

EMC TEST REPORT

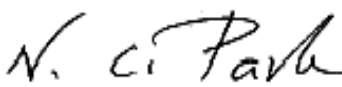
Project No.	LBE082799	Issue No.	1
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	416 Maetan 3-Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742	
	Date of application	September 4, 2008	
EUT	Type of device	Class B digital devices and peripherals	
	Equipment authorization	Cerification	
	FCC ID	A3LSCX5635FN	
	Kind of product	Mono Laser MFP	
	Model No.	SCX-5635FN	
		Variant Model No.	None
	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		September 8, 2008 ~ September 20, 2008	
Issue date		September 22, 2008	
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 	
This report is the test result about the sphere accredited by KOLAS which signed the Mutual Recognition Arrangement of International Laboratory Accreditation Cooperation. 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 SEC EMC Laboratory.			
 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 SEC EMC Laboratory 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 SEC EMC Laboratory is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

2.2 Accreditation and listing

Laboratory Qualifications		Remarks
	KOLAS(Korea Laboratory Accreditation Scheme)	Accredited : 124
	Radio Research Laboratory	Accredited : KR0004
	FCC(Federal Communications Commission)	Accredited : KR0004
	National Voluntary Laboratory Accreditation Program	Lab Code: 200623-0
	Norges Elektriske Materiellkontroll	Accredited : ELA 195
	VCCI (Voluntary Control Council for Interference by Information Technology Equipment)	C-2421,R-2224
	China Quality Certification Center	5-053, 5-054
	TUV Rhineland	H9354285
	GOST(GOSTSTANDART)	ROSTEST
	Elektrotechnicky Zkusebni Ustav	Reg. No.: 001
	IC(Industry Canada)	Assigned Code: 5871

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-5635FN	-	Samsung	A3LSCX5635FN
Notebook PC	PP18L	27182225373	Dell	DoC
AC Adapter	PA-1650-05D3	CN-0YD637-716 15-83C-0A0A	Dongguan Lite 2 nd Plant	For Notebook PC
Telephone	SP-F209K	KKAY413543K	Samsung	-
Headset	MH21	-	ATA	-
Serial Mouse	Serial Mouse	1022949	Microsoft	C3KMS1
USB Mouse	M-U69	HCA40205662	Logitech	DoC
USB Memory	TMFMP-C2161- 79B	-	ThumbDrive	DoC
USB Memory	HMDS-128C	-	HMDS	DoC

3.2 EUT operating mode (selected)

Operating Mode 1	Duplex Copy printing
Operating Mode 2	Duplex USB Printing
Operating Mode 3	Scan to USB
Operating Mode 4	Fax Tx

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;

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	10.0	No	EUT to K/P system
Ethernet	10.0	No	EUT to HUB
USB	1.8	Yes	EUT to notebook PC and Notebook PC to mouse
Serial	1.0	Yes	EUT to mouse
Headset	2.0	No	For headset

3.5 EUT Description

Item	Specification	Remarks
Processor	CHORUS3(360MHz)	-
Standard System memory	128MB DDR2 SDRAM (Option 256MB → MAX. 384MB)	-
Resolution	True 600x600dpi (Addressible 1200dpi support)	-
Copy Quality mode	Text : 600x300dpi(ADF) Mixed : 600x300dpi(ADF) Photo : 600x300dpi(ADF) ,600x600dpi (Platen)	-
Paper Handling	Paper Tray(standard) 250 Sheets 2nd Tray(optional) 250 Sheets Bypass Tray 50 Sheets	-
Power Rating	110~127 VAC, 7A, 50/60 Hz	-
Power Consumption	Power save mode : 1 Watts Printing mode: MAX. 600 Watts	-
Printer Language	GDI, PCL6, PCL5e PostScript Level3(Clone)	-
PC Interfaces	USB2.0, NW, FAX, WirelessLAN(option)	-
OS compatibility	MS Windows 98/2000/XP/NT/Me,MAC (English only, no status monitor, web download only) Linux: Red Hat 8.0~9.0, Fedora Core 1~3, Mandrake 9.0~10.2, SuSE 8.2~9.2. Windows 2003. Netware 4.x	-
Modes of Operation	USB Printing, ADF Scan, ADF Copy, 1200dpi Printing, Fax RX, Fax TX, Network Printing, Duplex Printing, Scan To USB	-
Intended Class for Emissions	Class B	-

3.6 Clock Frequencies

Kind of Clocks	Frequency[MHz]	Kind of Clocks	Frequency[MHz]
Main Source	12	Video	21.5625
CPU Internal	360	DDR2	166
USB Device	12	SCF	80
CCD(Mono copy)	8.57	CCD(Color copy)	10

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. All operating mode(s) selected were tested to show compliance with relevant standard for radiated disturbance below 1GHz and conducted disturbance. Radiated disturbance above 1GHz for operating mode that have minimum margin of radiated disturbance below 1GHz were tested and reported.

Power source for the EUT operation 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	± 1.4 dB
Radiated disturbance	Horizontal	± 3.8 dB
	Vertical	± 4.4 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(μV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

Note 1: 1 μV 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(μV)	
	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 μV is regarded as 0 dB.
Note 2: The limits shall decrease 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)
EMI TEST RECEIVER	R&S	ESCI	100368	2008-06-11	12
TWO-LINE V-NETWORK	R&S	ENV216	100456	2008-09-12	12
Artificial mains network	R&S	ESH3-Z5	831887/004	2008-06-18	12
EMI TEST RECEIVER	R&S	ESCI	100368	2008-06-11	N/A

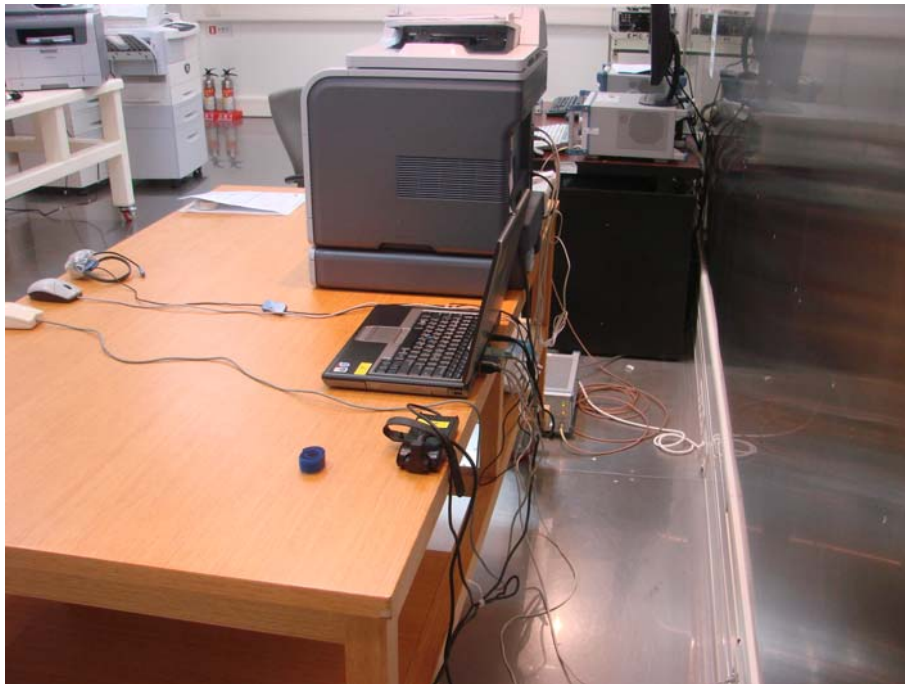
4.1.2 Temperature and humidity condition

Test date	September 20, 2008	Test engineer		Kyeong Dong Kim	
Climate condition	Ambient temperature	24.5 °C	Relative humidity		34 %
	Atmospheric pressure	101.1 kPa			
Test place	Shielded Room #1				

4.1.3 Photograph of Test Setup



Front

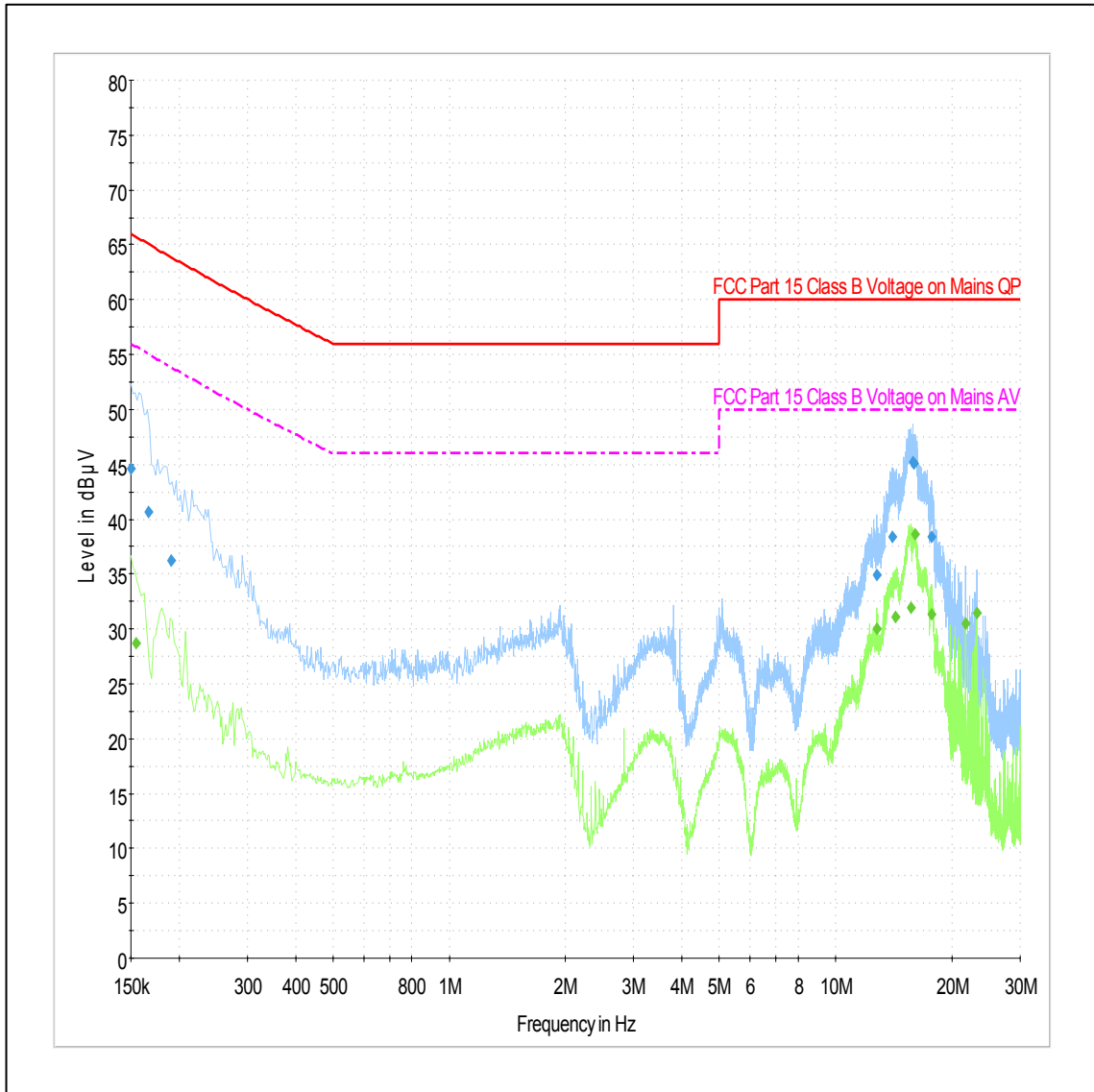


Rear

4.1.4 Test results (mains port)

- Operating Mode 1 : Duplex copy printing

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	9.62	44.62	21.38	66.00
0.167	N	9.0	9.63	40.69	24.38	65.07
0.191	L1	9.0	9.63	36.28	27.60	63.88
12.745	L1	9.0	10.03	34.95	25.05	60.00
13.961	N	9.0	10.06	38.41	21.59	60.00
15.866	N	9.0	10.11	45.22	14.78	60.00
15.929	N	9.0	10.12	45.09	14.91	60.00
17.705	N	9.0	10.16	38.40	21.60	60.00

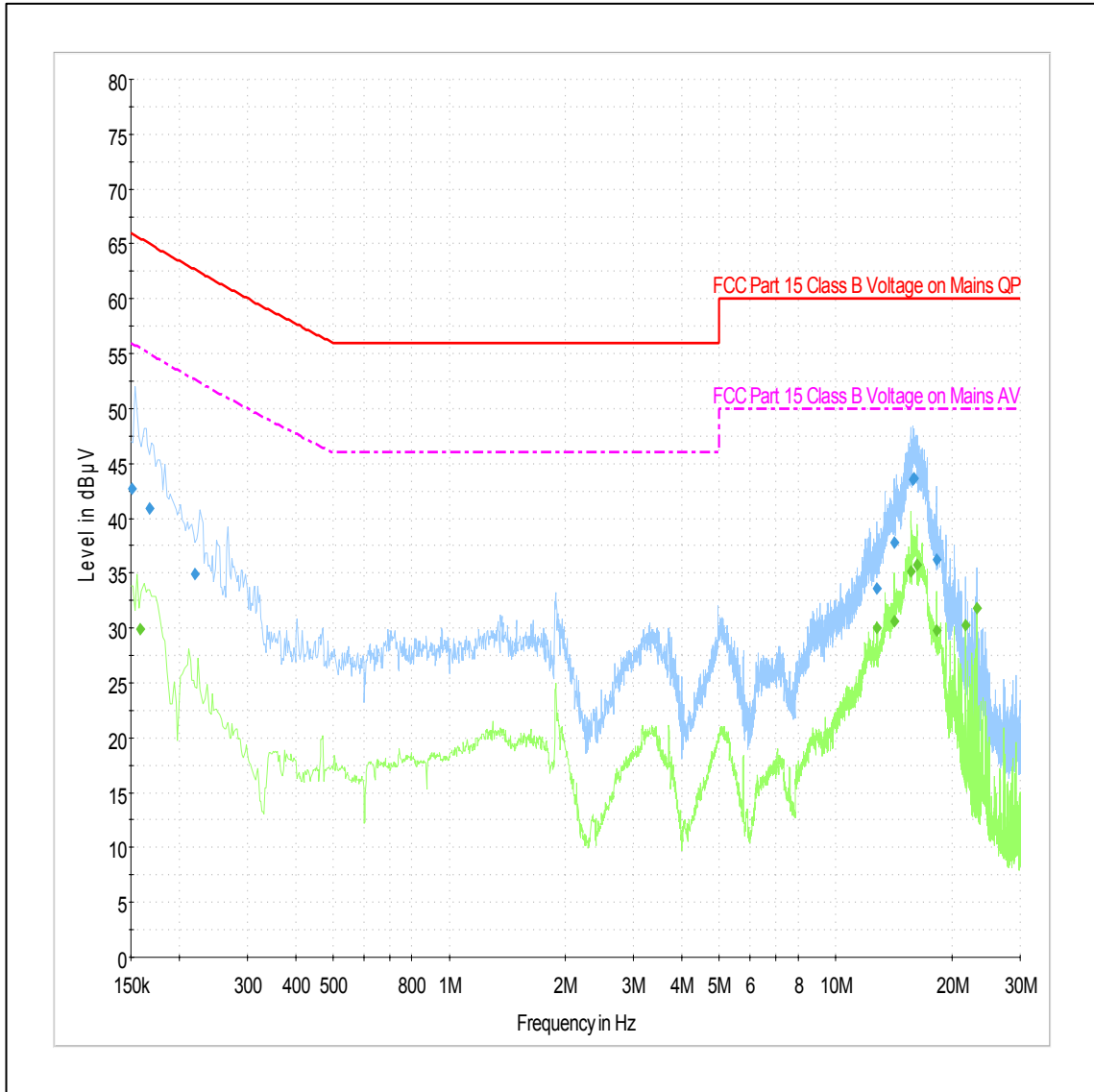
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.155	N	9.0	9.63	28.65	27.05	55.70
12.749	L1	9.0	10.03	30.03	19.97	50.00
14.279	N	9.0	10.07	31.04	18.96	50.00
15.625	N	9.0	10.11	31.98	18.02	50.00
16.067	N	9.0	10.12	38.66	11.34	50.00
17.689	L1	9.0	10.16	31.34	18.66	50.00
21.664	L1	9.0	10.26	30.55	19.45	50.00
23.129	N	9.0	10.32	31.50	18.50	50.00

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 : Duplex USB Printing

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)

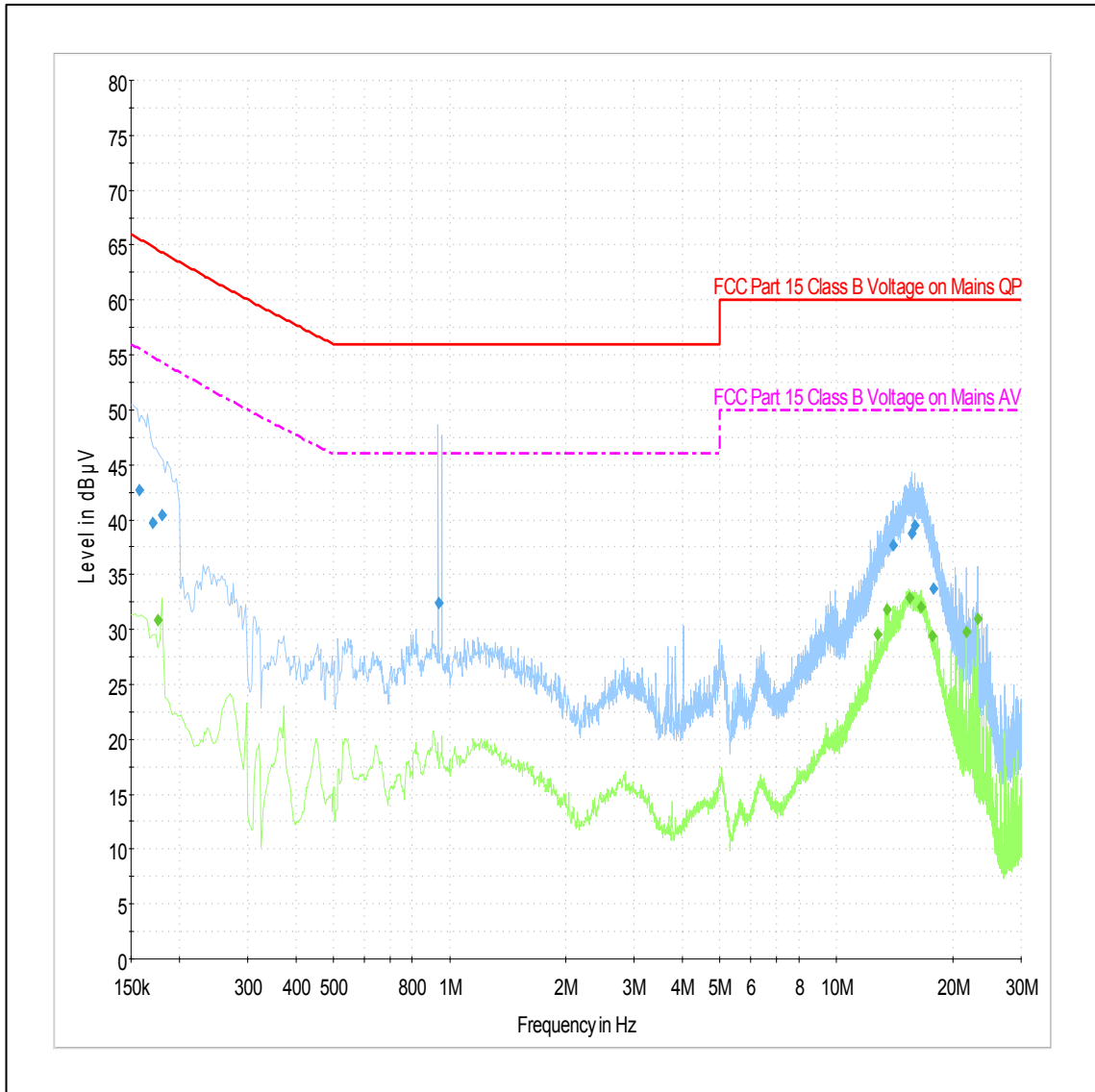
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.151	L1	9.0	9.62	42.67	23.27	65.94
0.168	L1	9.0	9.62	40.93	24.08	65.01
0.220	N	9.0	9.63	34.95	27.71	62.66
12.743	N	9.0	10.03	33.57	26.43	60.00
14.186	L1	9.0	10.07	37.73	22.27	60.00
15.872	N	9.0	10.11	43.54	16.46	60.00
15.934	N	9.0	10.12	43.68	16.32	60.00
18.217	N	9.0	10.18	36.22	23.78	60.00

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.159	L1	9.0	9.6	29.8	25.6	55.5
12.748	L1	9.0	10.0	30.0	20.0	50.0
14.180	L1	9.0	10.1	30.6	19.4	50.0
15.675	N	9.0	10.1	35.2	14.8	50.0
16.197	N	9.0	10.1	35.8	14.2	50.0
18.208	N	9.0	10.2	29.7	20.3	50.0
21.663	L1	9.0	10.3	30.2	19.8	50.0
23.129	L1	9.0	10.3	31.8	18.2	50.0

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

- Operating Mode 3 : 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)

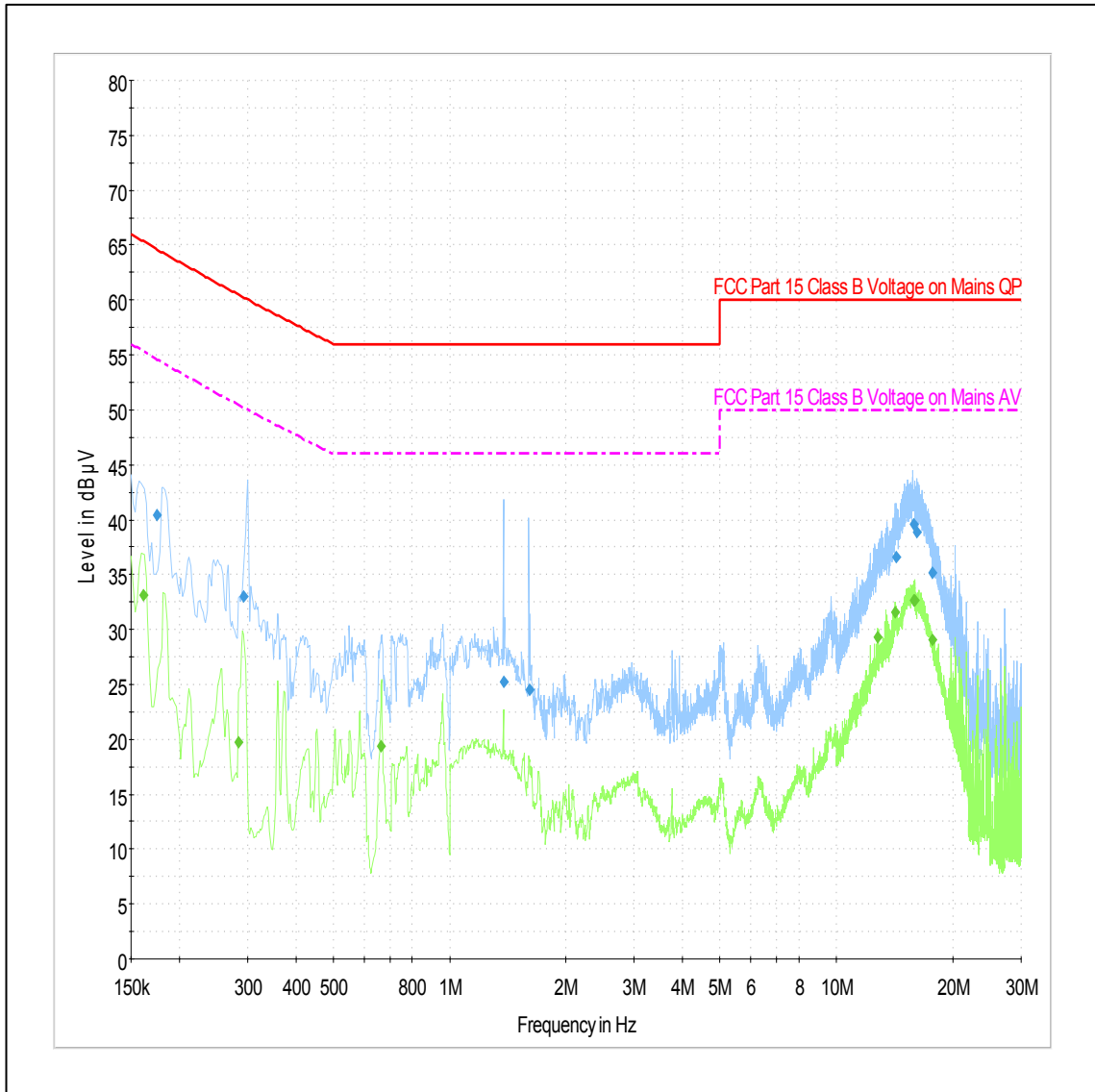
Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Quasi-Peak [dBuV]	Margin [dB]	Limit [dBuV]
0.158	N	9.0	9.6	42.7	22.9	65.5
0.171	L1	9.0	9.6	39.7	25.1	64.9
0.181	N	9.0	9.6	40.4	23.9	64.4
0.935	L1	9.0	9.7	32.4	23.6	56.0
14.031	L1	9.0	10.1	37.7	22.3	60.0
15.607	N	9.0	10.1	38.7	21.3	60.0
15.970	L1	9.0	10.1	39.4	20.6	60.0
17.745	L1	9.0	10.2	33.8	26.2	60.0

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.176	L1	9.0	9.6	30.9	23.7	54.6
12.748	L1	9.0	10.0	29.6	20.4	50.0
13.481	L1	9.0	10.1	31.8	18.2	50.0
15.404	L1	9.0	10.1	32.9	17.1	50.0
16.559	N	9.0	10.1	32.1	18.0	50.0
17.696	N	9.0	10.2	29.4	20.6	50.0
21.663	N	9.0	10.3	29.8	20.2	50.0
23.129	L1	9.0	10.3	31.0	19.0	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)

- Operating Mode 4 : FAX Tx

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]
0.175	N	9.0	9.63	40.39	24.26	64.65
0.293	N	9.0	9.62	33.04	27.21	60.25
1.378	N	9.0	9.68	25.17	30.83	56.00
1.608	L1	9.0	9.71	24.48	31.52	56.00
14.278	L1	9.0	10.07	36.64	23.36	60.00
15.786	L1	9.0	10.11	39.62	20.38	60.00
16.129	L1	9.0	10.12	38.85	21.15	60.00
17.693	N	9.0	10.16	35.15	24.85	60.00

Frequency [MHz]	Line	Bandwidth [kHz]	Factor [dB]	Average [dBuV]	Margin [dB]	Limit [dBuV]
0.162	L1	9.0	9.62	33.15	22.18	55.33
0.285	N	9.0	9.63	19.72	30.72	50.44
0.666	N	9.0	9.64	19.42	26.58	46.00
12.748	N	9.0	10.03	29.30	20.70	50.00
14.152	L1	9.0	10.07	31.62	18.38	50.00
15.789	L1	9.0	10.11	32.59	17.41	50.00
15.909	L1	9.0	10.11	32.68	17.32	50.00
17.694	L1	9.0	10.16	29.12	20.88	50.00

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.		

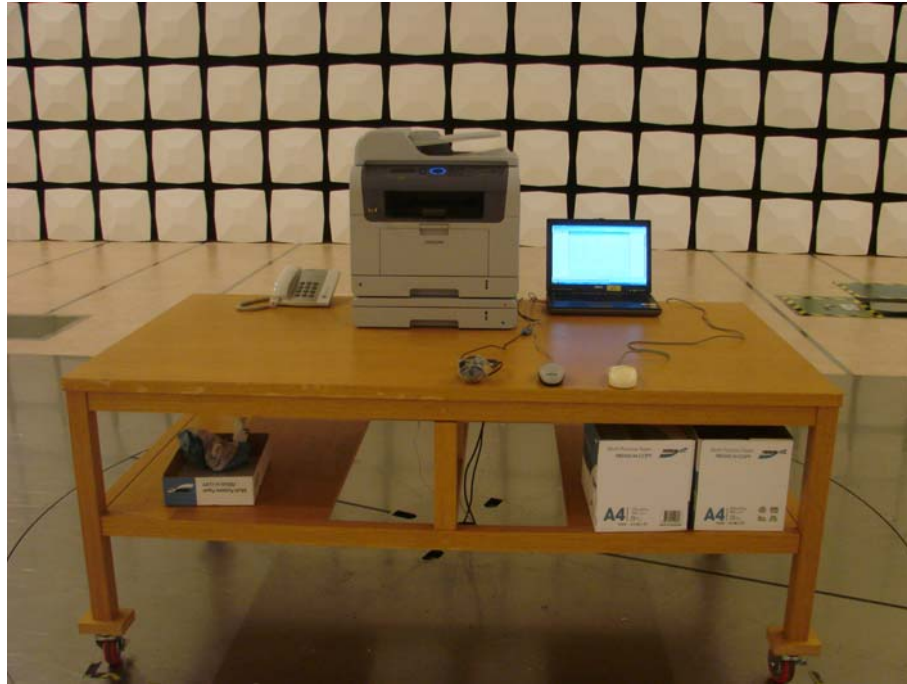
4.2.1 Test instrumentation

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
BILOG ANTENNA	SCHAFFNER	CBL6112D	22604	2007-04-16	24
BILOG ANTENNA	SCHAFFNER	CBL6112D	22601	2007-04-02	24
HORN ANTENNA	SCHWARZBECK	BBHA9120B	336	2007-03-15	24
HORN ANTENNA	SCHWARZBECK	BBHA9120C	352	2007-03-15	24
EMI TEST RECEIVER	R&S	ESIB-26	100289	2008-08-18	12
EMI TEST RECEIVER	R&S	ESIB-26	100287	2008-08-26	12
AMPLIFIER	SONOMA	310N	185861	2007-12-04	12
AMPLIFIER	SONOMA	310N	251676	2008-03-13	12
Amplifier	TOYO	TPA0108-40	0433	N/A	N/A
RF Selector	TOYO	NS4900	-	N/A	N/A
Ant. Mast	inn-co	MA4000	-	N/A	N/A
Ant. Mast	inn-co	MA4000	-	N/A	N/A
Ant. Mast	inn-co	MA2000	-	N/A	N/A
Mast Controller	inn-co	CO2000	CO2000/189/9 271204/L	N/A	N/A
Test Software	TOYO	EP5/RE	Ver 3.1.20	N/A	N/A

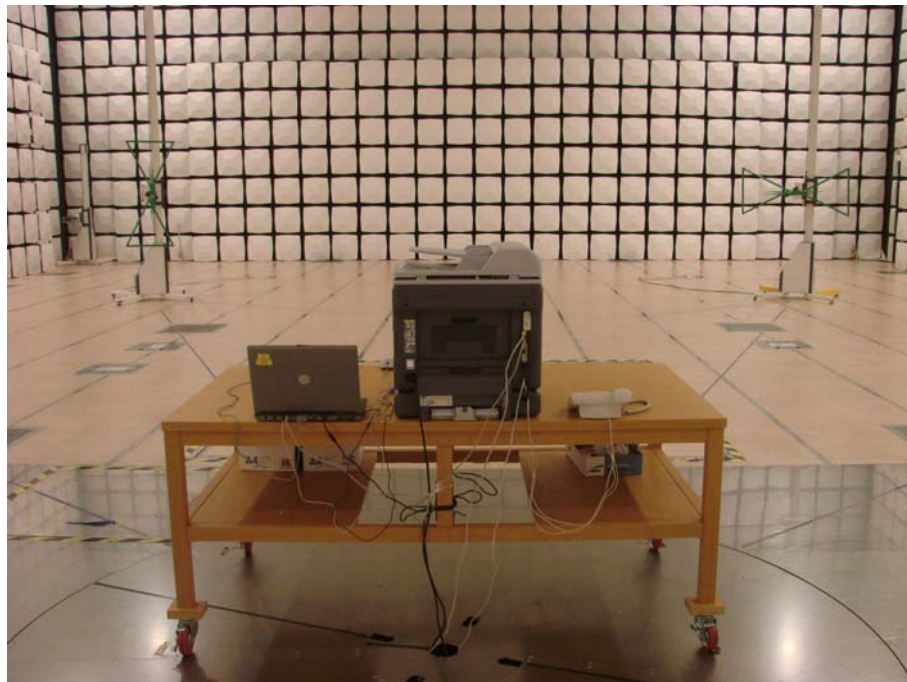
4.2.2 Temperature and humidity condition

Test date	September 12, 2008	Test engineer		Kyeong Dong Kim	
Climate condition	Ambient temperature	23.8 ℃	Relative humidity	45%	
	Atmospheric pressure	101.1 kPa			
Test place	Semi-Anechoic Chamber				

4.2.3 Photograph of Test setup (30 MHz ~ 1 GHz)



Front

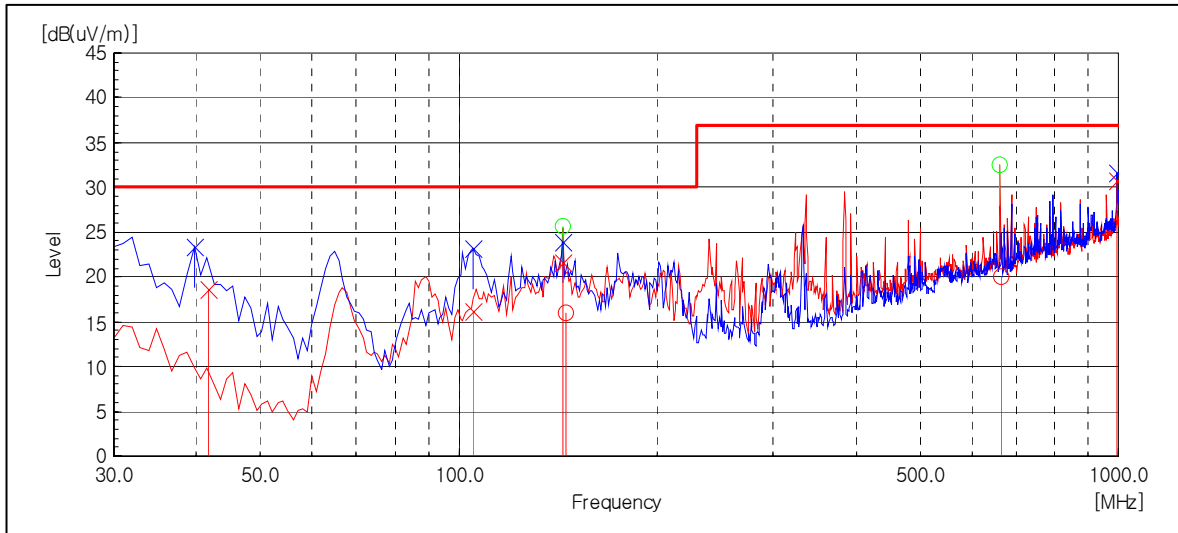


Rear

4.2.4 Test results (30 MHz ~ 1 GHz)

- Operating Mode 1 : Duplex copy printing

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]
41.62	V	37.6	-19.0	18.6	30	11.4	108	329
104.96	V	34.4	-18.2	16.2	30	13.8	249	154
143.83	V	39.9	-18.3	21.6	30	8.4	102	109
145.41	H	33.6	-17.6	16.0	30	14.0	322	290
663.57	H	26.2	-6.2	20.0	37	17.0	313	207
995.03	V	31.4	-0.6	30.8	37	6.2	152	256

Note) Receiving antenna polarization : Horizontal and/or Vertical

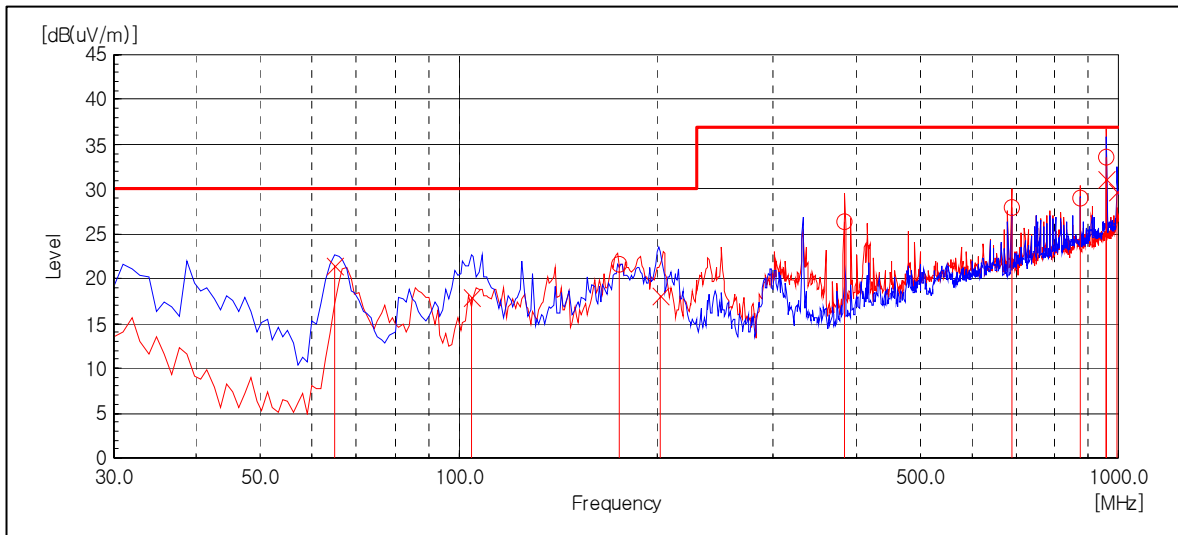
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode 2 : Duplex USB printing

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]
64.79	V	46.2	-24.7	21.5	30	8.5	208	330.3
104.36	V	36.1	-18.2	17.9	30	12.1	231	11.2
174.88	H	40.5	-18.9	21.6	30	8.4	391	106
201.69	V	38.4	-20.2	18.2	30	11.8	154	70.8
384.47	H	37.6	-11.2	26.4	37	10.6	224	11.2
688.12	H	34.1	-6.1	28.0	37	9.0	379	350.5
874.82	H	32.0	-3.0	29.0	37	8.0	250	176.7
960.00	H	35.0	-1.5	33.5	37	3.5	341	317.9
960.03	V	32.5	-1.4	31.1	37	5.9	162	198.9
995.13	V	30.3	-0.6	29.7	37	7.3	153	260.2

Note) Receiving antenna polarization : Horizontal and/or Vertical

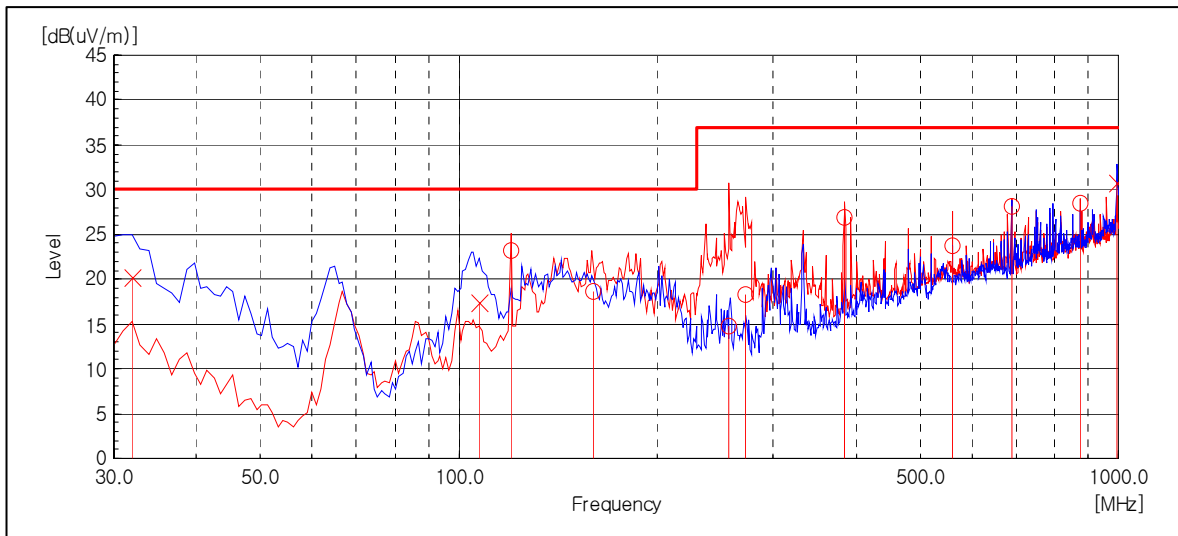
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode 3 : 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]
31.93	V	34.3	-14.0	20.3	30	9.7	250	360
107.50	V	35.3	-18.0	17.3	30	12.7	108	110
120.01	H	40.2	-17.0	23.2	30	6.8	303	271
159.99	H	37.1	-18.5	18.6	30	11.4	400	83
257.30	H	29.0	-14.2	14.8	37	22.2	262	34
272.45	H	33.0	-14.8	18.2	37	18.8	189	40
384.32	H	38.1	-11.2	26.9	37	10.1	225	10
559.92	H	30.5	-6.7	23.8	37	13.2	125	74
688.14	H	34.2	-6.1	28.1	37	8.9	156	223
874.82	H	31.4	-3.0	28.4	37	8.6	150	109.9

Note) Receiving antenna polarization : Horizontal and/or Vertical

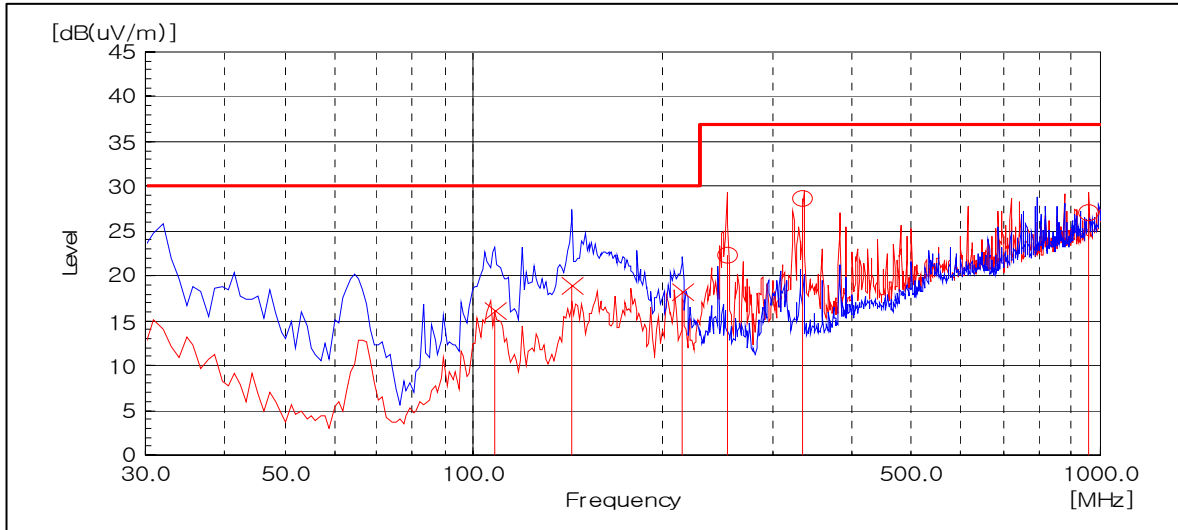
Test Distance : 10m, Antenna Height : 1 to 4 meters

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

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

- Operating Mode 4 : FAX Tx

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]
107.96	V	34.1	-17.9	16.2	30	13.8	177	6.6
143.98	V	37.2	-18.3	18.9	30	11.1	100	30.2
215.46	V	37.8	-19.6	18.2	30	11.8	136	305
254.86	H	36.9	-14.5	22.4	37	14.6	166	356.7
335.86	H	41.1	-12.5	28.6	37	8.4	213	15.9
960.88	H	28.5	-1.5	27.0	37	10.0	387	310

Note) Receiving antenna polarization : Horizontal and/or Vertical

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

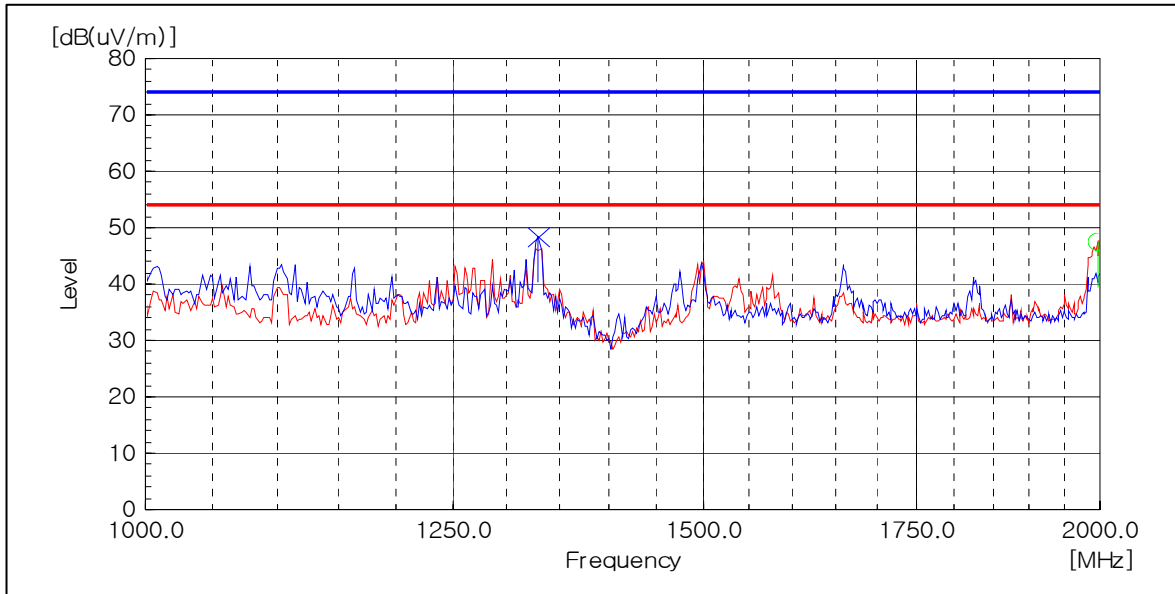
Level QP(Quasi-Peak) = Reading QP + Factor(Antenna Factor + Cable Loss - Amp. Gain)

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

4.2.5 Test results (1 GHz ~ 2 GHz)

- Operating Mode 2 : Duplex USB printing

Test Graph and Results



Frequency [MHz]	(P)	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level PK [dB(uV/m)]	Limit [dB(uV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]
1330.66	V	59.4	-11.1	48.3	74	25.7	100	282
1995.99	H	55.2	-7.8	47.4	74	26.6	100	257

Note1) Representative operating mode having minimum margin below 1GHz were selected for radiated emission measurement above 1GHz, and any emissions that do NOT exceed Average limit were not tested with average detector mode.

Note2) Receiving antenna polarization : Horizontal and Vertical

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

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

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

Appendix – EUT photography



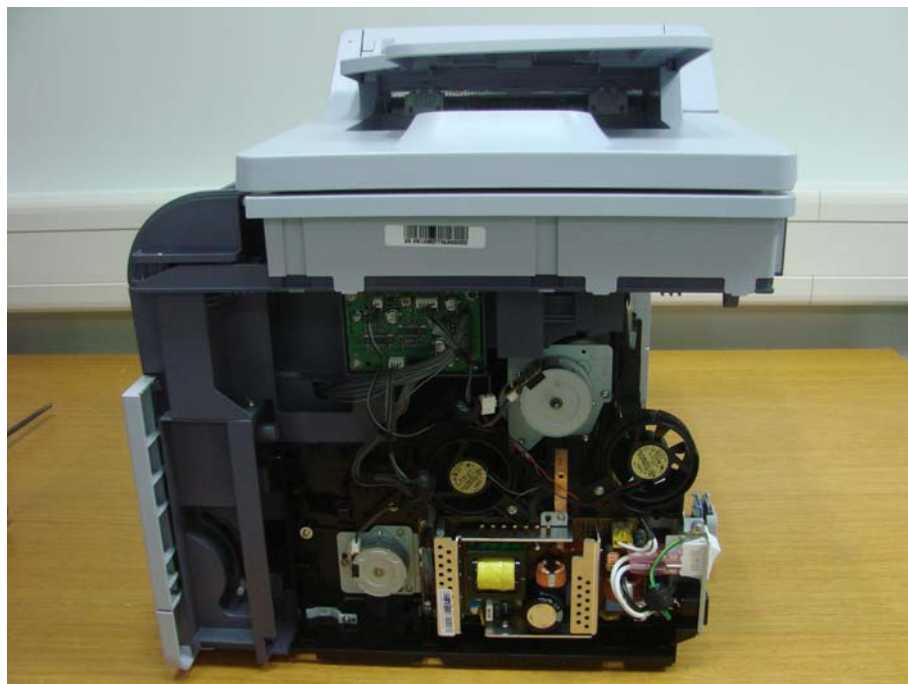
Front View



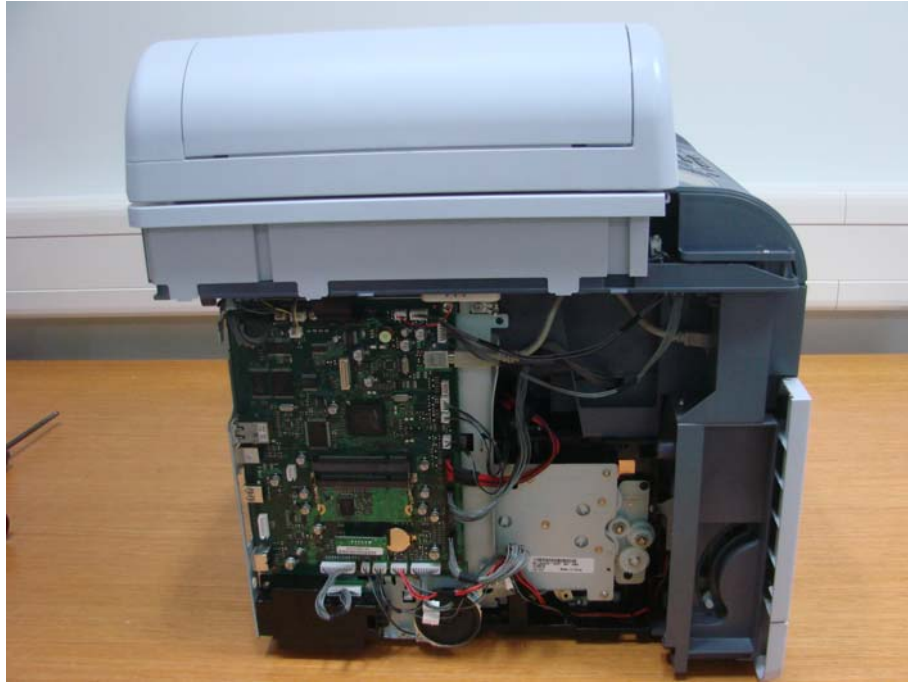
Rear View



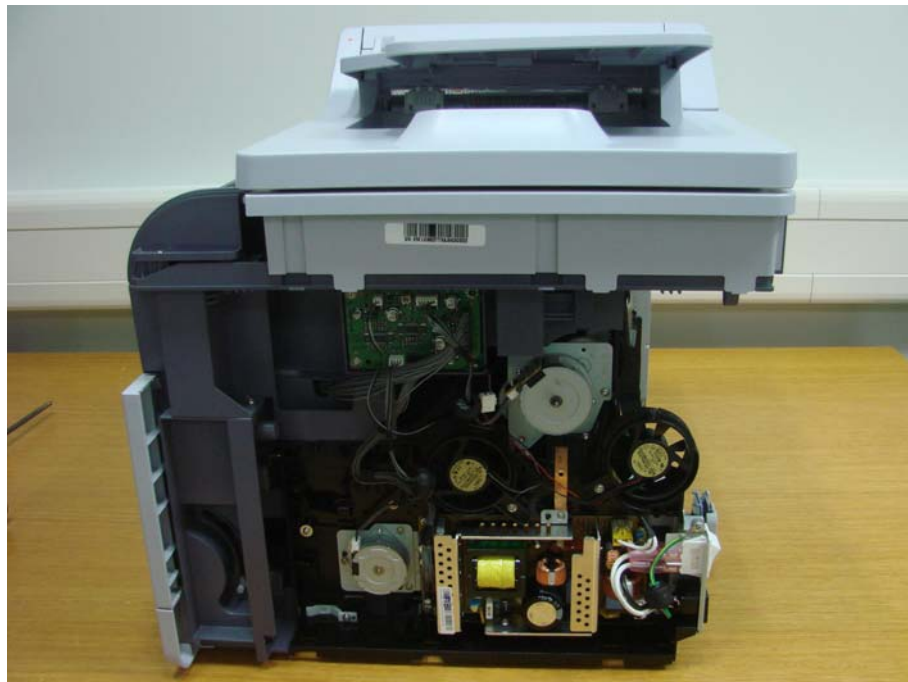
Internal View-1



Internal View-2



Internal View-3



Internal View-4



Label Location



USOC Jack Type:RJ11C
Samsung Electronics Co., Ltd.
Suwon, Korea, 443-742
Place:M264

Model: SCX-5635FN
Volts: AC 110-127V
Hertz: 50/60Hz
Amps: 7A
Ringer Equivalence:
Manufactured:



51Y7
E149091
I.T.E.

FCC ID : A3LSCX5635FN (Printer)
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:A3LFA03ASCX5635FN
This product complies with 21 CFR Chapter 1, subchapter J.
This Class B digital apparatus complies with
Canadian ICES-003
Cet appareil numérique de la class B respecte toutes les
exigences du Règlement sur le matériel brouilleur du Canada.
IC: 649E-SCX5635FN
Contains Mercury, Dispose According to Local,
State or Federal Laws.

Serial No.:

Fabrique au Chine
MADE IN CHINA REV.00



USOC Jack Type:RJ11C
Samsung Electronics Co., Ltd.
Suwon, Korea, 443-742
Place:M259

Model: SCX-5635FN
Volts: AC 110-127V
Hertz: 50/60Hz
Amps: 7A
Ringer Equivalence:
Manufactured:



51Y7
E149091
I.T.E.

FCC ID : A3LSCX5635FN (Printer)
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: A3LFA03ASCX5635FN
This product complies with 21 CFR Chapter 1, subchapter J.
This Class B digital apparatus complies with
Canadian ICES-003
Cet appareil numérique de la class B respecte toutes les
exigences du Règlement sur le matériel brouilleur du Canada.
IC: 649E-SCX5635FN
Contains Mercury, Dispose According to Local,
State or Federal Laws.

Serial No.:

Fabrique au Korea
MADE IN KOREA REV.00

Rating Label