

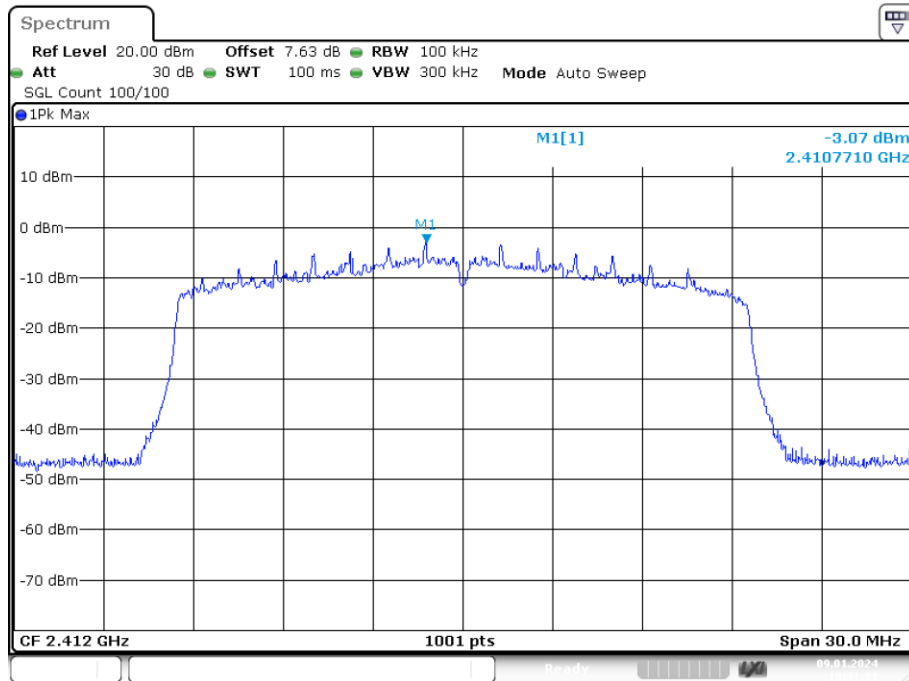
6.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant1	-3.075	8	Pass
NVNT	ax20	2437	Ant1	-4.289	8	Pass
NVNT	ax20	2462	Ant1	-2.106	8	Pass
NVNT	ax40	2422	Ant1	-7.222	8	Pass
NVNT	ax40	2437	Ant1	-8.892	8	Pass
NVNT	ax40	2452	Ant1	-8.914	8	Pass
NVNT	b	2412	Ant1	7.484	8	Pass
NVNT	b	2437	Ant1	7.133	8	Pass
NVNT	b	2462	Ant1	6.26	8	Pass
NVNT	g	2412	Ant1	1.751	8	Pass
NVNT	g	2437	Ant1	0.114	8	Pass
NVNT	g	2462	Ant1	-0.111	8	Pass
NVNT	n20	2412	Ant1	4.384	8	Pass
NVNT	n20	2437	Ant1	2.18	8	Pass
NVNT	n20	2462	Ant1	2.635	8	Pass
NVNT	n40	2422	Ant1	-2.046	8	Pass
NVNT	n40	2437	Ant1	-2.64	8	Pass
NVNT	n40	2452	Ant1	-2.537	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant2	-3.851	8	Pass
NVNT	ax20	2437	Ant2	-5.959	8	Pass
NVNT	ax20	2462	Ant2	-6.154	8	Pass
NVNT	ax40	2422	Ant2	-7.491	8	Pass
NVNT	ax40	2437	Ant2	-8.861	8	Pass
NVNT	ax40	2452	Ant2	-8.806	8	Pass
NVNT	b	2412	Ant2	6.073	8	Pass
NVNT	b	2437	Ant2	6.39	8	Pass
NVNT	b	2462	Ant2	6.592	8	Pass
NVNT	g	2412	Ant2	0.365	8	Pass
NVNT	g	2437	Ant2	0.38	8	Pass
NVNT	g	2462	Ant2	0.291	8	Pass
NVNT	n20	2412	Ant2	1.77	8	Pass
NVNT	n20	2437	Ant2	1.816	8	Pass
NVNT	n20	2462	Ant2	1.594	8	Pass
NVNT	n40	2422	Ant2	-2.395	8	Pass
NVNT	n40	2437	Ant2	-3.911	8	Pass
NVNT	n40	2452	Ant2	-4.271	8	Pass

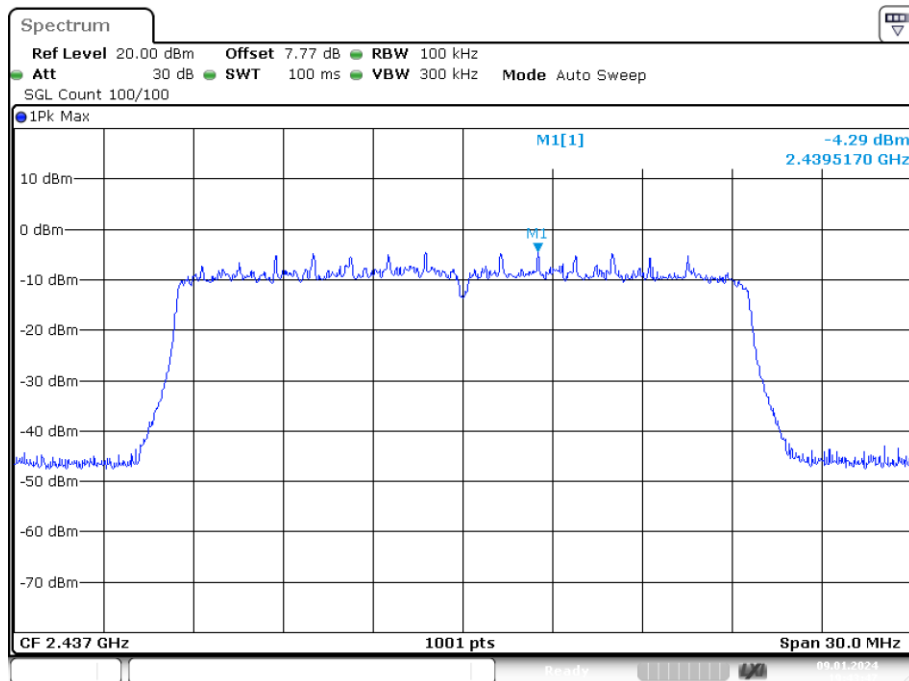
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NVNT	ax20	2412	MIMO	-0.44	8	Pass
NVNT	ax20	2437	MIMO	-2.03	8	Pass
NVNT	ax20	2462	MIMO	-0.66	8	Pass
NVNT	ax40	2422	MIMO	-4.34	8	Pass
NVNT	ax40	2437	MIMO	-5.87	8	Pass
NVNT	ax40	2452	MIMO	-5.85	8	Pass
NVNT	n20	2412	MIMO	6.28	8	Pass
NVNT	n20	2437	MIMO	5.01	8	Pass
NVNT	n20	2462	MIMO	5.16	8	Pass
NVNT	n40	2422	MIMO	0.79	8	Pass
NVNT	n40	2437	MIMO	-0.22	8	Pass
NVNT	n40	2452	MIMO	-0.31	8	Pass

PSD NVNT ax20 2412MHz Ant1



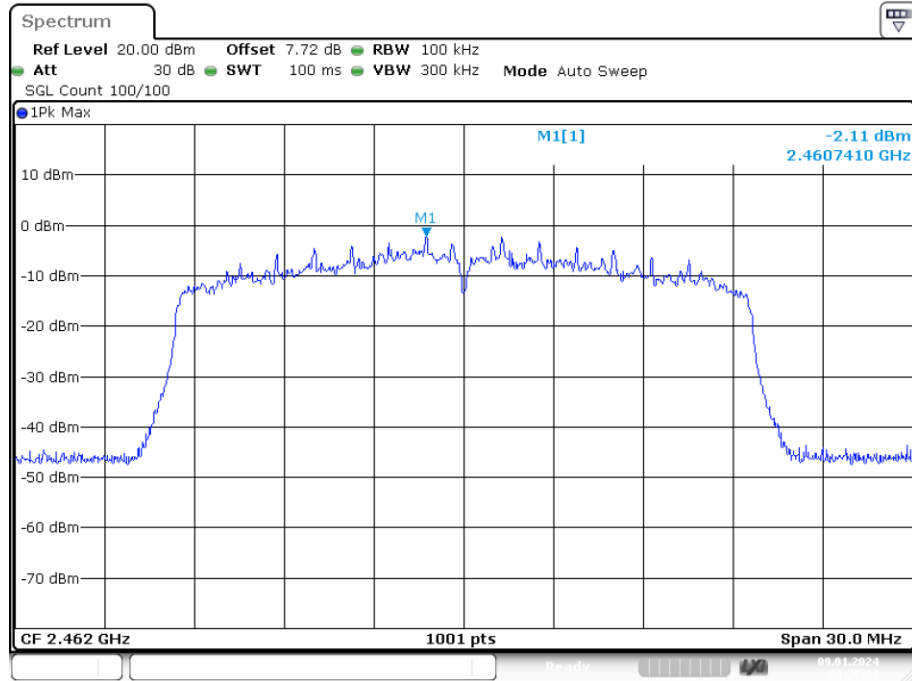
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PSD NVNT ax20 2437MHz Ant1



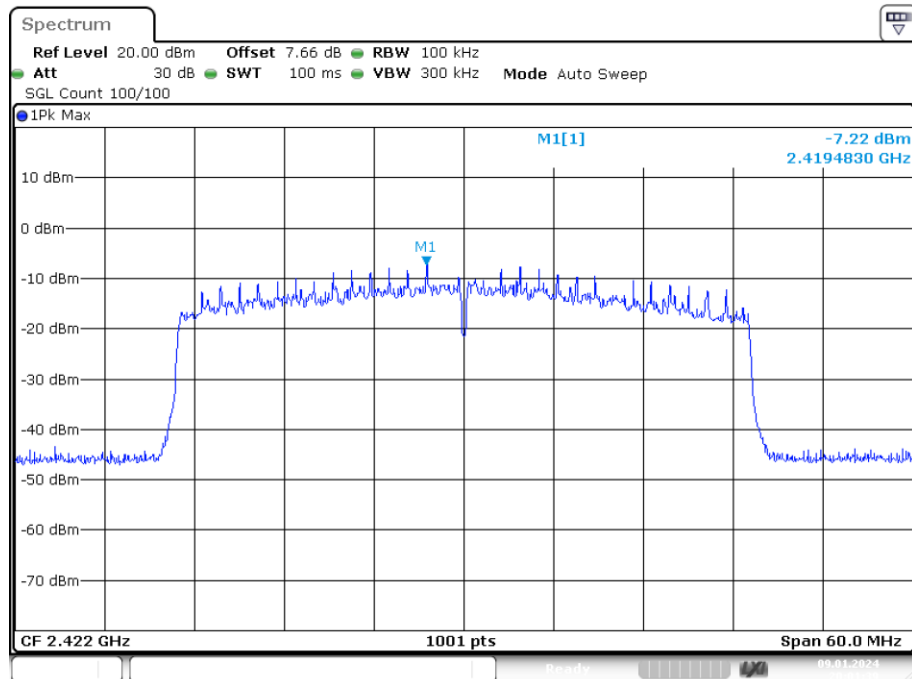
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PSD NVNT ax20 2462MHz Ant1



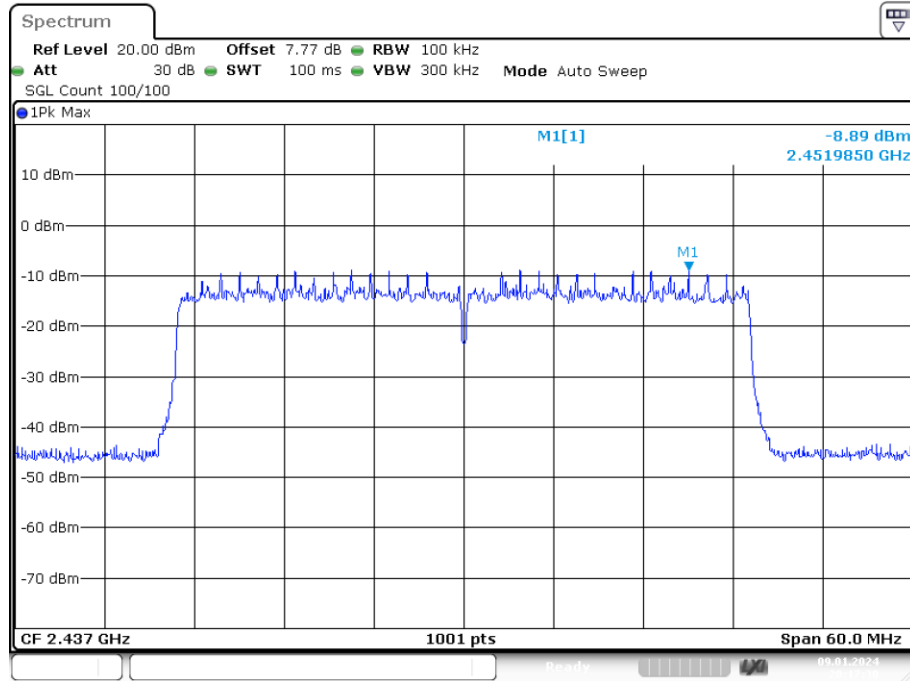
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PSD NVNT ax40 2422MHz Ant1



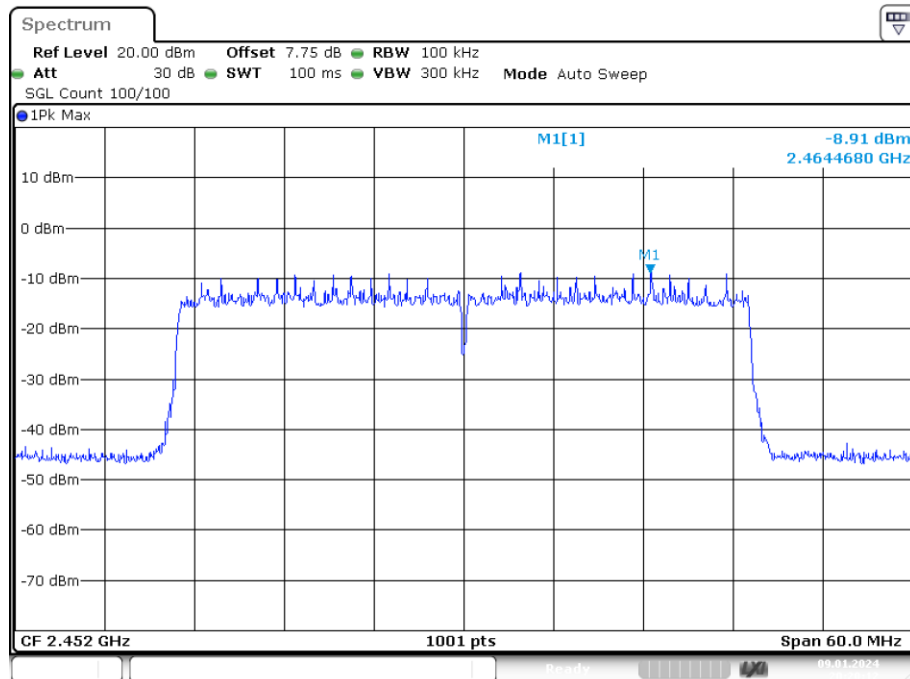
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PSD NVNT ax40 2437MHz Ant1



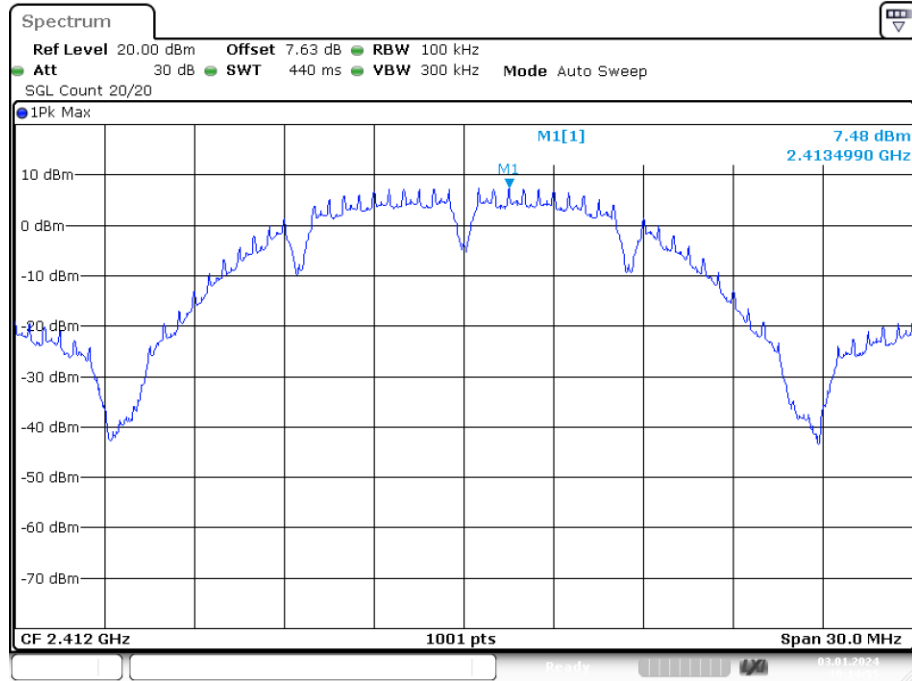
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PSD NVNT ax40 2452MHz Ant1



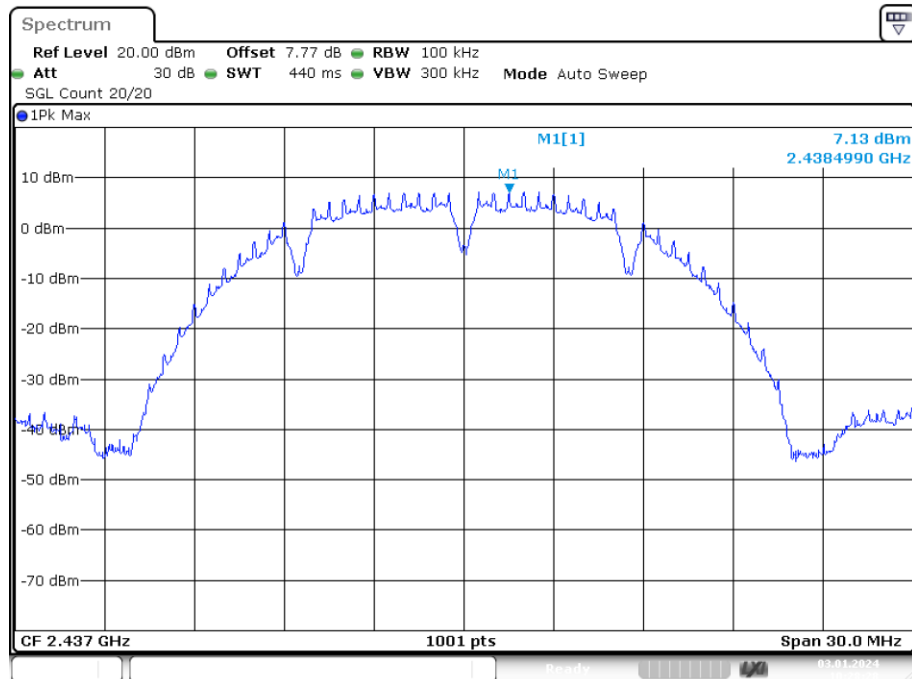
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PSD NVNT b 2412MHz Ant1



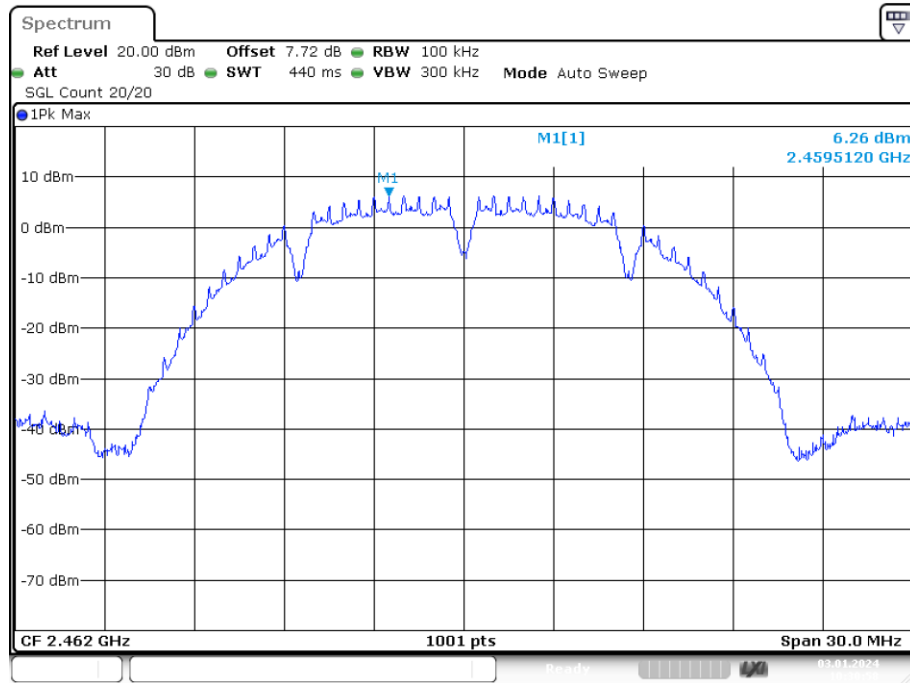
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PSD NVNT b 2437MHz Ant1



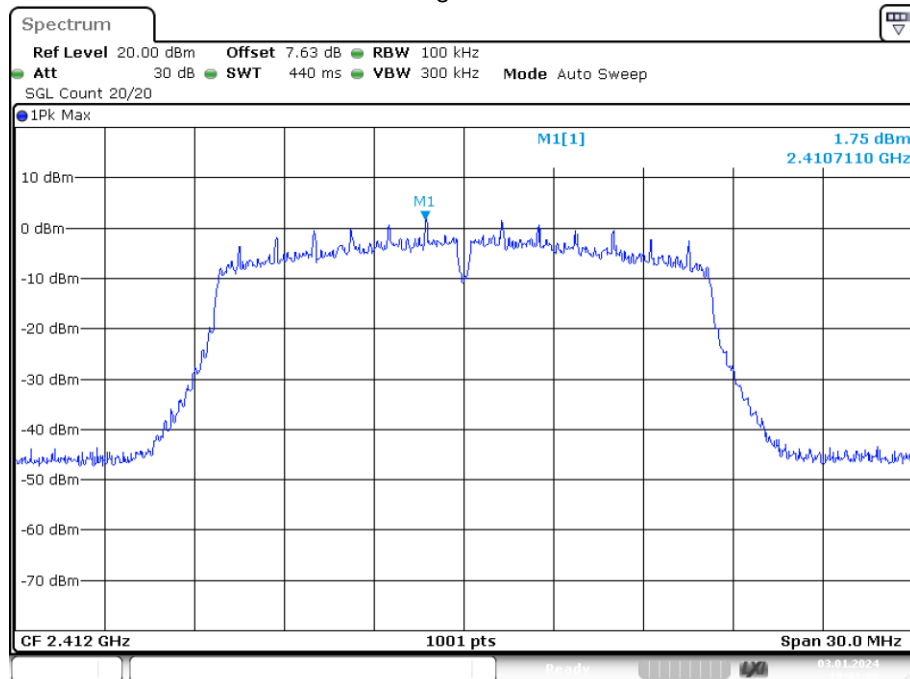
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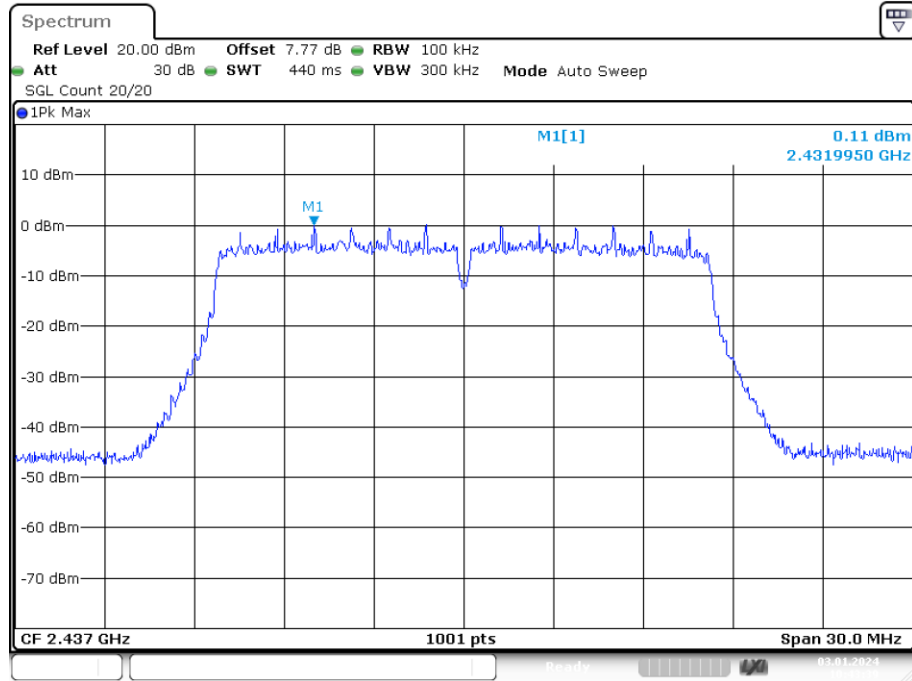
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PSD NVNT g 2412MHz Ant1



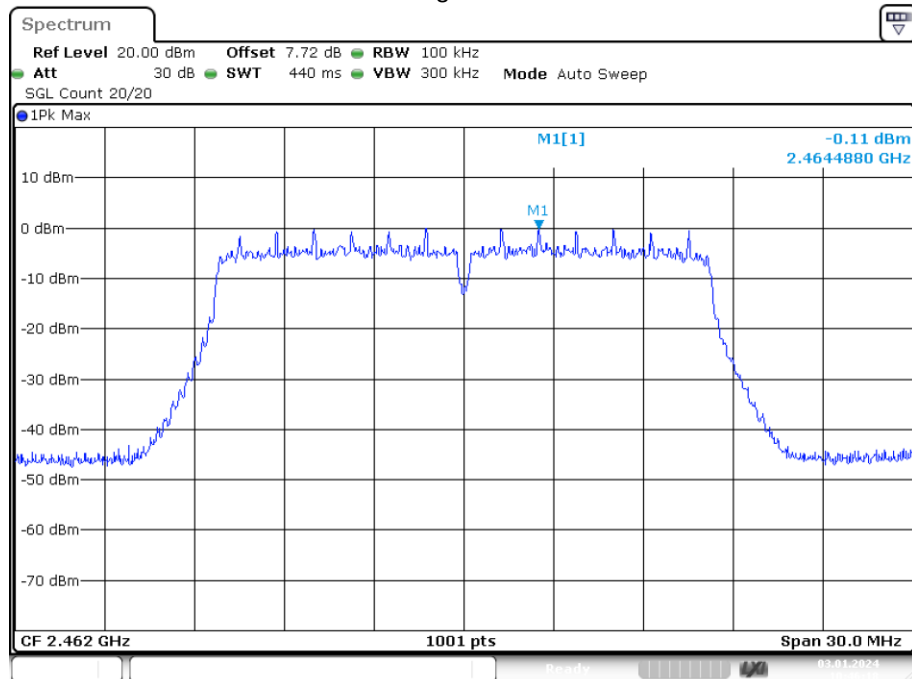
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PSD NVNT g 2437MHz Ant1



Date: 3.JAN.2024 10:43:40

PSD NVNT g 2462MHz Ant1



Date: 3.JAN.2024 10:46:18

Spectrum

Ref Level 20.00 dBm Offset 7.63 dB RBW 100 kHz
 Att 30 dB SWT 440 ms VBW 300 kHz Mode Auto Sweep
 SGL Count 20/20

● 1Pk Max

M1

M1[1]

4.38 dBm
2.4107410 GHz

CF 2.412 GHz 1001 pts Span 30.0 GHz

Ready

03.01.2024

Date: 3.JAN.2024 13:41:46

Spectrum

Ref Level 20.00 dBm Offset 7.77 dB RBW 100 kHz
 Att 30 dB SWT 440 ms VBW 300 kHz Mode Auto Sweep
 SGL Count 20/20

● 1Pk Max

M1

M1[1]

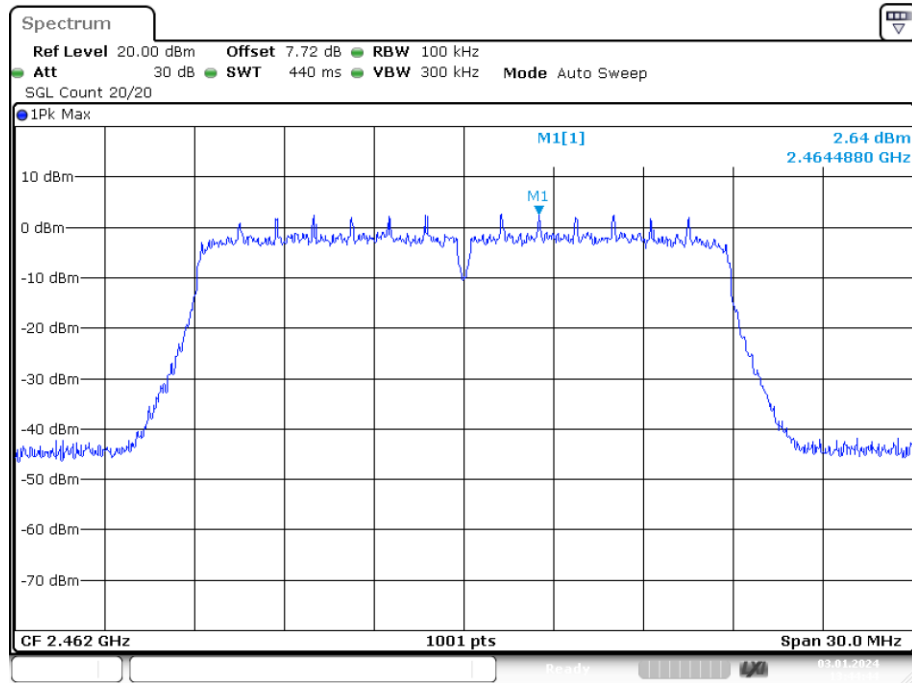
2.18 dBm
2.4357410 GHz

CF 2.437 GHz 1001 pts Span 30.0 MHz

03.01.2024

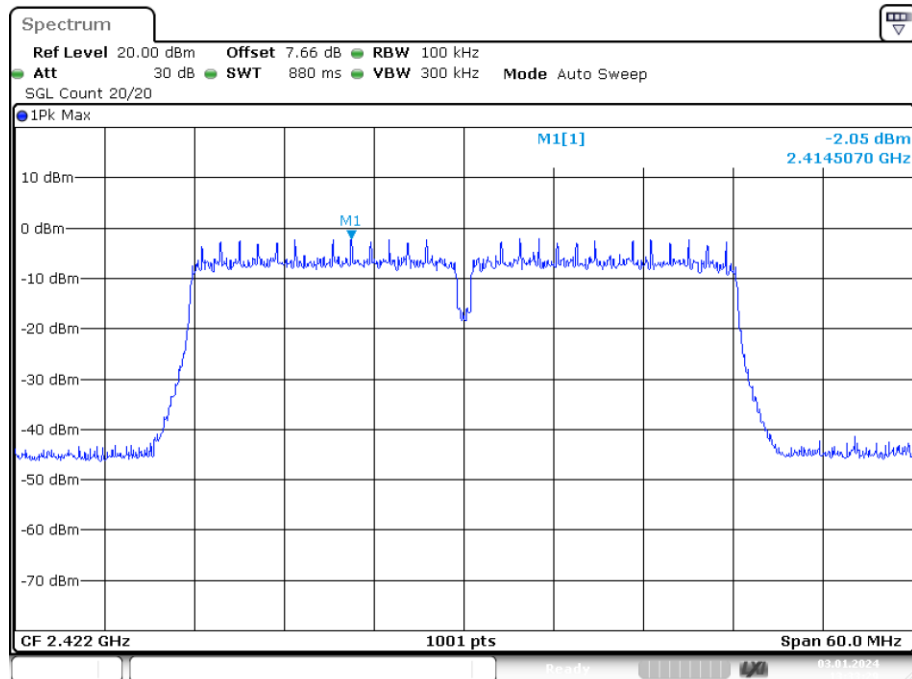
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PSD NVNT n20 2462MHz Ant1



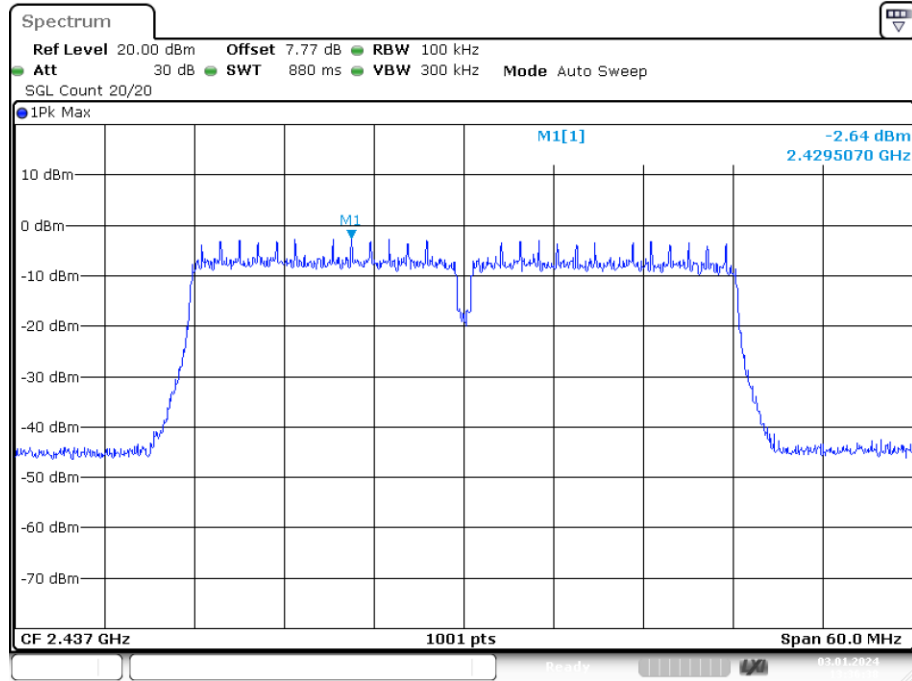
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PSD NVNT n40 2422MHz Ant1



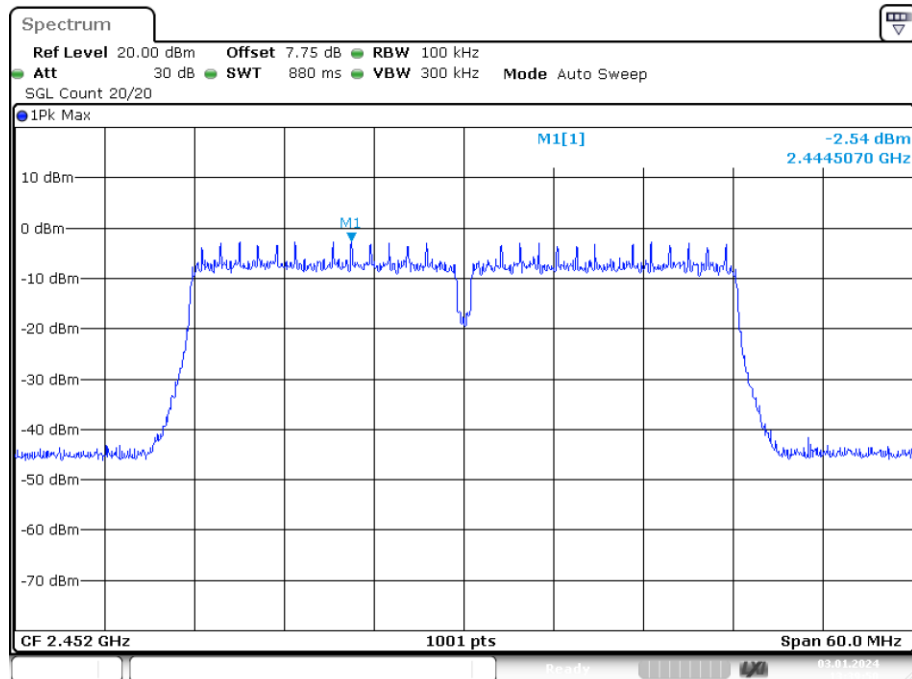
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PSD NVNT n40 2437MHz Ant1



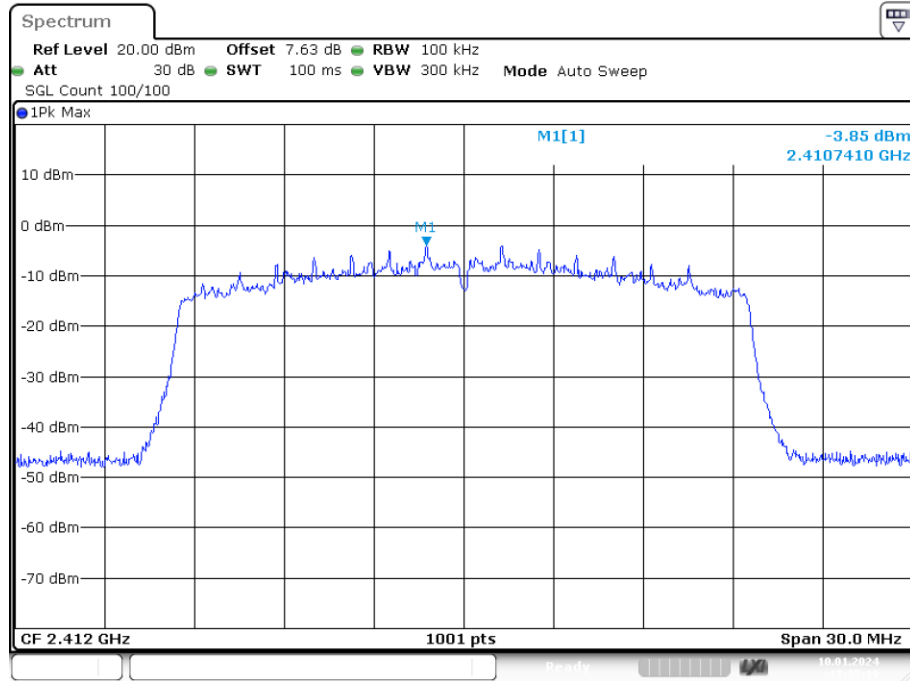
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PSD NVNT n40 2452MHz Ant1



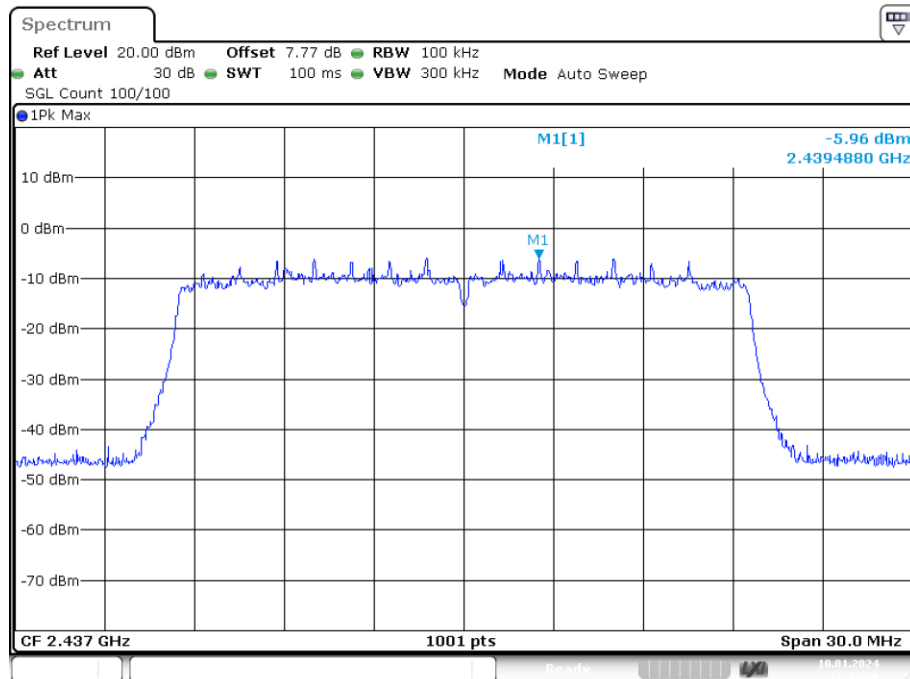
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PSD NVNT ax20 2412MHz Ant2



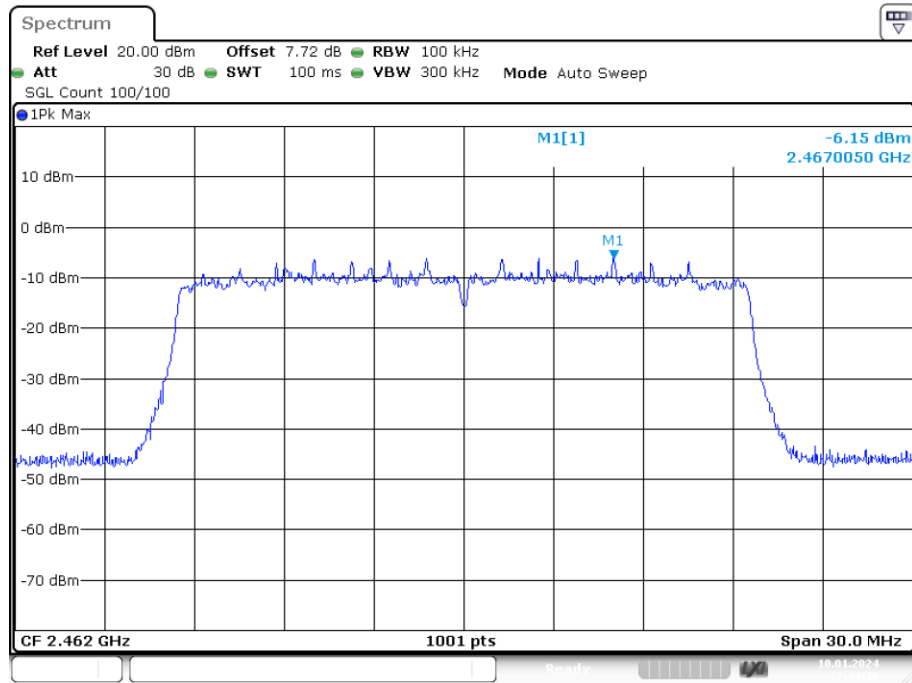
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PSD NVNT ax20 2437MHz Ant2



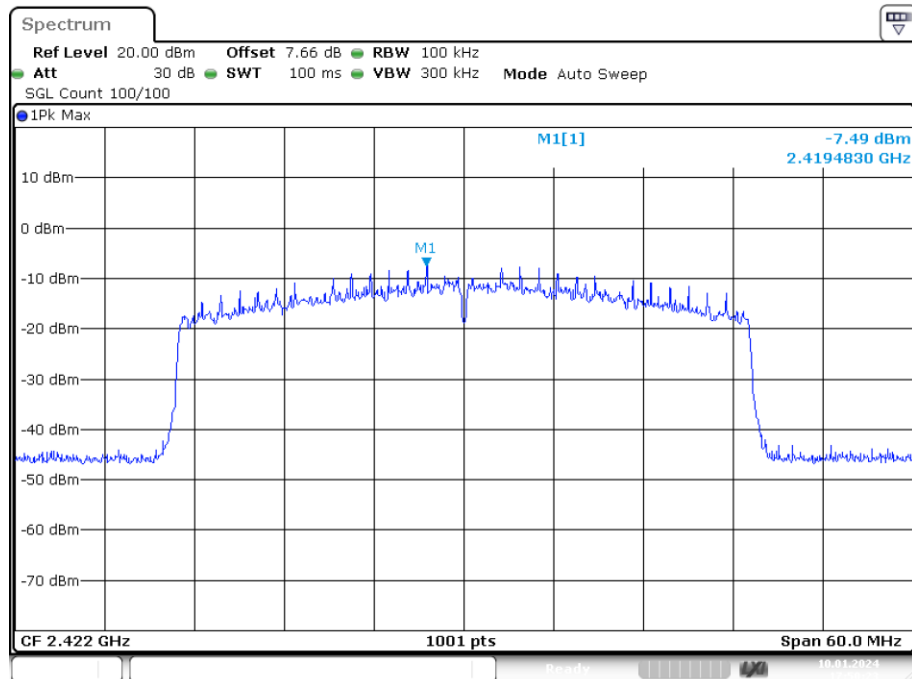
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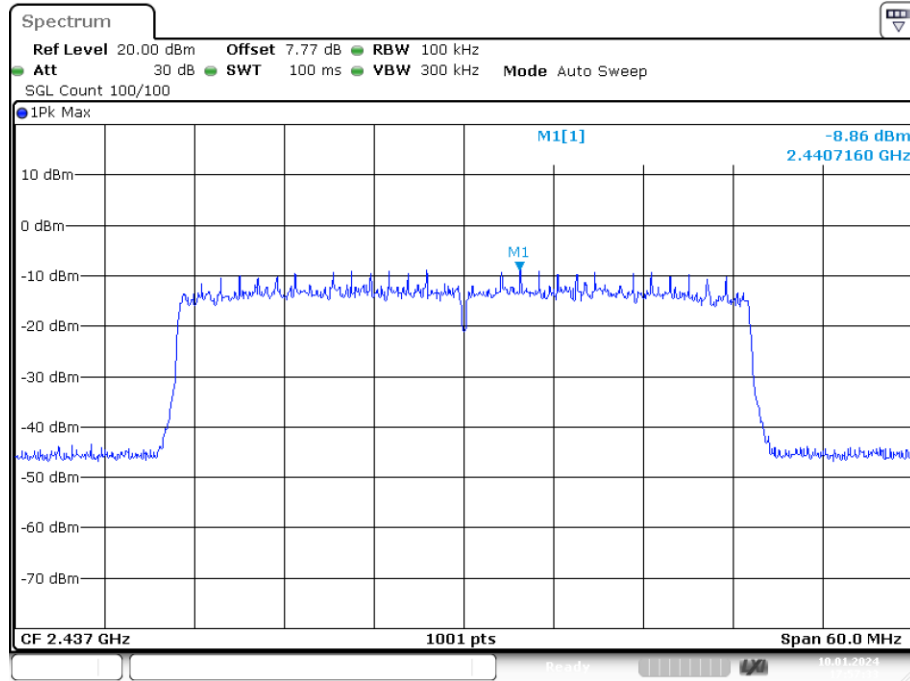
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PSD NVNT ax40 2422MHz Ant2



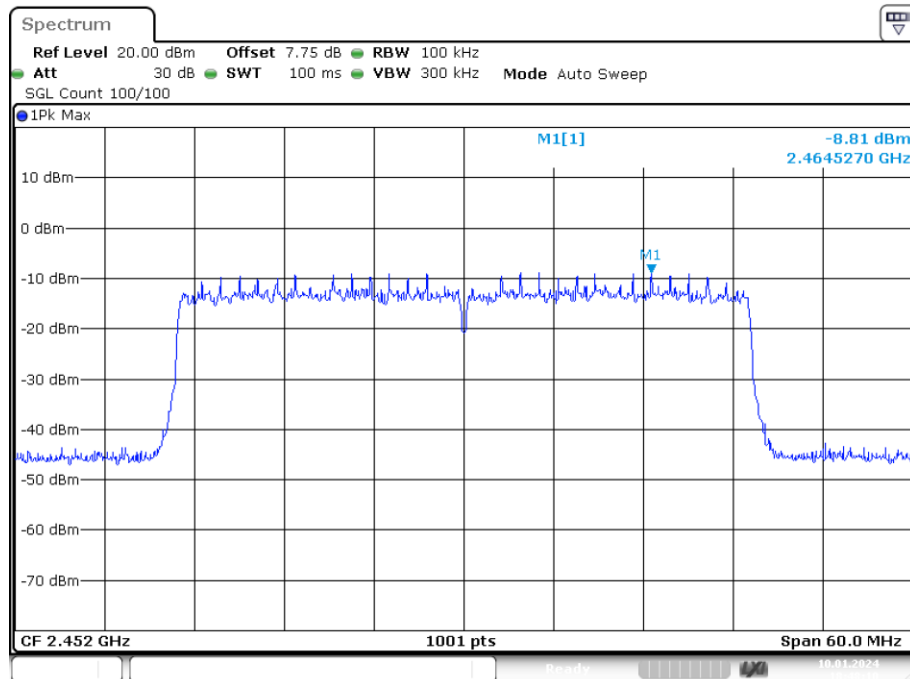
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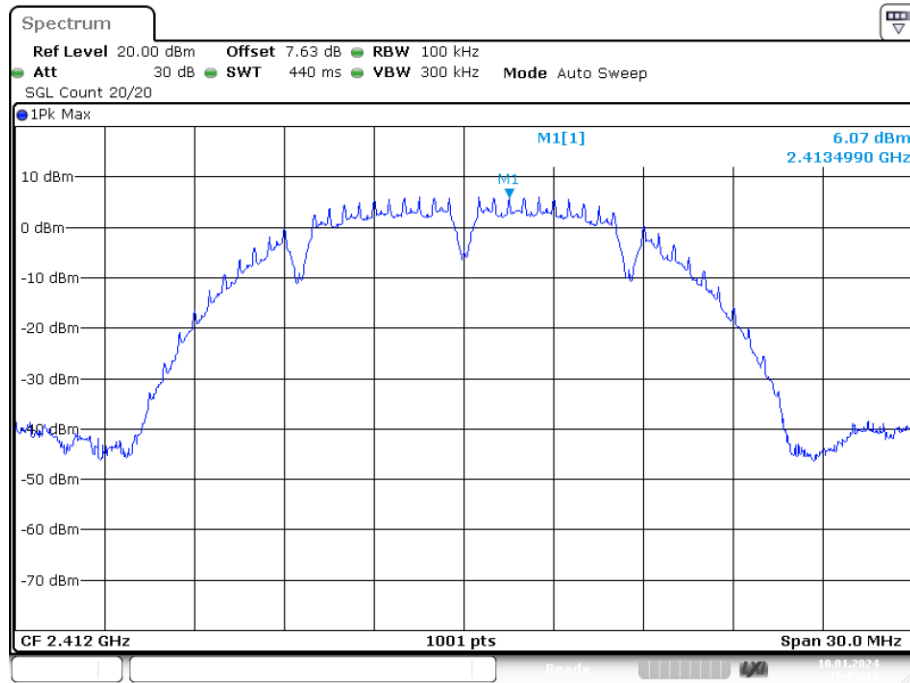
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PSD NVNT ax40 2452MHz Ant2



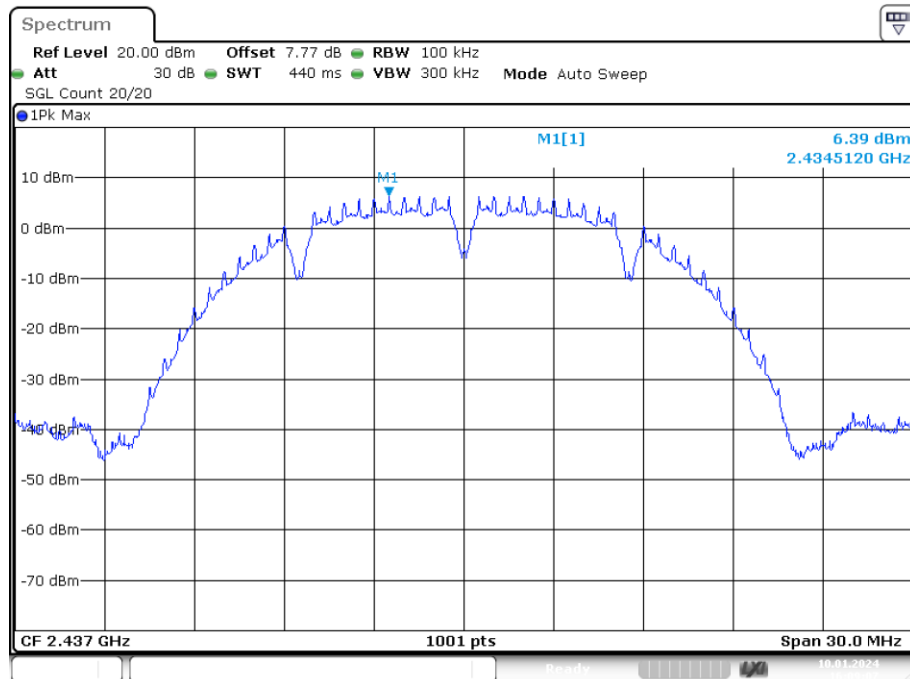
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PSD NVNT b 2412MHz Ant2



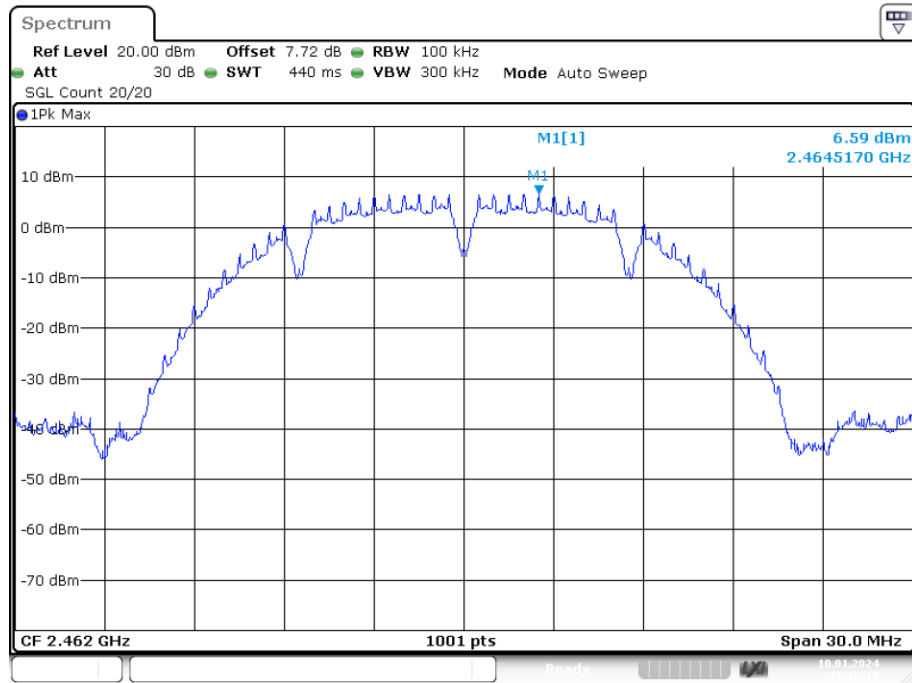
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PSD NVNT b 2437MHz Ant2



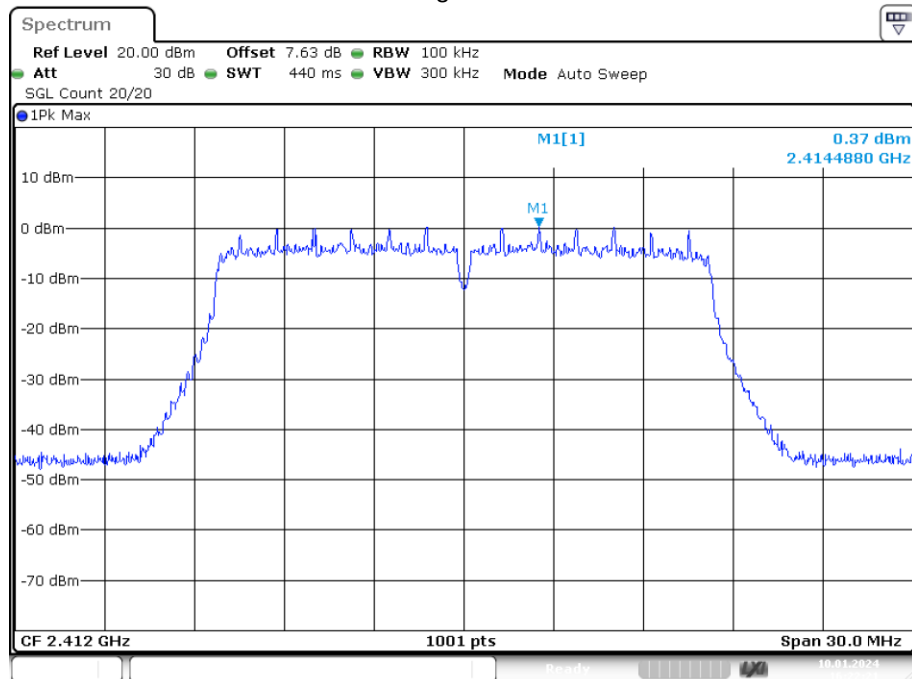
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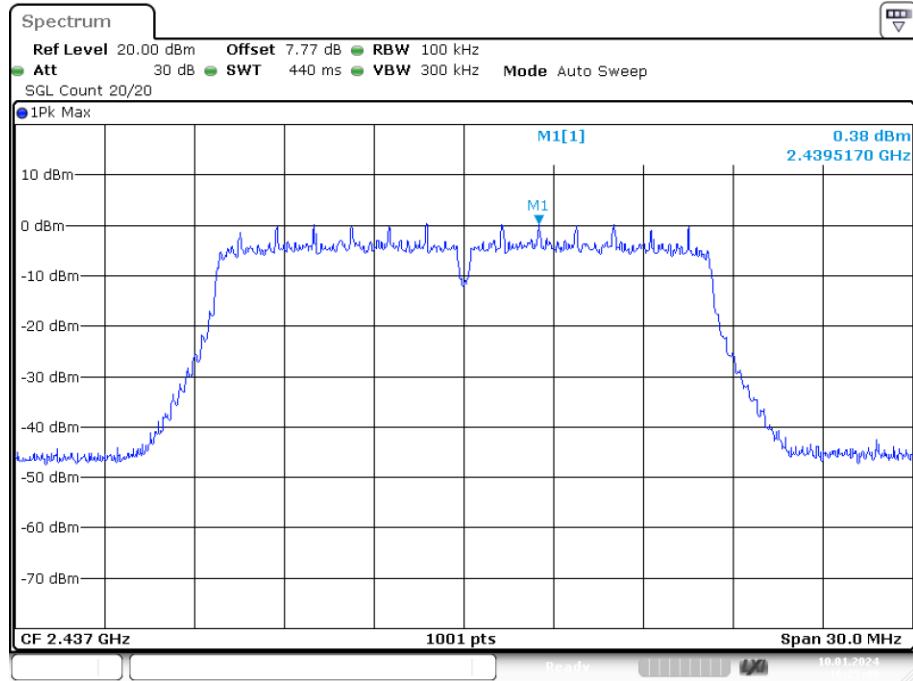
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PSD NVNT g 2412MHz Ant2



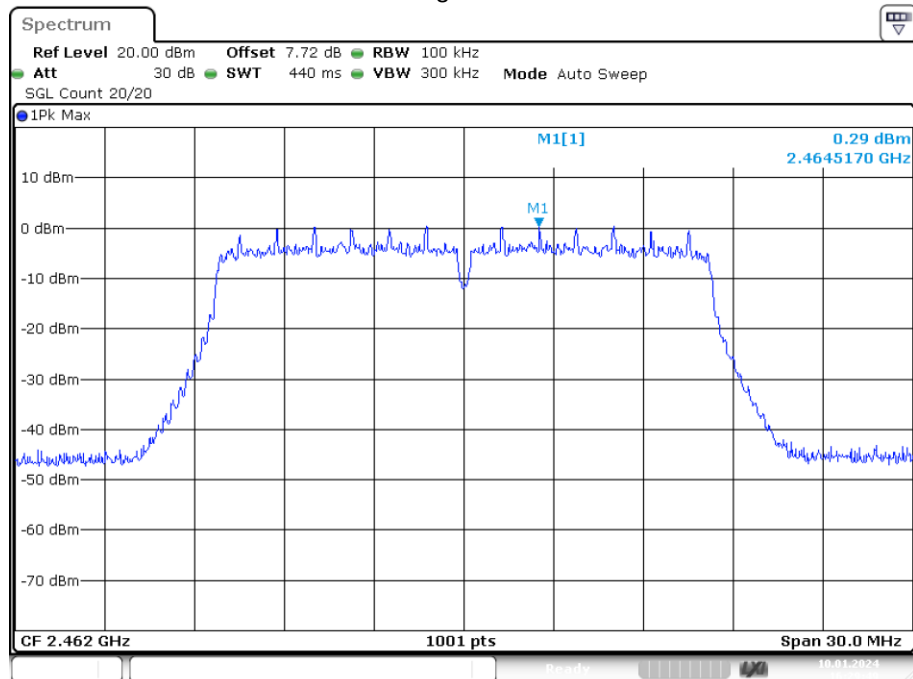
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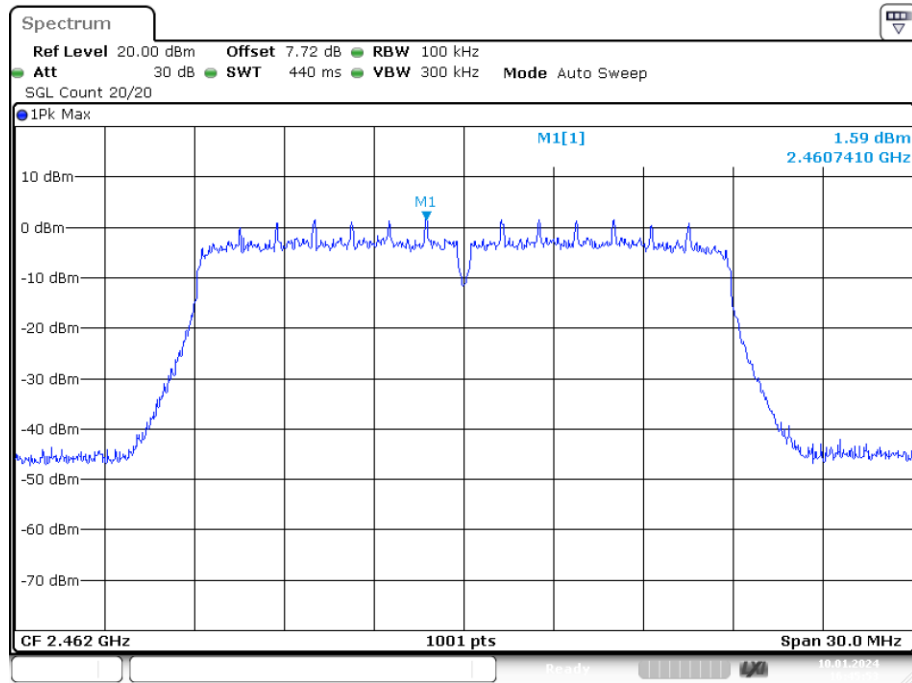
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PSD NVNT g 2462MHz Ant2

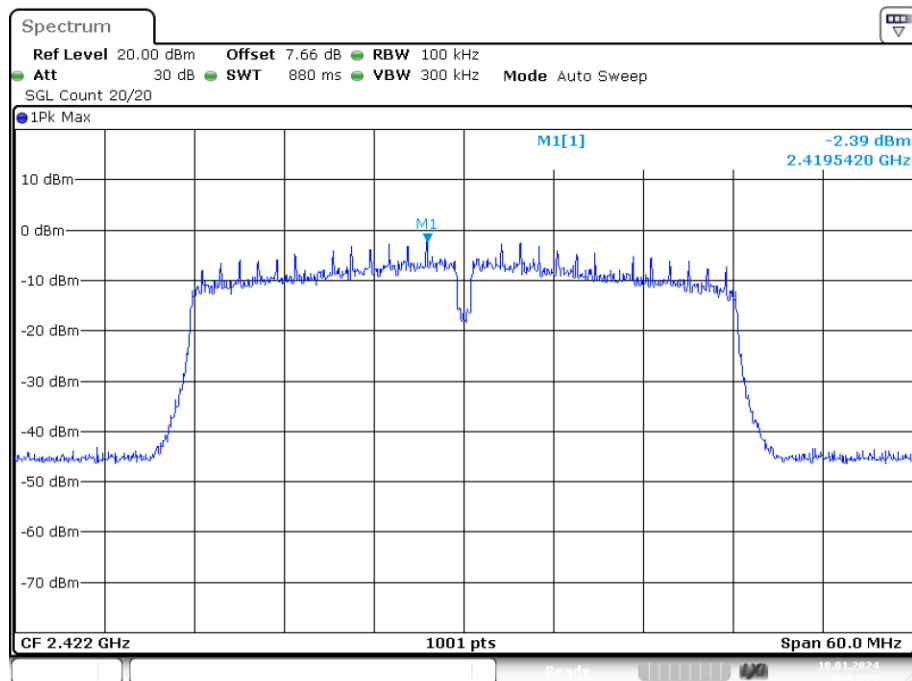


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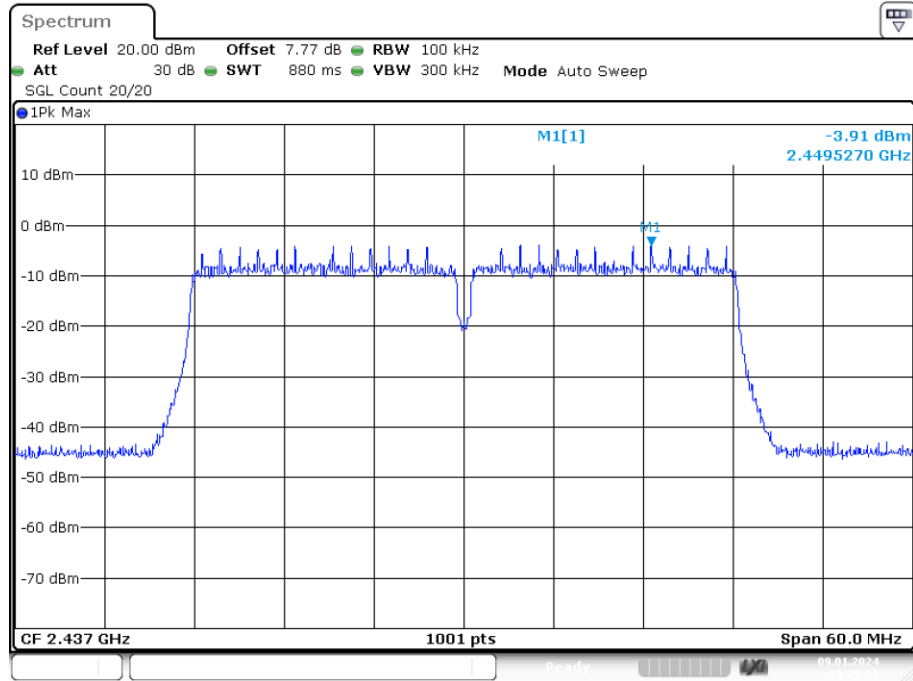
PSD NVNT n20 2462MHz Ant2



PSD NVNT n40 2422MHz Ant2

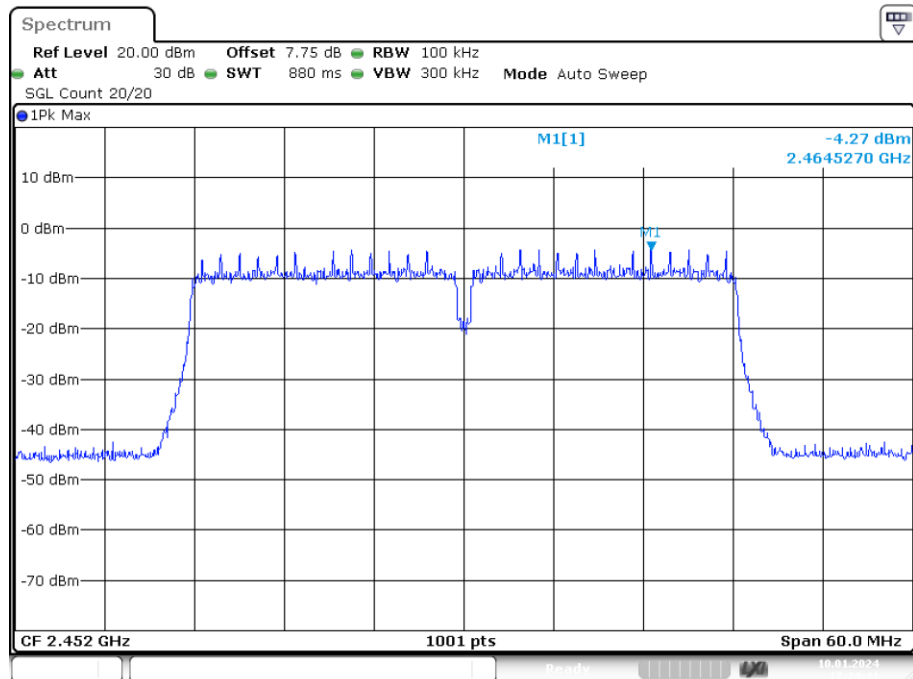


PSD NVNT n40 2437MHz Ant2



Date: 9.JAN.2024 19:29:10

PSD NVNT n40 2452MHz Ant2



Date: 10.JAN.2024 17:24:41

7. BANDWIDTH

7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2. Test Procedure

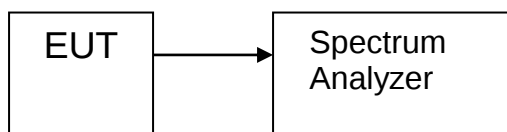
Details see the KDB558074 D01 Meas Guidance v05r02

a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b) The test receiver set RBW =1-5%BW, VBW≥3*RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth.

c) The test receiver set RBW = 100kHz, VBW≥3*RBW =300kHz, Sweep time set auto, detail see the test plot for 6dB Bandwidth.

7.3. Test Setup



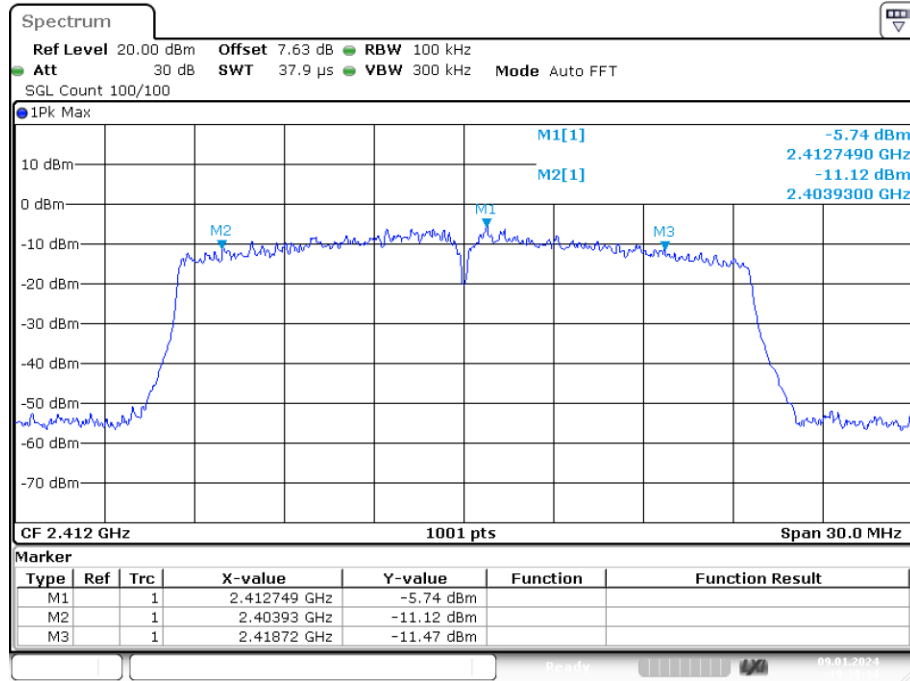
7.4. Test Results

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant1	14.79	0.5	Pass
NVNT	ax20	2437	Ant1	19.05	0.5	Pass
NVNT	ax20	2462	Ant1	15.39	0.5	Pass
NVNT	ax40	2422	Ant1	37.32	0.5	Pass
NVNT	ax40	2437	Ant1	37.86	0.5	Pass
NVNT	ax40	2452	Ant1	38.16	0.5	Pass
NVNT	b	2412	Ant1	11.07	0.5	Pass
NVNT	b	2437	Ant1	11.07	0.5	Pass
NVNT	b	2462	Ant1	10.11	0.5	Pass
NVNT	g	2412	Ant1	14.07	0.5	Pass
NVNT	g	2437	Ant1	16.53	0.5	Pass
NVNT	g	2462	Ant1	16.35	0.5	Pass
NVNT	n20	2412	Ant1	17.64	0.5	Pass
NVNT	n20	2437	Ant1	17.19	0.5	Pass
NVNT	n20	2462	Ant1	17.67	0.5	Pass
NVNT	n40	2422	Ant1	35.94	0.5	Pass
NVNT	n40	2437	Ant1	35.76	0.5	Pass
NVNT	n40	2452	Ant1	36.3	0.5	Pass

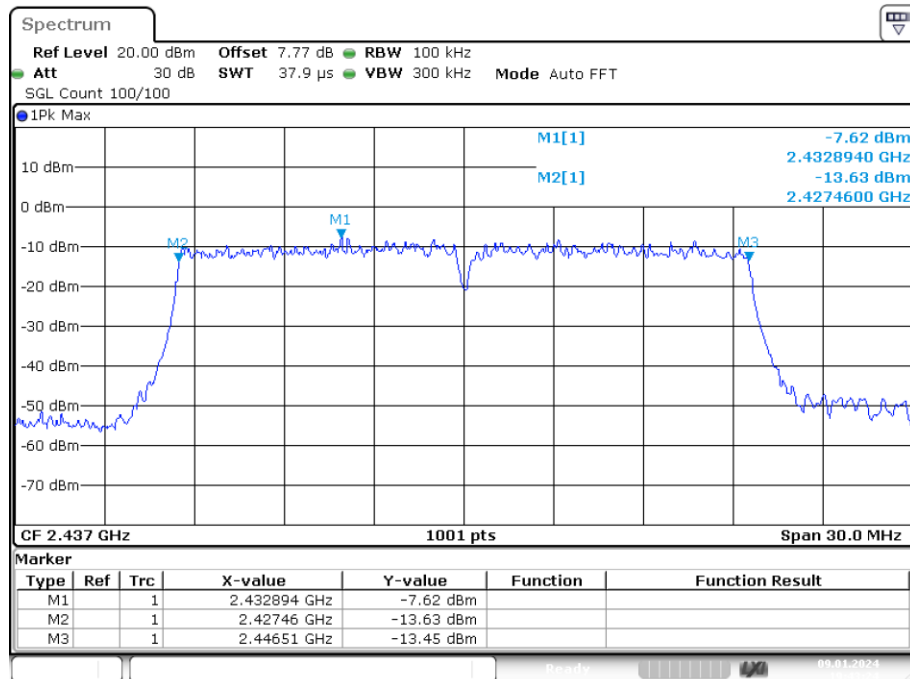
Note: 1.All antennas have been tested, only the worst data of each pattern is reflected.

-6dB Bandwidth NVNT ax20 2412MHz Ant1



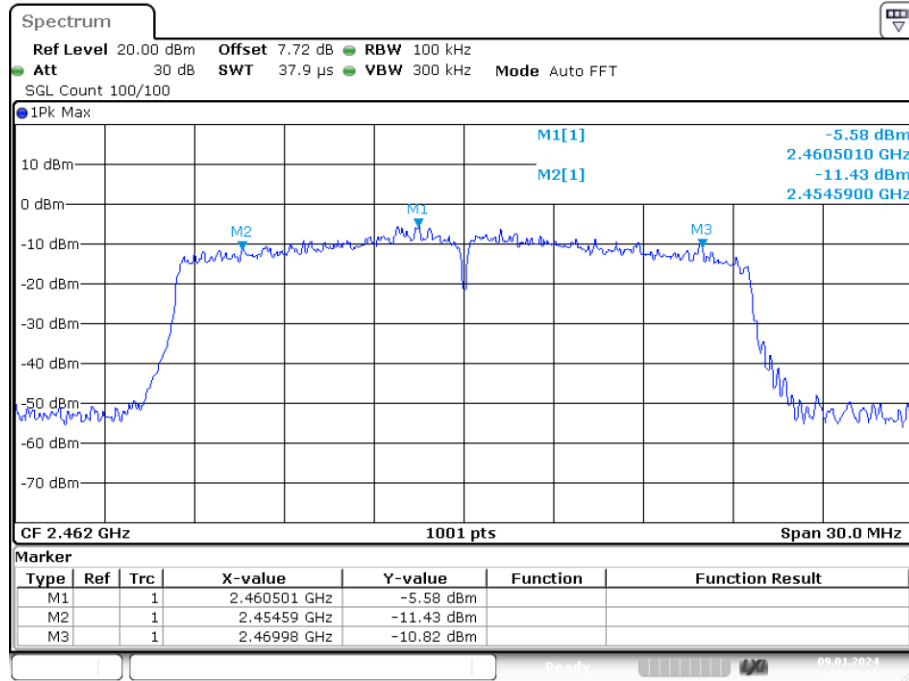
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-6dB Bandwidth NVNT ax20 2437MHz Ant1



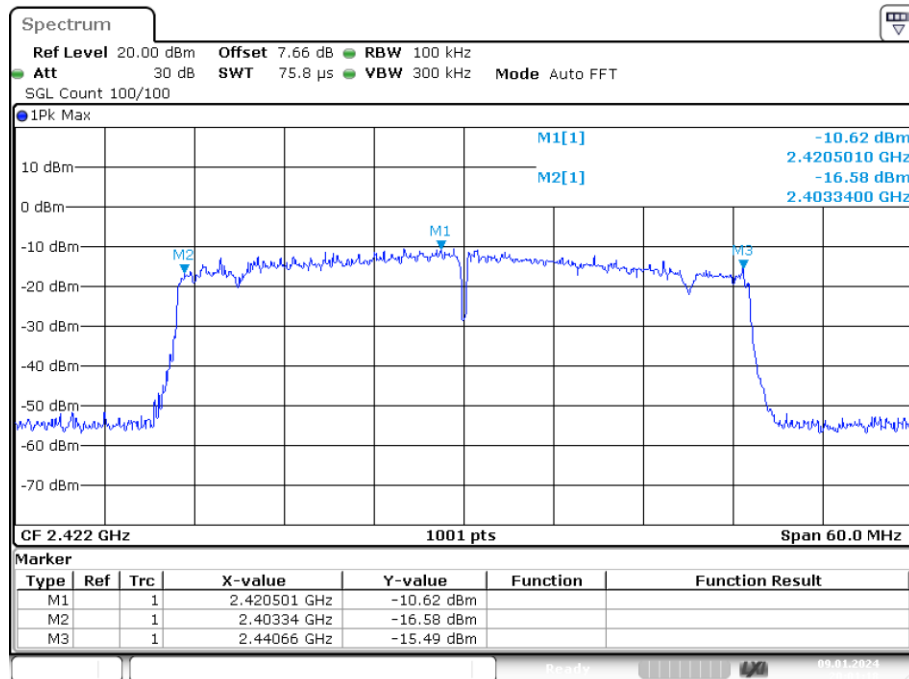
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-6dB Bandwidth NVNT ax20 2462MHz Ant1



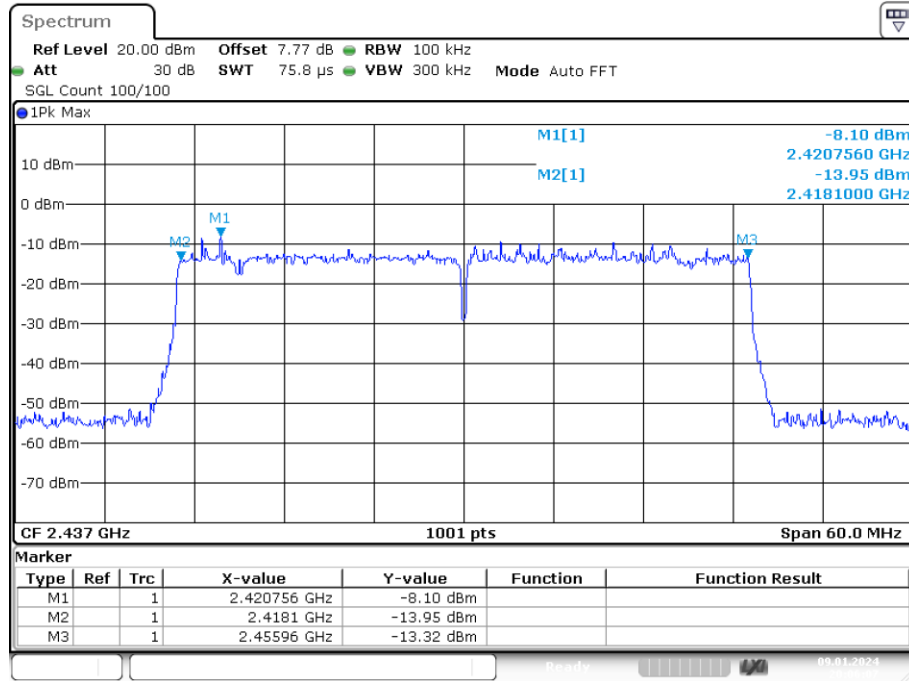
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-6dB Bandwidth NVNT ax40 2422MHz Ant1



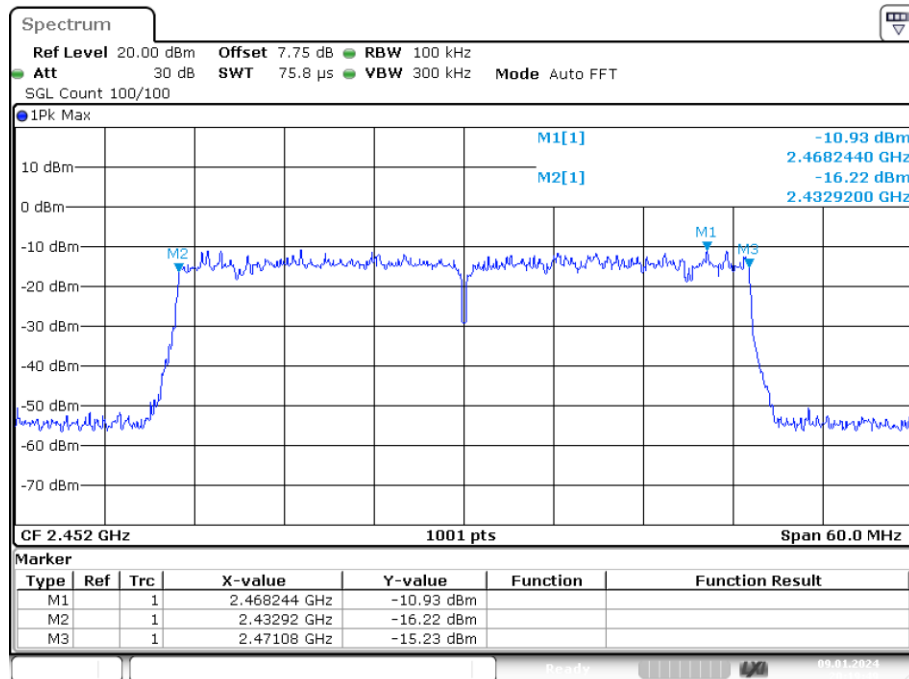
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-6dB Bandwidth NVNT ax40 2437MHz Ant1



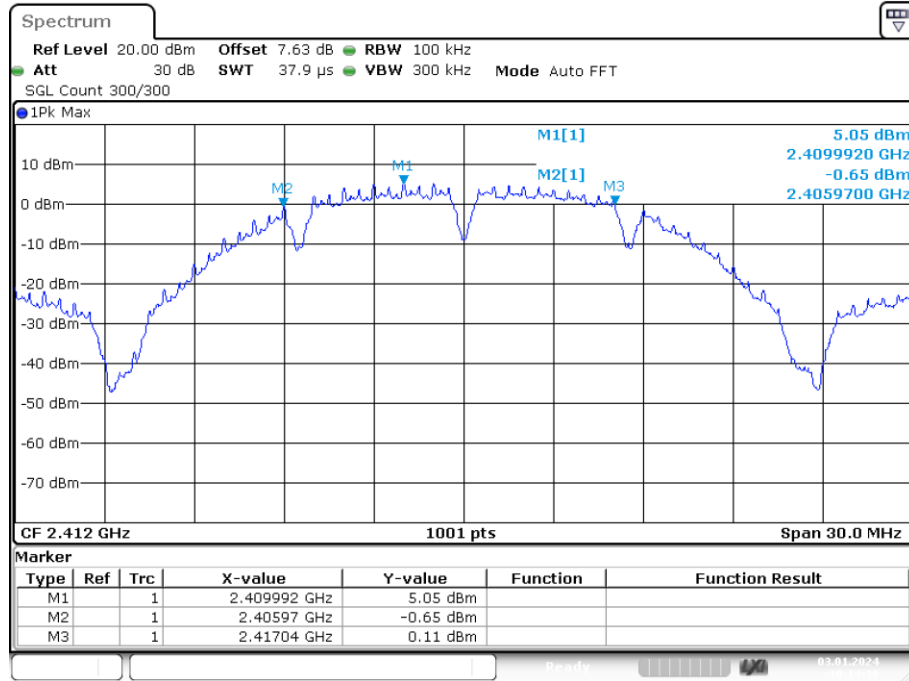
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-6dB Bandwidth NVNT ax40 2452MHz Ant1



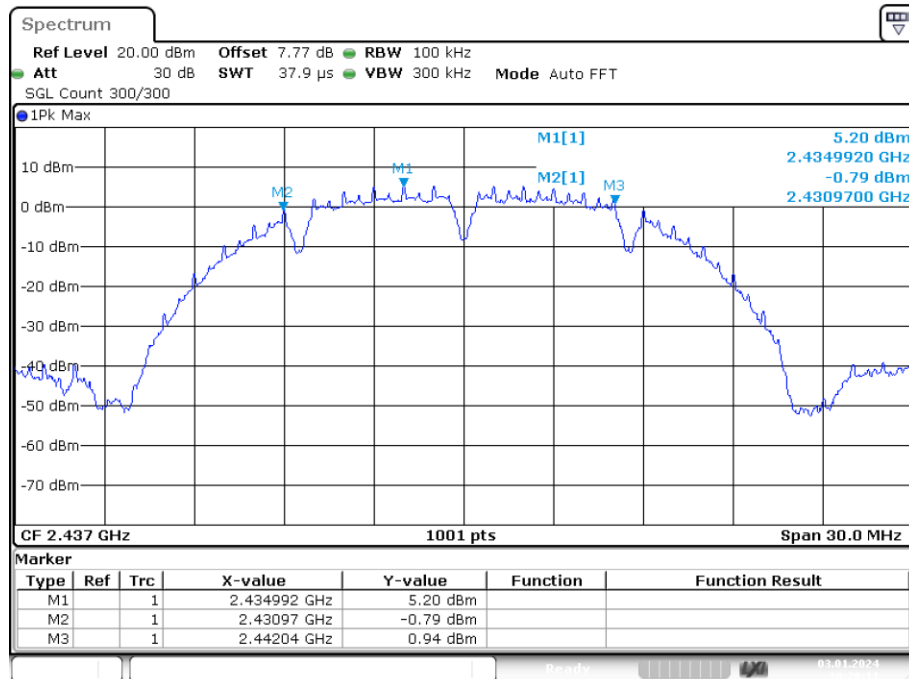
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-6dB Bandwidth NVNT b 2412MHz Ant1



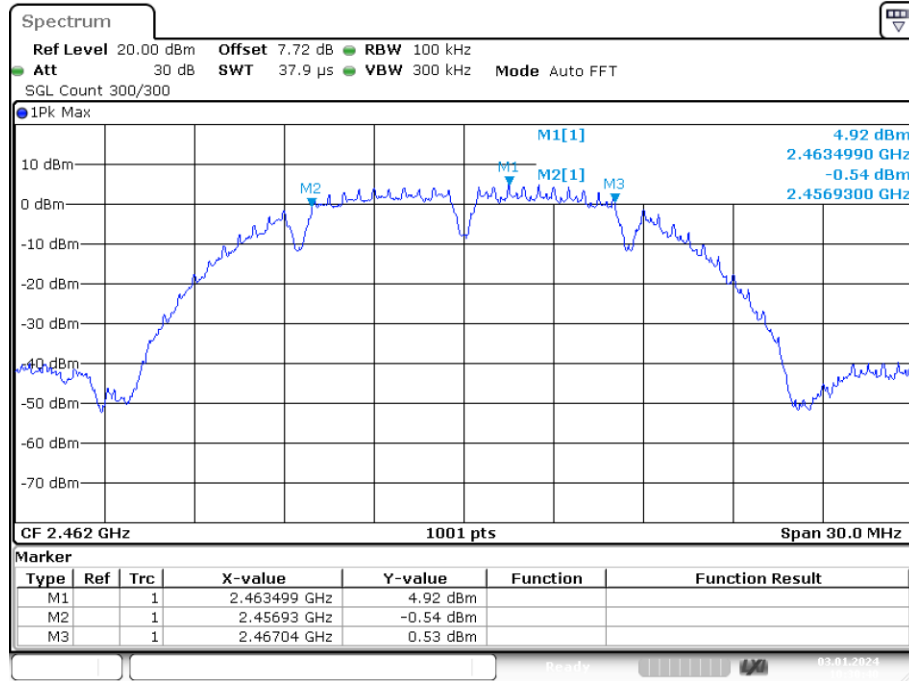
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-6dB Bandwidth NVNT b 2437MHz Ant1



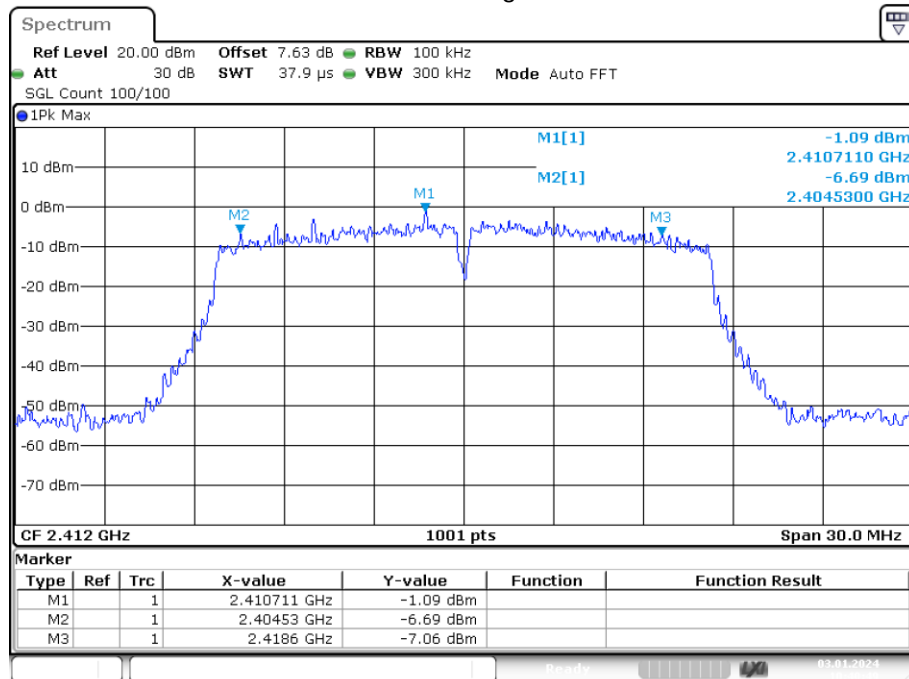
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-6dB Bandwidth NVNT b 2462MHz Ant1



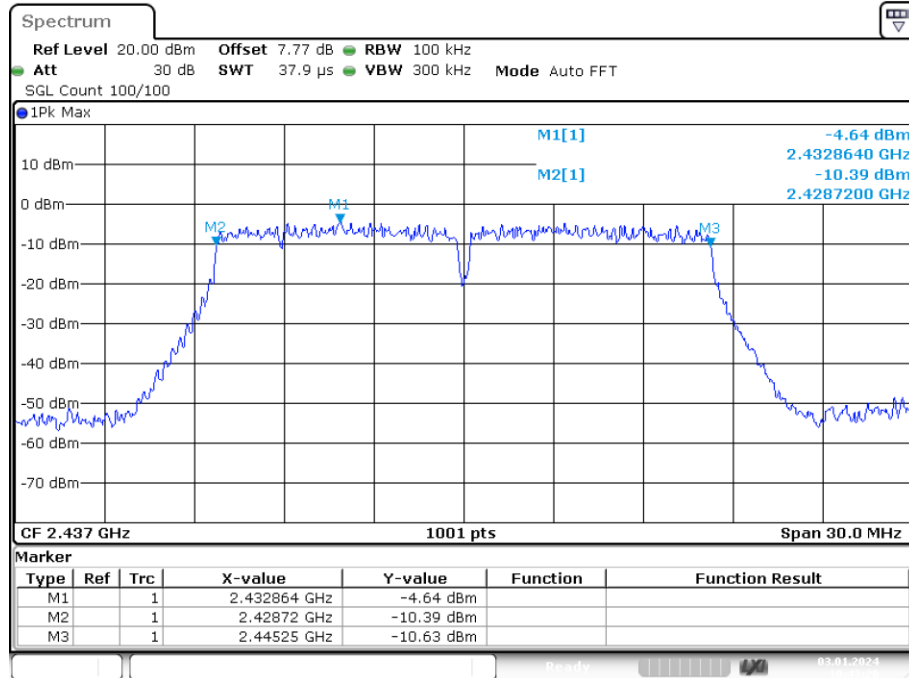
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-6dB Bandwidth NVNT g 2412MHz Ant1



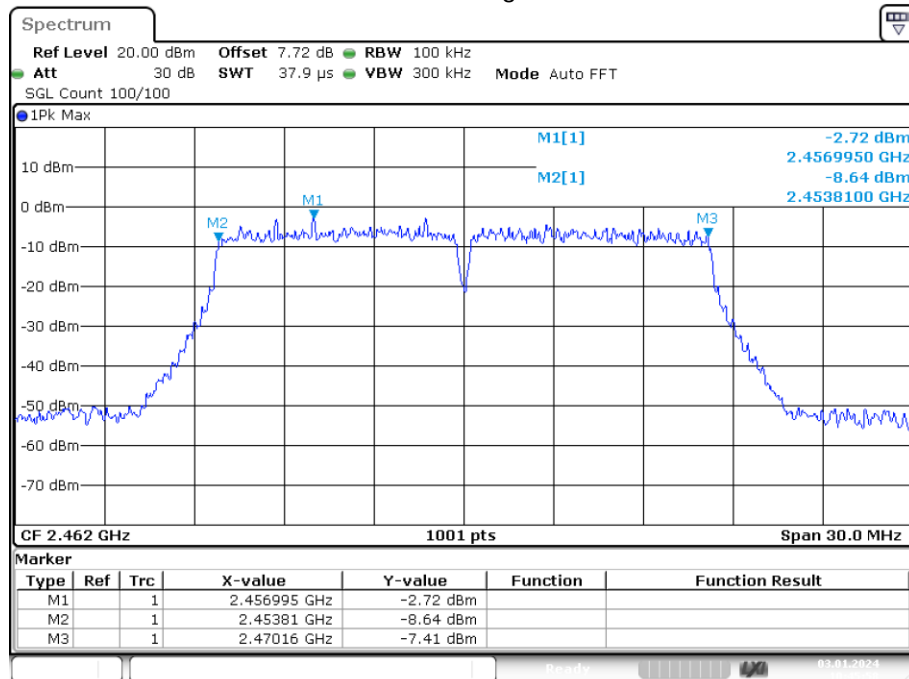
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-6dB Bandwidth NVNT g 2437MHz Ant1



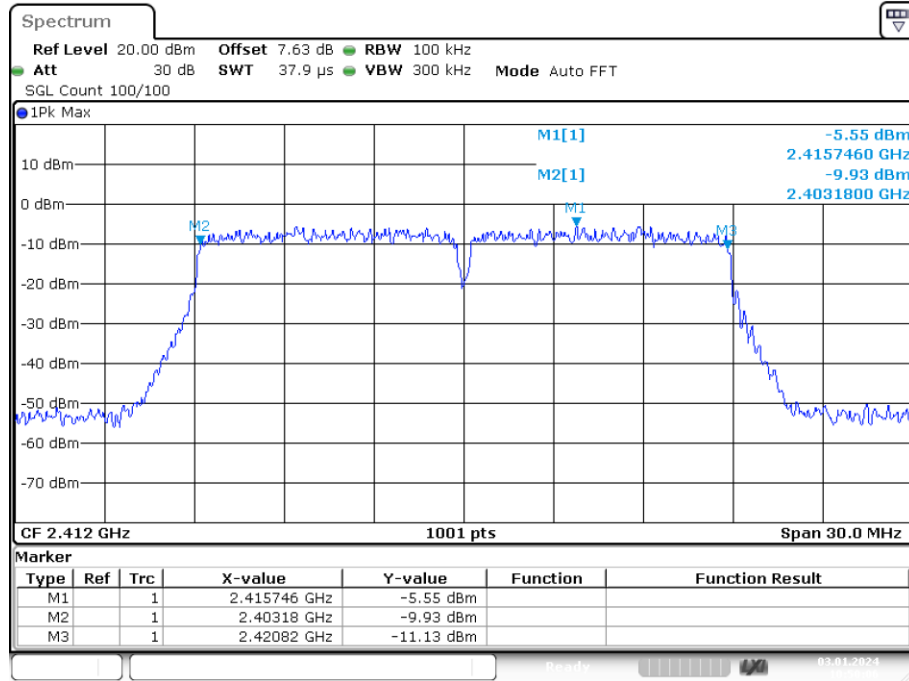
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-6dB Bandwidth NVNT g 2462MHz Ant1



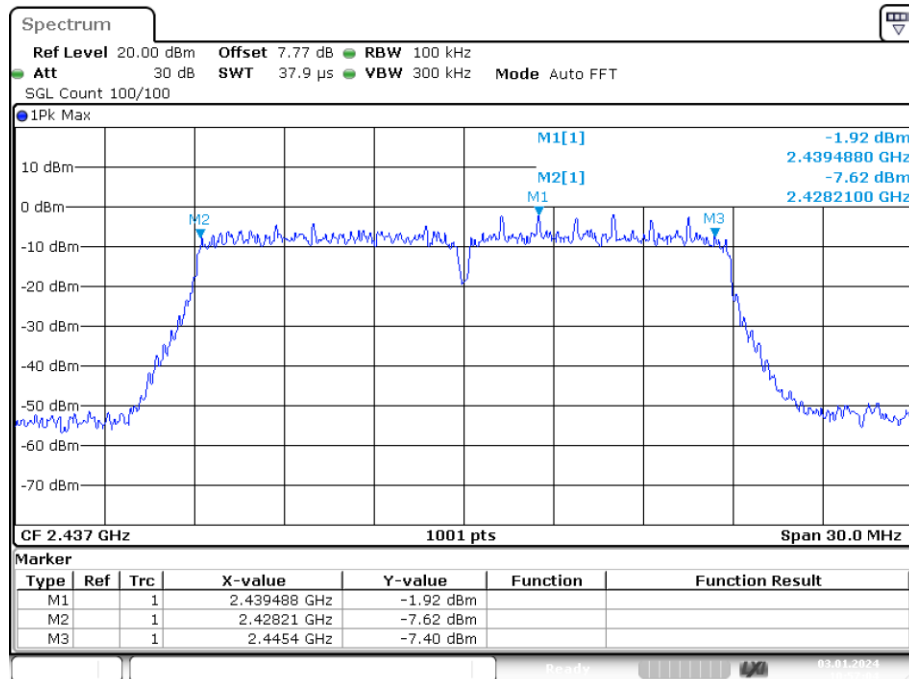
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-6dB Bandwidth NVNT n20 2412MHz Ant1



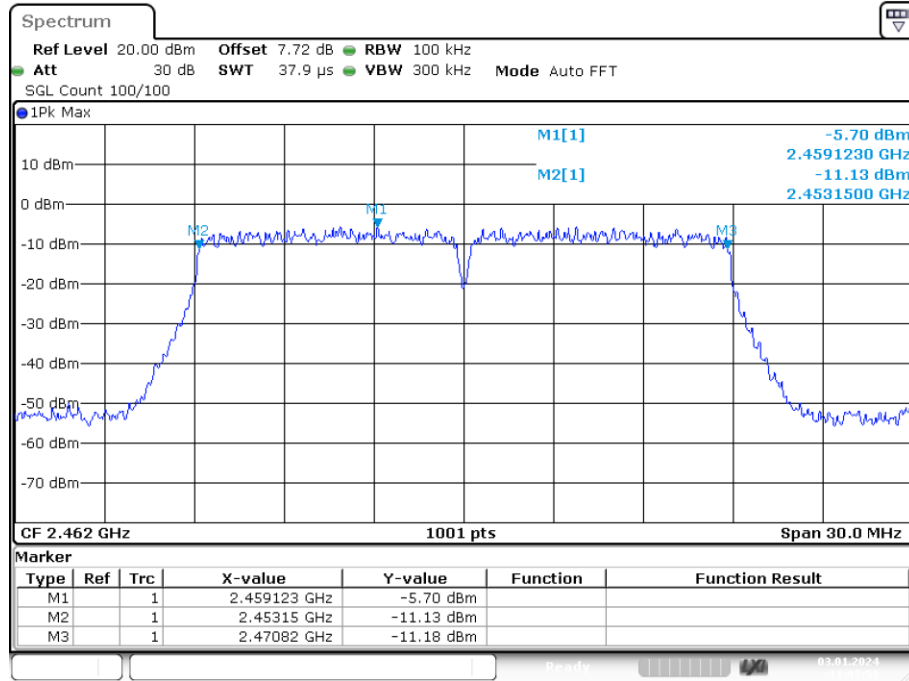
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-6dB Bandwidth NVNT n20 2437MHz Ant1



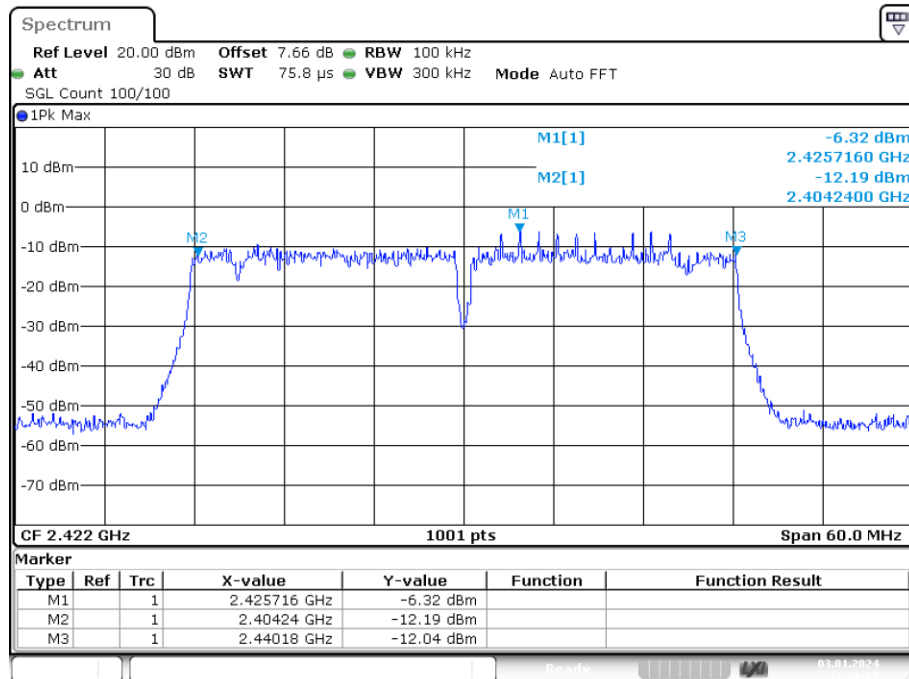
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-6dB Bandwidth NVNT n20 2462MHz Ant1



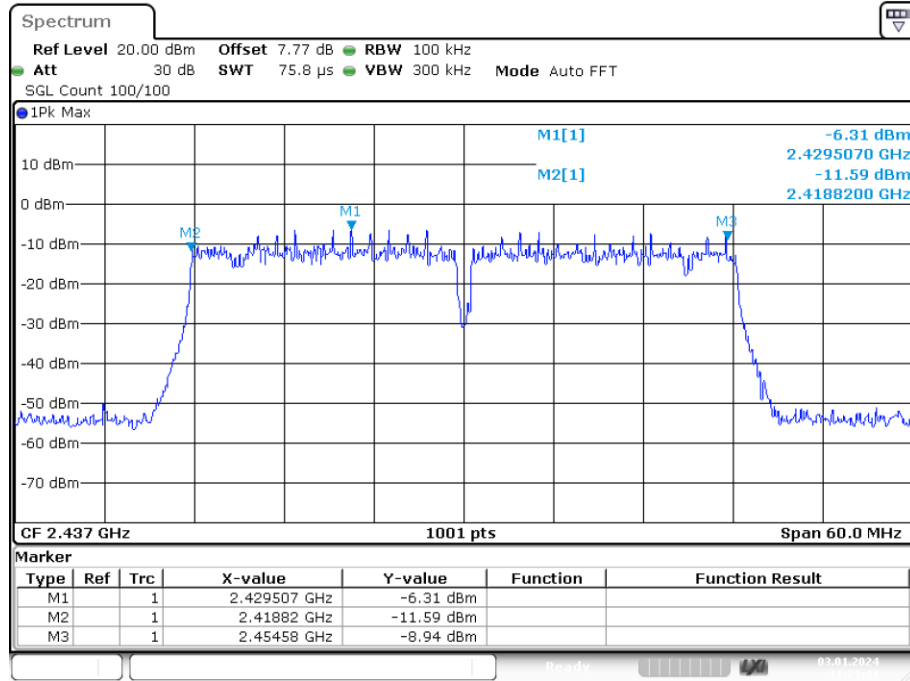
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-6dB Bandwidth NVNT n40 2422MHz Ant1



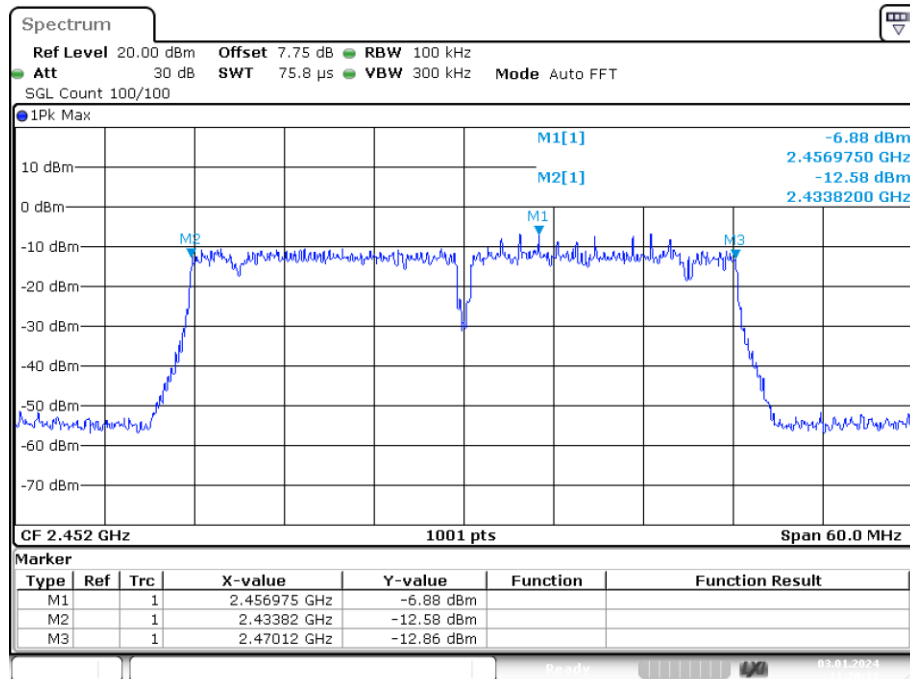
Date: 3.JAN.2024 11:26:26

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 3.JAN.2024 11:23:40

-6dB Bandwidth NVNT n40 2452MHz Ant1



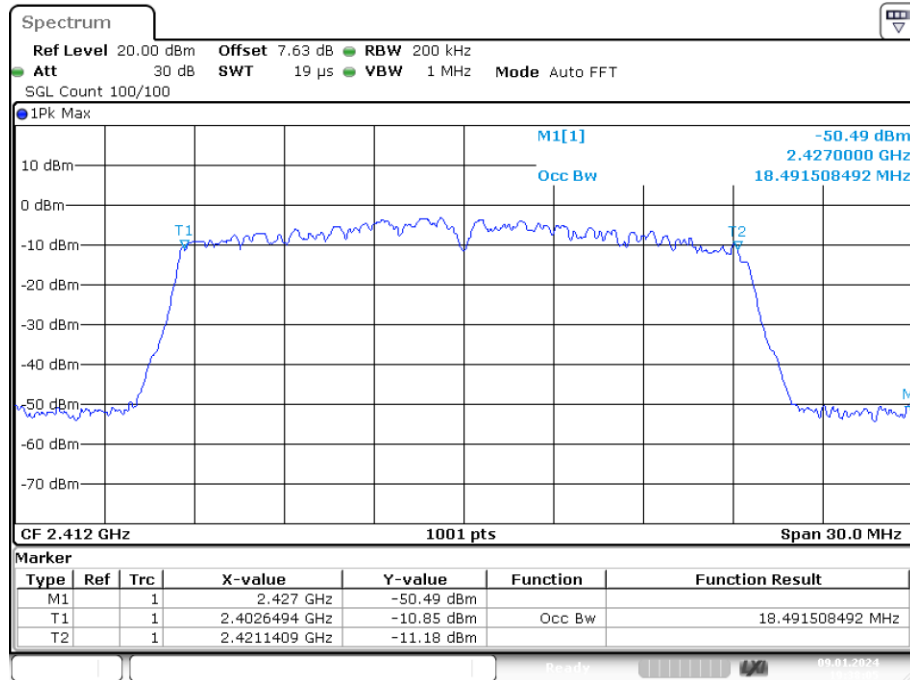
Date: 3.JAN.2024 11:20:13

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	18.492
NVNT	ax20	2437	Ant1	18.851
NVNT	ax20	2462	Ant1	18.521
NVNT	ax40	2422	Ant1	37.403
NVNT	ax40	2437	Ant1	37.822
NVNT	ax40	2452	Ant1	37.762
NVNT	b	2412	Ant1	15.405
NVNT	b	2437	Ant1	14.925
NVNT	b	2462	Ant1	14.955
NVNT	g	2412	Ant1	16.124
NVNT	g	2437	Ant1	16.334
NVNT	g	2462	Ant1	16.364
NVNT	n20	2412	Ant1	17.532
NVNT	n20	2437	Ant1	17.562
NVNT	n20	2462	Ant1	17.592
NVNT	n40	2422	Ant1	36.084
NVNT	n40	2437	Ant1	36.144
NVNT	n40	2452	Ant1	36.204

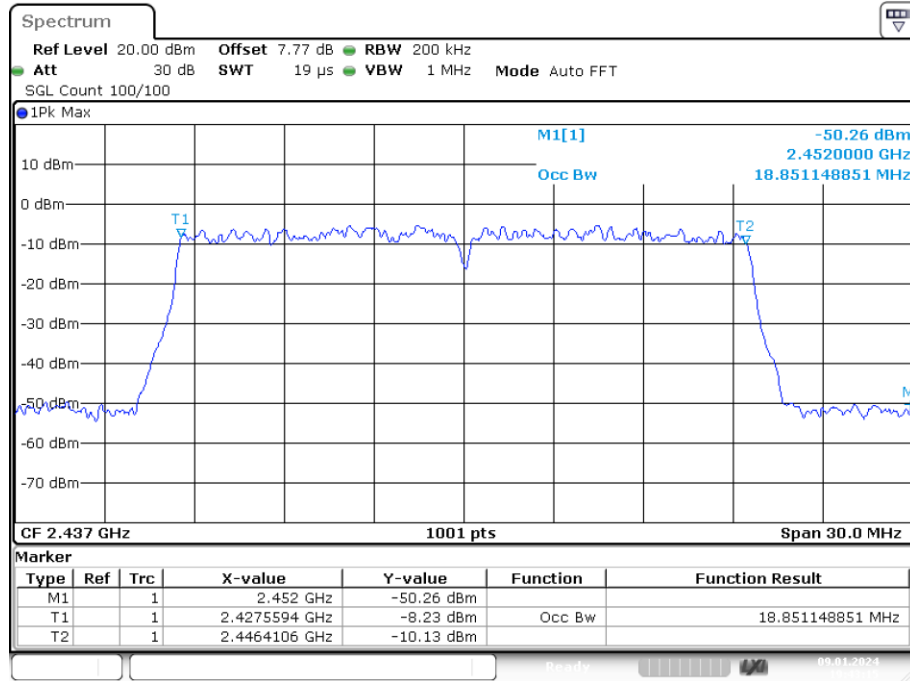
Note: 1.All antennas have been tested, only the worst data of each pattern is reflected.

OBW NVNT ax20 2412MHz Ant1



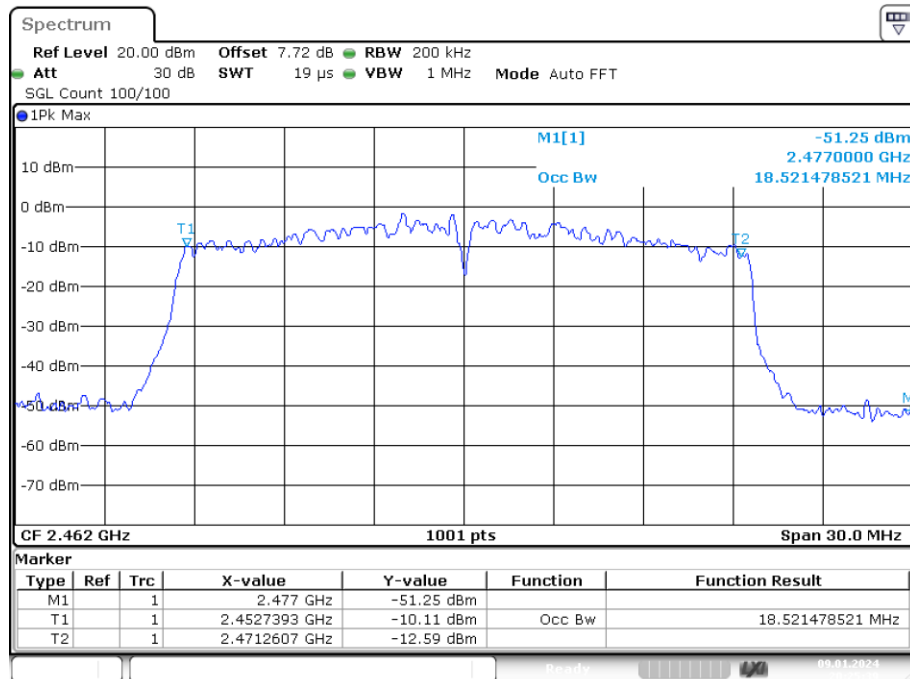
Date: 9.JAN.2024 19:38:04

OBW NVNT ax20 2437MHz Ant1



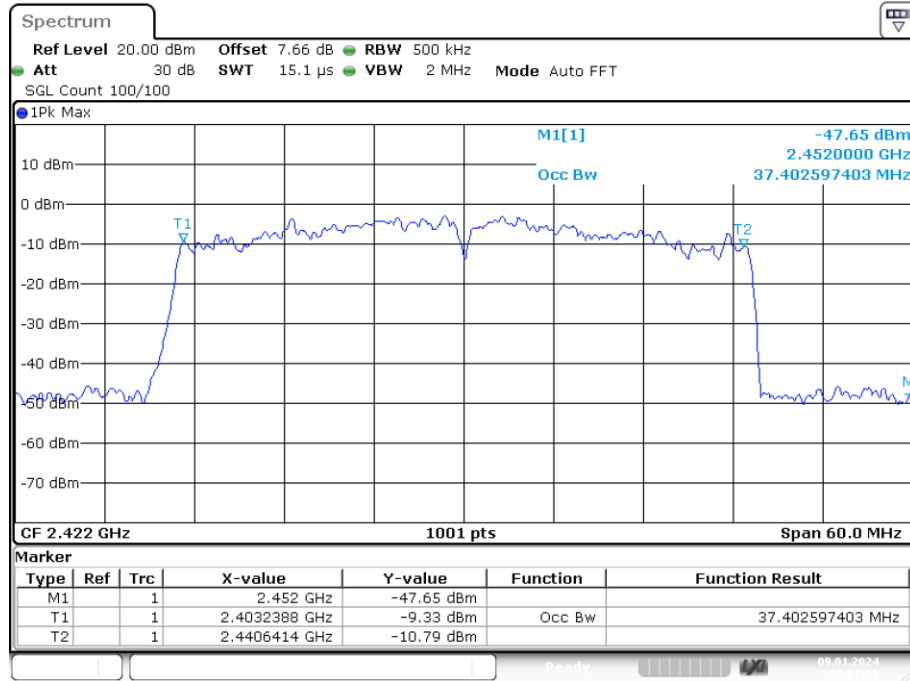
Date: 9.JAN.2024 19:43:14

OBW NVNT ax20 2462MHz Ant1



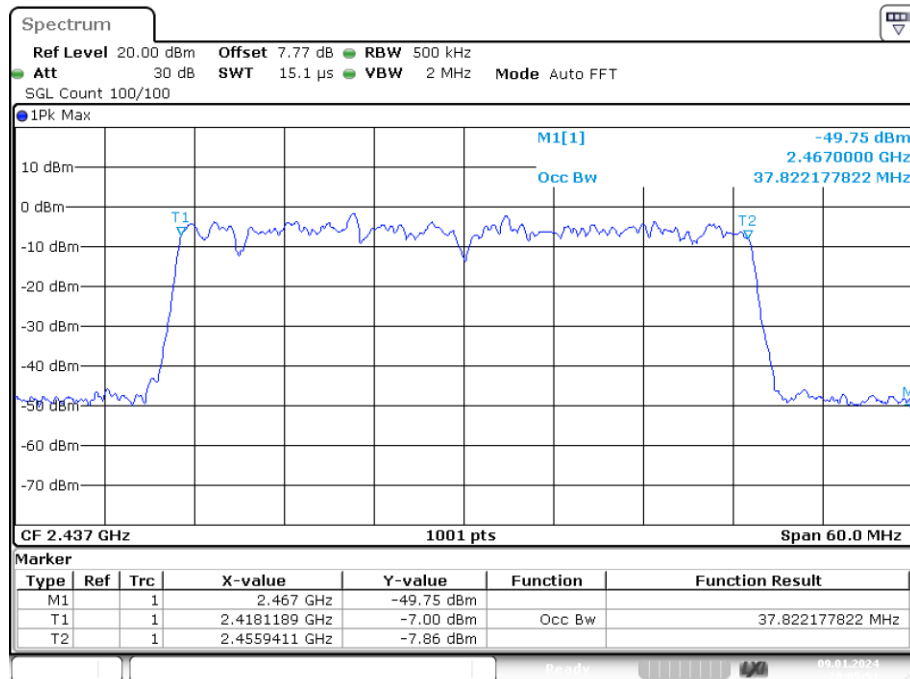
Date: 9.JAN.2024 20:25:39

OBW NVNT ax40 2422MHz Ant1



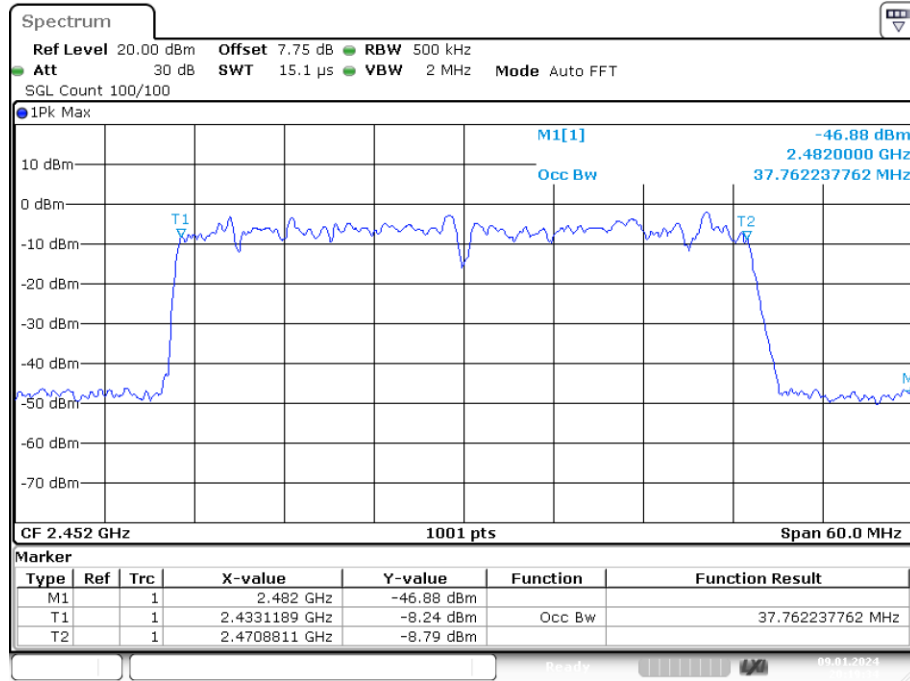
Date: 9.JAN.2024 20:01:04

OBW NVNT ax40 2437MHz Ant1



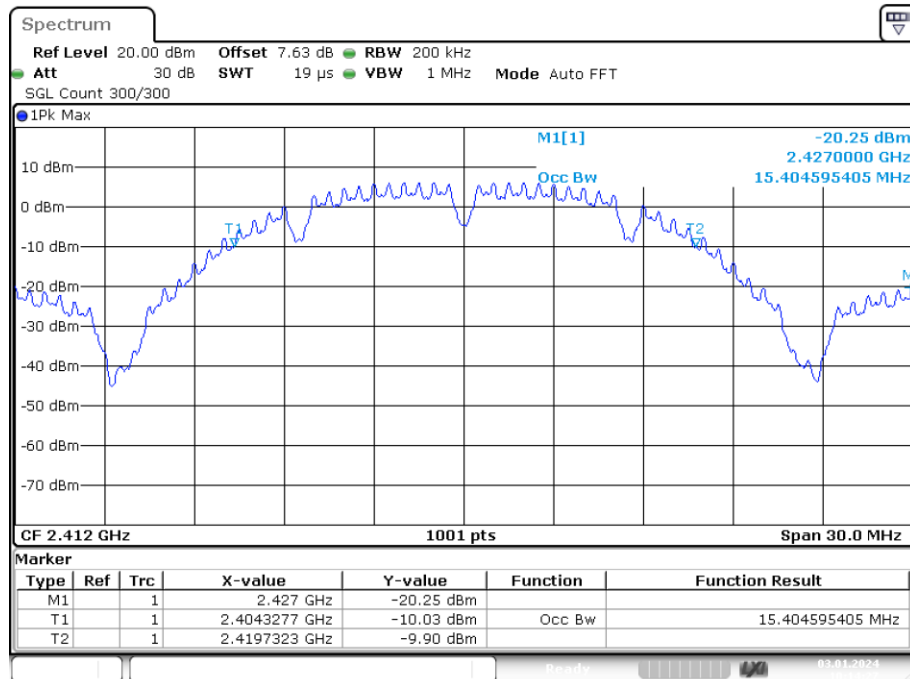
Date: 9.JAN.2024 20:05:52

OBW NVNT ax40 2452MHz Ant1



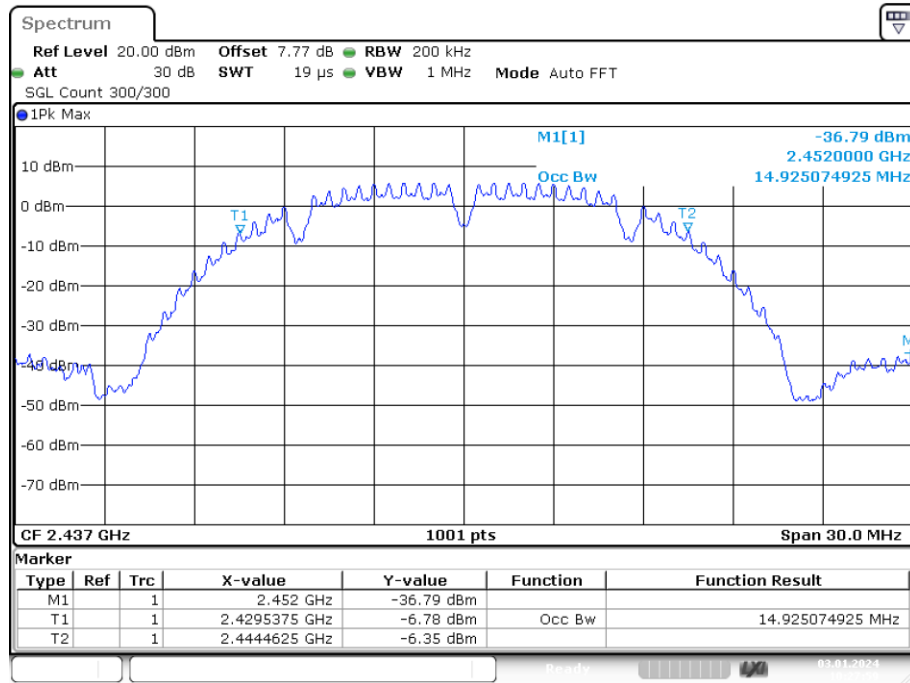
Date: 9.JAN.2024 20:19:33

OBW NVNT b 2412MHz Ant1



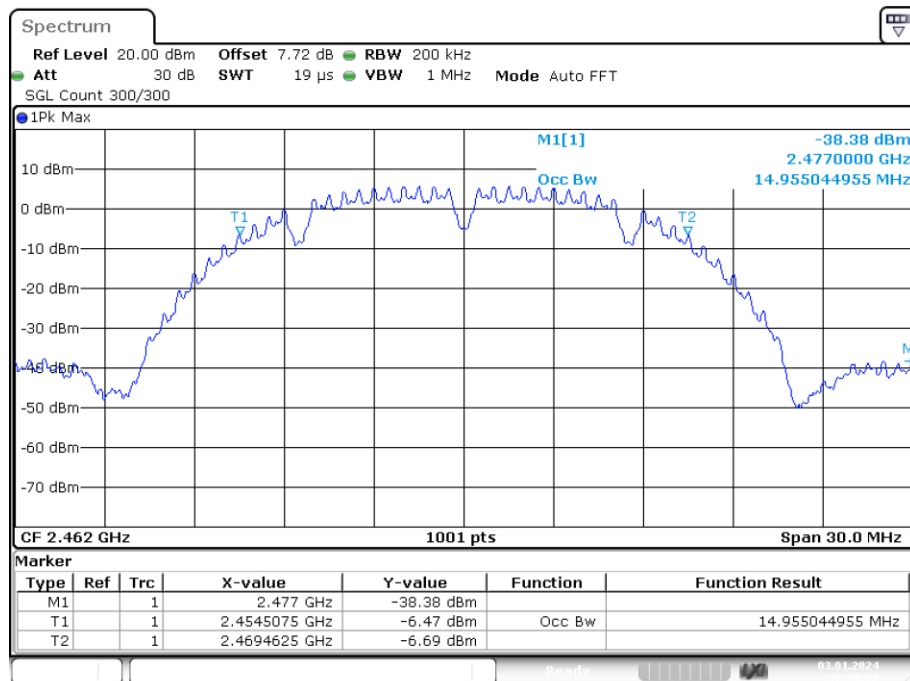
Date: 3.JAN.2024 10:14:26

OBW NVNT b 2437MHz Ant1



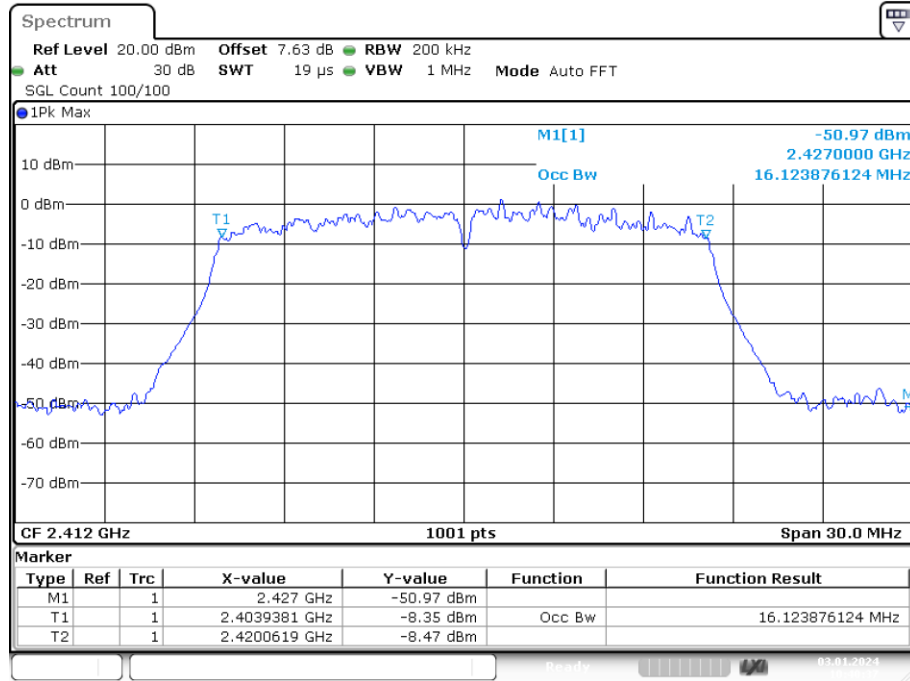
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OBW NVNT b 2462MHz Ant1



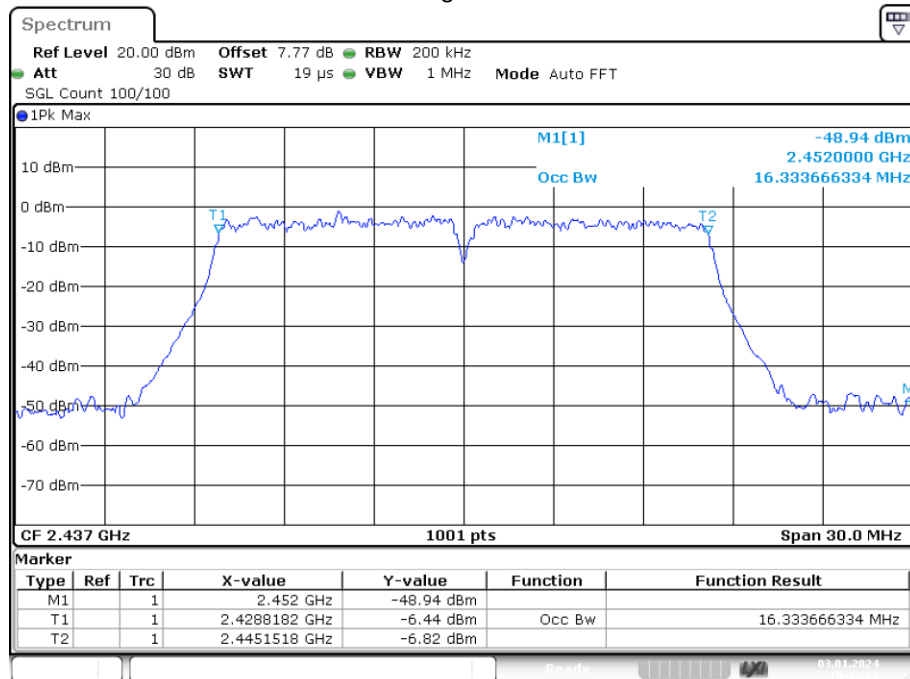
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OBW NVNT g 2412MHz Ant1



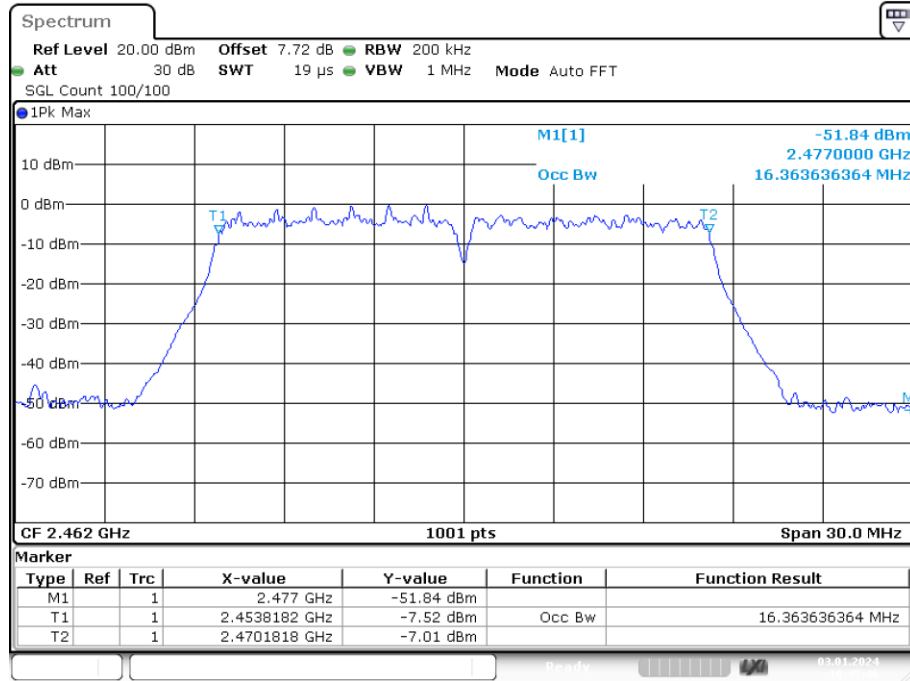
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OBW NVNT g 2437MHz Ant1



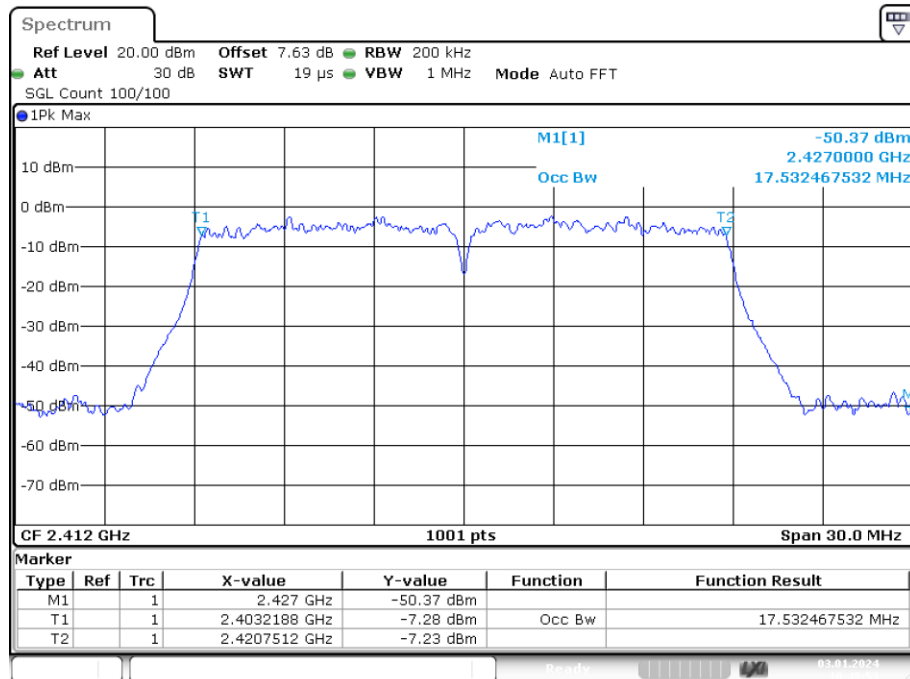
Date: 3.JAN.2024 10:43:08

OBW NVNT g 2462MHz Ant1



Date: 3.JAN.2024 10:45:45

OBW NVNT n20 2412MHz Ant1



Date: 3.JAN.2024 10:49:53