

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

CETECOM GmbH

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1. MEASUREMENT DIAGRAMS OF EMISSION TEST

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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

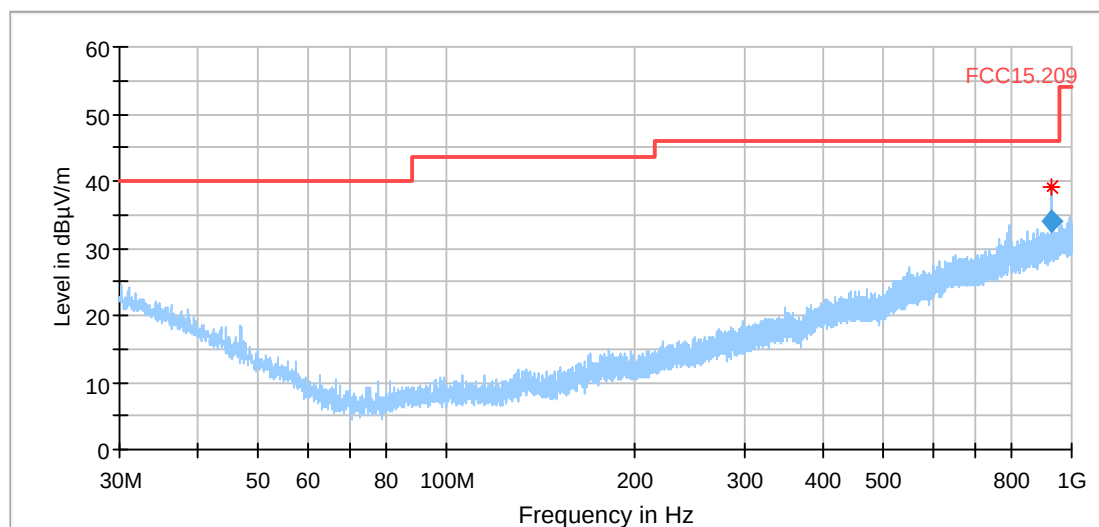
Common Information

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

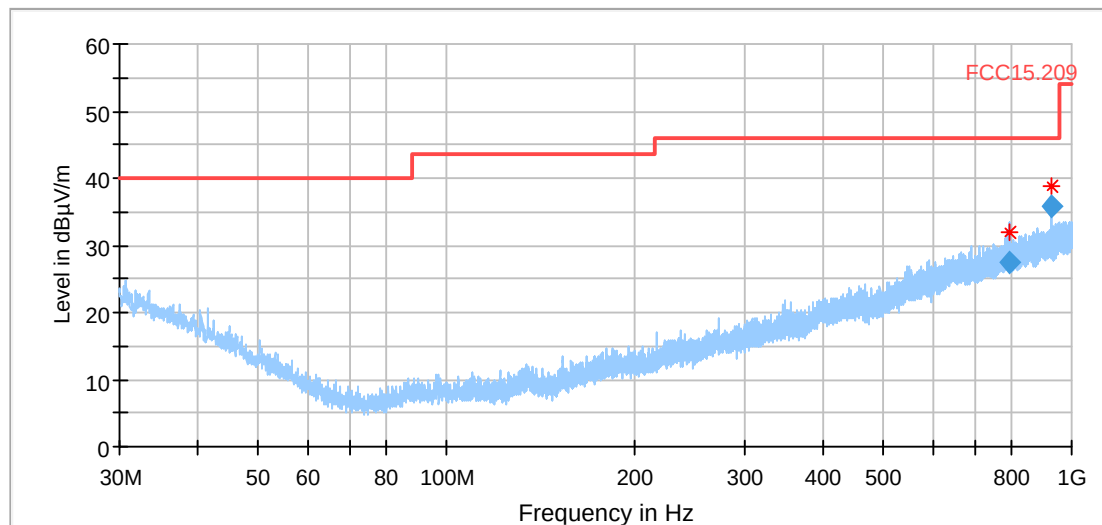
Common Information

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

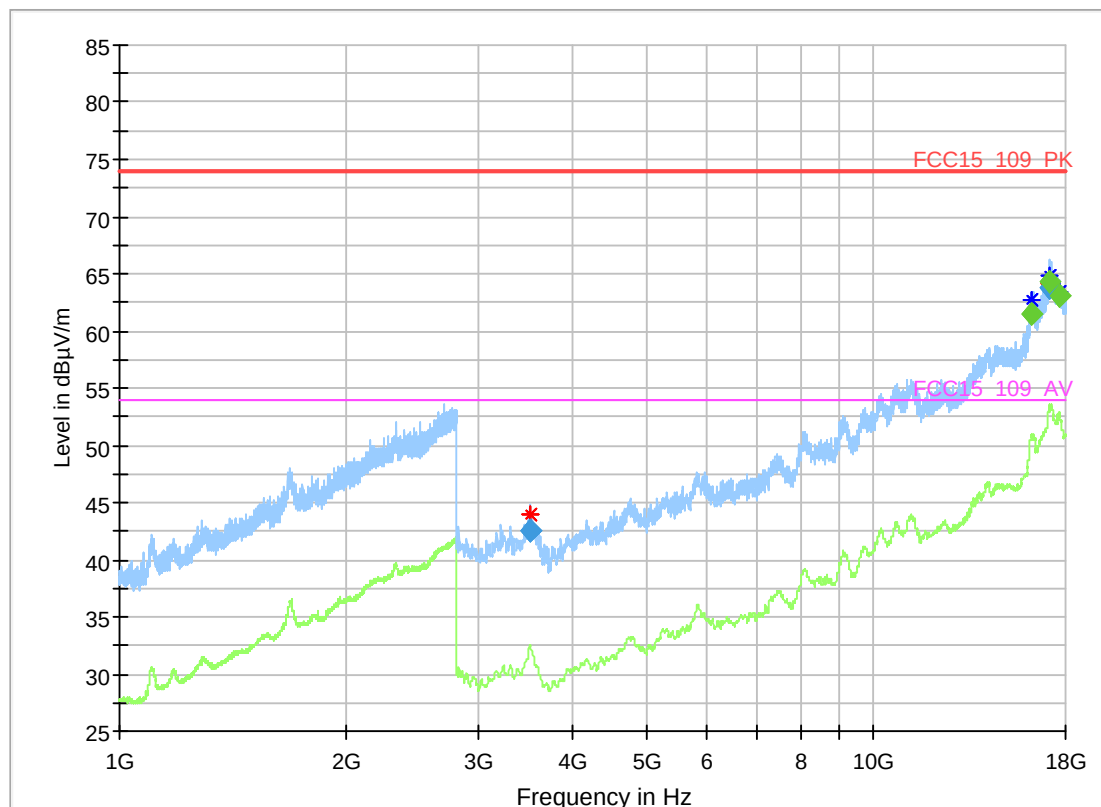
Common Information

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

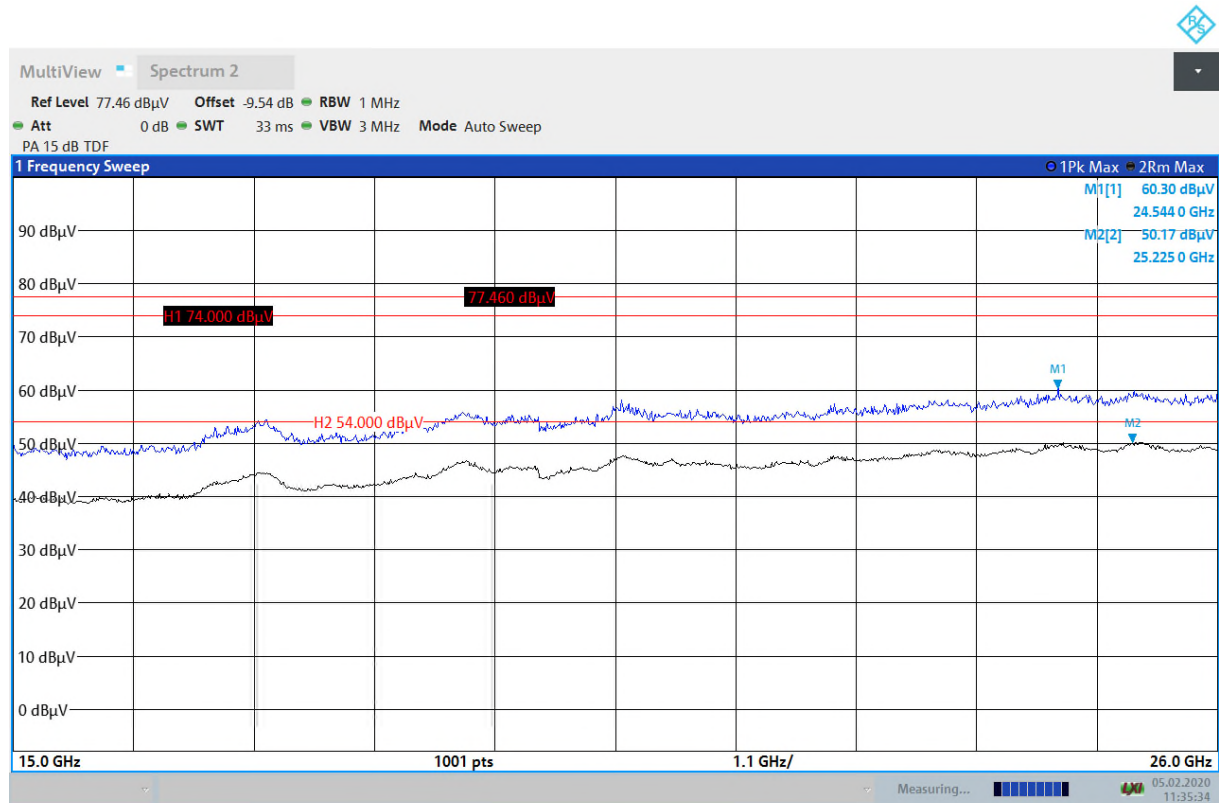
PMT number: 19-1-01422S31
 Manufacturer: Grohe AG
 Product: Rainshower 310 SmartConnect (26646)
 Model: Remote Control
 HW version: GH_RC-1V3
 SW version: n/a

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	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