



Accredited testing-laboratory

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

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

Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC)

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

Certification ID: DE 0001

Accreditation ID: DE 0002

Accredited Bluetooth® Test Facility (BQTF)

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Test report no. : 2-4804-01-02/07
Type identification : BlueMod+C11/G2/AE
Applicant : Stollmann E+V GmbH
FCC ID : RFR-C11G2
IC Certification No : 4957A-C11G2
Test standards : 47 CFR Part 15
RSS - 210 Issue 7

Table of contents

1	General information.....	3
1.1	Notes	3
1.2	Testing laboratory	4
1.3	Details of applicant	4
1.4	Application details	4
2	Test standard/s:.....	5
3	Technical tests	6
3.1	Details of manufacturer.....	6
3.1.1	Test item.....	6
3.1.2	Additional EUT information For IC Canada (appendix 2).....	7
3.1.3	RF Technical Brief Cover Sheet acc. To RSS-102	8
4	Summary of Measurement Results and list of all performed test cases	9
5	RF measurement testing	10
5.1	Description of test set-up.....	10
5.1.1	Radiated measurements.....	10
5.1.2	Conducted measurements.....	10
5.2	Referenced documents	11
5.3	Additional comments	11
5.4	Max. peak output power (radiated) § 15.247 (b)(1)	12
5.5	Band-edge compliance of radiated emissions §15.205	14
5.6	Spurious Emissions > 30 MHz- radiated (Transmitter) § 15.247 (c)(1).....	17
5.7	Spurious Emissions - radiated (Receiver) § 15.109	23
5.8	Spurious Emissions < 30 MHz – Transmitter radiated § 15.209.....	26
6	Test equipment and ancillaries used for tests.....	27
7	Photographs of the Test Set-up.....	30
8	Photographs of the EUT	32

1 General information

1.1 Notes

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

Test laboratory manager:

2007-11-26**Bertolino Marco**

Date

Name

Signature

Technical responsibility for area of testing:

2007-11-26**Harro Ames**

Date

Name

Signature

1.2 Testing laboratory

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 - 10

66117 Saarbrücken

Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

e-mail: info@ICT.cetecom.de

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

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

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

Testing location, if different from CETECOM ICT Services GmbH:

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

1.3 Details of applicant

Name:	Stollmann E+V GmbH
Street:	Mendelsohnstr. 15
Town:	22761 Hamburg
Country:	Germany
Telephone:	040 890 88 498
Fax:	040 890 88 444
Contact:	Herrn Jens Jensen
E-mail:	jj@stollmann.de
Telephone:	040 890 88 498

1.4 Application details

Date of receipt of order:	2007-10-25
Date of receipt of test item:	2007-11-19
Date of start test:	2007-11-21
Date of end test	2007-11-23
Persons(s) who have been present during the test:	--

2 Test standard/s:

47 CFR Part 15	2007-09	Title 47 of the Code of Federal Regulations; Chapter I- Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices
RSS - 210 Issue 7	2007-06	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

3 Technical tests

3.1 Details of manufacturer

Name:	Stollmann E+V GmbH
Street:	Mendelsohnstr. 15
Town:	22761 Hamburg
Country:	Germany

3.1.1 Test item

Kind of test item	:	Bluetooth Device Class I
Type identification	:	BlueMod+C11/G2/AE
S/N serial number	:	168
HW hardware status	:	V2
SW software status	:	HCI21e
Frequency Band [MHz]	:	ISM 2.400 - 2.483,5
Type of Modulation	:	FHSS
Number of channels	:	79
Antenna	:	Flagpole antenna (model number WIMO 17010.010)
Power Supply	:	3.3 V (Power Supply)
Temperature Range	:	--

Max. power radiated: 19.46 dBm

Max. power conducted: n.a. dBm

FCC ID: RFR-C11G2

IC: 4957A-C11G2

PC II Report

Purpose: to allow alternate antenna

3.1.2 Additional EUT information For IC Canada (appendix 2)

IC Registration Number:	4957A-C11G2
Model Name:	BlueMod+C11/G2/AE
Manufacturer (complete Address):	Stollmann E+V GmbH Mendelsohnstr. 15 22761 Hamburg Germany
Tested to Radio Standards Specification (RSS) No.:	RSS-210 Issue 7
Open Area Test Site Industry Canada Number:	IC 3463A-1
Frequency Range (or fixed frequency) [MHz]:	2400 – 2483.5 MHz
RF: Power [W] (max):	Rad. EIRP: 88.31 mW Conducted : n.a. mW
Antenna Type:	Flagpole antenna (model number WIMO 17010.010)
Occupied Bandwidth (99% BW) [kHz]:	n.a.
Type of Modulation:	GFSK, PI / 4 DQPSK, 8 DPSK
Emission Designator (TRC-43):	n.a.
Transmitter Spurious (worst case) [μ V/m in 3m]:	55.9 dB μ V/m
Receiver Spurious (worst case) [μ V/m in 3m]:	Noise floor

ATTESTATION: I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned departmental standard(s), and that the radio equipment identified in this application has been subject to all the applicable test conditions specified in the departmental standards and all of the requirements of the standards have been met.

Signature:



Test engineer: Bertolino Marco

Date: 2007-11-26

3.1.3 RF Technical Brief Cover Sheet acc. To RSS-102

All Fields must be completed with the requested information or the following codes: N/A for Not Applicable, N/P for Not Performed or N/V for Not Available. Where applicable, check appropriate box.

1. COMPANY NUMBER: **4957A**
2. MODEL NUMBER: **BlueMod+C11/G2/AE**
3. MANUFACTURER: **Stollmann E+V GmbH**
4. TYPE OF EVALUATION: --

(c) RF Evaluation

- Evaluated against exposure limits: General Public Use ☒ Controlled Use ☐
 - Duty cycle used in evaluation: 100%
 - Standard used for evaluation: RSS-102 Issue 2 (2005-11)
 - Measurement distance: 0.2 m
 - RF value: 0.18 W / m² ☒
- Measured ☐ Computed ☐ Calculated ☒

Declaration of RF Exposure Compliance

ATTESTATION: I attest that the information provided in this test report are correct; that a Technical Brief was prepared and the information it contains is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed and that the device meets the SAR and/or RF exposure limits of RSS-102.



Name: Marco Bertolino
Title: Engineer
Company: Cetecom ICT Services GmbH

4 Summary of Measurement Results and list of all performed test cases

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

TC identifier	Description	verdict	date	Remark
RF-Testing	FCC Part 15 §15.247 - CANADA RSS-210	PASS	2007-11-26	PASS

Test Specification Clause	Test Case	pass	fail	Not applicable	Not performed
None	Antenna Gain				Yes
§15.247(a1)	Carrier frequency separation				Yes
§15.247(a1)	Number of hopping channels				Yes
§15.247(a)(1)(iii)	Time of occupancy (dwell time)				Yes
§15.247(e)	Power Spectral density (Hybrid system in Inquiry mode/Page scan)				Yes
§15.247(a)(1)	Spectrum Bandwidth of a FHSS System / 20dB Bandwidth				Yes
§ 15.247 (b)(1)	Maximum output power (conducted)				Yes
§ 15.247 (b)(1)	Max. peak output power (radiated)	Yes			
§ 15.247 (d)	Band-edge compliance of conducted emissions				Yes
§ 15.205	Band-edge compliance of radiated emissions	Yes			
§ 15.247 (d)	Spurious Emission - conducted (Transmitter)				Yes
§ 15.247 (d)	Spurious Emission - radiated (Transmitter) >30 MHz	Yes			
§ 15.109	Spurious Emissions - radiated (Receiver)	Yes			
§ 15.209	Spurious Emissions - radiated (Transmitter) <30 MHz	Yes			

5 RF measurement testing

5.1 Description of test set-up

5.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 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 confirmed 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 setups 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 confirmed 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, 9 kHz Bandwidth, passive loop antenna.
- 30 MHz - 200 MHz: Quasi Peak measurement, 120 kHz Bandwidth, biconical antenna
- 200MHz - 1GHz: Quasi Peak measurement, 120 kHz Bandwidth, log periodic antenna
- >1GHz: Average, RBW 1MHz, VBW 10 Hz, waveguide horn

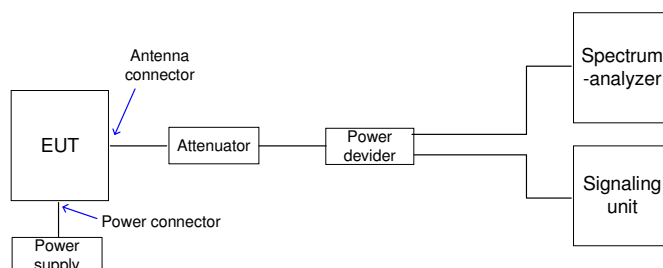
All measurements are done in accordance with the Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems DA 00-705 and Appendix A “BLUETOOTH APPROVALS”

The EUT is powered by an external power supply with nominal voltage. The signalling is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

5.1.2 Conducted measurements

n.a.

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch). One of the signal path is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



5.2 Referenced documents

None

5.3 Additional comments

None

5.4 Max. peak output power (radiated) § 15.247 (b)(1)

Results:

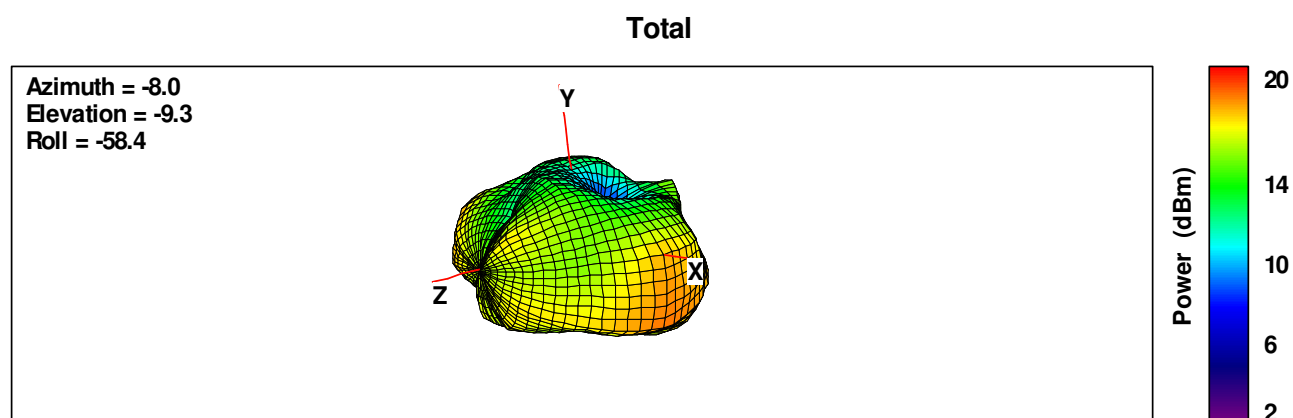
Test conditions		Max. peak output power EIRP [dBm]		
Frequency [MHz]		2402	2442	2480
T _{nom}	V _{nom}	19.46	18.72	19.00
Measurement uncertainty		±3dB		

RBW / VBW: 3 MHz

Measured at a distance of 3m

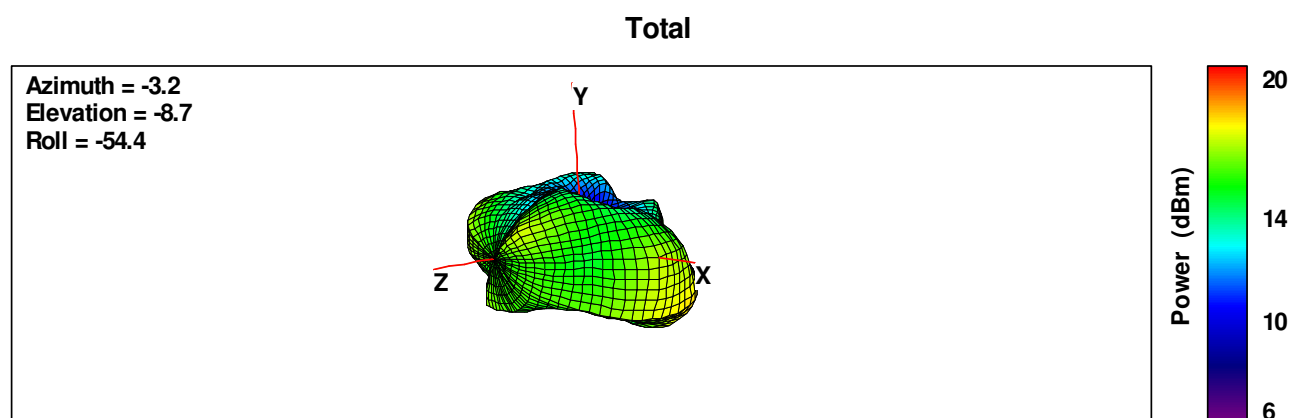
Plot 1:

Radiated output power over the whole sphere channel 00



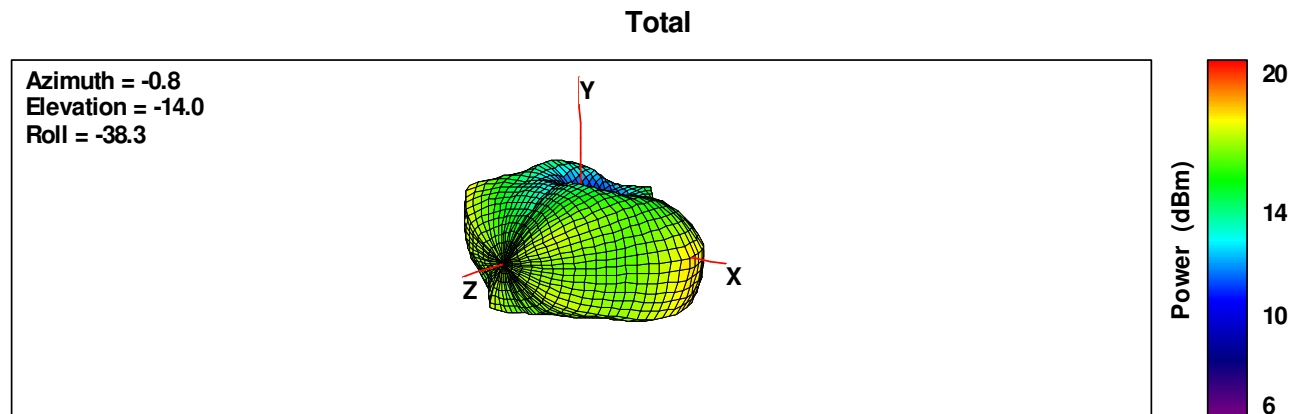
Plot 2:

Radiated output power over the whole sphere channel 39



Plot 3:

Radiated output power over the whole sphere channel 78



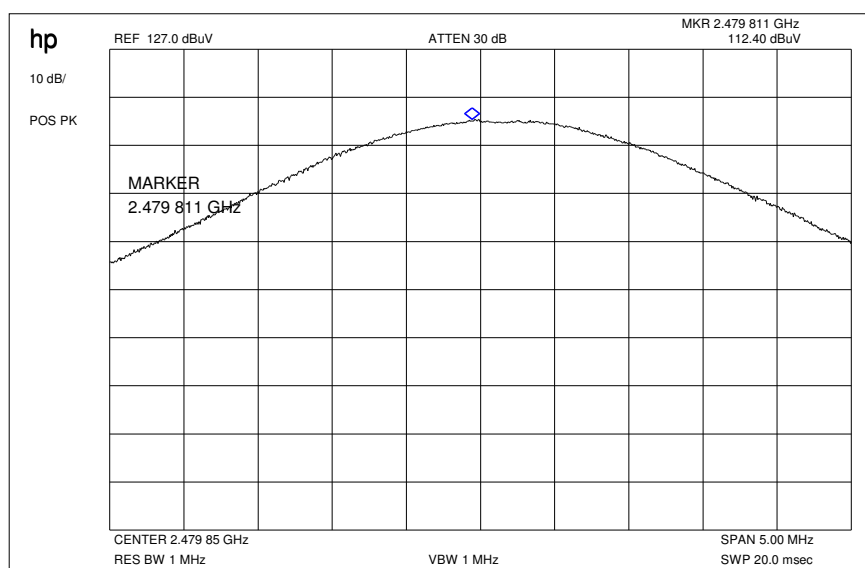
Limits:

Under normal test conditions only, for frequency range 2400-2483.5 MHz	Max. 1.0 Watt
--	---------------

5.5 Band-edge compliance of radiated emissions §15.205

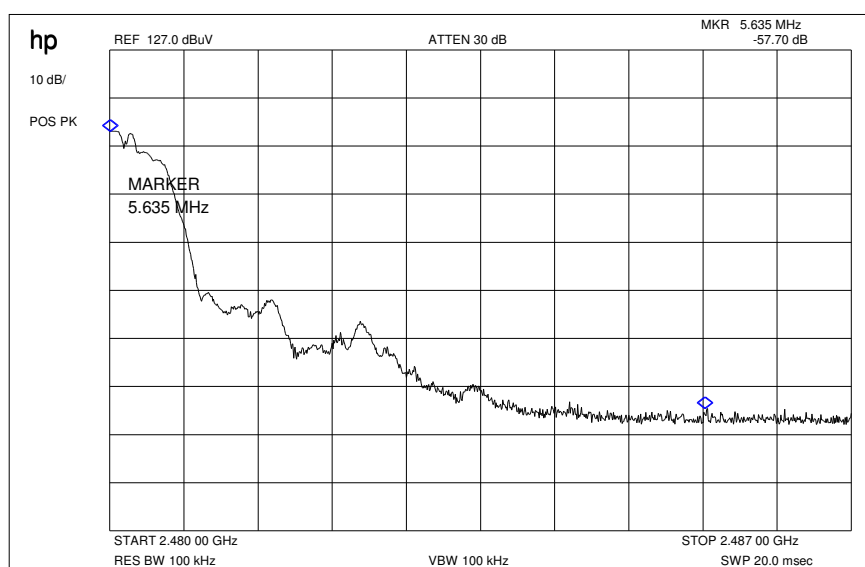
Modulation: widest

Plot 1: Max field strength in 3m distance (single frequency)



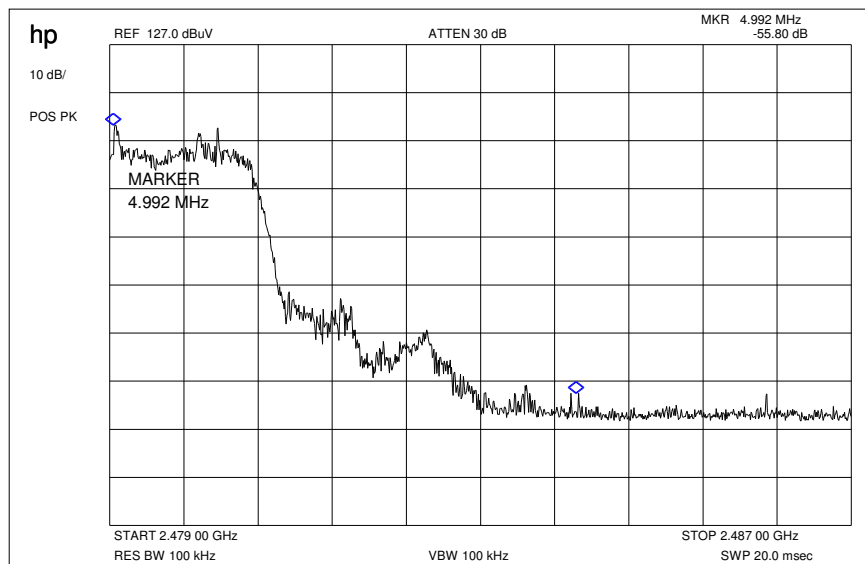
Result: 112.40 dBμV/m

Plot 2: Marker – Delta method (single carrier)



Marker – Delta value: 57.70 dB

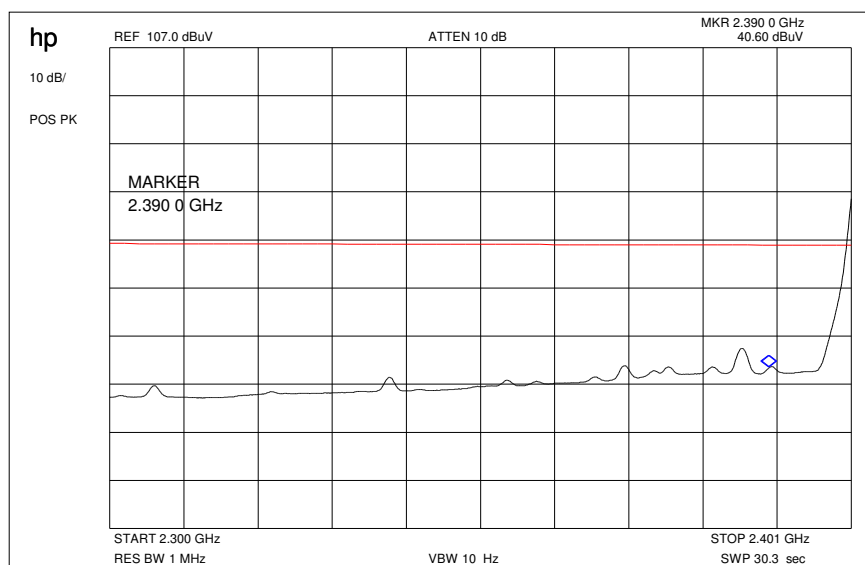
Plot 3: Marker – Delta method (hopping mode)



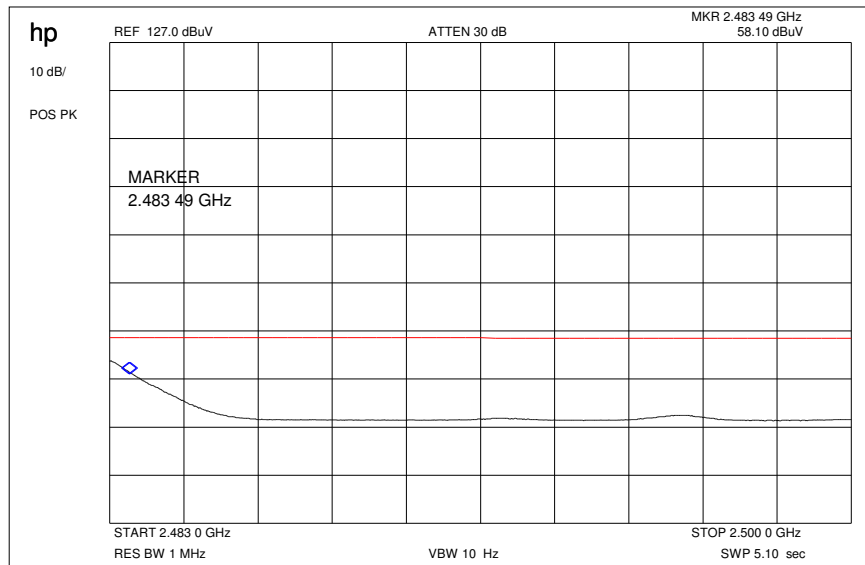
Marker – Delta value: 55.80 dB

This measurement was made to show that the behaviour of the system is conform to FCC 15.205 (restricted bands).

Plot 4: Restricted band low



Plot 5: Restricted band high



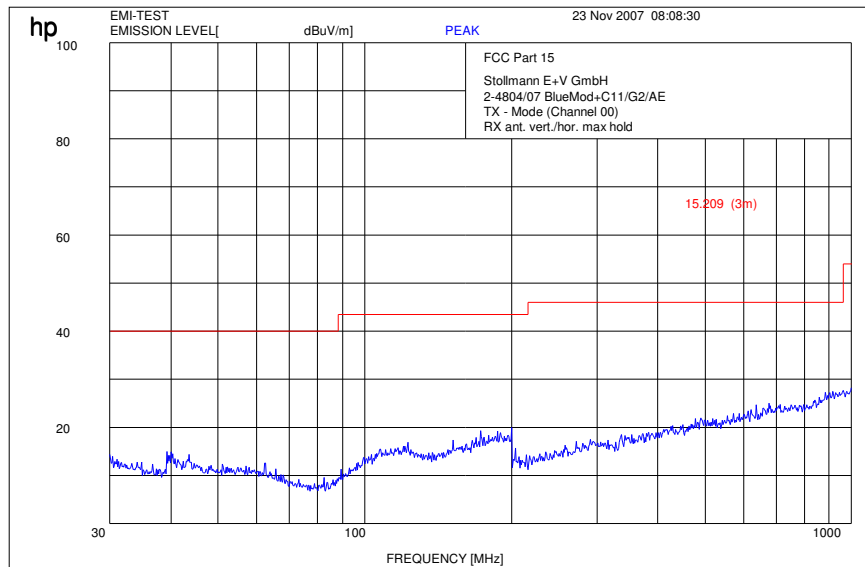
Radiated field strength

The field strength was measured with an EMI measuring receiver and 1 MHz RBW / VBW for peak and with 1MHz RBW / 10Hz VBW for average at a distance of 3m.

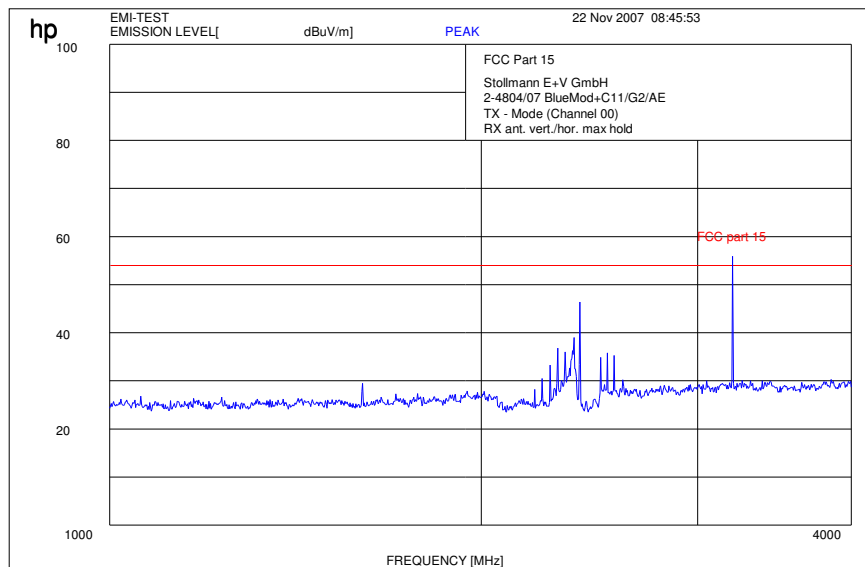
high channel	setup	measured value (3m)	correction factor (3m)	calculated value (3m)
Max. peak value	1 MHz RBW 1 MHz VBW	112.40 dB μ V/m	-1.77	110.63 dB μ V/m
Max. average value	Calculated with duty cycle correction factor	110.63 dB μ V/m peak	-1,07dB duty cycle correction factor (worst case DH5)	109.56 dB μ V/m
Delta value	Peak 100 kHz RBW/VBW	57.70 dB (single carrier) 55.80 dB (hopping mode)	-	-
Value at band edge	limit 54 dB μ V/m			51.86 dB μ V/m (single carrier) 53.76 dB μ V/m (hopping mode)
Statement:				Complies

5.6 Spurious Emissions > 30 MHz- radiated (Transmitter) § 15.247 (c)(1)

Plot 1: 0.03 - 1 GHz vertical/horizontal (lowest channel)



Plot 2: 1 - 4 GHz vertical/horizontal (lowest channel)



The carrier signal is notched with a 2.4 GHz band reject filter.

One peak was detected over the limit line at 3200.6 MHz. This peak is not within the restricted bands.

Restricted bands:

2690 – 2900 MHz

3260 – 3267 MHz

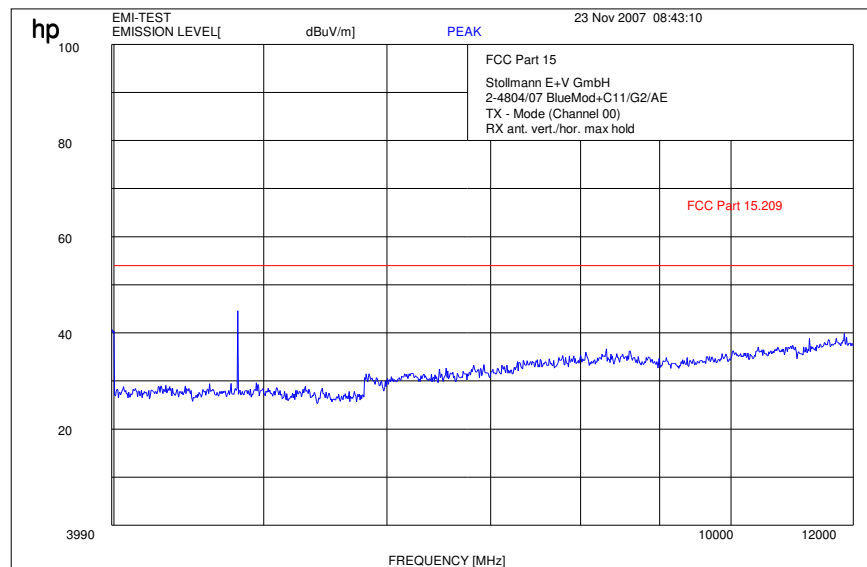
Therefore it will be applicable the 20 dBc criteria.

Peak value: - 41.6 dBm

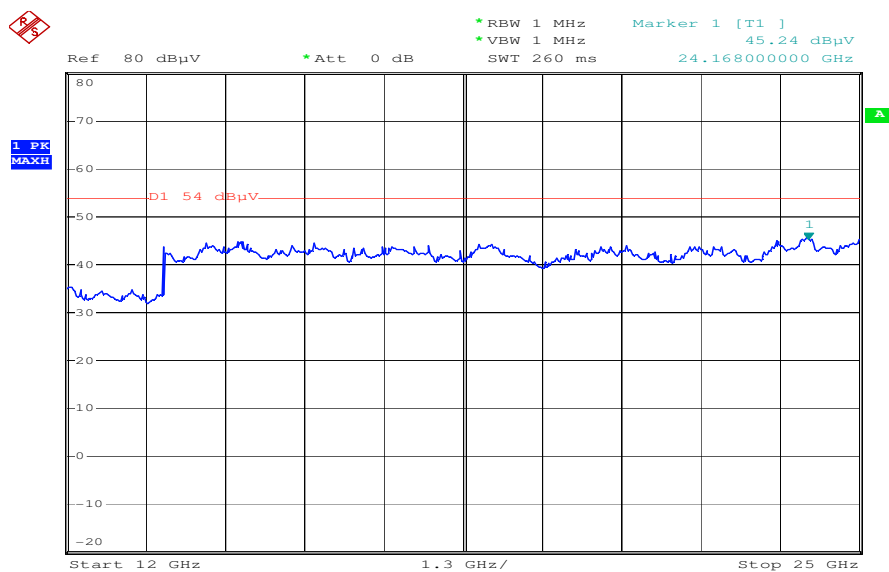
Carrier value: 19.46 dBm $\Rightarrow$ 20dBc = -0.54 dBm

The result of the measurement is pass.

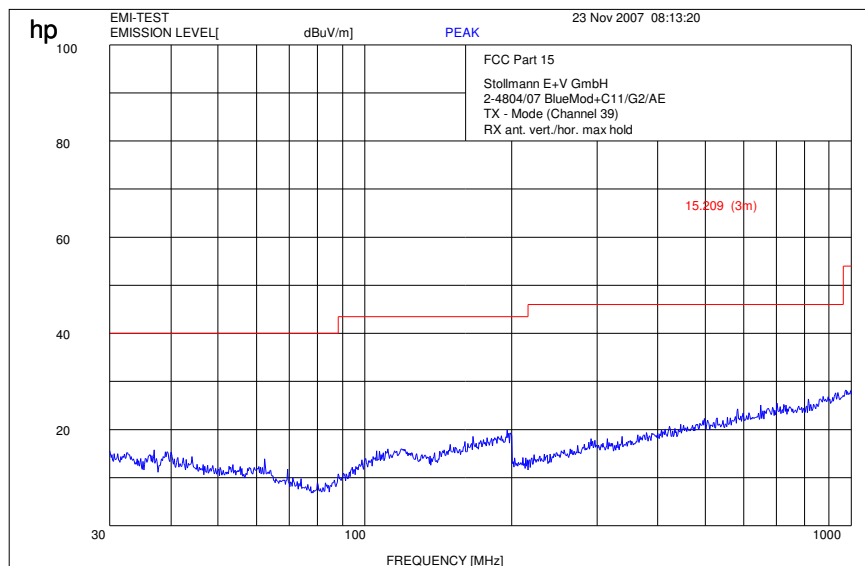
Plot 3: 4 - 12 GHz vertical/horizontal (lowest channel)



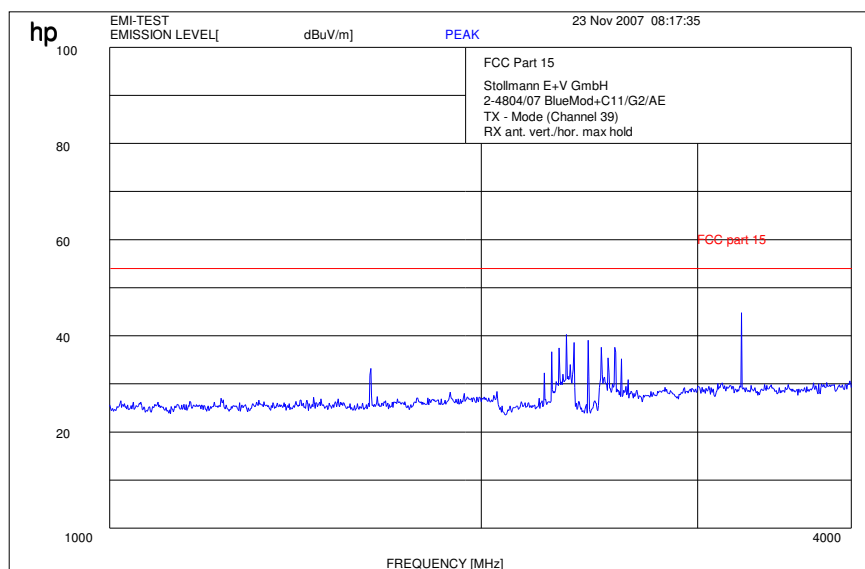
Plot 4: 12 - 25 GHz vertical/horizontal (valid for all 3 channels)



Plot 5: 0.03 - 1 GHz vertical/horizontal (middle channel)

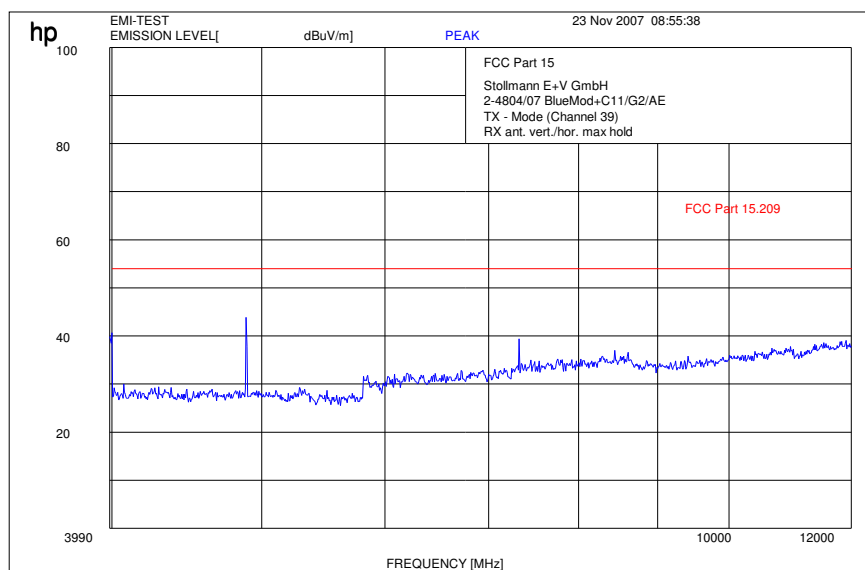


Plot 6: 1 - 4 GHz vertical/horizontal (middle channel)

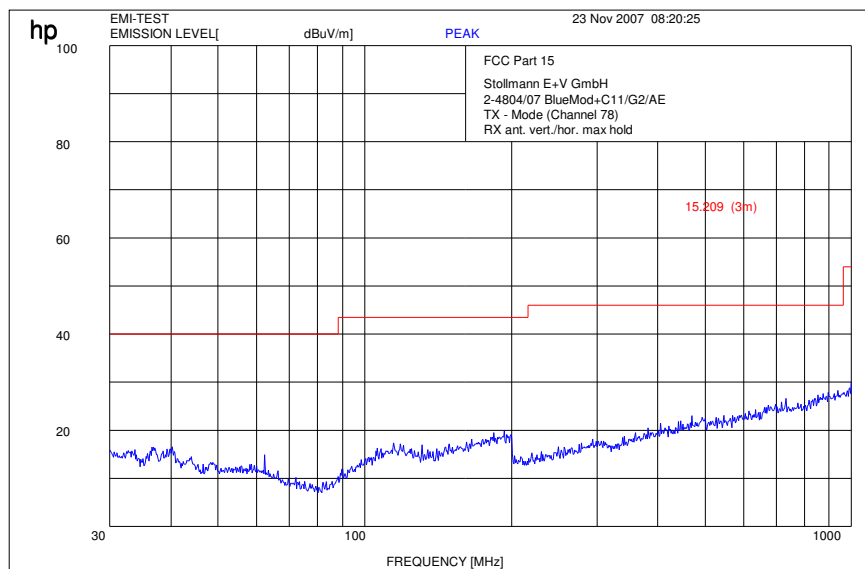


The carrier signal is notched with a 2.4 GHz band reject filter.

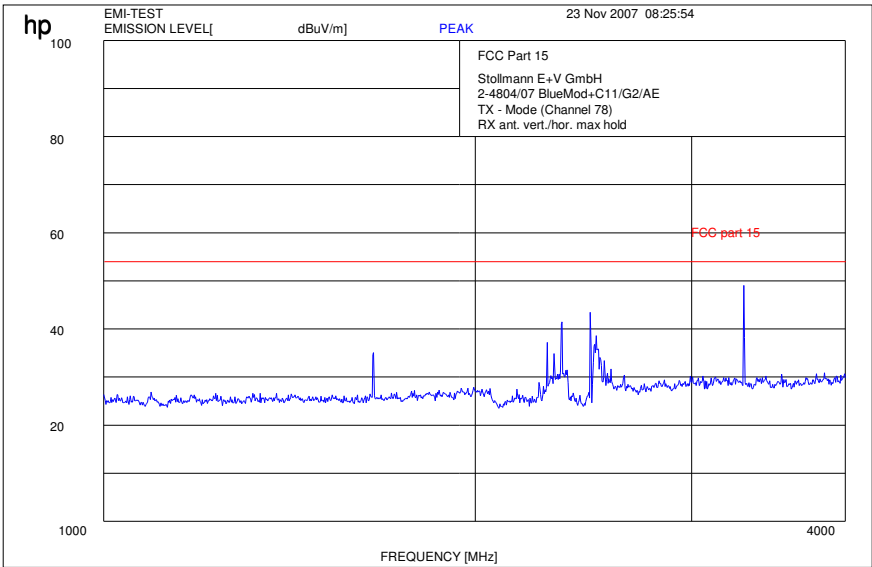
Plot 7: 4 - 12 GHz vertical/horizontal (middle channel)



Plot 8: 0.03 - 1 GHz vertical/horizontal (highest channel)

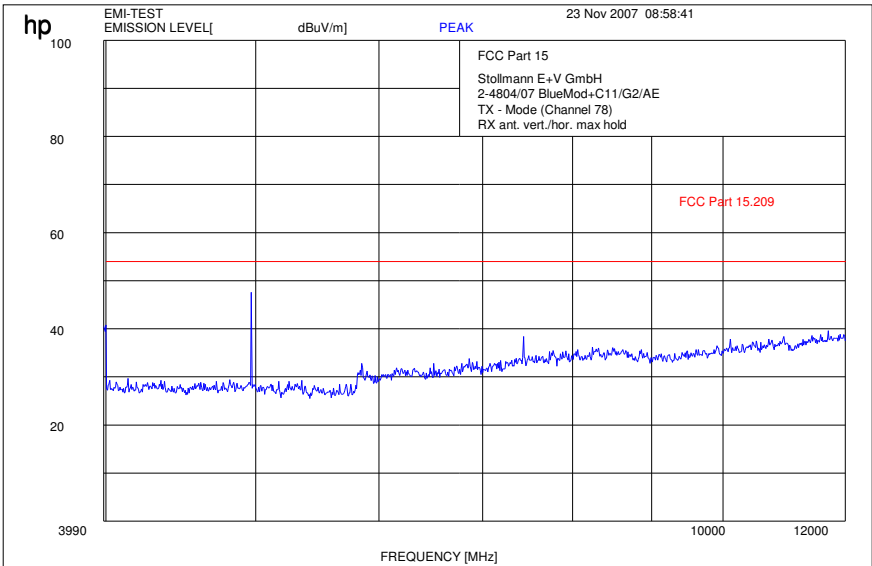


Plot 9: 1 - 4 GHz vertical/horizontal (highest channel)



The carrier signal is notched with a 2.4 GHz band reject filter.

Plot 10: 4 - 12 GHz vertical/horizontal (highest channel)



Results:

SPURIOUS EMISSIONS LEVEL (dB μ V/m)								
2402 MHz			2441 MHz			2480 MHz		
F [MHz]	Detector	Level [dB μ V/m]	F [MHz]	Detector	Level [dB μ V/m]	F [MHz]	Detector	Level [μ V/m]
3200.6*	Peak	55.9	3254.2	Peak	44.8	3304.1	Peak	49.1
4810.5	Peak	44.6	4885.1	Peak	43.9	4966.4	Peak	47.6
			7322.9	Peak	39.4	7436.5	Peak	38.4
Measurement uncertainty			± 3 dB					

$f < 1$ GHz : RBW/VBW: 100 kHz

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

* This peak is not within the restricted bands.

Limits: § 15.247 (c)

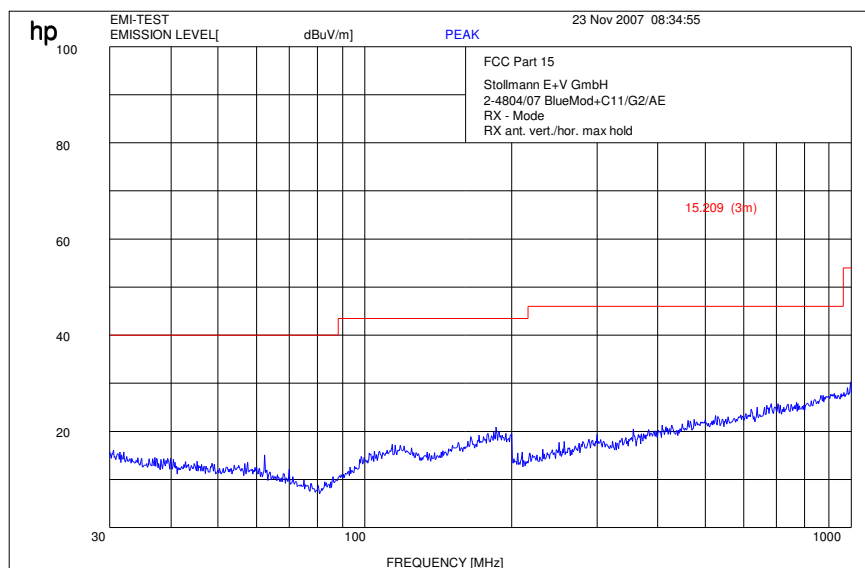
In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limits: § 15.209

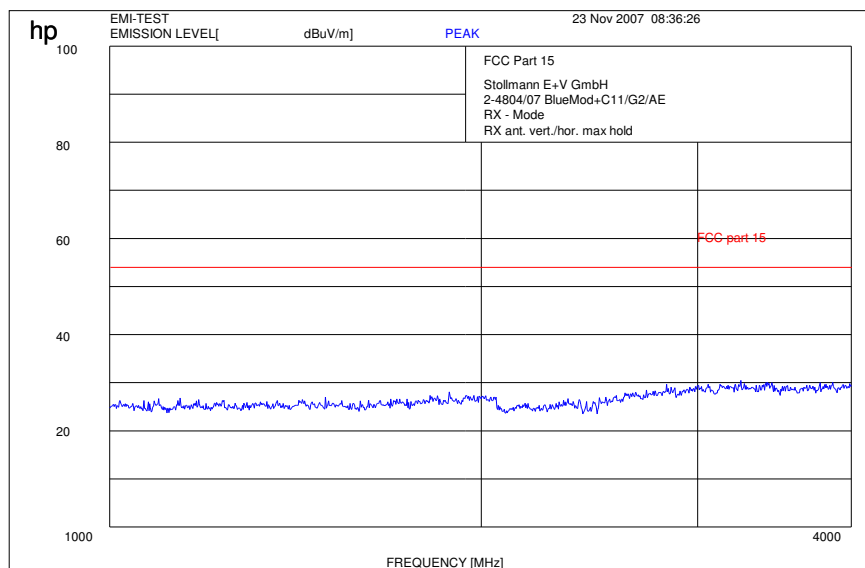
Frequency [MHz]	Field strength [μ V/m]	Measurement distance (m)
30 - 88	100 (40 dB μ V/m)	3
88 - 216	150 (43.5 dB μ V/m)	3
216 - 960	200 (46 dB μ V/m)	3
above 960	500 (54 dB μ V/m)	3

5.7 Spurious Emissions - radiated (Receiver) § 15.109

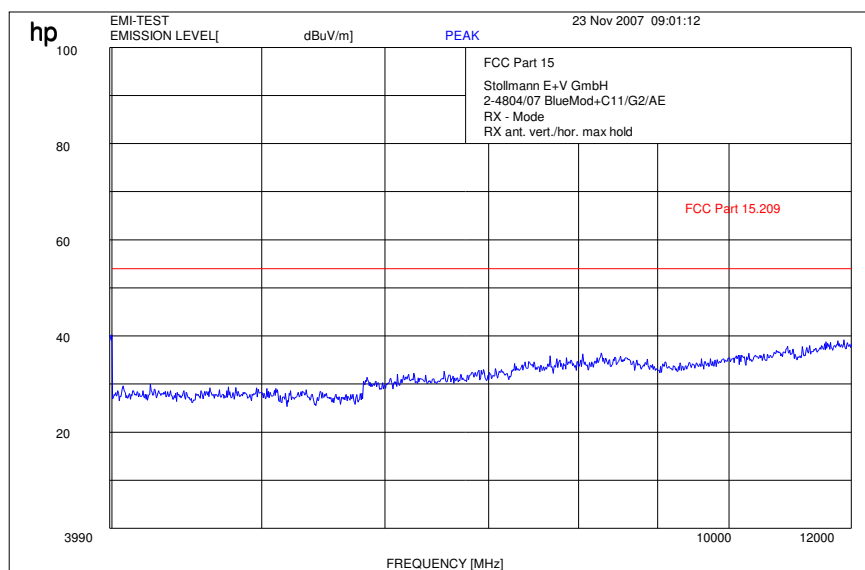
Plot 1: 0.03 - 1 GHz vertical/horizontal (receiver)



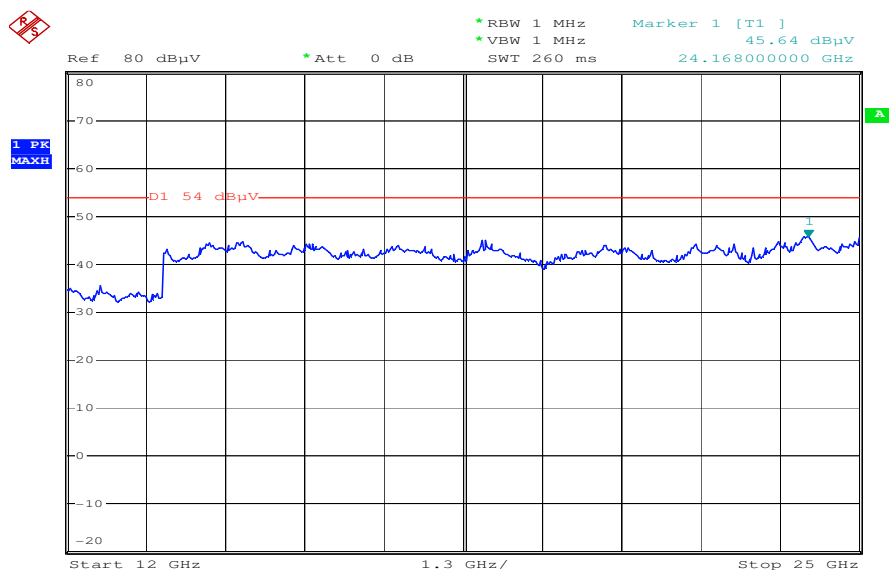
Plot 2: 1- 4 GHz vertical/horizontal (receiver)



Plot 3: 4 - 12 GHz vertical/horizontal (receiver)



Plot 4: 12 - 25 GHz vertical/horizontal (receiver, valid for all 3 channels)



Date: 23.NOV.2007 12:45:10

Spurious Emissions level [dB μ V/m]		
f[MHz]	Detector	Level [dB μ V/m]
No critical peak detected.		
Measurement uncertainty		± 3 dB

f < 1 GHz: RBW/VBW: 100 kHz

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

See above plots

Measurement distance see table

Limits: § 15.109

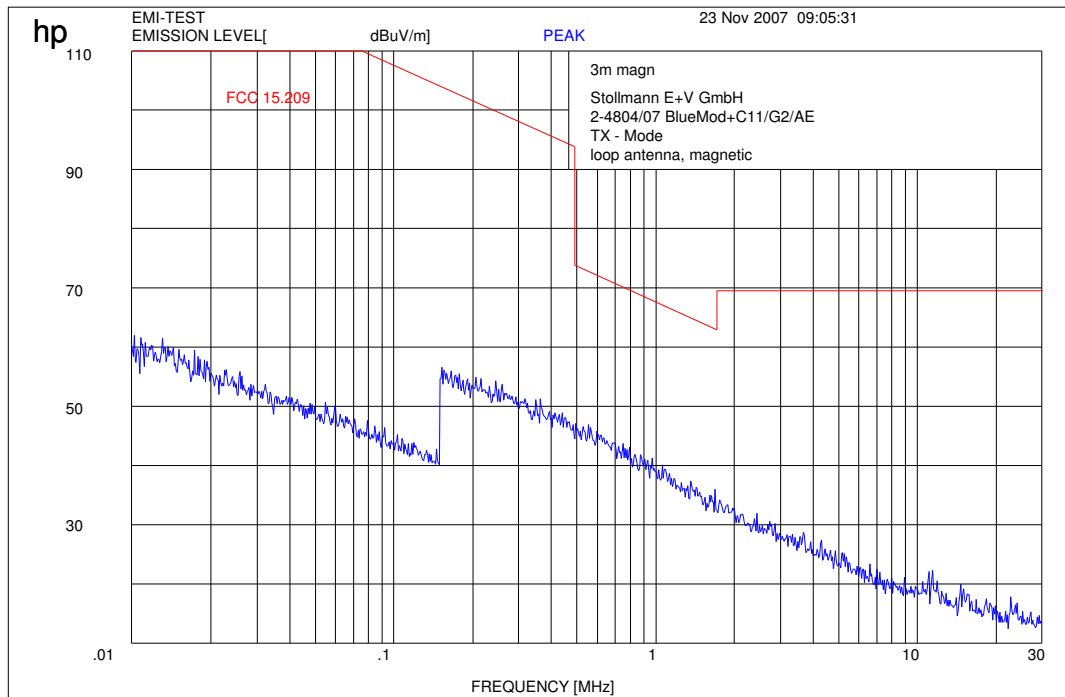
Frequency (MHz)	Field strength (μ V/m)	Measurement distance (m)
30 - 88	100 (40 dB μ V/m)	3
88 - 216	150 (43.5 dB μ V/m)	3
216 - 960	200 (46 dB μ V/m)	3
above 960	500 (54 dB μ V/m)	3

5.8 Spurious Emissions < 30 MHz – Transmitter radiated § 15.209

Measured at 10 m distance.

Values recalculated with 40 dB/decade according to FCC rules.

Plot 1:



Limits:

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30 / 29.5 dB $\mu\text{V/m}$	30

6 Test equipment and ancillaries used for tests

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

Anechoic chamber C:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verification		
2	System-Rack 85900	HP I.V.	*	300000222	n.a.		
3	Measurement System 1						
4	Spektrum Analyzer 8566B	HP	2747A05306	300001000	05.10.2006	24	05.10.2008
5	Spektrum Analyzer Display 85662A	HP	2816A16541	300002297	05.10.2006	24	05.10.2008
6	Quasi-Peak-Adapter 85650A	HP	2811A01131	300000999	05.10.2006	24	05.10.2008
7	RF-Preselector 85685A	HP	2837A00779	300000218	08.11.2006	24	08.11.2008
8	PC Vectra VL	HP		300001688	n.a.		
9	Software EMI	HP		300000983	n.a.		
10	Measurement System 2						
11	FSP 30	R&S	100623	ICT 300003464	05.10.2007	24	15.10.2009
12	PC	F+W			n.a.		
13	TILE	TILE			n.a.		
14	Biconical antenna	EMCO	S/N: 860 942/003		Monthly verification (System cal.)		
15	Log. Period. Antenna 3146	EMCO	2130	300001603	Monthly verification (System cal.)		
16	Double Ridged Antenna HP 3115P	EMCO	3088	300001032	Monthly verification (System cal.)		
17	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verification (System cal.)		
18	Power Supply 6032A	HP	2818A03450	300001040	12.05.2007	36	12.05.2010
19	Busisolator	Kontron		300001056	n.a.		
20	Leitungsteiler 11850C	HP		300000997	Monthly verification (System cal.)		
21	Power attenuator 8325	Byrd	1530	300001595	Monthly verification (System cal.)		
22	Band reject filter WRCG1855/1910	Wainwright	7	300003350	Monthly verification (System cal.)		
23	Band reject filter WRCG2400/2483	Wainwright	11	300003351	Monthly verification (System cal.)		

System Rack Room 005:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	FSP 30	R&S		300003575	02.04.2007	24	02.04.2009
2	CBT	R&S	100313	300003516	24.10.2006	24	24.10.2008
3	Switch Matrix	HP		300000929	n.a.		
4	Power Supply	HP	3041A00544	300002270	13.05.2007	36	13.05.2010
5	Signal Generator	R&S	836206/0092	300002680	30.05.2007	36	30.05.2010

Signalling Units:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	CBT	R&S	100313	300003516	24.10.2006	24	24.10.2008
2	CBT	R&S	100185	300003416	21.02.2006	24	21.02.2008

SRD Laboratory Room 005:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Spektrum Analyzer 8566B	HP	2747A05275	300000219	08.11.2006	24	08.11.2008
2	Spektrum Analyzer Display 85662A	HP	2816A16497	300001690	08.11.2006	24	08.11.2008
3	Quasi-Peak-Adapter 85650A	HP	2811A01135	300000216	08.11.2006	24	08.11.2008
4	Power Supply	Heiden	003202	300001187	12.05.2007	36	12.05.2010
5	Power Supply	Heiden	1701	300001392	12.05.2007	36	12.05.2010

OTA chamber:

No	Equipment	Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calib.	Freq. months	Next Calib.
1	Splitter	15542	Mini Circuits	15542	400000086	Verified with path compensation		
2	Splitter	42000	Anaren	4730	400000085	Verified with path compensation		
3	Cable N-Con. 15m	Aircell 7	Aircell	--	400000087	Verified with path compensation		
4	CTIA-Chamber	AMS 8500	ETS-Lindgren	--	300003327-0000	Verified with chamber and ripple tests		
5	CTIA-Chamber - Positioning Equipment	--	EMCO	--	300003328-0000	na		
6	CTIA-Chamber – Software EMQuest	--	EMCO	--	300003328-0001	na		
7	CTIA-Chamber - Antennas	Double Ridged Horn, Dipoles/Loops	EMCO	--	300003328-0002	na		
8	Power supply 0-50V	6633A	HP Meßtechnik	2851A-01222	300001530	12.5.07	24	12.5.09
9	MP5 Five-Beam-Laser	MP5	CST/berger		400000088	na		
10	Mount kit for Laptop	--	EMCO		300003295	na		
15	Antenna for signalling	3102 L Conical log spir	EMCO	40953	300003296	na		
16	Cable SMA-Con. 15m	KK-MF141-15	Huber & Suhner		400000090	Verified with path compensation		
17	Cables	--	Huber & Suhner	different	400000083	Verified with path compensation		
18	Limiting Amplifier	LA 02-801	JCA Tech.	101	300003341	na		
19	Spectrum Analyzer	FSP-7	R&S	100289	300003282	12.5.07	24	12.5.09
20	Switch Unit	TS-RSP	R&S	100155	300003281	Verified with path compensation		
21	Step Attenuator 0 ...139.9 dB	RSP	R&S	860712002	400000079	Verified with path compensation		
22	Signalgenerator	SMIQ03B	R&S	836206 /0091	300002679	1.6.07	36	1.6.10
23	Universal Communication Tester	CMU 200	R&S	106240	300003321	2.5.07	24	2.5.09
24	Hygro-Thermometer	-/-, 5-45°C, 20-100%rF	Thies Clima	-/-	400000089	27.4.07	12	27.4.08

7 Photographs of the Test Set-up

Photo documentation

Photo 1:

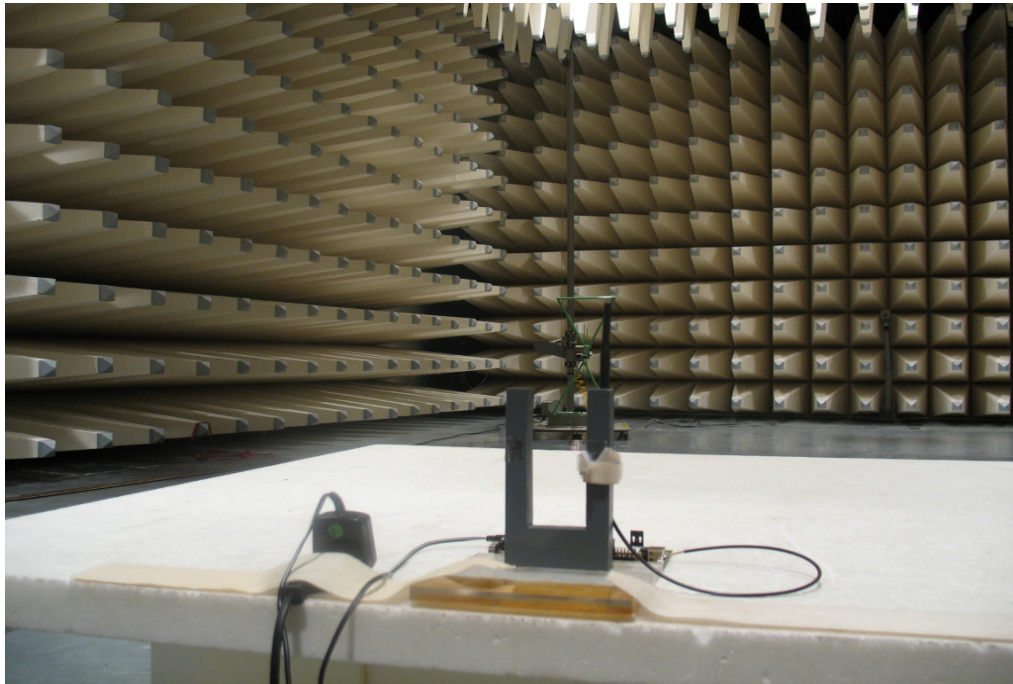


Photo 2:

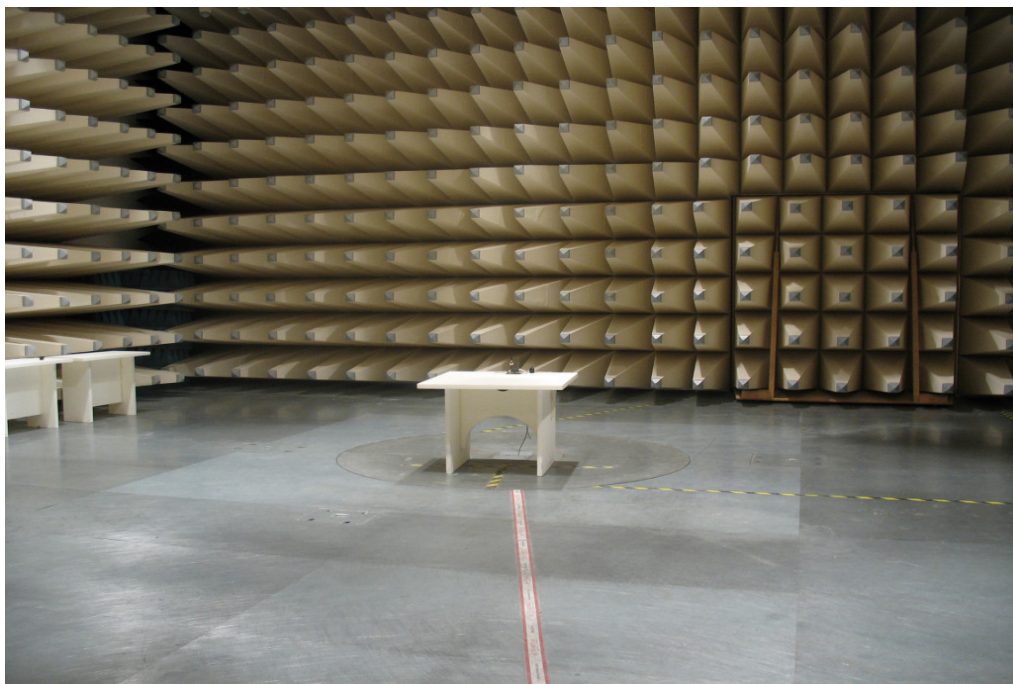
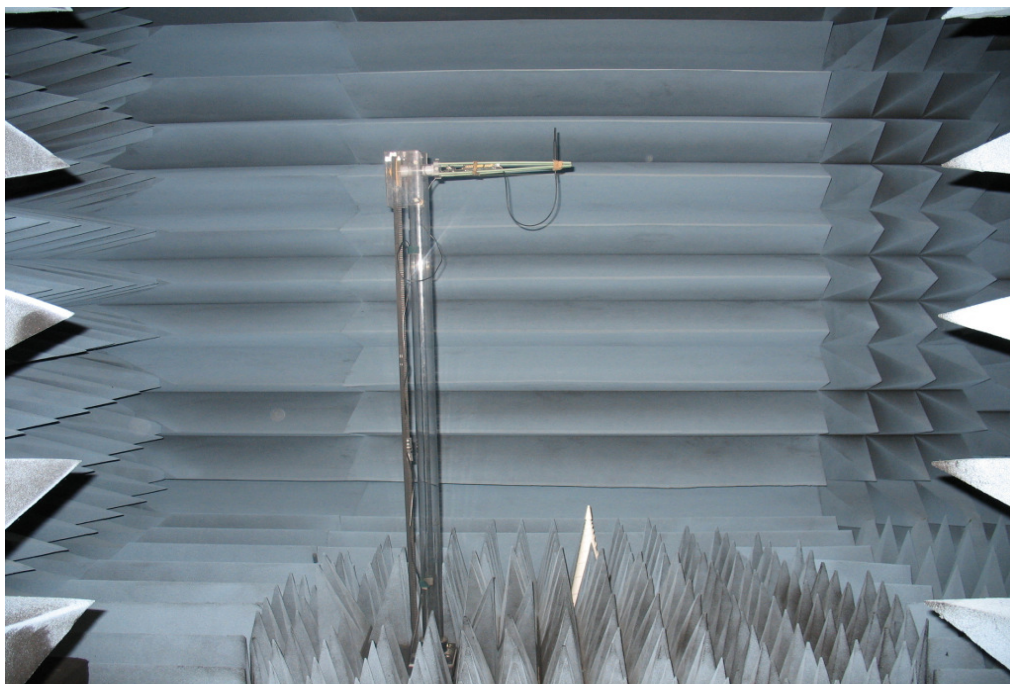


Photo 3:



8 Photographs of the EUT

Photo documentation

Photo 1:

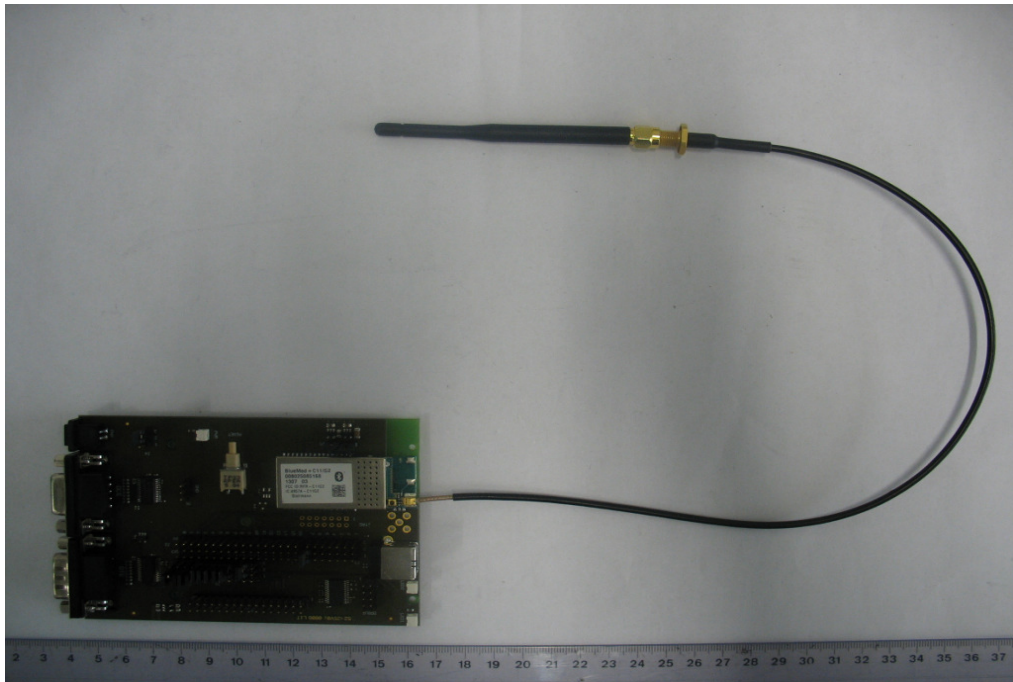


Photo 2:

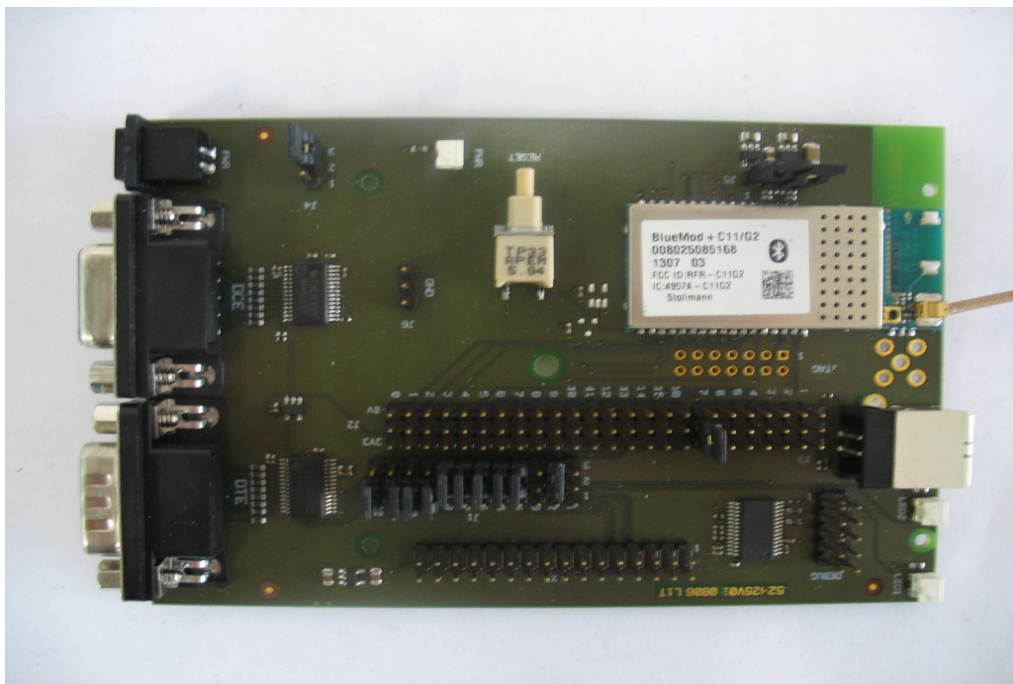


Photo 3:



Photo 4:

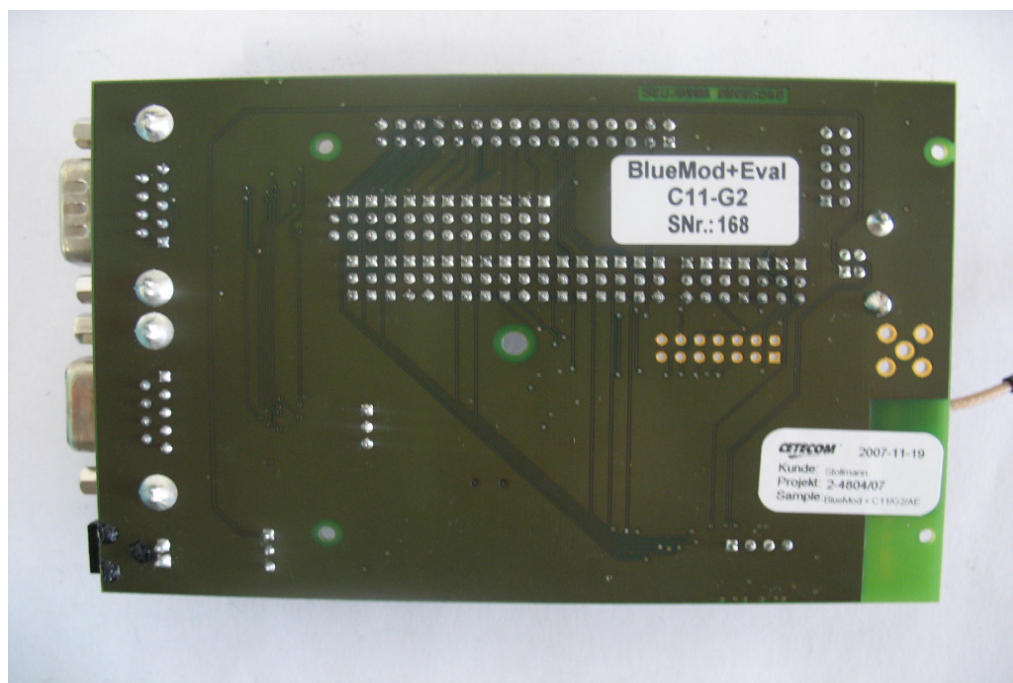


Photo 5:

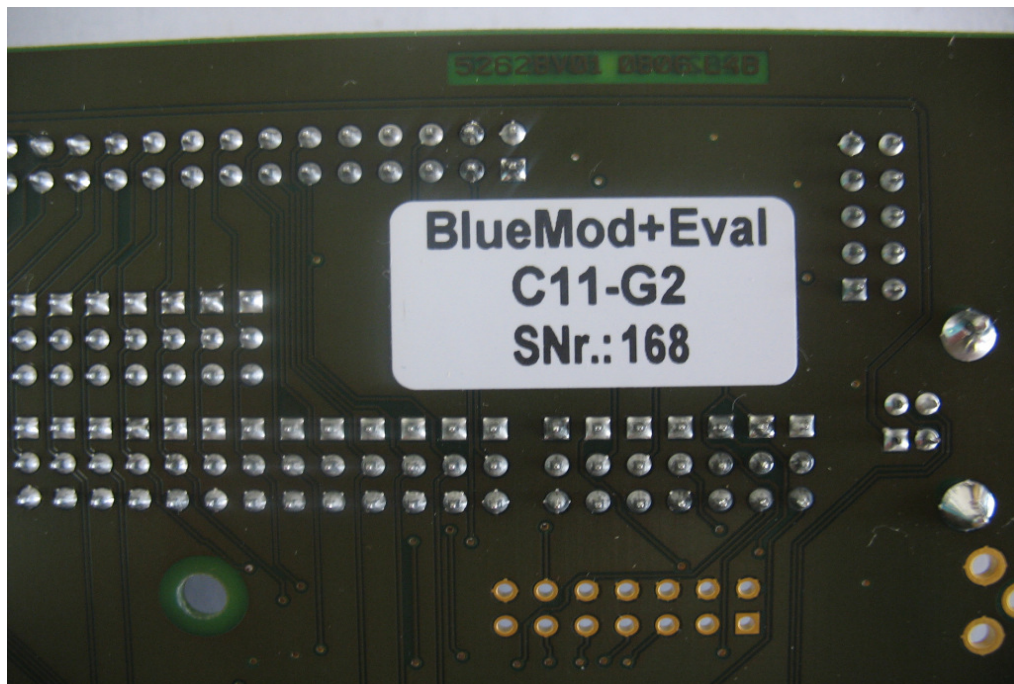


Photo 6:

