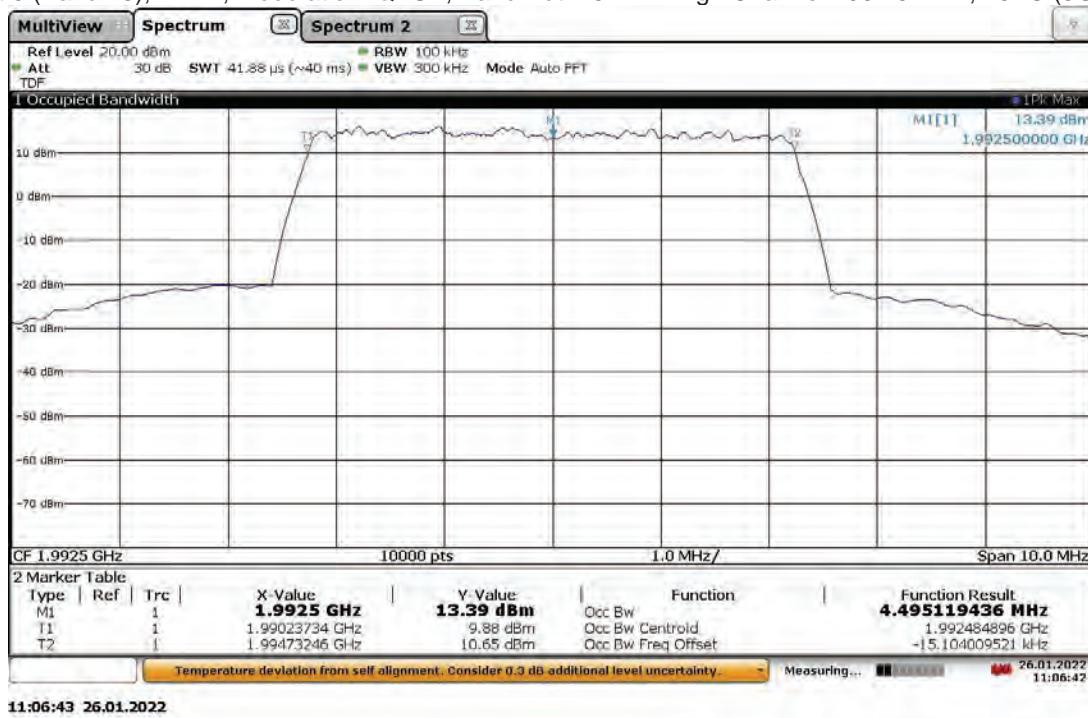
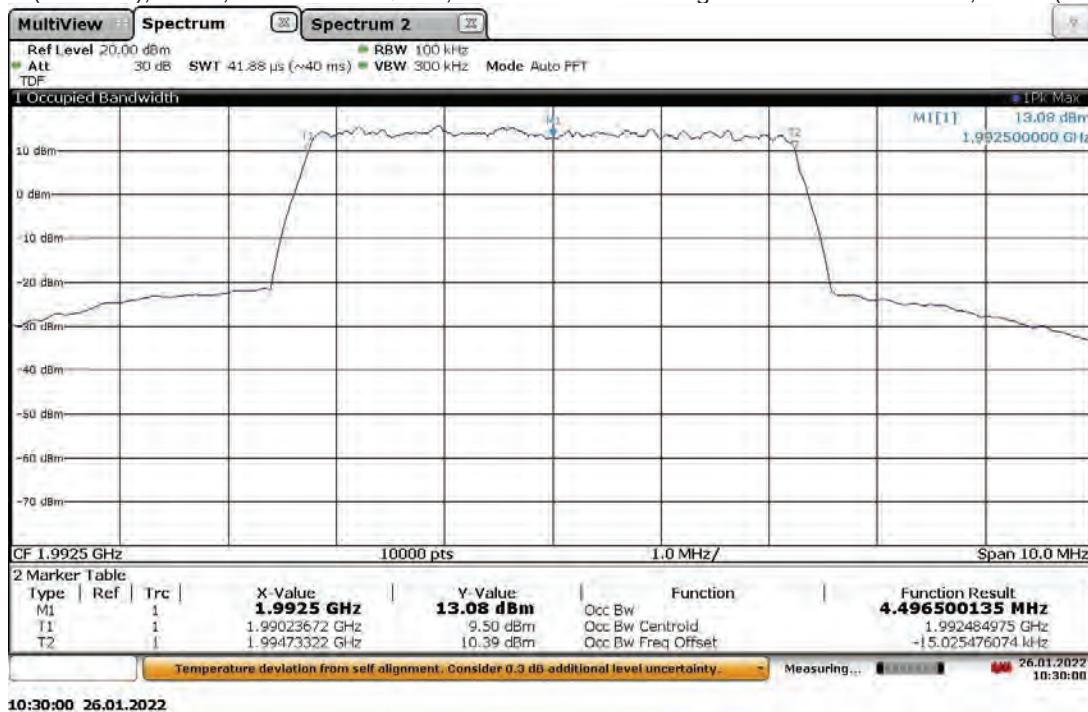


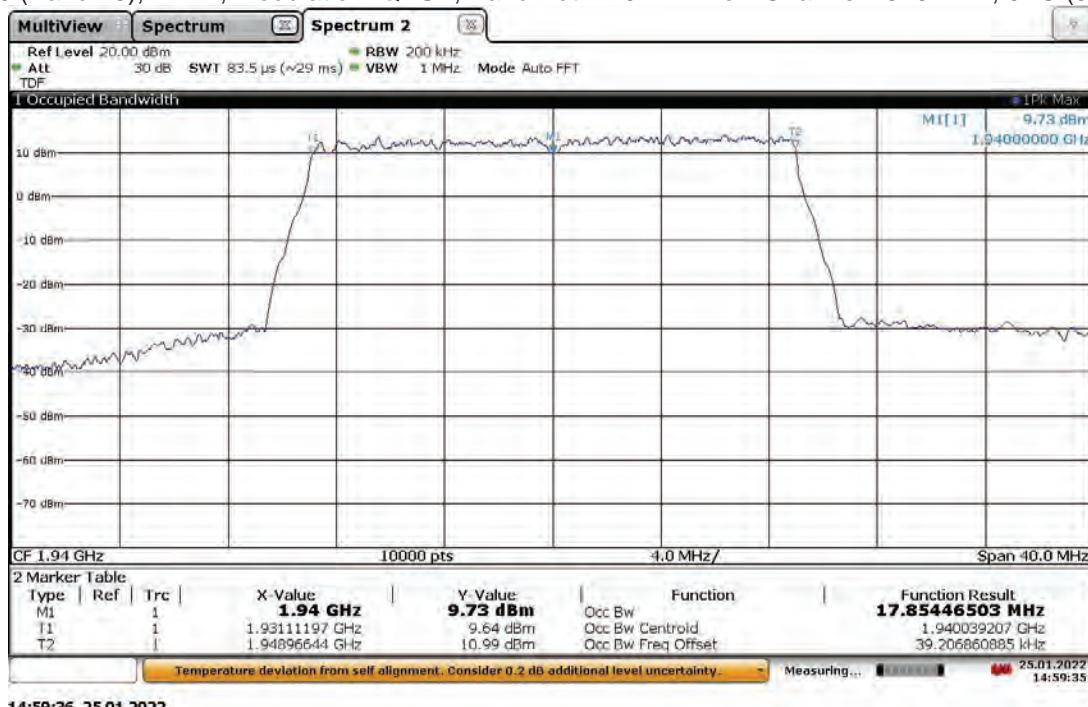
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz High Channel 1992.5 MHz, 40 °C (5G nR)



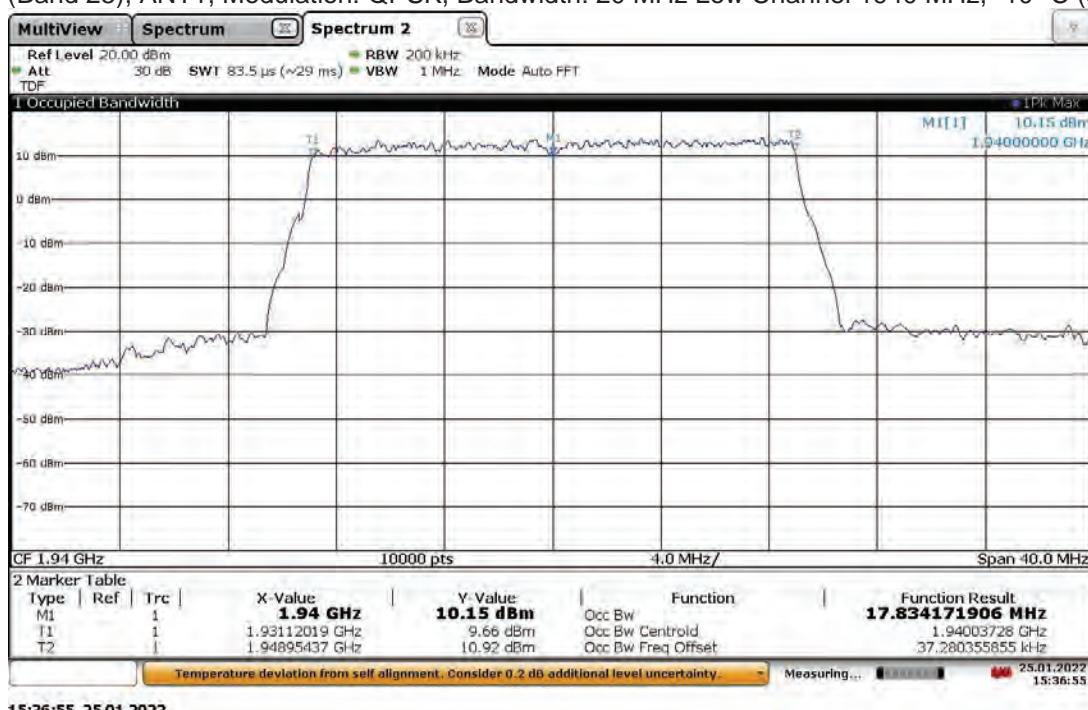
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz High Channel 1992.5 MHz, 50 °C (5G nR)



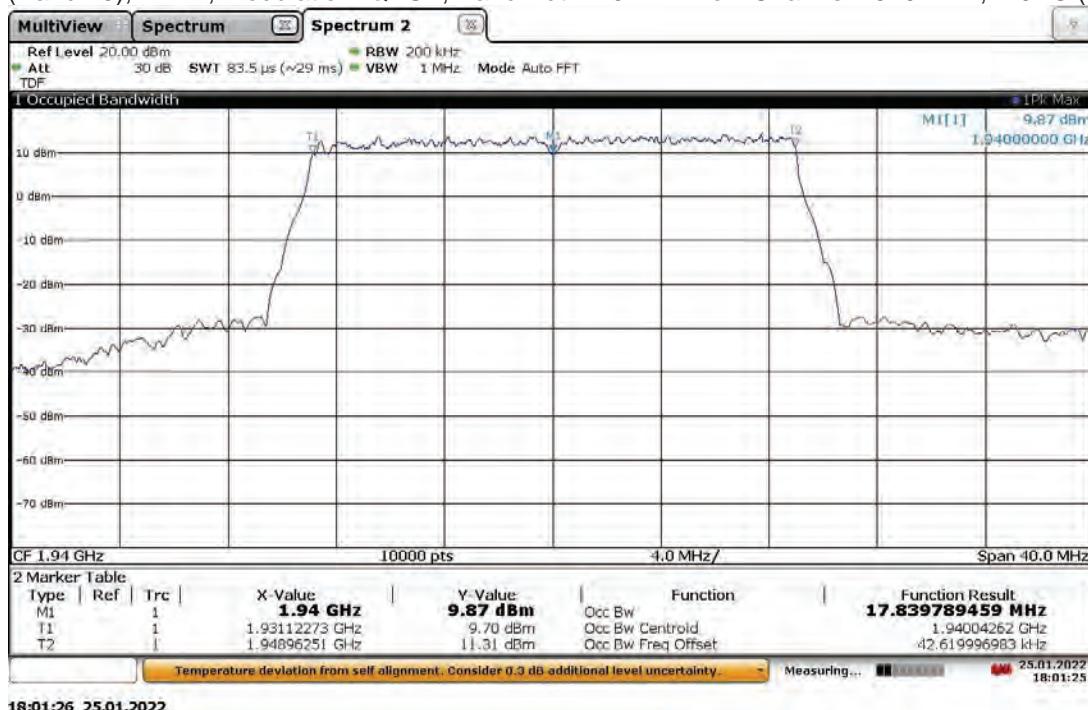
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, 0 °C (5G nR)



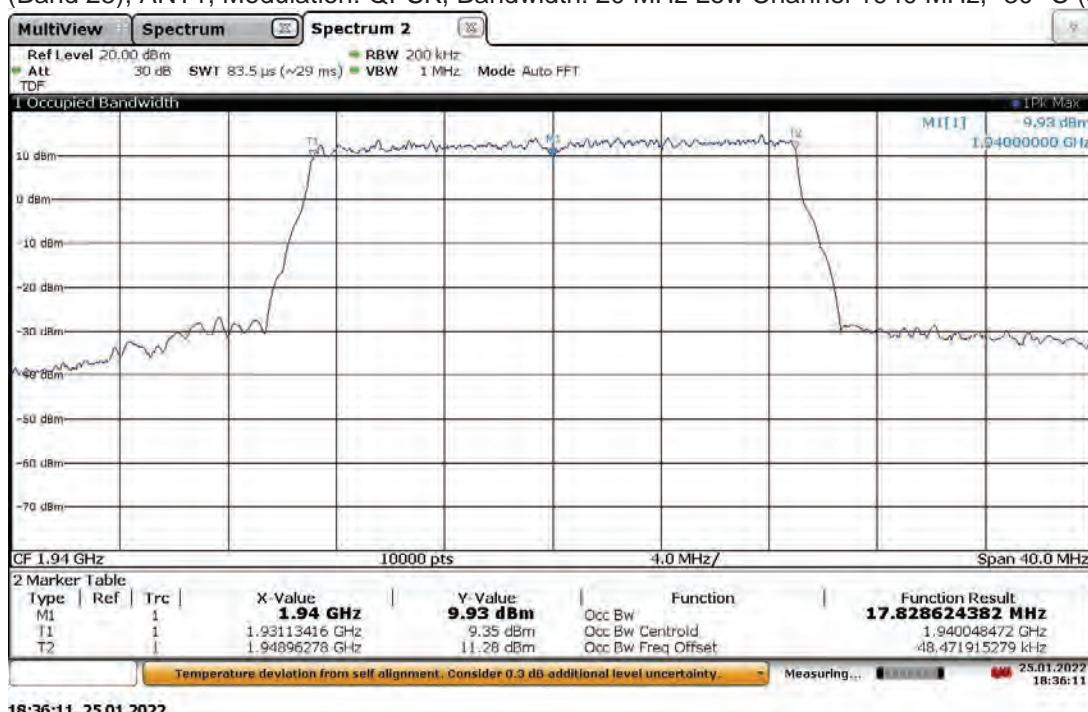
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, -10 °C (5G nR)



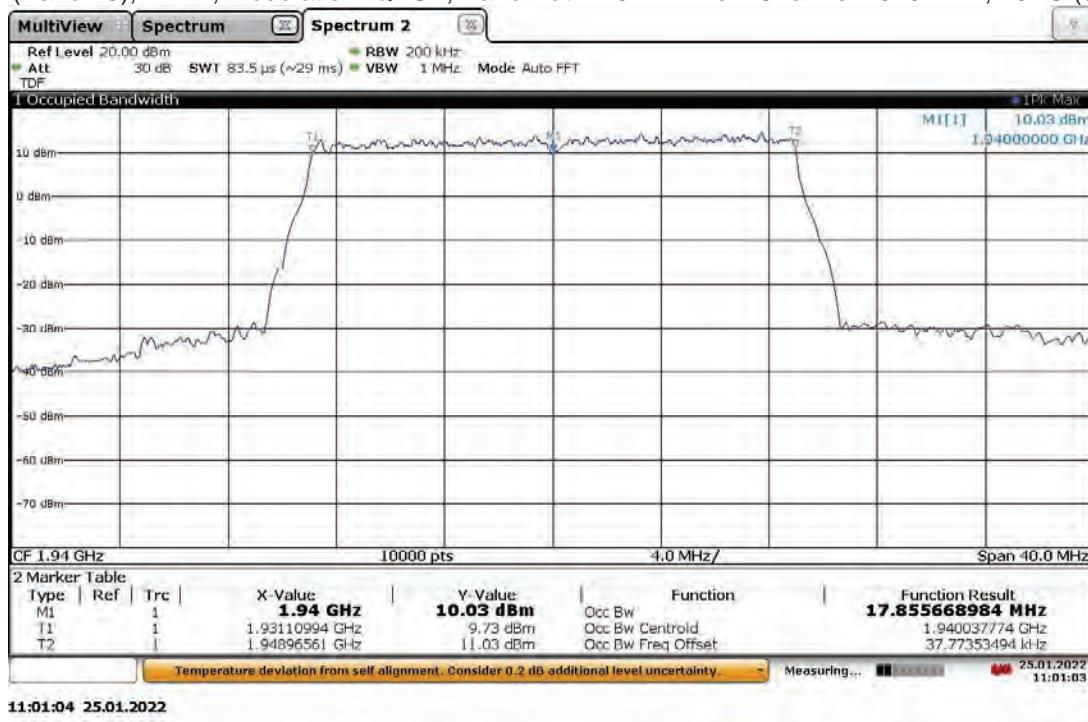
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, -20 °C (5G nR)



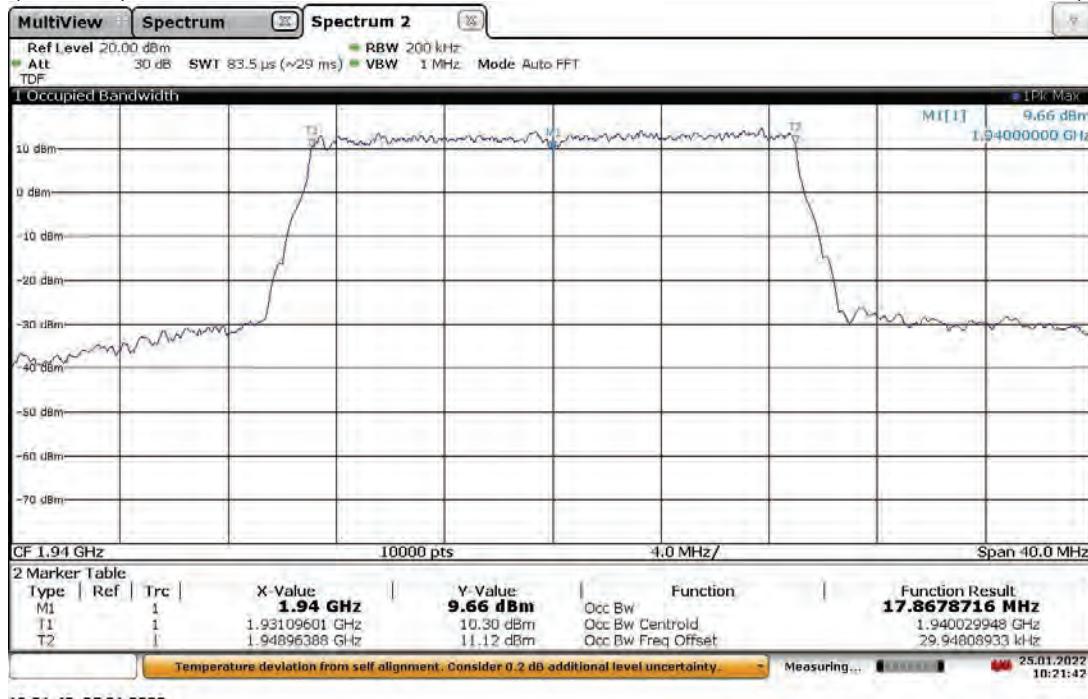
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, -30 °C (5G nR)



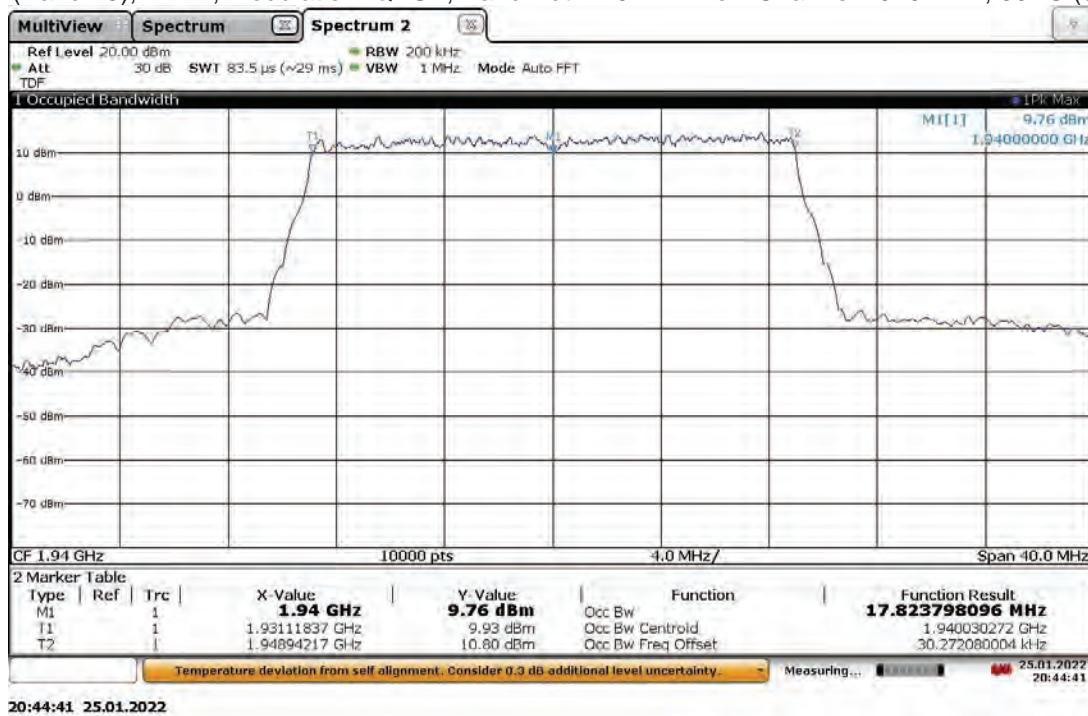
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, 10 °C (5G nR)



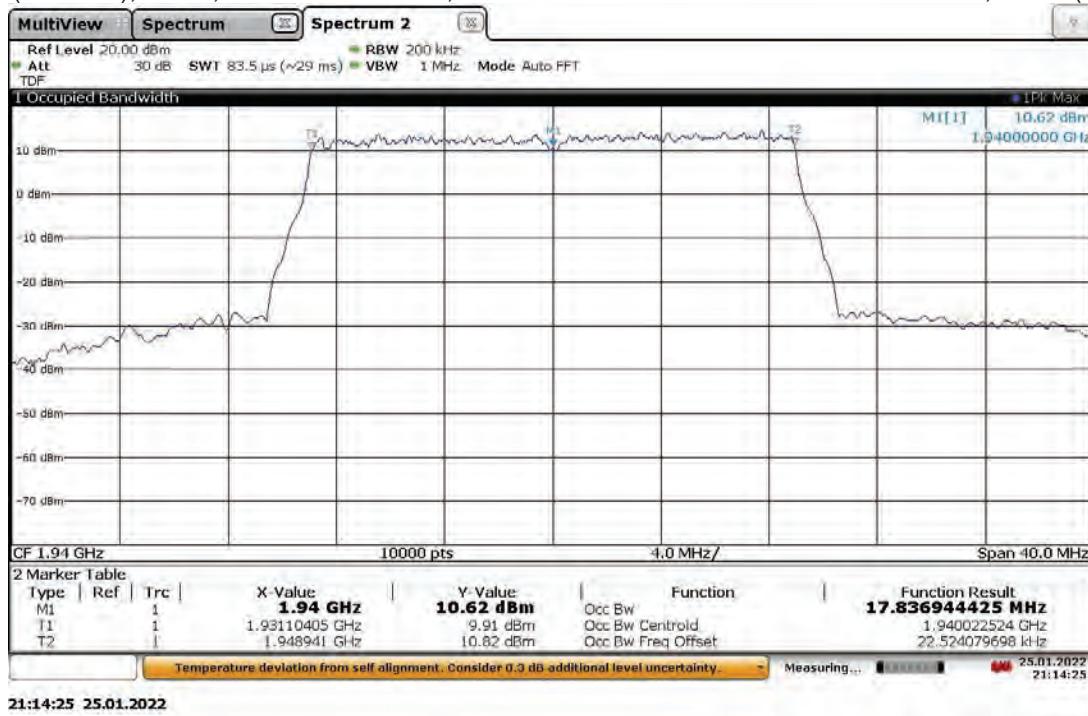
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, 20 °C (5G nR)



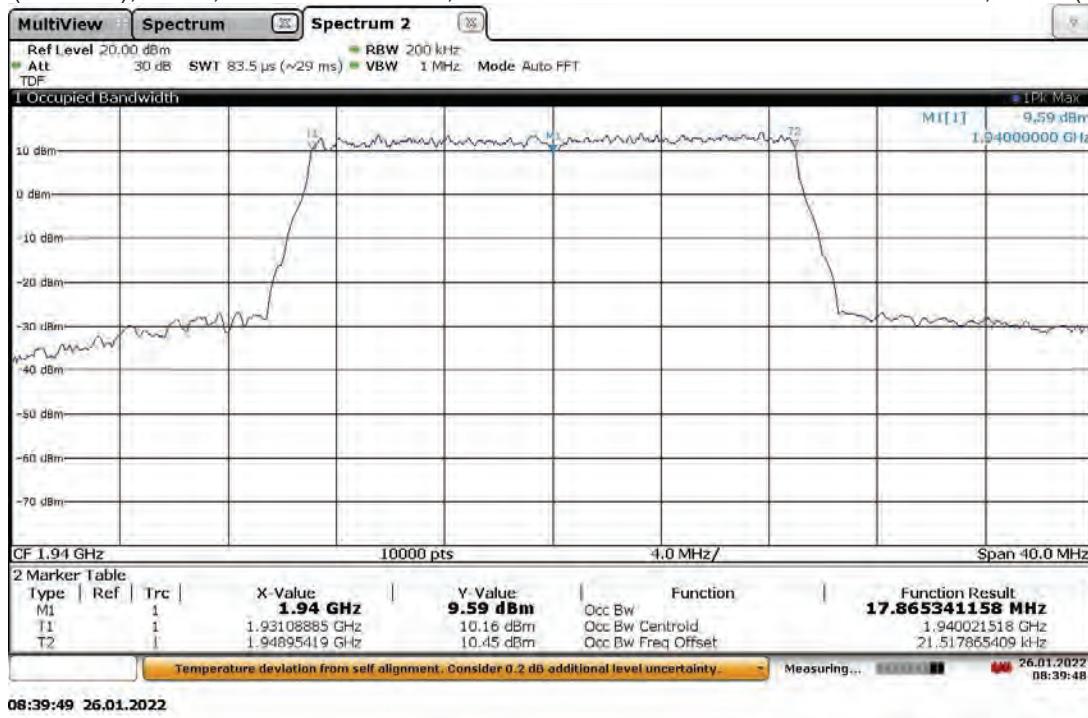
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, 30 °C (5G nR)



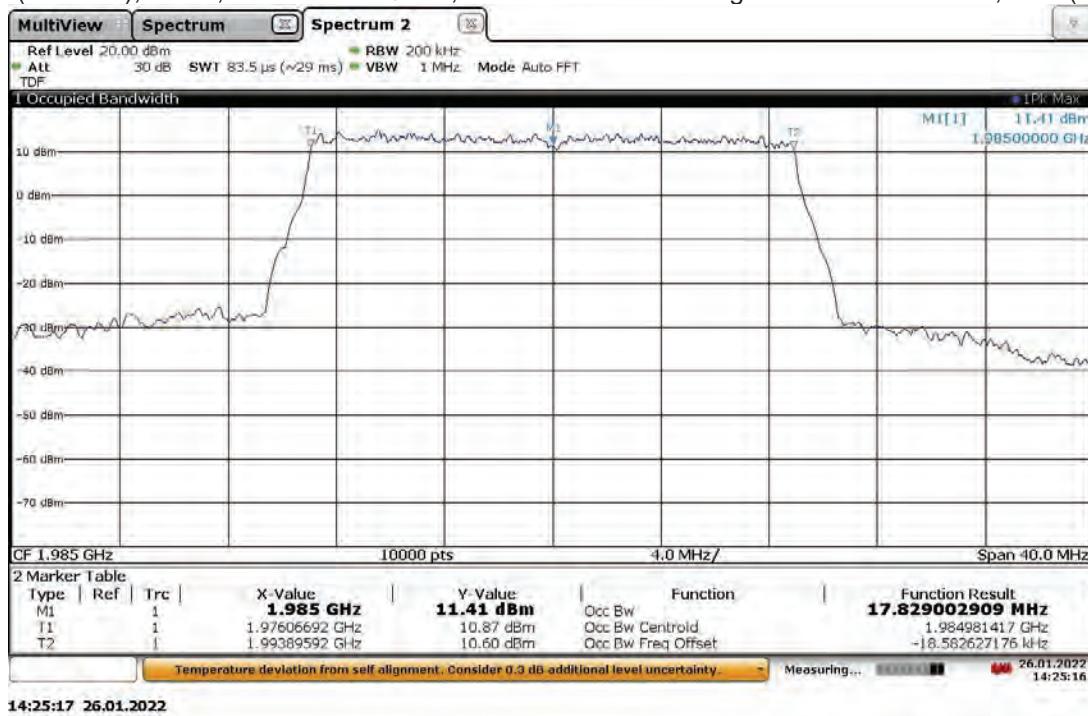
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, 40 °C (5G nR)



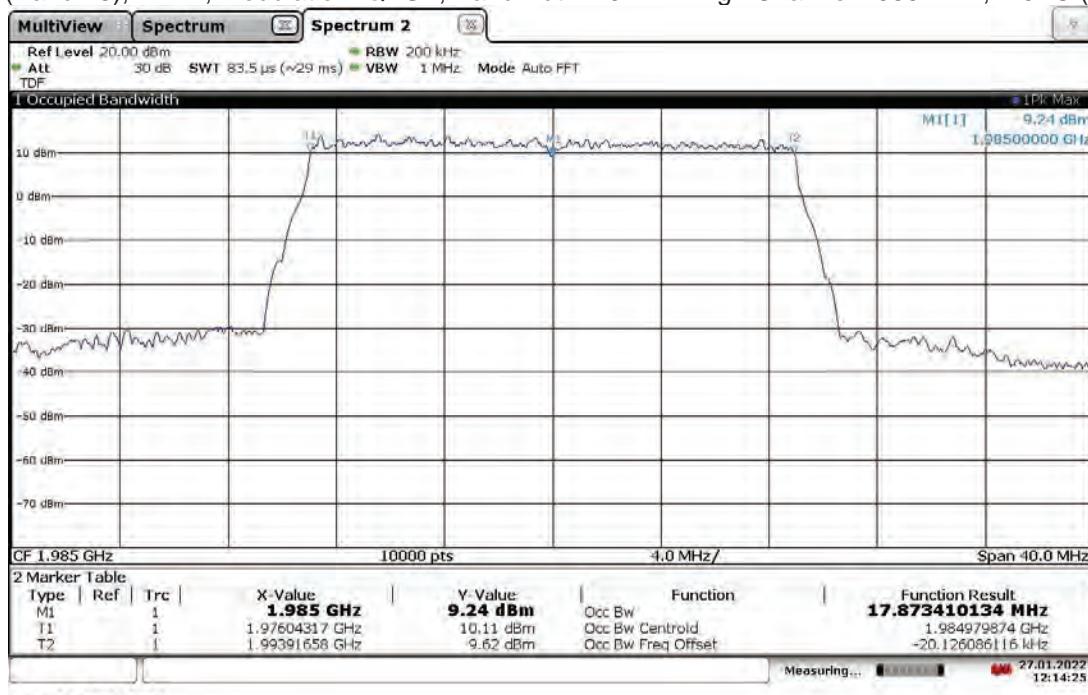
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz Low Channel 1940 MHz, 50 °C (5G nR)



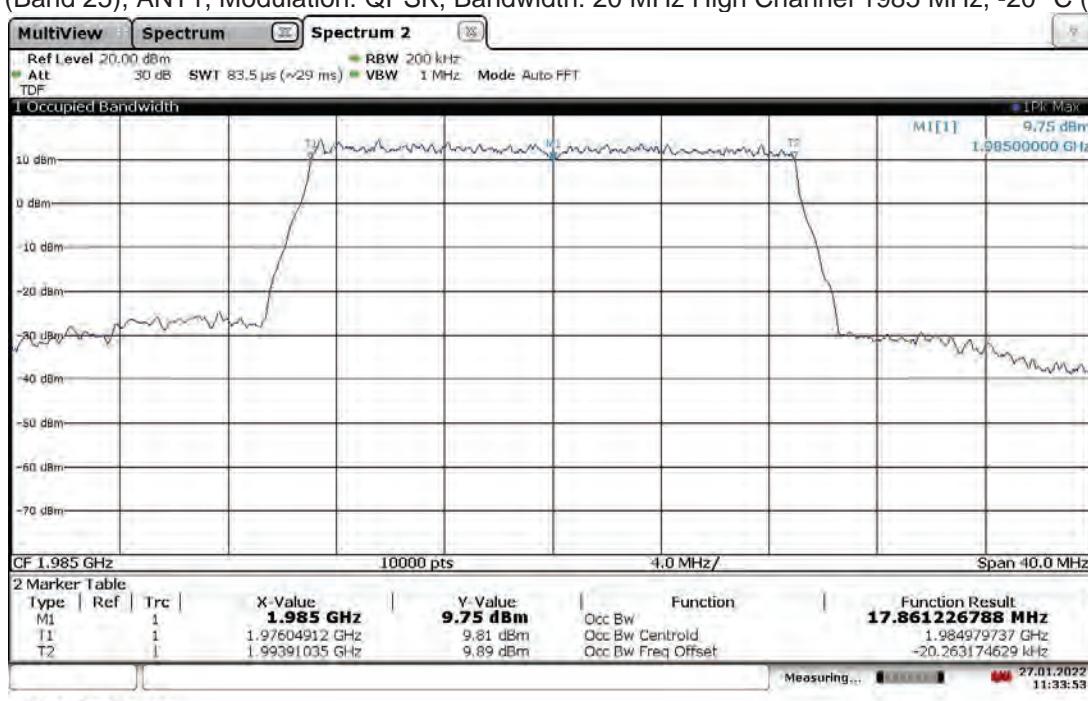
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, 0 °C (5G nR)



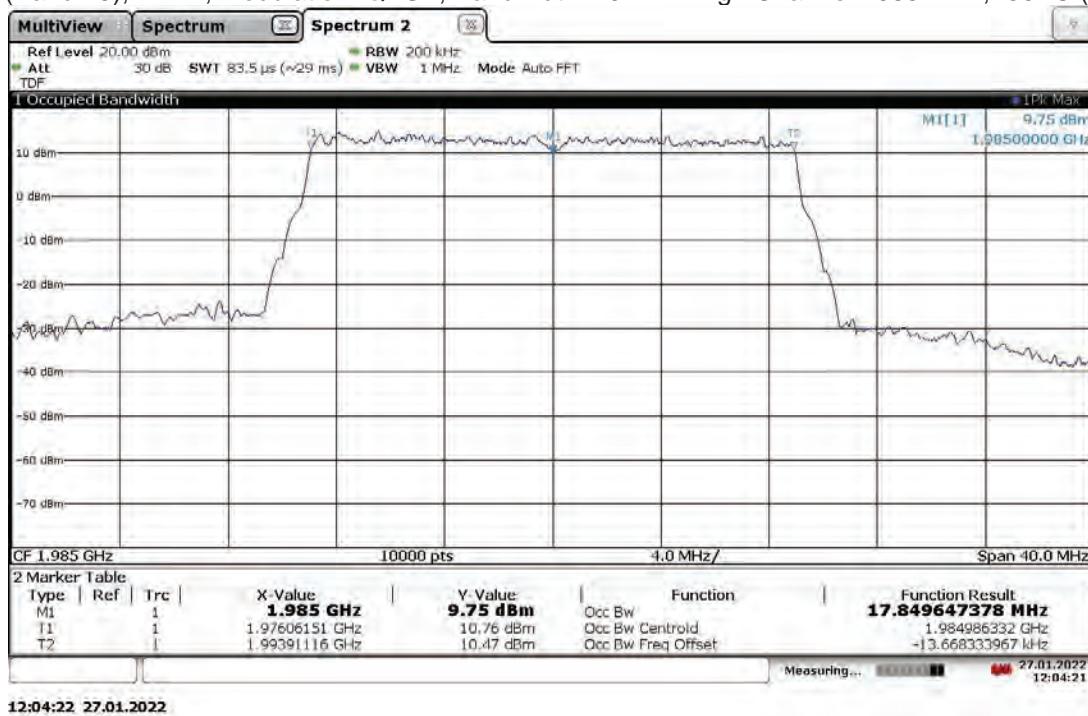
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, -10 °C (5G nR)



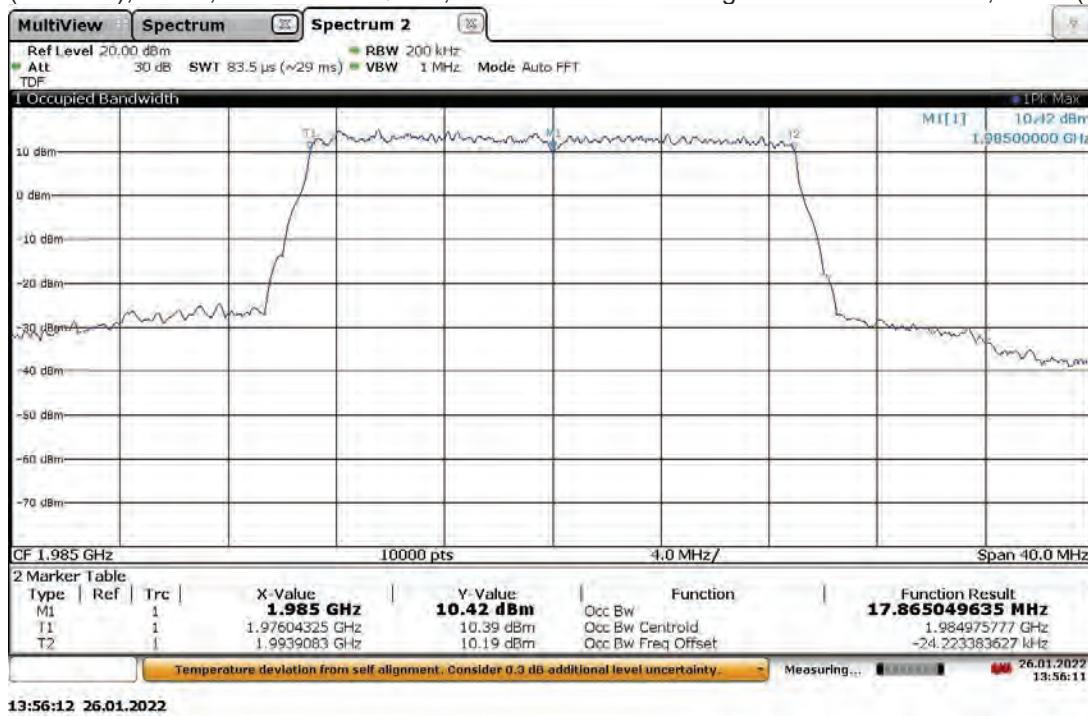
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, -20 °C (5G nR)



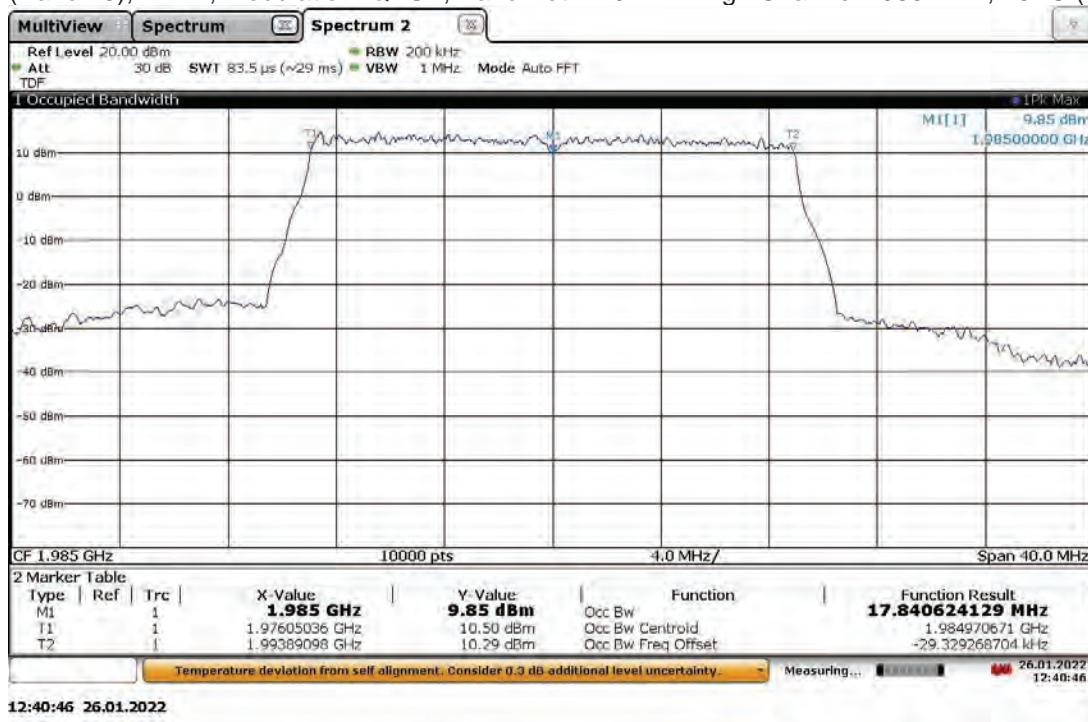
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, -30 °C (5G nR)



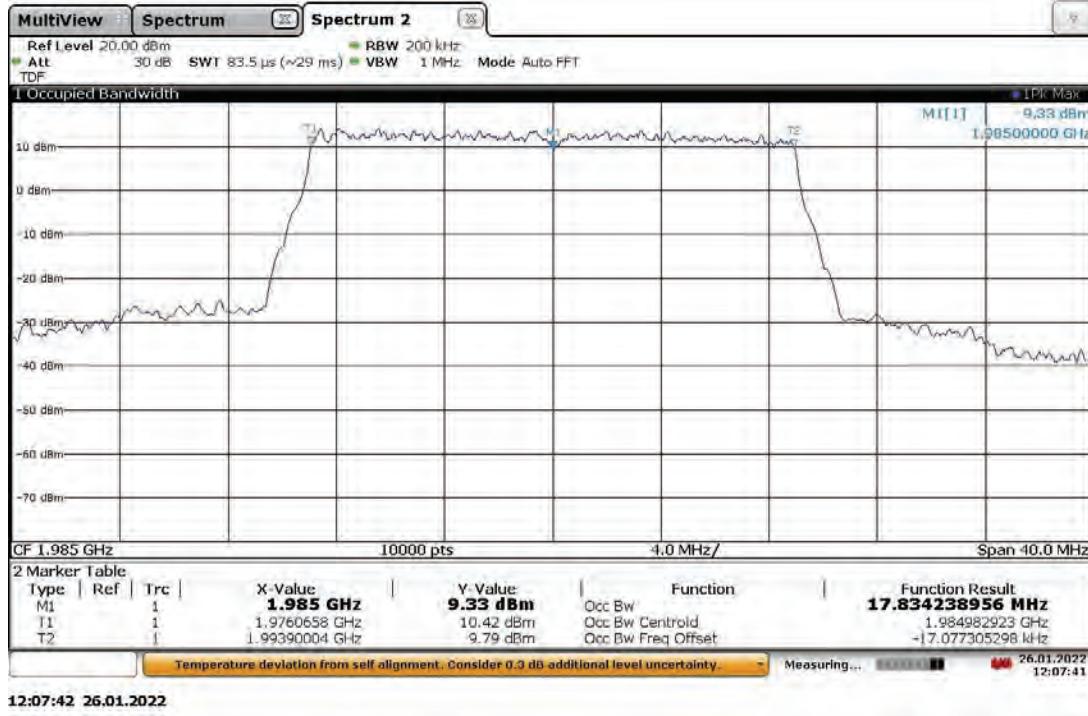
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, 10 °C (5G nR)



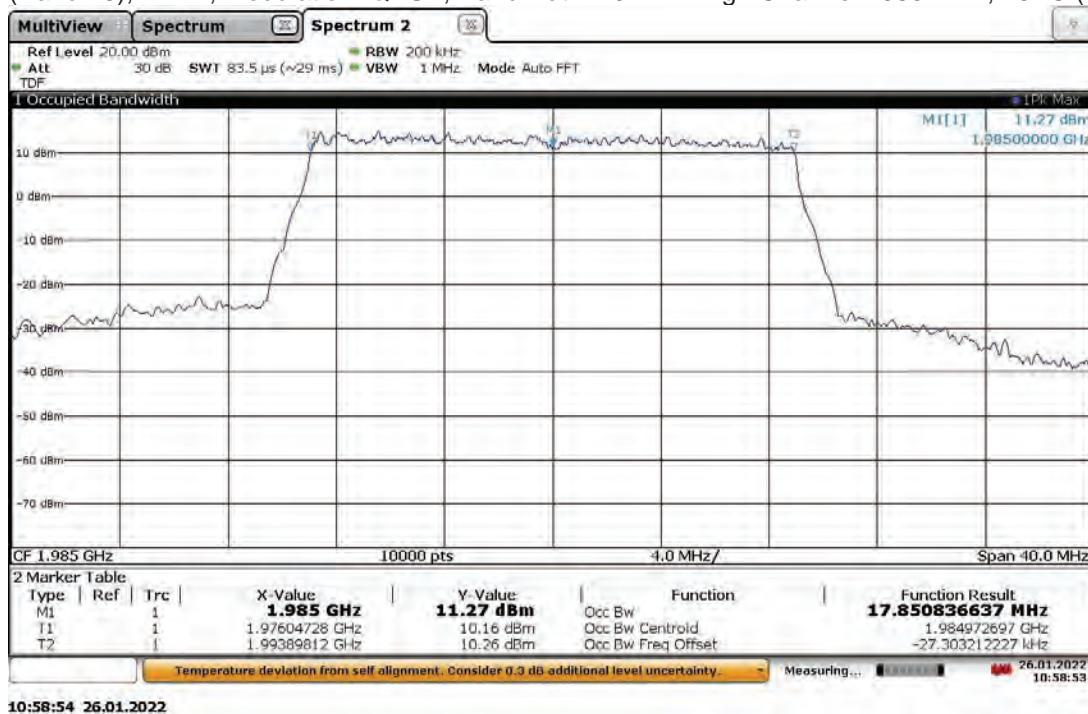
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, 20 °C (5G nR)



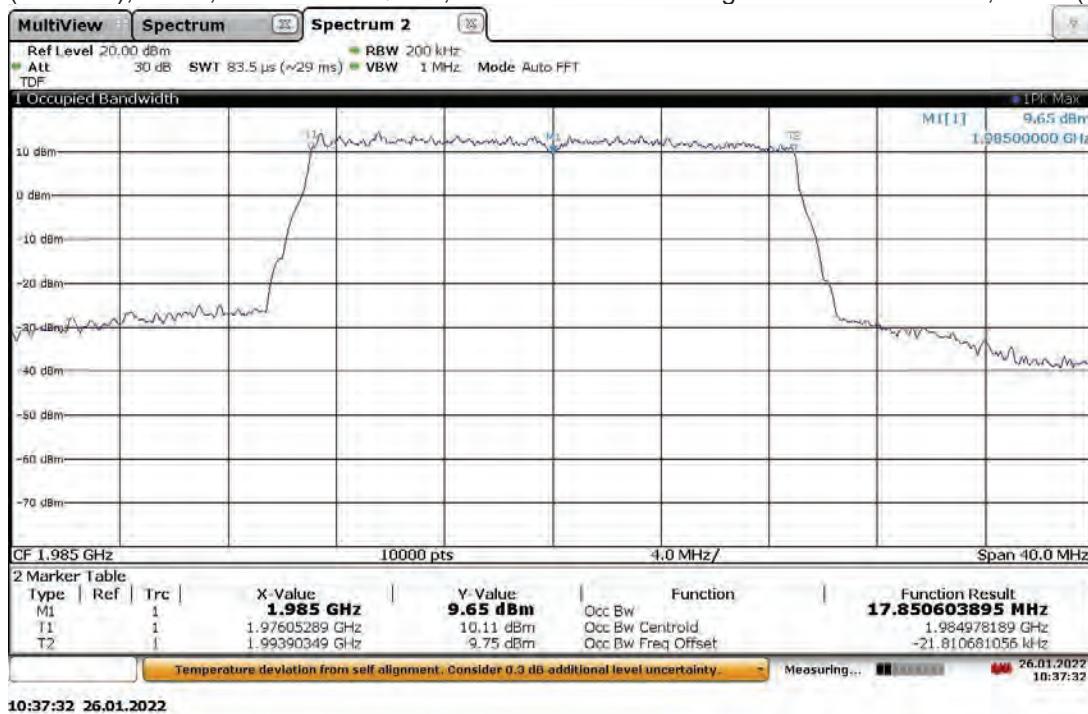
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, 30 °C (5G nR)



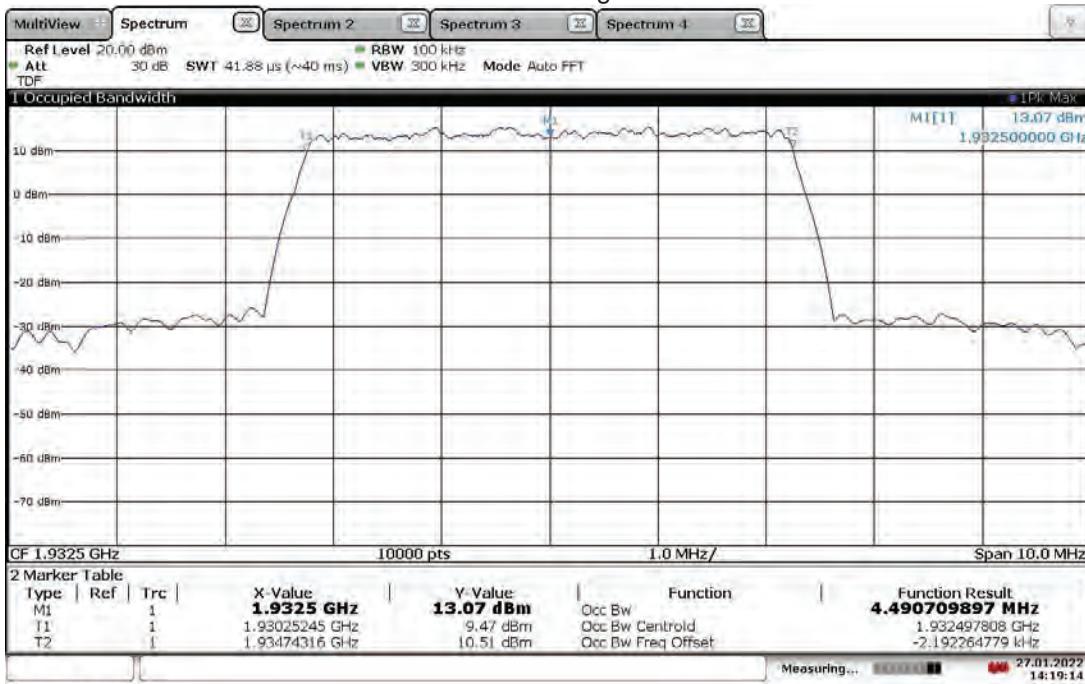
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, 40 °C (5G nR)



Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz High Channel 1985 MHz, 50 °C (5G nR)

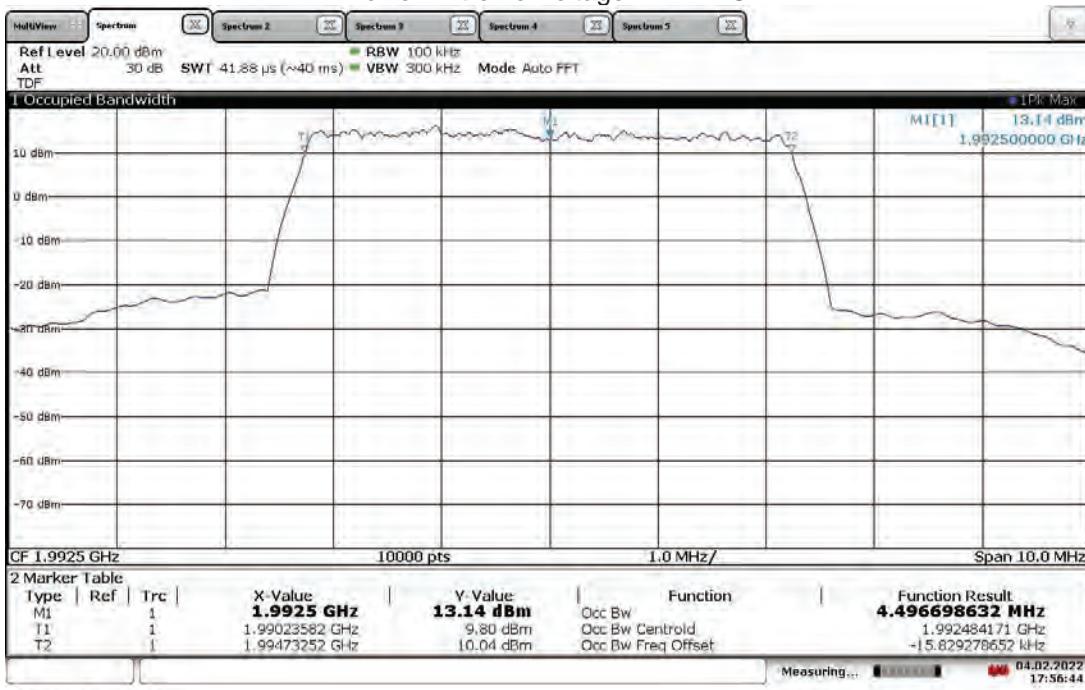


Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, Low Channel 1932.5 MHz, (4G LTE)
Lower Extreme Voltage: 41.1VDC



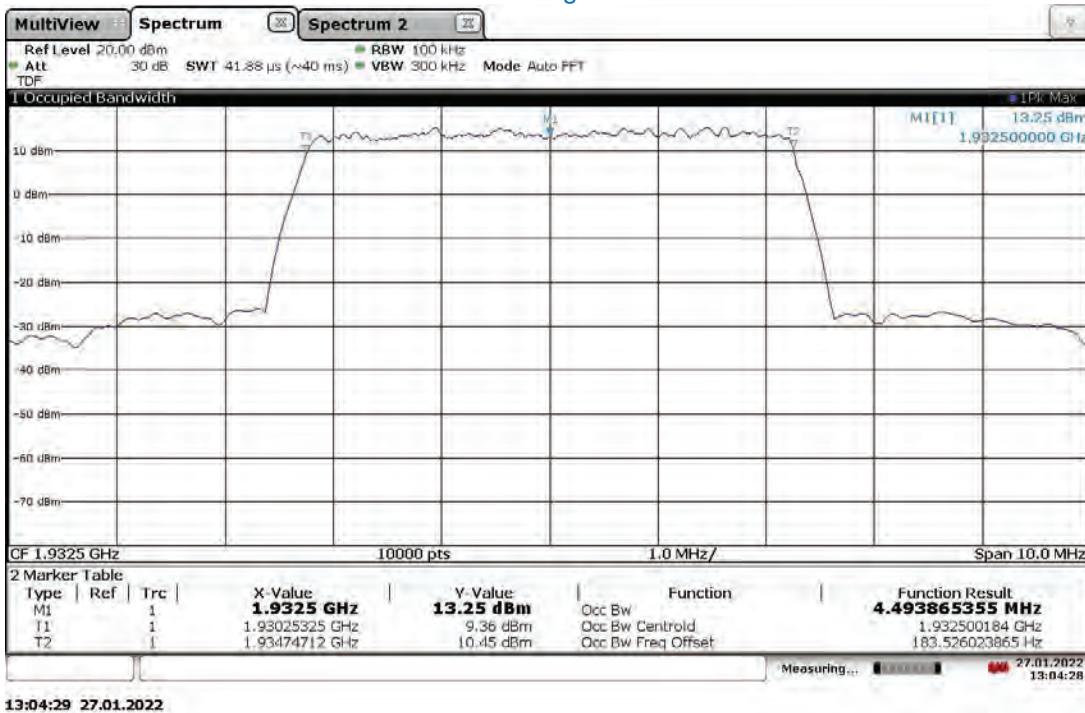
14:19:15 27.01.2022

Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, High Channel 1992.5 MHz (4G LTE)
Lower Extreme Voltage: 41.1VDC

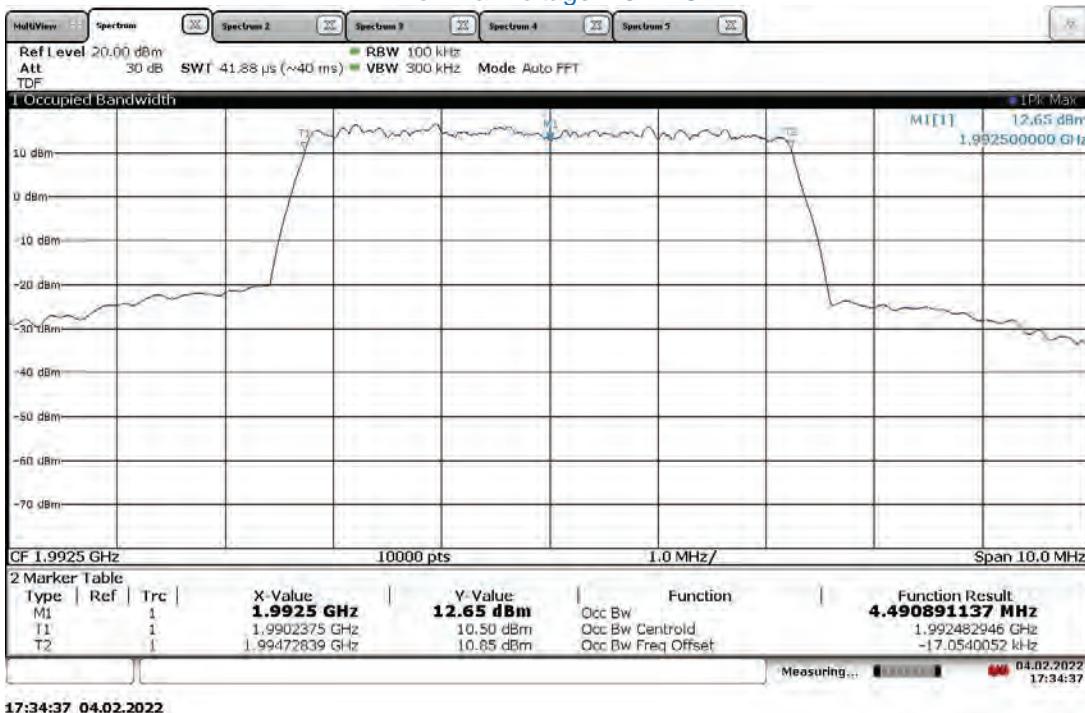


17:56:44 04.02.2022

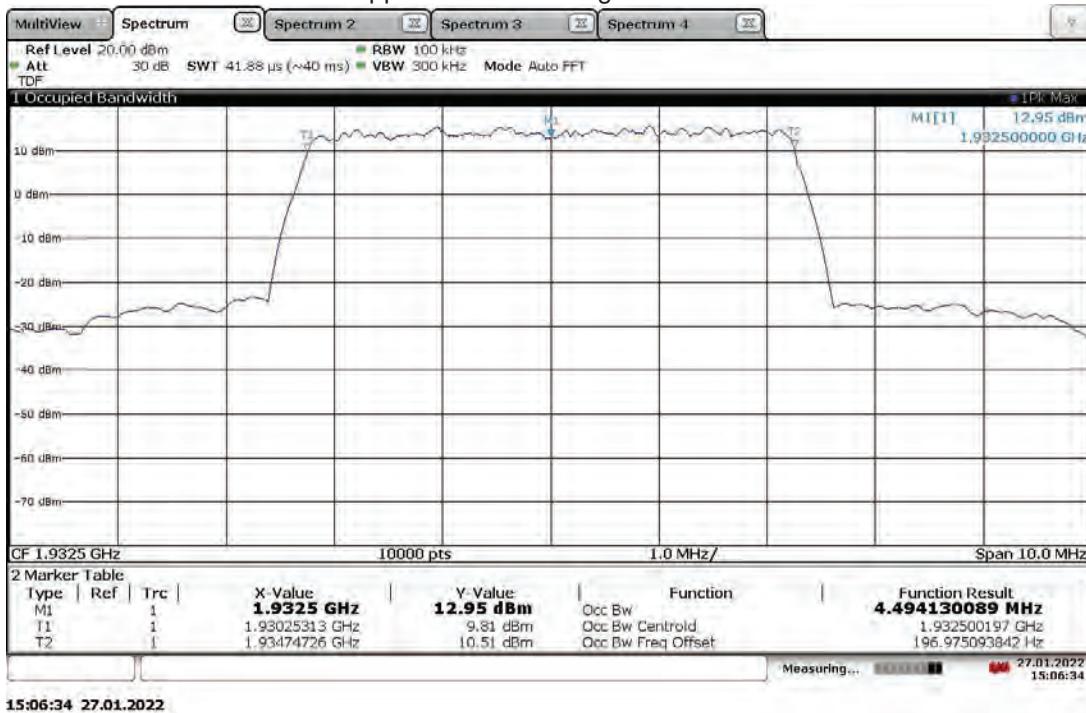
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, Low Channel 1932.5 MHz, (4G LTE)
Nominal Voltage: 48 VDC



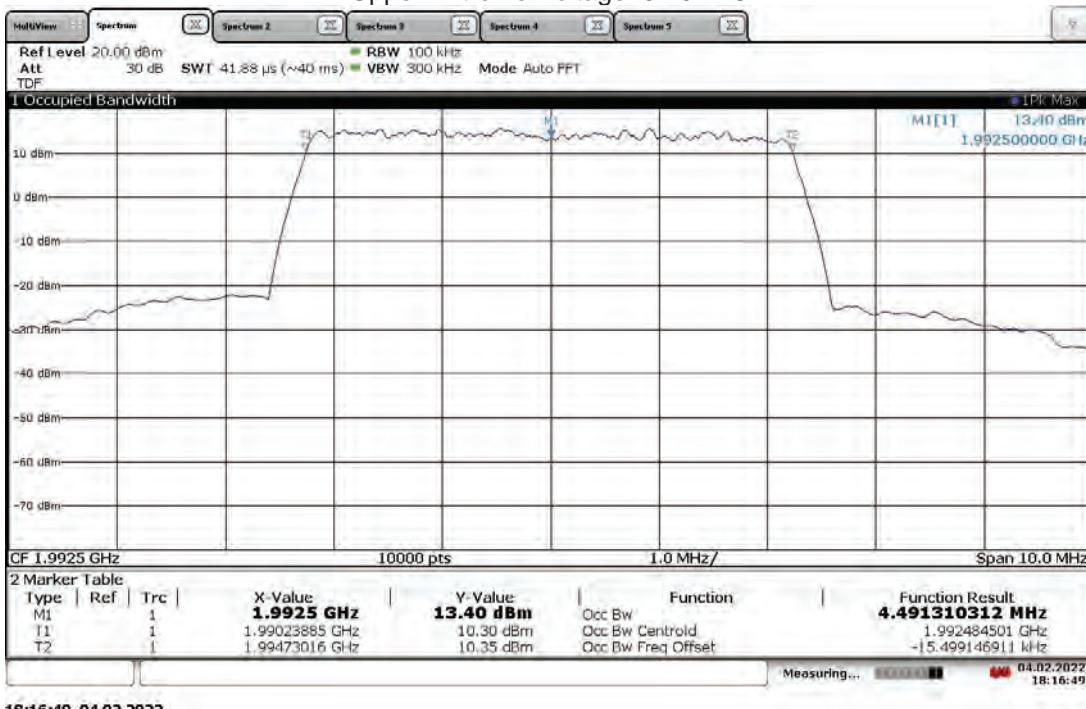
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, High Channel 1992.5 MHz (4G LTE)
Nominal Voltage: 48 VDC



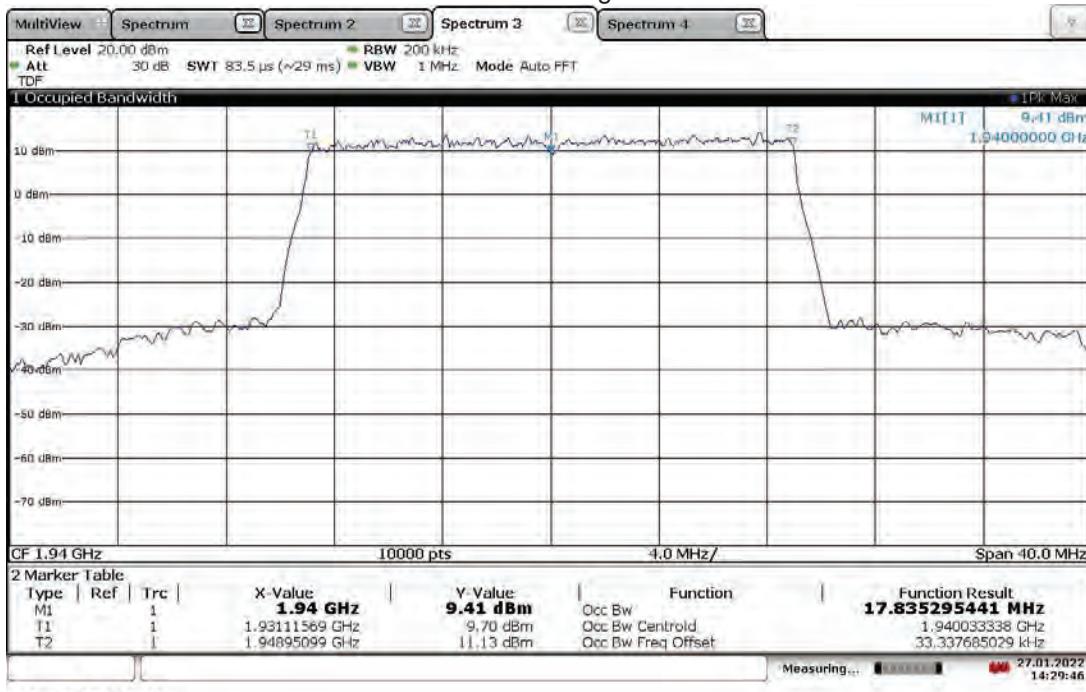
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, Low Channel 1932.5 MHz (4G LTE)
Upper Extreme Voltage: 57.0VDC



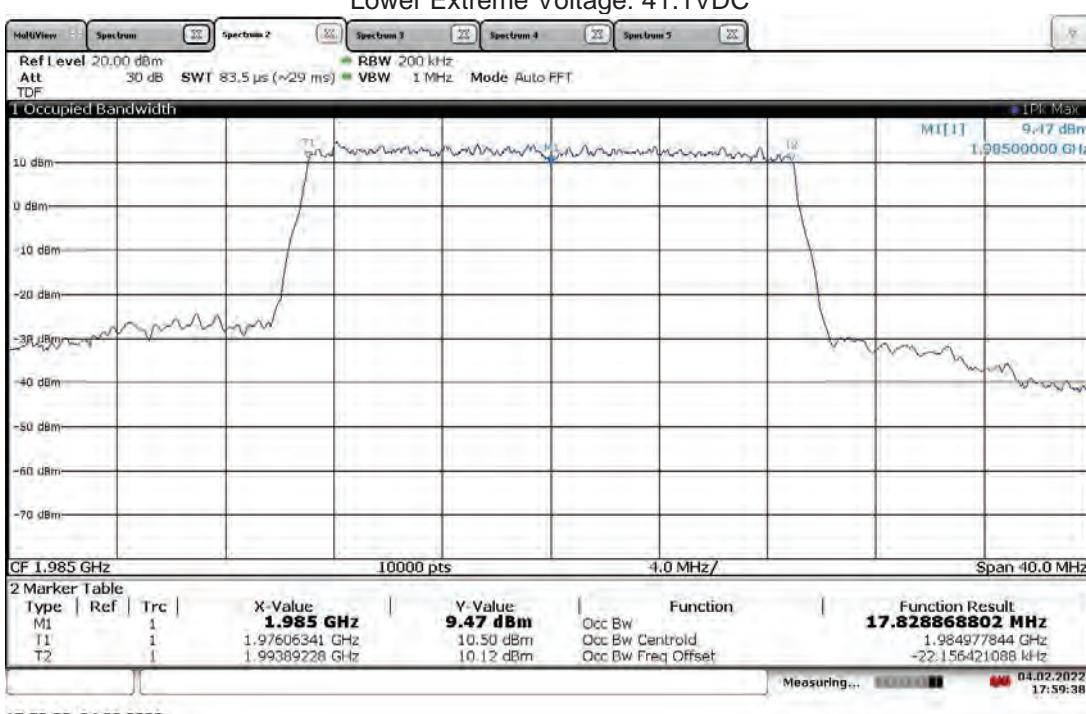
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, High Channel 1992.5 MHz (4G LTE)
Upper Extreme Voltage: 57.0VDC



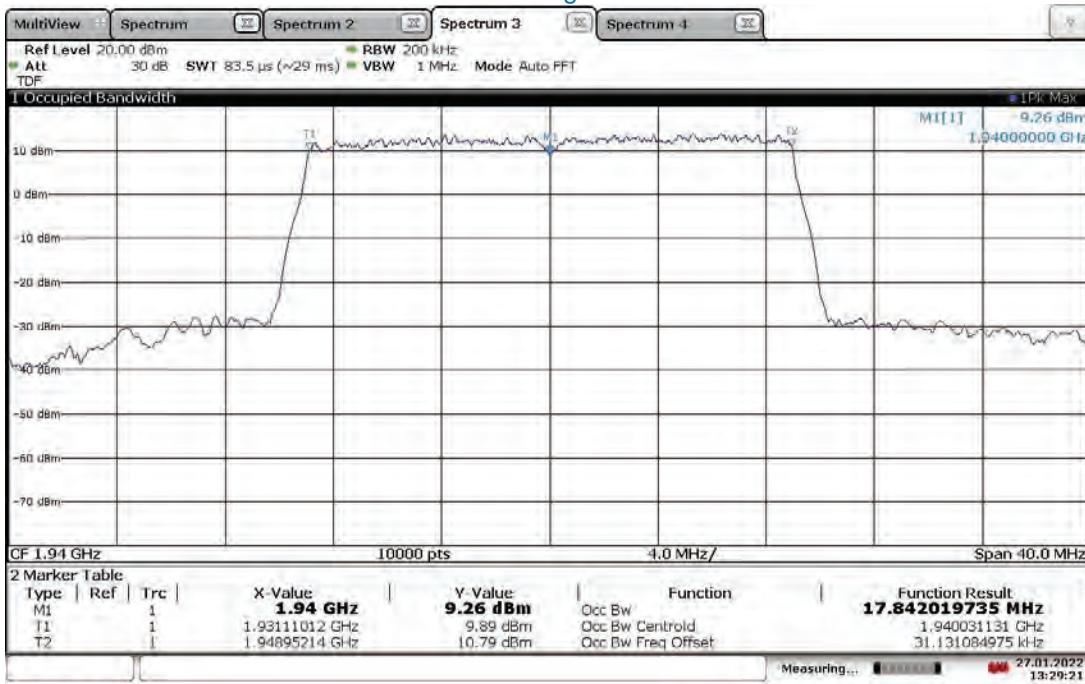
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, Low Channel 1940 MHz (4G LTE)
 Lower Extreme Voltage: 41.1VDC



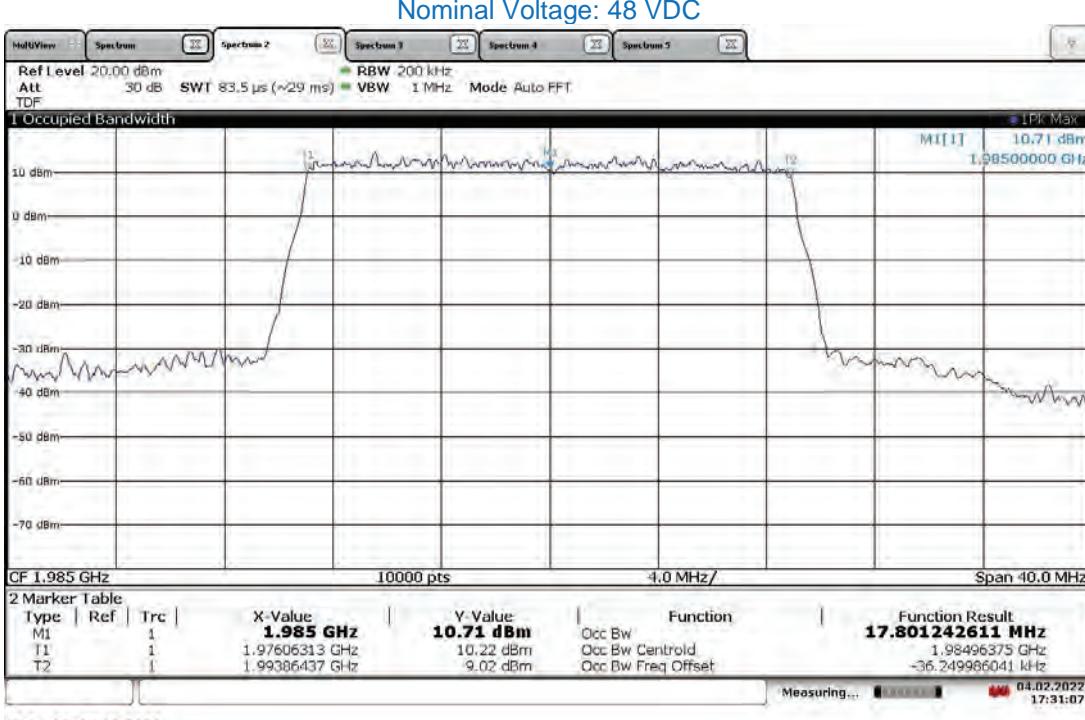
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, High Channel 1985 MHz (4G LTE)
 Lower Extreme Voltage: 41.1VDC



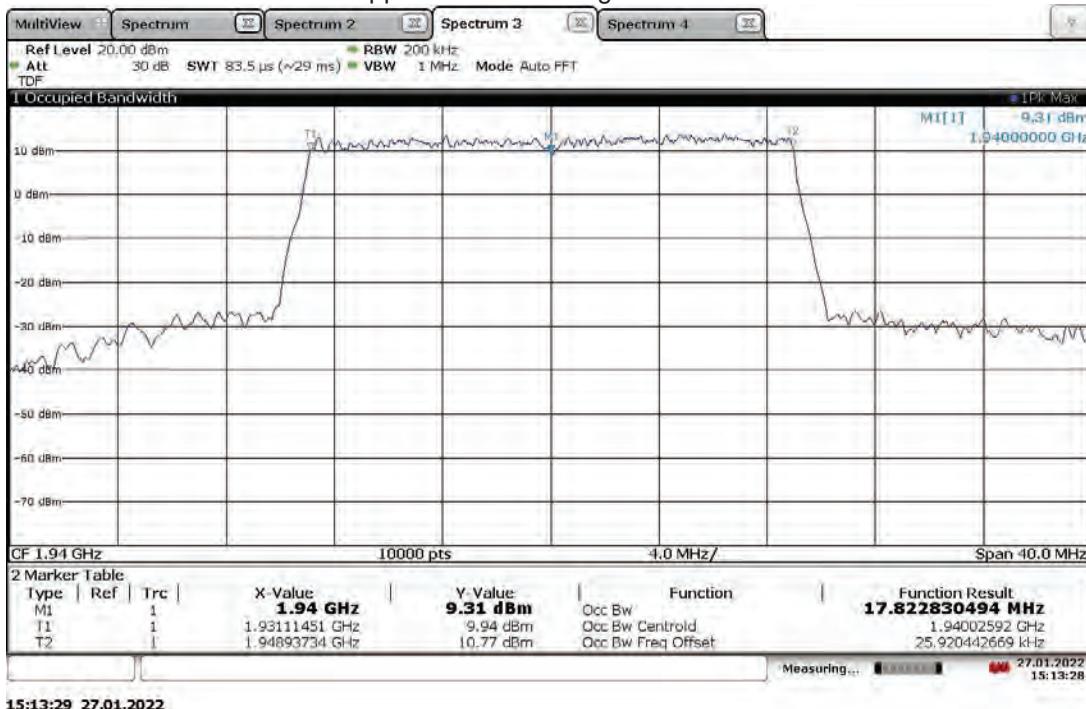
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, Low Channel 1940 MHz (4G LTE)
Nominal Voltage: 48 VDC



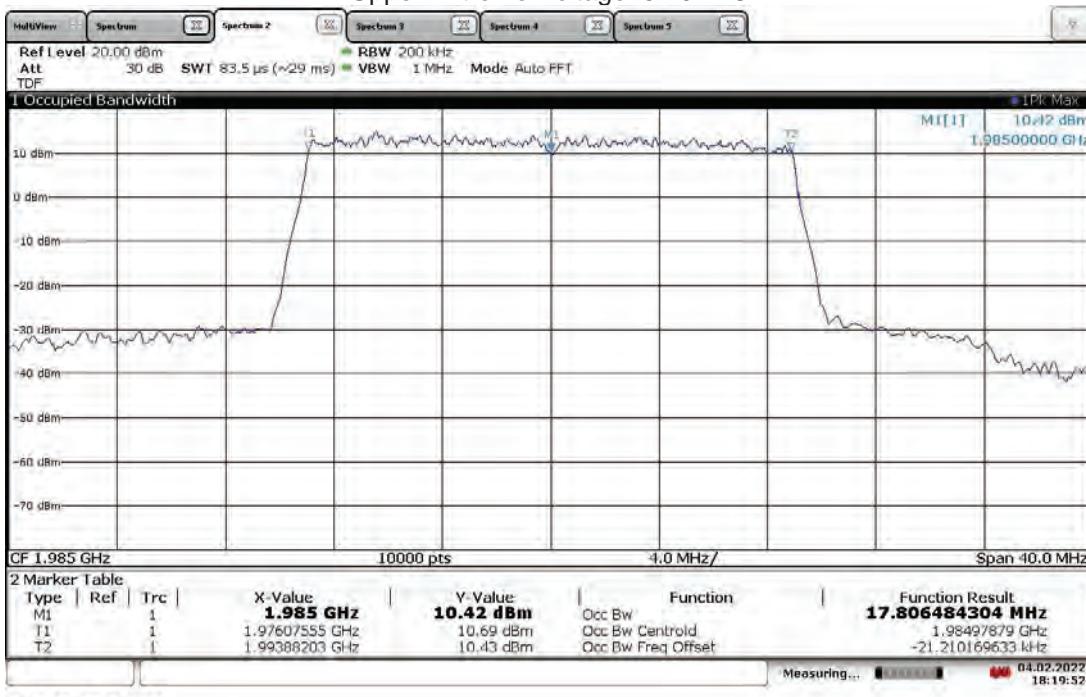
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, High Channel 1980 MHz (4G LTE)
Nominal Voltage: 48 VDC



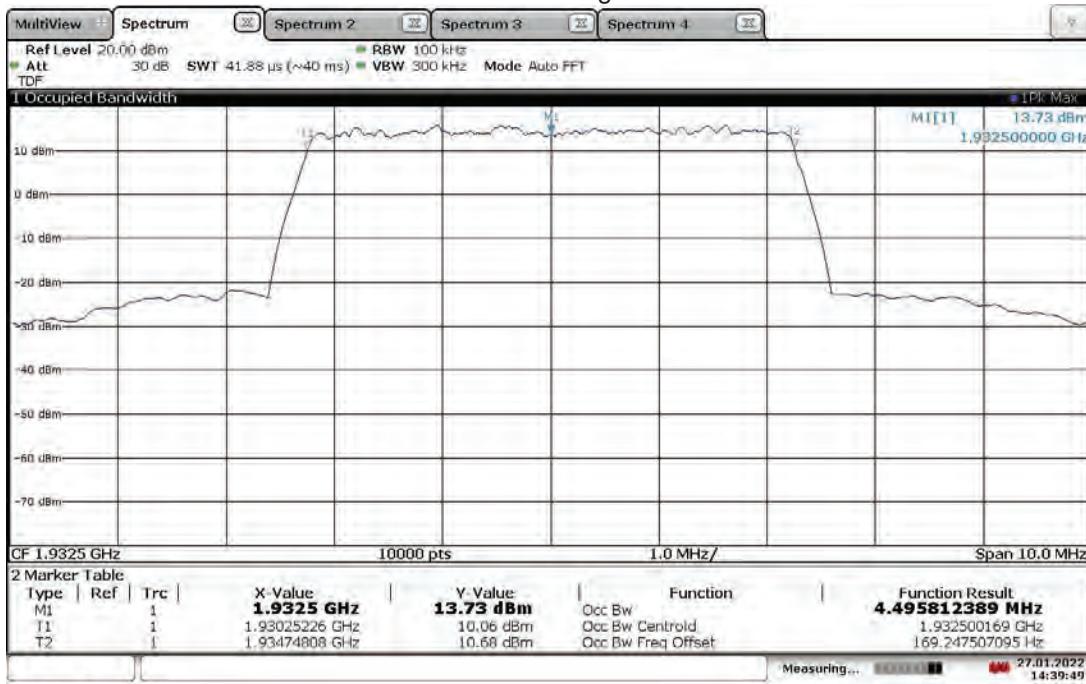
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, Low Channel 1940 MHz (4G LTE)
Upper Extreme Voltage: 57.0VDC



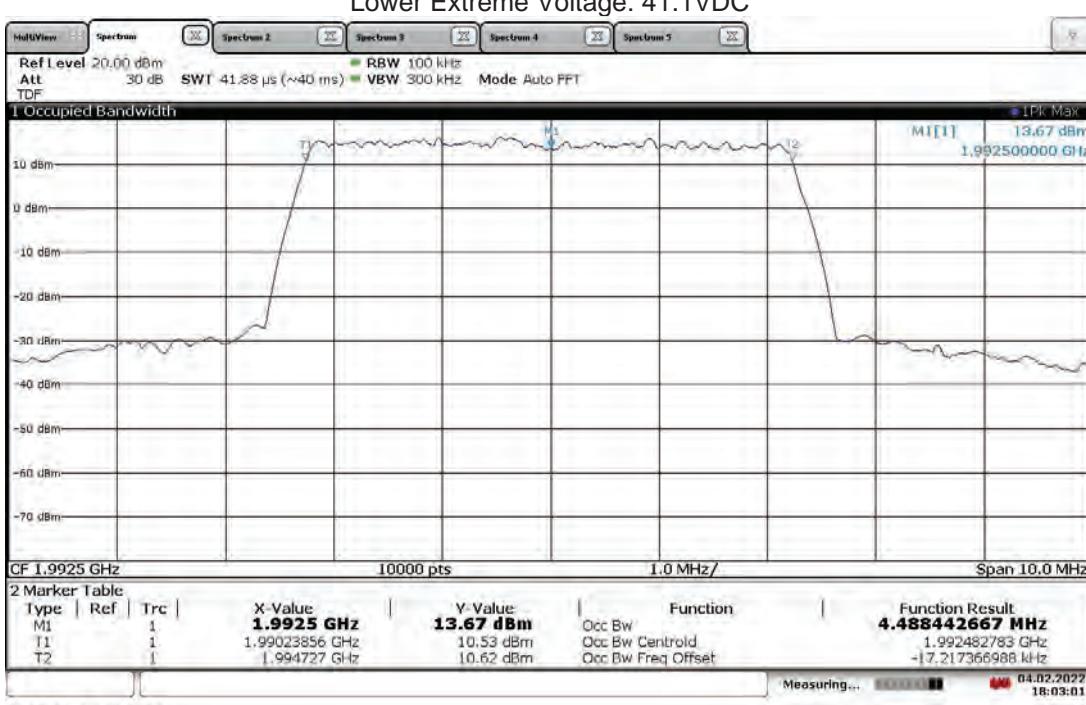
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, High 1985 MHz (4G LTE)
Upper Extreme Voltage: 57.0VDC



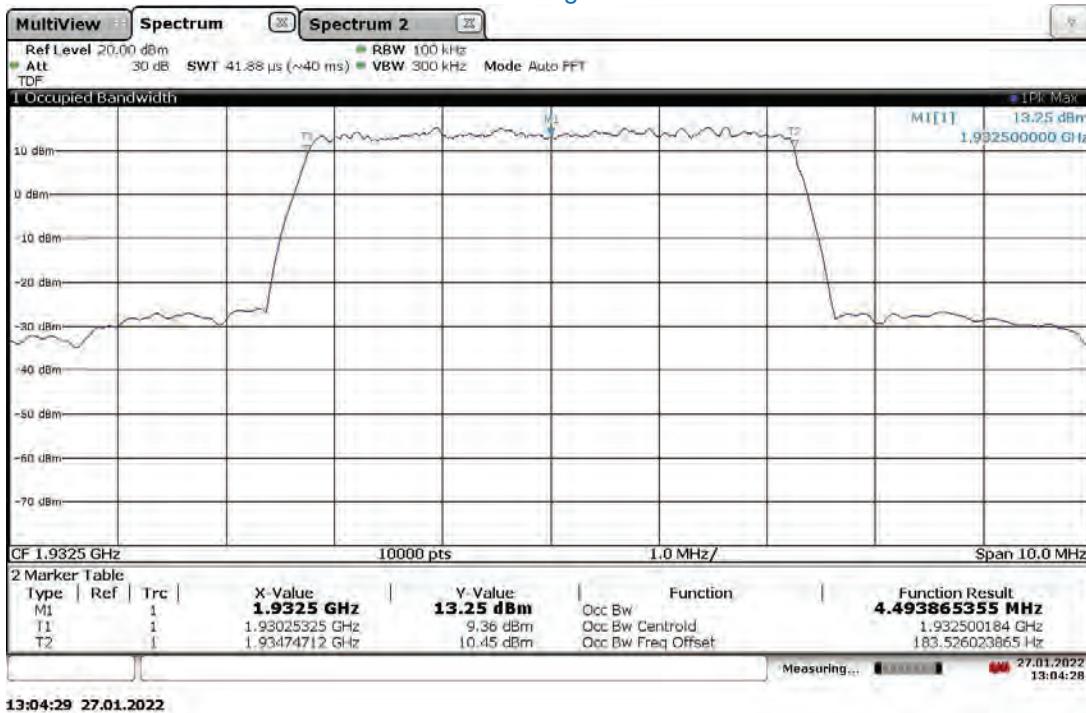
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, Low Channel 1932.5 MHz (5G nR)
 Lower Extreme Voltage: 41.1VDC



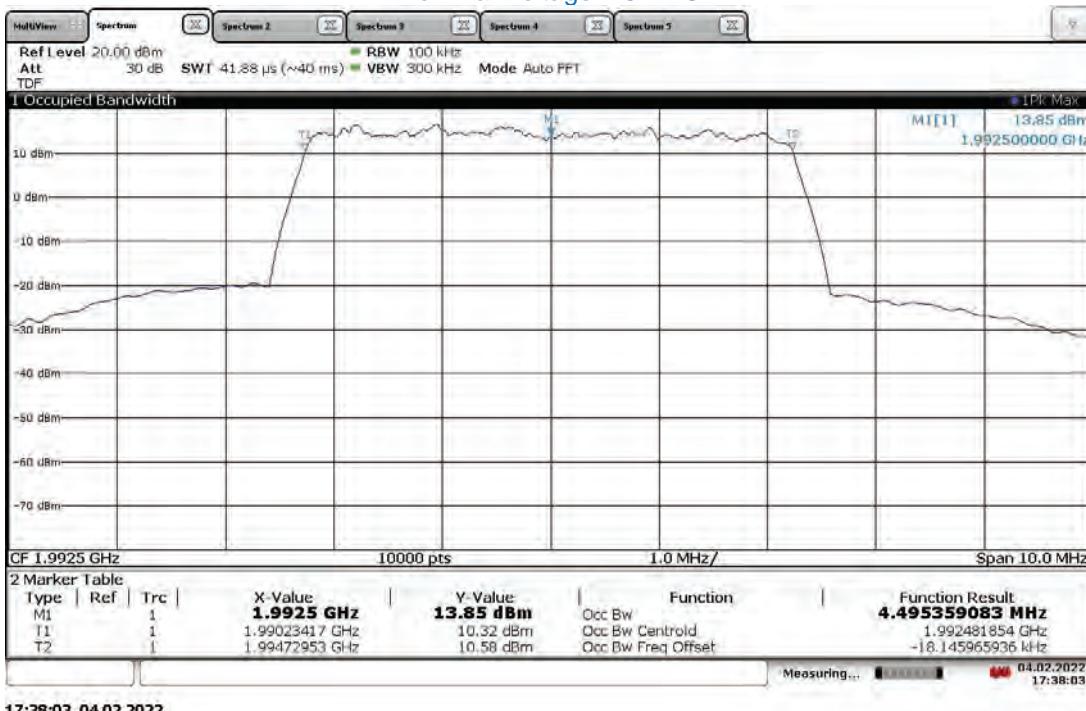
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, High Channel 1992.5 MHz (5G nR)
 Lower Extreme Voltage: 41.1VDC



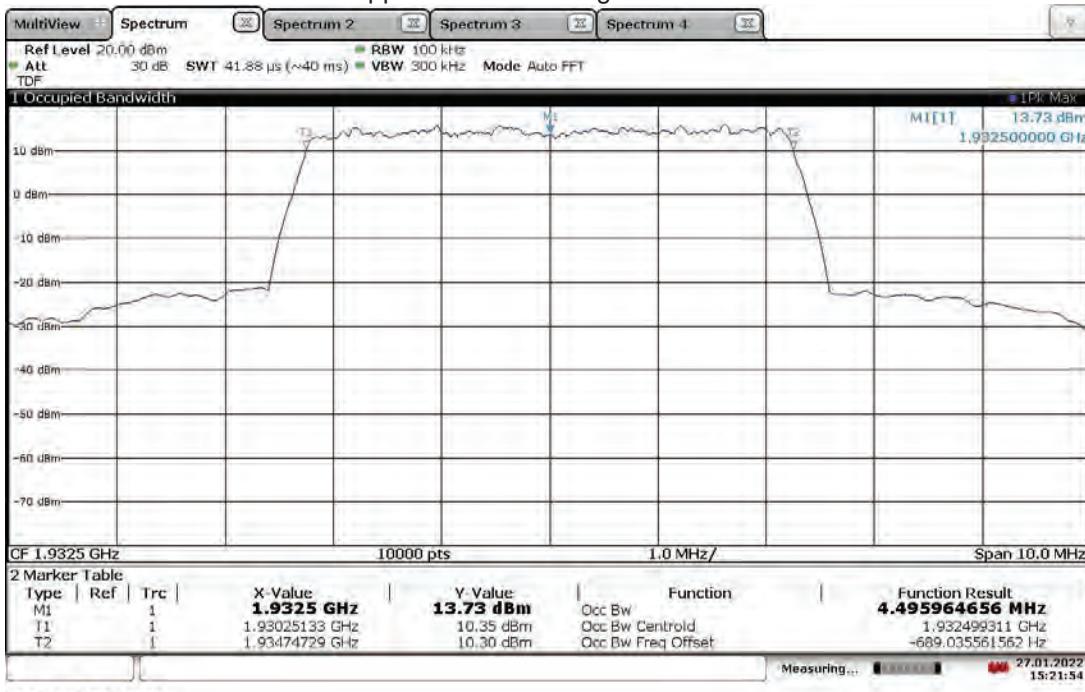
Slot 0 (Band 25ANT1, Modulation: QPSK, Bandwidth: 5 MHz, Low Channel 1932.5 MHz (5G nR)
Nominal Voltage: 48 VDC



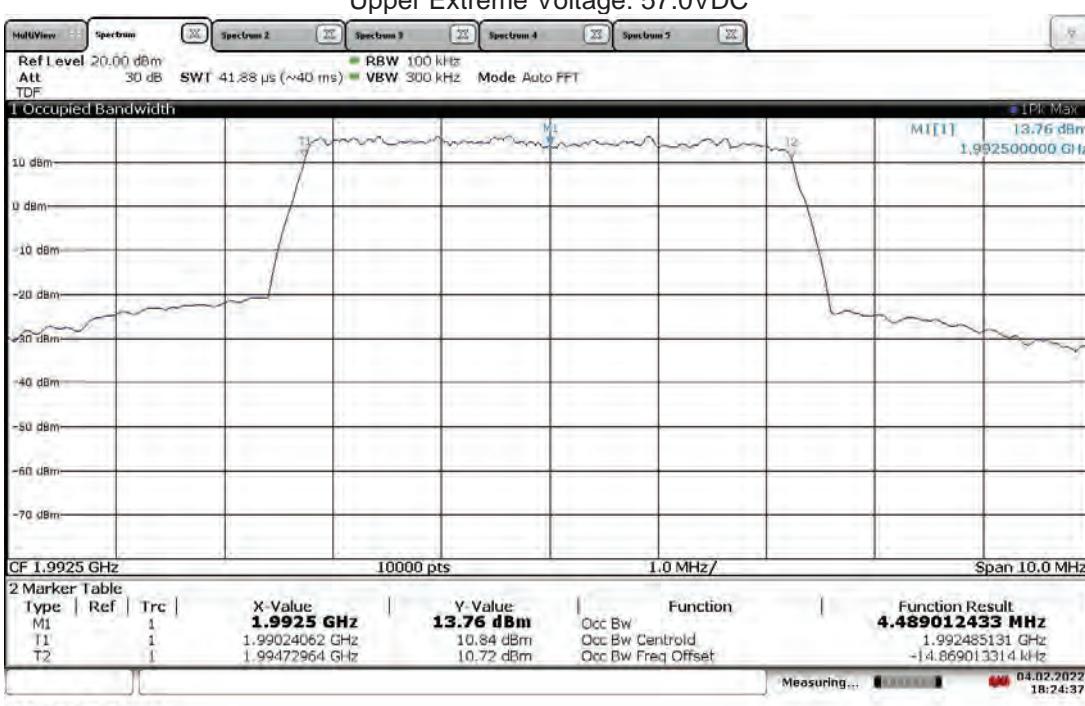
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, High Channel 1992.5 MHz (5G nR)
Nominal Voltage: 48 VDC



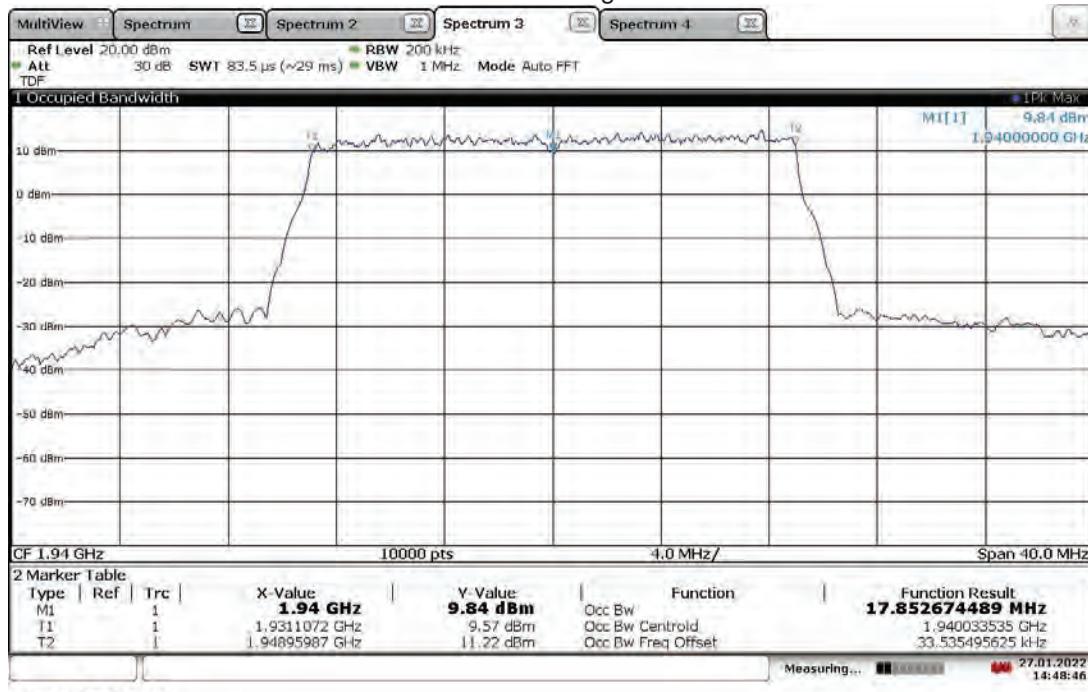
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, Low Channel 1932.5 MHz (5G nR)
Upper Extreme Voltage: 57.0VDC



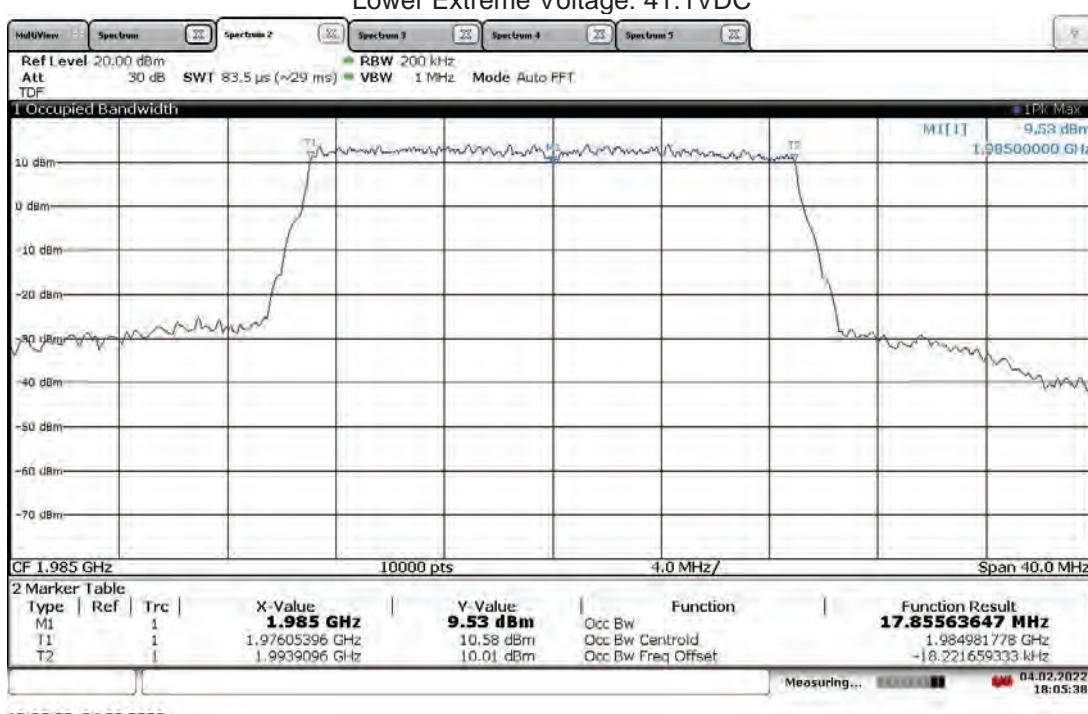
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 5 MHz, High Channel 1992.5 MHz (5G nR)
Upper Extreme Voltage: 57.0VDC



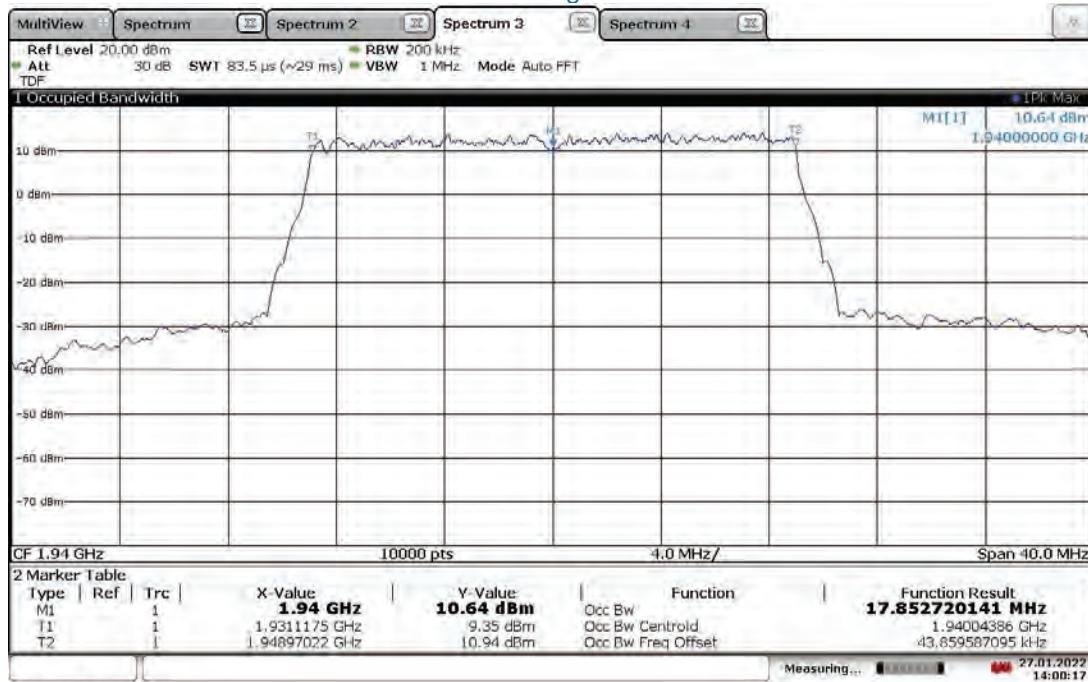
Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, Low Channel 1940 MHz (5G nR)
 Power Extreme Voltage: 41.1VDC



Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, High Channel 1985 MHz (5G nR)
 Lower Extreme Voltage: 41.1VDC

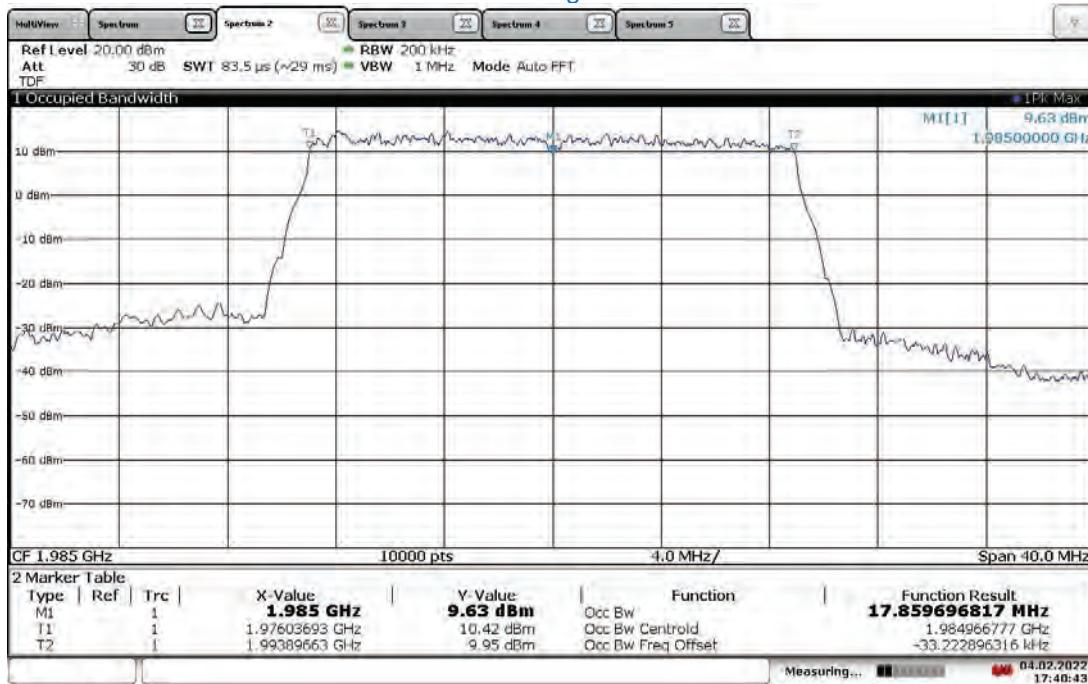


Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, Low Channel 1940 MHz (5G nR)
Nominal Voltage: 48 VDC



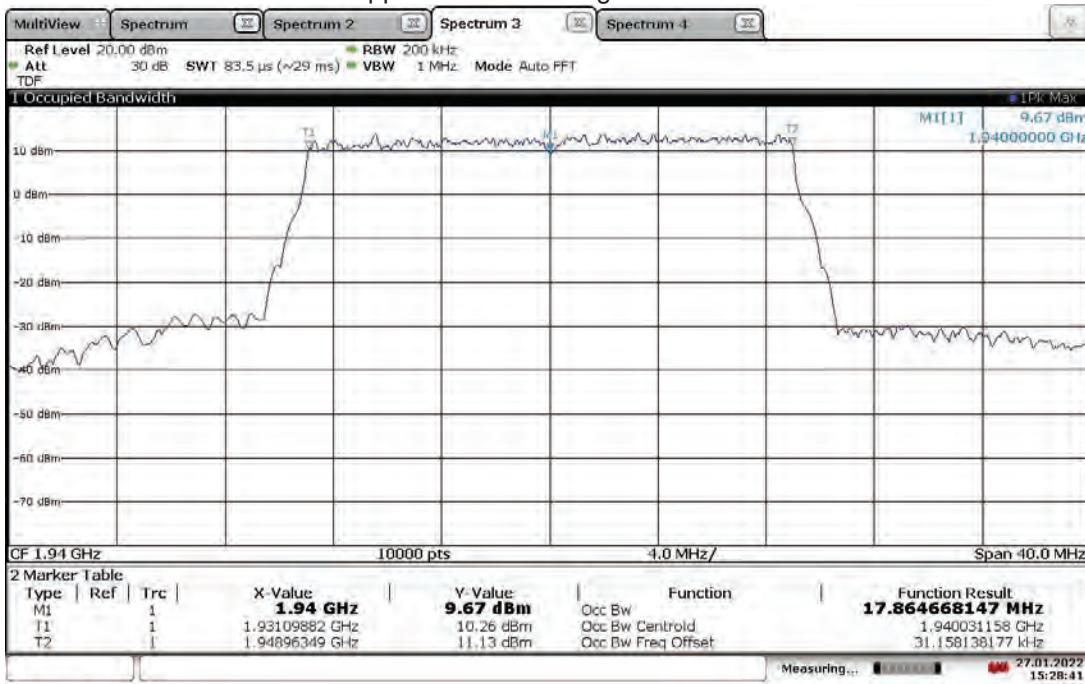
14:00:18 27.01.2022

Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, High Channel 1985 (5G nR)
Nominal Voltage: 48 VDC

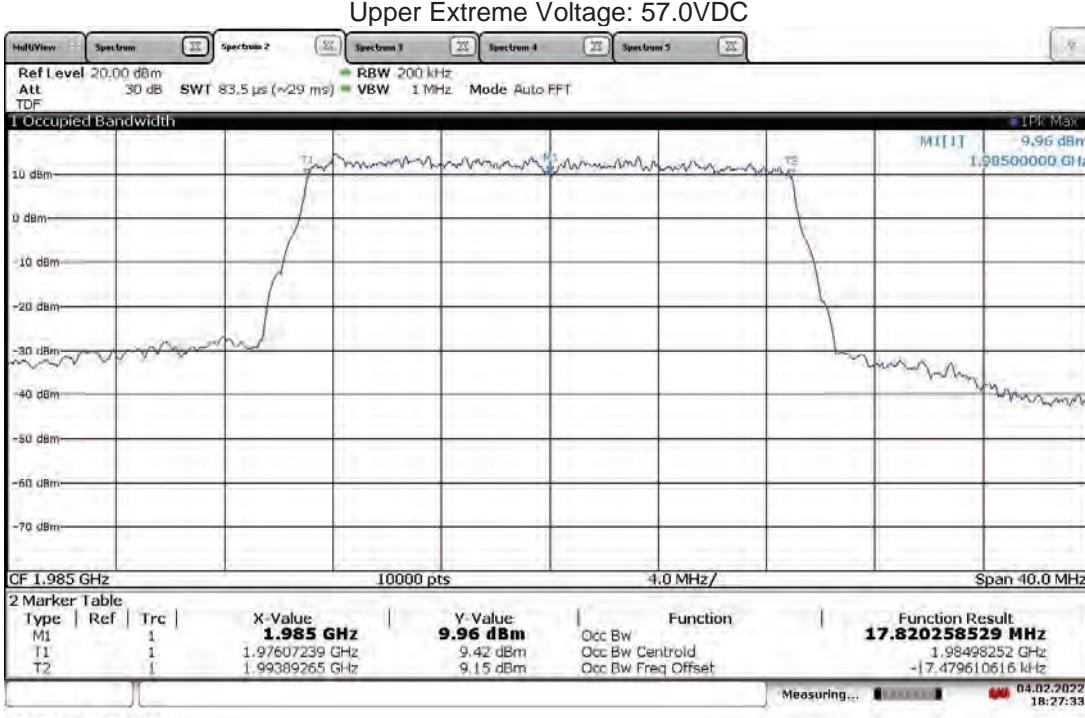


17:40:43 04.02.2022

Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, Low Channel 1940 MHz (5G nR)
Upper Extreme Voltage: 57.0VDC



Slot 0 (Band 25), ANT1, Modulation: QPSK, Bandwidth: 20 MHz, High Channel 1985 MHz (5G nR)
Upper Extreme Voltage: 57.0VDC



18:27:33 04.02.2022

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

Test Date: 01/25/2023, 01/26/2022,
01/27/2022, 02/04/2022

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

Limit Applied: See report section 10.3

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

Ambient Temperature: 24, 24, 22, 24 °C

Relative Humidity: 17, 10, 17, 12 %

Atmospheric Pressure: 1002, 1014, 1022, 1010 mbars

Deviations, Additions, or Exclusions: None

11 Transmitter spurious emissions

11.1 Method

Tests are performed in accordance with ANSI C63.26 and CFR47 FCC Parts 2.1051, 2.1053, 2.1057, 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.

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

| Measurement | Frequency Range | Expanded Uncertainty (k=2) | Ucispr |
|-------------------------|-----------------|----------------------------|--------|
| Radiated Emissions, 10m | 30-1000 MHz | 4.6dB | 6.3 dB |
| Radiated Emissions, 3m | 30-1000 MHz | 5.3 dB | 6.3 dB |
| Radiated Emissions, 3m | 1-6 GHz | 4.5 dB | 5.2 dB |
| Radiated Emissions, 3m | 6-15 GHz | 5.2 dB | 5.5 dB |
| Radiated Emissions, 3m | 15-18 GHz | 5.0 dB | 5.5 dB |
| Radiated Emissions, 3m | 18-40 GHz | 5.0 dB | 5.5 dB |

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 52.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}/\text{m}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$FS = 32 \text{ dB}\mu\text{V}/\text{m}$$

To convert from $\text{dB}\mu\text{V}$ to μV or mV the following was used:

$$UF = 10^{(NF/20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

$$NF = \text{Net Reading in } \text{dB}\mu\text{V}$$

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V}/\text{m}$$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

11.2 Test Equipment Used:

Test equipment used for antenna port conducted test

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|------------|--|-------------------|----------------|-------------|------------|------------|
| CEN001' | DC-40GHz attenuator 20dB | Centric RF | C411-20 | CEN001 | 01/22/2021 | 01/22/2022 |
| CBLSHF204' | Cable, SMA - SMA, 9kHz -40GHz, (Cable Kit 5) | Huber + Suhner | Sucoflex 102EA | 234714001 | 02/03/2021 | 02/03/2022 |
| ROS005-1' | Signal and Spectrum Analyzer | Rohde and Shwartz | FSW43 | 100646 | 11/02/2021 | 11/02/2022 |
| DAV005' | Weather Station | Davis | 6250 | MS191218083 | 02/07/2021 | 02/07/2022 |
| DS40' | Temp, humidity, pressure gauge | Digi Sense | 68000-49 | 181717625 | 11/09/2021 | 11/09/2022 |

Software Utilized:

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

Test equipment used for radiated emissions, 9 kHz-30 MHz (02/14/2022 & 02/16/2022)

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|--|-----------------|----------------------|-------------|------------|------------|
| DAV007' | Weather Station Vantage Vue | Davis | 6250 | MS191212003 | 03/20/2021 | 03/20/2022 |
| 145108' | EMI Test Receiver (20Hz - 40GHz) | Rohde & Schwarz | ESIB40 | 100209 | 06/22/2021 | 06/22/2022 |
| 145-420' | Receiver to floor cable | Utitflex | UFB311A-2-0591-70070 | 145-420 | 02/17/2021 | 02/17/2022 |
| CBL051' | 9kHz to 1GHz BNC/ BNC Cable | Belden | RG58A/U | none | 04/16/2021 | 04/16/2022 |
| ETS003' | 9kHz-30MHz Active Loop Antenna | ETS Lindgren | 6502 | 00143396 | 08/26/2021 | 08/26/2022 |
| 145-422 | 10Amp Pre-amp to under floor | Utitflex | UFB311A-0-2756-70070 | 145-422 | 02/17/2021 | 02/17/2022 |
| 145-414' | Cables 145-400 145-403 145-405 145-409 | Huber + Suhner | 3m Track A cables | multiple | 07/09/2021 | 07/09/2022 |

Test equipment used for Radiated emissions, 30-1000 MHz

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|---|----------------------|----------------------|-------------|------------|------------|
| DAV007' | Weather Station Vantage Vue | Davis | 6250 | MS191212003 | 03/20/2021 | 03/20/2022 |
| 145108' | EMI Test Receiver (20Hz - 40GHz) | Rohde & Schwarz | ESIB40 | 100209 | 06/22/2021 | 06/22/2022 |
| 145-420' | Receiver to floor cable | Utitflex | UFB311A-2-0591-70070 | 145-420 | 02/17/2021 | 02/17/2022 |
| PRE11' | 50dB gain pre-amp | Pasternack | PRE11 | PRE11 | 09/02/2021 | 09/02/2022 |
| IW006' | DC-18GHz cable 8.4m long | Insulated Wire | 2800-NPS | IW006 | 07/22/2021 | 07/22/2022 |
| IW001' | 2 meter cable | Insulated Wire | 2801-NPS | 001 | 09/23/2021 | 09/23/2022 |
| 145-406' | 10m Track A In-floor Cable #1 | Huber + Suhner | sucoflex 160-19220mm | 001 | 07/22/2021 | 07/22/2022 |
| 145145' | Broadband Hybrid Antenna 30 MHz - 3 GHz | Sunol Sciences Corp. | JB3 | A122313 | 06/09/2021 | 06/09/2022 |

Test equipment used for radiated emissions, 1-18 GHz

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|--|-----------------|----------------------|-------------|------------|------------|
| DAV007' | Weather Station Vantage Vue | Davis | 6250 | MS191212003 | 03/20/2021 | 03/20/2022 |
| IW003' | 8.4 meter cable | Insulated Wire | 2800-NPS | 003 | 10/15/2021 | 10/15/2022 |
| ETS002 | 1-18GHz DRG Horn Antenna | ETS Lindgren | 3117 | 00143260 | 08/24/2021 | 08/24/2022 |
| 145108' | EMI Test Receiver (20Hz - 40GHz) | Rohde & Schwarz | ESIB40 | 100209 | 06/22/2021 | 06/22/2022 |
| 145-420' | Receiver to floor cable | Utitflex | UFB311A-2-0591-70070 | 145-420 | 02/17/2021 | 02/17/2022 |
| 145-422' | 10Amp Pre-amp to under floor | Utitflex | UFB311A-0-2756-70070 | 145-422 | 02/17/2021 | 02/17/2022 |
| 145-414' | Cables 145-400 145-403 145-405 145-409 | Huber + Suhner | 3m Track A cables | multiple | 07/09/2021 | 07/09/2022 |
| PRE12' | Pre-amplifier | Com Power | PAM-118A | 18040117 | 12/06/2021 | 12/06/2022 |

Test equipment used for radiated emissions, 18-20 GHz (02/15/2022)

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|-----------------|---|-------------------|-----------------------|-------------|------------|------------|
| DAV007' | Weather Station Vantage Vue | Davis | 6250 | MS191212003 | 03/20/2021 | 03/20/2022 |
| PRE8' | PREAMPLIFIER 1- 40 GHz | MITEQ | NSP4000-NF | 507145 | 12/27/2021 | 12/27/2022 |
| REA006' | 18GHz High Pass Filter | Reactel, Inc | 7HS-18G/40G K11 (061) | 04/23/2021 | 04/23/2022 | |
| CBLHF2012-2M-2' | 2m 9kHz-40GHz Coaxial Cable - SET2 | Huber + Suhner | SF102 | 252675002 | 02/10/2022 | 02/10/2023 |
| ETS004' | 18-40GHz horn antenna | ets004 | 3116C | 00218579 | 03/08/2021 | 03/08/2022 |
| MEG002' | Cable,SMA-SMA,9KHz-40GHz, (Cable Kit 6) | Megaphase | TM40-K1K1-197 | 59006401001 | 12/06/2021 | 12/06/2022 |
| ROS005-1' | Signal and Spectrum Analyzer | Rohde and Shwartz | FSW43 | 100646 | 11/02/2021 | 11/02/2022 |

Software Utilized:

| Name | Manufacturer | Version |
|---------|--------------|-----------|
| BAT-EMC | Nexio | 3.18.0.16 |

11.3 Results:

The sample tested was found to Comply. Where a resolution bandwidth of less than 1 MHz was used (in some cases, 120 kHz or 100 kHz), more than 10 dB margin to the limit is shown. Since the two antenna ports transmit uncorrelated data streams and use cross polarized antennas, no adjustments to the test results were applied due to MIMO operation, per KDB 662911.

§24.238(a): 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.

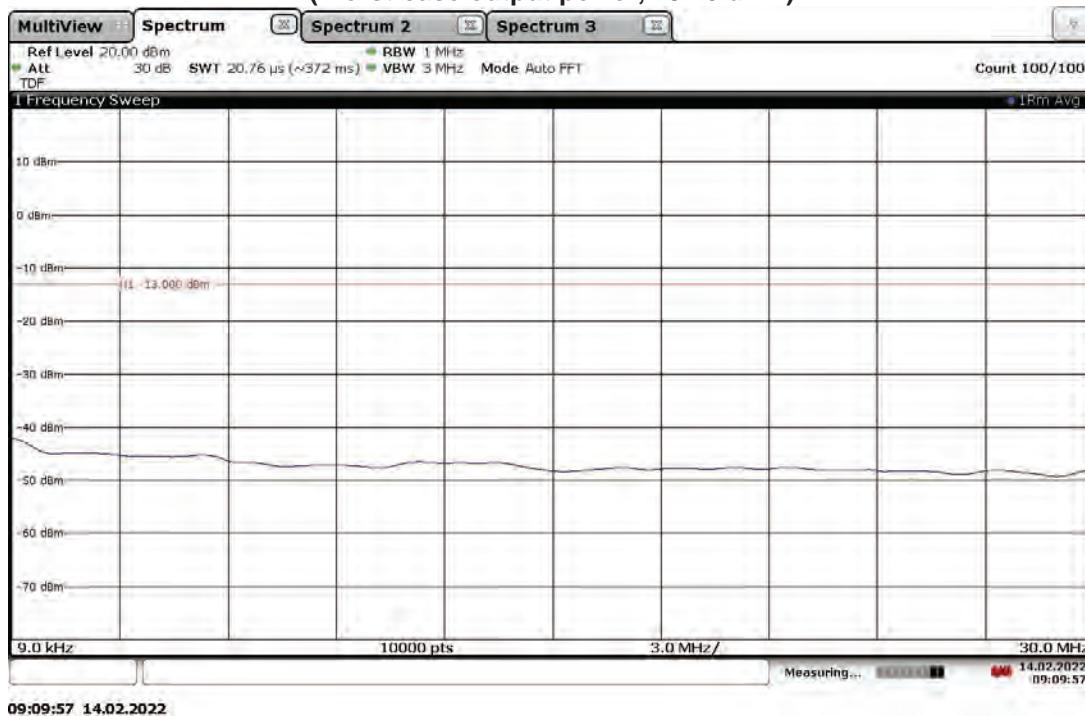
(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

11.4 Setup Photographs:

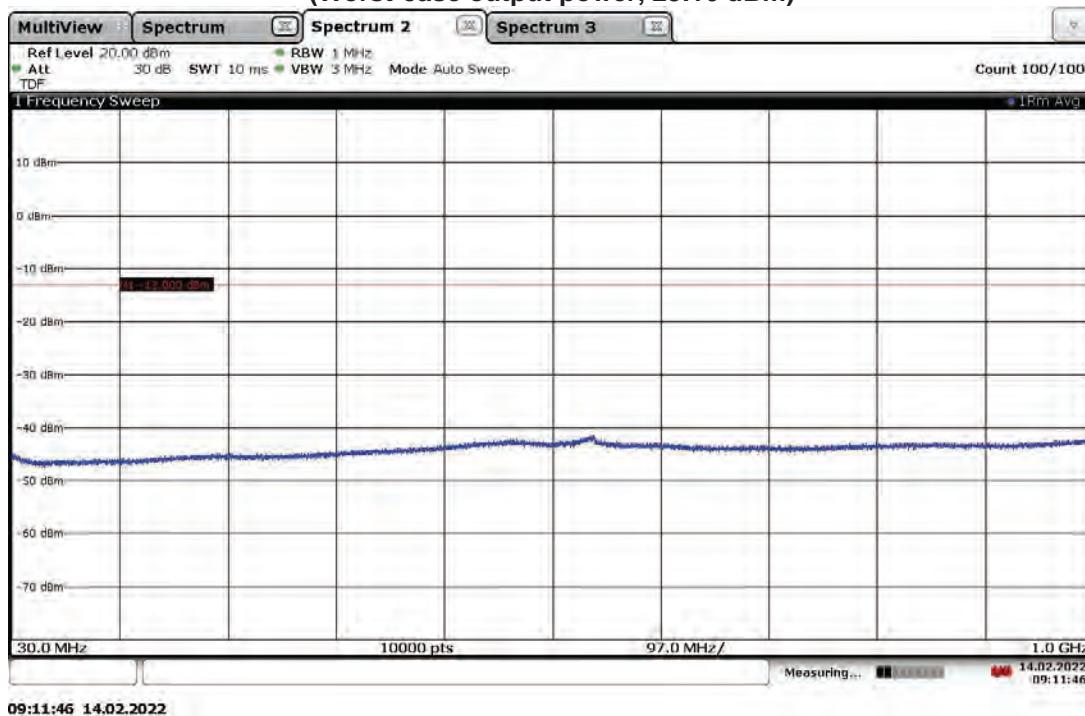
Confidential – Photos not included in this report

11.5 Plots/Data:

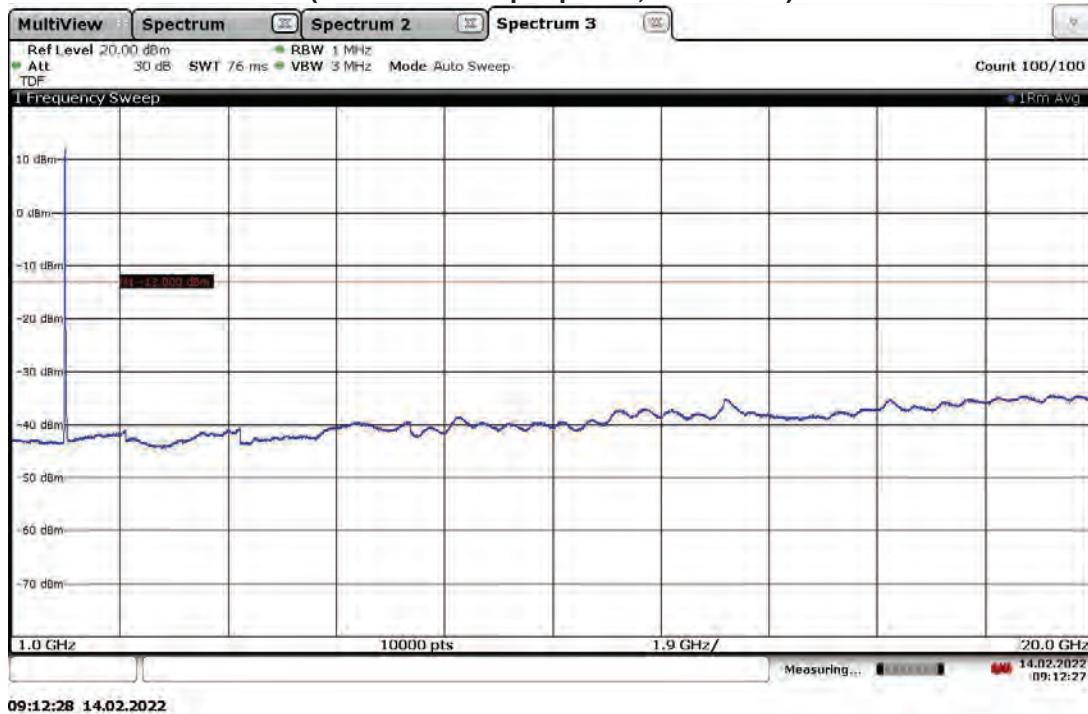
**Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)**



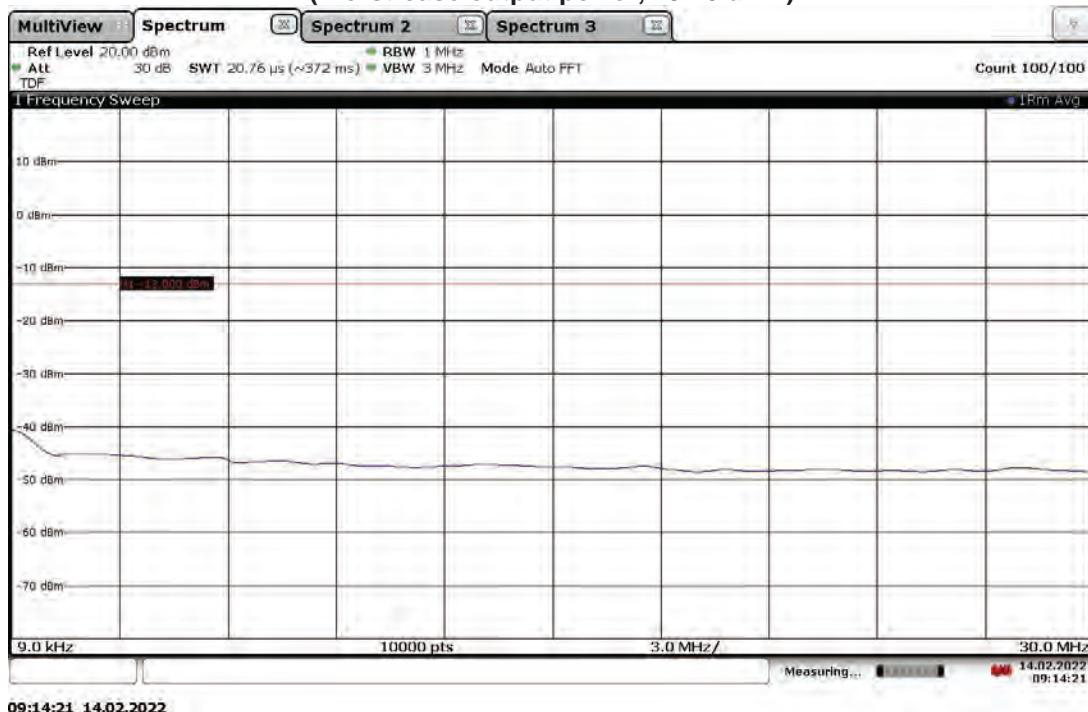
**Antenna Port (ANT0) Conducted Emissions, 30-1000 MHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)**



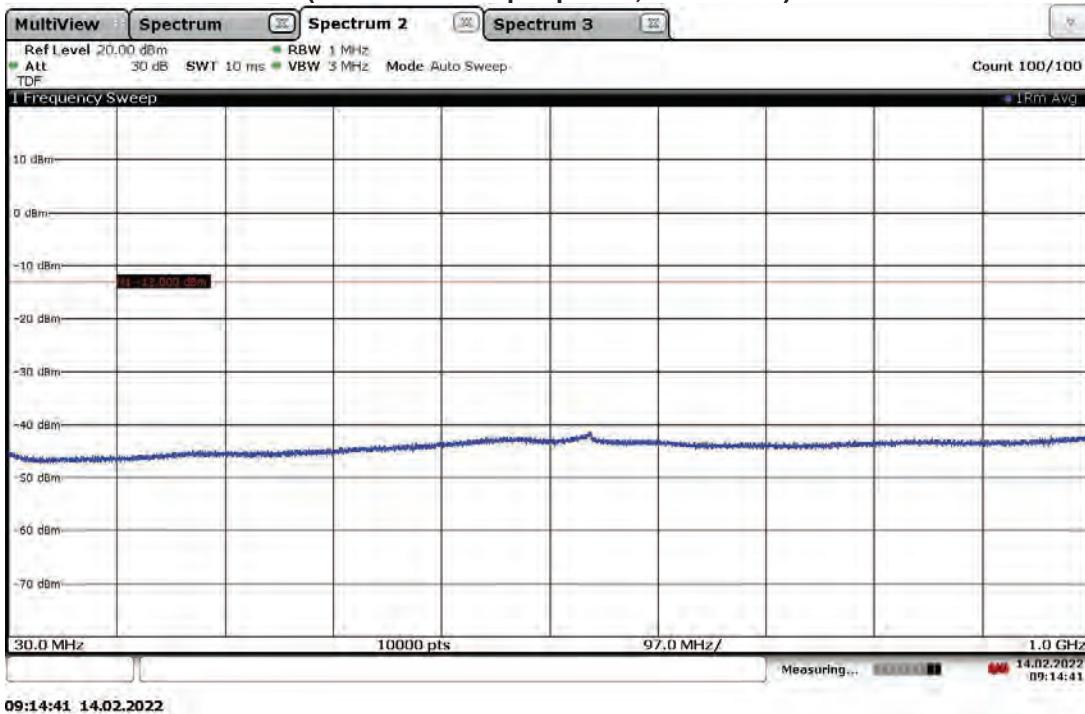
Antenna Port (ANT0) Conducted Emissions, 1-20 GHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)



Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz
Band 25 (4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)

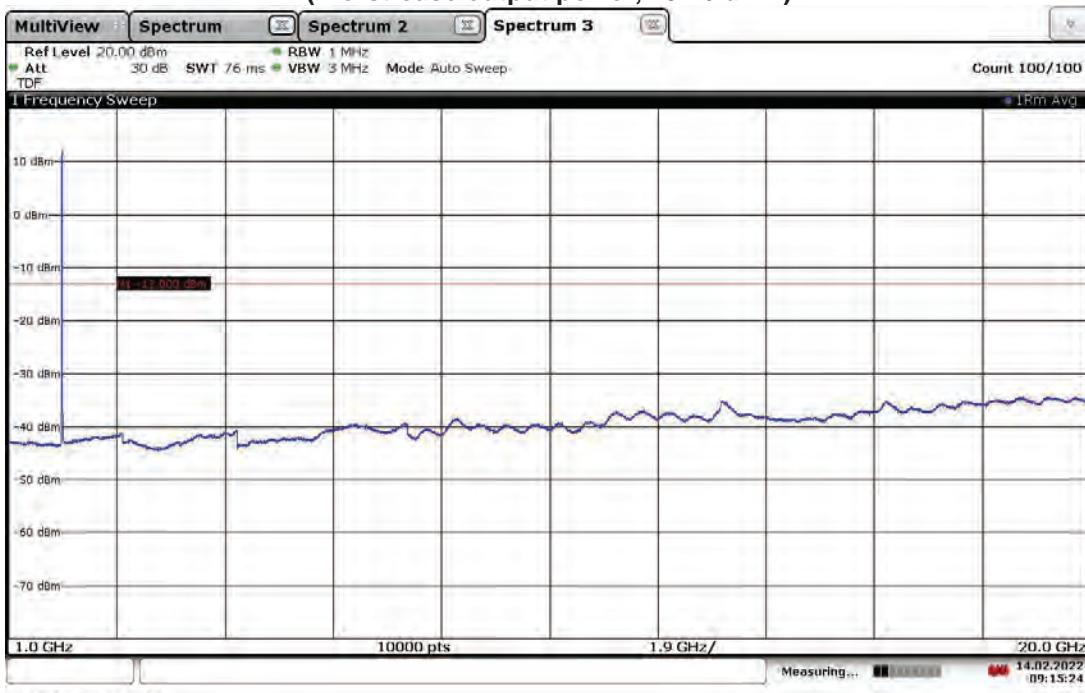


Antenna Port (ANT1) Conducted Emissions, 30-1000 MHz
Band 25 (4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)



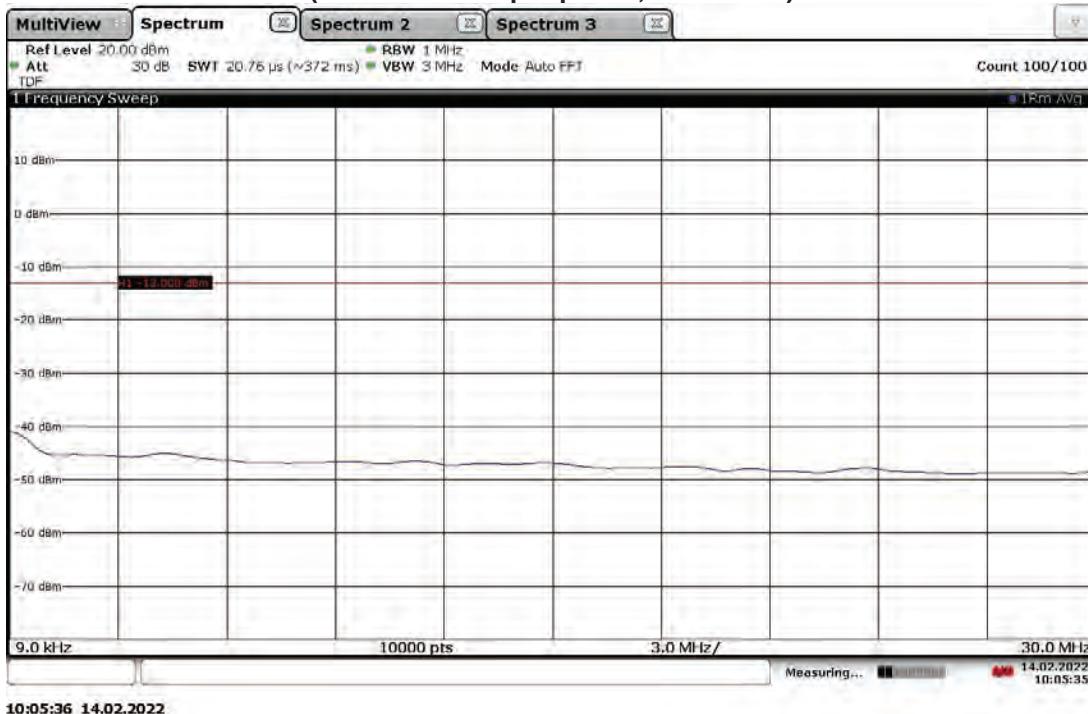
09:14:41 14.02.2022

Antenna Port (ANT1) Conducted Emissions, 1-20 GHz
Band 25 (4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)

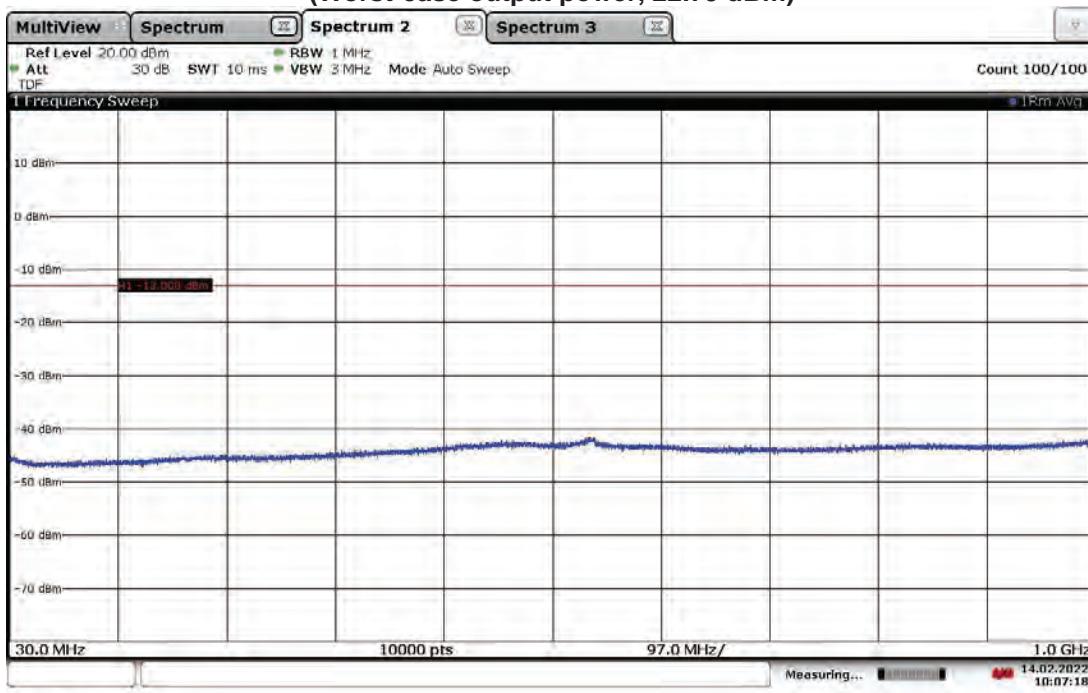


09:15:24 14.02.2022

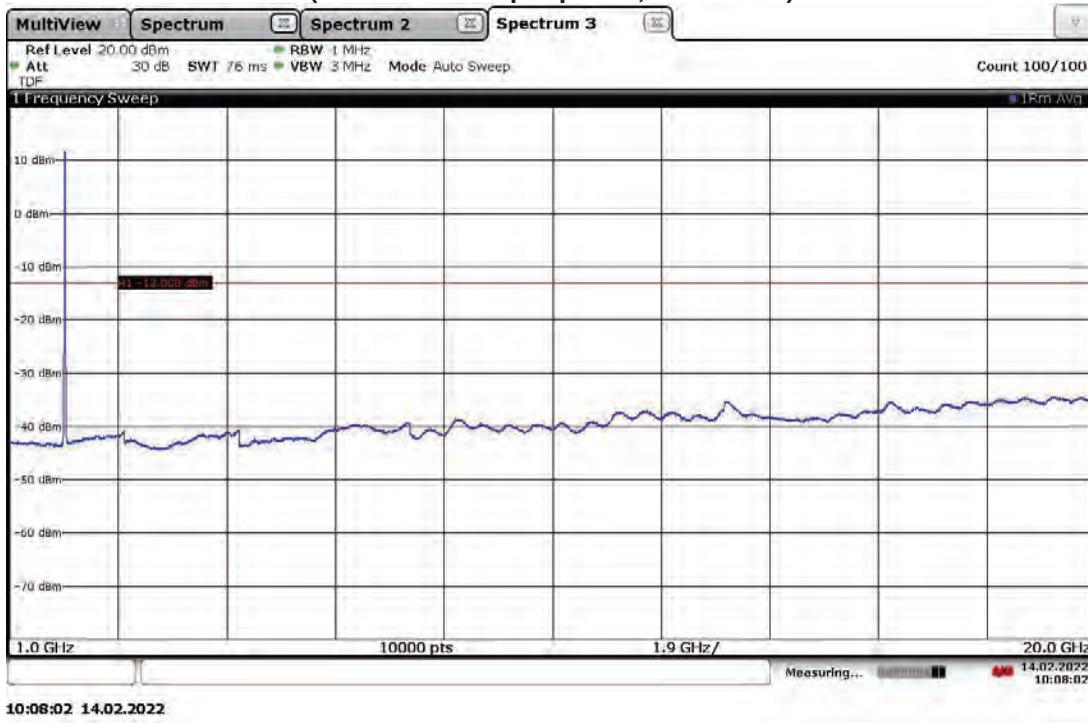
**Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)**



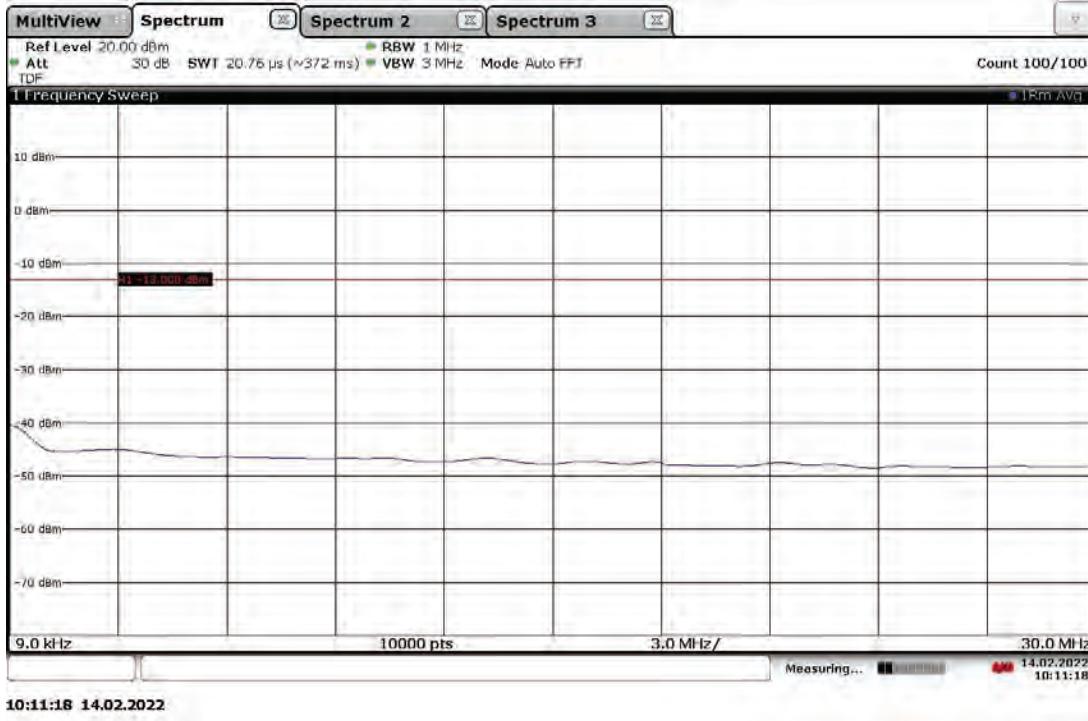
**Antenna Port (ANT0) Conducted Emissions, 30 MHz-1000 MHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)**



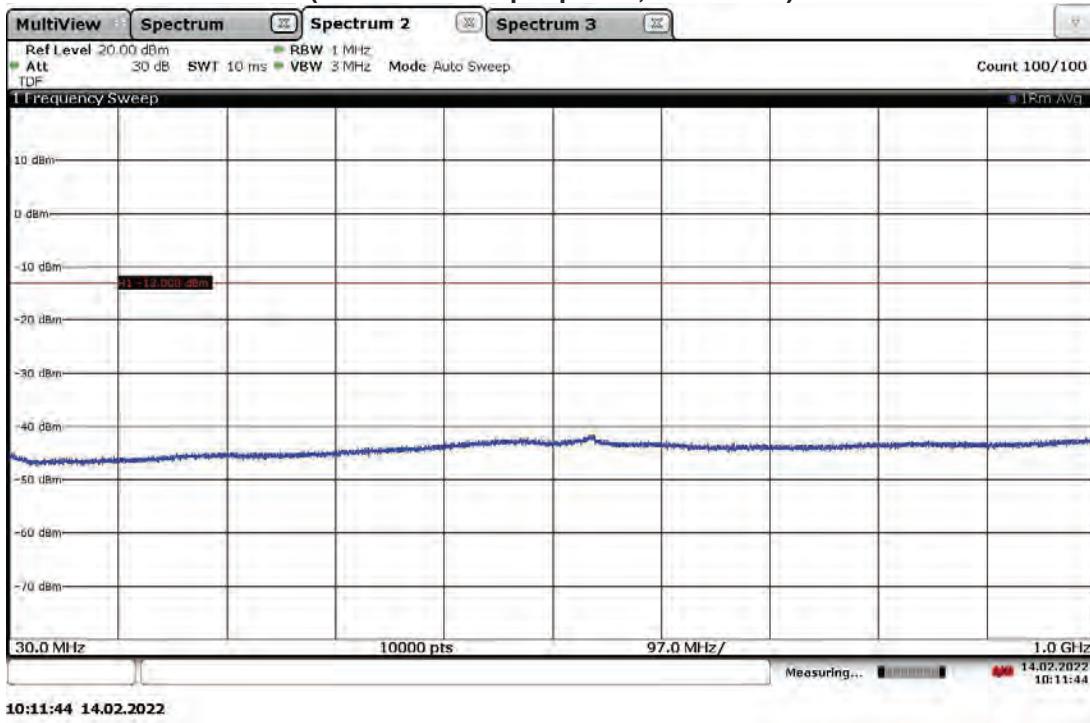
Antenna Port (ANT0) Conducted Emissions, 1-20 GHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)



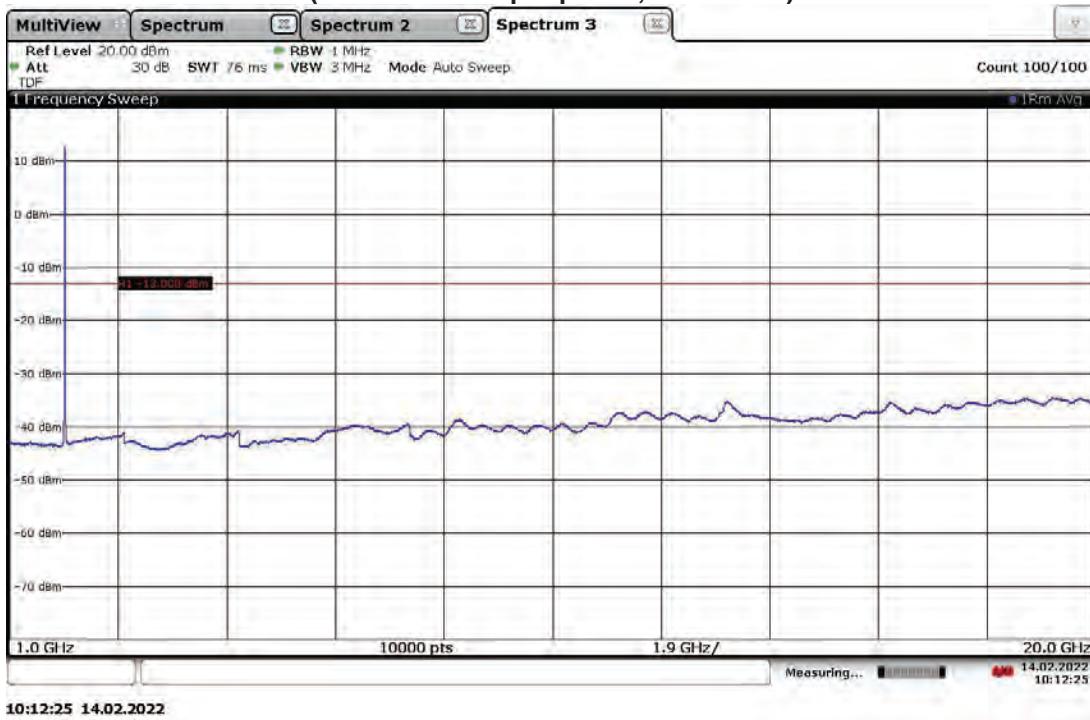
Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)



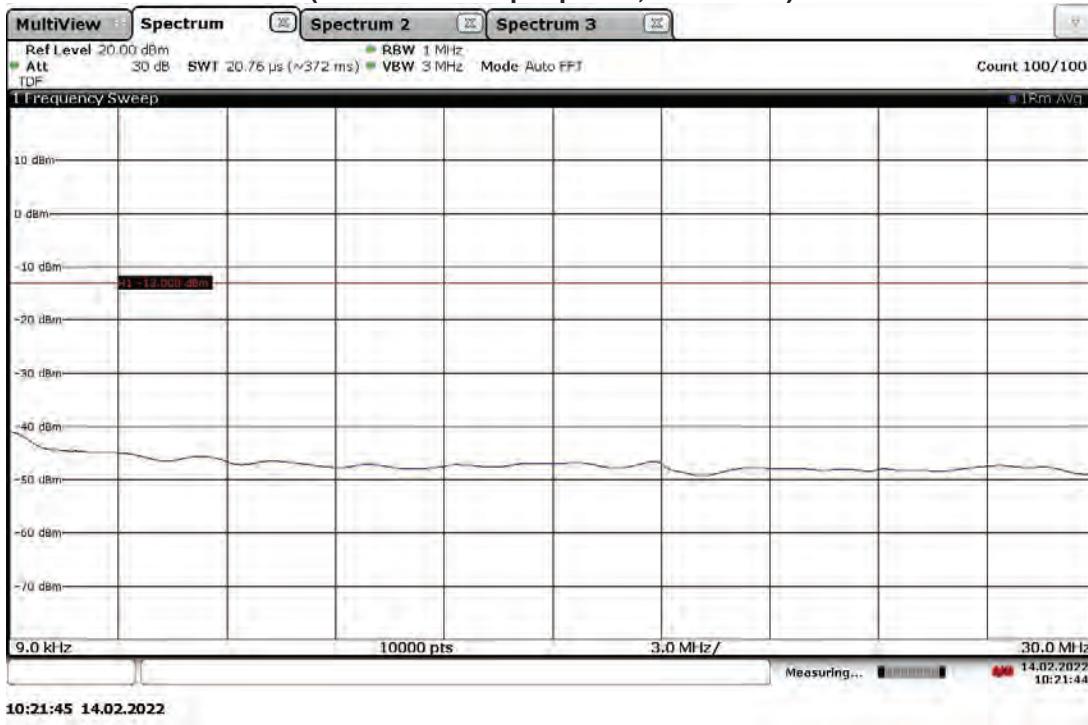
Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)



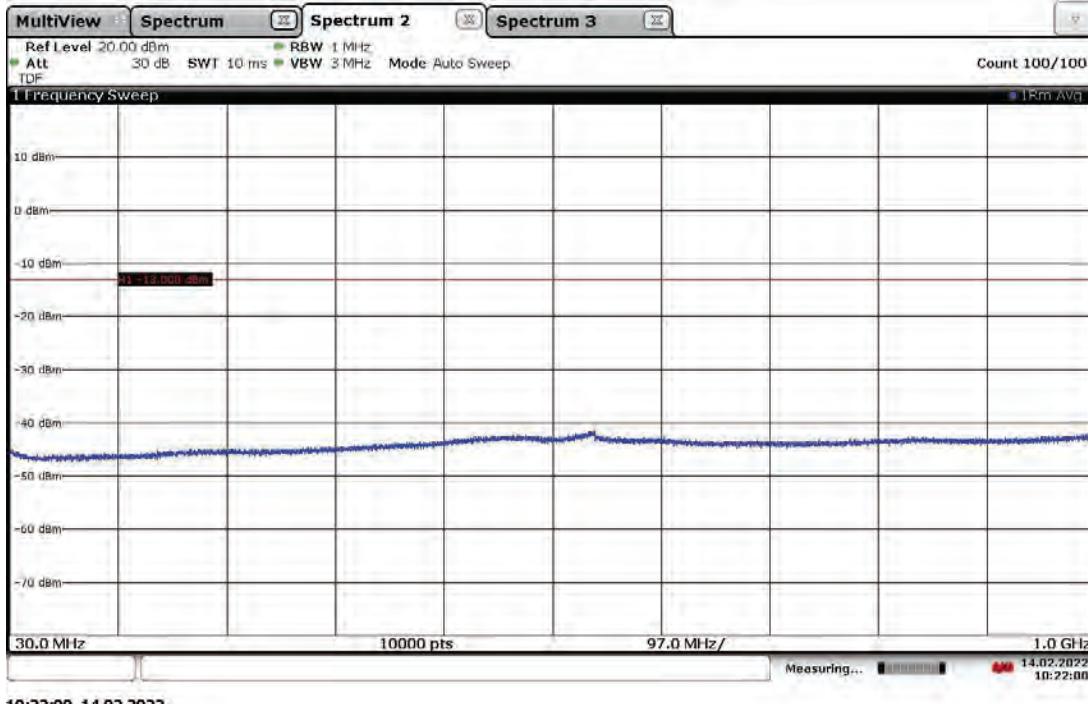
Antenna Port (ANT1) Conducted Emissions, 1-20 GHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)



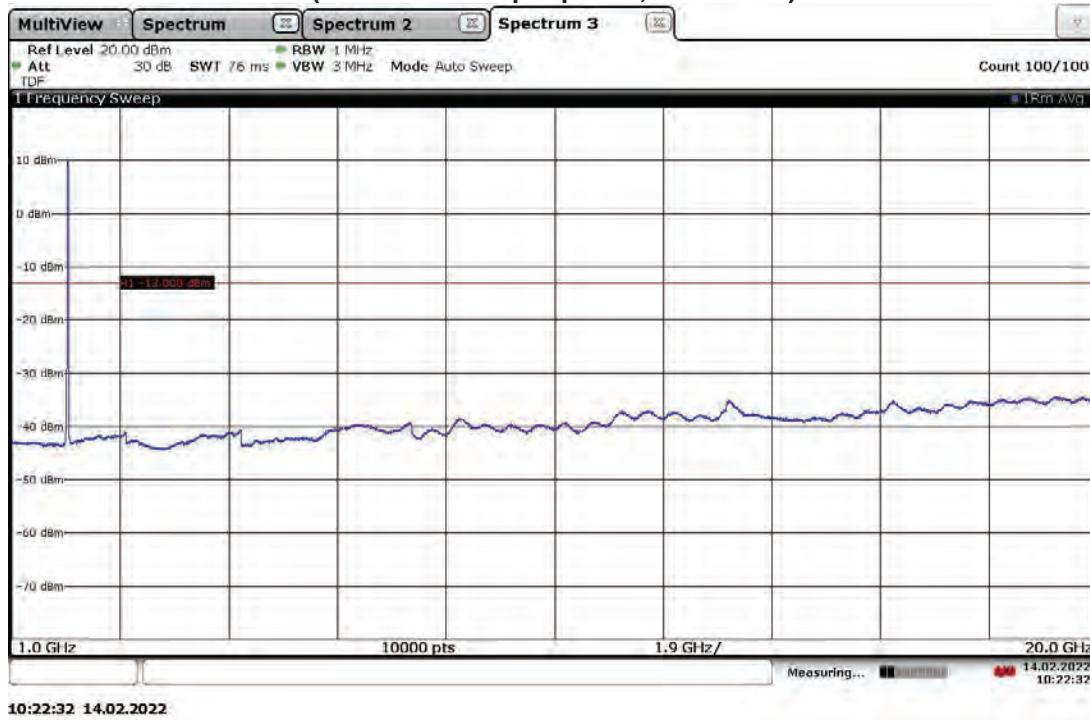
**Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)**



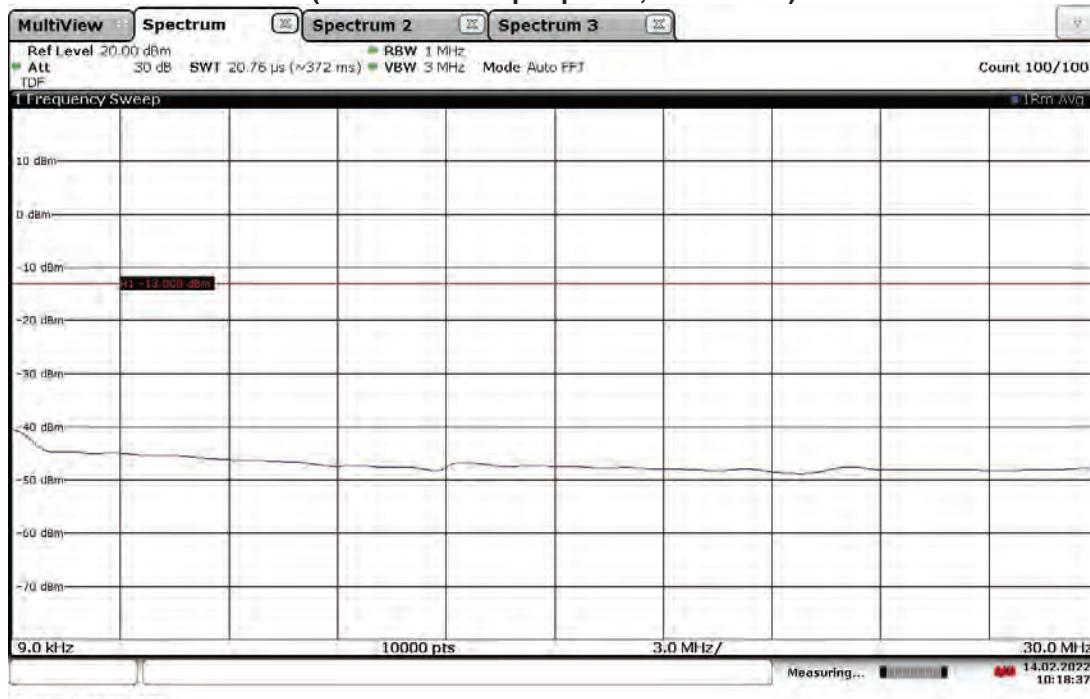
**Antenna Port (ANT0) Conducted Emissions, 30 MHz-1 GHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)**



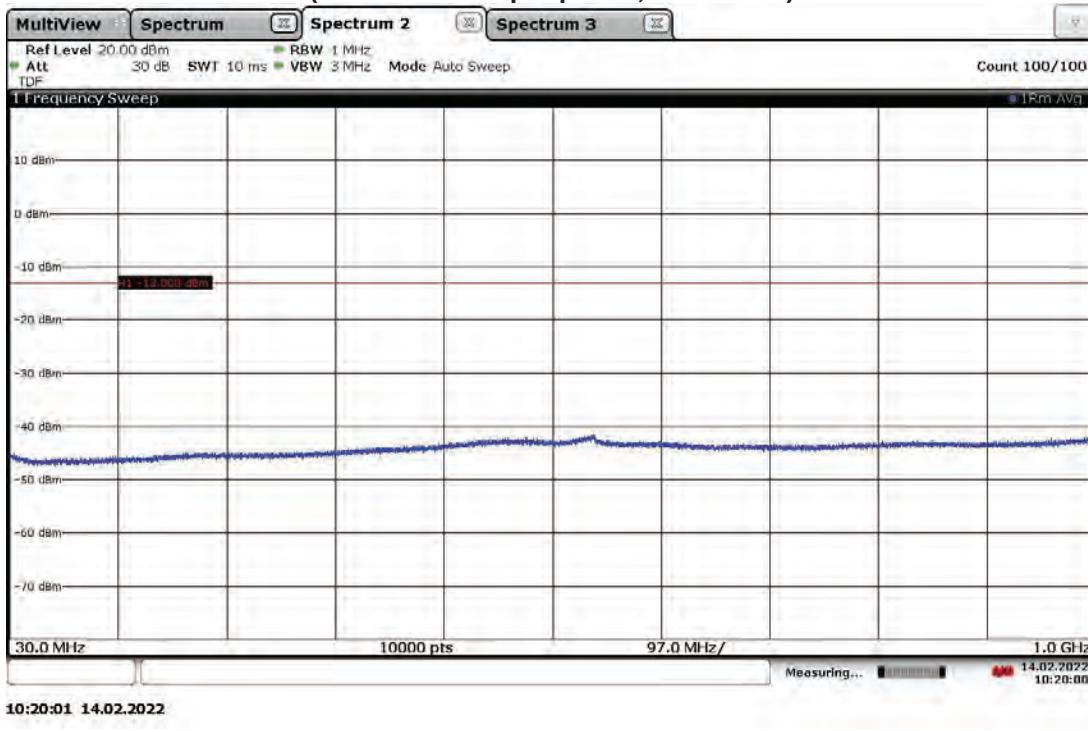
Antenna Port (ANT0) Conducted Emissions, 1-20 GHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)



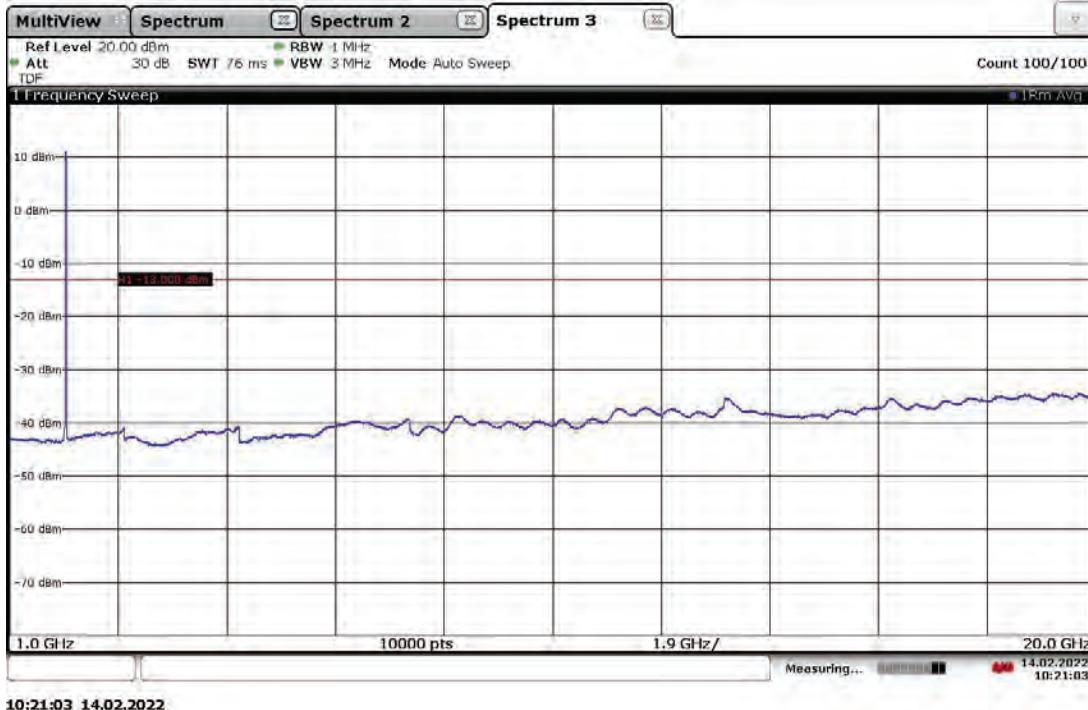
Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)



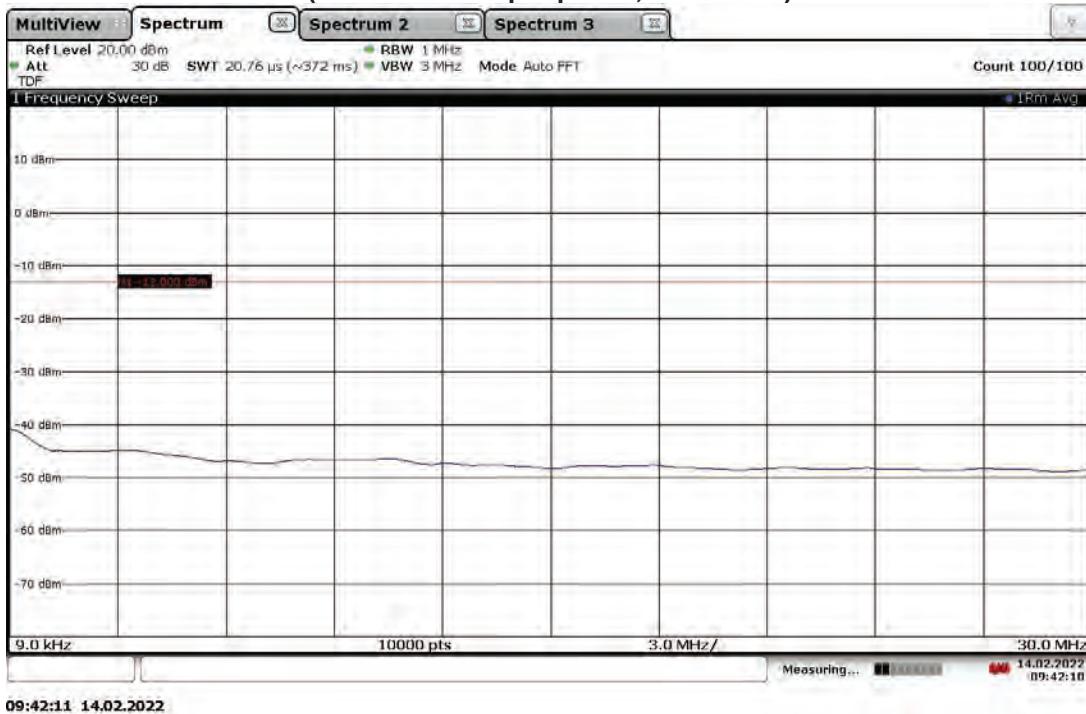
**Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)**



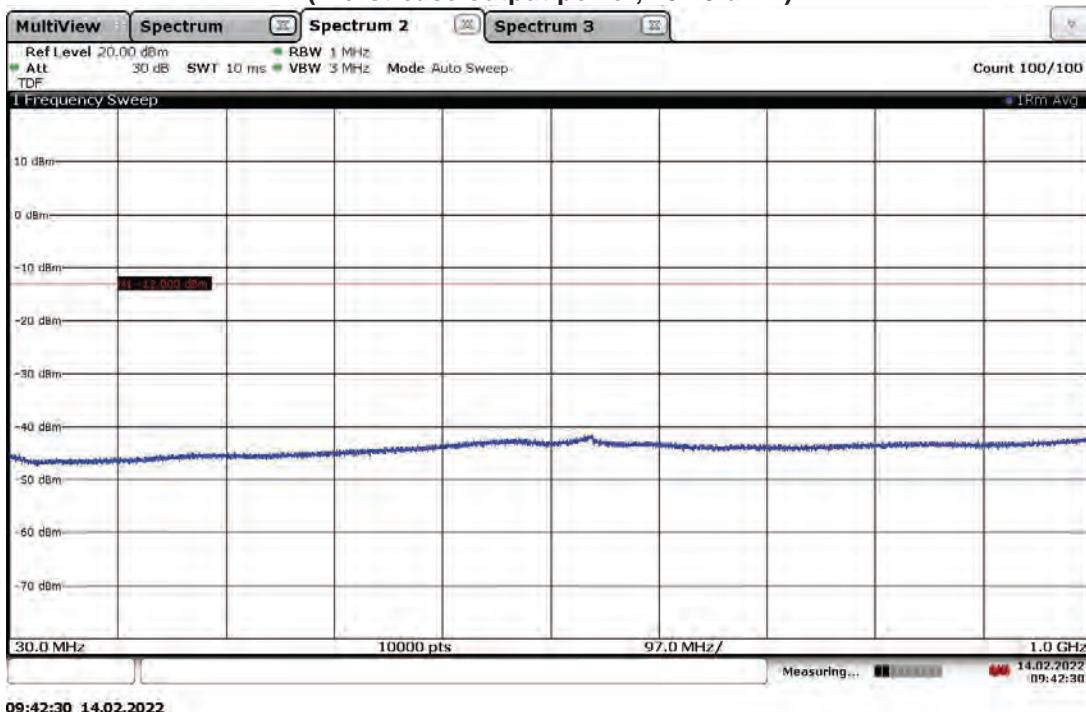
**Antenna Port (ANT1) Conducted Emissions, 1-20 GHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)**



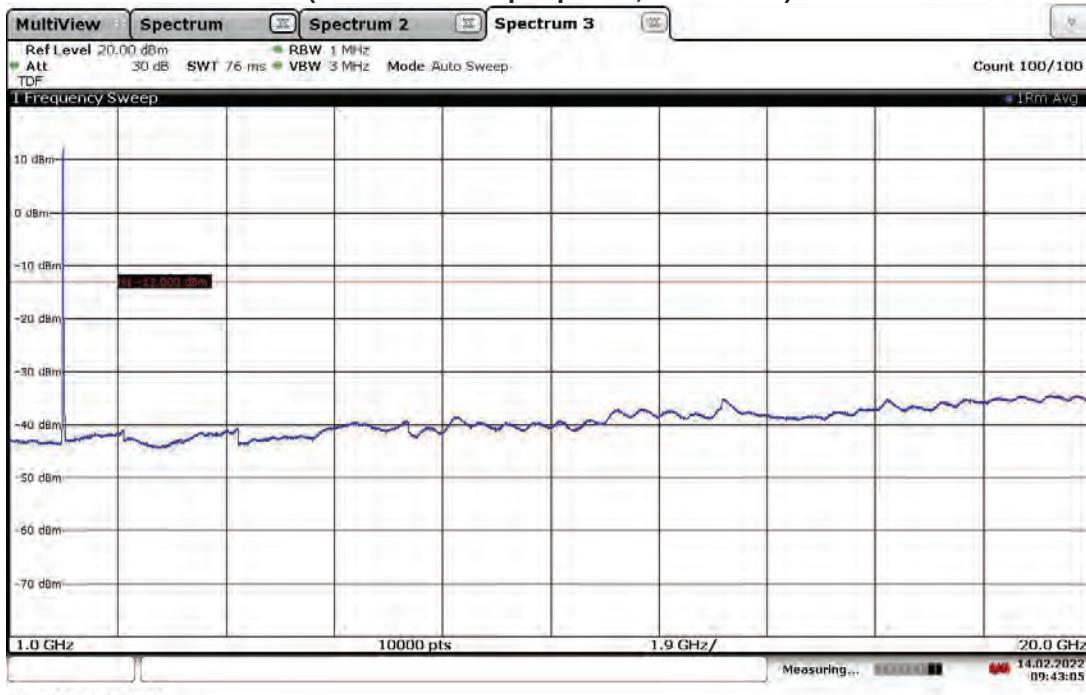
**Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)**



**Antenna Port (ANT0) Conducted Emissions, 30-1000 MHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)**

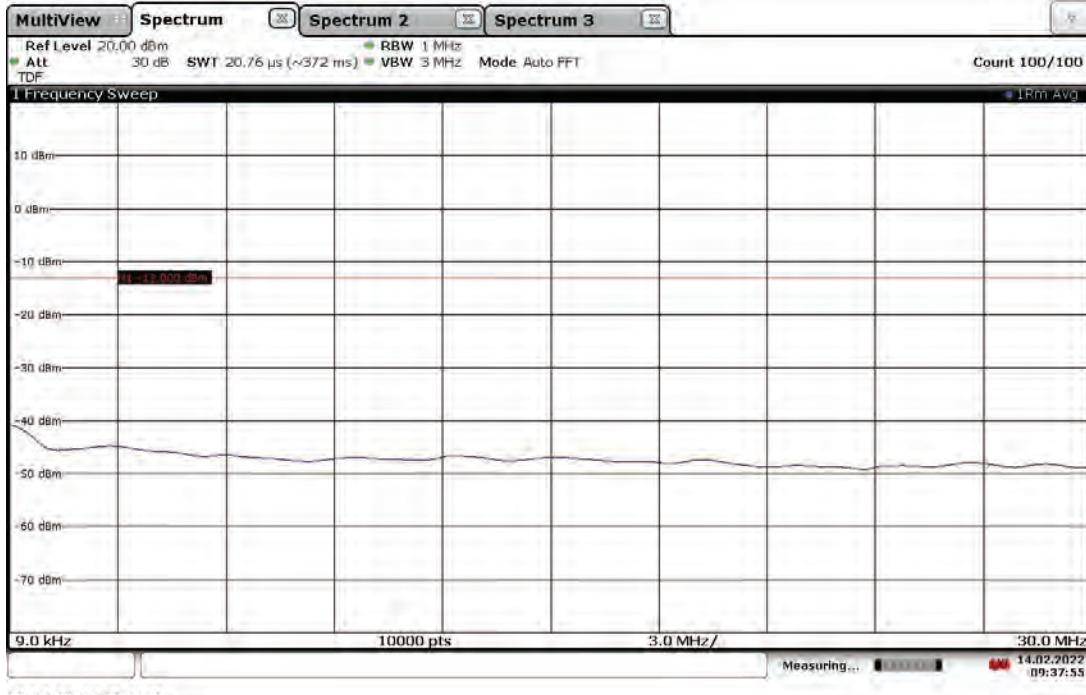


Antenna Port (ANT0) Conducted Emissions, 1-20 GHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)



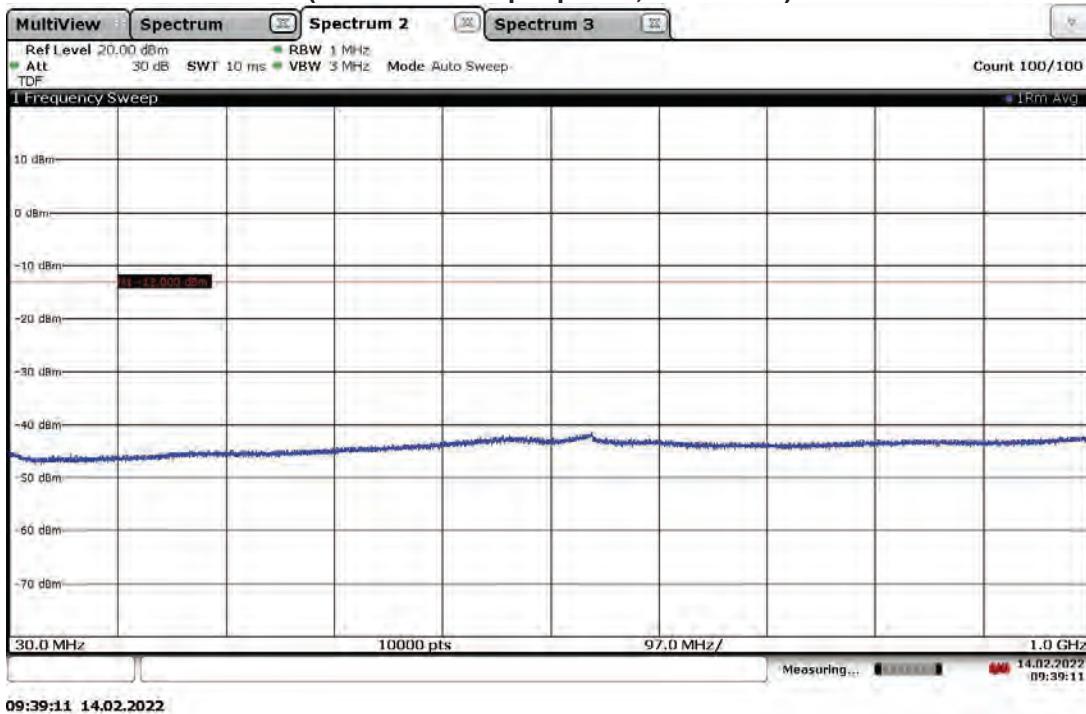
09:43:05 14.02.2022

Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)

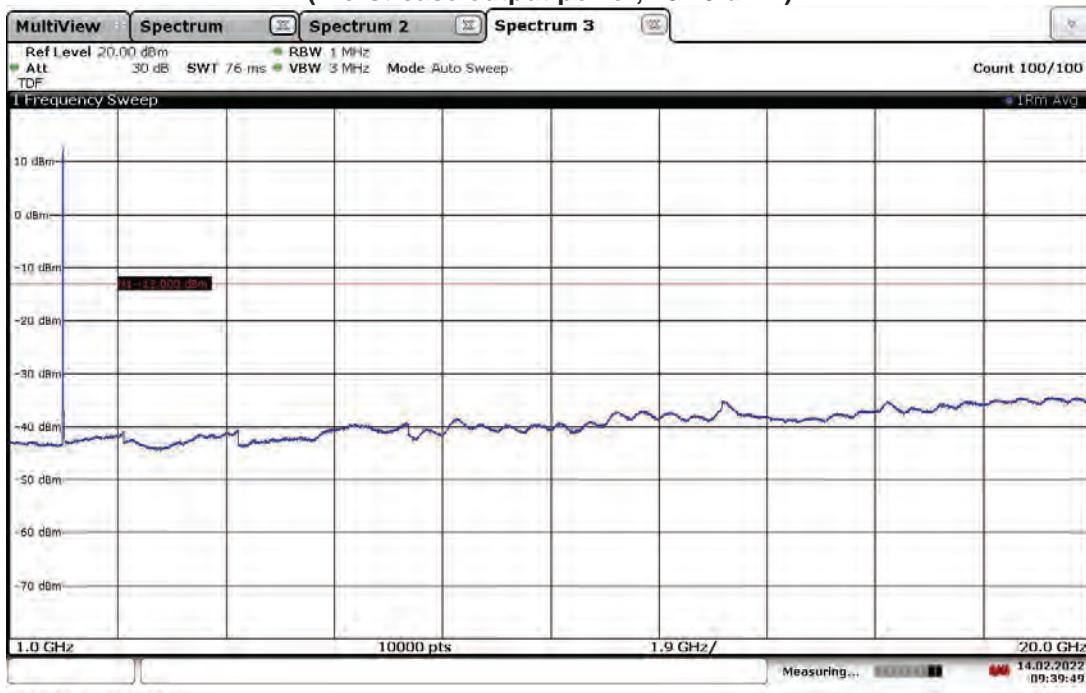


09:37:55 14.02.2022

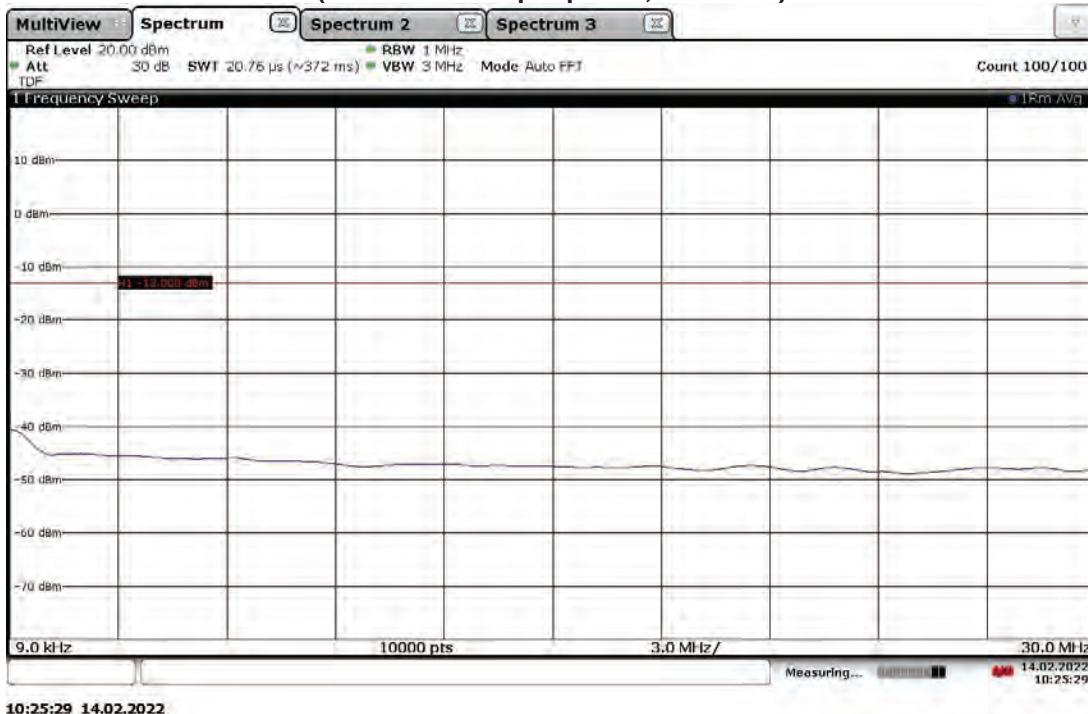
**Antenna Port (ANT1) Conducted Emissions, 30-1000 MHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)**



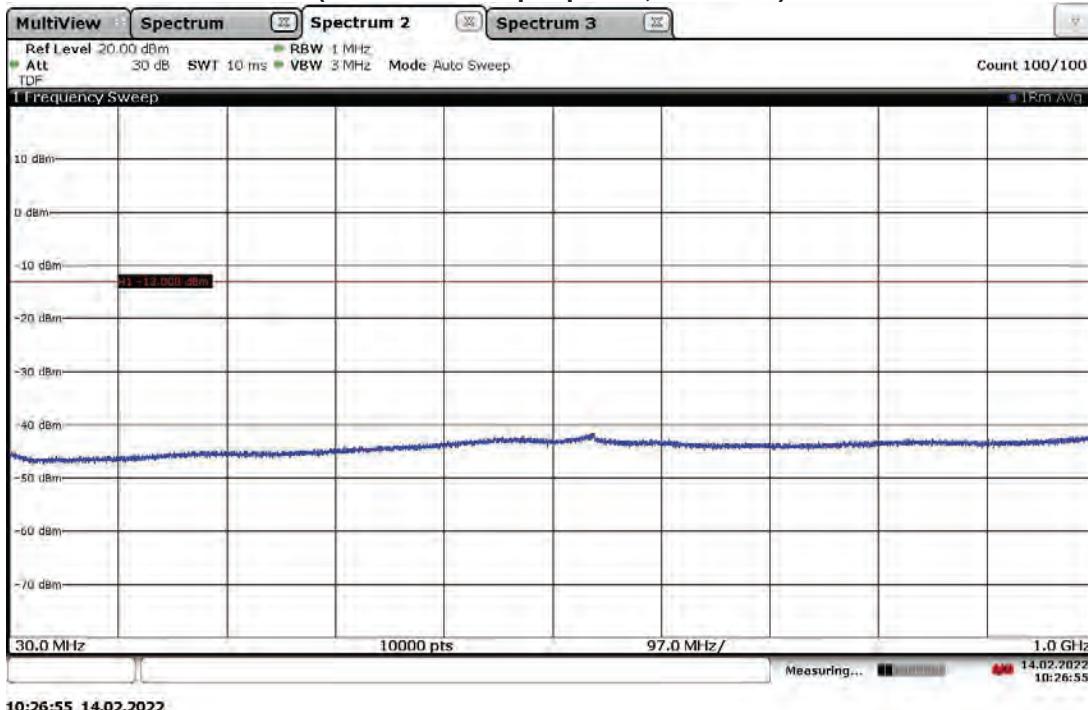
**Antenna Port (ANT1) Conducted Emissions, 1-20 GHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)**



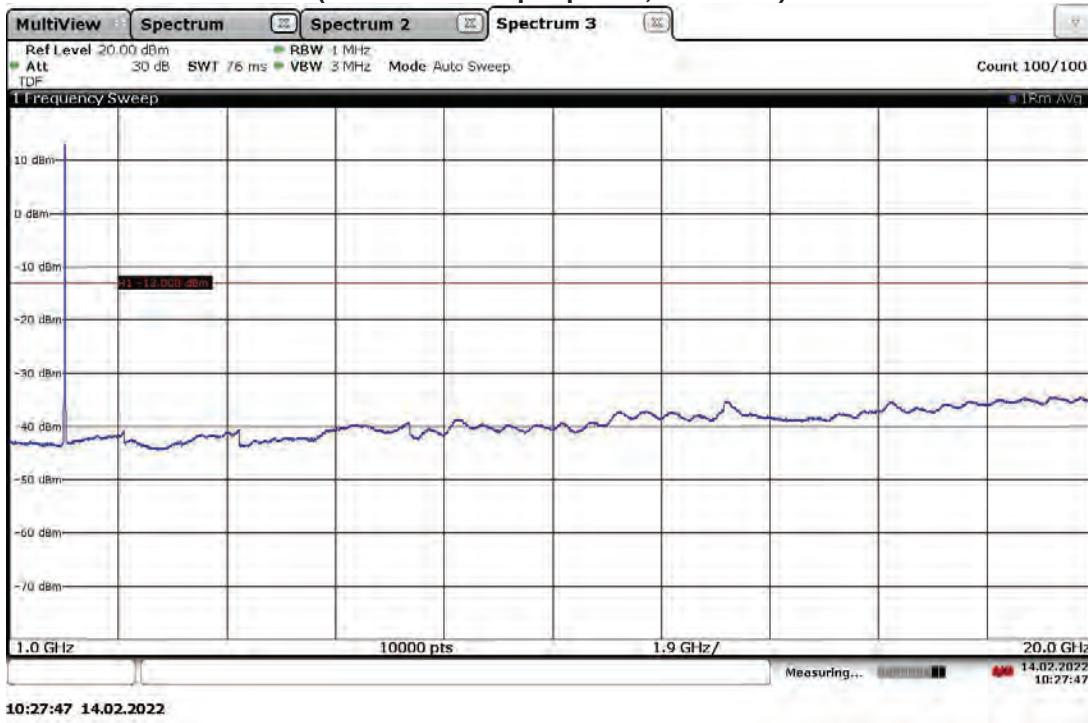
Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.1 dBm)



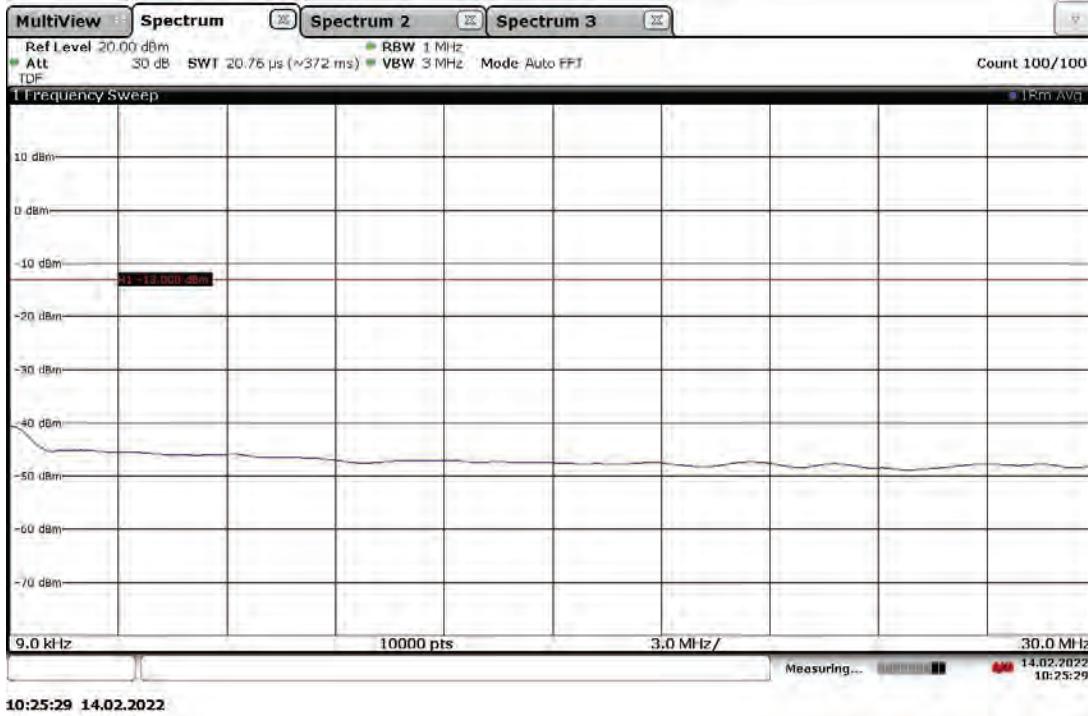
Antenna Port (ANT0) Conducted Emissions, 30 MHz-1 GHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.1 dBm)



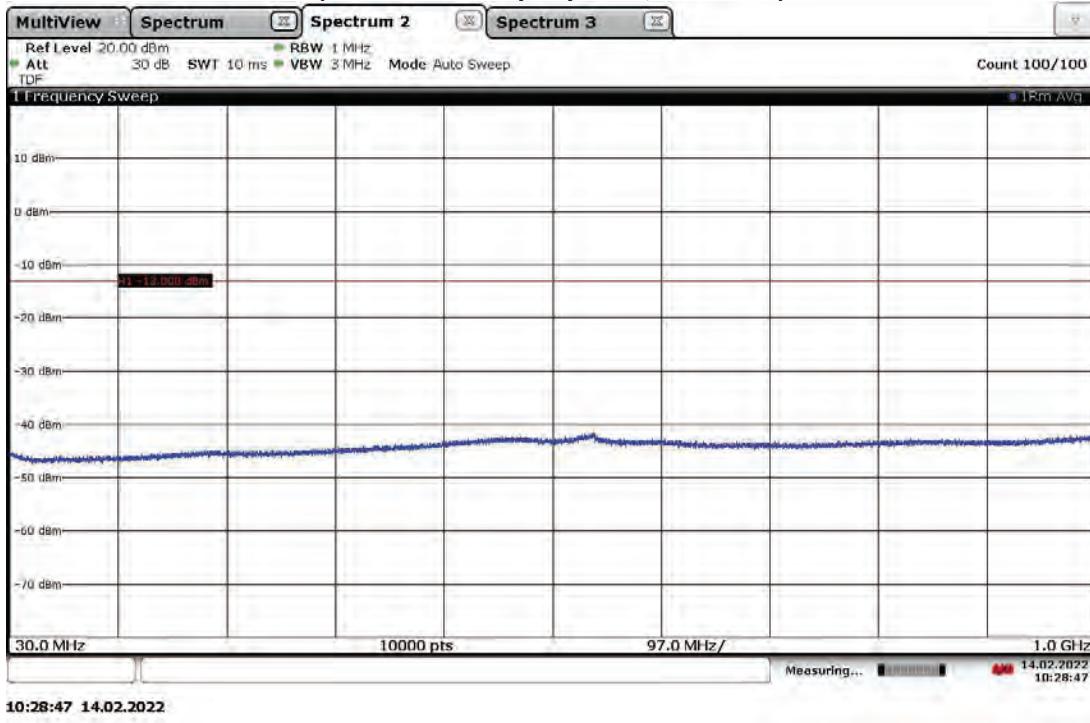
Antenna Port (ANT0) Conducted Emissions, 1-20 GHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.1 dBm)



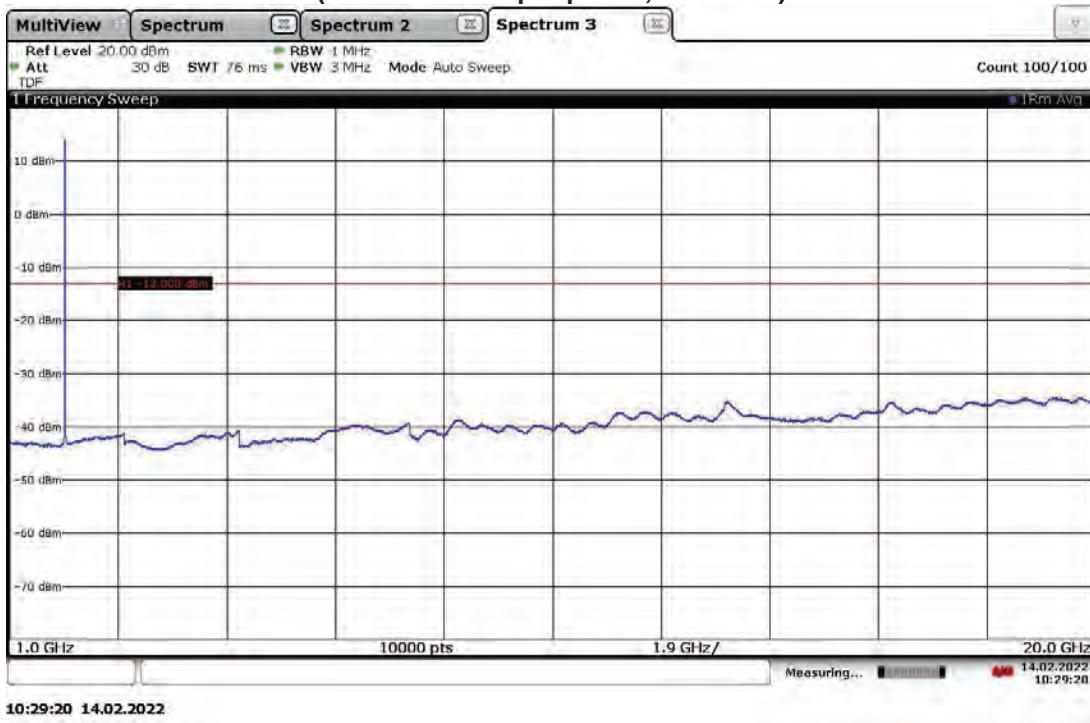
Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.1 dBm)



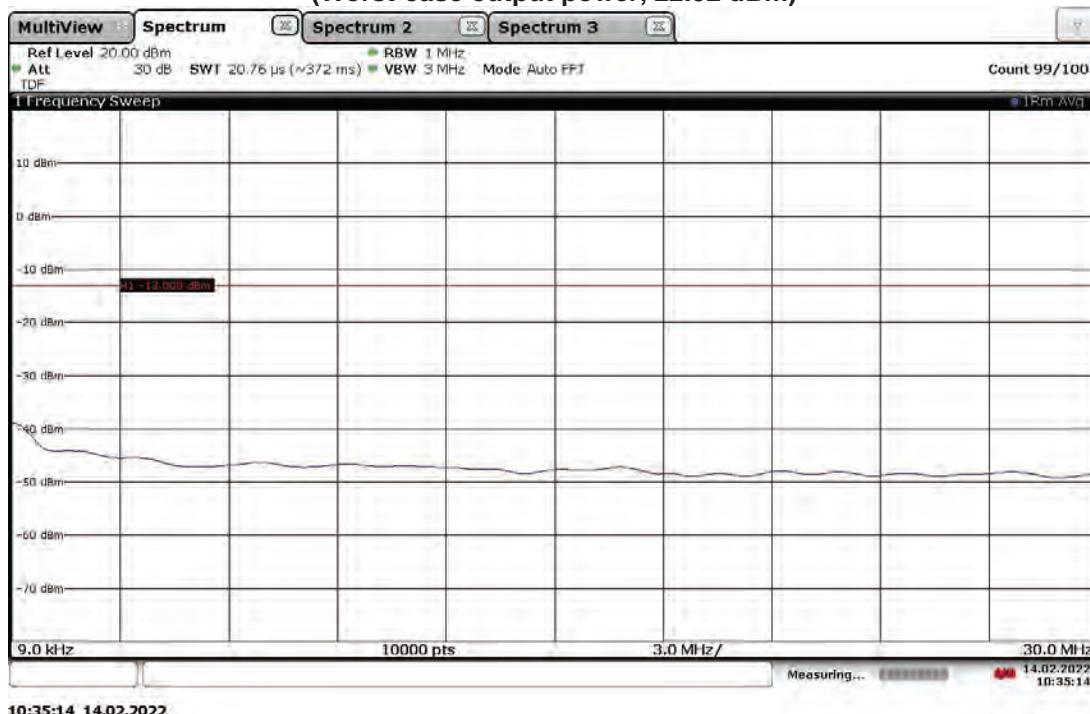
**Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.1 dBm)**



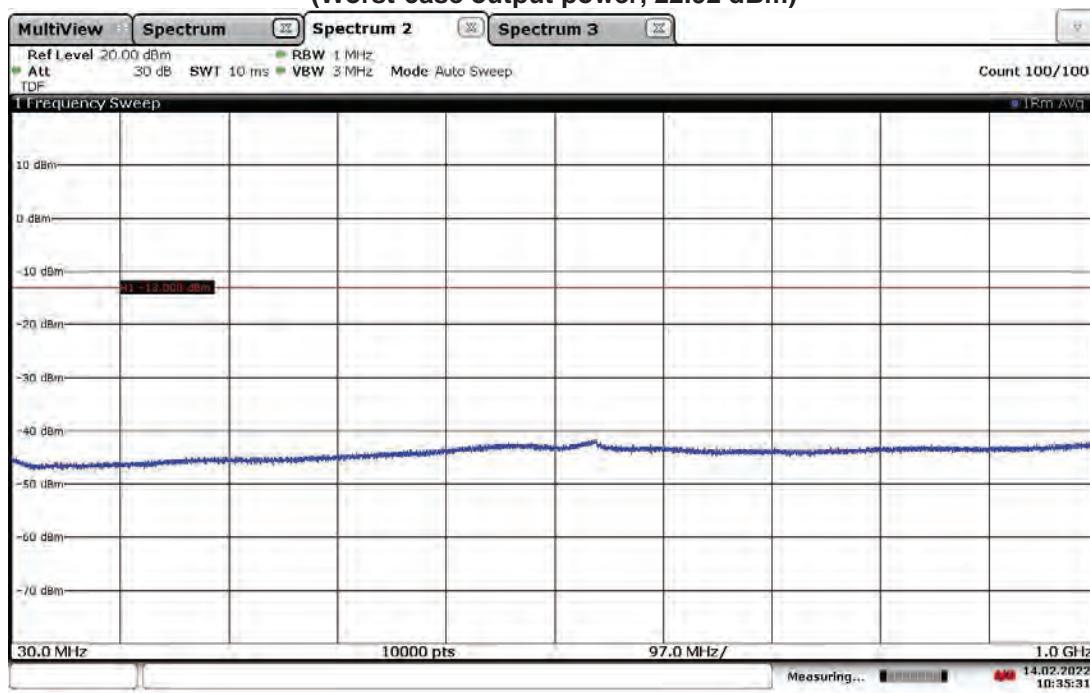
**Antenna Port (ANT1) Conducted Emissions, 1-20 GHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.1 dBm)**



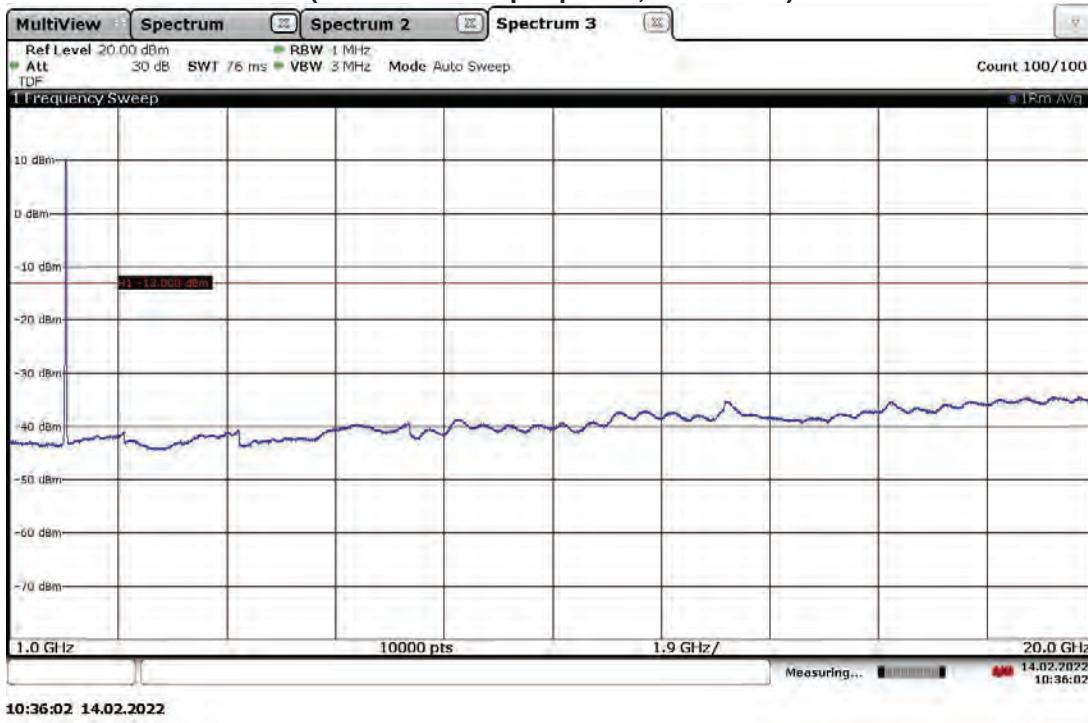
**Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)**



**Antenna Port (ANT0) Conducted Emissions, 30 MHz-1 GHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)**

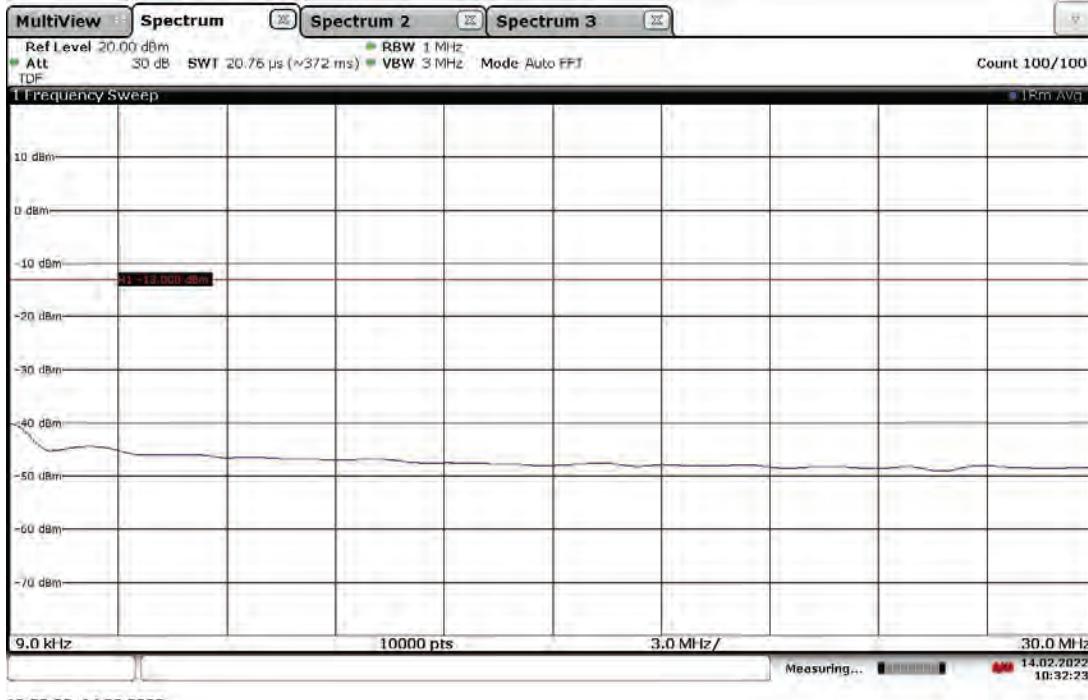


**Antenna Port (ANT0) Conducted Emissions, 1-20 GHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)**



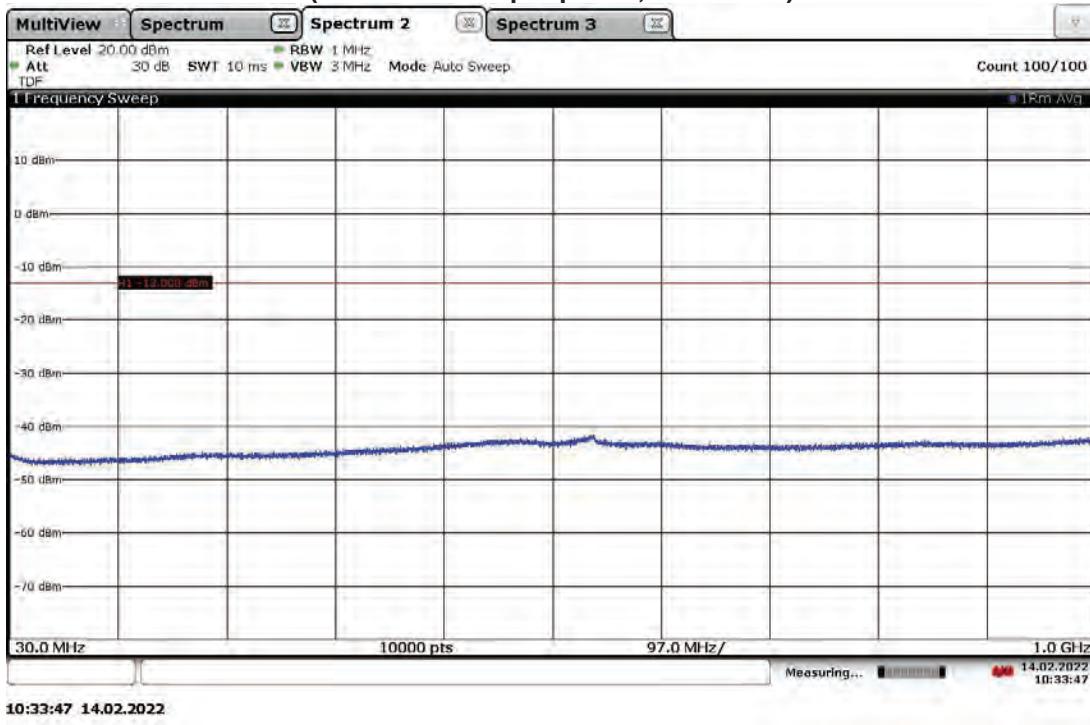
10:36:02 14.02.2022

**Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)**

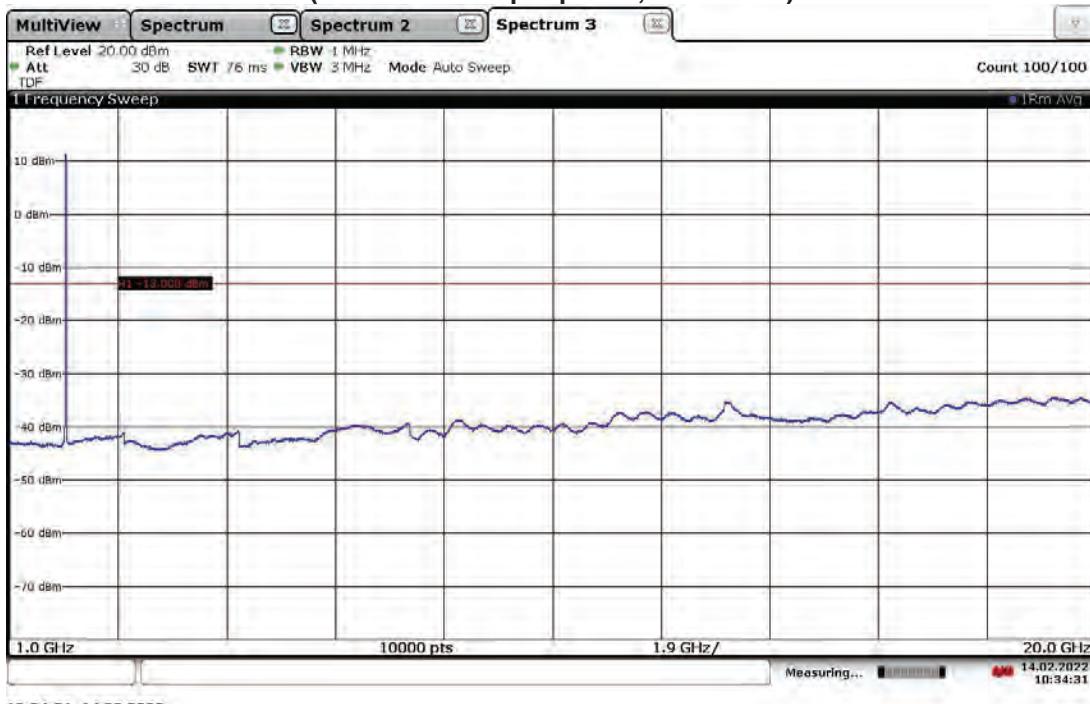


10:32:23 14.02.2022

**Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)**



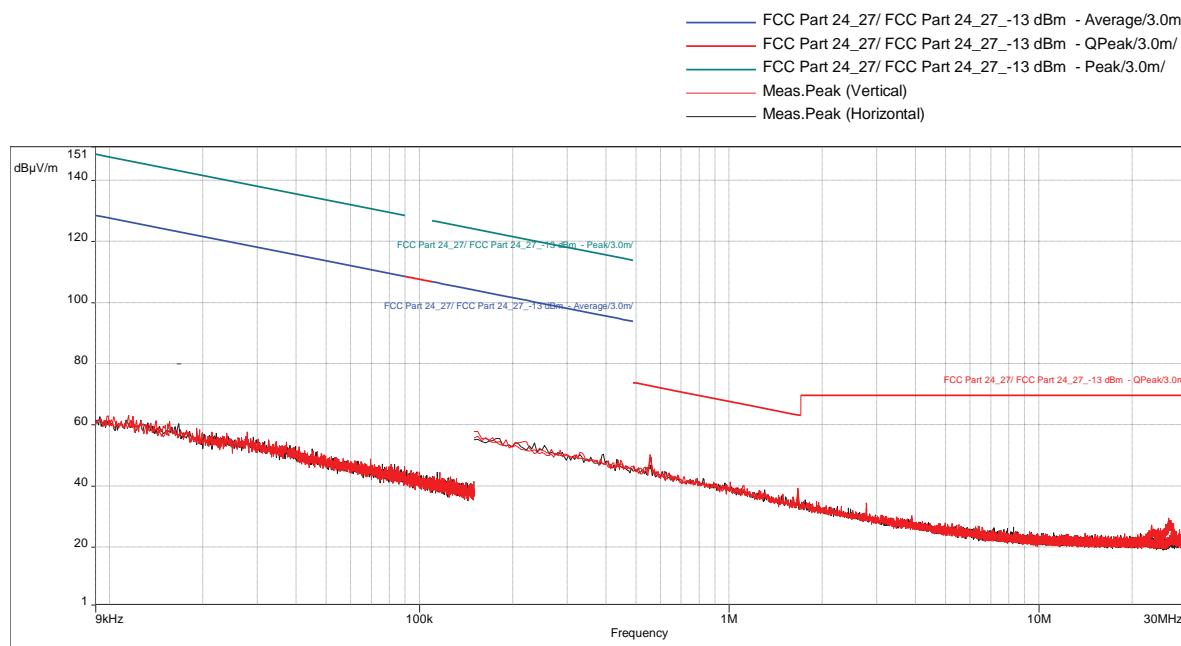
**Antenna Port (ANT1) Conducted Emissions, 1-20 GHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)**



Radiated Emissions, 9 kHz-30 MHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/16/2022 6:22:07 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 25 C |
| Humidity | 14 % |
| Atmospheric Pressure | 1022 mbar |
| Comments | Scan 1: Band 25(4G LTE), Low Cjh. 1937.5MHz, 15MHz BW, 16QAM Mod, (worst-case output pwr 23.16 dBm) RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC Part 18) |

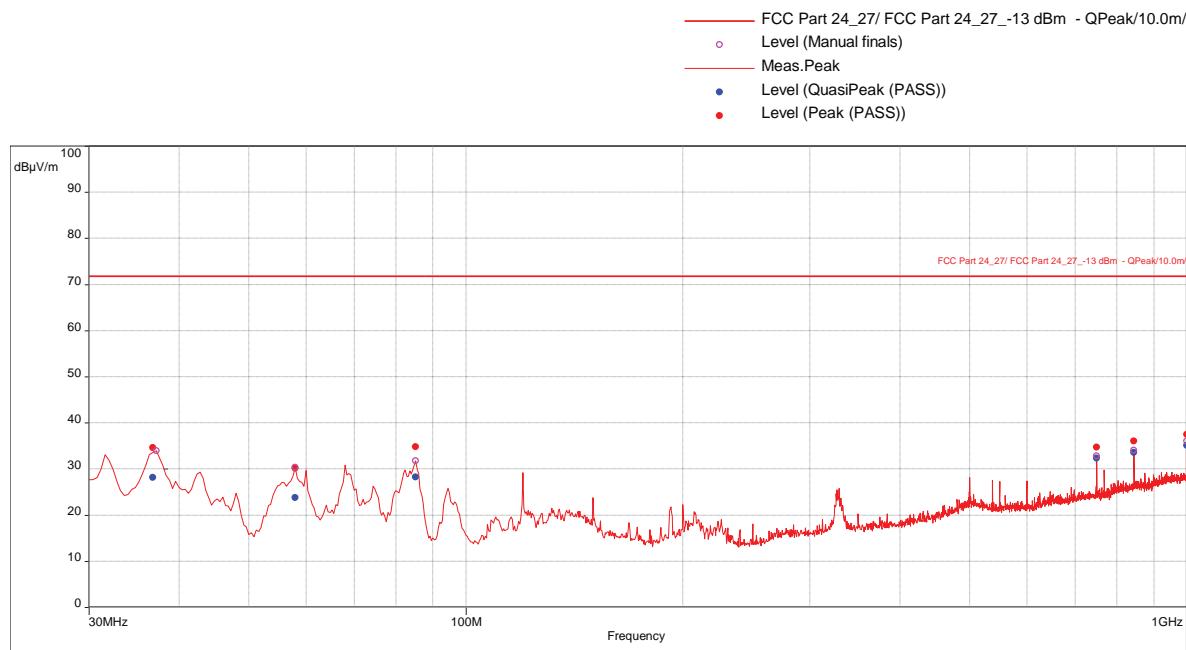
Graph:

Results: No emission was detected.

Radiated Emissions, 30-1000 MHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/7/2022 7:35:48 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 24 C |
| Humidity | 22 % |
| Atmospheric Pressure | 1011 mbar |
| Comments | Scan 1: Band 25 & 25 (4G LTE), Low 1937.5MHz, 15MHz-16QAM (Worst-case output power, 23.16 dBm), RE 30-1000MHz SA mode |

Graph:**Results:**

EIRP Peak (PASS) (6)

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 36.94736842 | 34.56 | -50.14 | -13 | -37.14 | 140.00 | 2.78 | Vertical | 1200000.00 | -17.06 |
| 57.90526316 | 30.11 | -54.59 | -13 | -41.59 | 0.00 | 2.24 | Vertical | 1200000.00 | -25.81 |
| 85.38947368 | 34.79 | -49.91 | -13 | -36.91 | 234.00 | 2.23 | Vertical | 1200000.00 | -25.31 |
| 750 | 34.72 | -49.98 | -13 | -36.98 | 213.00 | 3.90 | Horizontal | 1200000.00 | -8.57 |
| 844.8 | 36.02 | -48.68 | -13 | -35.68 | 148.00 | 1.40 | Horizontal | 1200000.00 | -6.69 |
| 1000 | 37.48 | -47.22 | -13 | -34.22 | 132.00 | 1.00 | Horizontal | 1200000.00 | -4.73 |

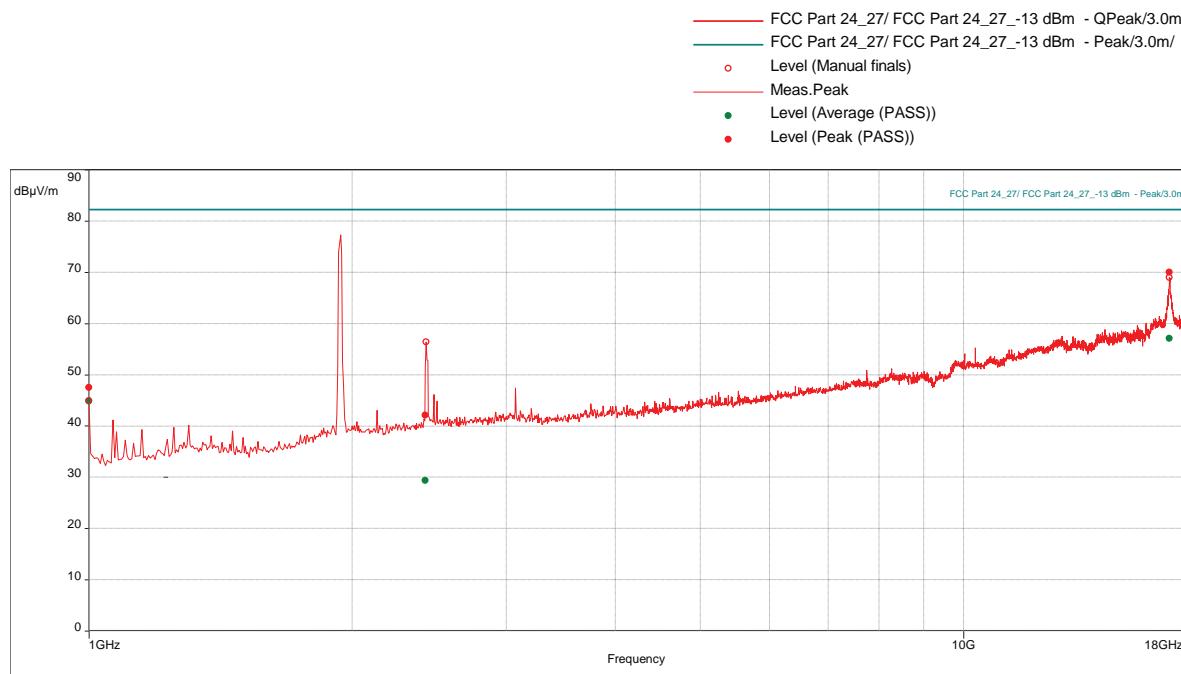
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP \text{ (dBm)} = E \text{ Peak (dBμV/m)} + 20 \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 1-18 GHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/8/2022 8:25:04 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 19: Band 25 and 25 (4G LTE), Low 1937.5MHz, 15MHz-16QAM (Worst-case output power, 23.16dBm), RE 1-18 GHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (3)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 1000 | 47.52 | -47.68 | -13 | -34.68 | 133.00 | 1.07 | Horizontal | 1000000.00 | -8.14 |
| 2426.578947 | 42.10 | -53.1 | -13 | -40.1 | 105.00 | 1.00 | Horizontal | 1000000.00 | -2.39 |
| 17194.21053 | 70.00 | -25.2 | -13 | -12.2 | 147.00 | 1.09 | Horizontal | 1000000.00 | 33.88 |

Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP \text{ (dBm)} = E \text{ Peak (dBμV/m)} + 20 \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

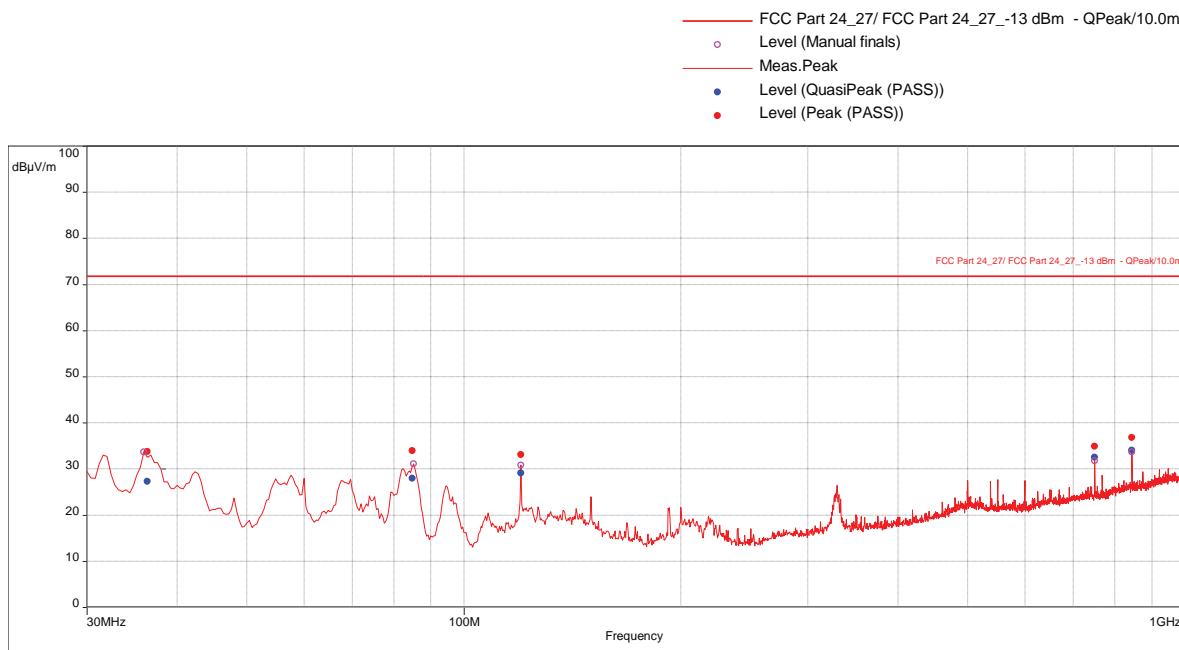
Radiated Emissions, 18-22 GHz
Band 25(4G LTE), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.16 dBm)

Manual scan was performed at 10 cm from the EUT with no emission was detected.

Radiated Emissions, 30-1000 MHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/7/2022 8:48:38 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 24 C |
| Humidity | 22 % |
| Atmospheric Pressure | 1011 mbar |
| Comments | Scan 3: Band 25(4G LTE), Mid 1962.5MHz, 15MHz-QPSK (Worst-case output power, 22.79 dBm), RE 30-1000MHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (6)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 36.41052632 | 33.79 | -50.91 | -13 | -37.91 | 53.00 | 2.85 | Vertical | 1200000.00 | -16.71 |
| 84.78947368 | 33.90 | -50.8 | -13 | -37.8 | 258.00 | 3.65 | Vertical | 1200000.00 | -25.31 |
| 120 | 33.12 | -51.58 | -13 | -38.58 | 322.00 | 1.62 | Vertical | 1200000.00 | -18.46 |
| 750 | 34.86 | -49.84 | -13 | -36.84 | 215.00 | 4.00 | Horizontal | 1200000.00 | -8.57 |
| 844.8 | 36.78 | -47.92 | -13 | -34.92 | 148.00 | 1.35 | Horizontal | 1200000.00 | -6.69 |
| 1000 | 38.00 | -46.7 | -13 | -33.7 | 127.00 | 1.00 | Horizontal | 1200000.00 | -4.73 |

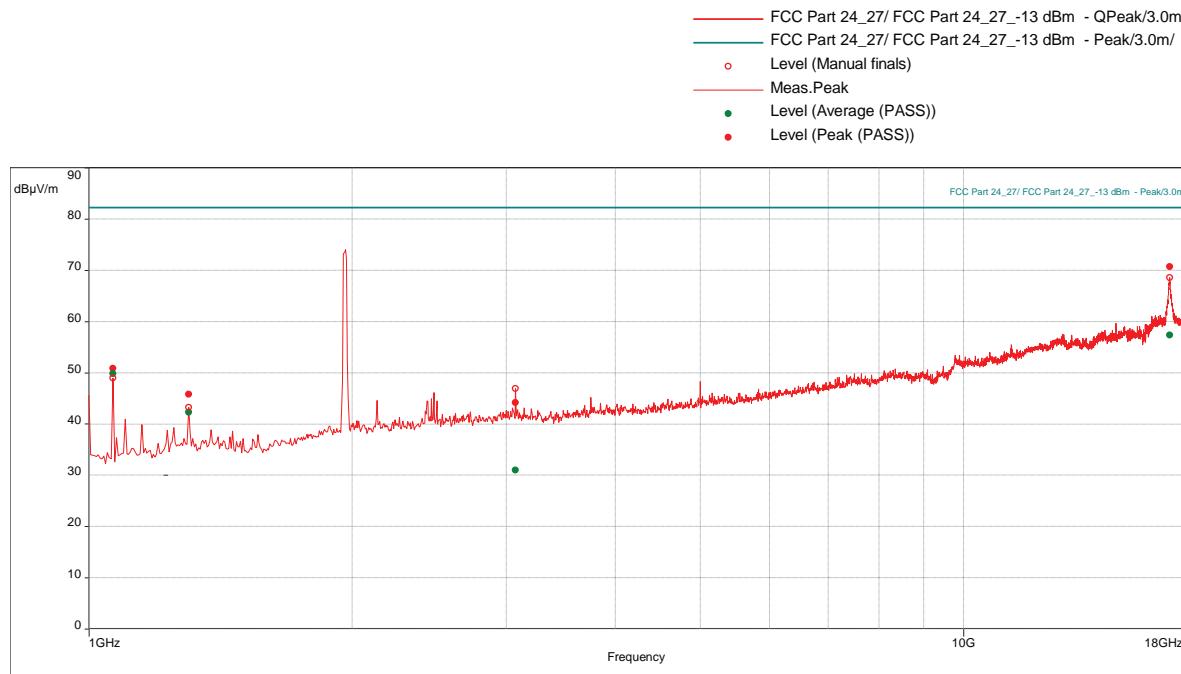
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP \text{ (dBm)} = E \text{ Peak (dBμV/m)} + 20 \cdot \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 1-18 GHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/8/2022 6:28:32 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 17: Band 25(4G LTE), Mid 1962.5MHz, 15MHz-QPSK (Worst-case output power, 22.79dBm), RE 1-18 GHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (4)**

| Frequency (MHz) | Peak Level (dB μ V/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 1066.578947 | 50.85 | -44.35 | -13 | -31.35 | 162.00 | 1.65 | Horizontal | 1000000.00 | -8.96 |
| 1300 | 45.77 | -49.43 | -13 | -36.43 | 155.00 | 1.60 | Horizontal | 1000000.00 | -6.74 |
| 3075.263158 | 44.15 | -51.05 | -13 | -38.05 | 0.00 | 1.90 | Horizontal | 1000000.00 | -0.75 |
| 17204.73684 | 70.70 | -24.5 | -13 | -11.5 | 45.00 | 1.35 | Vertical | 1000000.00 | 34.03 |

Notes:

The level in EIRP (dBm) is calculated from the peak readings as, EIRP (dBm) = E Peak (dB μ V/m) + 20*Log(d) – 104.8, where d is the measurement distance (in the far field region) in meter.

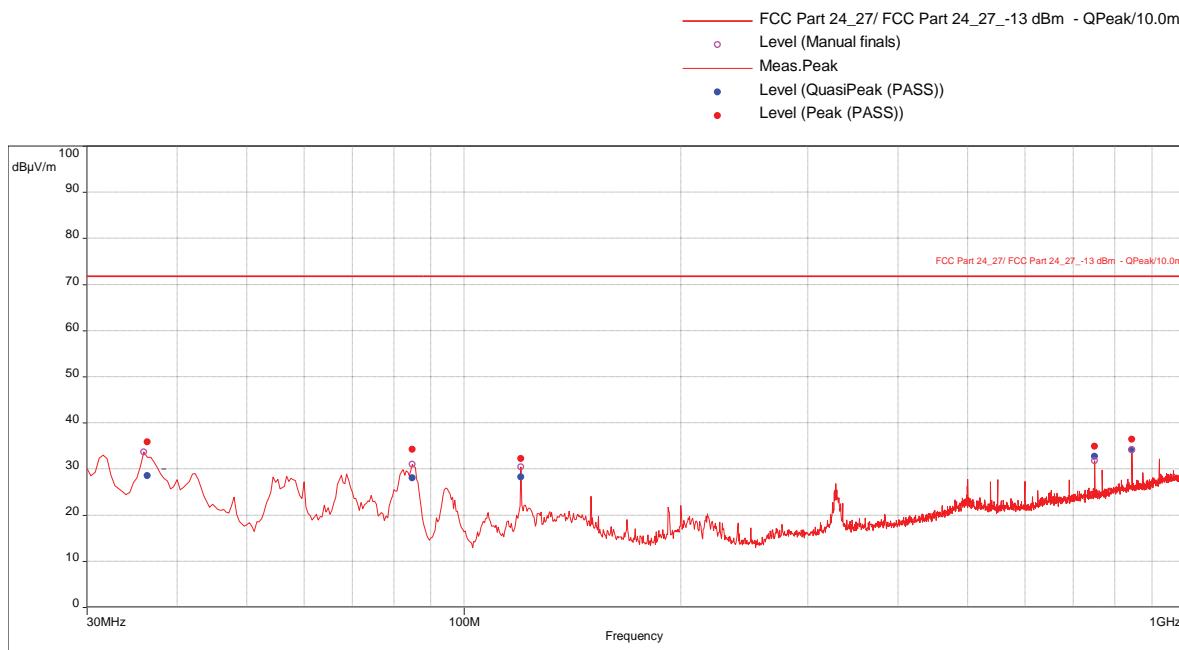
Radiated Emissions, 18-20 GHz
Band 25(4G LTE), Mid Channel 1962.5 MHz, BW 15 MHz, Modulation QPSK
(Worst-case output power, 22.79 dBm)

Manual scan was performed at 10 cm from the EUT with no emission was detected.

Radiated Emissions, 30-1000 MHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/7/2022 9:19:41 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 24 C |
| Humidity | 22 % |
| Atmospheric Pressure | 1011 mbar |
| Comments | Scan 4: Band 25(4G LTE), High 1985MHz, 20MHz-64QAM (Worst-case output power, 22.66dBm), RE 30-1000MHz SA mode |

Graph:**Results:**

EIRP Peak (PASS) (6)

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|-----------|-----------------|
| 36.50526316 | 35.82 | -48.88 | -13 | -35.88 | 10.00 | 1.29 | Vertical | 120000.00 | -16.77 |
| 84.76842105 | 34.27 | -50.43 | -13 | -37.43 | 286.00 | 1.52 | Vertical | 120000.00 | -25.31 |
| 120 | 32.22 | -52.48 | -13 | -39.48 | 206.00 | 2.02 | Vertical | 120000.00 | -18.46 |
| 750 | 34.89 | -49.81 | -13 | -36.81 | 220.00 | 3.84 | Horizontal | 120000.00 | -8.57 |
| 844.8 | 36.38 | -48.32 | -13 | -35.32 | 148.00 | 1.36 | Horizontal | 120000.00 | -6.69 |
| 1000 | 37.89 | -46.81 | -13 | -33.81 | 125.00 | 1.00 | Horizontal | 120000.00 | -4.73 |

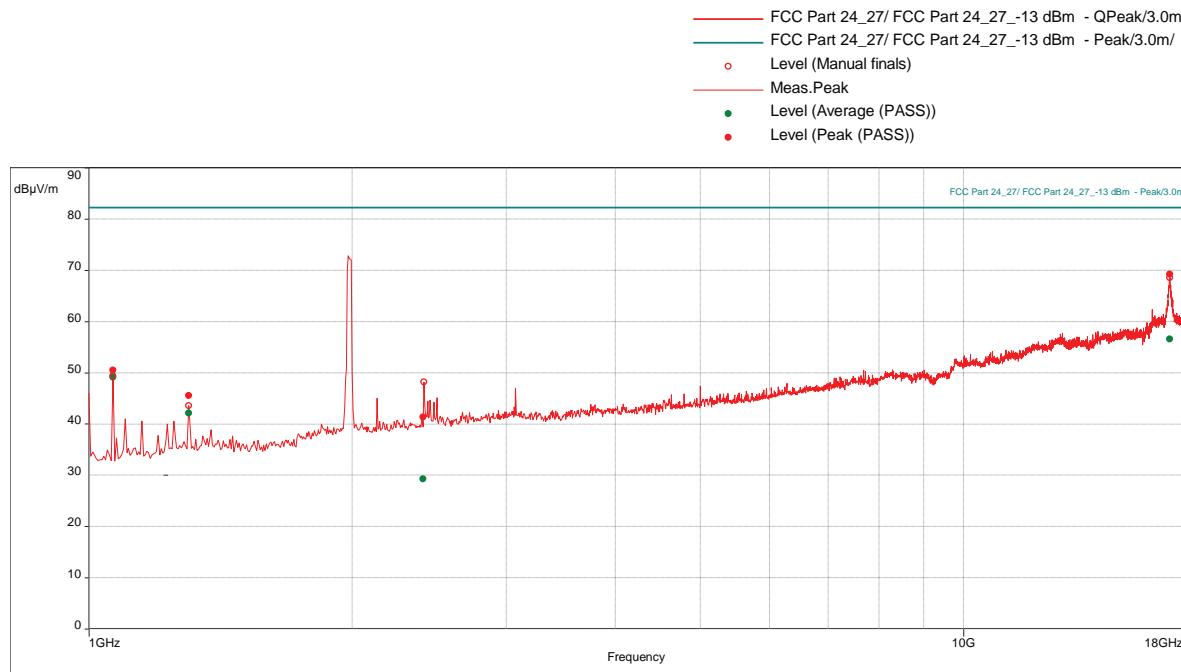
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP \text{ (dBm)} = E \text{ Peak (dBμV/m)} + 20 \cdot \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 1-18 GHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/8/2022 7:43:11 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 18: Band 25(4G LTE), High 1985MHz, 20MHz-64QAM (Worst-case output power, 22.66dBm), RE 1-18 GHz SA mode |

Graph:**Results:**

EIRP Peak (PASS) (4)

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 1066.578947 | 50.48 | -44.72 | -13 | -31.72 | 155.00 | 1.60 | Horizontal | 1000000.00 | -8.96 |
| 1300 | 45.48 | -49.72 | -13 | -36.72 | 163.00 | 1.65 | Horizontal | 1000000.00 | -6.74 |
| 2411.842105 | 41.32 | -53.88 | -13 | -40.88 | 280.00 | 3.10 | Vertical | 1000000.00 | -2.50 |
| 17216.57895 | 69.20 | -26.00 | -13 | -13 | 67.00 | 3.69 | Horizontal | 1000000.00 | 33.21 |

Notes:

The level in EIRP (dBm) is calculated from the peak readings as, EIRP (dBm) = E Peak (dBμV/m) + 20*Log(d) – 104.8, where d is the measurement distance (in the far field region) in meter.

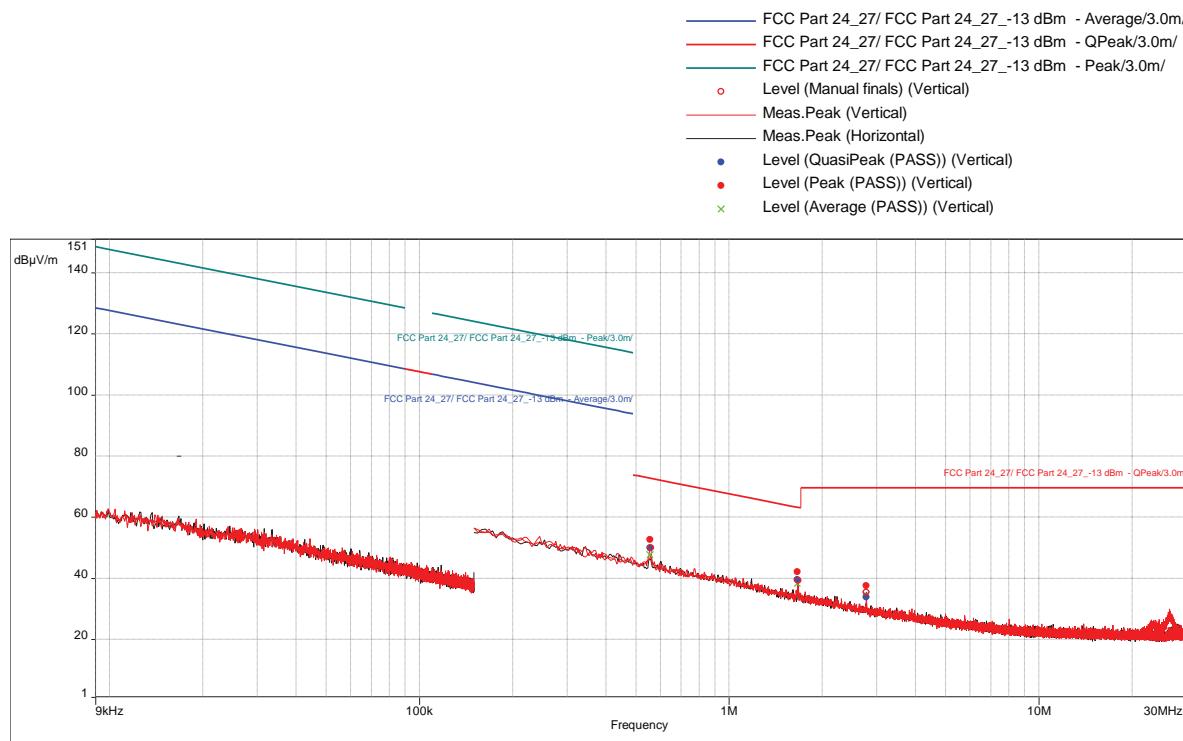
Radiated Emissions, 18-20 GHz
Band 25(4G LTE), High Channel 1985 MHz, BW 20 MHz, Modulation 64QAM
(Worst-case output power, 22.66 dBm)

Manual scan was performed at 10 cm from the EUT with no emission was detected.

Radiated Emissions, 9 kHz-30 MHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/16/2022 6:33:30 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 25 C |
| Humidity | 14 % |
| Atmospheric Pressure | 1022 mbar |
| Comments | Scan 2: Band 25(4G nR), Low Ch. 1937.5MHz, 15MHz BW, 16QAM Mod, (worst-case output pwr 23.19 dBm) RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC Part 18) |

Graph:**Results:****EIRP Peak (PASS) (3)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|----------|----------|-----------------|
| 0.5547631579 | 52.57 | -42.63 | -13 | -29.63 | 183.00 | 2.00 | Vertical | 9000.00 | 11.13 |
| 1.663894737 | 42.08 | -53.12 | -13 | -40.12 | 171.00 | 2.00 | Vertical | 9000.00 | 11.60 |
| 2.7735 | 37.46 | -57.74 | -13 | -44.74 | 178.00 | 2.00 | Vertical | 9000.00 | 11.54 |

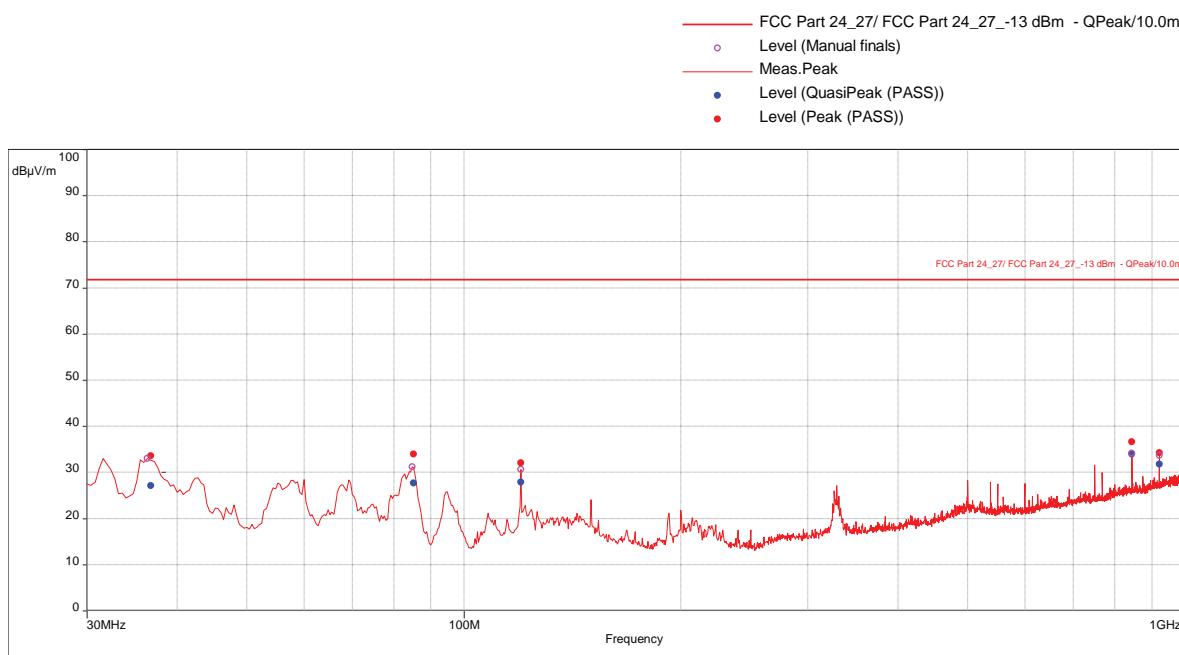
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP (dBm) = E \text{ Peak (dBμV/m)} + 20 \cdot \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 30-1000 MHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/7/2022 8:07:11 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 24 C |
| Humidity | 22 % |
| Atmospheric Pressure | 1011 mbar |
| Comments | Scan 2: Band 25 & 25 (5G nR), Low 1937.5MHz, 15MHz-16QAM (Worst-case output power, 23.19 dBm), RE 30-1000MHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (6)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|-----------|-----------------|
| 36.84210526 | 33.57 | -51.13 | -13 | -38.13 | 46.00 | 1.96 | Vertical | 120000.00 | -16.99 |
| 85.05263158 | 33.95 | -50.75 | -13 | -37.75 | 243.00 | 2.91 | Vertical | 120000.00 | -25.30 |
| 120 | 32.06 | -52.64 | -13 | -39.64 | 228.00 | 1.36 | Vertical | 120000.00 | -18.46 |
| 844.8 | 36.64 | -48.06 | -13 | -35.06 | 149.00 | 1.29 | Horizontal | 120000.00 | -6.69 |
| 921.6 | 34.24 | -50.46 | -13 | -37.46 | 135.00 | 1.00 | Horizontal | 120000.00 | -5.69 |
| 1000 | 38.06 | -46.64 | -13 | -33.64 | 126.00 | 1.00 | Horizontal | 120000.00 | -4.73 |

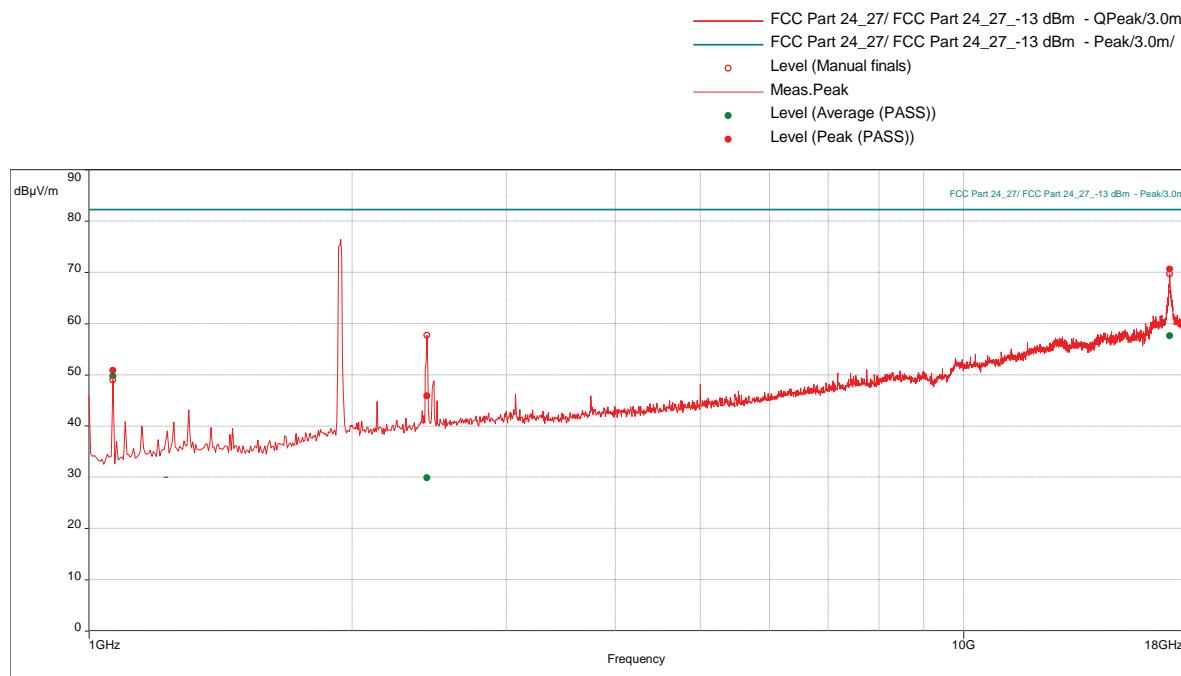
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP (dBm) = E \text{ Peak (dBμV/m)} + 20 * \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 1-18 GHz
Band 25(5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/8/2022 9:16:11 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 20: Band 25 and 25 (5G nR), Low 1937.5MHz, 15MHz-16QAM (Worst-case output power, 23.19dBm), RE 1-18 GHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (3)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 1066.578947 | 50.85 | -44.35 | -13 | -31.35 | 162.00 | 1.65 | Horizontal | 1000000.00 | -8.96 |
| 2435 | 45.84 | -49.36 | -13 | -36.36 | 322.00 | 2.85 | Vertical | 1000000.00 | -2.33 |
| 17200.26316 | 70.62 | -24.58 | -13 | -11.58 | 4.00 | 1.30 | Vertical | 1000000.00 | 34.36 |

Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP \text{ (dBm)} = E \text{ Peak (dBμV/m)} + 20 \log(d) - 104.8$, where d is the measurement distance (in the far field region) in meter.

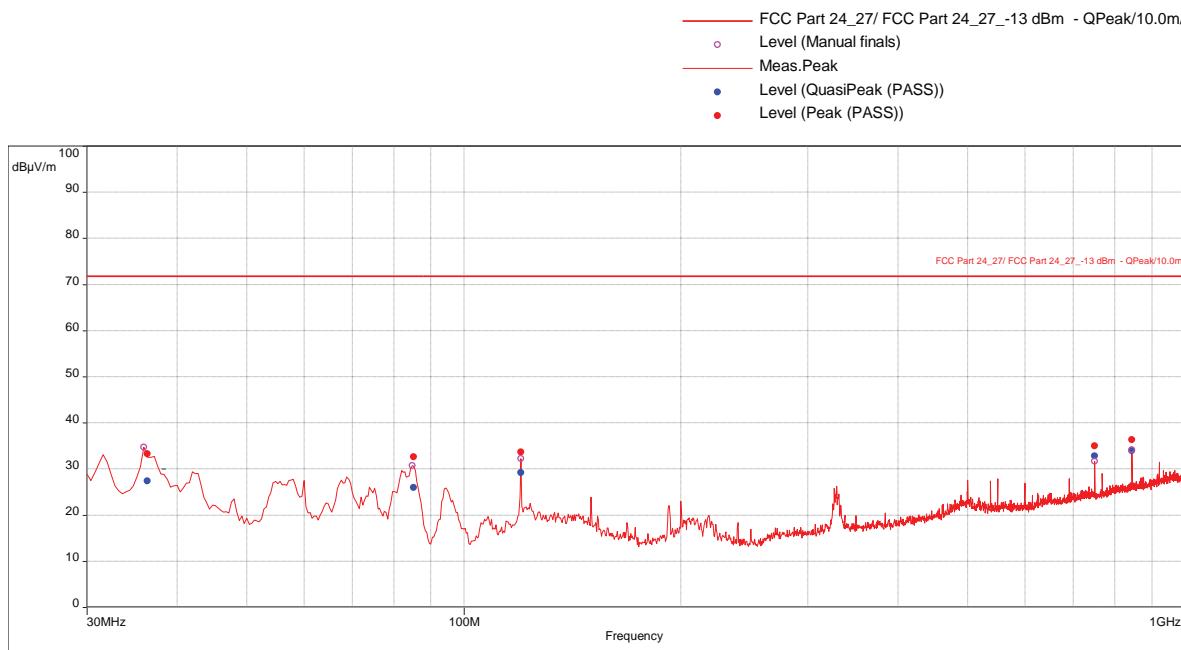
Radiated Emissions, 18-22 GHz
Band 25 (5G nR), Low Channel 1937.5 MHz, BW 15 MHz, Modulation 16QAM
(Worst-case output power, 23.19 dBm)

Manual scan was performed at 10 cm from the EUT with no emission was detected.

Radiated Emissions, 30-1000 MHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.14 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/7/2022 9:55:50 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 24 C |
| Humidity | 22 % |
| Atmospheric Pressure | 1011 mbar |
| Comments | Scan 5: Band 25(5G nR), Mid 1962.5Hz, 10MHz-16QAM (Worst-case output power, 23.14dBm), RE 30-1000MHz SA mode |

Graph:**Results:**

EIRP Peak (PASS) (6)

| Frequency (MHz) | Peak Level (dB μ V/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------------|------------------|-------------|------------------|-------------|------------|------------|-----------|-----------------|
| 36.25263158 | 33.31 | -61.89 | -13 | -48.89 | 0.00 | 2.96 | Vertical | 120000.00 | -16.61 |
| 85.17894737 | 32.61 | -62.59 | -13 | -49.59 | 25.00 | 3.35 | Vertical | 120000.00 | -25.31 |
| 120 | 33.61 | -61.59 | -13 | -48.59 | 112.00 | 1.87 | Vertical | 120000.00 | -18.46 |
| 750 | 34.96 | -60.24 | -13 | -47.24 | 221.00 | 3.86 | Horizontal | 120000.00 | -8.57 |
| 844.8 | 36.31 | -58.89 | -13 | -45.89 | 149.00 | 1.00 | Horizontal | 120000.00 | -6.69 |
| 1000 | 37.69 | -57.51 | -13 | -44.51 | 125.00 | 1.00 | Horizontal | 120000.00 | -4.73 |

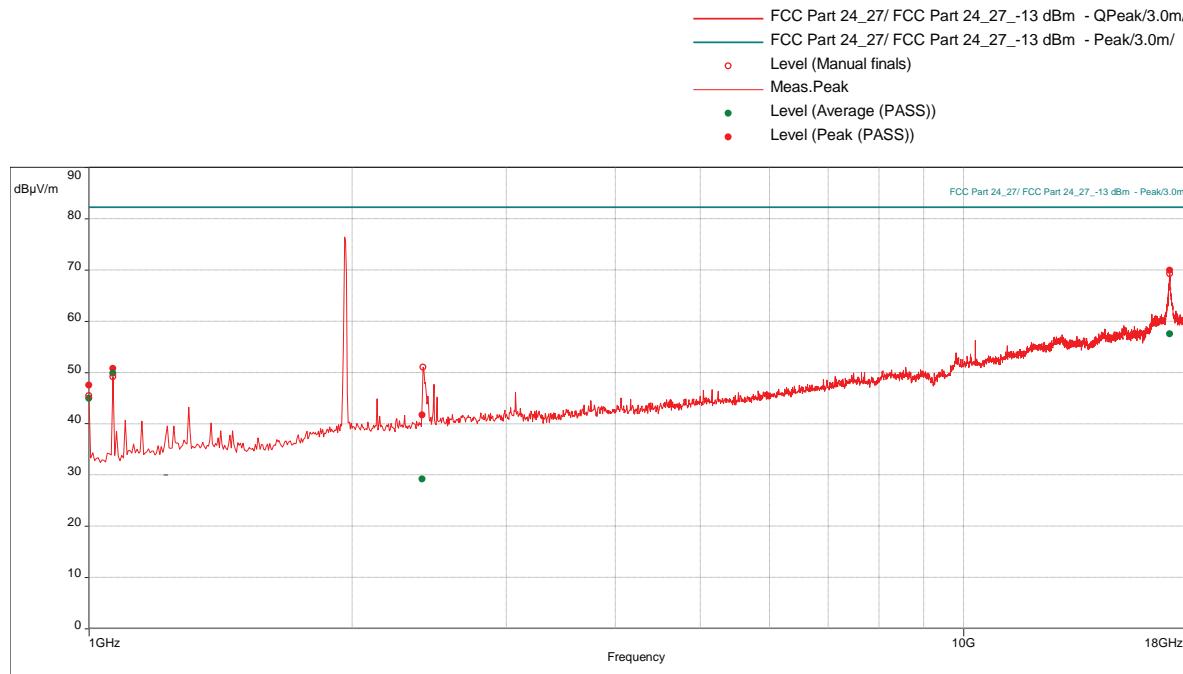
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, EIRP (dBm) = E Peak (dB μ V/m) + 20*Log(d) – 104.8, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 1-18 GHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.14 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/8/2022 4:56:34 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 15: Band 25(5G nR), Mid 1962.5MHz, 10MHz-16QAM (Worst-case output power, 23.1dBm), RE 1-18 GHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (4)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 1000 | 47.52 | -47.68 | -13 | -34.68 | 133.00 | 1.00 | Horizontal | 1000000.00 | -8.14 |
| 1066.578947 | 50.75 | -44.45 | -13 | -31.45 | 162.00 | 1.60 | Horizontal | 1000000.00 | -8.96 |
| 2406.052632 | 41.67 | -53.53 | -13 | -40.53 | 38.00 | 1.50 | Vertical | 1000000.00 | -2.56 |
| 17202.36842 | 69.93 | -25.27 | -13 | -12.27 | 17.00 | 2.10 | Horizontal | 1000000.00 | 34.20 |

Notes:

The level in EIRP (dBm) is calculated from the peak readings as, EIRP (dBm) = E Peak (dBμV/m) + 20*Log(d) – 104.8, where d is the measurement distance (in the far field region) in meter.

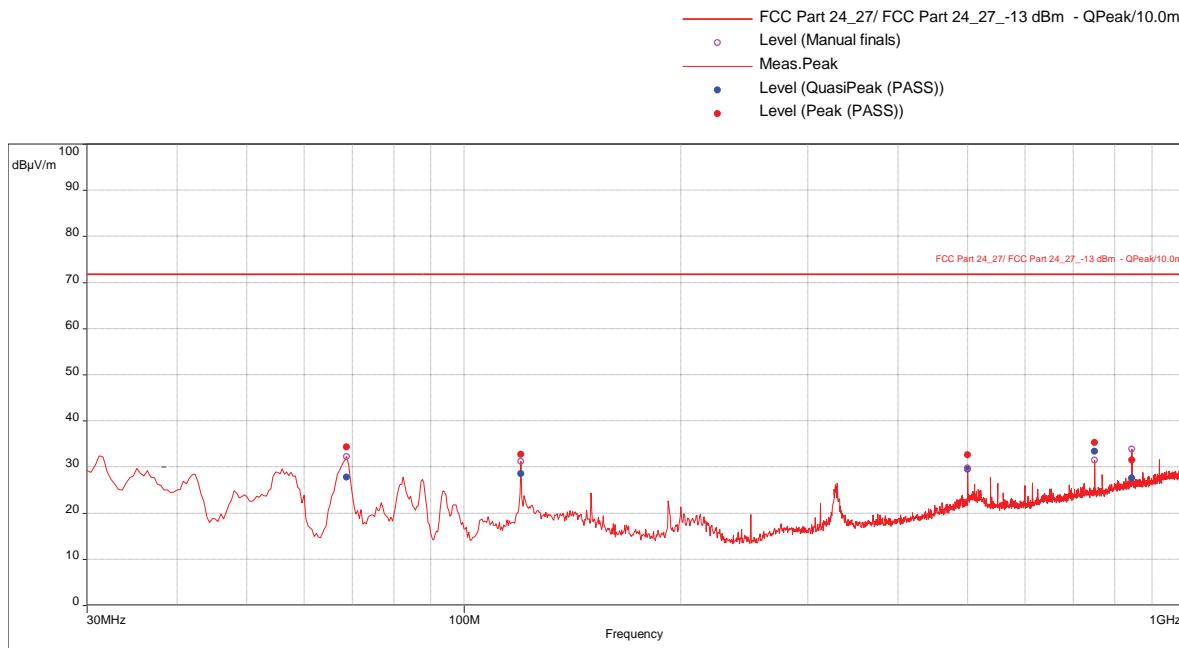
Radiated Emissions, 18-20 GHz
Band 25(5G nR), Mid Channel 1962.5 MHz, BW 10 MHz, Modulation 16QAM
(Worst-case output power, 23.14 dBm)

Manual scan was performed at 10 cm from the EUT with no emission was detected.

Radiated Emissions, 30-1000 MHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)

Test Information:

| | |
|---------------------------|---|
| Date and Time | 2/8/2022 8:54:28 AM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 6: Band 25(5G nR), High 1985MHz, 20MHz-QPSK (Worst-case output power, 22.92dBm), RE 30-1000MHz SA mode |

Graph:**Results:**

EIRP Peak (PASS) (6)

| Frequency (MHz) | Peak Level (dB μ V/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 68.76842105 | 34.29 | -60.91 | -13.00 | -47.91 | 143.00 | 2.07 | Vertical | 1200000.00 | -24.84 |
| 120 | 32.73 | -62.47 | -13.00 | -49.47 | 53.00 | 1.30 | Vertical | 1200000.00 | -18.46 |
| 500 | 32.61 | -62.59 | -13.00 | -49.59 | 211.00 | 1.00 | Vertical | 1200000.00 | -12.84 |
| 750 | 35.32 | -59.88 | -13.00 | -46.88 | 68.00 | 1.80 | Horizontal | 1200000.00 | -8.57 |
| 844.8 | 31.43 | -63.77 | -13.00 | -50.77 | 189.00 | 3.90 | Horizontal | 1200000.00 | -6.69 |
| 1000 | 40.49 | -54.71 | -13.00 | -41.71 | 127.00 | 1.00 | Horizontal | 1200000.00 | -4.73 |

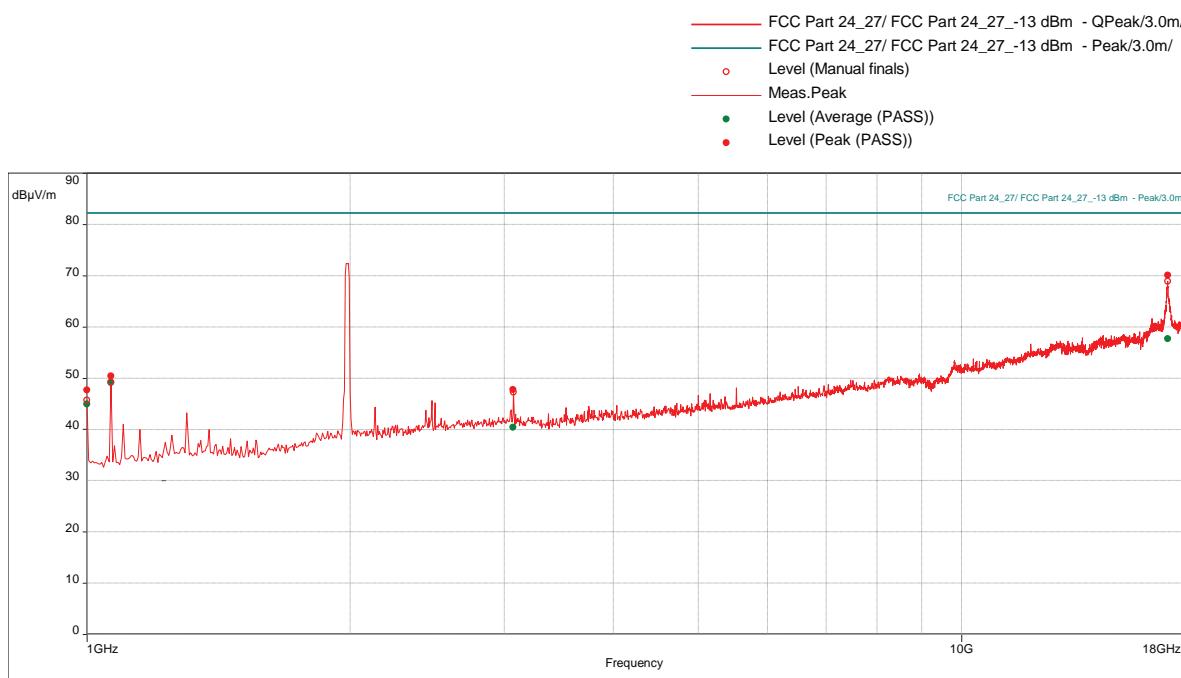
Notes:

The level in EIRP (dBm) is calculated from the peak readings as, EIRP (dBm) = E Peak (dB μ V/m) + 20*Log(d) – 104.7, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 1-18 GHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)

Test Information:

| | |
|---------------------------|--|
| Date and Time | 2/8/2022 5:41:37 PM |
| Client and Project Number | CommScope |
| Engineer | Kouma Sinn |
| Temperature | 20 C |
| Humidity | 29 % |
| Atmospheric Pressure | 1000 mbar |
| Comments | Scan 16: Band 25(5G nR), High 1985MHz, 20MHz-QPSK (Worst-case output power, 22.92dBm), RE 1-18 GHz SA mode |

Graph:**Results:****EIRP Peak (PASS) (4)**

| Frequency (MHz) | Peak Level (dBμV/m) | EIRP Level (dBm) | Limit (dBm) | EIRP Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|-----------------|---------------------|------------------|-------------|------------------|-------------|------------|------------|------------|-----------------|
| 1000 | 47.67 | -47.53 | -13 | -34.53 | 134.00 | 1.00 | Horizontal | 1000000.00 | -8.14 |
| 1066.578947 | 50.39 | -44.81 | -13 | -31.81 | 154.00 | 1.65 | Horizontal | 1000000.00 | -8.96 |
| 3072.105263 | 47.71 | -47.49 | -13 | -34.49 | 170.00 | 1.20 | Horizontal | 1000000.00 | -0.72 |
| 17202.36842 | 70.05 | -25.15 | -13 | -12.15 | 185.00 | 2.80 | Horizontal | 1000000.00 | 34.20 |

Notes:

The level in EIRP (dBm) is calculated from the peak readings as, $EIRP \text{ (dBm)} = E \text{ Peak (dBμV/m)} + 20 \cdot \log(d) - 104.7$, where d is the measurement distance (in the far field region) in meter.

Radiated Emissions, 18-22 GHz
Band 25(5G nR), High Channel 1985 MHz, BW 20 MHz, Modulation QPSK
(Worst-case output power, 22.92 dBm)

Manual scan was performed at 10 cm from the EUT with no emission was detected.

Test Personnel: Kouma Sinn KPS
Supervising/Reviewing

Engineer: Kouma Sinn KPS
(Where Applicable)

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

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

Test Date: 02/07/2022, 02/08/2022, 02/14/2022,
02/16/2022

Limit Applied: See report section 11.3

Ambient Temperature: 24, 20, 23, 25 °C

Relative Humidity: 22, 29, 13, 14 %

Atmospheric Pressure: 1011, 1000, 1005, 1022 mbars

Deviations, Additions, or Exclusions: None

12 Revision History

| Revision Level | Date | Report Number | Prepared By | Reviewed By | Notes |
|----------------|------------|-------------------|----------------|----------------|--|
| 0 | 2/24/2022 | 104915434BOX-001c | KPS <i>KPS</i> | VFV <i>VFV</i> | Original Issue |
| 1 | 03/30/2022 | 104915434BOX-001c | KPS <i>KPS</i> | VFV <i>VFV</i> | 1) Changed report from 'Class II Permissive Change' to 'Full Compliance' report on page 2. 2) Changed the conducted output power to EIRP power in Section 6.3 |
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