



Accredited testing-laboratory

DAR registration number: DAT-P-176/94-D1

**Federal Motor Transport Authority (KBA)
DAR registration number: KBA-P 00070-97**

Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC)

Anechoic chamber registration no.: 3463A-1 (IC)

Certification ID: DE 0001

Accreditation ID: DE 0002

**Recognized by the Voluntary Control Council for Interference by
Information Technology Equipment under the no.:
T-169, C-2043, R-1896**

Test report no. : 4-2703-01-02/07
Type identification : WS2300U; WS2211; WS1233U
Applicant : W.H. Mandolyn International Ltd.
Test standards : 47CFR15
RSS 210 Issue 7
FCC ID : PLJWS
IC-No. : 3981A-WS

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1 General Information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

Test laboratory manager:

2007-08-09	Jens Hennemann	
Date	Name	Signature

2007-08-09	Stefan Bös	
Date	Name	Signature

Technical responsibility for area of testing:

2007-08-09	Uli Kraus	
Date	Name	Signature

1.2 Testing Laboratory

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 - 10

66117 Saarbrücken

Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

e-mail: info@ict.cetecom.de

Internet: http://www.cetecom-ict.de

State of accreditation: The test laboratory (area of testing) is accredited according to
DIN EN ISO/IEC 17025
DAR registration number: DAT-P-176/94-D1

Testing location, if different from CETECOM ICT Services GmbH:

Name :
Street :
Town :
Country :
Phone :
Fax :

1.3 Details of Applicant

Name:	W.H. Mandolyn International Ltd.
Street:	Unit 1003-8, Landmark North Lung Sum Avenue
Town:	Sheung Shul, N.T.
Country:	Hong Kong
Telephone:	+852-2670-9733
Fax:	+852-2673-0337
Contact:	Mr Yeung Chung Yiu
E-mail:	Yiu@upm-products.com.hk
Telephone:	+852-2670-9733

1.4 Application Details

Date of receipt of order:	2007-07-27
Date of receipt of test item:	2007-08-02
Date of start test:	2007-08-07
Date of end test	2007-08-07
Person(s) who have been present during the test:	- / -

1.5 Information about Test Item

1.5.1 Details of Manufacturer

Name	:	W.H. Mandolyn International Ltd.
Street	:	Unit 1003-8, Landmark North Lung Sum Avenue
Town	:	Sheung Shul, N.T.
Country	:	Hong Kong

1.5.2 Test Item

Kind of test item	:	Weather Station Receiver		
Type identification	:	WS 2300U; WS2211; WS1233U		
Equipment classification	:	Equipment for fixed use		
Environment classification	:	Residential, commercial and light industry		
Supply voltage	:	Battery powered with 3V (2x 1,5V AA)		
Ports (maximum cable lengths declared by manufacturer)	:	Description	Direction	Length
		no ports available		
FCC ID	:	PLJWS		
IC-No.	:	3981A-WS		
Is mounting position / usual operating position defined?	:	wall mounted or tabletop		

1.5.3 EUT: Type, S/N etc. and Short Descriptions Used in this Test Report

short description*)	EUT	Type	S/N serial number	HW hardware status	SW software status
EUT A	WS2300U	Weather Station Receiver	- / -	- / -	- / -
EUT B	WS2211	Weather Station Receiver	- / -	- / -	- / -
EUT C	WS1233U	Weather Station Receiver	- / -	- / -	- / -

*) EUT short description is used to simplify the identification of the EUT in this test report.

1.5.4 EUT Set-up's

EUT set-up no. *)	Combination of EUT and AE	Remarks
set. 1	EUT A	- / -
set. 2	EUT B	- / -
set. 3	EUT C	- / -

*) EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

1.5.5 EUT Operating Modes

EUT operating mode no. *)	Description of operating modes	Additional information
op. 1	active	switched on

*) EUT operating mode no. is used to simplify the test report.

1.5.6 Test Report Cover Sheet/Performance Test Data

TEST REPORT NUMBER:	4-2703-01-02_07
EQUIPMENT MODEL NUMBER:	WS 2300U; WS2211; WS1233U
CERTIFICATION NO:	3981A-WS
MANUFACTURER :	W.H. Mandolyn International Ltd
TESTED TO RADIO STANDARDS SPECIFICATION NO. :	RSS-210 Issue 7
OPEN AREA TEST SITE INDUSTRY CANADA NUMBER:	IC 3463A-1
FREQUENCY RANGE (or fixed frequency):	433,92 MHz
R.F. POWER IN WATTS:	not applicable
FIELD STRENGTH (at what distance):	not applicable
OCCUPIED BANDWIDTH (99% BW):	not applicable
TYPE OF MODULATION:	not applicable
EMISSION DESIGNATOR (TRC-43):	not applicable
ANTENNA INFORMATION:	Internal Antenna
TRANSMITTER SPURIOUS (worst case):	not applicable
RECEIVER SPURIOUS (worst case):	nothing found

ATTESTATION:

DECLARATION OF COMPLIANCE: I declare that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

Signature:

A handwritten signature in black ink, appearing to read "Herman Jaz".

Date: 2007-08-09

1.5.7 Photo Documentation of Test Item

Photo 1: front view of the EUT A

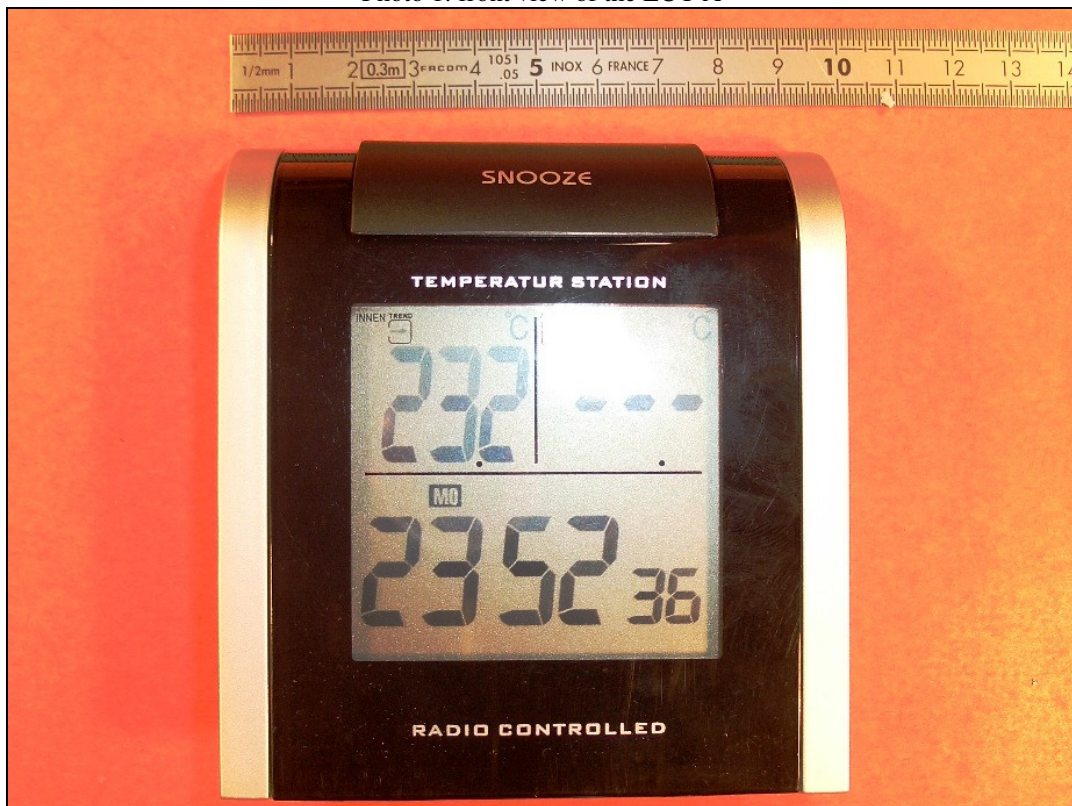


Photo 2: back view of the EUT A with opened battery case



Photo 3: front view of the EUT B



Photo 4: back view of the EUT B with opened battery case



Photo 5: front view of the EUT C

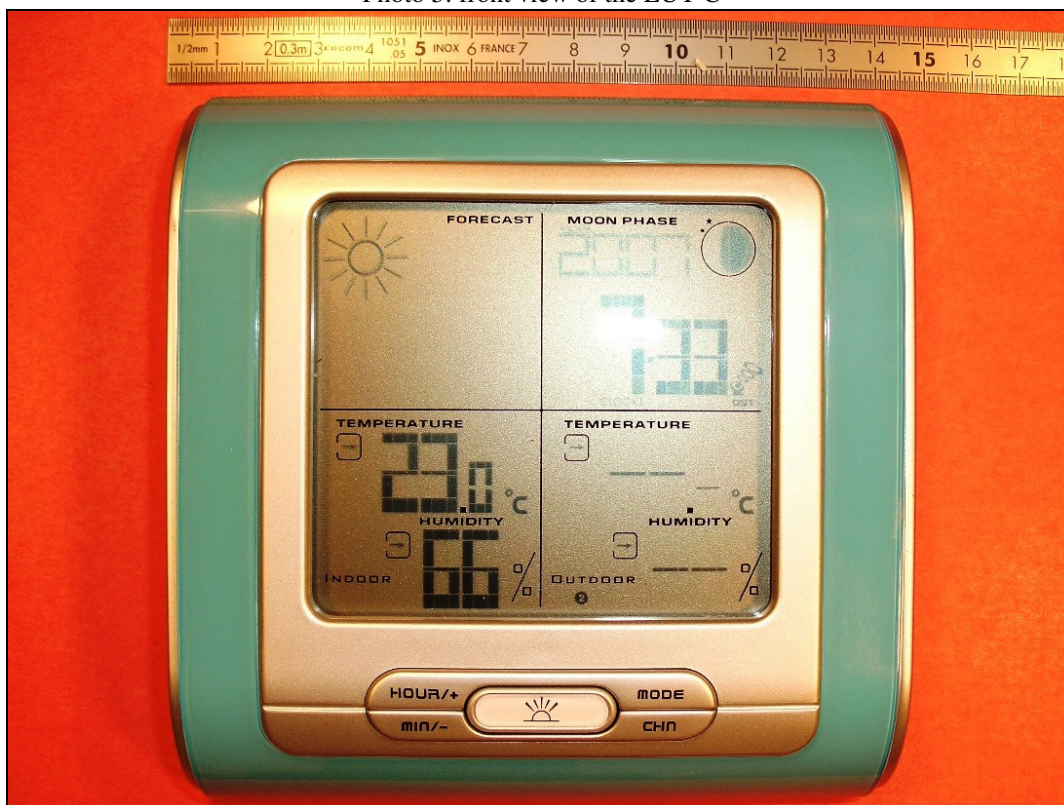


Photo 6: back view of the EUT C with opened battery case



1.6 Test Standard/s:

47CFR15	2007-05	Subpart B - Unintentional Radiators
RSS 210 Issue 7	2007-06	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category 1 Equipment

2 Technical Tests

2.1 Summary of Test Results

- ☒ No deviations from the technical specifications were ascertained
☐ There were deviations from the technical specifications ascertained

2.1.1 Emission

2.1.1.1 Enclosure

EMI Phenomenon	Frequency range	Emission level (Limit) Class B		Basic standard	Result	Remark
		Quasi-peak				
Radiated Interference Field Strength	30 – 88 MHz	30,0 dBμ V/m	10m	47CFR15: (FCC part 15 B) RSS-210 Issue 7	passed	set. 1 + set. 2 + set. 3
	88 - 216 MHz	33,5 dBμ V/m	10m			
	216 - 960 MHz	36,0 dBμ V/m	10m			
	960 - 4000 MHz	54,0 dBμ V/m	3m			

2.1.1.2 AC Mains Power Input/Output Ports

EMI Phenomenon	Frequency range	Emission level (Limit) Class B		Basic standard	Result	Remark
		Quasi-peak	Average			
Conducted interference voltage	0,15 – 0,5 MHz	66 – 56 dBμV	56 – 46 dBμV	47CFR15: (FCC part 15 B) RSS-210 Issue 7	---	NA2
	0,5 – 5 MHz	56 dBμV	46 dBμV			
	5 – 30 MHz	60 dBμV	50 dBμV			

Remarks:

NA1	Not tested because not required by used standard
NA2	Test not applicable because port does not exists
NA3	Test not applicable because port only for services
NA4	Test not applicable because port lengths not longer than 3m
NA5	Not tested because not required by customer
NA6	Not tested because used frequency < 108 MHz

2.2 Laboratory Environment

Temperature : 21°C – 23°C

Relative humidity content : 55 %

Air pressure : 1020 hPa

Details of mains power : AC 230 V +/- 5%

2.3 Measurement and Test Set-up

Note: The test configuration is in accordance with the requirements given in the standards in point 1.6

2.4 Measurement uncertainty

The uncertainty of the measurement equipment fulfils CISPR 16 and the related European and national standards.

The semi anechoic chamber fulfils the requirements of CISPR 16-1 (ANSI C63.4) for a test volume of 3m Ø.

Measurement uncertainty calculations are on file and available from the test laboratory upon request.

2.5 Test Equipment Utilised

To simplify the identification of the test equipment used on each page of the test report, each item of test equipment and ancillaries such as probes are identified throughout the report by numbers in brackets according to the table below.

No.	Instrument/Ancillary	Manufacturer	Type	Serial-No.	Internal identification
Radiated emission in chamber F					
F-1	Control Computer	F+W		FW0502032	300003303
F-2	Bilog antenna	Chase	CBL 6112A	2110	300000573
F-3	EMI Test receiver	R&S	ESCI	100083	300003312
F-4	Turntable Controller	EMCO	1061 3M	1218	300000661
F-5	Tower Controller	EMCO	1051 Controller	1262	300000625
F-6	Tower	EMCO	1051 Tower	1262	300000625
F-7	Ultra Notch-Filter Rejected band Ch. 62	WRCD		9	
Radiated immunity in chamber F					
F-8	Control Computer	F+W		FW0502032	300003303
F-9	Signal Generator	R&S	SML 03	102519	300003407
F-10	RF-Amplifier	ar	50W1000	12932	300001438
F-11	Directional Coupler	ar	DC 3010	12708	300001428
F-12	Logper Antenna	R&S	HL023A1	323704/016	300001476
F-13	RF-Amplifier	ar	60S1G3	313649	300003410
F-14	Directional Coupler	ar	DC7144A	312786	300003411
F-15	Horn Antenna	ar	AT 4002	19739	300000633
F-16	Power Meter	R&S	NRV	860327/024	F033
F-17	Power sensor	R&S	URV5-Z2	839080/005	300002844.02
F-18	Power sensor	R&S	URV5-Z2	830755/057	F032
Harmonics and flicker in front of chamber F					
F-19	Flicker and Harmonics Test System	Spitzenberger & Spies	PHE4500/B I PHE4500/B II	B5983 B5984	300000210
F-20	Control Unit	Spitzenberger & Spies	STE	B5980	300000210
F-21	Power Amplifier	Spitzenberger & Spies	EP 4500/B	B5976	300000210
F-22	Conect Panel	Spitzenberger & Spies	Conect panel	B5982	300000210
F-23	Power Supply	Spitzenberger & Spies	NT-EP 4500	B3977	300000210
F-24	Additional transformer	Spitzenberger & Spies	UT-EP 4500	B5978	300000210
F-25	Analyzer Reference System	Spitzenberger & Spies	ARS 16/1	A3509 07/0 0205	300003314

Anechoic chamber C:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verification		
2	System-Rack 85900	HP I.V.	*	300000222	n.a.		
3	Measurement System 1						
4	Spektrum Analyzer 8566B	HP	2747A05306	300001000	05.10.2006	24	05.10.2008
5	Spektrum Analyzer Display 85662A	HP	2816A16541	300002297	05.10.2006	24	05.10.2008
6	Quasi-Peak-Adapter 85650A	HP	2811A01131	300000999	05.10.2006	24	05.10.2008
7	RF-Preselector 85685A	HP	2837A00779	300000218	08.11.2006	24	08.11.2008
8	PC Vectra VL	HP		300001688	n.a.		
9	Software EMI	HP		300000983	n.a.		
10	Measurement System 2						
11	FSP 30	R&S	100623	ICT 300003464	26.10.2006	12	26.10.2007
12	PC	F+W			n.a.		
13	TILE	TILE			n.a.		
14	Biconical antenna	EMCO	S/N: 860 942/003		Monthly verification (System cal.)		
15	Log. Period. Antenna 3146	EMCO	2130	300001603	Monthly verification (System cal.)		
16	Double Ridged Antenna HP 3115P	EMCO	3088	300001032	Monthly verification (System cal.)		
17	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verification (System cal.)		
18	Power Supply 6032A	HP	2818A03450	300001040	12.05.2007	36	12.05.2010
19	Busisolator	Kontron		300001056	n.a.		
20	Leitungsteiler 11850C	HP		300000997	Monthly verification (System cal.)		
21	Power attenuator 8325	Byrd	1530	300001595	Monthly verification (System cal.)		
22	Band reject filter WRCG1855/1910	Wainwright	7	300003350	Monthly verification (System cal.)		
23	Band reject filter WRCG2400/2483	Wainwright	11	300003351	Monthly verification (System cal.)		

3 Test Performed

3.1 Emission Tests

3.1.1 Electromagnetic Radiated Emissions (Distance 10 m)

3.1.1.1 Instrumentation for Test (see equipment list)

F 1	F 2	F 3	F 4	F 5	F 6						
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3.1.1.2 Test Plan

EUT set-up	set. 1		
Operating mode	Application	Limit	Result
op. 1	Enclosure	FCC part 15 B class B RSS-210 Issue 7	passed

Remarks:	- / -
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3.1.1.3 Radiated Limits

Frequency- range	47CFR15: (FCC part 15 B) Class B RSS-210 Issue 7*	47CFR15: (FCC part 15 B) Class A RSS-210 Issue 7
30 MHz – 88 MHz	30 dBμV/m	39,1 dBμV/m
88 MHz – 216 MHz	33,5 dBμV/m	43,5 dBμV/m
216 MHz – 960 MHz	36 dBμV/m	46,4 dBμV/m
960 MHz – 2000 MHz	44 dBμV/m	49,5 dBμV/m
	* This values are recalculated from the class B limits at 3 m antenna distance in §15.109 (g 2) of the FCC rules	

3.1.1.4 Calibration Information

Device	Serial number	ICT Number	Calibration valid until	Calibration interval
ESCI 3 Receiver	100083/003	300003312	01/2009	24 month
BiLog Antenna	2110	300000573	01/2009	24 month

Remarks:

System check of all relevant devices and the chamber (weekly)

Cable loss: 0.9 to 9.6 dB (30 MHz to 2 GHz); the cable and connectors loss is re-measured every 3 month

3.1.1.5 Test Results

CETECOM ICT Services GmbH

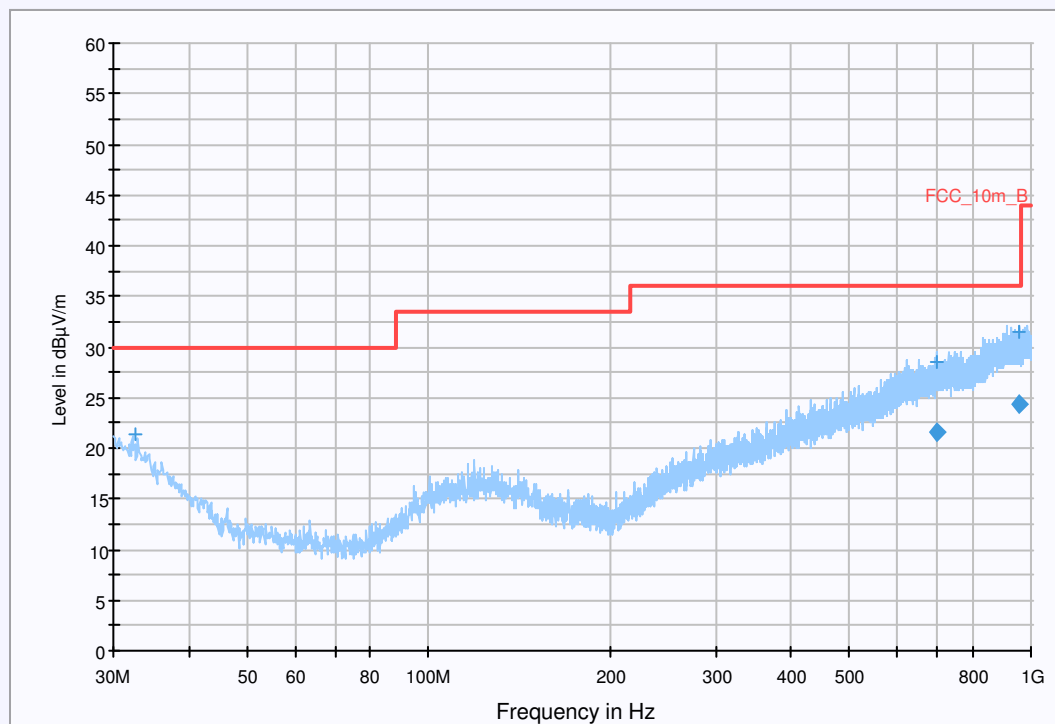
Information

EUT: W.H. Mandolyn International Ltd.; Weather Station WS2300U
 Serial Number: - / -
 Test Description: FCC part 15 B class B @ 10m
 Operating Conditions: active
 Operator Name: Hennemann
 Comment: DC: 3V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: EMI radiated\Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30MHz - 1GHz QuasiPeak 120kHz 15s Receiver

FCC_10m_FCCLIMIT(B)



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
697.625250	21.7	15000.000	120.000	383.0	H	18.0	24.3	14.3	36.0	
951.566800	24.4	15000.000	120.000	314.0	H	27.0	27.1	11.6	36.0	

3.1.1.6 Test Plan

EUT set-up	set. 2		
Operating mode	Application	Limit	Result
op. 1	Enclosure	FCC part 15 B class B RSS-210 Issue 7	passed

Remarks:	- / -
-----------------	-------

3.1.1.7 Radiated Limits

Frequency- range	47CFR15: (FCC part 15 B) Class B RSS-210 Issue 7*	47CFR15: (FCC part 15 B) Class A RSS-210 Issue 7
30 MHz – 88 MHz	30 dBμV/m	39,1 dBμV/m
88 MHz – 216 MHz	33,5 dBμV/m	43,5 dBμV/m
216 MHz – 960 MHz	36 dBμV/m	46,4 dBμV/m
960 MHz – 2000 MHz	44 dBμV/m	49,5 dBμV/m
	* This values are recalculated from the class B limits at 3 m antenna distance in §15.109 (g 2) of the FCC rules	

3.1.1.8 Calibration Information

Device	Serial number	ICT Number	Calibration valid until	Calibration interval
ESCI 3 Receiver	100083/003	300003312	01/2009	24 month
BiLog Antenna	2110	300000573	01/2009	24 month
Remarks: System check of all relevant devices and the chamber (weekly) Cable loss: 0.9 to 9.6 dB (30 MHz to 2 GHz); the cable and connectors loss is re-measured every 3 month				

3.1.1.9 Test Results

CETECOM ICT Services GmbH

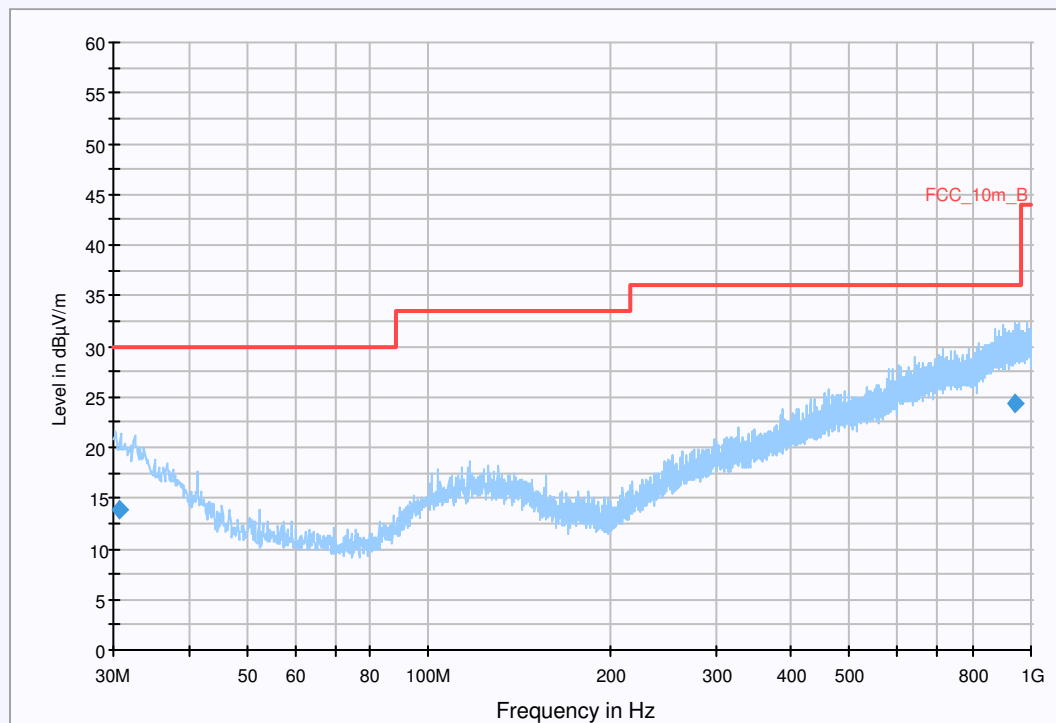
Information

EUT: W.H. Mandolyn International Ltd.; Weather Station WS2211
 Serial Number: -/
 Test Description: FCC part 15 B class B @ 10m
 Operating Conditions: active
 Operator Name: WAL
 Comment: DC: 3V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: EMI radiated\Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30MHz - 1GHz QuasiPeak 120kHz 15s Receiver

FCC_10m_FCCLIMIT(B)



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
30.615762	13.8	15000.000	120.000	285.0	H	358.0	18.0	16.2	30.0	
939.554400	24.3	15000.000	120.000	135.0	H	142.0	27.1	11.7	36.0	

3.1.1.10 Test Plan

EUT set-up	set. 3		
Operating mode	Application	Limit	Result
op. 1	Enclosure	FCC part 15 B class B RSS-210 Issue 7	passed

Remarks:	- / -
-----------------	-------

3.1.1.11 Radiated Limits

Frequency- range	47CFR15: (FCC part 15 B) Class B RSS-210 Issue 7*	47CFR15: (FCC part 15 B) Class A RSS-210 Issue 7
30 MHz – 88 MHz	30 dBμV/m	39,1 dBμV/m
88 MHz – 216 MHz	33,5 dBμV/m	43,5 dBμV/m
216 MHz – 960 MHz	36 dBμV/m	46,4 dBμV/m
960 MHz – 2000 MHz	44 dBμV/m	49,5 dBμV/m
	* This values are recalculated from the class B limits at 3 m antenna distance in §15.109 (g 2) of the FCC rules	

3.1.1.12 Calibration Information

Device	Serial number	ICT Number	Calibration valid until	Calibration interval
ESCI 3 Receiver	100083/003	300003312	01/2009	24 month
BiLog Antenna	2110	300000573	01/2009	24 month
Remarks: System check of all relevant devices and the chamber (weekly) Cable loss: 0.9 to 9.6 dB (30 MHz to 2 GHz); the cable and connectors loss is re-measured every 3 month				

3.1.1.13 Test Results

CETECOM ICT Services GmbH

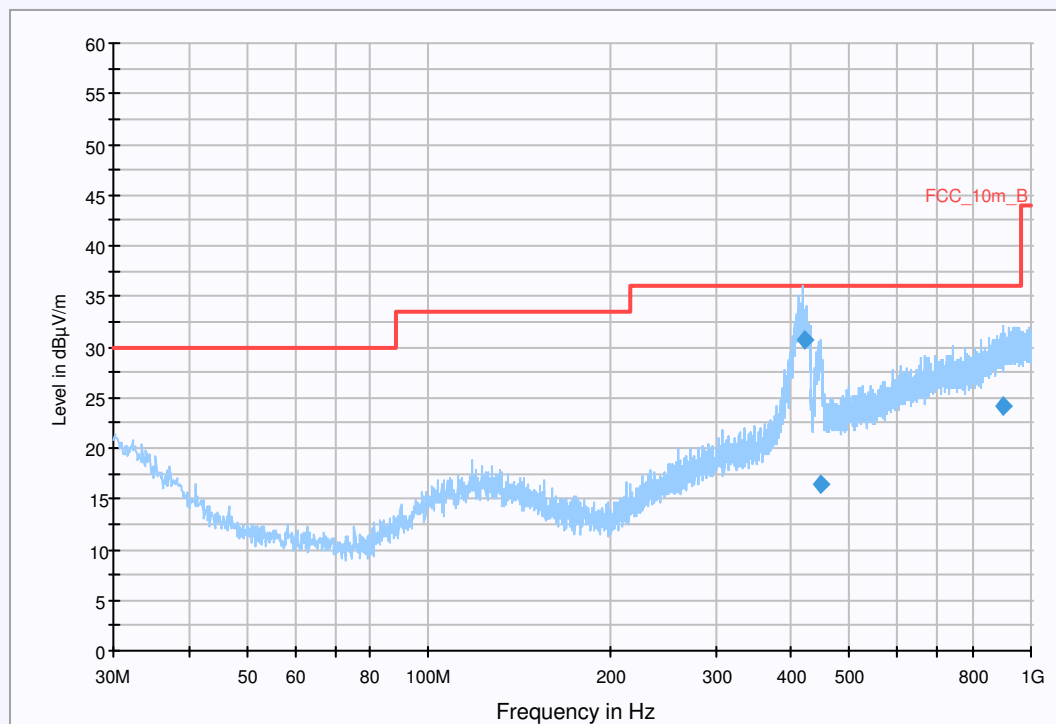
Information

EUT: W.H. Mandolyn International Ltd.; Weather Station WS1233U
 Serial Number: - / -
 Test Description: FCC part 15 B class B @ 10m
 Operating Conditions: active
 Operator Name: Hennemann
 Comment: DC: 3V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: EMI radiated\Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30MHz - 1GHz QuasiPeak 120kHz 15s Receiver

FCC_10m_FCCLIMIT(B)



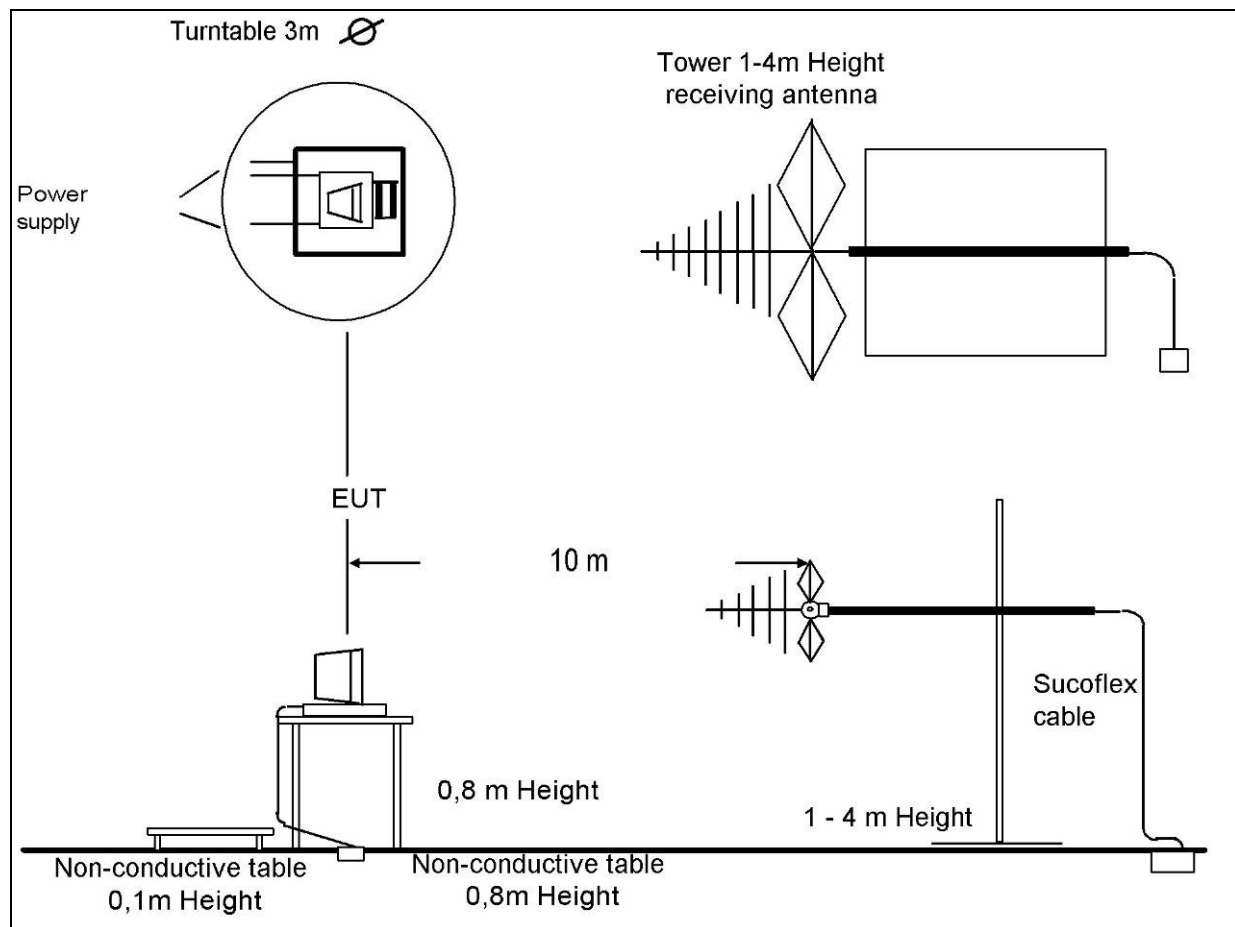
Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
419.378450	30.7	15000.000	120.000	119.0	V	58.0	19.8	5.3	36.0	
447.897100	16.5	15000.000	120.000	200.0	V	8.0	20.4	19.5	36.0	
900.600750	24.1	15000.000	120.000	311.0	V	184.0	26.9	11.9	36.0	

3.1.1.14 Hardware Set-up

Frequency Range:	30MHz - 2GHz
Receiver:	Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 3.32, CAL 07.01.2009
Signal Path:	ohne Notch
Antenna:	Chase Broadband BiLog Antenna CBL 6112 SN 2110, FW A, CAL 07.01.2009 Correction Table (vertical): Chase Broadband BiLog Antenna CBL 6112 Correction Table (horizontal): Chase Broadband BiLog Antenna CBL 6112 Correction Table: Antennenkabel mit schalter (0507)
Antenna Tower:	Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8)
Turntable:	Turntable [EMCO Turntable] @ GPIB0 (ADR 9)

3.1.1.15 Test Set-up



3.1.1.16 Photo Documentation of Test Set-up

Photo 7: setup of radiated emission of the EUT A



Photo 8: setup of radiated emission of the EUT B

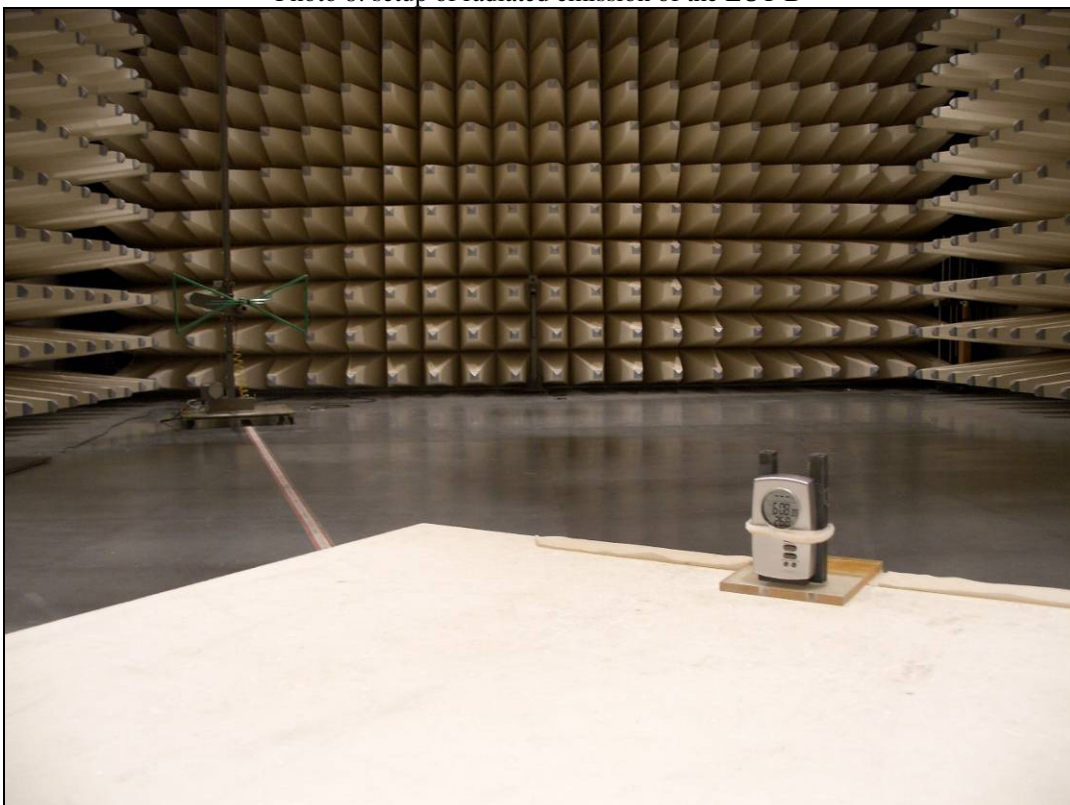
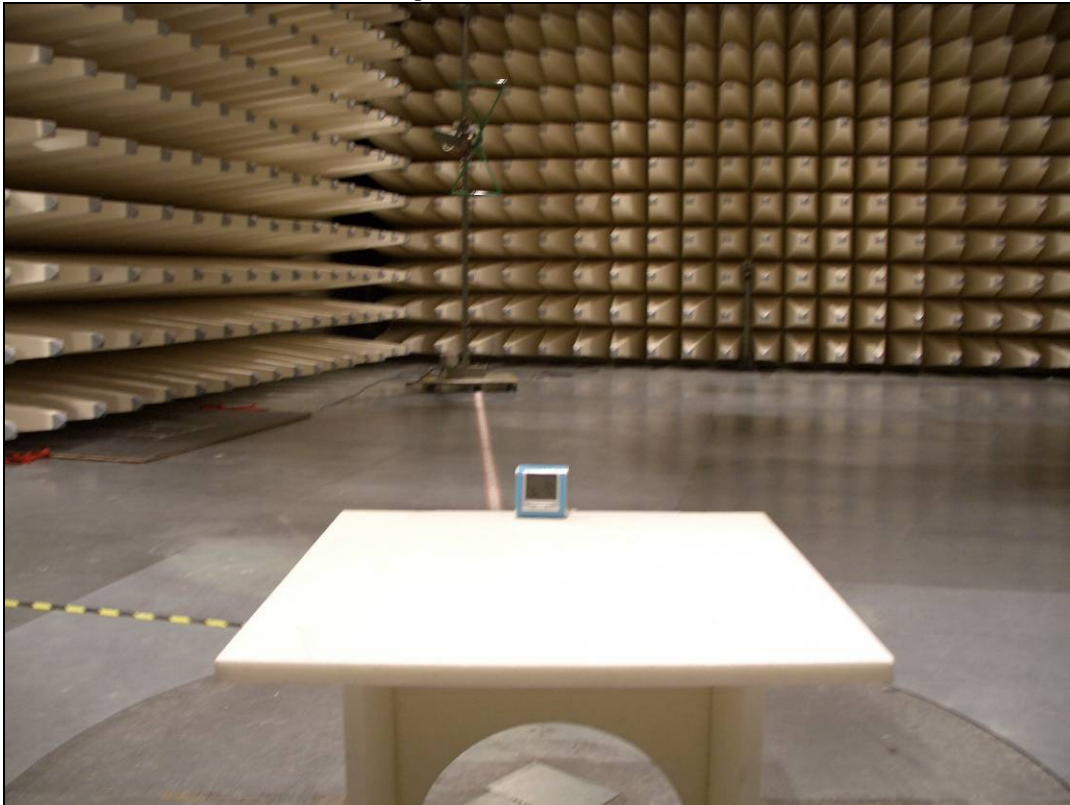


Photo 9: setup of radiated emission of the EUT C



3.1.2 Electromagnetic Radiated Emissions (Distance 3 m)

3.1.2.1 Instrumentation for Test (see equipment list)

1	2	3	4	5	6	7	14	15	16		
---	---	---	---	---	---	---	----	----	----	--	--

3.1.2.2 Test Plan

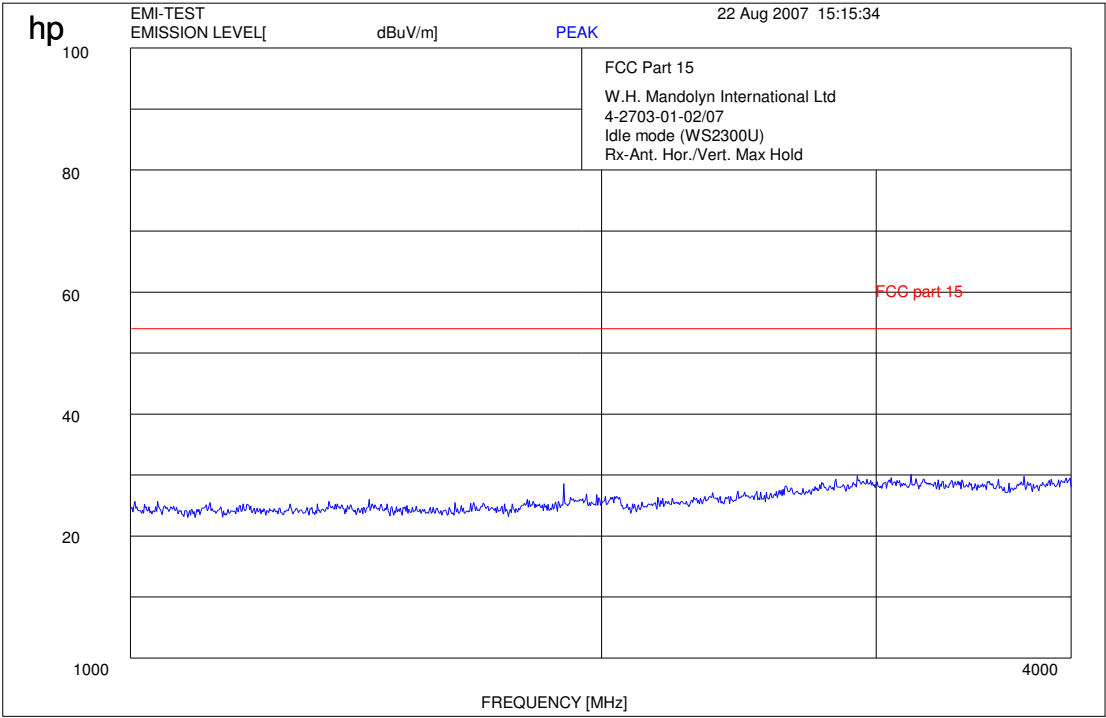
EUT set-up	set. 1		
Operating mode	Application	Limit	Result
op. 1	Enclosure	FCC part 15 B class B RSS-210 Issue 7	passed

Remarks:	- / -
-----------------	-------

3.1.2.3 Radiated Limits

Frequency- range	47CFR15: (FCC part 15 B) Class B RSS-210 Issue 7
1000 MHz – 4000 MHz	54 dBµV/m

3.1.2.4 Test Results



RBW / VBW = 1 MHz

3.1.2.5 Test Plan

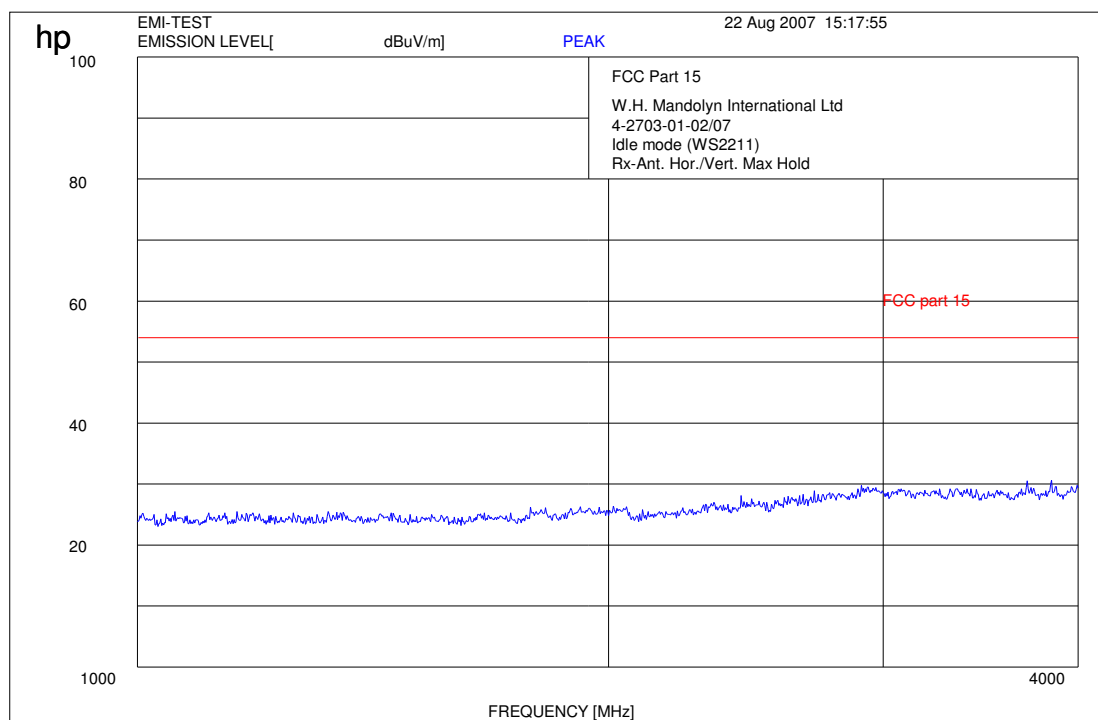
EUT set-up	set. 2		
Operating mode	Application	Limit	Result
op. 1	Enclosure	FCC part 15 B class B RSS-210 Issue 7	passed

Remarks:	- / -
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3.1.2.6 Radiated Limits

Frequency- range	47CFR15: (FCC part 15 B) Class B RSS-210 Issue 7
1000 MHz – 4000 MHz	54 dBµV/m

3.1.2.7 Test Results



RBW / VBW = 1 MHz

3.1.2.8 Test Plan

EUT set-up	set. 3		
Operating mode	Application	Limit	Result
op. 1	Enclosure	FCC part 15 B class B RSS-210 Issue 7	passed

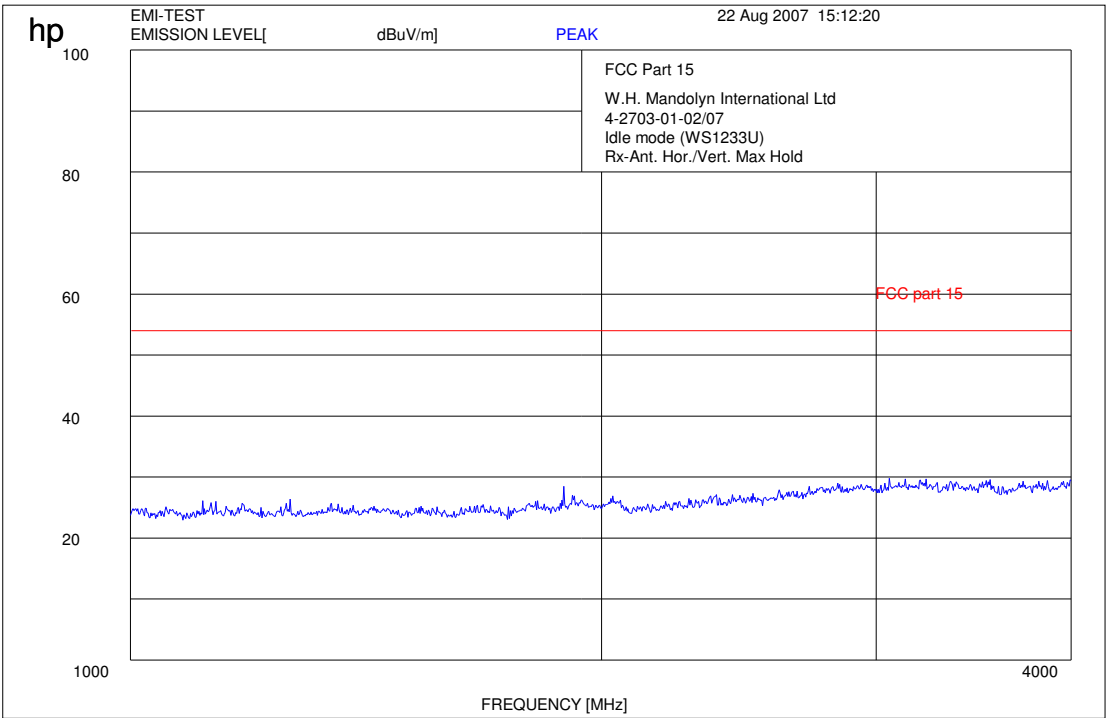
Remarks:	- / -
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3.1.2.9 Radiated Limits

Frequency- range	47CFR15: (FCC part 15 B) Class B RSS-210 Issue 7
1000 MHz – 4000 MHz	54 dBµV/m

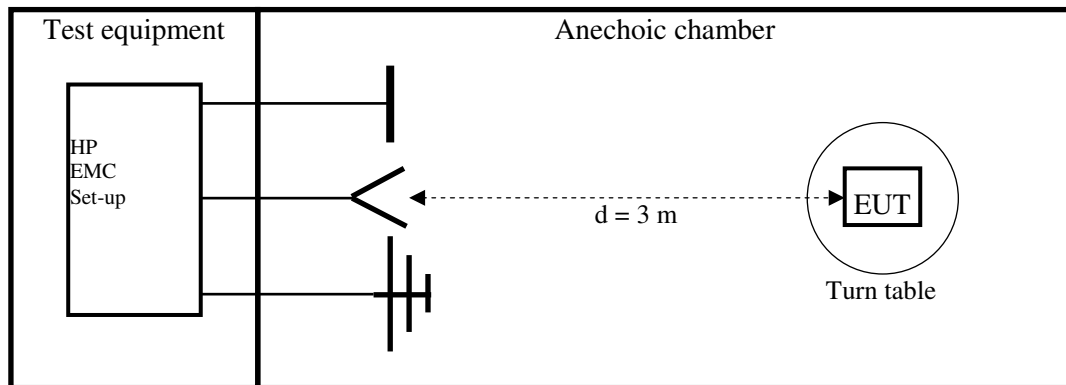


3.1.2.10 Test Results



RBW / VBW = 1 MHz

3.1.2.11 Test Set-up



3.1.2.12 Photo Documentation of Test Set-up

Photo 10: setup of radiated emission of the EUT A



Photo 11: setup of radiated emission of the EUT B

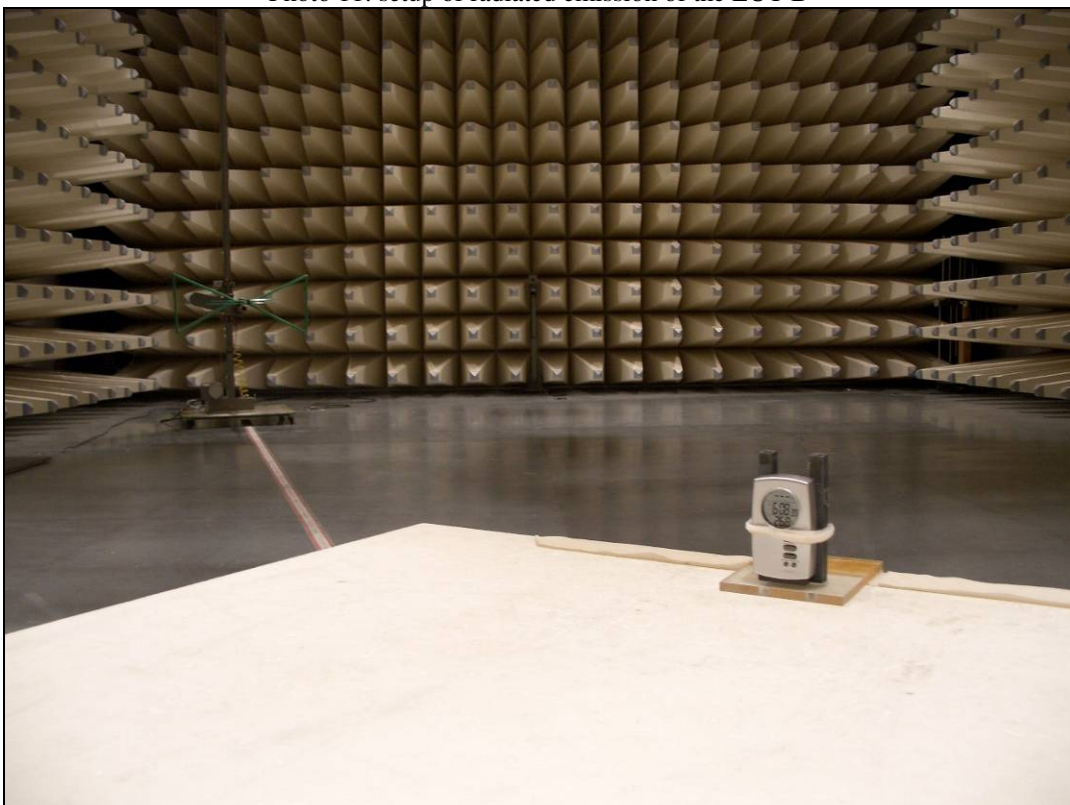


Photo 12: setup of radiated emission of the EUT C

