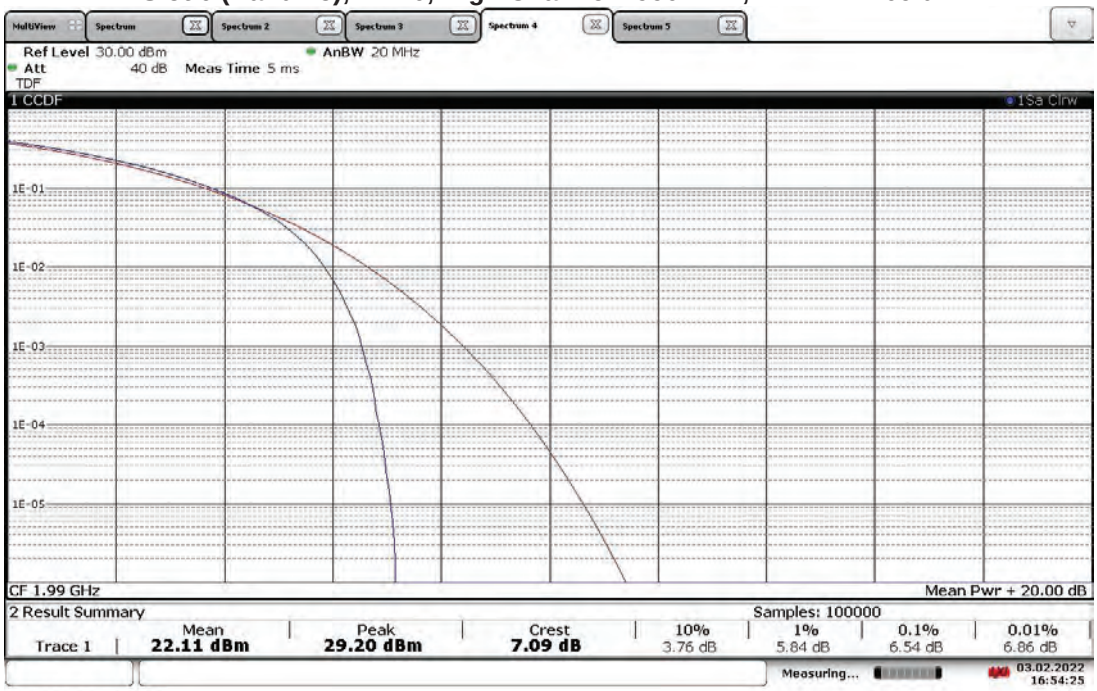
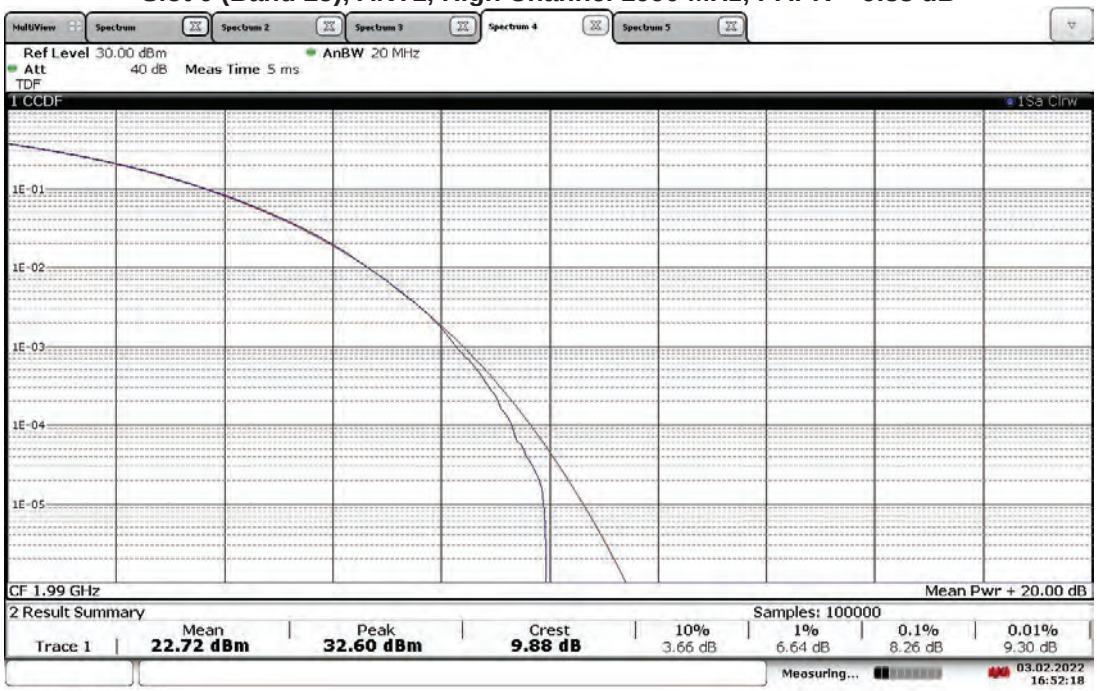
TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1990 MHz, PAPR = 7.09 dB



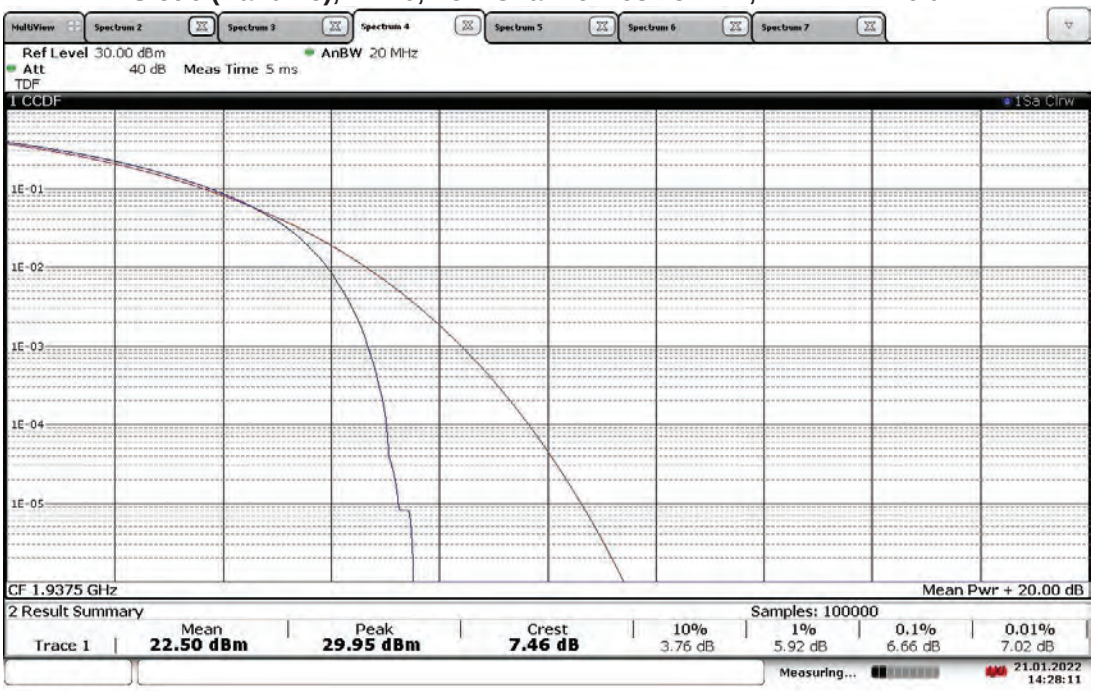
16:54:25 03.02.2022

V TM3.1-64QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1990 MHz, PAPR = 9.88 dB



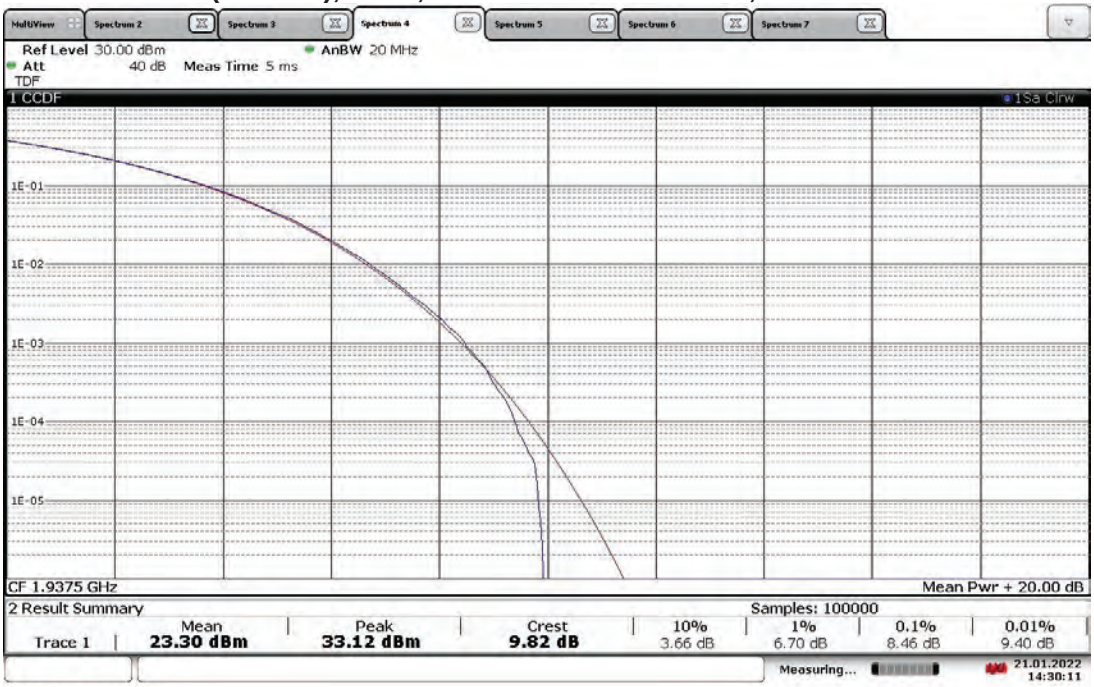
16:52:18 03.02.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Low Channel 1987.5 MHz, PAPR = 7.46 dB



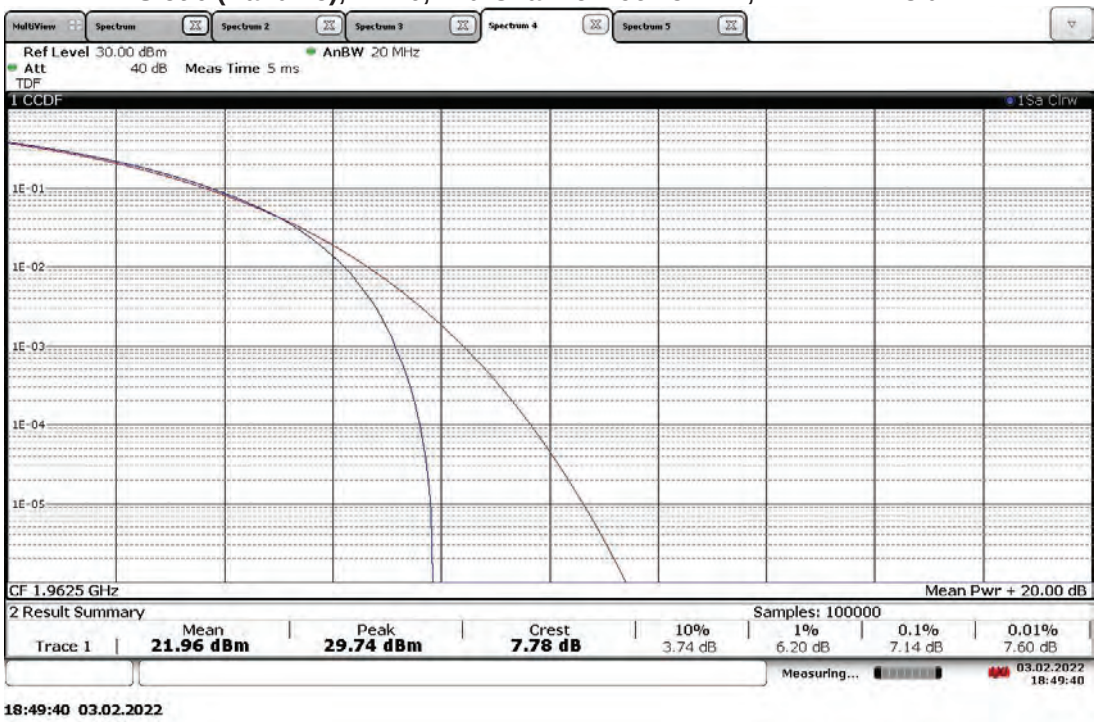
14:28:11 21.01.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Low Channel 1937.5 MHz, PAPR = 9.82 dB



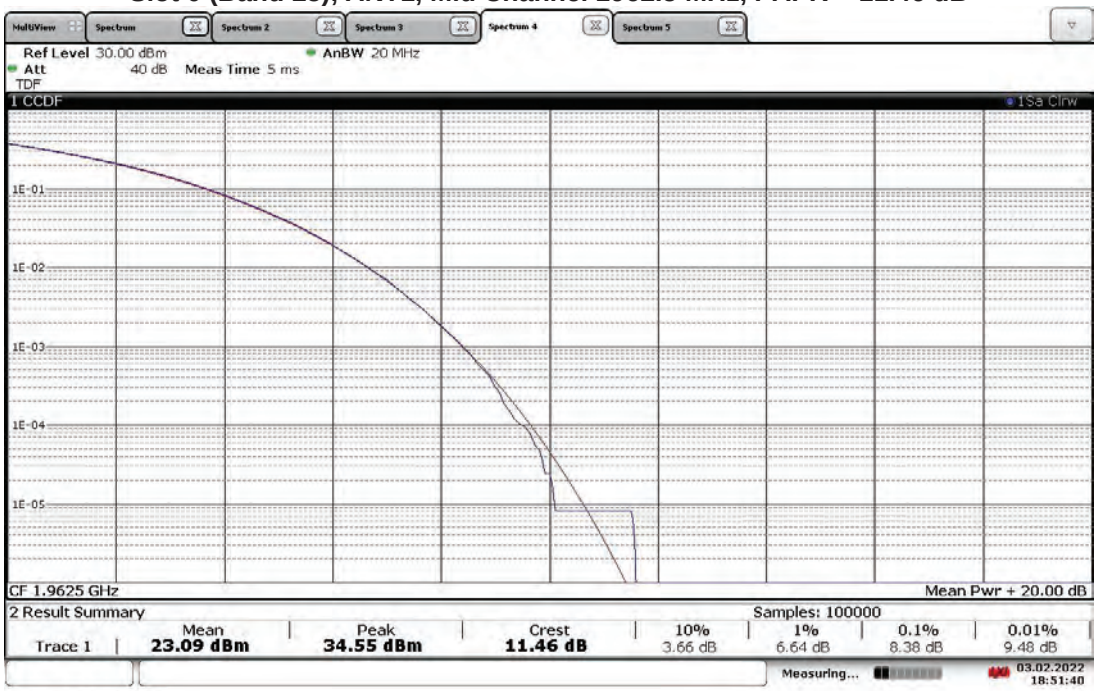
14:30:11 21.01.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Mid Channel 1962.5 MHz, PAPR = 7.78 dB



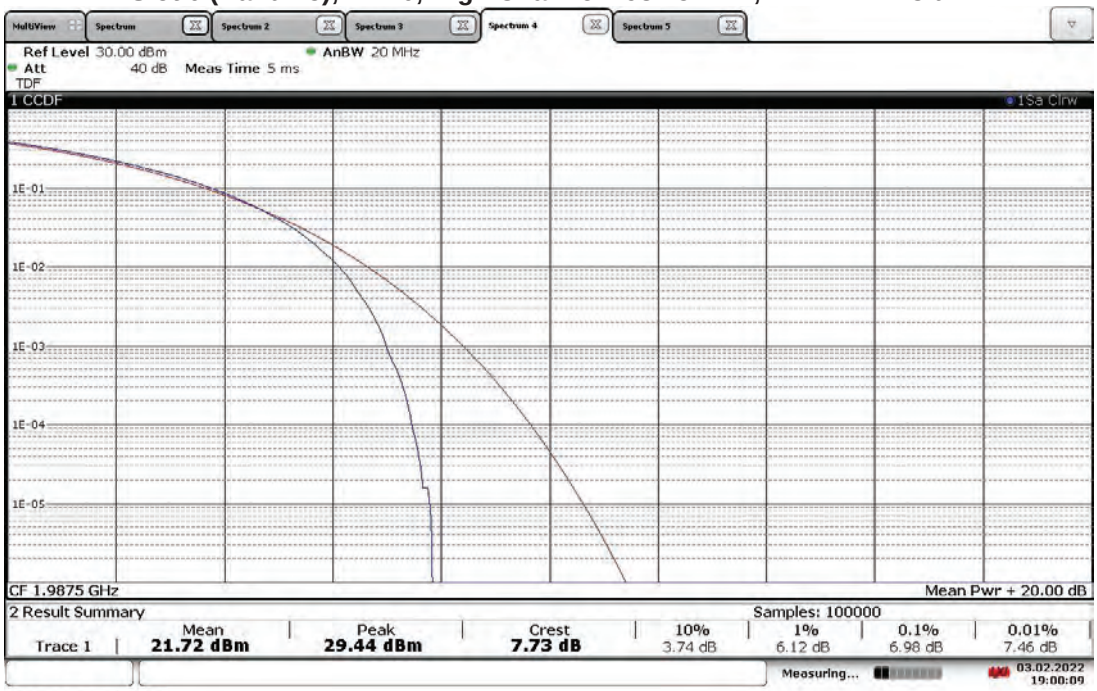
18:49:40 03.02.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Mid Channel 1962.5 MHz, PAPR = 11.46 dB



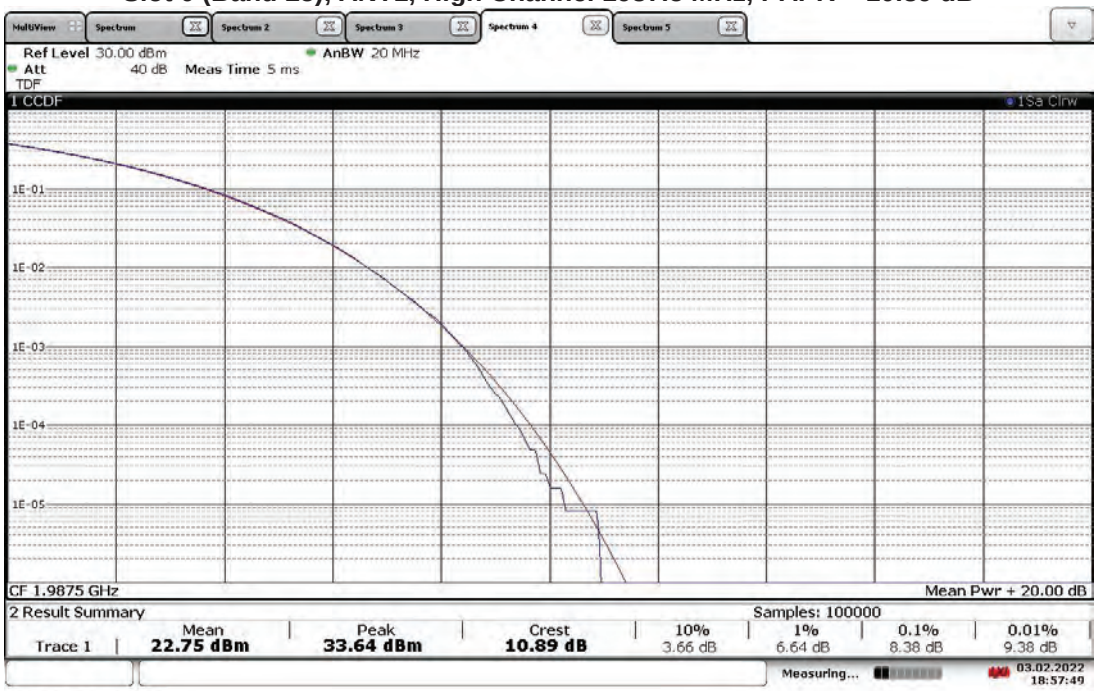
18:51:40 03.02.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1987.5 MHz, PAPR = 7.73 dB



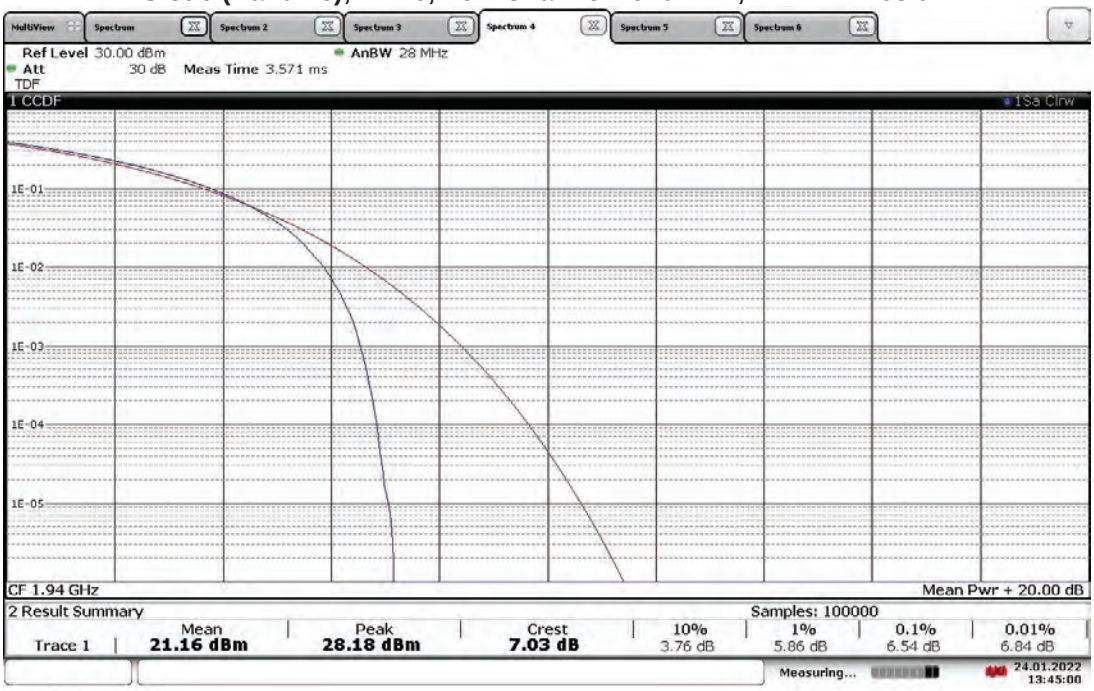
19:00:09 03.02.2022

TM3.1-64QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1987.5 MHz, PAPR = 10.89 dB



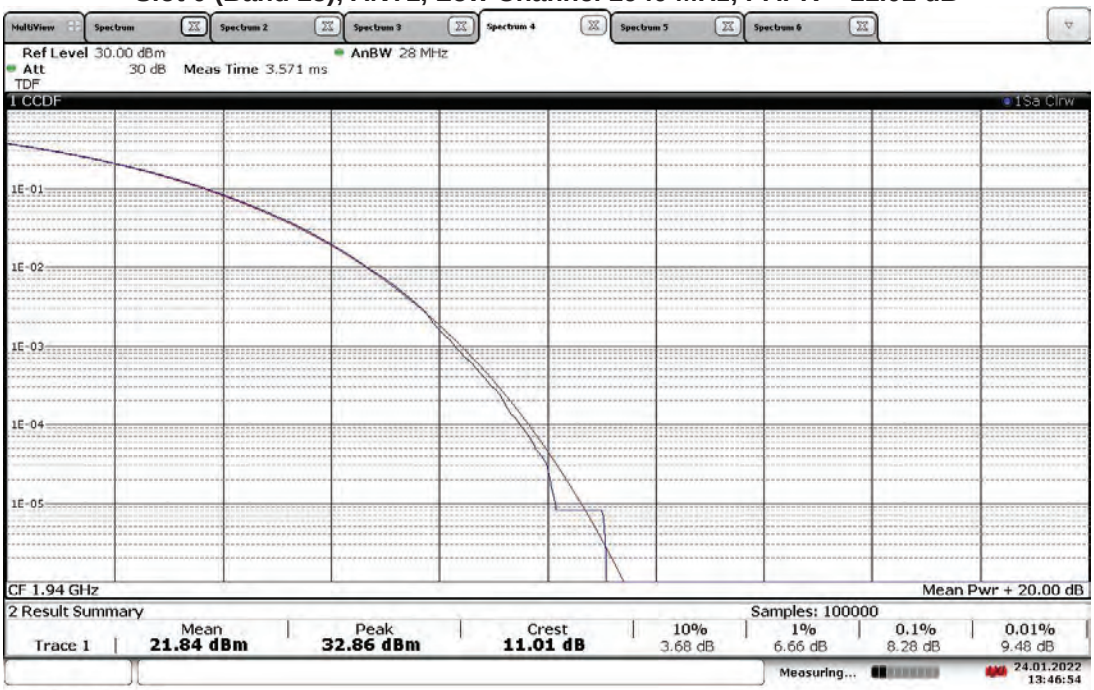
18:57:50 03.02.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Low Channel 1940 MHz, PAPR = 7.03 dB



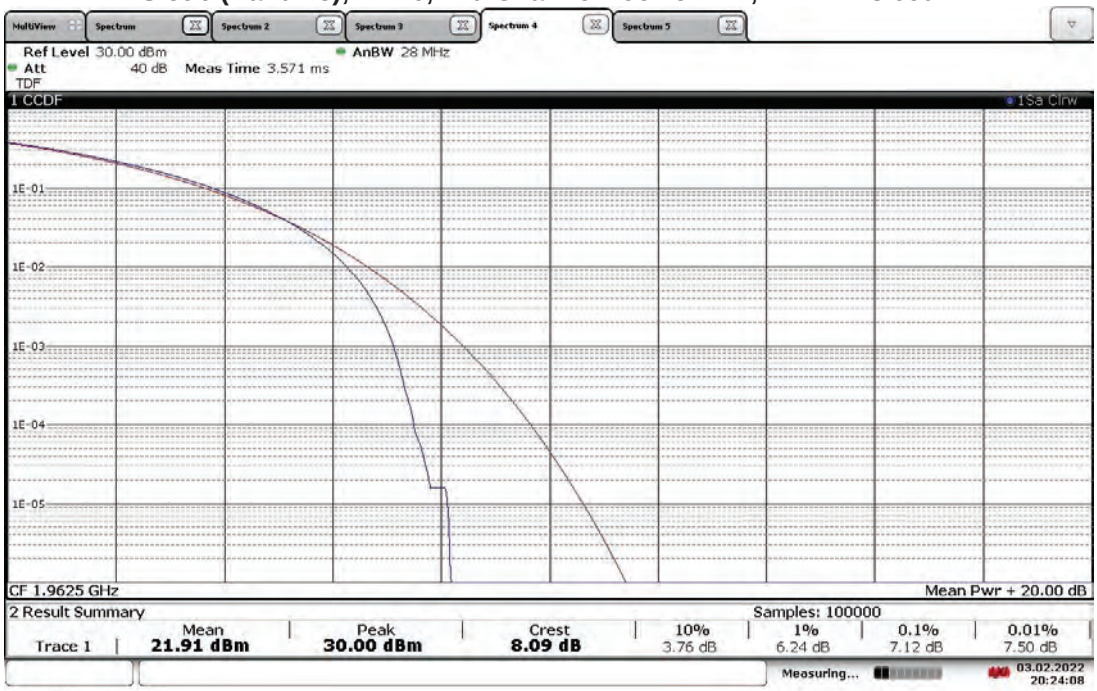
13:45:00 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Low Channel 1940 MHz, PAPR = 11.01 dB



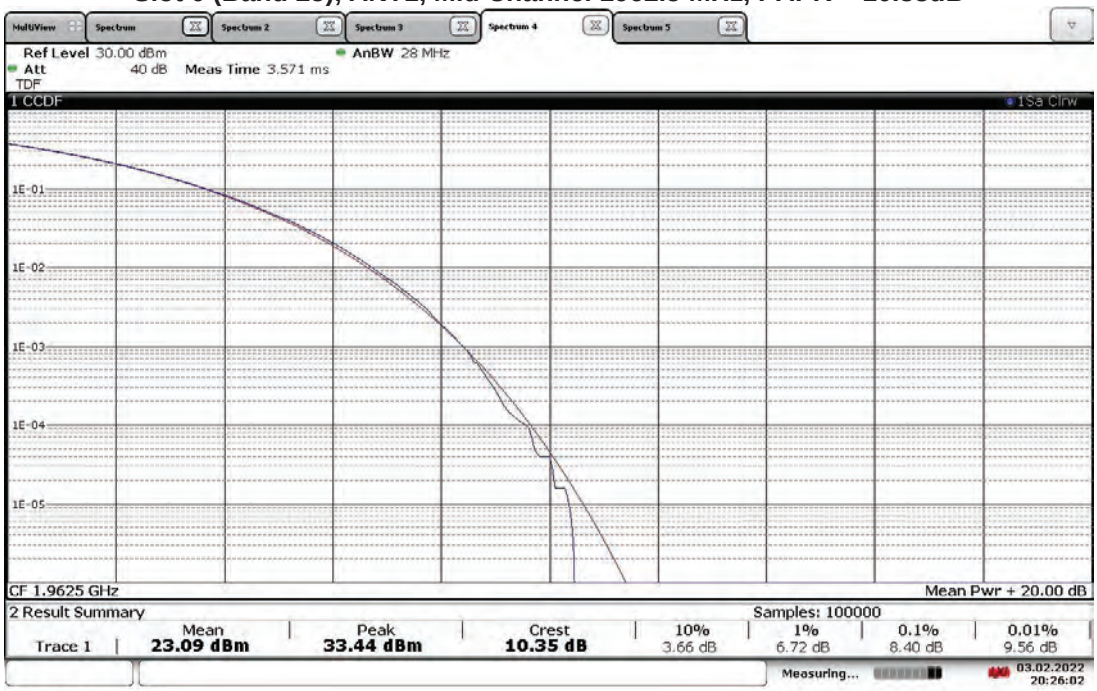
13:46:55 24.01.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Mid Channel 1962.5 MHz, PAPR = 8.09dB



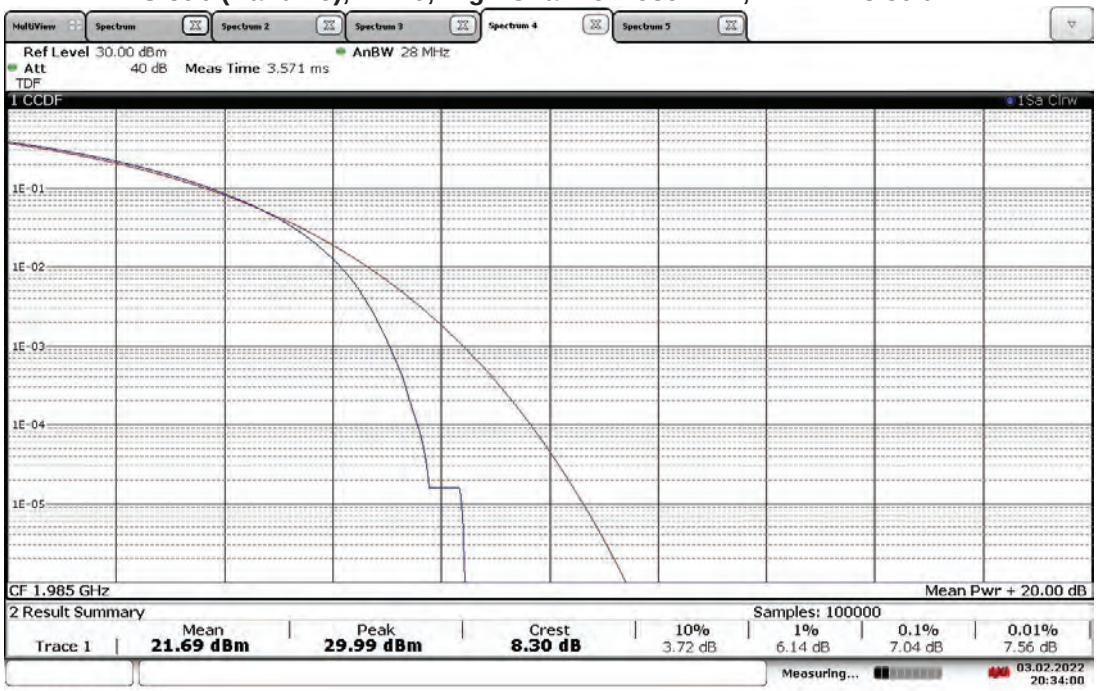
20:24:08 03.02.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Mid Channel 1962.5 MHz, PAPR = 10.33dB



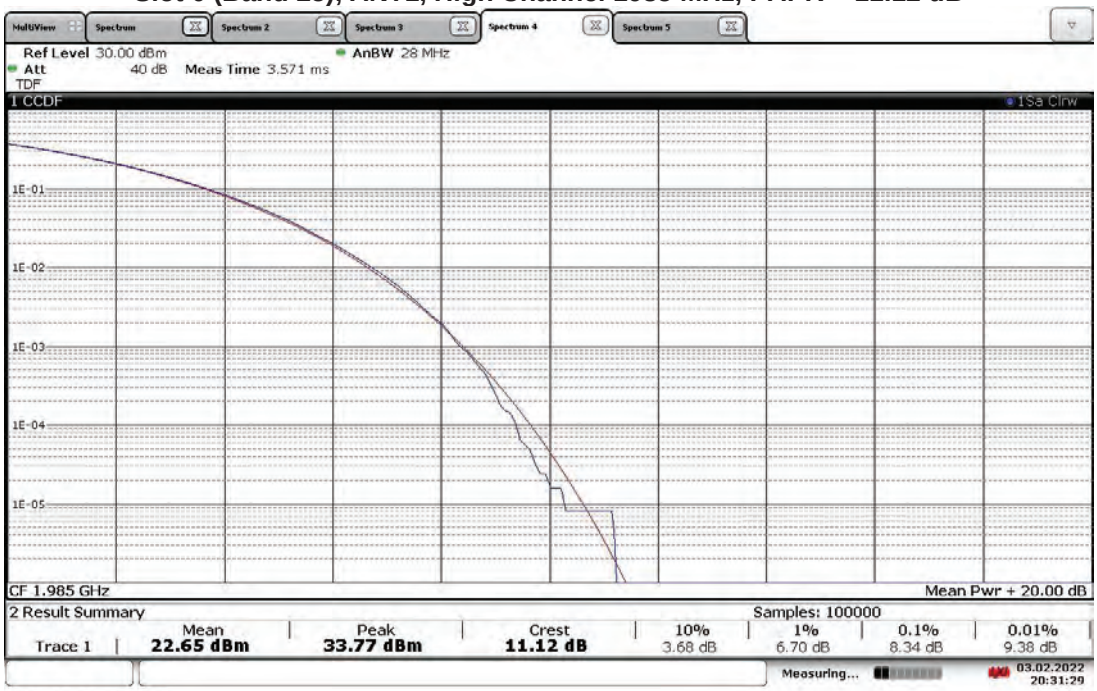
20:26:02 03.02.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1985 MHz, PAPR = 8.30 dB



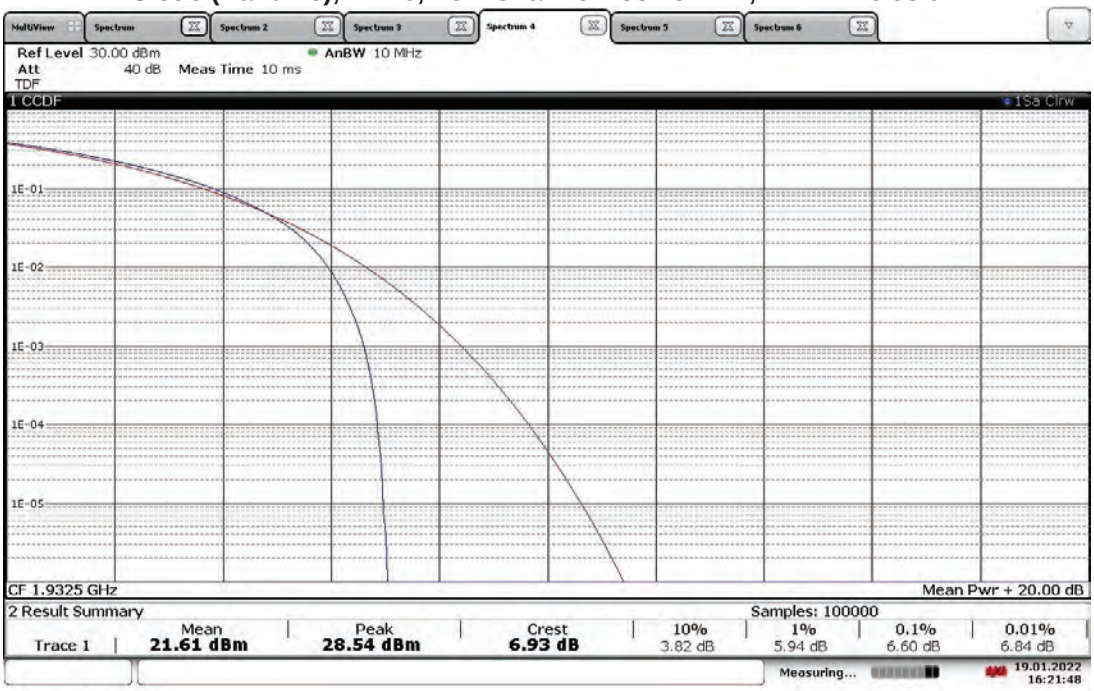
20:34:00 03.02.2022

TM3.1-64QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1985 MHz, PAPR = 11.12 dB



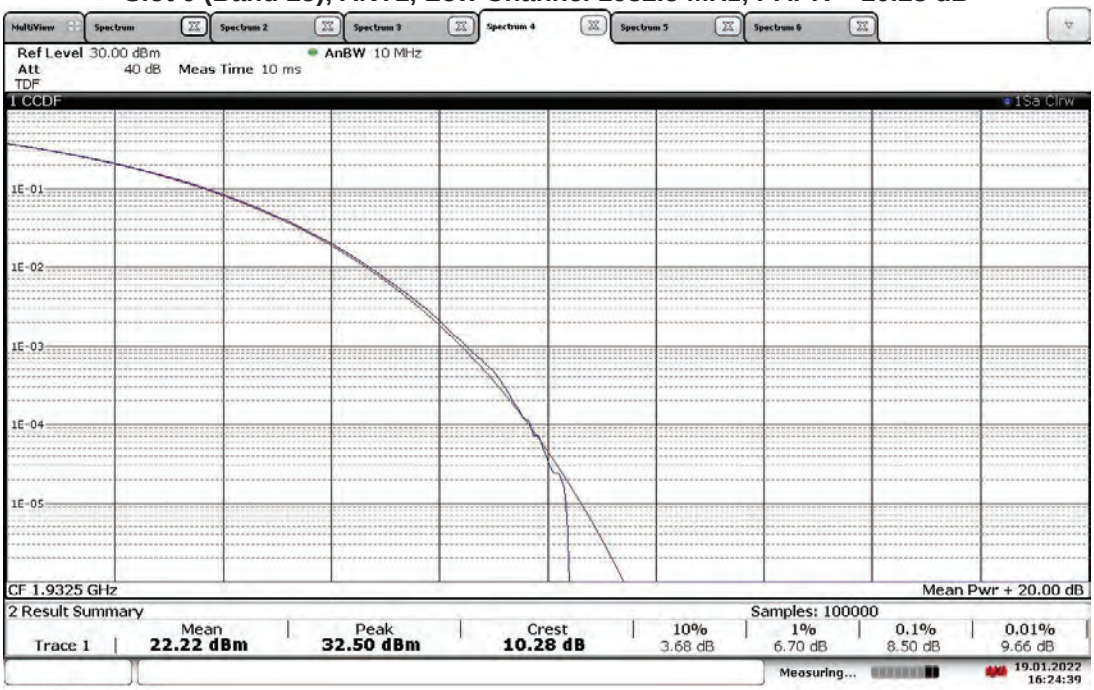
20:31:29 03.02.2022

TM3.1a - 256QAM_5MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Low Channel 1932.5 MHz, PAPR = 6.93 dB



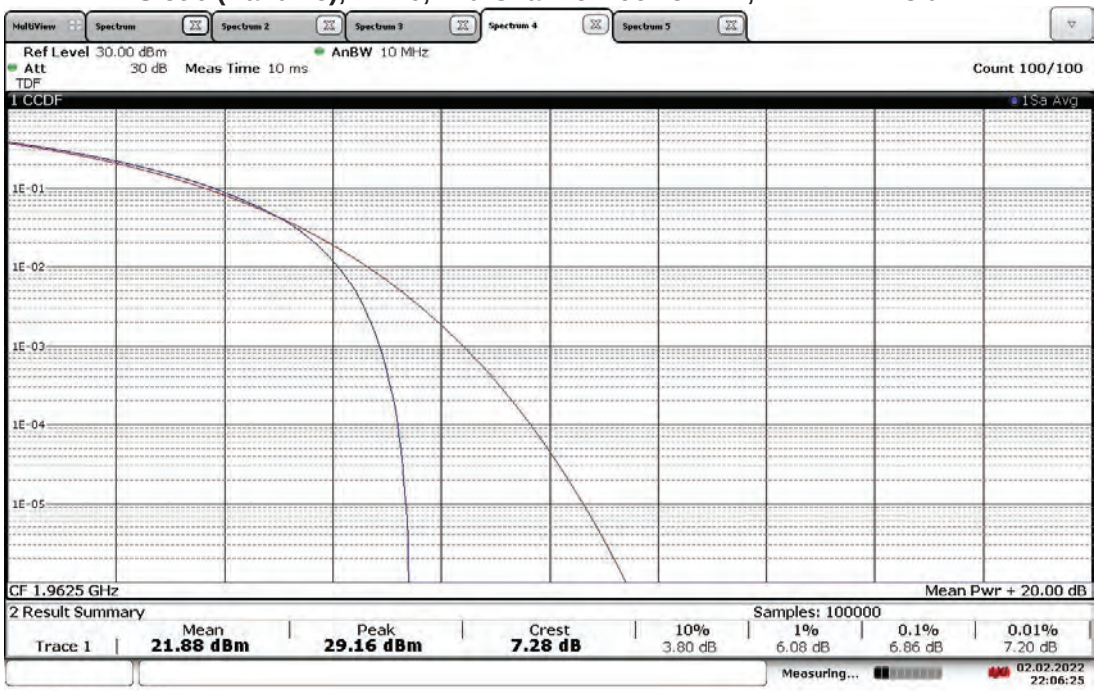
16:21:48 19.01.2022

TM3.1a - 256QAM_5MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Low Channel 1932.5 MHz, PAPR = 10.28 dB



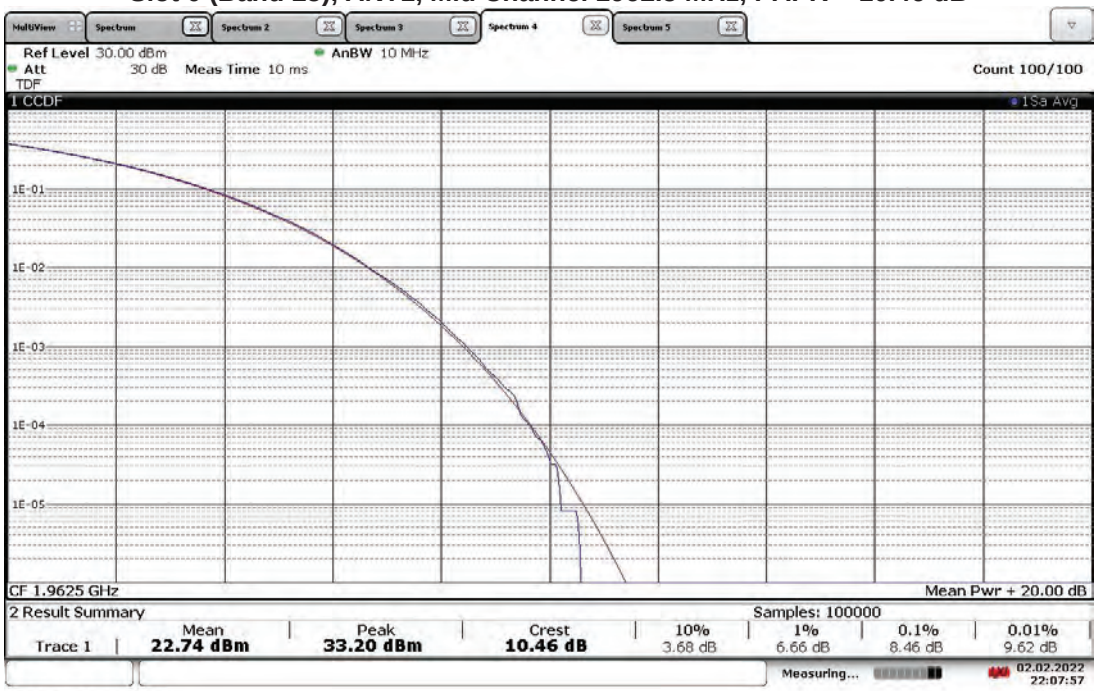
16:24:39 19.01.2022

TM3.1a - 256QAM_5MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Mid Channel 1962.5 MHz, PAPR = 7.28 dB



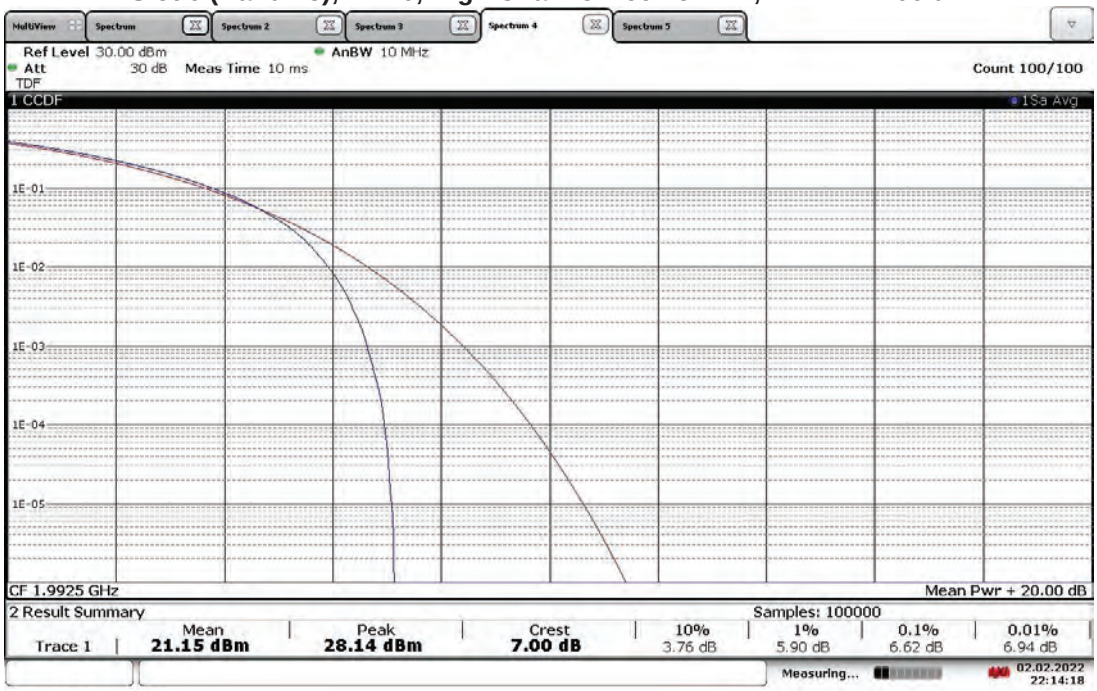
22:06:26 02.02.2022

TM3.1a - 256QAM_5MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Mid Channel 1962.5 MHz, PAPR = 10.46 dB



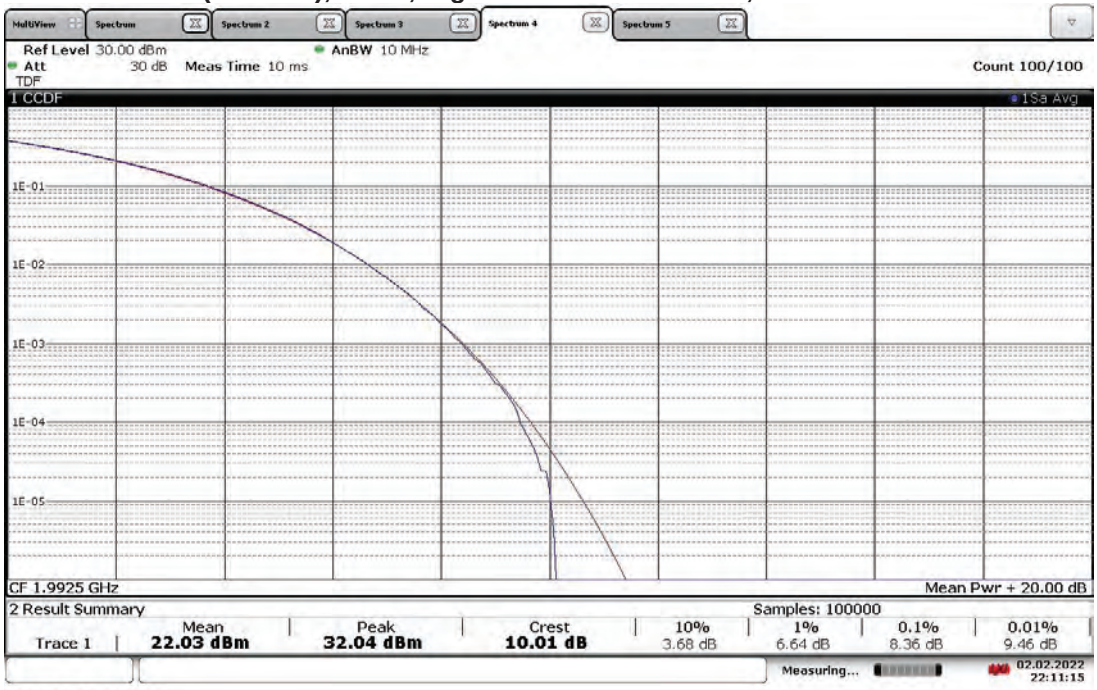
22:07:57 02.02.2022

TM3.1a - 256QAM_5MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1992.5 MHz, PAPR = 7.00 dB



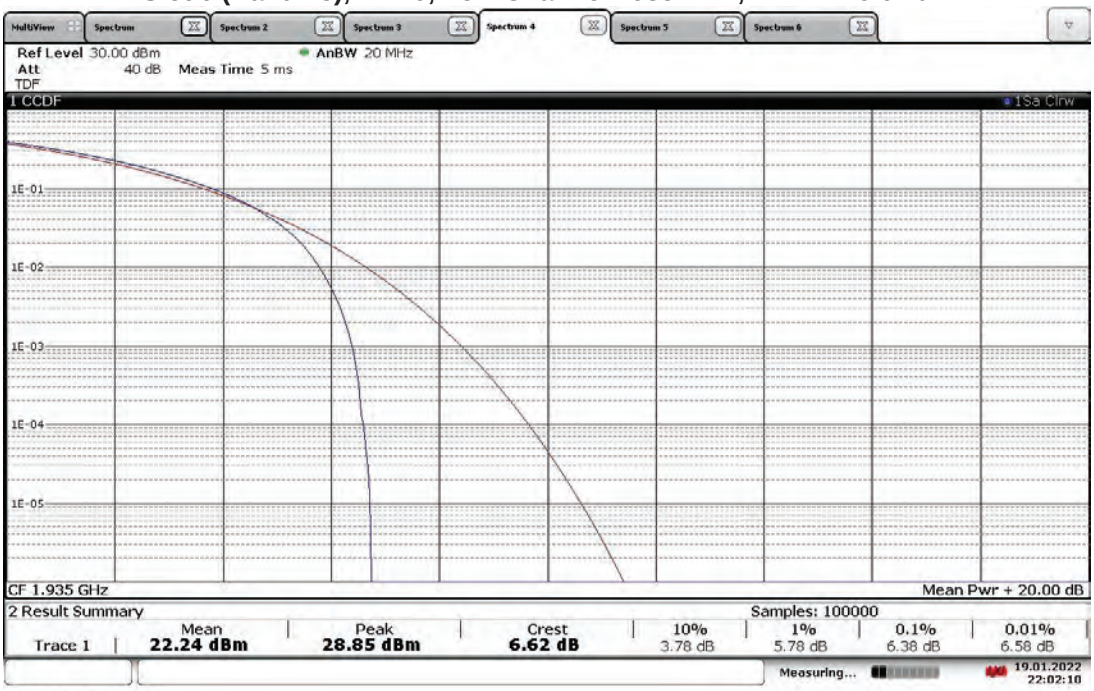
22:14:19 02.02.2022

TM3.1a - 256QAM_5MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1992.5 MHz, PAPR = 10.01 dB



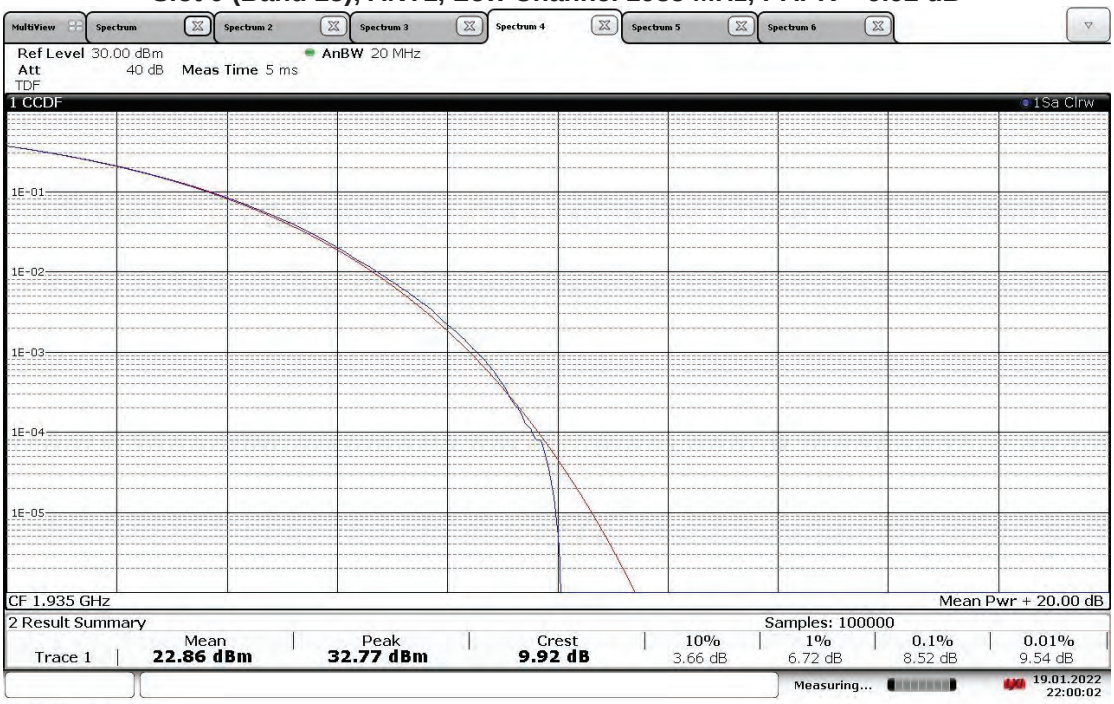
22:11:15 02.02.2022

TM3.1a - 256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Low Channel 1935 MHz, PAPR = 6.62 dB



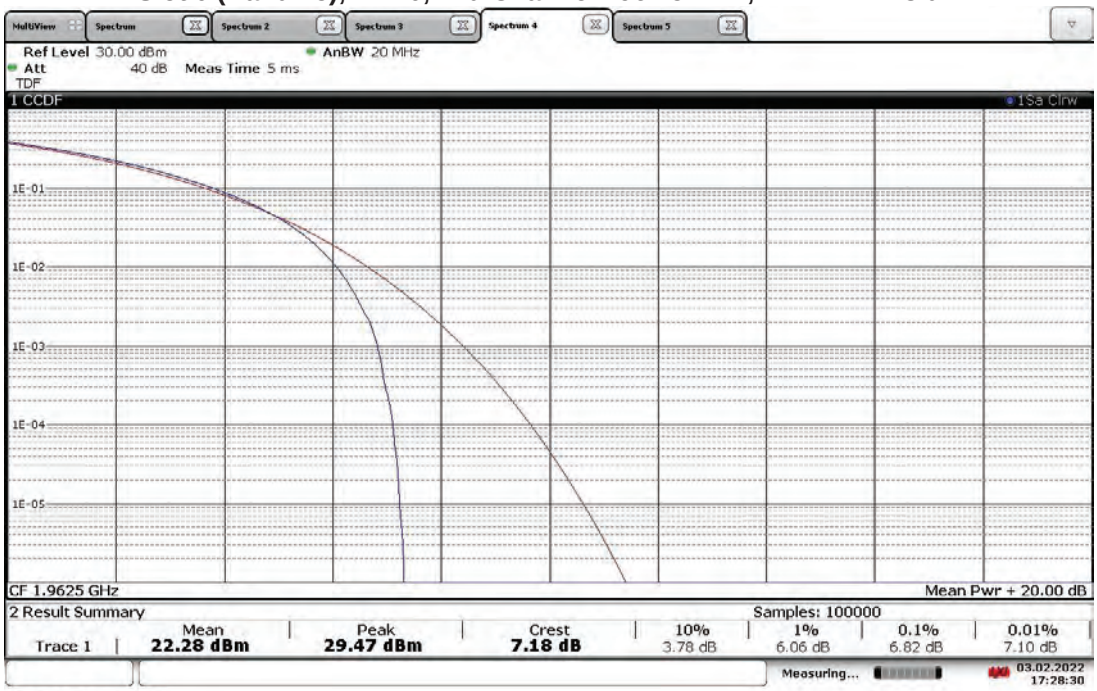
22:02:10 19.01.2022

TM3.1a - 256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Low Channel 1935 MHz, PAPR = 9.92 dB



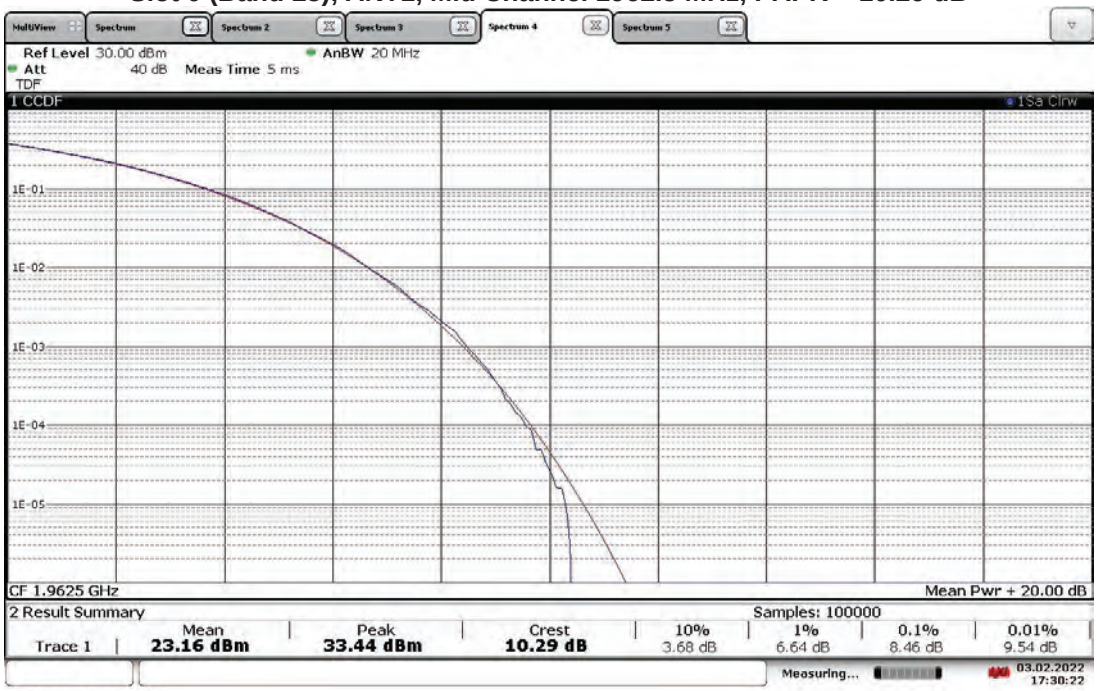
22:00:02 19.01.2022

TM3.1a - 256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Mid Channel 1962.5 MHz, PAPR = 7.18 dB



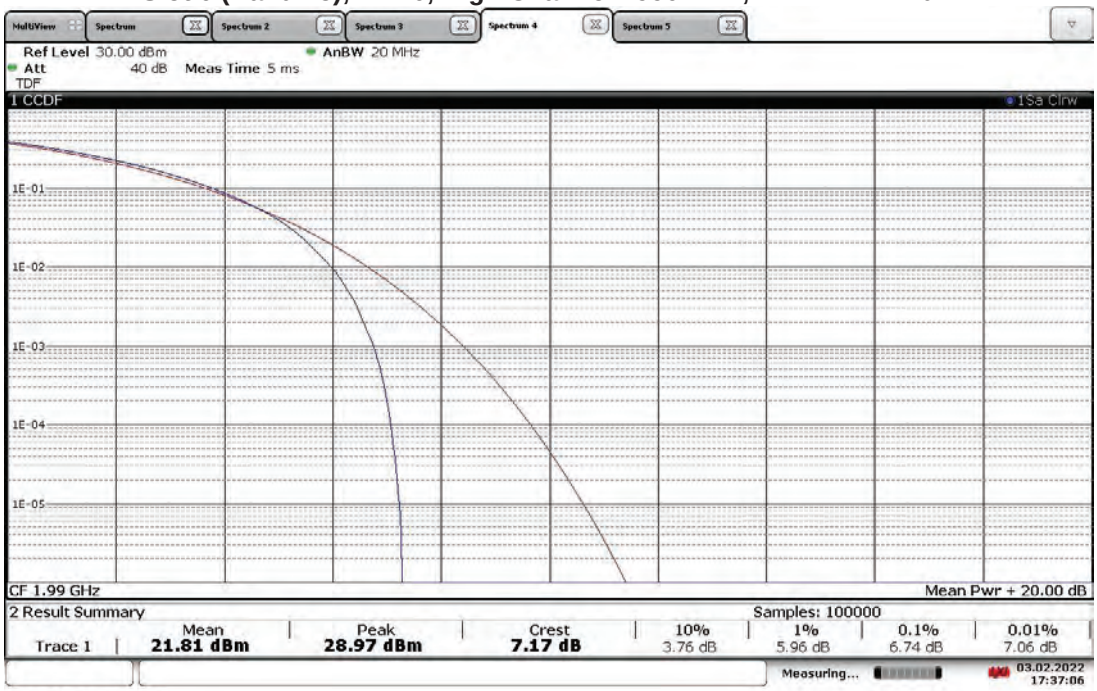
17:28:30 03.02.2022

TM3.1a - 256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Mid Channel 1962.5 MHz, PAPR = 10.29 dB



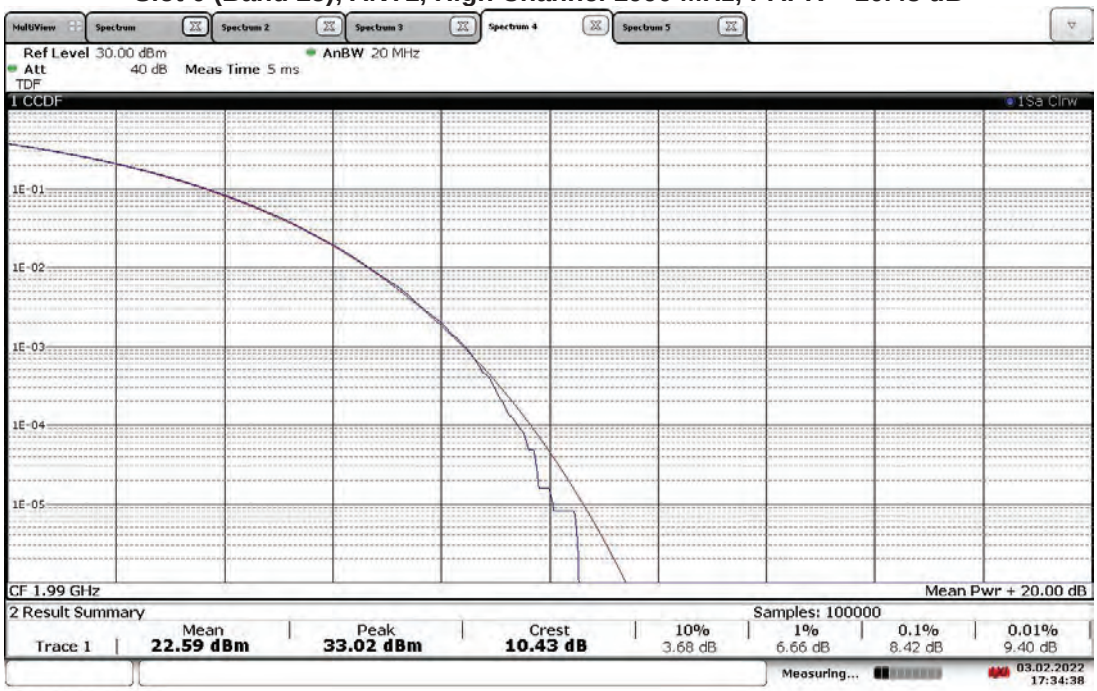
17:30:23 03.02.2022

TM3.1a - 256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1990 MHz, PAPR = 7.17 dB



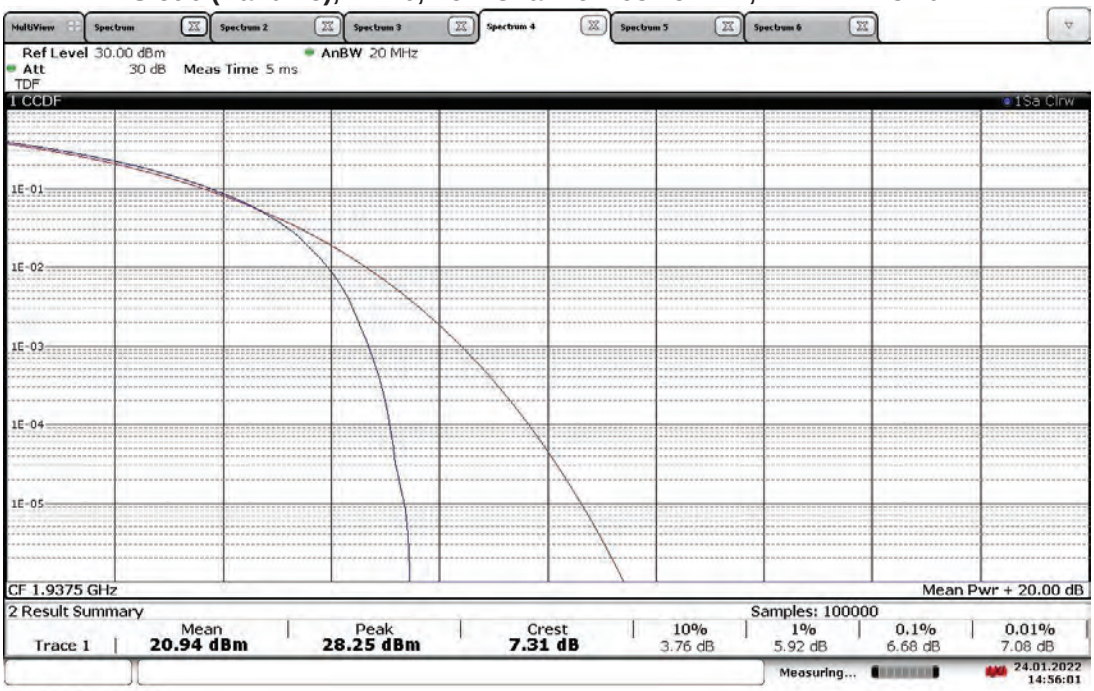
17:37:06 03.02.2022

TM3.1a - 256QAM_10 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1990 MHz, PAPR = 10.43 dB



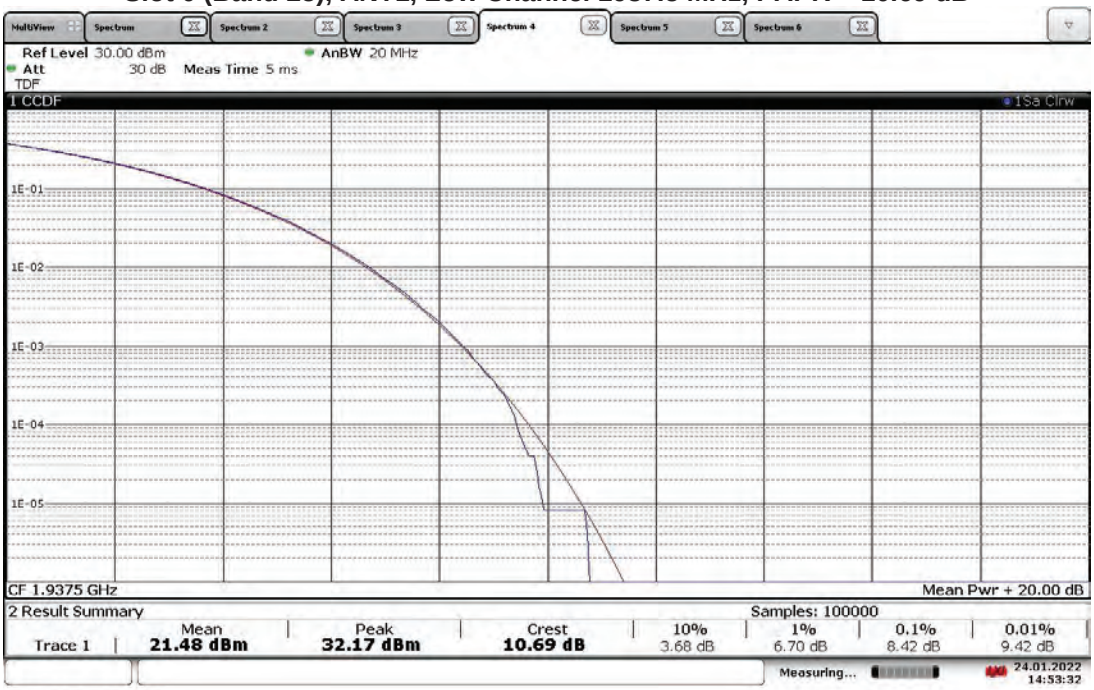
17:34:38 03.02.2022

TM3.1a - 256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Low Channel 1937.5 MHz, PAPR = 7.31 dB



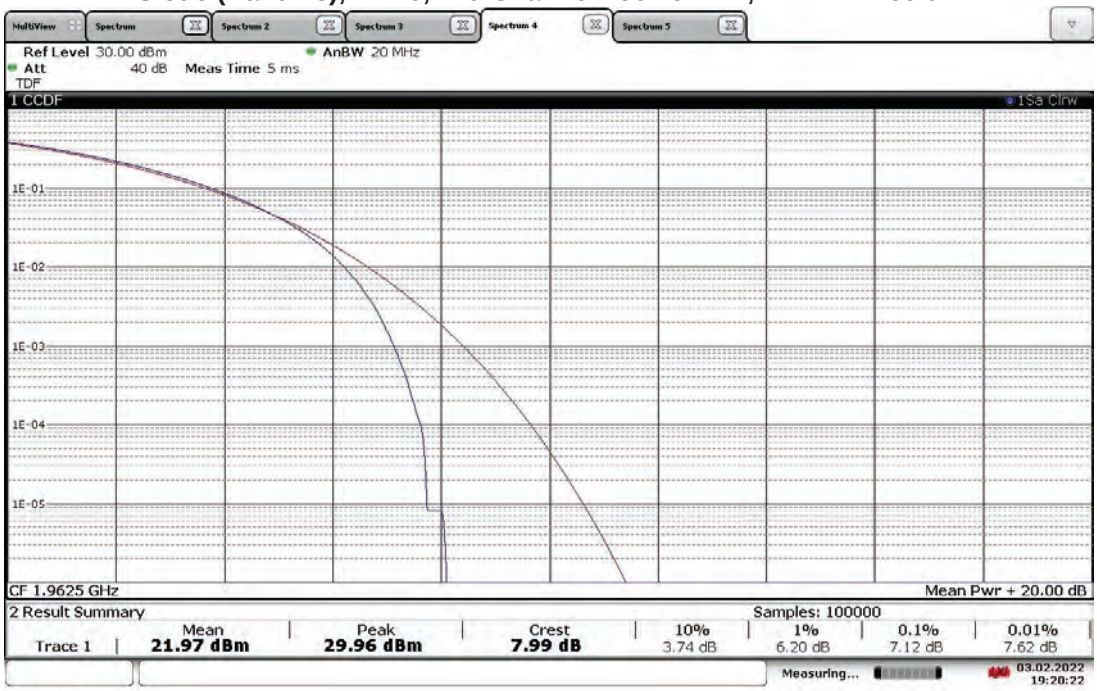
14:56:02 24.01.2022

TM3.1a - 256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Low Channel 1937.5 MHz, PAPR = 10.69 dB



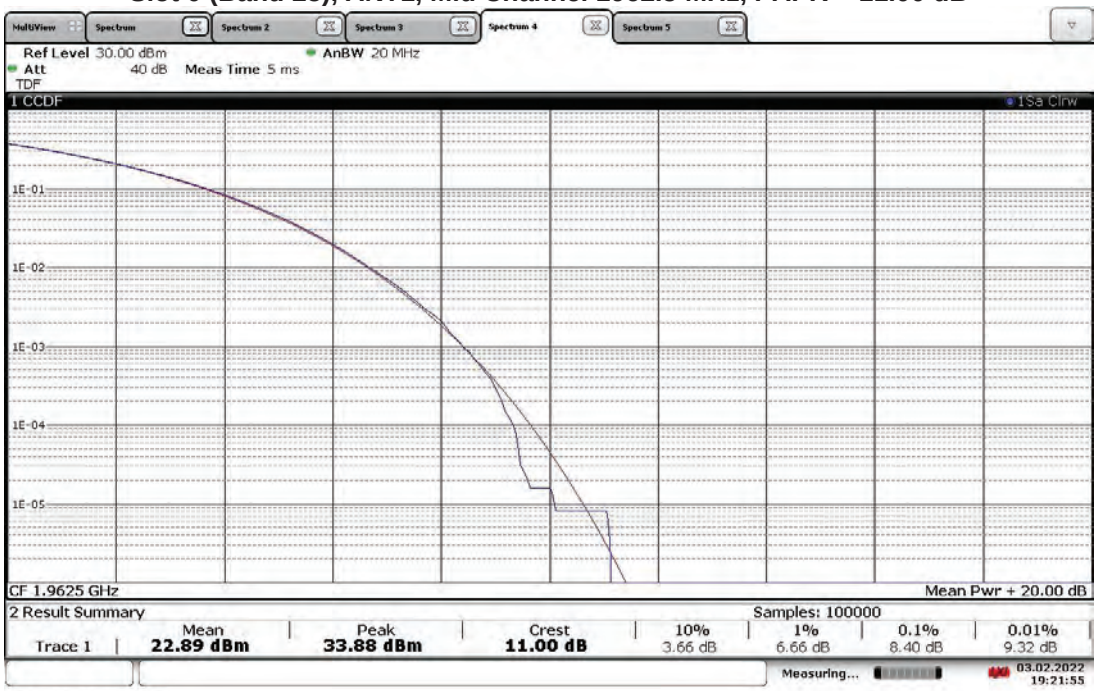
14:53:32 24.01.2022

TM3.1a - 256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Mid Channel 1962.5 MHz, PAPR = 7.99 dB



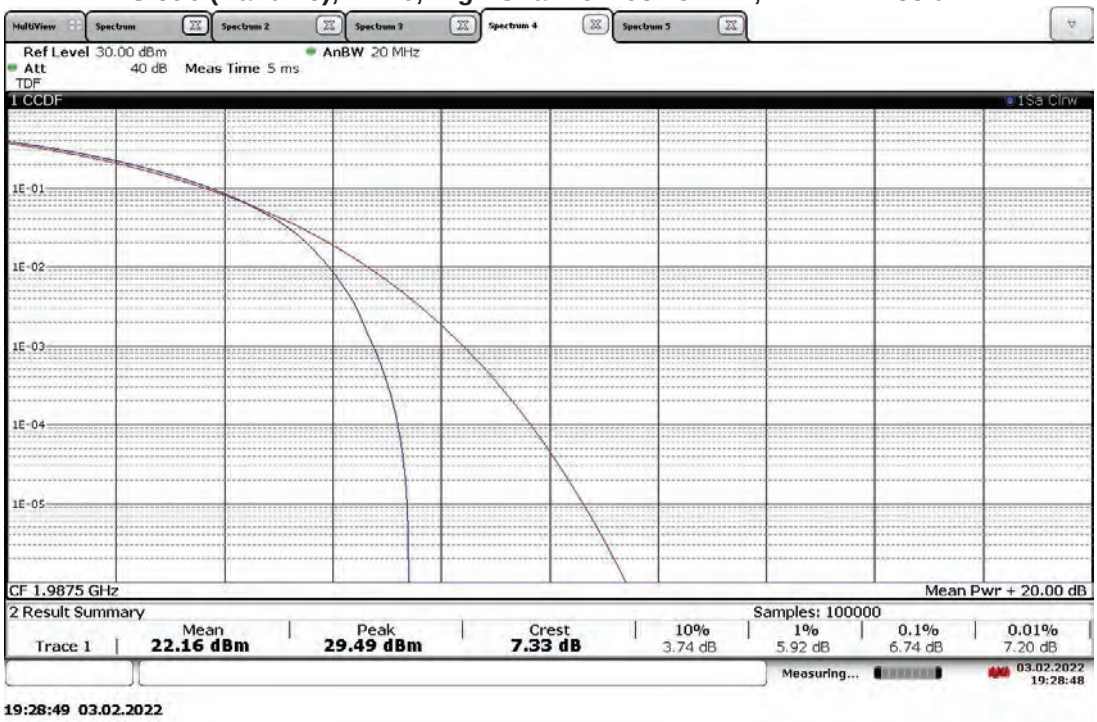
19:20:22 03.02.2022

TM3.1a - 256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Mid Channel 1962.5 MHz, PAPR = 11.00 dB



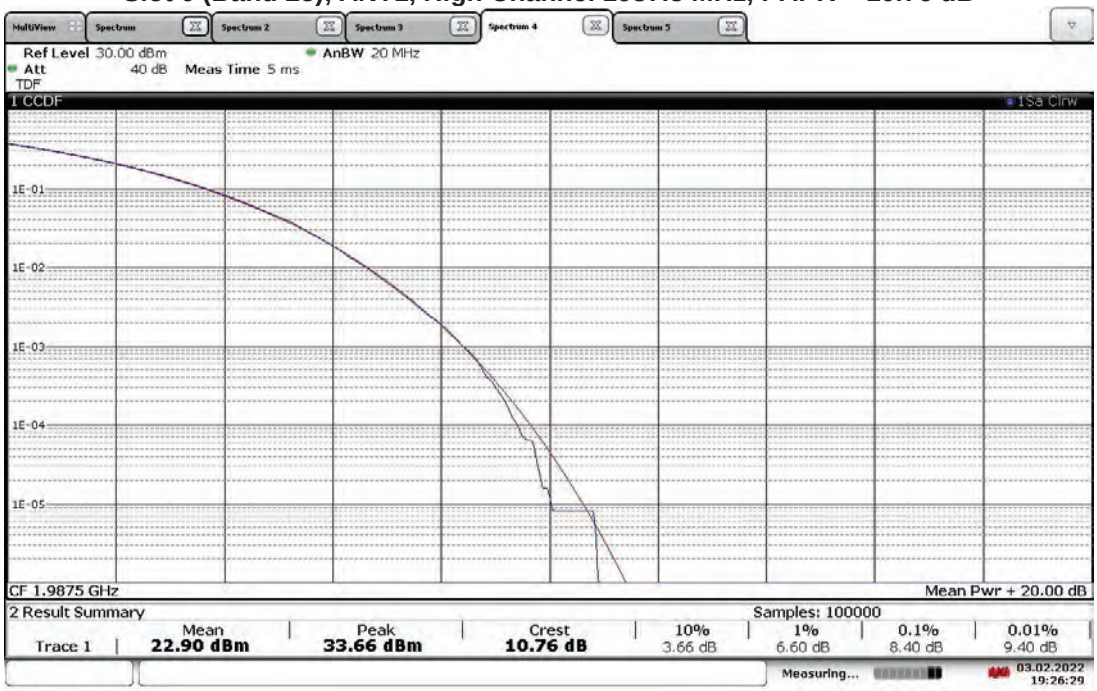
19:21:55 03.02.2022

TM3.1a - 256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1987.5 MHz, PAPR = 7.33 dB



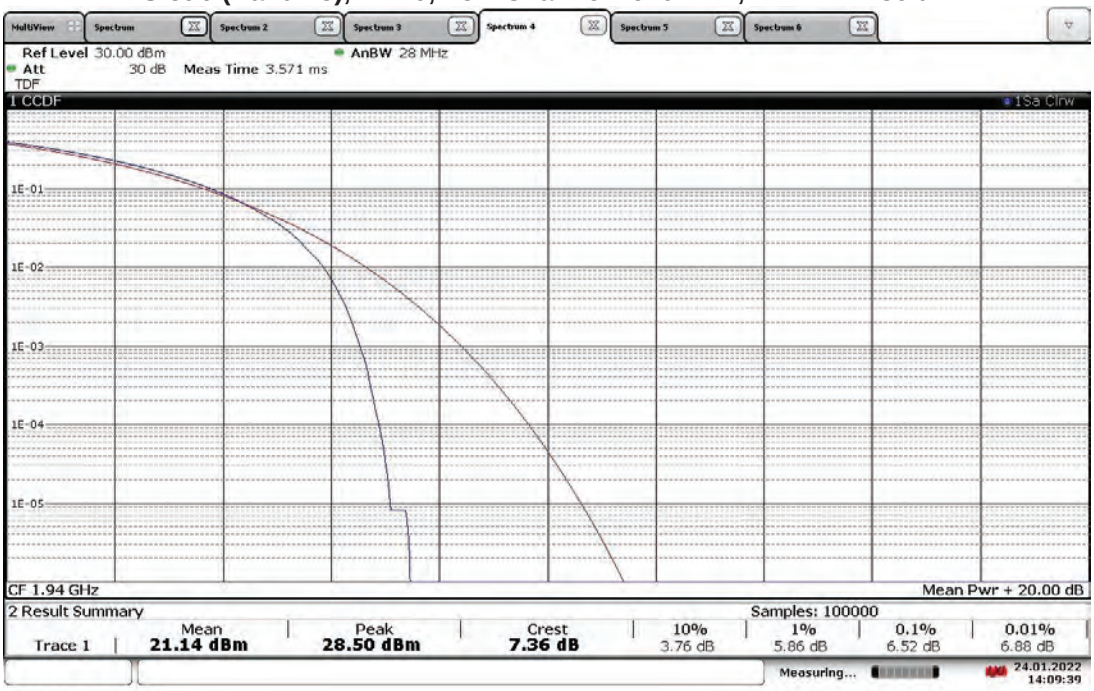
19:28:49 03.02.2022

TM3.1a - 256QAM_15 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1987.5 MHz, PAPR = 10.76 dB



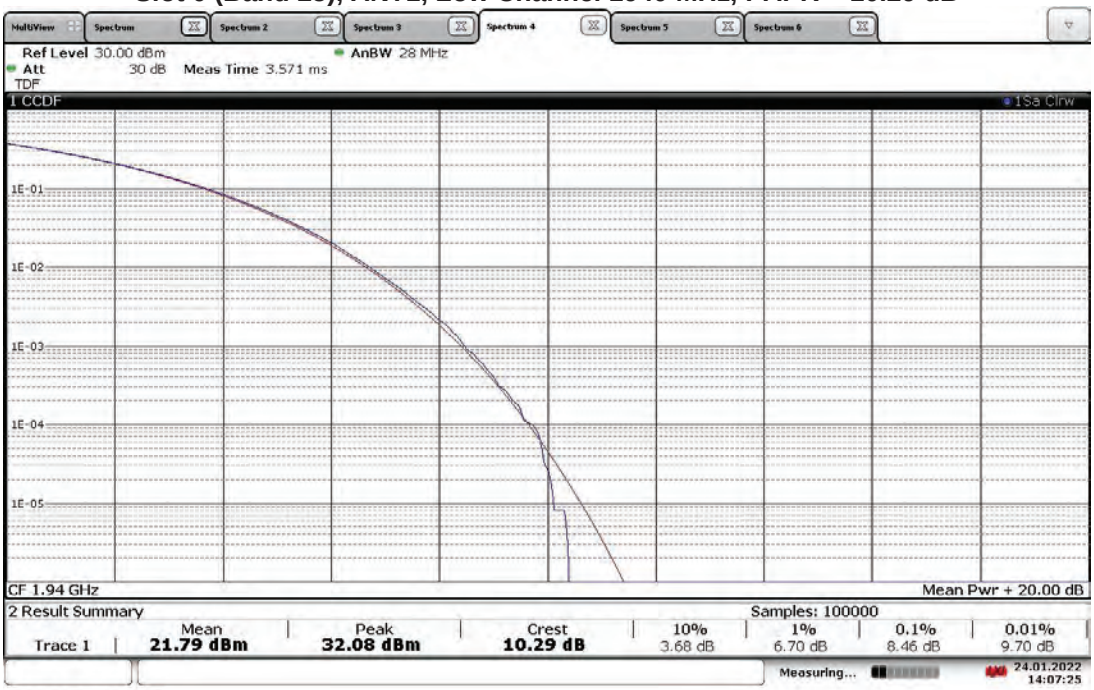
19:26:29 03.02.2022

TM3.1a - 256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Low Channel 1940 MHz, PAPR = 7.36 dB



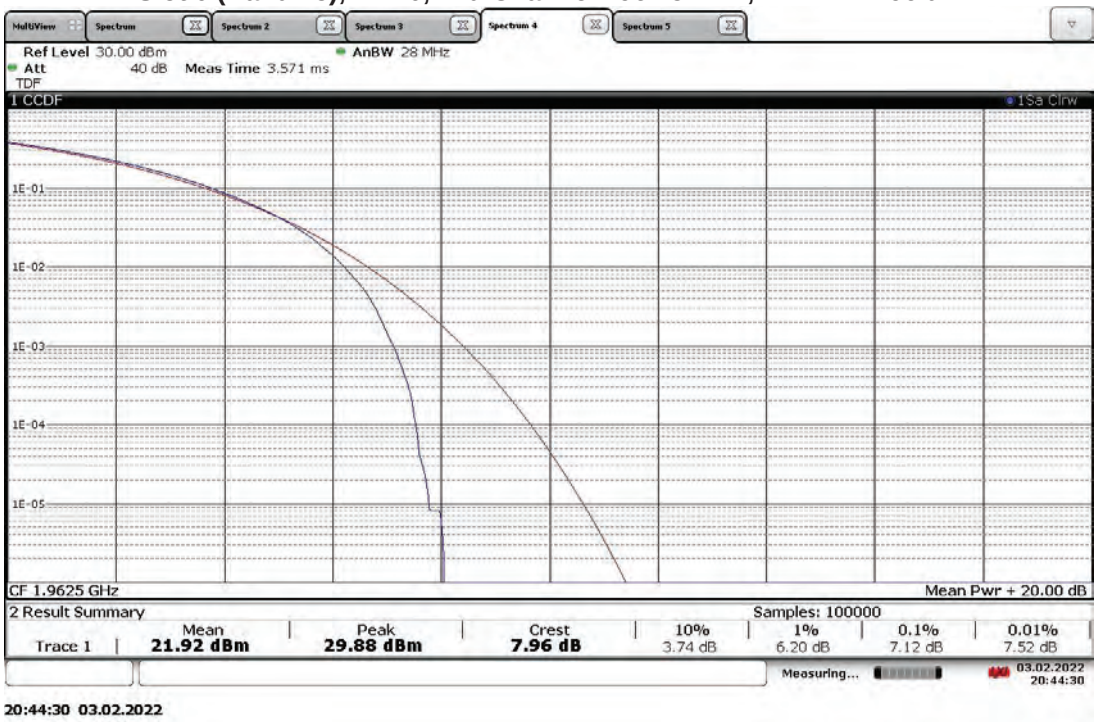
14:09:39 24.01.2022

TM3.1a - 256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Low Channel 1940 MHz, PAPR = 10.29 dB



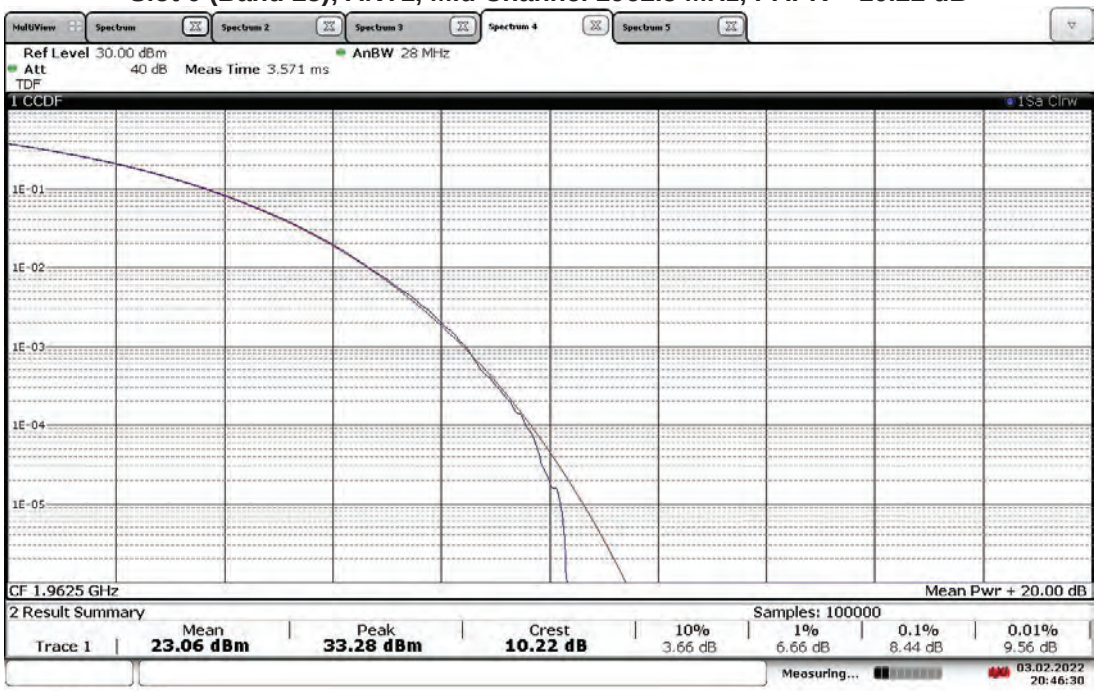
14:07:26 24.01.2022

TM3.1a - 256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, Mid Channel 1962.5 MHz, PAPR = 7.96 dB



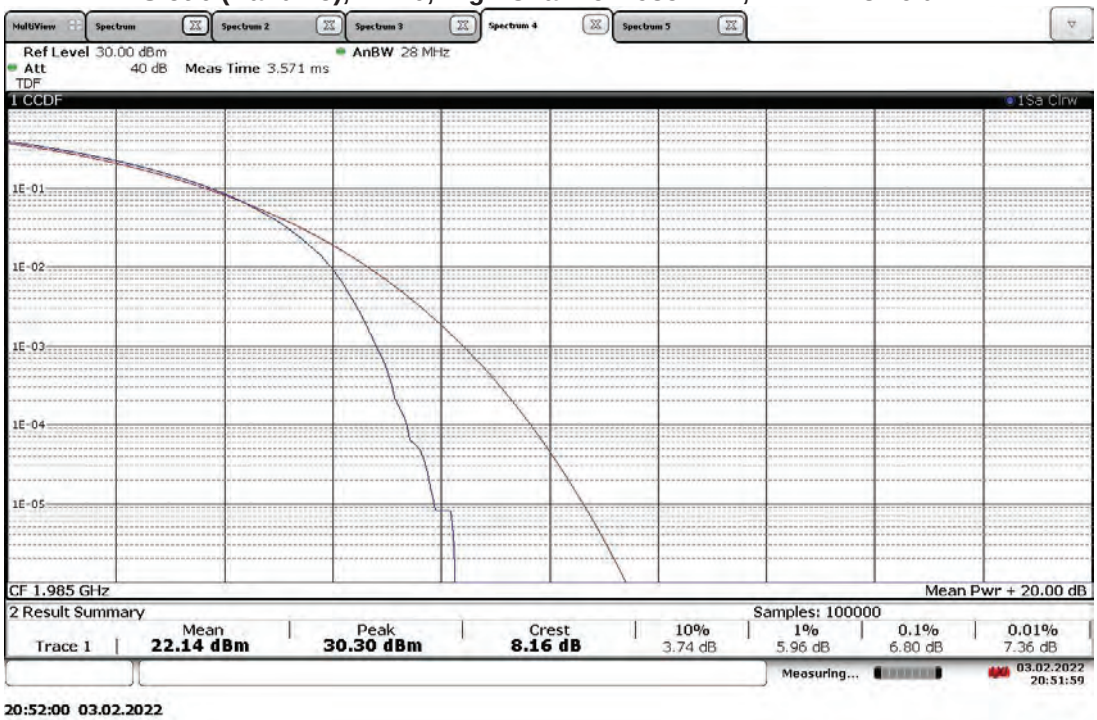
20:44:30 03.02.2022

TM3.1a - 256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, Mid Channel 1962.5 MHz, PAPR = 10.22 dB

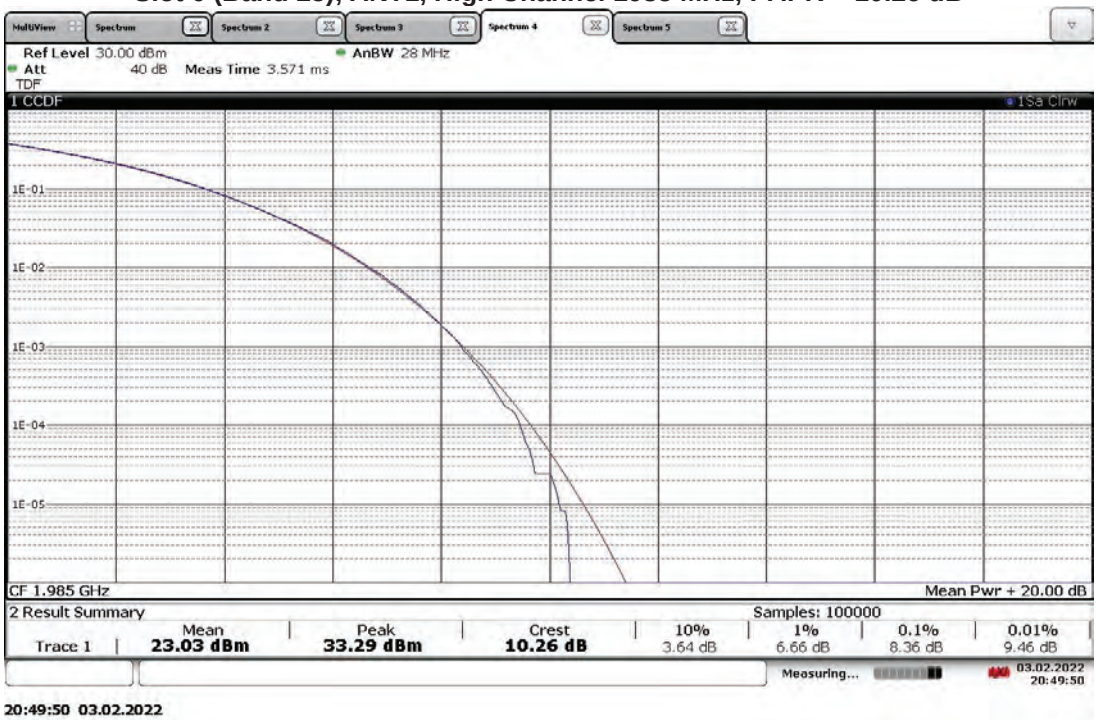


20:46:30 03.02.2022

TM3.1a - 256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT0, High Channel 1985 MHz, PAPR = 8.16 dB



TM3.1a - 256QAM_20 MHz Bandwidth (5G nR)
Slot 0 (Band 25), ANT1, High Channel 1985 MHz, PAPR = 10.26 dB



Test Personnel:	Kouma Sinn KPS	Test Date:	01/19/2022, 01/21/2022, 01/24/2022, 02/14/2022
Supervising/Reviewing Engineer: (Where Applicable)	N/A		
Product Standard:	FCC Part 24	Limit Applied:	See report section 7.3
Input Voltage:	48 VDC (POE)		
Pretest Verification w/ Ambient Signals or BB Source:	N/A	Ambient Temperature:	24, 24, 23, 23 ºC
		Relative Humidity:	15, 8, 12, 13 %
		Atmospheric Pressure:	1003, 1025, 1002, 1005 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 24.

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

Software Utilized:

Name	Manufacturer	Version
None	--	--

8.3 Results:

The sample tested was found to Comply.

§24.238(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.

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM1.1-QPSK (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.509	5.16
		ANT1	4.488	5.00
Mid	1962.50	ANT0	4.504	4.97
		ANT1	4.504	4.96
High	1992.50	ANT0	4.516	4.99
		ANT1	4.494	4.98

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM1.1-QPSK (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.980	10.11
		ANT1	8.934	10.01
Mid	1962.50	ANT0	8.928	9.79
		ANT1	8.933	9.80
High	1990.00	ANT0	8.944	9.80
		ANT1	8.919	9.79

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM1.1-QPSK (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.445	14.82
		ANT1	13.461	14.68
Mid	1962.50	ANT0	13.453	14.87
		ANT1	13.445	14.78
High	1987.5	ANT0	13.465	14.86
		ANT1	13.422	14.62

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM1.1-QPSK (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.824	19.46
		ANT1	17.815	19.36
Mid	1962.50	ANT0	17.868	19.33
		ANT1	17.827	19.39
High	1985.00	ANT0	17.852	19.50
		ANT1	17.831	19.43

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM3.2-16QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.495	4.98
		ANT1	4.484	4.94
Mid	1962.50	ANT0	4.516	4.95
		ANT1	4.510	4.96
High	1992.50	ANT0	4.506	4.95
		ANT1	4.484	4.92

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM3.2-16QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.931	9.66
		ANT1	8.963	9.73
Mid	1962.50	ANT0	8.972	9.67
		ANT1	8.918	9.82
High	1990.00	ANT0	8.930	9.69
		ANT1	8.916	9.63

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM3.2-16QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.487	14.58
		ANT1	13.430	14.44
Mid	1962.50	ANT0	13.428	14.47
		ANT1	13.455	14.50
High	1987.5	ANT0	13.372	14.28
		ANT1	13.391	14.69

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM3.2-16QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.903	19.15
		ANT1	17.833	19.30
Mid	1962.50	ANT0	17.874	19.51
		ANT1	17.806	19.33
High	1985.00	ANT0	17.813	19.31
		ANT1	17.826	19.19

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM3.1-64QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.523	5.03
		ANT1	4.498	4.94
4.98Mid	1962.50	ANT0	4.547	5.00
		ANT1	4.503	4.98
High	1992.50	ANT0	4.524	4.99
		ANT1	4.523	4.98

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM3.1-64QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.953	9.74
		ANT1	8.987	9.86
Mid	1962.50	ANT0	8.938	9.80
		ANT1	8.962	9.74
High	1990.00	ANT0	8.969	9.84
		ANT1	8.930	9.81

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM3.1-64QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.447	14.63
		ANT1	13.414	14.62
Mid	1962.50	ANT0	13.491	14.67
		ANT1	13.438	14.63
High	1987.5	ANT0	13.481	14.70
		ANT1	13.414	14.61

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM3.1-64QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.874	19.40
		ANT1	17.864	19.30
Mid	1962.50	ANT0	17.805	19.47
		ANT1	17.795	19.35
High	1985.00	ANT0	17.890	19.19
		ANT1	17.856	19.21

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM3.1a-256QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.508	4.97
		ANT1	4.514	4.96
Mid	1962.50	ANT0	4.507	4.98
		ANT1	4.502	4.94
High	1992.50	ANT0	4.541	4.96
		ANT1	4.507	4.92

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM3.1a-256QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.945	9.83
		ANT1	8.924	9.68
Mid	1962.50	ANT0	8.961	9.71
		ANT1	8.943	9.79
High	1990.00	ANT0	8.975	9.71
		ANT1	8.928	9.67

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM3.1a-256QAM (4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.455	14.71
		ANT1	13.428	14.50
Mid	1962.50	ANT0	13.458	14.75
		ANT1	13.471	14.61
High	1987.5	ANT0	13.438	14.74
		ANT1	13.358	14.59

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM3.1a-256QAM(4G LTE)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.848	19.43
		ANT1	17.851	19.86
Mid	1962.50	ANT0	17.847	19.55
		ANT1	17.857	19.48
High	1985.00	ANT0	17.871	19.60
		ANT1	17.865	19.47

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM1.1-QPSK (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.516	5.00
		ANT1	4.502	4.97
Mid	1962.50	ANT0	4.508	4.97
		ANT1	4.492	4.95
High	1992.50	ANT0	4.505	5.11
		ANT1	4.499	4.95

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM1.1-QPSK (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.958	9.99
		ANT1	8.946	10.05
Mid	1962.50	ANT0	9.977	10.04
		ANT1	8.938	9.95
High	1990.00	ANT0	8.987	10.08
		ANT1	8.931	10.00

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM1.1-QPSK (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.485	15.51
		ANT1	13.448	15.15
Mid	1962.50	ANT0	13.510	15.20
		ANT1	13.437	15.13
High	1987.5	ANT0	13.419	15.06
		ANT1	13.429	14.89

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM1.1-QPSK (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.810	19.73
		ANT1	17.861	19.80
Mid	1962.50	ANT0	17.890	19.64
		ANT1	17.892	19.72
High	1985.00	ANT0	17.858	19.81
		ANT1	17.824	19.62

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM3.2-16QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.511	4.97
		ANT1	4.468	4.92
Mid	1962.50	ANT0	4.516	4.95
		ANT1	4.510	4.92
High	1992.50	ANT0	4.492	4.95
		ANT1	4.484	4.494

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM3.2-16QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.953	9.96
		ANT1	8.956	9.96
Mid	1962.50	ANT0	8.937	9.91
		ANT1	8.983	9.98
High	1990.00	ANT0	8.984	9.99
		ANT1	8.995	9.95

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM3.2-16QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.457	14.88
		ANT1	13.406	14.87
Mid	1962.50	ANT0	13.510	14.69
		ANT1	13.415	14.85
High	1987.5	ANT0	13.462	14.66
		ANT1	13.460	14.87

(5G nR)

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM3.2-16QAM

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.848	19.67
		ANT1	17.809	19.52
Mid	1962.50	ANT0	17.887	19.65
		ANT1	17.915	19.70
High	1985.00	ANT0	17.919	19.71
		ANT1	17.817	19.54

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM3.1-64QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.547	4.98
		ANT1	4.535	5.01
Mid	1962.50	ANT0	4.509	4.98
		ANT1	4.510	4.96
High	1992.50	ANT0	4.514	4.96
		ANT1	4.514	4.98

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM3.1-64QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.994	9.98
		ANT1	8.953	10.00
Mid	1962.50	ANT0	8.988	10.04
		ANT1	8.952	9.98
High	1990.00	ANT0	8.987	9.84
		ANT1	8.969	9.90

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM3.1-64QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.464	14.89
		ANT1	13.403	15.54
Mid	1962.50	ANT0	13.469	15.05
		ANT1	13.415	15.02
High	1987.5	ANT0	13.487	14.95
		ANT1	13.496	15.00

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM3.1-64QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.851	19.56
		ANT1	17.875	19.63
Mid	1962.50	ANT0	17.885	19.64
		ANT1	17.838	19.80
High	1985.00	ANT0	17.893	19.60
		ANT1	17.838	19.58

Slot 0 (Band 25), Bandwidth: 5 MHz, Modulation: TM3.1a-256QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1932.50	ANT0	4.524	4.95
		ANT1	4.510	4.96
Mid	1962.50	ANT0	4.508	4.99
		ANT1	4.508	4.494
High	1992.50	ANT0	4.515	4.98
		ANT1	4.499	4.97

Slot 0 (Band 25), Bandwidth: 10 MHz, Modulation: TM3.1a-256QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1935.00	ANT0	8.950	9.98
		ANT1	8.964	9.93
Mid	1962.50	ANT0	8.983	9.56
		ANT1	8.949	9.99
High	1990.00	ANT0	8.950	9.89
		ANT1	8.956	9.97

Slot 0 (Band 25), Bandwidth: 15 MHz, Modulation: TM3.1a-256QAM (5G nR)

Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1937.50	ANT0	13.448	14.98
		ANT1	13.426	15.19
Mid	1962.50	ANT0	13.445	15.08
		ANT1	13.420	15.04
High	1987.5	ANT0	13.396	15.04
		ANT1	13.482	15.03

Slot 0 (Band 25), Bandwidth: 20 MHz, Modulation: TM3.1a-256QAM (5G nR)

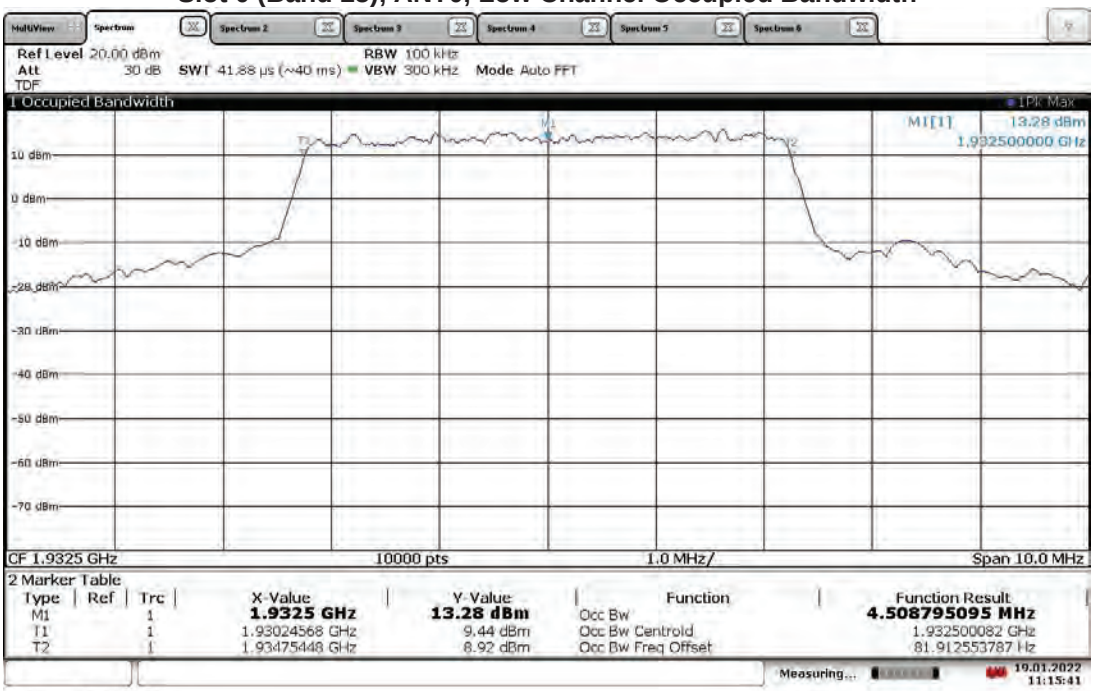
Channel	Frequency (MHz)	Antenna Port	Occupied BW (MHz)	26 dB BW (MHz)
Low	1940.00	ANT0	17.830	19.53
		ANT1	17.784	19.75
Mid	1962.50	ANT0	17.875	19.82
		ANT1	17.857	19.62
High	1985.00	ANT0	17.883	19.66
		ANT1	17.832	19.64

8.4 Setup Photograph:

Confidential – Photos not included in this report

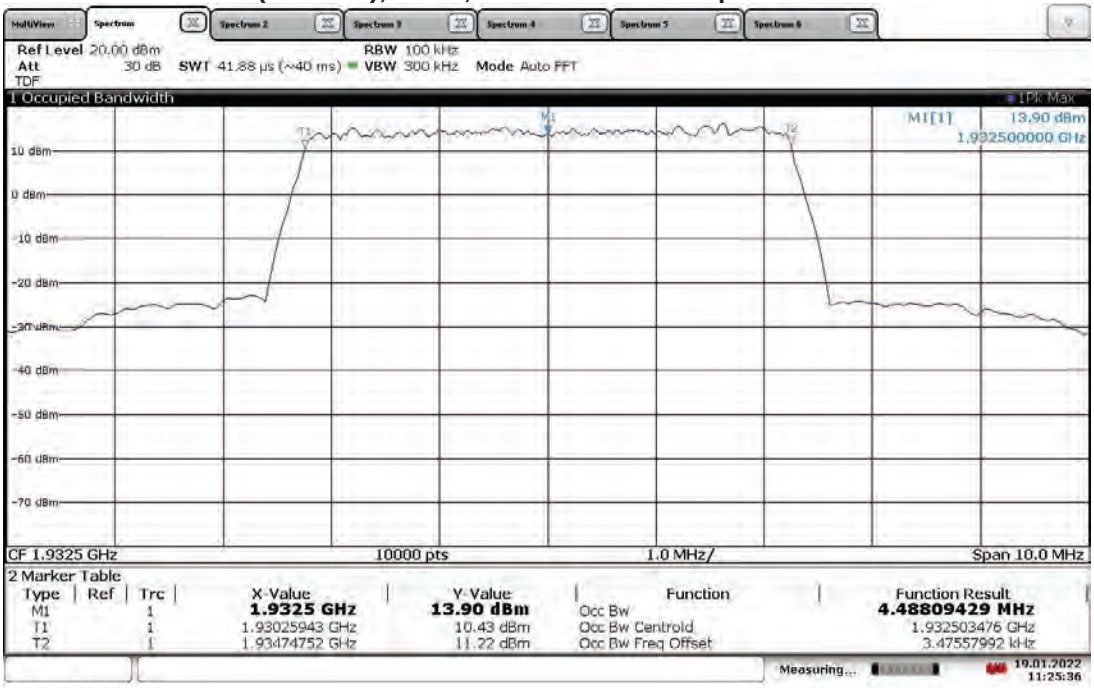
8.5 Plots/Data:

TM1.1-QPSK_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



11:15:42 19.01.2022

TM1.1-QPSK_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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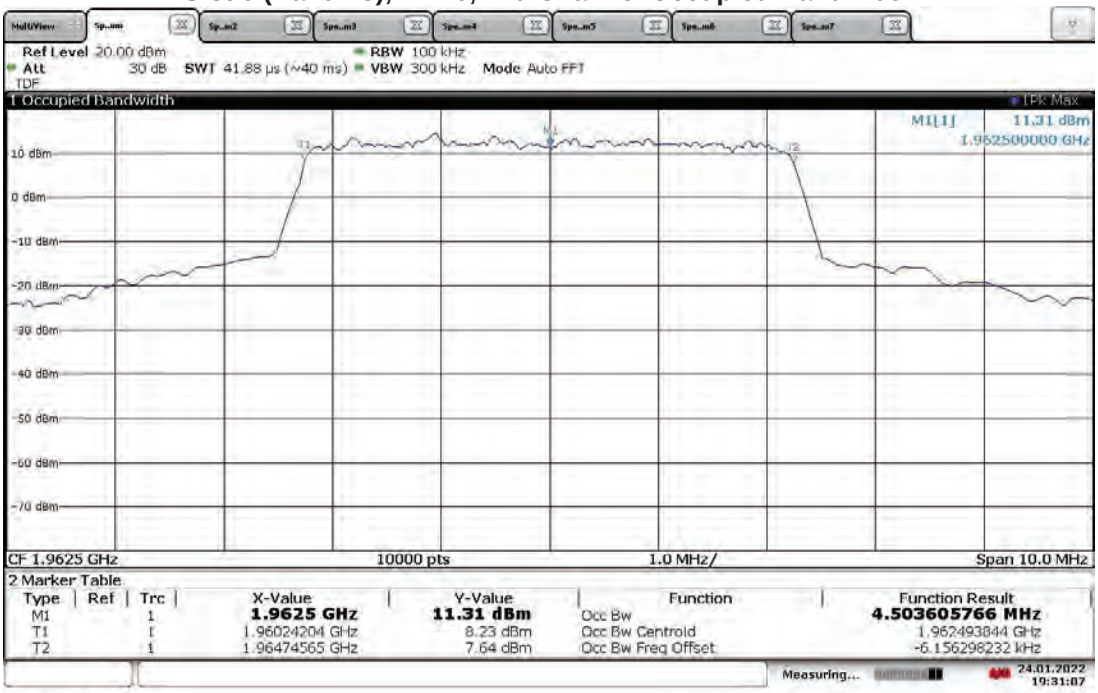
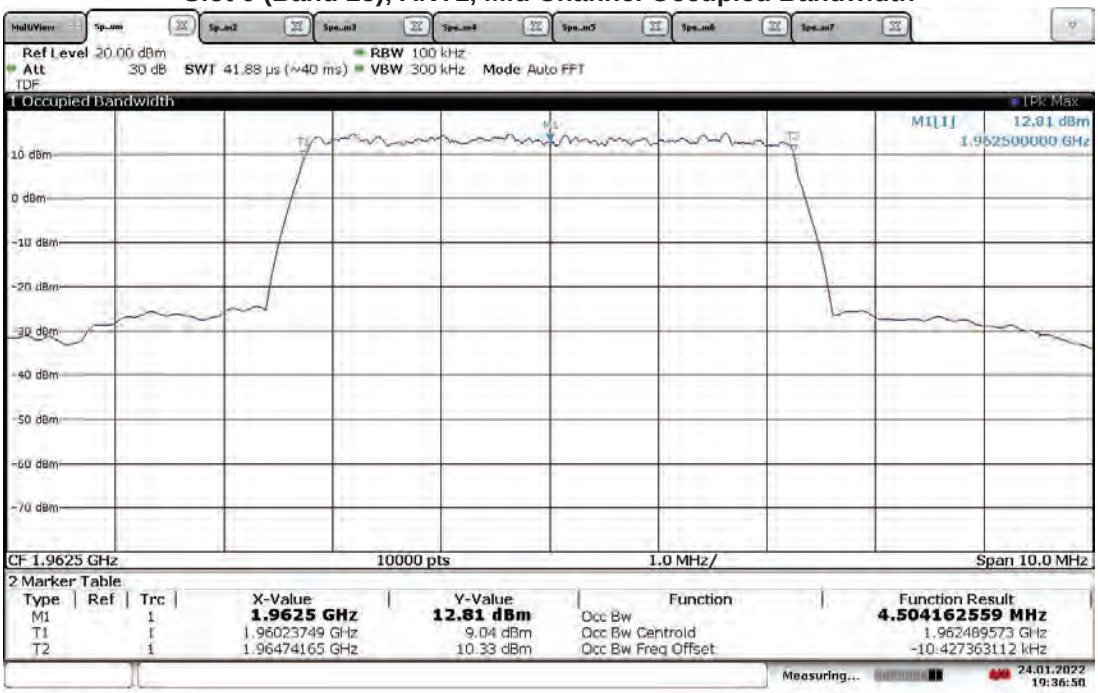
TM1.1-QPSK_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



19:31:07 24.01.2022

TM1.1-QPSK_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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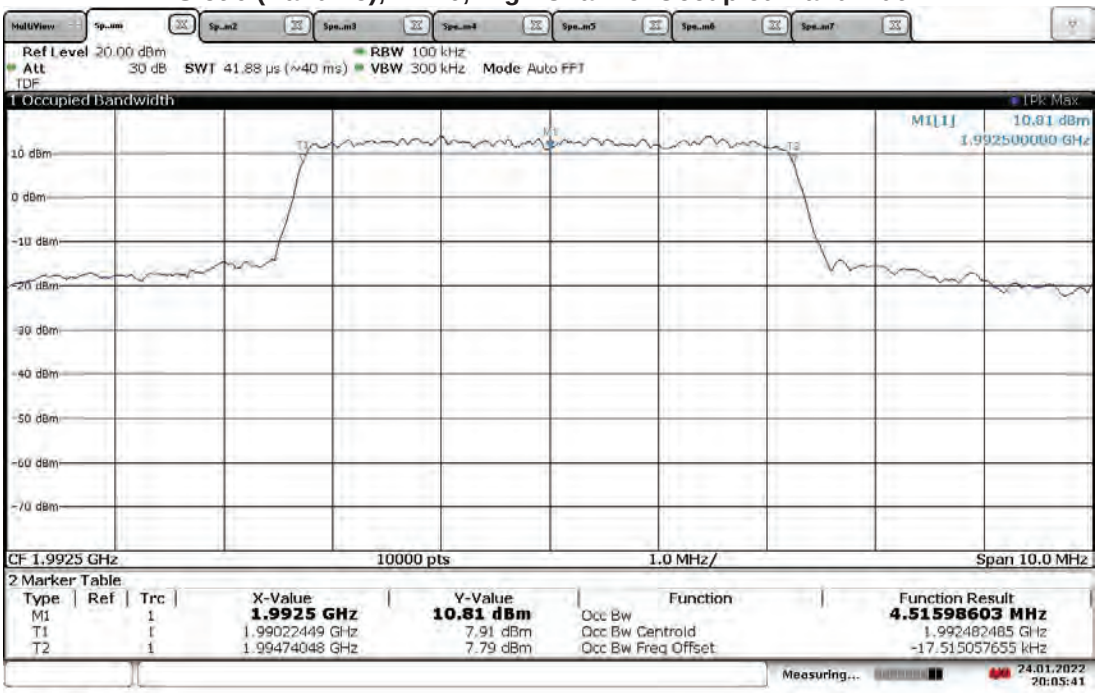
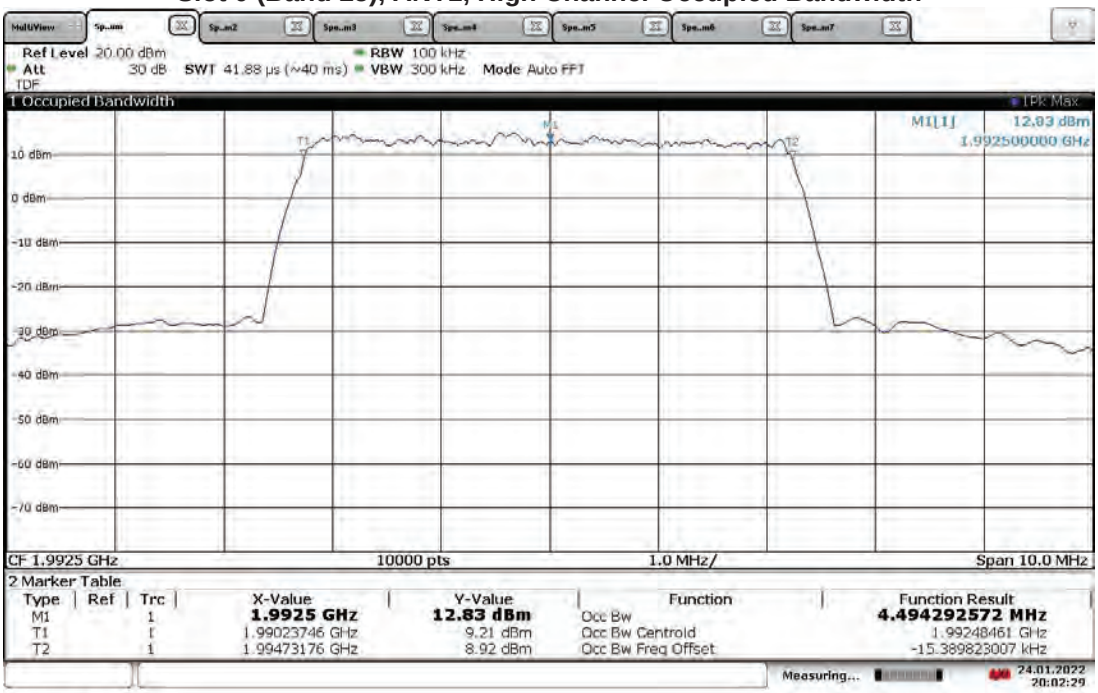
TM1.1-QPSK_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



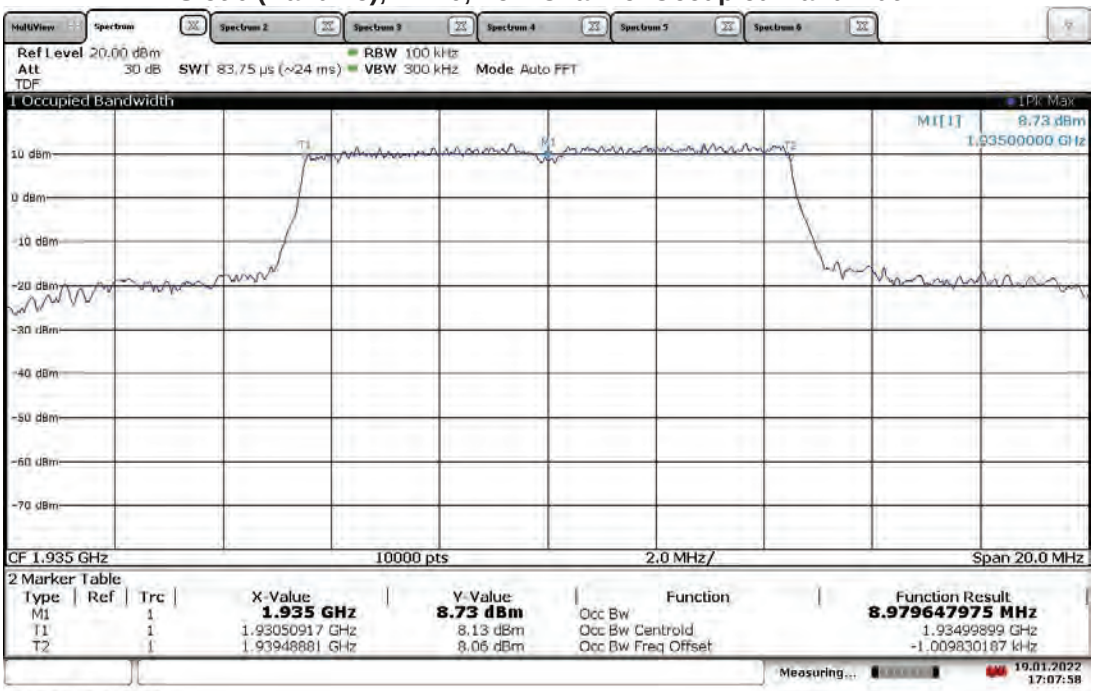
20:05:42 24.01.2022

TM1.1-QPSK_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



20:02:29 24.01.2022

TM1.1-QPSK_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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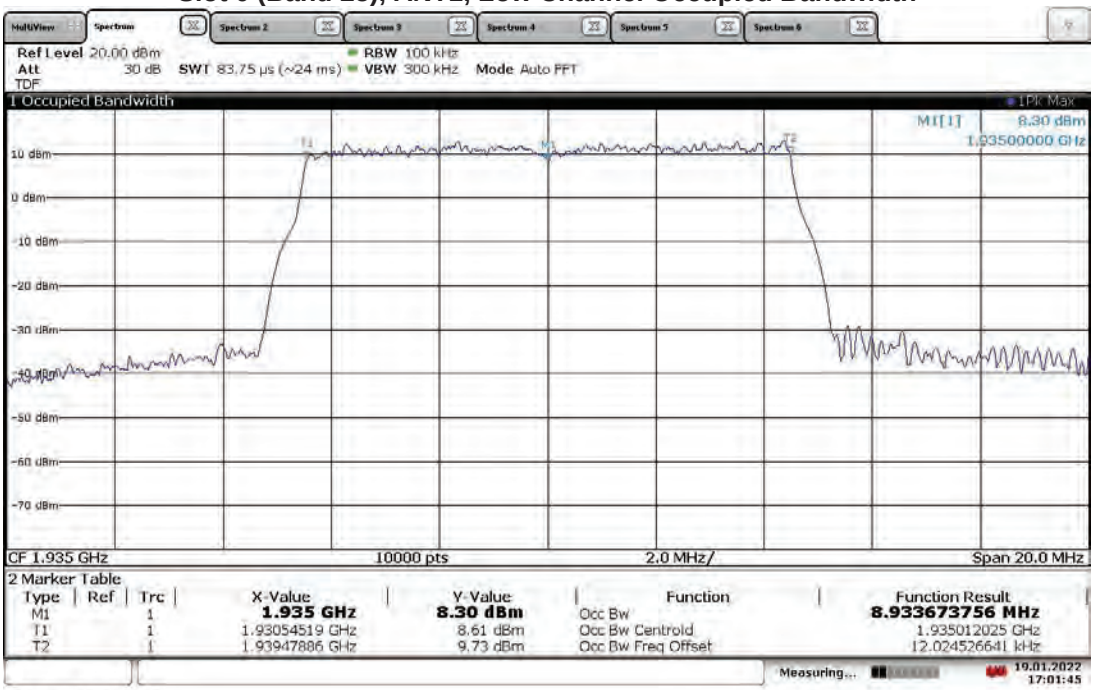
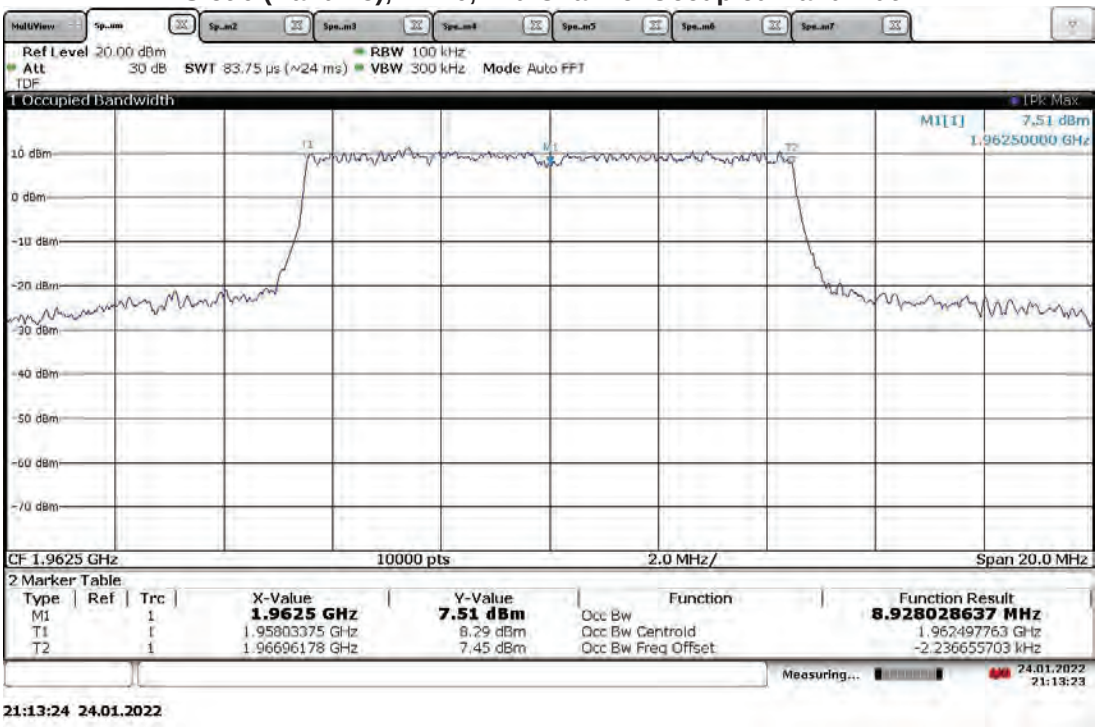
TM1.1-QPSK_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



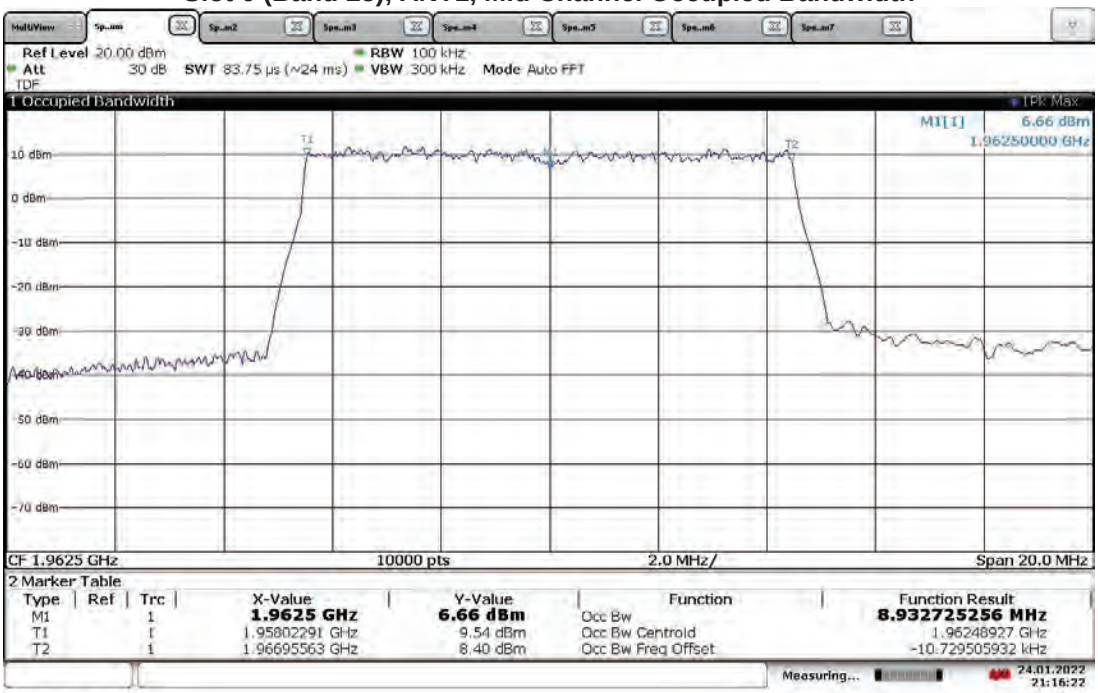
17:01:45 19.01.2022

TM1.1-QPSK_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



21:13:24 24.01.2022

TM1.1-QPSK_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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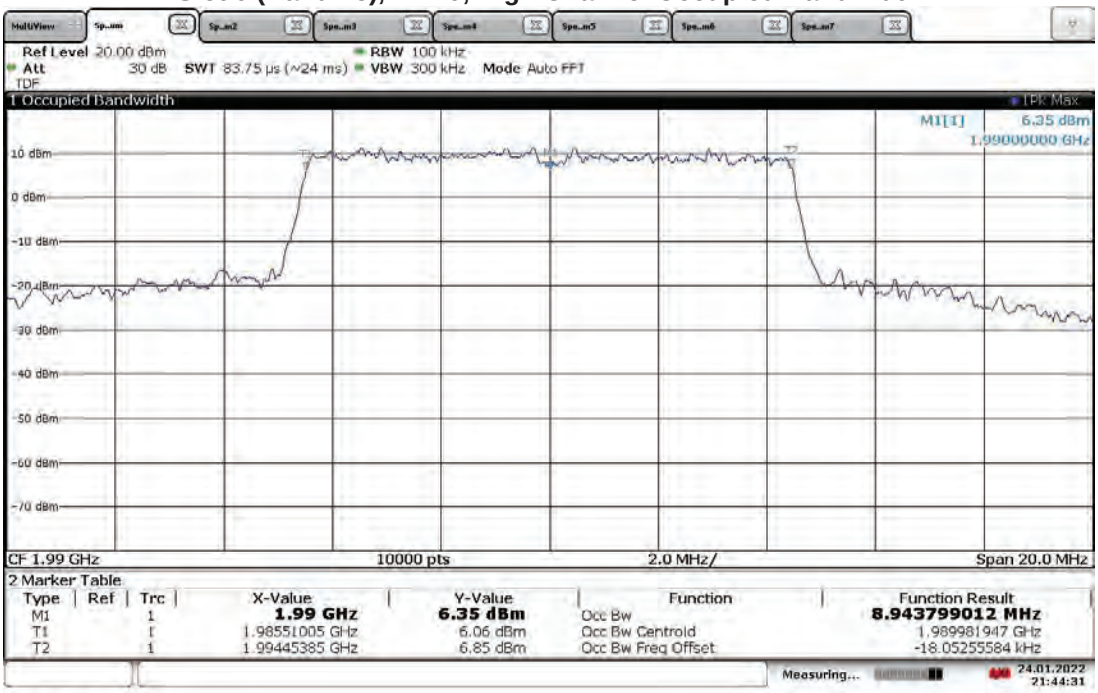
TM1.1-QPSK_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



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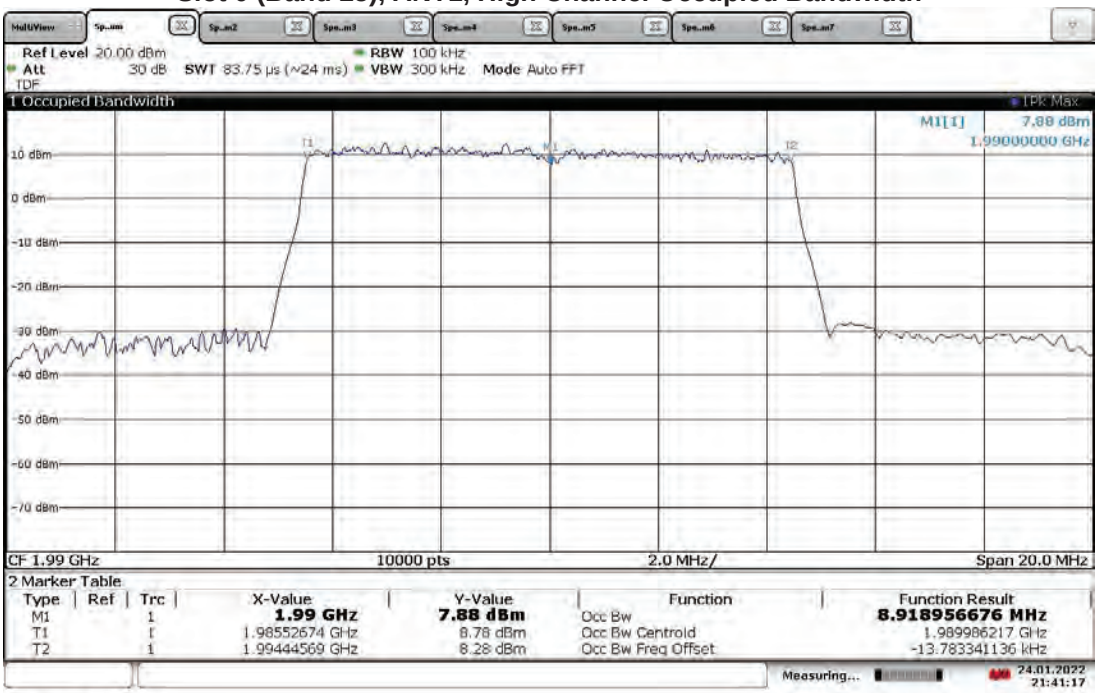
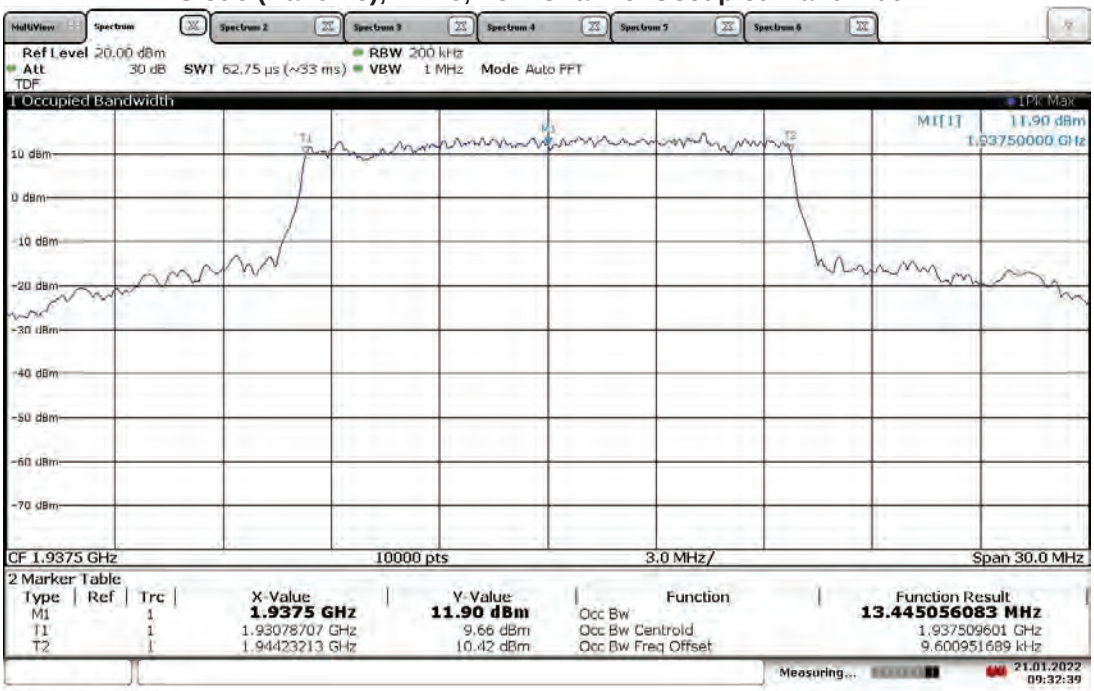
TM1.1-QPSK_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



21:41:17 24.01.2022

TM1.1-QPSK_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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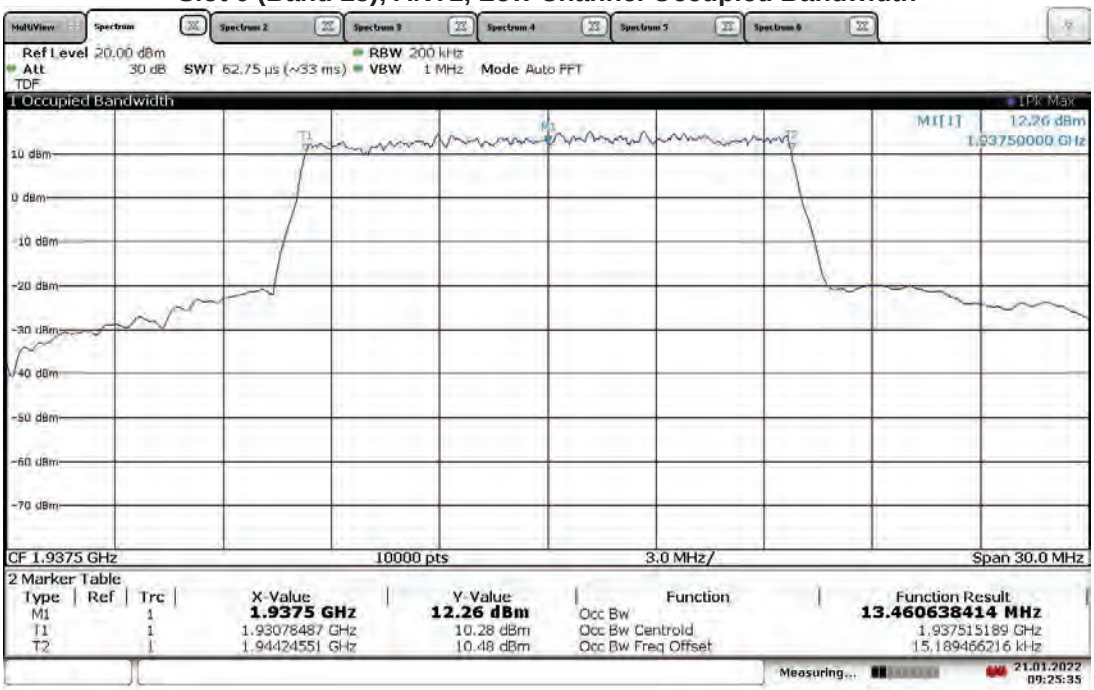
TM1.1-QPSK_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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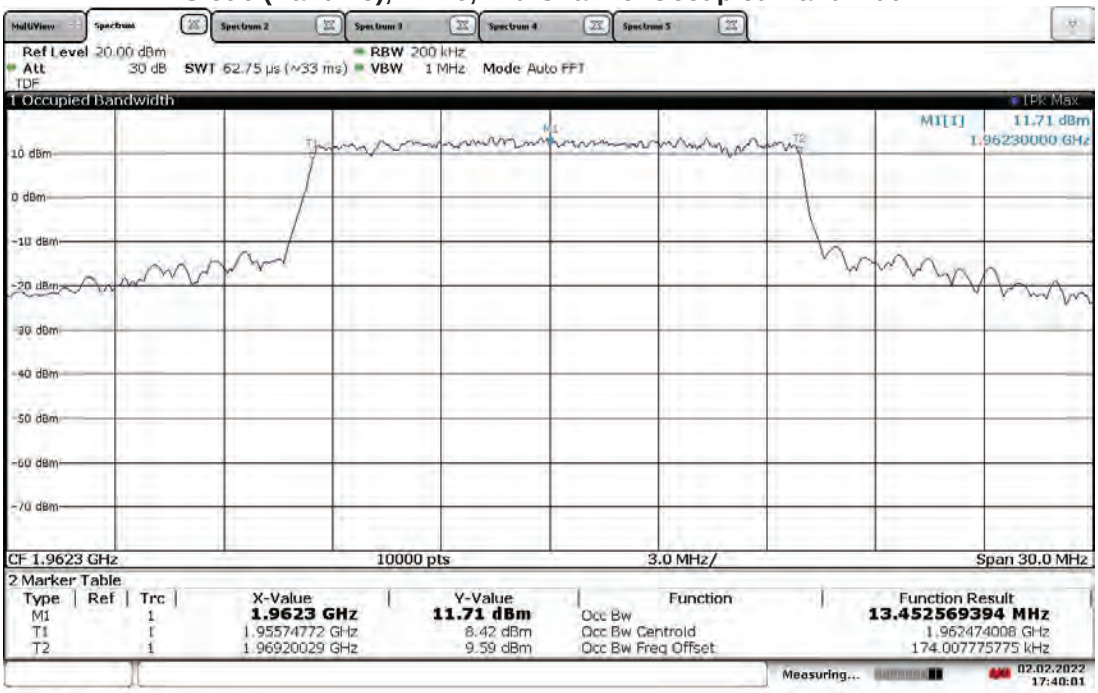
TM1.1-QPSK_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



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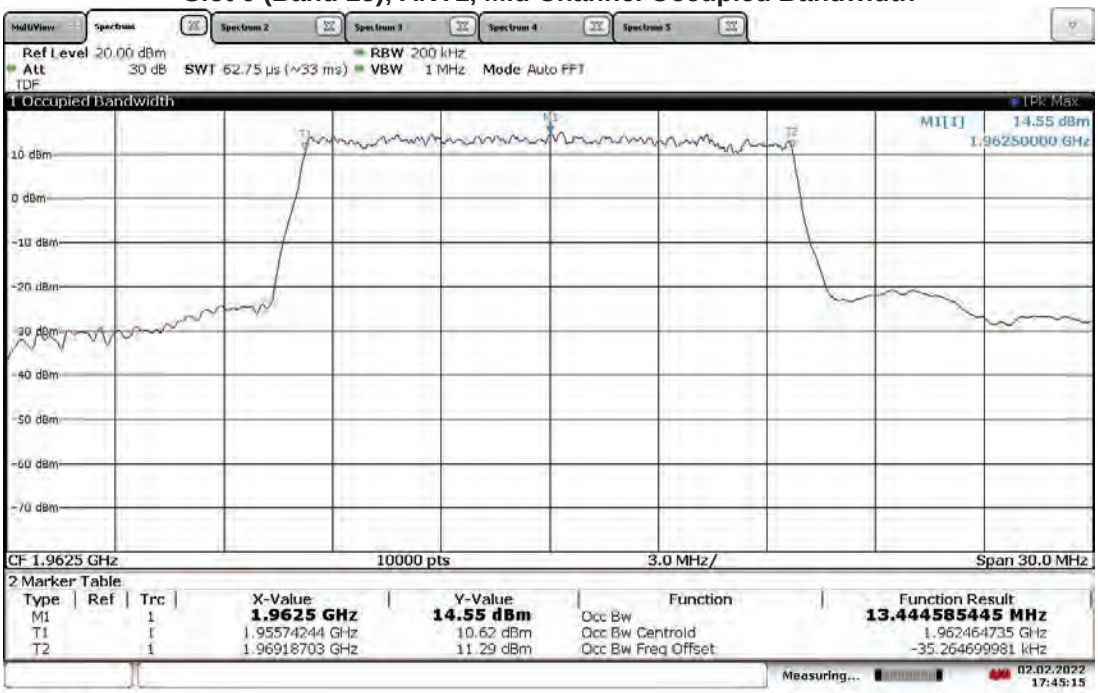
TM1.1-QPSK_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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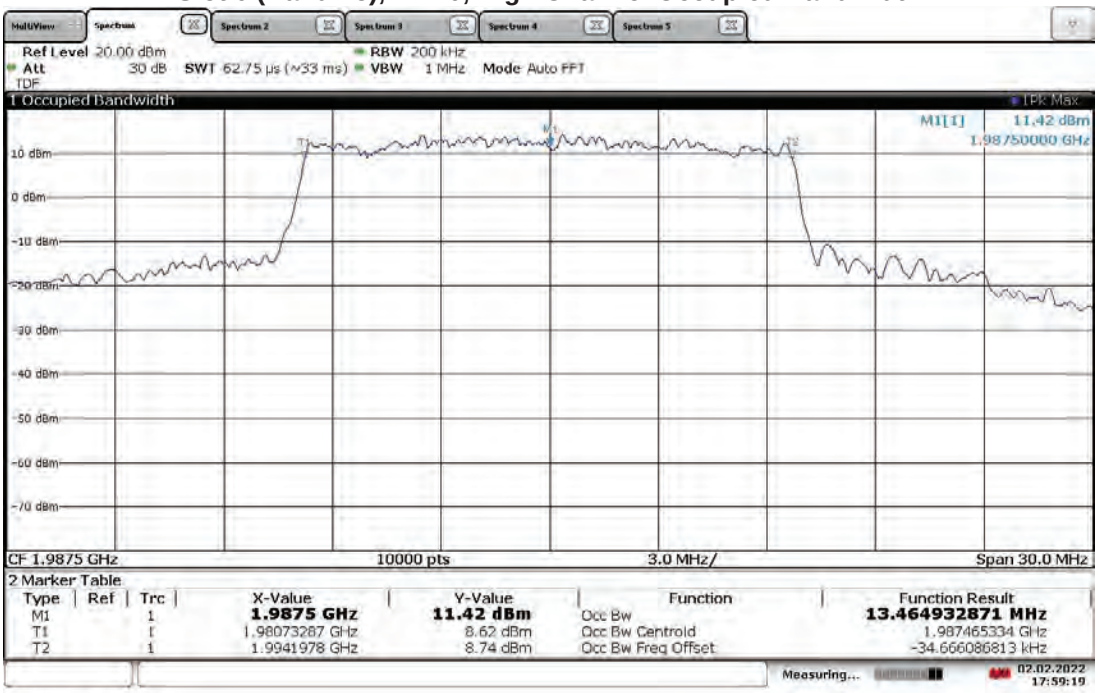
TM1.1-QPSK_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



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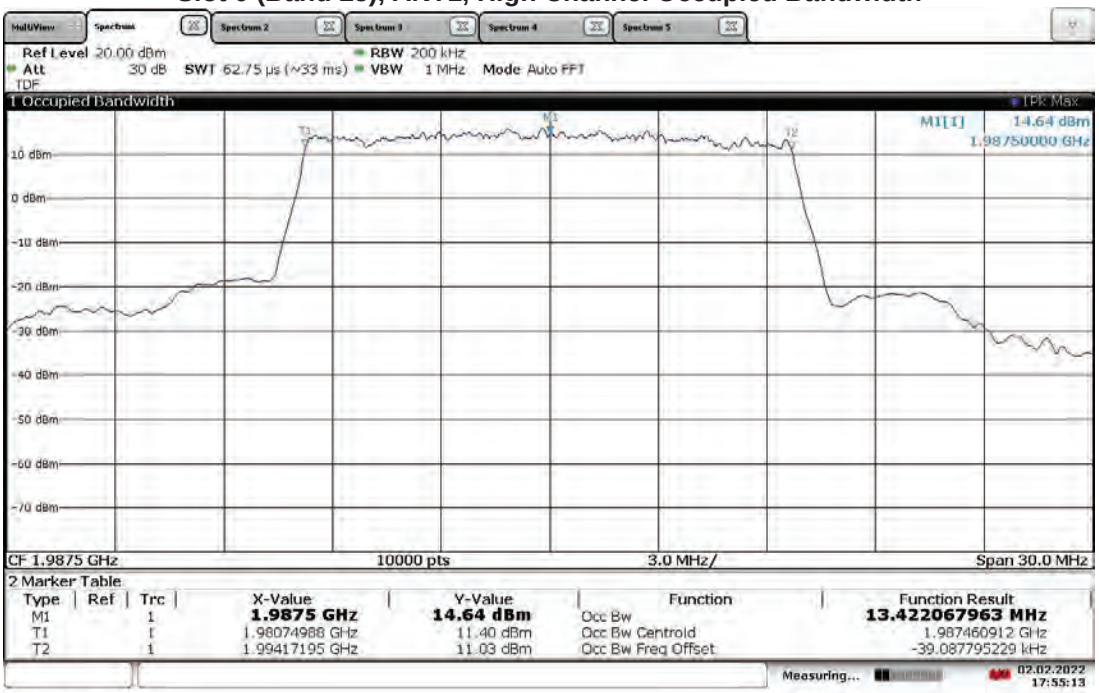
TM1.1-QPSK_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



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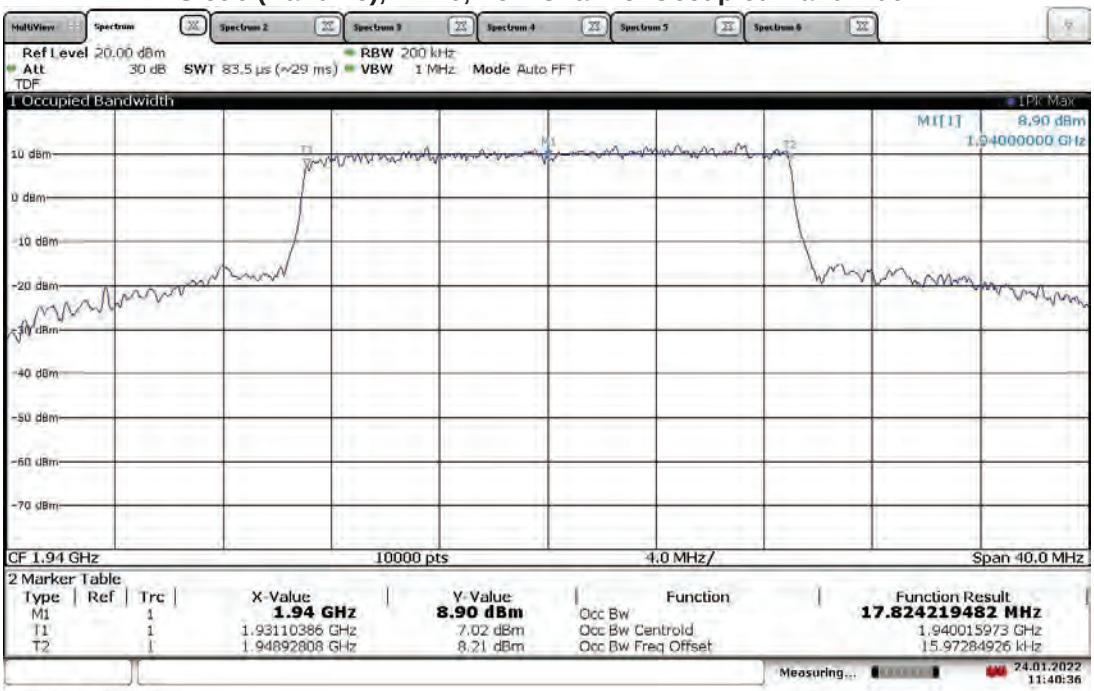
TM1.1-QPSK_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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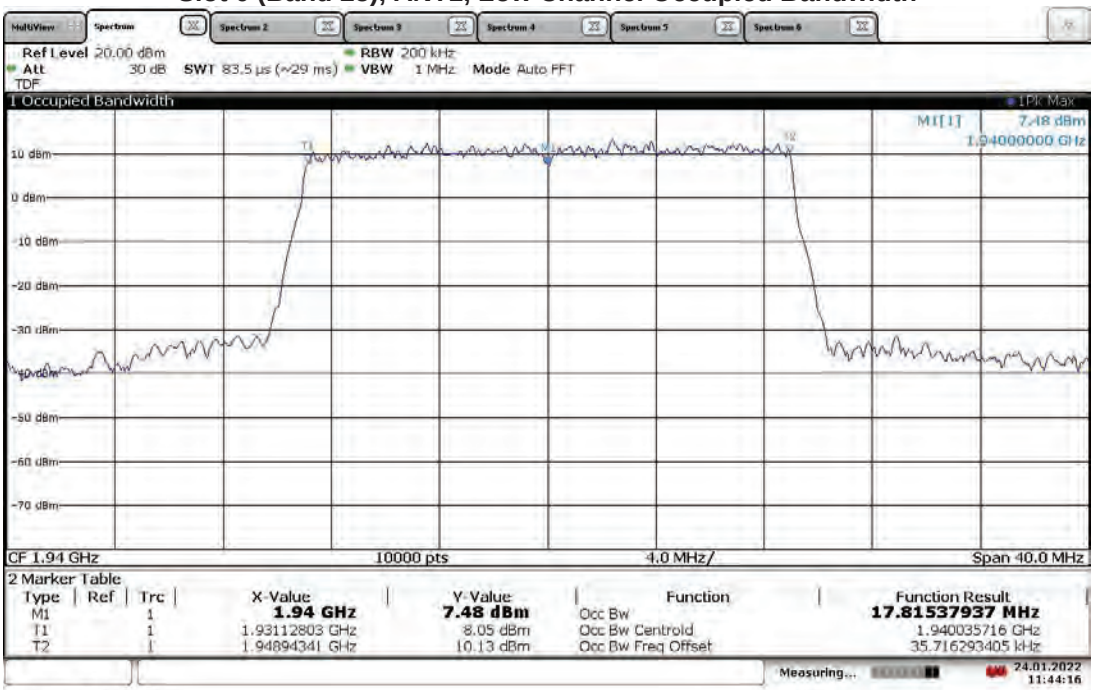
TM1.1-QPSK_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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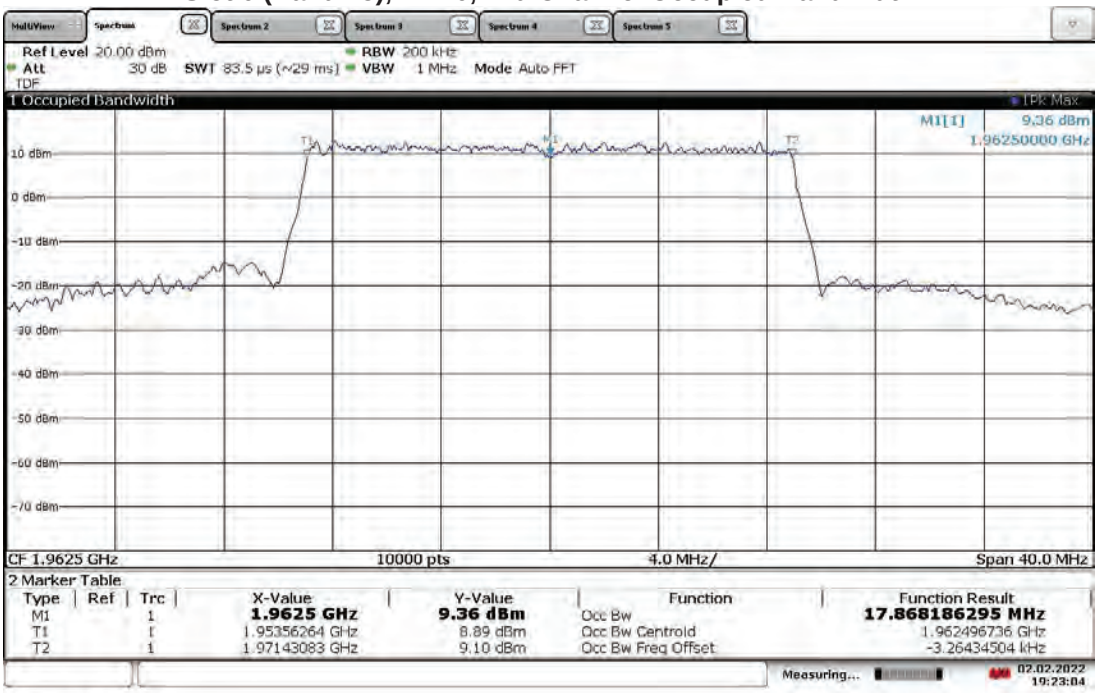
TM1.1-QPSK_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



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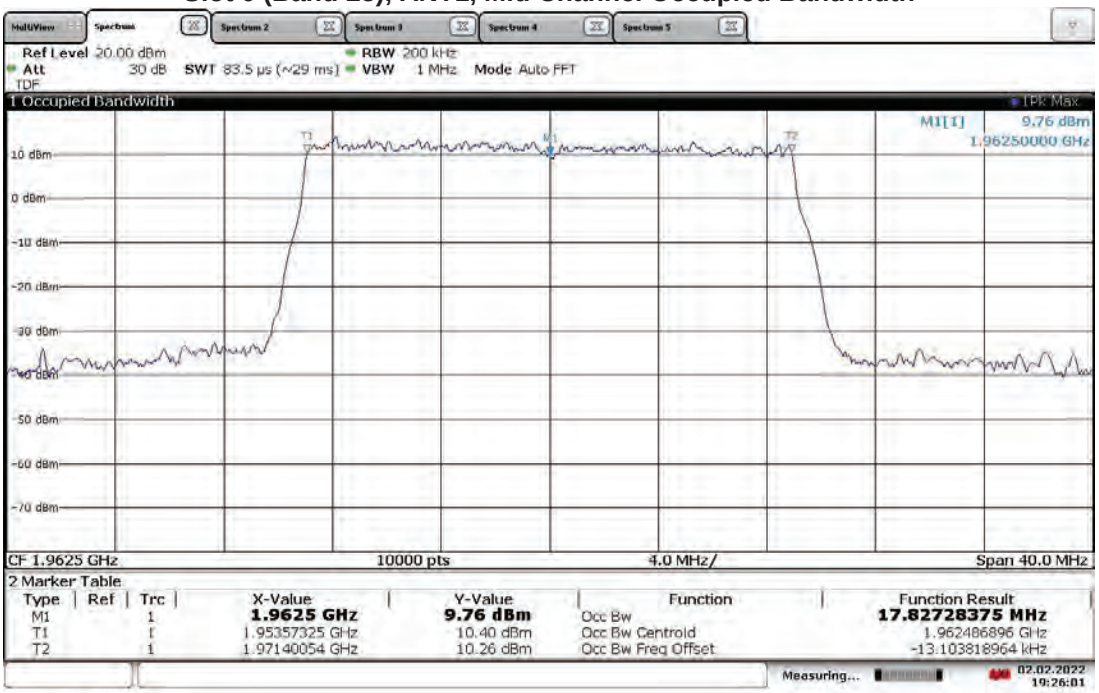
TM1.1-QPSK_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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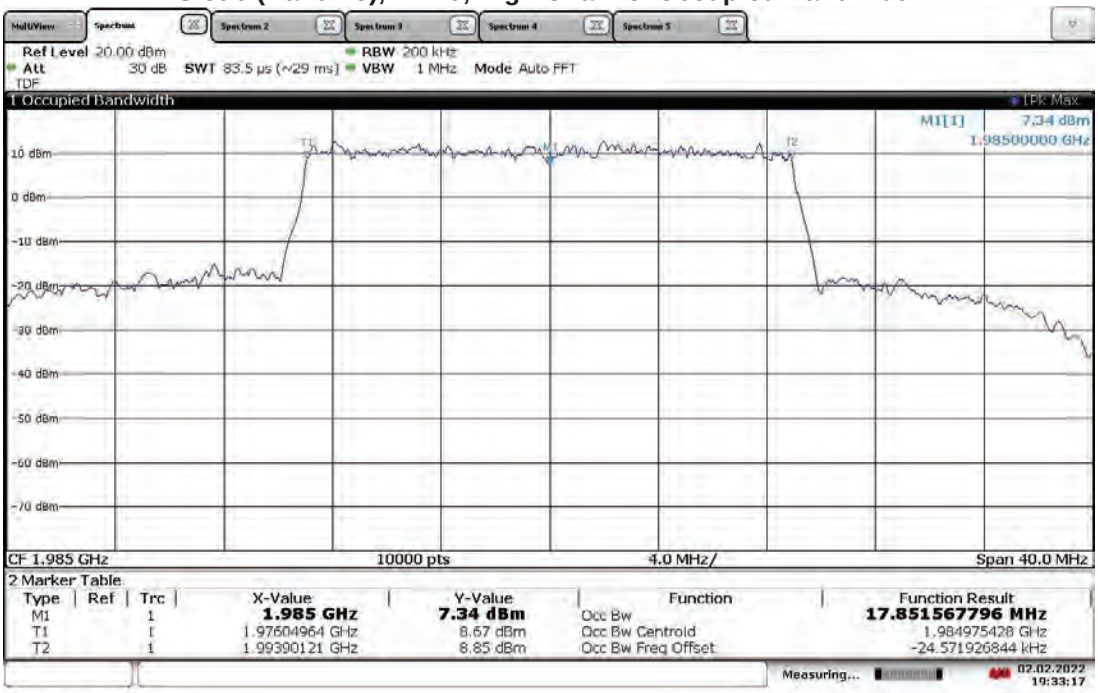
TM1.1-QPSK_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



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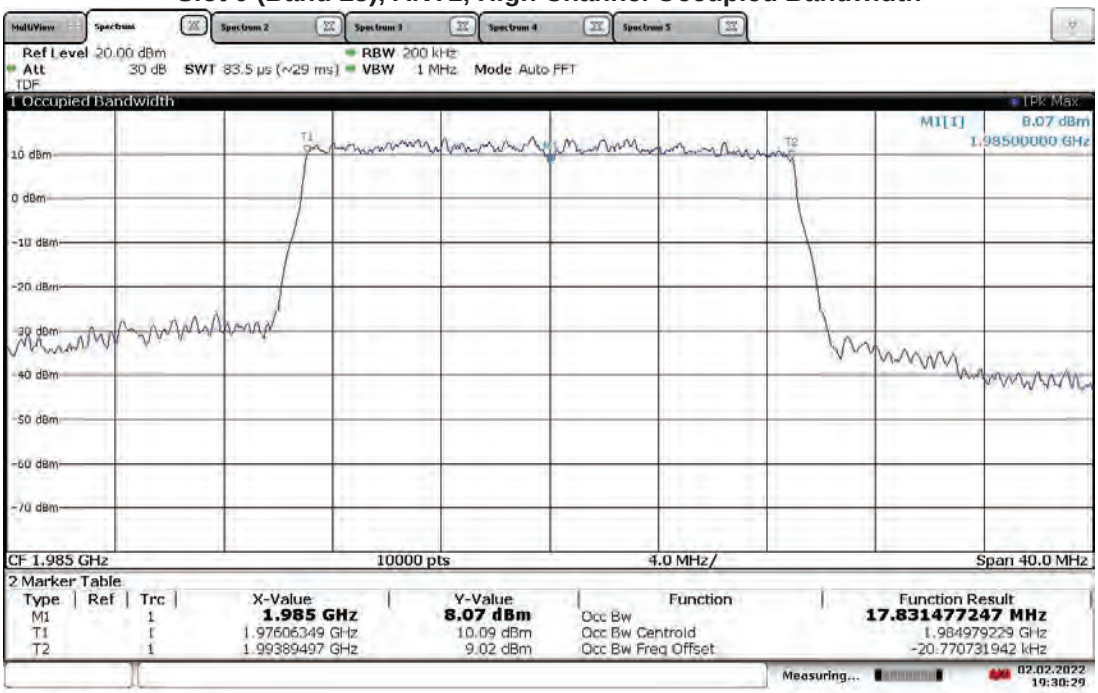
TM1.1-QPSK_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



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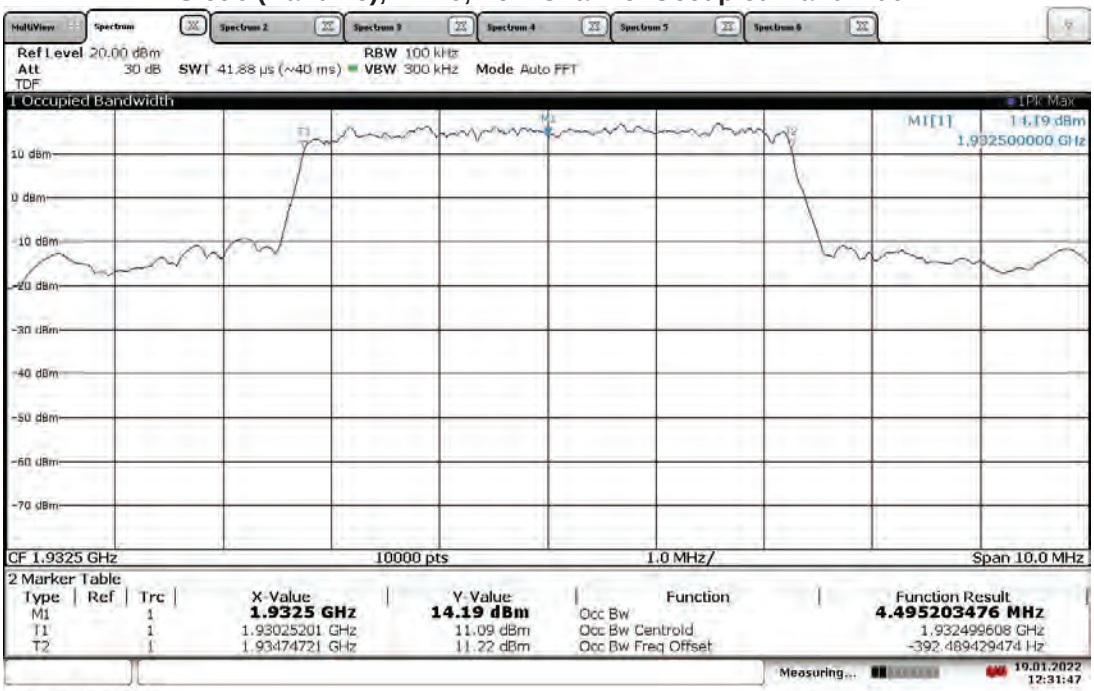
TM3.2-16QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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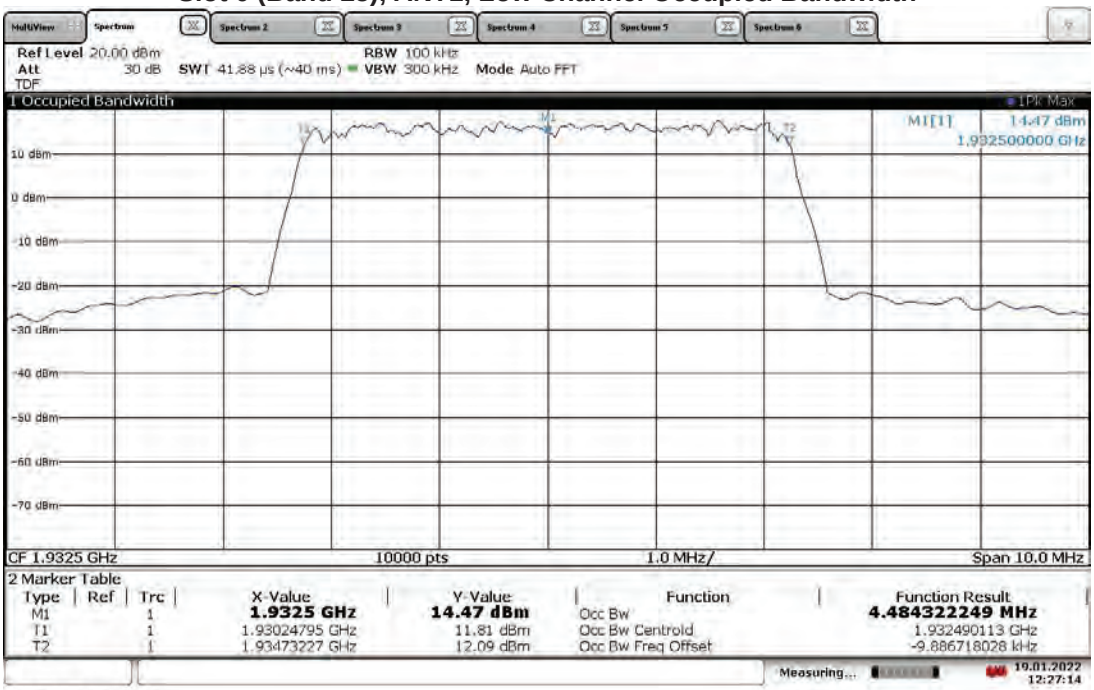
TM3.2-16QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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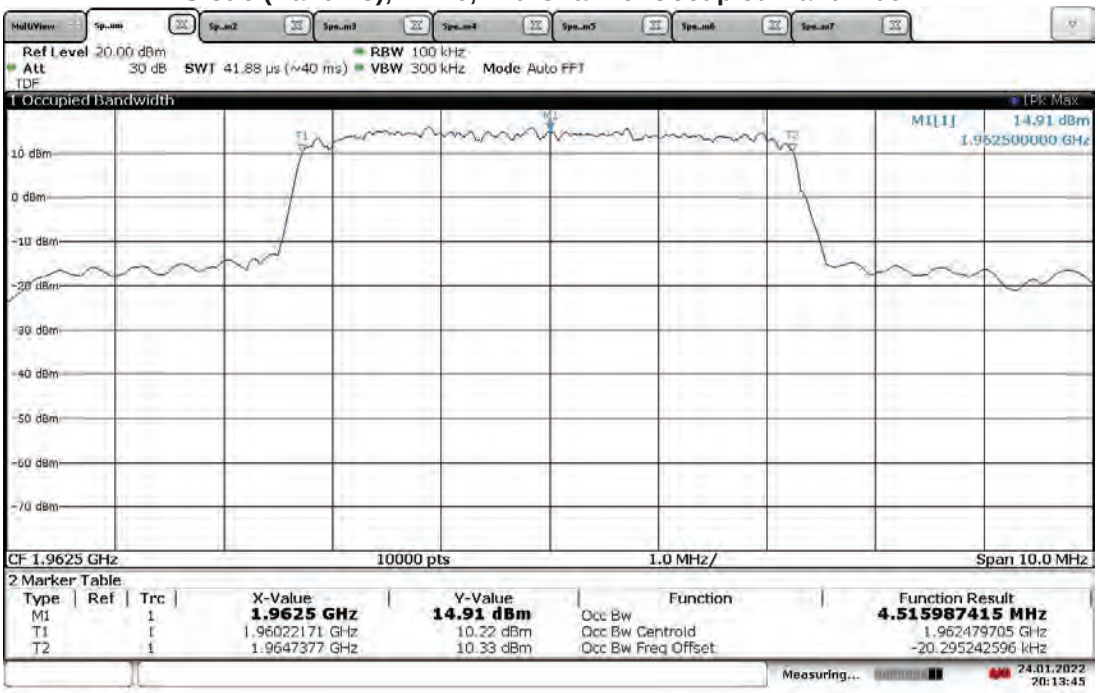
TM3.2-16QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



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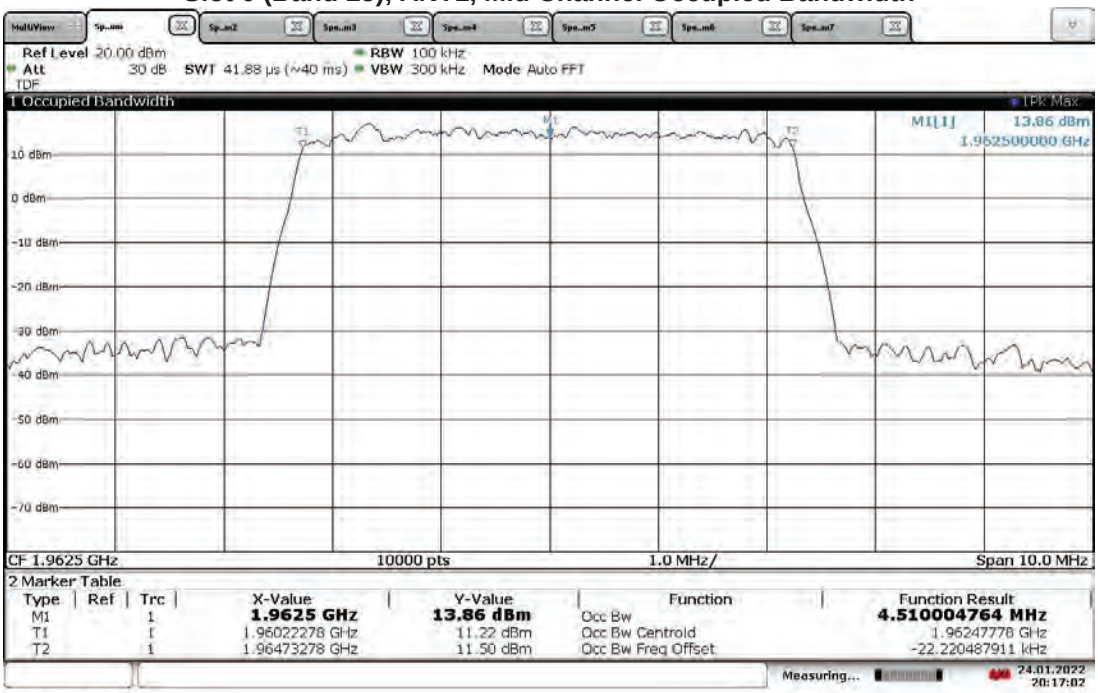
TM3.2-16QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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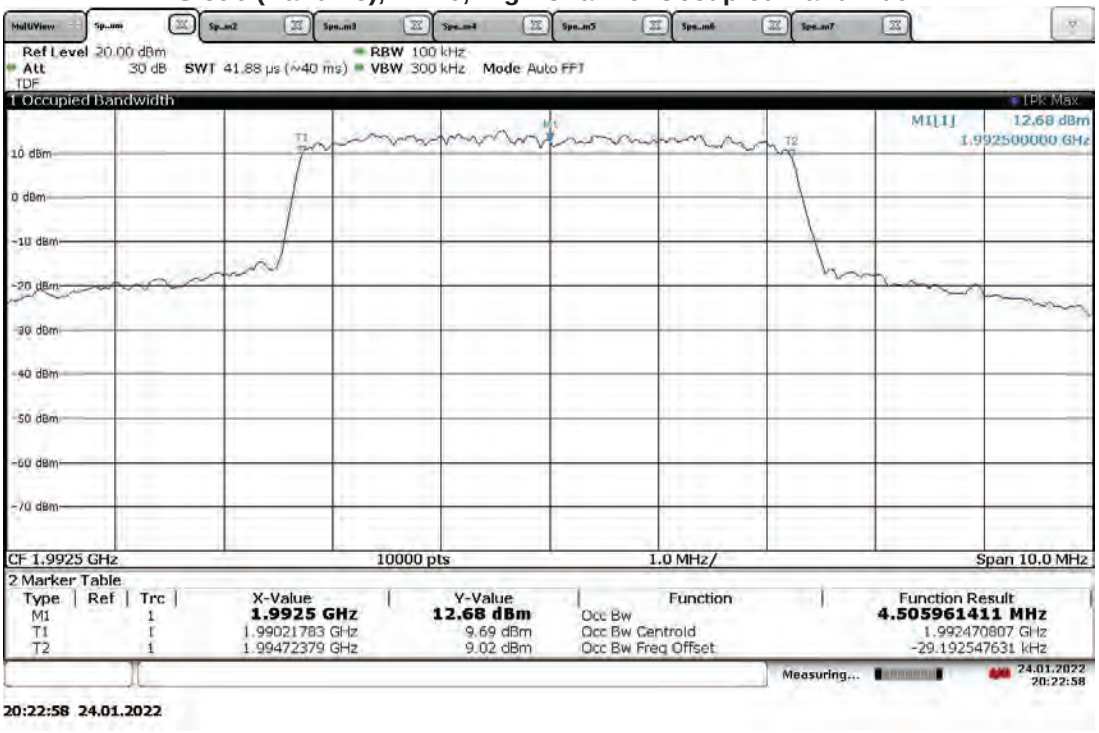
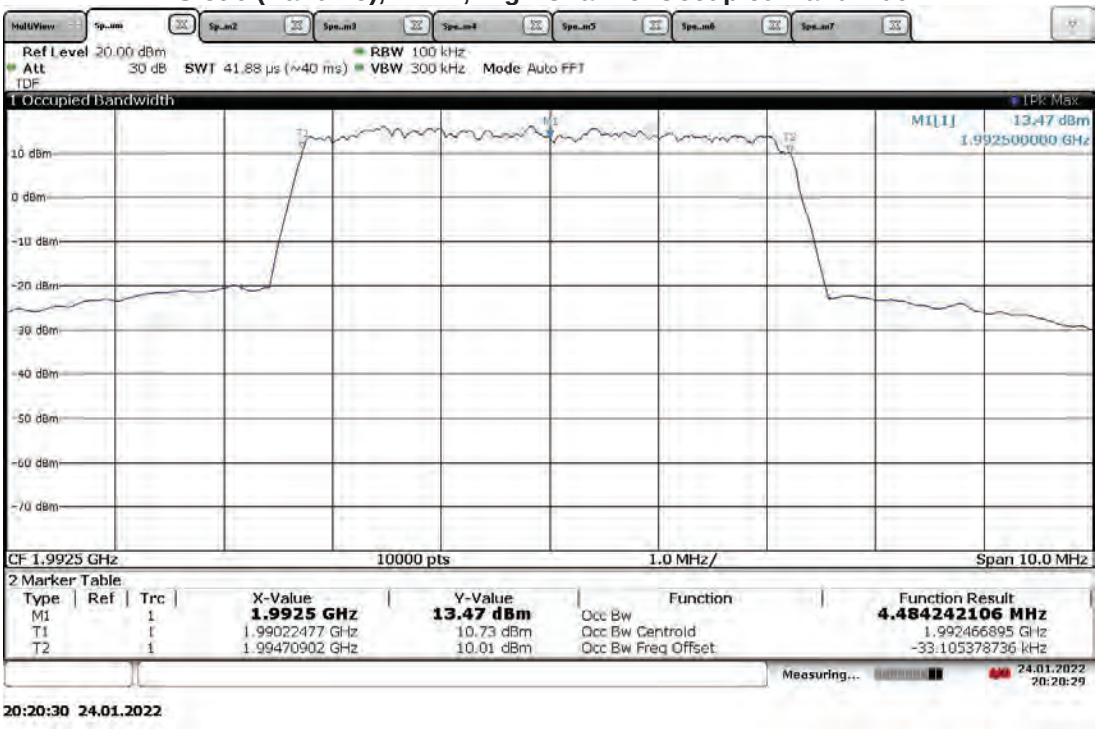
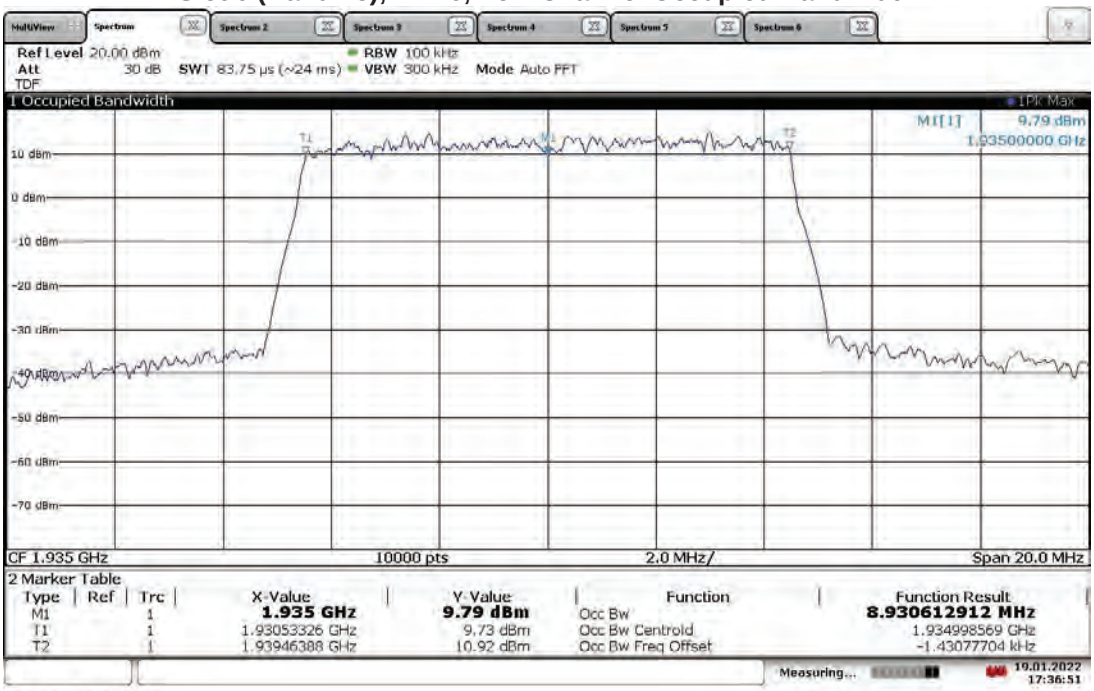
TM3.2-16QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



TM3.2-16QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



TM3.2-16QAM_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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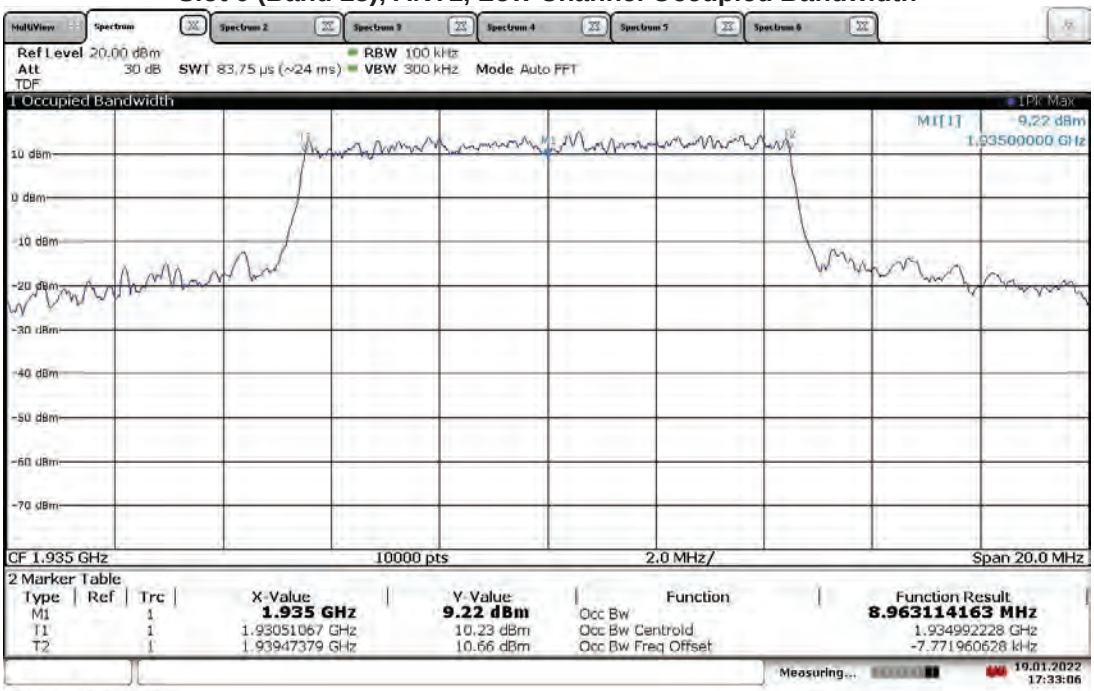
TM3.2-16QAM_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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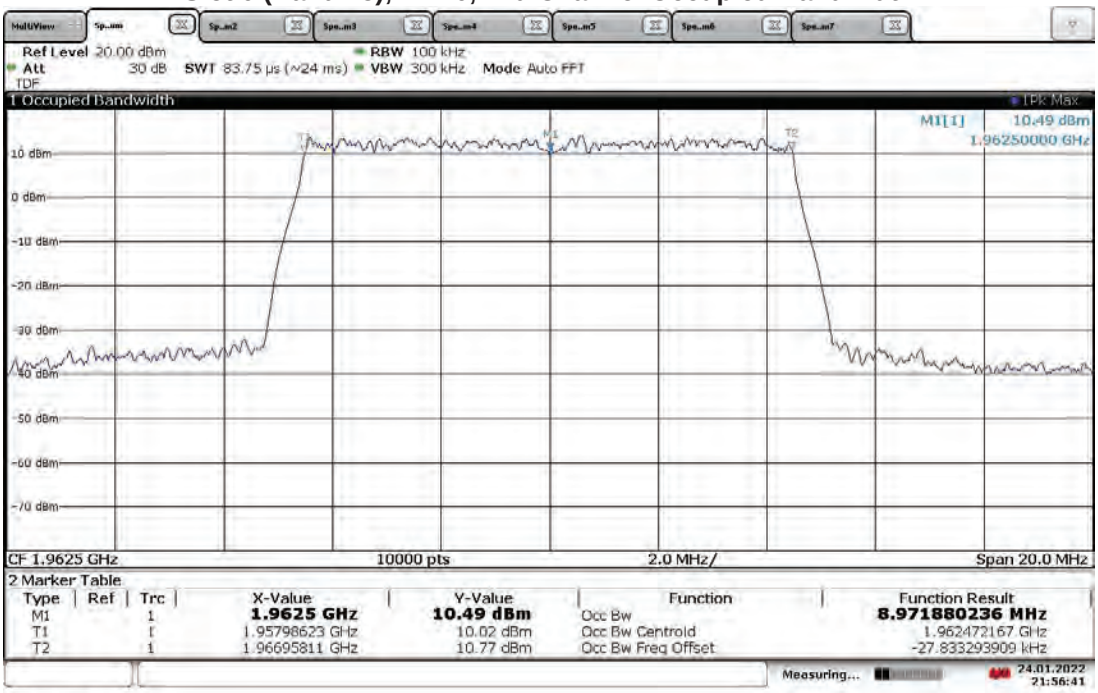
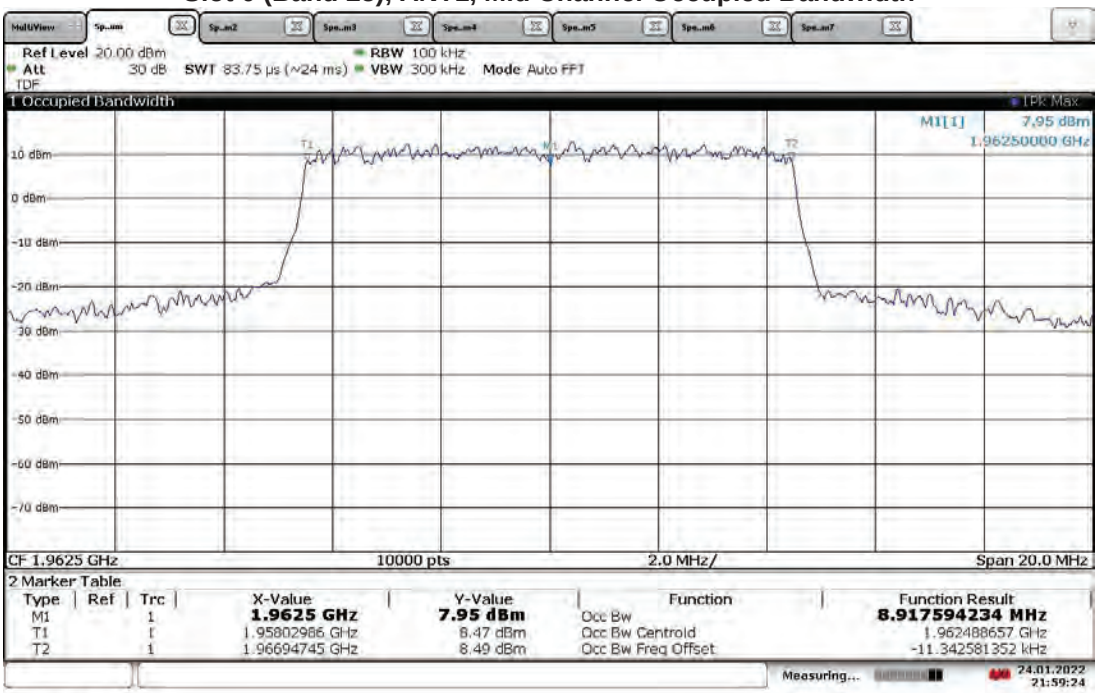
TM3.2-16QAM_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



21:56:42 24.01.2022

TM3.2-16QAM_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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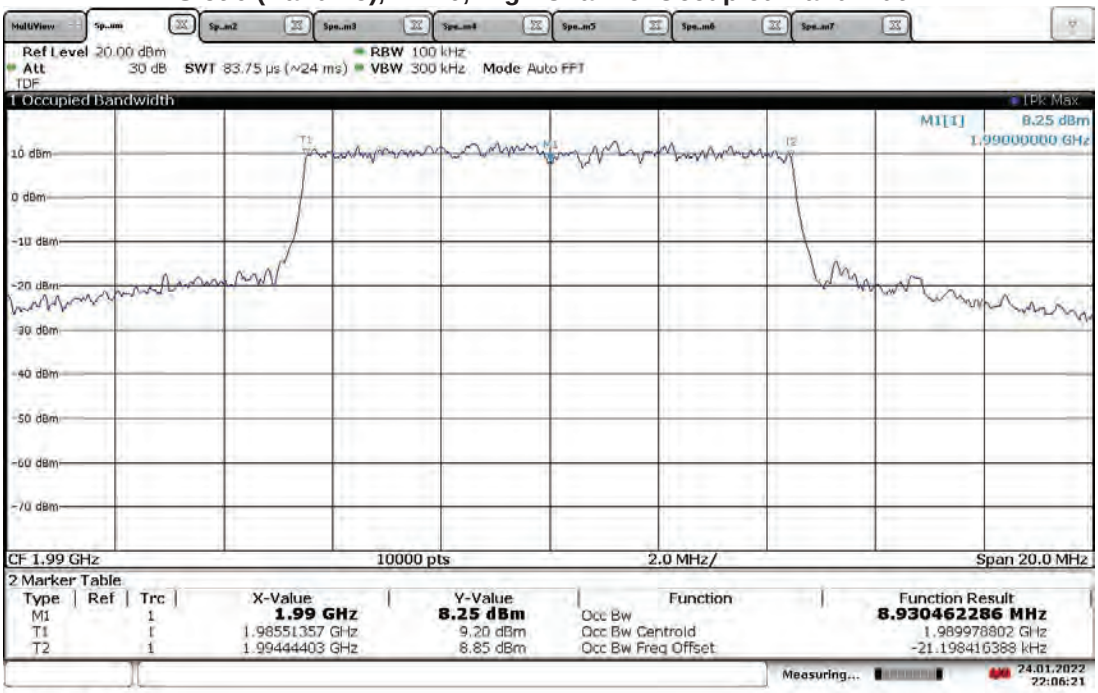
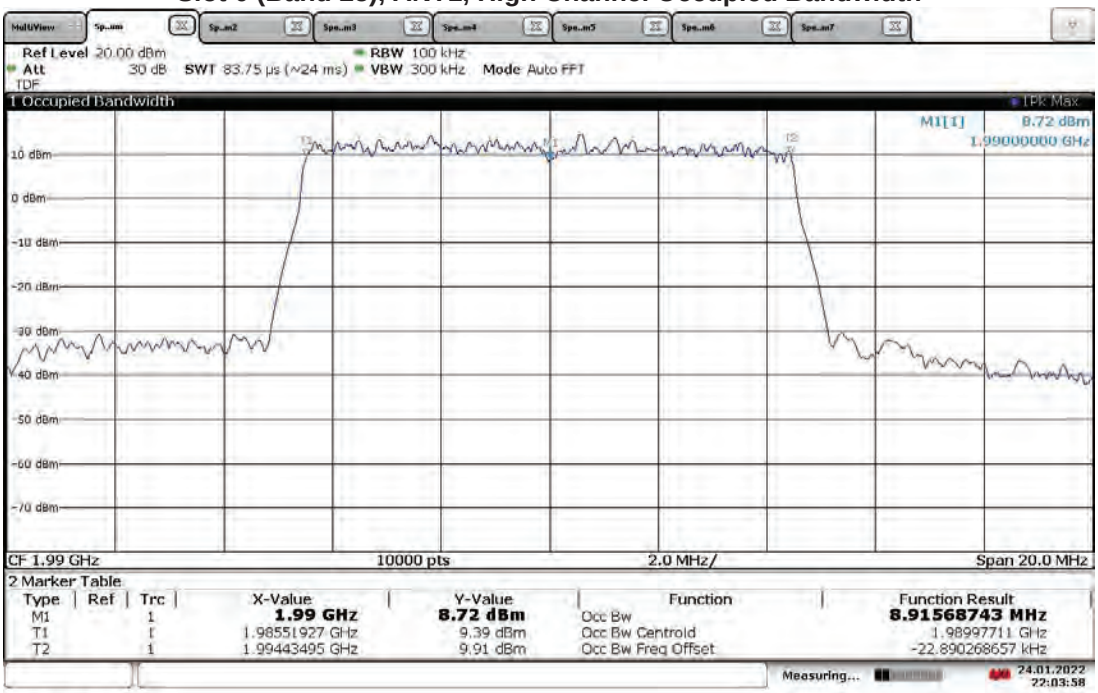
TM3.2-16QAM_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



22:06:21 24.01.2022

TM3.2-16QAM_10 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



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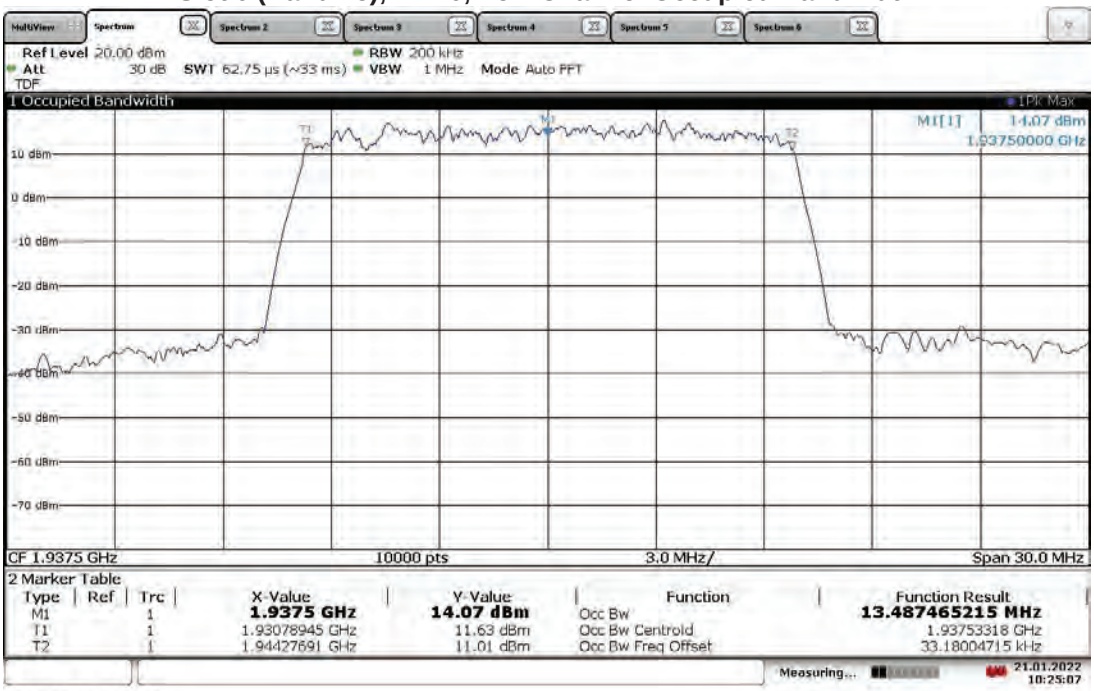
TM3.2-16QAM_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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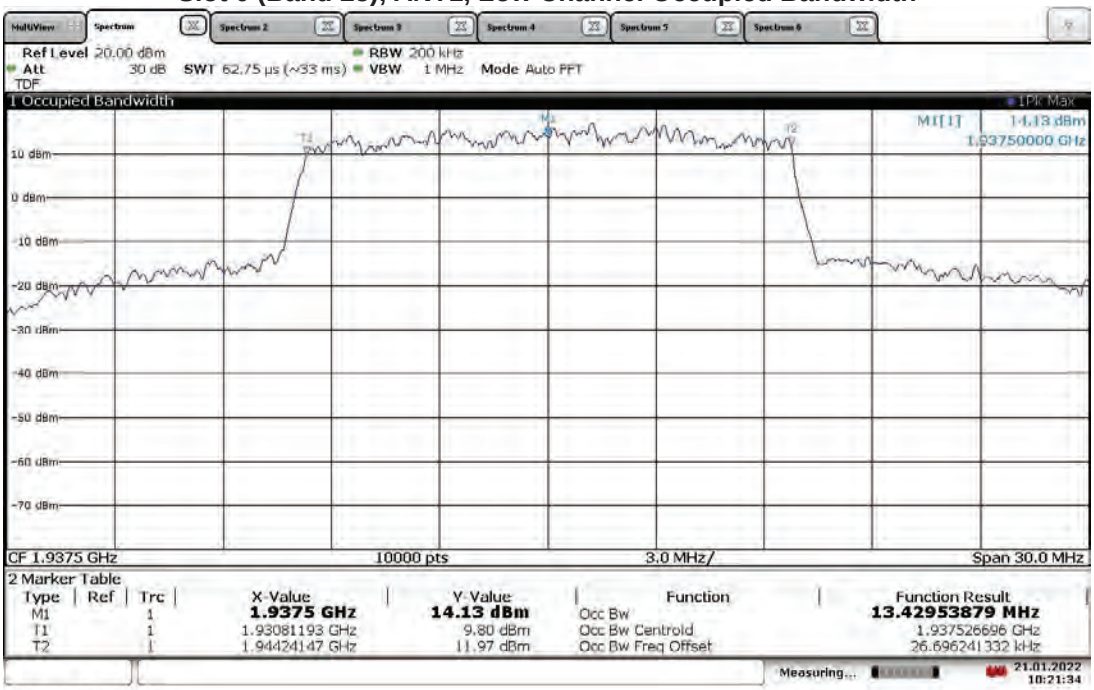
TM3.2-16QAM_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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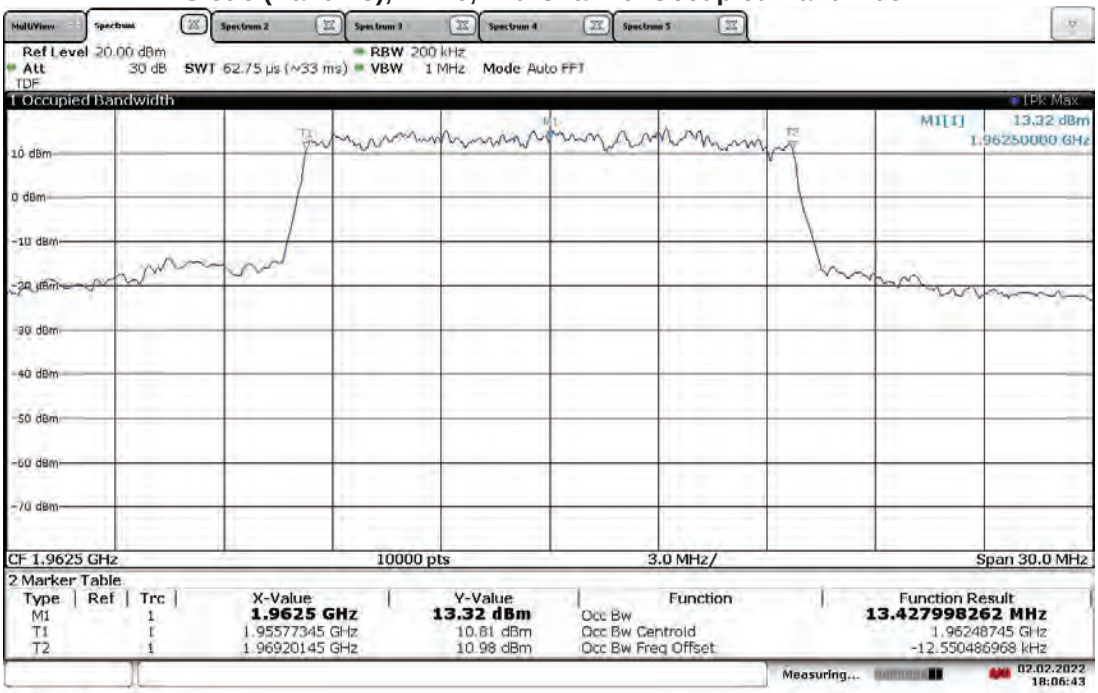
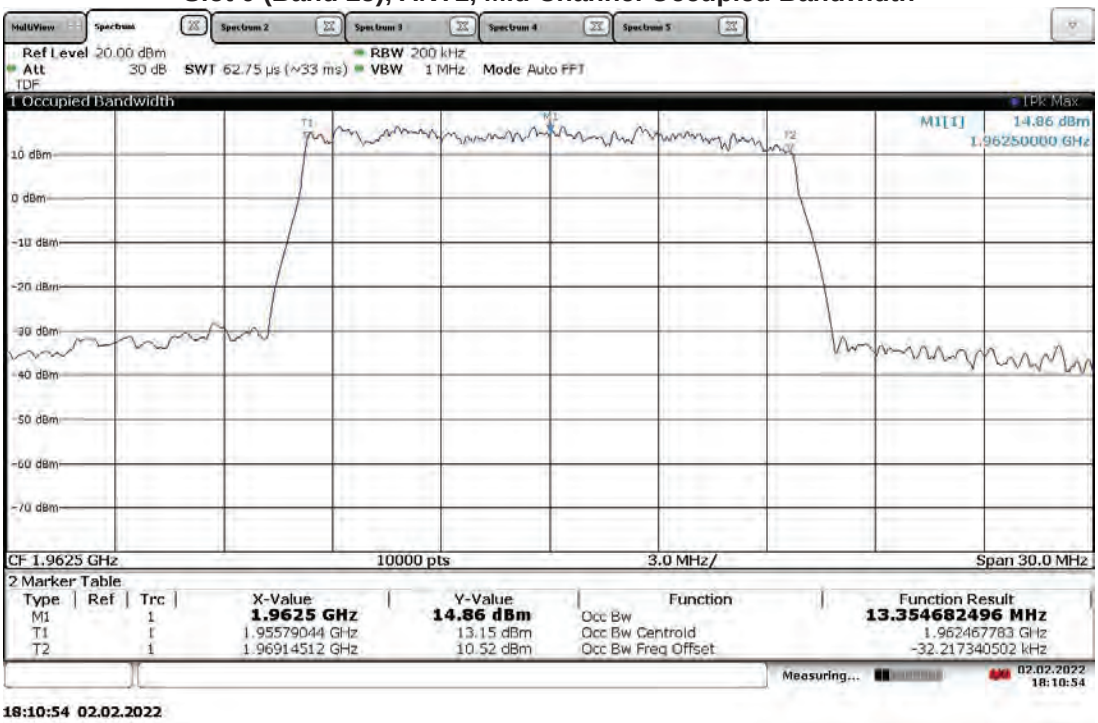
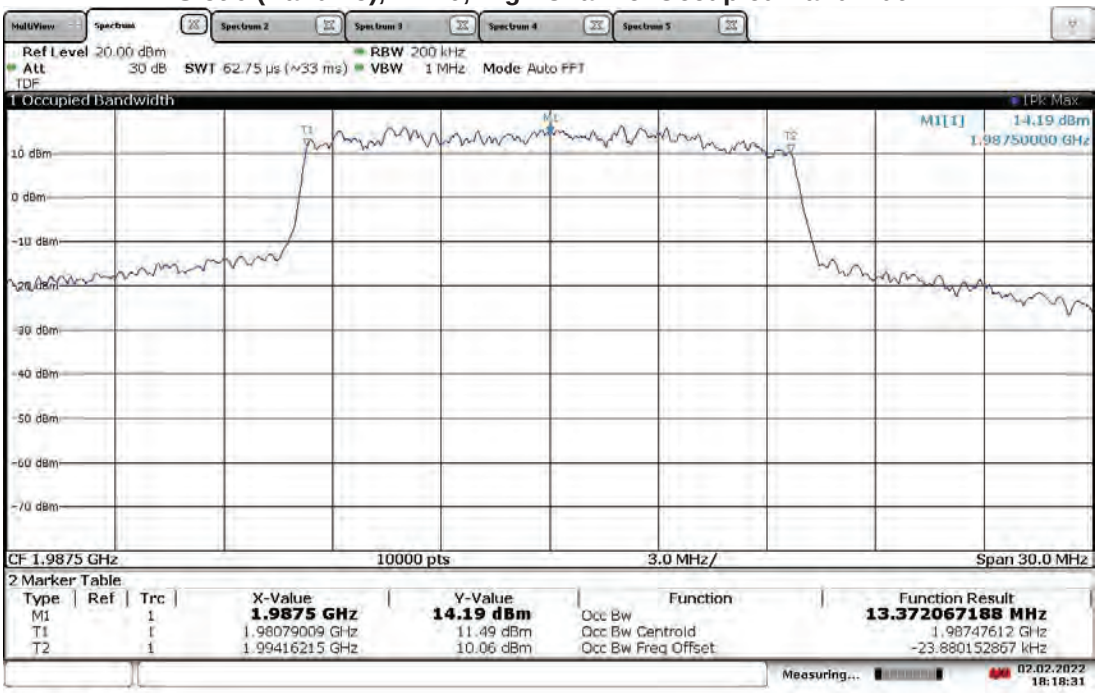
TM3.2-16QAM_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



TM3.2-16QAM_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth

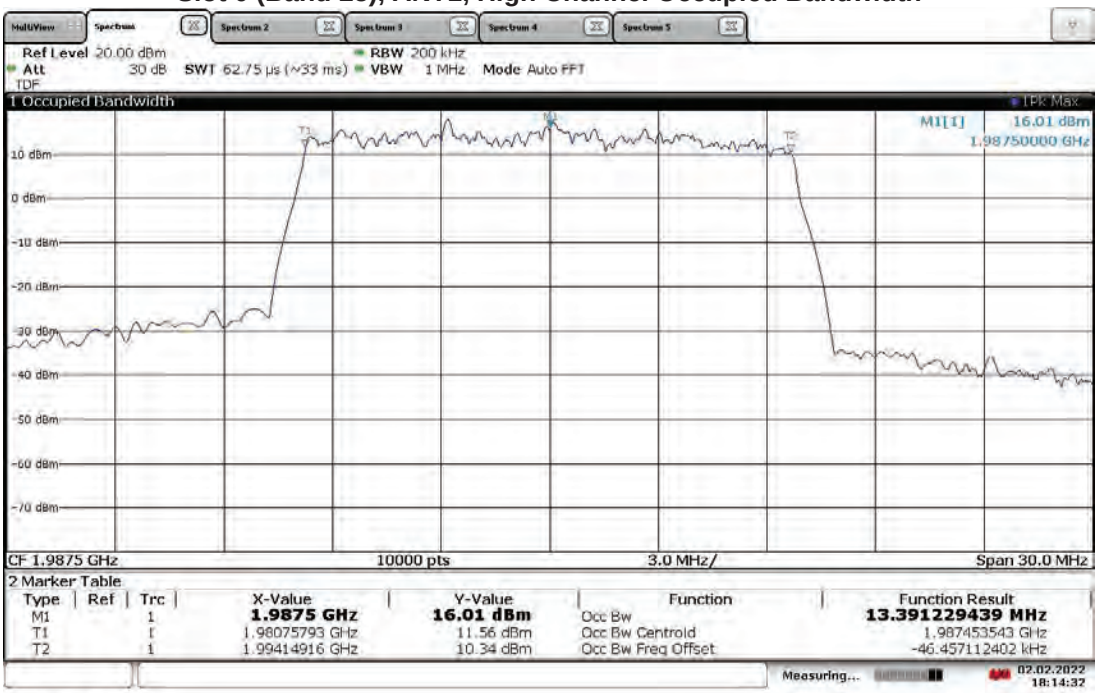


TM3.2-16QAM_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



18:18:31 02.02.2022

TM3.2-16QAM_15 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



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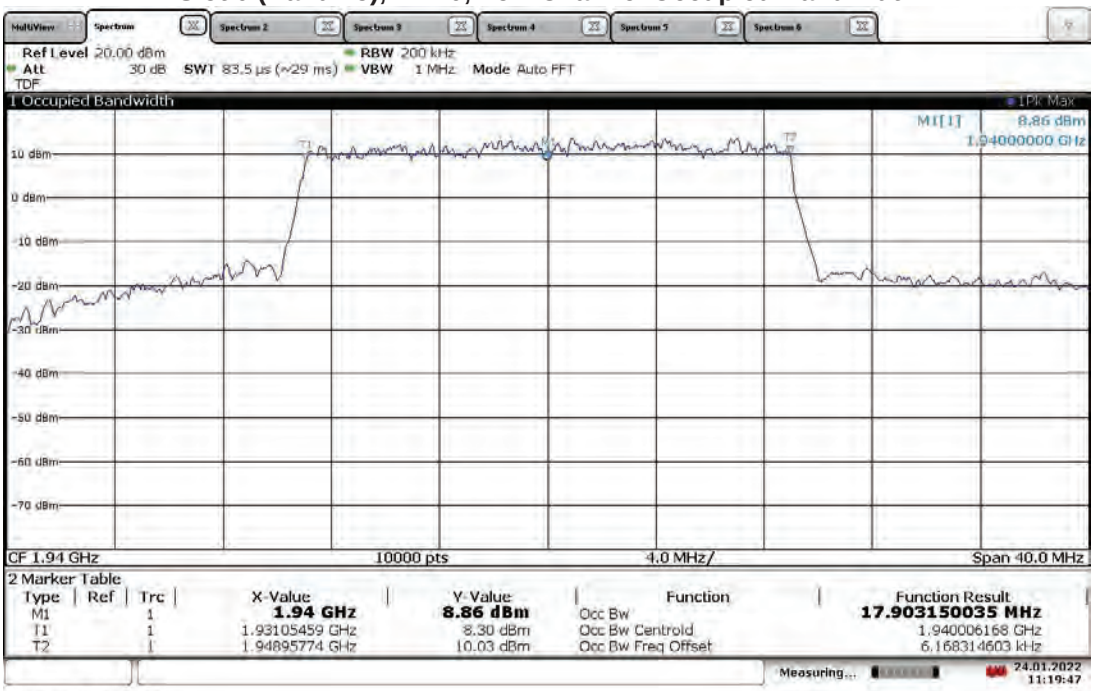
TM3.2-16QAM_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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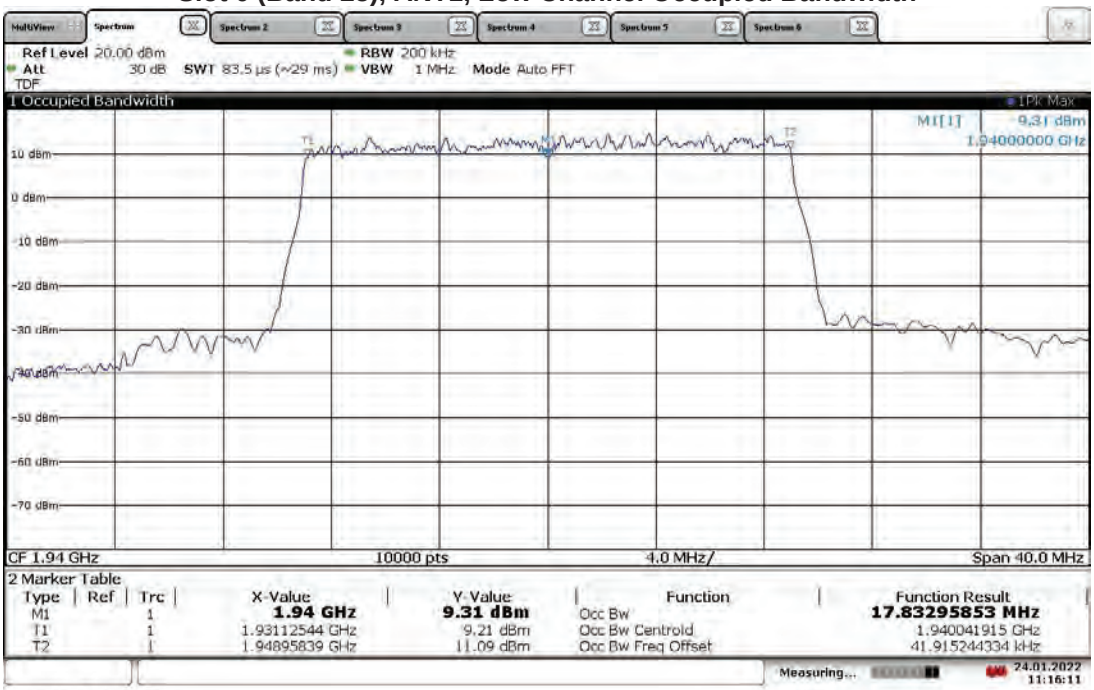
TM3.2-16QAM_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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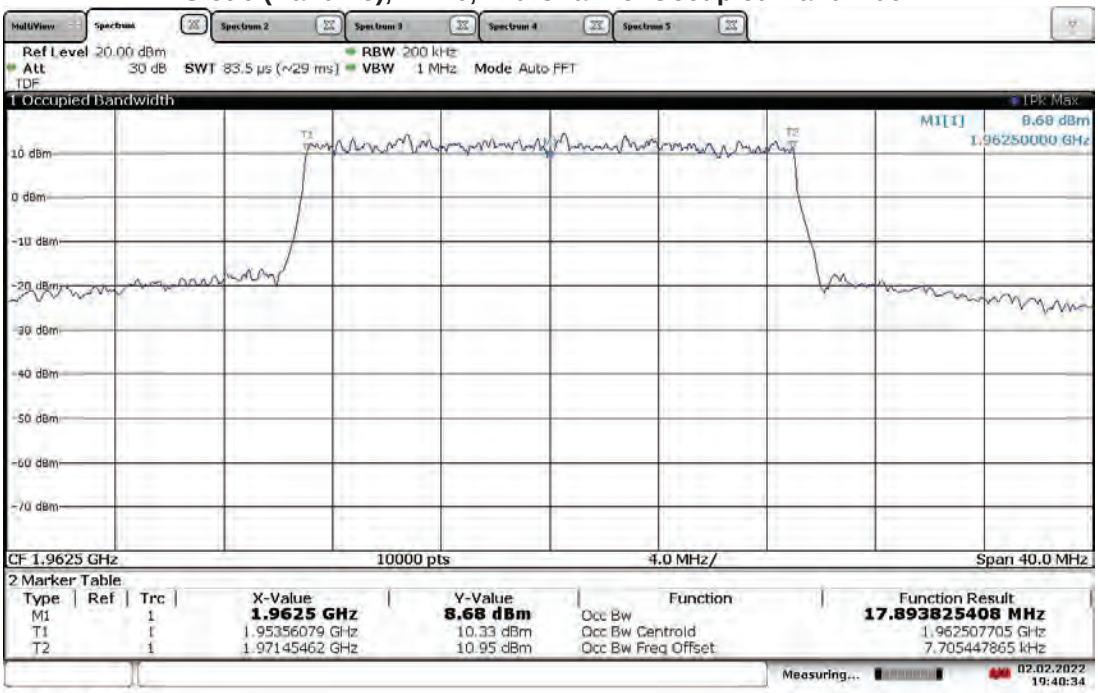
TM3.2-16QAM_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



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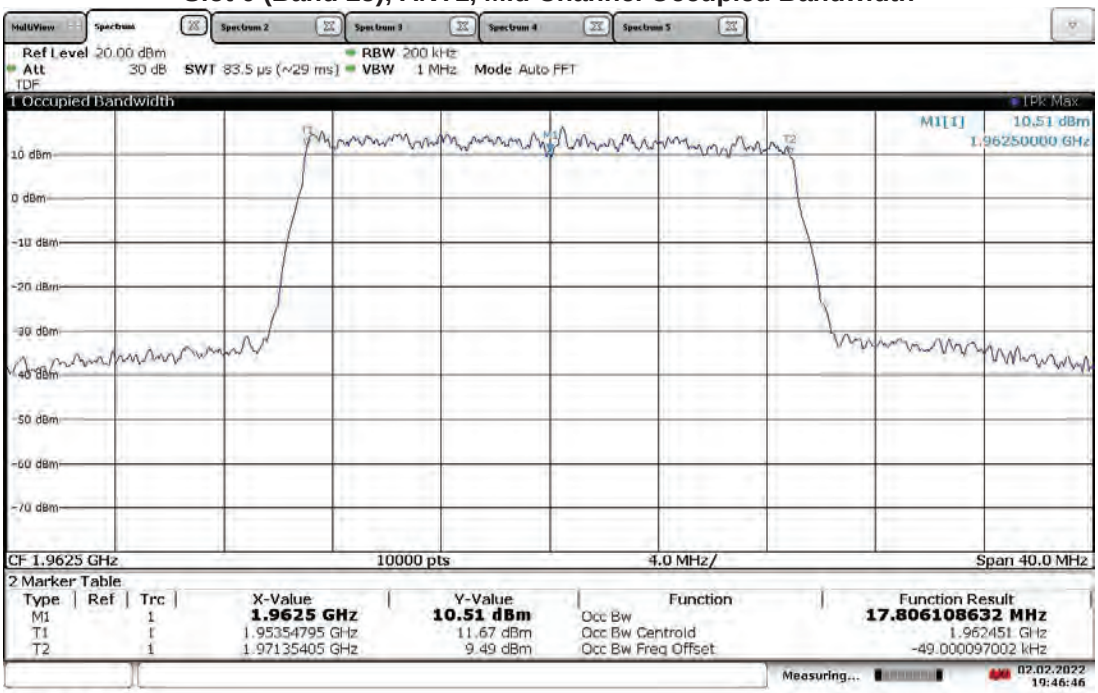
TM3.2-16QAM_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



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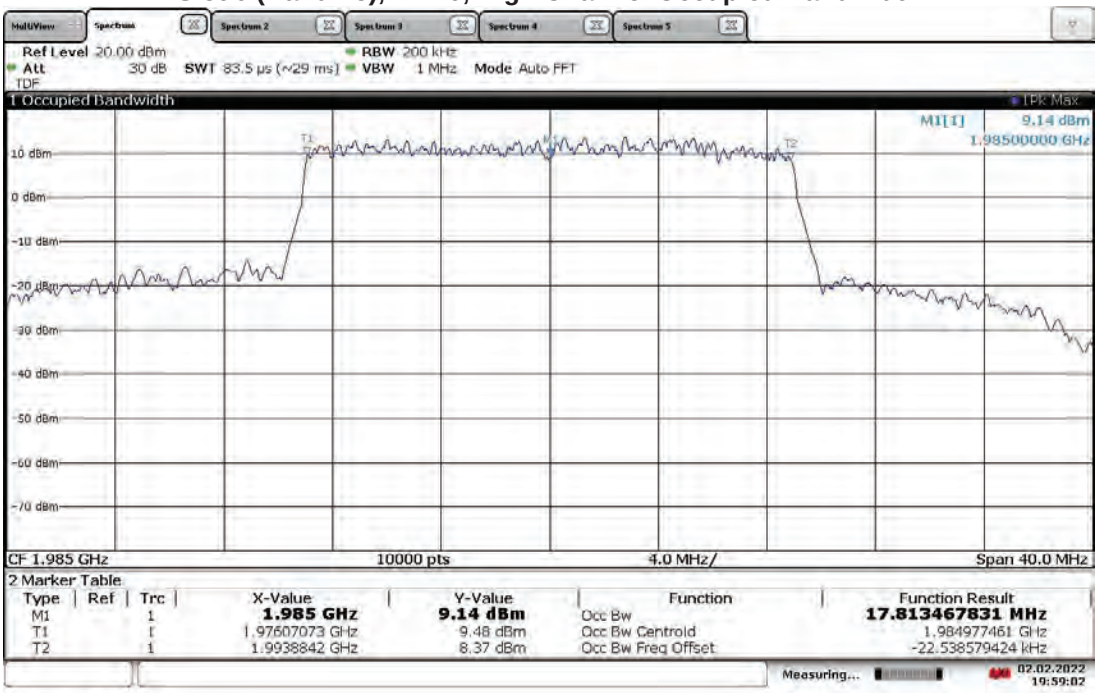
TM3.2-16QAM_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, High Channel Occupied Bandwidth



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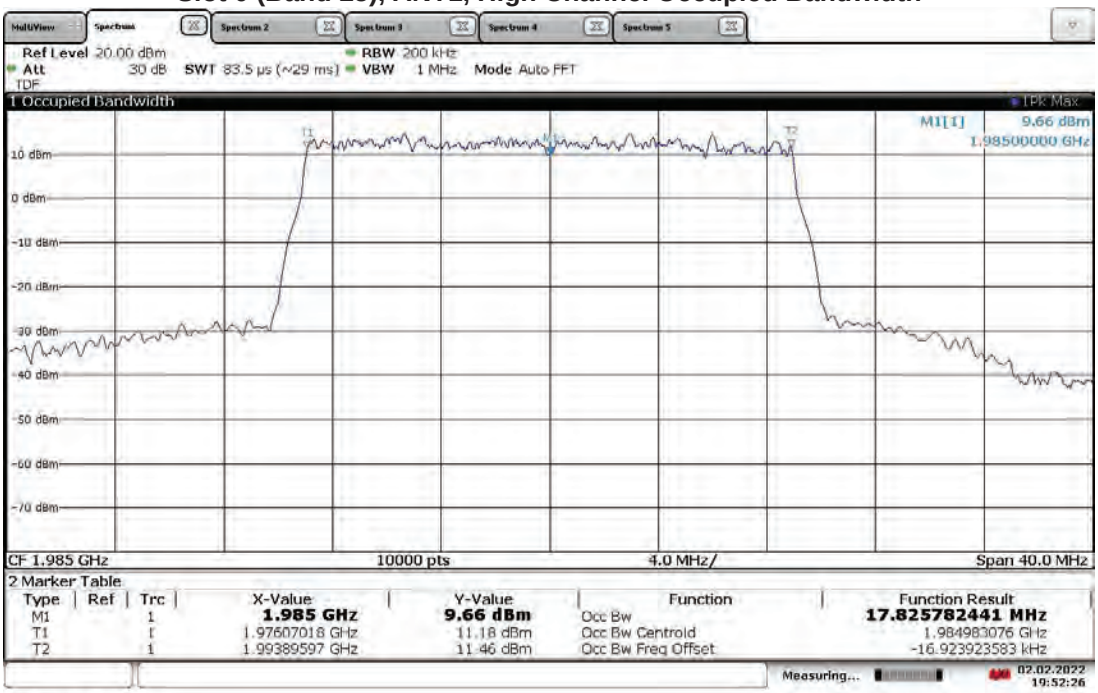
TM3.2-16QAM_20 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, High Channel Occupied Bandwidth



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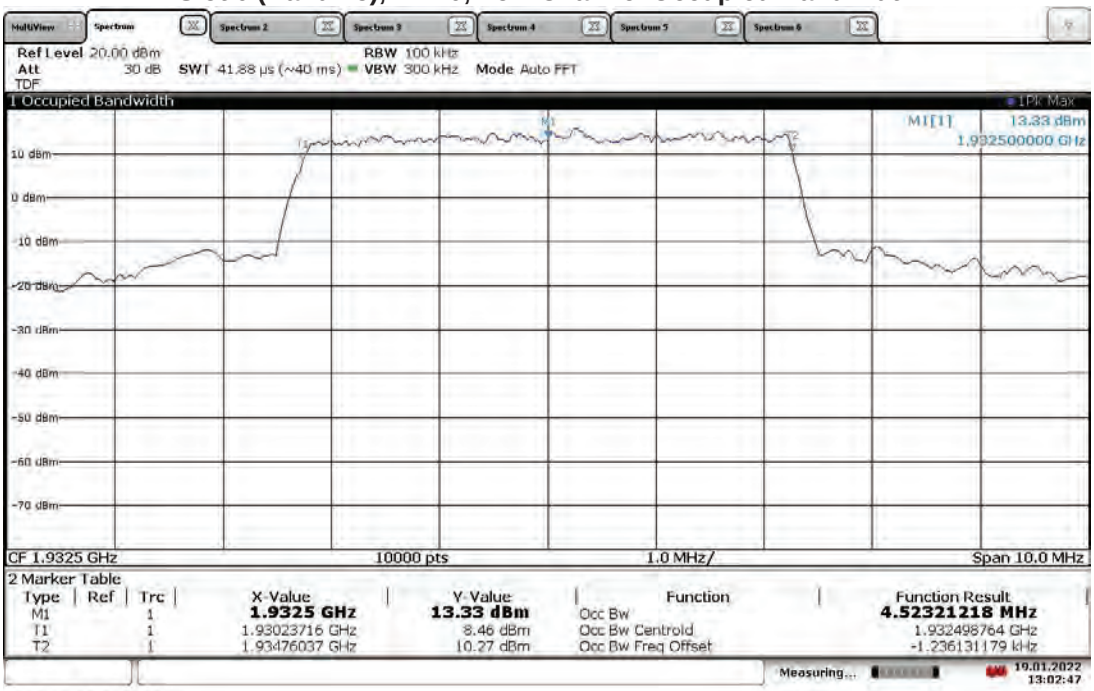
TM3.1-64QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Low Channel Occupied Bandwidth



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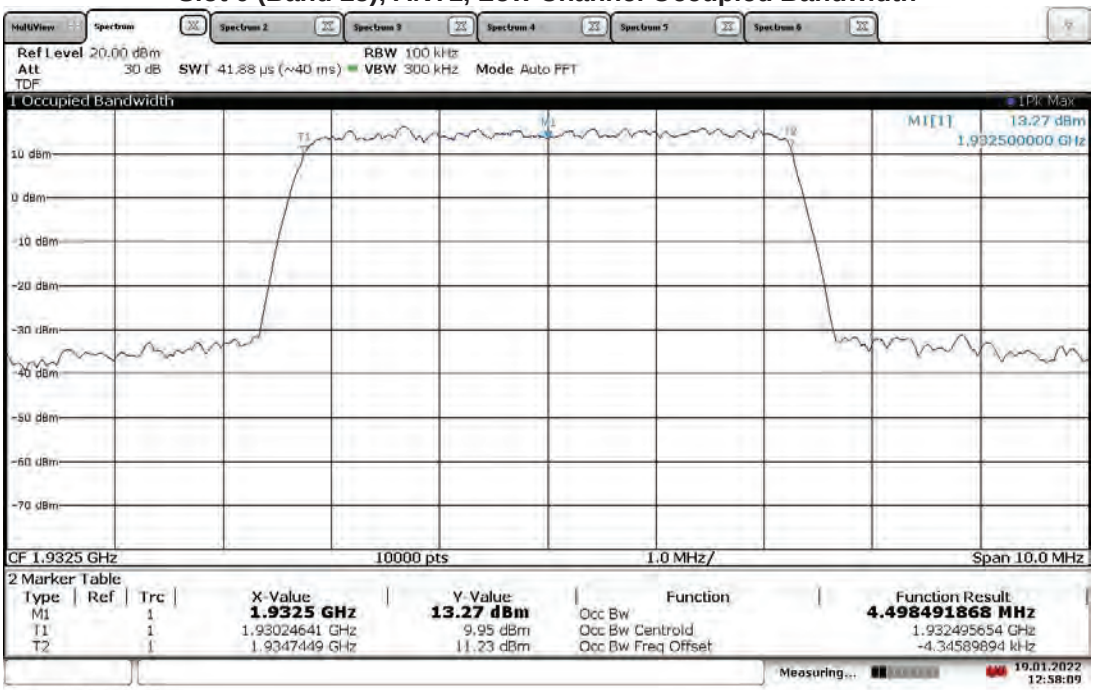
TM3.1-64QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Low Channel Occupied Bandwidth



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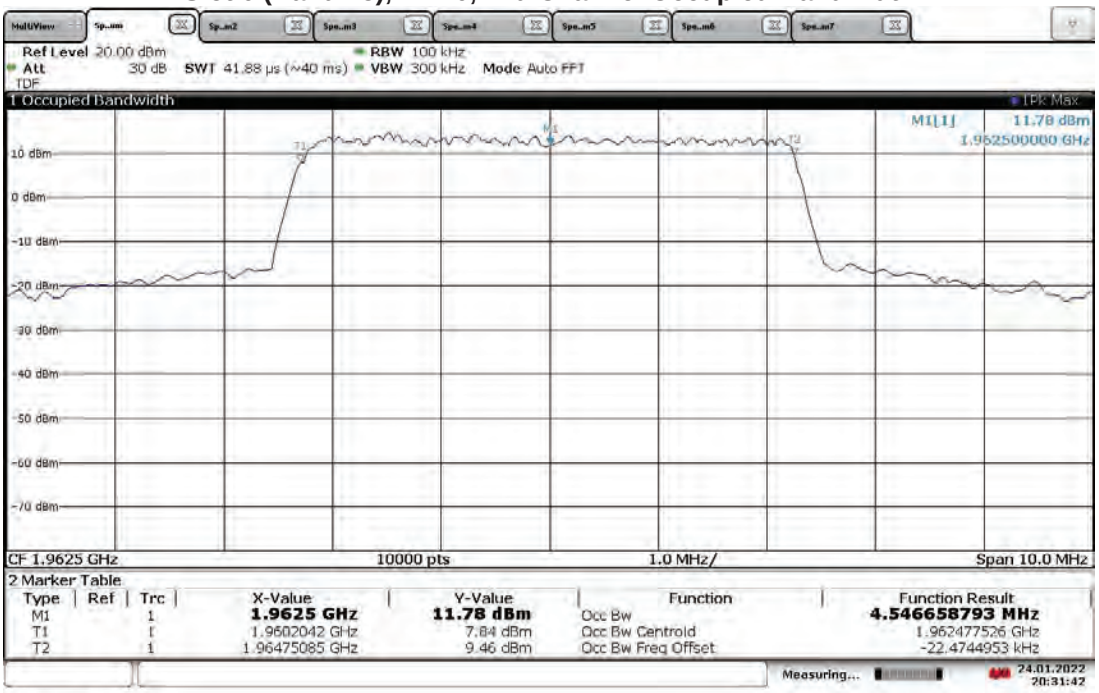
TM3.1-64QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT0, Mid Channel Occupied Bandwidth



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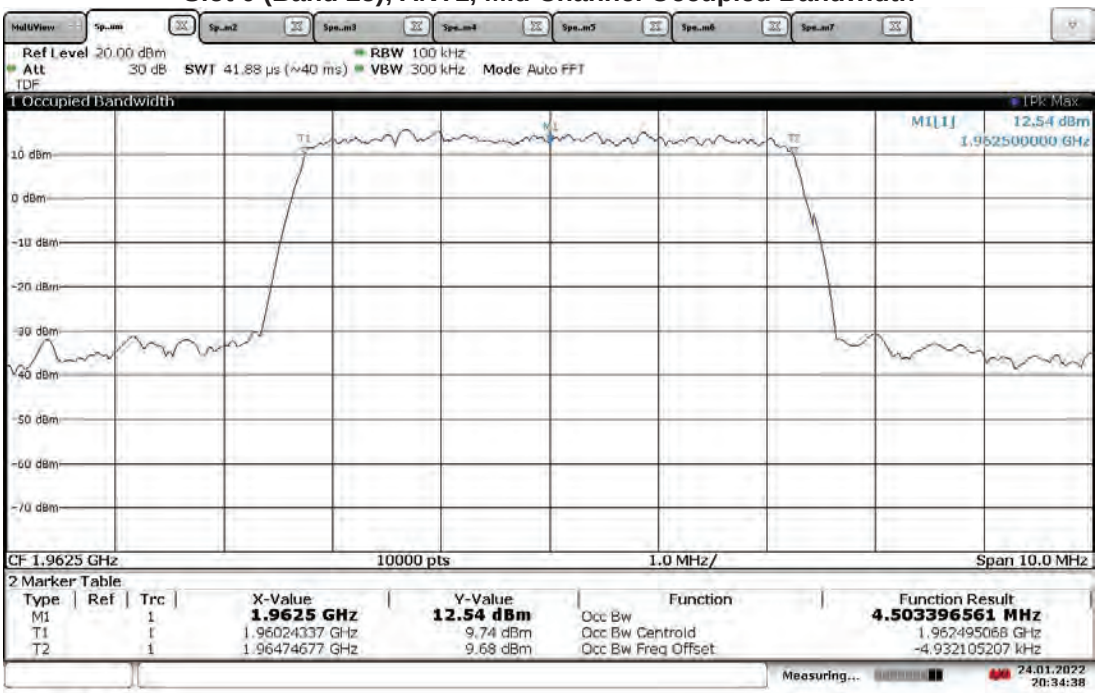
TM3.1-64QAM_5 MHz Bandwidth (4G LTE)
Slot 0 (Band 25), ANT1, Mid Channel Occupied Bandwidth



20:34:38 24.01.2022