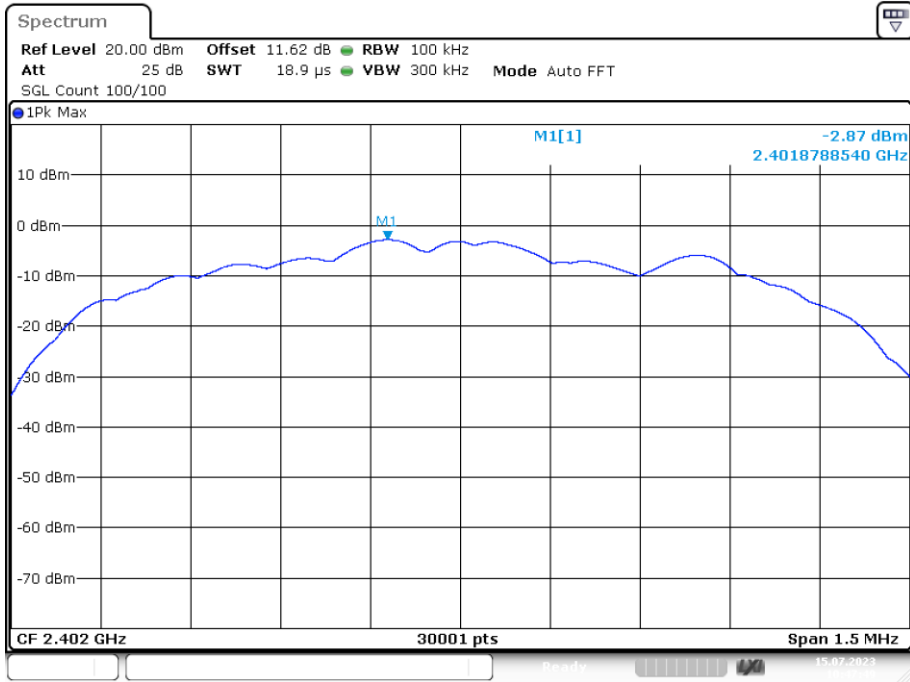
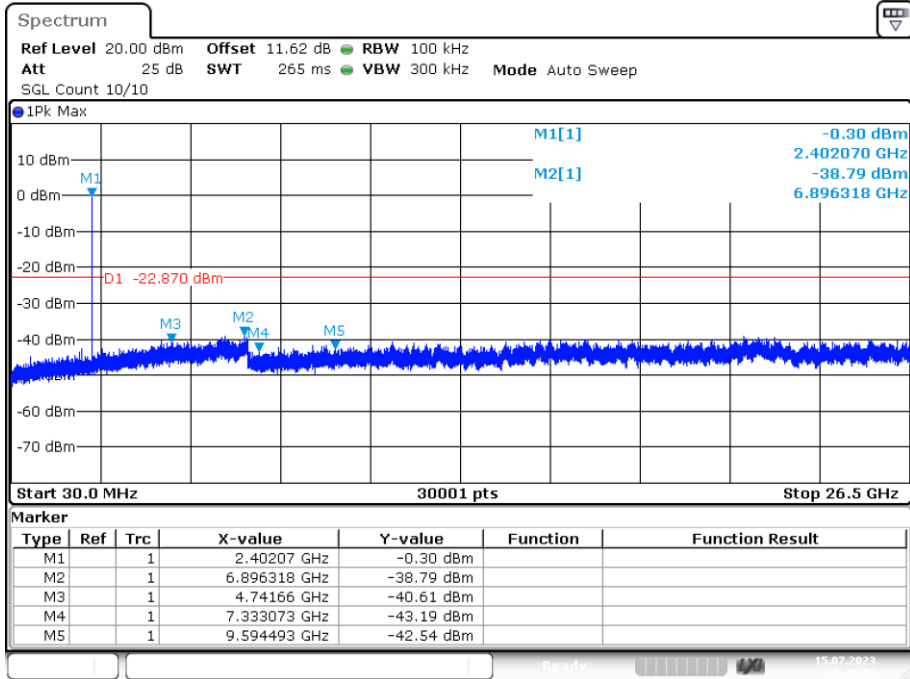


Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



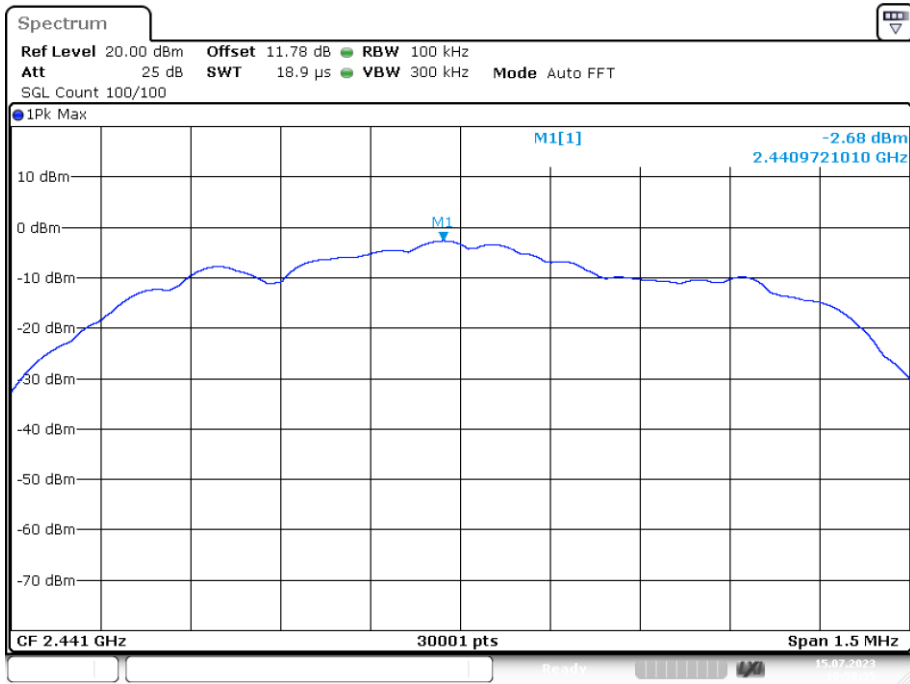
Date: 15.JUL.2023 10:47:49

Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



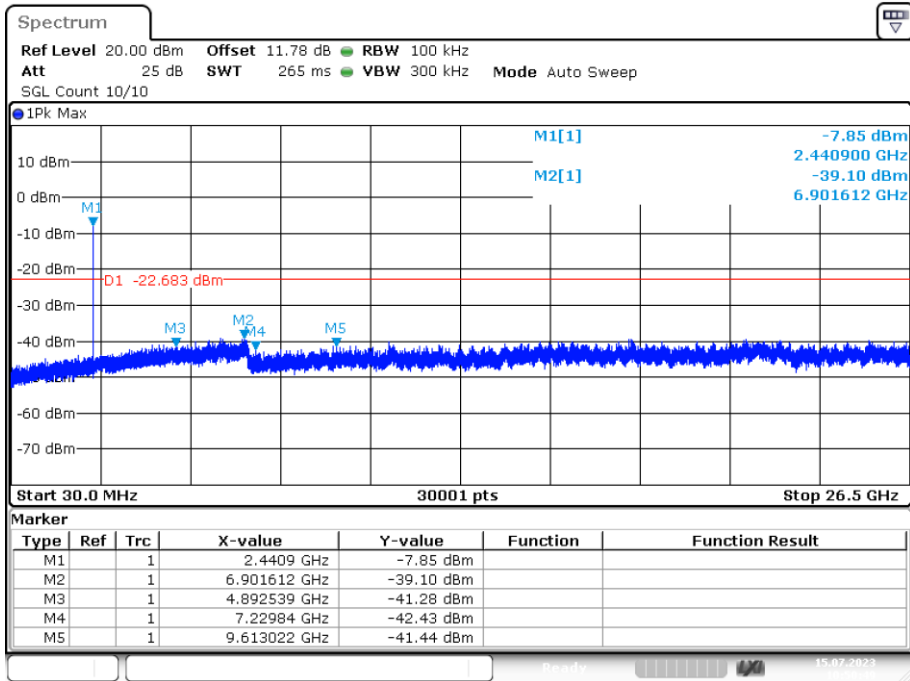
Date: 15.JUL.2023 10:48:02

Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



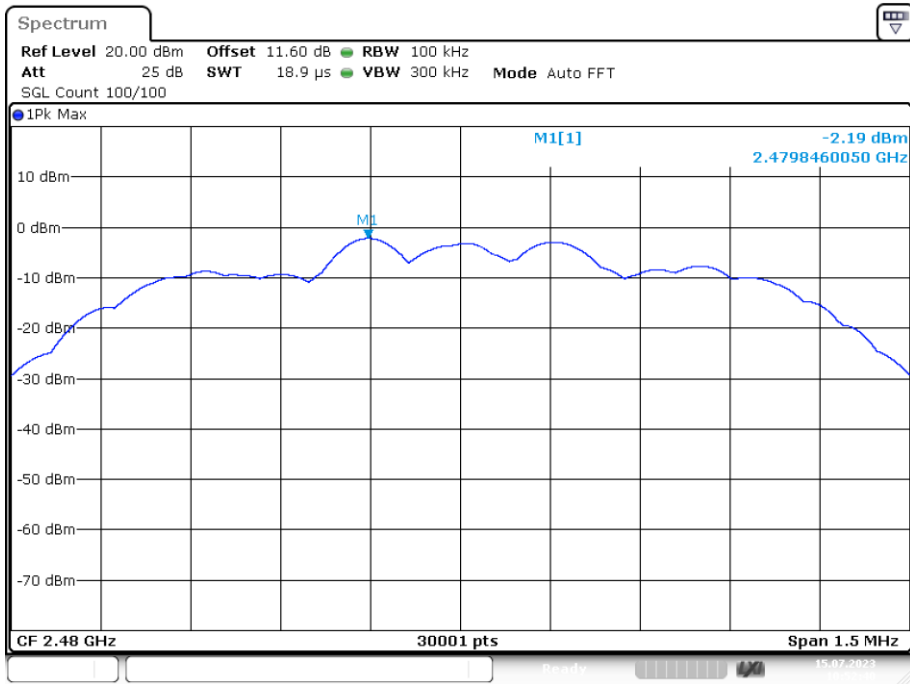
Date: 15.JUL.2023 10:50:35

Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



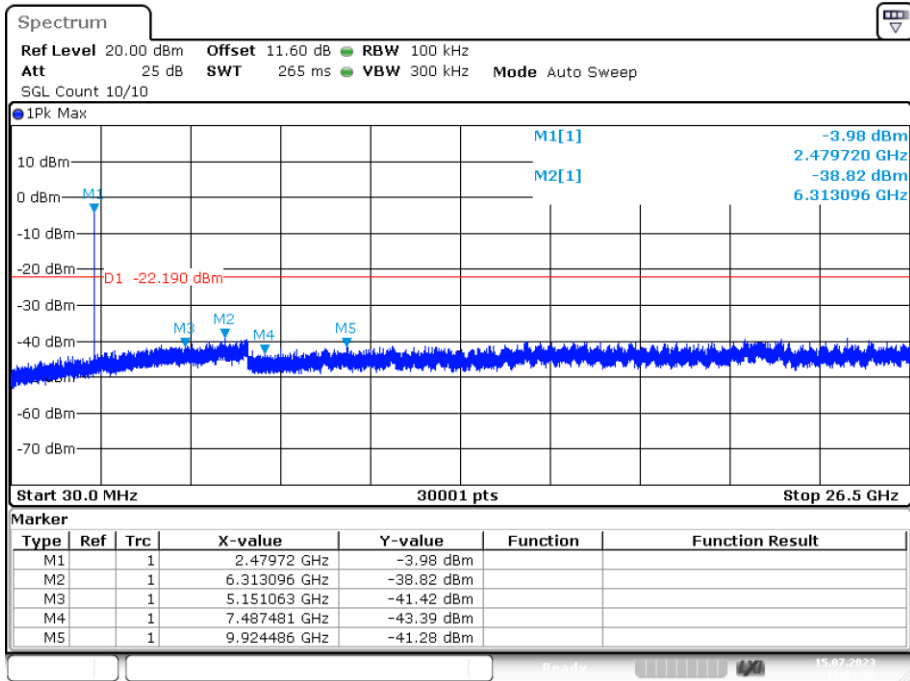
Date: 15.JUL.2023 10:50:49

Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Date: 15.JUL.2023 10:52:39

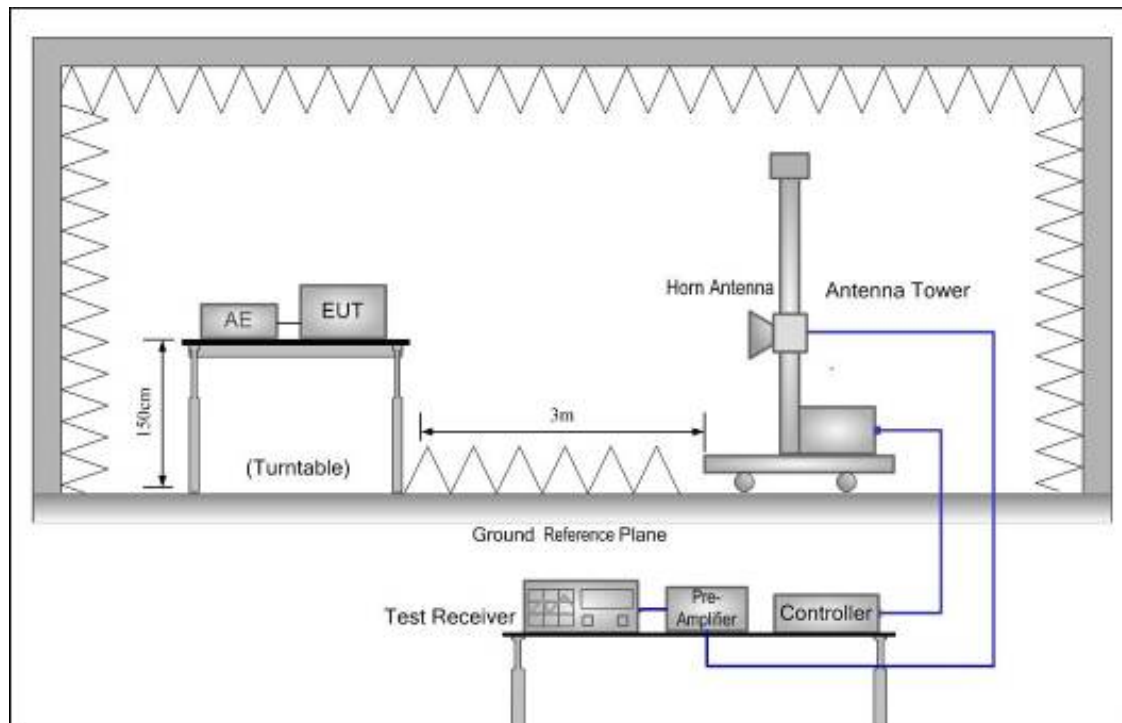
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission



Date: 15.JUL.2023 10:52:53

9. BAND EDGE COMPLIANCE

9.1. Block Diagram of Test Setup



9.2. Limit

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

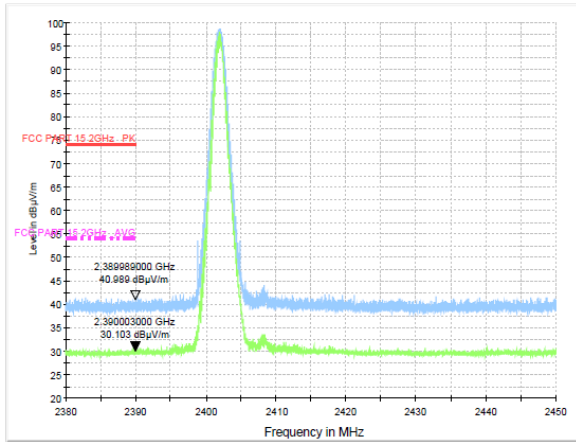
9.3. Test Procedure

All restriction band and non- restriction band have been tested , only worse case is reported.

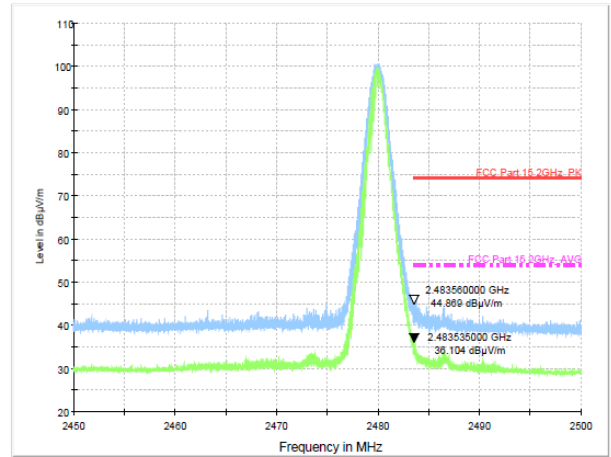
9.4. Test Result

PASS. (See below detailed test data)

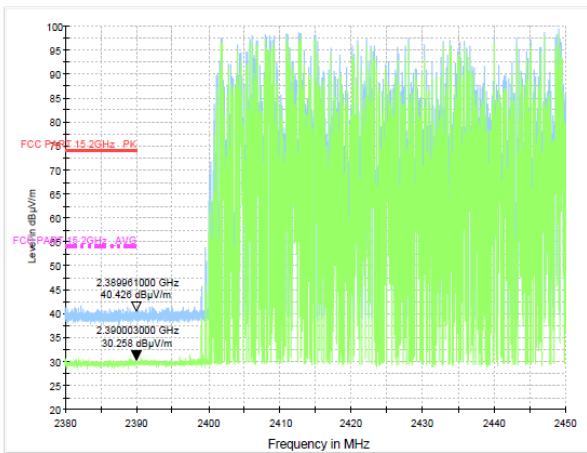
Test Mode: GFSK-Low Hopping-off



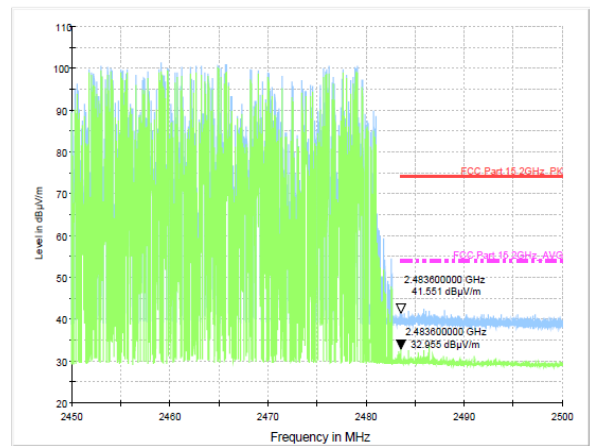
Test Mode: GFSK-High Hopping-off



Test Mode: GFSK-Low Hopping-on
Polarization: Vertical

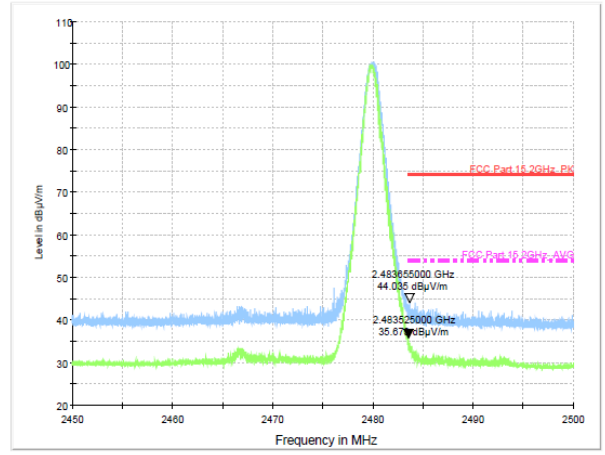
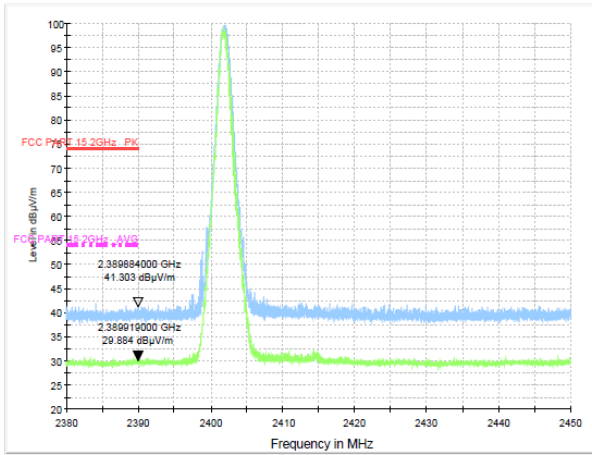


Test Mode: GFSK-High Hopping-on
Polarization: Horizontal



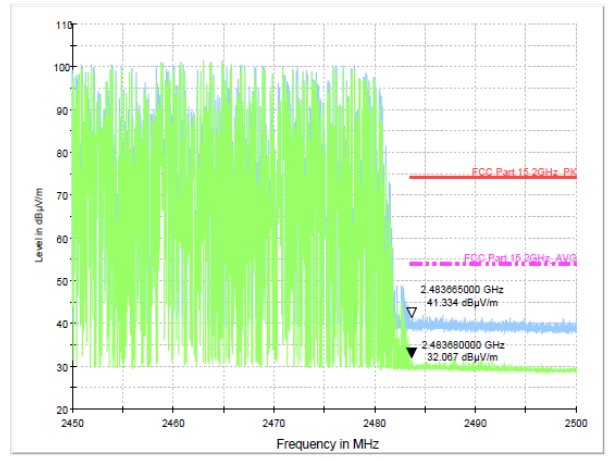
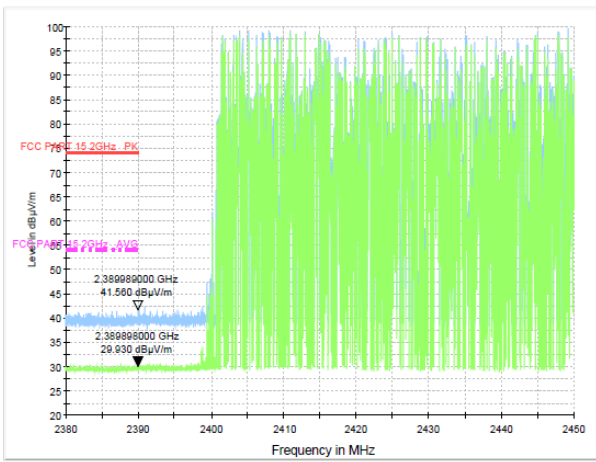
Test Mode: $\pi/4$ DQPSK-Low Hopping-off

Test Mode: $\pi/4$ DQPSK-High Hopping-off

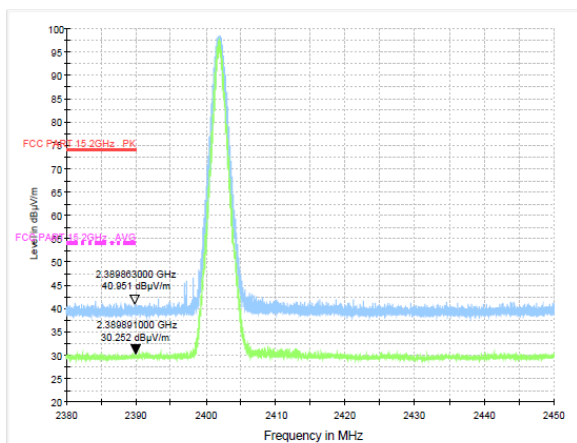


Test Mode: $\pi/4$ DQPSK-Low Hopping-on

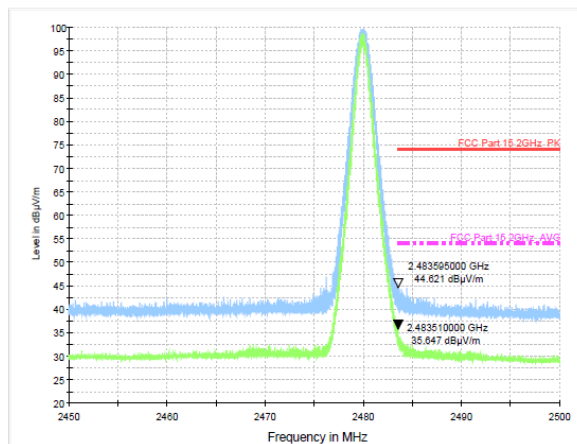
Test Mode: $\pi/4$ DQPSK-High Hopping-on



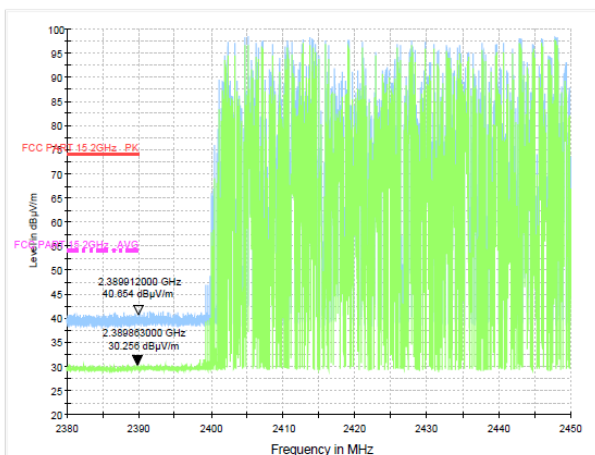
Test Mode: 8DPSK-Low Hopping-off



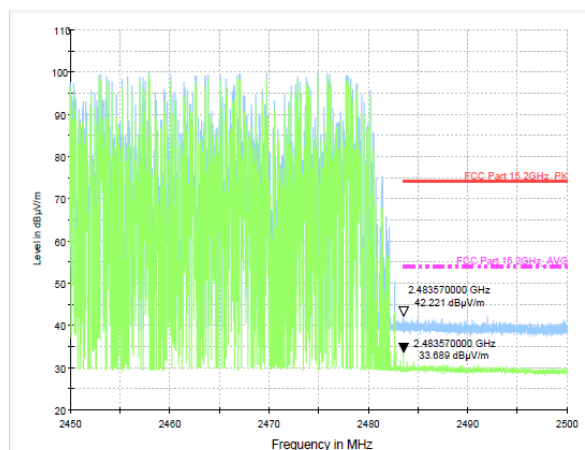
Test Mode: 8DPSK-High Hopping-off



Test Mode: 8DPSK-Low Hopping-on



Test Mode: 8DPSK-High Hopping-on

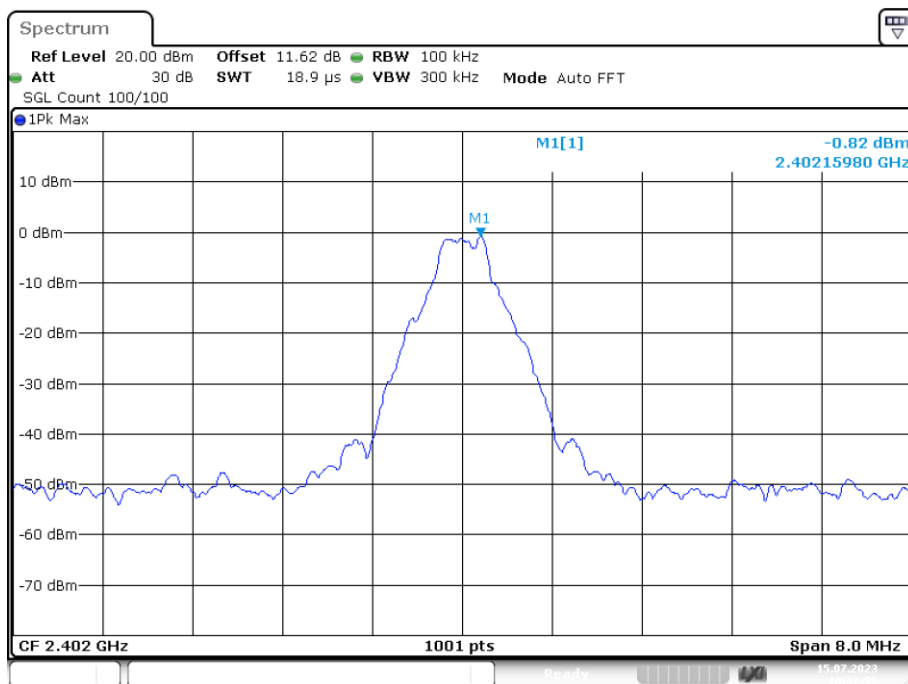


Conducted Method

Band Edge

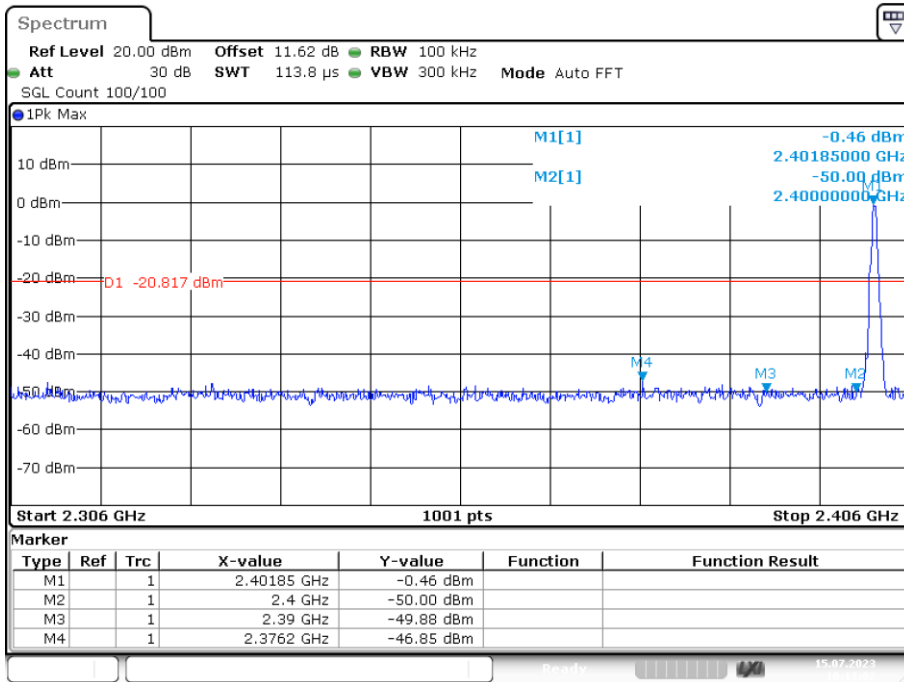
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-46.03	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-45.39	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-46.05	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-45.57	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-46.57	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-45.34	-20	Pass

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



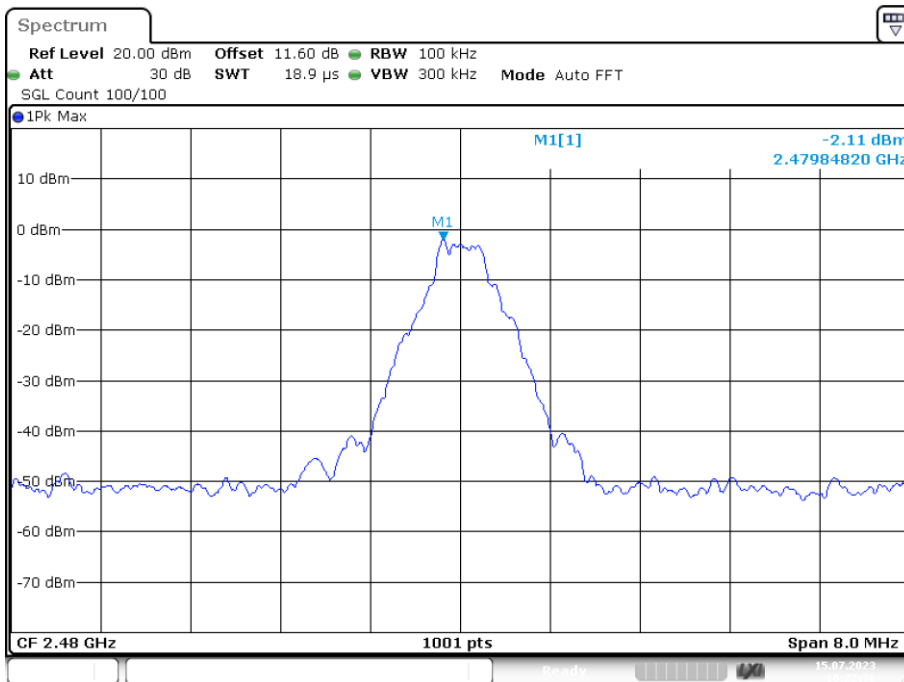
Date: 15.JUL.2023 10:12:57

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



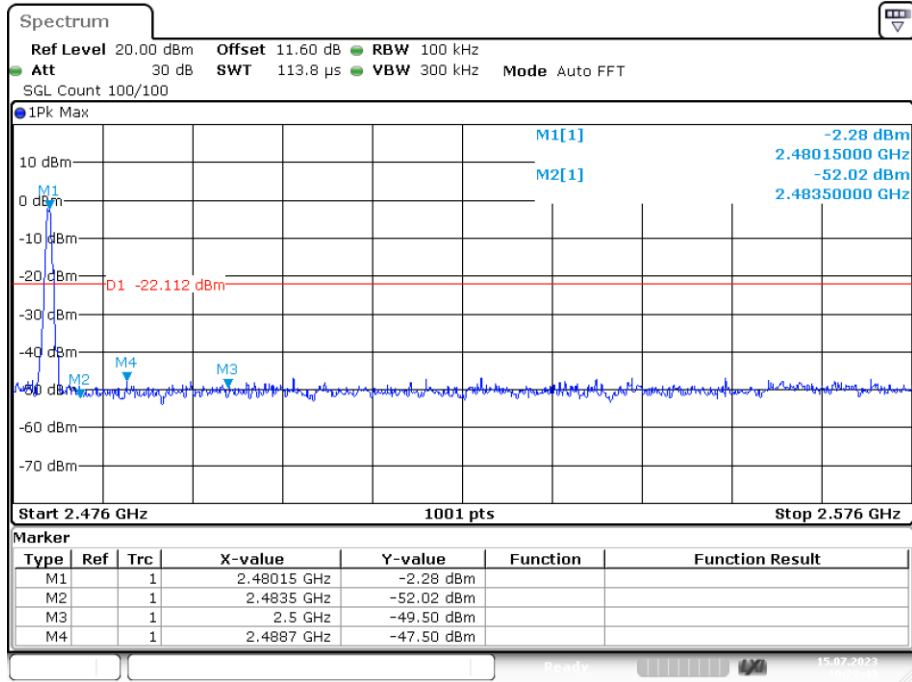
Date: 15.JUL.2023 10:13:03

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



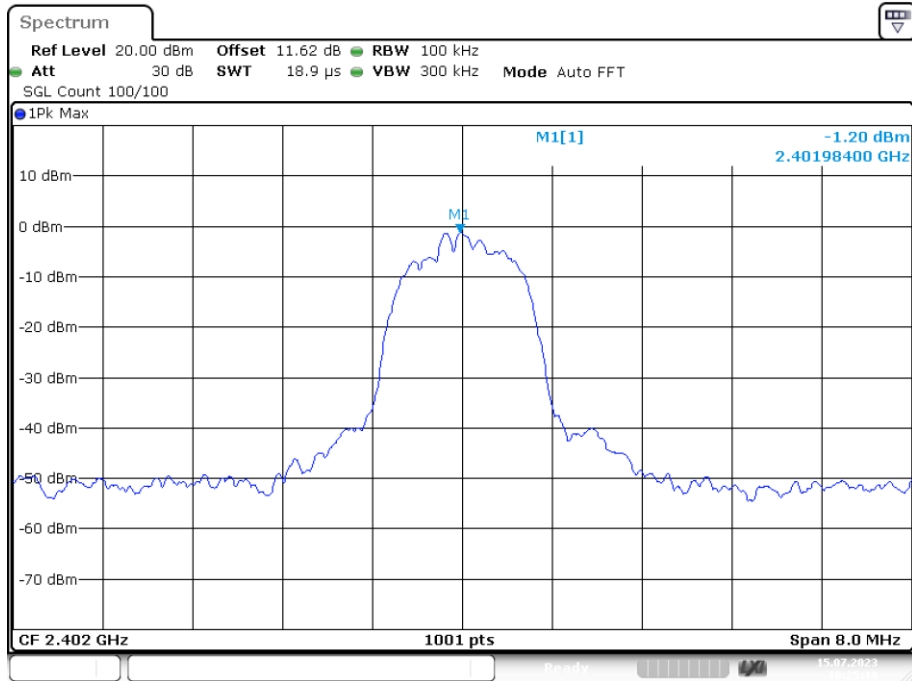
Date: 15.JUL.2023 10:22:36

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



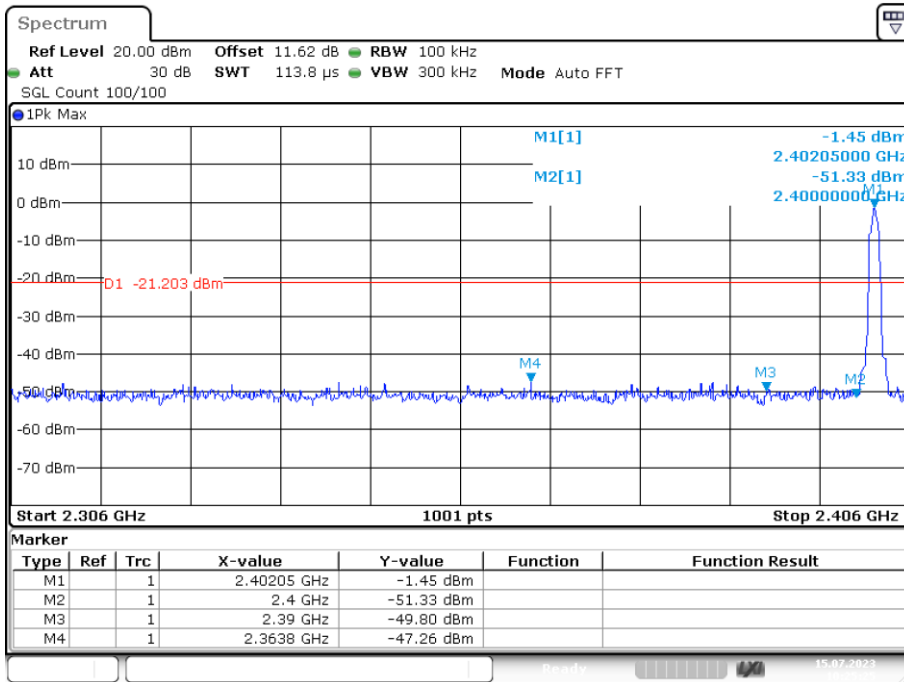
Date: 15.JUL.2023 10:22:42

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



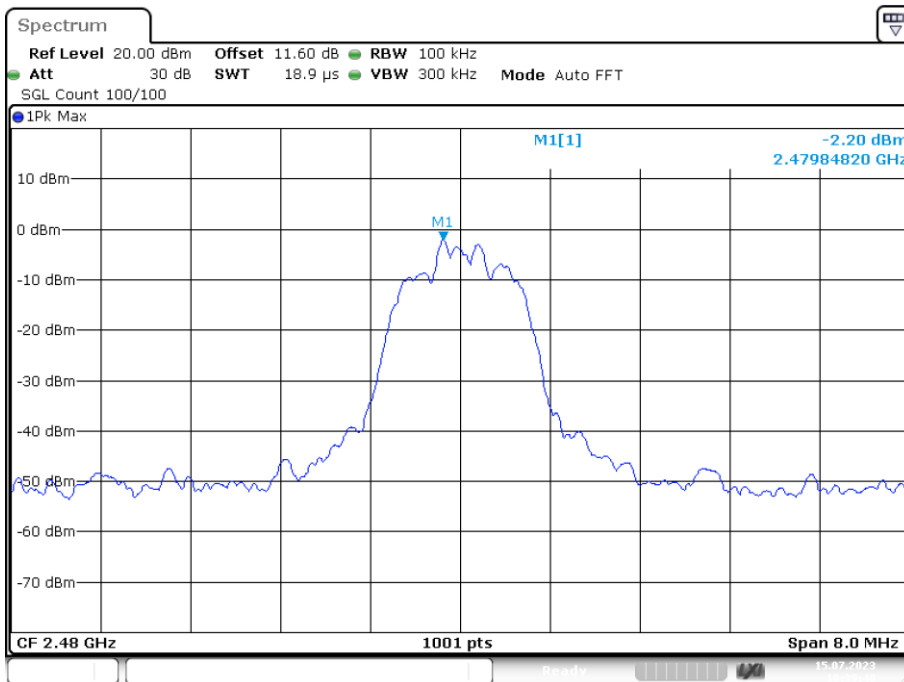
Date: 15.JUL.2023 10:25:19

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



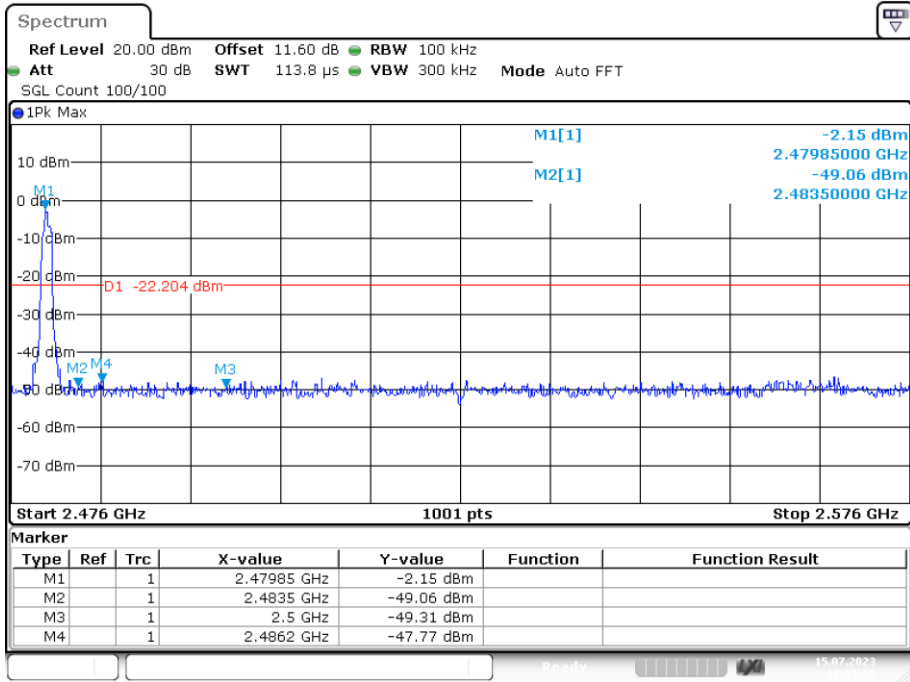
Date: 15.JUL.2023 10:25:25

Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



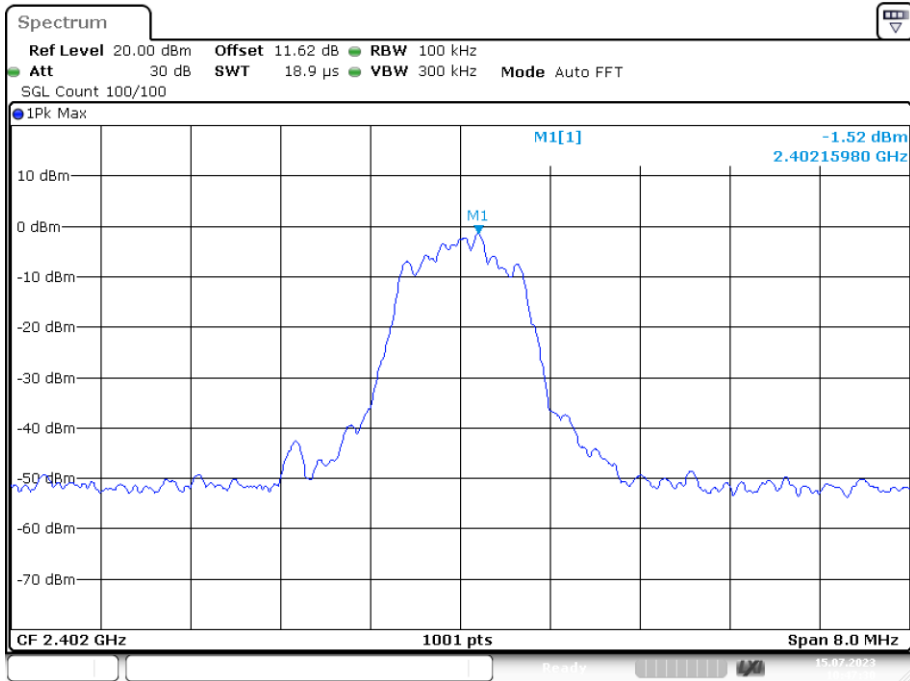
Date: 15.JUL.2023 10:39:49

Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



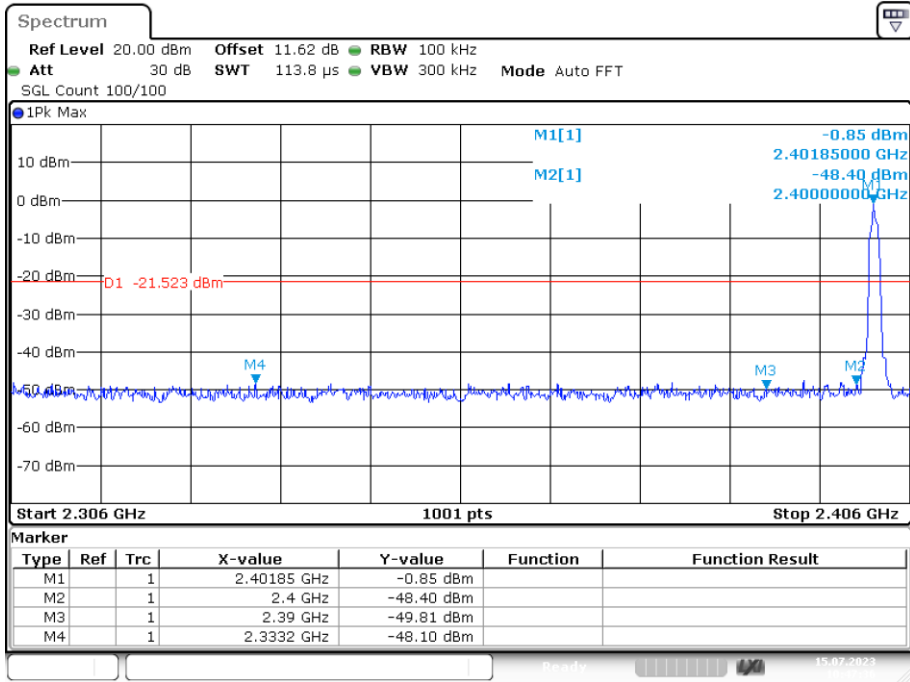
Date: 15.JUL.2023 10:39:54

Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



Date: 15.JUL.2023 10:47:30

Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



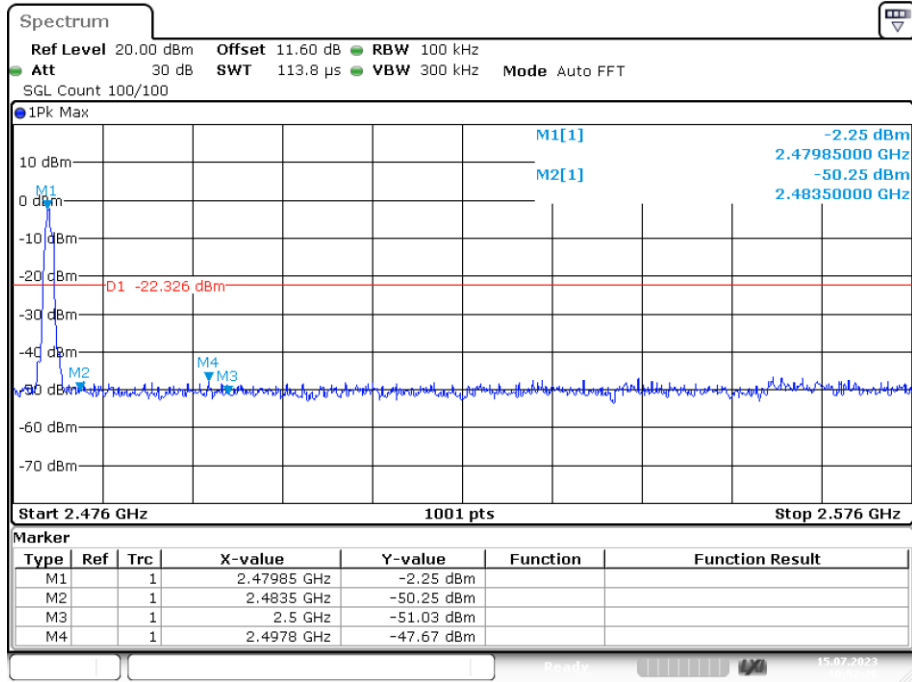
Date: 15.JUL.2023 10:47:36

Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



Date: 15.JUL.2023 10:52:19

Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

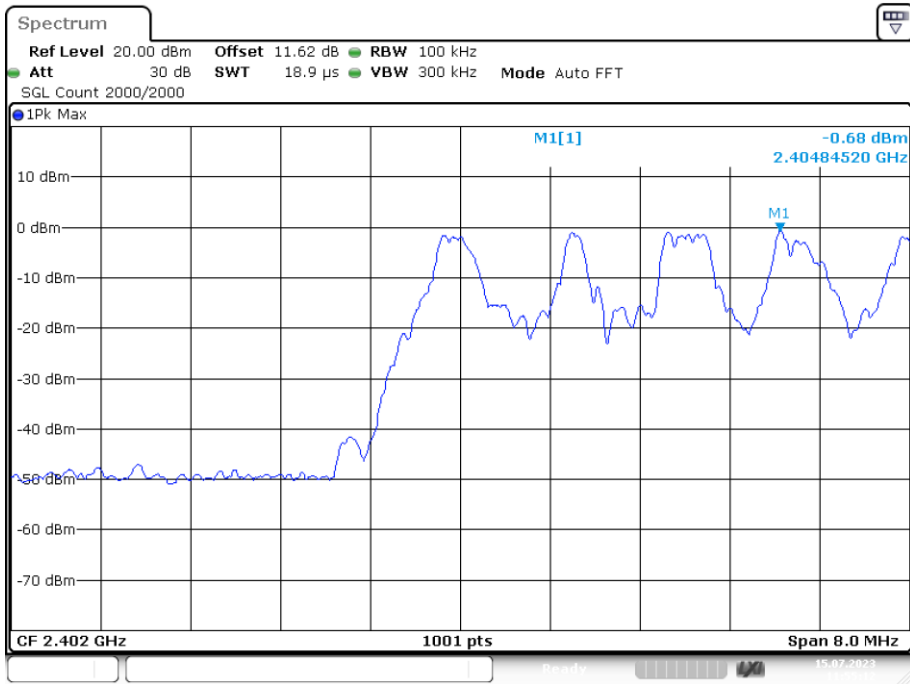


Date: 15.JUL.2023 10:52:25

Band Edge(Hopping)

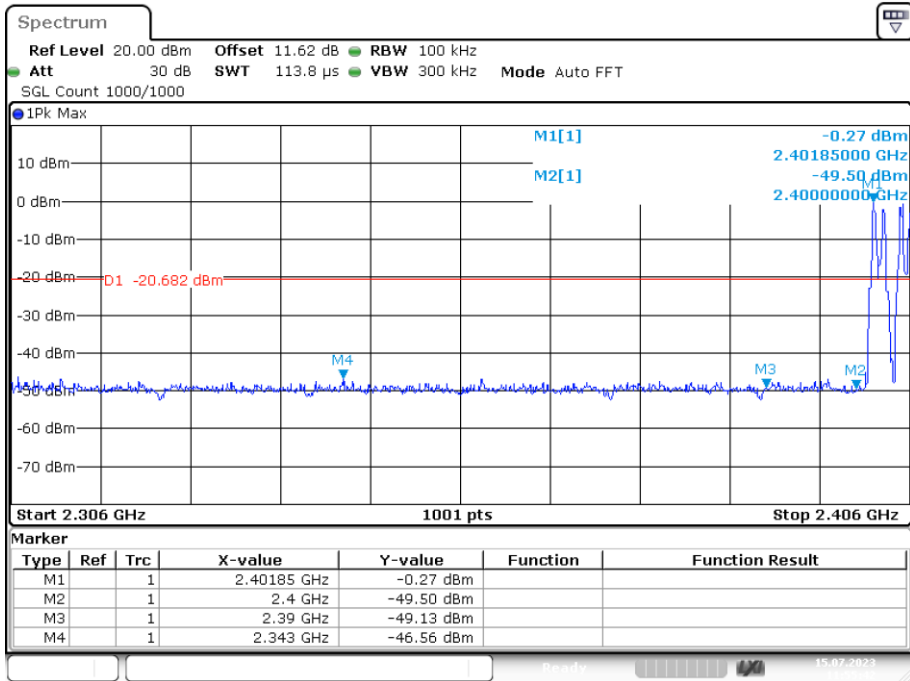
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-45.87	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-44.56	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-46.14	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-44.32	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-45.59	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-44.15	-20	Pass

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



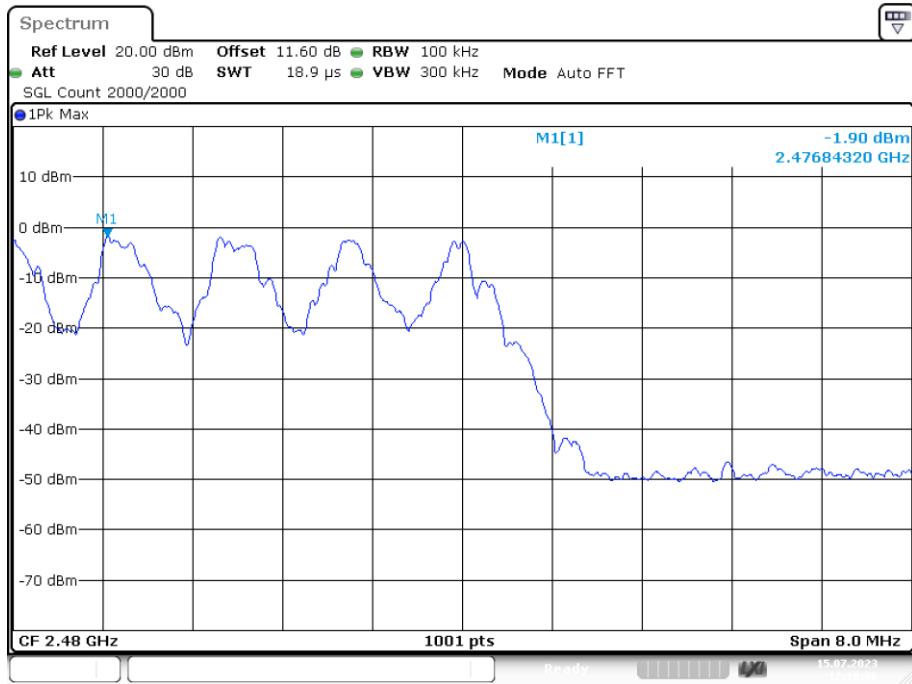
Date: 15.JUL.2023 11:55:12

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



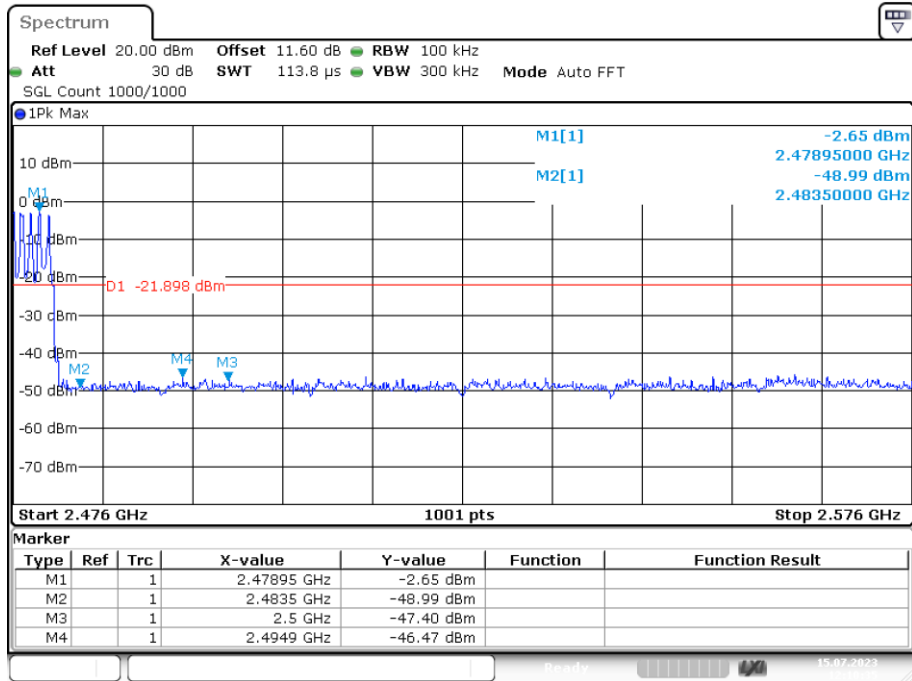
Date: 15.JUL.2023 11:55:41

Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



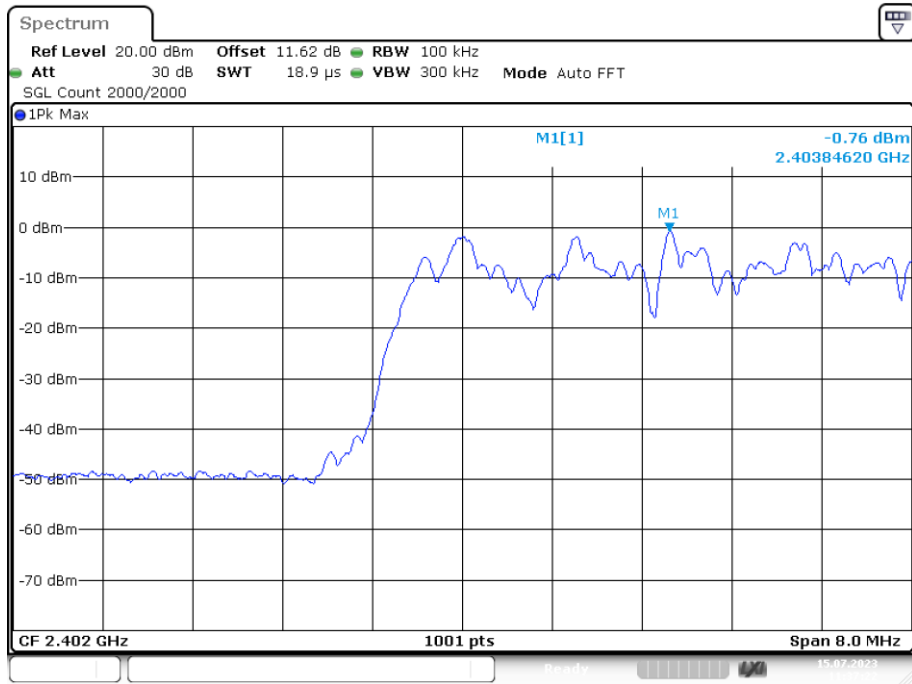
Date: 15.JUL.2023 12:10:06

Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



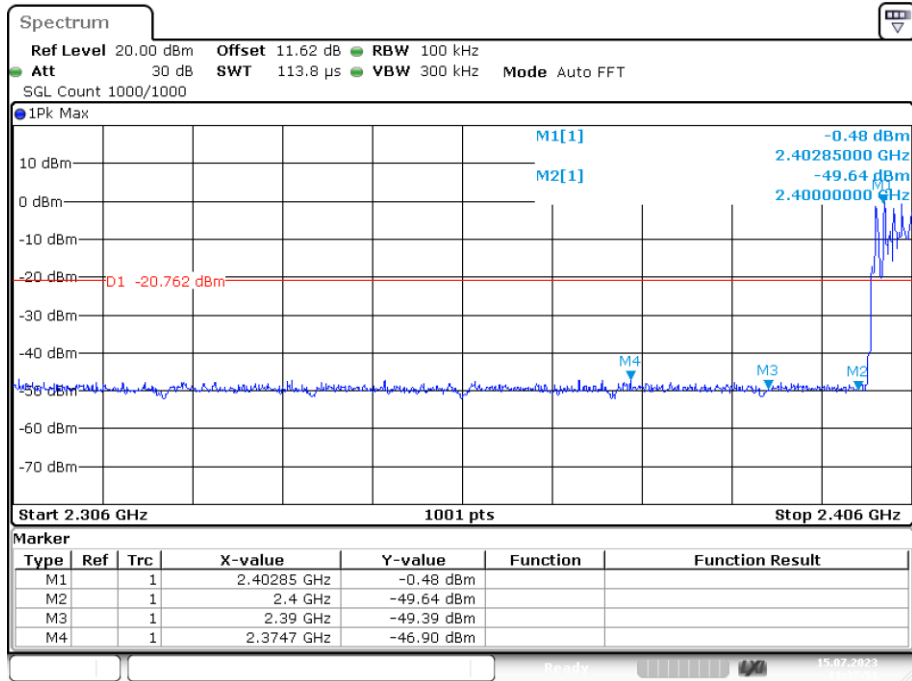
Date: 15.JUL.2023 12:10:35

Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



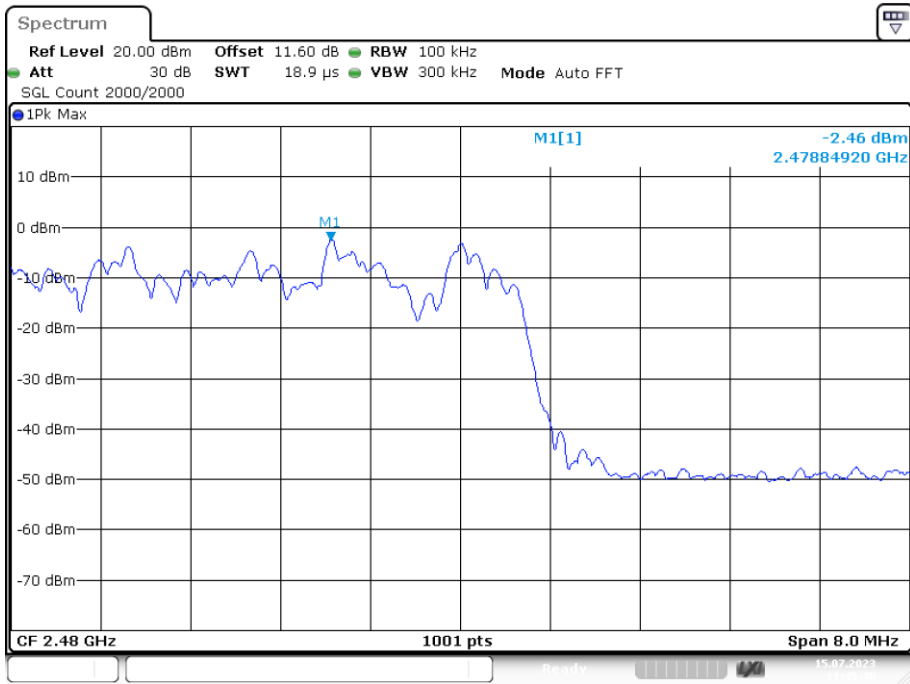
Date: 15.JUL.2023 11:37:22

Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



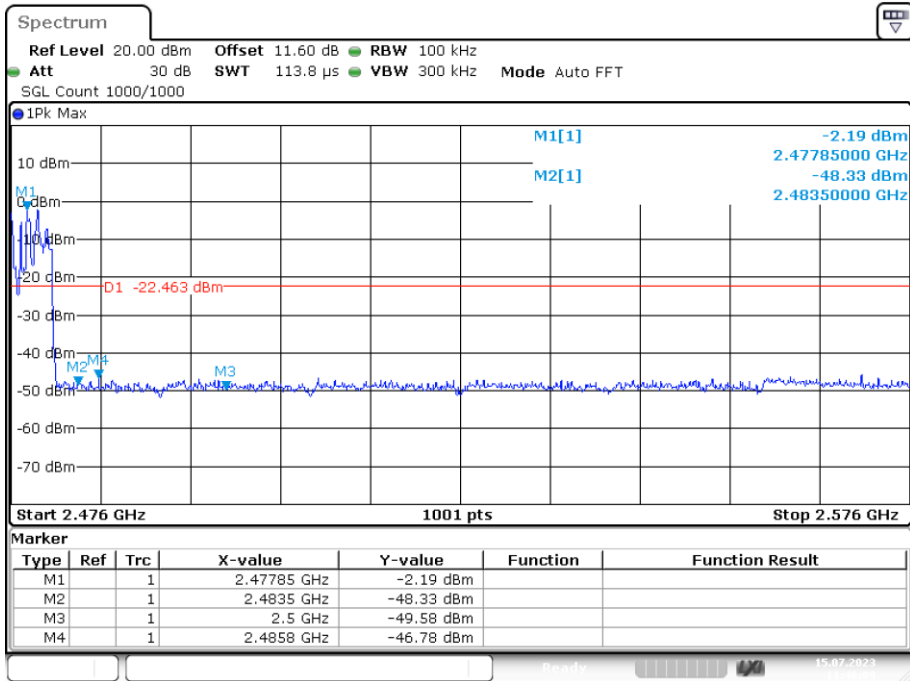
Date: 15.JUL.2023 11:37:51

Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



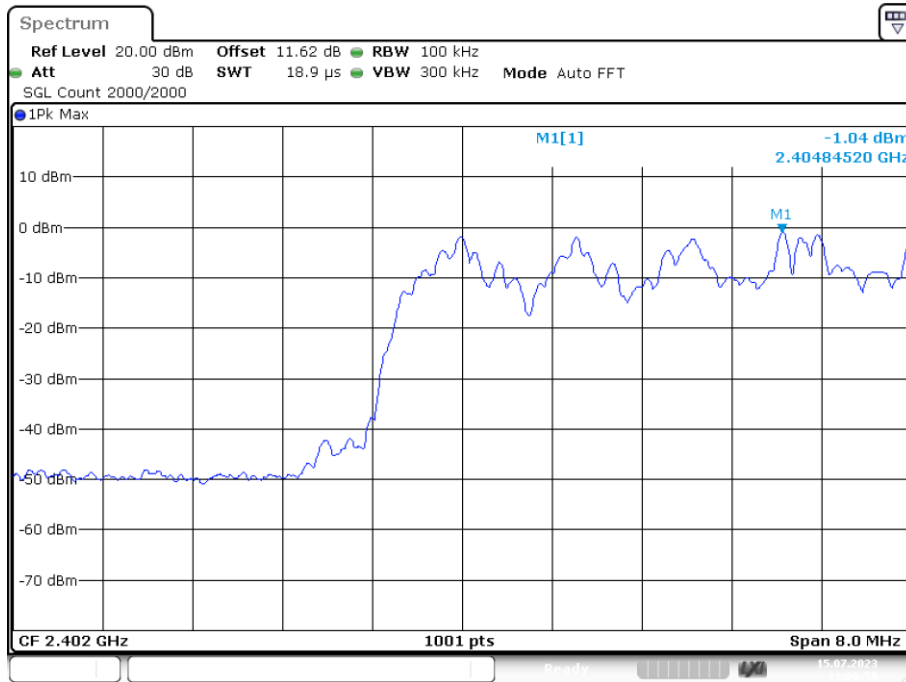
Date: 15.JUL.2023 11:45:40

Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



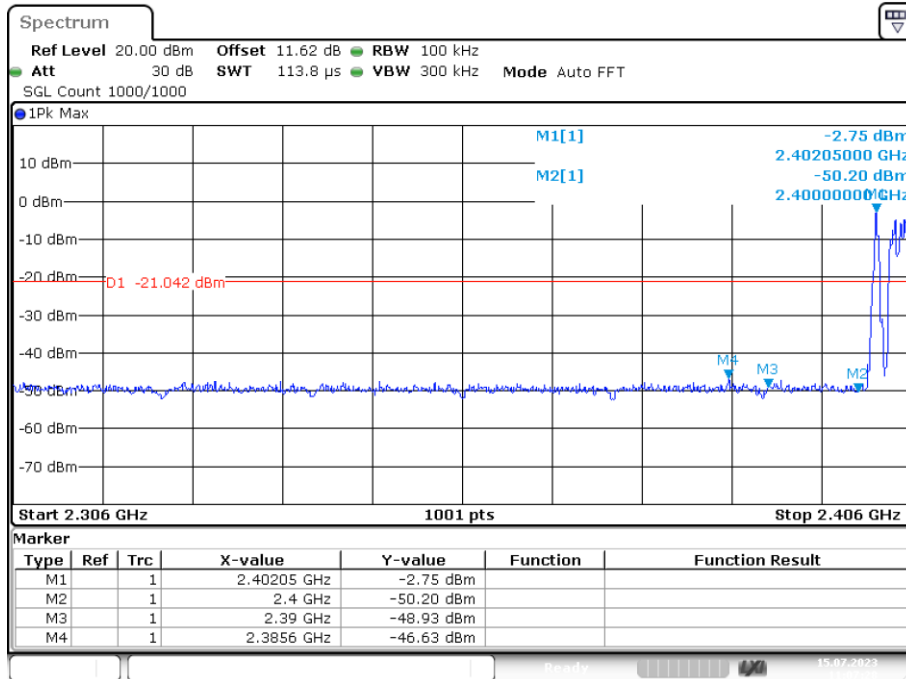
Date: 15.JUL.2023 11:46:09

Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



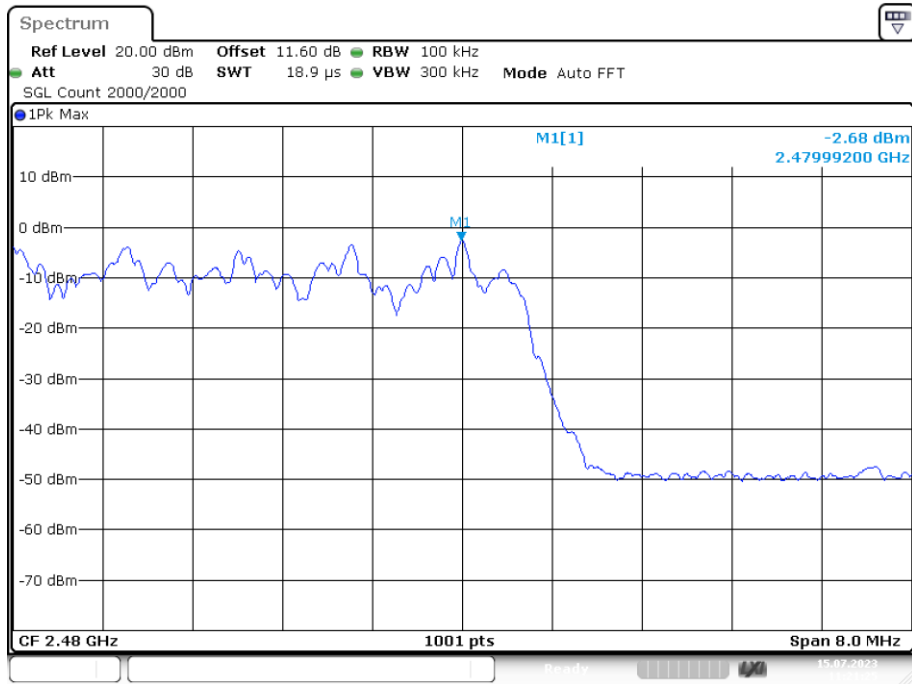
Date: 15.JUL.2023 11:06:59

Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



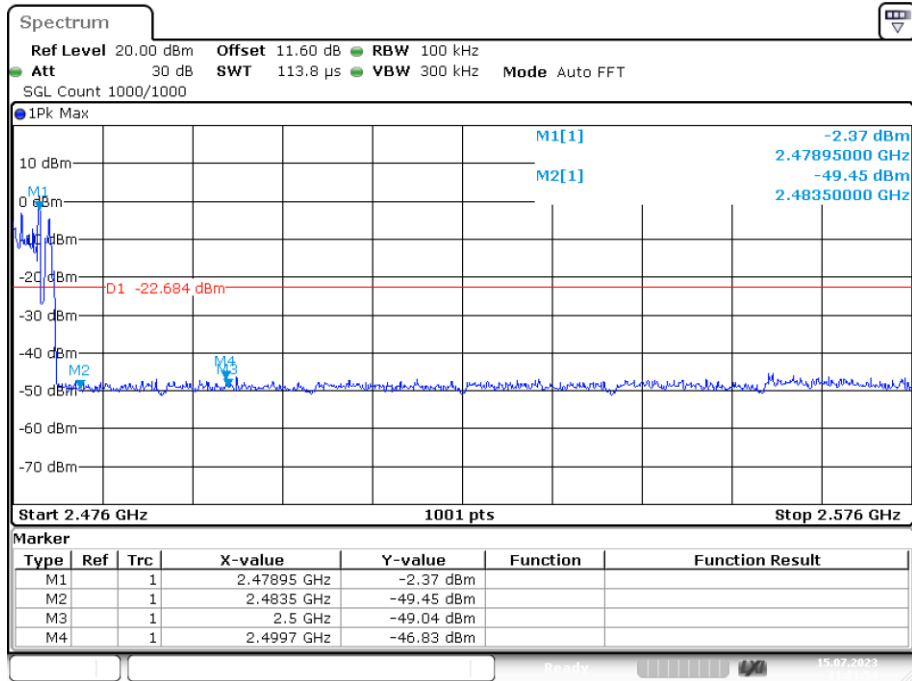
Date: 15.JUL.2023 11:07:28

Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



Date: 15.JUL.2023 11:21:25

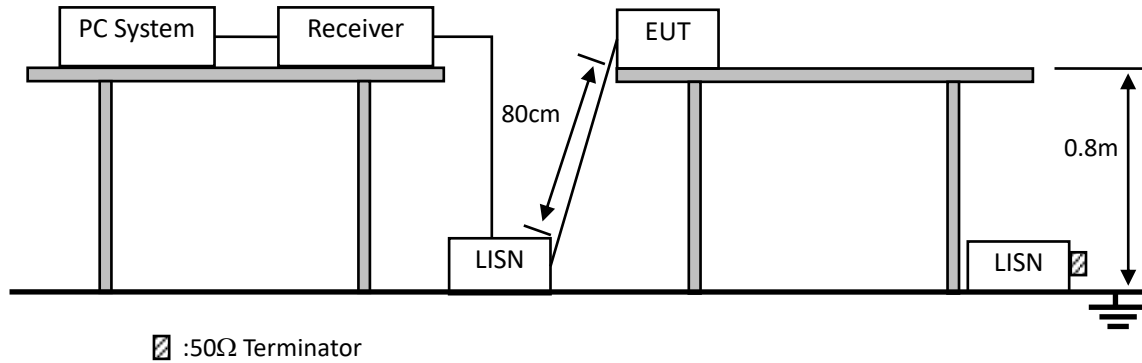
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission



Date: 15.JUL.2023 11:21:54

10. POWER LINE CONDUCTED EMISSIONS

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

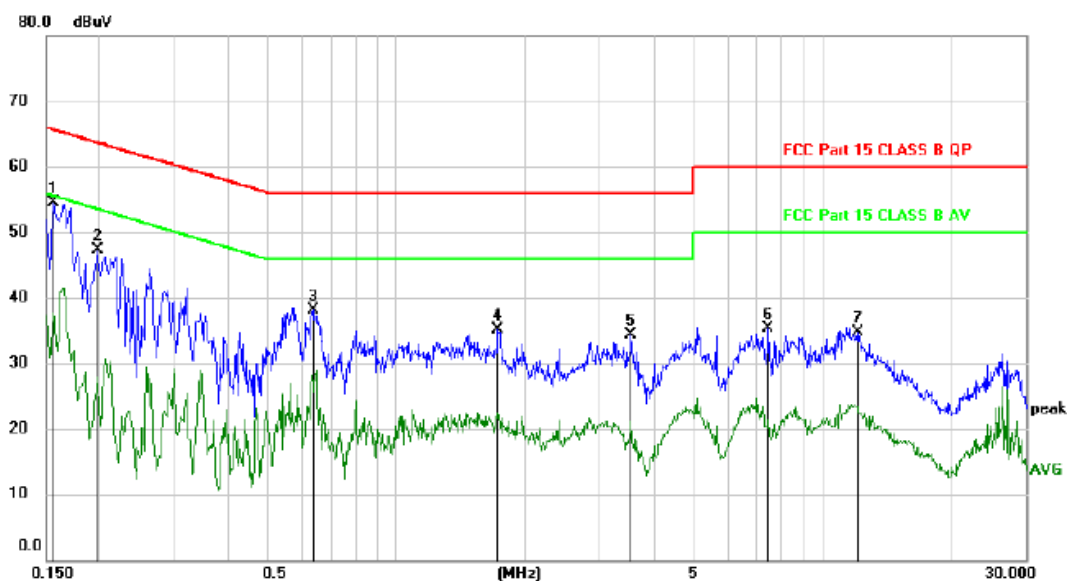
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:

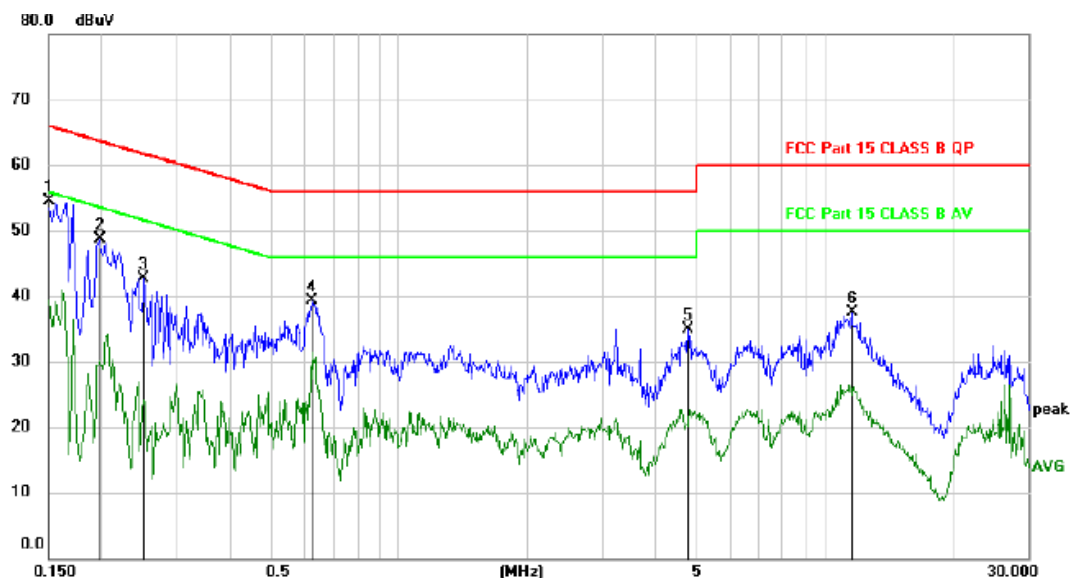


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1560	44.67	9.83	54.50	65.67	-11.17	peak	
2		0.1980	37.40	9.83	47.23	63.69	-16.46	peak	
3		0.6360	28.18	9.83	38.01	56.00	-17.99	peak	
4		1.7340	25.29	9.78	35.07	56.00	-20.93	peak	
5		3.5580	24.51	9.83	34.34	56.00	-21.66	peak	
6		7.4820	25.34	9.93	35.27	60.00	-24.73	peak	
7		12.0659	24.65	10.06	34.71	60.00	-25.29	peak	

*:Maximum data x:Over limit !:over margin (Reference Only)
 Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

*:Maximum data x:Over limit !:over margin (Reference Only)
 Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Neutral:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	44.69	9.83	54.52	66.00	-11.48	peak	
2		0.1980	38.84	9.83	48.67	63.69	-15.02	peak	
3		0.2519	32.81	9.83	42.64	61.69	-19.05	peak	
4		0.6240	29.46	9.83	39.29	56.00	-16.71	peak	
5		4.7700	24.96	9.89	34.85	56.00	-21.15	peak	
6		11.6130	27.45	10.04	37.49	60.00	-22.51	peak	

*:Maximum data x:Over limit !:over margin (Reference Only)
 Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

*:Maximum data x:Over limit !:over margin (Reference Only)
 Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the TX 2402MHz mode with the worst data is listed.

11. ANTENNA REQUIREMENTS

11.1.Limit

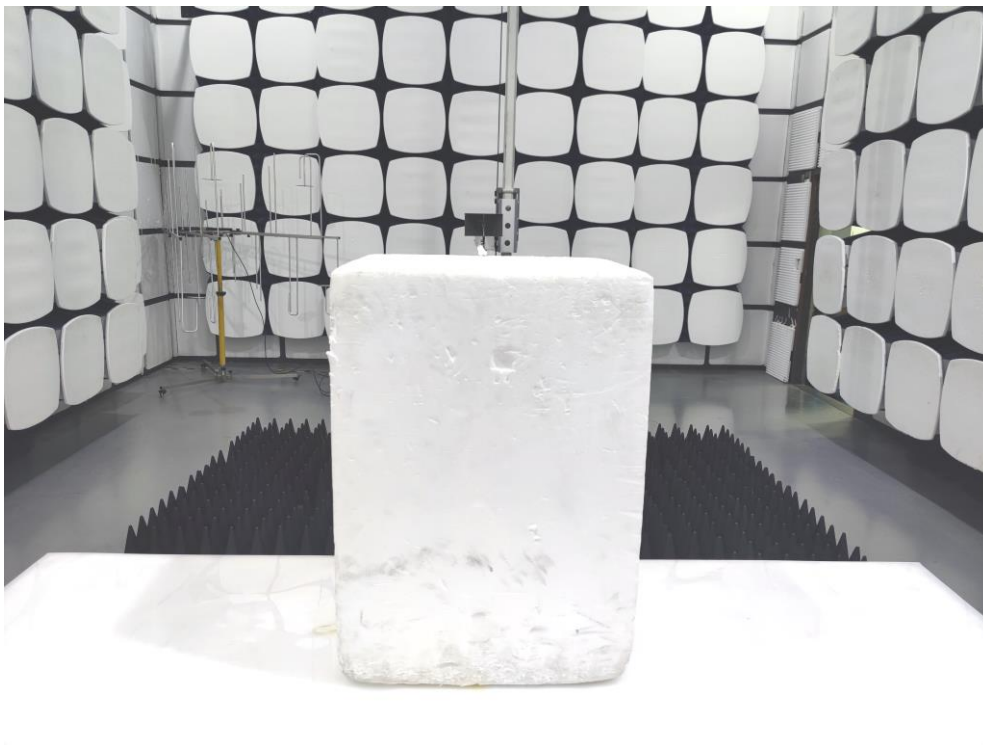
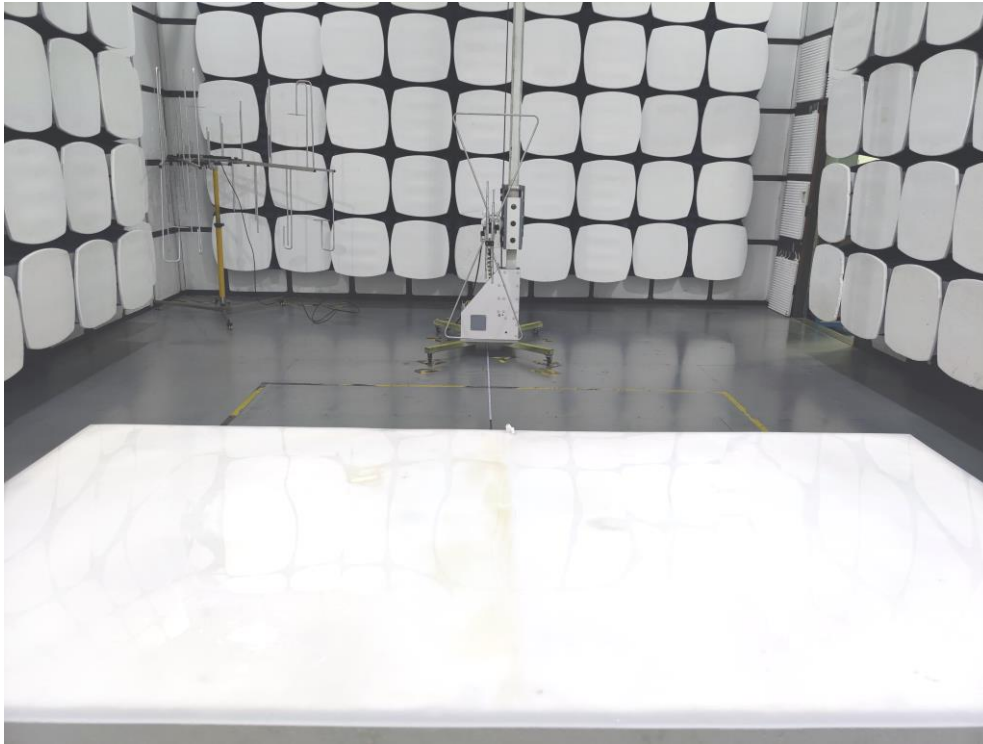
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2.Result

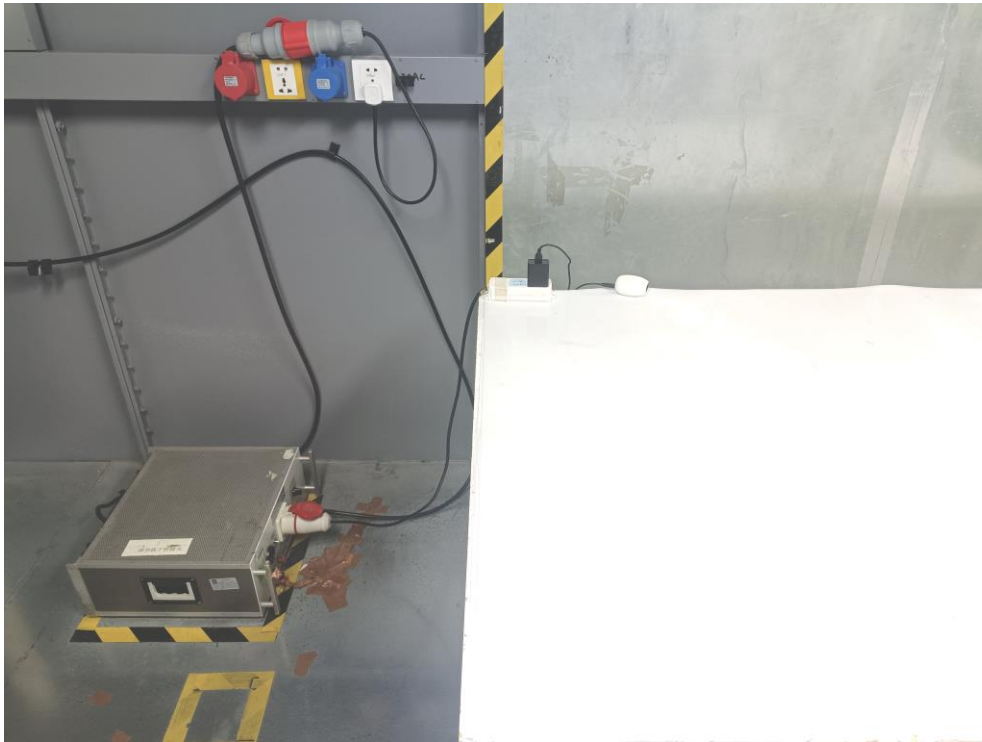
The EUT antenna is Internal Antenna. It complies with the standard requirement.

12. TEST SETUP PHOTO

12.1. Photos of Radiated emission



12.2.Photos of Conducted Emission test



13. PHOTOS OF EUT



