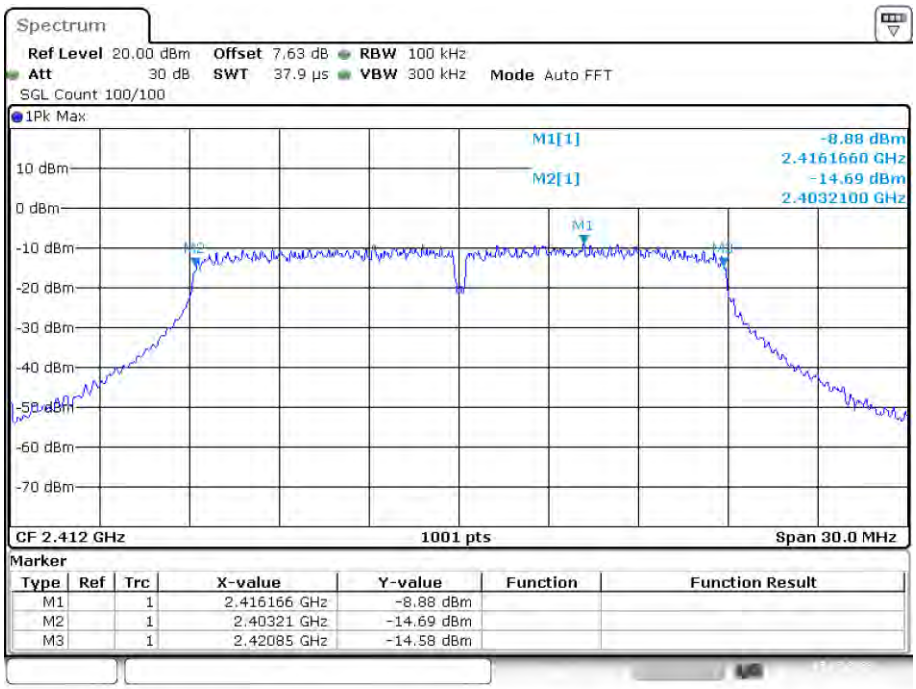
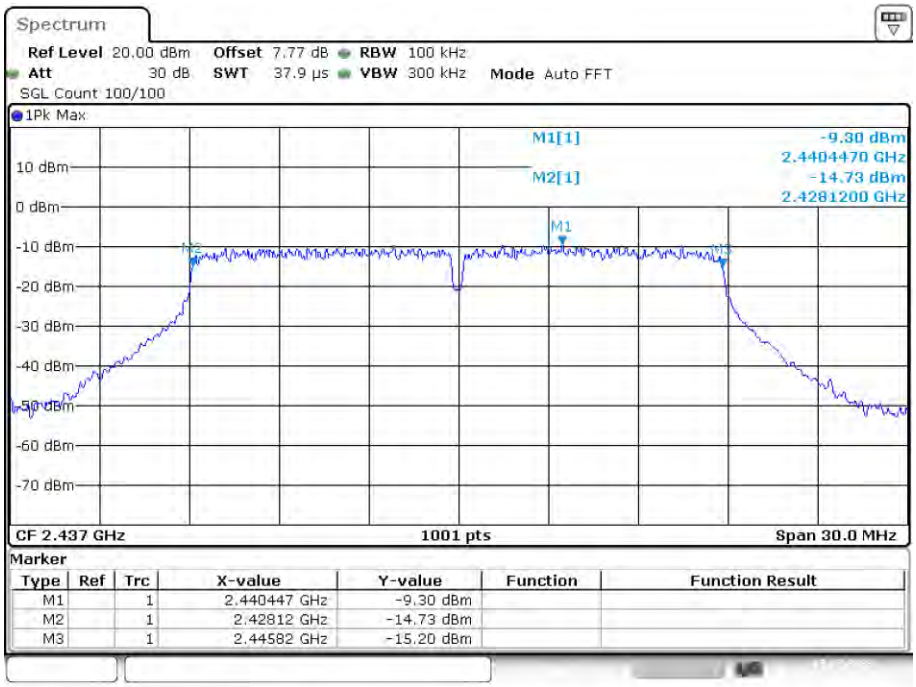
-6dB Bandwidth NVNT n20 2412MHz Ant1



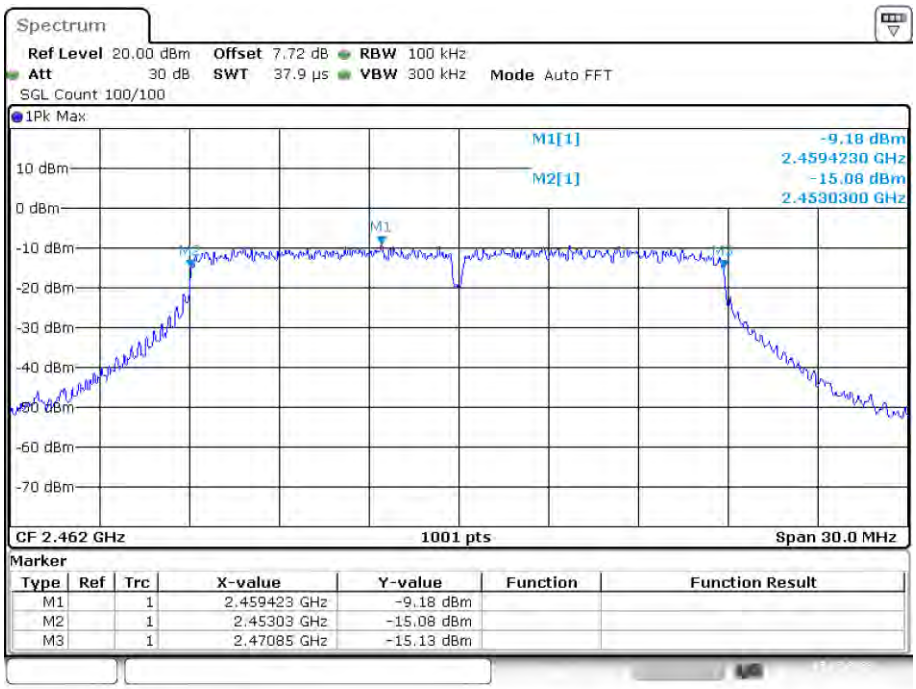
Date: 7.JUL.2023 11:14:24

-6dB Bandwidth NVNT n20 2437MHz Ant1



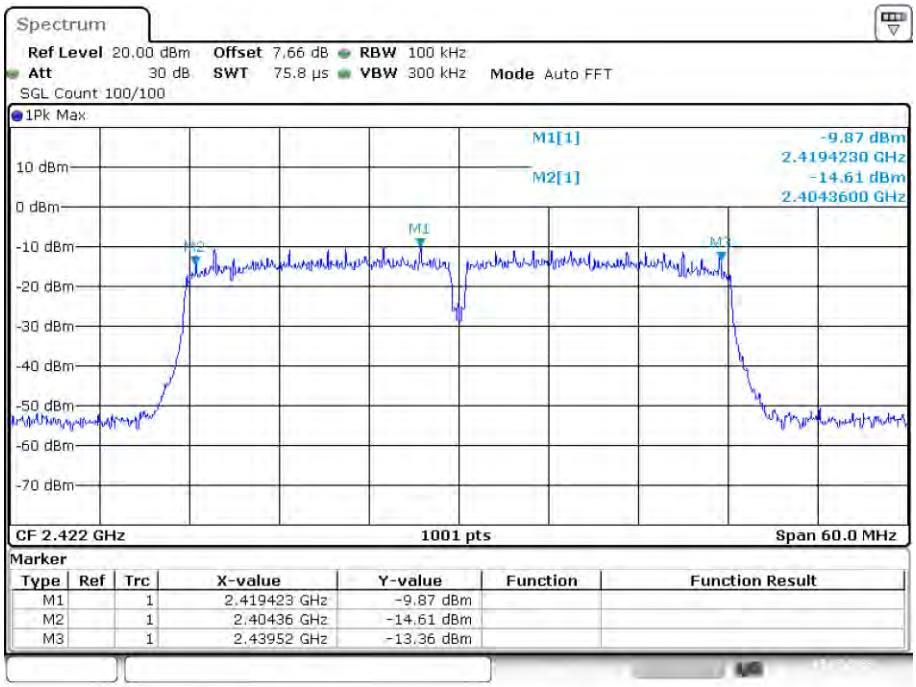
Date: 7.JUL.2023 11:26:31

-6dB Bandwidth NVNT n20 2462MHz Ant1



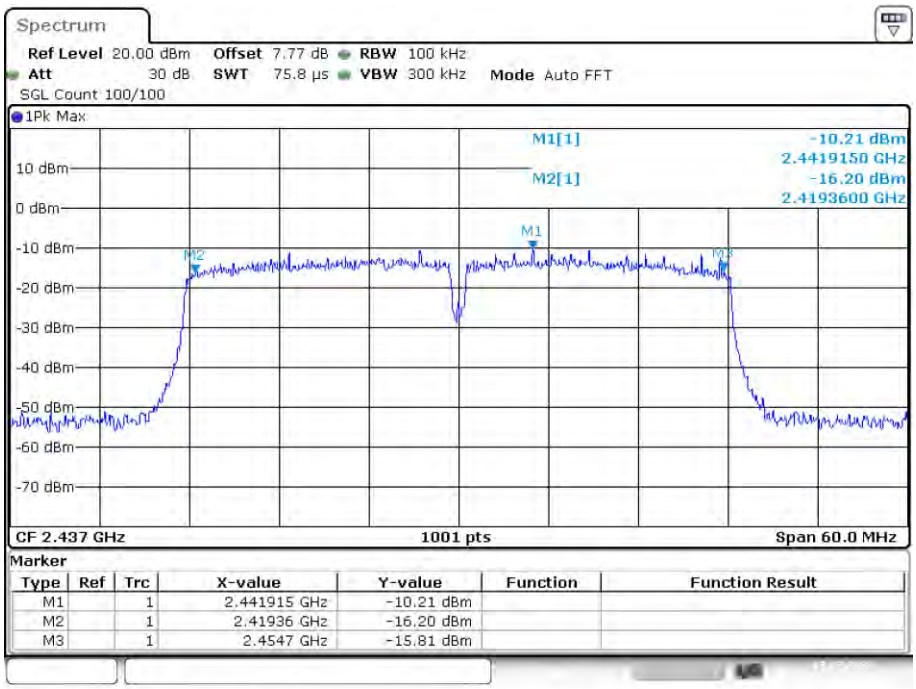
Date: 7.JUL.2023 11:29:39

-6dB Bandwidth NVNT n40 2422MHz Ant1



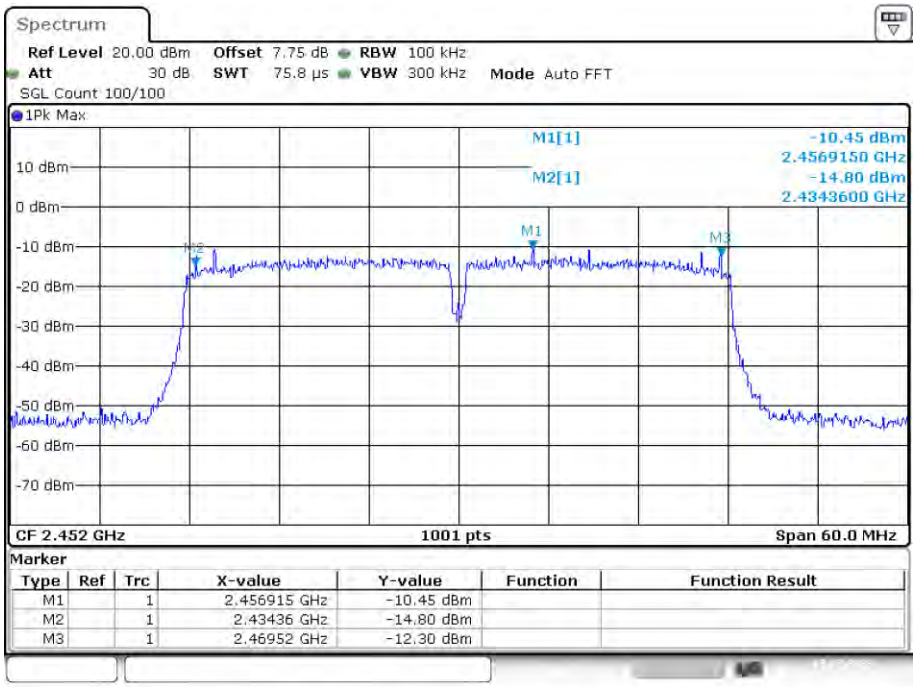
Date: 7.JUL.2023 11:34:14

-6dB Bandwidth NVNT n40 2437MHz Ant1



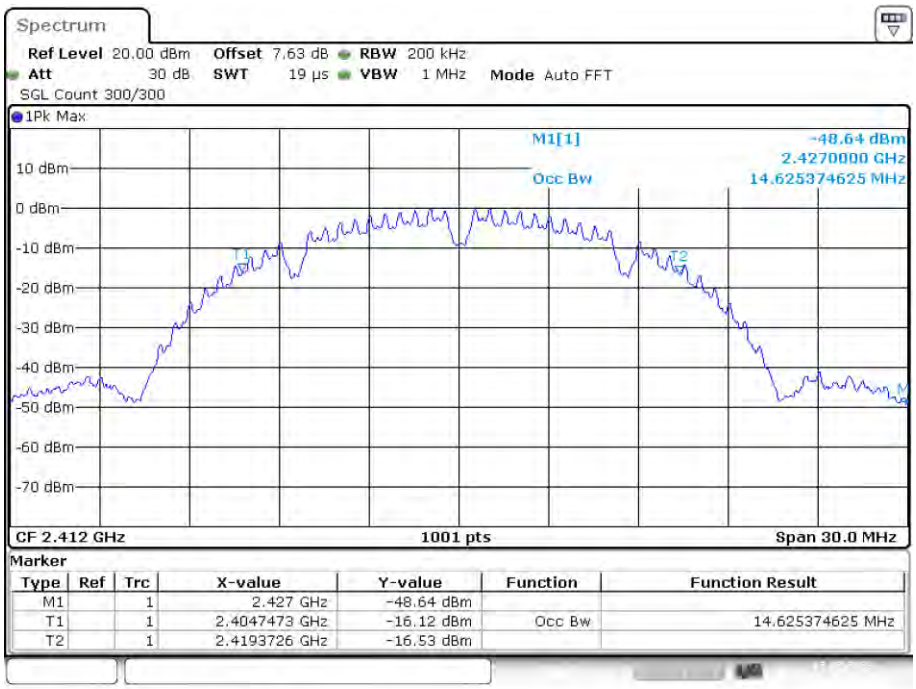
Date: 7.JUL.2023 11:39:50

-6dB Bandwidth NVNT n40 2452MHz Ant1



Date: 7.JUL.2023 11:42:50

OBW NVNT b 2412MHz Ant1

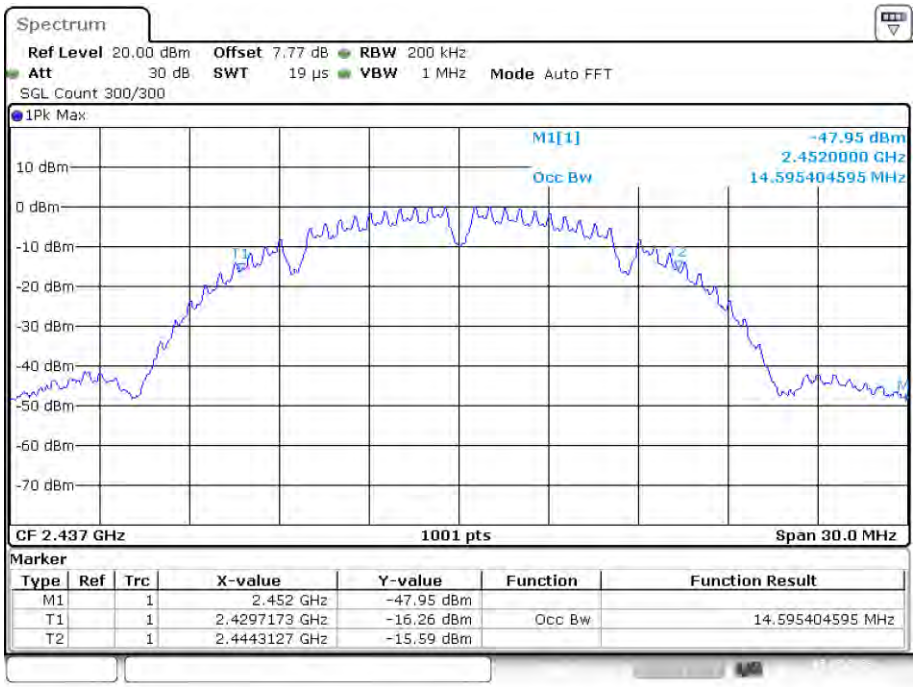


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.427 GHz	-48.64 dBm		
T1		1	2.4047473 GHz	-16.12 dBm	Occ Bw	14.625374625 MHz
T2		1	2.4193726 GHz	-16.53 dBm		

Date: 7.JUL.2023 10:19:18

OBW NVNT b 2437MHz Ant1

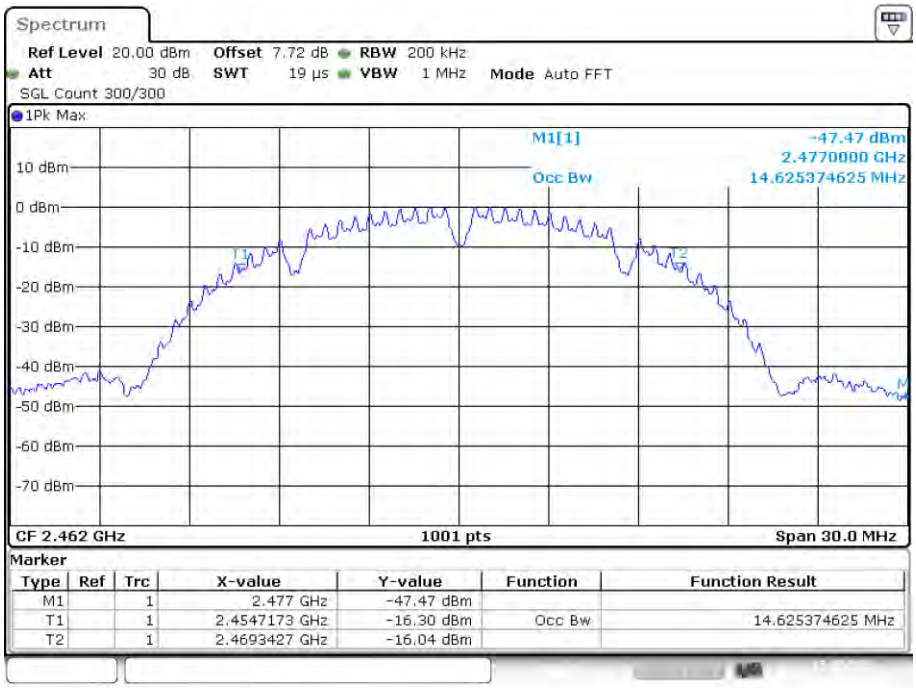


Marker

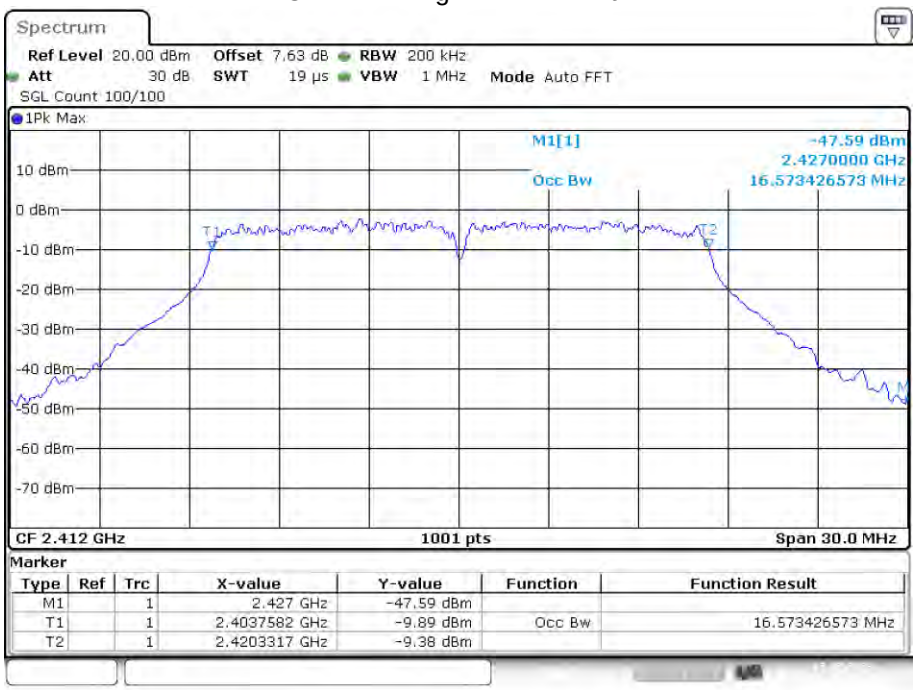
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.452 GHz	-47.95 dBm		
T1		1	2.4297173 GHz	-16.26 dBm	Occ Bw	14.595404595 MHz
T2		1	2.4443127 GHz	-15.59 dBm		

Date: 7.JUL.2023 10:51:13

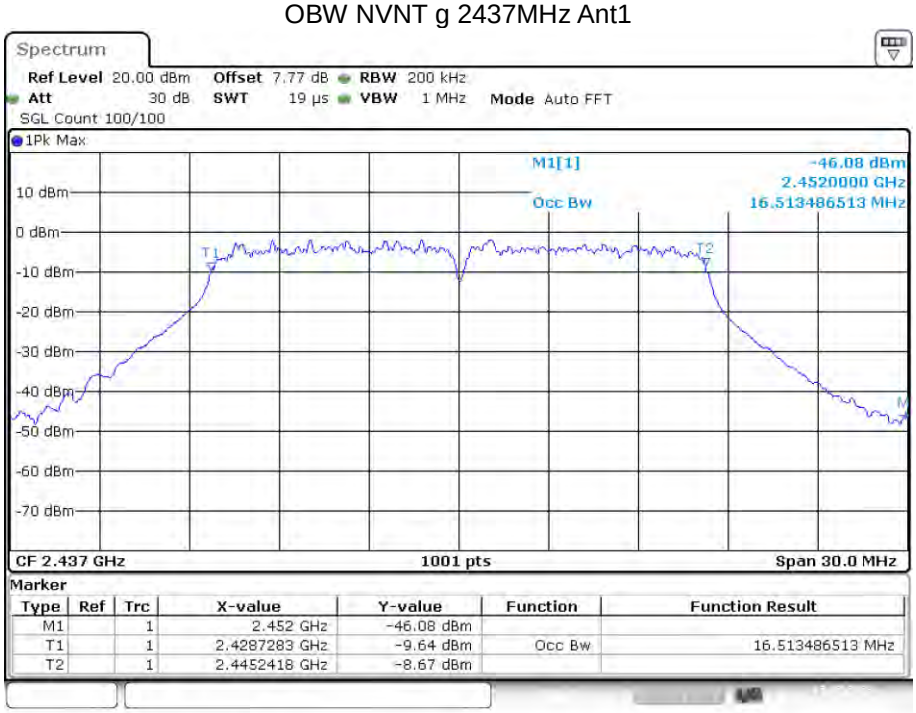
OBW NVNT b 2462MHz Ant1



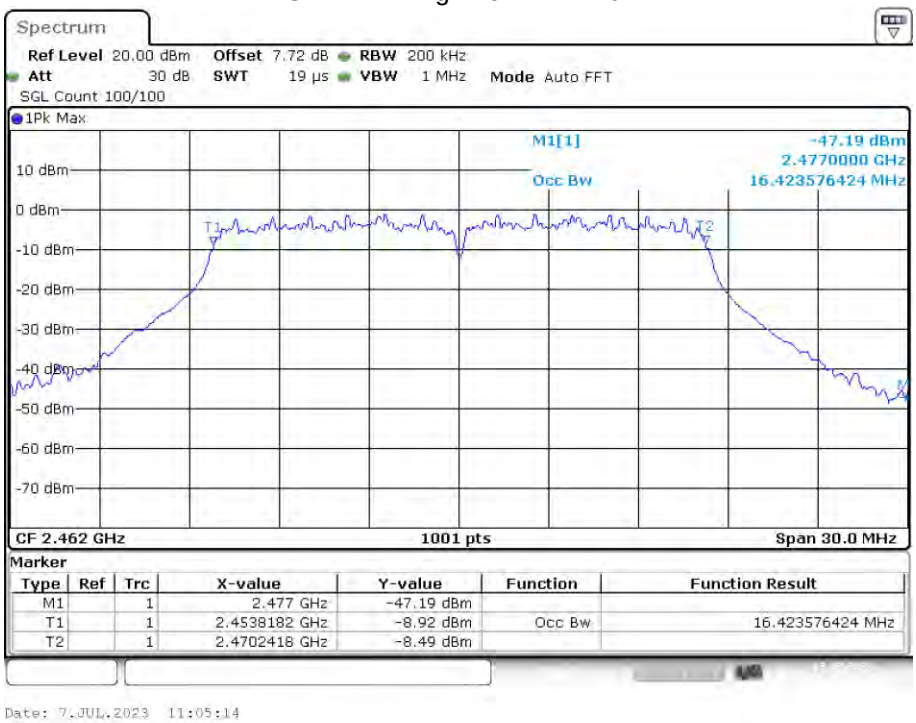
OBW NVNT g 2412MHz Ant1



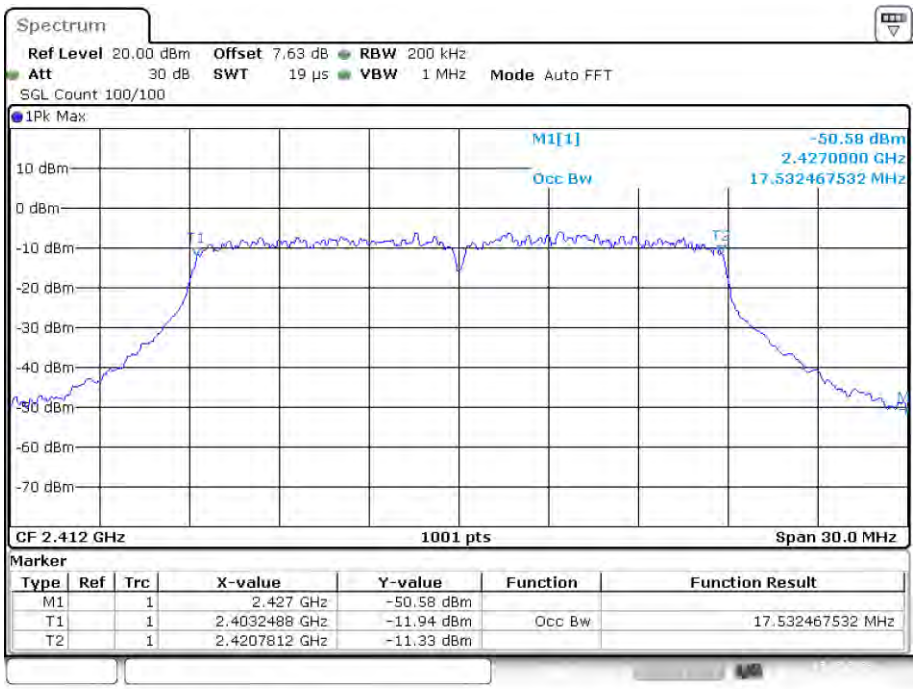
OBW NVNT g 2437MHz Ant1



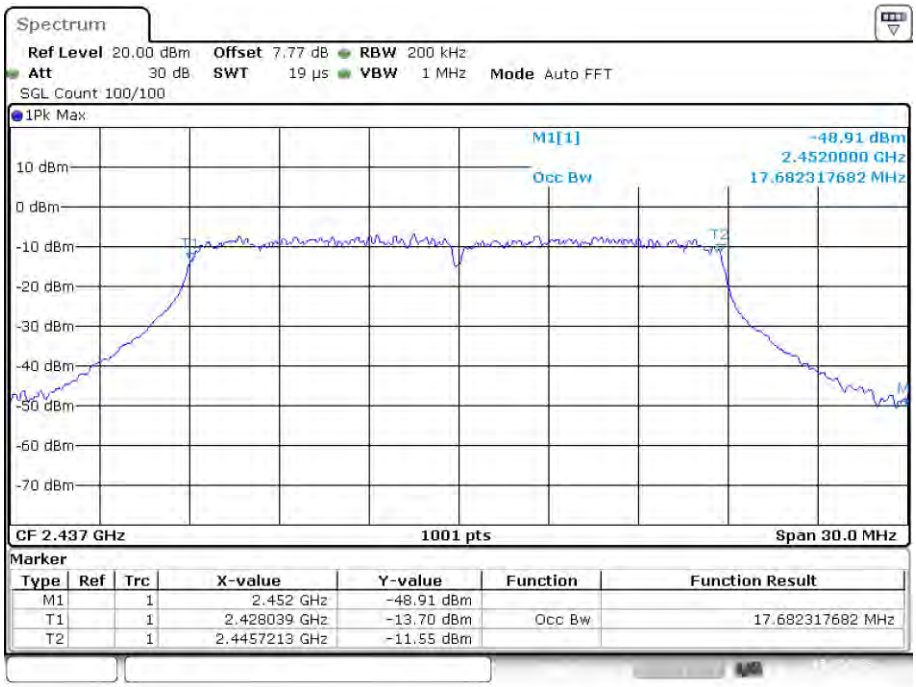
OBW NVNT g 2462MHz Ant1



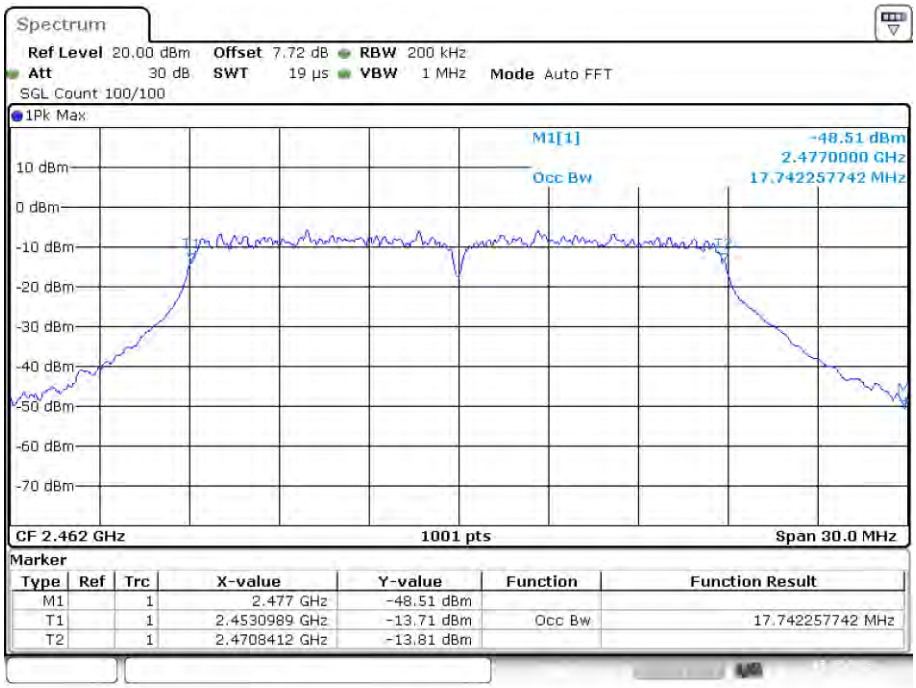
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1

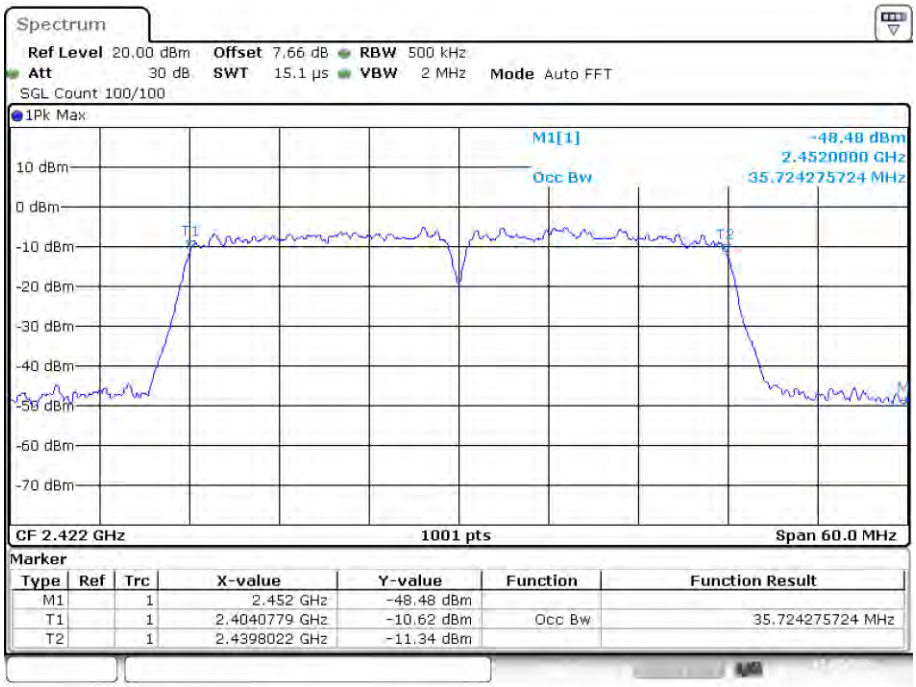


OBW NVNT n20 2462MHz Ant1



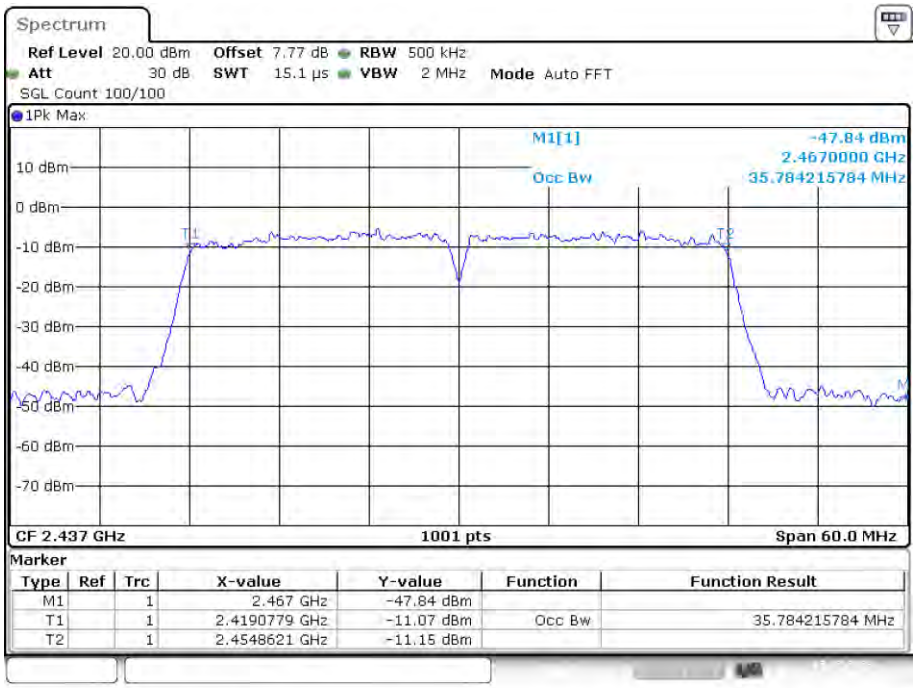
Date: 7.JUL.2023 11:29:16

OBW NVNT n40 2422MHz Ant1



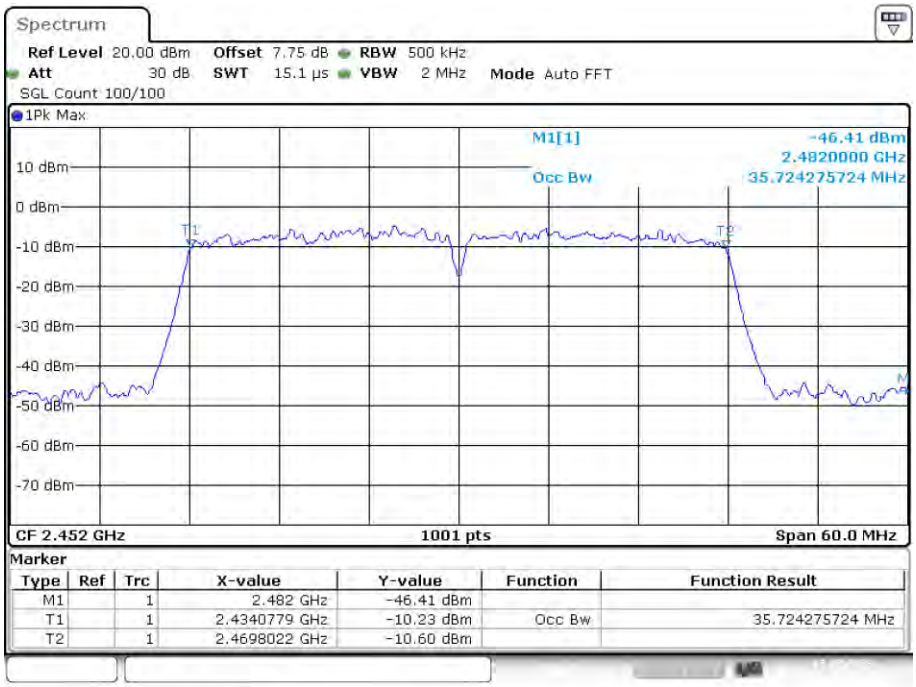
Date: 7.JUL.2023 11:33:57

OBW NVNT n40 2437MHz Ant1



Date: 7.JUL.2023 11:39:33

OBW NVNT n40 2452MHz Ant1



Date: 7.JUL.2023 11:42:32

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 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

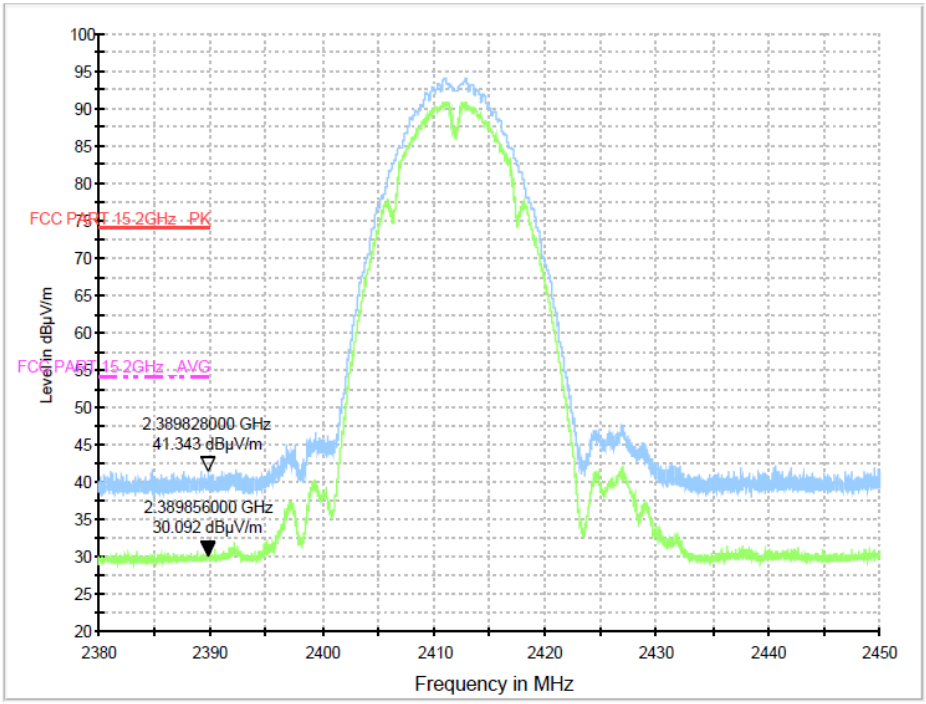
Same as 5.2.2.

8.4. Test Results

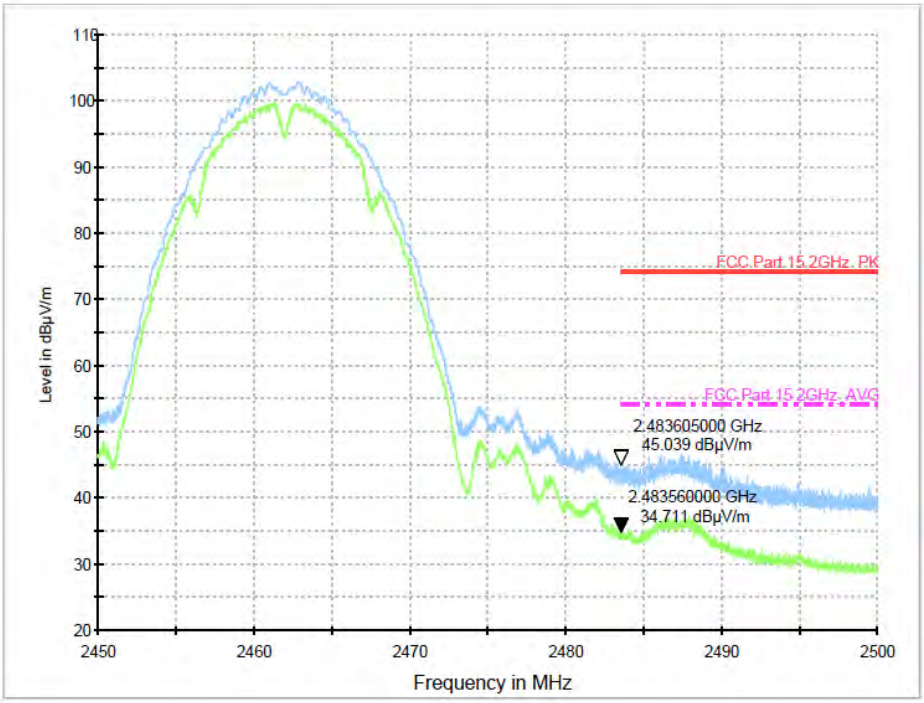
PASS.

Detailed information please see the following page.

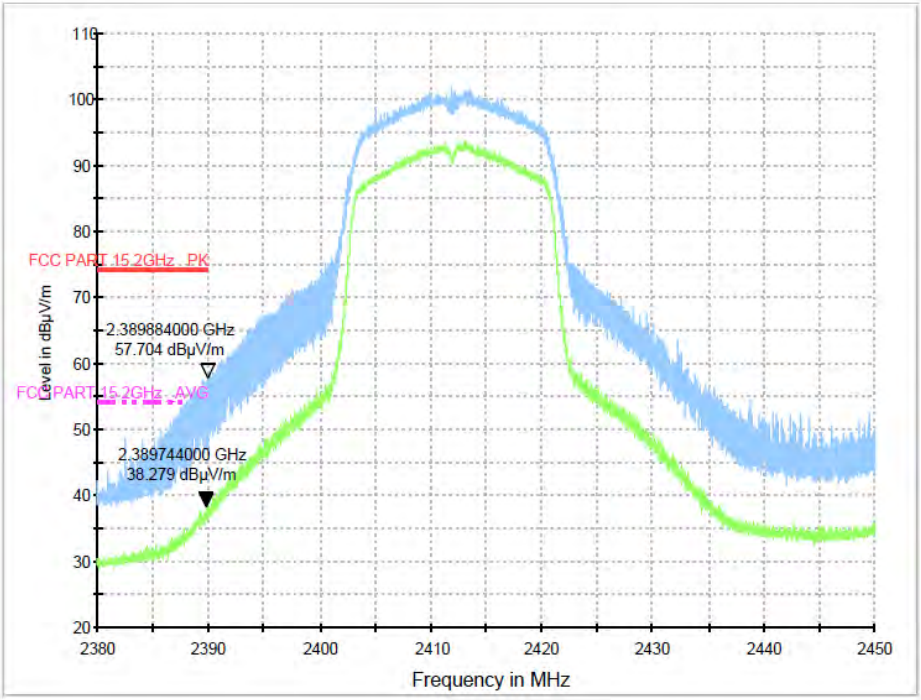
Test Mode: IEEE 802.11b-Low



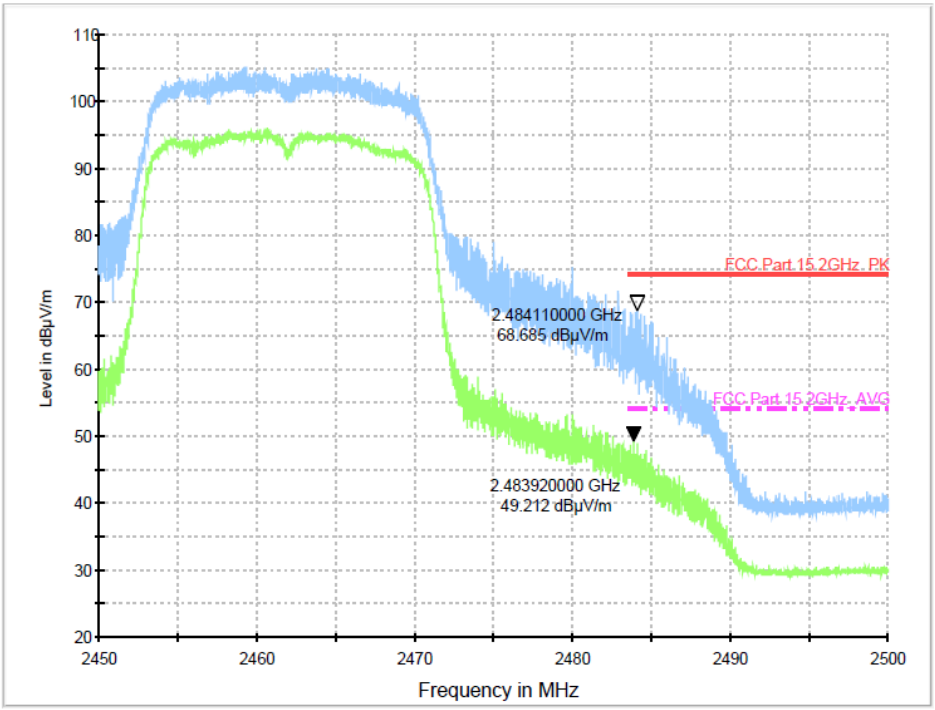
Test Mode: IEEE 802.11b-High



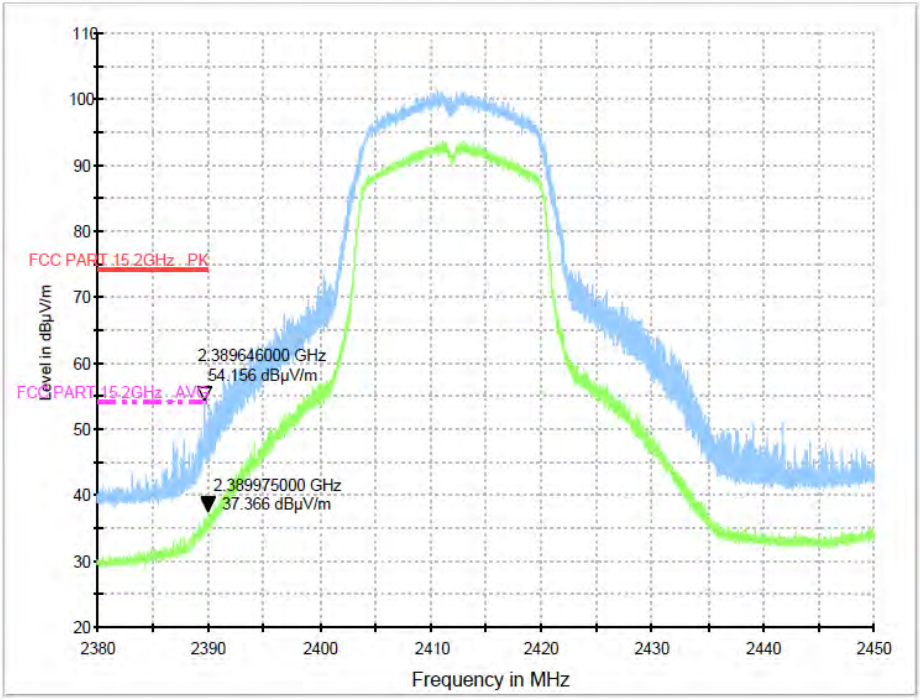
Test Mode: IEEE 802.11g-Low



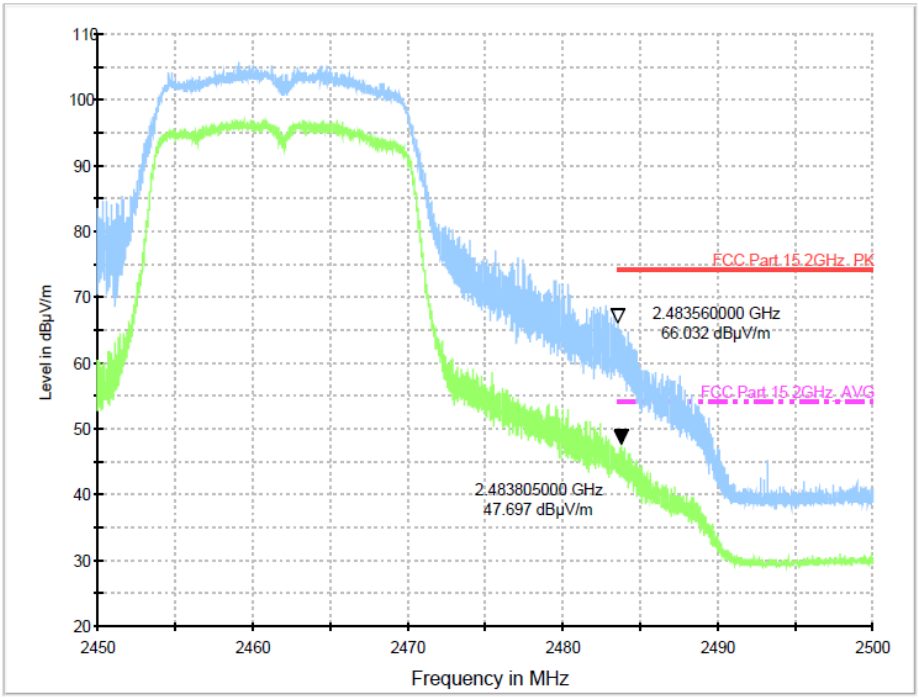
Test Mode: IEEE 802.11g-High



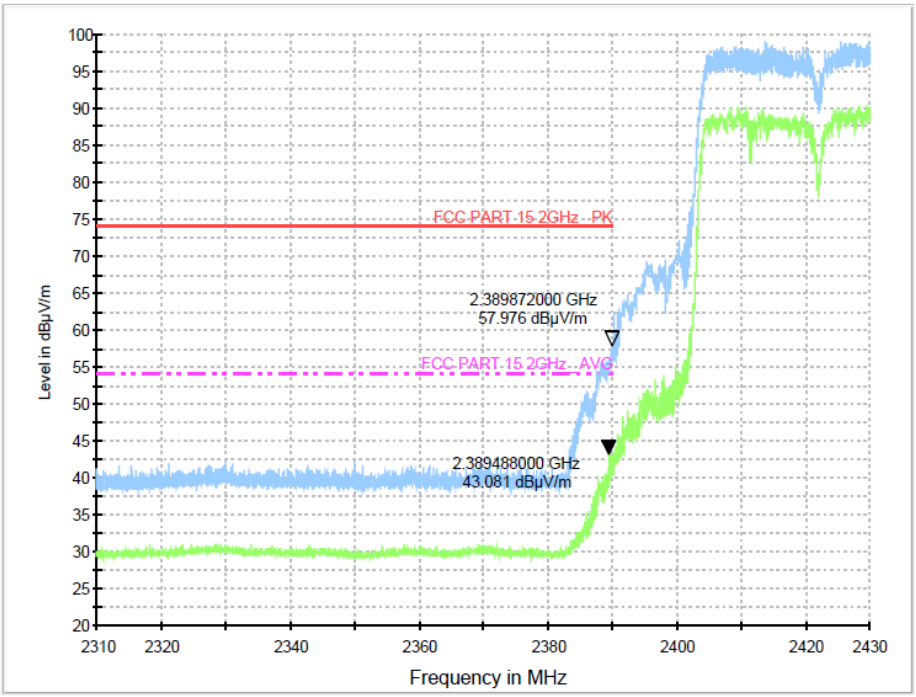
Test Mode: IEEE 802.11n20-Low



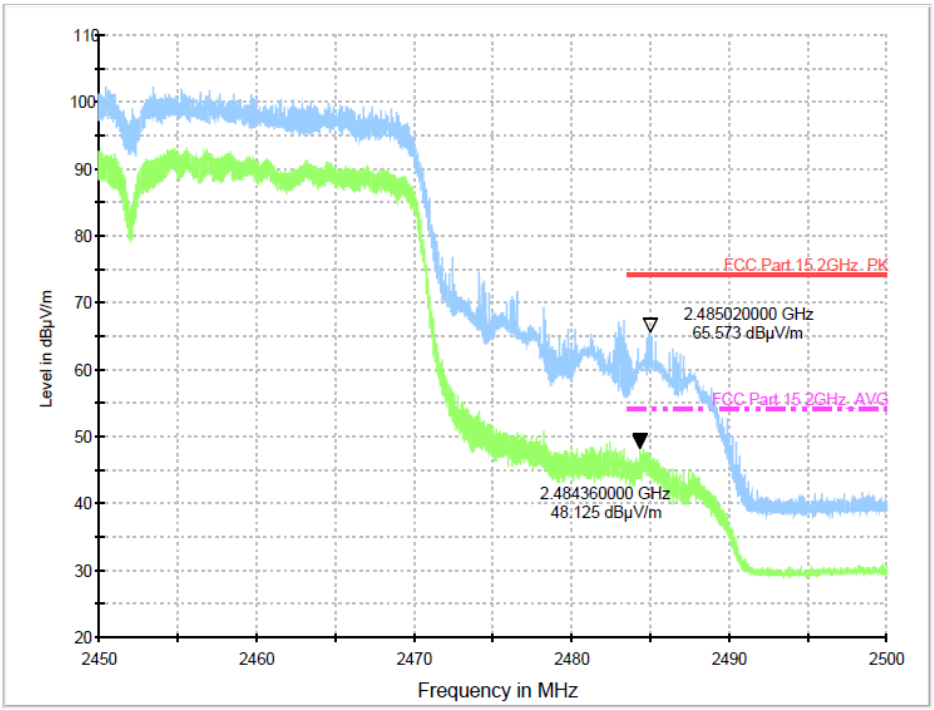
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

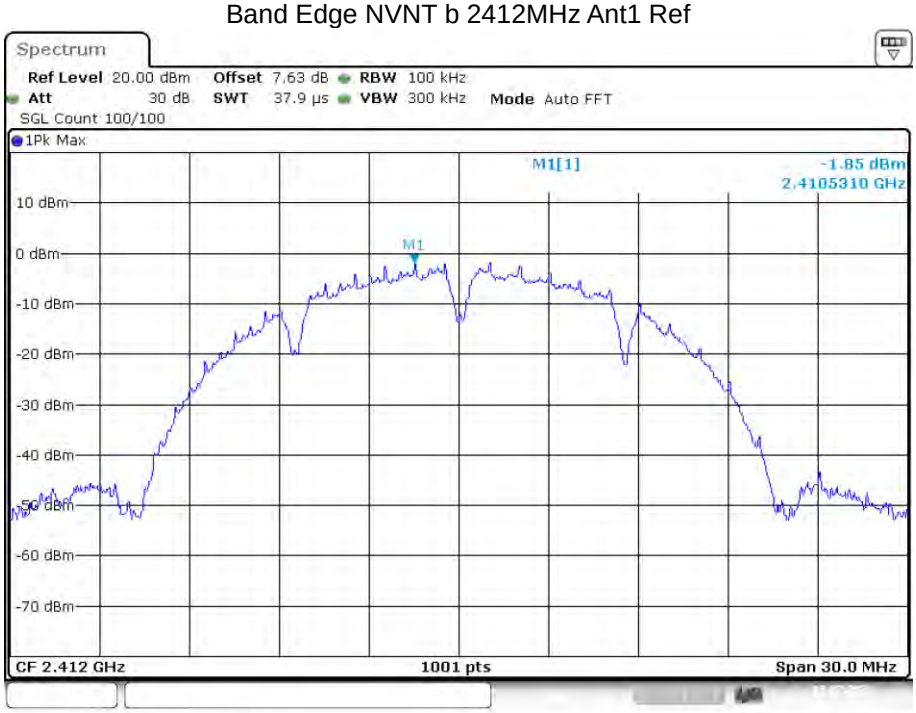


Test Mode: IEEE 802.11n40-High



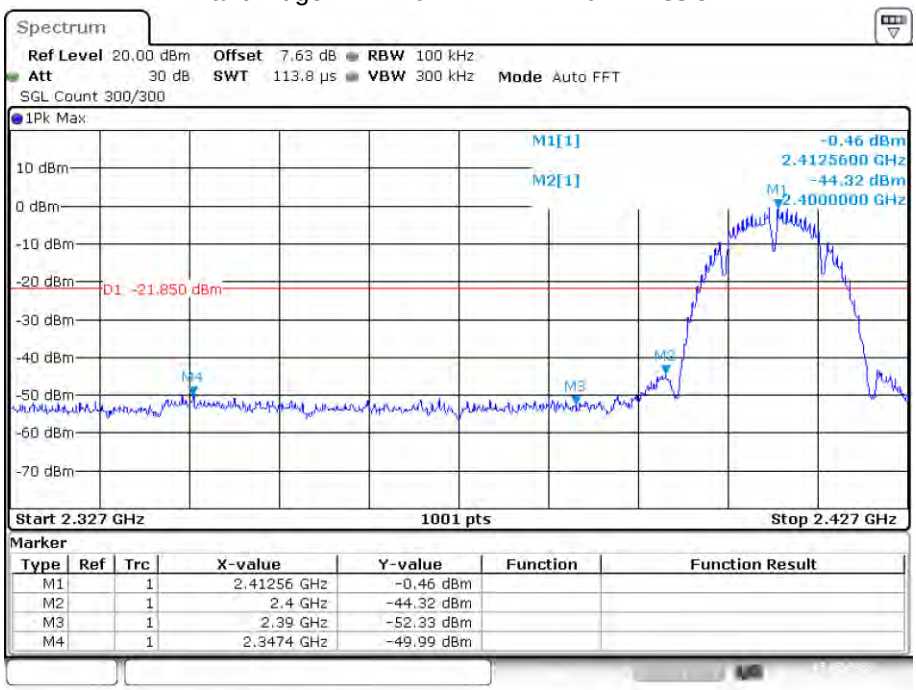
Note: 1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level + Correct Factor; Correct Factor=Antenna Factor + Cable Loss.

Band Edge NVNT b 2412MHz Ant1 Ref



Date: 7.JUL.2023 10:19:56

Band Edge NVNT b 2412MHz Ant1 Emission

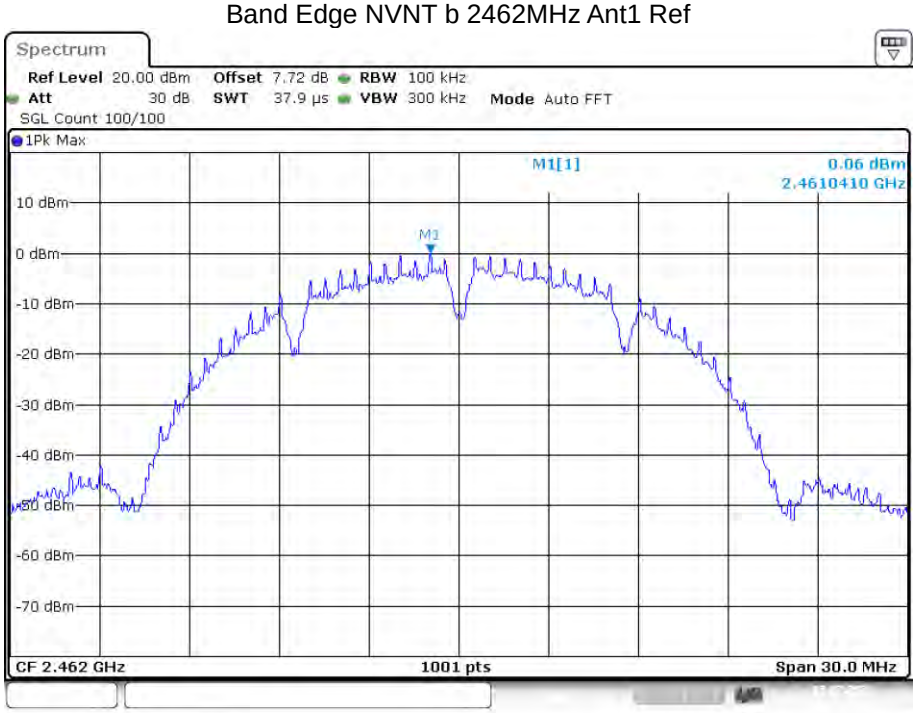


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41256 GHz	-0.46 dBm		
M2		1	2.4 GHz	-44.32 dBm		
M3		1	2.39 GHz	-52.33 dBm		
M4		1	2.3474 GHz	-49.99 dBm		

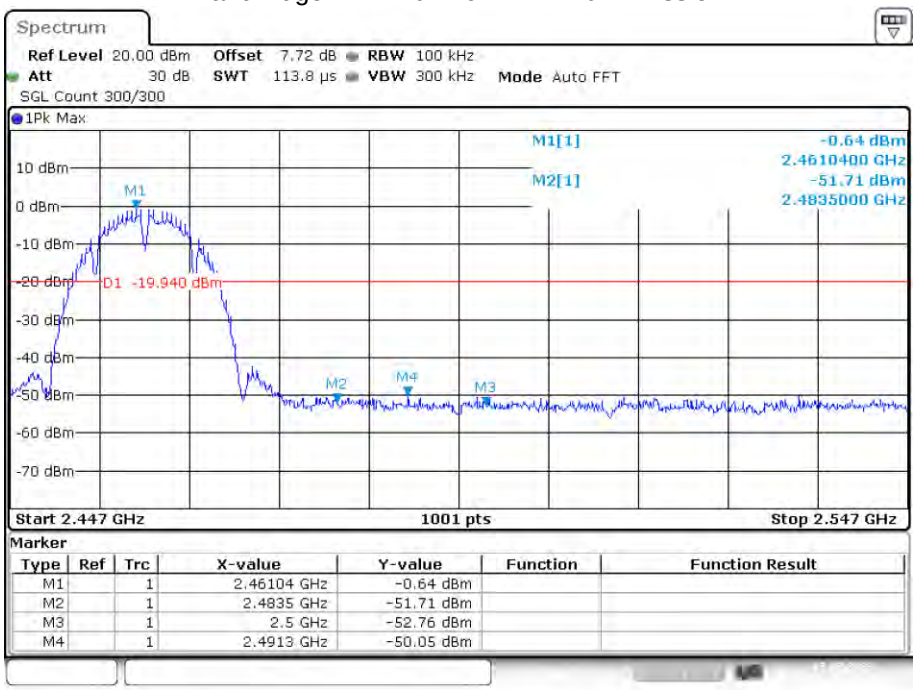
Date: 7.JUL.2023 10:20:08

Band Edge NVNT b 2462MHz Ant1 Ref



Date: 7.JUL.2023 10:54:00

Band Edge NVNT b 2462MHz Ant1 Emission

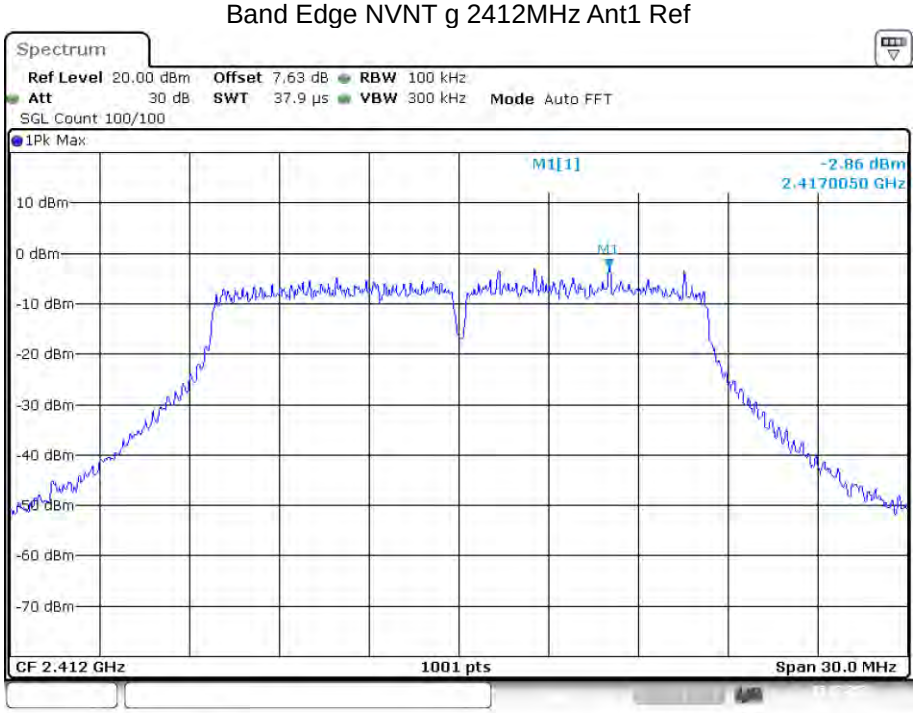


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46104 GHz	-0.64 dBm		
M2		1	2.4835 GHz	-51.71 dBm		
M3		1	2.5 GHz	-52.76 dBm		
M4		1	2.4913 GHz	-50.05 dBm		

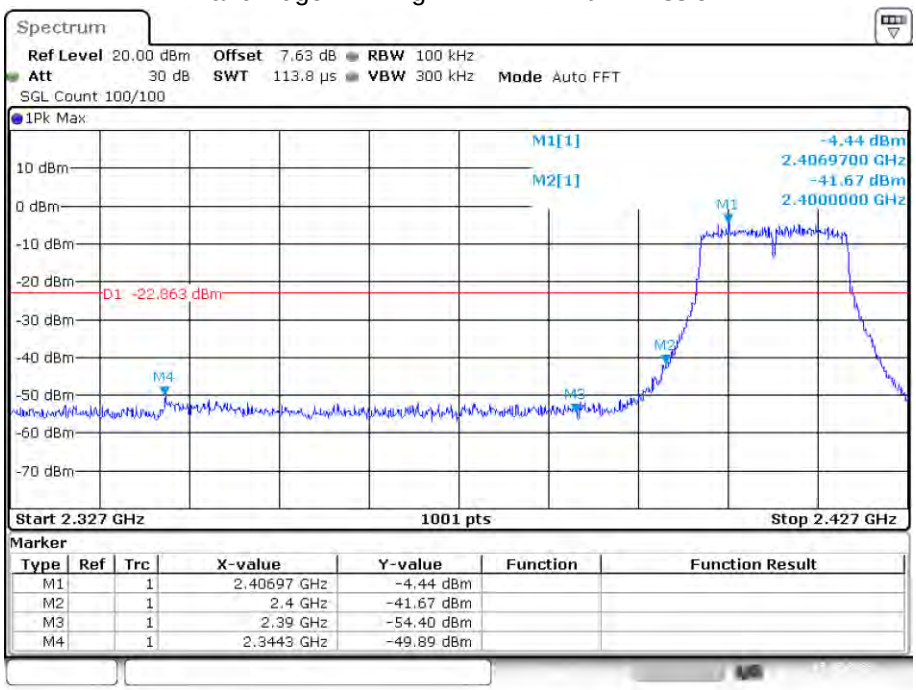
Date: 7.JUL.2023 10:54:12

Band Edge NVNT g 2412MHz Ant1 Ref



Date: 7.JUL.2023 10:58:22

Band Edge NVNT g 2412MHz Ant1 Emission

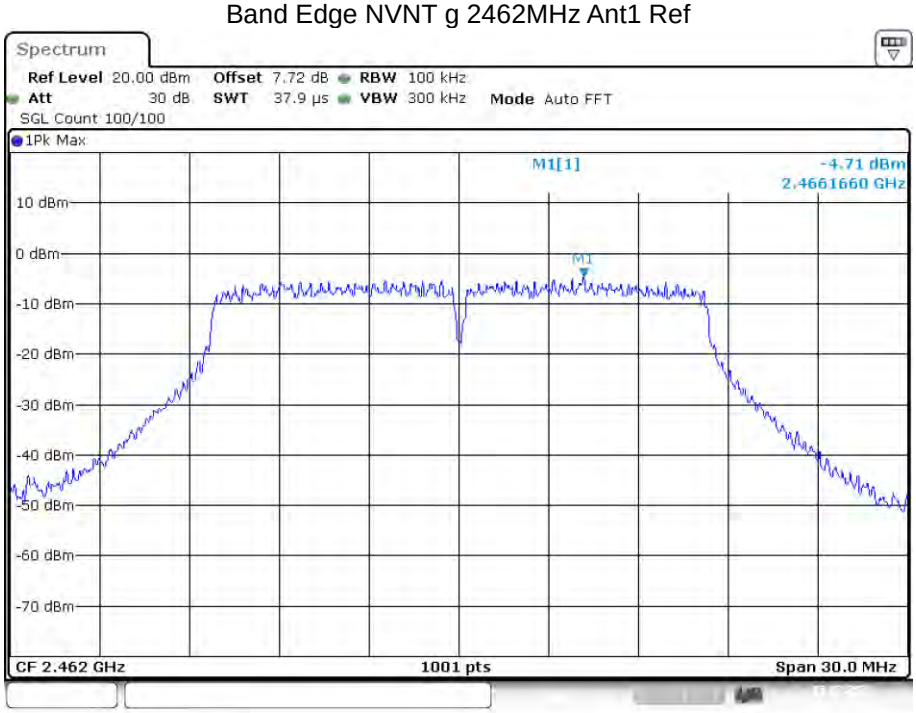


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40697 GHz	-4.44 dBm		
M2		1	2.4 GHz	-41.67 dBm		
M3		1	2.39 GHz	-54.40 dBm		
M4		1	2.3443 GHz	-49.89 dBm		

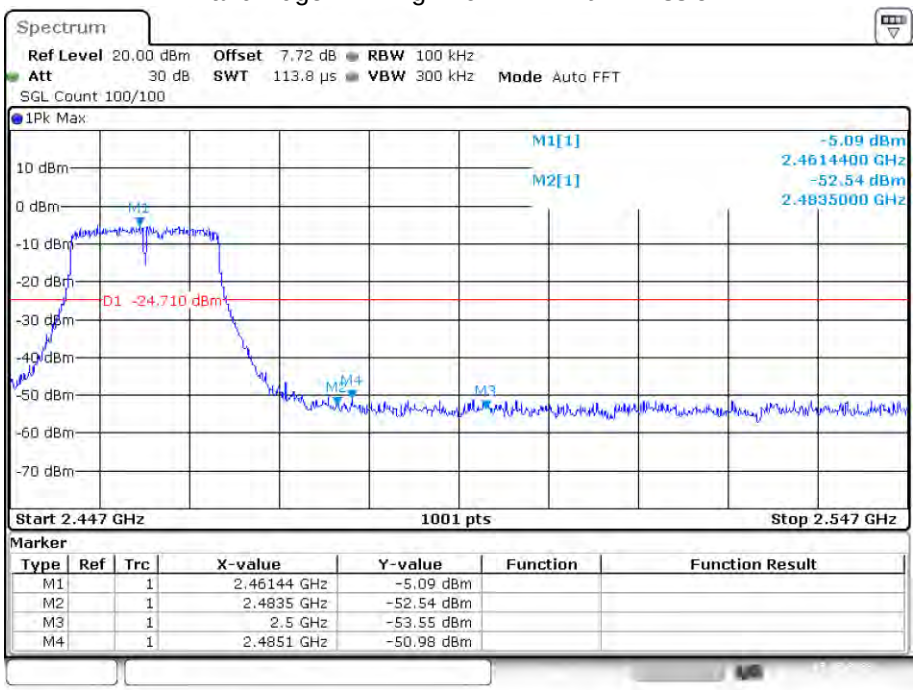
Date: 7.JUL.2023 10:58:28

Band Edge NVNT g 2462MHz Ant1 Ref



Date: 7.JUL.2023 11:06:06

Band Edge NVNT g 2462MHz Ant1 Emission

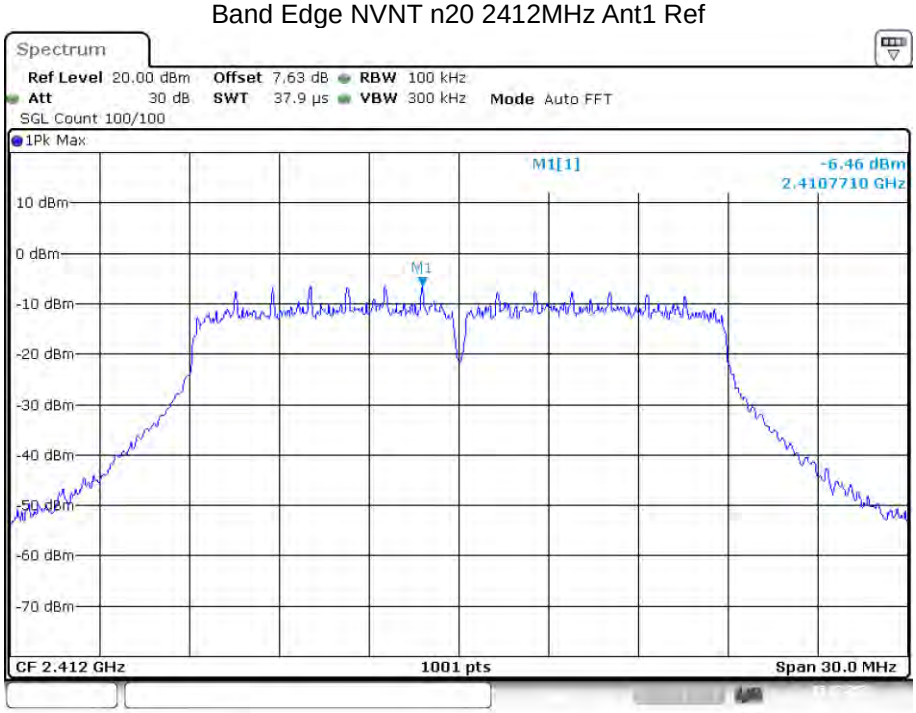


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46144 GHz	-5.09 dBm		
M2		1	2.4835 GHz	-52.54 dBm		
M3		1	2.5 GHz	-53.55 dBm		
M4		1	2.4851 GHz	-50.98 dBm		

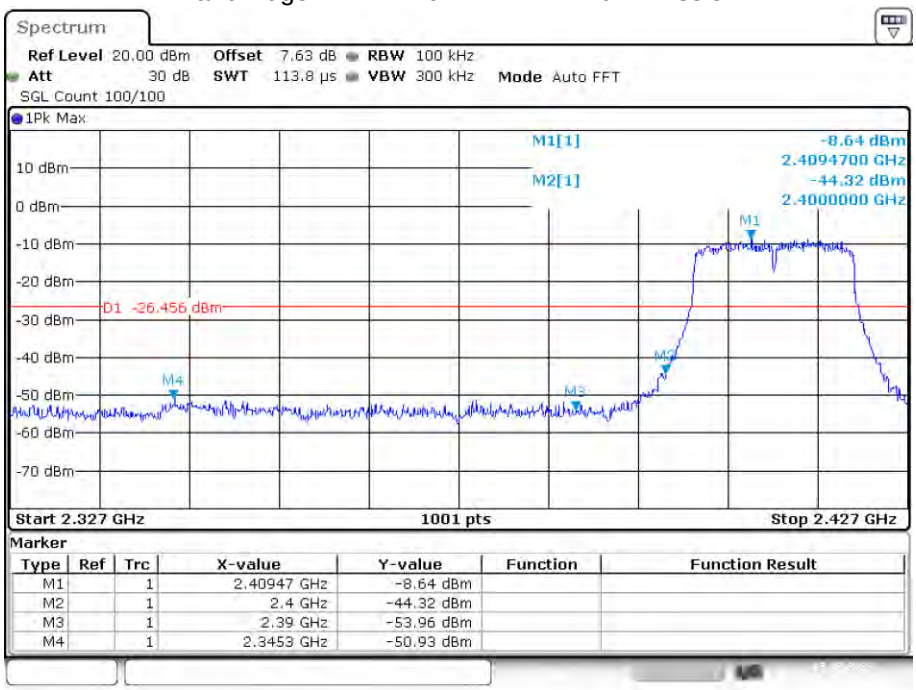
Date: 7.JUL.2023 11:06:12

Band Edge NVNT n20 2412MHz Ant1 Ref



Date: 7.JUL.2023 11:15:06

Band Edge NVNT n20 2412MHz Ant1 Emission

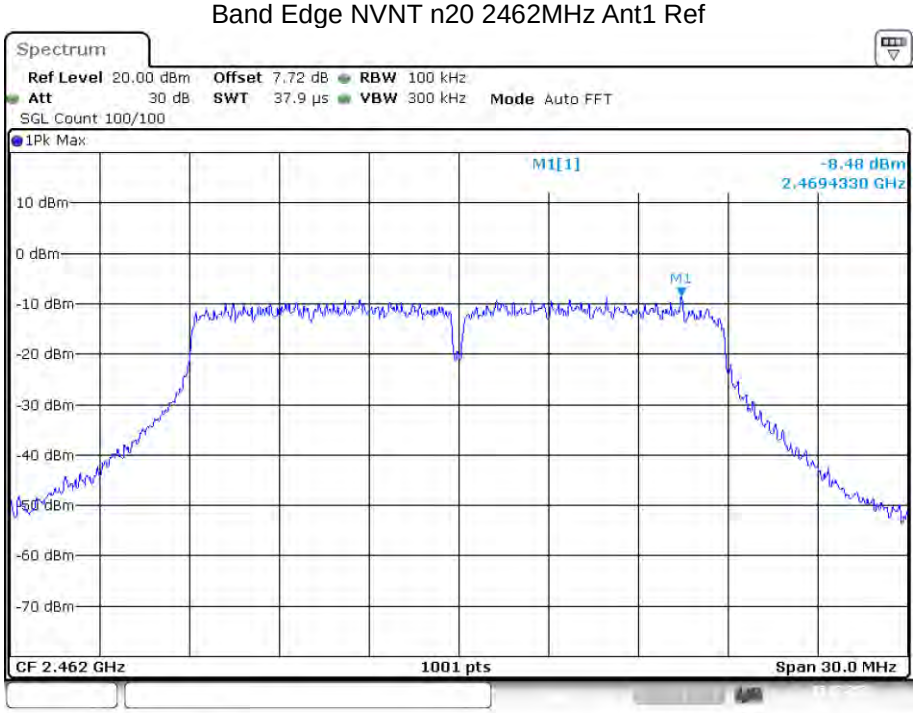


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40947 GHz	-8.64 dBm		
M2		1	2.4 GHz	-44.32 dBm		
M3		1	2.39 GHz	-53.96 dBm		
M4		1	2.3453 GHz	-50.93 dBm		

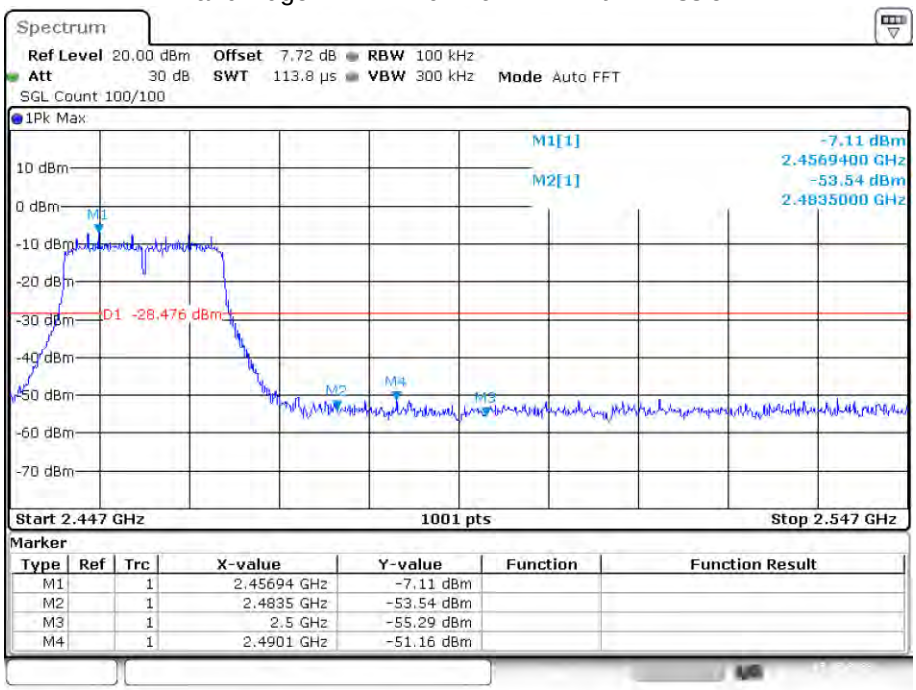
Date: 7.JUL.2023 11:15:12

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 7.JUL.2023 11:30:25

Band Edge NVNT n20 2462MHz Ant1 Emission

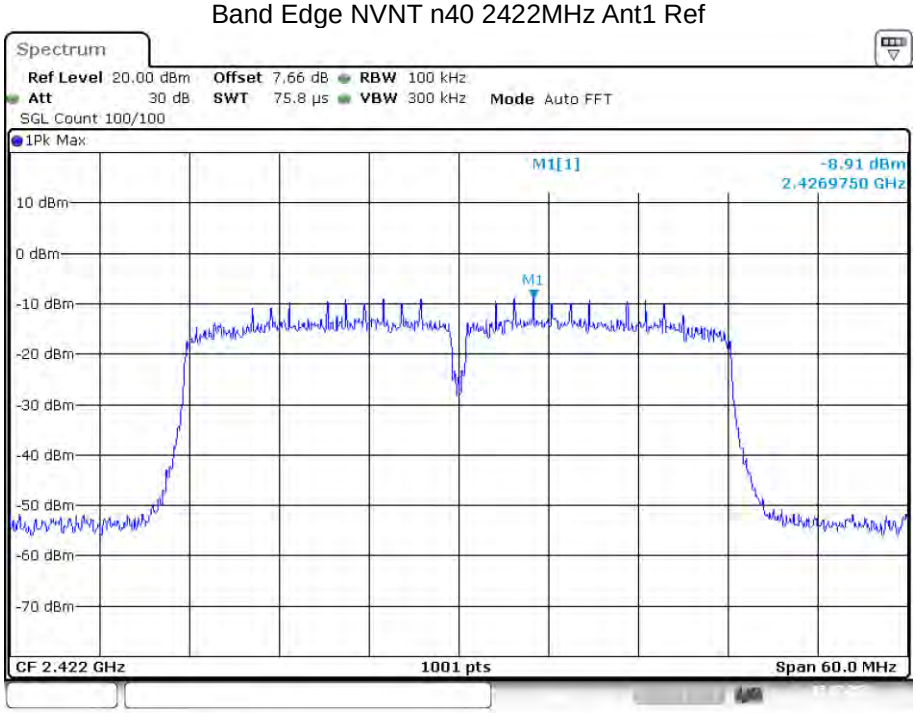


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45694 GHz	-7.11 dBm		
M2		1	2.4835 GHz	-53.54 dBm		
M3		1	2.5 GHz	-55.29 dBm		
M4		1	2.4901 GHz	-51.16 dBm		

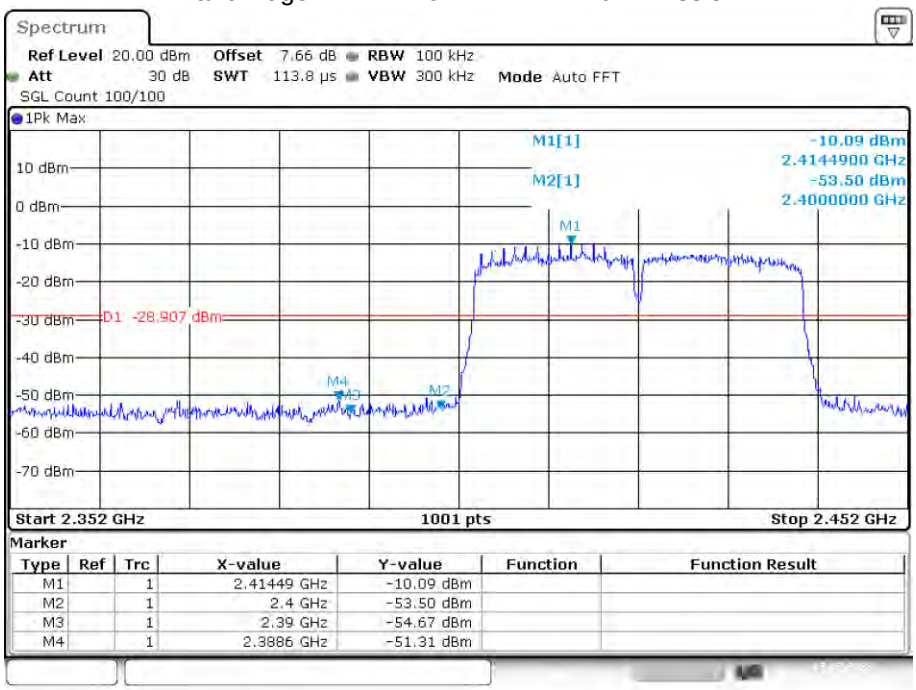
Date: 7.JUL.2023 11:30:30

Band Edge NVNT n40 2422MHz Ant1 Ref



Date: 7.JUL.2023 11:35:09

Band Edge NVNT n40 2422MHz Ant1 Emission

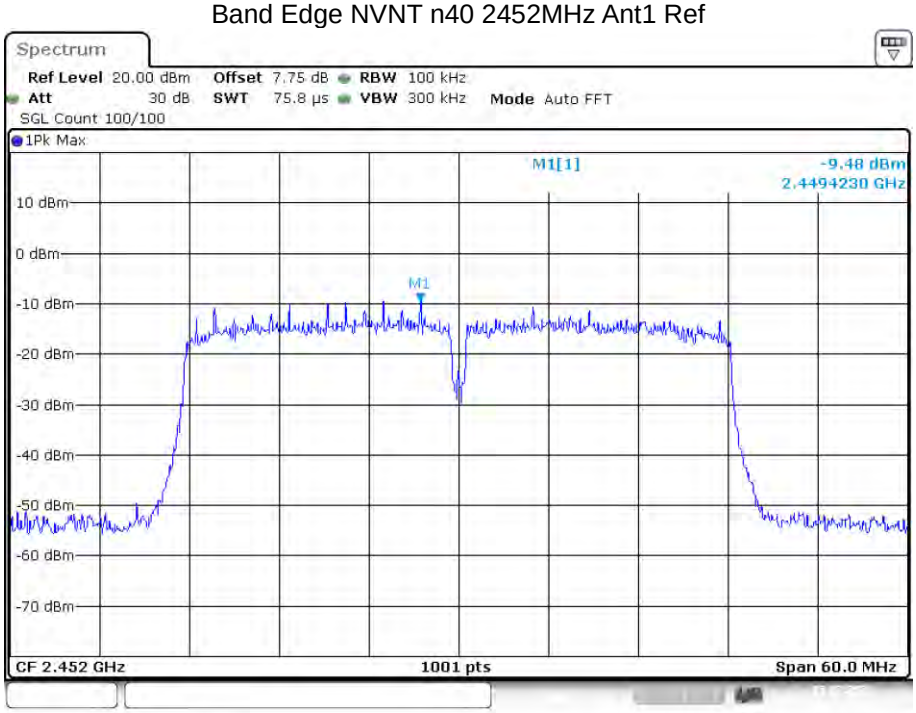


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41449 GHz	-10.09 dBm		
M2		1	2.4 GHz	-53.50 dBm		
M3		1	2.39 GHz	-54.67 dBm		
M4		1	2.3886 GHz	-51.31 dBm		

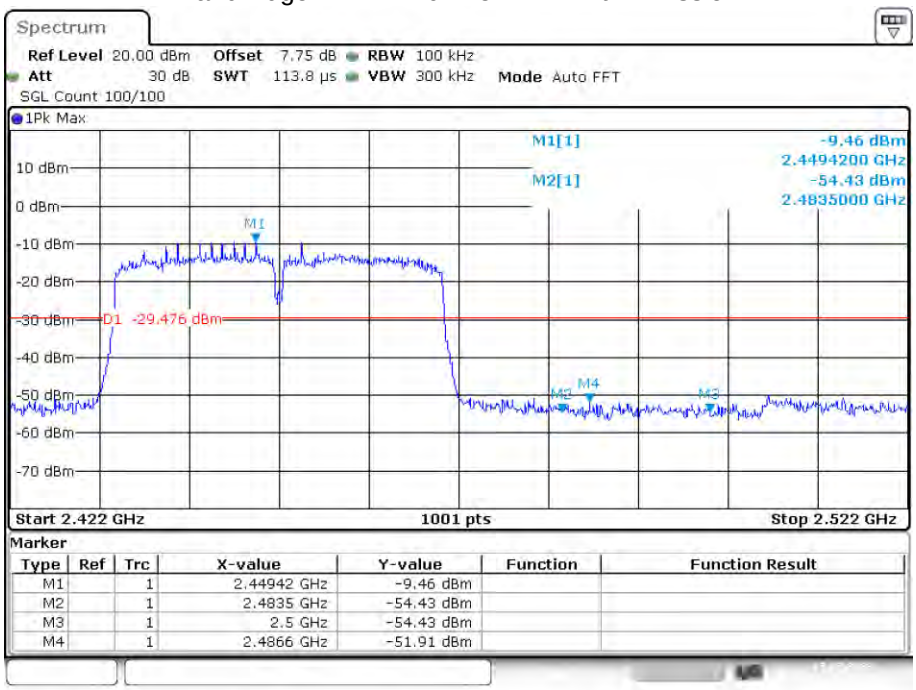
Date: 7.JUL.2023 11:35:15

Band Edge NVNT n40 2452MHz Ant1 Ref



Date: 7.JUL.2023 11:43:49

Band Edge NVNT n40 2452MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44942 GHz	-9.46 dBm		
M2		1	2.4835 GHz	-54.43 dBm		
M3		1	2.5 GHz	-54.43 dBm		
M4		1	2.4866 GHz	-51.91 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

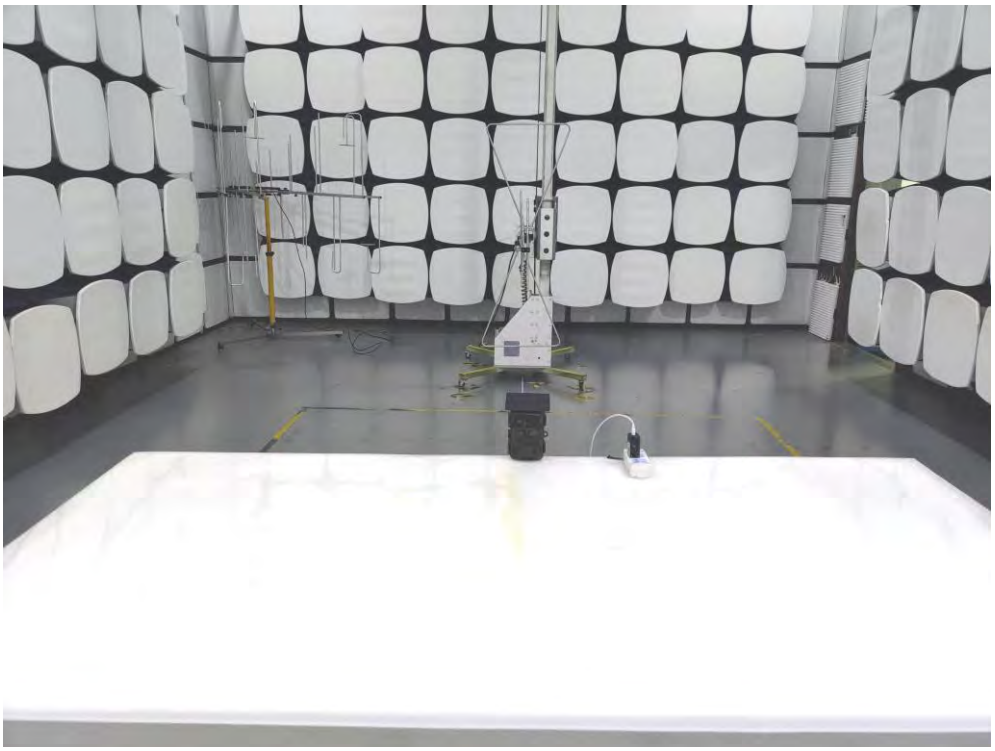
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

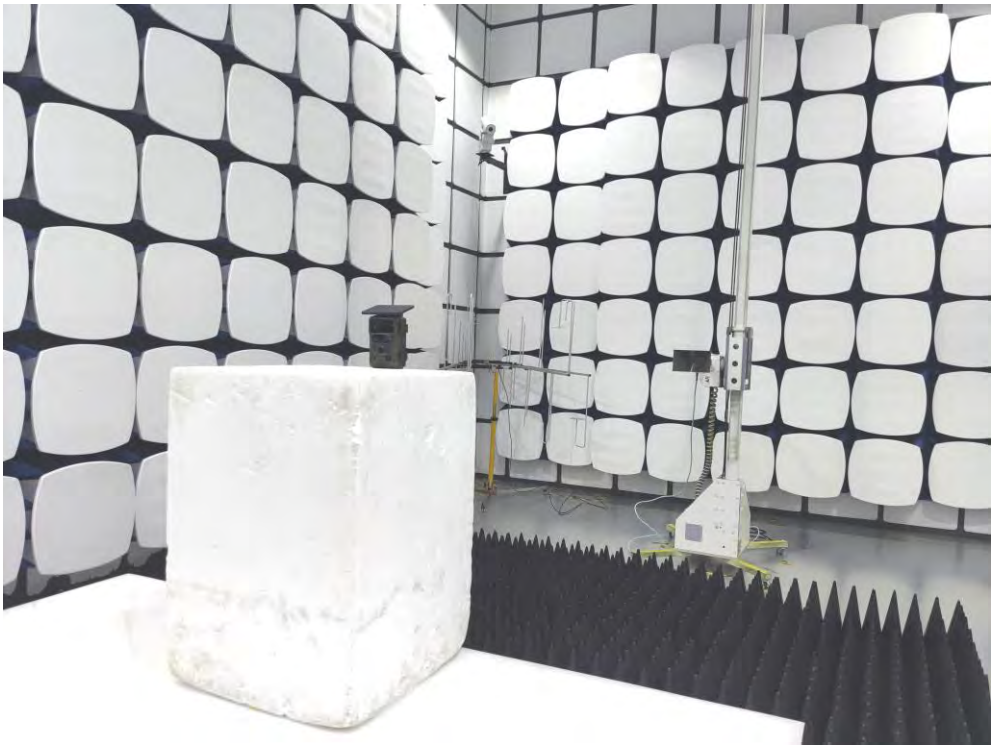
9.3. Results

The EUT antenna is internal Antenna. It complies with the standard requirement.

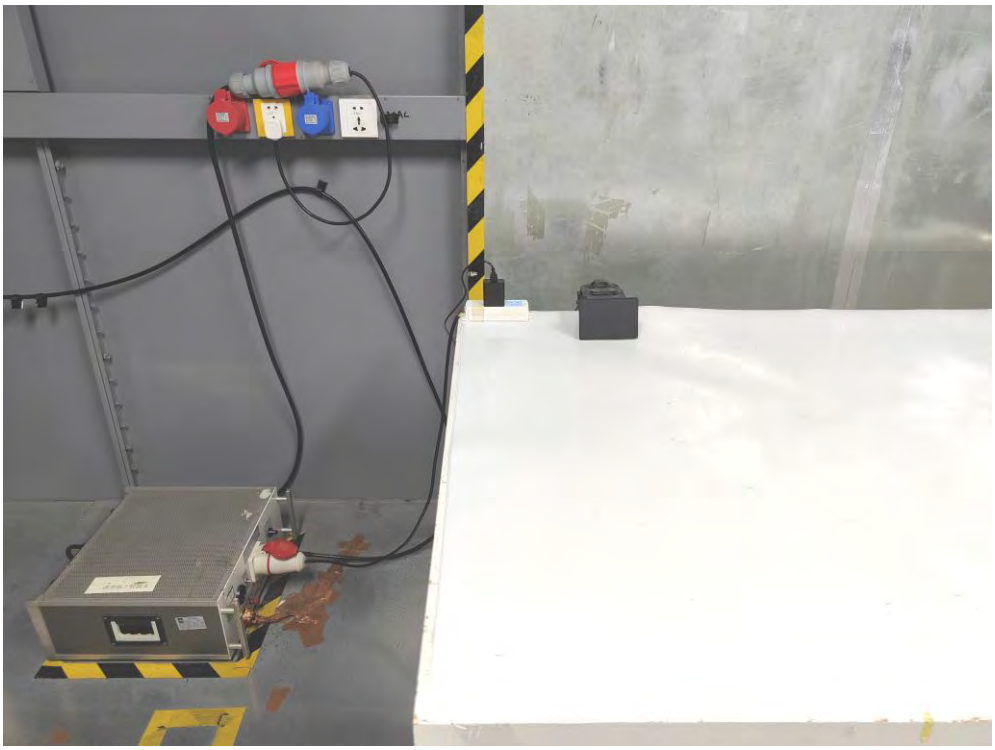
10. Photos Of Test Setup

10.1. Photos of Radiated emission





10.2.Photo of Conducted Emission test



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