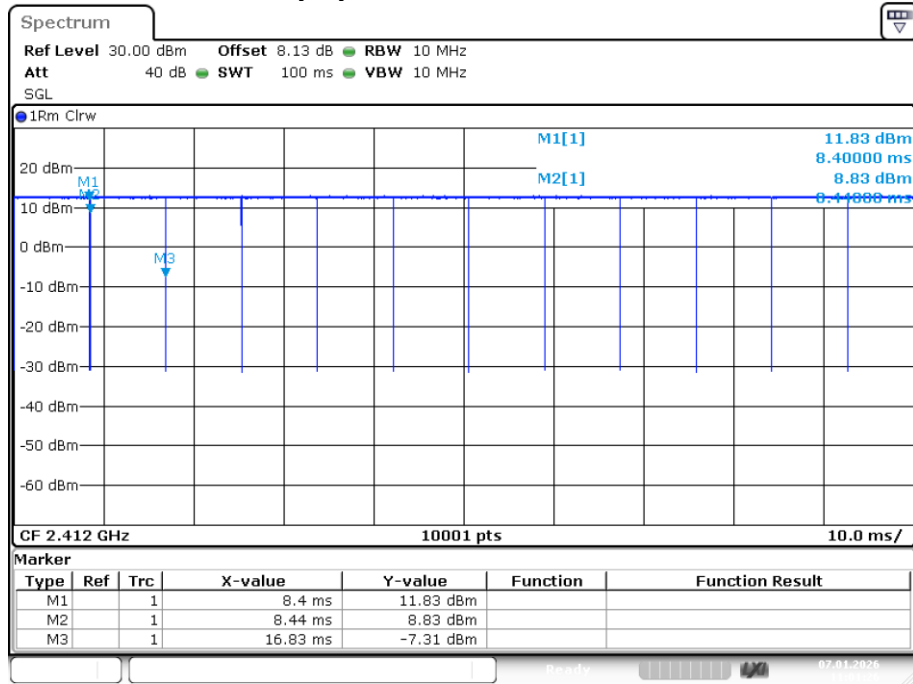
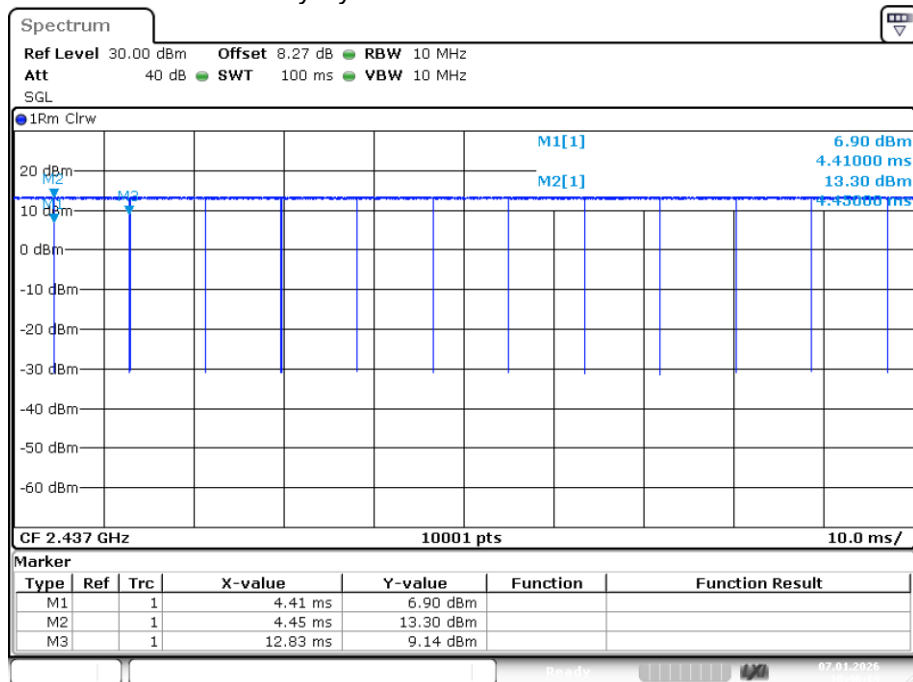


Duty Cycle NVNT b 2412MHz Ant1



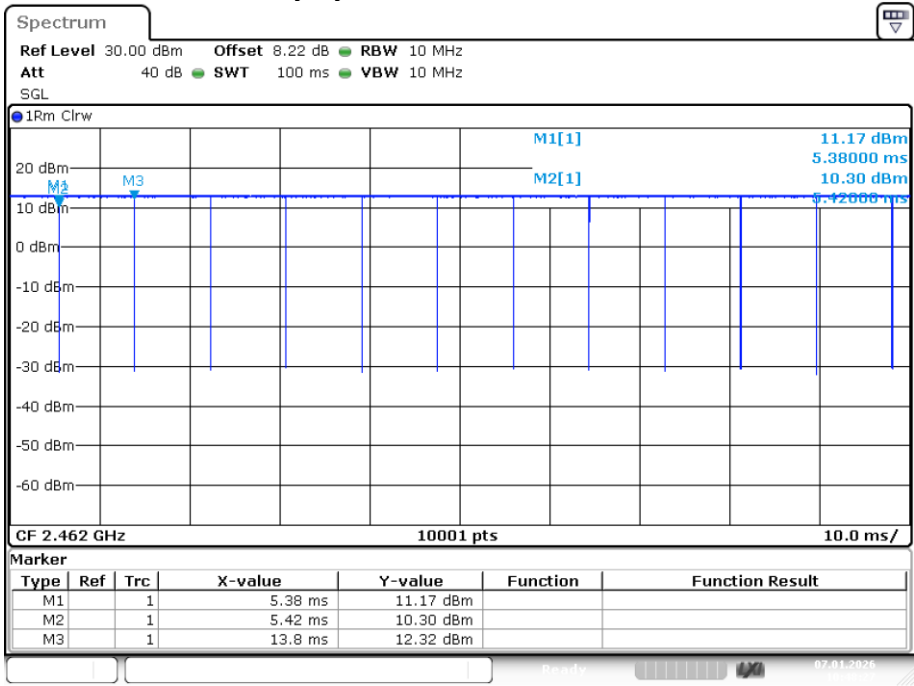
Date: 7.JAN.2026 11:01:26

Duty Cycle NVNT b 2437MHz Ant1



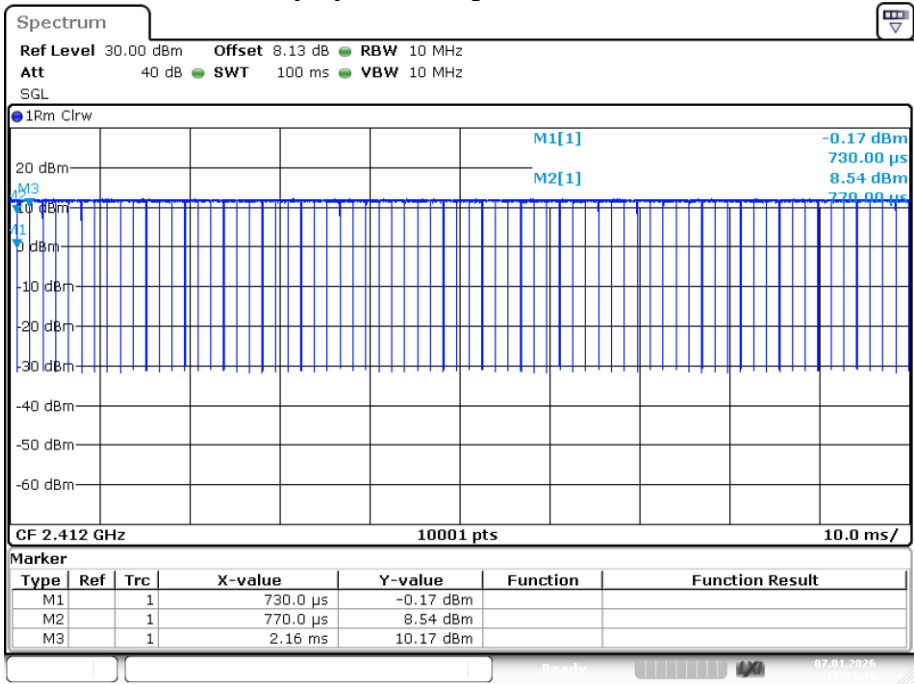
Date: 7.JAN.2026 10:46:13

Duty Cycle NVNT b 2462MHz Ant1



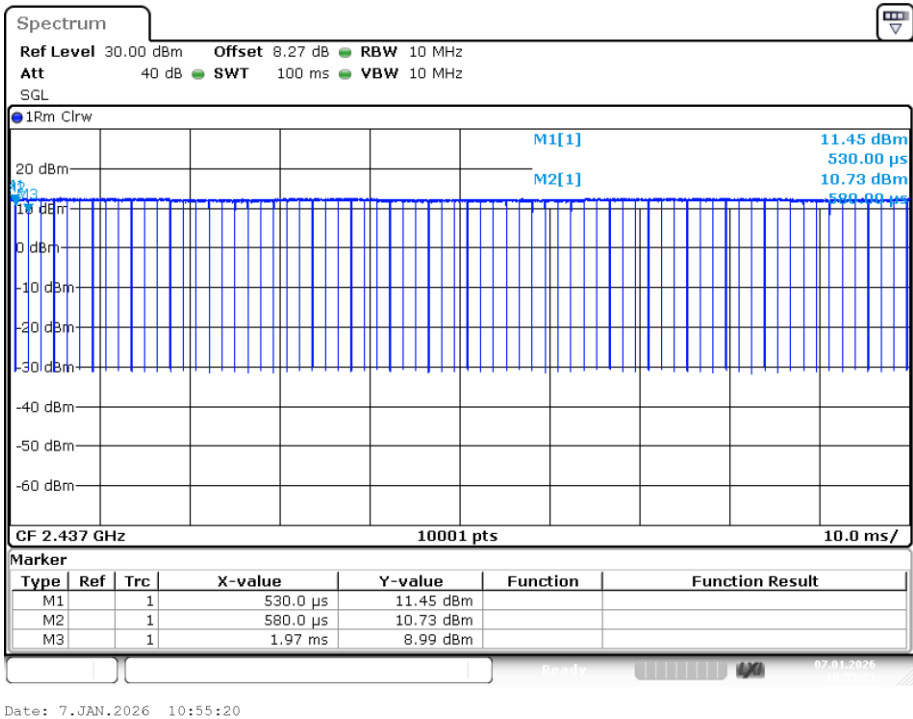
Date: 7.JAN.2026 10:48:26

Duty Cycle NVNT g 2412MHz Ant1

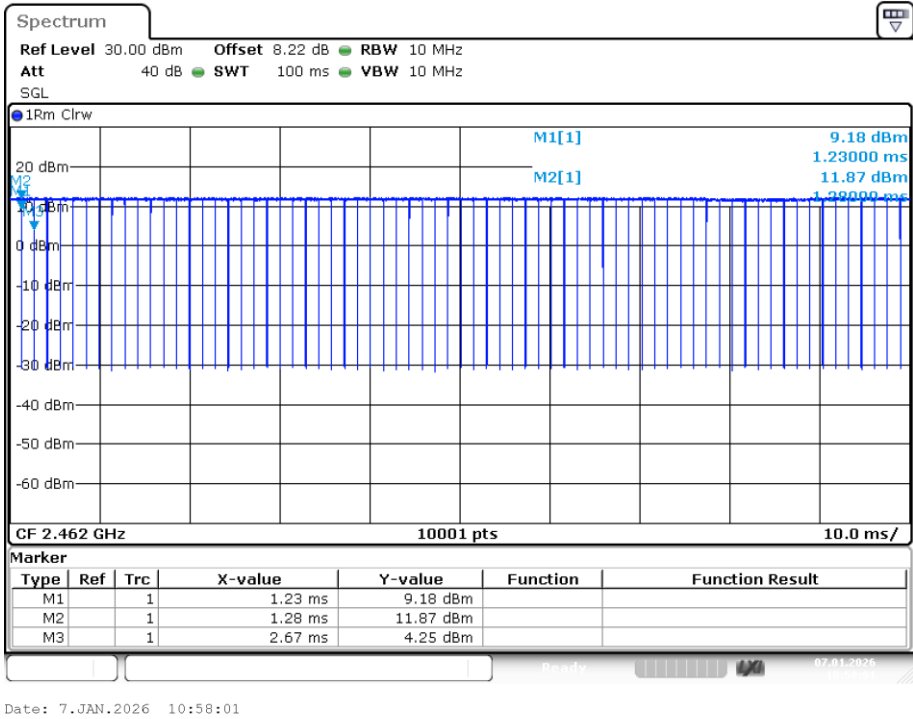


Date: 7.JAN.2026 10:51:49

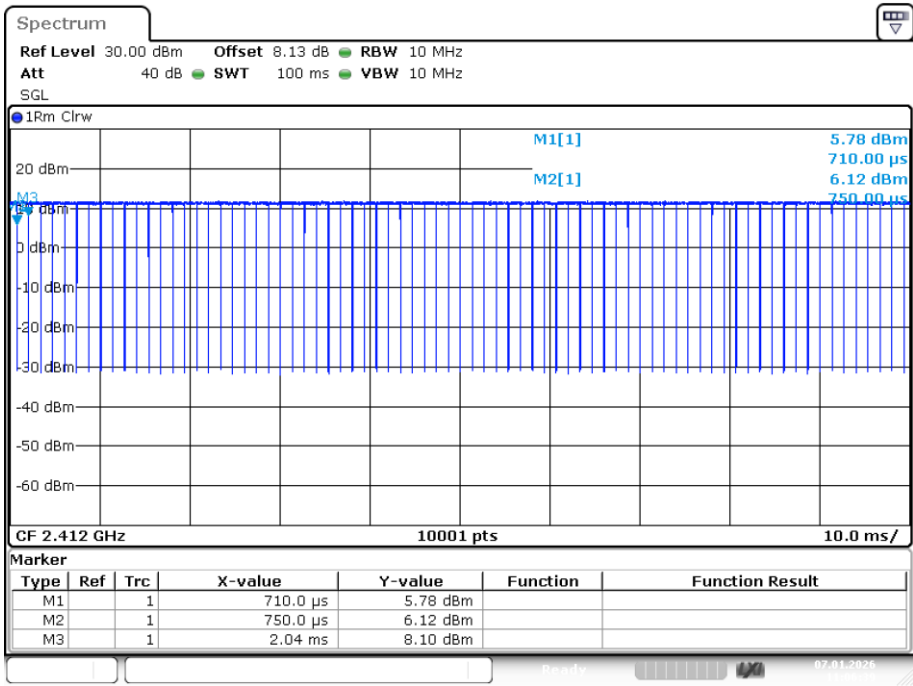
Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

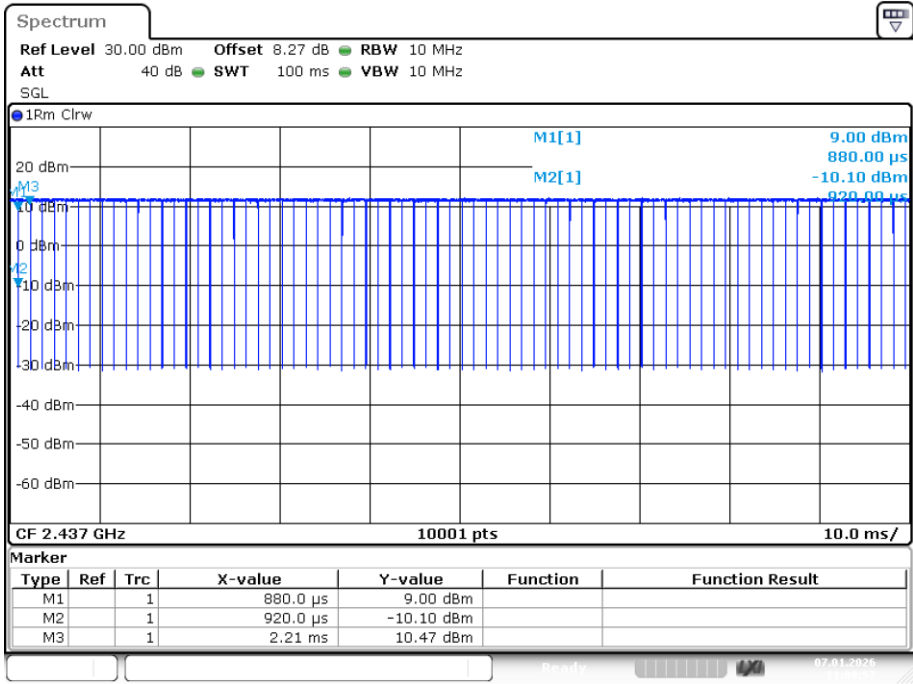


Duty Cycle NVNT n20 2412MHz Ant1



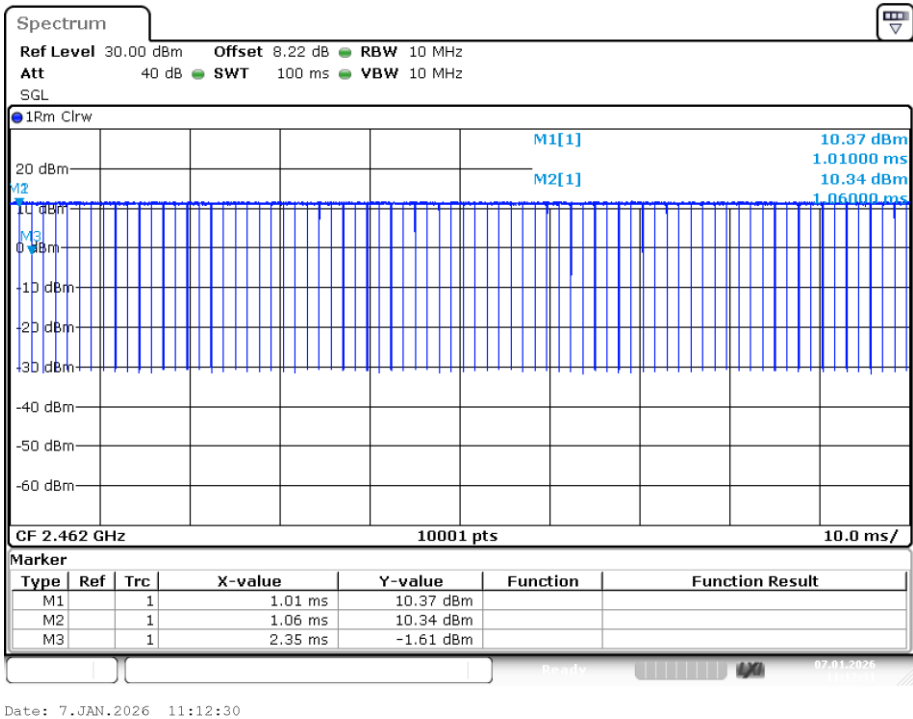
Date: 7.JAN.2026 11:06:39

Duty Cycle NVNT n20 2437MHz Ant1

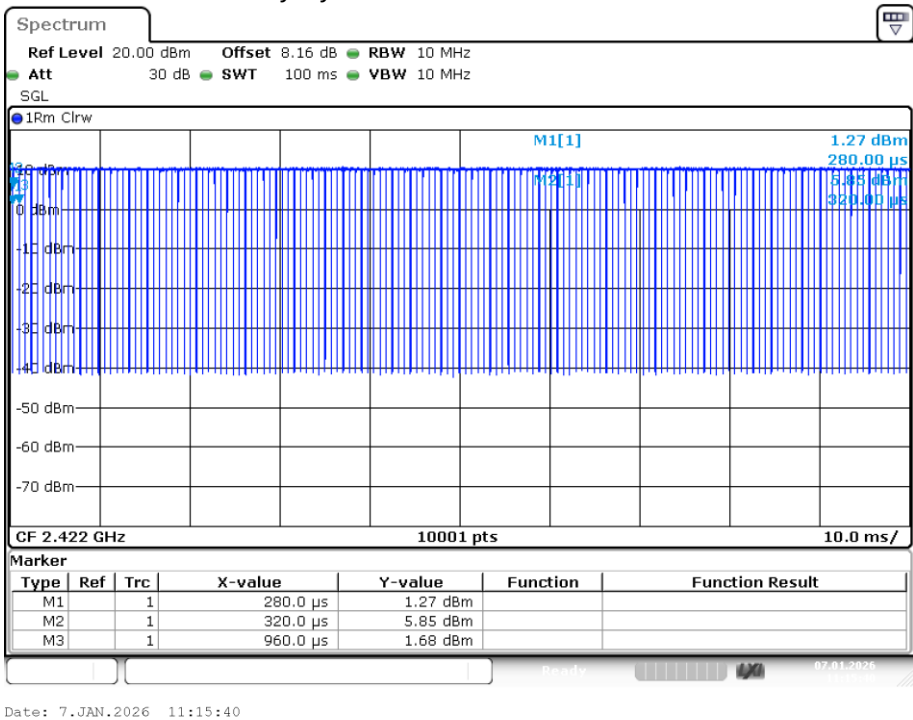


Date: 7.JAN.2026 11:09:57

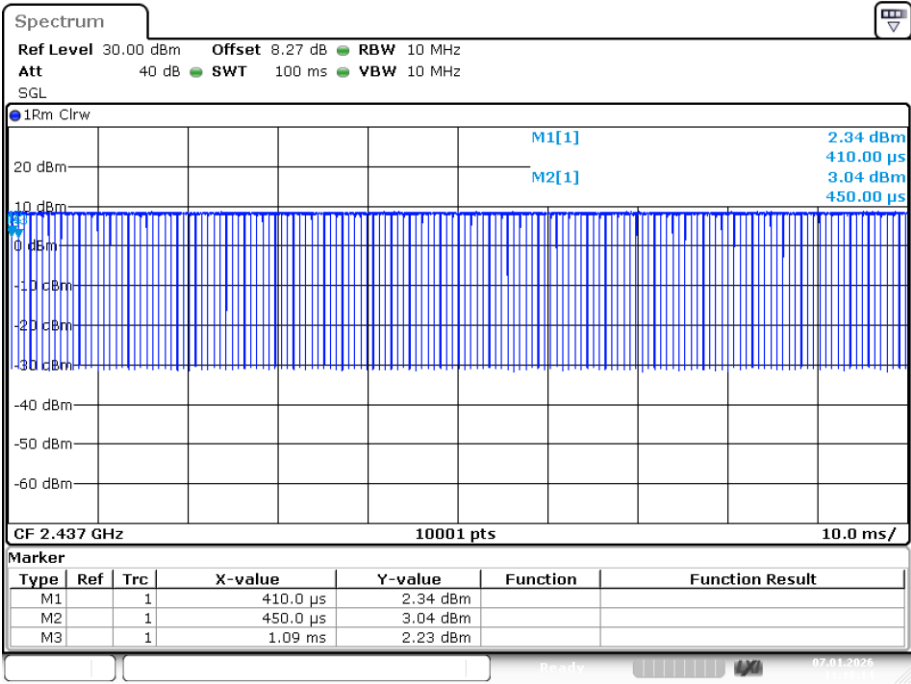
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1

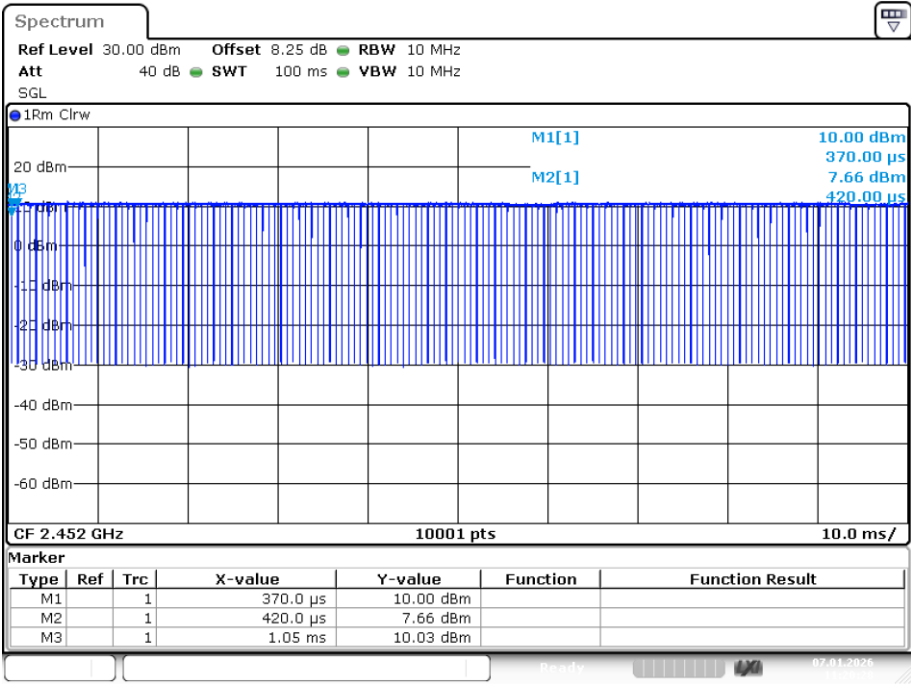


Duty Cycle NVNT n40 2437MHz Ant1



Date: 7.JAN.2026 11:18:14

Duty Cycle NVNT n40 2452MHz Ant1



Date: 7.JAN.2026 11:20:27

7. MAXIMUM AVERAGE CONDUCTED OUTPUT POWER

7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247.

Please refer RSS-247 & FCC PART 15: 15.247.

Regulation 15.247(b) The limit of Maximum Peak conducted output power Measurement is 1W(30dBm). The eirp. shall not exceed 4 W(36dBm).

7.2. Test Procedure

Details see the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

7.2.1 Measure the duty cycle D of the transmitter output signal.

7.2.2 Set span to >1.5 times the OBW.

7.2.3 Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.

7.2.4 Set VBW $\geq [3 * \text{RBW}]$.

7.2.5 Number of points in sweep $\geq [2 * \text{span} / \text{RBW}]$.

7.2.6 Sweep time = auto.

7.2.7 Detector = power averaging (rms).

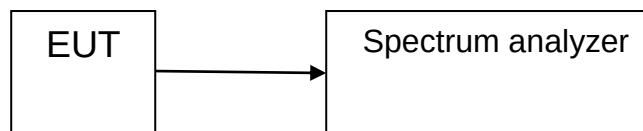
7.2.8 If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

7.2.9 Trace average at least 100 traces in power averaging (rms) mode.

7.2.10 Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

7.2.11 Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

7.3. Test Setup



7.4. Test Results

PASS

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant1	13.141	30	Pass
NVNT	ax20	2437	Ant1	13.148	30	Pass
NVNT	ax20	2462	Ant1	13.019	30	Pass
NVNT	ax40	2422	Ant1	13.659	30	Pass
NVNT	ax40	2437	Ant1	13.357	30	Pass
NVNT	ax40	2452	Ant1	13.442	30	Pass
NVNT	b	2412	Ant1	13.406	30	Pass
NVNT	b	2437	Ant1	13.934	30	Pass
NVNT	b	2462	Ant1	13.677	30	Pass
NVNT	g	2412	Ant1	13.429	30	Pass
NVNT	g	2437	Ant1	13.994	30	Pass
NVNT	g	2462	Ant1	13.715	30	Pass
NVNT	n20	2412	Ant1	13.307	30	Pass
NVNT	n20	2437	Ant1	13.623	30	Pass
NVNT	n20	2462	Ant1	13.348	30	Pass
NVNT	n40	2422	Ant1	13.724	30	Pass
NVNT	n40	2437	Ant1	13.471	30	Pass
NVNT	n40	2452	Ant1	13.853	30	Pass

8. POWER SPECTRAL DENSITY

8.1. Test limits

8.1.1 Please refer FCC PART 15: 15.247.

8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Place the EUT on the table and set it in transmitting mode.

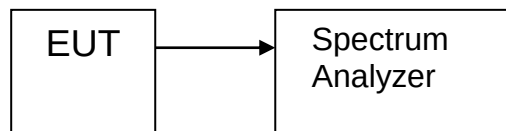
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$), VBW = 10kHz(Set the VBW $\geq 3 \times \text{RBW}$), span $\geq 1.5 \times \text{DTS bandwidth}$, Detector = Avg, detail see the test plot.

8.2.4 Record the max reading.

8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

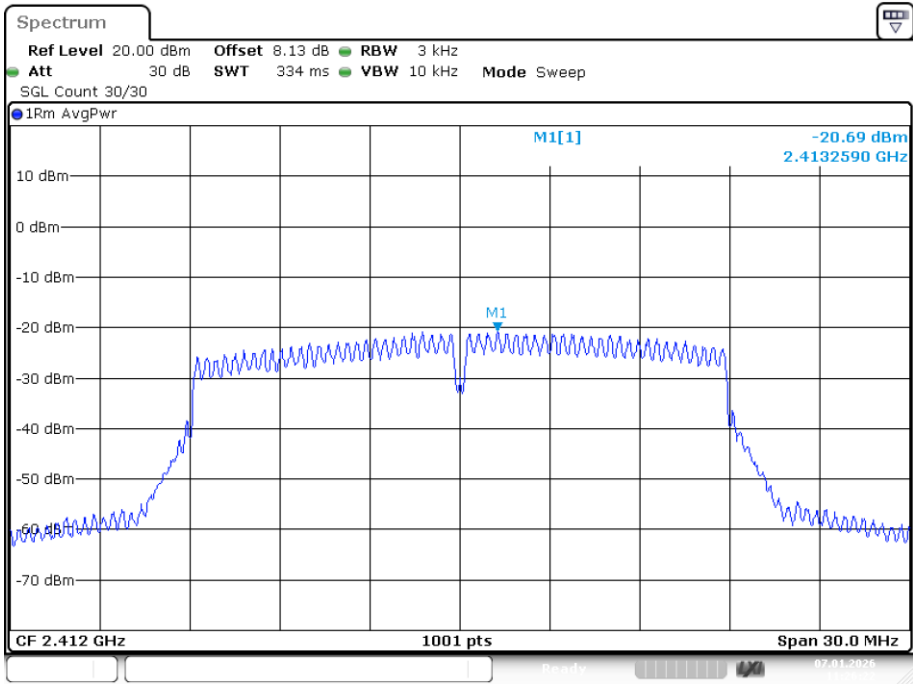
8.3. Test Setup



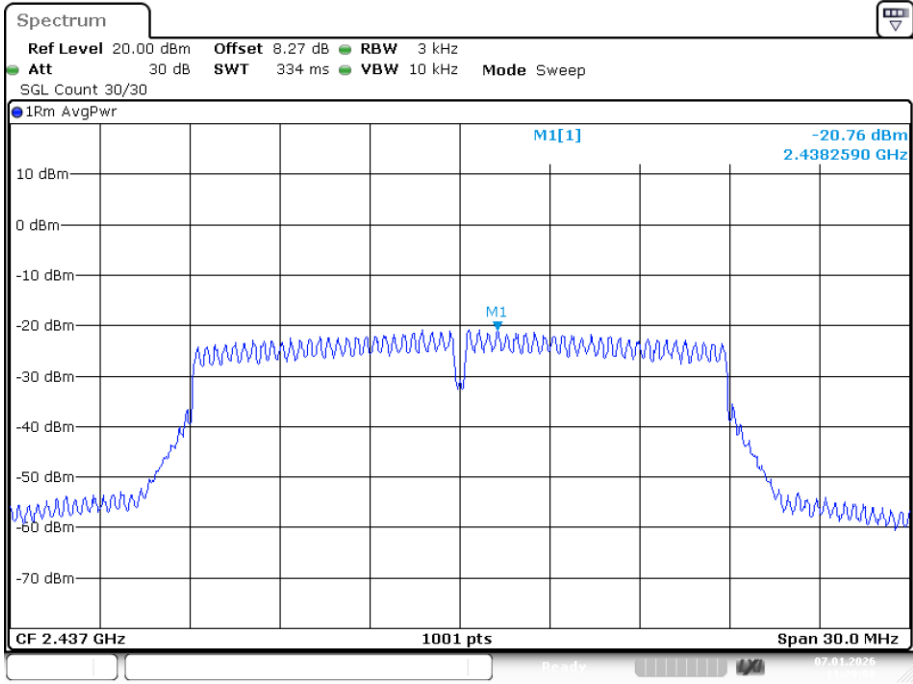
8.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conduct PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	ax20	2412	Ant1	-20.692	8	Pass
NVNT	ax20	2437	Ant1	-20.765	8	Pass
NVNT	ax20	2462	Ant1	-20.321	8	Pass
NVNT	ax40	2422	Ant1	-21.626	8	Pass
NVNT	ax40	2437	Ant1	-23.901	8	Pass
NVNT	ax40	2452	Ant1	-22.769	8	Pass
NVNT	b	2412	Ant1	-18.633	8	Pass
NVNT	b	2437	Ant1	-17.902	8	Pass
NVNT	b	2462	Ant1	-17.796	8	Pass
NVNT	g	2412	Ant1	-20.55	8	Pass
NVNT	g	2437	Ant1	-20.071	8	Pass
NVNT	g	2462	Ant1	-20.4	8	Pass
NVNT	n20	2412	Ant1	-20.463	8	Pass
NVNT	n20	2437	Ant1	-20.582	8	Pass
NVNT	n20	2462	Ant1	-20.951	8	Pass
NVNT	n40	2422	Ant1	-22.325	8	Pass
NVNT	n40	2437	Ant1	-24.28	8	Pass
NVNT	n40	2452	Ant1	-21.924	8	Pass

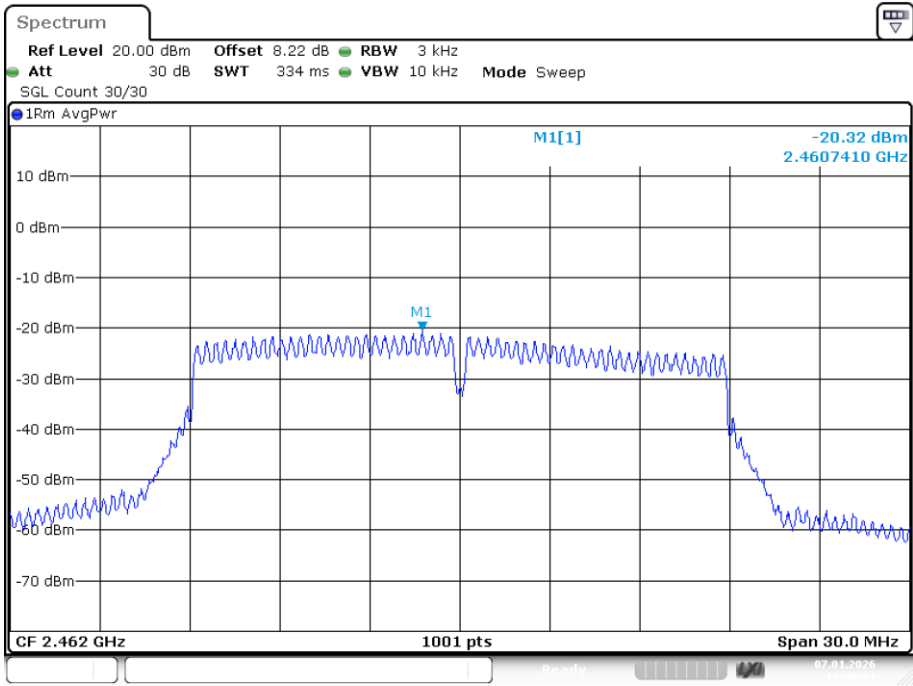
PSD NVNT ax20 2412MHz Ant1



PSD NVNT ax20 2437MHz Ant1

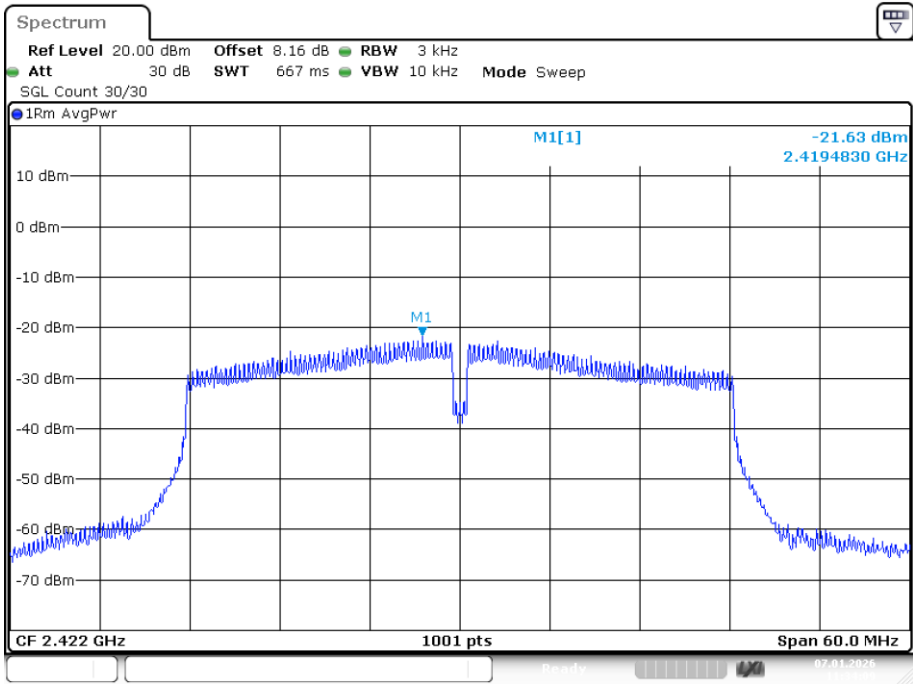


PSD NVNT ax20 2462MHz Ant1



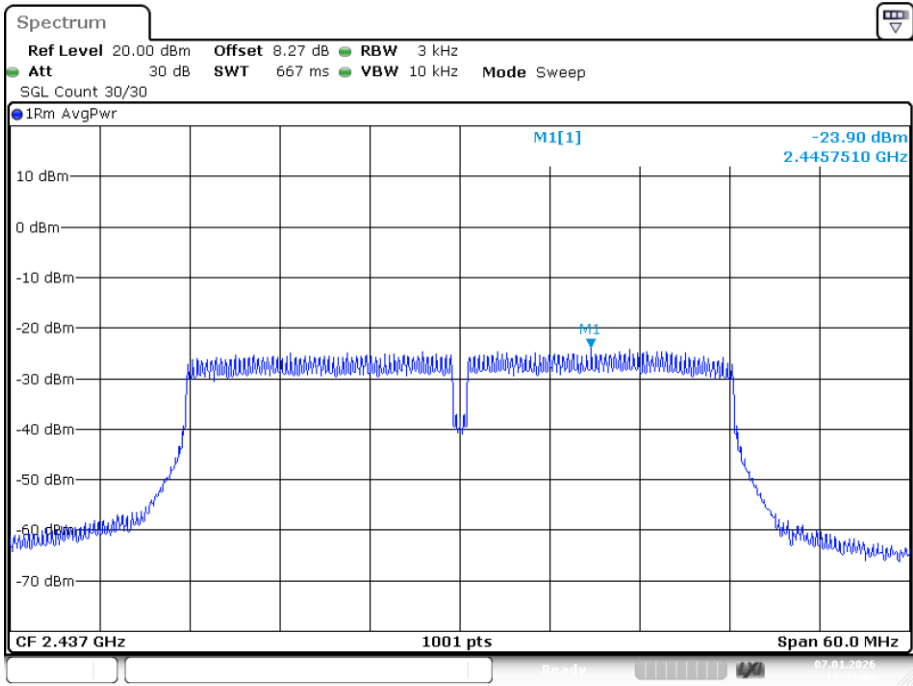
Date: 7.JAN.2026 11:30:51

PSD NVNT ax40 2422MHz Ant1



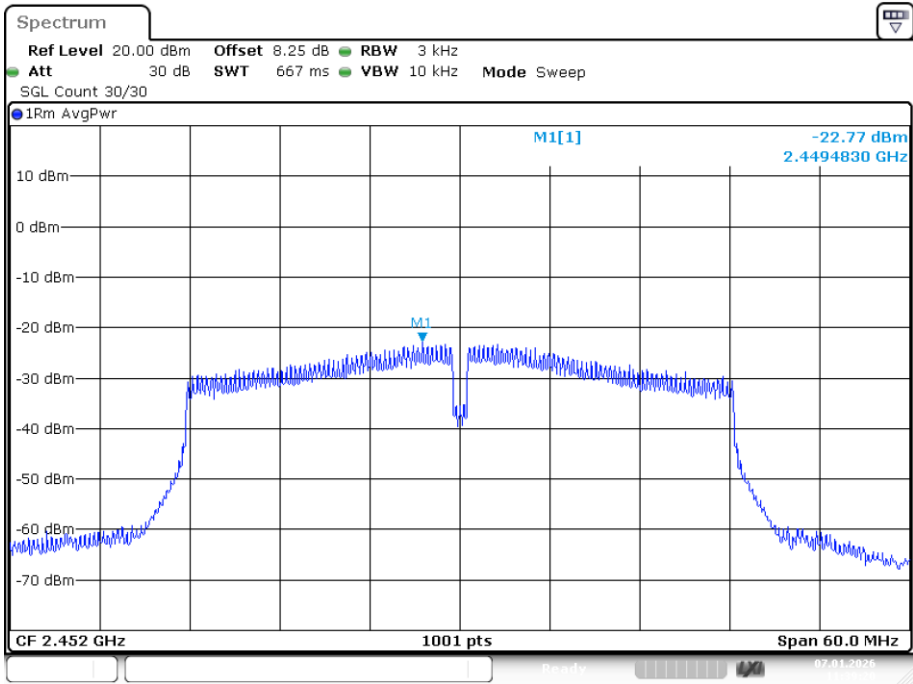
Date: 7.JAN.2026 11:34:10

PSD NVNT ax40 2437MHz Ant1



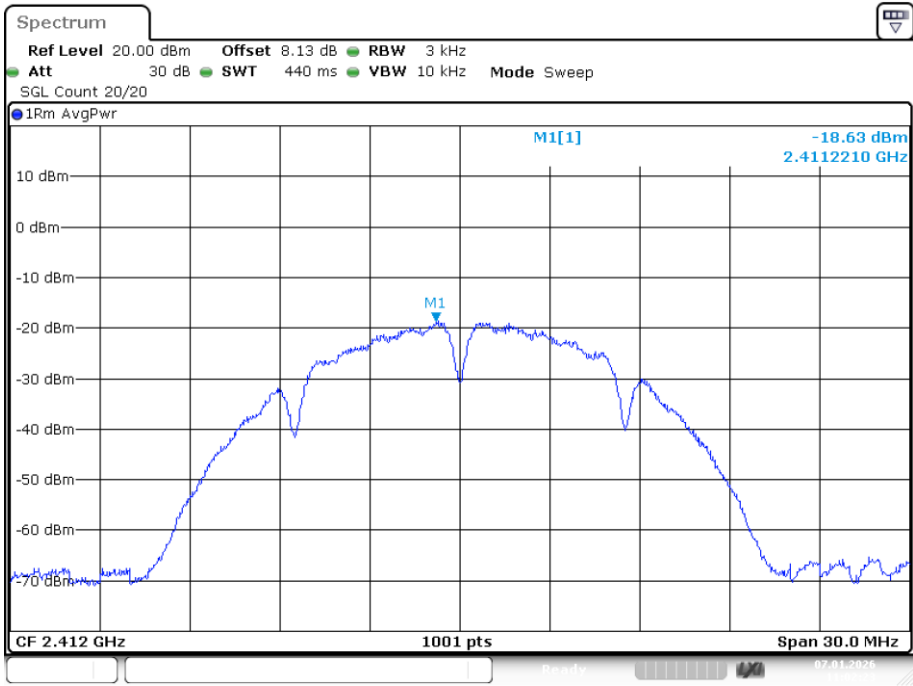
Date: 7.JAN.2026 11:37:04

PSD NVNT ax40 2452MHz Ant1



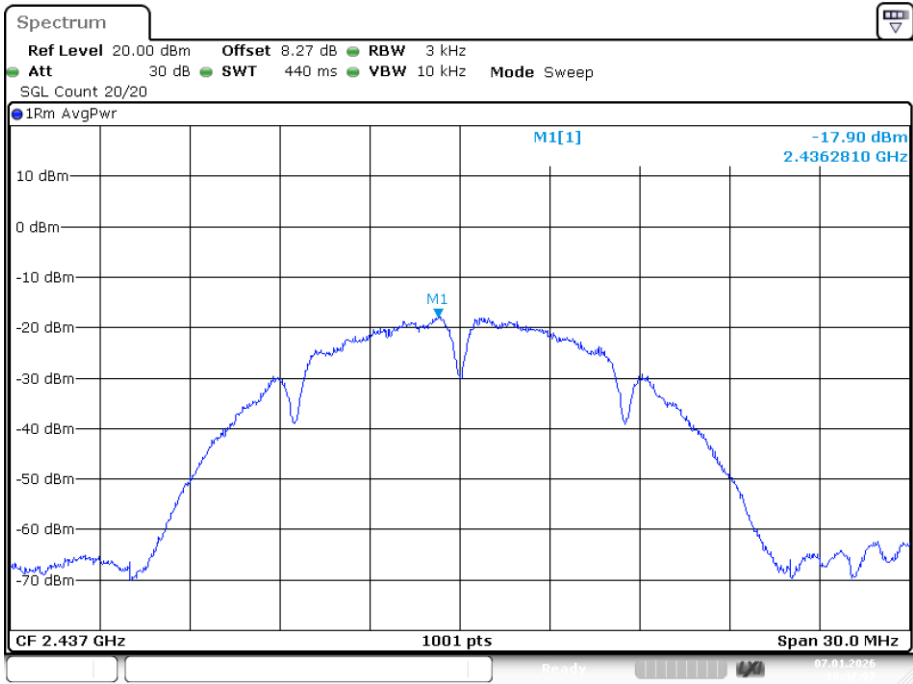
Date: 7.JAN.2026 11:39:20

PSD NVNT b 2412MHz Ant1



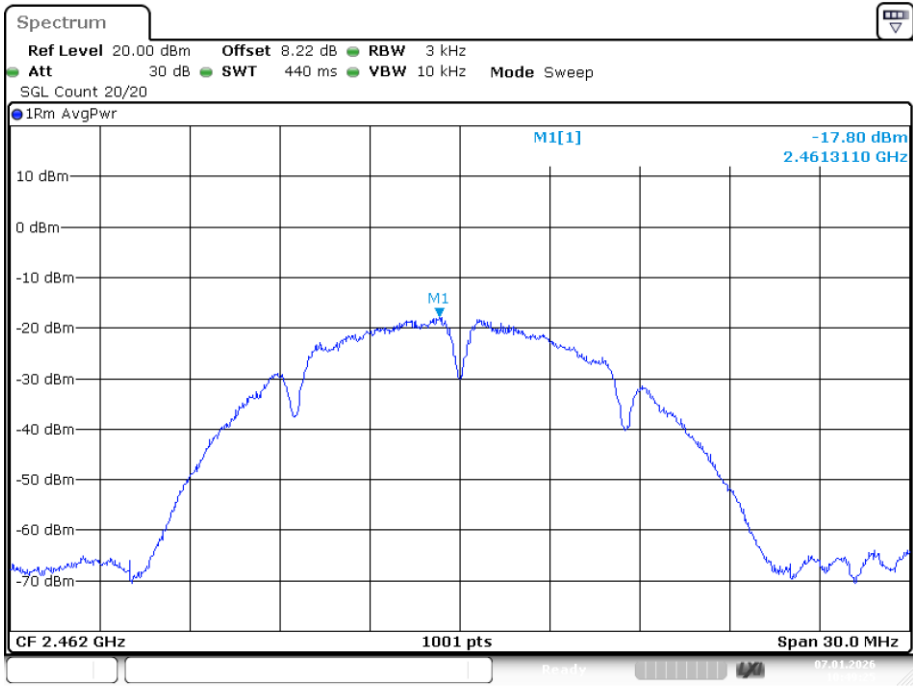
Date: 7.JAN.2026 11:02:23

PSD NVNT b 2437MHz Ant1



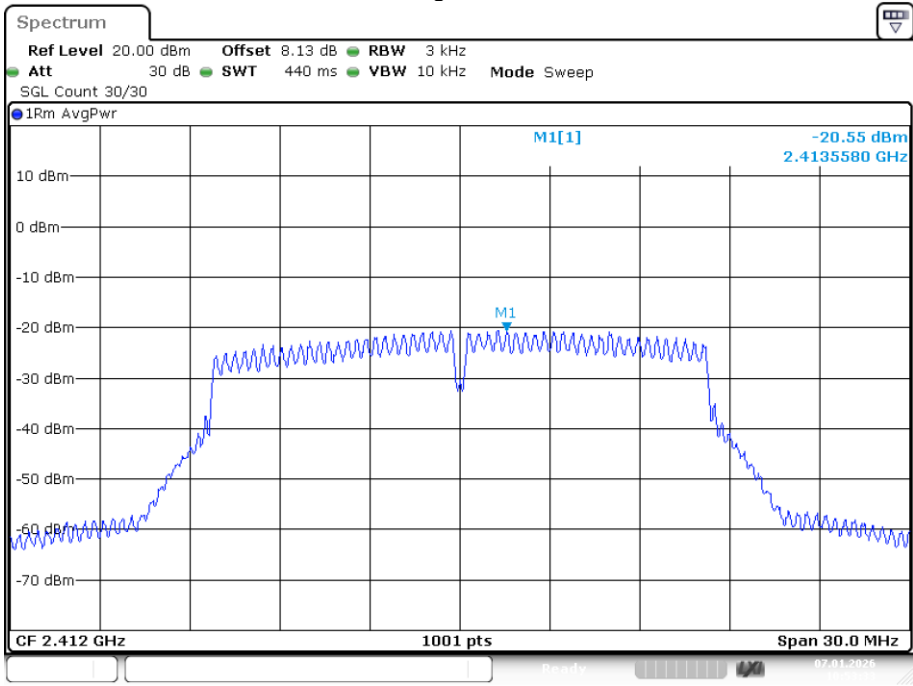
Date: 7.JAN.2026 10:47:07

PSD NVNT b 2462MHz Ant1



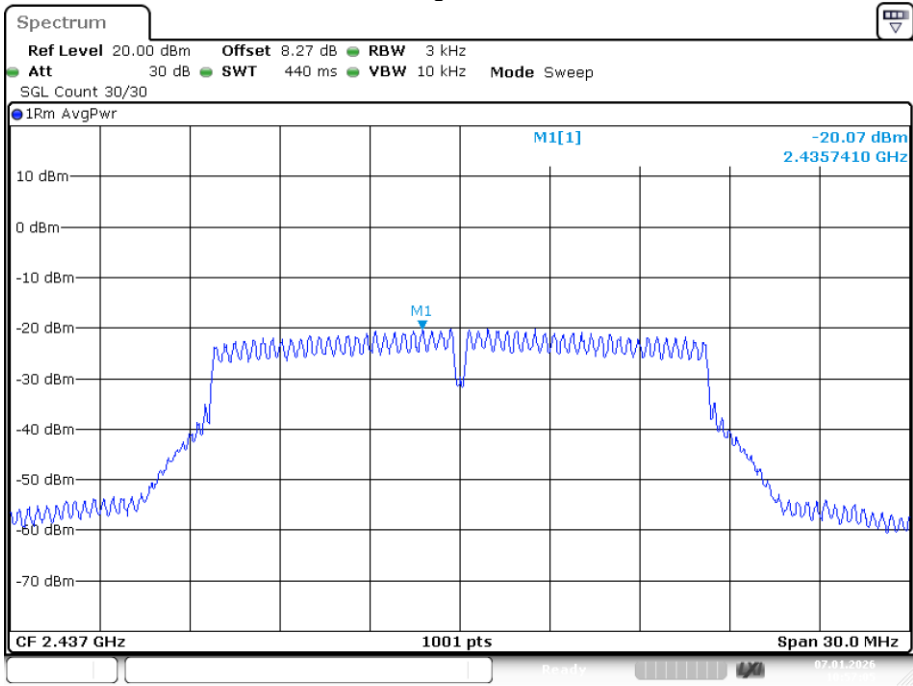
Date: 7.JAN.2026 10:49:25

PSD NVNT g 2412MHz Ant1



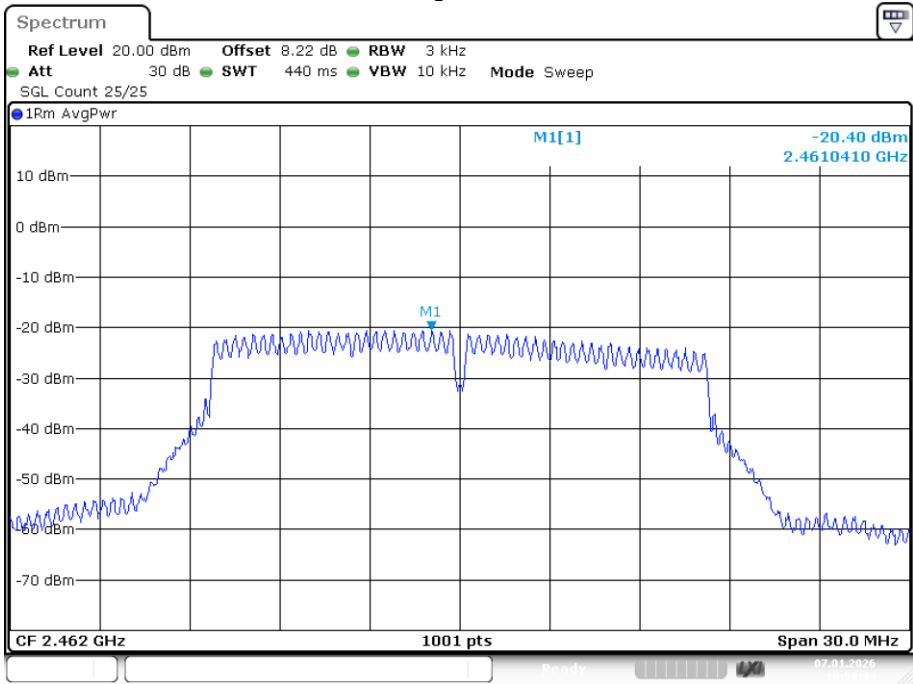
Date: 7.JAN.2026 10:53:34

PSD NVNT g 2437MHz Ant1



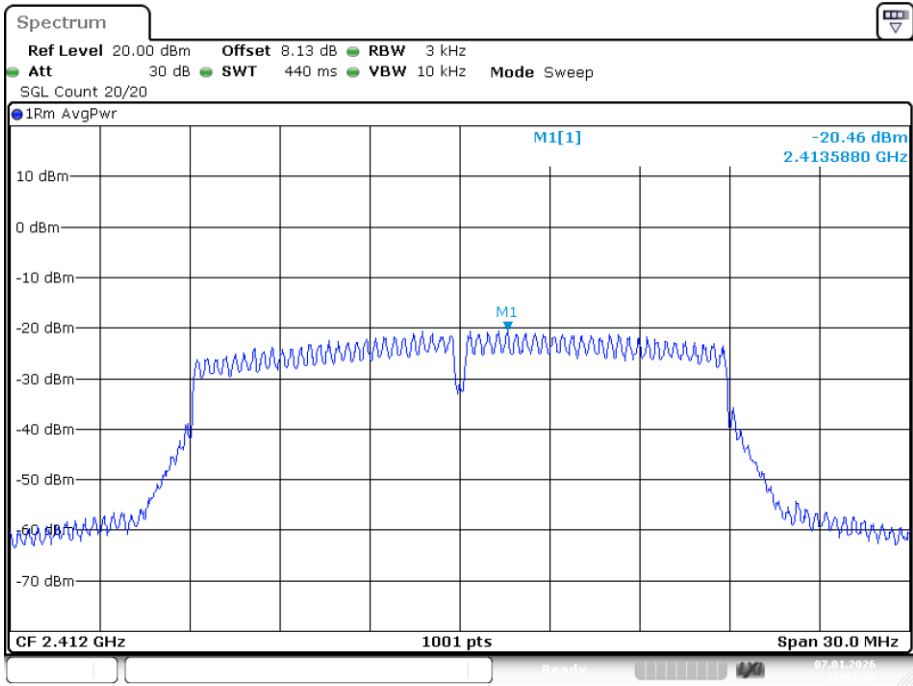
Date: 7.JAN.2026 10:57:06

PSD NVNT g 2462MHz Ant1



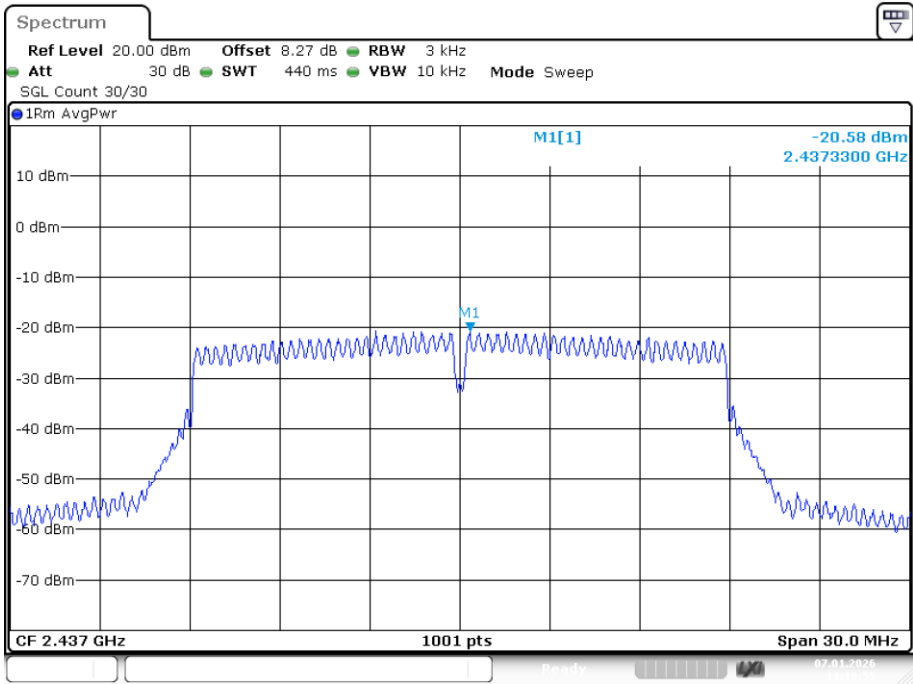
Date: 7.JAN.2026 10:59:44

PSD NVNT n20 2412MHz Ant1



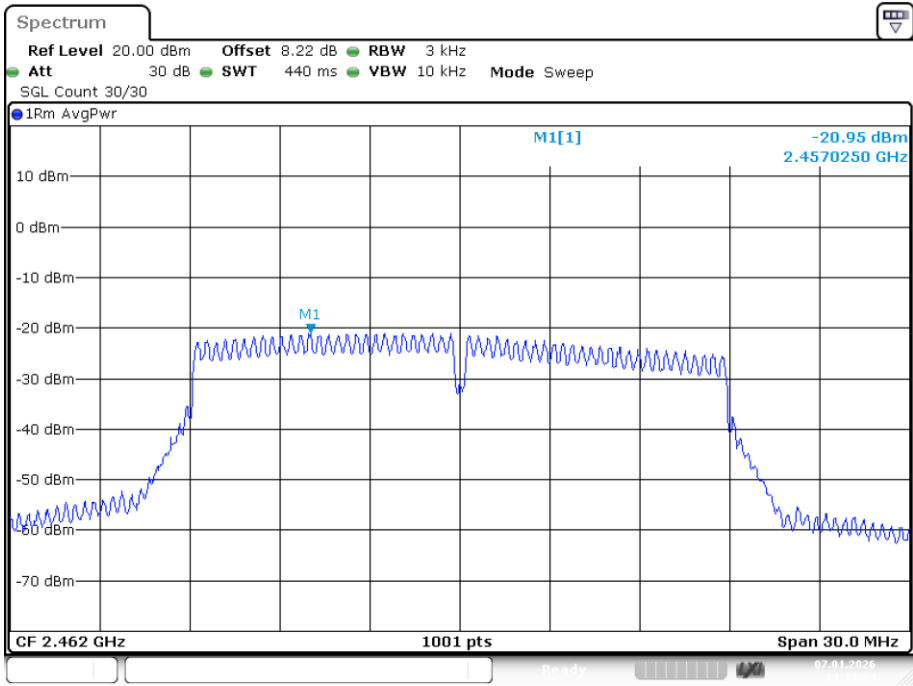
Date: 7.JAN.2026 11:07:50

PSD NVNT n20 2437MHz Ant1



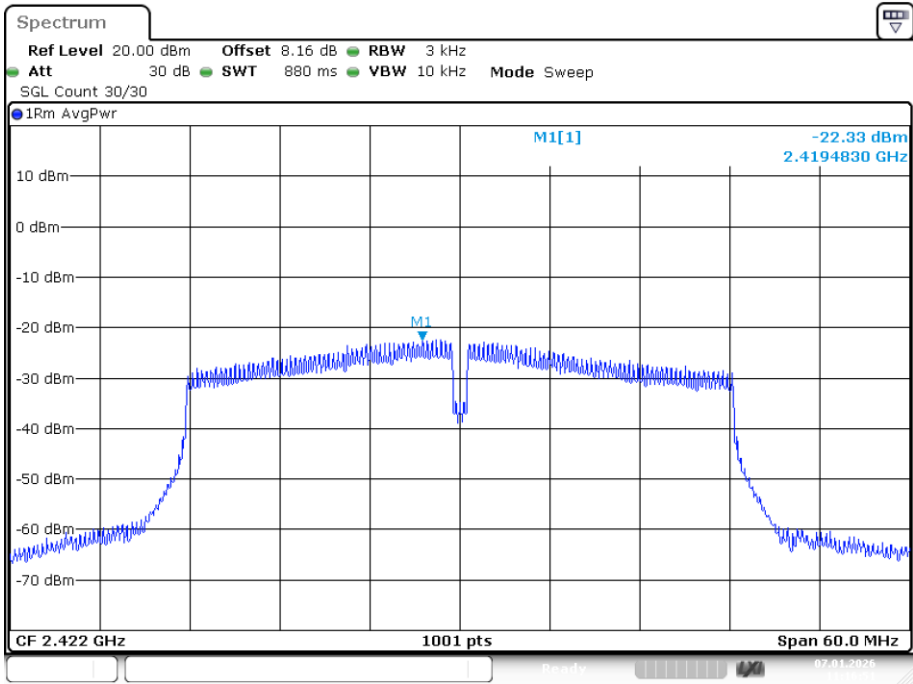
Date: 7.JAN.2026 11:10:55

PSD NVNT n20 2462MHz Ant1



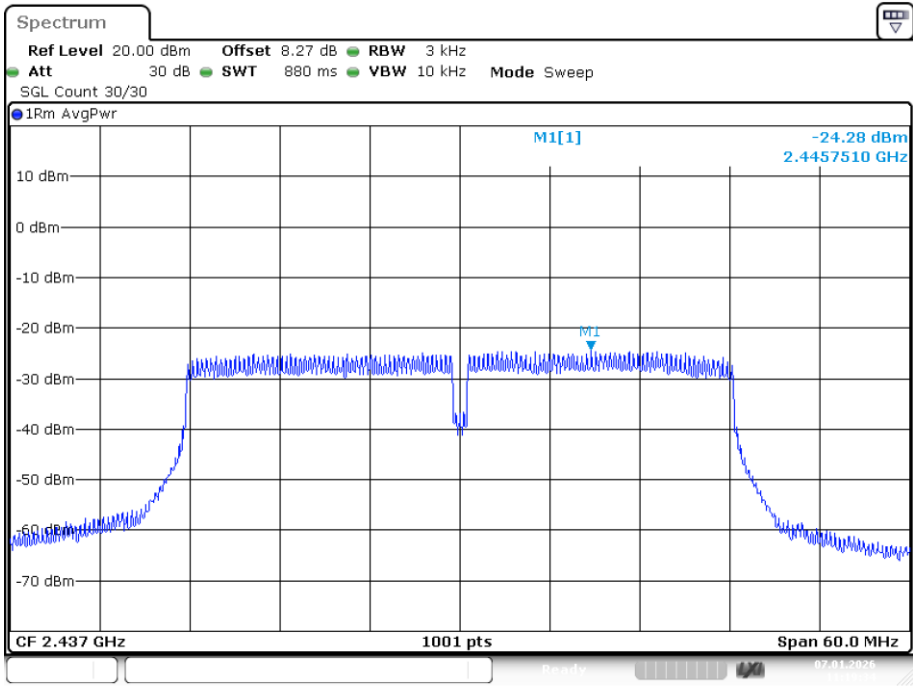
Date: 7.JAN.2026 11:13:25

PSD NVNT n40 2422MHz Ant1



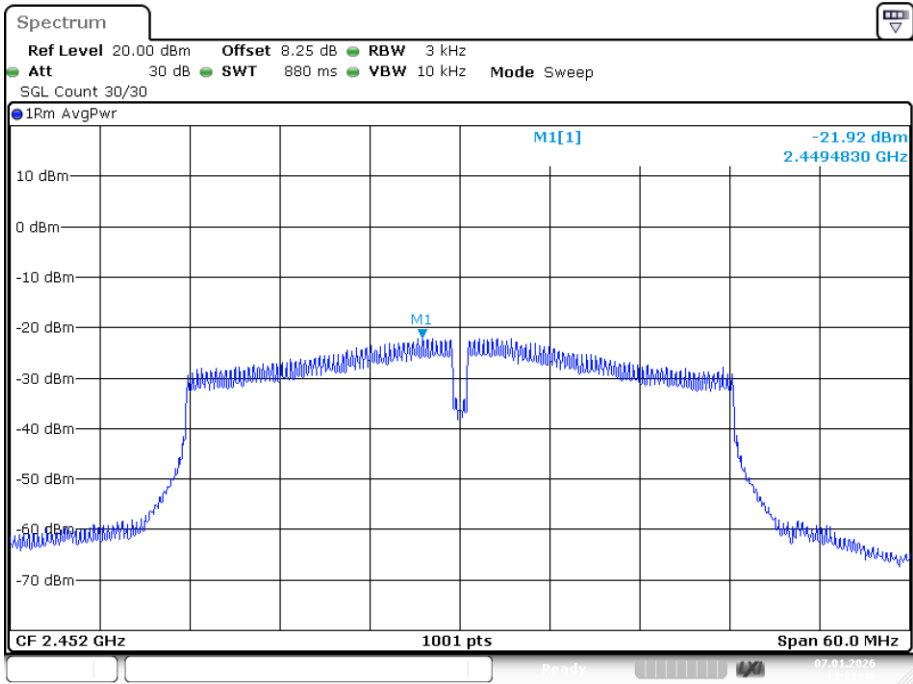
Date: 7.JAN.2026 11:16:50

PSD NVNT n40 2437MHz Ant1



Date: 7.JAN.2026 11:19:34

PSD NVNT n40 2452MHz Ant1



Date: 7.JAN.2026 11:21:46

9. BANDWIDTH

9.1. Test limits

Please refer FCC PART 15: 15.247

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

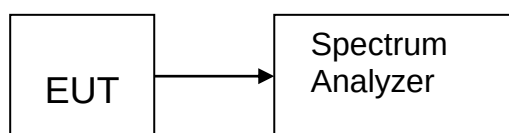
9.2. Test Procedure

Details see the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

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 $\geq$ 3*RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth and 6dB Bandwidth.

9.3. Test Setup

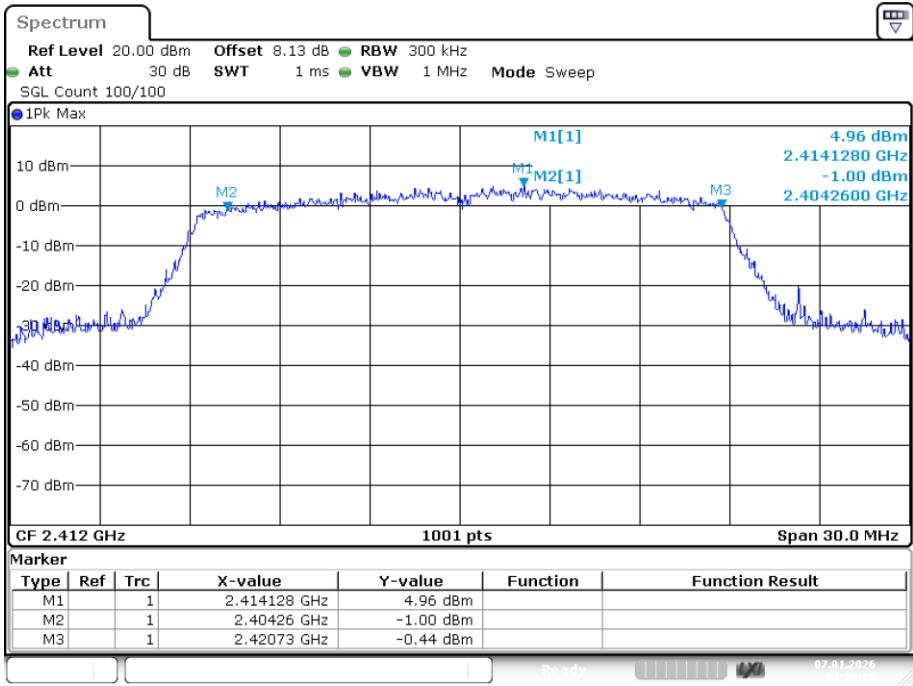


9.4. Test Results

-6dB Bandwidth

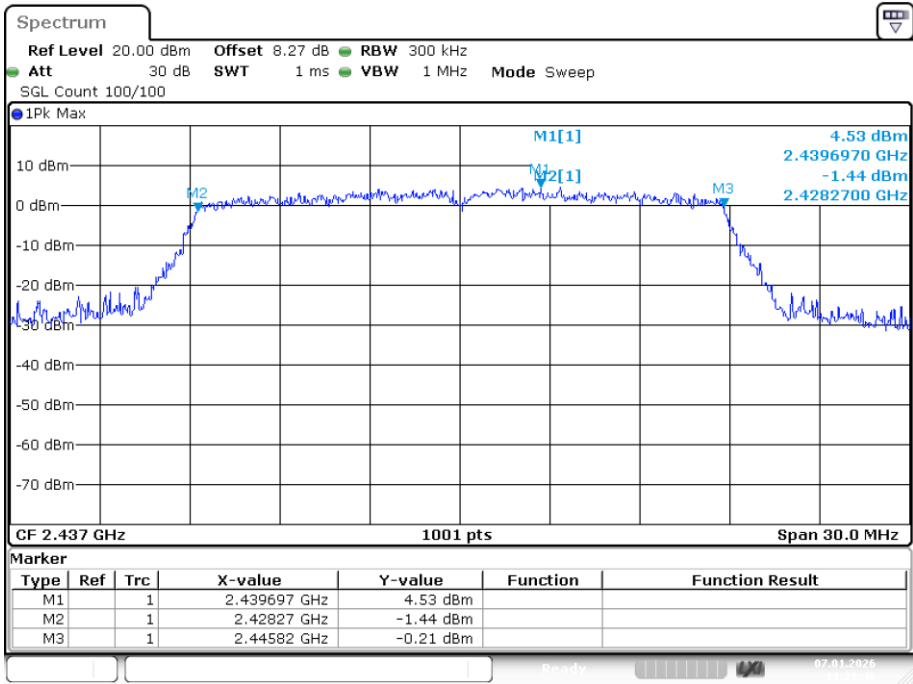
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant1	16.47	0.5	Pass
NVNT	ax20	2437	Ant1	17.55	0.5	Pass
NVNT	ax20	2462	Ant1	17.04	0.5	Pass
NVNT	ax40	2422	Ant1	35.16	0.5	Pass
NVNT	ax40	2437	Ant1	36.12	0.5	Pass
NVNT	ax40	2452	Ant1	35.46	0.5	Pass
NVNT	b	2412	Ant1	8.61	0.5	Pass
NVNT	b	2437	Ant1	8.19	0.5	Pass
NVNT	b	2462	Ant1	8.22	0.5	Pass
NVNT	g	2412	Ant1	16.05	0.5	Pass
NVNT	g	2437	Ant1	16.32	0.5	Pass
NVNT	g	2462	Ant1	16.14	0.5	Pass
NVNT	n20	2412	Ant1	16.77	0.5	Pass
NVNT	n20	2437	Ant1	17.58	0.5	Pass
NVNT	n20	2462	Ant1	17.43	0.5	Pass
NVNT	n40	2422	Ant1	34.08	0.5	Pass
NVNT	n40	2437	Ant1	35.82	0.5	Pass
NVNT	n40	2452	Ant1	36	0.5	Pass

-6dB Bandwidth NVNT ax20 2412MHz Ant1



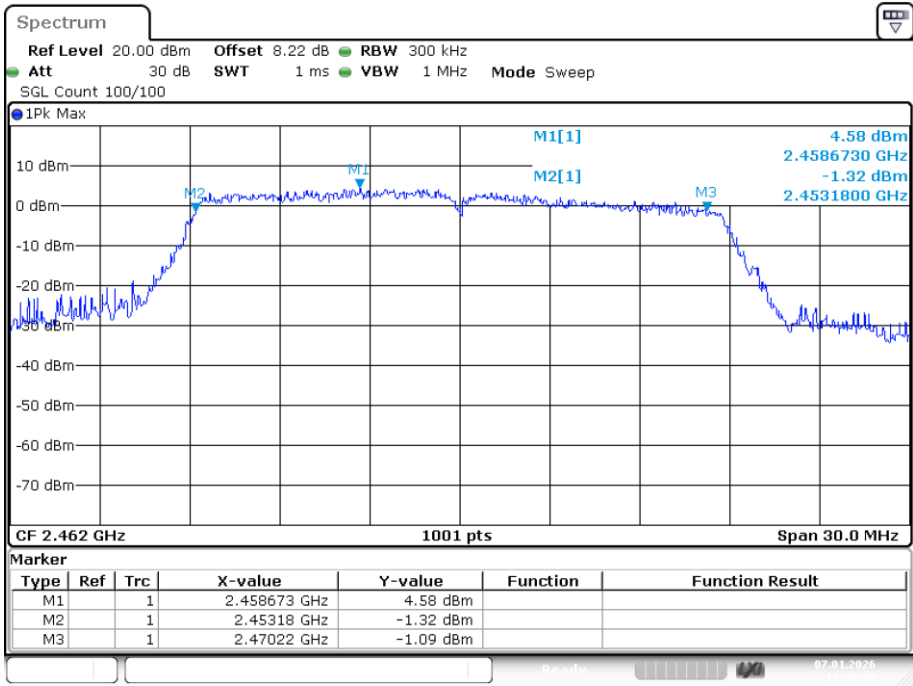
Date: 7.JAN.2026 11:26:01

-6dB Bandwidth NVNT ax20 2437MHz Ant1



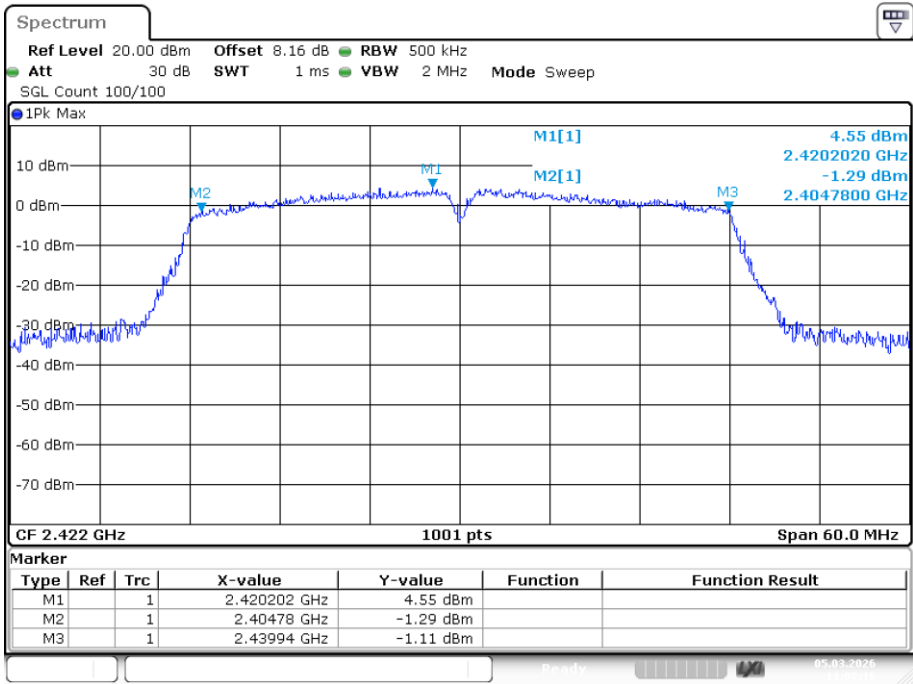
Date: 7.JAN.2026 11:28:47

-6dB Bandwidth NVNT ax20 2462MHz Ant1



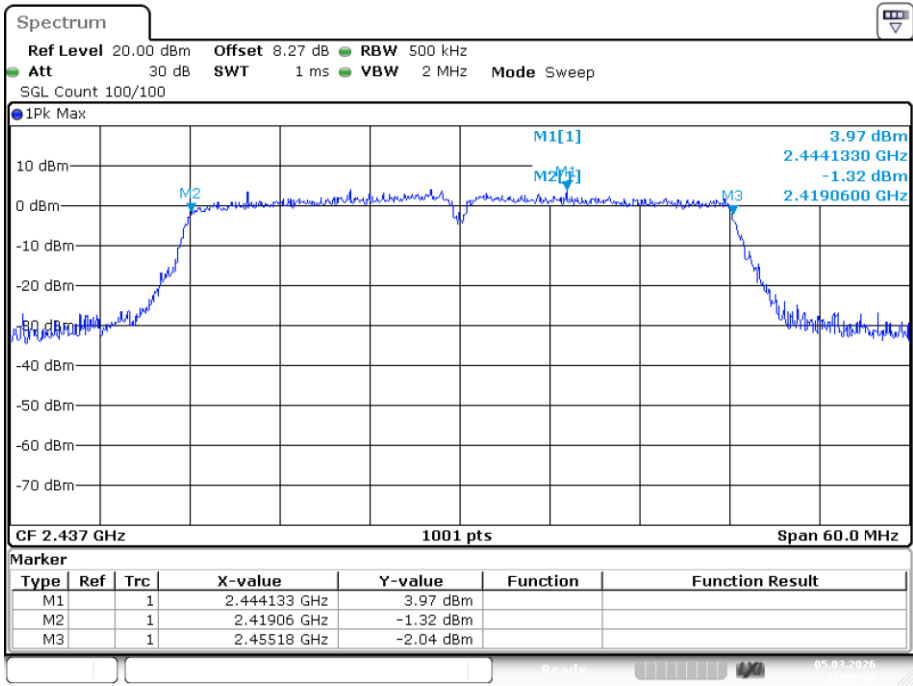
Date: 7.JAN.2026 11:30:30

-6dB Bandwidth NVNT ax40 2422MHz Ant1



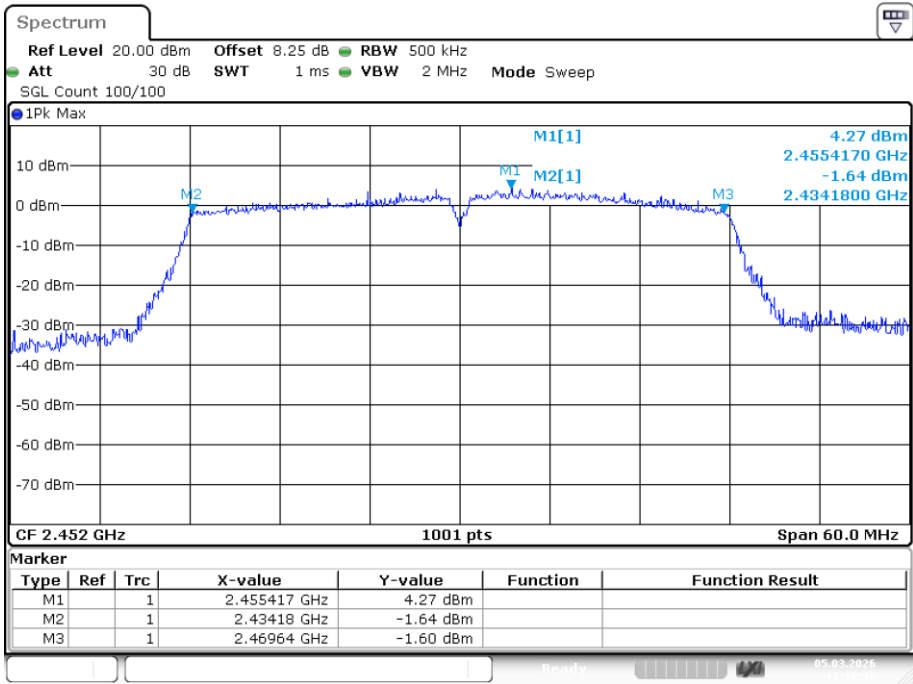
Date: 5.MAR.2026 11:08:17

-6dB Bandwidth NVNT ax40 2437MHz Ant1



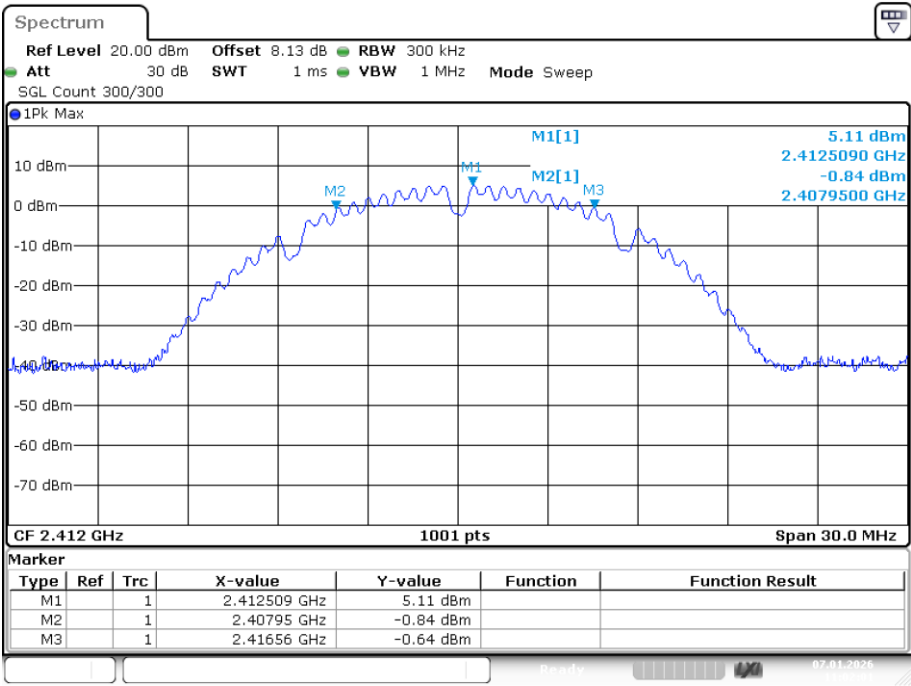
Date: 5.MAR.2026 11:09:17

-6dB Bandwidth NVNT ax40 2452MHz Ant1



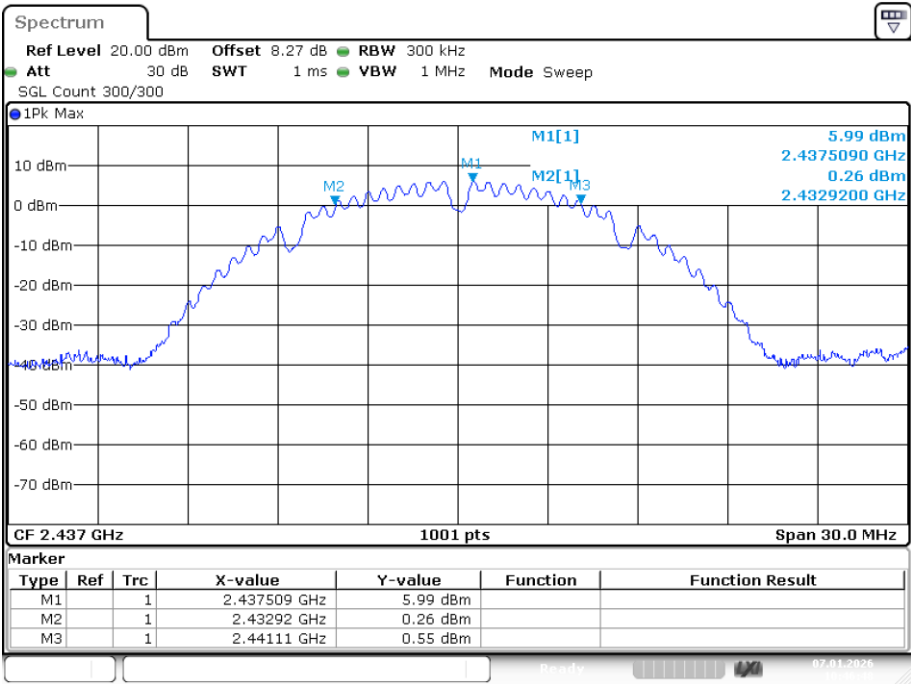
Date: 5.MAR.2026 11:10:30

-6dB Bandwidth NVNT b 2412MHz Ant1



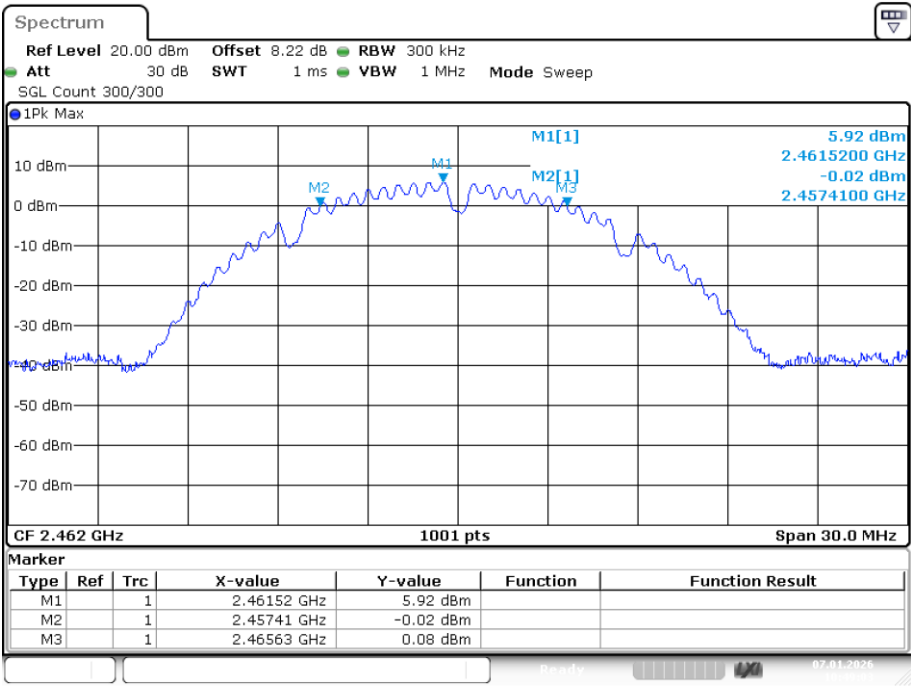
Date: 7.JAN.2026 11:02:01

-6dB Bandwidth NVNT b 2437MHz Ant1



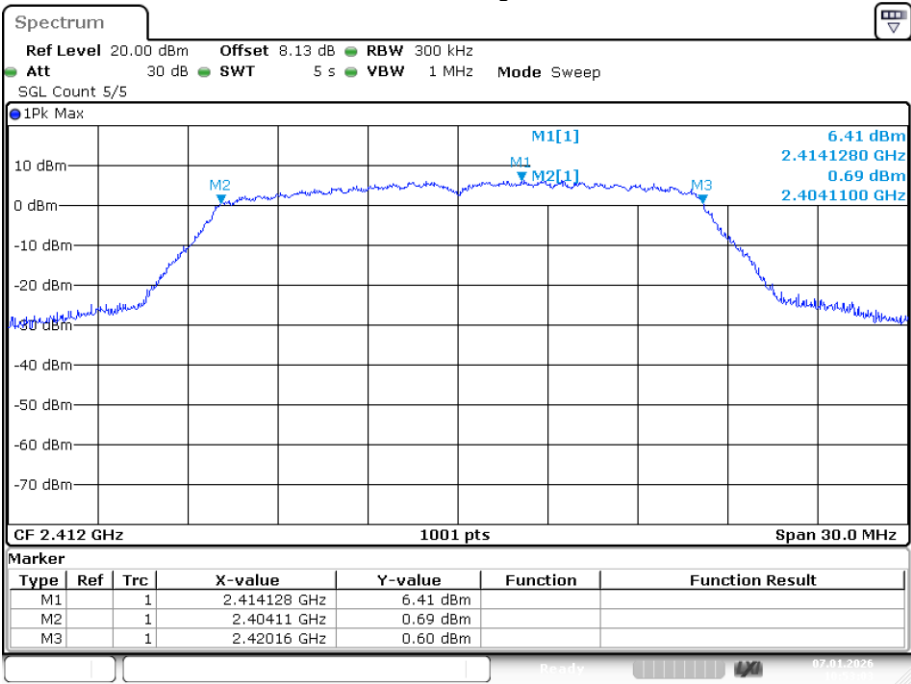
Date: 7.JAN.2026 10:46:47

-6dB Bandwidth NVNT b 2462MHz Ant1



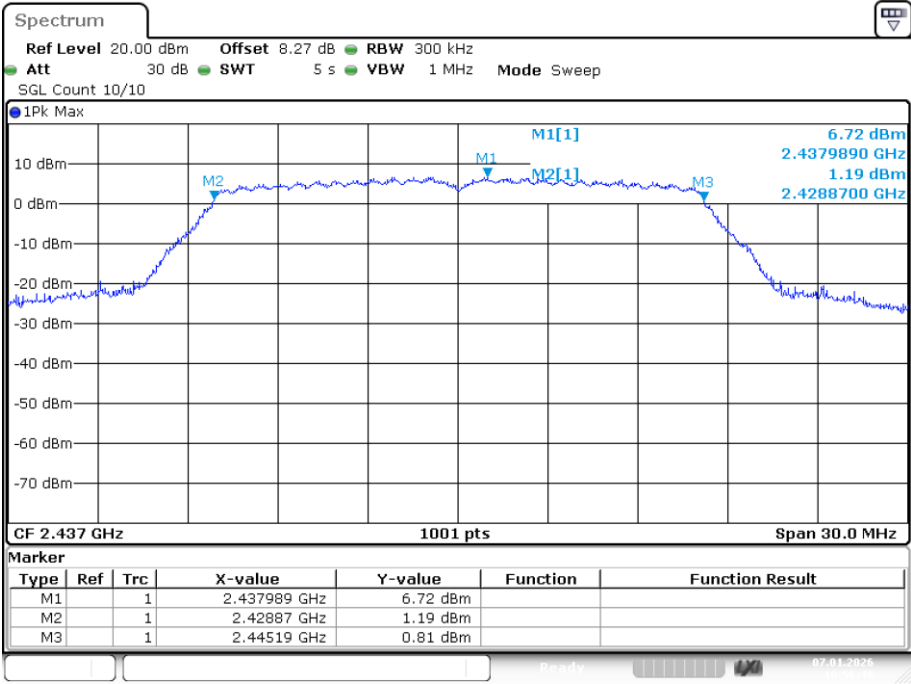
Date: 7.JAN.2026 10:49:03

-6dB Bandwidth NVNT g 2412MHz Ant1



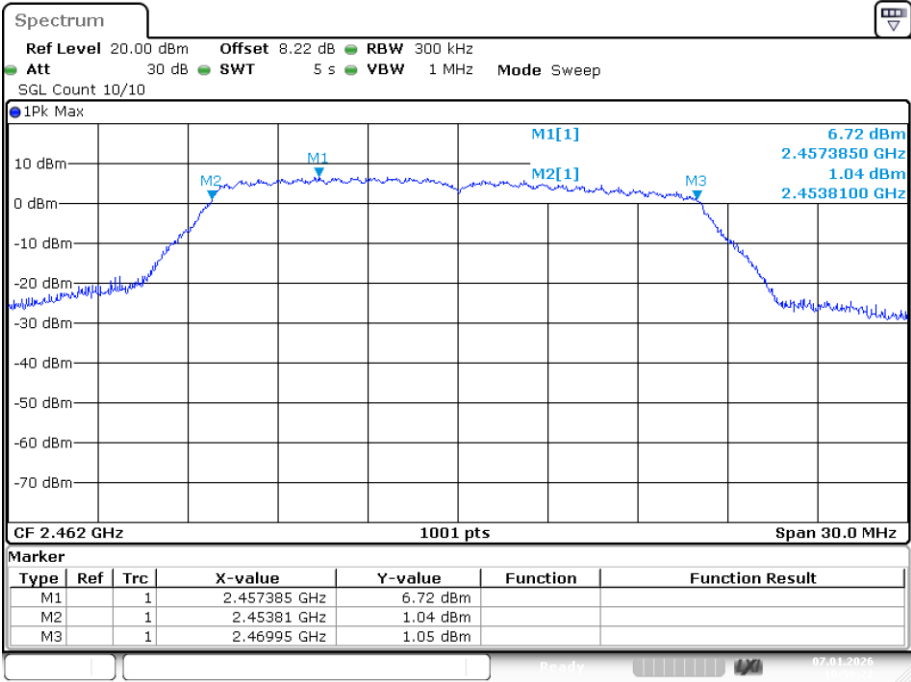
Date: 7.JAN.2026 10:53:03

-6dB Bandwidth NVNT g 2437MHz Ant1



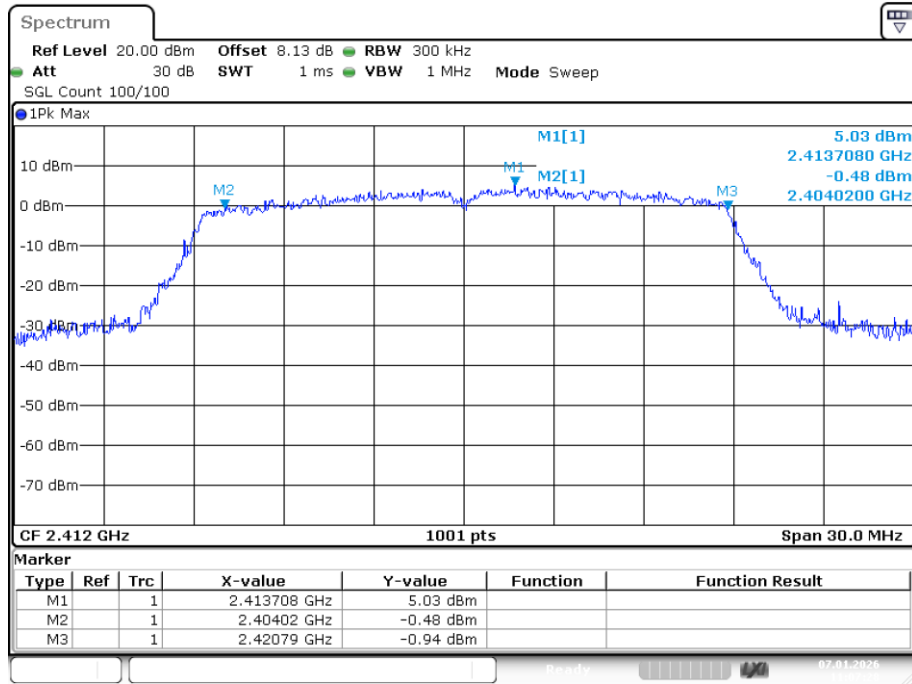
Date: 7.JAN.2026 10:56:40

-6dB Bandwidth NVNT g 2462MHz Ant1



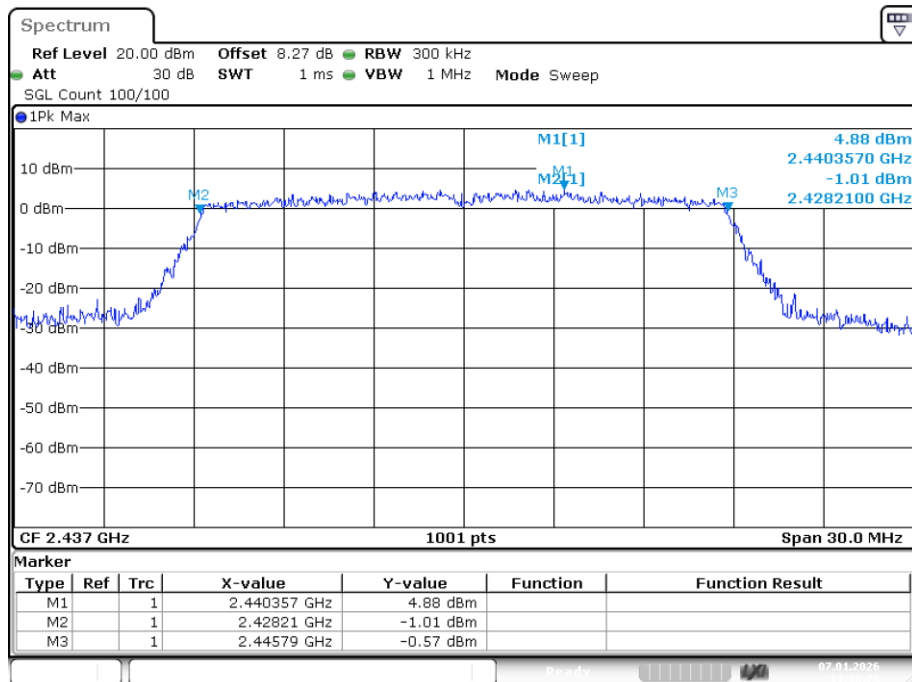
Date: 7.JAN.2026 10:59:21

-6dB Bandwidth NVNT n20 2412MHz Ant1



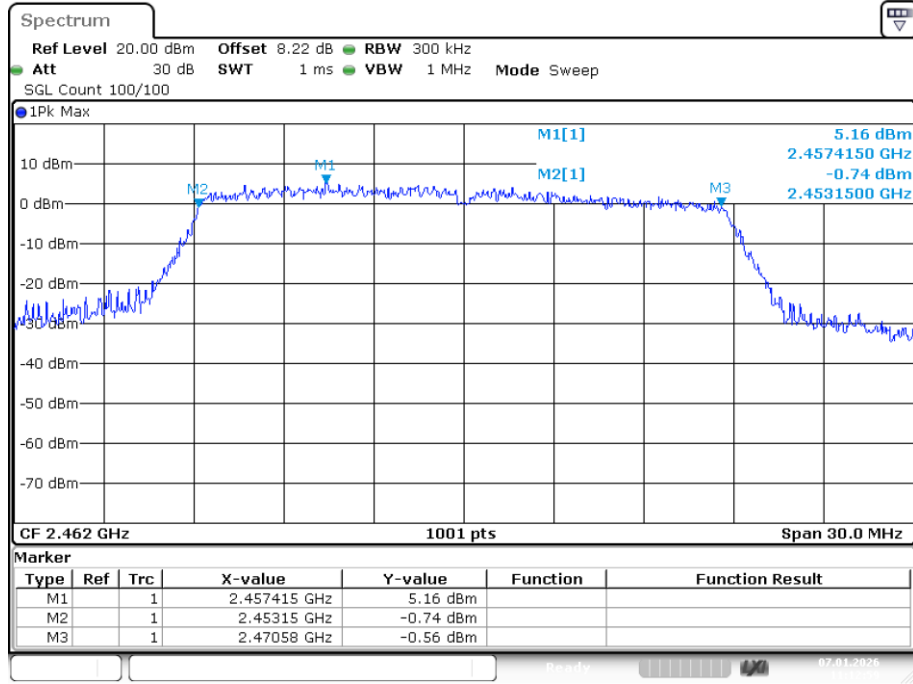
Date: 7.JAN.2026 11:07:28

-6dB Bandwidth NVNT n20 2437MHz Ant1



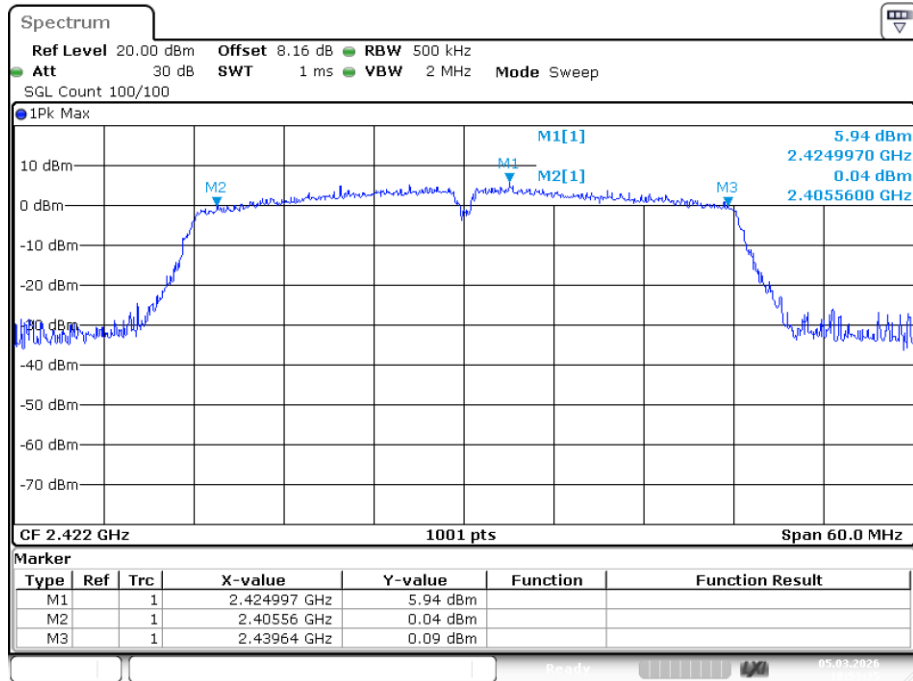
Date: 7.JAN.2026 11:10:25

-6dB Bandwidth NVNT n20 2462MHz Ant1



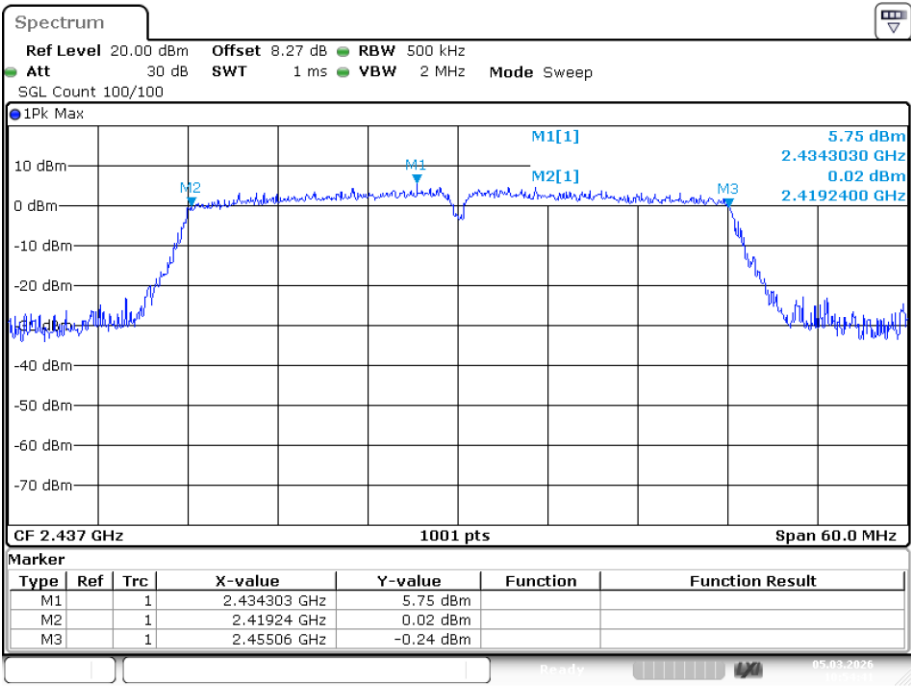
Date: 7.JAN.2026 11:12:59

-6dB Bandwidth NVNT n40 2422MHz Ant1



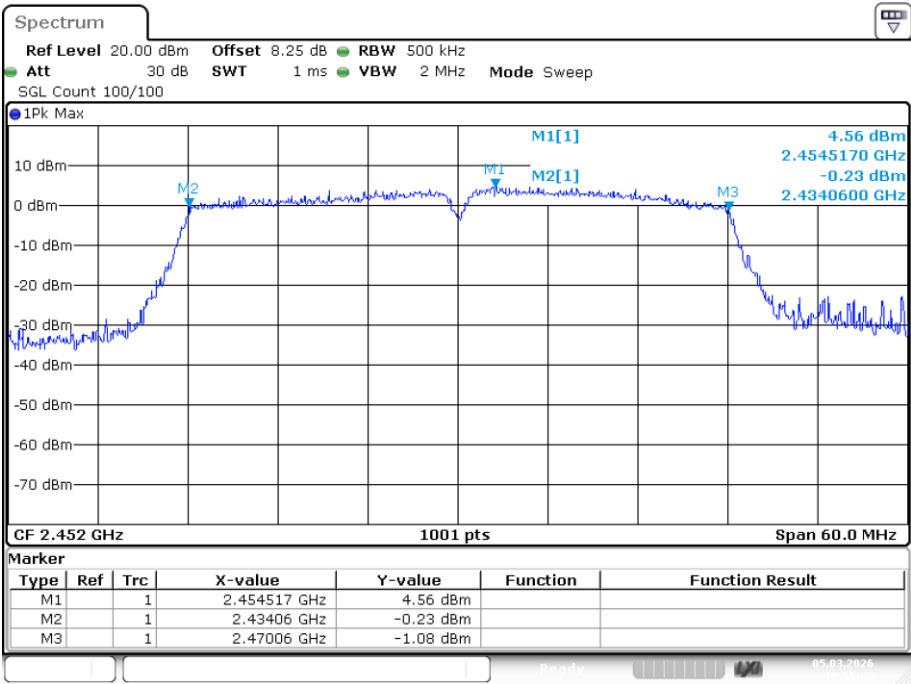
Date: 5.MAR.2026 10:53:34

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 5.MAR.2026 10:54:41

-6dB Bandwidth NVNT n40 2452MHz Ant1

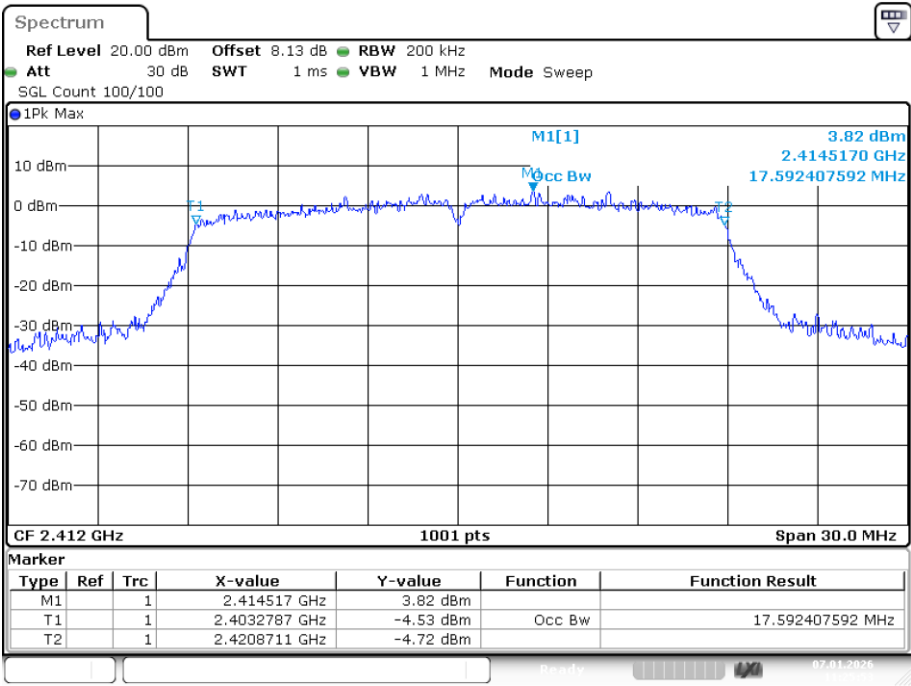


Date: 5.MAR.2026 10:55:43

Occupied Channel Bandwidth

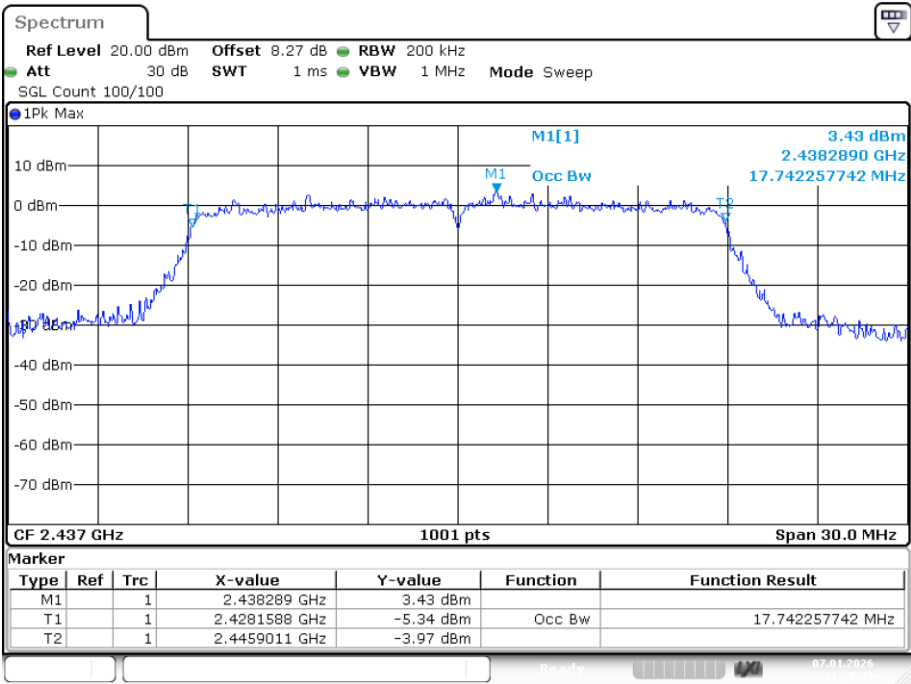
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	17.592
NVNT	ax20	2437	Ant1	17.742
NVNT	ax20	2462	Ant1	17.682
NVNT	ax40	2422	Ant1	35.844
NVNT	ax40	2437	Ant1	36.264
NVNT	ax40	2452	Ant1	35.844
NVNT	b	2412	Ant1	12.737
NVNT	b	2437	Ant1	13.037
NVNT	b	2462	Ant1	12.947
NVNT	g	2412	Ant1	16.454
NVNT	g	2437	Ant1	16.573
NVNT	g	2462	Ant1	16.513
NVNT	n20	2412	Ant1	17.532
NVNT	n20	2437	Ant1	17.712
NVNT	n20	2462	Ant1	17.622
NVNT	n40	2422	Ant1	35.784
NVNT	n40	2437	Ant1	36.324
NVNT	n40	2452	Ant1	35.784

OBW NVNT ax20 2412MHz Ant1



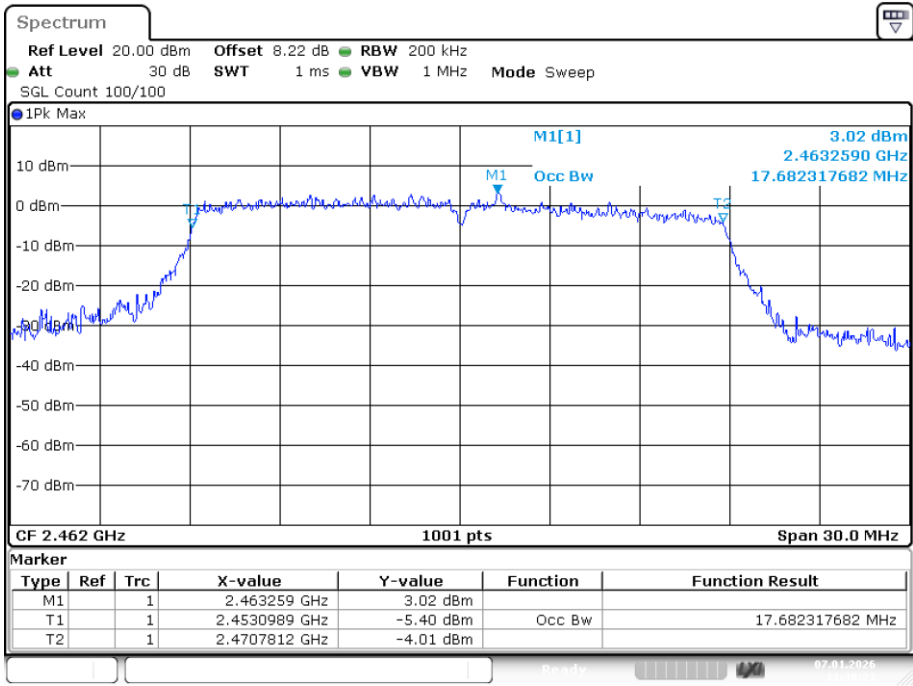
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OBW NVNT ax20 2437MHz Ant1



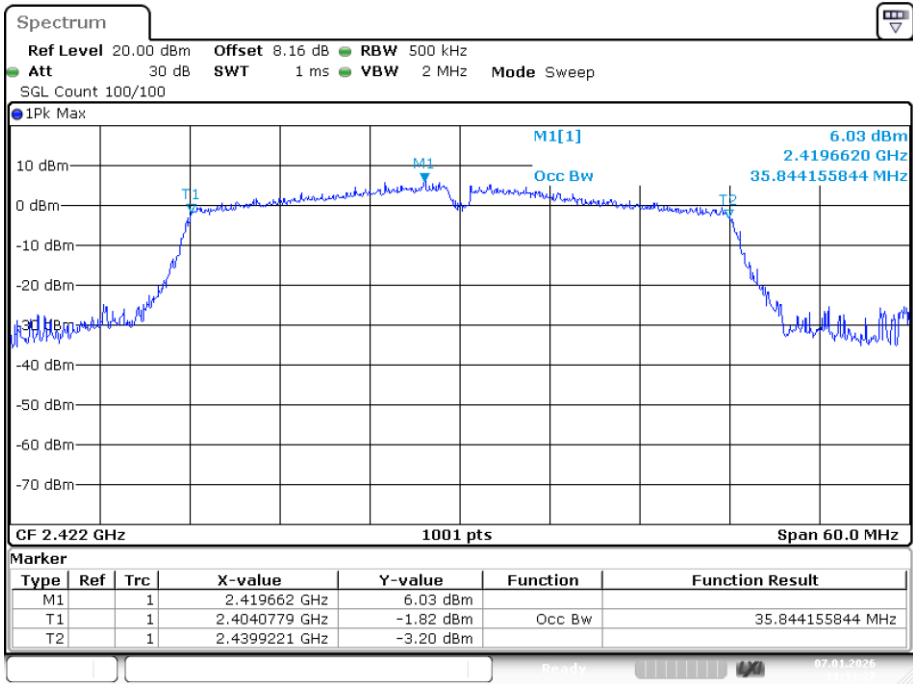
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OBW NVNT ax20 2462MHz Ant1



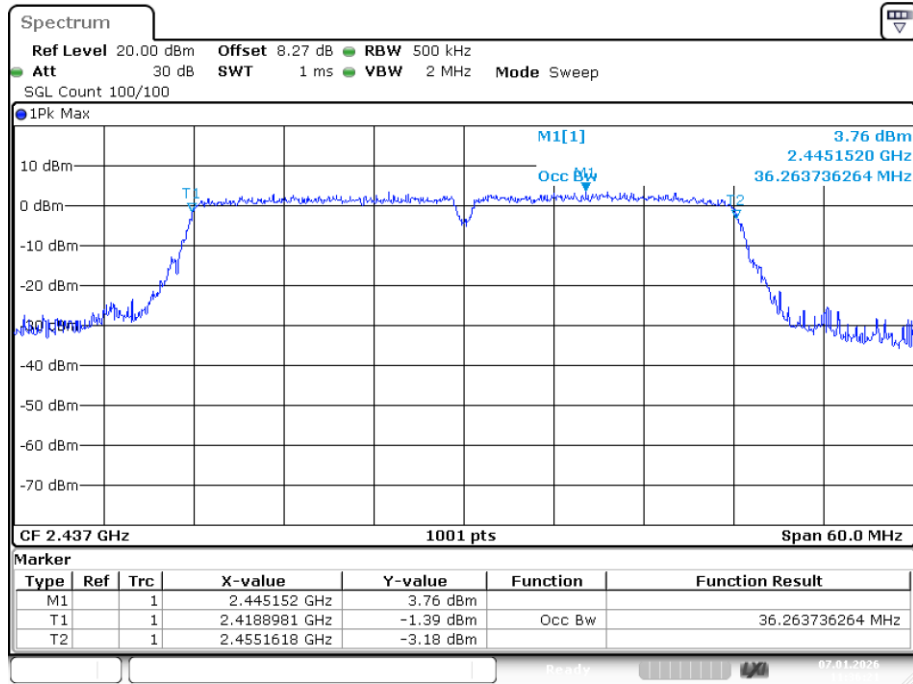
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OBW NVNT ax40 2422MHz Ant1



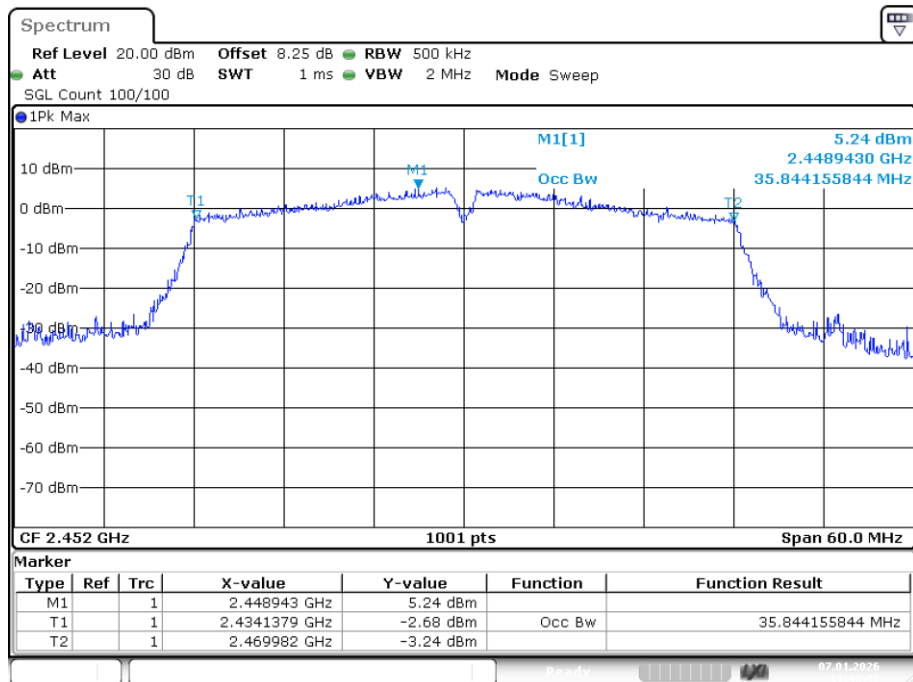
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OBW NVNT ax40 2437MHz Ant1



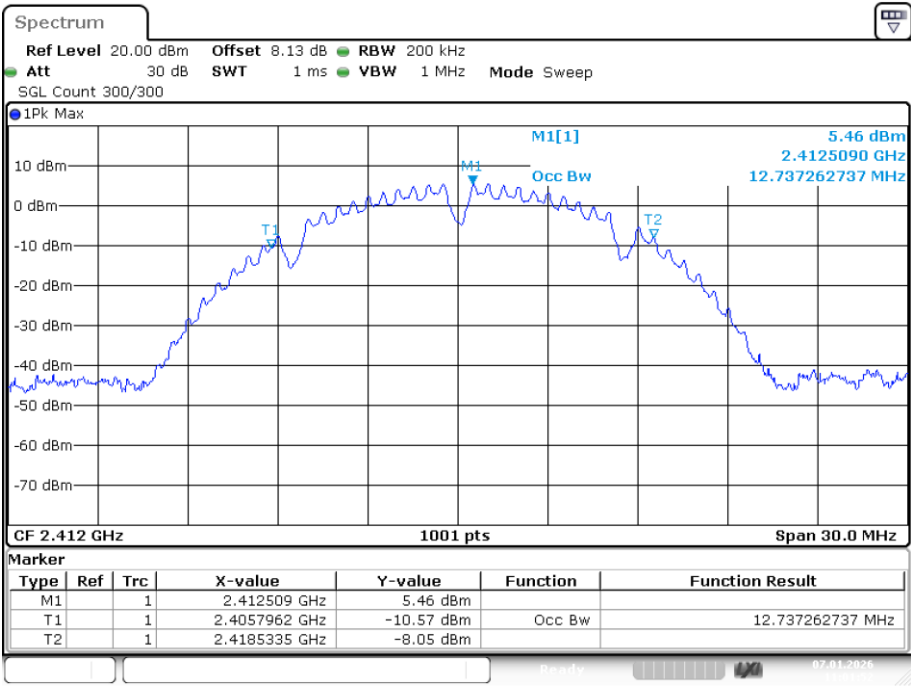
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OBW NVNT ax40 2452MHz Ant1



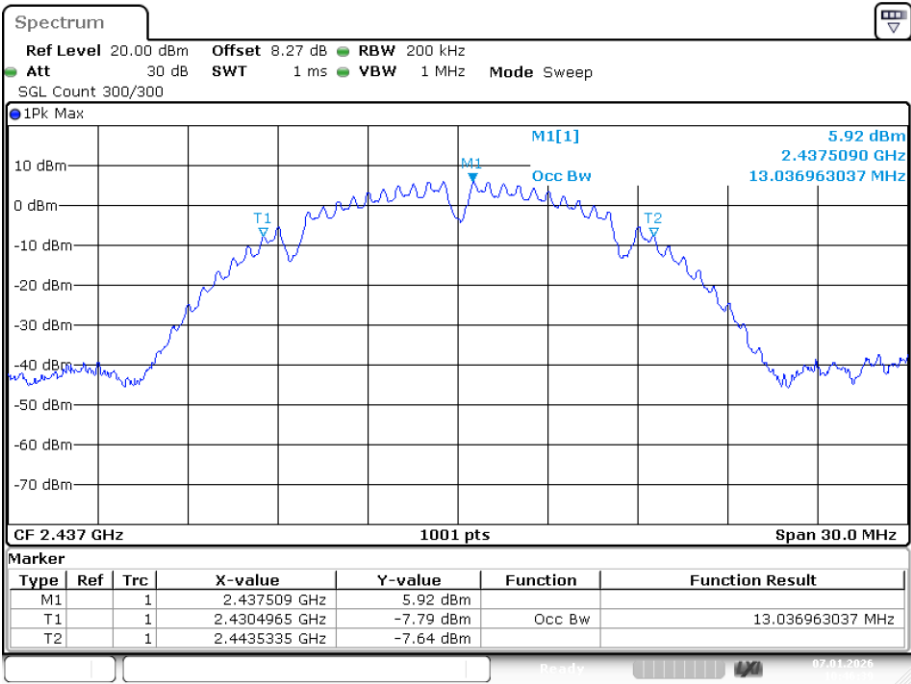
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OBW NVNT b 2412MHz Ant1



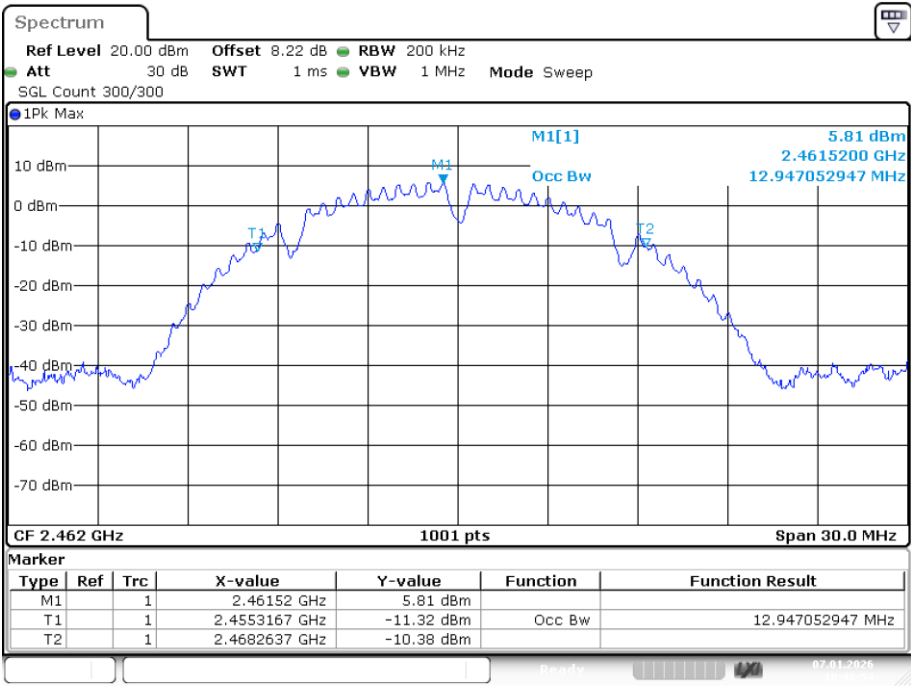
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OBW NVNT b 2437MHz Ant1



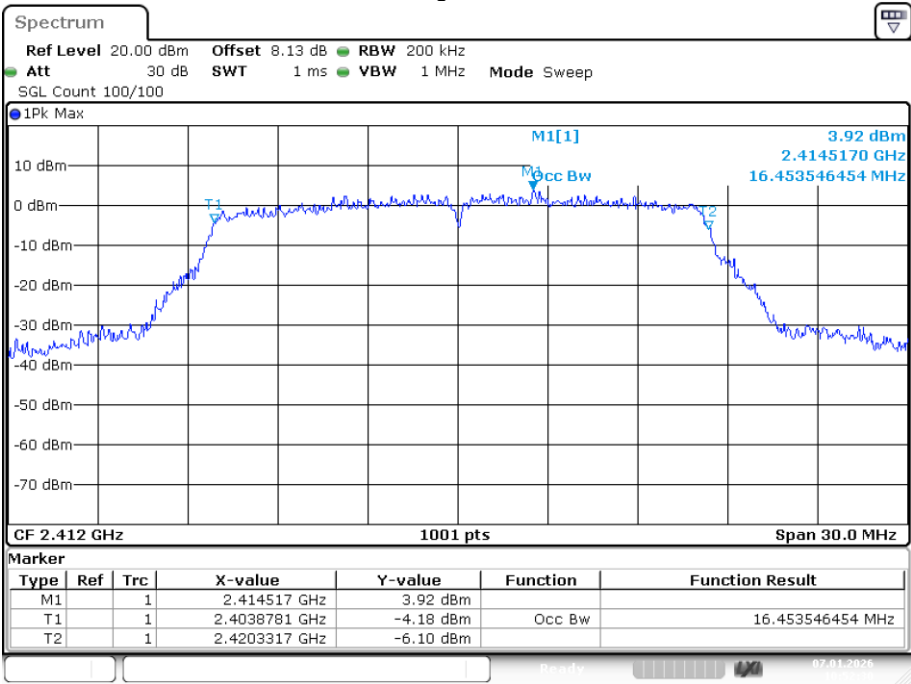
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OBW NVNT b 2462MHz Ant1



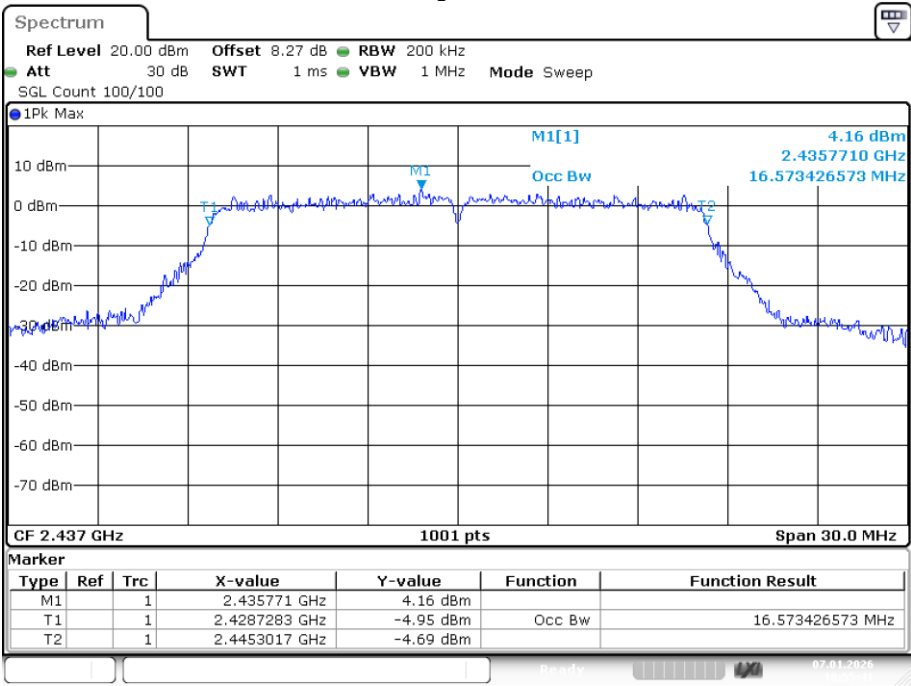
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OBW NVNT g 2412MHz Ant1



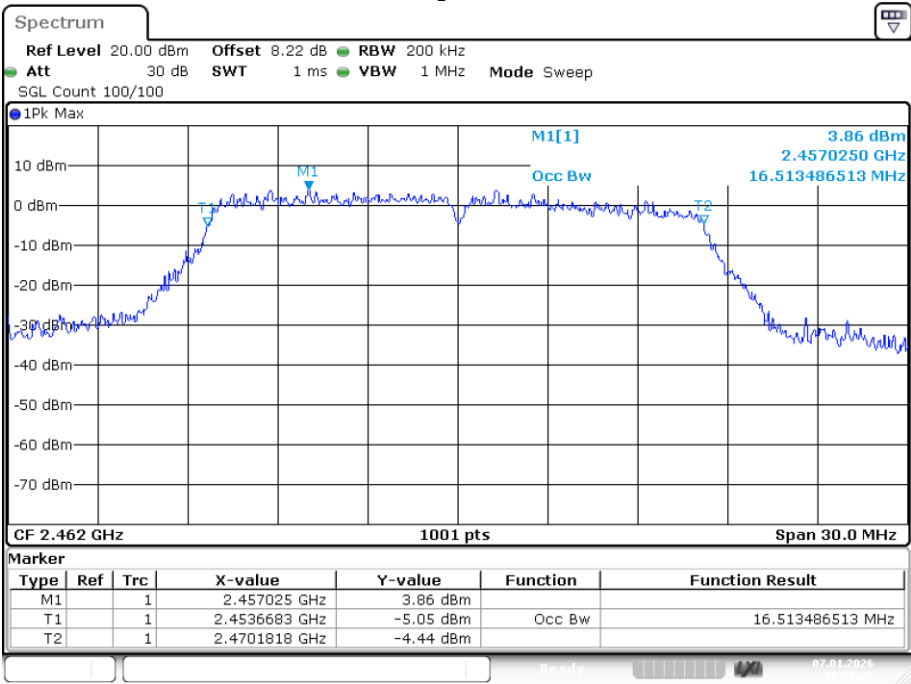
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OBW NVNT g 2437MHz Ant1



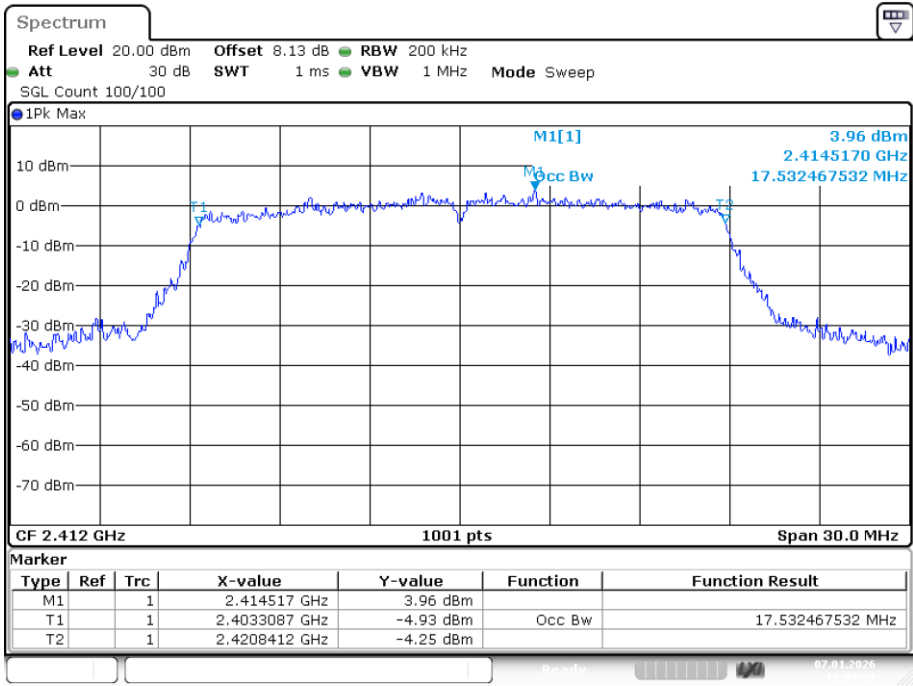
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OBW NVNT g 2462MHz Ant1



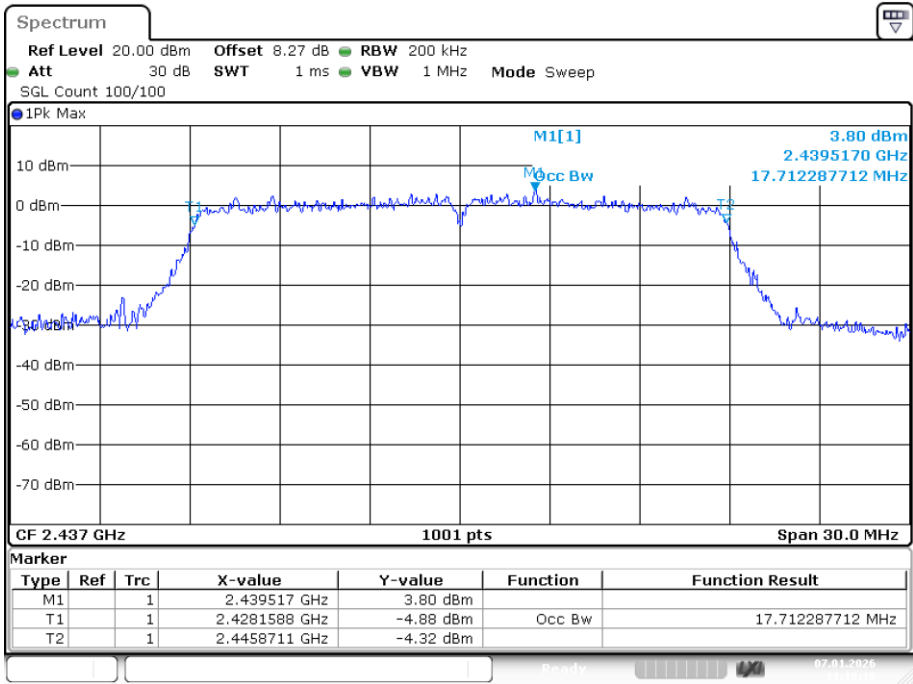
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OBW NVNT n20 2412MHz Ant1



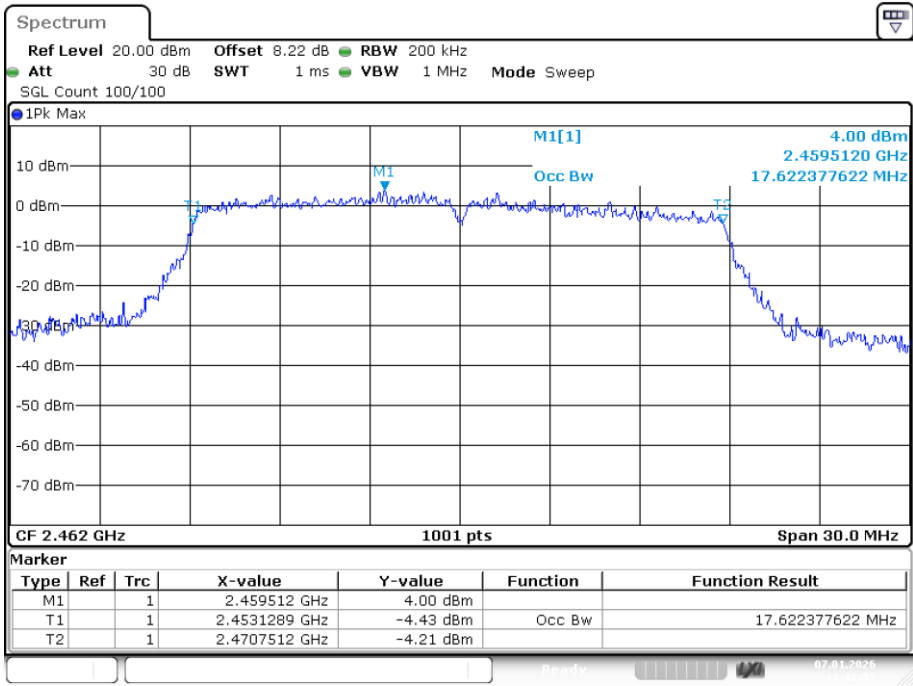
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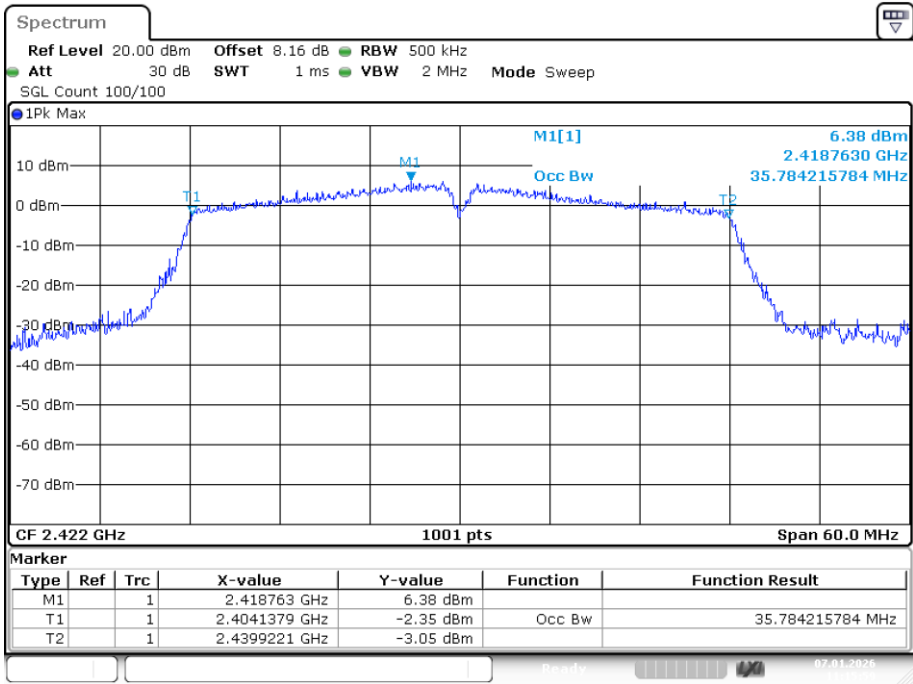
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OBW NVNT n20 2462MHz Ant1



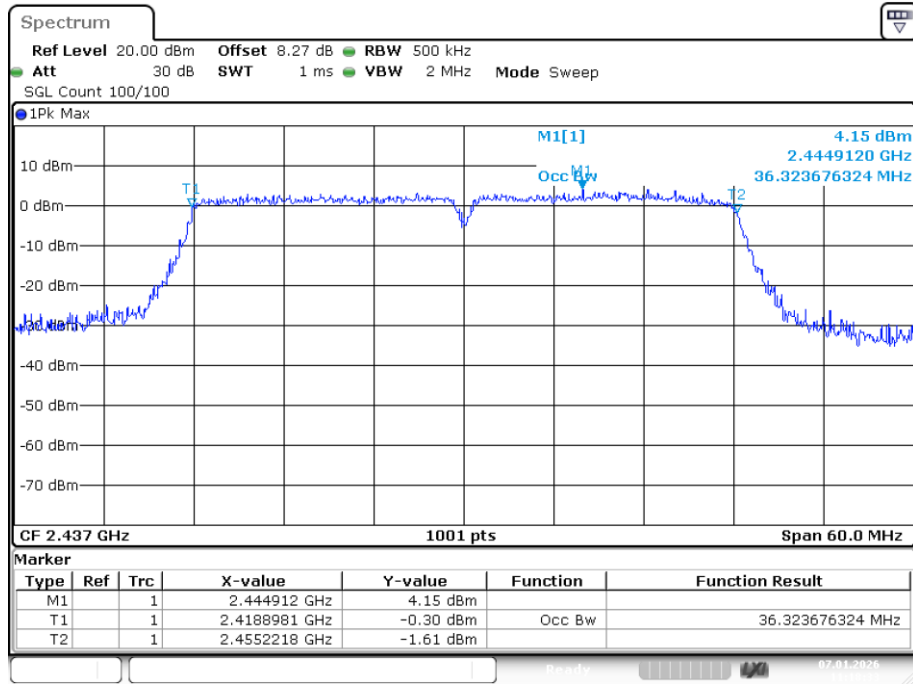
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OBW NVNT n40 2422MHz Ant1



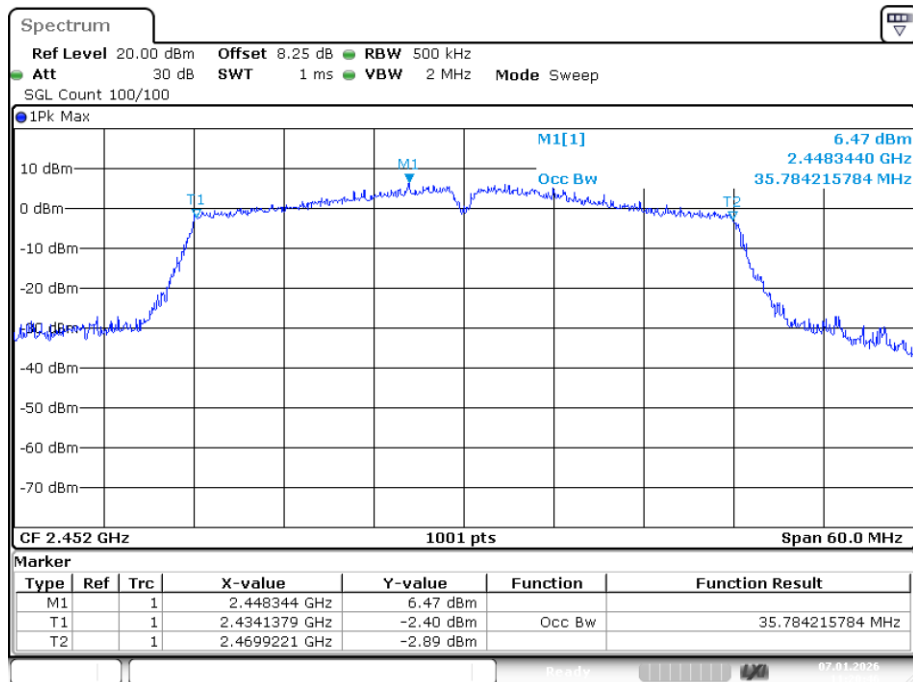
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OBW NVNT n40 2437MHz Ant1



Date: 7.JAN.2026 11:18:32

OBW NVNT n40 2452MHz Ant1



Date: 7.JAN.2026 11:20:46