



11.4 Occupied bandwidth (99% BW)

Test set-up and execution

- RSS 210 Annex 2 (A2.9)
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

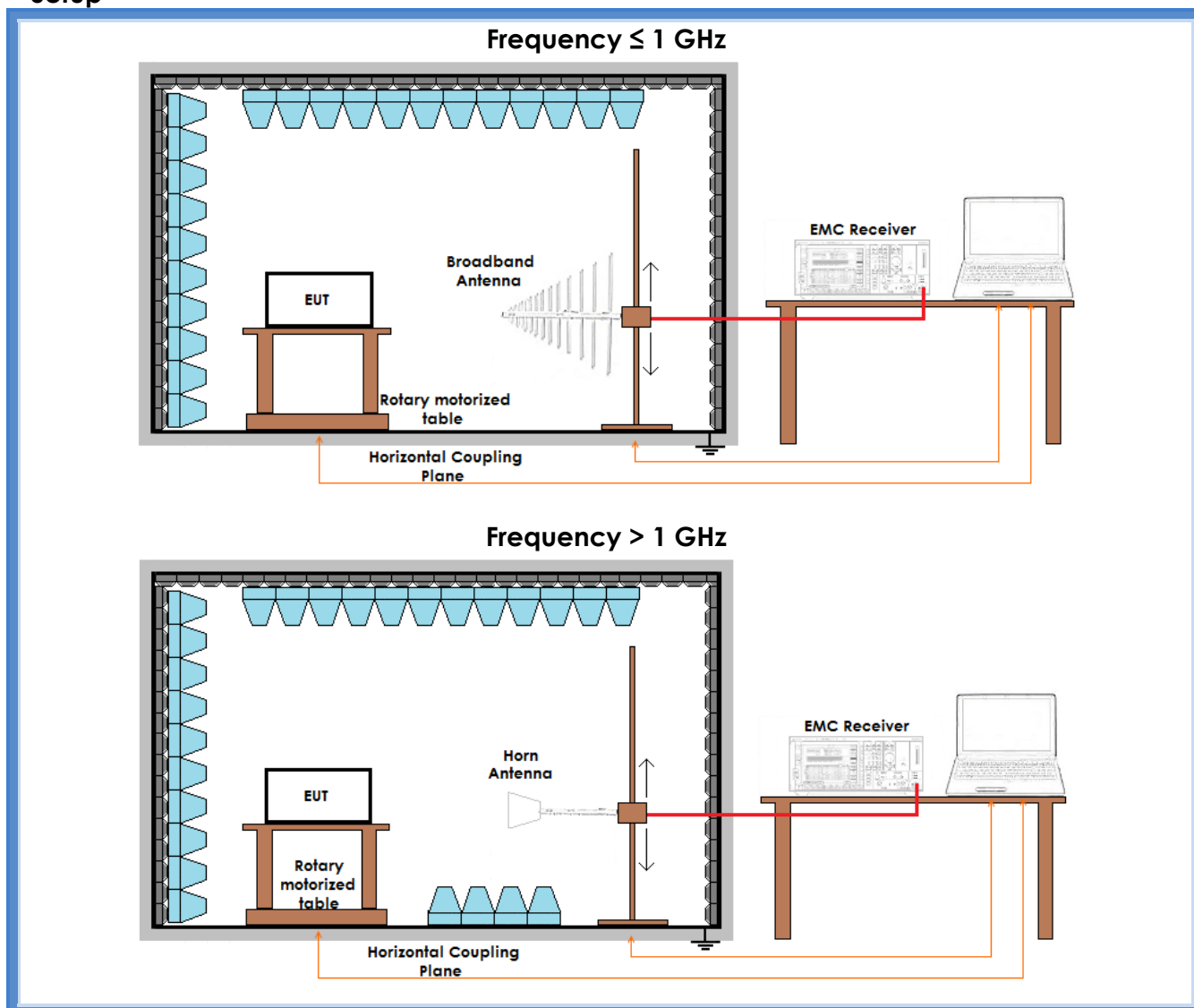
RSS 210 Annex 2 (A2.9)

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	99	51



Setup



Result

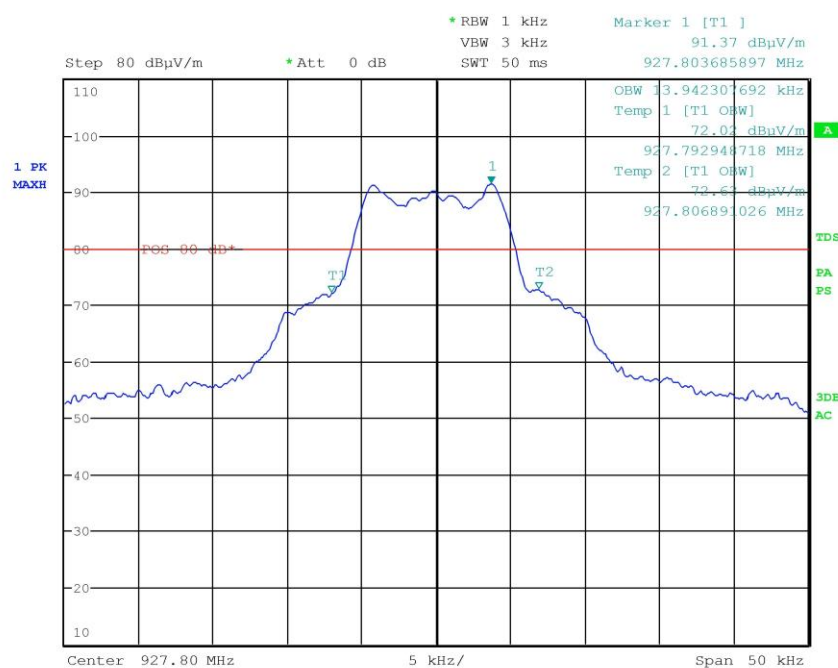
f (MHz)	99% bandwidth (kHz)	Graphs	Results
915,050	13,5	G14077324	Complies
921,000	13,5	G14077320	Complies
927,800	13,9	G14077318	Complies

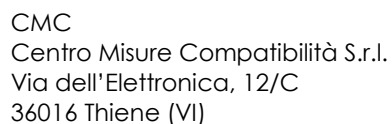


Graphs

G14077318

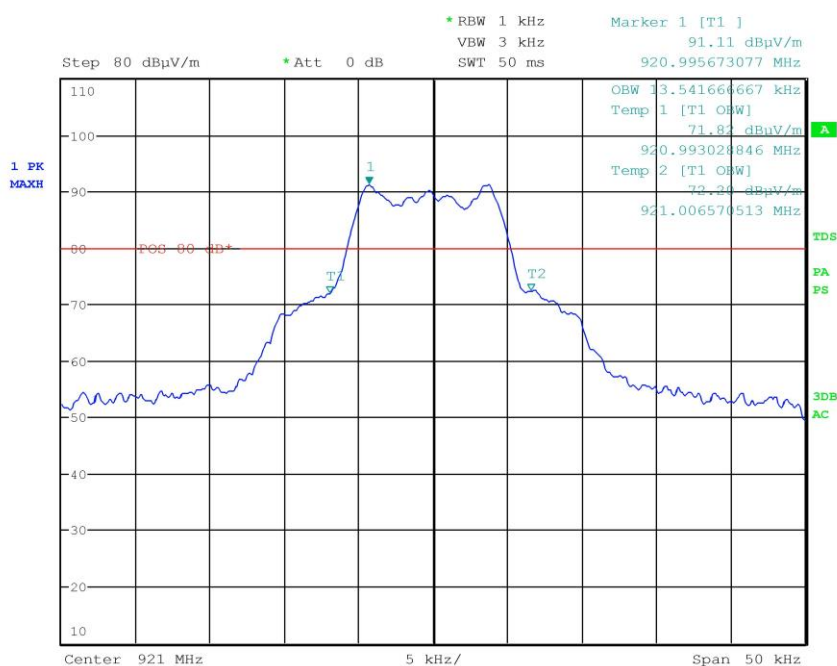
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmax
Operator Gandini 14077318
Test Spec
Horiz





G14077320

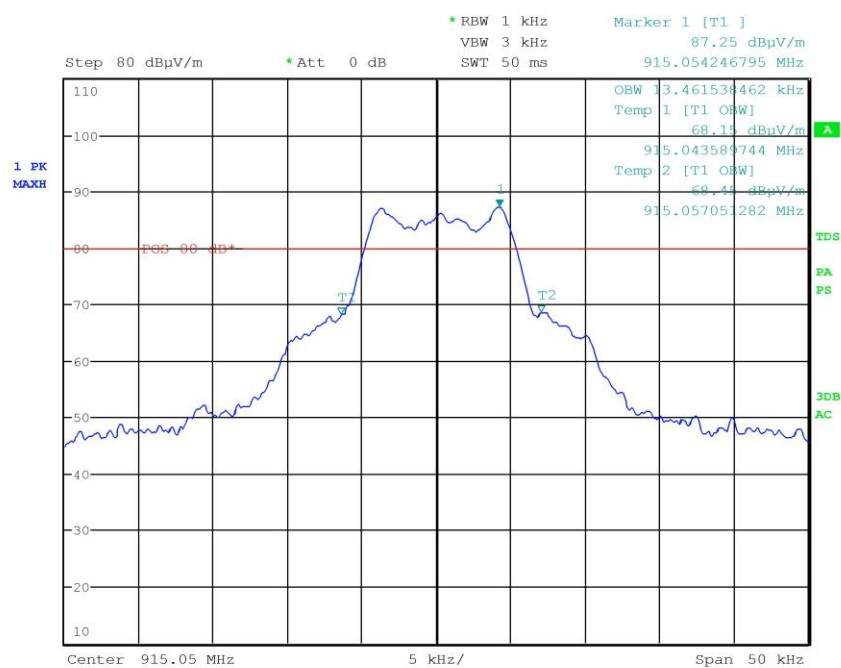
Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	Tx-Fmed
Operator	Gandini 14077320
Test Spec	
Horiz	





G14077324

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmin
Operator Gandini 14077324
Test Spec
Vert



Result: The requirements are met



11.5 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209 and Part 15.249
- RSS-210
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	98	50

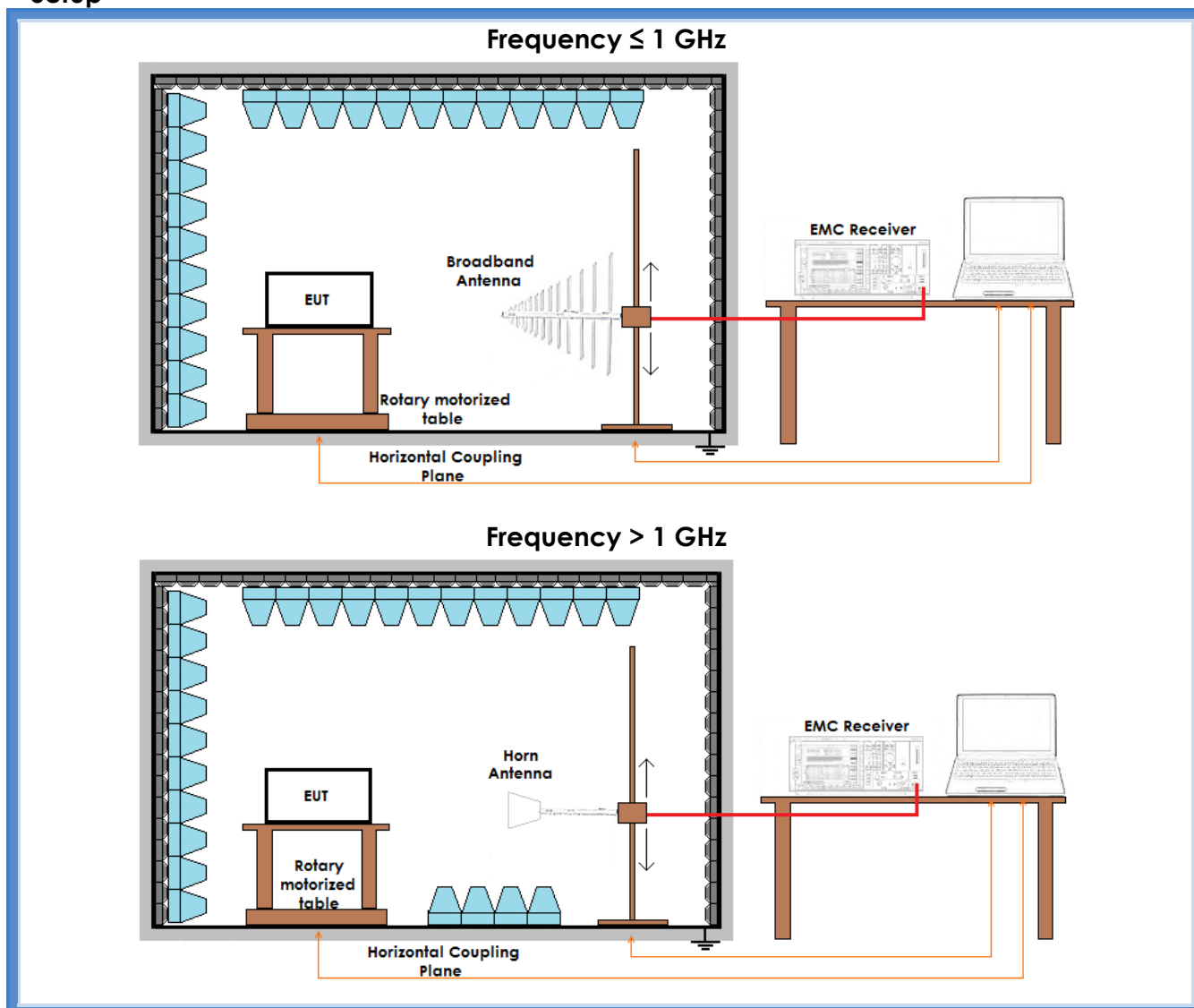
Acceptance limits

Frequency range (MHz)	RF Power Output dB(μV/m)
902 – 928	94

Frequency range (MHz)	RF Power Output dB(μV/m)
2400 – 2483,5	94



Setup



Result

Frequency (MHz)	Polarization	Graphs	Measured QP level (dB μ V/m)	Peak Output Power (mW)	Remarks
915,050	Horizontal	G14077325	91,31	0,41	--
915,050	Vertical	G14077322	88,18	0,20	--
921,000	Horizontal	G14077319	92,21	0,50	--
921,000	Vertical	G14077321	88,13	0,19	--
927,800	Horizontal	G14077316	92,23	0,50	--
927,800	Vertical	G14077312	89,11	0,24	--

Remarks

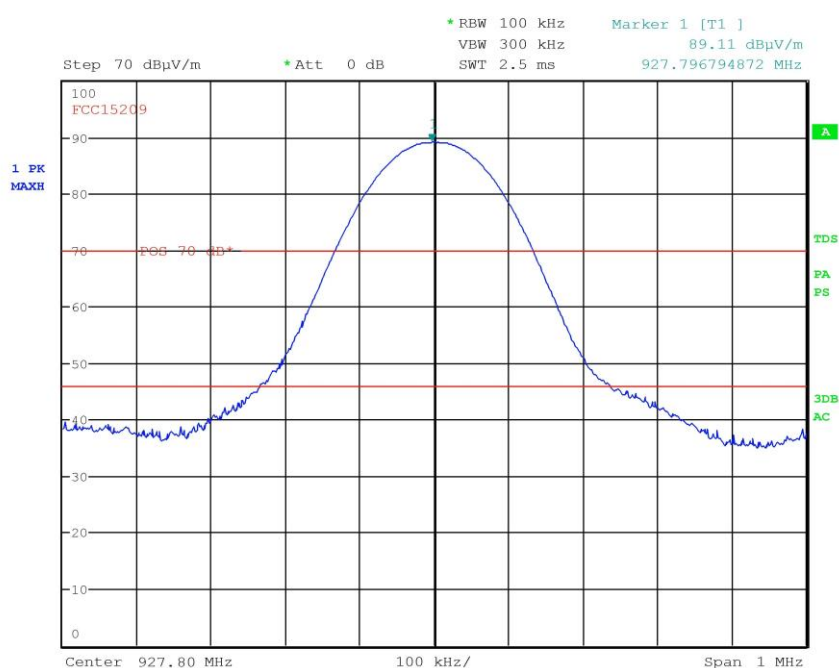
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Graphs

G14077312

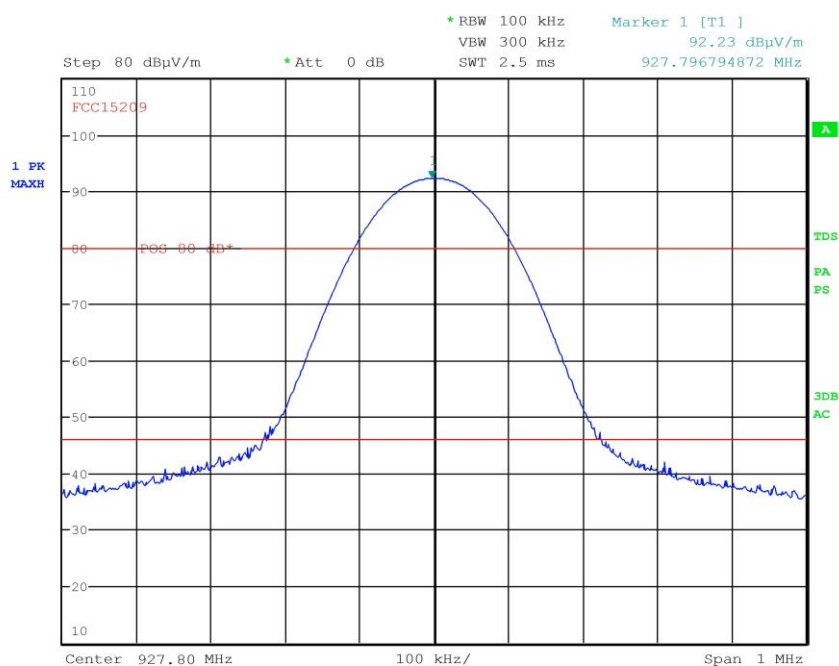
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmax
Operator Gandini 14077312
Test Spec
Vetr





G14077316

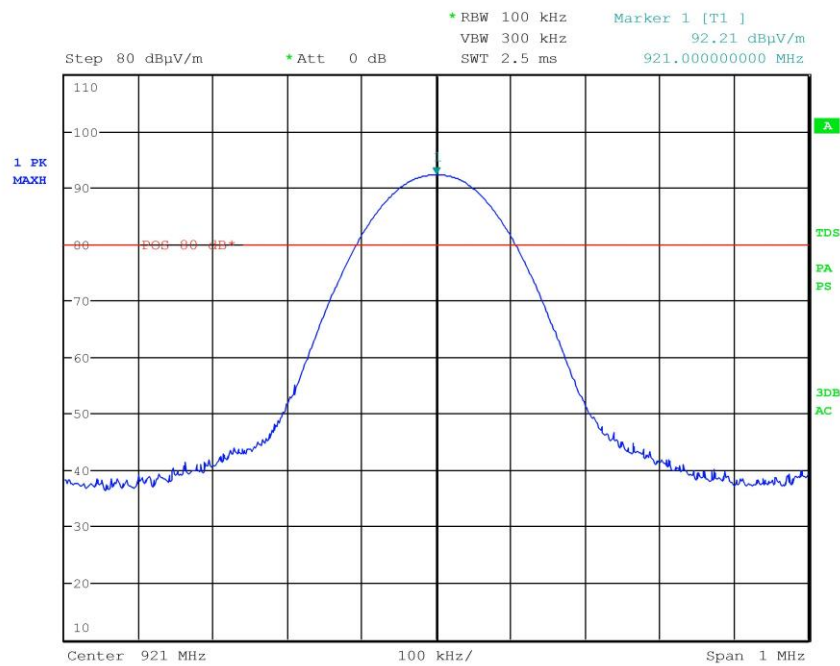
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmax
Operator Gandini 14077316
Test Spec
Horiz





G14077319

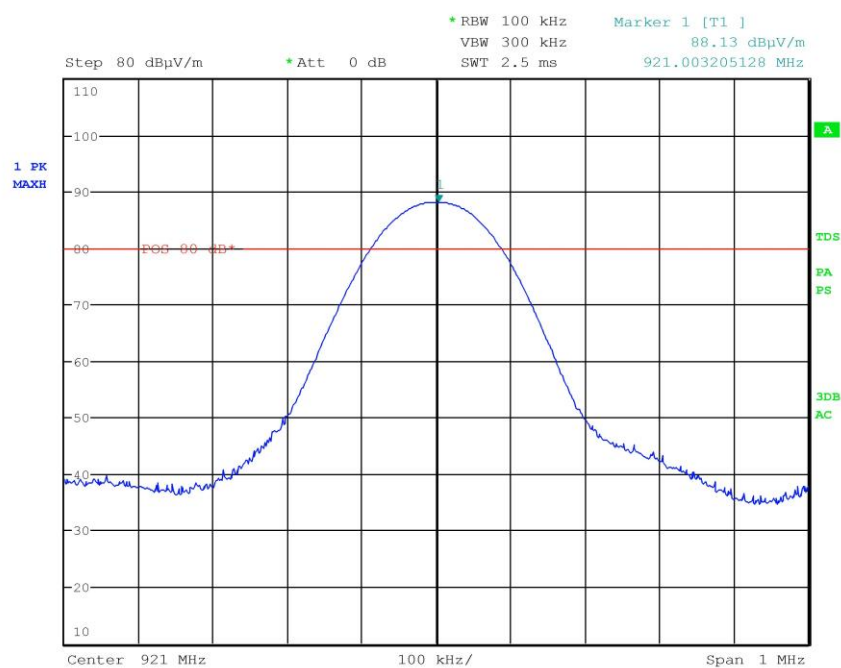
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmed
Operator Gandini 14077319
Test Spec
Horiz





G14077321

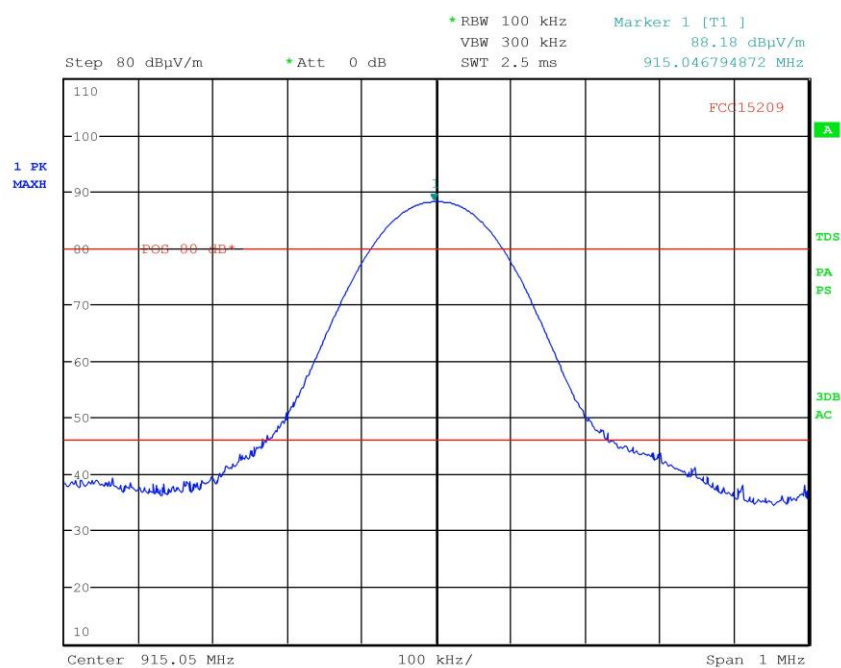
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmed
Operator Gandini 14077321
Test Spec
Vert





G14077322

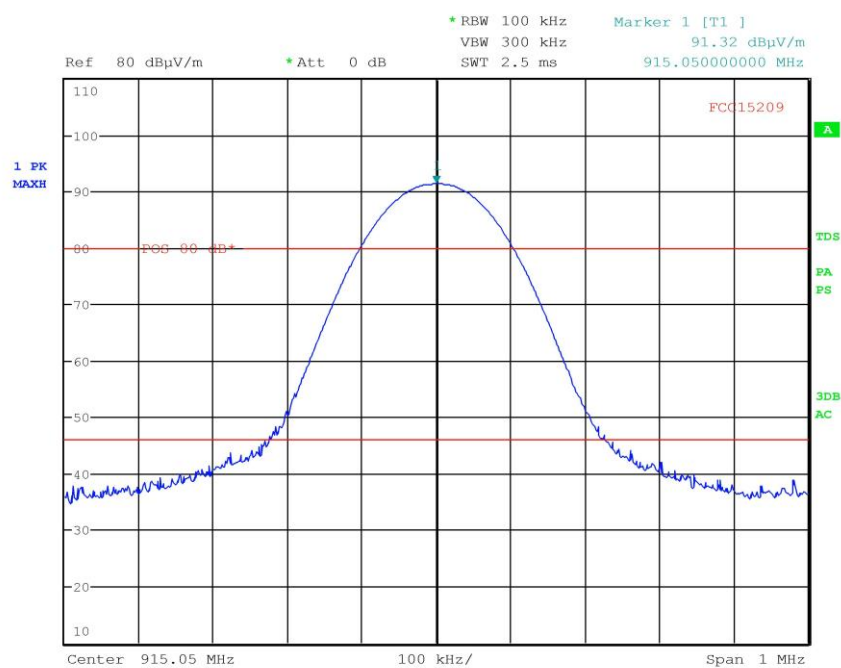
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmin
Operator Gandini 14077322
Test Spec
Vert





G14077325

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmin
Operator Gandini 14077325
Test Spec
Horiz



Result: The requirements are met



11.6 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.249 (d)
- RSS-210
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation

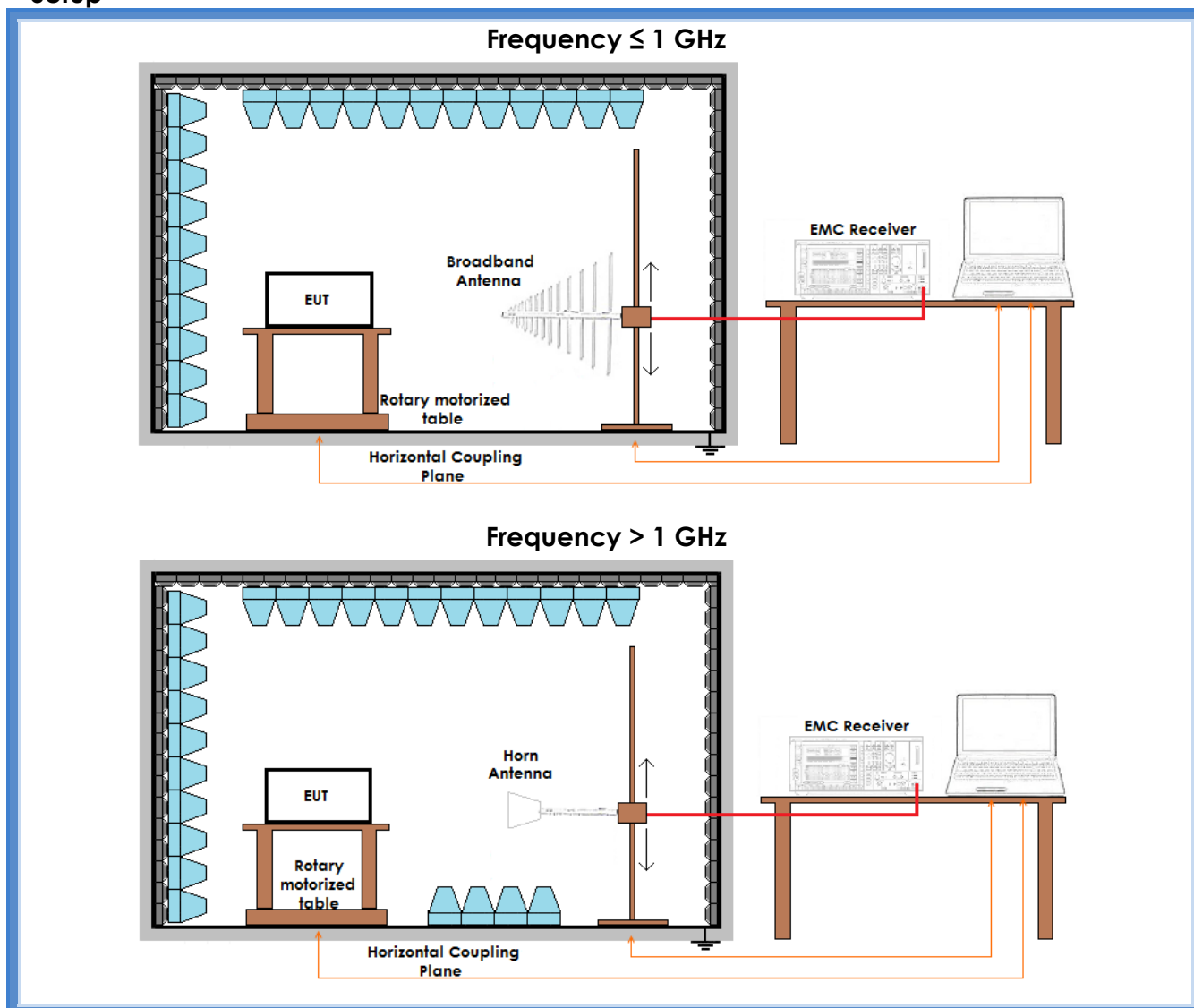
Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
21	99	50

Acceptance limits: operation within the band 902 – 928 MHz



Setup



Result

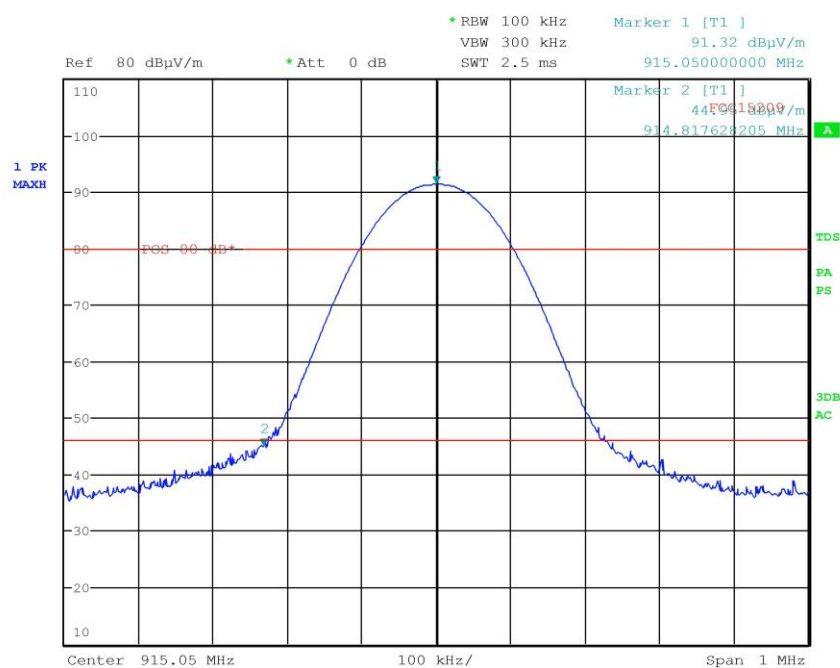
Frequency (MHz)	Graph(s)	Results	
915,050	G14077326	F _L : 914,819	Complies
	G14077327		
927,800	G14077313	F _H : 927,993	Complies
	G14077314		

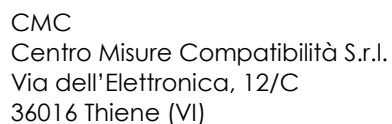


Graphs

G14077326

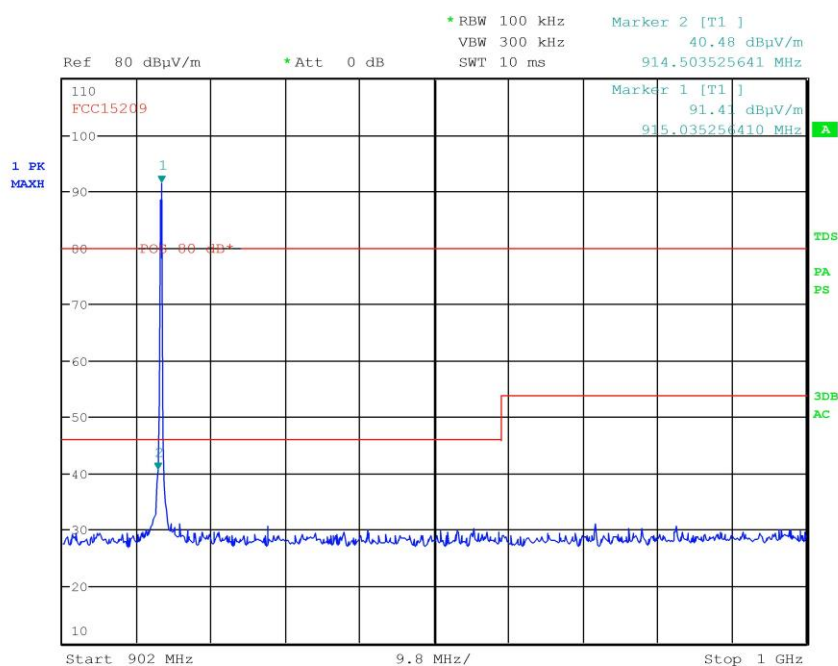
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmin
Operator Gandini 14077326
Test Spec
Horiz





G14077327

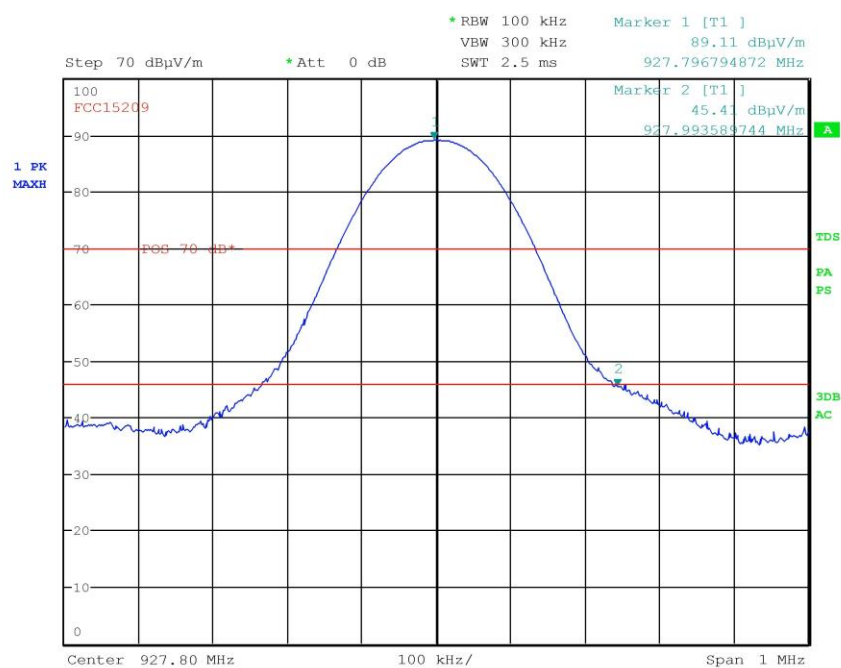
Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	Tx-Fmin
Operator	Gandini 14077327
Test Spec	
Horiz	





G14077313

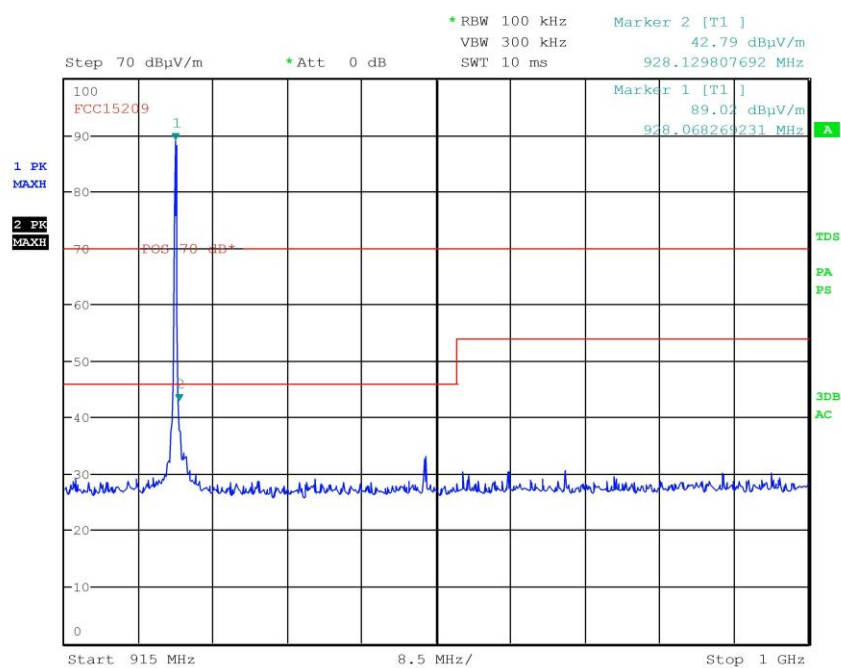
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmax
Operator Gandini 14077313
Test Spec
Vetr





G14077314

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Fmax
Operator Gandini 14077314
Test Spec
Vetr



Result: The requirements are met



11.7 Spurious Emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209
- RSS-210
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m
Detector AV + Peak

Environmental conditions

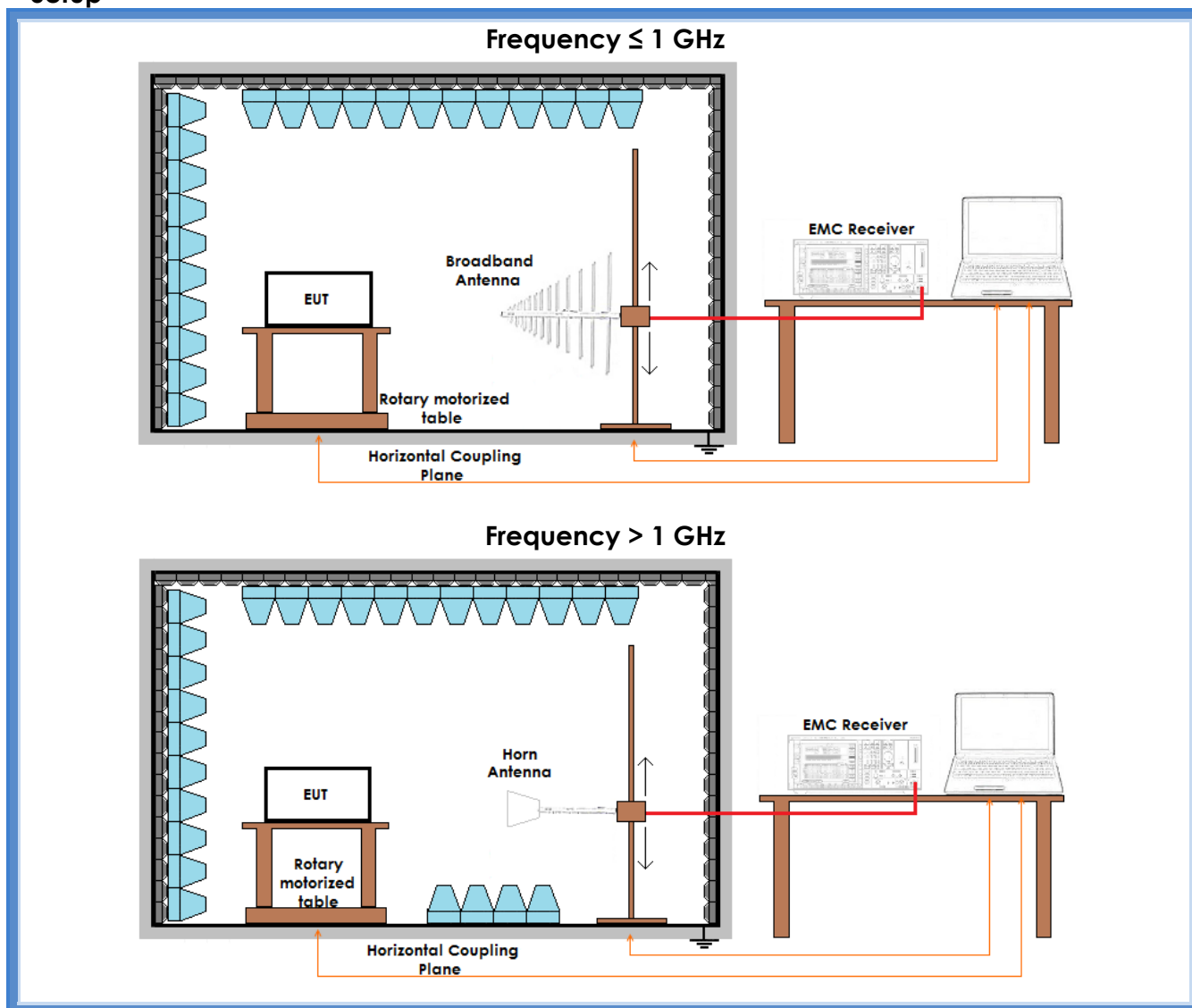
Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
21	98	49

Acceptance limits

Frequency (MHz)	AV limits [dB(μV/m)]	Peak limits [dB(μV/m)]
> 1000	54	74



Setup





Graph:

G1477306 and G14077307

Result – AV detector

Harmonic	Limits (dB μ V/m)	Level (dB μ V/m)			Results
		915,050 MHz	921,000 MHz	927,800 MHz	
II	54	49,9	49,78	50,9	Complies
III	54	43,9	46,1	45,7	Complies
IV	54	47,6	46,7	50,8	Complies
V	54	44,9	45,0	48,6	Complies
VI	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VII	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VIII	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
IX	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
X	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values

Result – Peak detector

Harmonic	Limits (dB μ V/m)	Level (dB μ V/m)			Results
		915,050 MHz	921,000 MHz	927,800 MHz	
II	74	50,9	50,7	50,7	Complies
III	74	45,7	48,1	48,1	Complies
IV	74	50,8	50,1	51,3	Complies
V	74	48,6	50,2	49,7	Complies
VI	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VII	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VIII	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
IX	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
X	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values

Result: The requirements are met