EMC TEST REPORT

Project No.	LBE20143331	**Issue No.**	0
Applicant	**Name of organization**	**Samsung Electronics Co., Ltd.**	
	Address	(Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 Korea	
	Date of application	April 9, 2014	
EUT	**Type of device**	Class B personal computers and peripherals	
	Equipment authorization	☐ Declaration of Conformity ☒ Certification ☐ Verification	
	FCC ID	**A3LSLC2670FW**	
	Kind of product	**Multi Function Printer**	
	Model No.	**ProXpress C2670FW**	
	Variant Model No.	-	
	Manufacturer	**1) Samsung Electronics (Shandong) Digital Printing Co., Ltd.** Samsung Road, Weihai Hi-Tech. IDZ, Weihai City, Shandong Province, China **2) Weihai Xinxing Digital Electronics Co., Ltd.** 98, Jinzhou Road, Weihai Hi-Tech Industries Development Zone **3) Intops (Weihai) Electronics Company Ltd.** No.268-1, Keji Road, Weihai Hi-tech IDZ, Shandong Province,P.R.China **4) Samsung Electronics Suzhoz Computer Co., Ltd.** 318 Fangzhou Road , Suzhou Industrial Park, Jiangsu Province, China	
Applied Standards		47 CFR Part 15, Subpart B / ANSI C63.4-2009	
		ICES-003 Issue 5	
Test Period		April 9, 2014 ~ April 11, 2014	
Issue date		June 2, 2014	

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 : Su Young Son

Reviewed by : Min Gon Kim

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.

SAMSUNG

(Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si,Gyeonggi-Do 443-742 Korea
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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)

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

1.2.2 Radiated disturbance (at 100 MHz)

- Limit = 30 dBμV/m at 10 m
- Level (20 dBμV/m)

  = Meter Reading (40 dBμV) + Factor (- 20 dB (1/m) = antenna factor + cable loss – amplifier gain)
- Margin (10 dB) = Limit (30 dBμV/m) - Level (20 dBμV/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)	47 CFR Part 15 Subpart B / ANSI C63.4-2009 (☐ Class A, ☒ Class B)	Complied
☒	Radiated Disturbance		Complied

- Note : These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference – Causing Equipment Regulations

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3. General Information

3.1 Test facility

The CS & Environment center is located on Samsung Electronics Co., Ltd. at (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 443-742 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 configuration

4.1.1 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:

Description	Model No.	Serial No.	Manufacturer	Fcc ID / DoC
Multi Function Printer	ProXpress C2670FW	-	SAMSUNG	A3LSLC2670FW
Note PC	PP18L	27182225373	DELL	DoC
Docking	PD01X	CN-OHD026-48643-83K-2196	DELL	DoC
PS/2 Mouse	M-S48a	LZA00153189	Logitech	DoC
Serial Mouse	-	-	RadioShack	DoC
USB Memory	16 GB USB	-	Transcend	DoC
Telephone	SP-F209	KKAR213552	SAMSUNG	DoC

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4.1.2 Test cables

Connected cable	Length [m]	Shielded [Y/N]	Number of Ferrite Core	Note
Power	1.8	No	-	For EUT
Power	1.8	No	-	For Note PC
USB(1284B)	1.8	Yes	2	From EUT to PC
PS/2	1.8	Yes	-	From PC to Mouse
Serial	1.8	Yes	-	From PC to Serial
TEL	2.0	No	-	From EUT to keyphone system
TEL	2.0	No	-	From EUT to Telephones
LAN	2.0	No	1	From EUT to Local Area Network
LAN	2.0	No	-	From PC to Local Area Network

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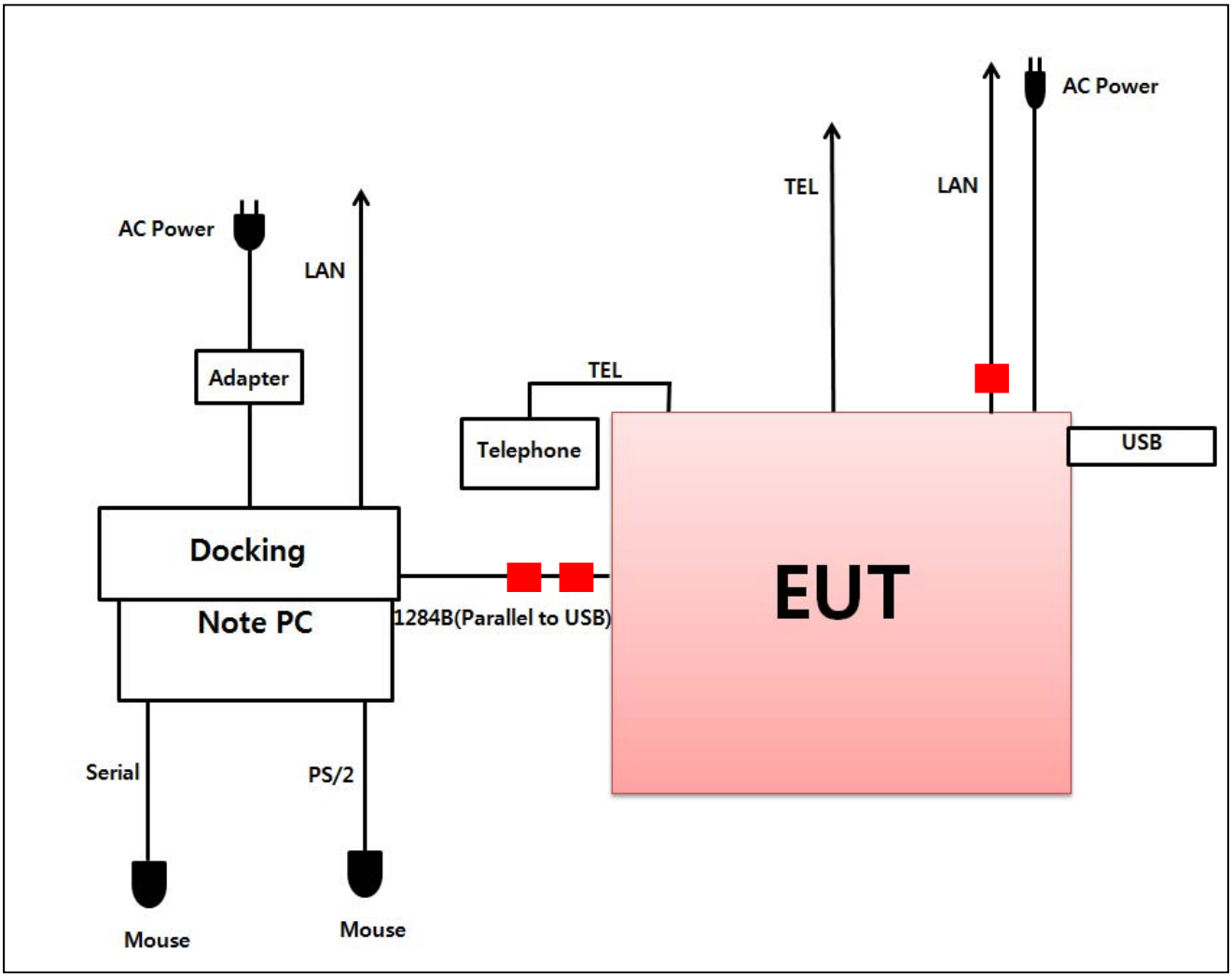
4.1.3 Test arrangement



■ : Ferrite Core

4.2 EUT operating mode

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

Operating Mode 1 (Test mode)	Standby
Operating Mode 2 (Test mode)	[1] DSDF Copy
Operating Mode 3 (Test mode)	USB Printing
Operating Mode 4 (Test mode)	FAX Tx

[1] **DSDF : D**ual **S**can **D**ocument **F**eeder

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4.3 Details of Sampling

Customer selected, single unit.

4.4 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
CPU internal clock	533	DDR3 clock	377
Video clock	27.3	Main source clock	12
USB device clock	12	RTC Clock	0.032768

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4.5 EUT Description

The following features describe EUT represented by this report:

Item	Specification and Description
Processor	533MHz Dual CPU
Standard System memory	512MB DDR3 on all configurations (Default) 1GB(max) Customer Installable Option
Resolution	Up to 9600 x 600 dpi
Speed	26/26PPM (Color/Mono)
Paper Handling	Paper Tray(standard) 250 Sheets 2nd Paper Tray (optional) 520 Sheets Bypass Tray 50 Sheets
Power Rating	110VAC ~ 127ACV, 8A, 50/60 Hz
Power Consumption	Power save mode : 2.5 Watts Standby mode : 20 Watts Printing simplex : 850 Watts
Printer Language	PCL5C/6, PostScript 3, PDF V1.7, SPL-C (Samsung Print Language)
Interfaces	Hi-Speed USB 2.0, Gigabit Ethernet, Direct USB, Wireless 802.11 b/g/n, WiFi Direct
OS compatibility	Windows (32/64-bit) 2000/XP/2003/2008 Server/Vista, Windows 7, Windows 8, Various Linux OS, Mac OS X 10.3 ~ 10.9
Modes of Operation	Standby, USB Printing, Wireless Printing, Network Printing, RADF Copy, RADF Scan, FAX Tx, FAX Rx
Intended Class for Emissions	Class B

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4.6 Test configuration and condition

Item	Model Name	P/N	Manufacturer
SMPS #1	PSPN-Type3R-V1	JC44-00222A	SUNG HO Electronics
SMPS #2	PSPN-Type3R-V1	JC44-00222A	DONG YANG E&P

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.

The EUT was connected to a remote PC through the Ethernet port with Unshielded Twisted Pair Ethernet cable.

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

- Test Voltage : AC 120 V, 60 Hz

Two different types of SMPS, Sung ho and Dong yang were applied
During testing Each SMPS was installed for testing, tested and reported.

- Configuration 1 : SMPS #1 was applied.
- Configuration 2 : SMPS #2 was applied.

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4.7 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.)

4.7.1 Emission

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	Main terminal (ENV216)	2.95 dB
Radiated Disturbance (Below 1 GHz)	Horizontal	4.69 dB
	Vertical	4.83 dB
Radiated Disturbance (Above 1 GHz)	Horizontal	5.47 dB
	Vertical	5.45 dB

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5. Results of individual test

5.1 Conducted disturbance

The EUT was directly powered from one LISN(Two-Line V-Network) for the measurements. The support equipment power cables were connected to a second LISN(Two-Line V-Network). 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 dBµV	
		Quasi-peak	C/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.			

If the reading on the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 seconds at each measurement frequency, the highest reading shall be recorded, with the exception of any brief isolated high reading (which shall be ignored).

5.1.1 Test instrumentation

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
EMI TEST RECEIVER	ESU	R&S	100482	2013-08-29	12
Two-Line V-Network	ENV216	R&S	101369	2013-11-17	12
Two-Line V-Network	ENV216	R&S	101366	2013-07-28	12
Test Software	EMC32	R&S	Ver 8.53.0	-	-

5.1.2 Temperature and humidity condition

Test date	April 11, 2014	**Test engineer**	Su Young Son	
Climate condition	**Ambient temperature**	23.9 ℃	**Relative humidity**	36 %
	Atmospheric pressure	101.3 kPa		
Test place	Shielded Room #8			

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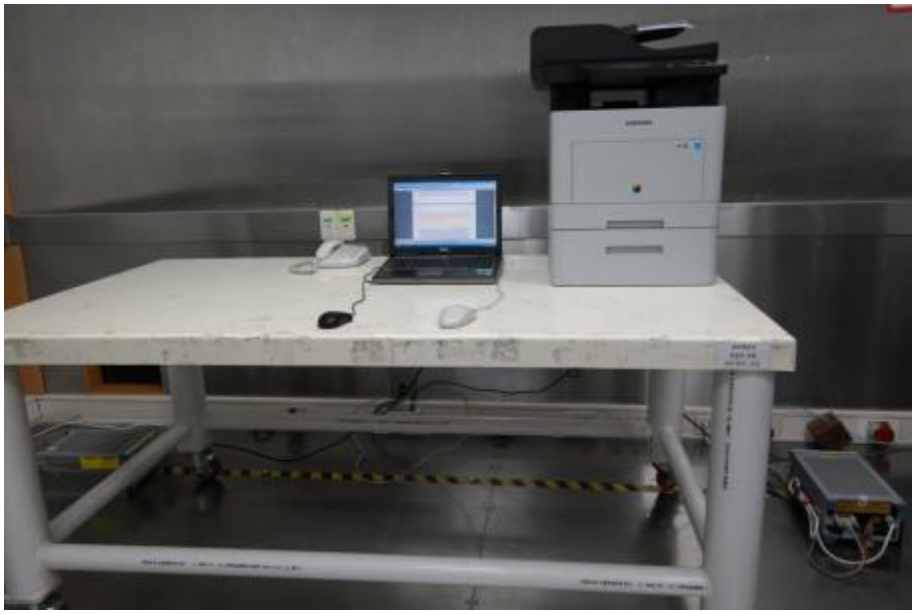
5.1.3 Photograph of Test Setup



Front

Rear

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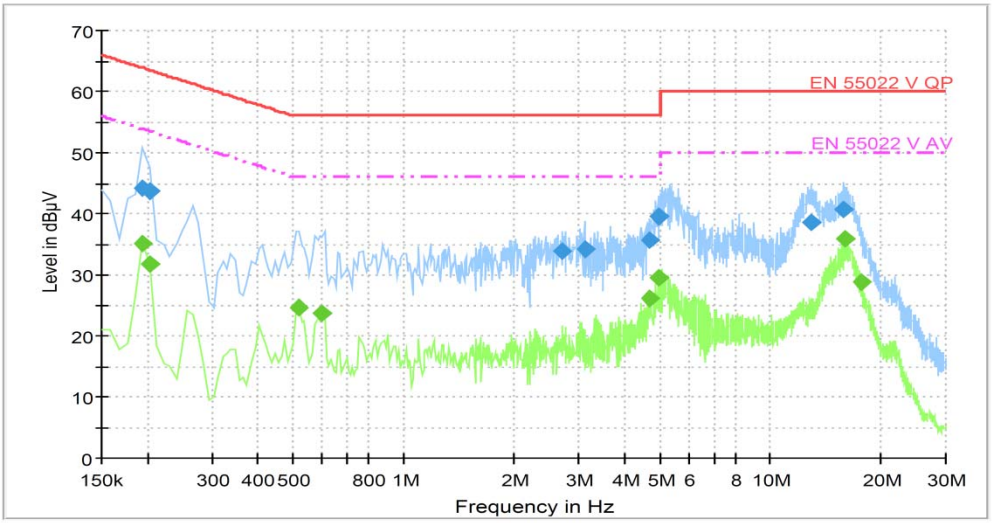
5.1.4 Test results (mains port)

- Configuration 1 : Standby



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	44.2	5000.0	9.000	On	N	10.0	19.60	63.80
0.204000	43.7	5000.0	9.000	On	N	10.0	19.70	63.40
2.706000	33.9	5000.0	9.000	On	N	9.7	22.10	56.00
3.111000	34.0	5000.0	9.000	On	N	9.7	22.00	56.00
4.695000	35.5	5000.0	9.000	On	N	9.8	20.50	56.00
4.983000	39.4	5000.0	9.000	On	N	9.8	16.60	56.00
12.966000	38.6	5000.0	9.000	On	N	9.9	21.40	60.00
15.882000	40.7	5000.0	9.000	On	L1	9.8	19.30	60.00

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	35.2	5000.0	9.000	On	N	10.0	18.60	53.80
0.204000	31.7	5000.0	9.000	On	N	10.0	21.80	53.40
0.519000	24.7	5000.0	9.000	On	N	10.0	21.30	46.00
0.600000	23.6	5000.0	9.000	On	L1	10.0	22.40	46.00
4.677000	26.1	5000.0	9.000	On	N	9.8	19.90	46.00
4.938000	29.6	5000.0	9.000	On	L1	9.7	16.40	46.00
16.017000	35.8	5000.0	9.000	On	L1	9.8	14.20	50.00
17.772000	28.7	5000.0	9.000	On	L1	9.9	21.30	50.00

Note1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph. 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is C/Average final measurement results table.

Note2) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor(Corr.)

Note3) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note4) Factor = LISN Insertion Loss + Cable Loss

Note5) Margin = Limit – Level (Quasi-Peak and/or C/Average)

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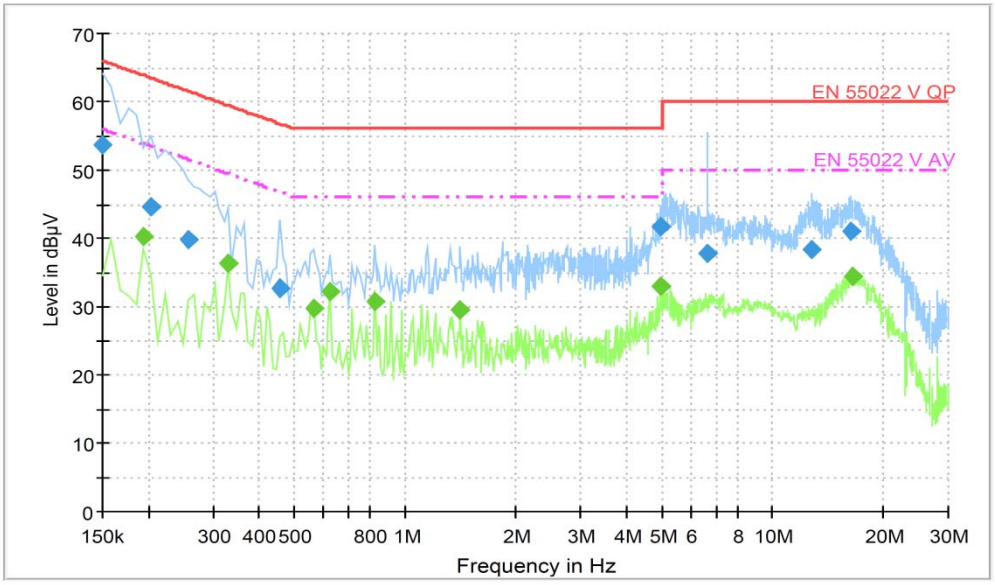
- Configuration 1 : DSDF Copy



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	53.6	5000.0	9.000	On	L1	9.9	12.40	66.00
0.204000	44.7	5000.0	9.000	On	L1	10.0	18.70	63.40
0.258000	39.8	5000.0	9.000	On	N	10.0	21.70	61.50
0.456000	32.6	5000.0	9.000	On	L1	10.0	24.20	56.80
4.983000	41.7	5000.0	9.000	On	N	9.8	14.30	56.00
6.639000	37.7	5000.0	9.000	On	N	9.8	22.30	60.00
12.777000	38.3	5000.0	9.000	On	N	9.9	21.70	60.00
16.251000	40.9	5000.0	9.000	On	L1	9.8	19.10	60.00

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	40.2	5000.0	9.000	On	N	10.0	13.60	53.80
0.330000	36.4	5000.0	9.000	On	N	10.0	13.00	49.50
0.564000	29.7	5000.0	9.000	On	N	10.0	16.30	46.00
0.627000	32.2	5000.0	9.000	On	N	10.0	13.80	46.00
0.825000	30.7	5000.0	9.000	On	N	9.9	15.30	46.00
1.410000	29.4	5000.0	9.000	On	N	9.8	16.60	46.00
4.938000	33.0	5000.0	9.000	On	N	9.8	13.00	46.00
16.575000	34.4	5000.0	9.000	On	L1	9.9	15.60	50.00

Note1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph. 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is C/Average final measurement results table.

Note2) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor(Corr.)

Note3) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note4) Factor = LISN Insertion Loss + Cable Loss

Note5) Margin = Limit – Level (Quasi-Peak and/or C/Average)

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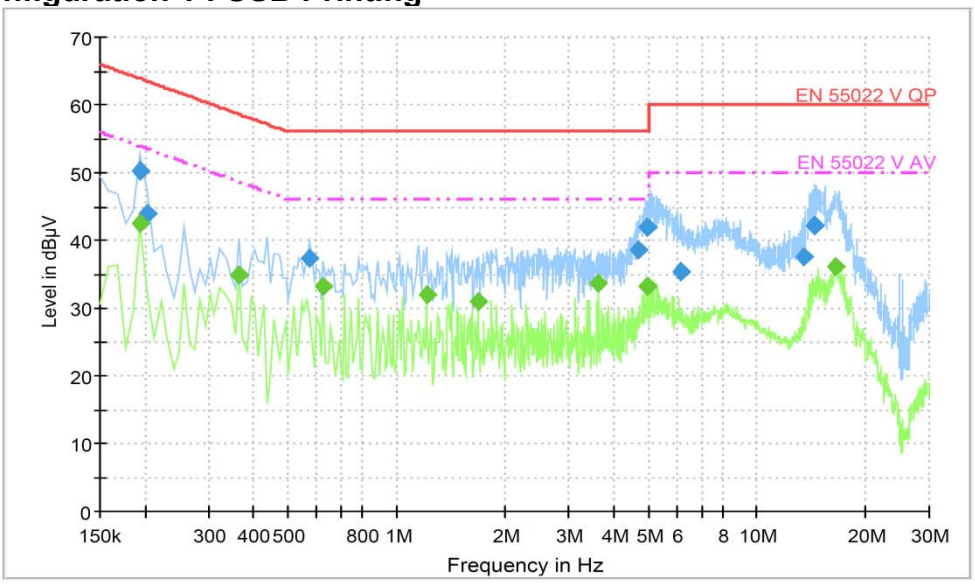
- Configuration 1 : USB Printing



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	50.3	5000.0	9.000	On	L1	10.0	13.50	63.80
0.204000	43.9	5000.0	9.000	On	L1	10.0	19.50	63.40
0.573000	37.2	5000.0	9.000	On	N	10.0	18.80	56.00
4.677000	38.6	5000.0	9.000	On	N	9.8	17.40	56.00
4.965000	42.1	5000.0	9.000	On	L1	9.7	13.90	56.00
6.171000	35.5	5000.0	9.000	On	N	9.7	24.50	60.00
13.470000	37.7	5000.0	9.000	On	N	9.9	22.30	60.00
14.496000	42.3	5000.0	9.000	On	N	9.9	17.70	60.00

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	42.4	5000.0	9.000	On	L1	10.0	11.40	53.80
0.366000	34.9	5000.0	9.000	On	L1	10.0	13.70	48.60
0.627000	33.2	5000.0	9.000	On	L1	10.0	12.80	46.00
1.212000	32.0	5000.0	9.000	On	N	9.8	14.00	46.00
1.680000	31.0	5000.0	9.000	On	N	9.8	15.00	46.00
3.633000	33.7	5000.0	9.000	On	L1	9.7	12.30	46.00
4.938000	33.3	5000.0	9.000	On	L1	9.7	12.80	46.00
16.467000	36.2	5000.0	9.000	On	L1	9.9	13.80	50.00

Note1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph. 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is C/Average final measurement results table.

Note2) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor(Corr.)

Note3) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note4) Factor = LISN Insertion Loss + Cable Loss

Note5) Margin = Limit – Level (Quasi-Peak and/or C/Average)

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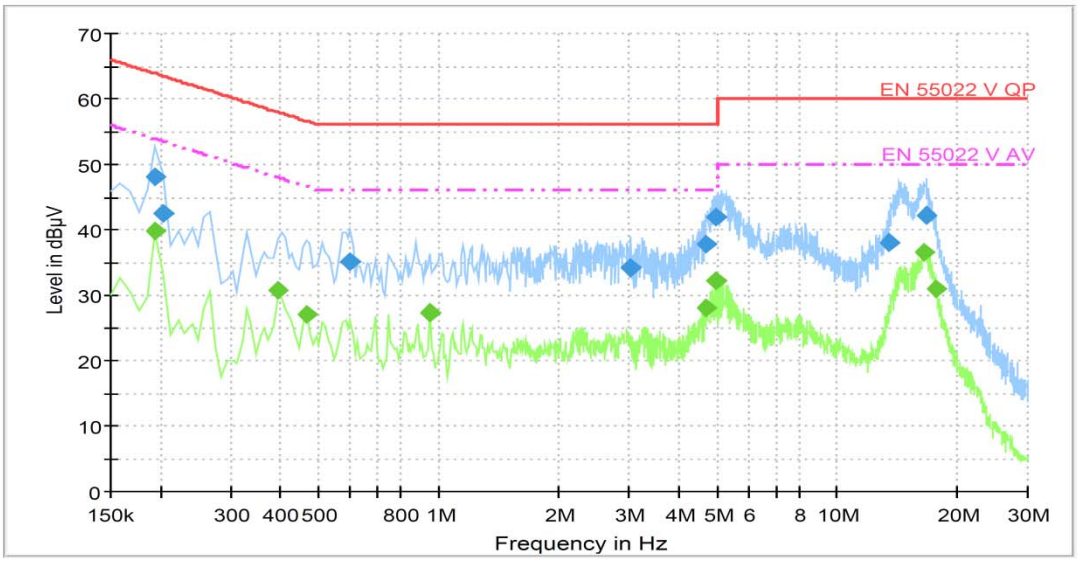
- Configuration 1 : FAX Tx



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	48.0	5000.0	9.000	On	L1	10.0	15.80	63.80
0.204000	42.5	5000.0	9.000	On	L1	10.0	20.90	63.40
0.600000	35.1	5000.0	9.000	On	N	10.0	20.90	56.00
3.039000	34.1	5000.0	9.000	On	L1	9.7	21.90	56.00
4.677000	37.8	5000.0	9.000	On	L1	9.7	18.20	56.00
4.983000	41.9	5000.0	9.000	On	L1	9.7	14.10	56.00
13.542000	38.1	5000.0	9.000	On	N	9.9	21.90	60.00
16.719000	42.2	5000.0	9.000	On	L1	9.9	17.80	60.00

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	39.7	5000.0	9.000	On	N	10.0	14.10	53.80
0.393000	30.7	5000.0	9.000	On	N	10.0	17.30	48.00
0.465000	27.0	5000.0	9.000	On	N	10.0	19.60	46.60
0.951000	27.3	5000.0	9.000	On	N	9.9	18.70	46.00
4.677000	28.0	5000.0	9.000	On	L1	9.7	18.00	46.00
4.938000	32.2	5000.0	9.000	On	N	9.8	13.80	46.00
16.602000	36.5	5000.0	9.000	On	L1	9.9	13.50	50.00
17.682000	30.9	5000.0	9.000	On	L1	9.9	19.10	50.00

Note1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph. 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is C/Average final measurement results table.

Note2) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor(Corr.)

Note3) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note4) Factor = LISN Insertion Loss + Cable Loss

Note5) Margin = Limit – Level (Quasi-Peak and/or C/Average)

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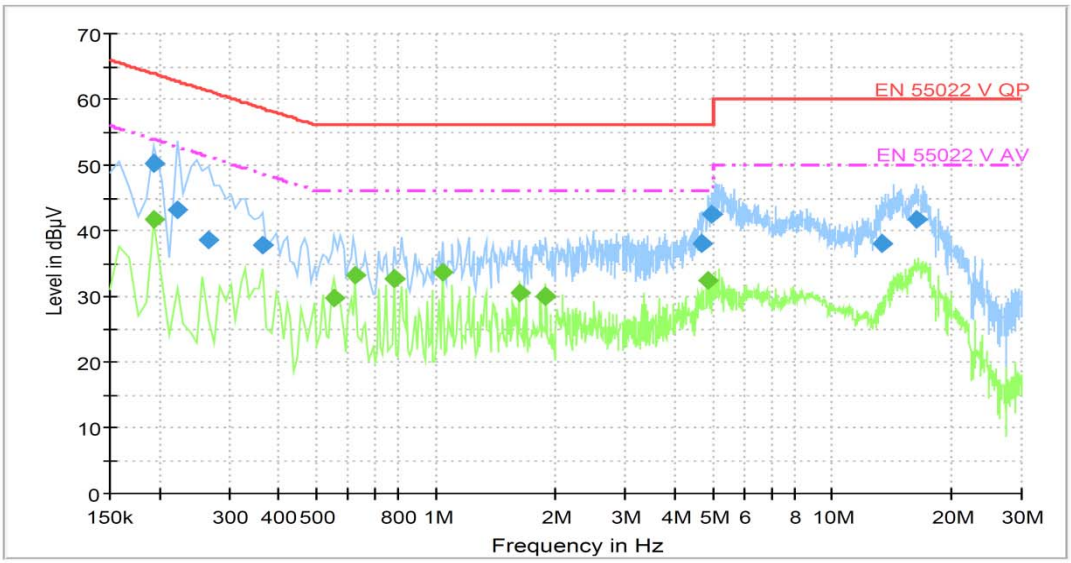
- Configuration 2 : DSDF Copy



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	50.3	5000.0	9.000	On	N	10.0	13.50	63.80
0.222000	43.2	5000.0	9.000	On	N	10.0	19.60	62.70
0.267000	38.5	5000.0	9.000	On	N	10.0	22.70	61.20
0.366000	37.8	5000.0	9.000	On	N	10.0	20.80	58.60
4.686000	37.9	5000.0	9.000	On	N	9.8	18.10	56.00
4.983000	42.6	5000.0	9.000	On	N	9.8	13.40	56.00
13.344000	38.0	5000.0	9.000	On	N	9.9	22.00	60.00
16.422000	41.7	5000.0	9.000	On	L1	9.9	18.30	60.00

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	41.7	5000.0	9.000	On	N	10.0	12.20	53.80
0.555000	29.8	5000.0	9.000	On	N	10.0	16.20	46.00
0.627000	33.2	5000.0	9.000	On	N	10.0	12.80	46.00
0.780000	32.6	5000.0	9.000	On	N	9.9	13.40	46.00
1.041000	33.7	5000.0	9.000	On	N	9.8	12.30	46.00
1.626000	30.6	5000.0	9.000	On	L1	9.8	15.40	46.00
1.887000	30.1	5000.0	9.000	On	N	9.7	15.90	46.00
4.875000	32.4	5000.0	9.000	On	N	9.8	13.60	46.00

Note1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph. 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is C/Average final measurement results table.

Note2) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor(Corr.)

Note3) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note4) Factor = LISN Insertion Loss + Cable Loss

Note5) Margin = Limit – Level (Quasi-Peak and/or C/Average)

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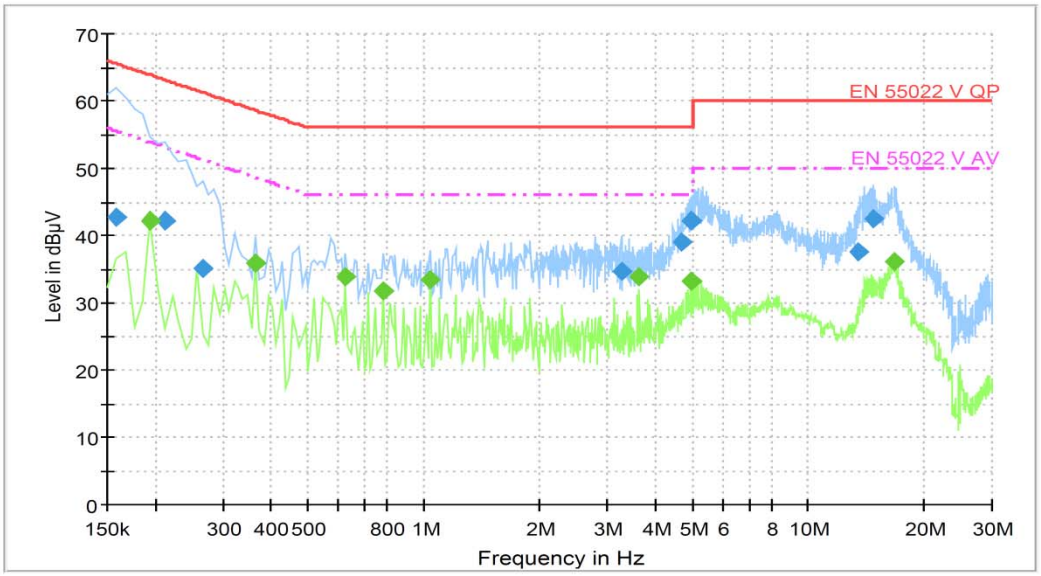
- Configuration 2 : USB Printing



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	42.7	5000.0	9.000	On	N	10.1	22.80	65.50
0.213000	42.2	5000.0	9.000	On	L1	10.0	20.90	63.10
0.267000	35.1	5000.0	9.000	On	L1	10.0	26.10	61.20
3.255000	34.6	5000.0	9.000	On	N	9.7	21.40	56.00
4.677000	38.9	5000.0	9.000	On	N	9.8	17.10	56.00
4.938000	42.2	5000.0	9.000	On	L1	9.7	13.80	56.00
13.497000	37.5	5000.0	9.000	On	N	9.9	22.50	60.00
14.766000	42.5	5000.0	9.000	On	N	9.9	17.50	60.00

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	42.3	5000.0	9.000	On	L1	10.0	11.50	53.80
0.366000	36.0	5000.0	9.000	On	N	10.0	12.60	48.60
0.627000	33.9	5000.0	9.000	On	N	10.0	12.10	46.00
0.780000	31.7	5000.0	9.000	On	N	9.9	14.30	46.00
1.041000	33.4	5000.0	9.000	On	N	9.8	12.60	46.00
3.633000	33.8	5000.0	9.000	On	N	9.7	12.20	46.00
4.938000	33.3	5000.0	9.000	On	N	9.8	12.70	46.00
16.746000	36.1	5000.0	9.000	On	L1	9.9	13.90	50.00

Note1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph. 'Final Result 1' is Quasi-peak final measurement results table and 'Final Result 2' is C/Average final measurement results table.

Note2) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor(Corr.)

Note3) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note4) Factor = LISN Insertion Loss + Cable Loss

Note5) Margin = Limit – Level (Quasi-Peak and/or C/Average)

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5.2 Radiated disturbance

Of those disturbances above (*L* – 20 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 3 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

Below 1 GHz, peak detector function mode for prescan was used with resolution bandwidth of 120 kHz and a video bandwidth of 300 kHz and sweep method.
The sweep time for prescan set below 200 ms up and final measurement with quasi-peak detector evaluated for suspected frequencies points, which are detected from prescan measurement.

Final measurements consisted of 3 steps.
First step, frequency fine tuning to find exact disturbance frequency.
Second step, rechecking to search for maximum height and azimuth for interference from EUT
In final step, there are conducted measuring with quasi-peak detector for points
which are detected from 1st step & 2nd step.

Limits of Radiated disturbance of ITE at a measuring distance of 3 m

Frequency MHz	Limit values dB(μV/m) Quasi-peak	
	Class A	Class B
30 to 88	49.5	40.0
88 to 216	54.0	43.5
216 to 960	56.9	46.0
Above 960	60.0	54.0

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Peak measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th 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 1 GHz radiated disturbance of ITE at a measuring distance of 3 m

Class	Limits - dB(μV/m)	
	Peak	C/Average
A	**80**	**60**
B	**74**	**54**
Average limit 500, 20 log 500 = 53.979 dB ≒ 54 dB		

Measurements within 20 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using a C/Average detector.

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

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5.2.1 Test instrumentation

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
EMI TEST RECEIVER	ESIB-26	R&S	100019	2014-01-21	12
BILOG Antenna	CBL 6143A	TESEQ	30262	2013-05-21	24
Preamplifier	310N	SONOMA	282362	2013-11-13	12
Double-Ridged Waveguide Horn Antenna	HF906	R&S	100028	2012-08-13	24
Test Software	EP5/RE	TOYO	Ver 3.10.20	-	-

5.2.2 Temperature and humidity condition

Test date	April 9~10, 2014	**Test engineer**	Su Young Son	
Climate condition	**Ambient temperature**	21.0 ℃ / 22.0 ℃	**Relative humidity**	36 %/ 38 %
	Atmospheric pressure	101.1kPa /101.0 kPa		
Test place	3 m Semi-Anechoic Chamber			

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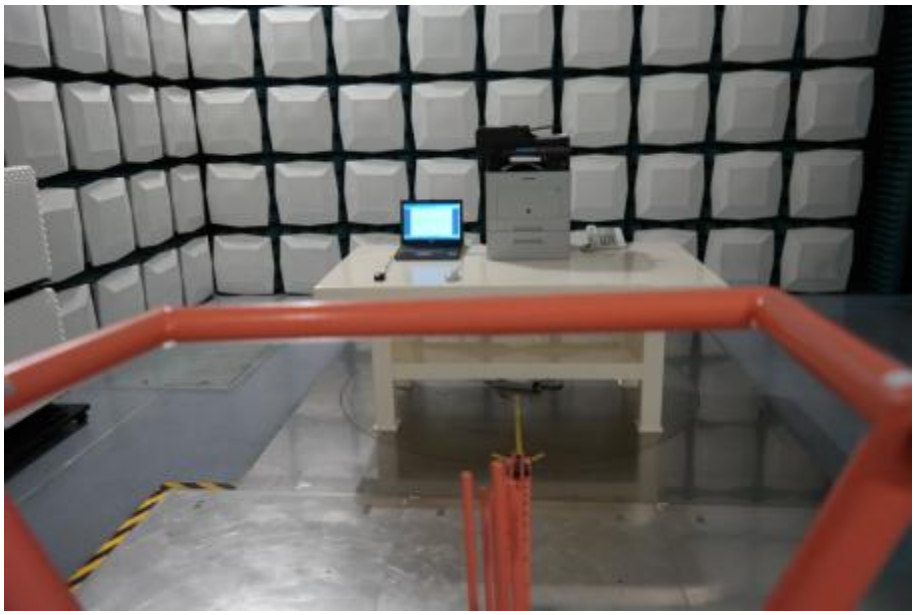
5.2.3.1 Photograph of Test Setup (30 MHz ~ 1 000 MHz)



Front

Rear

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5.2.3.2 Photograph of Test Setup (Above 1 GHz)

Front

Rear

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5.2.4 Test results

5.2.4.1 30 MHz ~ 1 000 MHz results

- Configuration 1 : Standby

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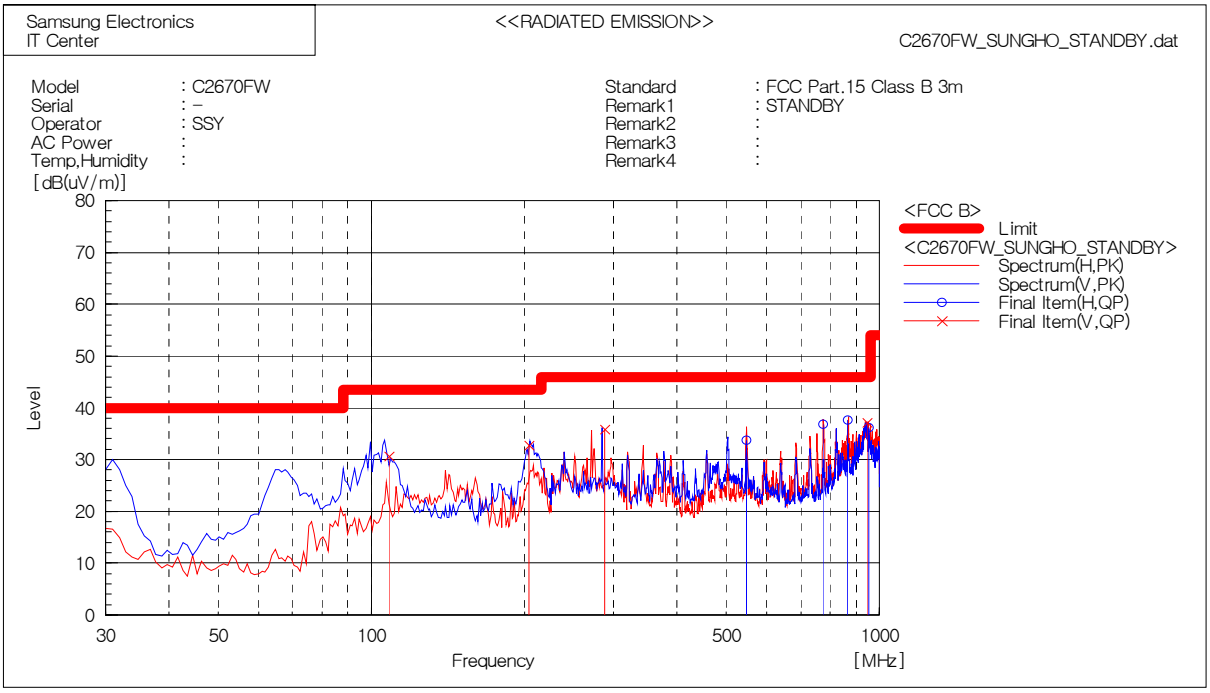

Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	108.564	V	48.4	-17.8	30.6	43.5	12.9	101.0	353.0
2	204.371	V	53.4	-20.7	32.7	43.5	10.8	101.0	310.0
3	287.852	V	52.6	-16.7	35.9	46.0	10.1	198.0	268.0
4	547.540	H	43.2	-9.5	33.7	46.0	12.3	198.0	26.0
5	774.981	H	44.5	-7.6	36.9	46.0	9.1	102.0	164.0
6	867.852	H	43.8	-6.2	37.6	46.0	8.4	198.0	183.0
7	946.157	V	41.9	-4.8	37.1	46.0	8.9	101.0	80.0
8	952.157	H	41.1	-4.9	36.2	46.0	9.8	198.0	38.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Result (QP)

QP = Quasi-Peak

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- Configuration 1 : DSDF Copy

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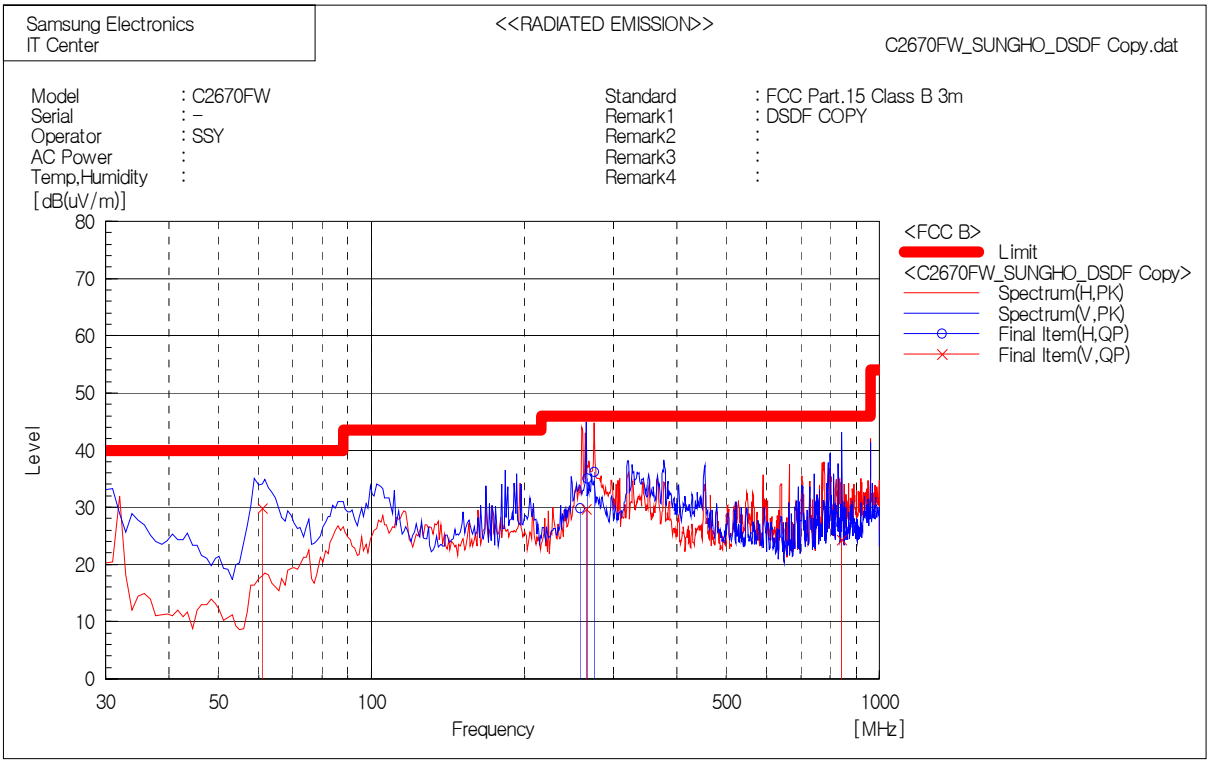

Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	60.982	V	53.8	-23.9	29.9	40.0	10.1	102.0	309.0
2	258.061	H	45.9	-16.0	29.9	46.0	16.1	199.0	81.0
3	264.543	V	45.8	-16.1	29.7	46.0	16.3	129.0	4.0
4	266.050	H	51.2	-16.1	35.1	46.0	10.9	105.0	164.0
5	274.077	H	52.9	-16.7	36.2	46.0	9.8	108.0	164.0
6	843.737	V	30.8	-6.4	24.4	46.0	21.6	145.0	75.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Result (QP)

QP = Quasi-Peak

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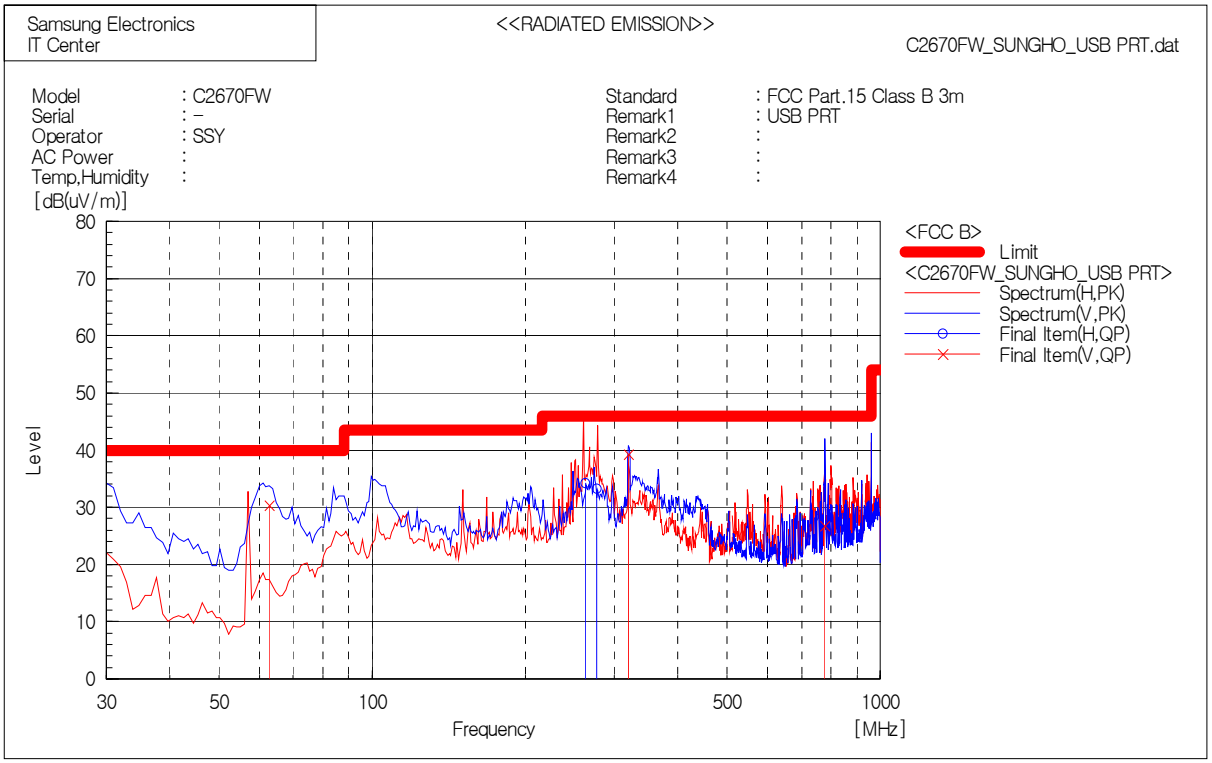

Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	62.682	V	54.1	-23.8	30.3	40.0	9.7	105.0	249.0
2	263.055	H	50.2	-16.0	34.2	46.0	11.8	104.0	169.0
3	276.260	H	50.1	-16.8	33.3	46.0	12.7	101.0	171.0
4	319.978	V	55.1	-15.8	39.3	46.0	6.7	113.0	315.0
5	776.767	V	34.3	-7.5	26.8	46.0	19.2	144.0	344.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Result (QP)

QP = Quasi-Peak

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- Configuration 1 : FAX Tx

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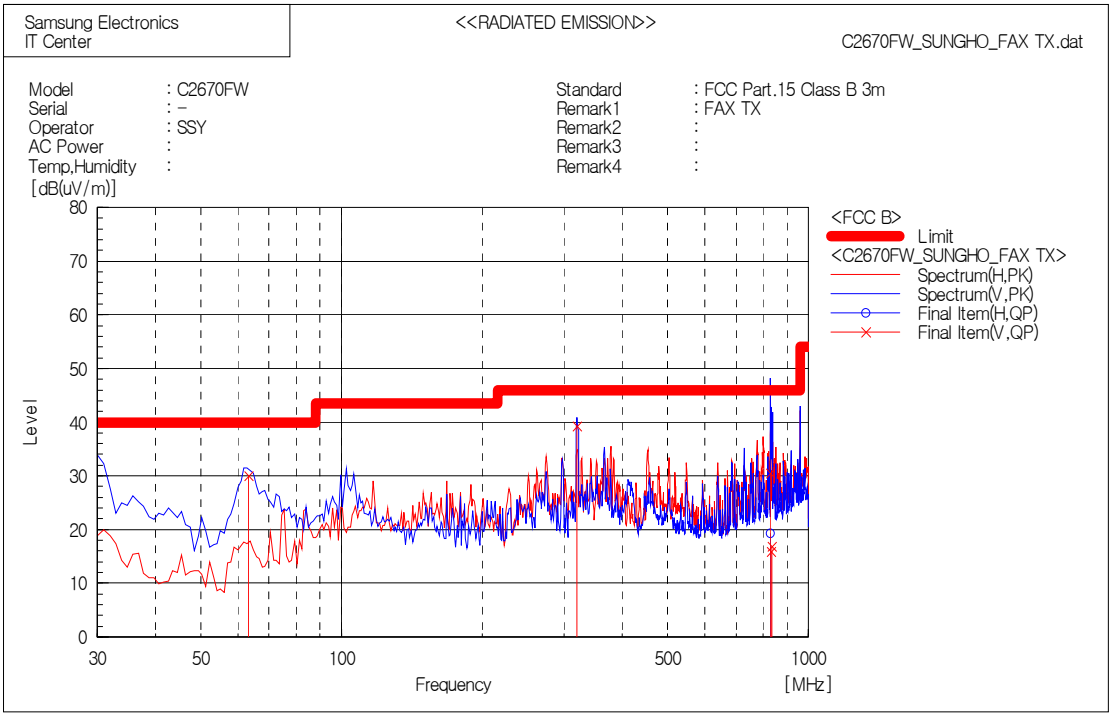

Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	63.185	V	53.9	-23.8	30.1	40.0	9.9	106.0	264.0
2	319.920	V	55.0	-15.8	39.2	46.0	6.8	103.0	320.0
3	827.396	V	37.5	-6.9	30.6	46.0	15.4	157.0	70.0
4	829.625	H	26.2	-6.9	19.3	46.0	26.7	144.0	96.0
5	831.004	V	22.8	-6.9	15.9	46.0	30.1	200.0	238.0
6	836.344	V	23.7	-6.8	16.9	46.0	29.1	195.0	218.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Result (QP)

QP = Quasi-Peak

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- Configuration 2 : DSDF Copy

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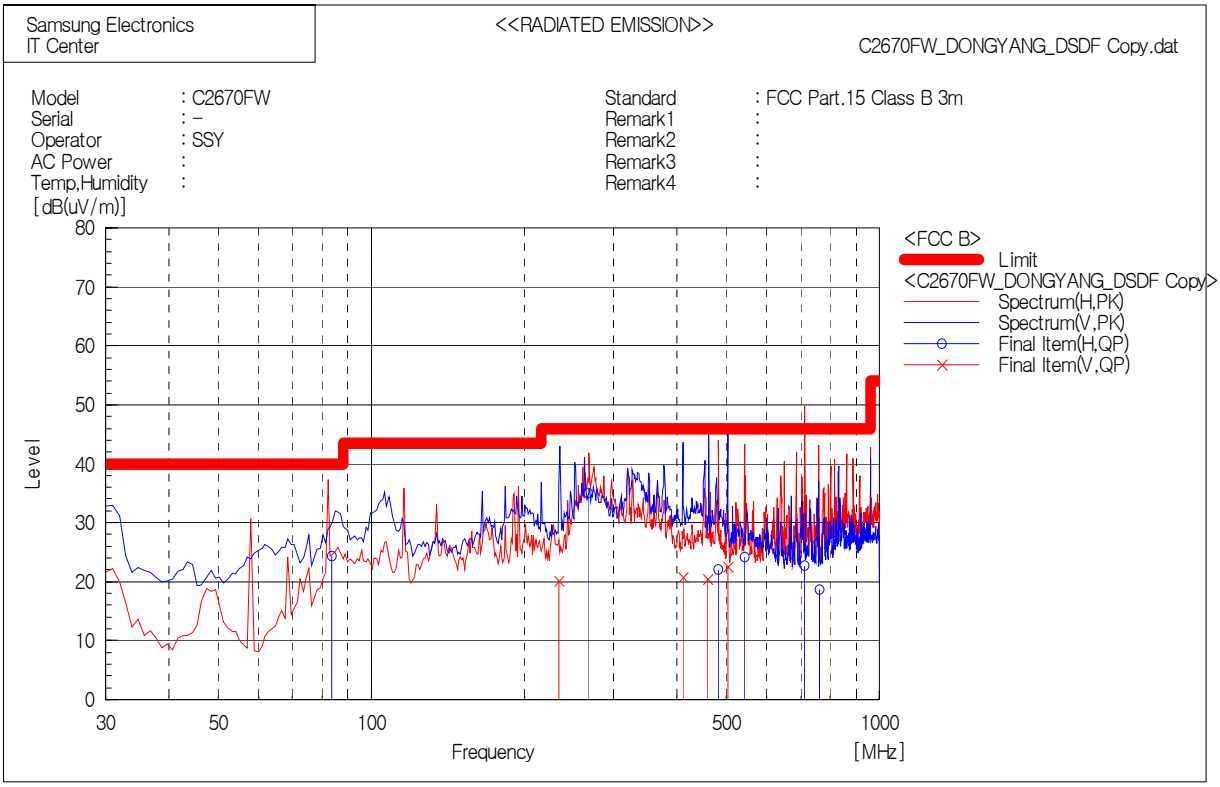

Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	711.078	H	31.1	-8.3	22.8	46.0	23.2	223.0	183.0
2	459.758	V	33.0	-12.6	20.4	46.0	25.6	217.0	68.0
3	502.838	V	33.6	-11.1	22.5	46.0	23.5	190.0	214.0
4	481.897	H	34.1	-12.0	22.1	46.0	23.9	225.0	58.0
5	411.587	V	33.3	-12.6	20.7	46.0	25.3	221.0	143.0
6	544.082	H	33.7	-9.5	24.2	46.0	21.8	206.0	62.0
7	83.662	H	45.6	-21.2	24.4	40.0	15.6	269.0	302.0
8	761.061	H	26.6	-8.0	18.6	46.0	27.4	194.0	38.0
9	234.242	V	39.1	-19.0	20.1	46.0	25.9	213.0	264.0
10	267.045	H	51.2	-16.2	35.0	46.0	11.0	104.0	178.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Result (QP)

QP = Quasi-Peak

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- Configuration 2 : USB Printing

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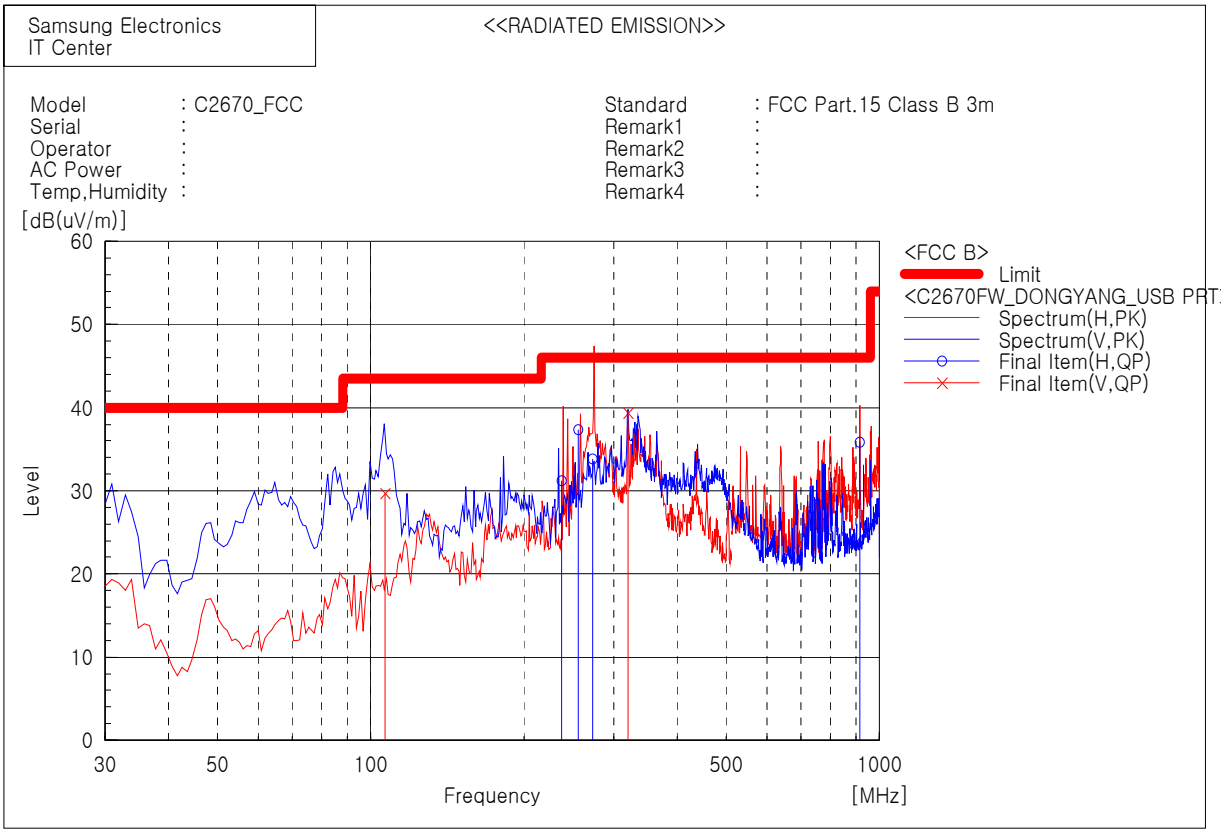

Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	106.671	V	47.6	-17.9	29.7	43.5	13.8	101.0	109.0
2	237.139	H	49.8	-18.6	31.2	46.0	14.8	103.0	152.0
3	255.985	H	53.4	-16.1	37.3	46.0	8.7	103.0	204.0
4	272.521	H	50.4	-16.6	33.8	46.0	12.2	104.0	2.0
5	320.055	V	55.1	-15.7	39.4	46.0	6.6	130.0	311.0
6	915.206	H	41.3	-5.5	35.8	46.0	10.2	193.0	201.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Result (QP)

QP = Quasi-Peak

---End of page---

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5.2.4.2 Above 1 GHz results

- Configuration 1 : Standby

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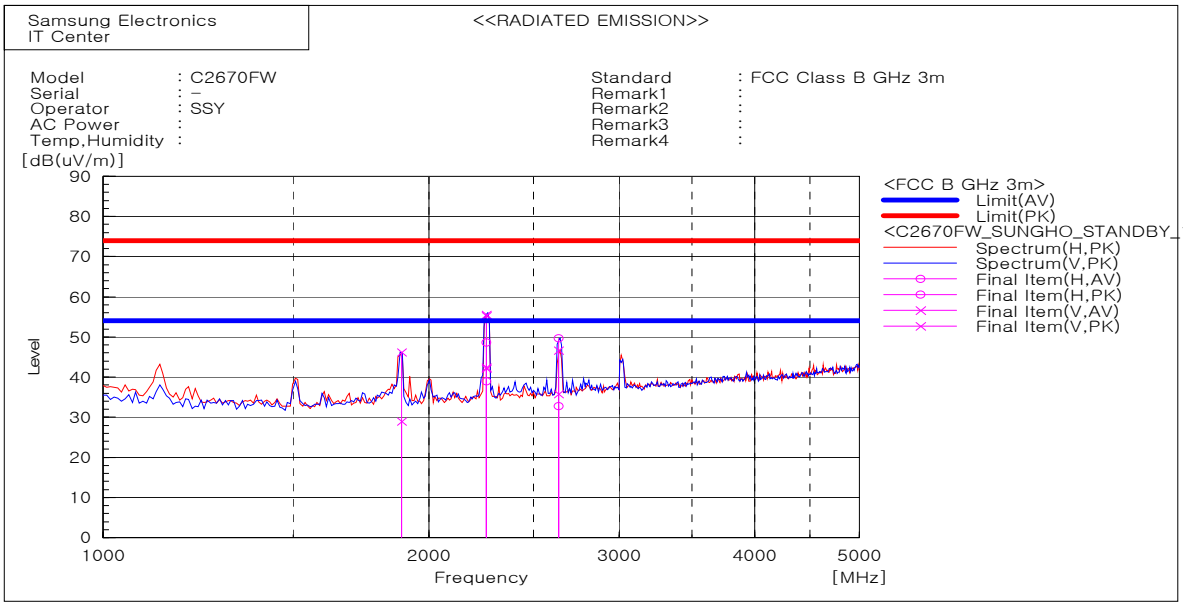

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2260.962	43.4	-4.5	38.9	54.0	15.1	100.0	50.0
2	2637.075	36.2	-3.4	32.8	54.0	21.2	100.0	136.0

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2260.962	53.1	-4.5	48.6	74.0	25.4	100.0	50.0
2	2637.075	53.1	-3.4	49.7	74.0	24.3	100.0	136.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1886.133	34.8	-5.8	29.0	54.0	25.0	100.0	73.0
2	2260.481	46.7	-4.5	42.2	54.0	11.8	100.0	89.0
3	2260.561	47.0	-4.5	42.5	54.0	11.5	100.0	87.0
4	2637.315	39.2	-3.4	35.8	54.0	18.2	100.0	55.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1886.133	52.0	-5.8	46.2	74.0	27.8	100.0	73.0
2	2260.481	60.1	-4.5	55.6	74.0	18.4	100.0	89.0
3	2260.561	59.8	-4.5	55.3	74.0	18.7	100.0	87.0
4	2637.315	50.0	-3.4	46.6	74.0	27.4	100.0	55.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 2 meters

Result (PK and/or AV) = Reading (PK and/or AV) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit – Result (PK and/or AV)

PK = Peak, AV = C/Average

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SRA-TRF-20/0

- Configuration 1 : DSDF Copy

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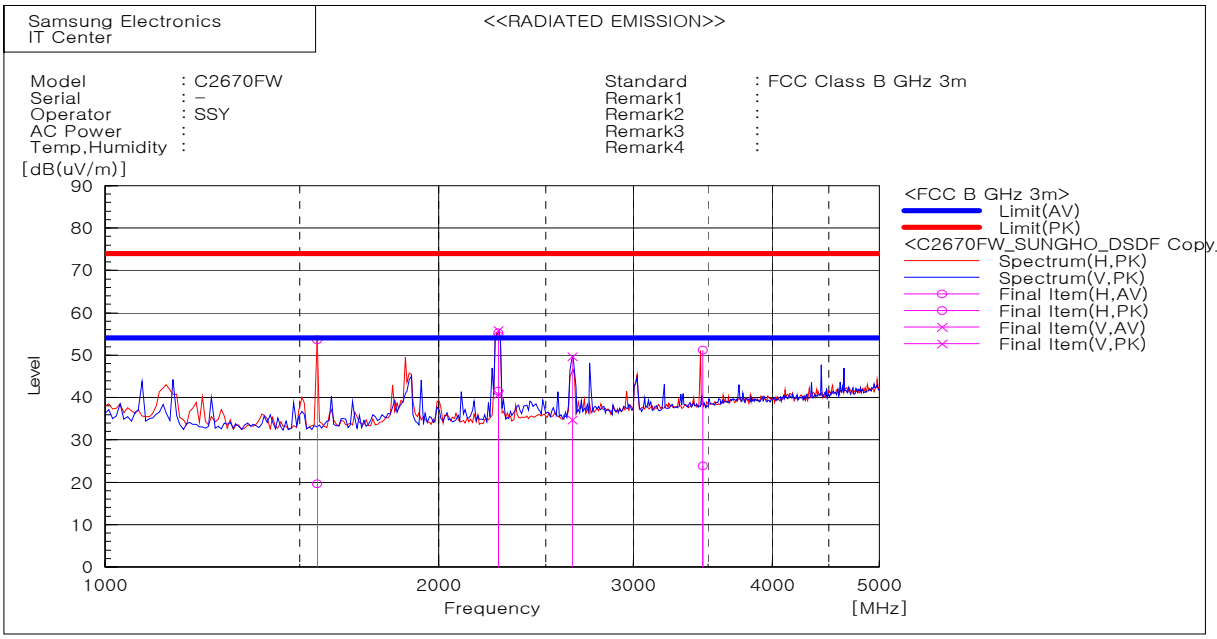

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1553.707	27.0	-7.4	19.6	54.0	34.4	100.0	173.0
2	2264.409	46.0	-4.5	41.5	54.0	12.5	100.0	57.0
3	3464.810	24.3	-0.4	23.9	54.0	30.1	100.0	15.0

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1553.707	61.0	-7.4	53.6	74.0	20.4	100.0	173.0
2	2264.409	59.8	-4.5	55.3	74.0	18.7	100.0	57.0
3	3464.810	51.6	-0.4	51.2	74.0	22.8	100.0	15.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	45.3	-4.5	40.8	54.0	13.2	100.0	82.0
2	2641.323	38.1	-3.4	34.7	54.0	19.3	100.0	50.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	60.4	-4.5	55.9	74.0	18.1	100.0	82.0
2	2641.323	53.1	-3.4	49.7	74.0	24.3	100.0	50.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (PK and/or AV) = Reading (PK and/or AV) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit – Result (PK and/or AV)

PK = Peak, AV = C/Average

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SRA-TRF-20/0

- Configuration 1 : USB Printing

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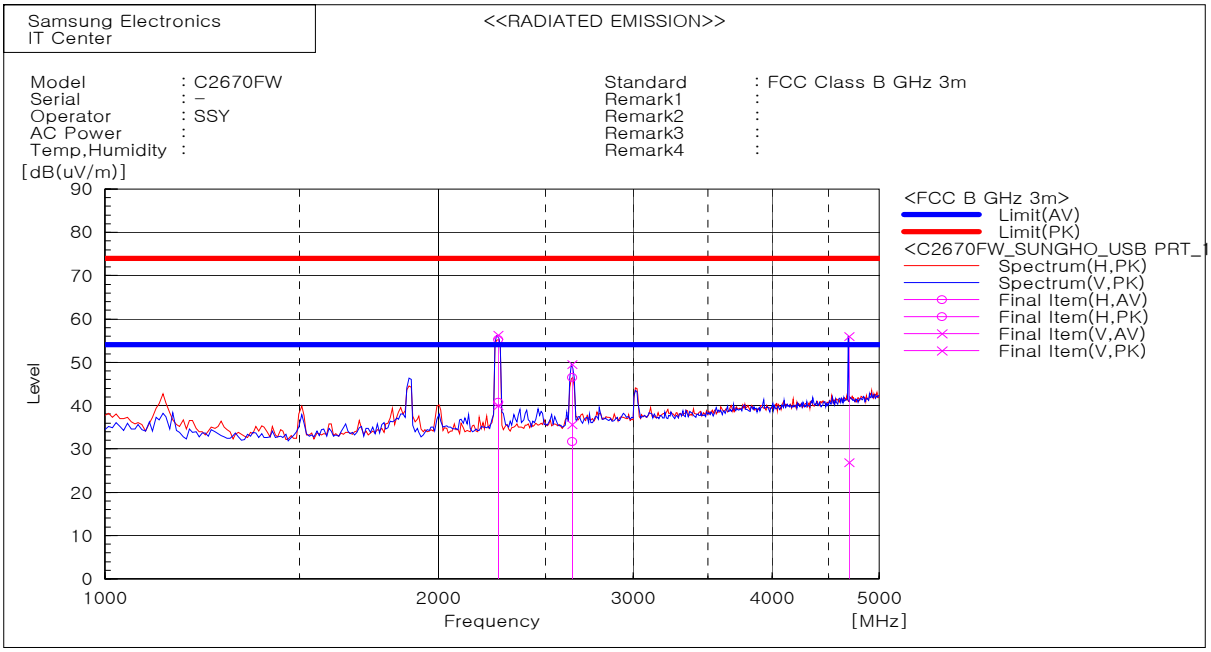

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2263.928	45.2	-4.5	40.7	54.0	13.3	100.0	59.0
2	2641.644	35.1	-3.4	31.7	54.0	22.3	100.0	151.0

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2263.928	59.8	-4.5	55.3	74.0	18.7	100.0	59.0
2	2641.644	49.9	-3.4	46.5	74.0	27.5	100.0	151.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	44.5	-4.5	40.0	54.0	14.0	100.0	81.0
2	2641.564	39.0	-3.4	35.6	54.0	18.4	100.0	52.0
3	4699.119	24.1	2.8	26.9	54.0	27.1	100.0	147.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	60.9	-4.5	56.4	74.0	17.6	100.0	81.0
2	2641.564	53.0	-3.4	49.6	74.0	24.4	100.0	52.0
3	4699.119	53.2	2.8	56.0	74.0	18.0	100.0	147.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (PK and/or AV) = Reading (PK and/or AV) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit – Result (PK and/or AV)

PK = Peak, AV = C/Average

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- Configuration 1 : FAX Tx

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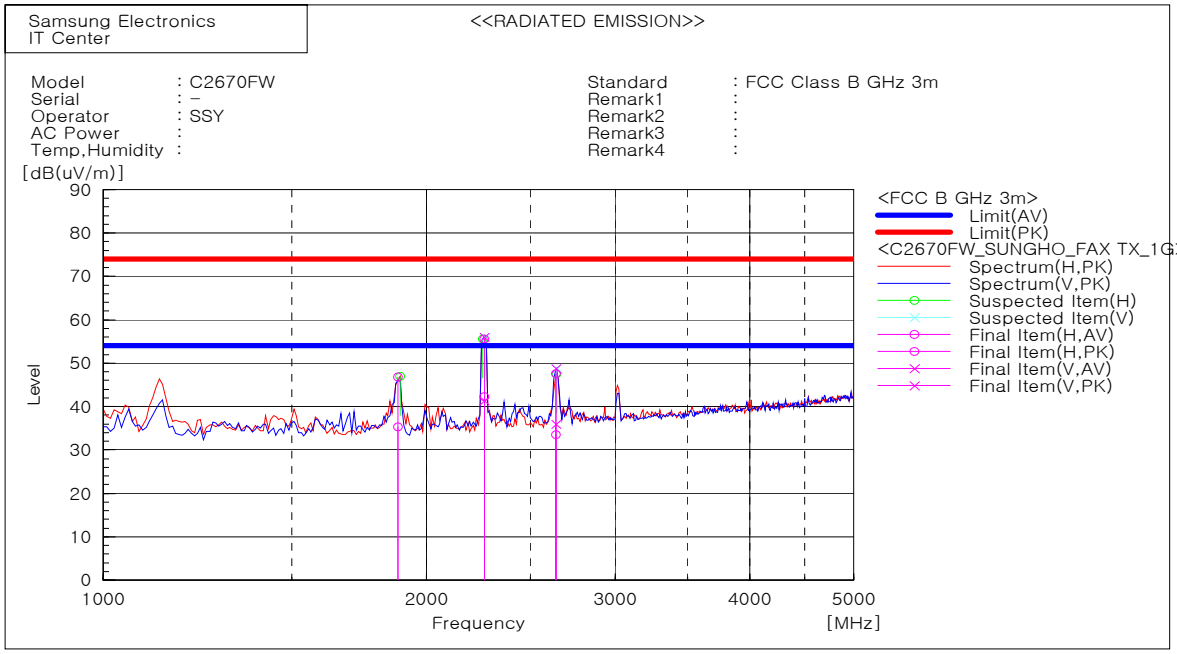

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1880.522	41.2	-5.9	35.3	54.0	18.7	100.0	35.0
2	2264.489	46.8	-4.5	42.3	54.0	11.7	100.0	55.0
3	2641.884	36.9	-3.4	33.5	54.0	20.5	100.0	48.0

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1880.522	52.7	-5.9	46.8	74.0	27.2	100.0	35.0
2	2264.489	60.0	-4.5	55.5	74.0	18.5	100.0	55.0
3	2641.884	51.0	-3.4	47.6	74.0	26.4	100.0	48.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	45.9	-4.5	41.4	54.0	12.6	100.0	82.0
2	2641.484	39.3	-3.4	35.9	54.0	18.1	100.0	54.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	60.5	-4.5	56.0	74.0	18.0	100.0	82.0
2	2641.484	52.1	-3.4	48.7	74.0	25.3	100.0	54.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (PK and/or AV) = Reading (PK and/or AV) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit – Result (PK and/or AV)

PK = Peak, AV = C/Average

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SRA-TRF-20/0

- Configuration 2 : DSDF Copy

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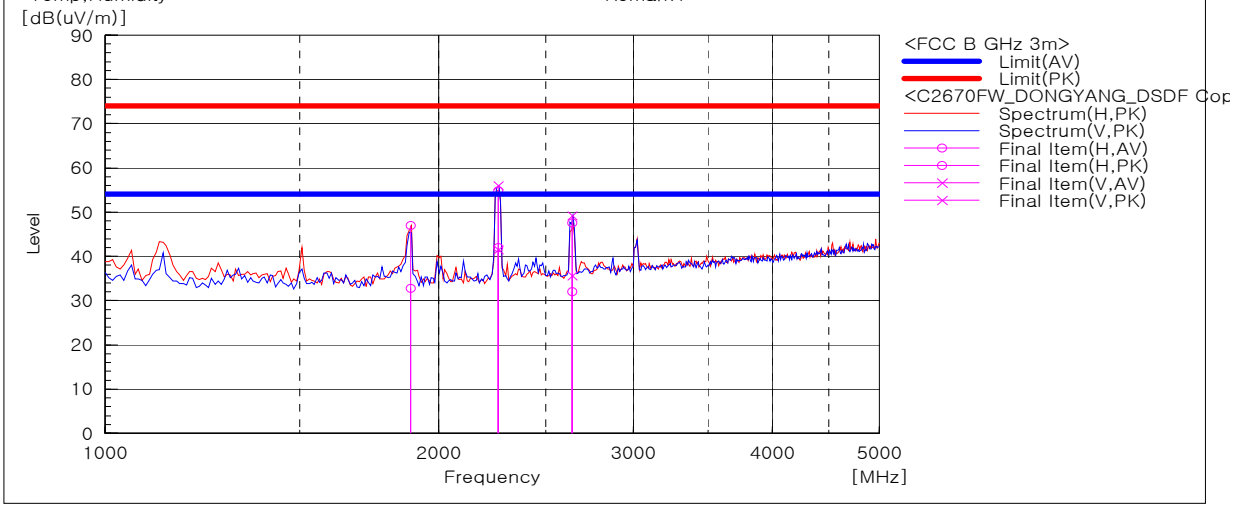
<<RADIATED EMISSION>>

Model	: C2670FW	Standard	: FCC Class B GHz 3m
Serial	: -	Remark1	:
Operator	: SSY	Remark2	:
AC Power	:	Remark3	:
Temp,Humidity	:	Remark4	:



Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1887.095	38.6	-5.8	32.8	54.0	21.2	100.0	123.0
2	2264.168	46.5	-4.5	42.0	54.0	12.0	100.0	57.0
3	2641.003	35.4	-3.4	32.0	54.0	22.0	100.0	51.0

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1887.095	52.7	-5.8	46.9	74.0	27.1	100.0	123.0
2	2264.168	59.3	-4.5	54.8	74.0	19.2	100.0	57.0
3	2641.003	51.0	-3.4	47.6	74.0	26.4	100.0	51.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	46.1	-4.5	41.6	54.0	12.4	100.0	84.0
2	2641.323	39.0	-3.4	35.6	54.0	18.4	100.0	54.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.409	60.5	-4.5	56.0	74.0	18.0	100.0	84.0
2	2641.323	52.7	-3.4	49.3	74.0	24.7	100.0	54.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (PK and/or AV) = Reading (PK and/or AV) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit – Result (PK and/or AV)

PK = Peak, AV = C/Average

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- Configuration 2 : USB Printing

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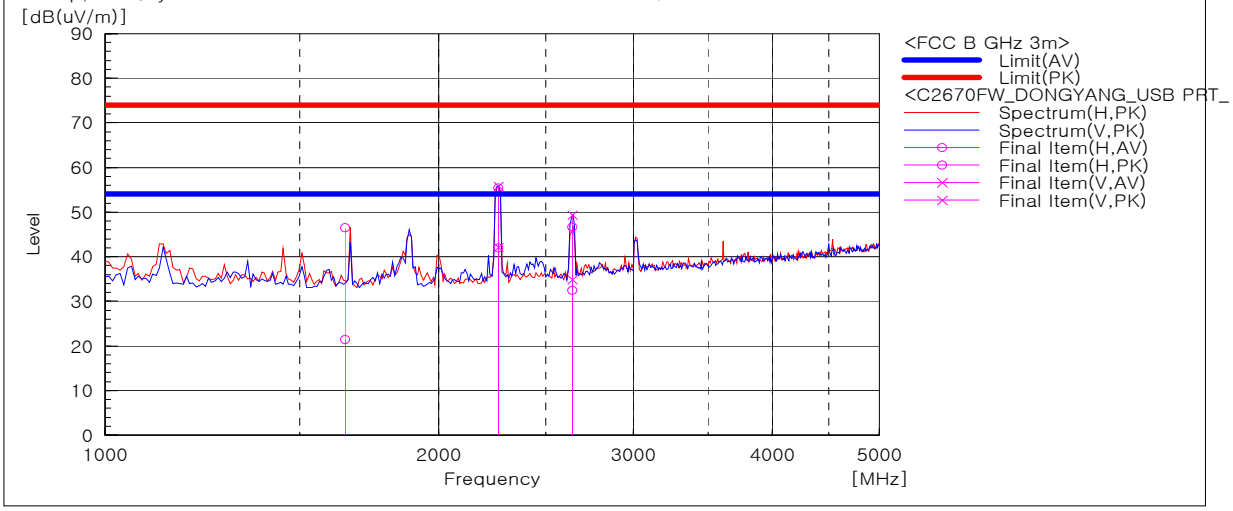
<<RADIATED EMISSION>>

Model : C2670FW
Serial : -
Operator : SSY
AC Power :
Temp,Humidity :

Standard : FCC Class B GHz 3m
Remark1 :
Remark2 :
Remark3 :
Remark4 :



Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1646.934	28.5	-7.1	21.4	54.0	32.6	100.0	137.0
2	2264.409	46.5	-4.5	42.0	54.0	12.0	100.0	56.0
3	2641.484	35.9	-3.4	32.5	54.0	21.5	100.0	145.0

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	1646.934	53.6	-7.1	46.5	74.0	27.5	100.0	137.0
2	2264.409	59.9	-4.5	55.4	74.0	18.6	100.0	56.0
3	2641.484	50.1	-3.4	46.7	74.0	27.3	100.0	145.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.489	46.6	-4.5	42.1	54.0	11.9	100.0	85.0
2	2641.644	38.3	-3.4	34.9	54.0	19.1	100.0	56.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	2264.489	60.3	-4.5	55.8	74.0	18.2	100.0	85.0
2	2641.644	52.8	-3.4	49.4	74.0	24.6	100.0	56.0

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (PK and/or AV) = Reading (PK and/or AV) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or AV) = Limit – Result (PK and/or AV)

PK = Peak, AV = C/Average

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Appendix – EUT photography

Front View

Rear View & Label Location

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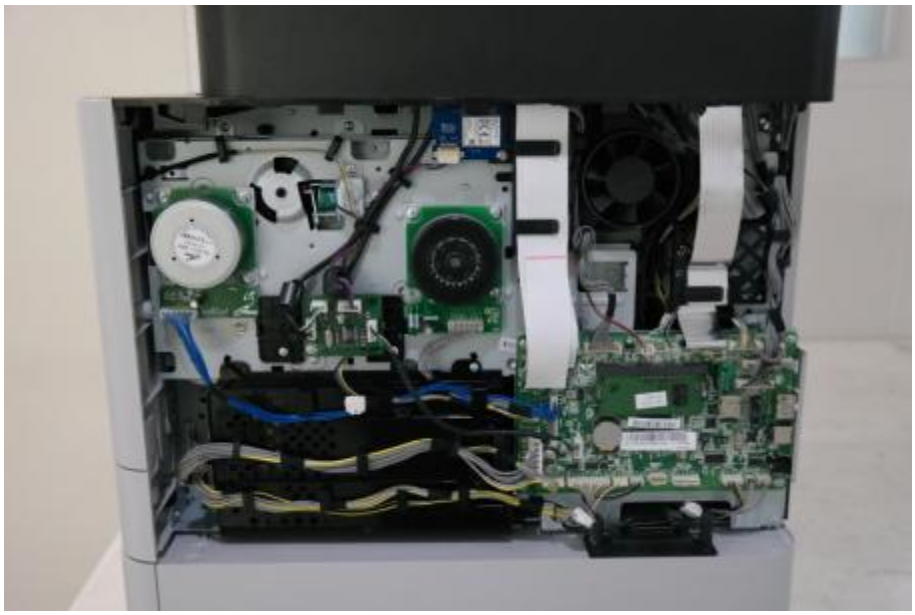
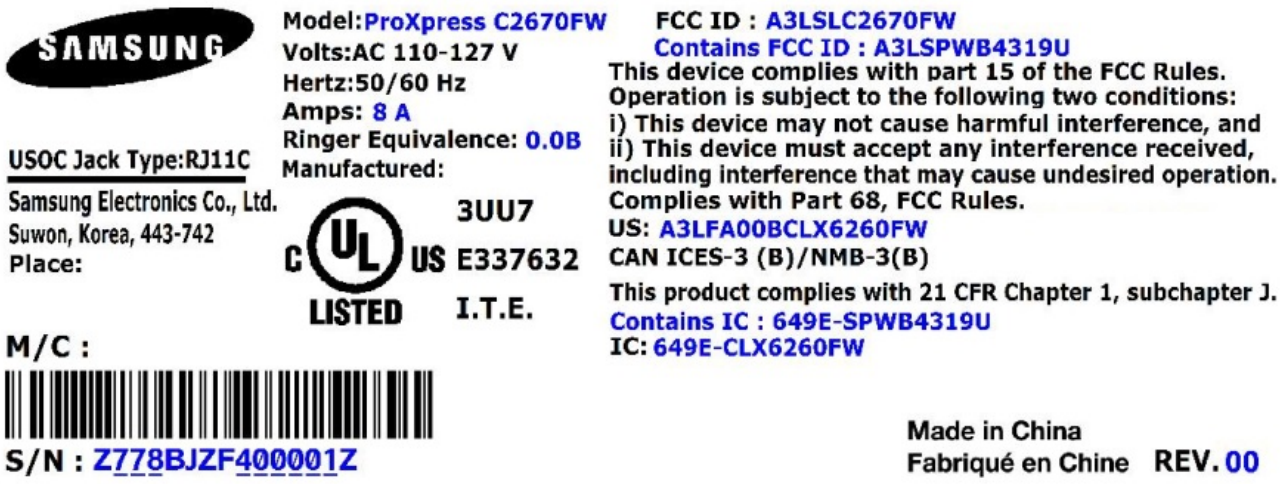


Right View (Inside View)



Label

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