

## 5 TEST CONDITIONS AND RESULTS

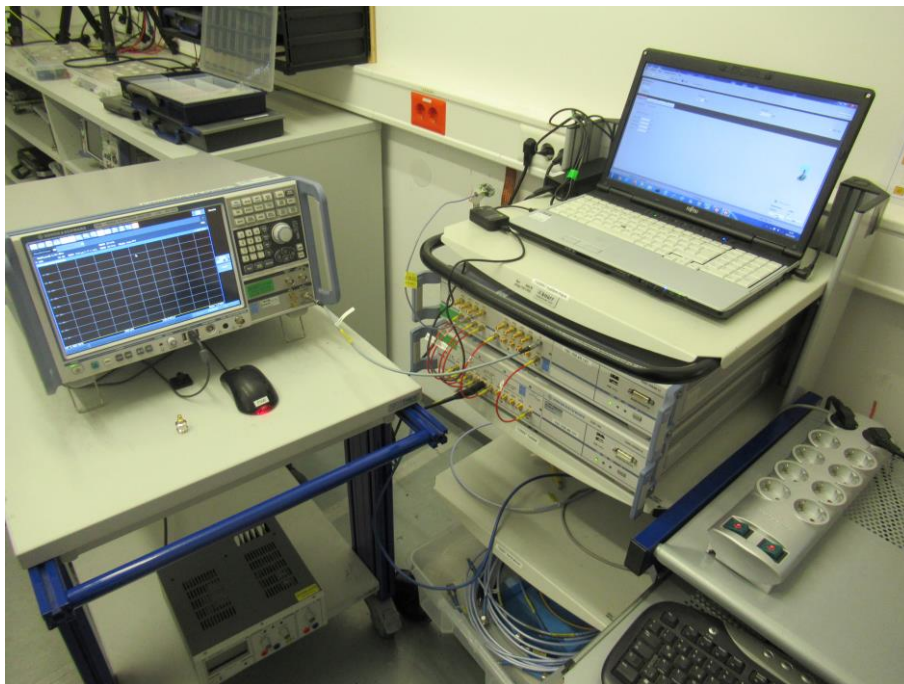
### 5.1 EBW and OBW

For test instruments and accessories used see section 6 Part **MB**.

#### 5.1.1 Description of the test location

Test location:                Shielded Room S6

#### 5.1.2 Photo documentation of the test set-up





### 5.1.3 Applicable standard

According to FCC Part 15, Section 15.247(a)(2):

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 – 2483.5 MHz and 5725 – 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.1.4 Description of Measurement

The bandwidth was measured at an amplitude level reduced from the reference level of a modulated channel by a ratio of -6 dB. The reference level is the level of the highest signal amplitude observed at the transmitter at either the fundamental frequency or the first order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical. An alternative is to use the bandwidth measurement of the analyser.

Spectrum analyser settings for EBW:

RBW: 100 kHz, VBW: 300 kHz, Detector: Max peak, Sweep time: 5 s, Span: 2 EBW;

Spectrum analyser settings for OBW:

RBW: 1-5% OBW, VBW: 3 RBW, Detector: Max peak, Sweep time: 5 s, Span: 2 OBW;

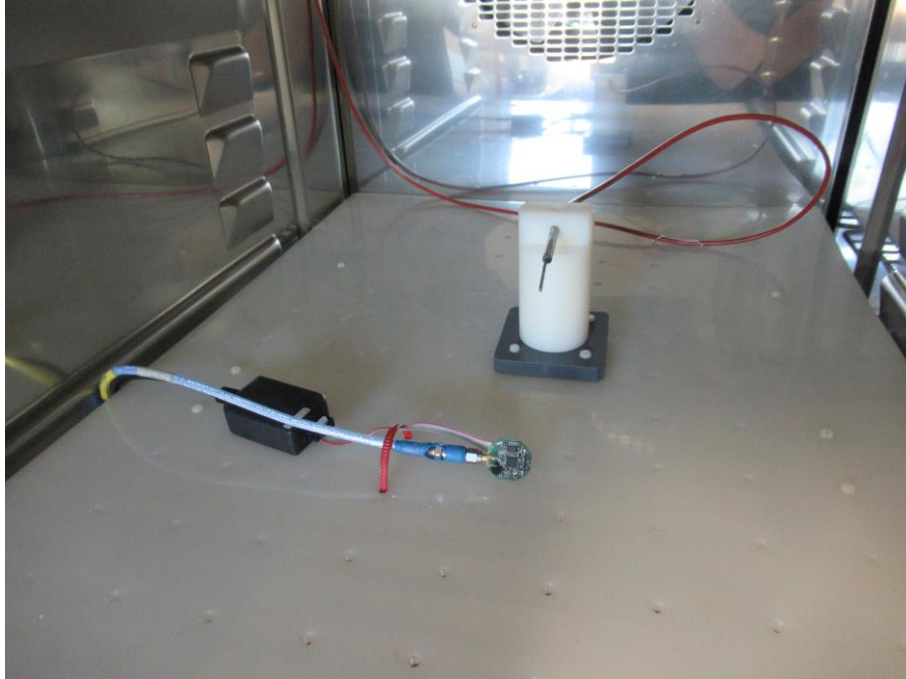
### 5.1.5 Test result

6 dB Bandwidth

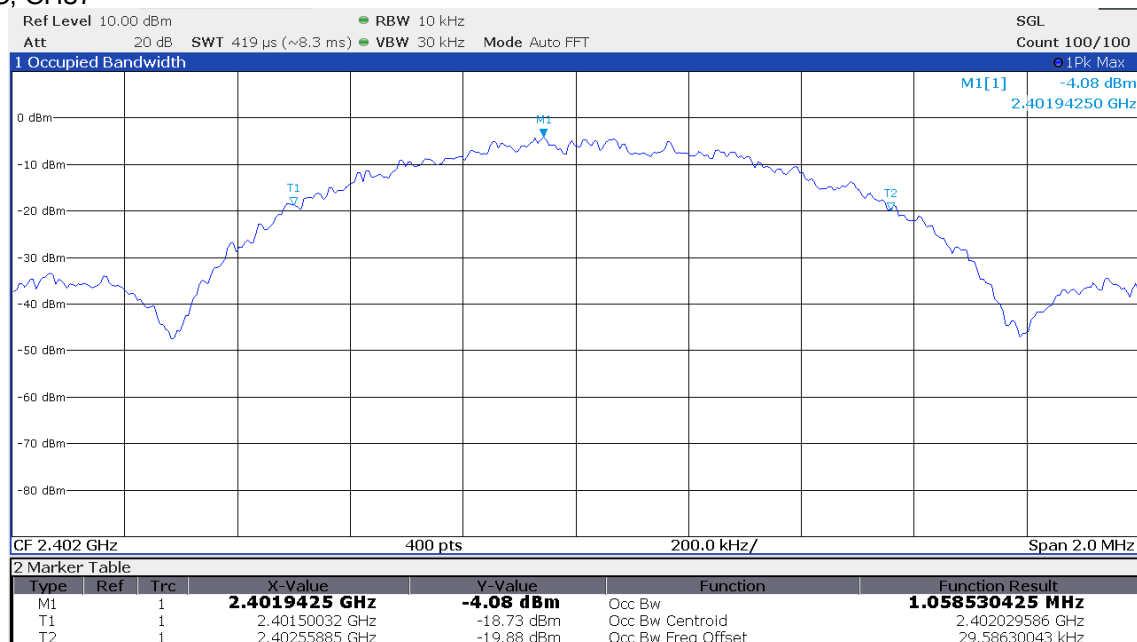
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|--------|
| 2402.000000         | 0.772278        | 0.500000        | ---             | 2401.623762          | 2402.396040           | 1.6             | PASS   |
| 2440.000000         | 0.772278        | 0.500000        | ---             | 2439.623762          | 2440.396040           | 1.4             | PASS   |
| 2480.000000         | 0.772278        | 0.500000        | ---             | 2479.623762          | 2480.396040           | 0.6             | PASS   |

### 5.1.8 Transmitter frequency stability

The tests were performed in a climatic chamber:



T = -20°C, CH37



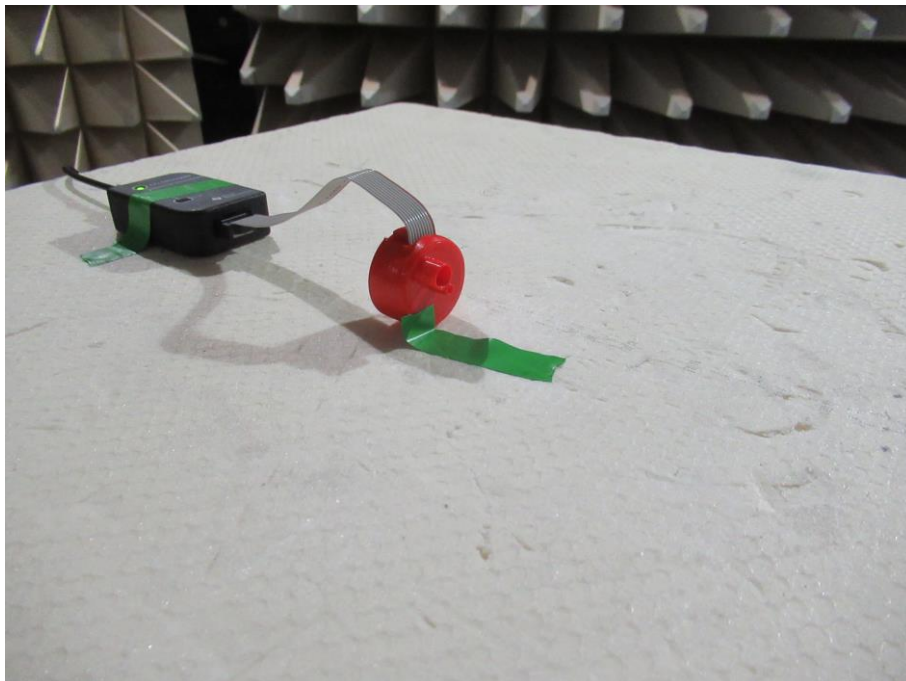
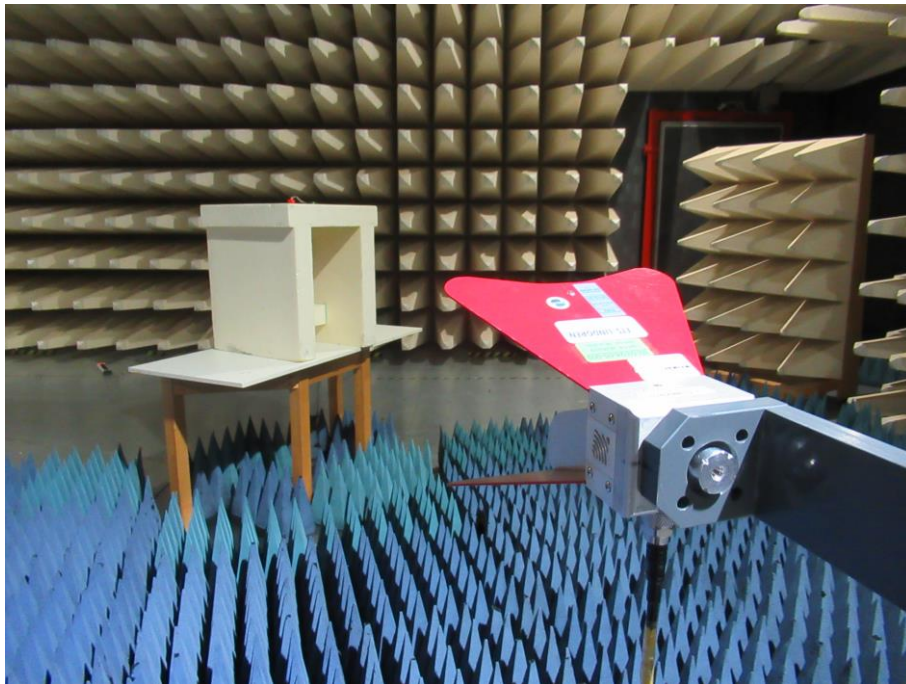
## 5.2 Maximum peak radiated output power

For test instruments and accessories used see section 6 Part CPR 3.

### 5.2.1 Description of the test location

Test location: Anechoic chamber 1

### 5.2.2 Photo documentation of the test set-up



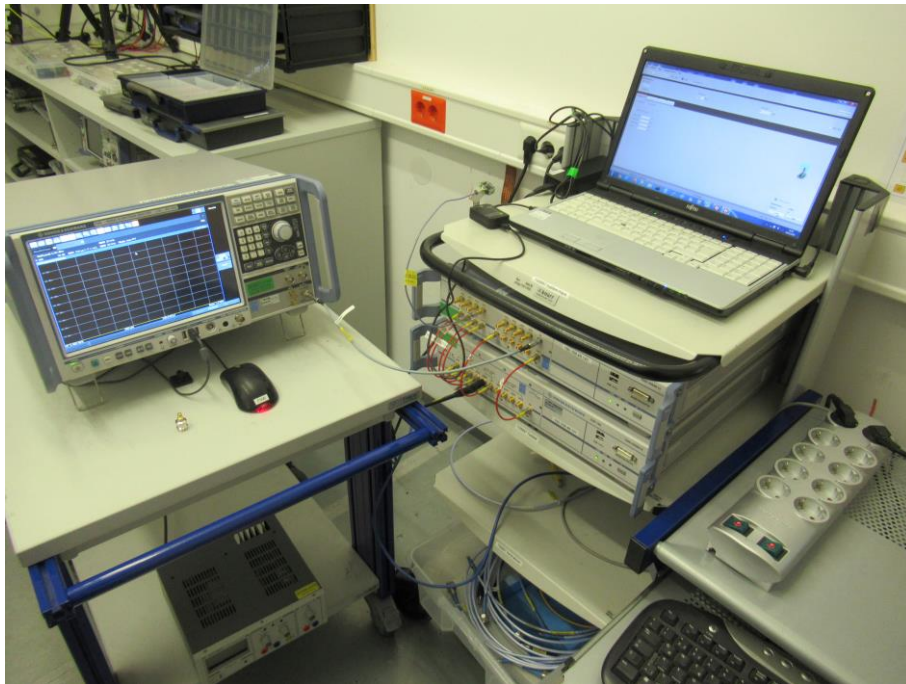
### 5.3 Power spectral density

For test instruments and accessories used see section 6 Part MB.

#### 5.3.1 Description of the test location

Test location:                Shielded Room S6

#### 5.3.2 Photo documentation of the test set-up



## **5.4 Radiated emissions in restricted bands**

For test instruments and accessories used see section 6 Part **SER 2**, **SER 3**.

### **5.4.1 Description of the test location**

Test location: OATS 1  
Test location: Anechoic chamber 1  
Test distance: 3 m

### **5.4.2 Photo documentation of the test set-up**

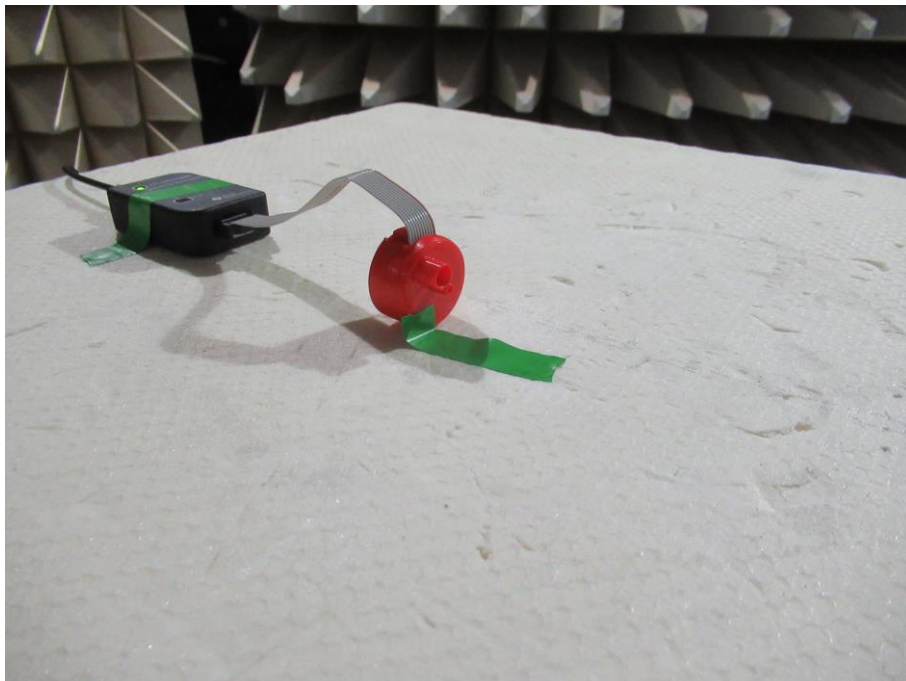
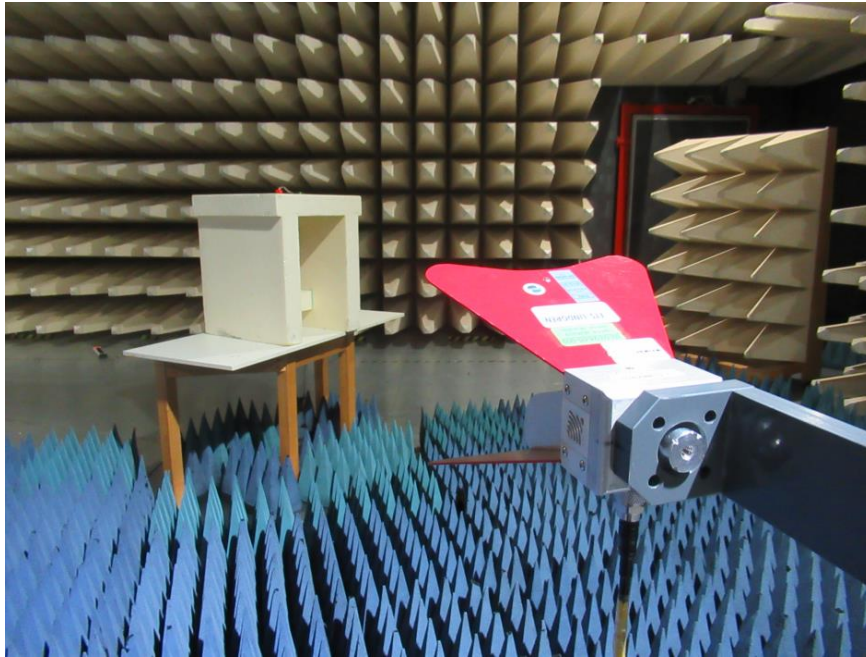
Open area test site

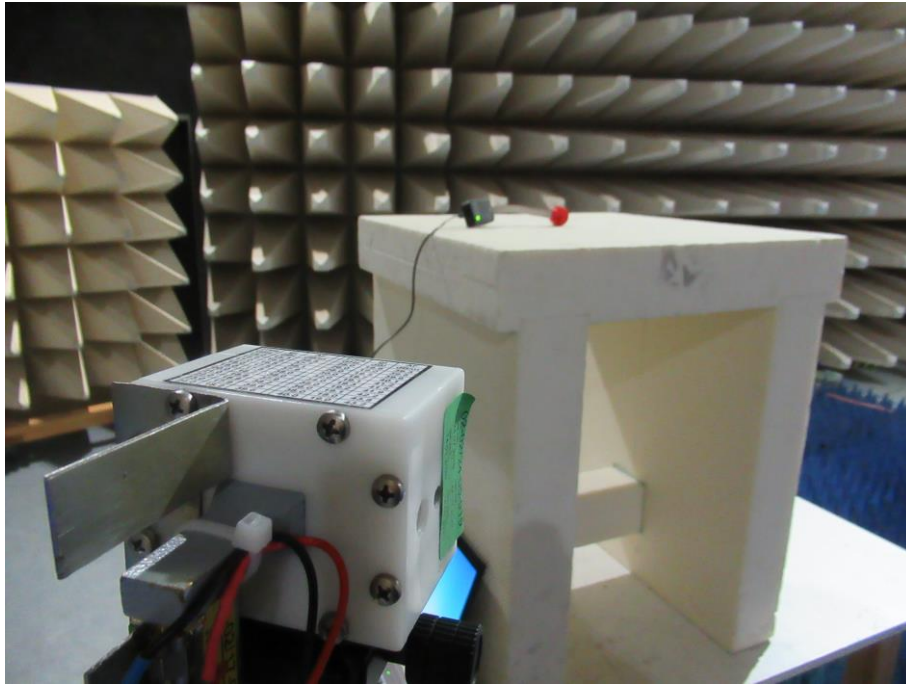


Anechoic chamber

FCC ID: 2ADQTV1EL

IC: 12568A-V1EL





According to FCC Part 15, Section 15.205(a):

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limit specified in Section 15.209(a).

## 5.6 Antenna application

For test instruments and accessories used see section 6 Part **CPC3**.

### 5.6.1 Description of the test location

Test location:                Shielded room S6

### 5.6.2 Photo documentation of the test set-up

