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Auftraggeber: <i>Client:</i>		Seikaku Technical Group Limited Offshore Chambers, P. O. Box 217, Apia, Samoa			
Gegenstand der Prüfung: <i>Test item:</i>		Wireless Microphone Receiver			
Bezeichnung: <i>Identification:</i>		WR-101R RM100 (PROEL)	FCC ID: <i>FCC ID</i>	H38WR-101R-	
Wareneingangs-Nr.: <i>Receipt No.:</i>		173040862	Eingangsdatum: <i>Date of receipt:</i>	30.10.2008	
Prüfort: <i>Testing location:</i>		TÜV Rheinland (Guangdong) Ltd. EMC Laboratory Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China		Listed test laboratory according to FCC rules section 2.948 for measuring devices under Parts 15	
Prüfgrundlage: <i>Test specification:</i>		ANSI C63.4:2003 FCC Part 15: 20, Sep. 2007 Subpart B section 15.107, 15.109			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (Guangdong) Ltd.			
geprüft/ tested by:		kontrolliert/ reviewed by:			
22. Jan. 2009 Liangdong Xie/Project Manager <i>Datum Name/Stellung Unterschrift</i> <i>Date Name/Position Signature</i>		22. Jan. 2009 Ricky Liu/Project Manager <i>Datum Name/Stellung Unterschrift</i> <i>Date Name/Position Signature</i>			
Sonstiges/ Other Aspects:					
Abkürzungen:		Abbreviations:			
P(ass) = entspricht Prüfgrundlage		P(ass) = passed			
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed			
N/A = nicht anwendbar		N/A = not applicable			
N/T = nicht getestet		N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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TEST SUMMARY

5.1 CONDUCTED EMISSION FOR FCC PART 15 PER SECTION 15.107(A)

RESULT: Pass

5.2 RADIATED EMISSION FOR FCC PART 15 PER SECTION 15.109(A)

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

No appendix attached in this report.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650

P. R. China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Manufacturer	S/N	Calibrated until	Calibrated Interval
EMI Test Receiver	ESCI-3	Rohde & Schwarz	100216	24.Nov.2009	1 year
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	27.Aug.2009	1 year
Trilog-Broadband Antenna	VULB9168	SCHWARZBECK MESS-ELEKTRONIK	210	08.May.2009	2 year
Double-Ridged Waveguide Horn Antenna	HF906	Rohde & Schwarz	100385	18.Jul.2009	2 year
Double-Ridged Waveguide Horn Antenna	HF906	Rohde & Schwarz	100407	08.May.2009	2 year
Pre-amplifier	AFS42- 00101800- 25-S-42	MITEQ	1101599	31.Jul.2009	2 year
Band Reject Filter	BRM50702	Micro-Tronics	023	15.Feb.2010	2 year
Standard Gain Horn Antenna	3160-09	EMCO	21642	N/A	2 year
Standard Gain Horn Antenna	3160-09	EMCO	21645	N/A	2 year
Pre-amplifier	AFS33- 18002650- 30-8P-44	MITEQ	1108282	31.Jul.2009	2 year
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	16.Apr.2010	2 year
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	27.Mar.2009	1 year
Two-Line V-Network	ESH3-Z5	Rohde & Schwarz	100308	27.Mar.2009	1 year
Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100701	01.Mar.2009	1 year

2.3 Trace ability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

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2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is ± 2.51 dB.

Uncertainty for radiated emissions measurements is ± 4.9 dB (30MHz-1GHz), ± 4.84 dB (>1GHz).

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845

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3 General Product Information

The submitted sample WR-101R is wireless microphones receiver operating within the frequency range of 174 MHz to 216 MHz.

RM100 (PROEL) is identical with WR-101R except model name and brand name.

All the necessary tests were performed on model WR-101R.

3.1 Product Function and Intended Use

For details, refer to User Manual.

3.2 Ratings and System Details

Frequency range	:	174 MHz – 216 MHz
Type of antenna	:	Integral
FCC ID:		H38WR-101R-
Power supply	:	DC 12V to 18V, 300mA Power by external AC/DC adaptor
Ports	:	DC input, audio output
Protection Class	:	III

Refer to the technical document and user manual for further information.

3.3 Independent Operation Modes

The basic operation modes are:

Receiving at a fixed frequency within the band 174 MHz to 216 MHz and not being changed by end user.

For further information refer to User Manual

3.4 Submitted Documents

Block Diagram
Circuit Diagram
PCB Layout
FCC Label
User Manual
Photo Document

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following linear AC/DC adaptor:

Adaptor:

Input : AC 120V, 60Hz
Output : DC 12V / 500mA
Protection class : II

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Configuration for Testing Radiated Emission below 1 GHz

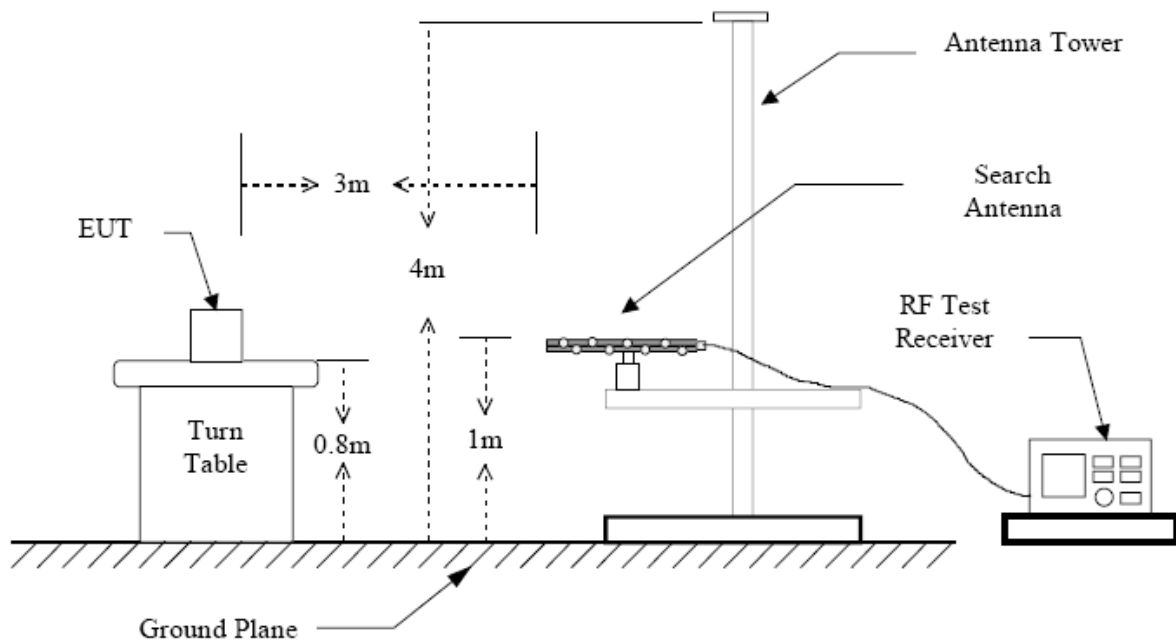


Diagram 2 of Configuration for Testing Radiated Emission above 1 GHz

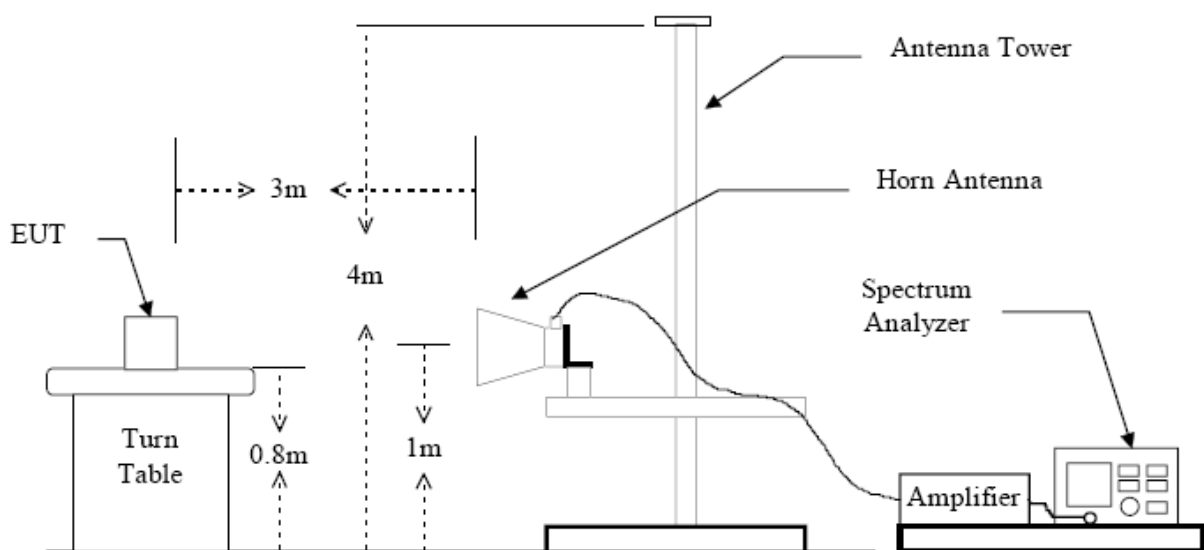
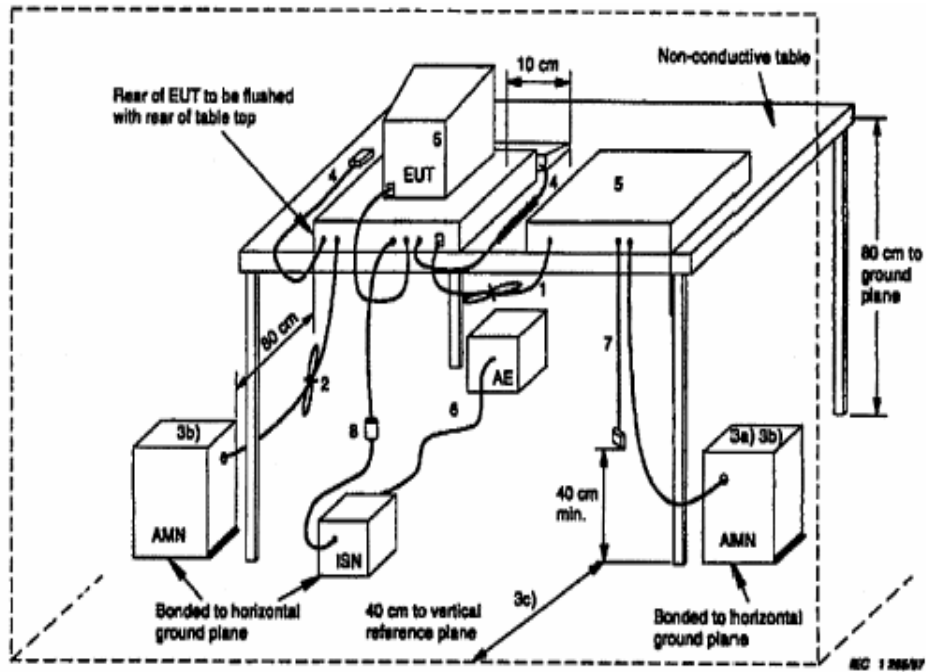


Diagram 3 of Equipment Configuration for Testing Conducted Emission



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5 Test Results EMISSION

5.1 Conducted Emission for FCC Part 15 Per Section 15.107(a)

RESULT:

Pass

Date of testing	:	30.Dec.2008
Test specification	:	FCC Part 15 Per Section 15.107(a)
Limits	:	FCC Part 15 Per Section 15.107(a)
Test procedure	:	Procedure specified in ANSI C63.4 were followed

Deviations from Standard Test procedures

Deviations from Standard Test procedures	:	None
Kind of test site	:	Shielded room
Operation mode	:	Receiving (powered by linear AC/DC adaptor)
Temperature	:	22°C
Humidity	:	50%

Test procedure:

1. Place the EUT as specified in ANSI C63.4 Clause 7.2.1
2. Plug the LISN to a correct power source (pay attention to: AC/DC, voltage, frequency).
4. Connect the EUT to LISN and choose N or L1 on the LISN.
5. Connect ESCS30 and LISN via a 50-ohm coaxial cable and a pulse limiter then begin exploratory measurement as specified in ANSI C63.4 Clause 7.2.3
6. Make final measurement as specified in ANSI C63.4 Clause 7.2.4
7. Switch to the other line on the LISN and repeat step 4 to 6.

If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector may be omitted.

The spectral diagrams in Appendix 1 display the exploratory measurement of un-weighted peak values and average values.

*) Disturbances other than those mentioned below are small or not detectable.

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Table 2: Disturbance Voltage on AC Mains (L line)

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.330000	37.1	1000.000	9.000	L1
0.365000	35.3	1000.000	9.000	L1
0.885000	19.0	1000.000	9.000	L1
2.807270	11.0	1000.000	9.000	L1
7.862890	14.1	1000.000	9.000	L1
20.496190	14.7	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.330000	10.1	22.4	59.5	
0.365000	10.2	23.3	58.6	
0.885000	10.2	37.0	56.0	
2.807270	10.3	45.0	56.0	
7.862890	10.7	45.9	60.0	
20.496190	11.5	45.3	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.345000	20.7	1000.000	9.000	L1
0.370000	13.4	1000.000	9.000	L1
0.890000	9.8	1000.000	9.000	L1
4.988140	10.0	1000.000	9.000	L1
7.957620	11.1	1000.000	9.000	L1
24.924420	12.2	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.345000	10.2	28.4	49.1	
0.370000	10.1	35.1	48.5	
0.890000	10.2	36.2	46.0	
4.988140	10.5	36.0	46.0	
7.957620	10.7	38.9	50.0	
24.924420	11.8	37.8	50.0	

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Table 3: Disturbance Voltage on AC Mains (N line)

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.352500	35.9	1000.000	9.000	N
0.366000	34.6	1000.000	9.000	N
0.883500	18.0	1000.000	9.000	N
3.880500	11.1	1000.000	9.000	N
6.963000	13.1	1000.000	9.000	N
29.899500	15.4	1000.000	9.000	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.352500	10.1	23.0	58.9	
0.366000	10.1	24.0	58.6	
0.883500	10.1	38.0	56.0	
3.880500	10.3	44.9	56.0	
6.963000	10.4	46.9	60.0	
29.899500	11.5	44.6	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.357000	20.5	1000.000	9.000	N
0.366000	13.4	1000.000	9.000	N
0.883500	9.7	1000.000	9.000	N
4.996500	9.9	1000.000	9.000	N
8.007000	10.9	1000.000	9.000	N
24.396000	12.0	1000.000	9.000	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.357000	10.1	28.3	48.8	
0.366000	10.1	35.2	48.6	
0.883500	10.1	36.3	46.0	
4.996500	10.3	36.1	46.0	
8.007000	10.5	39.1	50.0	
24.396000	11.5	38.0	50.0	

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5.2 Radiated Emission for FCC Part 15 Per Section 15.109(a)

RESULT:

Pass

Date of testing	:	12.Dec.2008
Test specification	:	FCC Part 15 Per Section 15.109(a)
Limits	:	FCC Part 15 Per Section 15.109(a)
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Deviations from Standard Test procedures	:	None
Kind of test site	:	3m Semi-anechoic chamber
Operation mode	:	Receiving at high and low channels
Temperature	:	22°C
Humidity	:	50%

Test procedure:

1. The EUT was turned on and placed on the top of a rotatable table 0.8 meters above the ground with 3-orthogonal XYZ direction and be kept close enough to the measurement receiving antenna (especially for the measurement frequency range above 1 GHz). The table was then rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was then recorded together with the suspected emission frequency points above-mentioned.
2. The EUT was then set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower.
3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case that the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to read the maximum emission.

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Table 4: Final measurements of Radiated Emission (EUT was set to lowest channel)

(30MHz to 1000MHz)

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
54.462500	18.8	12.1	21.2	40.0	V
163.390000	27.5	12.9	16.0	43.5	V
361.982500	14.9	18.5	31.1	46.0	V
706.332500	23.5	25.8	22.5	46.0	V

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
46.150000	9.5	13.5	30.5	40.0	H
66.150000	7.5	10.8	32.5	40.0	H
163.400000	29.2	12.9	14.3	43.5	H
610.900000	21.8	24.3	24.2	46.0	H

(1GHz to 2GHz)

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1741.500000	34.3	39.7	74.0	V	-14.1
1797.500000	35.7	38.3	74.0	V	-14.1
1851.000000	35.6	38.4	74.0	V	-14.1
1906.500000	34.6	39.4	74.0	V	-13.4

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1741.500000	29.5	24.5	54.0	V	-14.1
1797.500000	30.3	23.7	54.0	V	-14.1
1851.000000	31.2	22.8	54.0	V	-14.1
1906.500000	28.2	25.8	54.0	V	-13.4

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1143.500000	28.5	45.5	74.0	H	-16.8
1470.000000	30.0	44.0	74.0	H	-15.7
1633.500000	30.4	43.6	74.0	H	-14.8
1797.000000	32.4	41.6	74.0	H	-14.1

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1143.500000	15.7	38.3	54.0	H	-16.8
1470.000000	17.2	36.8	54.0	H	-15.7
1633.500000	18.2	35.8	54.0	H	-14.8
1797.000000	19.2	34.8	54.0	H	-14.1

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Table 5: Final measurements of Radiated Emission (EUT was set to mid channel)

(30MHz to 1000MHz)

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
40.900000	10.5	14.3	29.5	40.0	V
205.300000	34.9	12.7	8.6	43.5	V
501.200000	18.3	21.7	27.7	46.0	V
755.050000	24.0	26.4	22.0	46.0	V

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
36.650000	11.2	14.3	28.8	40.0	H
51.350000	9.3	12.7	30.7	40.0	H
205.300000	32.9	12.7	10.6	43.5	H
490.150000	18.2	21.4	27.8	46.0	H

(1GHz to 2GHz)

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1232.000000	28.7	45.3	74.0	V	-16.5
1437.000000	29.9	44.1	74.0	V	-15.6
1642.500000	30.9	43.1	74.0	V	-14.8
1847.500000	32.3	41.7	74.0	V	-13.7

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1232.000000	16.5	37.5	54.0	V	-16.5
1437.000000	17.7	36.3	54.0	V	-15.6
1642.500000	18.9	35.1	54.0	V	-14.8
1847.500000	19.2	34.8	54.0	V	-13.7

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1232.000000	28.9	45.1	74.0	H	-16.5
1437.000000	30.0	44.0	74.0	H	-15.6
1642.500000	30.5	43.5	74.0	H	-14.8
1847.500000	32.9	41.1	74.0	H	-13.7

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1232.000000	16.3	37.7	54.0	H	-16.5
1437.000000	17.5	36.5	54.0	H	-15.6
1642.500000	18.3	35.7	54.0	H	-14.8
1847.500000	19.5	34.5	54.0	H	-13.7

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Table 6: Final measurements of Radiated Emission (EUT was set to highest channel)

(30MHz to 1000MHz)

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
42.750000	10.1	14.0	29.9	40.0	V
204.500000	22.2	12.7	21.3	43.5	V
456.200000	17.3	20.8	28.7	46.0	V
709.600000	23.4	25.8	22.6	46.0	V

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
39.800000	11.2	14.4	28.8	40.0	H
65.900000	7.6	10.8	32.4	40.0	H
204.500000	19.8	12.7	23.7	43.5	H

(1GHz to 2GHz)

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1227.000000	29.3	44.7	74.0	V	-16.5
1431.500000	30.0	44.0	74.0	V	-15.6
1636.000000	30.8	43.2	74.0	V	-14.8
1840.500000	32.3	41.7	74.0	V	-13.8

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1227.000000	16.4	37.6	54.0	V	-16.5
1431.500000	17.6	36.4	54.0	V	-15.6
1636.000000	18.3	35.7	54.0	V	-14.8
1840.500000	20.4	33.6	54.0	V	-13.8

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1227.000000	28.8	45.2	74.0	H	-16.5
1431.500000	29.6	44.4	74.0	H	-15.6
1636.000000	30.6	43.4	74.0	H	-14.8
1840.500000	31.9	42.1	74.0	H	-13.8

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1227.000000	16.4	37.6	54.0	H	-16.5
1431.500000	17.5	36.5	54.0	H	-15.6
1636.000000	18.3	35.7	54.0	H	-14.8
1840.500000	19.1	34.9	54.0	H	-13.8

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Disturbances other than those mentioned above are far below the limit or not detectable.

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector; the final measurement for frequencies above 1000MHz is performed with Average and Peak detector.

The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz at frequency below 1GHz.

The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz at frequency above 1GHz.

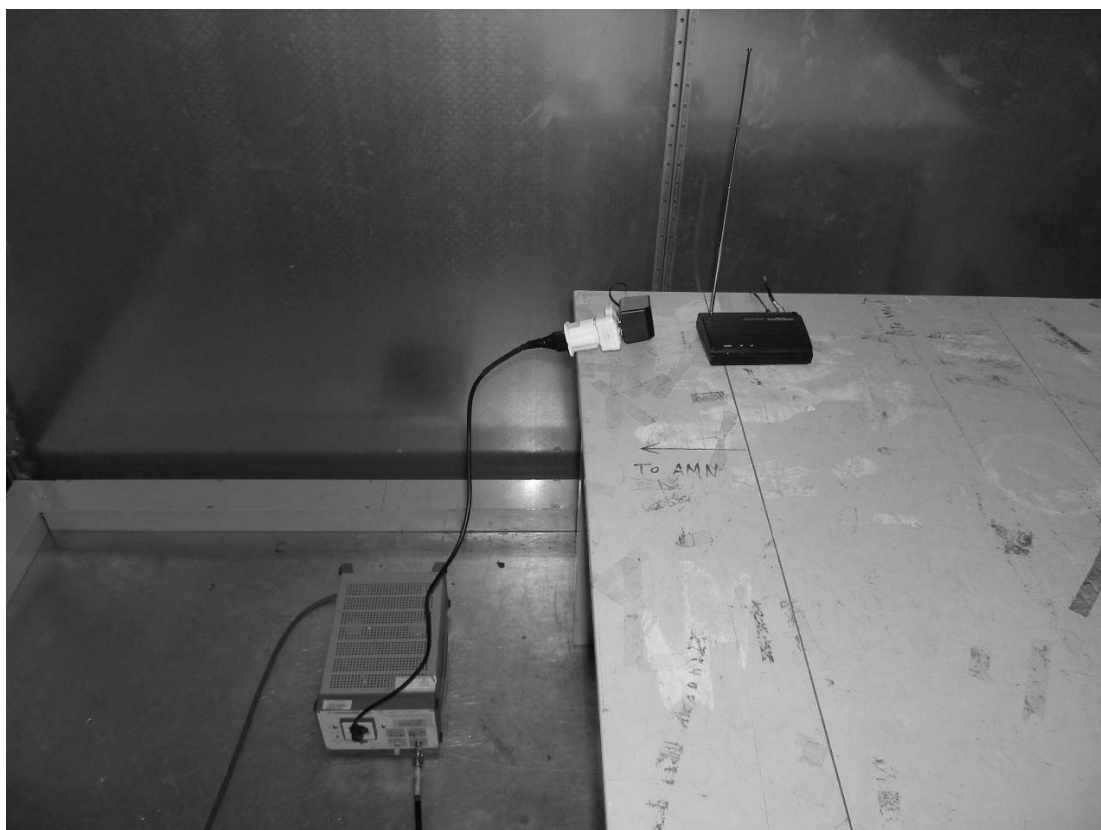
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6 Photographs of the Test Set-Up

Photograph 1: Set up for Conducted Emission on AC Mains

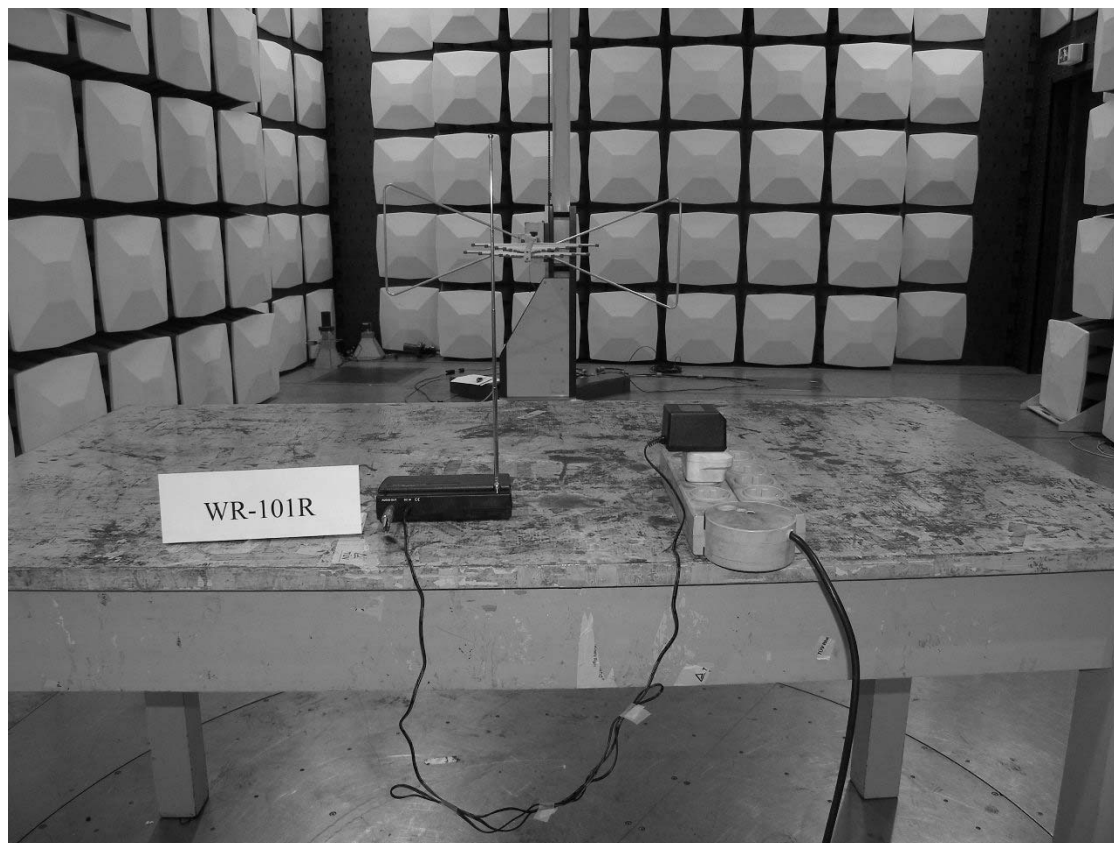


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Photograph 2: Set-up for Radiation Measurement Below 1GHz



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Photograph 3: Set-up for Radiation Measurement Above 1GHz



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