

Annex 4: Set-up photographs to  
to TEST REPORT  
No.: 16-1-0180701T09a

According to:

**FCC Regulations**








Part 15.205  
Part 15.207  
Part 15.209  
Part 15.247

for

Viessmann Werke GmbH & Co. KG

**ViCare Thermostat**

FCC ID: 2AIZ9-VT0318

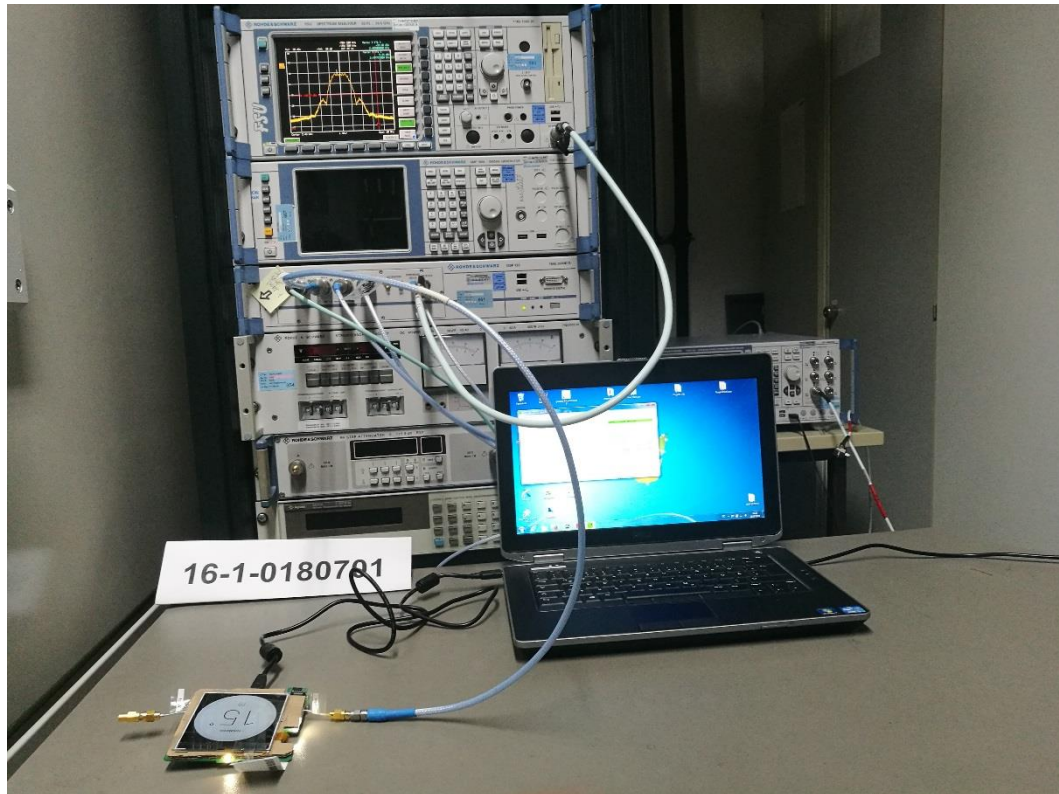
Laboratory Accreditation and Listings		
 Deutsche Akkreditierungsstelle D-PL-12047-01-01  Accredited EMC-Test Laboratory	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions  Reg. No.: R-20013, C-20009, T-20006, G-20013
 	 Lab Code: 20011130-00	 MRA US-EU 0003
accredited according to DIN EN ISO/IEC 17025		
<p align="center"> <b>CETECOM GmbH</b>            Laboratory Radio Communications &amp; Electromagnetic Compatibility            Im Teelbruch 116 • 45219 Essen • Germany            Registered in Essen, Germany, Reg. No.: HRB Essen 8984            Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964            E-mail: info@cetecom.com • Internet: www.cetecom.com         </p>		

## TABLE OF CONTENTS:

<b>1. CONDUCTED RF-MEASUREMENTS SET-UP .....</b>	<b>3</b>
1.1. Conducted Measurements-RF Power (RMS)+ Duty Cycle + PSD + 6 dB BW .....	3
1.2. Conducted Measurements-RF Power(Peak) + 20 dBc + 99% OBW .....	4
<b>2. RADIATED RF-MEASUREMENTS SET-UP.....</b>	<b>5</b>
2.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz .....	5
2.2. Radiated Field Strength Emissions - 30 MHz to 1 GHz .....	7
2.3. Radiated Field Strength Emissions – Above 1 GHz .....	9
<b>3. AC POWER LINES CONDUCTED EMISSIONS .....</b>	<b>11</b>
3.1. AC/DC Adapter Power Lines Conducted Emissions .....	11

## 1. Conducted RF-Measurements Set-up

### 1.1. Conducted Measurements-RF Power (RMS)+ Duty Cycle + PSD + 6 dB BW

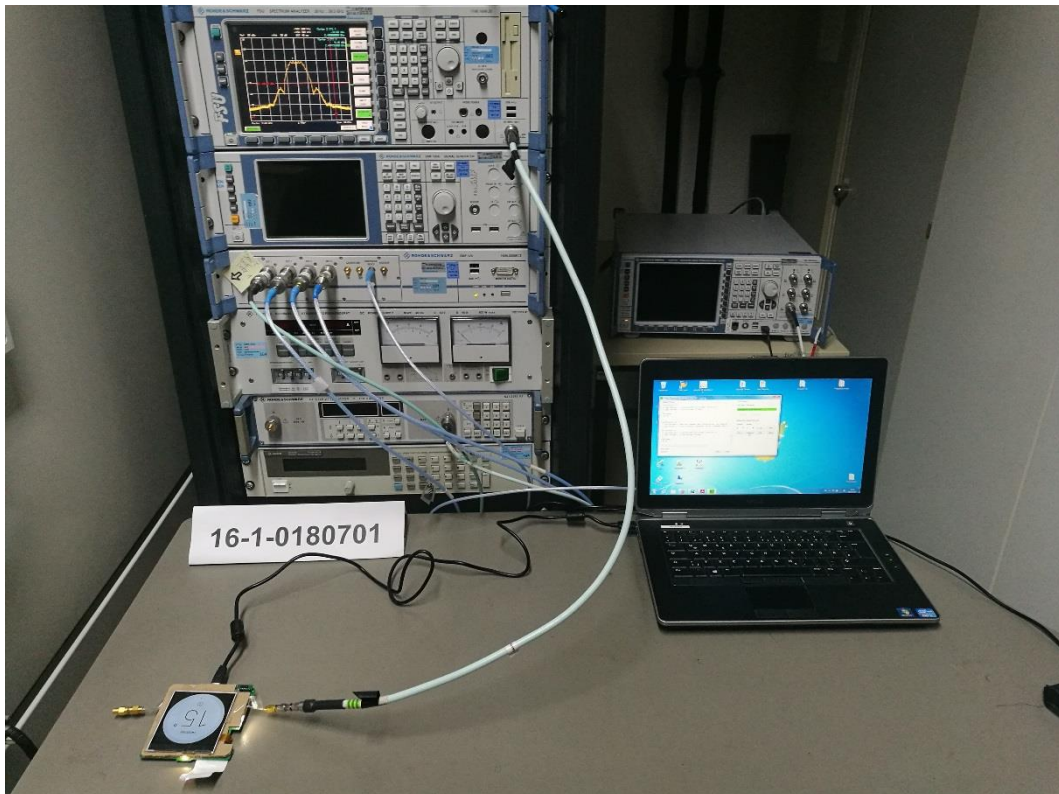


**Photograph 1: Set Up 1-Overall View –ZigBee 2.4 GHz Tests- RF Power + Duty Cycle+ PSD + 6 dB BW**



**Photograph 2: Set Up 1-Close View - ZigBee 2.4 GHz Tests- RF Power + Duty Cycle+ PSD + 6 dB BW**

**1.2. Conducted Measurements-RF Power(Peak) + 20 dBc + 99% OBW**



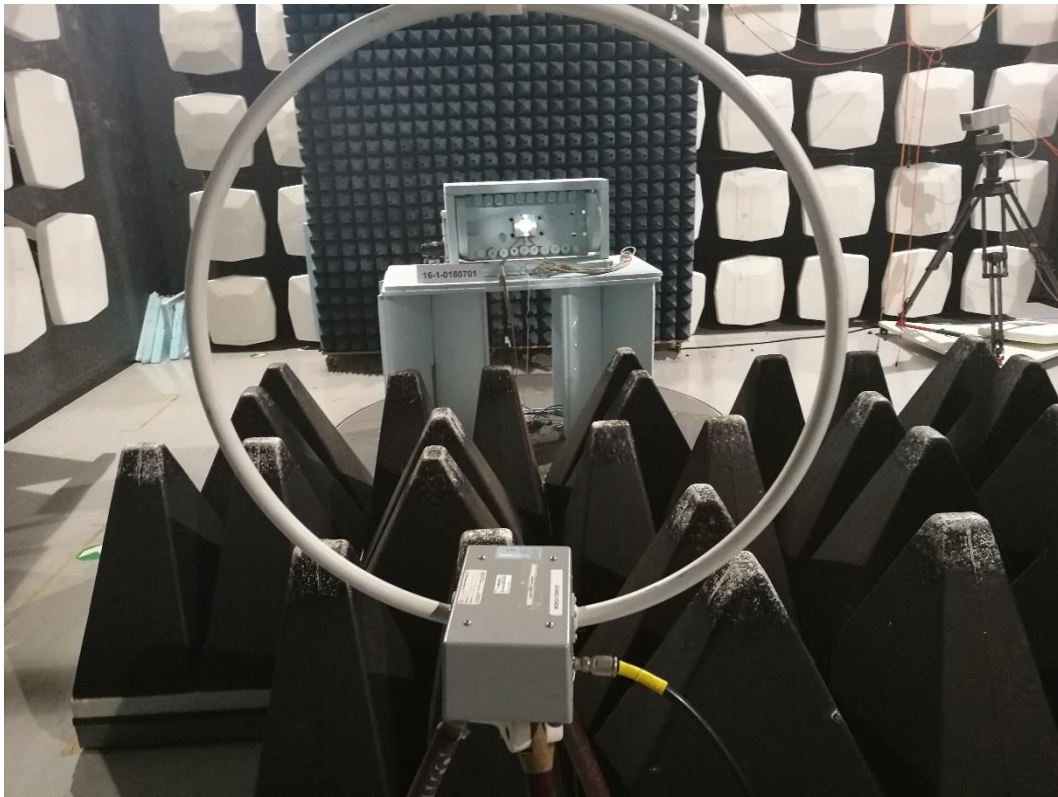
**Photograph 3: Set Up 1-Overall View - ZigBee 2.4 GHz Tests RF Power + 20 dBc+ 99% OBW**



**Photograph 4: Set Up 1-Close View - ZigBee 2.4 GHz Tests-RF Power + 20 dBc+ 99% OBW**

## 2. Radiated RF-Measurements Set-up

### 2.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz



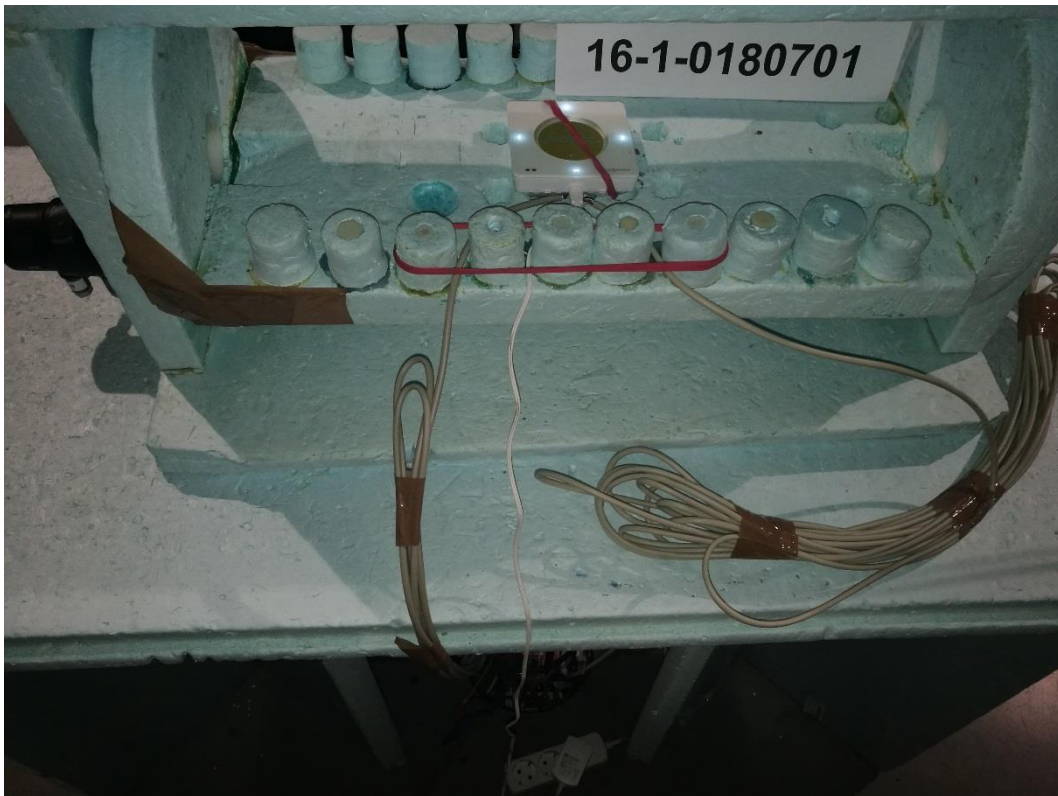
**Photograph 5: Set Up 2-Overall View- 9 kHz-30 MHz- EUT Laying 90° - Front Side**



**Photograph 6: Set Up 2-Overall View- 9 kHz-30 MHz- EUT Laying 0° - Front Side**

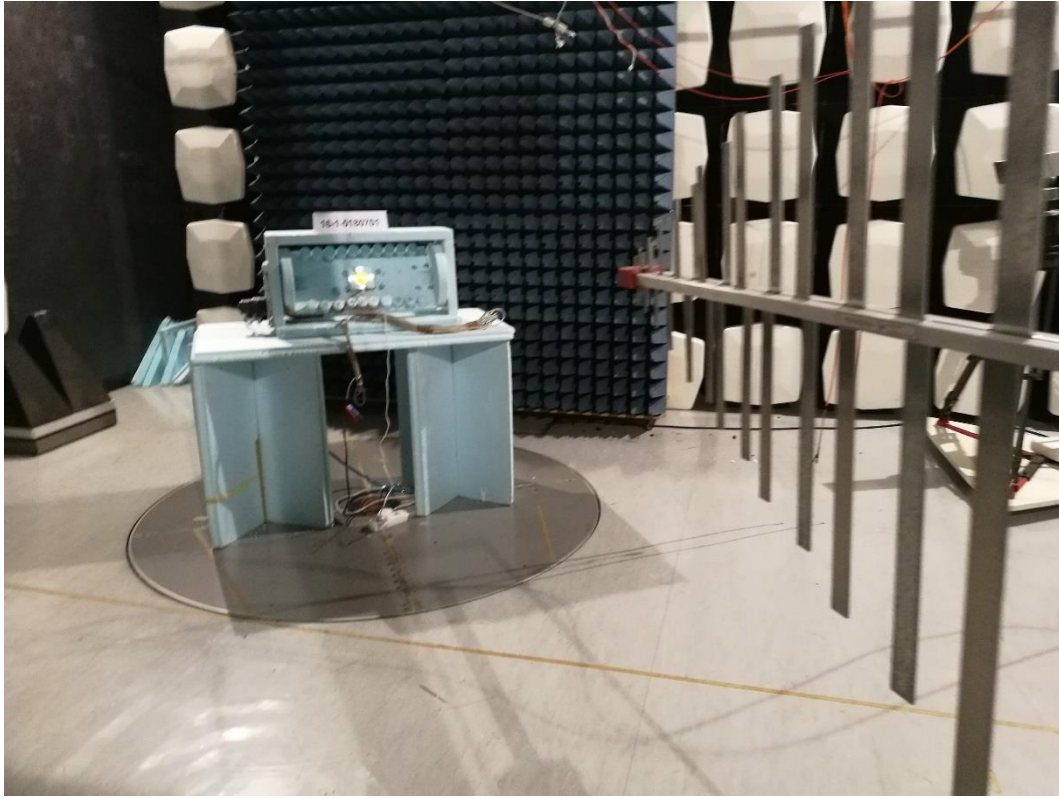


**Photograph 7: Set Up 2-Close View -9 kHz-30 MHz- EUT Laying 90°- Front Side**

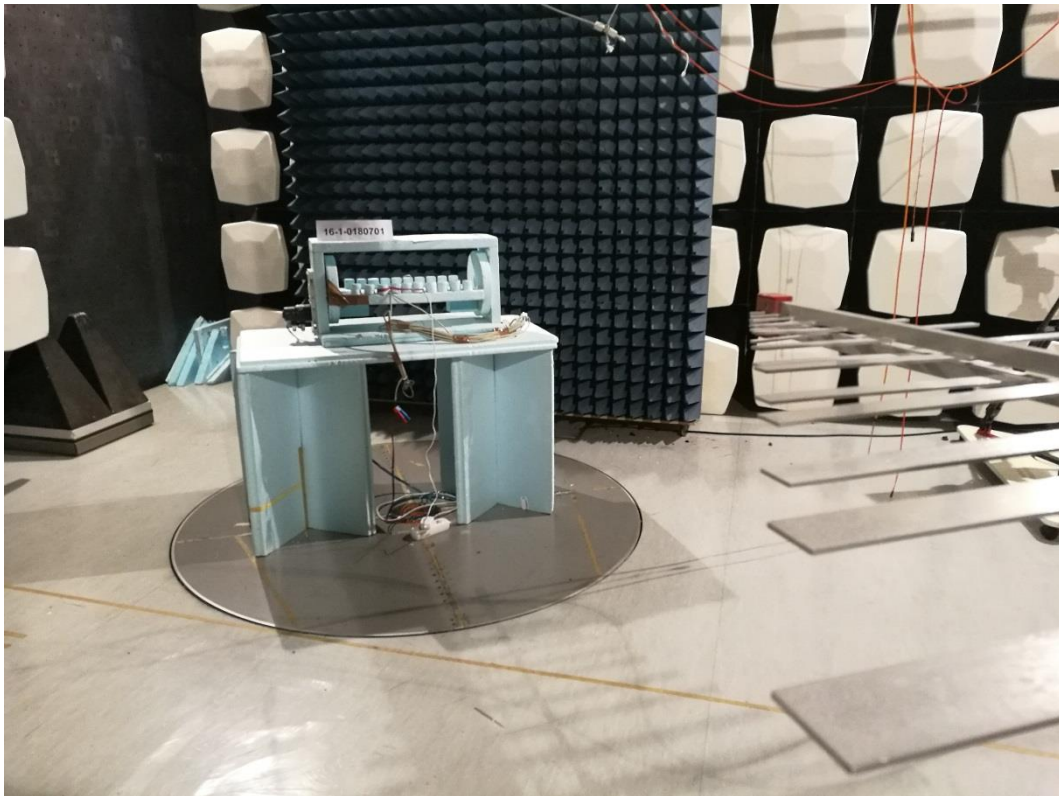


**Photograph 8: Set Up 2-Close View -9 kHz-30 MHz- EUT Laying 0°- Front Side**

## 2.2. Radiated Field Strength Emissions - 30 MHz to 1 GHz



**Photograph 9: Set Up 2-Overall View-30 MHz-1 GHz - EUT Laying 90° - Front Side**



**Photograph 10: Set Up 2-Overall View - 30 MHz-1 GHz - EUT Laying 0° - Front Side**

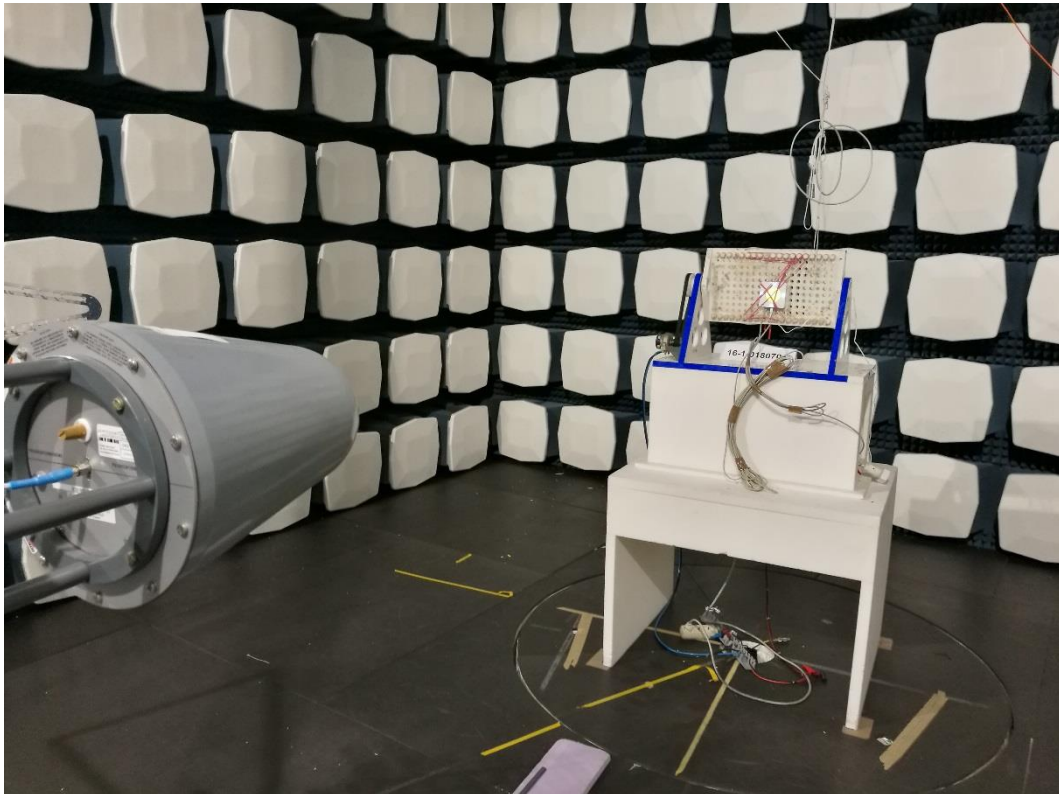


**Photograph 11: Set Up 2-Close View - 30 MHz-1 GHz - EUT Standing 90° - Front Side**

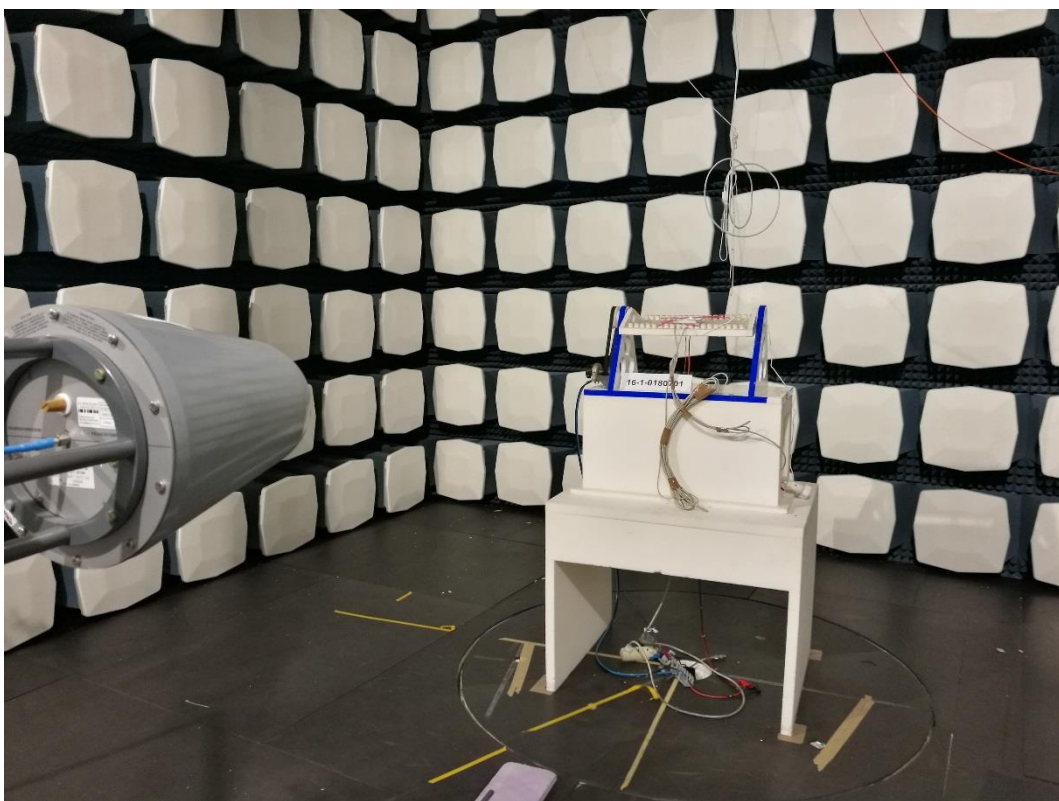


**Photograph 12: Set Up 2-Close View - 30 MHz-1 GHz - EUT Standing 0° - Front Side**

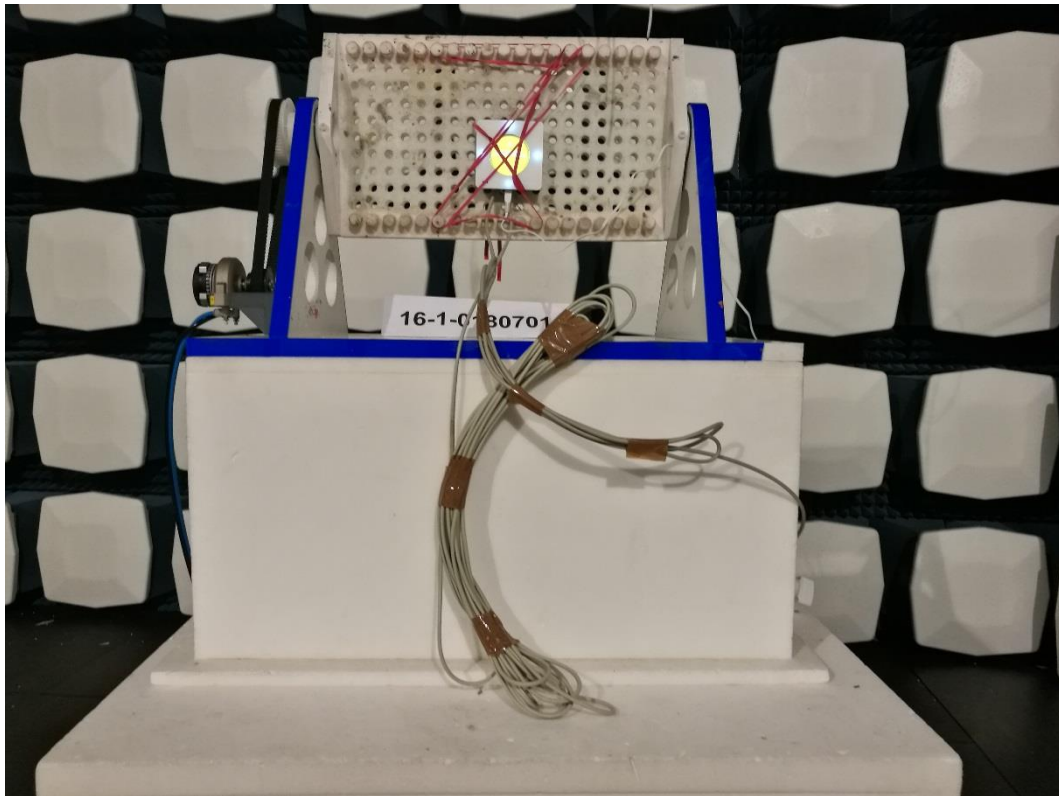


**2.3. Radiated Field Strength Emissions – Above 1 GHz**

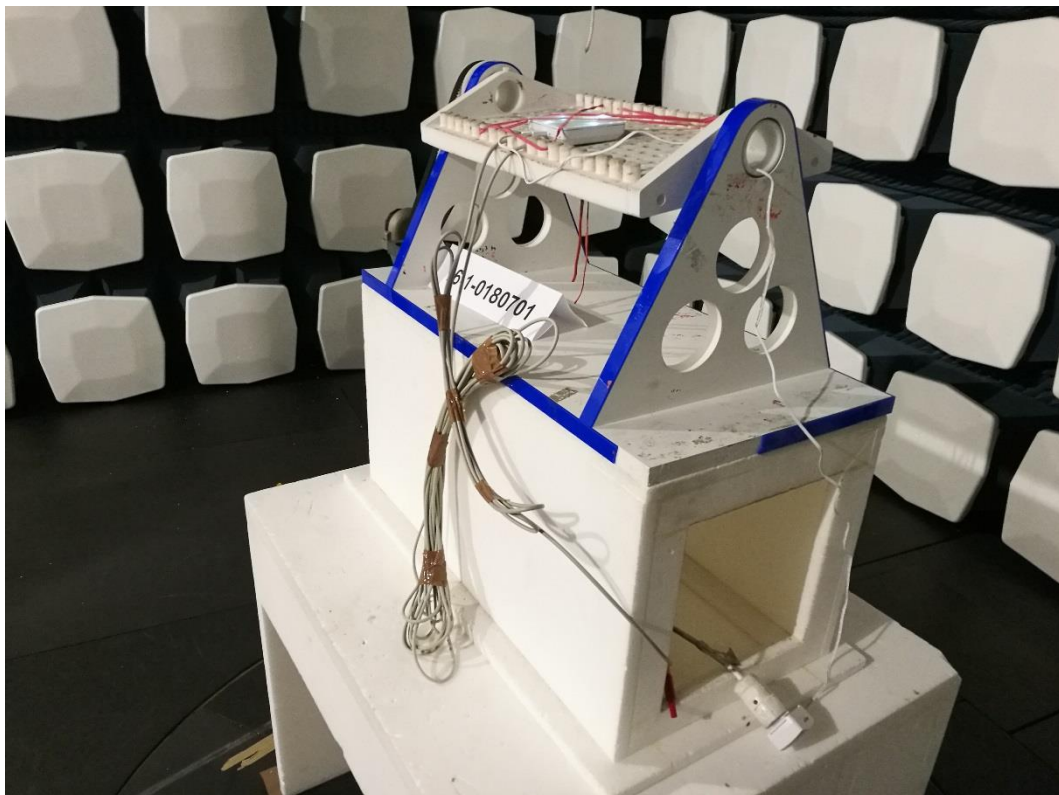
**Photograph 13: Set Up 2-Overall View - above 1 GHz- EUT Standing 90°- Front Side**



**Photograph 14: Set Up 2-Overall View - above 1 GHz - EUT Standing 0°- Front Side**



**Photograph 15: Set Up 2-Close View - above 1 GHz - EUT Standing 90° - Front Side**



**Photograph 16: Set Up 2-Close View - above 1 GHz - EUT Standing 0° - Front Side**

### 3. AC Power Lines Conducted Emissions

#### 3.1. AC/DC Adapter Power Lines Conducted Emissions



Photograph 17: Set Up 2-Overall View - ZigBee 2.4 GHz Tests- AC-Power Lines Emissions



Photograph 18: Set Up 2-Close View - ZigBee 2.4 GHz Tests- AC-Power Lines Emissions