

TEST REPORT

Test Report Reference: F100886E2

Equipment under Test: CT-ClipCom digital SD

Applicant: CeoTronics AG

Manufacturer: CeoTronics AG

**Test Laboratory accredited by
Deutsche Gesellschaft für Akkreditierung mbH (DGA)
in compliance with DIN EN ISO/IEC 17025
under Reg. No. DGA-PL-105/99-22,**

and

**Industry Canada Test site registration 3469A-1 and
FCC Test site registration number 90877**

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1 IDENTIFICATION

1.1 APPLICANT

Name:	CeoTronics AG
Address:	Adam-Opel-Str. 6 63322 Rödermark
Country:	Germany
Name for contact purposes:	Mr. Thorsten NEUHAUS
Tel:	+49 6074 8751631
Fax:	+49 6074 8751659
e-mail address:	entwicklung@ceotronics.com

1.2 MANUFACTURER

Name:	CeoTronics AG
Address:	Adam-Opel-Str. 6 63322 Rödermark
Country:	Germany
Name for contact purposes:	Mr. Thorsten NEUHAUS
Tel:	+49 6074 8751631
Fax:	+49 6074 8751659
e-mail address:	entwicklung@ceotronics.com

1.3 DATES


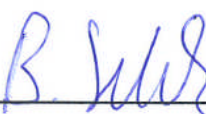

Date of receipt of test sample:	20 July 2010
Start of test:	04 August 2010
Finish of test:	12 August 2010

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1.4 TEST LABORATORY

The tests were carried out at: **PHOENIX TESTLAB GmbH**
Königswinkel 10
D-32825 Blomberg Phone: **+49 (0) 52 35 / 95 00-0**
Germany Fax: **+49 (0) 52 35 / 95 00-10**

Test Laboratory accredited by Deutsche Gesellschaft für Akkreditierung mbH (DGA) in compliance with DIN EN ISO/IEC 17025 under Reg. No. DGA-PL-105/99-22, and Industry Canada Test site registration 3469A-1 and FCC Test site registration number 90877

Test engineer:	Michael DINTER		08 October 2010
	Name		Date
Test report checked by:	Bernd SELCK		08 October 2010
	Name		Date
 PHOENIX TESTLAB GmbH Königswinkel 10 32825 Blomberg Tel. 0 52 35 / 95 00-0 Fax 0 52 35 / 95 00-10			
Stamp			

1.5 RESERVATION

This test report is only valid in its original form.

Any reproduction of its contents without written permission of the accredited test laboratory PHOENIX TESTLAB GmbH is prohibited.

The test results herein refer only to the tested sample. PHOENIX TESTLAB GmbH is not responsible for any generalisations or conclusions drawn from these test results concerning further samples. Any modification of the tested samples is prohibited and leads to the invalidity of this test report. Each page necessarily contains the PHOENIX TESTLAB Logo and the TEST REPORT REFERENCE.

1.6 NORMATIVE REFERENCES

- [1] **ANSI C63.4-2009** American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- [2] **FCC 47 CFR Part 2** General Rules and Regulations
- [3] **FCC 47 CFR Part 15** Radio Frequency Devices (Subpart B)
- [4] **ICES-003 Issue 4** Spectrum Management and Telecommunications Policy. Interference-Causing Equipment Standard. Digital Apparatus

1.7 TEST RESULTS

The requirements of this test document are fulfilled by the equipment under test. The complete test results are presented in the following.

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2 TECHNICAL DATA OF EQUIPMENT

2.1 DEVICE UNDER TEST

Marketing Name of EUT	CT-ClipCom digital SD
Article Number: *	Test Sample 3727
Type of equipment:	Small sized digital in Ear communication system

Mainboard:

Highest operating frequency	24,576 MHz *					
Supply Voltage: *	U _{Nom} =	3.6 V DC	U _{Min} =	-	U _{Max} =	-
Power Supply: *	supplied by Radio					

Module inside EUT:

Module inside	Receiver Module RCD9007
FCC ID	-
Frequency Band(s) of Operation:	916,5 MHz
No. of Channels	1 duplex
Channel frequency spacing	-
Type of Modulation	FSK
Data rate	-
Antenna type (if applicable all used antennas)	-
Antenna gain	-

* declared by the applicant.

2.2 ADDITIONAL INFORMATION

The tested samples were not marked with a type plate according to the FCC-rules.
The device under test is classified as a class B device according to FCC 47 CFR Part 15 [3] by the manufacturer.
Bluetooth module (FCC ID:QOQWT32AE and IC:5123A-BGTWT32AE) is used inside the EUT. An evaluation of the module is not part of this document.

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2.3 EXTERNAL I/O:

Ports/Connectors

Connector (Type)	Cable	Length / m	Shielding (Yes / No)	Connector (Type)
Hirose	7 wires to Headset	1.0	Yes	-

*: Length during the test.

2.4 PERIPHERY DEVICES

- Radio Motorola GP 340 (S/N:672TJGF858 with Adapter 30070842)
- Small sized digital communication system CT-Multi PTT (No. 0291001)
- In Ear Headphone Clip Com OM right (No. 0290009)
- In Ear Headphone with microphone Clip Com OM left (No. 0290007)
- Neckband transmitter RT 27 for USA 916.5 MHz (No. 9800979)
- GSM Mobile Nokia 6230i for BT connection

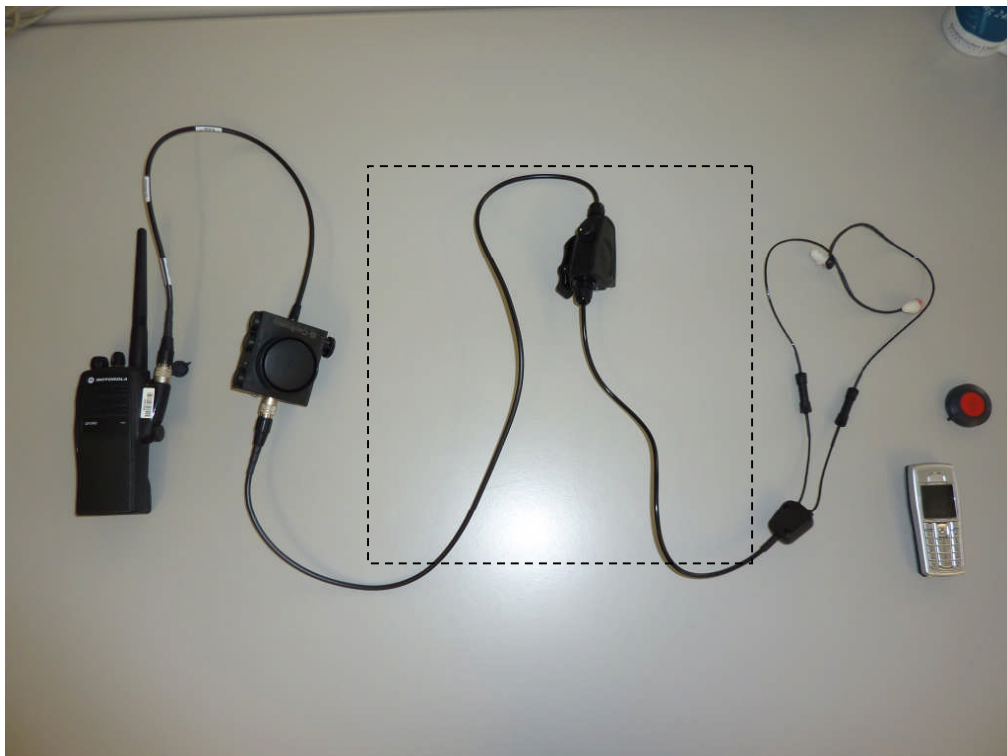
TEST REPORT REFERENCE: F100886E2

3 OPERATIONAL STATES AND PHYSICAL BOUNDARIES

The operation mode of the equipment under test was defined as follows:

- During the tests, the EUT was not sealed or labelled with a FCC-label.
- The EUT was battery supplied with 3.6 V DC and in receive mode.
- A BT link between the EUT and GSM Mobile Nokia 6230i was established and a audio link was active during the test.
- The audio lines were terminated with a in ear headphone Clip Com OM right (No. 0290009) and a in ear headphone with microphone Clip Com OM left (No. 0290007).
- The Motorola Radio GP 340 was connected and in receive mode.
- The Neckband transmitter RT 27 for USA 916.5 MHz (No. 9800979) was not in transmitting mode during the test.

The physical boundaries of the EUT are shown below:



4 EMC MEASURES

none

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5 TESTOVERVIEW

5.1 EMISSION

Conducted emissions FCC 47 CFR Part 15 section 15.107 (b) [3] / ICES-003 Issue 4 section 7.1 [4]					
Application	Frequency range	Limits	Reference standard	Remark	Status
AC supply line	0.15 to 0.5 MHz	66 to 56 dBμV (QP)* 56 to 46 dBμV (AV)*	ANSI C63.4 (2009)	Battery powered	Not Applicable
	0.5 to 5 MHz	56 dBμV (QP) 46 dBμV (AV)	CISPR 22	Charger is not part of this test	
	5 to 30 MHz	60 dBμV (QP) 50 dBμV (AV)			
*: Decreases with the logarithm of the frequency					
Radiated emissions FCC 47 CFR Part 15 section 15.109 (b) [3] / ICES-003 Issue 4 section 7.1 [4]					
Application	Frequency range	Limits	Reference standard	Remark	Status
Radiated Emission	30 to 88 MHz	40.0 dBμV/m QP at 3 m	ANSI C63.4 (2009);	class B	Passed
	88 to 216 MHz	43.5 dBμV/m QP at 3 m			
	216 to 960 MHz	46.0 dBμV/m QP at 3 m			
	960 to 1000 MHz	54.0 dBμV/m QP at 3 m			
	above 1000 MHz	54.0 dBμV/m AV at 3 m			
Radiated Emission	30 to 230 MHz	40 dBμV/m QP at 3 m	CISPR 22	class B	Passed
	230 to 1000 MHz	47 dBμV/m QP at 3 m			
	1 to 3 GHz	50/70 dBμV/m AV/PK at 3 m			
	3 to 5 GHz	54/74 dBμV/m AV/PK at 3 m			

* Decreases with the logarithm of the frequency.

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6 TEST RESULTS

6.1 RADIATED EMISSIONS

6.1.1 METHOD OF MEASUREMENT (RADIATED EMISSIONS)

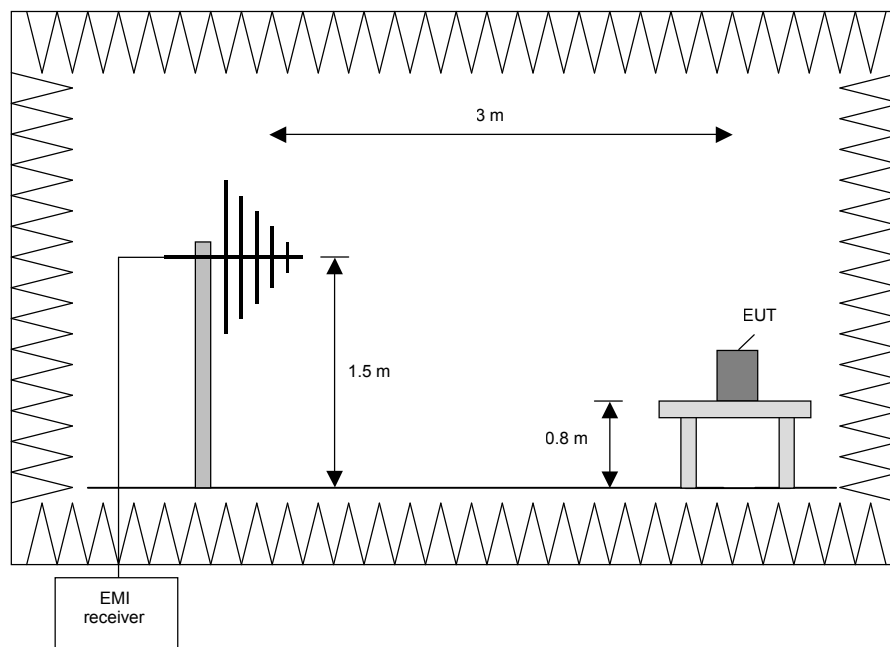
Preliminary measurement (30 MHz to 1 GHz)

In the first stage a preliminary measurement will be performed in a fully anechoic chamber with a measuring distance of 3 meter. Tabletop devices will set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices will be placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003 [1].

The frequency range 30 MHz to 1 GHz will be measured with an EMI Receiver set to MAX Hold mode and a resolution bandwidth of 100 kHz. The measurement will be performed in horizontal and vertical polarisation of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 ° to 360 °.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth
30 MHz to 230 MHz	100 kHz
230 MHz to 1 GHz	100 kHz



TEST REPORT REFERENCE: F100886E2

Procedure preliminary measurement:

Prescans were performed in the frequency range 30 MHz to 1 GHz.

The following procedure will be used:

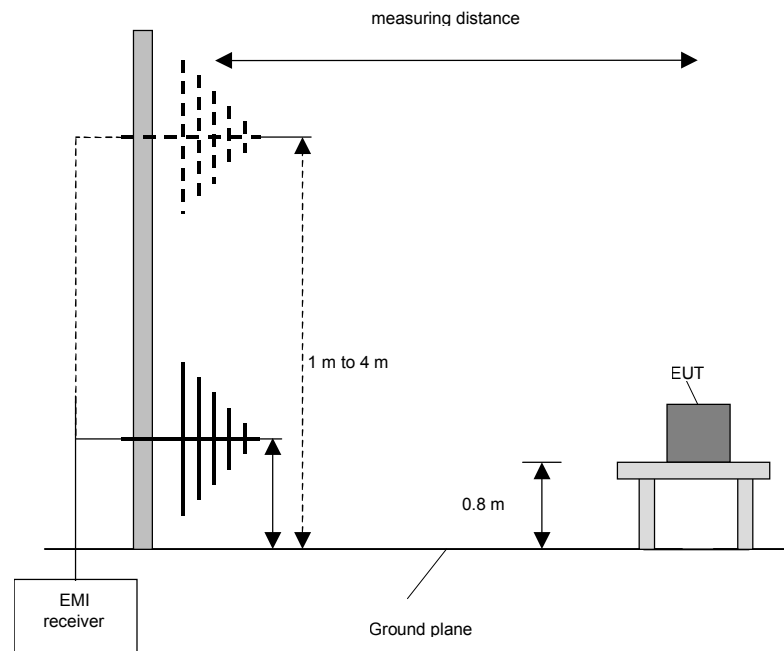
1. Monitor the frequency range at horizontal polarisation and a EUT azimuth of 0 °.
2. Manipulate the system cables within the range to produce the maximum level of emission.
3. Rotate the EUT by 360 ° to maximize the detected signals.
4. Make a hardcopy of the spectrum.
5. Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
6. Repeat 1) to 4) with the other orthogonal axes of the EUT if handheld equipment.
7. Repeat 1) to 5) with the vertical polarisation of the measuring antenna.

Final measurement (30 MHz to 1 GHz)

A final measurement on an open area test site will be performed on selected frequencies found in the preliminary measurement. During this test the EUT will be rotated in the range of 0 ° to 360 °, the measuring antenna will be set to horizontal and vertical polarisation and raised and lowered in the range from 1 m to 4 m to find the maximum level of emissions.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth
30 MHz to 1 GHz	120 kHz



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Procedure final measurement:

The following procedure will be used:

- 1) Measure on the selected frequencies at an antenna height of 1 m and a EUT azimuth of 23 °.
- 2) Move the antenna from 1 m to 4 m and note the maximum value at each frequency.
- 3) Rotate the EUT by 45 ° and repeat 2) until an azimuth of 337 ° is reached.
- 4) Repeat 1) to 3) for the other orthogonal antenna polarization.
- 5) Move the antenna and the turntable to the position where the maximum value is detected.
- 6) Measure while moving the antenna slowly +/- 1 m.
- 7) Set the antenna to the position where the maximum value is found.
- 8) Measure while moving the turntable +/- 45 °.
- 9) Set the turntable to the azimuth where the maximum value is found.
- 10) Measure with Final detector (QP and AV) and note the value.
- 11) Repeat 5) to 10) for each frequency.
- 12) Repeat 1) to 11) for each orthogonal axes of the EUT if handheld equipment.

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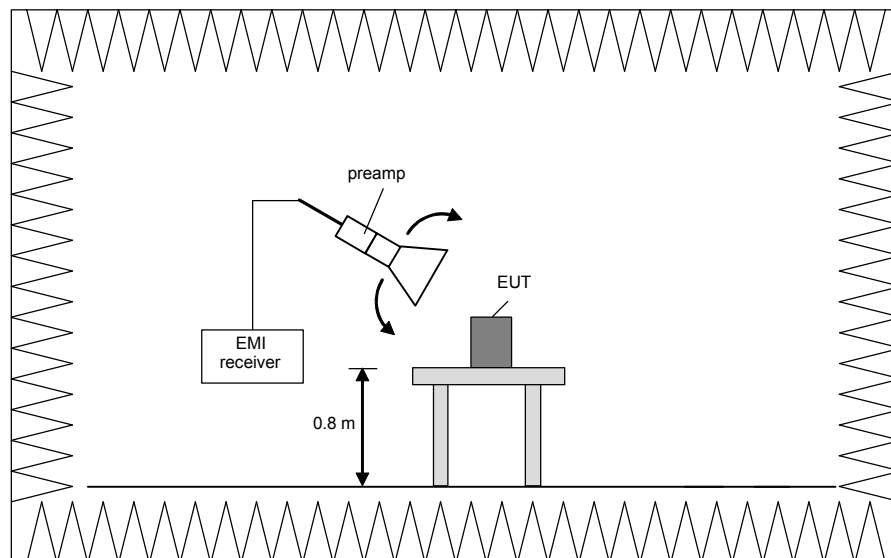
Preliminary and final measurement (1 GHz to 12.75 GHz)

This measurement will be performed in a fully anechoic chamber. Floor-standing devices will be placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003 [1]. The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth (preliminary)	Resolution bandwidth (final)
1 GHz to 12.75 GHz	100 kHz	1 MHz

Preliminary measurement (1 GHz to 12.75 GHz)

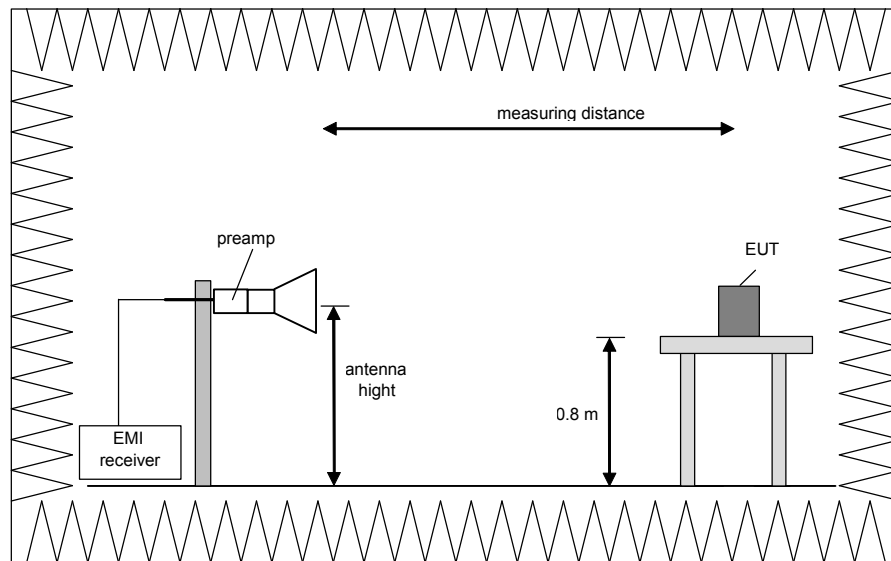
The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The spectrum analyser set to MAX Hold mode and a resolution bandwidth of 100 kHz. The measurement will be performed in horizontal and vertical polarisation of the measuring antenna, the antenna close to the EUT and while moving the antenna over all sides of the EUT. With the spectrum analyser in CLEAR / WRITE mode the cone of the emission should be found and than the measuring distance will be set to 3 m with the receiving antenna moving in this cone of emission. At this position the final measurement will be carried out.



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Final measurement (1 GHz to 12.75 GHz)

The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1 MHz. The measurement will be performed in horizontal and vertical polarisation of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 ° to 360 ° in order to have the antenna inside the cone of radiation.



Procedure of measurement:

The measurements were performed in the frequency range 1 to 12.75 GHz.

The following procedure will be used:

- 1) Monitor the frequency range at horizontal polarisation and move the antenna over all sides of the EUT (if necessary move the EUT to another orthogonal axis).
- 2) Change the antenna polarisation and repeat 1) with vertical polarisation.
- 3) Make a hardcopy of the spectrum.
- 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
- 5) Change the analyser mode to Clear / Write and found the cone of emission.
- 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3 m and the antenna will be still inside the cone of emission.
- 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarisation and azimuth and the peak and average detector, which causes the maximum emission.
- 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beam width.

Step 1) to 6) are defined as preliminary measurement.

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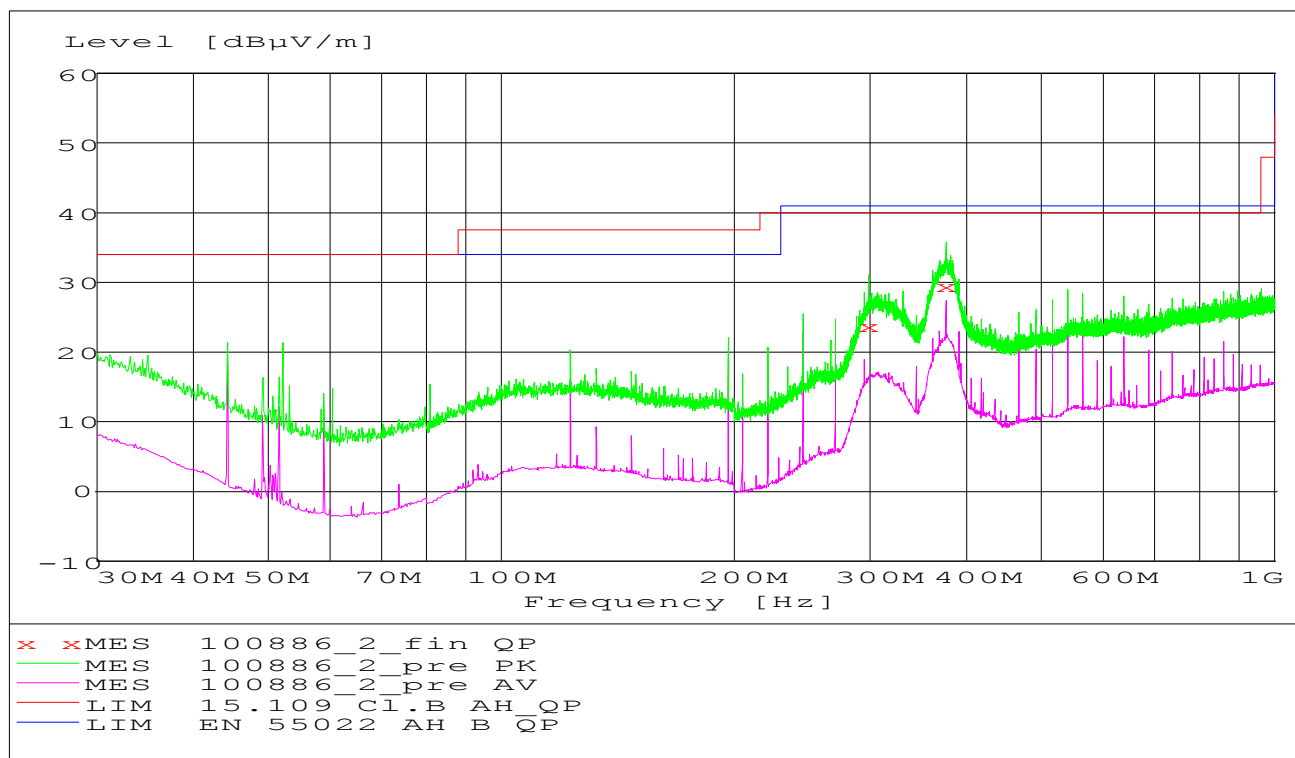
6.1.2 PRELIMINARY MEASUREMENT (30 MHz to 1 GHz)

Ambient temperature	20 °C	Relative humidity	38 %
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Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m (preliminary measurement).

Setup: For further information of the test set up refer to the pictures in annex A of this test report.

Title: Emission measurement according FCC
EMI Test receiver ESI Rohde & Schwarz
EUT: CT-ClipCom digital SD
Manufacturer: Ceotronics AG
Operating Condition: Motorola radio in standby, BT connection to Nokia 6610i established
Test site: fully anechoic chamber M20; PHOENIX TEST LAB GmbH
Operator: M.Dinter
Test Specification: Batterie powered



Data record name: 100886_2

TEST REPORT REFERENCE: F100886E2

Frequency MHz
298.672
375.000

These frequencies had to be measured on the open area test site. The results are presented in the following.

TEST EQUIPMENT USED FOR THE TEST:
29 – 35 ; 40

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6.1.3 PRELIMINARY MEASUREMENT (1 GHz to 5 GHz)

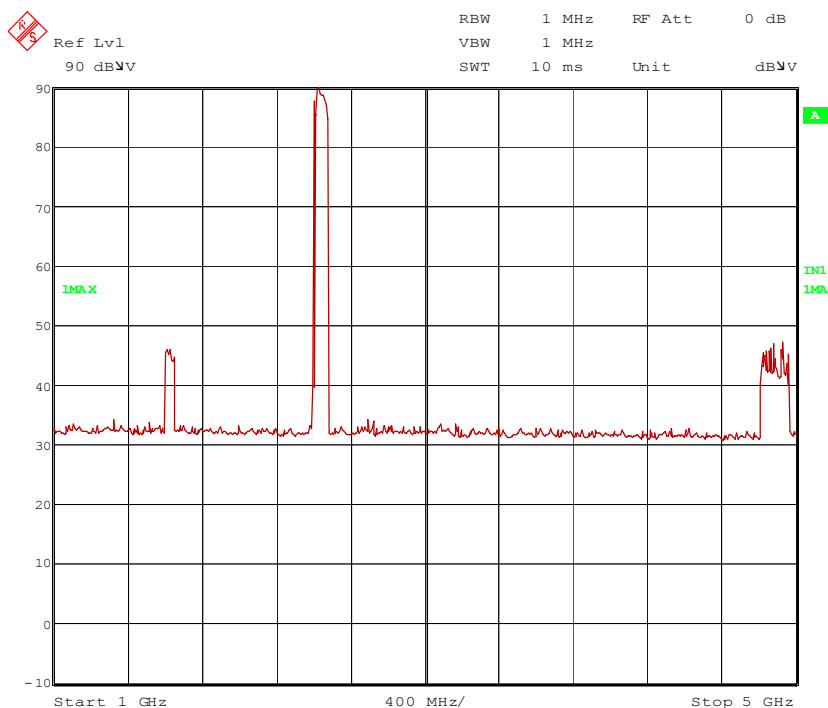
Ambient temperature:	20 °C	Relative humidity:	45 %
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Position of EUT: The EUT was set-up on a table of a height of 0.8 m.

Setup: For further information of the test set up refer to the pictures in annex A of this test report.

Test record: The test was carried out in normal operation receive mode of the EUT .
All results are shown in the following.

Power supply: During the measurements the EUT was supplied via the battery of the radio..



The following emission was found according to FCC 47 CFR Part 15 section 15.209 (a).

1625.0 MHz, 2450 MHz and 4900 MHz

- Remark: The emissions around 2450 MHz and 4900 MHz were caused by the Bluetooth module inside the Small sized digital communication system CT-Multi PTT (No. 0291001).

This frequency has to be measured with an average detector. The results were presented in the following.

TEST EQUIPMENT USED FOR THE TEST:
29 – 34; 36 – 37; 40 - 41

TEST REPORT REFERENCE: F100886E2

6.1.4 FINAL MEASUREMENT (30 MHz to 1 GHz)

Ambient temperature:	20 °C	Relative humidity:	38 %
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Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m.

Setup: For further information of the test set up refer to the pictures in annex A of this test report.

Test record: All results are shown in the following.

Title: Subsequent measurement on 3 m open area test site
Test-Receiver ESIB7 from Rohde & Schwarz

EUT: CT-ClipCom digital SD

Manufacturer: Ceotronics AG

Operating Condition: Motorola radio in standby, BT connection to Nokia 6610i established

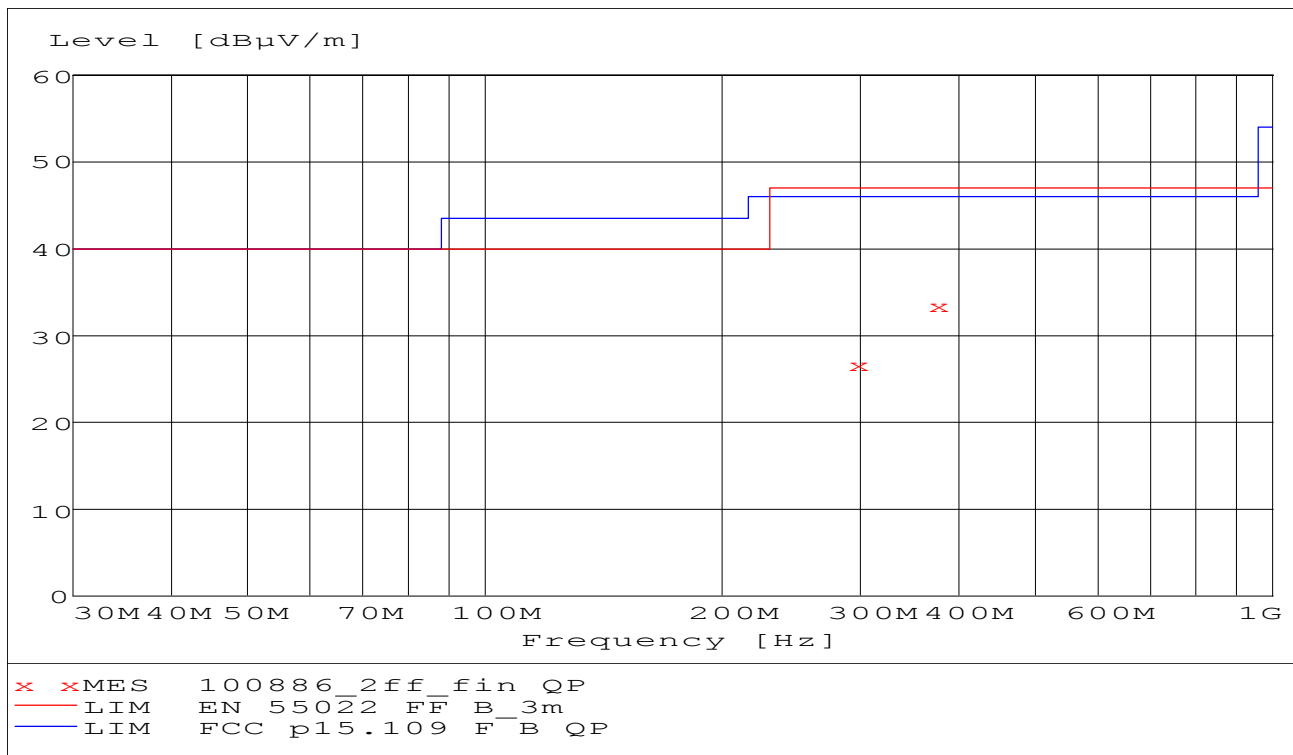
Test site: PHOENIX TESTLAB Blomberg; open area test site M6

Operator: M. DINTER

Test Specification: Batterie powered

Comment:

The results of the standard subsequent measurement on the open area test site are indicated in the table below. The limits as well as the measured results (levels) refer to the above mentioned standard while taking account of the specified requirements for a 3 m measuring distance.



Data record name: 100886_2ff

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The results of the standard subsequent measurement on the open area test site are indicated in the table below. The limits as well as the measured results (levels) refer to the above mentioned standard while taking account of the specified requirements for a 3 m measuring distance.

Result measured with the quasipeak detector according to FCC:
(These values are marked in the above diagram by x)

Frequency MHz	Level dBµV/m	Transducer dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
298.672000	26.70	16.5	46.0	19.3	107.0	205.00	HORIZONTAL
375.000000	33.40	19.0	46.0	12.6	107.0	80.00	HORIZONTAL

Data record name: 100886_2ff_fin QP

Result measured with the quasipeak detector according to IC:
(These values are marked in the above diagram by x)

Frequency MHz	Level dBµV/m	Transducer dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
298.672000	26.70	16.5	47.0	20.3	107.0	205.00	HORIZONTAL
375.000000	33.40	19.0	47.0	13.6	107.0	80.00	HORIZONTAL

Data record name: 100886_2ff_fin QP

Test: Passed

TEST EQUIPMENT USED FOR THE TEST:

14 – 20

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6.1.5 FINAL MEASUREMENT (1 GHz to 5 GHz)

Ambient temperature:	20 °C	Relative humidity:	38 %
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Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m.

Setup: For further information of the test set up refer to the pictures in annex A of this test report.

Test record: All results are shown in the following.

Result measured with the average detector according to FCC 47 CFR Part 15 class B:

Final Average measurement Frequency	Corr. value dBμV/m	Limit dBμV/m	Margin dB	Readings dBμV	Antenna factor 1/m	Preamp dB	Cable loss dB	Height cm	Pol.
1625	26.8	54.0	27.2	24.8	25.4	26.5	3.1	150	Hor.
Measuring uncertainty		+ 2.2dB / – 3.6 dB							

Result measured with the peak detector according to ICES-003 Issue 4 class B:

Final Average measurement Frequency	Corr. value dBμV/m	Limit dBμV/m	Margin dB	Readings dBμV	Antenna factor 1/m	Preamp dB	Cable loss dB	Height cm	Pol.
1625	49.7	70.0	20.3	47.7	25.4	26.5	3.1	150	Hor.
Measuring uncertainty		+ 2.2dB / – 3.6 dB							

Result measured with the peak detector according to ICES-003 Issue 4 class B:

Final Average measurement Frequency	Corr. value dBμV/m	Limit dBμV/m	Margin dB	Readings dBμV	Antenna factor 1/m	Preamp dB	Cable loss dB	Height cm	Pol.
1625	26.8	50.0	23.2	24.8	25.4	26.5	3.1	150	Hor.
Measuring uncertainty		+ 2.2dB / – 3.6 dB							

Test result: Passed

TEST EQUIPMENT USED FOR THE TEST:

29 – 34, 36 – 37, 40, 41

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7 REPORT HISTORY

Report Number	Date	Comment
F100886E2	08 October 2010	Document created

8 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No.	Test equipment	Type	Manufacturer	Serial No.	PM. No.	Cal. Date	Cal. due
1	Shielded chamber M4	-	Siemens	B83117S1-X158	480088	Weekly verification (system cal.)	
2	Measuring receiver	ESAI	Rohde & Schwarz	831953/001 833181/018	480025 480026	03/15/2010 03/15/2010	03/2012 03/2012
3	LISN	NSLK8128	Schwarzbeck	8128155	480058	07/08/2009	08/2010
5	AC-filter	B84299-D87-E3	Siemens	930262292	480097	Weekly verification (system cal.)	
6	EMI-Software	ES-K1	Rohde & Schwarz	-	480111	-	
14	Open area test site	-	Phoenix Test-Lab	-	480085	Weekly verification (system cal.)	
15	Measuring receiver	ESIB 7	Rohde & Schwarz	100304	480521	03/15/2010	03/2012
16	Controller	HD100	Deisel	100/670	480139	-	-
17	Turntable	DS420HE	Deisel	420/620/80	480087	-	-
18	Antenna support	AS615P	Deisel	615/310	480086	-	-
19	Antenna	CBL6111 A	Chase	1643	480147	08/01/2007	08/2012
20	EMI Software	ES-K1	Rohde & Schwarz	-	480111	-	
29	Fully anechoic chamber M20	-	Albatross Projects	B83107-E2439-T232	480303	Weekly verification (system cal.)	
31	Measuring receiver	ESI 40	Rohde & Schwarz	100064	480355	03/15/2010	03/2012
32	Controller	MCU	Maturo	MCU/043/971107	480832	-	
33	Turntable	DS420HE	Deisel	420/620/80	480315	-	
34	Antenna support	AS615P	Deisel	615/310	480187	-	
35	Antenna	CBL6112 B	Chase	2688	480328	10/11/2005	10/2010
36	Antenna	3115 A	EMCO	9609-4918	480183	04/11/2008	11/2013
37	Preamplifier	JS3-00101200-23-5A	Miteq	681851	480337	Six month verification (system cal.)	
40	RF-cable No. 30	RTK 081	Rosenberger	-	410141	Weekly verification (system cal.)	
41	RF-cable No. 31	RTK 081	Rosenberger	-	410142	Weekly verification (system cal.)	

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9 LIST OF ANNEXES

ANNEX A	PHOTOGRAPHS OF THE TEST SET-UPS:	4 pages
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	Test set-up preliminary emission measurement	100886_2emi2
	Test set-up preliminary emission measurement	100886_2emi3
	Test set-up final emission measurement	100886_2emiff1
ANNEX B	PHOTOGRAPHS OF THE TEST SAMPLE:	2 pages
	EUT 3D view	100886_2eut1
	EUT 3D view	100886_2eut2
ANNEX B	PHOTOGRAPHS OF PCB:	2 pages
	EUT top view	100886_2pcb1
	EUT rear view	100886_2pcb2