

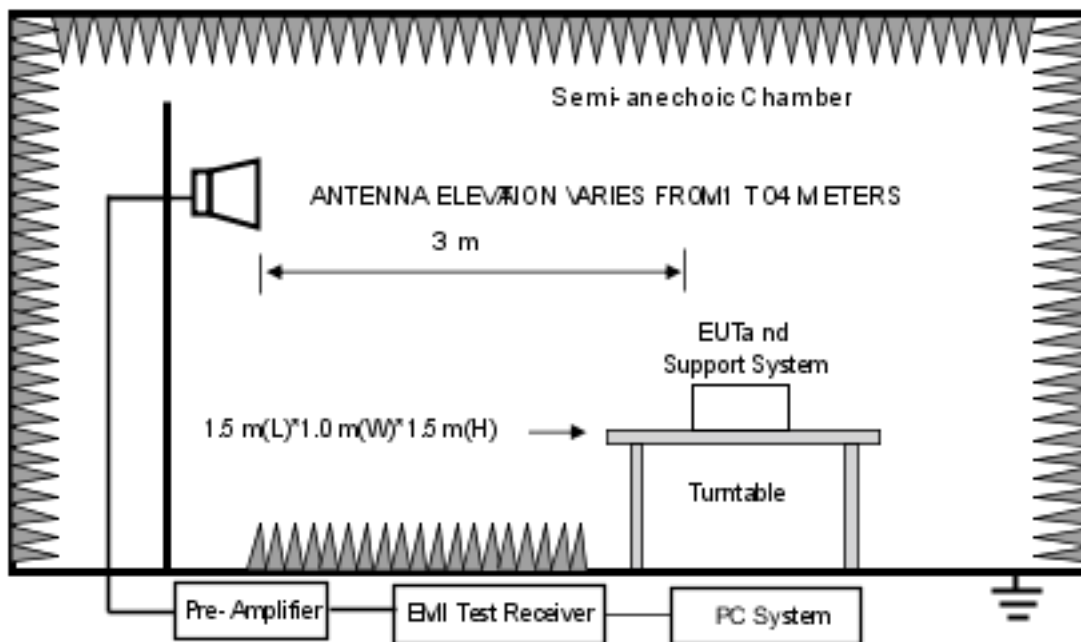
10. BAND EDGE CHECK

10.1. 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.

10.2. Block diagram of test setup



10.3. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

10.3.1 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

10.3.2 Check the spurious emissions out of band.

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

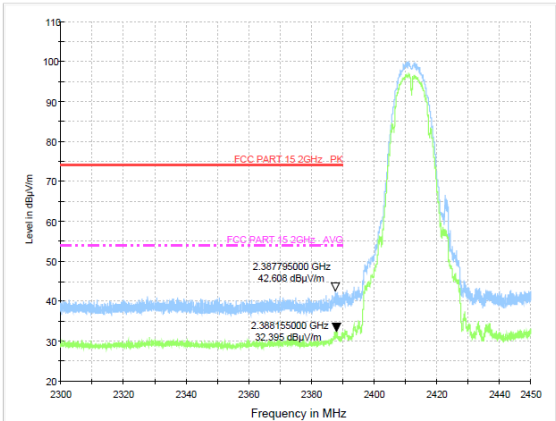
All restriction band and non- restriction band have been tested, only worse case is reported.

10.4. Test Results

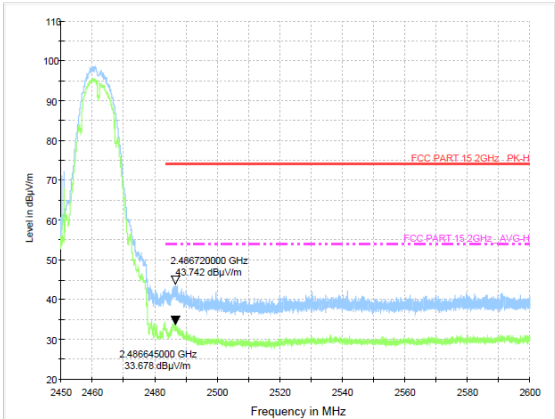
PASS.

Detailed information please see the following page.

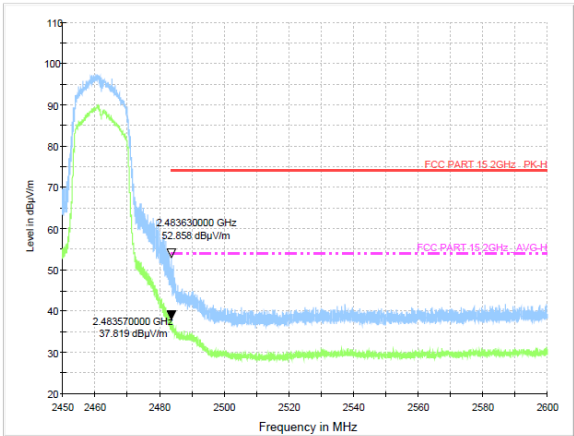
Test Mode: IEEE 802.11b-Low



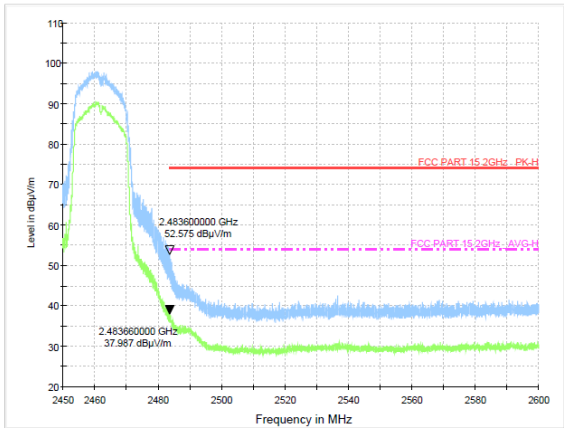
Test Mode: IEEE 802.11b-High



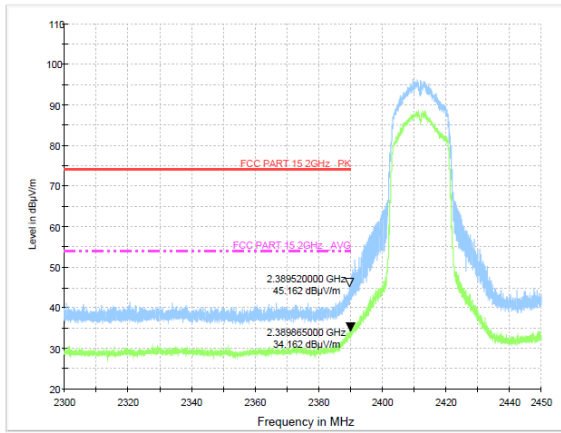
Test Mode: IEEE 802.11g-Low



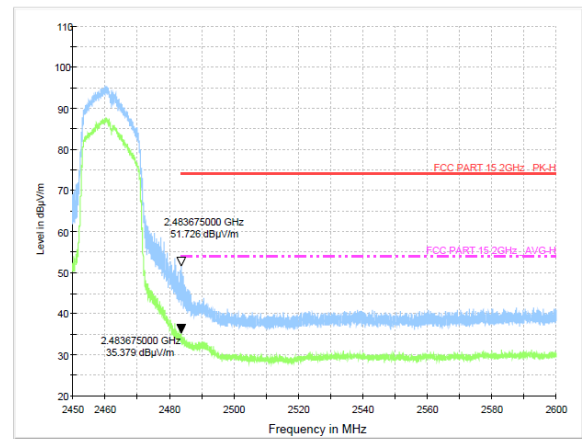
Test Mode: IEEE 802.11g-High



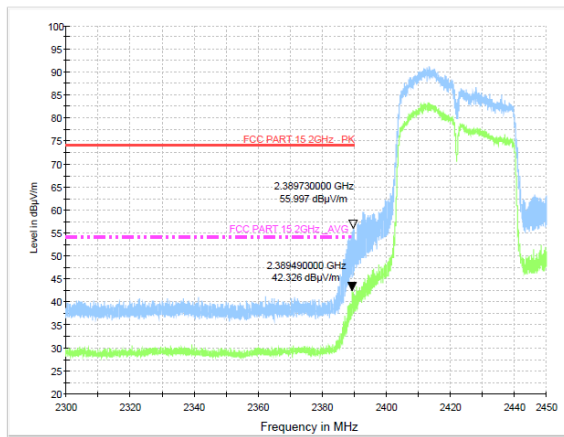
Test Mode: IEEE 802.11n20-Low



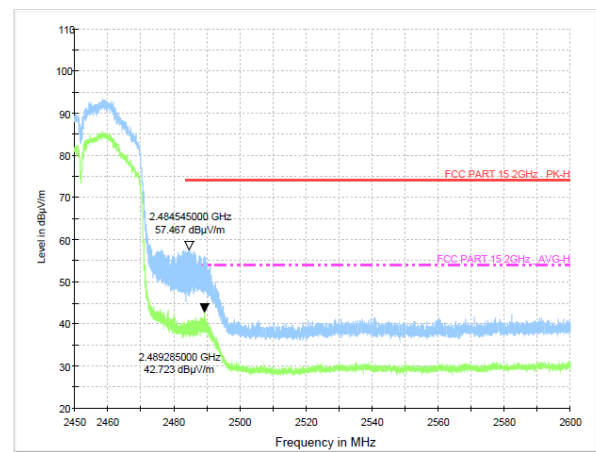
Test Mode: IEEE 802.11n20-High



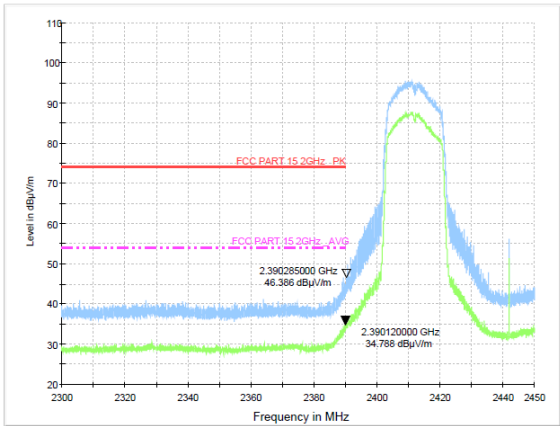
Test Mode: IEEE 802.11n40-Low



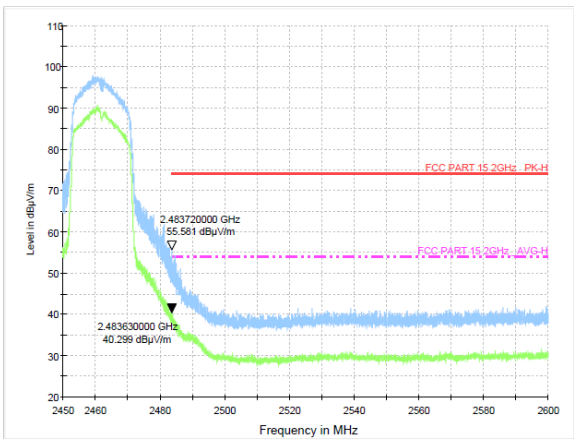
Test Mode: IEEE 802.11n40-High



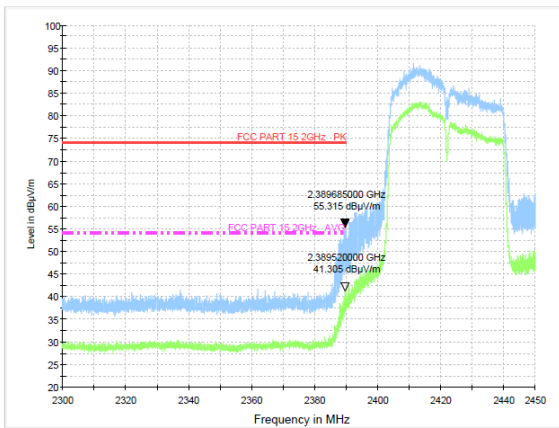
Test Mode: IEEE 802.11ax20-Low



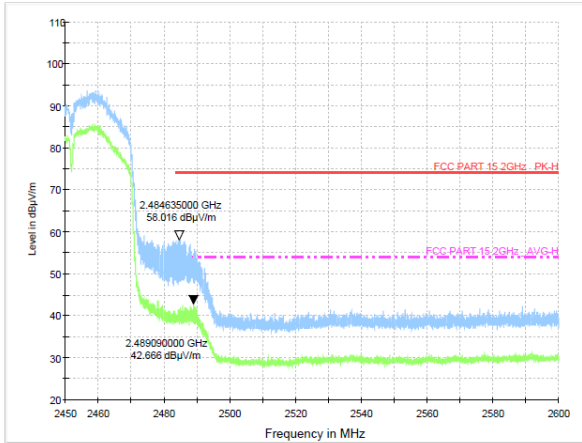
Test Mode: IEEE 802.11ax20-High



Test Mode: IEEE 802.11ax40-Low



Test Mode: IEEE 802.11ax40-High

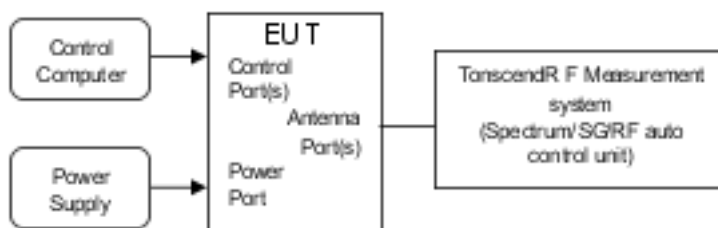


11. BAND EDGE (CONDUCTED)

11.1. 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)).

11.2. Block diagram of test setup



11.3. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

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

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

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

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

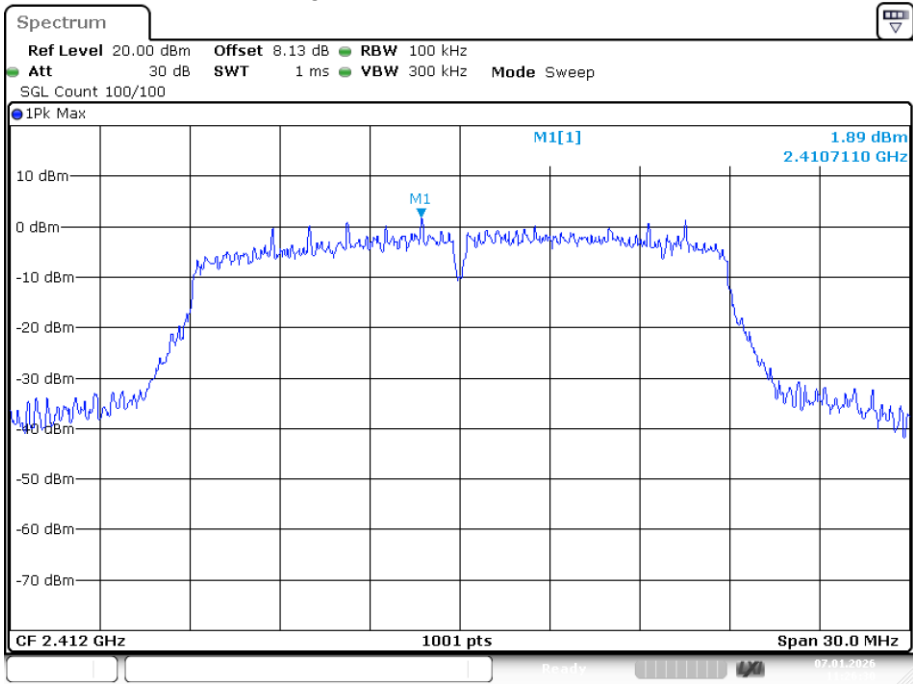
11.3.5. Repeat above procedures until all frequency measured were complete.

11.4. Test Results

Pass

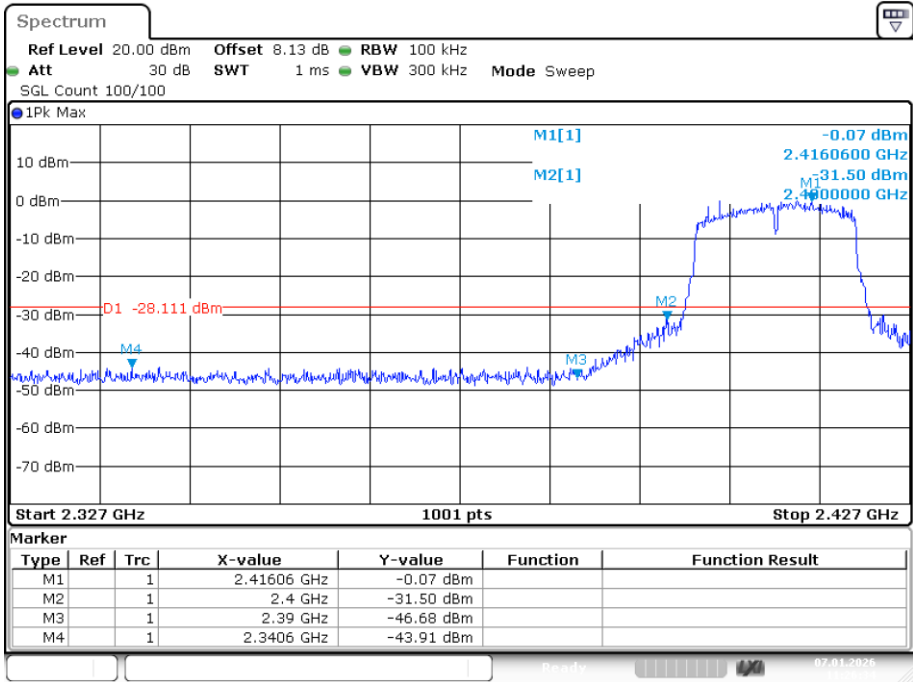
The test results are listed in next pages.

Band Edge NVNT ax20 2412MHz Ant1 Ref



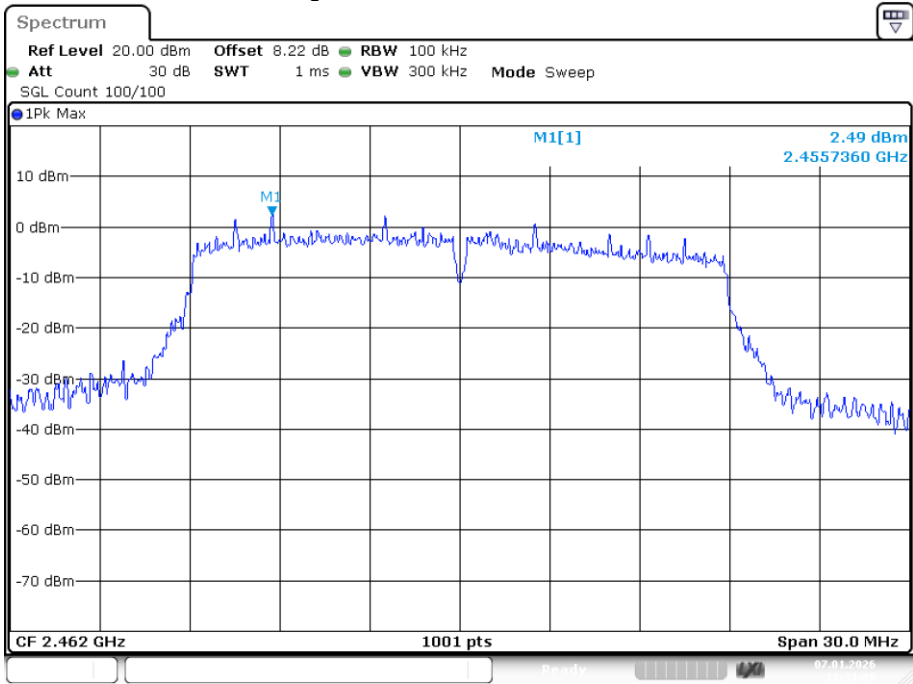
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Band Edge NVNT ax20 2412MHz Ant1 Emission



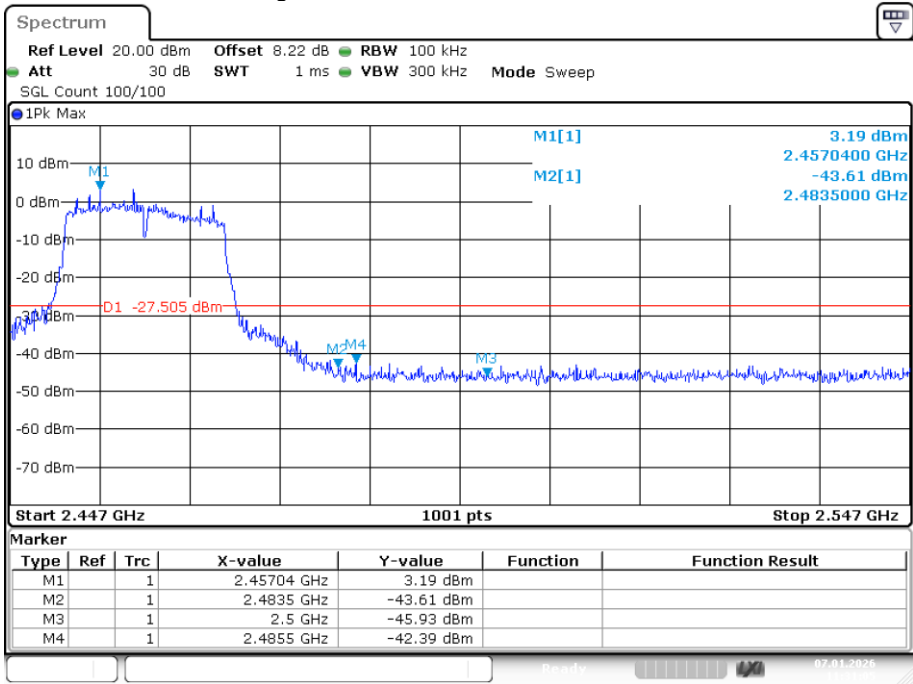
Date: 7.JAN.2026 11:26:34

Band Edge NVNT ax20 2462MHz Ant1 Ref



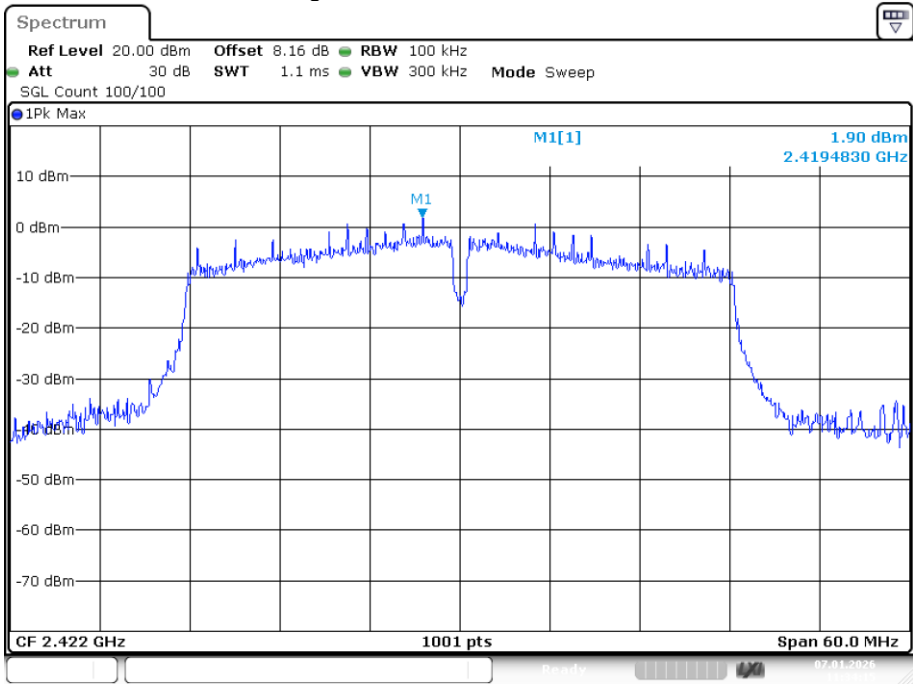
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Band Edge NVNT ax20 2462MHz Ant1 Emission



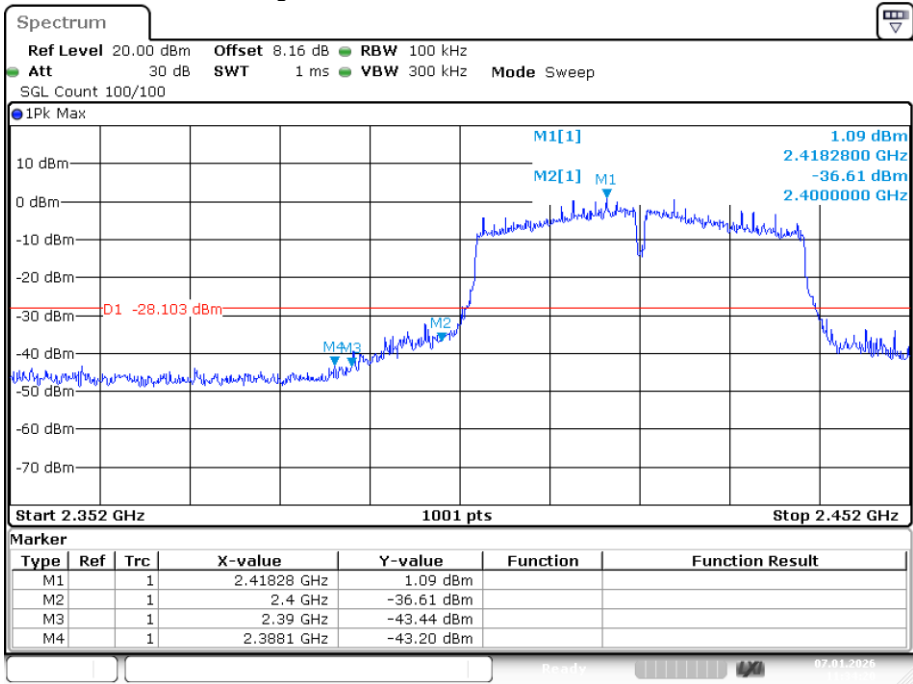
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Band Edge NVNT ax40 2422MHz Ant1 Ref



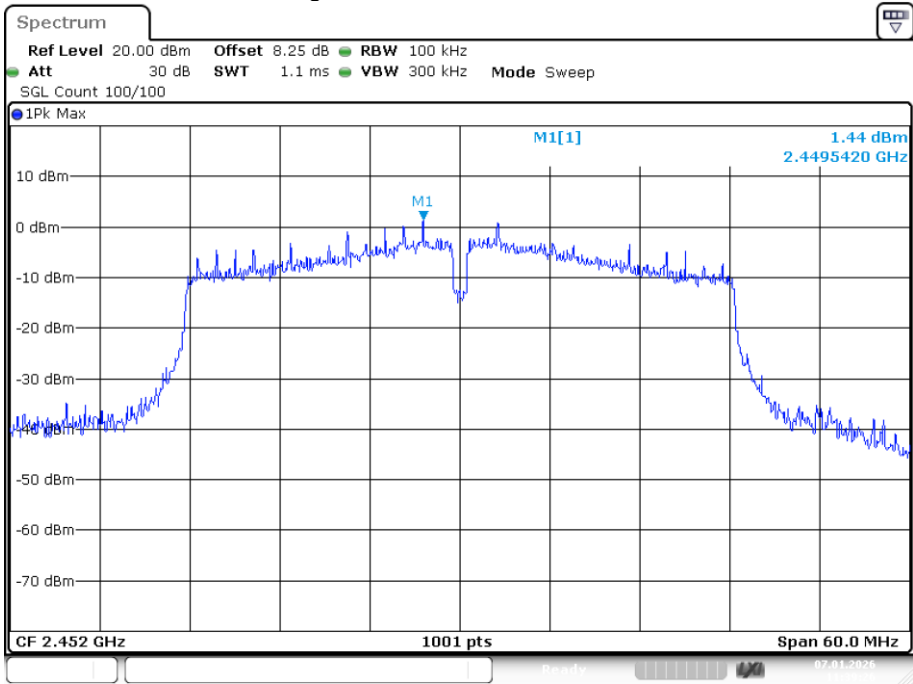
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Band Edge NVNT ax40 2422MHz Ant1 Emission



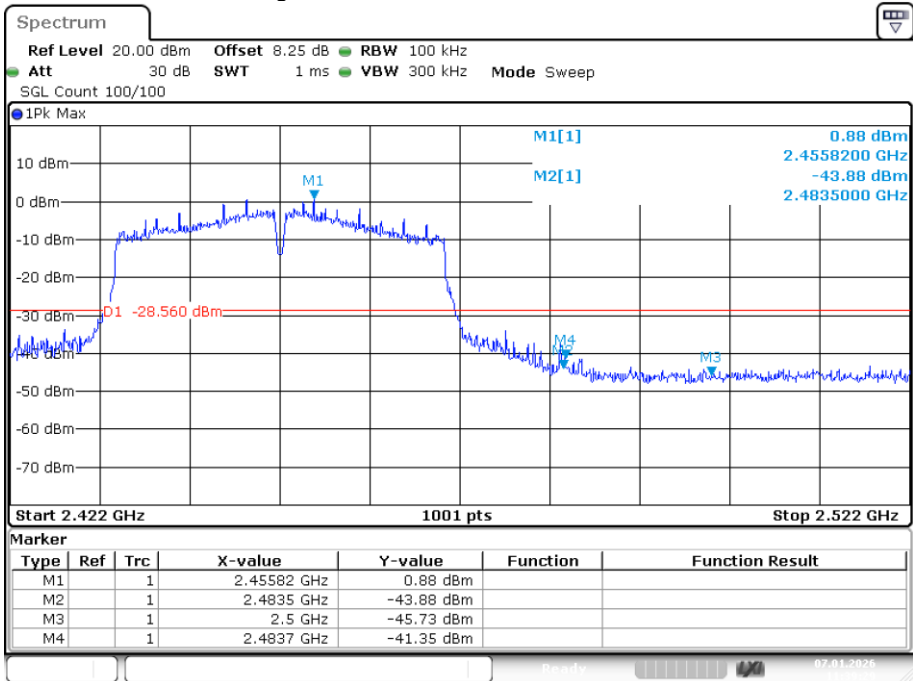
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Band Edge NVNT ax40 2452MHz Ant1 Ref



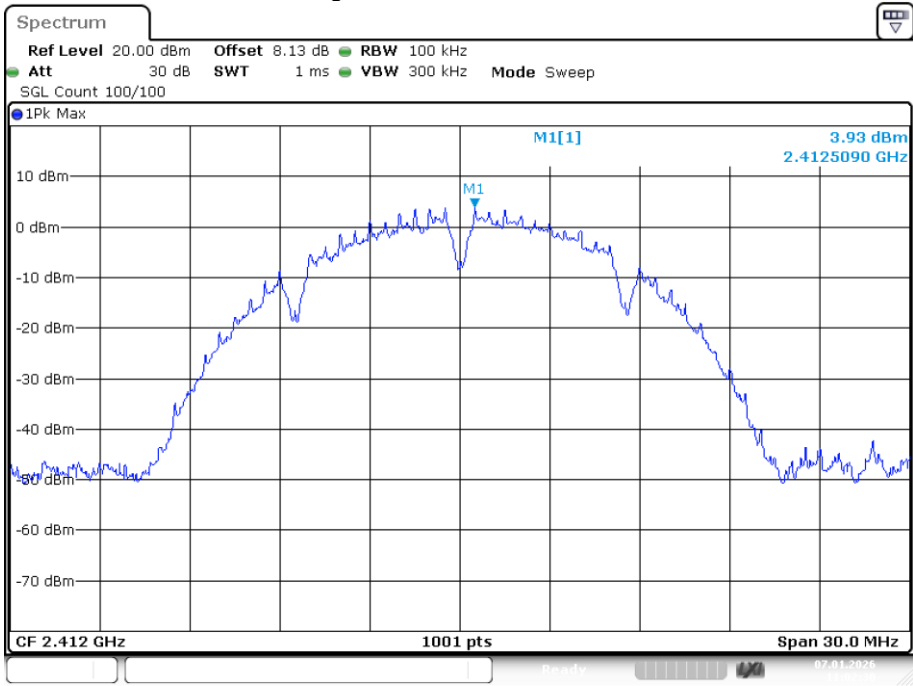
Date: 7.JAN.2026 11:39:25

Band Edge NVNT ax40 2452MHz Ant1 Emission



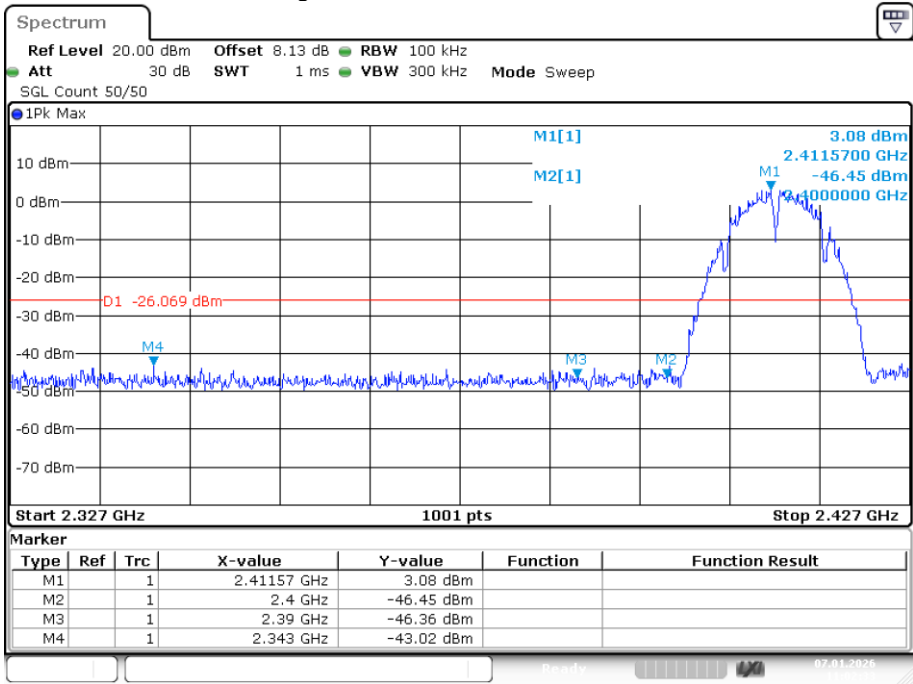
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Band Edge NVNT b 2412MHz Ant1 Ref



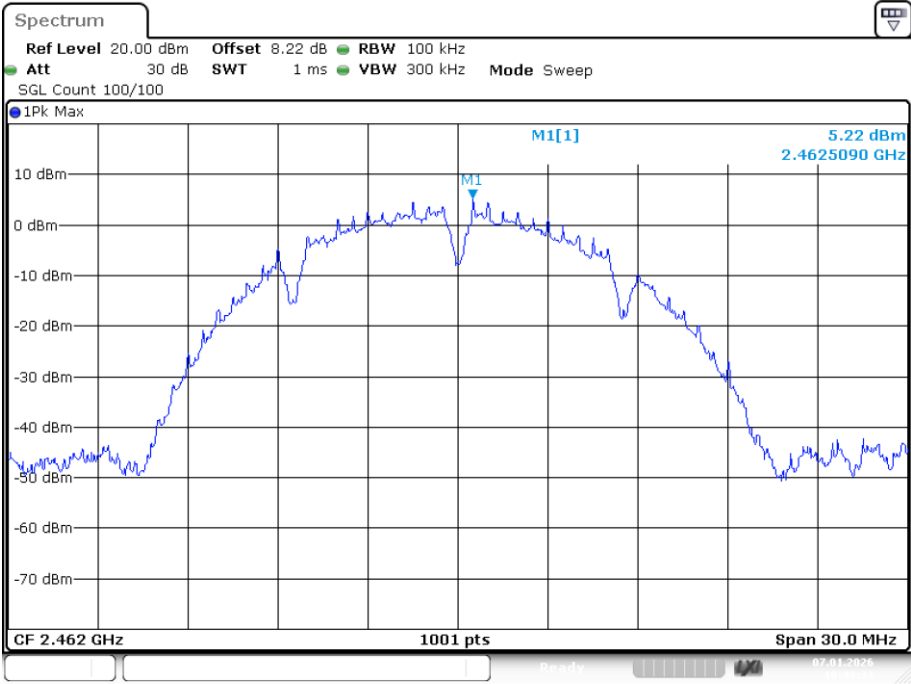
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Band Edge NVNT b 2412MHz Ant1 Emission



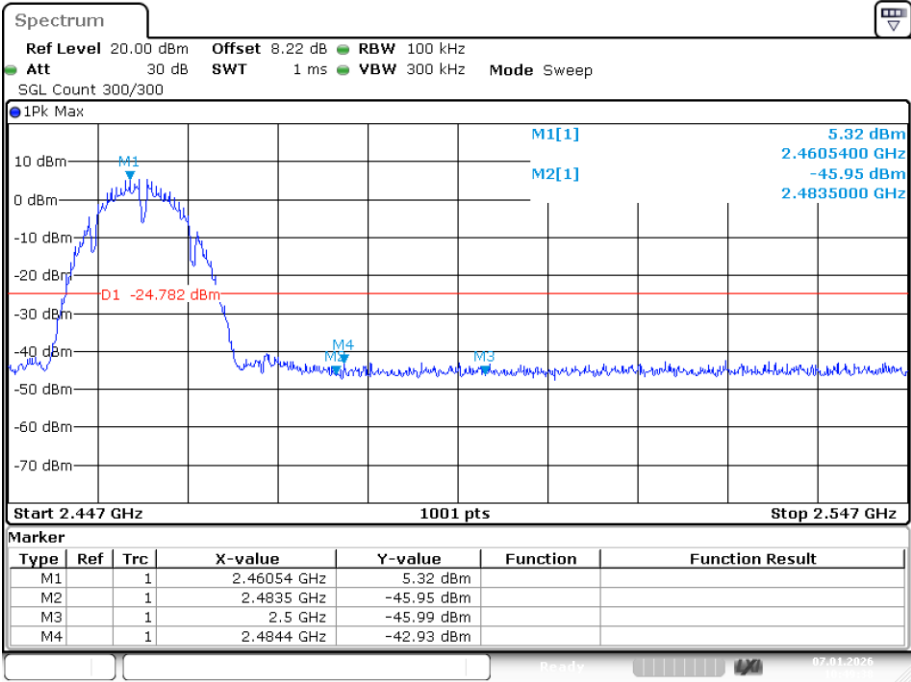
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Band Edge NVNT b 2462MHz Ant1 Ref



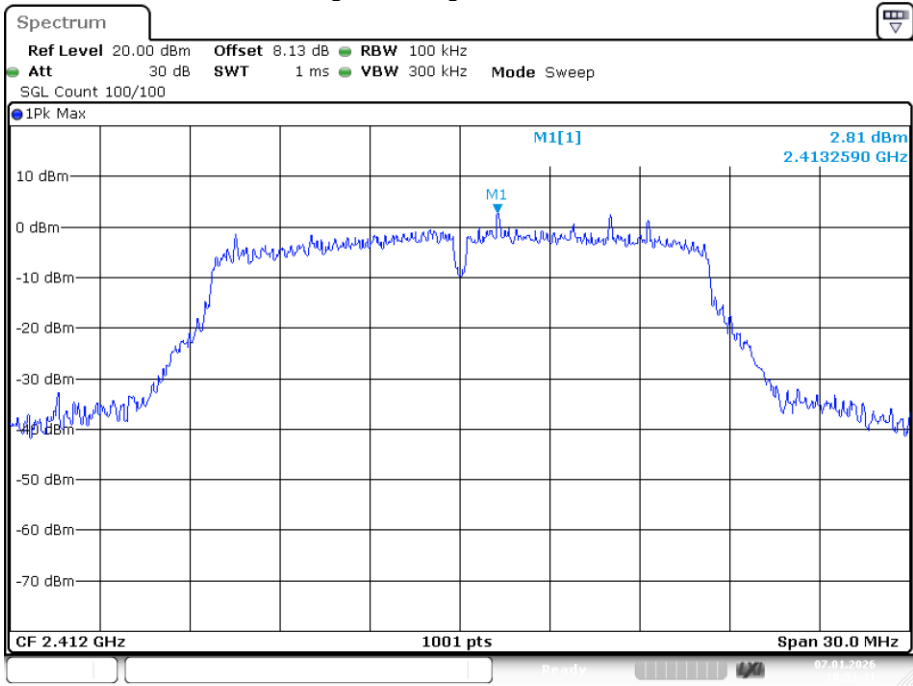
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Band Edge NVNT b 2462MHz Ant1 Emission



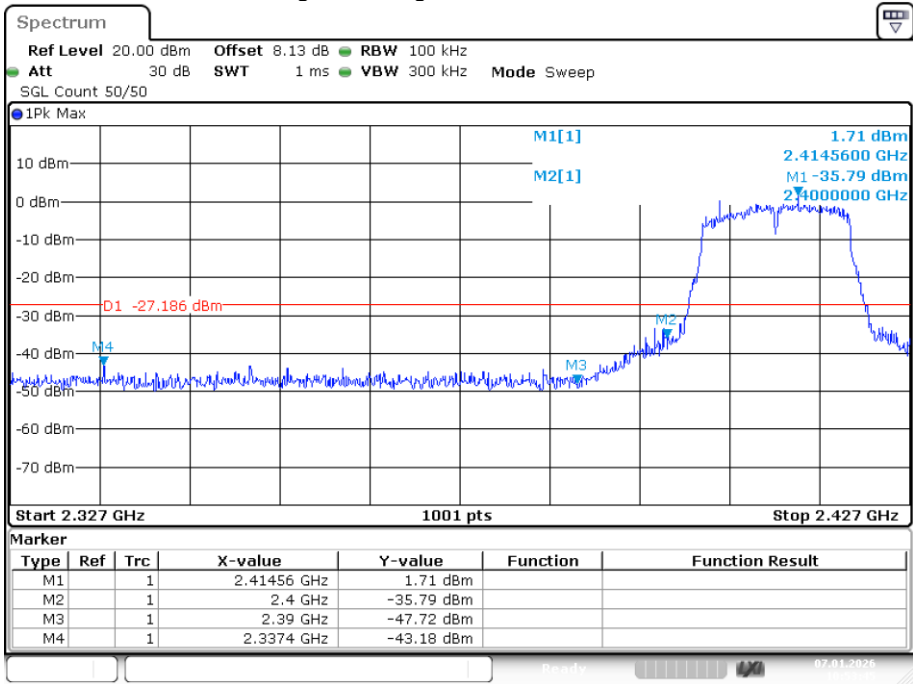
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Band Edge NVNT g 2412MHz Ant1 Ref



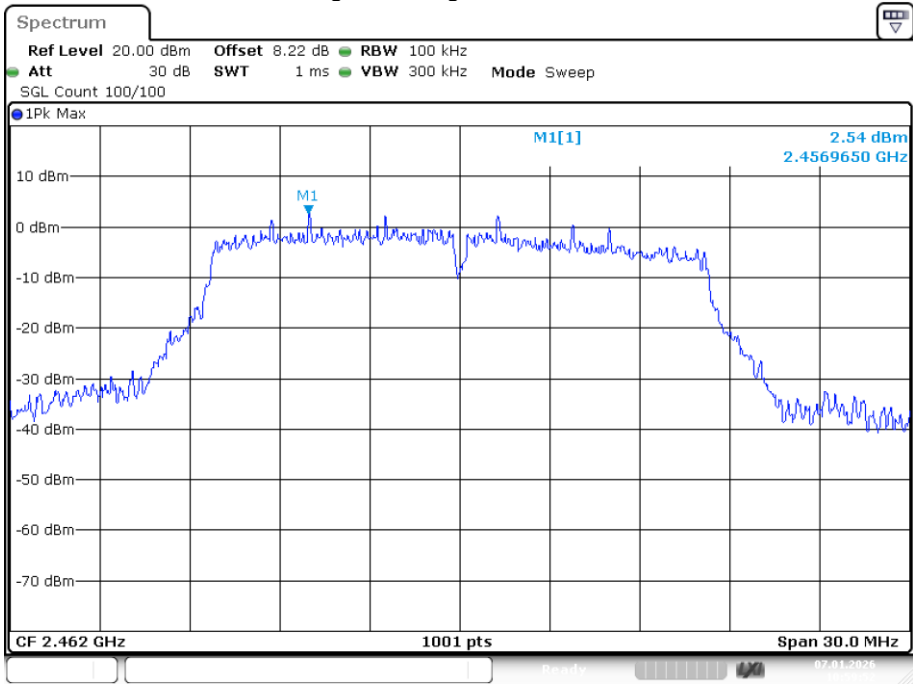
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Band Edge NVNT g 2412MHz Ant1 Emission



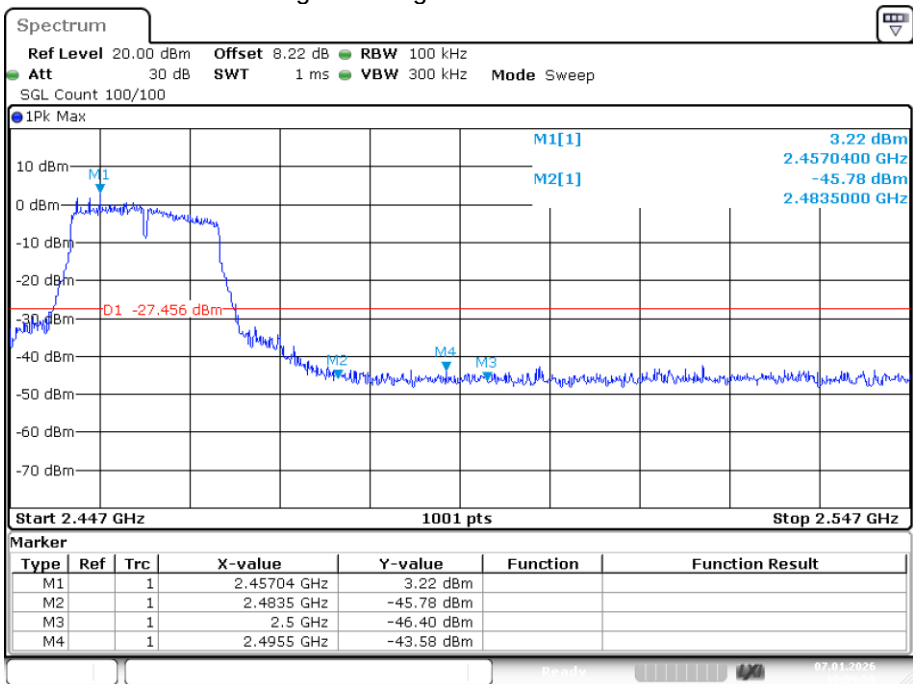
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Band Edge NVNT g 2462MHz Ant1 Ref



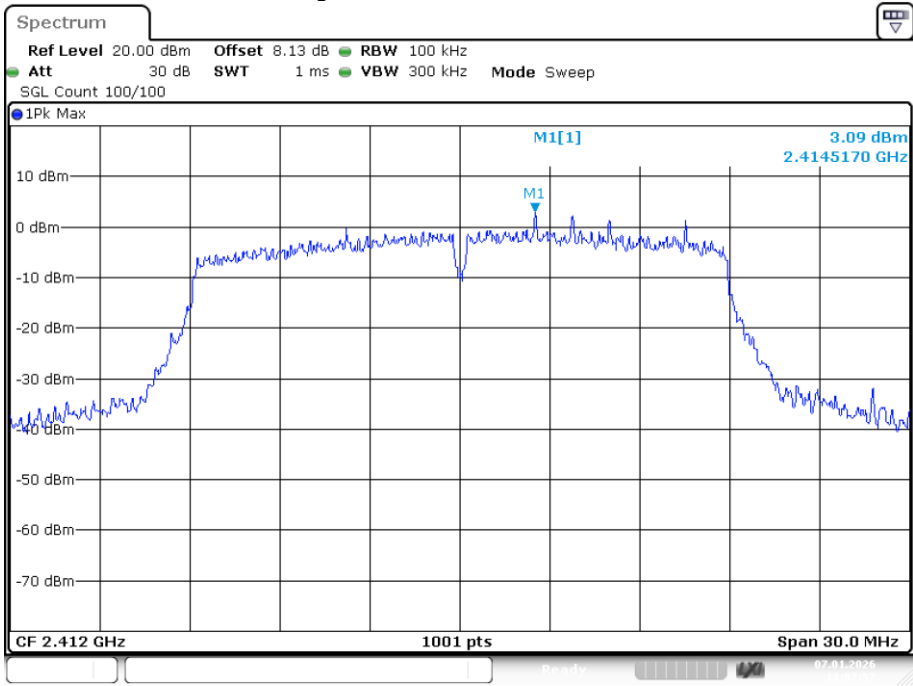
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Band Edge NVNT g 2462MHz Ant1 Emission



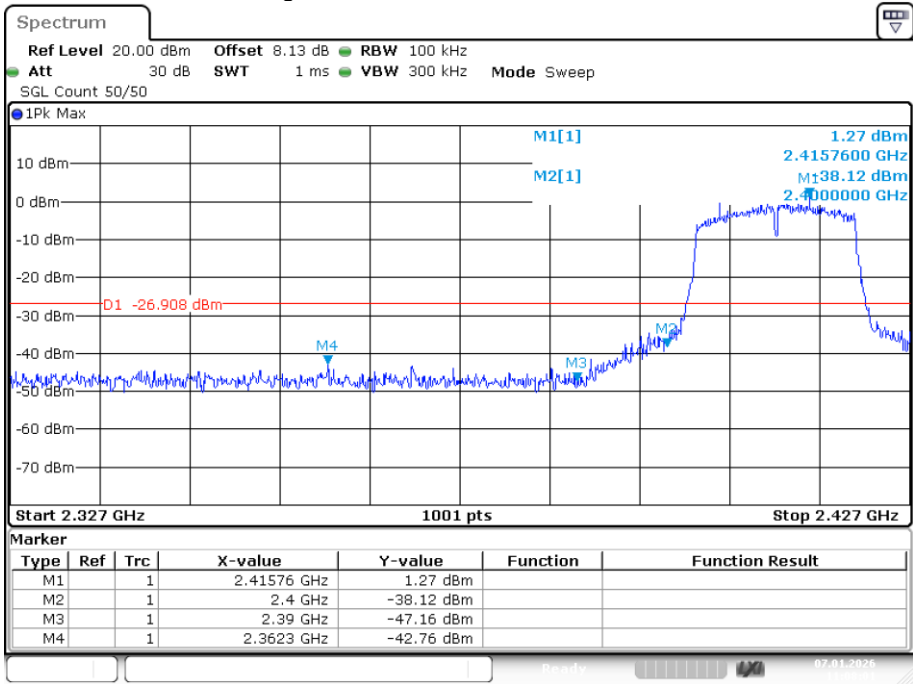
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Band Edge NVNT n20 2412MHz Ant1 Ref



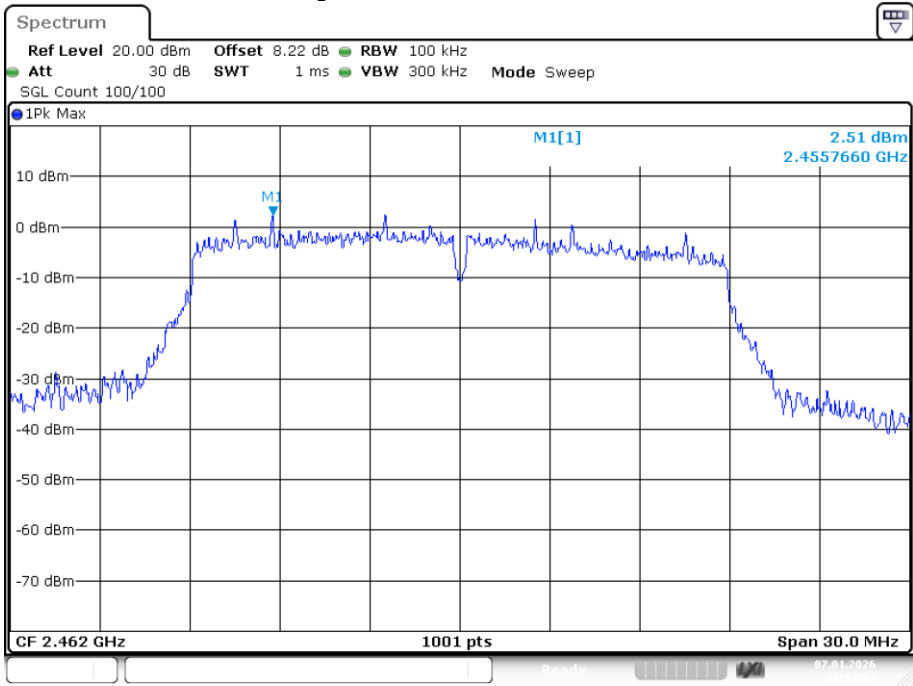
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Band Edge NVNT n20 2412MHz Ant1 Emission



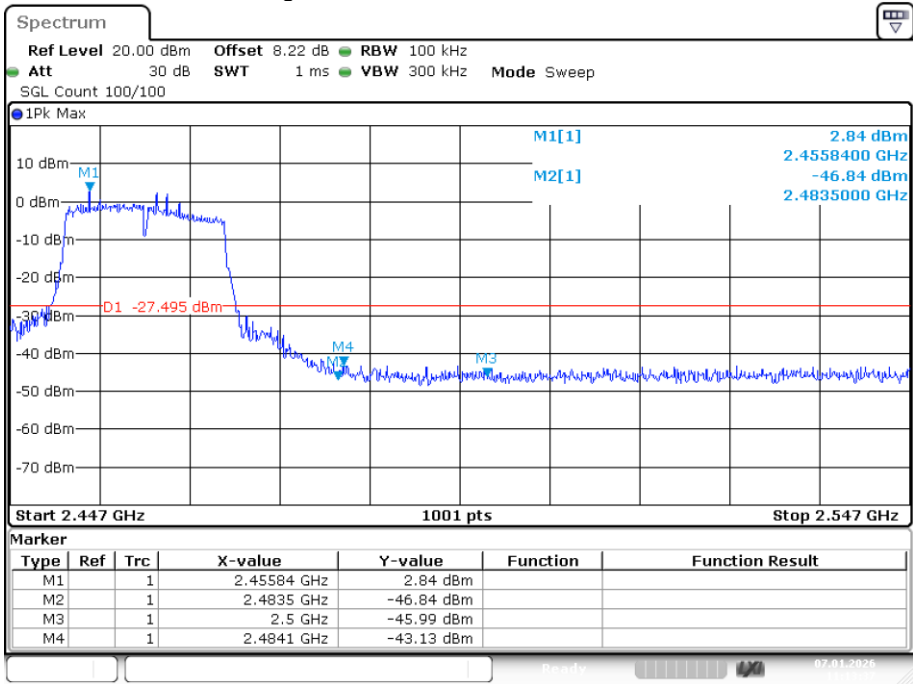
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Band Edge NVNT n20 2462MHz Ant1 Ref



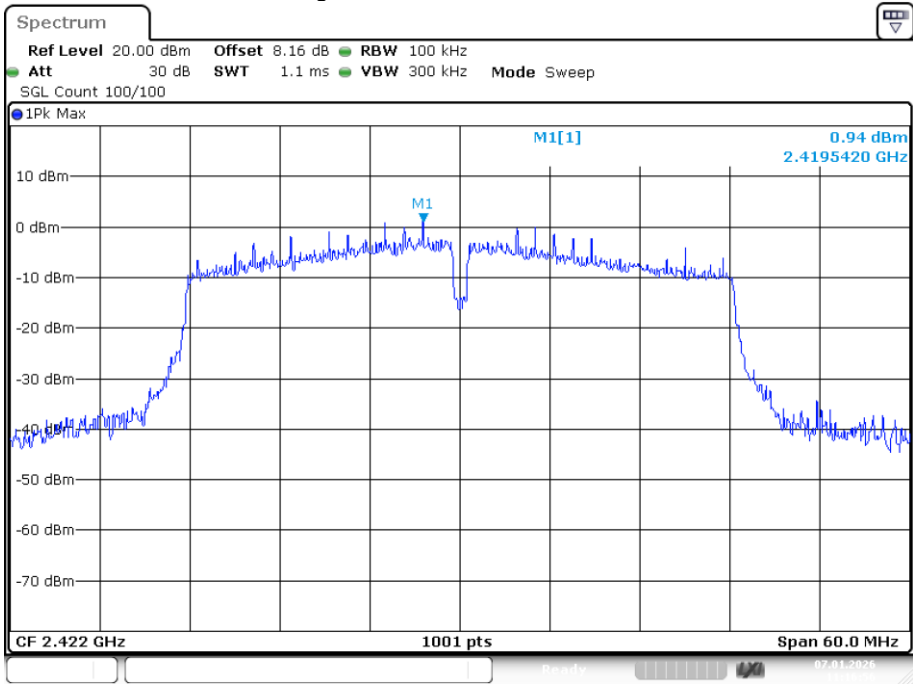
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Band Edge NVNT n20 2462MHz Ant1 Emission



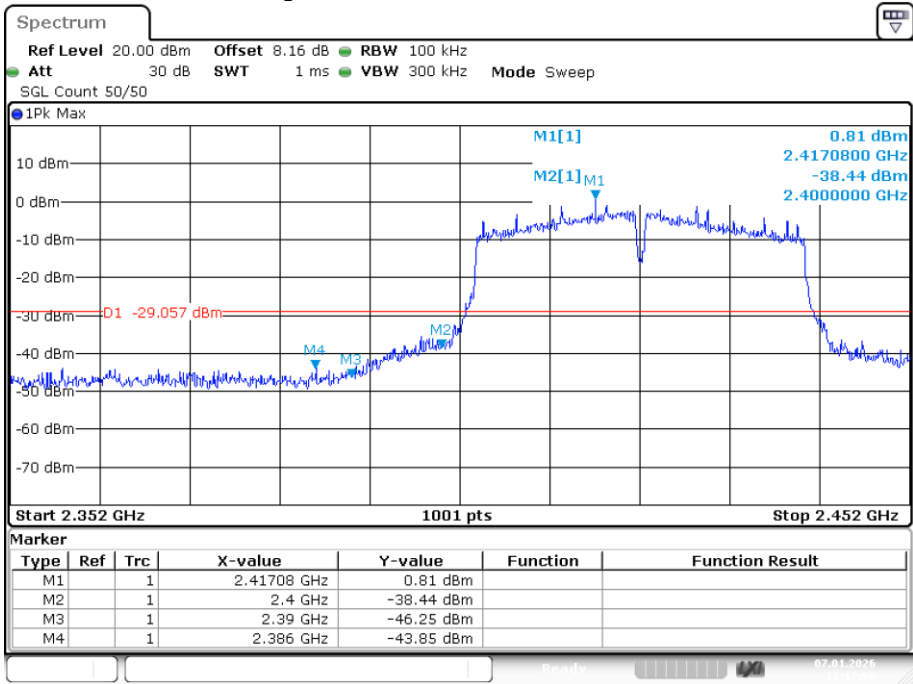
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Band Edge NVNT n40 2422MHz Ant1 Ref



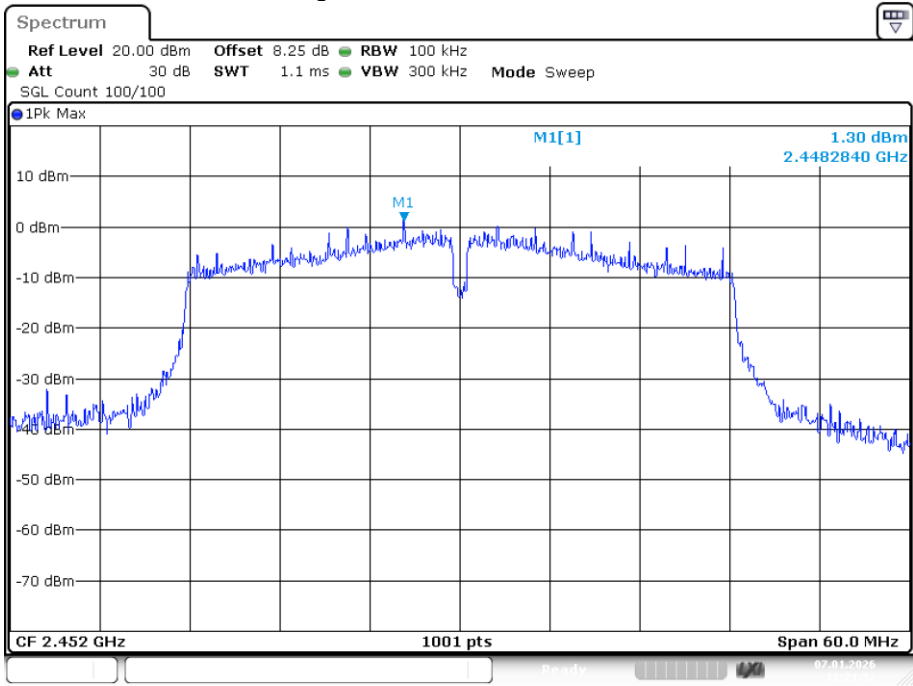
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Band Edge NVNT n40 2422MHz Ant1 Emission



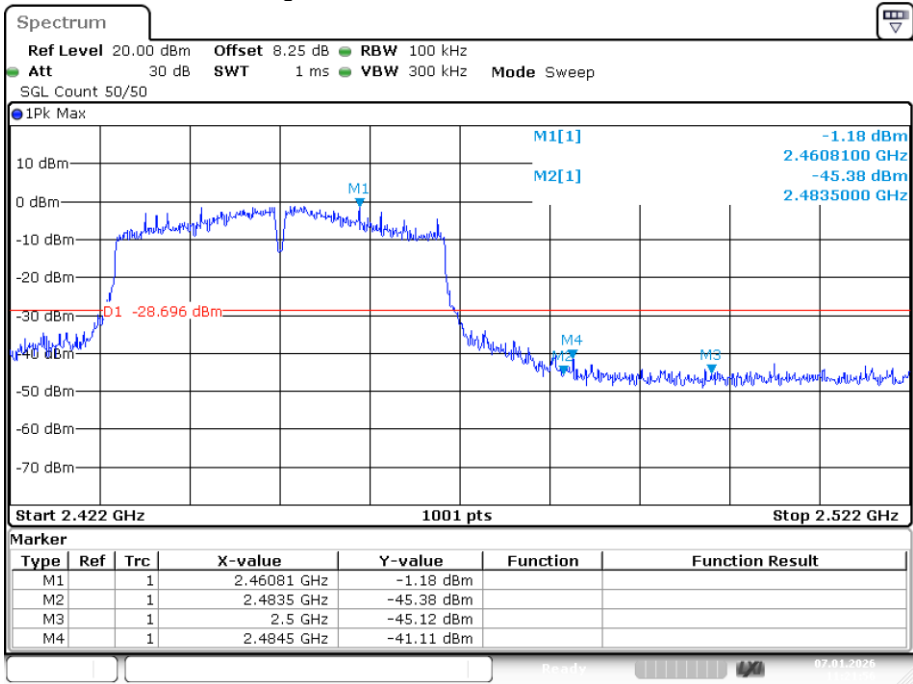
Date: 7.JAN.2026 11:17:00

Band Edge NVNT n40 2452MHz Ant1 Ref



Date: 7.JAN.2026 11:21:52

Band Edge NVNT n40 2452MHz Ant1 Emission



Date: 7.JAN.2026 11:21:56

12. ANTENNA REQUIREMENT

12.1. 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.

12.2. Antenna Connected Construction

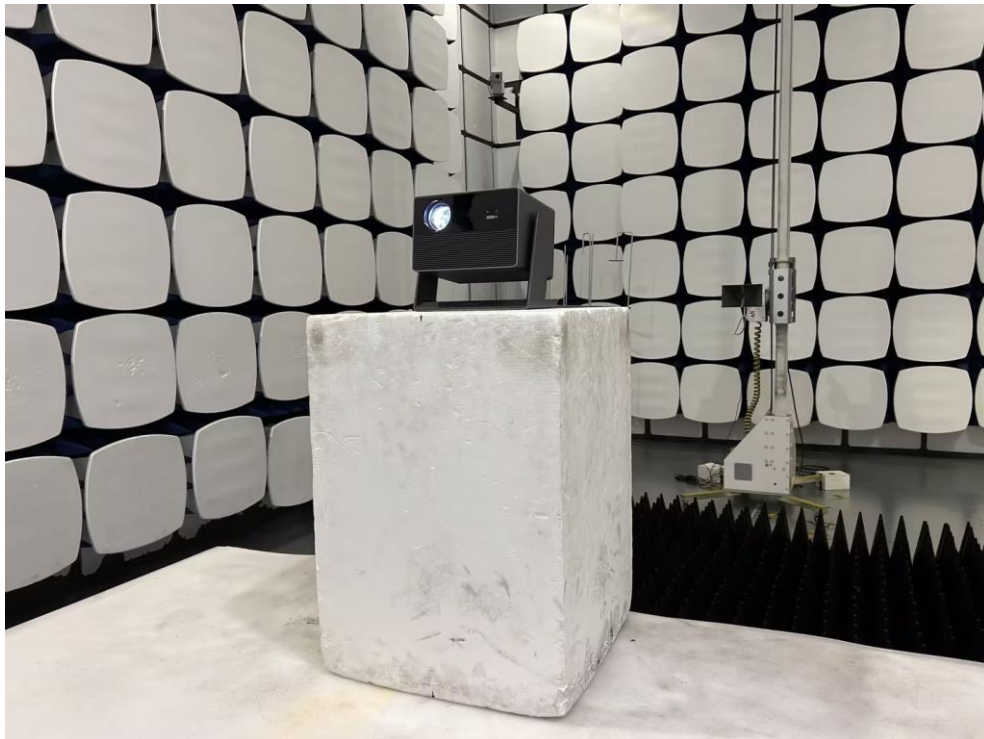
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

12.3. Results

The EUT antenna is integrated antenna. It complies with the standard requirement.

13. TEST SETUP PHOTO

13.1. Photo of Radiated Emission test



13.2.Photo of Conducted Emission test



14. PHOTOS OF EUT

Please refer to report A2512309-C01-R01.

-----END OF REPORT-----