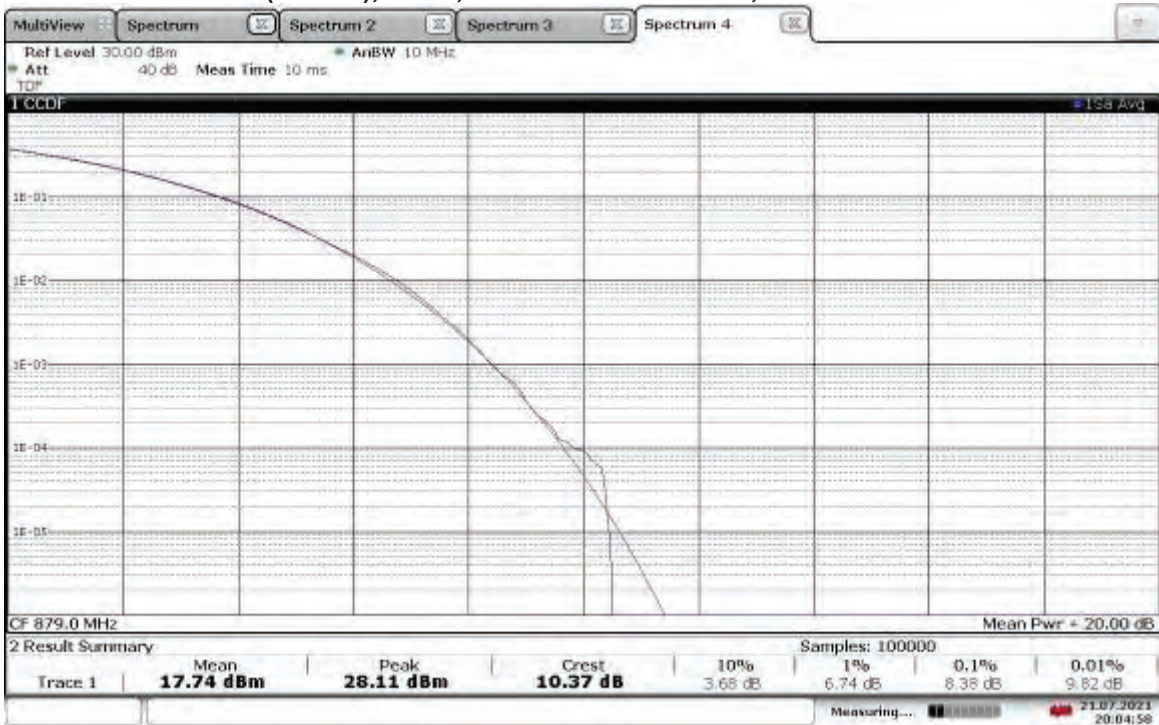
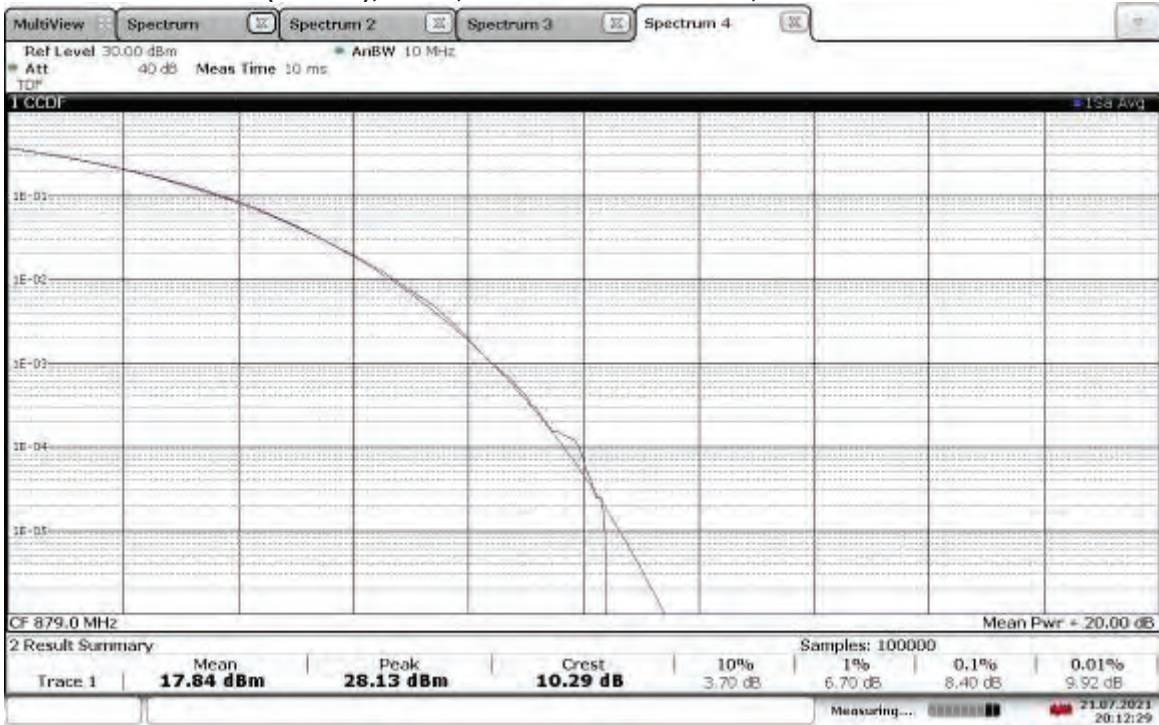


**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 879 MHz, PAPR = 10.37 dB**



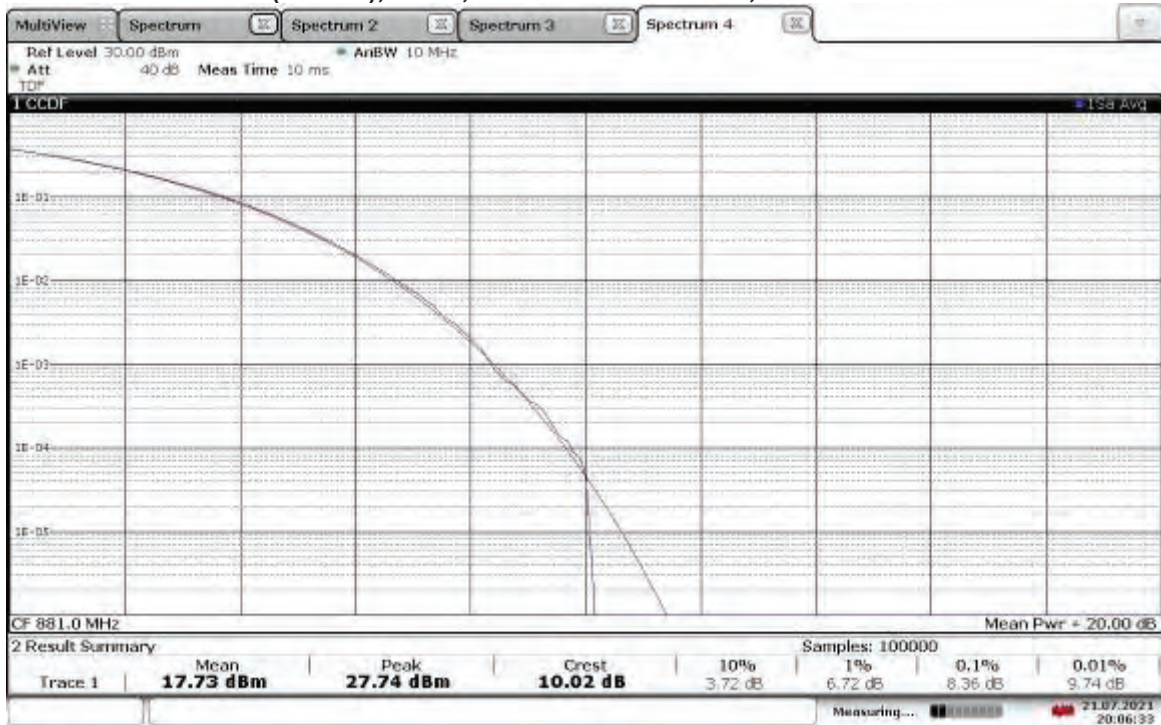
20:04:58 21.07.2021

**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 879 MHz, PAPR = 10.29 dB**



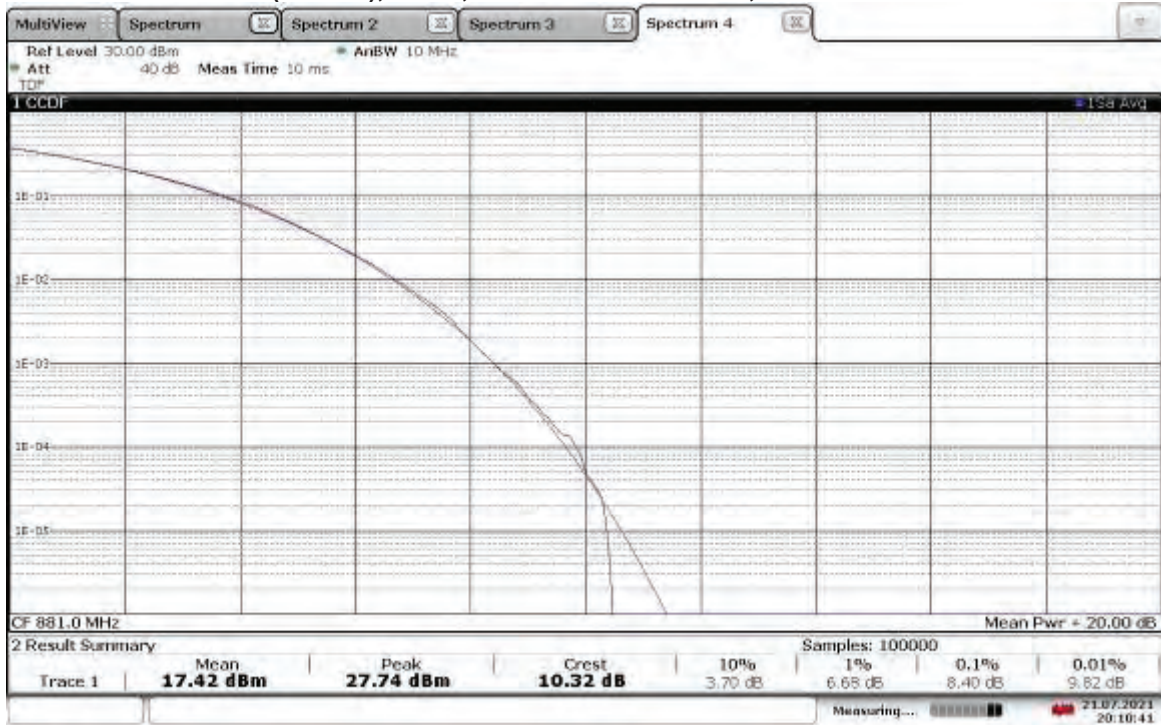
20:12:29 21.07.2021

**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 879 MHz, PAPR = 10.02 dB**



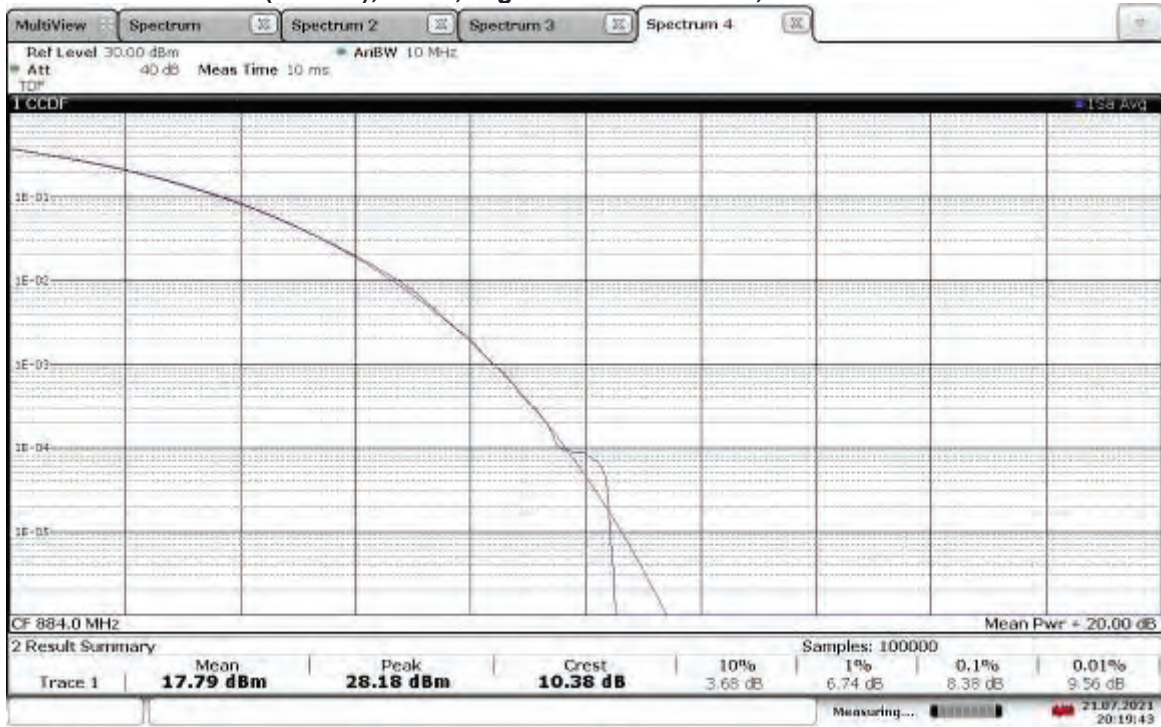
20:06:33 21.07.2021

**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 879 MHz, PAPR = 10.32 dB**



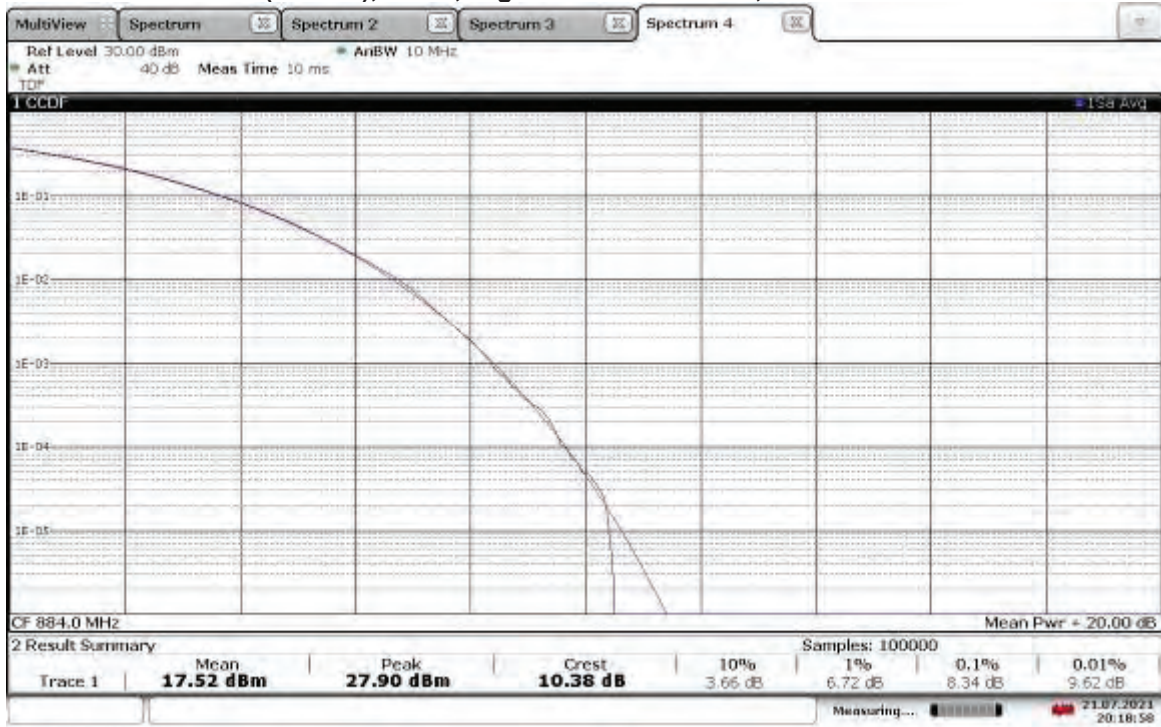
20:10:41 21.07.2021

**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 884 MHz, PAPR = 10.38 dB**



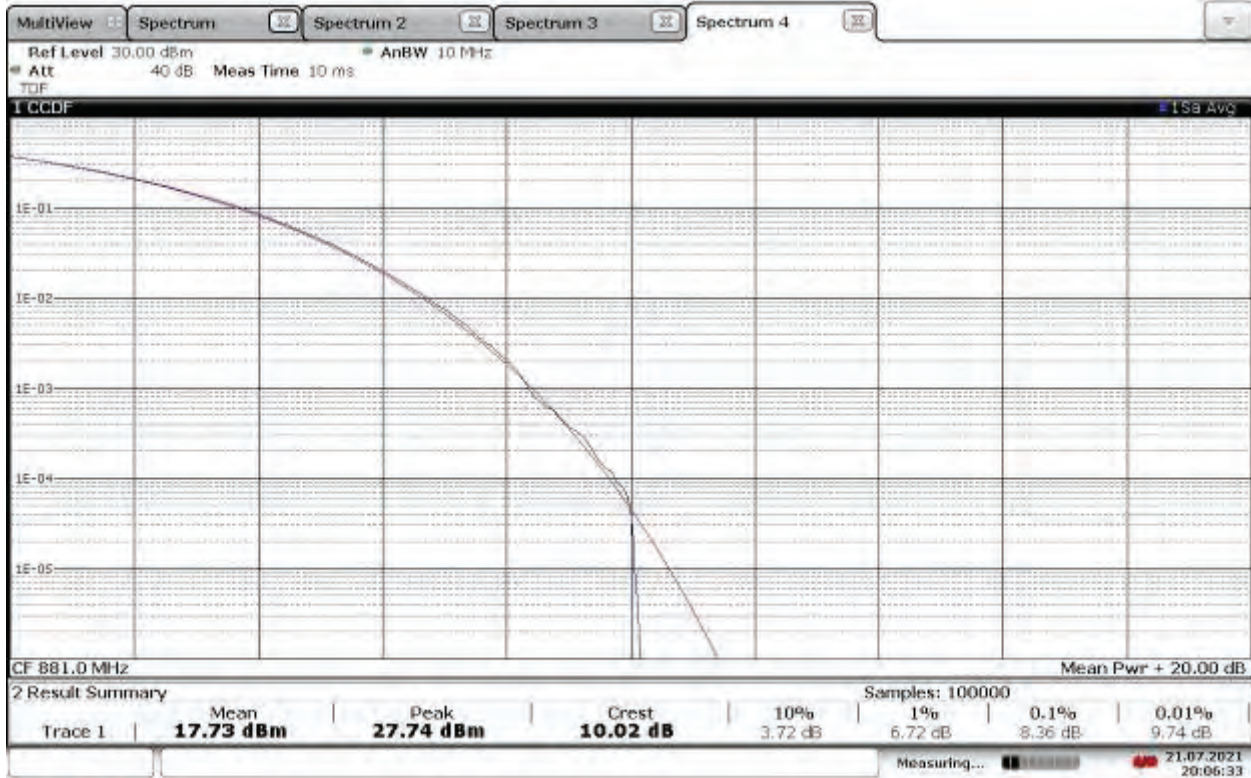
20:19:43 21.07.2021

**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 884 MHz, PAPR = 10.38 dB**



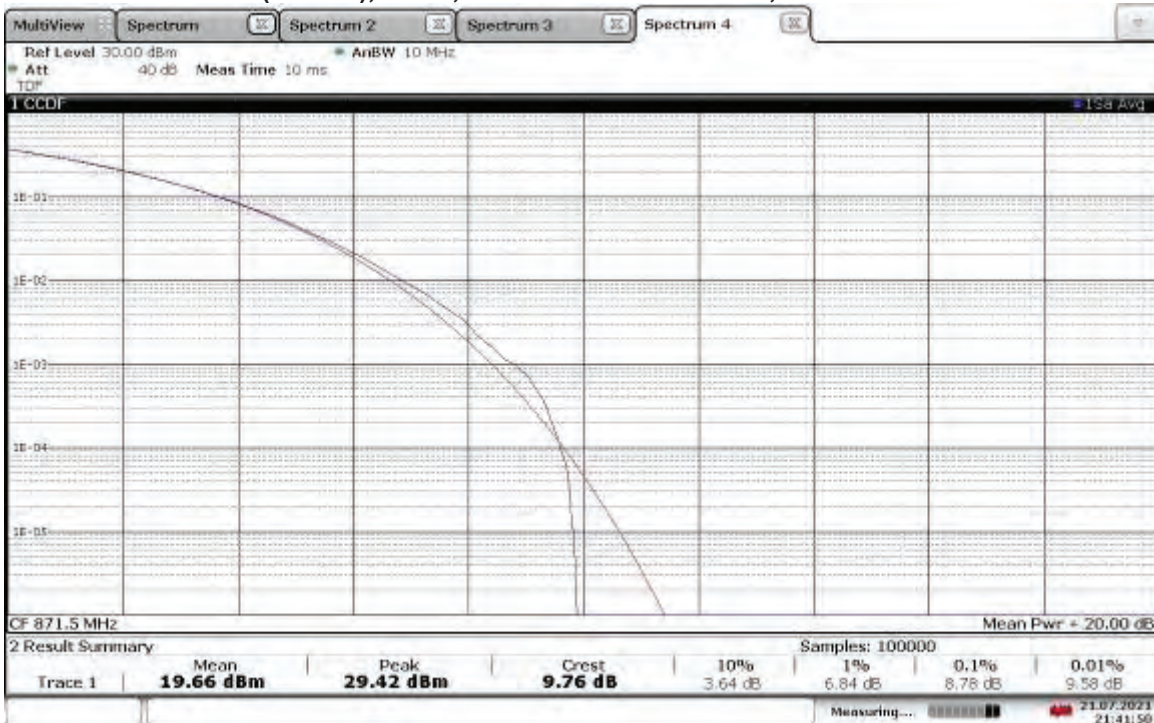
20:18:58 21.07.2021

**TM3.1a-256QAM\_5 MHz Bandwidth**  
**Slot 0 (Band 5), ANT0, Low Channel 871.5 MHz, PAPR = 10.22 dB**



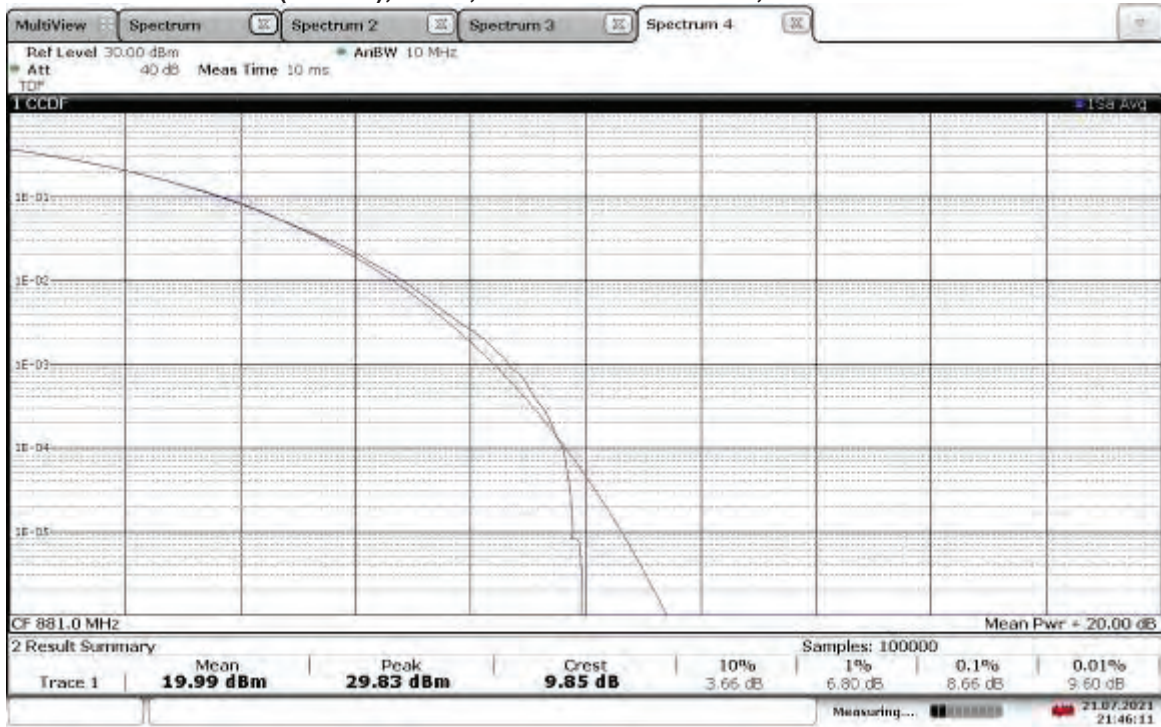
20:06:33 21.07.2021

**TM3.1a-256QAM\_5 MHz Bandwidth**  
**Slot 0 (Band 5), ANT1, Low Channel 871.5 MHz, PAPR = 9.76 dB**



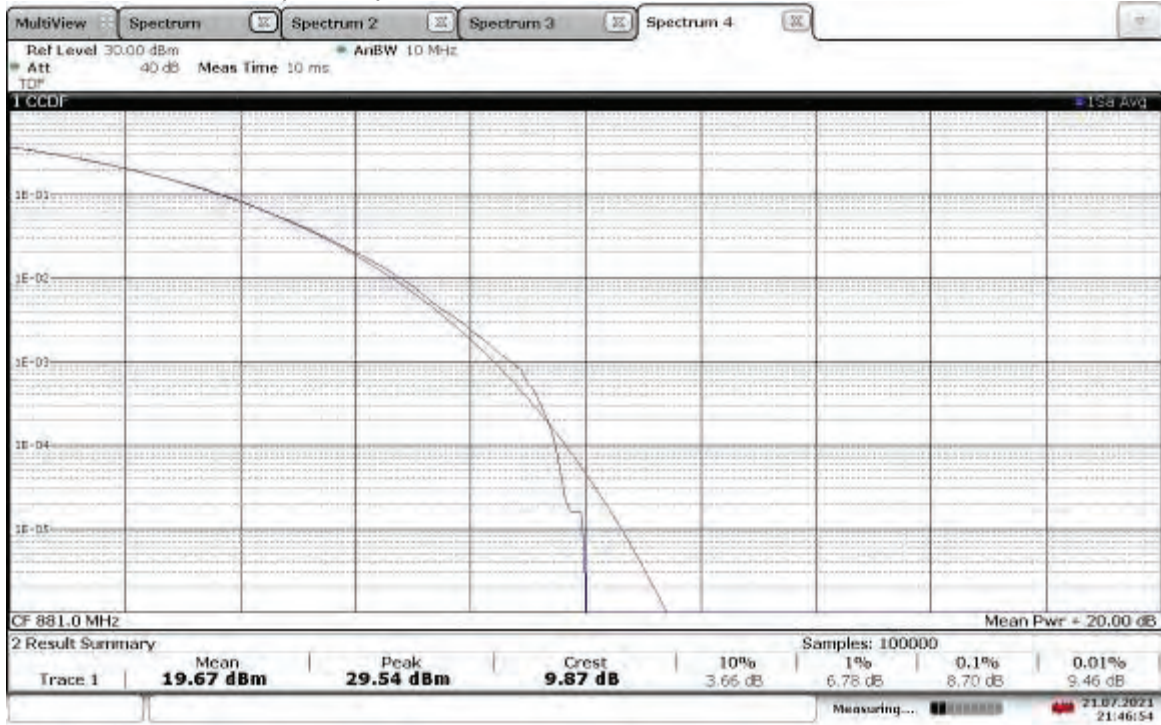
21:41:50 21.07.2021

**TM3.1a-256QAM\_5 MHz Bandwidth**  
**Slot 0 (Band 5), ANT0, Mid Channel 881 MHz, PAPR = 9.85 dB**



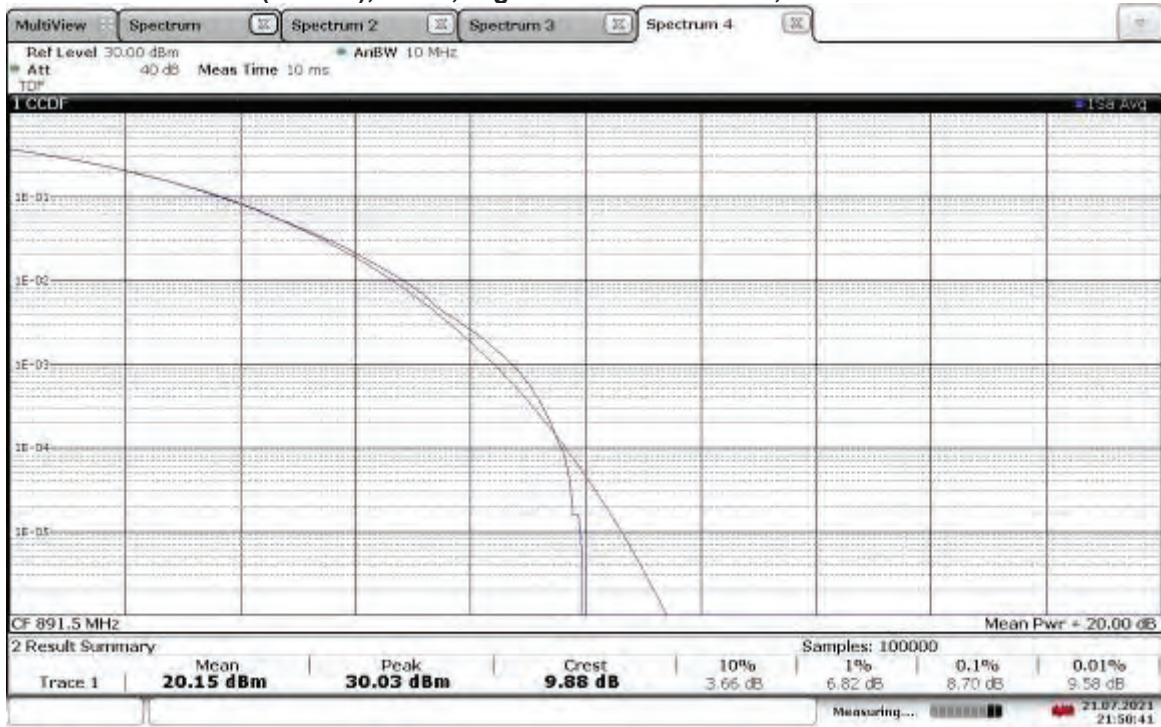
21:46:11 21.07.2021

**TM3.1a-256QAM\_5 MHz Bandwidth**  
**Slot 0 (Band 5), ANT1, Mid Channel 881 MHz, PAPR = 9.87 dB**



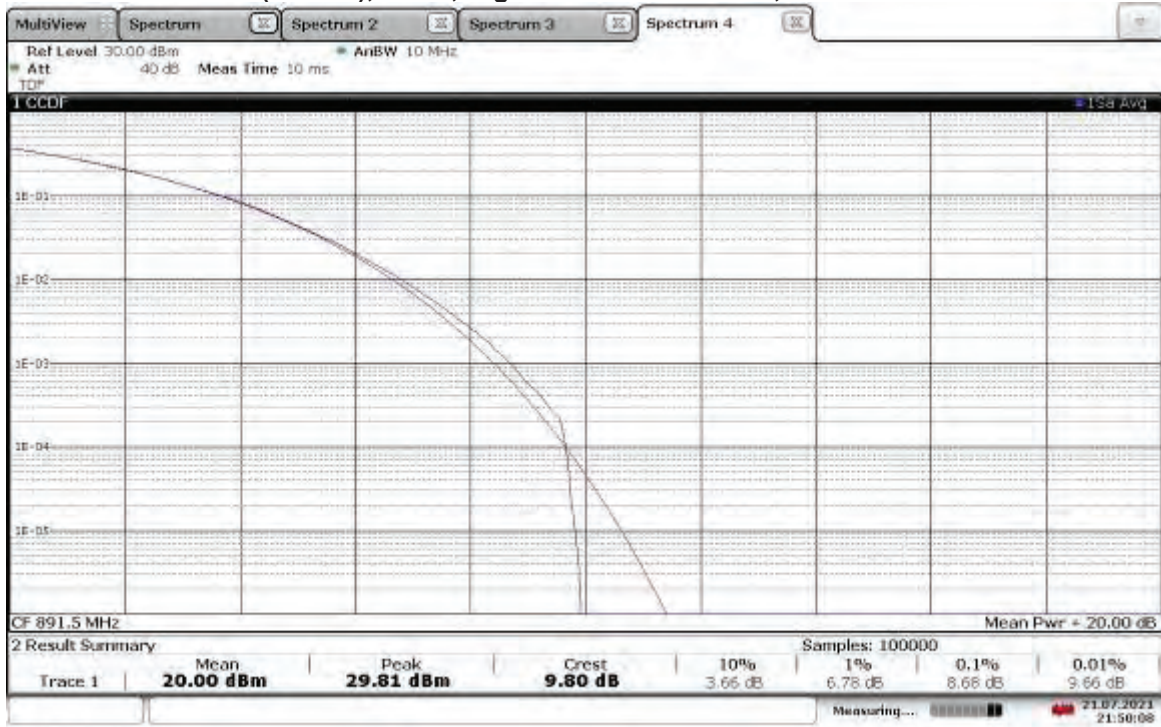
21:46:54 21.07.2021

**TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 891.5 MHz, PAPR = 9.88 dB**



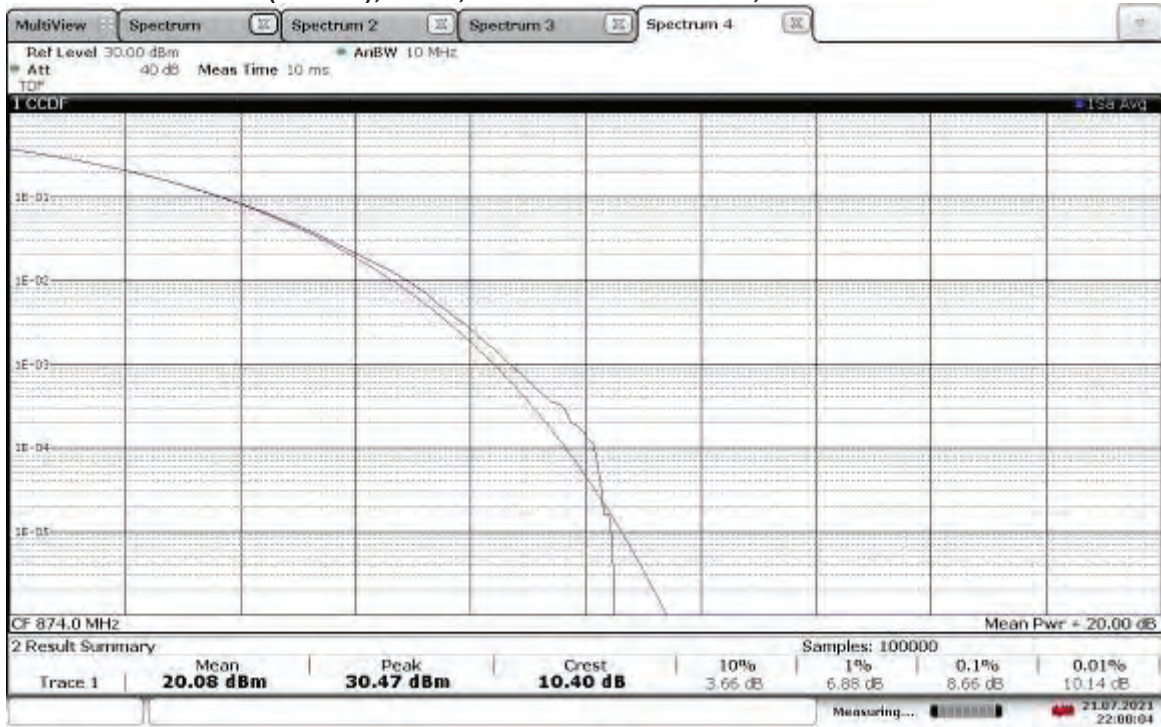
21:50:42 21.07.2021

**TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 891.5 MHz, PAPR = 9.80 dB**



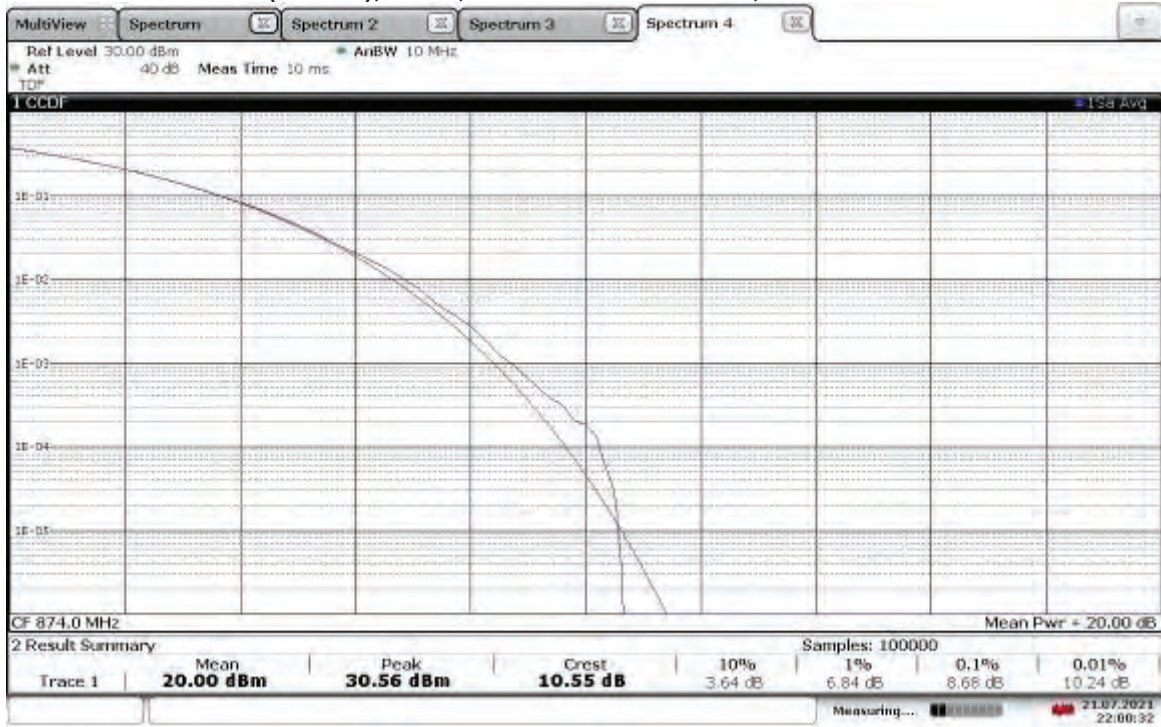
21:50:08 21.07.2021

TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 874 MHz, PAPR = 10.40 dB



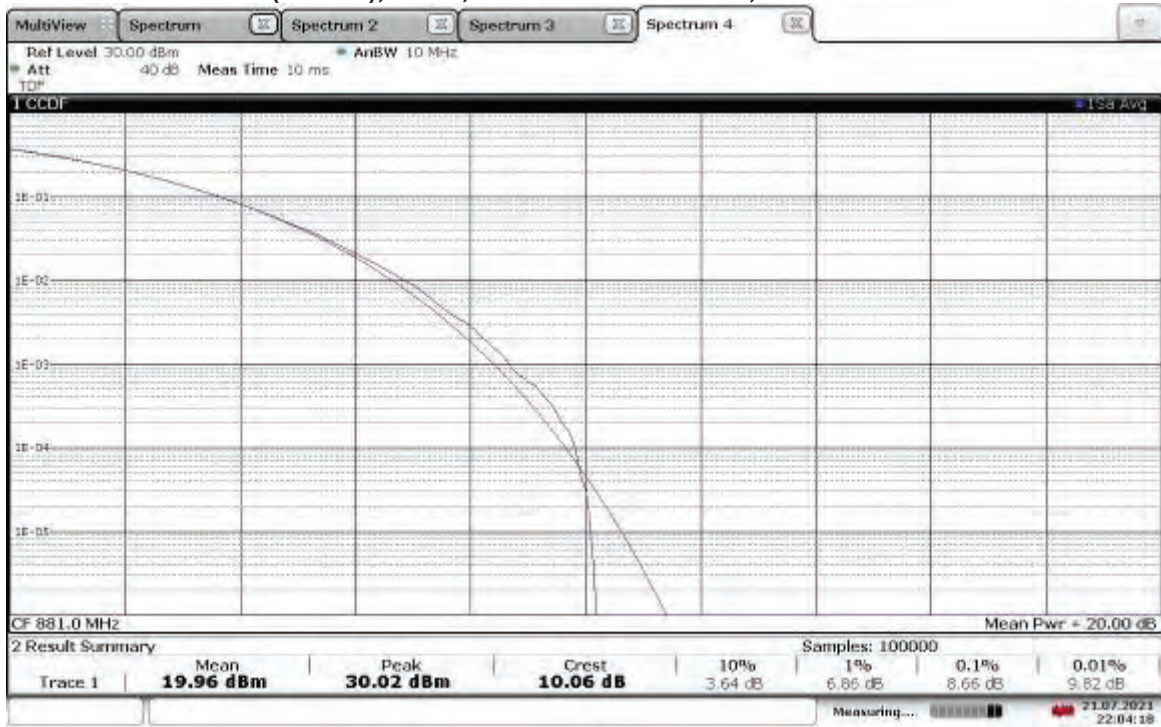
22:00:04 21.07.2021

TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 874 MHz, PAPR = 10.55 dB



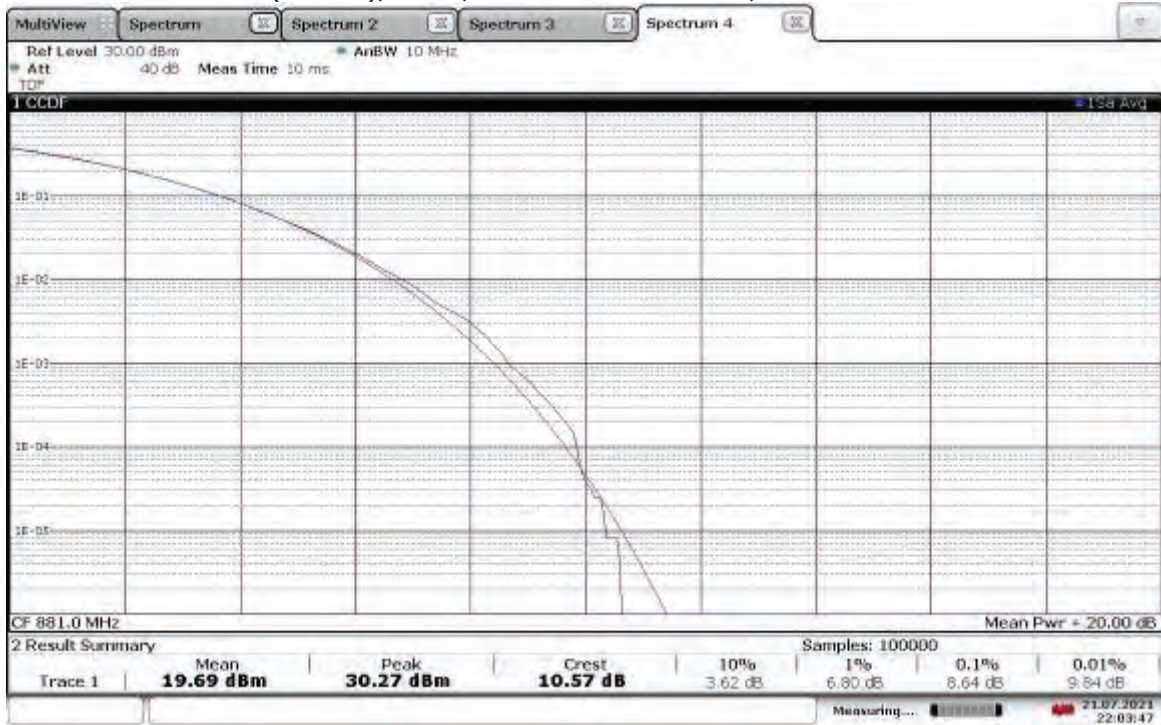
22:00:32 21.07.2021

**TM3.1a-256QAM\_10 MHz Bandwidth**  
**Slot 0 (Band 5), ANT0, Mid Channel 881 MHz, PAPR = 10.06 dB**



22:04:18 21.07.2021

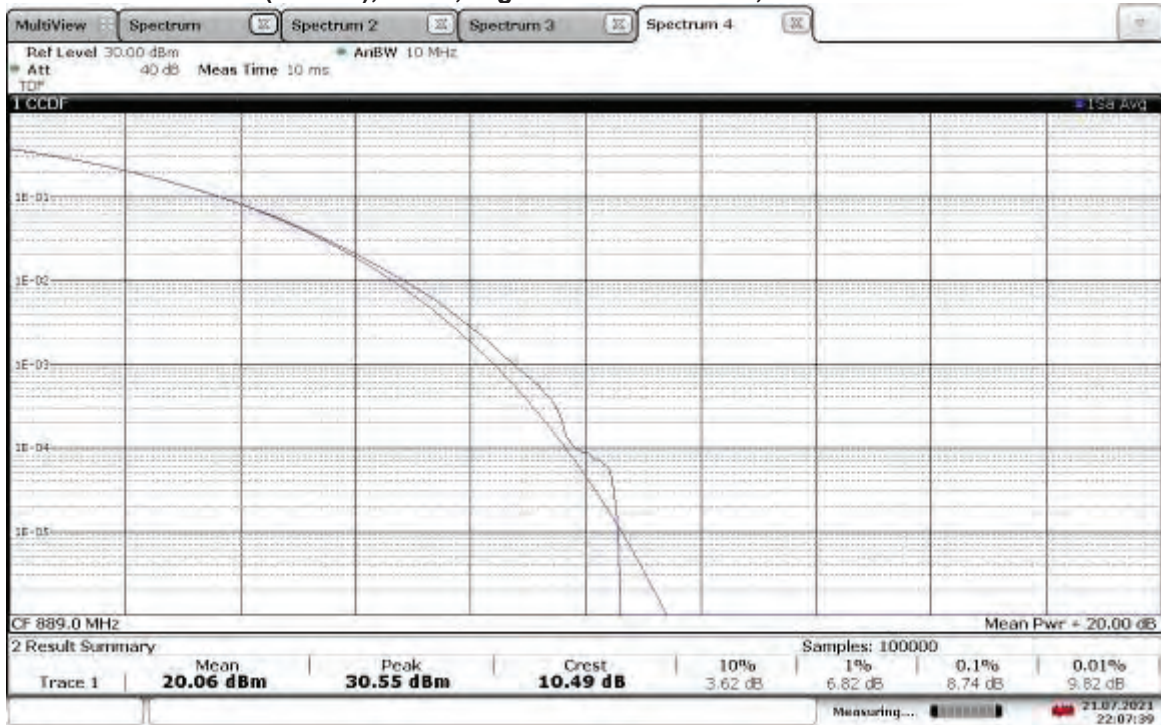
**TM3.1a-256QAM\_10 MHz Bandwidth**  
**Slot 0 (Band 5), ANT1, Mid Channel 881 MHz, PAPR = 10.57 dB**



22:03:47 21.07.2021

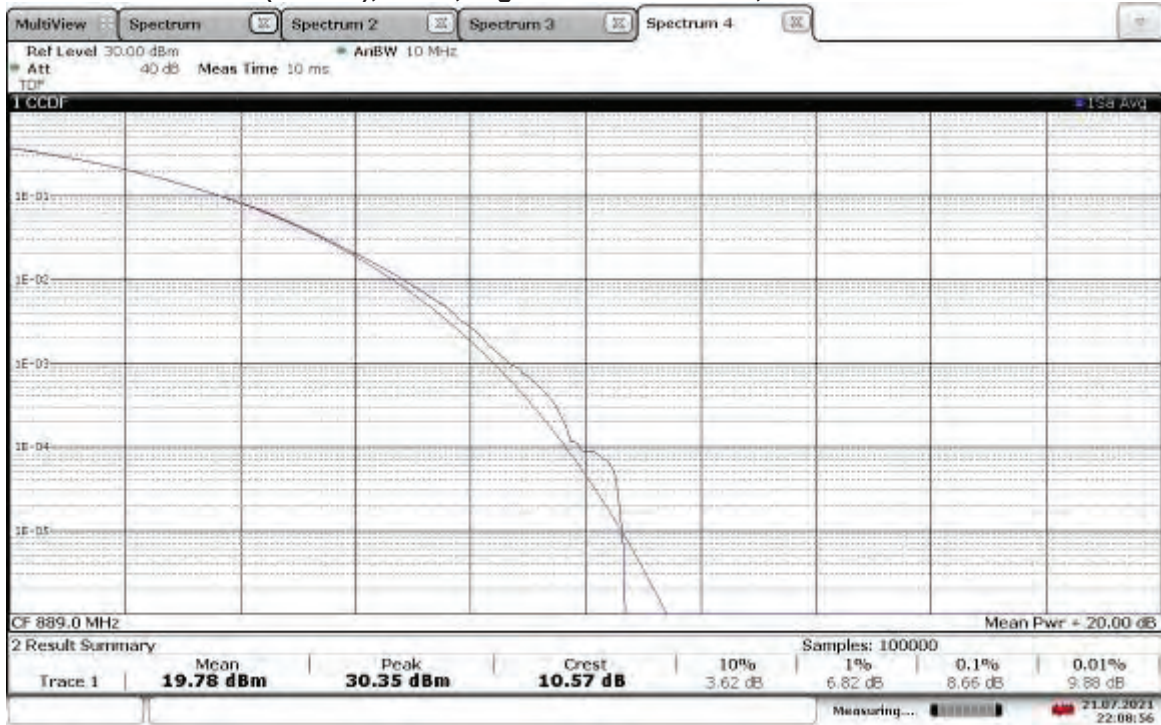


**TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 889 MHz, PAPR = 10.49 dB**



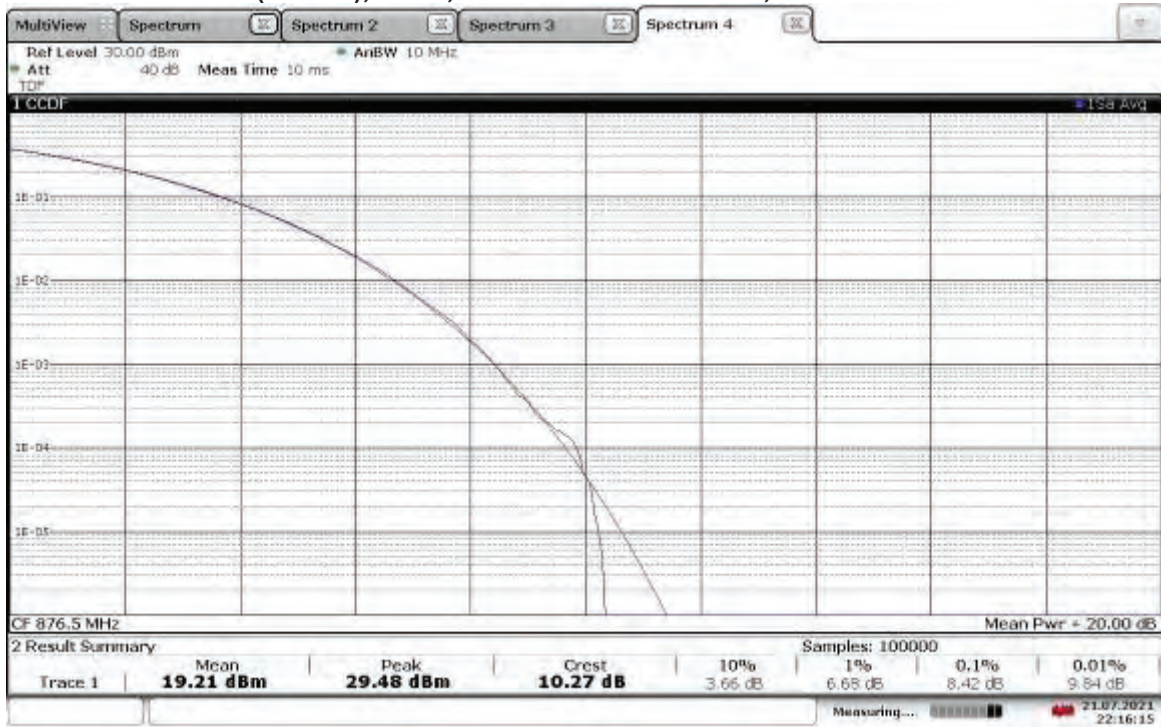
22:07:40 21.07.2021

**TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 889 MHz, PAPR = 10.57 dB**



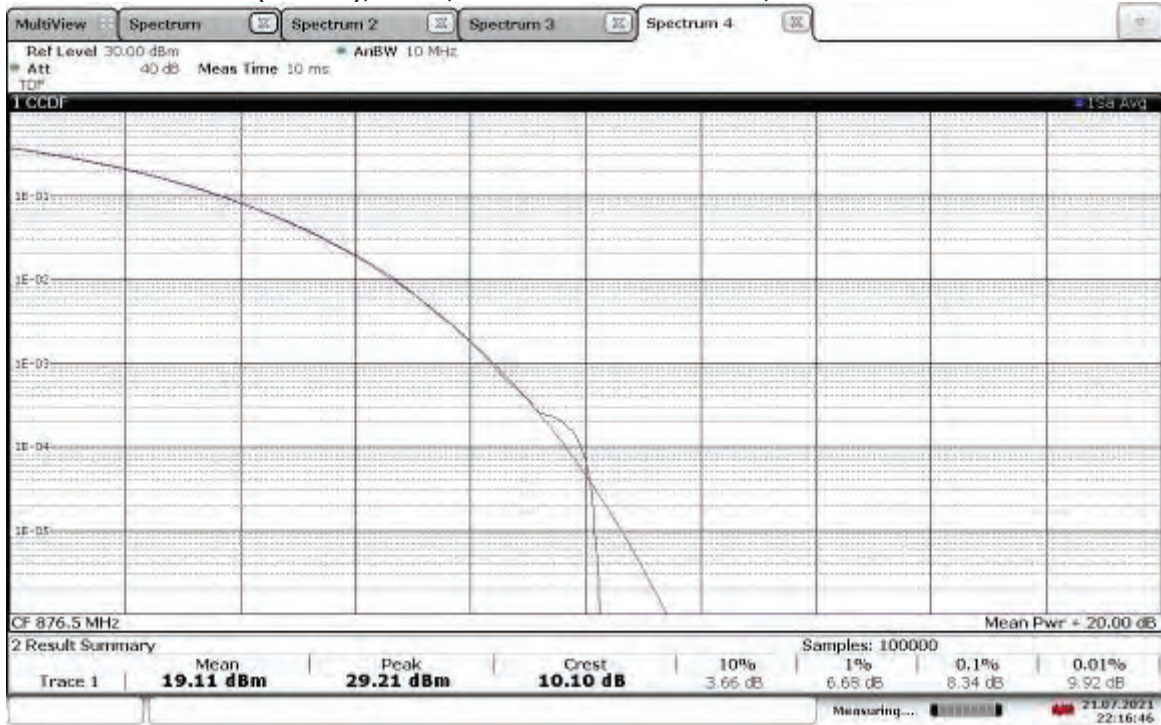
22:08:56 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth**  
**Slot 0 (Band 5), ANT0, Low Channel 876.5 MHz, PAPR = 10.27 dB**



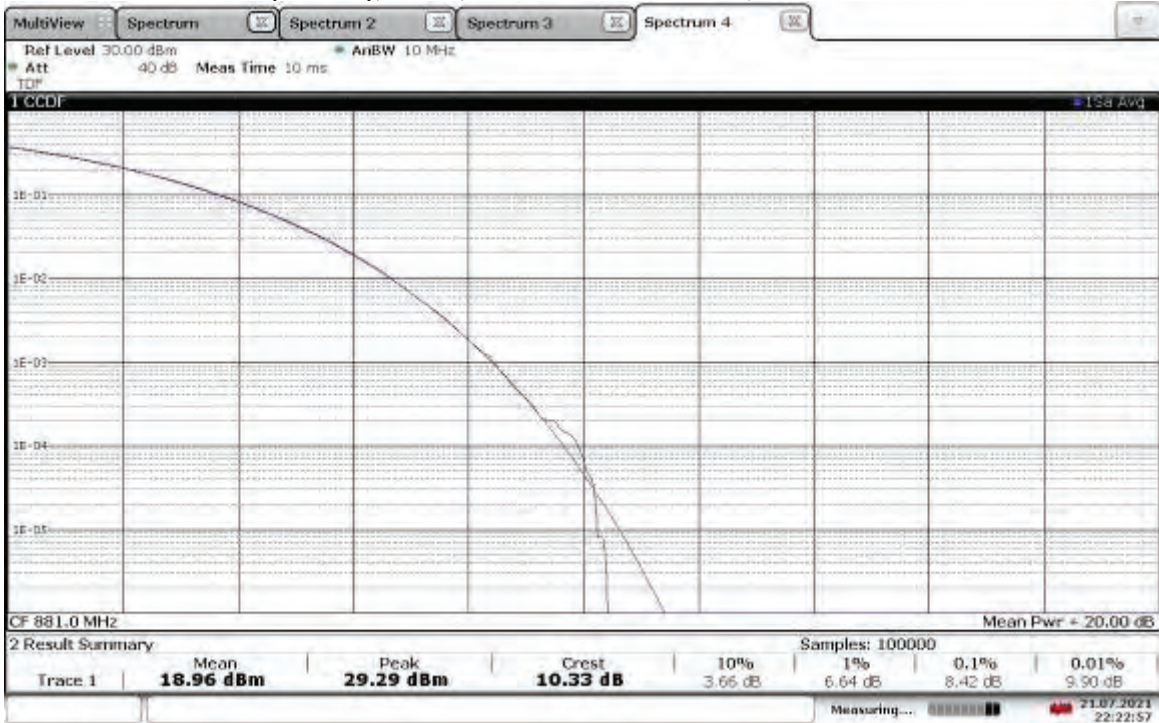
22:16:16 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth**  
**Slot 0 (Band 5), ANT1, Low Channel 876.5 MHz, PAPR = 10.10 dB**



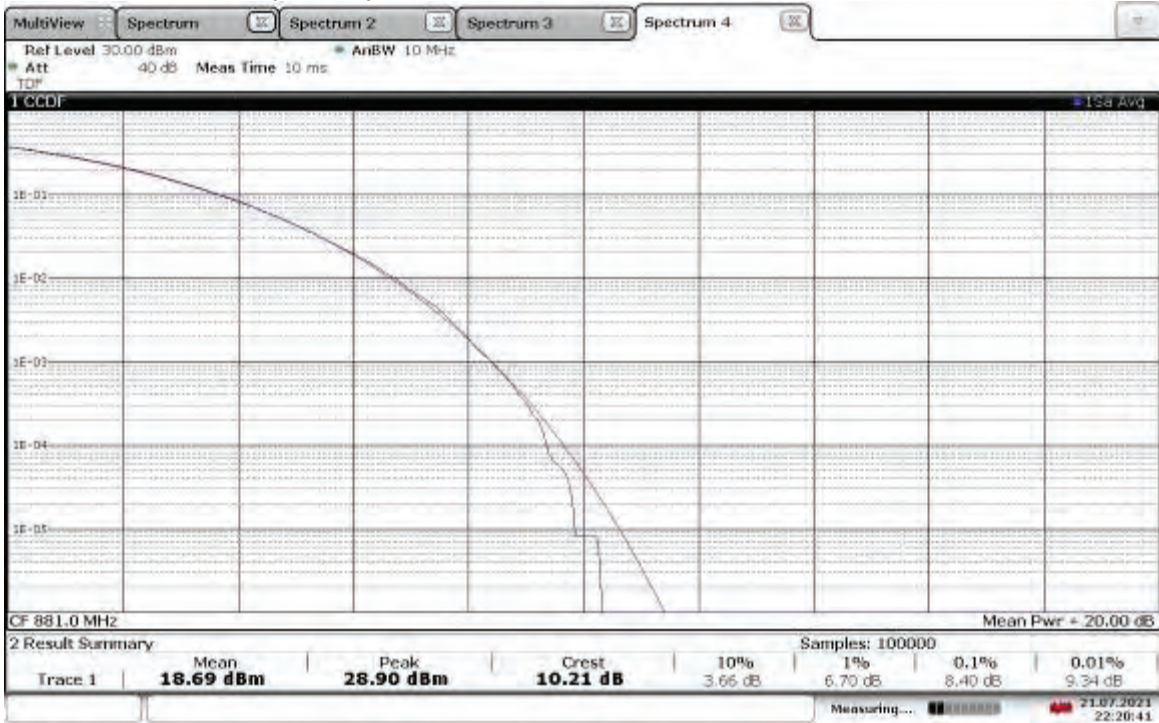
22:16:46 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 881 MHz, PAPR = 10.33 dB**



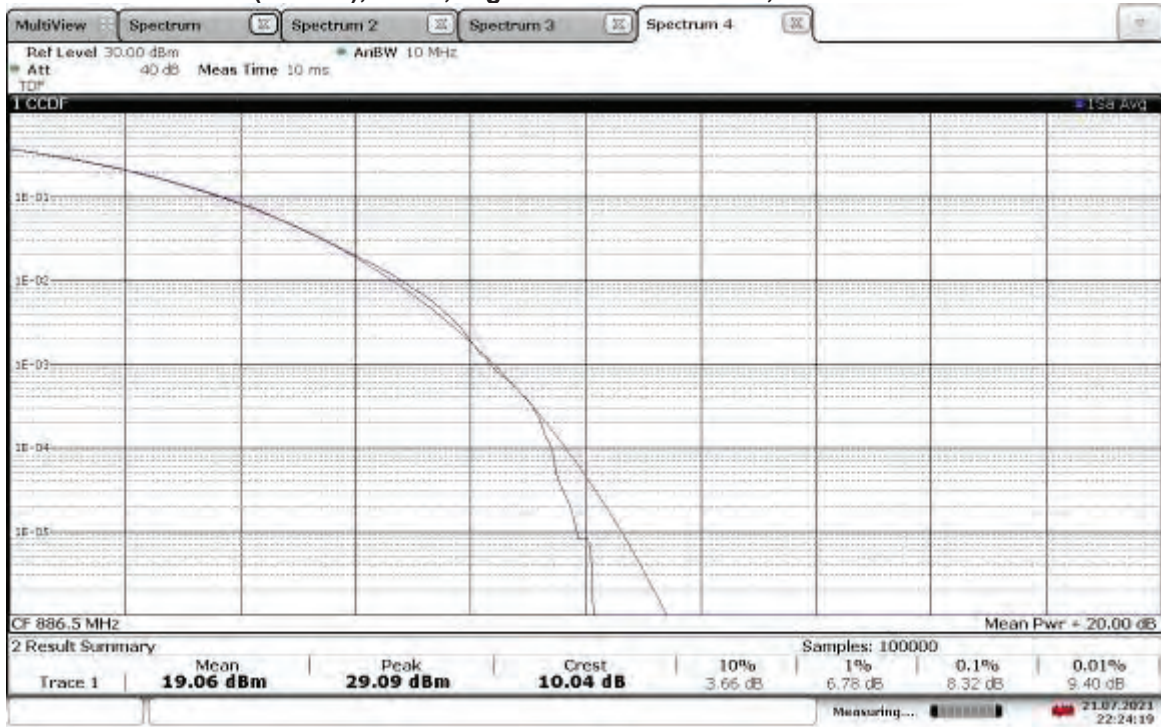
22:22:58 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 881 MHz, PAPR = 10.21 dB**



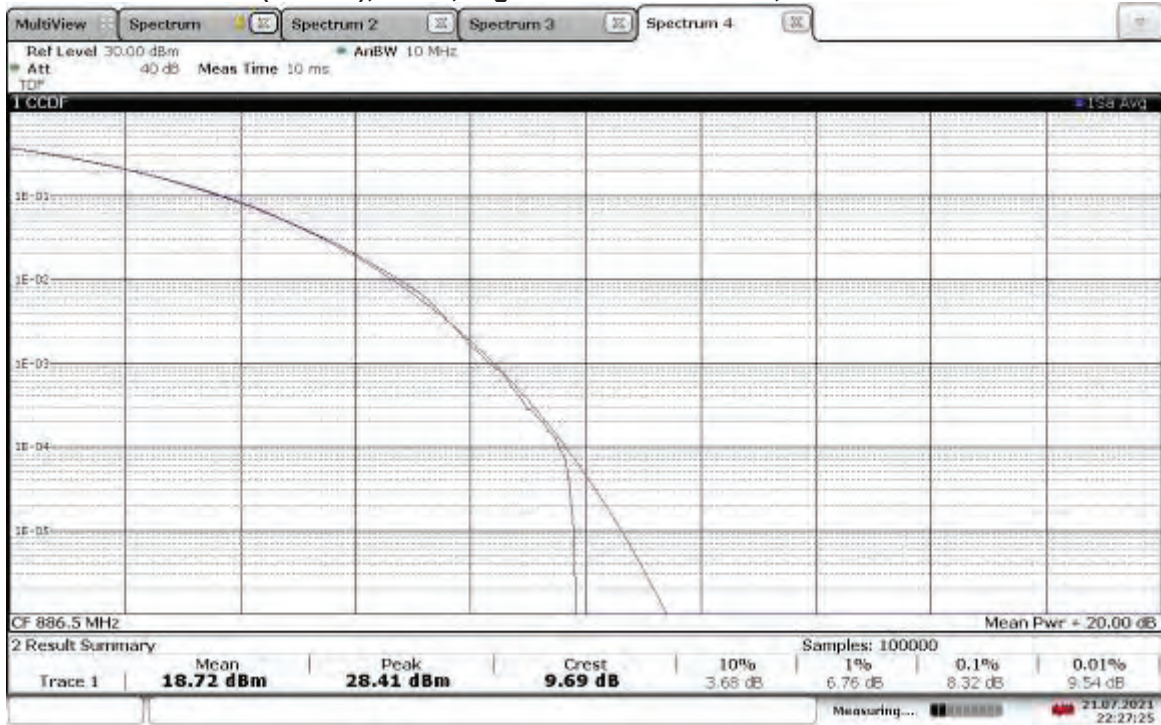
22:20:41 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth**  
**Slot 0 (Band 5), ANT0, High Channel 886.5 MHz, PAPR = 10.04 dB**



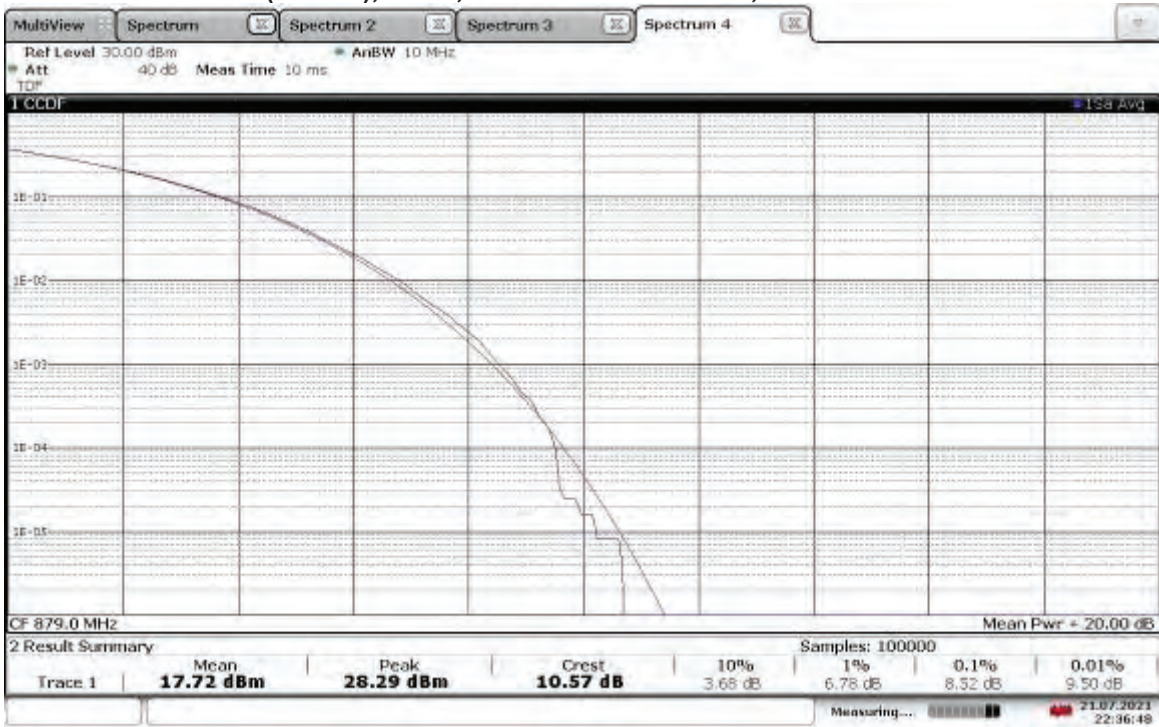
22:24:20 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth**  
**Slot 0 (Band 5), ANT1, High Channel 886.5 MHz, PAPR = 9.69 dB**



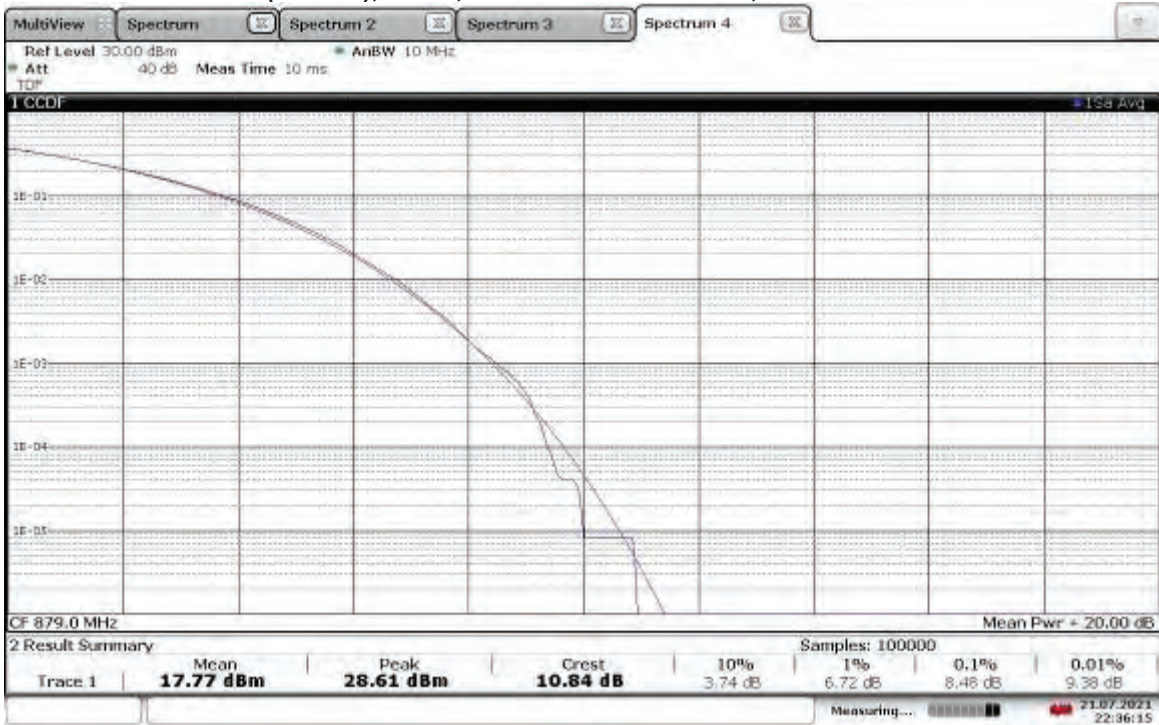
22:27:26 21.07.2021

**TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 879 MHz, PAPR = 10.57 dB**



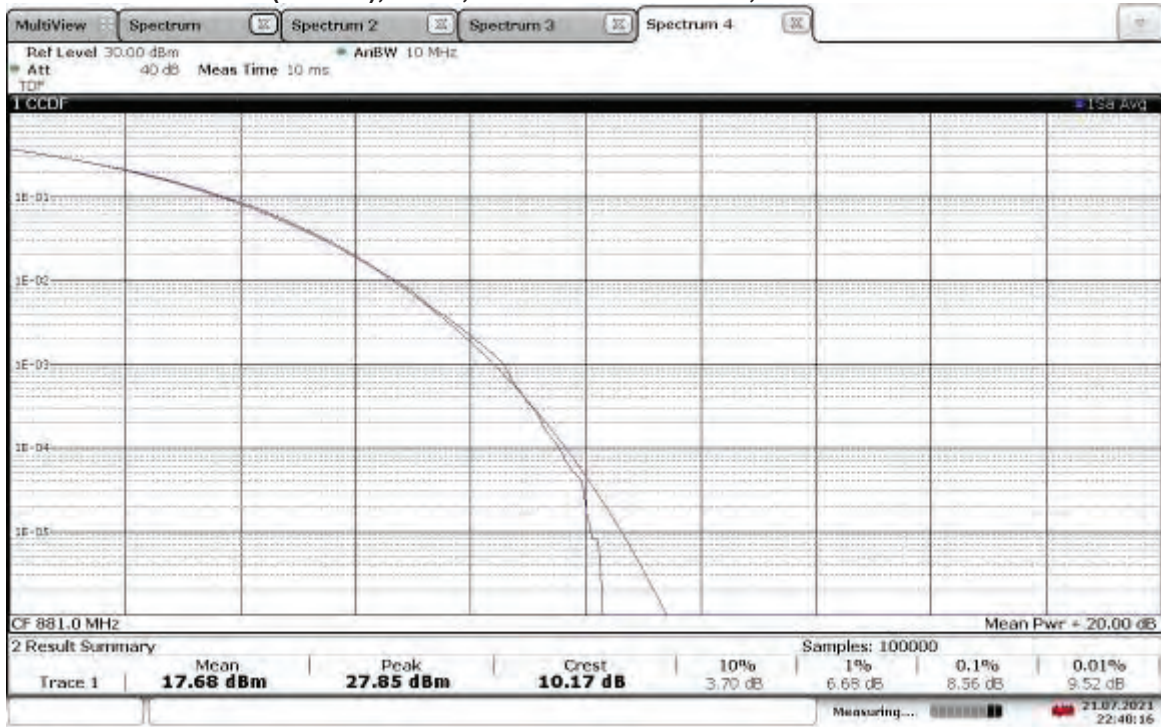
22:36:49 21.07.2021

**TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 879 MHz, PAPR = 10.84 dB**



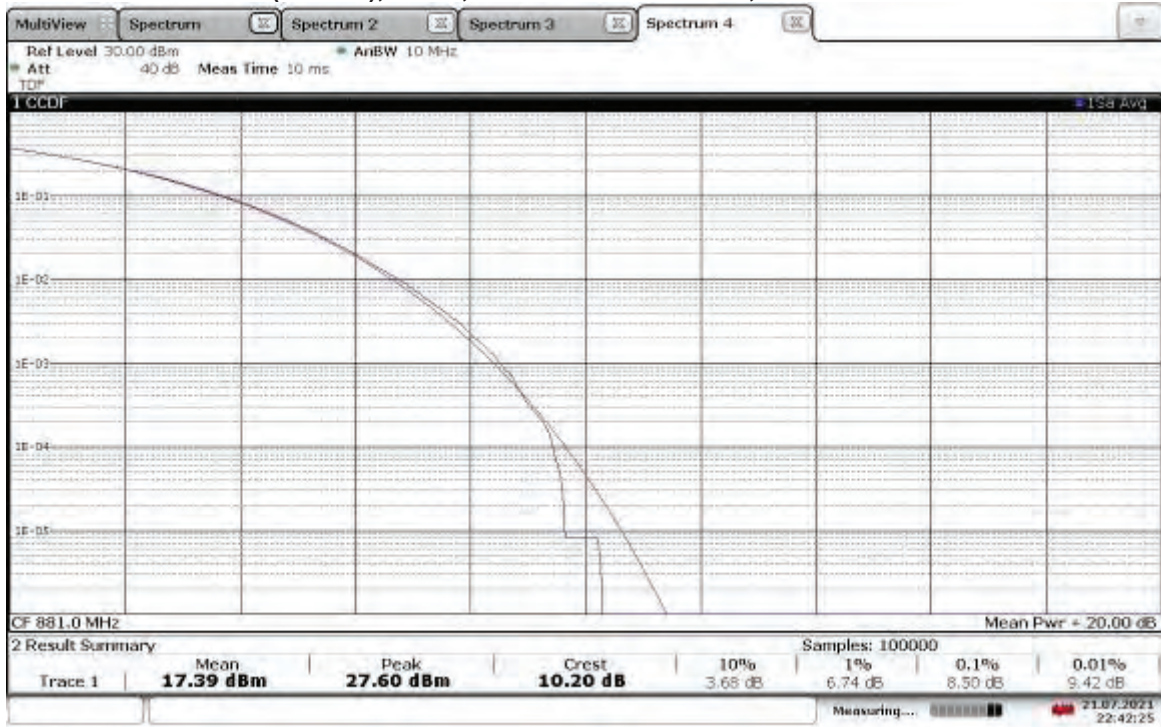
22:36:16 21.07.2021

**TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 881 MHz, PAPR = 10.17 dB**



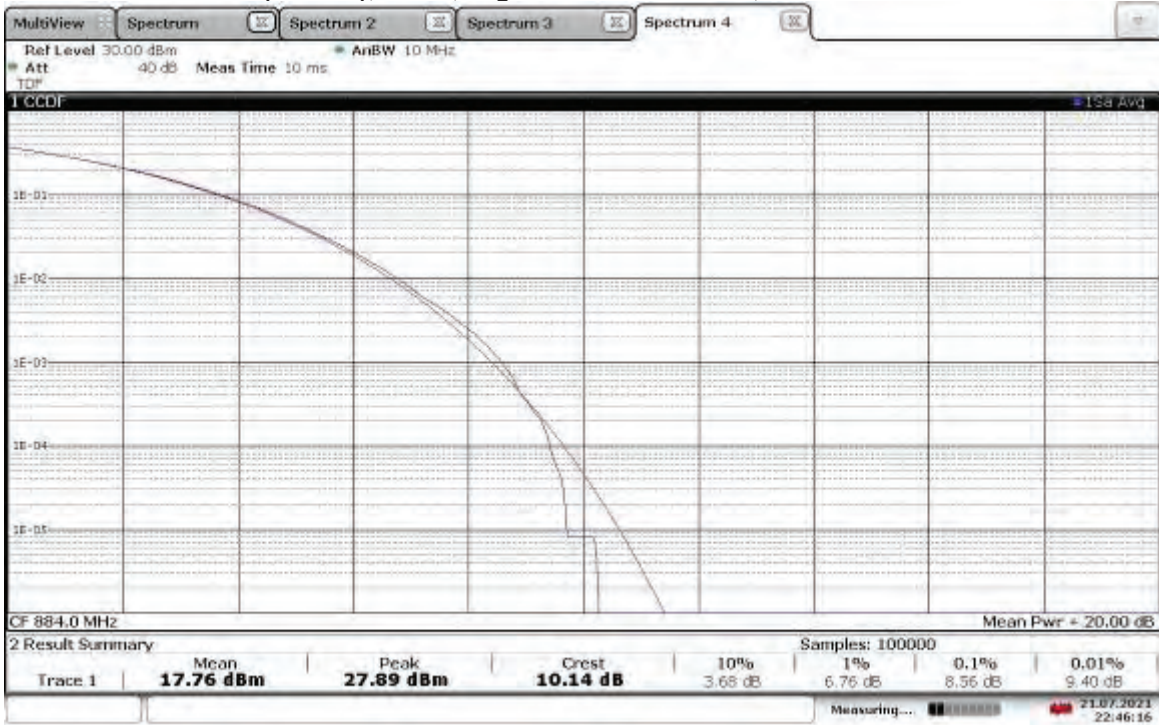
22:40:16 21.07.2021

**TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 881 MHz, PAPR = 10.20 dB**



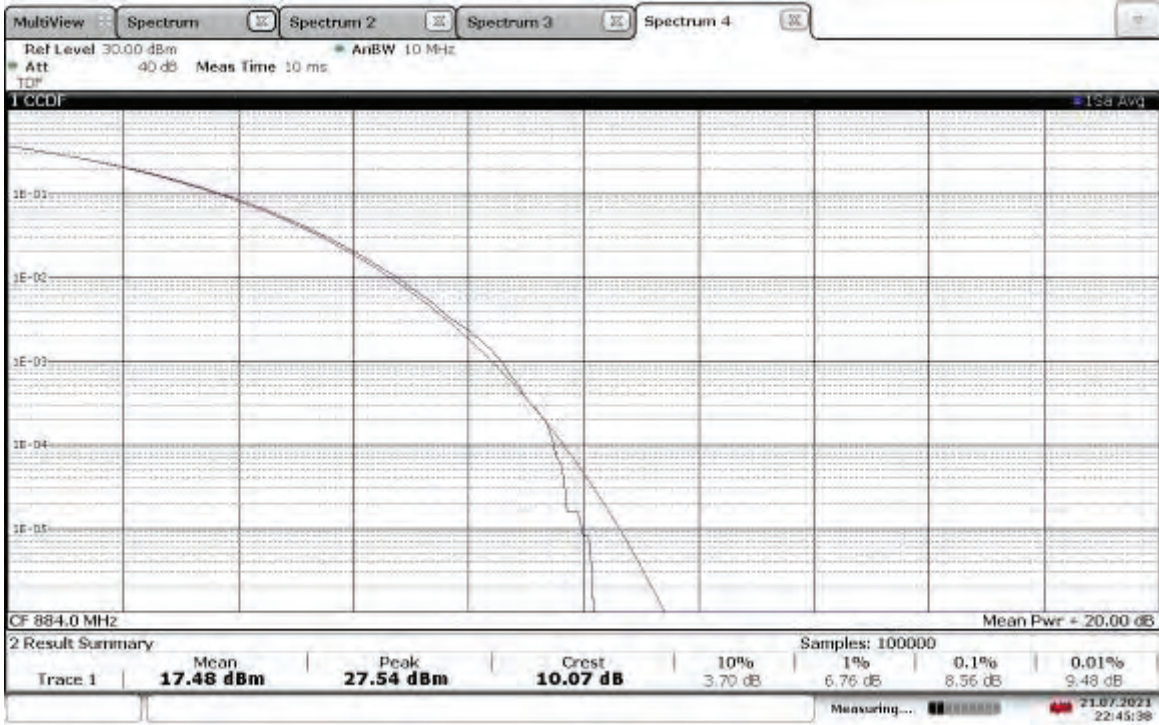
22:42:25 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 884 MHz, PAPR = 10.14 dB



22:46:18 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 879 MHz, PAPR = 10.07 dB




22:45:38 21.07.2021

# Intertek

Report Number: 104751739BOX-009

Issued: 10/12/2021  
Revised: 02/02/2022

Test Personnel: Vathana Ven   
Supervising/Reviewing  
Engineer:  
(Where Applicable) N/A

Test Date: 07/21/2021, 07/22/2021

Product Standard: FCC Part 22  
Input Voltage: 48 VDC (POE)

Limit Applied: See report section 7.3

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

Ambient Temperature: 22, 23 °C

Relative Humidity: 21, 15 %

Atmospheric Pressure: 1004, 1013 mbars

Deviations, Additions, or Exclusions: None



## 8 26 dB Bandwidth and Occupied Bandwidth

### 8.1 Method

Tests are performed in accordance with ANSI C63.26 and CFR47 FCC Parts 2.1049 and 22.

**TEST SITE:** EMC Lab

**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.

### 8.2 Test Equipment Used:

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	10/27/2020	10/27/2021
DAV005'	Weather Station	Davis	6250	MS19121808 3	02/07/2021	02/07/2022

#### Software Utilized:

Name	Manufacturer	Version
None	--	--

### 8.3 Results:

The sample tested was found to Comply.

§22.917(b) 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.

§2.1049: The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

# Intertek

Report Number: 104751739BOX-009

Issued: 10/12/2021  
Revised: 02/02/2022

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	871.5	ANT0	4.48	4.94
		ANT1	4.47	4.95
Mid	881	ANT0	4.47	4.96
		ANT1	4.47	4.95
High	891.5	ANT0	4.47	4.95
		ANT1	4.47	4.95

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	874	ANT0	9.29	10.09
		ANT1	9.29	10.05
Mid	881	ANT0	9.30	10.07
		ANT1	9.30	10.05
High	889	ANT0	9.30	10.07
		ANT1	9.30	10.07

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	876.5	ANT0	14.21	15.11
		ANT1	14.20	15.11
Mid	881	ANT0	14.23	15.44
		ANT1	14.24	15.46
High	886.5	ANT0	14.25	15.44
		ANT1	14.26	15.44

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	879	ANT0	18.91	20.34
		ANT1	18.90	20.30
Mid	881	ANT0	18.92	20.26
		ANT1	18.93	20.34
High	884	ANT0	18.93	20.34
		ANT1	18.95	20.26

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	871.5	ANT0	4.51	4.92
		ANT1	4.50	4.92
Mid	881	ANT0	4.51	4.92
		ANT1	4.51	4.93
High	891.5	ANT0	4.51	4.91
		ANT1	4.51	4.91

# Intertek

Report Number: 104751739BOX-009

Issued: 10/12/2021  
Revised: 02/02/2022

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	874	ANT0	9.24	9.91
		ANT1	9.24	9.91
Mid	881	ANT0	9.24	9.91
		ANT1	9.23	9.91
High	889	ANT0	9.25	9.94
		ANT1	9.25	9.94

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	876.5	ANT0	15.21	14.16
		ANT1	14.14	15.24
Mid	881	ANT0	14.18	15.31
		ANT1	14.18	15.18
High	886.5	ANT0	14.21	15.18
		ANT1	14.21	15.24

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	879	ANT0	18.98	20.10
		ANT1	18.98	20.10
Mid	881	ANT0	19.00	20.14
		ANT1	19.00	20.18
High	884	ANT0	19.00	20.22
		ANT1	19.03	20.18

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	871.5	ANT0	4.48	4.93
		ANT1	4.48	4.95
Mid	881	ANT0	4.48	4.95
		ANT1	4.48	4.95
High	891.5	ANT0	4.48	4.95
		ANT1	4.48	4.95

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	874	ANT0	9.30	10.05
		ANT1	9.30	10.03
Mid	881	ANT0	9.30	10.03
		ANT1	9.30	10.01
High	889	ANT0	9.30	10.03
		ANT1	9.31	10.05

# Intertek

Report Number: 104751739BOX-009

Issued: 10/12/2021  
Revised: 02/02/2022

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	876.5	ANT0	14.14	15.35
		ANT1	14.13	15.31
Mid	881	ANT0	14.16	15.35
		ANT1	14.16	15.31
High	886.5	ANT0	14.20	15.38
		ANT1	14.20	15.38

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	879	ANT0	18.93	20.34
		ANT1	18.90	20.30
Mid	881	ANT0	18.95	20.34
		ANT1	18.91	20.34
High	884	ANT0	18.96	20.38
		ANT1	18.97	20.42

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	871.5	ANT0	4.48	4.95
		ANT1	4.48	4.96
Mid	881	ANT0	4.48	4.96
		ANT1	4.48	4.96
High	891.5	ANT0	4.48	4.96
		ANT1	4.48	4.96

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	874	ANT0	9.29	10.03
		ANT1	9.29	10.03
Mid	881	ANT0	9.30	10.05
		ANT1	9.30	10.05
High	889	ANT0	9.30	10.05
		ANT1	9.30	10.05

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

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	876.5	ANT0	14.14	15.29
		ANT1	14.13	15.35
Mid	881	ANT0	14.16	15.40
		ANT1	14.16	15.40
High	886.5	ANT0	14.18	15.40
		ANT1	14.14	15.40

# Intertek

Report Number: 104751739BOX-009

Issued: 10/12/2021  
Revised: 02/02/2022

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

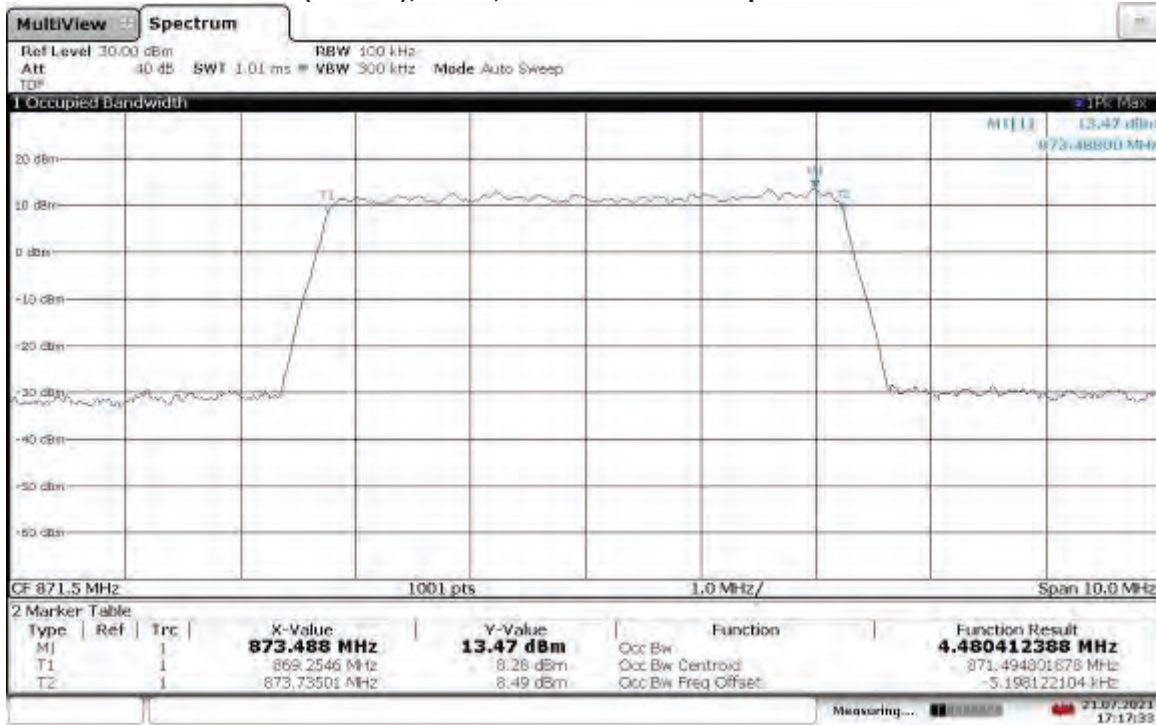
Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	879	ANT0	18.95	20.46
		ANT1	18.95	20.46
Mid	881	ANT0	18.97	20.42
		ANT1	18.98	20.46
High	884	ANT0	18.98	20.46
		ANT1	19.00	20.46

**8.4 Setup Photograph:**

Photographs are available in a separate exhibit

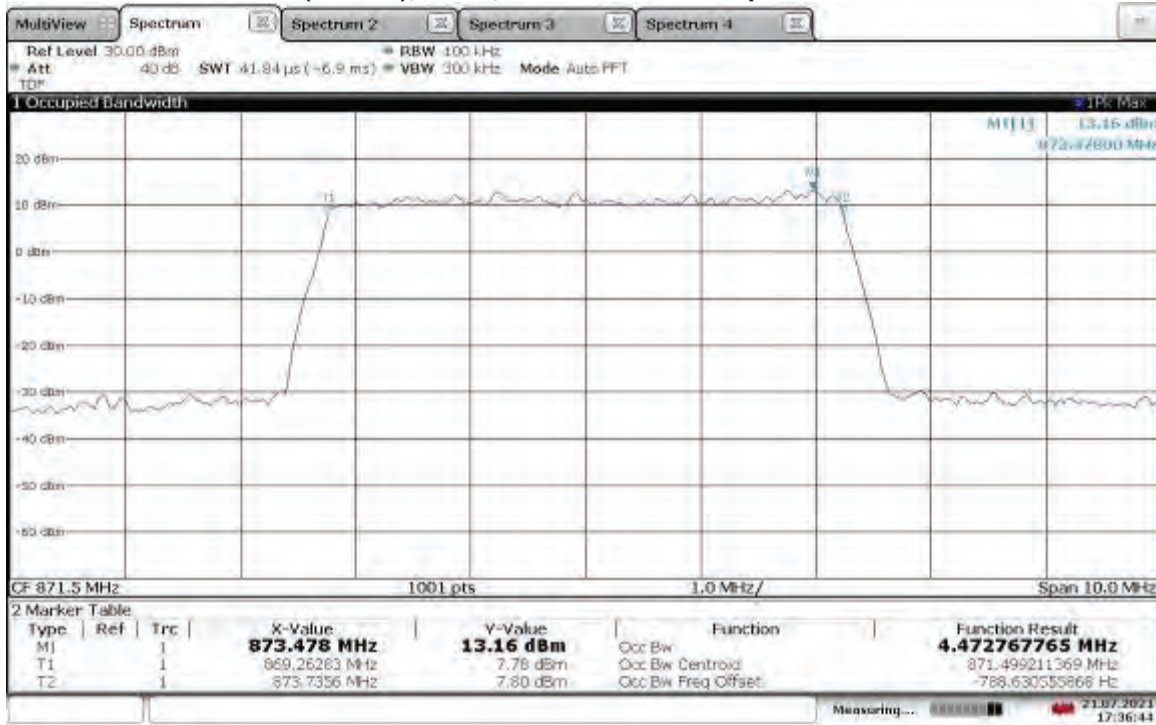
8.5 Plots/Data:

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



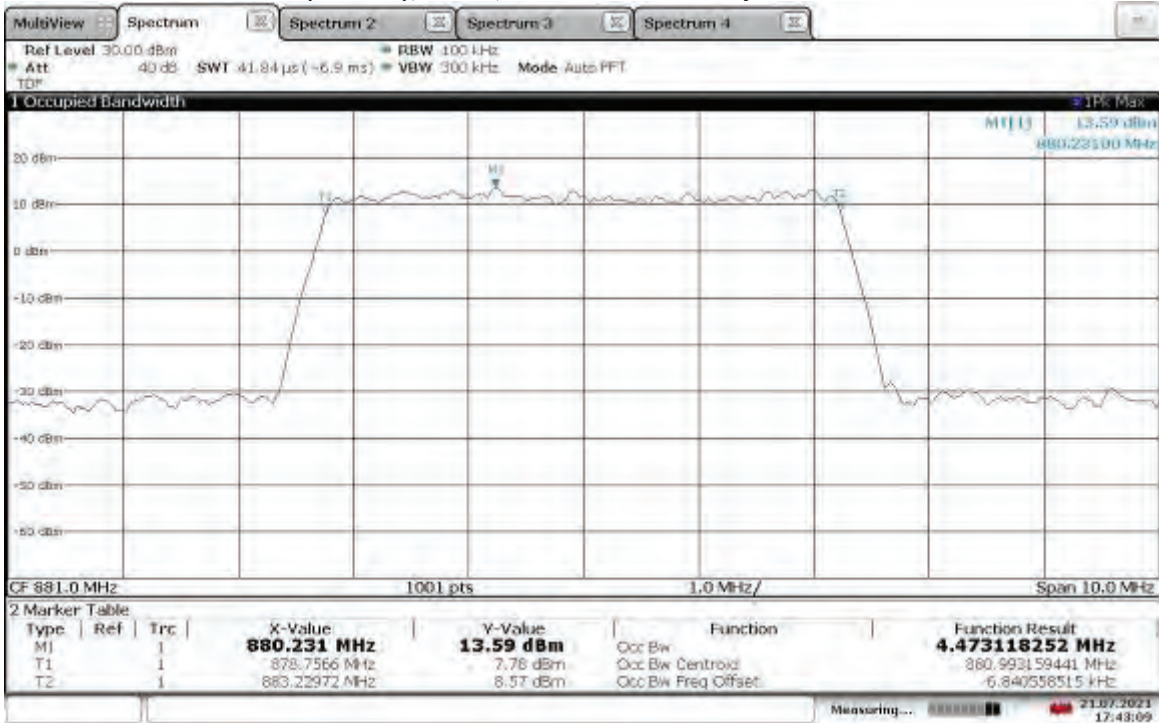
17:17:33 21.07.2021

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



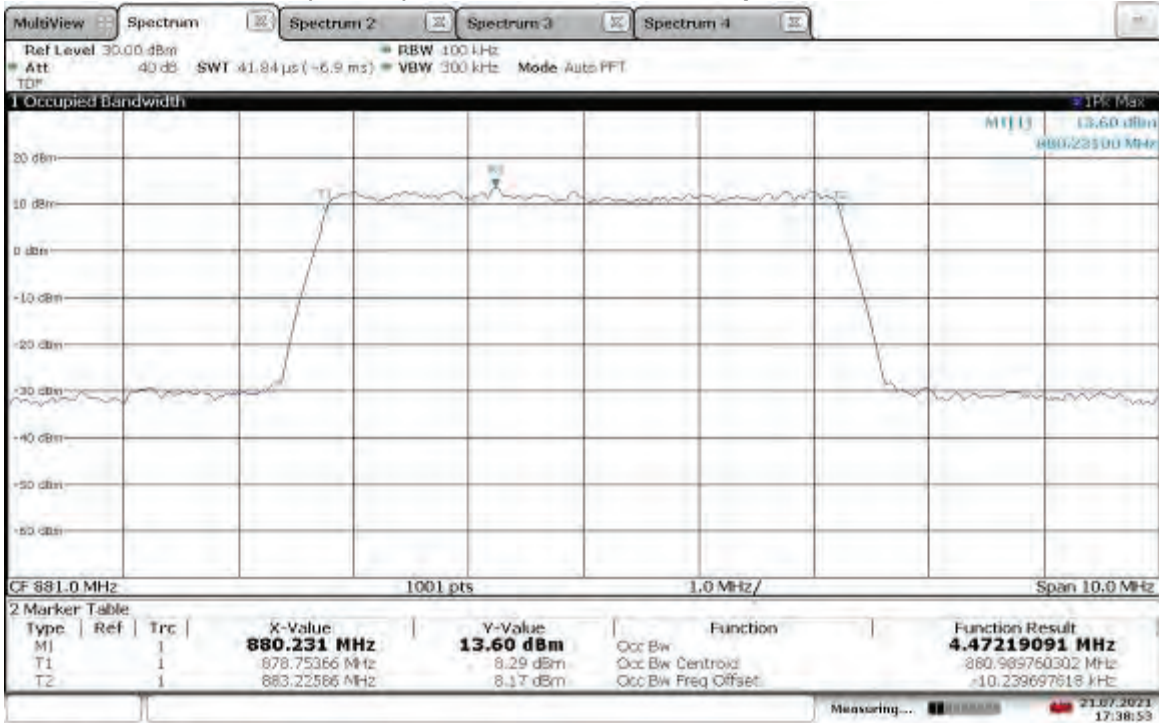
17:36:44 21.07.2021

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



17:43:10 21.07.2021

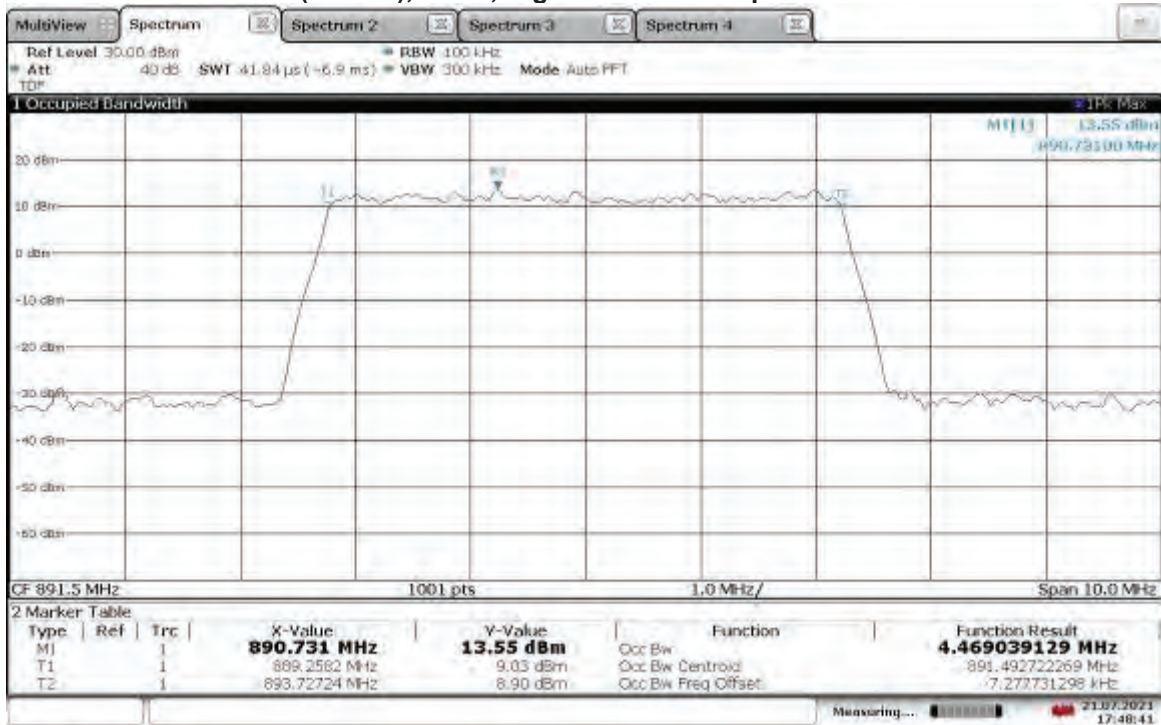
TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



17:38:53 21.07.2021

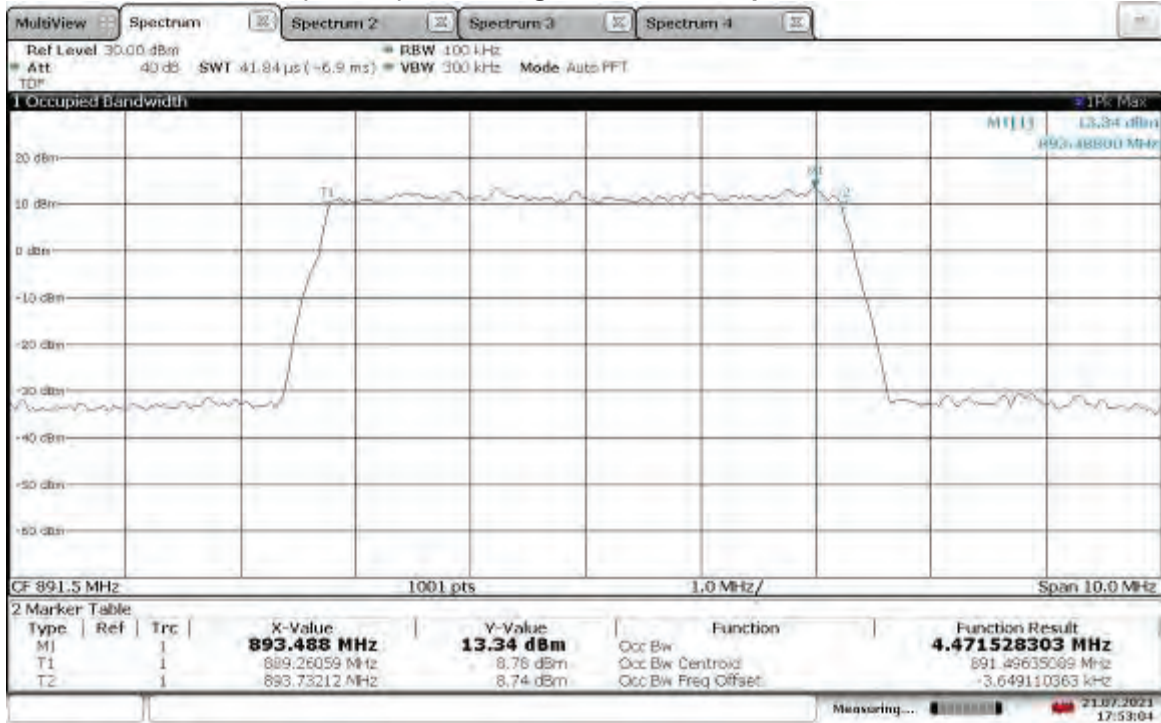


**TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



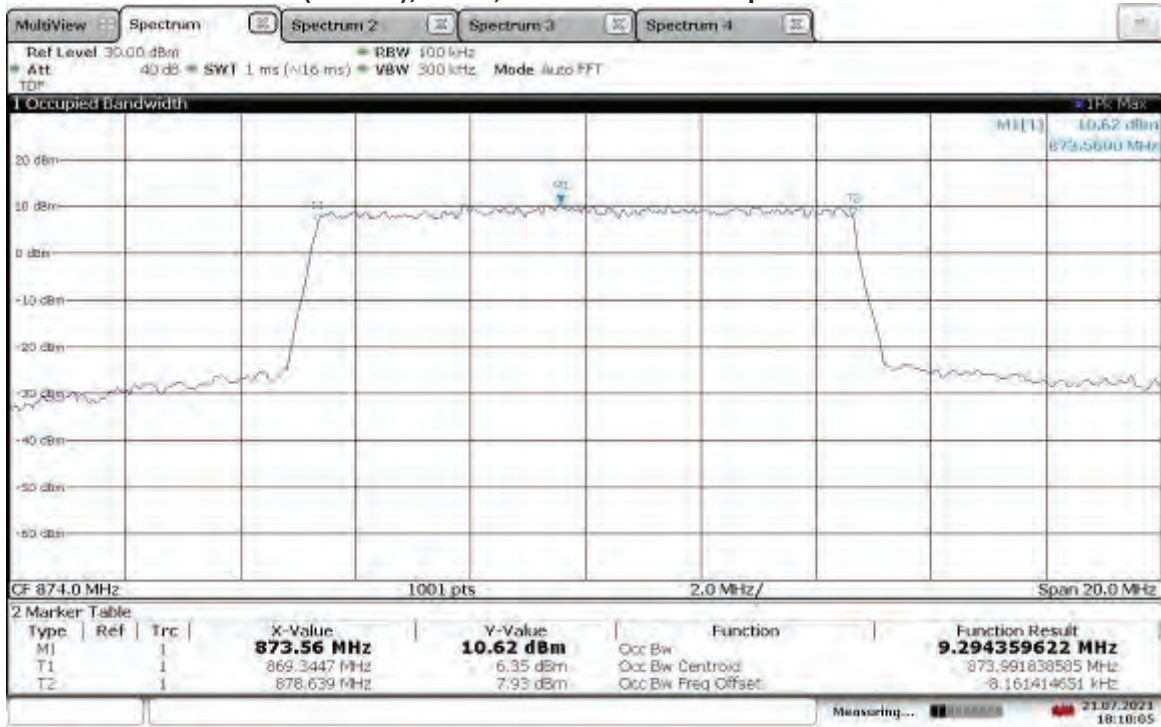
17:48:41 21.07.2021

**TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



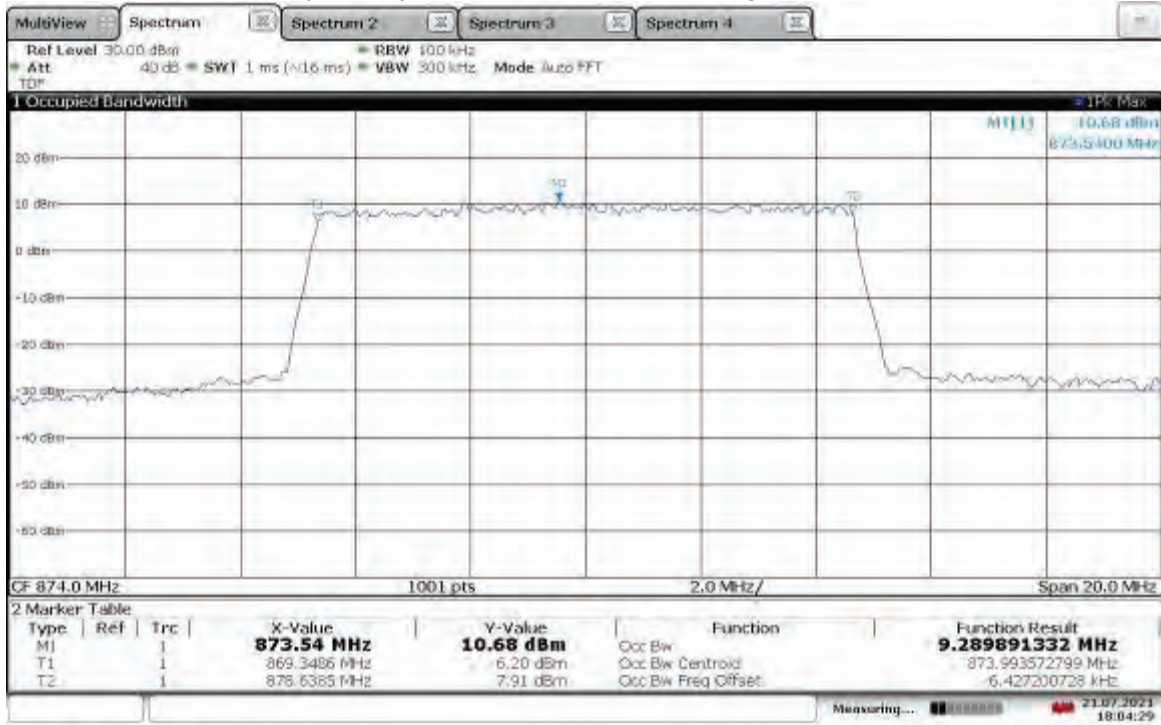
17:53:04 21.07.2021

**TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth**



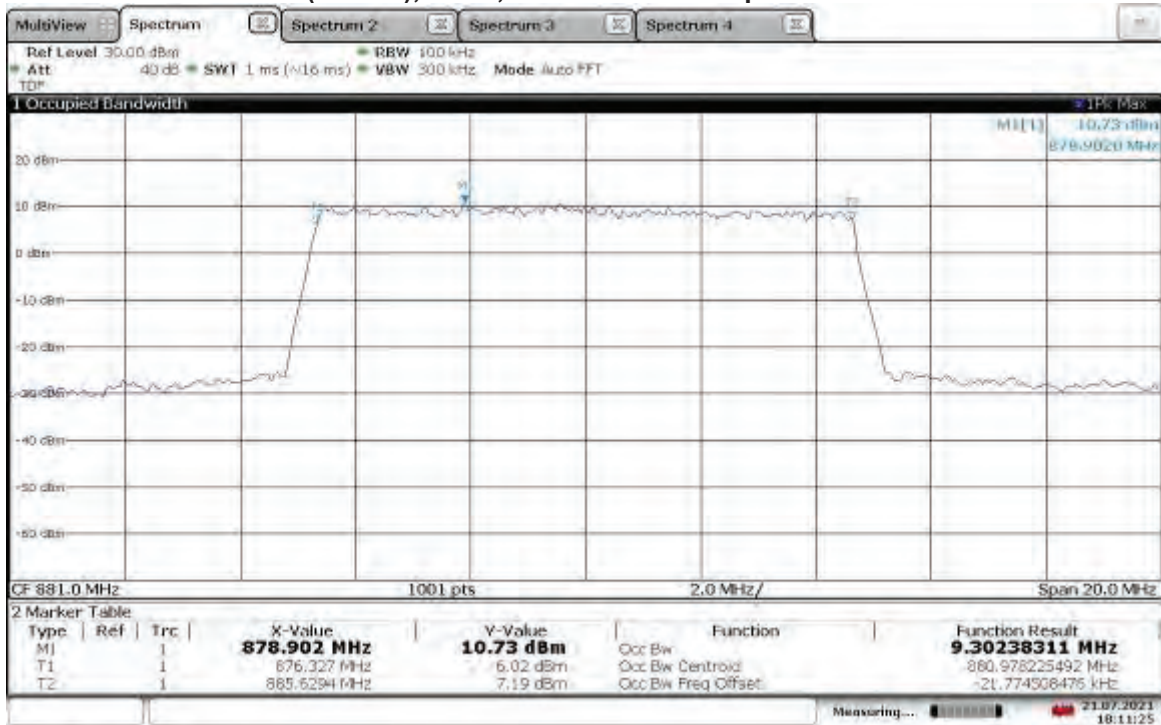
18:10:05 21.07.2021

**TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth**



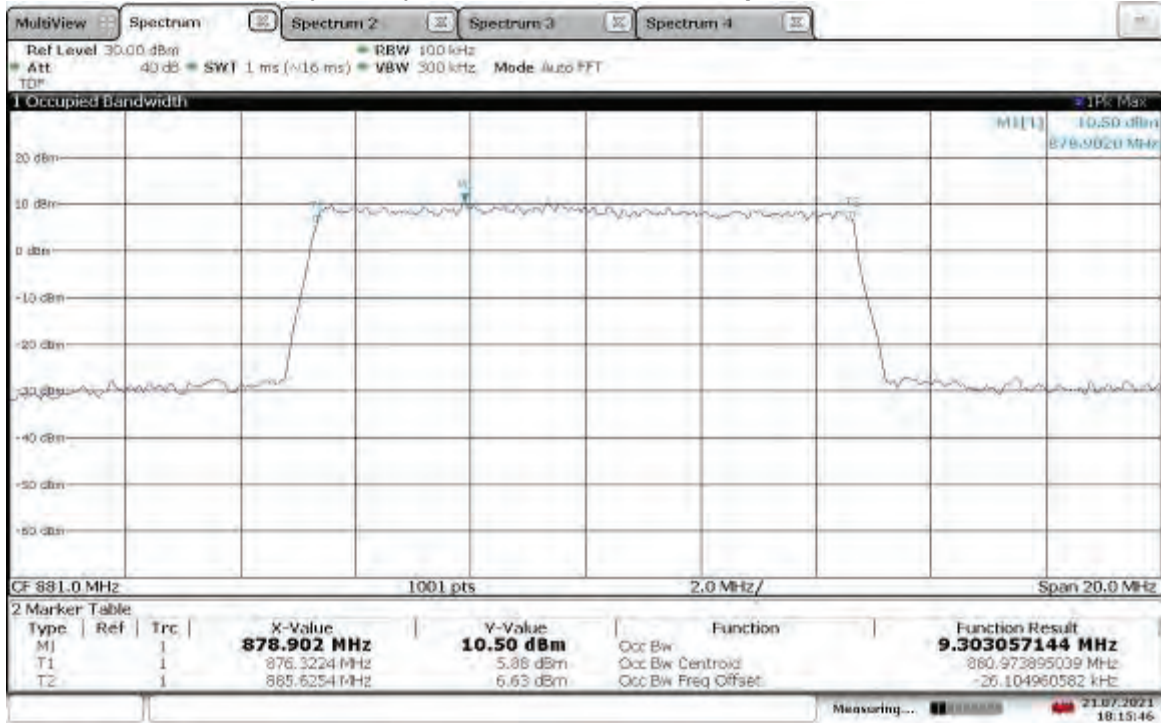
18:04:29 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



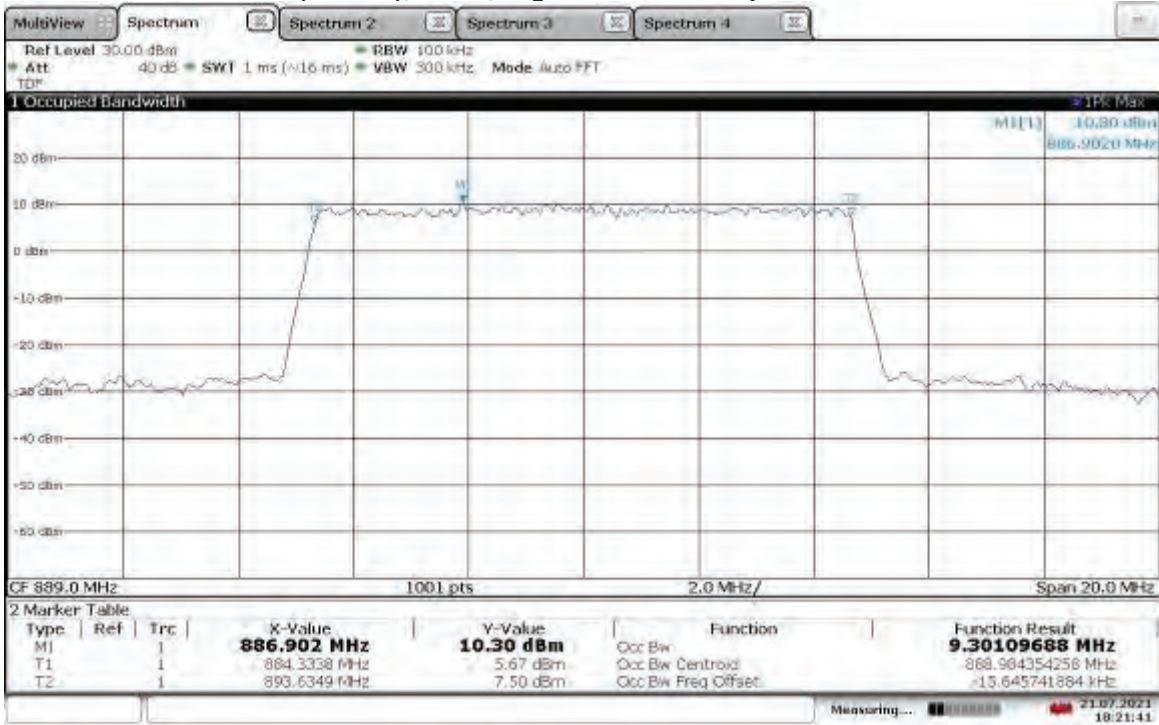
18:11:25 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



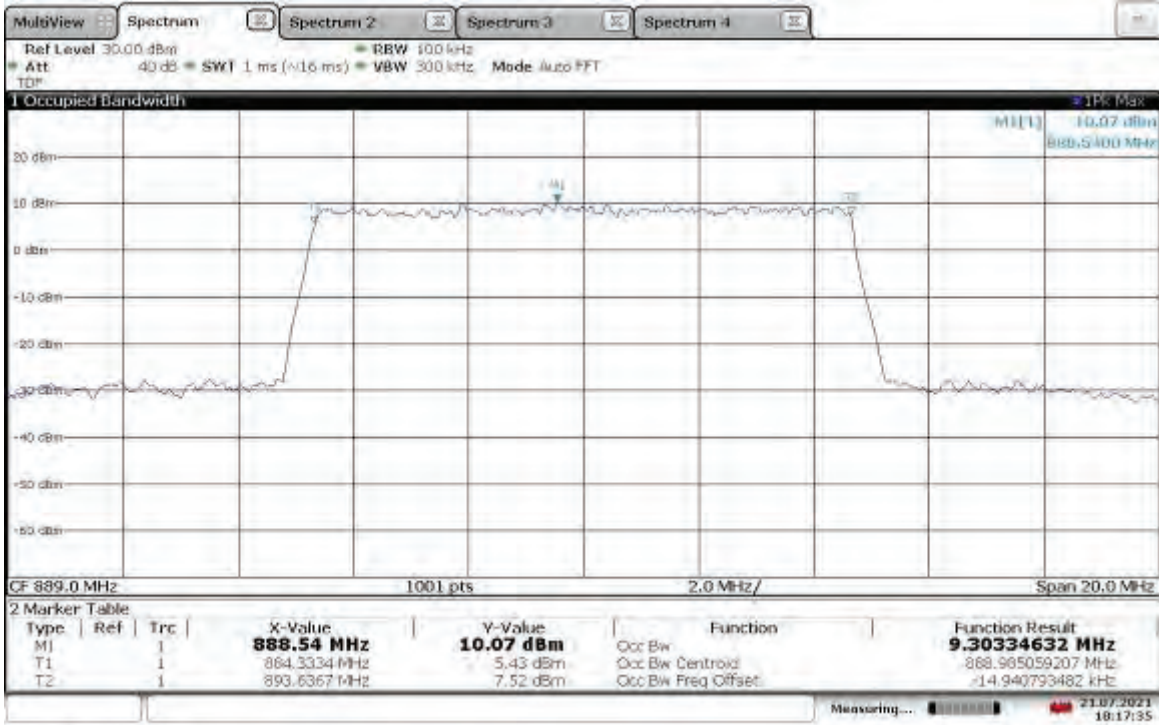
18:15:47 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth



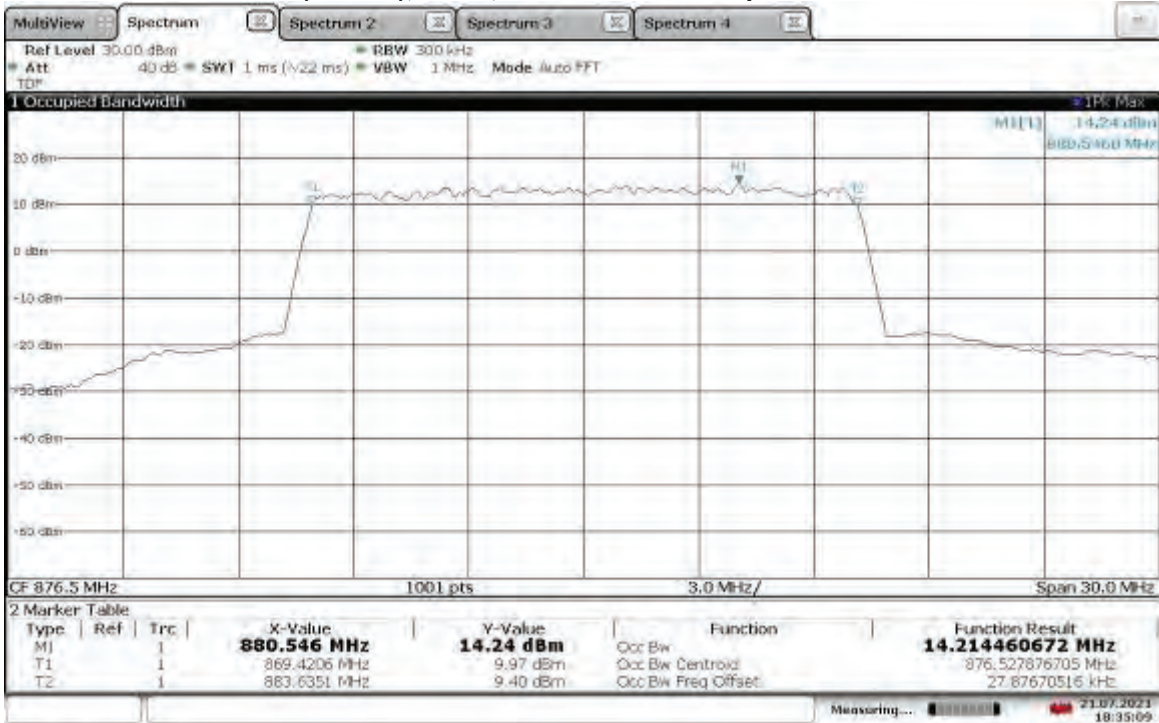
18:21:42 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth



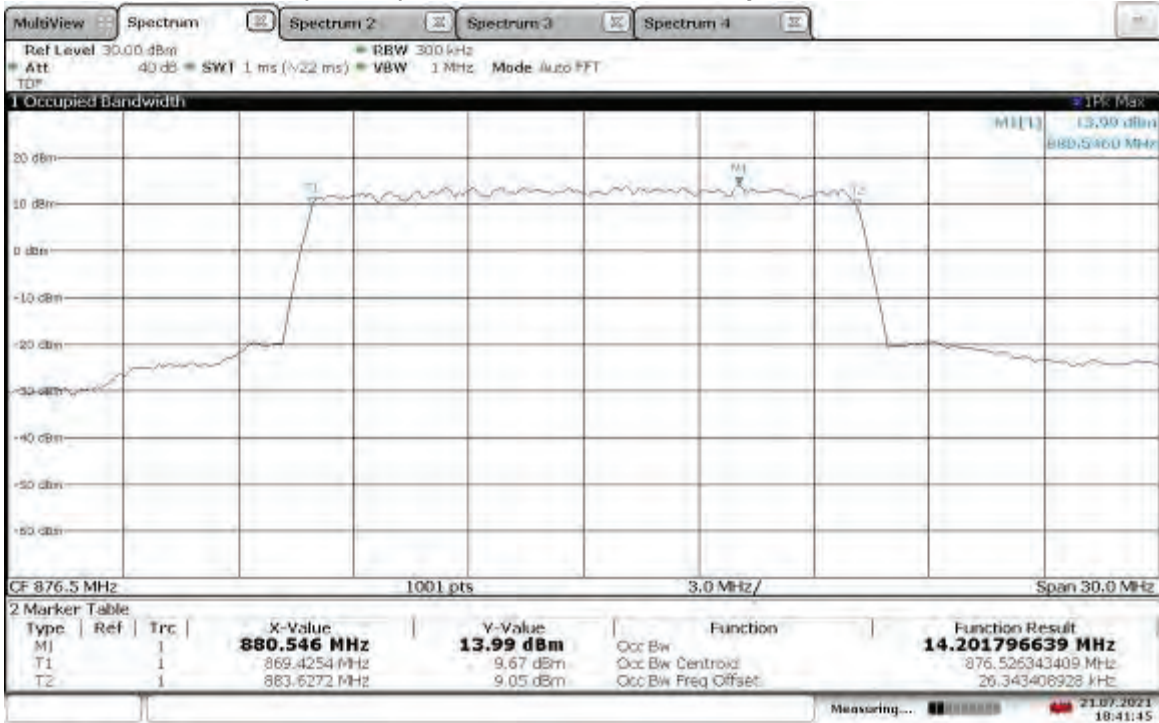
18:17:35 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



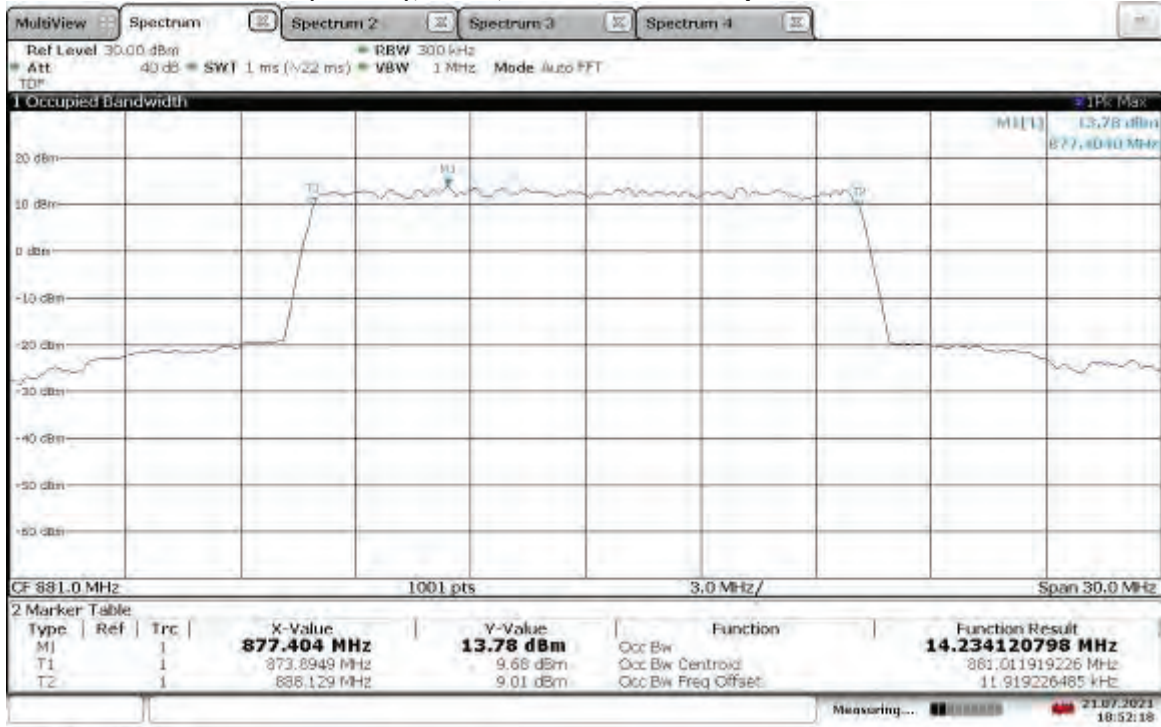
18:35:10 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



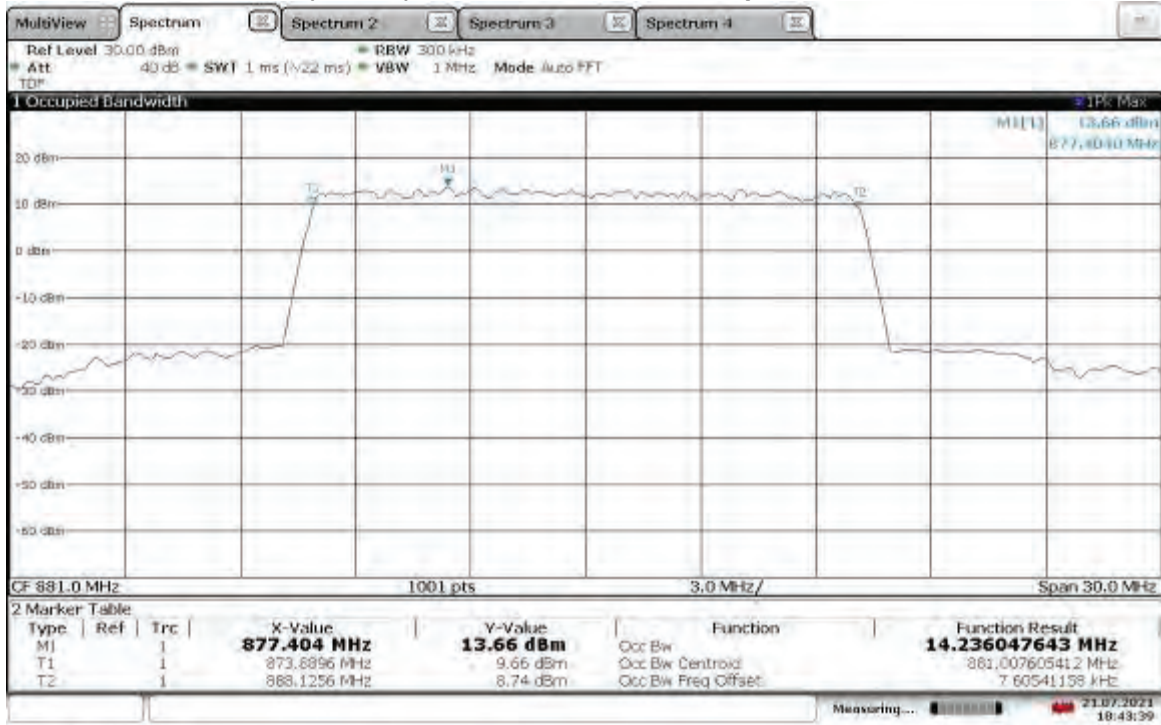
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TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



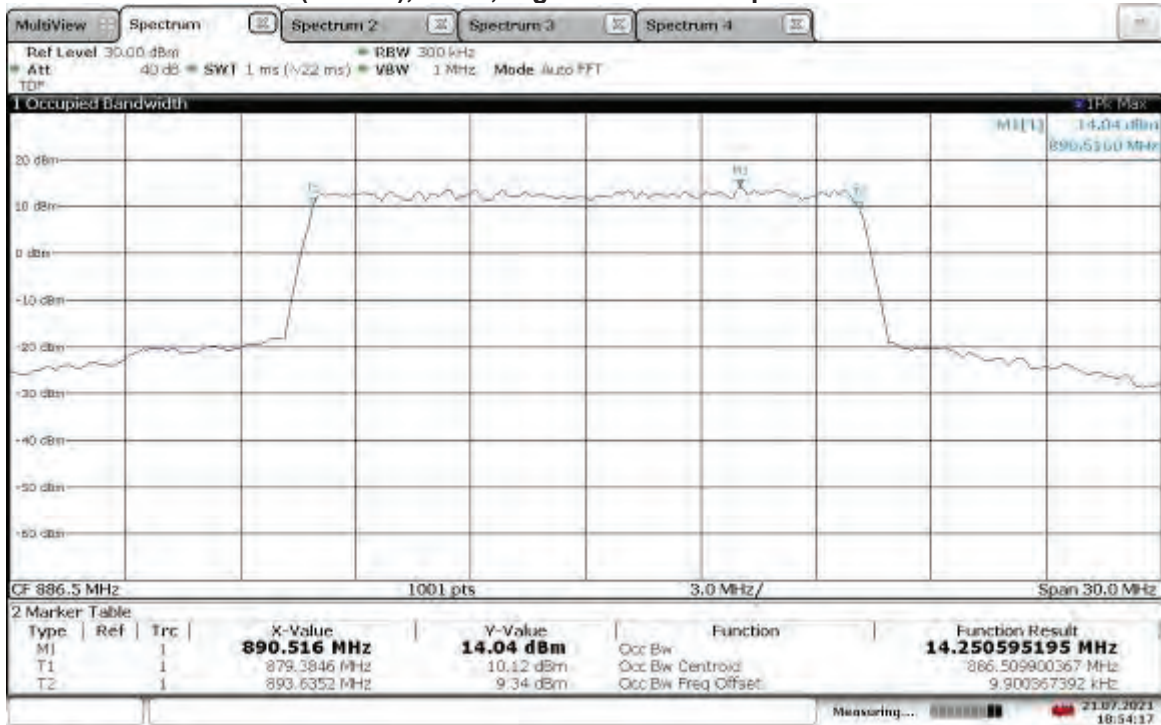
18:52:19 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



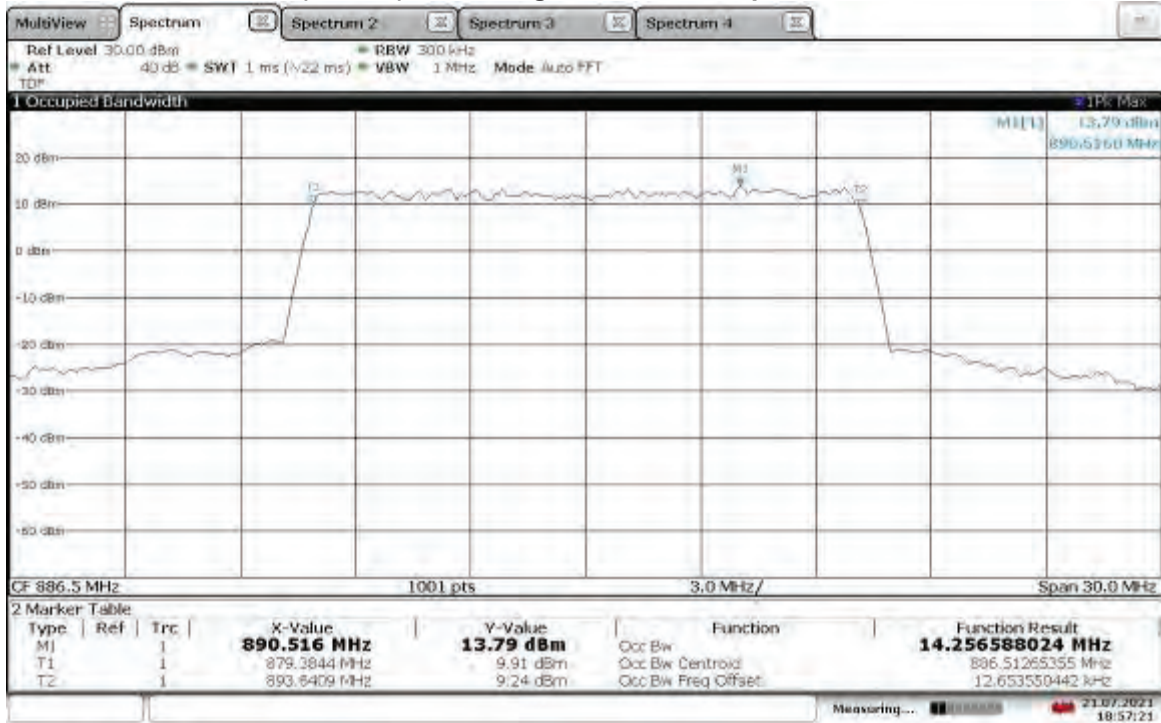
18:43:39 21.07.2021

**TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



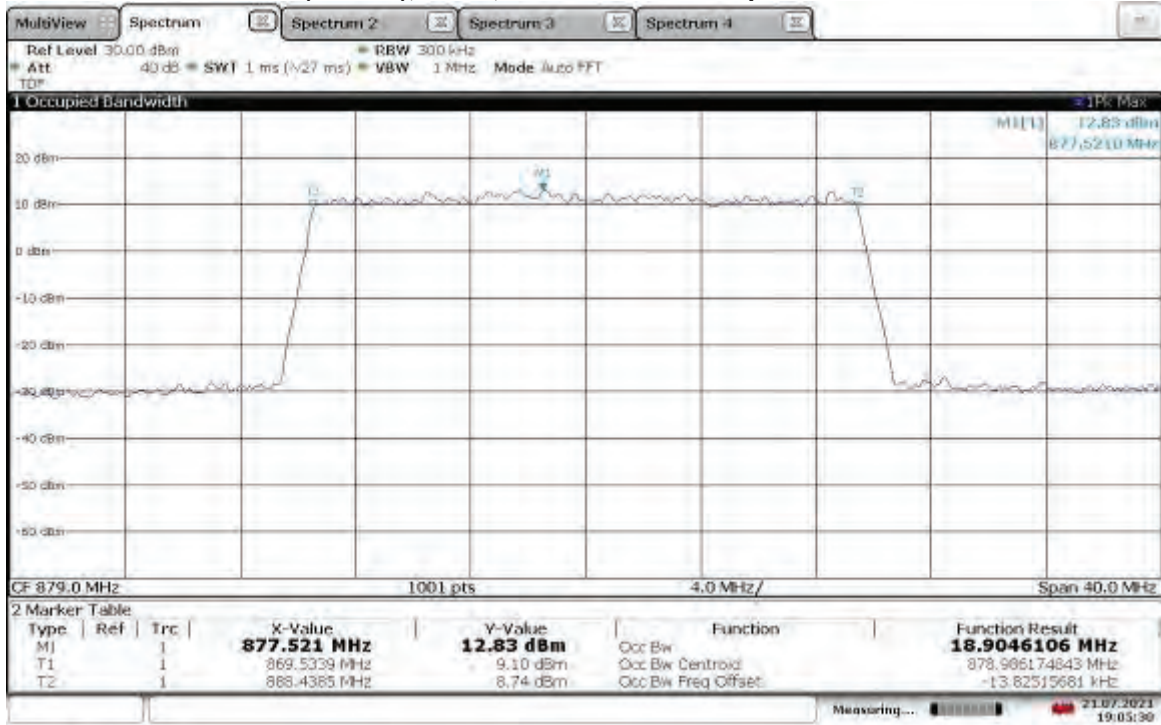
18:54:18 21.07.2021

**TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



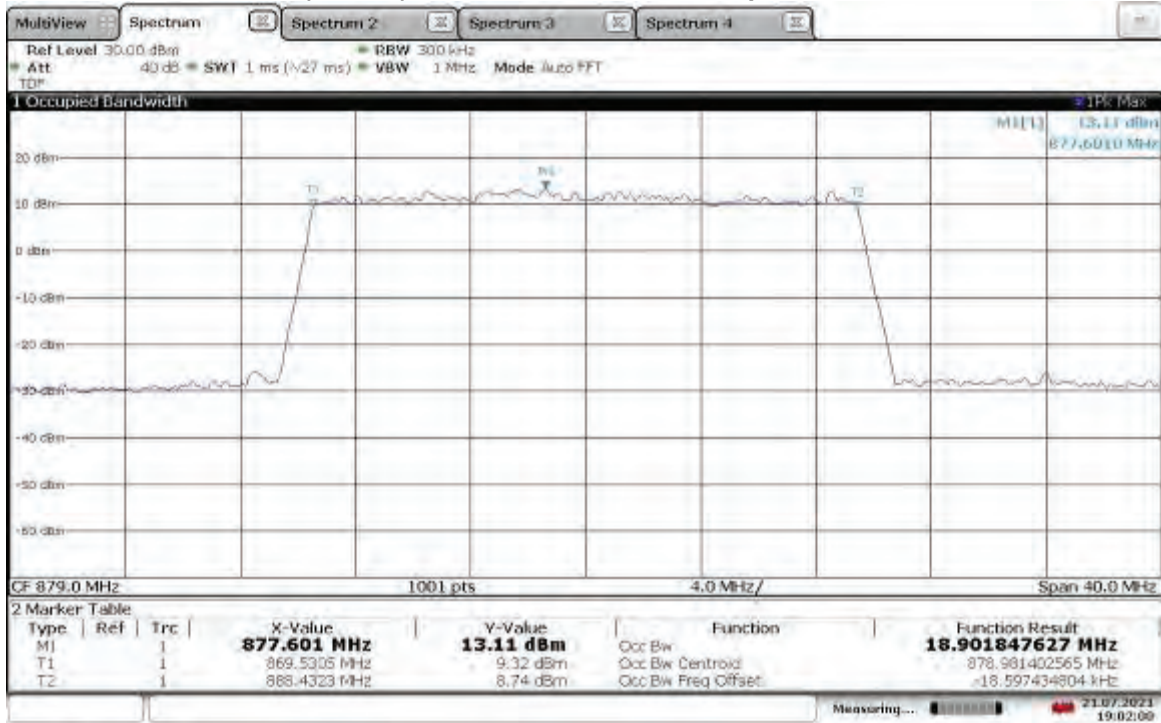
18:57:21 21.07.2021

TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



19:05:30 21.07.2021

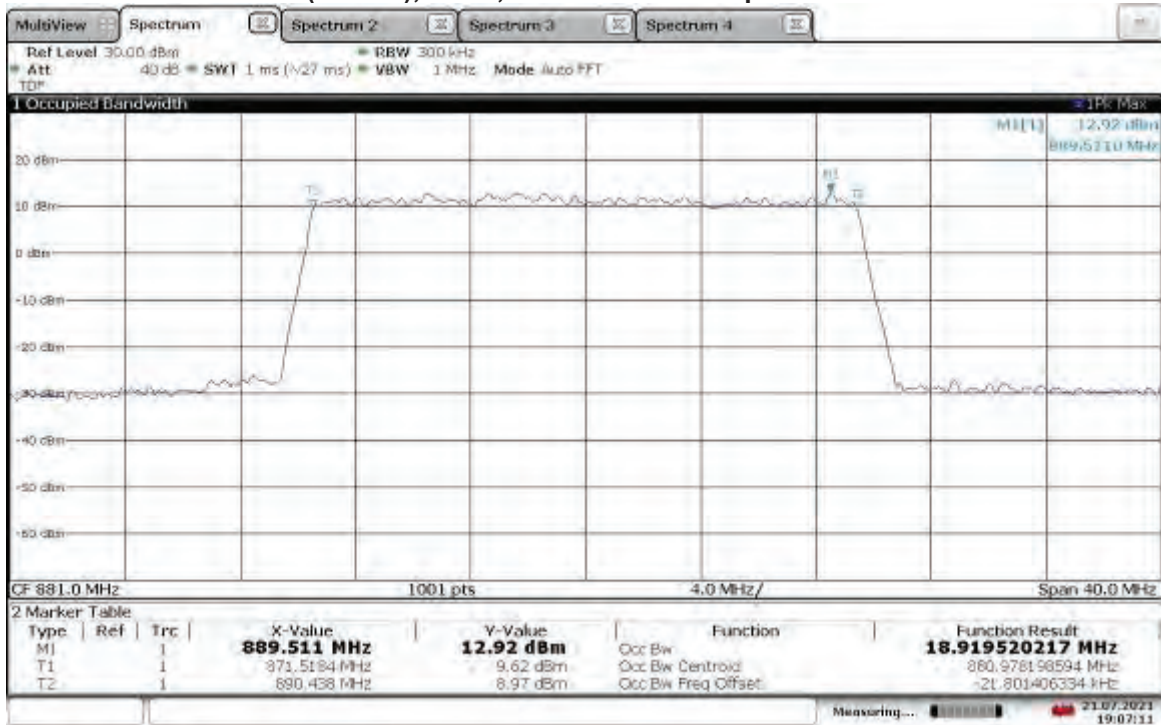
TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



19:02:00 21.07.2021

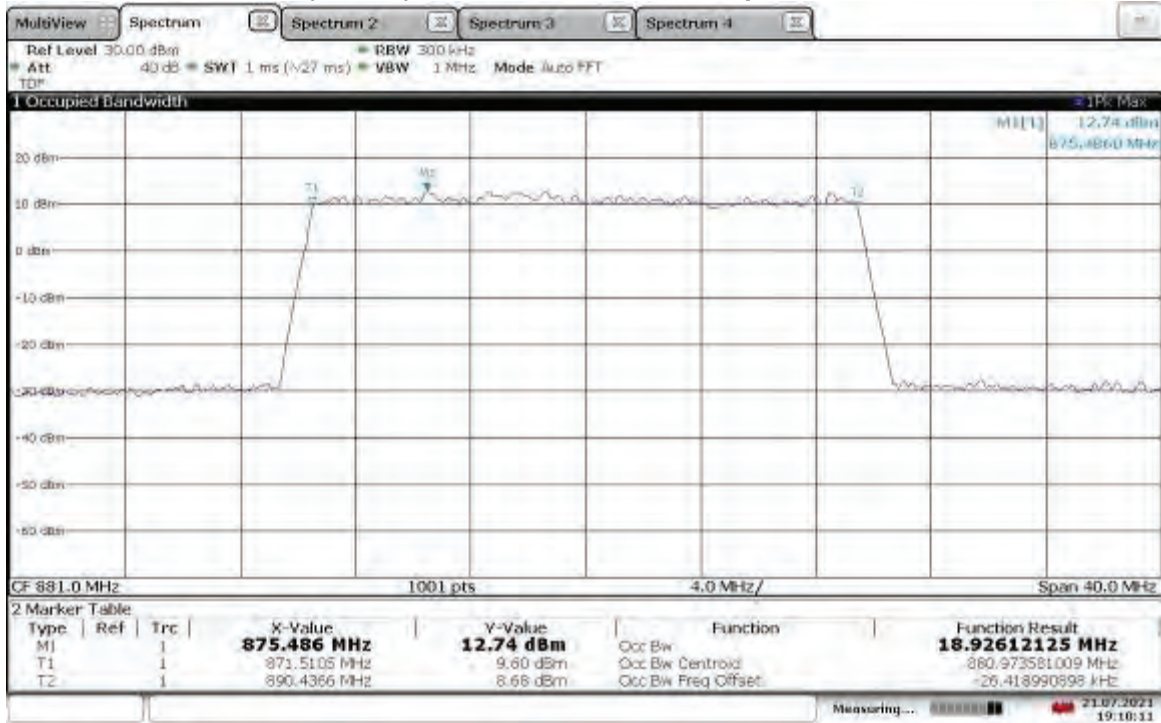


TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



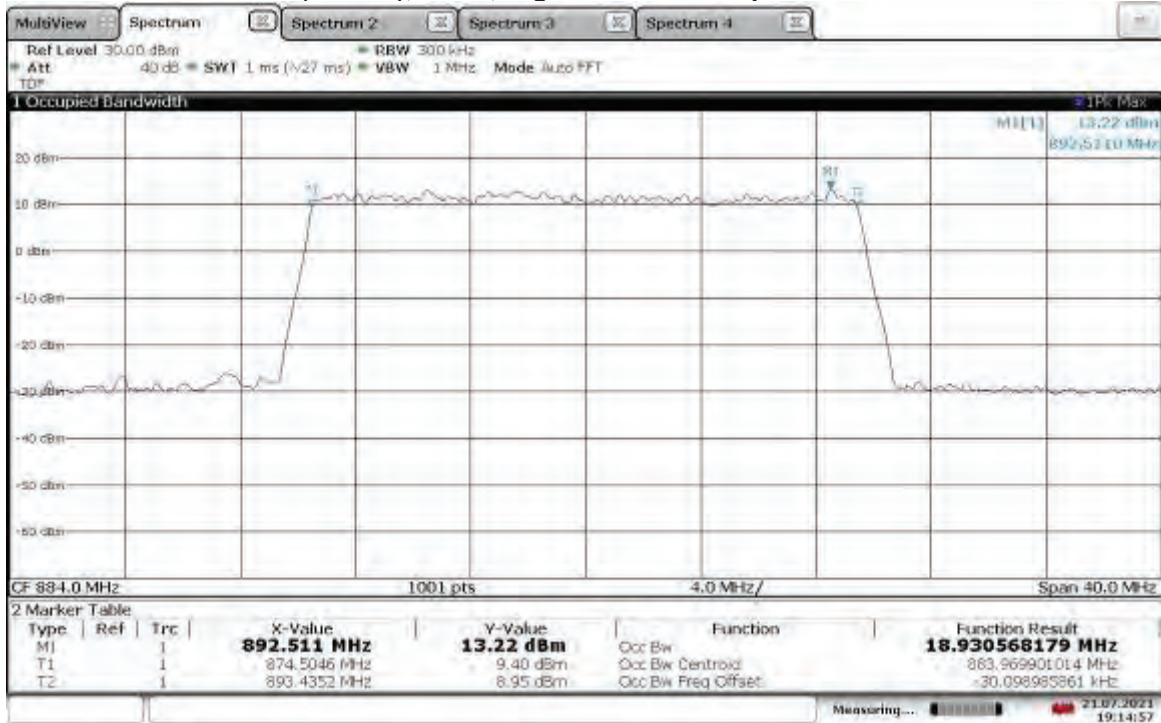
19:07:11 21.07.2021

TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



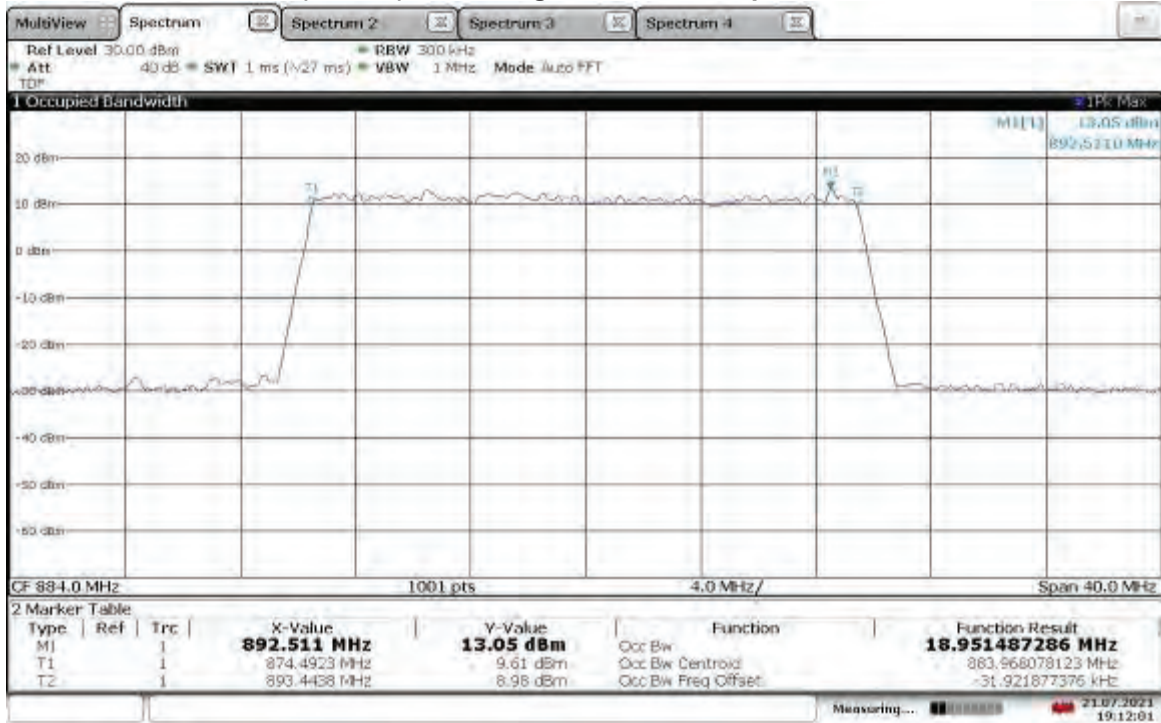
19:10:12 21.07.2021

**TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 0), ANT0, High Channel Occupied Bandwidth**



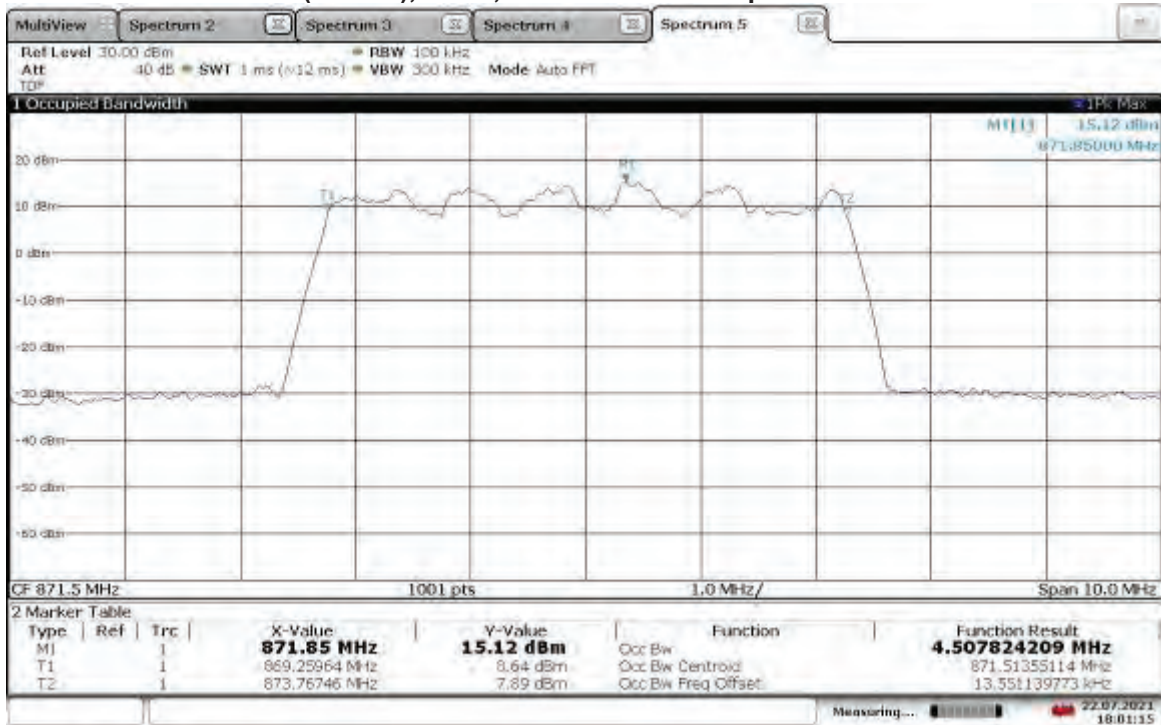
19:14:57 21.07.2021

**TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



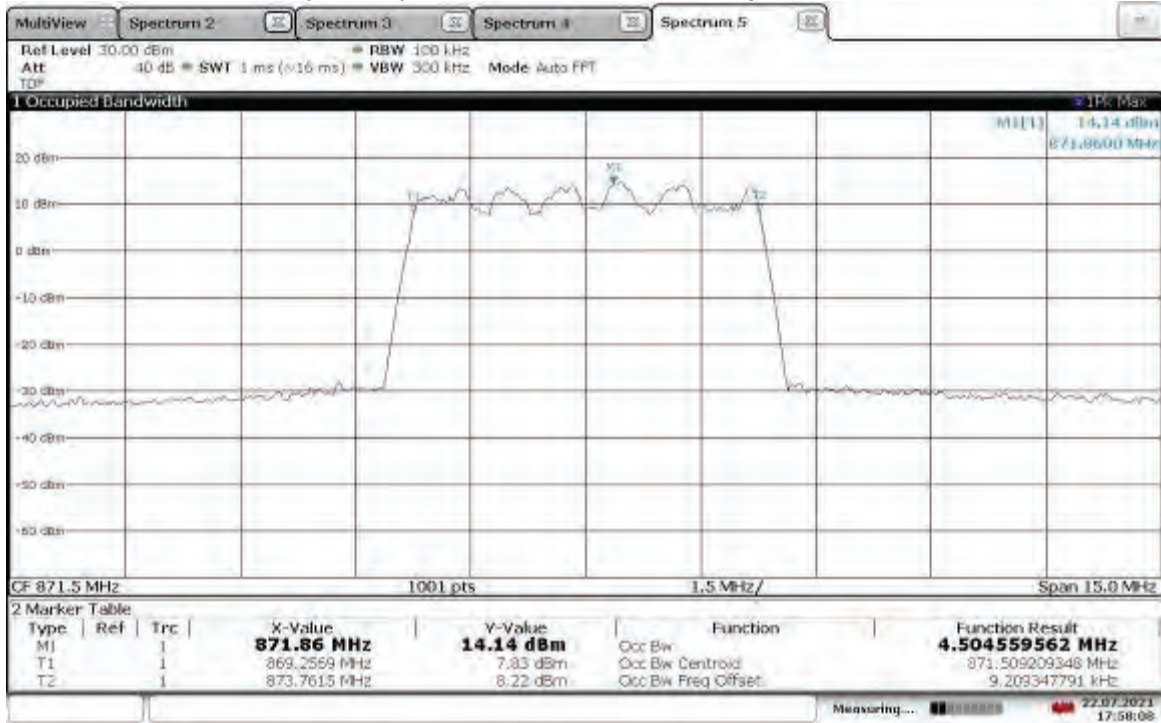
19:12:01 21.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



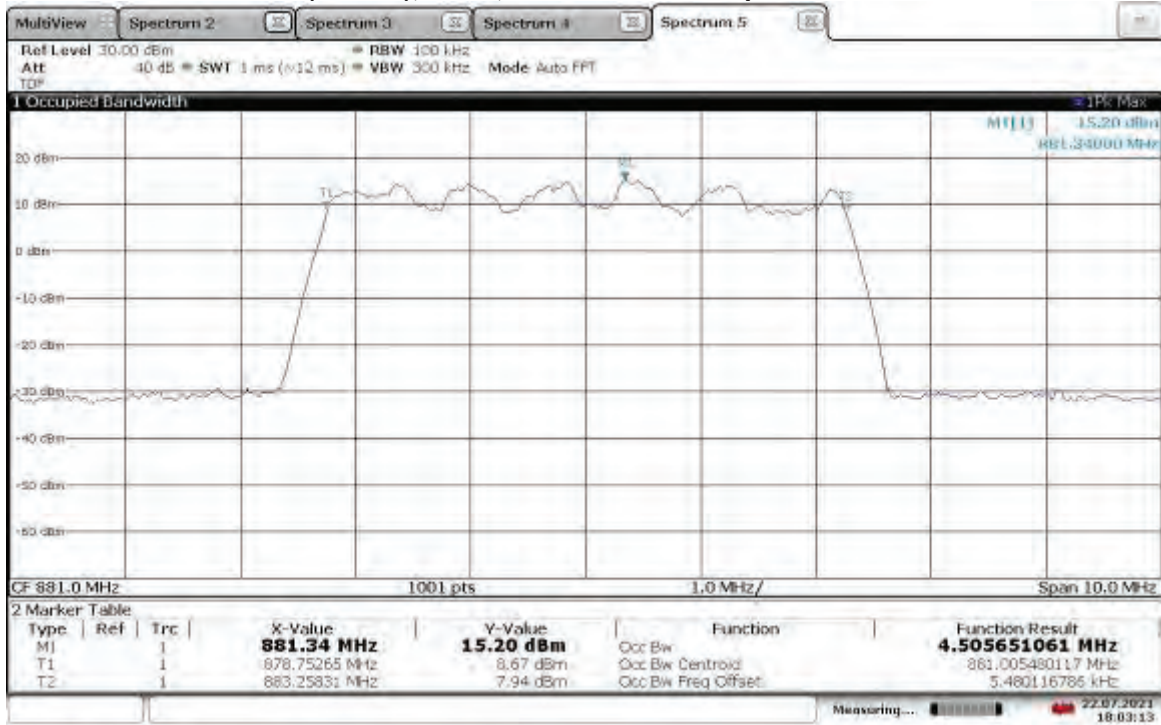
18:01:15 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



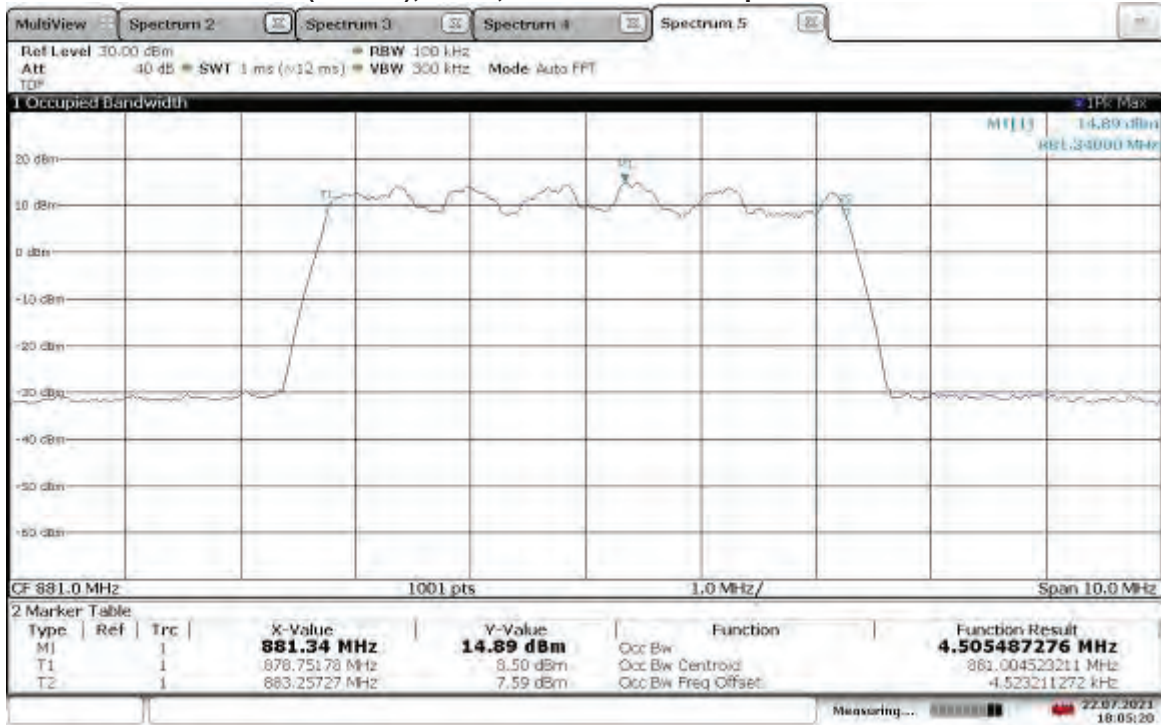
17:58:09 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



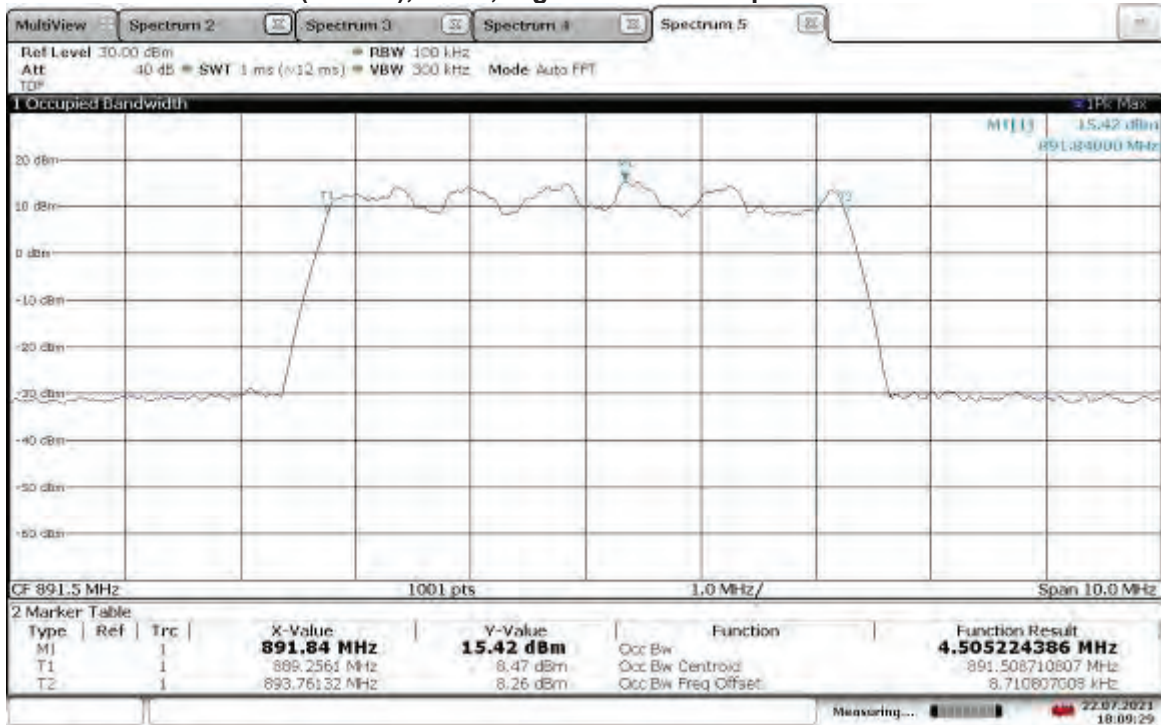
18:03:14 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



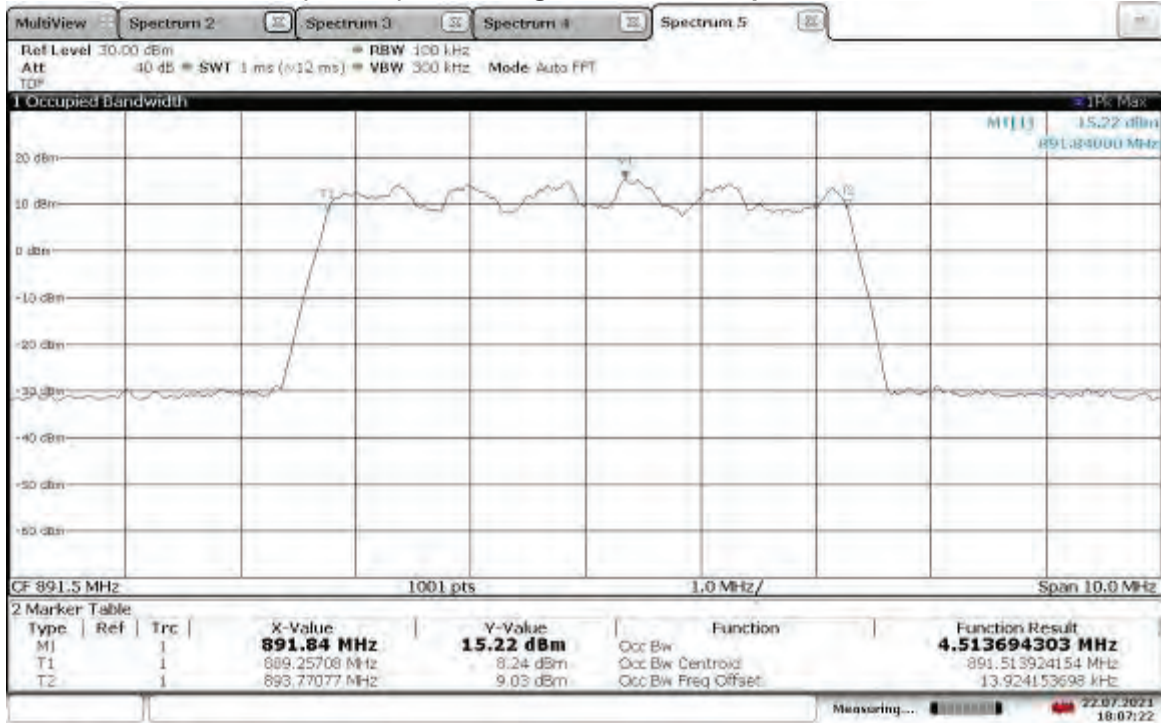
18:05:21 22.07.2021

**TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



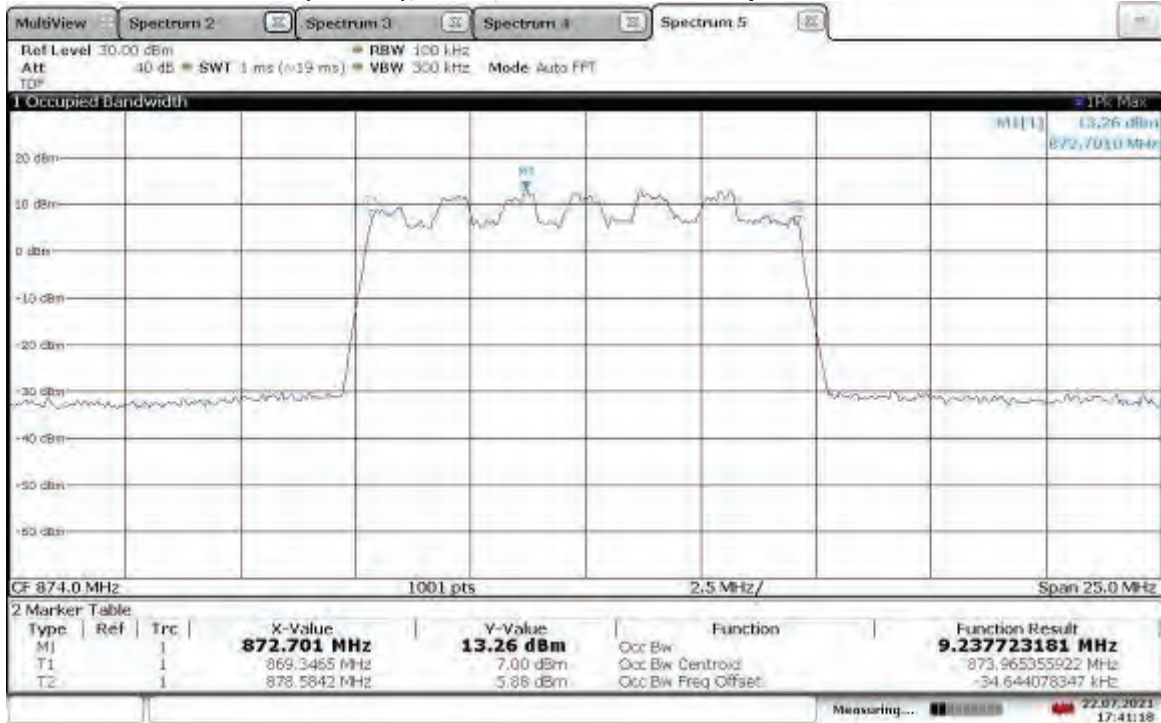
18:09:29 22.07.2021

**TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



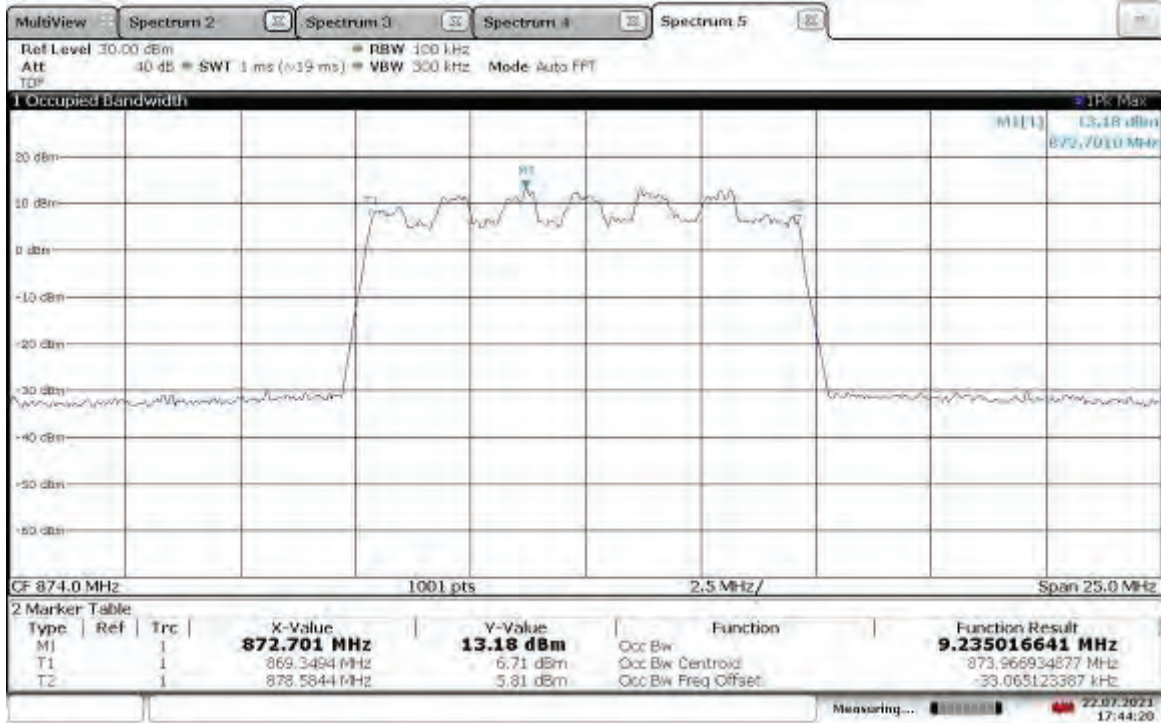
18:07:23 22.07.2021

**TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth**



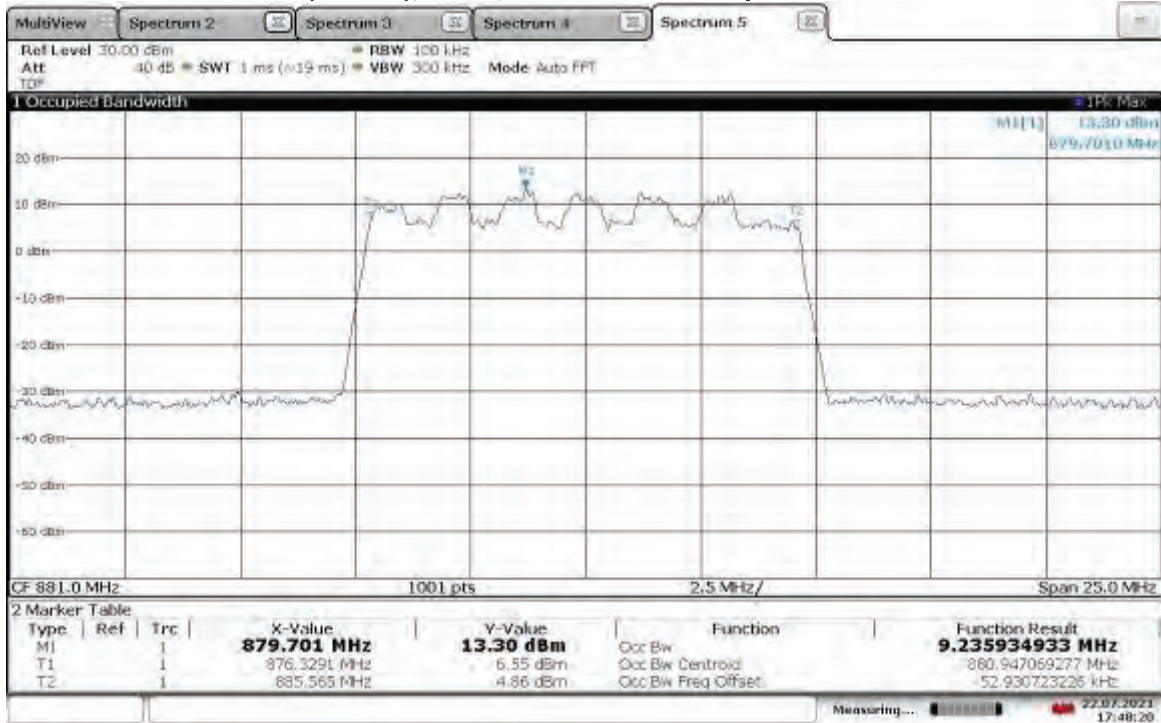
17:41:18 22.07.2021

**TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth**



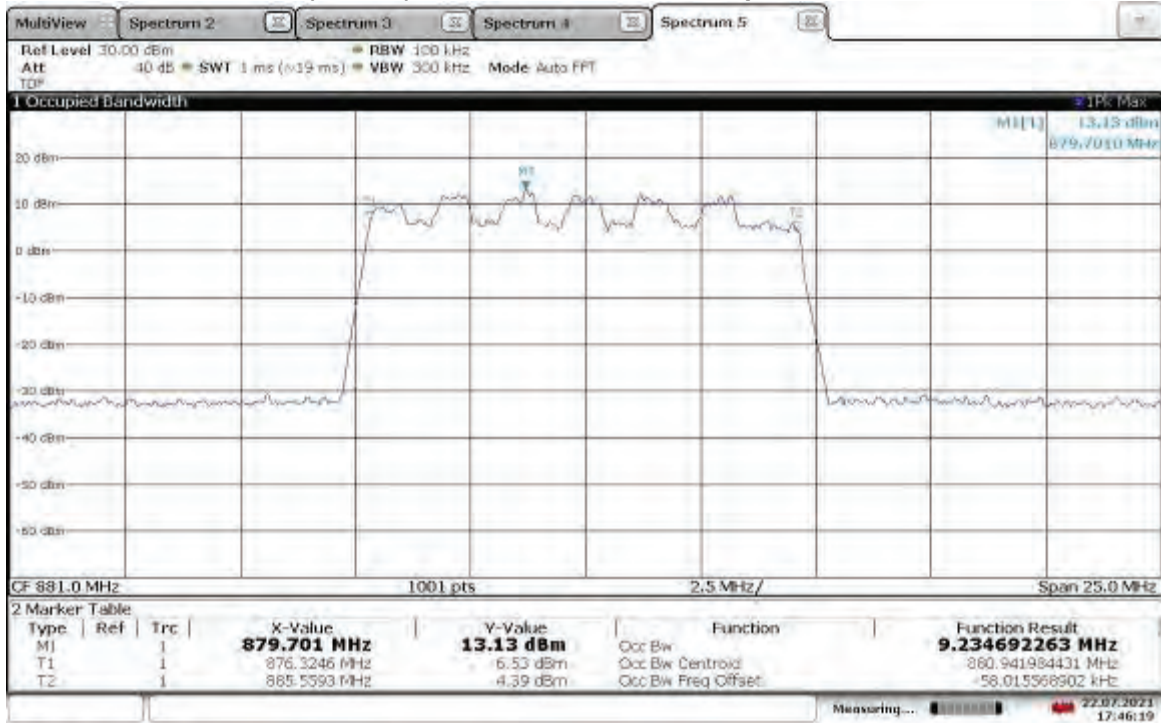
17:44:20 22.07.2021

**TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth**



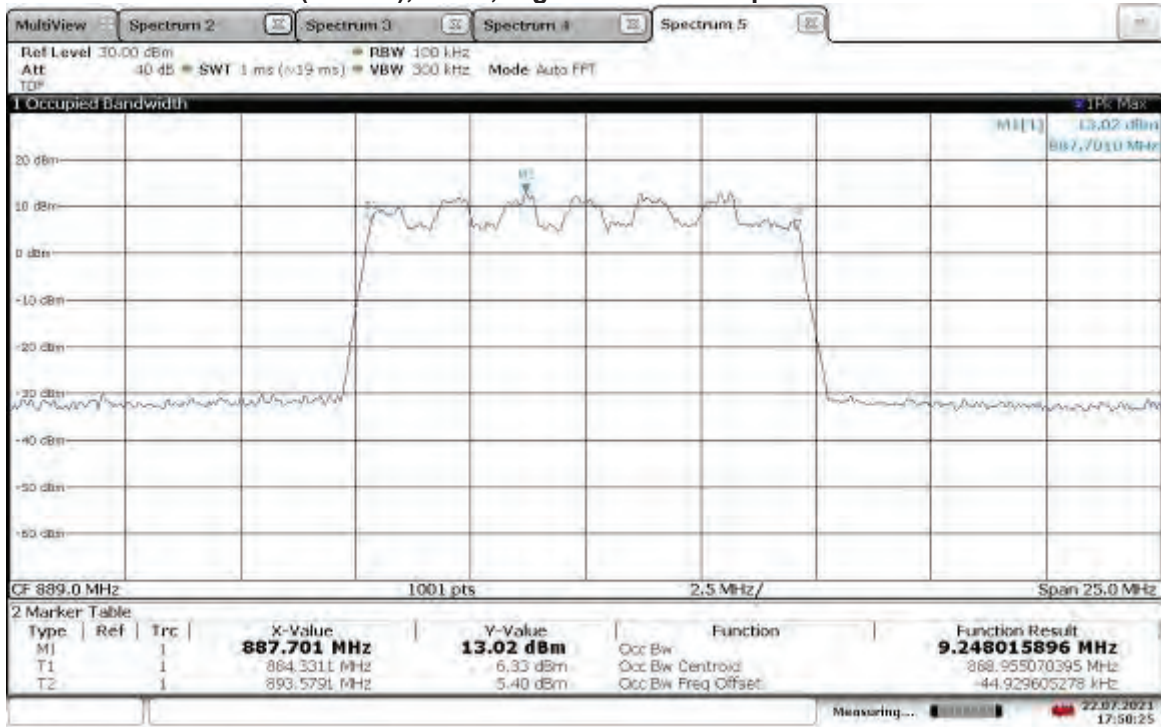
17:48:20 22.07.2021

**TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth**



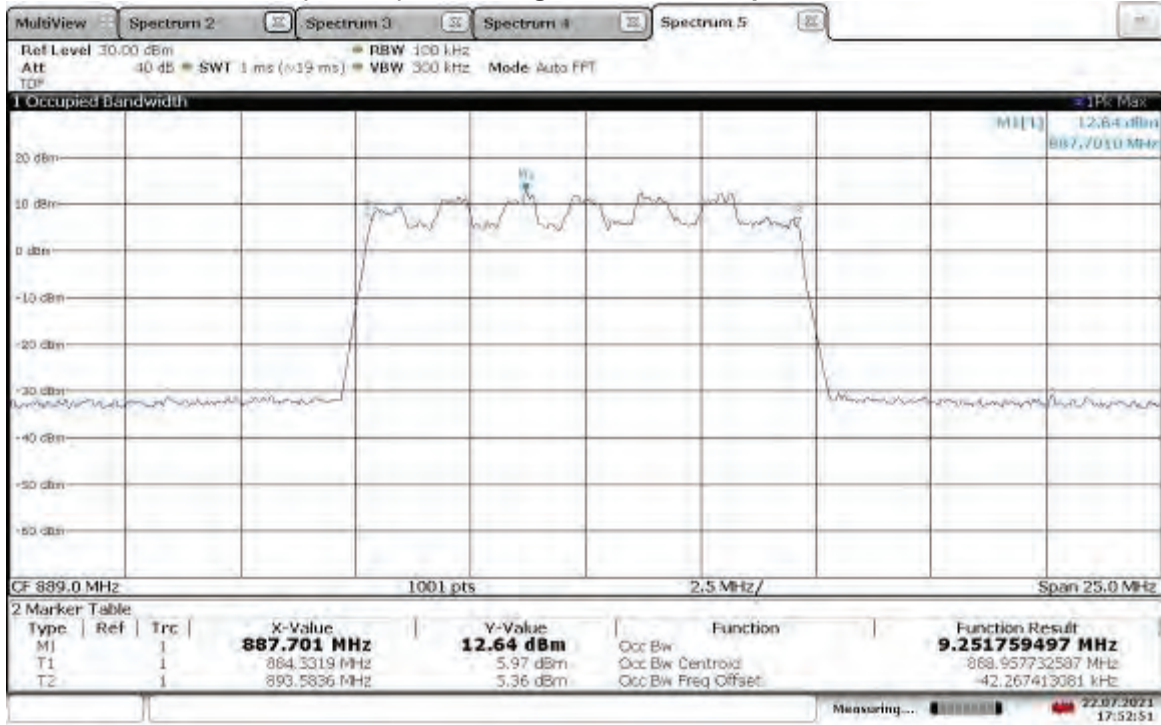
17:46:19 22.07.2021

**TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



17:50:25 22.07.2021

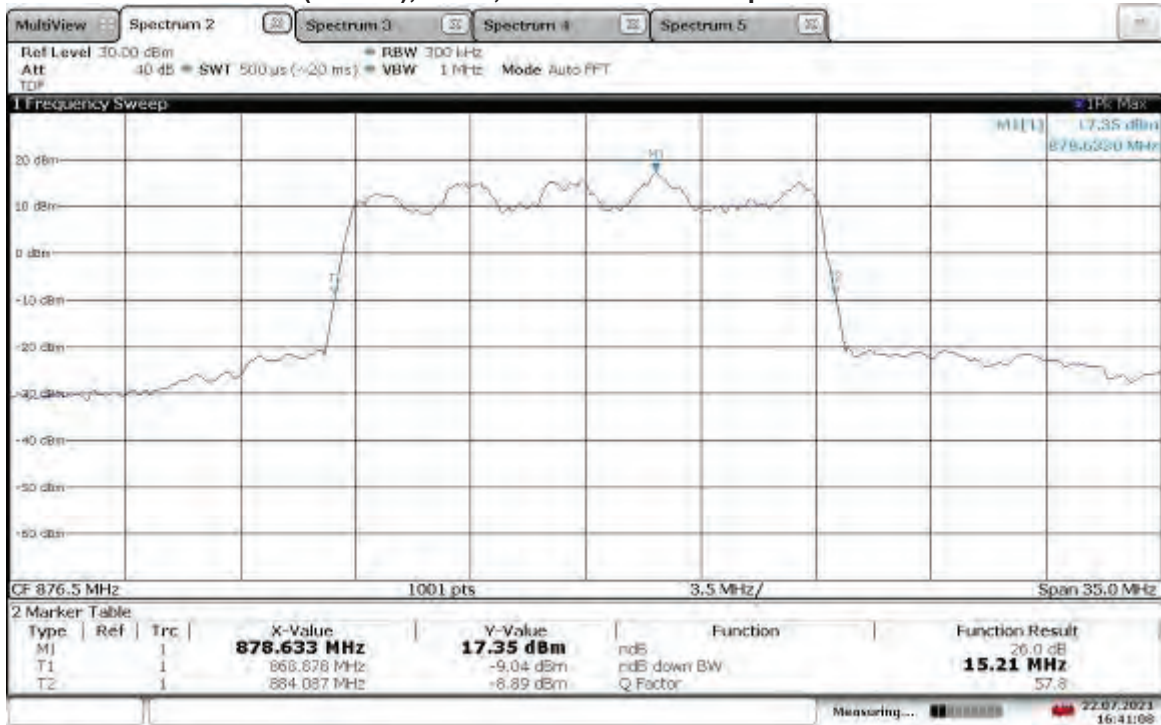
**TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



17:52:52 22.07.2021

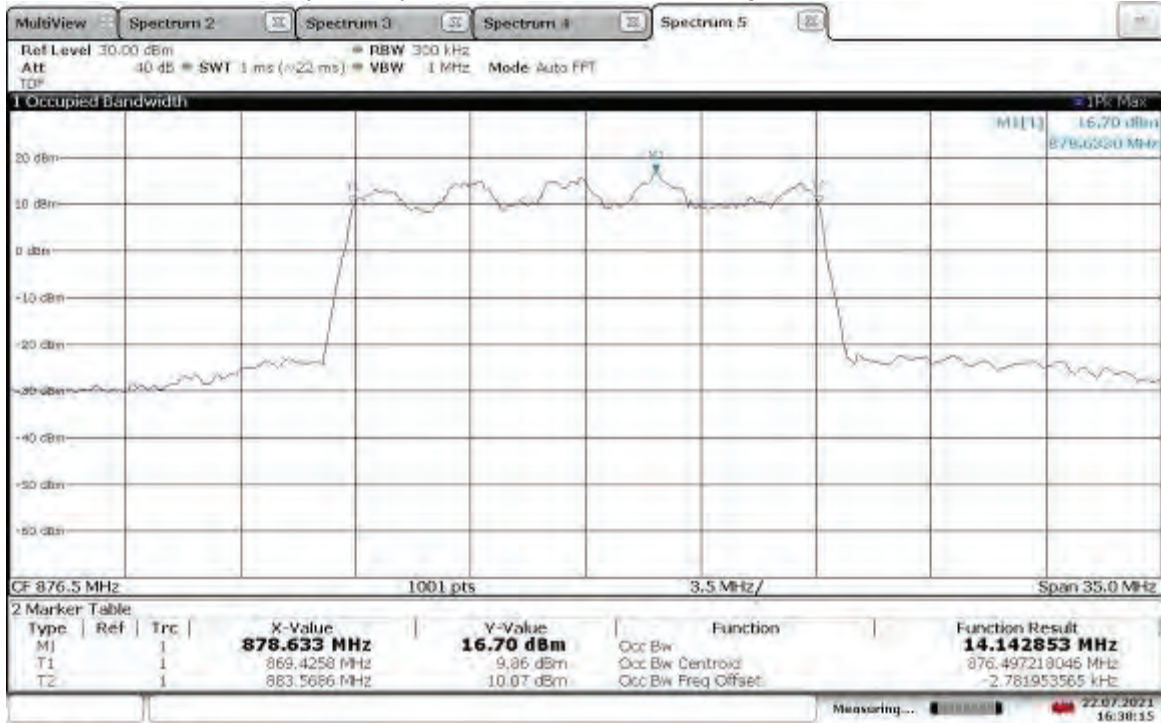


TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



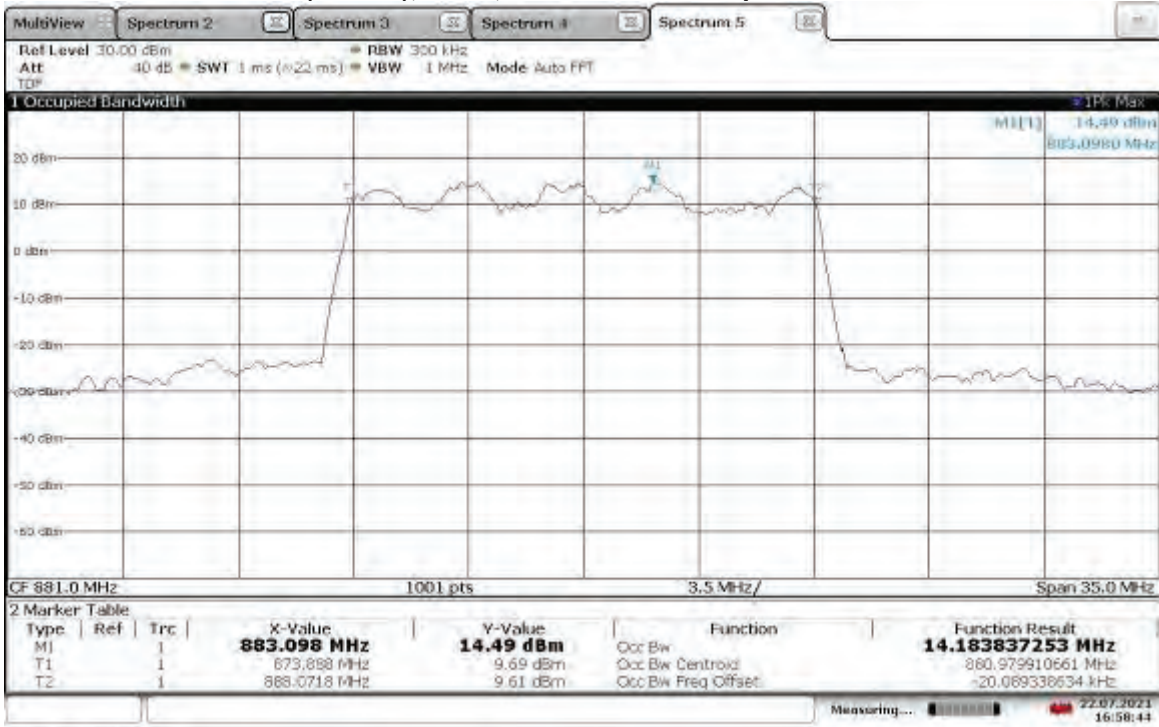
16:41:08 22.07.2021

TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



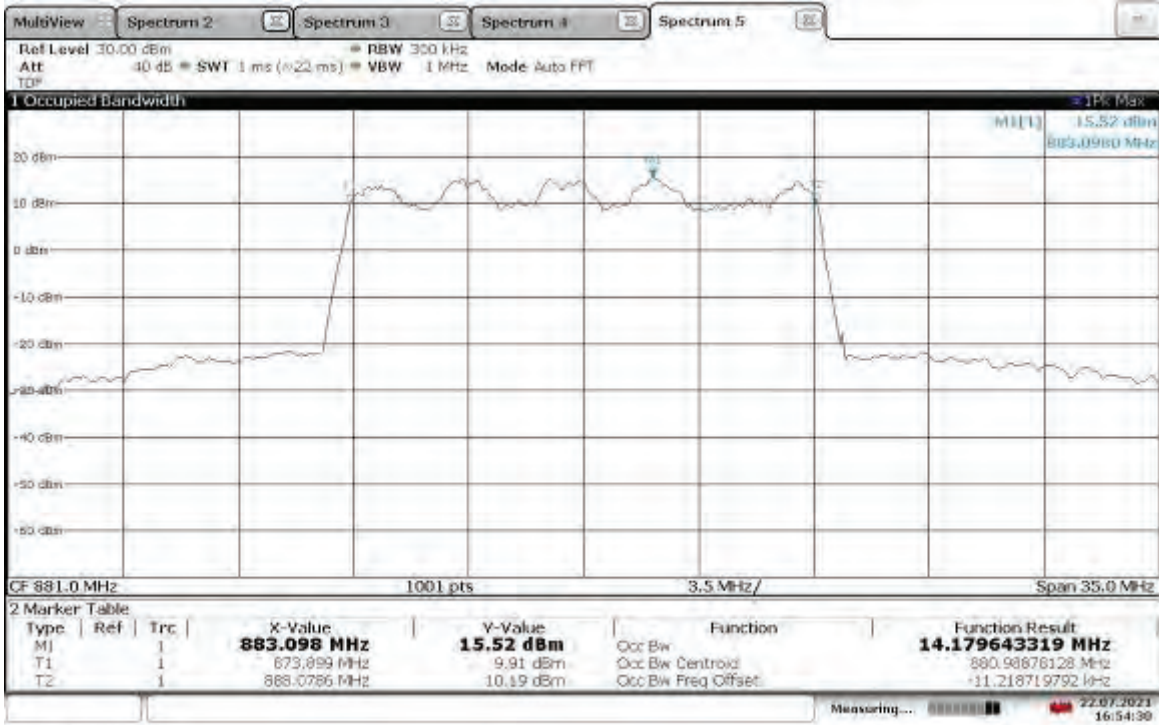
16:38:16 22.07.2021

TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



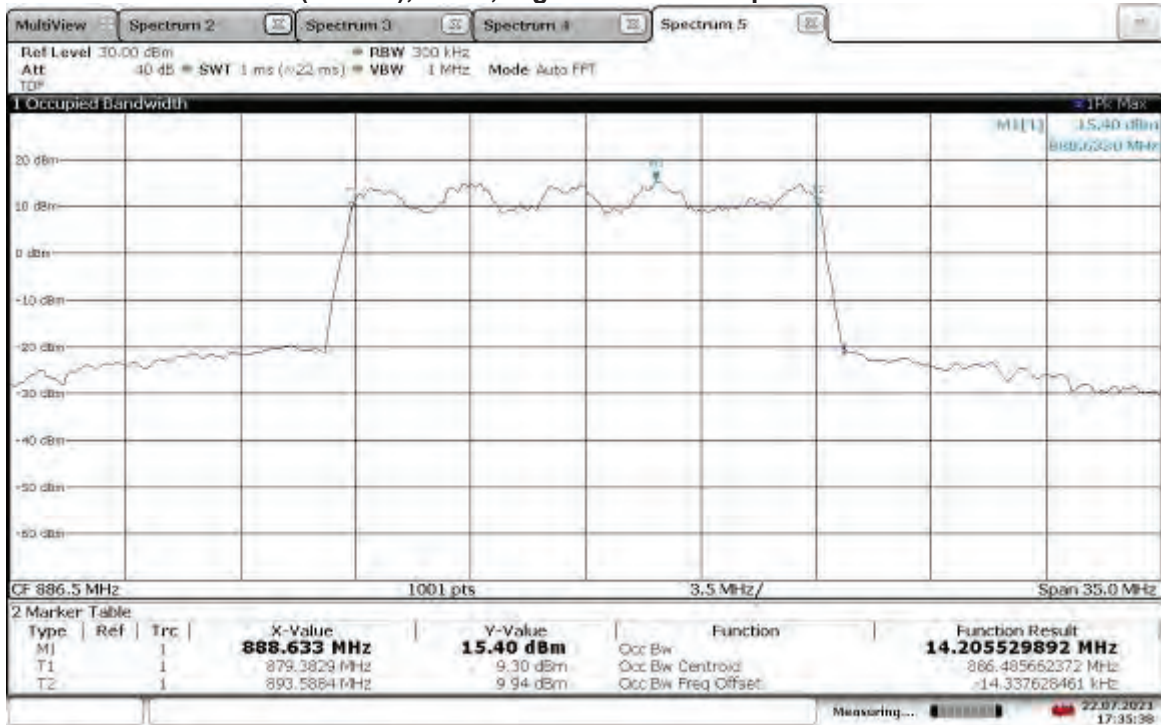
16:58:44 22.07.2021

TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



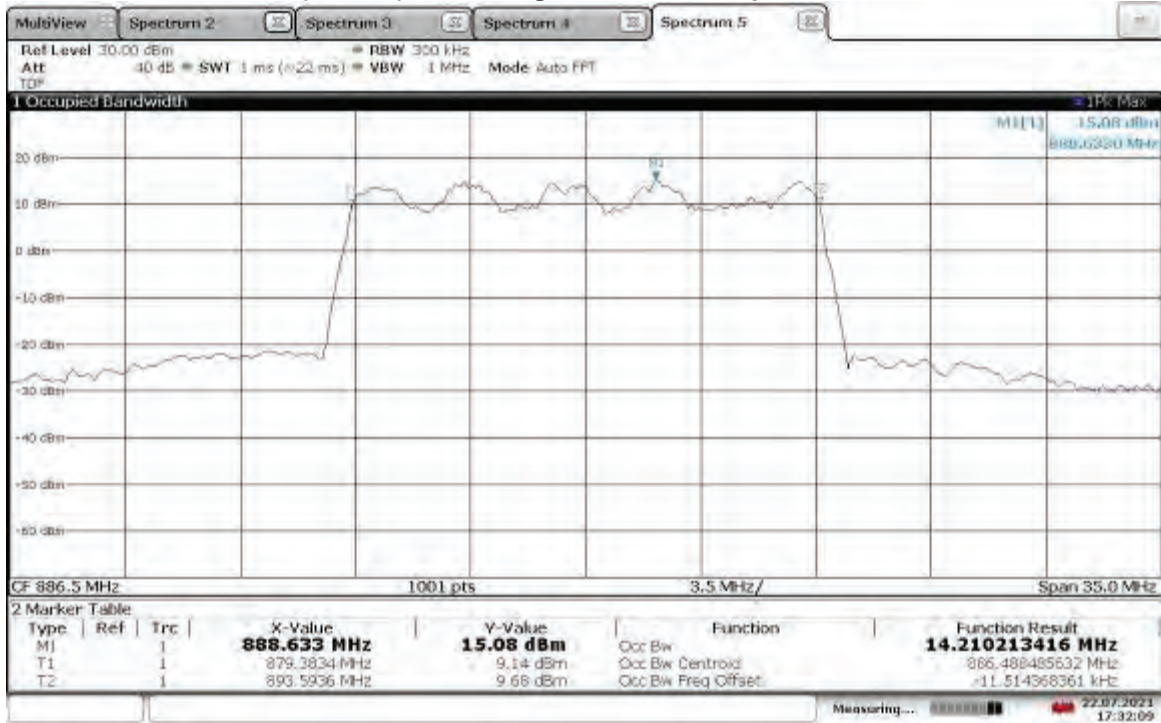
16:54:30 22.07.2021

**TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



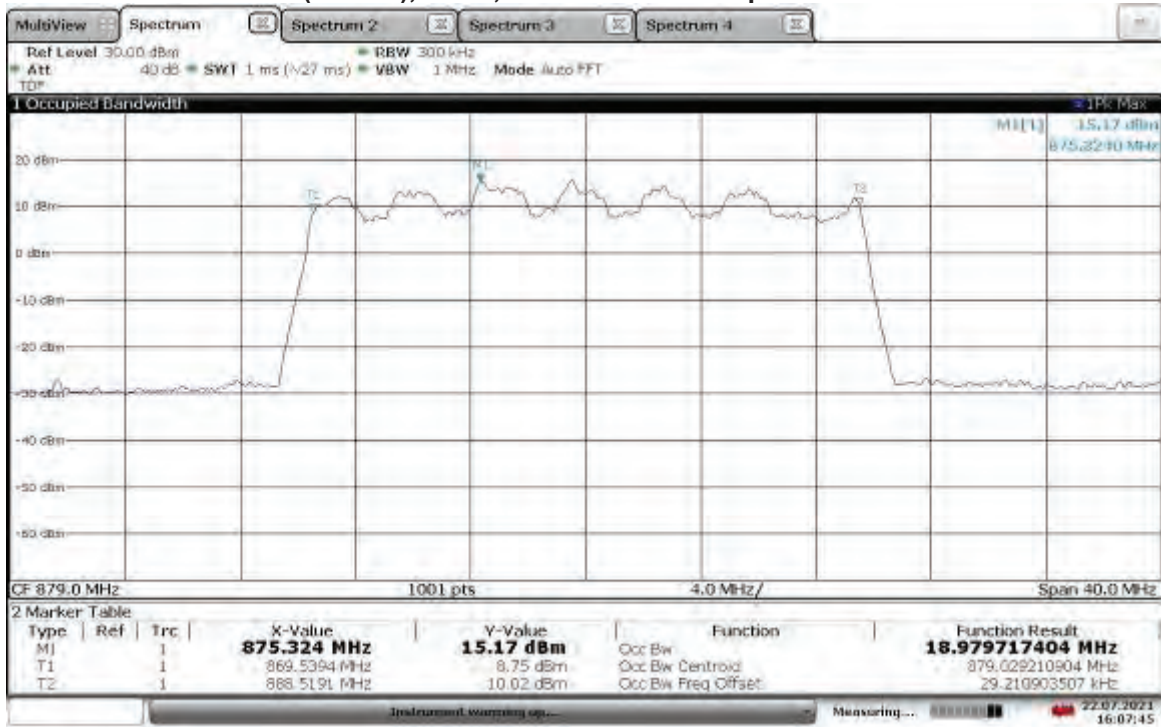
17:35:38 22.07.2021

**TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



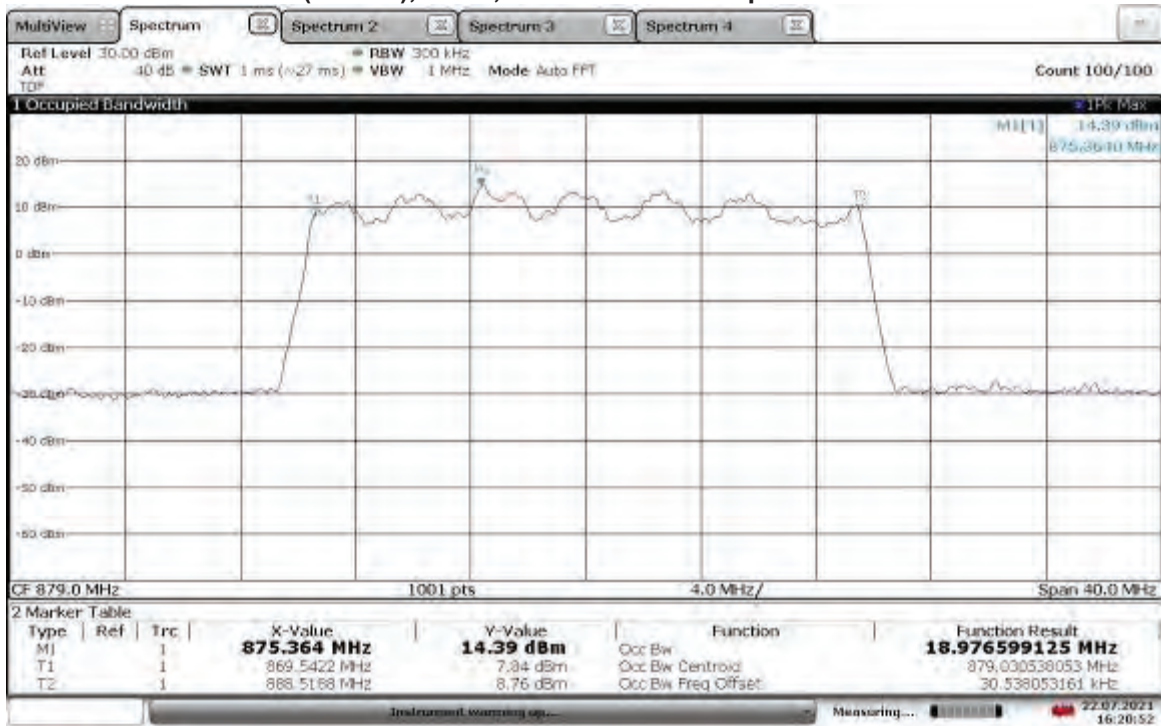
17:32:09 22.07.2021

TM3.2-16QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



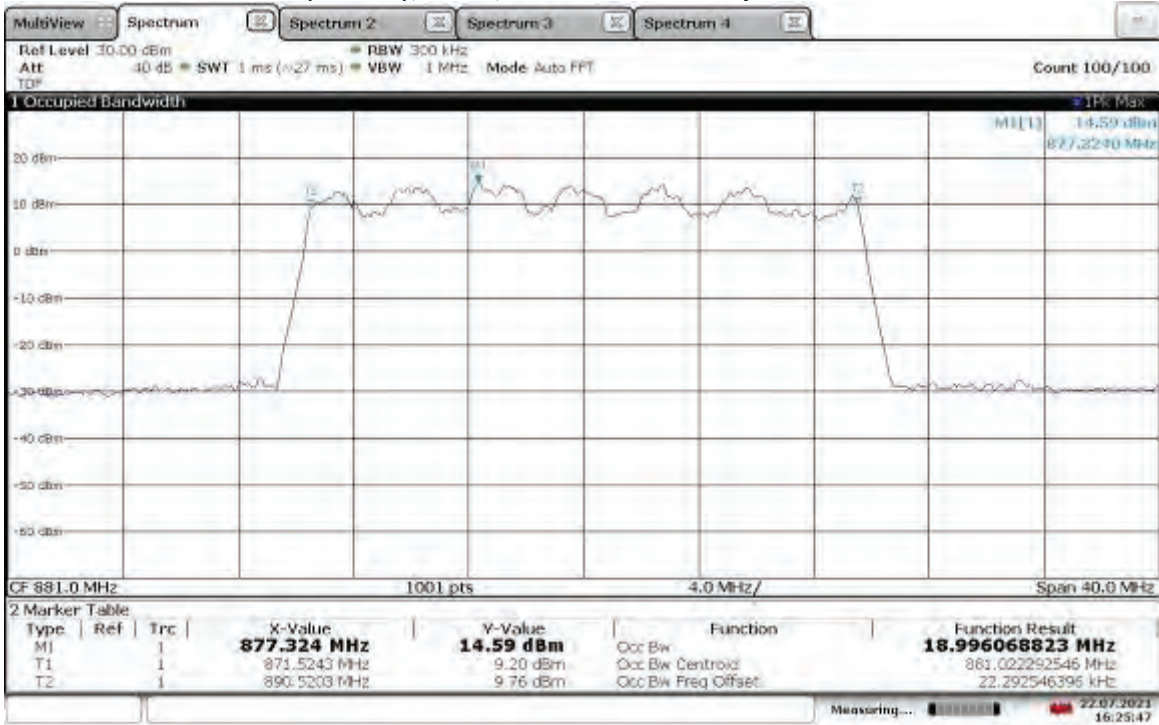
16:07:46 22.07.2021

TM3.2-16QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



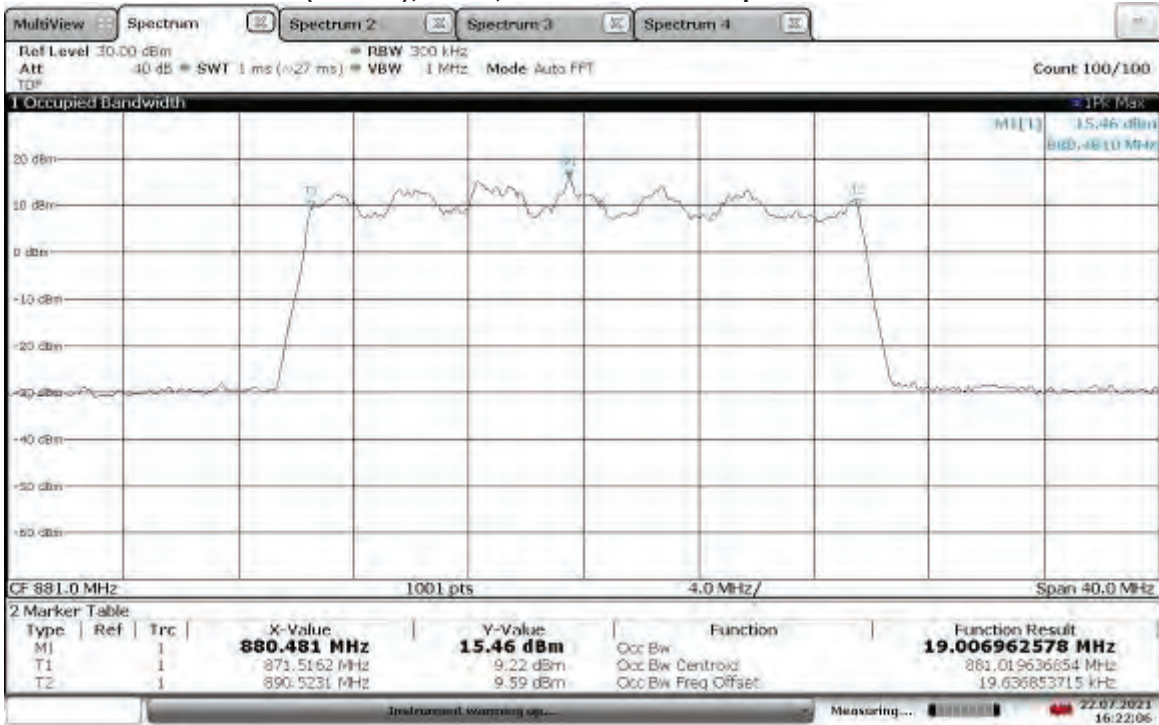
16:20:53 22.07.2021

**TM3.2-16QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth**



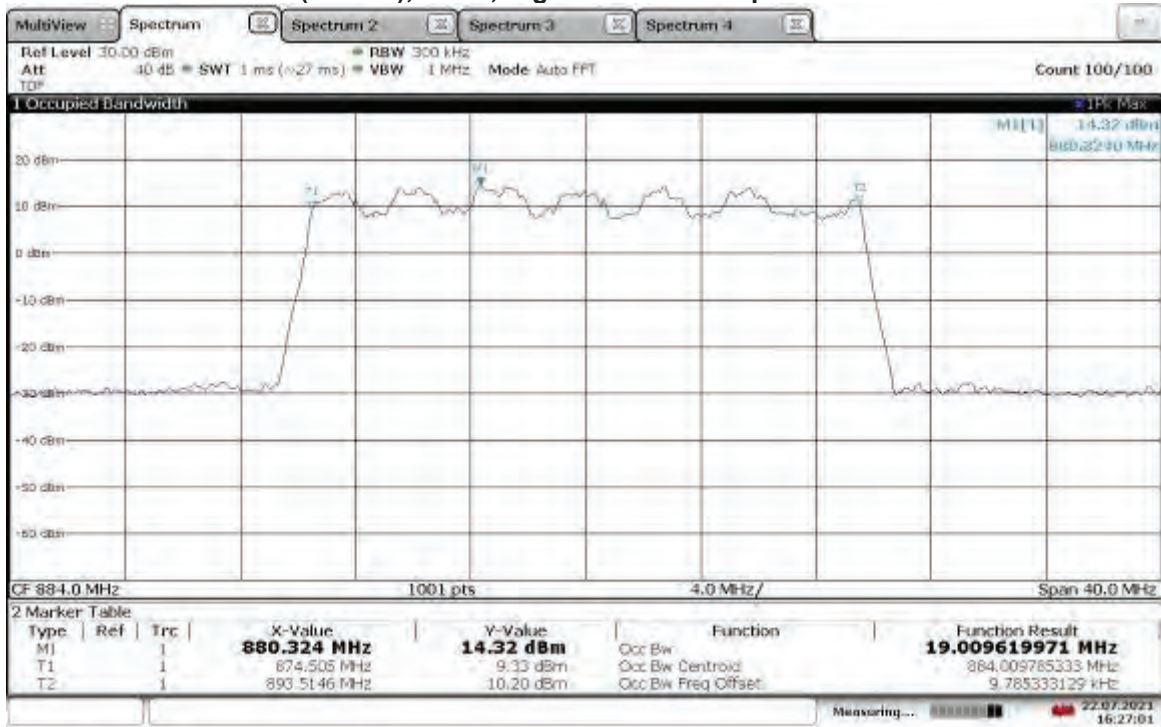
16:25:47 22.07.2021

**TM3.2-16QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth**



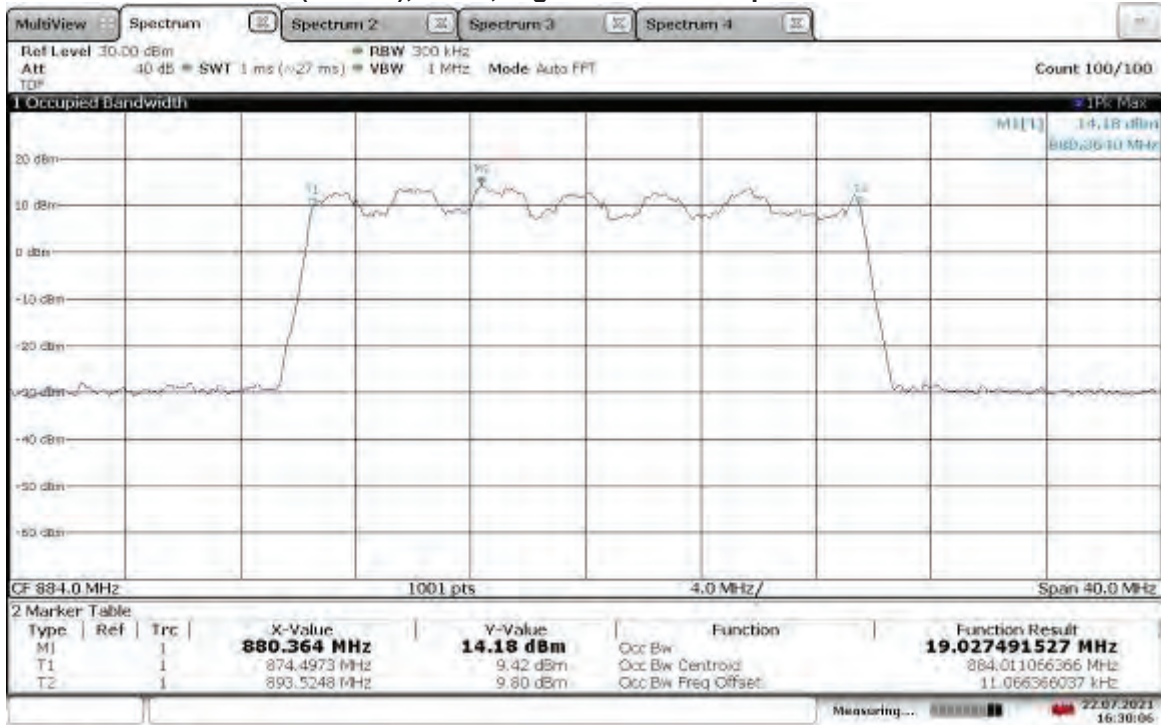
16:22:06 22.07.2021

**TM3.2-16QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



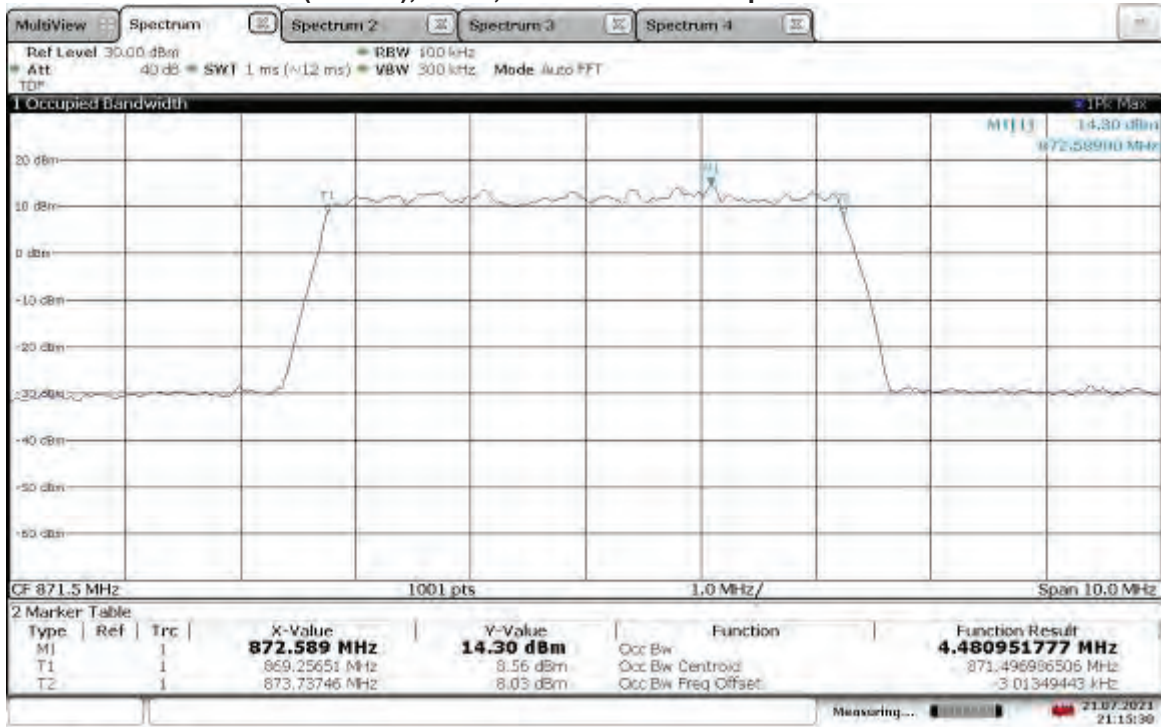
16:27:01 22.07.2021

**TM3.2-16QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



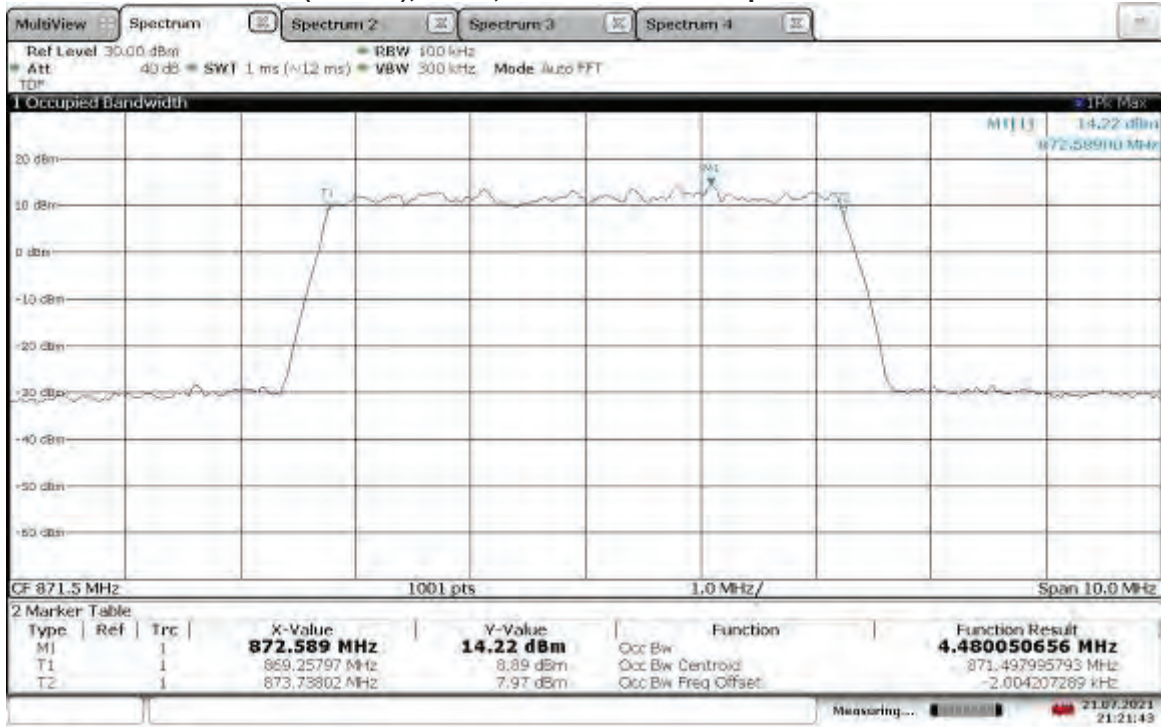
16:30:07 22.07.2021

TM3.1-64QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



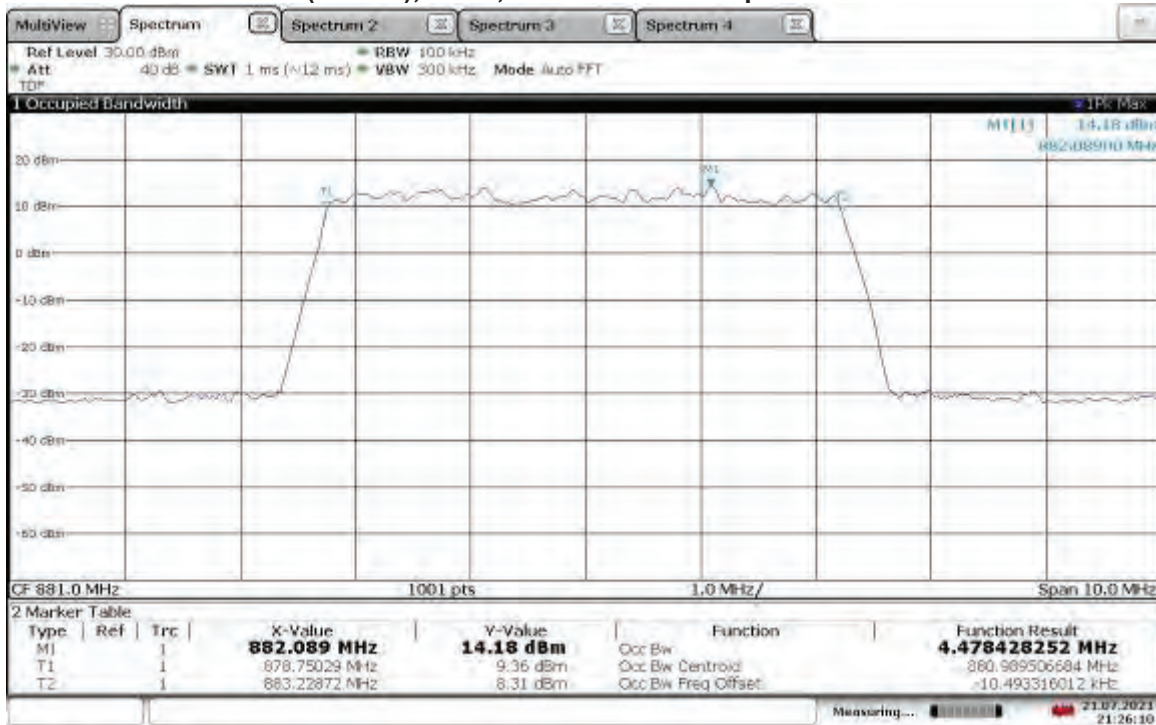
21:15:30 21.07.2021

TM3.1-64QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



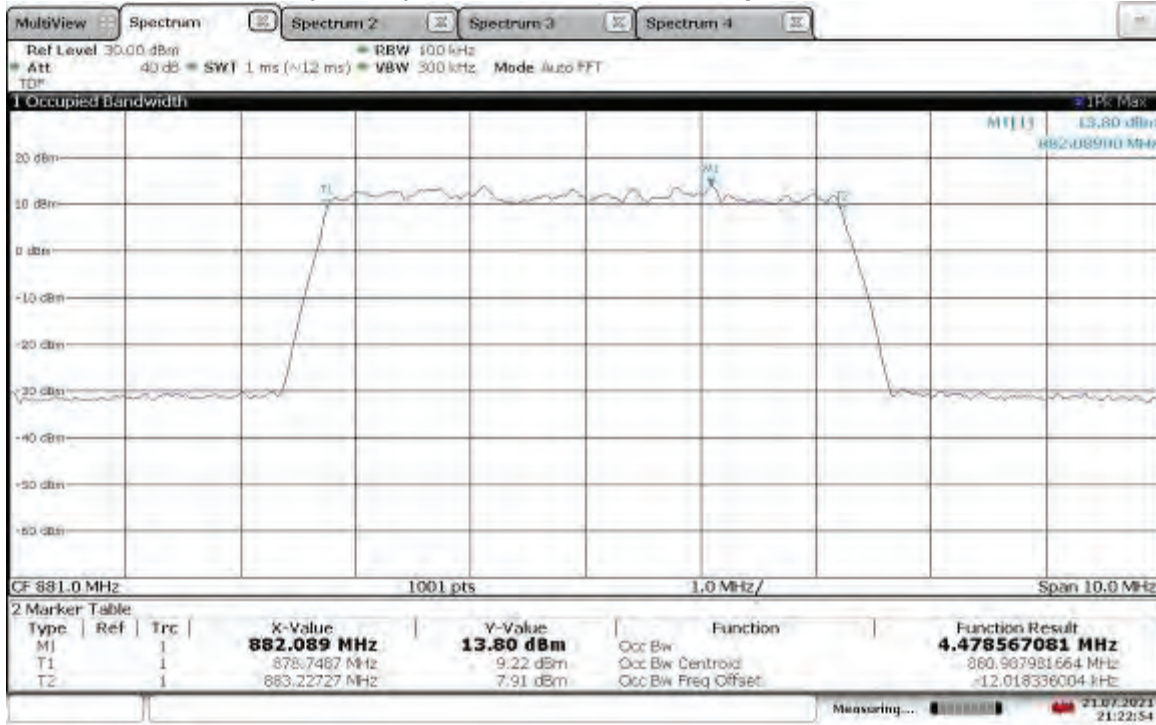
21:21:44 21.07.2021

TM3.1-64QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



21:26:10 21.07.2021

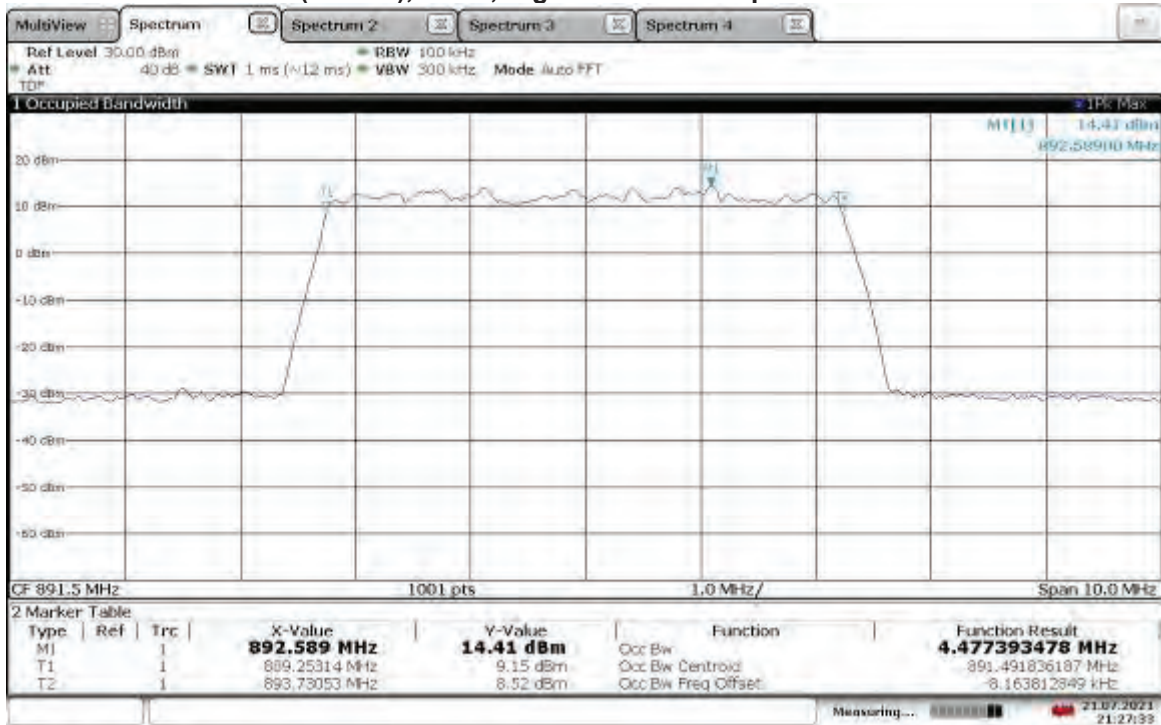
TM3.1-64QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



21:22:54 21.07.2021

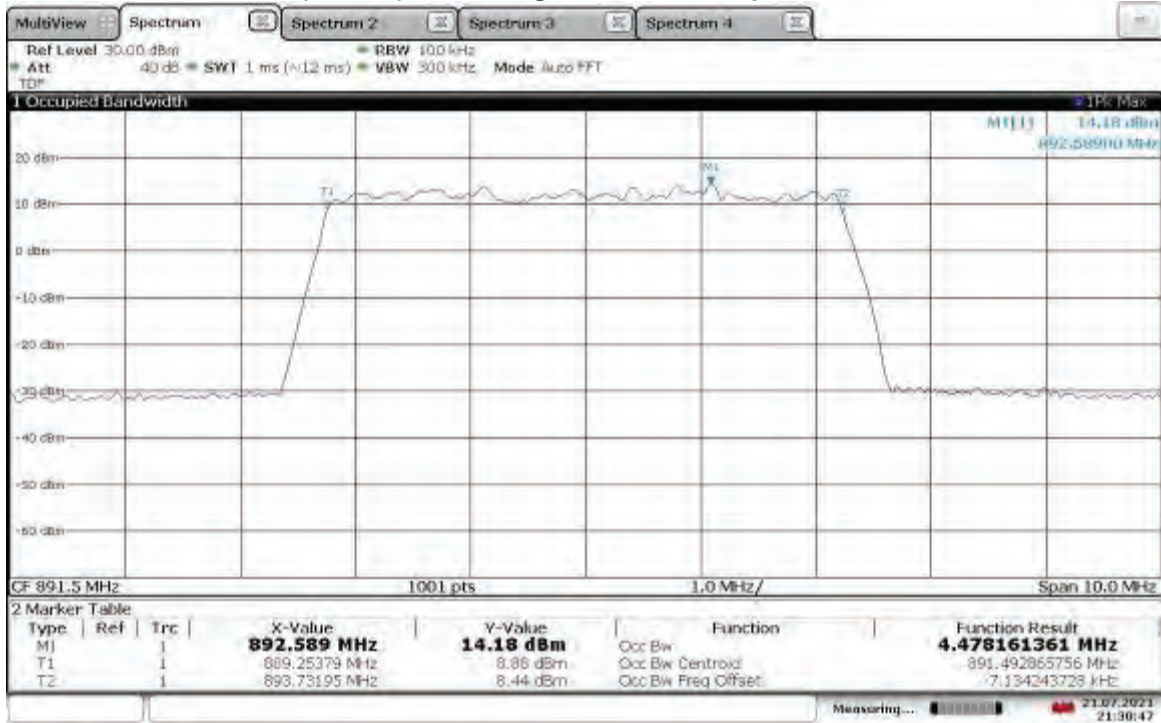


**TM3.1-64QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



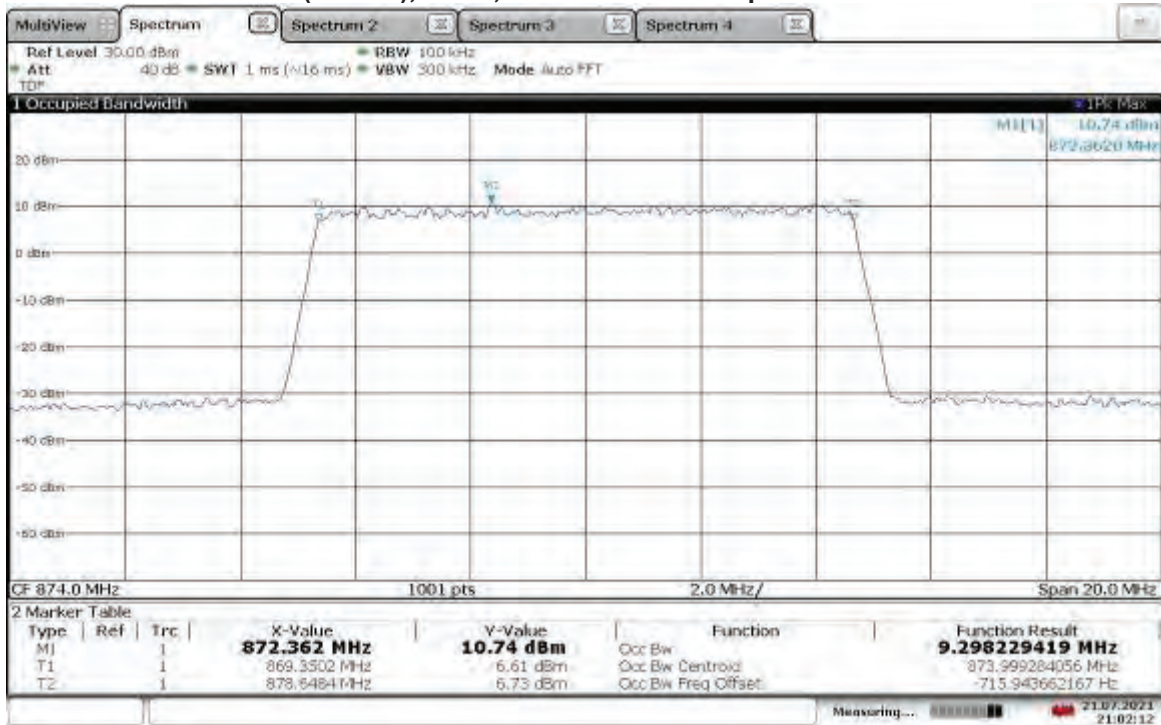
21:27:34 21.07.2021

**TM3.1-64QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



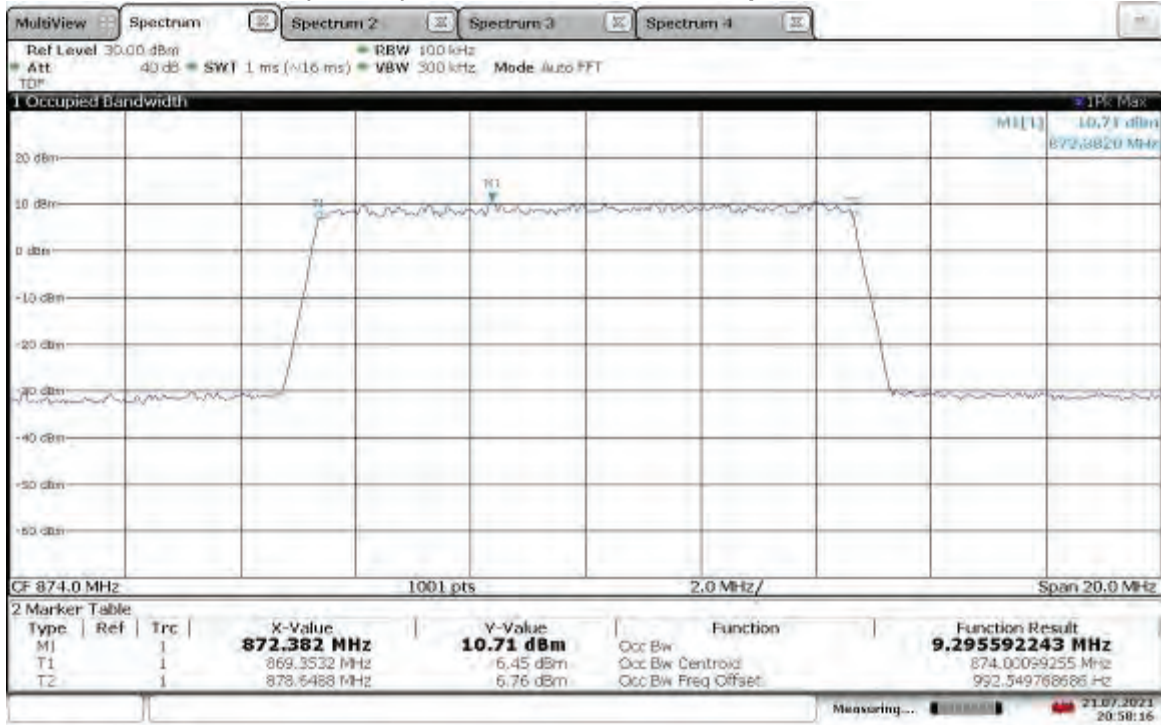
21:30:48 21.07.2021

**TM3.1-64QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth**



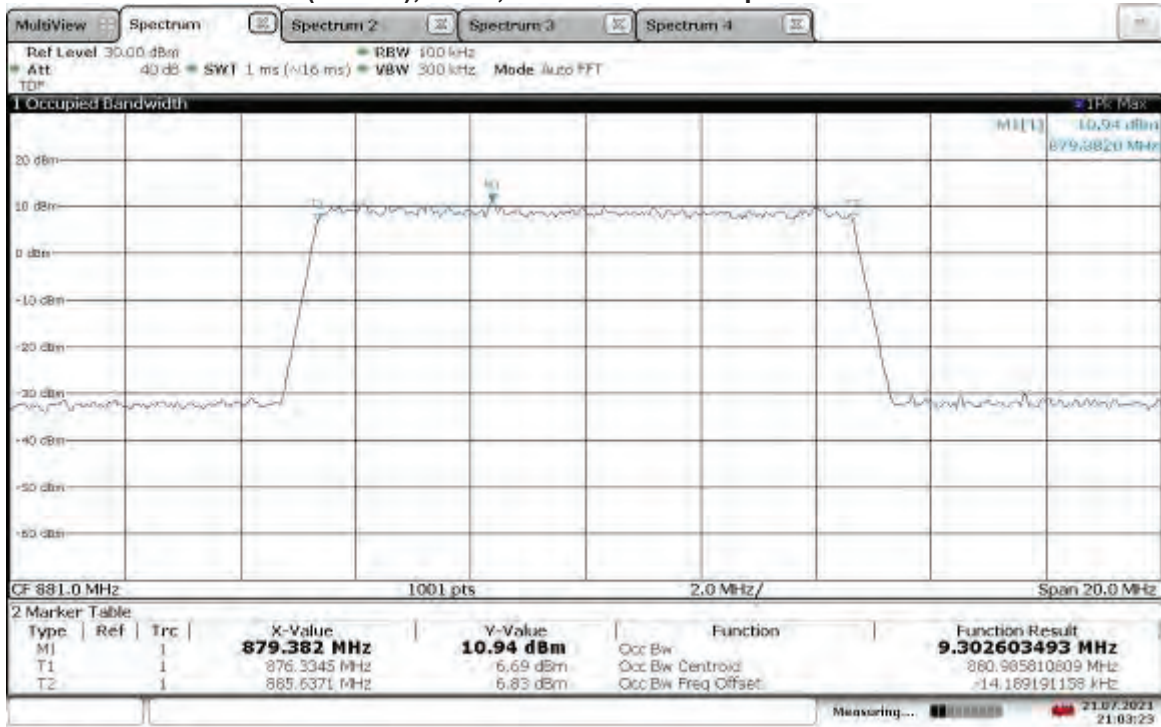
21:02:12 21.07.2021

**TM3.1-64QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth**



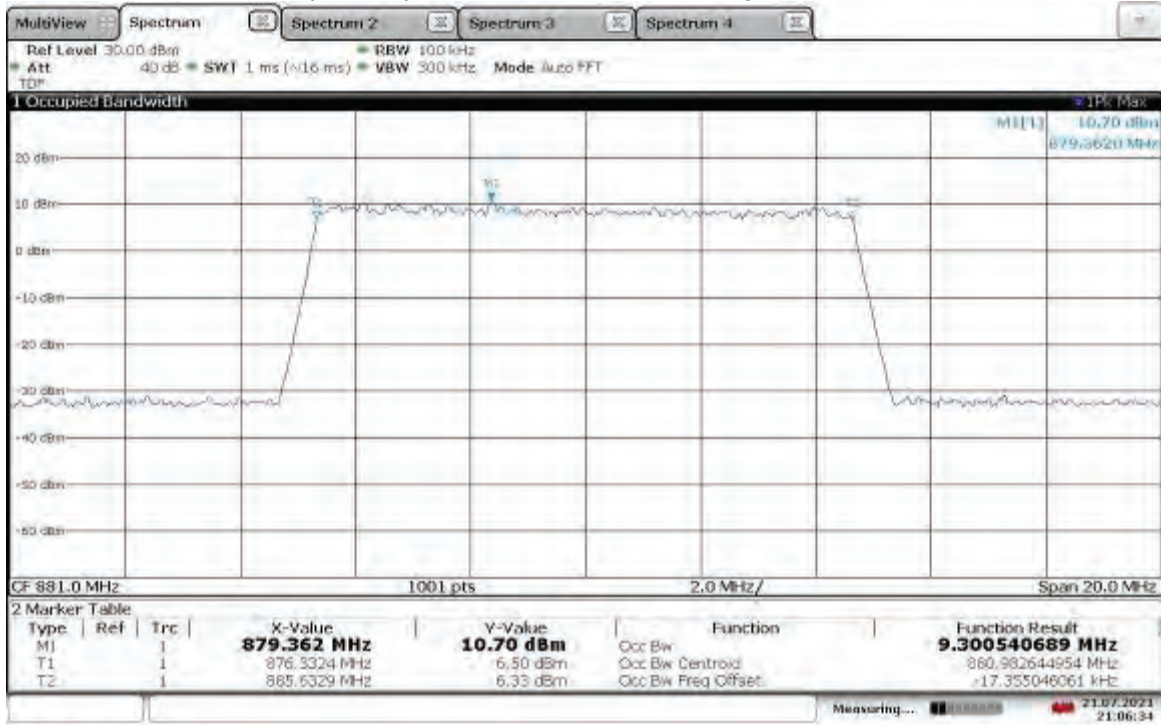
20:58:16 21.07.2021

TM3.1-64QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



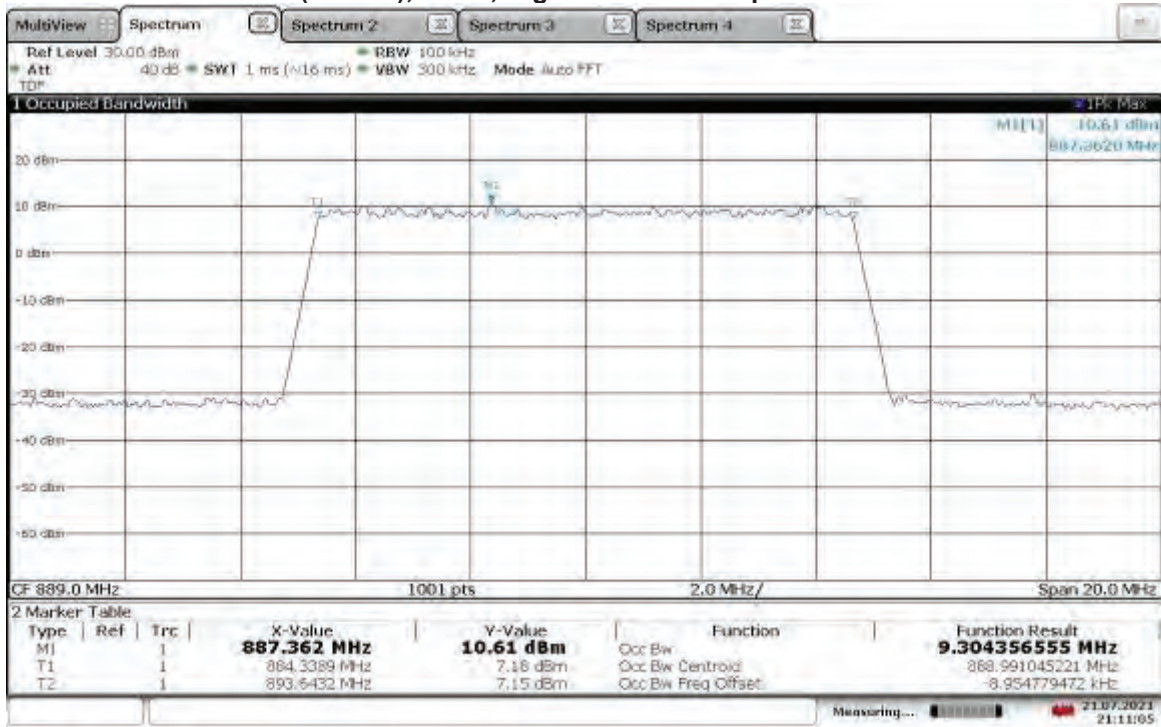
21:03:23 21.07.2021

TM3.1-64QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



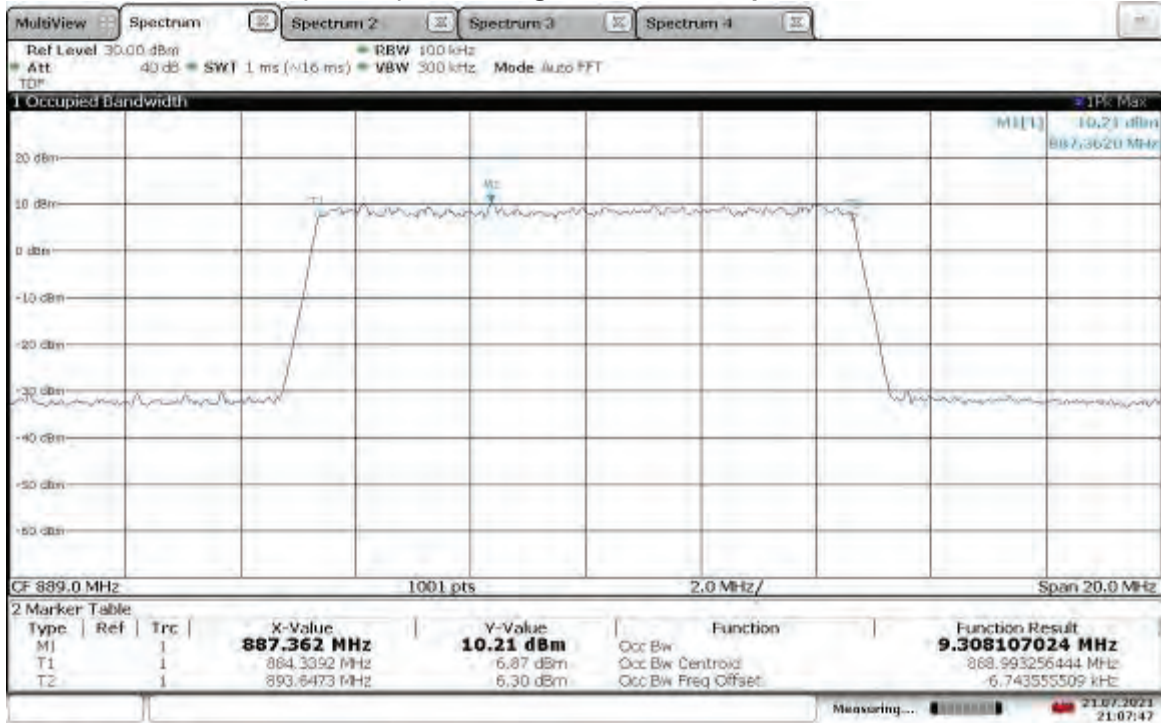
21:06:35 21.07.2021

**TM3.1-64QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



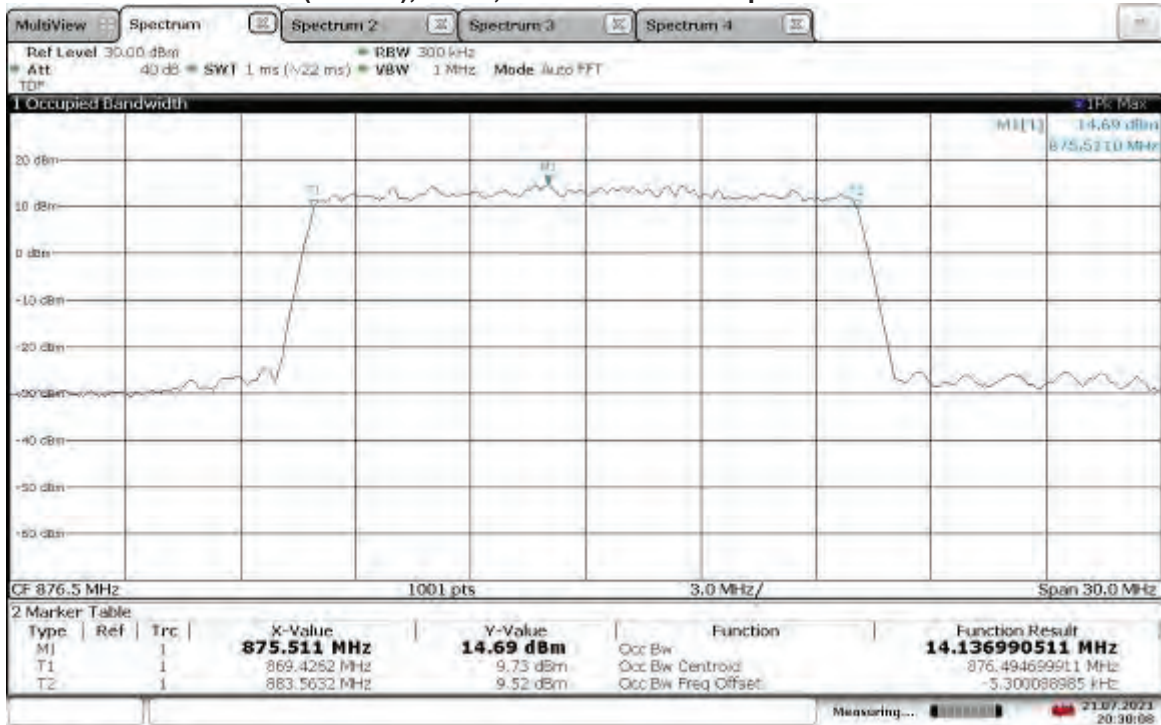
21:11:05 21.07.2021

**TM3.1-64QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



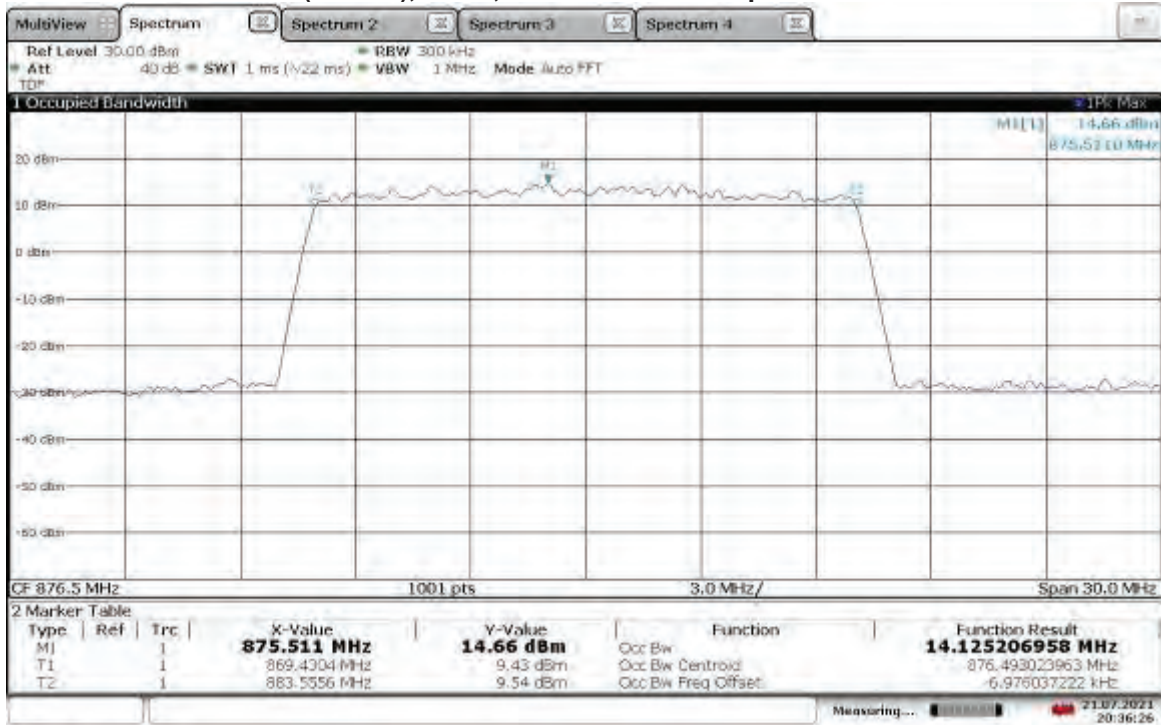
21:07:47 21.07.2021

TM3.1-64QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



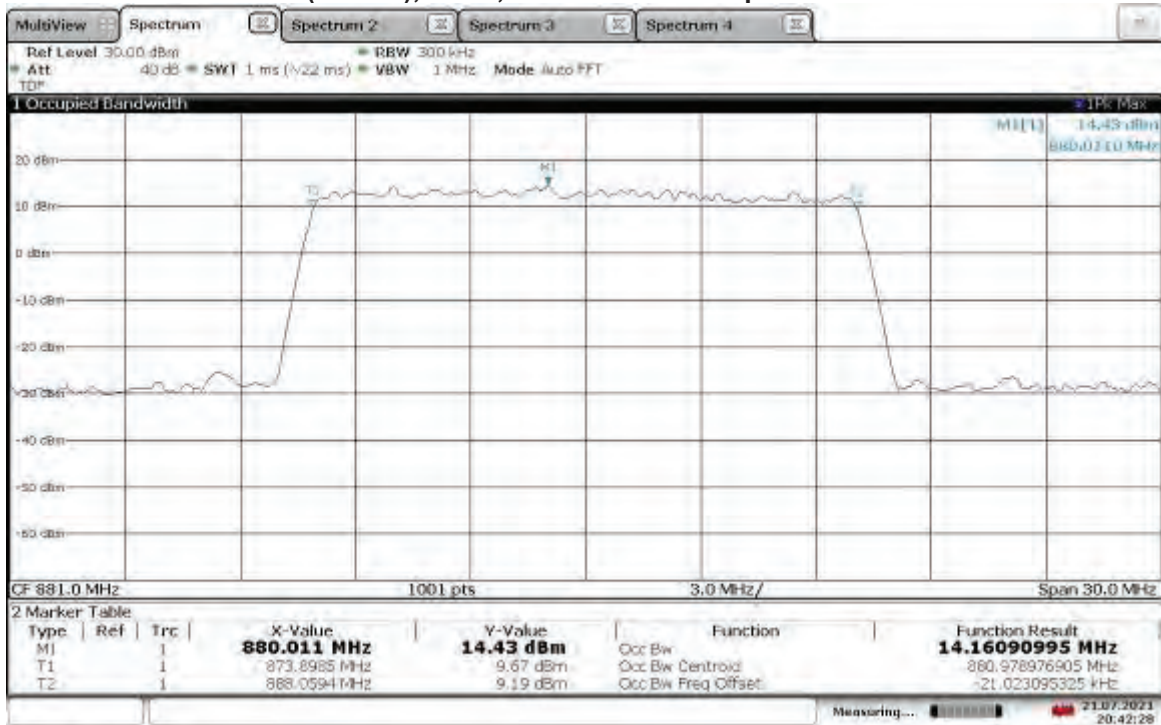
20:30:08 21.07.2021

TM3.1-64QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



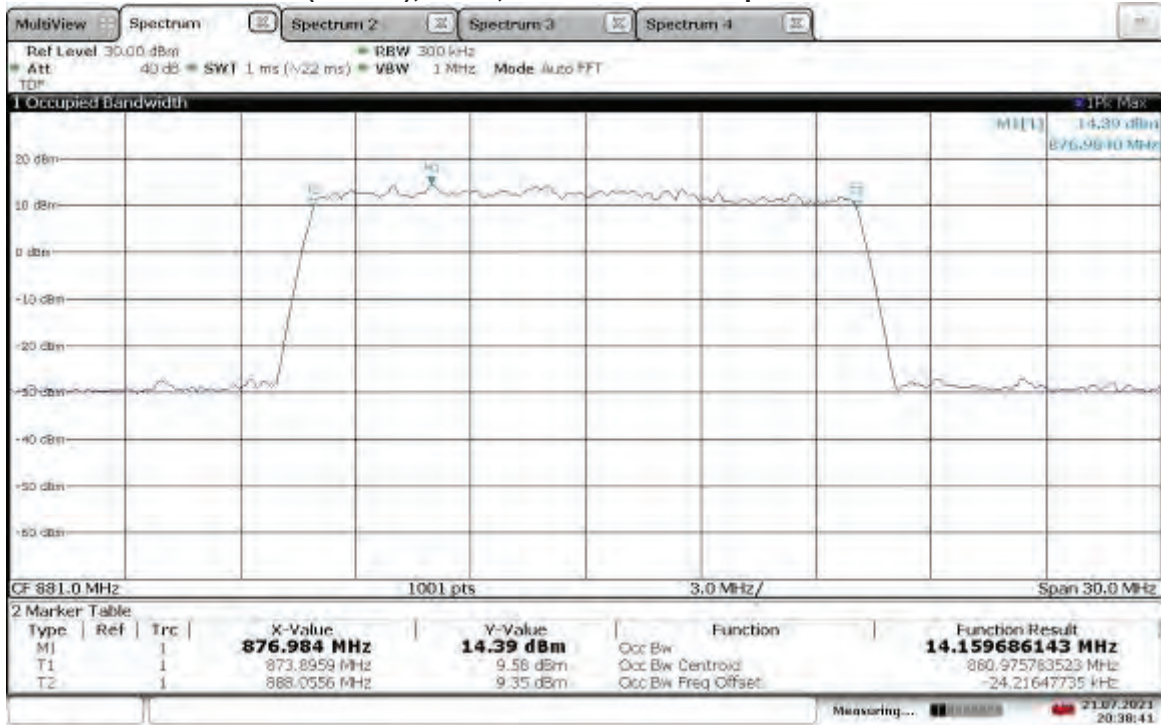
20:36:26 21.07.2021

TM3.1-64QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



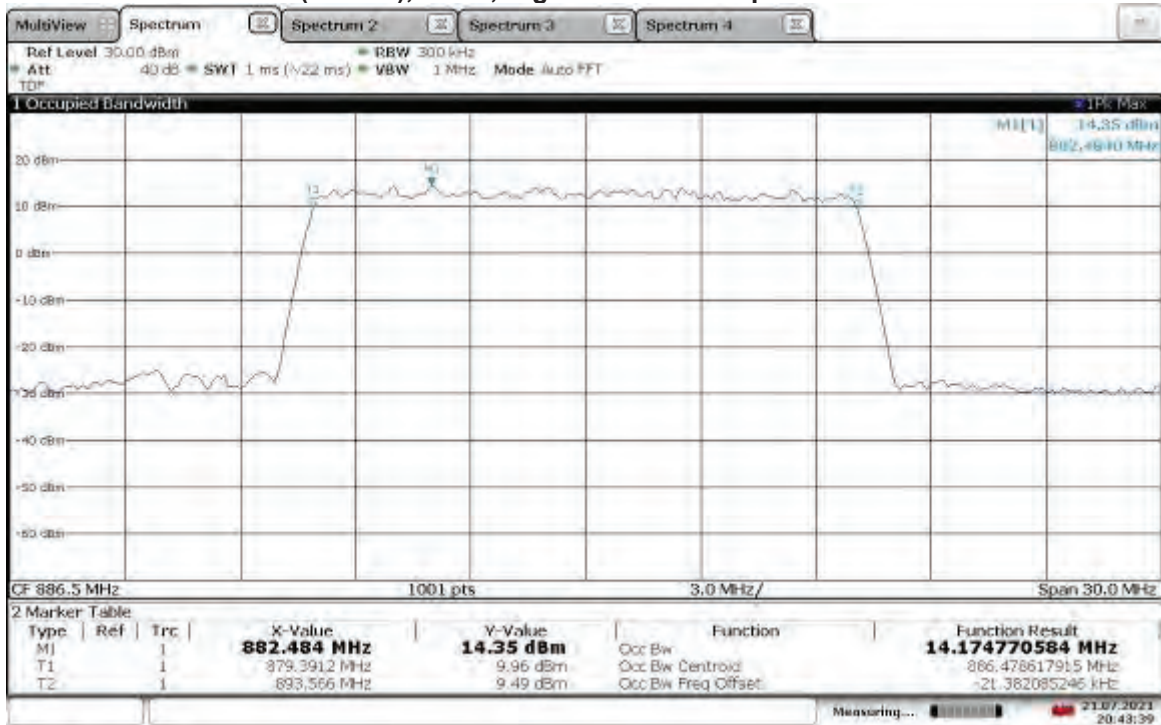
20:42:29 21.07.2021

TM3.1-64QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



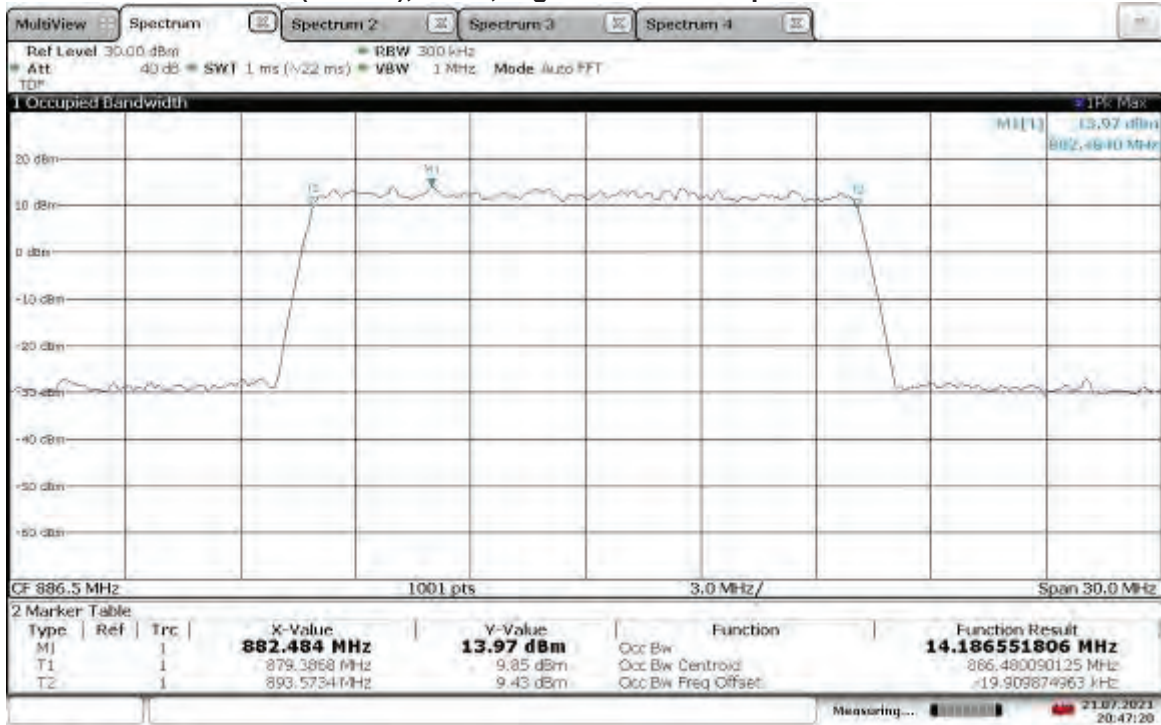
20:38:41 21.07.2021

TM3.1-64QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth



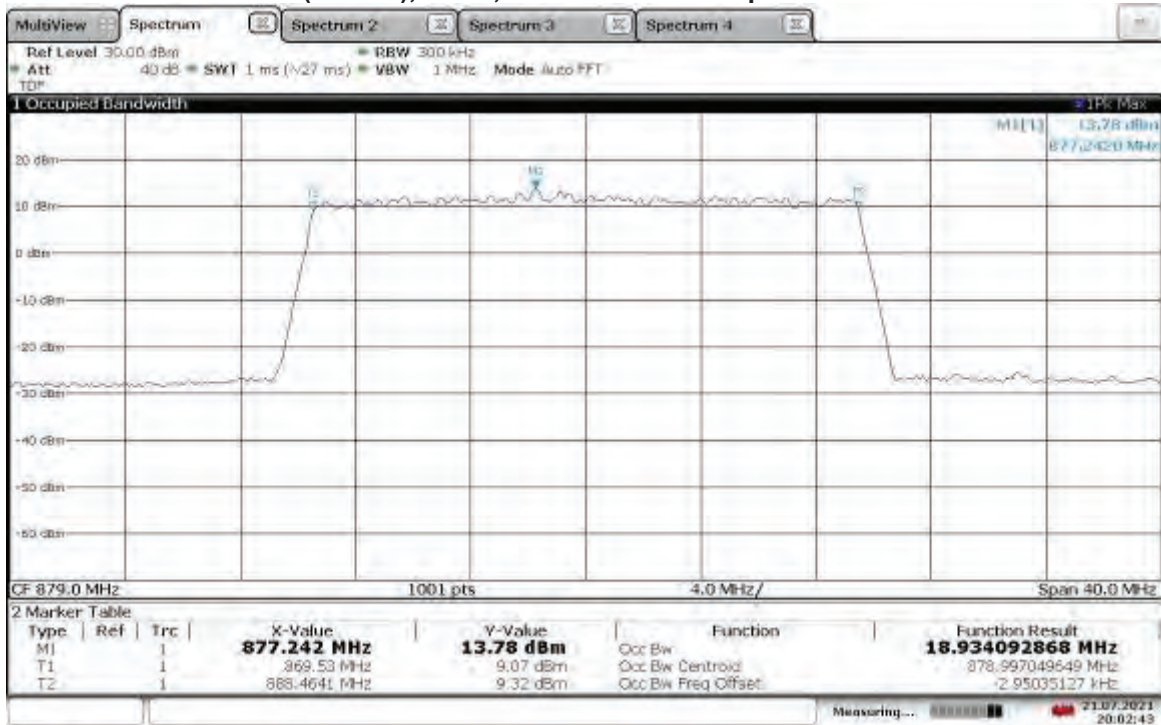
20:43:39 21.07.2021

TM3.1-64QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth



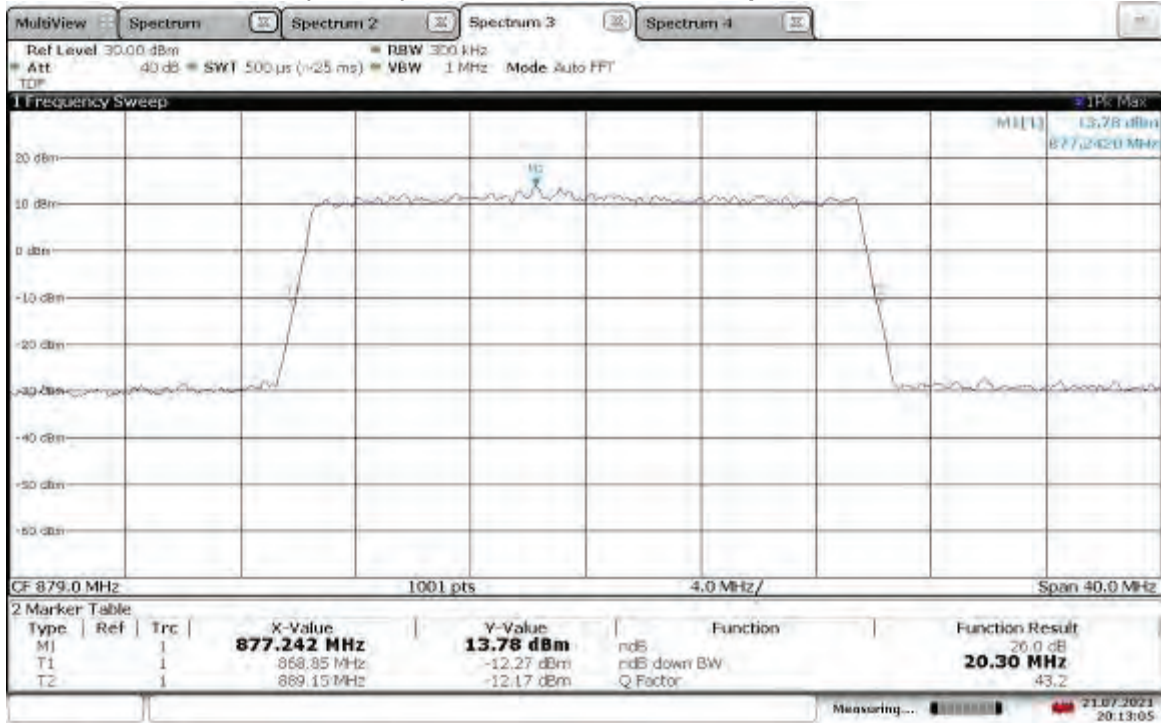
20:47:20 21.07.2021

TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



20:02:44 21.07.2021

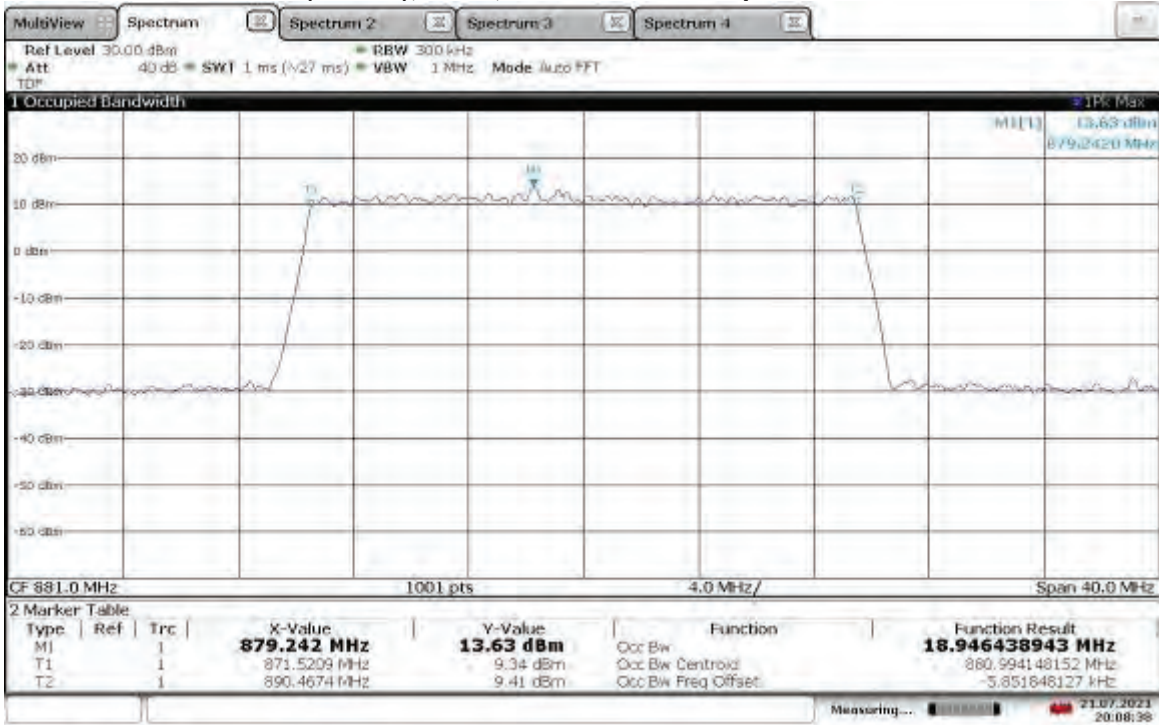
TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



20:13:05 21.07.2021

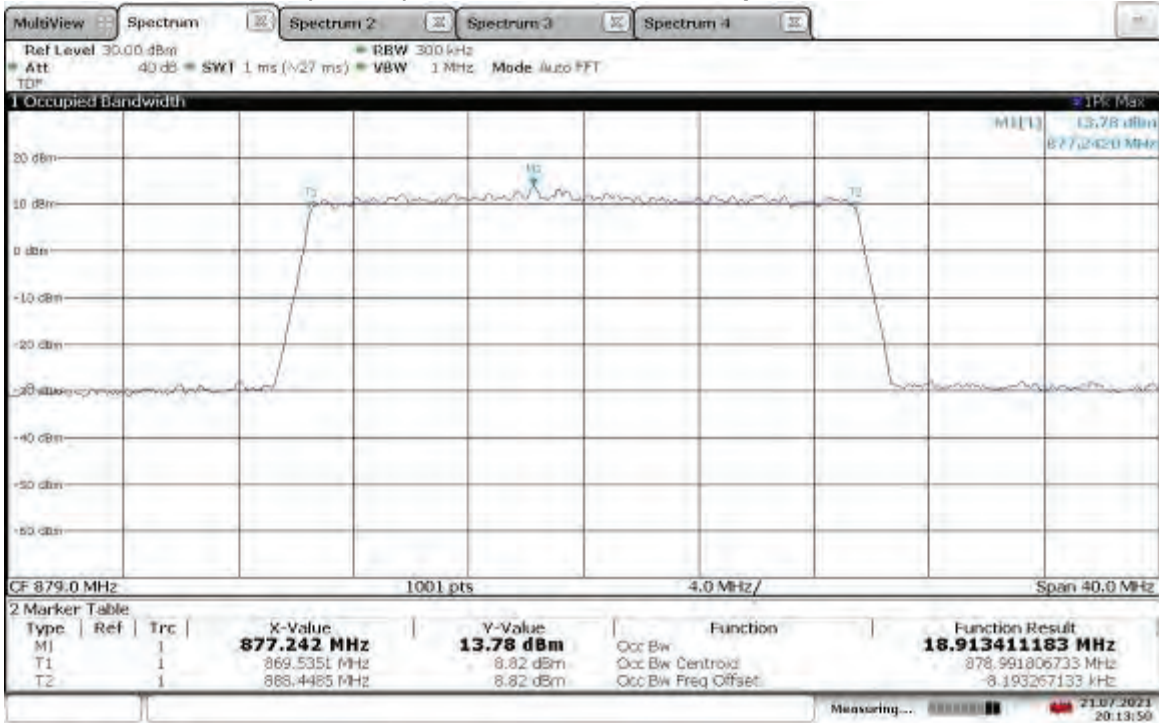


**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth**



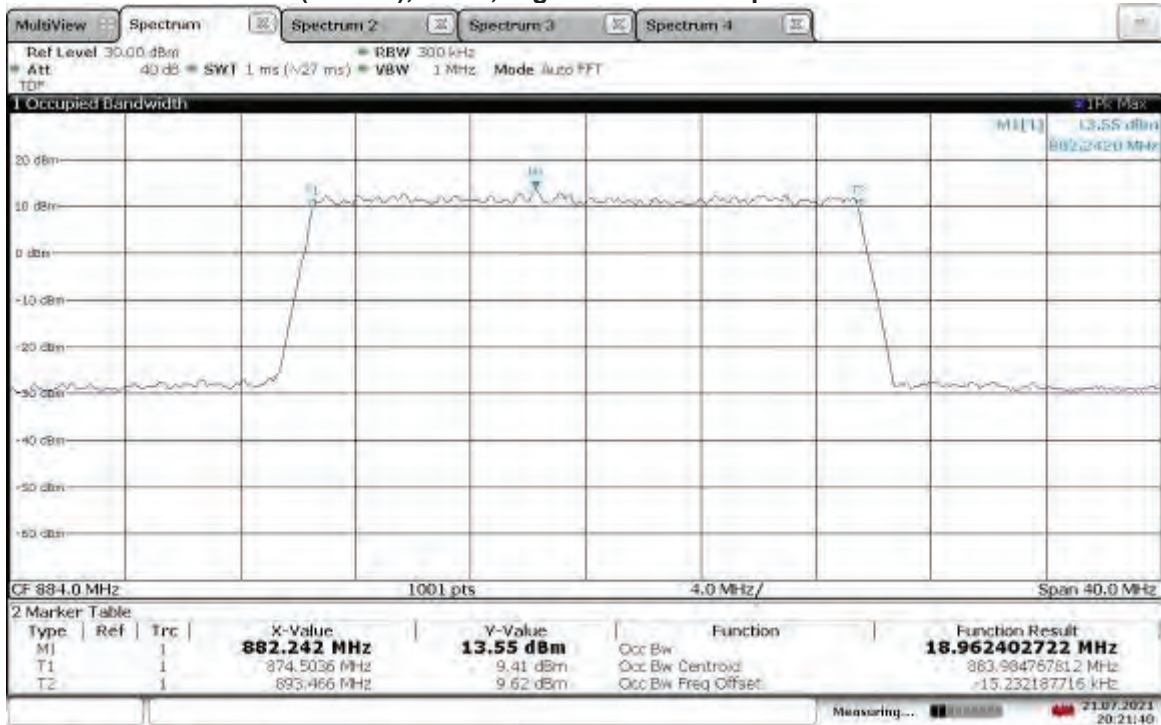
20:08:38 21.07.2021

**TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth**



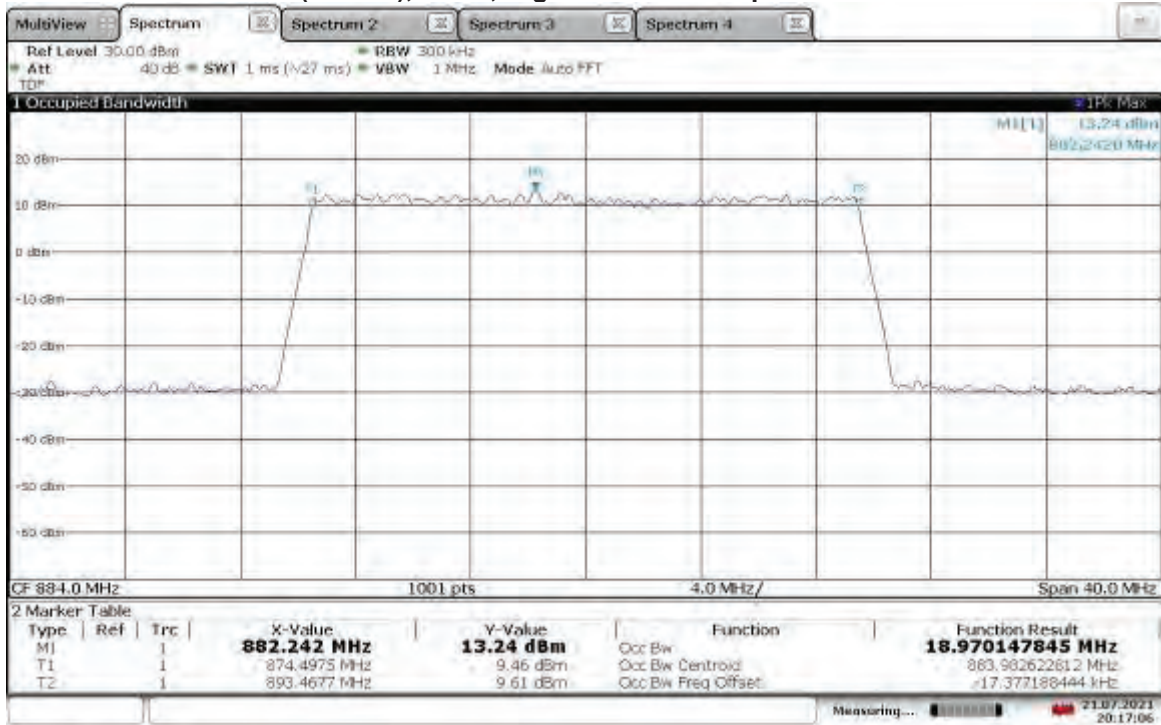
20:13:50 21.07.2021

TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth



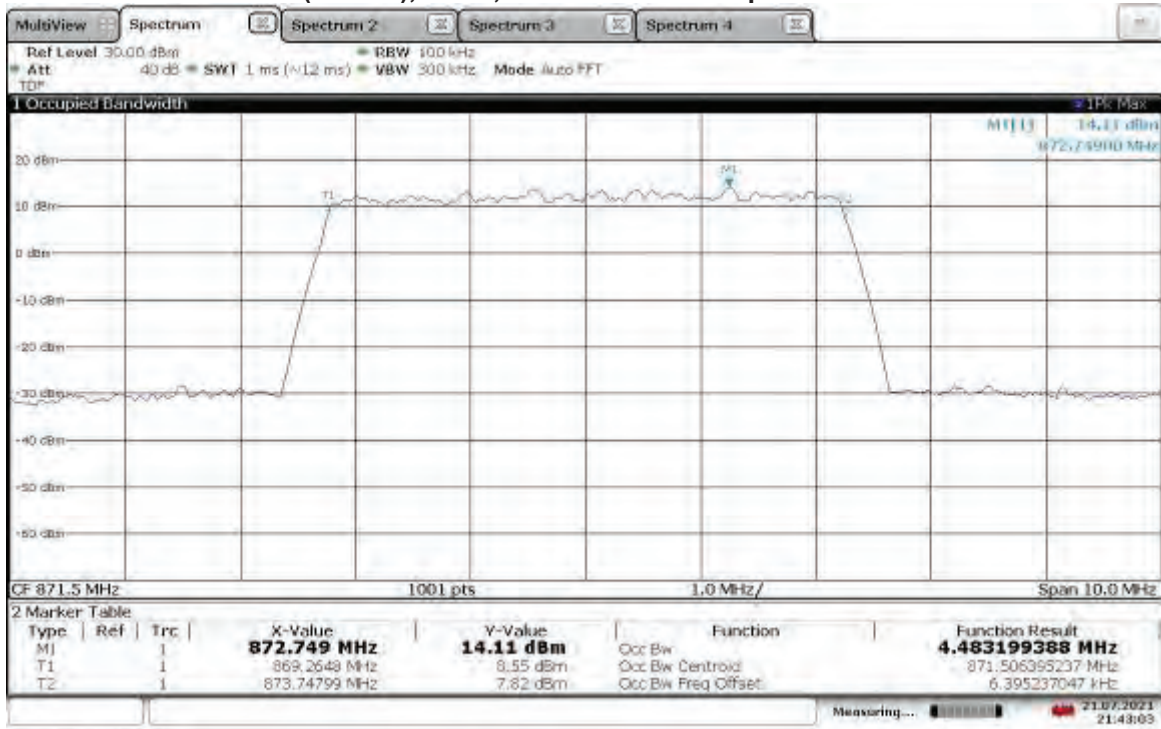
20:21:41 21.07.2021

TM3.1-64QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth



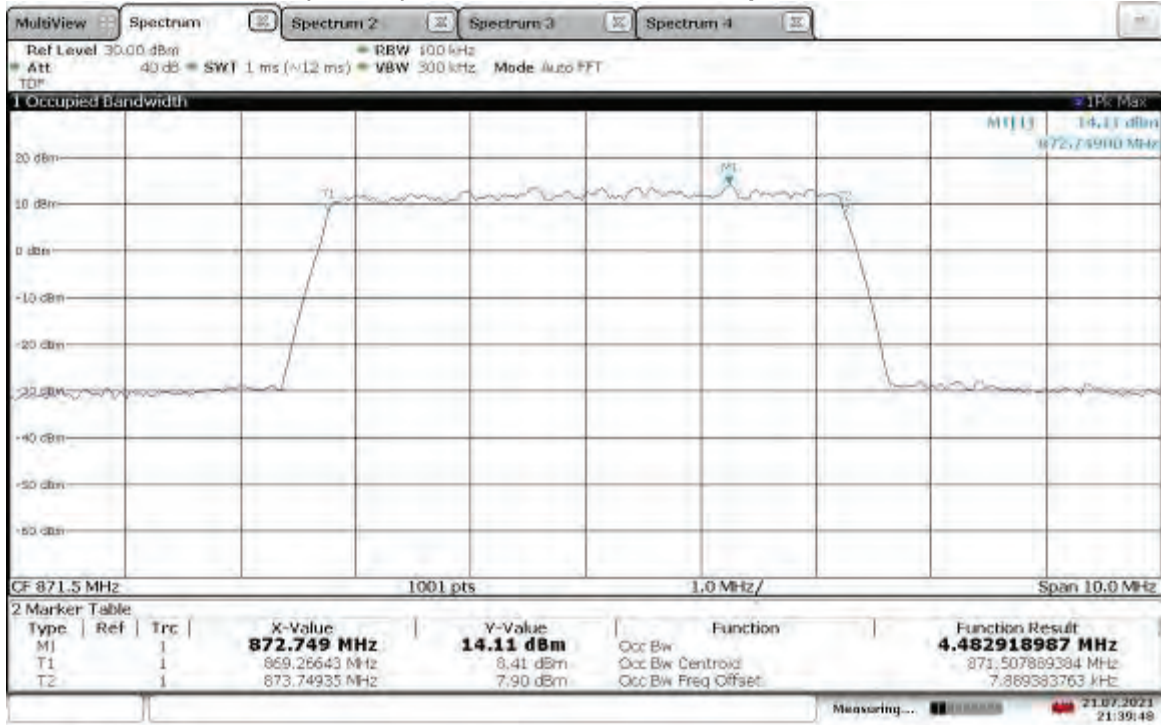
20:17:06 21.07.2021

TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



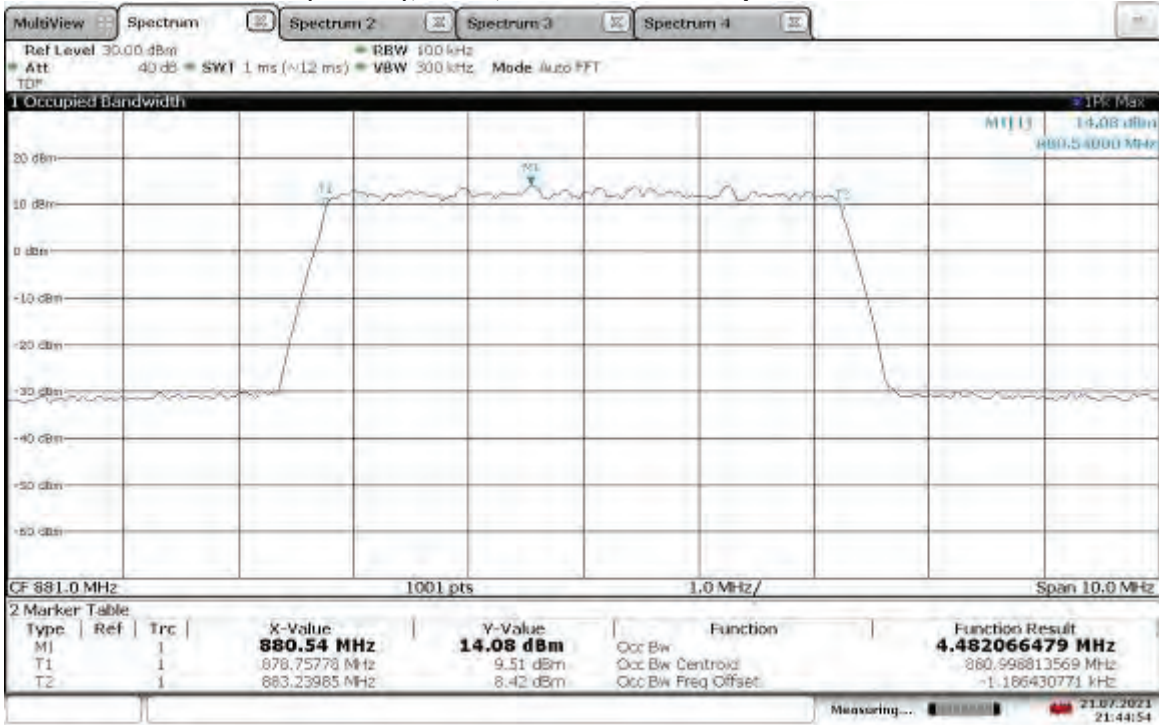
21:43:03 21.07.2021

TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



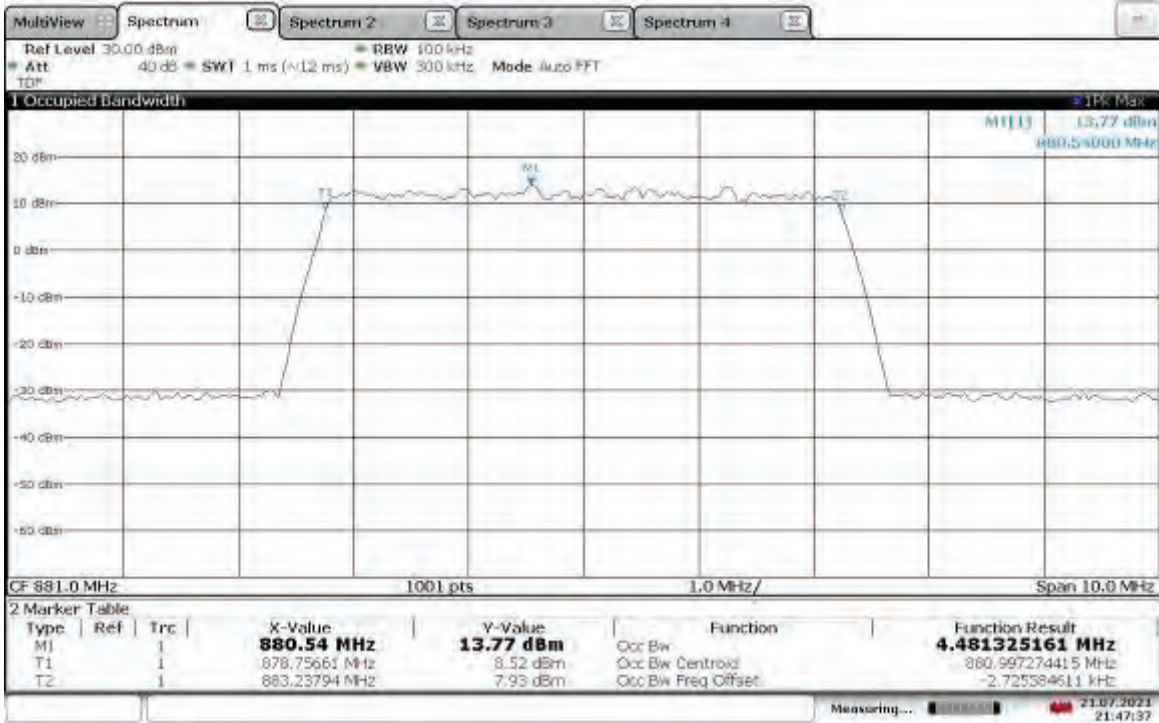
21:39:48 21.07.2021

TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



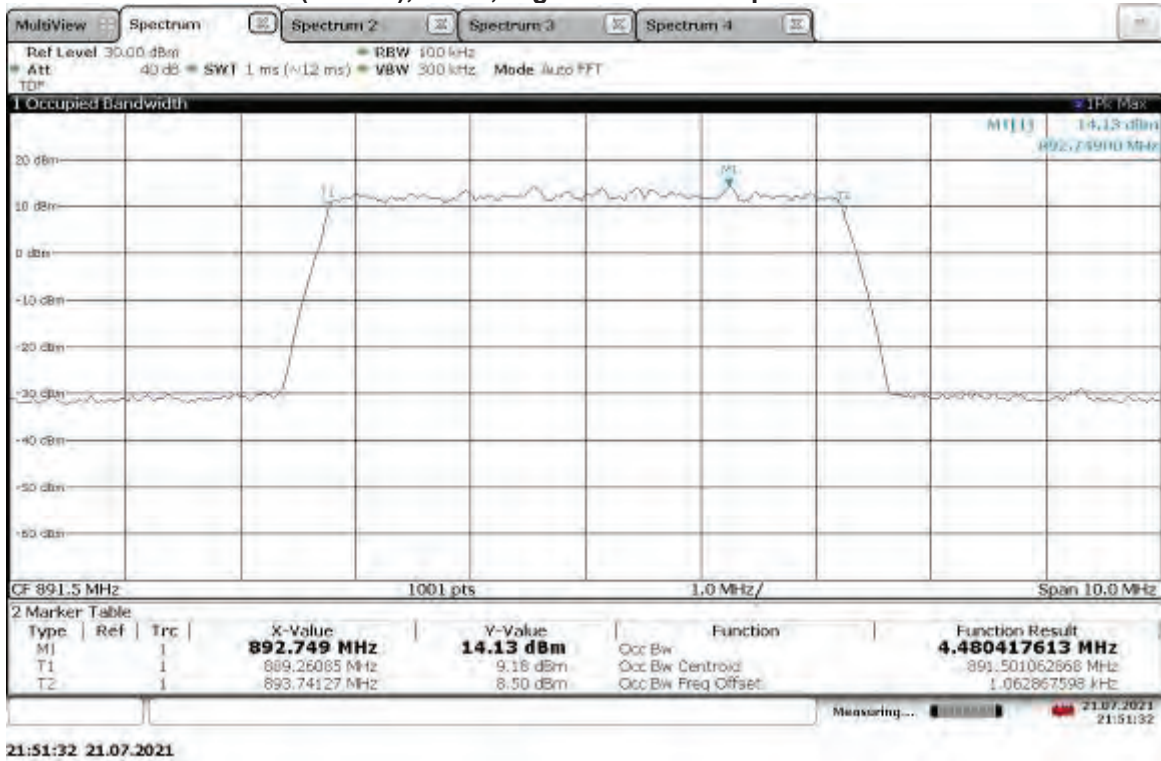
21:44:54 21.07.2021

TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth

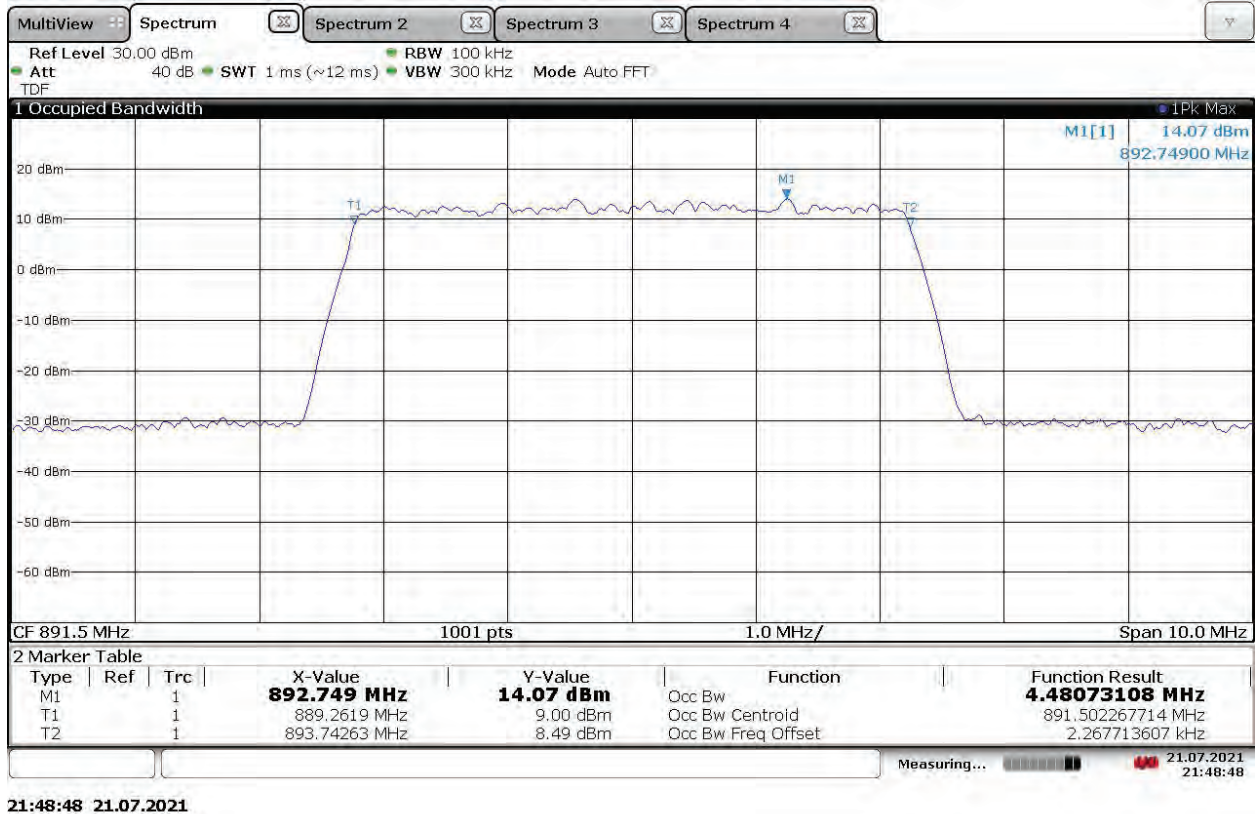


21:47:37 21.07.2021

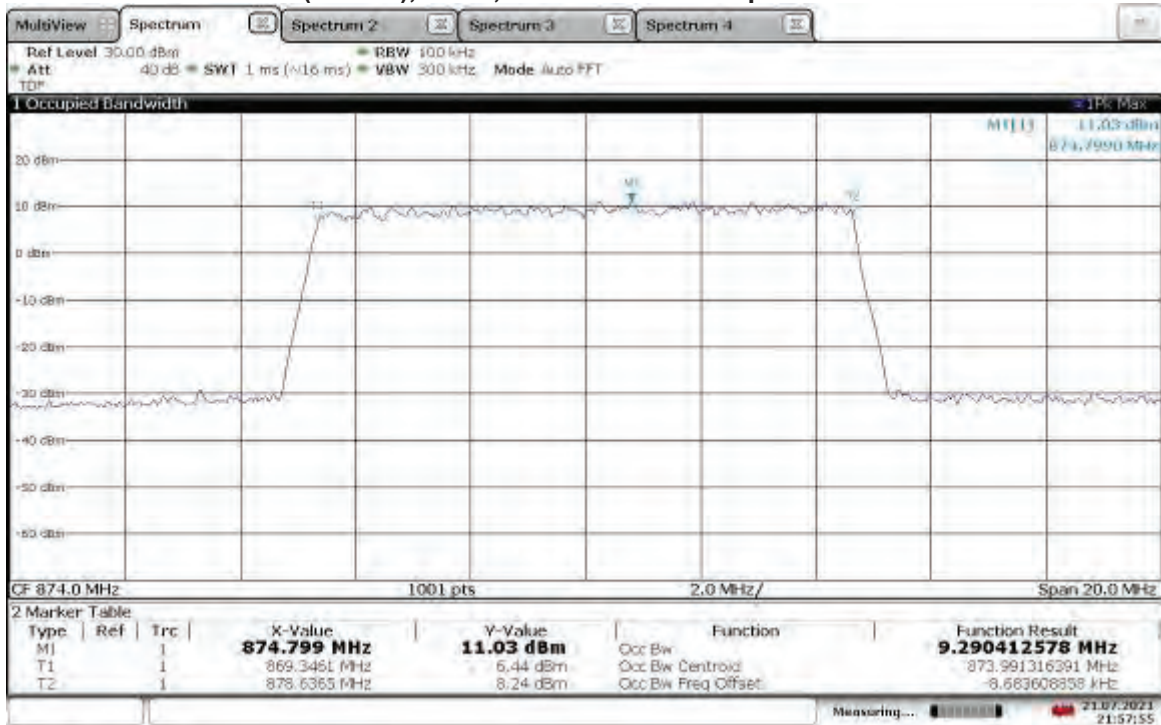
TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth



TM3.1a-256QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth

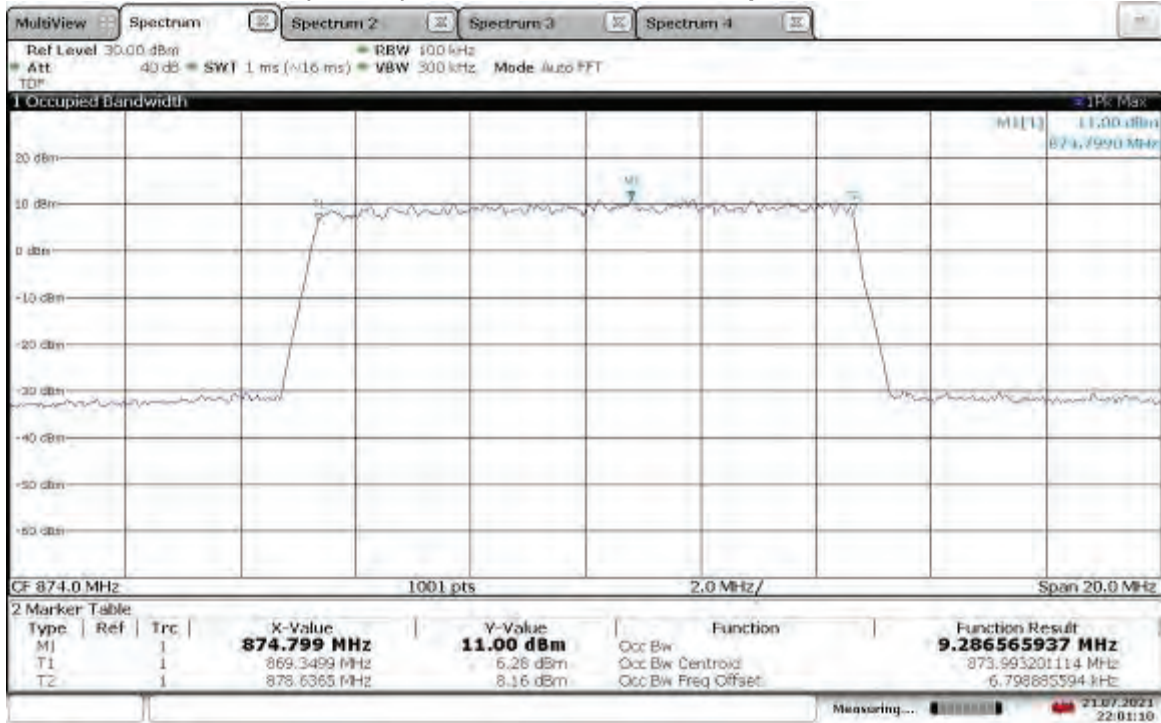


TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



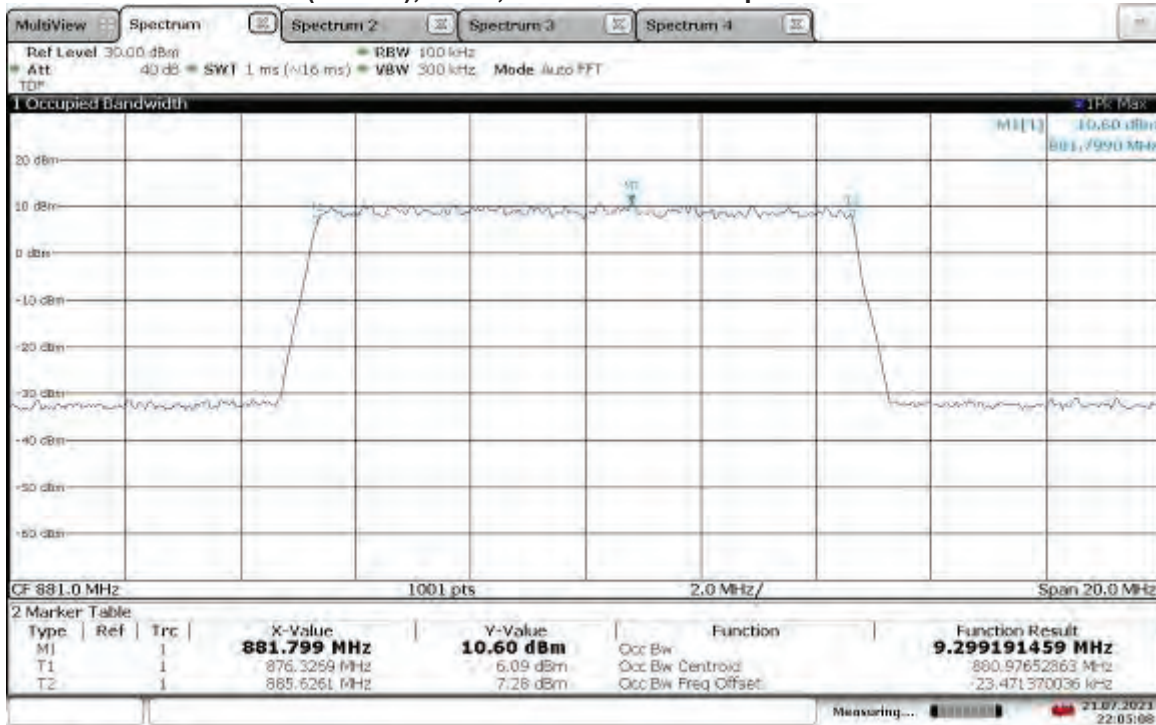
21:57:55 21.07.2021

TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



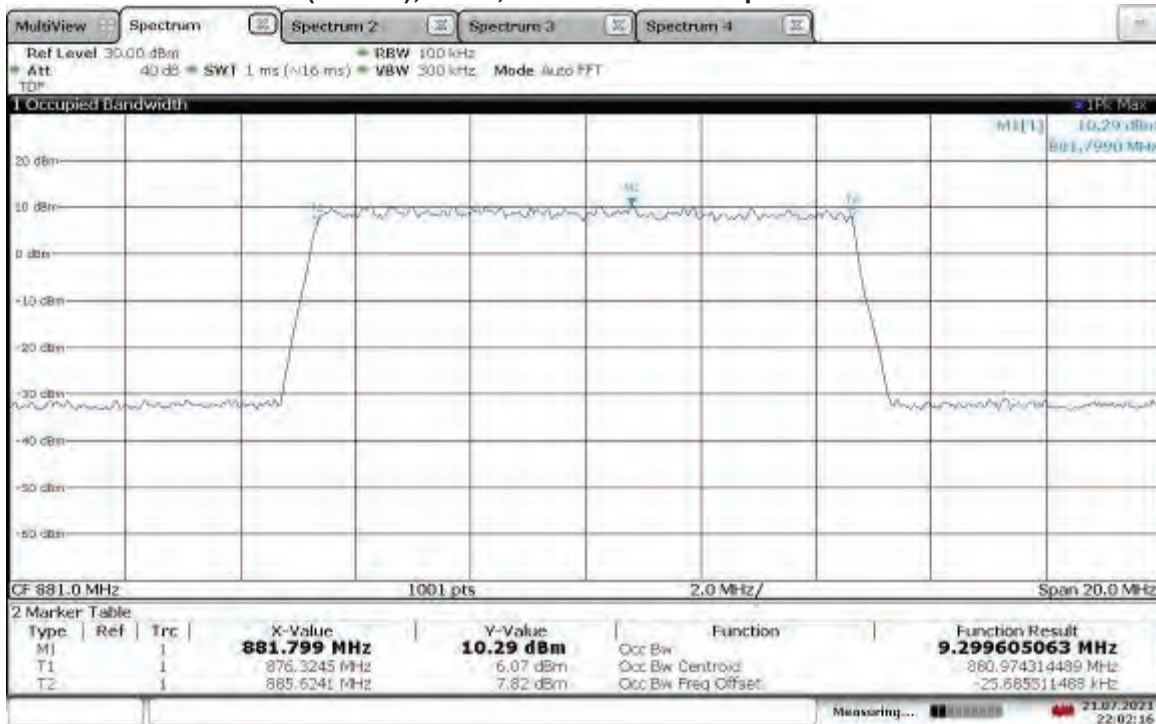
22:01:11 21.07.2021

TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



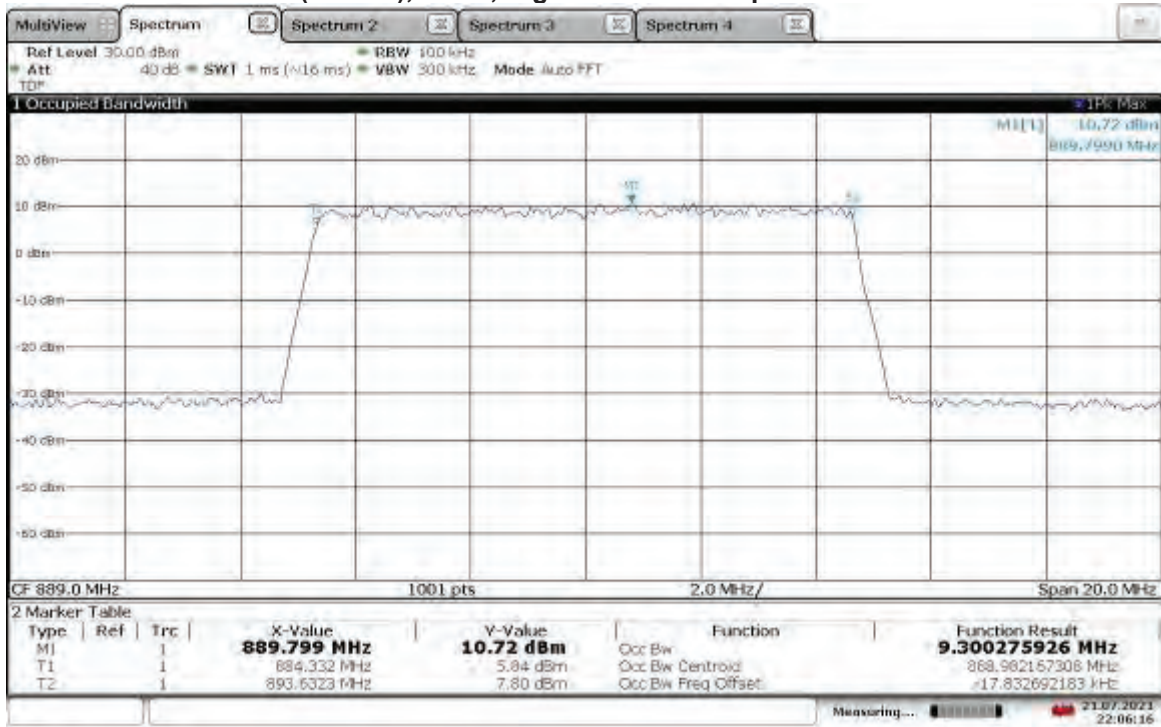
22:05:09 21.07.2021

TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



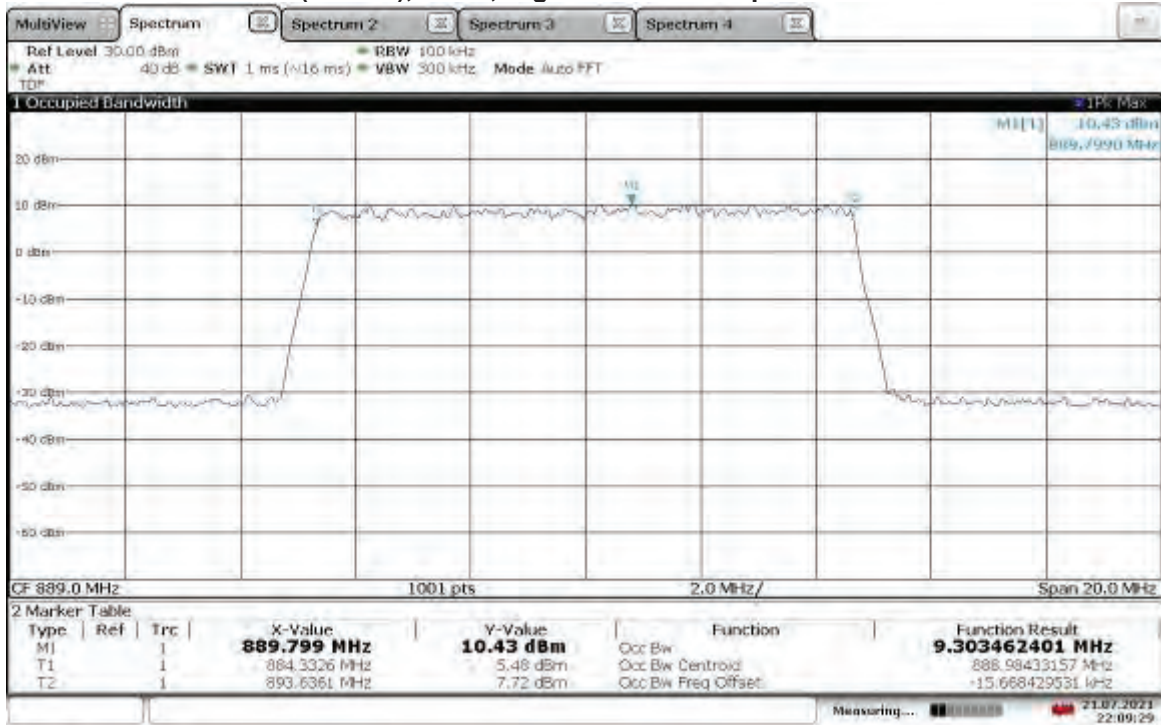
22:02:16 21.07.2021

TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth



22:06:16 21.07.2021

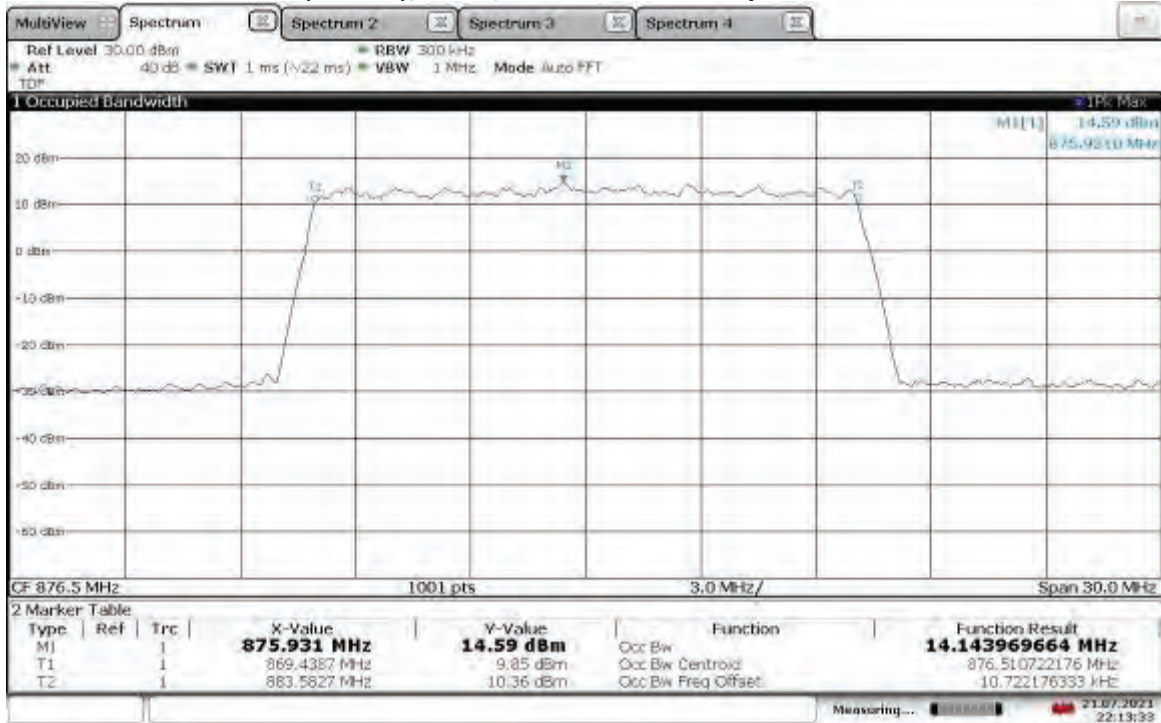
TM3.1a-256QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth



22:09:30 21.07.2021

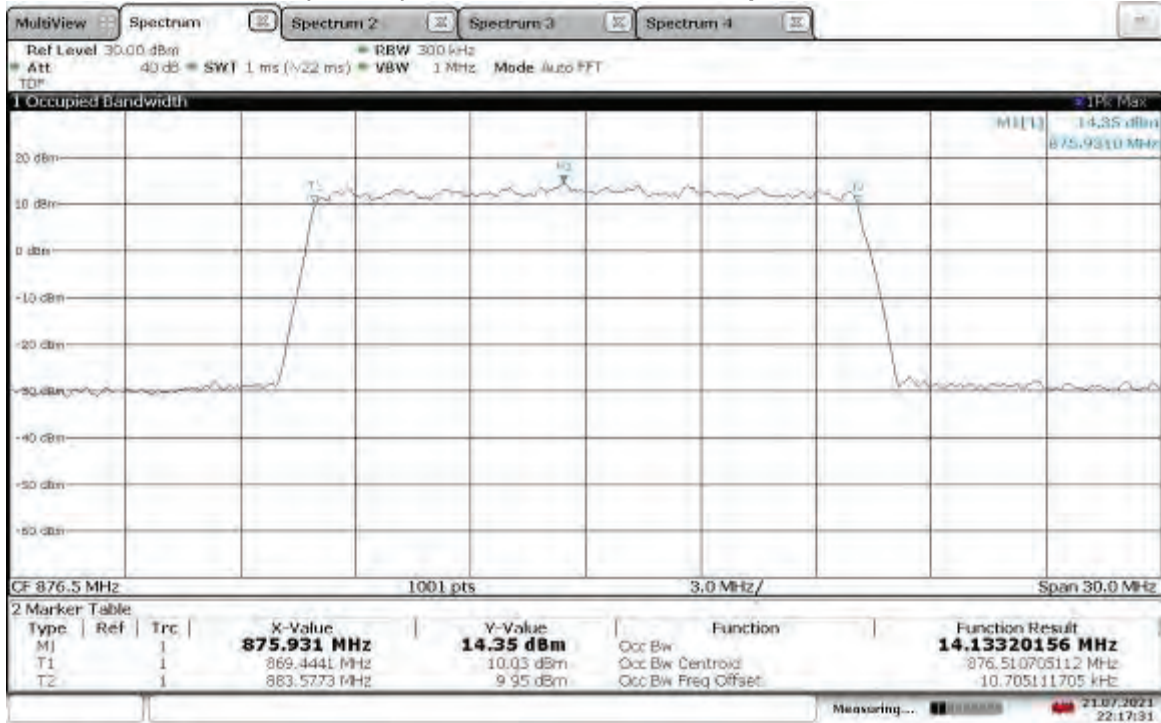


**TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth**



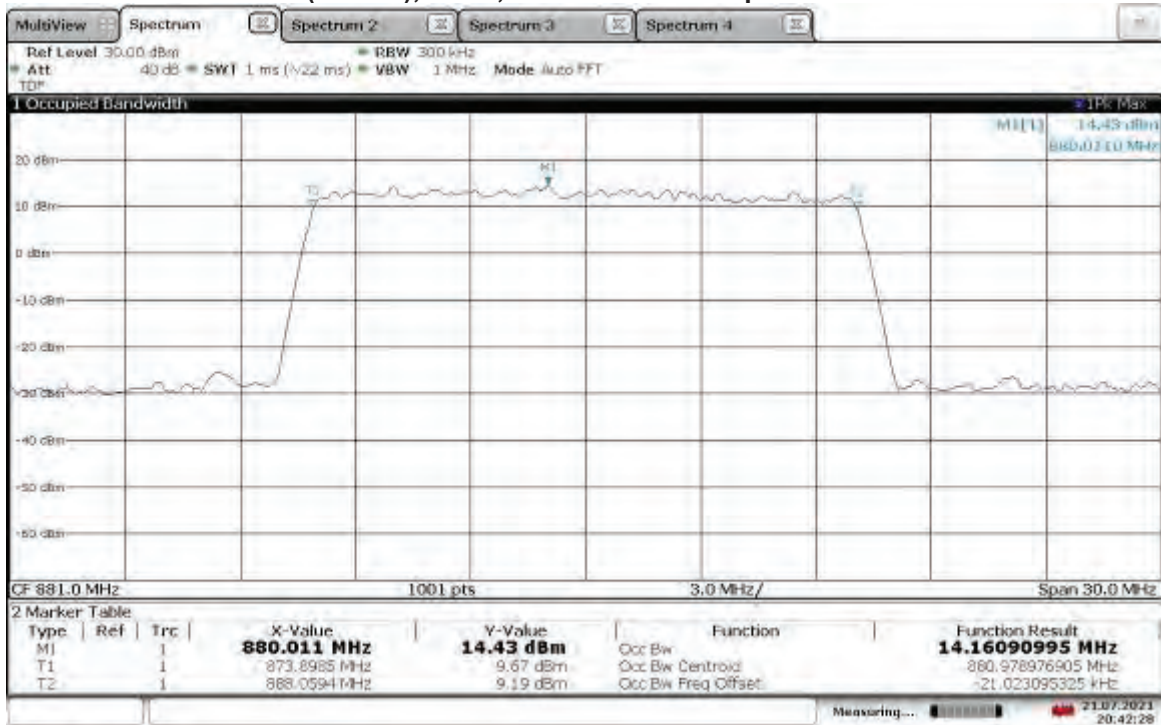
22:13:34 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth**



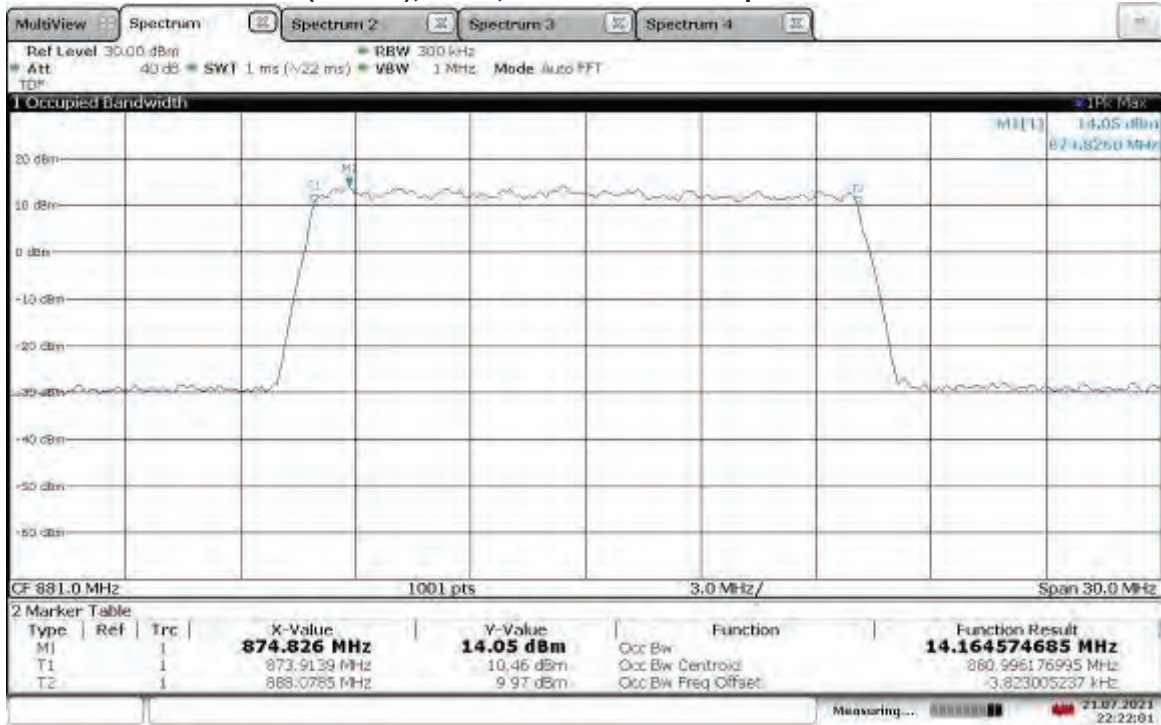
22:17:32 21.07.2021

TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



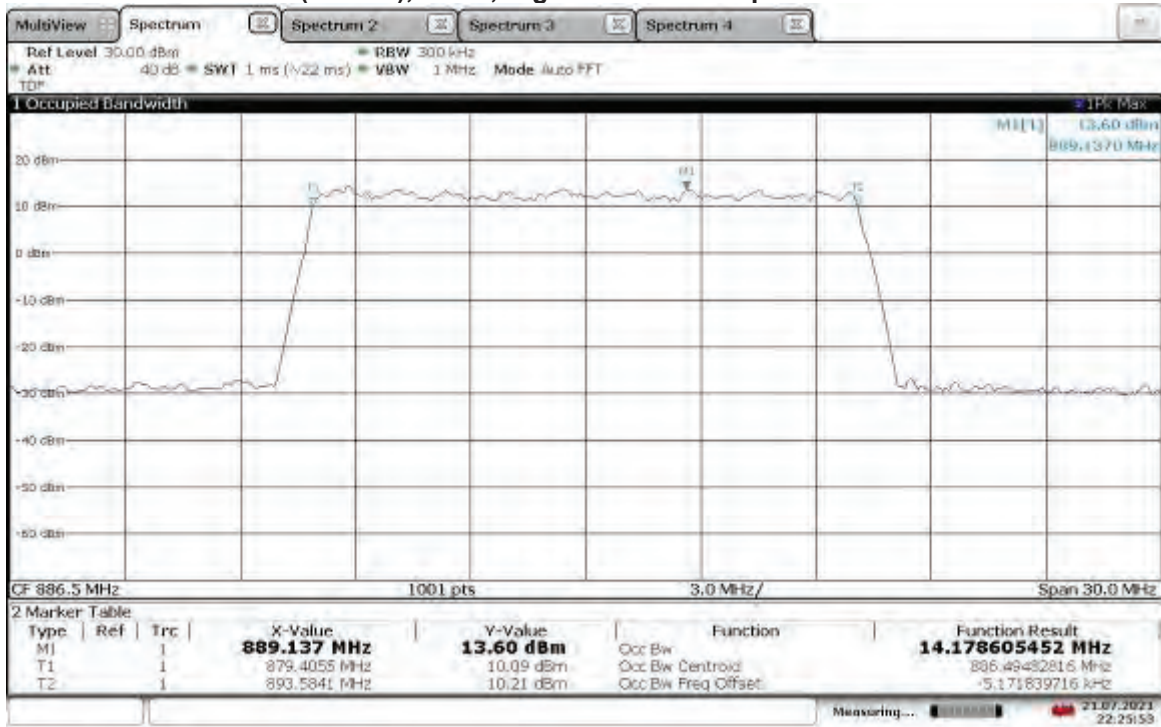
20:42:29 21.07.2021

TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



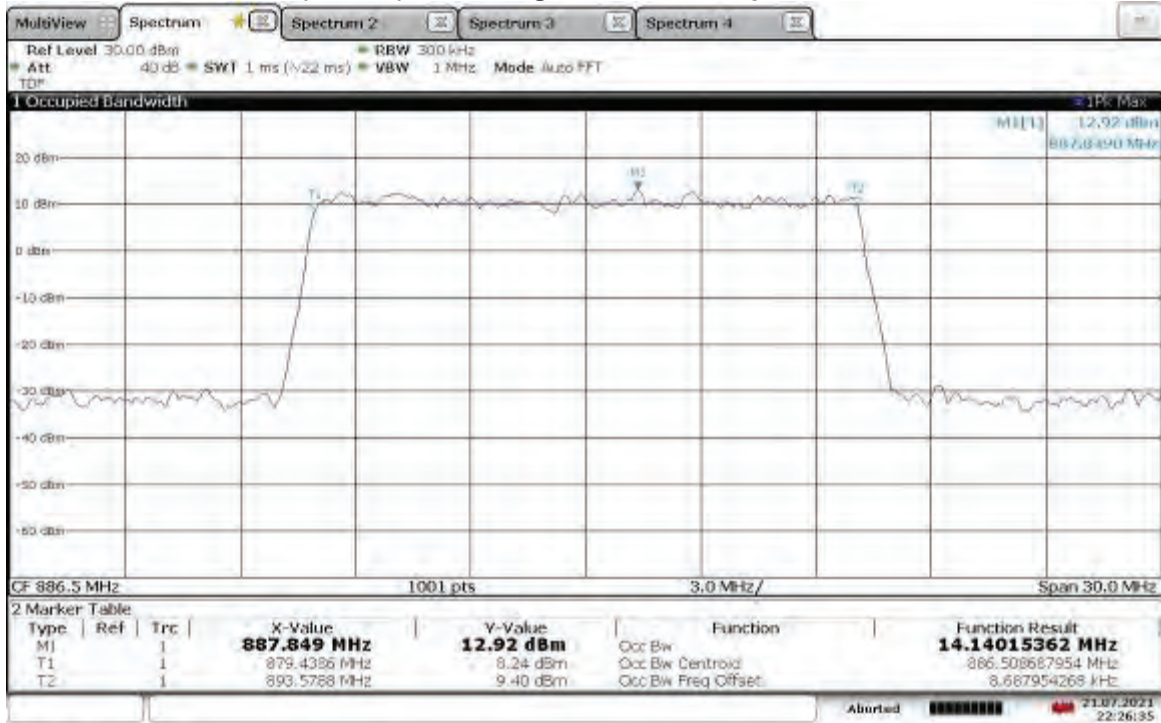
22:22:02 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth**



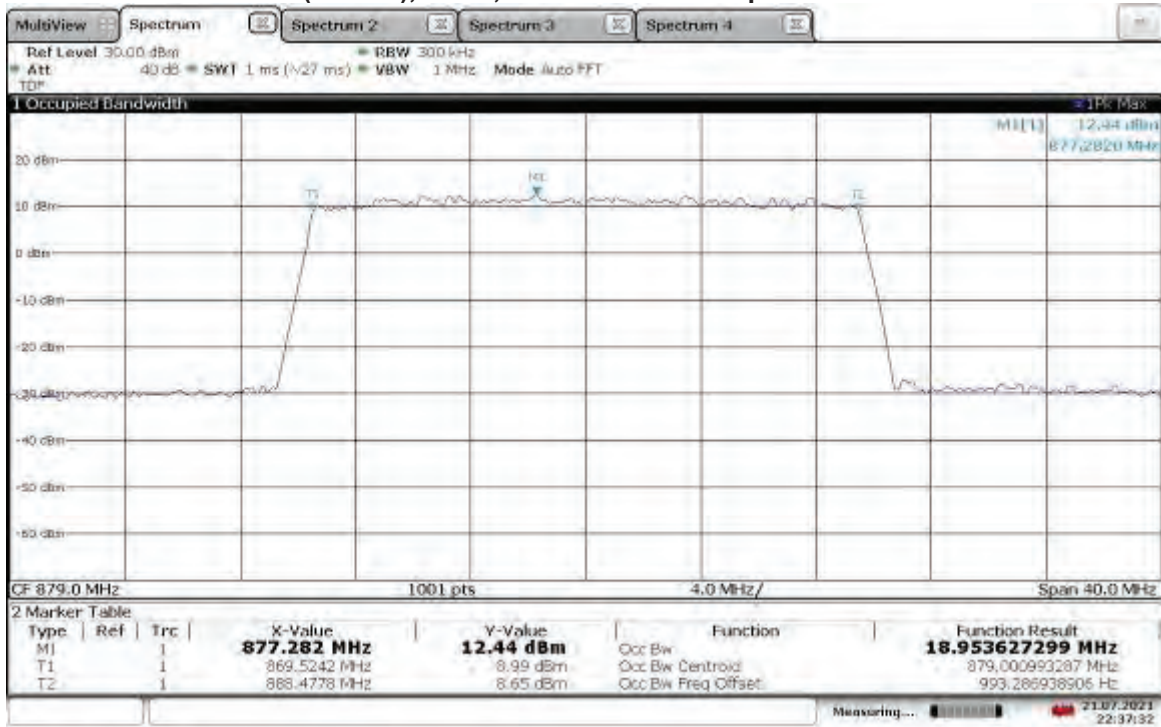
22:25:53 21.07.2021

**TM3.1a-256QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth**



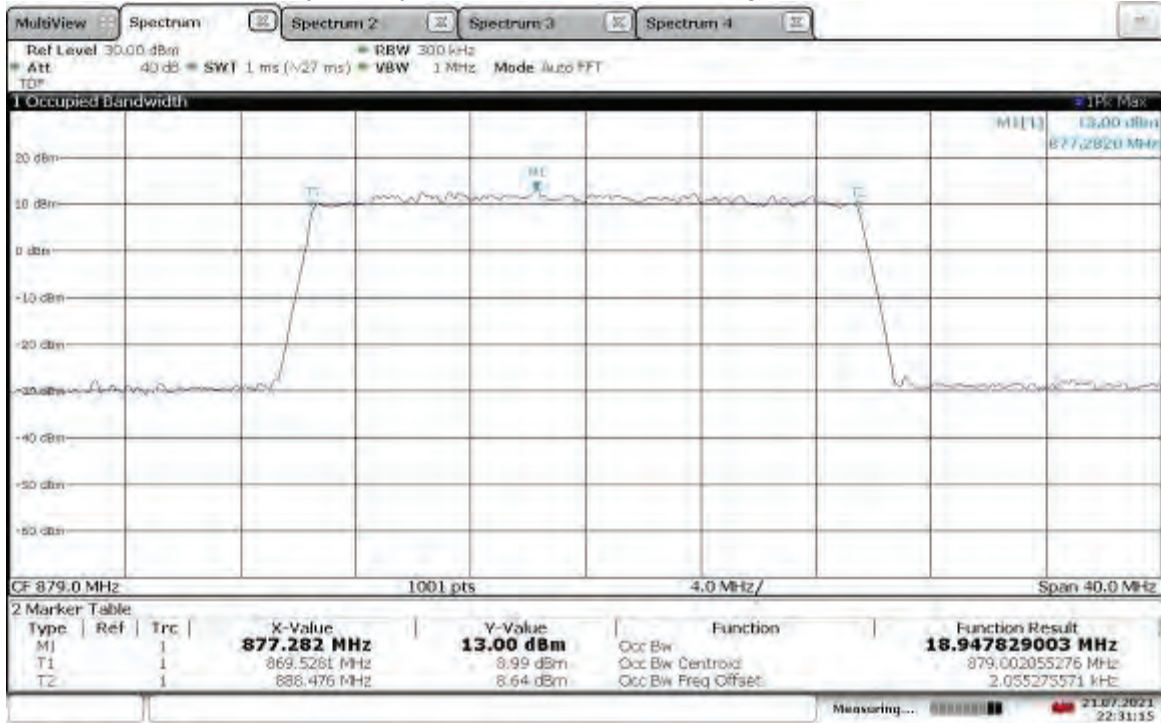
22:26:35 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel Occupied Bandwidth



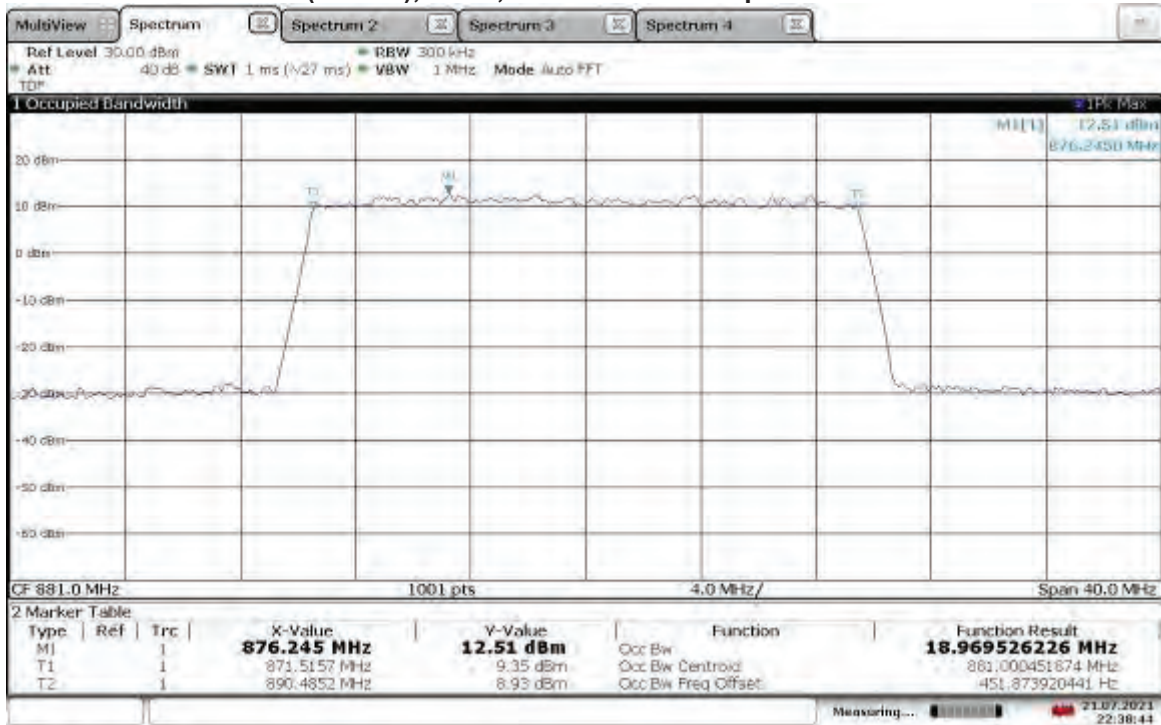
22:37:33 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel Occupied Bandwidth



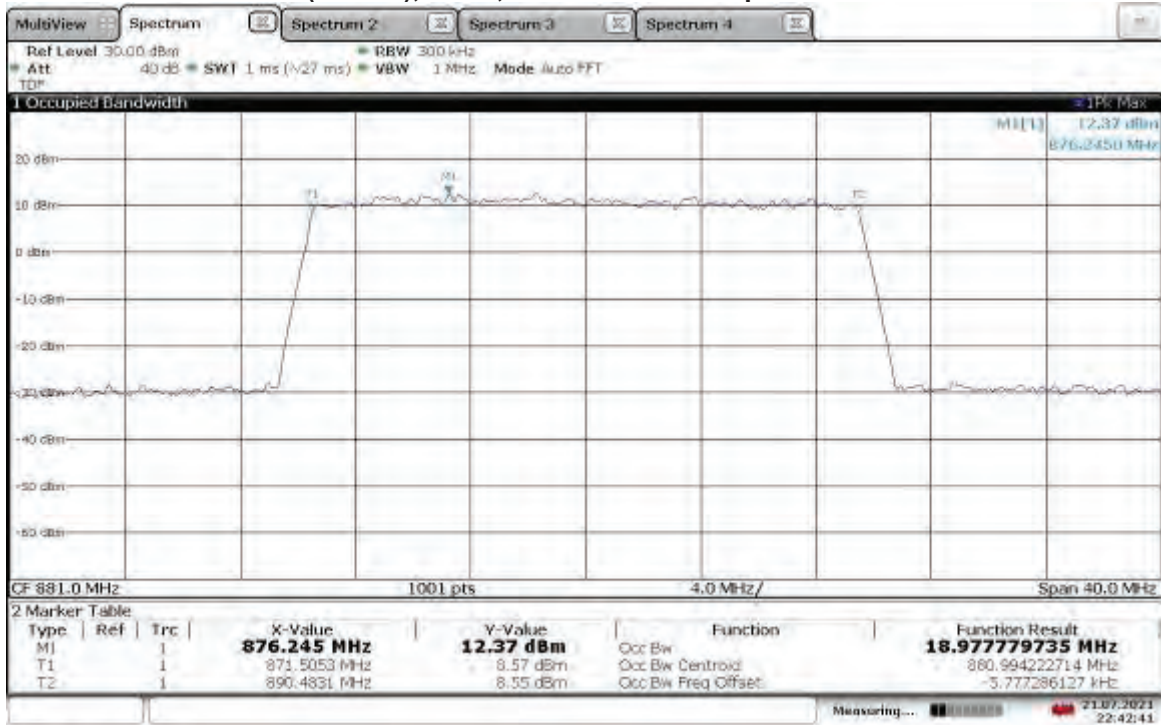
22:31:15 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel Occupied Bandwidth



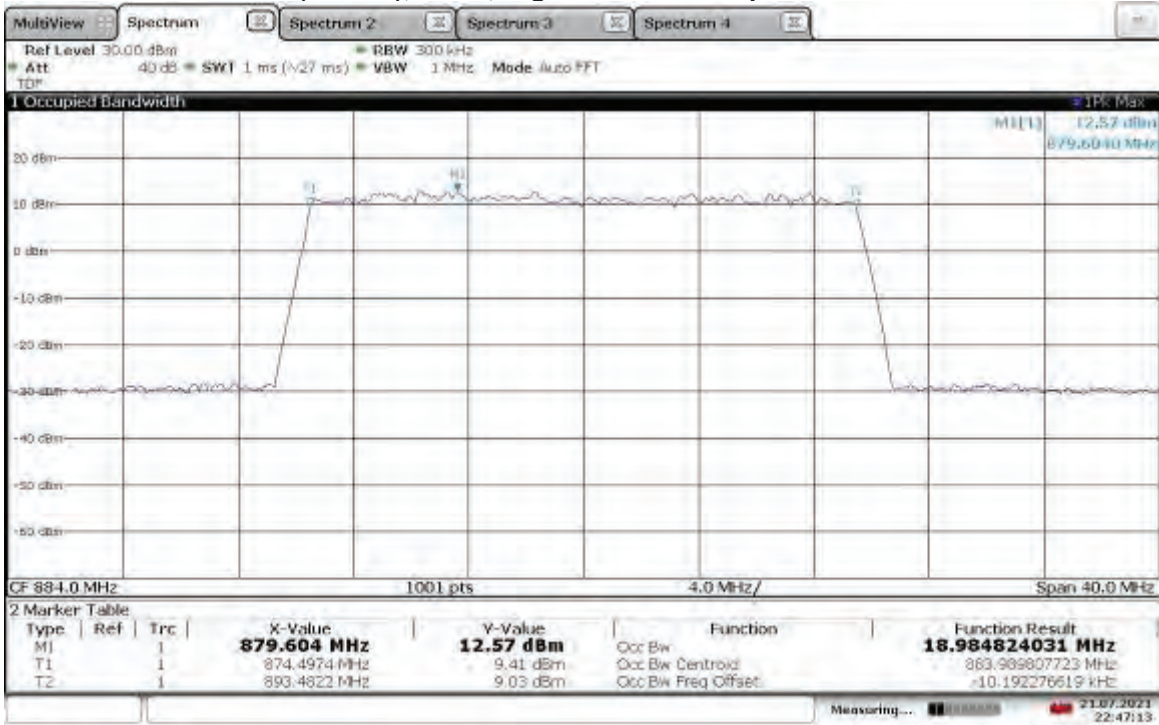
22:38:44 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel Occupied Bandwidth



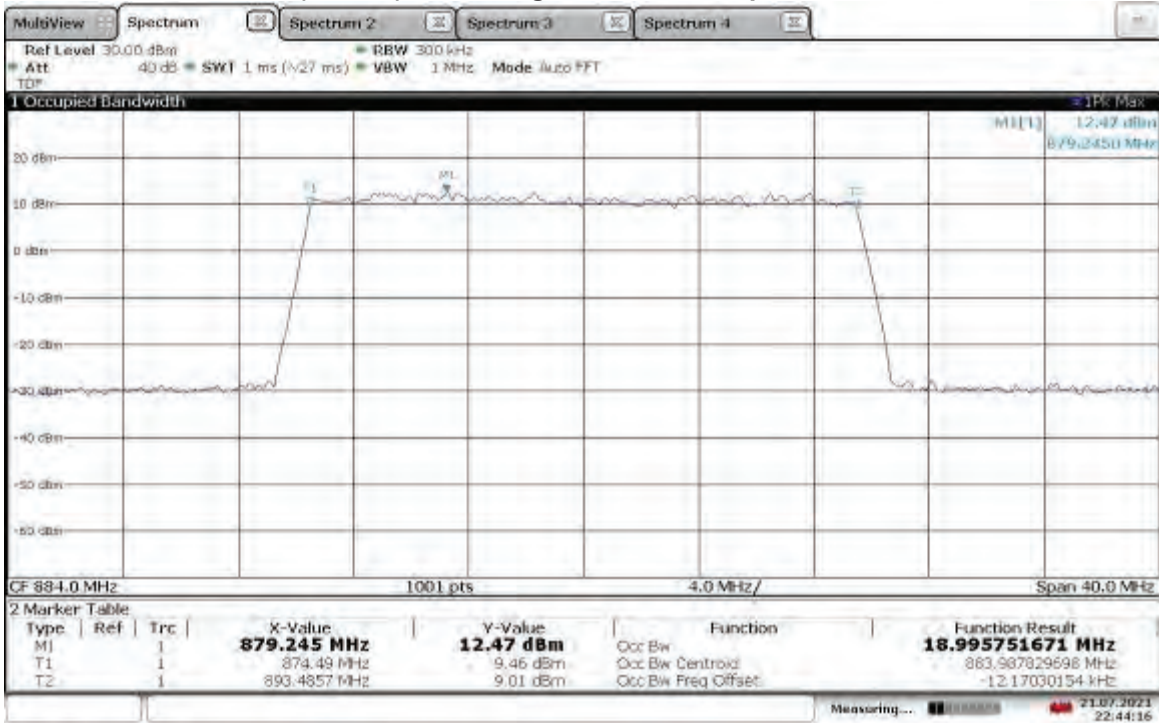
22:42:41 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel Occupied Bandwidth



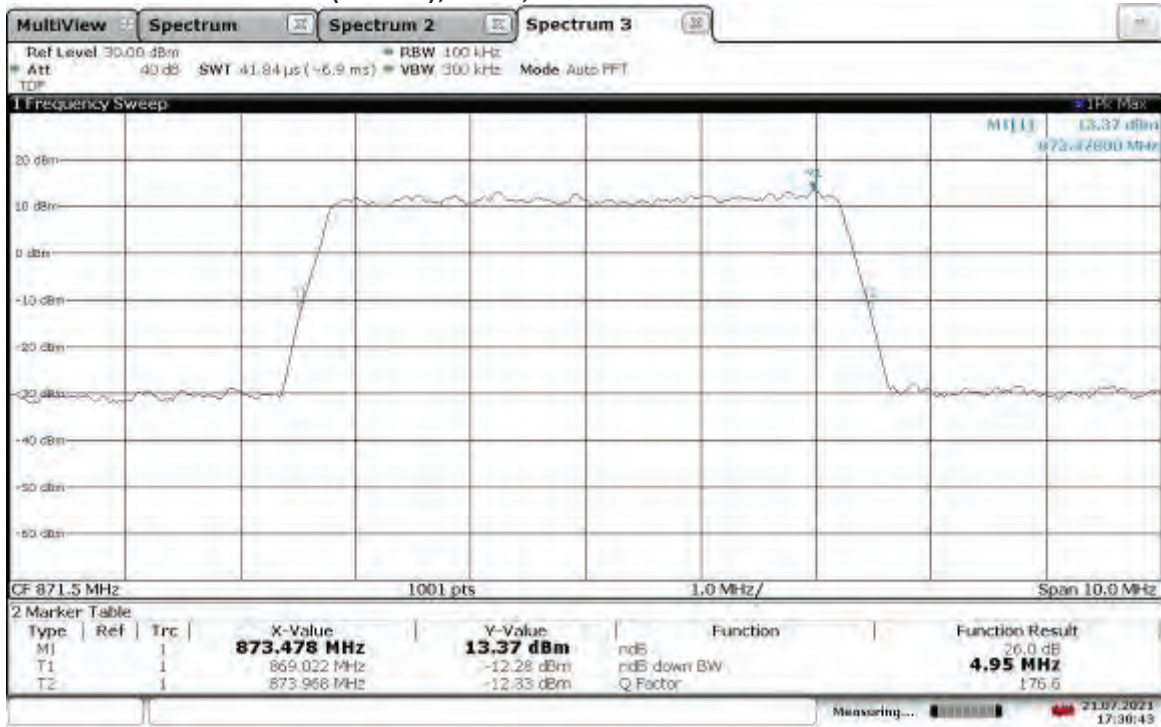
22:47:14 21.07.2021

TM3.1a-256QAM\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel Occupied Bandwidth



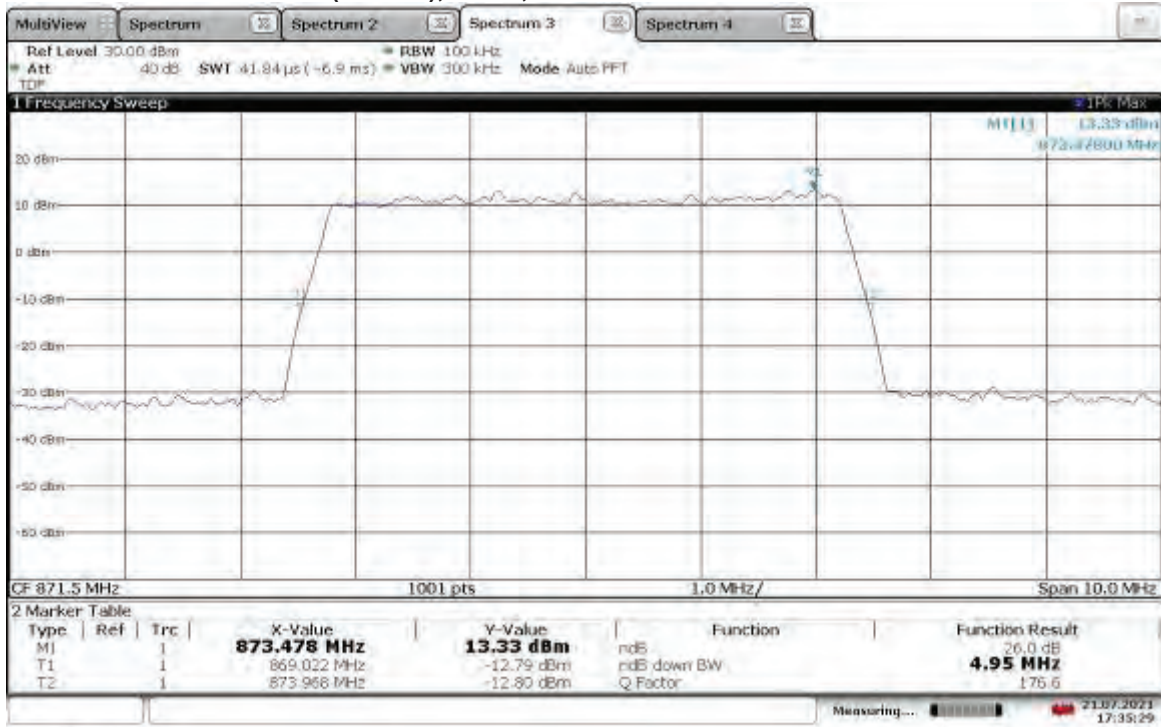
22:44:16 21.07.2021

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth



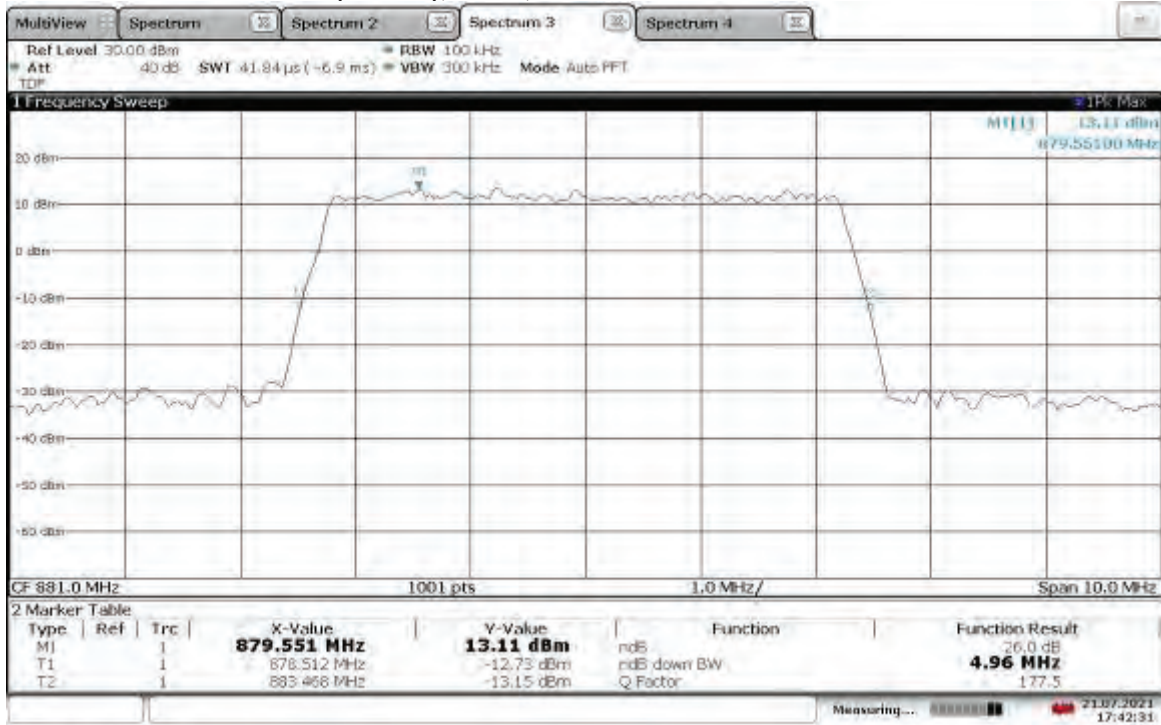
17:30:43 21.07.2021

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth



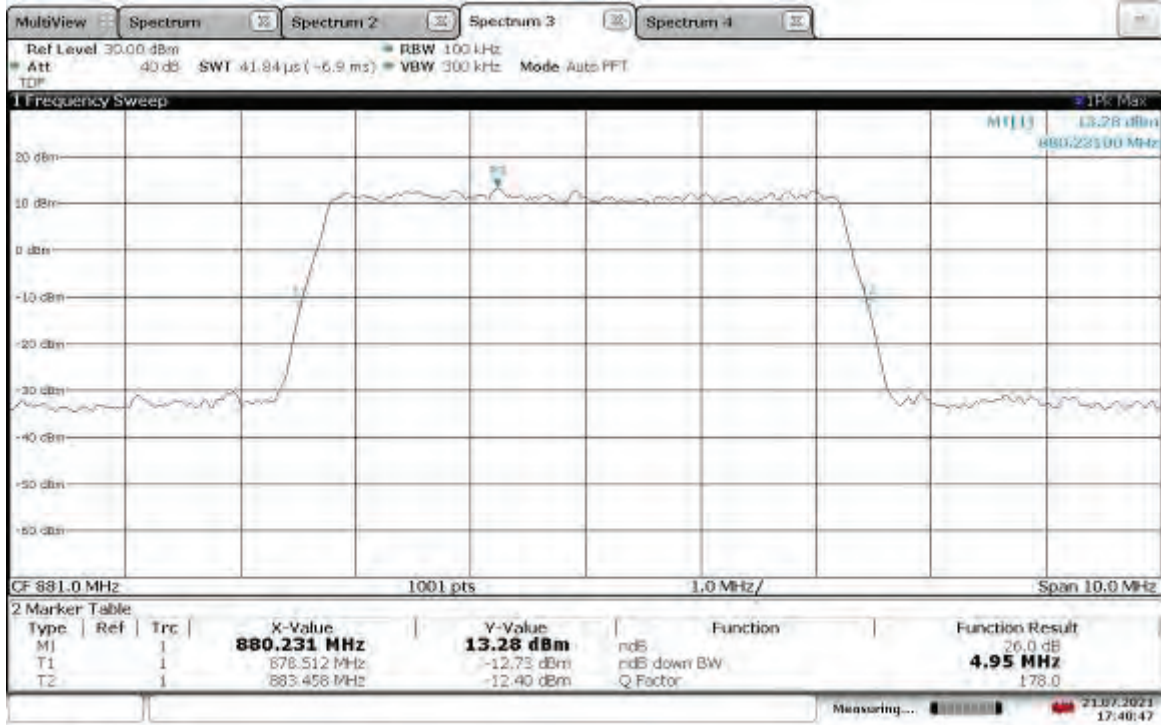
17:35:30 21.07.2021

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth



17:42:31 21.07.2021

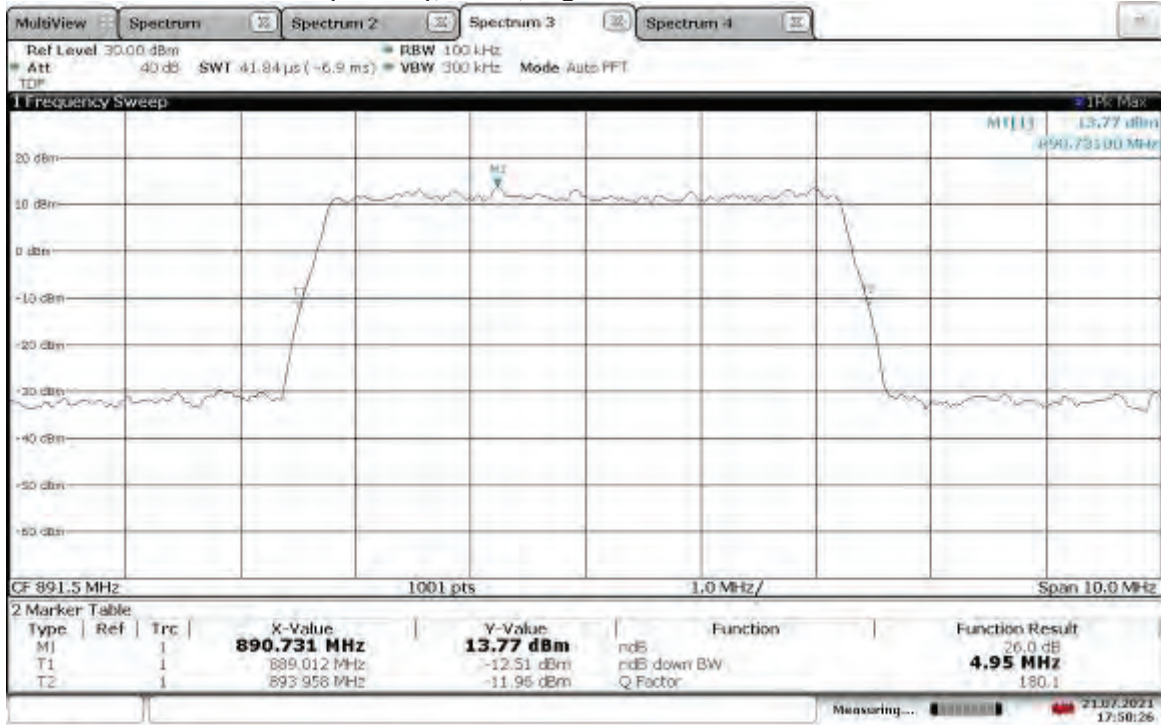
TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth



17:40:48 21.07.2021

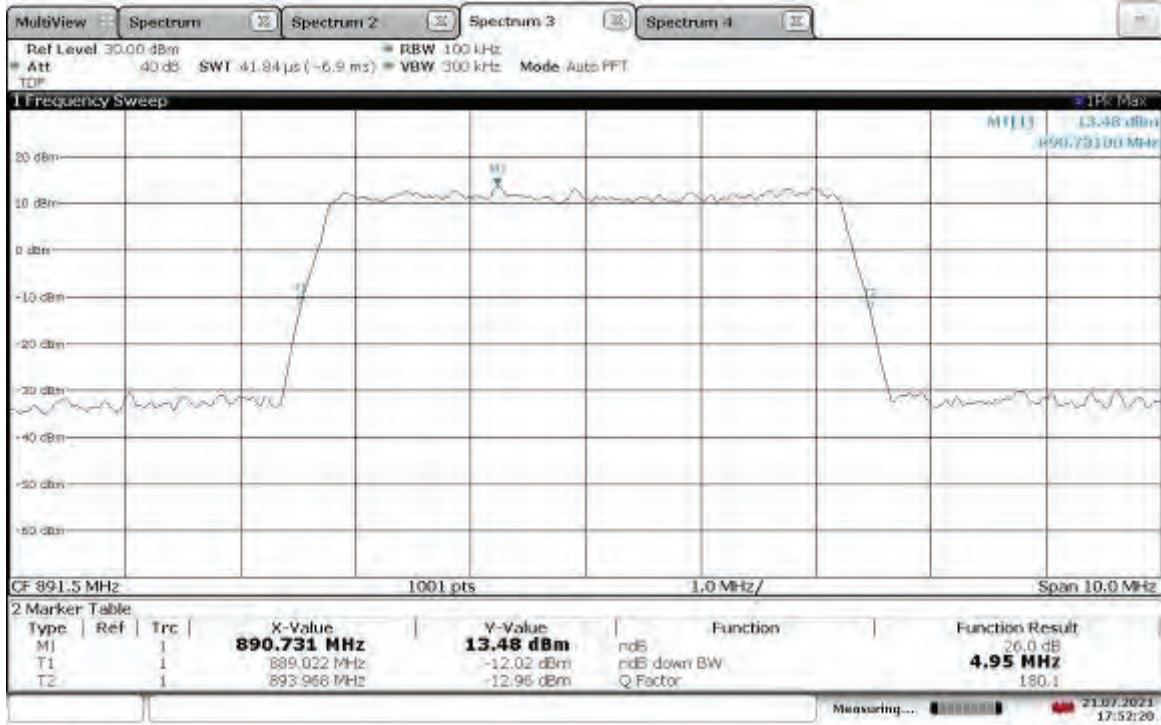


TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 26dB Bandwidth



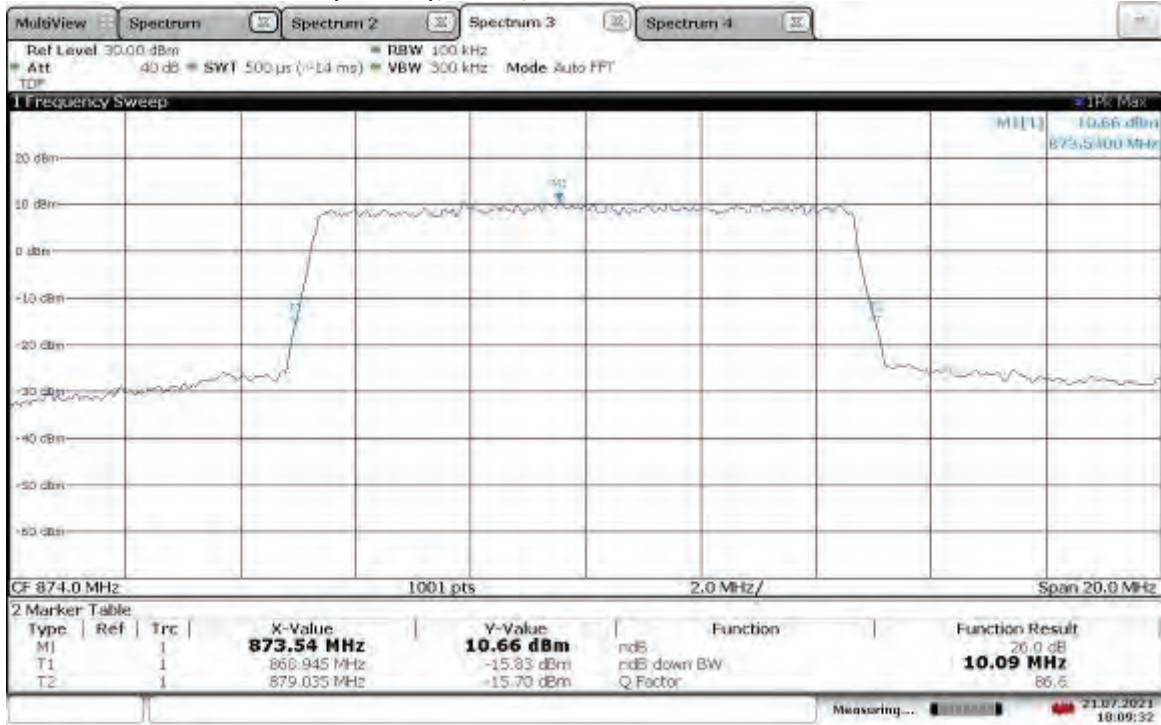
17:50:26 21.07.2021

TM1.1-QPSK\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 26dB Bandwidth



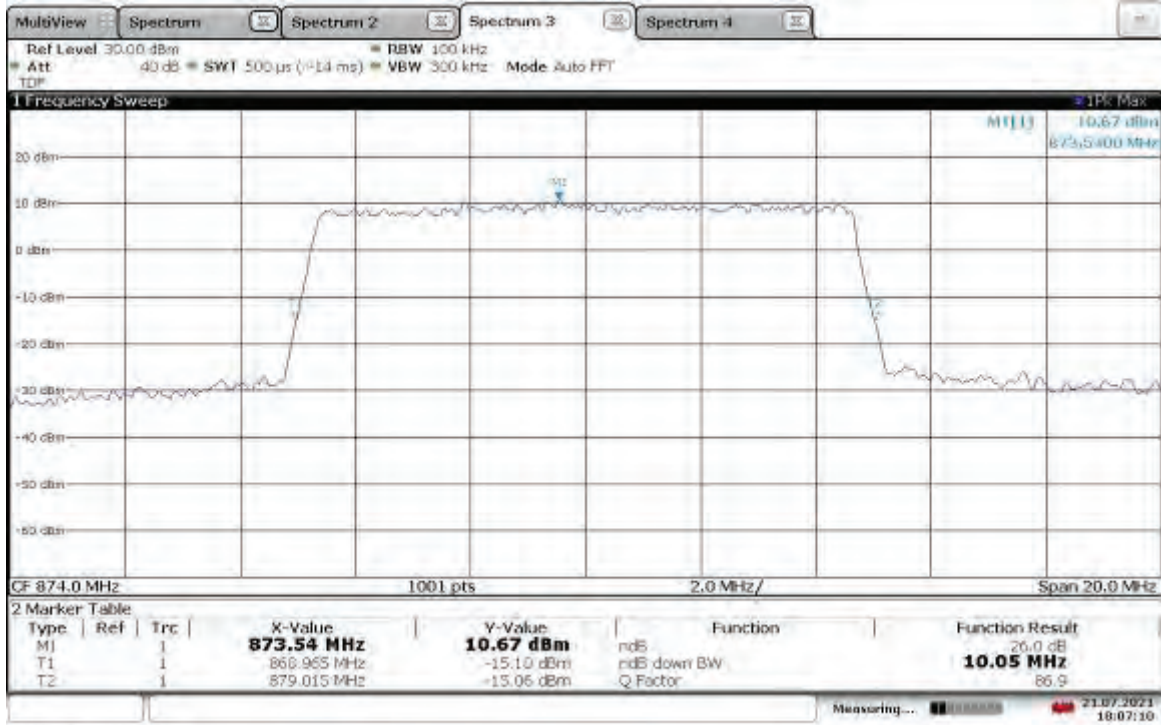
17:52:20 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth



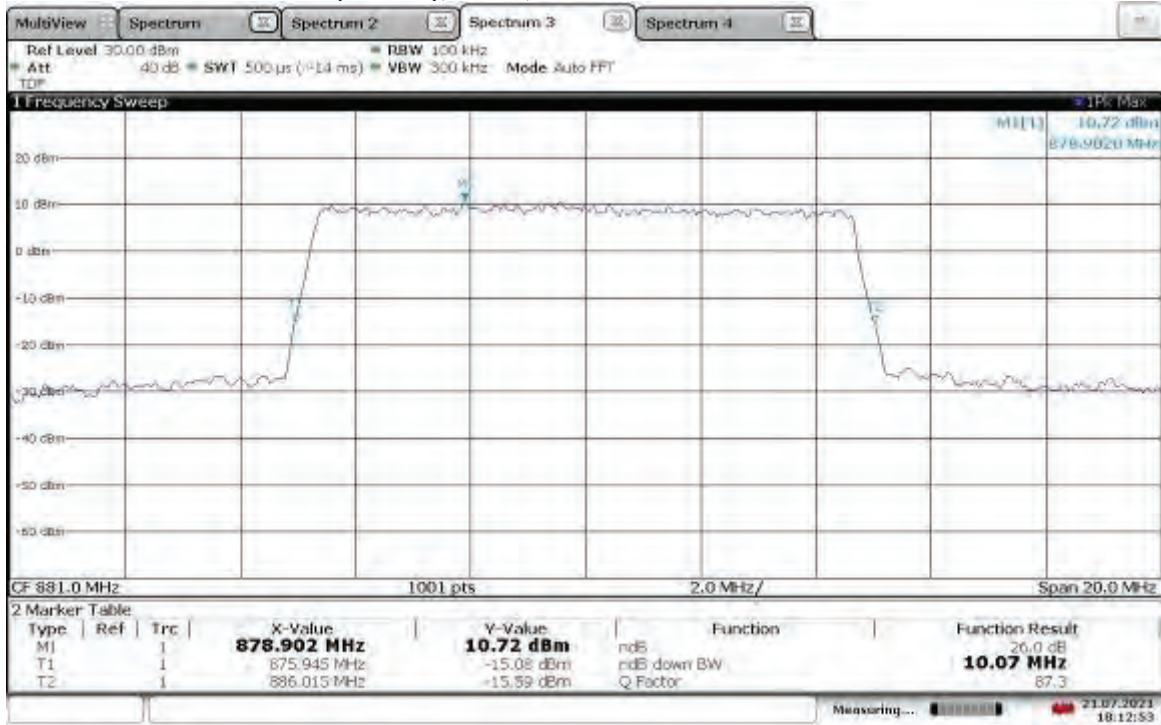
18:09:33 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth



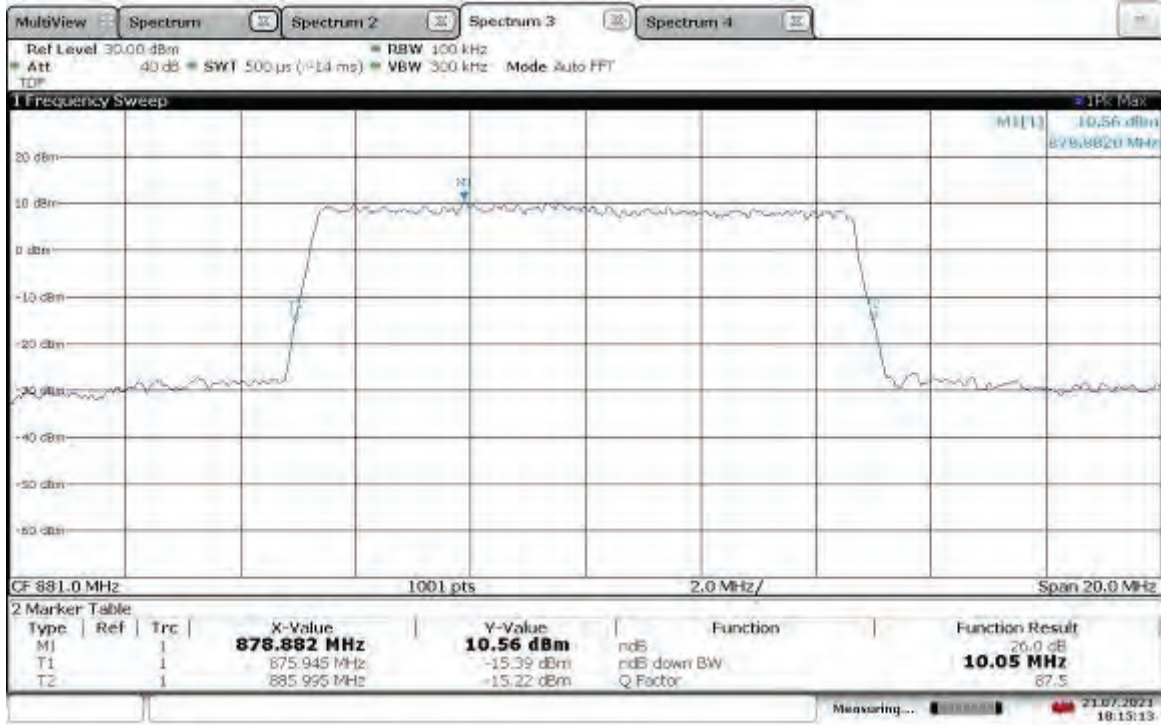
18:07:10 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth



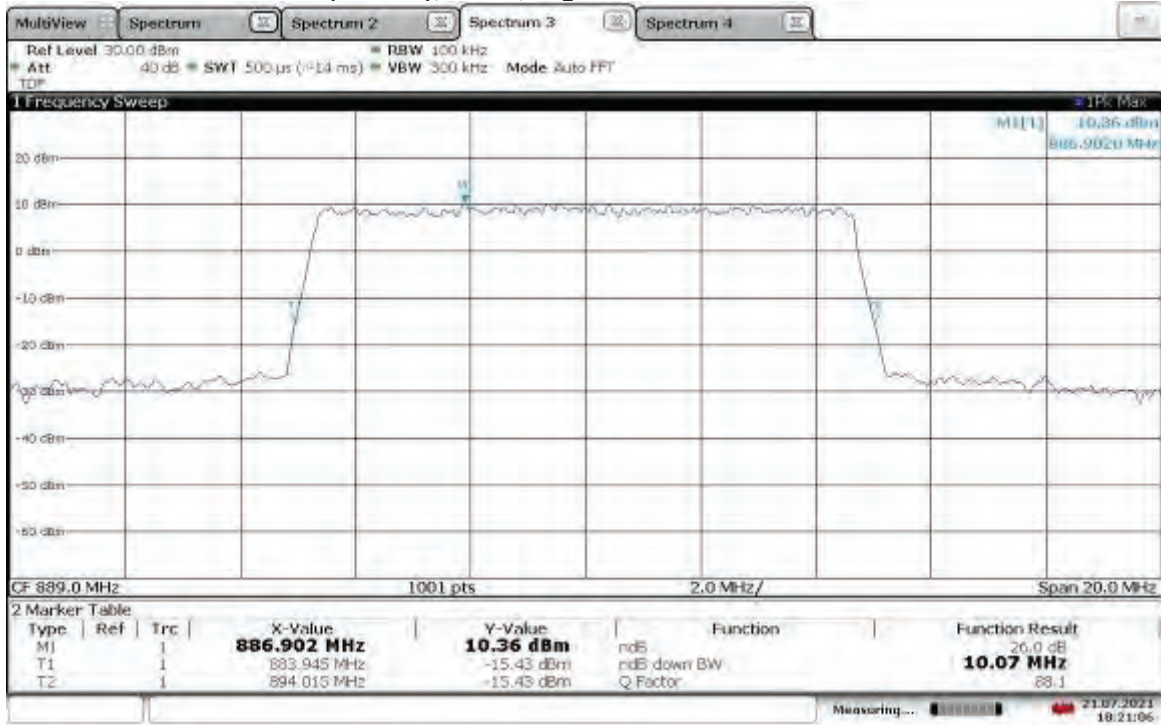
18:12:54 21.07.2021

TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth



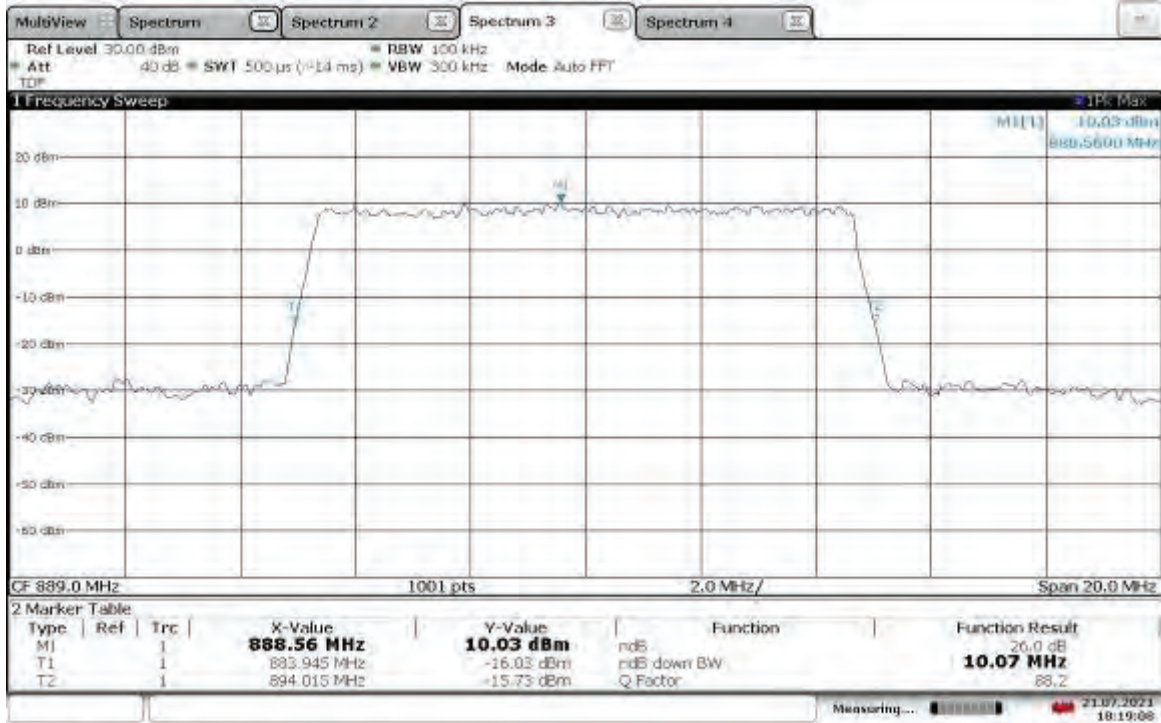
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TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 26dB Bandwidth



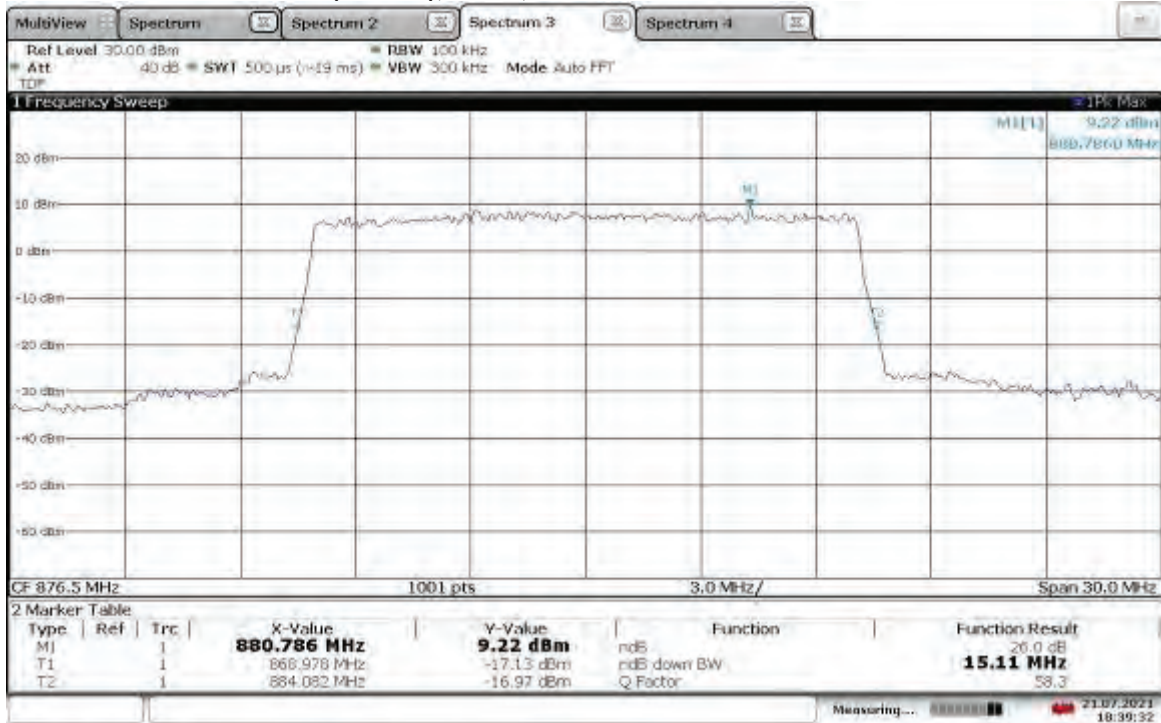
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TM1.1-QPSK\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 26dB Bandwidth



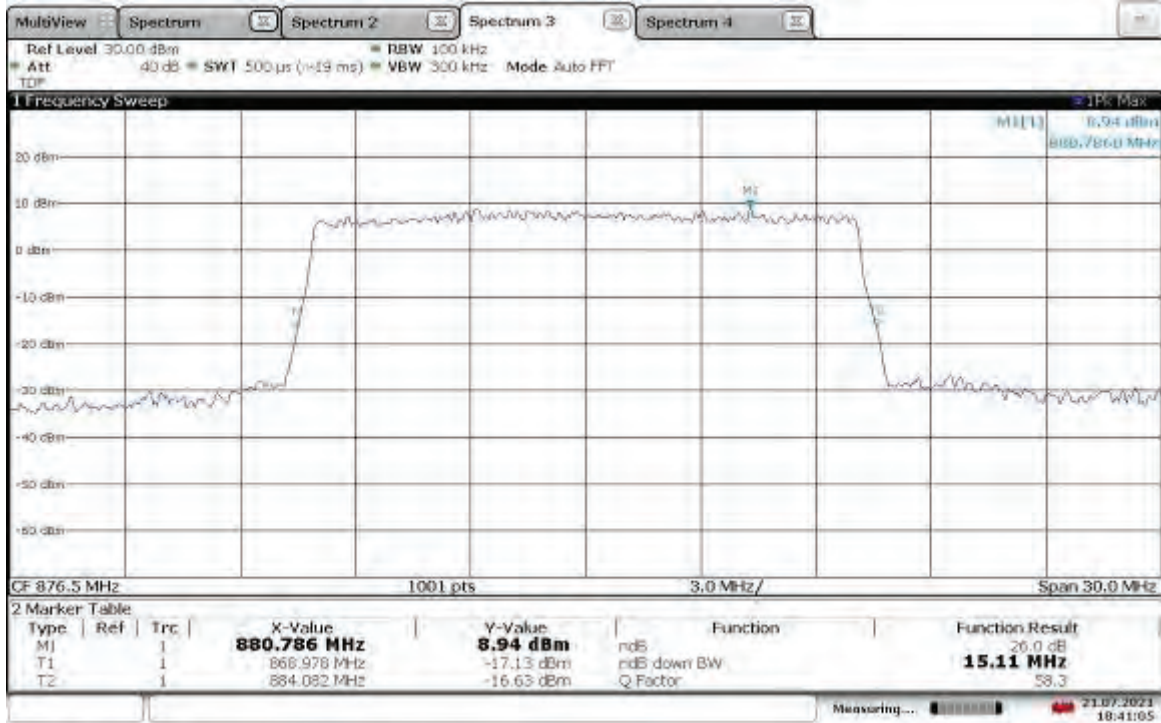
18:19:09 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth



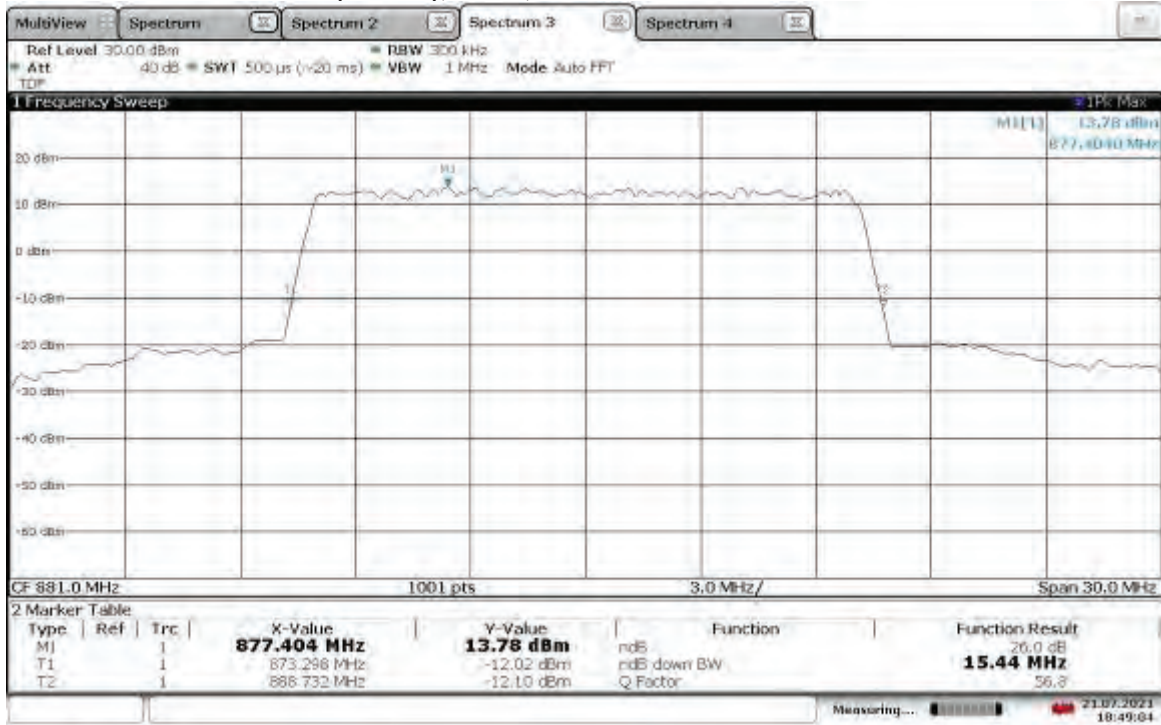
18:39:33 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth



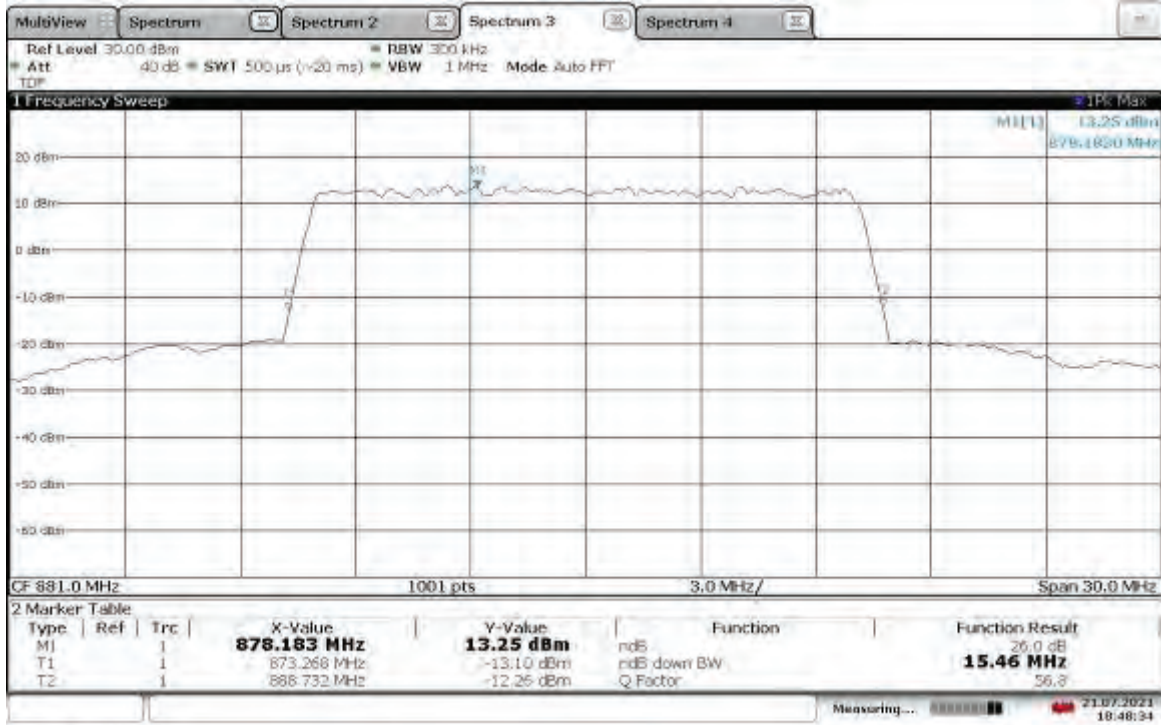
18:41:05 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth



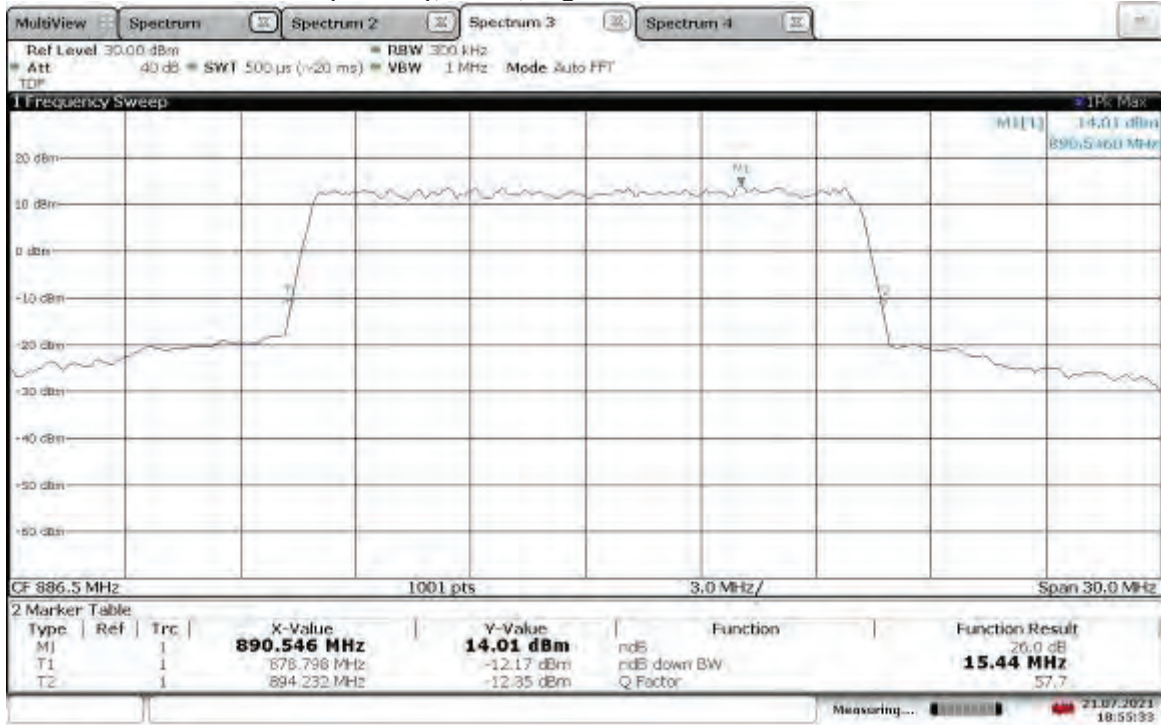
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TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth



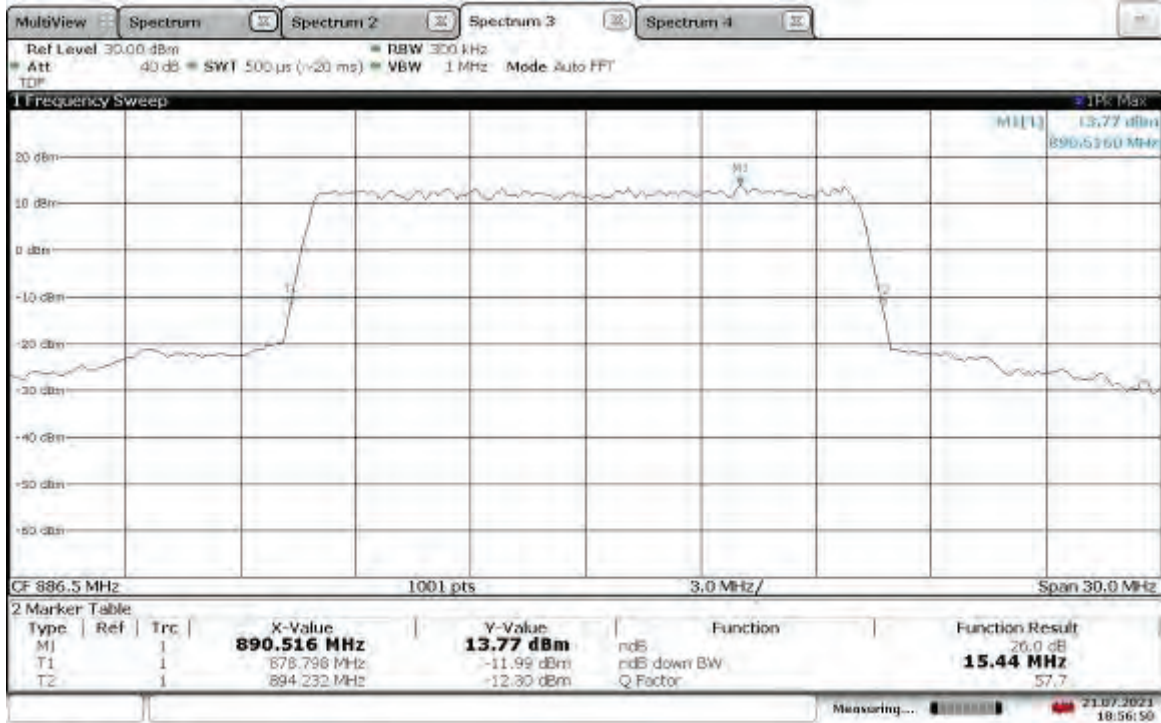
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TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 26dB Bandwidth



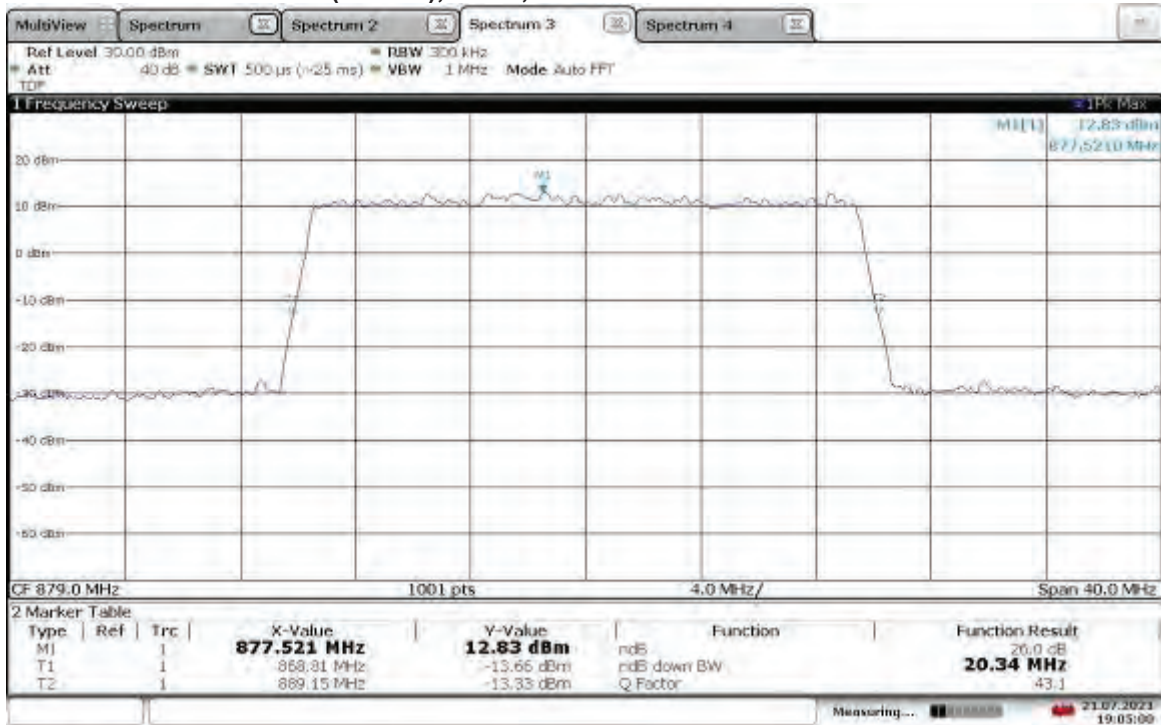
18:55:33 21.07.2021

TM1.1-QPSK\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 26dB Bandwidth



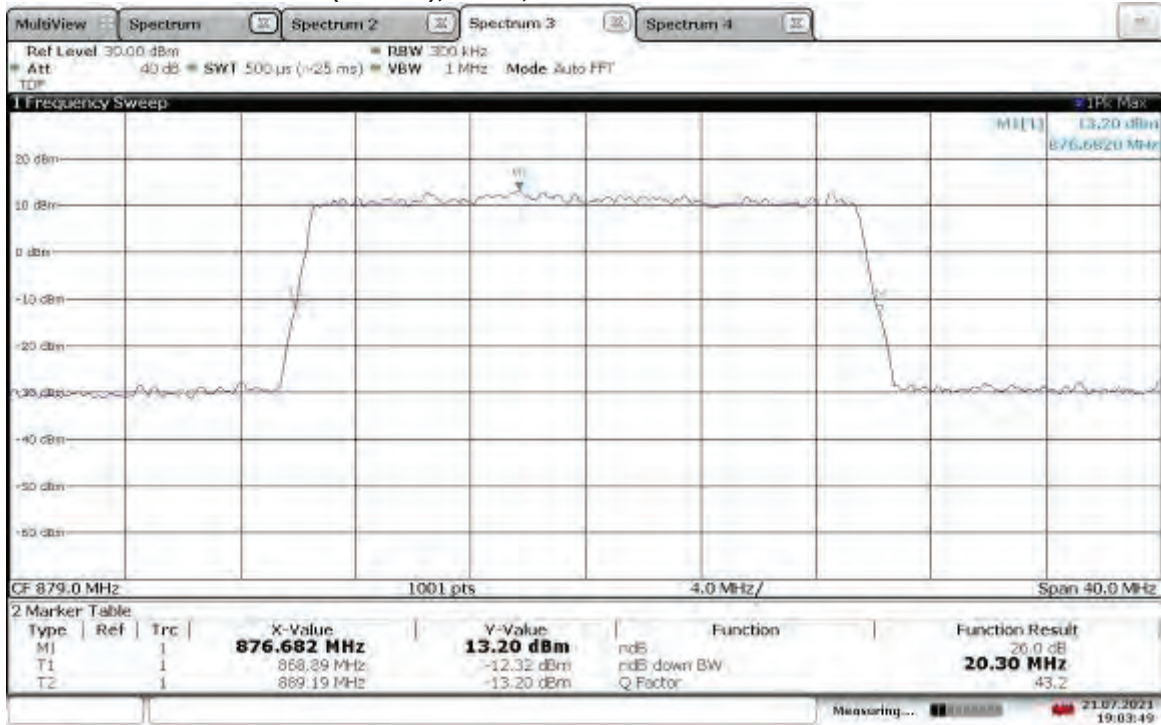
18:56:50 21.07.2021

TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth



19:05:01 21.07.2021

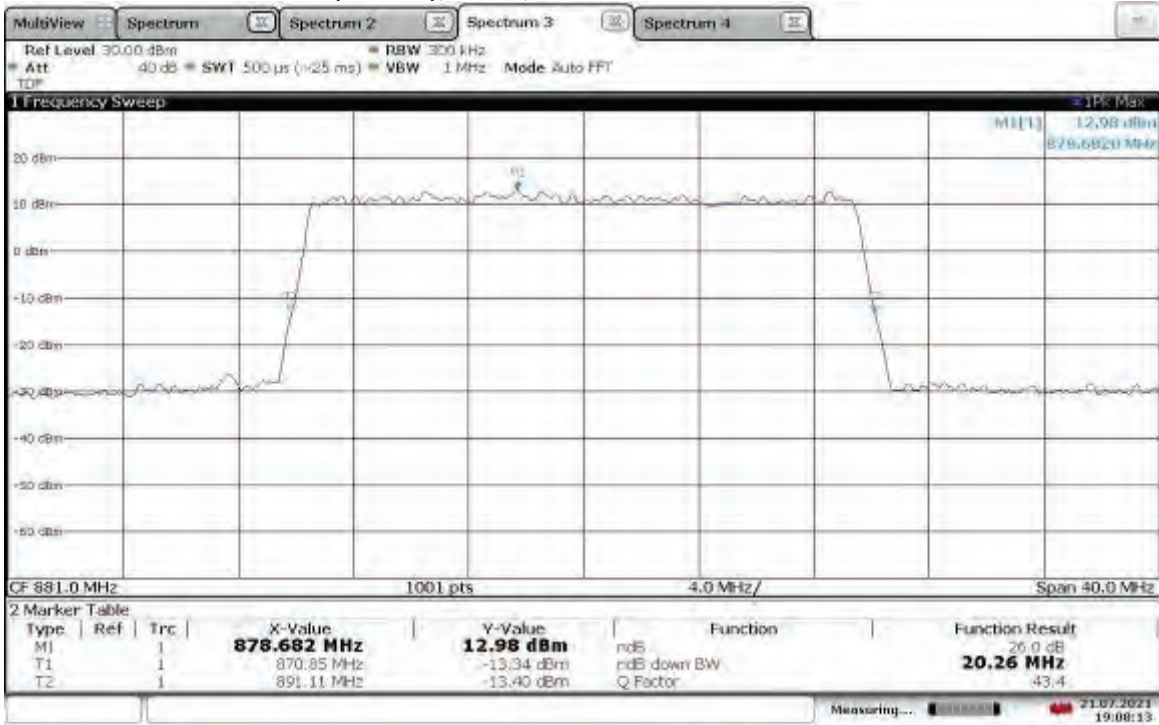
TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth



19:03:50 21.07.2021

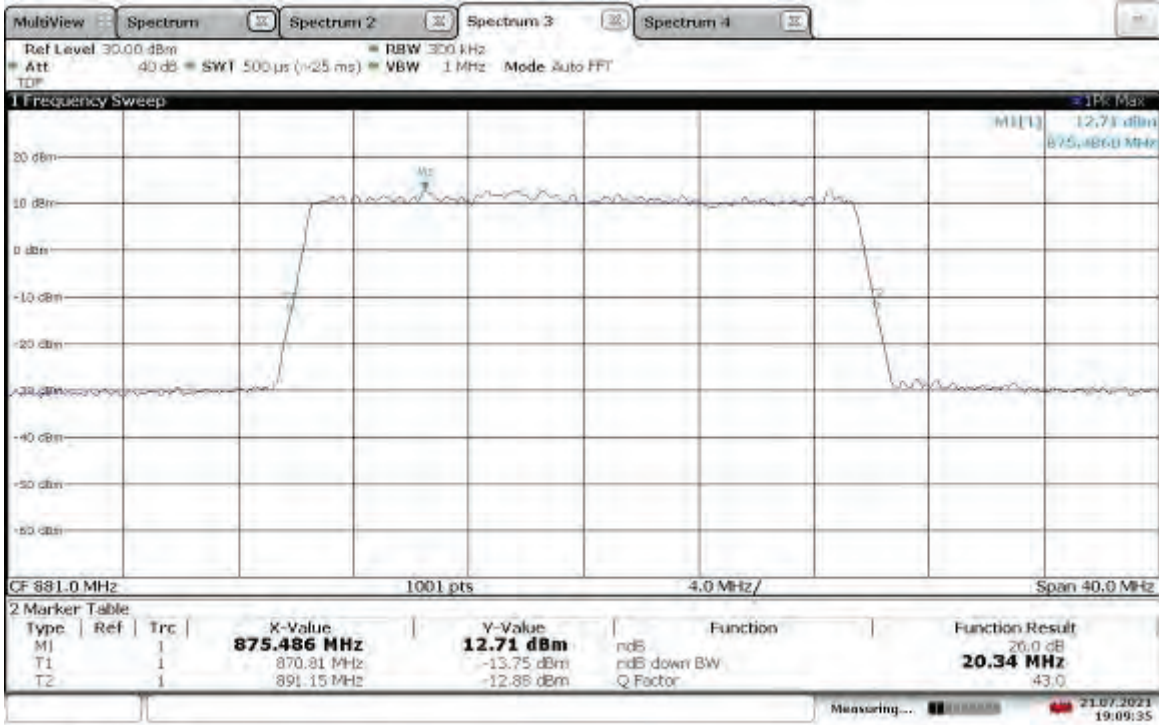


TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth



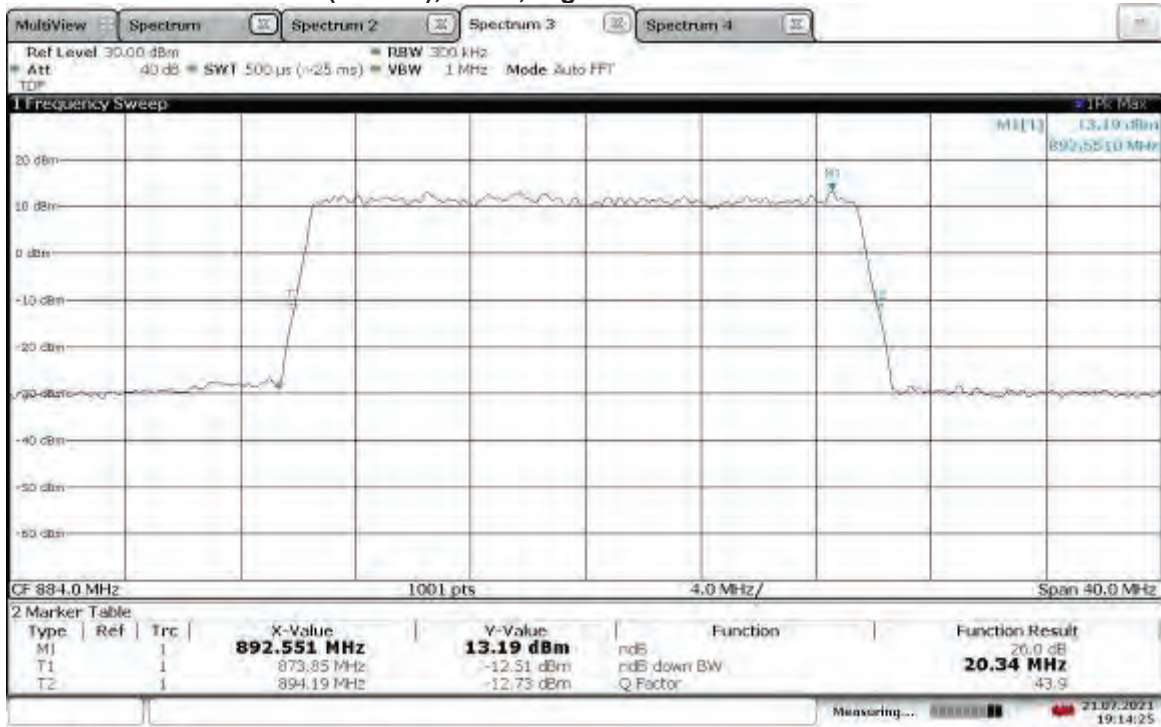
19:08:13 21.07.2021

TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth



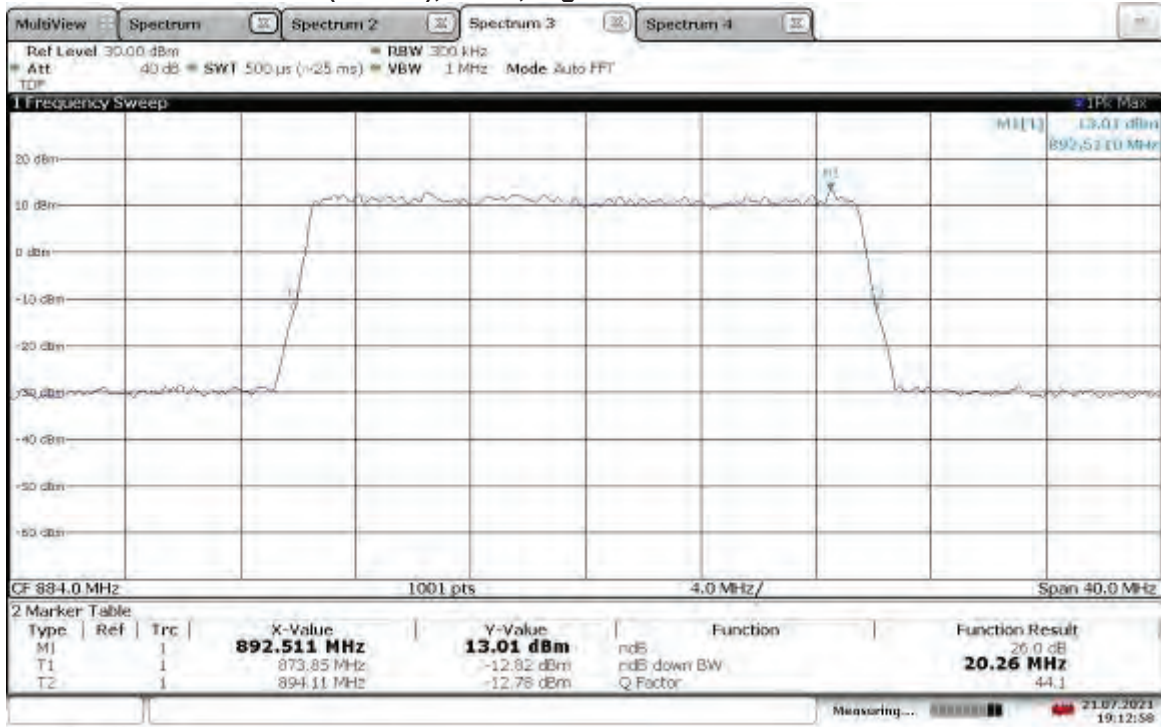
19:09:35 21.07.2021

TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 26dB Bandwidth



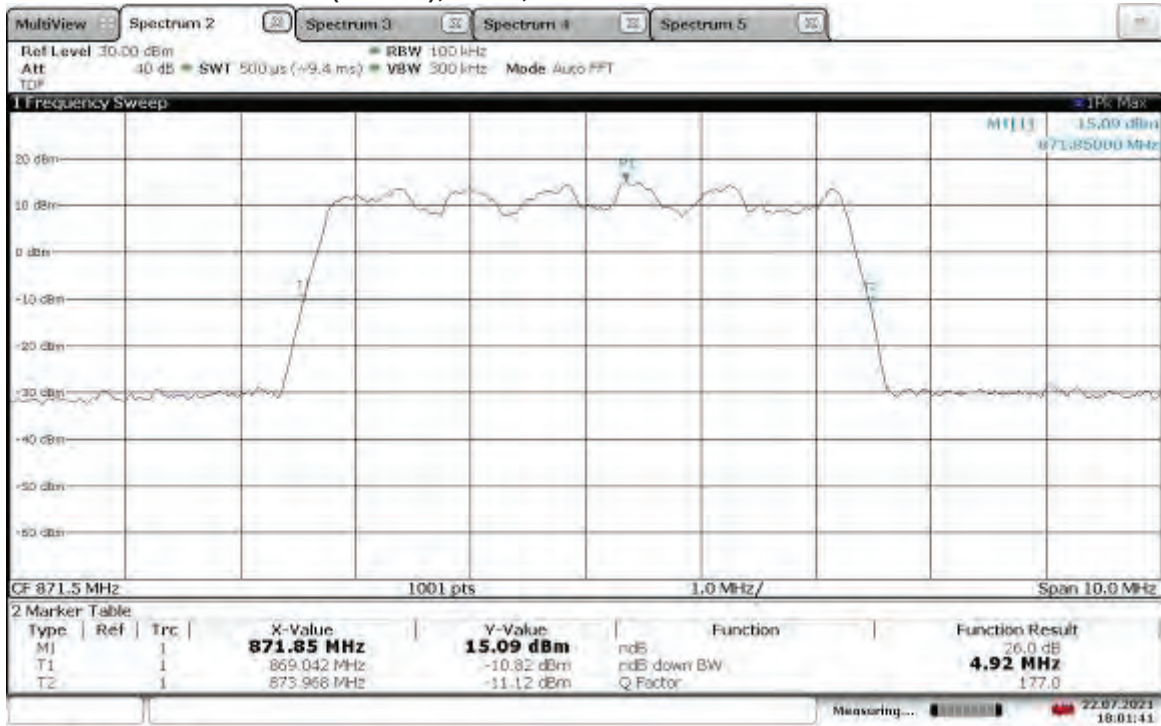
19:14:26 21.07.2021

TM1.1-QPSK\_20 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 26dB Bandwidth



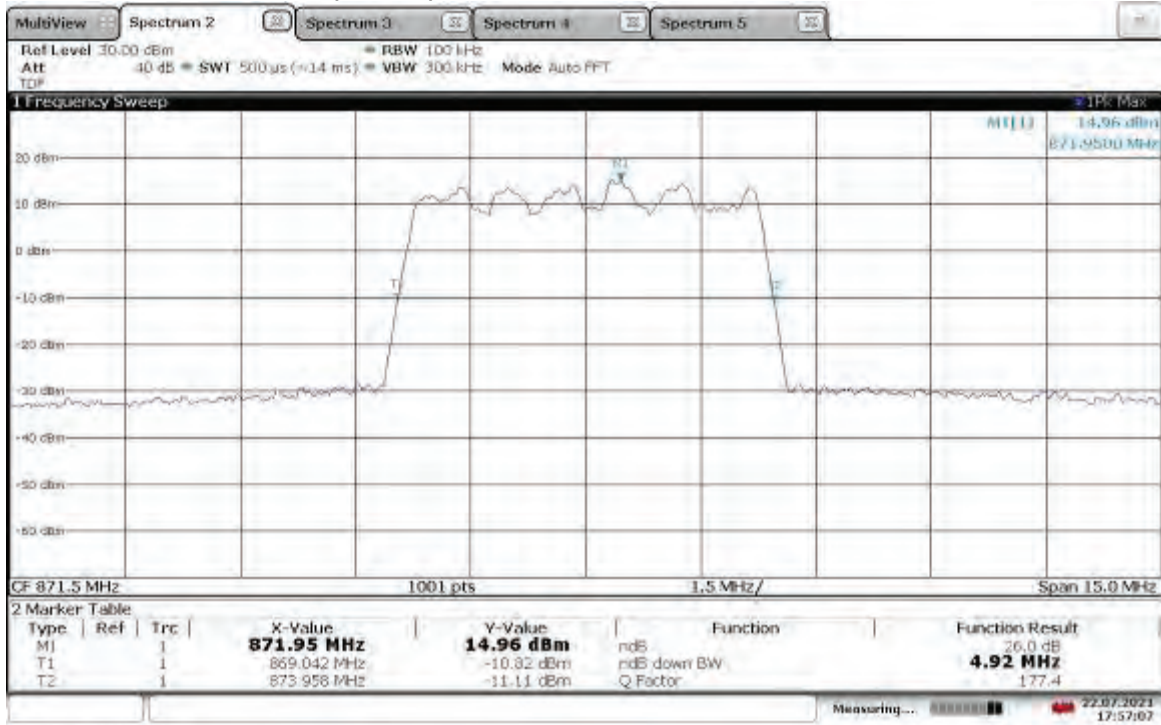
19:12:59 21.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth



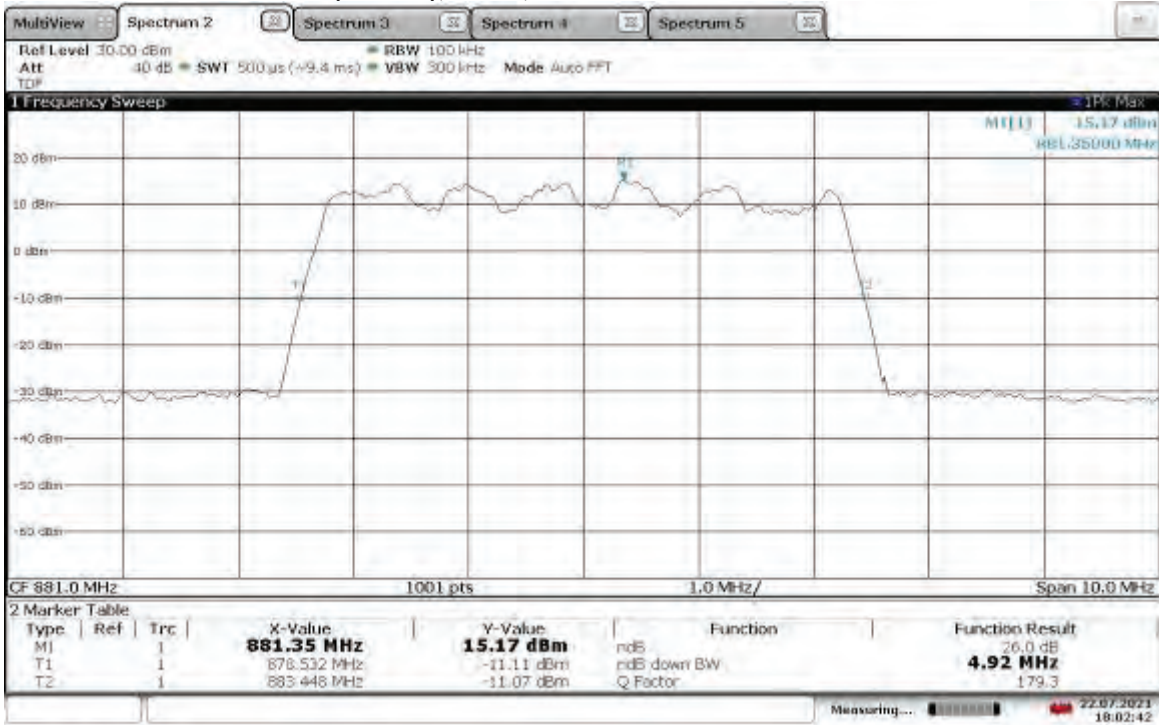
18:01:41 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth



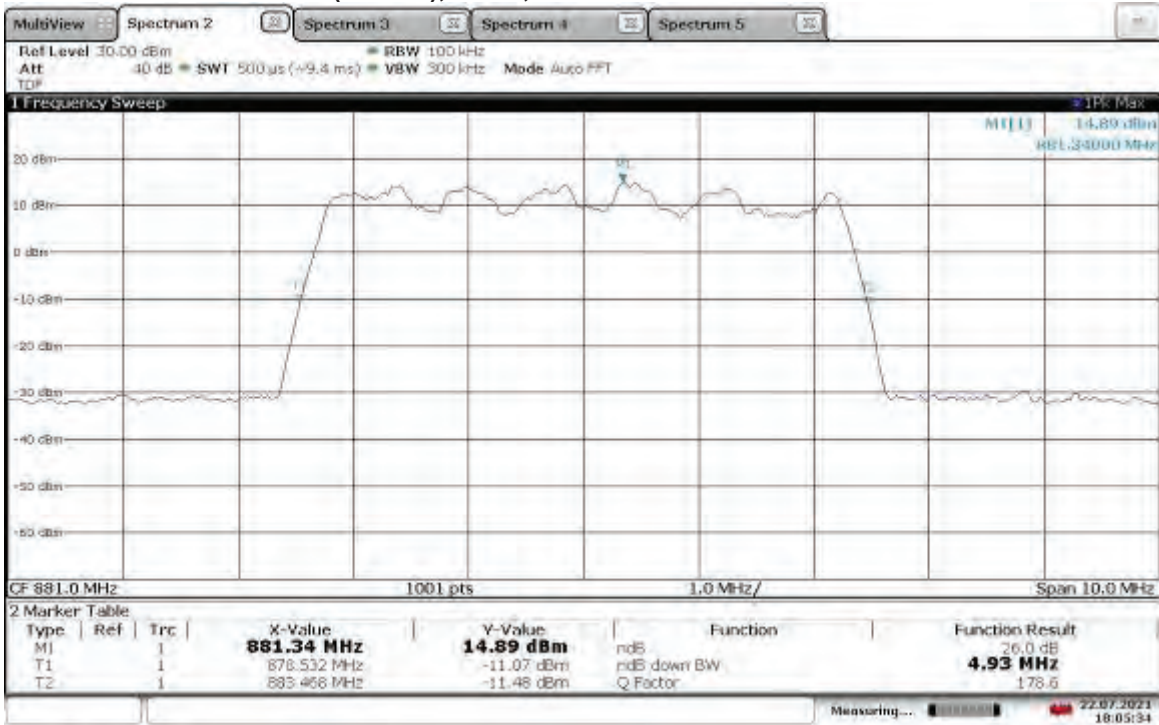
17:57:07 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth



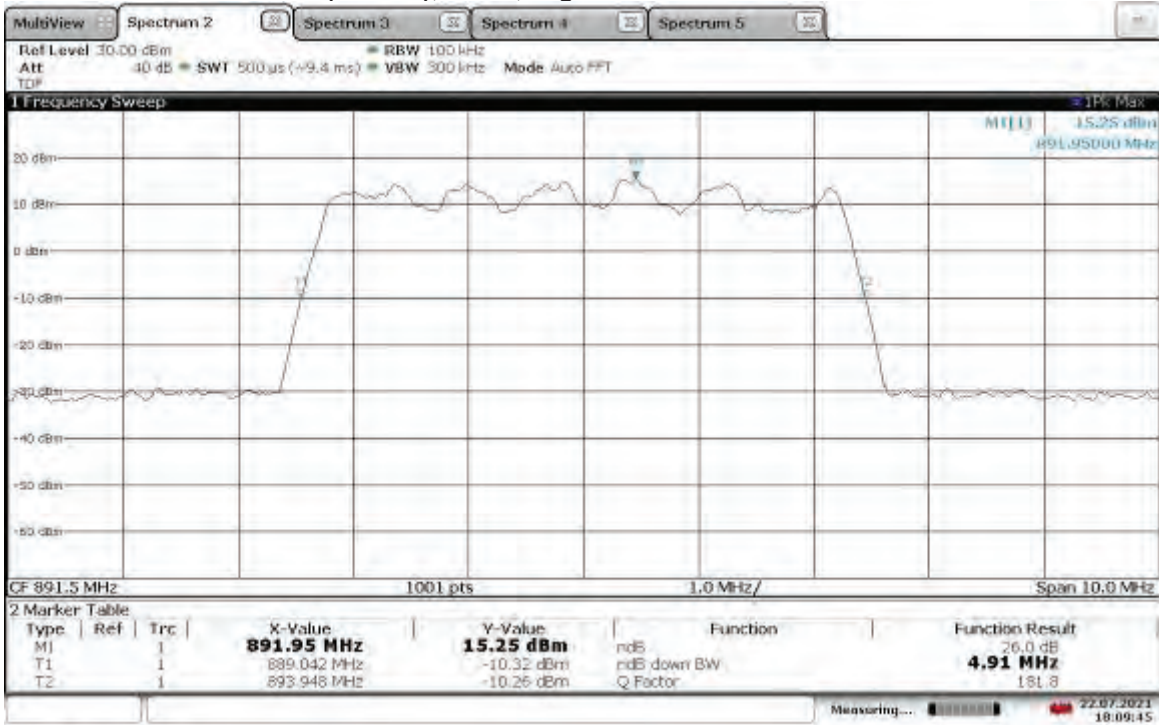
18:02:42 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth



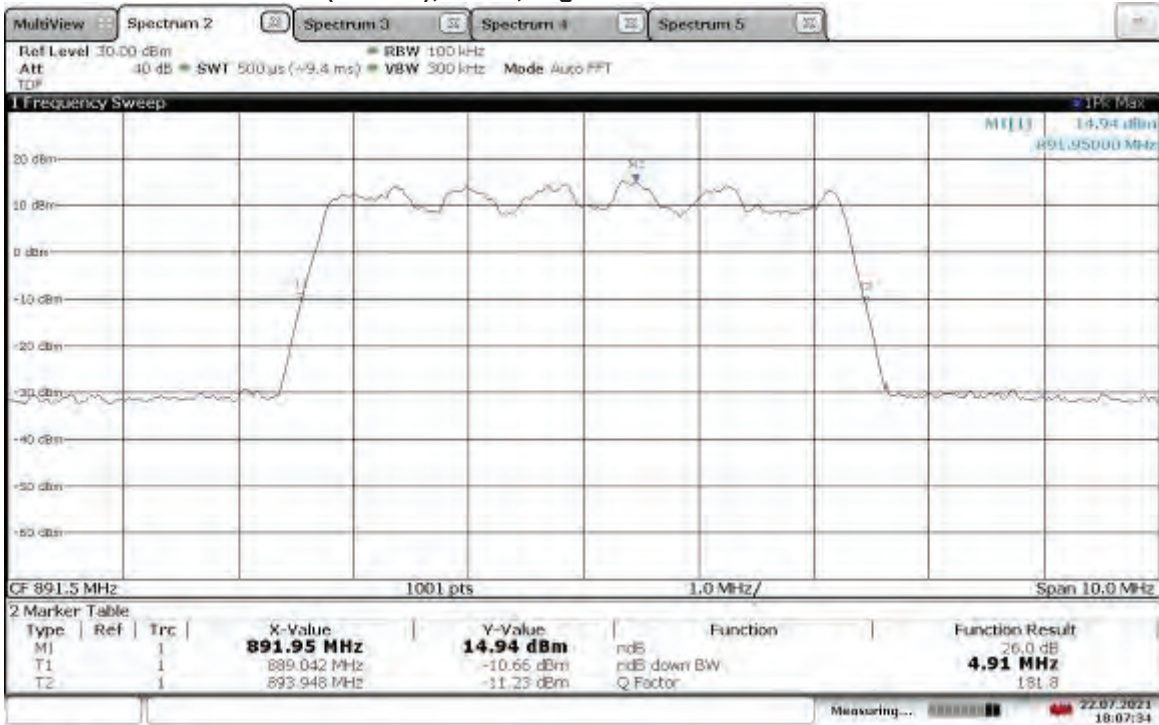
18:05:34 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 26dB Bandwidth



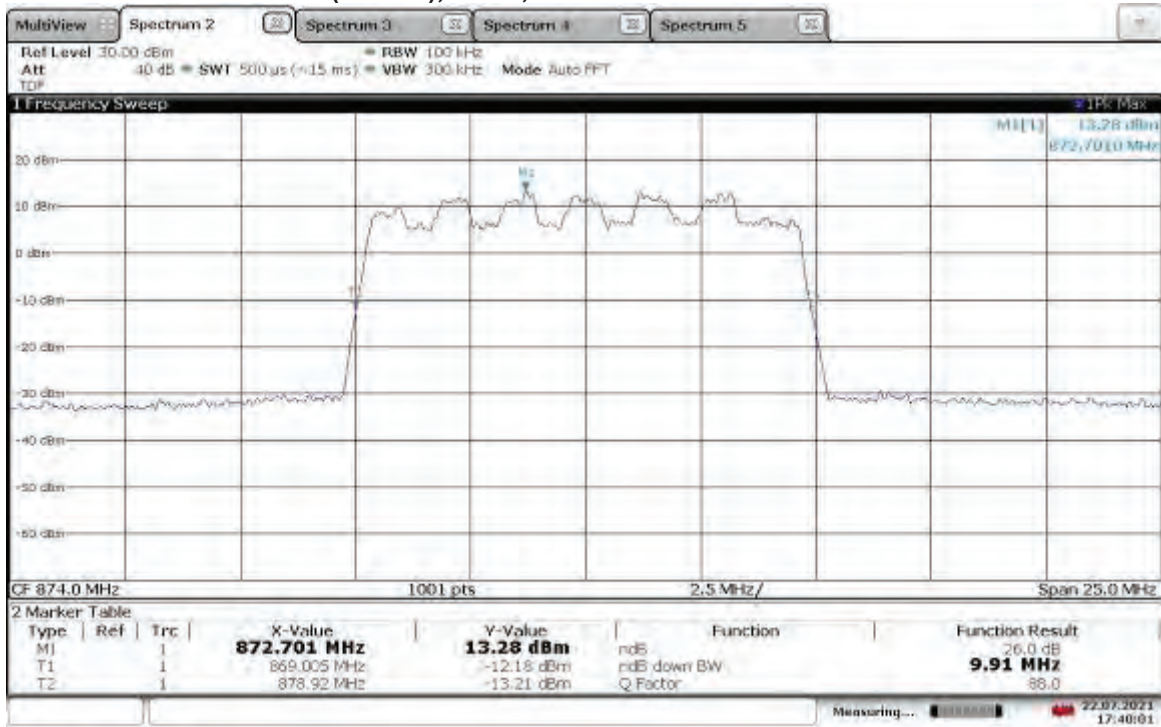
18:09:45 22.07.2021

TM3.2-16QAM\_5 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 26dB Bandwidth



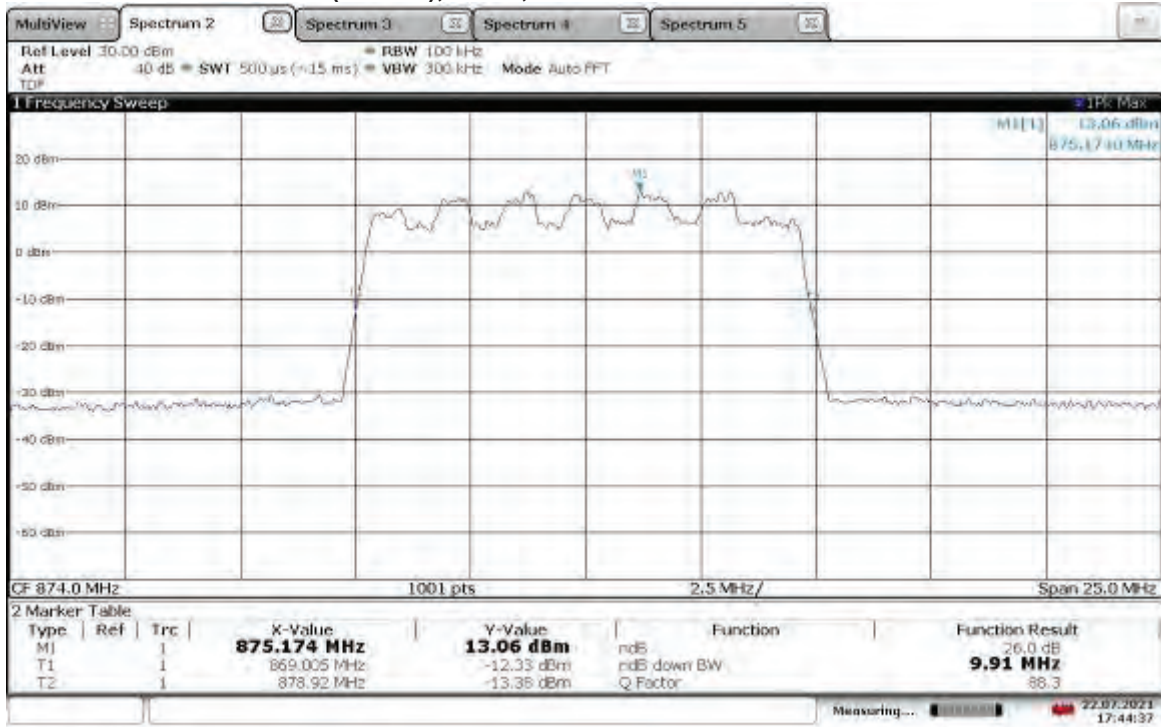
18:07:34 22.07.2021

TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth



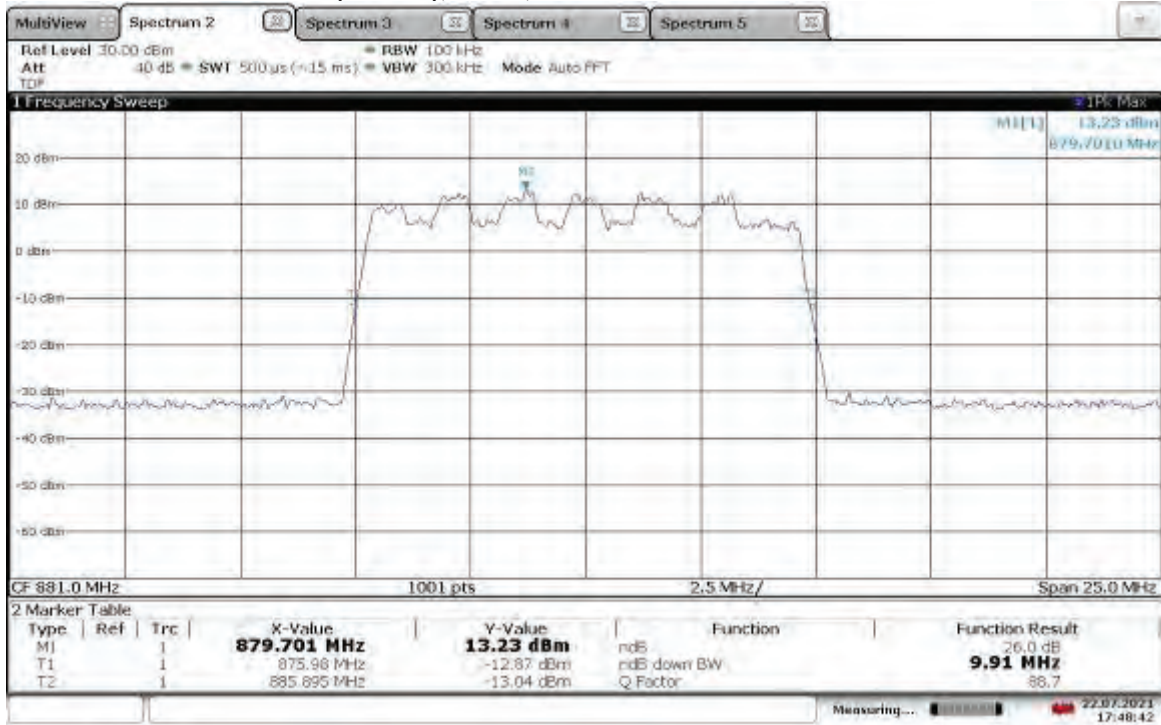
17:40:02 22.07.2021

TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth



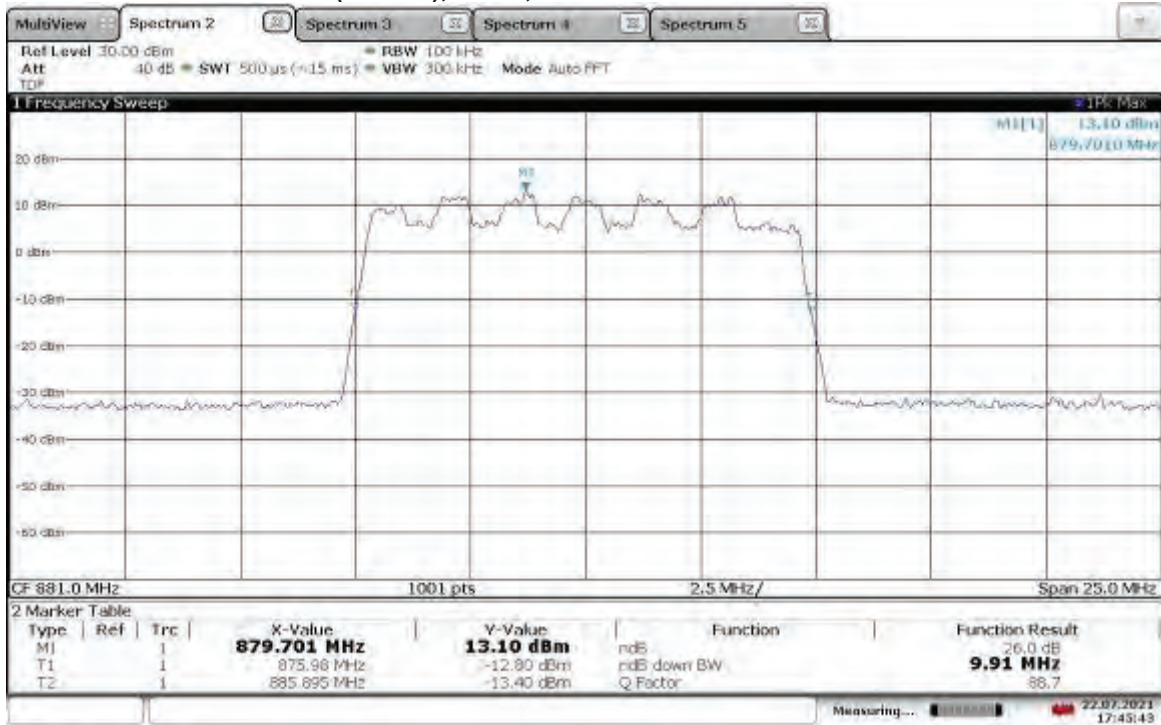
17:44:37 22.07.2021

TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth



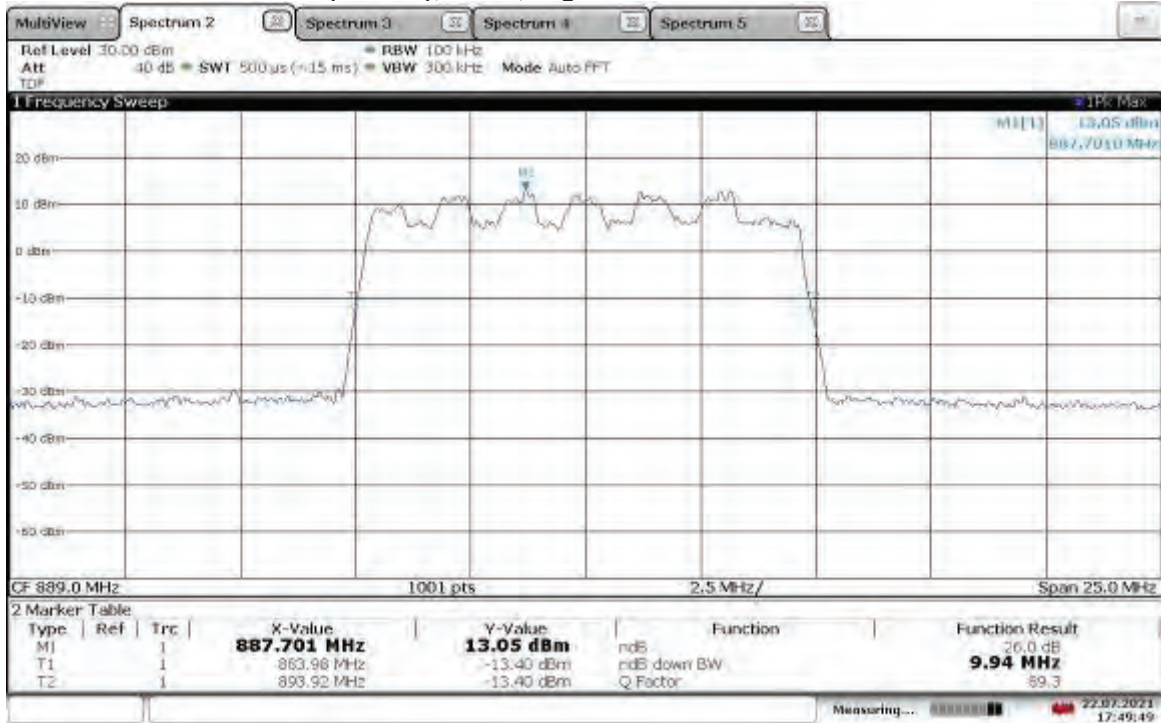
17:48:43 22.07.2021

TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth



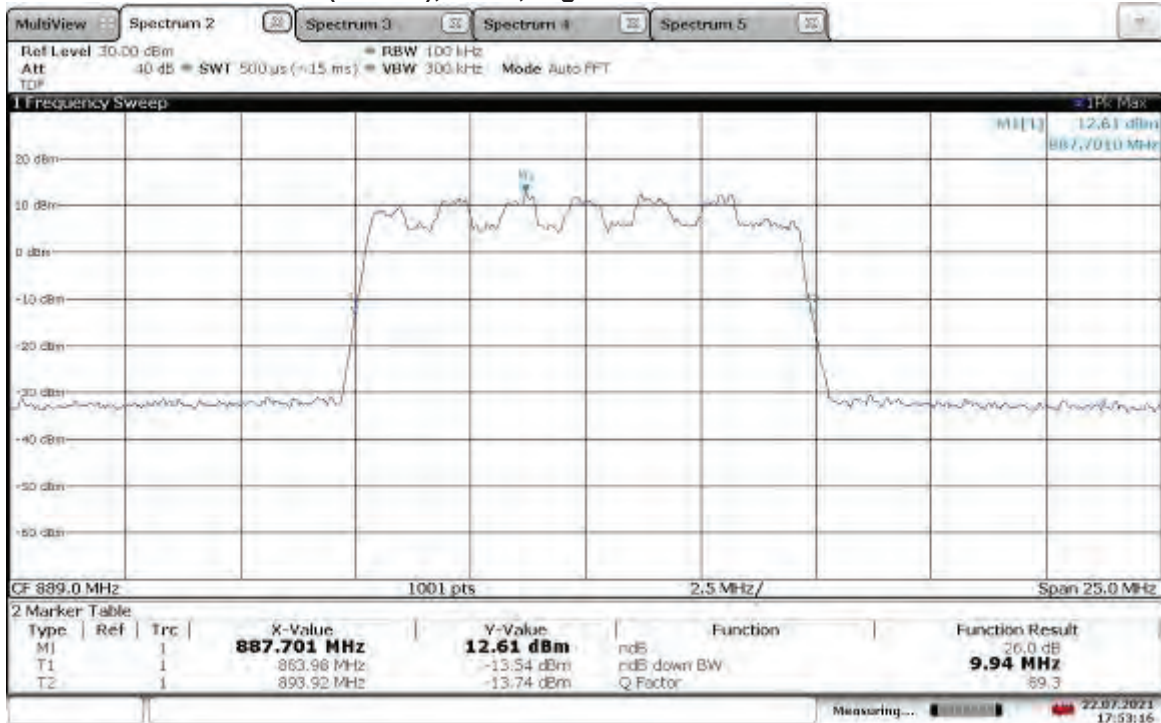
17:45:43 22.07.2021

TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT0, High Channel 26dB Bandwidth



17:49:49 22.07.2021

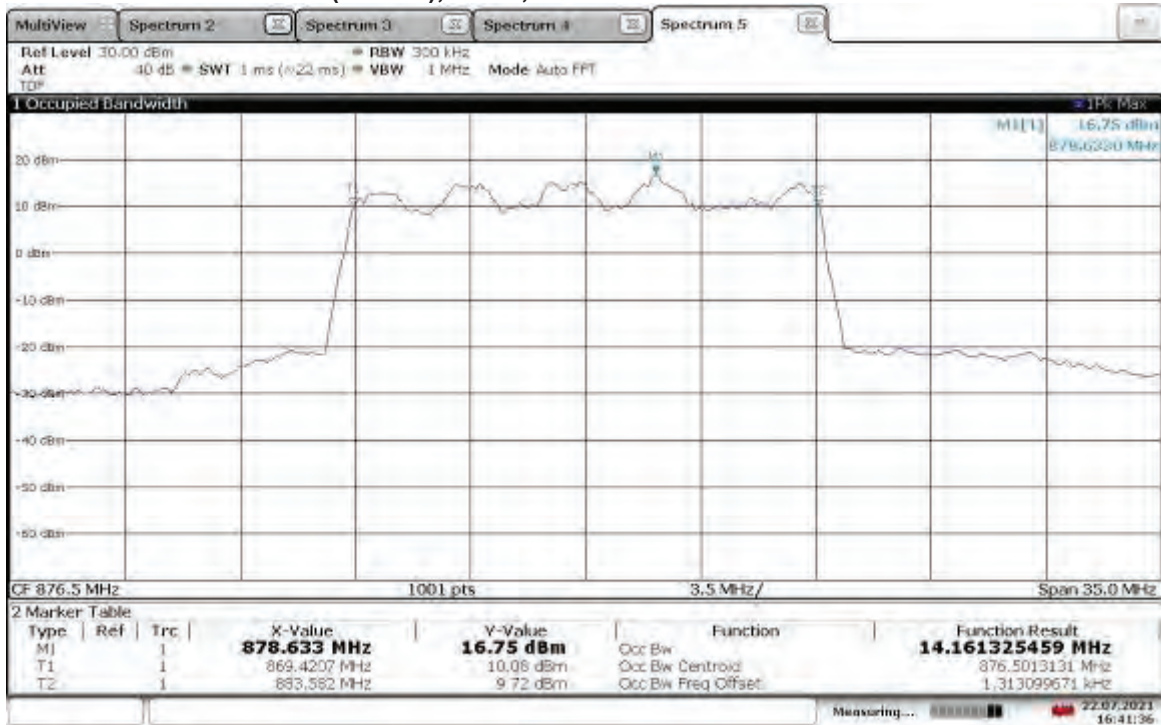
TM3.2-16QAM\_10 MHz Bandwidth  
Slot 0 (Band 5), ANT1, High Channel 26dB Bandwidth



17:53:17 22.07.2021

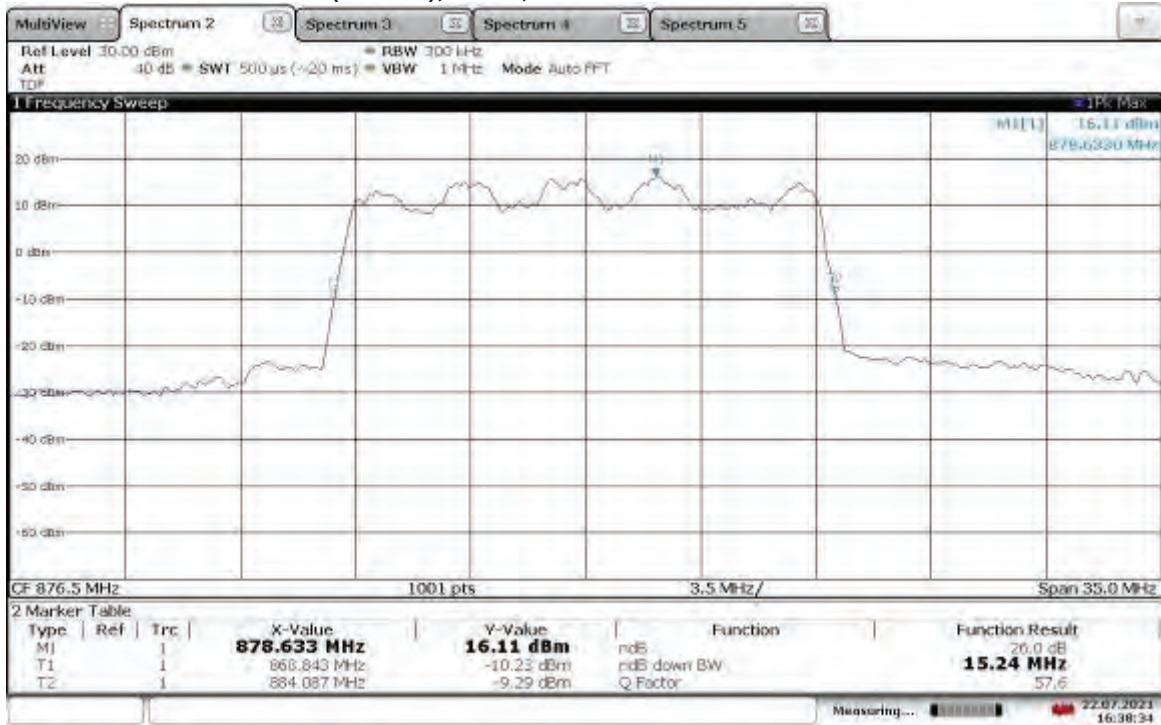


**TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Low Channel 26dB Bandwidth**



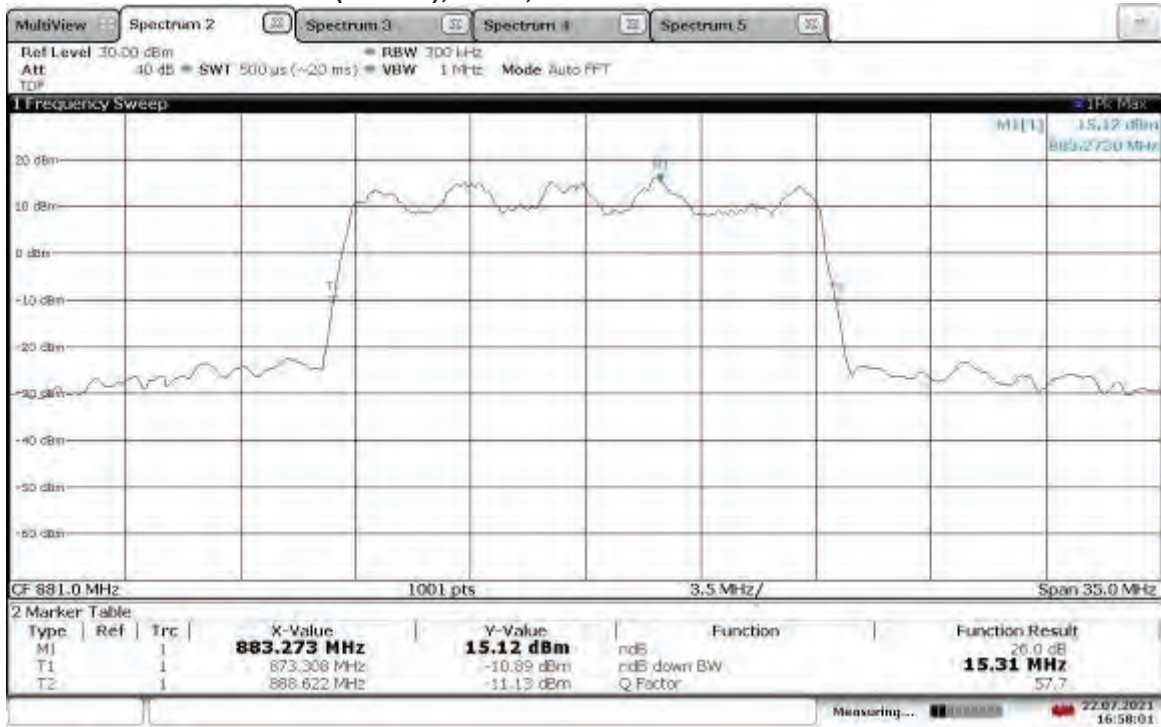
16:41:37 22.07.2021

**TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Low Channel 26dB Bandwidth**



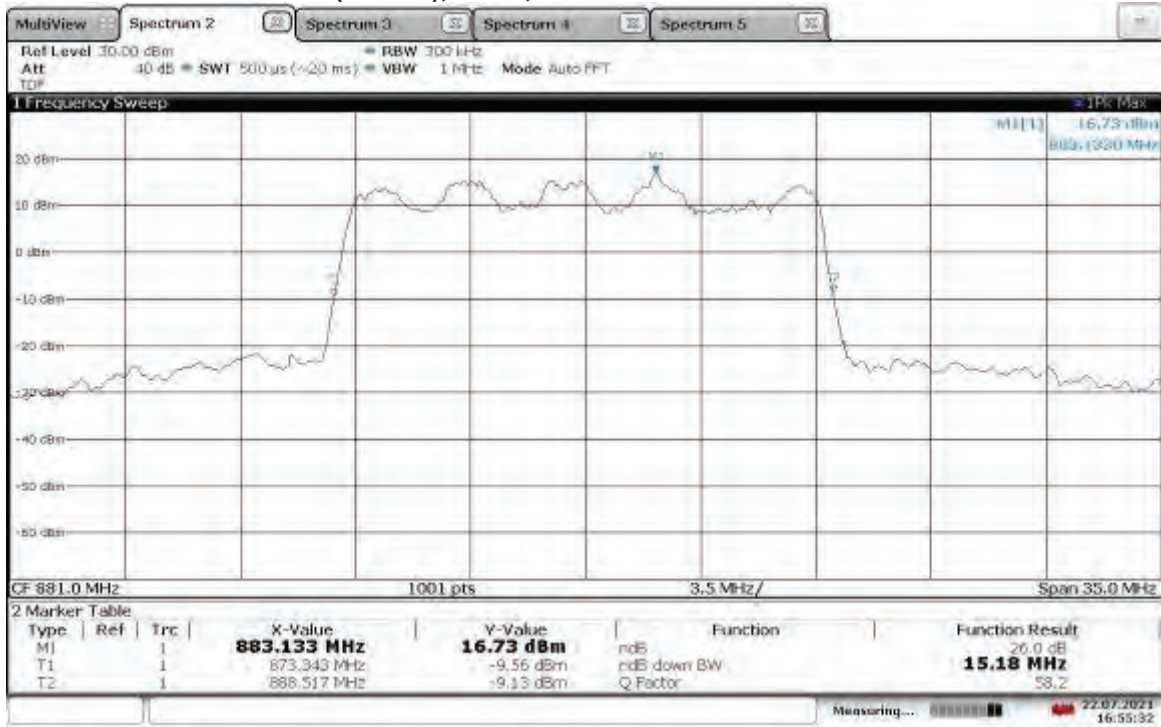
16:38:35 22.07.2021

**TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT0, Mid Channel 26dB Bandwidth**



16:58:01 22.07.2021

**TM3.2-16QAM\_15 MHz Bandwidth  
Slot 0 (Band 5), ANT1, Mid Channel 26dB Bandwidth**



16:55:33 22.07.2021