
			Page 1 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

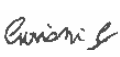
## REPORT FCC

### FCC CFR 47 PART 15

### E.M.I. Test report

Report Reference No. .... : 131348R3TRFFCC

Tested by ..... : D. Guarnone 

Approved by ..... : G. Curioni 

Date of issue ..... : 2010-02-26

Testing Laboratory ..... : **Nemko Spa**

Address ..... : Via del Carroccio, 4  
I-20046 Biassono (Italy)

Testing location/ procedure ..... : FCC CFR 47 PART 15 subpart B ☒  
FCC CFR 47 PART 15 subpart C ☒

Testing location/ address ..... : Nemko Spa - Via del Carroccio 4 - I-20046 Biassono (Italy)

Applicant's name ..... : **e-DATA GmbH**

Address ..... : Mollenbachstr.19  
71220 Leonberg

**Test specification:**

Standard ..... : FCC CFR 47 PART 15

Test procedure ..... : FCC CFR 47 (July 10, 2008)

Non-standard test method ..... : N/A

Test Report Form No. .... : TRF EMC FCC


TRF Originator ..... : Nemko Spa

Master TRF ..... : 2005-04

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Test item description ..... : **Badge reader**

Trade Mark ..... : 


Manufacturer ..... : **e-DATA GmbH**

Model ..... : **RFID TT1000**

Serial Number ..... : **102500**


Ratings ..... : 110÷ 230 Vac, 50/60 Hz

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			Page 2 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

PROJECT HISTORY		
Report number	Modification to the report / comments	Date
131348TRFFCC	First release	2009-09-17
131348R1TRFFCC	Performed new radiated emission measurements in the frequency range 30 MHz 1 GHz.	2009-11-10
131348R2TRFFCC	Added frequency stability measurement data. Corrected limits according to clause 15.225 Performed peak and average scans above 1 GHz. Classified equipment as class A equipment.	2010-02-08
131348R3TRFFCC	Removed radiated emission with rod antenna. Conducted emissions: applied 15.207 conducted limits. Added measurements of variation of radiated signal level of the fundamental frequency component of the emission performed with the supply voltage varied between 85% and 115% of the nominal rated supply. Test set up photos collected in a single paragraph.	2010-02-26
REMARKS		

PRODUCT VARIANTS COVERED BY THIS REPORT		
Variant model	Difference against the main model	Additional test performed
--	--	--
--	--	--
--	--	--
--	--	--
REMARKS		

			Page 3 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

## INDEX

<b>1) General consideration .....</b>	<b>3</b>
<b>2) Equipment Under Test (E.U.T.) description .....</b>	<b>4</b>
2.1) E.U.T general declarations .....	4
2.2) E.U.T. general description .....	4
2.3) E.U.T. configuration .....	4
2.4) E.U.T. ports .....	4
<b>3) Test Laboratory information .....</b>	<b>5</b>
<b>4) Date of test .....</b>	<b>6</b>
<b>5) Reference document.....</b>	<b>6</b>
<b>6) Test equipment list .....</b>	<b>7</b>
6.1) Test equipment list.....	7
6.2 Best measurement capability .....	7
<b>7) Test condition .....</b>	<b>8</b>
7.1) Environmental condition.....	8
7.2) E.U.T. operating condition .....	8
7.3) E.U.T. test setup .....	8
<b>8) Summary of test result .....</b>	<b>8</b>
<b>9) Test result.....</b>	<b>9</b>
9.1) Radiated emission test.....	9
9.2) Conducted emission test.....	12
9.3) Frequency tolerance of the carrier signal .....	13
<b>Annex 1 Radiated emission test plots.....</b>	<b>14</b>
<b>Annex 2 Conducted emission test plots .....</b>	<b>22</b>
<b>Annex 3 Frequency tolerance of the carrier signal test plots .....</b>	<b>24</b>
<b>Annex 4 Test set up Photos .....</b>	<b>25</b>
<b>Annex 5 E.U.T. Photos .....</b>	<b>30</b>

### **1) General consideration**

The test result presented in this report refers only to the tested item.

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Verification attaches to all items marketed by the manufacturer or importer which are identical as stated in FCC §2.908 to the sample tested and found acceptable by the manufacturer.

As Stated in §15.15 The compliance with limit expressed in FCC chapter 15 subpart B, chapter 15 subpart C will not prevent harmful interference under all circumstances.

This test report refers only to emission tests. As stated in FCC §15.17 parties responsible for the equipment are advised to keep care to electromagnetic susceptibility during the design of their equipment so as to reduce the susceptibility for receiving harmful interference.

Possible test case verdicts:

**P** = Pass, **F** = Fail, **N** = Not applicable, — = No verdict required. Placed in the column to the right (Verdict)

			Page 4 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

## 2) Equipment Under Test (E.U.T.) description

### 2.1) E.U.T general declarations

Model RFID TT1000

Manufacturer: e-DATA GmbH

Trade mark: 

Copy of marking --

Serial number: 102500

Mechanical data: Weight : --

RF frequency 13.56 MHz

Clock: 600MHz

Class A digital device NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### 2.2) E.U.T. general description

Badge reader (RFID 13.56 MHz)

### 2.3) E.U.T. configuration


The E.U.T. is composed by single unit

### 2.4) E.U.T. ports

Name	Type*	Cable Max. >3m	Cable Shielded	Description
Enclosure	N/E	—	—	—
Mains	AC	<input type="checkbox"/>	<input type="checkbox"/>	three wires
RJ12	TP I/O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	modem, RS485
RJ45	TP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ethernet
USB	I/O	<input type="checkbox"/>	<input type="checkbox"/>	

\*Note:

AC = AC Power Port	DC = DC Power Port	N/E = Non-Electrical
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			Page 5 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

I/O = Signal/Control Input or Output Port	TP = Telecommunication Ports


### **3) Test Laboratory information**

Radiated and conducted measurements were performed at Nemko S.p.a. EMC testing laboratory, located at the following address

NEMKO S.p.a.  
Via del Carroccio 4 I-20046 Biassono (Italy)

NEMKO S.p.a is CAB recognised body by MRA for FCC CFR 47 testing , see Official journal of European community L202/32 date 06/11/2002 decision 20/2002 and web link:  
<http://europa.eu.int/comm/enterprise/international/indexb1.htm>

Nemko S.p.A. measurement facility is listed according to requirements of section 2.948 of FCC rules; Nemko S.p.A. Registration number is 481407.  
<http://gulfoss2.fcc.gov/prod/oet/cf/eas/reports/TestFirmSearch.cfm>

			Page 6 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

#### **4) Date of test**


The test started on 2009-09-14 and ended on 2009-09-17. By D. Guarnone.

Radiated emission (30-1000 MHz) Retested on 2009-10-06. By G. Curioni.

Radiated emission (9 KHz-1000 MHz, 1 GHz- 6 GHz) Retested on 2010-02-05. By D. Guarnone.

#### **5) Reference document**

FCC CFR 47, Part 15	Code of Federal Regulations, Title 47 Part 15 Radio Frequency Devices Subpart B, Unintentional radiators (Last revision (July 10, 2008)).
FCC CFR 47, Part 15	Code of Federal Regulations, Title 47 Part 15 Radio Frequency Devices Subpart C, Intentional radiator (Last revision (July 10, 2008)).
CISPR 16-1-1 (Ed2.2)	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus.
ANSI C63.4-2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices Sponsored by the Accredited Standards Committee C63® —Electromagnetic Compatibility Accredited by the American National Standards Institute
CISPR 16-1-2 (Ed1.2)	Specification for radio disturbance and immunity measuring apparatus and methods Part 1-2: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances.
CISPR 16-1-4 (Ed2.2)	Specification for radio disturbance and immunity measuring apparatus and methods Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Radiated disturbances.
CISPR 16-2-1 (Ed2.0)	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements.
CISPR 16-2-3 (Ed2.0)	Specification for radio disturbance and immunity measuring apparatus and methods Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements.
NEMKO WML0177	General routines for using instruments at Nemko.
NEMKO WML0077	General routines to perform EMC tests
NEMKO WML1002	Measurement Uncertainty - Policy and Statement.

			Page 7 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

## 6) Test equipment list


### 6.1) Test equipment list

Kind of test	Equipment	Model	Manufacturer	Serial Number
Radiated Emission	Trilog Broad Band Antenna 25 MHz÷2 GHz	VULB 9168	Schwarzbeck	VULB 9168-242
Radiated Emission	EMI receiver 20 Hz ÷ 8 GHz	ESU8	R&S	100202
Radiated Emission	Semi-anechoic chamber	10m semi-anechoic chamber	Nemko	530
Radiated Emission	Shielded room	10m control room	Siemens	1947
Radiated Emission	Turn-table	HCT	R&S	835 803/03
Radiated Emission	Antenna mast	HCM	R&S	836 529/05
Radiated Emission	Controller	HCC	R&S	836 620/7
Conducted Emission	EMI receiver 9 kHz ÷ 3 GHz	R&S	ESCI	100888
Conducted Emission	LISN 9 kHz ÷ 30 MHz	ESH2-Z5	R&S	872 460/041
Conducted Emission	Shielded room	--	Siemens	009
Radiated Emission	Loop antenna	HFH2-Z2	R&S	831247/011
Radiated Emission	Bilog antenna 1 ÷ 18 GHz	Schwarzbeck	STLP 9148-123	123
Radiated Emission	Broadband preamplifier	Schwarzbeck	BBV 9718	9718-137
Environment	Thermohygrometer data loggers	175-H2	TESTO	20012380
Radiated Emission	AC power source	HP	6834A	3432A-00125

### 6.2 Best measurement capability

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 according to CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements" and is documented in the Nemko Spa Technical Procedure WML1002. 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 Nemko Spa laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	Antenna distance 1m, 3m, 10m	± 5.0 dB	(1)
Conducted Emission	9 kHz ÷ 30 MHz	± 3.0 dB	(1)

			Page 8 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

**NOTES:**

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k = 2$  which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %

## **7) Test condition**

### **7.1) Environmental condition**

Temperature	299÷304 K
Relative humidity	45÷55%
Atmospheric Pressure (QNH)	985÷1010 hPa
E.U.T. supply voltage	120 Vac
E.U.T. voltage frequency	60 Hz

### **7.2) E.U.T. operating condition**

The E.U.T. was tested with rated voltage supplied and with following operating mode:

Reading the badge

### **7.3) E.U.T. test setup**

During radiated emissions test the E.U.T. has been placed on a rotating wooden table h 0.8m over a ground reference floor. The measurement antenna has been raised up and the table has been rotated in order to find the maximum level of the emissions. The position of the the E.U.T. on the table has been changed in order to find the configuration which produce the maximum level of emissions. The Ethernet cable has been exposed for one meter on the table and connected to personal computer outside the environment of test. The telephone cable has been exposed for one meter on the table and connected to line simulator outside the environment of test.


During the conducted emission test the E.U.T. was placed in a shielded room on a wooden table h 0.8m and with a distance from shielded wall more than 0.4m. The Ethernet cable has been exposed for one meter on the table and connected to personal computer outside the environment of test. The telephone cable has been exposed for one meter on the table and connected to line simulator outside the environment of test

The E.U.T. has been supplied at 120 Vac, 60 Hz.

## **8) Summary of test result**

Port	Test	Test method	Test Result
Enclosure	Radiated emission	FCC §15.31 –FCC §15.33 – FCC §15.35 FCC §15.109, FCC §15.209	<b>P</b>
AC Power	Conducted	FCC §15.31 –FCC §15.33 – FCC §15.35 FCC §15.107, FCC §15.207	<b>P</b>



			Page 9 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

## 9) Test result

### 9.1) Radiated emission test

Test result: PASS

#### Test equipment list

The equipment used for the test is described in the following table


Kind of test	Equipment	Model	Manufacturer	Serial Number
Radiated Emission	Trilog Broad Band Antenna 25 MHz÷2 GHz	VULB 9168	Schwarzbeck	VULB 9168-242
Radiated Emission	EMI receiver 20 Hz ÷ 8 GHz	ESU8	R&S	100202
Radiated Emission	Semi-anechoic chamber	10m semi-anechoic chamber	Nemko	530
Radiated Emission	Shielded room	10m control room	Siemens	1947
Radiated Emission	Turn-table	HCT	R&S	835 803/03
Radiated Emission	Antenna mast	HCM	R&S	836 529/05
Radiated Emission	Controller	HCC	R&S	836 620/7
Conducted Emission	EMI receiver 9 kHz ÷ 3 GHz	R&S	ESCI	100888
Conducted Emission	LISN 9 kHz ÷ 30 MHz	ESH2-Z5	R&S	872 460/041
Conducted Emission	Shielded room	--	Siemens	009
Radiated Emission	Loop antenna	HFH2-Z2	R&S	831247/011
Radiated Emission	Bilog antenna 1 ÷ 18 GHz	Schwarzbeck	STLP 9148-123	123
Radiated Emission	Broadband preamplifier	Schwarzbeck	BBV 9718	9718-137
Environment	Thermohygrometer data loggers	175-H2	TESTO	20012380
Radiated Emission	AC power source	HP	6834A	3432A-00125

#### Test method description

According to CISPR 16 and according to sub part 15.31(e) of FCC CFR 47 PART 15

Radiated emission was measured on four sides of EUT with horizontal and vertical polarization of antenna, scanning with the antenna from 1 to 4 metres in height looking for the maximum emission.

Measurement distance: 10 m from 9 KHz to 30 MHz ( limits correlated by 40 dB/decade)  
10 m from 30 MHz to 6000 MHz

			Page 10 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

#### *Test Limits for Unintentional radiator*

Test limits for class A, stated in FCC §15.109 , reported in the following table, were applied


Frequency (MHz)	Filed strenght limit uV/m	Field strenght limit dBuV/m
30	90	39.1
88	90	39.1
88	150	43.5
216	150	43.5
216	210	46.4
960	210	46.4
Above 960	300	49.5

#### *Test Limits for Intentional radiator*

Test limits stated in FCC §15.209 , reported in the following table, were applied

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

			Page 11 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

#### Section 15.225 Operation within the band 13.110 – 14.010 MHz.

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15.848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

((d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

(e) The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

(f) In the case of radio frequency powered tags designed to operate with a device authorized under this section, the tag may be approved with the device or be considered as a separate device subject to its own authorization. Powered tags approved with a device under a single application shall be labeled with the same identification number as the device.

#### 15.31(e)


The measurements of input power or the radiated signal level of the fundamental frequency component of the emission has been performed from 85% of Vnominal to 115 of Vnominal ( 85% of 110 Vac, 230 Vac, 115% of 230 Vac).

Frequency	Limit at 300m	Limit at 300 m	Limit at 10 m
MHz	uV/m	dBuV/m	dBuV/m
0.009	266.7	48.5	107.6
0.49	4.9	13.8	72.9
0.49	49.0	33.8	52.9
1.705	14.1	23.0	42.1
1.705	30.0	29.5	48.6
13.11	30.0	29.5	48.6
13.11	106.0	40.5	59.6
13.41	106.0	40.5	59.6
13.41	334.0	50.5	69.6
13.553	334.0	50.5	69.6
13.553	15848.0	84.0	103.1
13.567	15848.0	84.0	103.1
13.567	334.0	50.5	69.6
13.71	334.0	50.5	69.6
13.71	106.0	40.5	59.6
14.01	106.0	40.5	59.6
14.01	30.0	29.5	48.6
30	30.0	29.5	48.6

#### Test Result

The E.U.T. complied with the test specification limits  
For test result see annex 1

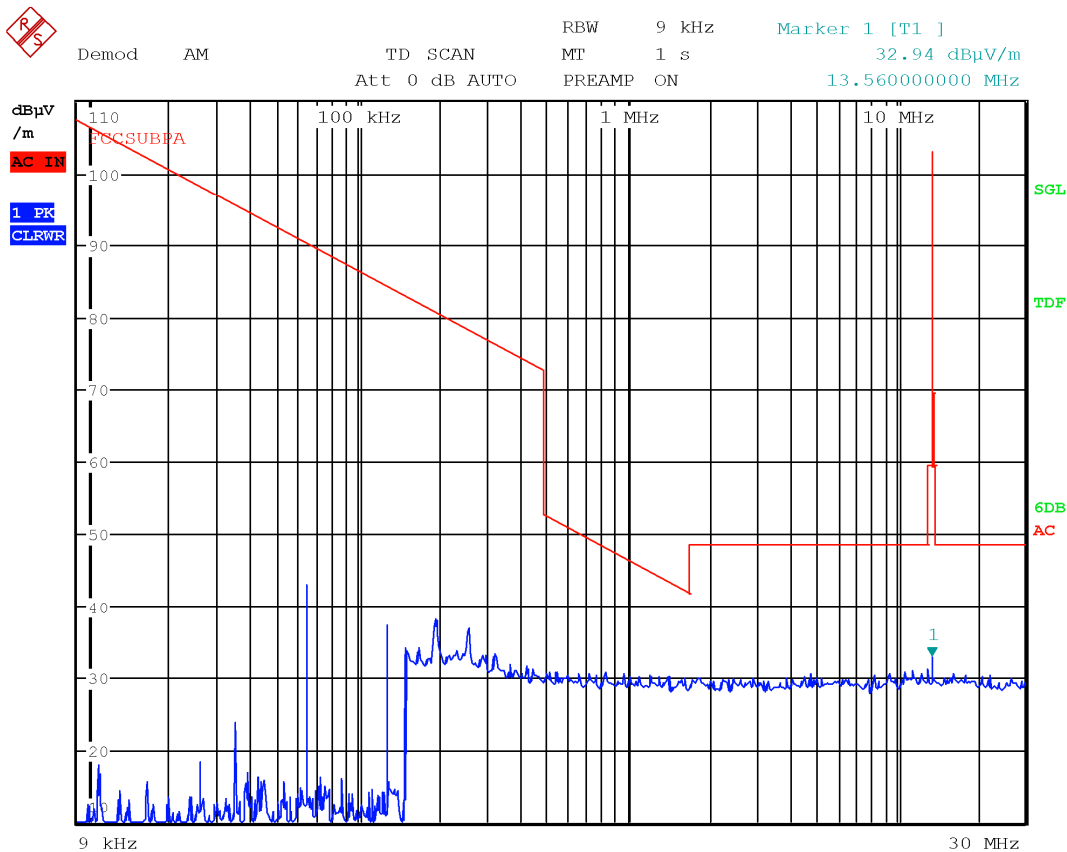


			Page 13 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

9.3) Frequency tolerance of the carrier signal			Test result: PASS
Test equipment list			
The equipment used for the test is described in the following table			
Equipment	Model	Manufacturer	Serial Number
Spectrum Analyzer 9kHz÷2000 MHz	R3261C	Advantest	51720267
Climatic Chamber	VC7150	Vötsch Industrietechnik	59566038380010
Test method description			
According to clause 6.8.1 and 6.8.2 of ANSI C63.10-2009			
The E.U.T. has been placed in climatic chamber and powered by means a programmable AC power source. The measurements of frequency tolerance versus temperature have been performed from -20 °C to + 50°C w ith 10°C step.			
The measurements of frequency tolerance versus voltage have been performed from 85% of Vnominal to 115 of Vnominal ( 85% of 110 Vac, 230 Vac, 115% of 230 Vac)			
Test Limits			
Test limits stated in 47 Section 15.225, reported in the following table, were applied			
Test Result			
The E.U.T. complied with the test specification limits See annex 3.			

**Annex 1 Radiated emission test plots**

Operation mode:      Reading the badge      Result: ■ - passed  
Remarks:      0.009 MHz to 30 MHz (loop antenna)



Date: 5.FEB.2010 11:24:18

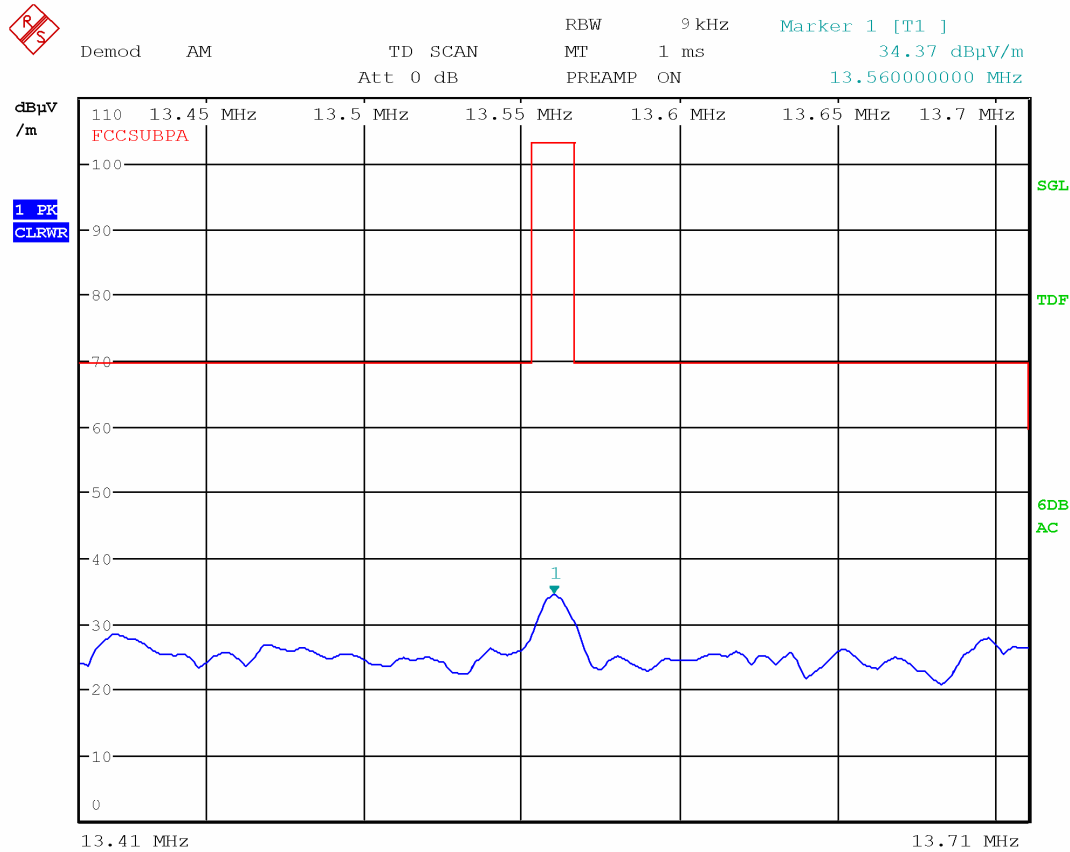
131348R3TRFFCC

Date of issue: 2010-02-26

Rev. 3

Operation mode:      Reading the badge  
Remarks:            13.110 MHz to 14.010 MHz (230 Vac)

Result: ■ - passed



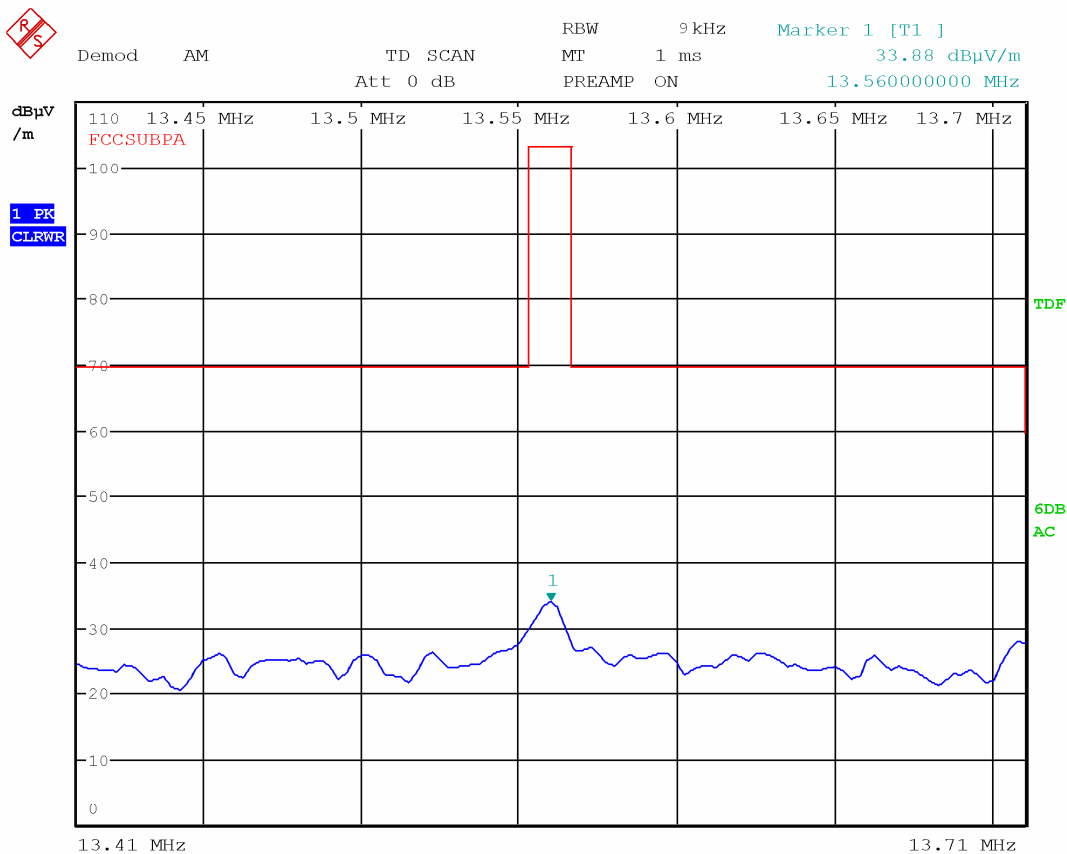
Date: 26.FEB.2010 15:00:18

Frequency (MHz)	Qp Level dBuV/m	QP limit dBuV	Remarks
13.56075	34.4	103.1	--

Operation mode:  
Remarks:

Reading the badge  
13.110 MHz to 14.010 MHz (Vnominal -15%)

Result: ■ - passed



Date: 26.FEB.2010 15:03:24

Frequency (MHz)	Qp Level dBuV/m	QP limit dBuV	Remarks
13.56075	33.8	103.1	--





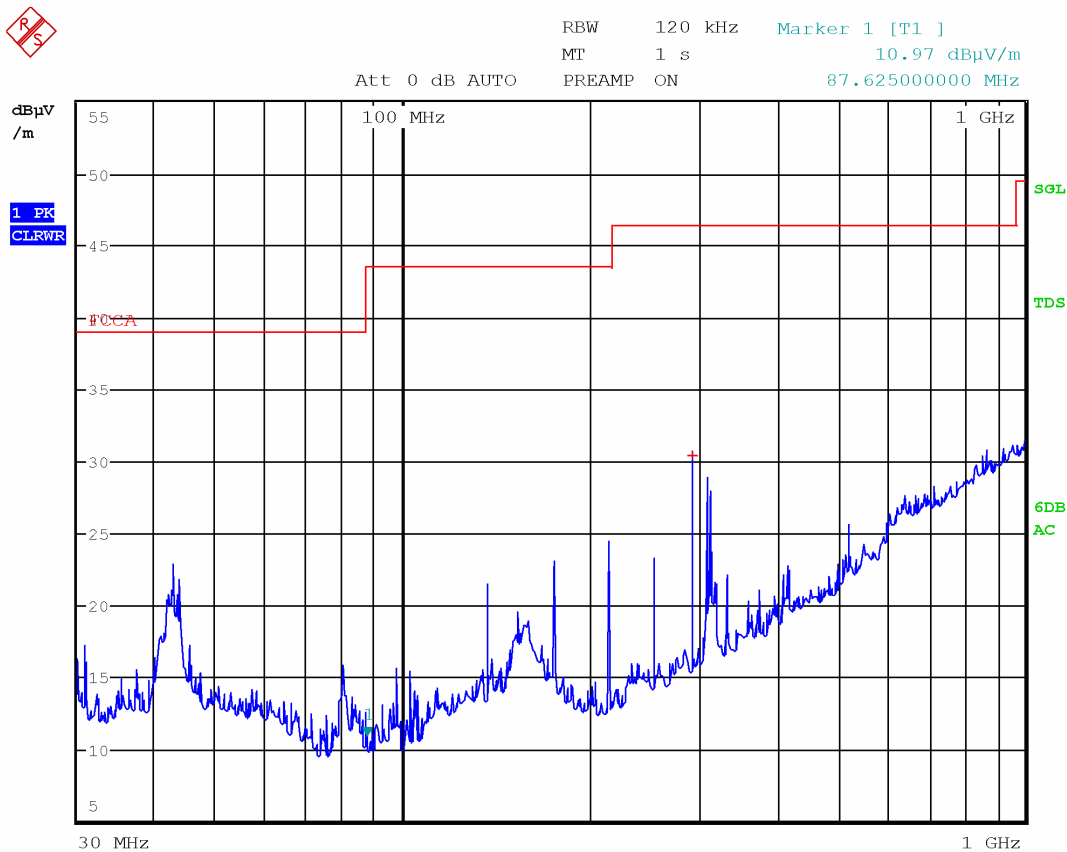
131348R3TRFFCC

Date of issue: 2010-02-26

Rev. 3

Operation mode: Reading the badge  
Remarks: Vertical Polarization  
30 MHz to 1000 MHz

Result: ■ - passed



Date: 5.FEB.2010 14:58:37

Frequency (MHz)	Qp Level dBuV/m	QP limit dBuV	Remarks
292.5	31.2	46.4	--

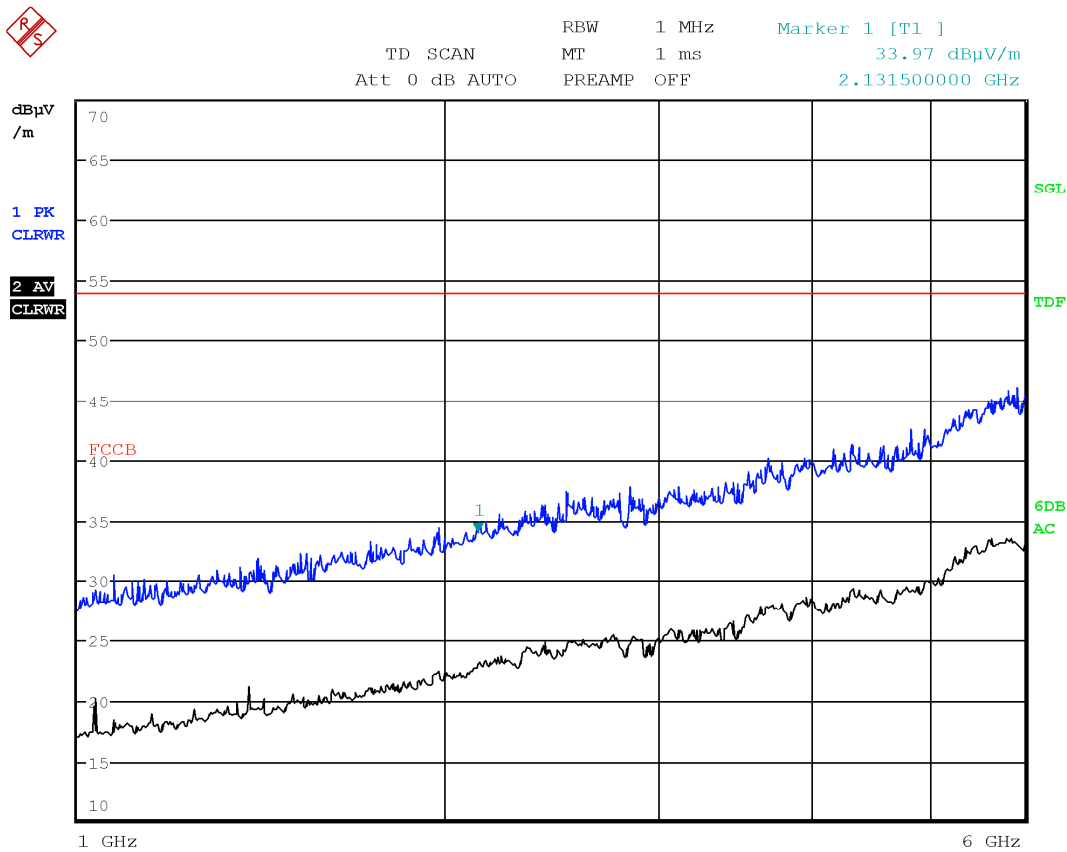
131348R3TRFFCC

Date of issue: 2010-02-26

Rev. 3

Operation mode: Reading the badge  
Remarks: Vertical Polarization  
1000 MHz to 6000 MHz

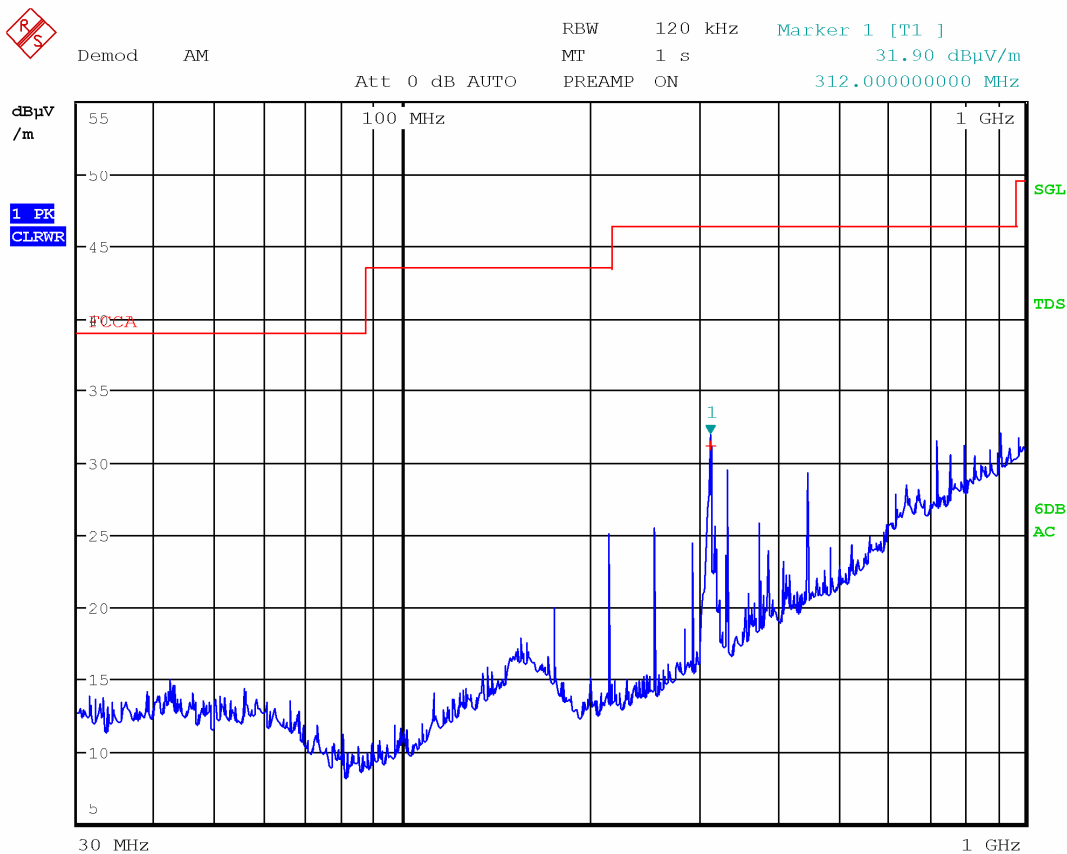
Result: ■ - passed



Date: 5.FEB.2010 15:10:10

Operation mode: Reading the badge  
Remarks: Horizontal Polarization  
30 MHz to 1000 MHz

Result: ■ - passed



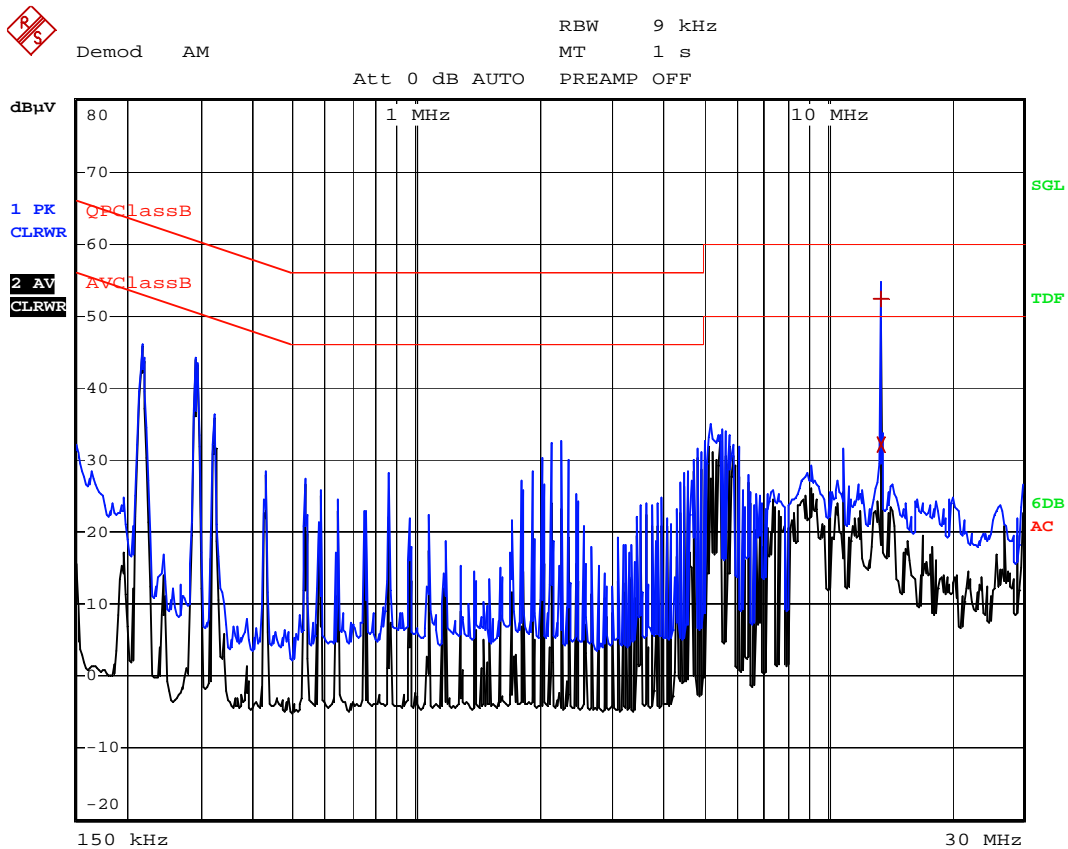
Date: 5.FEB.2010 15:01:07

Frequency (MHz)	Qp Level dBuV/m	QP limit dBuV	Remarks
312	30.7	46.4	--
--	--	--	--



**Annex 2 Conducted emission test plots**

Test point                      Phase line                      Result: ■ - passed  
Operation mode:              Reading the badge  
Remarks:



Date: 5.FEB.2010 15:20:58

Frequency (MHz)	Qp Level dBuV	QP limit dBuV	Average Level dBuV	Average Limit dBuV	Remarks
13.5580	52.4	60	32.2	50	--

131348R3TRFFCC

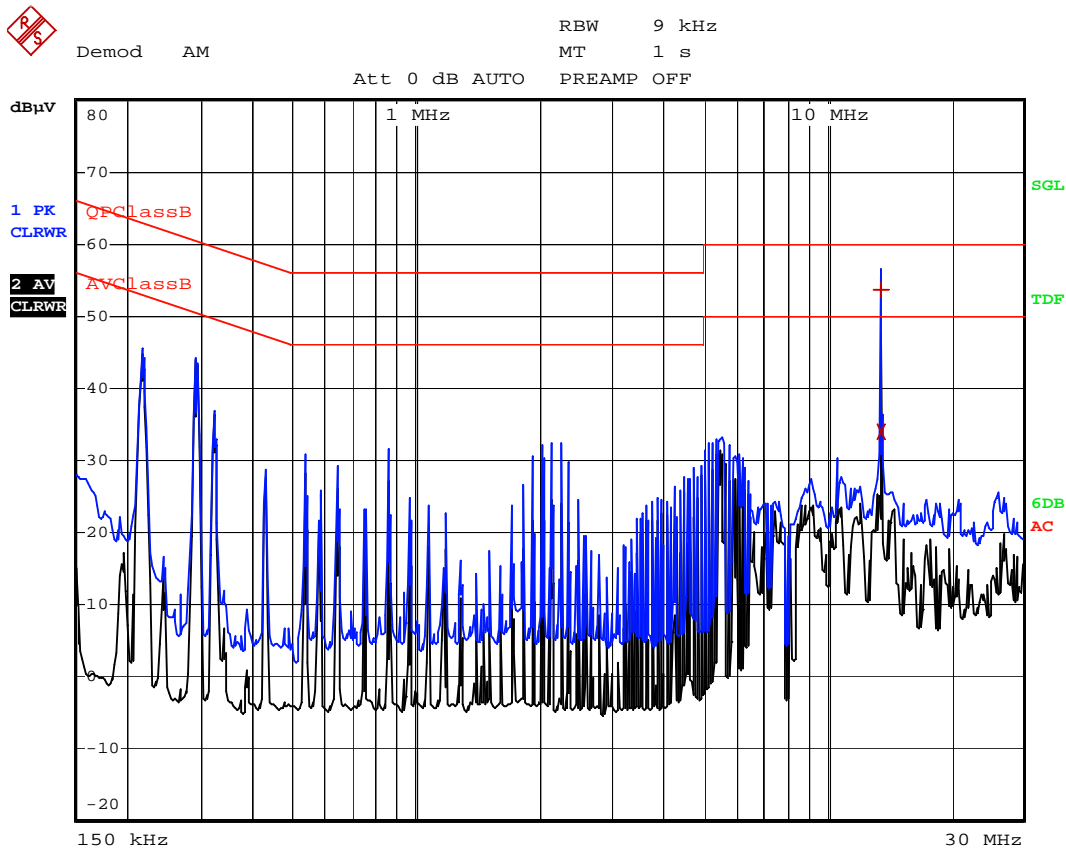
Date of issue: 2010-02-26

Rev. 3

Test point  
Operation mode:  
Remarks:

Neutral line  
Reading the badge

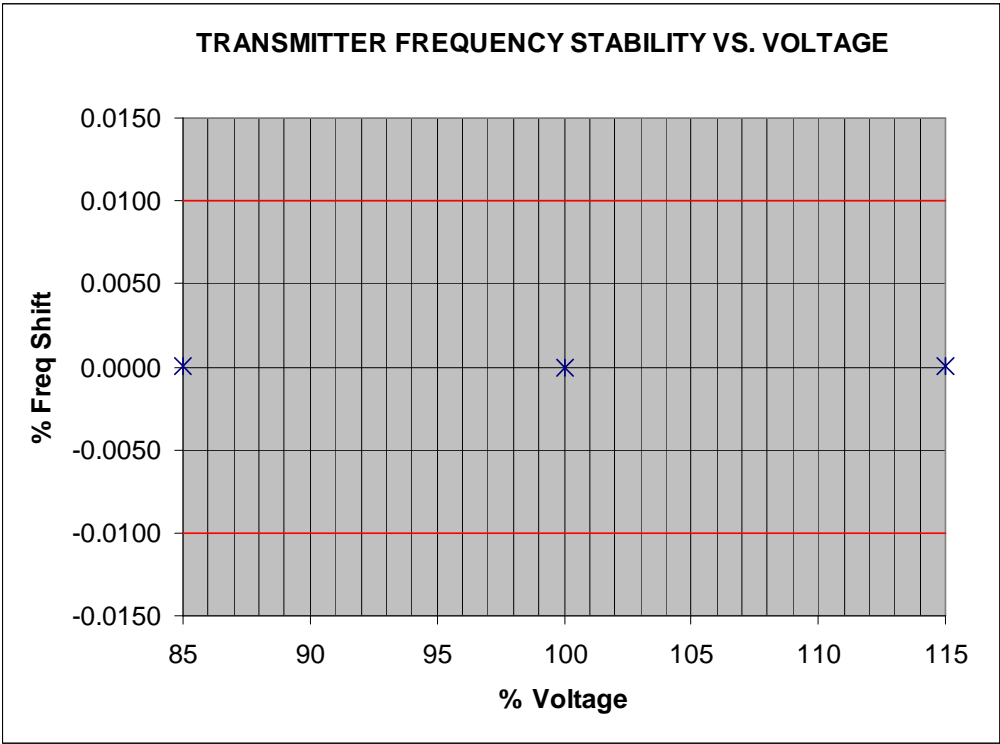
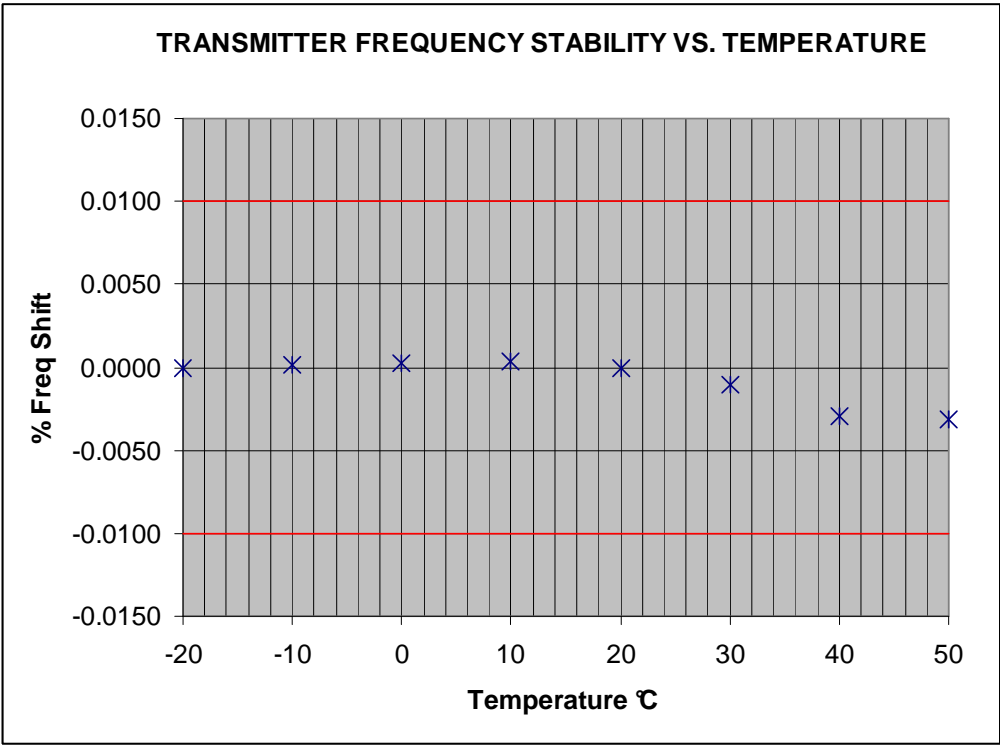
Result: ■ - passed




Date: 5.FEB.2010 15:25:29

Frequency (MHz)	Qp Level dBuV	QP limit dBuV	Average Level dBuV	Average Limit dBuV	Remarks
13.5580	53.6	60	33.9	50	--

**Annex 3 Frequency tolerance of the carrier signal test plots**

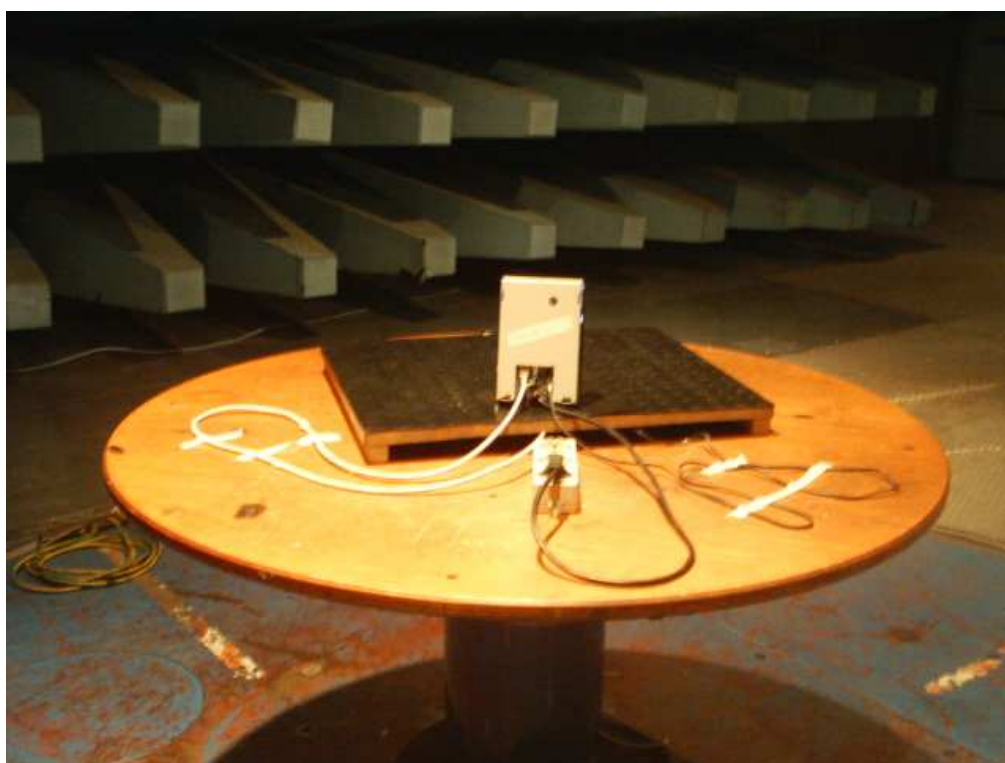




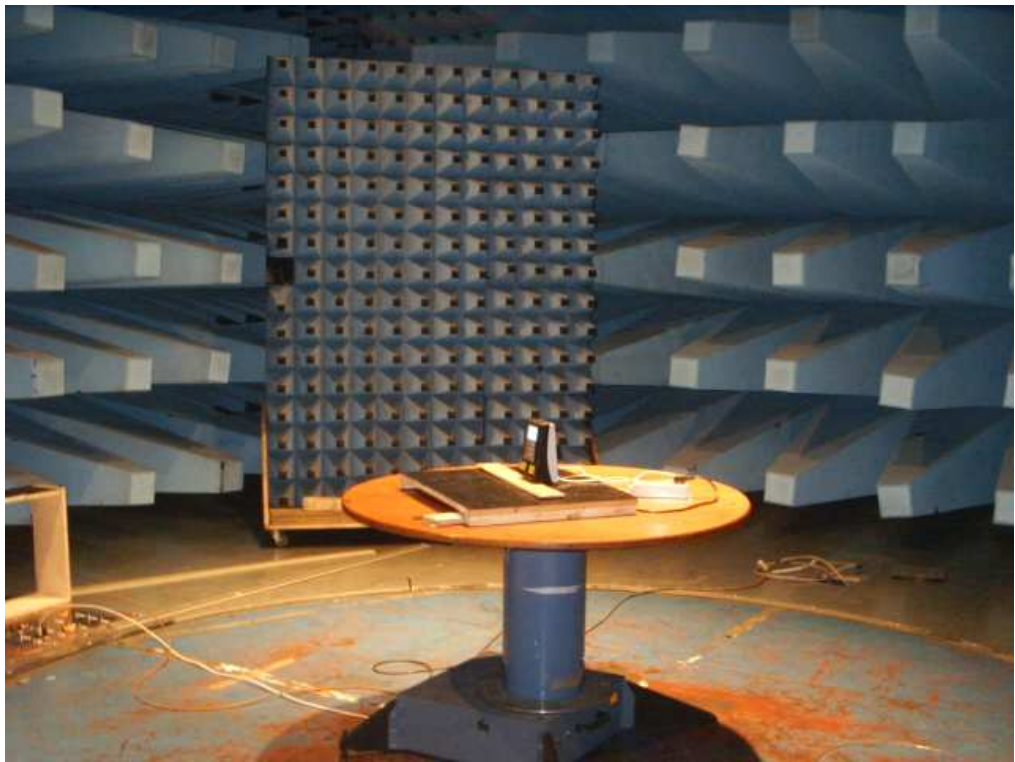
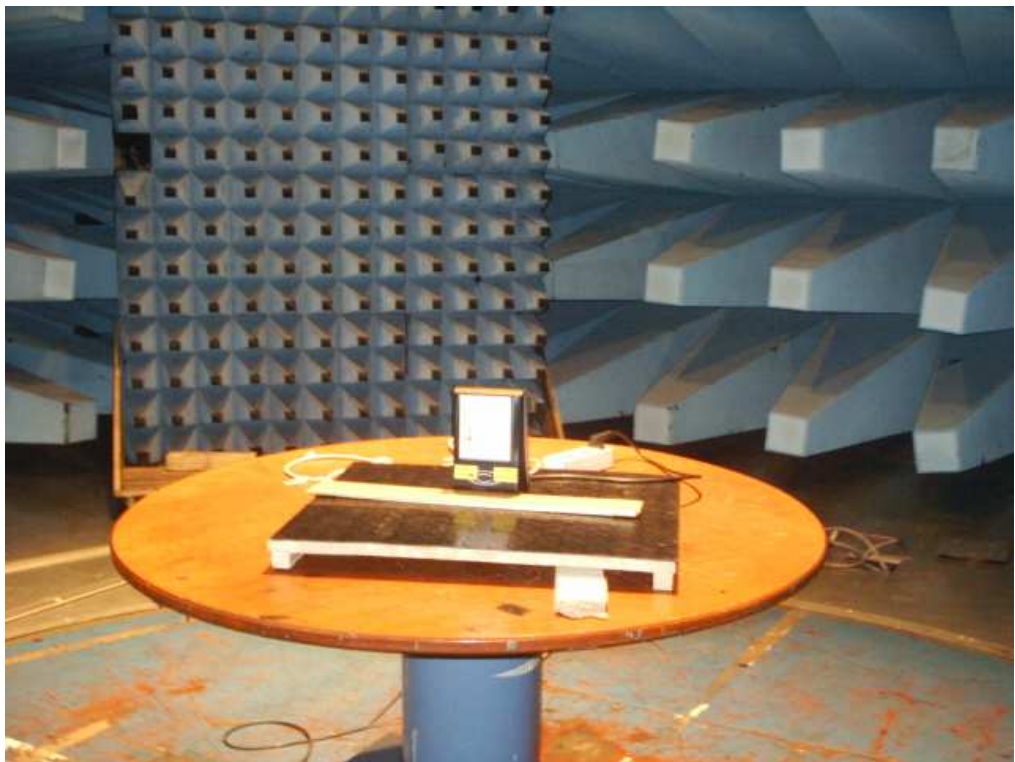
			Page 25 of 34
131348R3TRFFCC	Date of issue: 2010-02-26	Rev. 3	

## Annex 4 Test set up Photos

Radiated emissions

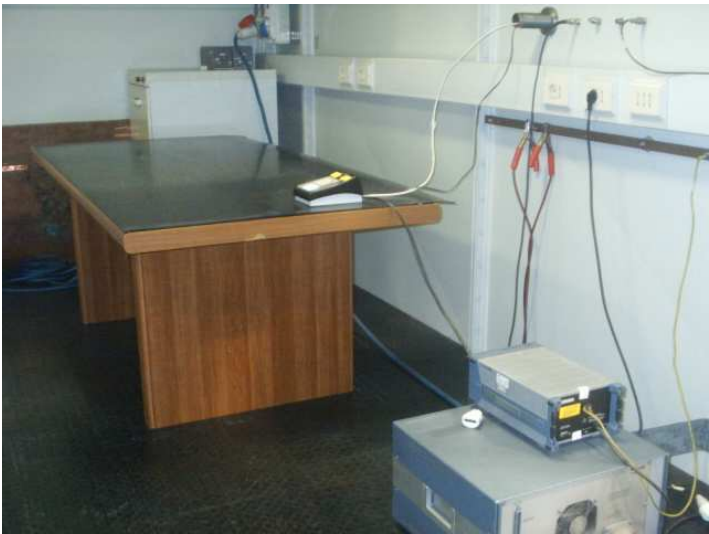








Conducted emissions



Frequency toolerance set up



**Annex 5 E.U.T. Photos**











