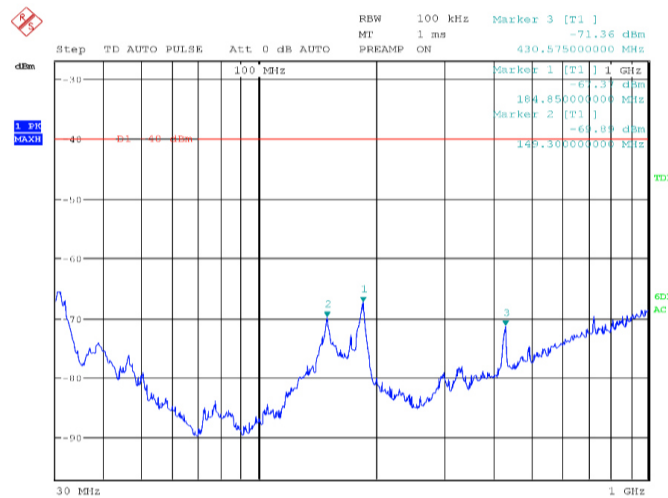


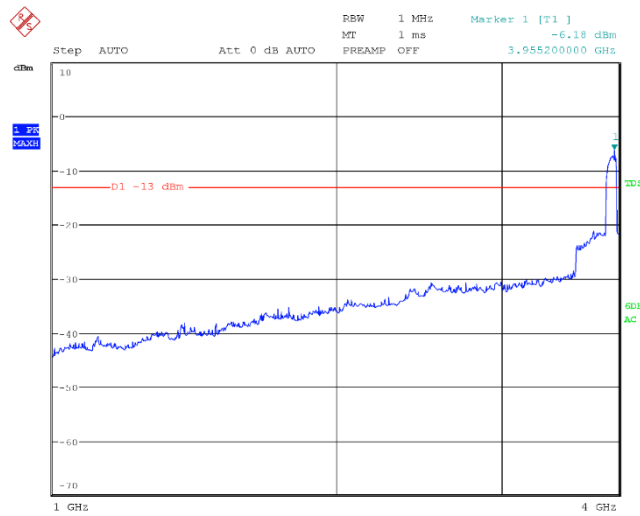
Date: 4.MAR.2024 18:35:12

100 MHz signal, Top Channel, 30MHz - 1GHz, H Pol



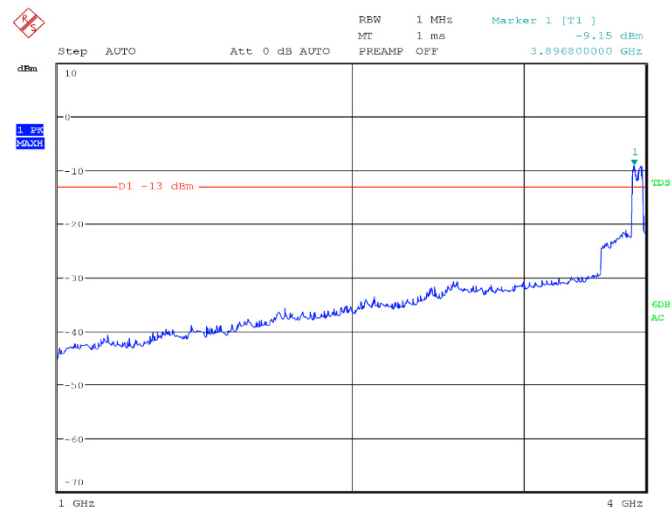
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100 MHz signal, Top Channel, 30MHz - 1GHz, V Pol



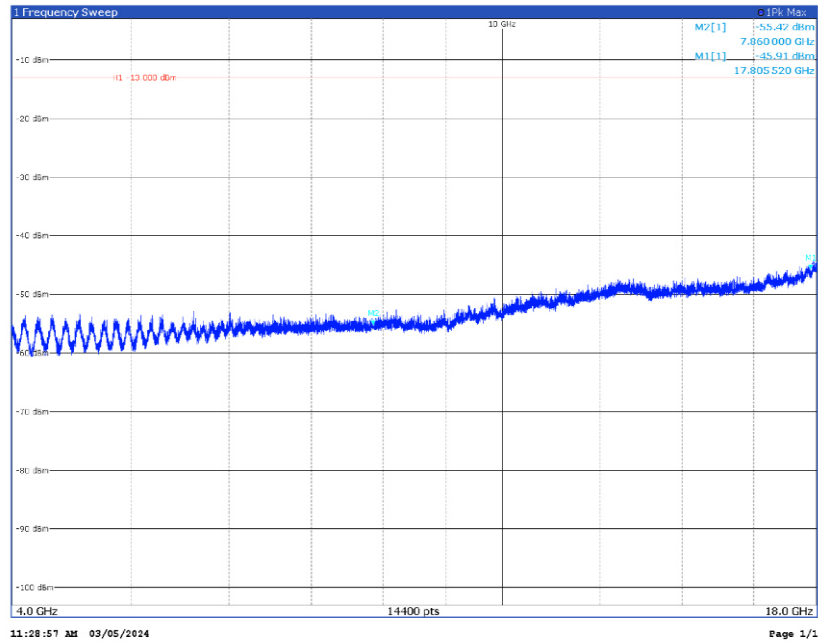
Date: 5.MAR.2024 11:40:53

100 MHz signal, Top Channel, 1GHz - 4GHz, H Pol

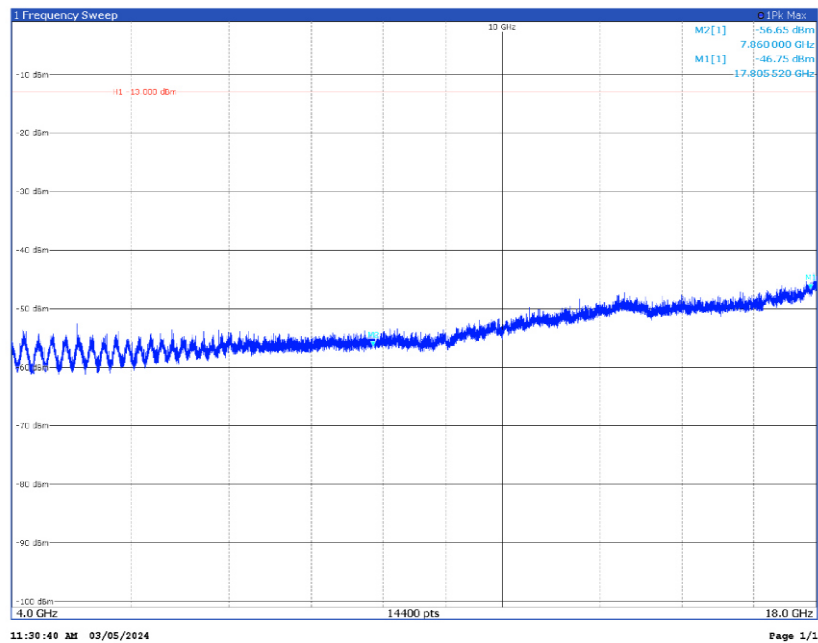


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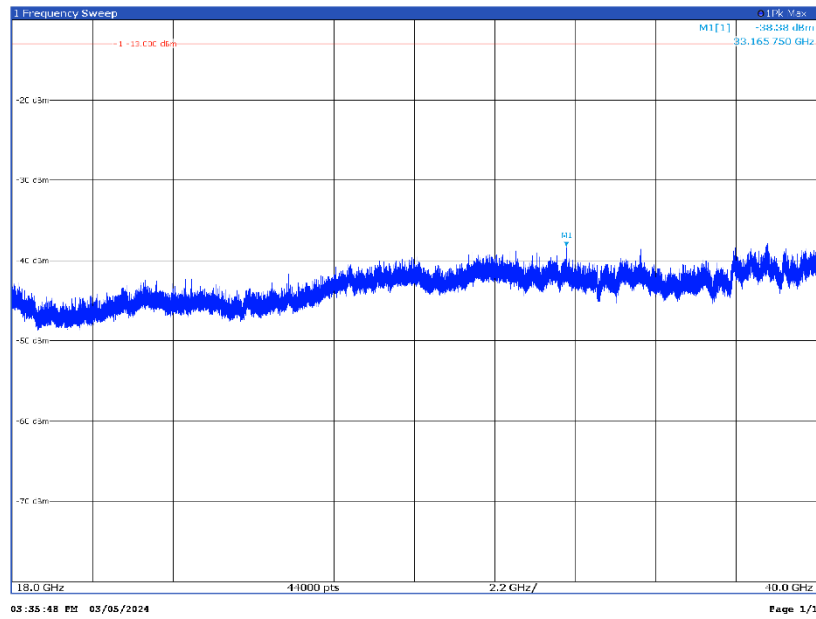
100 MHz signal, Top Channel, 1GHz - 4 GHz, V Pol



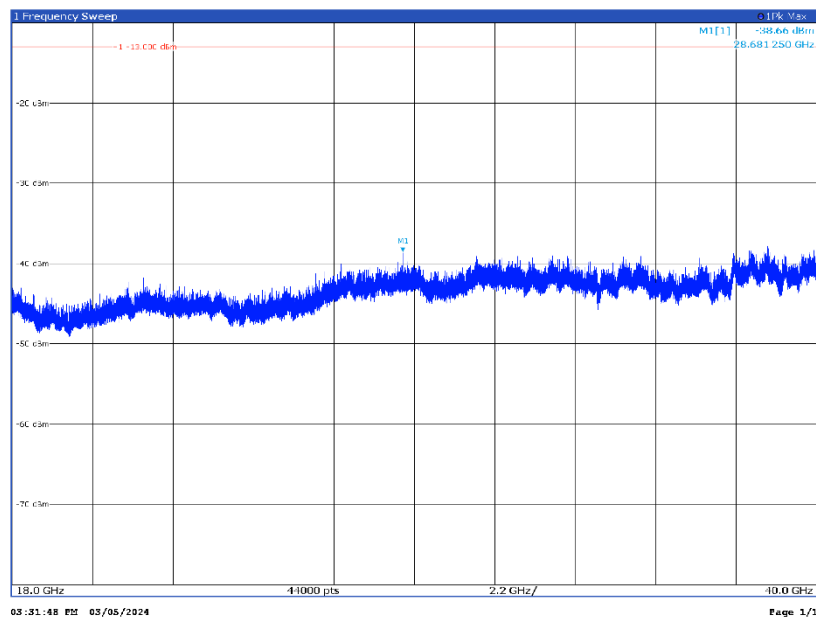
100 MHz signal, Top Channel, 4 GHz – 18 GHz, V Pol



100 MHz signal, Top Channel, 4 GHz – 18 GHz, H Pol



100 MHz signal, Top Channel, 18GHz - 40GHz, H Pol



100 MHz signal, Top Channel, 18GHz - 40GHz, V Pol

Clause 27.54 Frequency stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test date: 2024-02-13 to 2024-02-28

Test results: Pass

Special notes

Test are performed at 85% (90Vac) and 115% (264Vac) of the primary supply voltage and the same result was found.

Test equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.
Vector Signal Generator	Keysight	N5182B MXG	MY57300314	2026-12
Spectrum Analyzer	Keysight	N9030B PXA	MY62282033	2024-12
Climatic Chamber	ESPEC	ARS-1100-AE	4100200526	2024-12

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use
 (*) Equipment supplied by manufacturer's

Test data

RF PORT 1

Temperature = -30°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.8	Hz
MIDDLE	5G 100 MHz	-20.1	Hz
TOP	5G 100 MHz	-21.7	Hz

Temperature = -20°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.9	Hz
MIDDLE	5G 100 MHz	-18.3	Hz
TOP	5G 100 MHz	-19.5	Hz

Temperature = -10°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-19.0	Hz
MIDDLE	5G 100 MHz	-18.9	Hz
TOP	5G 100 MHz	-19.4	Hz

Temperature = 0°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.8	Hz
MIDDLE	5G 100 MHz	-19.4	Hz
TOP	5G 100 MHz	-19.3	Hz

Temperature = +10°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-19.0	Hz
MIDDLE	5G 100 MHz	-19.3	Hz
TOP	5G 100 MHz	-18.3	Hz

Temperature = +20°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-19.2	Hz
MIDDLE	5G 100 MHz	-20.0	Hz
TOP	5G 100 MHz	-18.4	Hz

Temperature = +30°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.4	Hz
MIDDLE	5G 100 MHz	-19.3	Hz
TOP	5G 100 MHz	-19.5	Hz

Temperature = +40°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.0	Hz
MIDDLE	5G 100 MHz	-18.1	Hz
TOP	5G 100 MHz	-17.7	Hz

Temperature = +50°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-15.7	Hz
MIDDLE	5G 100 MHz	-17.4	Hz
TOP	5G 100 MHz	-18.3	Hz

RF PORT 2

Temperature = -30°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-19.5	Hz
MIDDLE	5G 100 MHz	-17.8	Hz
TOP	5G 100 MHz	-19.7	Hz

Temperature = -20°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-17.7	Hz
MIDDLE	5G 100 MHz	-18.1	Hz
TOP	5G 100 MHz	-18.5	Hz

Temperature = -10°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.8	Hz
MIDDLE	5G 100 MHz	-17.8	Hz
TOP	5G 100 MHz	-19.5	Hz

Temperature = 0°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.9	Hz
MIDDLE	5G 100 MHz	-18.4	Hz
TOP	5G 100 MHz	-19.0	Hz

Temperature = +10°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-19.2	Hz
MIDDLE	5G 100 MHz	-18.3	Hz
TOP	5G 100 MHz	-19.5	Hz

Temperature = +20°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-19.6	Hz
MIDDLE	5G 100 MHz	-20.5	Hz
TOP	5G 100 MHz	-20.7	Hz

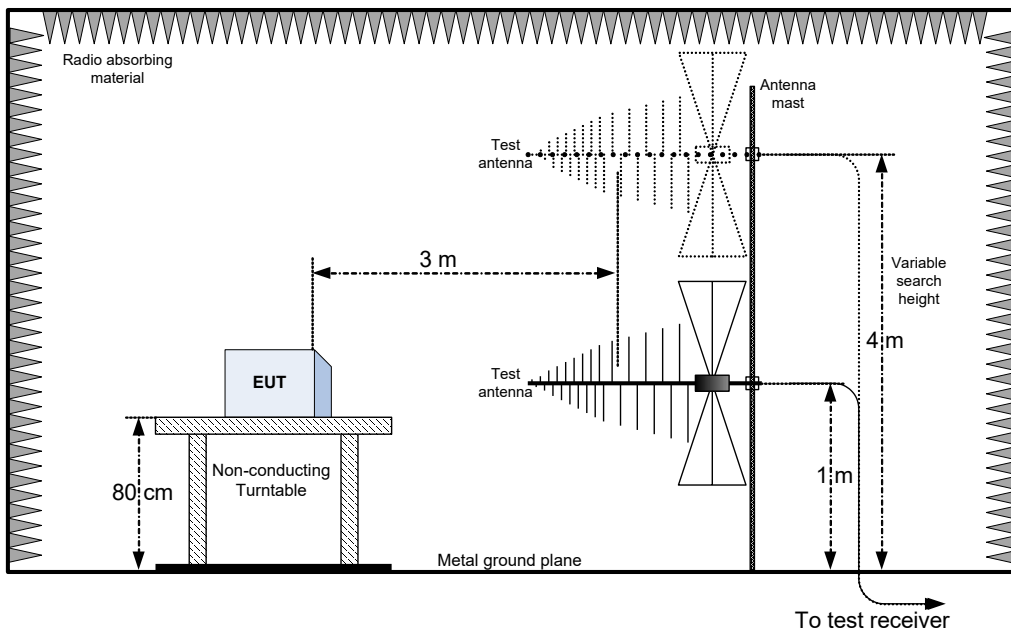
Temperature = +30°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-18.4	Hz
MIDDLE	5G 100 MHz	-18.2	Hz
TOP	5G 100 MHz	-18.1	Hz

Temperature = +40°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-17.1	Hz
MIDDLE	5G 100 MHz	-18.5	Hz
TOP	5G 100 MHz	-18.0	Hz

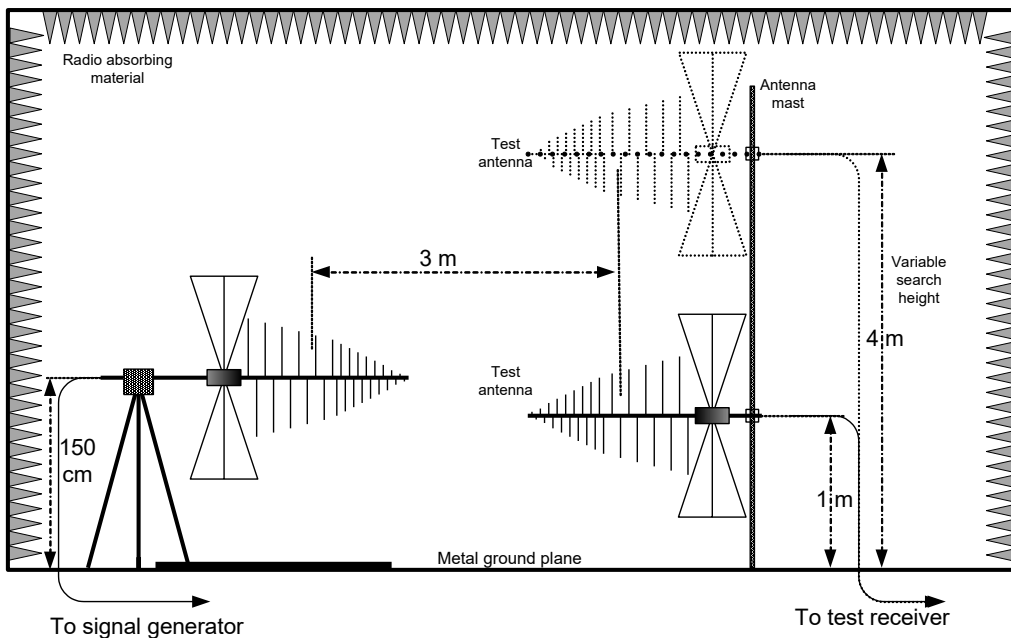
Temperature = +50°C			
Channel	Signal	Frequency Error	Measurement unit
BOTTOM	5G 100 MHz	-16.6	Hz
MIDDLE	5G 100 MHz	-16.8	Hz
TOP	5G 100 MHz	-19.5	Hz

Appendix B: Block diagrams of test set-ups

Radiated emissions set-up

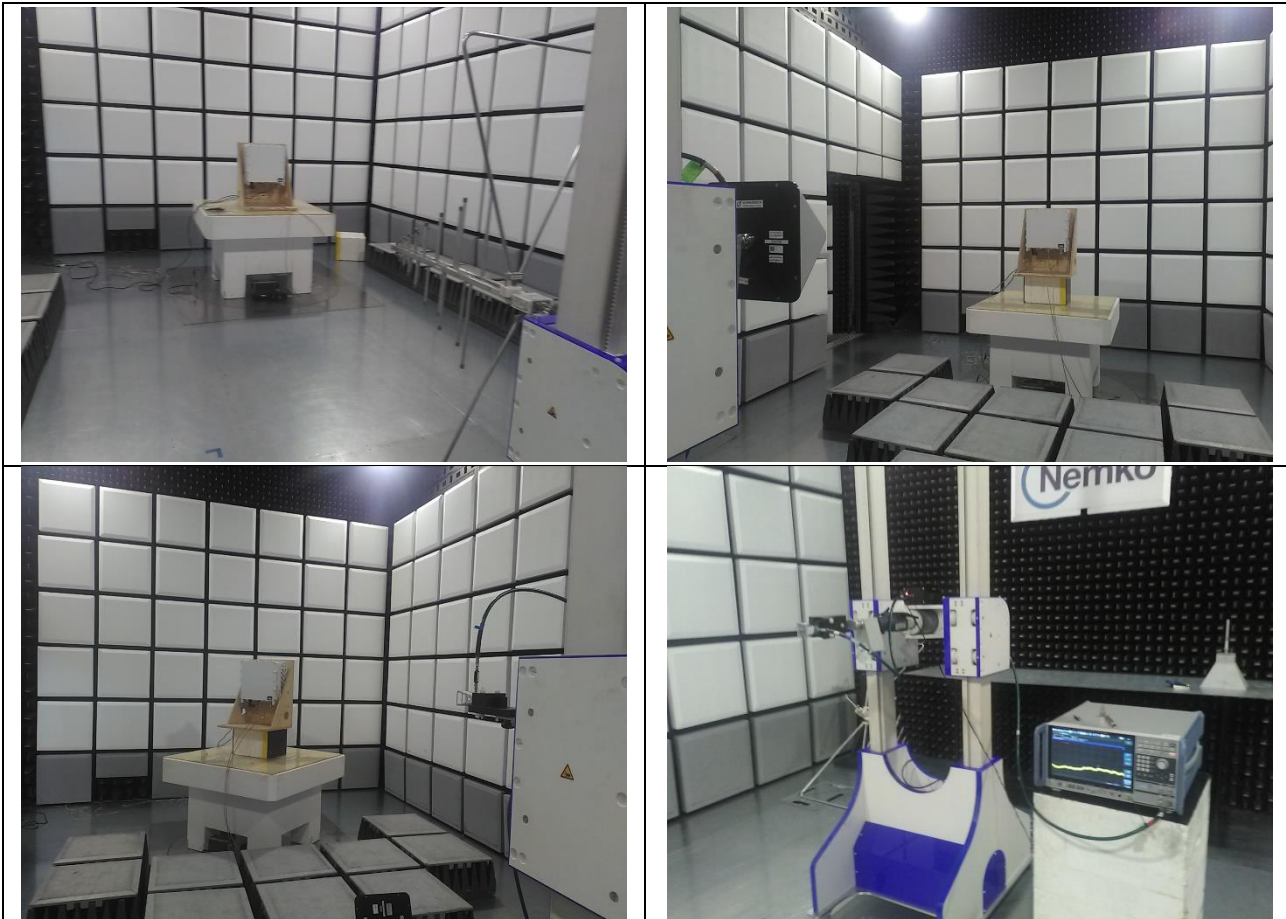


Substitution method set-up



Appendix C: EUT Photos

Photo Set up



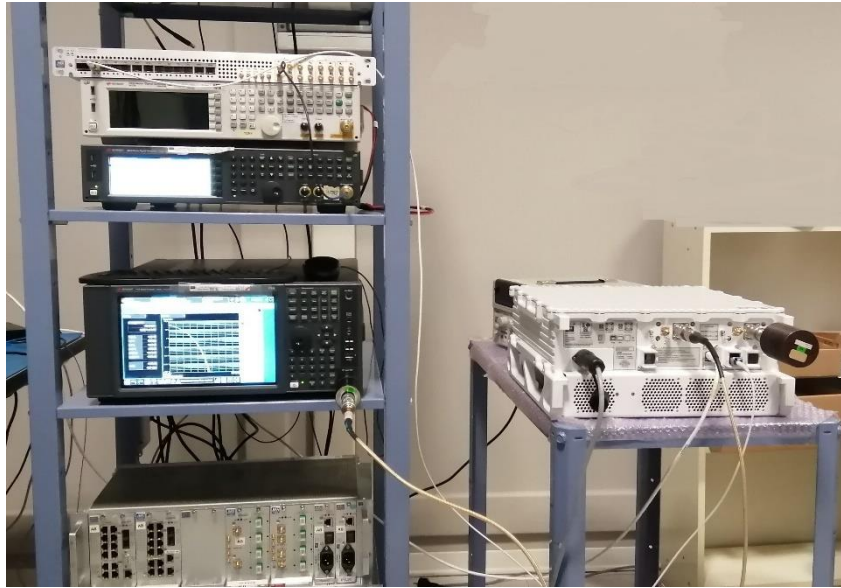
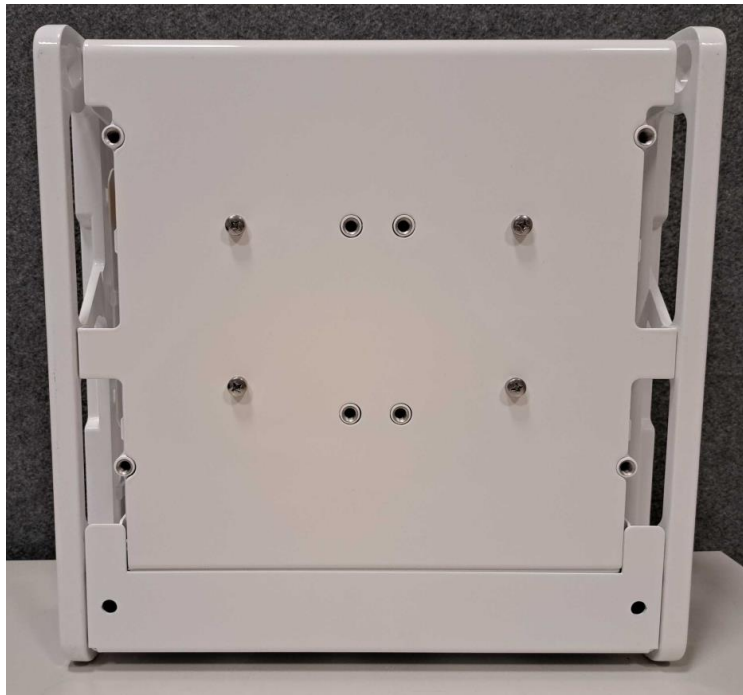
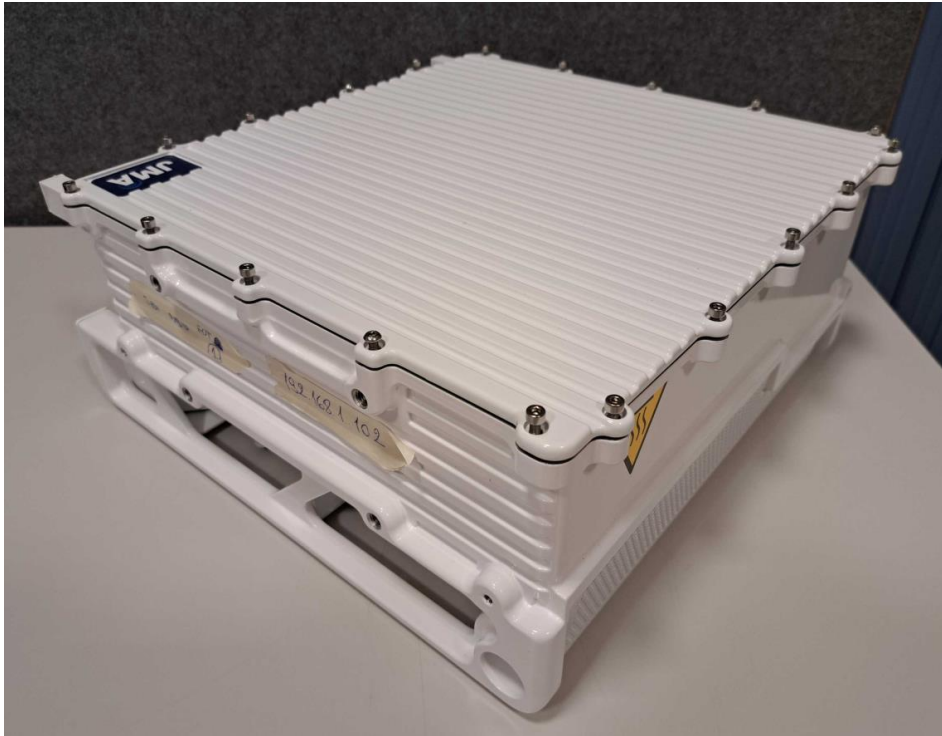


Photo EUT







- END OF REPORT -