# FCC TEST REPORT

FCC ID: 2AZFE-ONO3PRO

On Behalf of

Shenzhen Shadow Crown Technology Co.,Ltd.

LED Projector

Model No.: ONO3Pro, YG381, YG381M, YG391, YG371, YG561, YG211, L61Pro

| | | |
|---|---|---|
| Prepared for | : | Shenzhen Shadow Crown Technology Co.,Ltd. |
| Address | : | A9 East 5th floor, Industrial Building,Longwang Miao, Fuyong street, Baoan district , Shenzhen |

| | | |
|---|---|---|
| Prepared By | : | Shenzhen Alpha Product Testing Co., Ltd. |
| Address | : | Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China |

| | | |
|---|---|---|
| Report Number | : | A2404121-C01-R04 |
| Date of Receipt | : | April 29, 2024 |
| Date of Test | : | April 29, 2024 – June 24, 2024 |
| Date of Report | : | June 24, 2024 |
| Version Number | : | V0 |
| **Result** | | **Pass** |

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# TEST REPORT DECLARATION

| | | |
|---|---|---|
| Applicant | : | Shenzhen Shadow Crown Technology Co.,Ltd. |
| Address | : | A9 East 5th floor, Industrial Building,Longwang Miao, Fuyong street, Baoan district , Shenzhen |
| Manufacturer | : | Shenzhen Shadow Crown Technology Co.,Ltd. |
| Address | : | A9 East 5th floor, Industrial Building,Longwang Miao, Fuyong street, Baoan district , Shenzhen |
| EUT Description | : | LED Projector |
| | (A) Model No. | : ONO3Pro, YG381, YG381M, YG391, YG371, YG561, YG211, L61Pro |
| | (B) Trademark | : N/A |

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart E**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

| | | |
|---|---|---|
| Tested by (name + signature).....: | Yannis Wen<br>Project Engineer | Yannis Wen |
| Approved by (name + signature)…....: | Jack Xu<br>Project Manager | Jack Xu |
| Date of issue……..: | June 24, 2024 | |

**Revision History**

| Revision | Issue Date | Revisions | Revised By |
|---|---|---|---|
| V0 | June 24, 2024 | Initial released Issue | Yannis Wen |

# 1 Test Summary

| Test Item | Section in CFR 47 | Result |
|---|---|---|
| Antenna requirement | Section 15.203 Section 7.1.4 | PASS |
| AC Power Line Conducted Emission | Section 15.207 Section 7.2.4 | PASS |
| Peak Transmit Power | Section 15.407(a) | PASS |
| Power Spectral Density | Section 15.407(a) | PASS |
| Undesirable Emission | Section 15.407(b) | PASS |
| 26dB/6dB&99% Bandwidth | Section 15.407 | PASS |
| Radiated Emission | Section 15.407(b)&15.209 Section 5.5 | PASS |
| Band Edge | 15.205, ANSI C63.10 | PASS |
| Frequency Stability | 15.407(f) | PASS |

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

## 1.1 Measurement Uncertainty

| Item | Uncertainty |
|---|---|
| Uncertainty for Power point Conducted Emissions Test | 1.63dB |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz) | 3.5dB |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.74dB(Polarize: V) |
| | 3.76dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 3.77dB(Polarize: V) |
| | 3.80dB(Polarize: H) |
| Uncertainty for radio frequency | $5.06\times10^{-8}$GHz |
| Uncertainty for conducted RF Power | 0.40dB |
| Uncertainty for temperature | 0.2℃ |
| Uncertainty for humidity | 1% |
| Uncertainty for DC and low frequency voltages | 0.06% |

# 2 General Information

## 2.1 General Description of EUT

| | | |
|---|---|---|
| EUT Name | : | LED Projector |
| Model No. | : | ONO3Pro, YG381, YG381M, YG391, YG371, YG561, YG211, L61Pro |
| DIFF. | : | There is no difference between the models except the appearance color. So all the test were performed on the model ONO3Pro. |
| Power supply | : | AC 120V/60Hz |
| Radio Technology | : | 5G WIFI |
| Operation Frequency | : | 802.11a/n(HT20)/ac(VHT20): 5180~5240MHz; 5745~5825MHz<br>802.11n(HT40)/ac(VHT40): 5190~5230MHz; 5755~5795MHz<br>802.11ac(VHT80): 5210MHz, 5775MHz |
| Channel separation | : | 20MHz for 802.11a/ 802.11ac(VHT20)/ 802.11n(HT20)<br>40MHz for 802.11ac(VHT40)/ 802.11n(HT40)<br>80MHz for 802.11ac(VHT80) |
| Modulation technology: | : | IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Antenna Type | : | Internal Antenna 1, max gain 5.83dBi,<br>Internal Antenna 2, max gain 5.83dBi,<br>The antenna MIMO combining gain is 8.84dBi.<br>(Antenna information is provided by applicant.) |
| Software version | : | V1.0 |
| Hardware version | : | V1.0 |
| Intend use environment | : | Residential, commercial and light industrial environment |

1. The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 5G Wi-Fi function, and there is no other transmitter involved.

## 2.2 Test mode

Transmitting mode Keep the EUT in transmitting with modulation.
EUT was test with maximum power control level.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

**U-NII-1:**

| Tested mode, channel, and data rate information | | | |
|---|---|---|---|
| Mode | Data rate(Mbps) see Note | Channel | Frequency (MHz) |
| IEEE 802.11a | 6 | CH36 | 5180 |
| | 6 | CH44 | 5200 |
| | 6 | CH48 | 5240 |
| IEEE 802.11ac VHT20 | 6.5 | CH36 | 5180 |
| | 6.5 | CH44 | 5200 |
| | 6.5 | CH48 | 5240 |
| IEEE 802.11ac VHT40 | 13.5 | CH38 | 5190 |
| | 13.5 | CH46 | 5230 |
| IEEE 802.11ac VHT80 | 433.3 | CH42 | 5210 |
| IEEE 802.11n HT20 | 6.5 | CH36 | 5180 |
| | 6.5 | CH44 | 5200 |
| | 6.5 | CH48 | 5240 |
| IEEE 802.11n HT40 | 13.5 | CH38 | 5190 |
| | 13.5 | CH46 | 5230 |
| Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test. | | | |

**U-NII-3:**

| Keeping TX mode | | | |
|---|---|---|---|
| Mode | data rate (Mpbs) (see Note) | Channel | Frequency (MHz) |
| IEEE 802.11a | 6 | CH149 | 5745 |
| | 6 | CH157 | 5785 |
| | 6 | CH165 | 5825 |
| IEEE 802.11ac VHT20 | 6.5 | CH149 | 5745 |
| | 6.5 | CH157 | 5785 |
| | 6.5 | CH165 | 5825 |
| IEEE 802.11 n/HT20 | 6.5 | CH149 | 5745 |
| | 6.5 | CH157 | 5785 |
| | 6.5 | CH165 | 5825 |
| IEEE 802.11ac VHT40 | 13.5 | CH151 | 5755 |
| | 13.5 | CH159 | 5795 |
| IEEE 802.11 n/HT40 | 13.5 | CH151 | 5755 |
| | 13.5 | CH159 | 5795 |
| IEEE 802.11ac VHT80 | 433.3 | CH155 | 5775 |
| Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test. | | | |

## 2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 25, 2017 Certificated by IC
Registration Number: 12135A

## 2.4 Description of Support Units

Accessories : Remote control
Manufacturer : Shenzhen Shadow Crown Technology Co.,Ltd.
Model : /
INPUT : /
OUTPUT : /

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.

## 2.7 Other Information Requested by the Customer

None.

## 2.8 Additional instructions

Software (Used for test) from client

| Channel | Power level |
|---|---|
| Lowest | Default |
| Middle | Default |
| Highest | Default |

# 3 Test Instruments list

| Equipment | Manufacture | Model No. | Firmware version | Serial No. | Last cal. | Cal Interval |
|---|---|---|---|---|---|---|
| 9*6*6 anechoic chamber | CHENYU | 9*6*6 | / | N/A | 2022.05.17 | 3Year |
| Spectrum analyzer | ROHDE&SCHWARZ | FSV40-N | 2.3 | 102137 | 2023.08.16 | 1Year |
| Spectrum analyzer | Agilent | N9020A | A.14.16 | MY499100060 | 2023.08.16 | 1Year |
| Receiver | ROHDE&SCHWARZ | ESR | 2.28 SP1 | 1316.3003K03-102082-Wa | 2023.08.16 | 1Year |
| Receiver | R&S | ESCI | 4.42 SP1 | 101165 | 2023.08.16 | 1Year |
| Bilog Antenna | Schwarzbeck | VULB 9168 | / | VULB 9168#627 | 2023.08.28 | 1Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | / | 2106 | 2023.08.19 | 1Year |
| Loop Antenna | SCHWARZBECK | FMZB 1519B | / | 00128 | 2023.08.19 | 1Year |
| RF Cable | Resenberger | Cable 1 | / | RE1 | 2023.08.16 | 1Year |
| RF Cable | Resenberger | Cable 2 | / | RE2 | 2023.08.16 | 1Year |
| RF Cable | Resenberger | Cable 3 | / | CE1 | 2023.08.16 | 1Year |
| Pre-amplifier | HP | HP8347A | / | 2834A00455 | 2023.08.16 | 1Year |
| Pre-amplifier | Agilent | 8449B | / | 3008A02664 | 2023.08.16 | 1Year |
| L.I.S.N.#1 | Schwarzbeck | NSLK8126 | / | 8126-466 | 2023.08.16 | 1Year |
| L.I.S.N.#2 | ROHDE&SCHWARZ | ENV216 | / | 101043 | 2023.08.16 | 1Year |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | / | 00946 | 2023.08.19 | 1Year |
| Preamplifier | SKET | LNPA_1840-50 | / | SK2018101801 | 2023.08.16 | 1 Year |
| Power Meter | Agilent | E9300A | / | MY41496628 | 2023.08.16 | 1 Year |
| Power Sensor | DARE | RPR3006W | / | 15100041SNO91 | 2023.08.16 | 1 Year |
| Temp. & Humid. Chamber | Teelong | TL-HW408S | / | TL-20191205-01 | 2023.07.25 | 1 Year |
| Switching Mode Power Supply | JUNKE | JK12010S | / | 20140927-6 | 2023.08.16 | 1 Year |
| Adjustable attenuator | MWRFtest | N/A | / | N/A | N/A | N/A |
| 10dB Attenuator | Mini-Circuits | DC-6G | / | N/A | N/A | N/A |

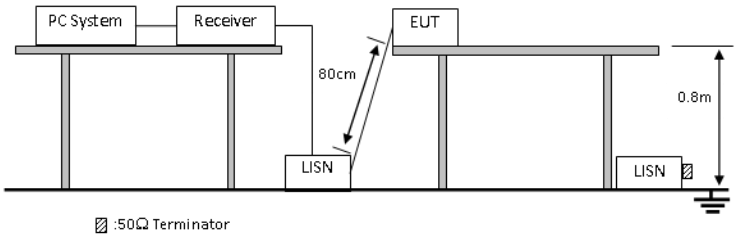
| Software Information | | | |
|---|---|---|---|
| Test Item | Software Name | Manufacturer | Version |
| RE | EZ-EMC | EZ | Alpha-3A1 |
| CE | EZ-EMC | EZ | Alpha-3A1 |
| RF-CE | MTS 8310 | MW | V2.0.0.0 |

# 4 Test results and Measurement Data

## 4.1 Antenna requirement:

| **Standard requirement:** | FCC Part15 C Section 15.203 |
|---|---|
| 15.203 requirement:<br>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, 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. | |
| **E.U.T Antenna:** | |
| The antenna is Internal antenna. The best case gain of the antenna is 5.83dBi, for 5180~5240MHz; 5745~5825MHz. | |

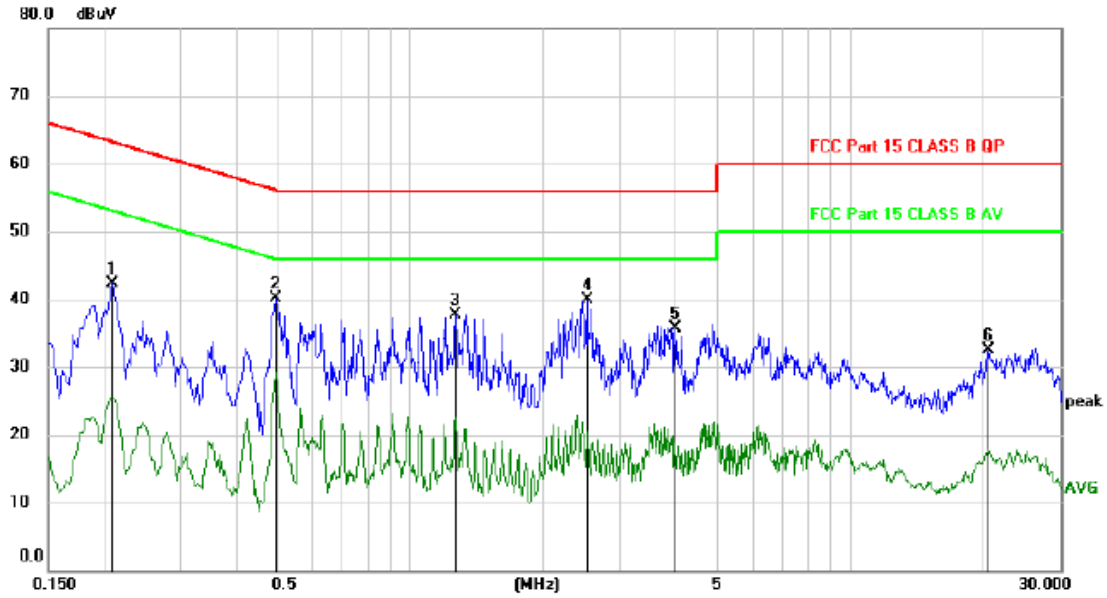
## 4.2 Conducted Emissions

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.20 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz |
| Limit: | Frequency range (MHz) / Limit (dBuV): Quasi-peak / Average<br>0.15-0.5: 66 to 56* / 56 to 46*<br>0.5-5: 56 / 46<br>5-30: 60 / 50<br>* Decreases with the logarithm of the frequency. |
| Test procedure | The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. |
| Test setup: |  |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 2.2 for details |
| Test results: | Pass |

**Measurement Data**

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

## Line:

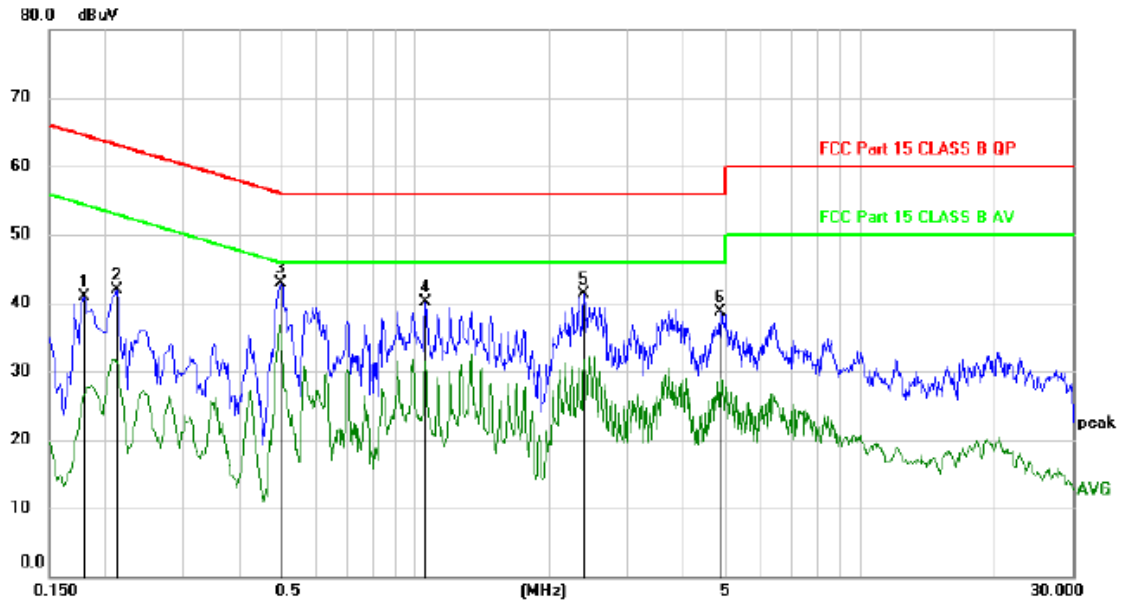



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.2100 | 32.41 | 9.93 | 42.34 | 63.21 | -20.87 | peak | |
| 2 | * | 0.4920 | 30.22 | 9.96 | 40.18 | 56.13 | -15.95 | peak | |
| 3 | | 1.2660 | 27.82 | 9.89 | 37.71 | 56.00 | -18.29 | peak | |
| 4 | | 2.5260 | 30.04 | 9.91 | 39.95 | 56.00 | -16.05 | peak | |
| 5 | | 3.9960 | 25.71 | 9.97 | 35.68 | 56.00 | -20.32 | peak | |
| 6 | | 20.6100 | 22.03 | 10.47 | 32.50 | 60.00 | -27.50 | 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

## Neutral:



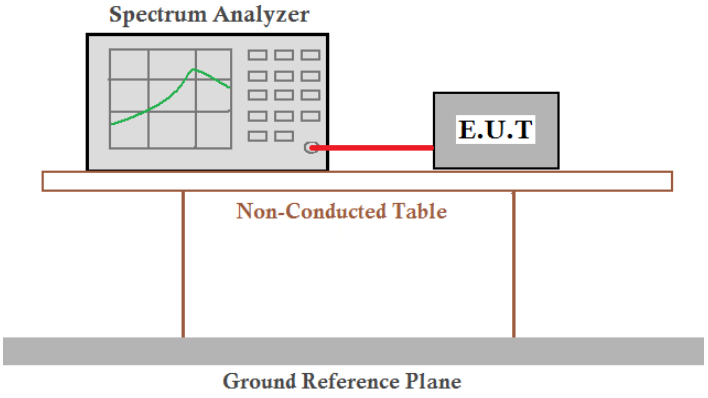

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1800 | 30.90 | 9.93 | 40.83 | 64.49 | -23.66 | peak | |
| 2 | | 0.2130 | 31.93 | 9.93 | 41.86 | 63.09 | -21.23 | peak | |
| 3 | * | 0.4980 | 32.94 | 9.96 | 42.90 | 56.03 | -13.13 | peak | |
| 4 | | 1.0530 | 30.14 | 9.91 | 40.05 | 56.00 | -15.95 | peak | |
| 5 | | 2.3909 | 31.33 | 9.90 | 41.23 | 56.00 | -14.77 | peak | |
| 6 | | 4.8390 | 28.67 | 10.02 | 38.69 | 56.00 | -17.31 | 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

Note: All modes of two antennas have been tested, and only shown the worst case mode in this report. (**a 5180MHz for antenna 1)**

## 4.3 Emission Bandwidth and 99% Occupied Bandwidth

| | |
|---|---|
| Test Requirement: | FCC Part15 E Section 15.407 |
| Test Method: | KDB 789033 D02 General UNII Test Procedures New Rules v02r01 |
| Limit: | >500kHz for 6 dB bandwidth |
| Test setup: |  |
| Test procedure: | According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01. |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 2.2 for details |
| Test results: | Pass |

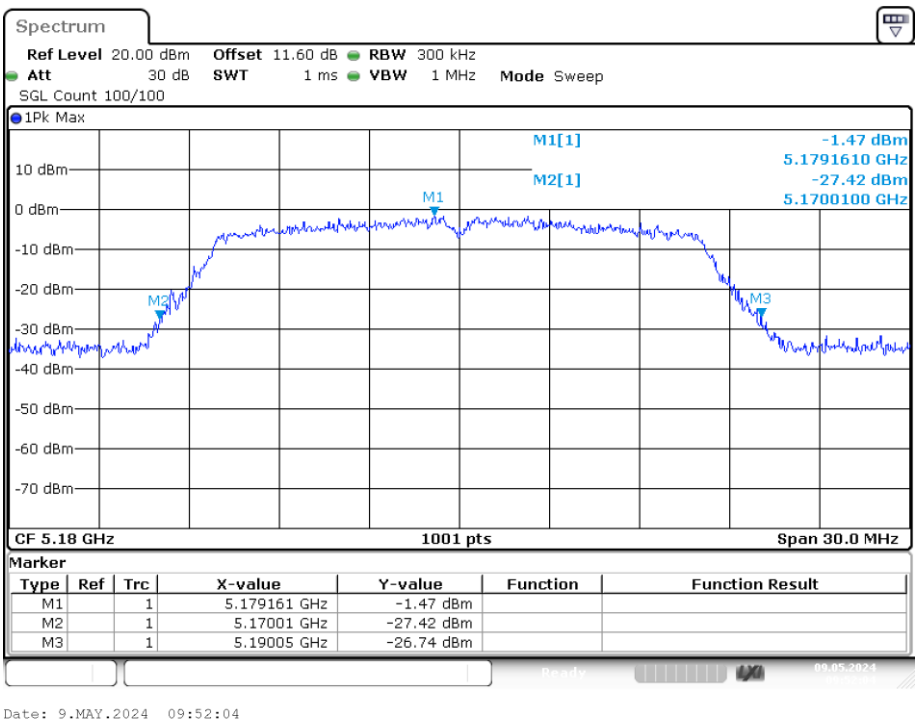
**Measurement Data:**

**Band 1 (5150-5250 MHz):**

**-26dB Bandwidth**

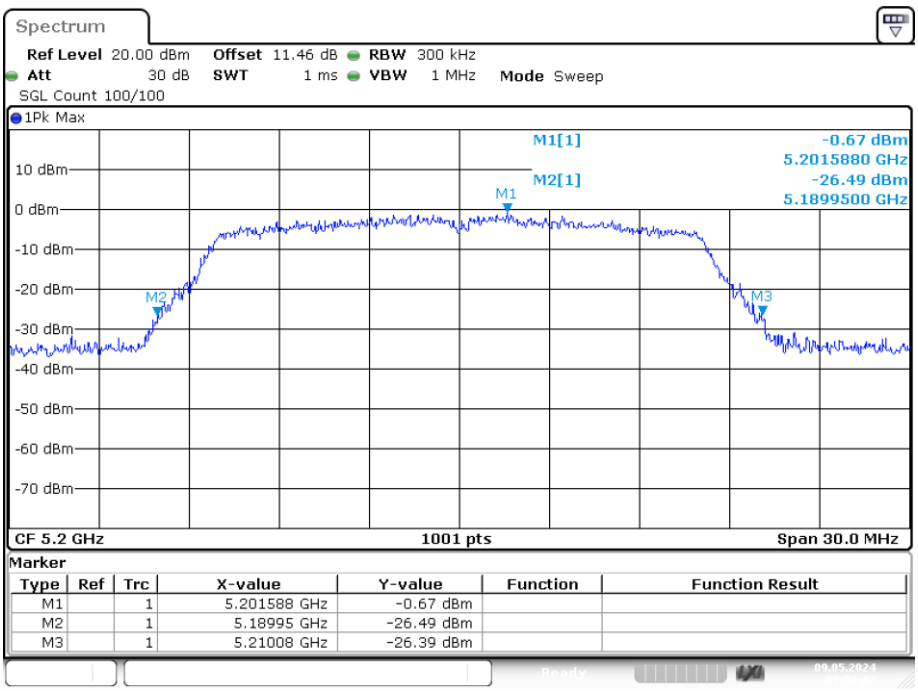
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 20.04 | Pass |
| NVNT | a | 5200 | Ant1 | 20.13 | Pass |
| NVNT | a | 5240 | Ant1 | 20.01 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 20.52 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 20.4 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 20.43 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 40.44 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 40.44 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 80.16 | Pass |
| NVNT | n20 | 5180 | Ant1 | 20.52 | Pass |
| NVNT | n20 | 5200 | Ant1 | 20.43 | Pass |
| NVNT | n20 | 5240 | Ant1 | 20.25 | Pass |
| NVNT | n40 | 5190 | Ant1 | 40.38 | Pass |
| NVNT | n40 | 5230 | Ant1 | 40.5 | Pass |

-26dB Bandwidth NVNT a 5180MHz Ant1



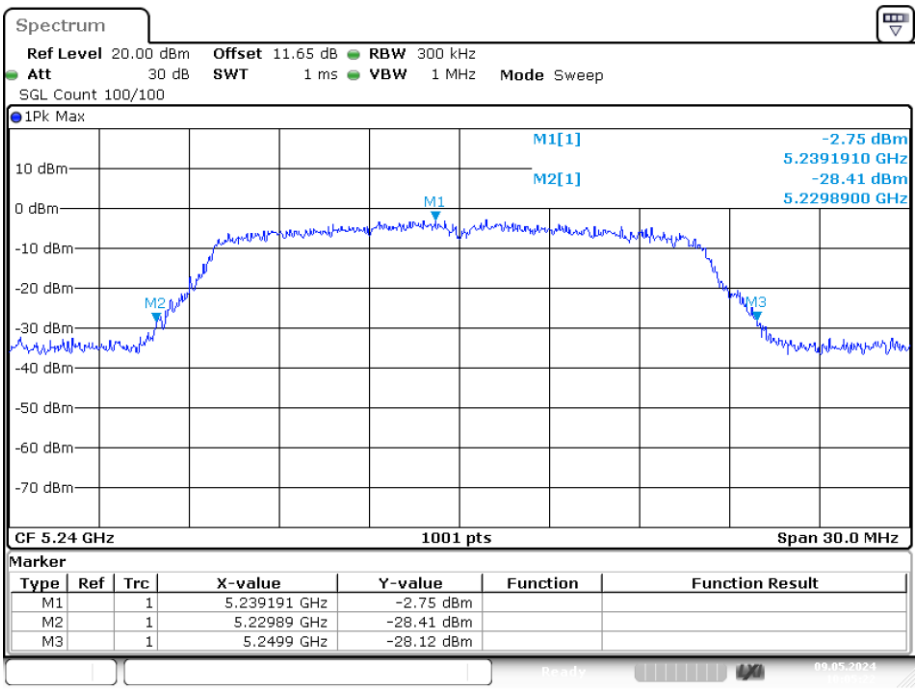

Date: 9.MAY.2024 09:52:04

-26dB Bandwidth NVNT a 5200MHz Ant1



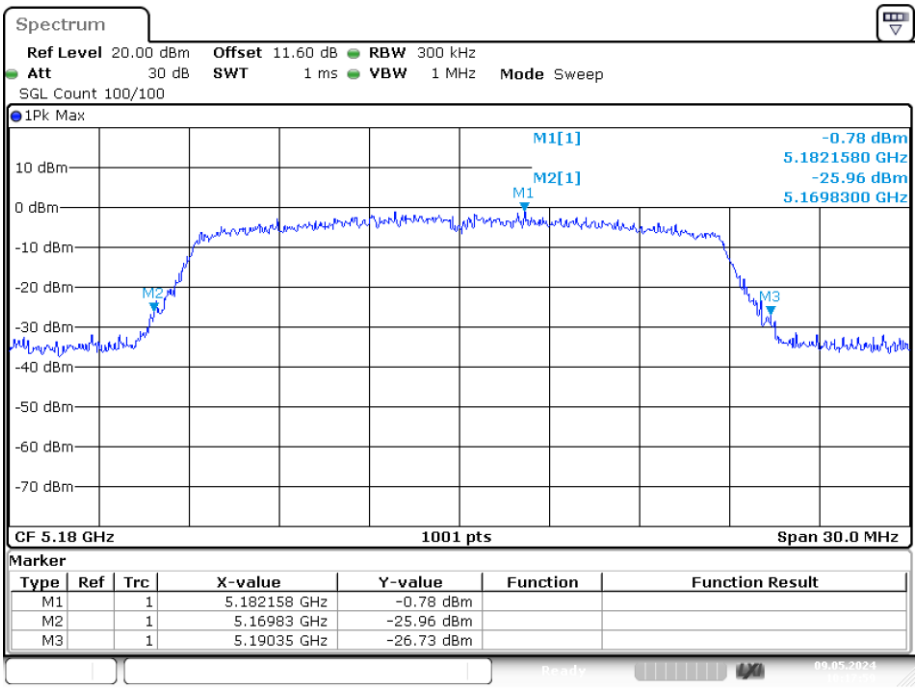

Date: 9.MAY.2024 09:57:02

-26dB Bandwidth NVNT a 5240MHz Ant1



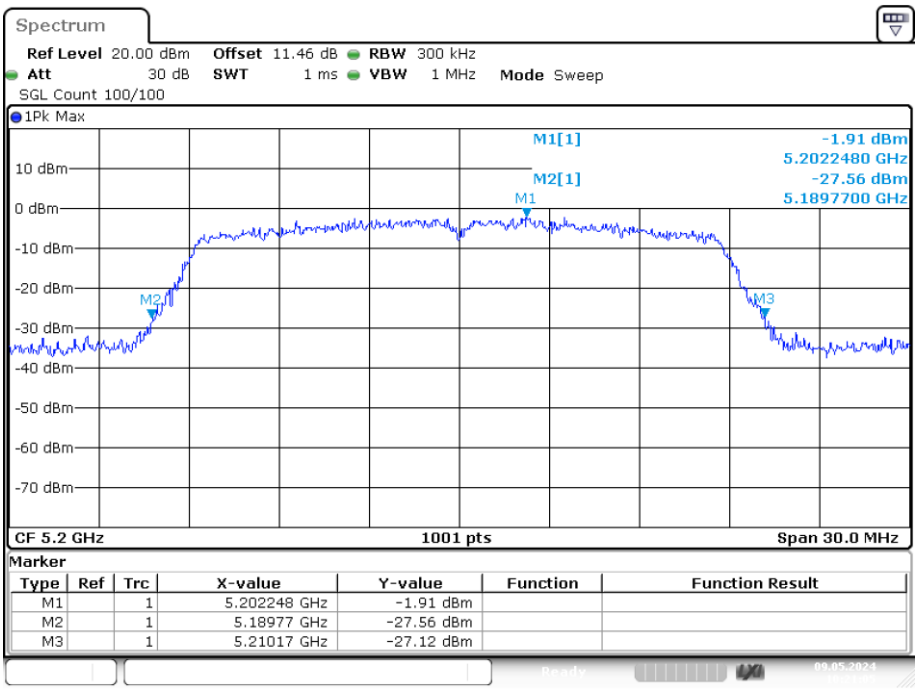

Date: 9.MAY.2024 10:05:21

-26dB Bandwidth NVNT ac20 5180MHz Ant1




Date: 9.MAY.2024 10:17:58

-26dB Bandwidth NVNT ac20 5200MHz Ant1

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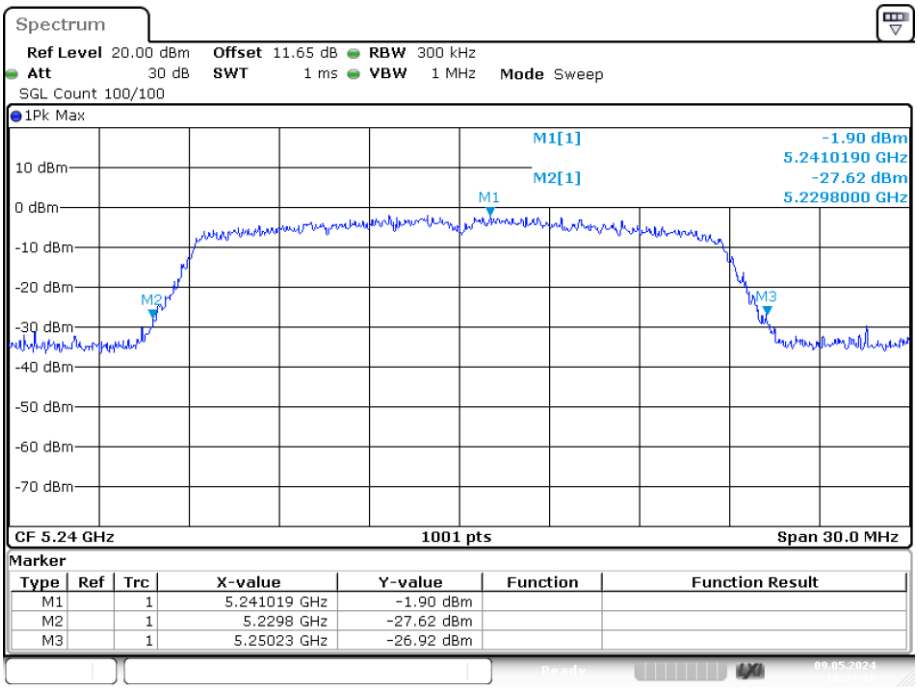
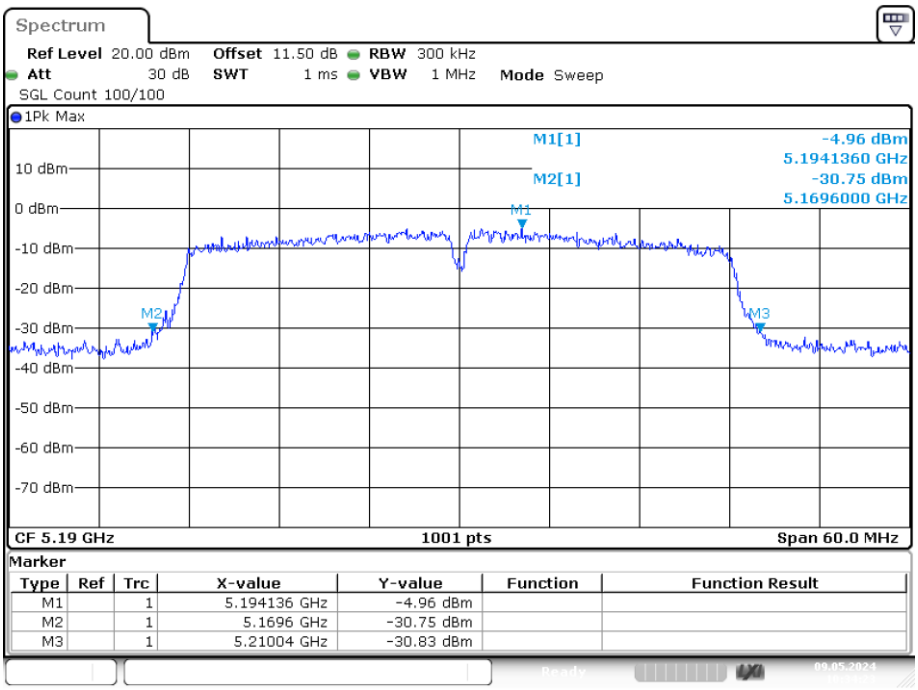
-26dB Bandwidth NVNT ac20 5240MHz Ant1



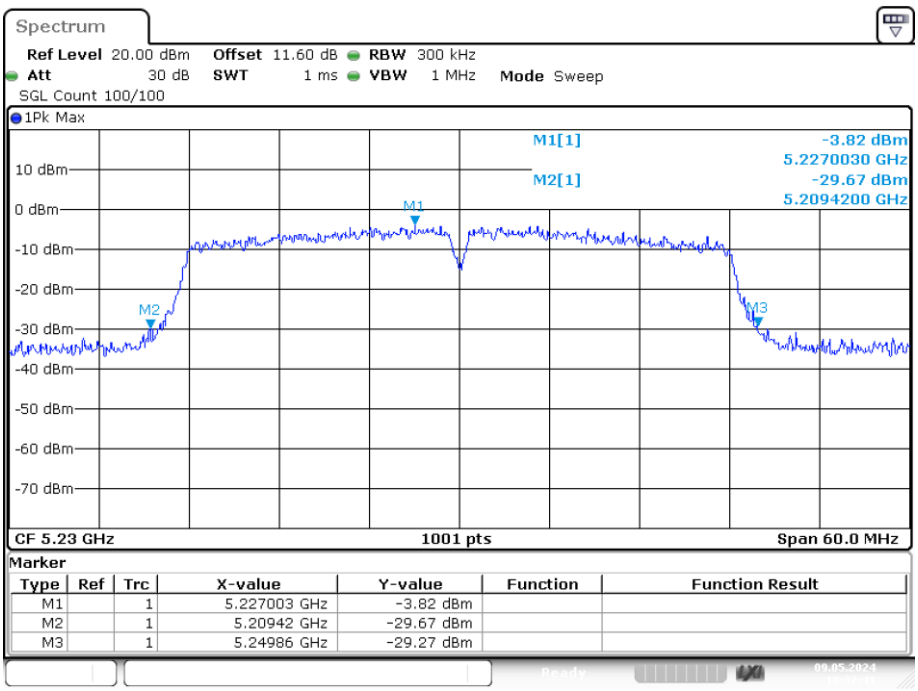

Date: 9.MAY.2024 10:24:16

-26dB Bandwidth NVNT ac40 5190MHz Ant1



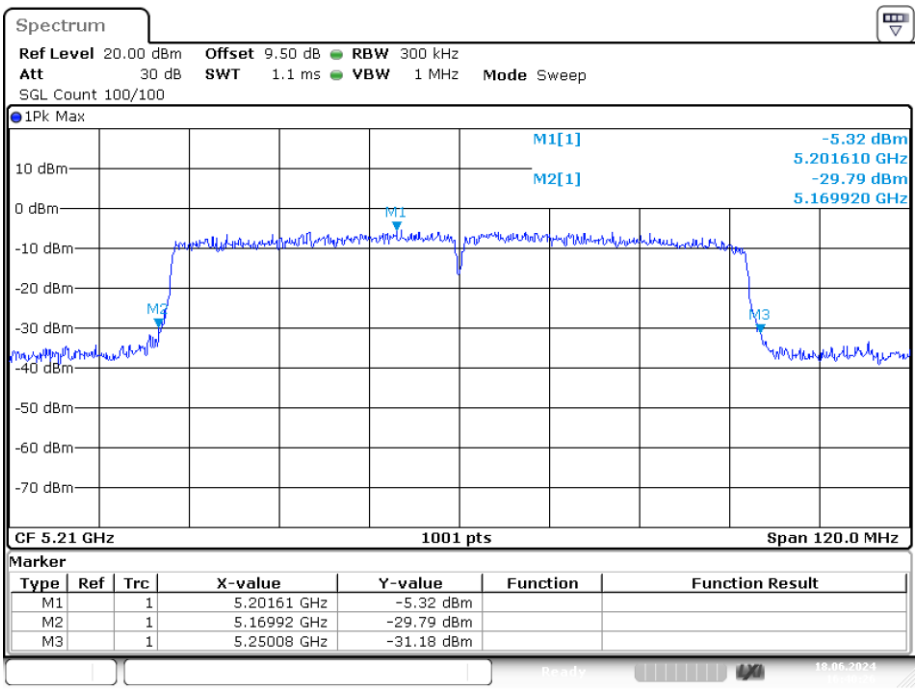

Date: 9.MAY.2024 10:34:24

-26dB Bandwidth NVNT ac40 5230MHz Ant1



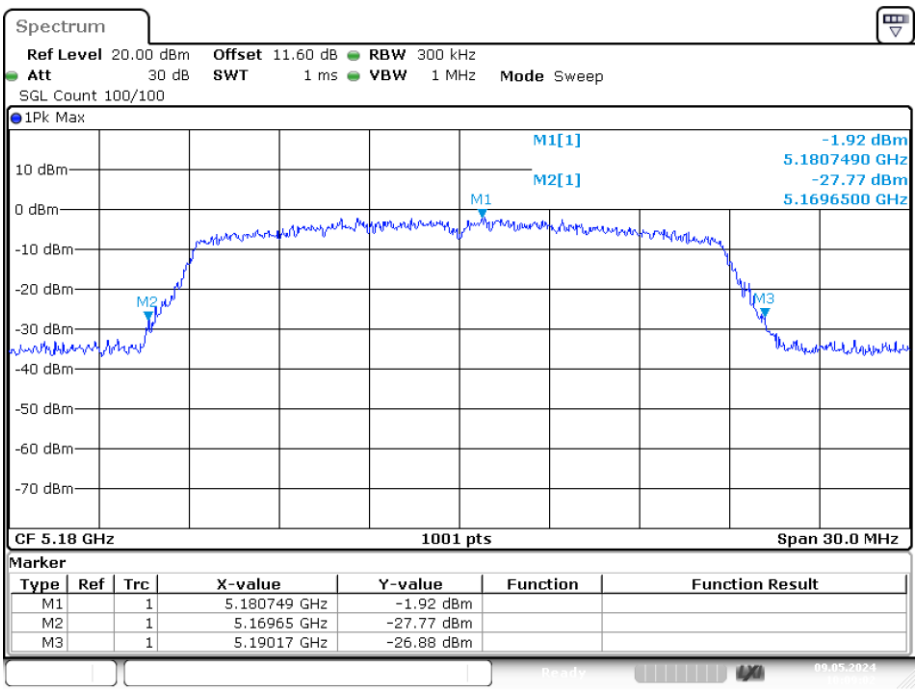

Date: 9.MAY.2024 10:37:41

-26dB Bandwidth NVNT ac80 5210MHz Ant1



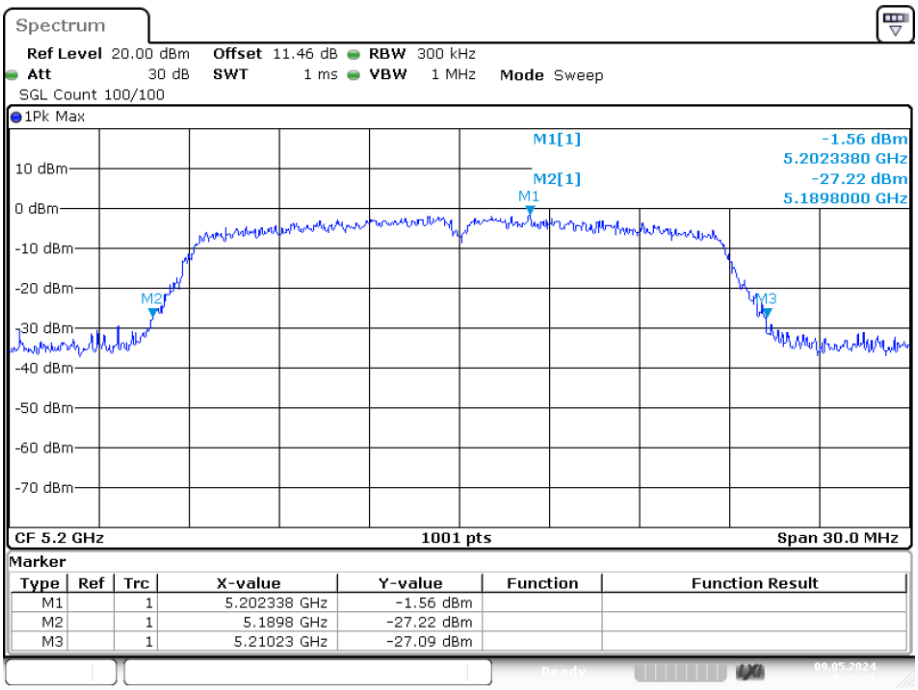

Date: 18.JUN.2024 16:40:26

-26dB Bandwidth NVNT n20 5180MHz Ant1



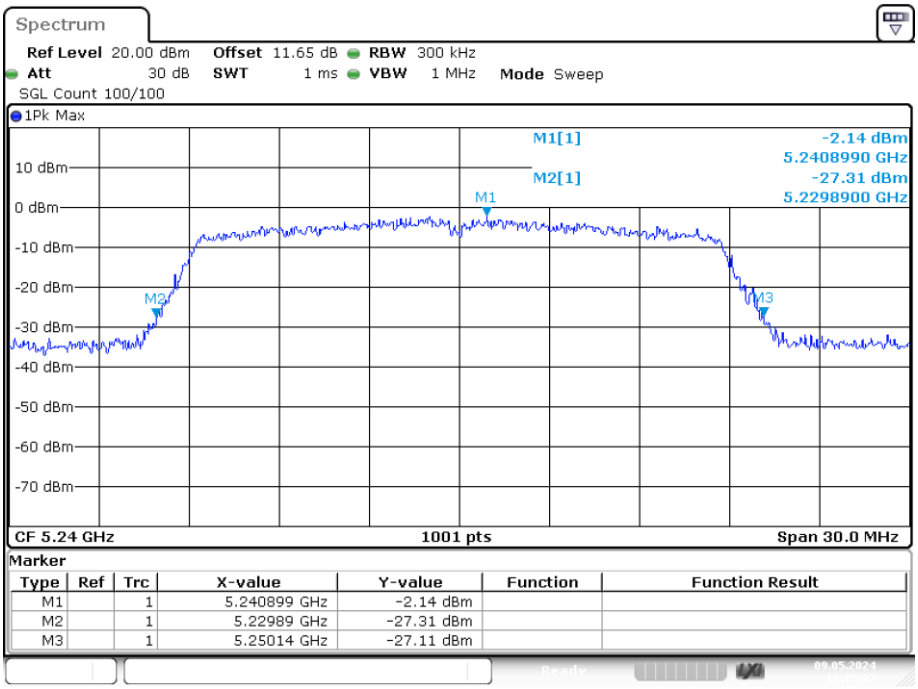

Date: 9.MAY.2024 10:09:02

-26dB Bandwidth NVNT n20 5200MHz Ant1



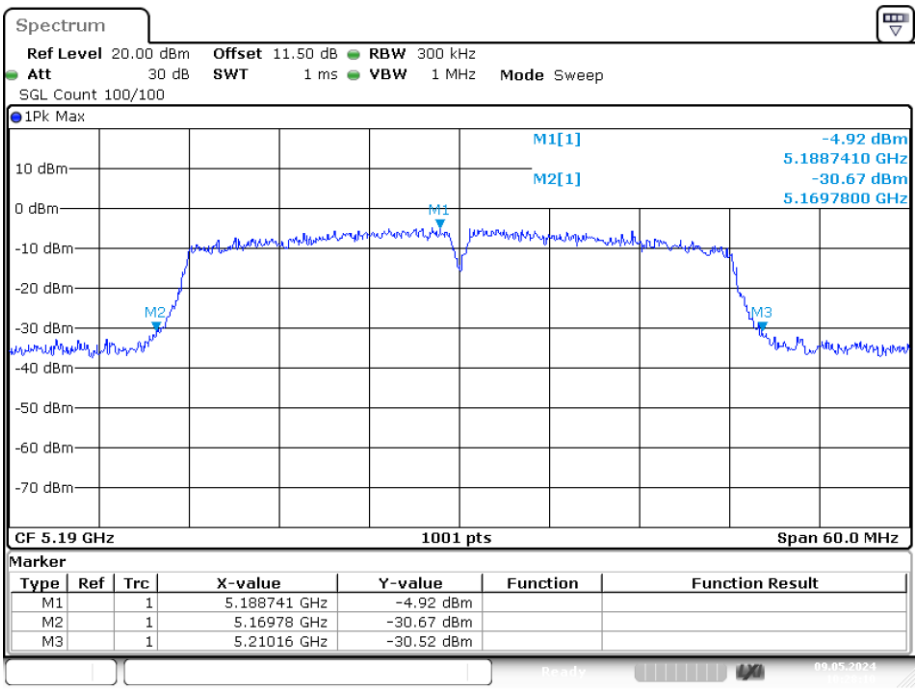

Date: 9.MAY.2024 10:12:10

-26dB Bandwidth NVNT n20 5240MHz Ant1



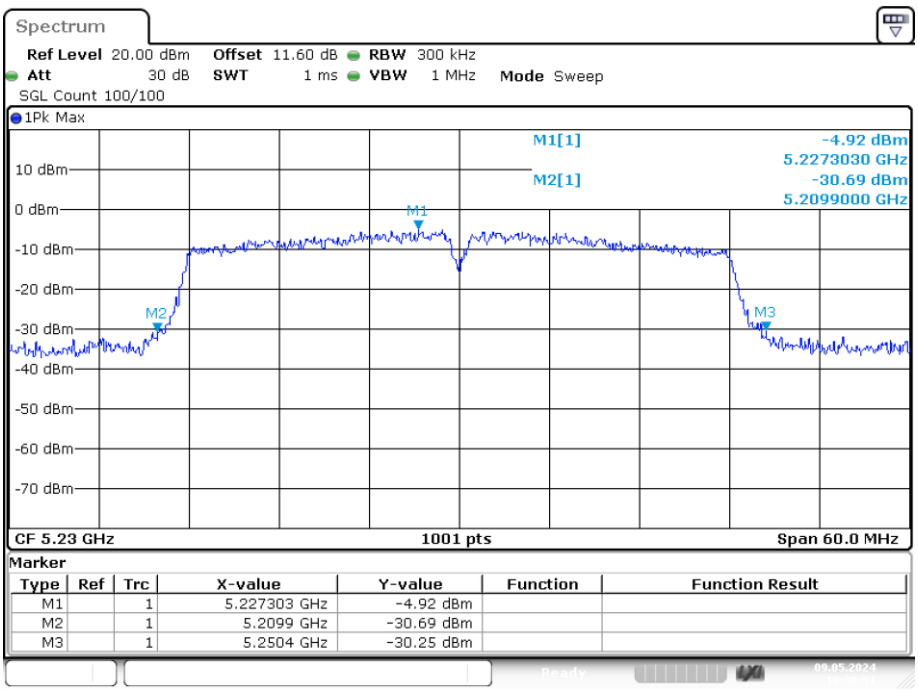

Date: 9.MAY.2024 10:15:06

-26dB Bandwidth NVNT n40 5190MHz Ant1




Date: 9.MAY.2024 10:28:09

-26dB Bandwidth NVNT n40 5230MHz Ant1

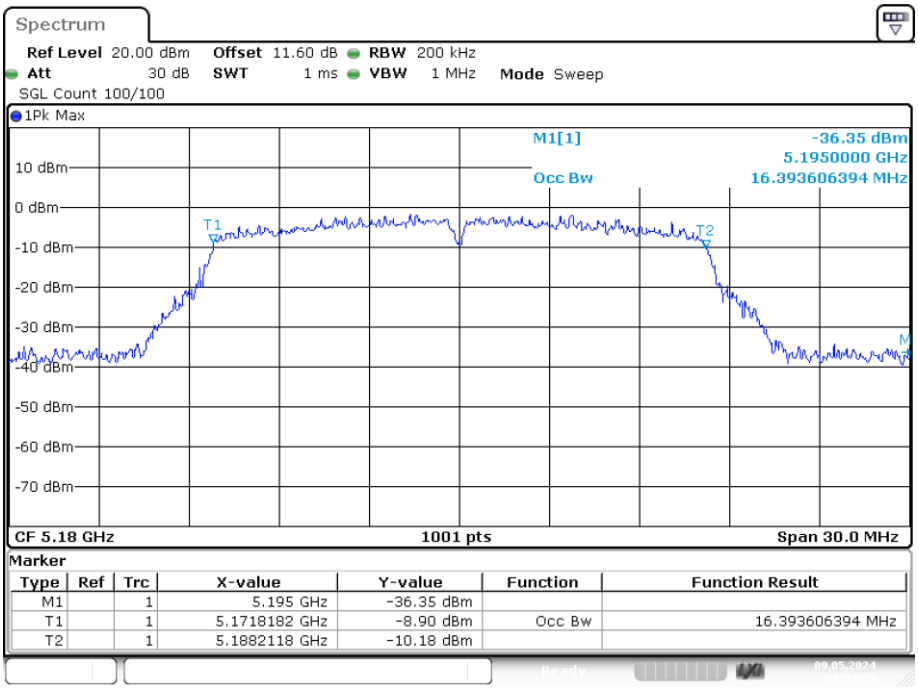



Date: 9.MAY.2024 10:30:51

**Occupied Channel Bandwidth**

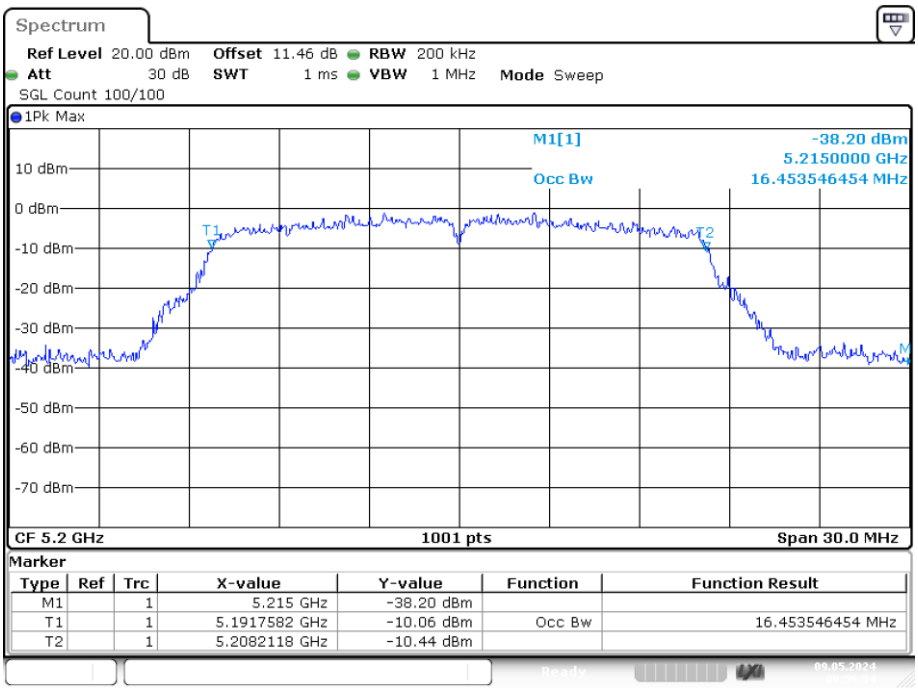
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 16.394 |
| NVNT | a | 5200 | Ant1 | 16.454 |
| NVNT | a | 5240 | Ant1 | 16.424 |
| NVNT | ac20 | 5180 | Ant1 | 17.562 |
| NVNT | ac20 | 5200 | Ant1 | 17.562 |
| NVNT | ac20 | 5240 | Ant1 | 17.562 |
| NVNT | ac40 | 5190 | Ant1 | 36.084 |
| NVNT | ac40 | 5230 | Ant1 | 36.084 |
| NVNT | ac80 | 5210 | Ant1 | 75.524 |
| NVNT | n20 | 5180 | Ant1 | 17.532 |
| NVNT | n20 | 5200 | Ant1 | 17.592 |
| NVNT | n20 | 5240 | Ant1 | 17.592 |
| NVNT | n40 | 5190 | Ant1 | 36.024 |
| NVNT | n40 | 5230 | Ant1 | 36.084 |

OBW NVNT a 5180MHz Ant1



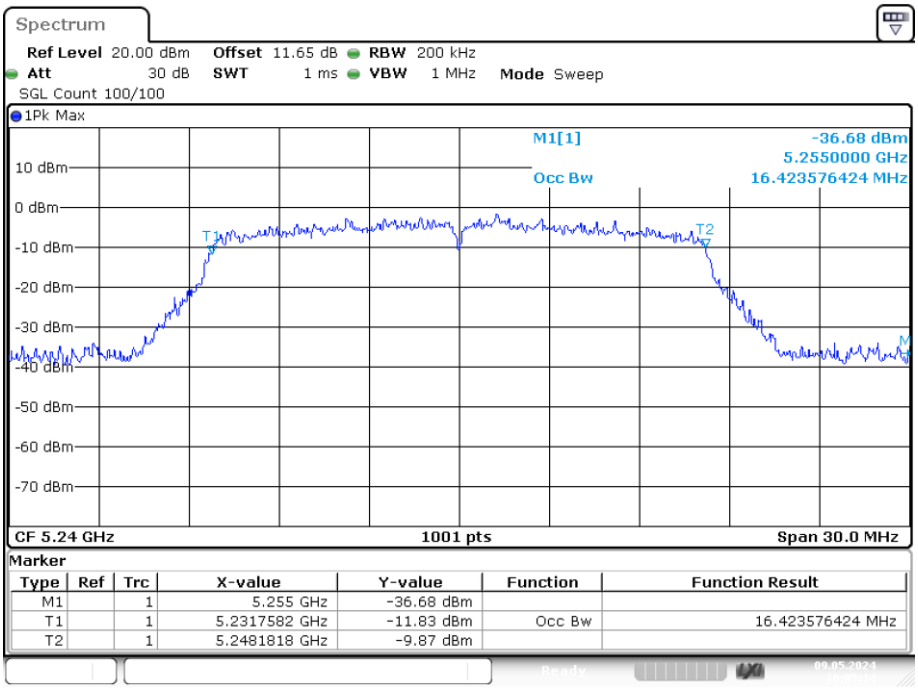

Date: 9.MAY.2024 09:51:55

OBW NVNT a 5200MHz Ant1



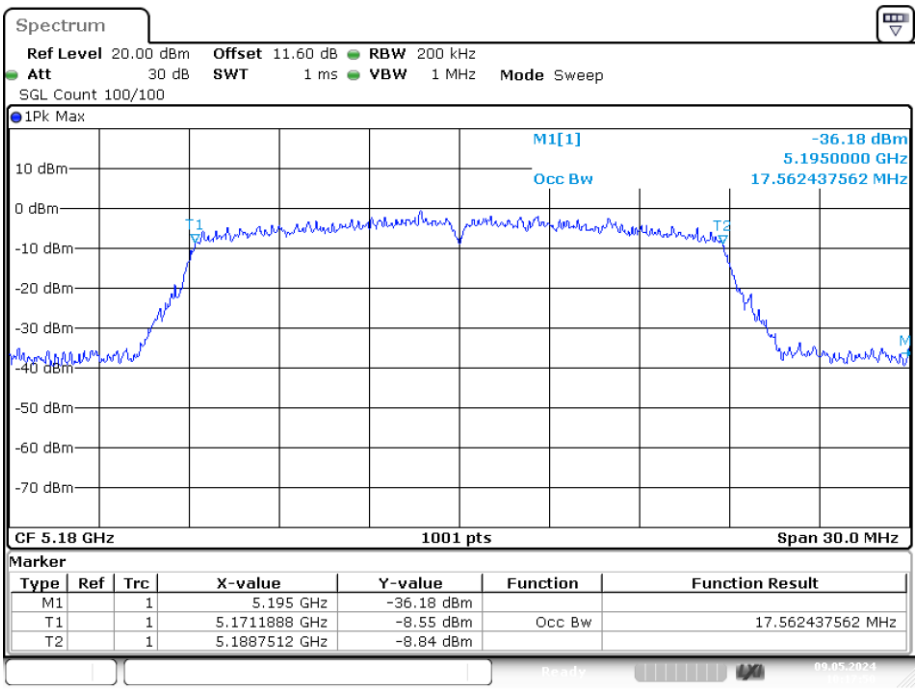

Date: 9.MAY.2024 09:56:54

OBW NVNT a 5240MHz Ant1



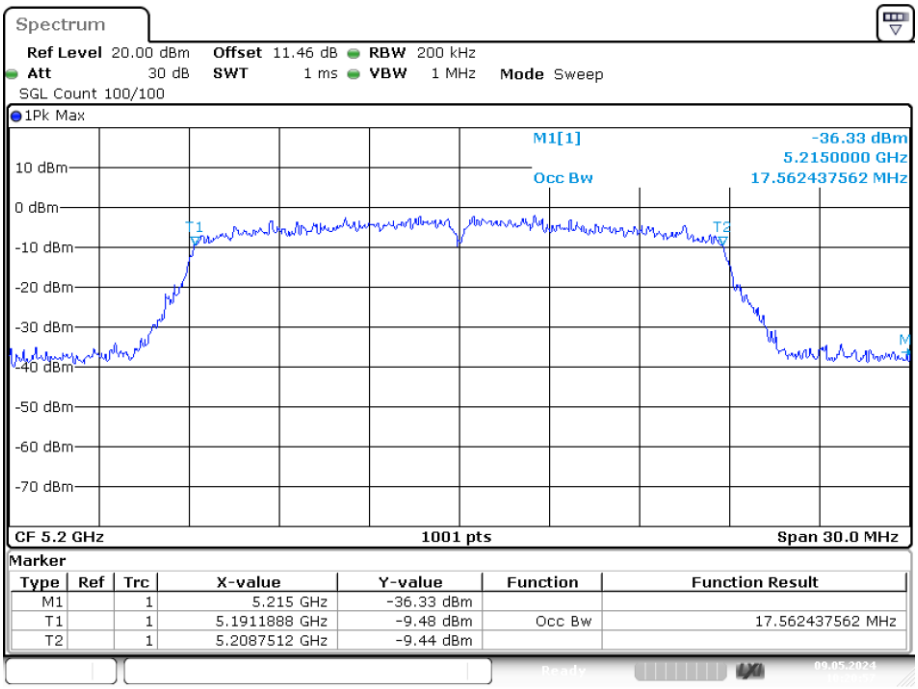

Date: 9.MAY.2024 10:05:13

OBW NVNT ac20 5180MHz Ant1



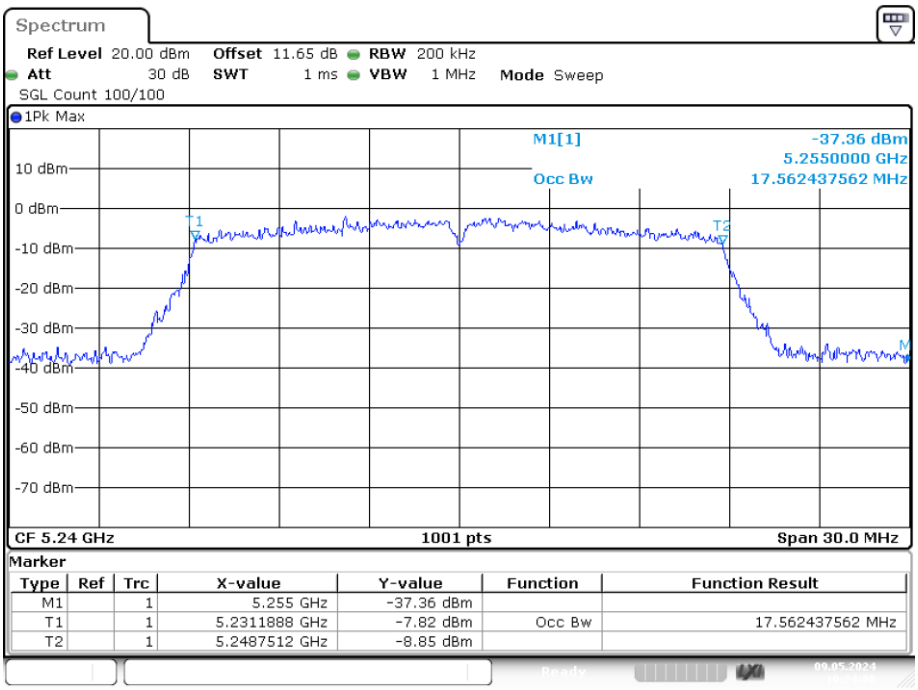

Date: 9.MAY.2024 10:17:49

OBW NVNT ac20 5200MHz Ant1



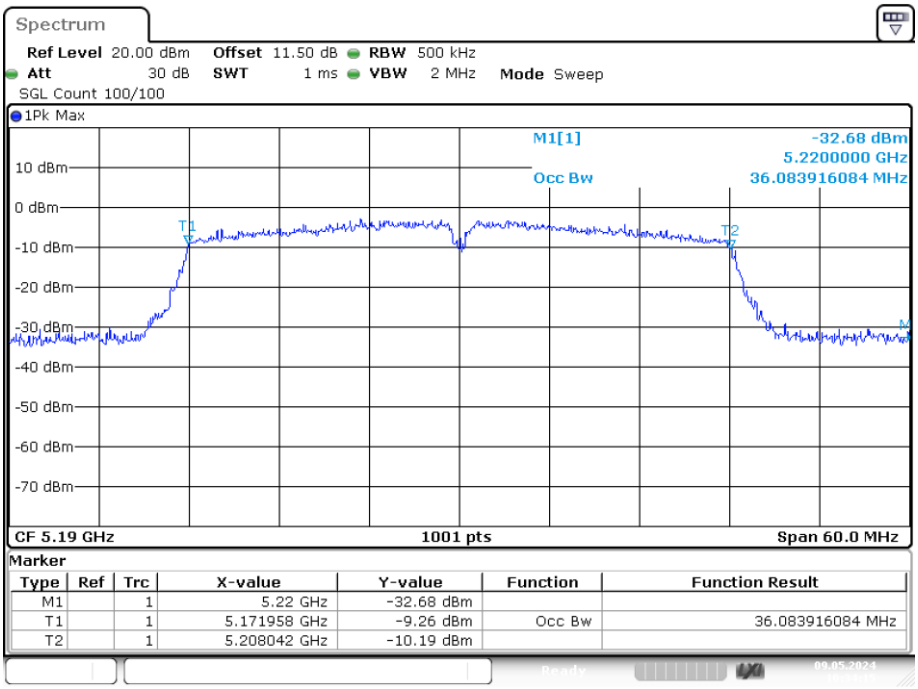

Date: 9.MAY.2024 10:20:57

OBW NVNT ac20 5240MHz Ant1



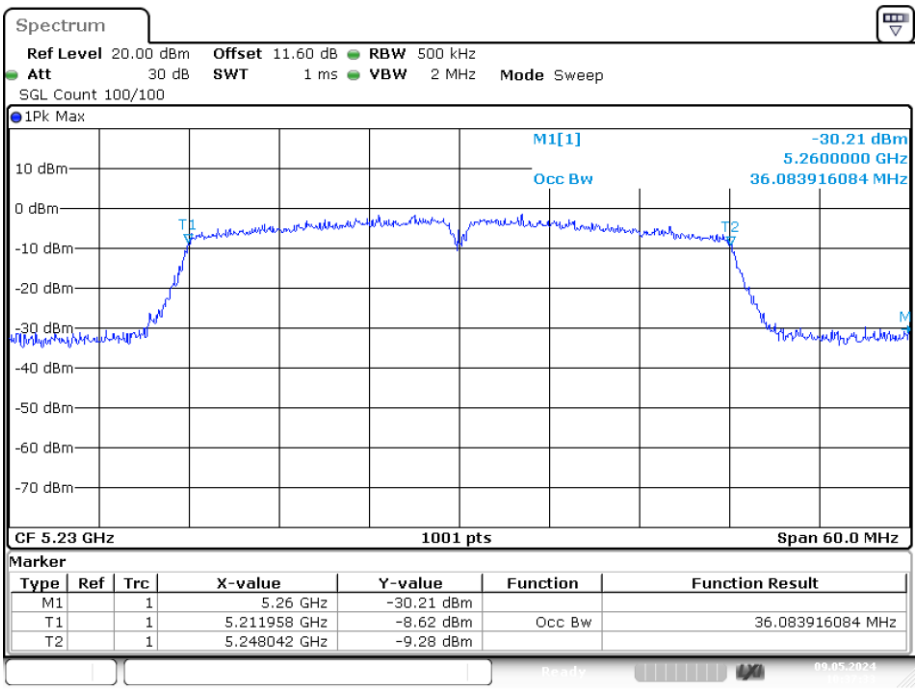

Date: 9.MAY.2024 10:24:08

OBW NVNT ac40 5190MHz Ant1



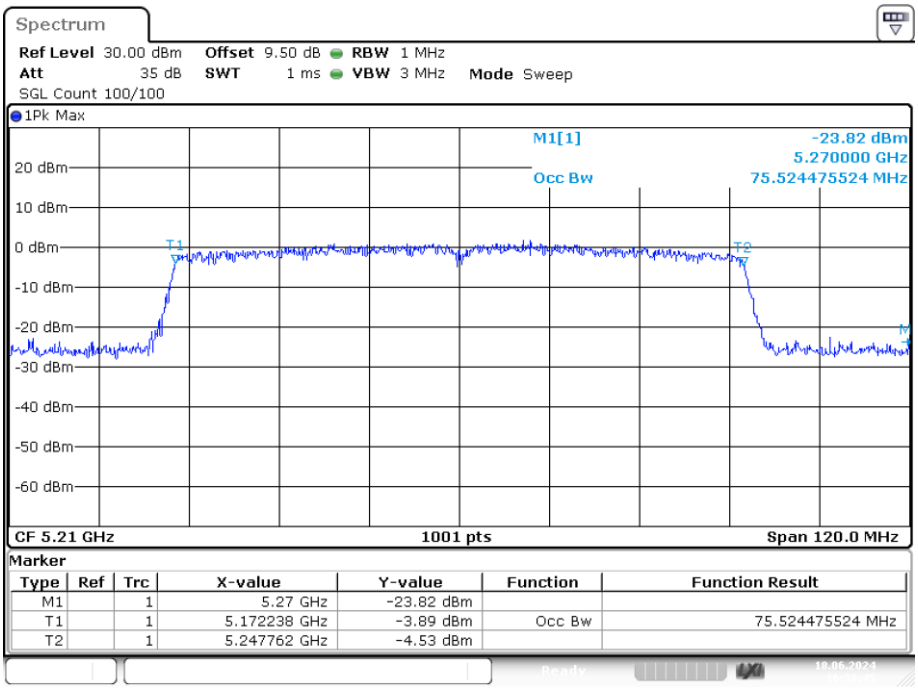

Date: 9.MAY.2024 10:34:15

OBW NVNT ac40 5230MHz Ant1



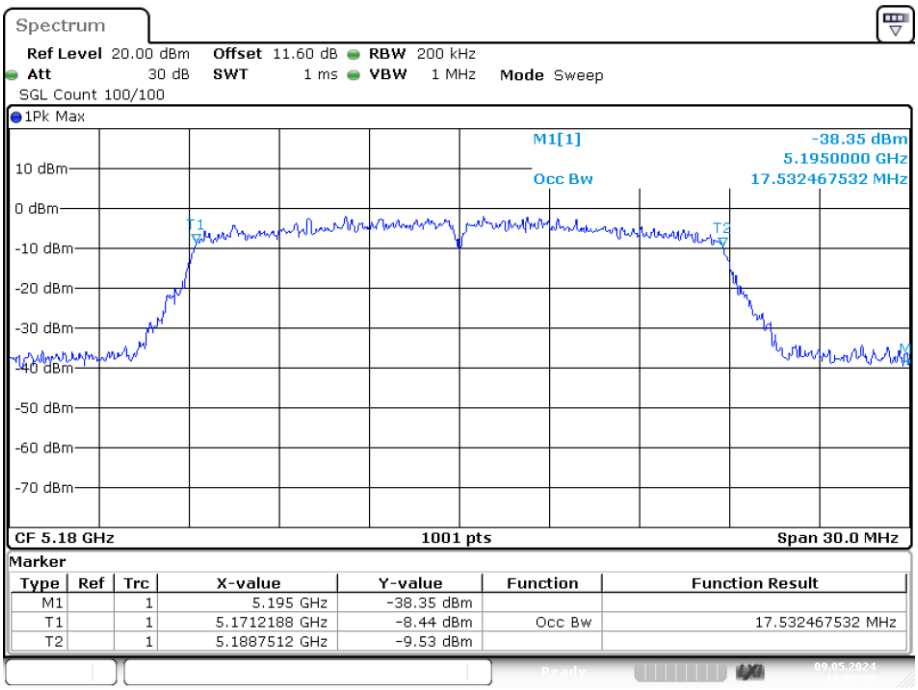

Date: 9.MAY.2024 10:37:33

OBW NVNT ac80 5210MHz Ant1



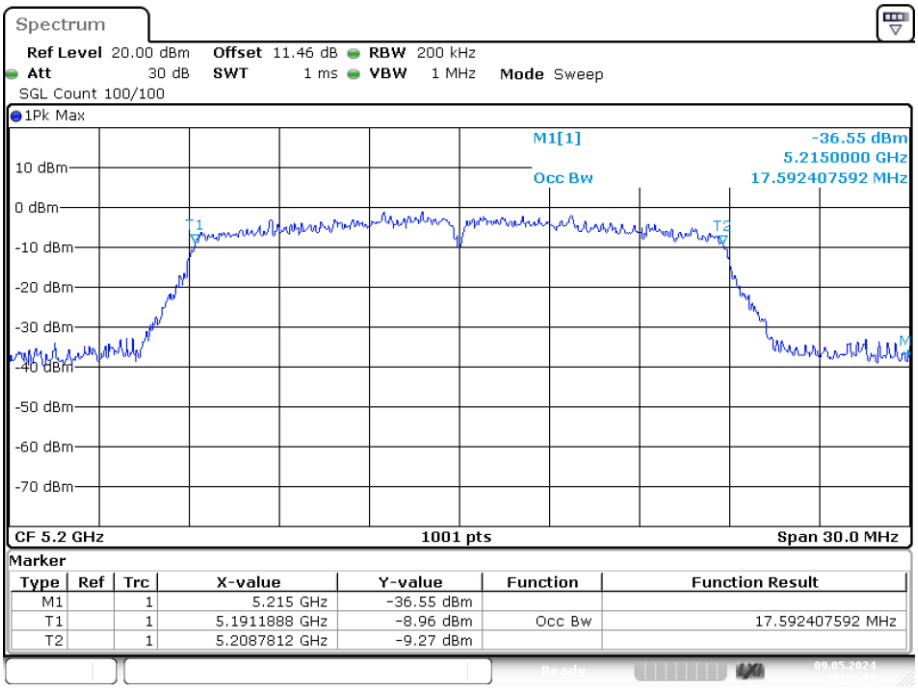

Date: 18.JUN.2024 16:38:45

OBW NVNT n20 5180MHz Ant1



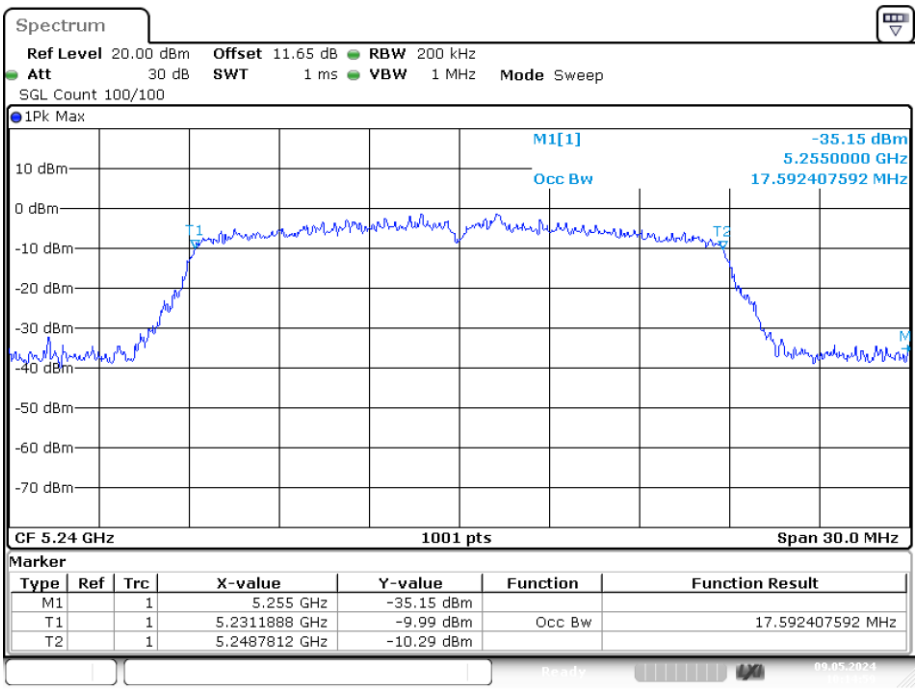

Date: 9.MAY.2024 10:08:53

OBW NVNT n20 5200MHz Ant1



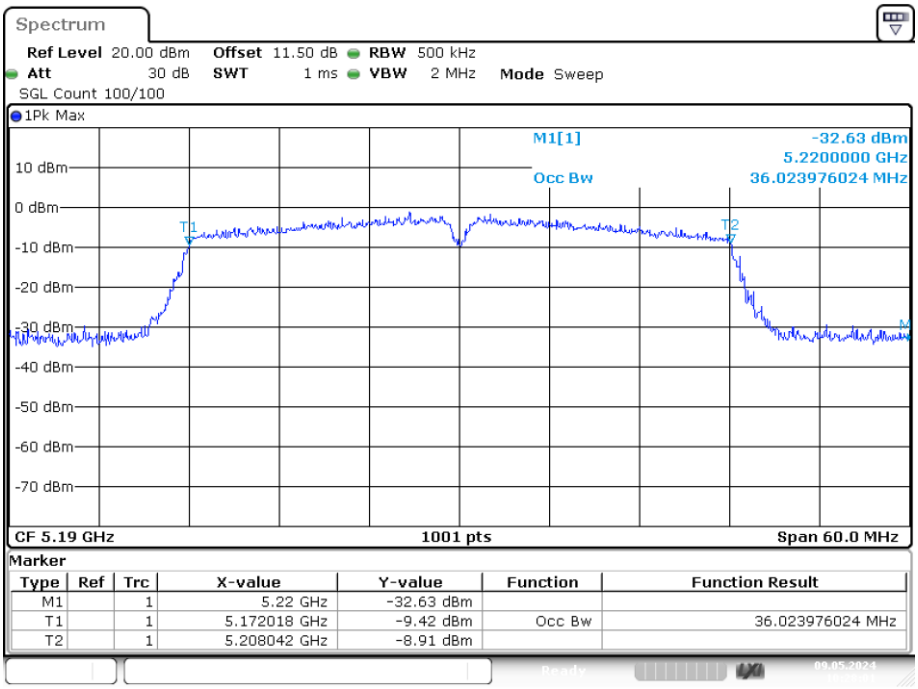

Date: 9.MAY.2024 10:12:02

OBW NVNT n20 5240MHz Ant1



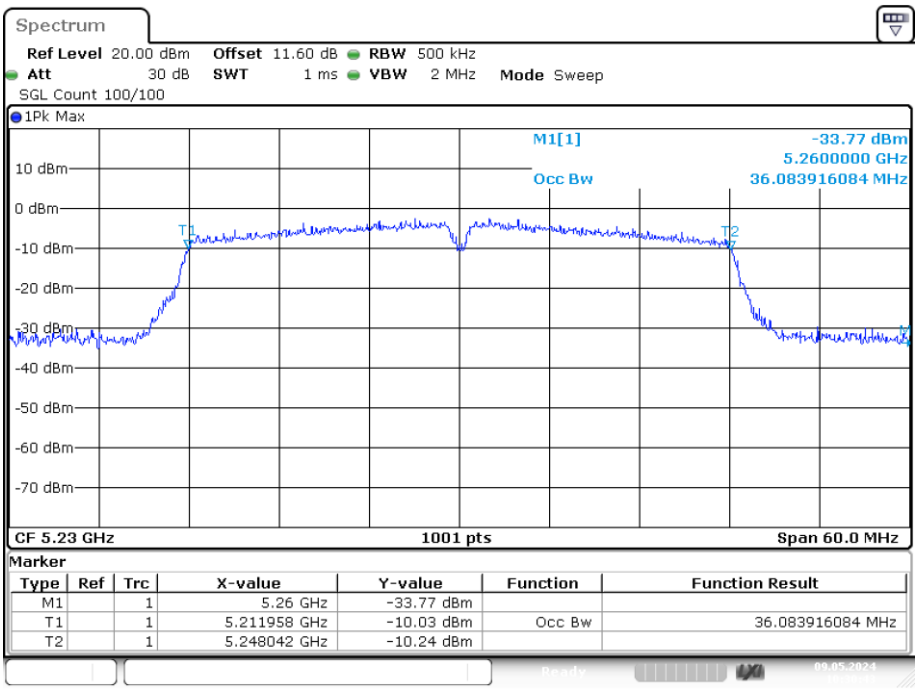

Date: 9.MAY.2024 10:14:58

OBW NVNT n40 5190MHz Ant1




Date: 9.MAY.2024 10:28:00

OBW NVNT n40 5230MHz Ant1

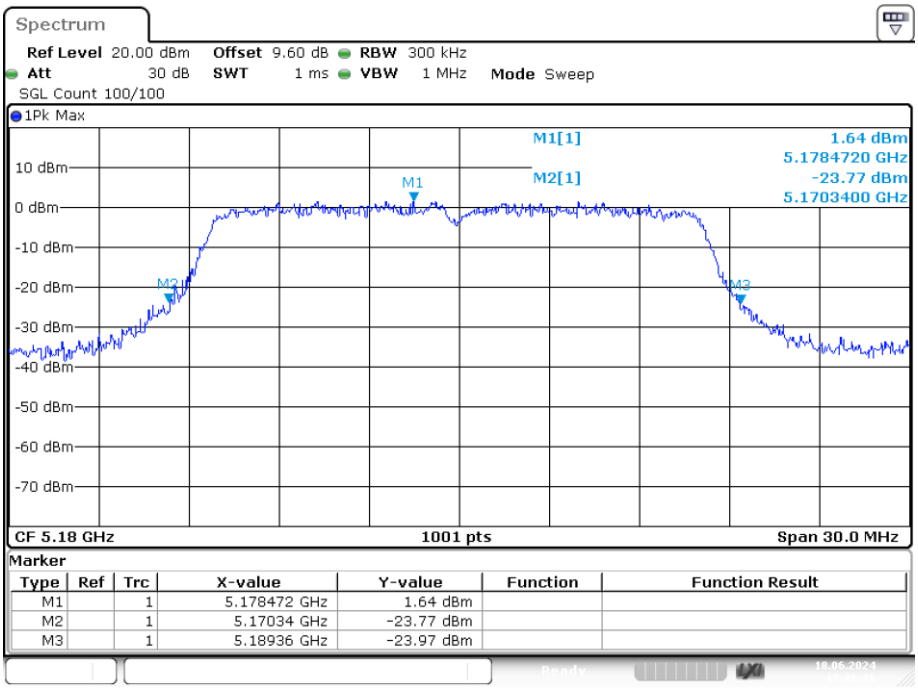



Date: 9.MAY.2024 10:30:43

**-26dB Bandwidth**

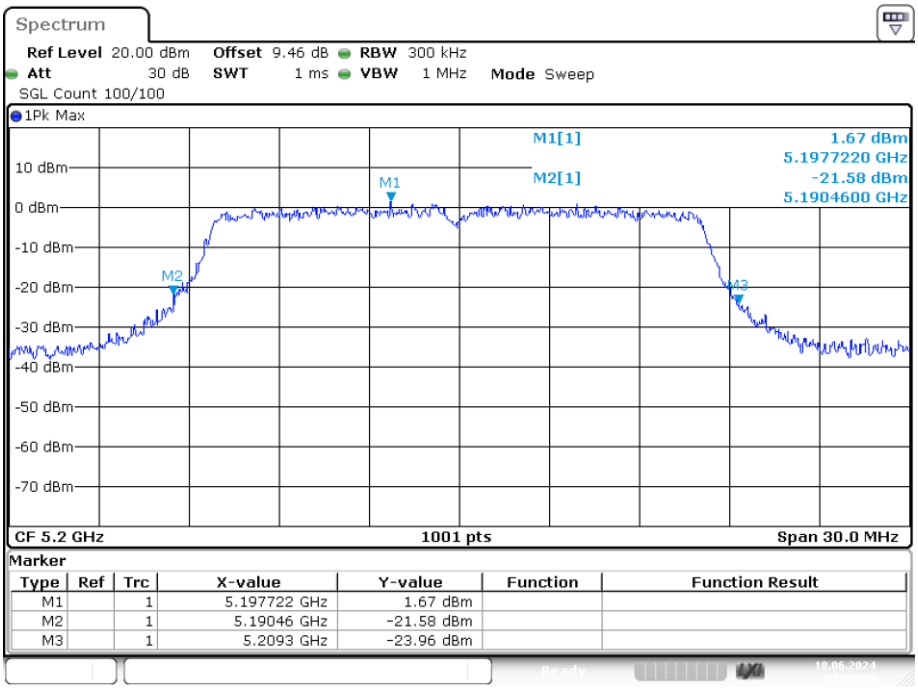
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant2 | 19.02 | 0.5 | Pass |
| NVNT | a | 5200 | Ant2 | 18.84 | 0.5 | Pass |
| NVNT | a | 5240 | Ant2 | 19.35 | 0.5 | Pass |
| NVNT | ac20 | 5180 | Ant2 | 20.97 | 0.5 | Pass |
| NVNT | ac20 | 5200 | Ant2 | 20.19 | 0.5 | Pass |
| NVNT | ac20 | 5240 | Ant2 | 19.95 | 0.5 | Pass |
| NVNT | ac40 | 5190 | Ant2 | 39.66 | 0.5 | Pass |
| NVNT | ac40 | 5230 | Ant2 | 39.18 | 0.5 | Pass |
| NVNT | ac80 | 5210 | Ant2 | 80.52 | 0.5 | Pass |
| NVNT | n20 | 5180 | Ant2 | 20.37 | 0.5 | Pass |
| NVNT | n20 | 5200 | Ant2 | 20.34 | 0.5 | Pass |
| NVNT | n20 | 5240 | Ant2 | 20.55 | 0.5 | Pass |
| NVNT | n40 | 5190 | Ant2 | 39.24 | 0.5 | Pass |
| NVNT | n40 | 5230 | Ant2 | 39.96 | 0.5 | Pass |

-26dB Bandwidth NVNT a 5180MHz Ant2



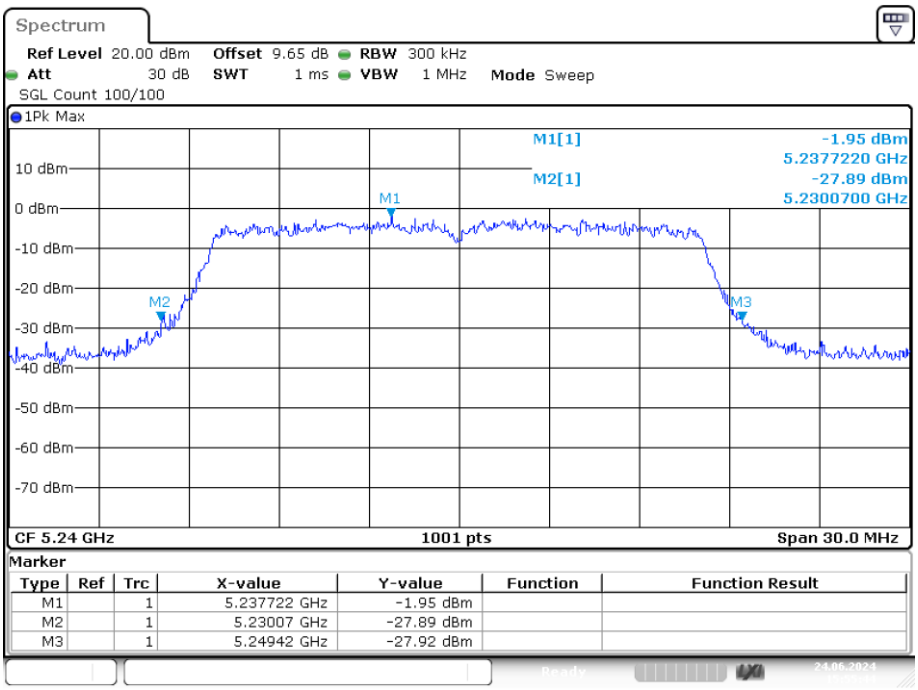

Date: 18.JUN.2024 17:36:38

-26dB Bandwidth NVNT a 5200MHz Ant2



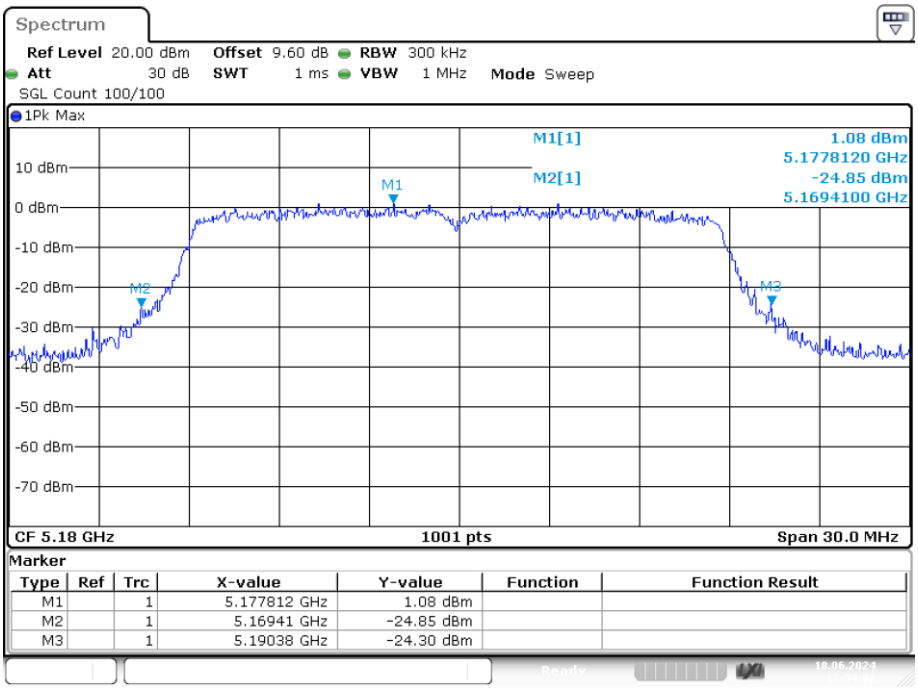

Date: 18.JUN.2024 17:37:36

-26dB Bandwidth NVNT a 5240MHz Ant2



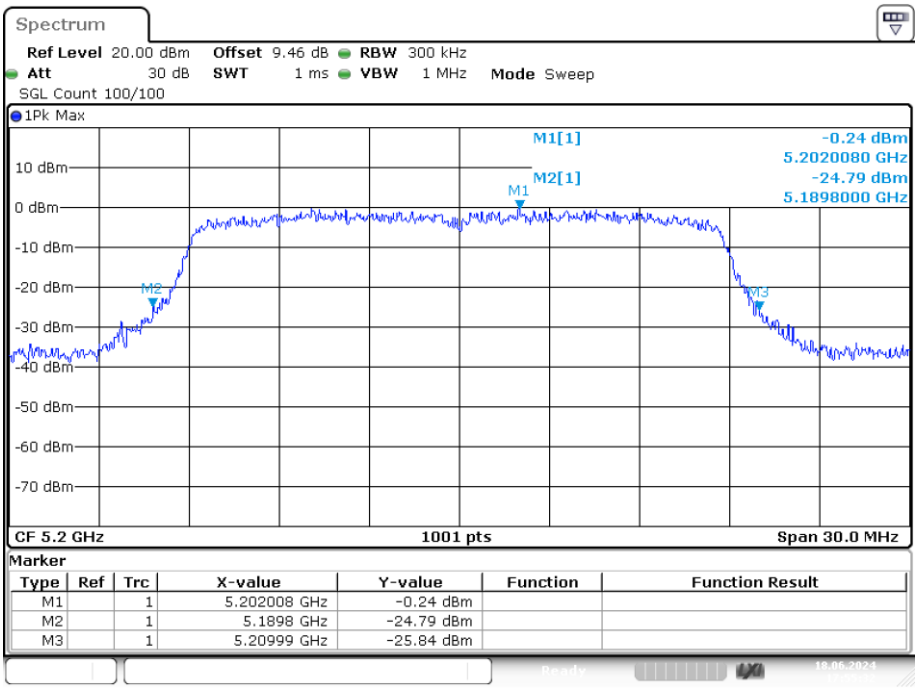

Date: 24.JUN.2024 15:55:44

-26dB Bandwidth NVNT ac20 5180MHz Ant2



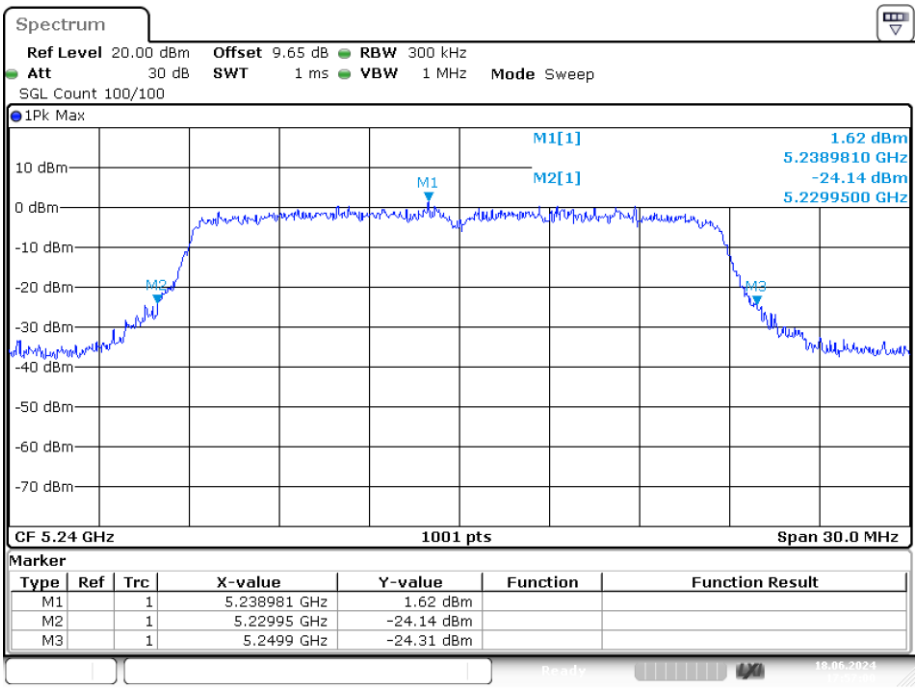

Date: 18.JUN.2024 17:54:02

-26dB Bandwidth NVNT ac20 5200MHz Ant2



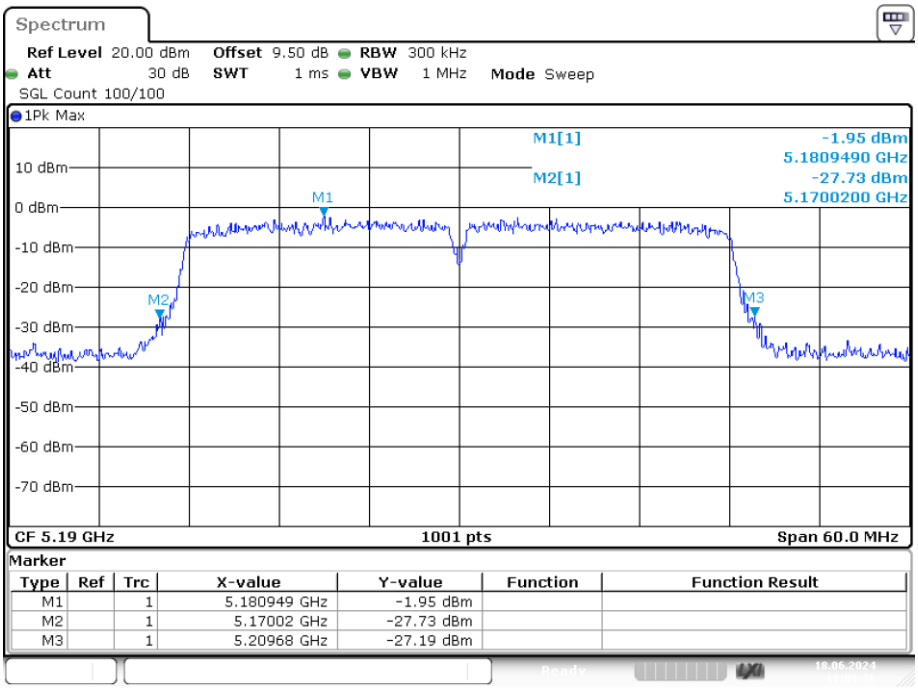

Date: 18.JUN.2024 17:55:32

-26dB Bandwidth NVNT ac20 5240MHz Ant2



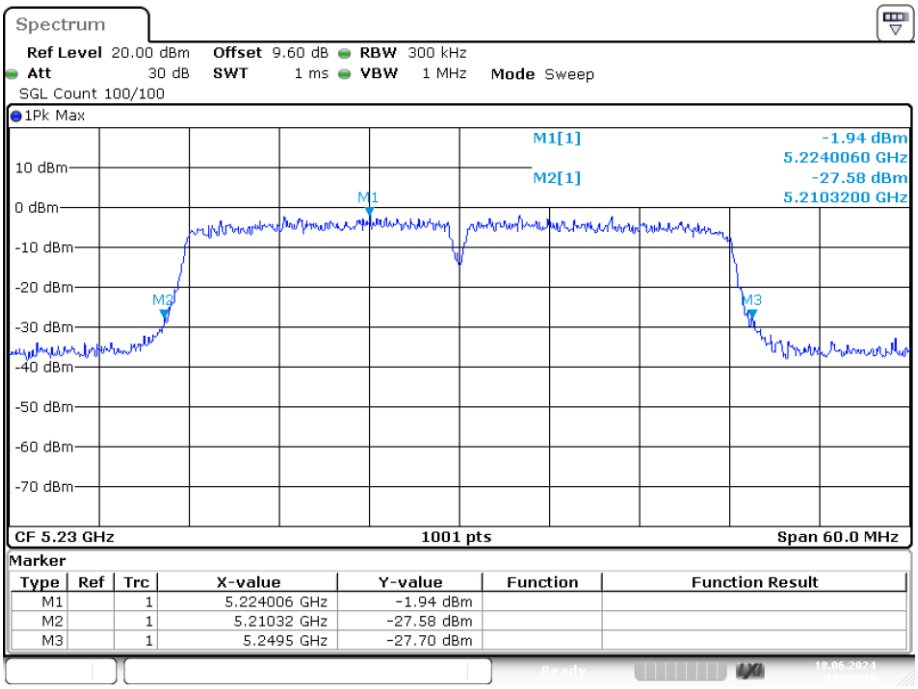

Date: 18.JUN.2024 17:57:00

-26dB Bandwidth NVNT ac40 5190MHz Ant2



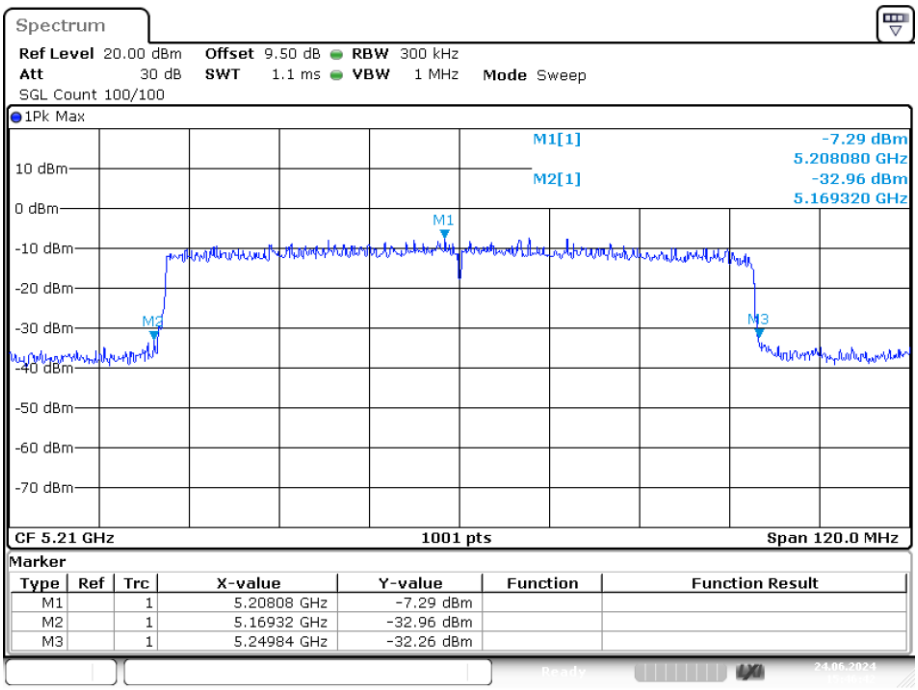

Date: 18.JUN.2024 18:09:37

-26dB Bandwidth NVNT ac40 5230MHz Ant2



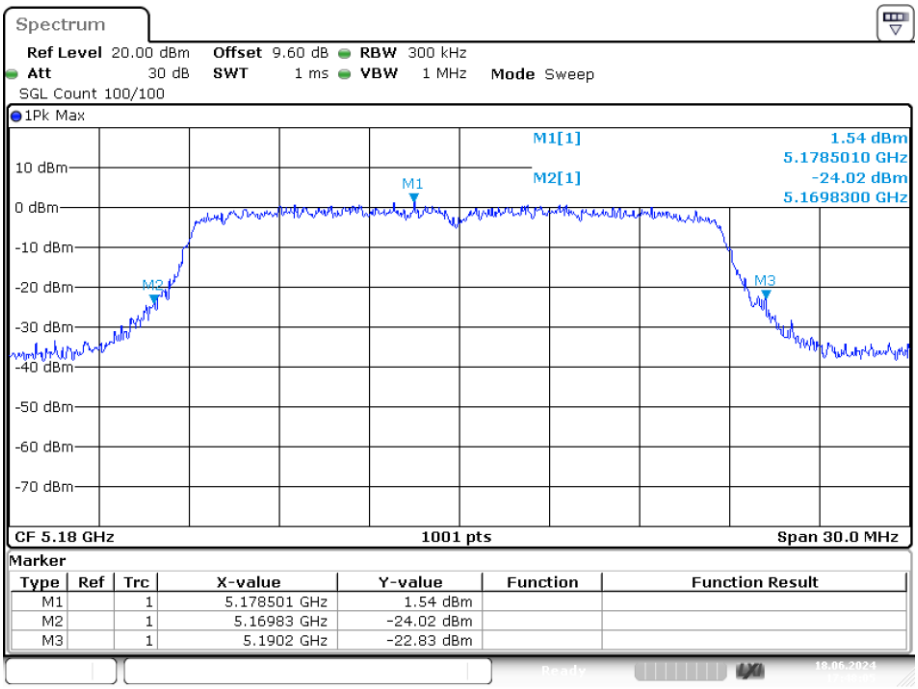

Date: 18.JUN.2024 18:08:41

-26dB Bandwidth NVNT ac80 5210MHz Ant2



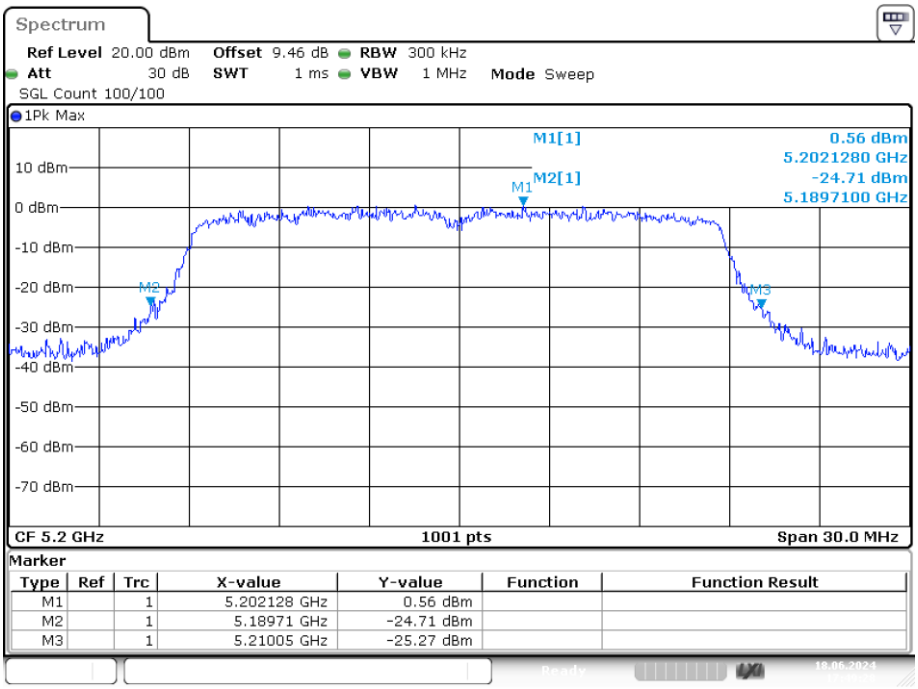

Date: 24.JUN.2024 15:46:42

-26dB Bandwidth NVNT n20 5180MHz Ant2



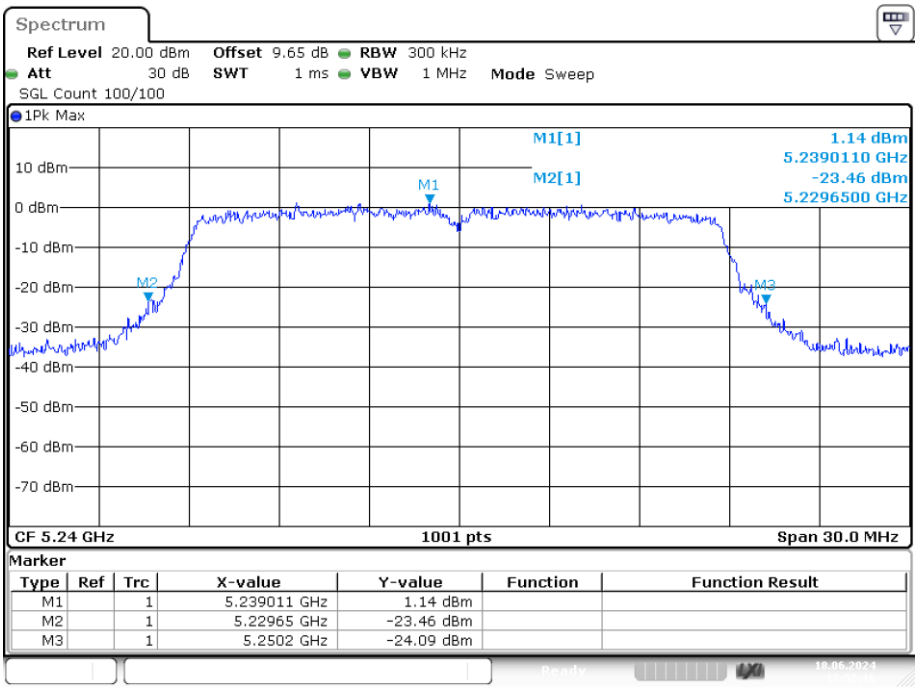

Date: 18.JUN.2024 17:48:05

-26dB Bandwidth NVNT n20 5200MHz Ant2



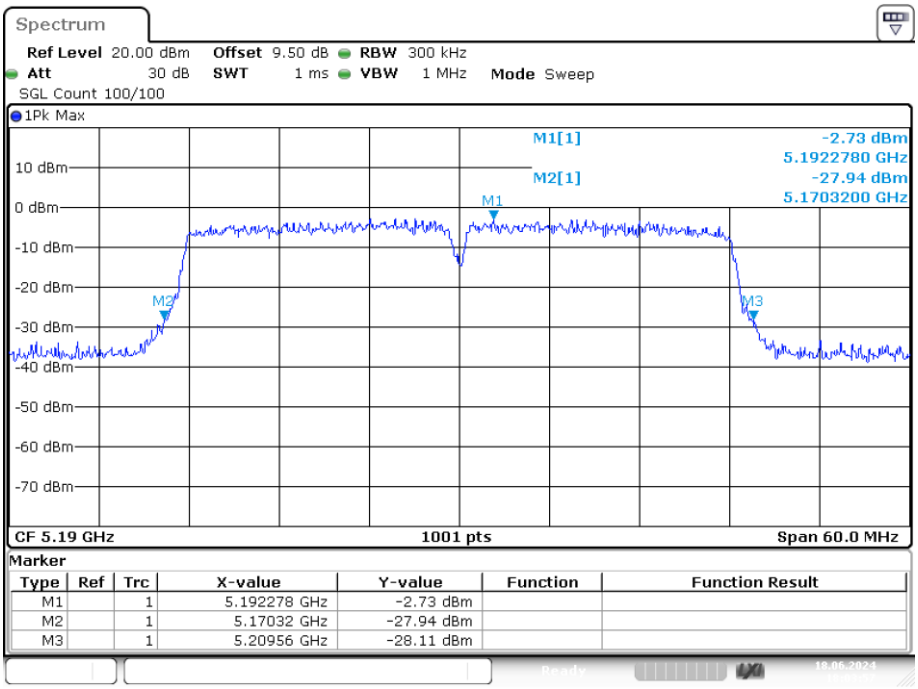

Date: 18.JUN.2024 17:49:27

-26dB Bandwidth NVNT n20 5240MHz Ant2



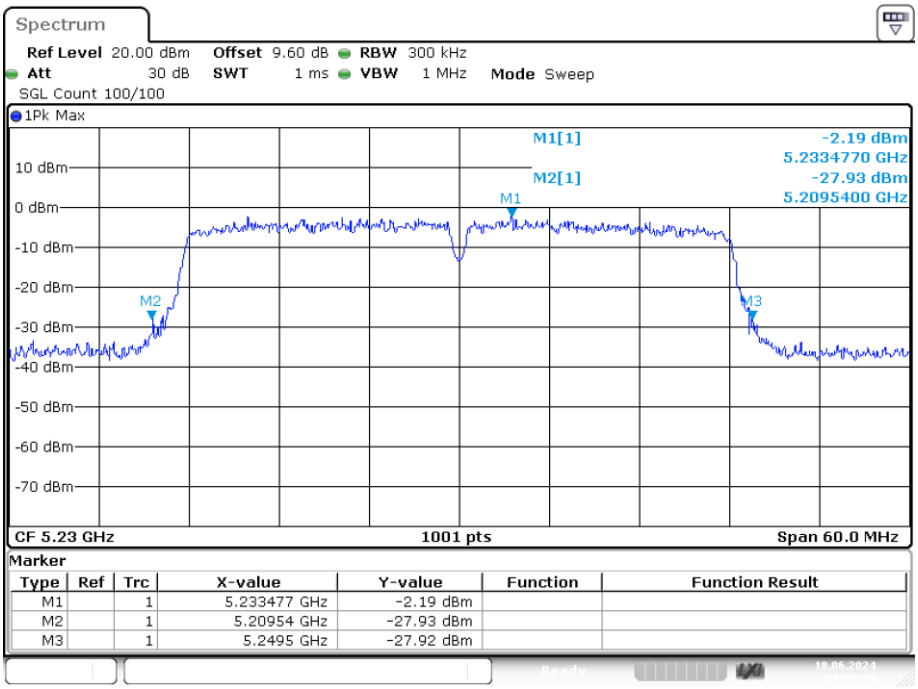

Date: 18.JUN.2024 17:52:15

-26dB Bandwidth NVNT n40 5190MHz Ant2




Date: 18.JUN.2024 18:03:57

-26dB Bandwidth NVNT n40 5230MHz Ant2

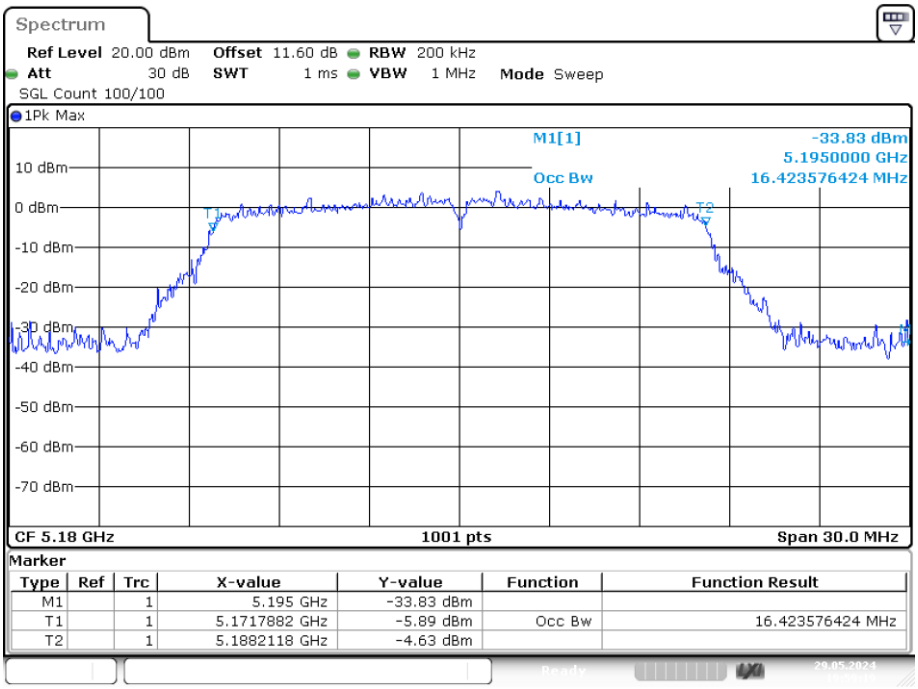



Date: 18.JUN.2024 18:07:40

**Occupied Channel Bandwidth**

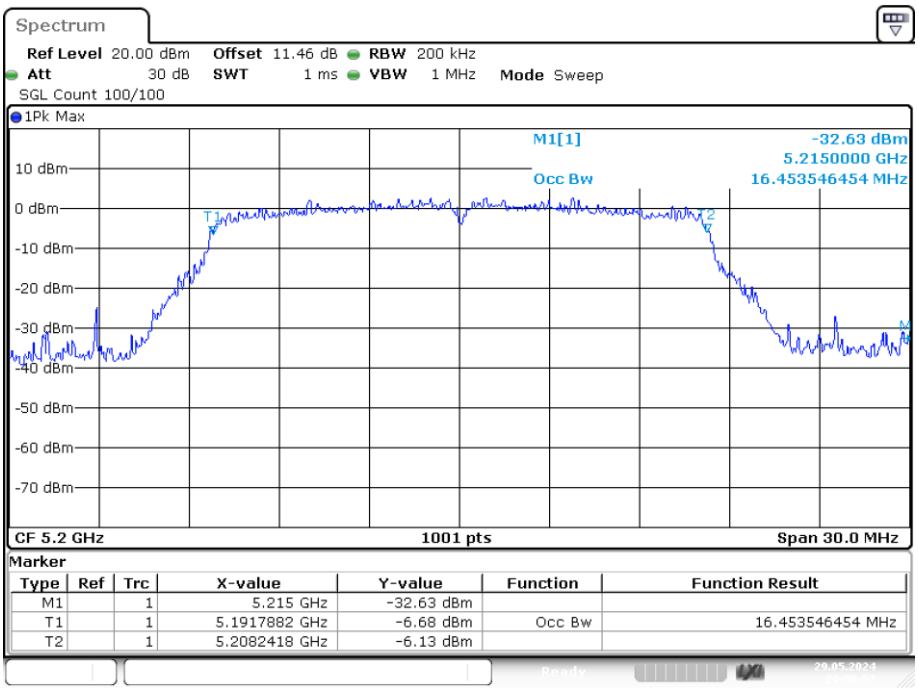
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | a | 5180 | Ant2 | 16.424 |
| NVNT | a | 5200 | Ant2 | 16.454 |
| NVNT | a | 5240 | Ant2 | 16.394 |
| NVNT | ac20 | 5180 | Ant2 | 17.562 |
| NVNT | ac20 | 5200 | Ant2 | 17.532 |
| NVNT | ac20 | 5240 | Ant2 | 17.532 |
| NVNT | ac40 | 5190 | Ant2 | 36.144 |
| NVNT | ac40 | 5230 | Ant2 | 36.024 |
| NVNT | ac80 | 5210 | Ant2 | 75.405 |
| NVNT | n20 | 5180 | Ant2 | 17.532 |
| NVNT | n20 | 5200 | Ant2 | 17.562 |
| NVNT | n20 | 5240 | Ant2 | 17.532 |
| NVNT | n40 | 5190 | Ant2 | 36.084 |
| NVNT | n40 | 5230 | Ant2 | 35.964 |

OBW NVNT a 5180MHz Ant2



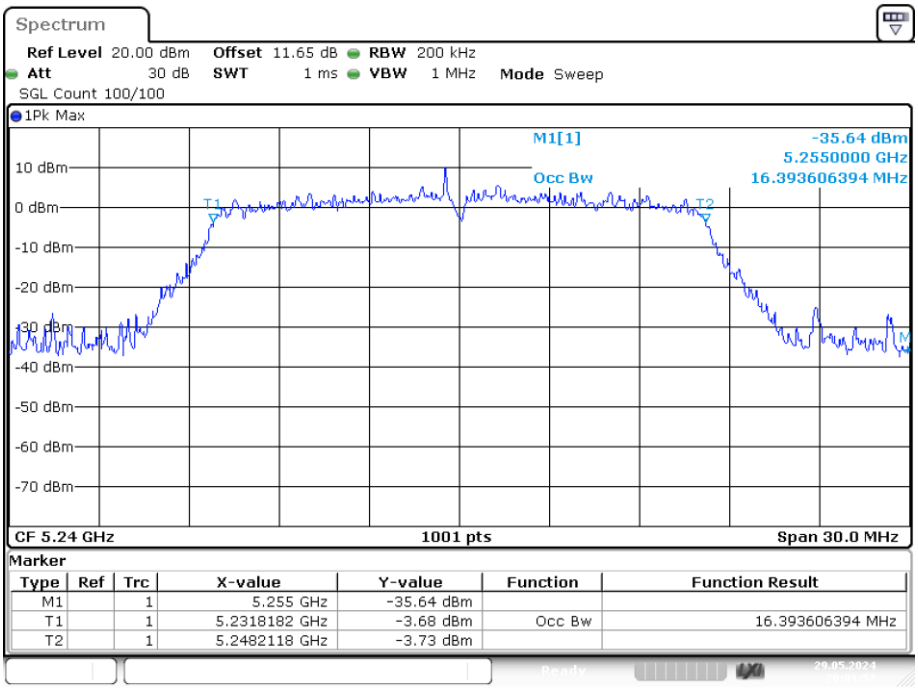

Date: 29.MAY.2024 19:59:18

OBW NVNT a 5200MHz Ant2



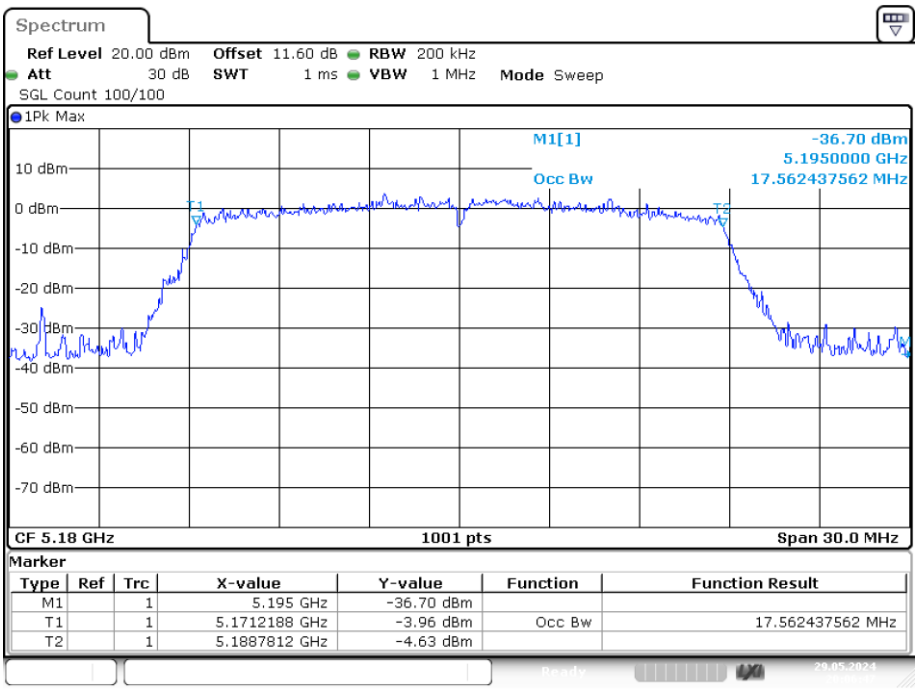

Date: 29.MAY.2024 20:00:57

OBW NVNT a 5240MHz Ant2



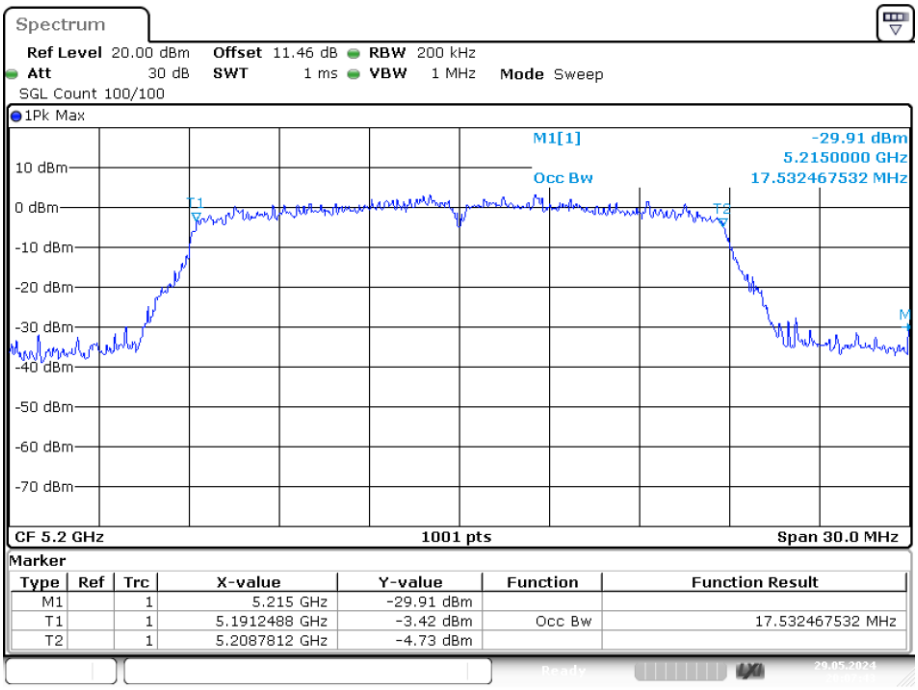

Date: 29.MAY.2024 20:01:57

OBW NVNT ac20 5180MHz Ant2



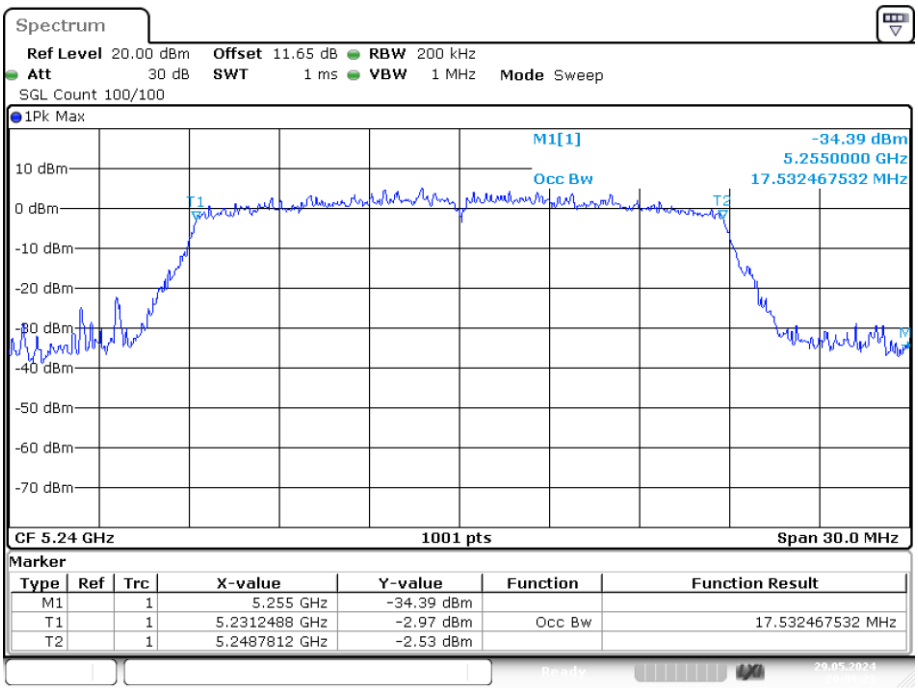

Date: 29.MAY.2024 20:06:47

OBW NVNT ac20 5200MHz Ant2



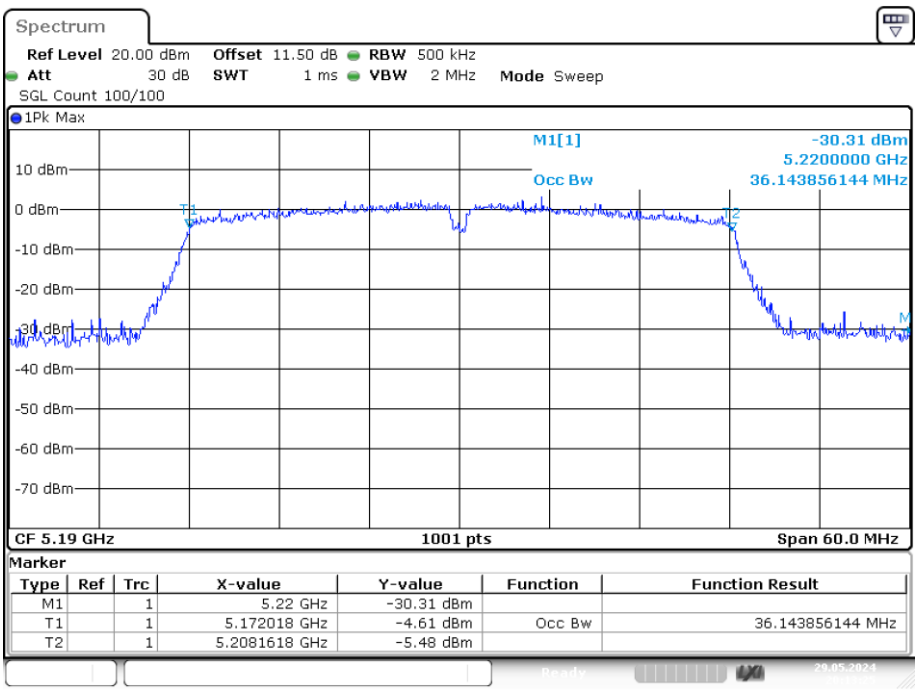

Date: 29.MAY.2024 20:07:43

OBW NVNT ac20 5240MHz Ant2



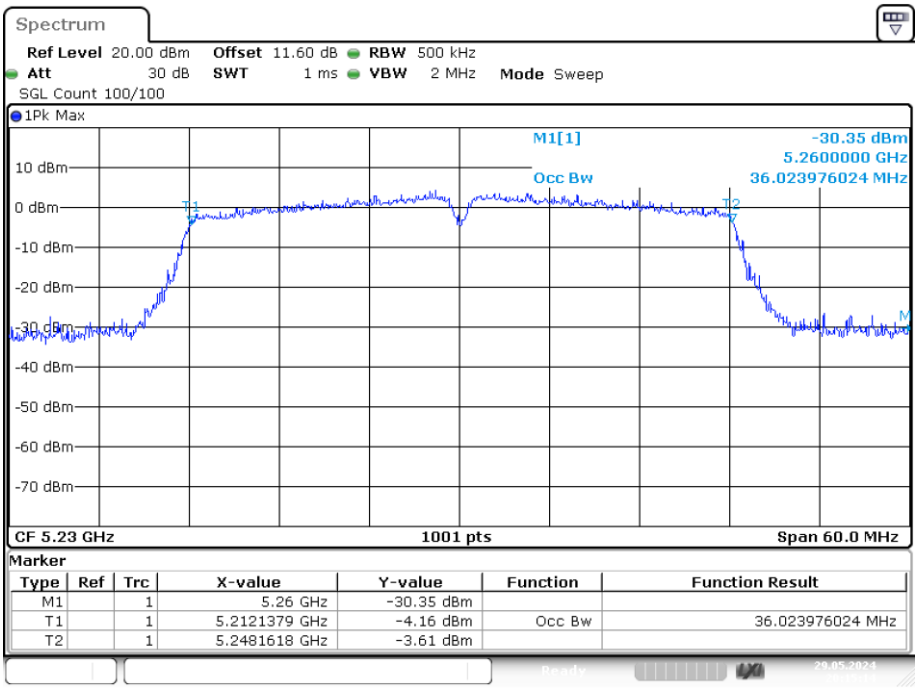

Date: 29.MAY.2024 20:09:24

OBW NVNT ac40 5190MHz Ant2



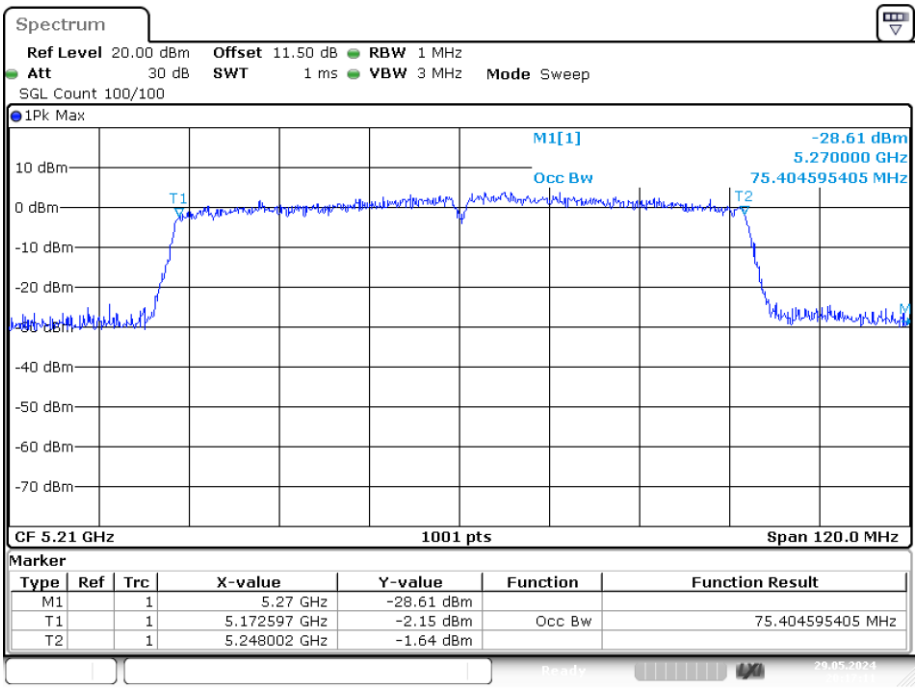

Date: 29.MAY.2024 20:13:24

OBW NVNT ac40 5230MHz Ant2



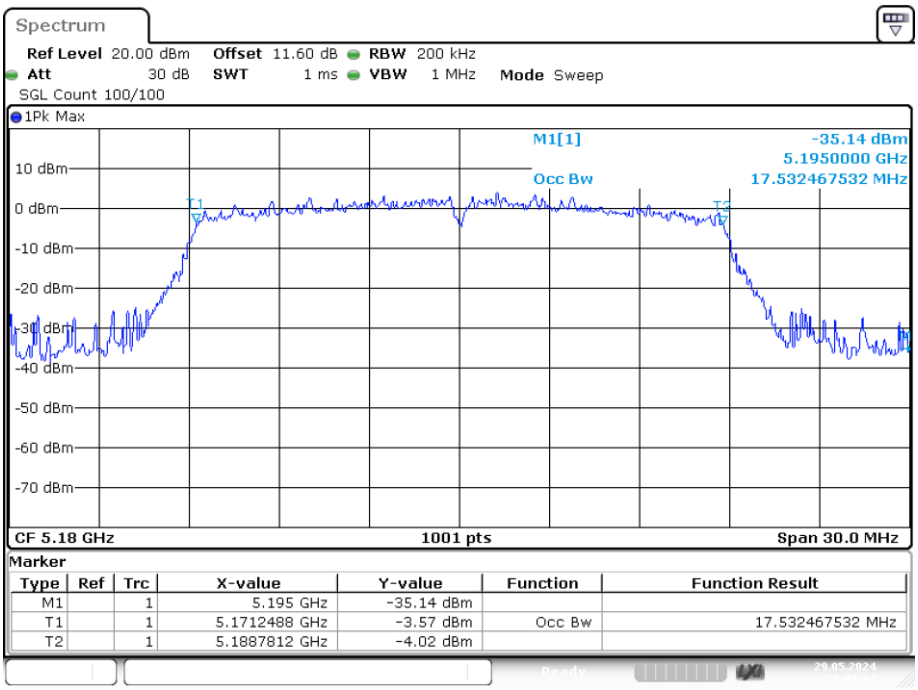

Date: 29.MAY.2024 20:15:13

OBW NVNT ac80 5210MHz Ant2



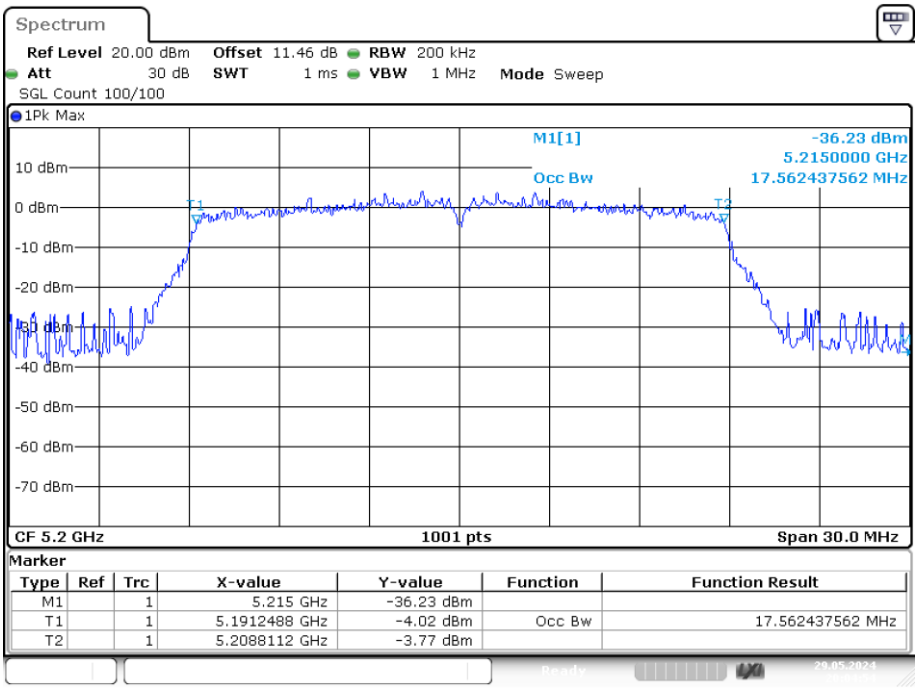

Date: 29.MAY.2024 20:17:11

OBW NVNT n20 5180MHz Ant2



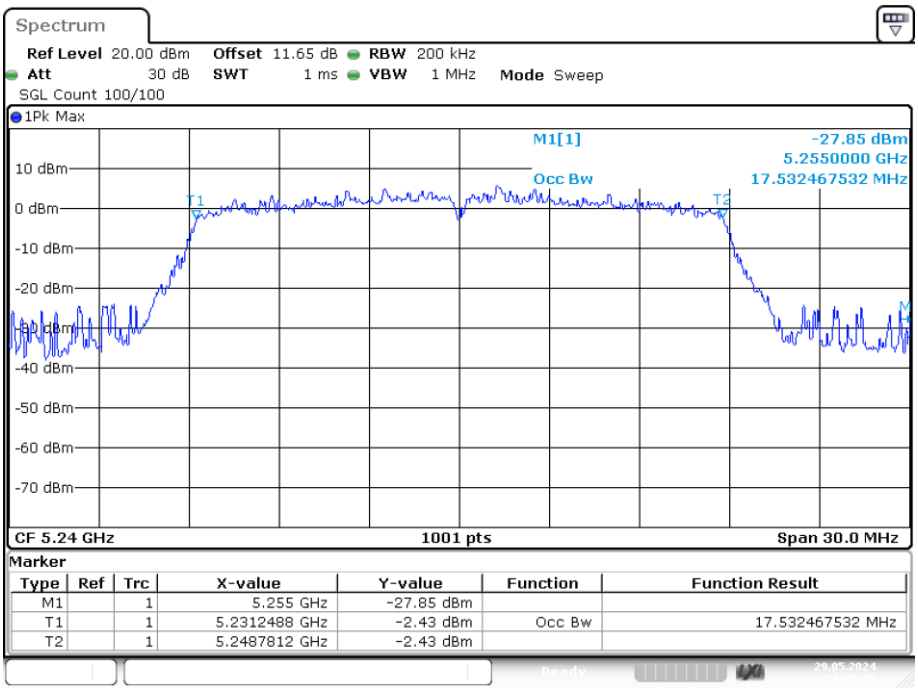

Date: 29.MAY.2024 20:03:14

OBW NVNT n20 5200MHz Ant2



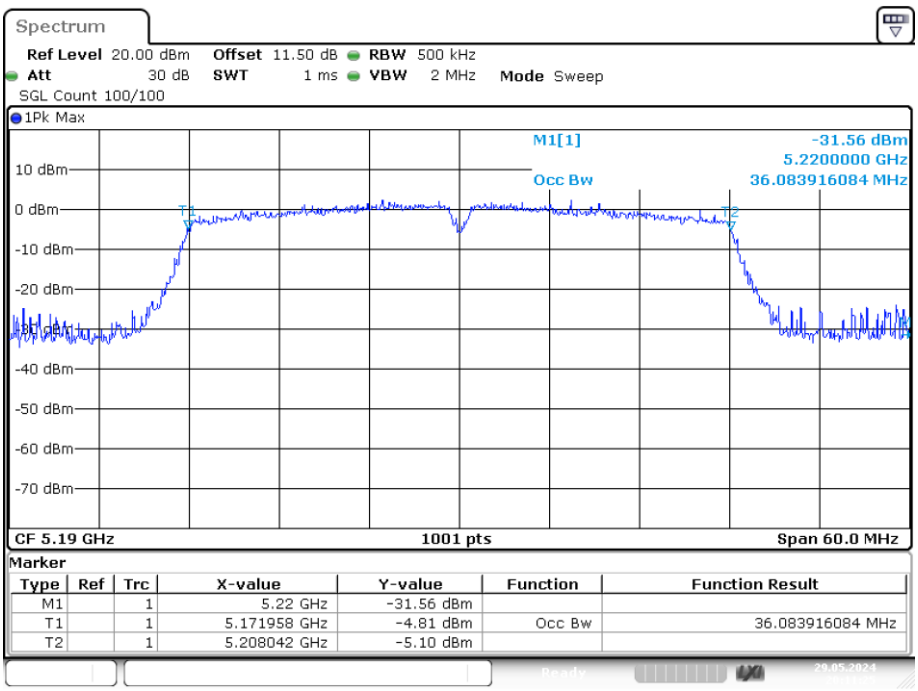

Date: 29.MAY.2024 20:04:53

OBW NVNT n20 5240MHz Ant2



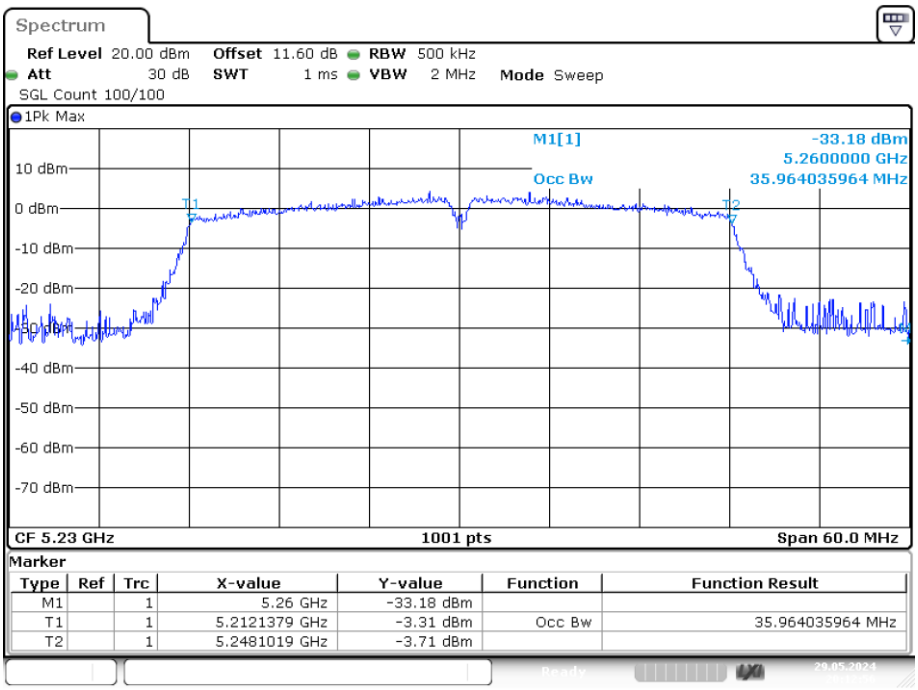

Date: 29.MAY.2024 20:05:54

OBW NVNT n40 5190MHz Ant2




Date: 29.MAY.2024 20:11:26

OBW NVNT n40 5230MHz Ant2



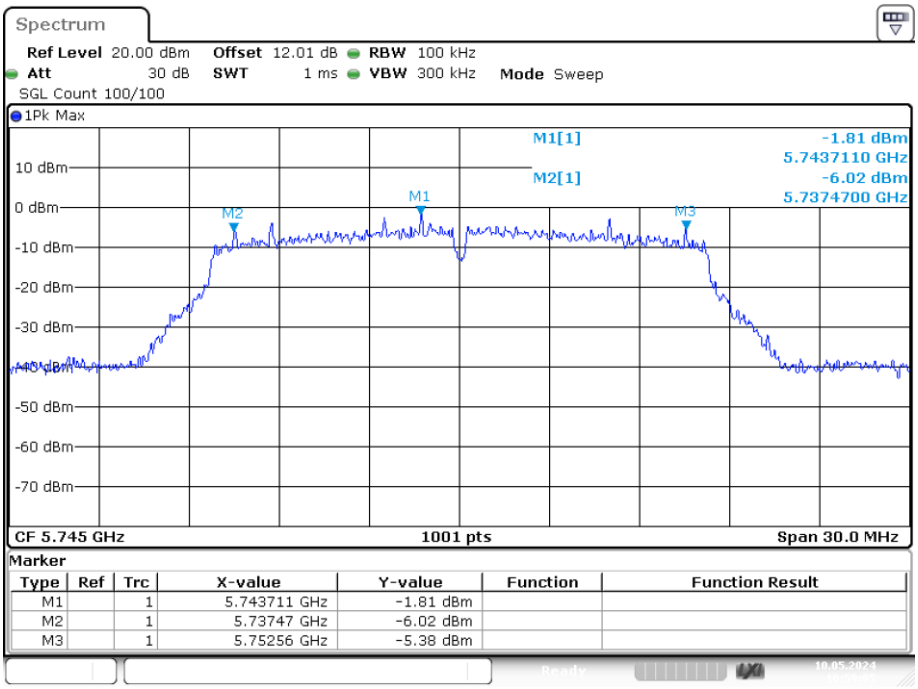

Date: 29.MAY.2024 20:12:56

**Band 4 (5725-5850 MHz):**

**-6dB Bandwidth**

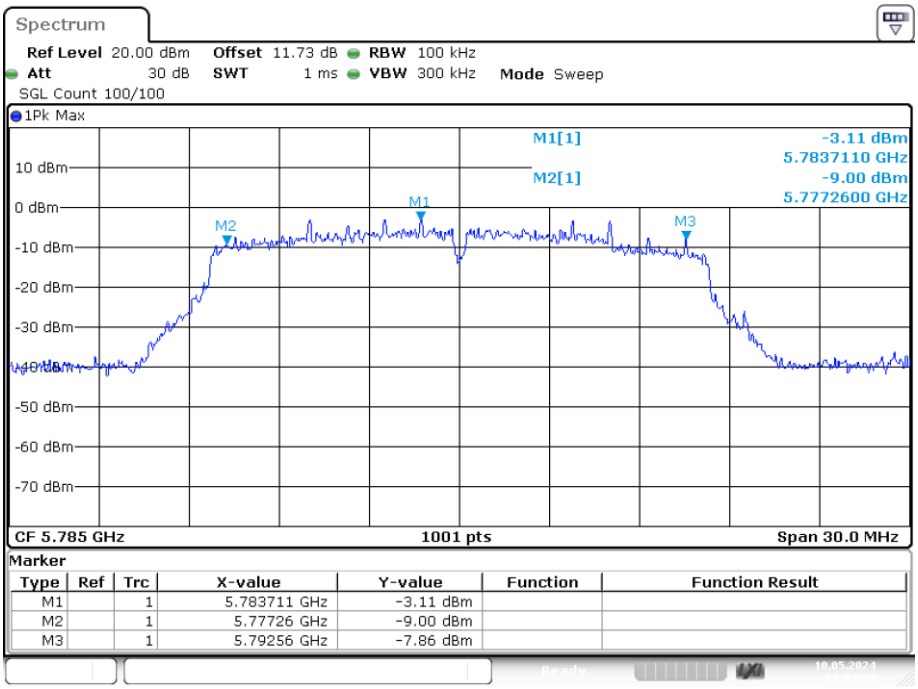
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 15.09 | 0.5 | Pass |
| NVNT | a | 5785 | Ant1 | 15.3 | 0.5 | Pass |
| NVNT | a | 5825 | Ant1 | 13.17 | 0.5 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 15.03 | 0.5 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 13.83 | 0.5 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 17.28 | 0.5 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 35.1 | 0.5 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 31.32 | 0.5 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 75.12 | 0.5 | Pass |
| NVNT | n20 | 5745 | Ant1 | 15.06 | 0.5 | Pass |
| NVNT | n20 | 5785 | Ant1 | 15.45 | 0.5 | Pass |
| NVNT | n20 | 5825 | Ant1 | 13.83 | 0.5 | Pass |
| NVNT | n40 | 5755 | Ant1 | 35.1 | 0.5 | Pass |
| NVNT | n40 | 5795 | Ant1 | 35.04 | 0.5 | Pass |

-6dB Bandwidth NVNT a 5745MHz Ant1



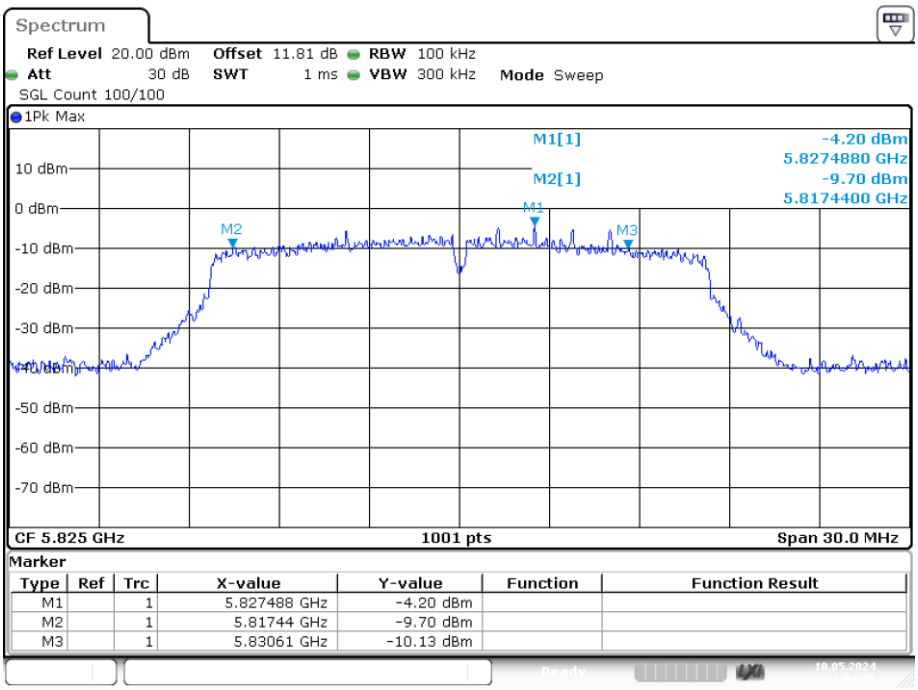

Date: 10.MAY.2024 10:59:05

-6dB Bandwidth NVNT a 5785MHz Ant1



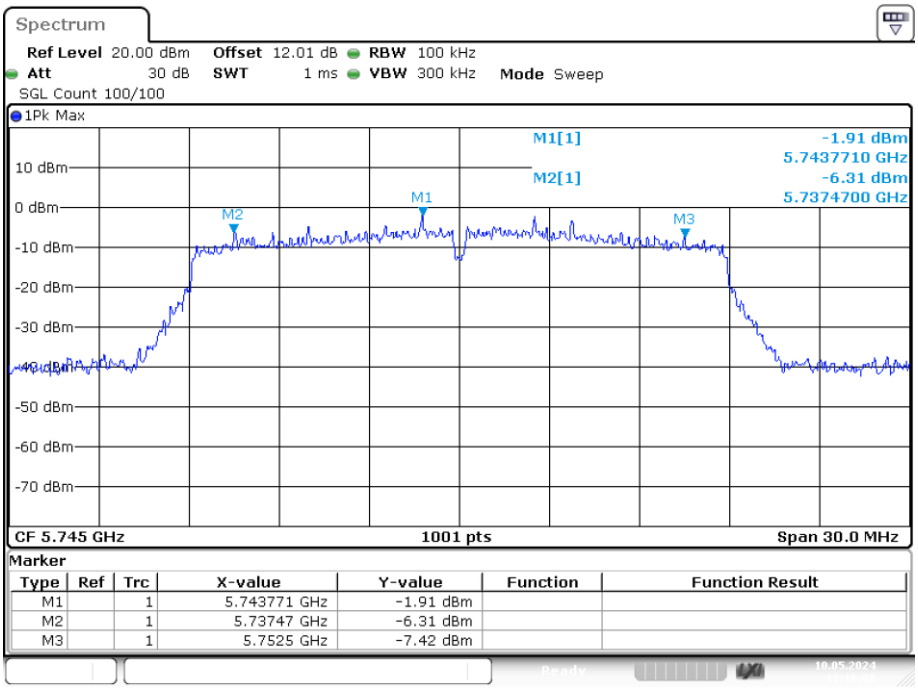

Date: 10.MAY.2024 11:01:50

-6dB Bandwidth NVNT a 5825MHz Ant1



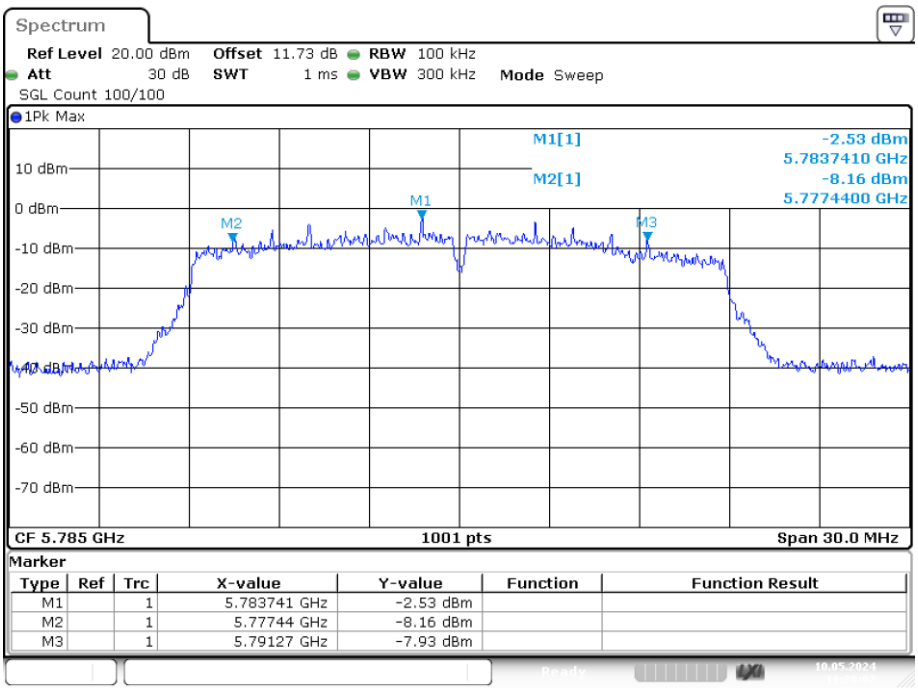

Date: 10.MAY.2024 11:04:22

-6dB Bandwidth NVNT ac20 5745MHz Ant1




Date: 10.MAY.2024 11:16:08

-6dB Bandwidth NVNT ac20 5785MHz Ant1




Date: 10.MAY.2024 11:20:07