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Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC)

Anechoic chamber registration no.: 90402 (FCC)
Anechoic chamber registration no.: IC 3463A-1



Accredited by the German Accreditation Council DAR–Registration Number



Independent ETSI compliance test house



Accredited Bluetooth® Test Facility (BQTF)

Annex to Test report no. : 4-2445-01-04/07

Applicant : Wavecom

Test Standard : FCC Part 15 / RSS-210

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#### 1 General information

#### 1.1. Administrative data of the test facility

#### 1.1.1 Identification of the testing laboratory

Company name: Cetecom ICT Services GmbH

Address: Untertürkheimerstr. 6-10

D-66117 Saarbruecken

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-176/94-D1

Bluetooth Qualification Test Facility (BQTF)

Federal Communications Commission (FCC)

Identification/Registration No: 90462

Responsible for testing laboratory: H. Ames

Phone: +49 681 598 0 Fax: +49 681 598 9075

email: info@ict.cetecom.de

#### **1.2.** 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 generalizations 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.

Responsible for testing

(D. Gilmann)

Responsible for laboratory

(H. Ames)

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#### 1.3 **Details of Applicant**

Name : Wavecom

Address : 3 esplanade du Foncet

: 92442 Issy - Les - Moulineaux Cedex City

Country : France

: +33 (0) 1 46 29 08 00 Phone Fax : +33 (0) 1 46 29 08 08 Contact : Mr. Raphael Law-Boum Phone : +33 (0) 1 46 29 41 91 : +33 (0) 1 46 29 08 08 Fax

: raphael.lawboum@wavecom.fr e-mail

#### 1.4 **Application Details**

Date of receipt of application : 2007-02-15 Date of receipt of test item : 2007-02-28

Date(s) of test : 2007-03-02 to 2007-03-03

Date of report : 2007-03-03

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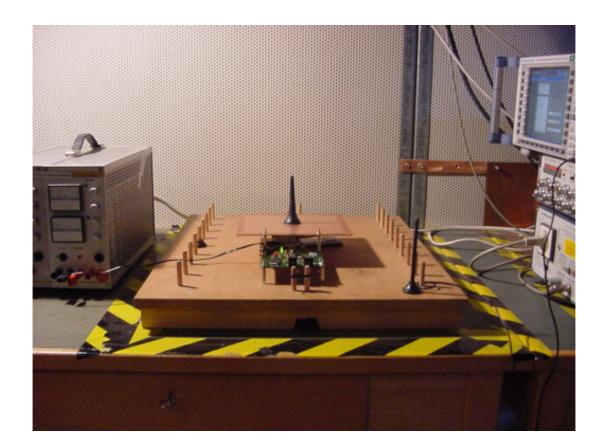
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### 1.5 Test Set-up Description

No.: 1 AC/DC Power supply with WMP100 (Zentro Elektrik)



### 1.6 Test Specifications

FCC:	CFR Part 15
IC:	RSS-210, Issue 6

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### **2** Statement of Compliance

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

### 2.1 Summary of Measurement Results

#### 2.1.1 CFR 47 Part 15 Radio frequency devices

Section in	Test Name	Verdict
this Report		
4.1	Conducted limits	Pass
4.2	Receiver spurious emission radiated (Idle mode)	Pass

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#### 3 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 20 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber.

The receiving antennas are conform with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test set-ups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received.

The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.4-2003 clause 4.2. Antennas are conform with ANSI C63.2-1996 item 15.

9 kHz – 150 kHz ,Quasi Peak measurement, 200 Hz Bandwidth, passive loop antenna. 150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth, passive loop antenna. 30 MHz - 200 MHz: Quasi Peak measurement, 120KHz Bandwidth, biconical antenna 200MHz - 1GHz: Quasi Peak measurement, 120KHz Bandwidth, log periodic antenna >1GHz: Average, RBW 1MHz, VBW 10 Hz, wave guide horn

All measurement settings are according to FCC 15.109 and 15.107

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### 4 Annex A: FCC Part 15 Subpart B

#### **4.1** Conducted Limits

#### Reference

FCC: CFR Part 15.207, 15.107

IC: RSS 210, Issue 6, Section 6.6, 7.4

**Limits:** § 15.107 / 15.207

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
	Quasi-peak	Average	
0.15 - 0.5	66 to 56 *	56 to 46 *	
0.5 – 5	56	46	
5 - 30	60	50	

<sup>\*</sup> Decreases with the logarithm of the frequency

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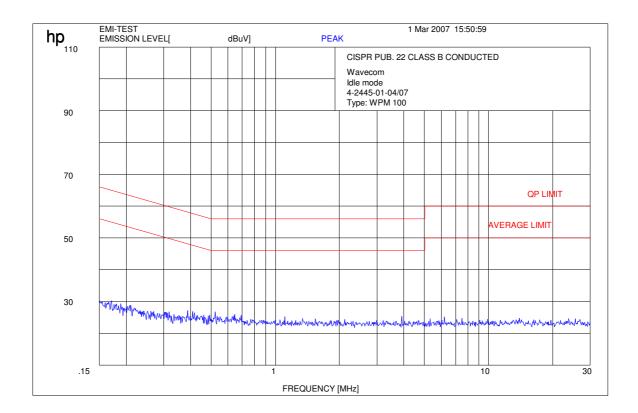
: AC/DC Power supply (Zentro Elektrik) EUT:

( with Wavecom module WMP100 )

Power AC (measured) 115 V / 60 Hz Manufacturer: Wavecom **Operating Condition** : Idle mode

Test Site: : Room 006 (Shielded chamber)

Operator: : Gillmann



Upper Limit LINE CISPPR 22 QP Lower Limit LINE CISPPR 22 AV

150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth, Setting:

L1 and N – system (max. Hold)

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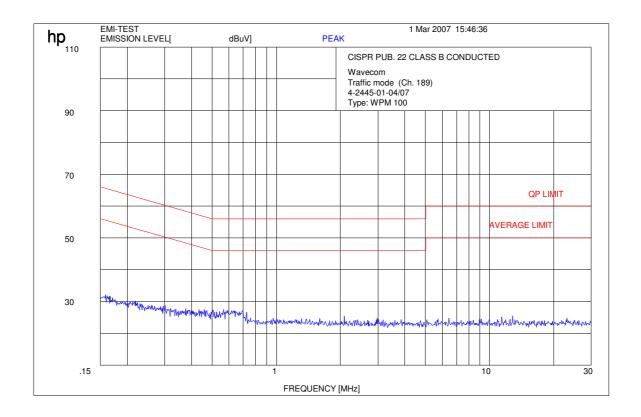
: AC/DC Power supply (Zentro Elektrik) EUT:

( with Wavecom module WMP100 )

Power AC (measured) 115 V / 60 Hz Manufacturer: Wavecom

: Traffic mode (Ch. 189) **Operating Condition** Test Site: : Room 006 (Shielded chamber)

Operator: : Gillmann



Upper Limit LINE CISPPR 22 QP Lower Limit LINE CISPPR 22 AV

Setting: 150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth,

L1 and N – system (max. Hold)

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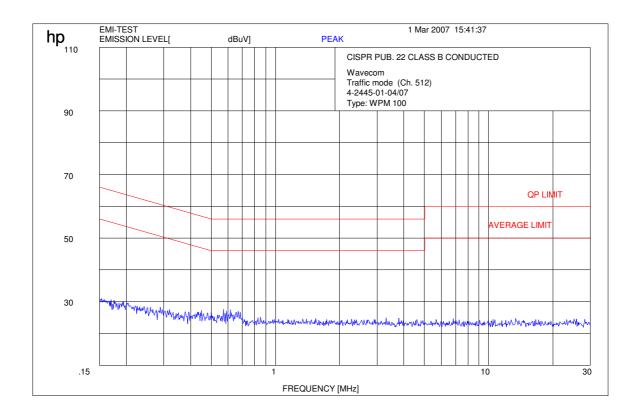
EUT: : AC/DC Power supply (Zentro Elektrik)

( with Wavecom module WMP100 )

Power AC (measured) : 115 V / 60 Hz Manufacturer: : Wavecom

Operating Condition : Traffic mode ( Ch. 512)
Test Site: : Room 006 (Shielded chamber)

Operator: : Gillmann



Upper Limit LINE CISPPR 22 QP Lower Limit LINE CISPPR 22 AV

Setting: 150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth,

L1 and N – system (max. Hold)

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### 4.2 Receiver spurious emission radiated (Idle mode)

#### Reference

FCC: CFR Part SUBCLAUSE § 15.109

IC: RSS 210, Issue 6, Section 7.3 Receiver Spurious Emissions (Radiated)

SPURIOUS EMISSIONS LEVEL (μV/m)									
MHz			MHz			MHz			
F [MHz]	Detector	Level [µV/m]	F [MHz]	Detector	Level [µV/m]	F [MHz]	Detector	Level [µV/m]	
N	Nothing found								
Nothing Iounu									
Measurement uncertainty			±3 dB	•	•				

f < 1 GHz : RBW/VBW: 100 kHz  $f \ge 1 \text{ GHz} : RBW/VBW: 1 \text{ MHz}$ 

Limits

#### SUBCLAUSE § 15.109

		SCECETIONE 3 ICITO
Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

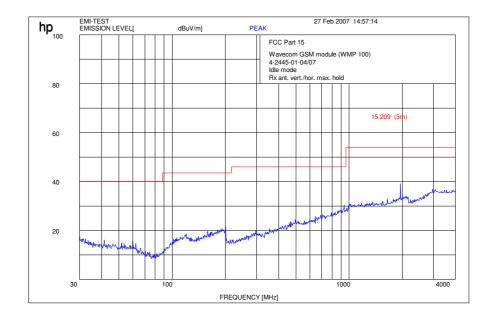
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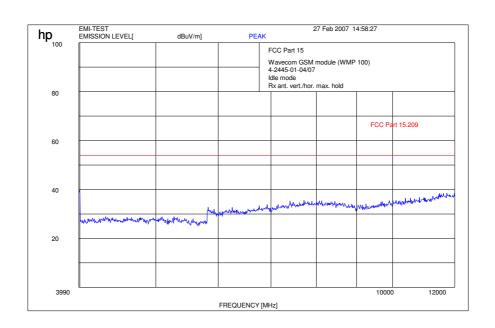
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### IDLE MODE (30 MHz - 4 GHz)



f < 1 GHz : RBW/VBW : 100 kHz  $f \ge 1 \text{GHz} : \text{RBW / VBW 1 MHz}$ 

#### Idle Mode (4 GHz – 12.0 GHz)



 $f \ge 1GHz : RBW / VBW 1 MHz$ 

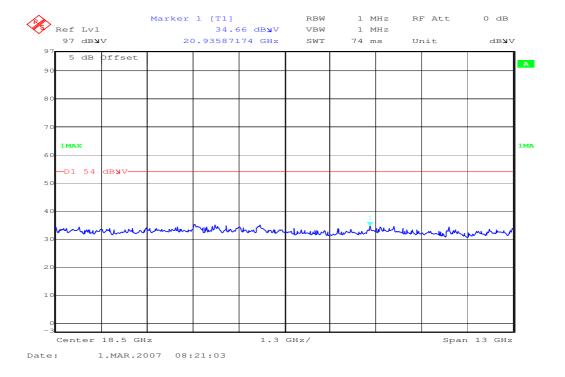
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### Idle Mode (12 GHz - 25 GHz)



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### 5 Used Testequipment

No.	Instrument/	Manufacturer	Type	Serial-No.	Internal ID	
110.	Ancillary	Manufacturer	Туре	Seriai-No.	No.	
	Anechoic chamber					
1.	Anechoic chamber	MWB		87400/02	300000996	
2.	Bi conical antenna	EMCO	3104C	9909-4868	300002590	
3.	Log. Per. antenna	EMCO	3146	2130	300001603	
4.	Double ridge horn	EMCO	3115P	3088	300001032	
5.	Active loop antenna	EMCO	6502	2210	300001015	
6.	Loop antenna	Rohde & Schwarz	HFH2-Z2	891847-35	300001169	
7.	Spectrum analyzer	Hewlett-Packard	8566B	2747A05306	300001000	
8.	Spectrum analyzer display	Hewlett-Packard	85662A	2816A16541	300002297	
9.	Quasi peak adapter	Hewlett-Packard	85650A	2811A01131	300000999	
10.	RF pre selector	Hewlett-Packard	85685A	2833A00768	400000081	
11.	Workstation	Hewlett-Packard	Vectra VL		300001688	
12.	Software	Hewlett-Packard	EMI Halle C		300000983	
13.	Power attenuator	Byrd	8325	1530	300001595	
14.	Band reject filter	Wainwright	WRCG1855/1910	7	300003350	
15.	Band reject filter	Wainwright	WRCG2400/2483	11	300003351	
16.	Power supply unit	Hewlett-Packard	6032A	2818A03450	300001040	
17.	Universal communication tester	Rohde & Schwarz	CMU 200	103992	300003231	
	communication tester					
	Laboratories Short	Range Devices				
18.	Amplifier	Parzich GMBH	js42-00502650-	928979	300003143	
	1		28-5a			
19.	Analog-/Digital multi-		DF-971A	438309,	400000082	
	meter			438320,		
				438361		
20.	Audio Analyzer 2Hz - 300 kHz	Rohde & Schwarz	UPD	841074/009	300001236	
21.	Bit error analyzer	Hewlett-Packard	37732A	3606U03073	300001446	
22.	Communication tester	Rohde & Schwarz	CMD55	831050/082	300003018	
23.	Communication test Set	Schlumberger	4040	1725117	300001387	
24.	Directional coupler	Amplifier Research	DC 3010	12709	300001226	
25.	Directional coupler	EMV	DC3010	12306	300001429	
26.	Field strength meter	EMCO	7405	9202-2150	300001203	
	(Near field probe)					
27.	Frequency Counter	Hewlett-Packard	5386A	2704A01243	300000998	
28.	Climatic chamber	Heraeus Voetsch	VT 4002	5,8566E+13	300003019	
29.	Climatic chamber	Heraeus Voetsch	VT 4002	521/83761	300002326	
30.	Power sensor	Hewlett-Packard	8484A	2237A10156	300001140	
31.	Power sensor	Hewlett-Packard	8482A	2237A06016	300001139	
32.	Power sensor	Hewlett-Packard	8484A	2237A10494	300001666	
33.	Power sensor	Hewlett-Packard	8482A	1925A04674	300001667	
34.	Power sensor	Hewlett-Packard	8485A	2238A00849	300001668	
35.	Power sensor	Hewlett-Packard	8482A	2237A06009	300001267	
36.	Power sensor	Hewlett-Packard	8482B	2703A02586	300001492	
27	(attenuator)	TT 1 D 1 1	700004	2042402221	200002010	<del>                                     </del>
37.	Local Oscillator	Hewlett-Packard	70900A	2842A02221	300002019	<del>                                     </del>
38.	Measurement Receiver	Rohde & Schwarz Siemens	ESH 2	871921/095	300002505	
39.	Multi-meter (Hand) Multi-meter (Hand)	Goerz	Multizet		300001102 300001116	<del>                                     </del>
40. 41.	Multi-meter (Hand)  Multi-meter (Hand)	MetraWatt	6EP MA4S		300001116	<del>                                     </del>
41.	Multi-meter (Hand)  Multi-meter digital	Rohde & Schwarz	UDS 5	872677/042	300001740	
43.	Power supply	Hewlett-Packard	6038A	3122A11097	300001323	
<b>+</b> J.			6038A	2848A07027	300001204	
	Power supply			20TOAU/U2/	5000011/4	i I
44.	Power supply	Hewlett-Packard Zentro		2007	300001100	
44. 45.	Power supply	Zentro	2X30V	2007 2752 A 0 4 8 6 6	300001109	
44. 45. 46.	Power supply Power supply	Zentro Hewlett-Packard	2X30V 6038A	2752A04866	300001161	
44. 45.	Power supply	Zentro	2X30V			

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	Instrument/ Ancillary	Manufacturer	Туре	Serial-No.	Internal ID No.		
50.	Power supply	Zentro	LA 2x30/5GB2	2012	300001275		
51.	Power supply	Systron	M5P 40/15A	828233	300001291		
52.	V-network AC	Rohde & Schwarz	ESH3-Z5	828576/020	300001210		
53.	Oscilloscope	Hewlett-Packard	54502A	2934A01917	300001374		
54.	Power meter	Hewlett-Packard	436A	2101A12378	300001136		$\overline{}$
55.	Power meter	Hewlett-Packard	436A	2031U01461	300001105		
56.	Precision – frequency –	Hewlett-Packard	70310A	2736A00707	300002018		_
57.	reference Radio communication	Rohde & Schwarz	CMTA 54	894043/010	300001175		_
58.	analyzer  Radio communication	Ronde & Schwarz  Rohde & Schwarz	CMTA 84	894043/010	300001175		
	analyzer						
59.	Radio communication analyzer	Rohde & Schwarz	CMTA 84	894581/013	300001355		
60.	Signal generator	Hewlett-Packard	8111A	2215G00867	300001117		
61.	Signal generator	Rohde & Schwarz	SMPC	882416/019	300001162		
62.	Function signal generator	Rohde & Schwarz	AFGU	862490/032	300001201		
63.	Function signal generator	Rohde & Schwarz	APN-04	894326/014	300001184		
64.	Signal generator 0.01- 1280 MHz	Hewlett-Packard	8662A	2224A01012	300001110		
65.	Signal generator 0.01- 1280 MHz	Hewlett-Packard	8662A	2232A01038	300001264		
66.	Signal generator 0.1- 2000 MHz	Rohde & Schwarz	SMH	864219/033	300001410		
67.	Signal generator 0.1- 2000 MHz	Rohde & Schwarz	SMH	883909/010	300001183		
68.	Signal generator 0.1- 2060 MHz	Hewlett-Packard	8657A	2838U00736	300001009		
69.	Signal generator 0.1- 4200 MHz	Hewlett-Packard	8665A	2833A00109	300001177		_
70.	Signal generator 0.1- 4200 MHz	Hewlett-Packard	8665A	2833A00112	300001373		
71.	Signal generator 0.1- 4320 MHz	Rohde & Schwarz	SMHU	2790575	300001404		
72.	Signal generator 0.1- 4320 MHz	Rohde & Schwarz	SMHU	894055/005	300001190		
73.	Signal generator DC- 600 KHz	Hewlett-Packard	8904A	2822A01213	300001157		_
74.	Signal generator DC- 600 KHz	Hewlett-Packard	8904A	2822A01214	300001158		_
75.	Signal generator DC- 600 KHz	Hewlett-Packard	8904A	2822A01203	300001367		_
76.	Function signal generator	Rohde & Schwarz	APN 04	2273637	300001395		_
77.	Signal generator NF	Rohde & Schwarz	SPN	880139/068	300001142		$\dashv$
78.	Spectrum Analyzer	Rohde & Schwarz	FSiQ26	835111/0004	300001142		$\dashv$
79.	Spectrum analyzer	Hewlett-Packard	71210A (70000)	2731A02347	300002078		$\dashv$
80.	Spectrum analyzer  Spectrum analyzer	Rohde & Schwarz	FSMS	826067/004	300000321		$\dashv$
80.	Spectrum analyzer 2		85660B	3138A07614	300001223		$\dashv$
81.	Spectrum analyzer 2 Spectrum analyzer 3	Hewlett-Packard	8566A	1925A00257	300001207		$\dashv$
83.	Spectrum analyzer	Hewlett-Packard Hewlett-Packard	70206A	2840A01553	300001098		$\dashv$
84.	Display Spectrum analyzer	Hewlett-Packard	85662A	3144A20627	300001208		=
85.	Display 2 Spectrum analyzer	Hewlett-Packard	85662	1925A00860	300002306		=
0.6	Display 3	E C	012501		200001207		4
86.	Isolating transformer	Erfi	913501	01250	300001205		_
87.	Isolating transformer	Erfi	MPL	91350	300001155		_
88.	Isolating transformer	Erfi	MPL	91350	300001151		
89.	Isolating transformer	Erfi	6210	0.504	300001179		_
90.	Isolating transformer	Grundig	RT5A	8781	300001277		
91.	Isolating transformer	Grundig	RT5A	9242	300001263		
92.	Amplifier	Hewlett-Packard	8447D	2648A04780	300001360		
93.	Amplifier	EMV	10W1000	9549	300001377	1	

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No.	Instrument/ Ancillary	Manufacturer	Туре	Serial-No.	Internal ID No.		
94.	Amplifier	EMV	25W1000	12948	300001440		
95.	Amplifier 5W	Amplifier Research	5W1000	9725	300001592		
	•						
	<b>Laboratory Blueto</b>	oth					
96.	Power splitter	Inmet Corp.	1499382		300002841		
97.	Power sensor	Rohde & Schwarz	NRV-Z1	833894/011	300002681-		
					0010		
98.	Signal generator	Rohde & Schwarz	SMIQ03	836206/0092	300002680		
99.	Bluetooth RF-test system	Rohde & Schwarz	TS8960		300002681- 0000		
100.	Signal generator	Rohde & Schwarz	SMIQ03	835541/055	300002681- 0001		
101.	Signal generator	Rohde & Schwarz	SMIQ03	835541/056	300002681- 0002		
102.	Signal generator	Rohde & Schwarz	SMP02	835133/011	300002681- 0003		
103.	Power meter	Rohde & Schwarz	NRVD	835430/044	300002681- 0004		
104.	Spectrum - analyzer	Rohde & Schwarz	FSIQ	835540/018	300002681- 0005		
105.	Switch unit	Rohde & Schwarz	SSCU		300002681- 0006		
106.	Attenuator-step	Rohde & Schwarz	RSP	834500/010	300002681- 0007		
107.	Frequency normal	Rohde & Schwarz	Rubidium		300002681- 0009		
108.	Power sensor	Rohde & Schwarz	NRV-Z1	833894/012	300002681- 0013		
	Conducted emissio	n on AC line Roo	om 006				
109.	Measurement receiver	Rohde & Schwarz	ESH3	881515/002	300002490		
110.	Measurement receiver	Rohde & Schwarz	ESVP	881487/021	300002491		
111.	Measurement receiver	Rohde & Schwarz	ESH3	890174/002	300000296		
112.	V-network AC	Rohde & Schwarz	ESH3 Z5	892475/017	300002209		
113.	V-network AC	Rohde & Schwarz	ESH3-Z5	892239/020	300002506		
114.	Software	Rohde & Schwarz	ESK-1	27/2/2020			
115.	DC power supply	Hewlett-Packard	6032A	2743A02600	300001498		
116. 117.	V-network AC V-network DC	Rohde & Schwarz	ESH3-Z5 ESH3-Z6	861189/014 893689/012	300001458 300001504		
117.	V-network DC V-network DC	Rohde & Schwarz  Rohde & Schwarz	ESH3-Z6	861406/005	300001504		
119.	V-lictwork DC	Ronde & Schwarz	E3113-Z0	801400/003	300001316		
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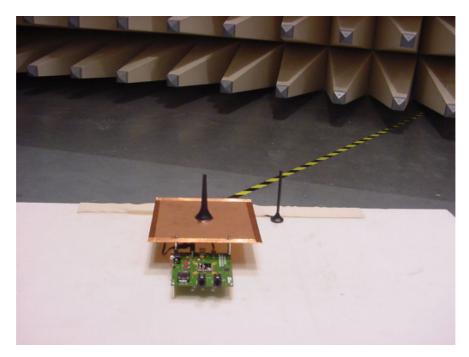
Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



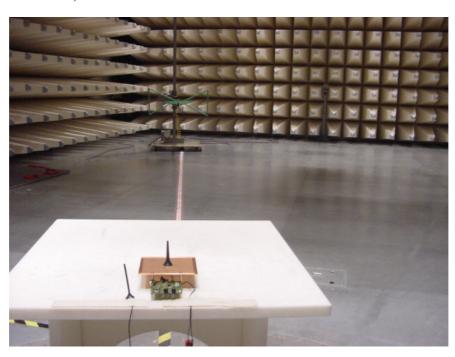
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### 6 Annex B: Photographs of Test site

### **Photo 1 (Radiated Emissions):**



#### **Photo 2 (Radiated Emissions):**



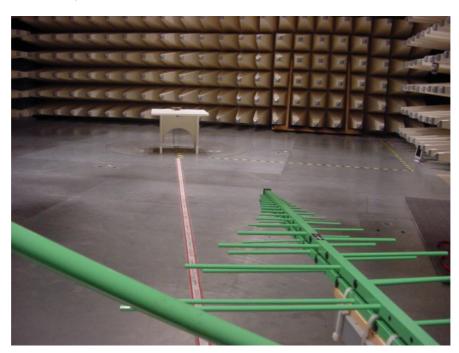
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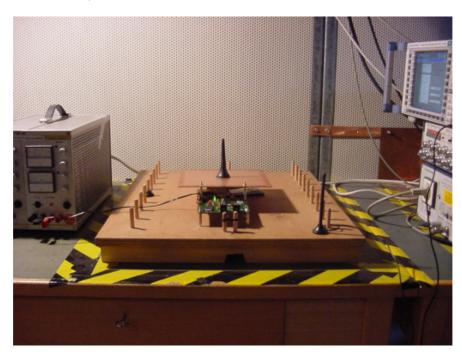


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### **Photo 3 (Radiated Emissions):**



### **Photo 4 (Conducted Emissions):**



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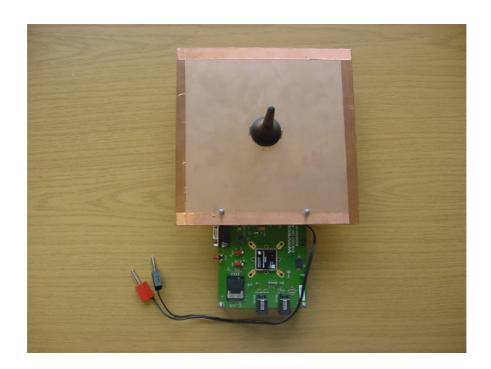
Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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### 7 Annex C: Photographs of the Equipment

### Photo 1:



#### Photo 2:



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#### Photo 3:



#### Photo 4:



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#### Photo 5:



### Photo 6:

