# ANNEX D RESULTS OF THE RECEIVER MEASUREMENTS

## 1 RADIATED EMISSIONS (RECEIVER)

### 1.1 Preliminary radiated emission measurement (9 kHz to 1 GHz)

| | | | |
|---|---|---|---|
| Ambient temperature | 21 °C | Relative humidity | 38 % |

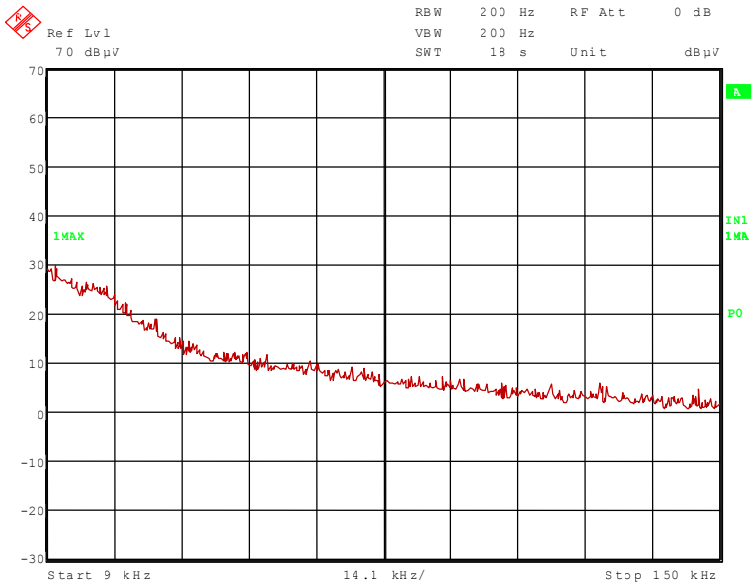
Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m.

Cable guide: The cable of the EUT is running vertically to the false floor. For detail information of test set-up and the cable guide refer to the pictures in annex A of this test report.

Test record: All results are shown in the following. The method of measurement is described in subclause 5.7.1 of the test report.

Supply voltage: During all measurements the EUT was supplied with 12.0 V DC.

110734_36.wmf: Spurious emissions from 9 kHz to 150 kHz (operation mode 5):




TEST EQUIPMENT USED FOR THE TEST:

| |
|---|
| 29, 31 – 35, 43, 55 |

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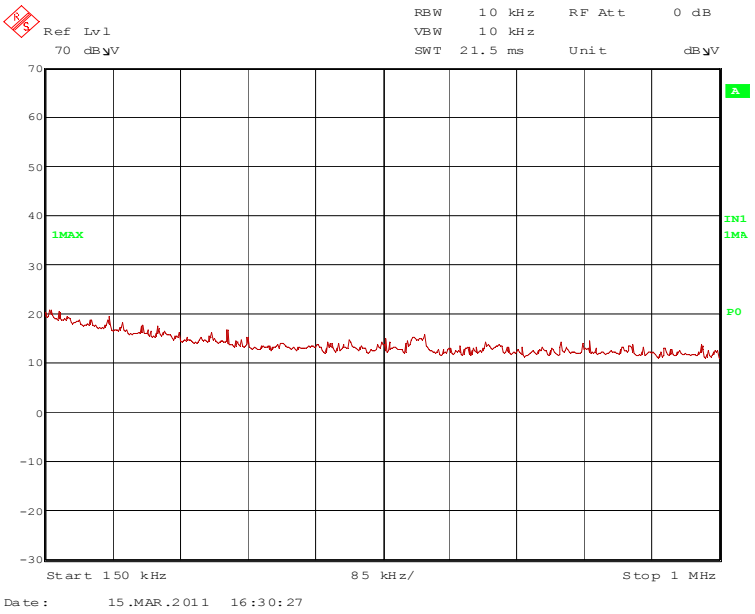
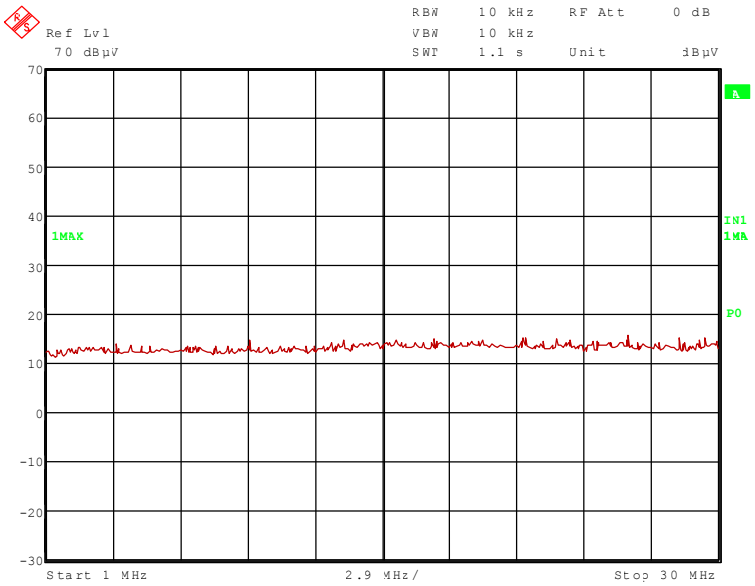
110734_37.wmf: Spurious emissions from 150 kHz to 1 MHz (operation mode 5):



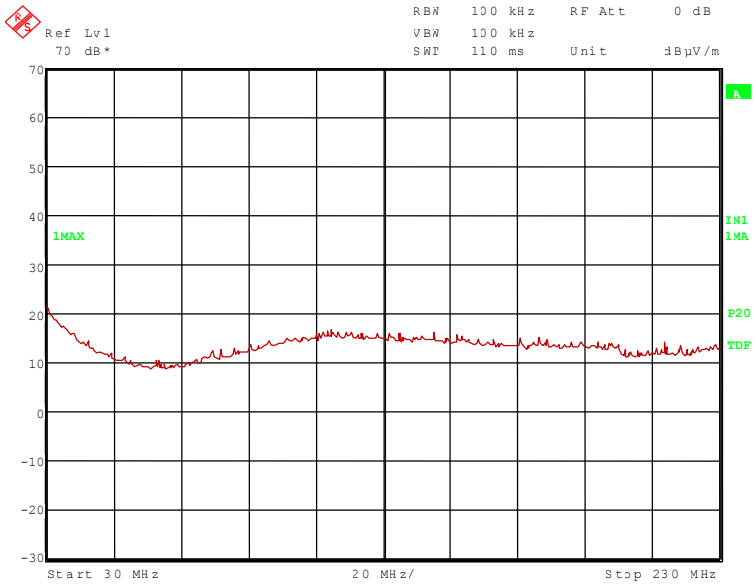

110734_38.wmf: Spurious emissions from 1 MHz to 30 MHz (operation mode 5):



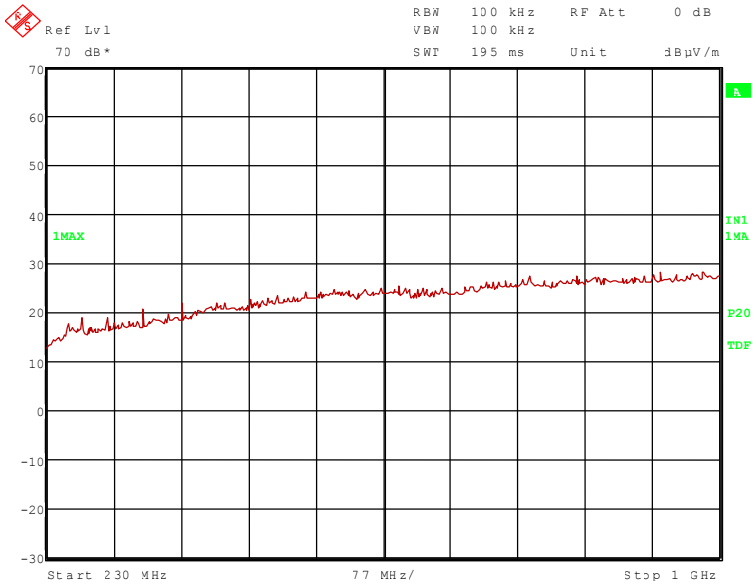

No significant frequencies above the noise floor of the system were found during the preliminary radiated emission test, so no measurements were carried out on the outdoor test site.

# ANNEX D RESULTS OF THE RECEIVER MEASUREMENTS

110734_39.wmf: Spurious emissions from 30 MHz to 230 MHz (operation mode 5):




110734_40.wmf: Spurious emissions from 230 MHz to 1 GHz (operation mode 5):




No significant frequencies above the noise floor of the system were found during the preliminary radiated emission test, so no measurements were carried out on the open area test site.

# ANNEX D RESULTS OF THE RECEIVER MEASUREMENTS

## 1.2 Preliminary radiated emission measurement (1 GHz to 12.5 GHz)

| | | | |
|---|---|---|---|
| Ambient temperature | 21 °C | Relative humidity | 38 % |

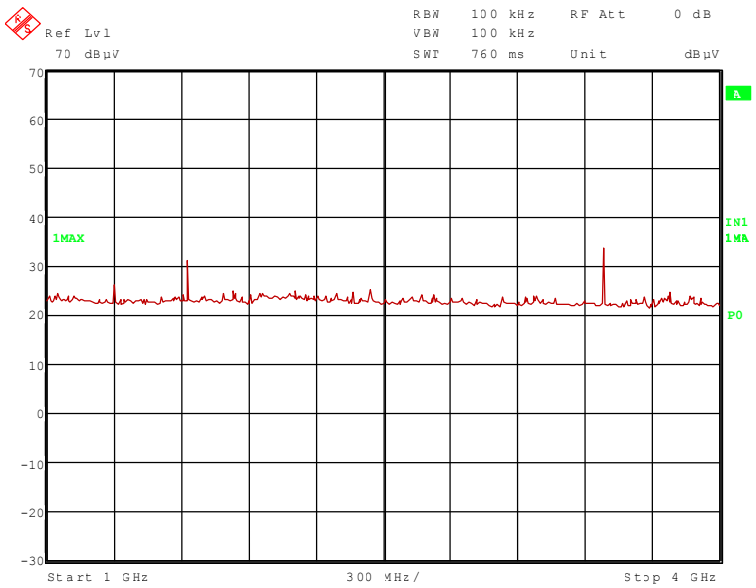
Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m.

Cable guide: The cable of the EUT is running vertically to the false floor. For detail information of test set-up and the cable guide refer to the pictures in annex A of this test report.

Test record: All results are shown in the following.

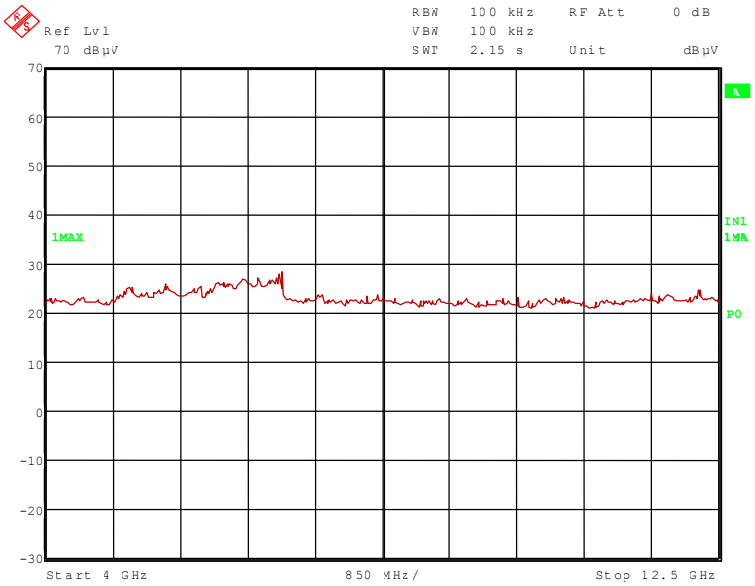
Supply voltage: During all measurements the EUT was supplied with 12.0 V DC.

110734_35.wmf: Spurious emissions from 1 GHz to 4 GHz (operation mode 5):



# ANNEX D RESULTS OF THE RECEIVER MEASUREMENTS

110734_34.wmf: Spurious emissions from 4 GHz 12.5 GHz (operation mode 5):




The following frequencies were found during the preliminary radiated emission measurement:

- 1.628 GHz and 3.482 GHz.

These frequencies have to be measured in a final measurement. The result is presented in the following.

TEST EQUIPMENT USED FOR THE TEST:

| |
|---|
| 29, 31 – 34, 36, 44, 49 |

# ANNEX D RESULTS OF THE RECEIVER MEASUREMENTS

## 1.3 Final radiated emission measurement (1 GHz to 12.5 GHz)

| | | | |
|---|---|---|---|
| Ambient temperature | 21 °C | Relative humidity | 38 % |

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.

Cable guide: The cable of the EUT is running vertically to the false floor. For detail information of test set-up and the cable guide refer to the pictures in annex A of this test report.

Test record: All results are shown in the following. The method of measurement is described in subclause 5.2.1 of the test report.

Supply voltage: During all measurements the EUT was supplied with 12.0 V DC.

Remark: Where not otherwise stated the test was carried out in test mode 5 of the EUT.

**Result measured with the peak detector:**

| Frequency GHz | Corr. value dBµV/m | Limit dBµV/m | Margin dB | Readings dBµV | Antenna factor 1/m | Preamp dB | Cable loss dB | Height cm | Pol. |
|---|---|---|---|---|---|---|---|---|---|
| 1.628 | 37.6 | 74.0 | 36.4 | 35.6 | 25.4 | 26.5 | 3.1 | 150 | Vert. |
| 3.482 | 45.8 | 74.0 | 28.2 | 36.5 | 31.1 | 26.3 | 4.5 | 150 | Vert. |
| Measurement uncertainty | | | | | +2.2 dB / -3.6 dB | | | | |

**Result measured with the average detector:**

| Frequency GHz | Corr. value dBµV/m | Limit dBµV/m | Margin dB | Readings dBµV | Antenna factor 1/m | Preamp dB | Cable loss dB | Height cm | Pol. |
|---|---|---|---|---|---|---|---|---|---|
| 1.628 | 29.5 | 54.0 | 24.5 | 27.5 | 25.4 | 26.5 | 3.1 | 150 | Vert. |
| 3.482 | 37.3 | 54.0 | 16.7 | 28.0 | 31.1 | 26.3 | 4.5 | 150 | Vert. |
| Measurement uncertainty | | | | | +2.2 dB / -3.6 dB | | | | |

Test result: Passed

| TEST EQUIPMENT USED FOR THE TEST: |
|---|
| 29, 31 – 34, 36, 44, 49 |