

EMC TEST REPORT

Project No.	LBE20123954	Issue No.	0
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea	
	Date of application	July 9, 2012	
EUT	Type of device	Class A personal computers and peripherals	
	Equipment authorization	☐ Declaration of Conformity ☒ Certification ☐ Verification	
	FCC ID	A3LSCX4726FN	
	Kind of product	Mono MFP	
	Model No.	SCX-4726FN	
		Variant Model No.	-
	Manufacturer	1) Samsung Electronics (Shandong) Digital Printing Co., Ltd. 264209, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China 2) Weihai Shin Heung Digital Electronics Co., Ltd. 98, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China 3) Intops (Weihai) Electronics Co., Ltd. Keji Road-268-1, Weihai Hi-Tech, Industries Development Zone, Shandong Province, CHINA	
Applied Standards		FCC Part 15, Subpart B / ANSI C63.4-2009	
Test Period		July 3, 2012 ~ July 13, 2012	
Issue date		July 16, 2012	
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.			
 416 Maetan 3-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, 443-742 Korea Tel: 82 31 277 7752, Fax: 82 31 277 7753			

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

1.2.2 Radiated disturbance (at 100 MHz)

- Class B limit = 30 dB μ V/m at 10 m
- Level (20 dB μ V/m)
= Meter Reading (40 dB μ V) + factor (- 20 dB (1/m), antenna factor + cable loss – amplifier gain)
- Margin (10 dB) = Limit (30 dB μ V/m) – Level (20 dB μ 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
☒	Conducted Disturbance (Mains Port)	FCC Part 15 Subpart B / ANSI C63.4-2009	Complied
☒	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 MFP	SCX-4726FN	-	Samsung	EUT
B	Note PC	NP-R580	ZN79XNZ700018H	Samsung	DoC
C	Adapter	AD-9019S	CNBA4400215AD2VH8373317	Li Shin	For PC
D	Telephone	SP-F209	KKAY911816H	Samsung	DoC
E	Keyboard	SDM4510UH	5M000344	Samsung Electro-Mechanics	DoC
F	USB mouse	SC-1000	20-1EI018501	Dong Guan Primax Electronics	DoC
G	Headset	-	-	Actto	DoC

4.2 EUT operating mode

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

Items	Test Condition	SMPS Manufacture
Operating Mode 1	Stand-By	DONG YANG E&P
Operating Mode 2	LAN Printing	
Operating Mode 3	ADF Copy	
Operating Mode 4	Scan to PC	
Operating Mode 5	FAX Rx	SHANDONG NEW COWITEL
Operating Mode 6	LAN Printing	
Operating Mode 7	ADF Copy	

4.3 Details of Sampling

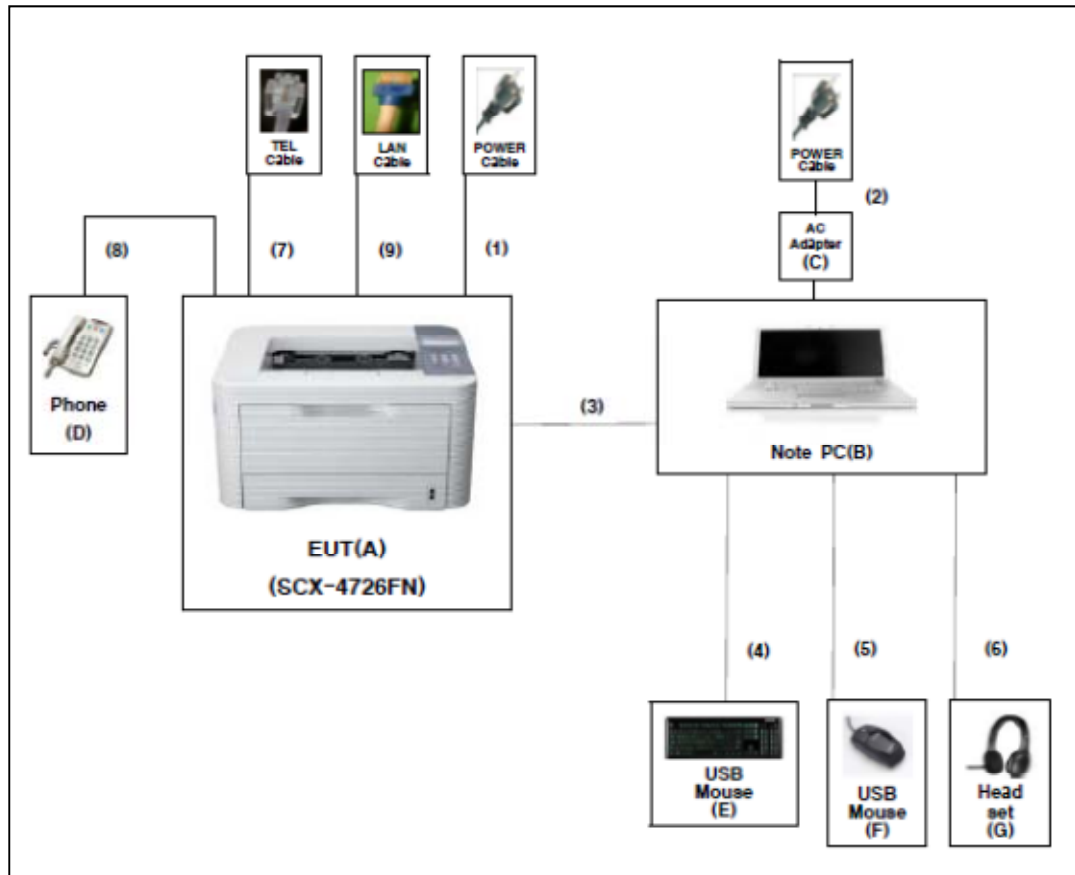
Customer selected, single unit.

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	1.0	No	For EUT
2	Power	1.8	No	For PC
3	USB	1.8	Yes	From EUT to PC
4	USB	1.5	Yes	From PC to Keyboard
5	USB	1.5	Yes	From PC to Mouse
6	Audio	2.0	No	From PC to Headset
7	TEL	3.0	No	From EUT to keyphone system
8	TEL	2.0	No	From EUT to telephones
9	LAN	2.0	No	From EUT to HUB

4.5 Test arrangement



4.6 EUT Description

The following features describe EUT represented by this report:

Item	Specification and Description
Processor	CHOURS3N(533Mhz)
Standard System memory	DDR3 128MB
Resolution	True 600 x 600 dpi, addressable 1200 x 1200
Copy Quality mode	Yes
Paper Handling	250-sheet Cassette @ 80g/m ² , 1-sheet Multi Purpose Tray
Power Rating	110~127 VAC, 5.5A, 50/60 Hz
Power Consumption	Power save mode : 1.5 Wh Ready mode : 50 Wh Printing mode : 400 Wh(Max)
Printer Language	PCL6, SPL
PC Interfaces	High Speed USB2.0 Ethernet 10/100
OS compatibility	Windows 2000/XP(32/64bits)/Vista(32/64bits)/2003 Server(32/64bits)/2008 Server(32/64bits)/7(32/64bits)/2008 Server R2(64bits) Mac OS X 10.4 ~ 10.6 RedHat Enterprise Linux WS 4, 5 (32/64 bit) Fedora 5, 6, 7, 8, 9, 10, 11, 12, 13 (32/64 bit) SuSE Linux 10.1 (32 bit) OpenSuSE 10.2, 10.3, 11.0, 11.1, 11.2 (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 (32/64 bit) SuSE Linux Enterprise Desktop 10, 11 (32/64 bit) Debian 4.0, 5.0 (32/64 bit) Sun Solaris 9,10 (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
Modes of Operation	USB Printing, Network Printing, Platen Scan to PC, Platen Copy, ADF Scan to PC, ADF Copy, FAX Tx, FAX Rx
Intended Class for Emissions	Class B

4.7 Clock Frequencies

Kind of Clocks	Frequency [MHz]	Kind of Clocks	Frequency [MHz]
Main Source	12	Video	12
CPU Internal	533	DDR3	360
USB Device	12	Network	25
-	-	Modem	15

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, Dong Yang E&P, Shandong New Cowitel were applied during testing. Each SMPS was installed for testing, tested and reported.

The EUT was measured all testing with toner cartridge.

- Test Voltage : AC 120 V, 60 Hz

Item	Model Name	P/N	Manufacturer
Main Board	SCX-4726FN MAIN	REV 0.1	Samsung
SMPS	KINGBIRD-V1	REV 1.1	DONG YANG E&P
	KINGBIRD-V1	REV 1.1	SHANDONG NEW COWITEL
HVPS	HVPS	REV 1.2	DONG YANG E&P, SUNGHO
Toner Cartridge	MLT-D103	-	Samsung
Memory	DDR3	-	Samsung, NANYA

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 (C.L. 95 %, k = 2)
Conducted disturbance	Main terminal	3.30 dB
Radiated Disturbance (Below 1 GHz)	Horizontal	5.26 dB
	Vertical	5.27 dB
Radiated Disturbance (Above 1 GHz)	Horizontal	3.40 dB
	Vertical	3.12 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 MHz	Resolution Bandwidth	Limits dB μ 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 (No./Ver.)	Calibration	
				Date	Interval (Month)
Measuring receiver	ESIB 26	R&S	100287	2011-07-30	12
Artificial mains network	ENV216	R&S	100456	2011-09-28	12
Artificial mains network	ESH3-Z5	R&S	831887/004	2011-07-27	12
Test Software	EMC32	R&S	Ver 5.20.1	-	-

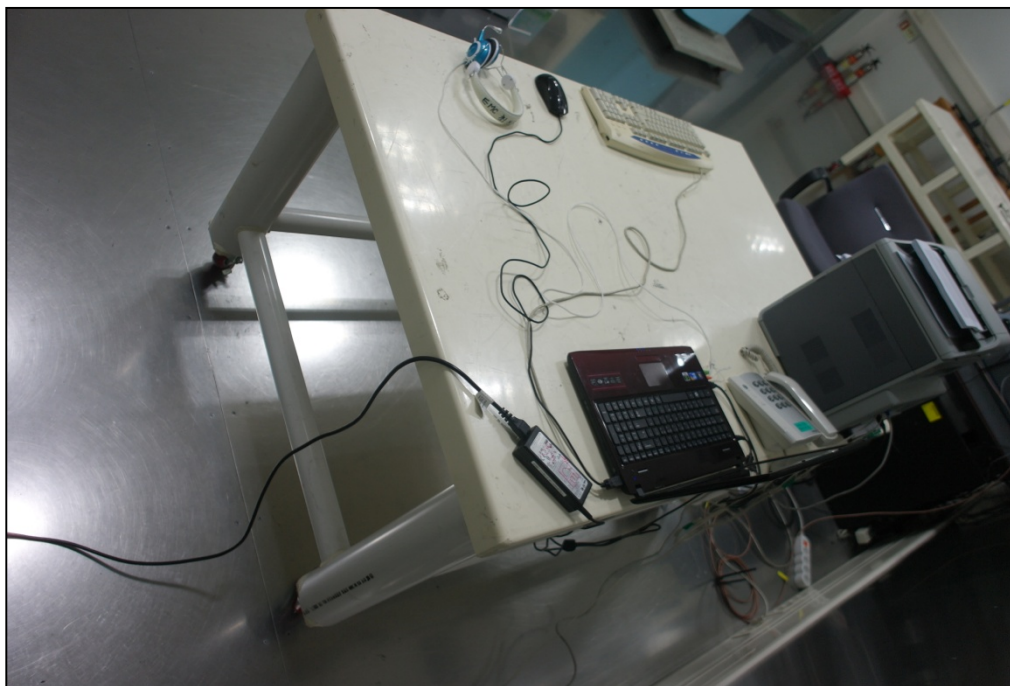
5.1.2 Temperature and humidity condition

Test date	July 15, 2012	Test engineer		Sang Kyu Seo	
Climate condition	Ambient temperature	23.8 °C	Relative humidity		43.0 %
	Atmospheric pressure	99.7 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.

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

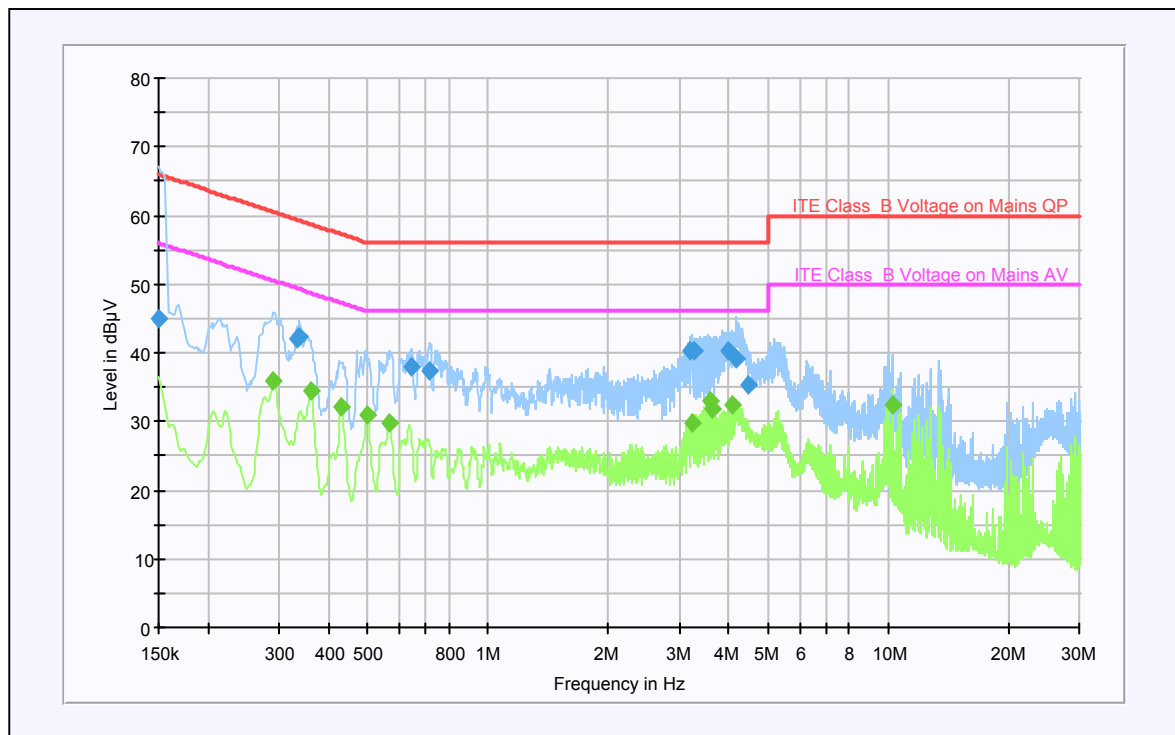
Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150 000	44.9	L1	10.2	21.1	66.0
0.333 000	42.1	N	9.9	17.3	59.4
0.335 000	42.2	L1	9.9	17.1	59.3
0.643 000	37.9	L1	10.0	18.1	56.0
0.715 000	37.2	L1	9.9	18.8	56.0
3.211 000	40.4	N	9.7	15.6	56.0
3.279 000	40.3	L1	9.6	15.7	56.0
3.975 000	40.3	L1	9.6	15.7	56.0
4.183 000	39.0	L1	9.6	17.0	56.0
4.459 000	35.3	N	9.6	20.7	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.289 000	35.9	N	9.9	14.7	50.6
0.359 000	34.4	N	9.9	14.4	48.8
0.429 000	32.1	N	10.0	15.2	47.3
0.499 000	30.9	L1	10.0	15.1	46.0
0.567 000	29.7	N	10.0	16.3	46.0
3.235 000	29.9	N	9.7	16.1	46.0
3.579 000	32.9	L1	9.6	13.1	46.0
3.647 000	31.8	L1	9.6	14.2	46.0
4.079 000	32.4	L1	9.6	13.6	46.0
10.243 000	32.4	L1	9.7	17.6	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 2.

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

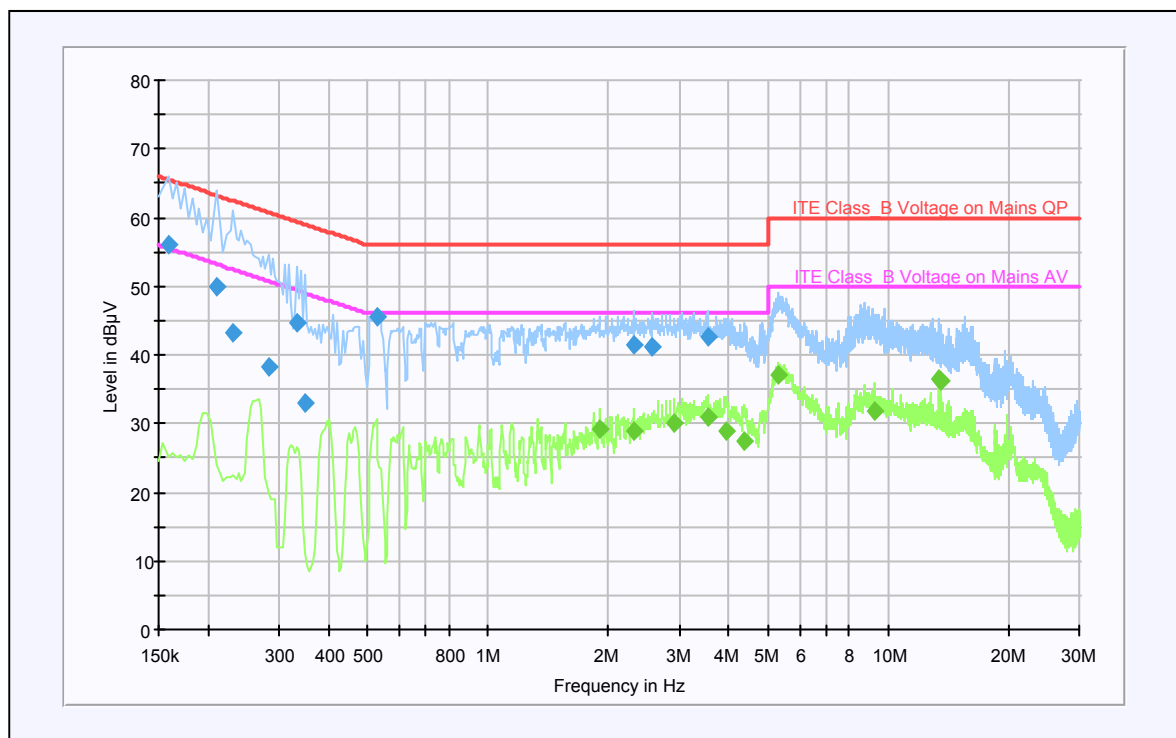
Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.158 000	56.1	L1	9.8	9.5	65.6
0.210 000	49.8	L1	9.8	13.4	63.2
0.230 000	43.3	L1	9.8	19.1	62.4
0.282 000	38.3	L1	9.9	22.5	60.8
0.334 000	44.7	L1	9.9	14.7	59.4
0.350 000	32.9	L1	9.9	26.1	59.0
0.526 000	45.7	L1	10.0	10.3	56.0
2.308 000	41.5	L1	9.7	14.5	56.0
2.580 000	41.1	L1	9.7	14.9	56.0
3.528 000	42.6	L1	9.6	13.4	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.900 000	29.2	L1	9.7	16.8	46.0
2.308 000	28.9	N	9.7	17.1	46.0
2.912 000	30.1	N	9.7	15.9	46.0
3.532 000	30.9	N	9.6	15.1	46.0
3.932 000	29.0	N	9.6	17.0	46.0
4.352 000	27.5	N	9.6	18.5	46.0
5.296 000	37.2	N	9.6	12.8	50.0
9.228 000	31.9	N	9.7	18.1	50.0
13.420 000	36.6	N	9.8	13.4	50.0
13.480 000	36.3	N	9.8	13.7	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.

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

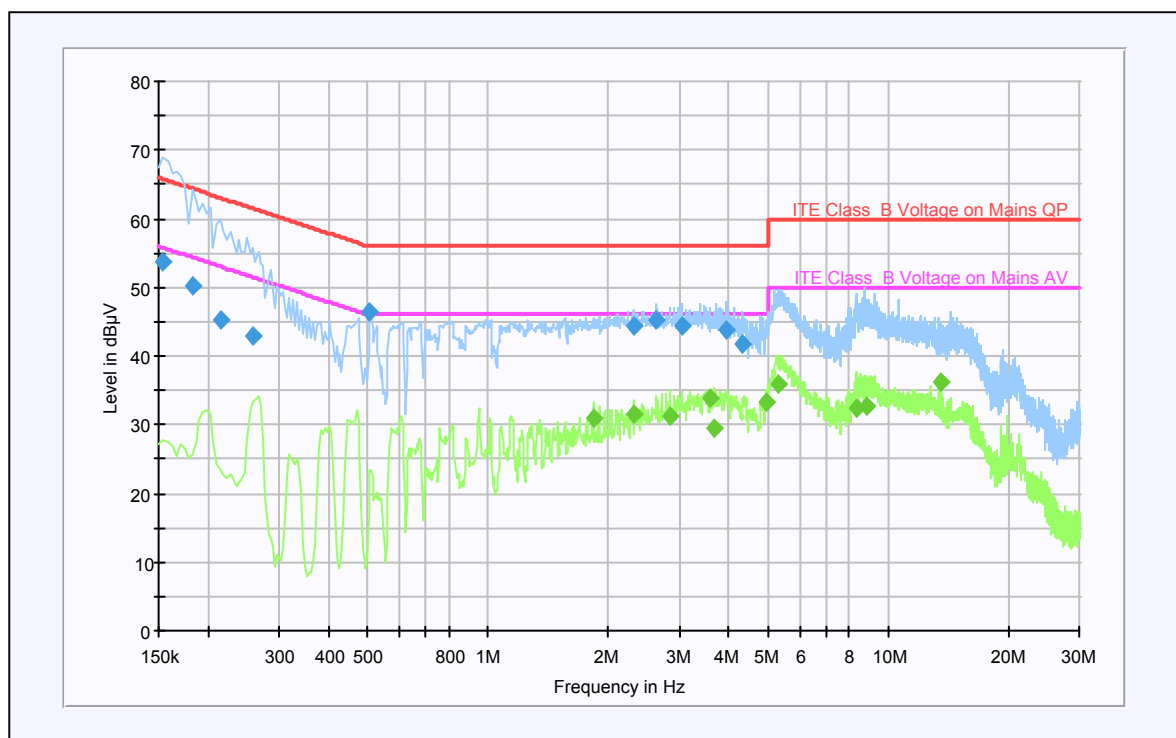
Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.154 000	53.6	N	9.8	12.2	65.8
0.182 000	50.2	L1	9.9	14.2	64.4
0.214 000	45.2	L1	9.8	17.8	63.0
0.258 000	42.9	N	9.8	18.6	61.5
0.506 000	46.4	N	10.0	9.6	56.0
2.300 000	44.3	L1	9.7	11.7	56.0
2.640 000	45.3	L1	9.7	10.7	56.0
3.048 000	44.4	L1	9.6	11.6	56.0
3.928 000	43.8	L1	9.6	12.2	56.0
4.332 000	41.9	L1	9.6	14.1	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.828 000	31.1	L1	9.7	14.9	46.0
2.300 000	31.5	L1	9.7	14.5	46.0
2.840 000	31.4	L1	9.7	14.6	46.0
3.588 000	33.9	L1	9.6	12.1	46.0
3.656 000	29.5	L1	9.6	16.5	46.0
4.980 000	33.3	L1	9.6	12.7	46.0
5.316 000	35.9	L1	9.6	14.1	50.0
8.356 000	32.4	L1	9.7	17.6	50.0
8.804 000	32.6	L1	9.7	17.4	50.0
13.480 000	36.2	L1	9.7	13.8	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 4.**Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

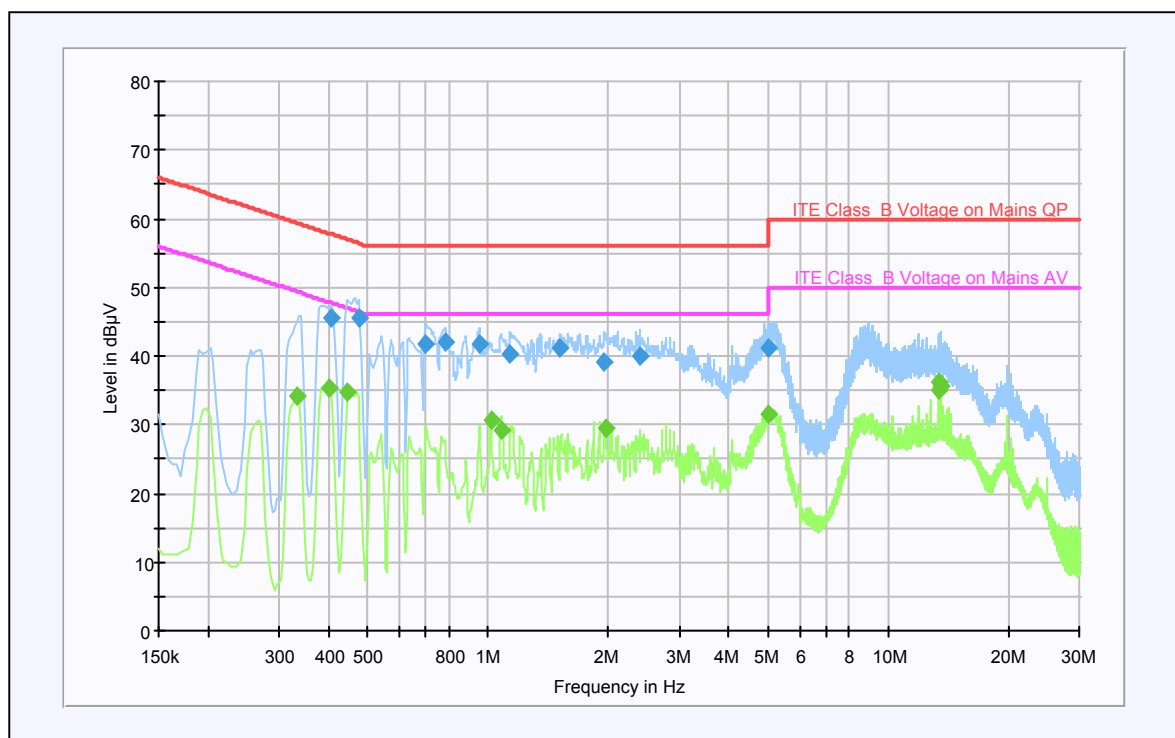
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.406 000	45.6	L1	10.0	12.1	57.7
0.474 000	45.6	N	10.0	10.8	56.4
0.694 000	41.9	N	9.9	14.1	56.0
0.786 000	41.9	L1	9.9	14.1	56.0
0.950 000	41.7	L1	9.8	14.3	56.0
1.136 000	40.4	L1	9.8	15.6	56.0
1.516 000	41.2	N	9.7	14.8	56.0
1.956 000	39.2	L1	9.7	16.8	56.0
2.400 000	39.9	L1	9.7	16.1	56.0
4.992 000	41.3	L1	9.6	14.7	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.334 000	34.2	N	9.9	15.2	49.4
0.402 000	35.5	L1	10.0	12.4	47.8
0.446 000	34.7	L1	10.0	12.2	46.9
1.016 000	30.7	L1	9.8	15.3	46.0
1.076 000	29.3	N	9.8	16.7	46.0
1.964 000	29.5	L1	9.7	16.5	46.0
4.996 000	31.4	N	9.6	14.6	46.0
13.356 000	35.1	N	9.8	14.9	50.0
13.420 000	36.1	N	9.8	13.9	50.0
13.480 000	35.7	L1	9.7	14.3	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 5.**Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

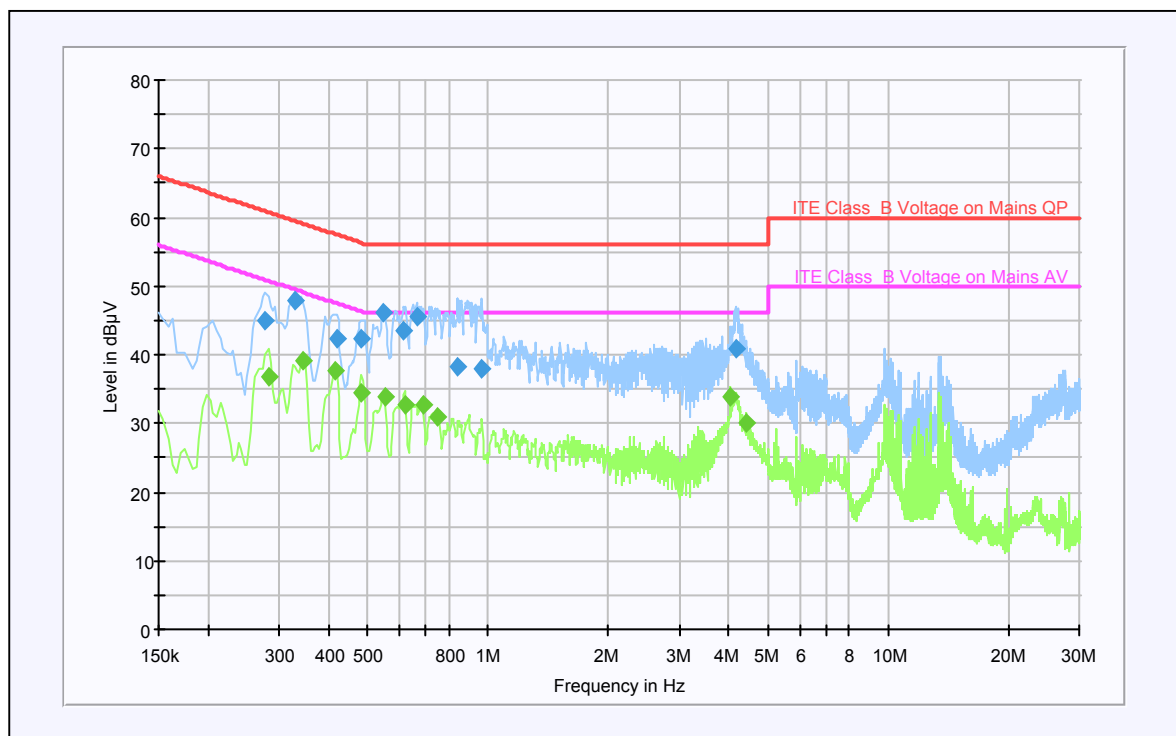
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.278 000	45.1	N	9.9	15.8	60.9
0.330 000	48.0	L1	9.9	11.5	59.5
0.418 000	42.2	N	10.0	15.3	57.5
0.482 000	42.2	L1	10.0	14.1	56.3
0.546 000	46.1	L1	10.0	9.9	56.0
0.614 000	43.5	N	10.0	12.5	56.0
0.662 000	45.6	L1	9.9	10.4	56.0
0.838 000	38.4	L1	9.9	17.6	56.0
0.966 000	38.1	L1	9.8	17.9	56.0
4.144 000	41.0	L1	9.6	15.0	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.282 000	36.7	N	9.9	14.1	50.8
0.346 000	39.2	L1	9.9	9.9	49.1
0.414 000	37.6	L1	10.0	10.0	47.6
0.482 000	34.3	L1	10.0	12.0	46.3
0.550 000	33.9	L1	10.0	12.1	46.0
0.618 000	32.8	N	10.0	13.2	46.0
0.686 000	32.8	N	9.9	13.2	46.0
0.750 000	30.9	N	9.9	15.1	46.0
4.032 000	34.0	L1	9.6	12.0	46.0
4.412 000	30.0	N	9.6	16.0	46.0

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 6.**Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

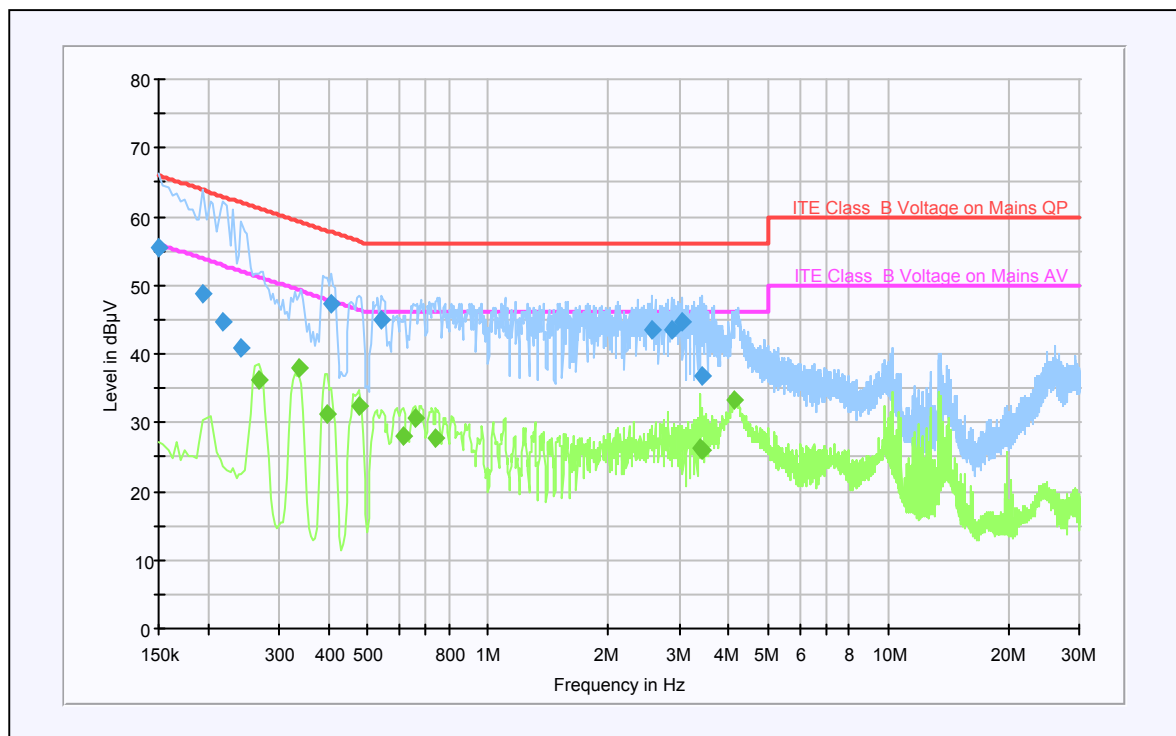
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150 000	55.4	N	10.2	10.6	66.0
0.194 000	48.6	L1	9.8	15.3	63.9
0.218 000	44.7	N	9.8	18.2	62.9
0.242 000	40.8	N	9.8	21.2	62.0
0.406 000	47.3	L1	10.0	10.4	57.7
0.542 000	45.0	N	10.0	11.0	56.0
2.568 000	43.5	N	9.7	12.5	56.0
2.864 000	43.5	N	9.7	12.5	56.0
3.040 000	44.7	N	9.7	11.3	56.0
3.424 000	36.7	N	9.7	19.3	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.266 000	36.3	N	9.8	14.9	51.2
0.338 000	38.1	N	9.9	11.2	49.3
0.394 000	31.1	L1	9.9	16.9	48.0
0.474 000	32.4	L1	10.0	14.0	46.4
0.610 000	28.1	N	10.0	17.9	46.0
0.654 000	30.6	N	9.9	15.4	46.0
0.742 000	27.7	N	9.9	18.3	46.0
3.380 000	26.1	L1	9.6	19.9	46.0
3.416 000	26.0	L1	9.6	20.0	46.0
4.136 000	33.2	N	9.6	12.8	46.0

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 7.**Hardware Setup: Voltage with ENV 2-Line-LISN - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz – 30 MHz

Receiver: ESIB

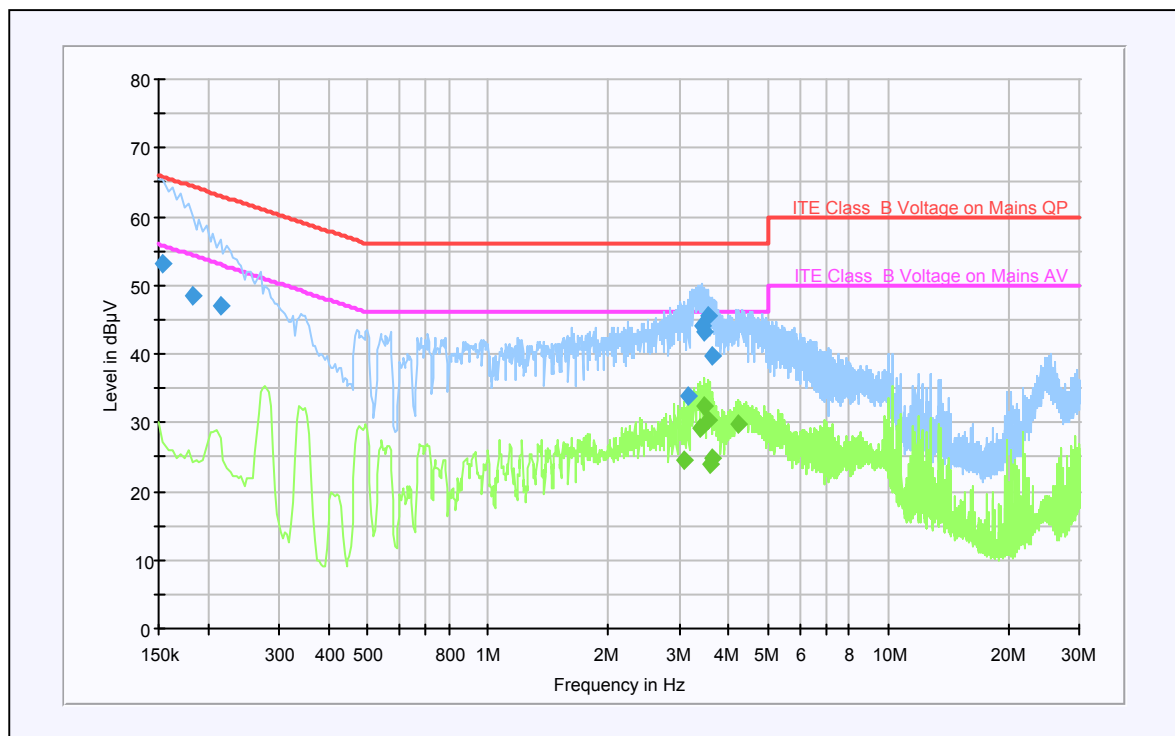
Transducer: ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55022_A_ENV 2-Line-LISN fin [EMI conducted]

Hardware Setup: Voltage with ENV 2-Line-LISN

Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	3s	ESIB 26

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 μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.154 000	53.1	N	9.8	12.7	65.8
0.182 000	48.4	N	9.9	16.0	64.4
0.214 000	46.9	N	9.8	16.1	63.0
3.160 000	33.9	N	9.7	22.1	56.0
3.412 000	44.1	N	9.7	11.9	56.0
3.464 000	43.1	N	9.7	12.9	56.0
3.532 000	45.6	N	9.6	10.4	56.0
3.616 000	39.8	N	9.6	16.2	56.0

Average final measurement results table

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
3.076 000	24.5	N	9.7	21.5	46.0
3.396 000	29.3	N	9.7	16.7	46.0
3.476 000	32.3	N	9.7	13.7	46.0
3.544 000	30.5	L1	9.6	15.5	46.0
3.576 000	24.0	L1	9.6	22.0	46.0
3.644 000	24.7	L1	9.6	21.3	46.0
4.228 000	29.9	N	9.6	16.1	46.0

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 MHz	Resolution Bandwidth	Quasi-peak Limits dB dB($\mu\text{V}/\text{m}$)	
		Class A	Class B
30 to 230	120 kHz	40	30
230 to 1000	120 kHz	47	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 3 GHz in accordance with internal maximum operating frequency at a measurement distance of 3 m for the following antenna and turntable arrangements:

Antenna Height (cm)	Antenna Polarisation	Turntable position (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
A	80	60
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)
EMI Test Receiver	ESU	R&S	100084	2011-10-10	12
EMI Test Receiver	ESCI	R&S	100136	2012-05-09	12
Bi-log Antenna	CBL6112D	SCHAFFNER	22248	2012-02-16	24
Bi-log Antenna	CBL6112D	SCHAFFNER	22604	2012-04-19	24
Amplifier	310N	SONOMA	251673	2011-12-19	12
Amplifier	310N	SONOMA	251675	2012-01-31	12
Ant. Mast	MA4000	inn-co	-	-	-
Ant. Mast	MA4000	inn-co	-	-	-
Mast Controller	CO2000	inn-co	-	-	-
RF selector	NS4900	TOYO	-	-	-
EMI Test Receiver	ESIB	R&S	832692/002	2011-11-11	12
Horn antenna	HF907	R&S	100165	2011-06-09	24
Preamplifier	SCU18	R&S	10001	2012-05-11	12
Test Software	EP5/RE	TOYO	Ver 3.10.20	-	-

5.2.2 Temperature and humidity condition

Test date	July 3, 2012 ~ July 12, 2012	Test engineer		Sang Kyu Seo	
Climate condition	Ambient temperature	23.9 ℃	Relative humidity		40 %
	Atmospheric pressure	99.6 kPa			
Test place	10 m Semi-Anechoic Chamber				

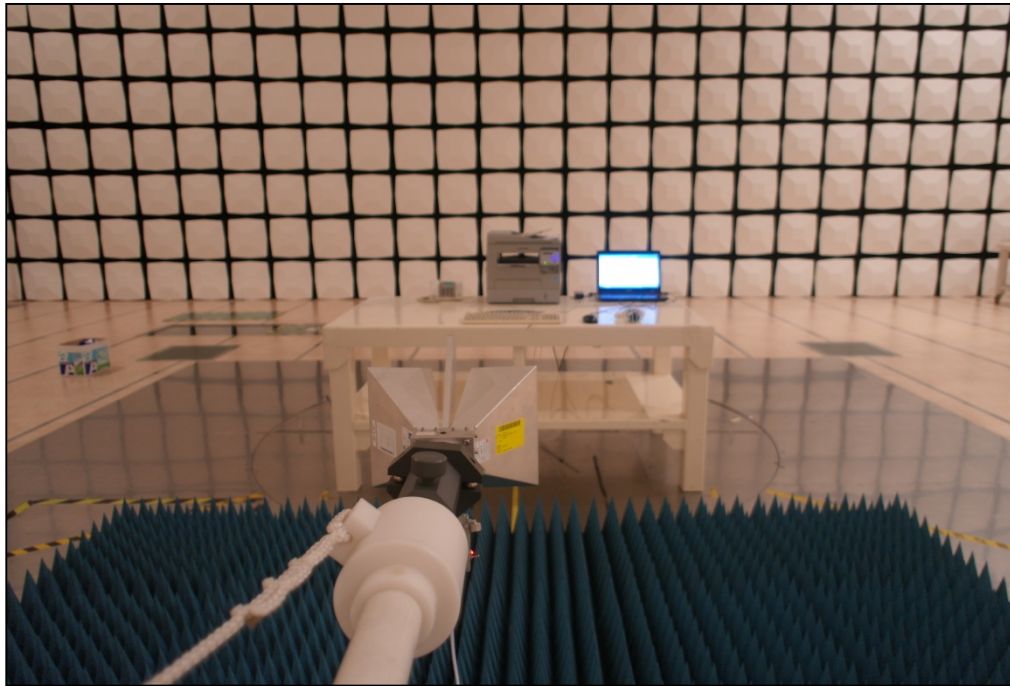
5.2.3 Photograph of Test Setup



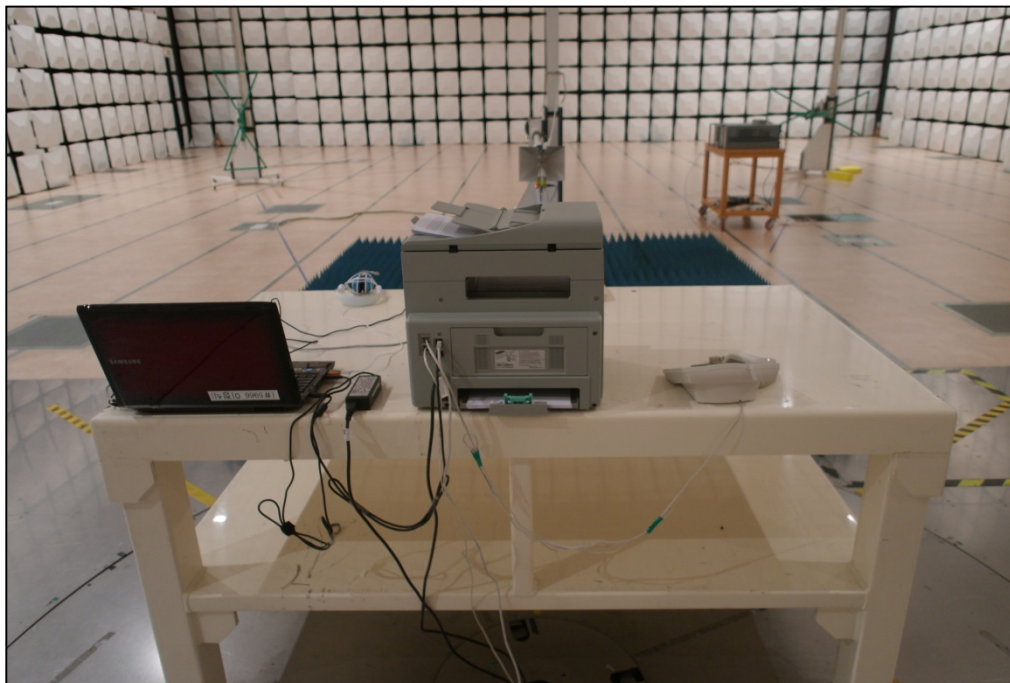
Front (Below 1GHz)



Rear (Below 1GHz)



Front (above 1GHz)



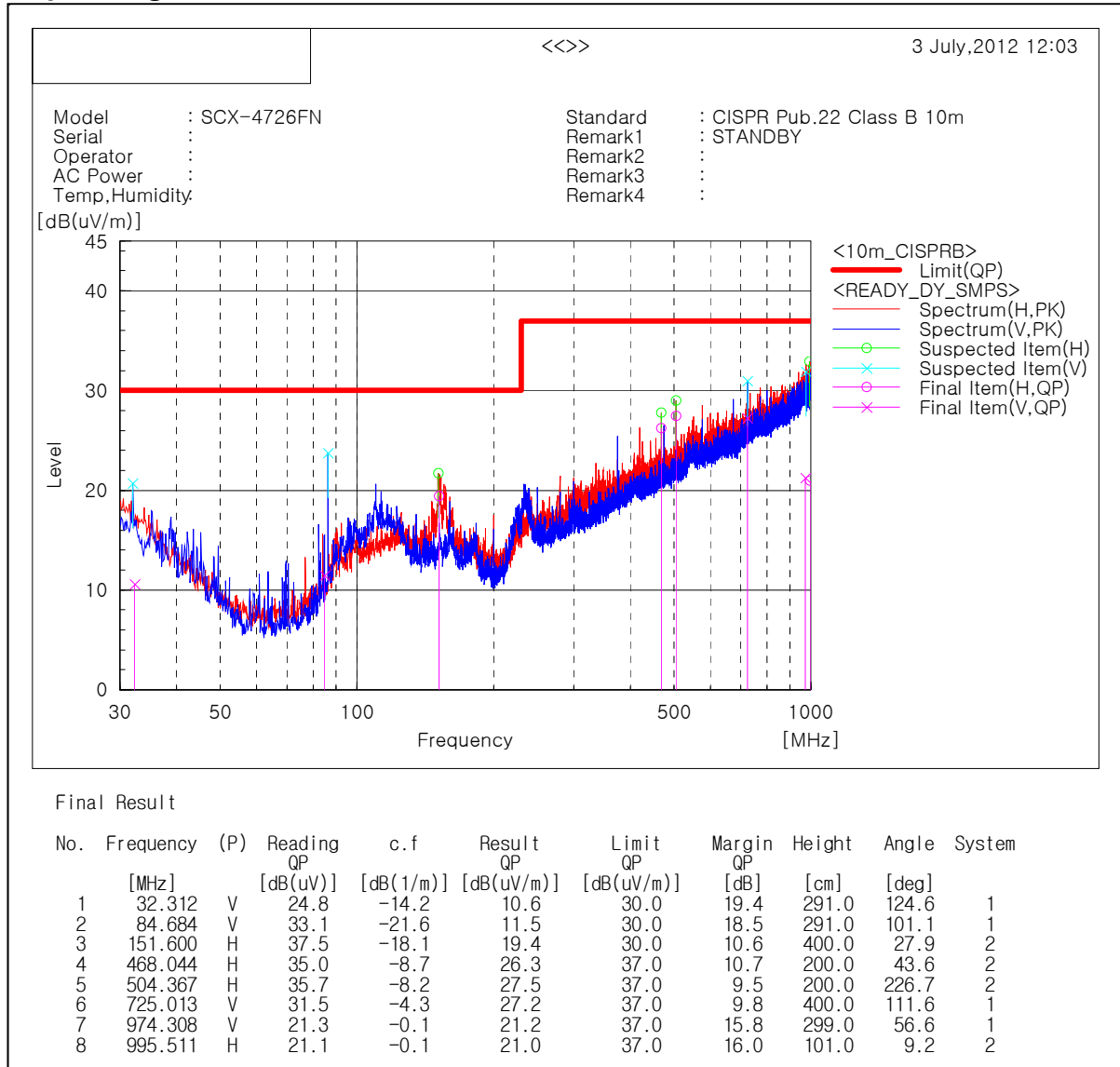
Rear (above 1GHz)

5.2.4 Test results

5.2.4.1 30 MHz to 1GHz test results

Test Graph and Results

- Operating Mode 1.

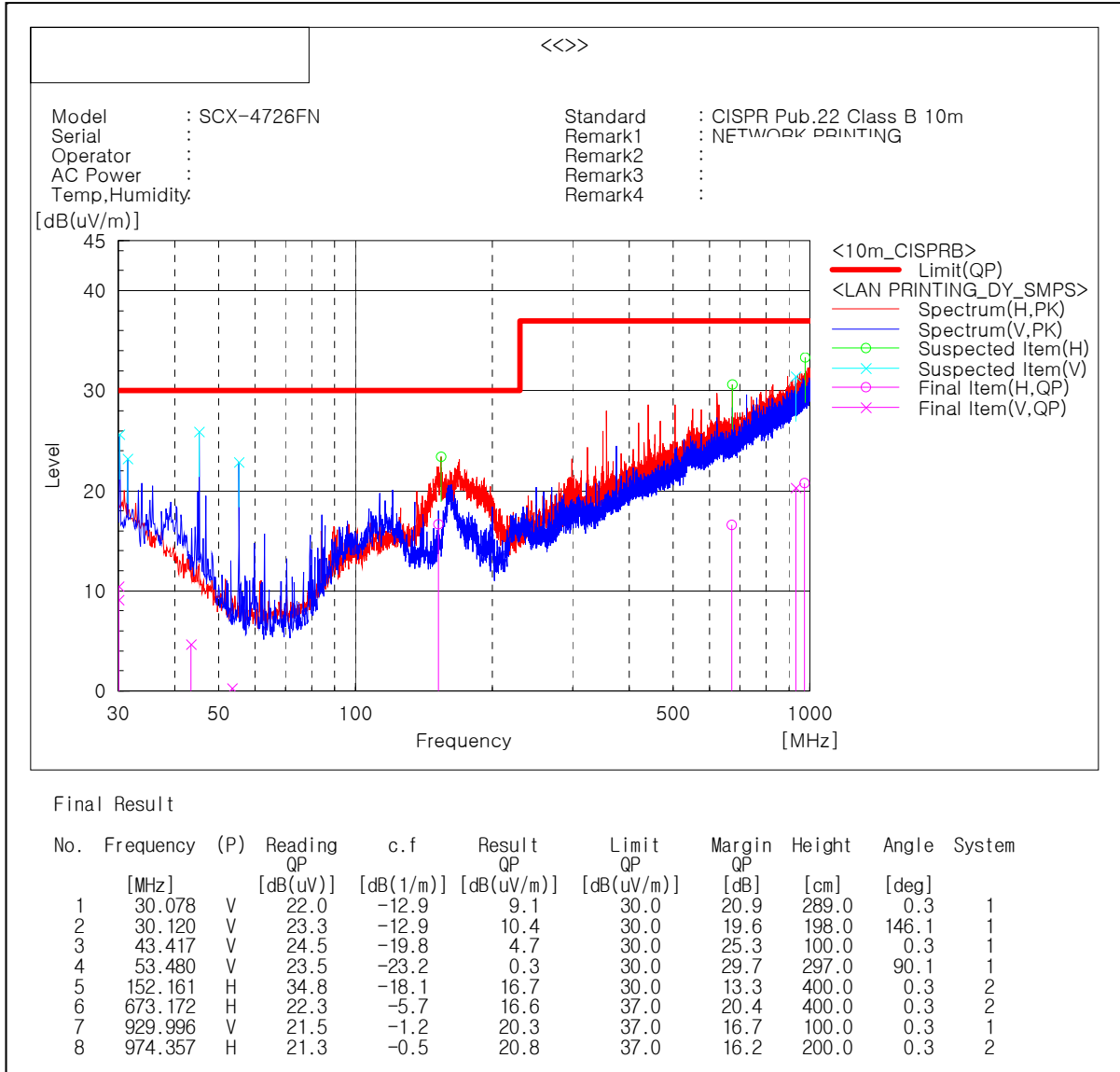


Note) Receiving antenna polarization : Horizontal and/or Vertical

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

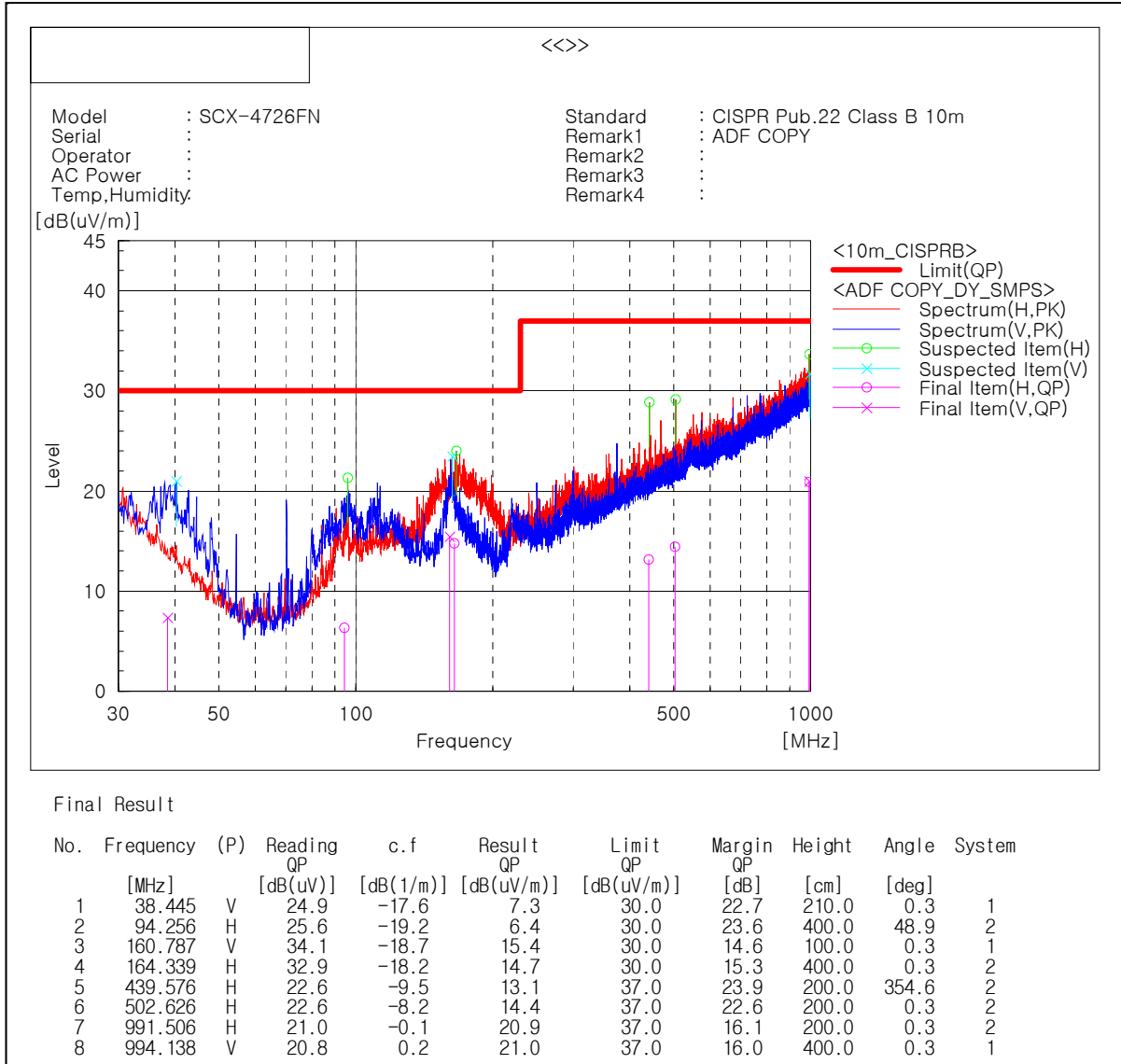
- Operating Mode 2.

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

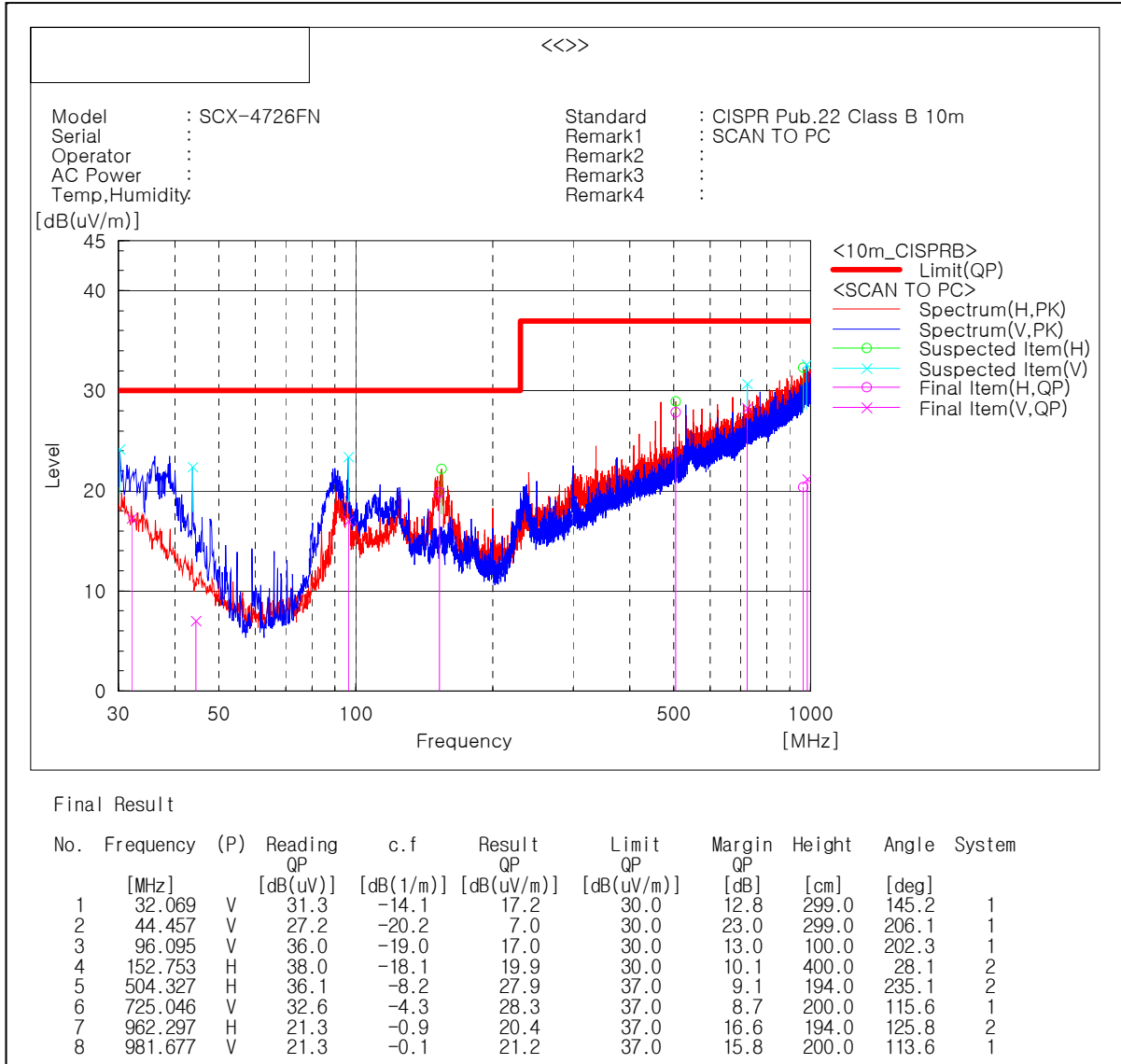
- Operating Mode 3.

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

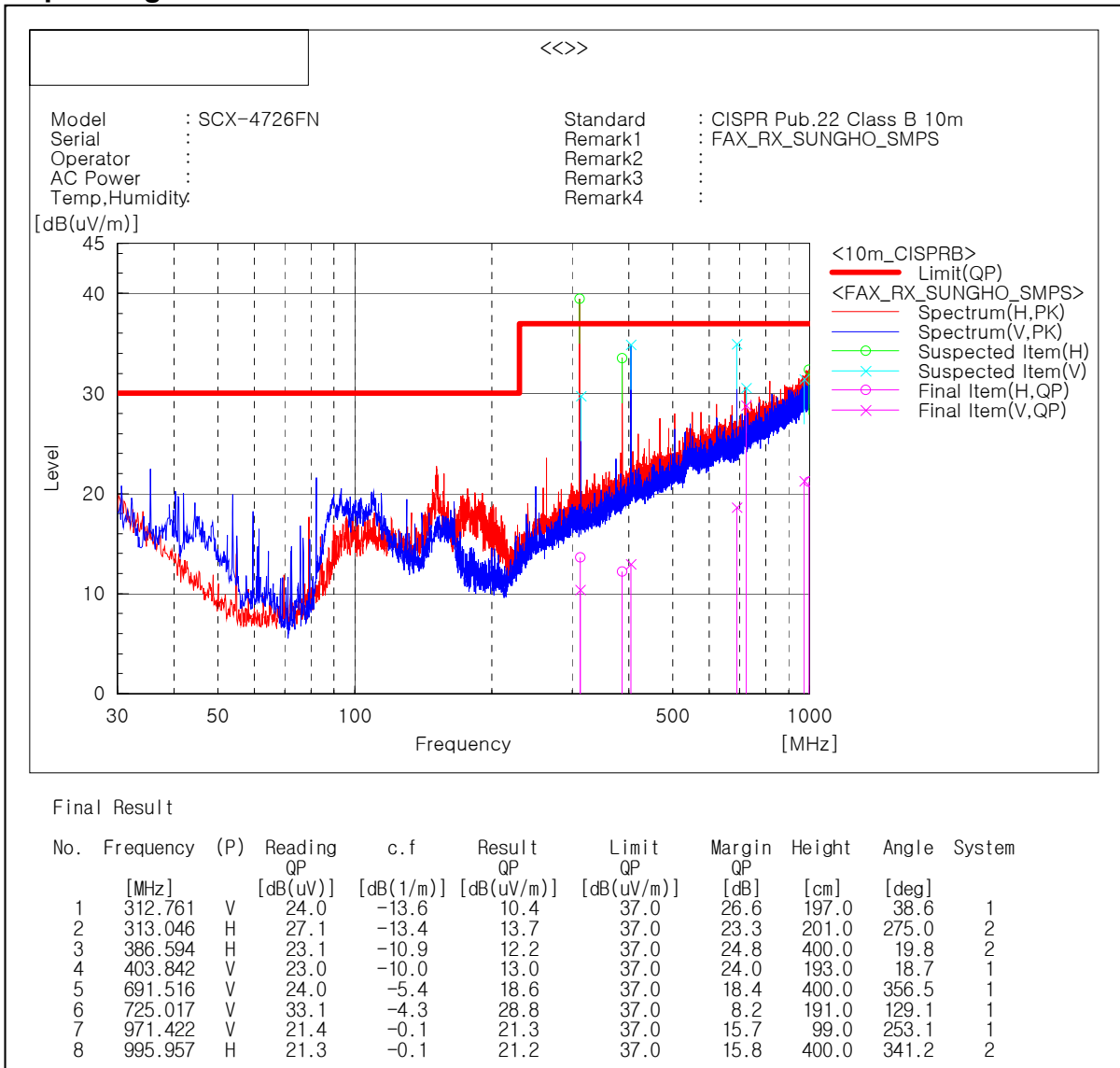
- Operating Mode 4.

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

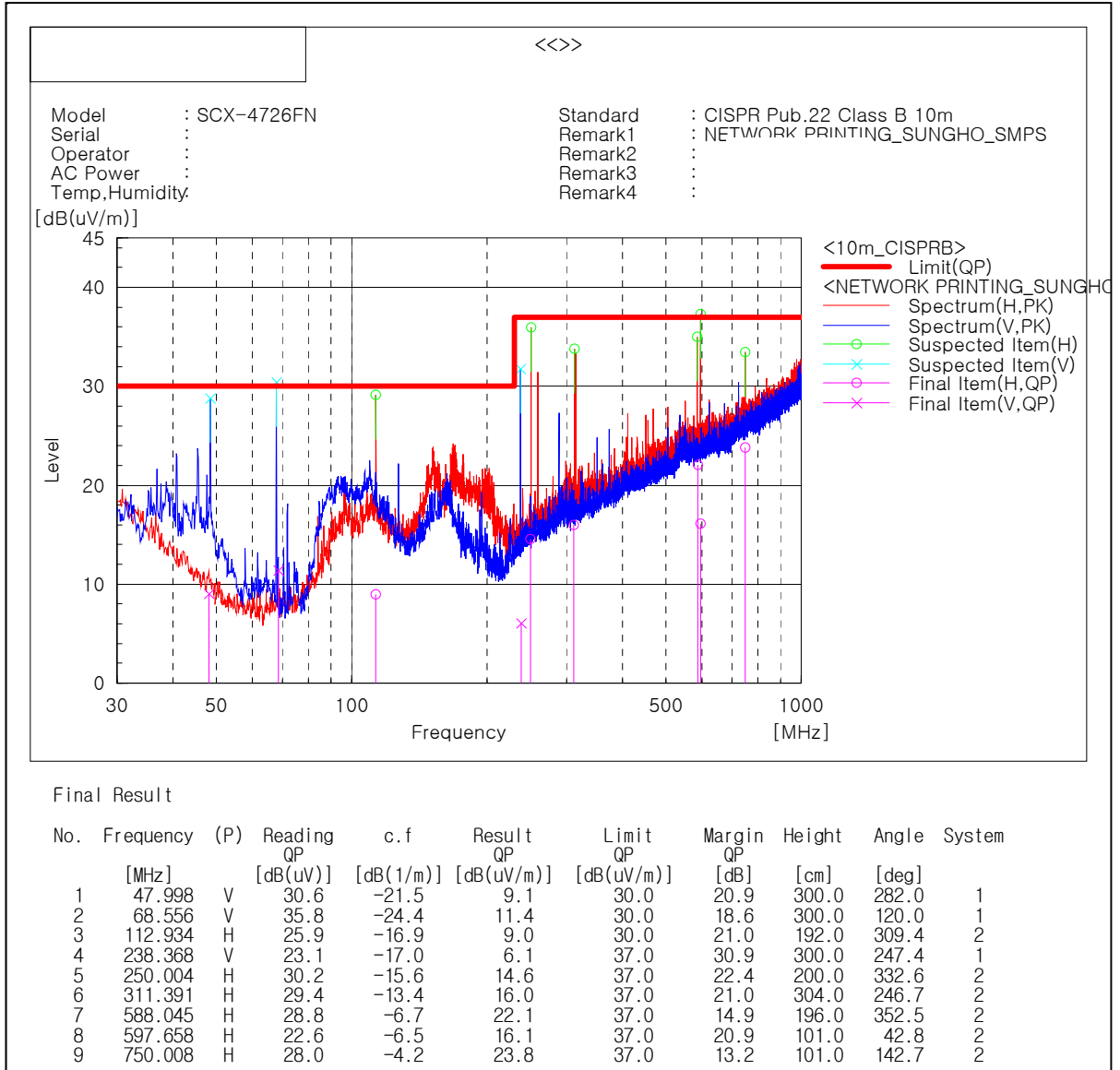
- Operating Mode 5.

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

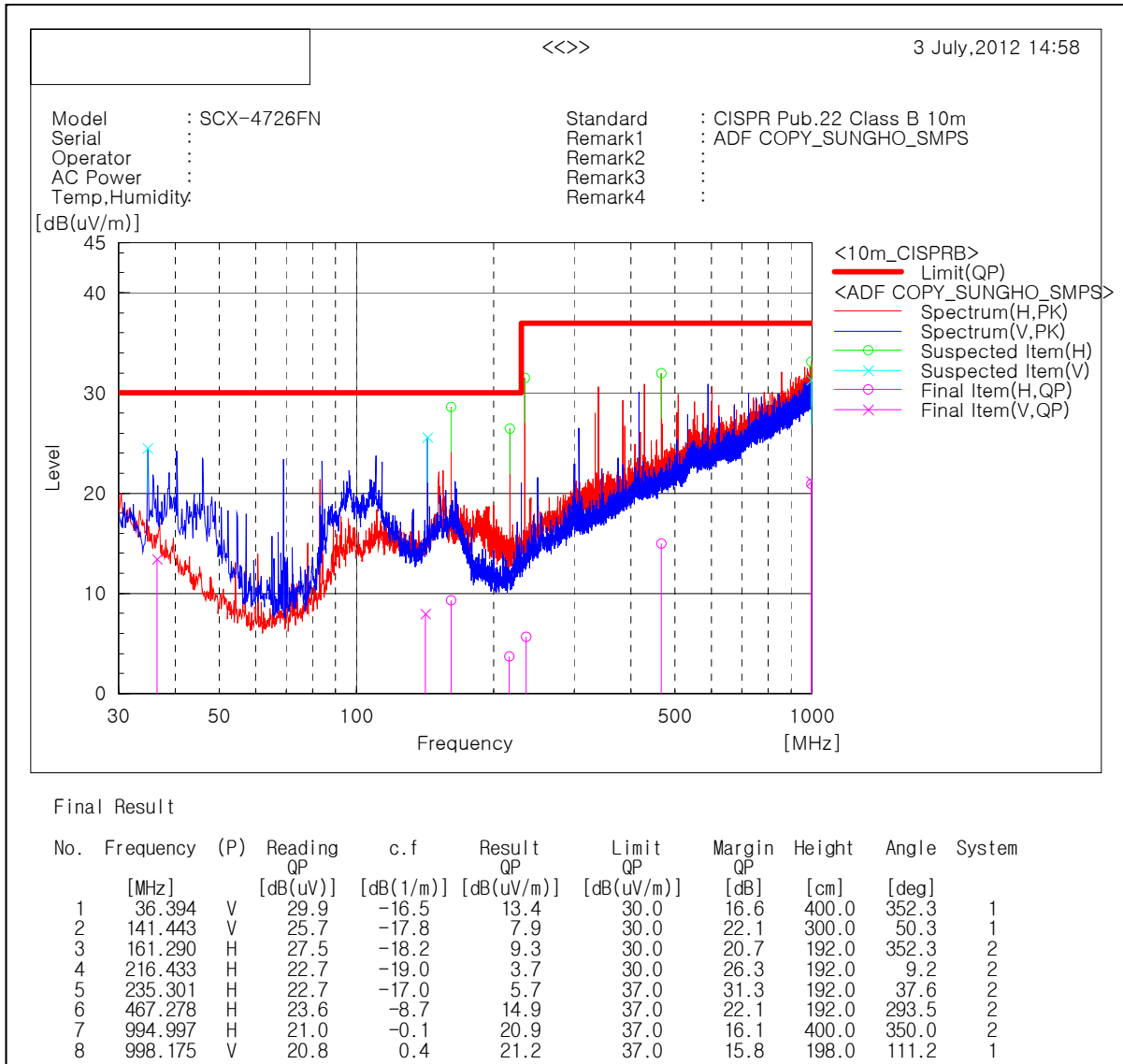
- Operating Mode 6.

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 7.

Note) Receiving antenna polarization : Horizontal and/or Vertical

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

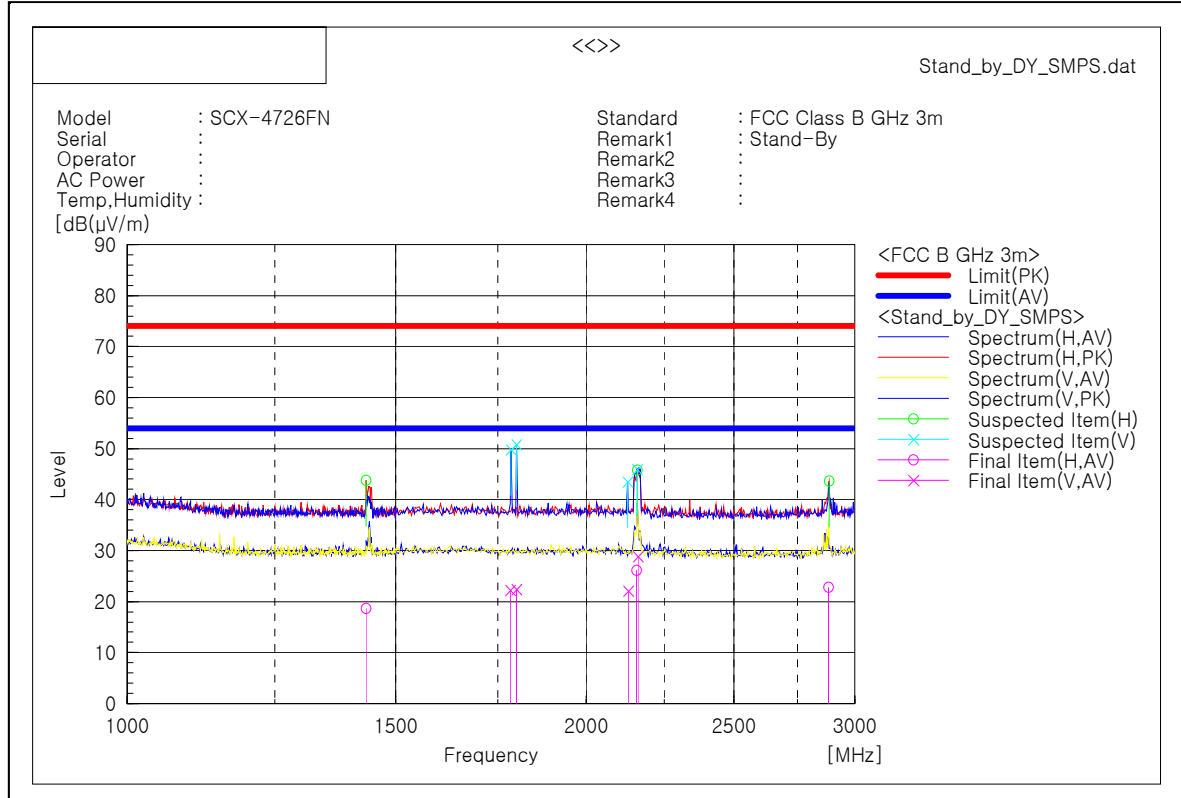
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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

5.2.4.2 1 GHz to 5 GHz test results

Test Graph and Results

- Operating Mode 1.



MEASUREMENT RESULT (Peak):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
1 434.870	H	55.2	-11.5	43.7	74.0	30.3	110.0	61.8
1 785.571	V	59.4	-9.6	49.8	74.0	24.2	109.0	206.0
1 800.601	V	60.5	-9.6	50.9	74.0	23.1	109.0	179.6
2 128.257	V	51.7	-8.2	43.5	74.0	30.5	109.0	311.4
2 161.323	V	54.1	-8.1	46.0	74.0	28.0	109.0	100.6
2 161.323	H	53.9	-8.1	45.8	74.0	28.2	109.0	140.3
2 885.772	H	50.1	-6.4	43.7	74.0	30.3	109.0	192.6

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
1 434.870	H	30.1	-11.5	18.6	54.0	35.4	112.0	62.3
1 782.955	V	32.0	-9.7	22.3	54.0	31.7	111.0	205.3
1 799.910	V	32.0	-9.6	22.4	54.0	31.6	107.0	180.1
2 131.955	V	30.3	-8.2	22.1	54.0	31.9	111.0	310.8
2 158.647	H	34.2	-8.1	26.1	54.0	27.9	111.0	139.6
2 161.714	V	37.0	-8.1	28.9	54.0	25.1	107.0	101.0
2 885.315	H	29.2	-6.4	22.8	54.0	31.2	107.0	192.2

Note 1) Receiving antenna polarization : Horizontal and Vertical

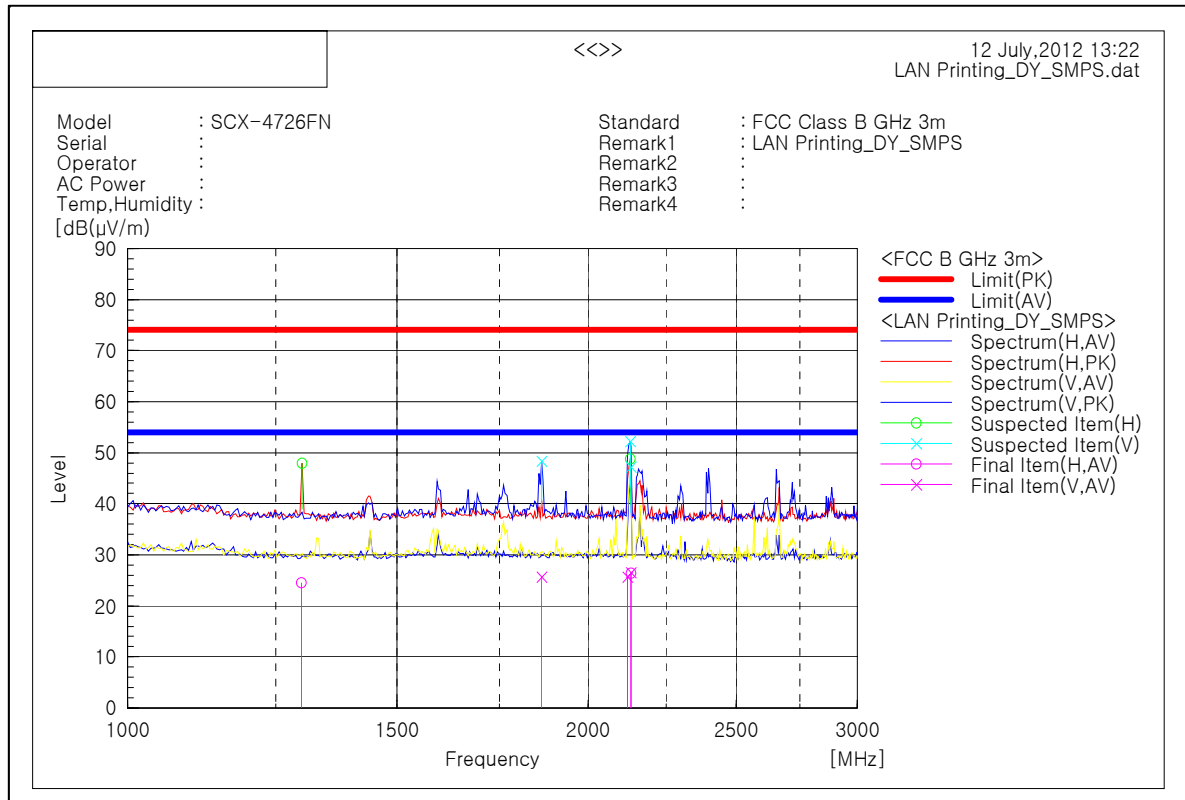
Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

- Operating Mode 2.**MEASUREMENT RESULT (Peak):**

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 134.269	V	55.4	-8.2	55.4	74	26.8	104	338
2 130.261	V	60.4	-8.2	52.2	74	21.8	110	61.2
2 130.261	H	57.0	-8.2	48.8	74	25.2	110	74.5
1 865.732	V	57.6	-9.2	48.4	74	25.6	110	9.9
1 300.601	H	60.1	-12.2	47.9	74	26.1	110	232.5

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 132.987	V	34.8	-8.2	26.6	54	27.4	112	60.9
2 132.746	H	34.6	-8.2	26.4	54	27.6	108	74.5
2 123.487	V	33.9	-8.2	25.7	54	28.3	100	337.7
1 865.652	V	34.9	-9.2	25.7	54	28.3	108	7.3
1 298.476	H	36.8	-12.2	24.6	54	29.4	113	231.7

Note 1) Receiving antenna polarization : Horizontal and Vertical

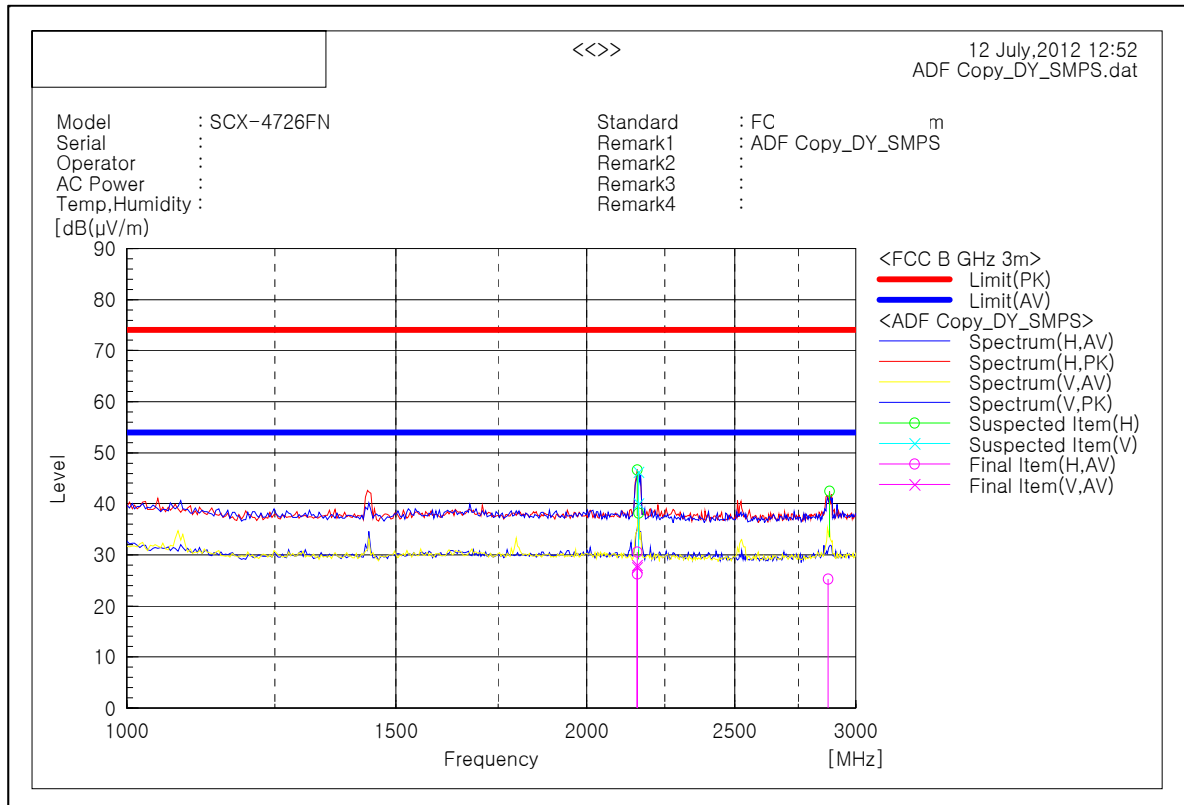
Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

- Operating Mode 3.**MEASUREMENT RESULT (Peak):**

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 158.317	H	54.7	-8.1	46.6	74	27.4	105	126.7
2 162.325	V	54.3	-8.1	46.2	74	27.8	105	140.2
2 162.325	H	46.3	-8.1	46.3	74	35.8	110	100.7
2 883.768	H	48.9	-6.4	42.5	74	31.5	105	179.5

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 158.718	H	38.7	-8.1	30.6	54	23.4	103	126
2 158.718	V	35.7	-8.1	27.6	54	26.4	108	140.7
2 158.718	V	36.1	-8.1	28.0	54	26.0	113	73.5
2 158.718	H	34.3	-8.1	26.2	54	27.8	108	100.6
2 878.558	H	31.6	-6.4	25.2	54	28.8	102	179.5

Note 1) Receiving antenna polarization : Horizontal and Vertical

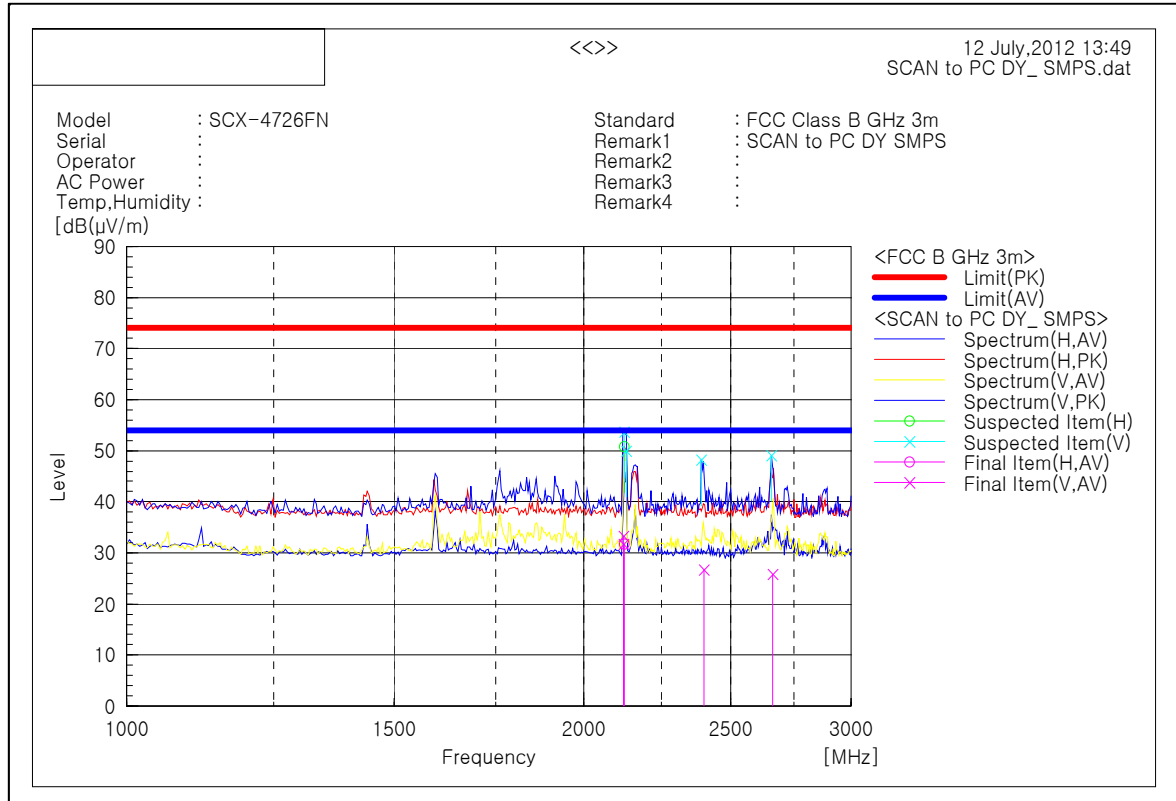
Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

- Operating Mode 4.**MEASUREMENT RESULT (Peak):**

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 126.253	V	62	-8.2	53.8	74	20.2	109	349.3
2 126.253	H	59	-8.2	50.8	74	23.2	109	53.8
2 134.269	V	58.2	-8.2	58.2	74	24.0	104	4.9
2 390.782	V	56.1	-7.9	48.2	74	25.8	109	354.2
2 659.319	V	56.2	-7.2	49.0	74	25.0	109	33.9

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 124.349	V	39.9	-8.2	31.7	54	22.3	100	4.1
2 125.431	V	41.5	-8.2	33.3	54	20.7	111	349.1
2 125.752	H	39.9	-8.2	31.7	54	22.3	108	54.3
2 399.820	V	34.6	-7.9	26.7	54	27.3	111	353.8
2 665.111	V	33.0	-7.2	25.8	54	28.2	106	34.5

Note 1) Receiving antenna polarization : Horizontal and Vertical

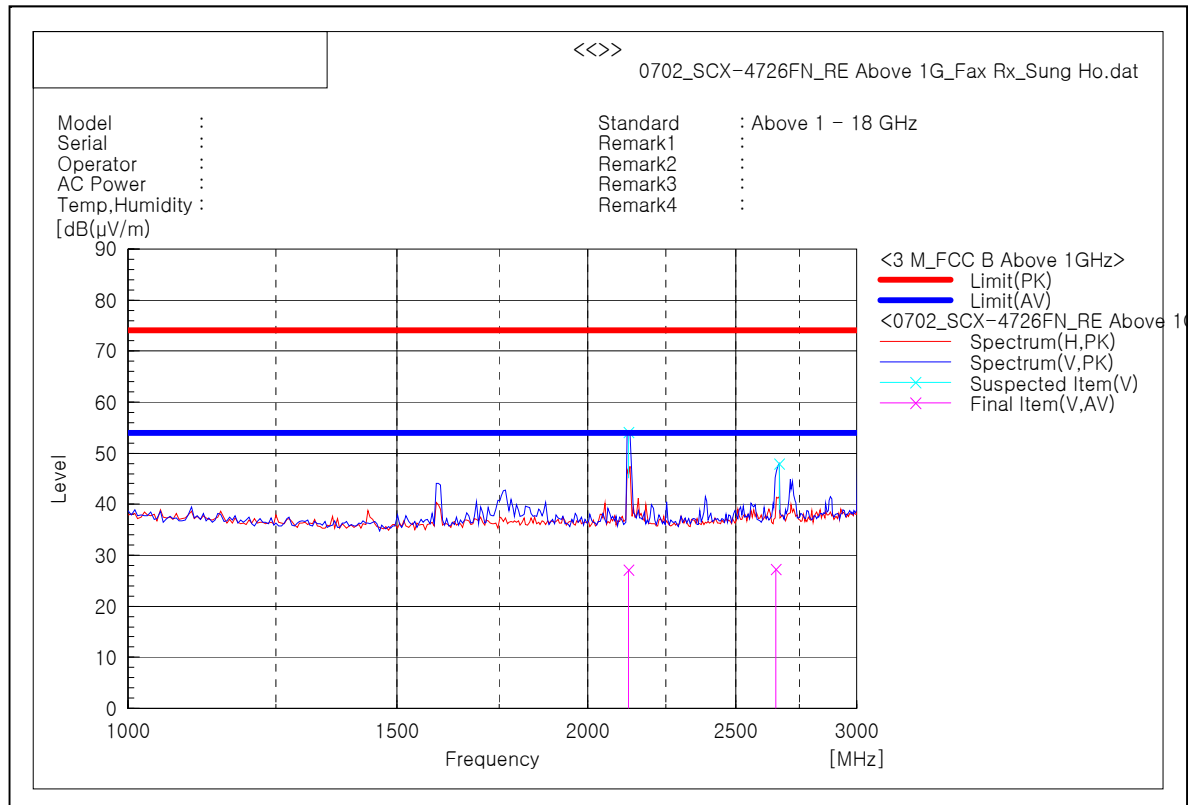
Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

- Operating Mode 5.**MEASUREMENT RESULT (Peak):**

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 127.255	V	62.3	-8.1	54.2	74.0	19.8	108.0	11.1
2 668.337	V	53.9	-5.9	48.0	74.0	26.0	108.0	350.3

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 127.126	V	35.3	-8.1	27.2	54.0	26.8	108.0	11.1
2 655.162	V	33.2	-5.9	27.3	54.0	26.7	108.0	350.3

Note 1) Receiving antenna polarization : Horizontal and Vertical

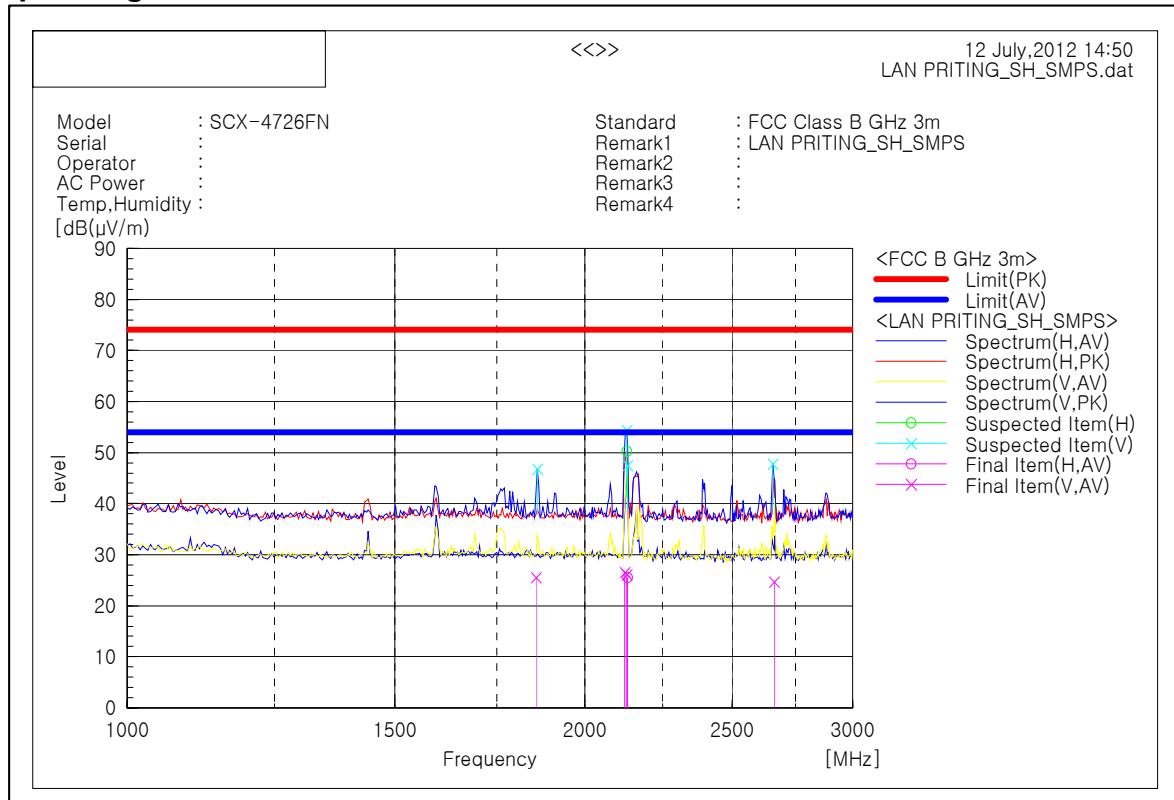
Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

- Operating Mode 6.**MEASUREMENT RESULT (Peak):**

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
1 861.724	V	55.9	-9.2	46.7	74	27.3	106	5.3
2 130.261	V	62.6	-8.2	54.4	74	19.6	106	60.9
2 130.261	H	58.4	-8.2	50.2	74	23.8	106	74
2 134.269	V	55.8	-8.2	55.8	74	26.4	106	350
2 659.319	V	55.0	-7.2	47.8	74	26.2	106	60.9

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
1 857.816	V	34.7	-9.2	25.5	54	28.5	106	5.1
2 125.151	V	34.7	-8.2	26.5	54	27.5	106	60.7
2 130.842	V	34.4	-8.2	26.2	54	27.8	106	349.4
2 132.726	H	33.8	-8.2	25.6	54	28.4	106	74.3
2 663.868	V	31.9	-7.2	24.7	54	29.3	106	61.3

Note 1) Receiving antenna polarization : Horizontal and Vertical

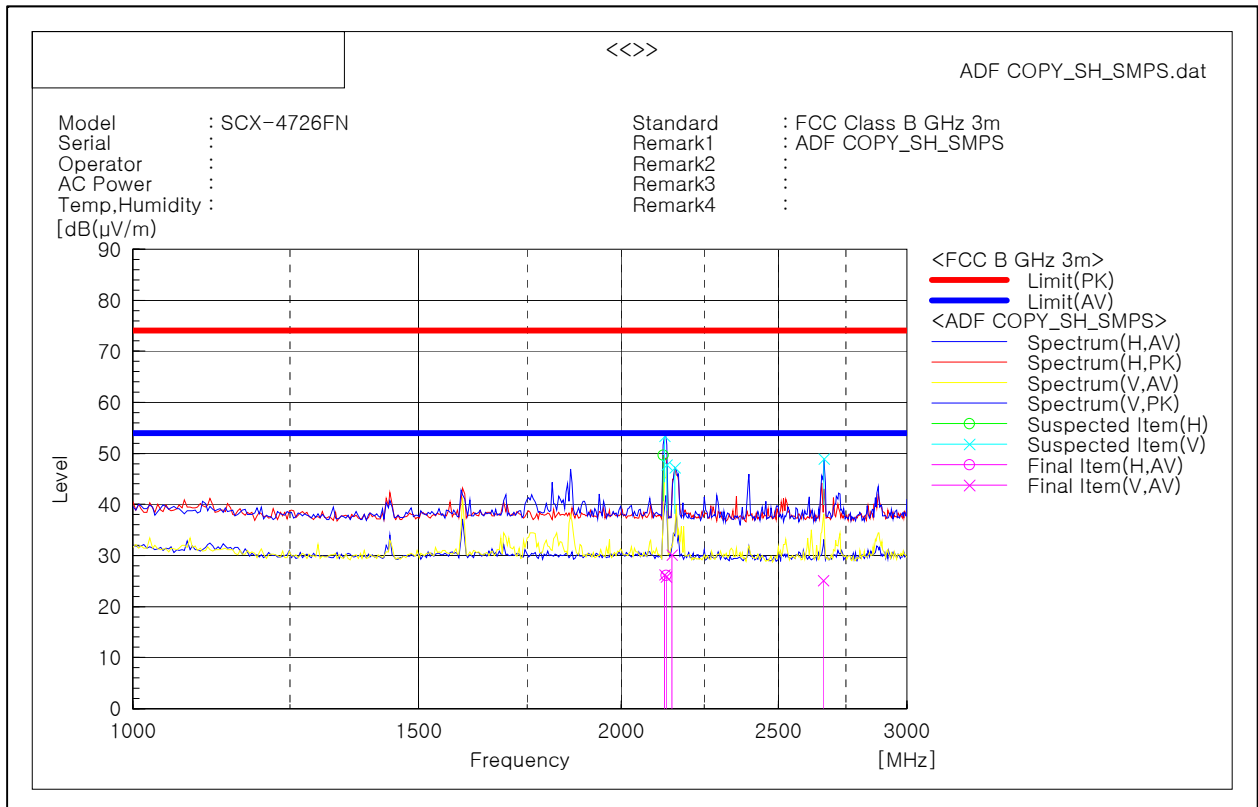
Level PK (Peak) = Reading PK (Peak) + Factor (Antenna Factor + Cable Loss - Amp. Gain)

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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

- Operating Mode 7.**MEASUREMENT RESULT (Peak):**

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 122.245	H	57.9	-8.2	49.7	74	24.3	106	74
2 126.253	V	61.5	-8.2	53.3	74	20.7	106	61.3
2 134.269	V	55.9	-8.2	55.9	74	26.3	106	349.5
2 158.317	V	55.3	-8.1	47.2	74	26.8	106	126.9
2 667.335	V	56.1	-7.2	48.9	74	25.1	106	5.1

MEASUREMENT RESULT (Average):

Frequency MHz	Pol.	Reading dBuV	Factor dB(1/m)	Level dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg
2 131.924	H	34.3	-8.2	26.1	54	27.9	106	74.2
2 131.484	V	34.1	-8.2	25.9	54	28.1	106	60.8
2 127.956	V	34.5	-8.2	26.3	54	27.7	106	349
2 149.840	V	38.2	-8.1	30.1	54	23.9	106	127.2
2 664.870	V	32.3	-7.2	25.1	54	28.9	106	5.1

Note 1) 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)

Note 2) The measurement was done up to 5 GHz instead of 1 GHz to 2 GHz because of customer's request.

Appendix – EUT photography



1. Front Side



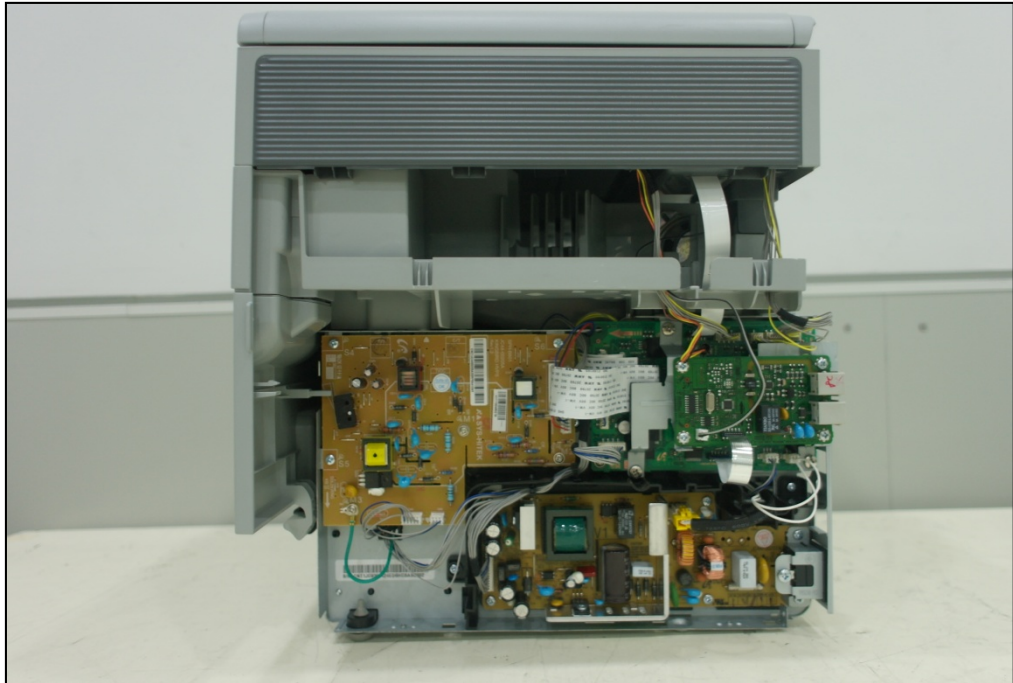
2. Rear Side & Label location



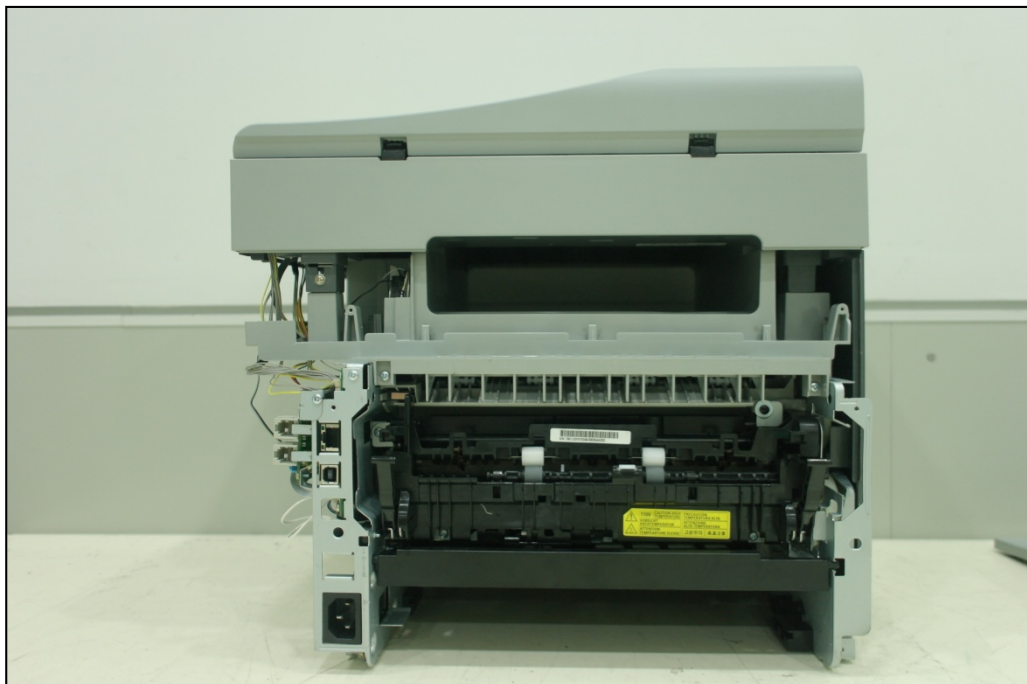
3. Left Side



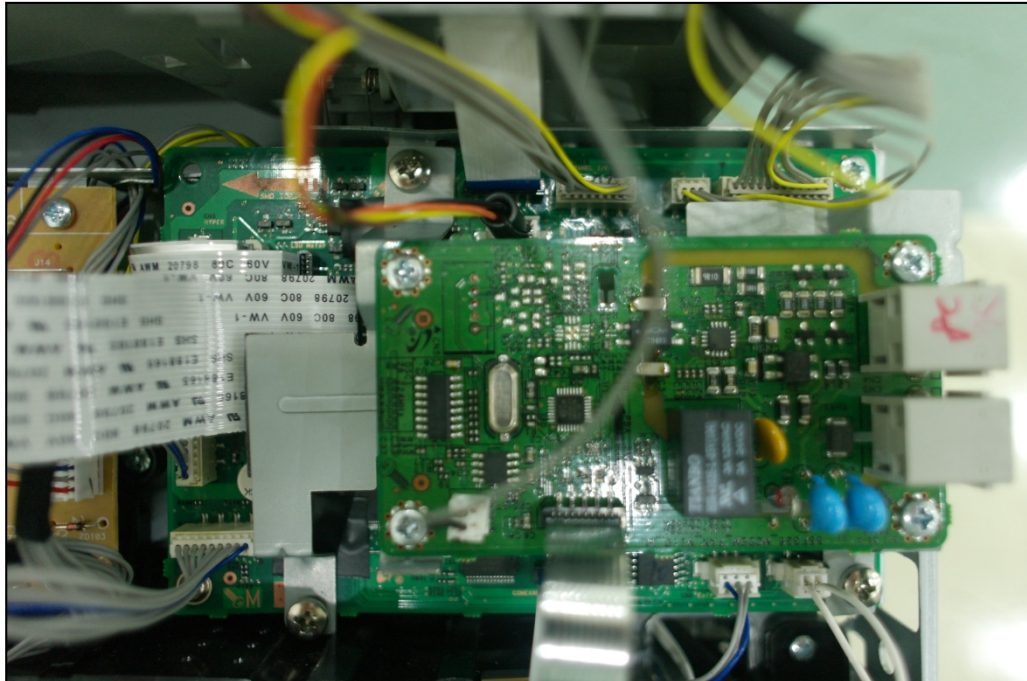
4. Right Side



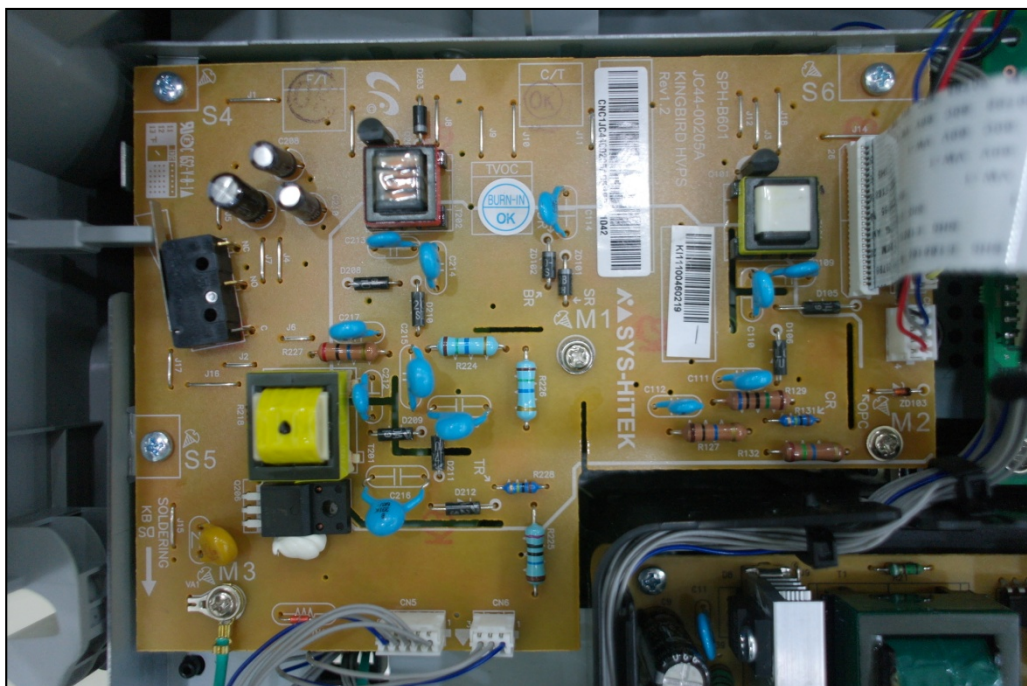
5. Inside View # 1



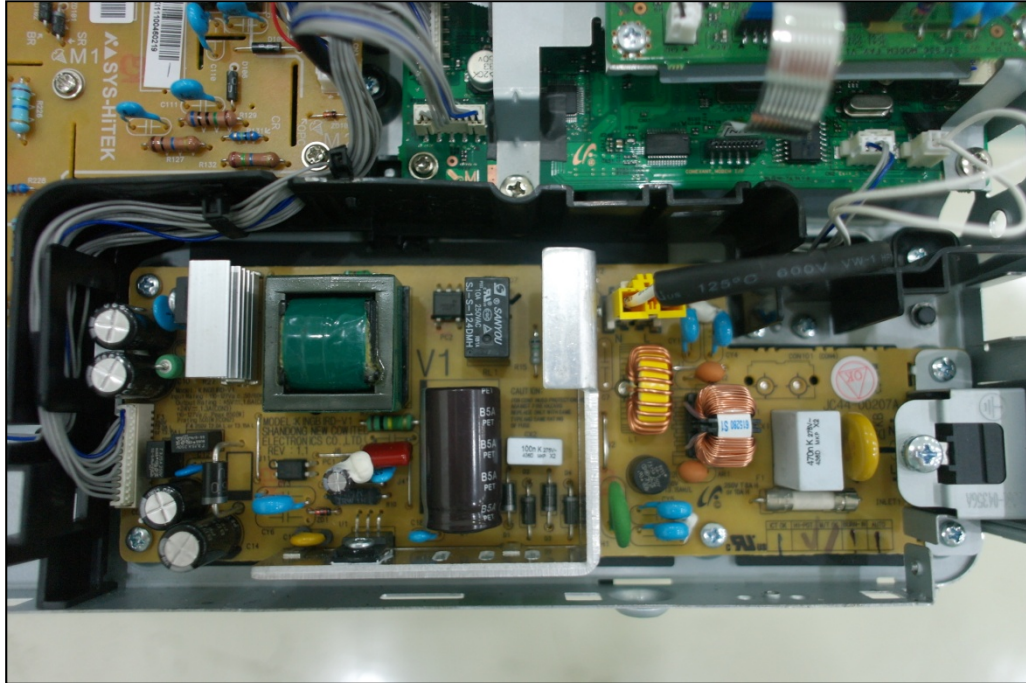
6. Inside View # 2



7. Inside View # 3 (MAIN & FAX Board)



8. Inside View # 4 (HVPS Board)



9. Inside View # 5 (SMPS)

 USOC Jack Type: RJ11C Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M264	Model: SCX-4726FN	FCC ID : A3LSCX4726FN
	Volts: AC 110-127V	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: i) This device may not cause harmful interference, and ii) This device must accept any interference received, including interference that may cause undesired operation. Complies with Part 68, FCC Rules. FCC Certification No.: US: A3LFA00BSCX4726FN This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe B est Conforme à la norme NMB-003 du Canada. This product complies with 21 CFR Chapter 1, subchapter J. IC: 649E-SCX4726FN
Hertz: 50/60 Hz		
Amps: 5.5A		
Ringer Equivalence: 0.0B		
Manufactured:		
	3U07 E337632 I.T.E.	
Serial No.:	Made in China Fabriqu� en Chine REV.00	

10. LABEL