsung Electronics Co., Ltd.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                         |
|                          | <b>Address</b>                 | 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si,<br>Gyeonggi-Do 443-742 Korea                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         |
|                          | <b>Date of application</b>     | January 11, 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                         |
| <b>EUT</b>               | <b>Type of device</b>          | Class B personal computers and peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         |
|                          | <b>Equipment authorization</b> | <input type="checkbox"/> Declaration of Conformity <input checked="" type="checkbox"/> Certification <input type="checkbox"/> Verification                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         |
|                          | <b>FCC ID</b>                  | <b>A3LSLM4025DW</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                         |
|                          | <b>Kind of product</b>         | <b>Mono Laser Print</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         |
|                          | <b>Model No.</b>               | <b>ProXpress M4025DW</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                         |
|                          |                                | <b>Variant Model No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ProXpress M3325ND / ProXpress M3320ND<br>ProXpress M3825D / ProXpress M3820D<br>ProXpress M3825ND / ProXpress M3820ND<br>ProXpress M3825DW / ProXpress M3820DW<br>ProXpress M4025ND / ProXpress M4020ND |
|                          | <b>Manufacturer</b>            | 1) SAMSUNG ELECTRONICS (SHANDONG) DIGITAL PRINTING CO.,LTD.(SSDP)<br>#264209,Samsung Road,Weihi Hi-Tech IDZ Shandong Province CHINA.<br>2) SAMSUNG ELECTRONICS SUZHOU COMPUTER CO.,LTD.(SESC)<br>NO. 318, Fangzhou Road, Suzhou Industrial Park Jiangsu Province,China.<br>3) Weihai Intops Electronics Co., Ltd.<br>Keji Road 268-1,Weihai city,Shandong Province,China.<br>4) Weihai Shin Heung Digital Electronics Co., Ltd.<br>98, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China. |                                                                                                                                                                                                         |
| <b>Applied Standards</b> |                                | FCC Part 15, Subpart B / ANSI C63.4-2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                         |
| <b>Test Period</b>       |                                | January 17, 2013 ~ January 31, 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                         |
| <b>Issue date</b>        |                                | February 7, 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                         |

## Test result : Complied

The equipment under test has found to be compliant with the applied standards.  
 The result is not applied the uncertainty concept.  
 This mean that the result is applied the original (standard) limit.  
 (Refer to the attached test result for more detail.)

**Tested by** : Sang Kyu Seo



**Reviewed by** : Tae Young Jang



The test results in this report only apply to the tested sample. This report must not be reproduced, except in full, without written permission from CS & Environment center.



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# 1. Report information

## 1.1 Revision history

| No.     | Revised detailed information                                  |
|---------|---------------------------------------------------------------|
| Issue 0 | There are no revisions and this version is basic test report. |

## 1.2 Sample calculation

### 1.2.1 Conducted disturbance (at 10 MHz)

- Class B limit = 60 dB $\mu$ V (Quasi-peak limit)
- Level (50 dB $\mu$ V) = Meter Reading (40.2 dB $\mu$ V) + factor ( 9.8 dB, AMN factor 9.7 dB + Cable loss 0.1 dB)
- Margin (10 dB) = Limit (60 dB $\mu$ V) – Level (50 dB $\mu$ V) = 10 dB below limit

### 1.2.2 Radiated disturbance (at 100 MHz)

- Class B limit = 30 dB $\mu$ V/m at 10 m
- Level (20 dB $\mu$ V/m)  
= Meter Reading (40 dB $\mu$ V) + factor (- 20 dB (1/m), antenna factor + cable loss – amplifier gain)
- Margin (10 dB) = Limit (30 dB $\mu$ V/m) – Level (20 dB $\mu$ V/m) = 10 dB below limit

# 2. Summary of test results

## 2.1 Emission

The EUT has been tested according to the following specifications:

| Applied                             | Test type                             | Applied standard                           | Result   |
|-------------------------------------|---------------------------------------|--------------------------------------------|----------|
| <input checked="" type="checkbox"/> | Conducted Disturbance<br>(Mains Port) | FCC Part 15 Subpart B<br>/ ANSI C63.4-2009 | Complied |
| <input checked="" type="checkbox"/> | Radiated Disturbance                  |                                            | Complied |

### 3. General Information

#### 3.1 Test facility

The CS & Environment center is located on Samsung Electronics Co., Ltd. at 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, South Korea.

All testing are performed in Semi-anechoic chambers conforming to the site attenuation Characteristics defined by ANSI C63.4, CISPR 22, 16-1 and 16-2. and Shielded rooms.

The CS & Environment center is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

### 4. Test Setup configuration

#### 4.1 Test Peripherals

The cables used for these peripherals are either permanently attached by the peripheral manufacturer or coupled with an assigned cable as defined below.

The following is a listing of the EUT and peripherals utilized during the performance of EMC test:

| Seq | Description      | Model No.         | Serial No.              | Manufacturer | Fcc ID / DoC |
|-----|------------------|-------------------|-------------------------|--------------|--------------|
| A   | Mono Laser Print | ProXpress M4025DW | -                       | Samsung      | EUT          |
| B   | PC               | NT-NC110P-PS S    | HR5793VBC00008B         | Samsung      | DoC          |
| C   | Adapter (For PC) | AD-9019S          | CNBA4400215ABZ049CB7144 | Delta        | DoC          |
| D   | USB Memory       | SDCZ36-004G       | -                       | SanDisk      | DoC          |
| E   | USB Memory       | ThumbDrive        | -                       | -            | DoC          |
| F   | Headset          | -                 | -                       | Actto        | DoC          |

## 4.2 EUT operating mode

To achieve compliance applied standard specification, the following mode(s) were made during compliance testing:

|                         |                  |
|-------------------------|------------------|
| <b>Operating Mode 1</b> | Stand By         |
| <b>Operating Mode 2</b> | Network Printing |
| <b>Operating Mode 3</b> | USB Printing     |

## 4.3 Details of Sampling

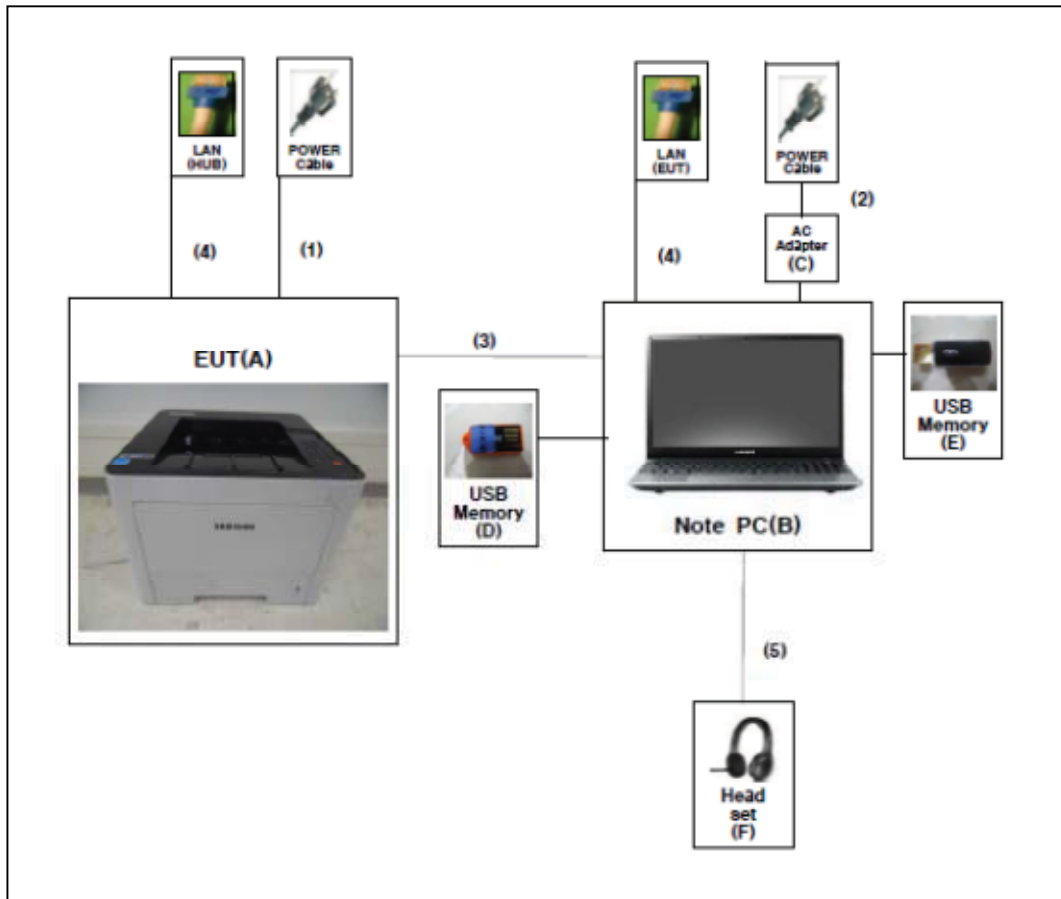
Customer selected, single unit.

## 4.4 Used cable description

The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The type(s) of interconnecting cables to be used and the interface port (of the EUT) to which these were connected;

| No. | Connected cable | Length [m] | Shielded [Y/N] | Note               |
|-----|-----------------|------------|----------------|--------------------|
| 1   | Power           | 1.8        | No             | For EUT            |
| 2   | Power           | 1.8        | No             | For PC             |
| 3   | USB             | 2.0        | Yes            | From EUT to PC     |
| 4   | LAN             | 2.0        | No             | From PC to HUB     |
| 5   | Audio           | 1.8        | No             | From PC to Headset |

## 4.5 Test arrangement



## 4.6 EUT Description

The following features describe EUT represented by this report:

| Item                         | Specification and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor                    | A1500 (600MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Standard System memory       | 128MB DDR3 (M33****, M38**** series)<br>256MB DDR3 (M40**** series)<br>Option 512MB DDR3 (except M38**D series)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Resolution                   | Pseudo 1200 dpi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Speed                        | ProXpress M33**** series 33ppm<br>ProXpress M38**** series 38ppm<br>ProXpress M40**** series 40ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Paper Handling               | Paper Tray(standard) 250 Sheets<br>SCF Tray(option) 520 Sheets<br>MP Tray 1 Sheet (M33**ND, M38**D series)<br>MP Tray 50 Sheets (M38**ND, M38**DW, M40**ND series)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power Rating                 | 110VAC ~ 127VAC, 6.5A, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Power Consumption            | Power save mode : 0.9 Watts<br>2.1 Watts (WI-FI model)<br>Stand by mode : 60 Watts<br>Printing simplex : 600 Watts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Printer Language             | SPL,PCL6,PS3,PCL5e, IBM Proprint, EPSON, KS, KSSM, PDF V1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Interfaces                   | USB2.0, Network, WI-FI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OS compatibility             | Window XP (32/64 bit) / 2003 Server (32/64 bit) / Vista (32/64 bit) / 2008 server (32/64 bit) / 7 (32/64 bit) / 2008 Server R2 / 8 (32/64bit)<br>Linux : RedHat Enterprise Linux WS 4, 5, 6 (32/64 bit) / Fedora 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 (32/64 bit) / OpenSuSE 10.2, 10.3, 11.0, 11.1, 11.2, 11.3, 11.4 (32/64 bit) / Mandriva 2007, 2008, 2009, 2009.1, 2010 (32/64 bit) / Ubuntu 6.06, 6.10, 7.04, 7.10, 8.04, 8.10, 9.04, 9.10, 10.04, 10.10, 11.04 (32/64 bit) / SuSE Linux Enterprise Desktop 10, 11 (32/64 bit) / Debian 4.0, 5.0, 6.0 (32/64 bit)<br>UNIX : Sun Solaris 9,10,11 (x86, SPARC) / HP-UX 11.0, 11i v1, 11i v2, 11i v3 (PA-RISC, Itanium) / IBM AIX 5.1, 5.2, 5.3, 5.4, 6.1, .7.1 (PowerPC)<br>Mac OS : X10.5~10.8<br>Citrix Presentation Server<br>Windows Terminal Services |
| Modes of Operation           | USB Printing, Network Printing , WI-FI Printing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intended Class for Emissions | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## 4.7 Clock Frequencies

| Kind of Clocks | Frequency[MHz] | Kind of Clocks | Frequency[MHz]        |
|----------------|----------------|----------------|-----------------------|
| Main Source    | 12             | Video          | 23.849 (33ppm, 38ppm) |
| CPU Internal   | 600            |                | 19.849 (40 ppm)       |
| DDR3           | 384            | USB Device     | 12                    |
| Ethernet       | 25             | -              | -                     |

## 4.8 Test configuration and condition

The system was configured for testing in typical fashion use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables.

The mode of operation utilized for testing was selected to best simulate typical EUT use.

Power source for the EUT operating was supplied by CVCF made by the Pacific Corp.

Two different types of SMPS, Dongyang, Liteon were applied during testing.

Each SMPS was installed for testing, tested and reported.

- Configuration 1 : Dongyang E&P SMPS was applied.

- Configuration 2 : LITEON SMPS was applied.

**- Test Voltage : AC 120 V, 60 Hz**

## 4.9 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4 and UKAS Lab 34.)

### 4.9.1 Emission

| Test type                                |               | Measurement uncertainty<br>(C.L. 95 %, k = 2) |
|------------------------------------------|---------------|-----------------------------------------------|
| Conducted disturbance                    | Main terminal | 2.90 dB                                       |
| Radiated Disturbance<br>(30 MHz ~ 1 GHz) | Horizontal    | 4.18 dB                                       |
|                                          | Vertical      | 4.47 dB                                       |
| Radiated Disturbance<br>(1 GHz ~ 6 GHz)  | Horizontal    | 3.06 dB                                       |
|                                          | Vertical      | 3.03 dB                                       |

## 5. Results of individual test

### 5.1 Conducted disturbance

Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

#### Limits for conducted disturbance at the mains ports of class B ITE

| Frequency range Limits<br>MHz                                                                              | Resolution Bandwidth | Limits dB $\mu$ V |          |
|------------------------------------------------------------------------------------------------------------|----------------------|-------------------|----------|
|                                                                                                            |                      | Quasi-peak        | Average  |
| 0.15 to 0.50                                                                                               | 9 kHz                | 66 to 56          | 56 to 46 |
| 0.50 to 5                                                                                                  | 9 kHz                | 56                | 46       |
| 5 to 30                                                                                                    | 9 kHz                | 60                | 50       |
| NOTE 1 The lower limit shall apply at the transition frequency                                             |                      |                   |          |
| NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. |                      |                   |          |

#### 5.1.1 Test instrumentation

| Test instrumentation | Model name | Manufacturer | Serial or Firmware<br>(No./Ver.) | Calibration |                     |
|----------------------|------------|--------------|----------------------------------|-------------|---------------------|
|                      |            |              |                                  | Date        | Interval<br>(Month) |
| Test Receiver        | R&S        | ESIB 26      | 100288                           | 2012-04-30  | 12                  |
| Two-Line V-Network   | R&S        | ENV216       | 100116                           | 2012-10-31  | 12                  |
| Two-Line V-Network   | R&S        | ESH3-Z5      | 847265/028                       | 2012-05-31  | 12                  |
| Test Software        | R&S        | EMC32        | Ver 5.20.2                       | -           | -                   |

#### 5.1.2 Temperature and humidity condition

|                   |                      |               |                   |              |      |
|-------------------|----------------------|---------------|-------------------|--------------|------|
| Test date         | January 29, 2013     | Test engineer |                   | Sang Kyu Seo |      |
| Climate condition | Ambient temperature  | 22.0 ℃        | Relative humidity |              | 32 % |
|                   | Atmospheric pressure | 102.1 kPa     |                   |              |      |
| Test place        | Shielded Room #1     |               |                   |              |      |

### 5.1.3 Photograph of Test Setup



Front



Rear

## 5.1.4 Test results (mains port)

### ■ Operating Mode 1.

#### - Stand By (Dong Yang SMPS)

#### Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

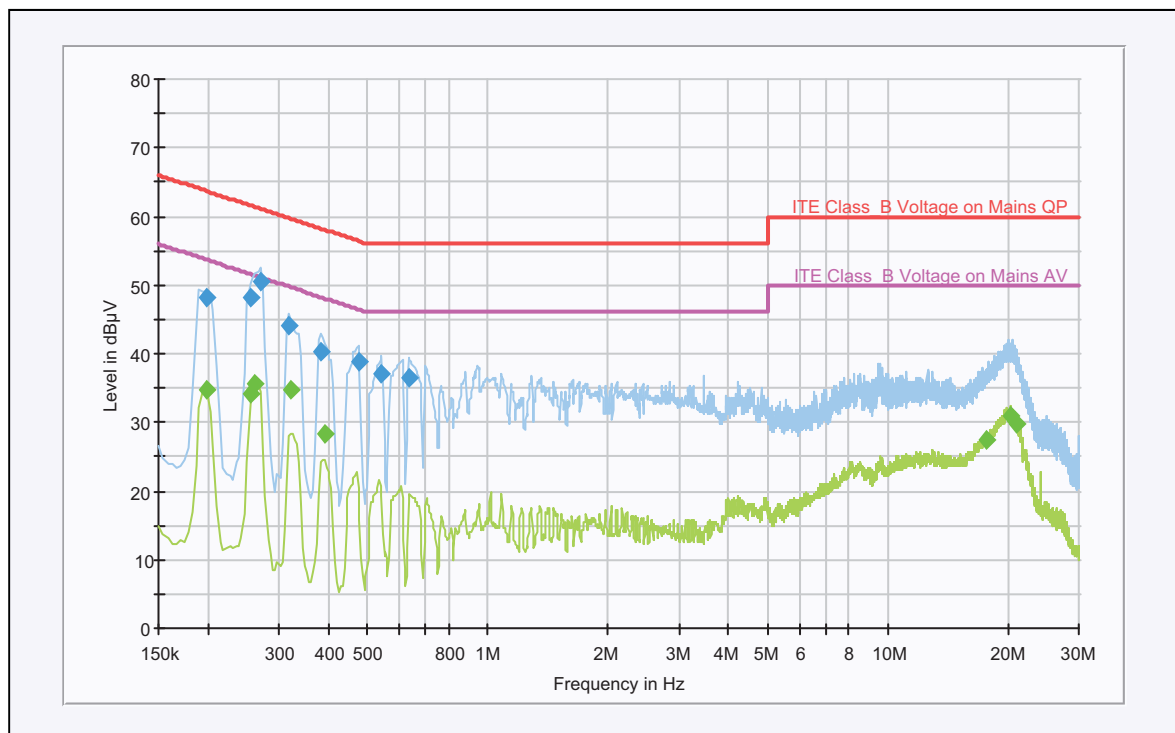
#### Scan Setup: B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange         | Detectors           | IF Bandwidth | Meas. Time | Receiver |
|------------------|---------------------|--------------|------------|----------|
| 150 kHz – 30 MHz | Quasi Peak; Average | 9 kHz        | 15 s       | ESIB     |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.198 000       | 48.1                    | L1   | 10.0       | 15.6        | 63.7               |
| 0.254 000       | 48.2                    | L1   | 10.0       | 13.4        | 61.6               |
| 0.270 000       | 50.4                    | L1   | 10.0       | 10.7        | 61.1               |
| 0.318 000       | 44.0                    | L1   | 10.1       | 15.8        | 59.8               |
| 0.382 000       | 40.4                    | L1   | 10.1       | 17.8        | 58.2               |
| 0.474 000       | 38.9                    | L1   | 10.1       | 17.5        | 56.4               |
| 0.542 000       | 37.0                    | L1   | 10.1       | 19.0        | 56.0               |
| 0.634 000       | 36.4                    | L1   | 10.1       | 19.6        | 56.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.198 000       | 34.7                 | L1   | 10.0       | 19.0        | 53.7               |
| 0.254 000       | 34.1                 | L1   | 10.0       | 17.5        | 51.6               |
| 0.262 000       | 35.7                 | L1   | 10.0       | 15.7        | 51.4               |
| 0.322 000       | 34.8                 | L1   | 10.1       | 14.9        | 49.7               |
| 0.390 000       | 28.3                 | L1   | 10.1       | 19.8        | 48.1               |
| 17.596 000      | 27.5                 | L1   | 10.1       | 22.5        | 50.0               |
| 20.344 000      | 30.8                 | N    | 10.2       | 19.2        | 50.0               |
| 21.080 000      | 29.8                 | L1   | 10.2       | 20.2        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

**- Stand By (LITEON SMPS)****Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

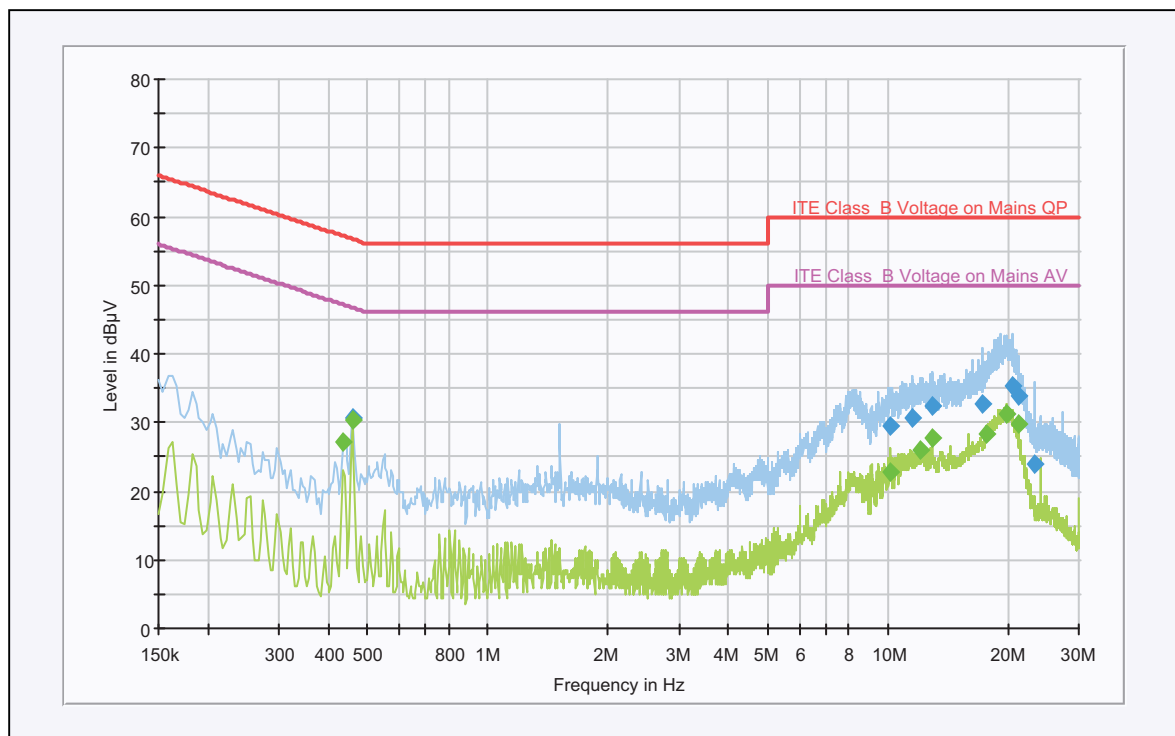
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

**Scan Setup: B\_ENV 2-Line-LISN fin [EMI conducted]**

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange         | Detectors           | IF Bandwidth | Meas. Time | Receiver |
|------------------|---------------------|--------------|------------|----------|
| 150 kHz – 30 MHz | Quasi Peak; Average | 9 kHz        | 15 s       | ESIB     |

**Test Graph**

Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.458 000       | 30.7                    | N    | 10.1       | 26.0        | 56.7               |
| 10.132 000      | 29.6                    | N    | 9.9        | 30.4        | 60.0               |
| 11.460 000      | 30.6                    | L1   | 9.9        | 29.4        | 60.0               |
| 12.868 000      | 32.4                    | L1   | 10.0       | 27.6        | 60.0               |
| 17.144 000      | 32.7                    | L1   | 10.1       | 27.3        | 60.0               |
| 20.552 000      | 35.3                    | N    | 10.2       | 24.7        | 60.0               |
| 21.104 000      | 34.0                    | N    | 10.3       | 26.0        | 60.0               |
| 23.396 000      | 23.9                    | L1   | 10.2       | 36.1        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.434 000       | 27.2                 | N    | 10.1       | 20.0        | 47.2               |
| 0.458 000       | 30.3                 | N    | 10.1       | 16.4        | 46.7               |
| 10.148 000      | 22.7                 | N    | 9.9        | 27.3        | 50.0               |
| 12.108 000      | 26.1                 | N    | 10.0       | 23.9        | 50.0               |
| 12.864 000      | 27.8                 | L1   | 10.0       | 22.2        | 50.0               |
| 17.636 000      | 28.2                 | L1   | 10.1       | 21.8        | 50.0               |
| 19.760 000      | 31.1                 | L1   | 10.2       | 18.9        | 50.0               |
| 21.104 000      | 29.9                 | L1   | 10.2       | 20.1        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

## ■ Operating Mode 2.

### - Network printing (Dong Yang SMPS)

#### Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

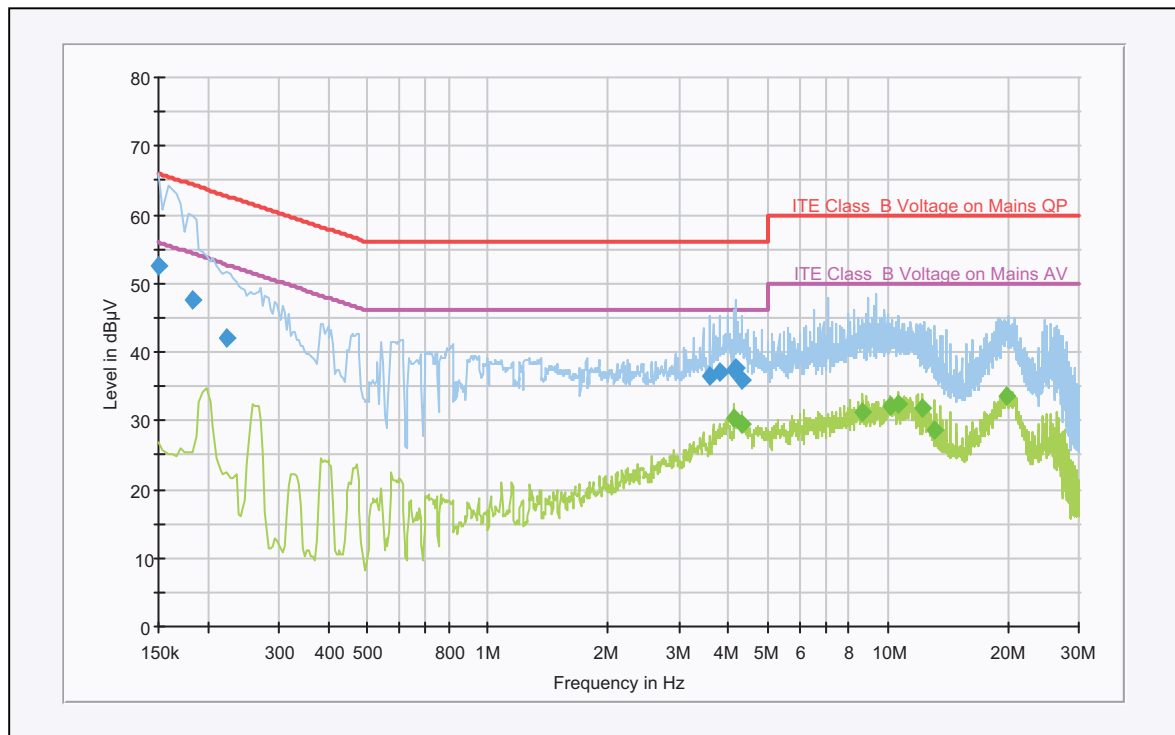
#### Scan Setup: B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange         | Detectors           | IF Bandwidth | Meas. Time | Receiver |
|------------------|---------------------|--------------|------------|----------|
| 150 kHz – 30 MHz | Quasi Peak; Average | 9 kHz        | 15 s       | ESIB     |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.150 000       | 52.6                    | L1   | 10.4       | 13.4        | 66.0               |
| 0.182 000       | 47.7                    | L1   | 10.2       | 16.7        | 64.4               |
| 0.222 000       | 42.2                    | L1   | 10.0       | 20.5        | 62.7               |
| 3.596 000       | 36.4                    | N    | 9.8        | 19.6        | 56.0               |
| 3.800 000       | 37.2                    | N    | 9.8        | 18.8        | 56.0               |
| 4.108 000       | 37.3                    | N    | 9.8        | 18.7        | 56.0               |
| 4.168 000       | 37.6                    | N    | 9.8        | 18.4        | 56.0               |
| 4.312 000       | 36.0                    | N    | 9.8        | 20.0        | 56.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 4.108 000       | 30.4                 | N    | 9.8        | 15.6        | 46.0               |
| 4.312 000       | 29.5                 | N    | 9.8        | 16.5        | 46.0               |
| 8.580 000       | 31.2                 | N    | 9.9        | 18.8        | 50.0               |
| 10.132 000      | 32.0                 | N    | 9.9        | 18.0        | 50.0               |
| 10.564 000      | 32.5                 | N    | 9.9        | 17.5        | 50.0               |
| 12.208 000      | 31.7                 | N    | 10.0       | 18.3        | 50.0               |
| 13.128 000      | 28.7                 | L1   | 10.0       | 21.3        | 50.0               |
| 19.732 000      | 33.6                 | L1   | 10.2       | 16.4        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

## - Network printing (LITEON SMPS)

### Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

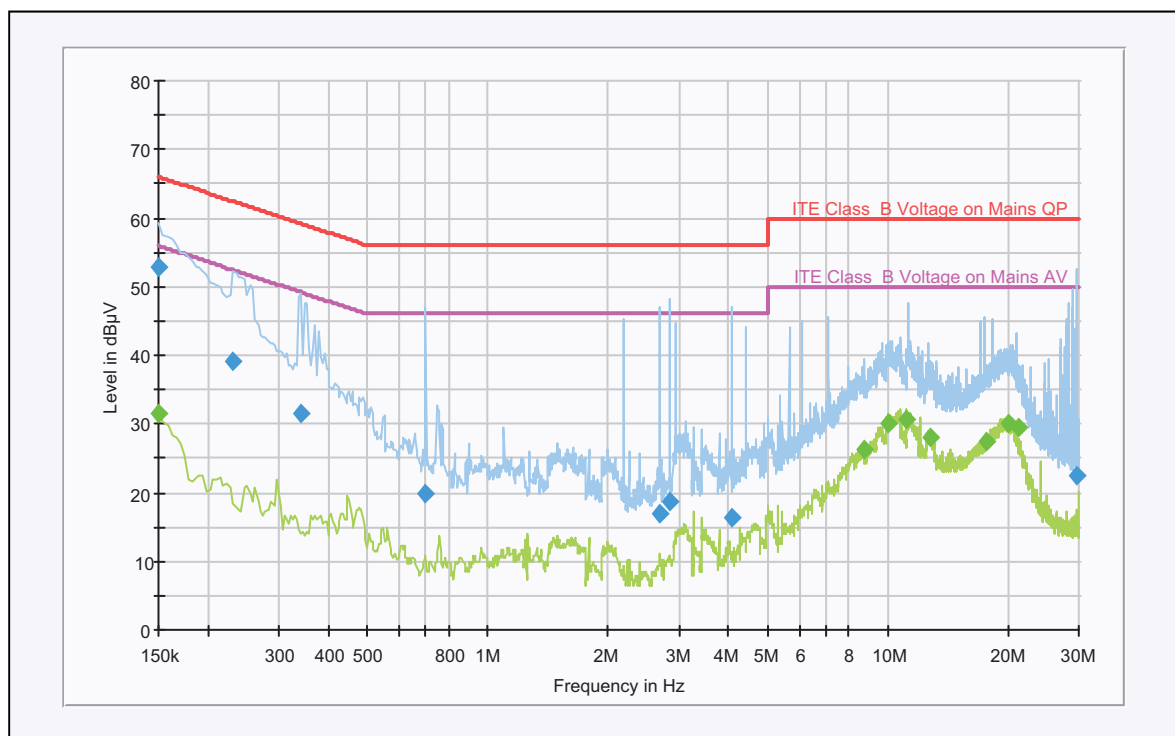
### Scan Setup: B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange         | Detectors           | IF Bandwidth | Meas. Time | Receiver |
|------------------|---------------------|--------------|------------|----------|
| 150 kHz – 30 MHz | Quasi Peak; Average | 9 kHz        | 15 s       | ESIB     |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.150 000       | 53.0                    | N    | 10.4       | 13.0        | 66.0               |
| 0.230 000       | 39.0                    | N    | 10.0       | 23.4        | 62.4               |
| 0.342 000       | 31.5                    | L1   | 10.1       | 27.7        | 59.2               |
| 0.698 000       | 19.9                    | N    | 10.1       | 36.1        | 56.0               |
| 2.696 000       | 16.9                    | N    | 9.8        | 39.1        | 56.0               |
| 2.844 000       | 18.7                    | N    | 9.8        | 37.3        | 56.0               |
| 4.056 000       | 16.3                    | L1   | 9.8        | 39.7        | 56.0               |
| 29.780 000      | 22.5                    | L1   | 10.4       | 37.5        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.150 000       | 31.6                 | L1   | 10.4       | 24.4        | 56.0               |
| 8.696 000       | 26.3                 | N    | 9.9        | 23.7        | 50.0               |
| 10.052 000      | 30.1                 | L1   | 9.9        | 19.9        | 50.0               |
| 11.160 000      | 30.6                 | L1   | 9.9        | 19.4        | 50.0               |
| 12.724 000      | 28.2                 | L1   | 10.0       | 21.8        | 50.0               |
| 17.628 000      | 27.6                 | L1   | 10.1       | 22.4        | 50.0               |
| 20.084 000      | 30.2                 | L1   | 10.2       | 19.8        | 50.0               |
| 21.112 000      | 29.4                 | L1   | 10.2       | 20.6        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) +  
Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

### ■ Operating Mode 3.

#### - USB Printing (Dong Yang SMPS)

#### Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

Transducer: ENV216 / Receiver-2-Line-LISN ENV216

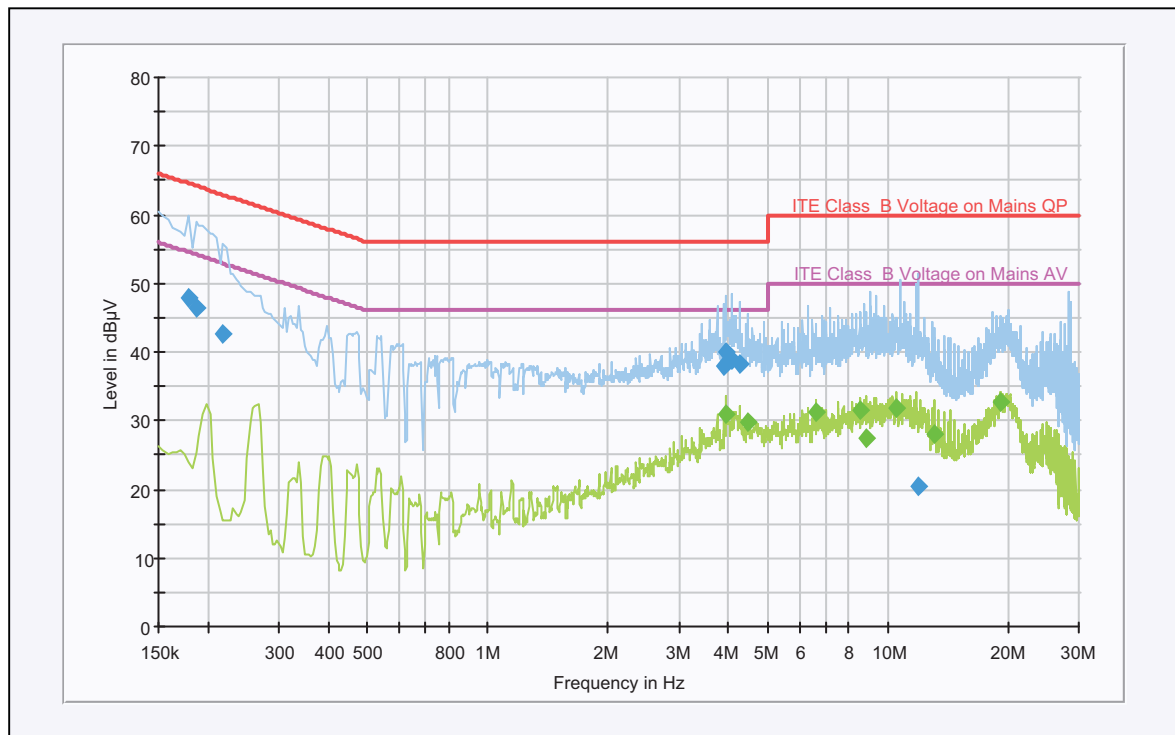
#### Scan Setup: B\_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange         | Detectors           | IF Bandwidth | Meas. Time | Receiver |
|------------------|---------------------|--------------|------------|----------|
| 150 kHz – 30 MHz | Quasi Peak; Average | 9 kHz        | 15 s       | ESIB     |

### Test Graph



Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.178 000       | 48.0                    | L1   | 10.2       | 16.6        | 64.6               |
| 0.186 000       | 46.5                    | L1   | 10.2       | 17.7        | 64.2               |
| 0.218 000       | 42.6                    | L1   | 10.0       | 20.3        | 62.9               |
| 3.892 000       | 37.8                    | N    | 9.8        | 18.2        | 56.0               |
| 3.932 000       | 40.0                    | N    | 9.8        | 16.0        | 56.0               |
| 4.080 000       | 38.8                    | N    | 9.8        | 17.2        | 56.0               |
| 4.252 000       | 38.1                    | N    | 9.8        | 17.9        | 56.0               |
| 11.964 000      | 20.4                    | N    | 10.0       | 39.6        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 3.932 000       | 31.0                 | N    | 9.8        | 15.0        | 46.0               |
| 4.448 000       | 29.8                 | N    | 9.8        | 16.2        | 46.0               |
| 6.640 000       | 31.1                 | N    | 9.8        | 18.9        | 50.0               |
| 8.532 000       | 31.6                 | N    | 9.9        | 18.4        | 50.0               |
| 8.848 000       | 27.5                 | N    | 9.9        | 22.5        | 50.0               |
| 10.464 000      | 32.0                 | N    | 9.9        | 18.0        | 50.0               |
| 13.008 000      | 28.2                 | L1   | 10.0       | 21.8        | 50.0               |
| 19.072 000      | 32.8                 | L1   | 10.1       | 17.2        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) + Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

**- USB Printing (LITEON SMPS)****Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

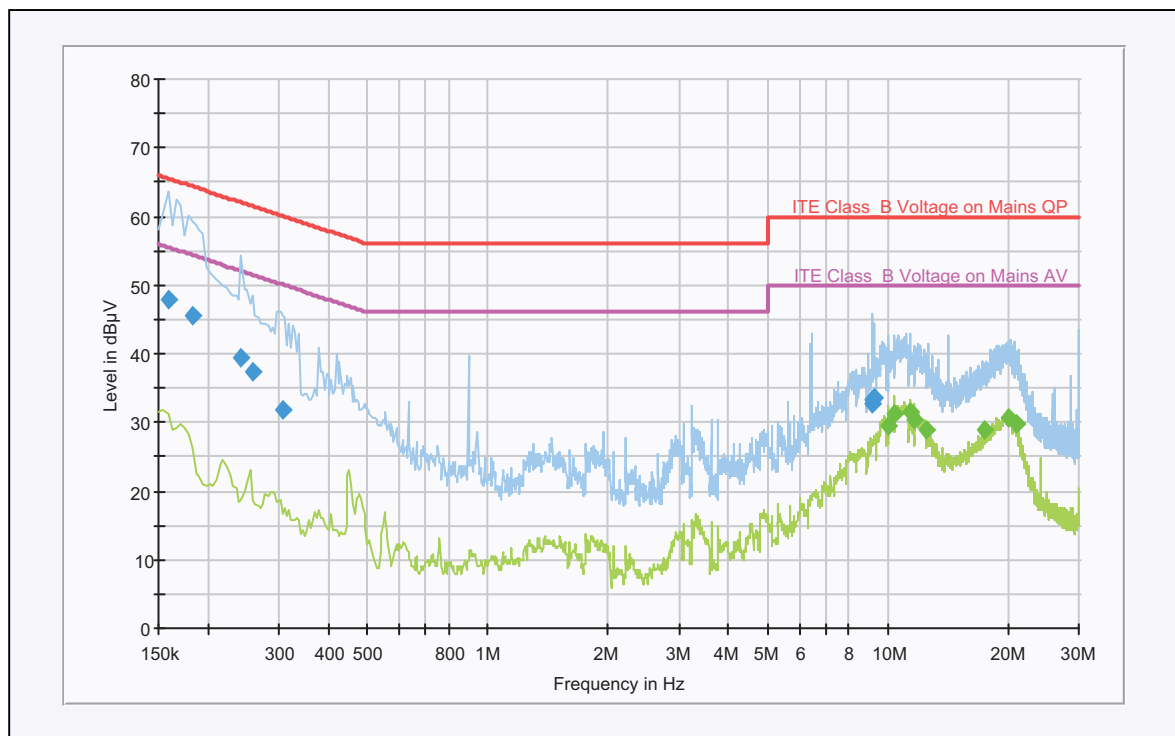
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

**Scan Setup: B\_ENV 2-Line-LISN fin [EMI conducted]**

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB  $\mu$  V

| Subrange         | Detectors           | IF Bandwidth | Meas. Time | Receiver |
|------------------|---------------------|--------------|------------|----------|
| 150 kHz – 30 MHz | Quasi Peak; Average | 9 kHz        | 15 s       | ESIB     |

**Test Graph**

Note) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

## Test Results ( Quasi-Peak and Average)

Quasi-peak final measurement results table

| Frequency (MHz) | Quasi-Peak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|------|------------|-------------|--------------------|
| 0.158 000       | 48.0                    | N    | 10.1       | 17.6        | 65.6               |
| 0.182 000       | 45.5                    | N    | 10.2       | 18.9        | 64.4               |
| 0.242 000       | 39.5                    | N    | 10.0       | 22.5        | 62.0               |
| 0.258 000       | 37.3                    | N    | 10.0       | 24.2        | 61.5               |
| 0.306 000       | 31.9                    | N    | 10.1       | 28.2        | 60.1               |
| 9.092 000       | 32.8                    | L1   | 9.9        | 27.2        | 60.0               |
| 9.164 000       | 33.2                    | L1   | 9.9        | 26.8        | 60.0               |
| 9.220 000       | 33.5                    | L1   | 9.9        | 26.5        | 60.0               |

Average final measurement results table

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 10.048 000      | 29.6                 | N    | 9.9        | 20.4        | 50.0               |
| 10.408 000      | 31.3                 | L1   | 9.9        | 18.7        | 50.0               |
| 11.328 000      | 31.5                 | L1   | 9.9        | 18.5        | 50.0               |
| 11.688 000      | 30.4                 | L1   | 10.0       | 19.6        | 50.0               |
| 12.416 000      | 28.9                 | L1   | 10.0       | 21.1        | 50.0               |
| 17.404 000      | 28.8                 | L1   | 10.1       | 21.2        | 50.0               |
| 19.996 000      | 30.7                 | L1   | 10.2       | 19.3        | 50.0               |
| 21.084 000      | 29.8                 | L1   | 10.2       | 20.2        | 50.0               |

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) + Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

## 5.2 Radiated disturbance

Of those disturbances above ( $L - 20\text{dB}$ ), where  $L$  is the limit level in logarithmic units, record at least the disturbance levels and the frequencies of the six highest disturbances.

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin.

All measurements were taken utilizing quasi-peak detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 10 m and elevated between 1 m and 4 m.

Both vertical and horizontal antenna polarizations were measured.

Above GHz, peak detector function mode was used with resolution bandwidth of 1 MHz and a video bandwidth of 1 MHz.

If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

### Limits for radiated disturbance of ITE at a measuring distance of 10 m

| Frequency range Limits<br>MHz                                                     | Resolution Bandwidth | Quasi-peak Limits dB $\mu$ V/m |
|-----------------------------------------------------------------------------------|----------------------|--------------------------------|
|                                                                                   |                      | Class B                        |
| 30 to 230                                                                         | 120 kHz              | 30                             |
| 230 to 1000                                                                       | 120 kHz              | 37                             |
| NOTE 1 The lower limit shall apply at the transition frequency                    |                      |                                |
| NOTE 2 Additional provisions may be required for cases where interference occurs. |                      |                                |

Peak measurements were made over the changeable frequency range 1 GHz to 5 GHz in accordance with internal maximum operating frequency at a measurement distance of 3 m for the following antenna and turntable arrangements:

| Antenna Height<br>( cm) | Antenna Polarisation | Turntable position<br>(degrees) |
|-------------------------|----------------------|---------------------------------|
| 100 ~ 400               | Horizontal, Vertical | Continuous                      |

Above 1 GHz, peak detector function mode is used with a resolution bandwidth of 1 MHz and a video bandwidth of 1 MHz.

**Limits for above 1GHz radiated disturbance of ITE at a measuring distance of 3 m**

| Class                                                                      | Limits - dB(μV/m) |         |
|----------------------------------------------------------------------------|-------------------|---------|
|                                                                            | Peak              | Average |
| B                                                                          | 74                | 54      |
| Average limit 500, $20 \log 500 = 53.979 \text{ dB} \approx 54 \text{ dB}$ |                   |         |

Antenna height was adjusted to maximum radiated position to be parallel from EUT to antenna centre.

Measurements within 20 dB of the limit were then maximized by adjusting turntable position.

Final measurements were made using a average detector.

Results checked manually; and points close to the limit line were re-measured.

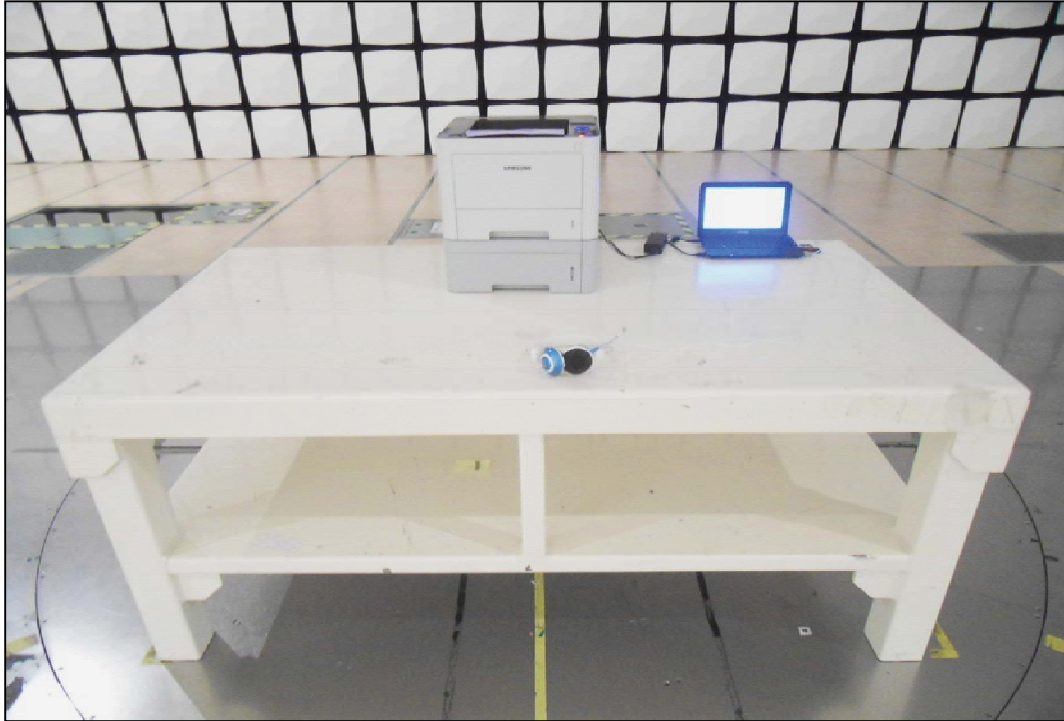
## 5.2.1 Test instrumentation

| Test instrumentation | Model name | Manufacturer | Serial or Firmware (No./Ver.) | Calibration |                  |
|----------------------|------------|--------------|-------------------------------|-------------|------------------|
|                      |            |              |                               | Date        | Interval (Month) |
| Bilog Antenna        | Schaffner  | CBL6112D     | 22248                         | 2012-02-16  | 24               |
| Bilog Antenna        | Schaffner  | CBL6112D     | 22604                         | 2012-04-19  | 24               |
| Test receiver        | R&S        | ESCI         | 100368                        | 2012-07-23  | 12               |
| Test Receiver        | R&S        | ESCI         | 100136                        | 2012-05-09  | 12               |
| Horn Antenna         | R&S        | HF907        | 100165                        | 2011-06-09  | 24               |
| Test receiver        | R&S        | ESIB-26      | 100287                        | 2012-04-30  | 12               |
| Pre-Amplifier        | R&S        | SCU 18       | 10001                         | 2012-05-11  | 12               |
| Amplifier            | Sonoma     | 310N         | 186467                        | 2012-11-01  | 12               |
| Amplifier            | Sonoma     | 310N         | 273121                        | 2012-11-14  | 12               |
| RF Selector          | TOYO       | NS4900       | -                             | -           | -                |
| Ant. Mast            | inn-co     | MA4000       | -                             | -           | -                |
| Ant. Mast            | inn-co     | MA4000       | -                             | -           | -                |
| Ant. Mast            | inn-co     | MA2000       | -                             | -           | -                |
| Mast Controller      | inn-co     | CO2000       | CO2000/544/2<br>3341109/L     | -           | -                |
| Test Software        | TOYO       | EP5/RE       | Ver 5.3.7                     | -           | -                |

## 5.2.2 Temperature and humidity condition

|                   |                                      |                   |                   |              |  |
|-------------------|--------------------------------------|-------------------|-------------------|--------------|--|
| Test date         | January 17, 2013<br>January 29, 2013 | Test engineer     |                   | Sang Kyu Seo |  |
| Climate condition | Ambient temperature                  | 21.9/22.1 °C      | Relative humidity | 49.0 / 45.0% |  |
|                   | Atmospheric pressure                 | 102.5 / 101.4 kPa | -                 |              |  |
| Test place        | 10 m Semi-Anechoic Chamber           |                   |                   |              |  |

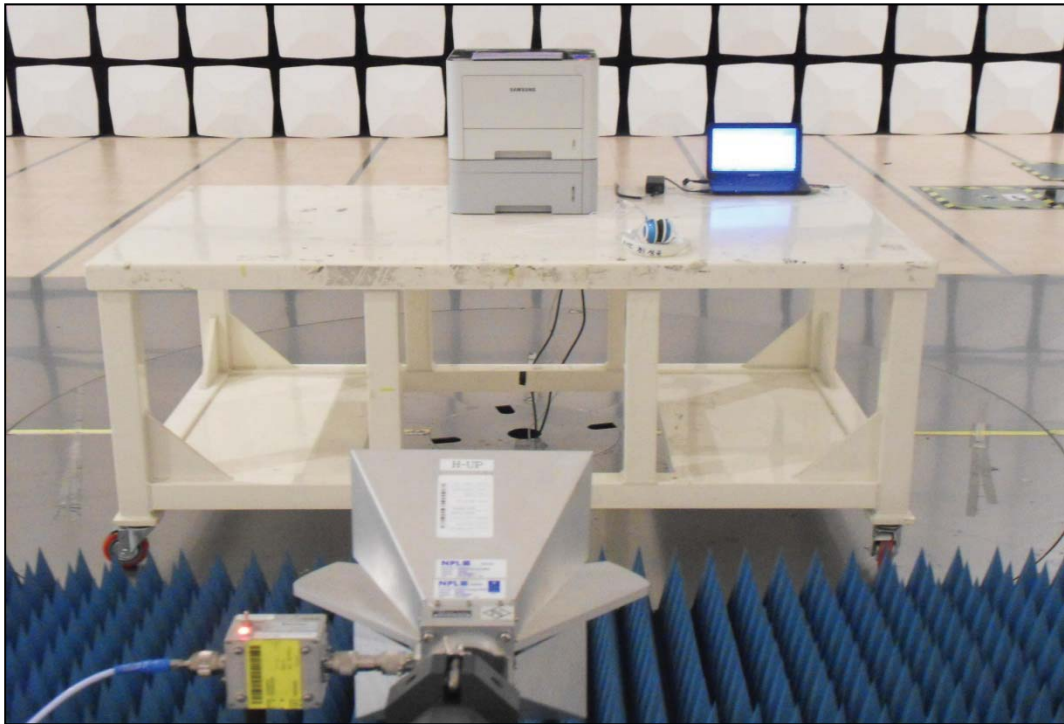
### 5.2.3 Photograph of Test Setup



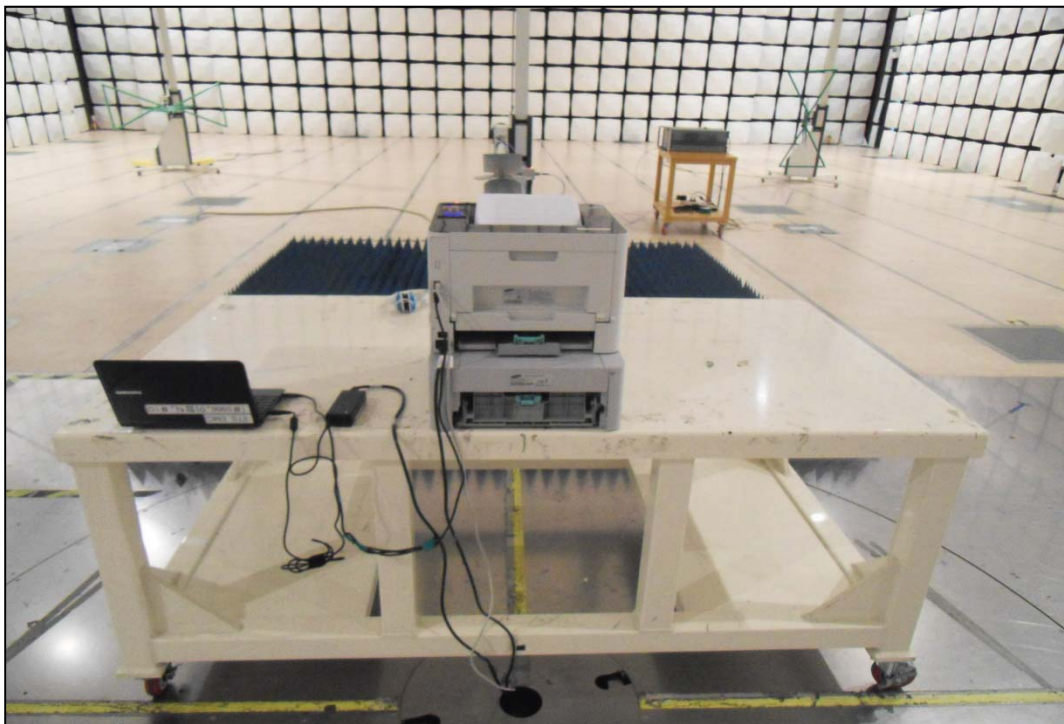
Front (Below 1GHz)



Rear (Below 1GHz)



**Front (above 1GHz)**



**Rear (above 1GHz)**

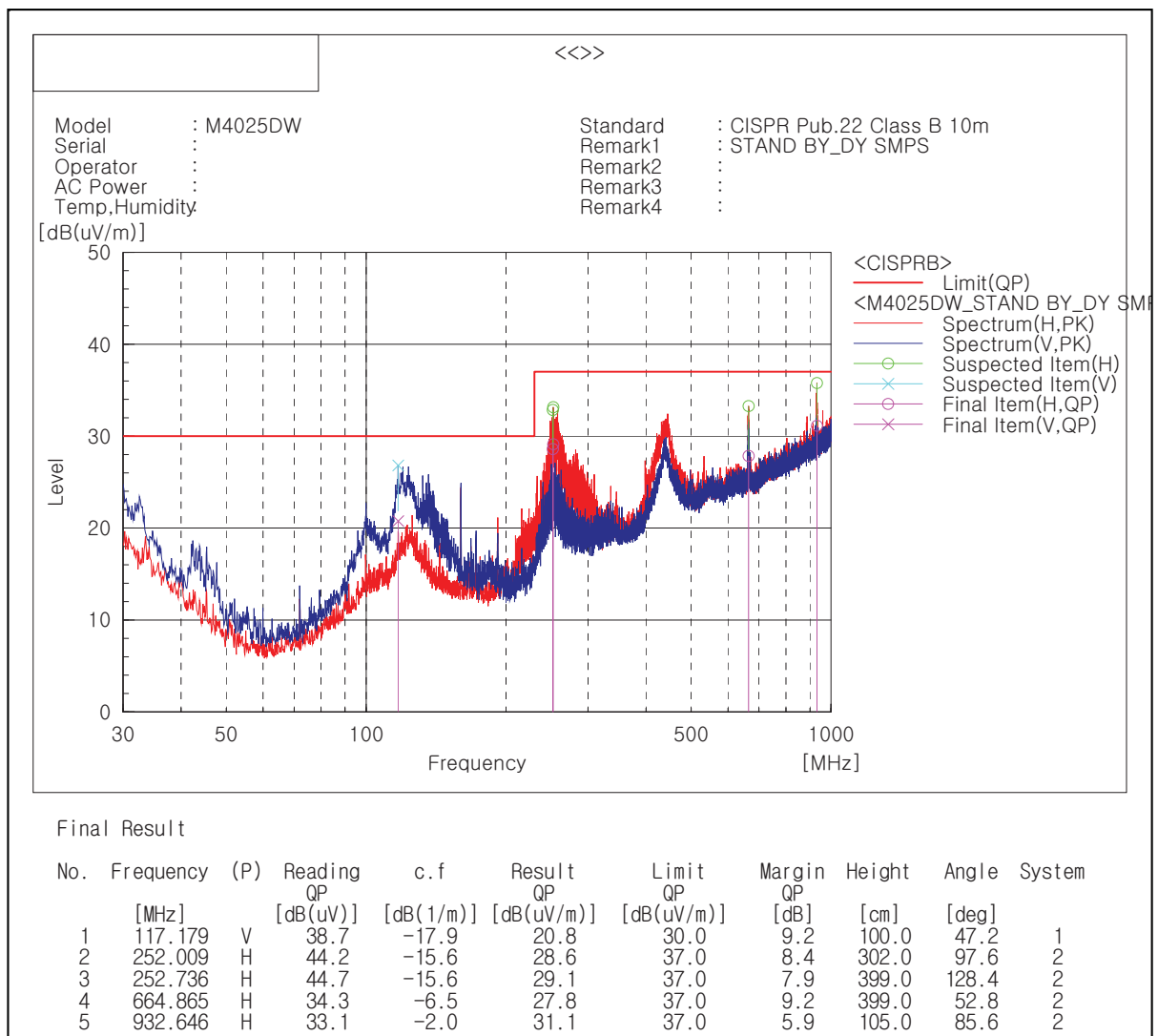
## 5.2.4 Test results

### 5.2.4.1 30 MHz to 1GHz test results

#### ■ Operating Mode 1.

#### - Stand By (Dong Yang SMPS)

#### Test Graph and Results

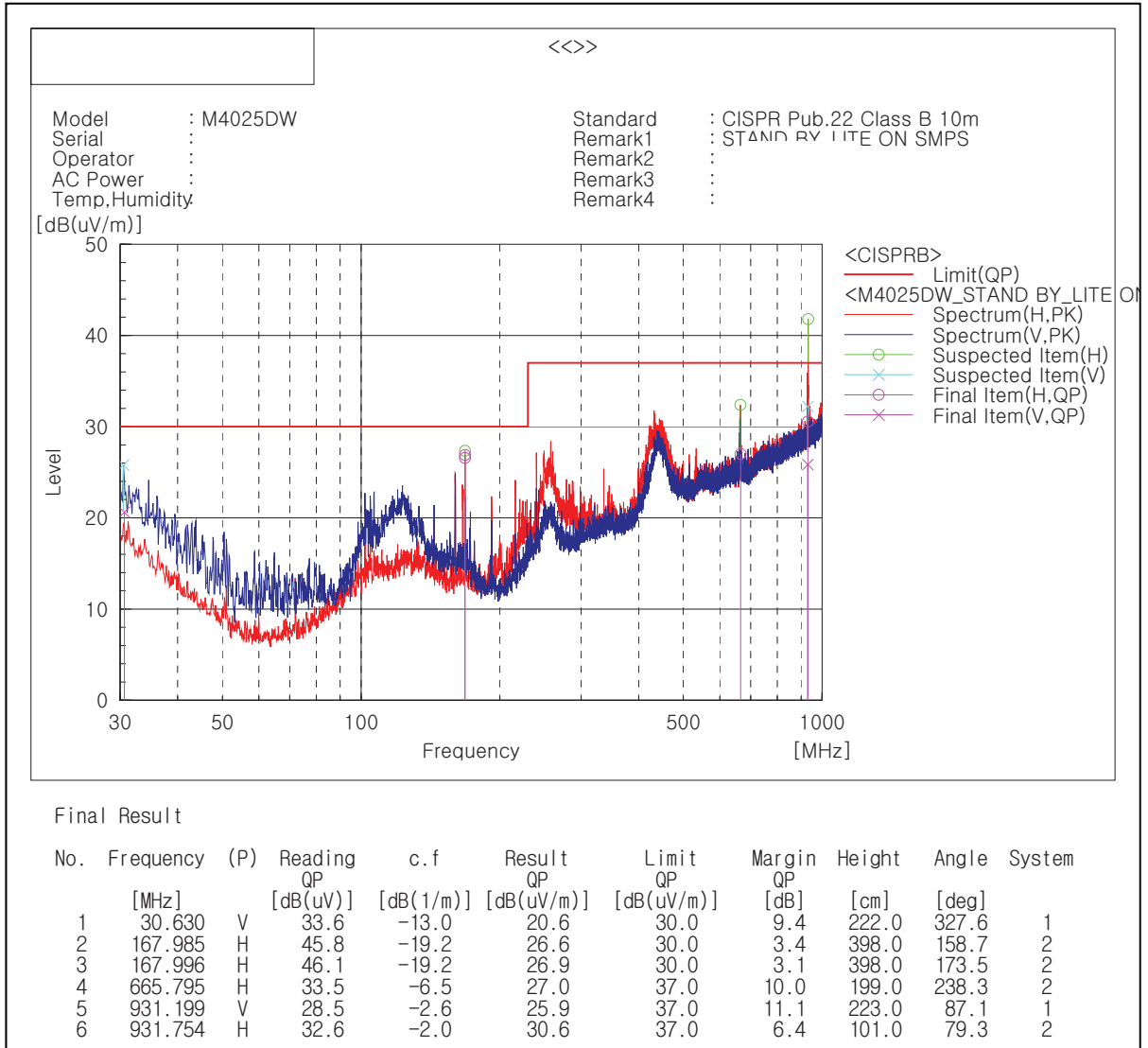


Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10 m, Antenna Height : 1 m to 4 m

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

**- Stand By (LITEON SMPS)****Test Graph and Results**

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10 m, Antenna Height : 1 m to 4 m

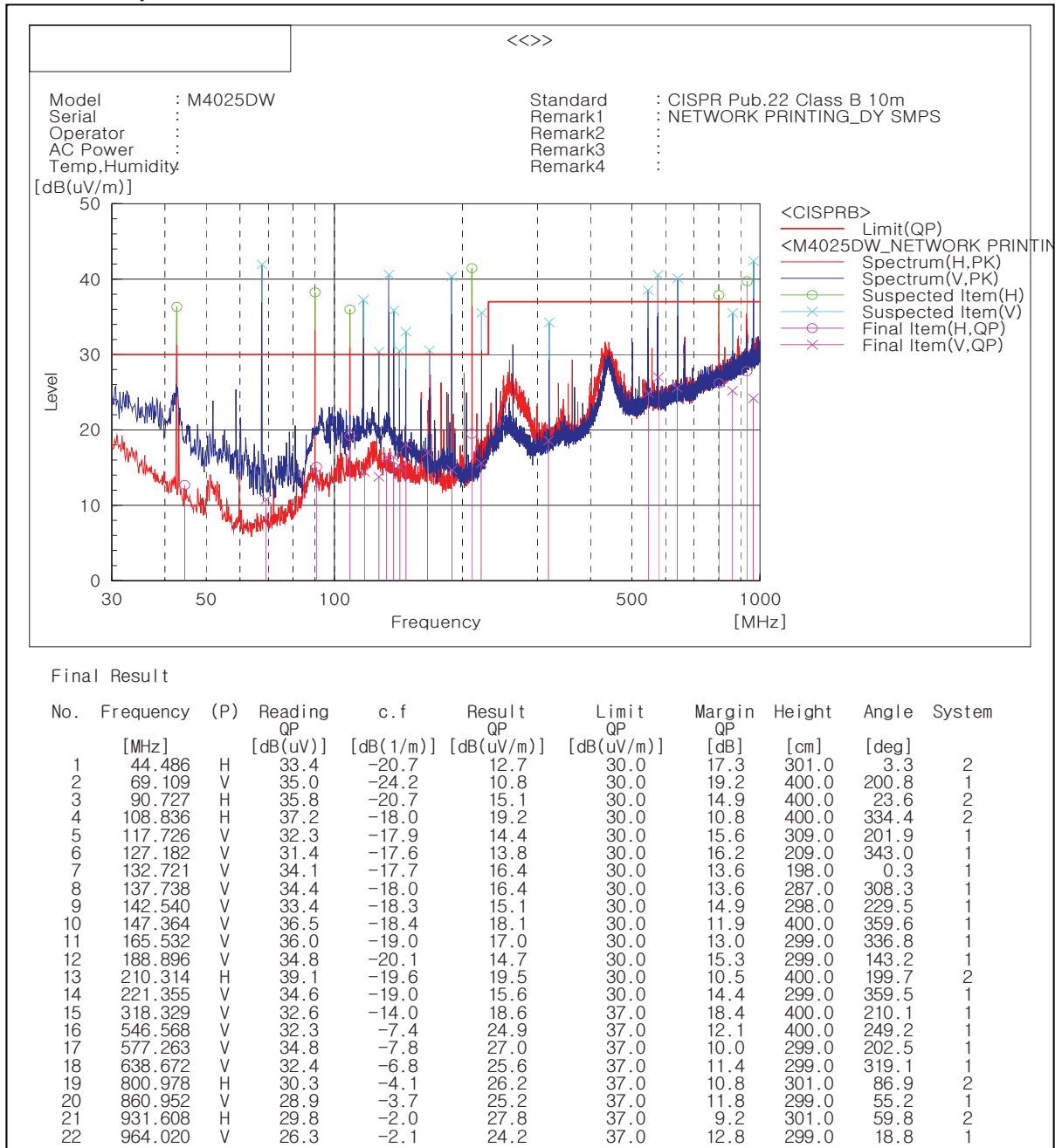
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

## ■ Operating Mode 2.

### - Network Printing (Dong Yang SMPS)

#### Test Graph and Results



Note) Receiving antenna polarization : Horizontal and/or Vertical

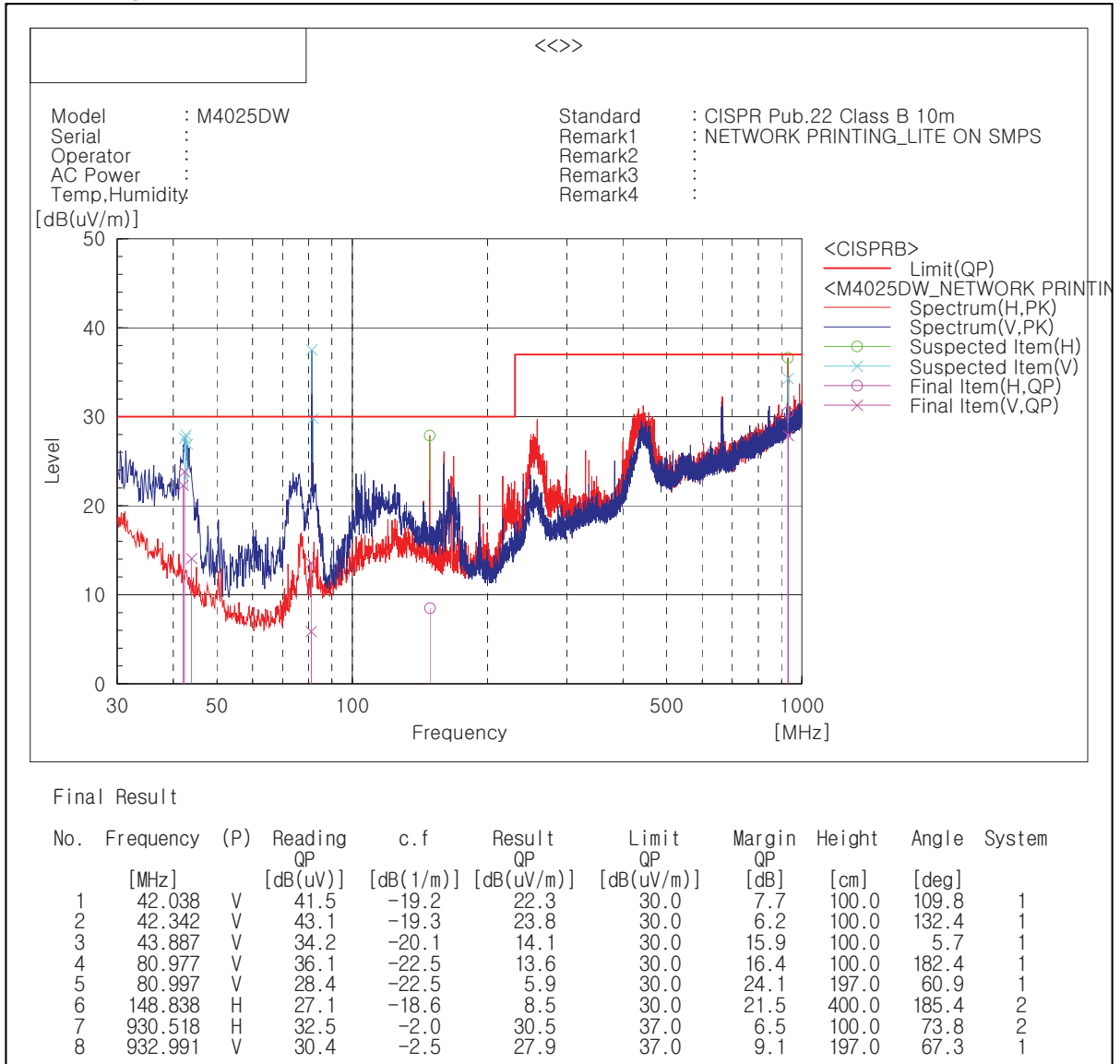
Test Distance : 10 m, Antenna Height : 1 m to 4 m

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

## - Network Printing (LITEON SMPS)

### Test Graph and Results



Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10 m, Antenna Height : 1 m to 4 m

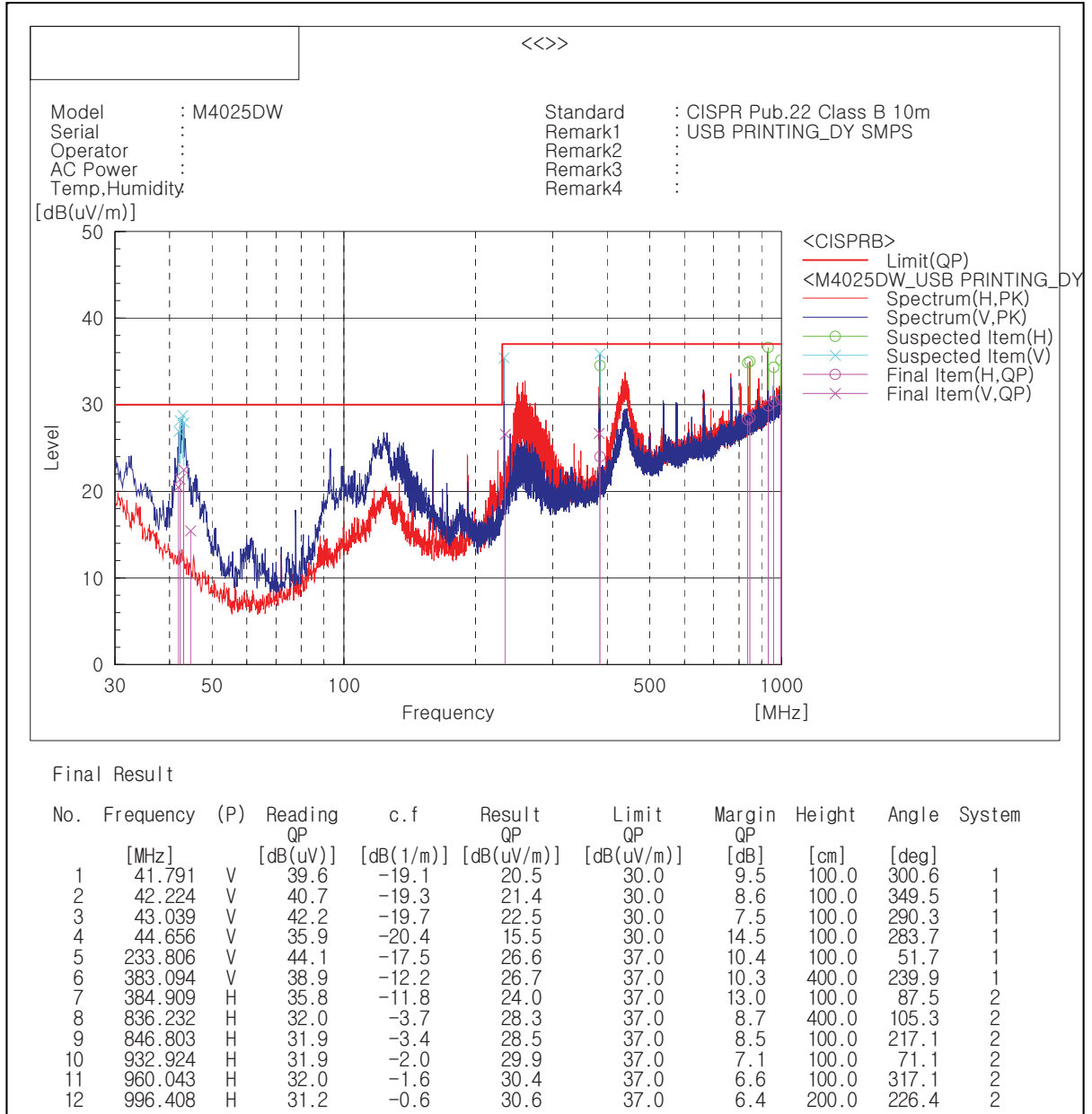
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

### ■ Operating Mode 3.

#### - USB Printing (Dong Yang SMPS)

#### Test Graph and Results



Note) Receiving antenna polarization : Horizontal and/or Vertical

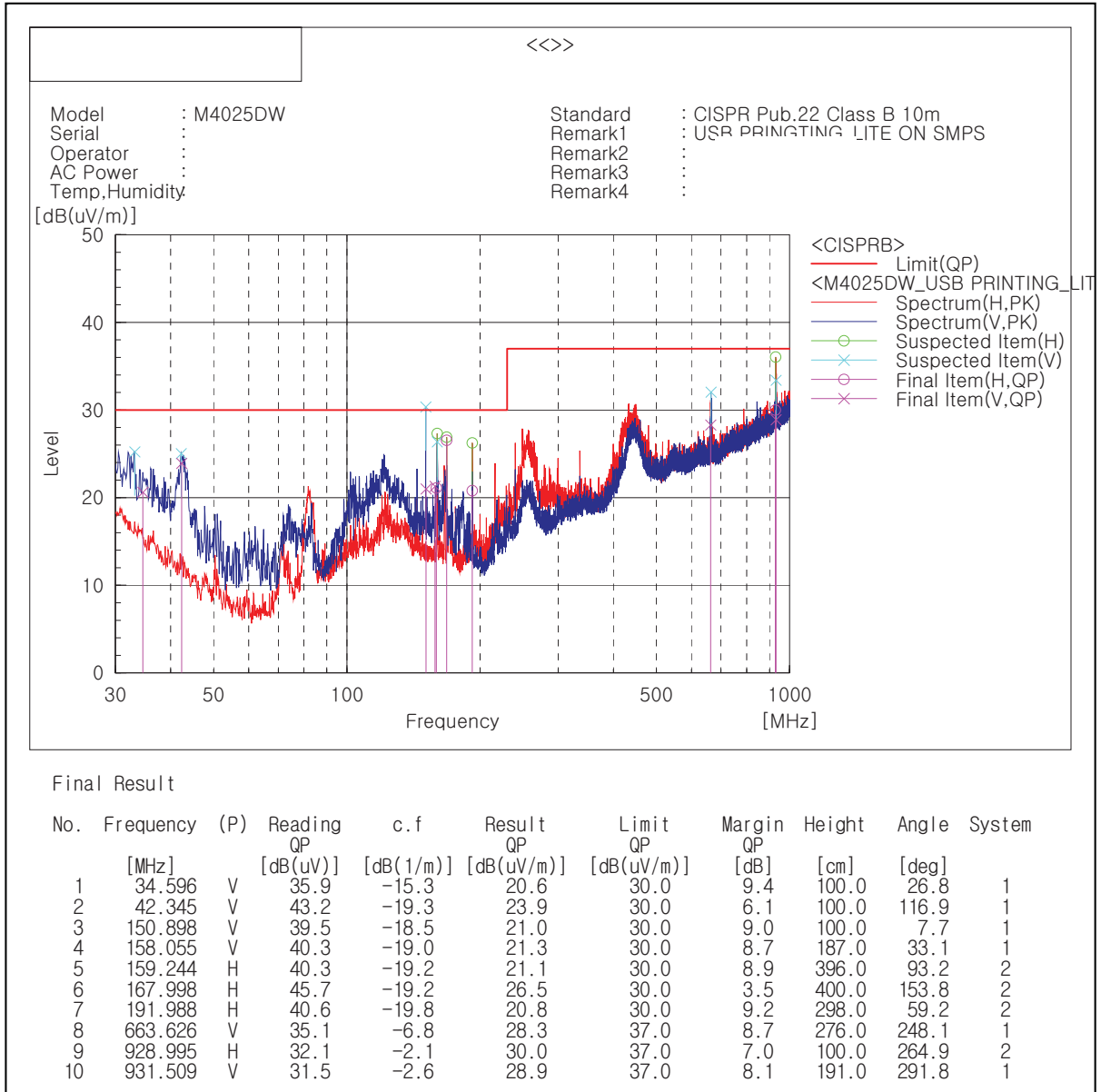
Test Distance : 10 m, Antenna Height : 1 m to 4 m

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

## - USB Printing (LITEON SMPS)

## Test Graph and Results



Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10 m, Antenna Height : 1 m to 4 m

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

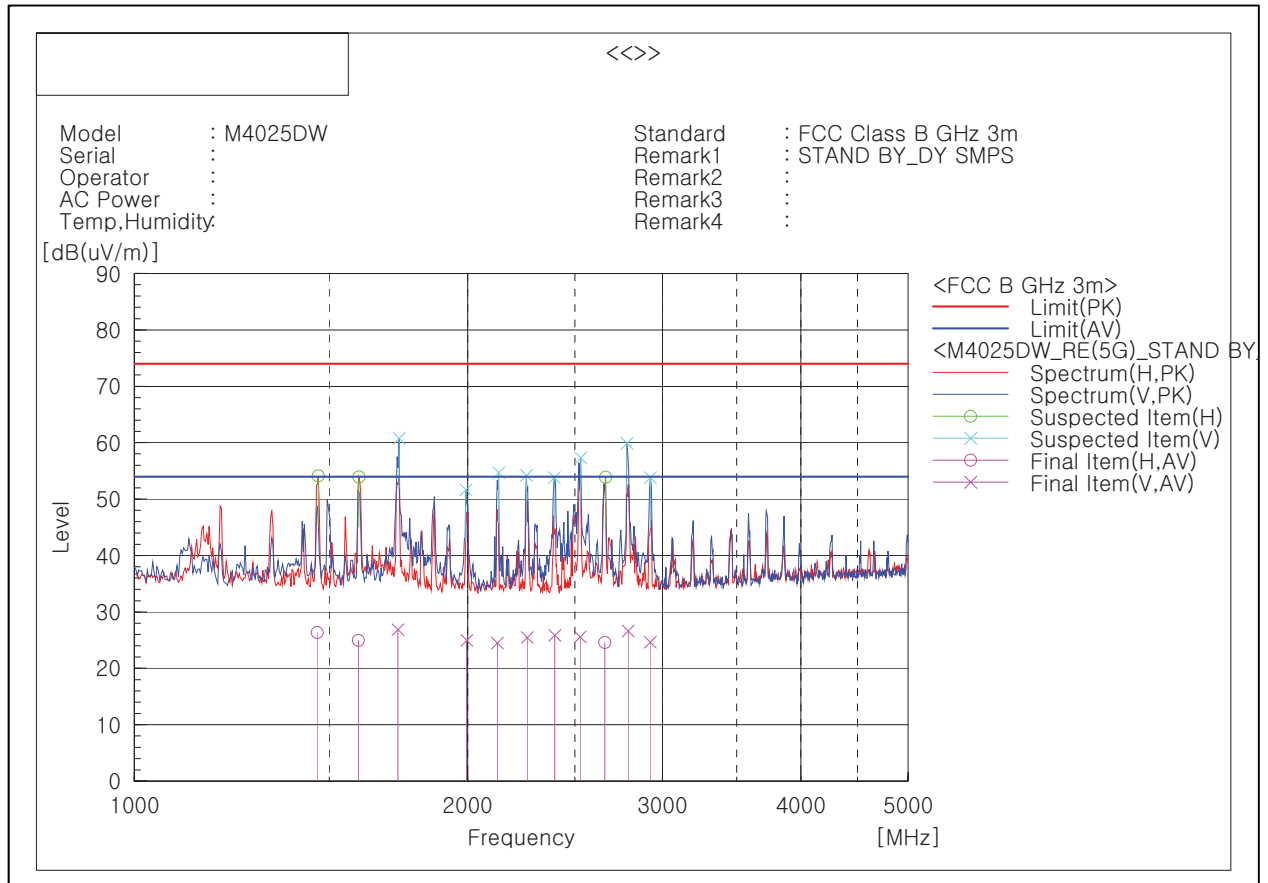
Margin QP (Quasi-Peak) = Limit - Level QP

### 5.2.4.2 1 GHz to 5 GHz test results

#### ■ Operating Mode 1.

#### - Stand By (Dong Yang SMPS)

#### Test Results



**Peak Measurement**

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1465.932        | H   | 65.4                | -11.3            | 54.1                | 74               | 19.9           | 107         | 321.5       |
| 1595.190        | H   | 64.1                | -10.2            | 53.9                | 74               | 20.1           | 107         | 338.7       |
| 1733.467        | V   | 70.6                | -9.8             | 60.8                | 74               | 13.2           | 107         | 355.7       |
| 1991.984        | V   | 60.2                | -8.5             | 51.7                | 74               | 22.3           | 107         | 330.1       |
| 2133.267        | V   | 62.9                | -8.2             | 54.7                | 74               | 19.3           | 107         | 338.8       |
| 2259.519        | V   | 62.2                | -8.0             | 54.2                | 74               | 19.8           | 107         | 352         |
| 2394.790        | V   | 61.8                | -7.9             | 53.9                | 74               | 20.1           | 107         | 4           |
| 2530.060        | V   | 64.8                | -7.5             | 57.3                | 74               | 16.7           | 107         | 348.2       |
| 2665.331        | H   | 61.1                | -7.2             | 53.9                | 74               | 20.1           | 107         | 351.8       |
| 2785.571        | V   | 66.7                | -6.8             | 59.9                | 74               | 14.1           | 107         | 344.3       |
| 2925.852        | V   | 60.2                | -6.3             | 53.9                | 74               | 20.1           | 107         | 341         |

**Average Measurement**

| Frequency [MHz] | POL | Reading AV [dB(uV)] | Factor [dB(1/m)] | Level AV [dB(uV/m)] | Limit [dB(uV/m)] | MarginAV [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|---------------|-------------|-------------|
| 1462.370        | H   | 37.7                | -11.3            | 26.4                | 54               | 27.6          | 107         | 322         |
| 1593.341        | H   | 35.3                | -10.3            | 25.0                | 54               | 29.0          | 107         | 339.1       |
| 1729.995        | V   | 36.7                | -9.8             | 26.9                | 54               | 27.1          | 107         | 355.8       |
| 1995.636        | V   | 33.5                | -8.5             | 25.0                | 54               | 29.0          | 107         | 330.1       |
| 2126.789        | V   | 32.7                | -8.2             | 24.5                | 54               | 29.5          | 107         | 339.1       |
| 2263.863        | V   | 33.5                | -8.0             | 25.5                | 54               | 28.5          | 107         | 351.7       |
| 2397.330        | V   | 33.7                | -7.9             | 25.8                | 54               | 28.2          | 107         | 4.2         |
| 2526.929        | V   | 33.1                | -7.5             | 25.6                | 54               | 28.4          | 107         | 347.9       |
| 2659.996        | H   | 31.8                | -7.2             | 24.6                | 54               | 29.4          | 107         | 351.8       |
| 2793.061        | V   | 33.3                | -6.7             | 26.6                | 54               | 27.4          | 107         | 344.7       |
| 2924.074        | V   | 31.0                | -6.3             | 24.7                | 54               | 29.3          | 107         | 341         |

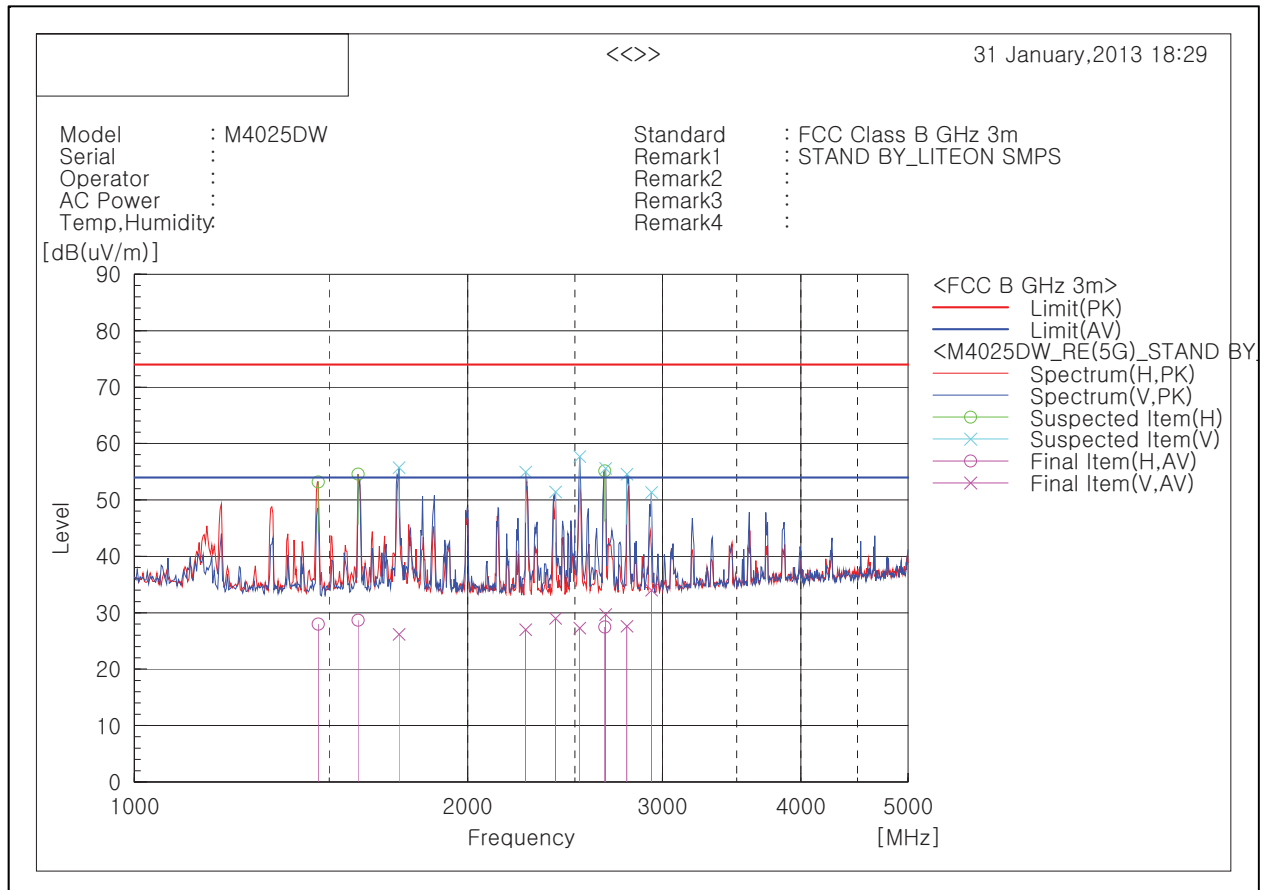
Note ) Receiving antenna polarization : Horizontal and Vertical

Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

**- Stand By (LITEON SMPS)****Test Results**

**Peak Measurement**

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1465.932        | H   | 64.5                | -11.3            | 53.2                | 74               | 20.8           | 107         | 307.8       |
| 1592.184        | H   | 64.9                | -10.3            | 54.6                | 74               | 19.4           | 107         | 7.2         |
| 1733.467        | V   | 65.6                | -9.8             | 55.8                | 74               | 18.2           | 107         | 350.2       |
| 2256.513        | V   | 63.0                | -8.0             | 55.0                | 74               | 19.0           | 107         | 350.2       |
| 2400.802        | V   | 59.4                | -7.9             | 51.5                | 74               | 22.5           | 107         | 341.3       |
| 2525.050        | V   | 65.3                | -7.6             | 57.7                | 74               | 16.3           | 107         | 9.8         |
| 2660.321        | H   | 62.3                | -7.2             | 55.1                | 74               | 18.9           | 107         | 355.4       |
| 2665.331        | V   | 62.8                | -7.2             | 55.6                | 74               | 18.4           | 107         | 18.6        |
| 2785.571        | V   | 61.4                | -6.8             | 54.6                | 74               | 19.4           | 107         | 357.8       |
| 2930.862        | V   | 57.6                | -6.3             | 51.3                | 74               | 22.7           | 107         | 359.5       |

**Average Measurement**

| Frequency [MHz] | POL | Reading AV [dB(uV)] | Factor [dB(1/m)] | Level AV [dB(uV/m)] | Limit [dB(uV/m)] | MarginAV [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|---------------|-------------|-------------|
| 1465.932        | H   | 39.3                | -11.3            | 28.0                | 54               | 26.0          | 107         | 307.8       |
| 1592.184        | H   | 39.0                | -10.3            | 28.7                | 54               | 25.3          | 107         | 7.2         |
| 1733.467        | V   | 36.0                | -9.8             | 26.2                | 54               | 27.8          | 107         | 350.2       |
| 2256.513        | V   | 35.0                | -8.0             | 27.0                | 54               | 27.0          | 107         | 350.2       |
| 2400.802        | V   | 36.9                | -7.9             | 29.0                | 54               | 25.0          | 107         | 341.3       |
| 2525.050        | V   | 34.9                | -7.6             | 27.3                | 54               | 26.7          | 107         | 9.8         |
| 2660.321        | H   | 34.7                | -7.2             | 27.5                | 54               | 26.5          | 107         | 355.4       |
| 2665.331        | V   | 36.9                | -7.2             | 29.7                | 54               | 24.3          | 107         | 18.6        |
| 2785.571        | V   | 34.4                | -6.8             | 27.6                | 54               | 26.4          | 107         | 357.8       |
| 2930.862        | V   | 40.3                | -6.3             | 34.0                | 54               | 20.0          | 107         | 359.5       |

Note ) Receiving antenna polarization : Horizontal and Vertical

Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

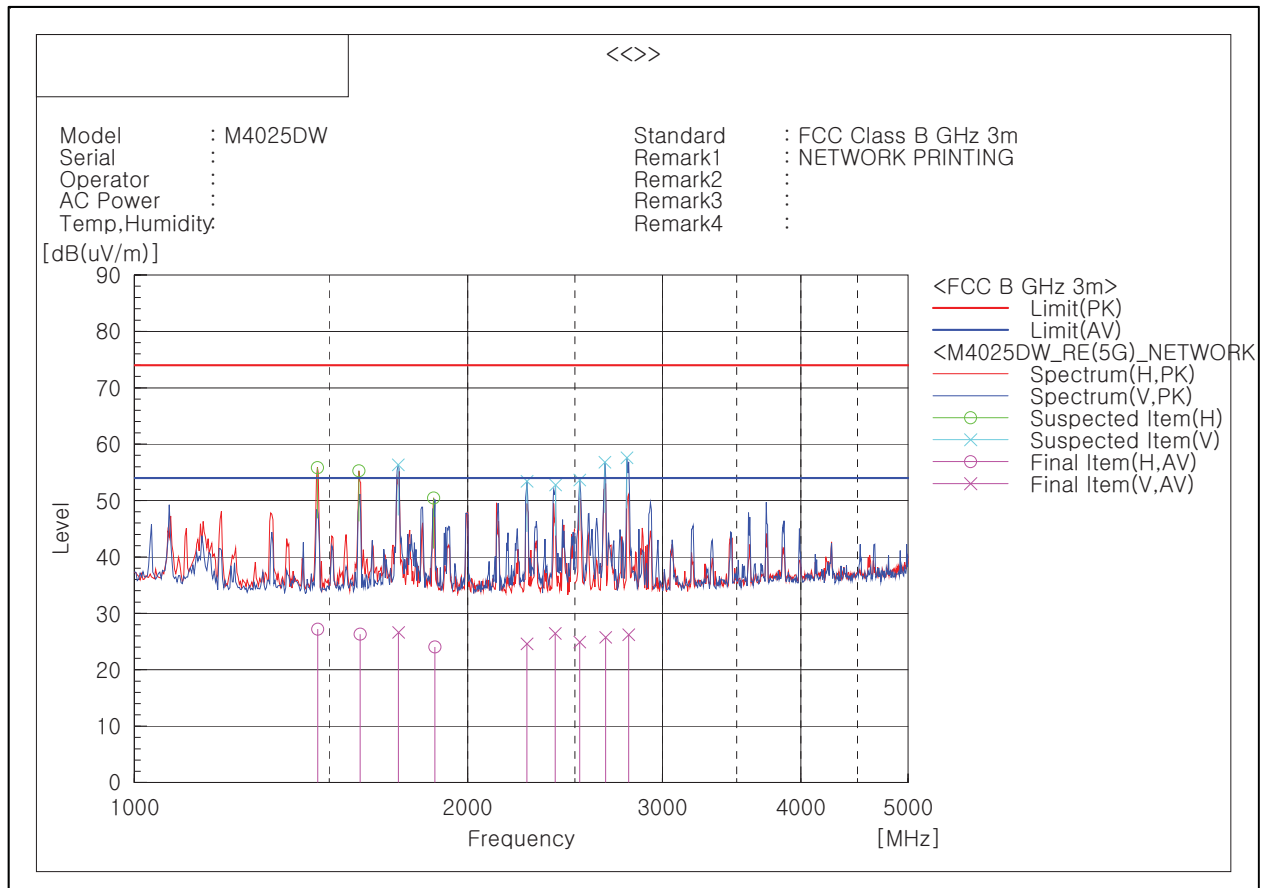
Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

## ■ Operating Mode 2.

## - Network Printing (Dong Yang SMPS)

## Test Results



**Peak Measurement**

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1462.926        | H   | 67.2                | -11.3            | 55.9                | 74               | 18.1           | 107         | 307.6       |
| 1595.190        | H   | 65.5                | -10.2            | 55.3                | 74               | 18.7           | 107         | 307.6       |
| 1730.461        | V   | 66.1                | -9.8             | 56.3                | 74               | 17.7           | 107         | 354.1       |
| 1862.726        | H   | 59.7                | -9.2             | 50.5                | 74               | 23.5           | 107         | 5.3         |
| 2262.525        | V   | 61.4                | -8.0             | 53.4                | 74               | 20.6           | 107         | 344.7       |
| 2400.802        | V   | 60.7                | -7.9             | 52.8                | 74               | 21.2           | 107         | 344.7       |
| 2525.05         | V   | 61.3                | -7.6             | 53.7                | 74               | 20.3           | 107         | 5.9         |
| 2660.321        | V   | 64.0                | -7.2             | 56.8                | 74               | 17.2           | 107         | 13.4        |
| 2785.571        | V   | 64.4                | -6.8             | 57.6                | 74               | 16.4           | 107         | 354.7       |

**Average Measurement**

| Frequency [MHz] | POL | Reading AV [dB(uV)] | Factor [dB(1/m)] | Level AV [dB(uV/m)] | Limit [dB(uV/m)] | MarginAV [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|---------------|-------------|-------------|
| 1463.933        | H   | 38.5                | -11.3            | 27.2                | 54               | 26.8          | 107         | 307.8       |
| 1598.963        | H   | 36.5                | -10.2            | 26.3                | 54               | 27.7          | 107         | 307.8       |
| 1731.438        | V   | 36.5                | -9.8             | 26.7                | 54               | 27.3          | 107         | 353.8       |
| 1867.791        | H   | 33.3                | -9.2             | 24.1                | 54               | 29.9          | 107         | 5.6         |
| 2261.939        | V   | 32.6                | -8.0             | 24.6                | 54               | 29.4          | 107         | 344.7       |
| 2400.006        | V   | 34.3                | -7.9             | 26.4                | 54               | 27.6          | 107         | 344.7       |
| 2524.023        | V   | 32.5                | -7.6             | 24.9                | 54               | 29.1          | 107         | 5.8         |
| 2664.655        | V   | 33.0                | -7.2             | 25.8                | 54               | 28.2          | 107         | 13          |
| 2795.917        | V   | 33.0                | -6.7             | 26.3                | 54               | 27.7          | 107         | 354.8       |

Note ) Receiving antenna polarization : Horizontal and Vertical

Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

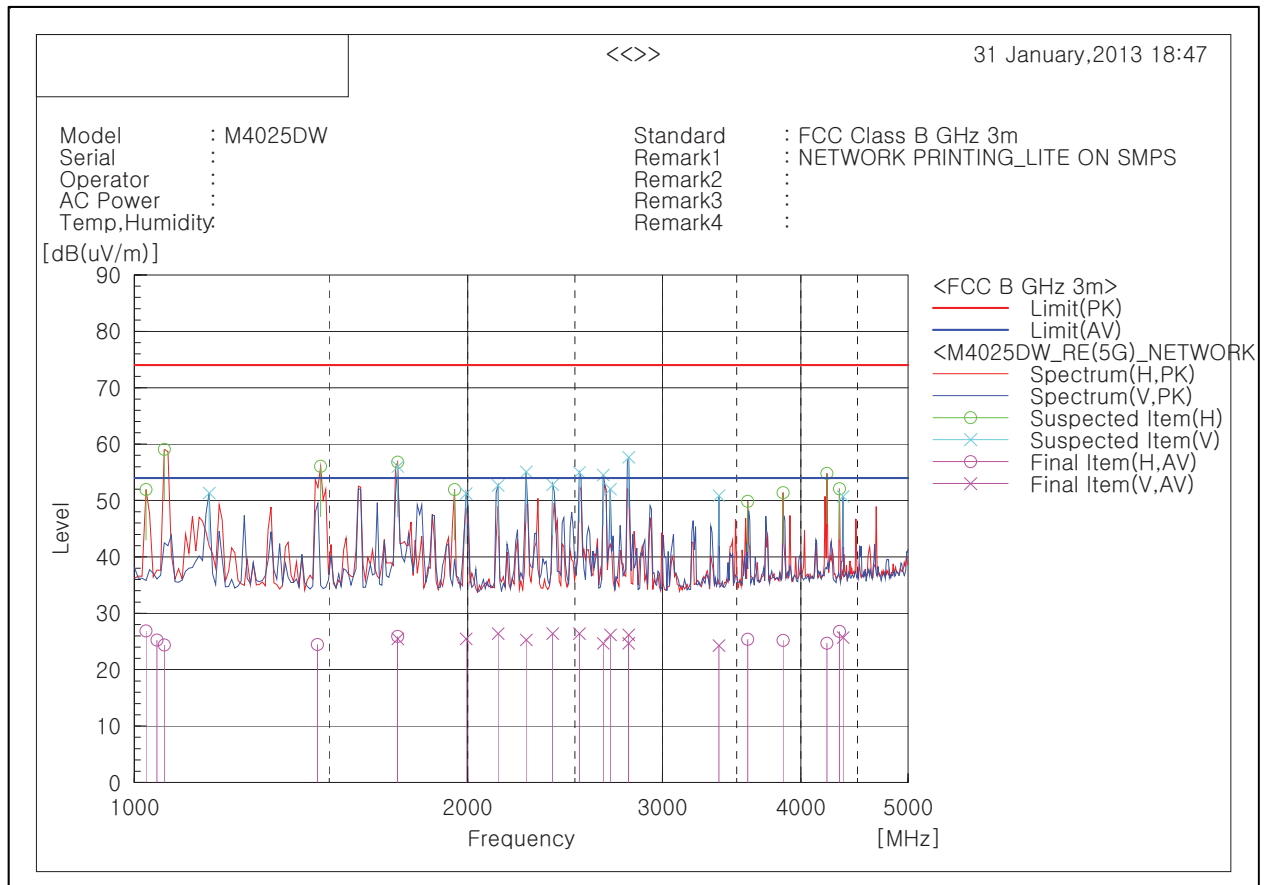
Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

## ■ Operating Mode 2.

## - Network Printing (LITEON SMPS)

## Test Results



**Peak Measurement**

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1024.048        | H   | 65.0                | -13.1            | 51.9                | 74               | 22.1           | 107         | 341.4       |
| 1064.128        | H   | 72.0                | -12.9            | 59.1                | 74               | 14.9           | 107         | 4.7         |
| 1168.337        | V   | 63.9                | -12.5            | 51.4                | 74               | 22.6           | 107         | 267.2       |
| 1472.946        | H   | 67.3                | -11.2            | 56.1                | 74               | 17.9           | 107         | 48.7        |
| 1729.459        | H   | 66.6                | -9.8             | 56.8                | 74               | 17.2           | 107         | 341.4       |
| 1729.459        | V   | 65.8                | -9.8             | 56.0                | 74               | 18.0           | 107         | 357.8       |
| 1945.892        | H   | 60.7                | -8.7             | 52.0                | 74               | 22.0           | 107         | 350.3       |
| 1993.988        | V   | 59.8                | -8.5             | 51.3                | 74               | 22.7           | 107         | 18.5        |
| 2130.261        | V   | 60.9                | -8.2             | 52.7                | 74               | 21.3           | 107         | 336.2       |
| 2258.517        | V   | 63.1                | -8.0             | 55.1                | 74               | 18.9           | 107         | 357.8       |
| 2386.774        | V   | 60.7                | -7.9             | 52.8                | 74               | 21.2           | 107         | 5.8         |
| 2523.046        | V   | 62.6                | -7.6             | 55.0                | 74               | 19.0           | 107         | 9.6         |
| 2651.303        | V   | 61.7                | -7.2             | 54.5                | 74               | 19.5           | 107         | 15.3        |
| 2691.383        | V   | 59.2                | -7.1             | 52.1                | 74               | 21.9           | 107         | 77.9        |
| 2795.591        | V   | 64.4                | -6.7             | 57.7                | 74               | 16.3           | 107         | 350.4       |
| 3372.746        | V   | 55.5                | -4.6             | 50.9                | 74               | 23.1           | 107         | 284.7       |
| 3581.162        | H   | 53.8                | -3.9             | 49.9                | 74               | 24.1           | 107         | 350.3       |
| 3853.707        | H   | 54.3                | -2.9             | 51.4                | 74               | 22.6           | 107         | 356         |
| 4222.445        | H   | 56.9                | -2.1             | 54.8                | 74               | 19.2           | 107         | 169.6       |
| 4334.669        | H   | 53.9                | -1.8             | 52.1                | 74               | 21.9           | 107         | 356         |
| 4366.733        | V   | 52.6                | -1.8             | 50.8                | 74               | 23.2           | 107         | 129.5       |

**Average Measurement**

| Frequency [MHz] | POL | Reading AV [dB(uV)] | Factor [dB(1/m)] | Level AV [dB(uV/m)] | Limit [dB(uV/m)] | MarginAV [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|---------------|-------------|-------------|
| 1024.048        | H   | 40.0                | -13.1            | 26.9                | 54               | 27.1          | 107         | 341.4       |
| 1047.735        | H   | 38.3                | -13.0            | 25.3                | 54               | 28.7          | 107         | 4.7         |
| 1064.128        | H   | 37.3                | -12.9            | 24.4                | 54               | 29.6          | 107         | 4.7         |
| 1463.207        | H   | 35.8                | -11.3            | 24.5                | 54               | 29.5          | 107         | 48.6        |
| 1728.858        | H   | 35.7                | -9.8             | 25.9                | 54               | 28.1          | 107         | 341.2       |
| 1729.459        | V   | 35.3                | -9.8             | 25.5                | 54               | 28.5          | 107         | 357.8       |
| 1993.988        | V   | 34.0                | -8.5             | 25.5                | 54               | 28.5          | 107         | 18.5        |
| 2130.261        | V   | 34.6                | -8.2             | 26.4                | 54               | 27.6          | 107         | 336.2       |
| 2258.517        | V   | 33.3                | -8.0             | 25.3                | 54               | 28.7          | 107         | 357.8       |
| 2386.774        | V   | 34.3                | -7.9             | 26.4                | 54               | 27.6          | 107         | 5.8         |
| 2523.046        | V   | 34.0                | -7.6             | 26.4                | 54               | 27.6          | 107         | 9.6         |
| 2651.303        | V   | 31.9                | -7.2             | 24.7                | 54               | 29.3          | 107         | 15.3        |
| 2691.383        | V   | 33.3                | -7.1             | 26.2                | 54               | 27.8          | 107         | 77.9        |
| 2795.591        | V   | 31.4                | -6.7             | 24.7                | 54               | 29.3          | 107         | 350.4       |
| 2795.591        | V   | 32.9                | -6.7             | 26.2                | 54               | 27.8          | 107         | 350.4       |
| 3372.746        | V   | 28.9                | -4.6             | 24.3                | 54               | 29.7          | 107         | 284.7       |
| 3581.162        | H   | 29.3                | -3.9             | 25.4                | 54               | 28.6          | 107         | 350.3       |
| 3853.707        | H   | 28.1                | -2.9             | 25.2                | 54               | 28.8          | 107         | 356         |
| 4222.445        | H   | 26.8                | -2.1             | 24.7                | 54               | 29.3          | 107         | 169.6       |
| 4334.669        | H   | 28.6                | -1.8             | 26.8                | 54               | 27.2          | 107         | 356         |
| 4366.733        | V   | 27.5                | -1.8             | 25.7                | 54               | 28.3          | 107         | 129.5       |

Note ) Receiving antenna polarization : Horizontal and Vertical

Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

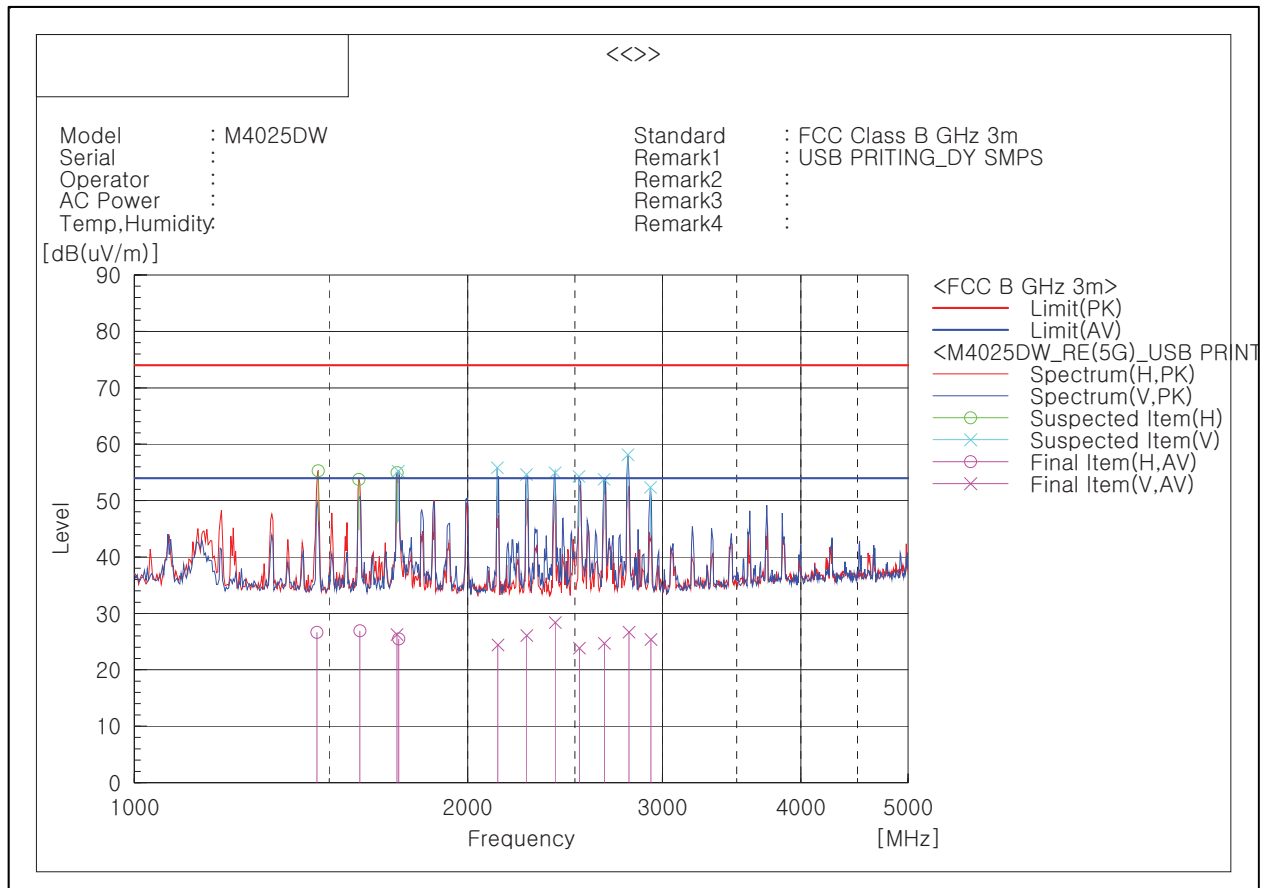
Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

## ■ Operating Mode 3.

## - USB Printing (Dong Yang SMPS)

## Test Results



**Peak Measurement**

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1465.932        | H   | 66.6                | -11.3            | 55.3                | 74               | 18.7           | 107         | 308.1       |
| 1595.190        | H   | 63.9                | -10.2            | 53.7                | 74               | 20.3           | 107         | 316.8       |
| 1727.455        | H   | 64.8                | -9.8             | 55.0                | 74               | 19.0           | 107         | 325.2       |
| 1730.461        | V   | 65.0                | -9.8             | 55.2                | 74               | 18.8           | 107         | 352.1       |
| 2127.255        | V   | 64.1                | -8.2             | 55.9                | 74               | 18.1           | 107         | 316.3       |
| 2259.519        | V   | 62.7                | -8.0             | 54.7                | 74               | 19.3           | 107         | 346.4       |
| 2397.796        | V   | 62.9                | -7.9             | 55.0                | 74               | 19.0           | 107         | 344.6       |
| 2520.040        | V   | 61.9                | -7.6             | 54.3                | 74               | 19.7           | 107         | 336.6       |
| 2655.311        | V   | 61.0                | -7.2             | 53.8                | 74               | 20.2           | 107         | 15.4        |
| 2790.581        | V   | 64.9                | -6.7             | 58.2                | 74               | 15.8           | 107         | 350.7       |
| 2925.852        | V   | 58.7                | -6.3             | 52.4                | 74               | 21.6           | 107         | 350.7       |

**Average Measurement**

| Frequency [MHz] | POL | Reading AV [dB(uV)] | Factor [dB(1/m)] | Level AV [dB(uV/m)] | Limit [dB(uV/m)] | MarginAV [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|---------------|-------------|-------------|
| 1461.919        | H   | 37.9                | -11.3            | 26.6                | 54               | 27.4          | 107         | 308.1       |
| 1598.151        | H   | 37.1                | -10.2            | 26.9                | 54               | 27.1          | 107         | 317.2       |
| 1726.598        | V   | 36.1                | -9.8             | 26.3                | 54               | 27.7          | 107         | 351.8       |
| 1732.761        | H   | 35.3                | -9.8             | 25.5                | 54               | 28.5          | 107         | 324.9       |
| 2129.344        | V   | 32.6                | -8.2             | 24.4                | 54               | 29.6          | 107         | 316.6       |
| 2260.977        | V   | 34.1                | -8.0             | 26.1                | 54               | 27.9          | 107         | 346.4       |
| 2400.006        | V   | 36.3                | -7.9             | 28.4                | 54               | 25.6          | 107         | 344.7       |
| 2523.472        | V   | 31.5                | -7.6             | 23.9                | 54               | 30.1          | 107         | 336.7       |
| 2657.240        | V   | 31.9                | -7.2             | 24.7                | 54               | 29.3          | 107         | 15.4        |
| 2796.768        | V   | 33.4                | -6.7             | 26.7                | 54               | 27.3          | 107         | 350.7       |
| 2928.833        | V   | 31.7                | -6.3             | 25.4                | 54               | 28.6          | 107         | 350.8       |

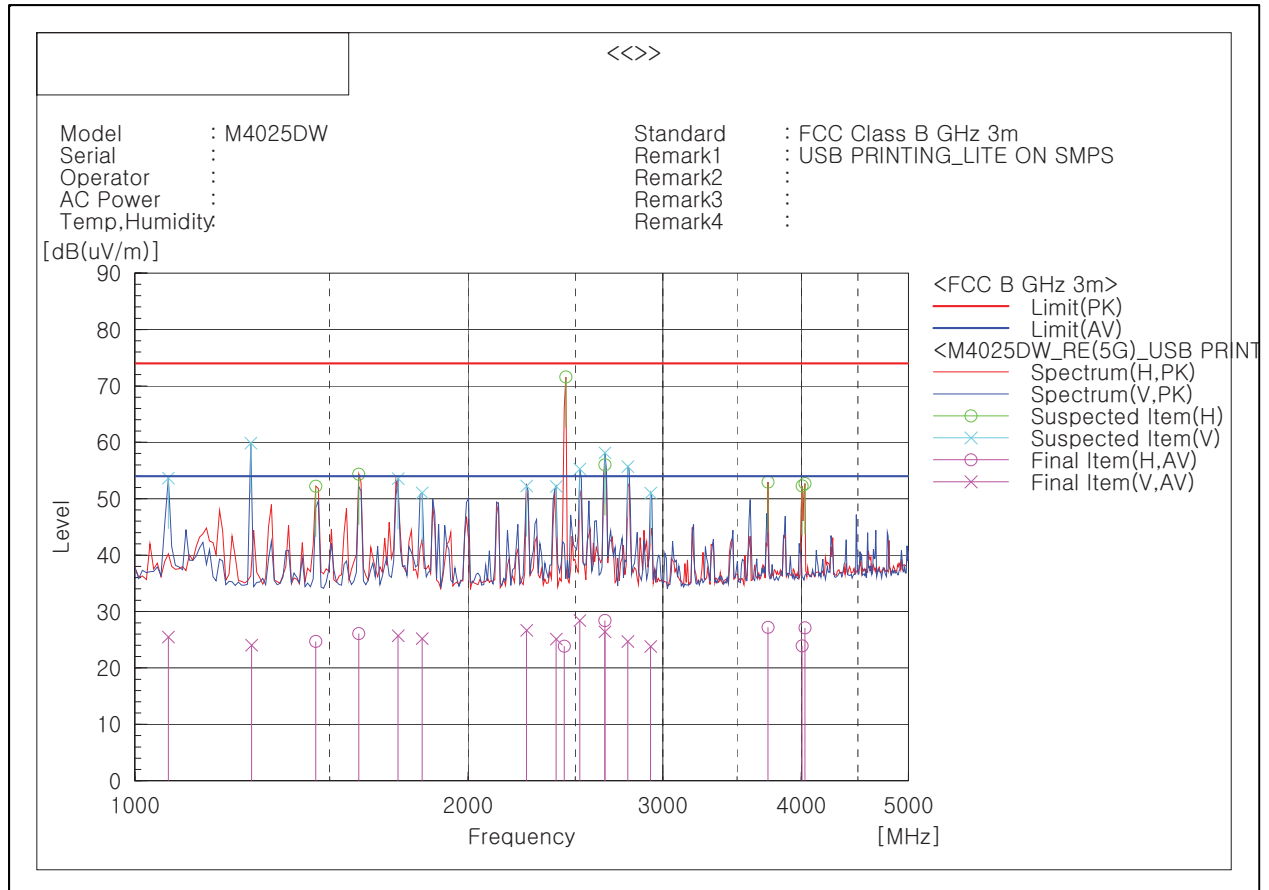
Note ) Receiving antenna polarization : Horizontal and Vertical

Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

**- USB Printing (LITEON SMPS)****Test Results**

**Peak Measurement**

| Frequency [MHz] | POL | Reading PK [dB(uV)] | Factor [dB(1/m)] | Level PK [dB(uV/m)] | Limit [dB(uV/m)] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|----------------|-------------|-------------|
| 1072.144        | V   | 66.6                | -12.9            | 53.7                | 74               | 20.3           | 107         | 15.2        |
| 1272.545        | V   | 72.2                | -12.3            | 59.9                | 74               | 14.1           | 107         | 121         |
| 1456.914        | H   | 63.5                | -11.3            | 52.2                | 74               | 21.8           | 107         | 308.2       |
| 1593.186        | H   | 64.7                | -10.3            | 54.4                | 74               | 19.6           | 107         | 0.4         |
| 1729.459        | V   | 63.4                | -9.8             | 53.6                | 74               | 20.4           | 107         | 350.6       |
| 1817.635        | V   | 60.6                | -9.5             | 51.1                | 74               | 22.9           | 107         | 354         |
| 2258.517        | V   | 60.3                | -8.0             | 52.3                | 74               | 21.7           | 107         | 354         |
| 2402.806        | V   | 60.1                | -7.9             | 52.2                | 74               | 21.8           | 107         | 354         |
| 2450.902        | H   | 79.4                | -7.8             | 70.6                | 74               | 3.4            | 107         | 291         |
| 2523.046        | V   | 62.9                | -7.6             | 55.3                | 74               | 18.7           | 107         | 11.5        |
| 2659.319        | V   | 65.3                | -7.2             | 58.1                | 74               | 15.9           | 107         | 13.4        |
| 2659.319        | H   | 63.2                | -7.2             | 56.0                | 74               | 18.0           | 107         | 334.1       |
| 2787.575        | V   | 62.4                | -6.7             | 55.7                | 74               | 18.3           | 107         | 26.3        |
| 2923.848        | V   | 57.3                | -6.3             | 51.0                | 74               | 23.0           | 107         | 275.9       |
| 3733.467        | H   | 56.2                | -3.3             | 52.9                | 74               | 21.1           | 107         | 334.1       |
| 4006.012        | H   | 54.8                | -2.5             | 52.3                | 74               | 21.7           | 107         | 41.1        |
| 4030.060        | H   | 55.2                | -2.5             | 52.7                | 74               | 21.3           | 107         | 41.1        |

**Average Measurement**

| Frequency [MHz] | POL | Reading AV [dB(uV)] | Factor [dB(1/m)] | Level AV [dB(uV/m)] | Limit [dB(uV/m)] | MarginAV [dB] | Height [cm] | Angle [deg] |
|-----------------|-----|---------------------|------------------|---------------------|------------------|---------------|-------------|-------------|
| 1072.144        | V   | 38.4                | -12.9            | 25.5                | 54               | 28.5          | 107         | 15.2        |
| 1274.509        | V   | 36.4                | -12.3            | 24.1                | 54               | 29.9          | 107         | 121.1       |
| 1456.914        | H   | 36.0                | -11.3            | 24.7                | 54               | 29.3          | 107         | 308.2       |
| 1593.186        | H   | 36.4                | -10.3            | 26.1                | 54               | 27.9          | 107         | 0.4         |
| 1729.459        | V   | 35.5                | -9.8             | 25.7                | 54               | 28.3          | 107         | 350.6       |
| 1817.635        | V   | 34.7                | -9.5             | 25.2                | 54               | 28.8          | 107         | 354         |
| 2258.517        | V   | 34.7                | -8.0             | 26.7                | 54               | 27.3          | 107         | 354         |
| 2402.806        | V   | 33.0                | -7.9             | 25.1                | 54               | 28.9          | 107         | 354         |
| 2443.567        | H   | 31.7                | -7.8             | 23.9                | 54               | 30.1          | 107         | 291         |
| 2523.046        | V   | 36.0                | -7.6             | 28.4                | 54               | 25.6          | 107         | 11.5        |
| 2659.319        | V   | 33.6                | -7.2             | 26.4                | 54               | 27.6          | 107         | 13.4        |
| 2659.319        | H   | 35.6                | -7.2             | 28.4                | 54               | 25.6          | 107         | 334.1       |
| 2787.575        | V   | 31.4                | -6.7             | 24.7                | 54               | 29.3          | 107         | 26.3        |
| 2923.848        | V   | 30.1                | -6.3             | 23.8                | 54               | 30.2          | 107         | 275.9       |
| 3733.467        | H   | 30.5                | -3.3             | 27.2                | 54               | 26.8          | 107         | 334.1       |
| 4006.012        | H   | 26.4                | -2.5             | 23.9                | 54               | 30.1          | 107         | 41.1        |
| 4030.060        | H   | 29.6                | -2.5             | 27.1                | 54               | 26.9          | 107         | 41.1        |

Note ) Receiving antenna polarization : Horizontal and Vertical

Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Level AV (Average) = Reading AV (Average) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin PK (Peak) = Limit – Level PK (Peak)

Margin AV (Average) = Limit – Level AV (Average)

## Appendix – EUT photography



Front View



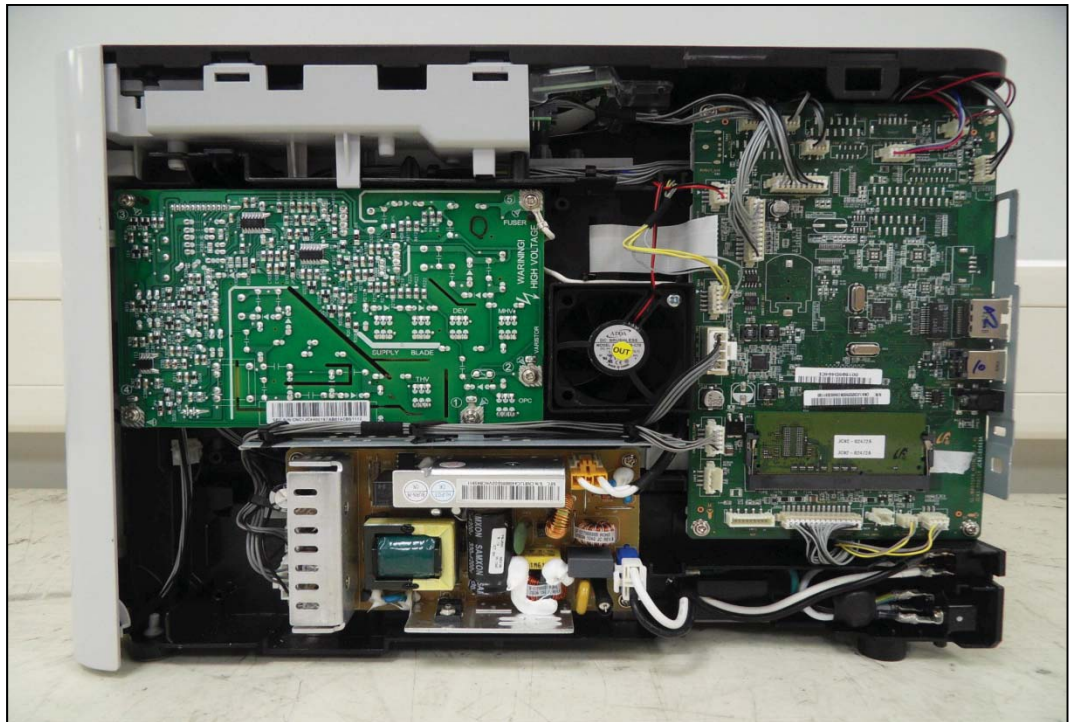
Rear View & Label location



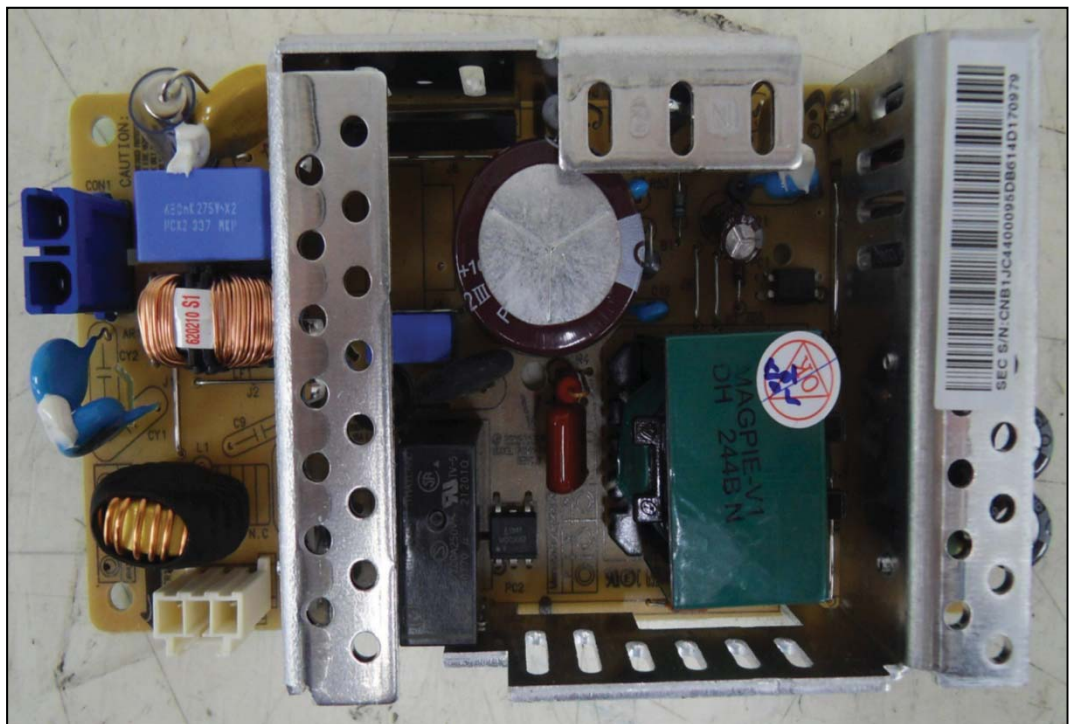
Inside View #1 (Front)



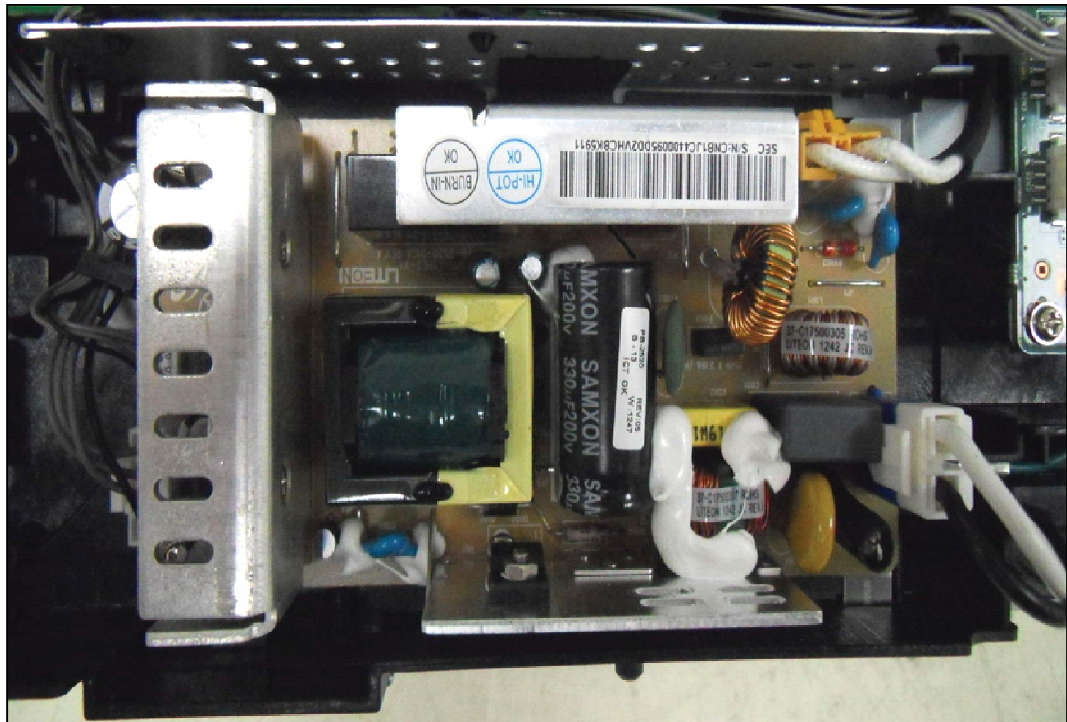
Inside View #1 (Rear)



Inside View #3(Right)



Inside View(Dong Yang SMPS)



Inside View(LITEON SMPS)

|                                                                                                                                                        |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | <b>Model:</b> ProXpress M4025DW<br><b>Volts:</b> AC 110-127V<br><b>Hertz:</b> 50/60 Hz<br><b>Amps:</b> 6.5A | <b>FCC ID :</b> A3LSLM4025DW (Printer)<br>Contains FCC ID : A3LSPWB4319U<br>This device complies with part 15 of the FCC Rules.<br>Operation is subject to the following two conditions:<br>i) This device may not cause harmful interference, and<br>ii) This device must accept any interference received,<br>including interference that may cause undesired operation. |
|                                                                                                                                                        | Samsung Electronics Co., Ltd.<br>Suwon, Korea, 443-742<br>Place: M264                                       | <b>Manufactured:</b> FVJDKKBHJ 2011<br>Contains IC : 649E-SPWB4319U                                                                                                                                                                                                                                                                                                        |
|                                                                     | <b>3U07</b><br><b>US E337632</b><br><b>I.T.E.</b>                                                           | This Class B digital apparatus complies with<br>Canadian ICES-003<br>Cet appareil numérique de la classe B est<br>Conforme à la norme NMB-003 du Canada.<br>This product complies with 21 CFR Chapter 1, subchapter J.                                                                                                                                                     |
| <b>M/C:</b> xx-xxxxxXDW/XAA<br><br><b>Serial No.:</b> FHBKBBNKJ001X |                                                                                                             | <b>Made in China</b><br><b>Fabriqué en Chine</b> REV.00                                                                                                                                                                                                                                                                                                                    |

Label