



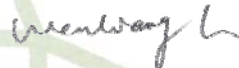
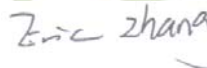

TEST REPORT

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.....	WE11070001
FCC ID.....	BBP-PRSP34101
Compiled by (position+printed name+signature)...	File administrators Wenliang Li 
Supervised by (position+printed name+signature)...	Test Engineer Eric Zhang 
Approved by (position+printed name+signature)...	Manager Jeffrey Lu 
Date of issue.....	Jul 13, 2011
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 <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing methods <input type="checkbox"/>
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	Laser Printer
Trade Mark	/
Manufacturer	Ricoh Component s & Products(Shenzhen)Ltd.
Model/Type reference.....	Aficio SP 3400N, SP 3400N/Aficio SP 3400N, Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN
Listed Model.....	/
Ratings	120V 60Hz 10A 850W
Result.....	Positive

EMC -- TEST REPORT

Test Report No. : WE11070001	Jul 13, 2011 <hr style="border: 0; border-top: 1px solid black;"/> Date of issue
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Equipment under Test : Laser Printer

Model / Type : Aficio SP 3400N, SP 3400N/Aficio SP 3400N, Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN

Listed Model : /

Applicant : Ricoh Company Ltd

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

Manufacturer : Ricoh Component s & Products(Shenzhen)Ltd.

Address : RICOH industry group, HaoYe Road, Heping Community, Fuyong Town,Baoan District, Shenzhen, Guangdong, 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 : Jul 06, 2011

Testing commenced on : Jul 06, 2011

Testing concluded on : Jul 13, 2011

Note: The test report adds the Conducted Emission and Radiated Emission test results based on the Test Report No.:TRE09090026 and WE10120001.

2.2. Equipment under Test

Power supply system utilised

- Power supply voltage :
 - 230V / 50 Hz
 - 115V / 60Hz
 - 12 V DC
 - 24 V DC
 - Other (specified in blank below)

AC 120V/60Hz

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

The EUT is a Laser Printer, models Aficio SP 3400N, SP 3400N/Aficio SP 3400N were similar to Models Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN, except Models Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN employed additional Duplex motor for duplex side printing function.

Series number: Prototype

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.

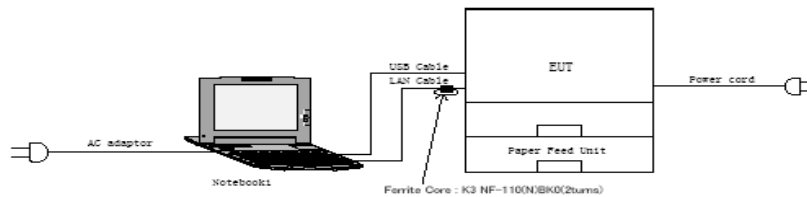
2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

- Option for EUT
 - Manufacturer : RICOH
 - M/N : Paper Feed Unit TK1080
 - S/N: : M3551700001
- Notebook
 - Manufacturer : Lenovo
 - M/N : ThinkPad X201i
 - S/N: : R8-7DYTX 10/11
 - LITE-ON TECHNOLOGY
- Adaptor
 - Manufacturer : (GUANGZHOU) CO.,LTD
 - Model No. : 42T4416

Photos of the EUT configuration:



2.6. Cables used

Cable Name	Length	Shielded	Ferrite	Maker
AC cable	2m	No	No	Volex
NIC Cable(LAN Cable)	3m	No	K3 NF-110(N)BK0	Black Box
USB cable	2m	Yes	No	RICOH

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 30, 2009. Valid time is until Mar 29, 2012.

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, 2011.

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 Jun 30, 2012.

IC-Registration No.: 5377

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. 5377 on November 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 17025:2005 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the Authorization is valid through July 07, 2014.

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.: R-2484. Date of Registration: December 20, 2006. Valid time is until December 20, 2012.

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: December 20, 2006. Valid time is until December 19, 2012.

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	2011/05/30
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2010/10/24
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2010/10/24
4	TURNTABLE	ETS	2088	2149	2010/10/24
5	ANTENNA MAST	ETS	2075	2346	2010/10/24
6	EMI TEST SOFTWARE	Rohde & Schwarz	ESK1	N/A	2010/10/24
7	Double-Ridged-Waveguide Horn Antenna	Rohde & Schwarz	HF906	100039	2010/10/24
8	Semi-anechoic chamber	ETS-LINDGREN	AJ 593 HTW	N/A	2011/06/12

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde & Schwarz	ESCS30	100038	2010/10/24
2	Artificial Mains	Rohde & Schwarz	ESH2-Z5	100028	2010/10/24
3	Artificial Mains	Rohde & Schwarz	ESH3-Z5	100040	2010/10/24
4	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100044	2010/10/24
5	EMI Test Software	Rohde & Schwarz	ESK1	N/A	2010/10/24
6	3# shielded room	ETS-LINDGREN	RFD-100	2406	N/A

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	74	
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 295MHz, so the measurement was made up to 2 GHz.

4.1.3. Description of the test set-up

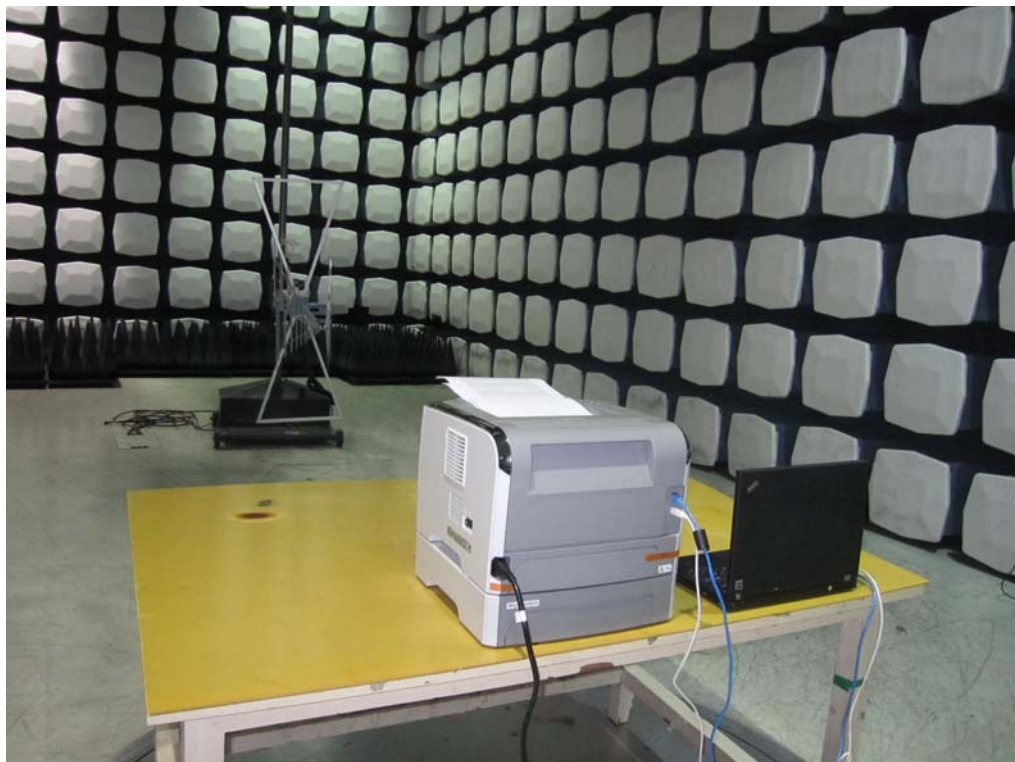
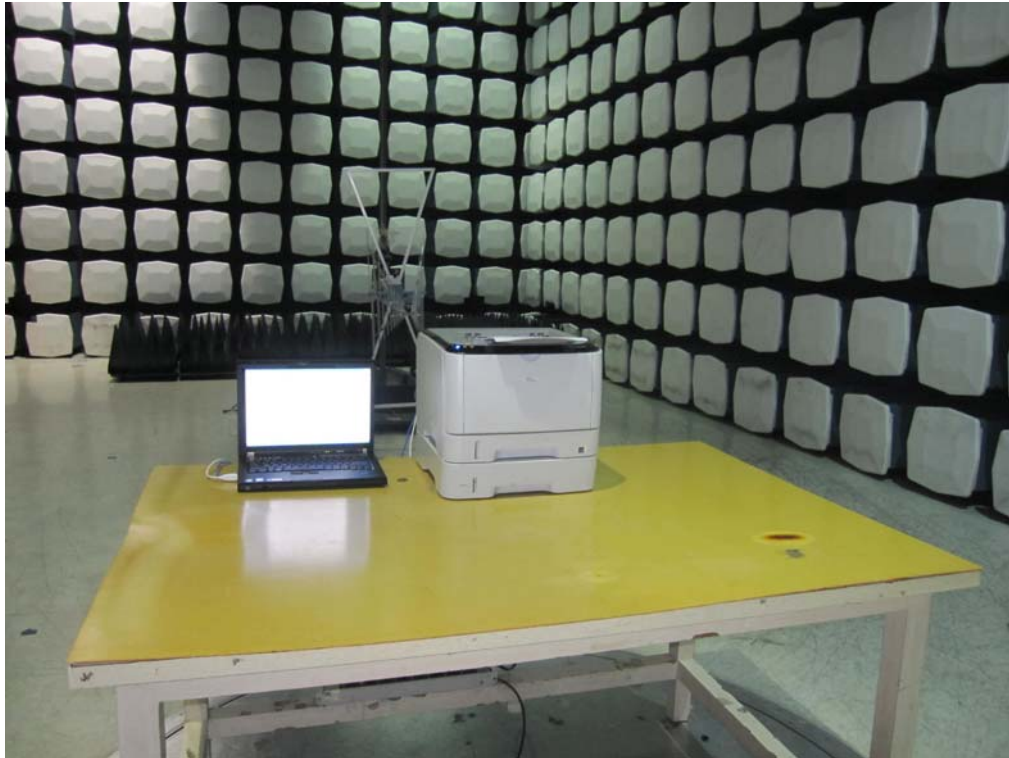
4.1.3.1. Operating Condition

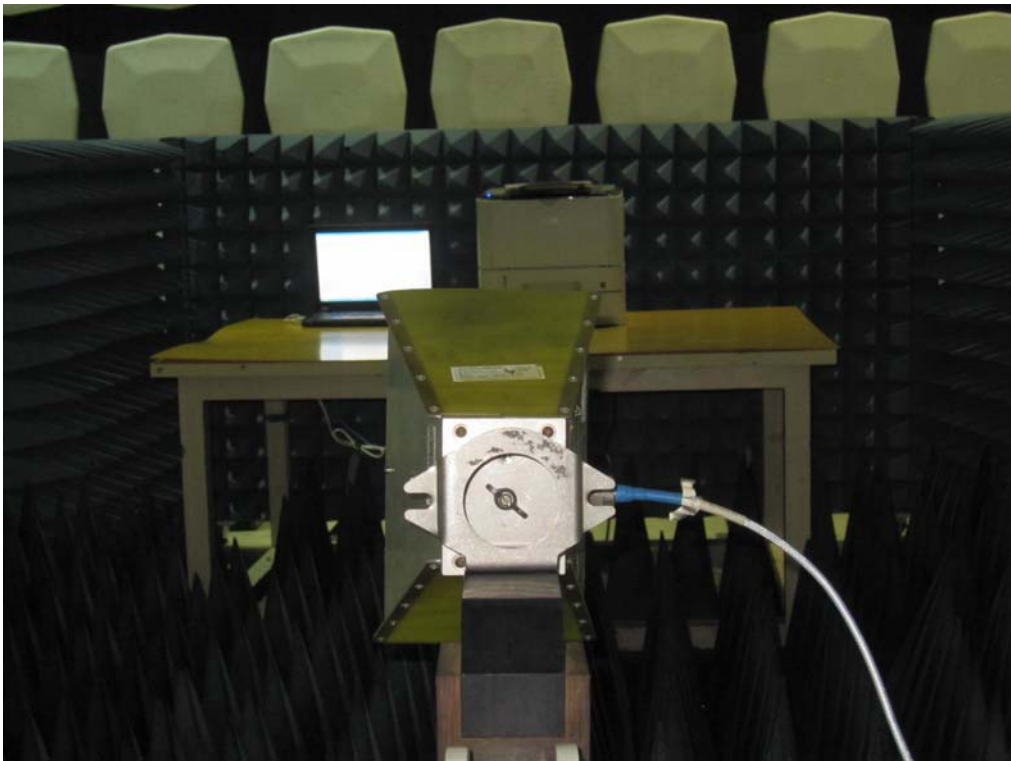
The EUT is set to work that shall be carried out respectively standby, USB print and NIC print modes during the test and the results of the maximum emanation are recorded.

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

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

Margin=limit-level

Level=read value+transducer

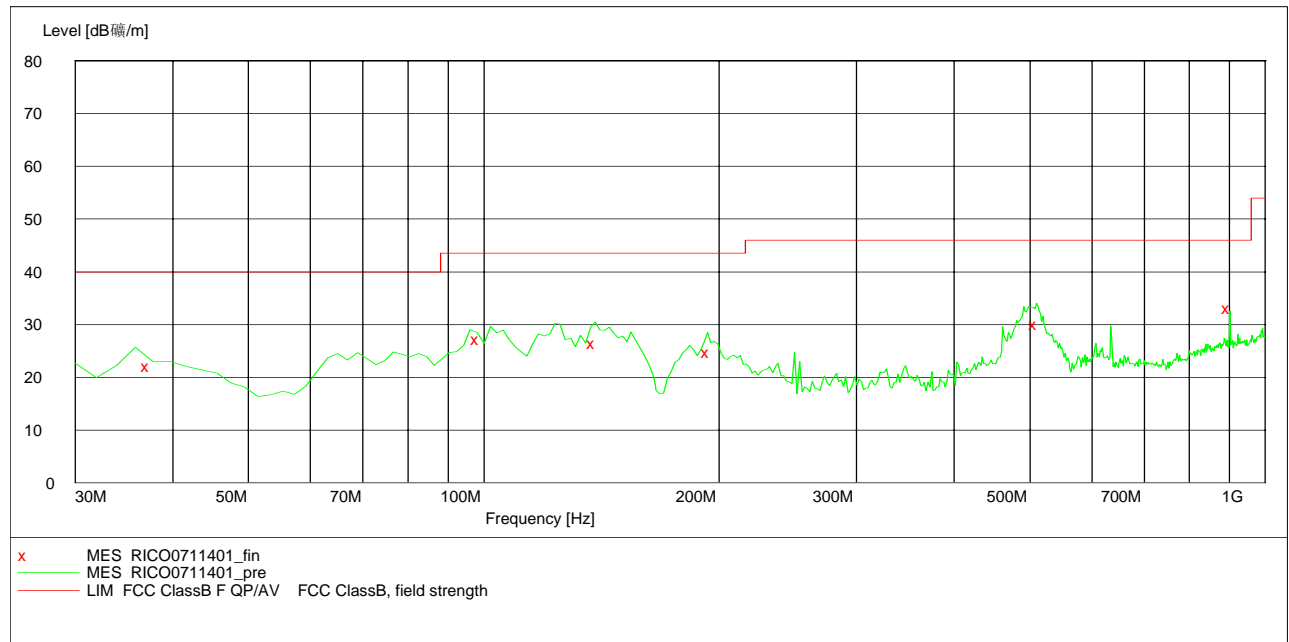
Transducer=antenna factor+pre-amplifier factor+cable loss (with 6db attenuator)

For 30MHz-1000MHz

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	900.00	33.00	Vertical	46.00	-7.60	13.00	100	237	QP
Test Results				Pass					

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 2011



MEASUREMENT RESULT: "RICO0711401_fin"

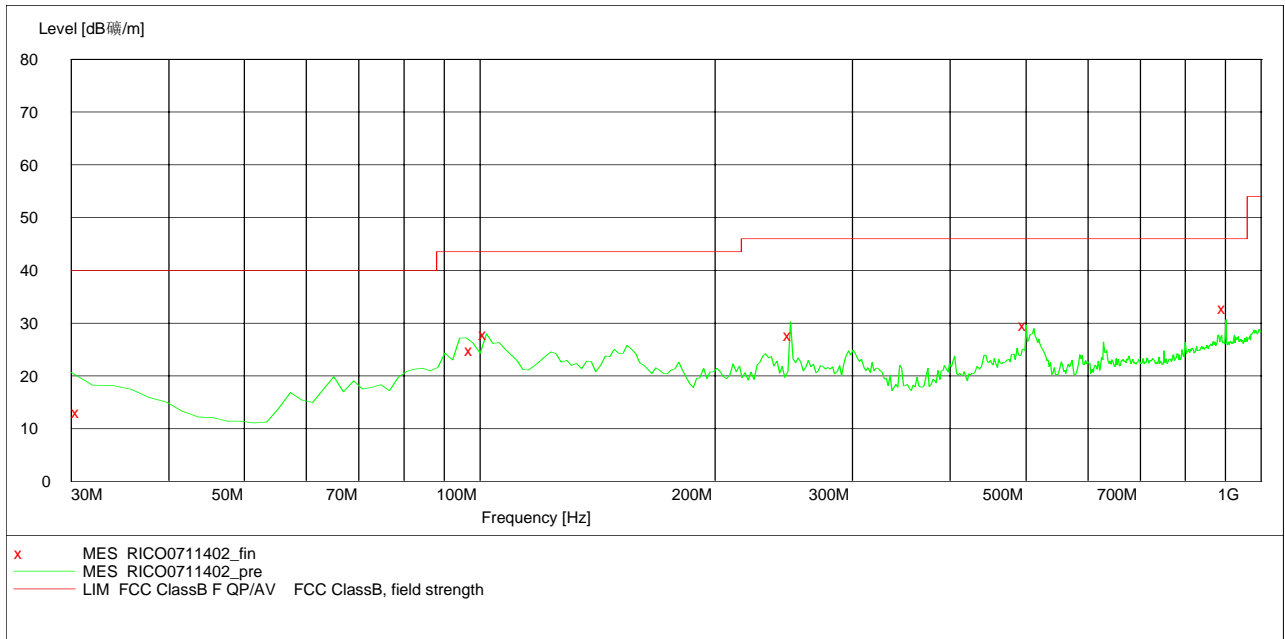
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Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
37.260000	22.10	-15.2	40.0	17.9	QP	100.0	187.00	VERTICAL
98.400000	27.30	-20.4	43.5	16.2	QP	99.0	221.00	VERTICAL
138.600000	26.50	-21.9	43.5	17.0	QP	99.0	129.00	VERTICAL
194.040000	24.70	-22.5	43.5	18.8	QP	100.0	182.00	VERTICAL
509.760000	30.00	-14.2	46.0	16.0	QP	100.0	268.00	VERTICAL
900.000000	33.00	-7.6	46.0	13.0	QP	100.0	237.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	900.00	32.80	Horizontal	46.00	-7.60	13.20	130	255	QP
Test Results				Pass					

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 2011



MEASUREMENT RESULT: "RICO0711402_fin"

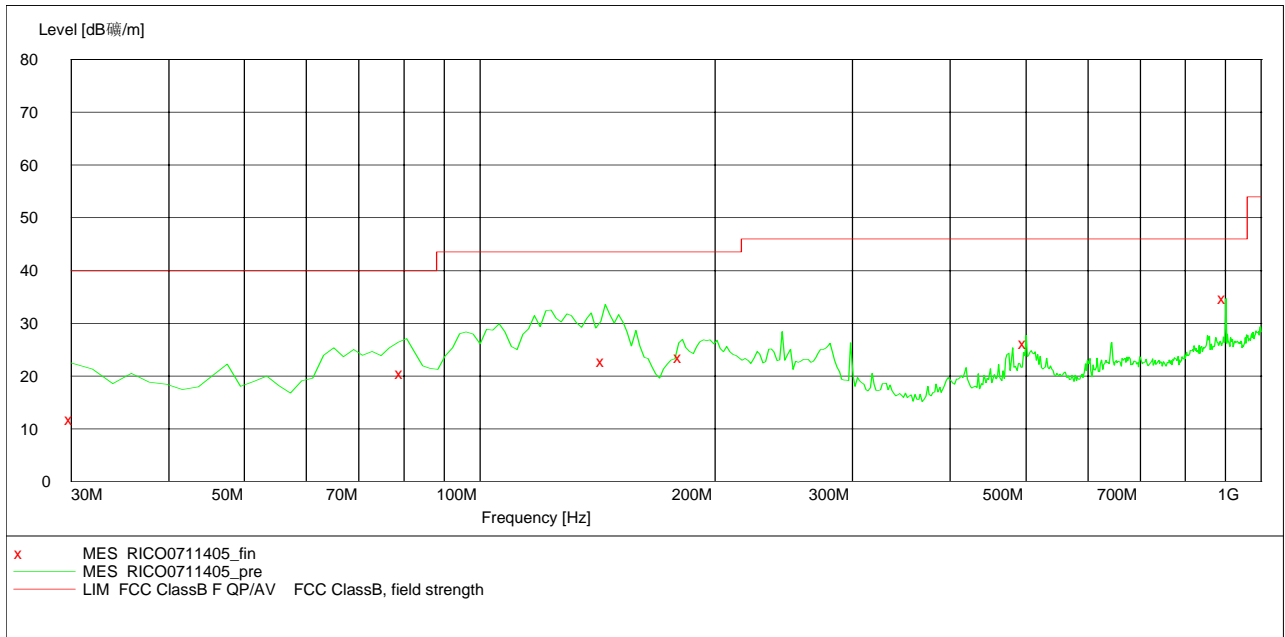
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Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
30.660000	13.00	-11.9	40.0	27.0	QP	250.0	151.00	HORIZONTAL
97.800000	24.80	-20.4	43.5	18.7	QP	350.0	310.00	HORIZONTAL
101.880000	27.90	-20.3	43.5	15.6	QP	350.0	289.00	HORIZONTAL
250.020000	27.60	-19.2	46.0	18.4	QP	115.0	223.00	HORIZONTAL
499.980000	29.50	-14.6	46.0	16.5	QP	100.0	171.00	HORIZONTAL
900.000000	32.80	-7.6	46.0	13.2	QP	130.0	255.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	900.00	34.80	Vertical	46.00	-7.60	11.20	127	247	QP
Test Results				Pass					

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 2011



MEASUREMENT RESULT: "RICO0711405_fin"

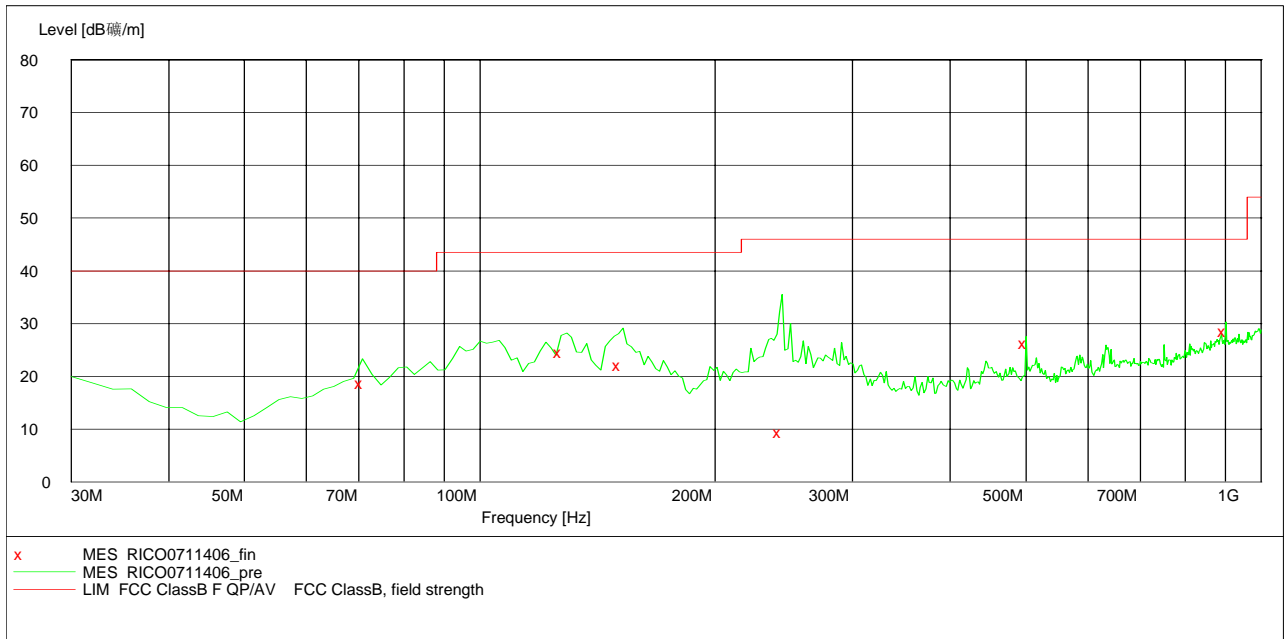
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Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
30.120000	11.80	-11.6	40.0	28.2	QP	100.0	278.00	VERTICAL
79.740000	20.50	-22.6	40.0	19.5	QP	144.0	288.00	VERTICAL
144.120000	22.90	-22.8	43.5	20.6	QP	131.0	275.00	VERTICAL
181.080000	23.60	-22.8	43.5	19.9	QP	100.0	331.00	VERTICAL
499.980000	26.30	-14.6	46.0	19.7	QP	100.0	275.00	VERTICAL
900.000000	34.80	-7.6	46.0	11.2	QP	127.0	247.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	900.00	28.60	Horizontal	46.00	-7.60	17.40	118	283	QP
Test Results				Pass					

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 2011



MEASUREMENT RESULT: "RICO0711406_fin"

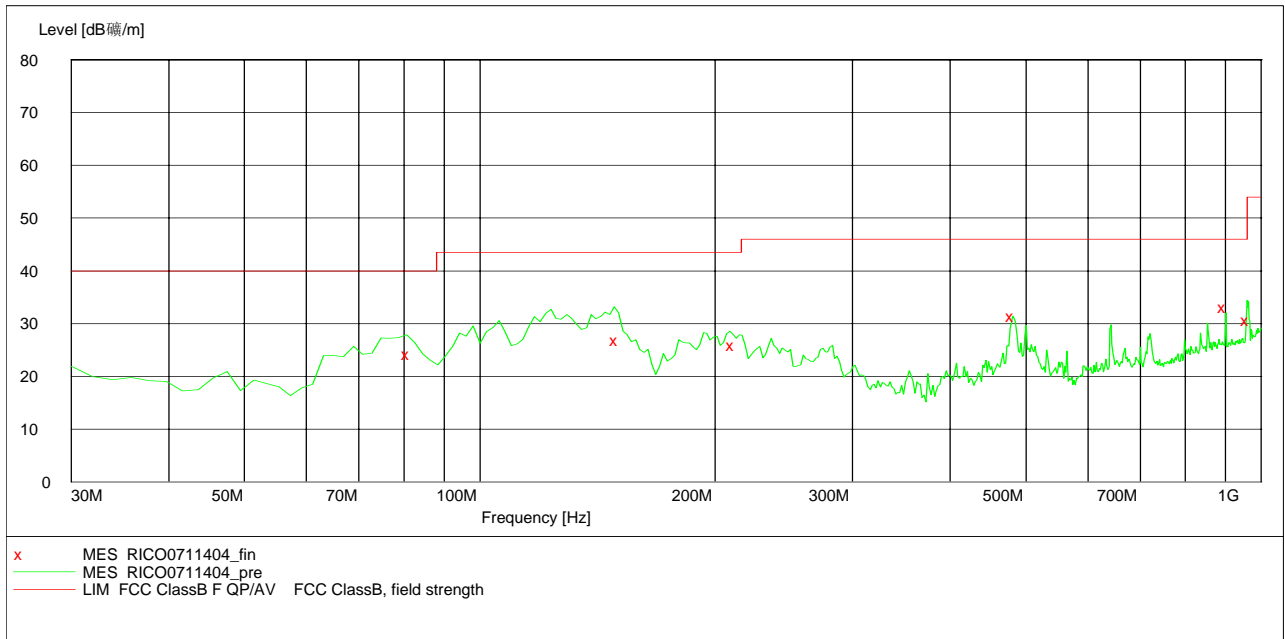
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Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
70.800000	18.80	-23.4	40.0	21.2	QP	250.0	170.00	HORIZONTAL
127.140000	24.50	-20.5	43.5	19.0	QP	268.0	28.00	HORIZONTAL
151.020000	22.20	-23.3	43.5	21.3	QP	100.0	126.00	HORIZONTAL
242.880000	9.40	-19.5	46.0	36.6	QP	100.0	135.00	HORIZONTAL
499.980000	26.30	-14.6	46.0	19.4	QP	100.0	175.00	HORIZONTAL
900.000000	28.60	-7.6	46.0	17.4	QP	118.0	283.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	900.00	32.20	Vertical	46.00	-7.60	12.8	119	312	QP
Test Results				Pass					

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 2011



MEASUREMENT RESULT: "RICO0711404_fin"

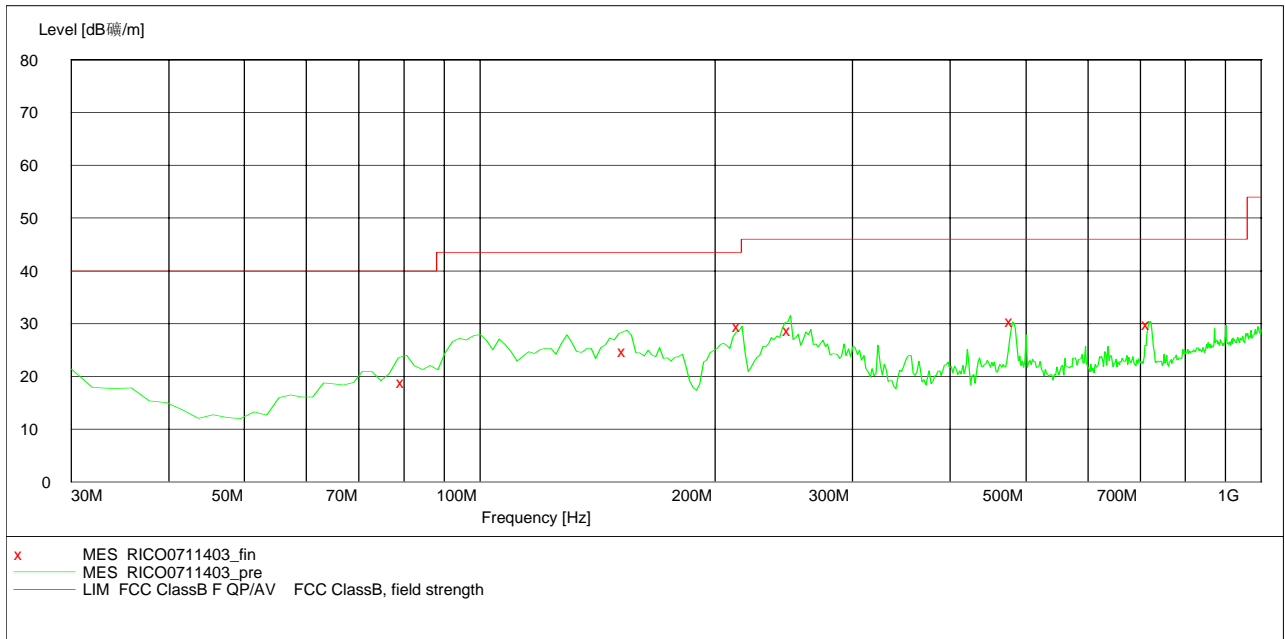
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Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
81.180000	24.30	-22.3	40.0	15.7	QP	100.0	234.00	VERTICAL
149.880000	26.90	-23.2	43.5	16.6	QP	100.0	121.00	VERTICAL
211.440000	25.80	-21.5	43.5	17.7	QP	100.0	0.00	VERTICAL
481.440000	31.40	-14.5	46.0	14.6	QP	100.0	172.00	VERTICAL
900.000000	33.20	-7.6	46.0	12.8	QP	119.0	312.00	VERTICAL
962.160000	30.70	-6.6	54.0	23.3	QP	100.0	200.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	215.10	29.50	Horizontal	43.50	-21.30	14.0	130	311	QP
Test Results				Pass					

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 2011



MEASUREMENT RESULT: "RICO0711403_fin"

7/11/2011 7:13PM

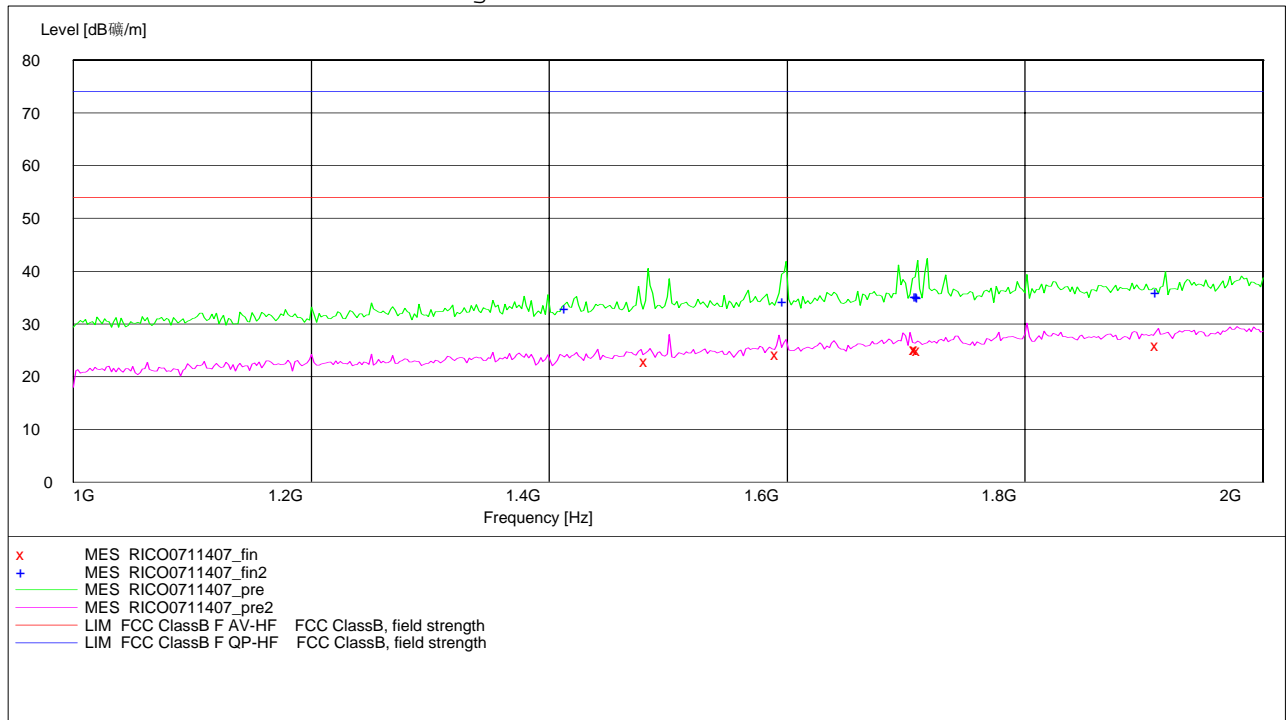
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
79.980000	18.90	-22.6	40.0	21.1	QP	296.0	191.00	HORIZONTAL
153.720000	24.80	-23.4	43.5	18.7	QP	99.0	58.00	HORIZONTAL
215.100000	29.50	-21.3	43.5	14.0	QP	130.0	311.00	HORIZONTAL
249.960000	28.80	-19.2	46.0	17.2	QP	100.0	292.00	HORIZONTAL
480.720000	30.40	-14.5	46.0	15.6	QP	150.0	264.00	HORIZONTAL
720.000000	29.90	-10.8	46.0	16.1	QP	100.0	226.00	HORIZONTAL

For 1000MHz-2000MHz

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	1912.00	26.00	Horizontal	54.00	-2.20	28.00	135	271	AV
Test Results				Pass					

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO0711407_fin"

7/11/2011 7:59PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1414.500000	32.90	-6.1	74.0	41.1	PK	100.0	195.00	HORIZONTAL
1594.500000	34.30	-5.1	74.0	39.7	PK	100.0	184.00	HORIZONTAL
1717.000000	35.20	-3.9	74.0	38.8	PK	100.0	274.00	HORIZONTAL
1708.500000	35.20	-3.9	74.0	38.8	PK	118.0	261.00	HORIZONTAL
1719.500000	35.00	-3.8	74.0	39.0	PK	100.0	261.00	HORIZONTAL
1918.000000	36.00	-2.2	74.0	38.0	PK	135.0	270.00	HORIZONTAL

MEASUREMENT RESULT: "RICO0711407_fin2"

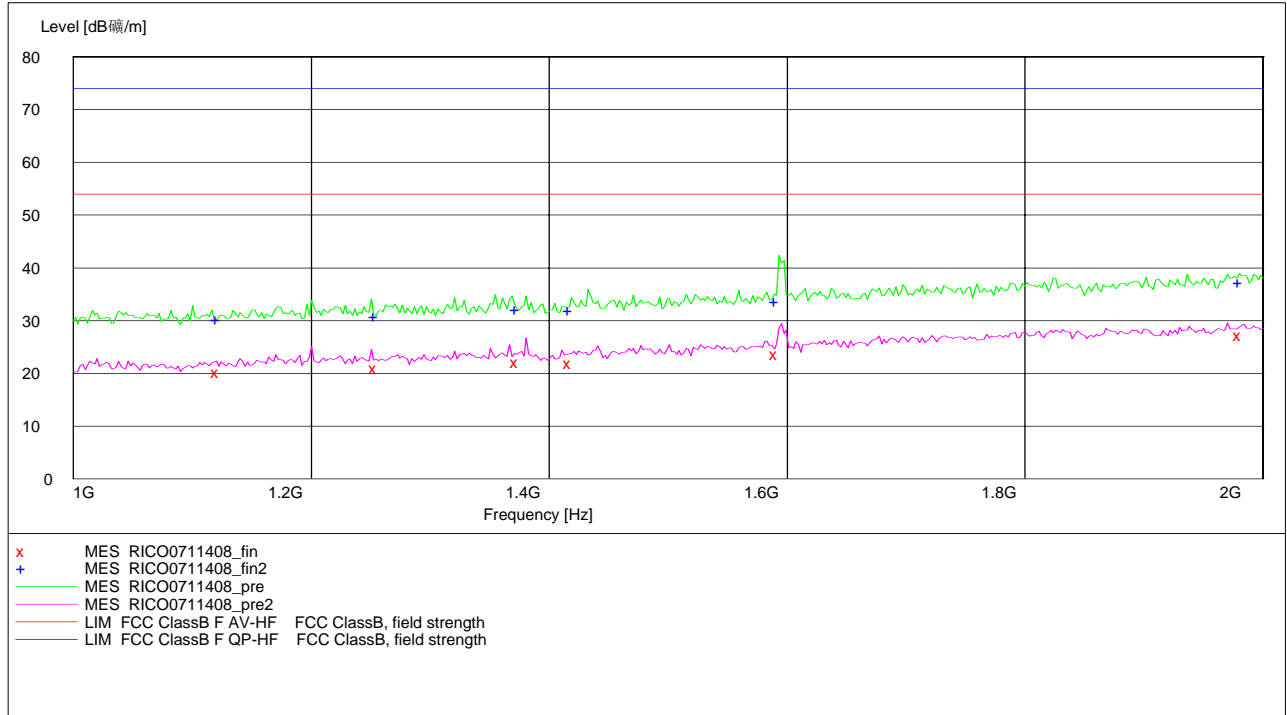
7/11/2011 7:59PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1482.500000	22.90	-6.1	54.0	31.1	AV	100.0	192.00	HORIZONTAL
1592.500000	24.30	-5.1	54.0	29.7	AV	100.0	187.00	HORIZONTAL
1709.000000	25.20	-3.9	54.0	28.8	AV	100.0	272.00	HORIZONTAL
1709.500000	25.20	-3.9	54.0	28.8	AV	118.0	269.00	HORIZONTAL
1711.500000	25.00	-3.8	54.0	29.0	AV	100.0	267.00	HORIZONTAL
1912.000000	26.00	-2.2	54.0	28.0	AV	135.0	271.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	1981.00	27.30	Vertical	54.00	-1.60	26.70	100	5	AV
Test Results				Pass					

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO0711408_fin"

7/11/2011 8:09PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1126.000000	30.20	-8.7	74.0	43.8	PK	123.0	162.00	VERTICAL
1255.000000	30.90	-7.7	74.0	43.1	PK	148.0	281.00	VERTICAL
1372.500000	32.10	-6.8	74.0	41.9	PK	100.0	329.00	VERTICAL
1411.000000	31.90	-6.5	74.0	42.1	PK	100.0	10.00	VERTICAL
1595.500000	33.60	-5.1	74.0	40.4	PK	147.0	201.00	VERTICAL
1989.000000	37.30	-1.6	74.0	36.7	PK	100.0	65.00	VERTICAL

MEASUREMENT RESULT: "RICO0711408_fin2"

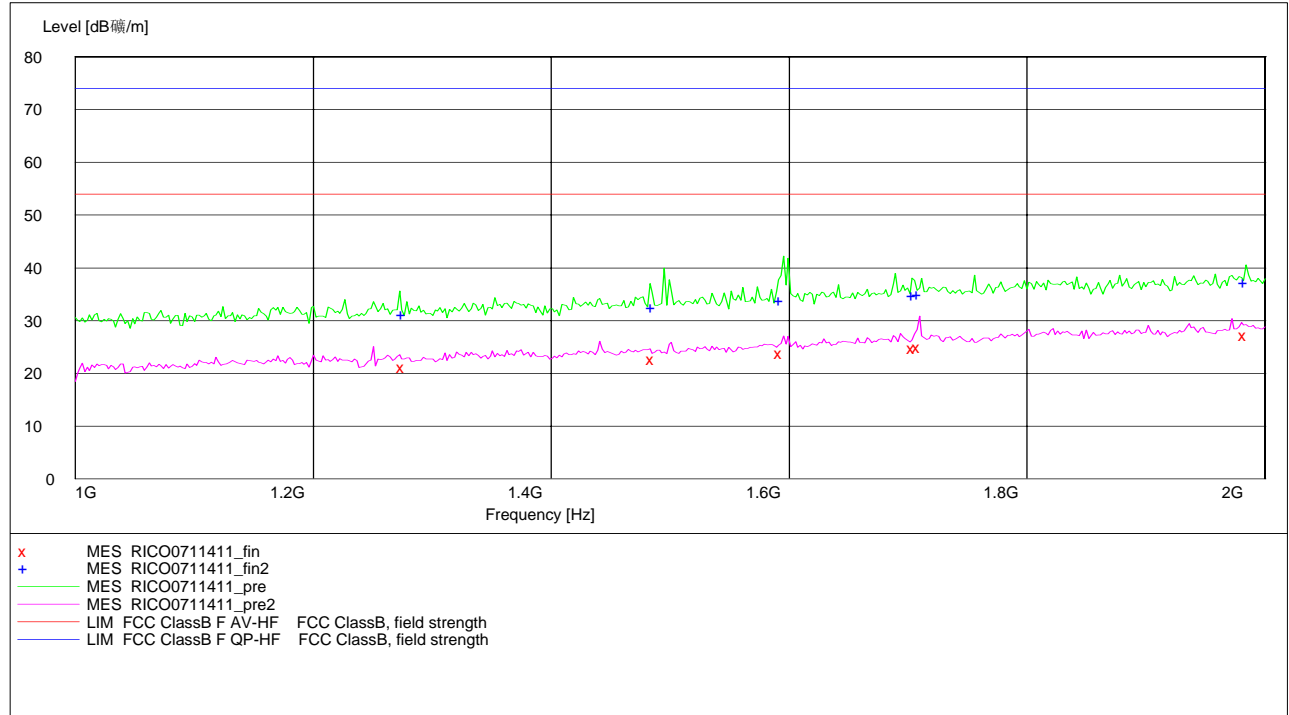
7/11/2011 8:09PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1122.000000	20.20	-8.7	54.0	33.8	AV	123.0	162.00	VERTICAL
1255.000000	20.90	-7.7	54.0	33.1	AV	148.0	281.00	VERTICAL
1373.500000	22.10	-6.8	54.0	31.9	AV	100.0	329.00	VERTICAL
1418.000000	21.90	-6.5	54.0	32.1	AV	100.0	0.00	VERTICAL
1591.500000	23.60	-5.1	54.0	30.4	AV	147.0	211.00	VERTICAL
1981.000000	27.30	-1.6	54.0	26.7	AV	100.0	5.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	1984.00	27.30	Horizontal	54.00	-1.50	26.70	131	295	AV
Test Results				Pass					

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO0711411_fin"

7/11/2011 8:46PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1275.500000	31.20	-7.5	74.0	42.8	PK	100.0	275.00	HORIZONTAL
1484.500000	32.60	-6.0	74.0	51.4	PK	150.0	194.00	HORIZONTAL
1599.500000	33.90	-5.0	74.0	40.1	PK	100.0	131.00	HORIZONTAL
1702.500000	34.80	-3.9	74.0	39.2	PK	100.0	163.00	HORIZONTAL
1707.500000	35.00	-3.9	74.0	39.0	PK	150.0	161.00	HORIZONTAL
1982.000000	37.30	-1.5	74.0	36.7	PK	131.0	290.00	HORIZONTAL

MEASUREMENT RESULT: "RICO0711411_fin2"

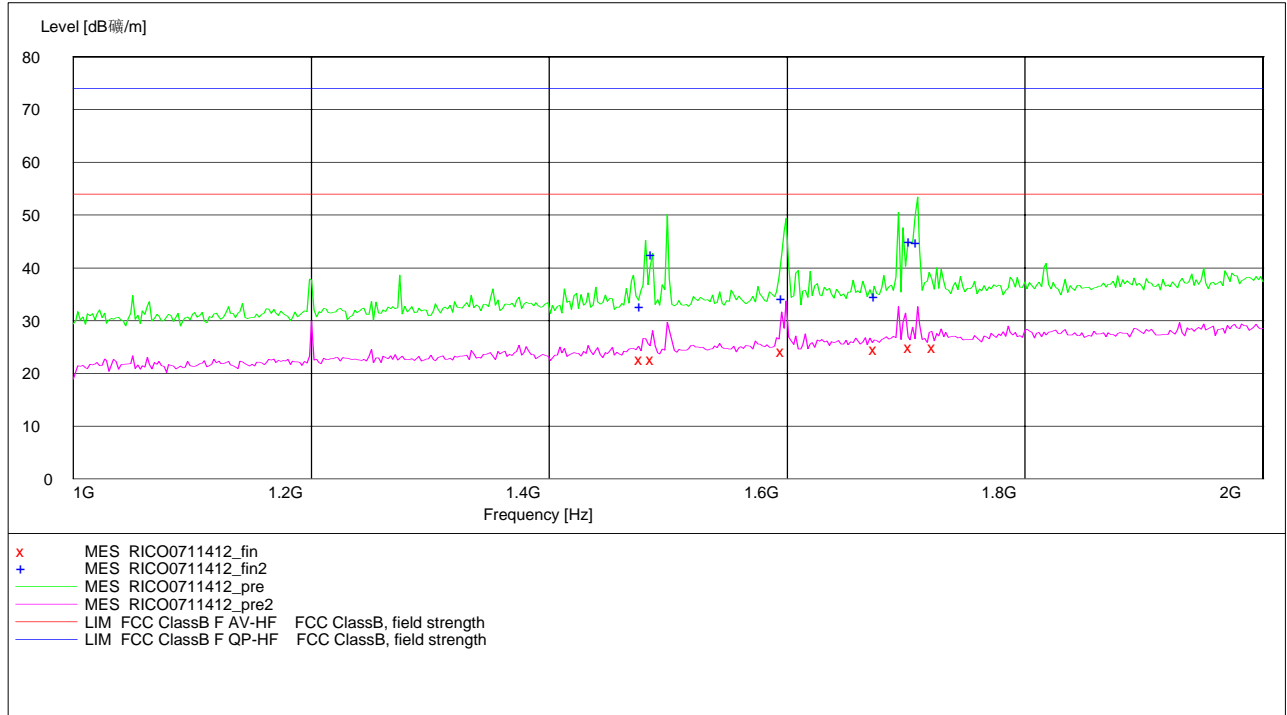
7/11/2011 8:46PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1276.500000	21.20	-7.5	54.0	32.8	AV	100.0	275.00	HORIZONTAL
1486.500000	22.60	-6.0	54.0	31.4	AV	150.0	197.00	HORIZONTAL
1593.500000	23.90	-5.0	54.0	30.1	AV	100.0	136.00	HORIZONTAL
1705.500000	24.80	-3.9	54.0	29.2	AV	100.0	169.00	HORIZONTAL
1709.500000	25.00	-3.9	54.0	29.0	AV	150.0	166.00	HORIZONTAL
1984.000000	27.30	-1.5	54.0	26.7	AV	131.0	295.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	1705.00	25.00	Vertical	54.00	-3.90	29.0	100	189	AV
Test Results				Pass					

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO0711412_fin"

7/11/2011 8:55PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1473.500000	32.70	-6.1	74.0	41.3	PK	126.0	240.00	VERTICAL
1484.000000	42.60	-6.0	74.0	31.4	PK	130.0	255.00	VERTICAL
1599.500000	34.20	-5.0	74.0	39.8	PK	150.0	280.00	VERTICAL
1671.000000	34.70	-4.2	74.0	39.3	PK	148.0	256.00	VERTICAL
1706.000000	45.00	-3.9	74.0	29.0	PK	100.0	184.00	VERTICAL
1718.500000	44.90	-3.7	74.0	29.1	PK	150.0	48.00	VERTICAL

MEASUREMENT RESULT: "RICO0711412_fin2"

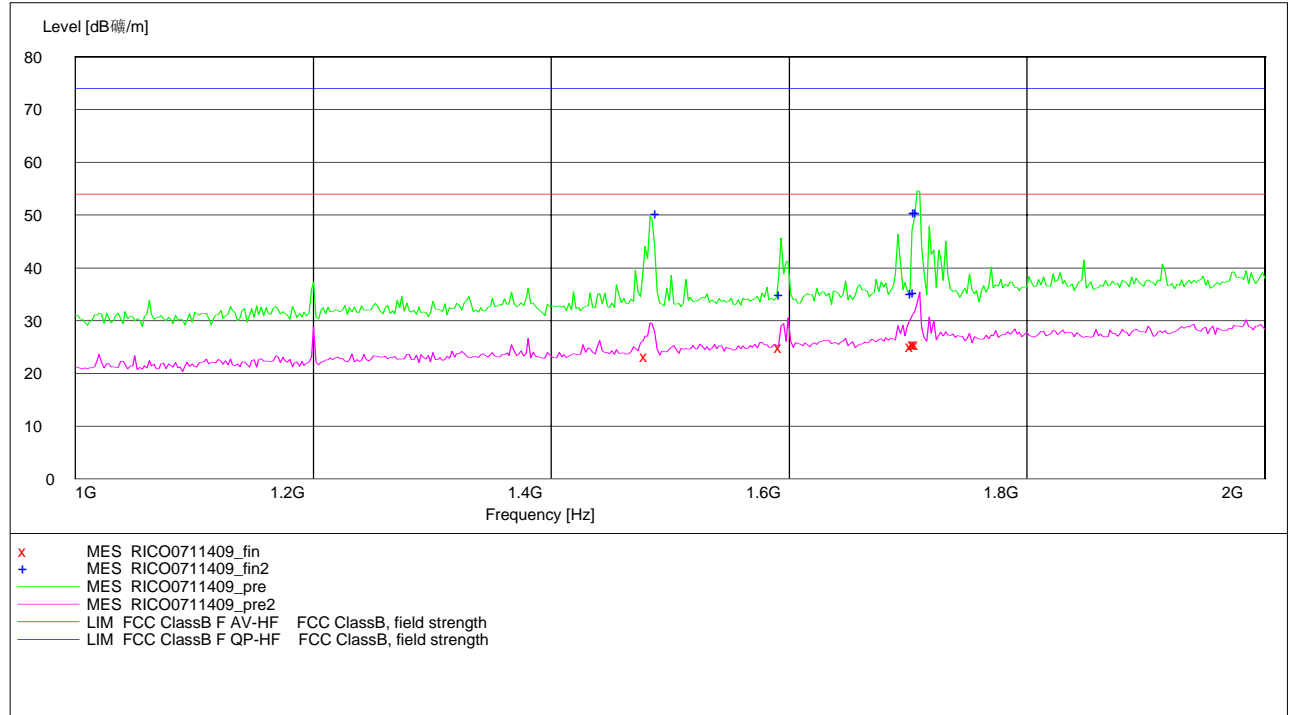
7/11/2011 8:55PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1478.500000	22.70	-6.1	54.0	31.3	AV	126.0	240.00	VERTICAL
1488.000000	22.60	-6.0	54.0	31.4	AV	130.0	235.00	VERTICAL
1597.500000	24.20	-5.0	54.0	29.8	AV	150.0	240.00	VERTICAL
1675.000000	24.70	-4.2	54.0	29.3	AV	148.0	253.00	VERTICAL
1705.000000	25.00	-3.9	54.0	29.0	AV	100.0	189.00	VERTICAL
1724.500000	24.90	-3.7	54.0	29.1	AV	150.0	0.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	1707.00	25.60	Vertical	54.00	-3.90	28.4	123	357	AV
Test Results				Pass					

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO0711409_fin"

7/11/2011 8:21PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1495.000000	50.30	-6.1	74.0	23.7	PK	100.0	259.00	VERTICAL
1594.500000	35.00	-5.0	74.0	39.0	PK	100.0	248.00	VERTICAL
1708.500000	35.20	-3.9	74.0	38.8	PK	134.0	45.00	VERTICAL
1709.500000	35.50	-3.9	74.0	38.5	PK	150.0	48.00	VERTICAL
1705.000000	50.60	-3.9	74.0	23.4	PK	123.0	358.00	VERTICAL
1702.500000	50.50	-3.9	74.0	23.5	PK	100.0	96.00	VERTICAL

MEASUREMENT RESULT: "RICO0711409_fin2"

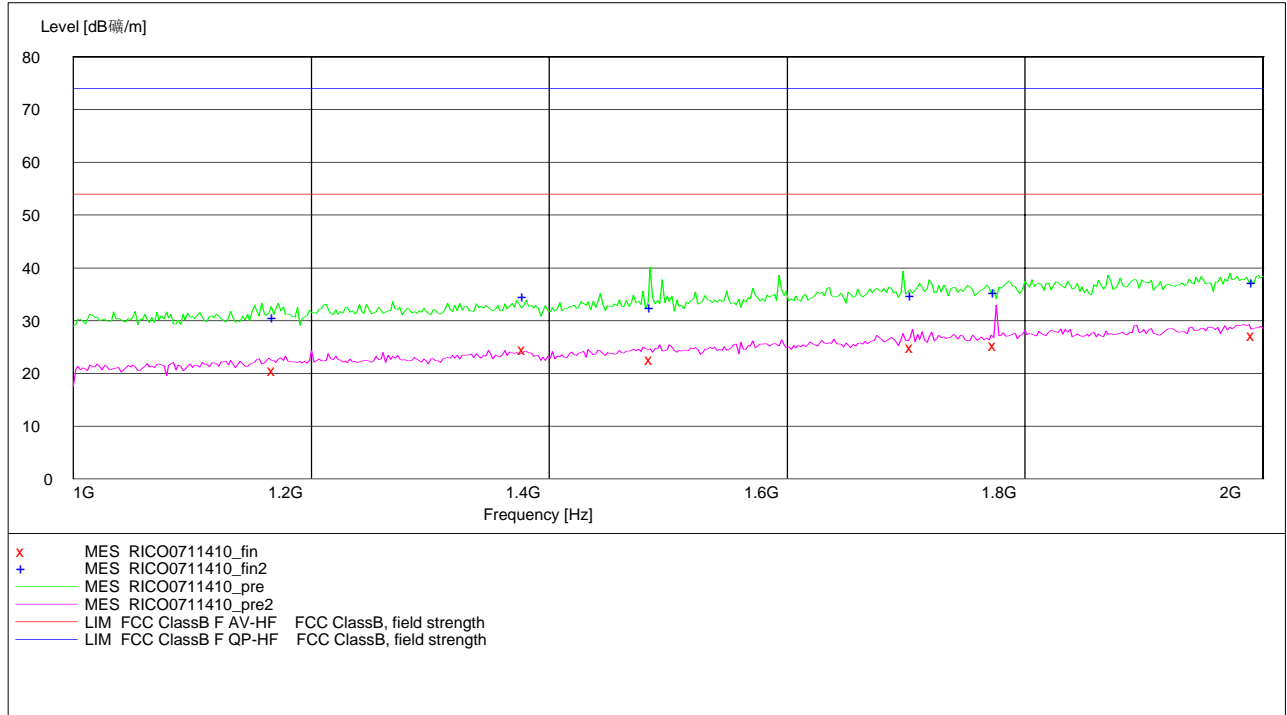
7/11/2011 8:21PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1481.000000	23.30	-6.1	54.0	30.7	AV	100.0	238.00	VERTICAL
1593.500000	25.00	-5.0	54.0	29.0	AV	100.0	232.00	VERTICAL
1704.500000	25.20	-3.9	54.0	28.8	AV	134.0	0.00	VERTICAL
1706.500000	25.50	-3.9	54.0	28.5	AV	150.0	0.00	VERTICAL
1707.000000	25.60	-3.9	54.0	28.4	AV	123.0	357.00	VERTICAL
1708.500000	25.50	-3.9	54.0	28.5	AV	100.0	0.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	1992.50	27.20	Horizontal	54.00	-1.50	26.80	139	294	AV
Test Results				Pass					

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO0711410_fin"

7/11/2011 8:37PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1165.500000	30.60	-8.3	74.0	43.4	PK	150.0	143.00	HORIZONTAL
1386.000000	34.60	-6.7	74.0	39.4	PK	100.0	195.00	HORIZONTAL
1485.000000	32.60	-6.0	74.0	41.4	PK	135.0	289.00	HORIZONTAL
1704.000000	34.90	-3.9	74.0	39.1	PK	100.0	274.00	HORIZONTAL
1777.500000	35.40	-3.3	74.0	38.6	PK	100.0	78.00	HORIZONTAL
1991.500000	37.20	-1.5	74.0	36.8	PK	139.0	294.00	HORIZONTAL

MEASUREMENT RESULT: "RICO0711410_fin2"

7/11/2011 8:37PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1169.500000	20.60	-8.3	54.0	33.4	AV	150.0	43.00	HORIZONTAL
1380.000000	24.60	-6.7	54.0	29.4	AV	100.0	197.00	HORIZONTAL
1487.000000	22.60	-6.0	54.0	31.4	AV	135.0	285.00	HORIZONTAL
1706.000000	24.90	-3.9	54.0	29.1	AV	100.0	274.00	HORIZONTAL
1775.500000	25.40	-3.3	54.0	28.6	AV	100.0	73.00	HORIZONTAL
1992.500000	27.20	-1.5	54.0	26.8	AV	139.0	294.00	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, USB print and NIC print modes during the test and the maximum emanating results 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

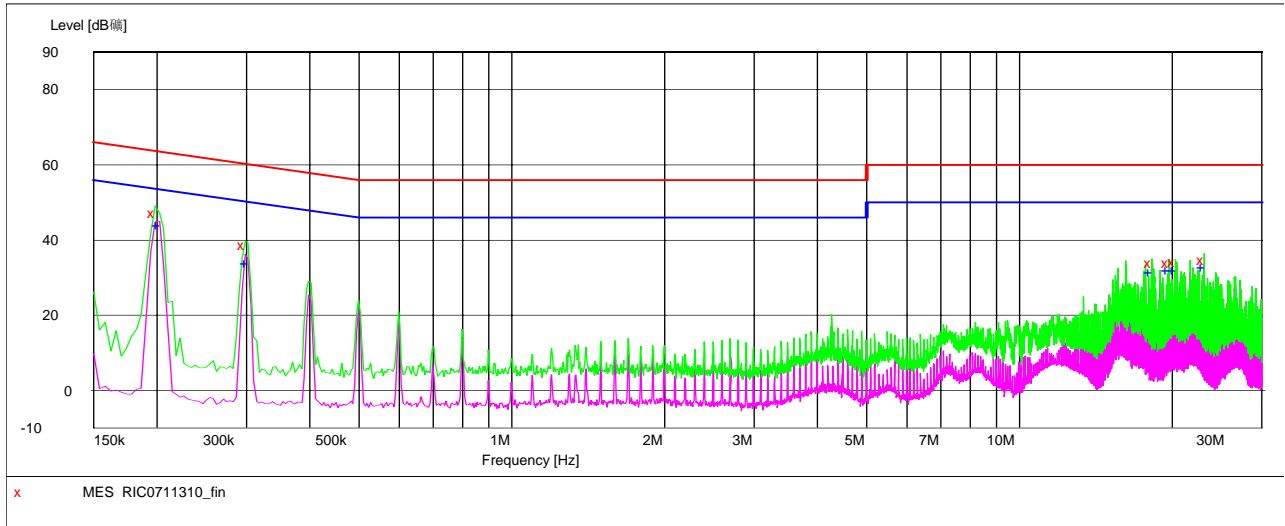
Level=read value+transducer

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

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Standby	0.198	47.10	L	60	10.10	16.60	QP
	0.202	44.10	L	54	10.10	9.40	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC0711310_fin"

7/11/2011 5:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	47.10	10.1	64	16.6	QP	L1	GND
0.298000	38.60	10.1	60	21.7	QP	L1	GND
18.242000	33.80	10.4	60	26.2	QP	L1	GND
19.710000	33.80	10.4	60	26.2	QP	L1	GND
20.258000	34.10	10.4	60	25.9	QP	L1	GND
23.130000	34.70	10.6	60	25.3	QP	L1	GND

MEASUREMENT RESULT: "RIC0711310_fin2"

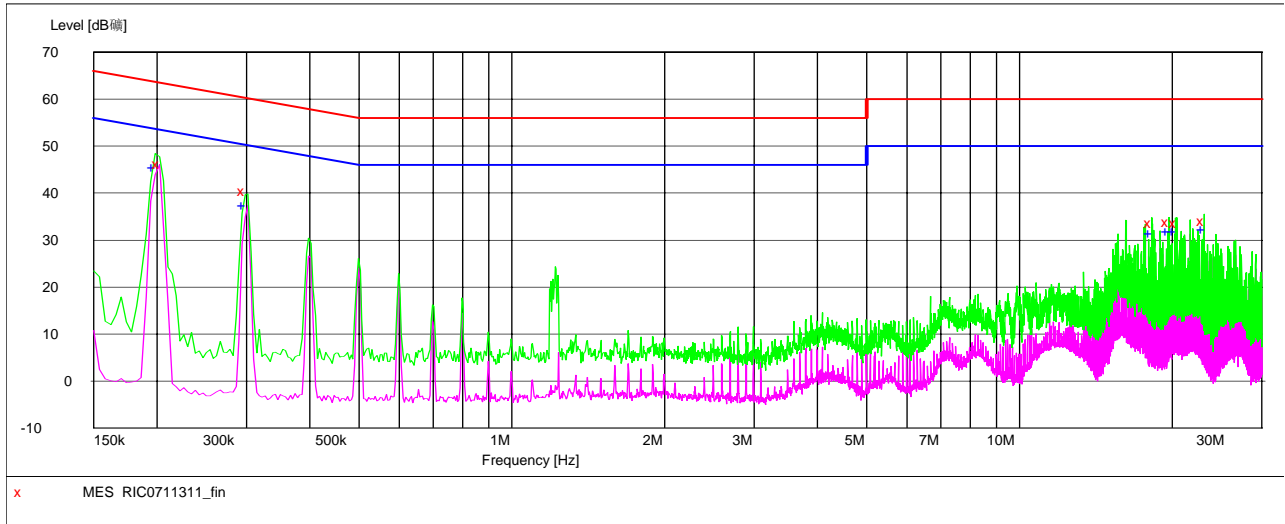
7/11/2011 5:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.202000	44.10	10.1	54	9.4	AV	L1	GND
0.302000	34.00	10.1	50	16.2	AV	L1	GND
18.242000	31.40	10.4	50	18.6	AV	L1	GND
19.710000	31.90	10.4	50	18.1	AV	L1	GND
20.258000	32.10	10.4	50	17.9	AV	L1	GND
23.130000	32.80	10.6	50	17.2	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dB μ V)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dB μ V)					
Standby	0.202	46.10	N	60.00	10.10	17.40	QP
	0.198	45.6	N	50.00	10.10	8.10	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC0711311_fin"

7/11/2011 5:48PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.202000	46.10	10.1	64	17.4	QP	N	GND
0.298000	40.50	10.1	60	19.8	QP	N	GND
18.242000	33.60	10.4	60	26.4	QP	N	GND
19.710000	33.70	10.4	60	26.3	QP	N	GND
20.382000	33.60	10.4	60	26.4	QP	N	GND
23.130000	34.10	10.6	60	25.9	QP	N	GND

MEASUREMENT RESULT: "RIC0711311_fin2"

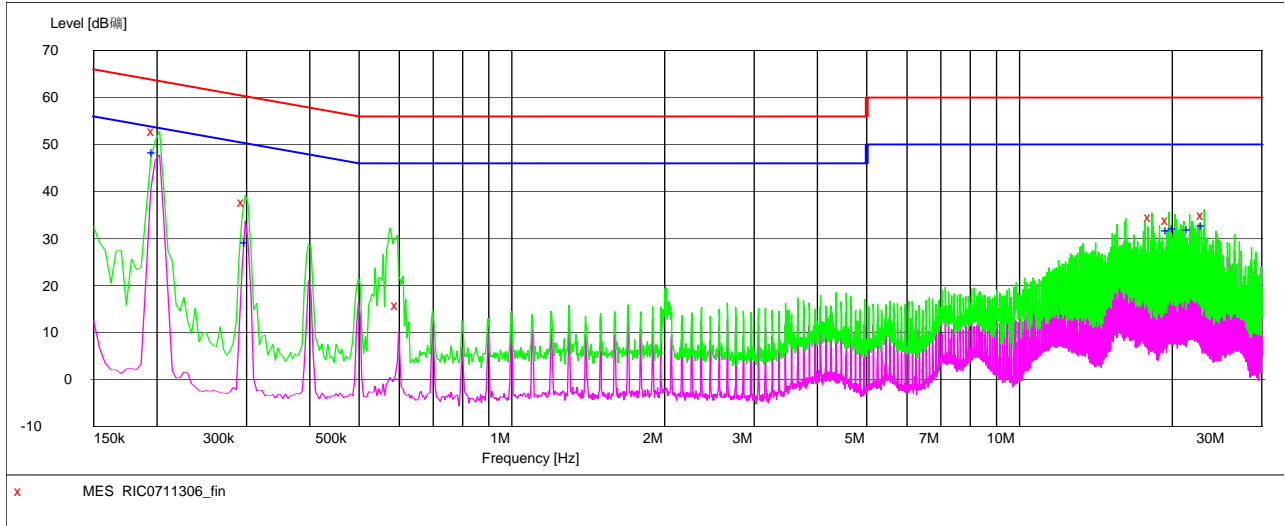
7/11/2011 5:48PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.198000	45.60	10.1	54	8.1	AV	N	GND
0.298000	37.40	10.1	50	12.9	AV	N	GND
18.242000	31.50	10.4	50	18.5	AV	N	GND
19.710000	31.90	10.4	50	18.1	AV	N	GND
20.258000	32.00	10.4	50	18.0	AV	N	GND
23.130000	32.30	10.6	50	17.7	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
NIC Print	0.1980	52.80	L	64	10.10	10.90	QP
	0.1980	48.50	L	54	10.10	5.20	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC0711306_fin"

7/11/2011 5:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	52.80	10.1	64	10.9	QP	L1	GND
0.298000	37.70	10.1	60	22.6	QP	L1	GND
0.598000	15.80	10.1	56	40.2	QP	L1	GND
18.242000	34.60	10.4	60	25.4	QP	L1	GND
19.710000	33.90	10.4	60	26.1	QP	L1	GND
23.130000	35.00	10.6	60	25.0	QP	L1	GND

MEASUREMENT RESULT: "RIC0711306_fin2"

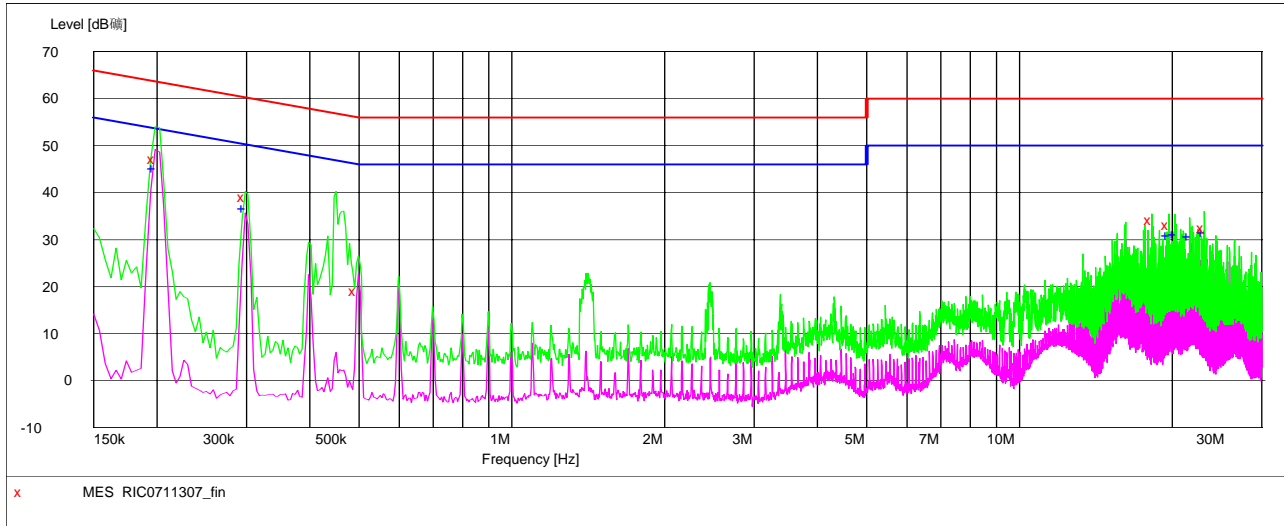
7/11/2011 5:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	48.50	10.1	54	5.2	AV	L1	GND
0.302000	29.30	10.1	50	20.9	AV	L1	GND
19.710000	31.80	10.4	50	18.2	AV	L1	GND
20.258000	32.10	10.4	50	17.9	AV	L1	GND
21.662000	31.90	10.5	50	18.1	AV	L1	GND
23.130000	32.80	10.6	50	17.2	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
NIC Print	0.1980	47.00	N	64.00	10.10	16.60	QP
	0.1980	45.20	N	54.00	10.10	8.50	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC0711307_fin"

7/11/2011 5:33PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	47.10	10.1	64	16.6	QP	N	GND
0.298000	39.00	10.1	60	21.3	QP	N	GND
0.494000	19.10	10.1	56	37.0	QP	N	GND
18.242000	34.10	10.4	60	25.9	QP	N	GND
19.710000	33.20	10.4	60	26.8	QP	N	GND
23.130000	32.50	10.6	60	27.5	QP	N	GND

MEASUREMENT RESULT: "RIC0711307_fin2"

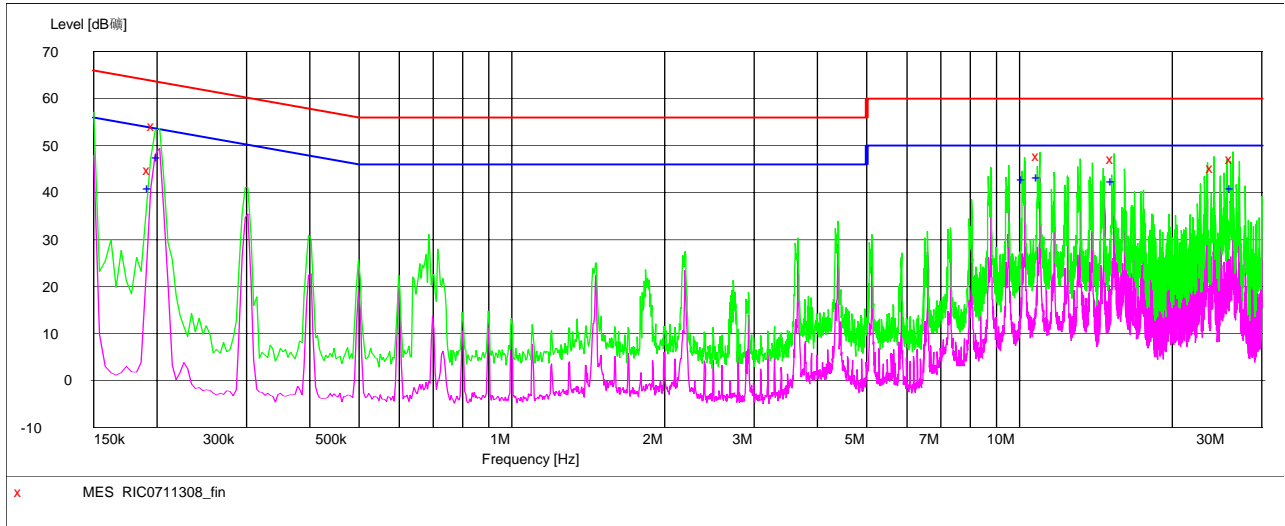
7/11/2011 5:33PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	45.20	10.1	54	8.5	AV	N	GND
0.298000	36.60	10.1	50	13.7	AV	N	GND
19.710000	31.00	10.4	50	19.0	AV	N	GND
20.258000	31.10	10.4	50	18.9	AV	N	GND
21.662000	30.70	10.5	50	19.3	AV	N	GND
23.130000	31.50	10.6	50	18.5	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
USB Print	0.1980	54.10	N	64.00	10.10	9.60	QP
	0.2020	47.70	N	54.00	10.10	5.80	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC0711308_fin"

7/11/2011 5:37PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.194000	44.80	10.1	64	19.1	QP	N	GND
0.198000	54.10	10.1	64	9.6	QP	N	GND
10.974000	47.80	10.4	60	12.2	QP	N	GND
15.366000	47.20	10.4	60	12.8	QP	N	GND
24.146000	45.30	10.7	60	14.7	QP	N	GND
26.342000	47.10	10.8	60	12.9	QP	N	GND

MEASUREMENT RESULT: "RIC0711308_fin2"

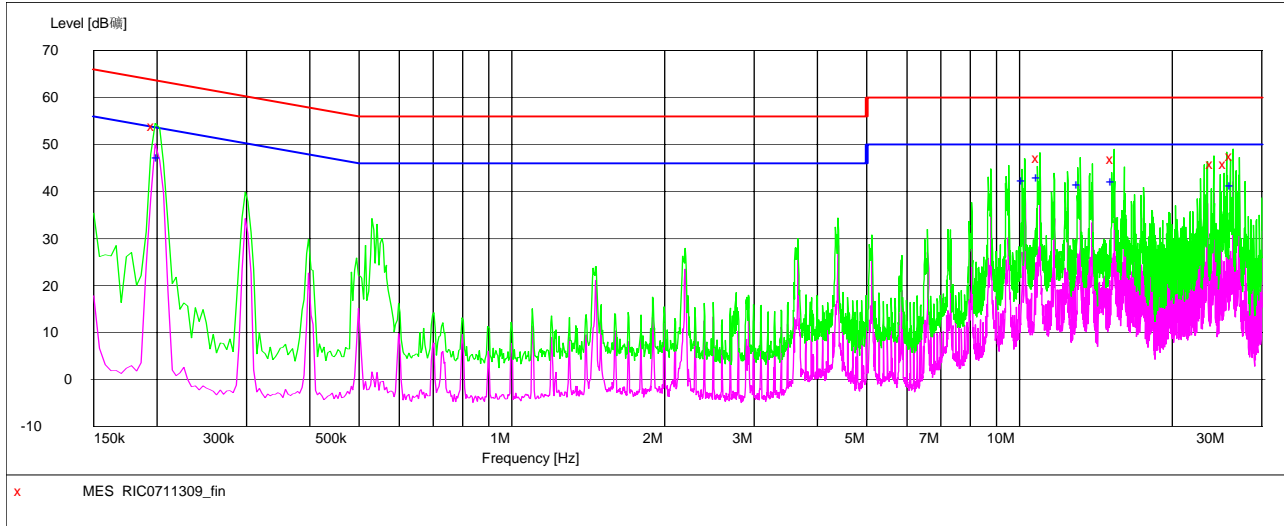
7/11/2011 5:37PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.194000	40.90	10.1	54	13.0	AV	N	GND
0.202000	47.70	10.1	54	5.8	AV	N	GND
10.242000	42.90	10.5	50	7.1	AV	N	GND
10.974000	43.30	10.4	50	6.7	AV	N	GND
15.362000	42.40	10.4	50	7.6	AV	N	GND
26.342000	41.00	10.8	50	9.0	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
USB Print	0.1980	54.00	L	64.00	10.10	9.70	QP
	0.2020	47.40	L	54.00	10.10	6.10	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC0711309_fin"

7/11/2011 5:40PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	54.00	10.1	64	9.7	QP	L1	GND
10.974000	47.20	10.4	60	12.8	QP	L1	GND
15.366000	47.00	10.4	60	13.0	QP	L1	GND
24.146000	45.90	10.7	60	14.1	QP	L1	GND
25.610000	45.80	10.8	60	14.2	QP	L1	GND
26.342000	47.60	10.8	60	12.4	QP	L1	GND

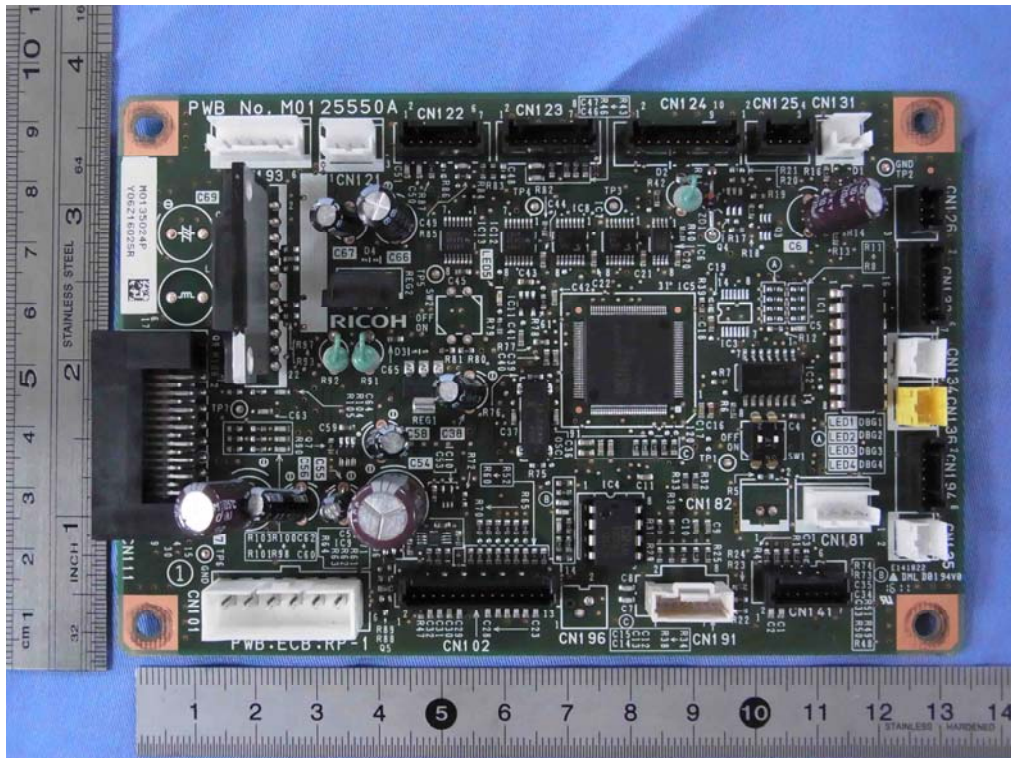
MEASUREMENT RESULT: "RIC0711309_fin2"

7/11/2011 5:40PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.202000	47.40	10.1	54	6.1	AV	L1	GND
10.242000	42.40	10.5	50	7.6	AV	L1	GND
10.974000	43.20	10.4	50	6.8	AV	L1	GND
13.170000	41.50	10.4	50	8.5	AV	L1	GND
15.362000	42.30	10.4	50	7.7	AV	L1	GND
26.342000	41.30	10.8	50	8.7	AV	L1	GND

5. Internal Photos of the Engine Board

5.1. Internal photos of the Engine Board



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