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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 1 of 25

Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC) Anechoic chamber registration no.: IC 3463A-1

TCB ID: DE 0001



Accredited by the German Accreditation Council DAR–Registration Number DAT-P-176/94-D1



Independent ETSI compliance test house



Accredited Bluetooth® Test Facility (BQTF)

Test report no. : 2-4458-02-06b/06 Applicant : Oticon S/A Type : BTE / RITE

Test Standard : FCC Part 15.247, 15.223

RSS-210 Issue 6

FCC ID : U28FUBTE01 Certification No. IC : 1350B-FUBTE01

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 2 of 25

Table of contents

1.	ADN	MINISTRATIVE DATA	3
		ADMINISTRATIVE DATA OF THE TEST FACILITY	
	1.1.1	yyyy	
	1.1.2		
	1.1.3		
		ADMINISTRATIVE DATA OF MANUFACTURER / MEMBER	
		DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)	5
	1.3.1	$=$ \circ	
		TEST SETUP	
	1.5	TEST SPECIFICATIONS	(
2	STA	TEMENT OF COMPLIANCE	
	2.1	SUMMARY OF MEASUREMENT RESULTS	
	2.1.1		
3	ME	ASUREMENTS AND RESULTS	8
4	FCC	C PART 15 SUBPART C	(
•			
	4.1	Timing of the transmitter	
	4.2	Field strength of the fundamental § 15.209 (a) / 15.223	
	4.3	Field strength of the harmonics and the spurious § 15.209 (a) / 15.223	
	4.4	Plots of measurements	
	4.5	Receiver spurious emission (radiated)	
	4.6	Conducted Limits	17
5	USE	ED TESTEQUIPMENT	18
6	ANN	NEX B: PHOTOGRAPHS OF TEST SITE	2 1
7	ANN	NEX C: EXTERNAL PHOTOGRAPHS OF THE EQUIPMENT	23
8	ANN	NEX D: INTERNAL PHOTOGRAPHS OF THE EQUIPMENT	24

ANNEX 1: TECHNICAL PRODUCT DESCRIPTION

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 3 of 25

1. Administrative data

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)

Responsible for testing laboratory: Harro Ames

Phone: +49 681 598 0 Fax: +49 681 598 9075 email: info@ict.cetecom.de

Responsible for testing (Stefan Bös)

1.1.2 Organizational items

Reference No.: 2-4458-02-06b/06

Order No.:

Receipt of EUT: 2007-02-13

Date(s) of test: 2007-02-13 to 2007-02-14

Date of report: 2007-02-26

Number of report pages: 25

Number of diagram pages (annex):

Version of template: 1.8

Responsible for laboratory (Harro Ames)

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 4 of 25

Note:

The test results of this test report relate exclusively to the item tested as specified in this report. 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.

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During the test no hardware and software changes are allowed to be performed at the EUT.

1.1.3 Applicant's details

Applicant's name:	Oticon A/S
Address:	Kongebakken 9 2765 Smørum Denmark
Contact person:	Mrs. Kristine Klitgaard Pedersen Phone: +45 3913 8583 Fax: +45 3927 7900 email: kkp@oticon.dk

1.2 Administrative data of manufacturer / member

Manufacturer's name:	same as applicant
Address:	

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 5 of 25

1.3 **Description of the Equipment under test (EUT)**

1.3.1 **EUT: Type, S/N etc.**

Type of equipment Hearing aid Model name BTE / RITE Manufacturer Oticon A/S Address Kongebakken 9 2765 Smørum City Country Denmark Tested to Radio Standards Specification(RSS) No. : 210 Issue 6 Open Area Test Site Industry Canada Number IC 3463A-1 Frequency Range (or fixed frequency) 3.84 MHz R F: Power in Watts < 0.000001

Field Strength (at what distance) $6.5 \mu V/m$ in 10m

Occupied Bandwidth (99% BW) 387.5 kHz

Type of Modulation A1D (inductive loop) Antenna Information Integrated Coil antenna

Emission Designator A₁D

Transmitter Spurious (worst case) 143 µV/m in 3m (noise floor)

1350B-FUBTE01 IC no. FCC ID U28FUBTE01

ATTESTATION:

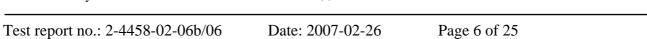
DECLARATION OF COMPLIANCE: I declare that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions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

Laboratory Manager:

Stefa h 2007-02-26 Stefan Bös Date Name

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1.4 Test Setup

Hardware : PCB rev. 04

Software : 2.0.2

1.5 Test Specifications

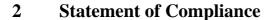
FCC: CFR Part 15.209, 15.223

IC: RSS 210, Issue 6

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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 this Report	Test Name / Section FCC Part 15	Test Name / Section RSS 210 Issue 6	applicable	Verdict
4.1	§ 15.35 (c) Timing of the transmitter (Duty cycle correction factor)		YES	pass
4.2	§ 15.209 (a) / § 15.223 FIELDSTRENGTH OF FUNDAMENTAL incl. OCCUPIED BANDWIDTH (6dB/20dB)	2.6	YES	pass
4.3	§ 15.209 (a) FIELDSTRENGTH OF HARMONICS and SPURIOUS	2.6	YES	pass
4.4	§ 15.109 Receiver spurious emissions (radiated)	2.6	YES	pass
4.5	§ 15.107 / 15.207 Conducted Limits		NO	



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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.

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 15.209 and 15.207



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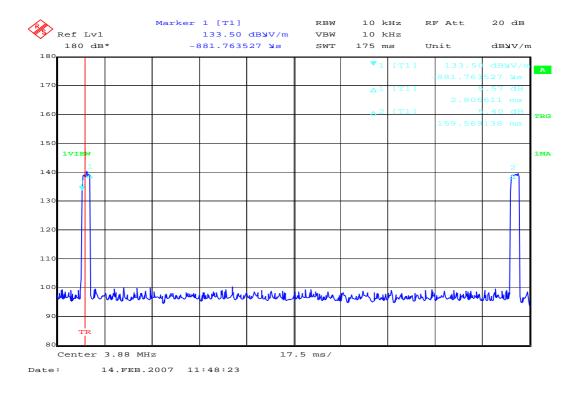
Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 9 of 25

4 FCC Part 15 Subpart C

4.1 Timing of the transmitter



Reference

FCC:	CFR Part SUBCLAUSE § 15.35 (c)
IC:	

Limits: § 15.35 (c)

(c) Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 10 of 25

4.2 Field strength of the fundamental 15.223

§ 15.209 (a) /

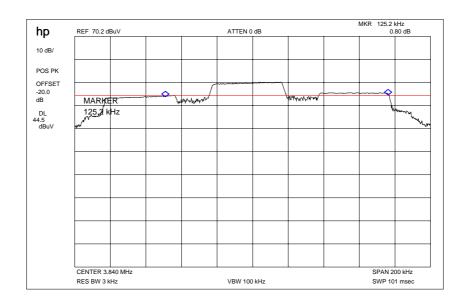
Reference

FCC: CFR Part SUBCLAUSE § 15.209 (a) / § 15.223

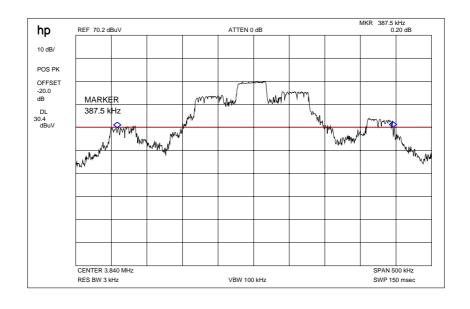
IC: RSS 210, Issue 6, 2.6

	Occupied Bandwidth (kHz)	
6 dB	125.2	
20 dB	387.5	

Plot 1: 6 dB-Bandwidth

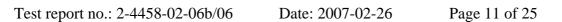


Plot 2: 20 dB-Bandwidth



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Maximum output power (quasi peak) - (radiated) Power measured

TEST CONDITIONS		MAXIMUM POWER (μV/m)		
Frequ	Frequency		3.84 MHz	
Distance		10 m	30 m	
T _{nom} +21 °C	V _{nom} 3.8V DC	$6.5~\mu V/m \\ 16~dB\mu V/m$	0.6 μV/m -4 dBμV/m	
Maximum deviation from output power under extreme test conditions (dBc)		1.0		
Measurement uncertainty		±3dB		

RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

Measurement distance 10 m

This measurement was done in 3 planes, the plot shows the worst case ase

(to convert the measuring distance from 10m to 30m and 30 to 300m a correction factor from 40 dB/decade was used. Here we use 20 dB to recalculate from 10m to 30m)

Limits SUBCLAUSE § 15.209 (a)

Fundamental Frequency	Field strength of	Measurement Distance
(MHz)	Fundamental (µV/m)	(meters)
0.009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 - 30.0	30	30
30.0 - 88.0	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

Limits SUBCLAUSE § 15.223

Fundamental Frequency	Field strength of	Measurement Distance
(MHz)	Fundamental (μV/m)	(meters)
	[15]	
1.705 – 10.0	or [6dB-BW(kHz)/F(MHz)]	30
	whichever is higher	

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 12 of 25

4.3 Field strength of the harmonics and the spurious

§ 15.209 (a) / 15.223

Reference

FCC:	CFR Part SUBCLAUSE § 15.209 (a) / § 15.223
IC:	RSS 210, Issue 6, 2.6

EMISSION LIMITATIONS				ONS	
f (MHz)		amplitude of emission (dBµV/m) Average/QP	limit max. allowed emmision power <u>at 10m</u>	actual attenuation below frequency of operation (dB)	results
No	No spurious found				
Measurement uncertainty		nt uncertainty		$\pm 3dB$	

RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

Limits

SUBCLAUSE § 15.209 (a)

Fundamental Frequency	Field strength of	Measurement Distance
(MHz)	Fundamental (µV/m)	(meters)
0.009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 - 30.0	30	30
30.0 - 88.0	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

Limits

SUBCLAUSE § 15.223

Fundamental Frequency	Field strength of	Measurement Distance
(MHz)	Fundamental (μV/m)	(meters)
1.705 - 10.0	[15]	30
	or	
	[6dB-BW(kHz)/F(MHz)]	
	whichever is higher	

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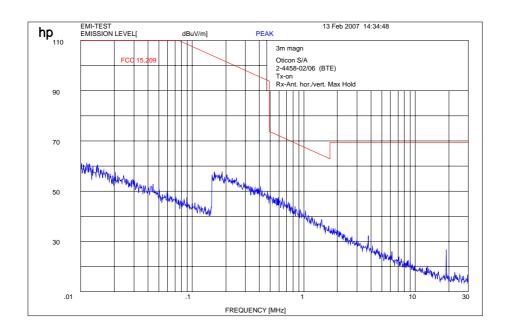
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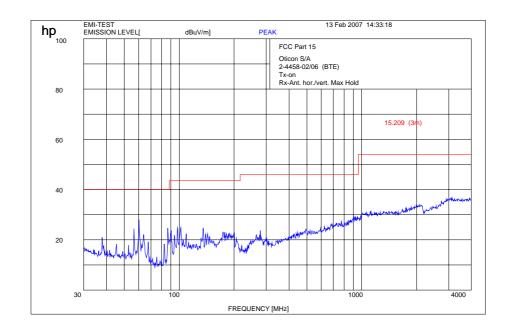
Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 13 of 25

4.4 Plots of measurements

Plot 1: Part 15.209 Magnetics TX



Plot 2: **TX (30 MHz to 4 GHz)**



RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz

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Performed in a fully anechoic chamber at 3m to get an overview about radiated emissions. This values may have some errors because of the small distance between measureing antenna and sample. Therefore we remeasured all found peaks at 10m. (see page 10)

(to convert the measuring distance from 10m to 30m and 30 to 300m a correction factor from 40 dB/decade was used. Here we use 40 dB to recalculate from 3m to 30m)

Measurement distance 3 m

This measurement was done in 3 planes, the plot shows the worst case ase

Limits

SUBCLAUSE § 15.209

CETECOM

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.0009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

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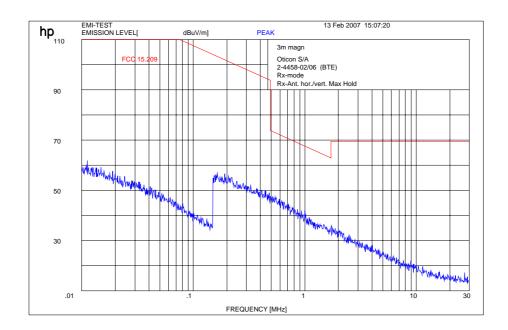
Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



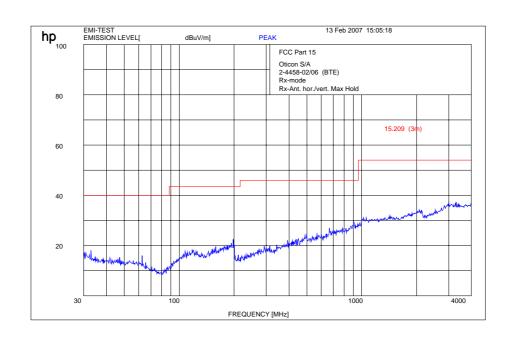
Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 15 of 25

4.5 Receiver spurious emission (radiated)

Plot 1:



Plot 2:



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CETECOM

Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 16 of 25

Reference

FCC: CFR Part SUBCLAUSE § 15.109
IC: RSS 210, Issue 6, Section 2.6

	SPURIOUS EMISSIONS LEVEL (μV/m)								
	3.84 MHz								
F [MHz]	Detector	Level [μV/m]	F [MHz]	Detector	Level [µV/m]	F [MHz]	Detector	Level [µV/m]	
No c	No critical peaks found								
Measuremen	Measurement uncertainty ±3 dB								

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

Limits

SUBCLAUSE § 15.109

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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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 17 of 25

4.6 Conducted Limits

Not applicable

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			

^{*} Decreases with the logarithm of the frequency

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 18 of 25

5 Used Testequipment

No.	Instrument/ Ancillary	Manufacturer	Туре	Serial-No.	Internal ID No.		
	Anechoic chamber				1100		
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		300003351		
16.	Power supply unit	Hewlett-Packard	6032A	2818A03450	300001040		
17.	Universal communication tester	Rohde & Schwarz	CMU 200	103992	300003231		
	Laboratories Short				_		
18.	Amplifier	Parzich GMBH	js42-00502650- 28-5a	928979	300003143		
19.	Analog-/Digital multi- meter		DF-971A	438309, 438320, 438361	40000082		
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 (Near field probe)	EMCO	7405	9202-2150	300001203		
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. 33.	Power sensor	Hewlett-Packard	8484A 8482A	2237A10494	300001666		
	Power sensor	Hewlett-Packard		1925A04674	300001667		
34. 35.	Power sensor	Hewlett-Packard Hewlett-Packard	8485A 8482A	2238A00849 2237A06009	300001668 300001267		
36.	Power sensor Power sensor	Hewlett-Packard	8482B	2703A02586	300001267		
37.	(attenuator) Local Oscillator	Hewlett-Packard	70900A	2842A02221	300002019		
38.	Measurement Receiver	Rohde & Schwarz	ESH 2	871921/095	300002019		
39.	Multi-meter (Hand)	Siemens	Multizet	0/1/21/073	300002303		
40.	Multi-meter (Hand)	Goerz	6EP		300001102		
41.	Multi-meter (Hand)	MetraWatt	MA4S		300001740		
42.	Multi-meter digital	Rohde & Schwarz	UDS 5	872677/042	300001740		
43.	Power supply	Hewlett-Packard	6038A	3122A11097	300001323		
44.	Power supply	Hewlett-Packard	6038A	2848A07027	300001204		
45.	Power supply	Zentro	2X30V	2007	300001174		
46.	Power supply	Hewlett-Packard	6038A	2752A04866	300001103		
47.	Power supply	Heiden	1108-32	1701	300001101		
			1108-32	1802		 	
48.	Power supply	Heiden	11108-32	1802	300001383		

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 19 of 25

No.	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	
55.	Power meter	Hewlett-Packard	436A	2031U01461	300001105	
56.	Precision – frequency – reference	Hewlett-Packard	70310A	2736A00707	300002018	
57.	Radio communication analyzer	Rohde & Schwarz	CMTA 54	894043/010	300001175	
58.	Radio communication analyzer	Rohde & Schwarz	CMTA 84	894199/012	300001176	
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	
78.	Spectrum Analyzer	Rohde & Schwarz	FSiQ26	835111/0004	300002678	
79.	Spectrum analyzer	Hewlett-Packard	71210A (70000)	2731A02347	300002078	
80.	Spectrum analyzer	Rohde & Schwarz	FSMS	826067/004	300000321	
81.	Spectrum analyzer 2	Hewlett-Packard	85660B	3138A07614	300001207	
82.	Spectrum analyzer 3	Hewlett-Packard	8566A	1925A00257	300001207	1
83.	Spectrum analyzer Display	Hewlett-Packard	70206A	2840A01553	300002017	
84.	Spectrum analyzer Display 2	Hewlett-Packard	85662A	3144A20627	300001208	
85.	Spectrum analyzer Display 3	Hewlett-Packard	85662	1925A00860	300002306	
86.	Isolating transformer	Erfi	913501		300001205	1
87.	Isolating transformer	Erfi	MPL	91350	300001155	
88.	Isolating transformer	Erfi	MPL	91350	300001151	
89.	Isolating transformer	Erfi	6210		300001179	
90.	Isolating transformer	Grundig	RT5A	8781	300001277	

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 20 of 25

91.	Isolating transformer	Grundig	RT5A	9242	300001263	
92.	Amplifier	Hewlett-Packard	8447D	2648A04780	300001360	
93.	Amplifier	EMV	10W1000	9549	300001377	

No.	Instrument/ Ancillary	Manufacturer	Туре	Serial-No.	Internal ID No.				
94.	Amplifier	EMV	25W1000	12948	300001440				
95.	Amplifier 5W	Amplifier Research	5W1000	9725	300001592				
	•	•							
	Laboratory Bluetooth								
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 emission	on 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	25.42.4.02.500	200001100				
115.	DC power supply V-network AC	Hewlett-Packard	6032A	2743A02600	300001498				
116. 117.		Rohde & Schwarz	ESH3-Z5 ESH3-Z6	861189/014	300001458 300001504				
117.	V-network DC V-network DC	Rohde & Schwarz Rohde & Schwarz	ESH3-Z6	893689/012 861406/005	300001504				
110.	V-Hetwork DC	Ronde & Schwarz	ESH3-Z0	801400/003	300001318				
120.									
121.									
122.									
123.									
124.									
125.									
126.									
127.									
128.									
129.									
130.									
131.									
132.									
133.					-				
134.									

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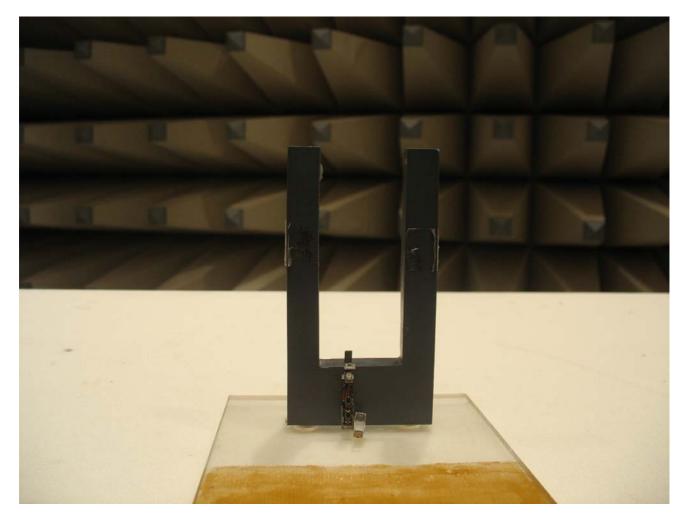
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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 21 of 25

6 Annex B: Photographs of Test site

Photo 1: Radiated Emissions



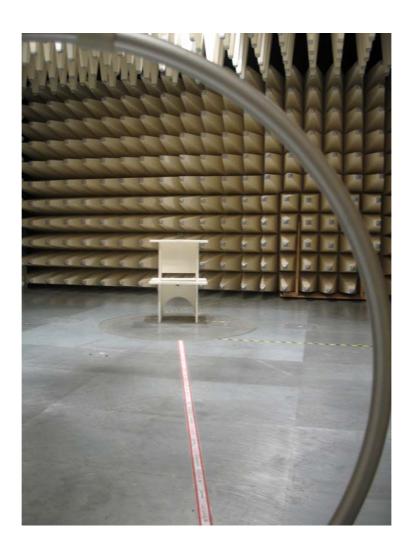
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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 22 of 25

Photo 2: Radiated Emissions



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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 23 of 25

7 Annex C: External Photographs of the Equipment

Not available, only modul without case.

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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 24 of 25

8 Annex D: INTERNAL PHOTOGRAPHS OF THE EQUIPMENT

Photo 1:

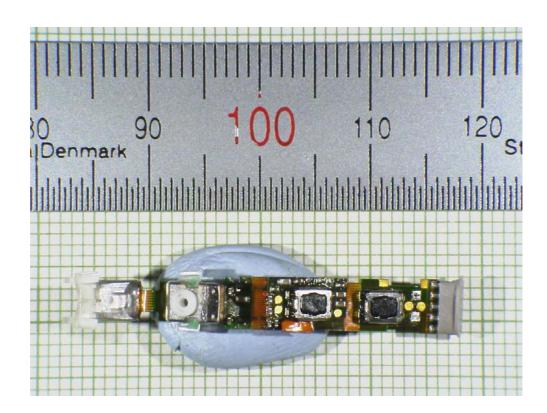
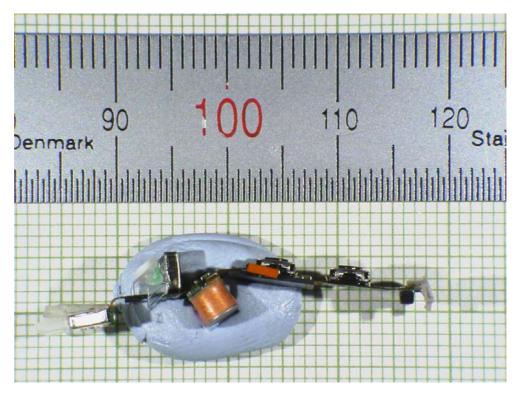


Photo 2:



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Test report no.: 2-4458-02-06b/06 Date: 2007-02-26 Page 25 of 25

Photo 3:

