

EMC TEST REPORT

No. 2310419STO-101

Electromagnetic disturbances

EQUIPMENT UNDER TEST

Equipment: AIR Antenna Integrated Radio AAS
Type/Model: AIR 3283 B25 B66
Product number: KRD 901 892/2
Product configuration: LTE and NR
Manufacturer: Ericsson AB
Tested by request of: Ericsson AB

*See opinions and interpretations clause 2.6

SUMMARY

Referring to the emission limits, and the operating mode during the tests specified in this report, the equipment complies with the radiated spurious emission requirements according to the following standards:

47 CFR Part 2 Subpart J
47 CFR Part 24 Subpart E
47 CFR Part 27 Subpart C

For details, see clause 2 – 4.

Issued by:

Tsegereda Gebrehiwet

Approved by:

Anna Karin Cedergren

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Revision History

Test report number	Date	Description	Changes
2310419STO-101	July 30, 2024	First release	--

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1. CLIENT INFORMATION

The EUT has been tested by request of

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Sweden

Name of contact: Lennart Blixt
BNEW DNEW RA RPSE1 IVC EMC
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Client observer: Haji Akbar Babar

2. EQUIPMENT UNDER TEST (EUT)

2.1 Identification of the EUT

Equipment	AIR Antenna Integrated Radio AAS
Type/Model	AIR 3283 B25 B66
Product number	KRD 901 892/2
Product configuration	LTE and NR
Brand name	Ericsson
Manufacturer	Ericsson
Rating	-48VDC max: 50A
Class	III
Highest clock frequency	CPRI 25,78 GHz



Photos of markings

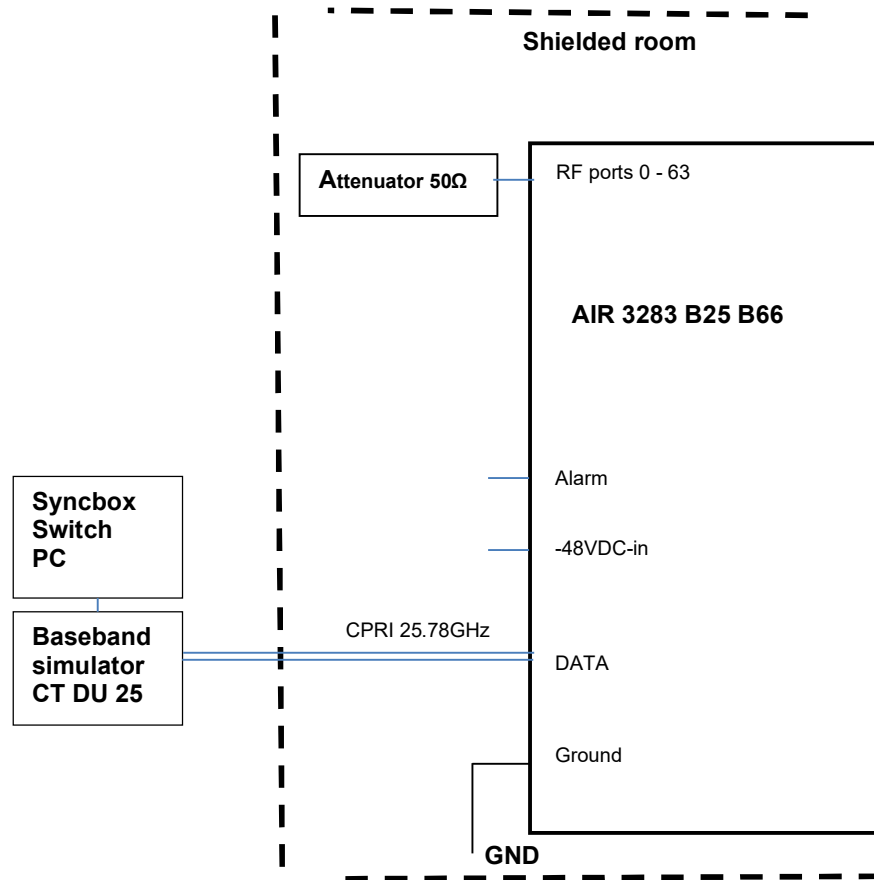


Photos of EUT

2.2 Description of the EUT

The test object AIR 3283 B25 B66 is antenna integrated radio AAS with LTE and NR support. It is designed to provide mobile users with a connection to a mobile network.

2.3 Test setup- block diagram



Block diagram of EUT during the tests

2.4 External cables connected to the EUT

Port	Type	Length [m]	Specifications
DC input power	RPM 150 54/10M R1A	10,0	DC power Three-wire
Earth	Ground	2,0	Single wire, 35mm ²
External Alarm	RPM 513 2350/15000 R1A	10,0	Shielded signal cable
Data_1 & 2	RPM 253 1610/20M	20,0	Optical fibre cable
Antenna port	RF cable	--	Attenuator

2.5 Auxiliary equipment (AE)

Auxiliary equipment is equipment needed for correct operation of the EUT, but not included as part of the testing and evaluation of the EUT.

Equipment	Type / Model	Manufacturer	Serial no.
Computer	MacBook Pro	Apple	BAMS-1001997578 ASSET: 4137535
PSU	LP2 x 700W BML 901 468/1	Ericsson	BAMS-1056778582
Baseband simulator CT-DU25	LPC 102 500/1	Ericsson	T01G522083
SFP module	RDH 102 75/2 R1A	Ericsson	CT72247996
SFP module	RDH 102 75/2 R1A	Ericsson	CT72194126
Sync Box	LPC 107 043/1 R2B	Ericsson	BAMS-1002156826 ASSET: 4157127
Power supply (for EUT)	SGA 60/250	Sorensen	BAMS-1000234866
Power supply (for AE)	SGA 80/125	Sorensen	BAMS-1000581824

2.6 Opinions and interpretations

The following types are also included as additional types in this test report:

The differences between the models are (according to the manufacturer):

Type/Model	Product numbers	Comment
AIR 3283 B25 B66	KRD 901 892/1	Radio including AFU (Antenna Filter Unit), with un-security software
	KRD 901 892/2*	Radio including VFU (Verification Filter Unit, excluding antenna) with un-security software
	KRD 901 892/11	Radio including AFU (Antenna Filter Unit) with security software
	KRD 901 892/21	Radio including VFU (Verification Filter Unit, excluding antenna) with security software

*Tested unit. The tests were performed on KRD 901 892/2 (AIR 3283 B25 B66 with un- security software for testing purposes).

The hardware and software (except for the security software) are identical for all types above. The difference is considered not to imply different FCC part 2 Radio characteristics when compared to the tested type.

2.7 Decision rule

The statements of conformity are reported as:

Passed – When the measured values are within the specified limits.

Failed – When one or more measures values are outside the specified limits.

3. TEST SPECIFICATIONS

3.1 Standards

Requirements:

FCC 47 CFR Part 2 Subpart J
 FCC 47 CFR Part 24 Subpart E
 FCC 47 CFR Part 27 Subpart C (2019) + amendment published on April 23, 2020

Test methods:

KDB971168 D01 Power Meas License Digital Systems v03r01
 ANSI C63.26: 2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

3.2 Additions, deviations and exclusions from standards and accreditation

The following deviation from standards and accreditation was made: only the radiated spurious emission performed according to manufacturer's request.

No other additions, deviations or exclusions have been made from standards and accreditation.

3.3 Test site

Measurements were performed at:

Intertek Semko AB.
 Torshamnsgatan 43,
 P.O. Box 1103
 SE-164 22 Kista

Intertek Semko AB is a FCC listed test site with site registration number 90913
 Intertek Semko AB is a FCC accredited conformity assessment body with designation number SE0002
 Intertek Semko AB is an Industry Canada listed test facility with IC assigned code 2042G
 Intertek Semko AB is an Innovation, Science and Economic Development Canada recognized wireless device testing laboratory with CAB identifier SE0003

Measurement chambers

Measurement Chamber	Type of chamber	IC Site filing #
5 m CHAMBER	Semi-anechoic 5 m	2042G-3

3.4 Mode of operation during the test

The EUT was tested with -48 V DC, up to 50 A. Max total output power is 320W.

	Total bands	B25	B2	B66
Maximum Total Power	320W	240W	240W	240W

Radio Configuration

The AIR 3283 B25 B66 was configured to operate with LTE and NR technology.

The EUT was tested with 22 different radio transmitting configurations. See table on next page for detailed radio configurations of the EUT.

Transmission bands

Frequency Range (MHz to MHz)	LTE	NR SCS 15kHz
B25	1930MHz -1995MHz	1930MHz -1995MHz
B2	1930MHz -1990MHz	1930MHz -1990MHz
B66	2110MHz -2200MHz	2110MHz -2200MHz

LTE:

The test object was activated for maximum transmit power. Test Model for B25/B2 is 64QAM E-TM3.1 whereas for B66 is QPSK E-TM1.1.

NR:

The test object was transmitting test model FR1-TM1.1 as defined in ETSI TS 138 141/ 3GPP TS 38.141-1.

Radio configuration for radiated emission

Configuration	No of Carriers	Carrier Frequency MHz	BW MHz	RF power (W)/ Carrier	Total Power (W)
C1-B25 -NR-1C-QPSK-B	1	1940.0	20	240	240
C2 -B25-NR-1C-QPSK-M	1	1962.5	20	240	240
C3 -B25-NR-1C-QPSK-T	1	1985.0	20	240	240
C4 -B25-LTE-1C-64QAM-B	1	1932.5	5	60	60
C5 -B25-LTE-1C-64QAM-M	1	1962.5	5	60	60
C6 -B25-LTE-1C-64QAM-T	1	1992.5	5	60	60
C7 -B2-NR-1C-QPSK-T	1	1980.0	20	240	240
C8 -B2-LTE-1C-64QAM-T	1	1987.5	5	60	60
C9 -B2-B25-NR-2C-QPSK-M	2	1945.0 1980.0	20	2X120	240
C10 -B2-B25-LTE-2C-64QAM-M	2	1945.0 1980.0	5	2X40	80
C11 -B2-B25-MR-2C-64QAM-QPSK-M	2	1945.0 (LTE) 1970.0 (NR)	5 (LTE) 20 (NR)	40 (LTE) 160 (NR)	200
C12 -B66-NR-1C-QPSK-B	1	2120.0	20	240	240
C13 -B66-NR-1C-QPSK-M	1	2155.0	20	240	240
C14 -B66-NR-1C-QPSK-T	1	2190.0	20	240	240
C15 -B66-LTE-1C-QPSK-B	1	2120.0	20	240	240
C16 -B66-LTE-1C-QPSK-M	1	2155.0	20	240	240
C17 -B66-LTE-1C-QPSK-T	1	2190.0	20	240	240
C18 -B66-NR-2C-QPSK-M	2	2135.0 2175.0	20	2x120	240
C19 -B66-LTE-2C-QPSK-M	2	2135.0 2175.0	20	2x120	240
C20 -B66-MR-2C-QPSK-QPSK-M	2	2135.0 (LTE) 2175.0 (NR)	20 20	2x120	240
C21 - B66-B2-B25-MB-2C-64QAM-QPSK-M	2	1962.5 (B2/B25 LTE) 2155.0 (n66 NR)	5 20	60 240	300
C22 -MB-4C-B25-64QAM-QPSK-B66-QPSK-QPSK-M	4	1945.0 (B2/B25 LTE) 1980.0 (n2/n25 NR) 2135.0 (B66 LTE) 2175.0 (n66 NR)	5 20 20 20	30 120 80 80	310

Modulation for B25/2/66 NR is QPSK while for B25/2 LTE is 64QAM and B66 LTE is QPSK.

3.5 Compliance

The EUT shall comply with the emission limits as listed below.

Spurious emission at antenna terminals

CFR47 §2.1051, §27.53(h), §24.229

The conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

4. TEST SUMMARY

The results in this report apply only to sample tested:

Standard	Description	Result
	Emission	
ANSI C63.26	<p>Field strength of spurious radiation</p> <p>The EUT complies with the limits.</p> <p>The margin to the limit was more than 20 dB to the limit at 30 – 1000 MHz.</p> <p>The margin to the limit was more than 20 dB to the limit at 1 – 18 GHz.</p> <p>The margin to the limit was more than 20 dB to the limit at 18 – 22 GHz.</p> <p>See clauses 5.3-5.5.</p>	PASS

5. RADIATED RF EMISSION IN THE FREQUENCY-RANGE 30 MHZ– 22 GHZ

Date of test	Temperature [°C]	Relative Humidity [%]	Tested by
July 8, 2024	24	35	Mohammad Nourjoo
July 9, 2024	23	48	Mohammad Nourjoo
July 10, 2024	24	39	Mohammad Nourjoo
July 11, 2024	22	61	Mohammad Nourjoo
July 12, 2024	23	60	Mohammad Nourjoo
July 15, 2024	22	60	Mohammad Nourjoo
July 16, 2024	22	56	Mohammad Nourjoo
July 17, 2024	23	63	Mohammad Nourjoo

5.1 Test set-up and test procedure

The test method is in accordance with ANSI C63.26.

The EUT was set up in order to emit maximum disturbances.

30 – 1000 MHz: The EUT was placed on a pole 0.8 m above the turntable which is part of the reference ground plane (RGP). The pole was insulated from RGP with 15 cm thick support.

> 1000 MHz: The EUT was placed on a pole 1.5 m above the turntable which is part of the reference ground plane (RGP). The pole was insulated from RGP with 15 cm thick support. Absorbers were placed on the floor between the EUT and measurement antenna.

Overview sweeps were performed with the measurement receiver in max-hold mode and the peak and average detectors activated in the frequency-range

The EUT is continuously rotated 360°

Test set-up:	30 MHz – 22 GHz	
Test receiver set-up:		
Preview test:	Peak	RBW 1 MHz, VBW 3 MHz
	Average	RBW 1 MHz, VBW 3 MHz
Final test:	RMS	RBW 1 MHz, VBW 3 MHz
Measuring distance:	3 m	
Measuring angle:	0 – 359°	
EUT height above ground plane:	0.8 m	1.5 m
Antenna	30 – 1000 MHz	1 – 22 GHz
Type:	Bilog	Horn
Antenna tilt:	Not Activated	Activated
Height above ground plane:	1 – 4 m	
Polarisation:	Vertical and Horizontal	

$$E[\text{dB}\mu\text{V}/\text{m}] = \text{Analyser reading} [\text{dB}\mu\text{V}] + \text{Antenna factor} [1/\text{m}] - \text{Amplifier gain} [\text{dB}] + \text{Cable loss} [\text{dB}]$$

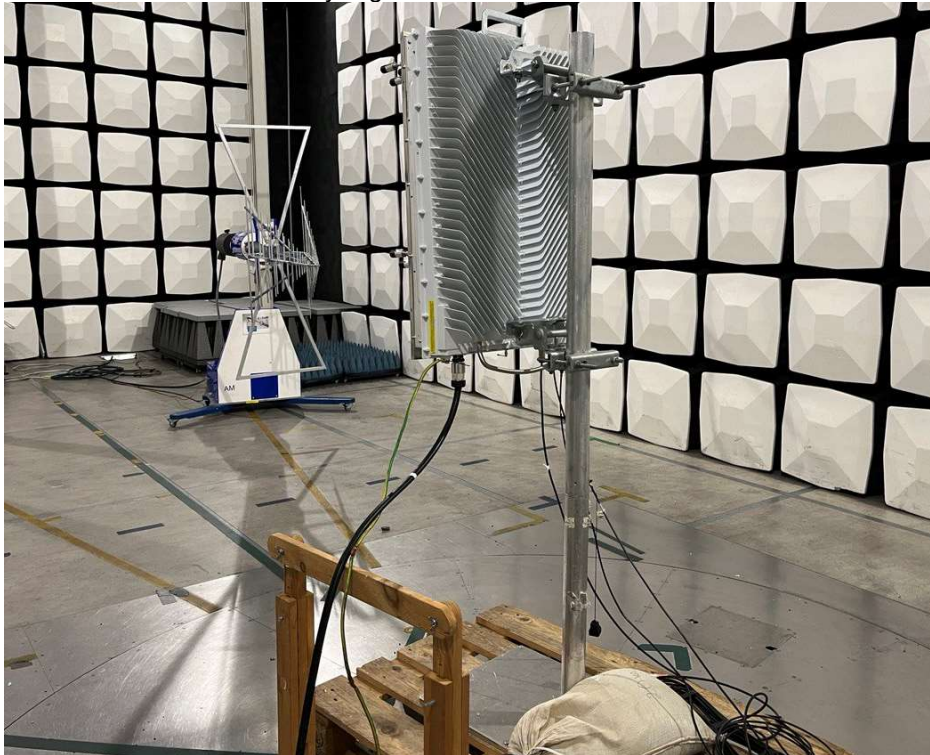
$$\text{EIRP} [\text{dBm}] = E[\text{dB}\mu\text{V}/\text{m}] + 20\log[3] - 104.8$$

5.2 Measurement uncertainty

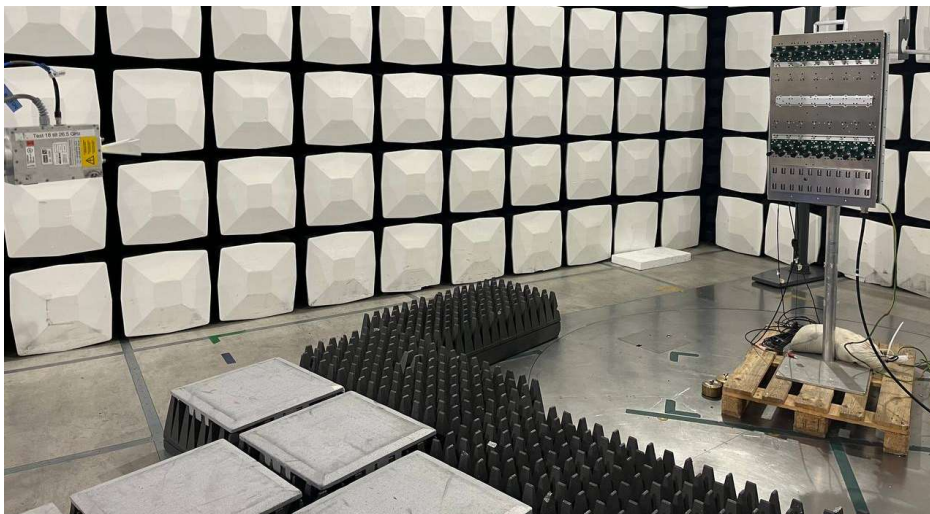
Measurement uncertainty for radiated disturbance

Uncertainty for the frequency range 30 to 1000 MHz at 3 m	± 5.1 dB
Uncertainty for the frequency range 30 to 1000 MHz at 10 m	± 5.0 dB
Uncertainty for the frequency range 1.0 to 18 GHz at 3 m	± 4.5 dB
Uncertainty for the frequency range 18 to 26 GHz at 3 m	± 4.8 dB
Uncertainty for the frequency range 26 to 40 GHz at 3 m	± 5.7 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2: 2011.
The measurement uncertainty is given with a confidence of 95 %.

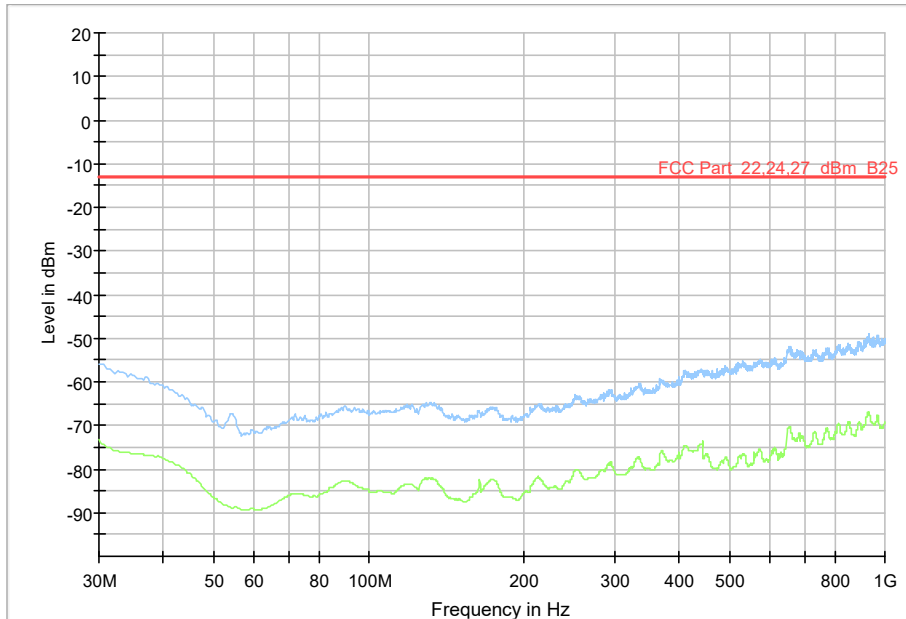


Photos of the test set up 30 – 1000 MHz



Photos of the test set up above 1 GHz

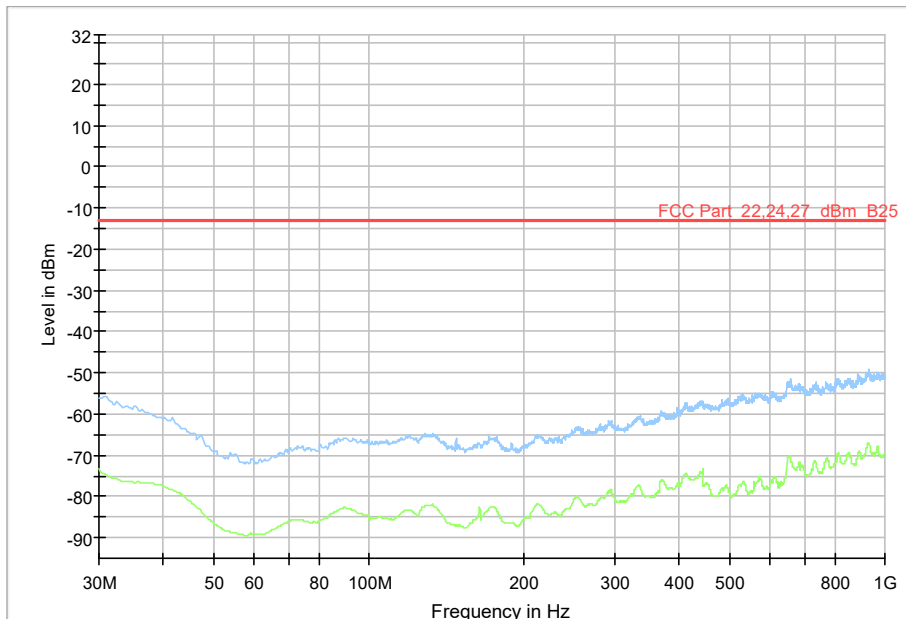
5.3 Test results, 30 – 1000 MHz



Diagram, Peak and average overview sweep, 30 – 1000 MHz, at 3 m distance, configuration C1.

Measurement results, RMS

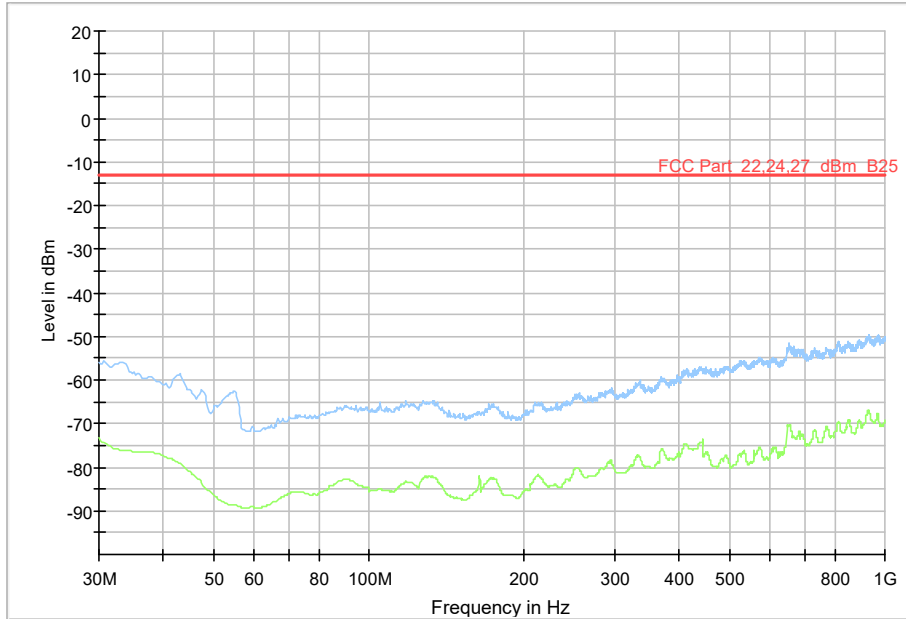
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C2.

Measurement results, RMS

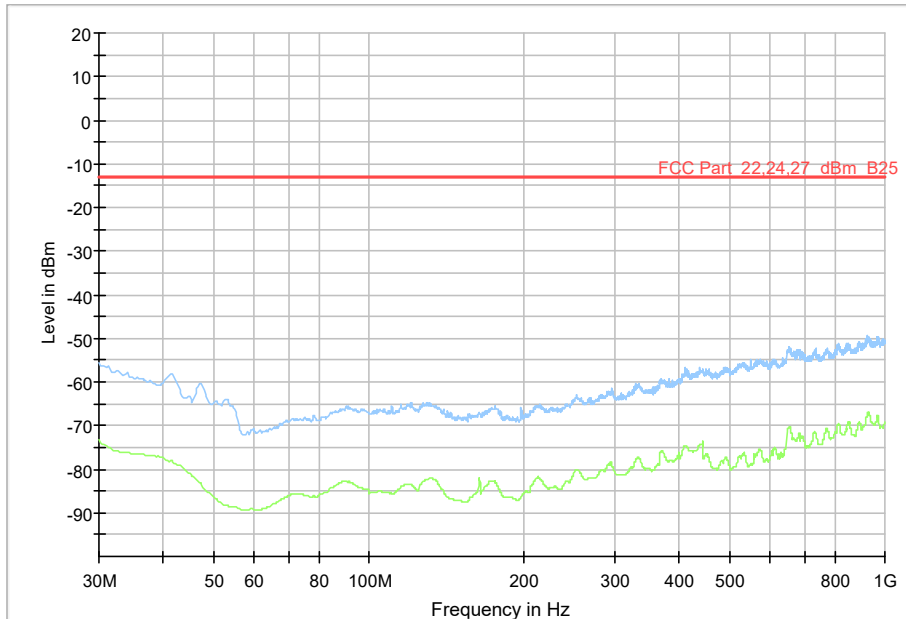
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C3.

Measurement results, RMS

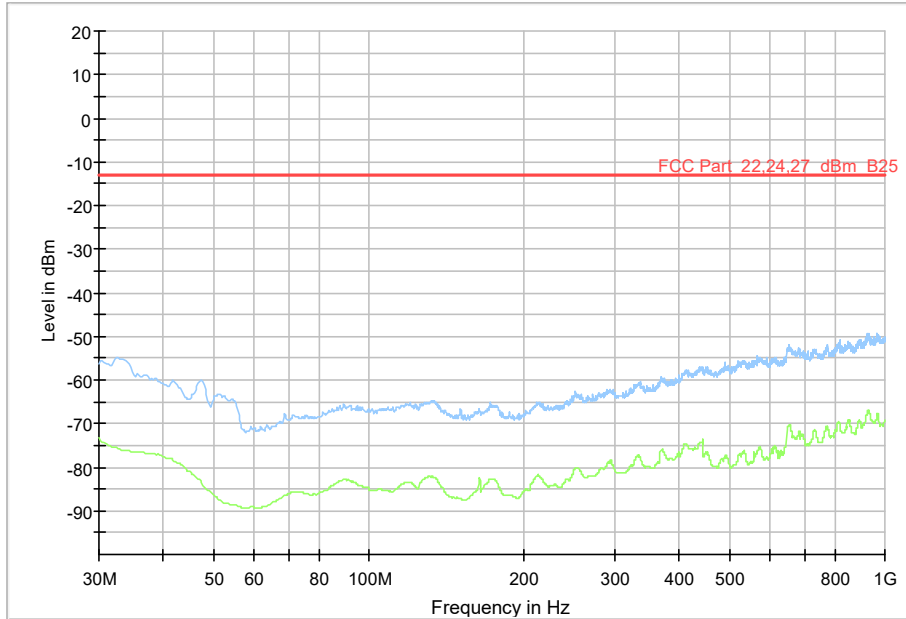
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C4.

Measurement results, RMS

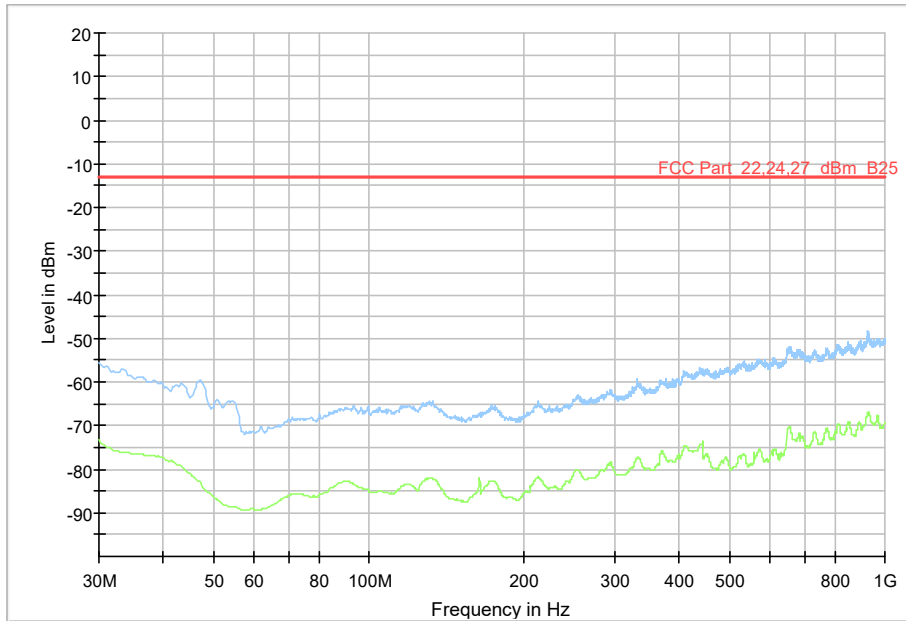
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C5.

Measurement results, RMS

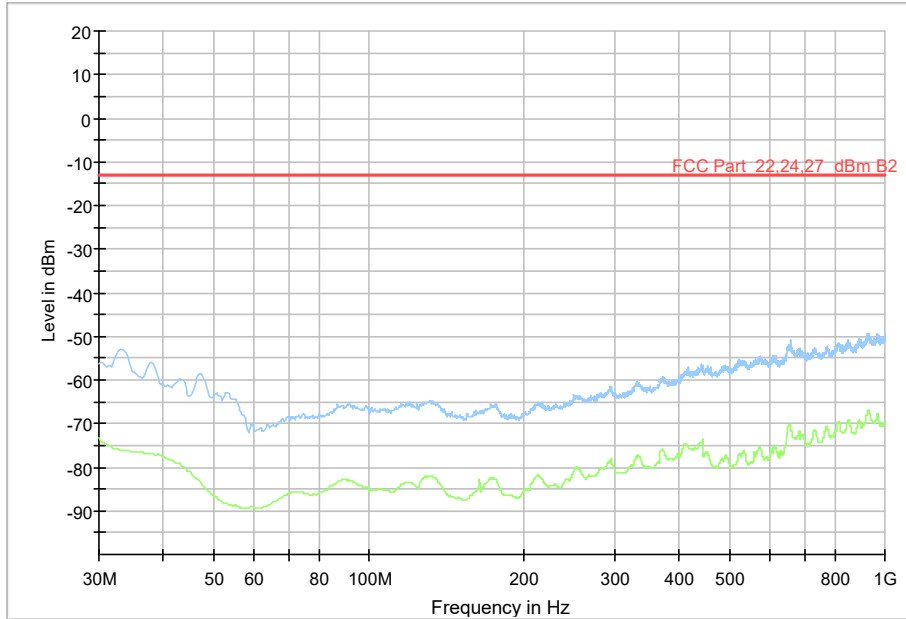
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C6.

Measurement results, RMS

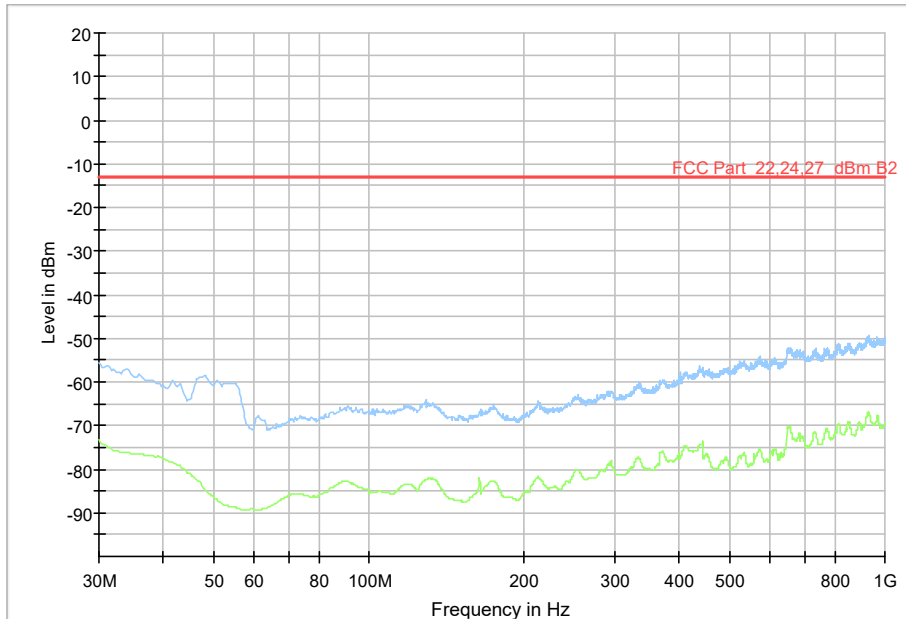
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C7.

Measurement results, RMS

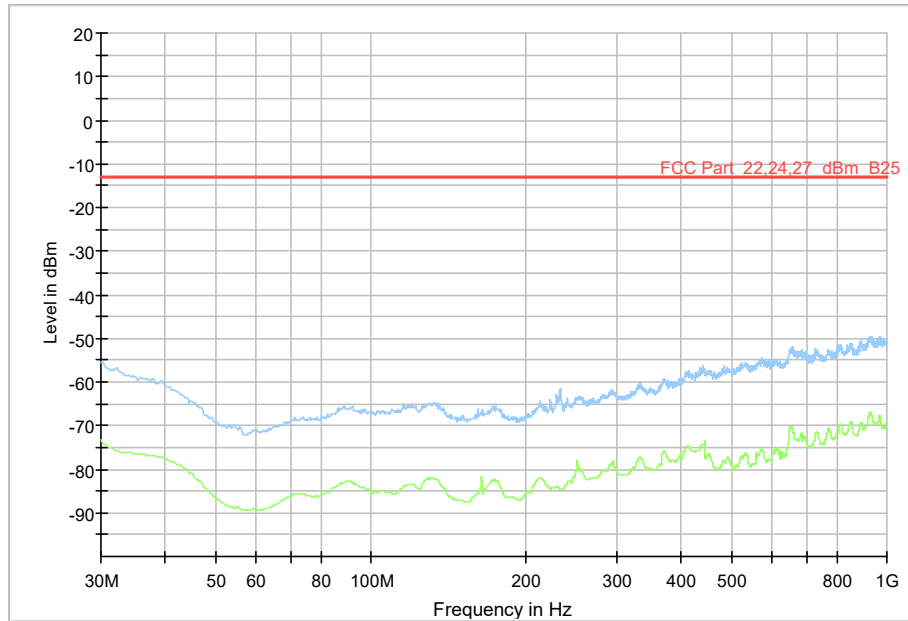
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C8.

Measurement results, RMS

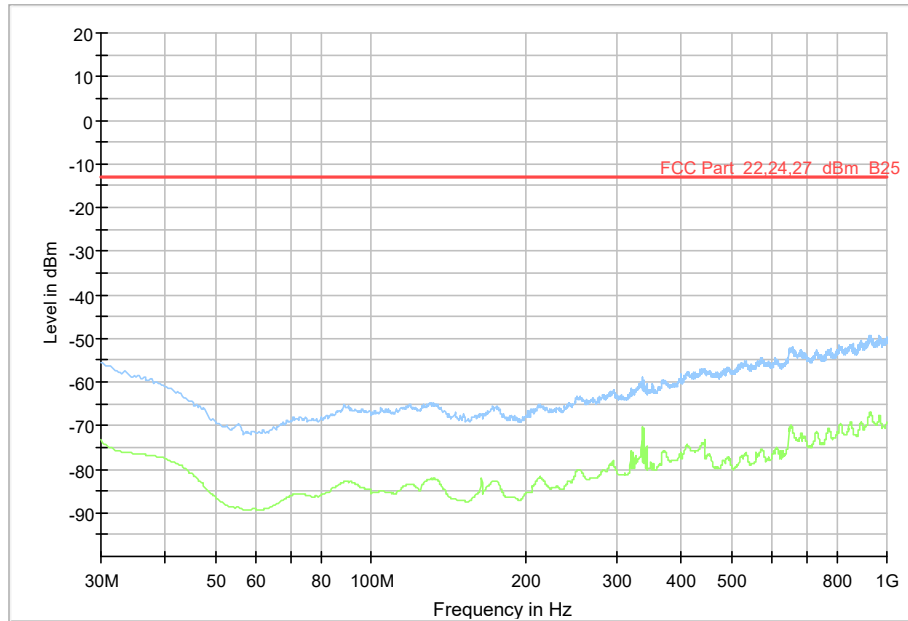
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C9.

Measurement results, RMS

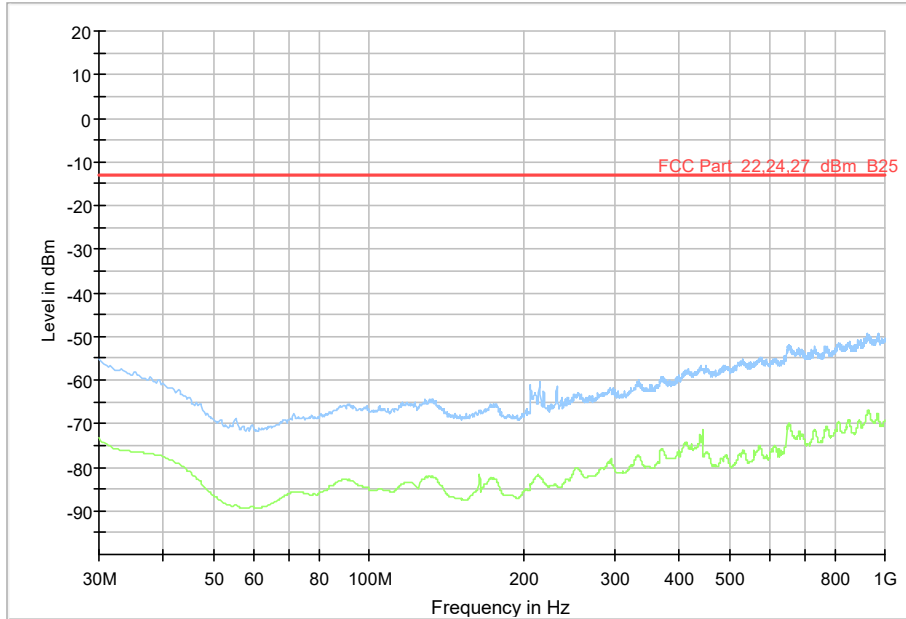
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C10.

Measurement results, RMS

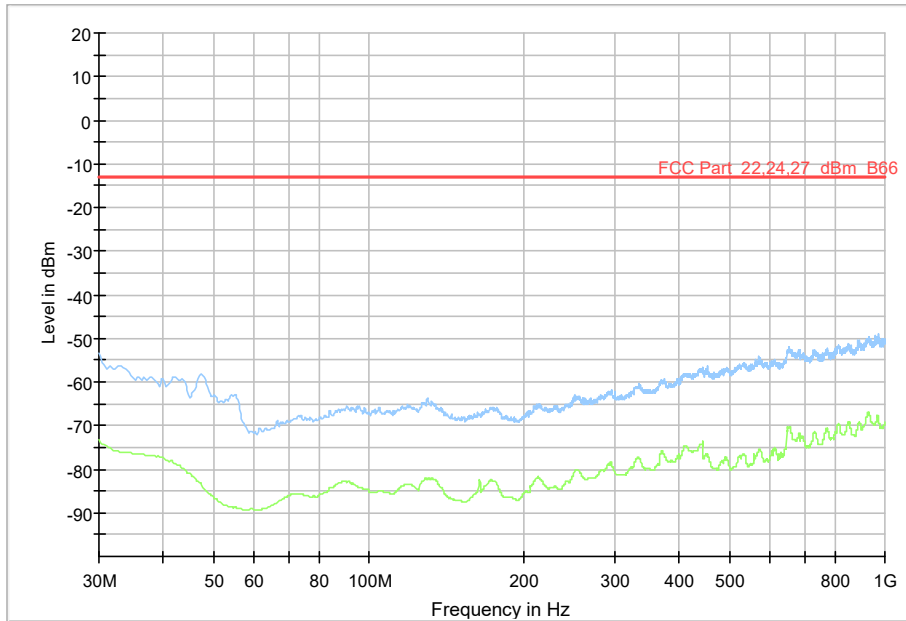
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C11.

Measurement results, RMS

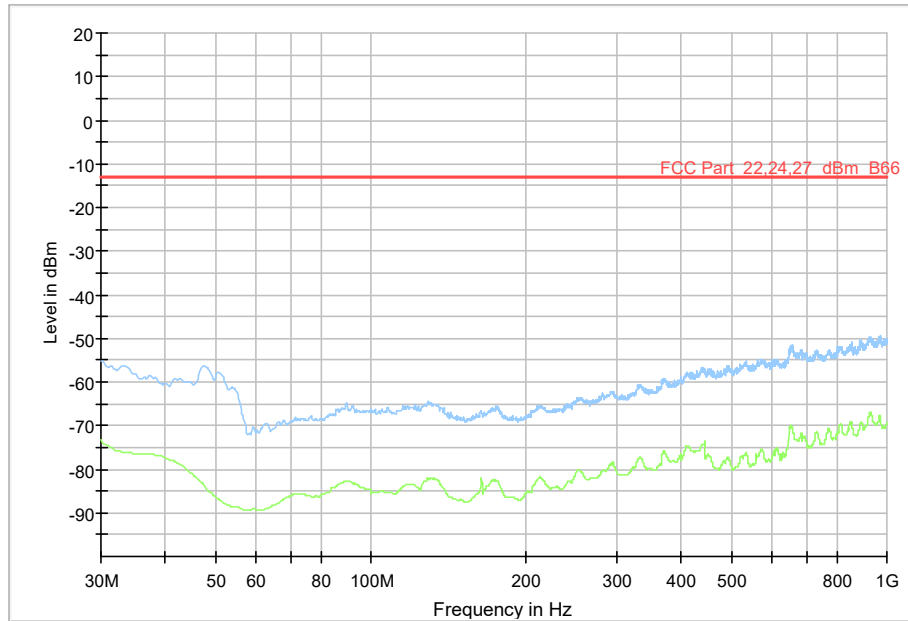
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C12.

Measurement results, RMS

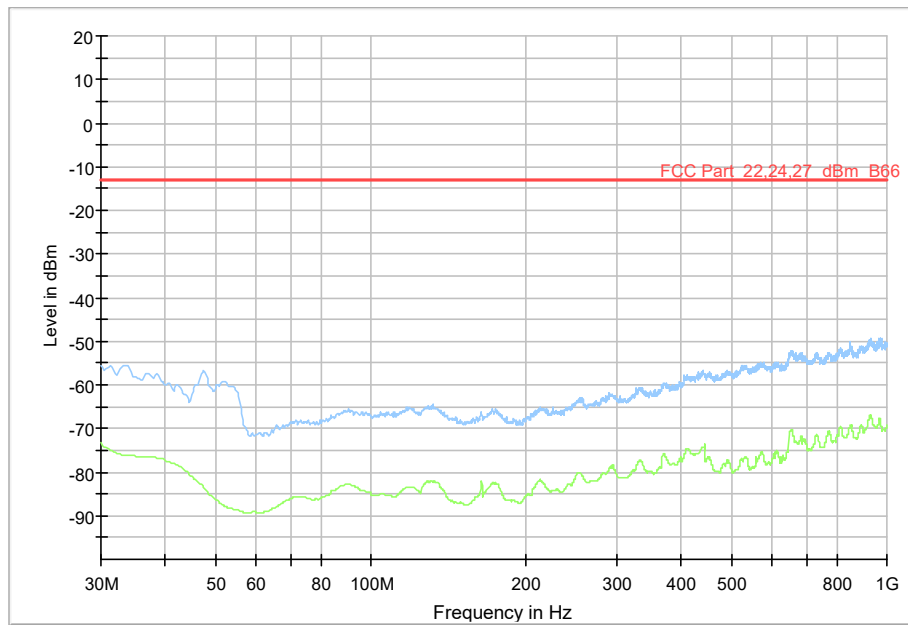
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C13.

Measurement results, RMS

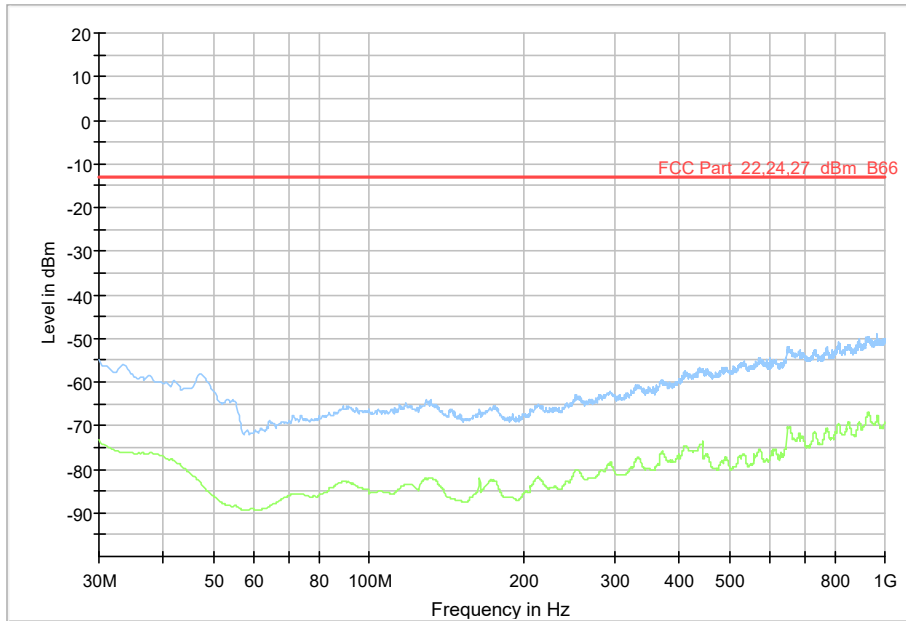
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C14.

Measurement results, RMS

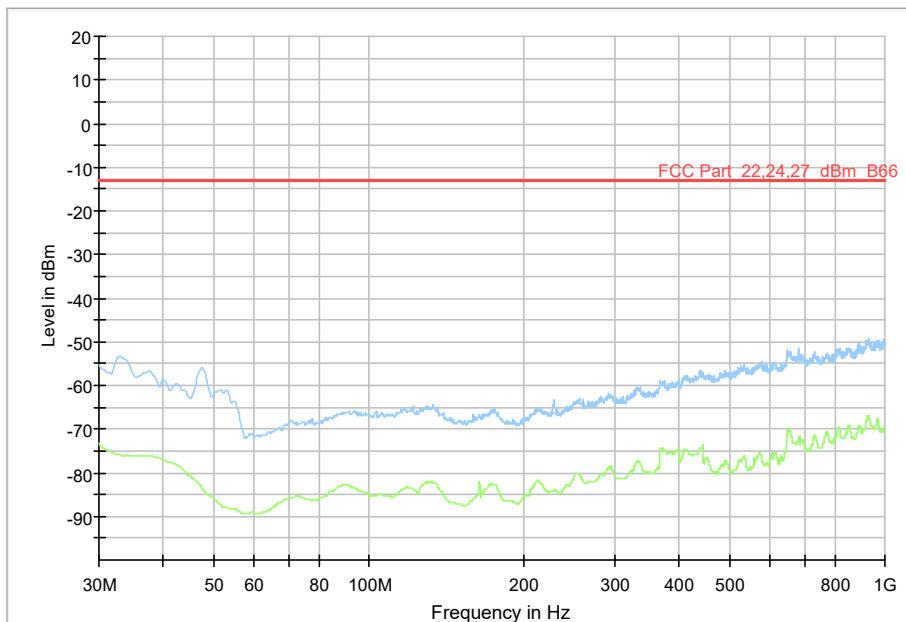
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C15.

Measurement results, RMS

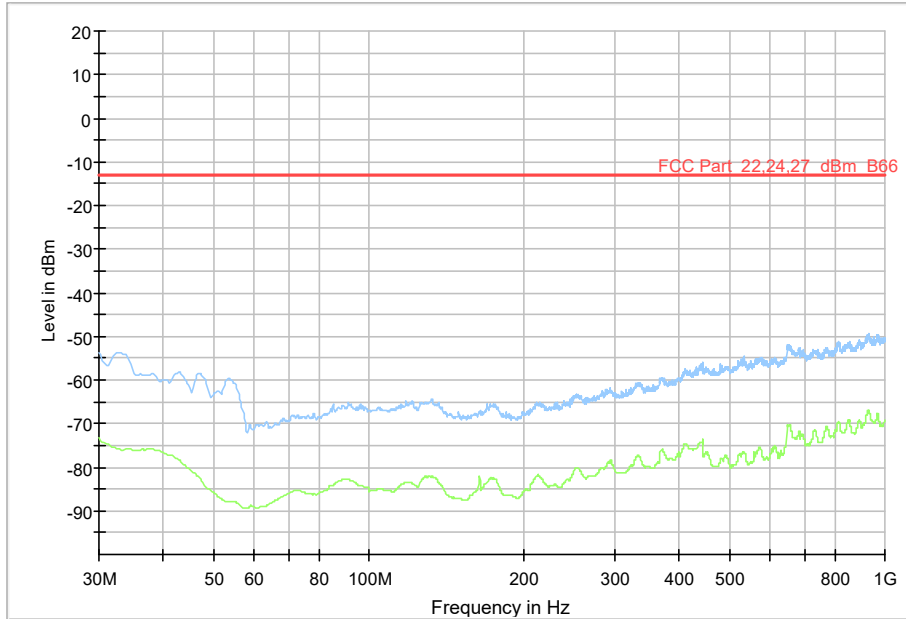
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C16.

Measurement results, RMS

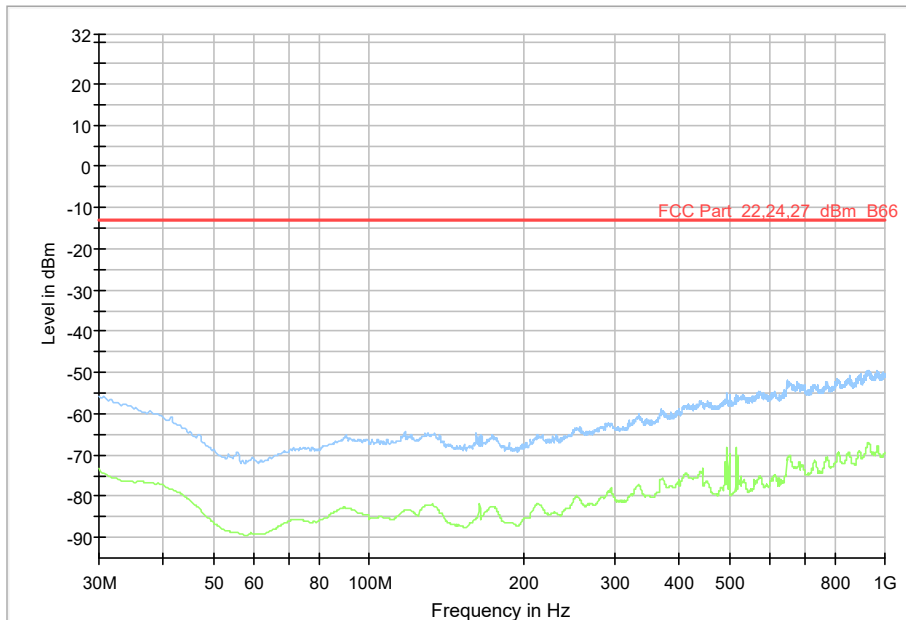
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C17.

Measurement results, RMS

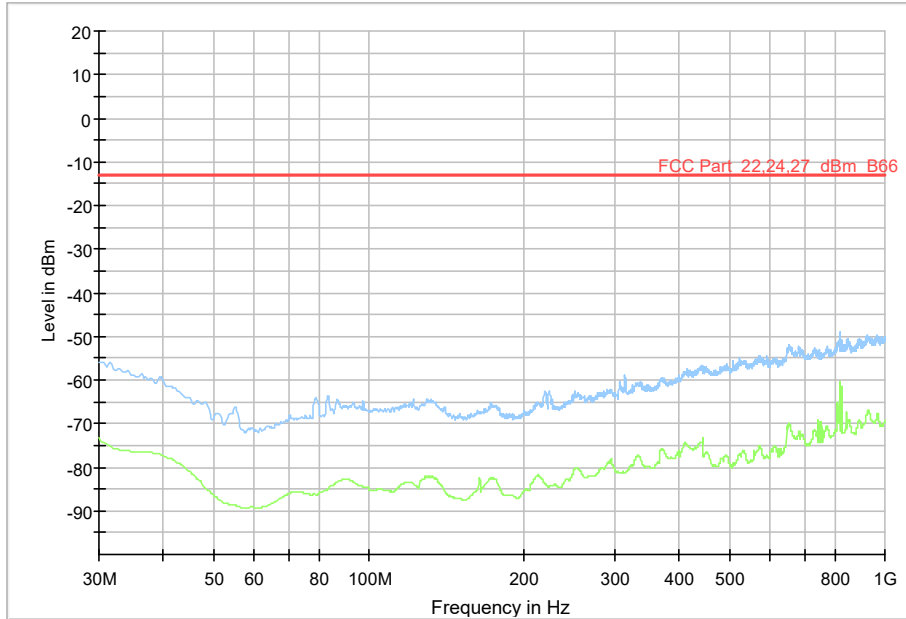
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C18.

Measurement results, RMS

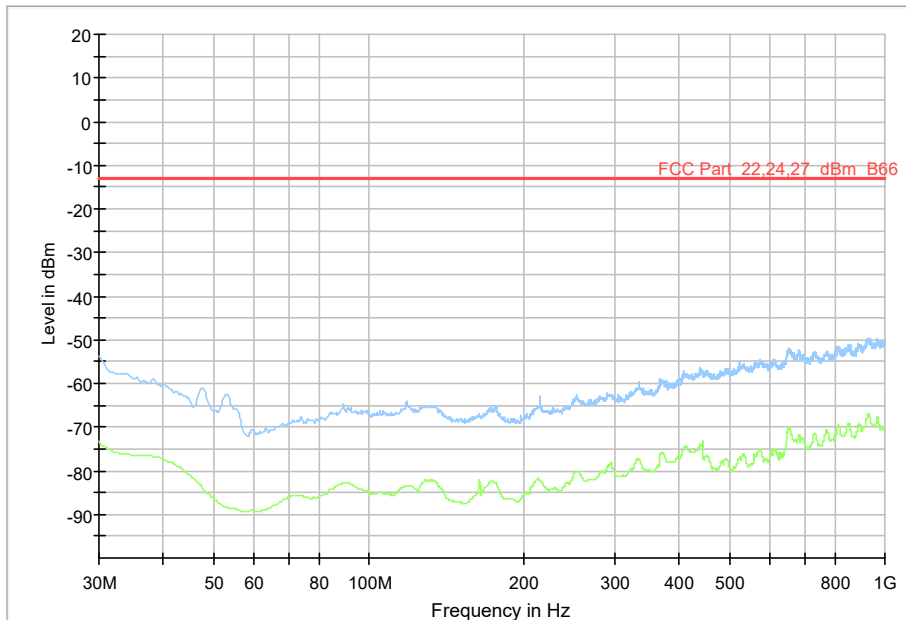
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C19.

Measurement results, RMS

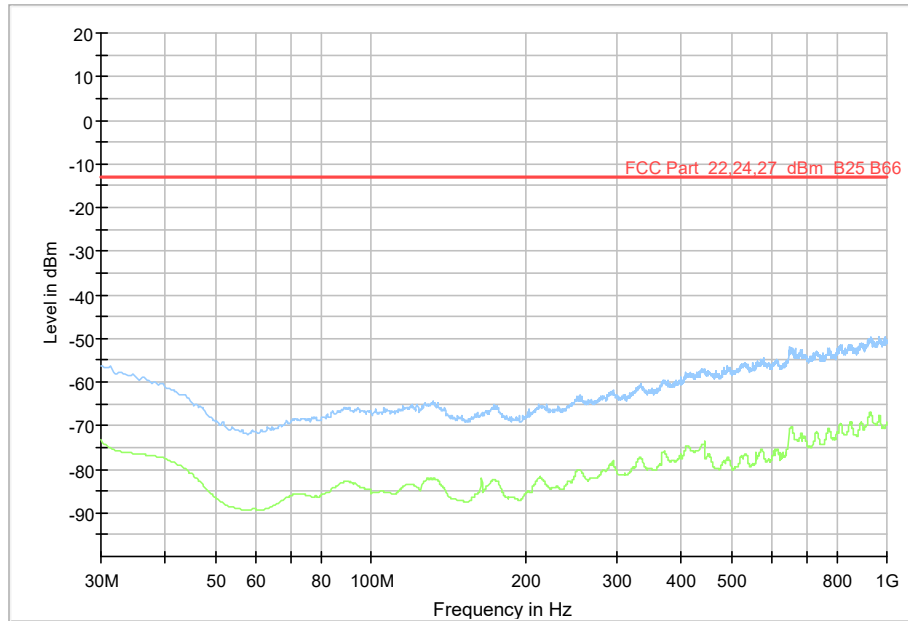
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C20.

Measurement results, RMS

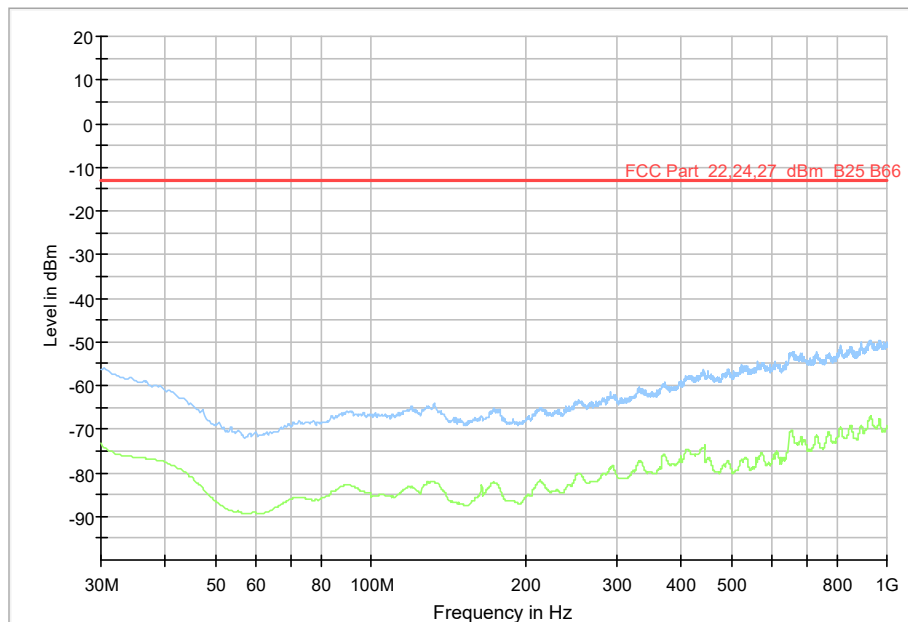
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C21.

Measurement results, RMS

All measured disturbances have a margin of more than 20 dB to the limit.

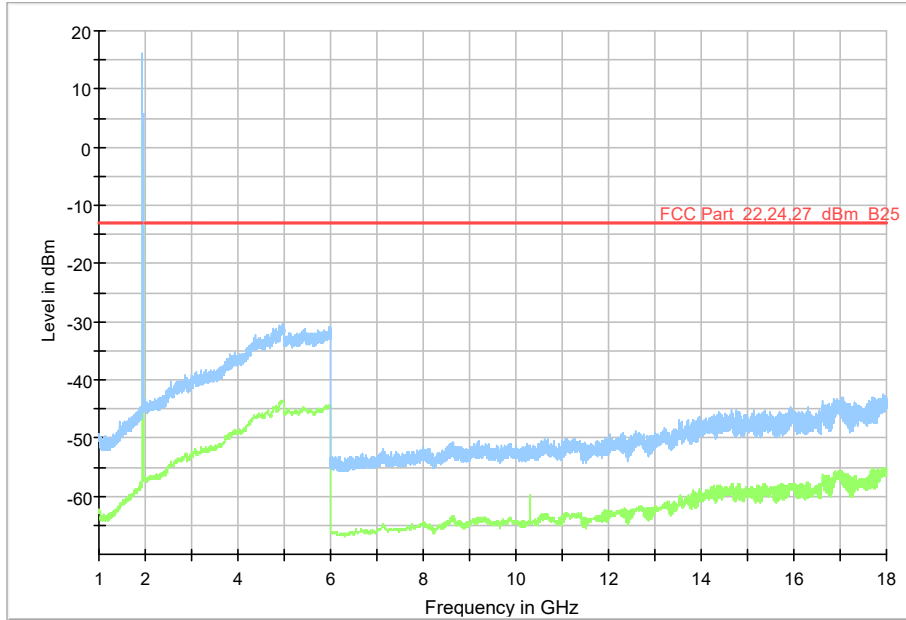


Diagram, Peak and average overview sweep, 30 – 1000 MHz at 3 m distance, configuration C22.

Measurement results, RMS

All measured disturbances have a margin of more than 20 dB to the limit.

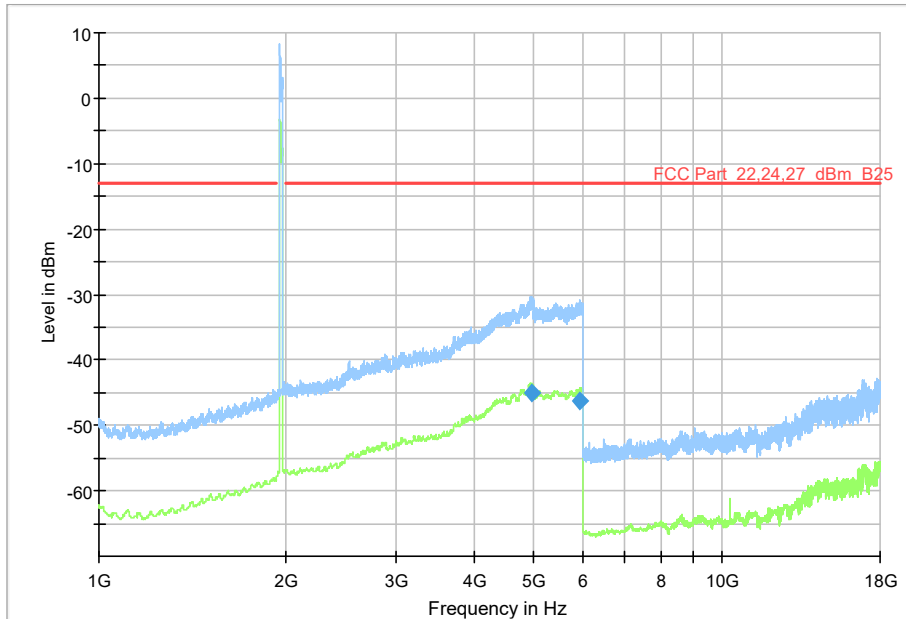
5.4 Test results, 1 – 18 GHz



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C1

Measurement results, RMS

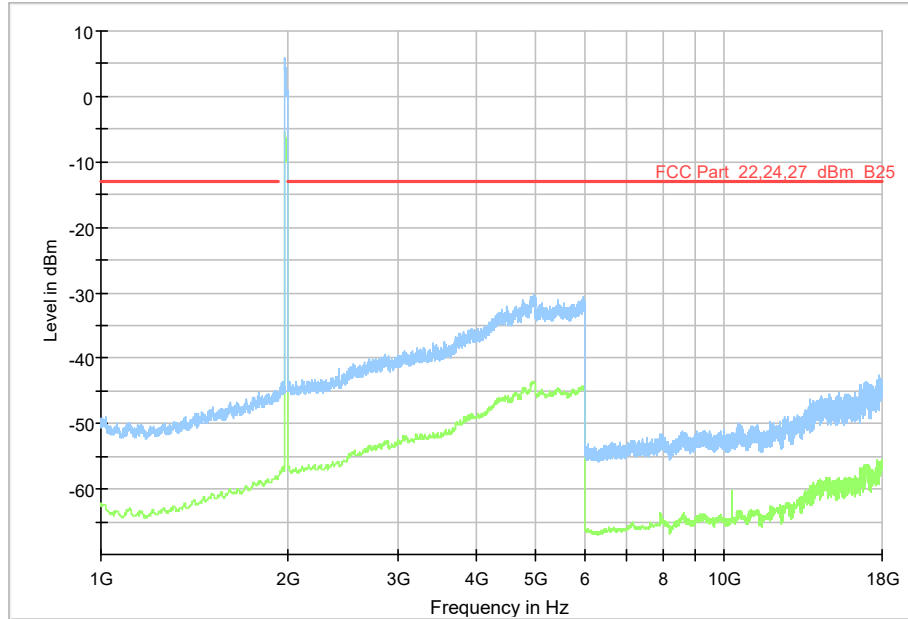
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C2.

Measurement results, RMS

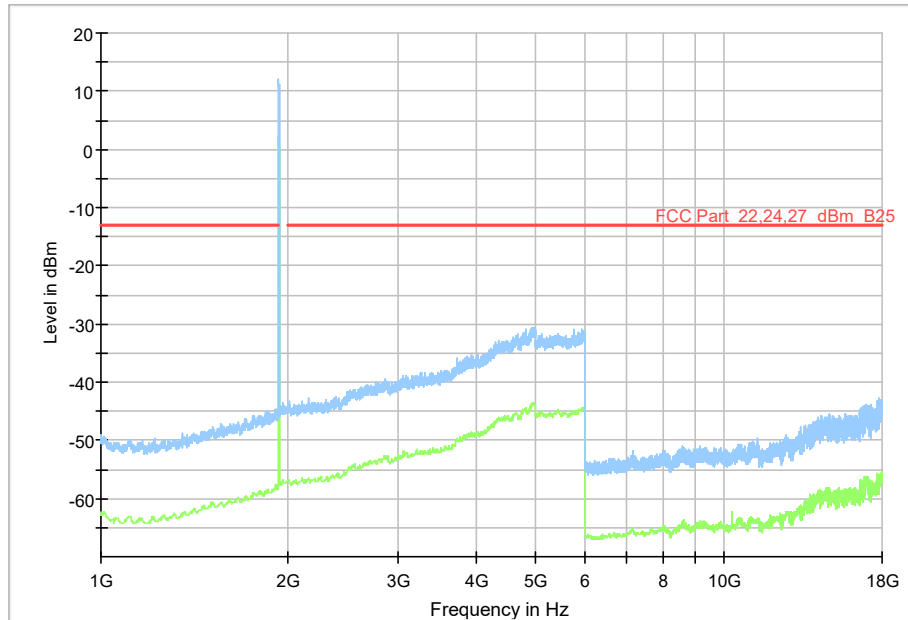
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C3.

Measurement results, RMS

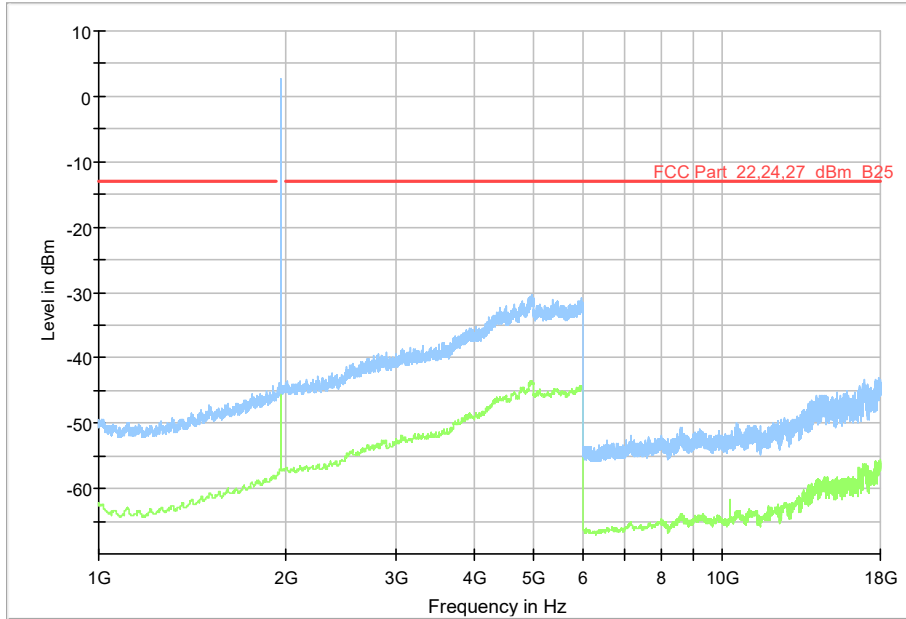
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C4.

Measurement results, RMS

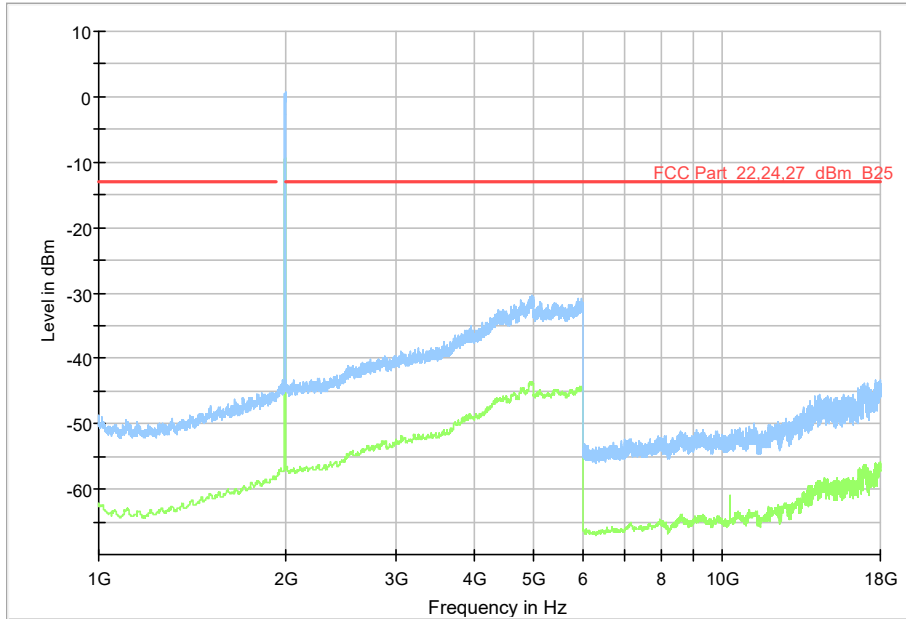
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C5.

Measurement results, RMS

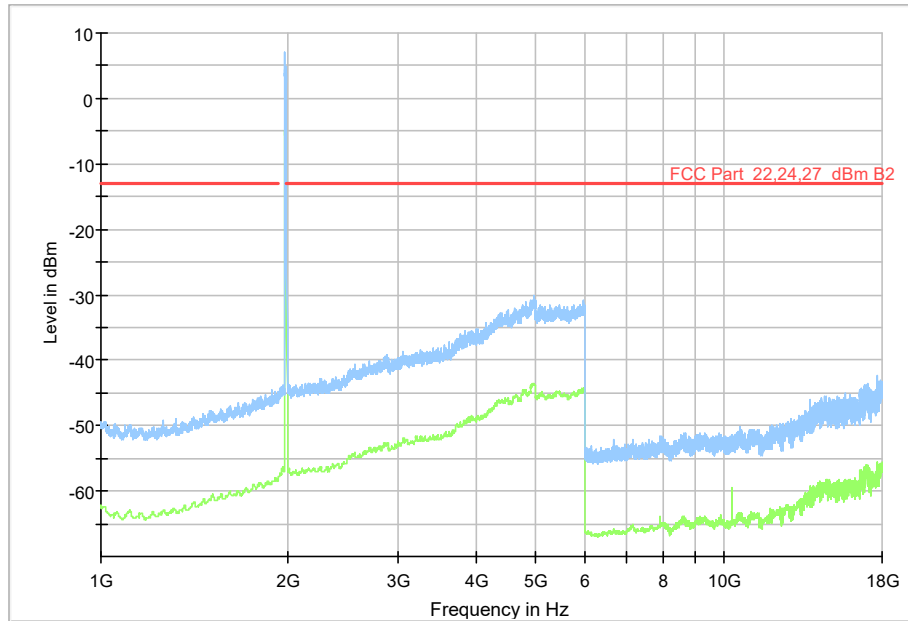
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C6.

Measurement results, RMS

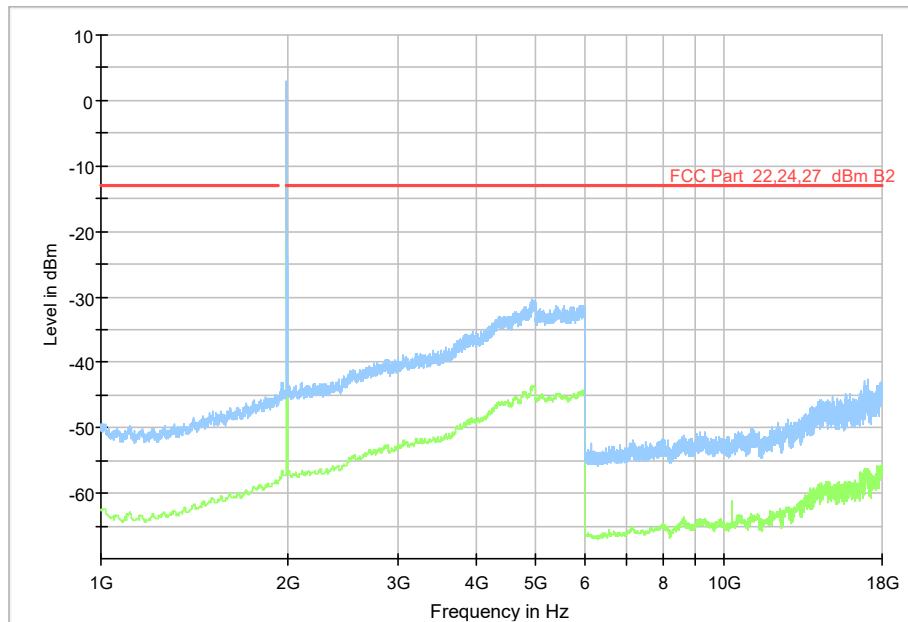
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C7.

Measurement results, RMS

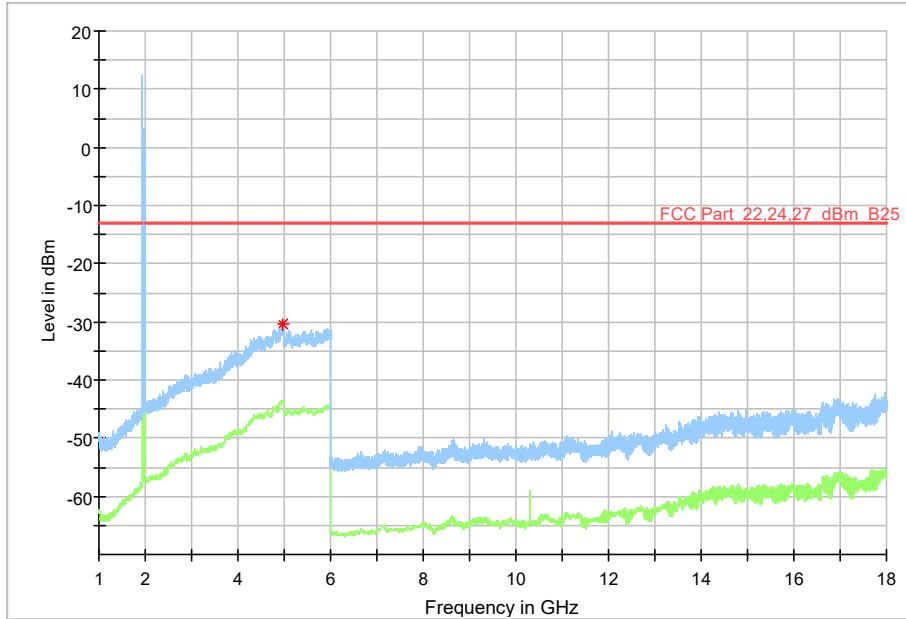
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C8.

Measurement results, RMS

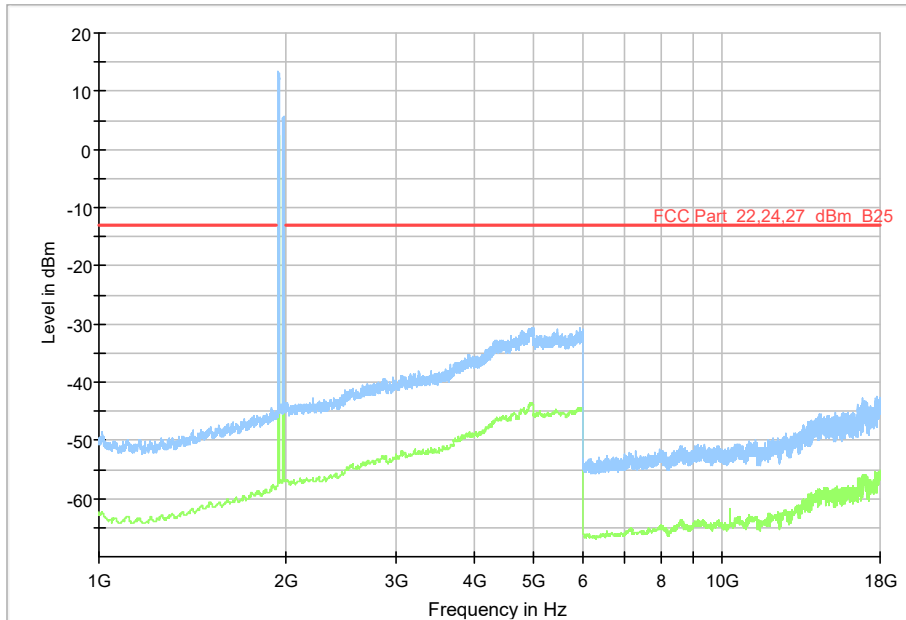
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C9.

Measurement results, RMS

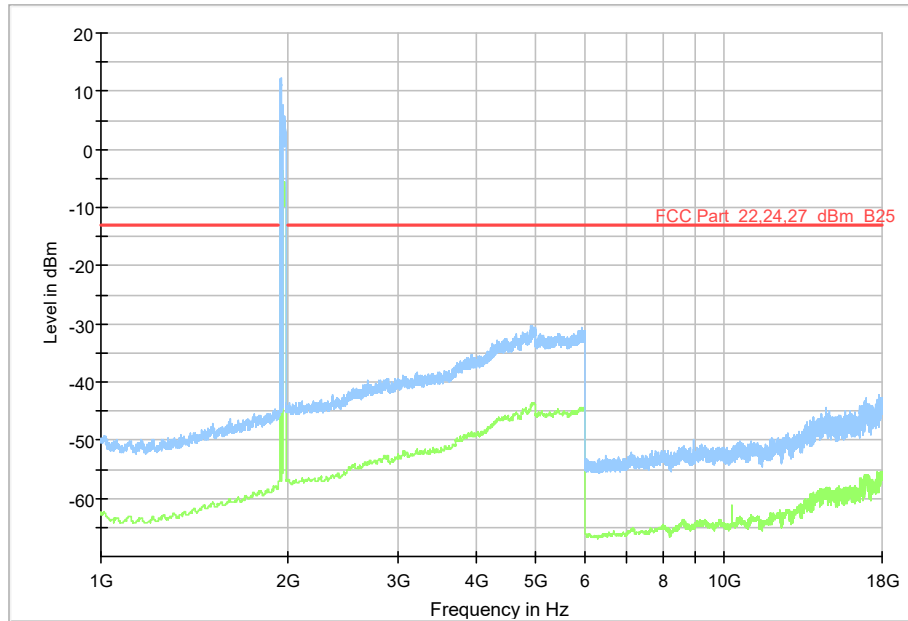
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C10.

Measurement results, RMS

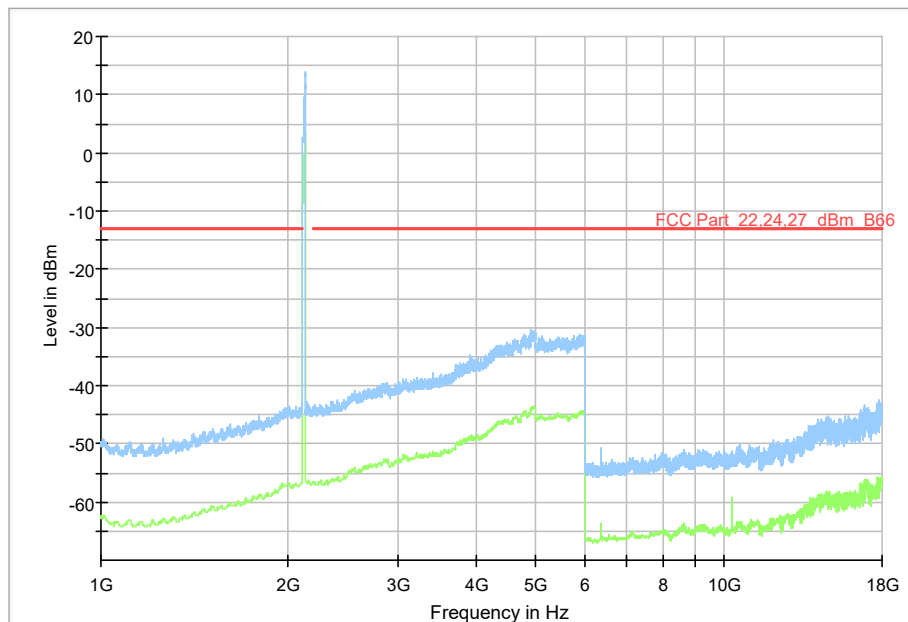
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C11.

Measurement results, RMS

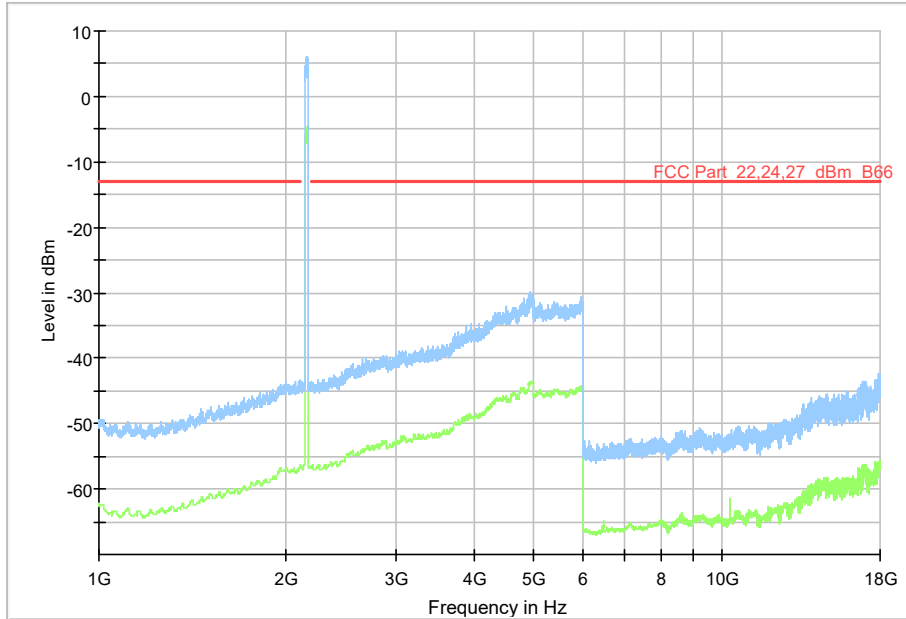
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C12.

Measurement results, RMS

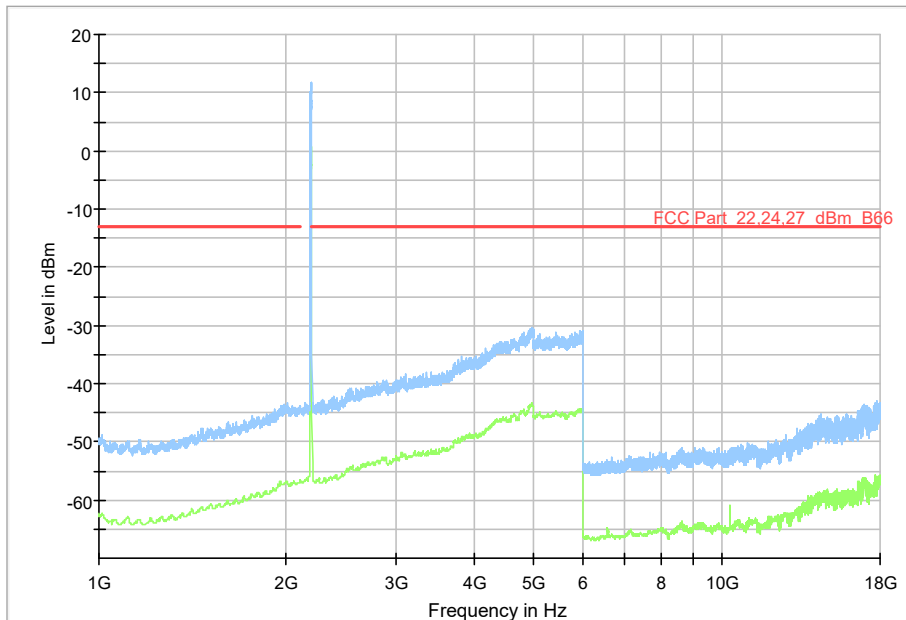
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C13.

Measurement results, RMS

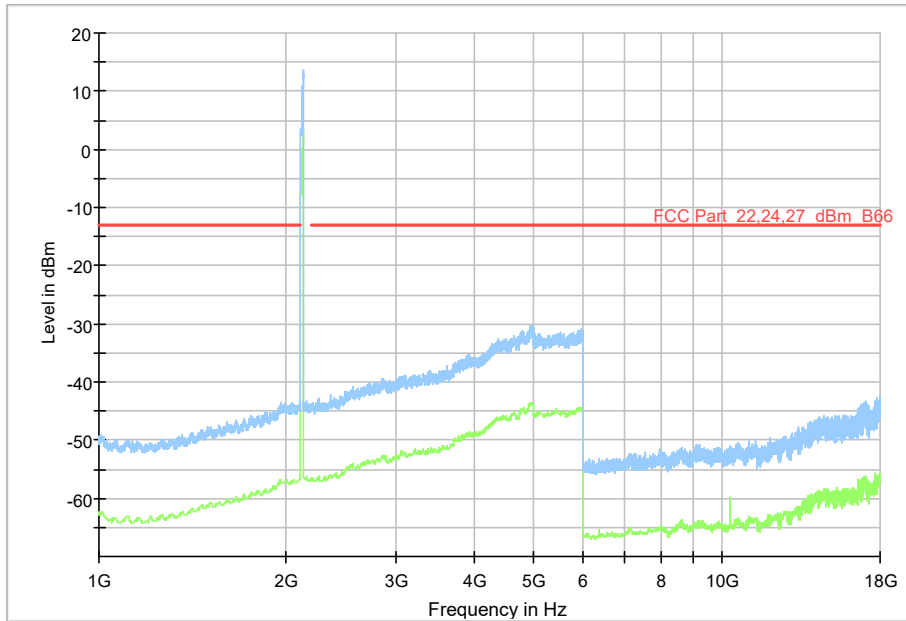
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C14.

Measurement results, RMS

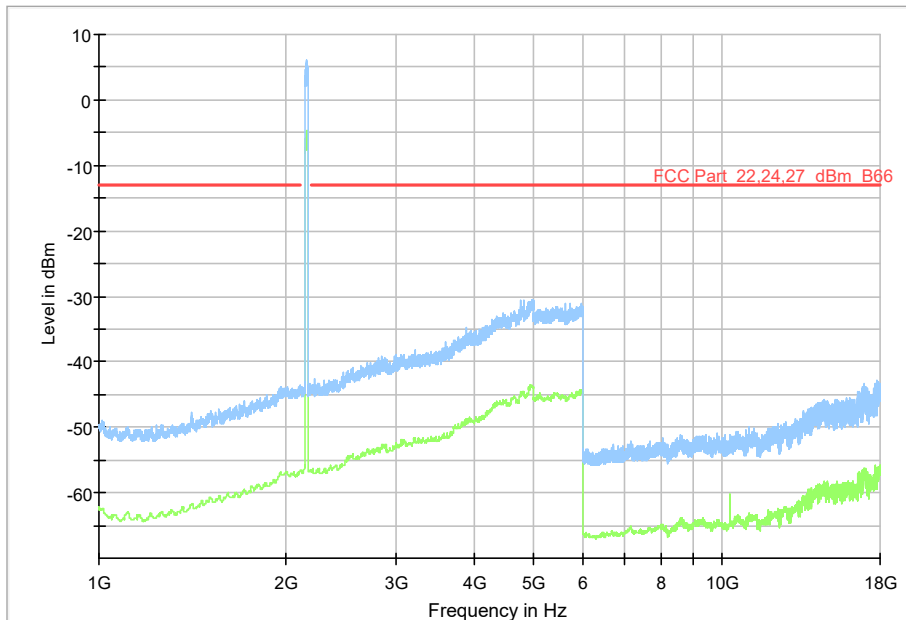
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C15.

Measurement results, RMS

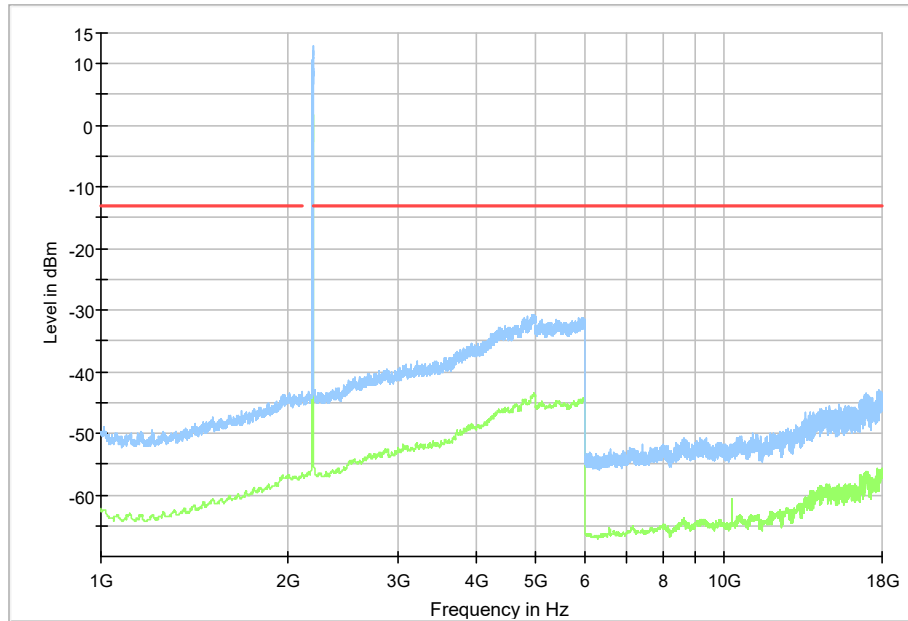
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C16.

Measurement results, RMS

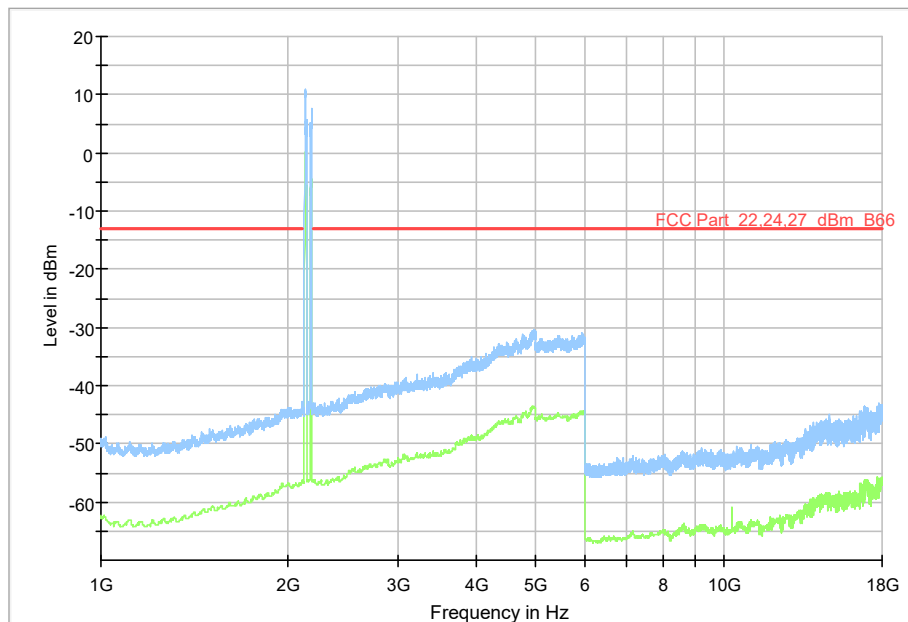
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C17.

Measurement results, RMS

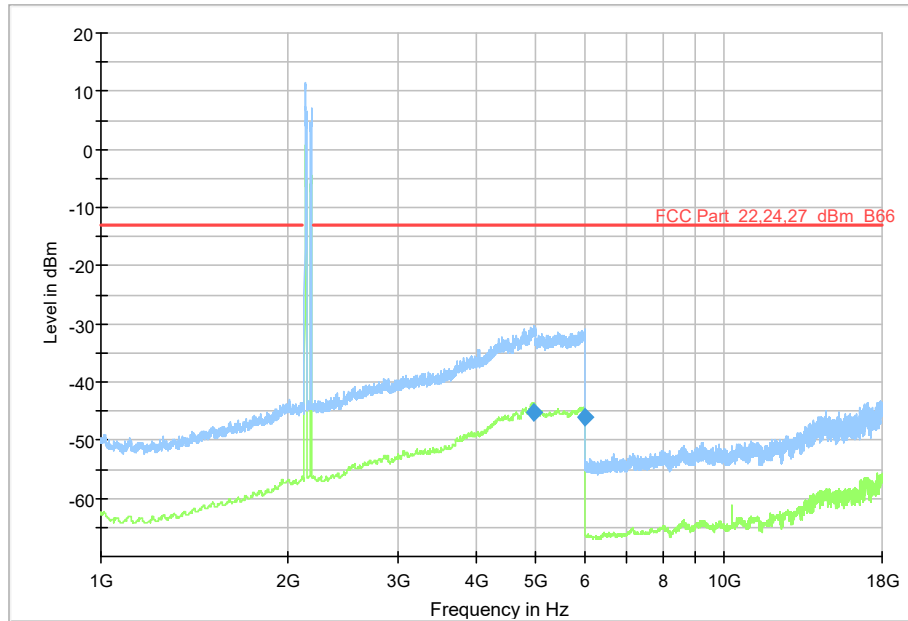
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C18.

Measurement results, RMS

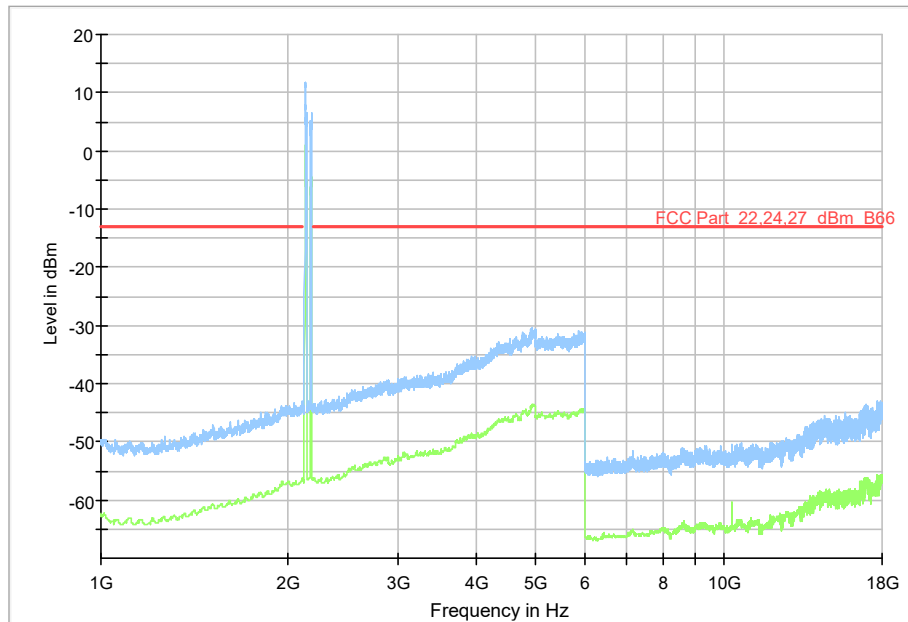
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C19.

Measurement results, RMS

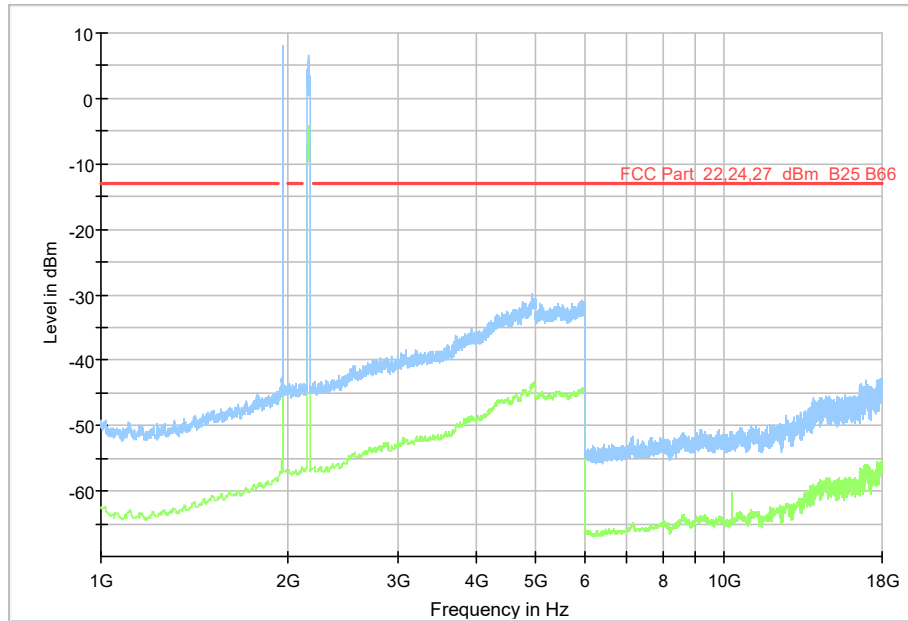
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C20.

Measurement results, RMS

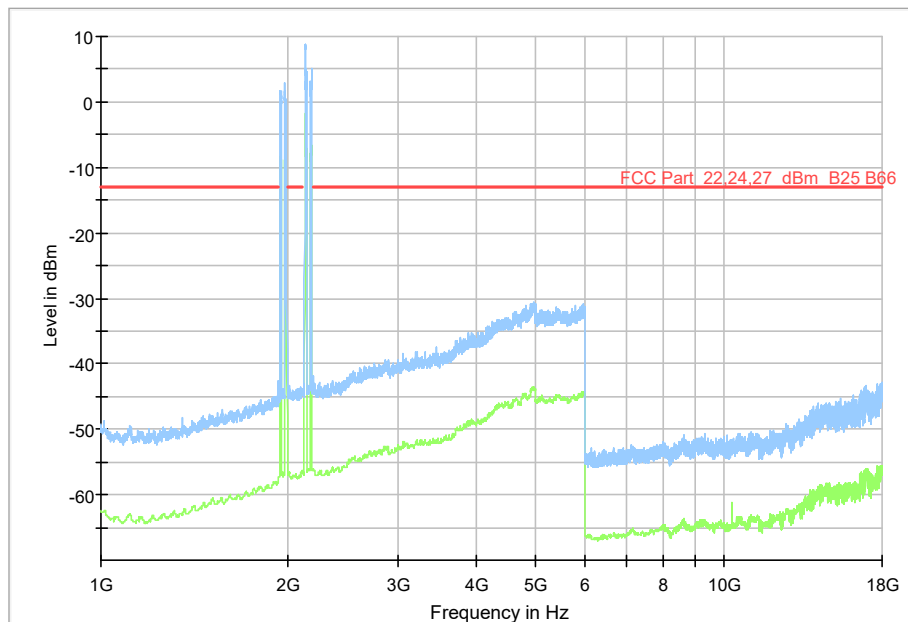
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C21.

Measurement results, RMS

All measured disturbances have a margin of more than 20 dB to the limit.

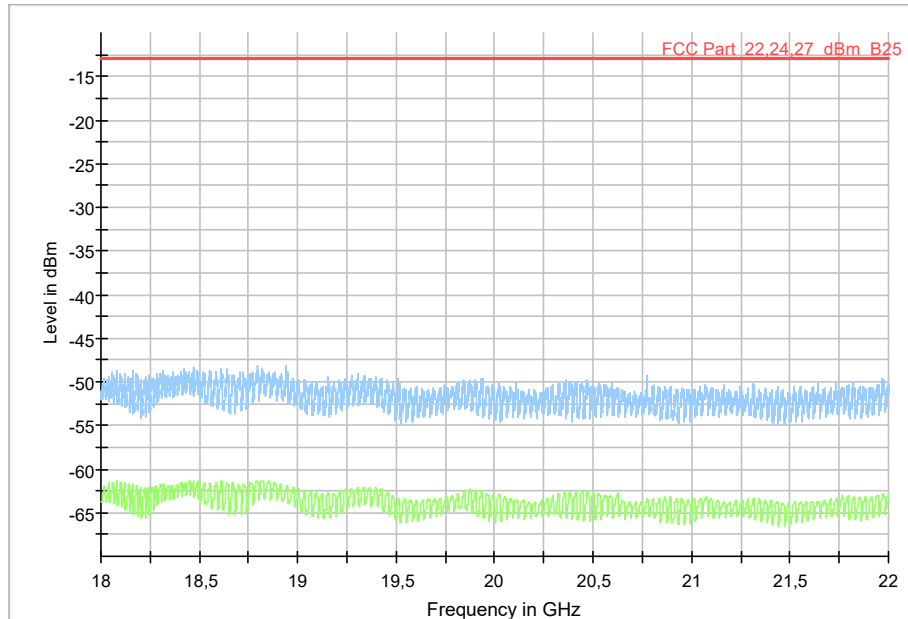


Diagram, Peak and average overview sweep, 1 – 18 GHz at 3 m distance, configuration C22.

Measurement results, RMS

All measured disturbances have a margin of more than 20 dB to the limit.

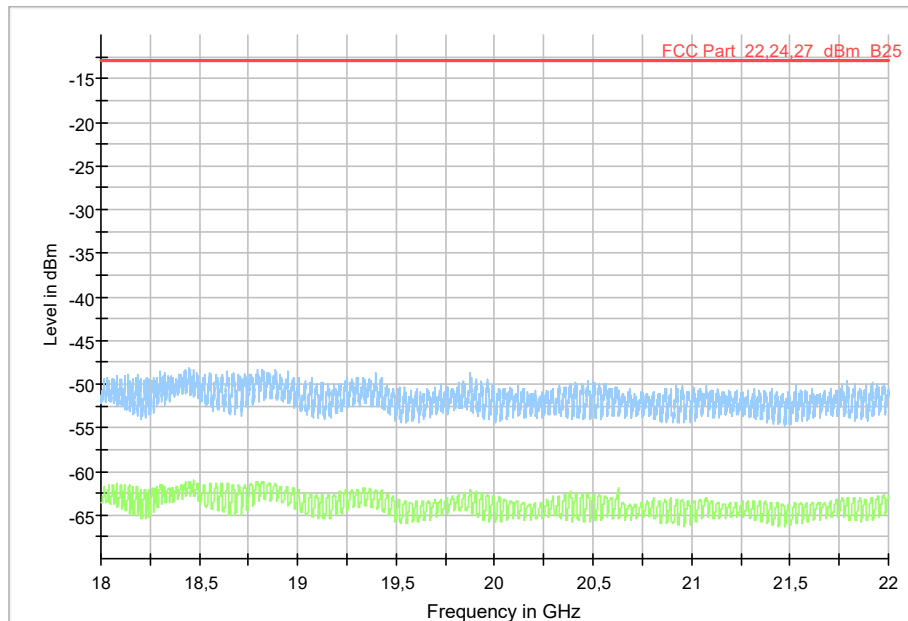
5.5 Test results, 18 – 22 GHz



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C1.

Measurement results, RMS

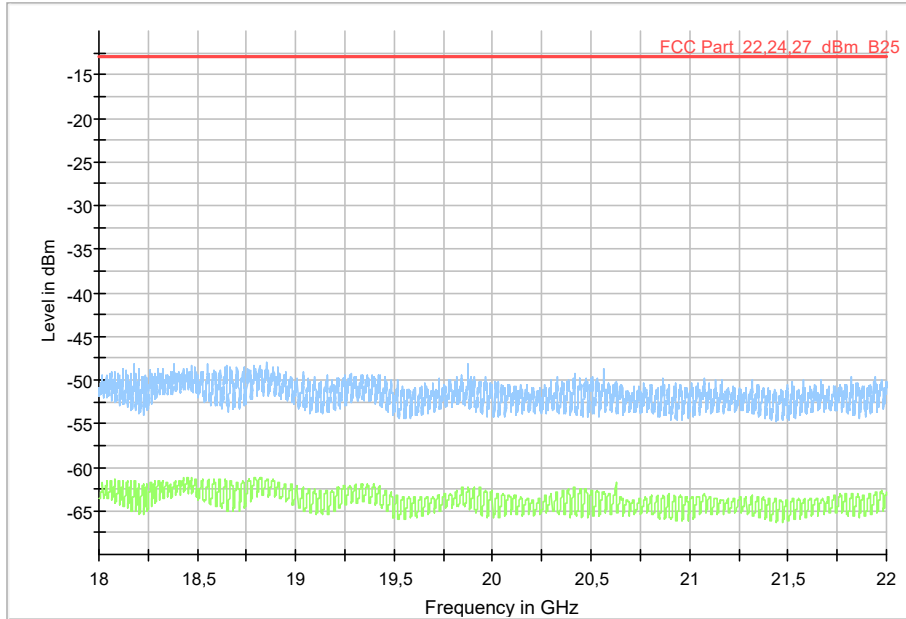
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C2.

Measurement results, RMS

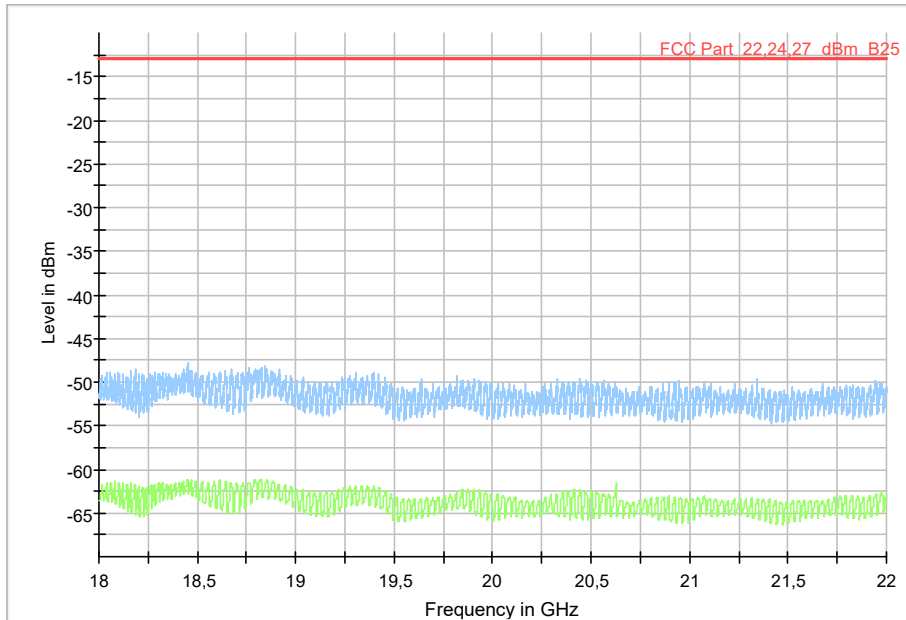
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C3.

Measurement results, RMS

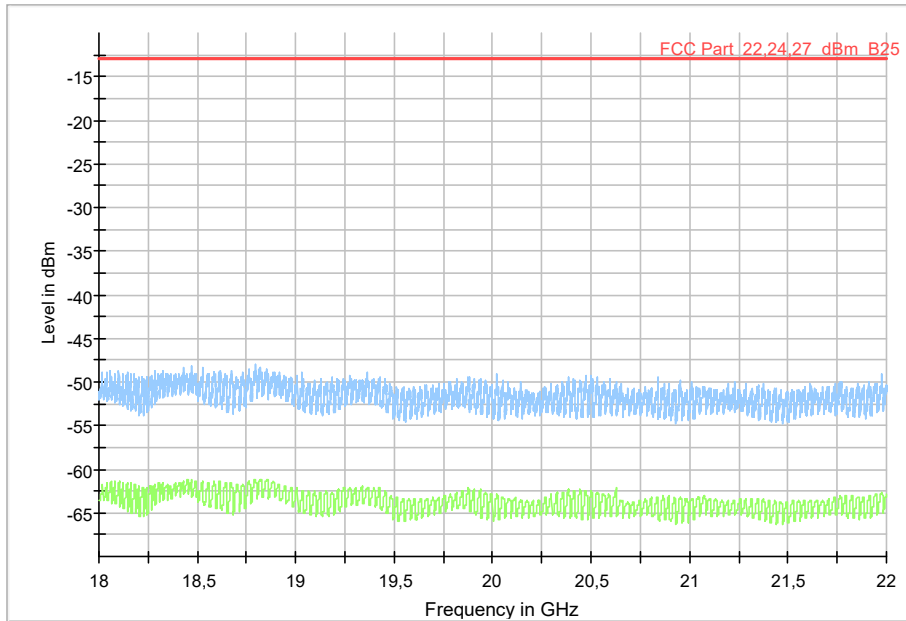
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C4.

Measurement results, RMS

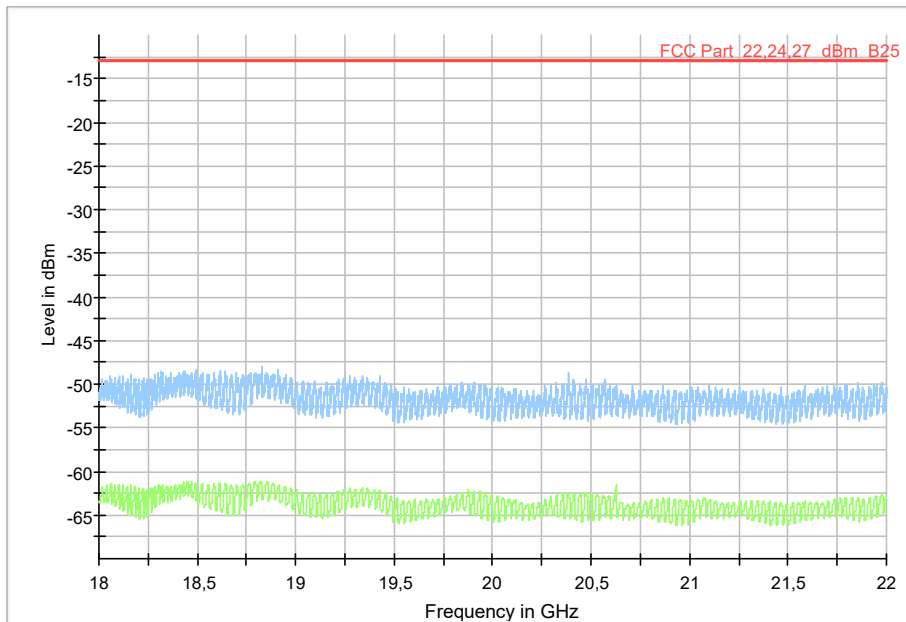
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C5.

Measurement results, RMS

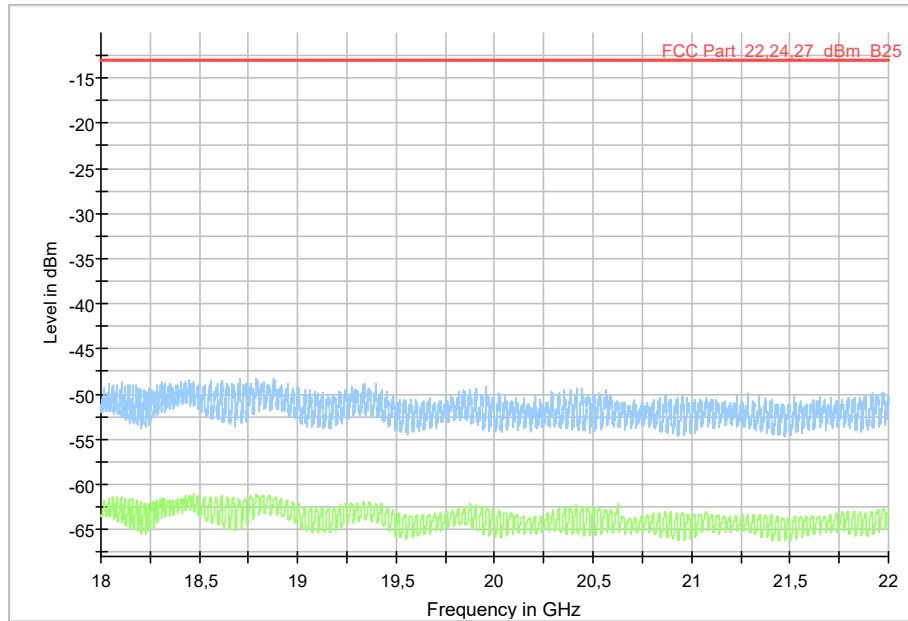
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C6.

Measurement results, RMS

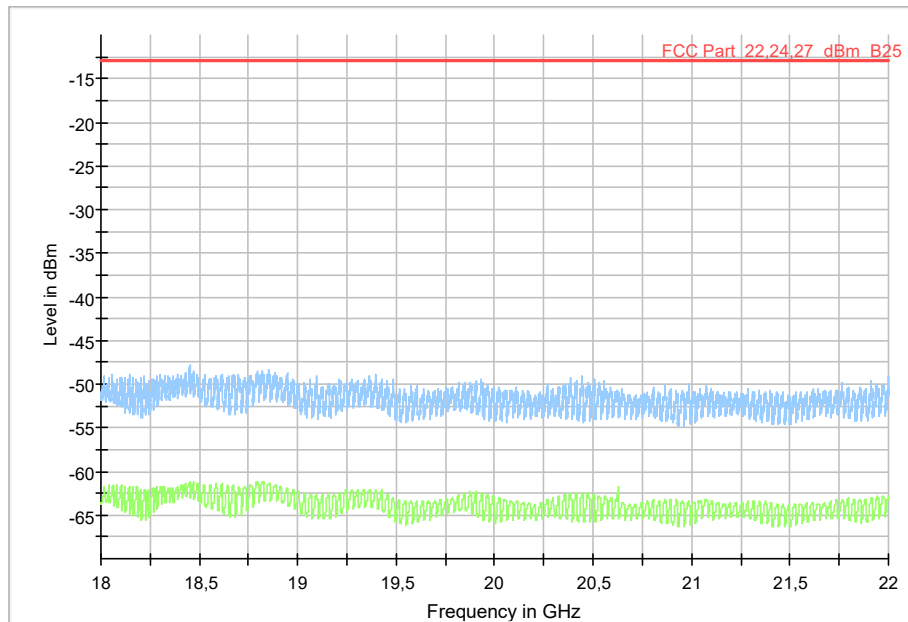
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C7.

Measurement results, RMS

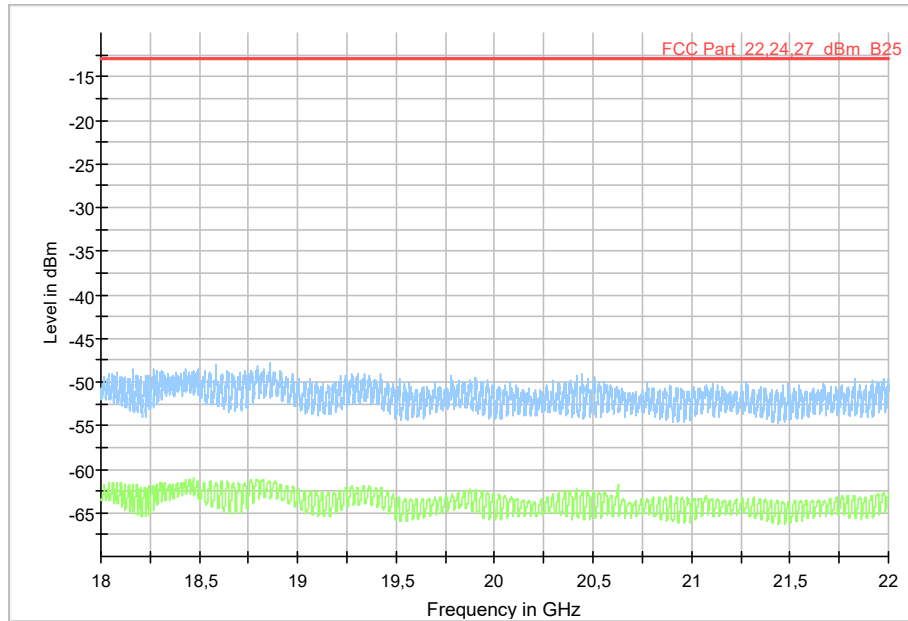
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C8.

Measurement results, RMS

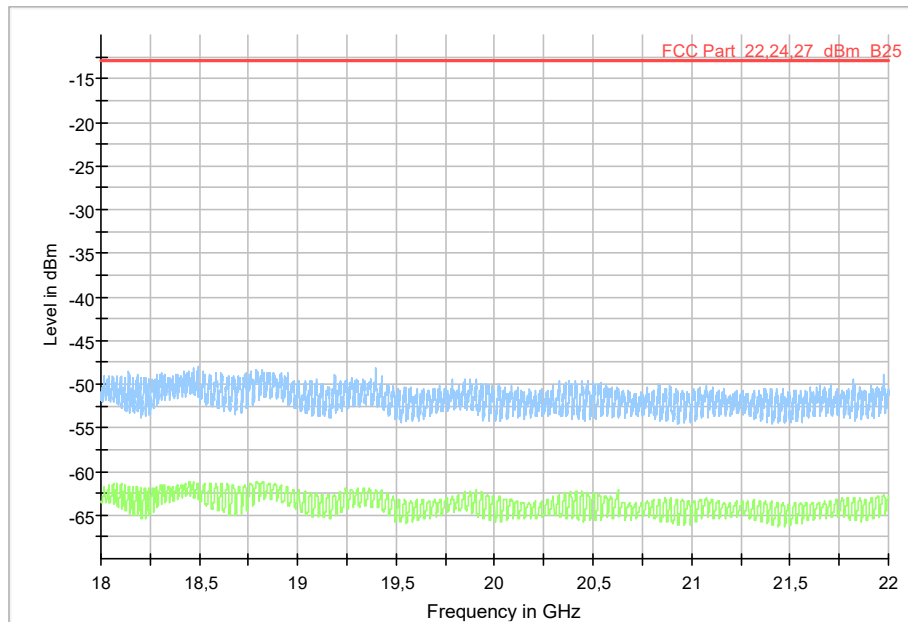
All measured disturbances have a margin of more than 20 dB to the limit.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C9.

Measurement results, RMS

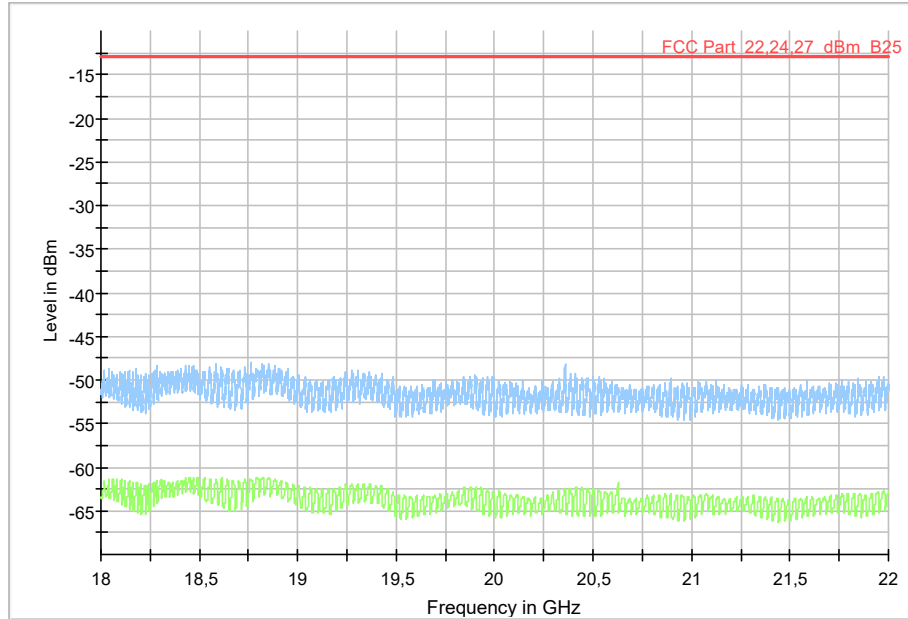
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C10.

Measurement results, RMS

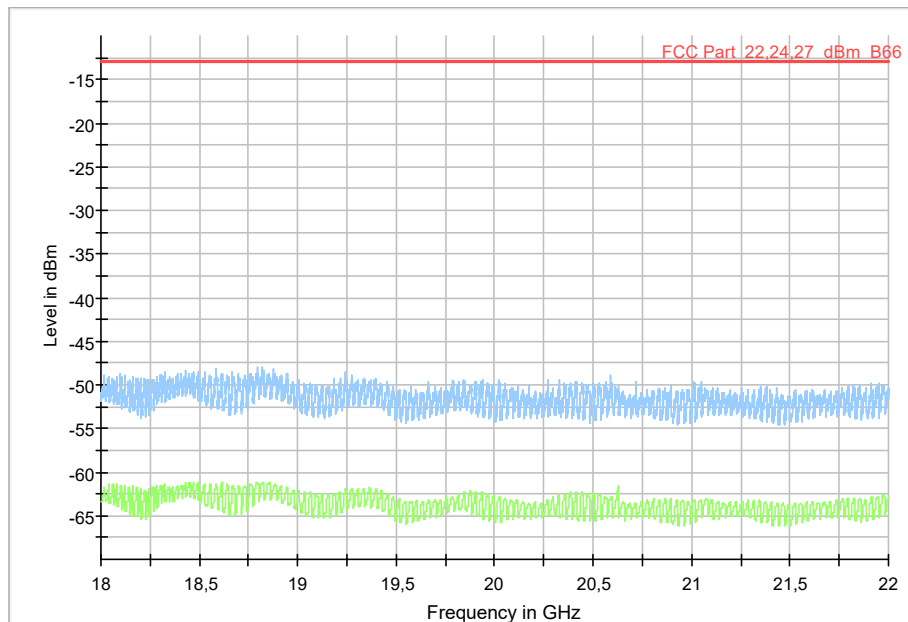
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C11.

Measurement results, RMS

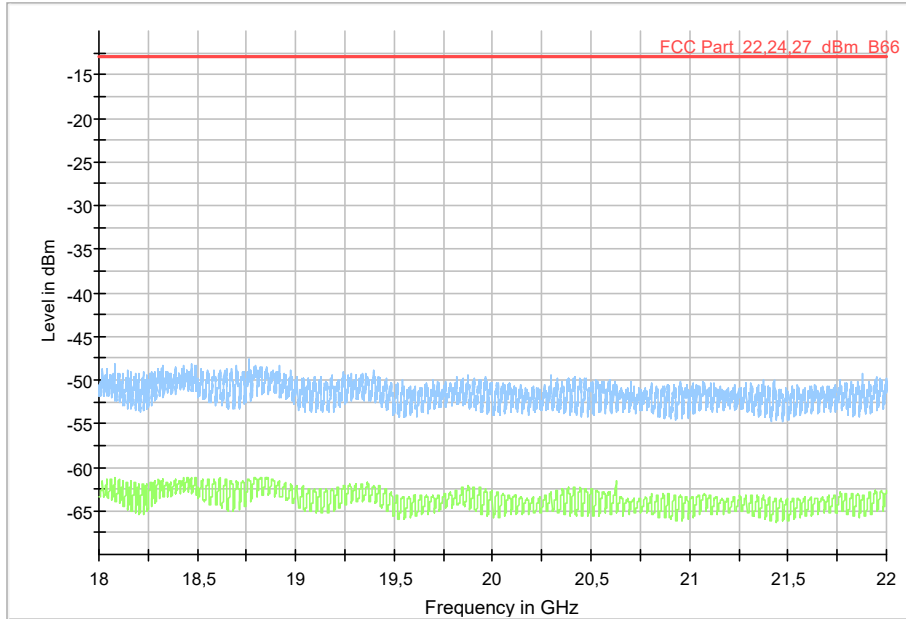
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C12.

Measurement results, RMS

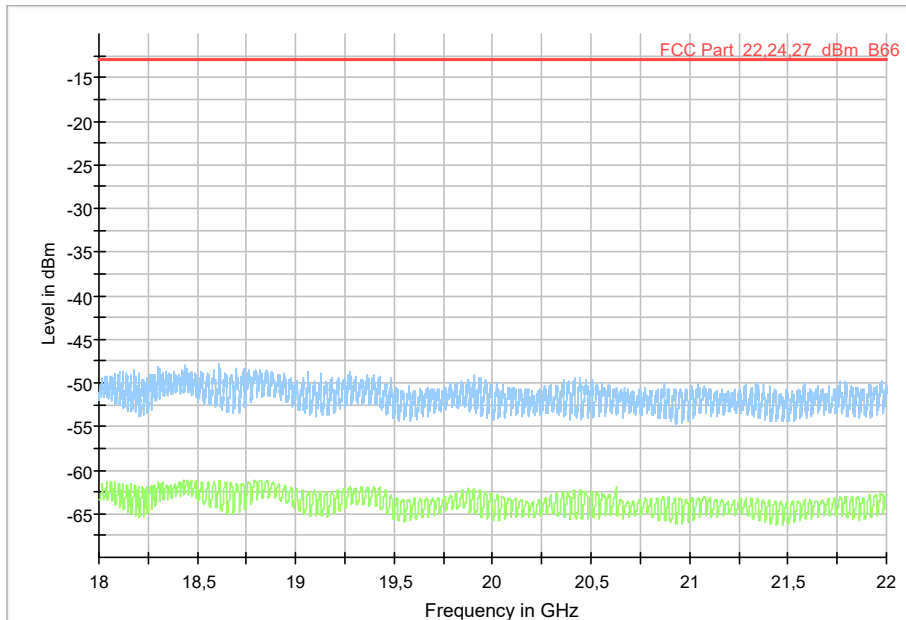
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C13.

Measurement results, RMS

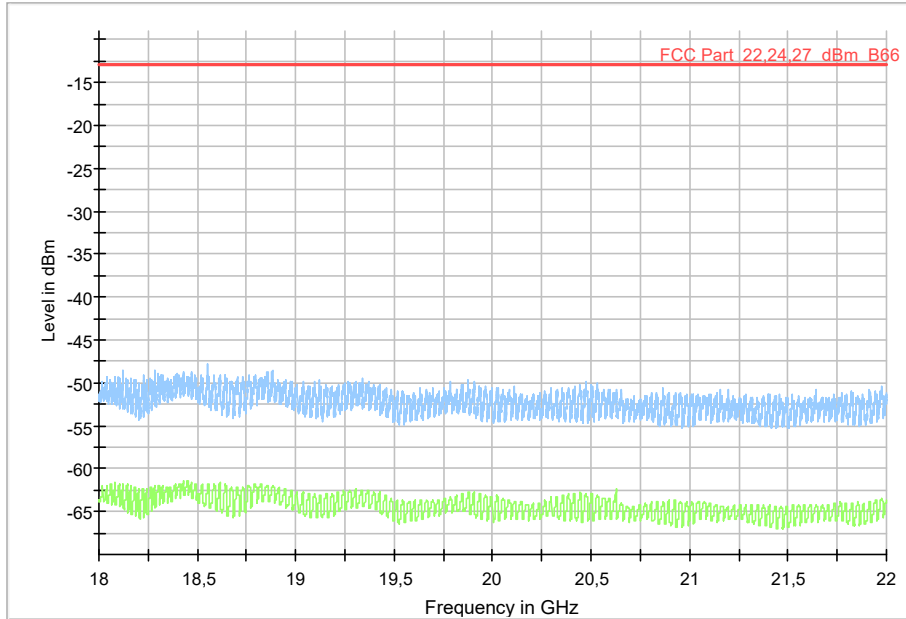
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C14.

Measurement results, RMS

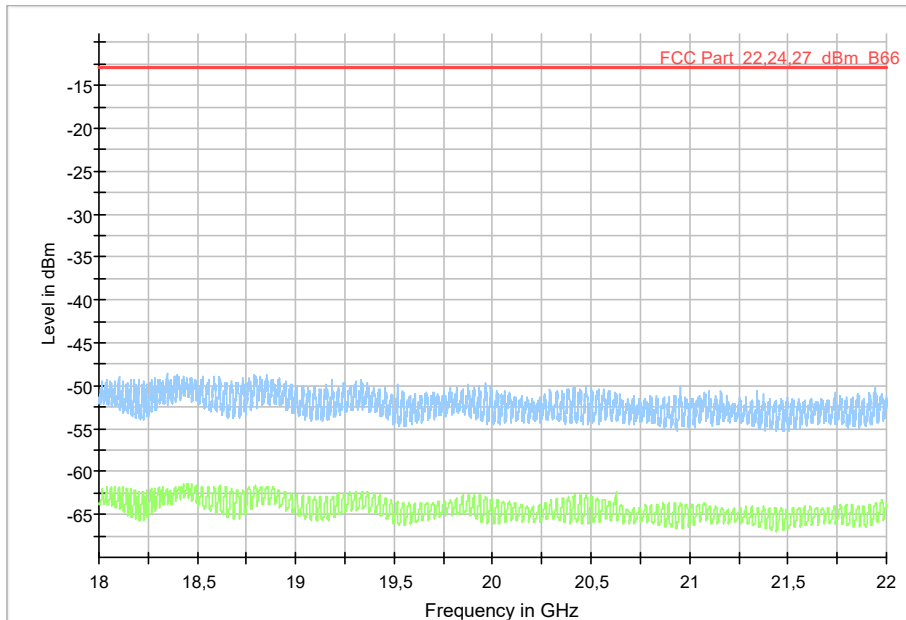
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C15.

Measurement results, RMS

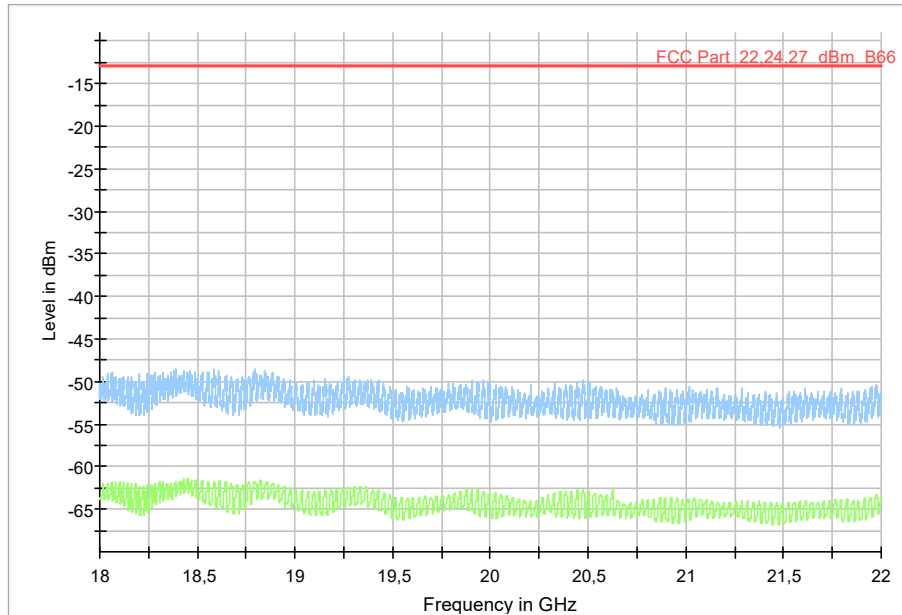
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C16.

Measurement results, RMS

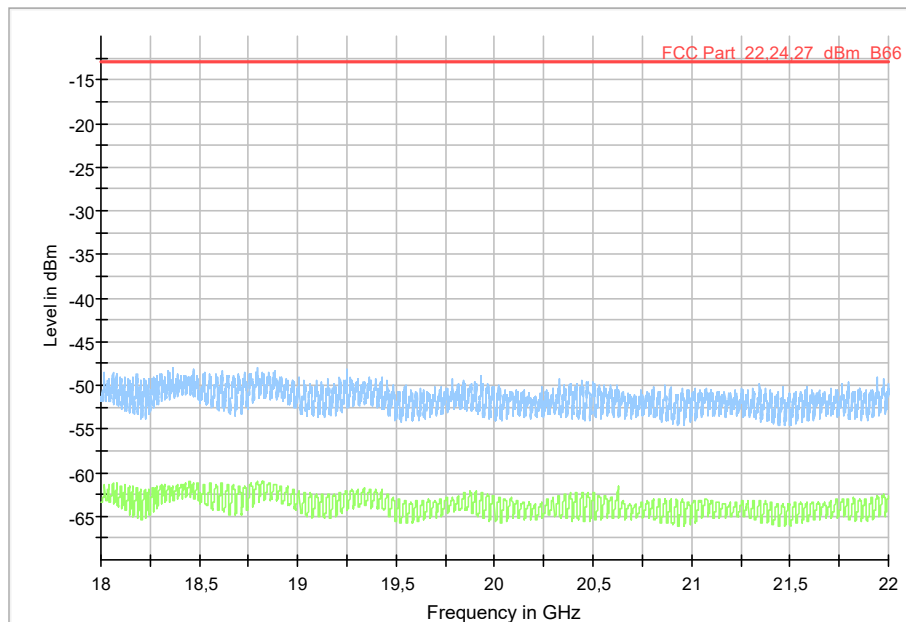
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C17.

Measurement results, RMS

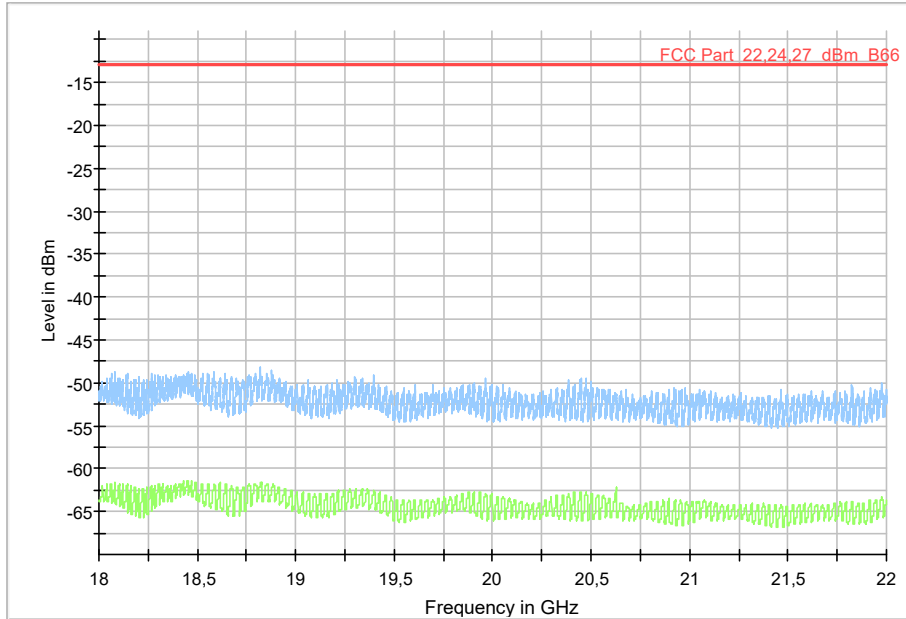
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C18.

Measurement results, RMS

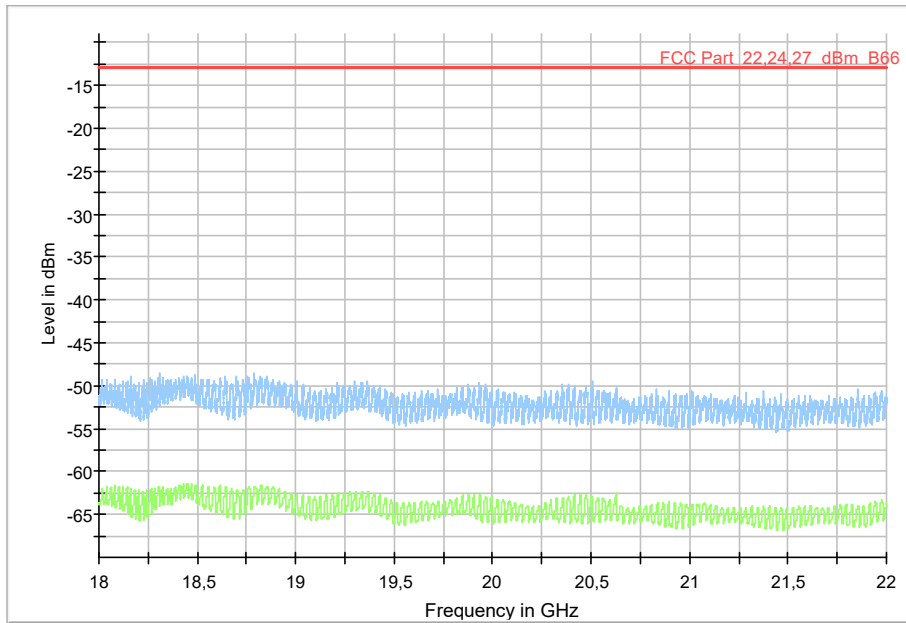
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C19.

Measurement results, RMS

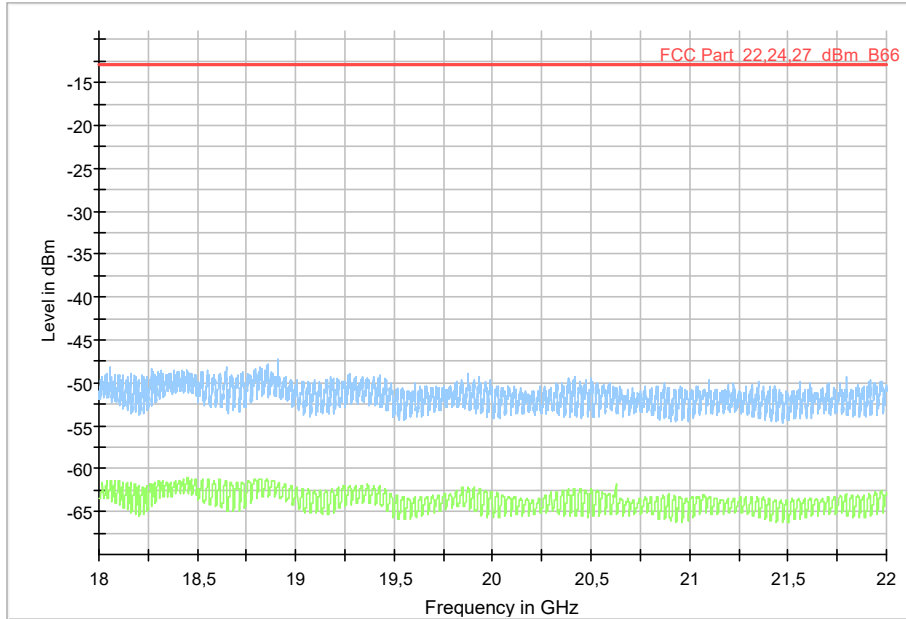
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C20.

Measurement results, RMS

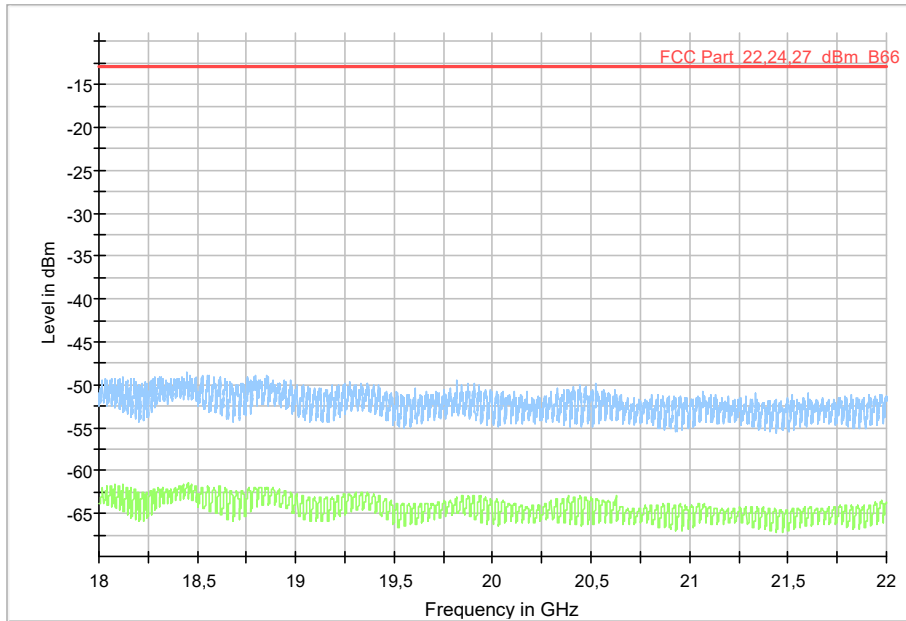
Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C21.

Measurement results, RMS

Only noise detected.



Diagram, Peak and average overview sweep, 18 – 22 GHz at 3 m distance, configuration C22.

Measurement results, RMS

Only noise detected.

6. TEST EQUIPMENT

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Next Cal. date
Measurement software	Rohde & Schwarz	EMC32 – 11.60.00	--	--	--
Measurement Receiver	Rohde & Schwarz	ESW44	33950	July 2, 2024	1 year
Open switch and control platform	Rohde & Schwarz	OSP130	32298	December 13, 2023	1 year
Open switch and control platform	Rohde & Schwarz	OSP-F7-B	32299	December 13, 2023	1 year
Coaxial cable	Schuner	SUCOFLEX 104	39003	October 25, 2023	1 year
Antenna	Rohde & Schwarz	HL562	30711	March 12, 2024	2 years
Rotary join	Spinner	BN835027	31807	October 25, 2023	1 year
Coaxial cable	Rosenberger	JFB293C	39141	June 1, 2024	1 year
Coaxial cable	Rosenberger	JFB293C	39142	June 1, 2024	1 year
Horn antenna with Preamplifier Signal path	Rohde & Schwarz	HF907 TS-PRE1 EMI	39150: 32296 32297	July 4, 2024	1 years
Signal path	Rohde & Schwarz	EMI	39150	December 13 2023	1 year
Horn antenna	Bonn	BLMA 1826-5A	31247	September 13, 2023	3 years
Coaxial cable	MEGAPHASE	GC12-K1K1-315	39128	July 2,2024	1 year
Coaxial cable	MEGAPHASE	GC12-K1K1-149	39233	July 2,2024	1 year

7. EUT SOFTWARE

Software radio: CXP 202 1151/1 R21A984

8. EUT HARDWARE LIST

Product	Product No,	R-State	Serial Number
AIR 3283 B25 B66	KRD 901 892/2	R1C	E23F529480
SFP module Ericsson	RDH 102 75/3	R1A	CU82116QB6
SFP module Sumitomo	RDH 102 75/3	R1A	9XT704900141

9. PHOTOS OF THE EUT AND TEST SET UP

Test set up photos are also in the separate document 2310419STO-102 Annex 1