

Annex 1: Measurement diagrams to  
**TEST REPORT**  
No.: 19-1-0142201T09a

According to:  
**FCC Regulations Title 47, Part 15**  
**Subpart B (Unintentional radiators)**  
§15.109

**ISED-Regulations**  
ICES-003, Issue 6

for

**GROHE AG**

**Rainshower 310 SmartConnect (26646)**  
**Remote Control**

FCC ID: WFK-RCBT001  
IC ID: 7787A-RCBT001

**Laboratory Accreditation and Listings**



Accredited EMC-Test Laboratory

accredited according to DIN EN ISO/IEC 17025:2018

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## 1. Measurement diagrams of emission test

### 1.1. Diagrams of radiated field strength emissions, 30 MHz - 1 GHz (Diagram group 03)

#### 3.01a

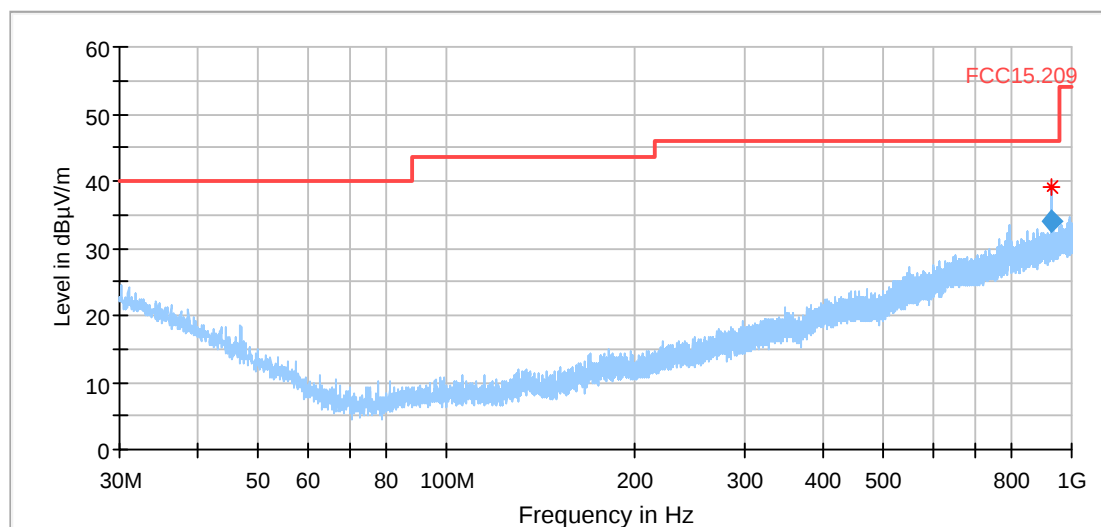
#### Common Information

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Test Description:         | Electric Fieldstrength Measurement                         |
| Test Spec.:               | EN 55022B: 3m meas. distance in the anechoic room          |
| Antenna:                  | receiving antenna is directed to all sides, h=1.55m height |
| Operating Mode:           | BT                                                         |
| Environmental Conditions: | Humidity : 40% rH; Temperature: 20° C                      |
| Operator:                 | LKu                                                        |
| Verdict:                  | Passed                                                     |

#### EUT Information

|                |                                     |
|----------------|-------------------------------------|
| PMT number:    | 19-1-01422S31                       |
| Manufacturer:  | Grohe AG                            |
| Product:       | Rainshower 310 SmartConnect (26646) |
| Model:         | Remote Control                      |
| HW version:    | GH_RC-1V3                           |
| SW version:    | n/a                                 |
| Serial number: | 0Z051-4119-00137-21                 |
| Power Supply:  | 3 V Battery                         |

Full Spectrum



#### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|--------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 927.174000      | 33.88              | 46.00          | 12.12  | 1000.0          | 120.000         | 257.0       | H   | 207.0         | 27.0         |

(continuation of the "Final\_Result" table from column 16 ...)

| Frequency (MHz) | Comment               |
|-----------------|-----------------------|
| 927.174000      | 15:20:00 - 31.01.2020 |

### 3.01\_standing

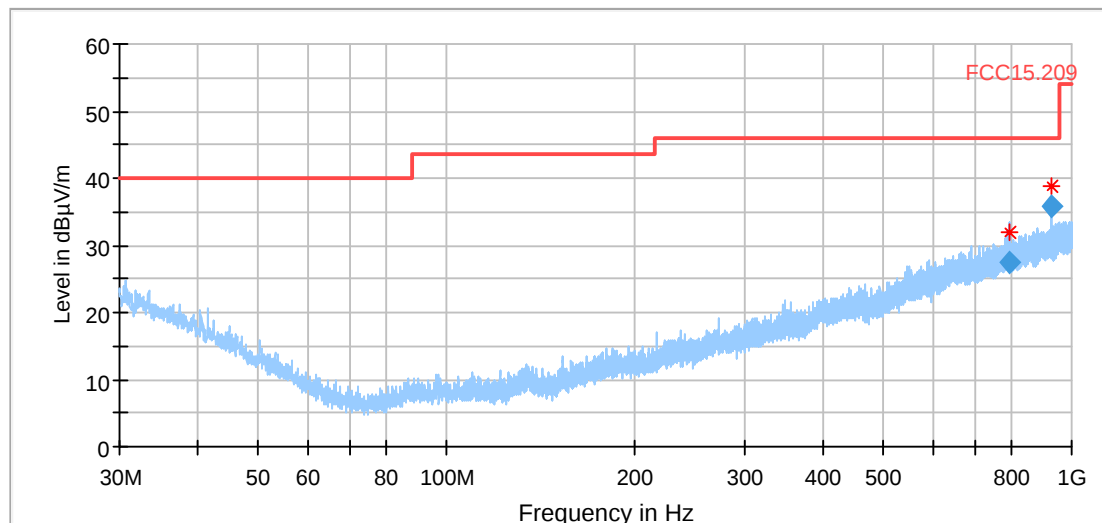
#### Common Information

Test Description: Electric Fieldstrength Measurement  
 Test Spec.: EN 55022B: 3m meas. distance in the anechoic room  
 Antenna: receiving antenna is directed to all sides, h=1.55 m height  
 Operating Mode: BT  
 Environmental Conditions: Humidity : 40% rH; Temperature: 20° C  
 Operator: LKu  
 Verdict: Passed  
 Comment: Comment:  
 standing

#### EUT Information

PMT number: 19-1-01422S31  
 Manufacturer: Grohe AG  
 Product: Rainshower 310 SmartConnect (26646)  
 Model: Remote Control  
 HW version: GH\_RC-1V3  
 SW version: n/a  
 Serial number: 0Z051-4119-00137-21  
 Power Supply: 3 V Battery

Full Spectrum



#### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 792.824000      | 27.47              | 46.00          | 18.53       | 1000.0          | 120.000         | 253.0       | H   | 143.0         | 25.1         |
| 928.332000      | 35.76              | 46.00          | 10.24       | 1000.0          | 120.000         | 368.0       | H   | 172.0         | 27.0         |

(continuation of the "Final\_Result" table from column 16 ...)

| Frequency (MHz) | Comment               |
|-----------------|-----------------------|
| 792.824000      | 15:46:44 - 31.01.2020 |
| 928.332000      | 15:41:40 - 31.01.2020 |

## 1.2. Diagrams of radiated emission above 1 GHz (Diagram group 04)

### 4.01a

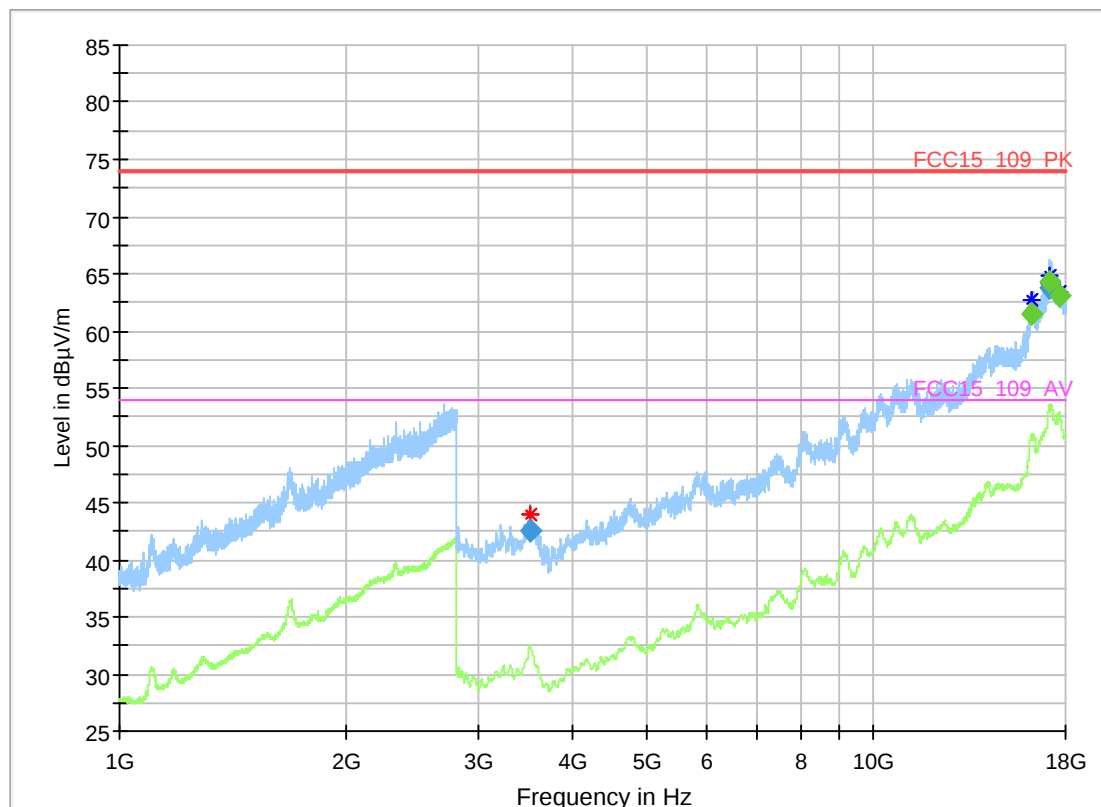
#### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance |
| Test Site:                | CETECOM GmbH Essen                              |
| Test Standard:            | FCC 15.109 Unintentional Radiator               |
| Antenna polarization:     | horizontal/vertical                             |
| Operating Mode:           | 15B                                             |
| Operator:                 | TFra                                            |
| Environmental Conditions: | Humidity : 40% rH; Temperature: 20° C           |
| EUT Setup:                |                                                 |
| Verdict:                  | Failed                                          |

#### EUT Information

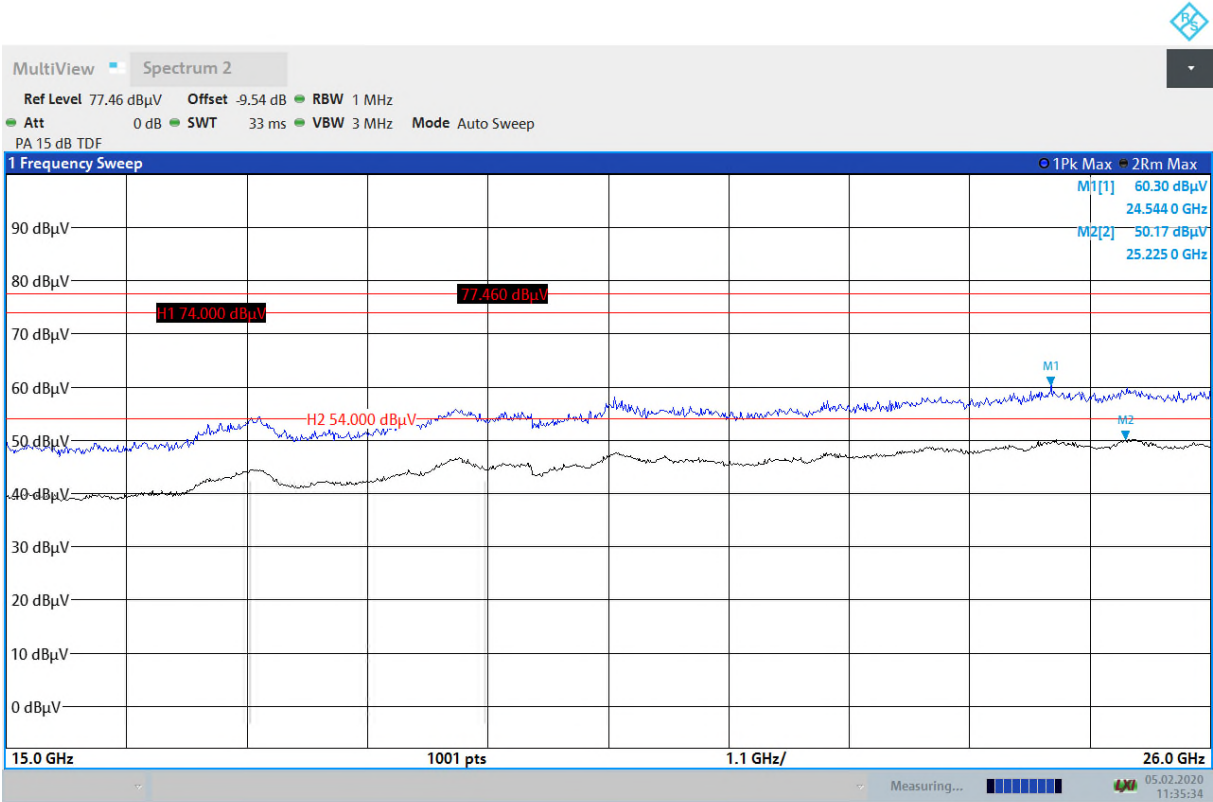
|               |                                     |
|---------------|-------------------------------------|
| PMT number:   | 19-1-01422S31                       |
| Manufacturer: | Grohe AG                            |
| Product:      | Rainshower 310 SmartConnect (26646) |
| Model:        | Remote Control                      |
| HW version:   | GH_RC-1V3                           |
| SW version:   | n/a                                 |

Full Spectrum



#### Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | RMS (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB/m) |
|-----------------|------------------|--------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|-----------------|--------------|
| 3499.426333     | 42.54            | ---          | 74.00          | 31.46       | 100.0           | 1000.000        | 155.0       | V   | 327.0         | 90.0            | 4            |
| 16243.91366     | ---              | 61.53        | 54.00          | -7.53       | 100.0           | 1000.000        | 155.0       | H   | 225.0         | 90.0            | 28           |
| 17111.77533     | 63.70            | ---          | 74.00          | 10.30       | 100.0           | 1000.000        | 155.0       | V   | 285.0         | 0.0             | 30           |
| 17186.06066     | ---              | 64.30        | 54.00          | -10.30      | 100.0           | 1000.000        | 155.0       | H   | 18.0          | 0.0             | 30           |
| 17648.67333     | ---              | 63.06        | 54.00          | -9.06       | 100.0           | 1000.000        | 155.0       | H   | -13.0         | 0.0             | 29           |



11:35:35 05.02.2020

Diagram No. 4.01b

END OF ANNEX