



# REPORT

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P. R. China

## Permissible change measurements on GSM Base station Transceiver unit with FCC ID: B5KCKRC1311005-2 (8 appendices)

### Test object

Transceiver Unit dTRU 8 Edge, product KRC 131 1005/2, revision R3A, SN AE51995157

See appendix 1 for general information. Appendix 7 lists hardware and software.  
Appendix 8 shows photos of the test object.

### Summary

| Standard                                    | Compliant | Appendix | Remarks |
|---------------------------------------------|-----------|----------|---------|
| <b>FCC CFR 47</b>                           |           |          |         |
| 2.1046 RF Power output                      | Yes       | 2        | -       |
| 2.1049 Occupied bandwidth                   | Yes       | 3        | -       |
| 2.1051 Band Edge                            | Yes       | 4        | Note 1  |
| 2.1051 Spurious emission at antenna port    | Yes       | 5        | -       |
| 2.1053 Field strength of spurious radiation | Yes       | 6        | -       |

Note 1: The maximum output power that can be used on the channels adjacent to the frequency band edges (channel 128 and 251) with CDU-G 8 is with the RBS master 2E control software configured with a value of 39, resulting in a maximum measured RMS output power of 38.1 dBm for 16QAM and 37.7 dBm for 32QAM modulation.

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## Description - Equipment Under Test (EUT)

Equipment: GSM Base station transceiver unit (dTRU) 850 MHz

TX frequency range: 869.2 – 893.8 MHz

Modulations: GMSK, 8PSK, 16QAM and 32QAM

| Nominal maximum output power, RMS value in [dBm] | Modulation |      |       |       |
|--------------------------------------------------|------------|------|-------|-------|
|                                                  | GMSK       | 8PSK | 16QAM | 32QAM |
| In uncombined (UC) mode                          | 46.3       | 43.0 | 41.6  | 41.2  |
| In combined (HC) mode                            | 43.0       | 39.7 | 38.3  | 37.9  |
| In TCC mode                                      | 49.0       | 45.7 | 44.3  | 43.9  |

Supply voltage to test object 27.2 V DC  
supplied internally from backplane in the RBS 2206 V2.  
The RBS backplane was powered by the PSU output.  
The PSU was supplied from the AC mains.

## Purpose of test

The purpose of this test is to justify a Class II permissive change of the test object to include the use of 16QAM and 32QAM modulation. This report verifies maintained performance characteristics of affected items according FCC CFR47 by re-testing the updated equipment with GMSK, 16QAM and 32QAM modulation.

## Summary of results

Measurement results are near identical for all modulations, apart from RMS output power, where GMSK modulation results in the highest RMS output power. GMSK modulation can be considered a worst case set-up.

## Tested configuration

All measurements were performed with the test object installed in a RBS 2206 V2 rack. The hardware lists for radiated and conducted measurements are shown in appendix 7. The test object was activated at maximum power, configured for TCC mode with RBS master 2E setting 51, resulting in the highest output power achievable. Random data was transmitted in all time slots with the various modulations being tested, one at a time. This set-up was considered a worst-case configuration.

An additional band edge measurement was done on the channels 128 and 251 adjacent to the band edge with the test object configured for uncombined (UC) mode and the output power reduced as far as necessary to meet band edge requirements on channels 128 and 251. In this configuration only TX 1 was active with RBS master 2E software setting 39. Random data was transmitted in all time slots with various modulations being tested, one at a time.

**Conducted measurements**

Conducted measurements were done at the output connector of the CDU-G 8, product number BFL 119 155/1, revision R3A, serial number A40004WCLZ.

**Radiated measurements**

During radiated emission measurements the CDU-G 8 output TX(/RX) 0 was via a 50 ohm attenuator connected to a spectrum analyser to monitor the transmitted signal. For the scope of this test it was deemed sufficient to measure and compare radiated spurious emission at the TX band center frequency for GMSK, 16QAM and 32QAM modulation. GMSK modulation with approximately 3.5 dB higher RMS output power than 8PSK modulation was chosen as worst case reference modulation to compare the new 16QAM and 32QAM modulations with.

**Frequencies used**

| ARFCN | Frequency |     | Comment                                        |
|-------|-----------|-----|------------------------------------------------|
| 128   | 869.2     | MHz | Low TX frequency used in uncombined (UC) mode  |
| 129   | 869.4     | MHz | Low TX frequency used in TCC mode              |
| 190   | 881.6     | MHz | TX band center frequency, used in TCC mode     |
| 250   | 893.6     | MHz | High TX frequency used in TCC mode             |
| 251   | 893.8     | MHz | High TX frequency used in uncombined (UC) mode |

**Manufacturer's representative**

Hua Yang, Ericsson (China) Communications Company Ltd

**References**

Measurements were done according to relevant parts of the following standards:  
ANSI/TIA/EIA-603-C-2004  
ANSI/TIA/EIA 136-280-D-2002

**Reservation**

The test results in this report apply only to the particular Equipment Under Test (EUT) as declared in the report.

**Delivery of test object**

The test object was delivered: 2010-05-07

## Test equipment

| Measurement equipment                    | Calibration Due | SP number |
|------------------------------------------|-----------------|-----------|
| Anechoic chamber, Hertz                  | 2010-10         | 15:116    |
| Boonton RF Peak power meter/analyzer     | 2010-09         | 503 144   |
| Boonton Power sensor 56518-S/4           | 2012-02         | 503 146   |
| Rohde & Schwarz FSQ40                    | 2010-07         | 504 143   |
| Rohde & Schwarz FSIQ40                   | 2010-10         | 503 738   |
| Rohde & Schwarz ESI40                    | 2010-07         | 503 125   |
| Rohde & Schwarz Vector Network Analyser  | 2010-07         | 503 687   |
| Chase bilog antenna CBL 6121A            | 2011-10         | 502 460   |
| Schaffner Reference Dipole BSRD6500      | 2012-03         | 502 181   |
| EMCO Horn Antenna 3115                   | 2011-01         | 502 175   |
| EMCO Horn Antenna 3115                   | 2011-02         | 501 548   |
| MITEQ Low Noise Amplifier                | 2010-06         | 503 277   |
| Attenuator 40 dB                         | 2010-06         | 504 159   |
| Attenuator 30 dB                         | 2010-08         | 900 229   |
| Wainright high pass filter               | 2011-03         | 504 199   |
| RLC Electronics high pass filter F-16149 | 2010-06         | 503 739   |
| Multimeter Fluke 87                      | 2011-01         | 502 190   |
| Testo 615 temperature and humidity meter | 2012-03         | 503 498   |

## Uncertainties

Measurement and test instrument uncertainties are described in the quality assurance documentation "SP-QD 10885". The uncertainties are calculated with a coverage factor  $k=2$  (95% level of confidence).

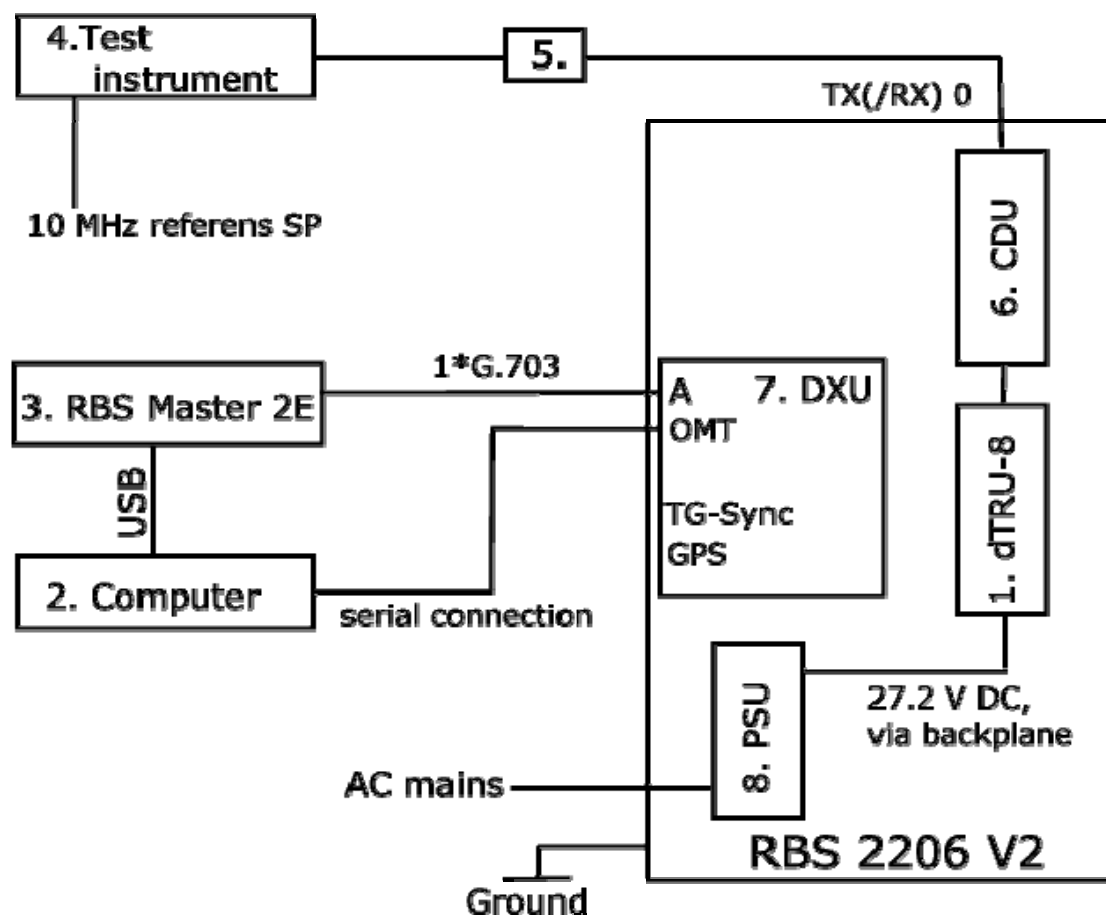
## Test engineers

Fredrik Isaksson and Reinhold Reul

## Test witnesses

Bo Zhao and Kevin Sun, Ericsson (China) Communications Company Ltd.

### Test set-up, conducted measurements



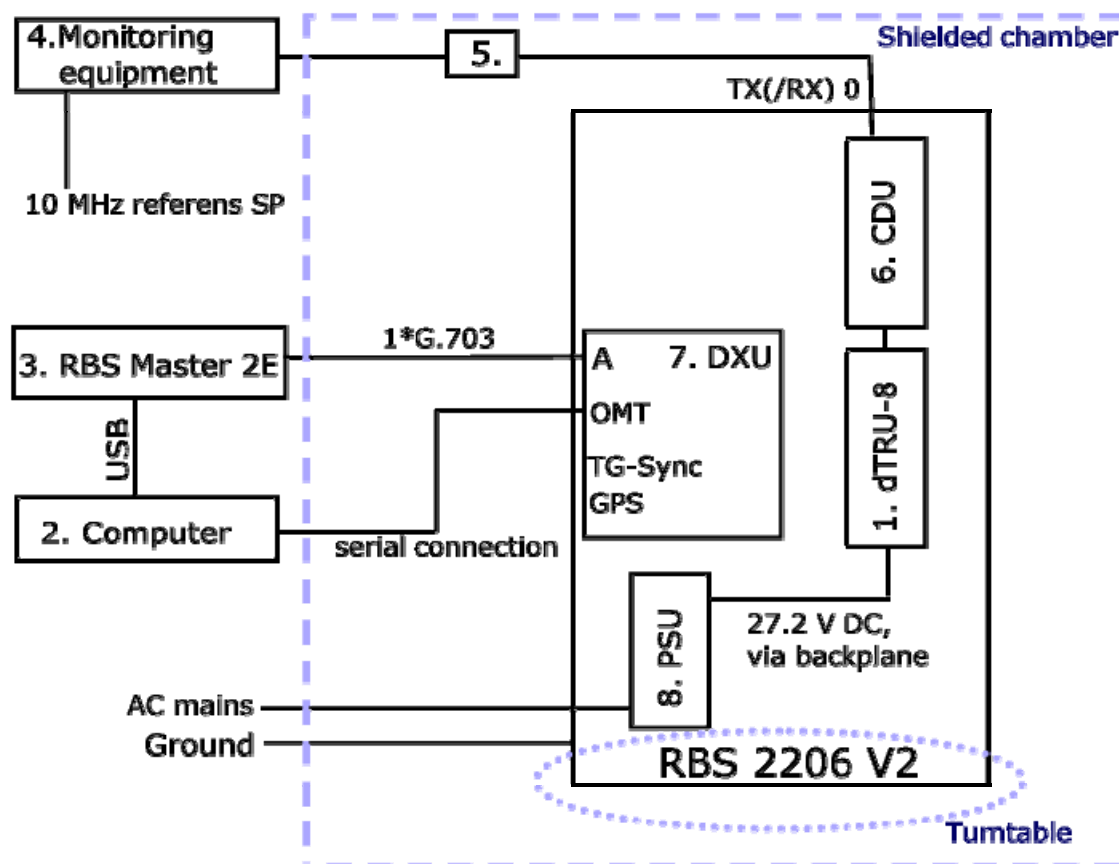
### Test object

1. Transceiver Unit dTRU-8 Edge,  
product KRC 131 1005/2, revision R3A, SN AE51995157  
with FCC ID: B5KCKRC1311005-2

### Functional test equipment

2. HP laptop computer model Compaq NC6400, SN CND70310FD  
With software RBS Master2 control software, revision R7D02
3. Ericsson RBS Master 2E hardware, product number LBY 107 1007/3, revision R1C  
BAMS 1000735209
4. Measurement equipment specified in respective appendix  
The modulation type was verified using client-supplied Agilent MXA Signal Analyser  
model N9020A 20 Hz – 26.5 GHz, BAMS 1000737857
5. Attenuator / filter listed under test equipment in respective appendix
6. CDU-G 8, product BFL 119 155/1, revision R3A, serial number A40004WCLZ
7. DXU according RBS hardware list in appendix 7
8. PSU according RBS hardware list in appendix 7

### Test set-up, radiated emission



### Test object

1. Transceiver Unit dTRU-8 Edge,  
product KRC 131 1005/2, revision R3A, SN AE51995157  
with FCC ID: B5KCKRC1311005-2

### Functional test equipment

2. HP laptop computer model Compaq NC6400 SN CND72717JP  
With software RBS Master2 control software, revision R7D02
3. Ericsson RBS Master 2E hardware, product number LBY 107 1007/3, revision R1C,  
BAMS 1000735211
4. Rohde & Schwarz FSIQ40 for signal monitoring, SP 503738
5. Attenuator 30 dB, SP 900229
6. CDU-G 8, product BFL 119 155/1, revision R3A, serial number A40004WCLZ
7. DXU according RBS hardware list in appendix 7
8. PSU according RBS hardware list in appendix 7



FCC ID: B5KCKRC1311005-2

Appendix 1

**Test object dTRU-8 connections****Interface**

27.2 V DC via PSU & RBS backplane  
TX 1 + TX 2, interconnection to CDU in TCC mode  
Interconnection TX 1 + HC 1 in TCC mode  
Interconnection TX 2 + HC 2 in TCC mode  
RX 1 to CXU10  
RX 2 to CXU10  
RX 3 not connected  
RX 4 not connected

**Type of port**

DC power  
RF/Antenna  
RF interconnect in  
TCC mode  
RF/Antenna  
RF/Antenna  
RF/Antenna  
RF/Antenna

**External RBS rack connections****Interface**

AC mains  
Used CDU TX(/RX) 0, used for measurement / monitoring  
Used CDU TX(/RX) 1 and other CDU's outputs were unconnected  
G.703, shielded multi-wire with RJ-45connector, mode E1  
External alarm not connected  
ESB not connected  
GPS not connected  
OMT interface (only configuration, not connected in normal use)

**Type of port:**

AC power  
RF/Antenna  
RF/Antenna  
Telecom  
Signal  
Signal  
Signal  
O/M

## RF Power output measurements according to CFR 47 2.1046

|                    |                             |                        |
|--------------------|-----------------------------|------------------------|
| Date<br>2010-05-24 | Temperature<br>22 °C ± 3 °C | Humidity<br>44 % ± 5 % |
|--------------------|-----------------------------|------------------------|

### Test set-up and procedure

Measurements were made at the CDU-G output connector. The output was connected to a Peak power analyser via a 50 ohm attenuator.

| Measurement equipment                    | SP number |
|------------------------------------------|-----------|
| Boonton RF Peak power meter/analyzer     | 503 144   |
| Boonton Power sensor 56518-S/4           | 503 146   |
| Multimeter Fluke 87                      | 502 190   |
| Testo 615 temperature and humidity meter | 503 498   |

**Measurement uncertainty:** 0.7 dB

### Results

Configuration: TCC mode, RBS master 2E setting 51

The measurement was performed at ARFCN 190 (881.6 MHz).

| Test conditions<br>Modulation |                            | Transmitter power (dBm)<br>Peak / RMS |             |             |
|-------------------------------|----------------------------|---------------------------------------|-------------|-------------|
|                               |                            | GMSK                                  | 16QAM       | 32QAM       |
| T <sub>nom</sub> 22 °C        | V <sub>nom</sub> 27.2 V DC | 49.9 / 49.0                           | 49.8 / 45.0 | 49.8 / 44.1 |

### Limits

CFR 47 § 22.913: 500 W ERP shall not be exceeded.

|           |     |
|-----------|-----|
| Complies? | Yes |
|-----------|-----|

## Occupied bandwidth measurements according to 47CFR 2.1049

|                    |                             |                        |
|--------------------|-----------------------------|------------------------|
| Date<br>2010-05-24 | Temperature<br>22 °C ± 3 °C | Humidity<br>44 % ± 5 % |
|--------------------|-----------------------------|------------------------|

### Test set-up and procedure

Measurements were made at CDU-G 8 output connector. The output was connected to a spectrum analyser. The spectrum analyser was connected to an external 10 MHz reference standard during the measurements.

| Measurement equipment                    | SP number |
|------------------------------------------|-----------|
| Rohde & Schwarz FSQ40                    | 504 143   |
| Attenuator                               | 504 159   |
| Testo 615 temperature and humidity meter | 503 498   |

**Measurement uncertainty:** 3.7 dB, 1.33 kHz

### Results

The results are shown in appendix 3.1

Configuration: TCC mode, RBS master 2E setting 51

The measurement was performed at ARFCN 190 (881.6 MHz).

|            | <b>Modulation</b> | <b>OBW</b> |
|------------|-------------------|------------|
| Diagram 1: | GMSK              | 240.7 kHz  |
| Diagram 2: | 16QAM             | 240.7 kHz  |
| Diagram 3: | 32QAM             | 241.3 kHz  |

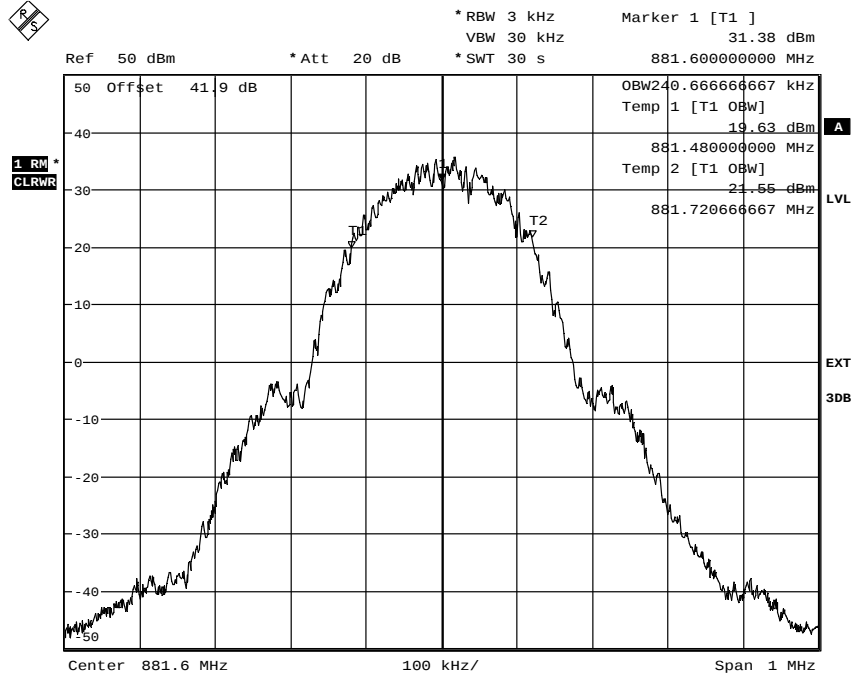
|           |     |
|-----------|-----|
| Complies? | Yes |
|-----------|-----|



FCC ID: B5KCKRC1311005-2

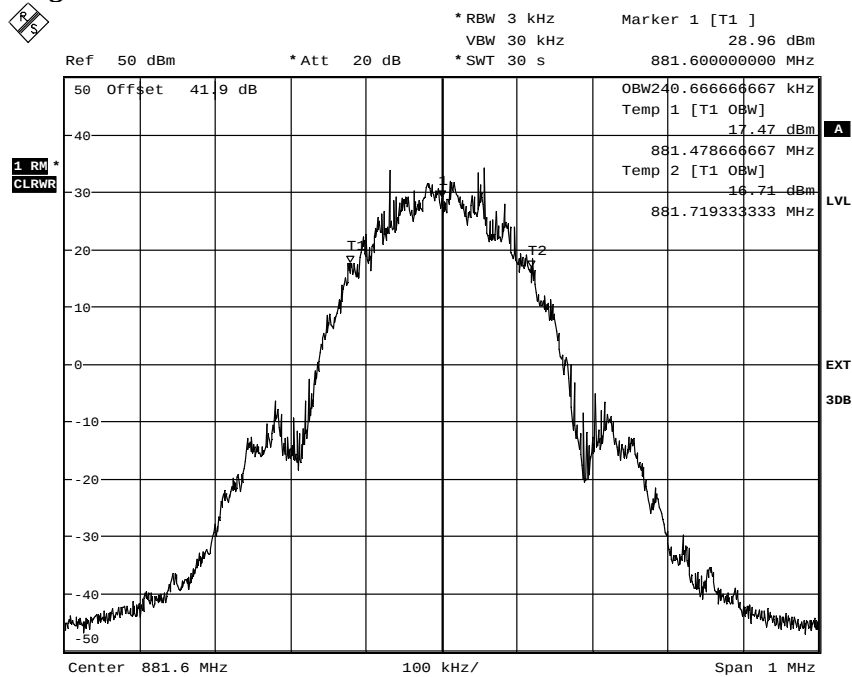
Appendix 3.1

Diagram 1



Date: 24.MAY.2010 12:54:15

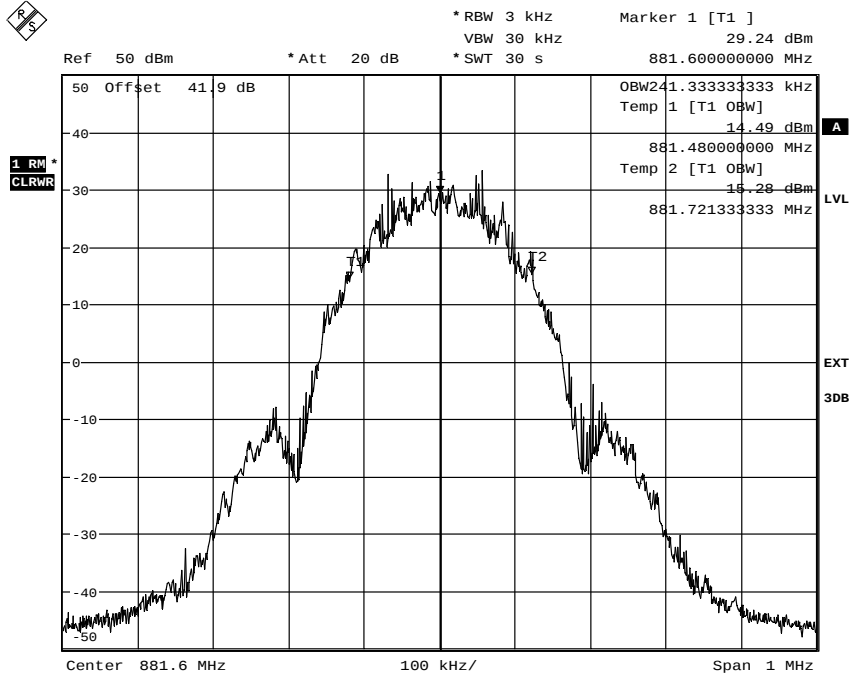
Diagram 2



Date: 24.MAY.2010 13:24:53



Diagram 3



## Band edge measurements according to 47CFR 2.1051

| Date       | Temperature  | Humidity   |
|------------|--------------|------------|
| 2010-05-21 | 22 °C ± 3 °C | 64 % ± 5 % |
| 2010-05-24 | 22 °C ± 3 °C | 44 % ± 5 % |

### Test set-up and procedure

The measurements were made per definition in §22.917, with the CDU-G 8 output connector connected to a spectrum analyzer with the RMS detector activated. The spectrum analyzer was connected to an external 10 MHz reference standard during the measurements.

FCC rules specify a RBW of 100 KHz for measurements of emissions >1 MHz away from the band edges. For the measurement close to the band edges a resolution bandwidth of 3 kHz was used. The limit line was adapted to the reduced RBW by -15.2 dB ( $10 \cdot \log(3/100)$ ) to -28.2 dBm for frequencies >1 MHz away from the band edges.

| Measurement equipment                    | SP number |
|------------------------------------------|-----------|
| Rohde & Schwarz FSQ40                    | 504 143   |
| Attenuator                               | 504 159   |
| Testo 615 temperature and humidity meter | 503 498   |

**Measurement uncertainty:** 3.7 dB

### Results

The results are shown in appendix 4.1

Configuration: Uncombined (UC) mode, RBS master 2E setting 39

- Diagram 1 16QAM, ARFCN 128 (869.2 MHz)
- Diagram 2 16QAM, ARFCN 251 (893.8 MHz)
- Diagram 3 32QAM, ARFCN 128 (869.2 MHz)
- Diagram 4 32QAM, ARFCN 251 (893.8 MHz)

Configuration: TCC mode, RBS master 2E setting 51

- Diagram 5 16QAM, ARFCN 129 (869.4 MHz)
- Diagram 6 16QAM, ARFCN 250 (893.6 MHz)
- Diagram 7 32QAM, ARFCN 129 (869.4 MHz)
- Diagram 8 32QAM, ARFCN 250 (893.6 MHz)

### Remark

The maximum output power that can be used on the channels adjacent to the frequency band edges (channel 128 and 251) with CDU-G 8 is with the RBS master 2E control software configured with a value of 39, resulting in a maximum measured RMS output power of 38.1 dBm for 16QAM and 37.7 dBm for 32QAM modulation.

### Limits

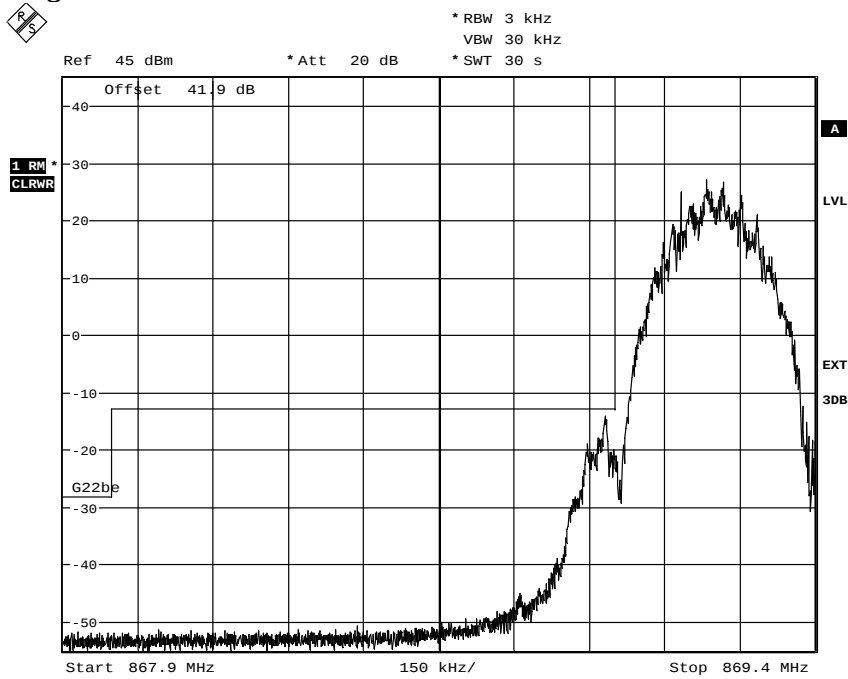
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log P$  dB.

|           |     |
|-----------|-----|
| Complies? | Yes |
|-----------|-----|

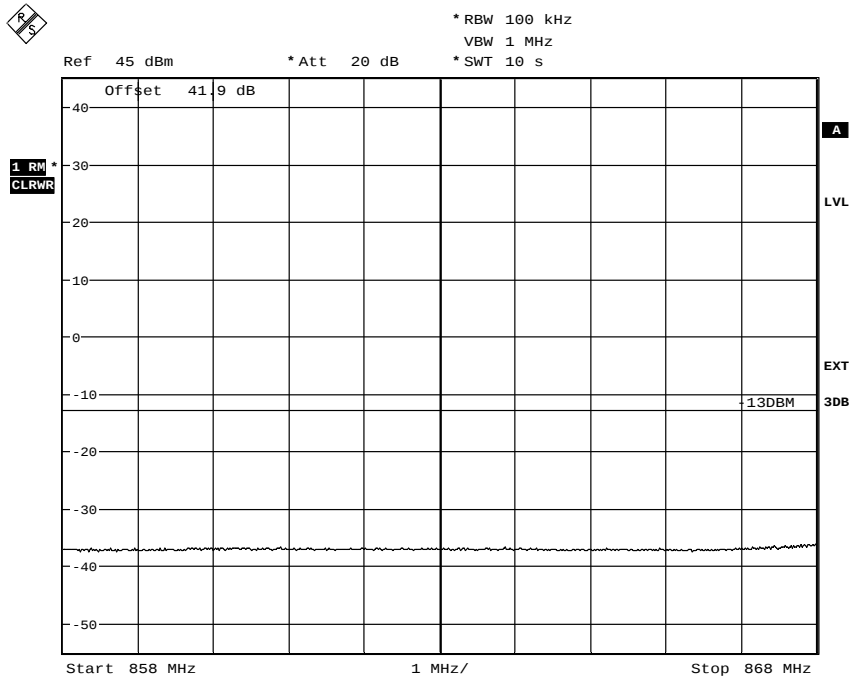
FCC ID: B5KCKRC1311005-2

Appendix 4.1

Diagram 1

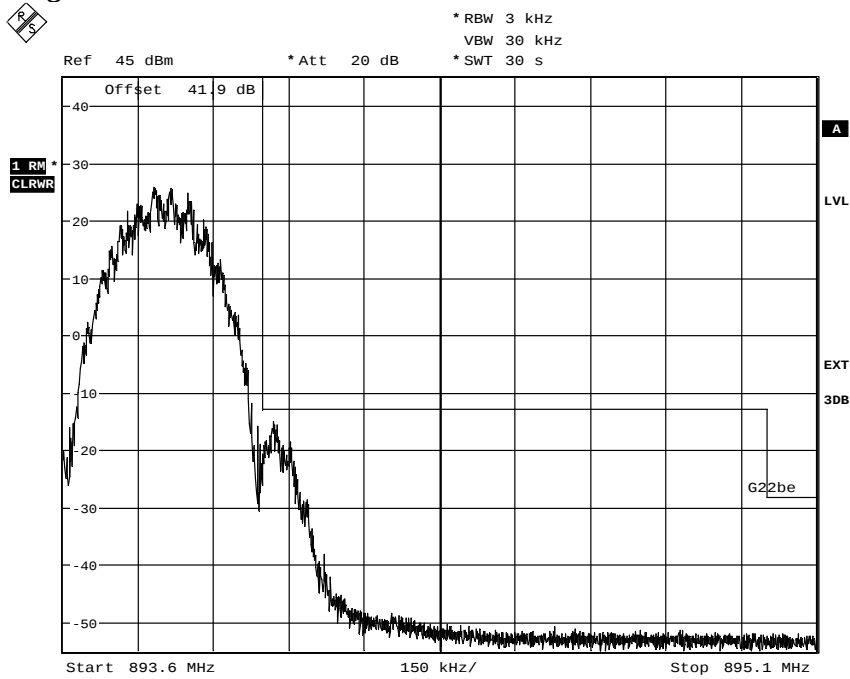


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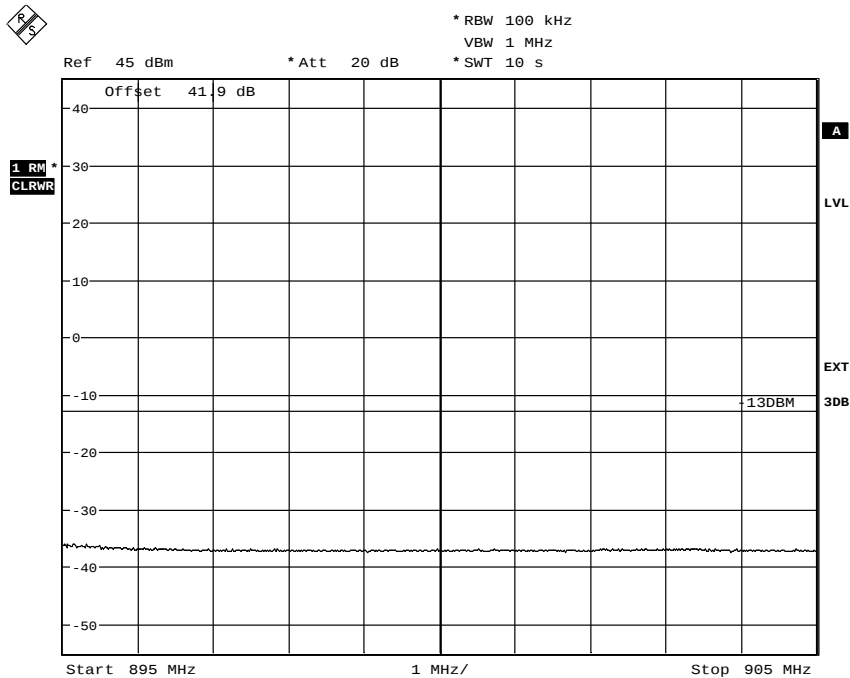


Date: 21.MAY.2010 15:43:08

Diagram 2



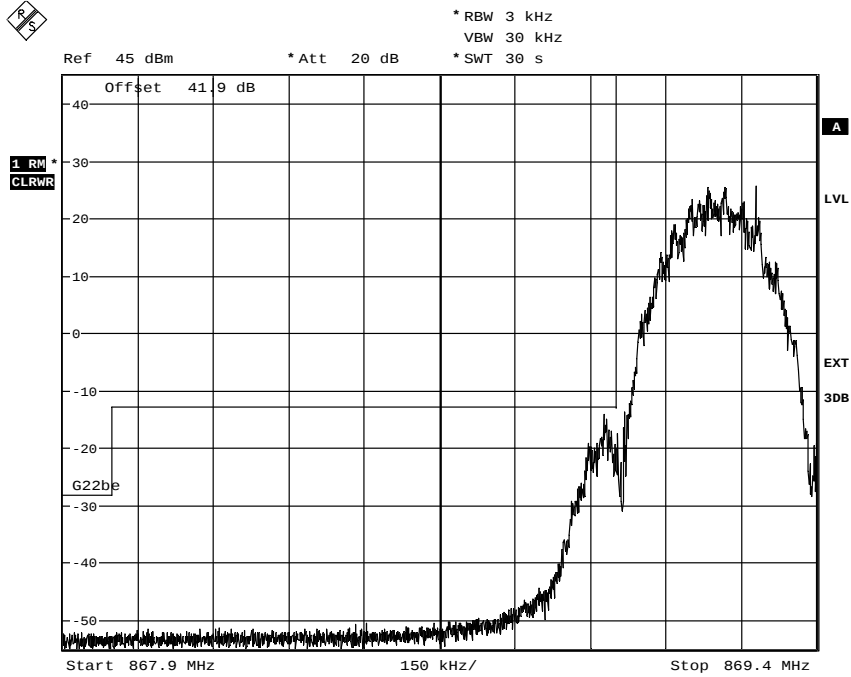
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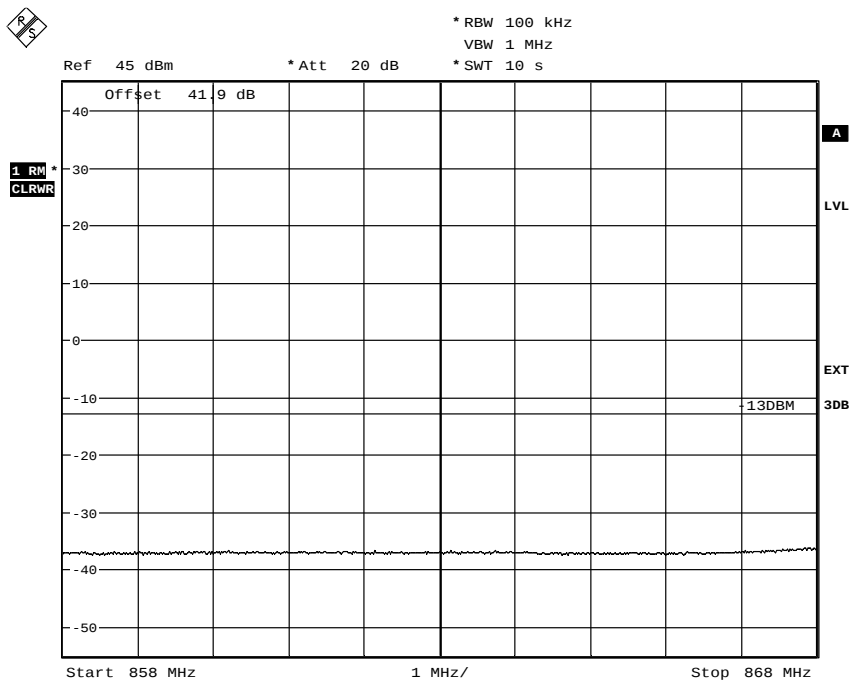
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Diagram 3

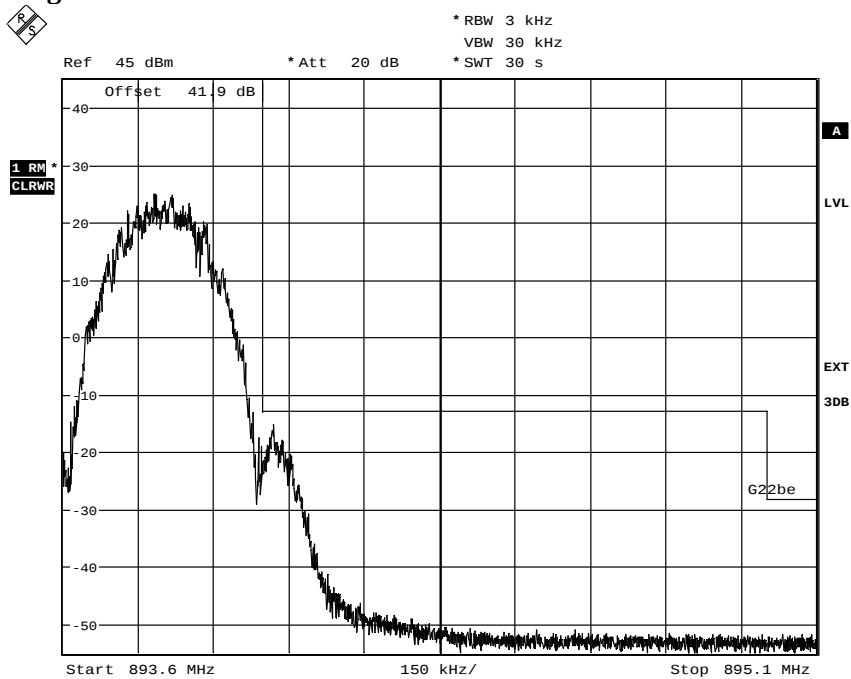


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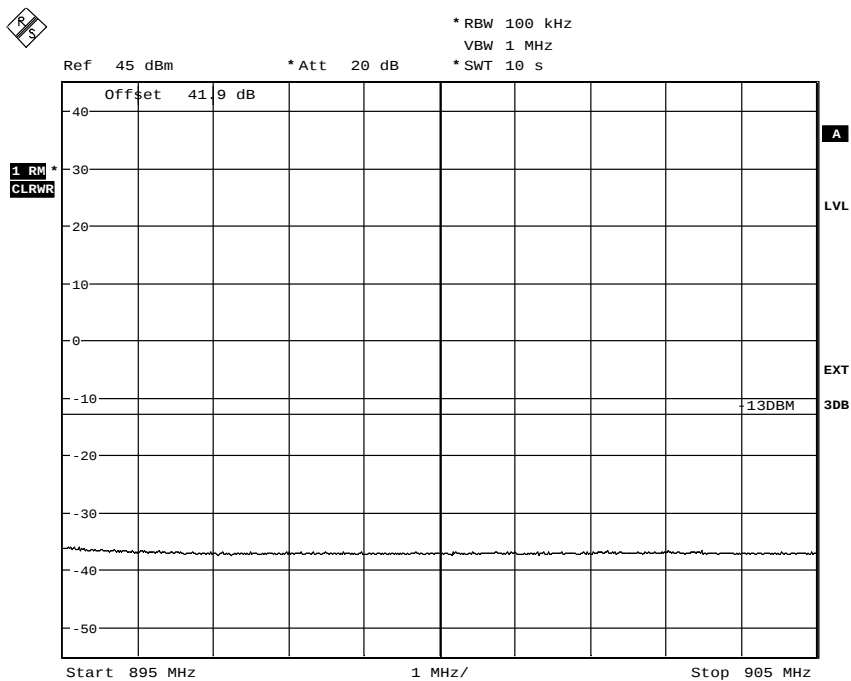


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Diagram 4

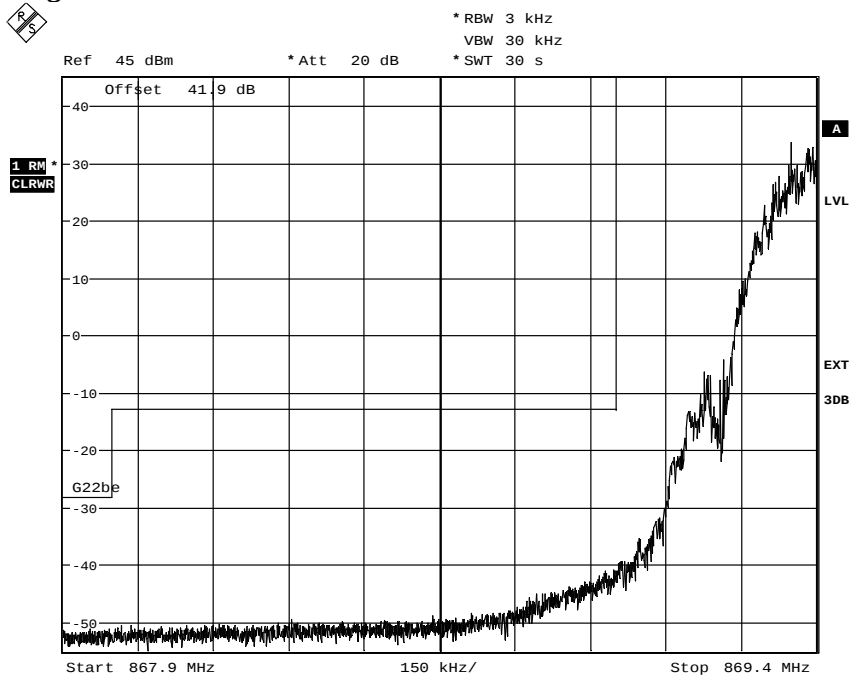


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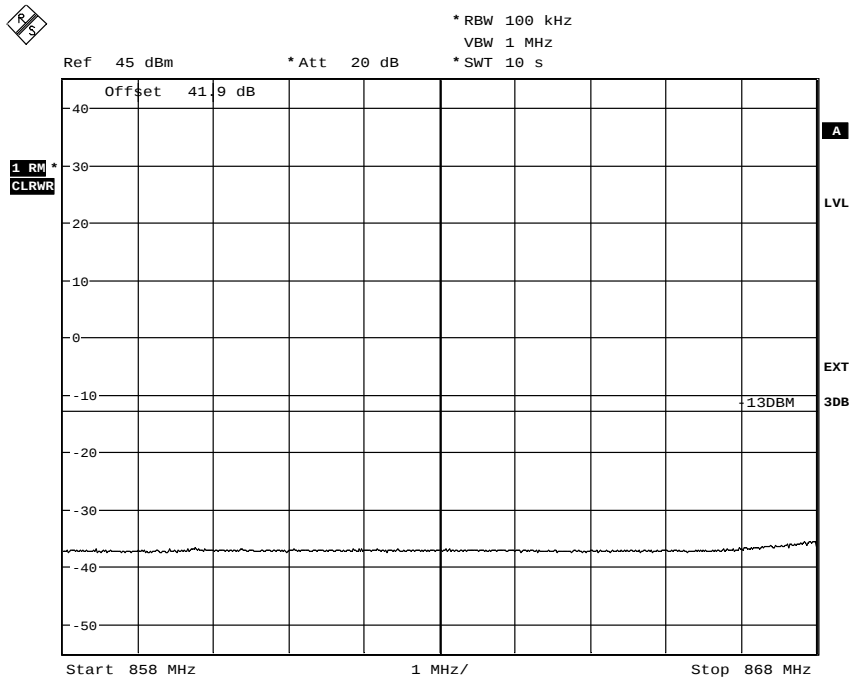


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Diagram 5

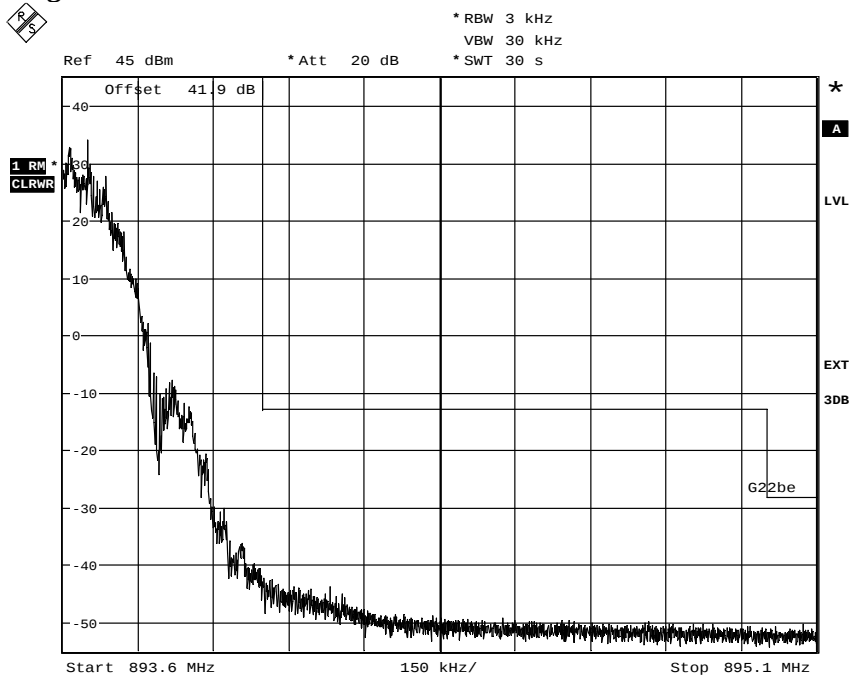


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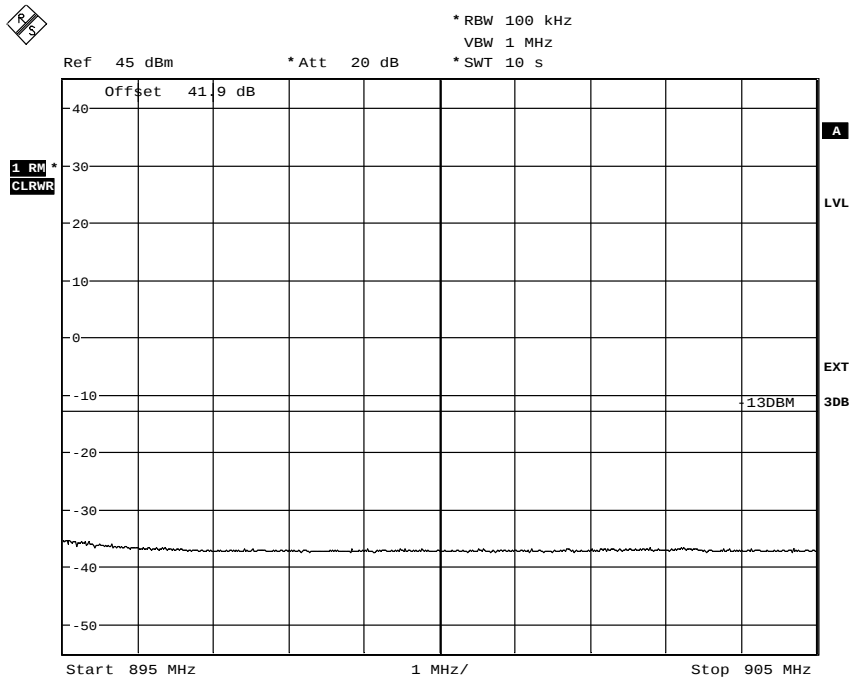


Date: 24.MAY.2010 13:45:04

Diagram 6



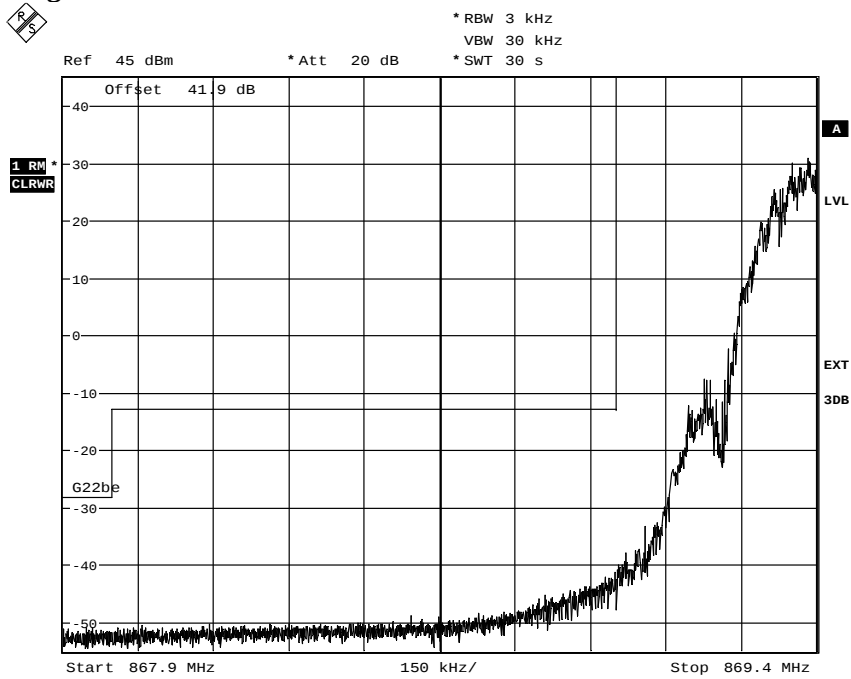
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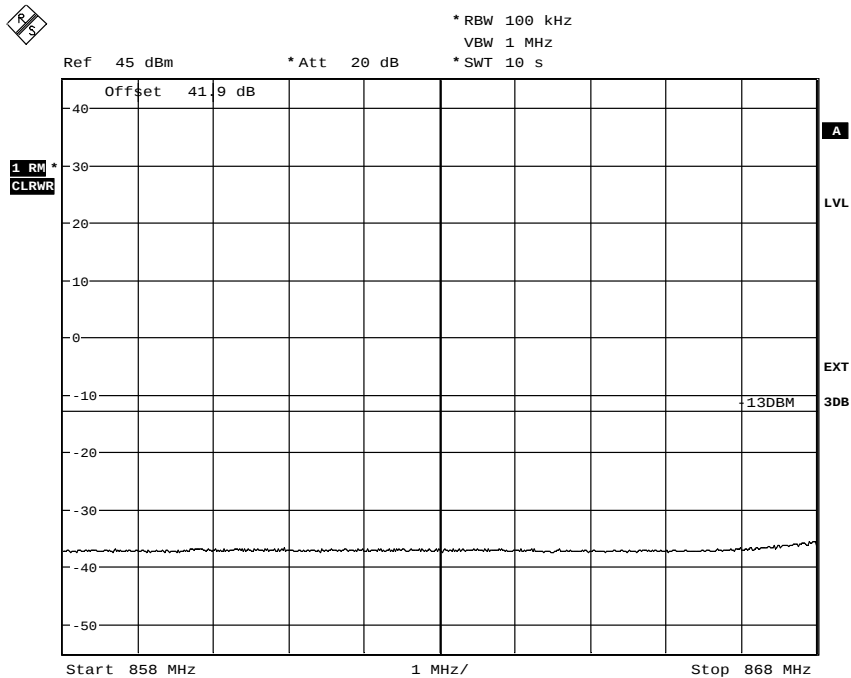
Date: 24.MAY.2010 14:02:53



Diagram 7



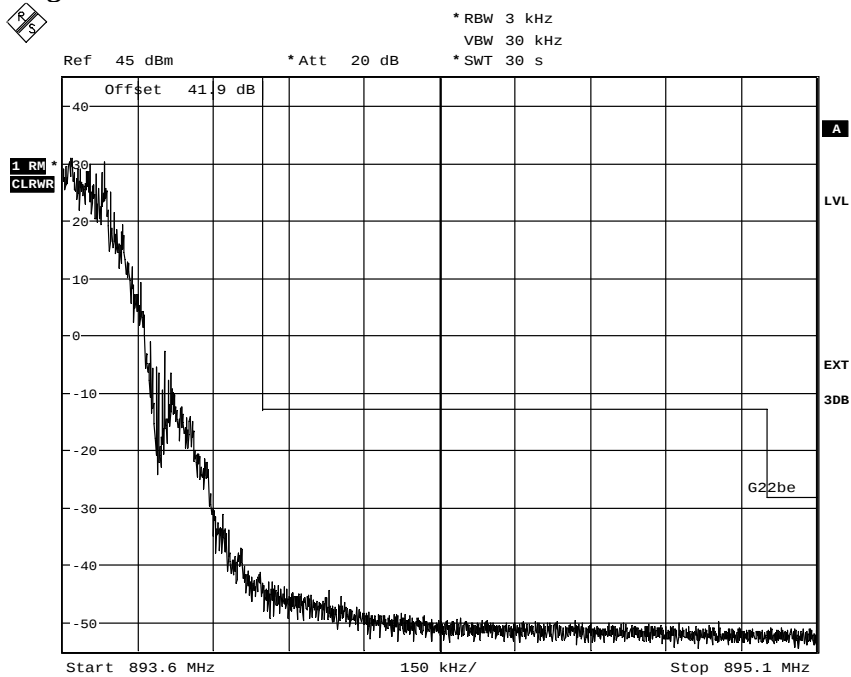
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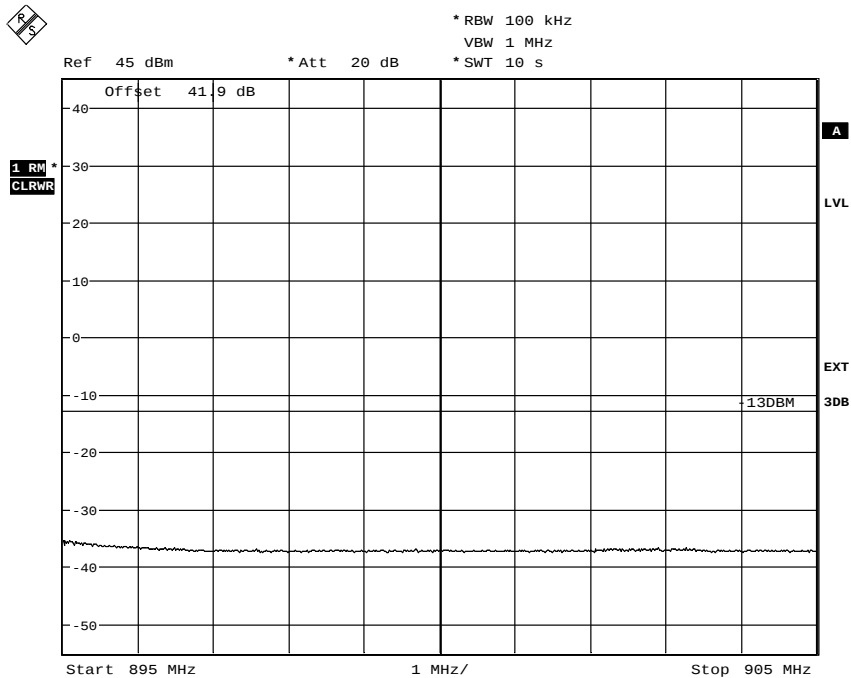
Date: 24.MAY.2010 13:50:26



Diagram 8



Date: 24.MAY.2010 14:07:30



Date: 24.MAY.2010 14:08:43

### Conducted spurious emission measurements according to 47CFR 2.1051

|                    |                             |                        |
|--------------------|-----------------------------|------------------------|
| Date<br>2010-05-24 | Temperature<br>22 °C ± 3 °C | Humidity<br>44 % ± 5 % |
|--------------------|-----------------------------|------------------------|

#### Test set-up and procedure

The measurements were made at the CDU-G 8 output connector. The output was connected to a spectrum analyser. A pre-measurement was performed with the PEAK detector activated. Emission above the limit with the PEAK detector is measured with the RMS detector activated. The spectrum analyser was connected to an external 10 MHz reference standard during the measurements.

| Measurement equipment                    | SP number |
|------------------------------------------|-----------|
| Rohde & Schwarz FSQ40                    | 504 143   |
| Attenuator                               | 504 159   |
| Wainright high pass filter               | 504 199   |
| Testo 615 temperature and humidity meter | 503 498   |

**Measurement uncertainty:** 3.7 dB

#### Results

The results are shown in appendix 5.1

Configuration: TCC mode, RBS master 2E setting 51, TX ARFCN 190 (881.6 MHz)

Diagram 1: GMSK, 9 KHz – 1 GHz

Diagram 2: GMSK, 1 GHz – 10 GHz

Diagram 3: 16QAM, 9 KHz – 1 GHz

Diagram 4: 16QAM, 1 GHz – 10 GHz

Diagram 5: 32QAM, 9 KHz – 1 GHz

Diagram 6: 32QAM, 1 GHz – 10 GHz

#### Remark

The emission at 9 kHz on some plots was not generated by the test object. A complementary measurement with a smaller RBW showed that it was related to the LO feedthrough.

#### Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log P$  dB.

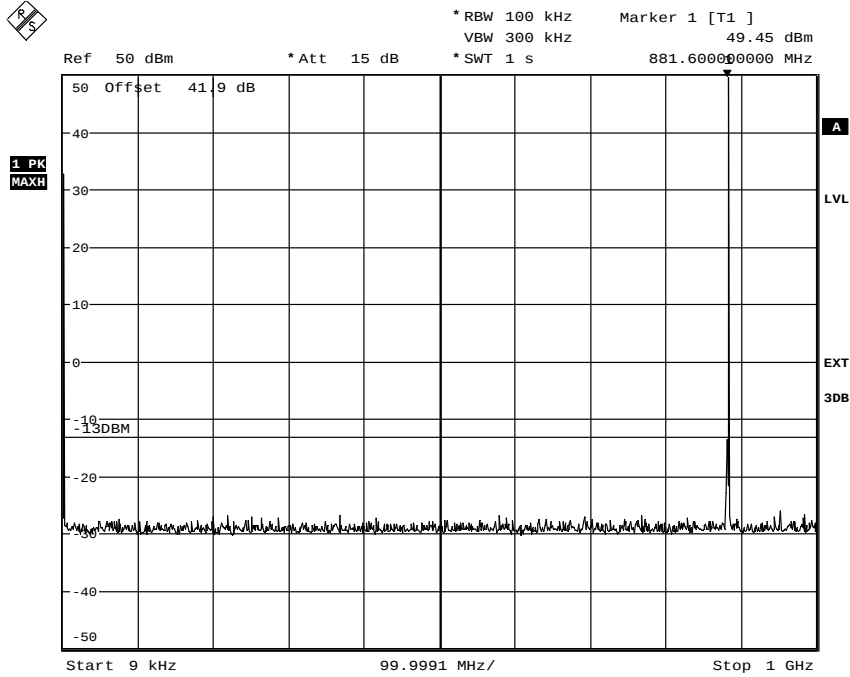
|           |     |
|-----------|-----|
| Complies? | Yes |
|-----------|-----|



FCC ID: B5KCKRC1311005-2

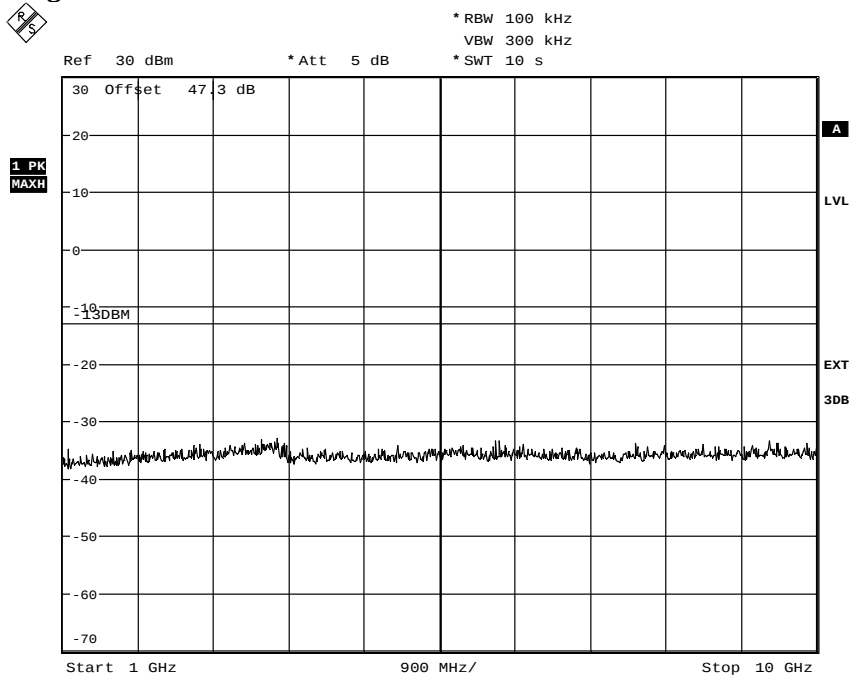
Appendix 5.1

Diagram 1



Date: 24.MAY.2010 12:55:42

Diagram 2



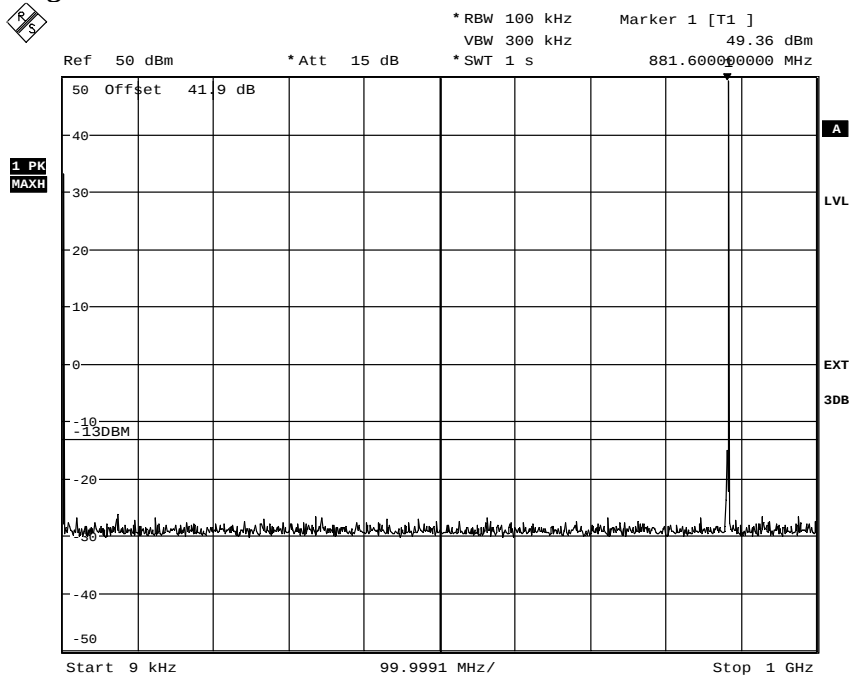
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FCC ID: B5KCKRC1311005-2

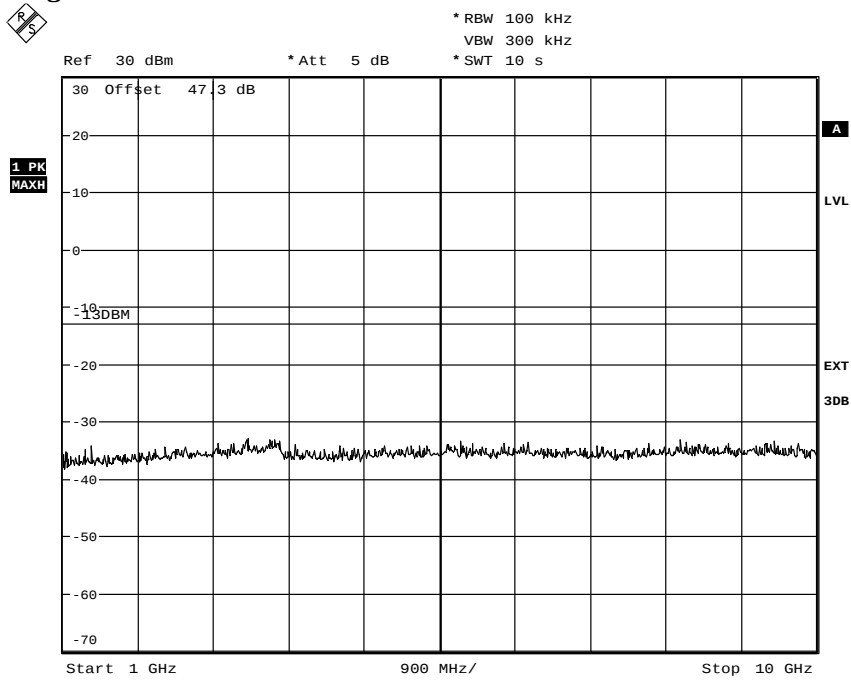
Appendix 5.1

Diagram 3



Date: 24.MAY.2010 13:25:47

Diagram 4



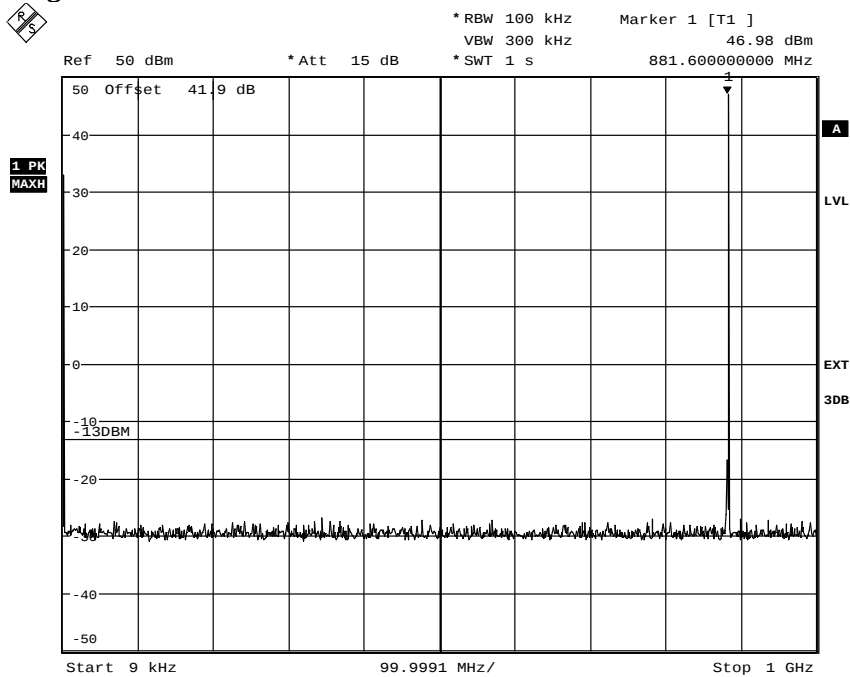
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FCC ID: B5KCKRC1311005-2

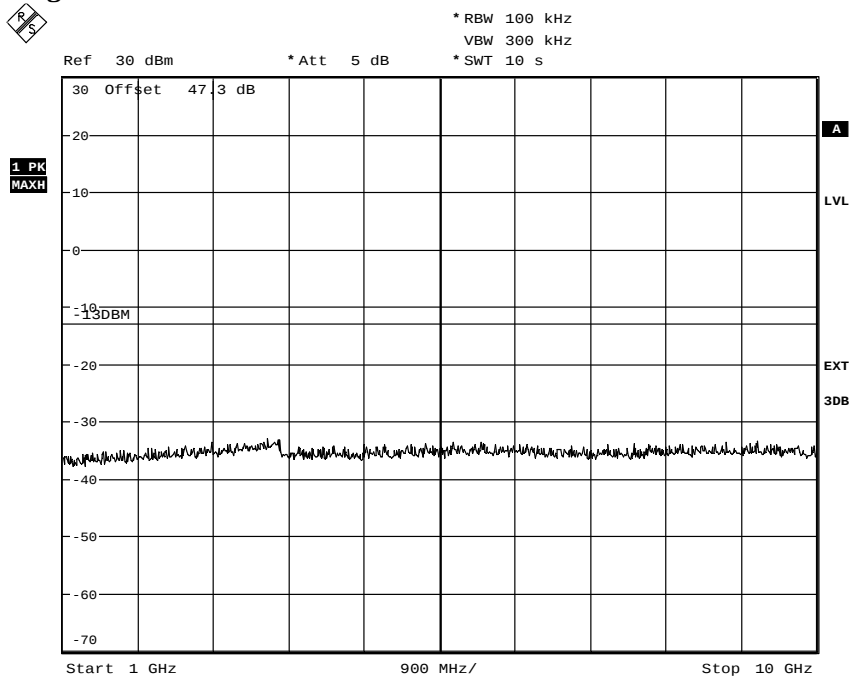
Appendix 5.1

Diagram 5



Date: 24.MAY.2010 13:33:42

Diagram 6



Date: 24.MAY.2010 13:37:48

## Field strength of spurious radiation measurements according to 47CFR 2.1053

|                    |                             |                        |
|--------------------|-----------------------------|------------------------|
| Date<br>2010-05-27 | Temperature<br>22 °C ± 3 °C | Humidity<br>28 % ± 5 % |
|--------------------|-----------------------------|------------------------|

### Test set-up and procedure

The measurements were performed with both horizontal and vertical polarisation of the antenna. The antenna distance was 3 m in the frequency range 30 MHz – 10 GHz. The measurements were performed in Effective Radiated Power (ERP). A fully anechoic chamber was used during the measurements. The chamber is regularly calibrated with the substitution method and from that calibration an ERP correction factor is derived. The correction factor was used as a transducer to get the readings in ERP.

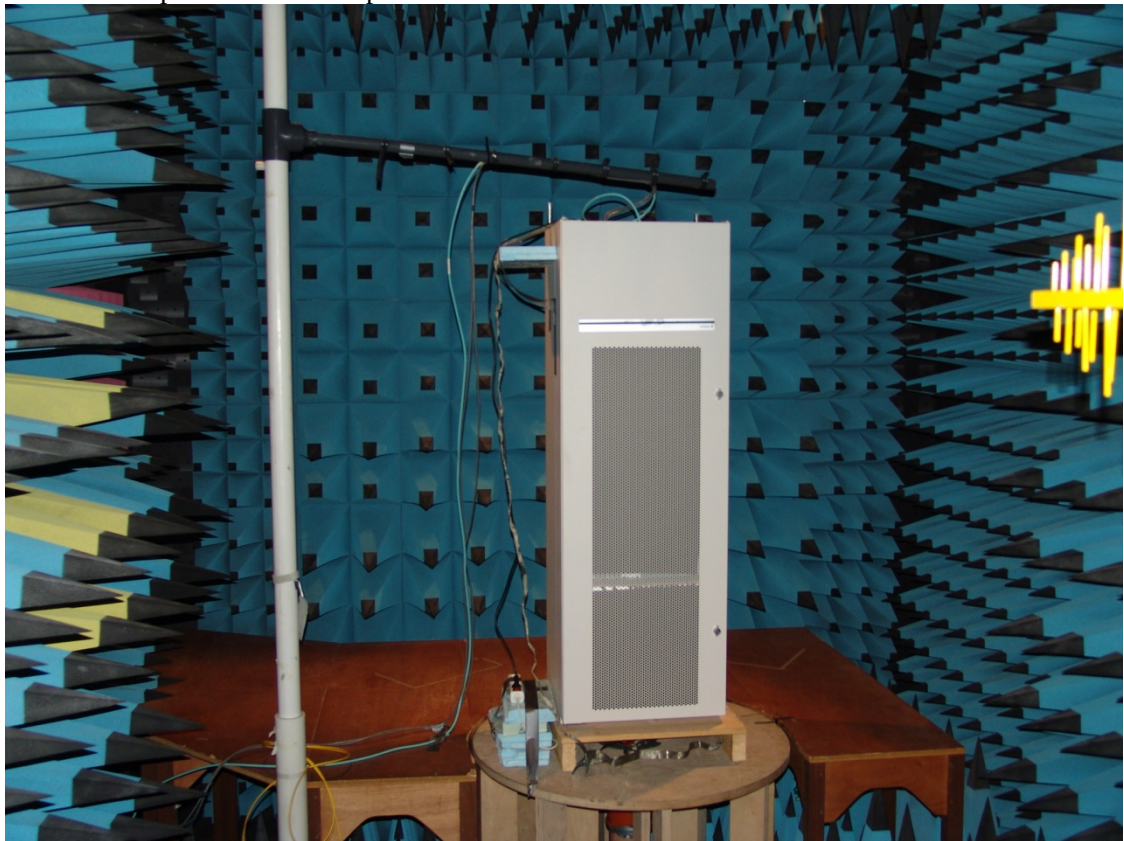
The measurement procedure was as the following:

1. A pre-measurement was first performed with peak detector. The EUT was continuously measured in 360 degrees.
2. Spurious radiation on frequencies closer than 6 dB to the limit was re-measured with RMS detector and with the substitution method according to the standard.

EUT configuration: TCC mode, RBS master 2E setting 51, TX ARFCN 190 (881.6 MHz)

| Measurement equipment                        | SP number |
|----------------------------------------------|-----------|
| Anechoic chamber, Hertz                      | 15:116    |
| ROHDE & SCHWARZ FSIQ40 Signal Analyser       | 503 738   |
| ROHDE & SCHWARZ EMI Test Receiver ESI40      | 503 125   |
| Chase bilog antenna CBL 6121A                | 502 460   |
| Schaffner Reference Dipole BSRD6500          | 503 649   |
| EMCO Horn Antenna 3115                       | 502 175   |
| EMCO Horn Antenna 3115                       | 501 548   |
| MITEQ Low Noise Amplifier                    | 503 277   |
| ROHDE & SCHWARZ Vector Network Analyser      | 503 687   |
| Wainwright high pass filter WHKY1.0/15G-12SS | 504 199   |
| Testo 615 temperature and humidity meter     | 503 498   |

The test set-up is shown in the picture below:



**Results**

## Modulation GMSK

| Frequency<br>(MHz) | Spurious emission level (dBm)    |                                  |
|--------------------|----------------------------------|----------------------------------|
|                    | Vertical                         | Horizontal                       |
| 30-10 000          | All emission > 20 dB below limit | All emission > 20 dB below limit |

## Modulation 16QAM

| Frequency<br>(MHz) | Spurious emission level (dBm)    |                                  |
|--------------------|----------------------------------|----------------------------------|
|                    | Vertical                         | Horizontal                       |
| 30-10 000          | All emission > 20 dB below limit | All emission > 20 dB below limit |

## Modulation 32QAM

| Frequency<br>(MHz) | Spurious emission level (dBm)    |                                  |
|--------------------|----------------------------------|----------------------------------|
|                    | Vertical                         | Horizontal                       |
| 30-10 000          | All emission > 20 dB below limit | All emission > 20 dB below limit |

**Measurement uncertainty:** 3.2 dB**Limits**

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log P$  dB.

|           |     |
|-----------|-----|
| Complies? | Yes |
|-----------|-----|



FCC ID: B5KCKRC1311005-2

Appendix 7

**Hardware list RBS 2206 V2, conducted measurements**

| Unit               | Product Number | Revision | Serial Number |
|--------------------|----------------|----------|---------------|
| Cabinet RBS2206 V2 | SEB 112 1154/1 | R3A      | AB20131929    |
| Door               | SXK 109 7157/1 | R1B      |               |
| ACCU-11            | BMG 980 07/09  | R1C      | (S)BH41057584 |
|                    |                |          |               |
| Subrack            | BFL 119 424/1  | R2C      | -             |
| CDU-G8             | BFL 119 155/1  | R3A      | A40004WCL5    |
| CDU-G8             | BFL 119 155/1  | R3A      | A40004WCLZ    |
| CDU-G8             | BFL 119 155/1  | R3A      | A40004WCL9    |
|                    |                |          |               |
| Dummy              | SXK 107 5031/2 | R1B      | -             |
| CXU-10             | KRY 101 1856/1 | R3A      | A40003DCGF    |
| Dummy              | SXK 107 5031/1 | R1B      | -             |
|                    |                |          |               |
| TRU shelf          | BFL 119 425/1  | R1C      | -             |
| Backplane          | BFX 101 107/3  | R1B      | -             |
| Empty slot         | -              | -        | -             |
| Empty slot         | -              | -        | -             |
| dTRU-8             | KRC 131 1005/2 | R3A      | AE51995157    |
| Empty slot         | -              | -        | -             |
| Empty slot         | -              | -        | -             |
| Empty slot         | -              | -        | -             |
| IDM-11             | BMG 980 327/2  | R1C      | X181204836    |
|                    |                |          |               |
| PSU-shelf          | BFL 119 453/1  | R1A      | (S)BK41073469 |
| Backplane          | BFX 101 109/3  | R1B      | -             |
| PSU-AC-32          | BML 353 206/2  | R1C      | (S)BR8029553  |
| PSU-AC-32          | BML 353 206/2  | R1C      | (S)BR80299544 |
| PSU-AC-32          | BML 353 206/2  | R1C      | (S)BR80397740 |
| Dummy              | SXK 107 9314/1 | R1C      | -             |
| Cover plate        | -              | -        | -             |
| (Empty gap)        | -              | -        | -             |
| DXU-23             | BOE 602 21/1   | R1B      | AE53415783    |

**Hardware list RBS 2206 V2, radiated measurements**

| Unit                | Product Number | Revision | Serial Number |
|---------------------|----------------|----------|---------------|
| Cabinet RBS 2206 V2 | SEB 112 1154/1 | R3A      | AB20131929    |
| Door                | SXK 109 7157/1 | R1B      |               |
| ACCU-11             | BMG 980 07/09  | R1C      | (S)BH41057584 |
|                     |                |          |               |
| Subrack             | BFL 119 424/1  | R2C      | -             |
| CDU-G8              | BFL 119 155/1  | R3A      | A40004WCL5    |
| CDU-G8              | BFL 119 155/1  | R3A      | A40004WCLZ    |
| CDU-G8              | BFL 119 155/1  | R3A      | A40004WCL9    |
|                     |                |          |               |
| Dummy               | SXK 107 5031/2 | R1B      | -             |
| CXU-10              | KRY 101 1856/1 | R3A      | A40003DCGF    |
| Dummy               | SXK 107 5031/1 | R1B      | -             |
|                     |                |          |               |
| TRU shelf           | BFL 119 425/1  | R1C      | -             |
| Backplane           | BFX 101 107/3  | R1B      | -             |
| Empty slot          | -              | -        | -             |
| Empty slot          | -              | -        | -             |
| dTRU-8              | KRC 131 1005/2 | R3A      | AE51995157    |
| Empty slot          | -              | -        | -             |
| Empty slot          | -              | -        | -             |
| Empty slot          | -              | -        | -             |
| IDM-11              | BMG 980 327/2  | R1C      | X181204836    |
|                     |                |          |               |
| PSU-shelf           | BFL 119 453/1  | R1A      | (S)BK41073469 |
| Backplane           | BFX 101 109/3  | R1B      | -             |
| Empty slot          |                |          |               |
| Empty slot          |                |          |               |
| PSU-AC-32           | BML 353 206/2  | R1C      | (S)BR80299544 |
| Dummy               | SXK 107 9314/1 | R1C      | -             |
| Cover plate         | -              | -        | -             |
| (Empty gap)         | -              | -        | -             |
| DXU-23              | BOE 602 21/1   | R1B      | AE53415783    |

**Test object software during both radiated and conducted measurements**

| Software        | Revision |
|-----------------|----------|
| CXP 104 0007/05 | G11B     |

## Photos of the test object

Front side



Rear side



Left side



Right side

