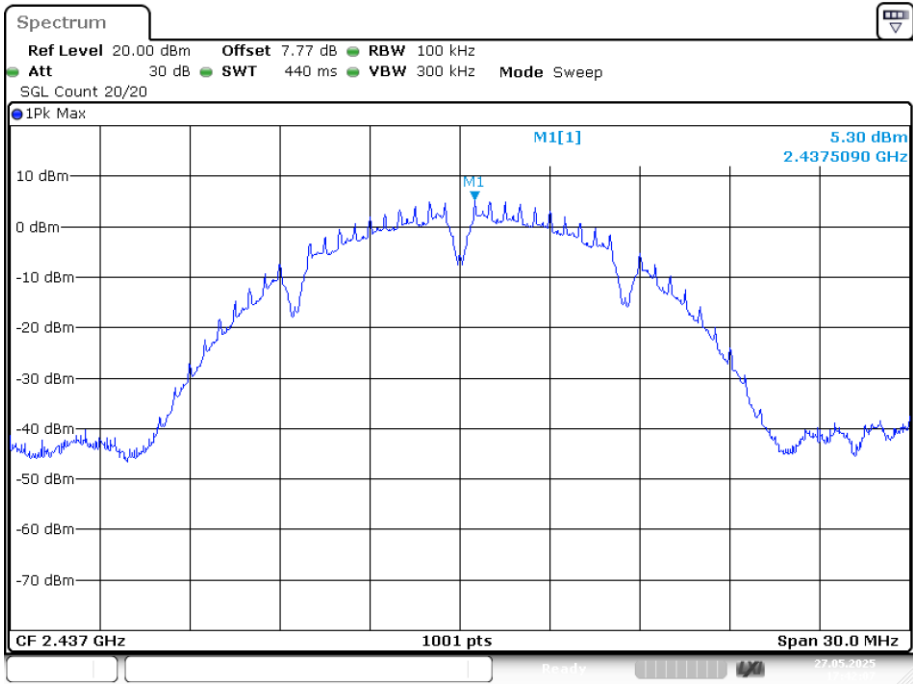
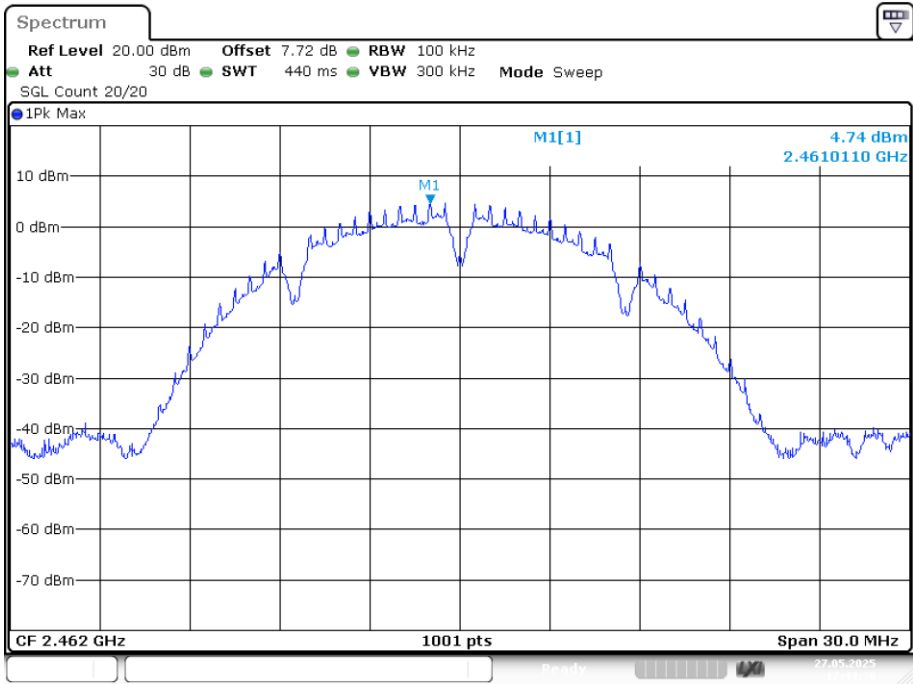


PSD NVNT b 2437MHz Ant1



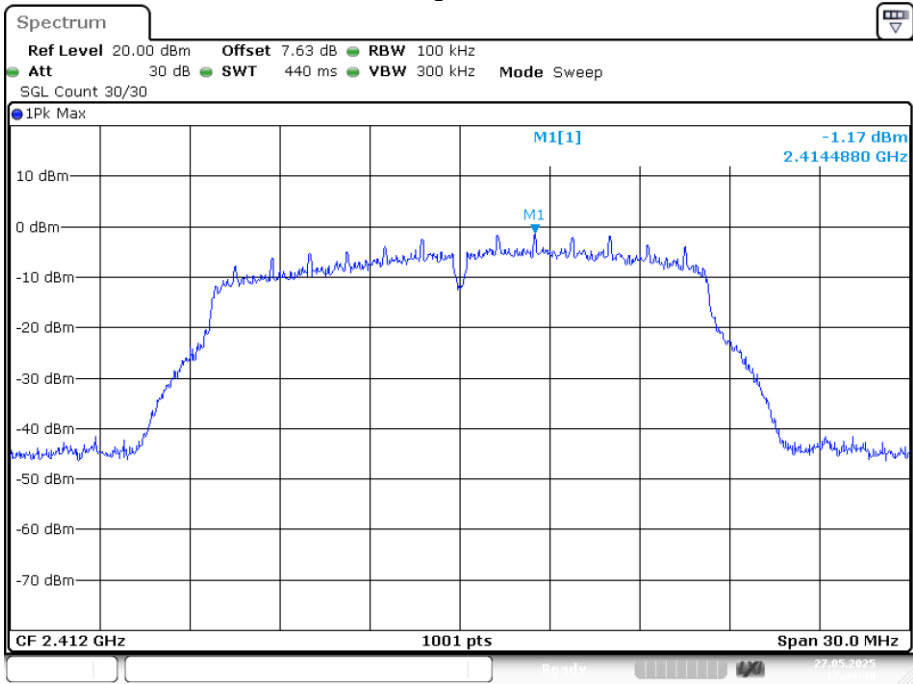
Date: 27.MAY.2025 17:42:07

PSD NVNT b 2462MHz Ant1



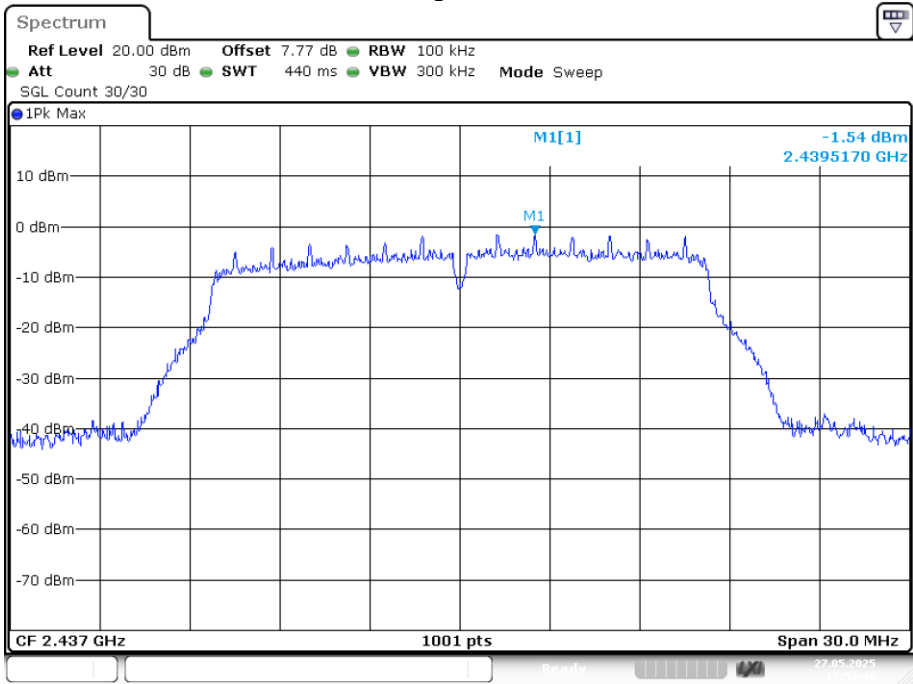
Date: 27.MAY.2025 17:44:29

PSD NVNT g 2412MHz Ant1



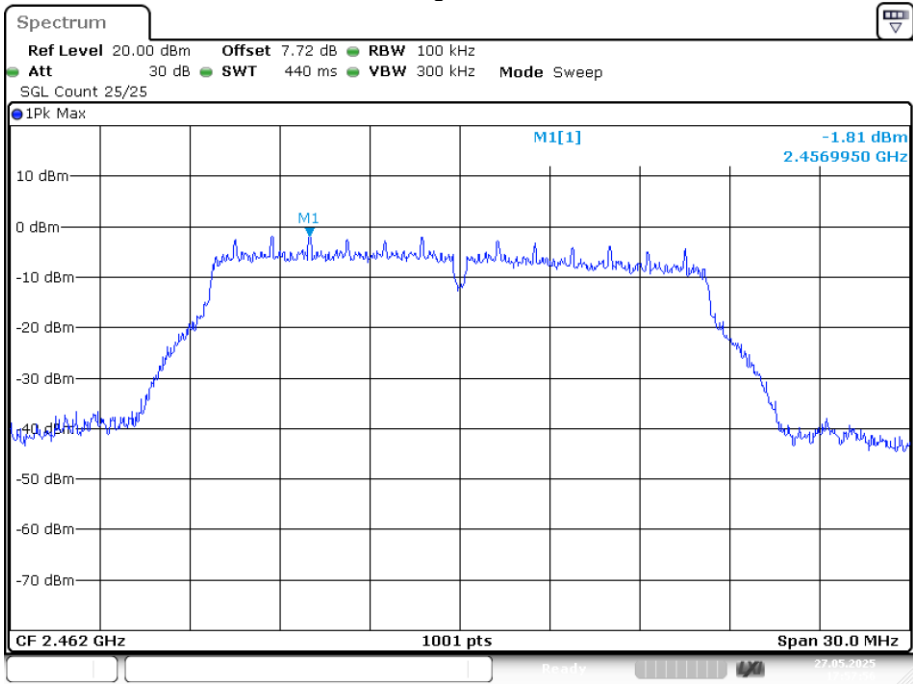
Date: 27.MAY.2025 17:49:41

PSD NVNT g 2437MHz Ant1



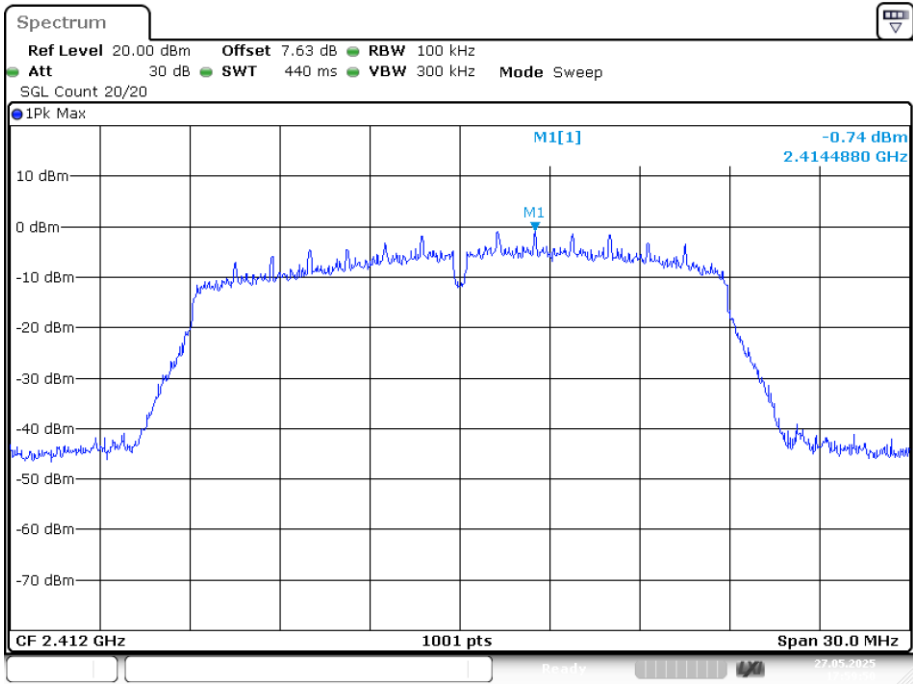
Date: 27.MAY.2025 17:52:48

PSD NVNT g 2462MHz Ant1



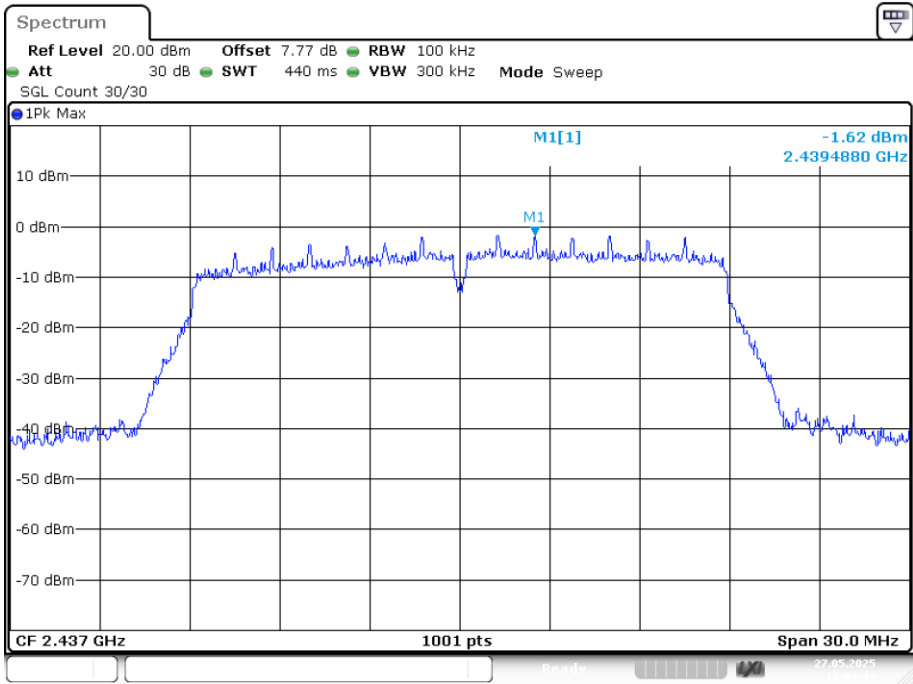
Date: 27.MAY.2025 17:57:56

PSD NVNT n20 2412MHz Ant1



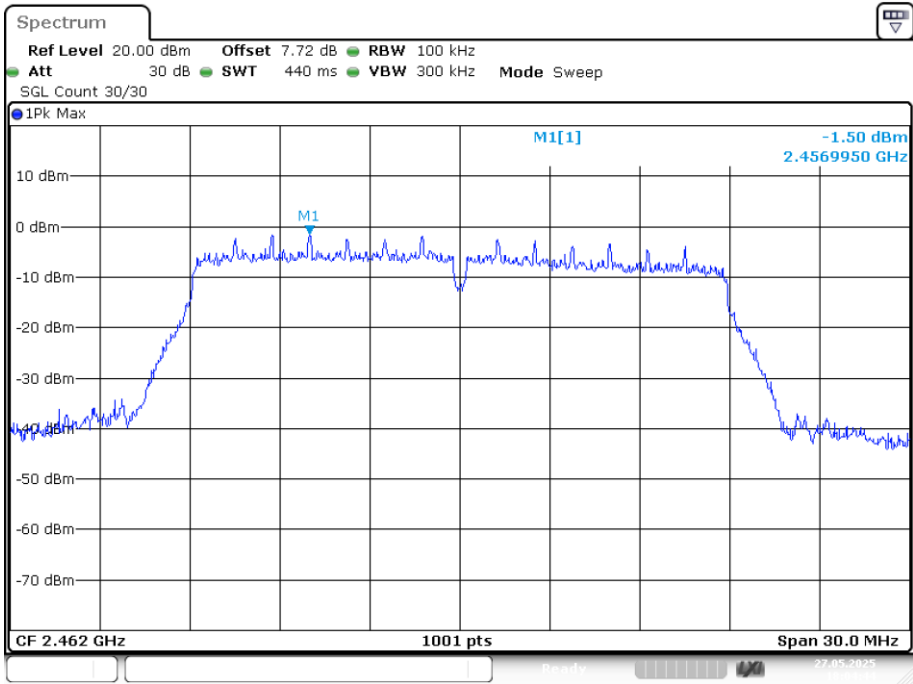
Date: 27.MAY.2025 17:59:51

PSD NVNT n20 2437MHz Ant1



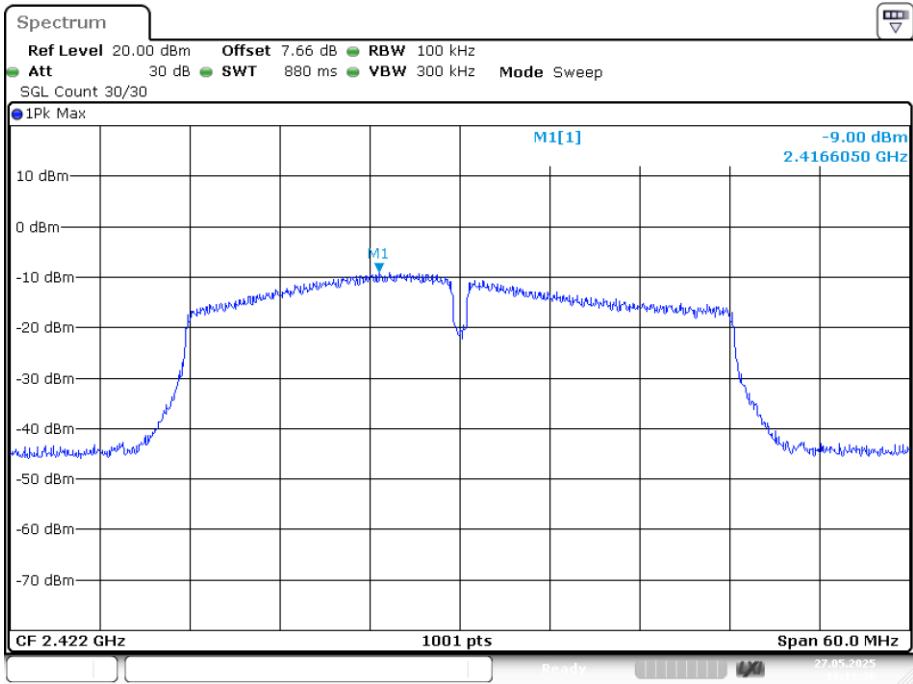
Date: 27.MAY.2025 18:01:44

PSD NVNT n20 2462MHz Ant1



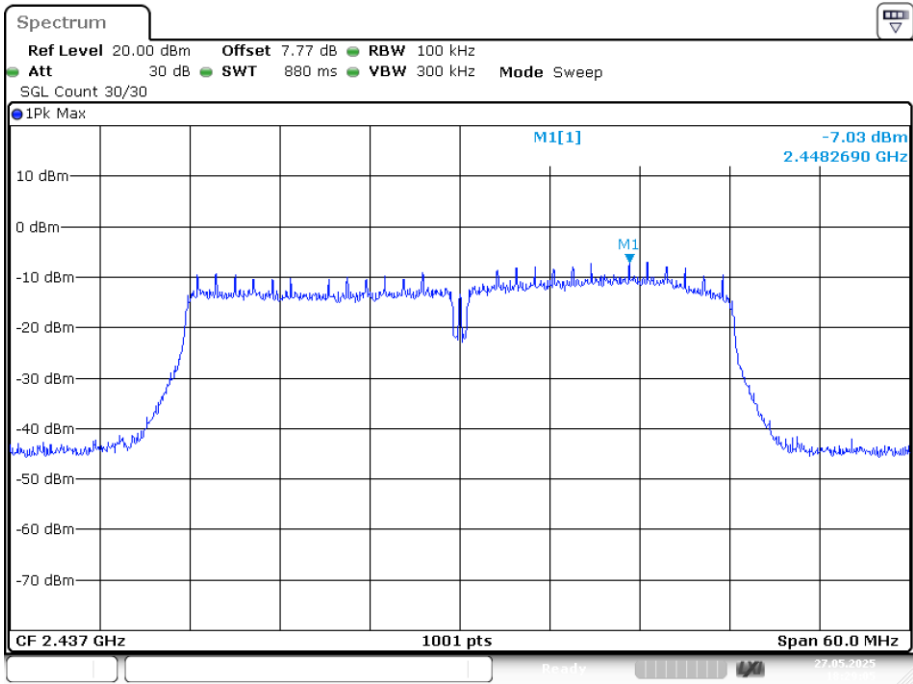
Date: 27.MAY.2025 18:04:44

PSD NVNT n40 2422MHz Ant1



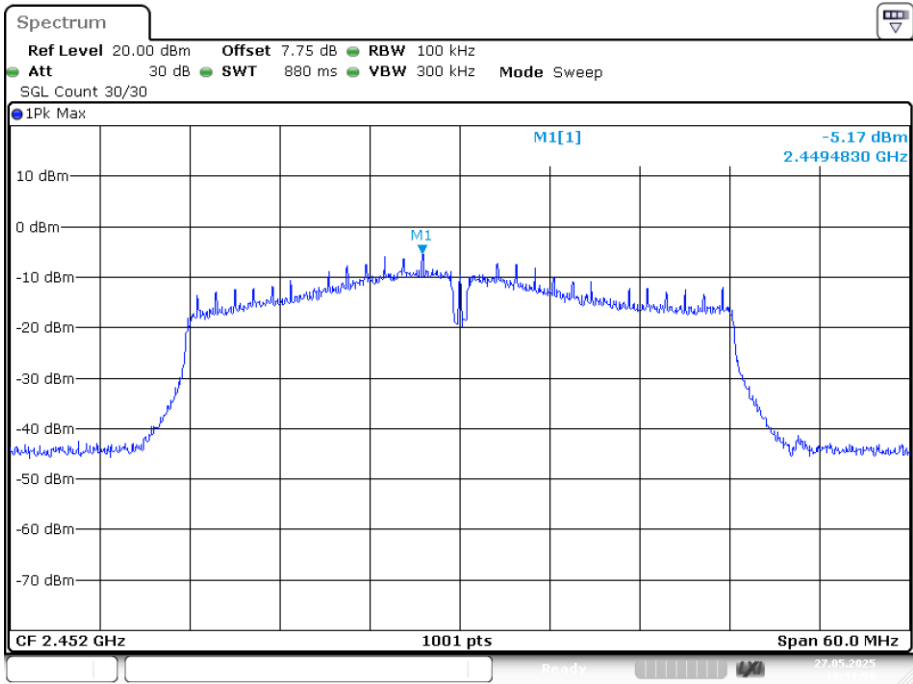
Date: 27.MAY.2025 18:19:30

PSD NVNT n40 2437MHz Ant1



Date: 27.MAY.2025 18:29:06

PSD NVNT n40 2452MHz Ant1



Date: 27.MAY.2025 18:31:50

8. BANDWIDTH

8.1. Test limits

Please refer FCC PART 15: 15.247

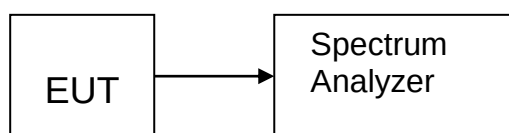
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

8.2. 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 = 100kHz, VBW $\geq$ 3*RBW =300kHz,, Peak Detector, Sweep time set auto, detail see the test plot.

8.3. Test Setup

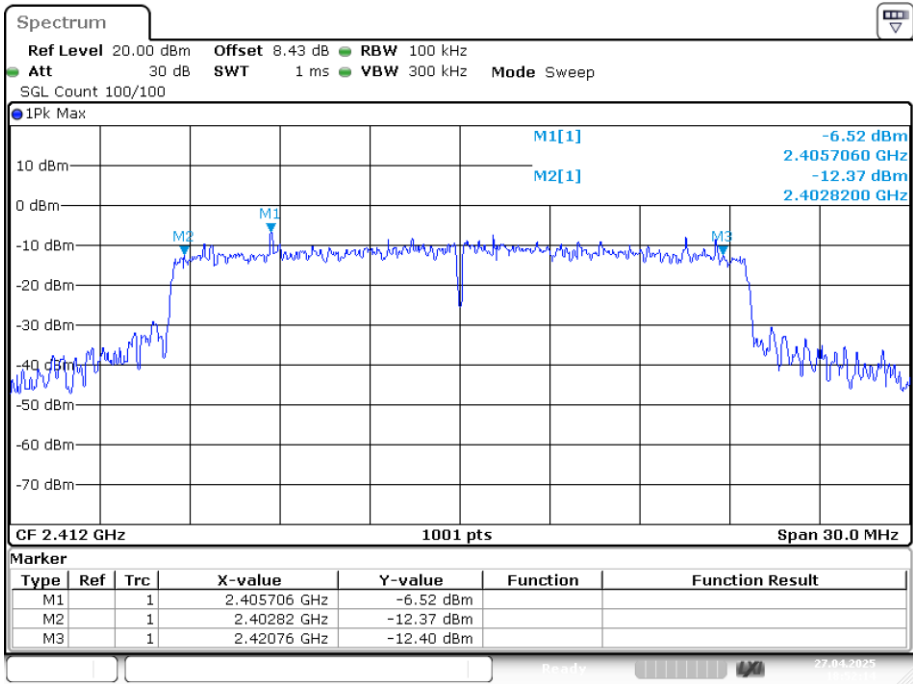


8.4. Test Results

-6dB Bandwidth

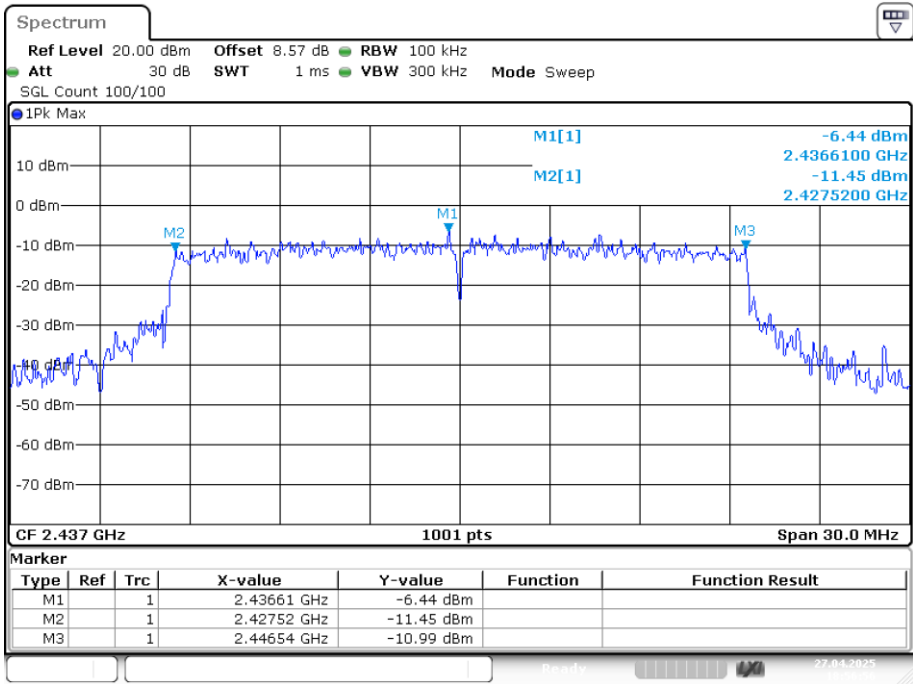
Condition	Mode	Frequency (MHz)	Antenna	-6 db bandwidth (MHz)	Limit -6 db bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant1	17.94	0.5	Pass
NVNT	ax20	2437	Ant1	19.02	0.5	Pass
NVNT	ax20	2462	Ant1	18.99	0.5	Pass
NVNT	ax40	2422	Ant1	36	0.5	Pass
NVNT	ax40	2437	Ant1	36.84	0.5	Pass
NVNT	ax40	2452	Ant1	34.8	0.5	Pass
NVNT	b	2412	Ant1	7.92	0.5	Pass
NVNT	b	2437	Ant1	8.4	0.5	Pass
NVNT	b	2462	Ant1	8.76	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	16.29	0.5	Pass
NVNT	g	2462	Ant1	16.38	0.5	Pass
NVNT	n20	2412	Ant1	16.92	0.5	Pass
NVNT	n20	2437	Ant1	16.92	0.5	Pass
NVNT	n20	2462	Ant1	13.77	0.5	Pass
NVNT	n40	2422	Ant1	36.12	0.5	Pass
NVNT	n40	2437	Ant1	36.42	0.5	Pass
NVNT	n40	2452	Ant1	27.06	0.5	Pass

-6dB Bandwidth NVNT ax20 2412MHz Ant1



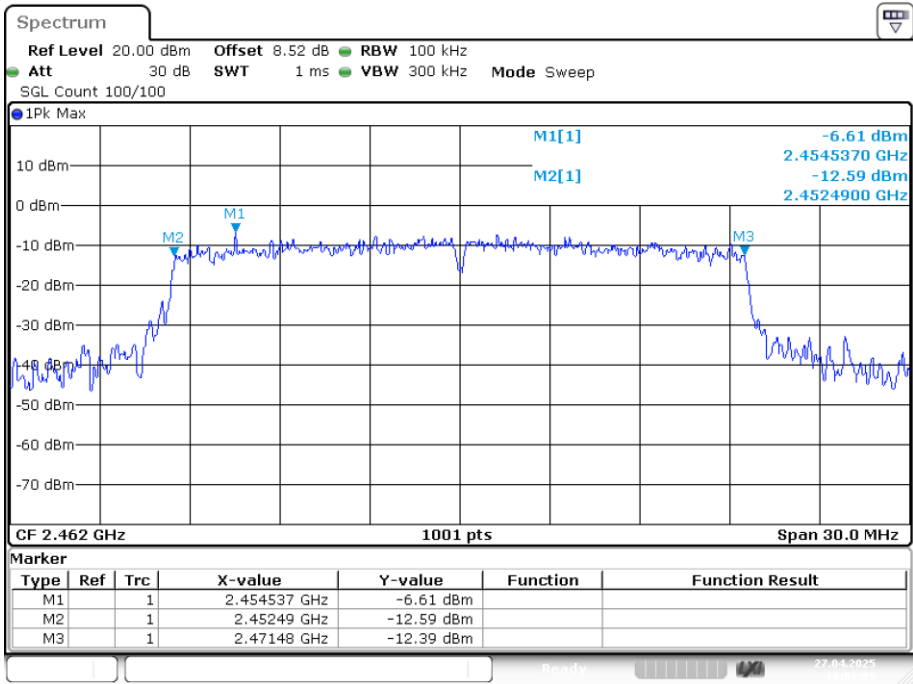
Date: 27.APR.2025 18:52:13

-6dB Bandwidth NVNT ax20 2437MHz Ant1



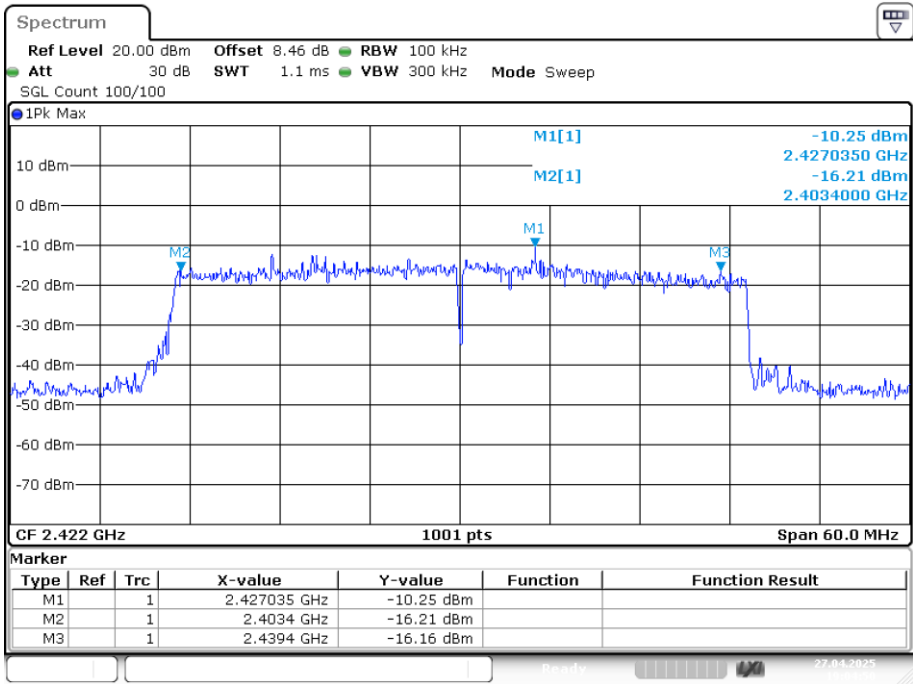
Date: 27.APR.2025 18:56:56

-6dB Bandwidth NVNT ax20 2462MHz Ant1



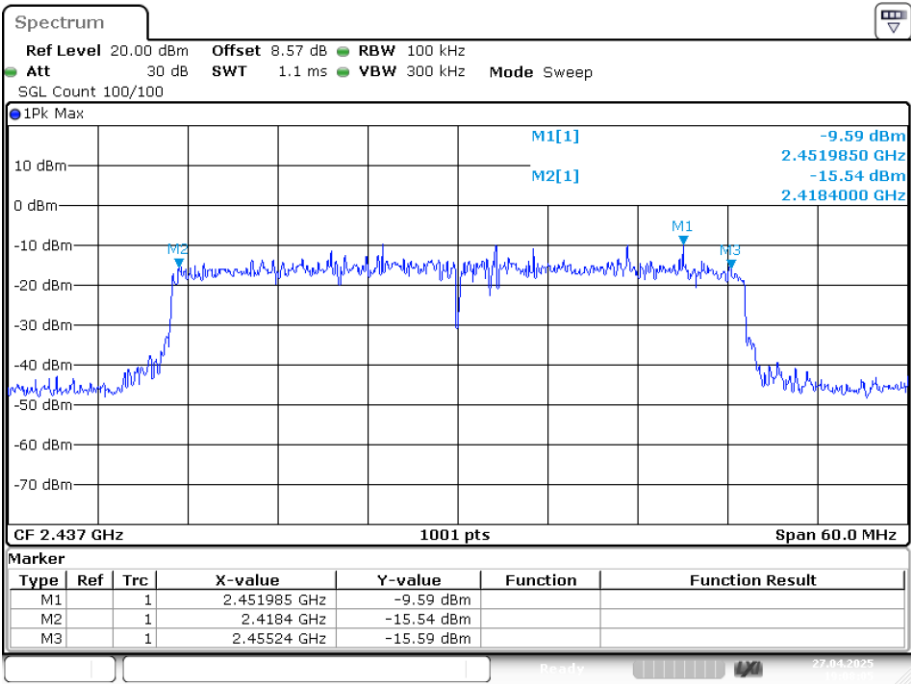
Date: 27.APR.2025 19:02:09

-6dB Bandwidth NVNT ax40 2422MHz Ant1



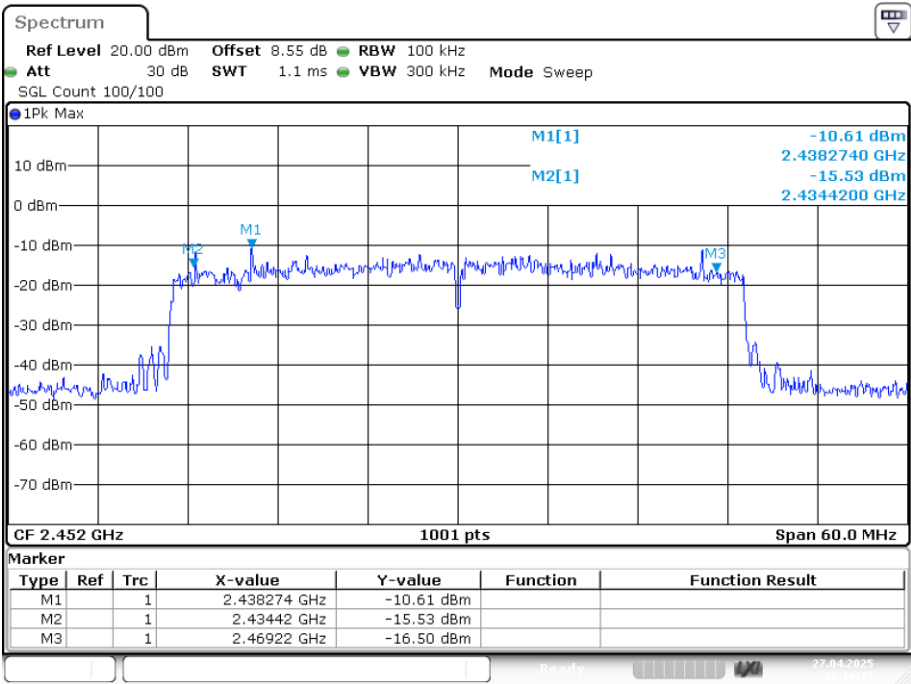
Date: 27.APR.2025 19:04:50

-6dB Bandwidth NVNT ax40 2437MHz Ant1



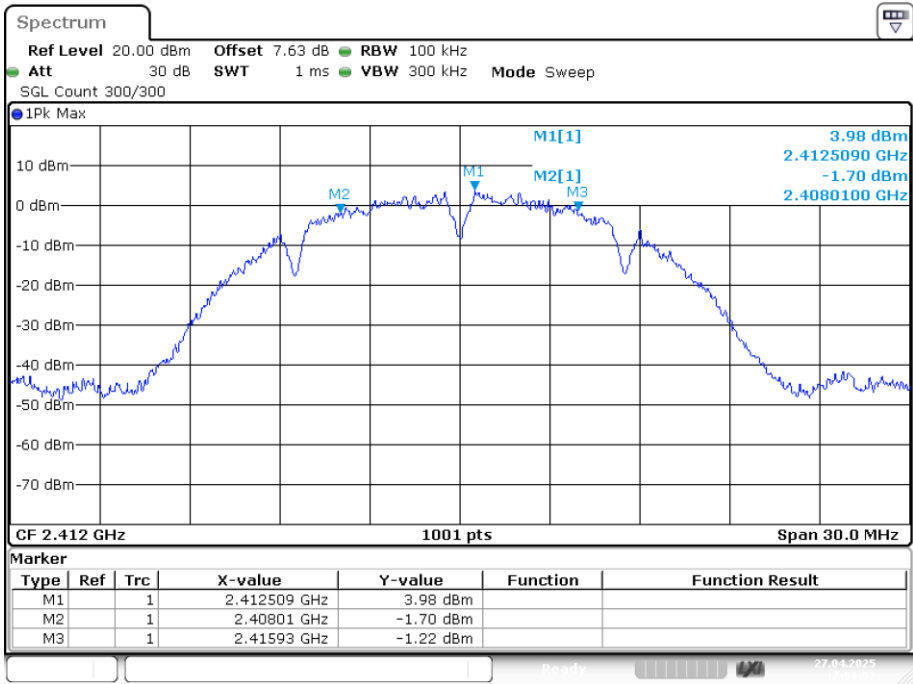
Date: 27.APR.2025 19:08:05

-6dB Bandwidth NVNT ax40 2452MHz Ant1



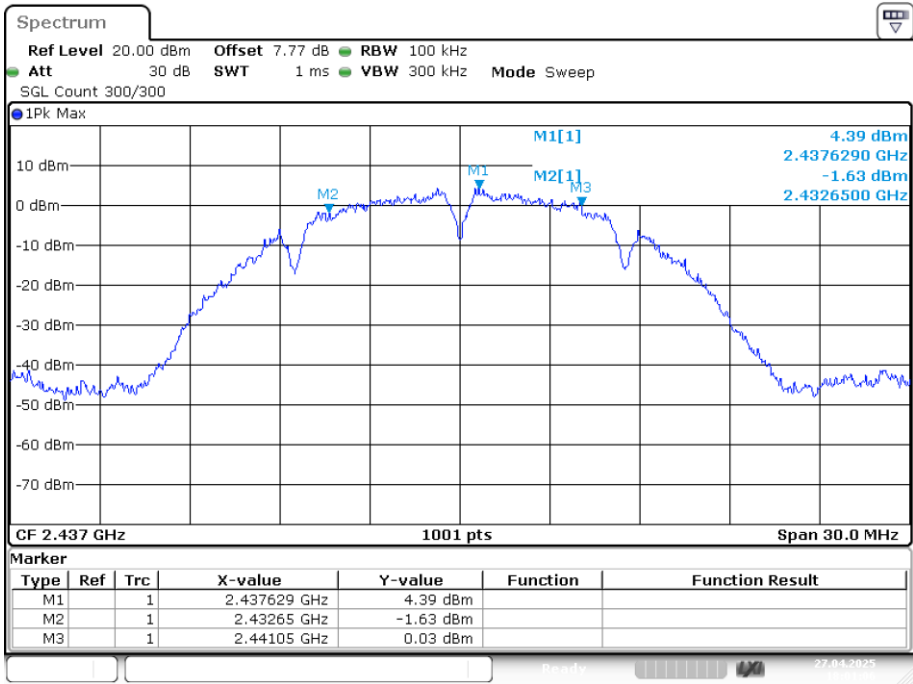
Date: 27.APR.2025 19:10:17

-6dB Bandwidth NVNT b 2412MHz Ant1



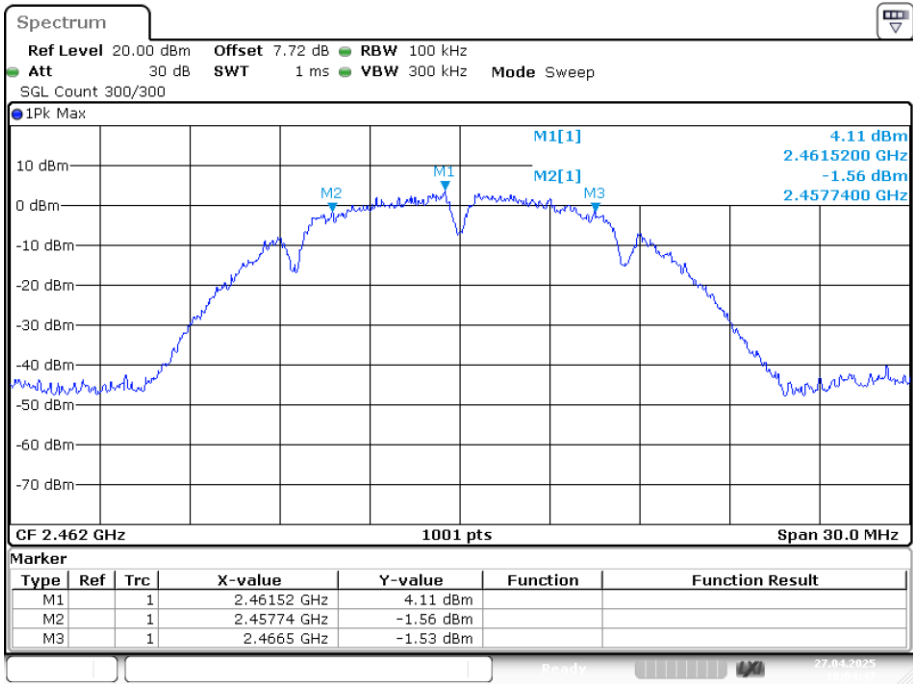
Date: 27.APR.2025 17:56:52

-6dB Bandwidth NVNT b 2437MHz Ant1



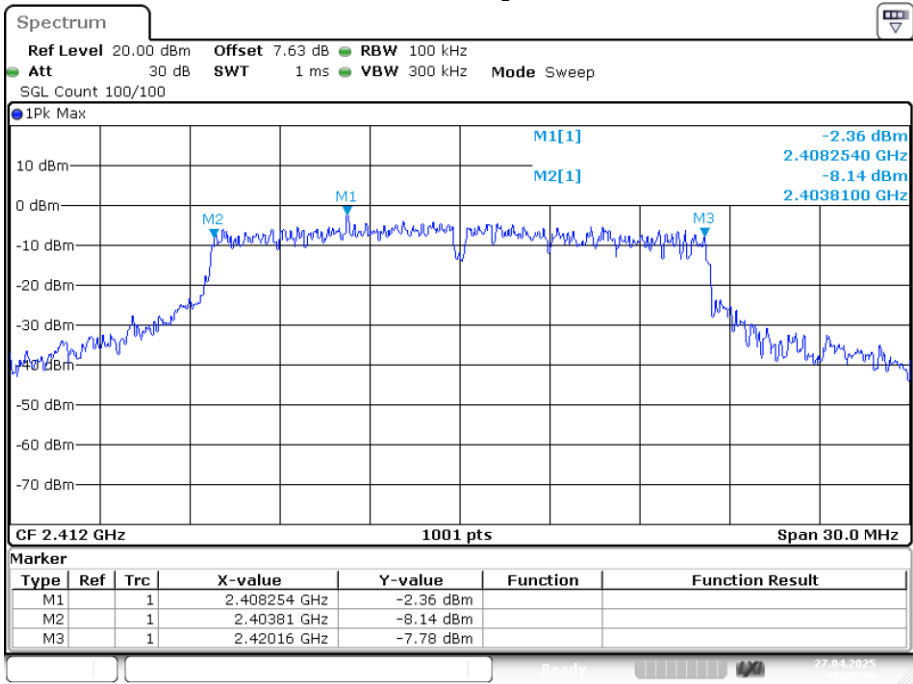
Date: 27.APR.2025 18:01:05

-6dB Bandwidth NVNT b 2462MHz Ant1



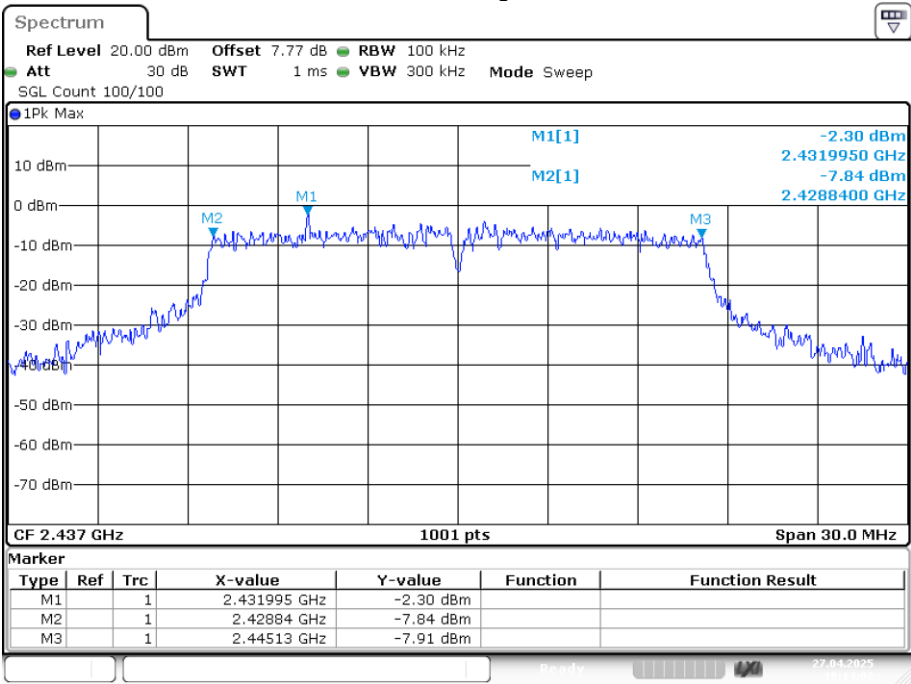
Date: 27.APR.2025 18:04:47

-6dB Bandwidth NVNT g 2412MHz Ant1



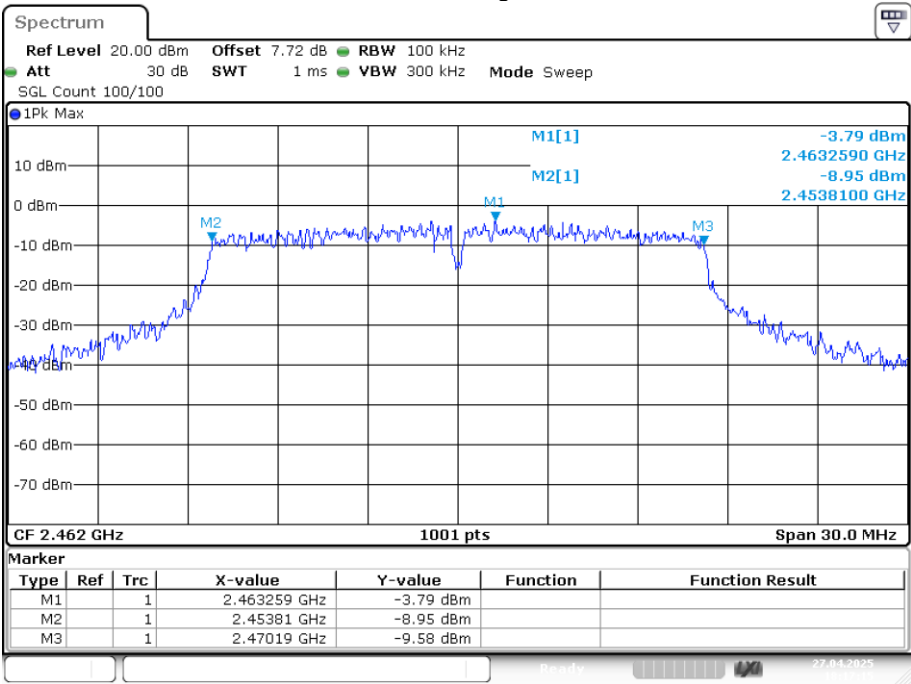
Date: 27.APR.2025 18:08:40

-6dB Bandwidth NVNT g 2437MHz Ant1



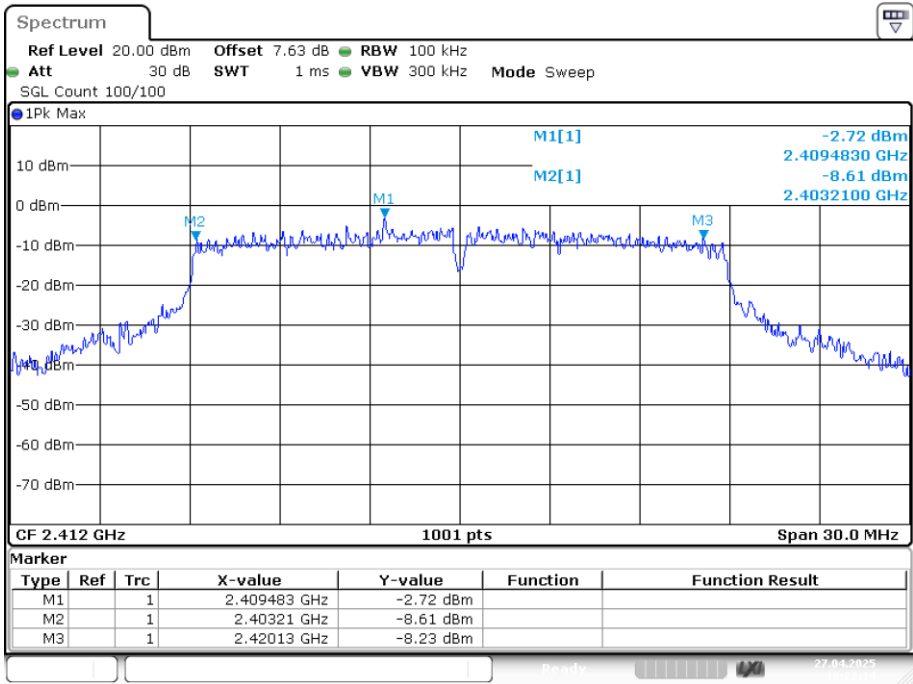
Date: 27.APR.2025 18:14:02

-6dB Bandwidth NVNT g 2462MHz Ant1



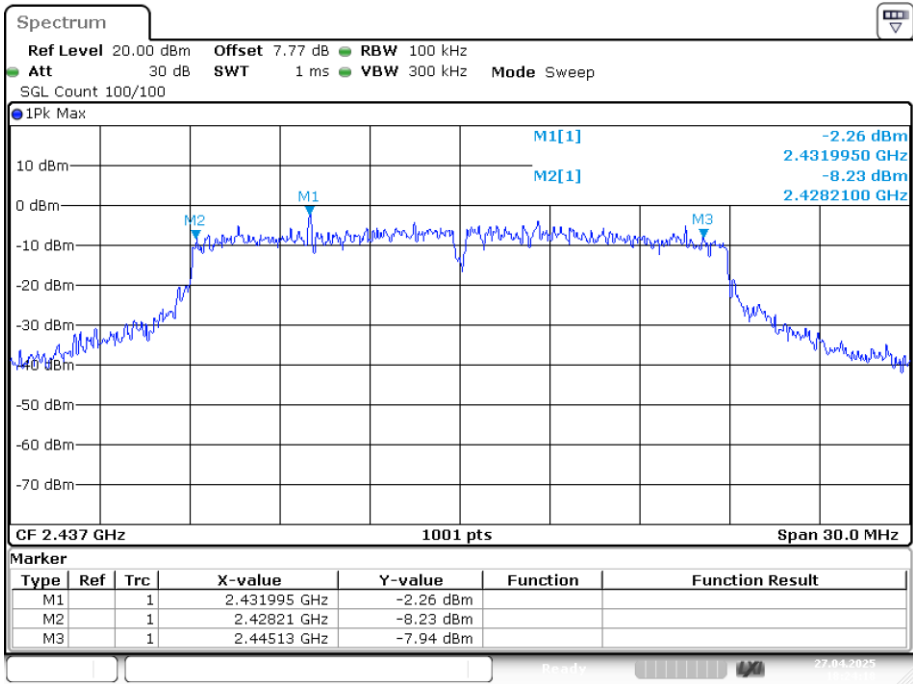
Date: 27.APR.2025 18:17:15

-6dB Bandwidth NVNT n20 2412MHz Ant1



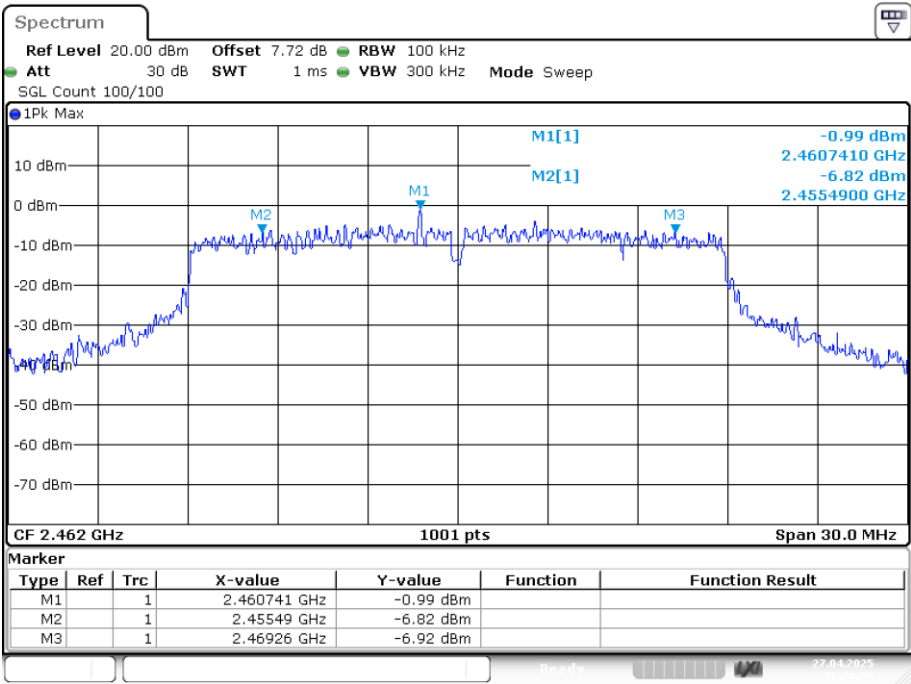
Date: 27.APR.2025 18:22:14

-6dB Bandwidth NVNT n20 2437MHz Ant1



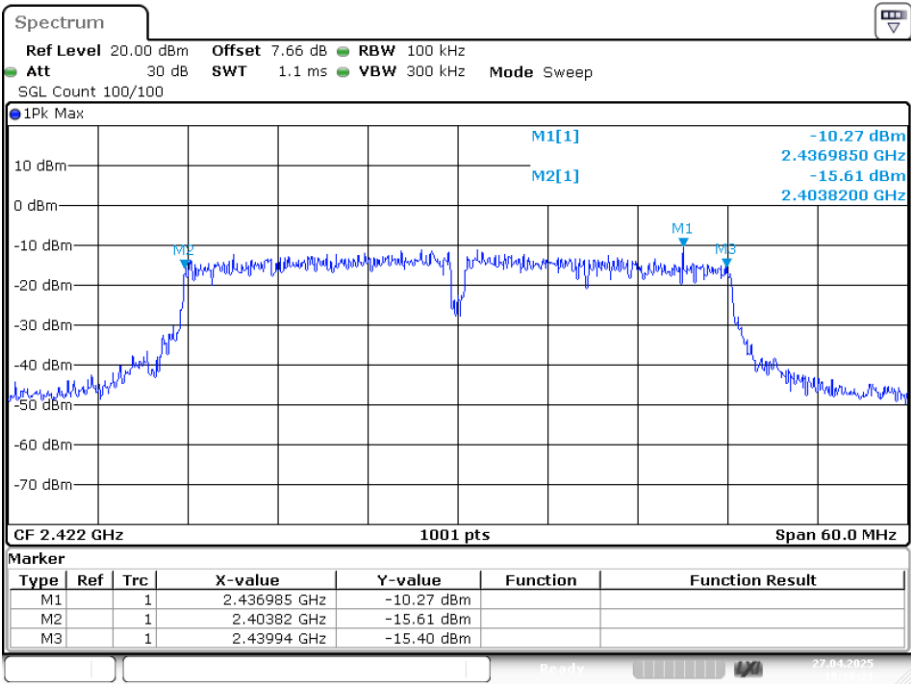
Date: 27.APR.2025 18:24:18

-6dB Bandwidth NVNT n20 2462MHz Ant1



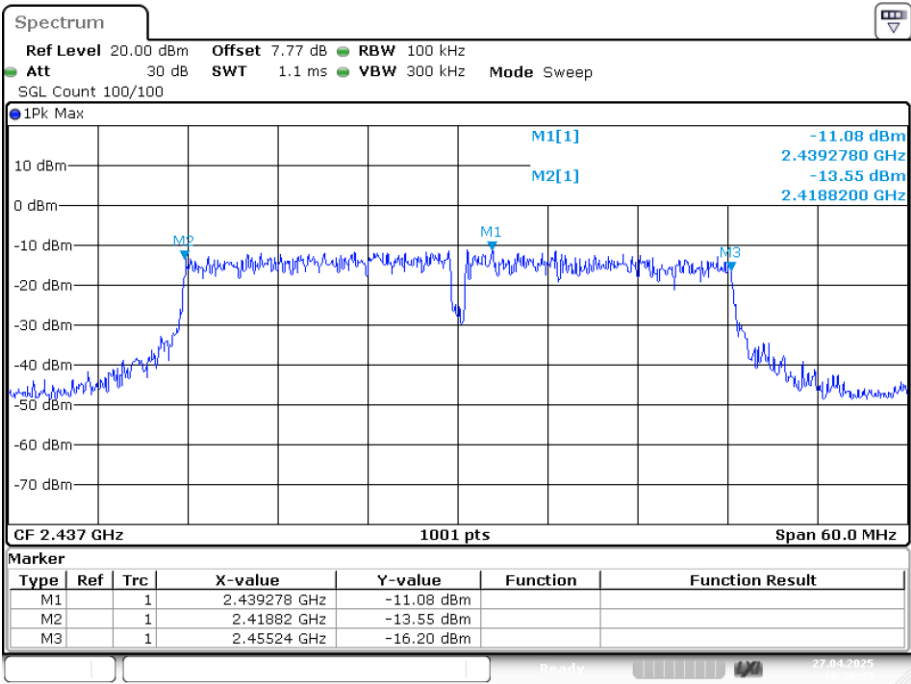
Date: 27.APR.2025 18:28:06

-6dB Bandwidth NVNT n40 2422MHz Ant1



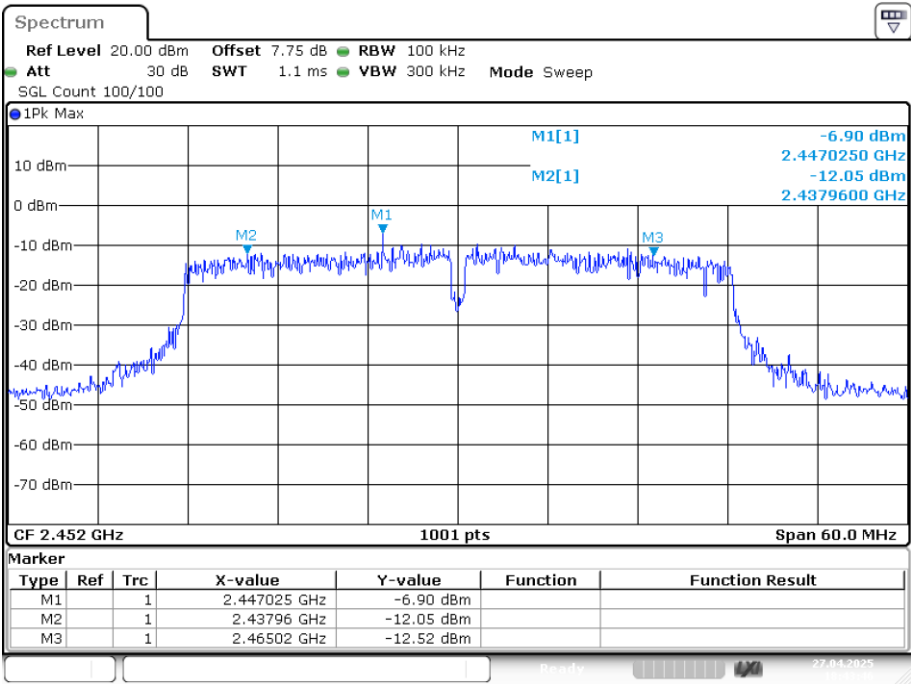
Date: 27.APR.2025 18:36:20

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 27.APR.2025 18:38:35

-6dB Bandwidth NVNT n40 2452MHz Ant1

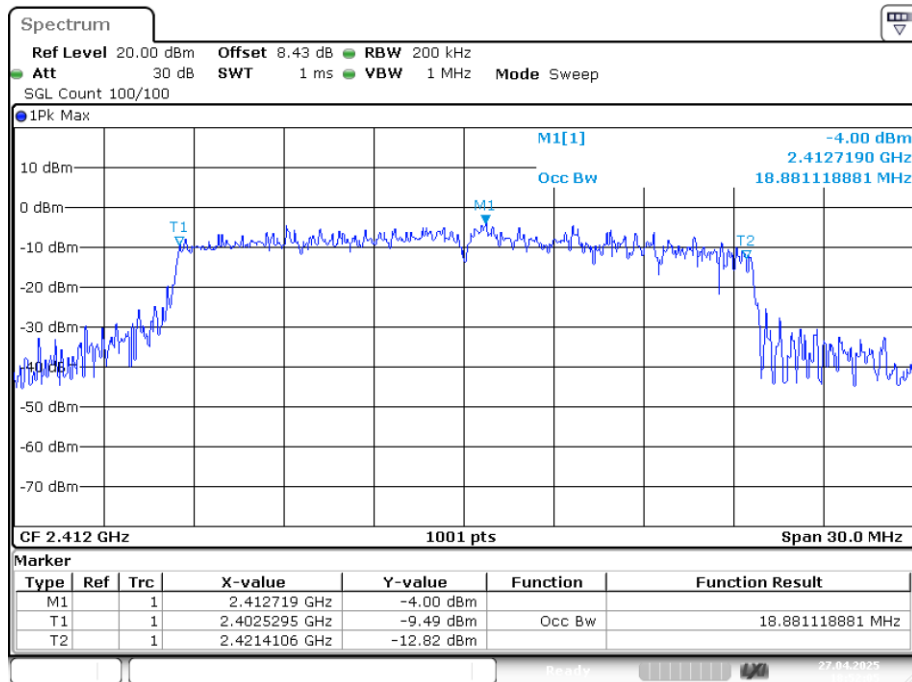


Date: 27.APR.2025 18:43:46

Occupied Channel Bandwidth

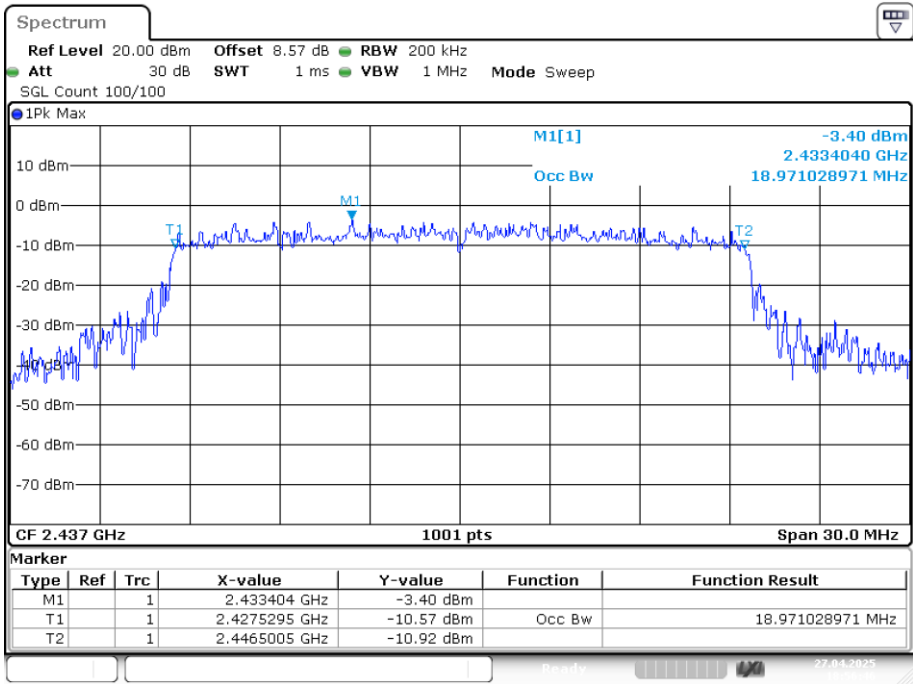
Condition	Mode	Frequency (MHz)	Antenna	99% ObW (MHz)
NVNT	ax20	2412	Ant1	18.881
NVNT	ax20	2437	Ant1	18.971
NVNT	ax20	2462	Ant1	18.881
NVNT	ax40	2422	Ant1	37.822
NVNT	ax40	2437	Ant1	37.702
NVNT	ax40	2452	Ant1	37.702
NVNT	b	2412	Ant1	13.127
NVNT	b	2437	Ant1	13.097
NVNT	b	2462	Ant1	13.067
NVNT	g	2412	Ant1	16.513
NVNT	g	2437	Ant1	16.633
NVNT	g	2462	Ant1	16.573
NVNT	n20	2412	Ant1	17.682
NVNT	n20	2437	Ant1	17.742
NVNT	n20	2462	Ant1	17.712
NVNT	n40	2422	Ant1	36.204
NVNT	n40	2437	Ant1	36.264
NVNT	n40	2452	Ant1	36.204

OBW NVNT ax20 2412MHz Ant1



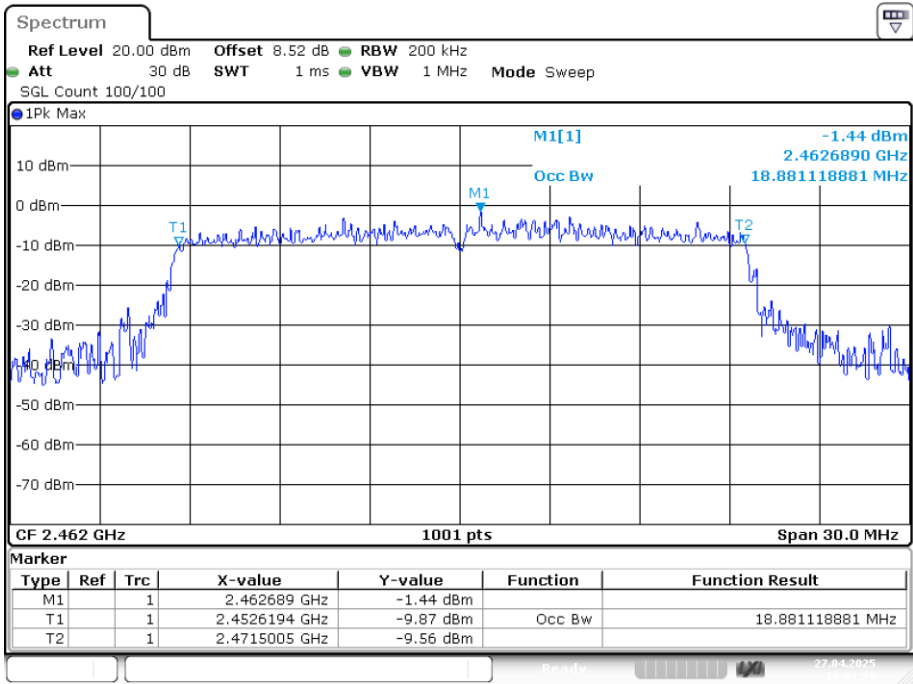
Date: 27.APR.2025 18:52:04

OBW NVNT ax20 2437MHz Ant1



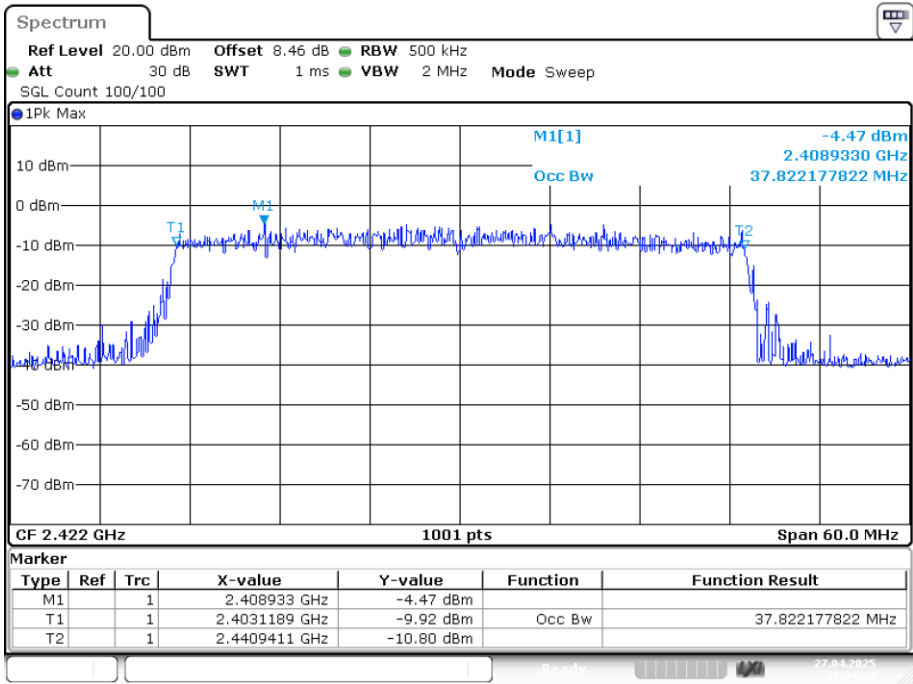
Date: 27.APR.2025 18:56:46

OBW NVNT ax20 2462MHz Ant1



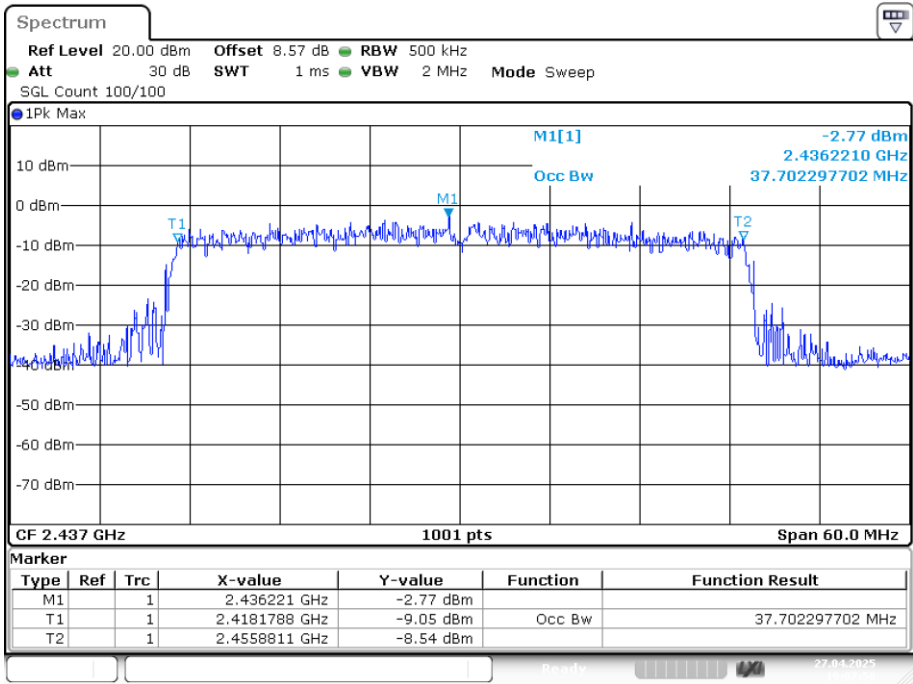
Date: 27.APR.2025 19:01:58

OBW NVNT ax40 2422MHz Ant1



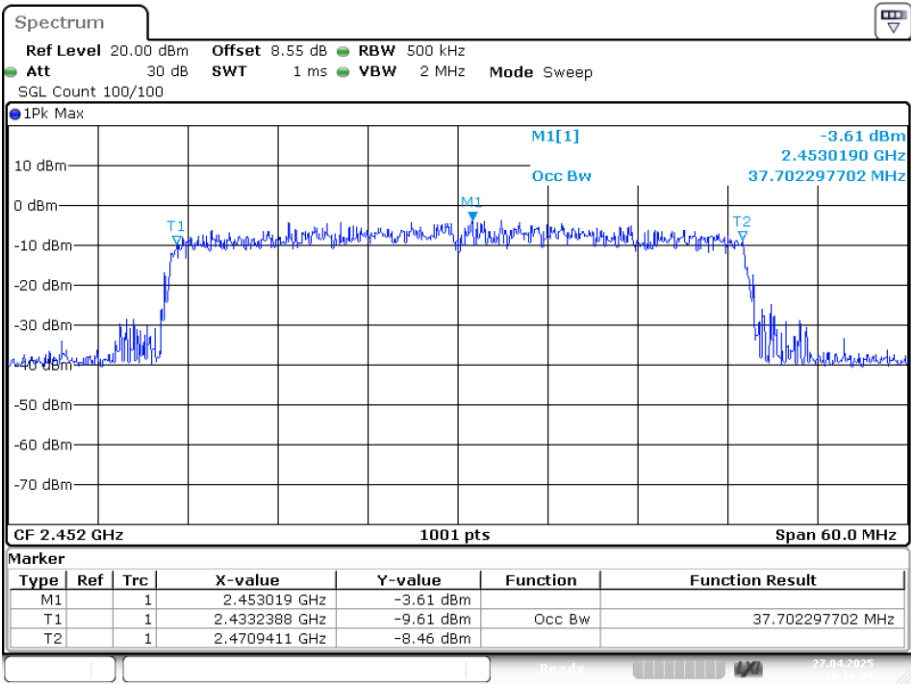
Date: 27.APR.2025 19:04:42

OBW NVNT ax40 2437MHz Ant1



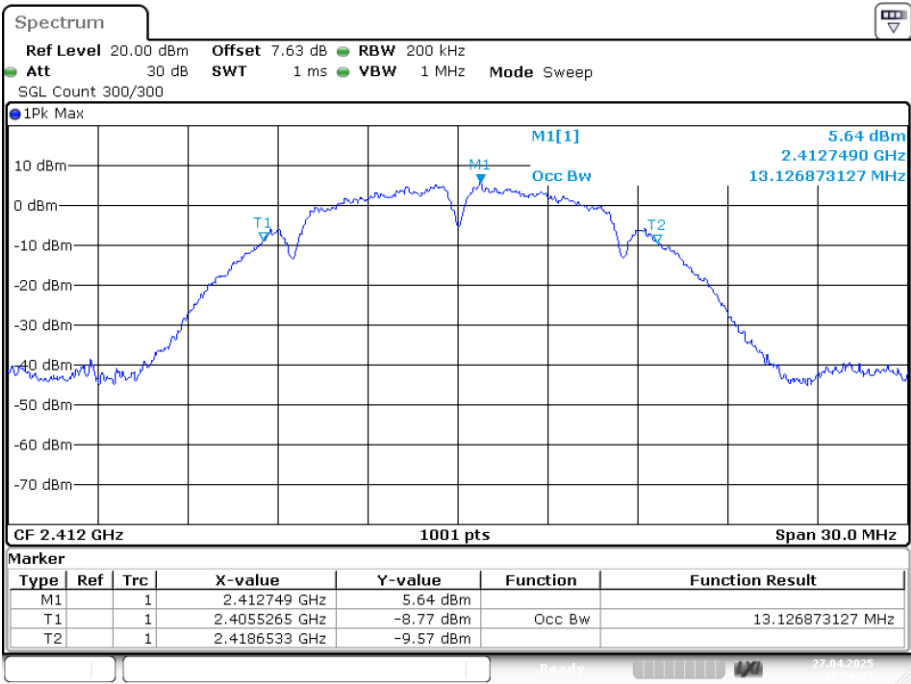
Date: 27.APR.2025 19:07:58

OBW NVNT ax40 2452MHz Ant1



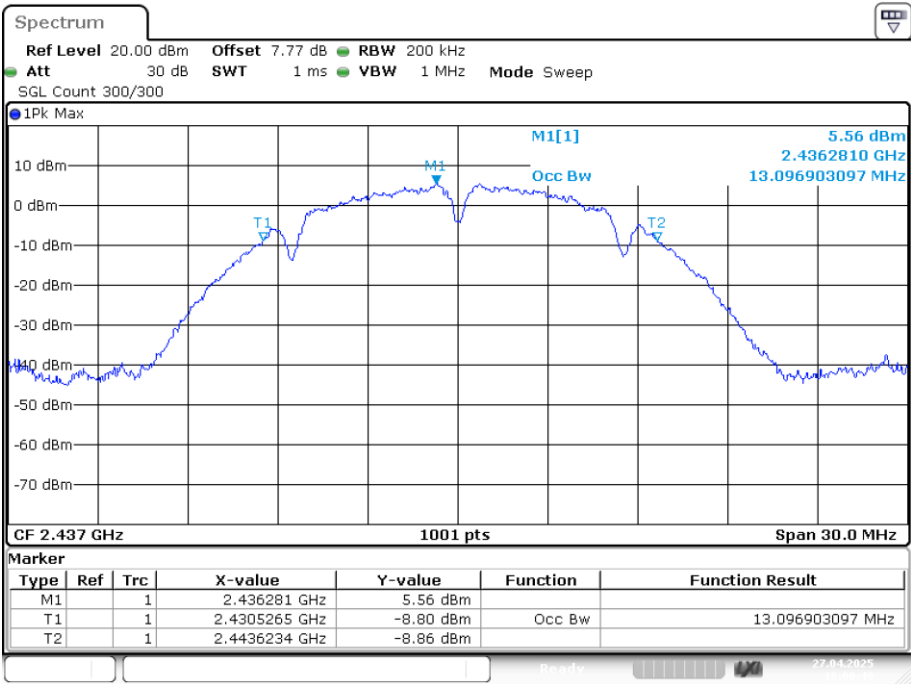
Date: 27.APR.2025 19:10:09

OBW NVNT b 2412MHz Ant1



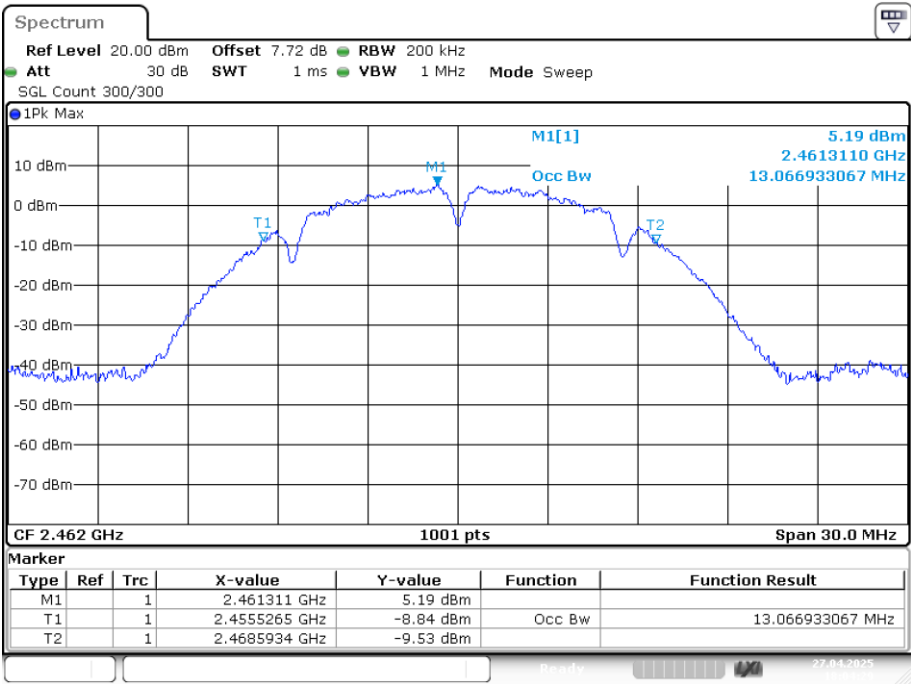
Date: 27.APR.2025 17:56:35

OBW NVNT b 2437MHz Ant1



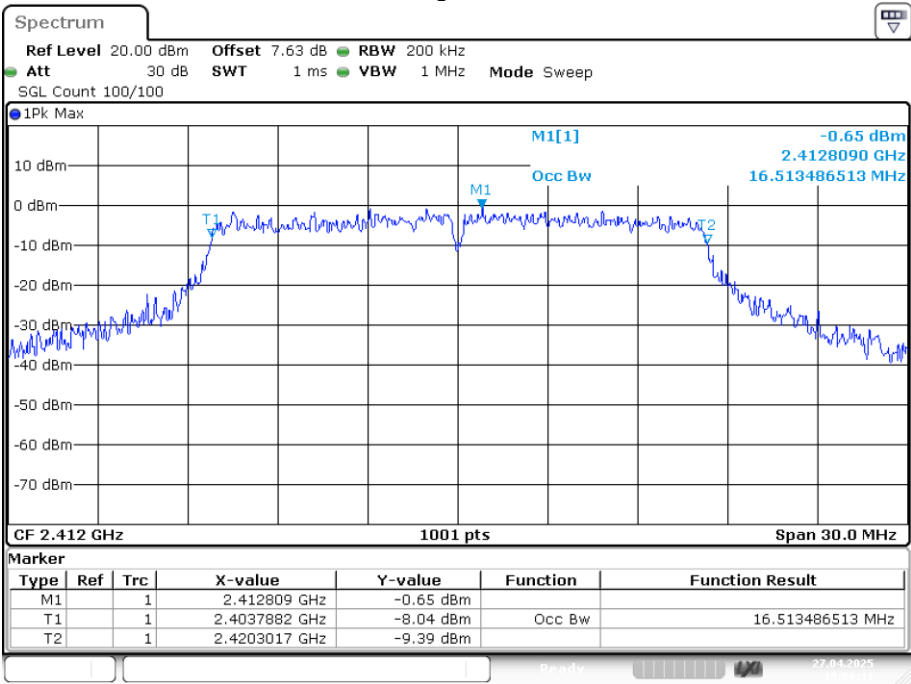
Date: 27.APR.2025 18:00:50

OBW NVNT b 2462MHz Ant1



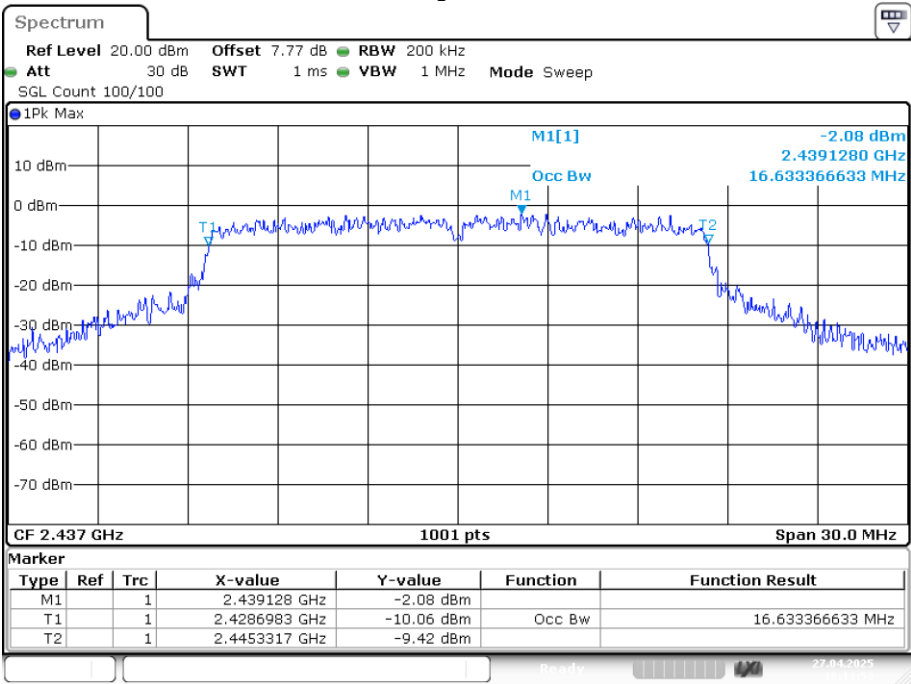
Date: 27.APR.2025 18:04:29

OBW NVNT g 2412MHz Ant1



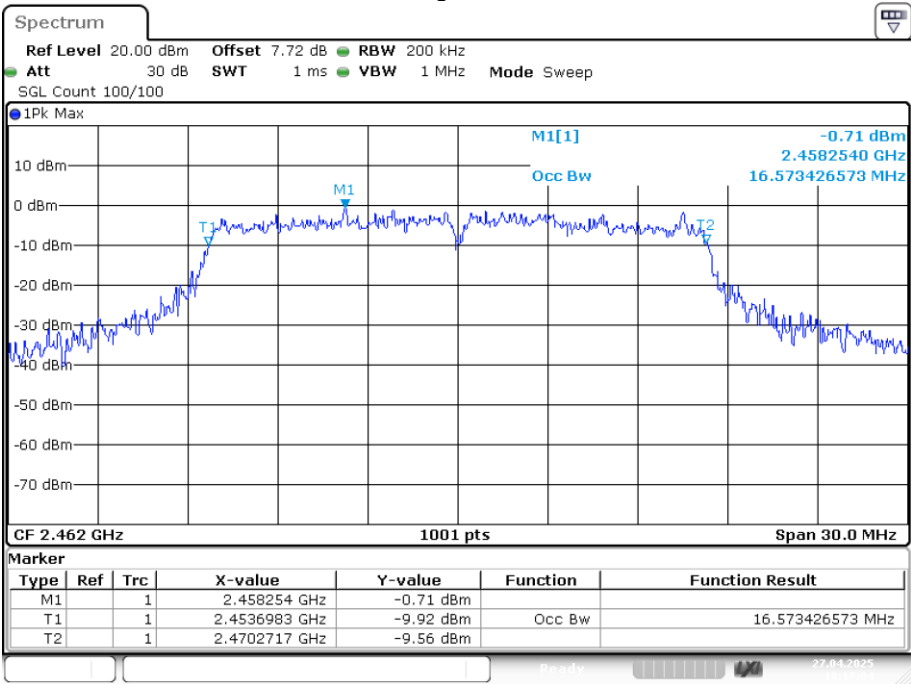
Date: 27.APR.2025 18:08:30

OBW NVNT g 2437MHz Ant1



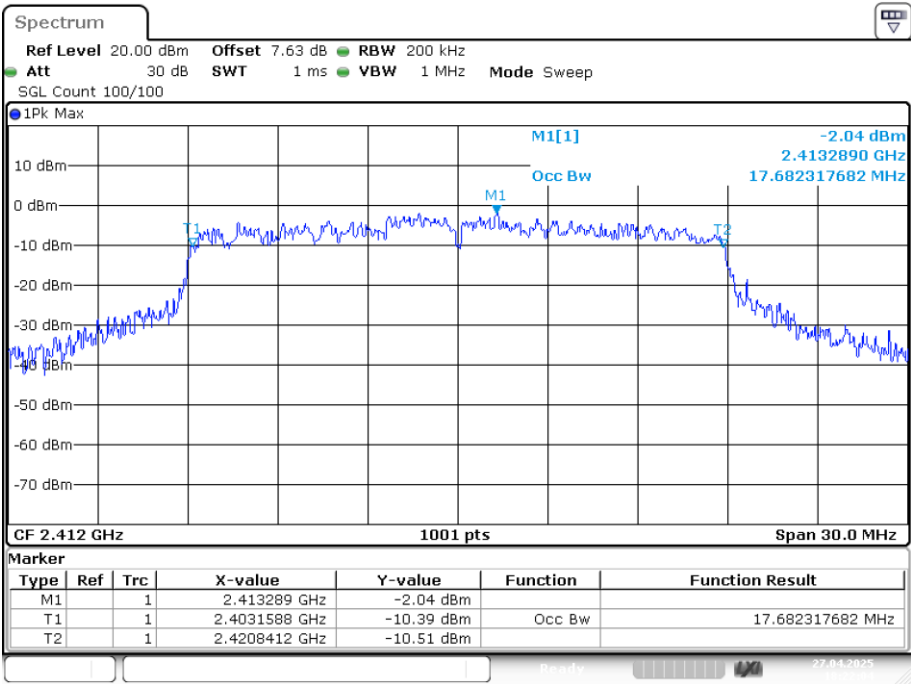
Date: 27.APR.2025 18:13:52

OBW NVNT g 2462MHz Ant1



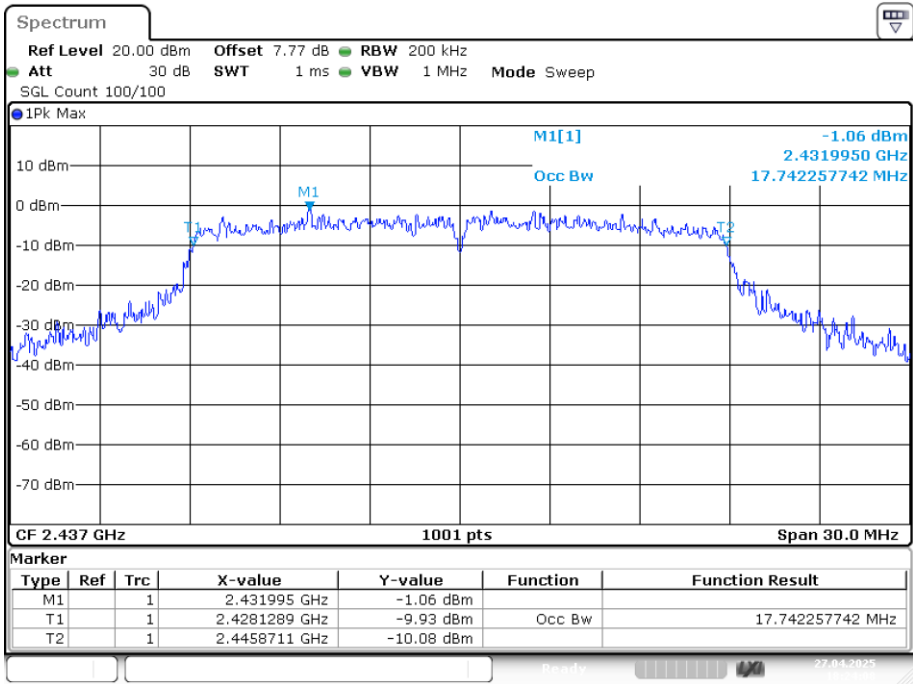
Date: 27.APR.2025 18:17:04

OBW NVNT n20 2412MHz Ant1



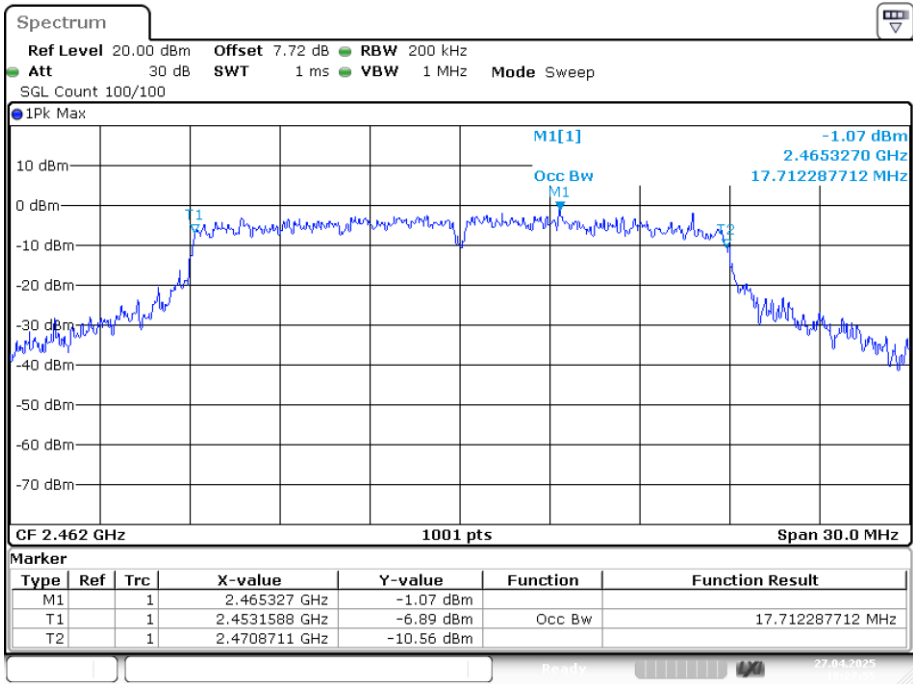
Date: 27.APR.2025 18:22:04

OBW NVNT n20 2437MHz Ant1



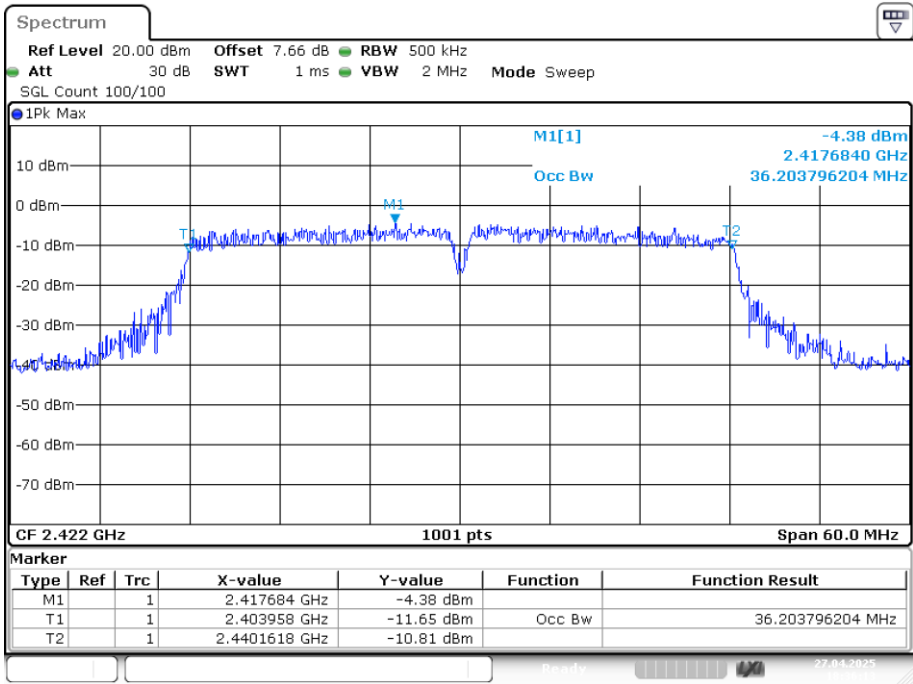
Date: 27.APR.2025 18:24:08

OBW NVNT n20 2462MHz Ant1



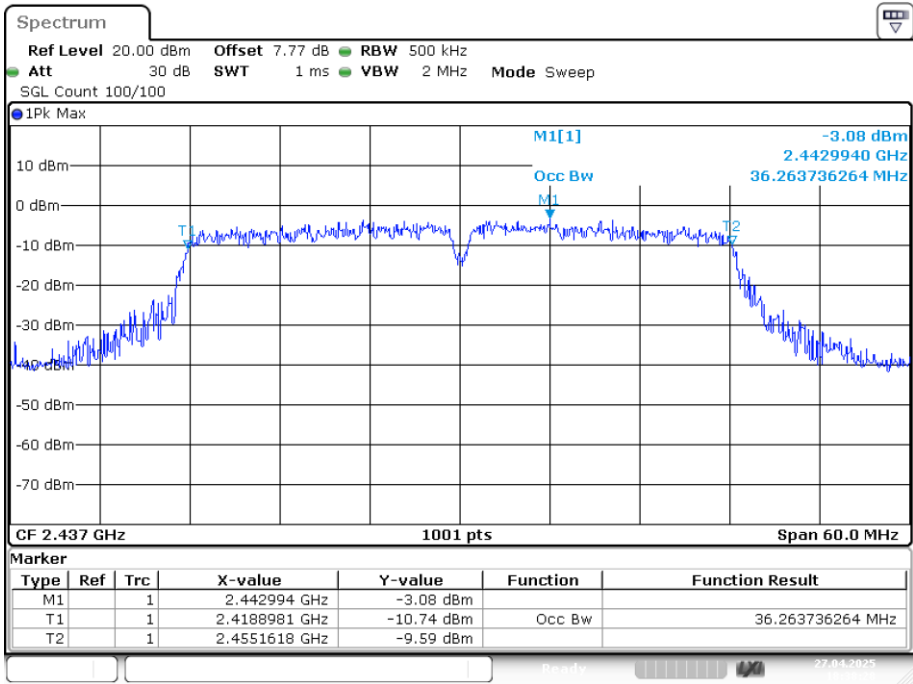
Date: 27.APR.2025 18:27:55

OBW NVNT n40 2422MHz Ant1



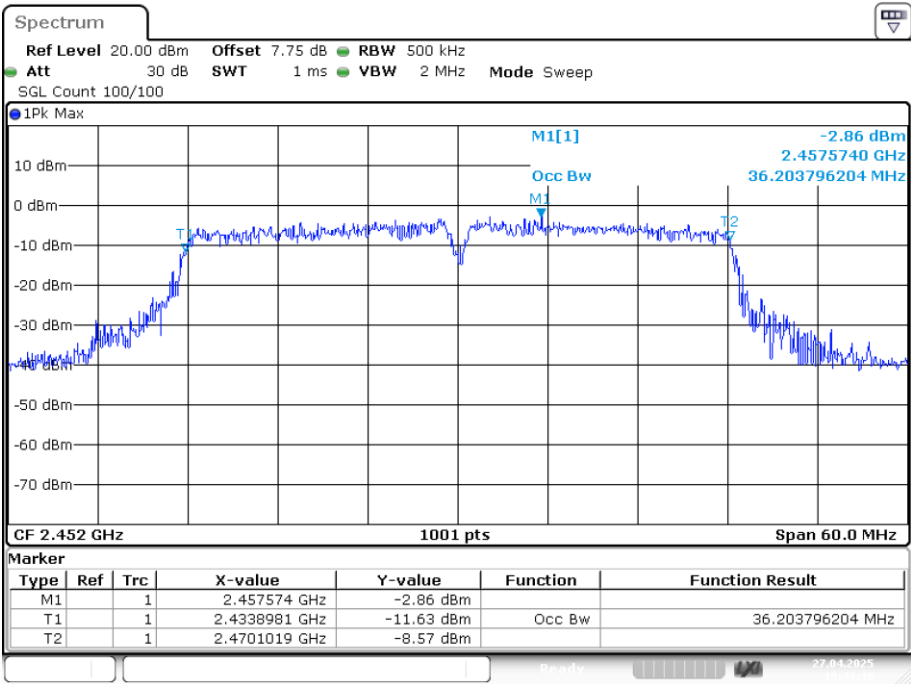
Date: 27.APR.2025 18:36:12

OBW NVNT n40 2437MHz Ant1



Date: 27.APR.2025 18:38:28

OBW NVNT n40 2452MHz Ant1



Date: 27.APR.2025 18:43:38

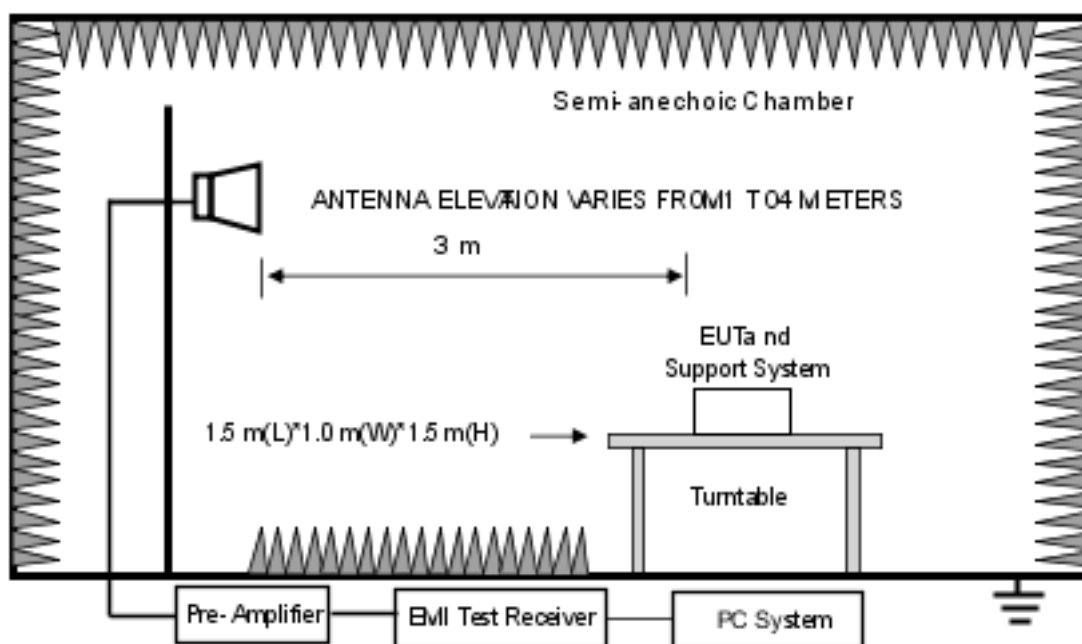
9. BAND EDGE CHECK

9.1. 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 and RSS-GEN limits.

9.2. Block diagram of test setup



9.3. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

9.3.1 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

9.3.2 Check the spurious emissions out of band.

9.3.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

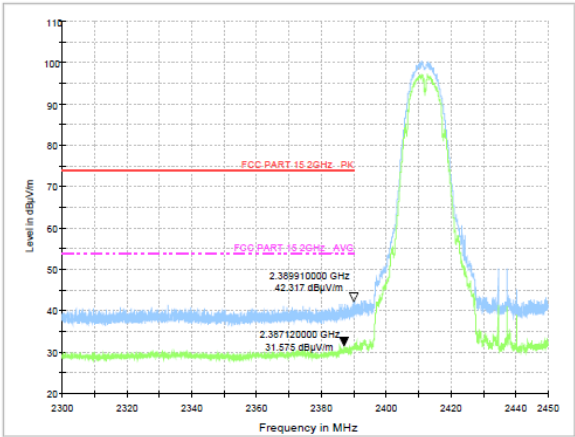
All restriction band and non- restriction band have been tested, only worse case is reported.

9.4. Test Results

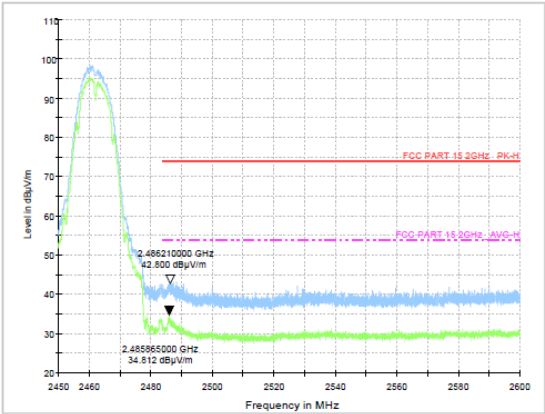
PASS.

Detailed information please see the following page.

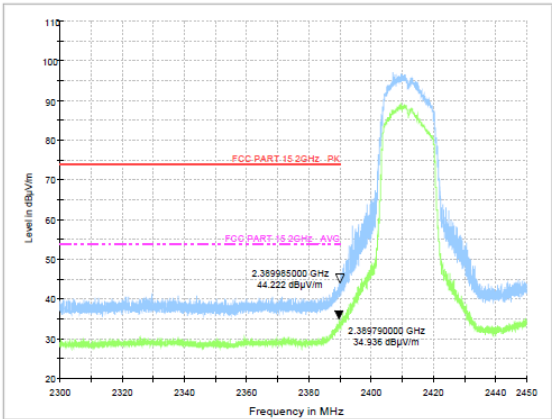
Test Mode: IEEE 802.11b-Low



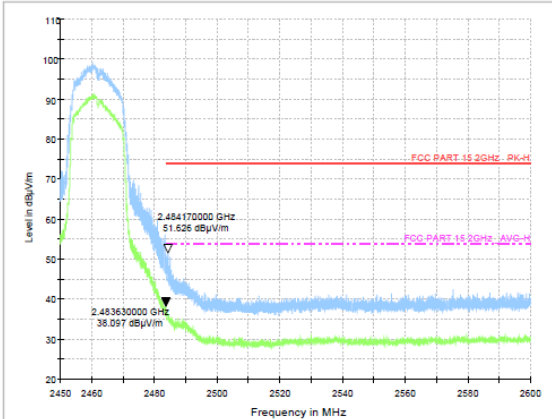
Test Mode: IEEE 802.11b-High



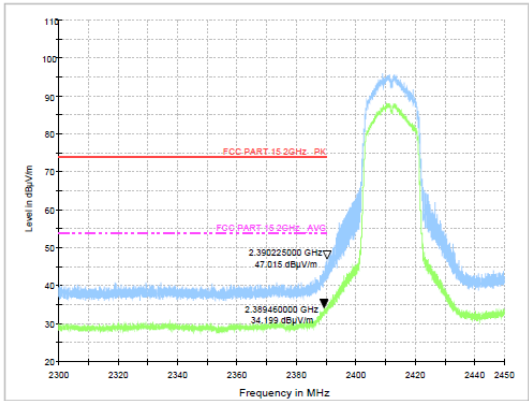
Test Mode: IEEE 802.11g-Low



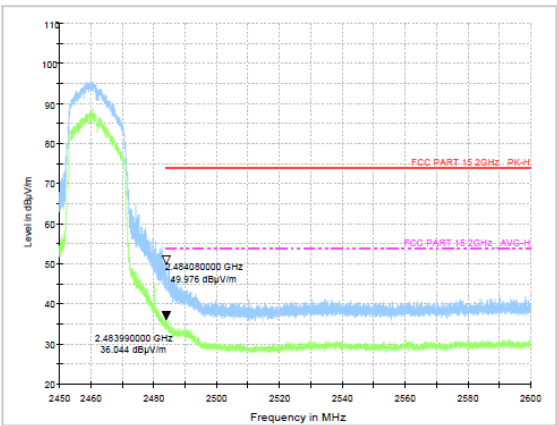
Test Mode: IEEE 802.11g-High



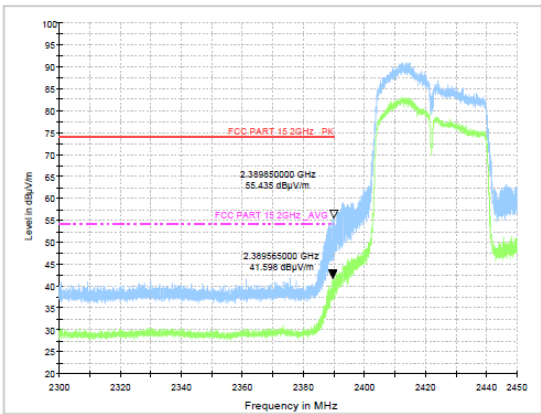
Test Mode: IEEE 802.11n20-Low



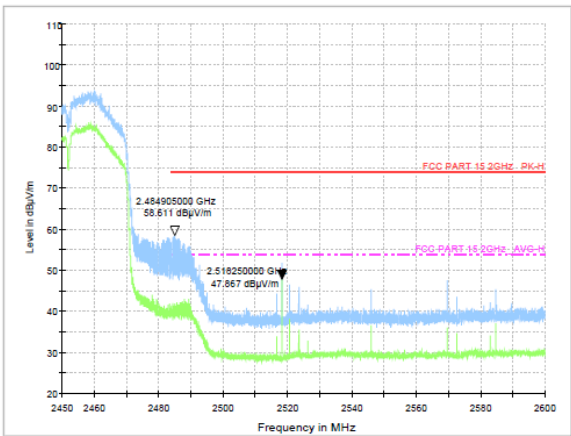
Test Mode: IEEE 802.11n20-High



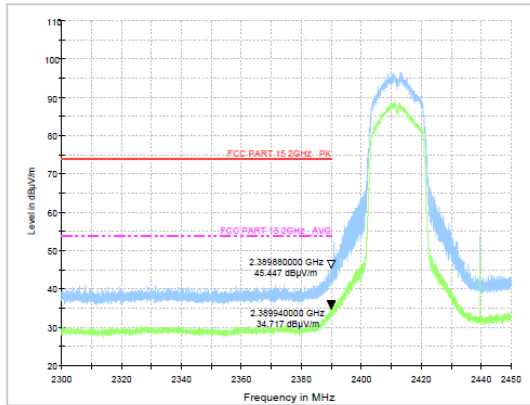
Test Mode: IEEE 802.11n40-Low



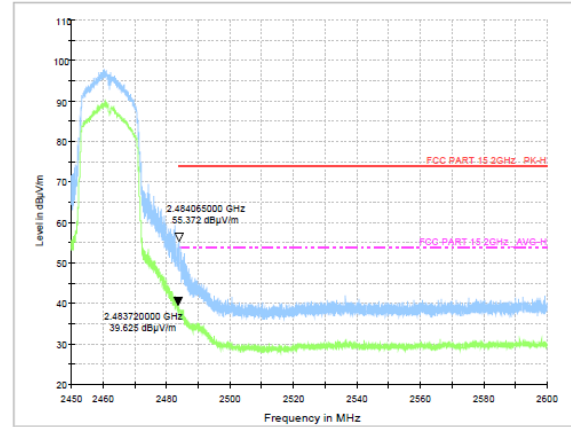
Test Mode: IEEE 802.11n40-High



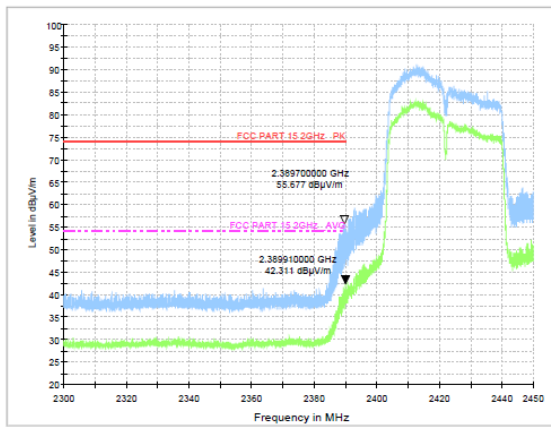
Test Mode: IEEE 802.11ax20-Low



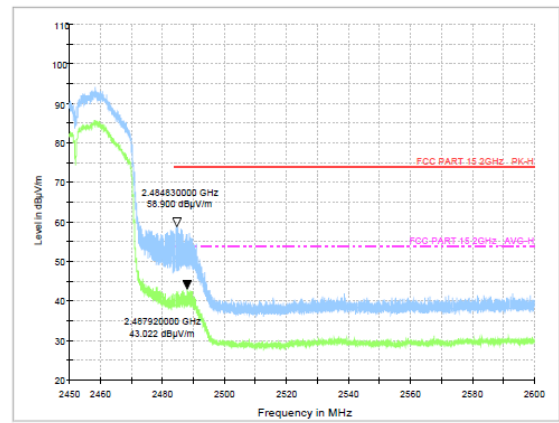
Test Mode: IEEE 802.11ax20-High



Test Mode: IEEE 802.11ax40-Low



Test Mode: IEEE 802.11ax40-High

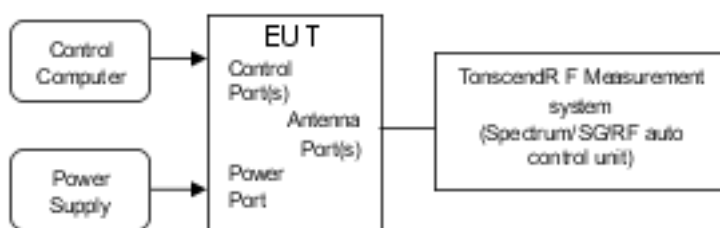


10. BAND EDGE (CONDUCTED)

10.1. Test limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

10.2. Block diagram of test setup



10.3. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

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

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

10.3.3. Set center frequency of spectrum analyzer = operating frequency.

10.3.4. Set the spectrum analyzer as RBW=100KHz, VBW=300KHz, Span = 30MHz, Sweep = auto.

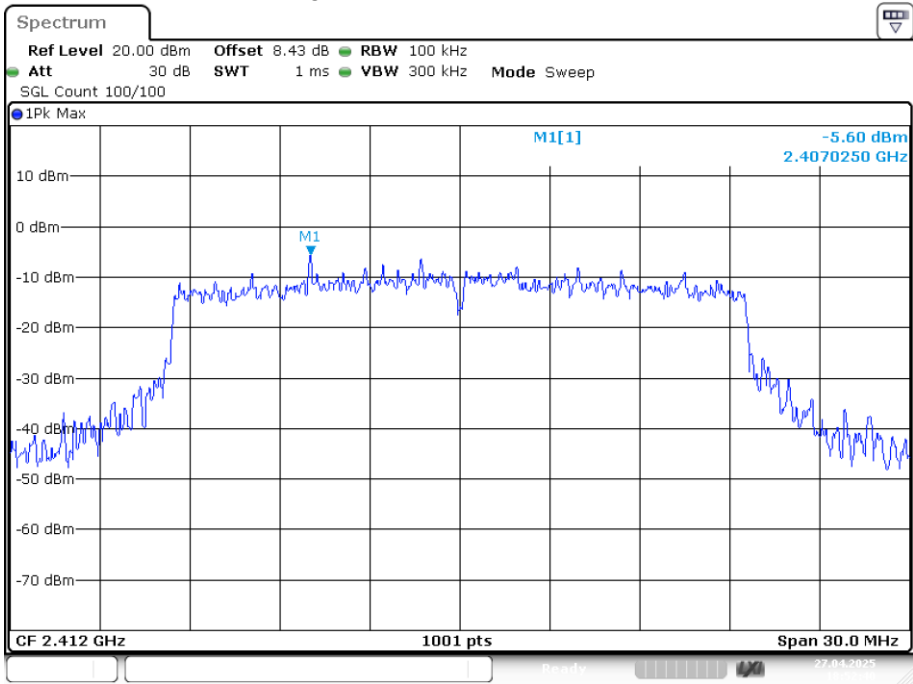
10.3.5. Repeat above procedures until all frequency measured were complete.

10.4. Test Results

Pass

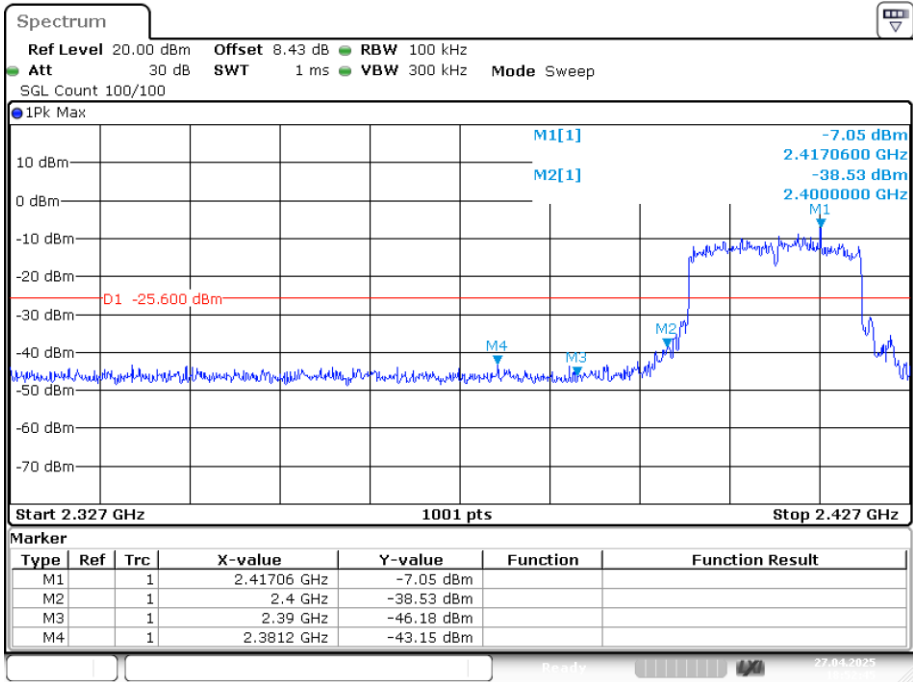
The test results are listed in next pages.

Band Edge NVNT ax20 2412MHz Ant1 Ref



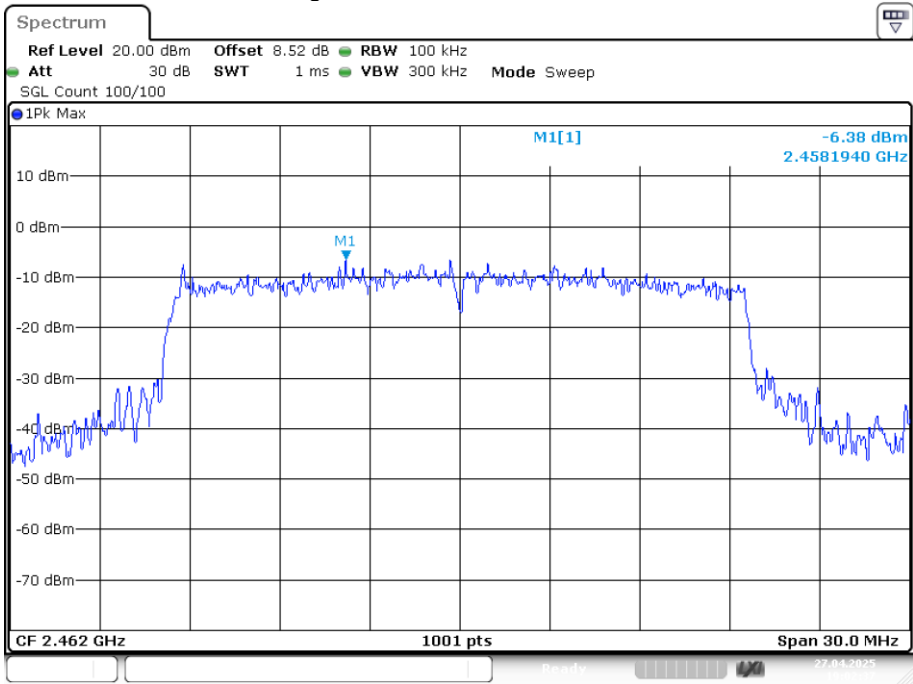
Date: 27.APR.2025 18:52:40

Band Edge NVNT ax20 2412MHz Ant1 Emission



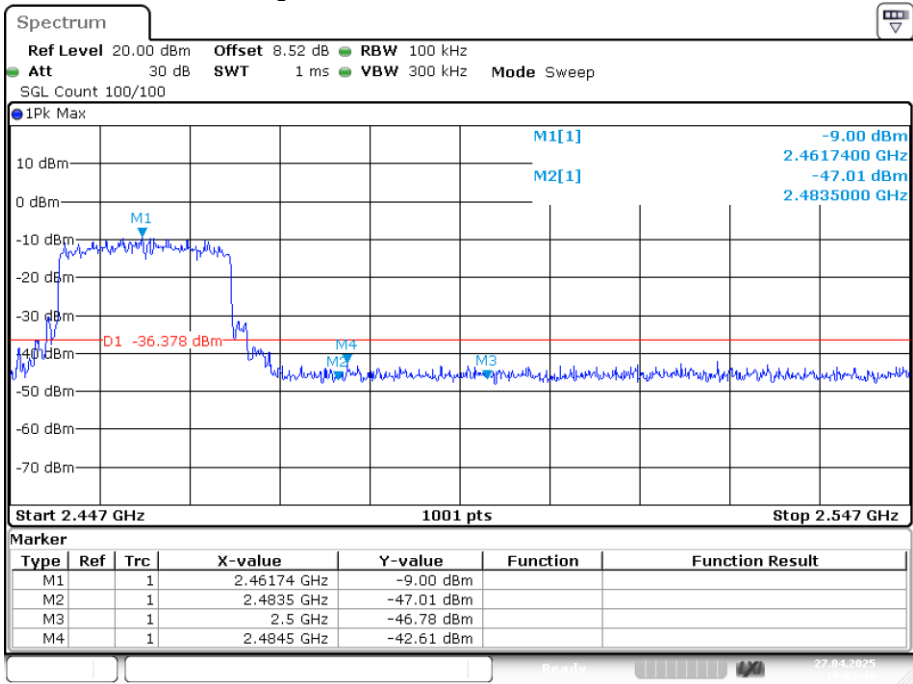
Date: 27.APR.2025 18:52:44

Band Edge NVNT ax20 2462MHz Ant1 Ref



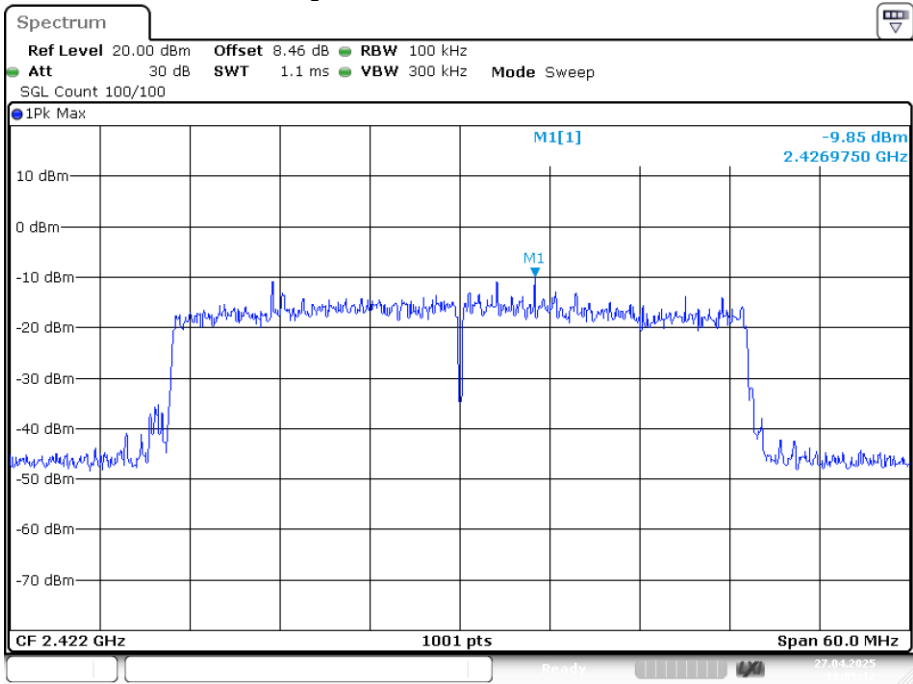
Date: 27.APR.2025 19:02:37

Band Edge NVNT ax20 2462MHz Ant1 Emission



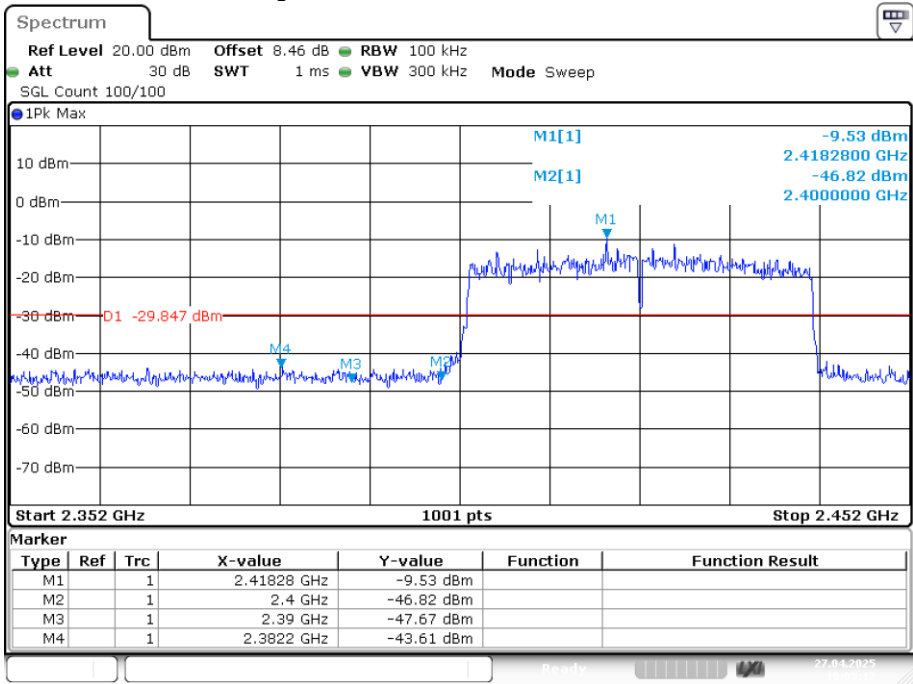
Date: 27.APR.2025 19:02:40

Band Edge NVNT ax40 2422MHz Ant1 Ref



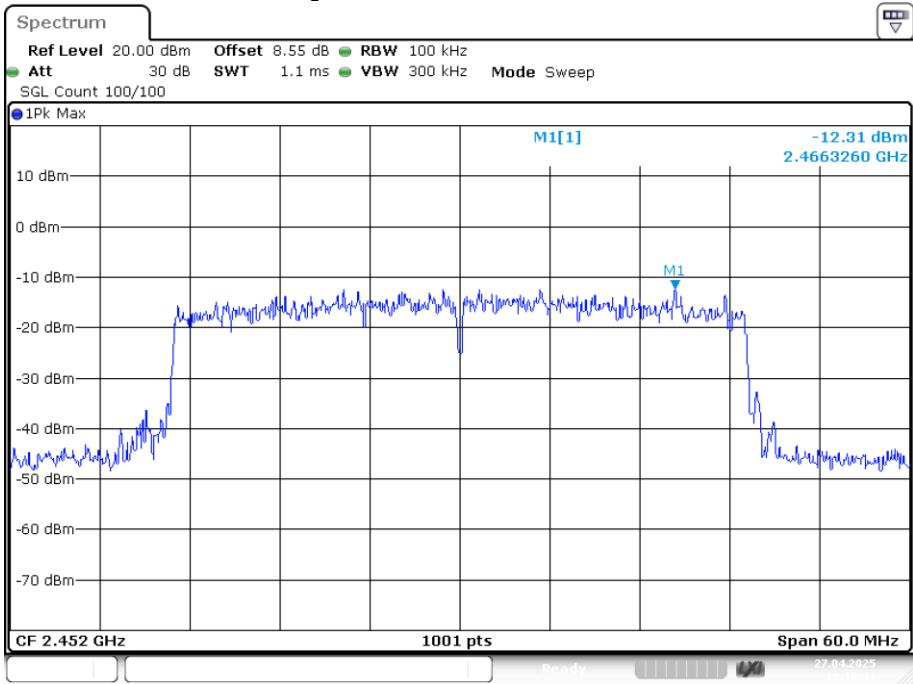
Date: 27.APR.2025 19:05:13

Band Edge NVNT ax40 2422MHz Ant1 Emission



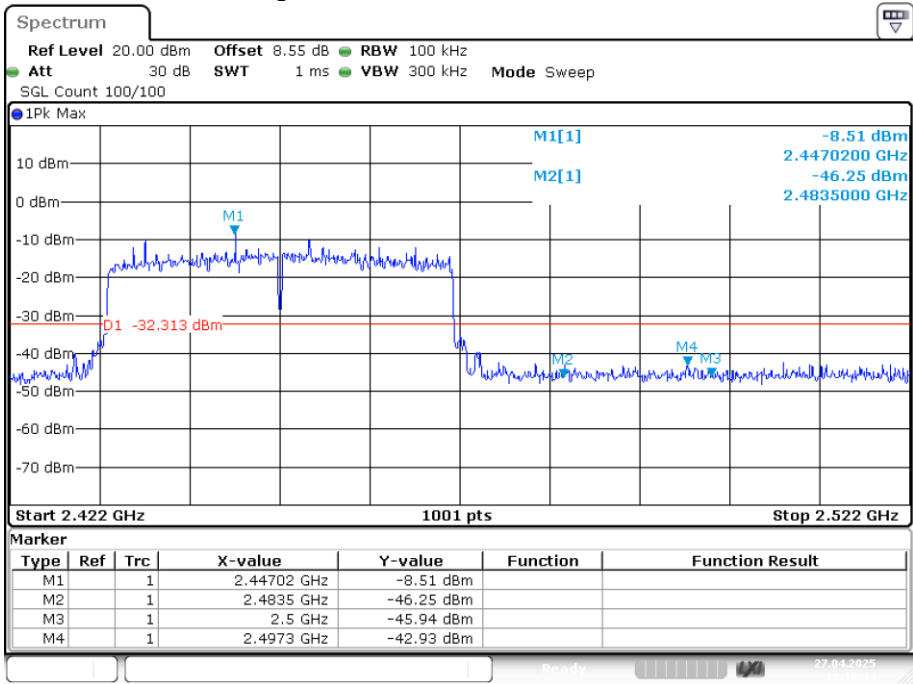
Date: 27.APR.2025 19:05:17

Band Edge NVNT ax40 2452MHz Ant1 Ref



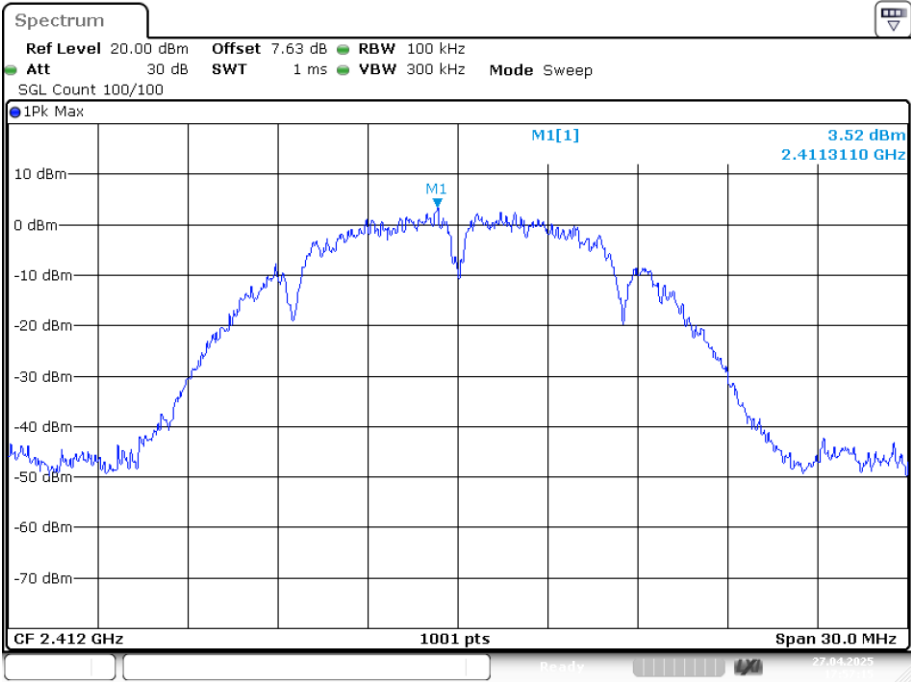
Date: 27.APR.2025 19:10:40

Band Edge NVNT ax40 2452MHz Ant1 Emission



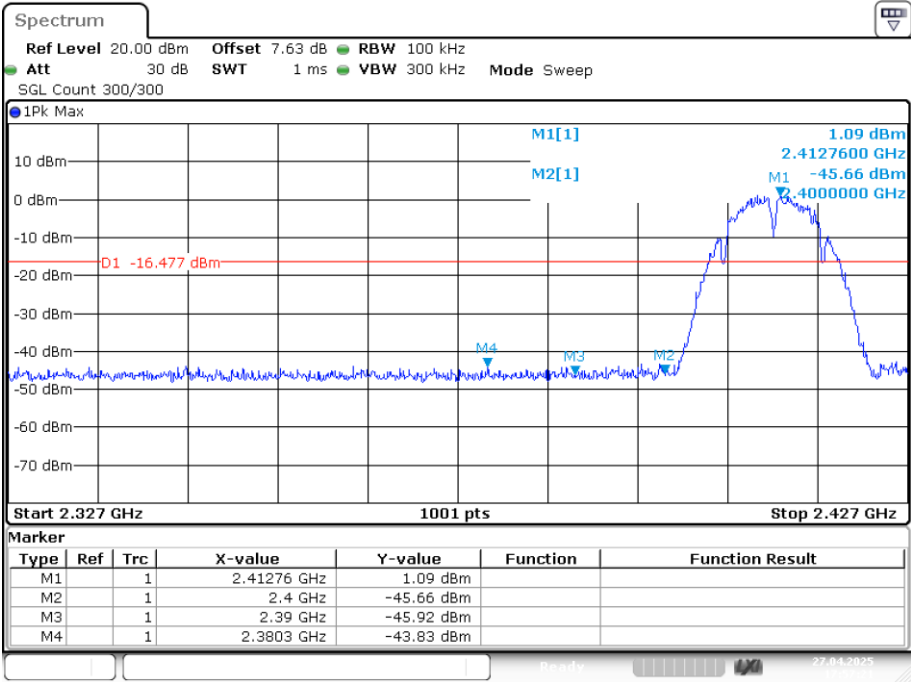
Date: 27.APR.2025 19:10:44

Band Edge NVNT b 2412MHz Ant1 Ref



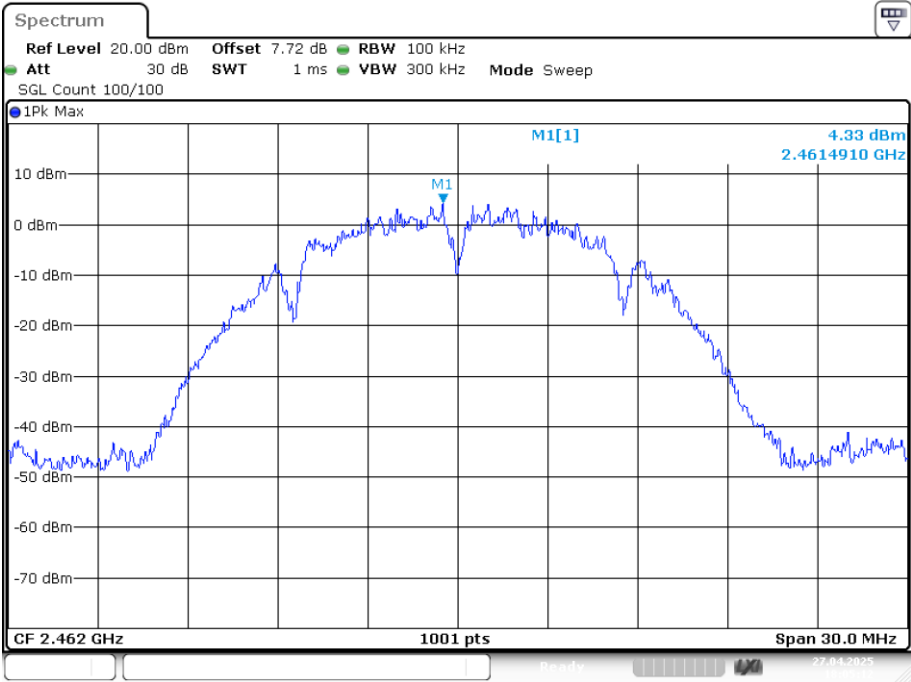
Date: 27.APR.2025 17:57:15

Band Edge NVNT b 2412MHz Ant1 Emission



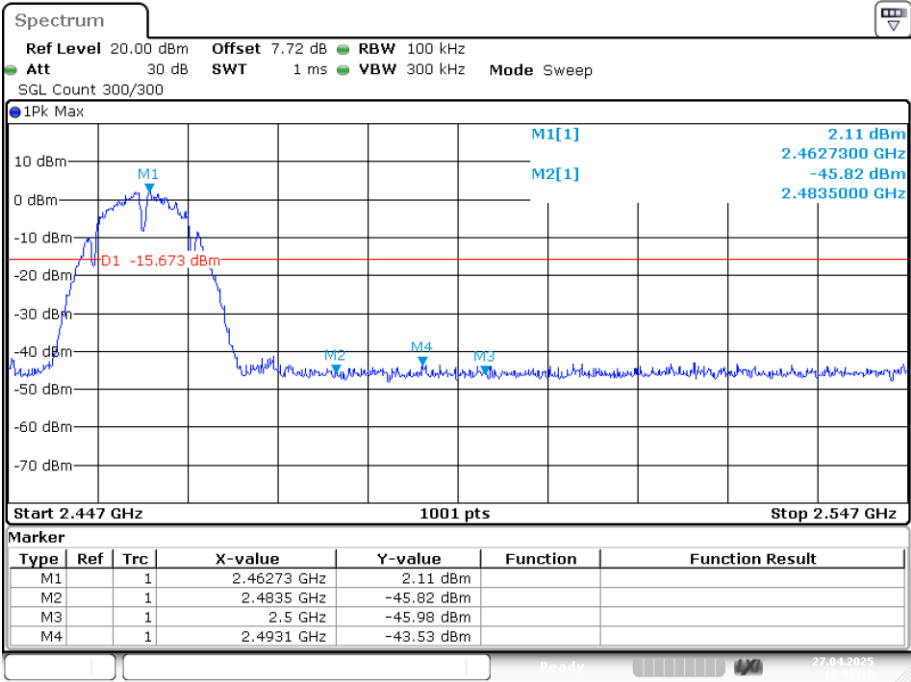
Date: 27.APR.2025 17:57:22

Band Edge NVNT b 2462MHz Ant1 Ref



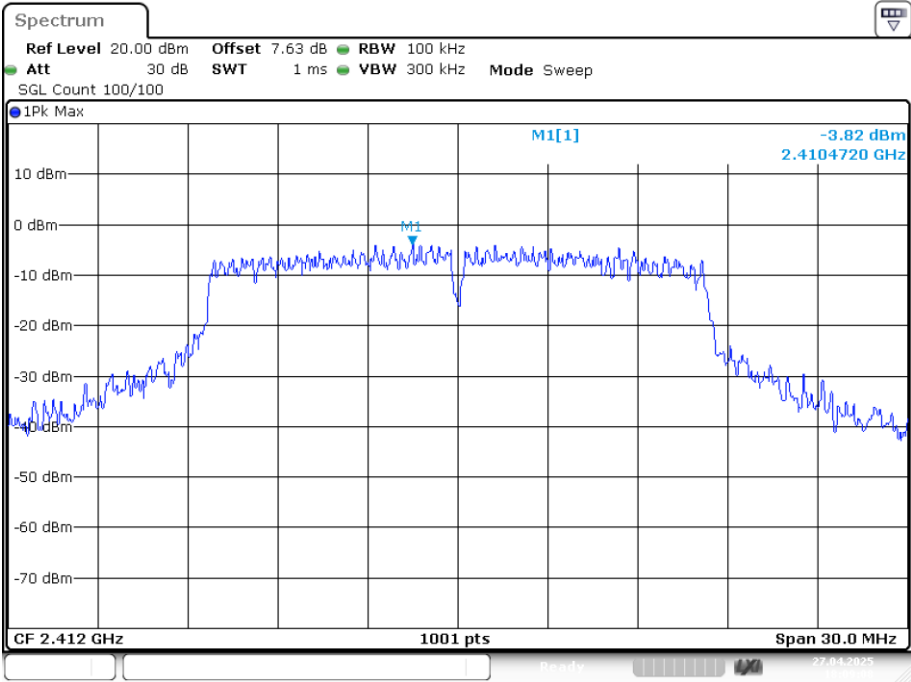
Date: 27.APR.2025 18:05:12

Band Edge NVNT b 2462MHz Ant1 Emission



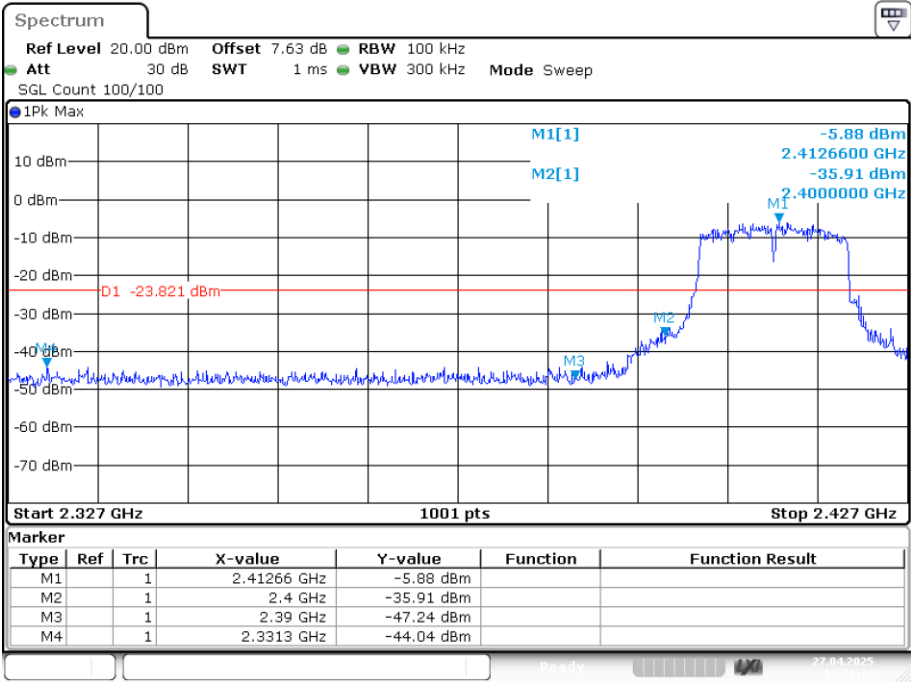
Date: 27.APR.2025 18:05:16

Band Edge NVNT g 2412MHz Ant1 Ref



Date: 27.APR.2025 18:09:08

Band Edge NVNT g 2412MHz Ant1 Emission



Date: 27.APR.2025 18:09:12