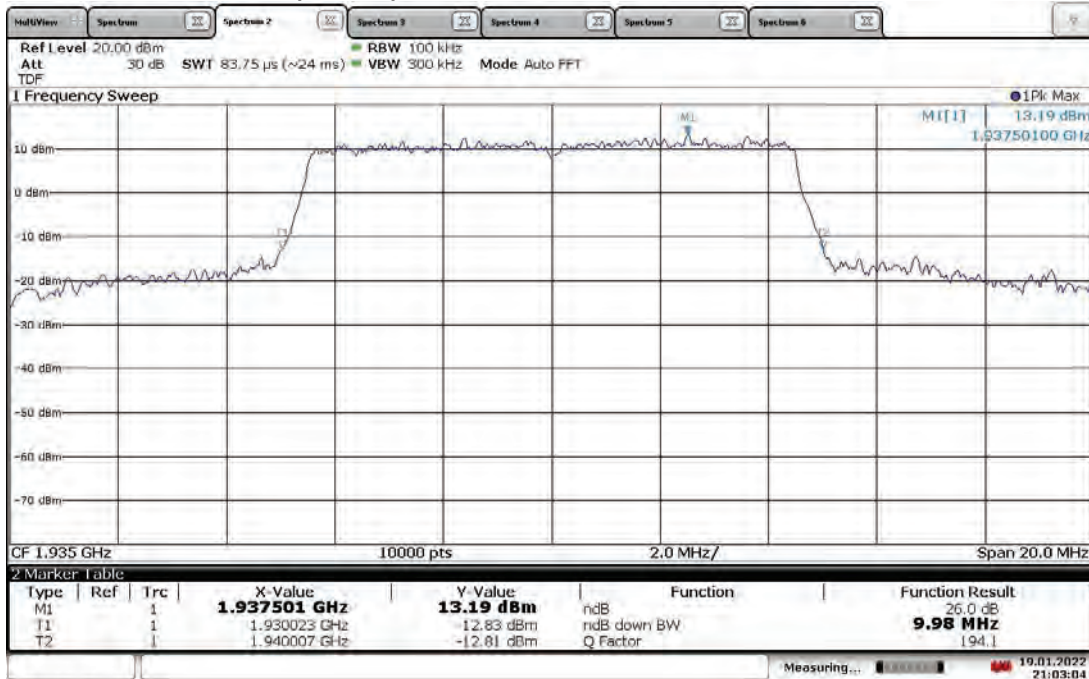
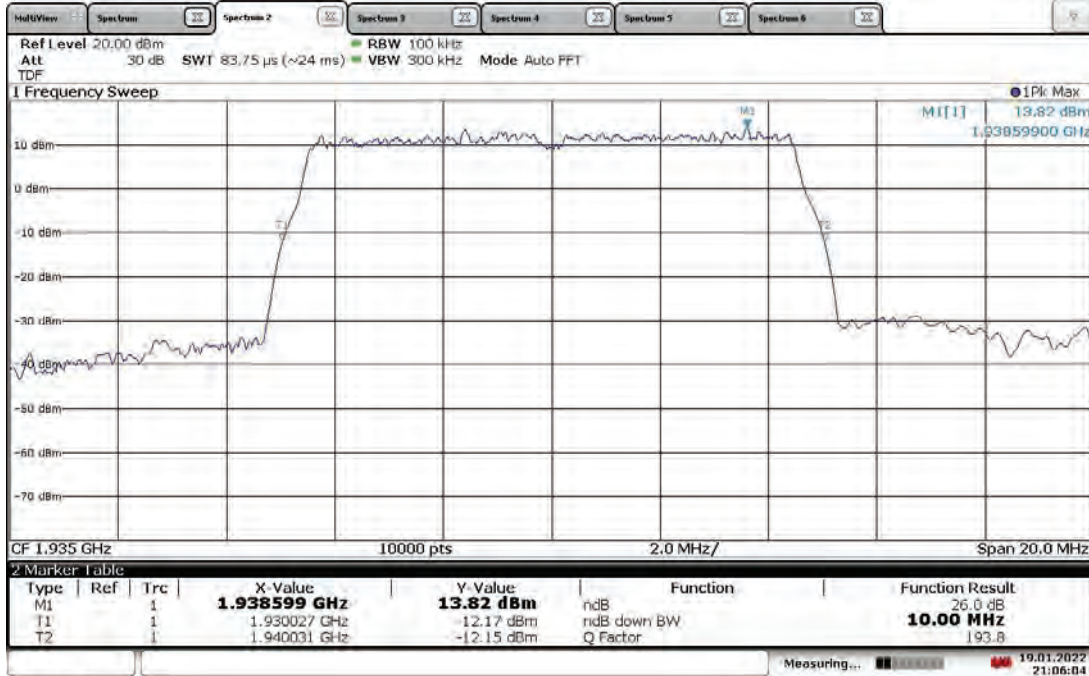


TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth



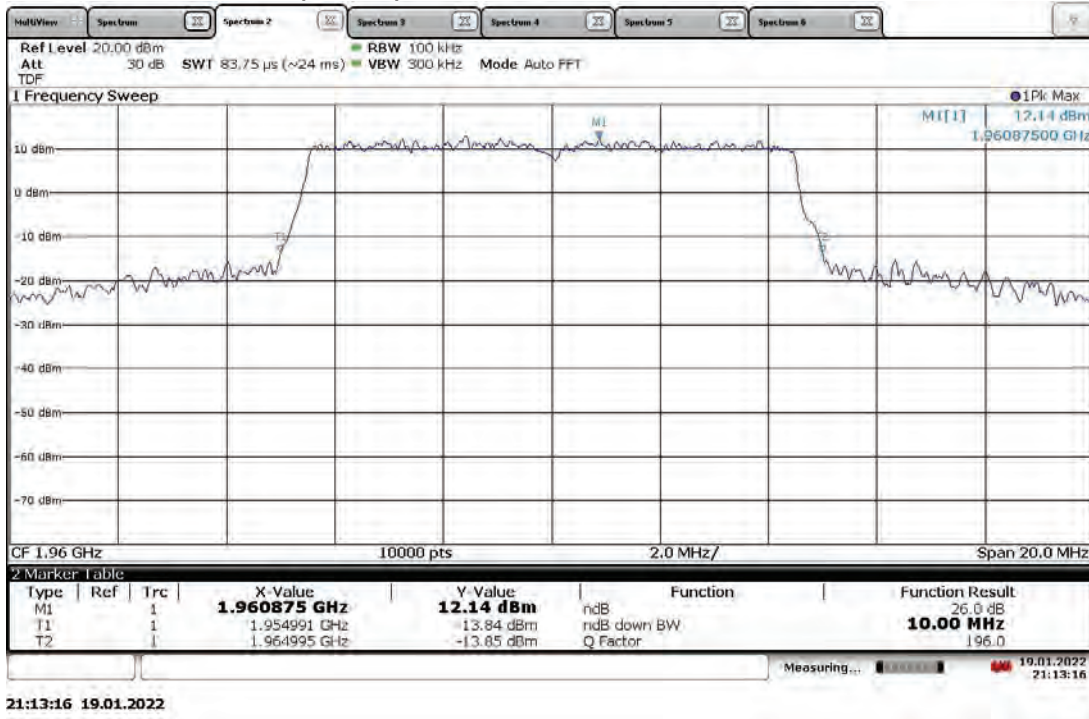
21:03:04 19.01.2022

TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth

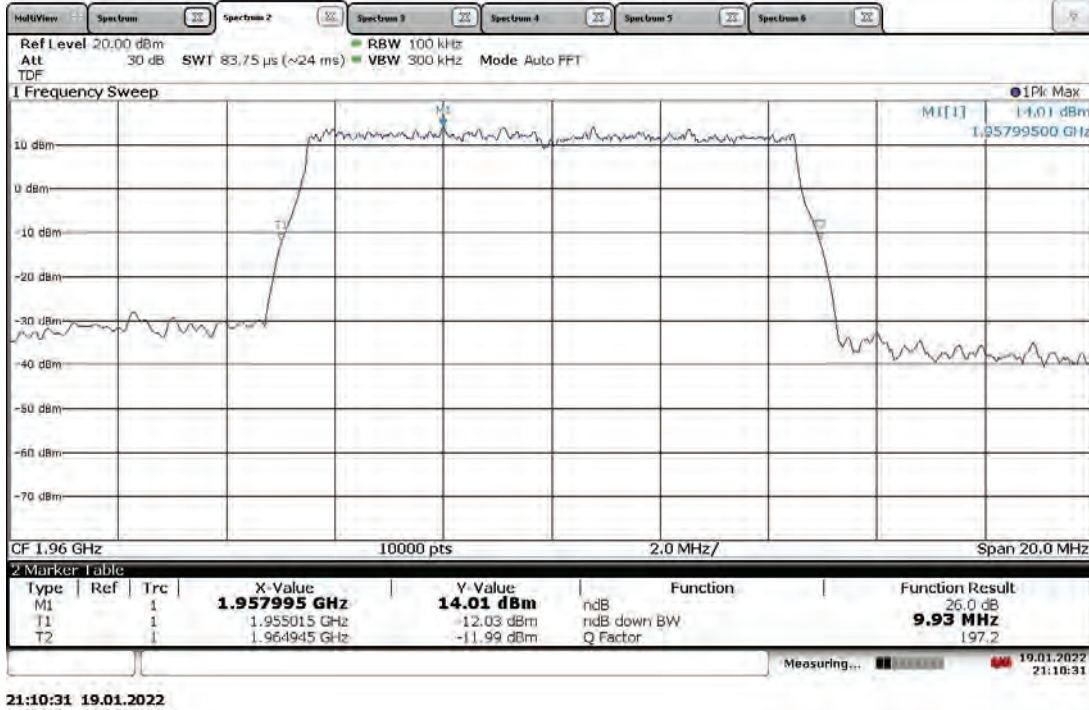


21:06:05 19.01.2022

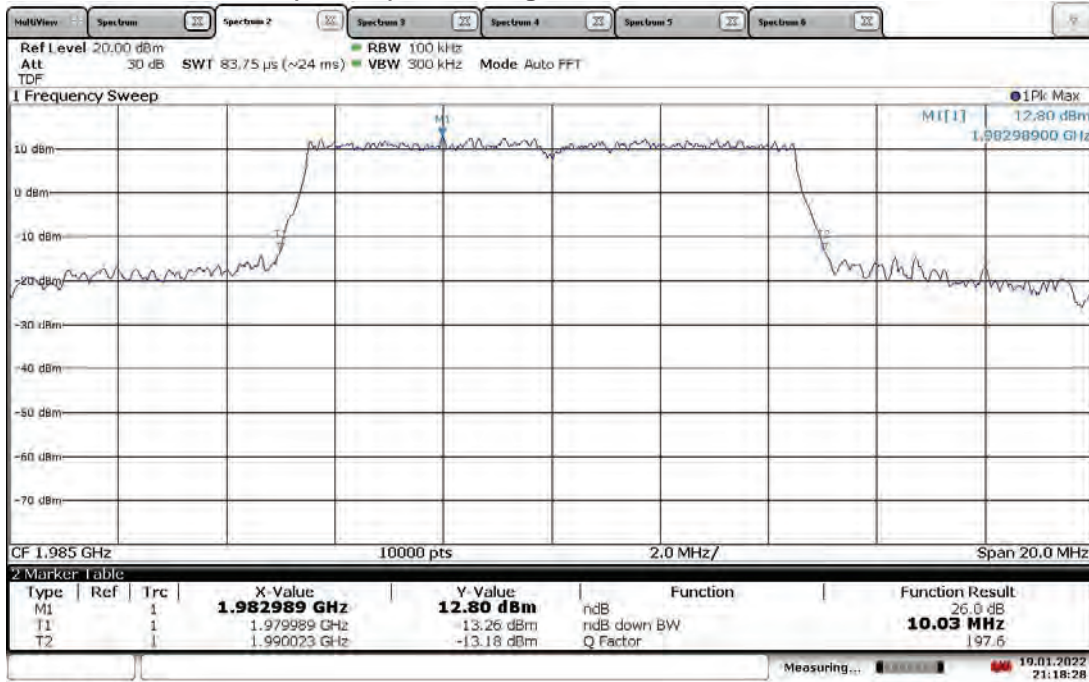
TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth



TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth

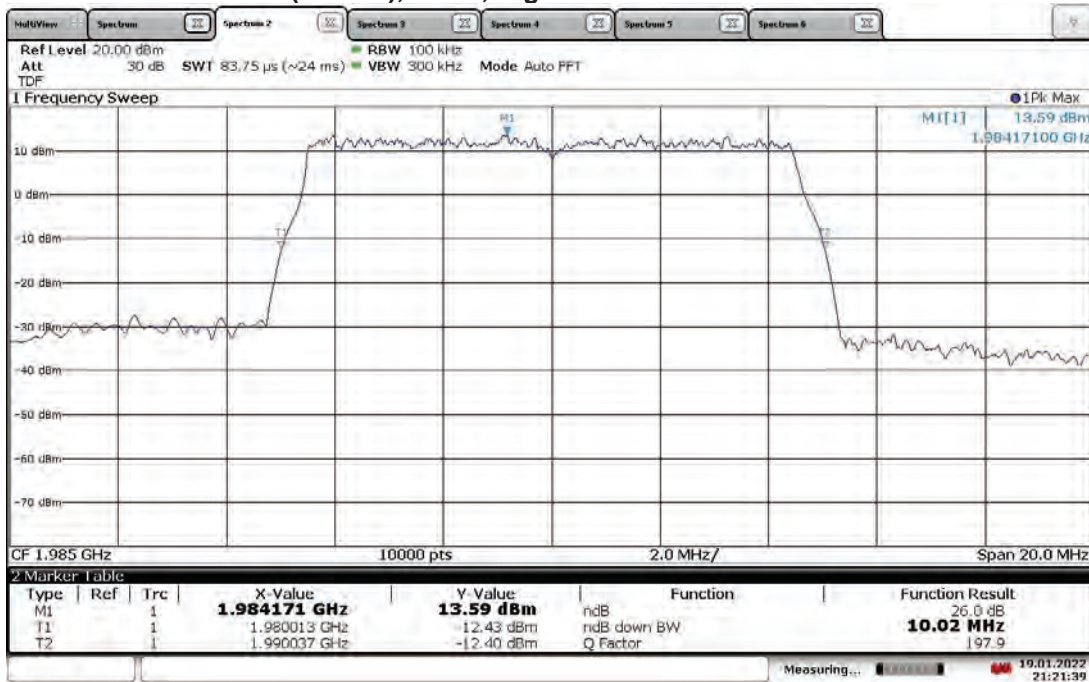


TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth



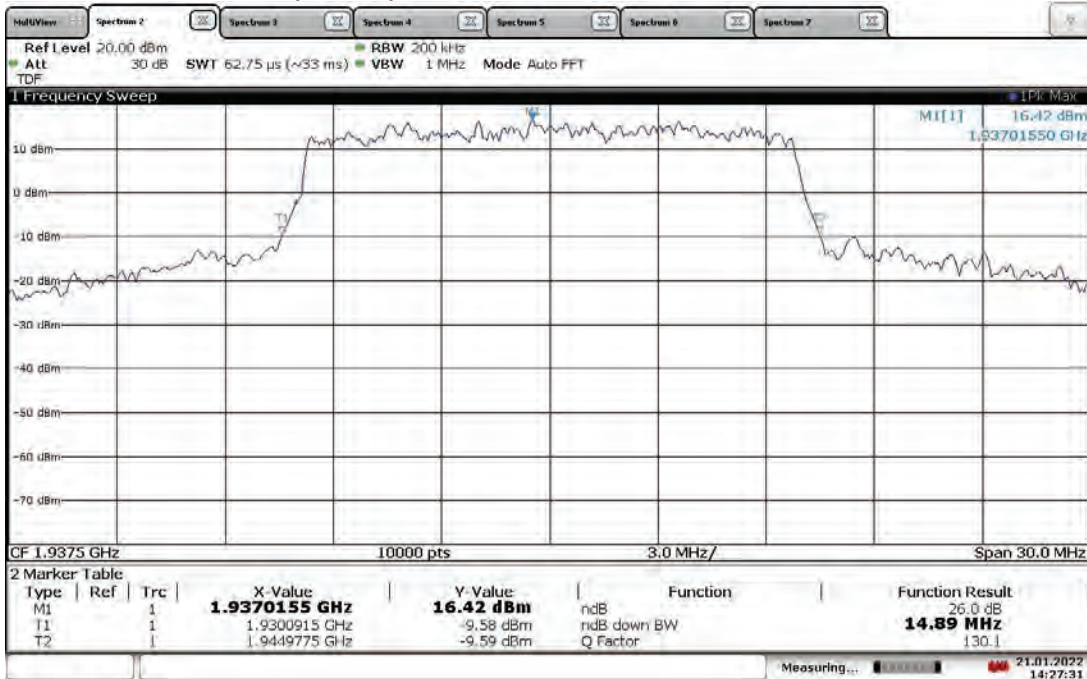
21:18:29 19.01.2022

TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth



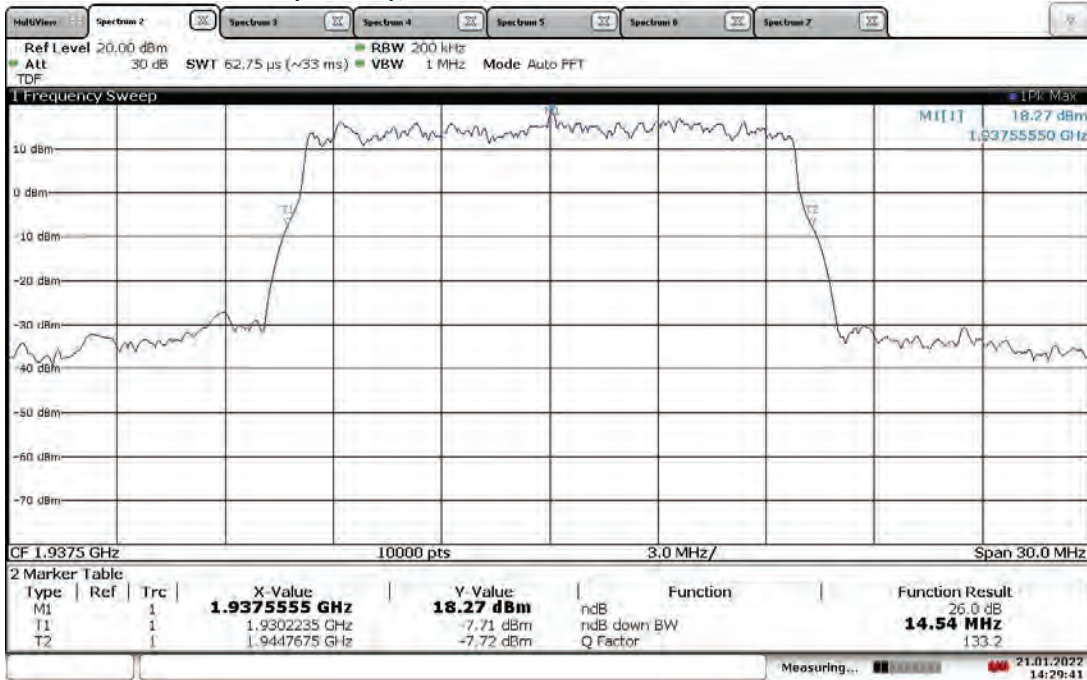
21:21:39 19.01.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth



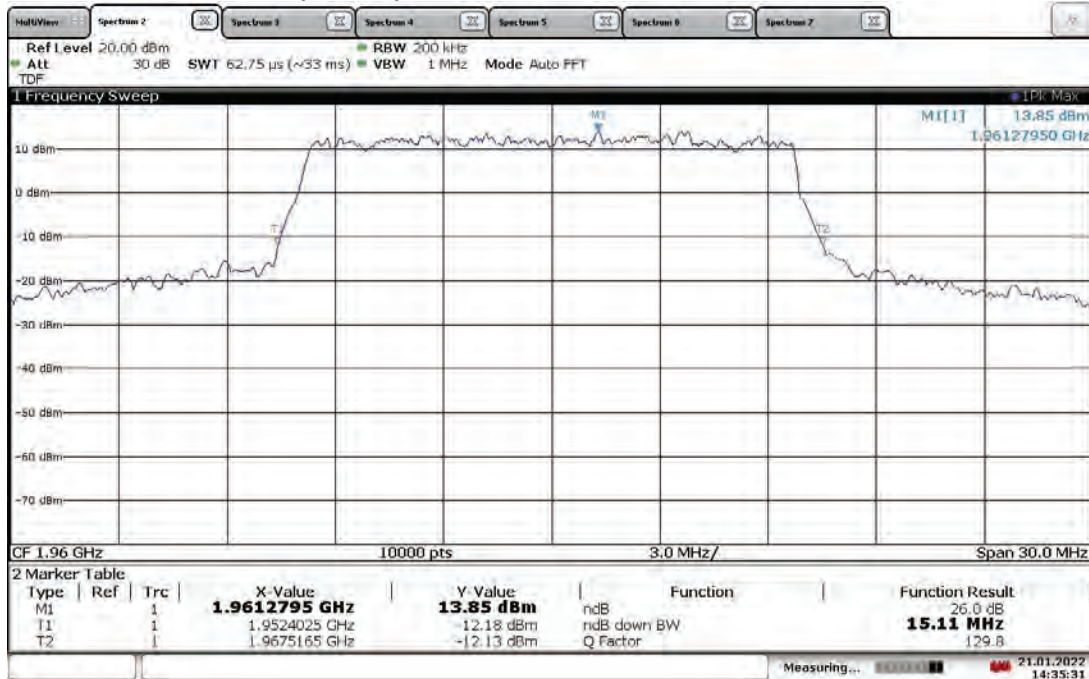
14:27:31 21.01.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth



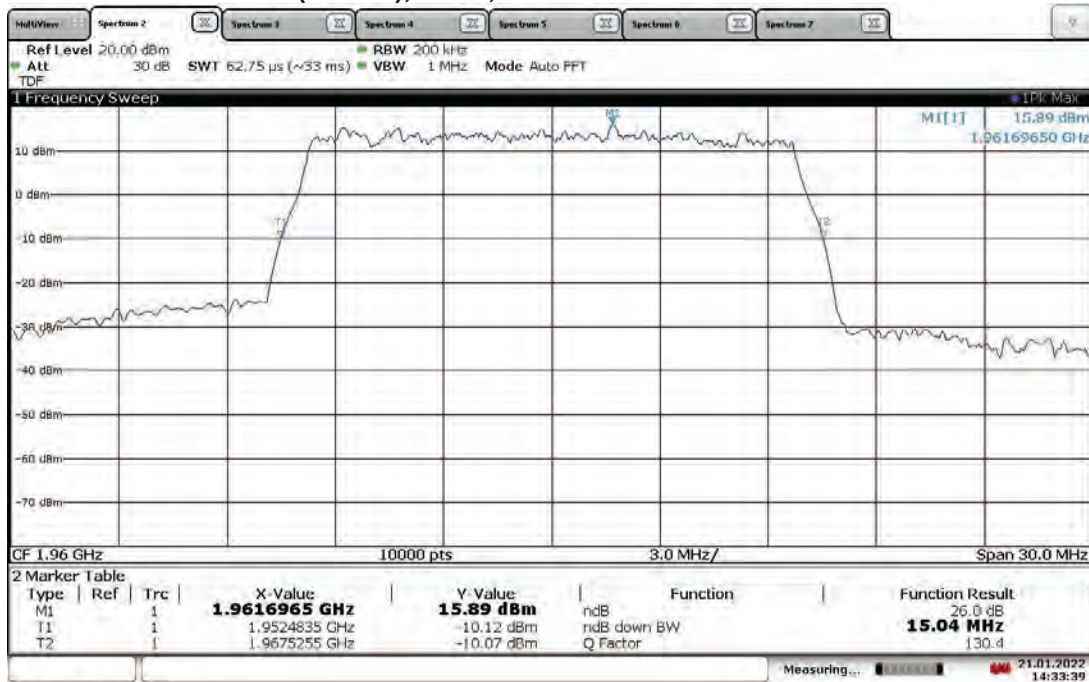
14:29:42 21.01.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth



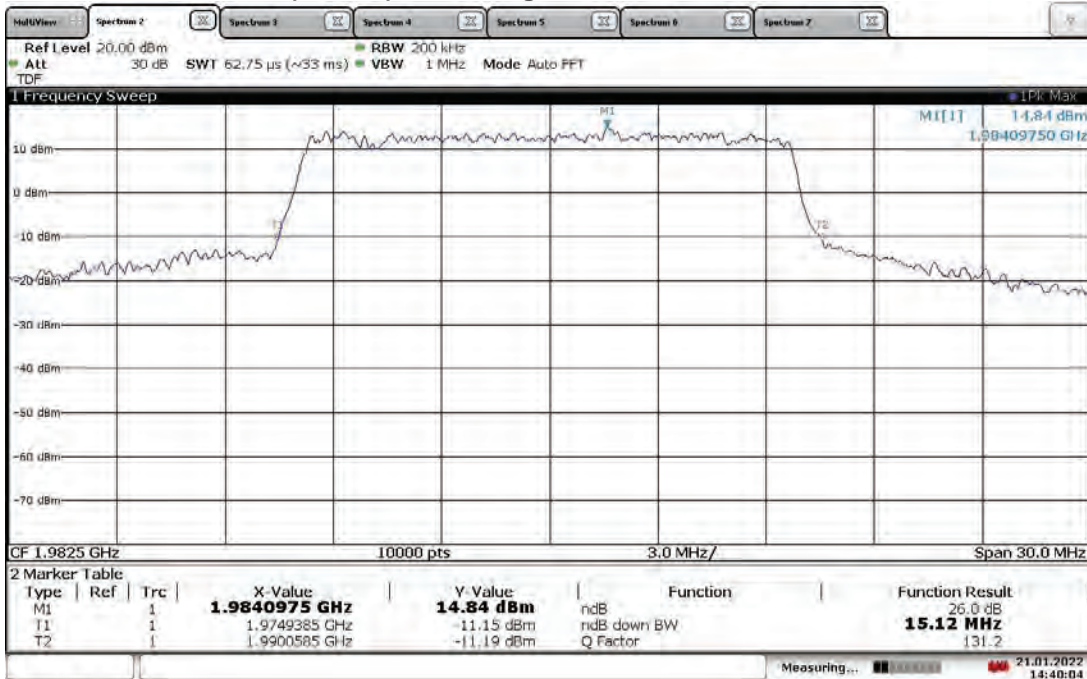
14:35:32 21.01.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth



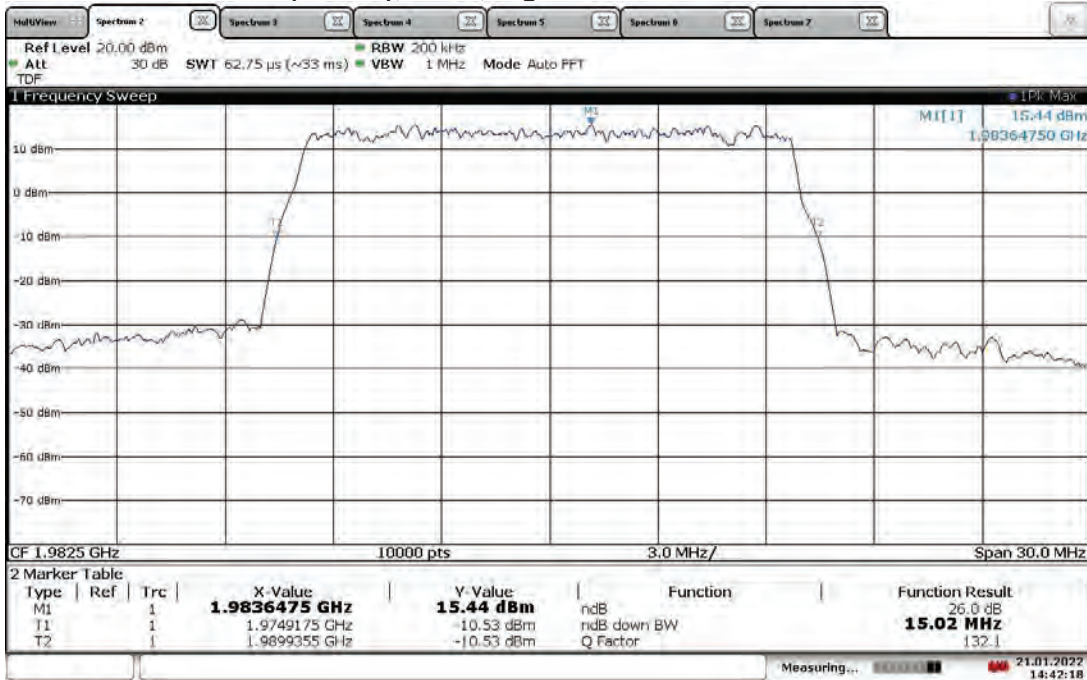
14:33:40 21.01.2022

**TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth**



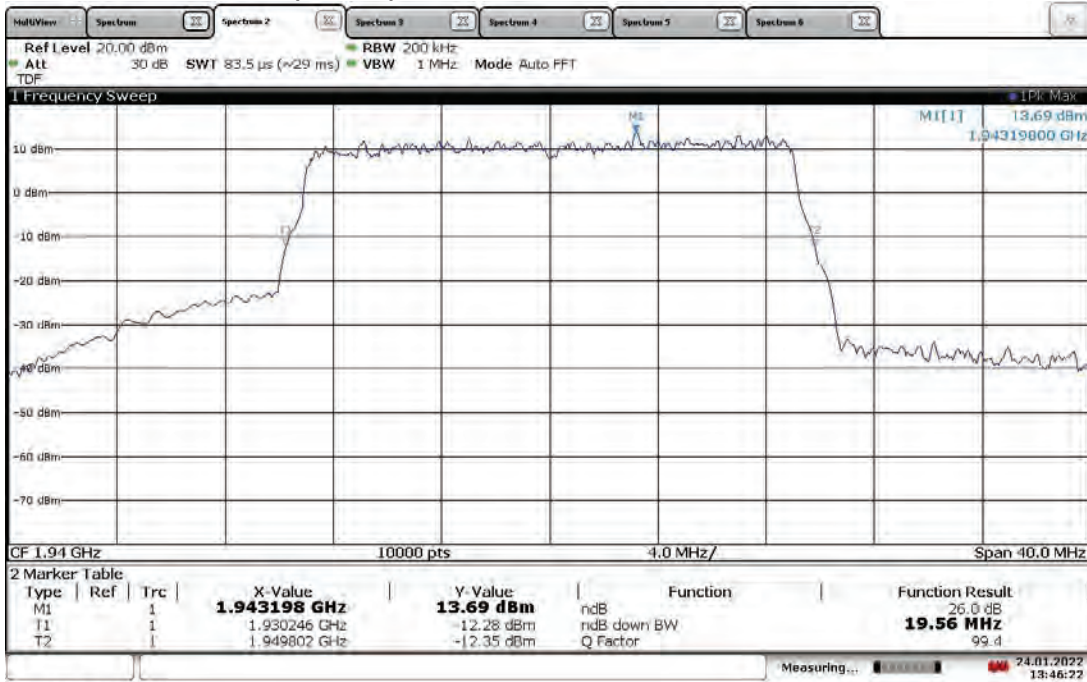
14:40:04 21.01.2022

**TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth**



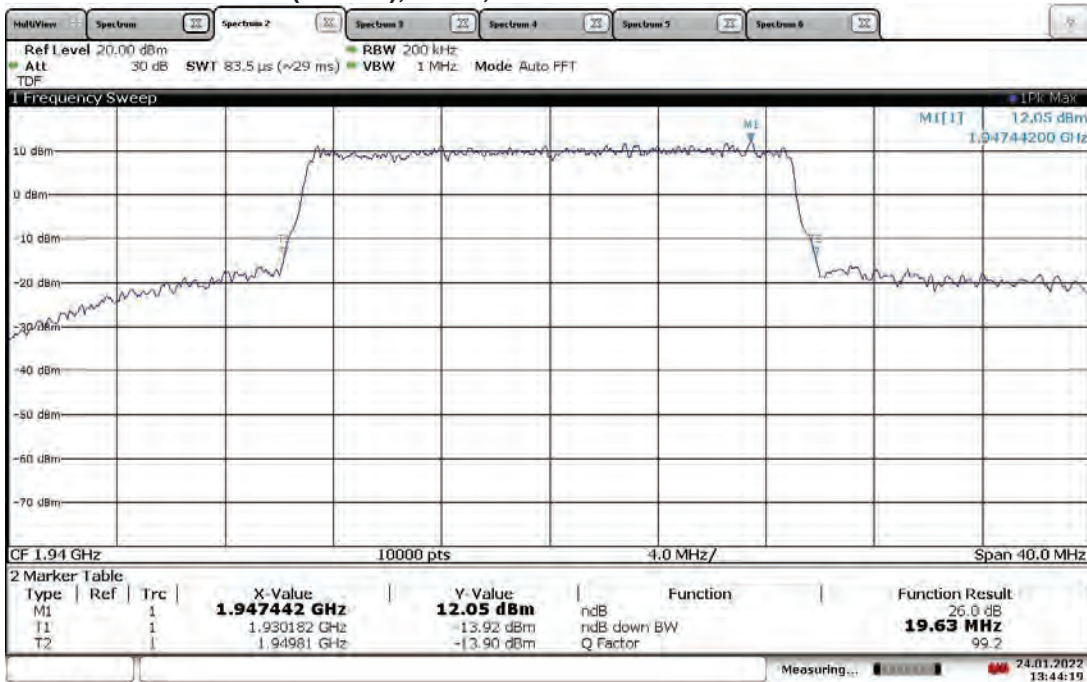
14:42:19 21.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth



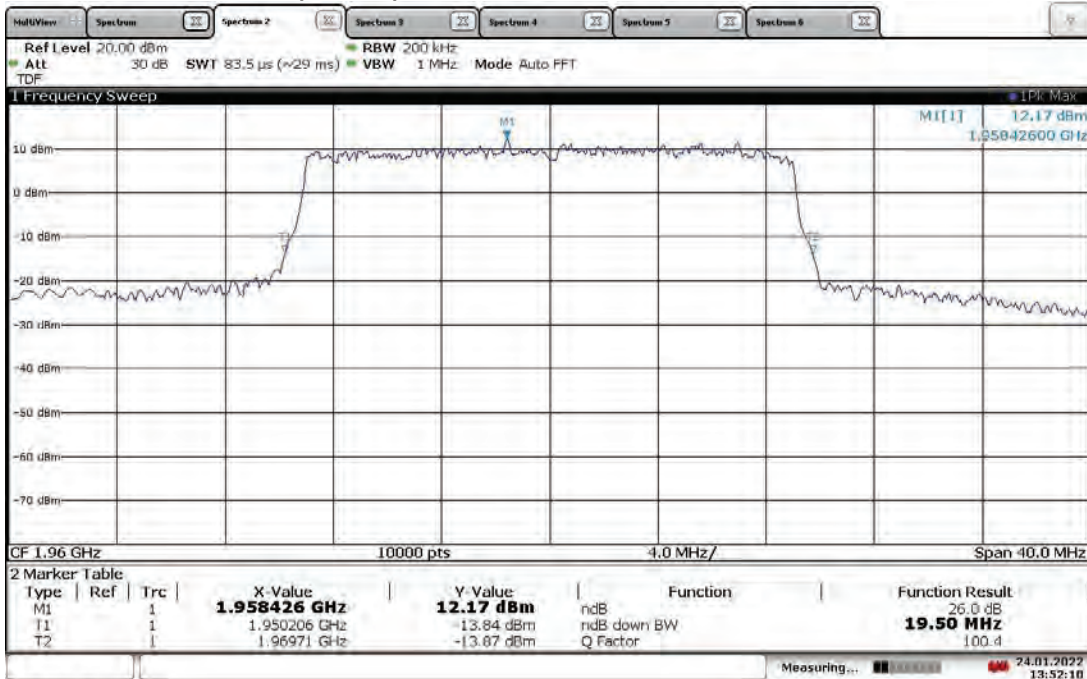
13:46:22 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth



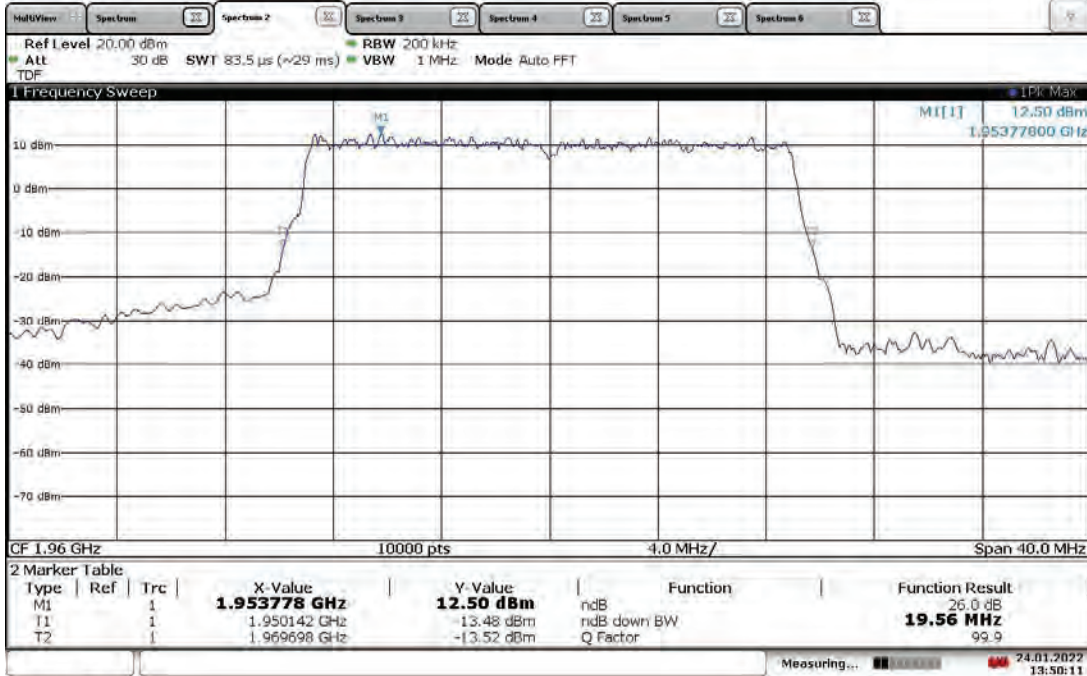
13:44:20 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth



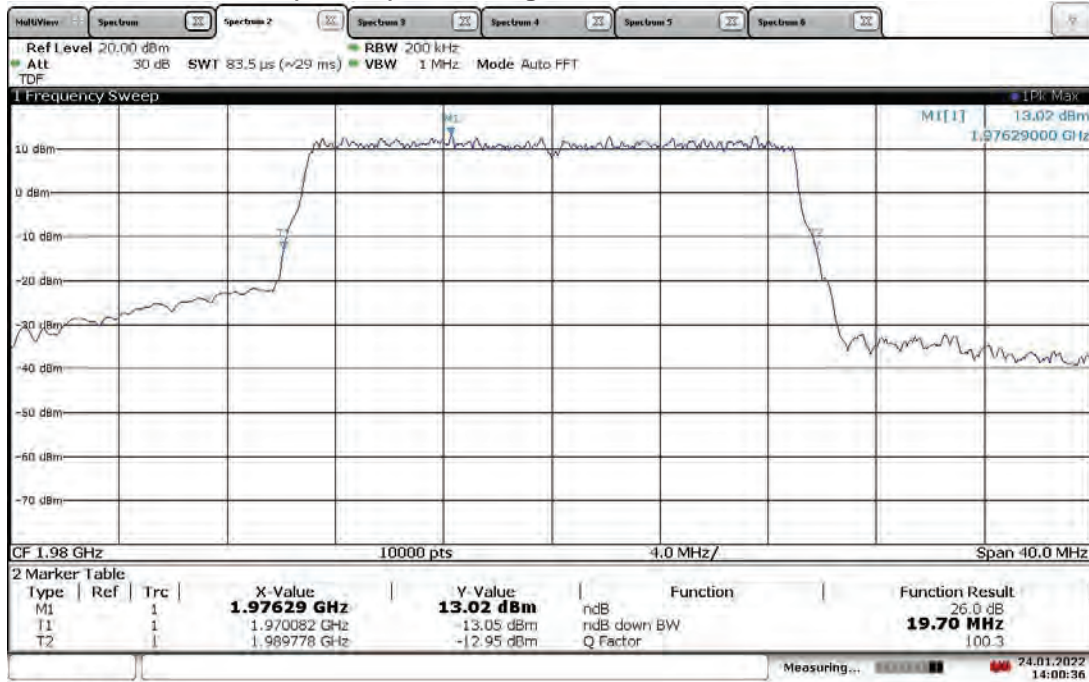
13:52:10 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth



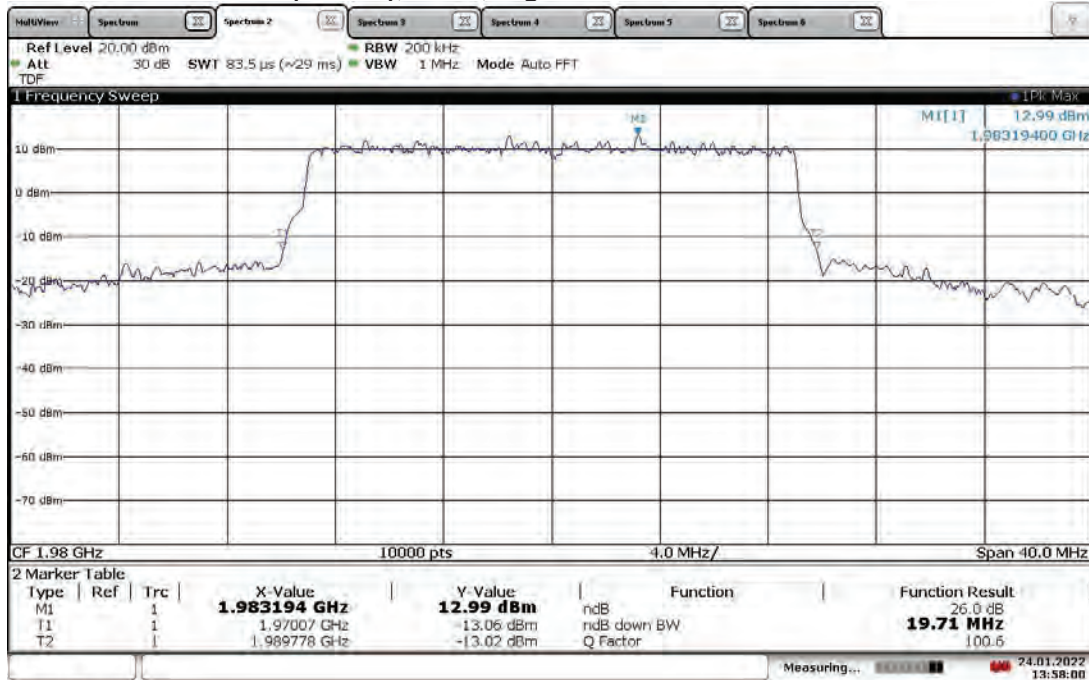
13:50:12 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth



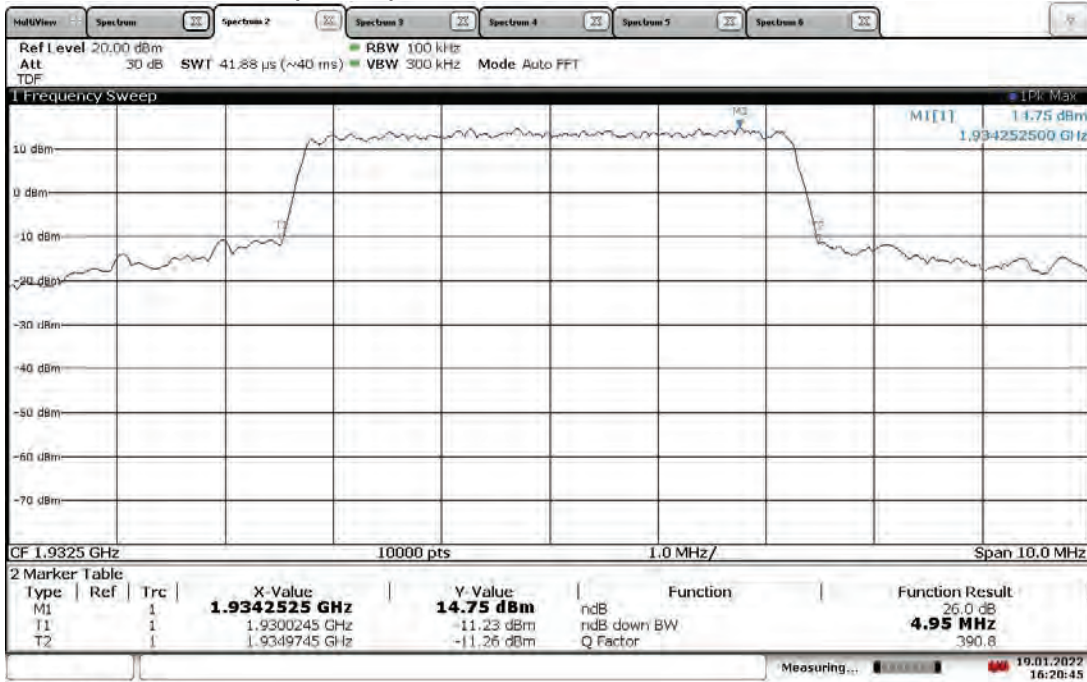
14:00:36 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth



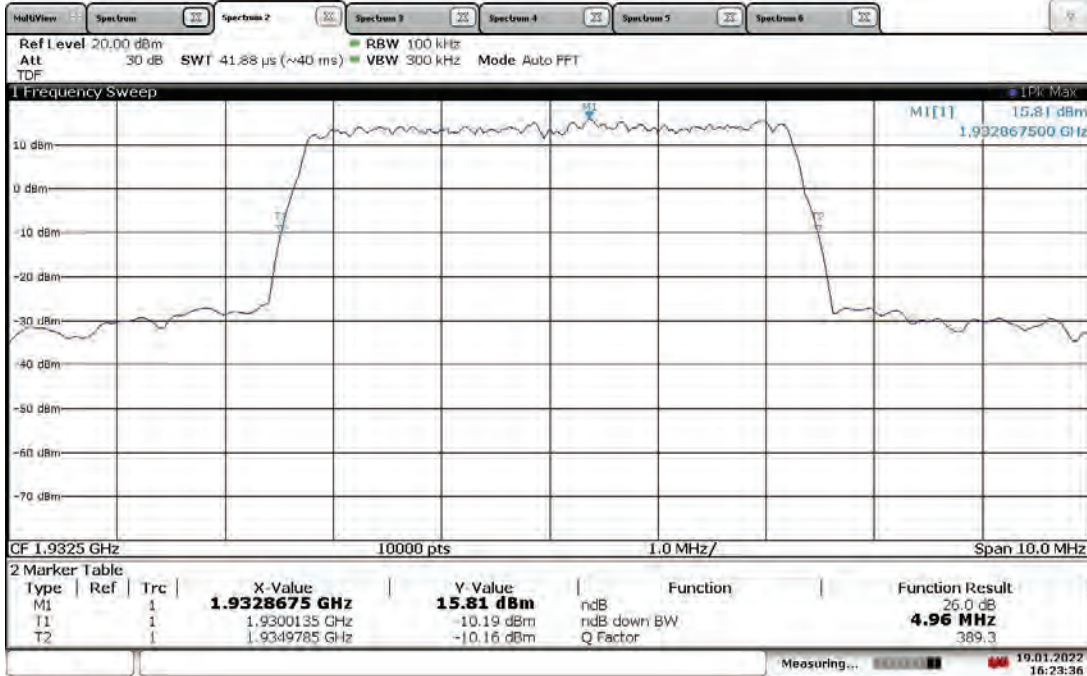
13:58:00 24.01.2022

TM3.1a-256QAM_5 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth



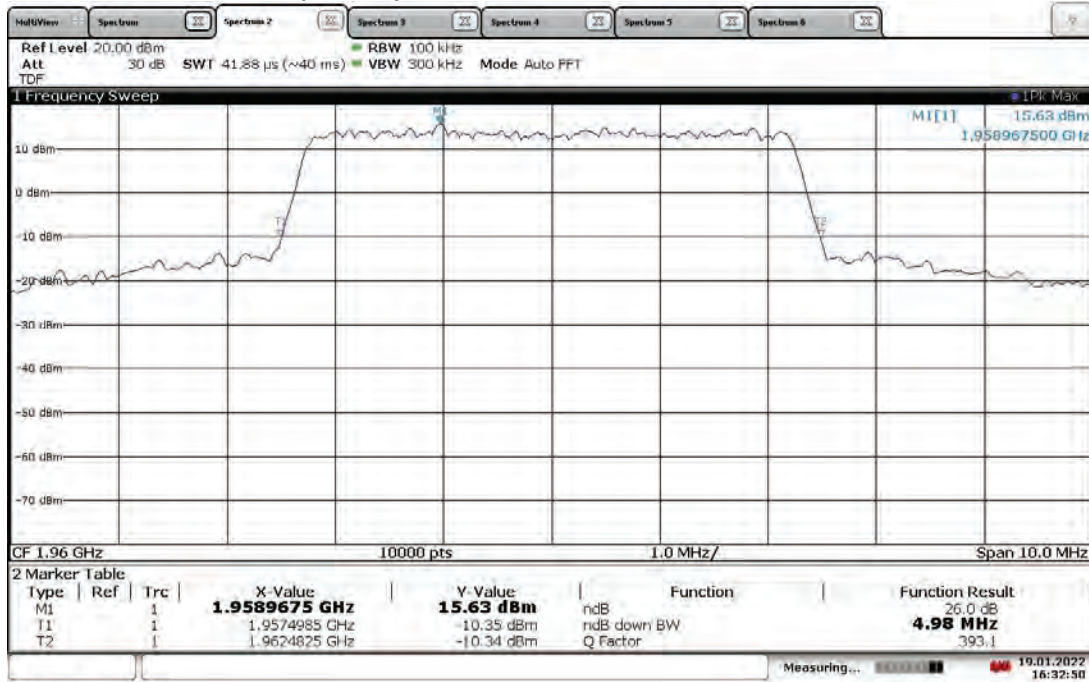
16:20:45 19.01.2022

TM3.1a-256QAM_5 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth



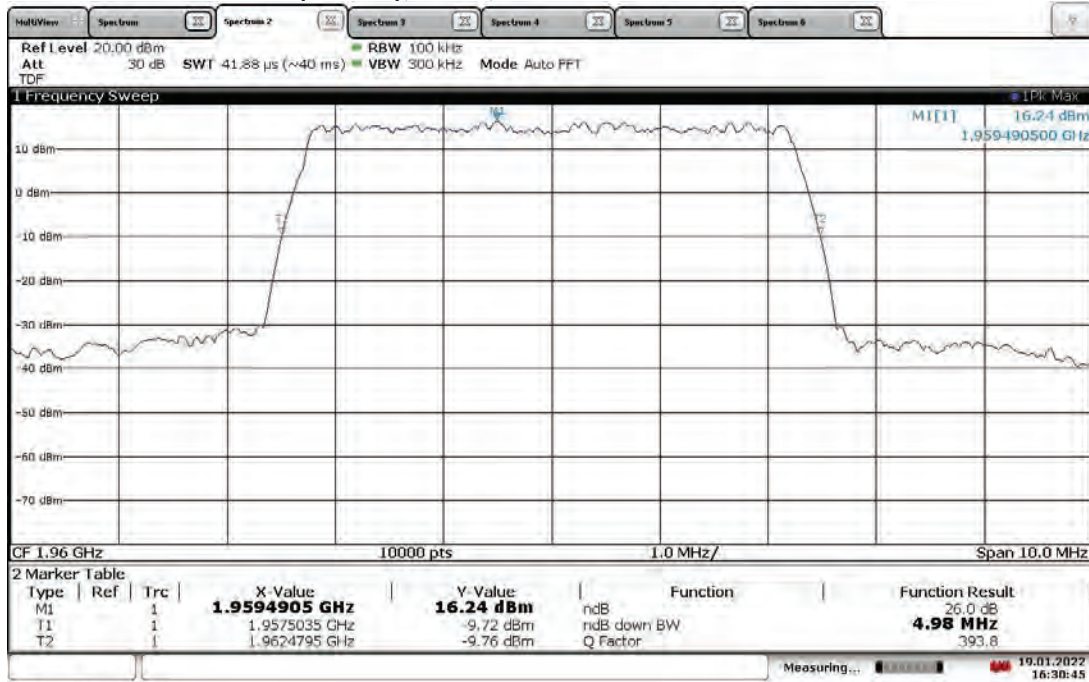
16:23:37 19.01.2022

TM3.1a-256QAM_5 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth



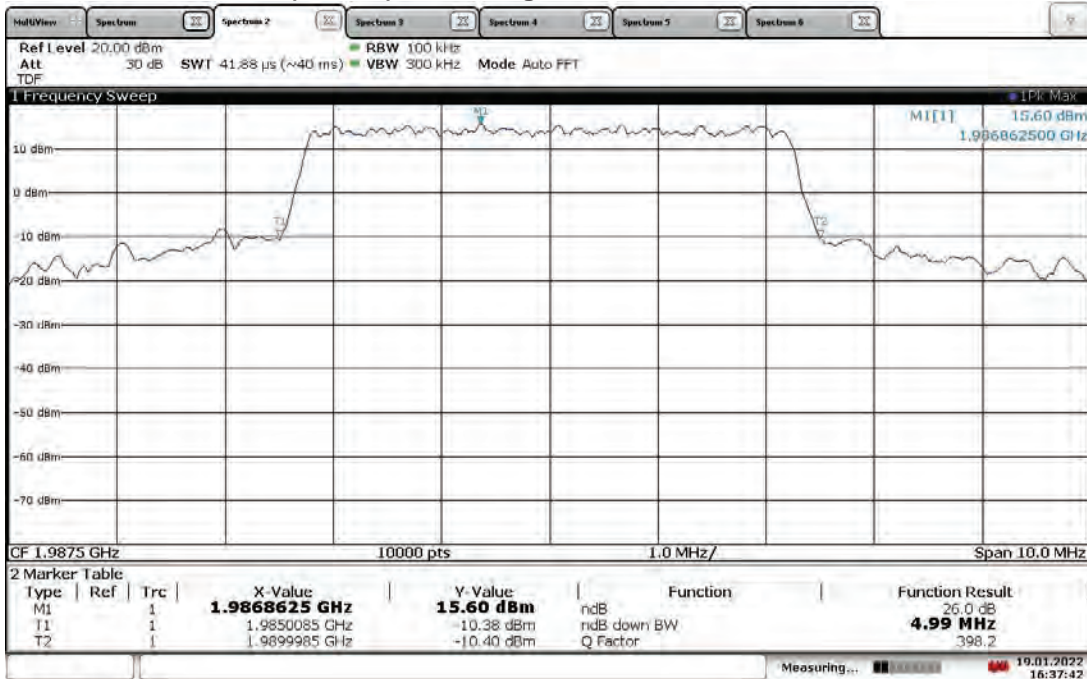
16:32:50 19.01.2022

TM3.1a-256QAM_5 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth



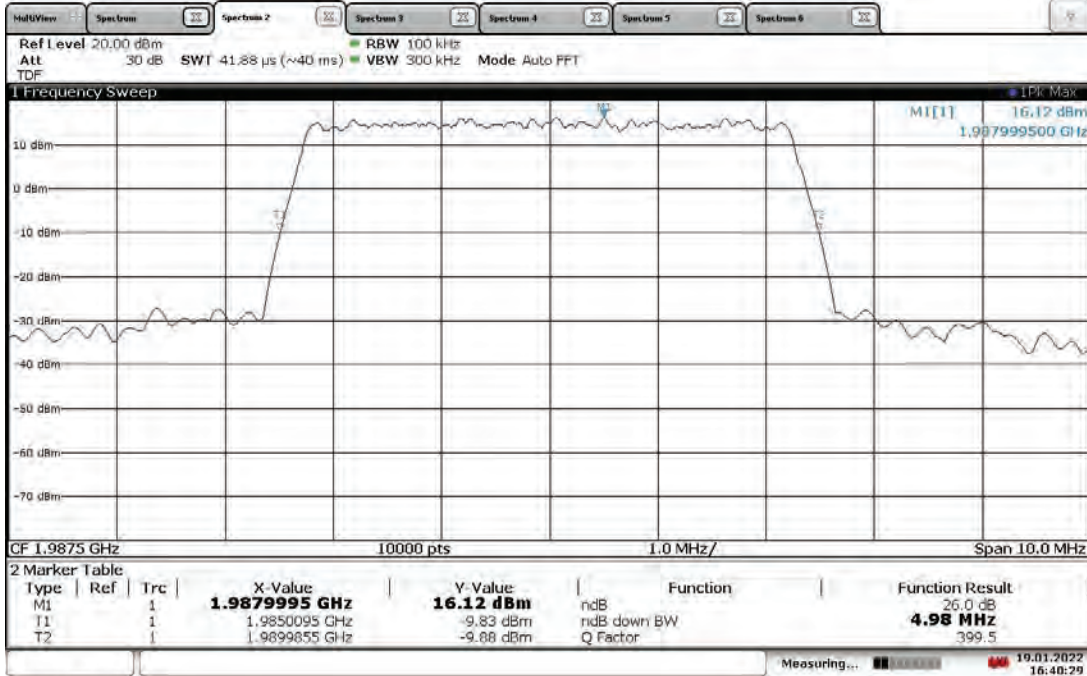
16:30:45 19.01.2022

TM3.1a-256QAM_5 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth



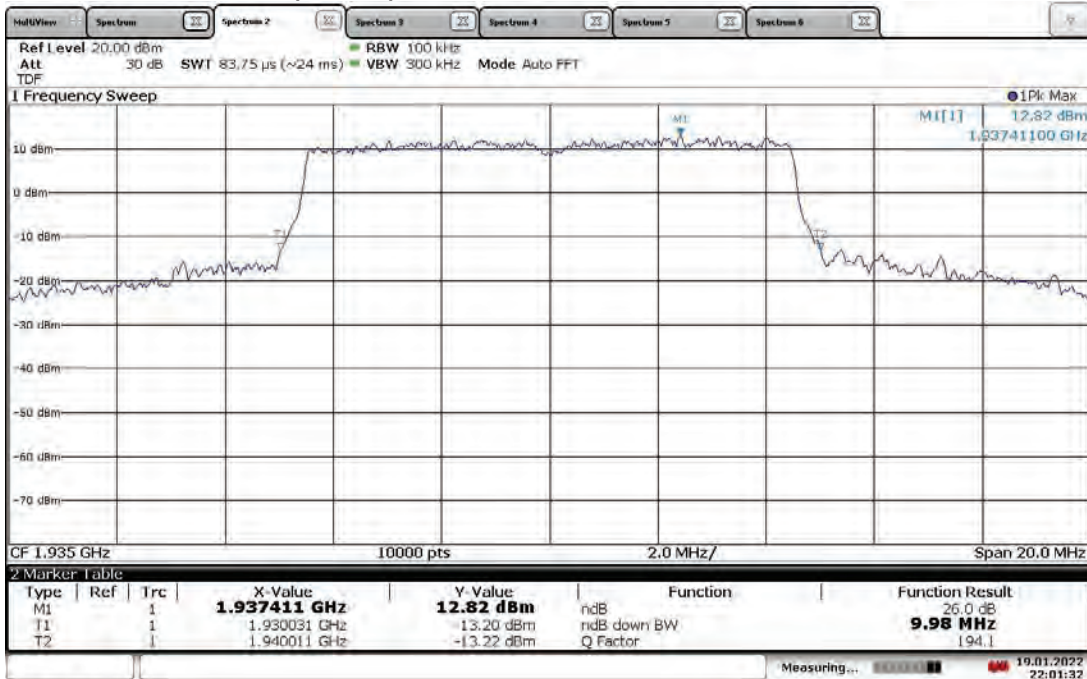
16:37:43 19.01.2022

TM3.1a-256QAM_5 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth



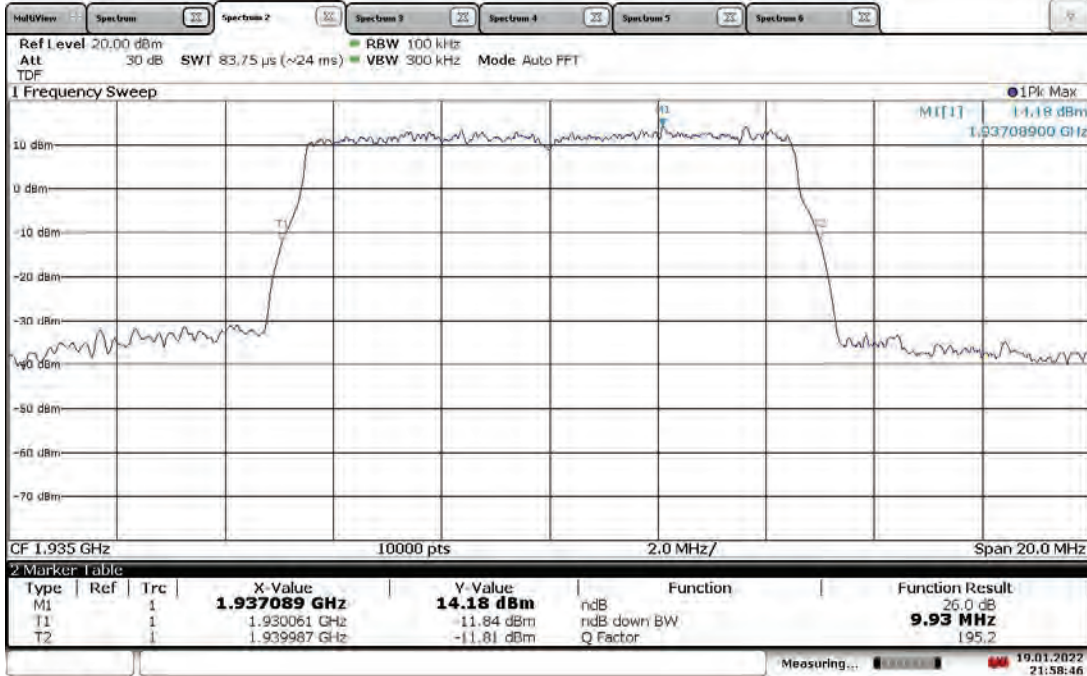
16:40:29 19.01.2022

TM3.1a-256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth



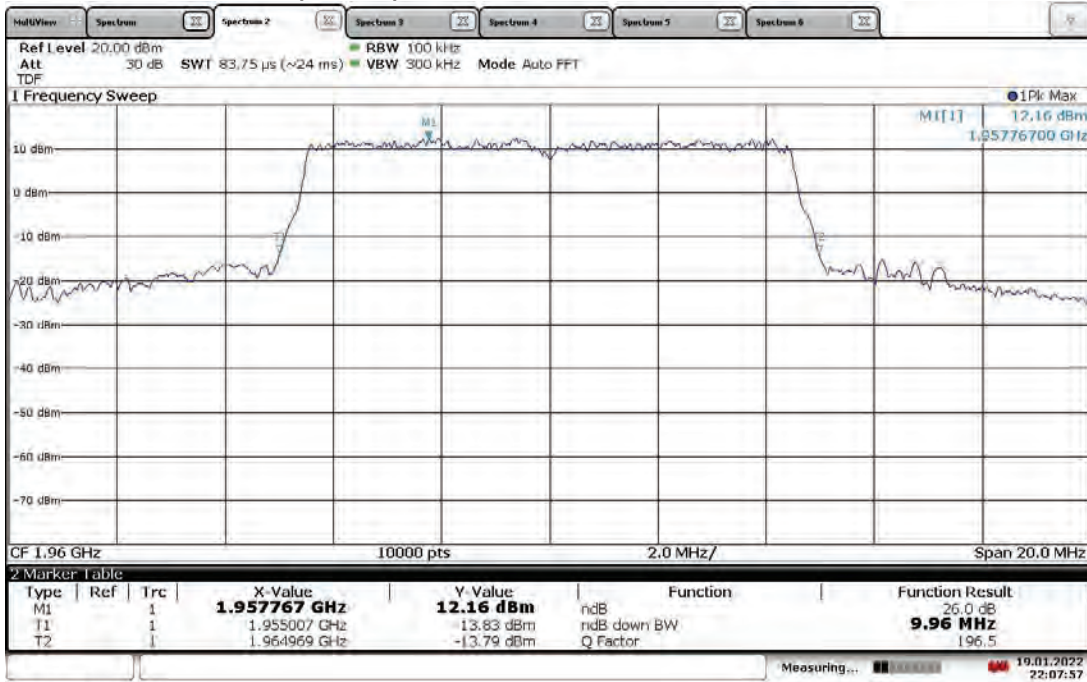
22:01:32 19.01.2022

TM3.1a-256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth



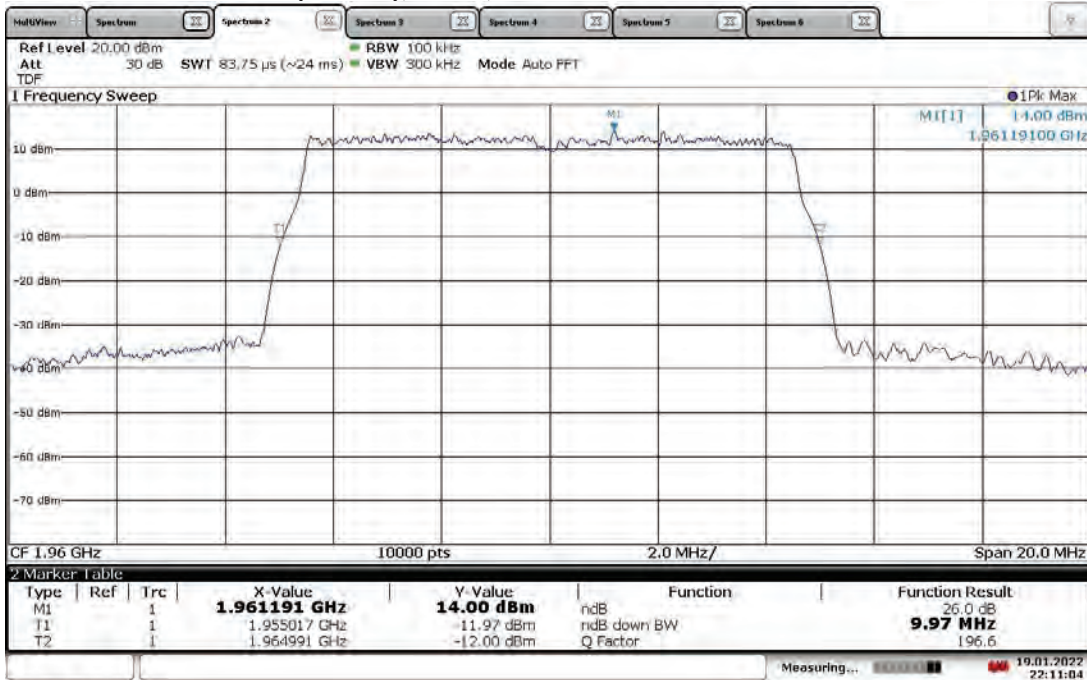
21:58:46 19.01.2022

**TM3.1a-256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth**



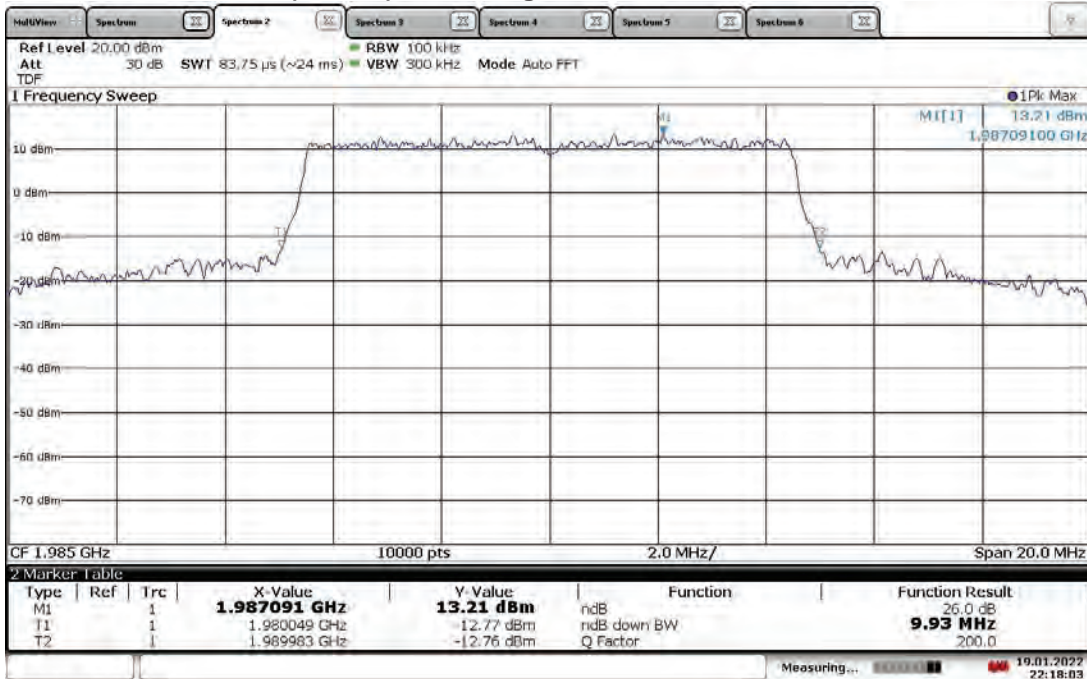
22:07:57 19.01.2022

**TM3.1a-256QAM_10 MHz Bandwidth (5G nR)h
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth**



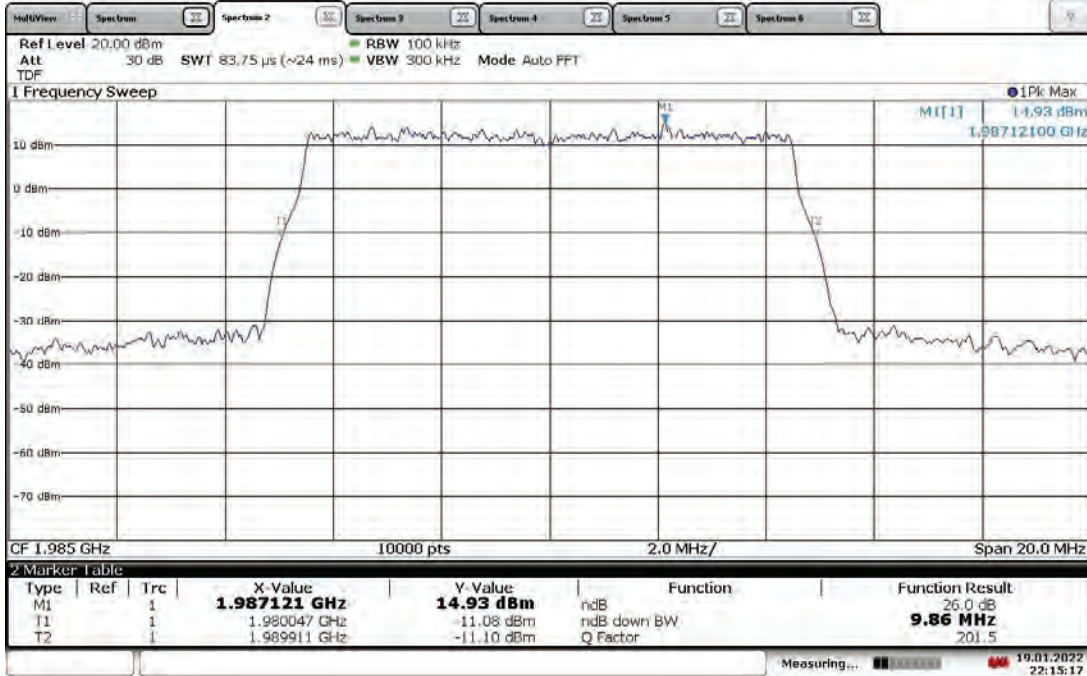
22:11:04 19.01.2022

TM3.1a-256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth



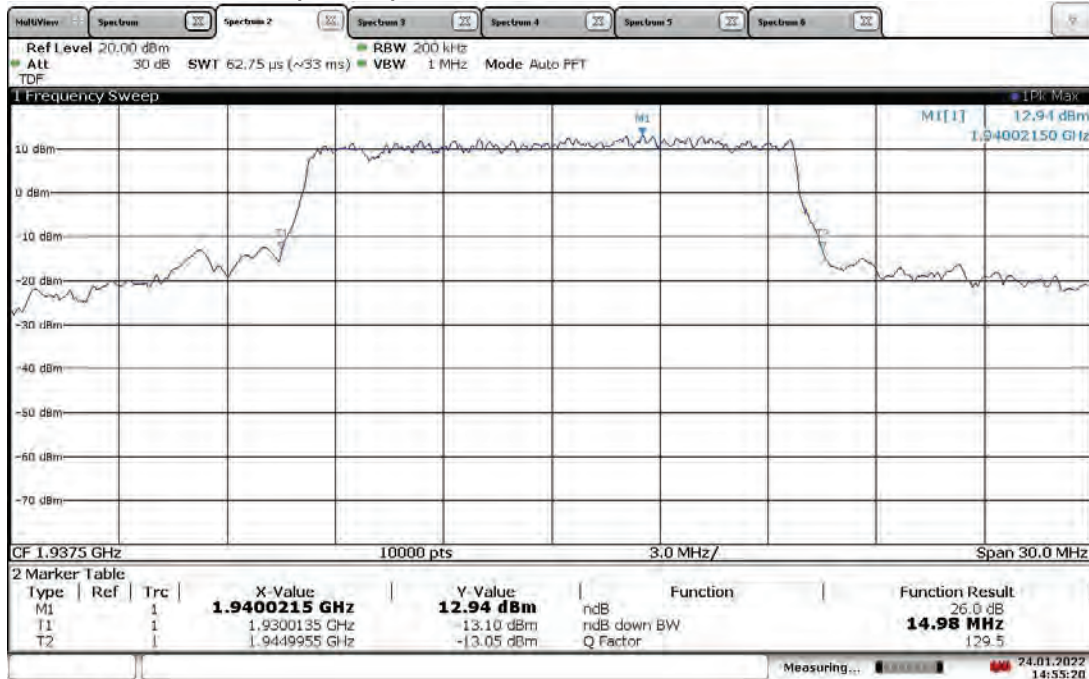
22:18:04 19.01.2022

TM3.1a-256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth



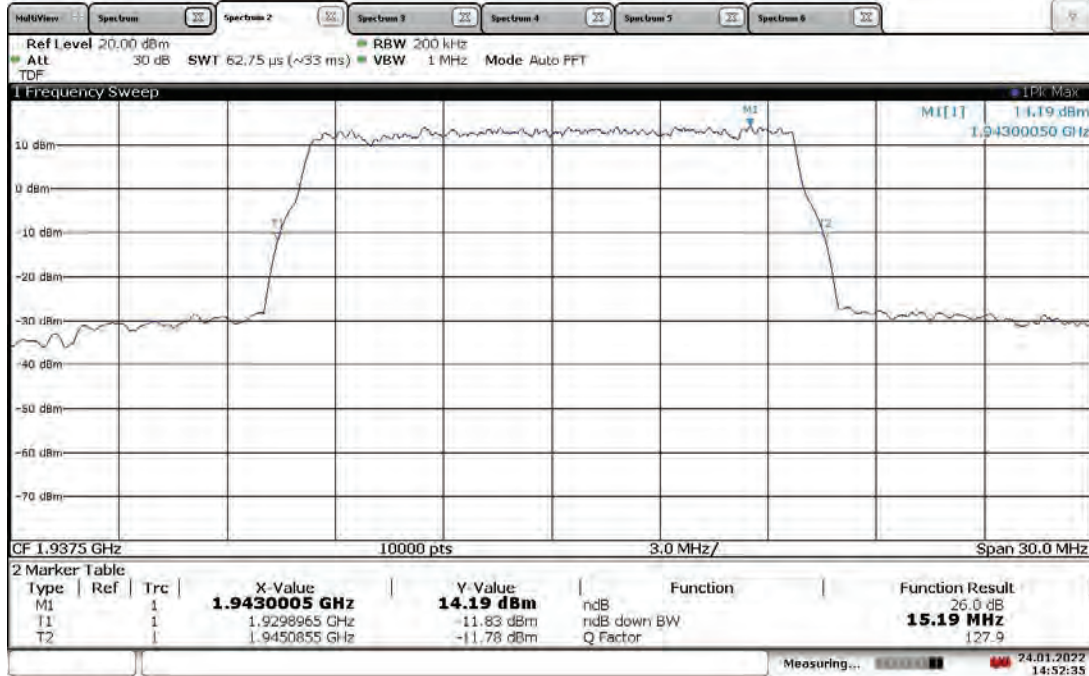
22:15:17 19.01.2022

**TM3.1a-256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth**



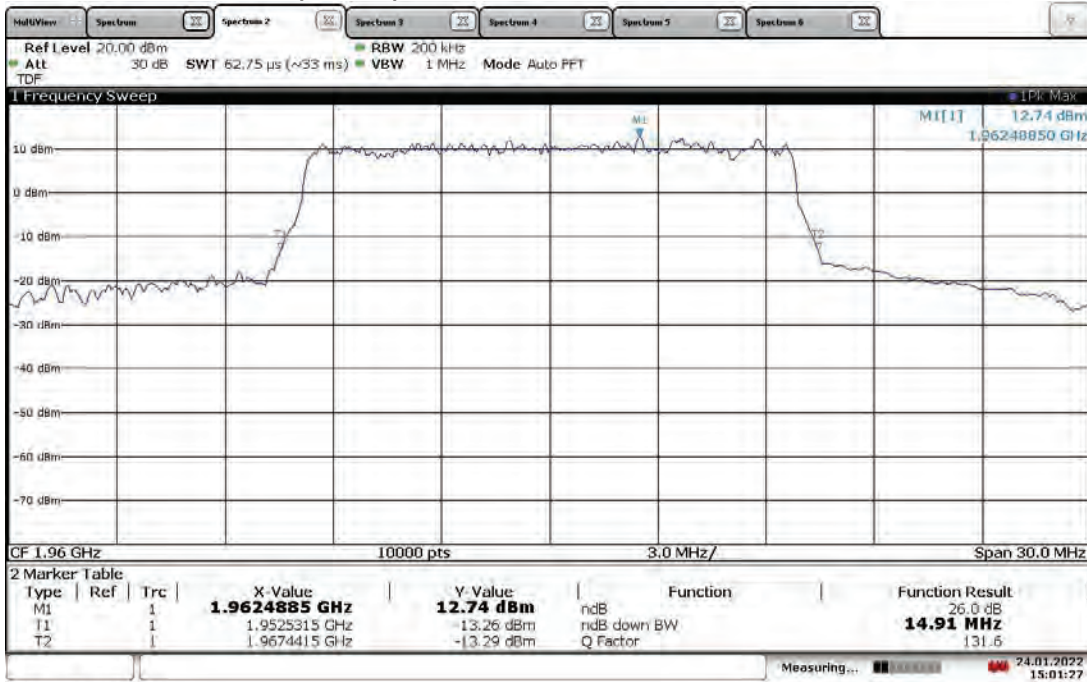
14:55:20 24.01.2022

**TM3.1a-256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth**



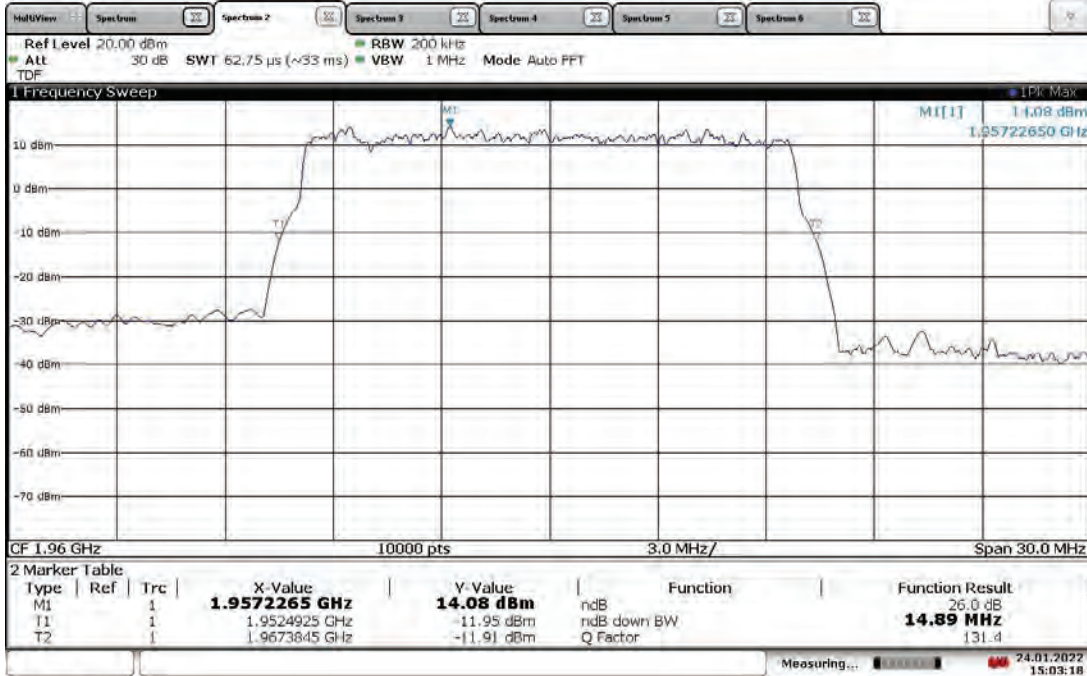
14:52:36 24.01.2022

**TM3.1a-256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth**



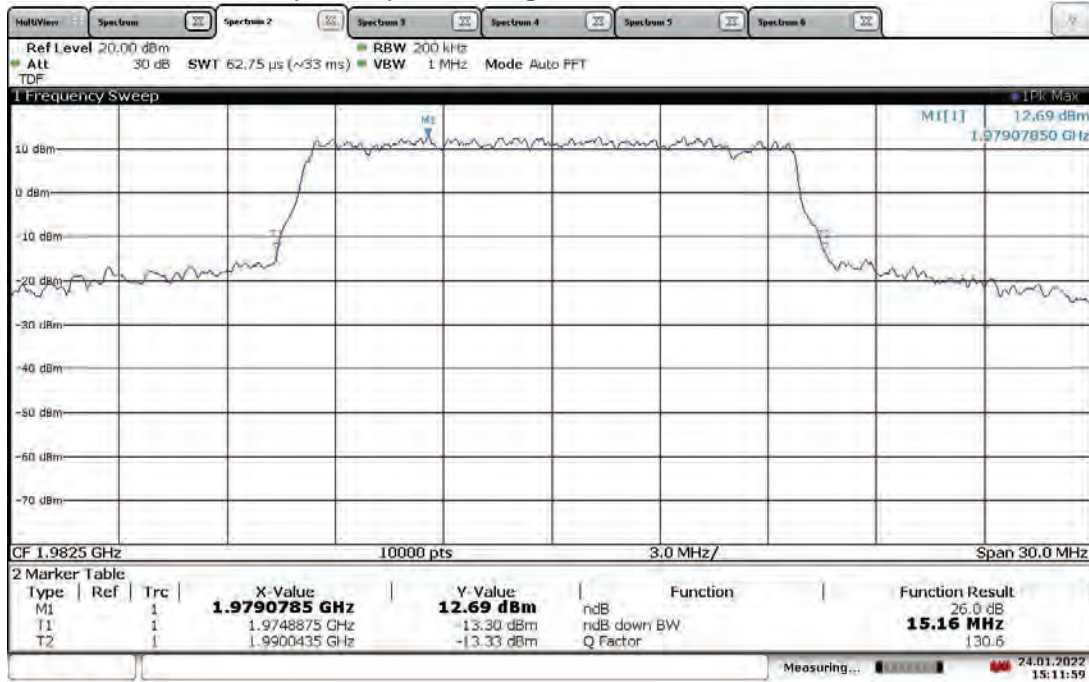
15:01:27 24.01.2022

**TM3.1a-256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth**



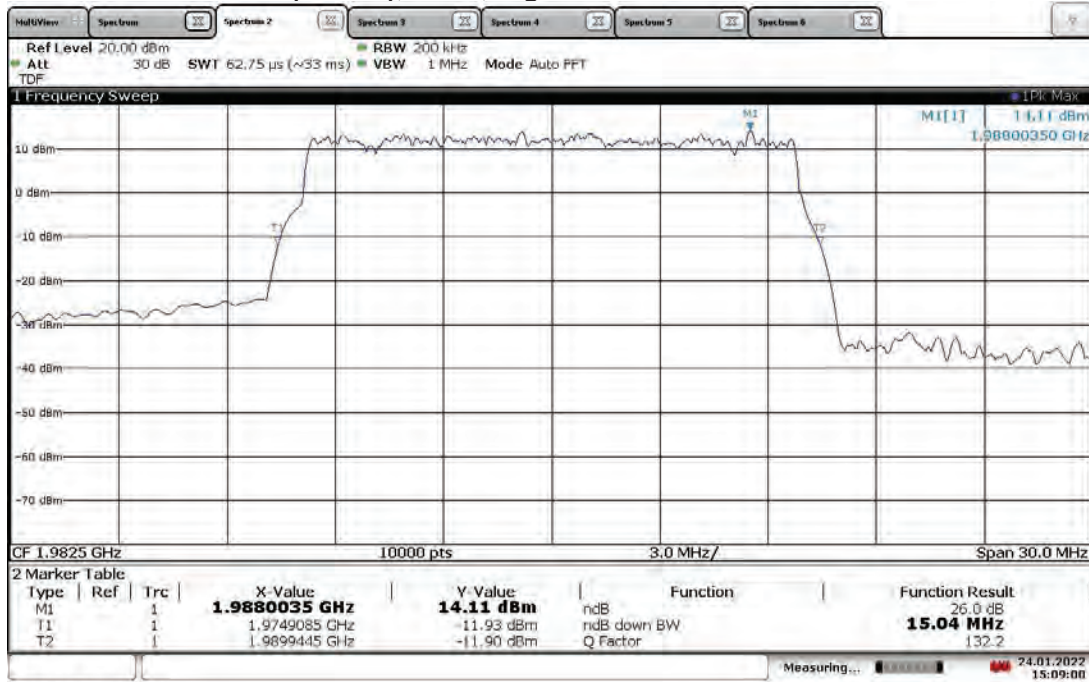
15:03:19 24.01.2022

TM3.1a-256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth



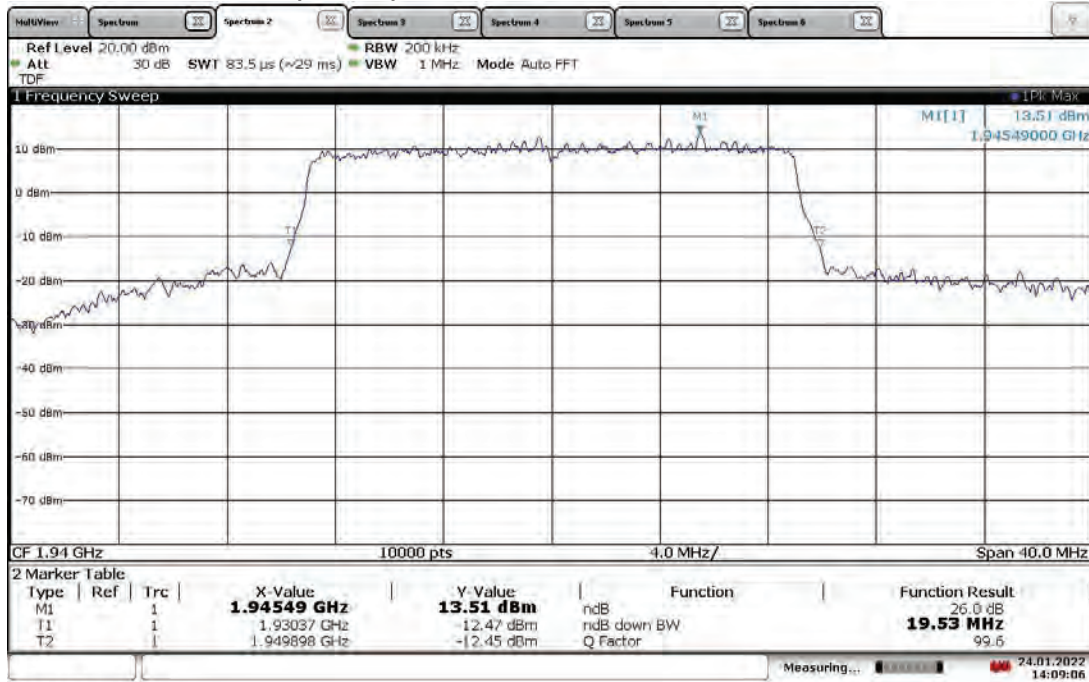
15:11:59 24.01.2022

TM3.1a-256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth



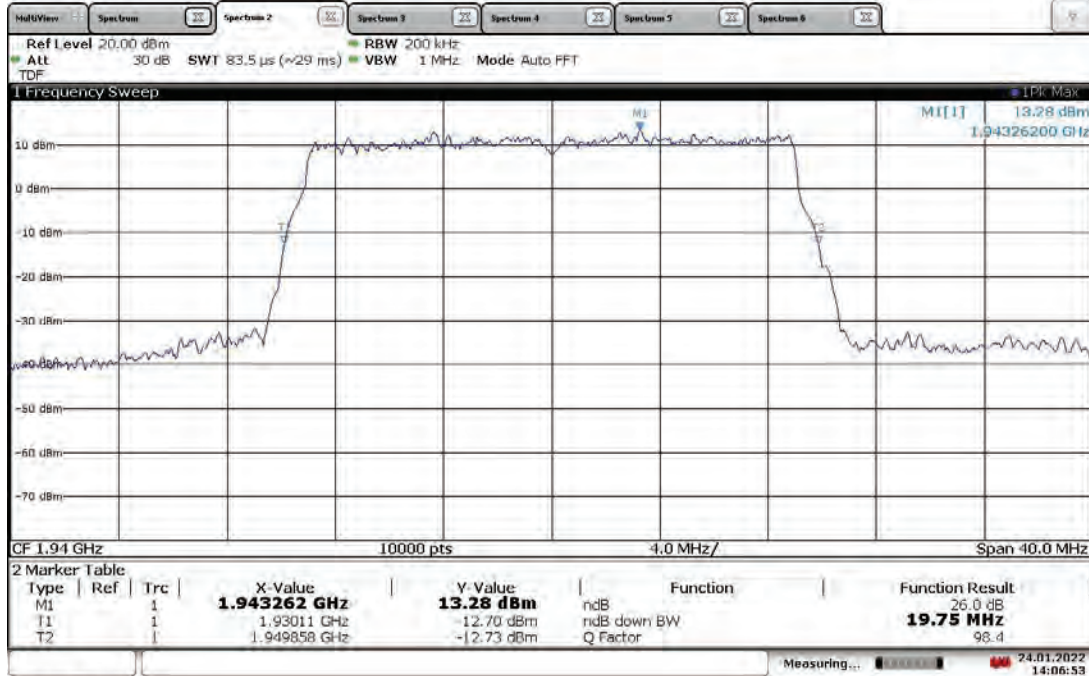
15:09:00 24.01.2022

**TM3.1a-256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Low Channel 26 dB Bandwidth**



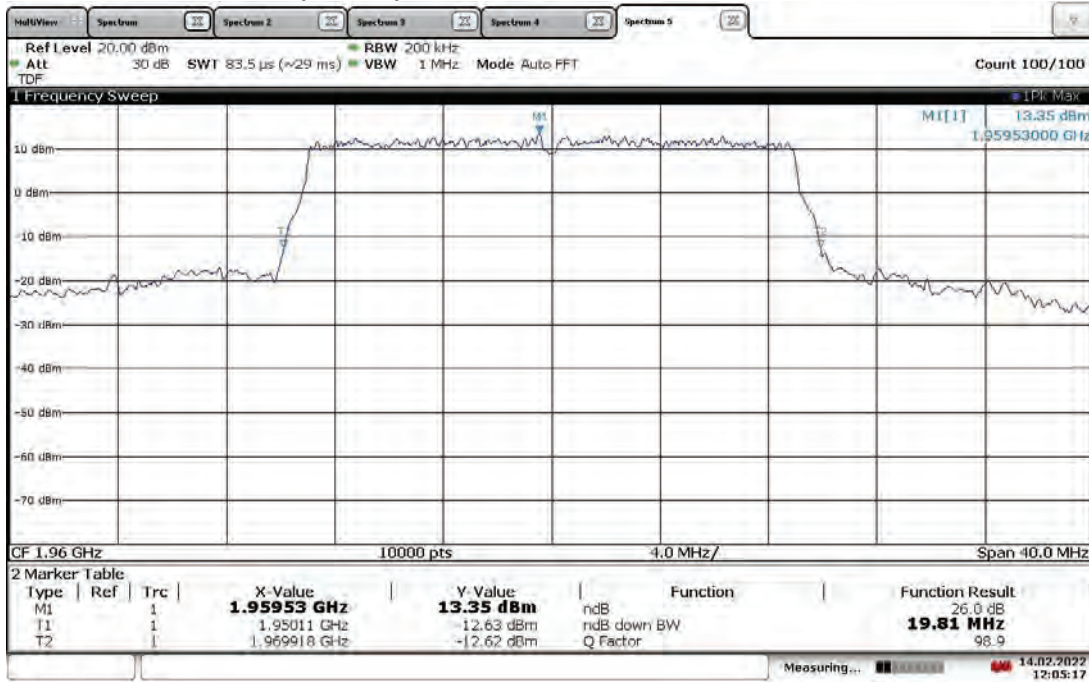
14:09:06 24.01.2022

**TM3.1a-256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Low Channel 26 dB Bandwidth**



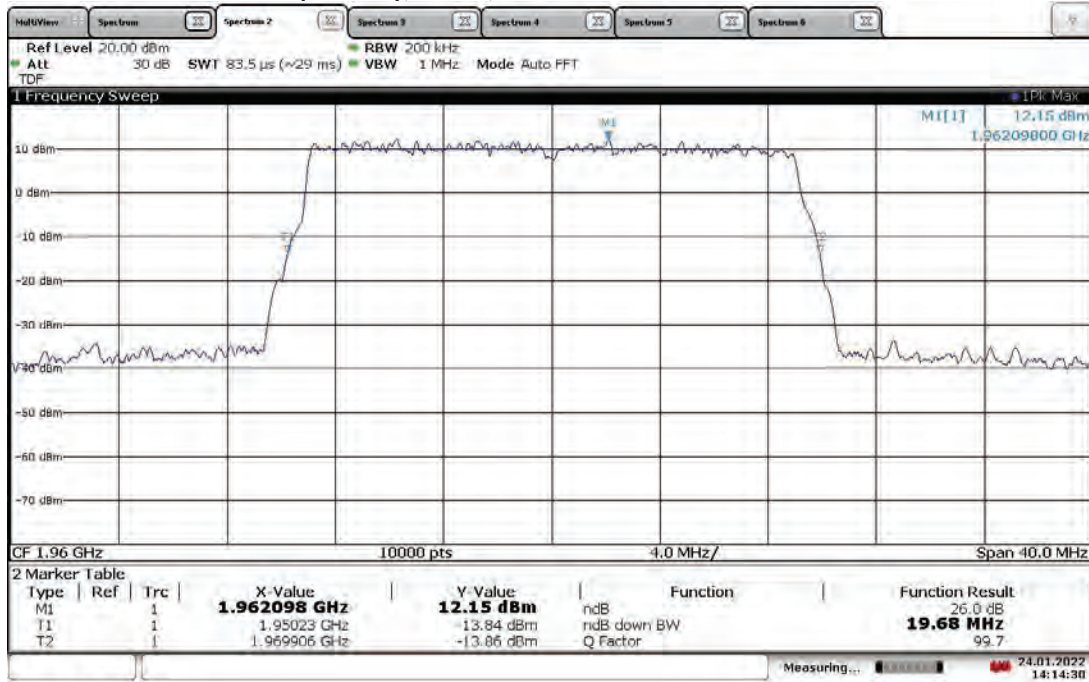
14:06:53 24.01.2022

**TM3.1a-256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, Mid Channel 26 dB Bandwidth**



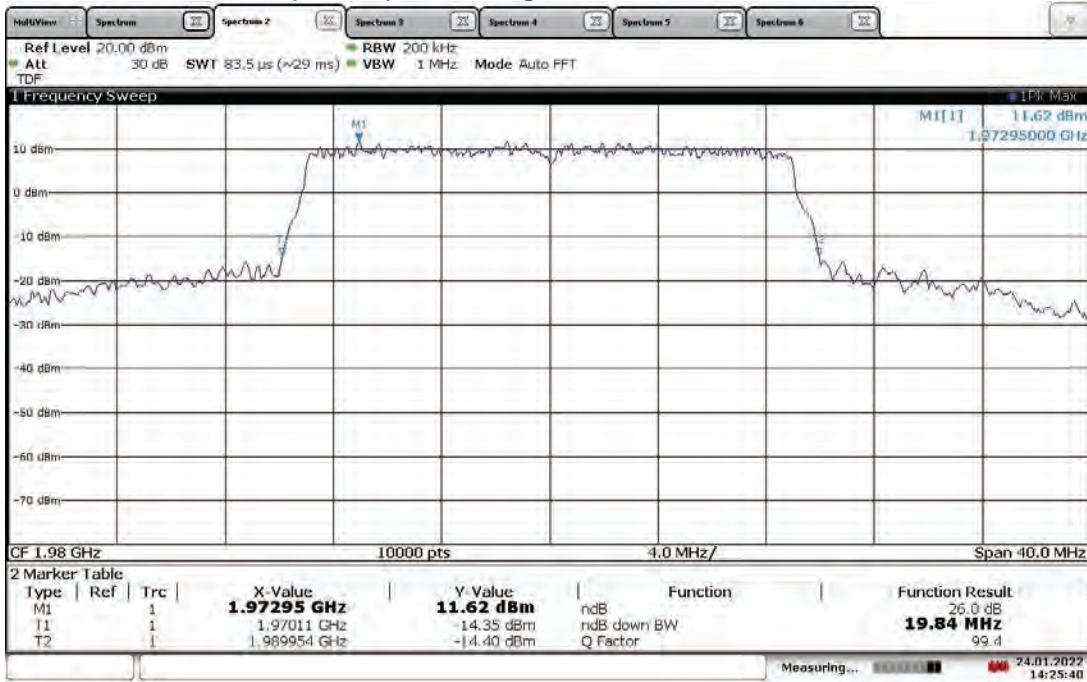
12:05:17 14.02.2022

**TM3.1a-256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, Mid Channel 26 dB Bandwidth**



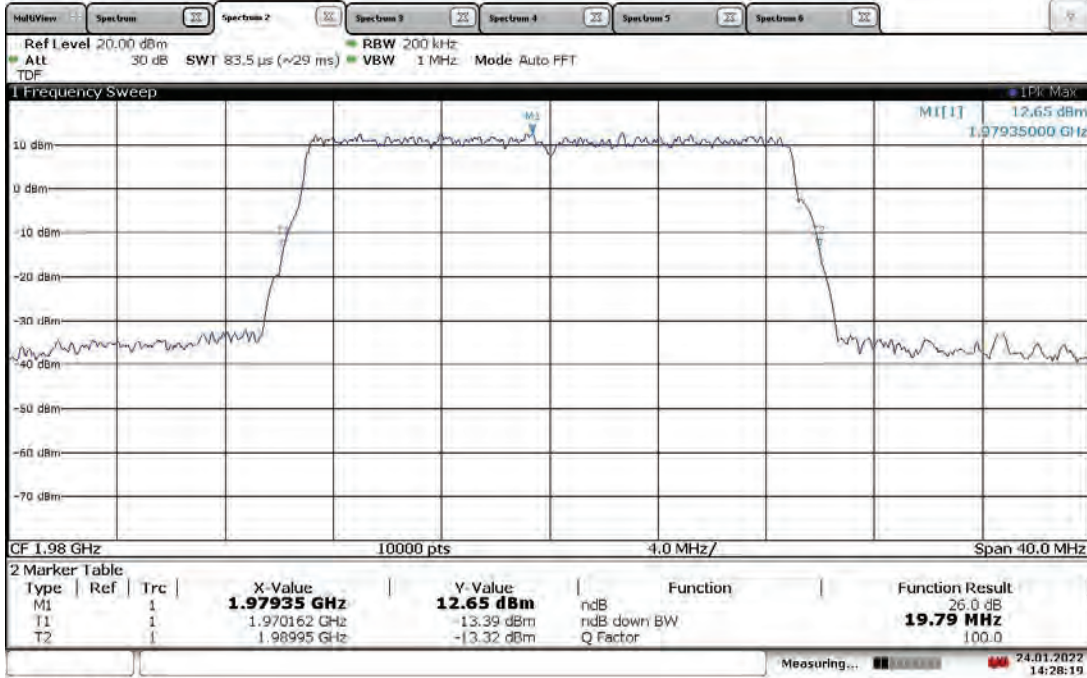
14:14:31 24.01.2022

**TM3.1a-256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT0, High Channel 26 dB Bandwidth**



14:25:40 24.01.2022

**TM3.1a-256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 2), ANT1, High Channel 26 dB Bandwidth**



14:28:19 24.01.2022

Intertek

Report Number: 104915434BOX-001

Issued: 02/24/2022
Revised: 03/30/2022

Test Personnel: Kouma Sinn *KPS*
Supervising/Reviewing
Engineer:
(Where Applicable) N/A

Test Date: 01/19/2022, 01/21/2022, 01/24/2022

Product Standard: FCC Part 24
Input Voltage: 48 VDC (POE)

Limit Applied: See report section 8.3

Pretest Verification w/
Ambient Signals or
BB Source: N/A

Ambient Temperature: 24, 24, 23 °C

Relative Humidity: 15, 8, 12 %

Atmospheric Pressure: 1003, 1025, 1002 mbars

Deviations, Additions, or Exclusions: None

9 Band Edge Compliance

9.1 Method

Tests are performed in accordance with ANSI C63.26 and CFR47 FCC Parts 2.1051, 2.1053, and 24.

TEST SITE: EMC Lab & 10m ALSE

The EMC Lab has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

9.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|-----------------|------------------------------------|--------------------|------------|-------------|------------|------------|
| DAV005' | Weather Station | Davis | 6250 | MS191218083 | 02/07/2021 | 02/07/2022 |
| ROS005-1' | Signal and Spectrum Analyzer | Rohde and Schwartz | FSW43 | 100646 | 11/02/2021 | 11/02/2022 |
| CEN001' | DC-40GHz attenuator 20dB | Centric RF | C411-20 | CEN001 | 01/26/2022 | 01/26/2023 |
| CBLHF2012-2M-2' | 2m 9kHz-40GHz Coaxial Cable - SET2 | Huber & Suhner | SF102 | 252675002 | 02/10/2021 | 02/10/2022 |
| MIN26 | 50Watt 20dB attenuator | Mini Circuits | BW-N20W50+ | VY573711721 | 07/23/2021 | 07/23/2022 |

Software Utilized:

| Name | Manufacturer | Version |
|------|--------------|---------|
| None | -- | -- |

9.3 Results:

The sample tested was found to Comply.

§24.238(a)(b) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Intertek

Report Number: 104915434BOX-001

Issued: 02/24/2022
Revised: 03/30/2022

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM1.1-QPSK (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -17.04 | -13 | -4.04 |
| | | ANT1 | -31.34 | -13 | -18.34 |
| High | 1987.50 | ANT0 | -15.09 | -13 | -2.09 |
| | | ANT1 | -26.36 | -13 | -13.36 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM1.1-QPSK (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -20.06 | -13 | -7.06 |
| | | ANT1 | -32.87 | -13 | -19.87 |
| High | 1985.00 | ANT0 | -17.99 | -13 | -4.99 |
| | | ANT1 | -32.75 | -13 | -19.75 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM1.1-QPSK (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.50 | ANT0 | -20.88 | -13 | -7.88 |
| | | ANT1 | -35.91 | -13 | -22.91 |
| High | 1982.50 | ANT0 | -19.13 | -13 | -6.13 |
| | | ANT1 | -36.85 | -13 | -23.85 |

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM1.1-QPSK (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940 | ANT0 | -21.35 | -13 | -8.35 |
| | | ANT1 | -36.50 | -13 | -23.5 |
| High | 1980 | ANT0 | -20.94 | -13 | -7.94 |
| | | ANT1 | -36.72 | -13 | -23.72 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM3.2-16QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -17.35 | -13 | -4.35 |
| | | ANT1 | -31.78 | -13 | -18.78 |
| High | 1987.50 | ANT0 | -17.18 | -13 | -4.18 |
| | | ANT1 | -26.13 | -13 | -13.13 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM3.2-16QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -33.94 | -13 | -20.94 |
| | | ANT1 | -18.39 | -13 | -5.39 |
| High | 1985.00 | ANT0 | -18.86 | -13 | -5.86 |
| | | ANT1 | -33.18 | -13 | -20.18 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM3.2-16QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.50 | ANT0 | -19.51 | -13 | -6.51 |
| | | ANT1 | -35.34 | -13 | -22.34 |
| High | 1982.50 | ANT0 | -20.88 | -13 | -7.88 |
| | | ANT1 | -36.68 | -13 | -23.68 |

Intertek

Report Number: 104915434BOX-001

Issued: 02/24/2022
Revised: 03/30/2022

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM3.2-16QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940.00 | ANT0 | -21.15 | -13 | -8.15 |
| | | ANT1 | -36.43 | -13 | -23.43 |
| High | 1980.00 | ANT0 | -22.68 | -13 | -9.68 |
| | | ANT1 | -36.77 | -13 | -23.77 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM3.1-64QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -16.40 | -13 | -3.4 |
| | | ANT1 | -31.70 | -13 | -18.7 |
| High | 1987.50 | ANT0 | -16.87 | -13 | -3.87 |
| | | ANT1 | -29.18 | -13 | -16.18 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM3.1-64QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -19.24 | -13 | -6.24 |
| | | ANT1 | -33.76 | -13 | -20.76 |
| High | 1985.00 | ANT0 | -19.98 | -13 | -6.98 |
| | | ANT1 | -30.22 | -13 | -17.22 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM3.1-64QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.50 | ANT0 | -18.91 | -13 | -5.91 |
| | | ANT1 | -35.66 | -13 | -22.66 |
| High | 1982.50 | ANT0 | -21.60 | -13 | -8.6 |
| | | ANT1 | -35.20 | -13 | -22.2 |

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM3.1-64QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940.00 | ANT0 | -20.90 | -13 | -7.9 |
| | | ANT1 | -36.82 | -13 | -23.82 |
| High | 1980.00 | ANT0 | -20.51 | -13 | -7.51 |
| | | ANT1 | -36.61 | -13 | -23.61 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM3.1a-256QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -16.47 | -13 | -3.47 |
| | | ANT1 | -31.24 | -13 | -18.24 |
| High | 1987.50 | ANT0 | -14.56 | -13 | -1.56 |
| | | ANT1 | -27.44 | -13 | -14.44 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM3.1a-256QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -18.62 | -13 | -5.62 |
| | | ANT1 | -31.34 | -13 | -18.34 |
| High | 1985.00 | ANT0 | -18.81 | -13 | -5.81 |
| | | ANT1 | -32.61 | -13 | -19.61 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM3.1a-256QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.00 | ANT0 | -19.49 | -13 | -6.49 |
| | | ANT1 | -35.56 | -13 | -22.56 |
| High | 1982.50 | ANT0 | -18.84 | -13 | -5.84 |
| | | ANT1 | -36.57 | -13 | -23.57 |

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Issued: 02/24/2022

Revised: 03/30/2022

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM3.1a-256QAM (4G LTE)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940.50 | ANT0 | -21.46 | -13 | -8.46 |
| | | ANT1 | -34.43 | -13 | -21.43 |
| High | 1980.00 | ANT0 | -21.18 | -13 | -8.18 |
| | | ANT1 | -37.31 | -13 | -24.31 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM1.1-QPSK (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -16.98 | -13 | -3.98 |
| | | ANT1 | -31.90 | -13 | -18.9 |
| High | 1987.50 | ANT0 | -16.16 | -13 | -3.16 |
| | | ANT1 | -24.41 | -13 | -11.41 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM1.1-QPSK (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -19.02 | -13 | -6.02 |
| | | ANT1 | -32.11 | -13 | -19.11 |
| High | 1985.00 | ANT0 | -18.84 | -13 | -5.84 |
| | | ANT1 | -26.38 | -13 | -13.38 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM1.1-QPSK (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.50 | ANT0 | -19.35 | -13 | -6.35 |
| | | ANT1 | -32.28 | -13 | -19.28 |
| High | 1982.50 | ANT0 | -20.61 | -13 | -7.61 |
| | | ANT1 | -32.87 | -13 | -19.87 |

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM1.1-QPSK (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940 | ANT0 | -32.90 | -13 | -19.9 |
| | | ANT1 | -21.59 | -13 | -8.59 |
| High | 1980 | ANT0 | -21.09 | -13 | -8.09 |
| | | ANT1 | -34.20 | -13 | -21.2 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM3.2-16QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -16.98 | -13 | -3.98 |
| | | ANT1 | -31.86 | -13 | -18.86 |
| High | 1987.50 | ANT0 | -16.70 | -13 | -3.70 |
| | | ANT1 | -25.44 | -13 | -12.44 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM3.2-16QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -19.00 | -13 | -6.00 |
| | | ANT1 | -32.93 | -13 | -19.93 |
| High | 1985.00 | ANT0 | -18.68 | -13 | -5.68 |
| | | ANT1 | -26.90 | -13 | -13.90 |

Intertek

Report Number: 104915434BOX-001

Issued: 02/24/2022
Revised: 03/30/2022

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM3.2-16QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.50 | ANT0 | -20.17 | -13 | -7.17 |
| | | ANT1 | -34.72 | -13 | -21.72 |
| High | 1982.50 | ANT0 | -19.67 | -13 | -6.67 |
| | | ANT1 | -31.24 | -13 | -18.24 |

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM3.2-16QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940.00 | ANT0 | -21.14 | -13 | -8.14 |
| | | ANT1 | -24.95 | -13 | -11.95 |
| High | 1980.00 | ANT0 | -20.89 | -13 | -7.89 |
| | | ANT1 | -31.14 | -13 | -18.14 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM3.1-64QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -16.84 | -13 | -3.84 |
| | | ANT1 | -31.95 | -13 | -18.95 |
| High | 1987.50 | ANT0 | -14.53 | -13 | -1.53 |
| | | ANT1 | -28.39 | -13 | -15.39 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM3.1-64QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -19.04 | -13 | -6.04 |
| | | ANT1 | -32.90 | -13 | -19.9 |
| High | 1985.00 | ANT0 | -18.71 | -13 | -5.71 |
| | | ANT1 | -27.82 | -13 | -14.82 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM3.1-64QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.50 | ANT0 | -19.71 | -13 | -6.71 |
| | | ANT1 | -32.31 | -13 | -19.31 |
| High | 1982.50 | ANT0 | -19.65 | -13 | -6.65 |
| | | ANT1 | -36.20 | -13 | -23.2 |

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM3.1-64QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940.00 | ANT0 | -20.85 | -13 | -7.85 |
| | | ANT1 | -33.63 | -13 | -20.63 |
| High | 1980.00 | ANT0 | -21.54 | -13 | -8.54 |
| | | ANT1 | -33.07 | -13 | -20.07 |

Slot 0 (Band 2), Bandwidth: 5 MHz, Modulation: TM3.1a-256QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1932.50 | ANT0 | -16.87 | -13 | -3.87 |
| | | ANT1 | -31.17 | -13 | -18.17 |
| High | 1987.50 | ANT0 | -14.30 | -13 | -1.3 |
| | | ANT1 | -26.01 | -13 | -13.01 |

Slot 0 (Band 2), Bandwidth: 10 MHz, Modulation: TM3.1a-256QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1935.00 | ANT0 | -17.55 | -13 | -4.55 |
| | | ANT1 | -32.73 | -13 | -19.73 |
| High | 1985.00 | ANT0 | -17.37 | -13 | -4.37 |
| | | ANT1 | -29.94 | -13 | -16.94 |

Slot 0 (Band 2), Bandwidth: 15 MHz, Modulation: TM3.1a-256QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1937.00 | ANT0 | -20.37 | -13 | -7.37 |
| | | ANT1 | -34.92 | -13 | -21.92 |
| High | 1982.50 | ANT0 | -21.72 | -13 | -8.72 |
| | | ANT1 | -34.98 | -13 | -21.98 |

Slot 0 (Band 2), Bandwidth: 20 MHz, Modulation: TM3.1a-256QAM (5G nR)

| Band Edge | Frequency (MHz) | Antenna Port | Reading (dBm) | Limit (dBm) | Margin |
|-----------|-----------------|--------------|---------------|-------------|--------|
| Low | 1940.50 | ANT0 | -20.80 | -13 | -7.8 |
| | | ANT1 | -32.90 | -13 | -19.9 |
| High | 1980.00 | ANT0 | -23.73 | -13 | -10.73 |
| | | ANT1 | -34.88 | -13 | -21.88 |

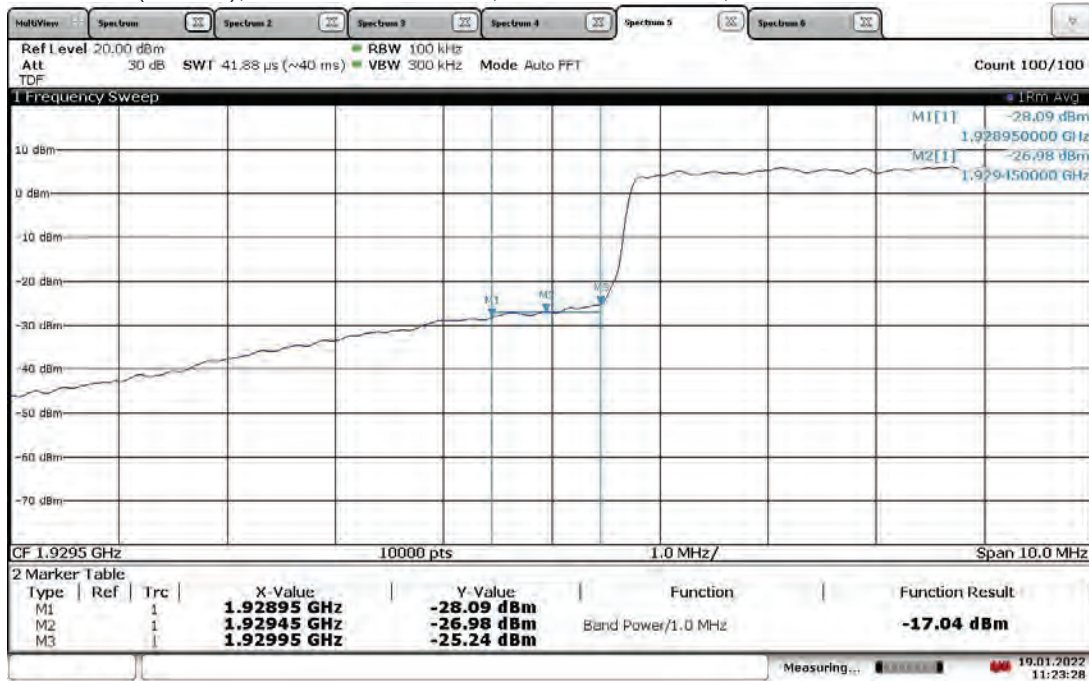
9.4

9.5 Setup Photograph:

Confidential – Photos not included in this report

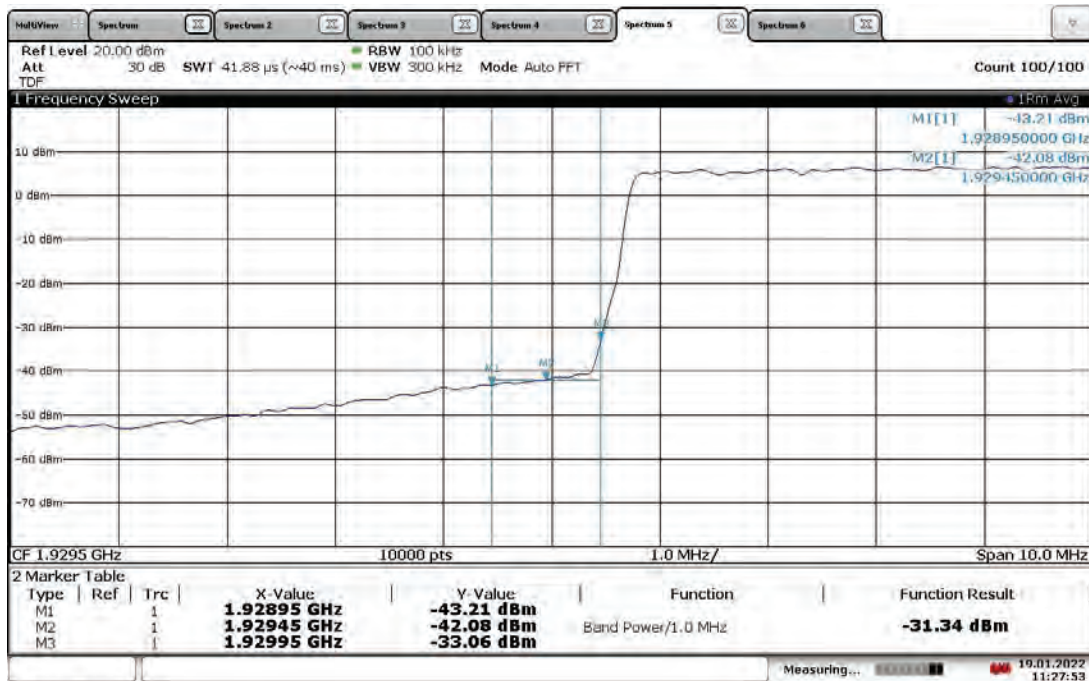
9.6 Plots/Data:

Band Edge Compliant, Lower Band Edge, 1932.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 5 MHz, Modulation: TM1.1-QPSK



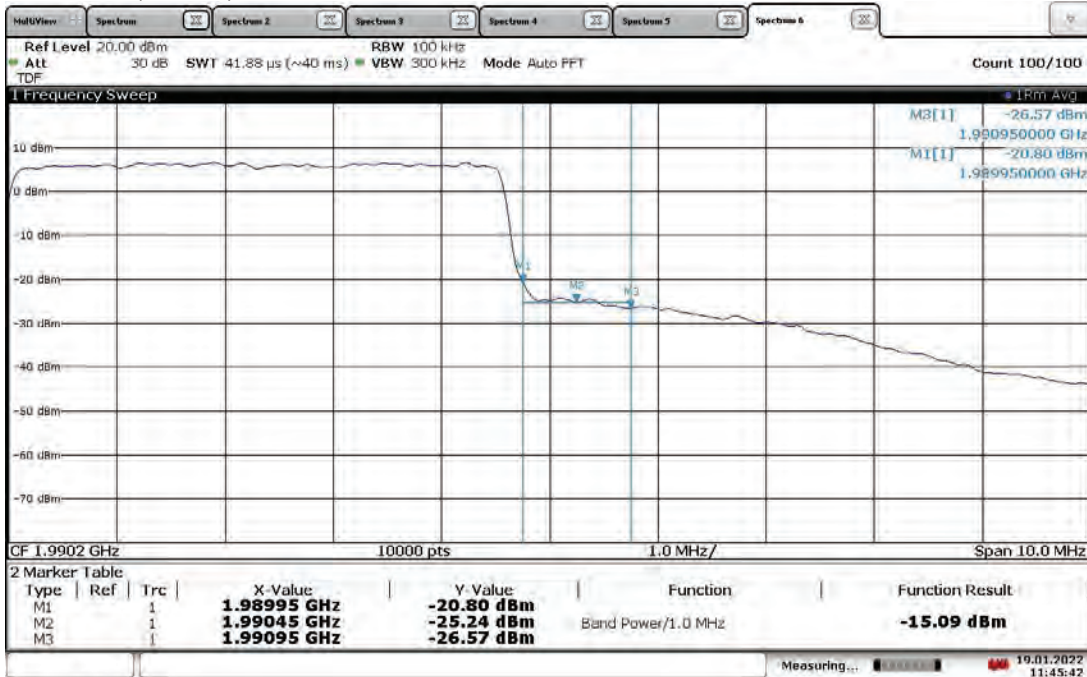
11:23:29 19.01.2022

Band Edge Compliant, Lower Band Edge, 1932.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 5 MHz, Modulation: TM1.1-QPSK



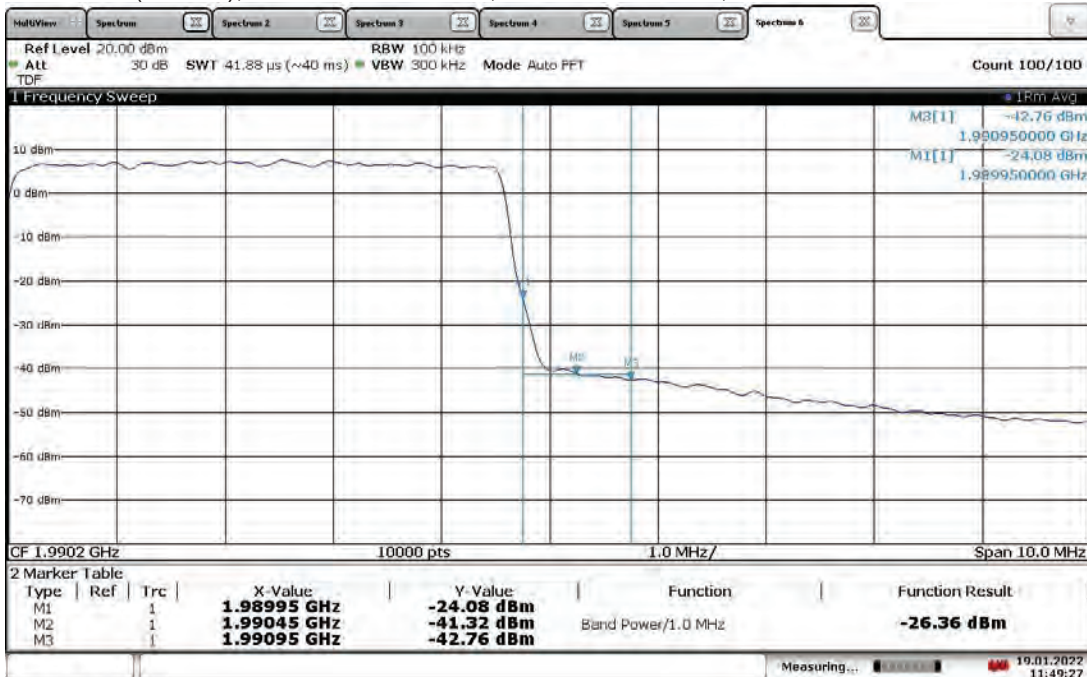
11:27:53 19.01.2022

Band Edge Compliant, Upper Band Edge, 1987.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 5 MHz, Modulation: TM1.1-QPSK



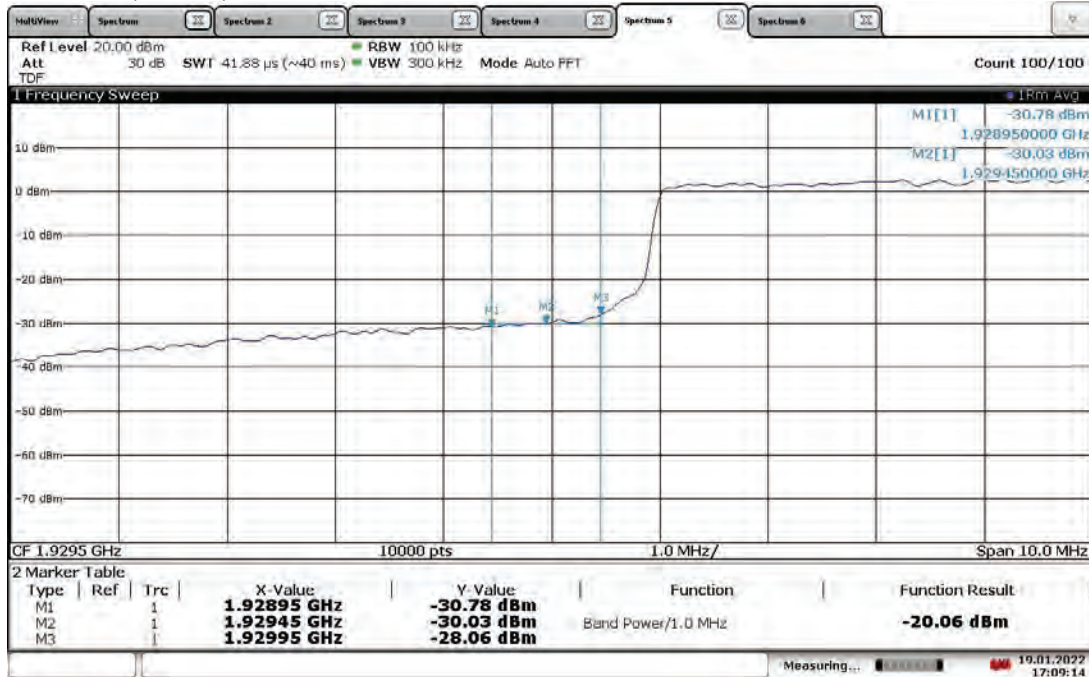
11:45:42 19.01.2022

Band Edge Compliant, Upper Band Edge, 1987.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 5 MHz, Modulation: TM1.1-QPSK



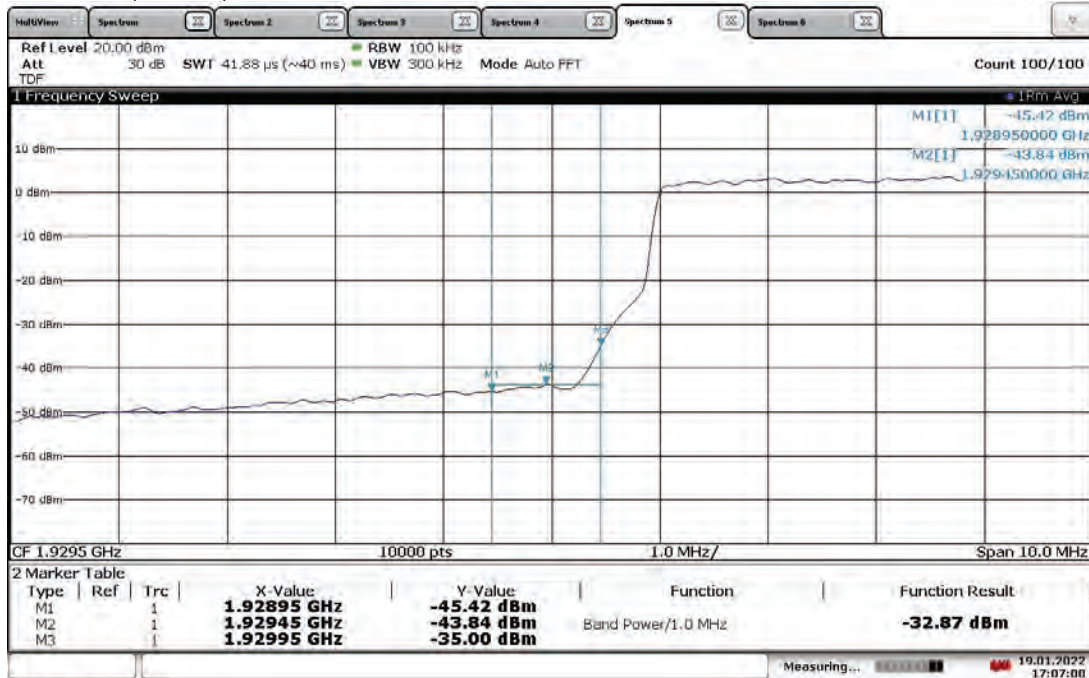
11:49:27 19.01.2022

Band Edge Compliant, Lower Band Edge, 1935 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 10 MHz, Modulation: TM1.1-QPSK



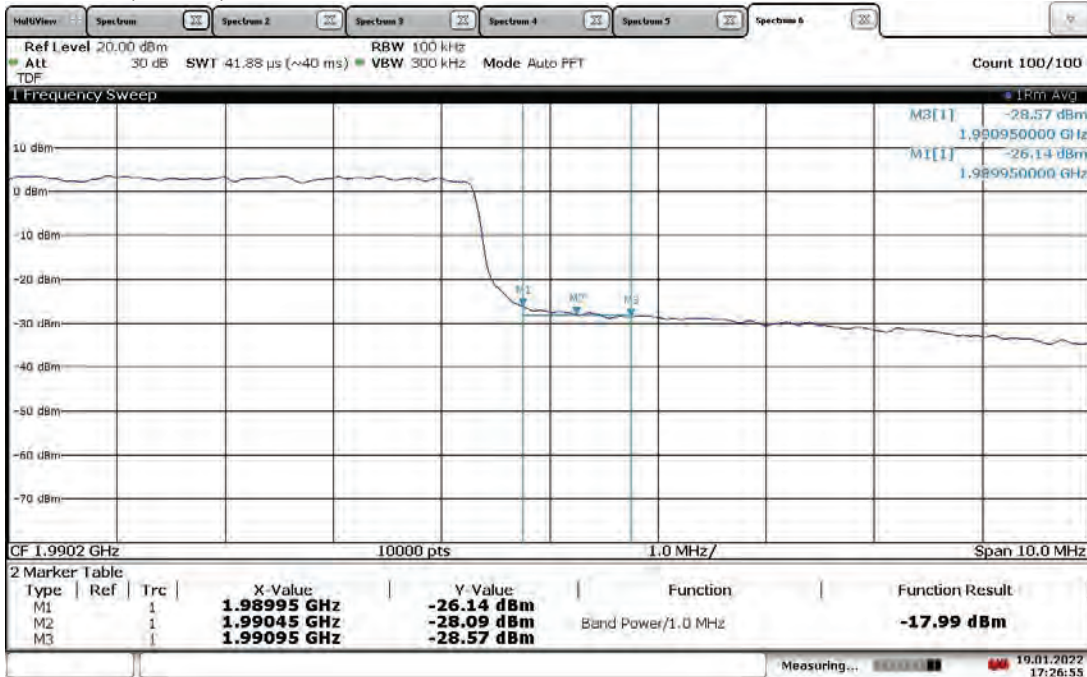
17:09:14 19.01.2022

Band Edge Compliant, Lower Band Edge, 1935 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 10 MHz, Modulation: TM1.1-QPSK



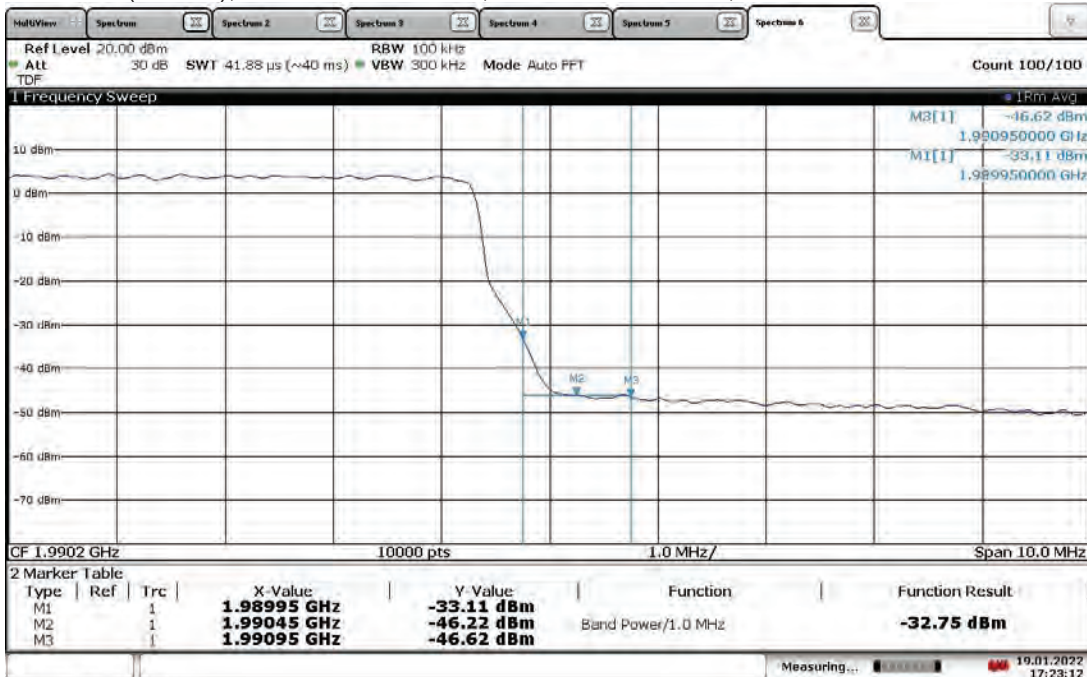
17:07:01 19.01.2022

Band Edge Compliant, Upper Edge, 1985 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 10 MHz, Modulation: TM1.1-QPSK



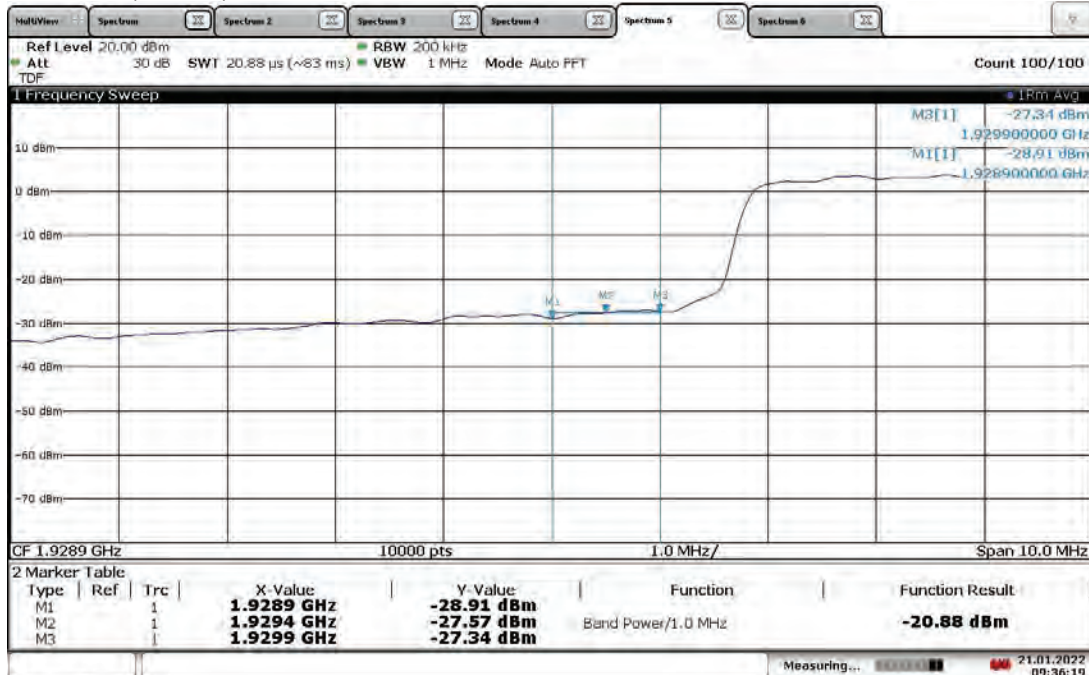
17:26:55 19.01.2022

Band Edge Compliant, Upper Edge, 1985 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 10 MHz, Modulation: TM1.1-QPSK



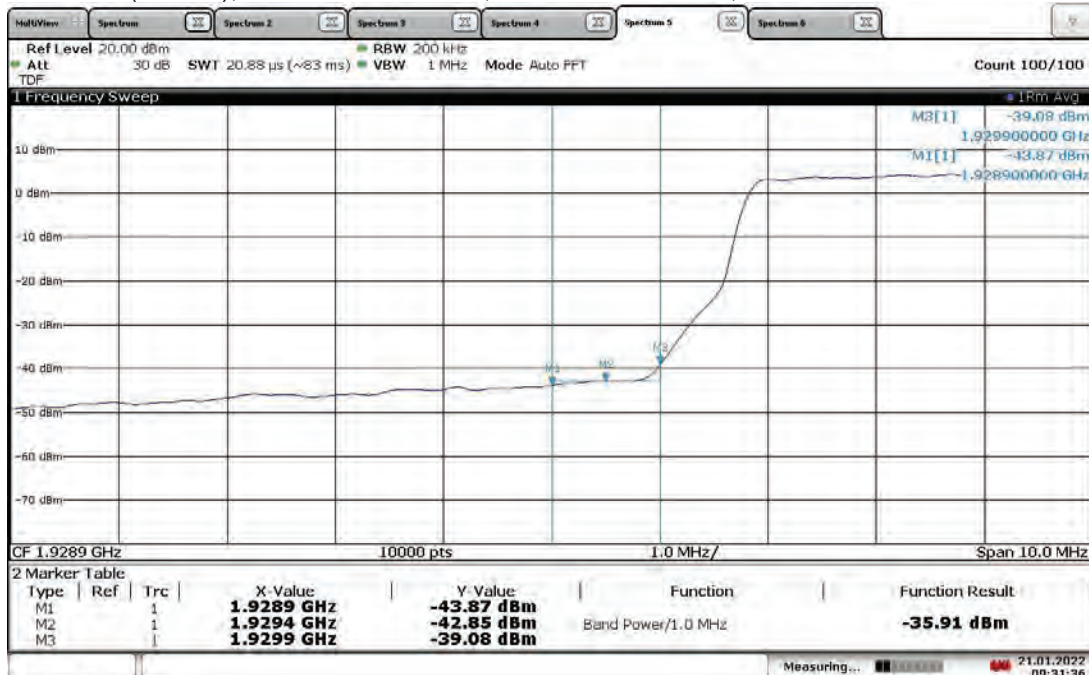
17:23:12 19.01.2022

Band Edge Compliant, Lower Band Edge, 1937.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 15 MHz, Modulation: TM1.1-QPSK



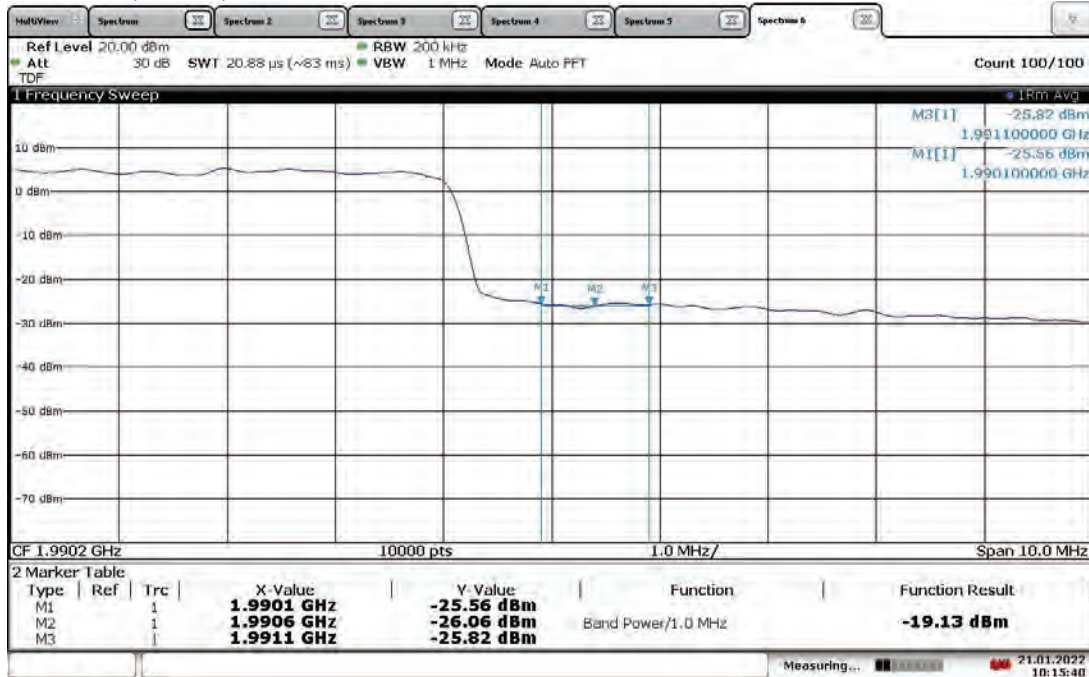
09:36:19 21.01.2022

Band Edge Compliant, Lower Band Edge, 1937.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 15 MHz, Modulation: TM1.1-QPSK



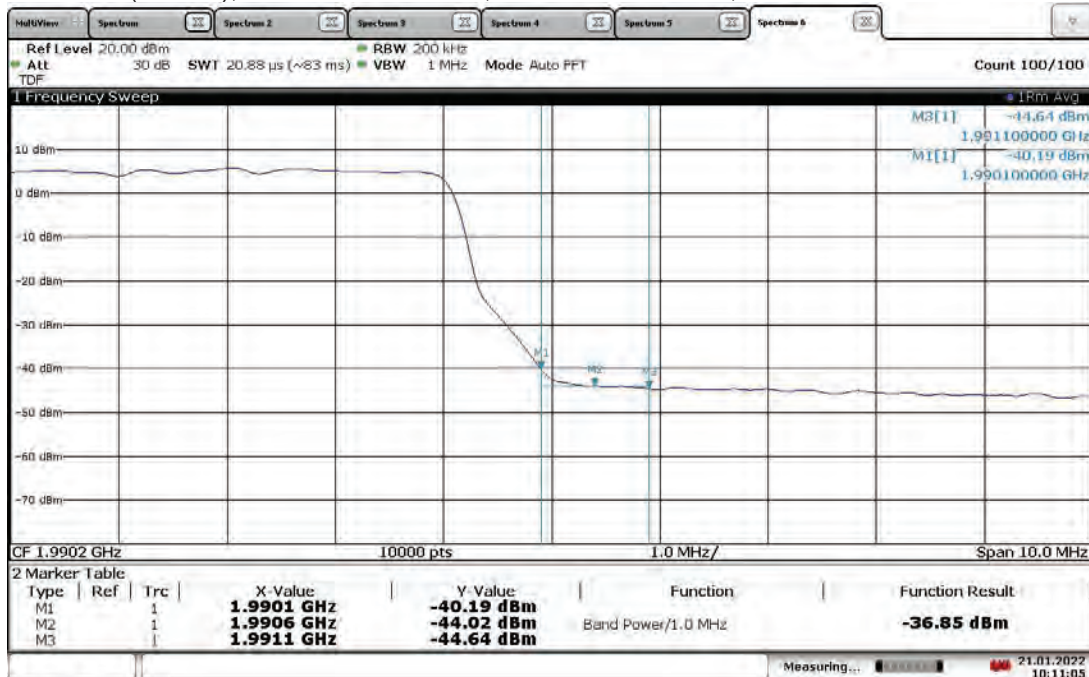
09:31:38 21.01.2022

Band Edge Compliant, Upper Band Edge, 1982.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 15 MHz, Modulation: TM1.1-QPSK



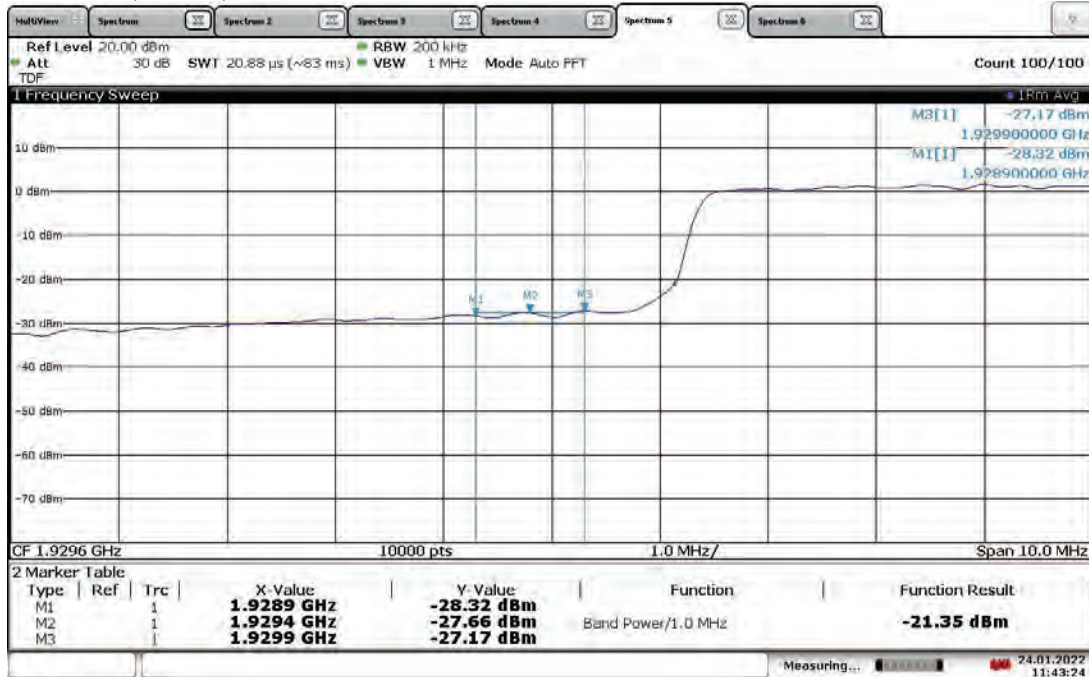
10:15:40 21.01.2022

Band Edge Compliant, Upper Band Edge, 1982.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 15 MHz, Modulation: TM1.1-QPSK



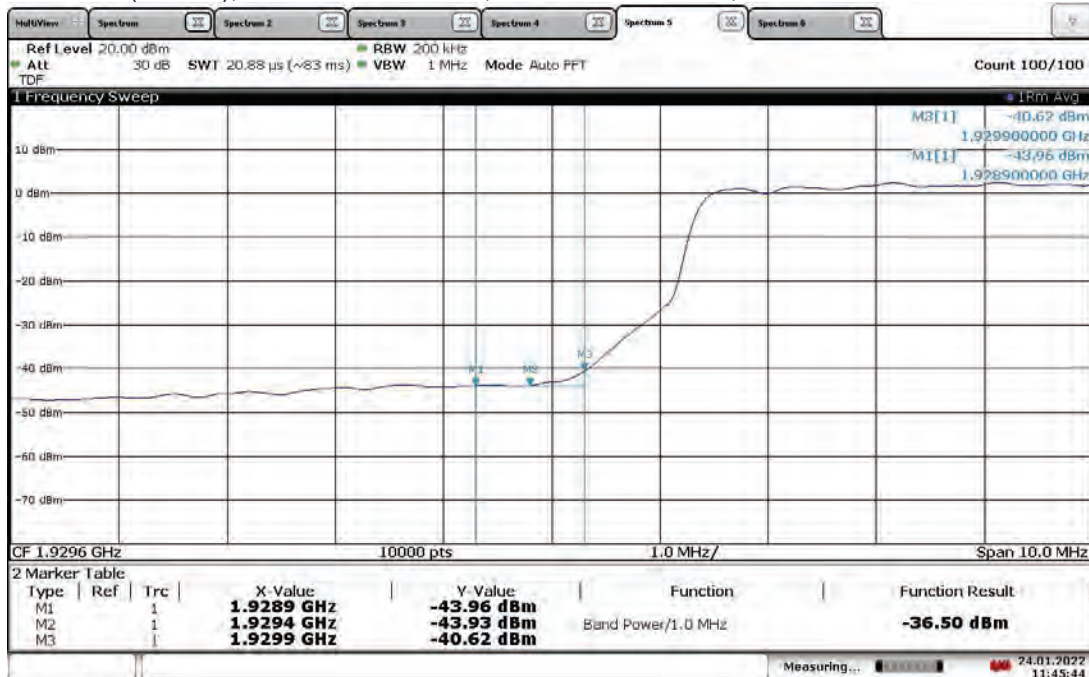
10:11:05 21.01.2022

Band Edge Compliant, Lower Band Edge, 1940 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 20 MHz, Modulation: TM1.1-QPSK



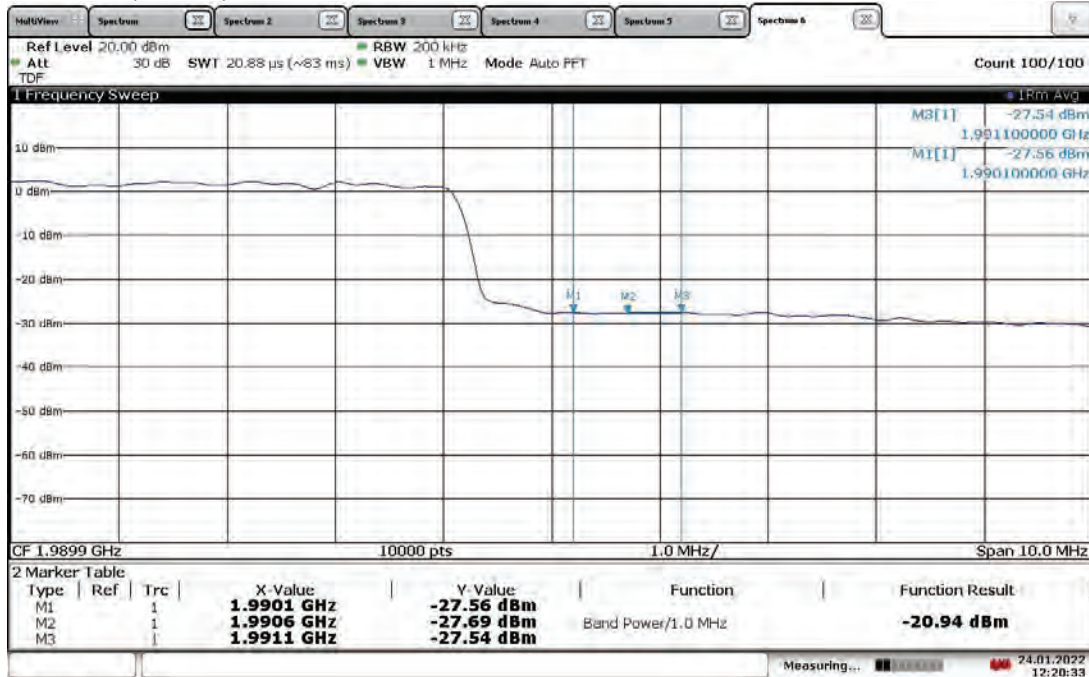
11:43:25 24.01.2022

Band Edge Compliant, Lower Band Edge, 1940 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 20 MHz, Modulation: TM1.1-QPSK



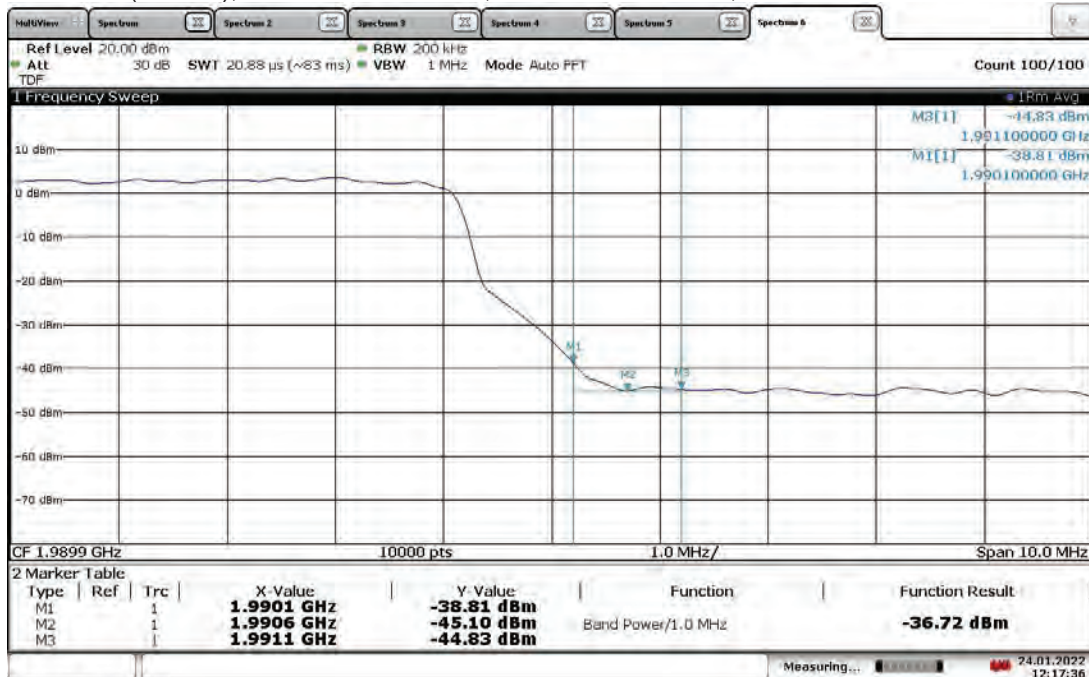
11:45:44 24.01.2022

Band Edge Compliant, Upper Band Edge, 1980 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 20 MHz, Modulation: TM1.1-QPSK



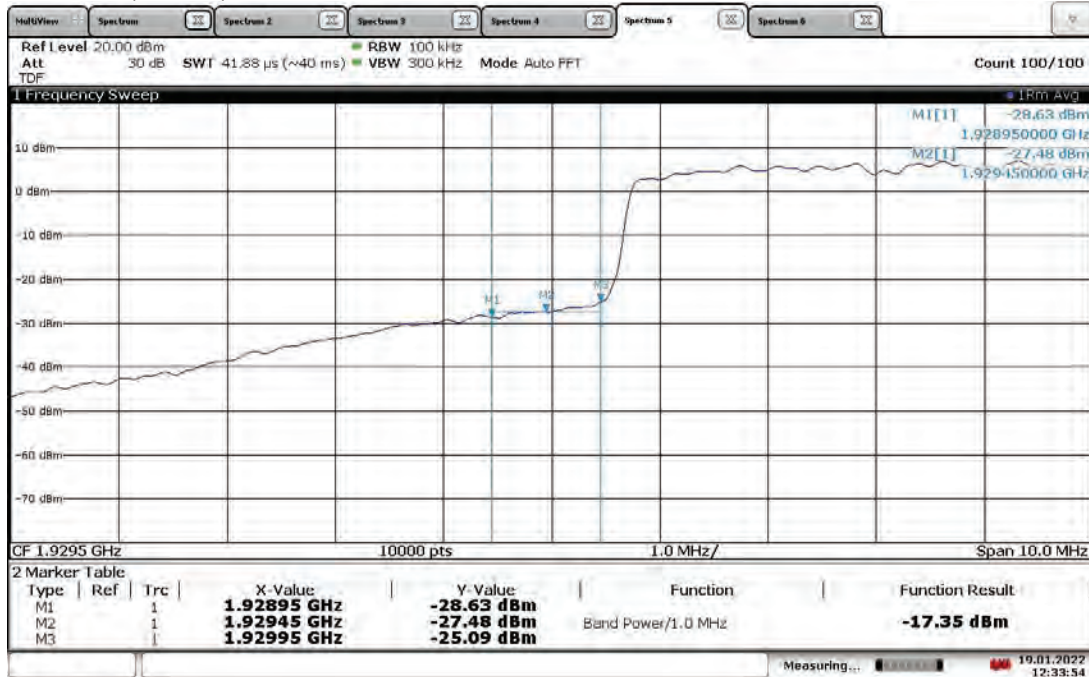
12:20:33 24.01.2022

Band Edge Compliant, Upper Band Edge, 1980 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 20 MHz, Modulation: TM1.1-QPSK



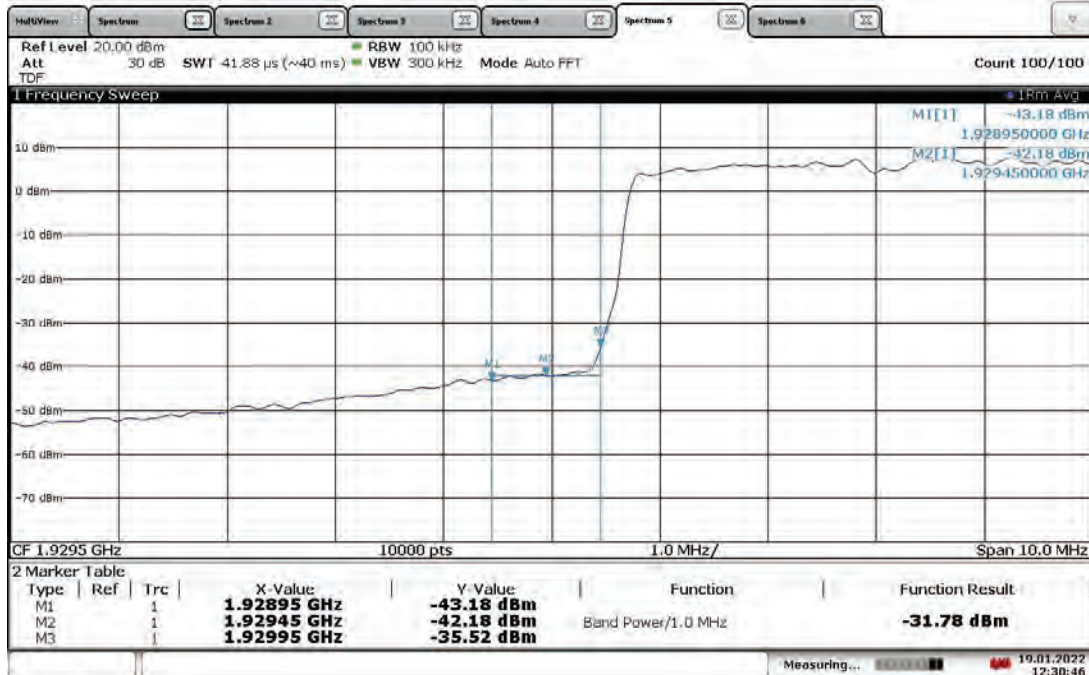
12:17:36 24.01.2022

Band Edge Compliant, Lower Band Edge, 1932.5MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 5 MHz, Modulation: TM3.2-16QAM



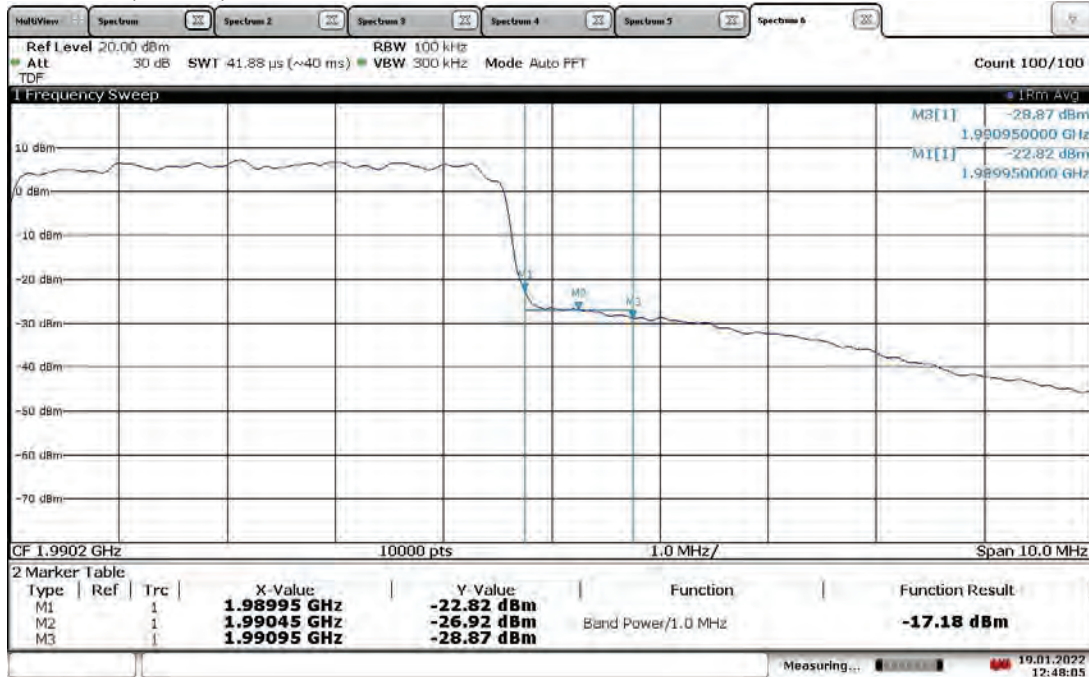
12:33:55 19.01.2022

Band Edge Compliant, Lower Band Edge, 1932.5MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 5 MHz, Modulation: TM3.2-16QAM



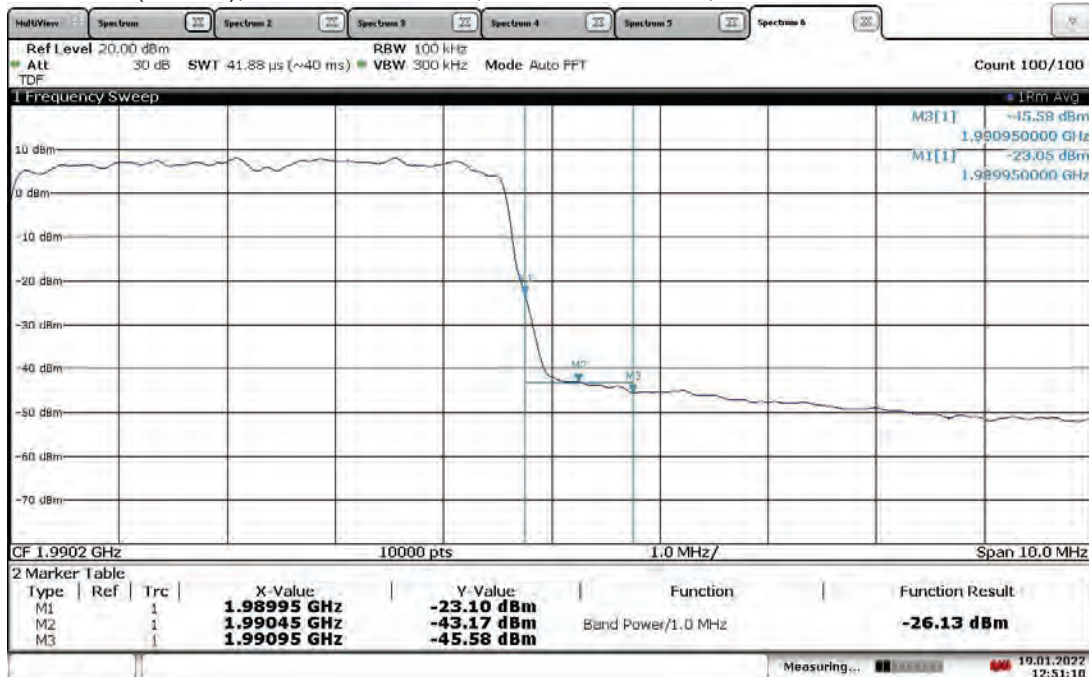
12:30:46 19.01.2022

Band Edge Compliant, Upper Band Edge, 1987.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 5 MHz, Modulation: TM3.2-16QAM



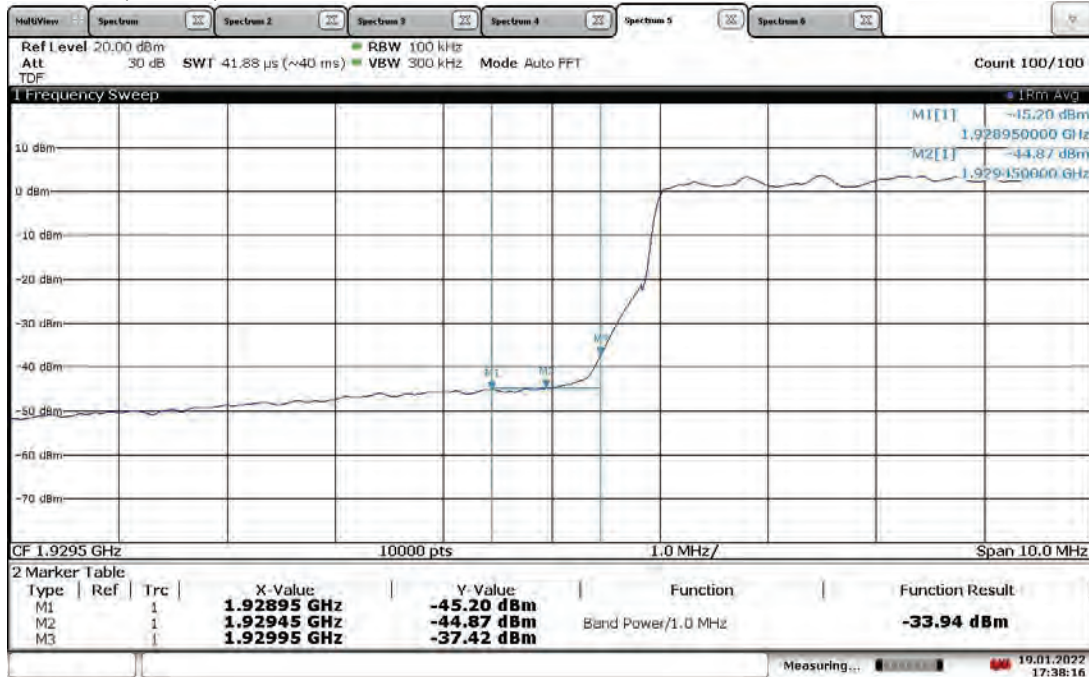
12:48:05 19.01.2022

Band Edge Compliant, Upper Band Edge, 1987.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT, Bandwidth: 5 MHz, Modulation: TM3.2-16QAM



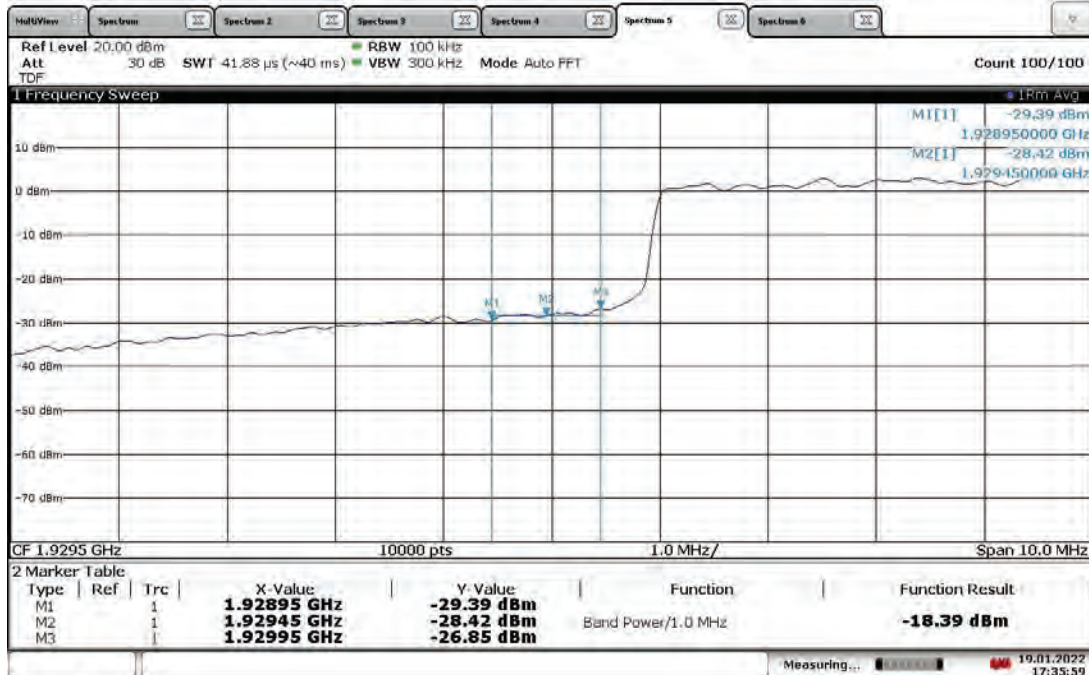
12:51:10 19.01.2022

Band Edge Compliant, Lower Band Edge, 1935 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 10 MHz, Modulation: TM3.2-16QAM



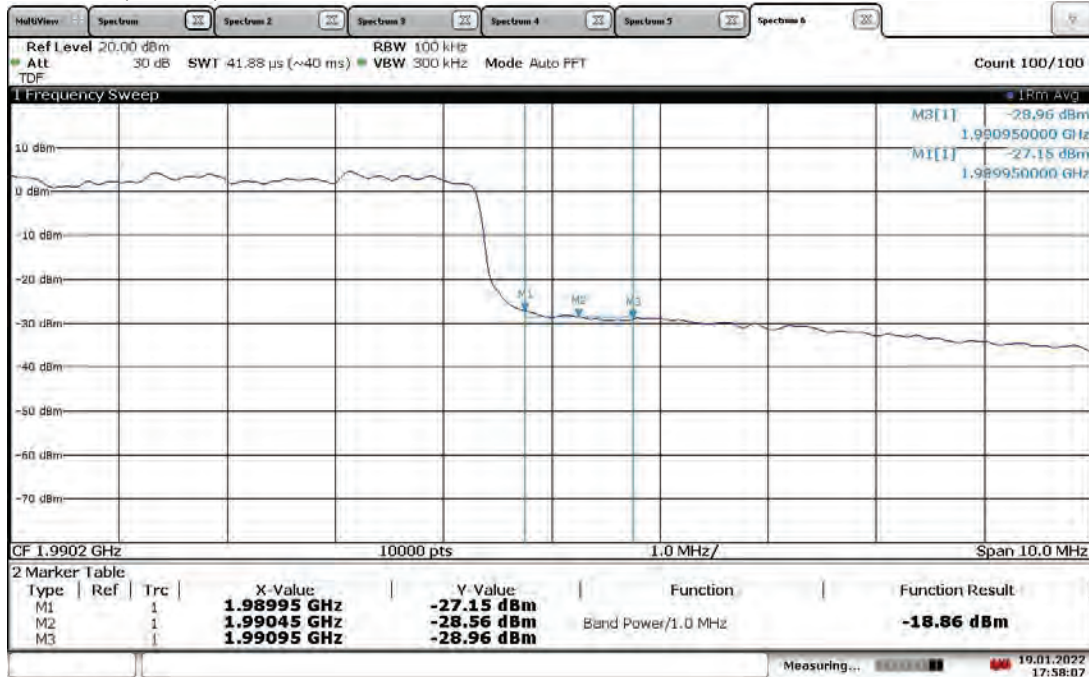
17:38:16 19.01.2022

Band Edge Compliant, Lower Band Edge, 1935 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 10 MHz, Modulation: TM3.2-16QAM



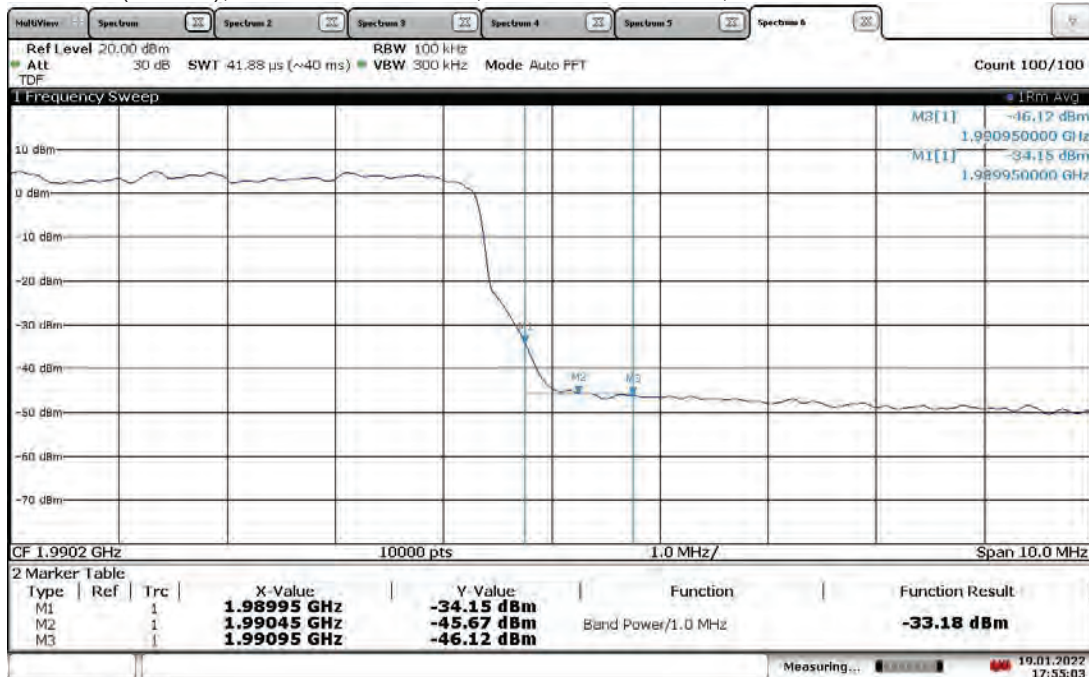
17:36:00 19.01.2022

Band Edge Compliant, Upper Band Edge, 1985 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 10 MHz, Modulation: TM3.2-16QAM



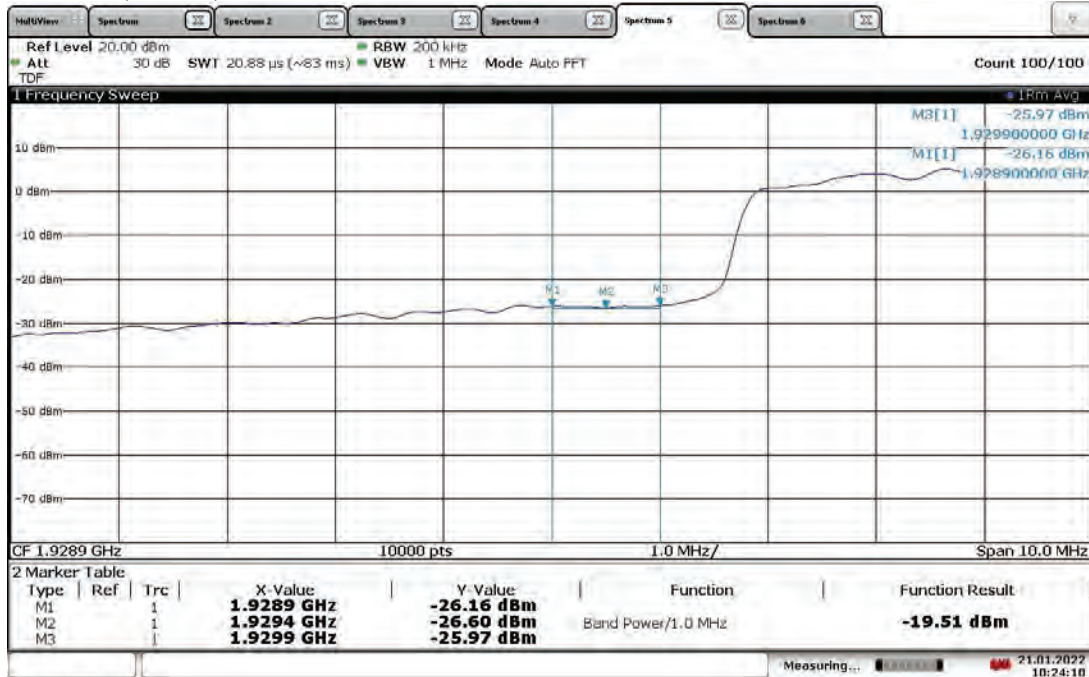
17:58:07 19.01.2022

Band Edge Compliant, Upper Band Edge, 1985 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 10 MHz, Modulation: TM3.2-16QAM



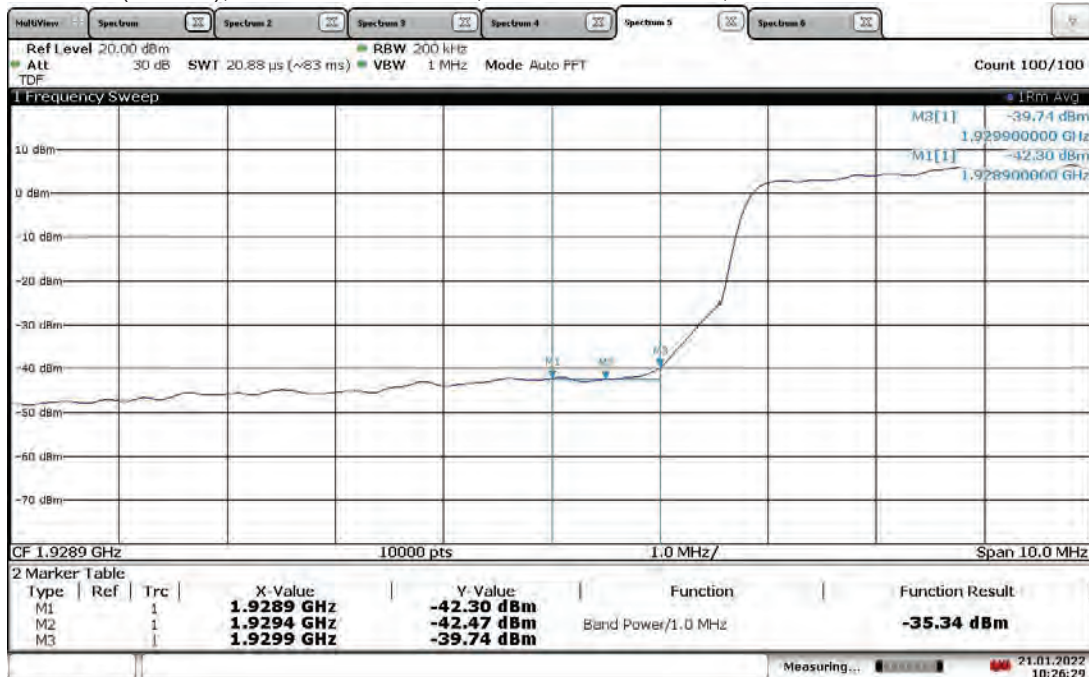
17:55:03 19.01.2022

Band Edge Compliant, Lower Band Edge, 1937.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 15 MHz, Modulation: TM3.2-16QAM



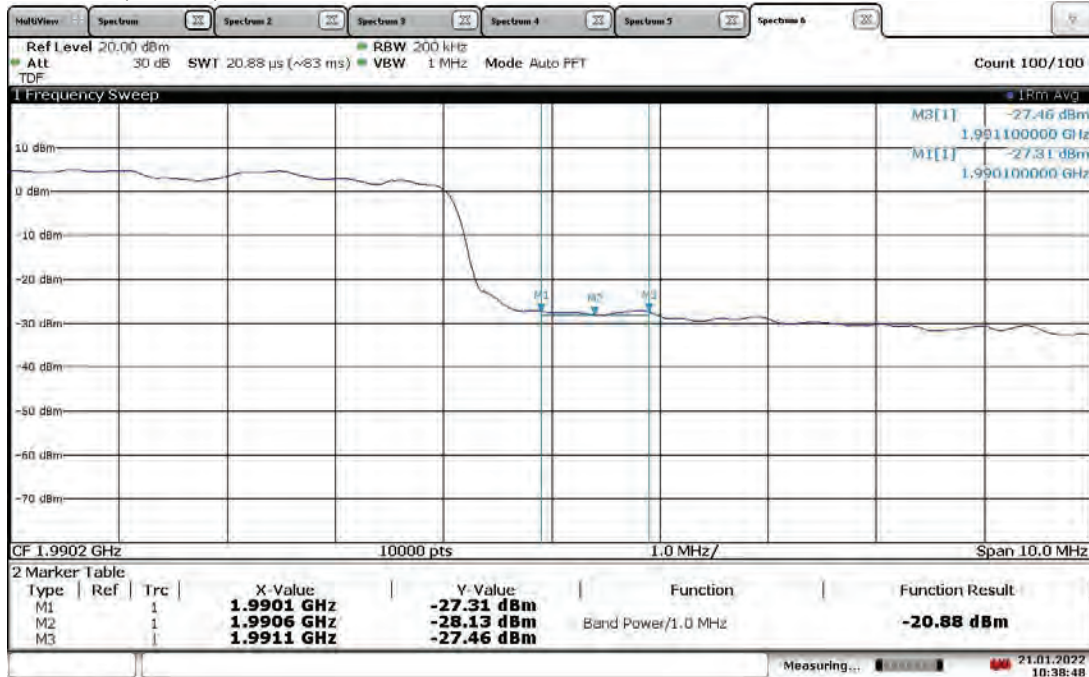
10:24:10 21.01.2022

Band Edge Compliant, Lower Band Edge, 1937.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 15 MHz, Modulation: TM3.2-16QAM



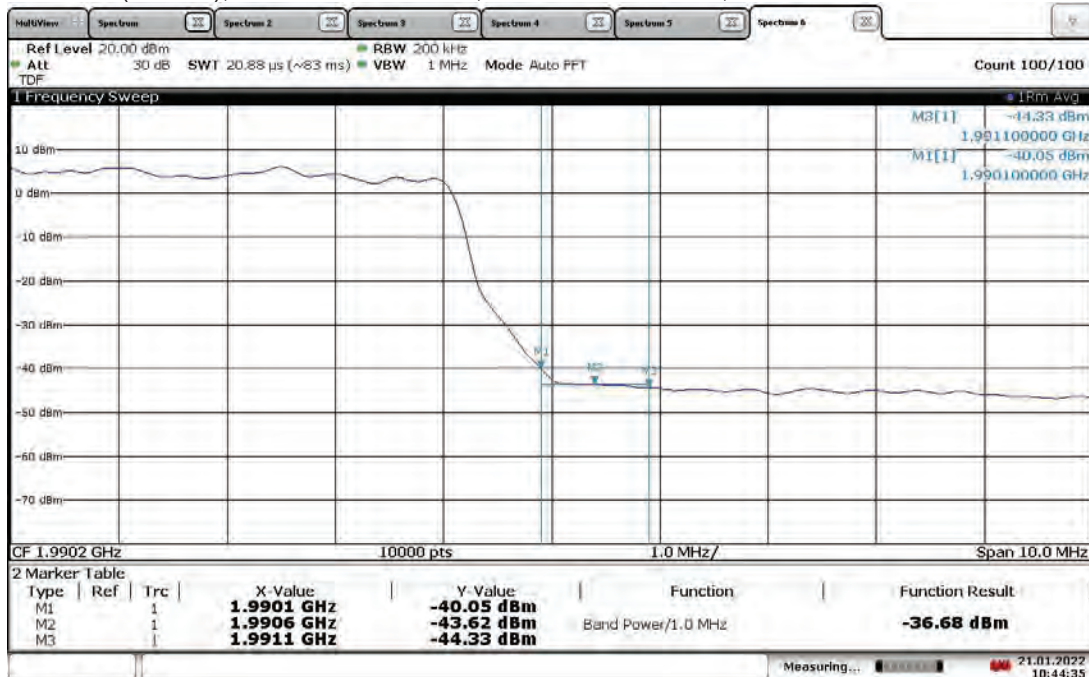
10:26:30 21.01.2022

Band Edge Compliant, Upper Band Edge, 1982.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 15 MHz, Modulation: TM3.2-16QAM



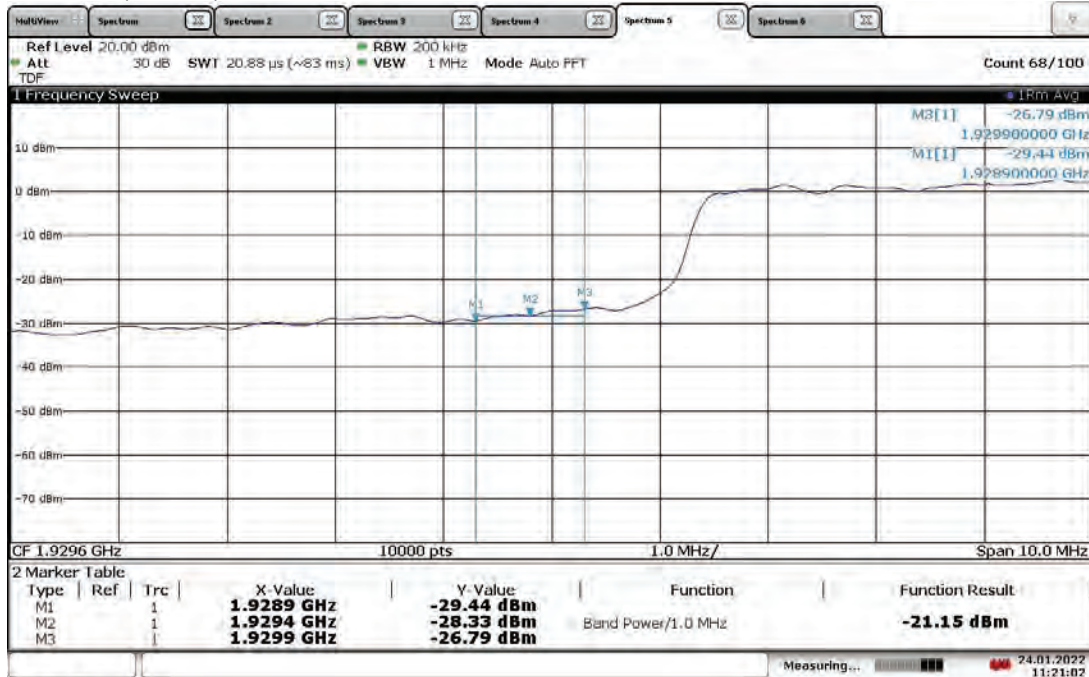
10:38:49 21.01.2022

Band Edge Compliant, Upper Band Edge, 1982.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 15 MHz, Modulation: TM3.2-16QAM



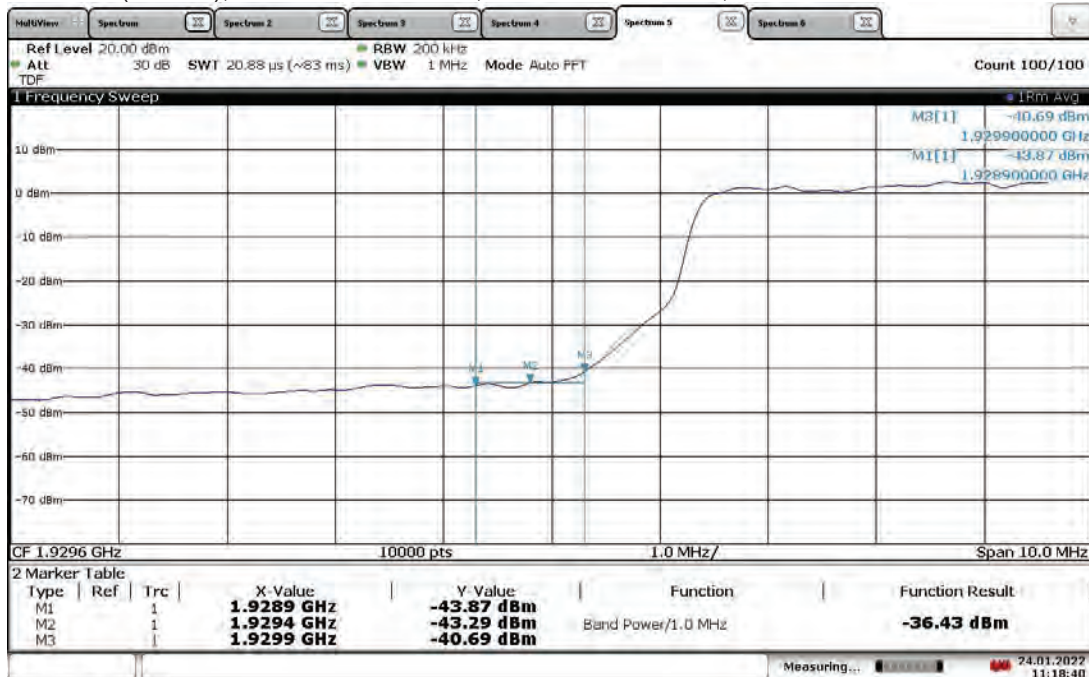
10:44:35 21.01.2022

Band Edge Compliant, Lower Band Edge, 1940 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 20 MHz, Modulation: TM3.2-16QAM



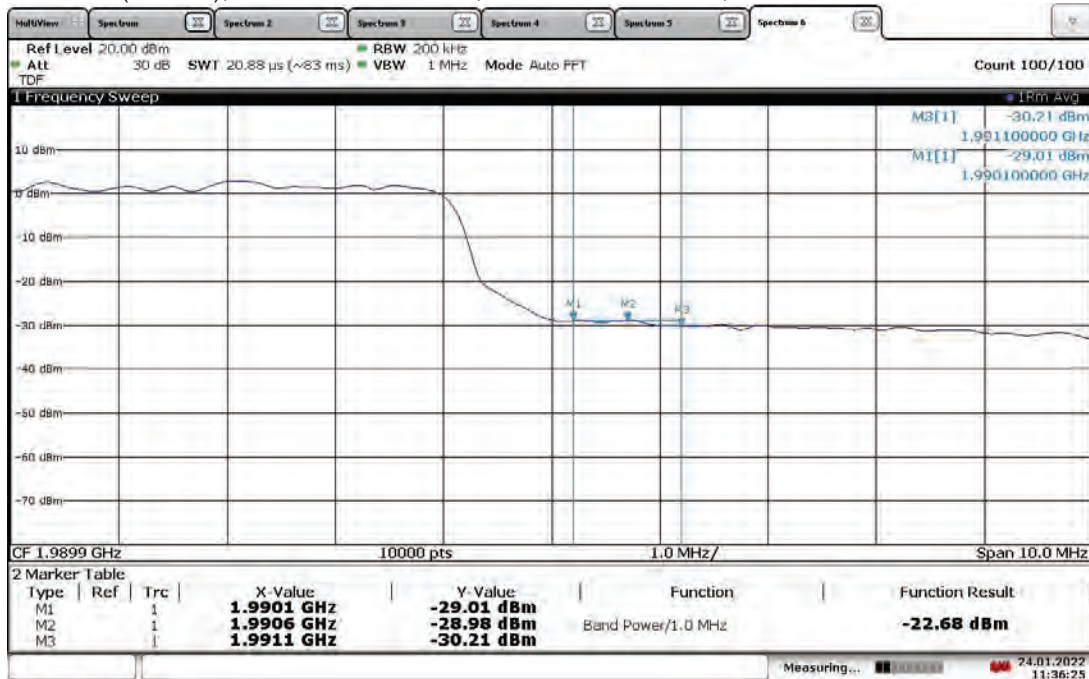
11:21:02 24.01.2022

Band Edge Compliant, Lower Band Edge, 1940 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 20 MHz, Modulation: TM3.2-16QAM



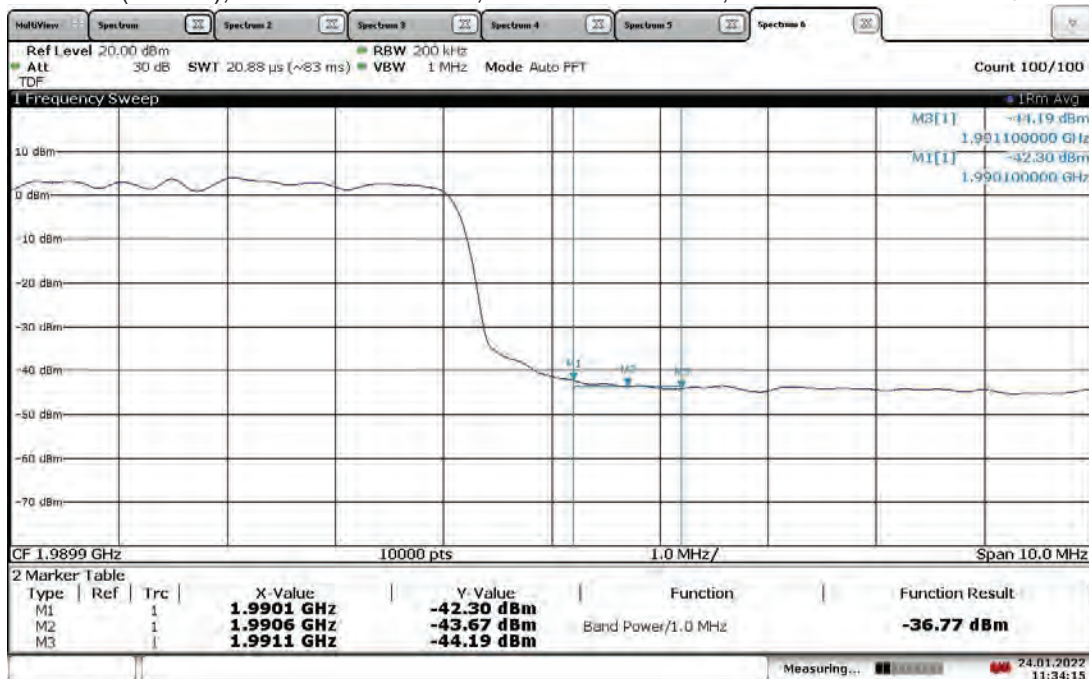
11:18:41 24.01.2022

Band Edge Compliant, Upper Band Edge, 1980 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 20 MHz, Modulation: TM3.2-16QAM



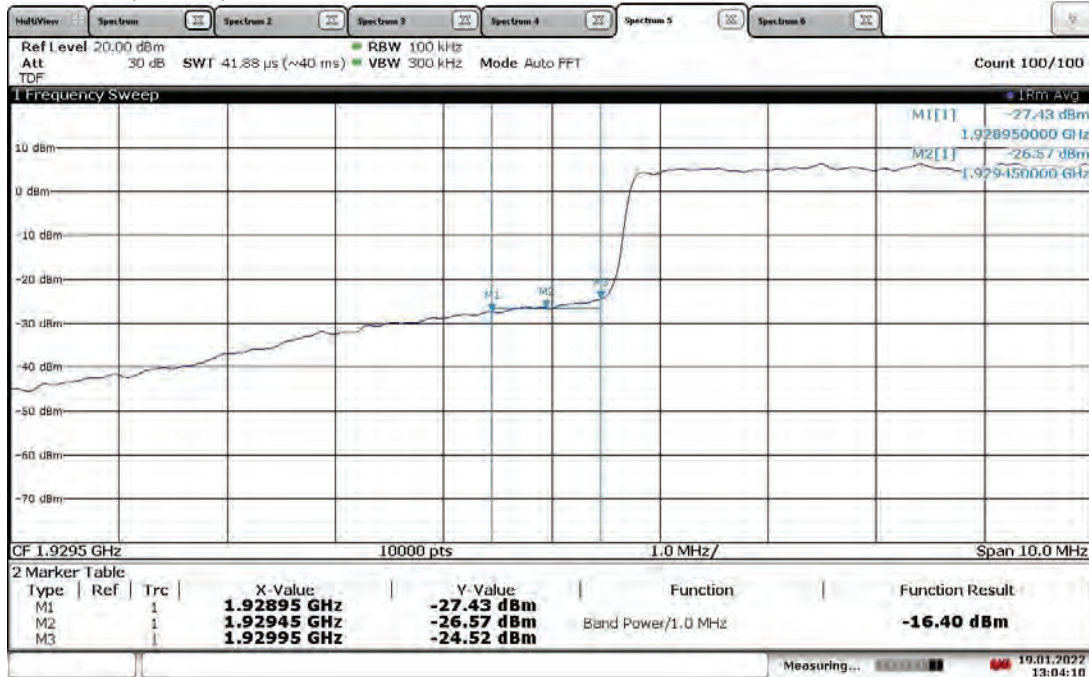
11:36:25 24.01.2022

Band Edge Compliant, Upper Band Edge, 1980 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 20 MHz, Modulation: TM3.2-16QAM



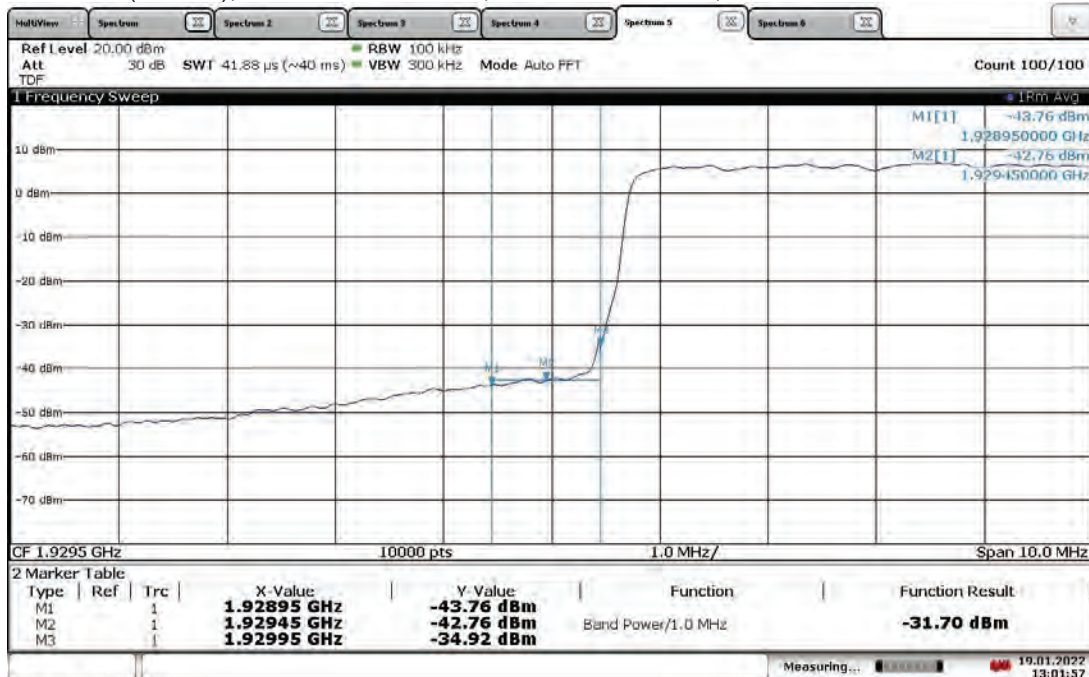
11:34:16 24.01.2022

Band Edge Compliant, Lower Band Edge, 1932.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 5 MHz, Modulation: TM3.1-64QAM



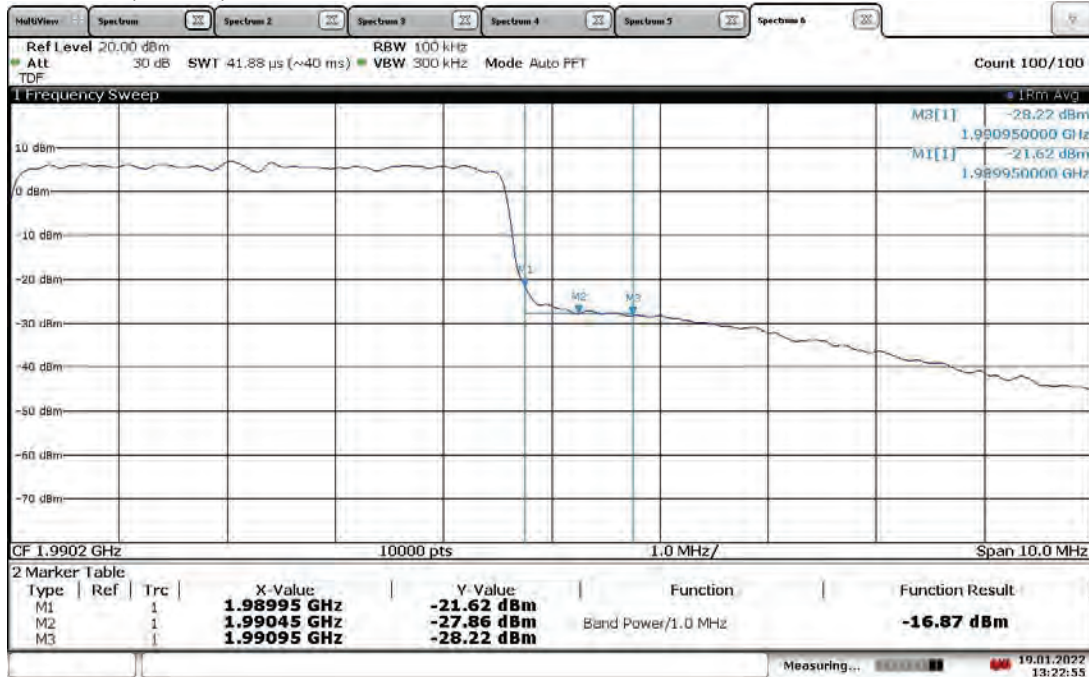
13:04:10 19.01.2022

Band Edge Compliant, Lower Band Edge, 1932.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 5 MHz, Modulation: TM3.1-64QAM



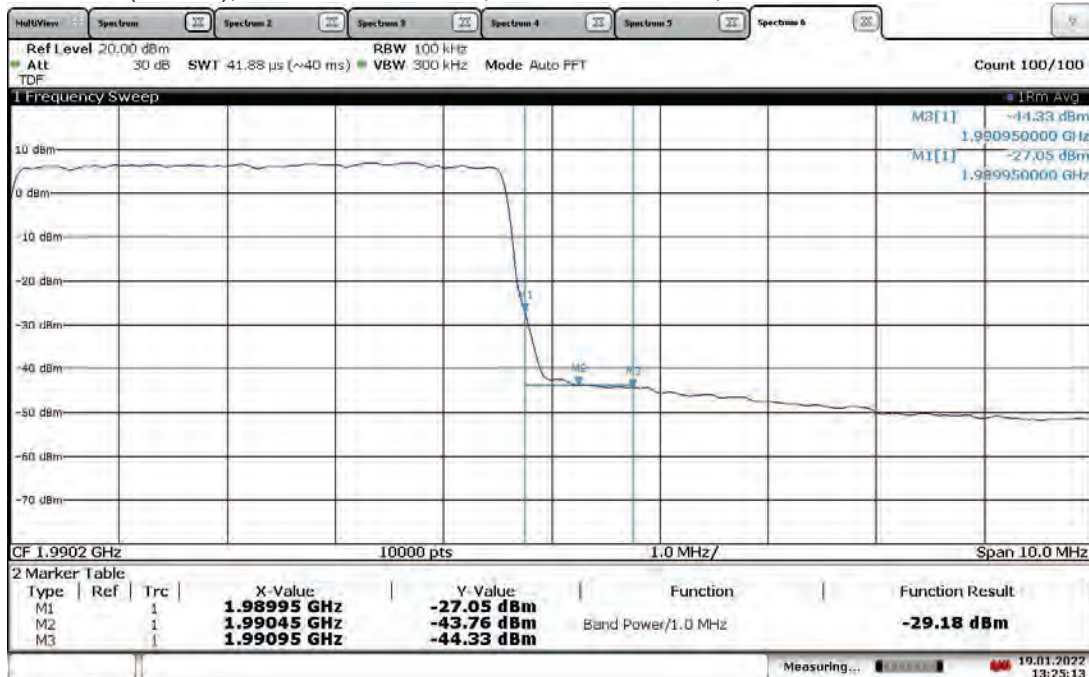
13:01:58 19.01.2022

Band Edge Compliant, Upper Band Edge, 1987.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 5 MHz, Modulation: TM3.1-64QAM



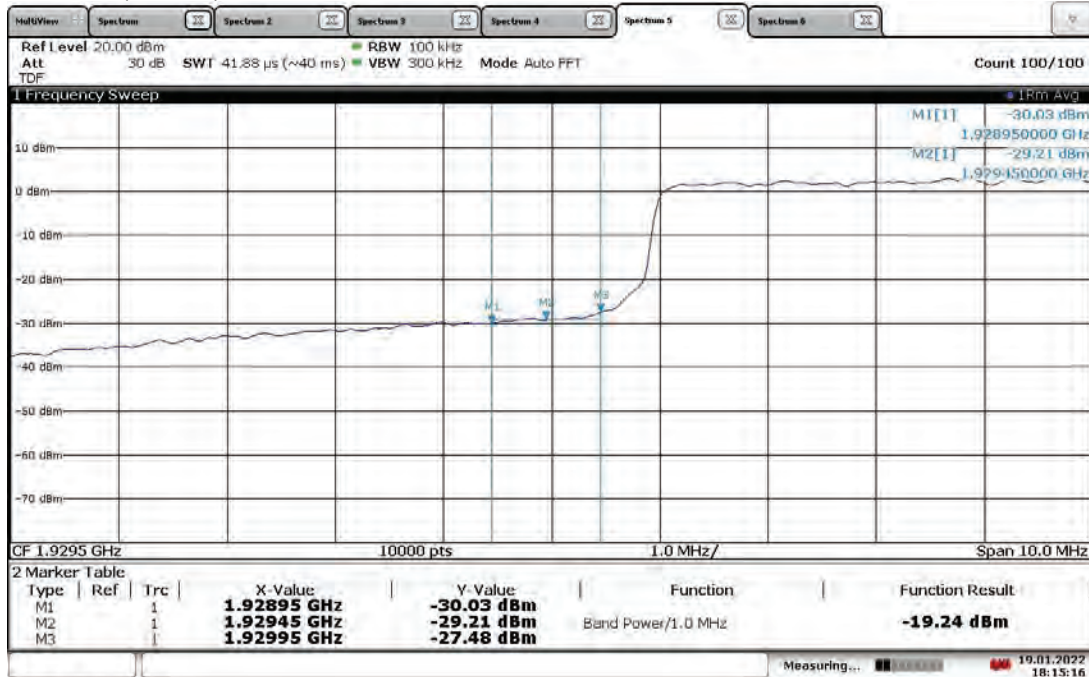
13:22:56 19.01.2022

Band Edge Compliant, Upper Band Edge, 1987.5 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 5 MHz, Modulation: TM3.1-64QAM



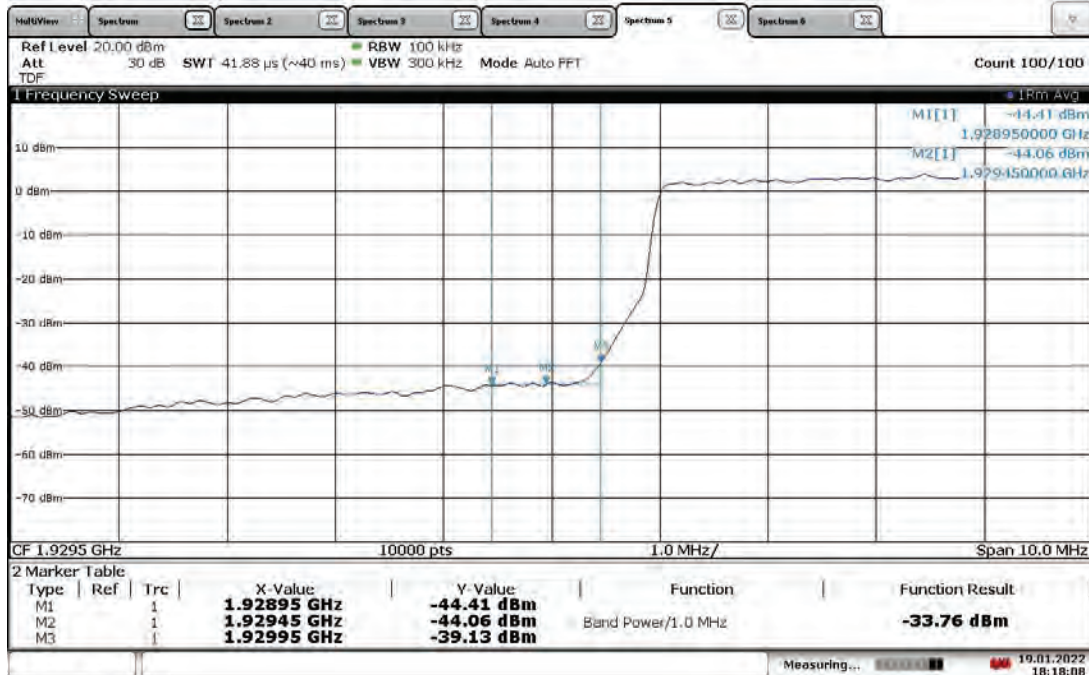
13:25:13 19.01.2022

Band Edge Compliant, Lower Band Edge, 1935 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 10 MHz, Modulation: TM3.1-64QAM



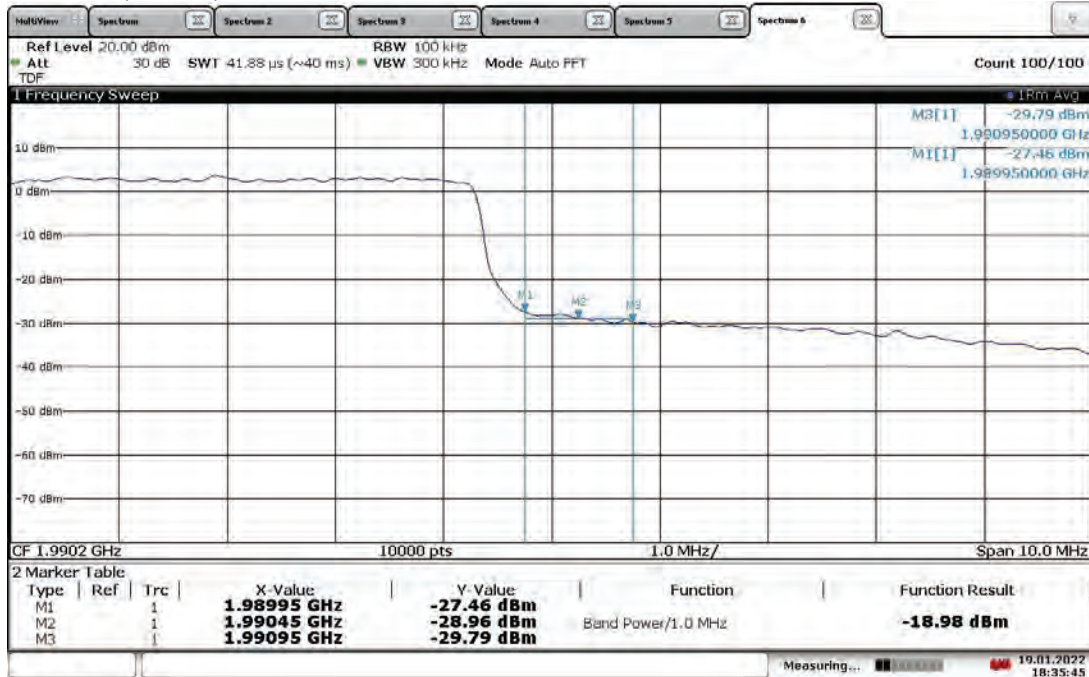
18:15:17 19.01.2022

Band Edge Compliant, Lower Band Edge, 1935 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 10 MHz, Modulation: TM3.1-64QAM



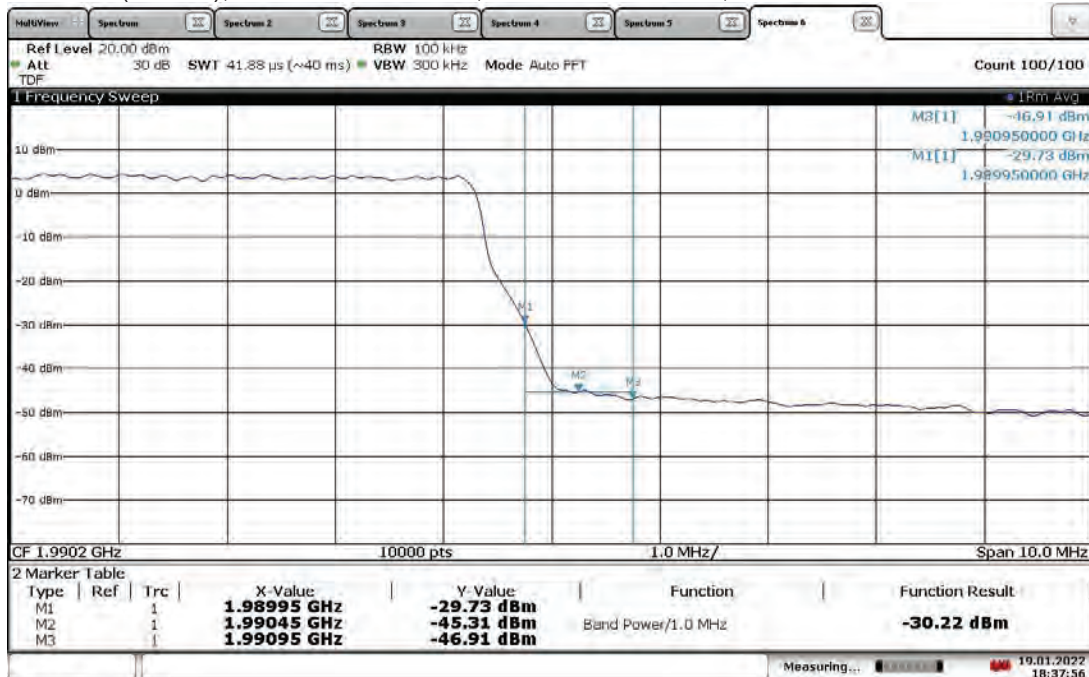
18:18:08 19.01.2022

Band Edge Compliant, Upper Band Edge, 1985 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT0, Bandwidth: 10 MHz, Modulation: TM3.1-64QAM



18:35:45 19.01.2022

Band Edge Compliant, Upper Band Edge, 1985 MHz (4G LTE)
Slot 0 (Band 2), Antenna Port: ANT1, Bandwidth: 10 MHz, Modulation: TM3.1-64QAM



18:37:56 19.01.2022