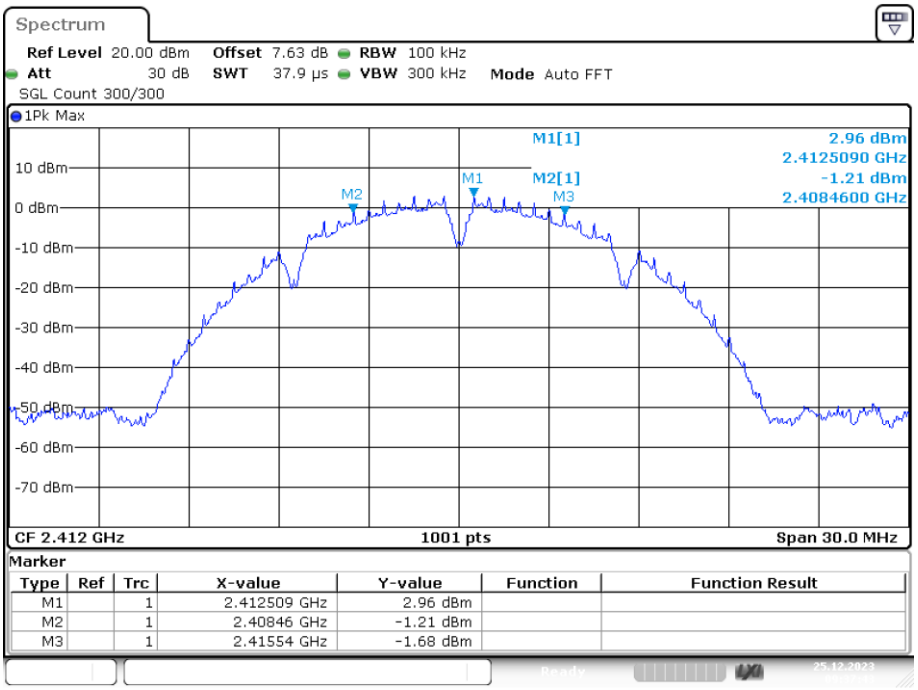
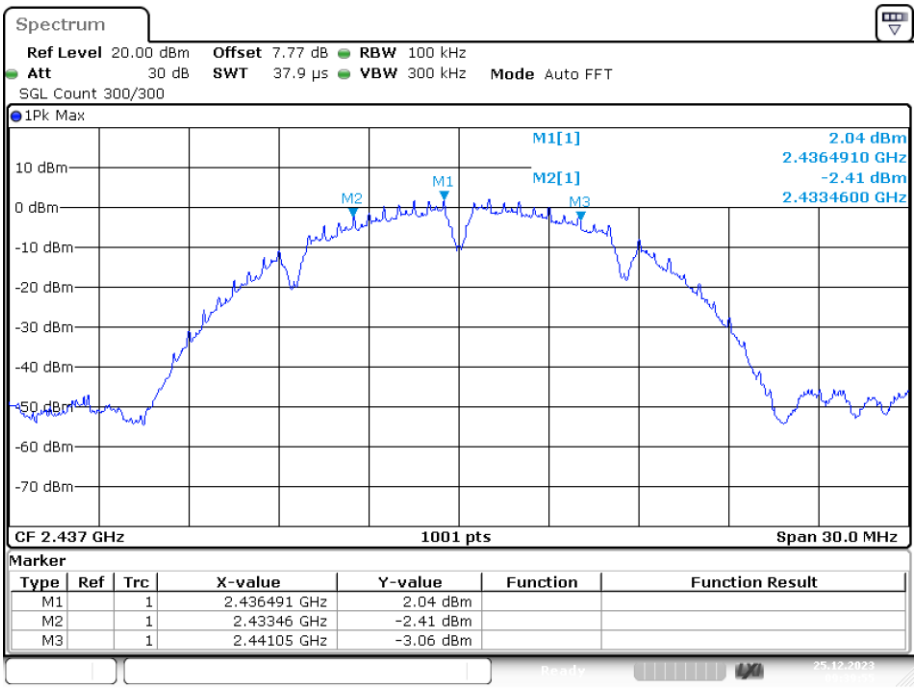
-6dB Bandwidth NVNT b 2412MHz Ant1



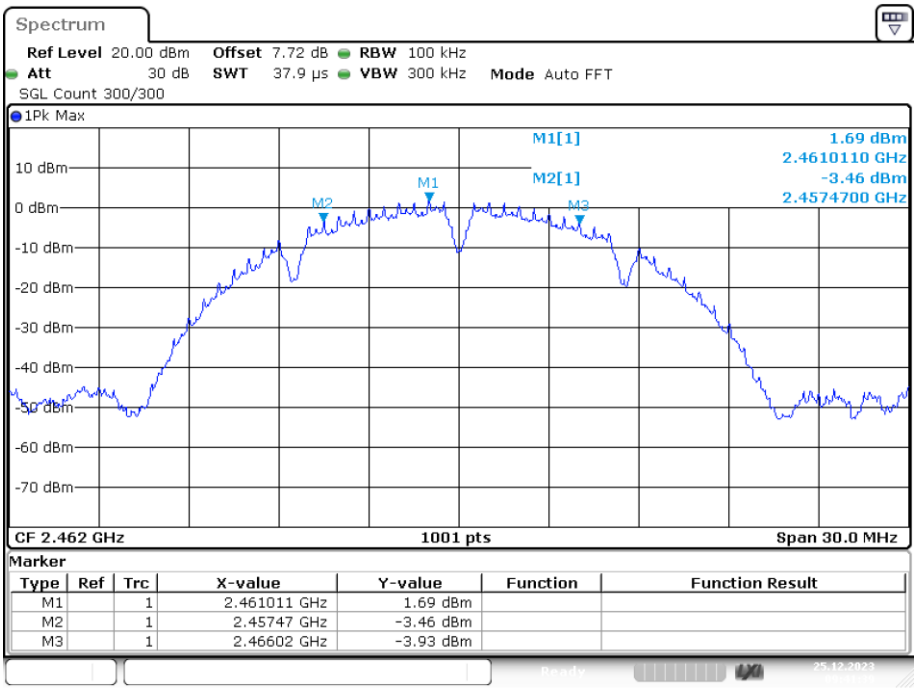
Date: 25.DEC.2023 09:37:43

-6dB Bandwidth NVNT b 2437MHz Ant1



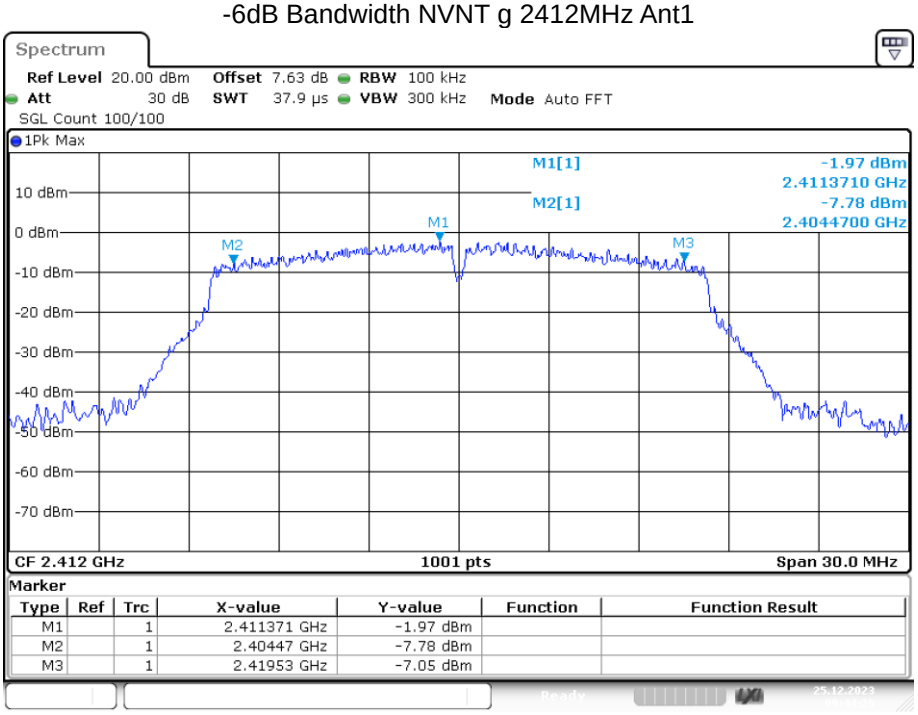
Date: 25.DEC.2023 09:39:55

-6dB Bandwidth NVNT b 2462MHz Ant1



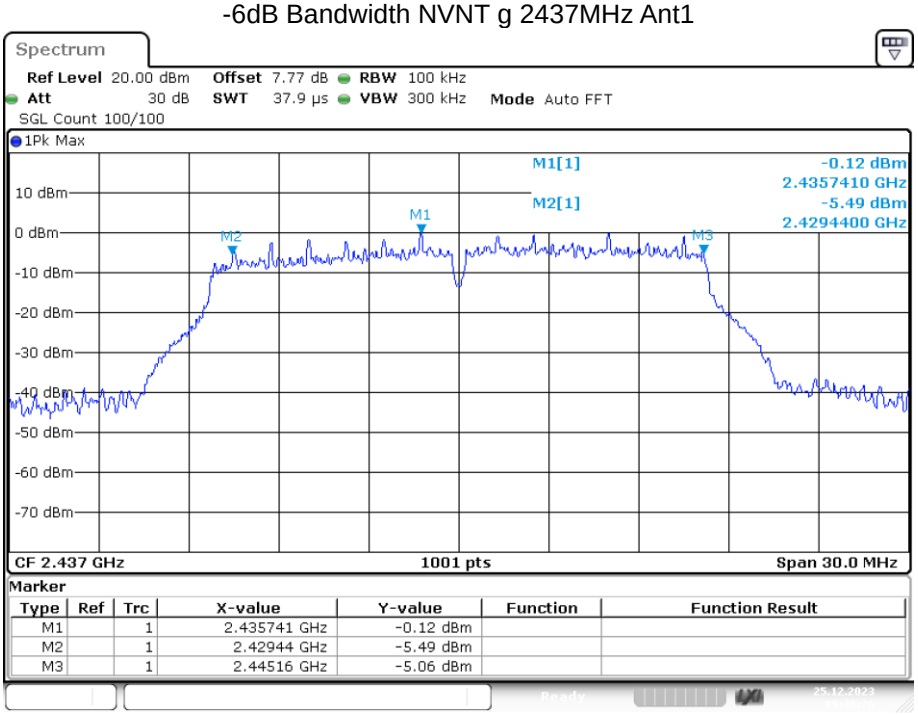
Date: 25.DEC.2023 09:41:39

-6dB Bandwidth NVNT g 2412MHz Ant1



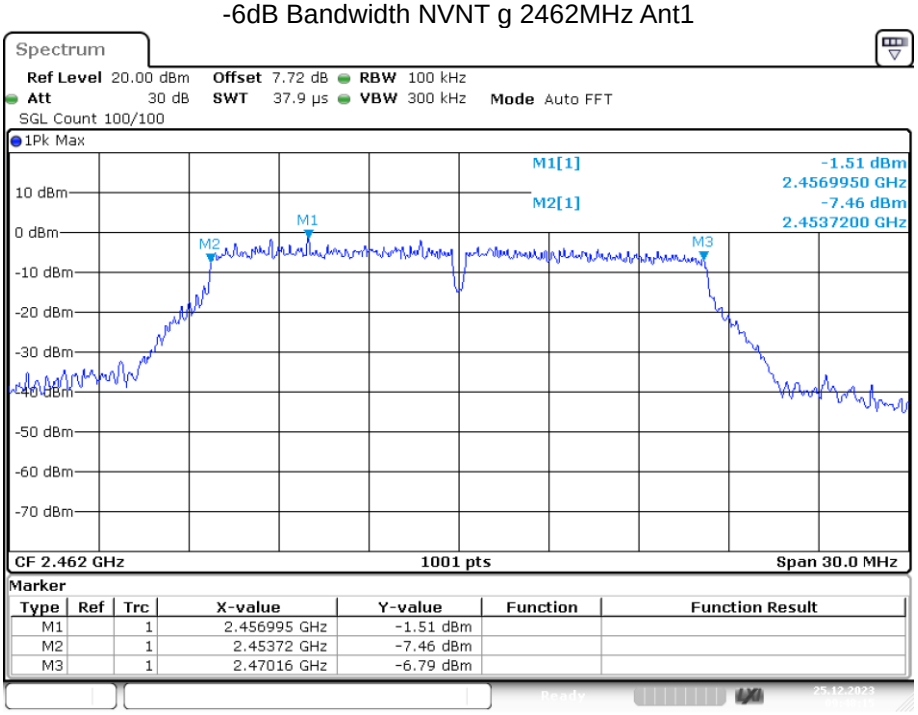
Date: 25.DEC.2023 09:44:26

-6dB Bandwidth NVNT g 2437MHz Ant1



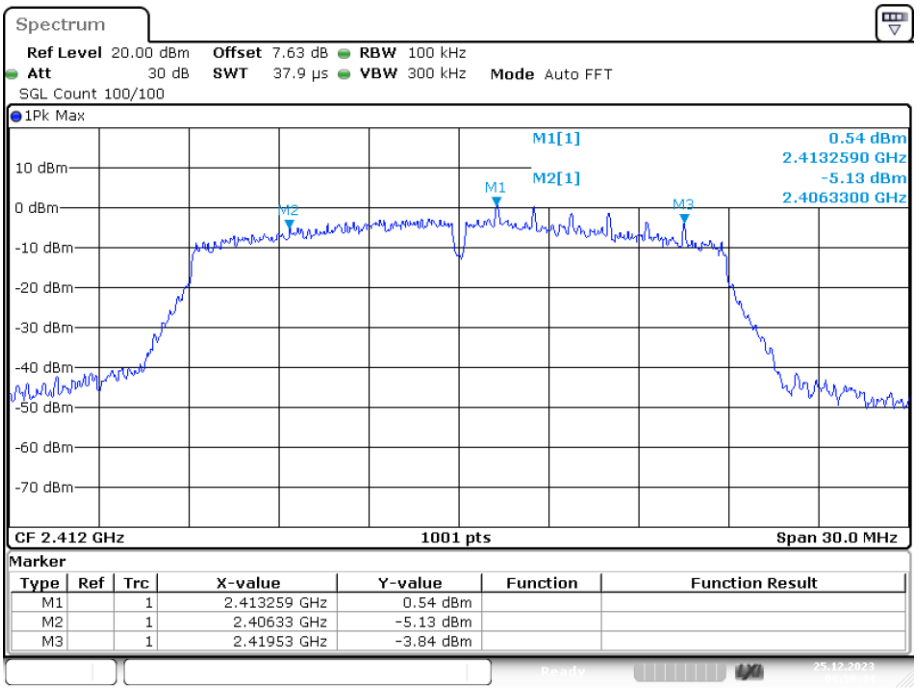
Date: 25.DEC.2023 09:46:26

-6dB Bandwidth NVNT g 2462MHz Ant1



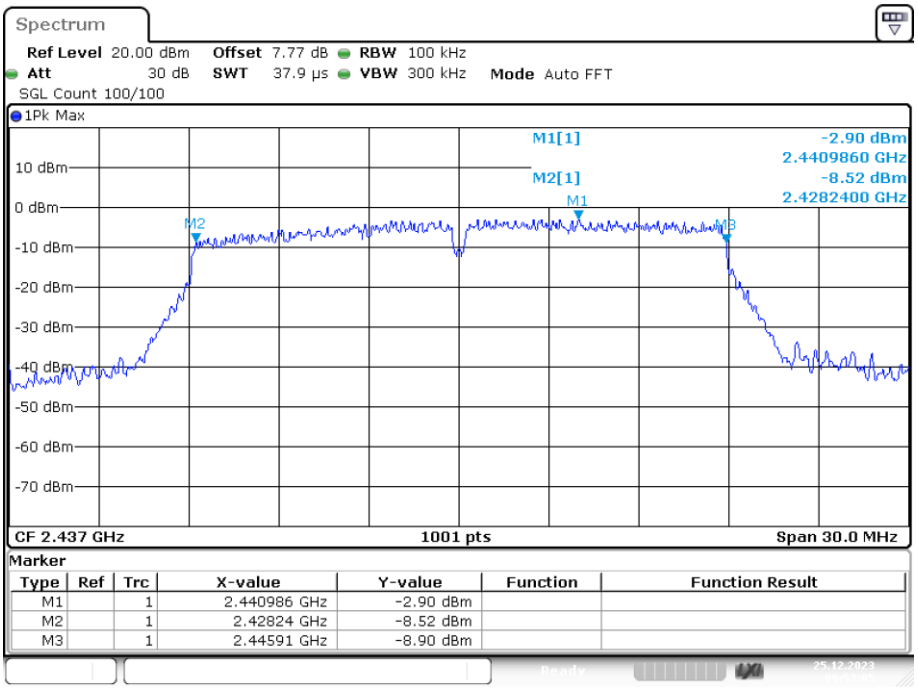
Date: 25.DEC.2023 09:48:15

-6dB Bandwidth NVNT n20 2412MHz Ant1



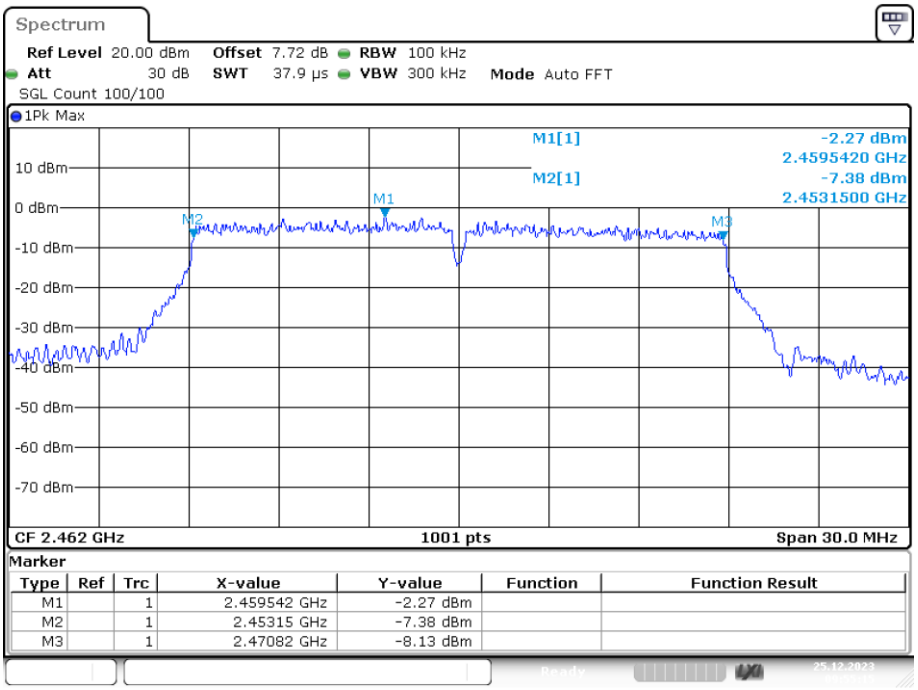
Date: 25.DEC.2023 09:50:44

-6dB Bandwidth NVNT n20 2437MHz Ant1



Date: 25.DEC.2023 09:53:05

-6dB Bandwidth NVNT n20 2462MHz Ant1

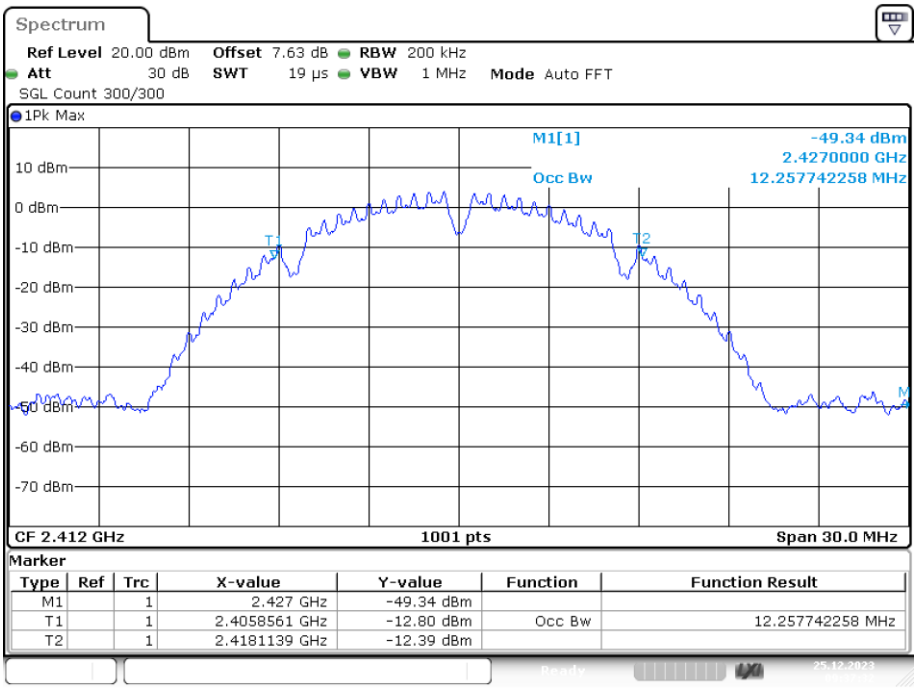


Date: 25.DEC.2023 09:55:15

Occupied Channel Bandwidth

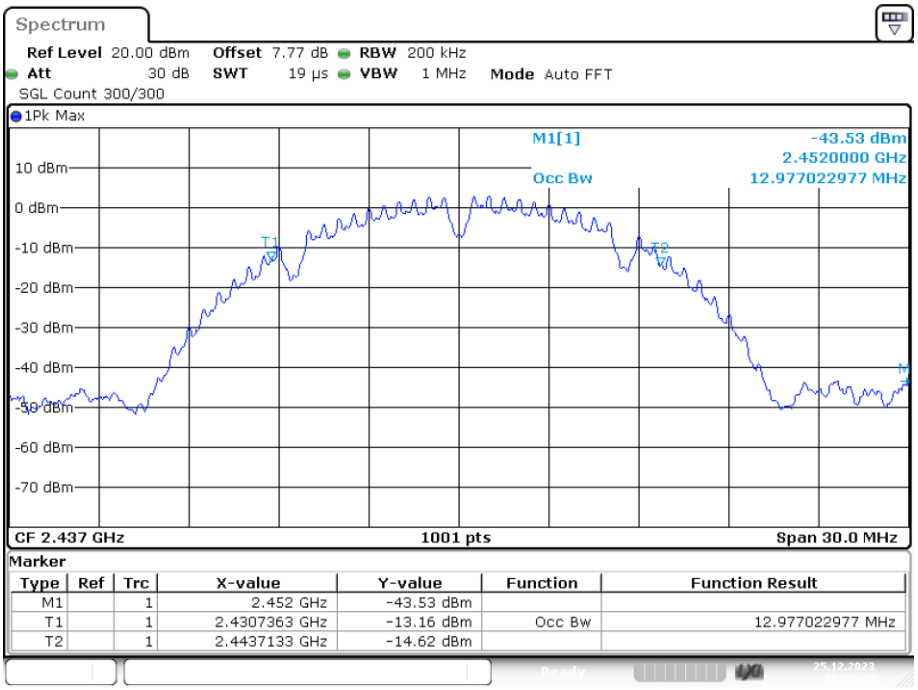
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.258
NVNT	b	2437	Ant1	12.977
NVNT	b	2462	Ant1	13.307
NVNT	g	2412	Ant1	16.244
NVNT	g	2437	Ant1	16.424
NVNT	g	2462	Ant1	16.513
NVNT	n20	2412	Ant1	17.383
NVNT	n20	2437	Ant1	17.622
NVNT	n20	2462	Ant1	17.772

OBW NVNT b 2412MHz Ant1



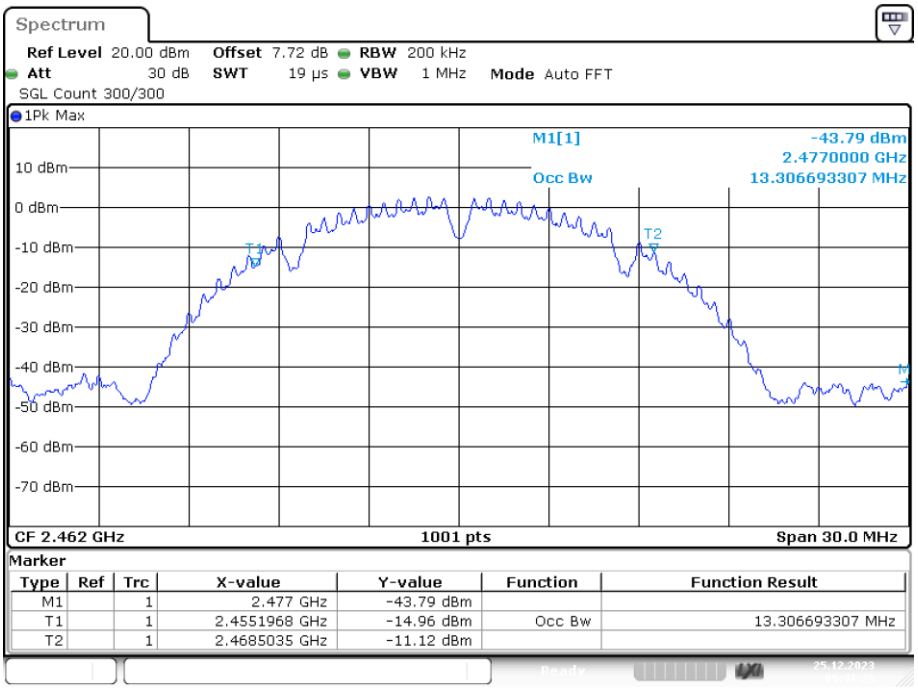
Date: 25.DEC.2023 09:37:32

OBW NVNT b 2437MHz Ant1



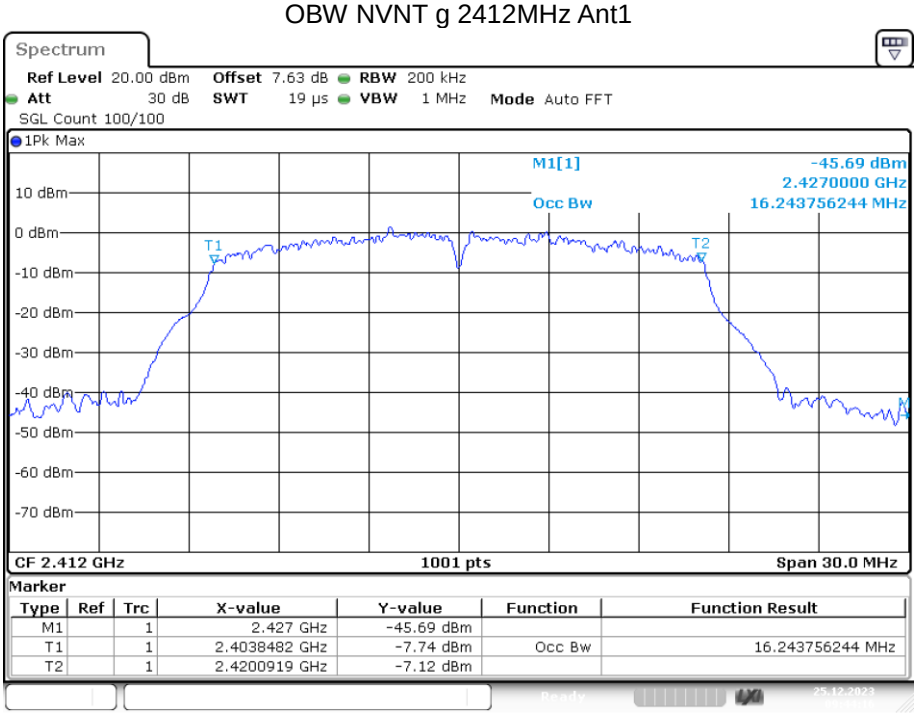
Date: 25.DEC.2023 09:39:43

OBW NVNT b 2462MHz Ant1



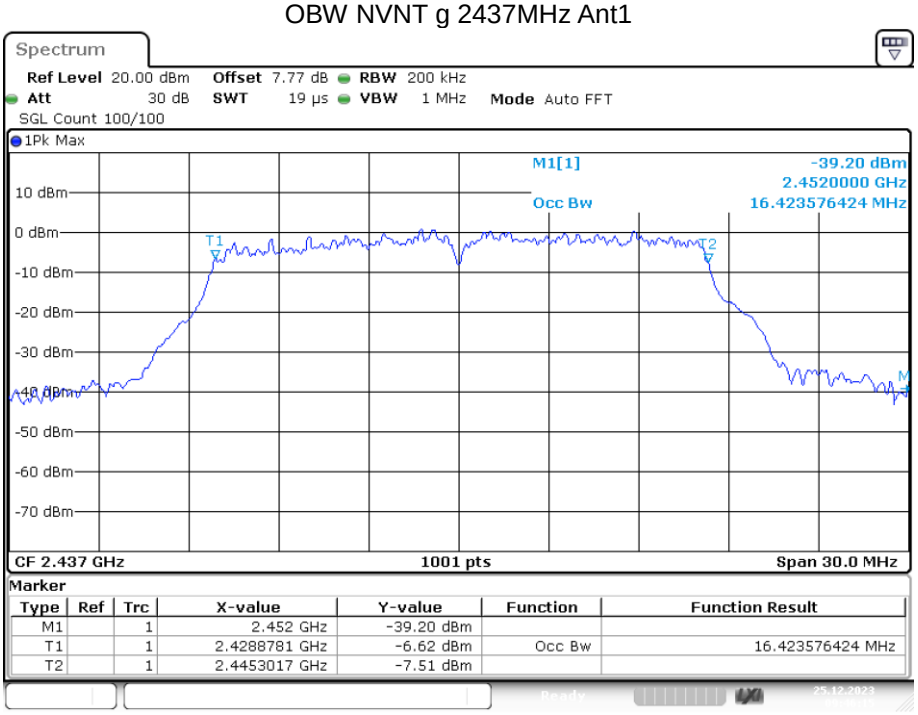
Date: 25.DEC.2023 09:41:28

OBW NVNT g 2412MHz Ant1



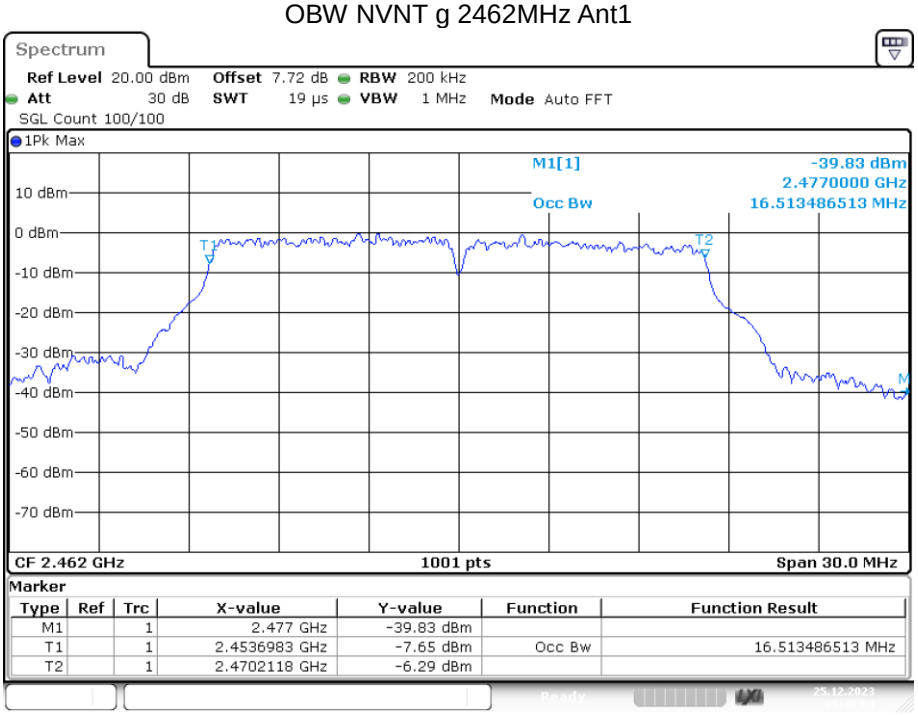
Date: 25.DEC.2023 09:44:15

OBW NVNT g 2437MHz Ant1



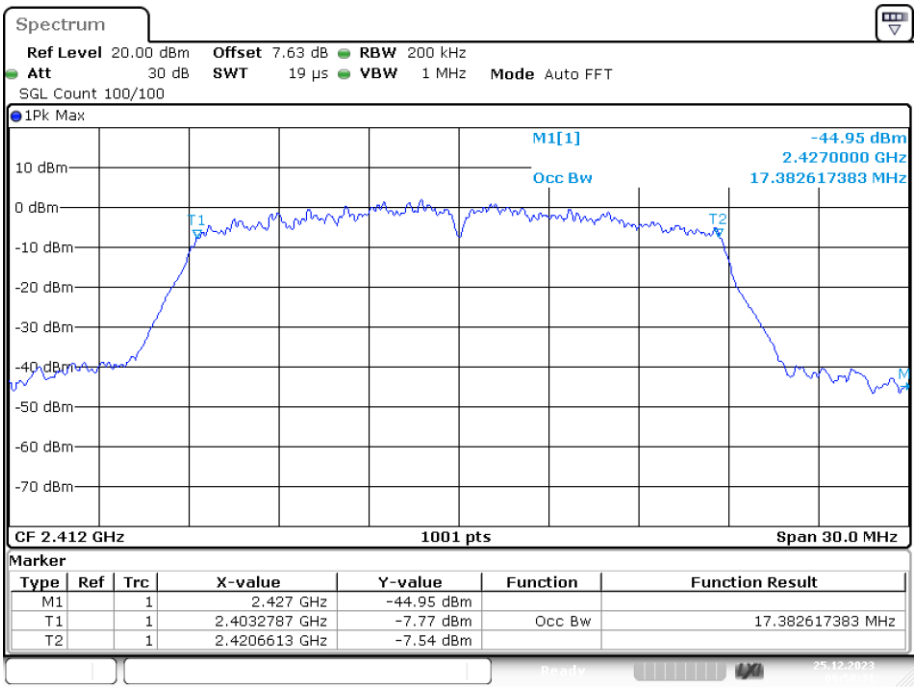
Date: 25.DEC.2023 09:46:15

OBW NVNT g 2462MHz Ant1



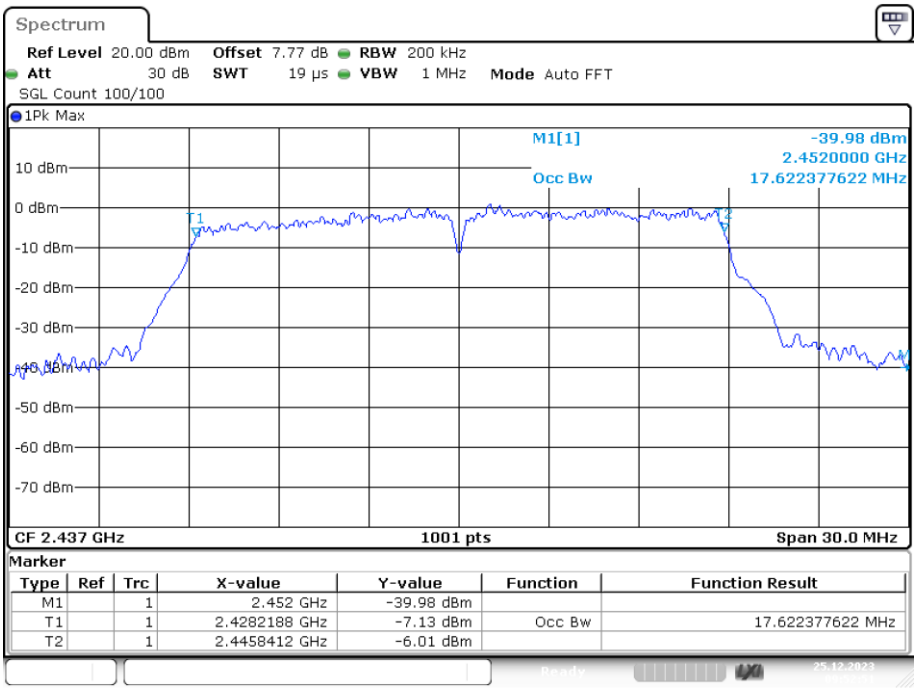
Date: 25.DEC.2023 09:48:03

OBW NVNT n20 2412MHz Ant1



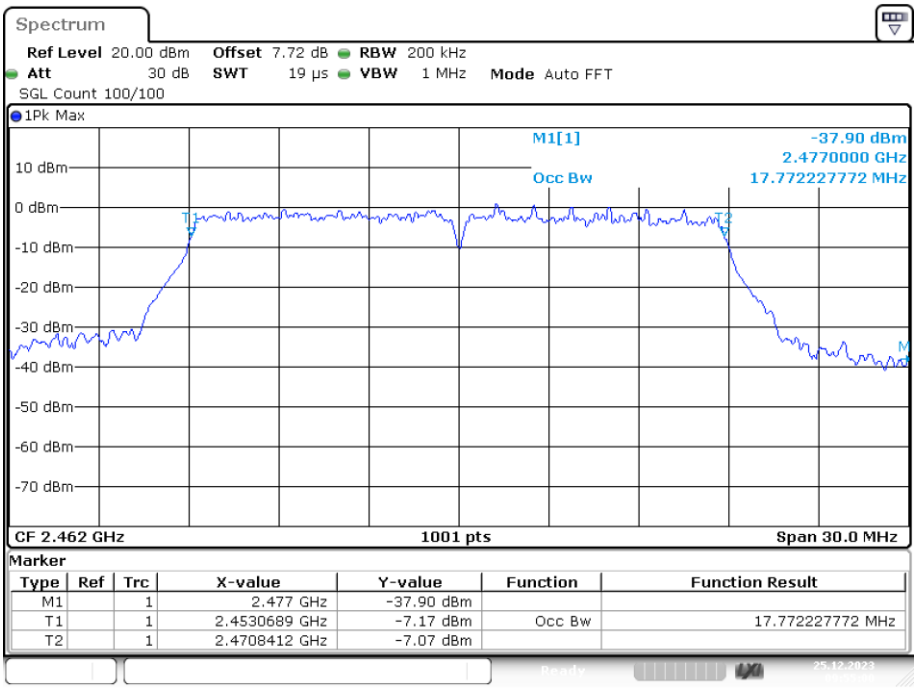
Date: 25.DEC.2023 09:50:31

OBW NVNT n20 2437MHz Ant1



Date: 25.DEC.2023 09:52:51

OBW NVNT n20 2462MHz Ant1



Date: 25.DEC.2023 09:55:00

Note: 1.All antennas have been tested, only the worst data of each pattern is reflected.

8. BAND EDGE CHECK

8.1. Test limits

Please refer RSS-GEN & FCC PART 15: 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits and RSS-GEN limits.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 0.1m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

8.3. Test Setup

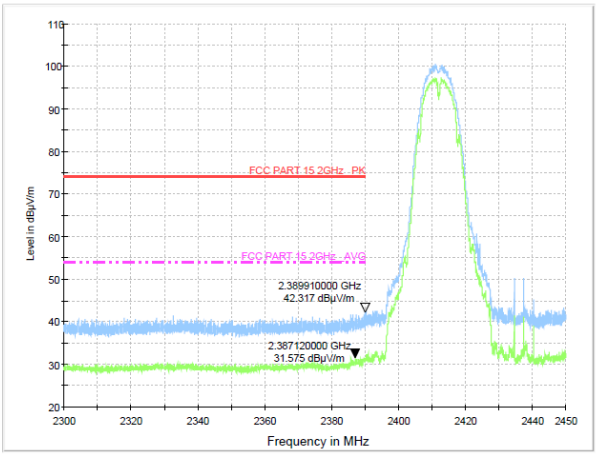
Same as 5.2.2.

8.4. Test Results

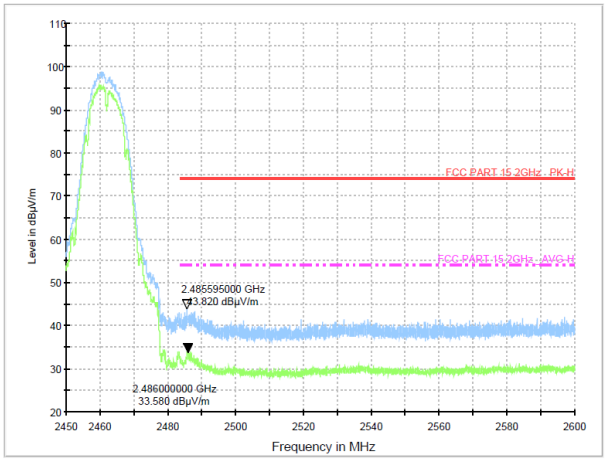
PASS.

Detailed information please see the following page.

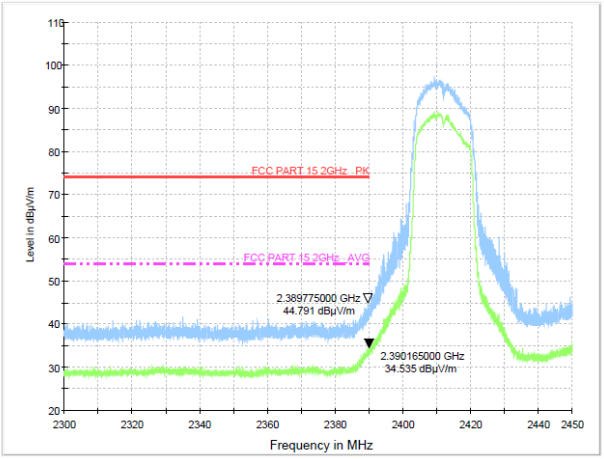
Test Mode: IEEE 802.11b-Low



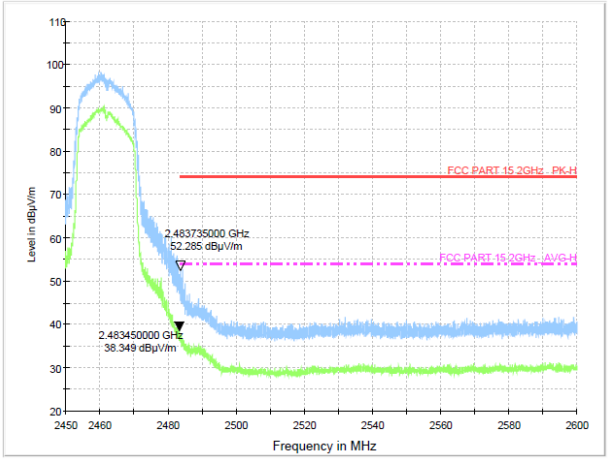
Test Mode: IEEE 802.11b-High



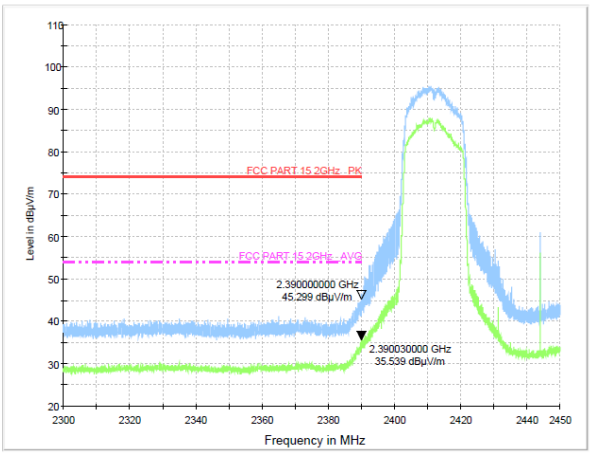
Test Mode: IEEE 802.11g-Low



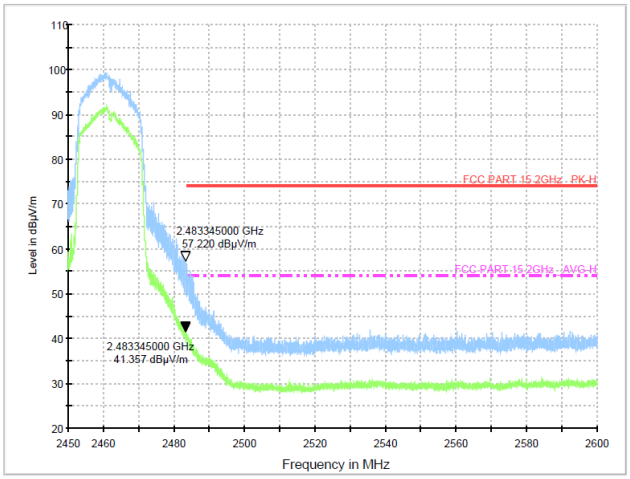
Test Mode: IEEE 802.11g-High



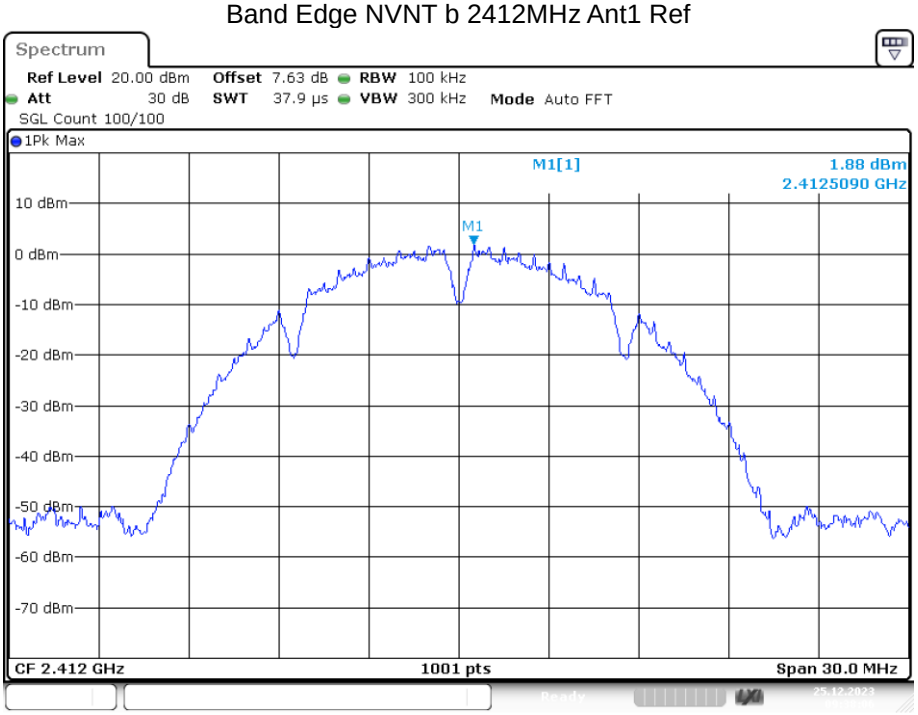
Test Mode: IEEE 802.11n20-Low



Test Mode: IEEE 802.11n20-High

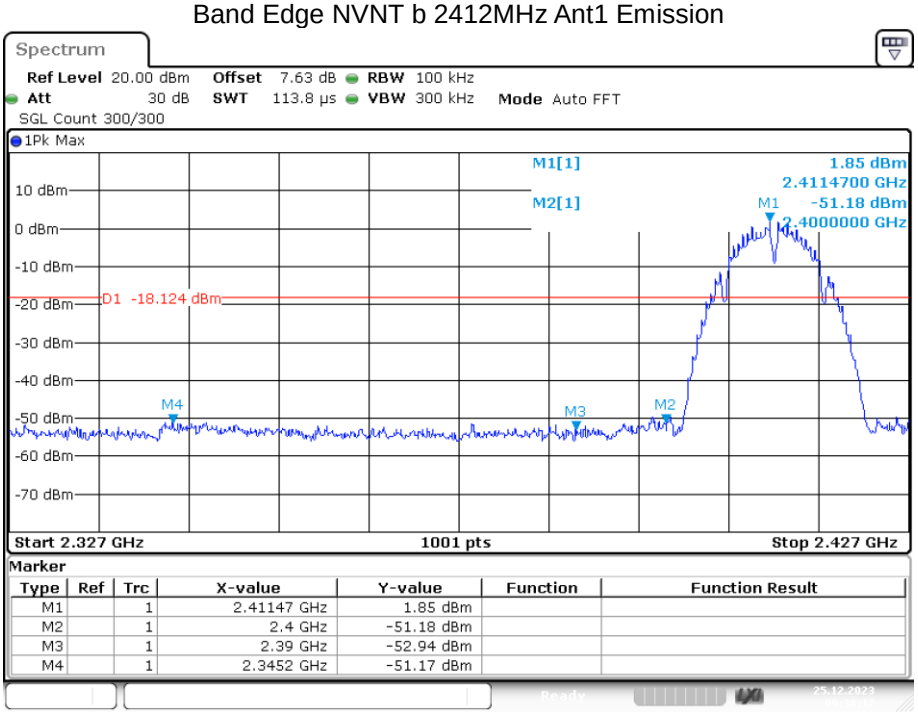


Band Edge NVNT b 2412MHz Ant1 Ref



Date: 25.DEC.2023 09:38:06

Band Edge NVNT b 2412MHz Ant1 Emission

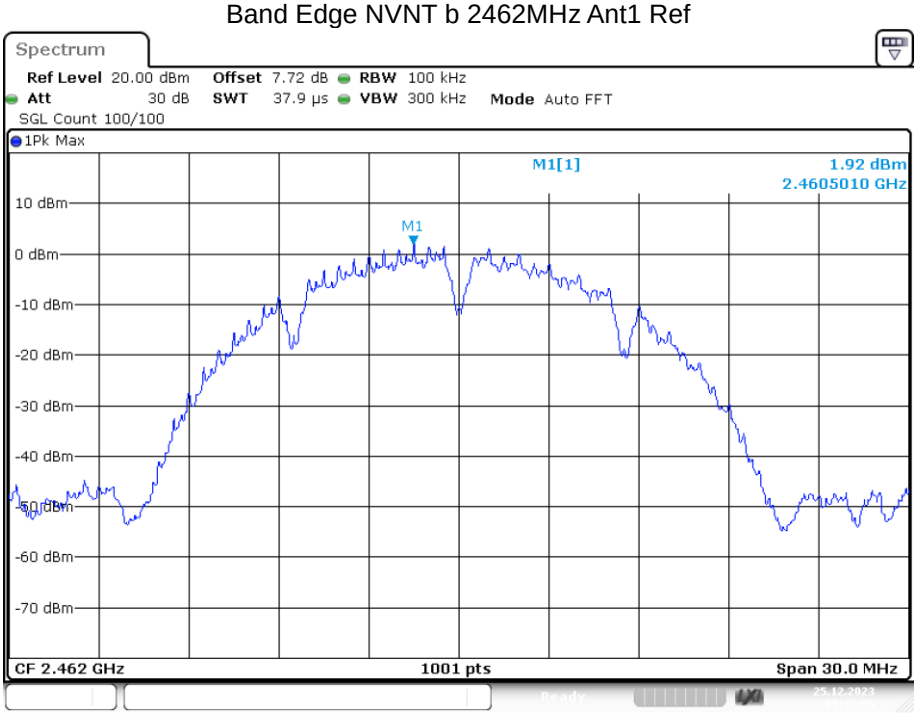


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41147 GHz	1.85 dBm		
M2		1	2.4 GHz	-51.18 dBm		
M3		1	2.39 GHz	-52.94 dBm		
M4		1	2.3452 GHz	-51.17 dBm		

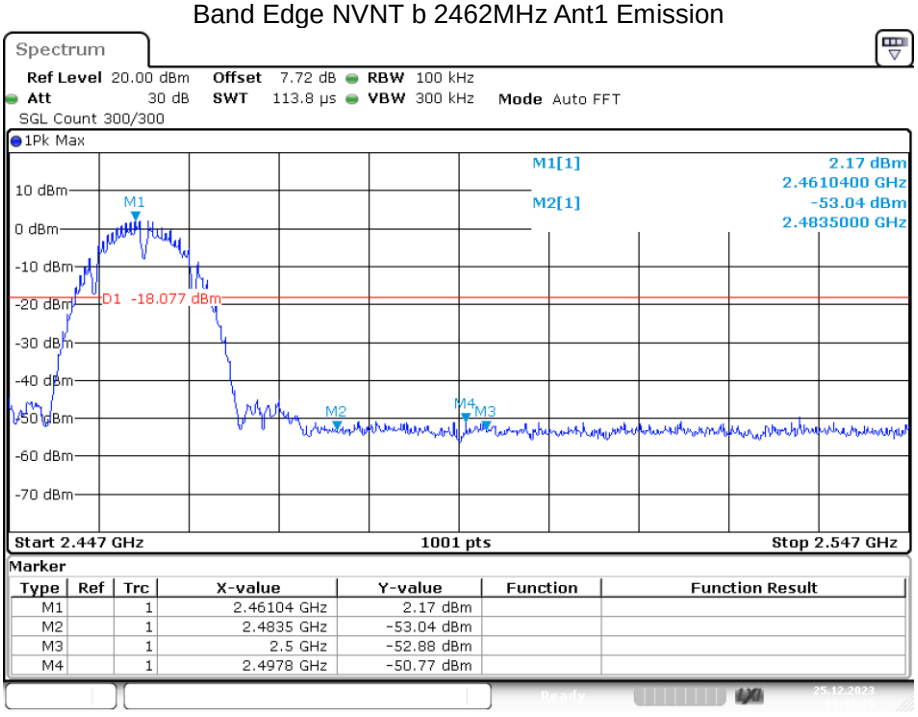
Date: 25.DEC.2023 09:38:17

Band Edge NVNT b 2462MHz Ant1 Ref



Date: 25.DEC.2023 09:42:05

Band Edge NVNT b 2462MHz Ant1 Emission

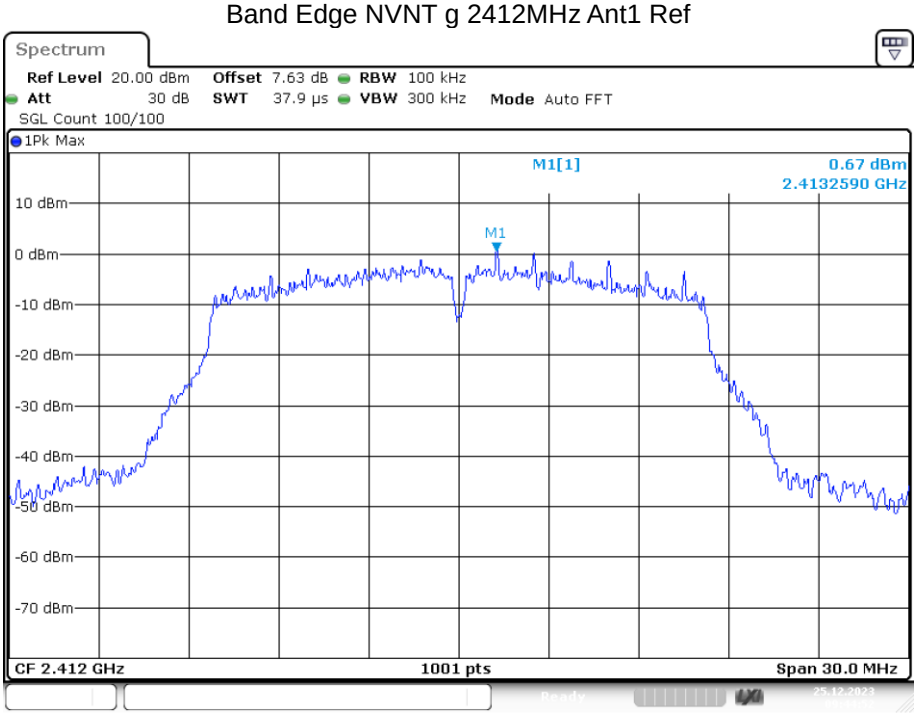


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46104 GHz	2.17 dBm		
M2		1	2.4835 GHz	-53.04 dBm		
M3		1	2.5 GHz	-52.88 dBm		
M4		1	2.4978 GHz	-50.77 dBm		

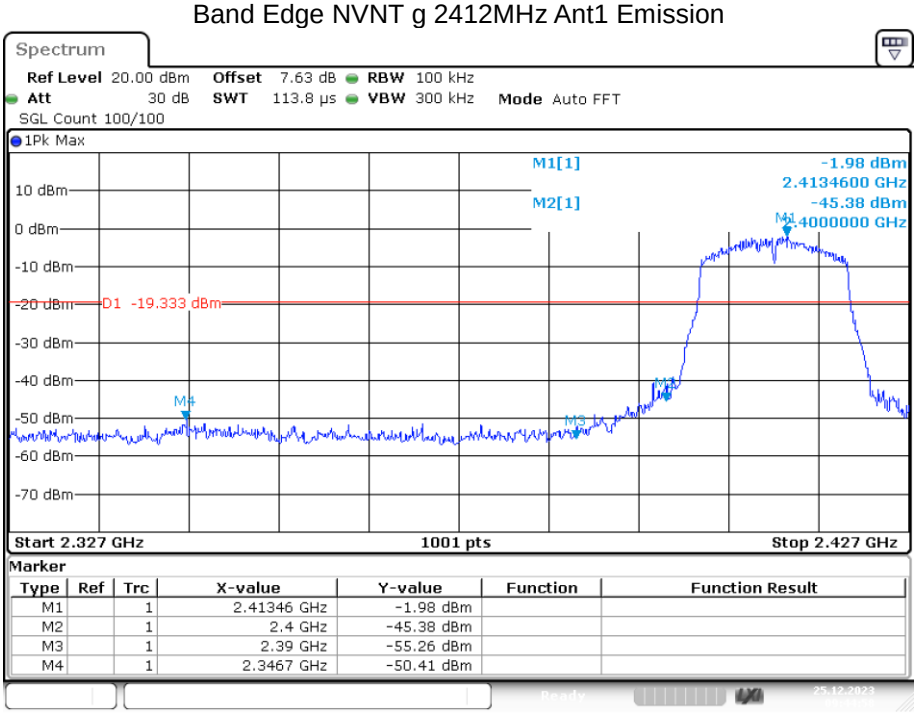
Date: 25.DEC.2023 09:42:16

Band Edge NVNT g 2412MHz Ant1 Ref



Date: 25.DEC.2023 09:44:52

Band Edge NVNT g 2412MHz Ant1 Emission

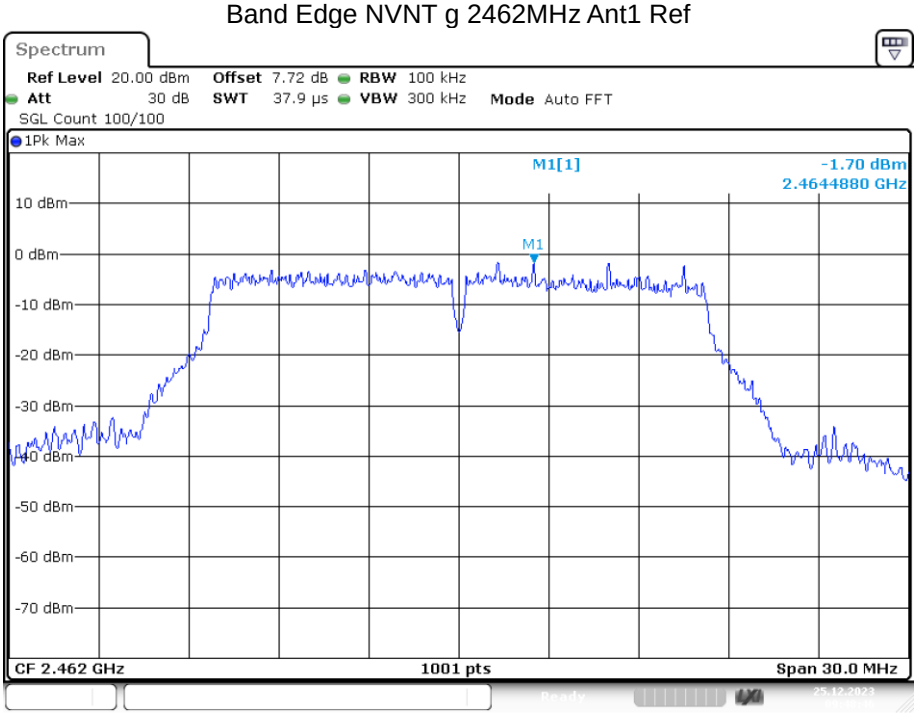


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41346 GHz	-1.98 dBm		
M2		1	2.4 GHz	-45.38 dBm		
M3		1	2.39 GHz	-55.26 dBm		
M4		1	2.3467 GHz	-50.41 dBm		

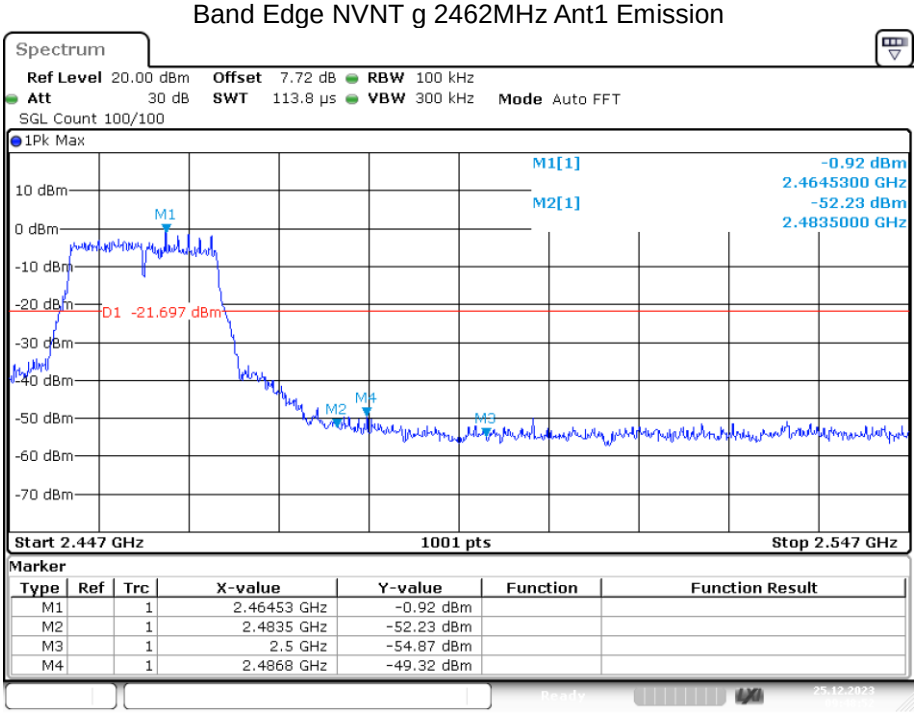
Date: 25.DEC.2023 09:44:58

Band Edge NVNT g 2462MHz Ant1 Ref



Date: 25.DEC.2023 09:48:46

Band Edge NVNT g 2462MHz Ant1 Emission

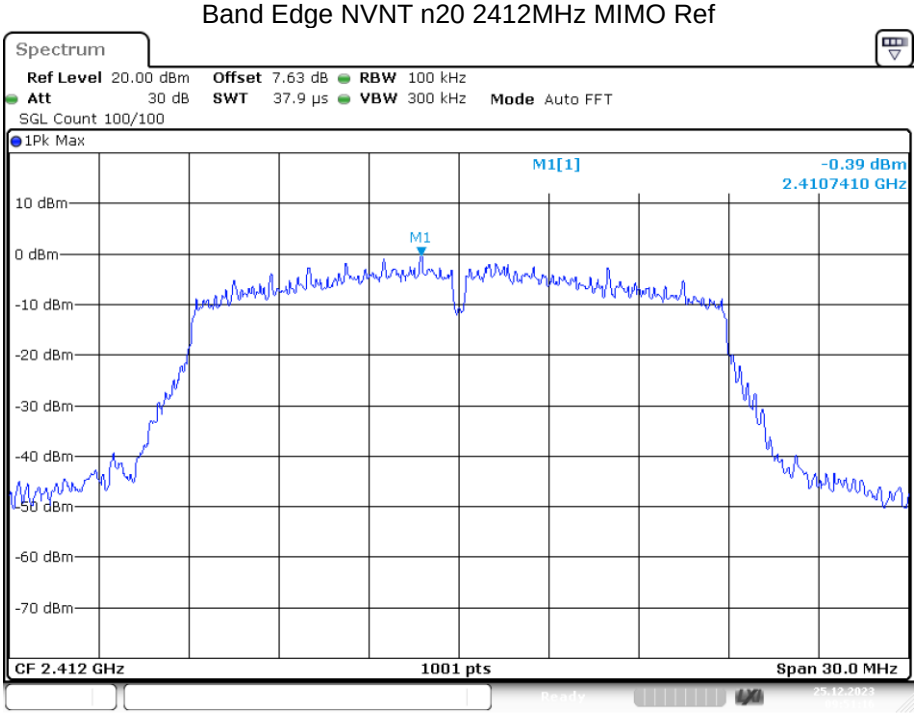


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46453 GHz	-0.92 dBm		
M2		1	2.4835 GHz	-52.23 dBm		
M3		1	2.5 GHz	-54.87 dBm		
M4		1	2.4868 GHz	-49.32 dBm		

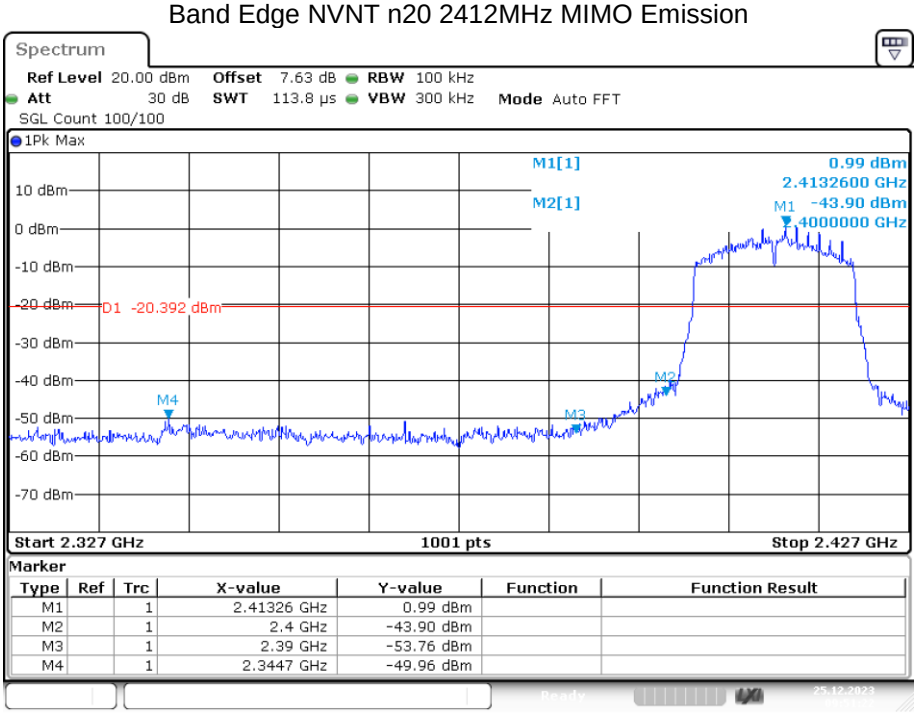
Date: 25.DEC.2023 09:48:51

Band Edge NVNT n20 2412MHz MIMO Ref



Date: 25.DEC.2023 09:51:16

Band Edge NVNT n20 2412MHz MIMO Emission

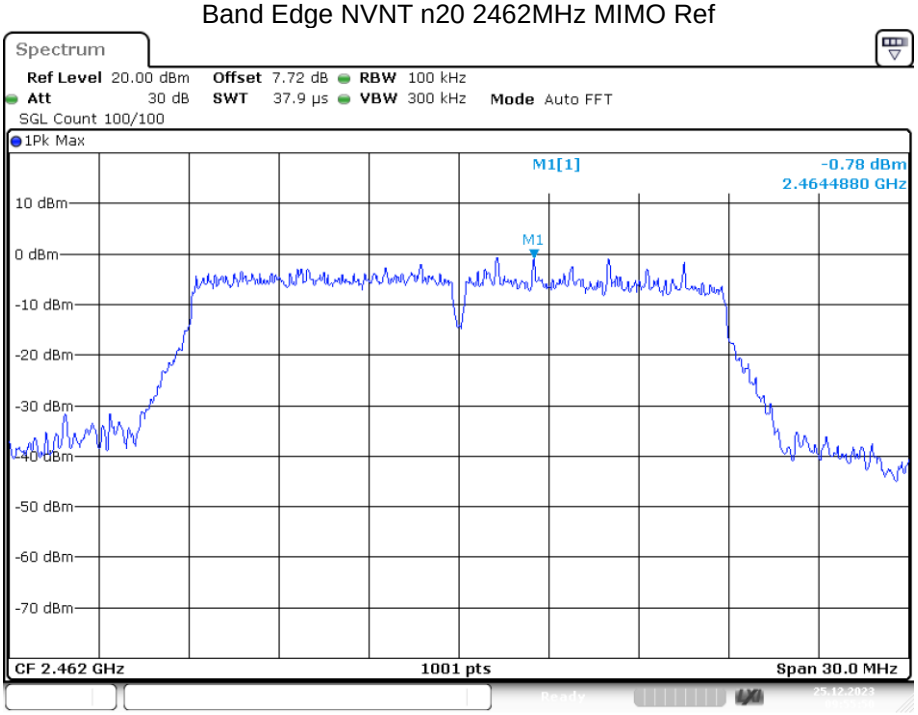


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41326 GHz	0.99 dBm		
M2		1	2.4 GHz	-43.90 dBm		
M3		1	2.39 GHz	-53.76 dBm		
M4		1	2.3447 GHz	-49.96 dBm		

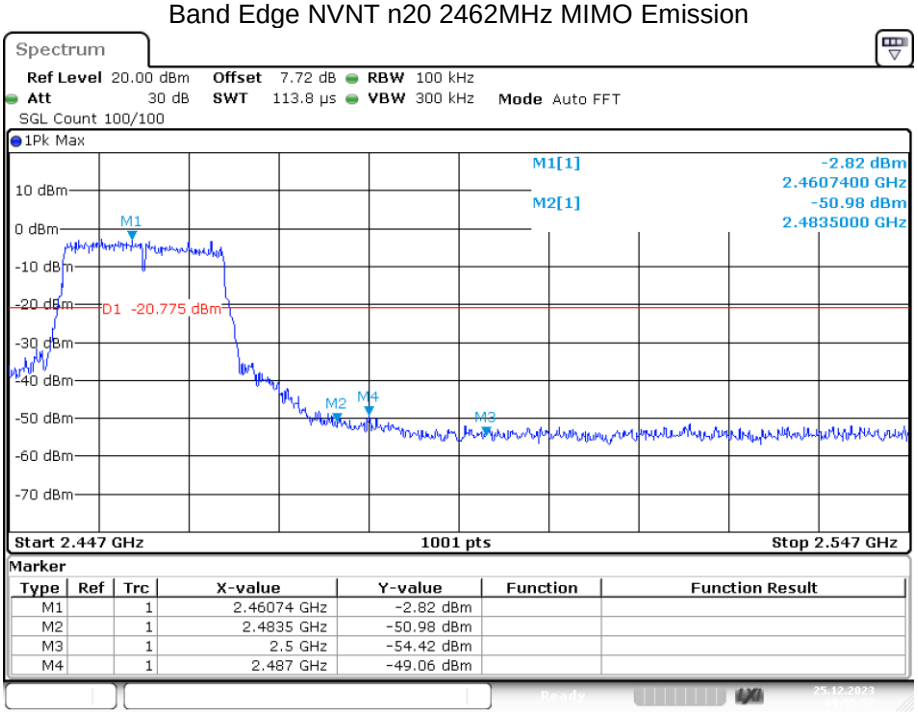
Date: 25.DEC.2023 09:51:21

Band Edge NVNT n20 2462MHz MIMO Ref



Date: 25.DEC.2023 09:55:50

Band Edge NVNT n20 2462MHz MIMO Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46074 GHz	-2.82 dBm		
M2		1	2.4835 GHz	-50.98 dBm		
M3		1	2.5 GHz	-54.42 dBm		
M4		1	2.487 GHz	-49.06 dBm		

Date: 25.DEC.2023 09:55:56

Note: 1. Except for mode b/g, other modes test the MIMO status.
2. All antennas have been tested, only the worst data of each pattern is reflected.

9. ANTENNA REQUIREMENT

9.1. Standard Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2. Antenna Connected Construction

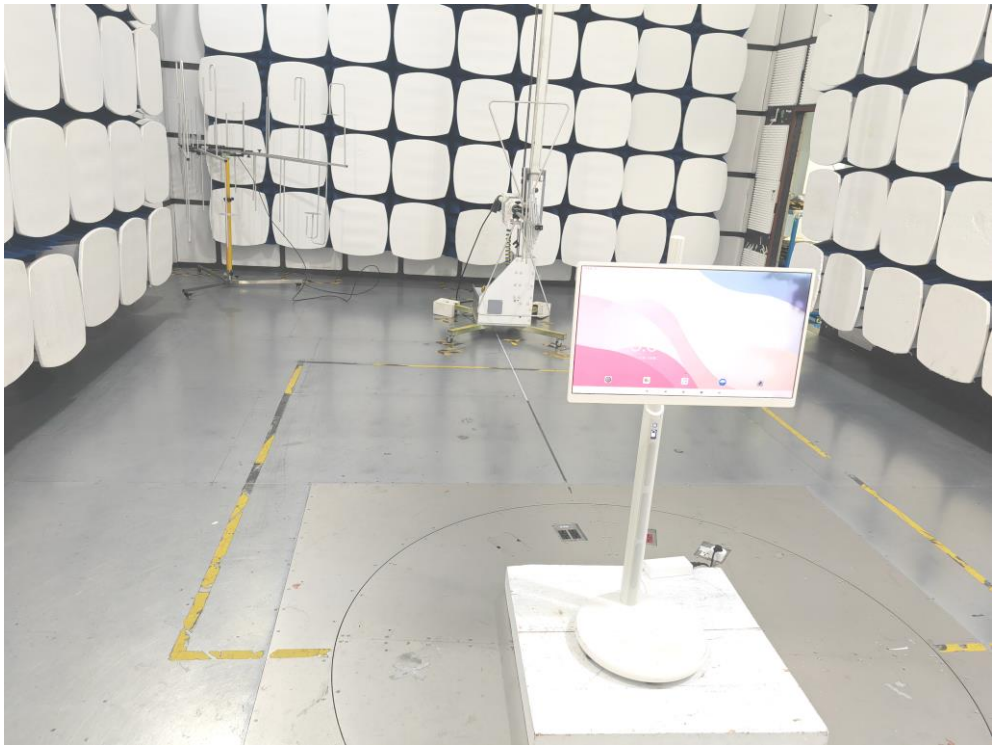
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

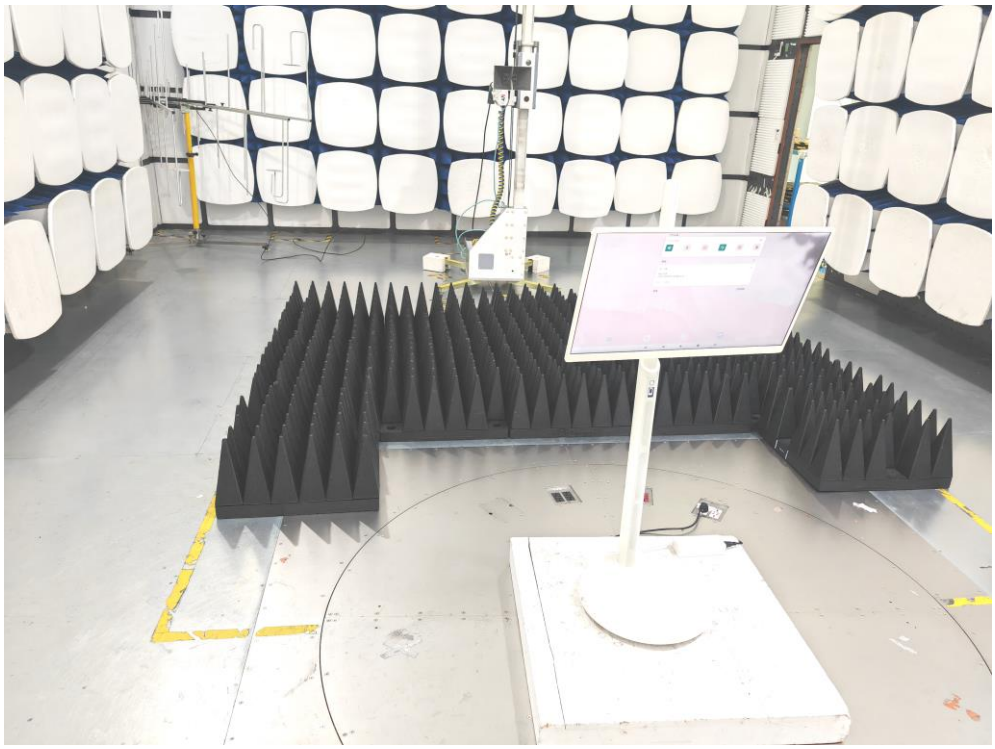
9.3. Results

The use of an antenna that is uniquely coupled to the intended radiator shall be considered sufficient to comply with the provisions of this section.

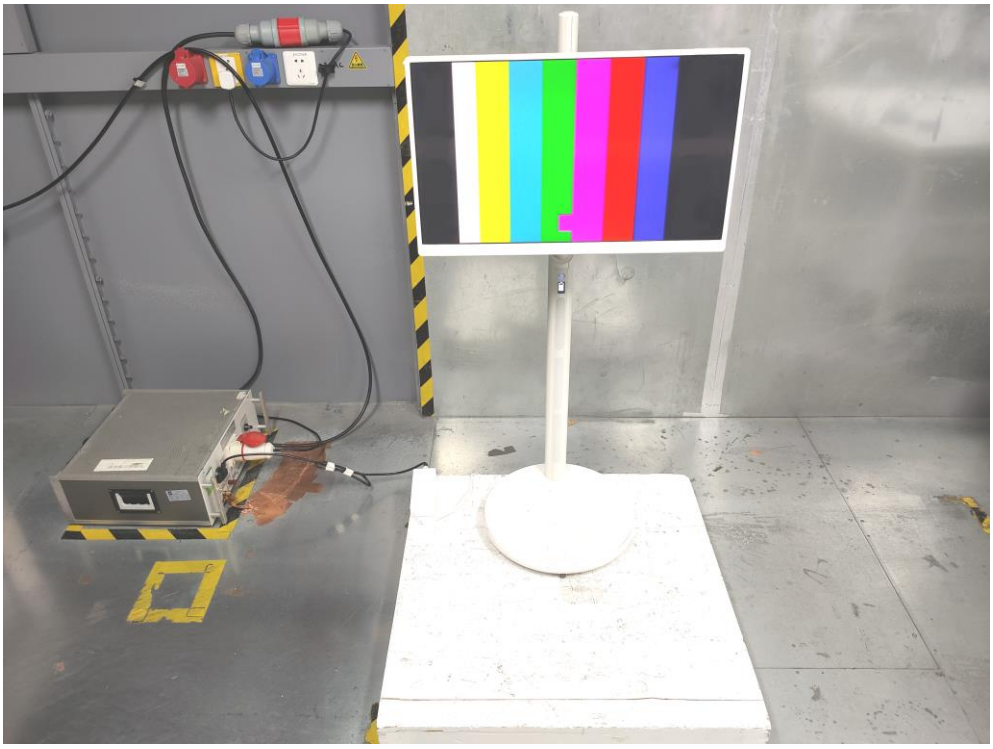
10. TEST SETUP PHOTO

10.1.Photos of Radiated emission





10.2.Photos of Conducted Emission test



-------END OF REPORT-------