



TEST REPORT

47 CFR FCC Part 15 Subpart B (Class B)

Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement

ANSI C63.4: 2009

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Report Reference No.: TRE13010007 R/C:83032

FCC ID: BBP-MFSP204SFN1

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Wenliang Li

Date of issue: Jan 22, 2013

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Testing location/ procedure: Full application of Harmonised standards
 Partial application of Harmonised standards
 Other standard testing methods

Applicant's name: Ricoh Company Ltd

Address: 810, Shimoimaizum, Ebina-Shi, Kanagawa-ken, 243-0460 Japan

Test specification:

Standard: 47 CFR FCC Part 15 Subpart B (Class B) ANSI C63.4: 2009

Non-standard test method.....: /

Test Report Form No.....: HTWEMCFCC_1A

TRF Originator.....: Shenzhen Huatongwei International Inspection Co., Ltd

Master TRF.....: Dated 2006-06

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Test item description: Printer

Trade Mark: /

Model/Type reference.....: SP 204SFN/SP 200S/SP 203S/SP 202SN/SP 204SN
 /SP 203SF/SP 204SF/SP 203SFN

Listed Model.....: /

Ratings: 120V 60Hz 8A 900W

Result.....: Positive

EMC -- TEST REPORT

Test Report No. : TRE13010007	Jan 22, 2013 <hr style="border: 0; border-top: 1px solid black; margin: 0;"/> Date of issue
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Equipment under Test : Printer

Model / Type : SP 204SFN/SP 200S/SP 203S/SP 202SN/SP 204SN
/SP 203SF/SP 204SF/SP 203SFN

Listed Model : /

Applicant : Ricoh Company Ltd

Address : 810, Shimoimaizum, Ebina-Shi, Kanagawa-ken, 243-0460
Japan

Manufacturer : Ricoh Asia Industry (Shenzhen) Ltd.

Address : Color TV Industrial Zone, North Huang Gang Road
Shenzhen, P. R. China

Test Result according to the standards on page 4:	Positive
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B \(Class B\)](#) Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement.

[ANSI C63.4: 2009](#) American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2. SUMMARY

2.1. General Remarks:

Date of receipt of test sample : Jan 10, 2013

Testing commenced on : Jan 10, 2013

Testing concluded on : Jan 22, 2013

2.2. Equipment under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 115V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

AC 120V/60Hz

2.3. Short description of the Equipment under Test (EUT)

The EUT is a laser Printer. There are eight models. All of models are the same PCB layout.

Model SP 203SF / SP 204SF / SP 204SFN / SP 203SFN have Copy/Scan/FAX/Print functions, but SP 200S / SP 203S / SP 202SN / SP 204SN have not fax board for FAX function.

Models SP 200S / SP 203S weren't contained ADF module. The other models have ADF module.

Models SP 200S / SP 203S / SP 203SF / SP 204SF weren't contained NIC&Scan2USB function, the other models have this function.

Please refer to the table about detail differences.

Mode name	ADF	NIC	Scan to USB	FAX	Sales country
SP 200S	×	×	×	×	SA
SP 203S	×	×	×	×	NA
SP 202SN	○	○	○	×	SA
SP 204SN	○	○	○	×	NA
SP 203SF	○	×	×	○	SA
SP 204SF	○	×	×	○	NA
SP 203SFN	○	○	○	○	SA
SP 204SFN	○	○	○	○	NA

Attention:

ADF:The machine was contained Auto Document Feed module.

NIC:The machine have Lan Print and Lan Scan function.

Scan to USB:The machine was contained Scan to USB memory module.

FAX:The machine have fax function and fax board.

SA:South American

NA:Nouth American

2.4. EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

Test program (customer specific)

Emissions tests.....: 47 CFR FCC Part 15 Subpart B (Class B) and ANSI C63.4 2009, searching for the highest disturbance.

2.5. EUT configuration

1) Equipment under test

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
(1)EUT	RICOH	SP 204SFN	LM150170005	—

2) Highest Frequency Generated or Used in The Device or on Which the Device Operates (MHz)

Kind of equipment	Mode name	Operates Frequency	Remark
EUT	SP 204SFN	480MHz	USB

3) Supporting equipment

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
Notebook 1	LENOVO	ThinkPad X201i	R8-7DYTX 10/11	For EMI
G3 Exchanger	TENDA	PABX	—	—
FAX Machine	RICOH	SP 204SFN	JM119270019	—
USB Memory	SanDisk	Cruzer Blade 4GB	—	—

4) Cables Used

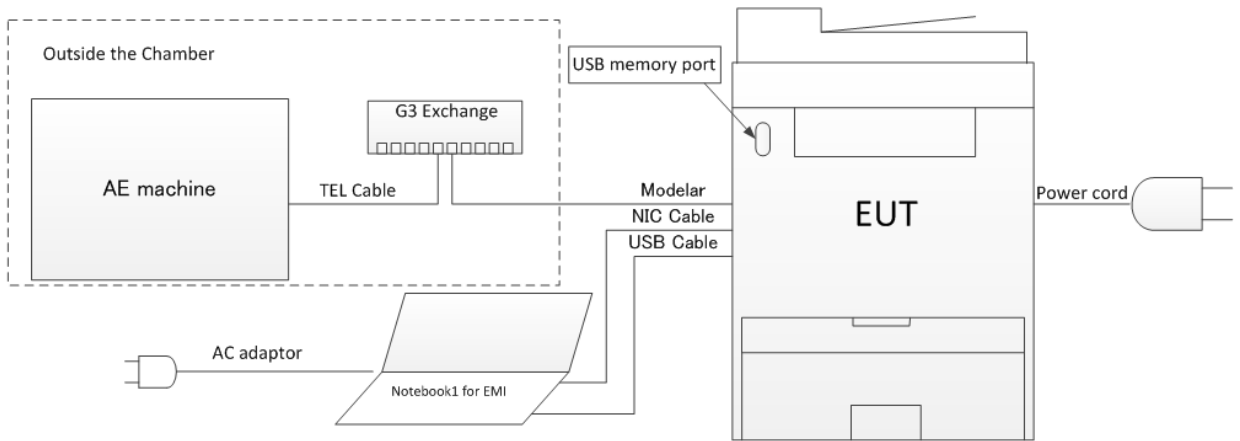
	Cable Name	Length	Shielded	Maker	Remarks
1	USB Cable	2m	YES	LONGWELL	—
2	NIC Cable	3m	No	Black Box	—
3	Power Cable	1.5m	No	LONGWELL	—
4	Modular Cable	2m	No	—	—

5)Operating modes:

No.	Operating modes	Remarks
1	Standby	
2	Copy	
3	USB Print	
4	NIC Print	
5	USB Scan	
6	NIC Scan	
7	Scan to USB memory	
8	FAX Tx	
9	FAX Rx	

6)EUT Setup:

Opal-MF machine system config



3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 01, 2012. Valid time is until Feb. 28, 2015.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept. 30, 2013.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date June. 01, 2012, valid time is until Jun. 01, 2015.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the authorization is valid through July 07, 2013

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2012. Valid time is until Dec. 23, 2015.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

3.4. Test Description

Emission Measurement		
Radiated Emission	47 CFR FCC Part 15 Subpart B Class B ANSI C63.4 2009	PASS
Conducted Disturbance	47 CFR FCC Part 15 Subpart B Class B ANSI C63.4 2009	PASS

Remark: The measurement uncertainty is not included in the test result.

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24dB	(1)
Radiated Emission	1G~2G	5.16dB	(1)
Conducted Disturbance	0.15~30 MHz	3.39dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Rohde & Schwarz	HL562	100015	2012/10/27
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2012/10/27
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2012/10/27
4	TURNTABLE	ETS	2088	2149	2012/10/27
5	ANTENNA MAST	ETS	2075	2346	2012/10/27
6	EMI TEST SOFTWARE	Rohde & Schwarz	ESK1	N/A	2012/10/27
7	Double-Ridged-Waveguide Horn Antenna	Rohde & Schwarz	HF906	100039	2012/10/27
8	Semi-anechoic chamber	ETS-LINDGREN	AJ 593 HTW	N/A	2012/10/27

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde & Schwarz	ESCS30	100038	2012/10/27
2	Artificial Mains	Rohde & Schwarz	ESH2-Z5	100028	2012/10/27
3	Artificial Mains	Rohde & Schwarz	ESH3-Z5	100040	2012/10/27
4	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100044	2012/10/27
5	EMI Test Software	Rohde & Schwarz	ESK1	N/A	2012/10/27
6	3# shielded room	ETS-LINDGREN	RFD-100	2406	N/A

The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Shielded room No. 4

4.1.2. Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)	
30 ~ 88	3	40	
88~216	3	43.5	
216 ~ 960	3	46	
960-1000	3	54	
1000-2000	3	74(PK)	54(AV)

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

(3)The highest frequency of the internal sources of the EUT is 480MHz, so the measurement was made up to 2 GHz.

4.1.3. Description of the test set-up

4.1.3.1. Operating Condition

The EUT is set to work that shall be carried out respectively Standby, Copy, USB Print, NIC Print, USB Scan, NIC Scan, Scan to USB memory, FAX Tx, FAX Rx modes during the test and the results of the maximum emanation are recorded.

4.1.3.2. Test Configuration and Procedure

Test is carried out in Semi-Anechoic Chamber. EUT is placed on a nonmetal table which is 0.8 meter above a grounded turntable. EUT is set 3 meters away from the center of receiving antenna. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level and then the antenna can move up and down from 1 to 4 meter to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on the test.

4.1.3.3. Photos of the test set-up



4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120 KHz

Frequency Range: 30MHz to 1000MHz

Band Width: 1MHz

Frequency Range: 1G-2G

The average measurement was not performed when the peak measured data under the limit of average detection.

Remarks: The limits are kept. For detailed results, please see the following page(s).

Margin=limit-level

Level=read value+transducer

Transducer=antenna factor+pre-amplifier factor+cable loss (with 6db attenuator)

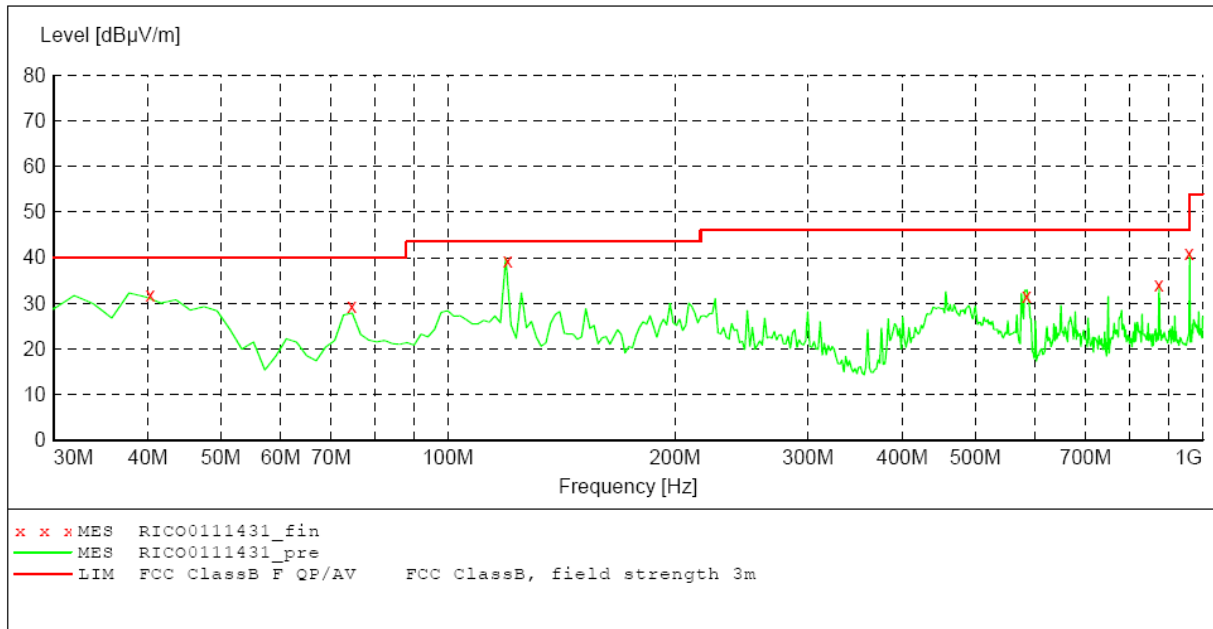
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 4:39:47PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111431_fin"

1/11/2013 4:47PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
40.320000	31.90	-16.7	40.0	8.1	QP	100.0	92.00	VERTICAL
74.580000	29.40	-22.5	40.0	10.6	QP	140.0	241.00	VERTICAL
120.000000	39.40	-19.2	43.5	4.1	QP	99.0	184.00	VERTICAL
584.820000	31.50	-13.7	46.0	14.5	QP	100.0	169.00	VERTICAL
874.980000	34.10	-7.0	46.0	11.9	QP	100.0	128.00	VERTICAL
960.000000	40.90	-7.0	46.0	5.1	QP	99.0	323.00	VERTICAL

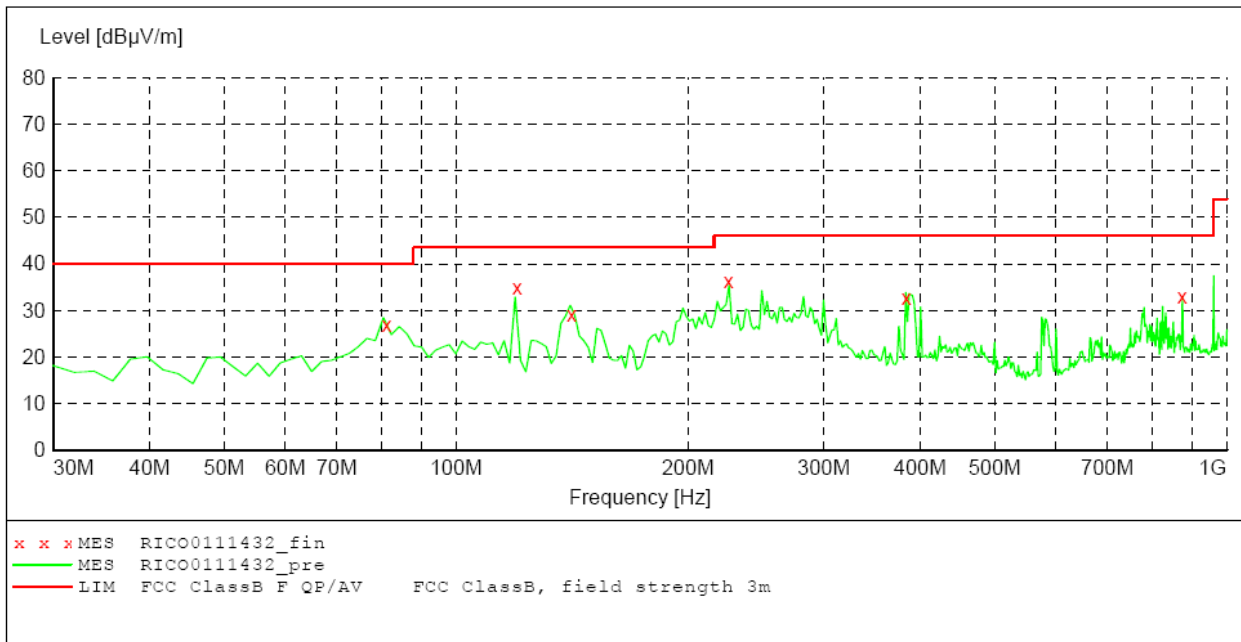
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 4:48:24PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111432_fin"

1/11/2013 4:57PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
81.240000	26.80	-22.0	40.0	13.2	QP	350.0	183.00	HORIZONTAL
120.000000	34.80	-19.2	43.5	8.7	QP	250.0	218.00	HORIZONTAL
141.180000	29.10	-21.7	43.5	14.4	QP	250.0	0.00	HORIZONTAL
225.780000	36.30	-20.2	46.0	9.7	QP	150.0	64.00	HORIZONTAL
383.880000	32.70	-16.5	46.0	13.3	QP	100.0	322.00	HORIZONTAL
874.980000	33.10	-7.0	46.0	12.9	QP	100.0	134.00	HORIZONTAL

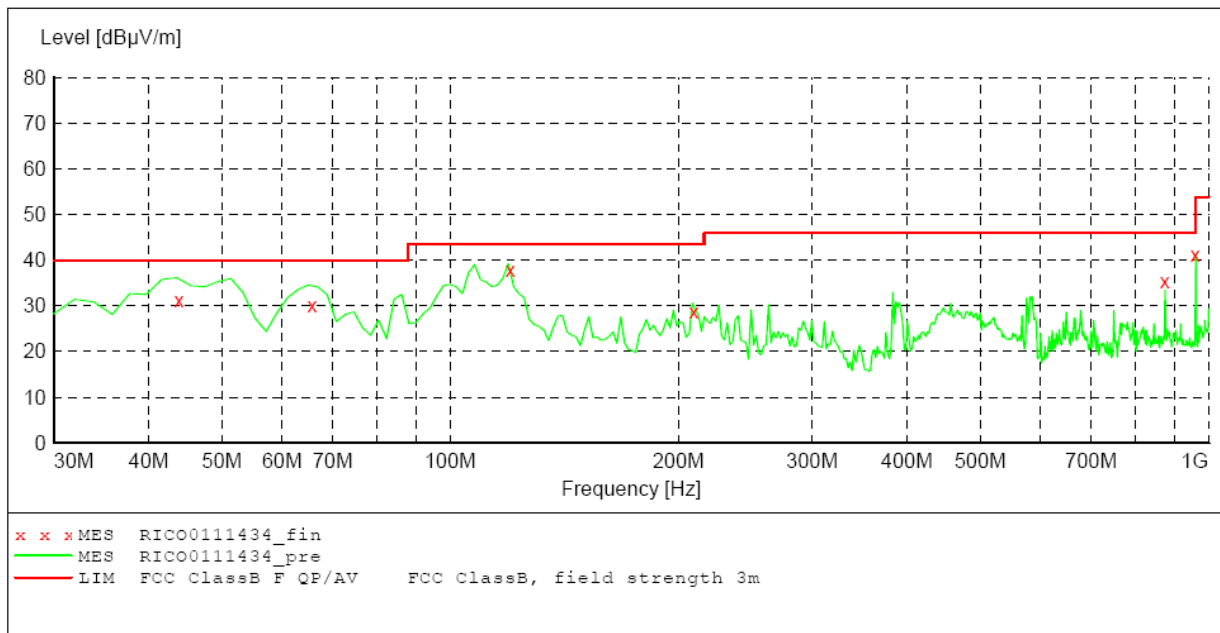
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 5:02:25PM

SCAN TABLE: "test Field(30M-1G)OP"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111434_fin"

1/11/2013 6:19PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
43.860000	31.20	-18.5	40.0	8.8	QP	100.0	249.00	VERTICAL
65.700000	29.60	-23.7	40.0	10.4	QP	100.0	267.00	VERTICAL
120.000000	37.90	-19.2	43.5	5.6	QP	150.0	179.00	VERTICAL
209.640000	28.70	-21.0	43.5	14.8	QP	100.0	310.00	VERTICAL
874.980000	35.30	-7.0	46.0	10.7	QP	99.0	76.00	VERTICAL
960.000000	41.30	-7.0	46.0	4.7	QP	100.0	324.00	VERTICAL

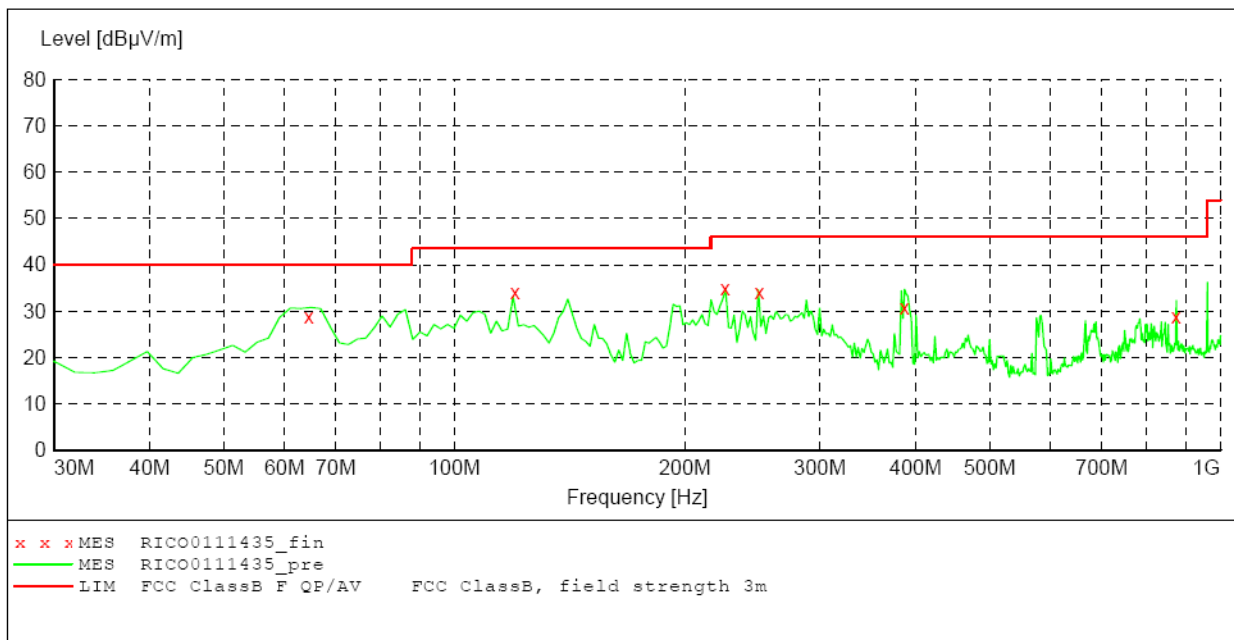
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 5:40:15PM

SCAN TABLE: "test Field(30M-1G)OP"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111435_fin"

1/11/2013 5:47PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
64.560000	27.20	-23.9	40.0	12.8	QP	249.0	196.00	HORIZONTAL
120.000000	34.10	-19.2	43.5	9.4	QP	250.0	202.00	HORIZONTAL
225.780000	34.80	-20.2	46.0	11.2	QP	138.0	75.00	HORIZONTAL
250.020000	34.10	-18.6	46.0	11.9	QP	126.0	194.00	HORIZONTAL
387.120000	30.70	-16.2	46.0	15.3	QP	100.0	320.00	HORIZONTAL
874.980000	28.80	-7.0	46.0	17.2	QP	100.0	146.00	HORIZONTAL

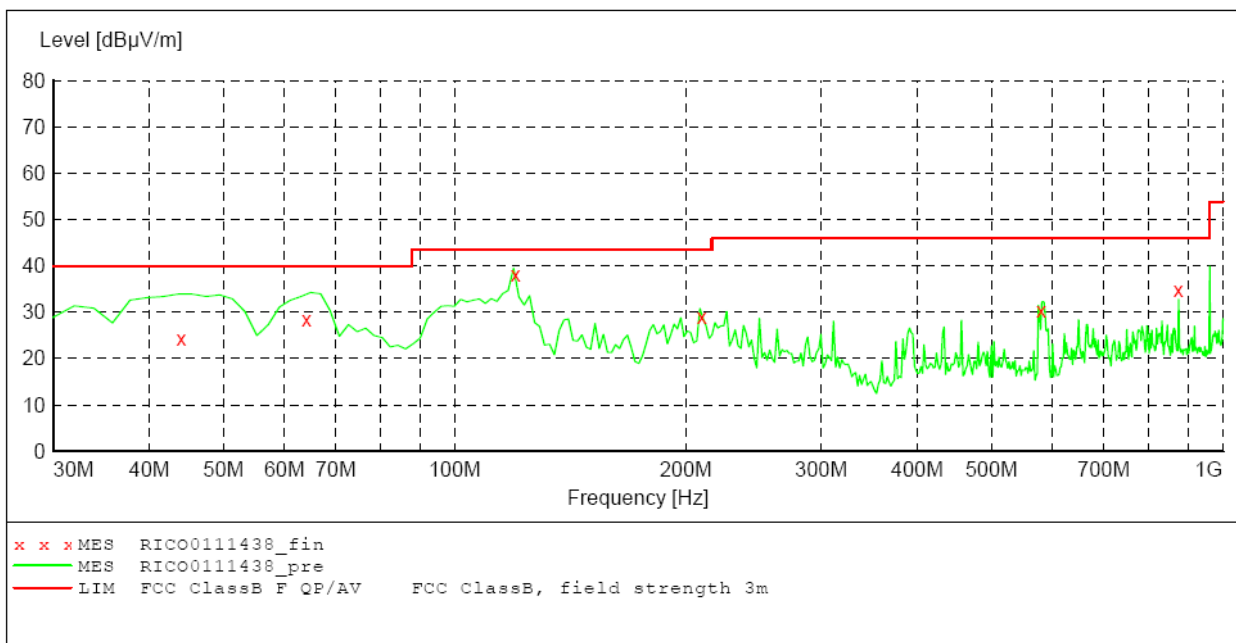
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 6:22:24PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111438_fin"

1/11/2013 7:11PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
44.040000	24.40	-18.6	40.0	15.6	QP	99.0	205.00	VERTICAL
64.140000	28.40	-24.0	40.0	11.6	QP	132.0	281.00	VERTICAL
120.000000	38.10	-19.2	43.5	5.4	QP	100.0	178.00	VERTICAL
209.700000	28.90	-21.0	43.5	14.6	QP	100.0	312.00	VERTICAL
580.380000	30.50	-13.9	46.0	15.5	QP	100.0	166.00	VERTICAL
874.980000	34.70	-7.0	46.0	11.3	QP	100.0	70.00	VERTICAL

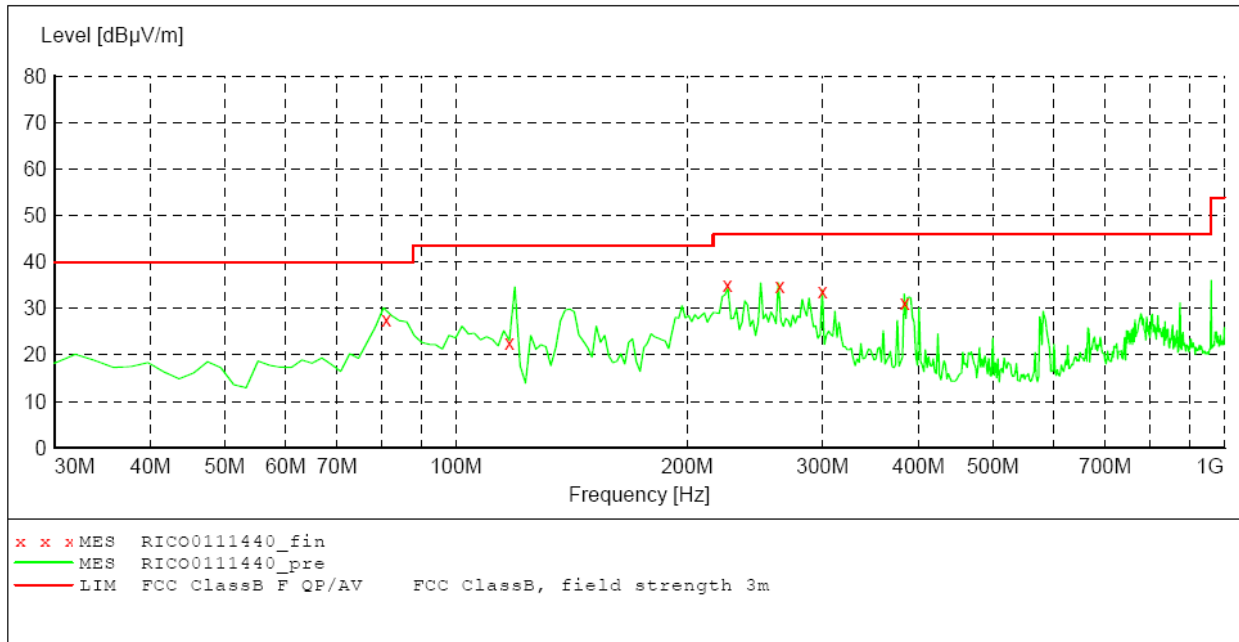
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 7:02:10PM

SCAN TABLE: "test Field(30M-1G)QP"

Start Frequency	Stop Frequency	Step Width	Field Strength(30M-1G) Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111440_fin"

1/11/2013 7:09PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
81.180000	27.10	-22.0	40.0	12.9	QP	349.0	140.00	HORIZONTAL
117.300000	22.80	-19.4	43.5	20.7	QP	301.0	265.00	HORIZONTAL
225.780000	35.20	-20.2	46.0	10.8	QP	150.0	73.00	HORIZONTAL
264.000000	34.80	-18.2	46.0	11.2	QP	99.0	253.00	HORIZONTAL
300.000000	33.60	-17.1	46.0	12.4	QP	100.0	55.00	HORIZONTAL
383.880000	31.30	-16.5	46.0	14.7	QP	100.0	313.00	HORIZONTAL

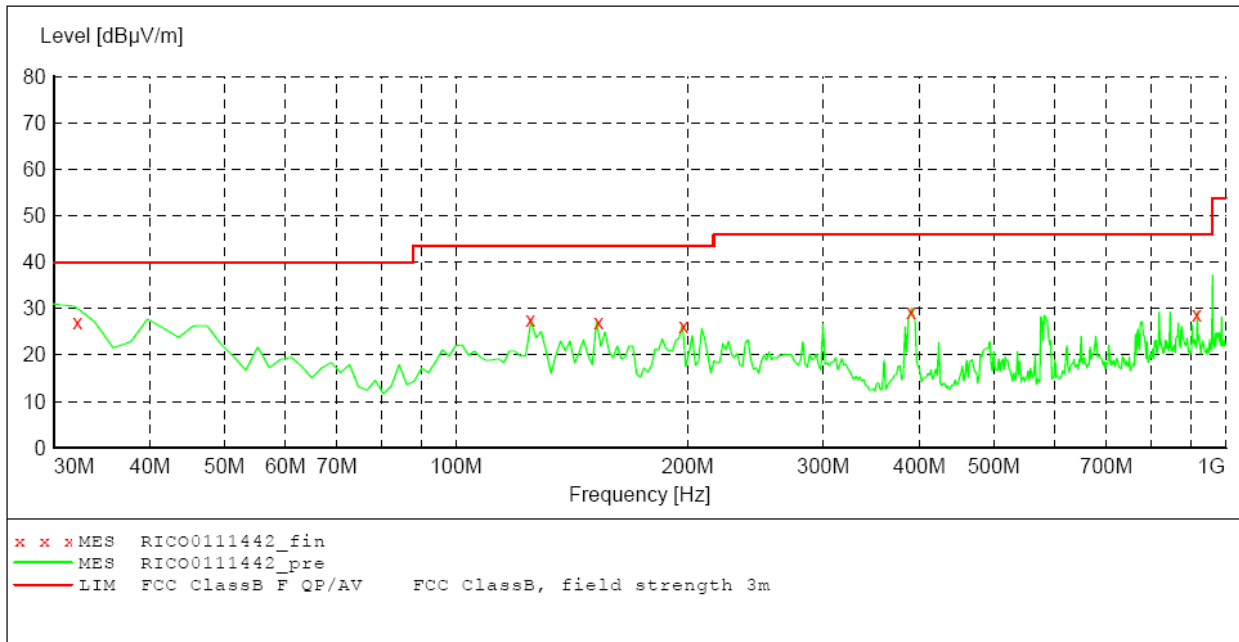
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 7:38:12PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111442_fin"

1/11/2013 7:45PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
32.220000	27.00	-12.3	40.0	13.0	QP	101.0	267.00	VERTICAL
124.980000	27.60	-19.6	43.5	15.9	QP	100.0	349.00	VERTICAL
153.240000	27.10	-22.8	43.5	16.4	QP	100.0	285.00	VERTICAL
197.580000	26.20	-21.6	43.5	17.3	QP	100.0	260.00	VERTICAL
390.180000	29.40	-15.9	46.0	16.6	QP	119.0	86.00	VERTICAL
917.280000	28.70	-7.3	46.0	17.3	QP	100.0	288.00	VERTICAL

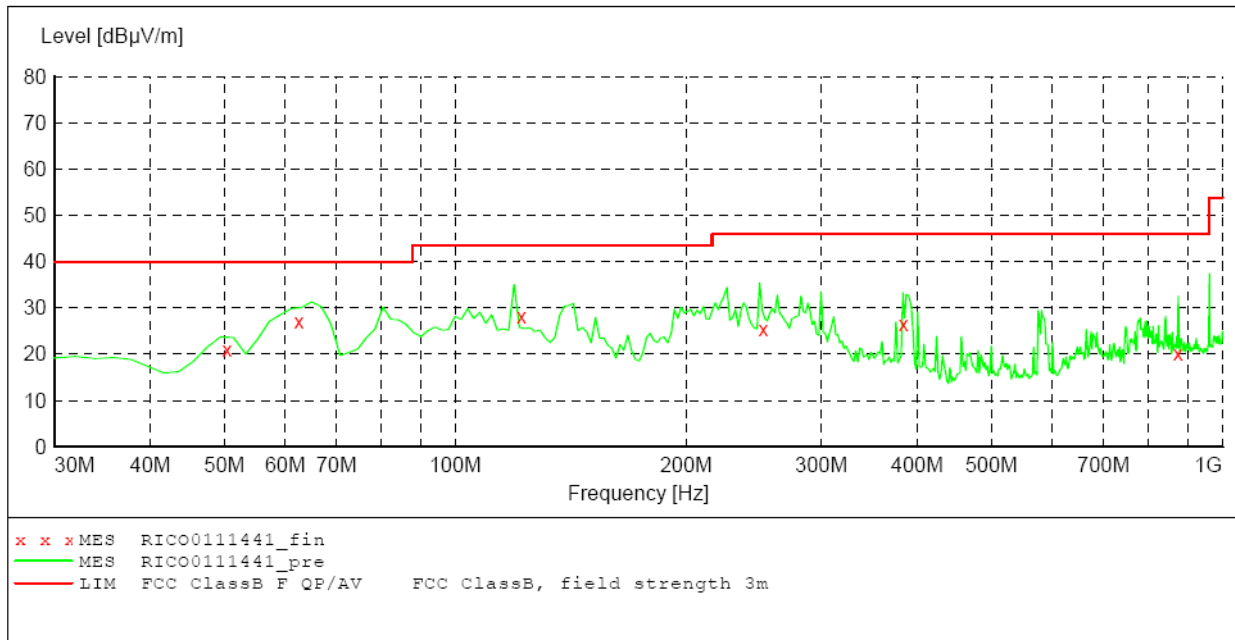
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 7:30:02PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111441_fin"

1/11/2013 7:36PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHZ	dBµV/m	dB	dBµV/m	dB		cm	deg	
50.400000	20.50	-22.4	40.0	19.5	QP	150.0	206.00	HORIZONTAL
62.520000	27.20	-24.5	40.0	12.8	QP	250.0	178.00	HORIZONTAL
122.040000	28.80	-19.4	43.5	14.7	QP	249.0	190.00	HORIZONTAL
252.000000	25.30	-18.5	46.0	20.7	QP	100.0	190.00	HORIZONTAL
383.880000	26.50	-16.5	46.0	19.5	QP	150.0	307.00	HORIZONTAL
874.980000	20.00	-7.0	46.0	26.0	QP	100.0	133.00	HORIZONTAL

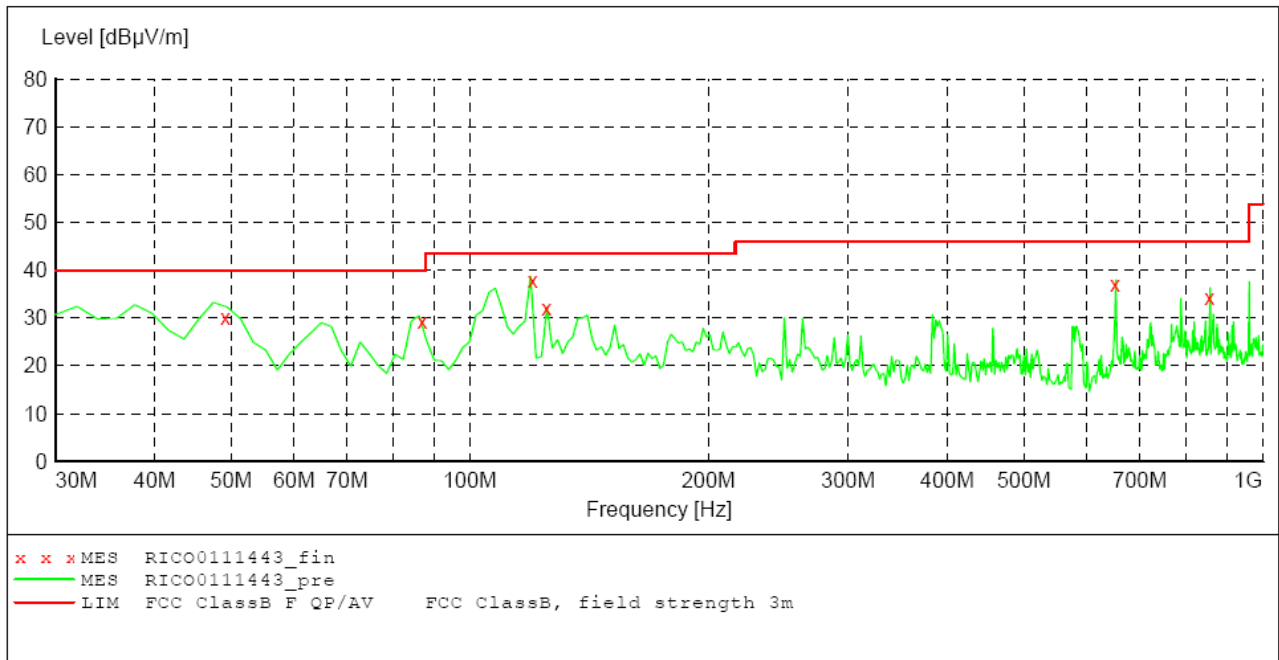
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 7:47:39PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111443_fin"

1/11/2013 8:18PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.140000	30.20	-21.9	40.0	9.8	QP	123.0	262.00	VERTICAL
87.120000	29.40	-20.8	40.0	10.6	QP	100.0	281.00	VERTICAL
120.000000	37.80	-19.2	43.5	5.7	QP	101.0	197.00	VERTICAL
124.980000	32.10	-19.6	43.5	11.4	QP	100.0	309.00	VERTICAL
651.420000	37.00	-10.4	46.0	9.0	QP	100.0	77.00	VERTICAL
857.160000	34.20	-7.5	46.0	11.8	QP	98.0	237.00	VERTICAL

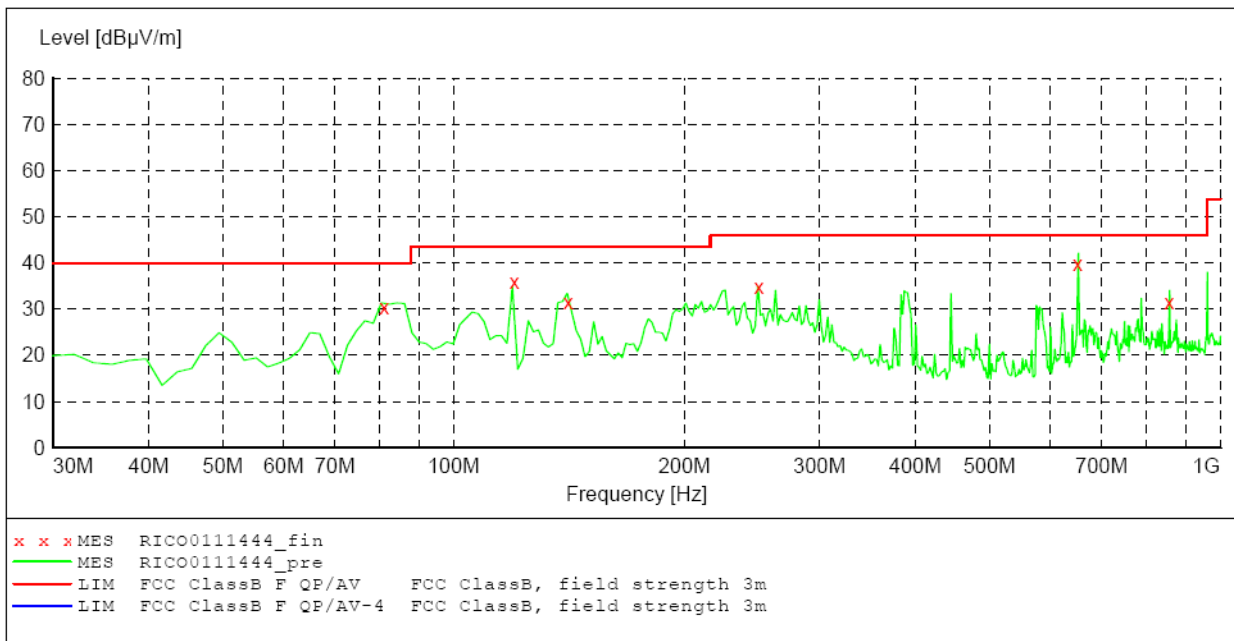
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 7:55:37PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111444_fin"

1/11/2013 8:06PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
81.180000	30.30	-22.0	40.0	9.7	QP	350.0	169.00	HORIZONTAL
120.000000	35.80	-19.2	43.5	7.7	QP	115.0	233.00	HORIZONTAL
141.180000	31.40	-21.7	43.5	12.1	QP	151.0	169.00	HORIZONTAL
250.020000	34.70	-18.6	46.0	11.3	QP	100.0	293.00	HORIZONTAL
651.360000	39.90	-10.4	46.0	6.1	QP	100.0	236.00	HORIZONTAL
857.520000	21.70	-7.5	46.0	24.3	QP	99.0	164.00	HORIZONTAL

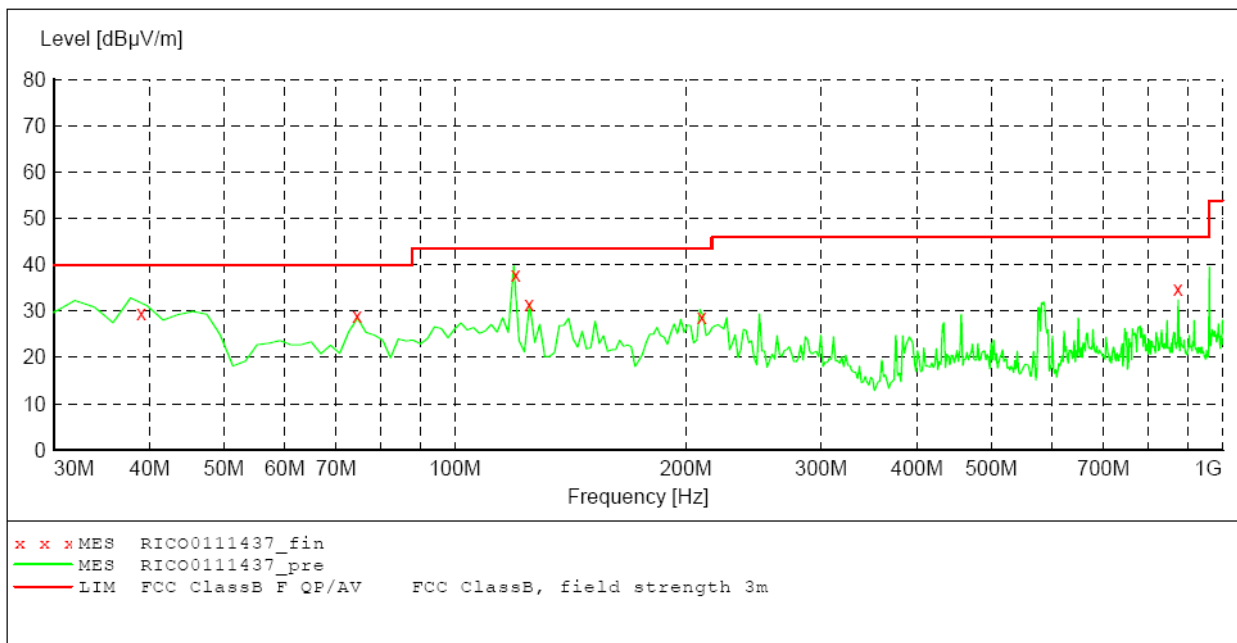
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 6:02:06PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111437_fin"

1/11/2013 6:19PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
39.000000	29.70	-15.9	40.0	10.3	QP	100.0	110.00	VERTICAL
74.580000	29.10	-22.5	40.0	10.9	QP	150.0	248.00	VERTICAL
120.000000	37.80	-19.2	43.5	5.7	QP	99.0	199.00	VERTICAL
124.980000	31.60	-19.6	43.5	11.9	QP	99.0	50.00	VERTICAL
209.700000	28.70	-21.0	43.5	14.8	QP	100.0	321.00	VERTICAL
874.980000	34.80	-7.0	46.0	11.2	QP	100.0	77.00	VERTICAL

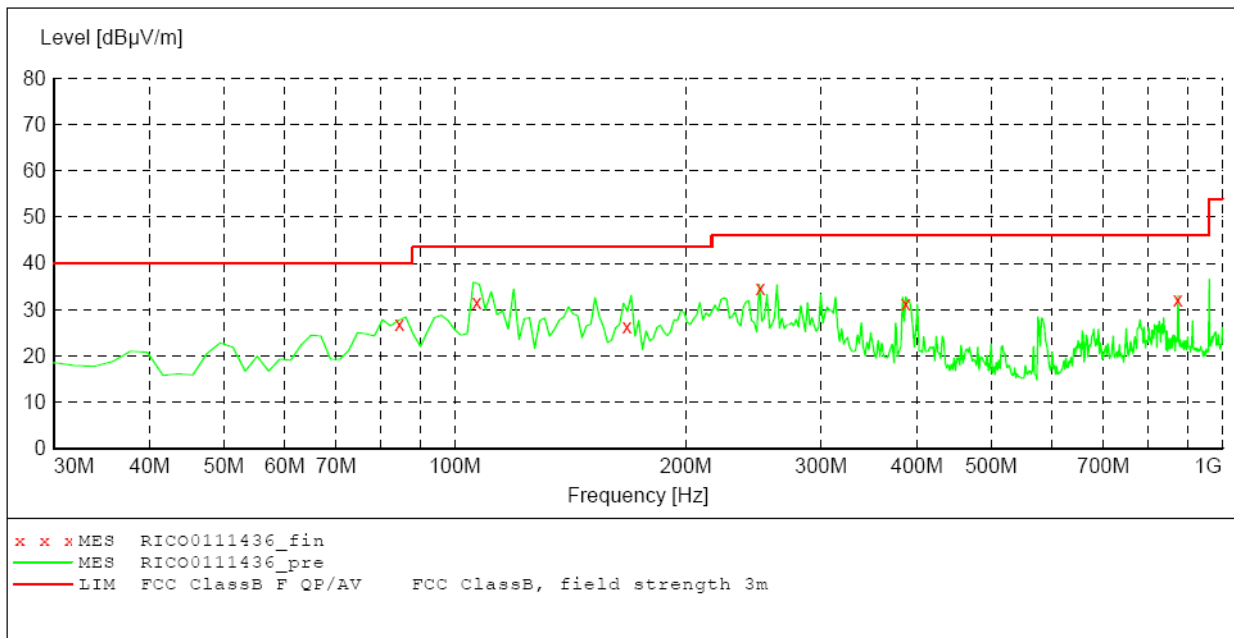
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 5:50:11PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111436_fin"

1/11/2013 6:01PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
84.660000	27.00	-21.2	40.0	13.0	QP	325.0	358.00	HORIZONTAL
106.740000	31.00	-19.6	43.5	12.5	QP	250.0	202.00	HORIZONTAL
167.520000	25.10	-23.4	43.5	18.4	QP	150.0	110.00	HORIZONTAL
250.020000	34.60	-18.6	46.0	11.4	QP	117.0	178.00	HORIZONTAL
387.120000	31.30	-16.2	46.0	14.7	QP	100.0	324.00	HORIZONTAL
874.980000	32.10	-7.0	46.0	13.9	QP	101.0	131.00	HORIZONTAL

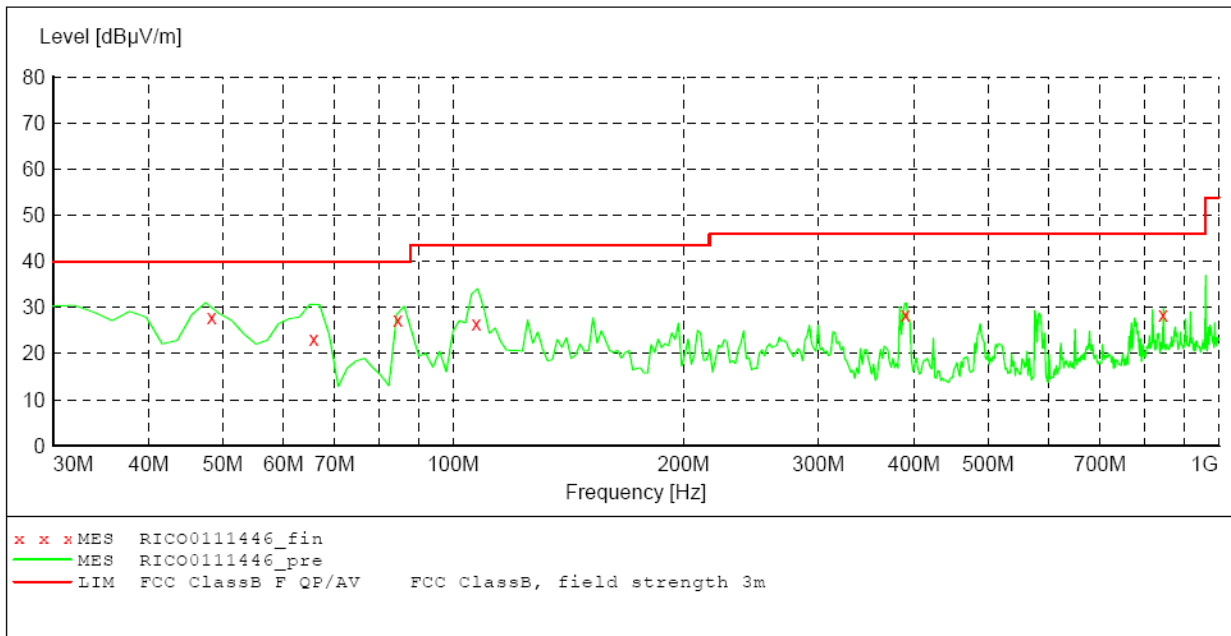
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 8:18:49PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111446_fin"

1/11/2013 8:25PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
48.360000	27.80	-21.4	40.0	12.2	QP	99.0	272.00	VERTICAL
65.760000	23.10	-23.7	40.0	16.9	QP	100.0	299.00	VERTICAL
84.660000	28.40	-21.2	40.0	11.6	QP	151.0	120.00	VERTICAL
107.220000	27.70	-19.6	43.5	15.8	QP	101.0	177.00	VERTICAL
389.880000	28.50	-16.0	46.0	17.5	QP	125.0	87.00	VERTICAL
846.720000	28.50	-7.5	46.0	17.5	QP	100.0	284.00	VERTICAL

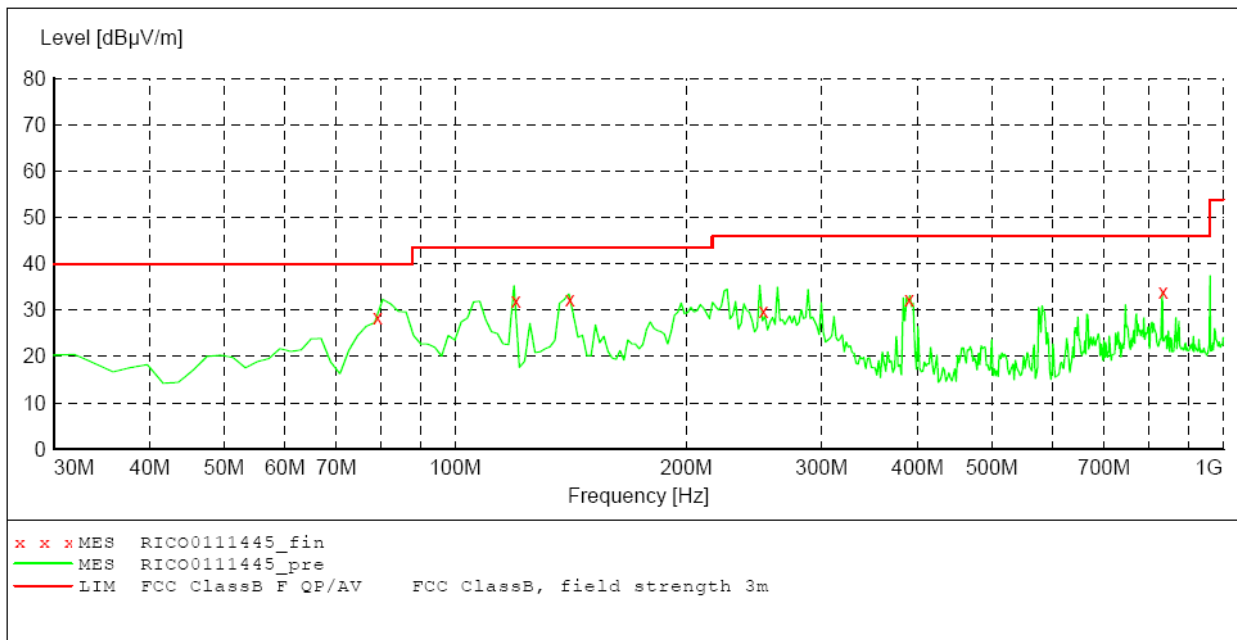
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 8:08:14PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111445_fin"

1/11/2013 8:17PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
79.260000	28.00	-22.3	40.0	12.0	QP	284.0	181.00	HORIZONTAL
120.000000	31.20	-19.2	43.5	12.3	QP	150.0	192.00	HORIZONTAL
141.120000	31.20	-21.7	43.5	12.3	QP	150.0	133.00	HORIZONTAL
252.000000	29.80	-18.5	46.0	16.2	QP	98.0	289.00	HORIZONTAL
390.180000	32.20	-15.9	46.0	13.8	QP	121.0	170.00	HORIZONTAL
835.440000	34.70	-7.7	46.0	11.3	QP	101.0	213.00	HORIZONTAL

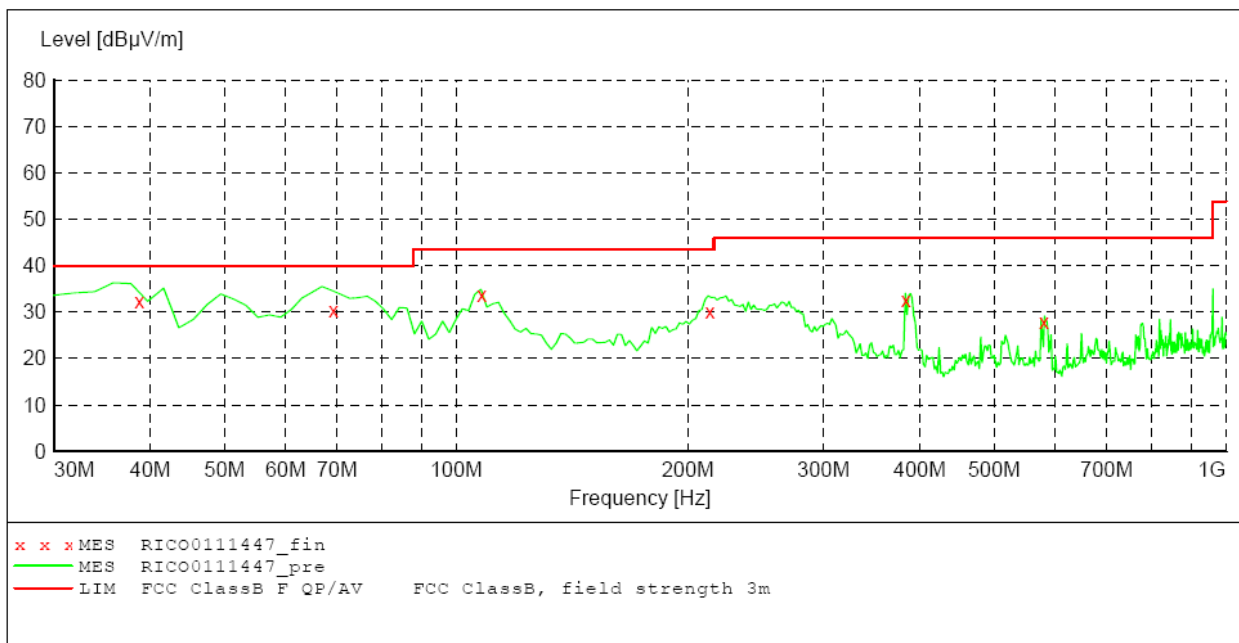
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 8:52:33PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111447_fin"

1/11/2013 8:59PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.760000	32.40	-15.7	40.0	7.6	QP	99.0	192.00	VERTICAL
69.240000	30.50	-23.3	40.0	9.5	QP	115.0	208.00	VERTICAL
108.000000	33.70	-19.5	43.5	9.8	QP	100.0	173.00	VERTICAL
213.600000	30.20	-20.9	43.5	13.3	QP	100.0	114.00	VERTICAL
383.940000	32.60	-16.5	46.0	13.4	QP	101.0	212.00	VERTICAL
580.320000	27.80	-13.9	46.0	18.2	QP	151.0	169.00	VERTICAL

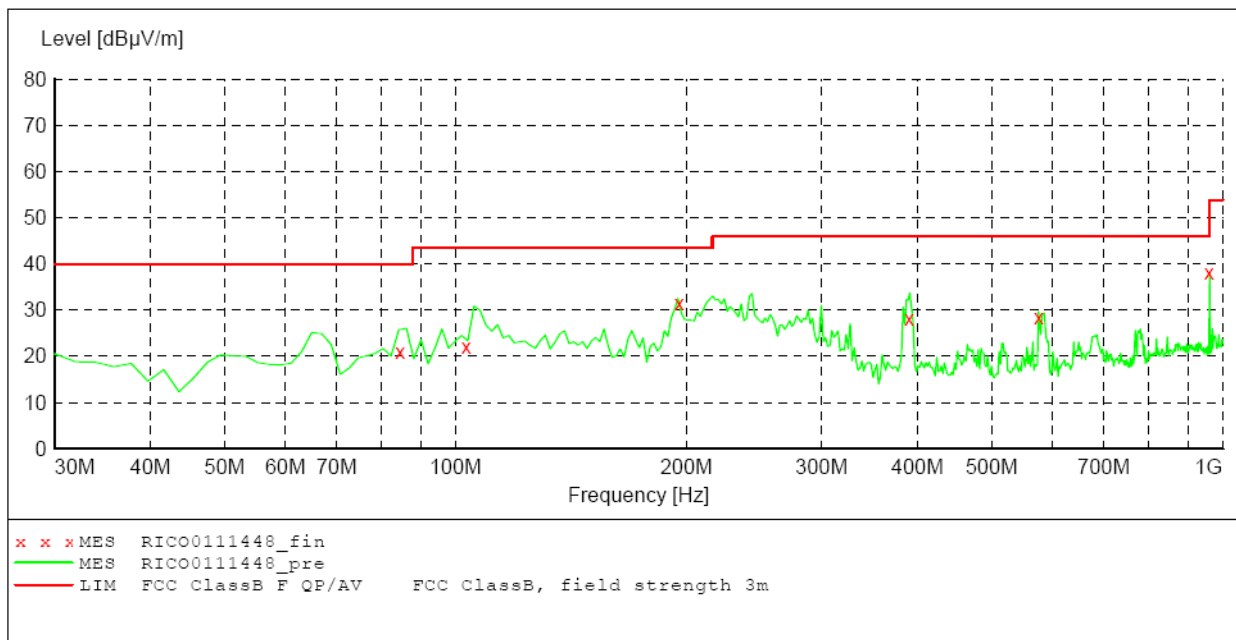
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 9:01:53PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106



MEASUREMENT RESULT: "RICO0111448_fin"

1/11/2013 9:10PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
84.660000	21.10	-21.2	40.0	18.9	QP	310.0	223.00	HORIZONTAL
103.200000	22.00	-19.7	43.5	21.5	QP	351.0	321.00	HORIZONTAL
195.720000	31.40	-21.8	43.5	12.1	QP	114.0	152.00	HORIZONTAL
390.120000	28.20	-15.9	46.0	17.8	QP	350.0	265.00	HORIZONTAL
575.760000	28.40	-13.9	46.0	17.6	QP	100.0	102.00	HORIZONTAL
960.000000	38.20	-7.0	46.0	7.8	QP	100.0	203.00	HORIZONTAL

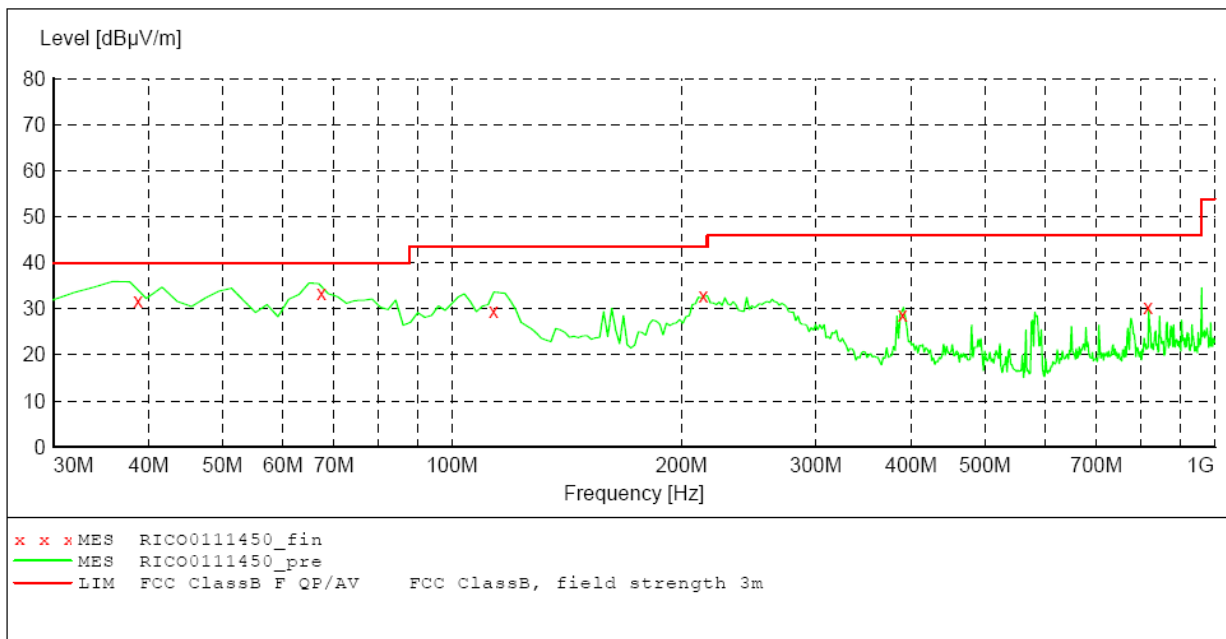
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 9:23:25PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106



MEASUREMENT RESULT: "RICO0111450_fin"

1/11/2013 9:31PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.760000	31.70	-15.7	40.0	8.3	QP	131.0	249.00	VERTICAL
67.440000	33.40	-23.5	40.0	6.6	QP	100.0	250.00	VERTICAL
113.340000	29.70	-19.5	43.5	13.8	QP	126.0	292.00	VERTICAL
213.600000	32.90	-20.9	43.5	10.6	QP	100.0	120.00	VERTICAL
390.180000	28.80	-15.9	46.0	17.2	QP	100.0	74.00	VERTICAL
818.520000	30.50	-7.7	46.0	15.5	QP	100.0	276.00	VERTICAL

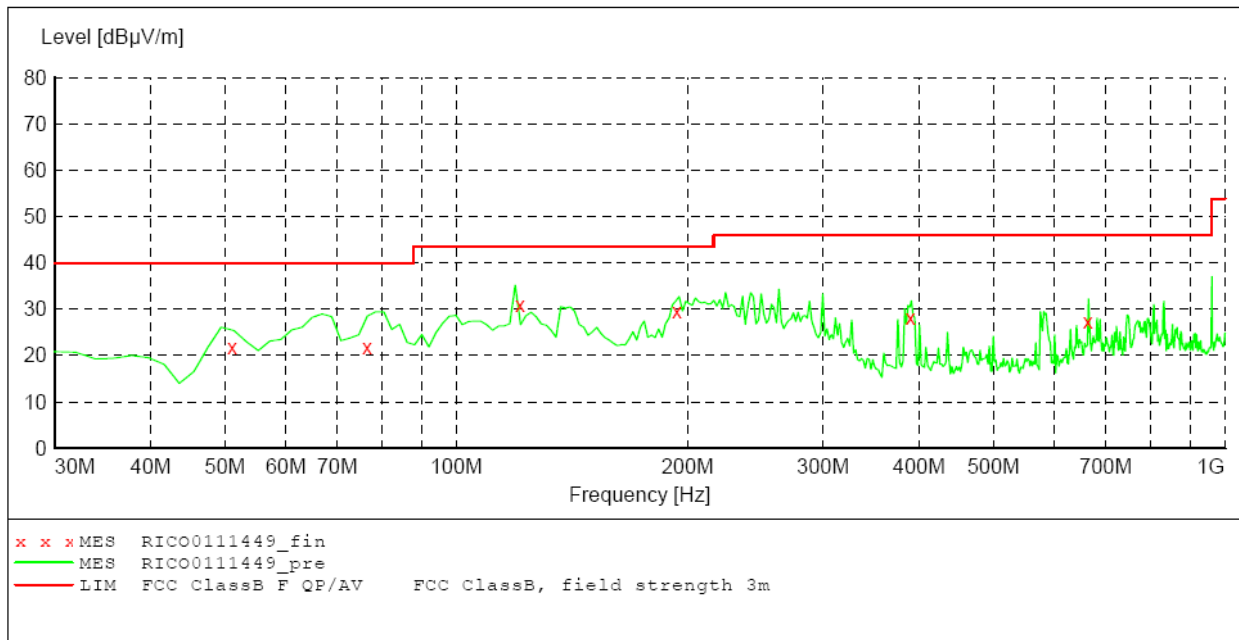
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/11/2013 / 9:12:35PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)					
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer	
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106	



MEASUREMENT RESULT: "RICO0111449_fin"

1/11/2013 9:21PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.060000	21.80	-22.6	40.0	18.2	QP	318.0	218.00	HORIZONTAL
76.500000	20.30	-22.4	40.0	19.7	QP	285.0	196.00	HORIZONTAL
121.080000	30.90	-19.3	43.5	12.6	QP	100.0	195.00	HORIZONTAL
193.740000	29.50	-22.0	43.5	14.5	QP	100.0	157.00	HORIZONTAL
389.880000	28.30	-16.0	46.0	17.7	QP	276.0	293.00	HORIZONTAL
663.420000	26.40	-9.8	46.0	19.6	QP	100.0	274.00	HORIZONTAL

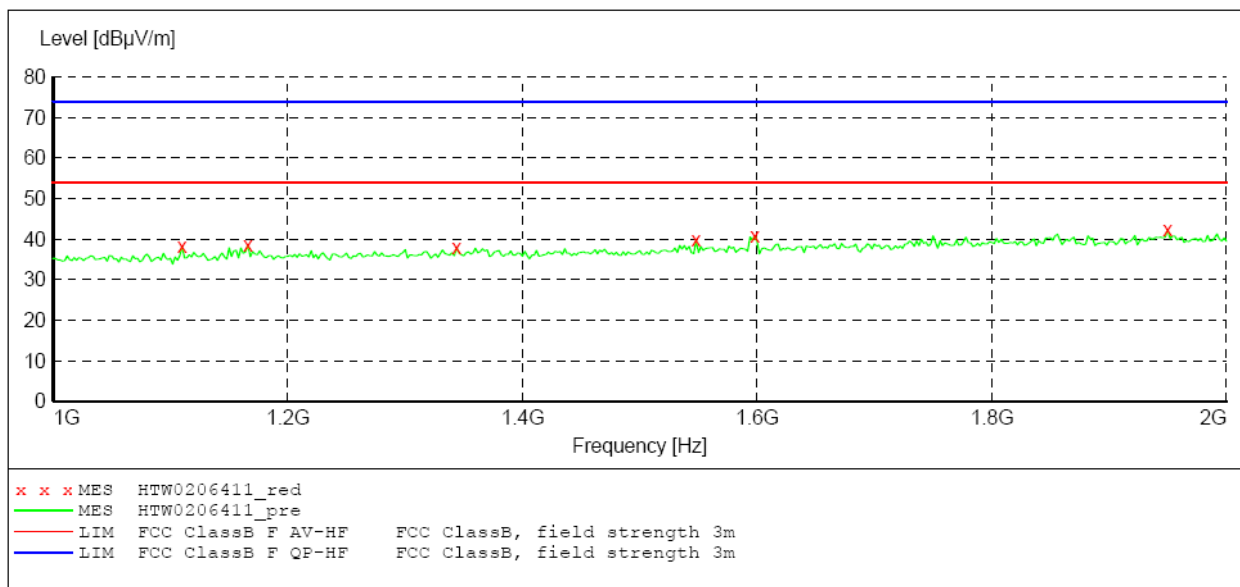
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 10:43:12AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206411_red"

2/6/2013 10:44AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1110.000000	38.20	-11.7	54.0	15.8	PK	100.0	138.00	VERTICAL
1166.000000	38.70	-11.4	54.0	15.3	PK	100.0	302.00	VERTICAL
1344.000000	37.90	-10.7	54.0	16.1	PK	100.0	145.00	VERTICAL
1548.000000	39.80	-9.7	54.0	14.2	PK	100.0	91.00	VERTICAL
1598.000000	40.90	-9.3	54.0	13.1	PK	100.0	254.00	VERTICAL
1950.000000	42.30	-6.9	54.0	11.7	PK	100.0	83.00	VERTICAL

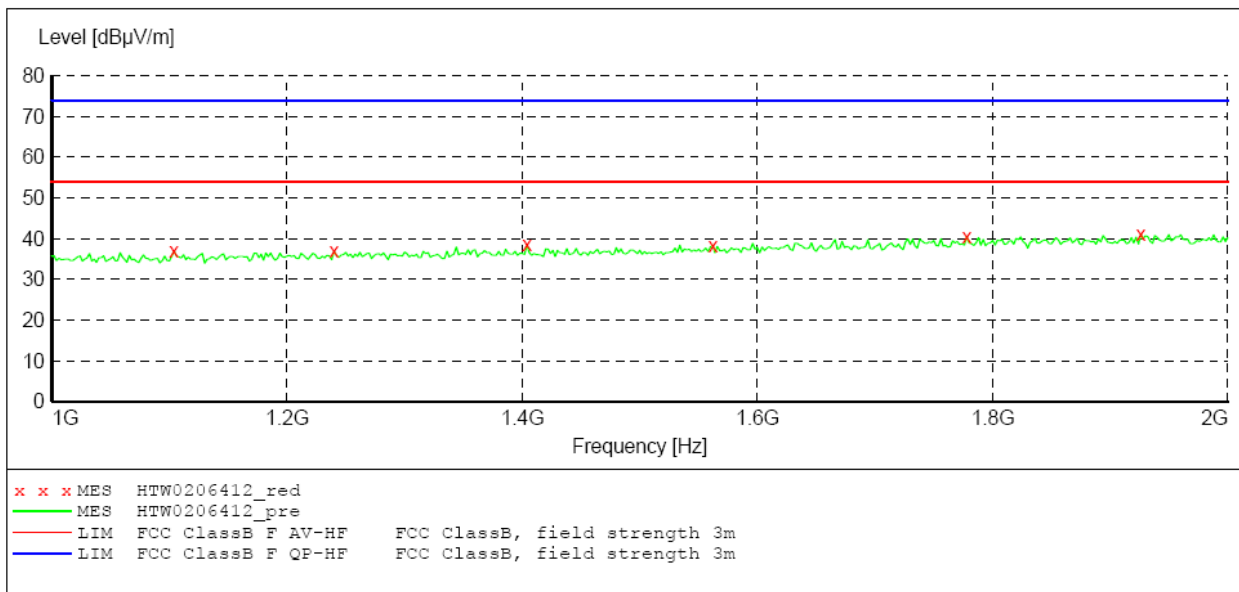
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 10:54:36AM

SWEEP TABLE: "test (1G-18G) P"

Short Description: Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz HF906 2011



MEASUREMENT RESULT: "HTW0206412_red"

2/6/2013 10:56AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1104.000000	37.00	-11.7	54.0	17.0	PK	100.0	94.00	HORIZONTAL
1240.000000	36.90	-11.1	54.0	17.1	PK	100.0	237.00	HORIZONTAL
1404.000000	38.50	-10.4	54.0	15.5	PK	100.0	250.00	HORIZONTAL
1562.000000	38.40	-9.6	54.0	15.6	PK	100.0	272.00	HORIZONTAL
1778.000000	40.60	-8.0	54.0	13.4	PK	100.0	189.00	HORIZONTAL
1926.000000	41.10	-7.1	54.0	12.9	PK	100.0	217.00	HORIZONTAL

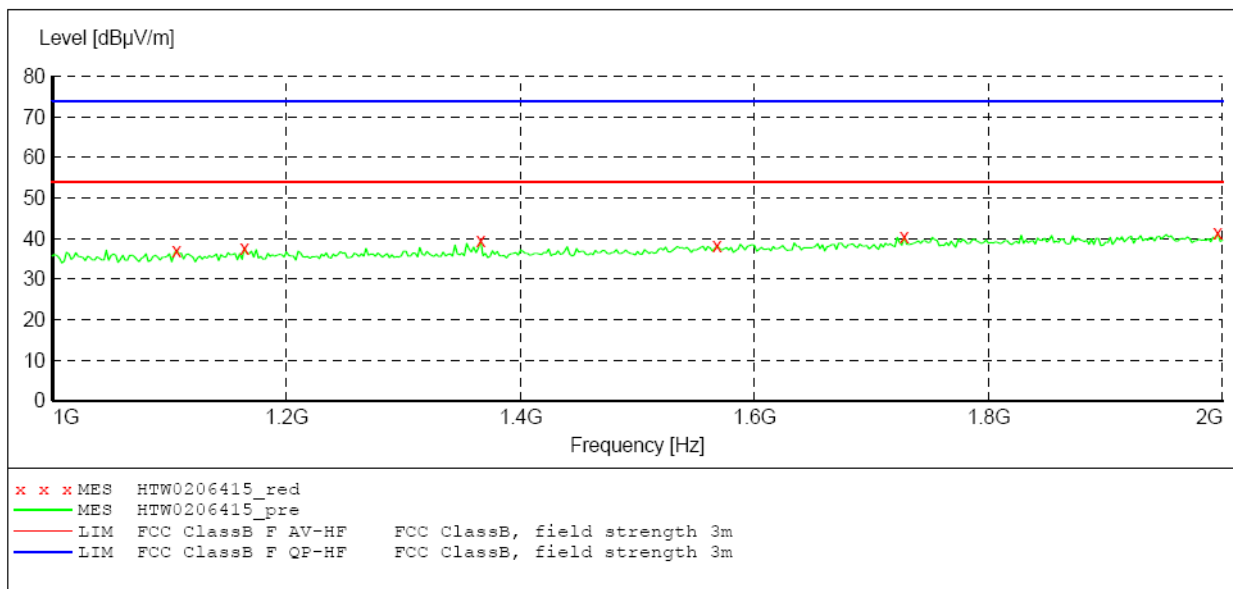
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:01:37AM

SWEEP TABLE: "test (1G-18G) P"

Short Description: Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz HF906 2011



MEASUREMENT RESULT: "HTW0206415_red"

2/6/2013 11:03AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1106.000000	37.20	-11.7	54.0	16.8	PK	100.0	118.00	VERTICAL
1164.000000	37.80	-11.5	54.0	16.2	PK	100.0	275.00	VERTICAL
1366.000000	39.50	-10.6	54.0	14.5	PK	100.0	132.00	VERTICAL
1568.000000	38.30	-9.5	54.0	15.7	PK	100.0	84.00	VERTICAL
1728.000000	40.40	-8.4	54.0	13.6	PK	100.0	275.00	VERTICAL
1996.000000	41.40	-6.6	54.0	12.6	PK	100.0	166.00	VERTICAL

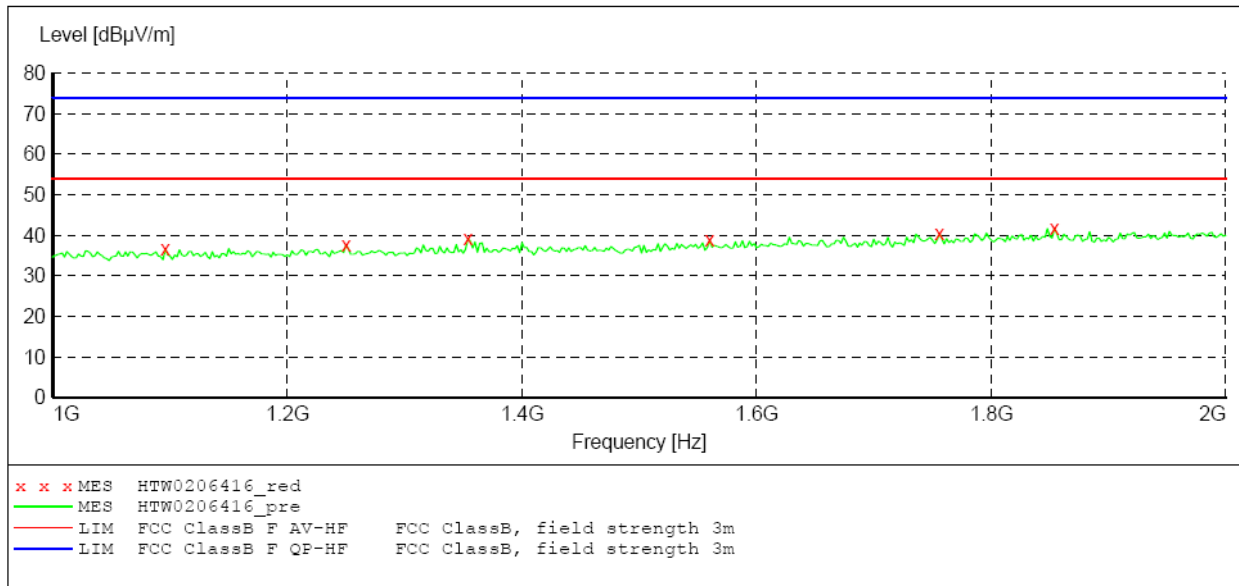
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:03:48AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206416_red"

2/6/2013 11:05AM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1096.000000	36.70	-11.8	54.0	17.3	PK	100.0	353.00	HORIZONTAL
1250.000000	37.70	-11.1	54.0	16.3	PK	100.0	220.00	HORIZONTAL
1354.000000	39.30	-10.6	54.0	14.7	PK	100.0	99.00	HORIZONTAL
1560.000000	38.80	-9.6	54.0	15.2	PK	100.0	77.00	HORIZONTAL
1756.000000	40.40	-8.2	54.0	13.6	PK	100.0	265.00	HORIZONTAL
1854.000000	41.80	-7.5	54.0	12.2	PK	100.0	159.00	HORIZONTAL

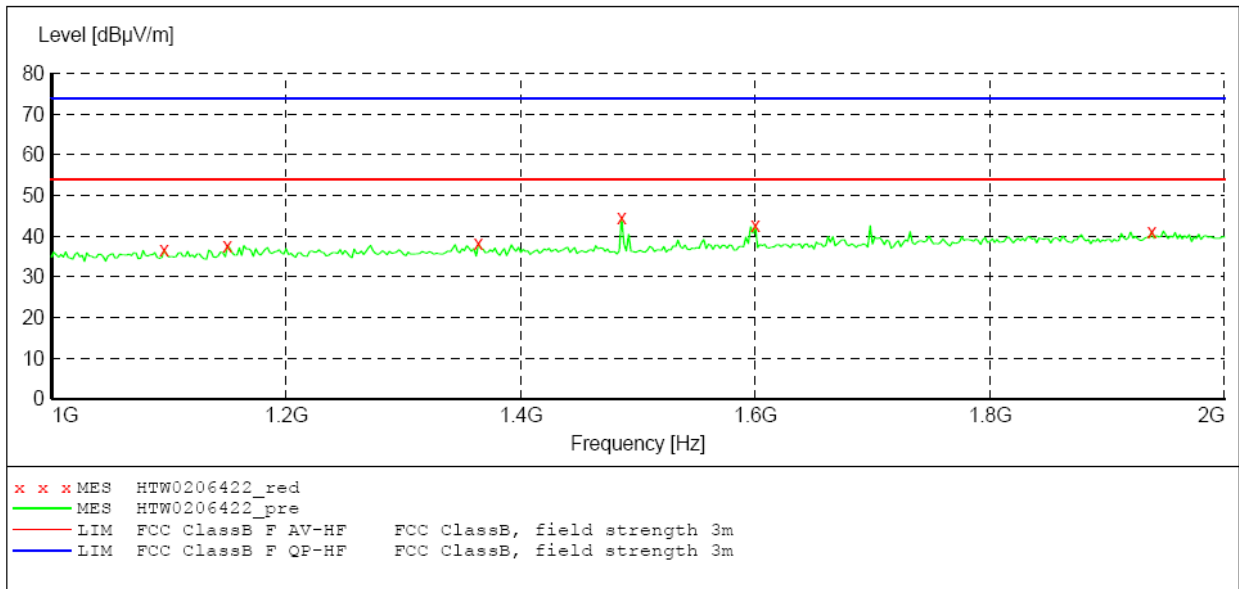
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:27:14AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206422_red"

2/6/2013 11:28AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1096.000000	36.60	-11.8	54.0	17.4	PK	100.0	56.00	VERTICAL
1150.000000	37.70	-11.5	54.0	16.3	PK	100.0	151.00	VERTICAL
1364.000000	38.20	-10.6	54.0	15.8	PK	100.0	139.00	VERTICAL
1486.000000	44.70	-10.1	54.0	9.3	PK	100.0	239.00	VERTICAL
1600.000000	42.90	-9.3	54.0	11.1	PK	100.0	260.00	VERTICAL
1938.000000	41.30	-7.0	54.0	12.7	PK	100.0	220.00	VERTICAL

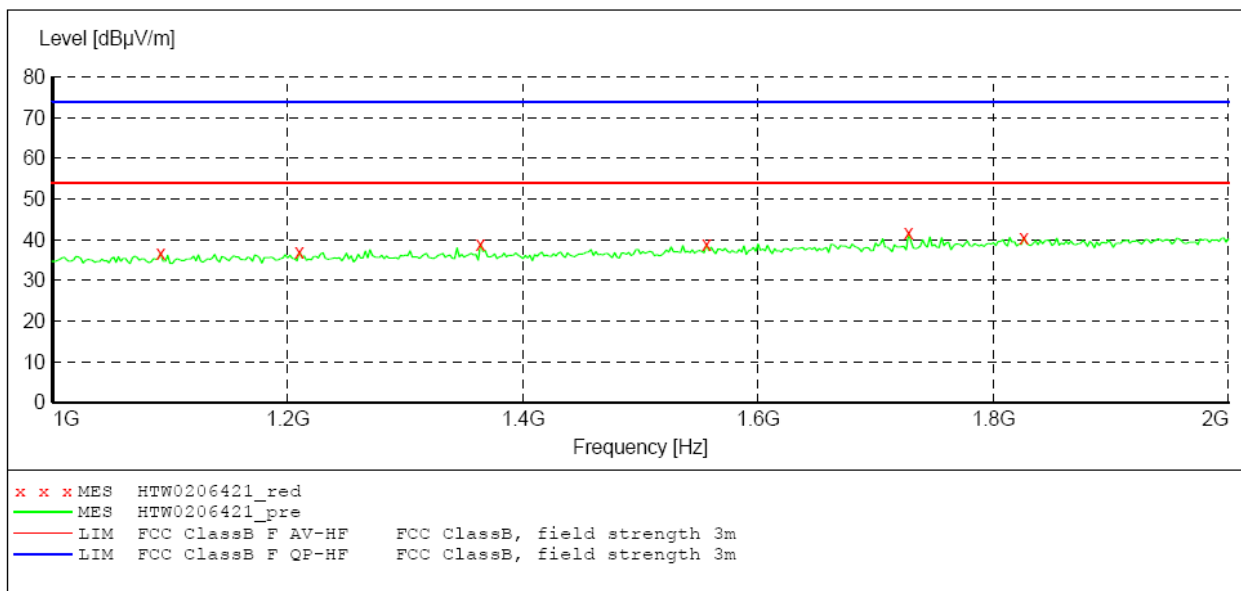
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:25:12AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206421_red"

2/6/2013 11:26AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1092.000000	36.80	-11.8	54.0	17.2	PK	100.0	309.00	HORIZONTAL
1210.000000	37.20	-11.2	54.0	16.8	PK	100.0	29.00	HORIZONTAL
1364.000000	39.10	-10.6	54.0	14.9	PK	100.0	112.00	HORIZONTAL
1556.000000	38.80	-9.6	54.0	15.2	PK	100.0	9.00	HORIZONTAL
1728.000000	41.70	-8.4	54.0	12.3	PK	100.0	262.00	HORIZONTAL
1826.000000	40.60	-7.7	54.0	13.4	PK	100.0	220.00	HORIZONTAL

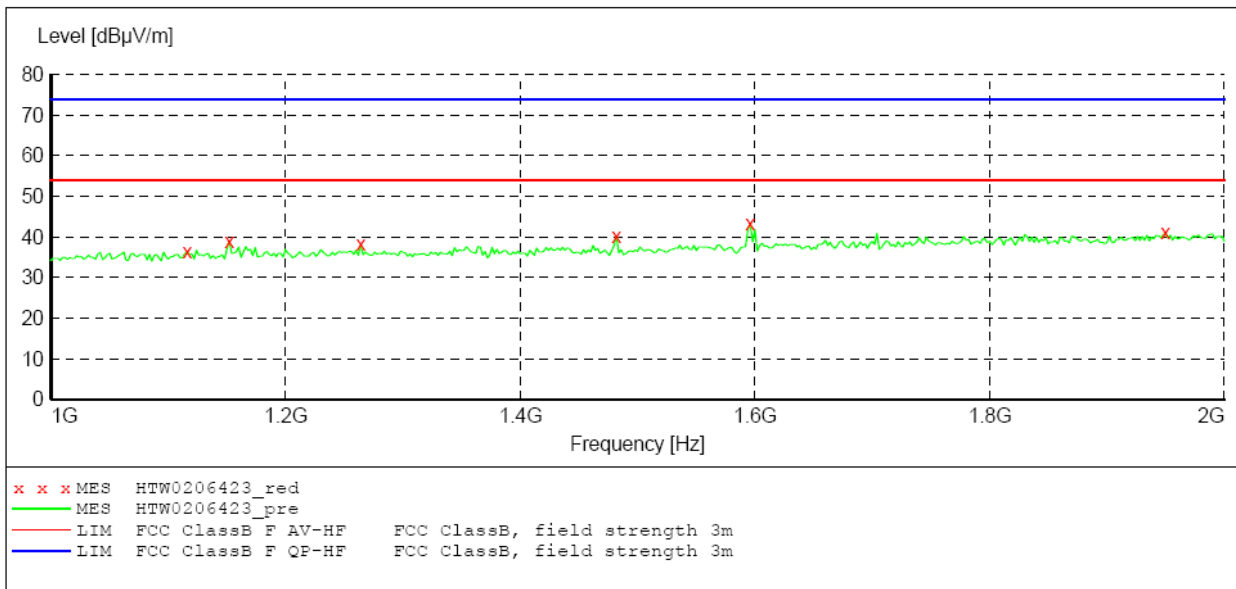
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:31:17AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206423_red"

2/6/2013 11:32AM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1116.000000	36.40	-11.7	54.0	17.6	PK	100.0	158.00	VERTICAL
1152.000000	39.00	-11.5	54.0	15.0	PK	100.0	158.00	VERTICAL
1264.000000	38.20	-11.0	54.0	15.8	PK	100.0	138.00	VERTICAL
1482.000000	40.30	-10.1	54.0	13.7	PK	100.0	245.00	VERTICAL
1596.000000	43.40	-9.3	54.0	10.6	PK	100.0	267.00	VERTICAL
1950.000000	41.00	-6.9	54.0	13.0	PK	100.0	335.00	VERTICAL

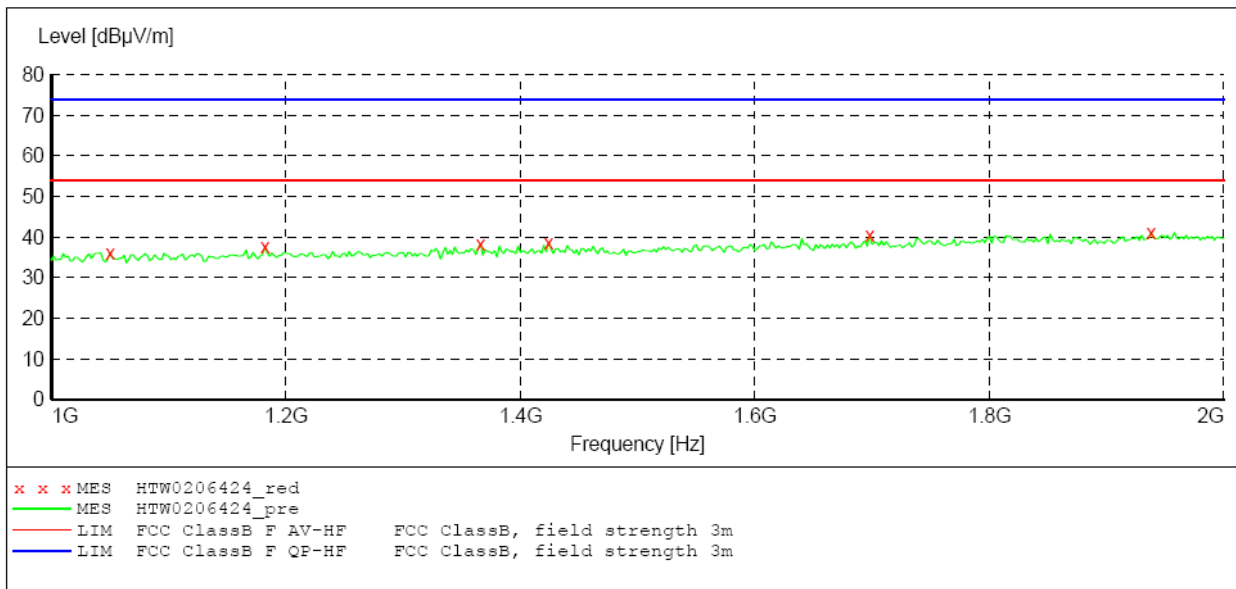
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:33:38AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206424_red"

2/6/2013 11:35AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1050.000000	36.20	-12.0	54.0	17.8	PK	100.0	187.00	HORIZONTAL
1182.000000	37.60	-11.4	54.0	16.4	PK	100.0	228.00	HORIZONTAL
1366.000000	38.40	-10.6	54.0	15.6	PK	100.0	105.00	HORIZONTAL
1424.000000	38.70	-10.3	54.0	15.3	PK	100.0	283.00	HORIZONTAL
1698.000000	40.60	-8.6	54.0	13.4	PK	100.0	241.00	HORIZONTAL
1938.000000	41.30	-7.0	54.0	12.7	PK	100.0	187.00	HORIZONTAL

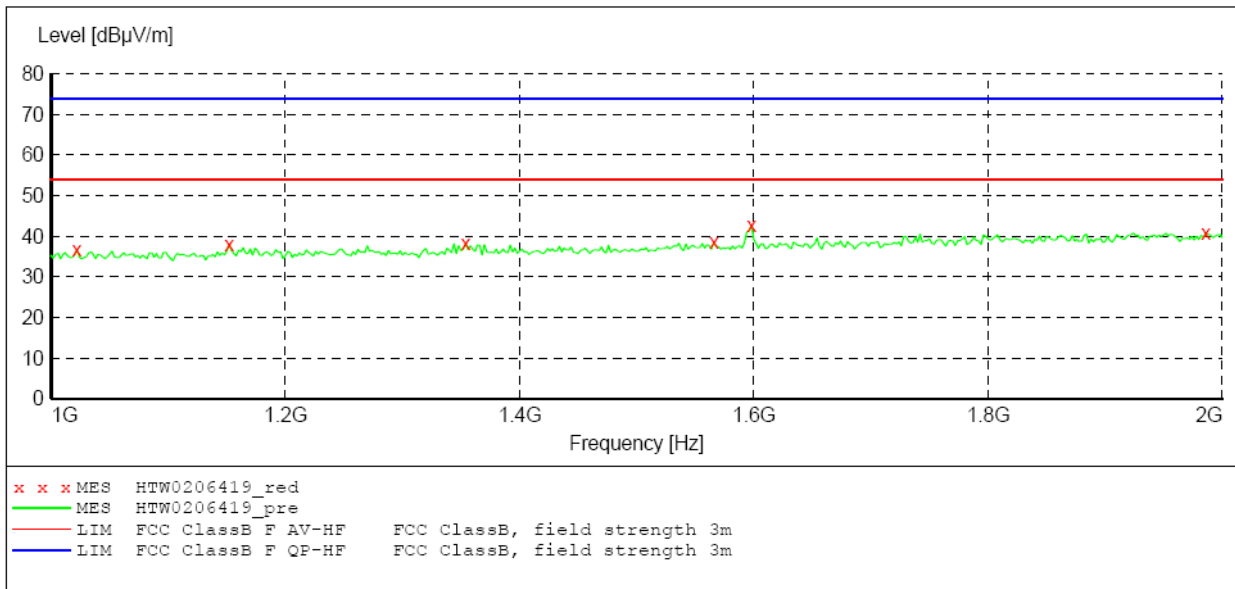
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:20:25AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206419_red"

2/6/2013 11:21AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1022.000000	36.80	-12.2	54.0	17.2	PK	100.0	328.00	VERTICAL
1152.000000	38.10	-11.5	54.0	15.9	PK	100.0	158.00	VERTICAL
1354.000000	38.30	-10.6	54.0	15.7	PK	100.0	137.00	VERTICAL
1566.000000	38.50	-9.5	54.0	15.5	PK	100.0	3.00	VERTICAL
1598.000000	42.80	-9.3	54.0	11.2	PK	100.0	259.00	VERTICAL
1986.000000	40.80	-6.7	54.0	13.2	PK	100.0	259.00	VERTICAL

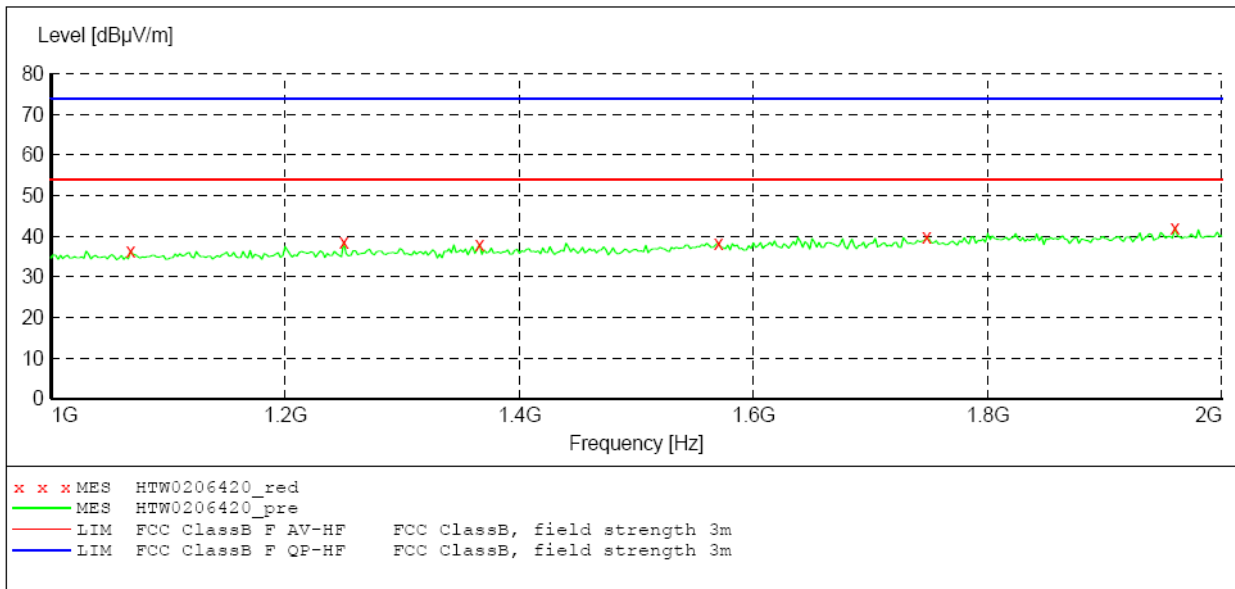
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:22:05AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206420_red"

2/6/2013 11:23AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1068.000000	36.40	-11.9	54.0	17.6	PK	100.0	111.00	HORIZONTAL
1250.000000	38.60	-11.1	54.0	15.4	PK	100.0	165.00	HORIZONTAL
1366.000000	38.00	-10.6	54.0	16.0	PK	100.0	104.00	HORIZONTAL
1570.000000	38.40	-9.5	54.0	15.6	PK	100.0	220.00	HORIZONTAL
1748.000000	39.80	-8.2	54.0	14.2	PK	100.0	356.00	HORIZONTAL
1960.000000	42.20	-6.8	54.0	11.8	PK	100.0	71.00	HORIZONTAL

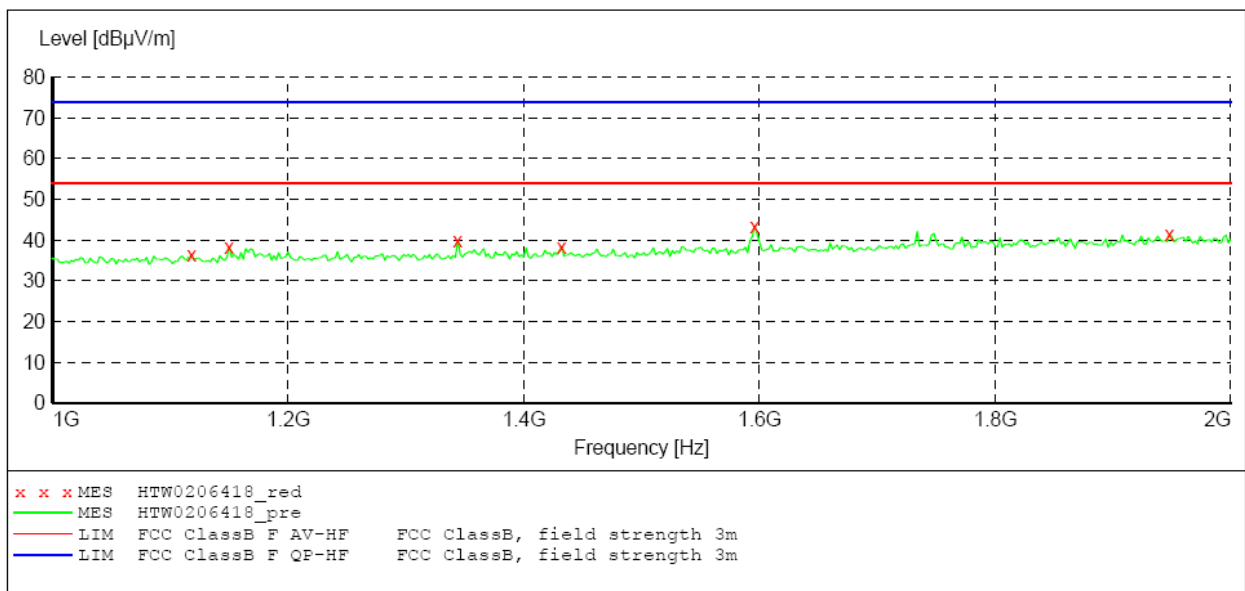
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:17:10AM

SWEEP TABLE: "test (1G-18G) P"

Short Description: Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz HF906 2011



MEASUREMENT RESULT: "HTW0206418_red"

2/6/2013 11:18AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1118.000000	36.30	-11.7	54.0	17.7	PK	100.0	132.00	VERTICAL
1150.000000	38.40	-11.5	54.0	15.6	PK	100.0	159.00	VERTICAL
1344.000000	39.90	-10.7	54.0	14.1	PK	100.0	132.00	VERTICAL
1432.000000	38.40	-10.3	54.0	15.6	PK	100.0	173.00	VERTICAL
1596.000000	43.50	-9.3	54.0	10.5	PK	100.0	276.00	VERTICAL
1948.000000	41.40	-6.9	54.0	12.6	PK	100.0	262.00	VERTICAL

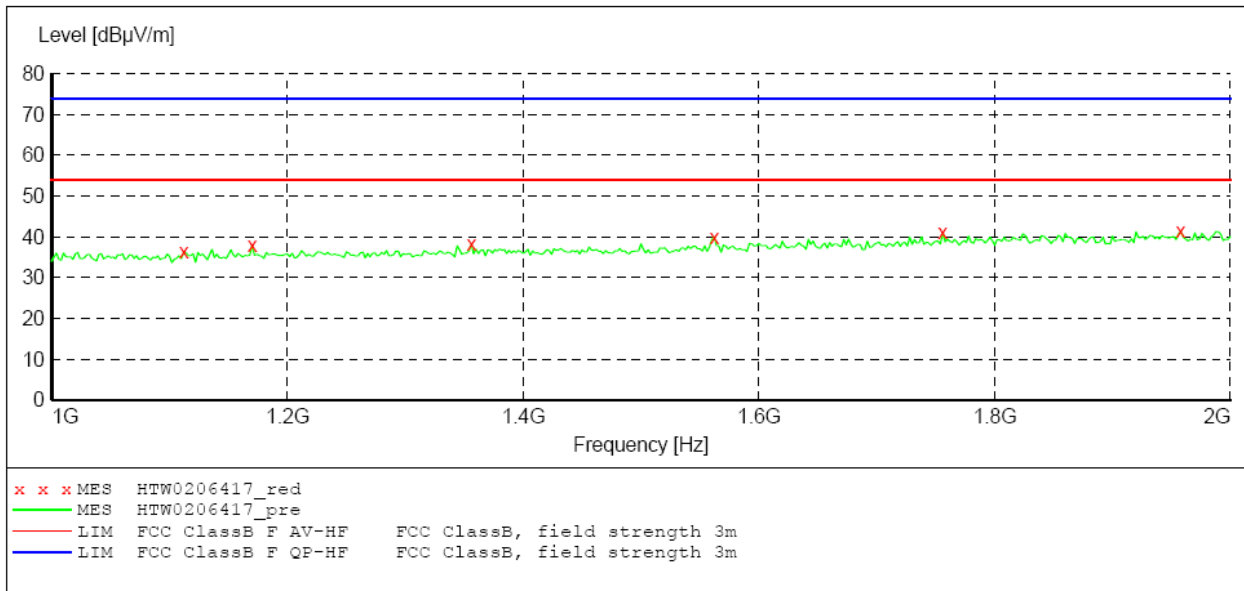
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:15:06AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206417_red"

2/6/2013 11:16AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1112.000000	36.30	-11.7	54.0	17.7	PK	100.0	316.00	HORIZONTAL
1170.000000	38.10	-11.4	54.0	15.9	PK	100.0	153.00	HORIZONTAL
1356.000000	38.20	-10.6	54.0	15.8	PK	100.0	98.00	HORIZONTAL
1562.000000	40.00	-9.6	54.0	14.0	PK	100.0	77.00	HORIZONTAL
1756.000000	41.10	-8.2	54.0	12.9	PK	100.0	323.00	HORIZONTAL
1958.000000	41.40	-6.9	54.0	12.6	PK	100.0	221.00	HORIZONTAL

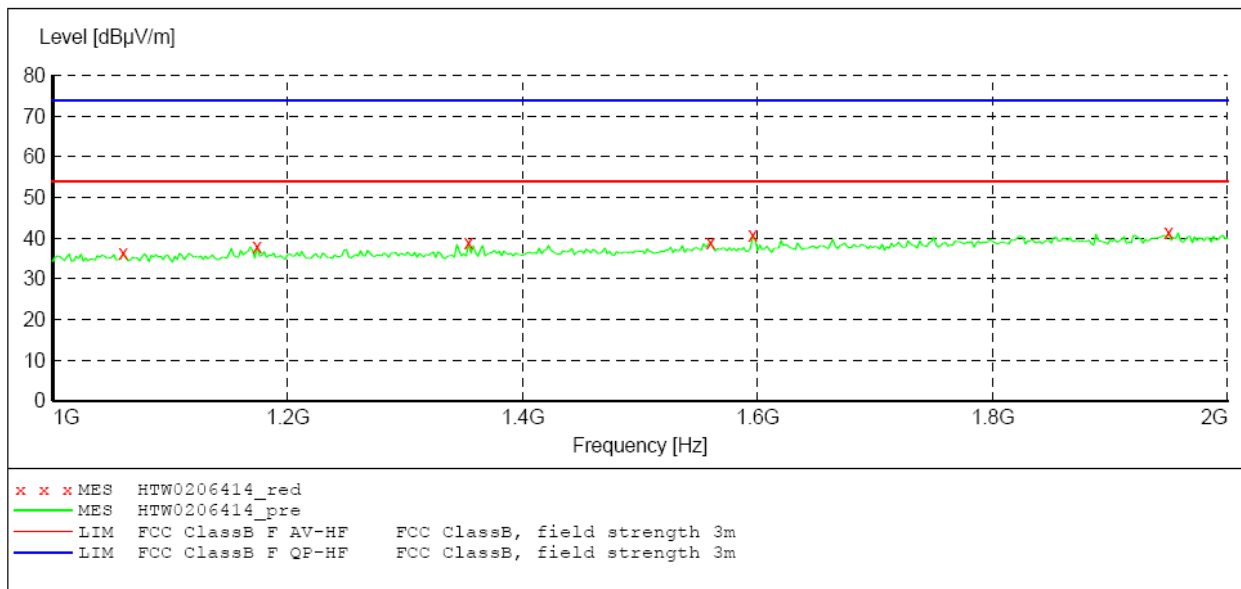
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 10:58:51AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206414_red"

2/6/2013 11:00AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1060.000000	36.40	-12.0	54.0	17.6	PK	100.0	25.00	VERTICAL
1174.000000	37.90	-11.4	54.0	16.1	PK	100.0	162.00	VERTICAL
1354.000000	39.00	-10.6	54.0	15.0	PK	100.0	135.00	VERTICAL
1560.000000	39.00	-9.6	54.0	15.0	PK	100.0	359.00	VERTICAL
1596.000000	40.80	-9.3	54.0	13.2	PK	100.0	271.00	VERTICAL
1950.000000	41.50	-6.9	54.0	12.5	PK	100.0	19.00	VERTICAL

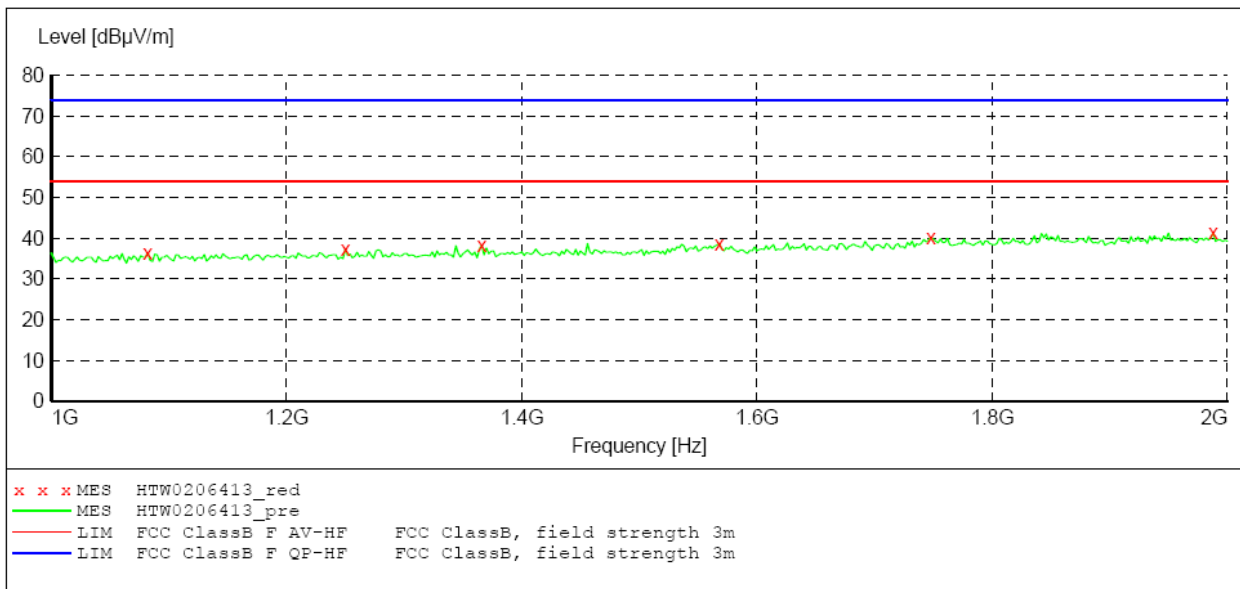
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 10:57:01AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206413_red"

2/6/2013 10:58AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1082.000000	36.50	-11.9	54.0	17.5	PK	100.0	187.00	HORIZONTAL
1250.000000	37.40	-11.1	54.0	16.6	PK	100.0	173.00	HORIZONTAL
1366.000000	38.40	-10.6	54.0	15.6	PK	100.0	99.00	HORIZONTAL
1568.000000	38.70	-9.5	54.0	15.3	PK	100.0	200.00	HORIZONTAL
1748.000000	40.30	-8.2	54.0	13.7	PK	100.0	290.00	HORIZONTAL
1988.000000	41.40	-6.7	54.0	12.6	PK	100.0	310.00	HORIZONTAL

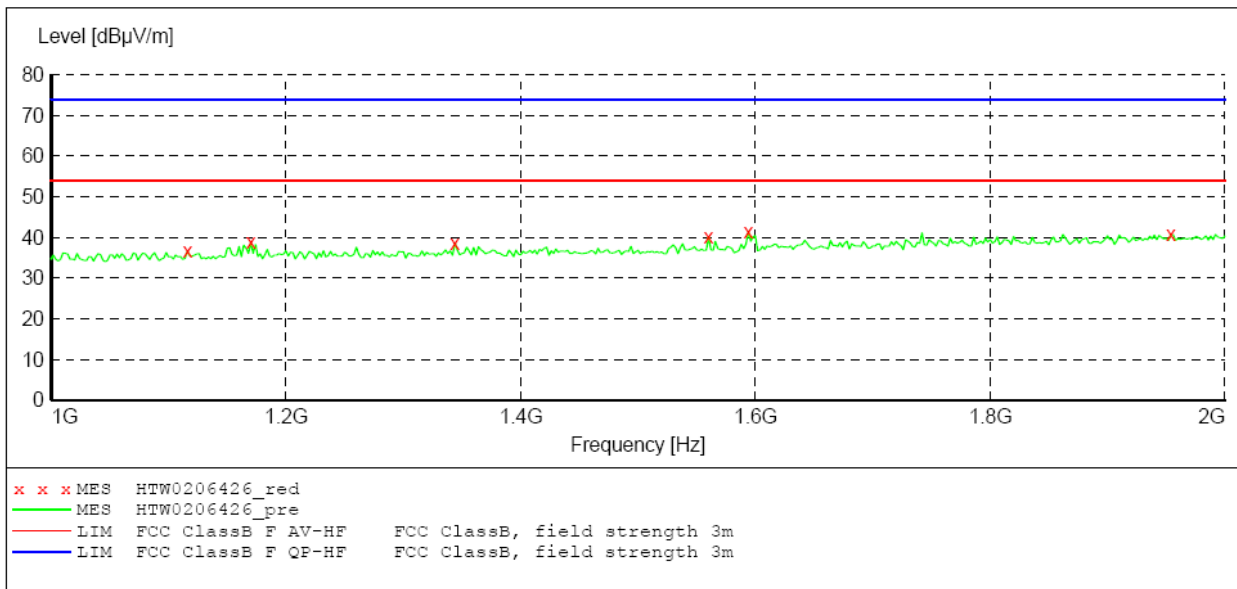
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 12:00:19PM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206426_red"

2/6/2013 12:01PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1116.000000	36.70	-11.7	54.0	17.3	PK	100.0	282.00	VERTICAL
1170.000000	38.80	-11.4	54.0	15.2	PK	100.0	159.00	VERTICAL
1344.000000	38.70	-10.7	54.0	15.3	PK	100.0	138.00	VERTICAL
1560.000000	40.20	-9.6	54.0	13.8	PK	100.0	0.00	VERTICAL
1594.000000	41.60	-9.3	54.0	12.4	PK	100.0	295.00	VERTICAL
1954.000000	40.80	-6.9	54.0	13.2	PK	100.0	186.00	VERTICAL

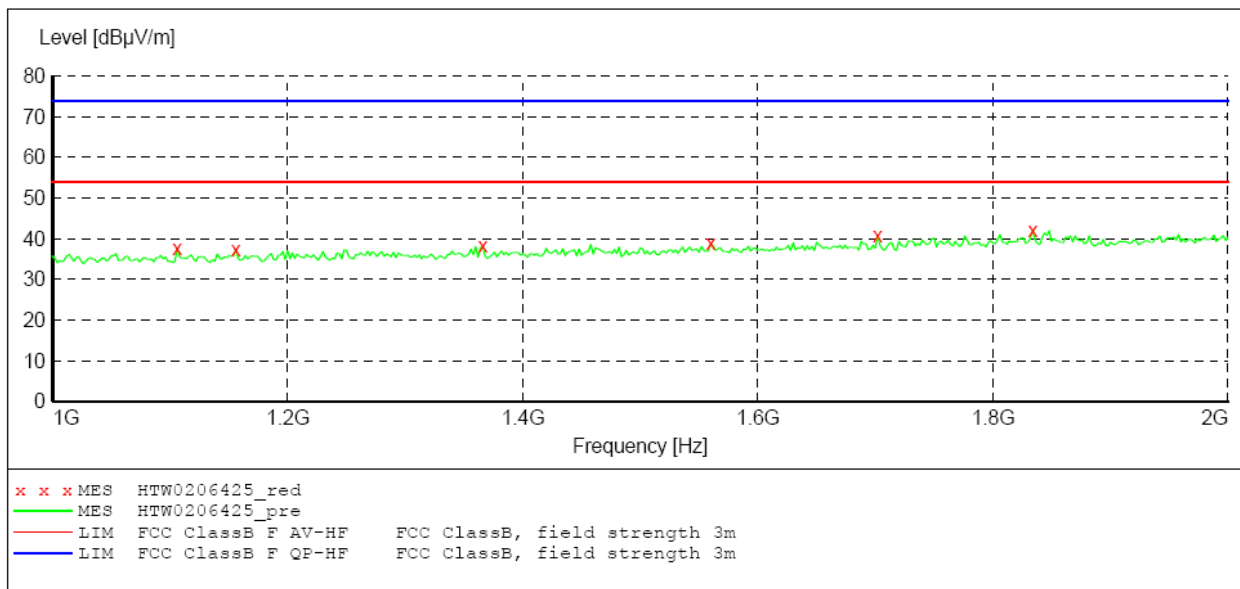
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 11:58:11AM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206425_red"

2/6/2013 11:59AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1106.000000	37.60	-11.7	54.0	16.4	PK	100.0	178.00	HORIZONTAL
1156.000000	37.40	-11.5	54.0	16.6	PK	100.0	103.00	HORIZONTAL
1366.000000	38.20	-10.6	54.0	15.8	PK	100.0	103.00	HORIZONTAL
1560.000000	38.90	-9.6	54.0	15.1	PK	100.0	73.00	HORIZONTAL
1702.000000	40.70	-8.5	54.0	13.3	PK	100.0	335.00	HORIZONTAL
1834.000000	42.20	-7.6	54.0	11.8	PK	100.0	157.00	HORIZONTAL

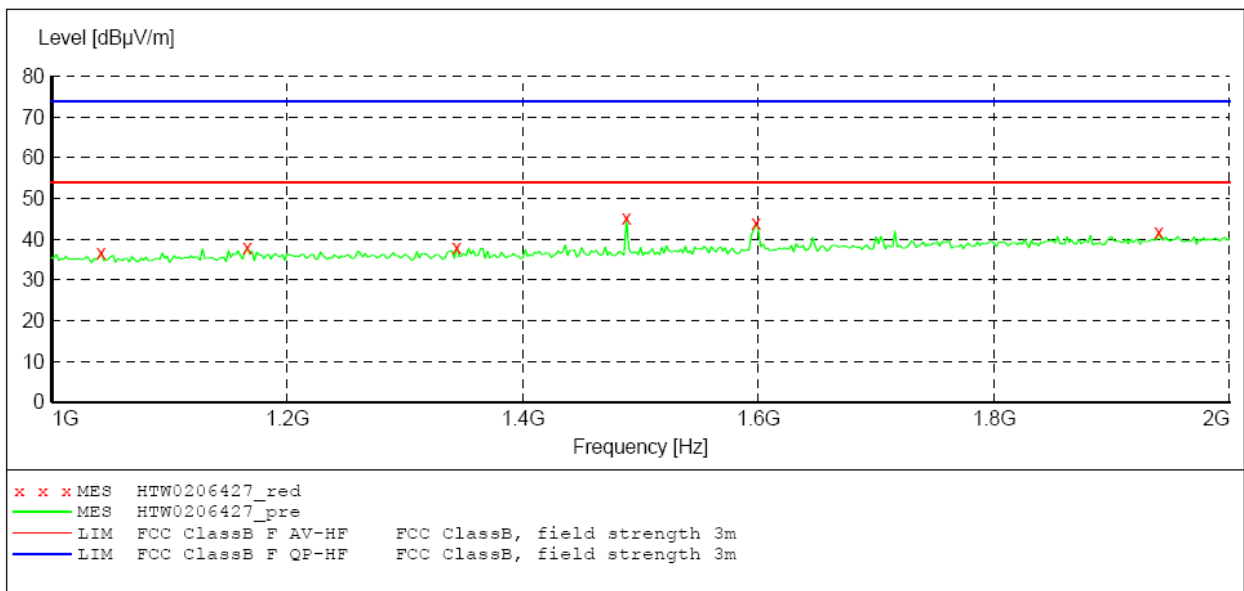
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 12:02:46PM

SWEEP TABLE: "test (1G-18G) P"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Field Strength	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	FCC ClassB, field strength 3m	HF906 2011



MEASUREMENT RESULT: "HTW0206427_red"

2/6/2013 12:04PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1042.000000	36.80	-12.1	54.0	17.2	PK	100.0	329.00	VERTICAL
1166.000000	38.10	-11.4	54.0	15.9	PK	100.0	151.00	VERTICAL
1344.000000	38.10	-10.7	54.0	15.9	PK	100.0	131.00	VERTICAL
1488.000000	45.20	-10.1	54.0	8.8	PK	100.0	260.00	VERTICAL
1598.000000	43.90	-9.3	54.0	10.1	PK	100.0	274.00	VERTICAL
1940.000000	41.80	-7.0	54.0	12.2	PK	100.0	219.00	VERTICAL

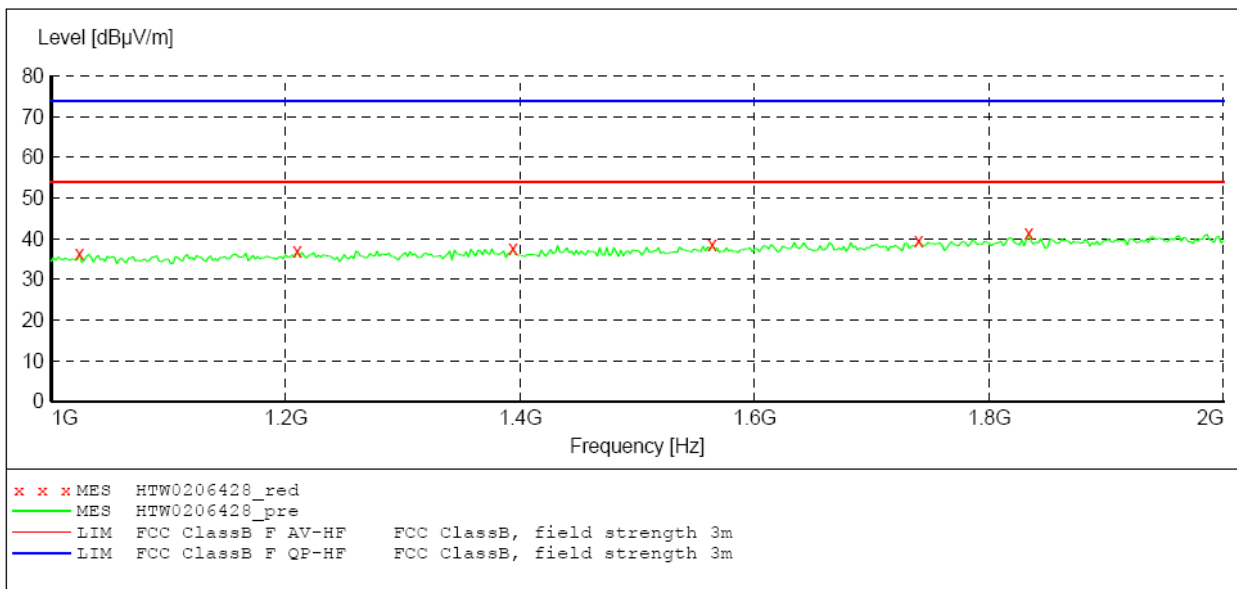
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 CLASSB

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: CHEN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 2/6/2013 / 12:05:05PM

SWEEP TABLE: "test (1G-18G) P"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	HF906 2011



MEASUREMENT RESULT: "HTW0206428_red"

2/6/2013 12:06PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1024.000000	36.30	-12.2	54.0	17.7	PK	100.0	219.00	HORIZONTAL
1210.000000	37.10	-11.2	54.0	16.9	PK	100.0	172.00	HORIZONTAL
1394.000000	37.80	-10.5	54.0	16.2	PK	100.0	341.00	HORIZONTAL
1564.000000	38.60	-9.6	54.0	15.4	PK	100.0	56.00	HORIZONTAL
1740.000000	39.60	-8.3	54.0	14.4	PK	100.0	14.00	HORIZONTAL
1834.000000	41.40	-7.6	54.0	12.6	PK	100.0	247.00	HORIZONTAL

4.2. Conducted Disturbance

For test instruments and accessories used see section 3.6.

4.2.1. Description of the test location

Test location: Shielded room No. 3

4.2.2. Limits of disturbance

Limit of Conducted Disturbance at Mains Ports (Class B)

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.000	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

4.2.3. Description of the test set-up

4.2.3.1. Operating Condition

The EUT is set to work that shall be carried out respectively Standby, Copy, USB Print, NIC Print, USB Scan, NIC Scan, Scan to USB memory, FAX Tx, FAX Rx modes during the test and the results of the maximum emanation are recorded.

4.2.3.2. Test Procedure

EUT is placed on a nonmetal table 0.8 meter above the grounded reference plane. The power line of the EUT is connected to the LISN which is connected to receiver by coaxial line, and then disturbance signals of the neutral line and live line can be detected by the receiver.

4.2.3.3. Photos of the test set-up



4.2.4. Test result

The requirements are **Fulfilled**

Band Width: 9 KHz

Frequency Range: 150 KHz to 30MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

Margin=limit-level

Level=read value+transducer

Transducer=insertion loss of LISN+cable loss+insertion loss of pulse limiter

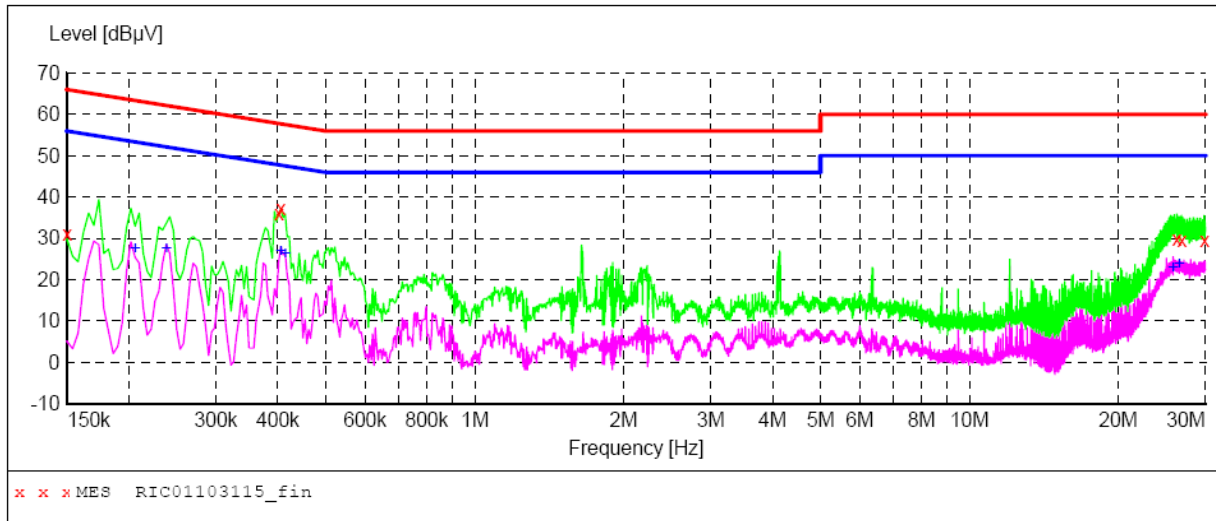
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 2:19:02PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103115_fin"

1/14/2013 2:23PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	31.10	10.2	66	34.9	QP	N	GND
0.402000	36.00	10.2	58	22.0	QP	N	GND
0.406000	37.10	10.2	58	20.6	QP	N	GND
26.258000	29.70	11.2	60	30.3	QP	N	GND
26.870000	29.60	11.2	60	30.4	QP	N	GND
29.838000	29.40	11.3	60	30.6	QP	N	GND

MEASUREMENT RESULT: "RIC01103115_fin2"

2/1/2013 3:27PM

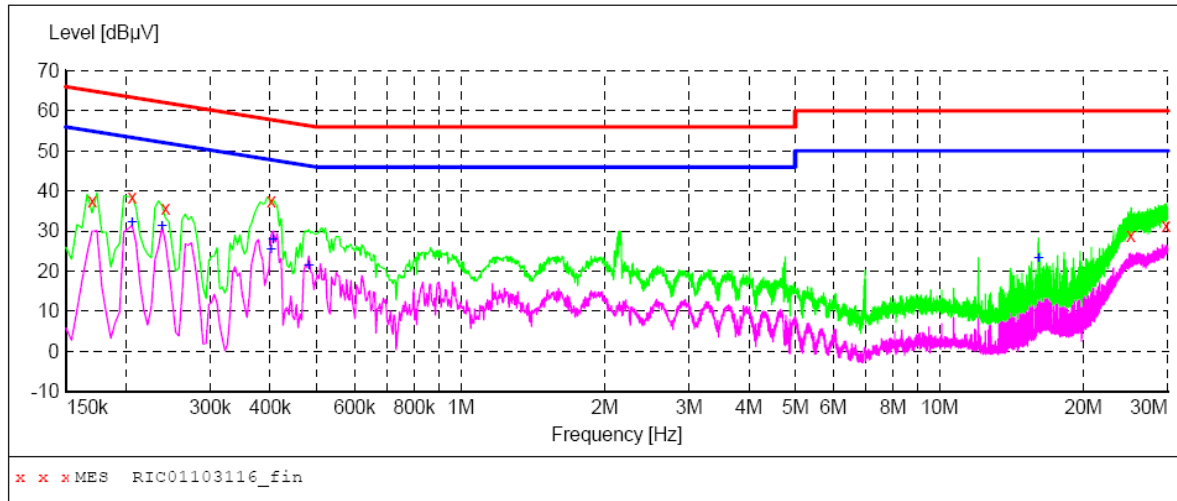
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.206000	27.70	10.2	53	25.3	AV	N	GND
0.238000	27.60	10.2	52	24.4	AV	N	GND
0.406000	27.00	10.2	48	21.0	AV	N	GND
0.414000	26.50	10.2	48	21.5	AV	N	GND
25.814000	23.10	11.1	50	26.9	AV	N	GND
26.544000	24.10	11.1	50	25.9	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 2:29:50PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103116_fin"

1/14/2013 2:46PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.170000	37.60	10.2	65	27.4	QP	L1	GND
0.206000	38.50	10.2	63	24.5	QP	L1	GND
0.242000	35.80	10.2	62	26.2	QP	L1	GND
0.402000	37.70	10.2	58	20.3	QP	L1	GND
25.106000	28.90	11.1	60	31.1	QP	L1	GND
29.738000	31.50	11.3	60	28.5	QP	L1	GND

MEASUREMENT RESULT: "RIC01103116_fin2"

1/14/2013 2:31PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.206000	32.40	10.2	53	20.6	AV	L1	GND
0.238000	31.30	10.2	52	20.7	AV	L1	GND
0.402000	25.60	10.2	48	22.4	AV	L1	GND
0.406000	28.00	10.2	48	20.0	AV	L1	GND
0.482000	21.60	10.2	46	24.4	AV	L1	GND
16.130000	23.20	10.7	50	26.8	AV	L1	GND

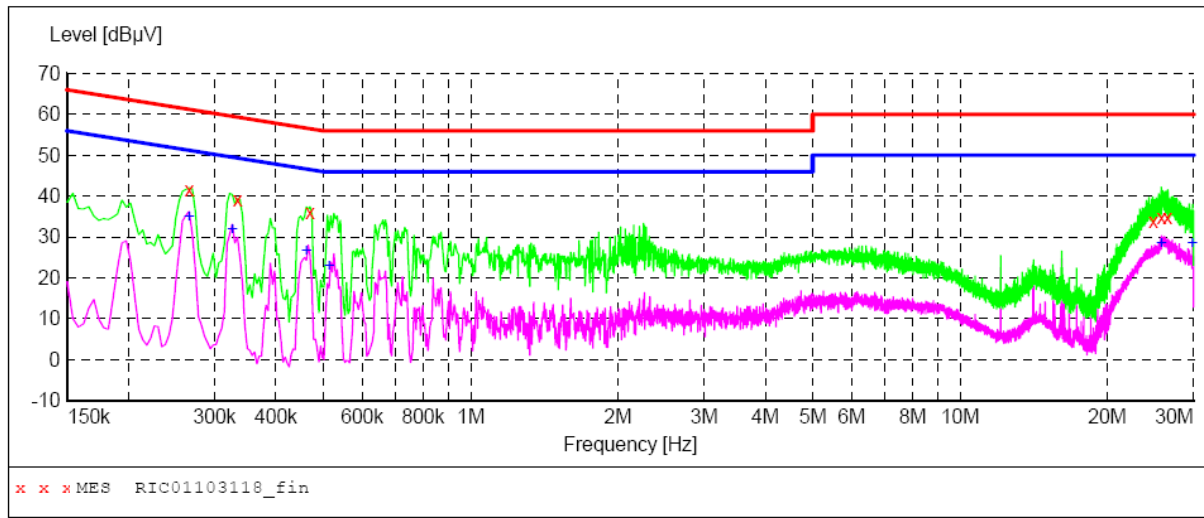
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 2:39:47PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103118_fin"

1/14/2013 2:42PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.266000	41.60	10.2	61	19.4	QP	N	GND
0.334000	39.10	10.2	59	19.9	QP	N	GND
0.470000	36.10	10.2	57	20.9	QP	N	GND
24.802000	33.70	11.1	60	26.3	QP	N	GND
25.794000	34.80	11.1	60	25.2	QP	N	GND
26.526000	34.70	11.2	60	25.3	QP	N	GND

MEASUREMENT RESULT: "RIC01103118_fin2"

1/14/2013 2:42PM

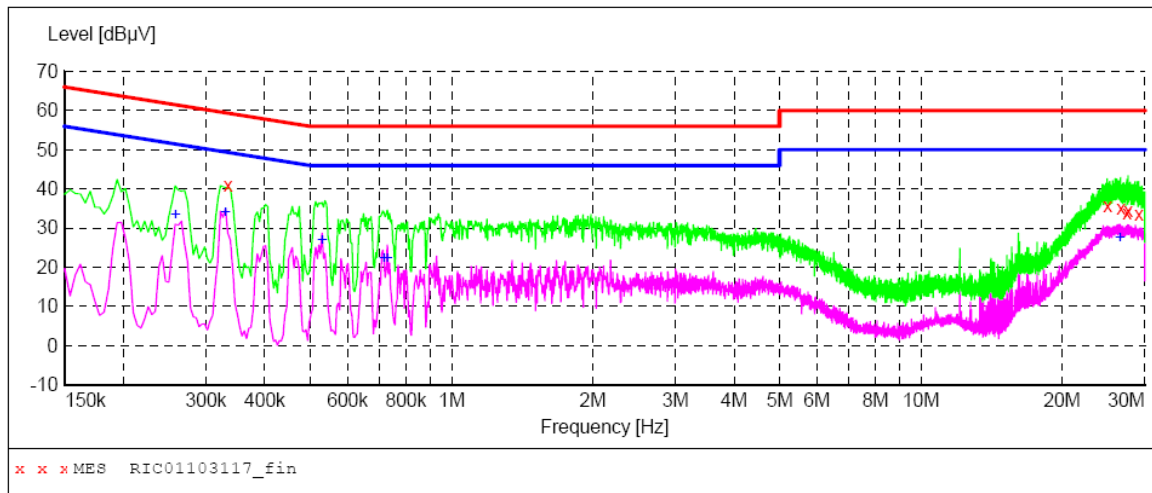
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.266000	35.20	10.2	51	15.8	AV	N	GND
0.326000	32.10	10.2	50	17.9	AV	N	GND
0.462000	26.80	10.2	47	19.2	AV	N	GND
0.514000	23.10	10.2	46	22.9	AV	N	GND
25.790000	28.50	11.1	50	21.5	AV	N	GND
29.830000	28.70	11.3	50	21.3	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 2:37:51PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103117_fin"

1/14/2013 2:39PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.334000	41.00	10.2	59	18.0	QP	L1	GND
24.974000	35.60	11.1	60	24.4	QP	L1	GND
26.654000	35.00	11.2	60	25.0	QP	L1	GND
27.466000	33.90	11.2	60	26.1	QP	L1	GND
27.638000	34.30	11.2	60	25.7	QP	L1	GND
29.106000	33.60	11.2	60	26.4	QP	L1	GND

MEASUREMENT RESULT: "RIC01103117_fin2"

1/14/2013 2:39PM

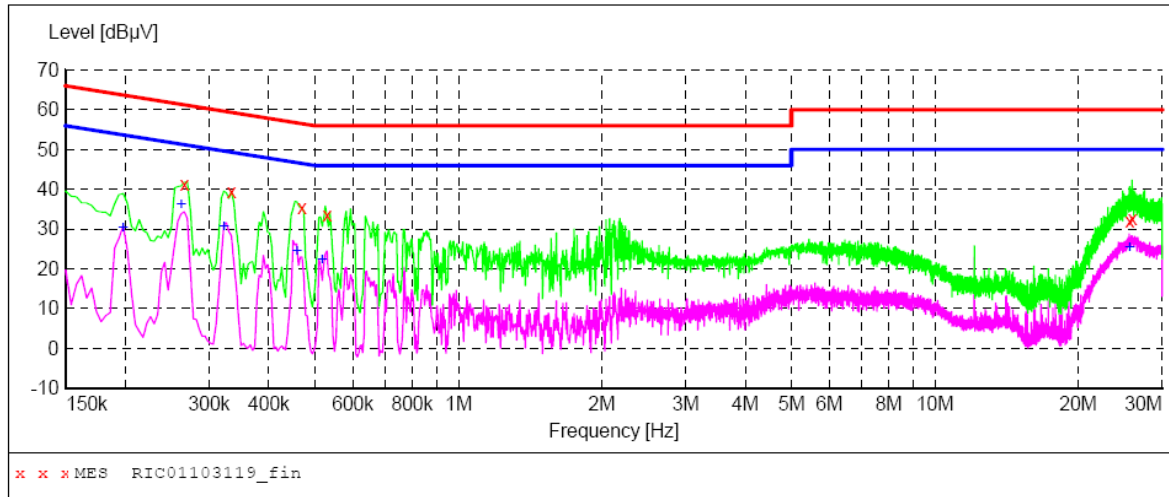
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.258000	33.50	10.2	52	18.0	AV	L1	GND
0.330000	34.10	10.2	50	15.9	AV	L1	GND
0.530000	27.20	10.2	46	18.8	AV	L1	GND
0.718000	22.30	10.2	46	23.7	AV	L1	GND
0.730000	22.60	10.2	46	23.4	AV	L1	GND
26.570000	27.70	11.2	50	22.3	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 2:50:58PM

SCAN TABLE: "Voltage(150K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103119_fin"

1/14/2013 2:54PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.266000	41.30	10.2	61	19.7	QP	N	GND
0.334000	39.50	10.2	59	19.5	QP	N	GND
0.470000	35.30	10.2	57	21.7	QP	N	GND
0.530000	33.50	10.2	56	22.5	QP	N	GND
25.646000	32.10	11.1	60	27.9	QP	N	GND
25.966000	32.50	11.2	60	27.5	QP	N	GND

MEASUREMENT RESULT: "RIC01103119_fin2"

1/14/2013 2:54PM

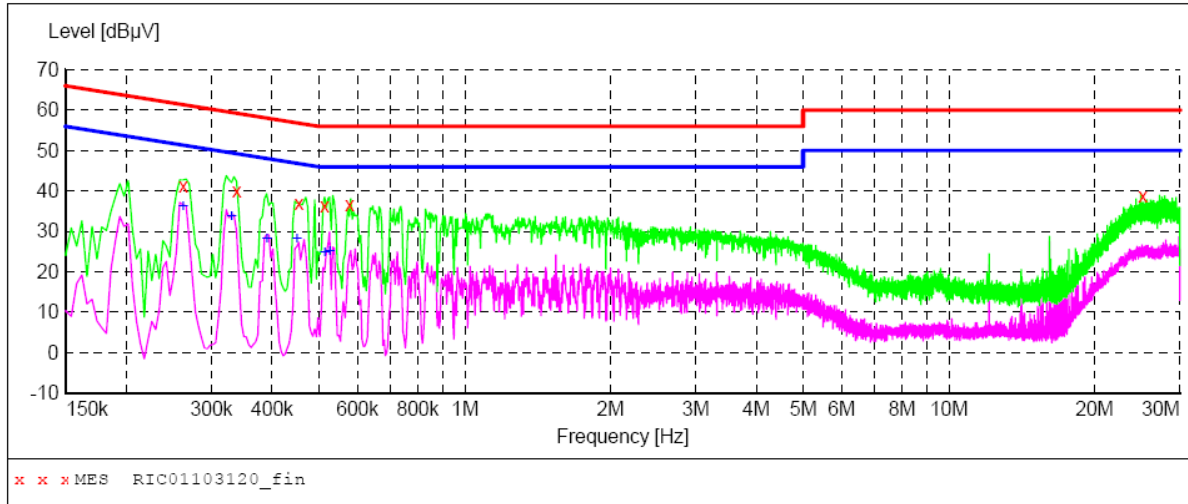
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.198000	30.60	10.2	54	23.4	AV	N	GND
0.262000	36.20	10.2	51	14.8	AV	N	GND
0.322000	30.80	10.2	50	19.2	AV	N	GND
0.458000	24.70	10.2	47	22.2	AV	N	GND
0.518000	22.40	10.2	46	23.6	AV	N	GND
25.622000	25.60	11.1	50	24.4	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 2:55:28PM

SCAN TABLE: "Voltage(150K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103120_fin"

2/1/2013 3:28PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.262000	41.10	10.2	61	19.9	QP	L1	GND
0.338000	40.10	10.2	59	18.9	QP	L1	GND
0.454000	36.90	10.2	57	20.1	QP	L1	GND
0.514000	36.30	10.2	56	19.7	QP	L1	GND
0.578000	36.70	10.2	56	19.3	QP	L1	GND
25.128000	38.70	11.2	60	21.3	QP	L1	GND

MEASUREMENT RESULT: "RIC01103120_fin2"

1/14/2013 2:58PM

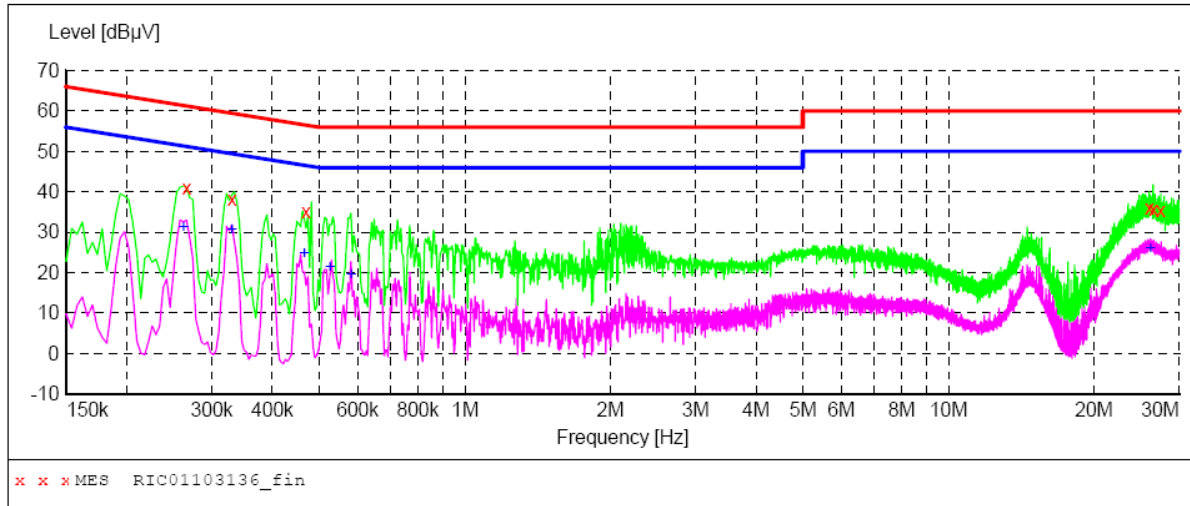
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.262000	36.30	10.2	51	14.7	AV	L1	GND
0.330000	33.80	10.2	50	16.2	AV	L1	GND
0.390000	28.30	10.2	48	19.7	AV	L1	GND
0.450000	28.20	10.2	47	18.8	AV	L1	GND
0.514000	24.80	10.2	46	21.2	AV	L1	GND
0.526000	25.30	10.2	46	20.7	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 4:28:45PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103136_fin"

1/14/2013 5:07PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.266000	41.00	10.2	61	20.0	QP	N	GND
0.330000	38.30	10.2	60	21.7	QP	N	GND
0.470000	35.00	10.2	57	22.0	QP	N	GND
26.014000	36.00	11.2	60	24.0	QP	N	GND
26.510000	35.80	11.2	60	24.2	QP	N	GND
27.426000	35.50	11.2	60	24.5	QP	N	GND

MEASUREMENT RESULT: "RIC01103136_fin2"

1/14/2013 5:06PM

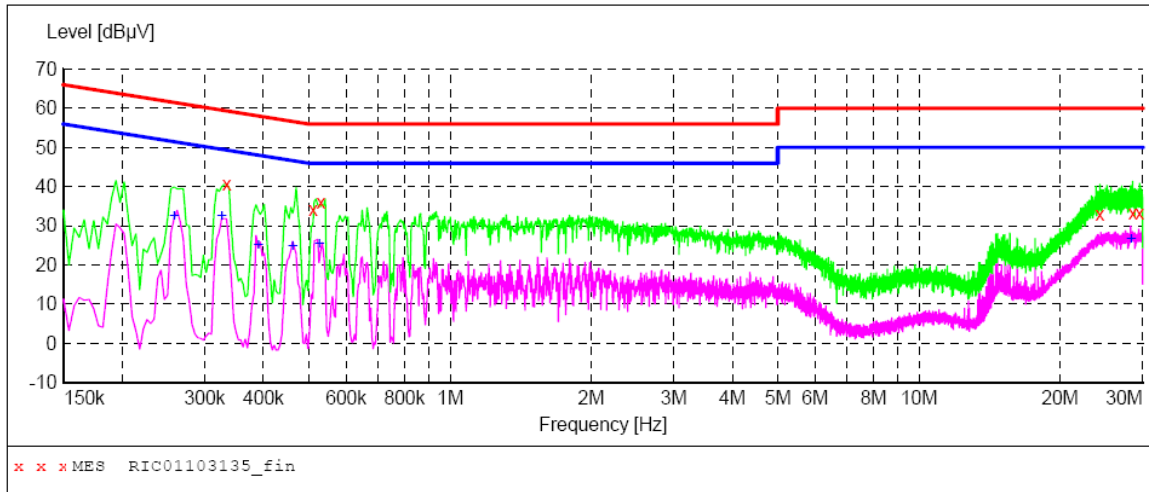
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.262000	31.40	10.2	51	19.6	AV	N	GND
0.330000	30.70	10.2	50	19.3	AV	N	GND
0.466000	24.80	10.2	47	22.2	AV	N	GND
0.526000	21.40	10.2	46	24.6	AV	N	GND
0.582000	19.60	10.2	46	26.4	AV	N	GND
26.146000	26.20	11.2	50	23.8	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 4:25:36PM

SCAN TABLE: "Voltage(150K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103135_fin"

1/14/2013 4:28PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.334000	40.60	10.2	59	18.4	QP	L1	GND
0.510000	34.10	10.2	56	21.9	QP	L1	GND
0.530000	35.90	10.2	56	20.1	QP	L1	GND
24.286000	32.90	11.1	60	27.1	QP	L1	GND
28.554000	33.10	11.2	60	26.9	QP	L1	GND
29.538000	33.10	11.3	60	26.9	QP	L1	GND

MEASUREMENT RESULT: "RIC01103135_fin2"

1/14/2013 4:28PM

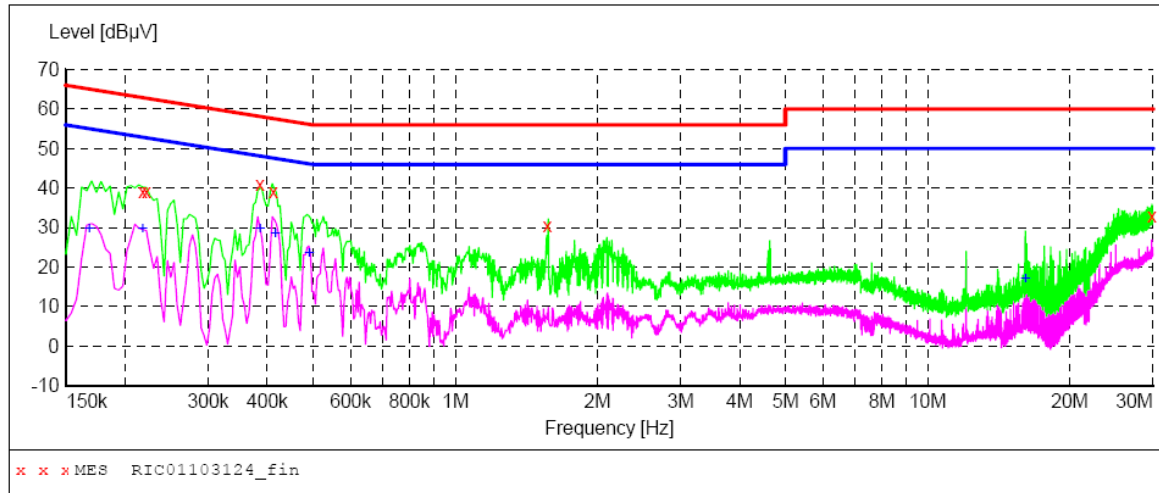
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.258000	32.50	10.2	52	19.5	AV	L1	GND
0.326000	32.50	10.2	50	17.5	AV	L1	GND
0.390000	25.30	10.2	48	22.8	AV	L1	GND
0.462000	25.00	10.2	47	22.0	AV	L1	GND
0.526000	25.60	10.2	46	20.4	AV	L1	GND
28.314000	26.80	11.2	50	23.2	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 3:15:46PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103124_fin"

1/14/2013 3:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.218000	39.00	10.2	63	24.0	QP	N	GND
0.222000	39.00	10.2	63	24.0	QP	N	GND
0.386000	40.80	10.2	58	17.2	QP	N	GND
0.412000	39.20	10.2	57	17.8	QP	N	GND
1.566000	30.40	10.3	56	25.6	QP	N	GND
29.834000	32.90	11.3	60	27.1	QP	N	GND

MEASUREMENT RESULT: "RIC01103124_fin2"

1/14/2013 3:38PM

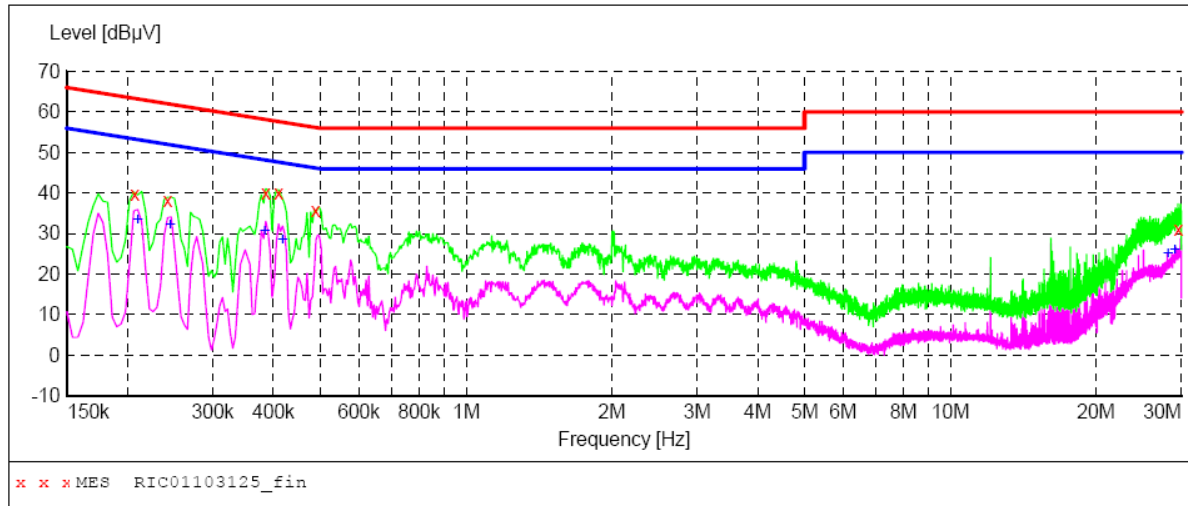
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000	29.80	10.2	53	23.2	AV	N	GND
0.218000	29.80	10.2	53	23.2	AV	N	GND
0.386000	29.70	10.2	48	18.3	AV	N	GND
0.416000	28.60	10.2	47	18.4	AV	N	GND
0.491000	23.60	10.2	46	22.4	AV	N	GND
16.130000	17.30	10.7	50	32.7	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 3:19:18PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103125_fin"

1/14/2013 3:32PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.207000	39.80	10.2	63	23.2	QP	L1	GND
0.242000	38.00	10.2	58	20.0	QP	L1	GND
0.386000	40.00	10.2	58	18.0	QP	L1	GND
0.410000	40.00	10.2	57	17.0	QP	L1	GND
0.489000	35.70	10.2	57	21.3	QP	L1	GND
29.558000	31.00	11.3	60	29.0	QP	L1	GND

MEASUREMENT RESULT: "RIC01103125_fin2"

2/1/2013 3:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.210000	33.40	10.2	53	19.6	AV	L1	GND
0.245000	32.20	10.2	53	20.7	AV	L1	GND
0.384000	30.90	10.2	48	17.1	AV	L1	GND
0.418000	28.70	10.2	48	19.3	AV	L1	GND
28.124000	25.20	11.2	50	24.8	AV	L1	GND
29.094000	26.20	11.2	50	23.8	AV	L1	GND

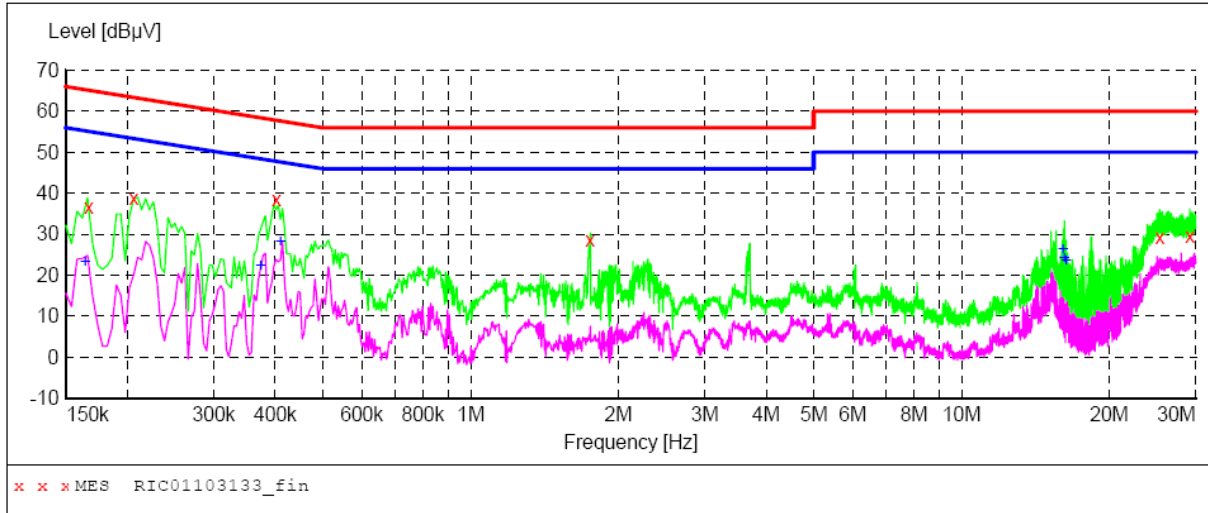
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 4:12:37PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103133_fin"

1/14/2013 5:10PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.167000	36.70	10.2	65	28.3	QP	N	GND
0.206000	38.70	10.2	64	25.3	QP	N	GND
0.402000	38.30	10.2	58	19.7	QP	N	GND
1.750000	28.50	10.3	56	27.5	QP	N	GND
25.314000	29.30	11.1	60	30.7	QP	N	GND
29.170000	29.40	11.2	60	30.6	QP	N	GND

MEASUREMENT RESULT: "RIC01103133_fin2"

1/14/2013 4:24PM

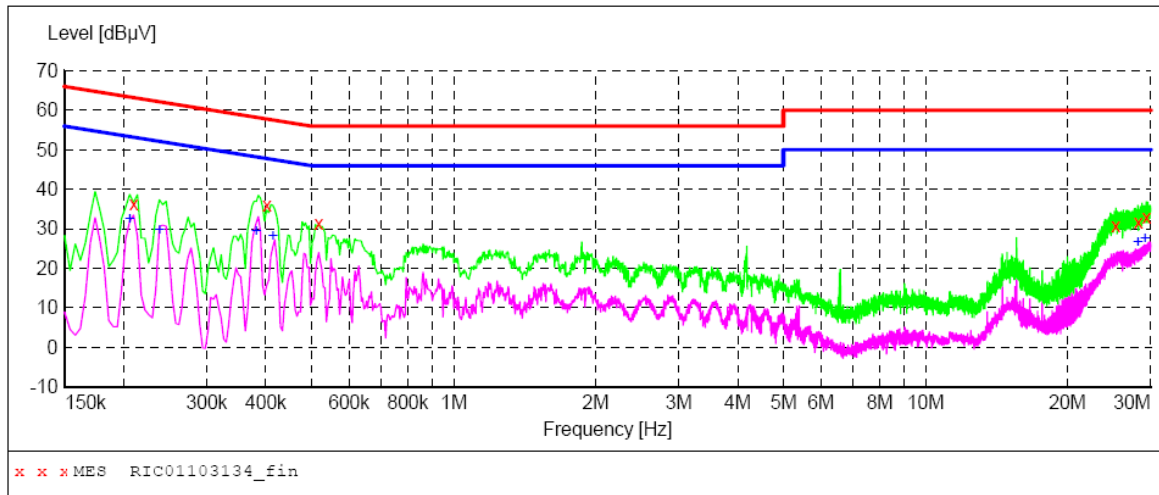
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.164000	23.30	10.2	48	24.7	AV	N	GND
0.374000	22.30	10.2	48	25.7	AV	N	GND
0.410000	28.30	10.2	48	19.7	AV	N	GND
16.086000	26.50	10.7	50	23.5	AV	N	GND
16.174000	24.40	10.7	50	25.6	AV	N	GND
16.322000	23.50	10.7	50	26.5	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 4:16:13PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103134_fin"

1/14/2013 4:21PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.210000	36.30	10.2	63	26.7	QP	L1	GND
0.402000	36.10	10.2	58	21.9	QP	L1	GND
0.518000	31.40	10.2	56	24.6	QP	L1	GND
25.282000	30.90	11.1	60	29.1	QP	L1	GND
28.194000	31.80	11.2	60	28.2	QP	L1	GND
29.362000	32.90	11.3	60	27.1	QP	L1	GND

MEASUREMENT RESULT: "RIC01103134_fin2"

2/1/2013 3:38PM

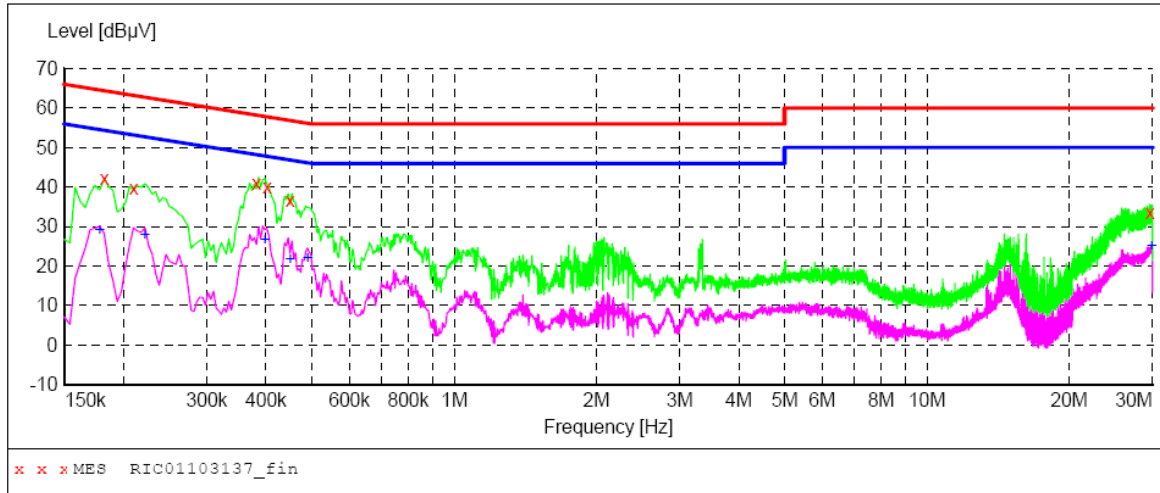
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.206000	32.70	10.2	53	20.3	AV	L1	GND
0.238000	29.90	10.2	52	22.1	AV	L1	GND
0.382000	29.50	10.2	48	18.5	AV	L1	GND
0.414000	28.30	10.2	48	19.7	AV	L1	GND
28.154000	26.60	11.2	50	23.4	AV	L1	GND
29.154000	27.60	11.2	50	22.4	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 4:33:05PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103137_fin"

1/14/2013 5:05PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.182000	42.20	10.2	64	11.8	QP	N	GND
0.210000	39.80	10.2	64	24.2	QP	N	GND
0.382000	41.00	10.2	58	17.0	QP	N	GND
0.402000	39.90	10.2	58	18.1	QP	N	GND
0.450000	36.60	10.2	58	21.4	QP	N	GND
29.606000	33.60	11.3	60	26.4	QP	N	GND

MEASUREMENT RESULT: "RIC01103137_fin2"

1/14/2013 5:01PM

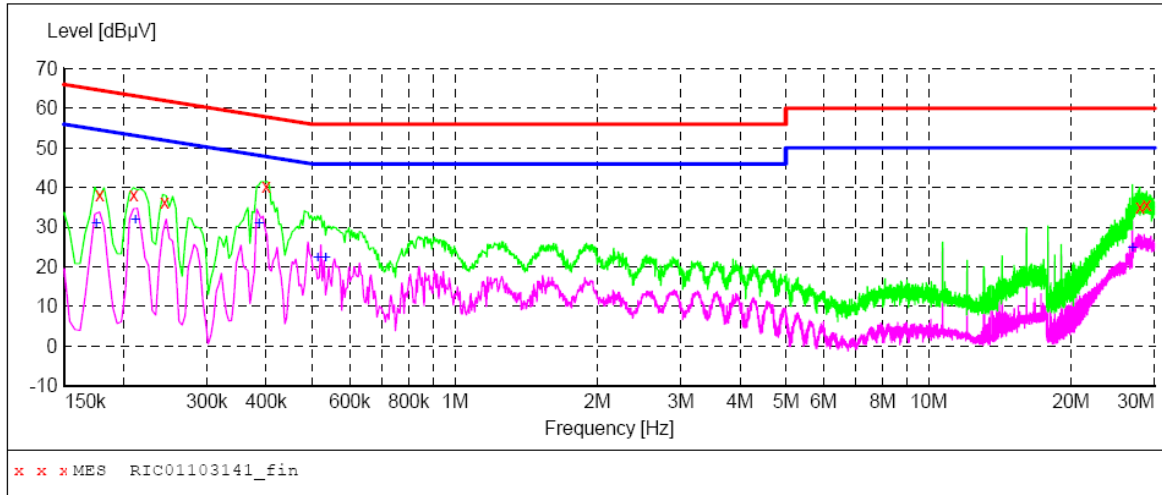
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	29.10	10.2	55	25.9	AV	N	GND
0.222000	27.90	10.2	53	25.1	AV	N	GND
0.398000	26.80	10.2	48	21.2	AV	N	GND
0.450000	21.70	10.2	47	25.3	AV	N	GND
0.490000	22.10	10.2	46	23.9	AV	N	GND
29.830000	25.20	11.3	50	24.8	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 5:10:49PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103141_fin"

1/14/2013 6:02PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	38.20	10.2	60	21.8	QP	L1	GND
0.210000	38.10	10.2	58	19.9	QP	L1	GND
0.244000	36.20	11.2	60	23.8	QP	L1	GND
0.400000	40.40	11.2	60	19.6	QP	L1	GND
27.918000	35.20	11.2	60	24.8	QP	L1	GND
28.854000	35.60	11.2	60	24.4	QP	L1	GND

MEASUREMENT RESULT: "RIC01103141_fin2"

1/14/2013 5:59PM

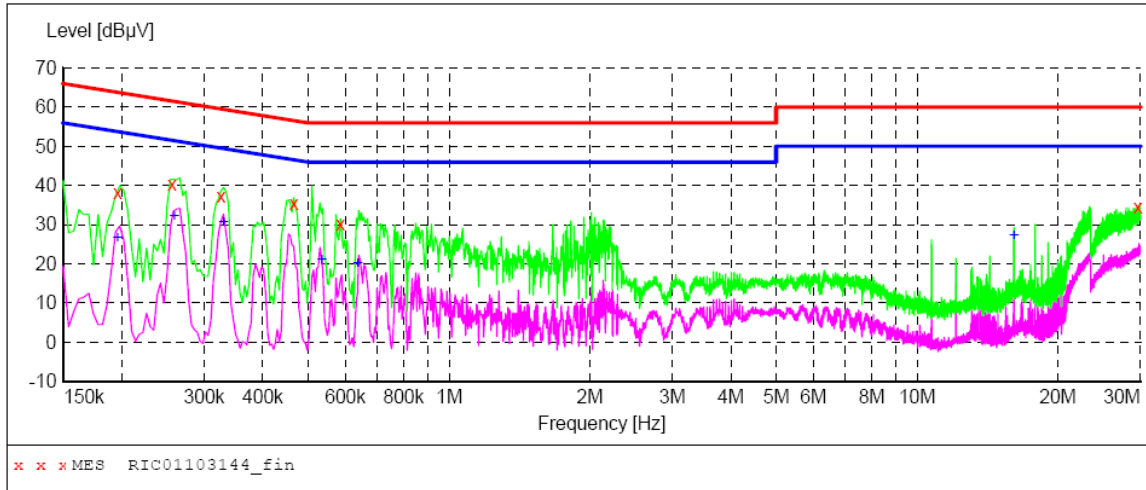
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	31.20	10.2	53	21.8	AV	L1	GND
0.212000	31.90	10.2	53	21.1	AV	L1	GND
0.386000	31.10	10.2	48	16.9	AV	L1	GND
0.514000	22.40	10.2	46	23.6	AV	L1	GND
0.534000	22.30	10.2	46	23.7	AV	L1	GND
26.954000	25.00	11.2	50	25.0	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 5:21:16PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103144_fin"

1/14/2013 5:44PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.196000	38.30	10.2	62	23.7	QP	N	GND
0.256000	40.30	10.2	62	21.7	QP	N	GND
0.326000	37.30	10.2	59	21.7	QP	N	GND
0.466000	35.50	10.2	56	20.7	QP	N	GND
0.586000	30.30	10.2	56	25.7	QP	N	GND
29.606000	34.30	10.2	56	21.7	QP	N	GND

MEASUREMENT RESULT: "RIC01103144_fin2"

1/14/2013 5:47PM

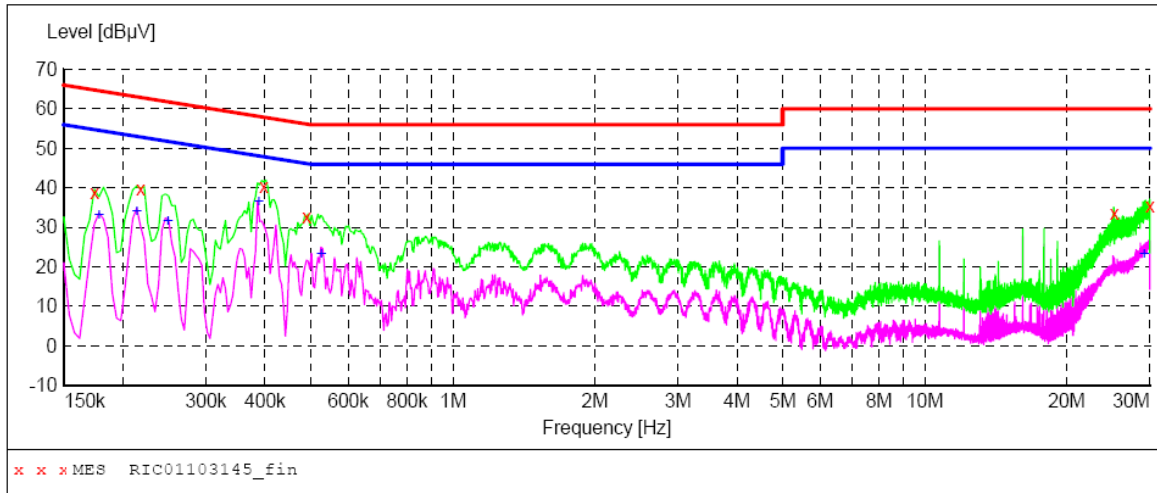
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.196000	26.70	10.2	52	25.3	AV	N	GND
0.259000	32.40	10.2	51	19.6	AV	N	GND
0.330000	30.90	10.2	48	17.1	AV	N	GND
0.535000	21.20	10.2	46	24.8	AV	N	GND
0.639000	20.30	10.2	46	25.7	AV	N	GND
16.130000	27.30	10.7	50	22.7	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: TX
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 5:25:05PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103145_fin"

1/14/2013 5:39PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	38.70	10.2	63	24.3	QP	L1	GND
0.218000	39.70	10.2	63	23.3	QP	L1	GND
0.398000	40.20	10.2	58	17.8	QP	L1	GND
0.490000	32.60	10.2	56	23.4	QP	L1	GND
25.190000	33.40	11.3	60	26.6	QP	L1	GND
29.990000	35.40	11.3	60	24.6	QP	L1	GND

MEASUREMENT RESULT: "RIC01103145_fin2"

2/1/2013 3:33PM

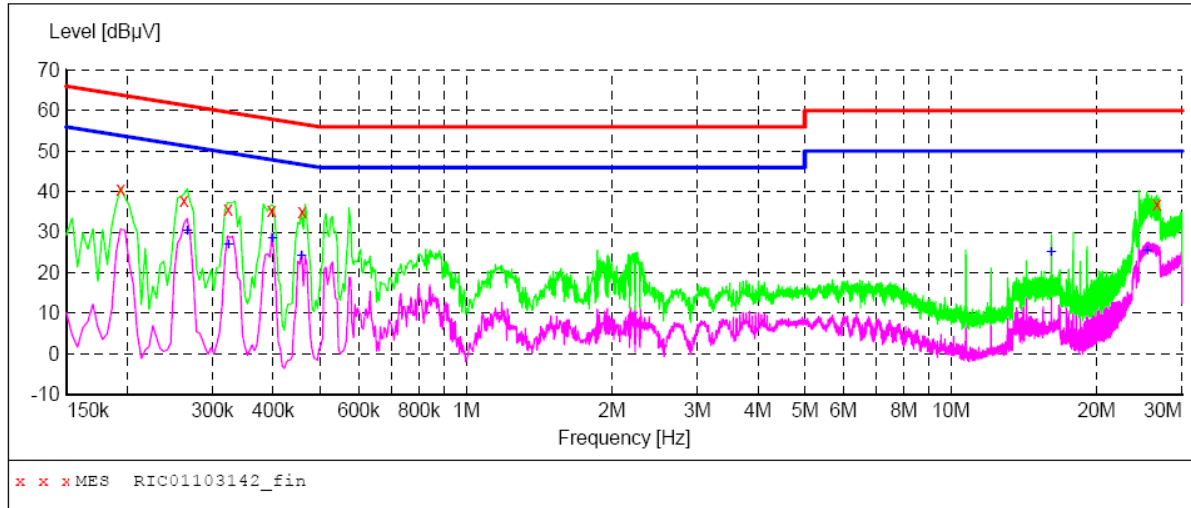
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	33.20	10.2	53	19.8	AV	L1	GND
0.214000	34.20	10.2	53	18.8	AV	L1	GND
0.249000	31.60	10.2	48	16.4	AV	L1	GND
0.388000	36.60	10.2	48	11.4	AV	L1	GND
0.526000	23.20	10.2	46	22.8	AV	L1	GND
29.156000	23.20	11.2	50	26.8	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 5:13:59PM

SCAN TABLE: "Voltage(150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103142_fin"

1/14/2013 5:51PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.194000	40.60	10.2	62	21.4	QP	N	GND
0.262000	38.00	10.2	57	19.0	QP	N	GND
0.323000	35.70	10.2	56	20.3	QP	N	GND
0.397000	35.50	11.1	60	24.5	QP	N	GND
0.459000	35.00	11.1	60	25.0	QP	N	GND
26.602000	37.00	11.2	60	23.0	QP	N	GND

MEASUREMENT RESULT: "RIC01103142_fin2"

1/14/2013 5:20PM

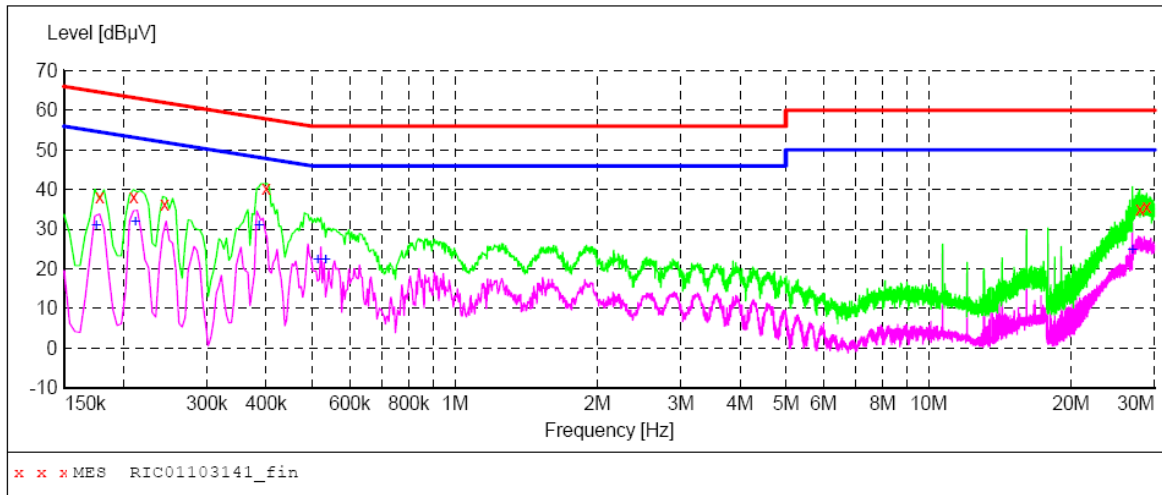
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.266000	30.60	10.2	52	21.4	AV	N	GND
0.324000	27.10	10.2	49	21.9	AV	N	GND
0.399000	28.50	10.2	48	19.5	AV	N	GND
0.458000	24.40	10.2	48	23.6	AV	N	GND
16.130000	25.30	10.7	50	24.7	AV	N	GND
25.462000	25.50	11.1	50	24.5	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 CLASS B

EUT: SP 204SFN
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3# SHIELDED ROOM
 Operator: tim
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 1/14/2013 / 5:10:49PM

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC01103141_fin"

1/14/2013 6:02PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	38.20	10.2	60	21.8	QP	L1	GND
0.210000	38.10	10.2	58	19.9	QP	L1	GND
0.244000	36.20	11.2	60	23.8	QP	L1	GND
0.400000	40.40	11.2	60	19.6	QP	L1	GND
27.918000	35.20	11.2	60	24.8	QP	L1	GND
28.854000	35.60	11.2	60	24.4	QP	L1	GND

MEASUREMENT RESULT: "RIC01103141_fin2"

1/14/2013 5:59PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	31.20	10.2	53	21.8	AV	L1	GND
0.212000	31.90	10.2	53	21.1	AV	L1	GND
0.386000	31.10	10.2	48	16.9	AV	L1	GND
0.514000	22.40	10.2	46	23.6	AV	L1	GND
0.534000	22.30	10.2	46	23.7	AV	L1	GND
26.954000	25.00	11.2	50	25.0	AV	L1	GND

5. External and Internal Photos of the EUT

5.1. External photos of the EUT

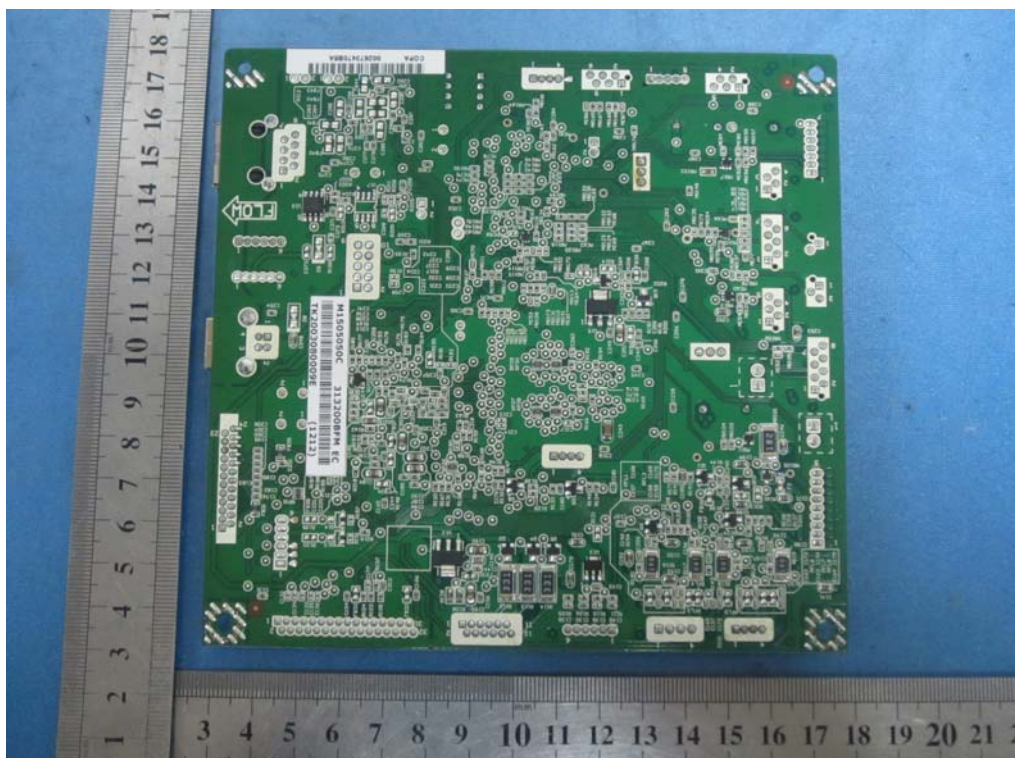
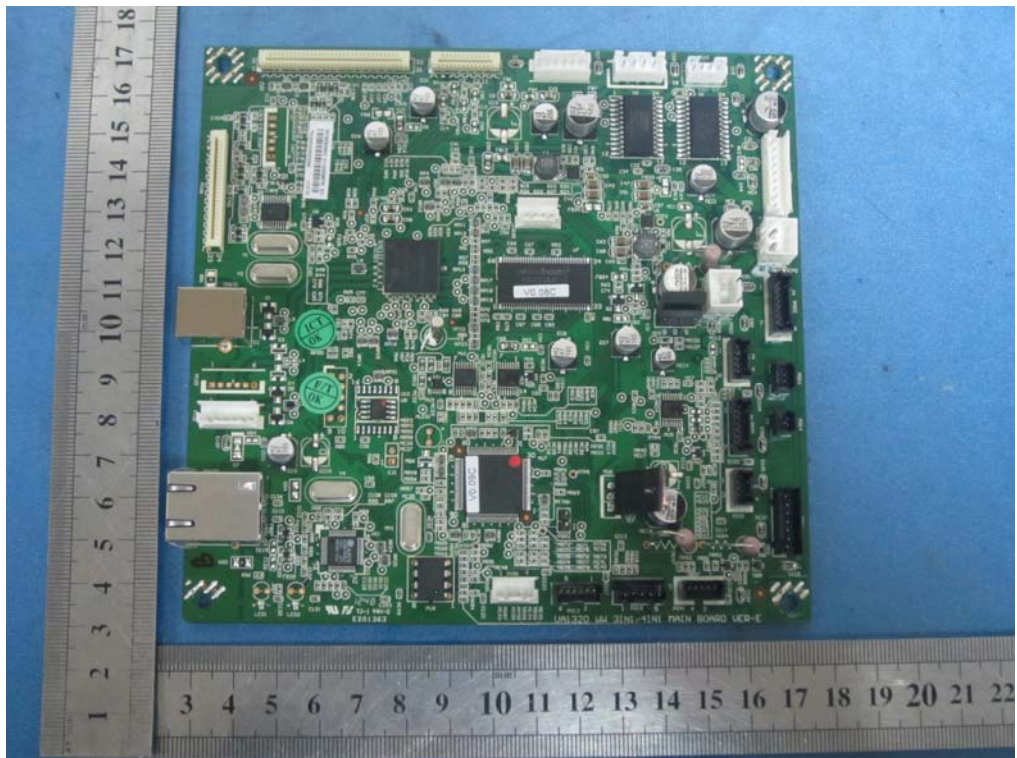


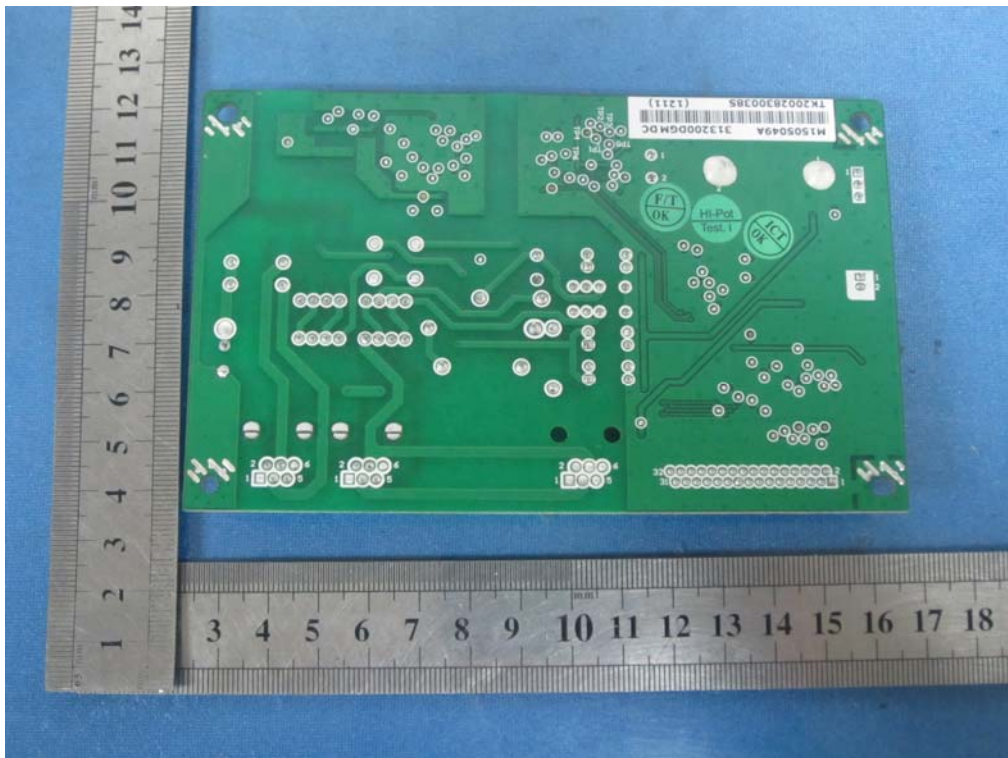
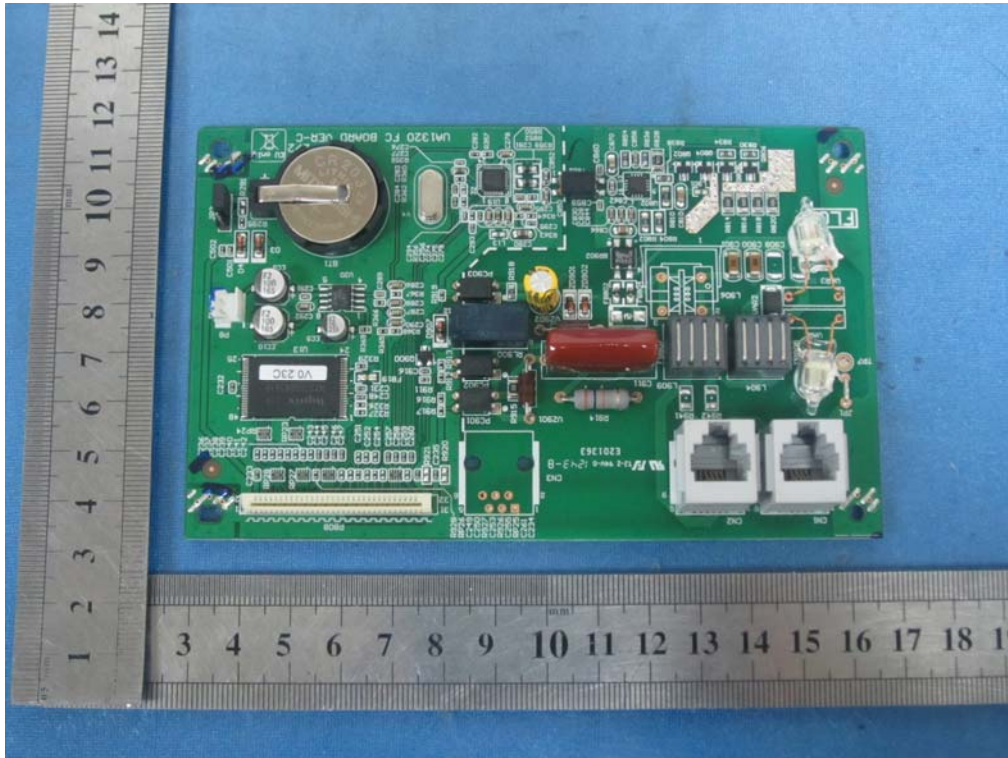


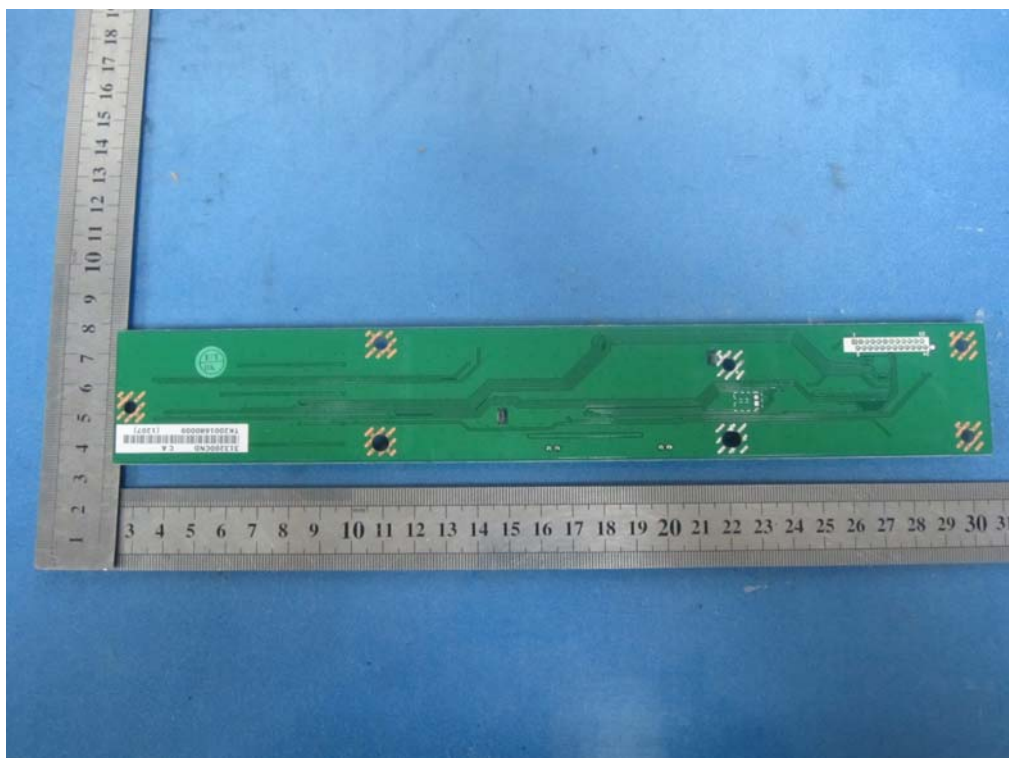
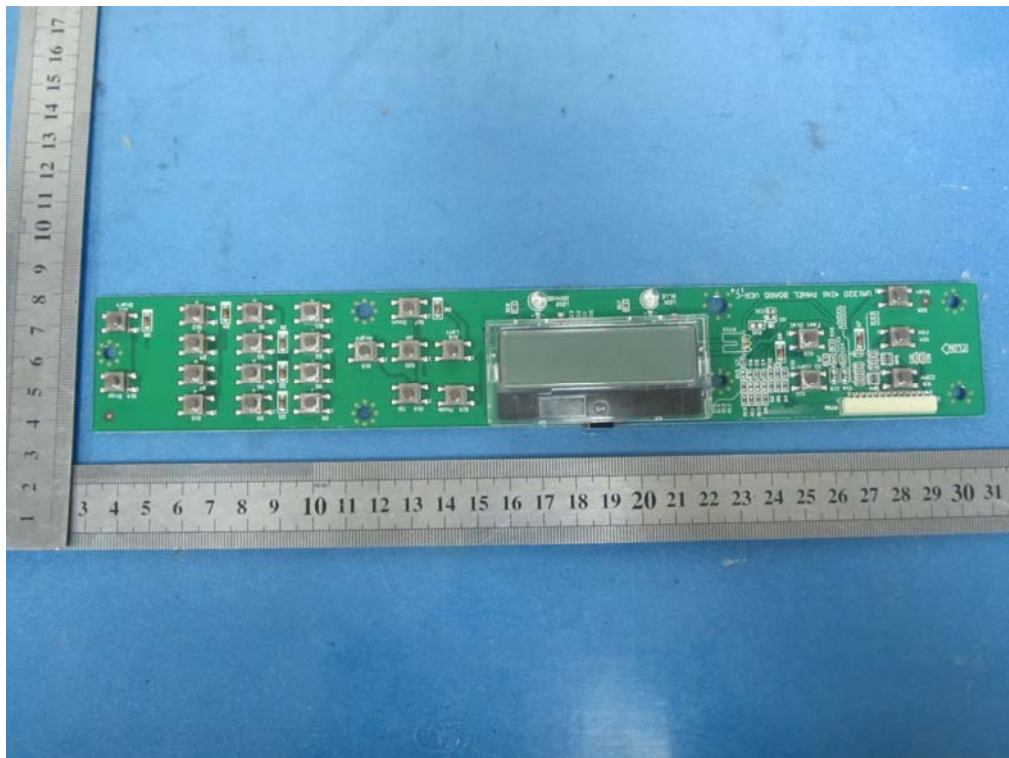


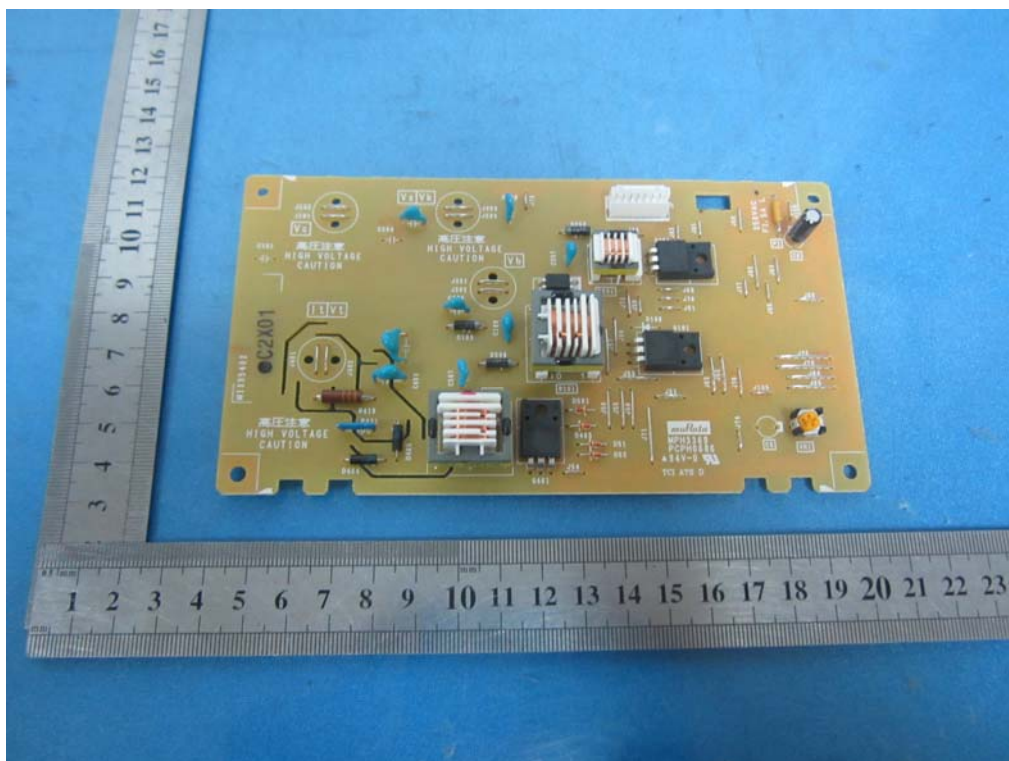
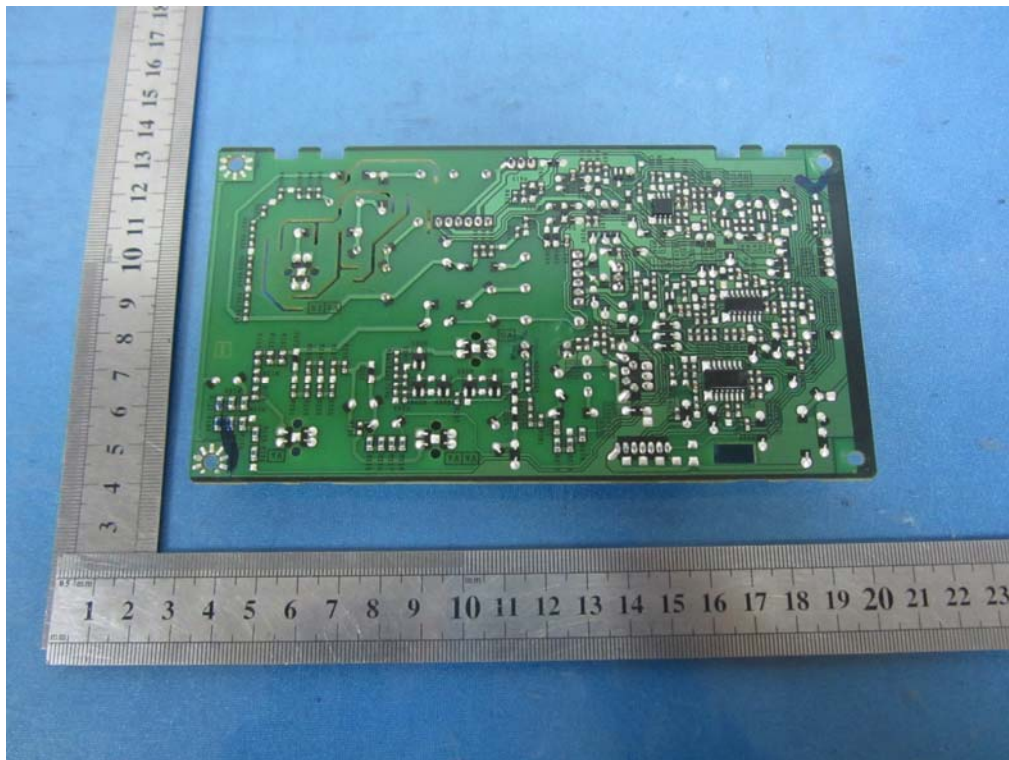
5.2. Internal photos of the EUT

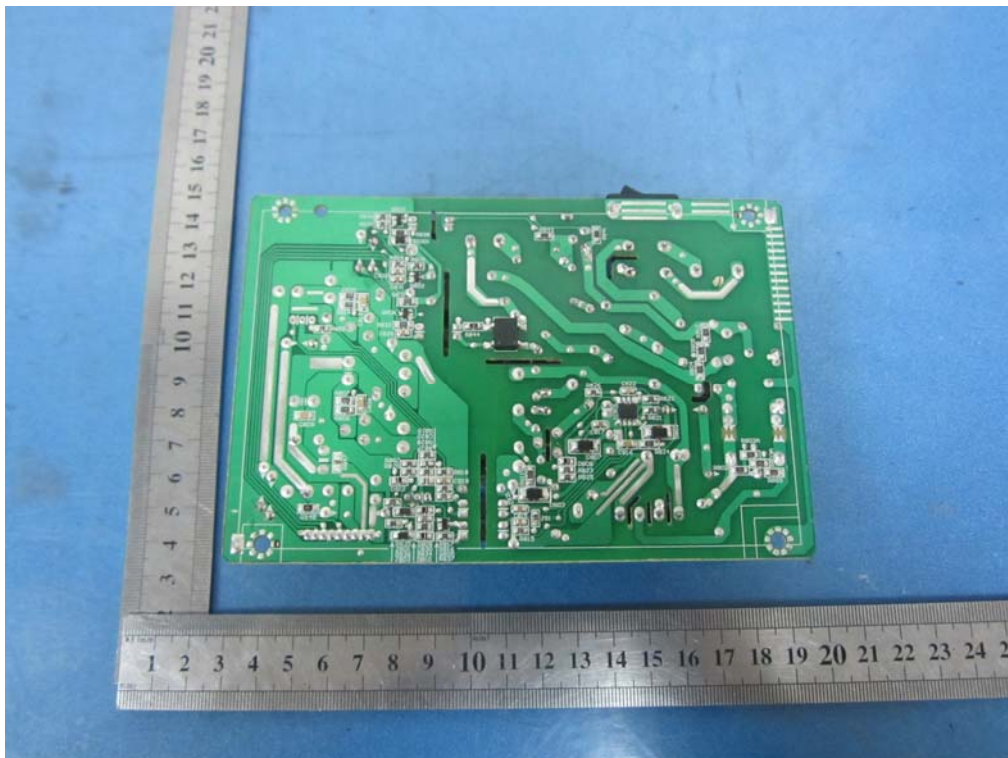


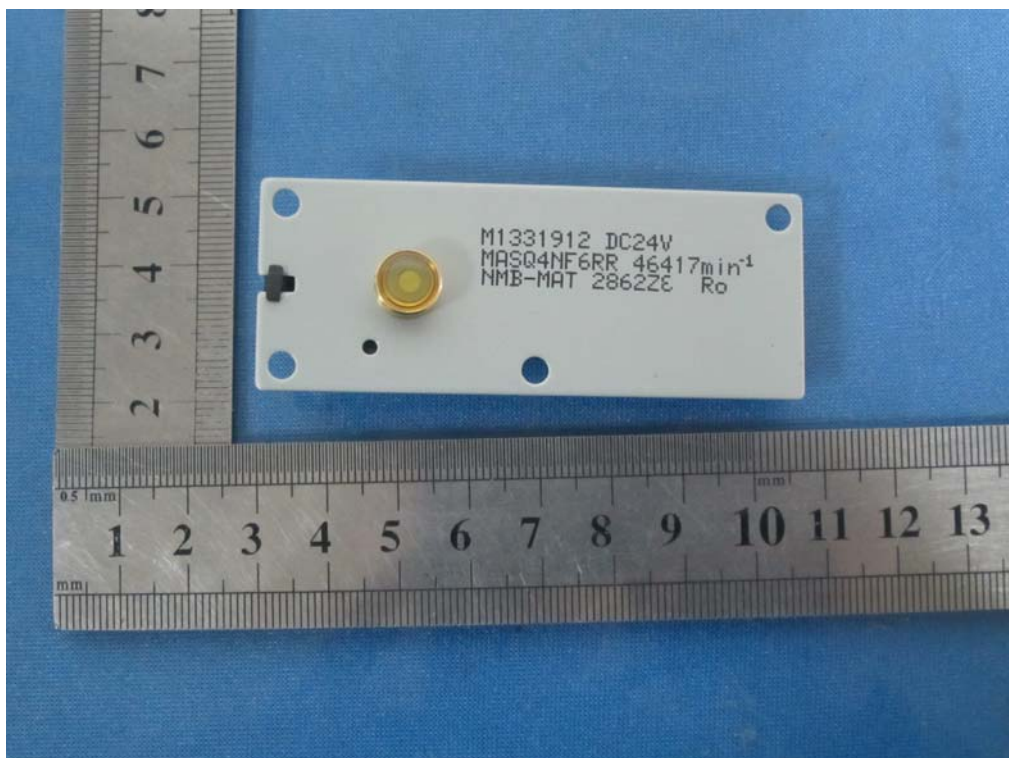
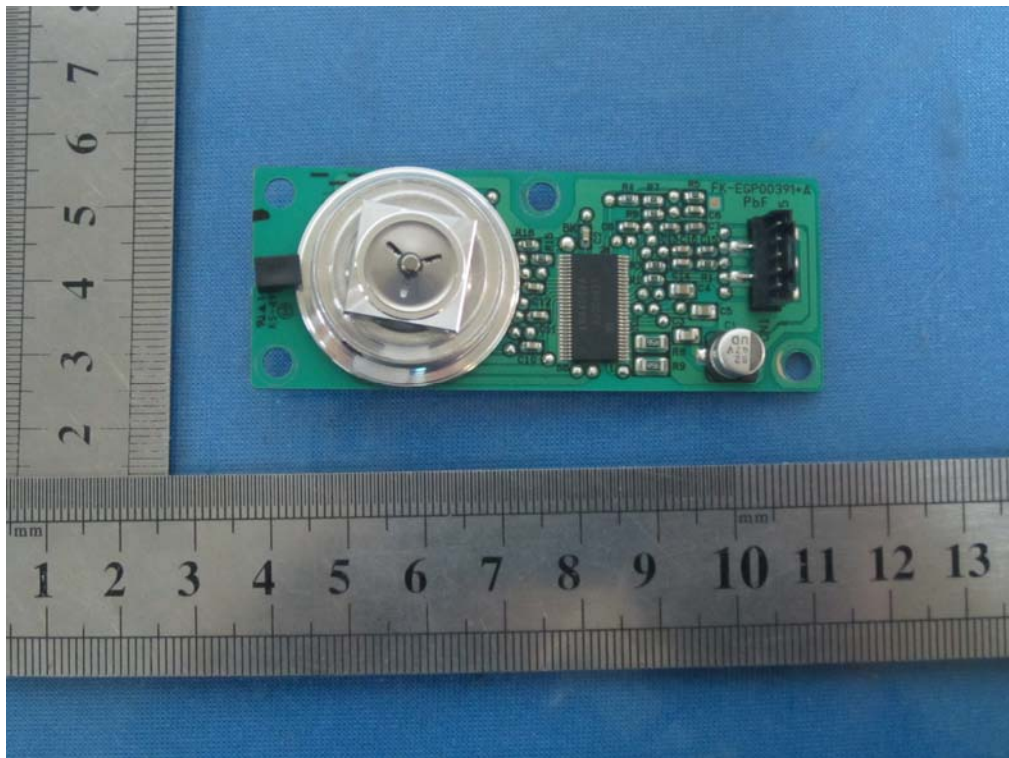


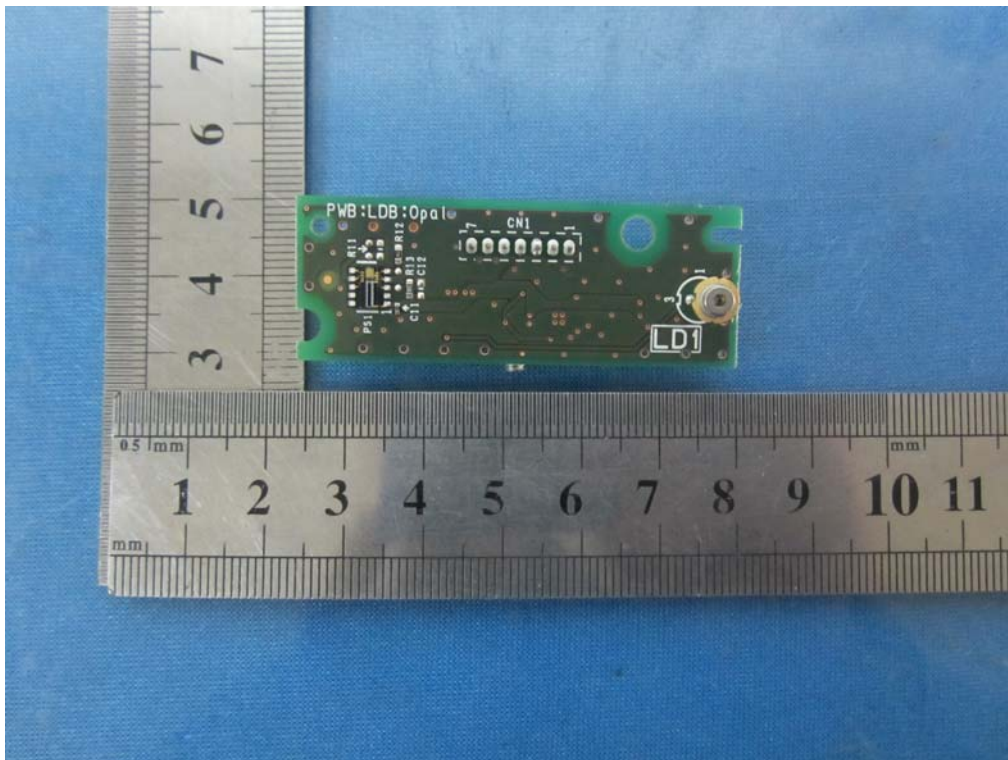
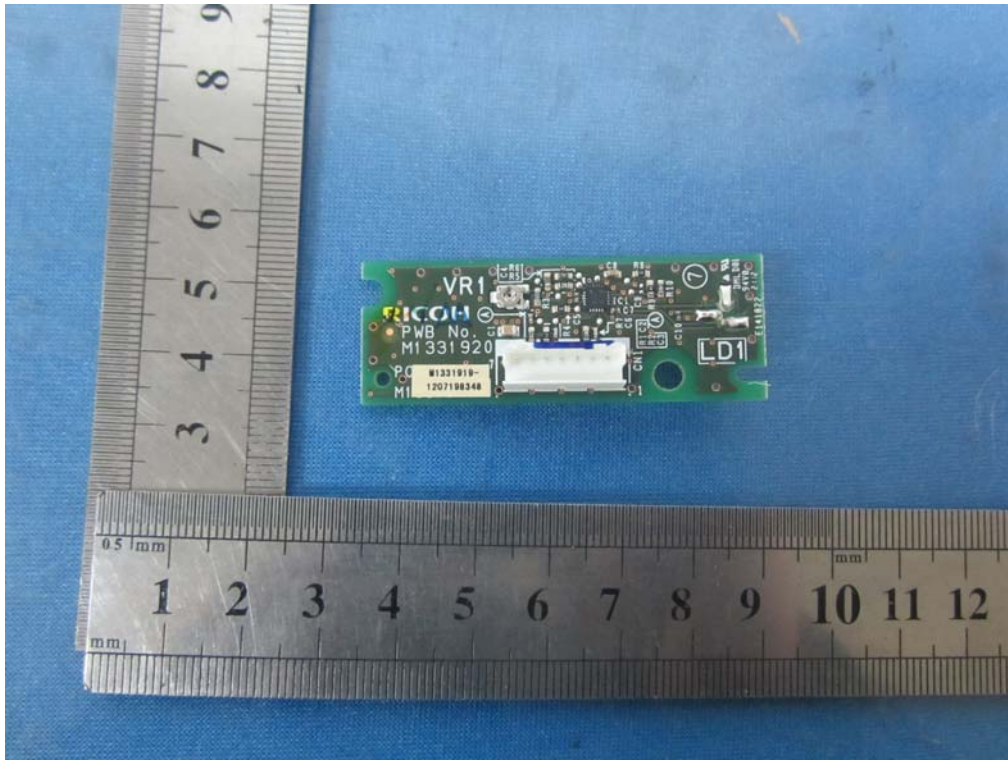


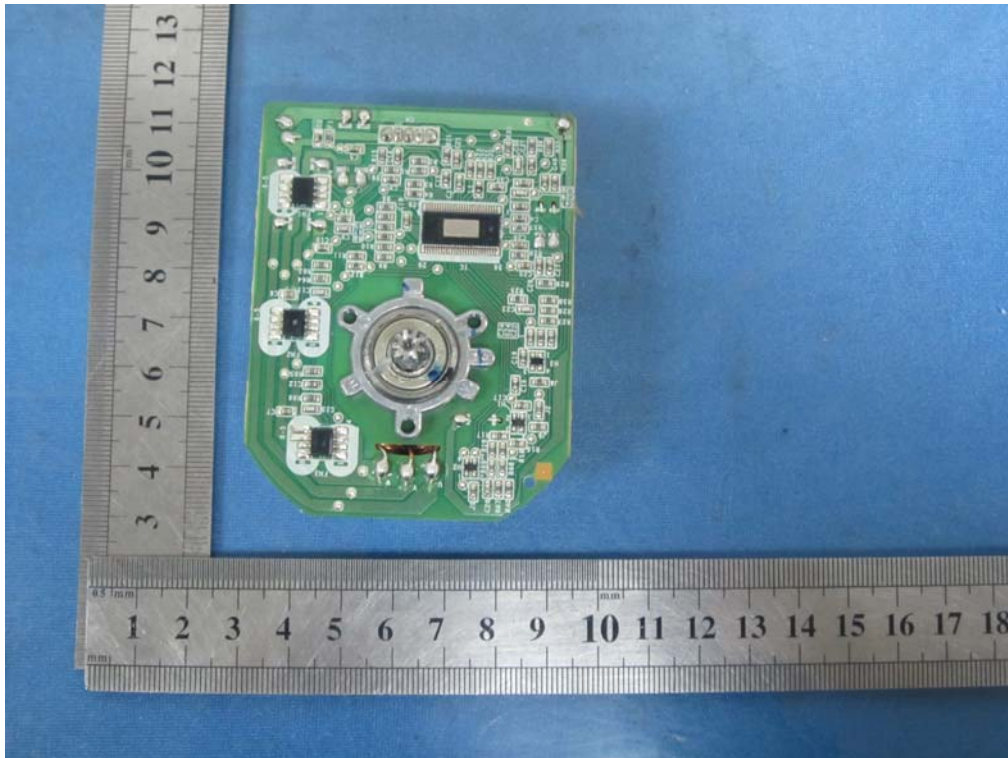












.....End of Report.....