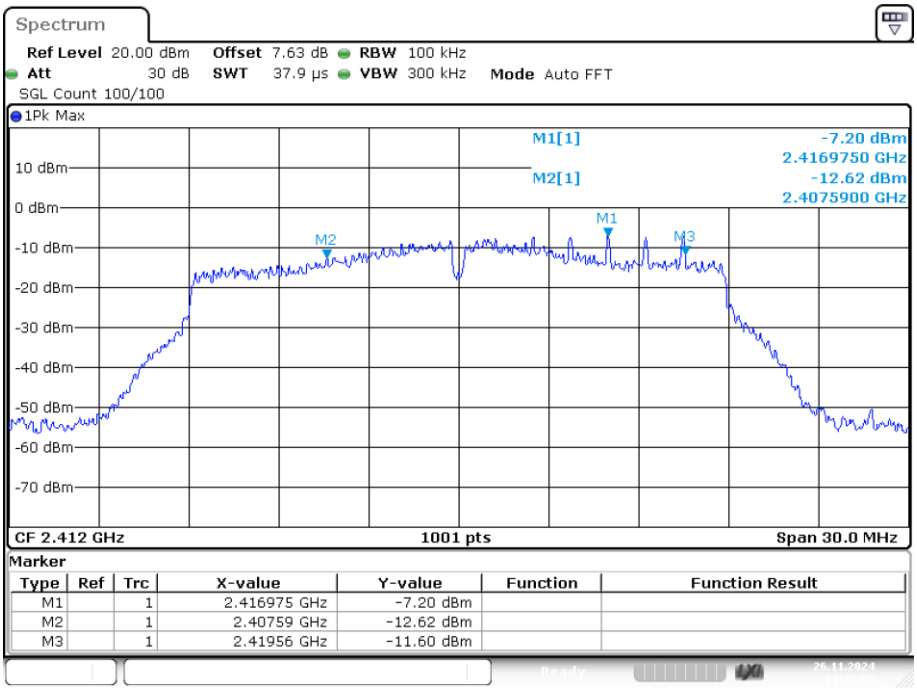
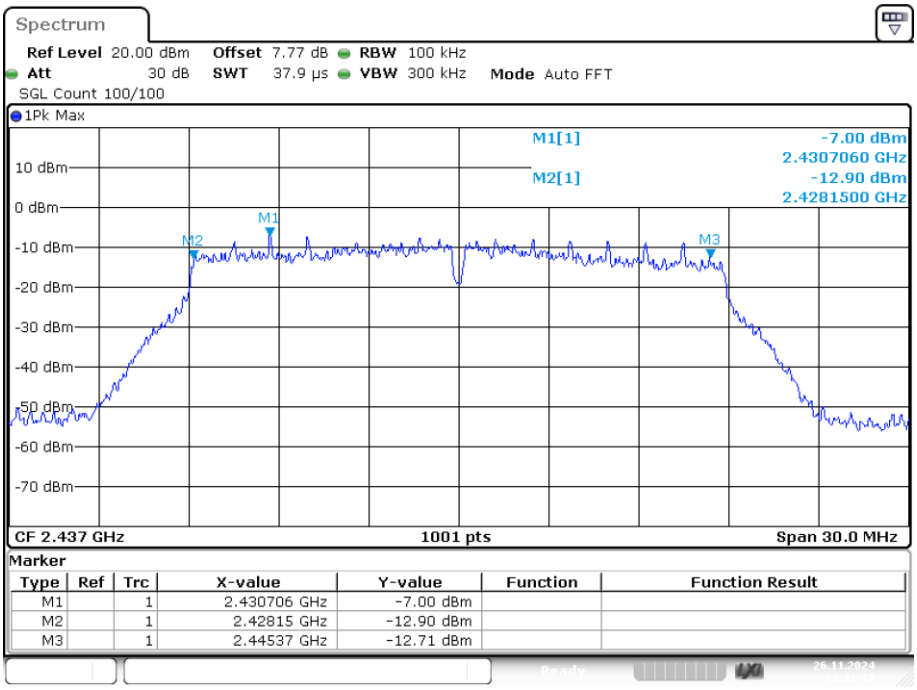
-6dB Bandwidth NVNT n20 2412MHz Ant1



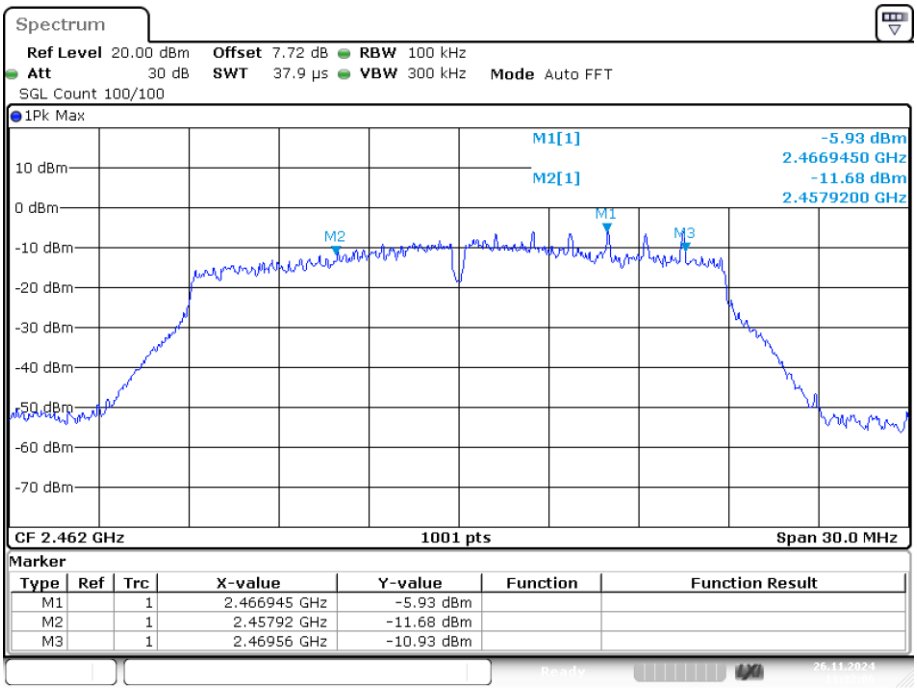
Date: 26.NOV.2024 11:29:05

-6dB Bandwidth NVNT n20 2437MHz Ant1



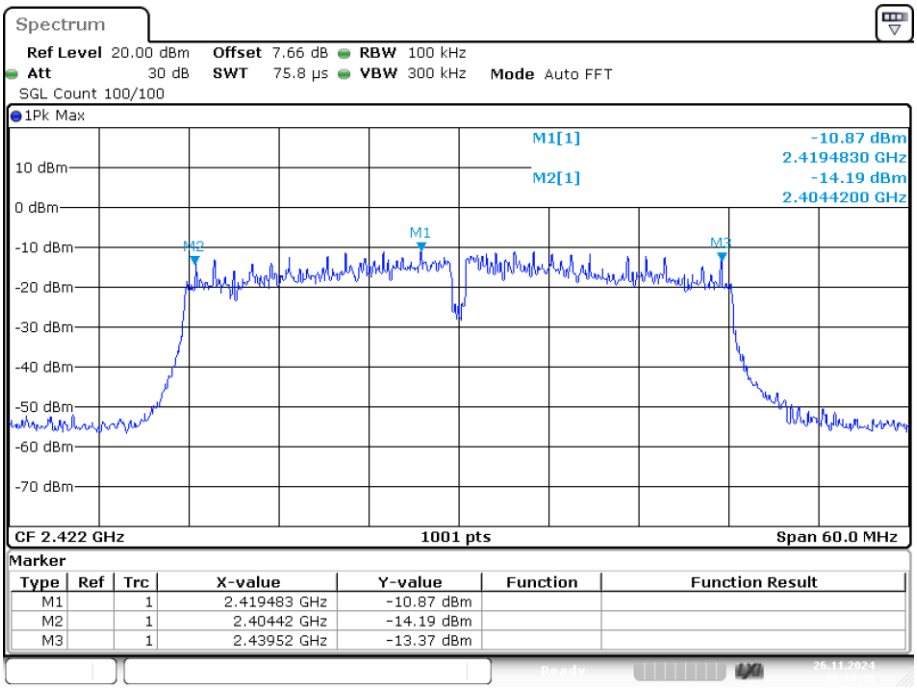
Date: 26.NOV.2024 11:31:16

-6dB Bandwidth NVNT n20 2462MHz Ant1



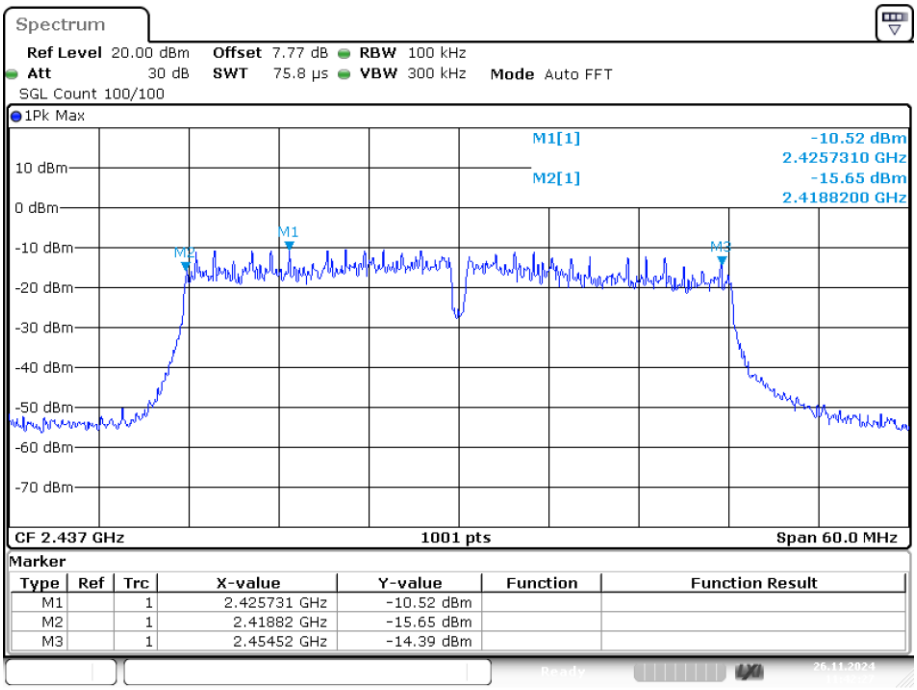
Date: 26.NOV.2024 11:33:05

-6dB Bandwidth NVNT n40 2422MHz Ant1



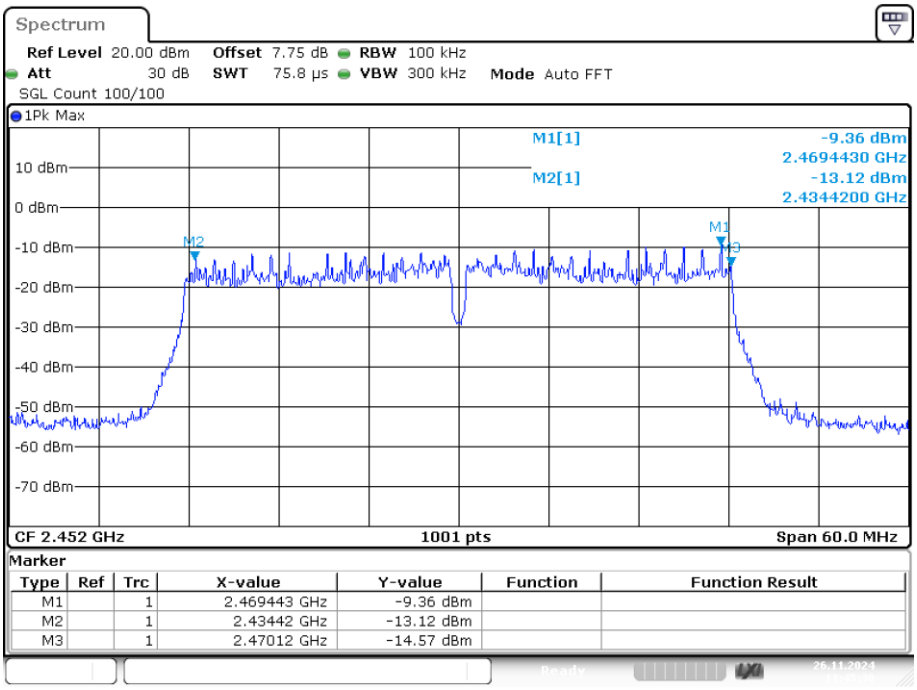
Date: 26.NOV.2024 11:39:45

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 26.NOV.2024 11:42:27

-6dB Bandwidth NVNT n40 2452MHz Ant1

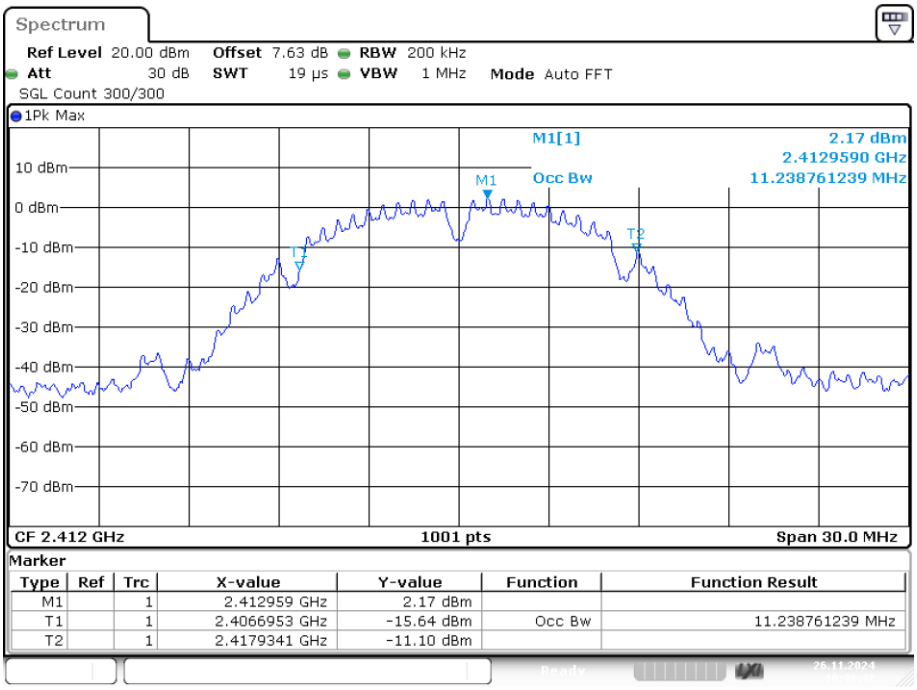


Date: 26.NOV.2024 11:45:38

Occupied Channel Bandwidth

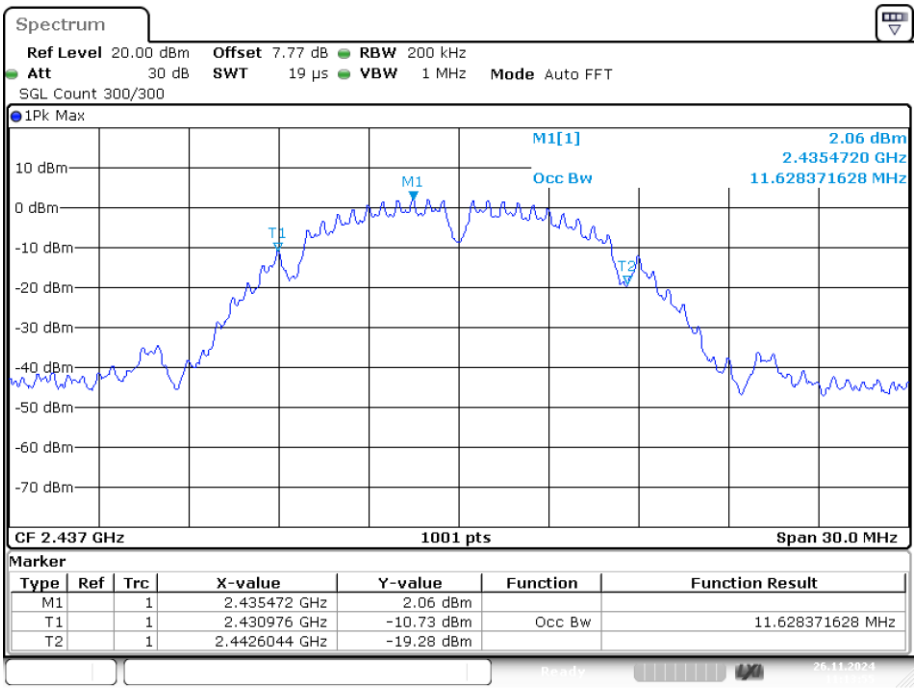
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	11.239
NVNT	b	2437	Ant1	11.628
NVNT	b	2462	Ant1	11.538
NVNT	g	2412	Ant1	16.304
NVNT	g	2437	Ant1	16.573
NVNT	g	2462	Ant1	16.484
NVNT	n20	2412	Ant1	17.443
NVNT	n20	2437	Ant1	17.622
NVNT	n20	2462	Ant1	17.532
NVNT	n40	2422	Ant1	35.964
NVNT	n40	2437	Ant1	36.264
NVNT	n40	2452	Ant1	36.563

OBW NVNT b 2412MHz Ant1



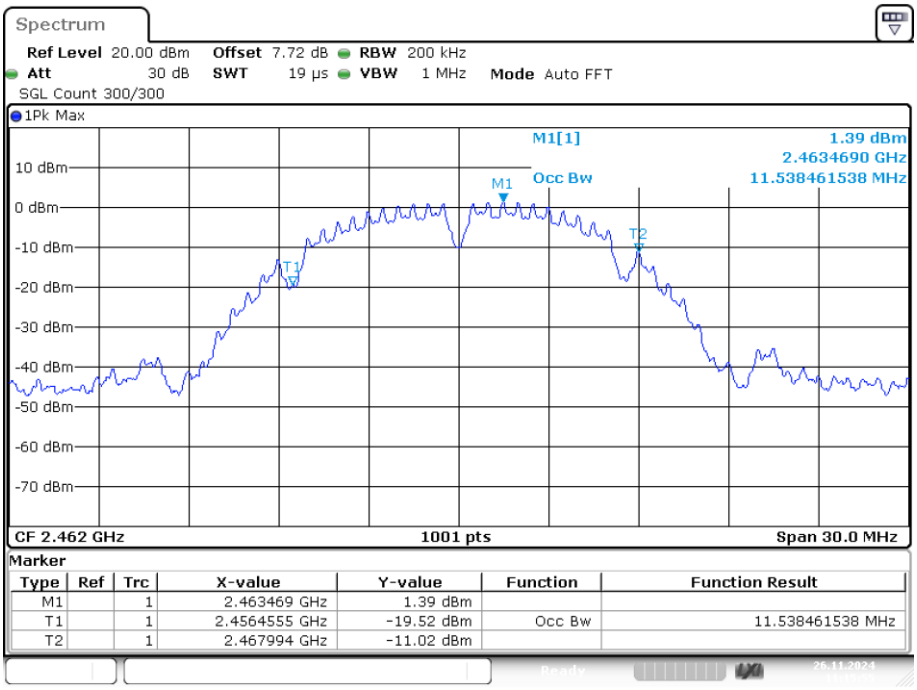
Date: 26.NOV.2024 10:49:48

OBW NVNT b 2437MHz Ant1



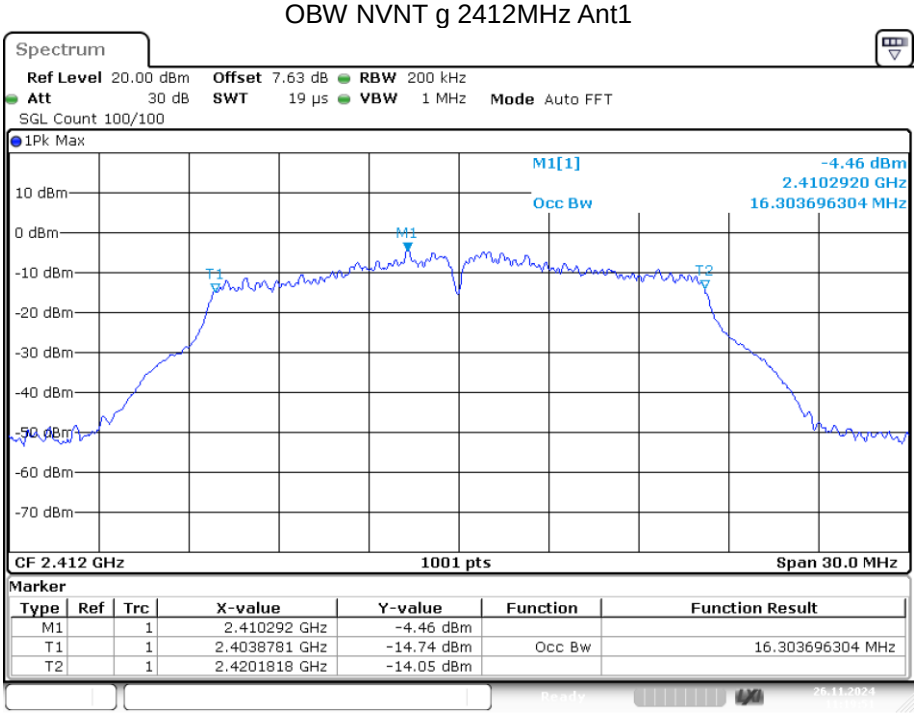
Date: 26.NOV.2024 11:13:54

OBW NVNT b 2462MHz Ant1



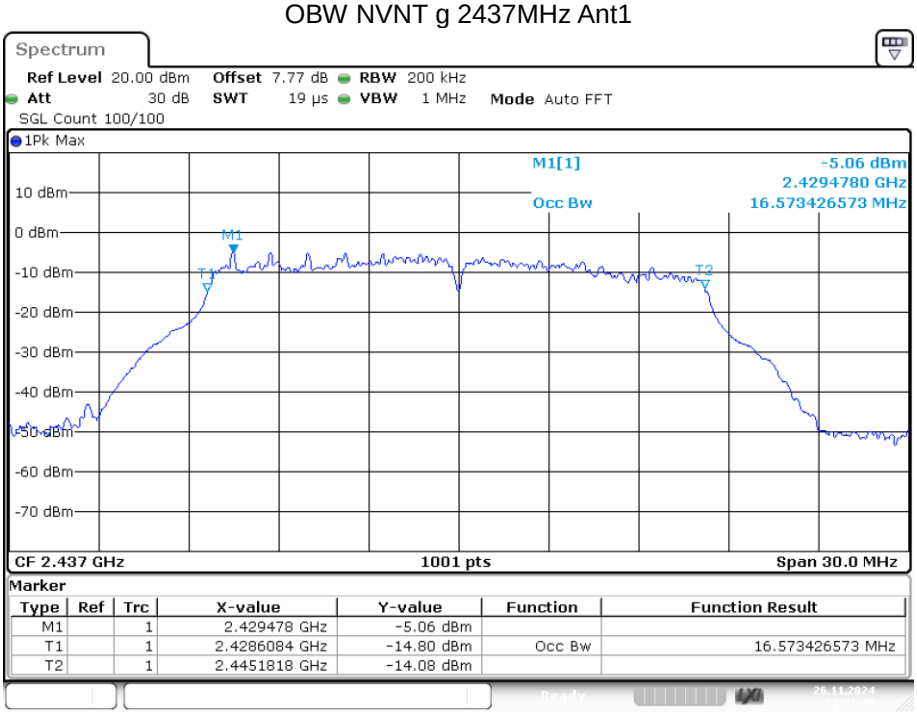
Date: 26.NOV.2024 11:15:56

OBW NVNT g 2412MHz Ant1



Date: 26.NOV.2024 11:19:51

OBW NVNT g 2437MHz Ant1



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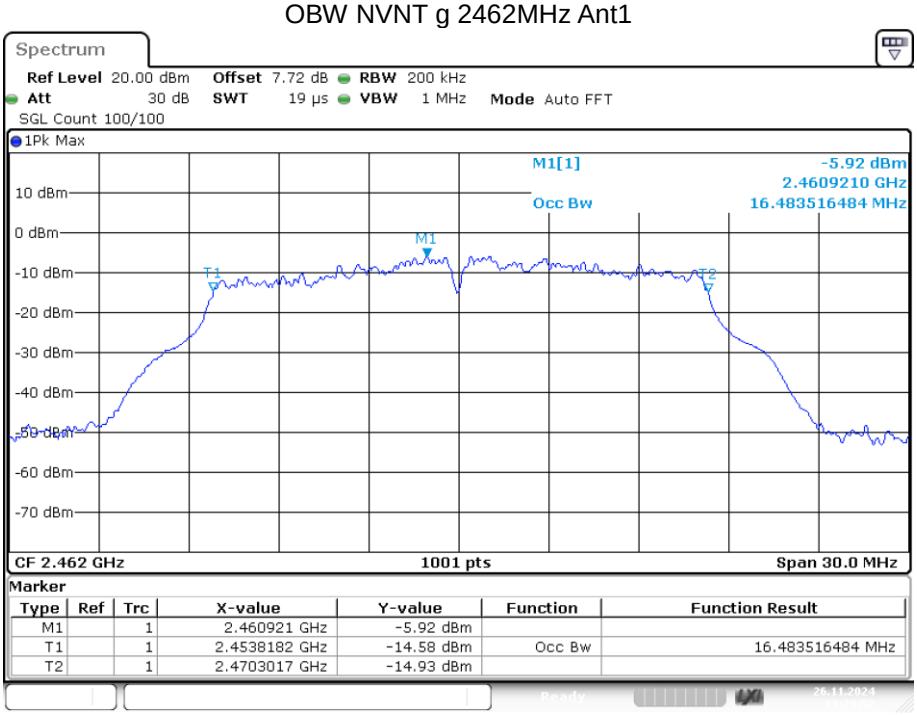
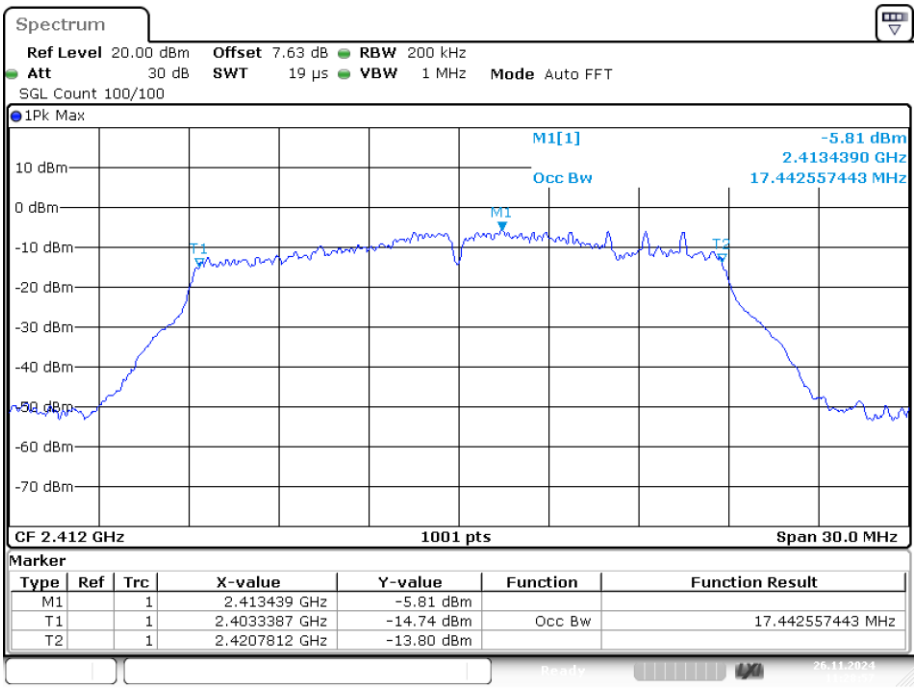
OBW NVNT g 2462MHz Ant1



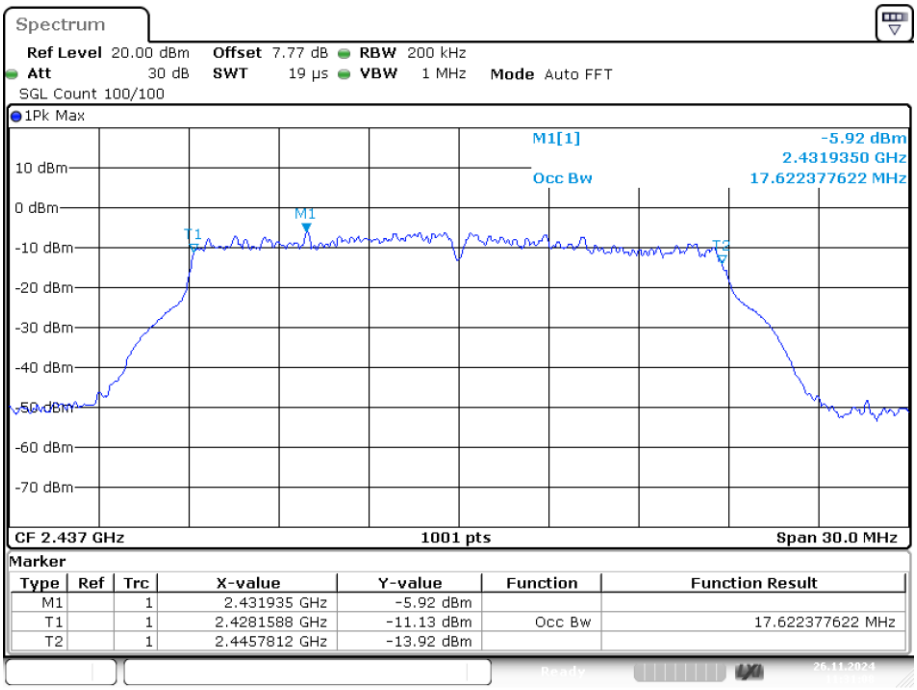
Date: 26.NOV.2024 11:23:51

OBW NVNT n20 2412MHz Ant1



Date: 26.NOV.2024 11:28:57

OBW NVNT n20 2437MHz Ant1



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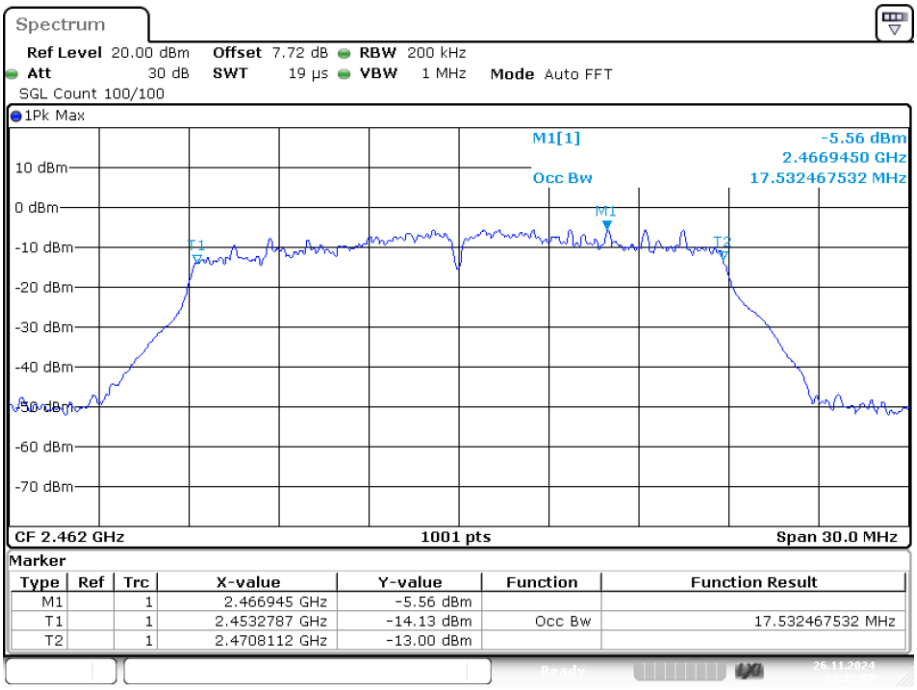
OBW NVNT n20 2462MHz Ant1



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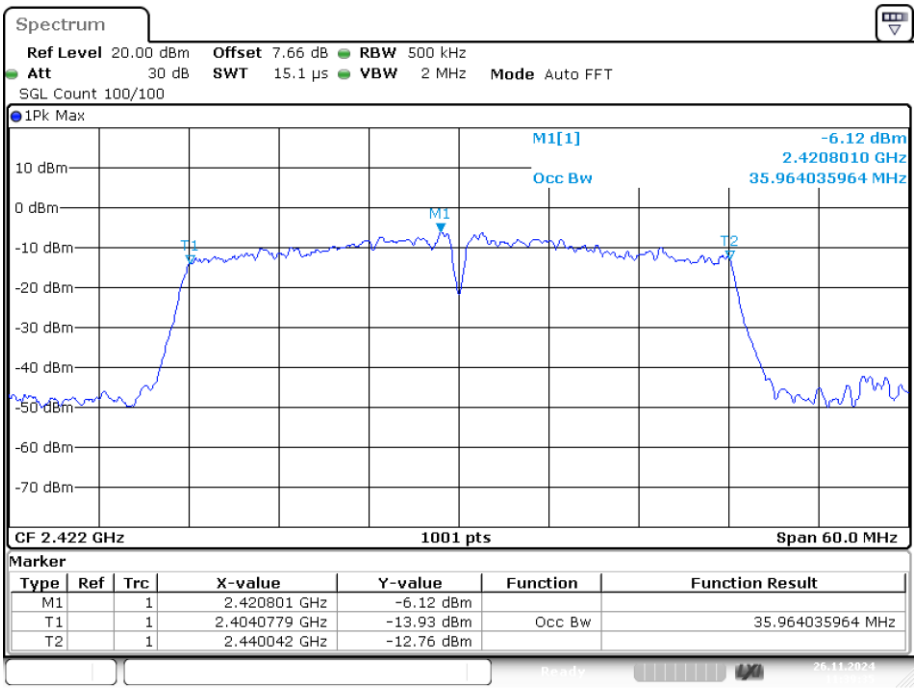
OBW NVNT n40 2422MHz Ant1



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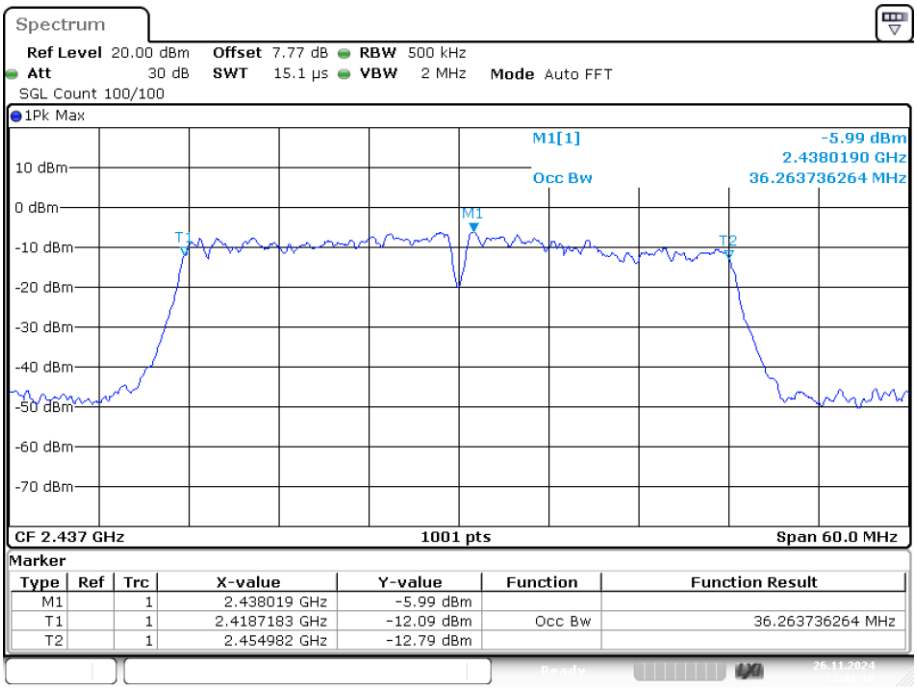
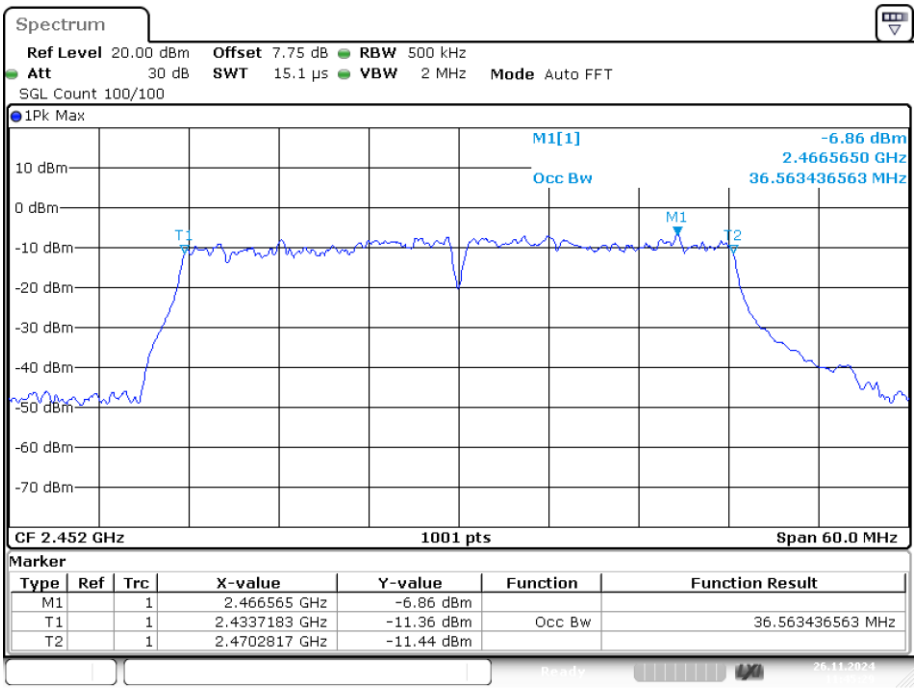
OBW NVNT n40 2437MHz Ant1



Date: 26.NOV.2024 11:42:18

OBW NVNT n40 2452MHz Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.466565 GHz	-6.86 dBm		
T1		1	2.4337183 GHz	-11.36 dBm	Occ Bw	36.563436563 MHz
T2		1	2.4702817 GHz	-11.44 dBm		

Date: 26.NOV.2024 11:45:28

8. BAND EDGE CHECK

8.1. Test limits

Please refer 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.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 1.5m 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.

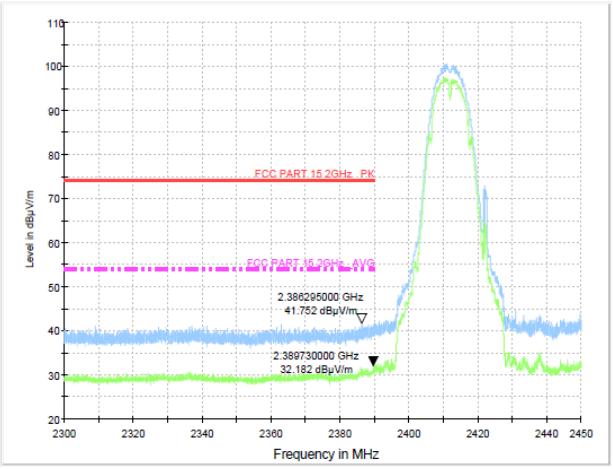
8.4. Test Results

PASS.

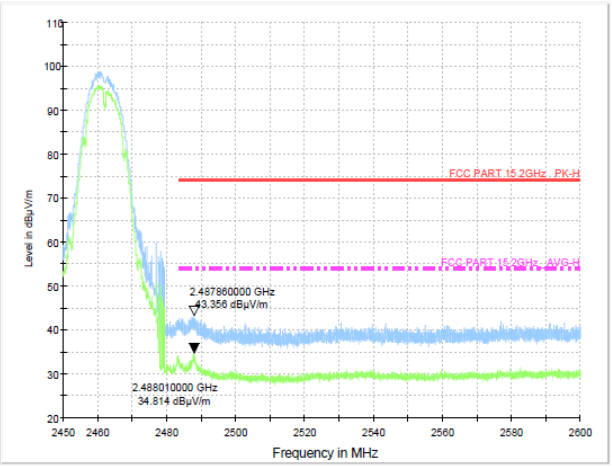
Detailed information please see the following page.

Radiated Method

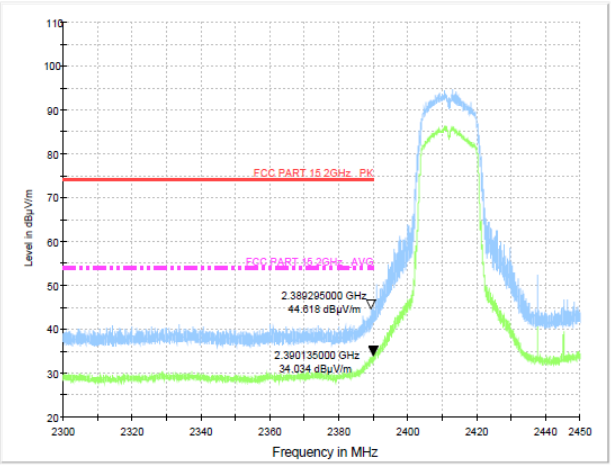
Test Mode: IEEE 802.11b-Low



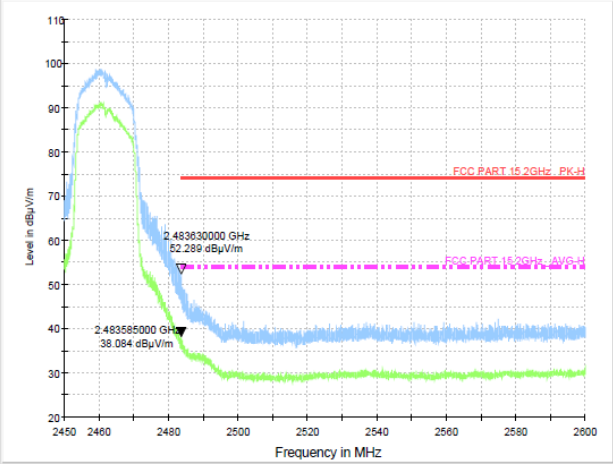
Test Mode: IEEE 802.11b-High



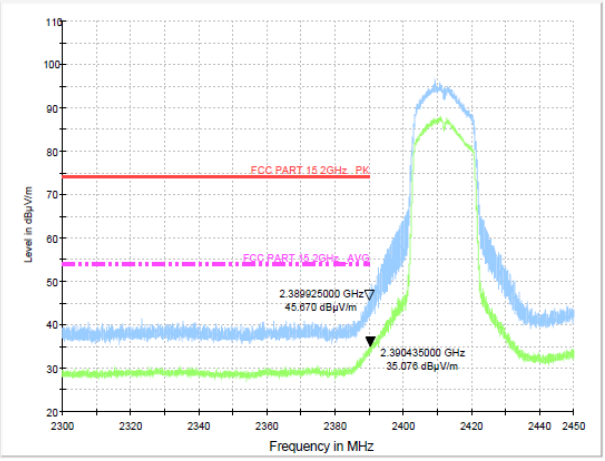
Test Mode: IEEE 802.11g-Low



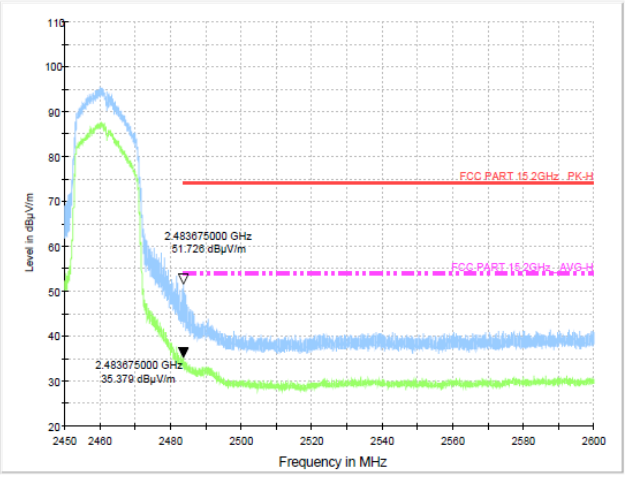
Test Mode: IEEE 802.11g-High



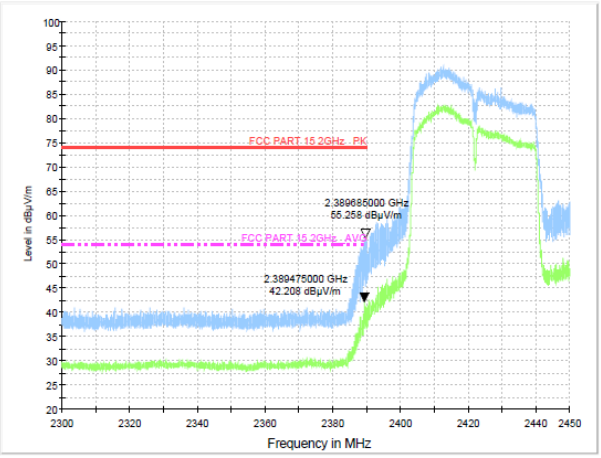
Test Mode: IEEE 802.11n20-Low



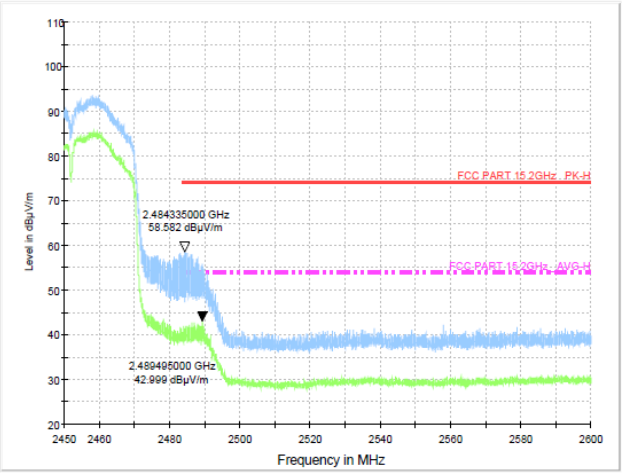
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

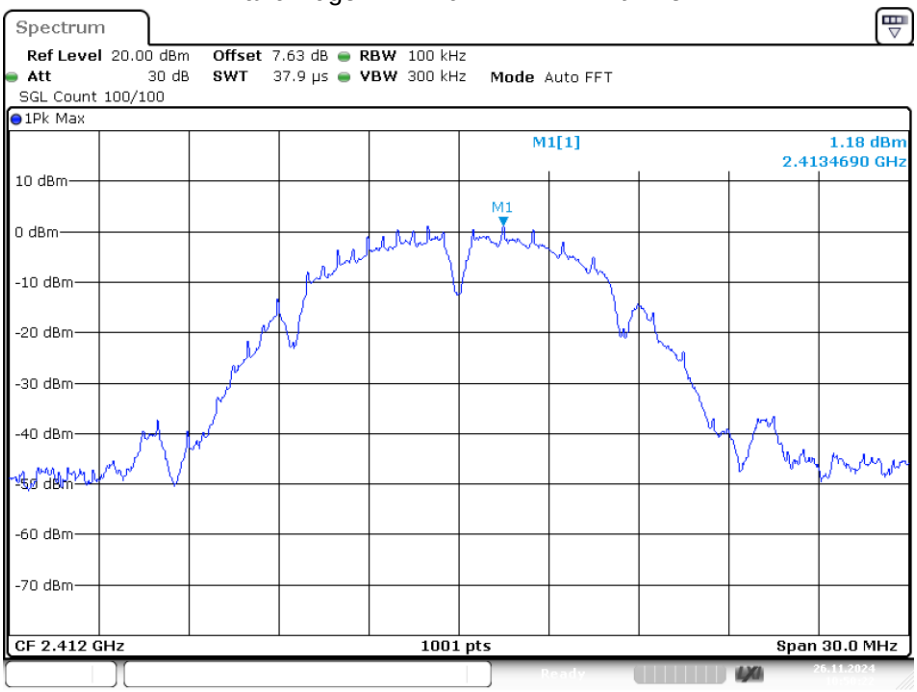


Test Mode: IEEE 802.11n40-High



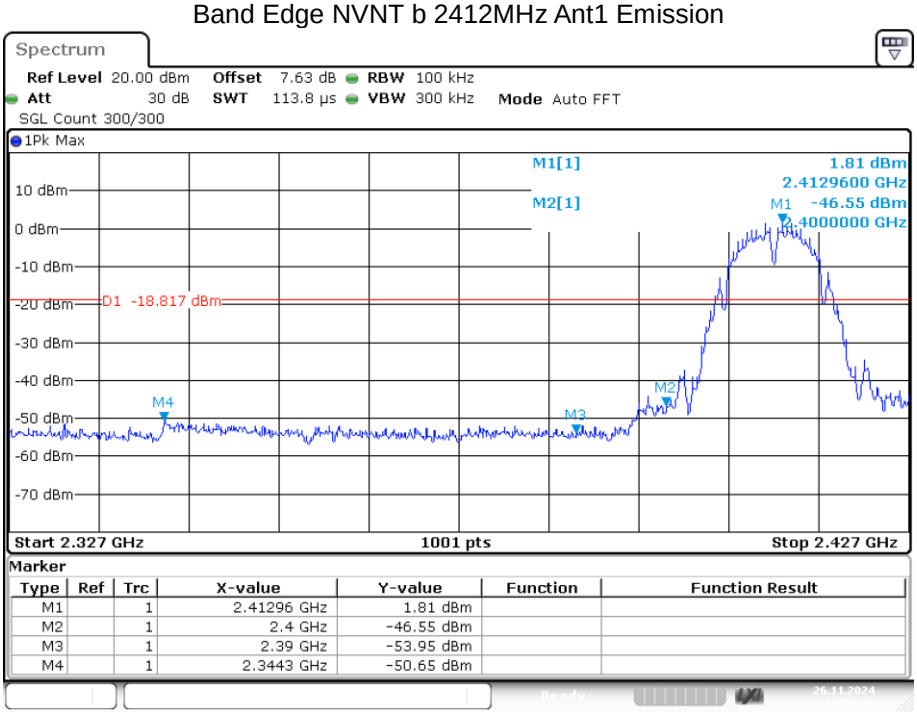
Conducted Method

Band Edge NVNT b 2412MHz Ant1 Ref



Date: 26.NOV.2024 10:50:21

Band Edge NVNT b 2412MHz Ant1 Emission

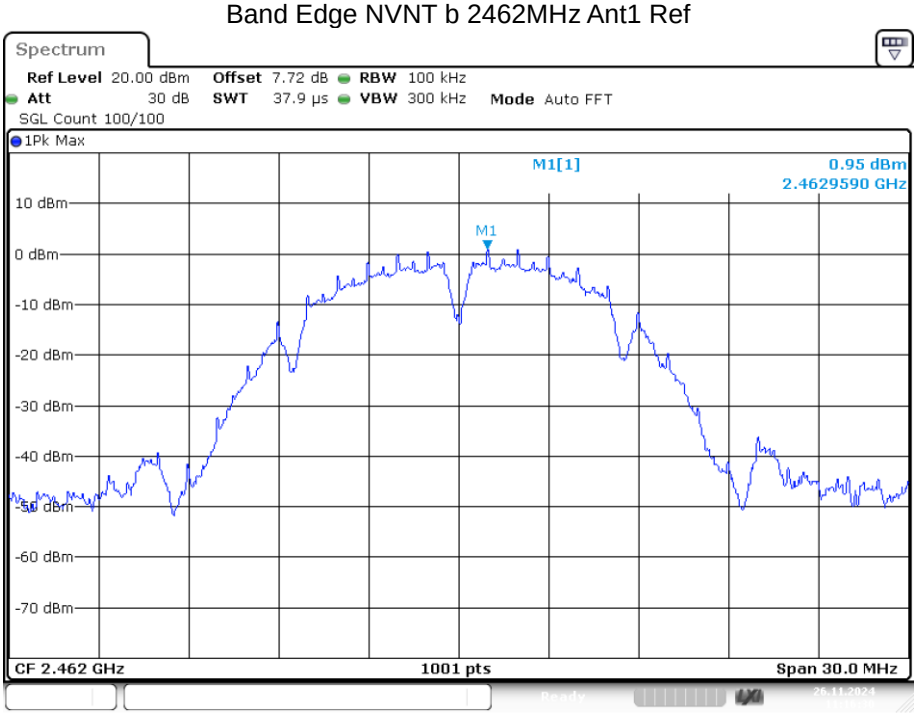


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41296 GHz	1.81 dBm		
M2		1	2.4 GHz	-46.55 dBm		
M3		1	2.39 GHz	-53.95 dBm		
M4		1	2.3443 GHz	-50.65 dBm		

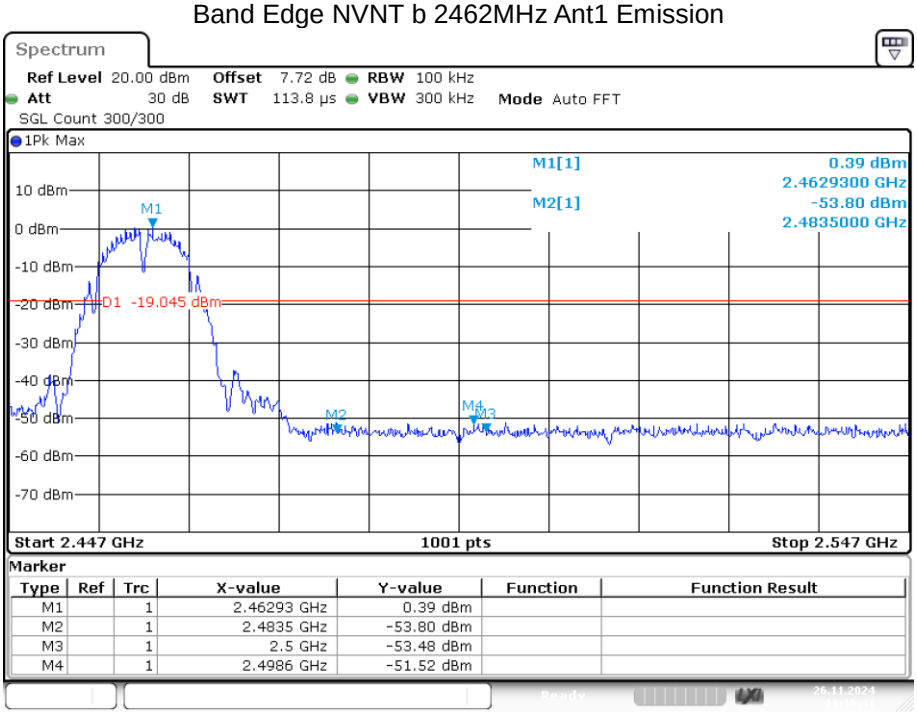
Date: 26.NOV.2024 10:50:33

Band Edge NVNT b 2462MHz Ant1 Ref



Date: 26.NOV.2024 11:16:30

Band Edge NVNT b 2462MHz Ant1 Emission

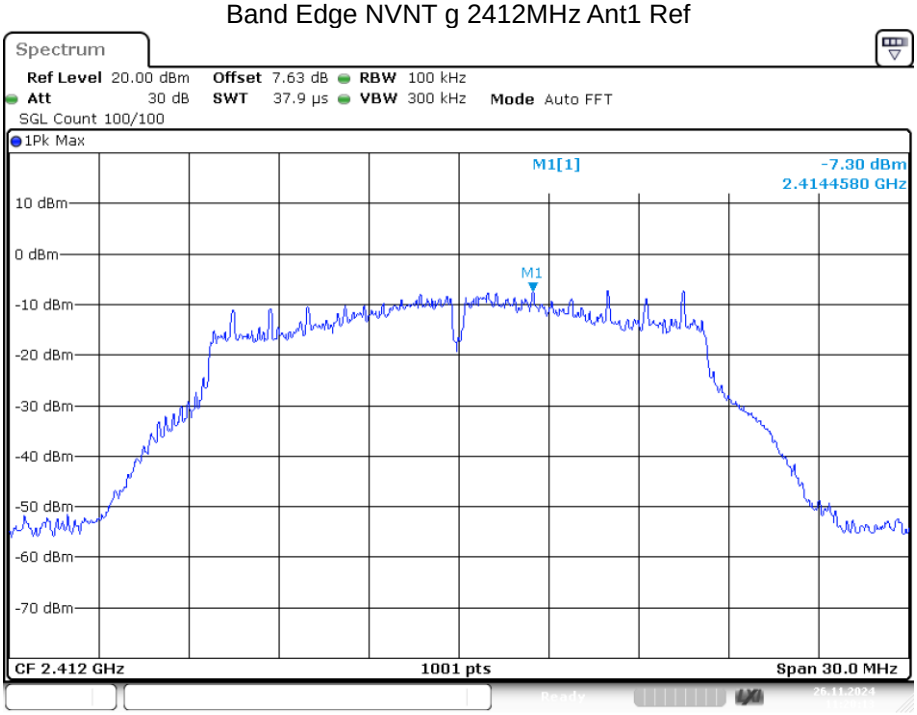


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46293 GHz	0.39 dBm		
M2		1	2.4835 GHz	-53.80 dBm		
M3		1	2.5 GHz	-53.48 dBm		
M4		1	2.4986 GHz	-51.52 dBm		

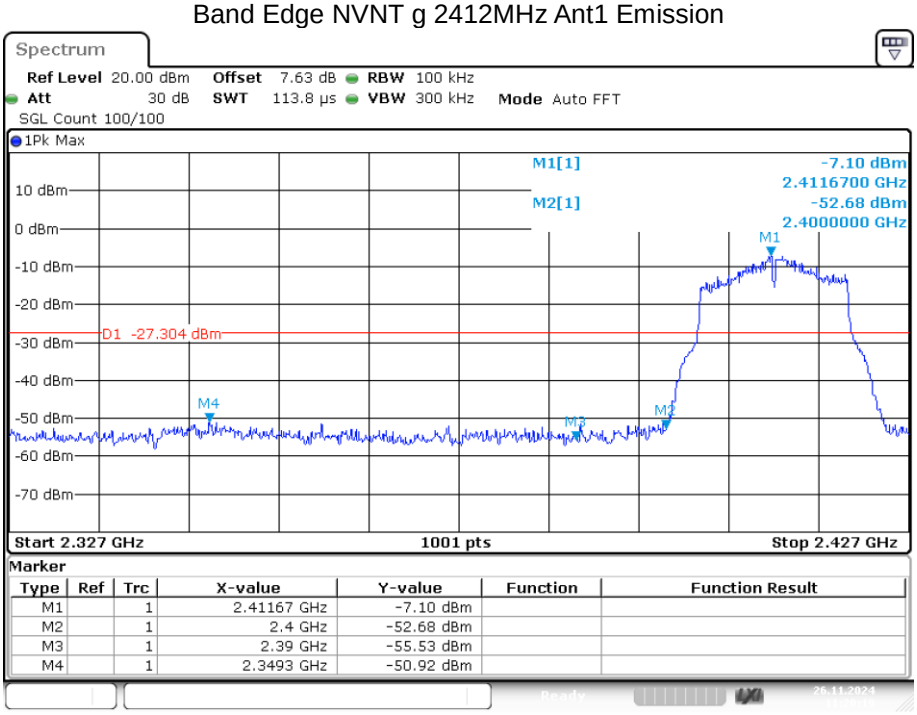
Date: 26.NOV.2024 11:16:42

Band Edge NVNT g 2412MHz Ant1 Ref



Date: 26.NOV.2024 11:20:13

Band Edge NVNT g 2412MHz Ant1 Emission

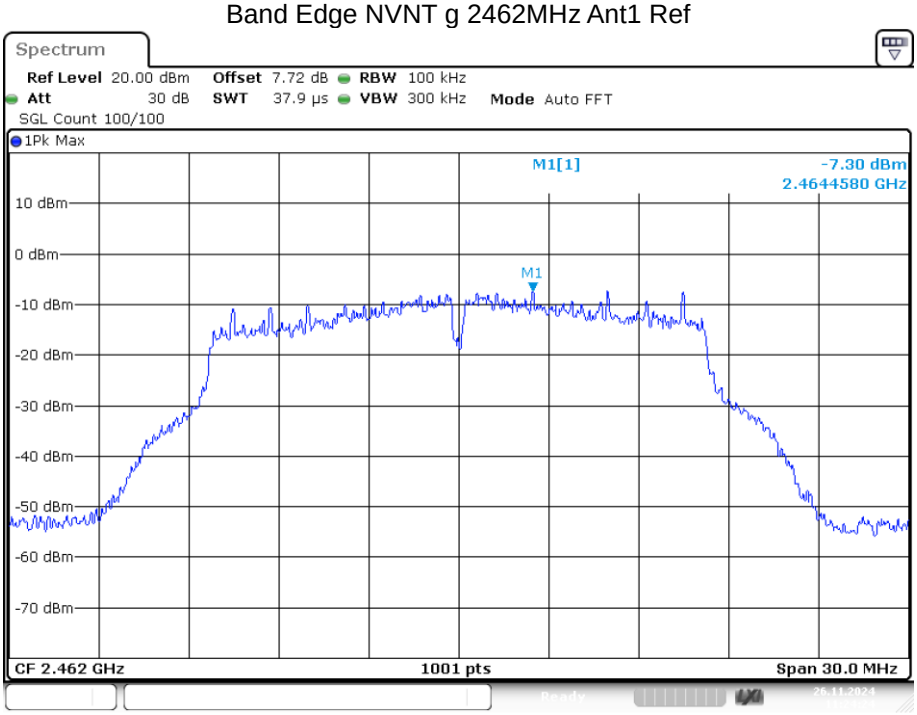


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41167 GHz	-7.10 dBm		
M2		1	2.4 GHz	-52.68 dBm		
M3		1	2.39 GHz	-55.53 dBm		
M4		1	2.3493 GHz	-50.92 dBm		

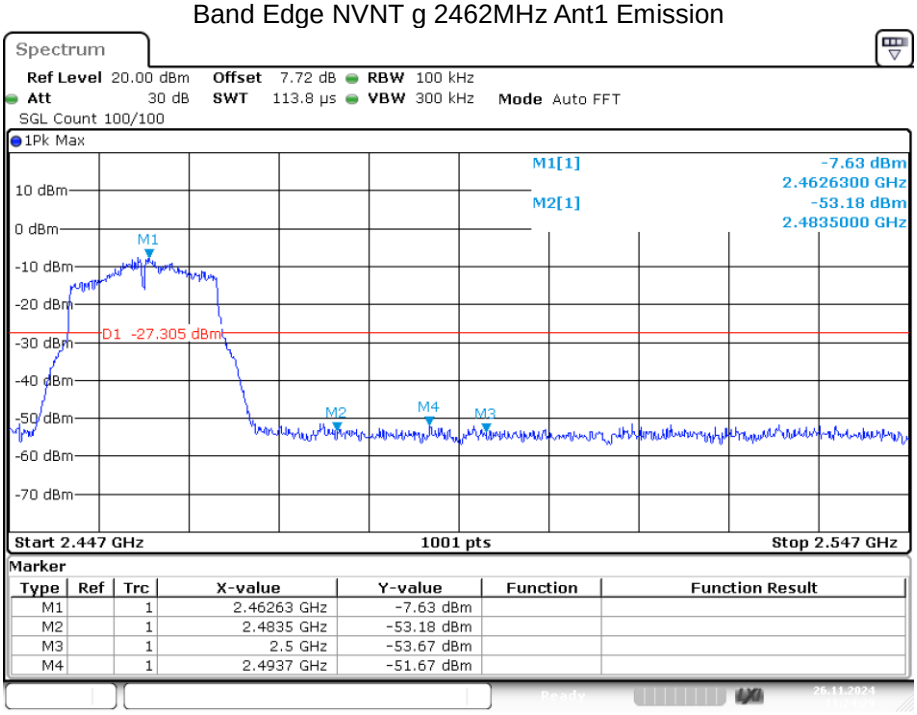
Date: 26.NOV.2024 11:20:19

Band Edge NVNT g 2462MHz Ant1 Ref



Date: 26.NOV.2024 11:24:24

Band Edge NVNT g 2462MHz Ant1 Emission

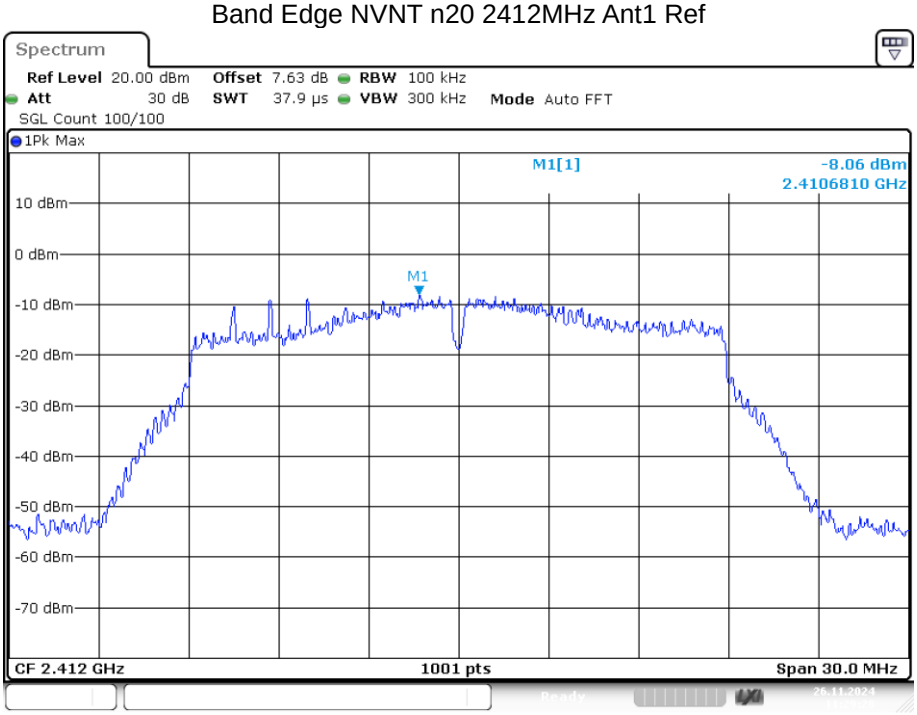


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46263 GHz	-7.63 dBm		
M2		1	2.4835 GHz	-53.18 dBm		
M3		1	2.5 GHz	-53.67 dBm		
M4		1	2.4937 GHz	-51.67 dBm		

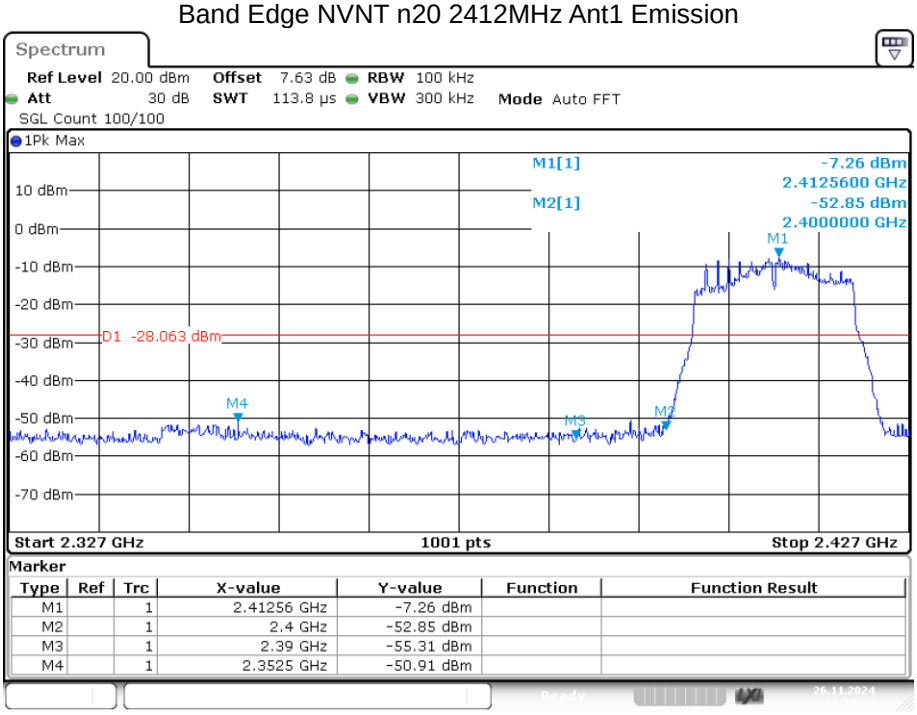
Date: 26.NOV.2024 11:24:30

Band Edge NVNT n20 2412MHz Ant1 Ref



Date: 26.NOV.2024 11:29:28

Band Edge NVNT n20 2412MHz Ant1 Emission

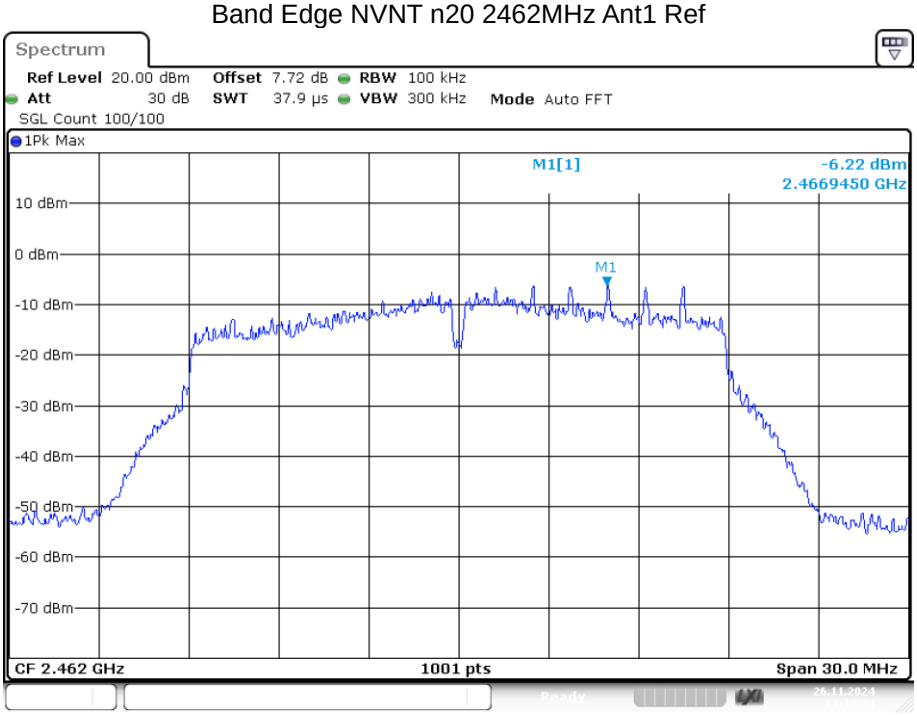


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41256 GHz	-7.26 dBm		
M2		1	2.4 GHz	-52.85 dBm		
M3		1	2.39 GHz	-55.31 dBm		
M4		1	2.3525 GHz	-50.91 dBm		

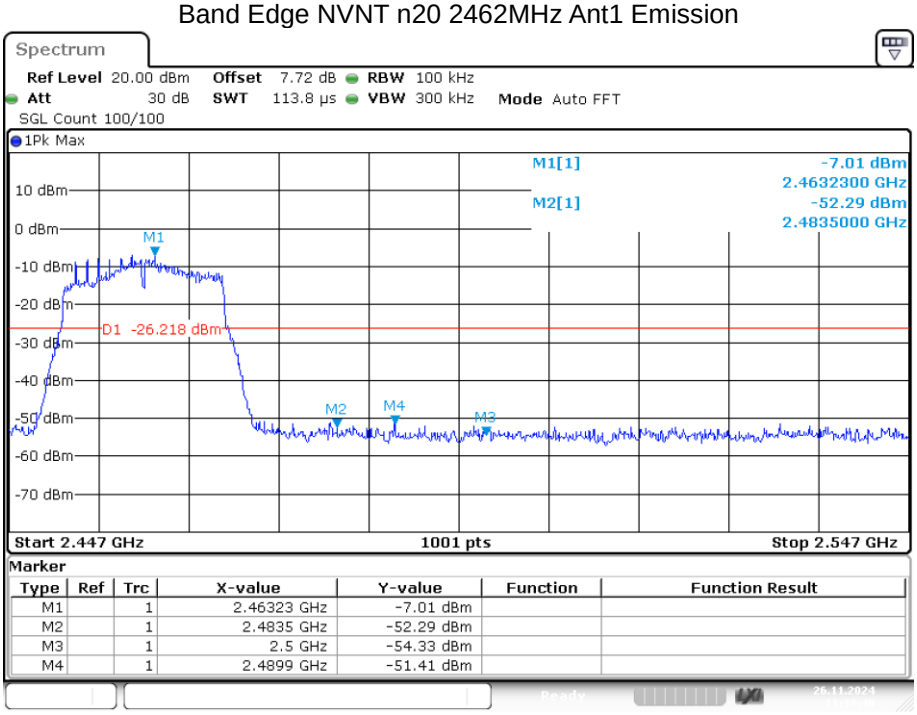
Date: 26.NOV.2024 11:29:34

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 26.NOV.2024 11:33:34

Band Edge NVNT n20 2462MHz Ant1 Emission

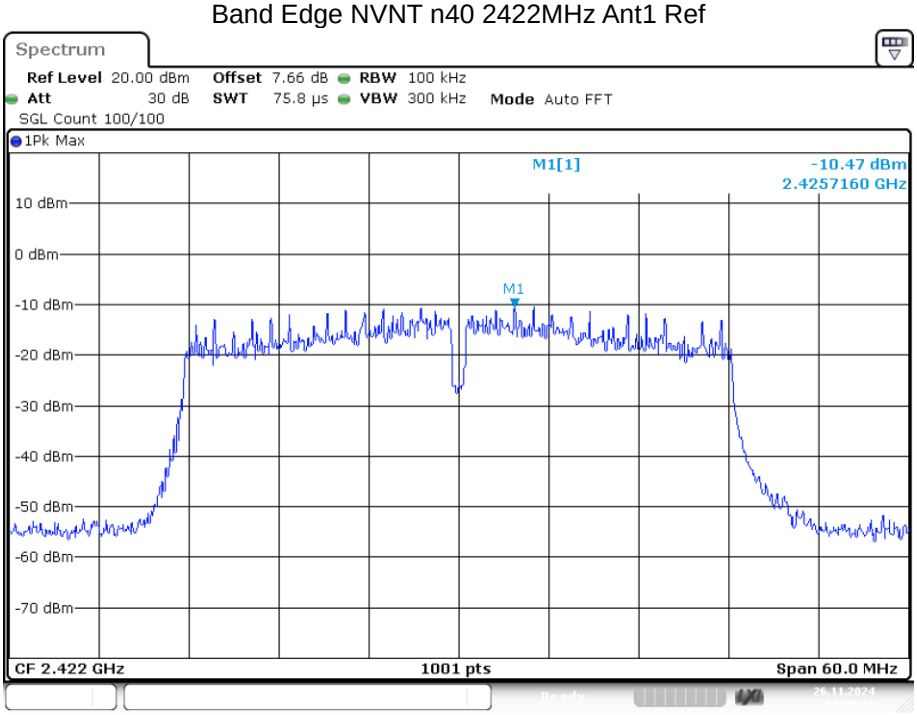


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46323 GHz	-7.01 dBm		
M2		1	2.4835 GHz	-52.29 dBm		
M3		1	2.5 GHz	-54.33 dBm		
M4		1	2.4899 GHz	-51.41 dBm		

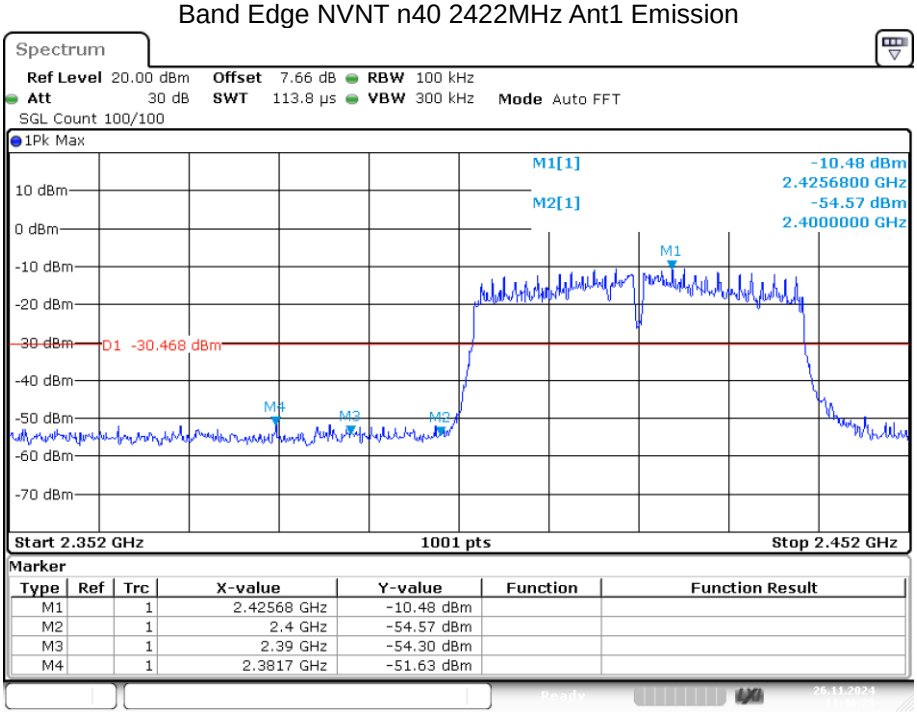
Date: 26.NOV.2024 11:33:40

Band Edge NVNT n40 2422MHz Ant1 Ref



Date: 26.NOV.2024 11:40:18

Band Edge NVNT n40 2422MHz Ant1 Emission

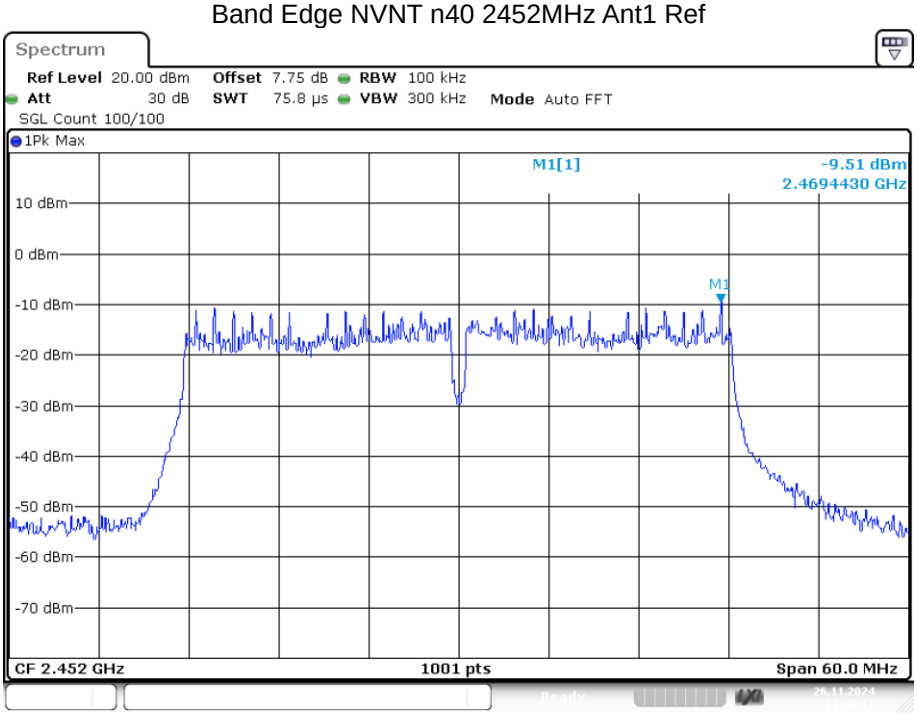


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42568 GHz	-10.48 dBm		
M2		1	2.4 GHz	-54.57 dBm		
M3		1	2.39 GHz	-54.30 dBm		
M4		1	2.3817 GHz	-51.63 dBm		

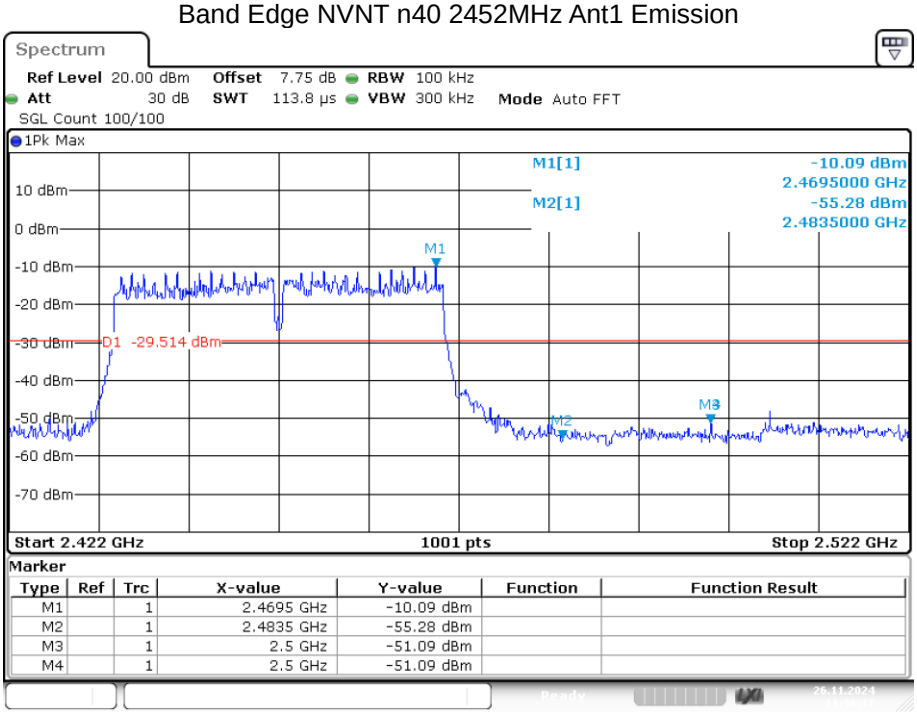
Date: 26.NOV.2024 11:40:24

Band Edge NVNT n40 2452MHz Ant1 Ref



Date: 26.NOV.2024 11:46:11

Band Edge NVNT n40 2452MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4695 GHz	-10.09 dBm		
M2		1	2.4835 GHz	-55.28 dBm		
M3		1	2.5 GHz	-51.09 dBm		
M4		1	2.5 GHz	-51.09 dBm		

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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

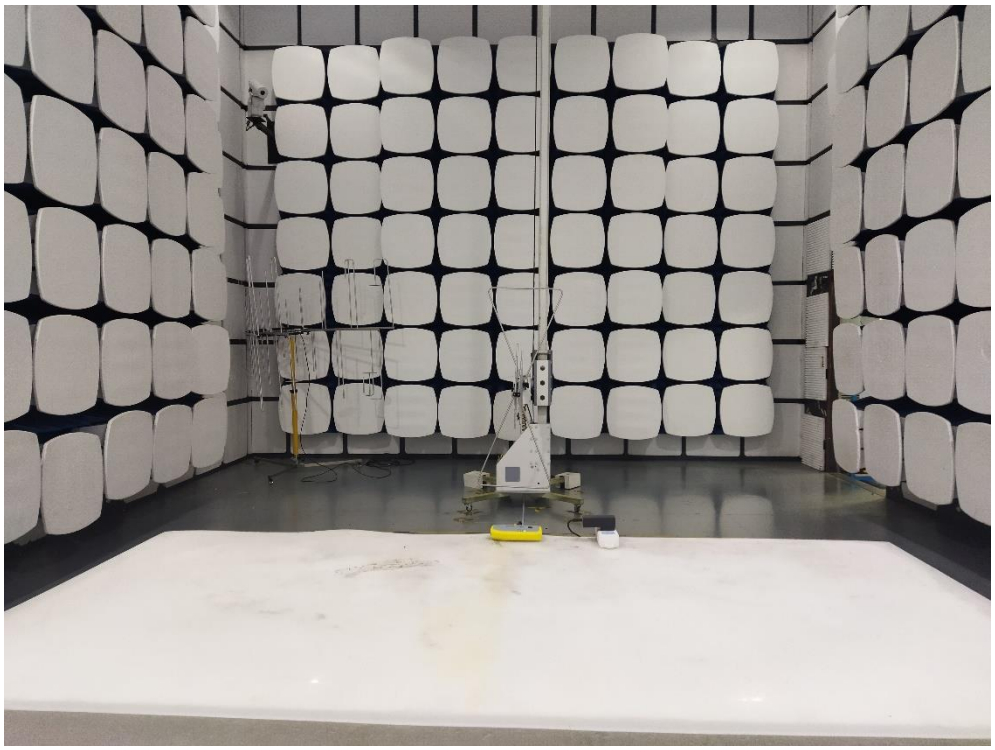
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

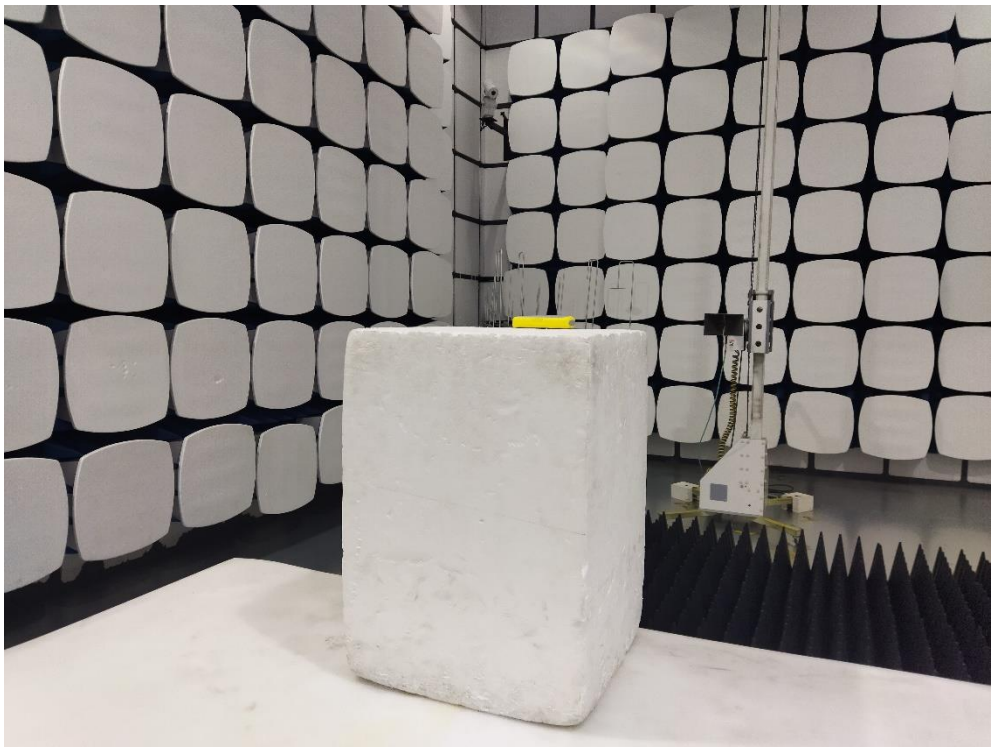
9.3. Results

The EUT antenna is integrated antenna. It complies with the standard requirement.

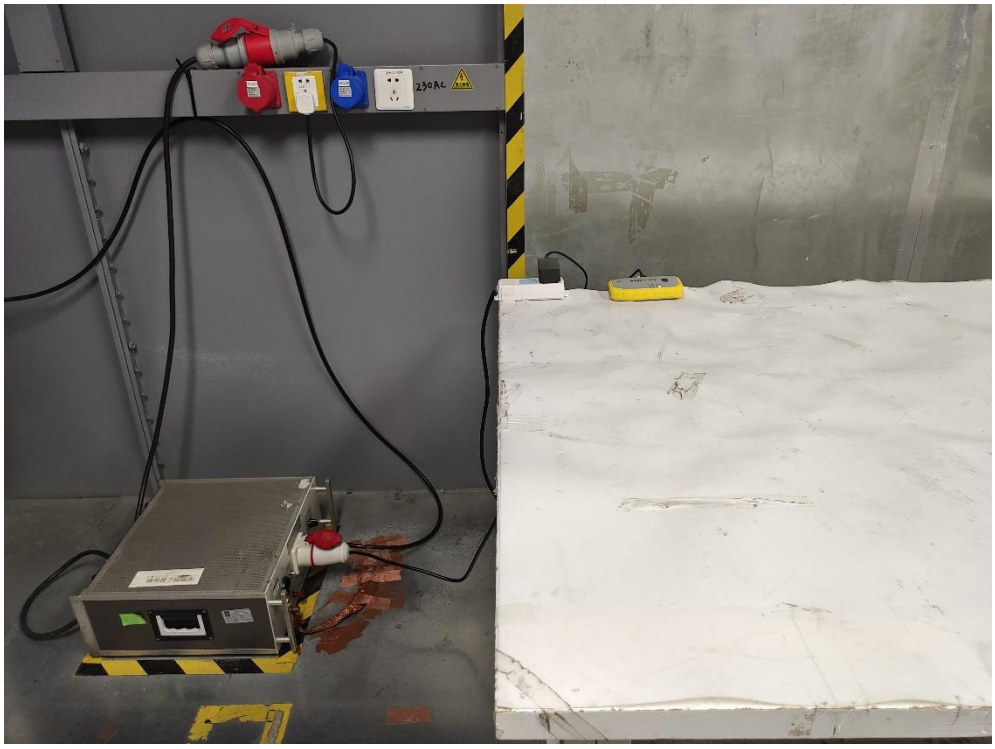
10. TEST SETUP PHOTO

10.1. Photos of Radiated emission





10.2.Power Line Conducted Emissions



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