

EMC TEST REPORT

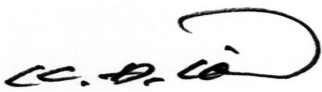
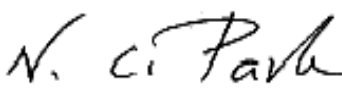
Project No.	LBE20101433	Issue No.	1
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742	
	Date of application	2 November 2010	
EUT	Type of device	Class B digital devices and peripherals	
	Equipment authorization	Cerification	
	FCC ID	A3LSCX5737FW	
	Kind of product	Mono Laser MFP	
	Model No.	SCX-5737FW	
	Variant Model No.	SCX-5739FW, SCX-5637FR, SCX-5639FR	
	Manufacturer	1) Samsung Electronics Co., Ltd. 259, Gongdan-Dong, Gumi-City, Gyeongsangbuk-Do, Korea 730-030 2) Samsung Electronics (Shandong) Digital Printing Co., Ltd. 264209, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China 3) Weihai Shin Heung Digital Electronics Co., Ltd. 98, Samsung Road, Weihai Hi-Tech. IDZ, Shandong Province, P.R.China 4) Intops : 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 C63.4-2003	
Test Period		2 November 2010 ~ 5 November 2010	
Issue date		12 November 2010	
Test result : Complied The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)			
Tested by : Kyeong Dong Kim		Reviewed by : No Cheon Park	
			
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 centre.			
 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. Summary of test results

1.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result	Remarks
☒	Conducted Disturbance	FCC Part 15 Subpart B	Complied	Meets Class B Limit
☒	Radiated Disturbance		Complied	Meets Class B Limit

2. General Information

2.1 Test facility

The CS & Environment Centre 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 C 63.4, CISPR 22, 16-1 and 16-2. and Shielded rooms.

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

3. Test configuration

3.1 Test Peripherals

The following is a listing of the EUT and supporting peripherals utilized during testing.

Description	Model No.	Serial No.	Manufacturer	FCC ID and/or DoC
Mono Laser MFP	SCX-5737FW	-	Samsung	A3LSCX5737FW
Notebook PC	Latitude D410	JP-0NC428-71761 -54J-D01C	Dell	DoC
AC Adapter	HP-OQ065B83	CN-0N2765-47890 -44I-0249	Hipro Electronics	For Notebook PC
Serial Mouse	Serial Mouse	1022949	Microsoft	C3KMS1
USB Mouse	MOARUO	0816028775	Primax	DoC
USB Memory	DT Mini	-	Kingston	DoC
Telephone	SP-F209K	KKAY413543T	Yontae Electronics	-

3.2 EUT operating mode (selected)

To achieve compliance with the applied standards and/or specifications, two different SMPS which developed by Dongyang and Lite-On respectively were applied for testing, and the following mode(s) were considered and tested.

Operating Mode 1	Standby mode
Operating Mode 2	DADF Copy & Fax Rx
Operating Mode 3	Fax Tx & USB Duplex Print
Operating Mode 4	P1284 Duplex Print & Network Ping & Scan to USB
Operating Mode 5	Wireless Duplex Print & Scan to PC

3.3 Details of Sampling

- Customer selected, single unit.

3.4 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. *USB printing and P1284 printing mode were checked by turns because P1284 cable and USB cable from EUT to peripheral cannot be connected simultaneously*

Connected cable	Length [m]	Shielded [Y/N]	Note
Power	1.8	No	For EUT
Power	0.8	No	For Notebook PC
Tel line	2.0	No	EUT to telephone
Tel line	3.0	No	EUT to K/P system
P1284	1.8	Yes	For EUT to Notebook PC
Ethernet	3.0	No	EUT to HUB
Serial	1.8	No	Notebook PC to Card reader
USB	1.8	Yes	EUT to Notebook PC
USB	1.8	Yes	Notebook PC to mouse
Headset	1.8	No	EUT to Headset

3.5 EUT Description

Item	Specification	Remarks
Processor	CHORUS4(600MHz)	-
Standard System memory	128MB DDR2 SDRAM	-
Resolution	True 600x600dpi (Addressible 1200dpi support)	-
Copy Quality mode	Text : Scan 300 x 300 dpi, Print: 600 x 600 dpi (Platen, ADF) Mixed : Scan 300 x 300 dpi, Print: 600 x 600 dpi (Platen, ADF)· Photo : Scan 300 x 300 dpi, Print: 600 x 600 dpi (ADF) Scan 600 x 600 dpi, Print: 1200 x 1200 dpi (Platen)	-
Paper Handling	Paper Tray(standard) 250 Sheets MP Tray 50sheets	-
Power Rating	110~127 Vac, 5A, 50/60 Hz	-
Power Consumption	Power save mode : 9 Watts Printing mode: MAX. 600 Watts	-
Printer Language	PCL6/PS3	-
PC Interfaces	USB2.0, NW, FAX	-
OS compatibility	Windows 2000/XP (32/64 bits) /Vista (32/64 bits) /2003 Server (32/64 bits) /2008 Server(32/64 bits) /7 (32/64 bits) /2008 Server R2 Various Linux OS:Fedora Core 4, 5, 6,Fedora 7, 8, 9, 10, 11, 12, RedHat Enterprise Linux WS 4, 5, SuSE 10.0, 10.1 openSuSE 10.2, 10.3, 11.0, 11.1, 11.2 SuSE Linux Enterprise Desktop 10, 11 Debian 4.0, 5.0 Ubuntu 5.04, 5.10, 6.04, 6.10, 7.04, 7.10, 8.04, 8.10, 9.04, 9.10 Mandriva 2005LE, 2006, 2007, 2007.1 2008, 2008.1, 2009, 2009.1 Mac OS 10.3 ~ 10.6	-
Modes of Operation	USB Printing, ADF Scan, ADF Copy, 1200dpi Printing, Fax RX, Fax TX, Network Printing	-
Intended Class for Emissions	Class B	-

3.6 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
Main Source Clock	12	Video Clock	22.137
CPU Internal Clock	600	DDR2 Clock	166
USB Device Clock	12	CIS	4.16

3.7 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.

- **Configuration 1 : Dongyang SMPS applied**
- **Configuration 2 : Lite On SMPS applied**

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

- **Testing Voltage : AC 115 V, 60 Hz**

3.8 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.)

3.8.1 Emission

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	Mains Port	± 3.0 dB
Radiated disturbance	Horizontal	± 4.95 dB
	Vertical	± 4.99 dB

4. Results of individual test

4.1 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 mains ports of class A

Frequency range Limits MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

Note 1: 1 μ V is regarded as 0 dB.
 Note 2: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector at the same frequency is unnecessary.
 Note 3: The lower limit shall apply at the transition frequency.

Limits for conducted disturbance at the mains ports of class B

Frequency range Limits MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Note 1: 1 μ V is regarded as 0 dB.
 Note 2: The limits shall decreases linearly with the logarithm of the frequency in the range 150 - 500 kHz.
 Note 3: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector is unnecessary.
 Note 4: The lower limit shall apply at the transition frequency.

4.1.1 Test instrumentation

Test instrumentations used in the Conducted disturbance test were as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Receiver	R&S	ESCI	100086	2009-11-19	12
Two-Line V-Network	R&S	ENV216	100117	2009-11-11	12
Two-Line V-Network	R&S	ESH3-Z5	831887/004	2010-07-06	12
Test software	EMC32	R&S	Ver 4.40.	N/A	N/A

4.1.2 Temperature and humidity condition

Test date	5 November 2010	Test engineer		Kyeong Dong Kim	
Climate condition	Ambient temperature	24.4 °C	Relative humidity	31 %	
	Atmospheric pressure	101.9 kPa			
Test place	Shielded Room #1				

4.1.3 Photograph of Test Setup



Front

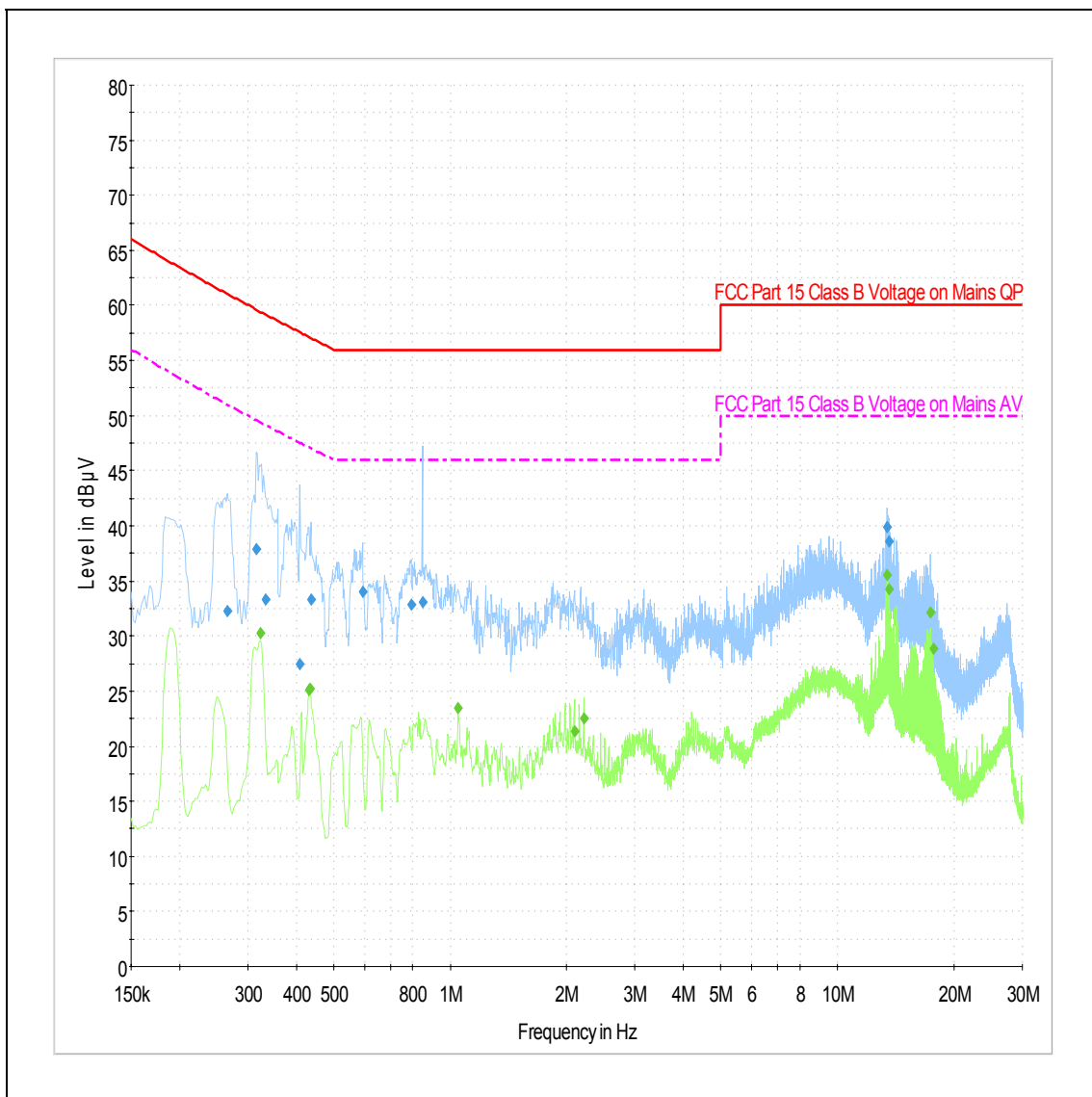


Rear

4.1.4 Test results (mains port)

- Configuration 1, Operating Mode 1 : Standby Mode

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)

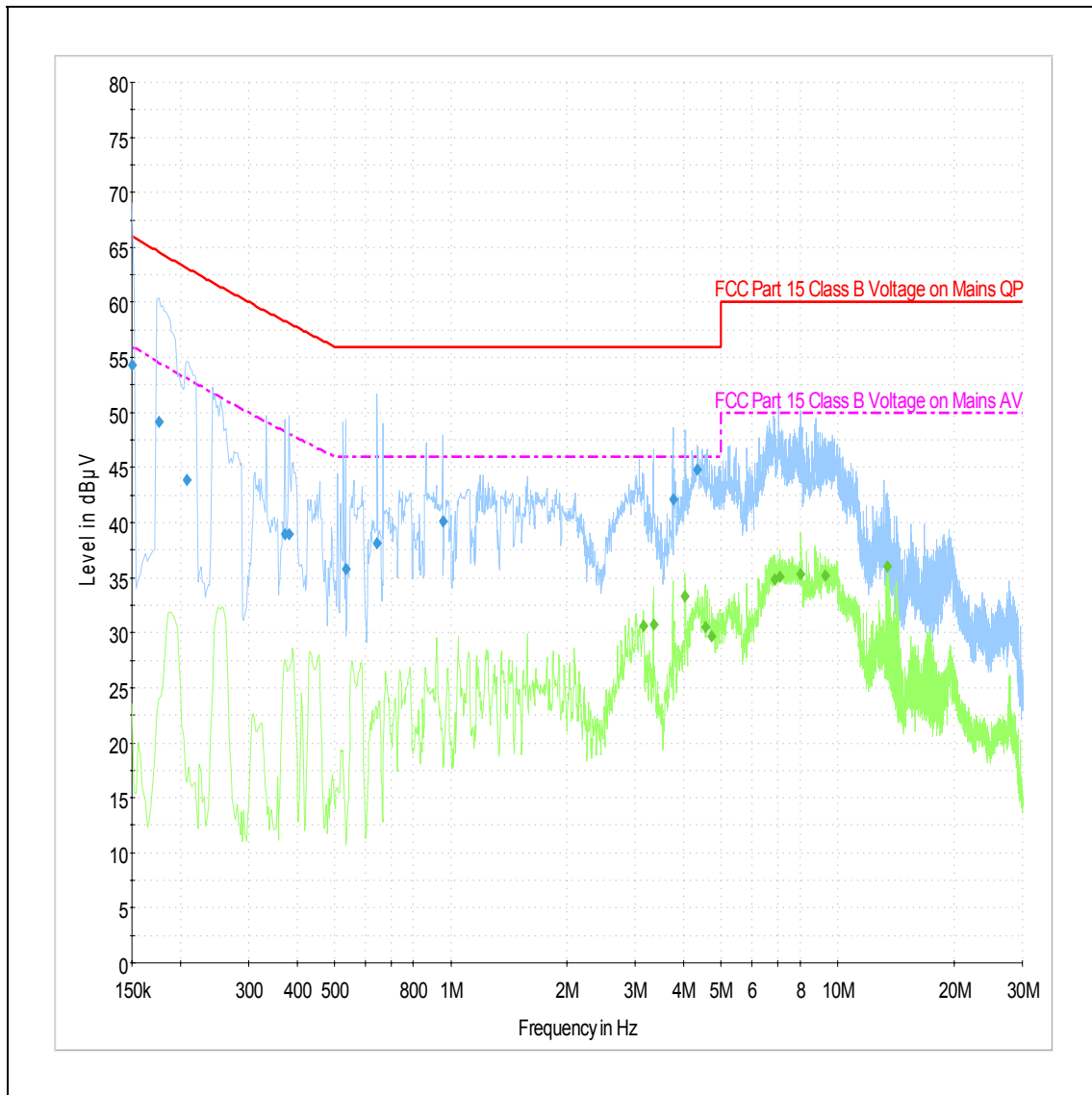
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.266	N	9.0	9.7	32.3	9.7	61.0
0.316	N	9.0	9.7	37.8	9.7	59.6
0.334	N	9.0	9.7	33.3	9.7	59.2
0.408	L1	9.0	9.7	27.4	9.7	57.6
0.436	L1	9.0	9.7	33.3	9.7	57.1
0.594	N	9.0	9.7	34.0	9.7	56.0
0.792	N	9.0	9.7	32.8	9.7	56.0
0.848	L1	9.0	9.7	33.0	9.7	56.0
13.420	L1	9.0	9.9	39.9	9.9	60.0
13.604	N	9.0	9.9	38.6	9.9	60.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.324	N	9.0	9.7	30.2	19.1	49.4
0.432	L1	9.0	9.7	25.2	22.0	47.1
0.434	N	9.0	9.7	25.3	21.8	47.1
1.048	N	9.0	9.7	23.4	22.6	46.0
2.096	N	9.0	9.7	21.4	24.6	46.0
2.208	N	9.0	9.7	22.6	23.4	46.0
13.420	L1	9.0	9.9	35.6	14.4	50.0
13.604	N	9.0	9.9	34.2	15.8	50.0
17.312	L1	9.0	10.0	32.1	17.9	50.0
17.680	N	9.0	10.0	28.9	21.1	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)

- Configuration 1, Operating Mode 2 : DADF Copy & Fax Rx

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)

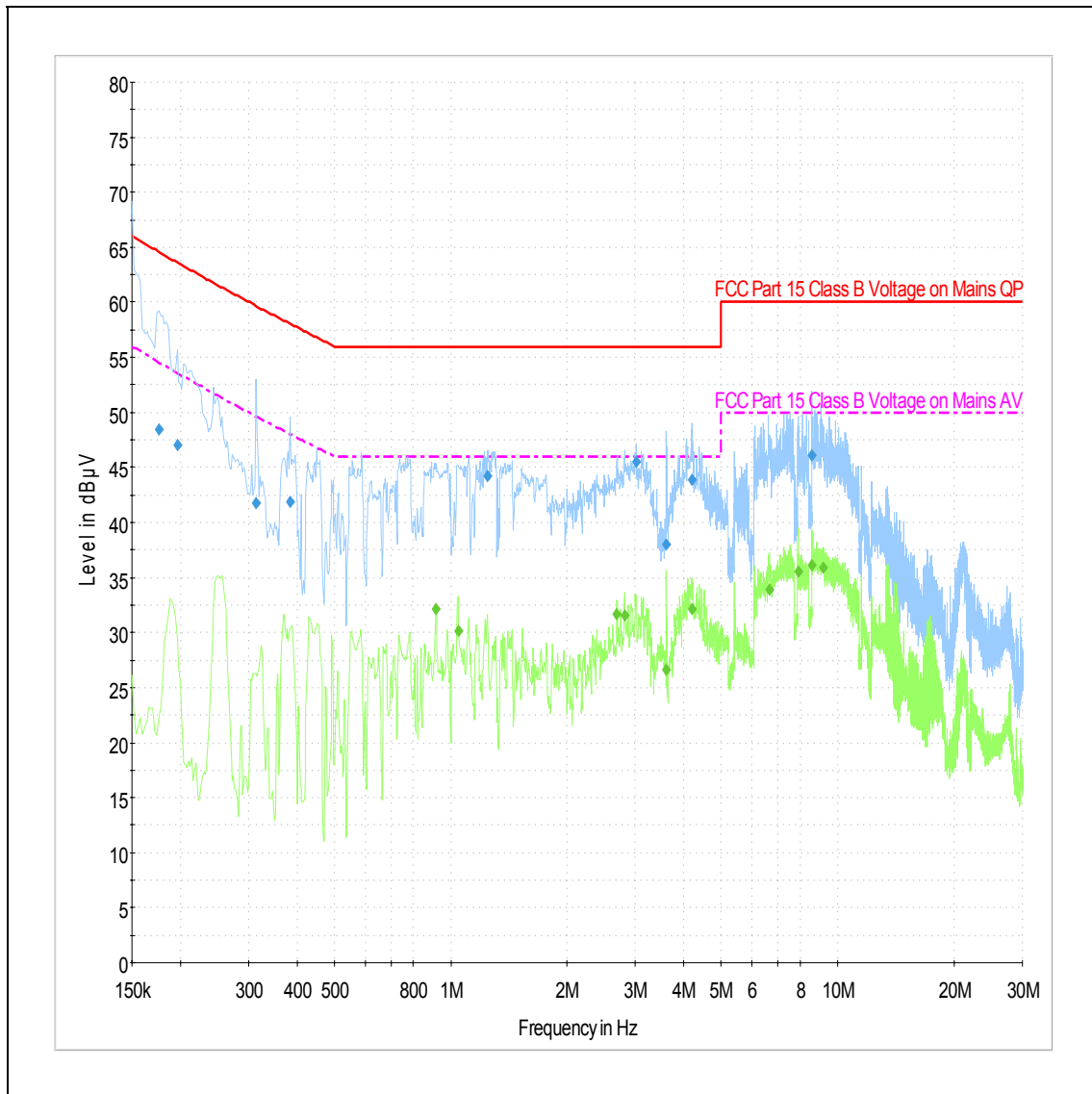
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	54.3	11.7	66.0
0.176	L1	9.0	9.7	49.2	15.4	64.6
0.208	L1	9.0	9.7	43.9	19.2	63.1
0.372	L1	9.0	9.7	38.9	19.4	58.3
0.382	L1	9.0	9.7	39.0	19.1	58.1
0.534	L1	9.0	9.7	35.8	20.2	56.0
0.644	L1	9.0	9.7	38.2	17.8	56.0
0.952	N	9.0	9.7	40.1	15.9	56.0
3.752	L1	9.0	9.7	42.1	13.9	56.0
4.336	N	9.0	9.7	44.8	11.2	56.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
3.152	N	9.0	9.7	30.7	15.3	46.0
3.340	N	9.0	9.7	30.7	15.3	46.0
4.032	N	9.0	9.7	33.3	12.7	46.0
4.532	L1	9.0	9.7	30.4	15.6	46.0
4.720	L1	9.0	9.7	29.6	16.4	46.0
6.860	L1	9.0	9.8	34.9	15.1	50.0
7.096	N	9.0	9.7	35.1	14.9	50.0
8.024	L1	9.0	9.8	35.3	14.7	50.0
9.300	N	9.0	9.8	35.2	14.8	50.0
13.420	N	9.0	9.9	36.0	14.0	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)

- Configuration 1, Operating Mode 3 : Fax Tx & USB Duplex Print

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)

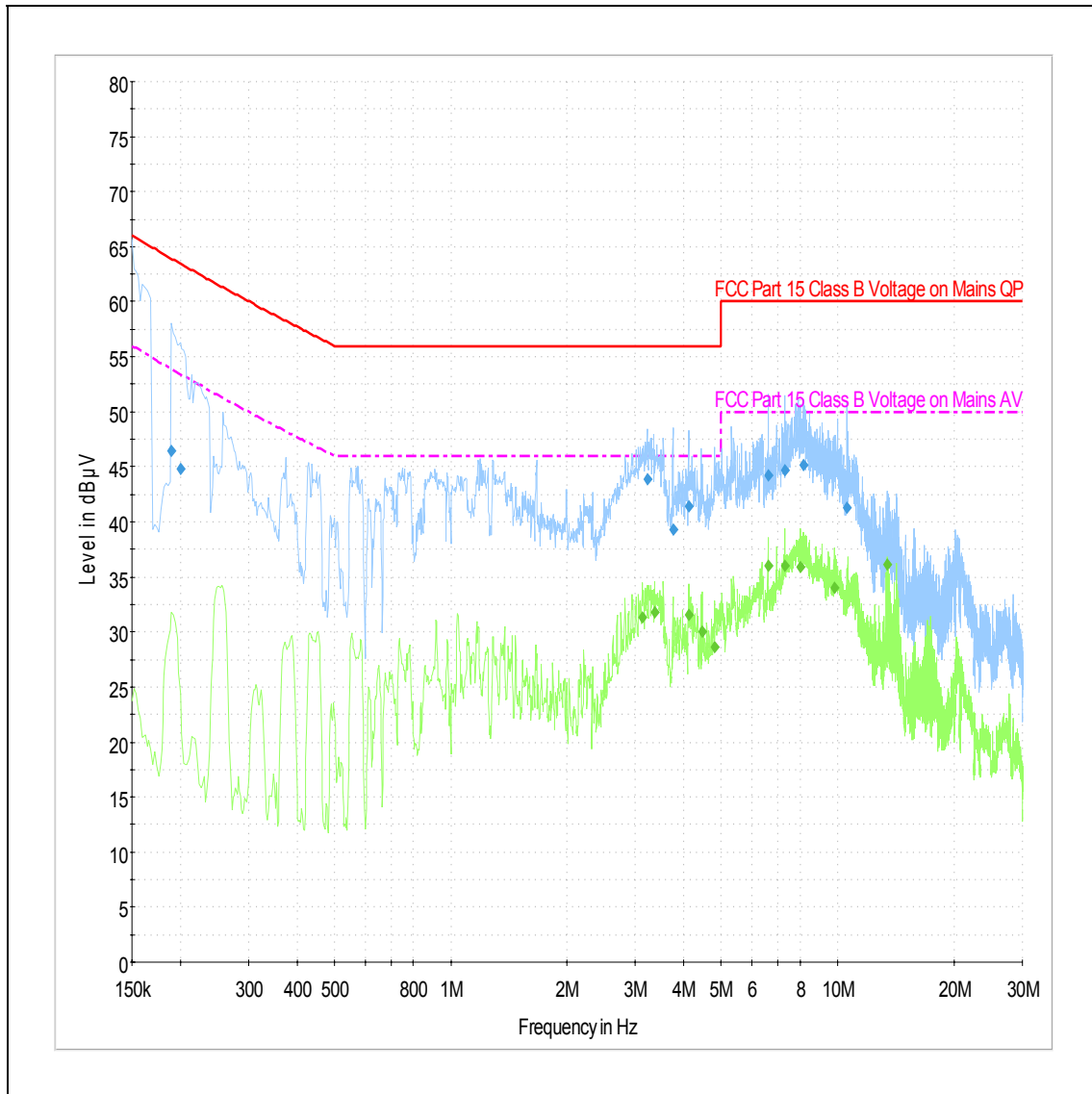
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	L1	9.0	9.7	54.3	11.7	66.0
0.176	N	9.0	9.7	48.4	16.2	64.6
0.196	N	9.0	9.7	47.0	16.6	63.6
0.314	N	9.0	9.7	41.8	17.9	59.7
0.384	N	9.0	9.7	41.9	16.2	58.1
1.244	L1	9.0	9.7	44.2	11.8	56.0
3.012	L1	9.0	9.7	45.5	10.5	56.0
3.608	N	9.0	9.7	38.0	18.0	56.0
4.192	N	9.0	9.7	43.9	12.1	56.0
8.576	N	9.0	9.8	46.1	13.9	60.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.916	N	9.0	9.7	32.1	13.9	46.0
1.044	L1	9.0	9.7	30.1	15.9	46.0
2.684	L1	9.0	9.7	31.6	14.4	46.0
2.808	L1	9.0	9.7	31.6	14.4	46.0
3.604	N	9.0	9.7	26.6	19.4	46.0
4.208	N	9.0	9.7	32.1	13.9	46.0
6.648	N	9.0	9.7	33.9	16.1	50.0
7.884	N	9.0	9.7	35.5	14.5	50.0
8.576	N	9.0	9.8	36.1	13.9	50.0
9.152	N	9.0	9.8	35.9	14.1	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)

- Configuration 1, Operating Mode 4 : P1284 Duplex Print & Network Ping & Scan to USB

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)

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	54.6	11.4	66.0
0.190	N	9.0	9.7	46.5	17.4	63.9
0.200	L1	9.0	9.7	44.8	18.7	63.5
3.216	L1	9.0	9.8	43.8	12.2	56.0
3.752	N	9.0	9.7	39.4	16.6	56.0
4.116	L1	9.0	9.7	41.4	14.6	56.0
6.600	L1	9.0	9.7	44.2	15.8	60.0
7.296	L1	9.0	9.8	44.6	15.4	60.0
8.136	L1	9.0	9.8	45.1	14.9	60.0
10.560	N	9.0	9.8	41.3	18.7	60.0

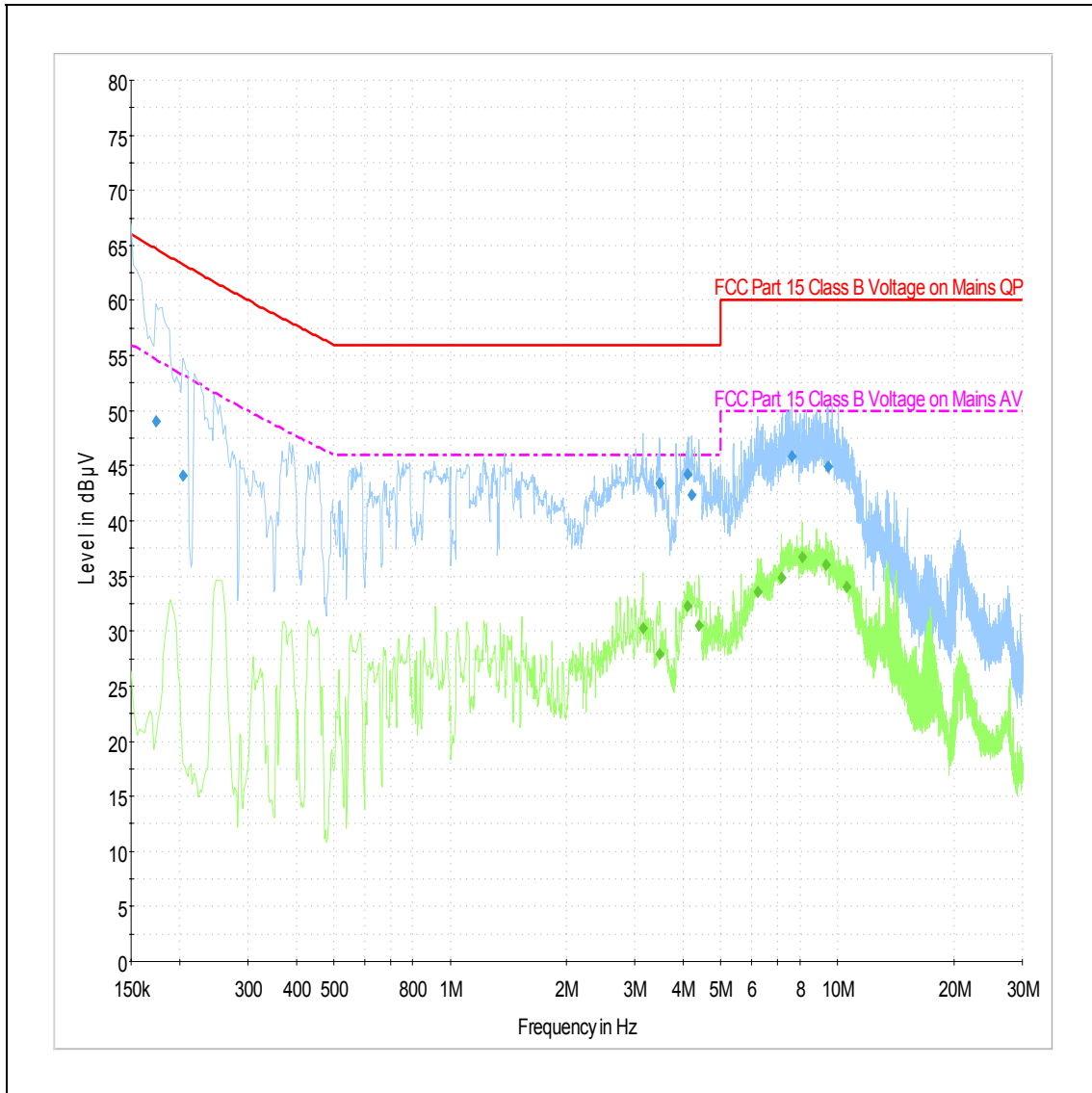
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
3.120	L1	9.0	9.7	31.3	14.7	46.0
3.364	L1	9.0	9.7	31.7	14.3	46.0
4.112	L1	9.0	9.7	31.5	14.5	46.0
4.460	N	9.0	9.7	30.1	15.9	46.0
4.800	L1	9.0	9.7	28.6	17.4	46.0
6.600	L1	9.0	9.7	36.0	14.0	50.0
7.292	L1	9.0	9.8	36.1	13.9	50.0
8.004	L1	9.0	9.8	35.9	14.1	50.0
9.804	L1	9.0	9.8	34.1	15.9	50.0
13.420	N	9.0	9.9	36.2	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)

- Configuration 1, Operating Mode 5 : Wireless Duplex Print & Scan to PC

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)

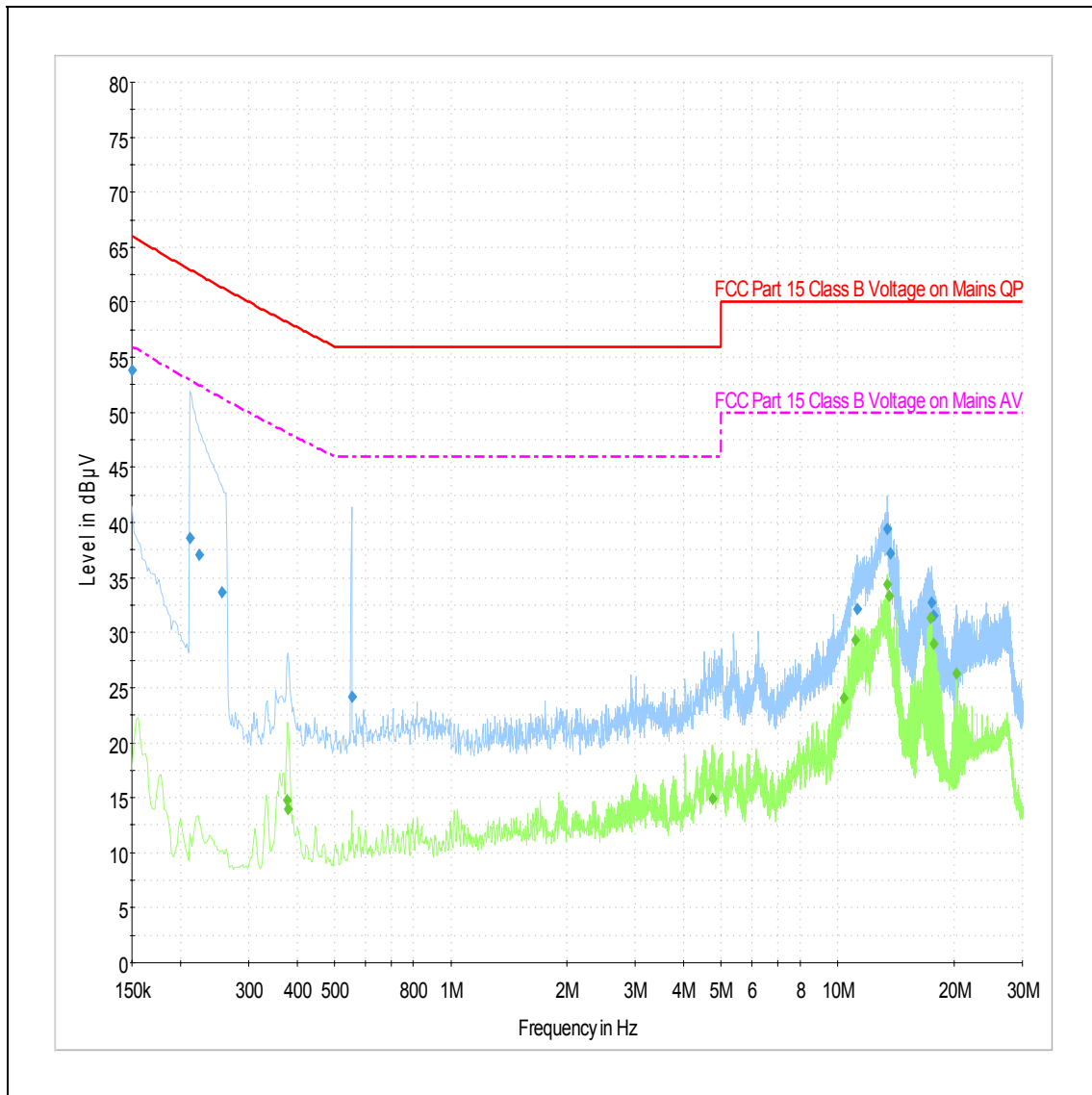
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	L1	9.0	9.7	54.8	11.2	66.0
0.174	N	9.0	9.7	49.1	15.6	64.7
0.204	N	9.0	9.7	44.1	19.2	63.3
3.476	L1	9.0	9.7	43.4	12.6	56.0
4.088	N	9.0	9.7	44.2	11.8	56.0
4.196	L1	9.0	9.7	42.4	13.6	56.0
7.600	N	9.0	9.7	45.9	14.1	60.0
9.452	N	9.0	9.8	44.9	15.1	60.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
3.144	N	9.0	9.7	30.3	15.7	46.0
3.472	L1	9.0	9.7	27.9	18.1	46.0
4.092	N	9.0	9.7	32.2	13.8	46.0
4.392	N	9.0	9.7	30.5	15.5	46.0
6.228	L1	9.0	9.7	33.5	16.5	50.0
7.176	L1	9.0	9.8	34.8	15.2	50.0
8.108	N	9.0	9.8	36.7	13.3	50.0
9.332	N	9.0	9.8	36.1	13.9	50.0
10.580	N	9.0	9.8	34.0	16.0	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)

- Configuration 2, Operating Mode 1 : Standby Mode

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)

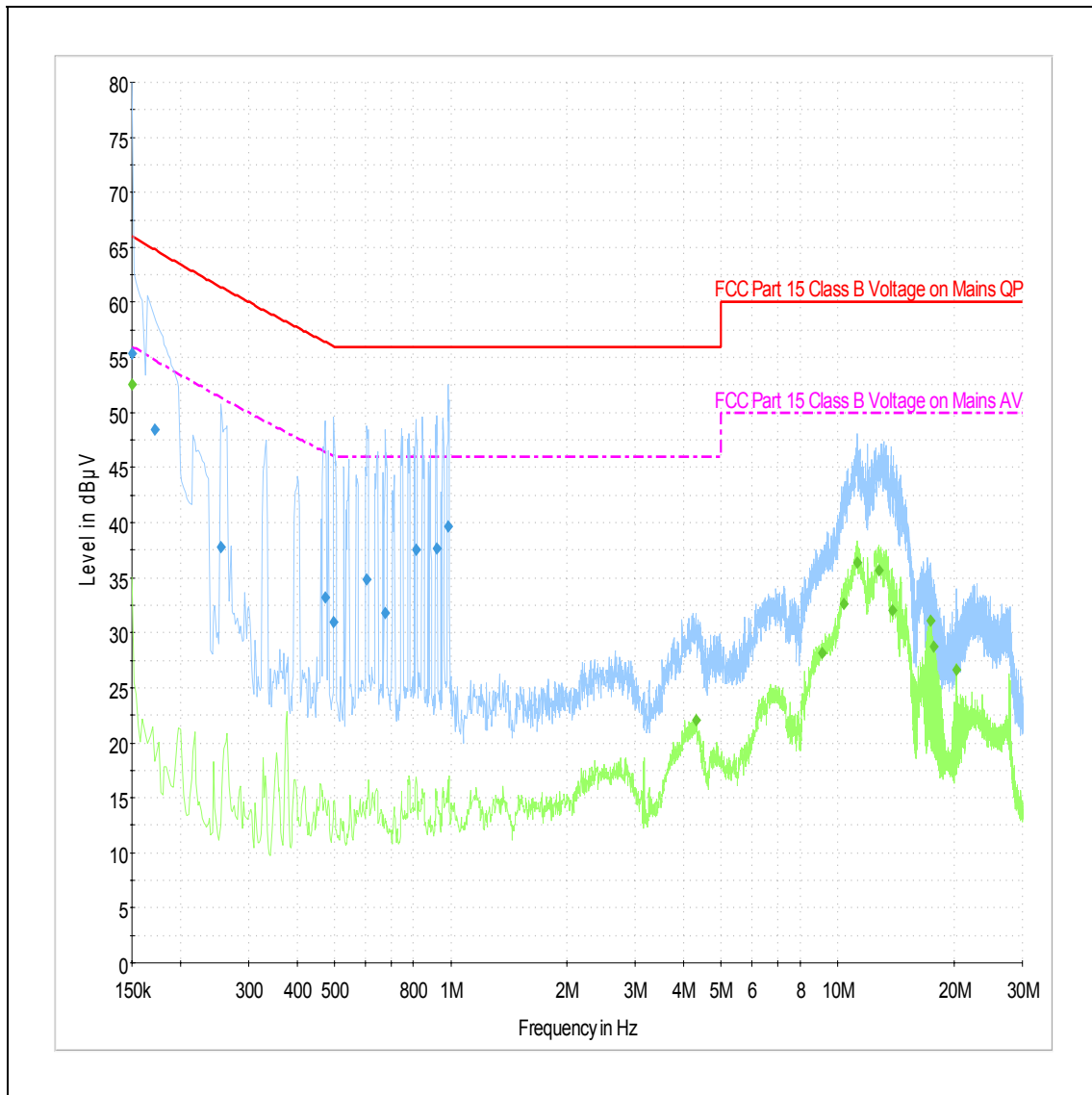
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	L1	9.0	9.7	53.9	12.1	66.0
0.212	L1	9.0	9.7	38.6	24.4	63.0
0.224	L1	9.0	9.7	37.1	25.4	62.5
0.256	L1	9.0	9.7	33.7	27.7	61.4
0.554	L1	9.0	9.7	24.2	31.8	56.0
11.196	N	9.0	9.8	32.1	27.9	60.0
13.420	N	9.0	9.9	39.4	20.6	60.0
13.664	L1	9.0	9.9	37.2	22.8	60.0
17.496	L1	9.0	10.0	32.8	27.2	60.0
17.680	L1	9.0	10.0	31.5	28.5	60.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.378	L1	9.0	9.7	14.8	33.3	48.2
0.380	L1	9.0	9.7	13.9	34.2	48.1
4.760	N	9.0	9.7	14.9	31.1	46.0
10.380	N	9.0	9.8	24.1	25.9	50.0
11.116	N	9.0	9.8	29.4	20.6	50.0
13.420	N	9.0	9.9	34.4	15.6	50.0
13.604	N	9.0	9.9	33.4	16.6	50.0
17.312	L1	9.0	10.0	31.4	18.6	50.0
17.680	N	9.0	10.0	29.0	21.0	50.0
20.260	L1	9.0	10.0	26.3	23.7	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)

- Configuration 2, Operating Mode 2 : DADF Copy & Fax Rx

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)

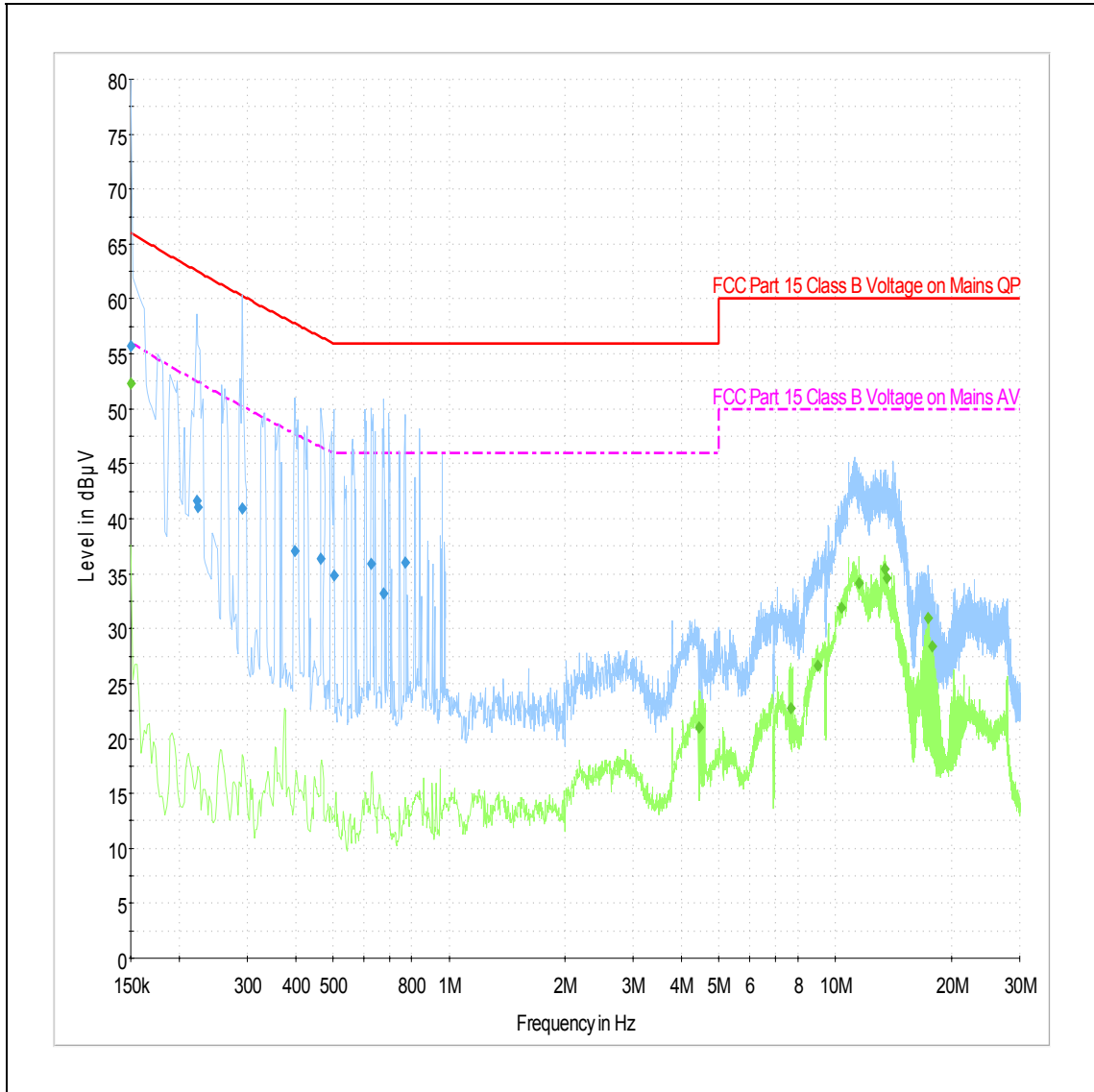
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	55.4	10.6	66.0
0.172	L1	9.0	9.7	48.4	16.4	64.8
0.254	L1	9.0	9.7	37.8	23.6	61.4
0.472	L1	9.0	9.7	33.2	23.2	56.4
0.498	N	9.0	9.7	31.0	25.0	56.0
0.606	L1	9.0	9.7	34.8	21.2	56.0
0.678	L1	9.0	9.7	31.8	24.2	56.0
0.812	L1	9.0	9.7	37.6	18.4	56.0
0.922	N	9.0	9.7	37.7	18.3	56.0
0.984	N	9.0	9.7	39.7	16.3	56.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	52.5	3.5	56.0
4.292	N	9.0	9.7	22.0	24.0	46.0
9.088	N	9.0	9.8	28.2	21.8	50.0
10.364	N	9.0	9.8	32.6	17.4	50.0
11.220	N	9.0	9.8	36.4	13.6	50.0
12.748	N	9.0	9.9	35.6	14.4	50.0
13.816	L1	9.0	9.9	32.0	18.0	50.0
17.312	L1	9.0	10.0	31.1	18.9	50.0
17.680	L1	9.0	10.0	28.7	21.3	50.0
20.260	N	9.0	10.0	26.7	23.3	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)

- Configuration 2, Operating Mode 3 : Fax Tx & USB Duplex Print

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)

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	55.7	10.3	66.0
0.222	N	9.0	9.7	41.6	21.0	62.6
0.224	N	9.0	9.7	41.0	21.5	62.5
0.292	N	9.0	9.7	41.0	19.3	60.3
0.398	L1	9.0	9.7	37.1	20.7	57.8
0.466	L1	9.0	9.7	36.3	20.2	56.5
0.502	N	9.0	9.7	34.8	21.2	56.0
0.630	N	9.0	9.7	35.9	20.1	56.0
0.678	L1	9.0	9.7	33.2	22.8	56.0
0.770	N	9.0	9.7	36.0	20.0	56.0

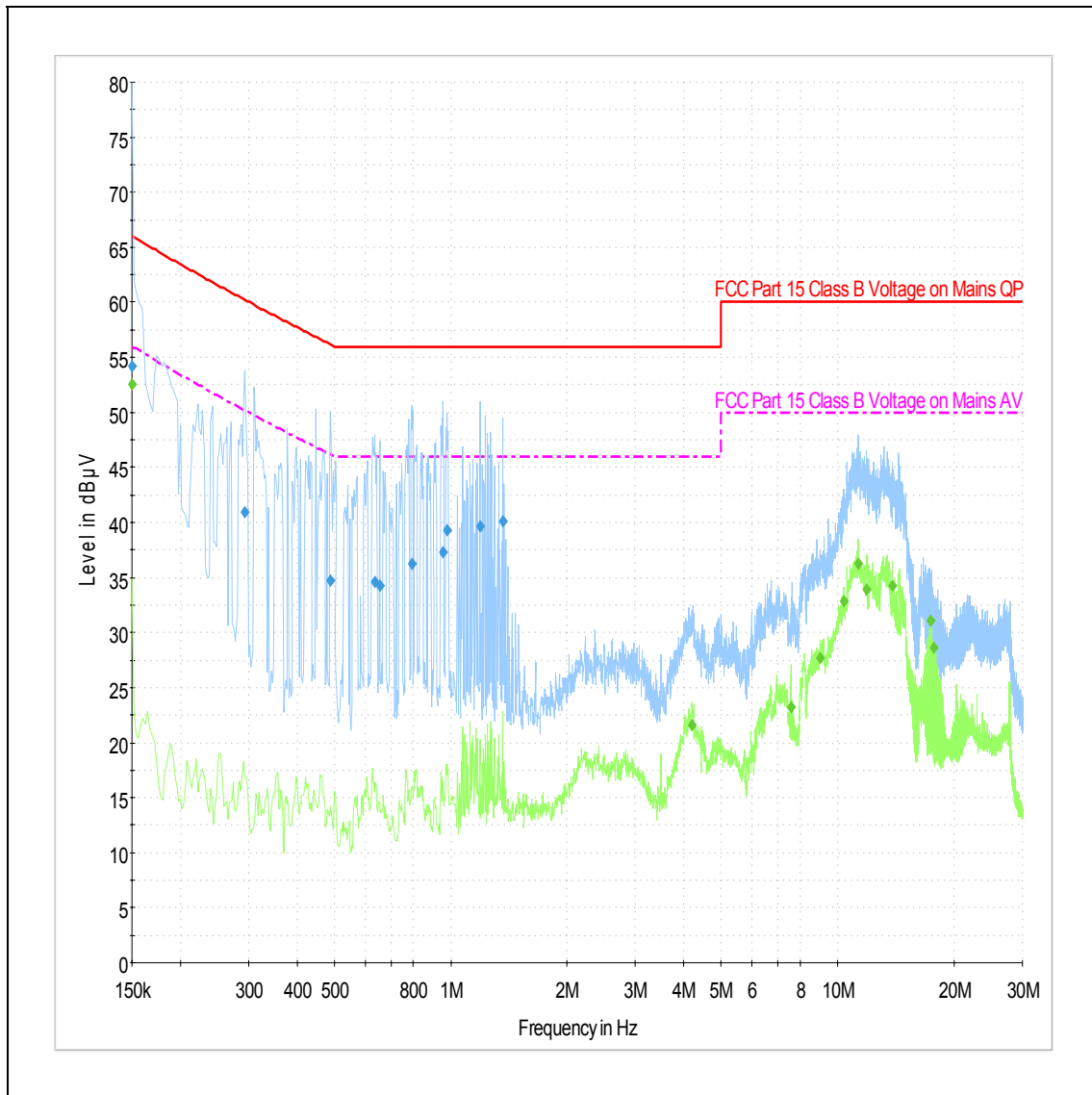
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.150	L1	9.0	9.7	52.3	13.7	56.0
4.436	N	9.0	9.7	21.0	25.0	46.0
7.676	N	9.0	9.7	22.7	27.3	50.0
8.988	N	9.0	9.8	26.6	23.4	50.0
10.360	N	9.0	9.8	31.9	18.1	50.0
11.524	N	9.0	9.8	34.2	15.8	50.0
13.420	L1	9.0	9.9	35.4	14.6	50.0
13.604	L1	9.0	9.9	34.7	15.3	50.0
17.312	L1	9.0	10.0	31.0	19.0	50.0
17.800	N	9.0	10.0	28.4	21.6	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)

- Configuration 2, Operating Mode 4 : P1284 Duplex Print & Network Print & Scan to USB

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)

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	L1	9.0	9.7	54.2	11.8	66.0
0.294	N	9.0	9.7	41.0	19.2	60.2
0.488	L1	9.0	9.7	34.8	21.4	56.2
0.634	L1	9.0	9.7	34.6	21.4	56.0
0.654	N	9.0	9.7	34.2	21.8	56.0
0.792	N	9.0	9.7	36.2	19.8	56.0
0.954	L1	9.0	9.7	37.3	18.7	56.0
0.978	N	9.0	9.7	39.3	16.7	56.0
1.188	N	9.0	9.7	39.6	16.4	56.0
1.360	N	9.0	9.7	40.1	15.9	56.0

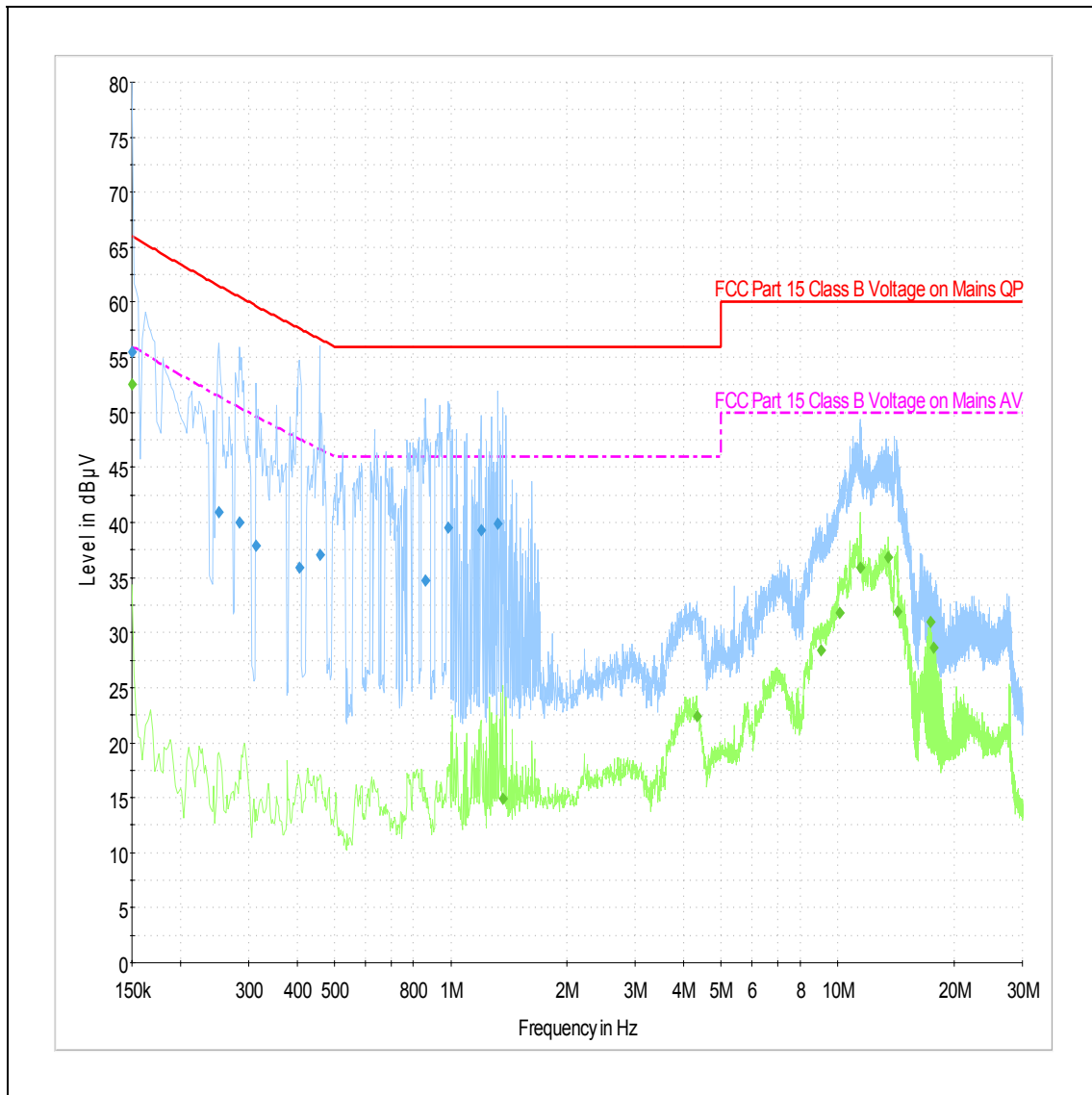
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	52.5	13.5	56.0
4.200	N	9.0	9.7	21.6	24.4	46.0
7.576	N	9.0	9.7	23.2	26.8	50.0
9.000	N	9.0	9.8	27.7	22.3	50.0
10.368	N	9.0	9.8	32.8	17.2	50.0
11.308	N	9.0	9.8	36.2	13.8	50.0
11.872	N	9.0	9.8	33.9	16.1	50.0
13.832	N	9.0	9.9	34.3	15.7	50.0
17.312	N	9.0	10.0	31.0	19.0	50.0
17.680	L1	9.0	10.0	28.6	21.4	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)

- Configuration 2, Operating Mode 5 : Wireless Duplex Print & Scan to PC

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)

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	55.5	10.5	66.0
0.252	L1	9.0	9.7	40.9	20.6	61.5
0.284	N	9.0	9.7	40.0	20.4	60.5
0.314	L1	9.0	9.7	37.9	21.8	59.7
0.406	N	9.0	9.7	35.9	21.7	57.6
0.458	L1	9.0	9.7	37.1	19.6	56.7
0.862	N	9.0	9.7	34.7	21.3	56.0
0.982	N	9.0	9.7	39.5	16.5	56.0
1.196	N	9.0	9.7	39.3	16.7	56.0
1.324	L1	9.0	9.7	39.8	16.2	56.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.150	N	9.0	9.7	52.6	13.4	56.0
1.360	L1	9.0	9.7	14.9	31.1	46.0
4.336	N	9.0	9.7	22.5	23.5	46.0
9.052	N	9.0	9.8	28.4	21.6	50.0
10.096	N	9.0	9.8	31.8	18.2	50.0
11.424	N	9.0	9.8	35.9	14.1	50.0
13.480	N	9.0	9.9	36.9	13.1	50.0
14.296	N	9.0	9.9	31.9	18.1	50.0
17.312	N	9.0	10.0	31.0	19.0	50.0
17.680	N	9.0	10.0	28.6	21.4	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)

4.2 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 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

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

Frequency range Limits MHz	Quasi-peak Limits dB dB($\mu\text{V}/\text{m}$)	
	Class A	Class B
30 to 230	40	30
230 to 1000	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. Note 3: 1 $\mu\text{V}/\text{m}$ is regarded as 0 dB.		

Peak measurements were made over the changeable frequency range 1GHz to 40GHz or 5th in accordance with internal maximum operating frequency at a measurement distance of 3m for the following antenna and turntable arrangements:

Antenna Height (Cm)	Antenna Polarisation	Turntable position (degrees)
100	Horizontal, Vertical	Continuous

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 100 cm 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.

4.2.1 Test instrumentation

Test instrumentation	Manufacturer	Model Name	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Bilog Antenna	Schaffner	CBL6112D	22604	2010-04-21	24
Bilog Antenna	Schaffner	CBL6112D	22602	2010-04-21	24
Horn Antenna	R&S	HF907	100016	2009-04-27	24
Test Receiver	R&S	ESIB-26	100147	2010-08-17	12
Test Receiver	R&S	ESIB-26	100288	2010-06-04	12
Preamplifier	R&S	SCU_F018_G35_ASF42_CNN(F)	10001	2010-04-19	12
Amplifier	Sonoma	310N	185861	2010-01-28	12
Amplifier	Sonoma	310N	251676	2010-01-28	12
Antenna Mast	MA4000	INN CO	-	N/A	N/A
Antenna Mast	MA4000	INN CO	-	N/A	N/A
Mast Controller	CO2000	INN CO	-	N/A	N/A
Test software	EP5/RE	TOYO	VER 3.1.20	N/A	N/A
RF Selector	NS4900	TOYO	-	N/A	N/A

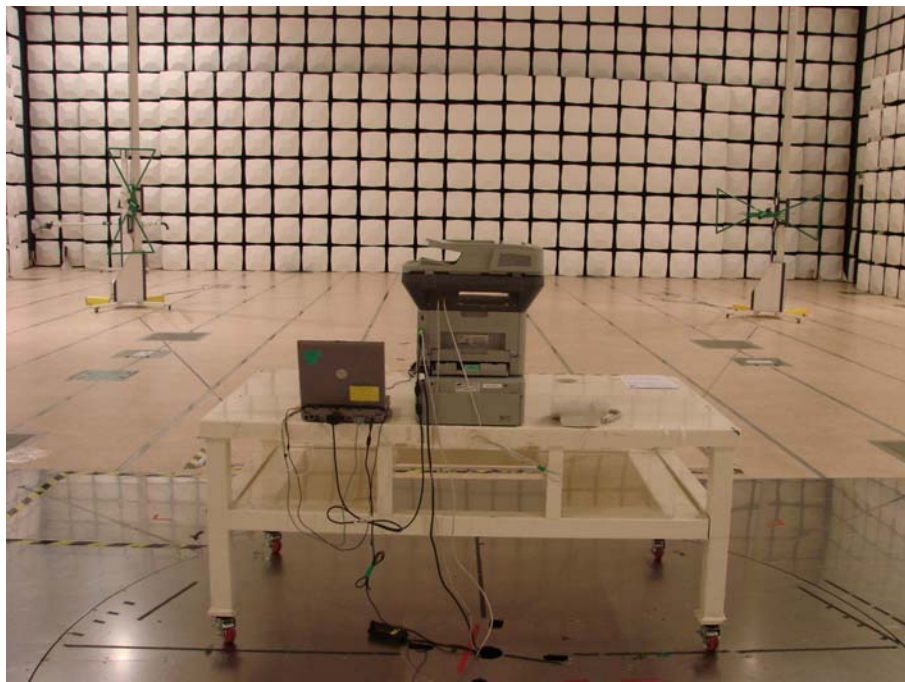
4.2.2 Temperature and humidity condition

Test date	4 November 2010	Test engineer		Kyeong Dong Kim	
Climate condition	Ambient temperature	23.4 °C	Relative humidity	34 %	
	Atmospheric pressure	102.1 kPa			
Test place	Semi-Anechoic Chamber				

4.2.3 Photograph of Test setup



Front

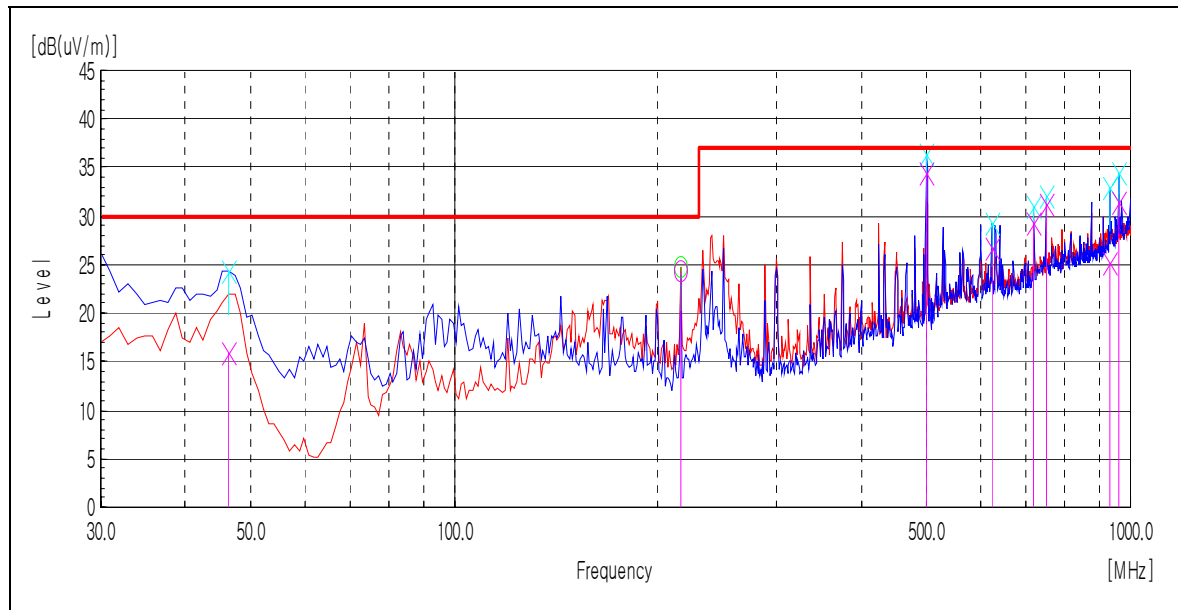


Rear

4.2.4 Test results (30 MHz ~ 1 GHz)

- Configuration 1, Operating Mode 1 : Standby

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
46.30	V	37.5	-21.6	15.9	30	14.1	126	13.4
216.01	H	43.8	-19.4	24.4	30	5.6	306	117.9
499.07	V	42.7	-8.7	34.0	37	3.0	308	16.2
625.00	V	32.4	-5.8	26.6	37	10.4	194	43.1
719.98	V	34.2	-4.9	29.3	37	7.7	241	176.5
750.03	V	35.4	-4.2	31.2	37	5.8	156	22.8
931.28	V	27.0	-1.9	25.1	37	11.9	150	45
959.97	V	32.3	-0.9	31.4	37	5.6	199	172.7

Note) Receiving antenna polarization : Horizontal and/or Vertical

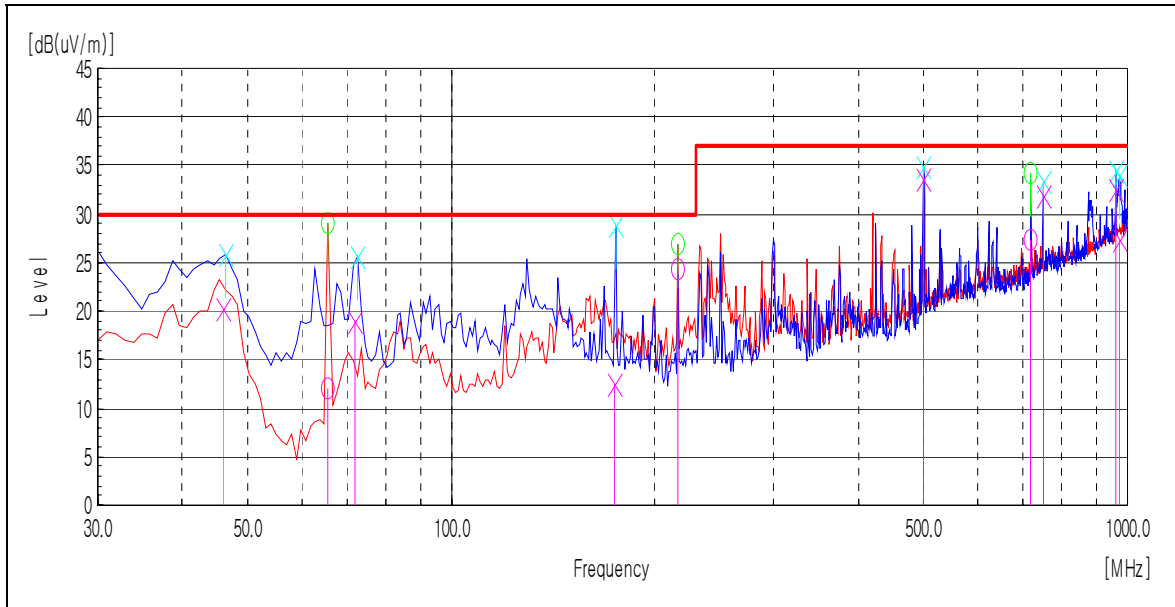
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Configuration 1, Operating Mode 2 : DADF Copy & Fax Rx

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
46.03	V	41.8	-21.5	20.3	30	9.7	100	82
65.73	H	37.0	-25.0	12.0	30	18.0	268	354
71.97	V	43.3	-24.4	18.9	30	11.1	186	32
174.57	V	32.2	-19.7	12.5	30	17.5	102	342
216.00	H	43.8	-19.4	24.4	30	5.6	289	155
499.00	V	42.4	-8.7	33.7	37	3.3	306	17
720.02	H	32.1	-4.8	27.3	37	9.7	277	235
750.03	V	36.1	-4.2	31.9	37	5.1	156	22
959.96	V	33.3	-0.9	32.4	37	4.6	153	26
973.03	V	28.2	-0.8	27.4	37	9.6	100	345

Note) Receiving antenna polarization : Horizontal and/or Vertical

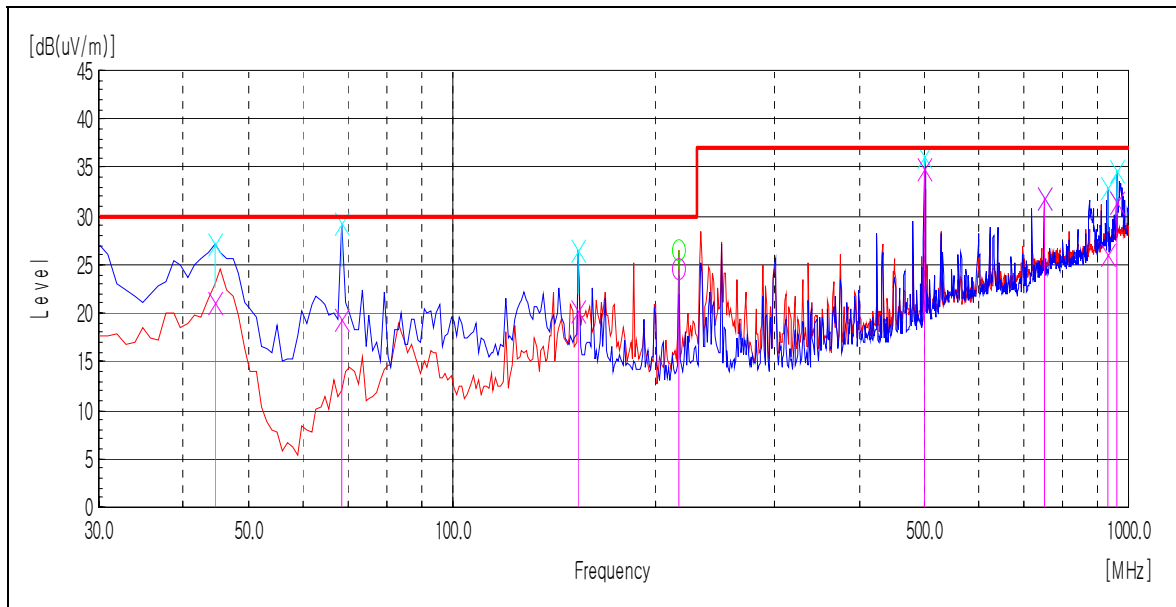
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Configuration 1, Operating Mode 3 : Fax Tx & USB Duplex Print

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
44.65	V	42.1	-20.9	21.2	30	8.8	255	33
68.56	V	44.0	-24.6	19.4	30	10.6	104	83
153.62	V	39.3	-19.0	20.3	30	9.7	400	355
216.00	H	43.9	-19.4	24.5	30	5.5	291	156
499.06	V	42.7	-8.7	34.0	37	3.0	281	360
749.99	V	36.1	-4.2	31.9	37	5.1	151	14
931.53	V	28.0	-1.9	26.1	37	10.9	100	354
959.97	V	32.4	-0.9	31.5	37	5.5	151	2

Note) Receiving antenna polarization : Horizontal and/or Vertical

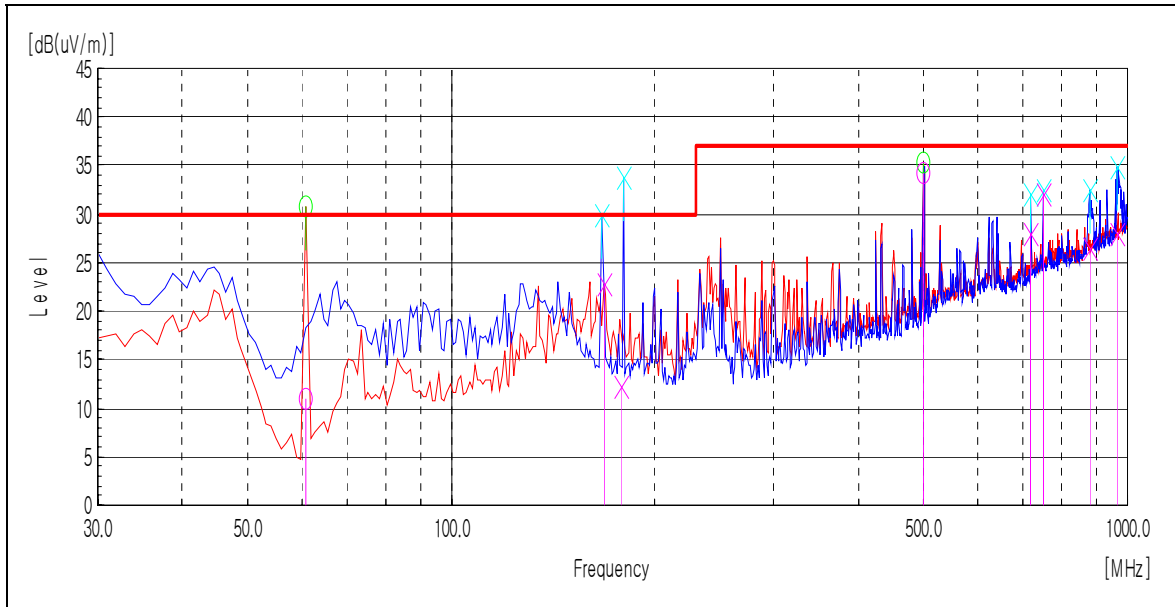
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Configuration 1, Operating Mode 4 : P1284 Duplex Print & Network Print & Scan to USB

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
60.99	H	36.0	-25.1	10.9	30	19.1	158	335
168.00	V	42.3	-19.6	22.7	30	7.3	106	29.3
178.00	V	32.0	-19.7	12.3	30	17.7	103	23.8
499.97	H	42.5	-8.6	33.9	37	3.1	145	42.7
719.99	V	32.8	-4.9	27.9	37	9.1	207	359.3
750.01	V	36.4	-4.2	32.2	37	4.8	163	29.5
878.75	V	29.2	-2.8	26.4	37	10.6	100	21
965.77	V	28.7	-0.8	27.9	37	9.1	102	302

Note) Receiving antenna polarization : Horizontal and/or Vertical

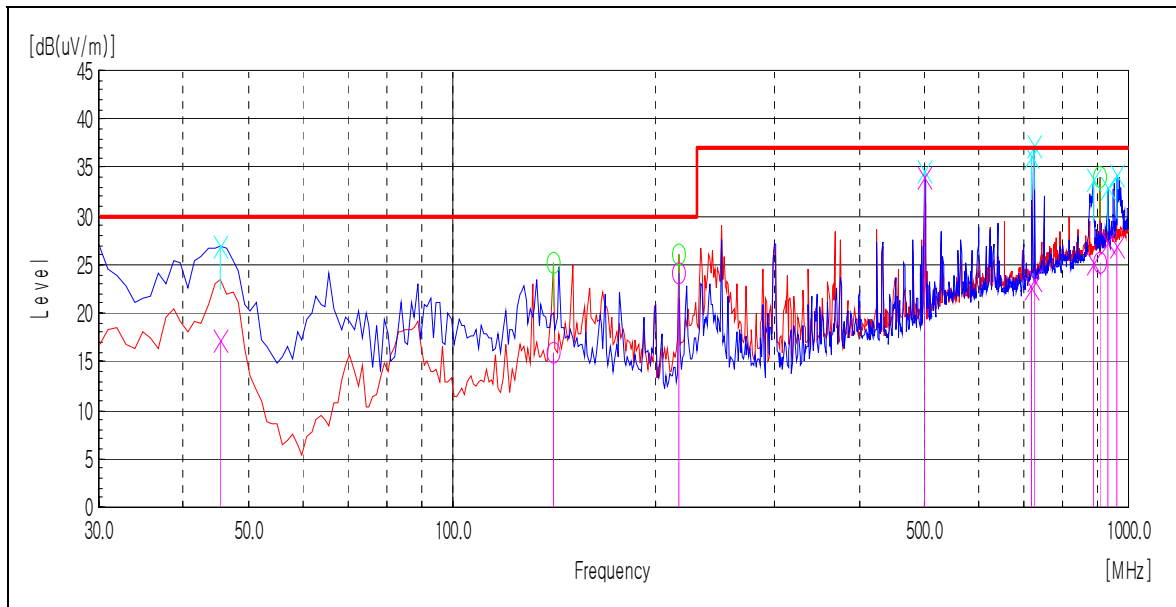
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Configuration 1, Operating Mode 5 : Wireless Duplex Print & Scan to PC

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
45.46	V	38.4	-21.2	17.2	30	12.8	325	359.5
141.10	H	34.1	-18.1	16.0	30	14.0	203	355.7
216.01	H	43.5	-19.4	24.1	30	5.9	302	155.5
499.02	V	42.6	-8.7	33.9	37	3.1	300	16.5
719.97	V	27.5	-4.9	22.6	37	14.4	308	51.1
726.17	V	28.1	-4.6	23.5	37	13.5	400	13.6
886.56	V	27.8	-2.7	25.1	37	11.9	132	359.6
908.07	H	27.2	-2.1	25.1	37	11.9	100	6.3
933.50	V	29.1	-1.8	27.3	37	9.7	100	355.3
960.855	V	27.8	-0.9	26.9	37	10.1	103	0.3

Note) Receiving antenna polarization : Horizontal and/or Vertical

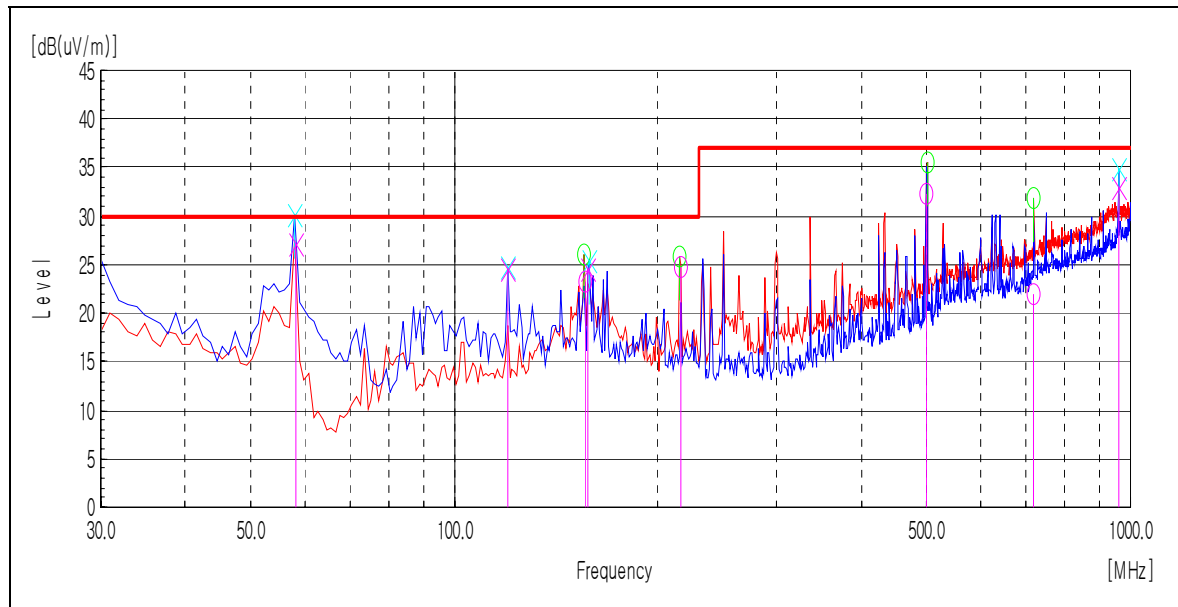
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Configuration 2, Operating Mode 1 : Standby

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
58.20	V	52.2	-25.0	27.2	30	2.8	124	48.6
120.00	V	42.1	-17.6	24.5	30	5.5	101	48.6
156.02	H	42.1	-18.9	23.2	30	6.8	395	48.6
157.49	V	43.8	-19.3	24.5	30	5.5	103	80.8
216.00	H	44.1	-19.4	24.7	30	5.3	396	149.2
499.98	H	40.8	-8.6	32.2	37	4.8	172	48.2
719.97	H	26.8	-4.9	21.9	37	15.1	309	130.9
959.95	V	33.9	-0.9	33.0	37	4.0	173	12.1

Note1) Receiving antenna polarization : Horizontal and/or Vertical

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

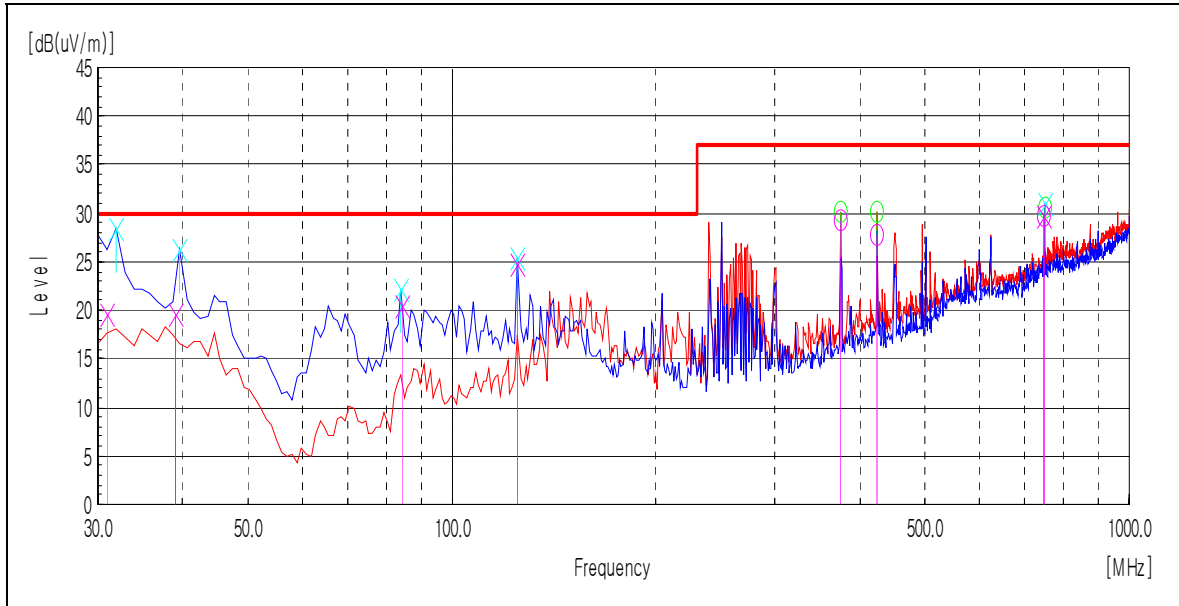
Level QP(Quasi-Peak) = Reading QP + Factor(Antenna Factor + Cable Loss - Amp. Gain)

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

Note2) The noise at the frequency 58.2MHz is from USB optical mouse, therefore it NOT from the EUT.

- Configuration 2, Operating Mode 2 : DADF Copy & Fax Rx

Test Graph and Results



Note) Receiving antenna polarization : Horizontal and/or Vertical

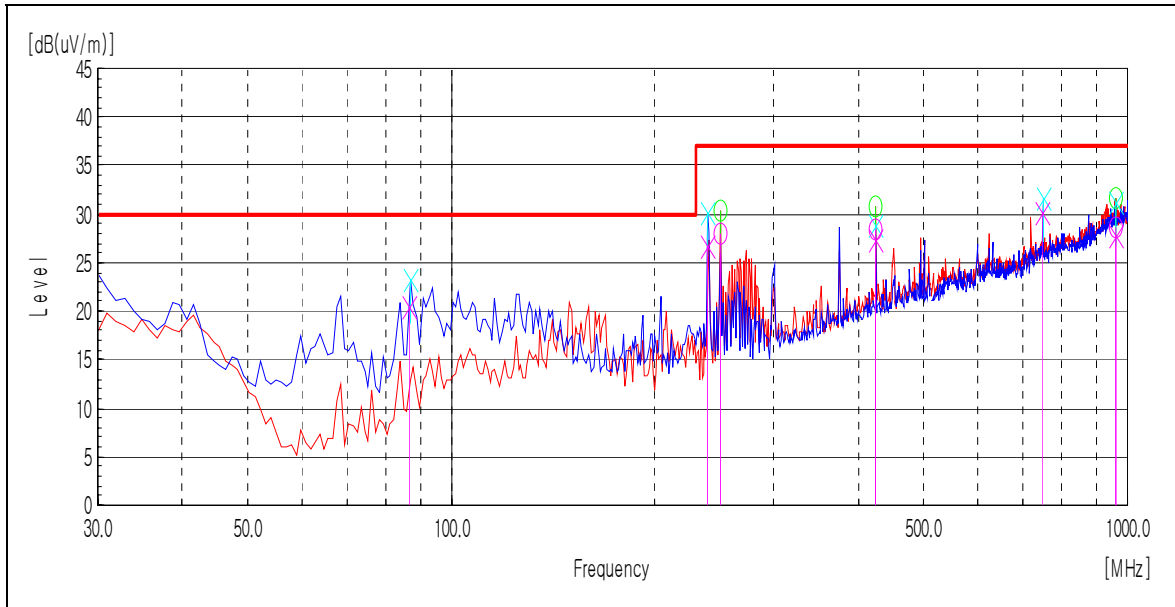
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Configuration 2, Operating Mode 3 : Fax Tx & USB Duplex Print

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
86.65	V	42.6	-22.1	20.5	30	9.5	103	318
239.35	V	44.0	-17.2	26.8	37	10.2	365	180
250.23	H	43.4	-15.5	27.9	37	9.1	267	273
424.35	H	38.5	-10.0	28.5	37	8.5	100	174
424.35	V	37.3	-9.9	27.4	37	9.6	268	324
749.24	V	34.4	-4.2	30.2	37	6.8	102	8
960.34	V	28.6	-0.9	27.7	37	9.3	100	40
960.88	H	29.7	-1.1	28.6	37	8.4	397	60

Note) Receiving antenna polarization : Horizontal and/or Vertical

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

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

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

- Configuration 2, Operating Mode 4 : P1284 Duplex Print & Network Ping & Scan to USB

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
58.14	V	52.5	-25.0	27.5	30	2.5	394	321.1
119.99	V	39.8	-17.6	22.2	30	7.8	204	25.8
168.02	V	43.3	-19.6	23.7	30	6.3	103	92.8
216.00	H	43.2	-19.4	23.8	30	6.2	364	155.9
499.99	V	42.7	-8.7	34.0	37	3.0	269	359.6
720.09	H	34.1	-4.8	29.3	37	7.7	285	71
851.23	V	26.7	-2.9	23.8	37	13.2	150	320.3
959.98	V	30.0	-0.9	29.1	37	7.9	200	68

Note1) Receiving antenna polarization : Horizontal and/or Vertical

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

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

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

Note2) The noise at the frequency 58.14MHz is from USB optical mouse, therefore it NOT from the EUT.

- Configuration 2, Operating Mode 5 : Wireless Duplex Print & Scan to PC

Test Graph and Results



Frequency [MHz]	(P)	Reading QP [dB(uV)]	Factor [dB(1/m)]	Level QP [dB(uV/m)]	Limit [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
58.16	V	52.0	-25.0	27.0	30	3.0	208	288.4
70.24	V	39.4	-24.5	14.9	30	15.1	248	217
216.01	H	44.8	-19.4	25.4	30	4.6	400	155.5
499.99	V	41.0	-8.7	32.3	37	4.7	322	16.5
720.00	H	33.4	-4.9	28.5	37	8.5	303	275.6
959.97	V	33.4	-0.9	32.5	37	4.5	156	25.9

Note1) Receiving antenna polarization : Horizontal and/or Vertical

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

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

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

Note2) The noise at the frequency 58.16MHz is from USB optical mouse, therefore it NOT from the EUT.

4.2.5 Test results (1 GHz ~ 5 GHz)

- Configuration 1, Operating Mode 1 : Standby

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2098.20	V	51.2	-5.9	45.3	74	28.7	100	75
2102.21	H	51.4	-5.9	45.5	74	28.5	100	106
2402.81	H	51.9	-3.4	48.5	74	25.5	100	57.8
2402.81	V	45.9	-3.4	42.5	74	31.5	100	90.2
2703.41	V	43.6	-1.4	42.2	74	31.8	100	42.8

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 1, Operating Mode 2 : DADF Copy & Fax Rx**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2098.20	H	52.2	-5.9	46.3	74	27.7	100	90
2102.21	V	51.7	-5.9	45.8	74	28.2	100	0
2398.80	V	45.5	-3.4	42.1	74	31.9	100	105
2402.81	H	52.9	-3.4	49.5	74	24.5	100	58.1
2703.41	V	44.8	-1.4	43.4	74	30.6	100	73.6

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 1, Operating Mode 3 : Fax Tx & USB Duplex Print**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1064.13	V	61.6	-14.9	46.7	74	27.3	100	122
2094.19	V	51.4	-6.0	45.4	74	28.6	100	74
2102.21	H	51.9	-5.9	46.0	74	28.0	100	106
2402.81	H	52.4	-3.4	49.0	74	25.0	100	42.9
2571.14	H	53.7	-2.2	51.5	74	22.5	100	27.1

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 1, Operating Mode 4 : P1284 Duplex Print & Network Print & Scan to USB**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2098.20	V	52.7	-5.9	46.8	74	27.2	100	59
2098.20	H	52.2	-5.9	46.3	74	27.7	100	99
2394.79	H	52.3	-3.5	48.8	74	25.2	100	51
2402.81	V	46.2	-3.4	42.8	74	31.2	100	91.7
2703.41	V	44.6	-1.4	43.2	74	30.8	100	74.8

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 1, Operating Mode 5 : Wireless Duplex Print & Scan to PC**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2098.20	V	51.3	-5.9	45.4	74	28.6	100	74
2402.81	H	52.2	-3.4	48.8	74	25.2	100	43
2543.09	H	43.4	-2.4	41.0	74	33.0	100	281
2619.24	H	46.1	-1.9	44.2	74	29.8	100	233.6
2699.40	V	44.1	-1.5	42.6	74	31.4	100	73.9

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 2, Operating Mode 1 : Standby**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2102.21	H	51.9	-5.9	46.0	74	28.0	100	104
2402.81	H	51.9	-3.4	48.5	74	25.5	100	57
2543.09	H	44.6	-2.4	42.2	74	31.8	100	4.9
2619.24	H	45.8	-1.9	43.9	74	30.1	100	295.1
2703.41	V	43.7	-1.4	42.3	74	31.7	100	42.6
3004.01	V	41.5	0.3	41.8	74	32.2	100	157.8

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 2, Operating Mode 2 : DADF Copy & Fax Rx**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2098.20	V	51.7	-5.9	45.8	54	8.2	100	59
2098.20	H	51.6	-5.9	45.7	54	8.3	100	96
2402.81	H	52.3	-3.4	48.9	54	5.1	100	48
2410.82	V	45.9	-3.3	42.6	54	11.4	100	93
2995.99	V	43.0	0.3	43.3	54	10.7	100	93

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 2, Operating Mode 3 : Fax Tx & USB Duplex Print**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2098.20	V	51.6	-5.9	45.7	74	28.3	100	57
2102.21	H	51.8	-5.9	45.9	74	28.1	100	106
2402.81	H	52.4	-3.4	49.0	74	25.0	100	43
2402.81	V	46.0	-3.4	42.6	74	31.4	100	104.9
2703.41	V	43.7	-1.4	42.3	74	31.7	100	73.2

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 2, Operating Mode 4 : P1284 Duplex Print & Network Ping & Scan to USB**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2102.21	H	51.9	-5.9	46.0	74	28.0	100	97
2102.21	V	51.3	-5.9	45.4	74	28.6	100	58
2398.80	V	45.4	-3.4	42.0	74	32.0	100	90
2402.81	H	52.2	-3.4	48.8	74	25.2	100	48.7
2995.99	V	41.5	0.3	41.8	74	32.2	100	105.5

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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)

- **Configuration 2, Operating Mode 5 : Wireless Duplex Print & Scan to PC**

Peak Measurement

Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Height [cm]	Angle [deg]
2410.82	H	52.1	-3.3	48.8	74	25.2	100	57
2102.21	V	52.1	-5.9	46.2	74	27.8	100	57
2703.41	V	44.0	-1.4	42.6	74	31.4	100	41
2402.81	V	46.4	-3.4	43.0	74	31.0	100	104.4
3601.20	V	36.1	2.7	38.8	74	35.2	100	62.6

Average Measurement

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Limit [dB(uV/m)]	Margin AV [dB]	Height [cm]	Angle [deg]
No need to test								

Note1) Any emissions that do NOT exceed average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

Level P K(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



Left View



Right View



Internal View-1



Internal View-2



Internal View-3



Internal View-4



Label Location

SAMSUNG USOC Jack Type:RJ11C Samsung Electronics Co., Ltd. Suwon, Korea, 443-742 Place: M264	Model:	SCX-5737FW	FCC ID : A3LSCX5737FW Contains FCC ID : MCLU98Z058 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:A3LFA07BSCX5737FW 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. Contains IC : 2878D-U98Z058 IC: 649E-SCX5737FW
	Volts:	AC 110-127V	
	Hertz:	50/60 Hz	
	Amps:	6.5A	
	Ringer Equivalence:	0.5B	
	Manufactured:		
		3UU7 E337632 I.T.E.	
Serial No.:			Made in China Fabriqu� en Chine REV.00

Rating Label