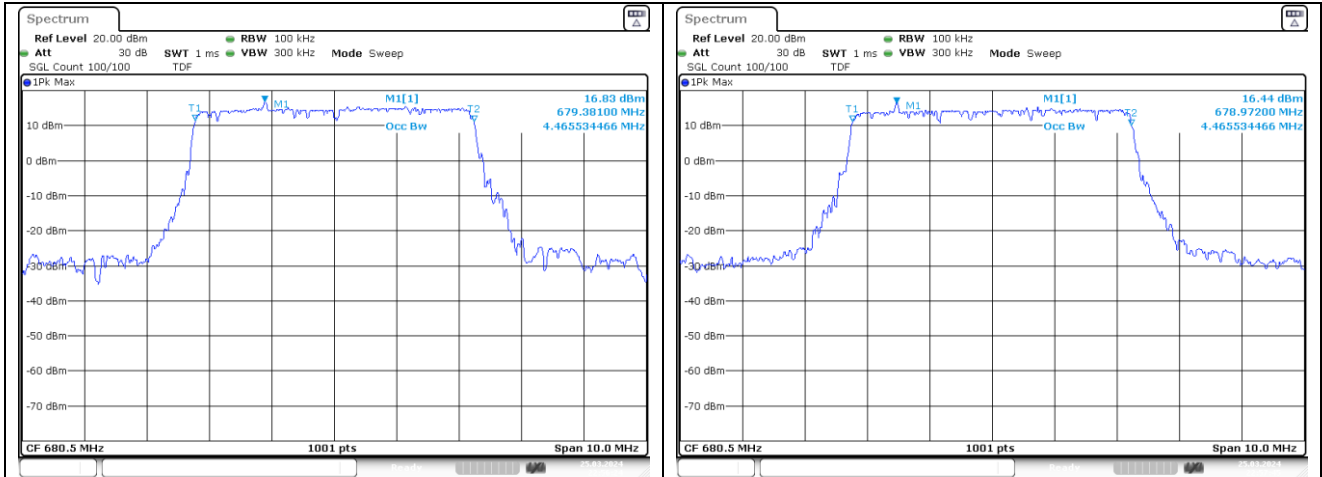
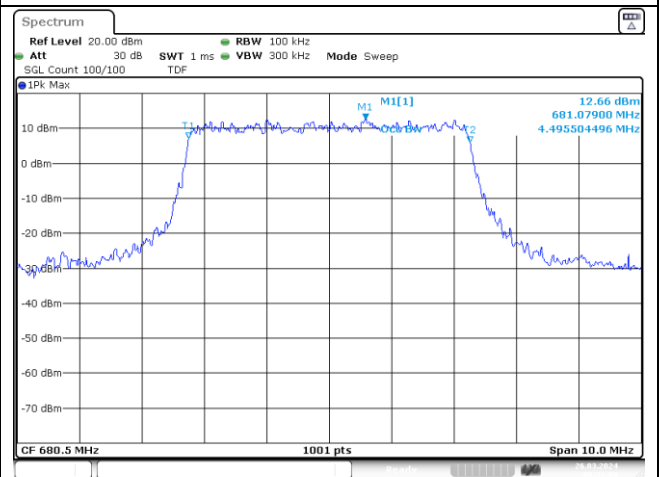
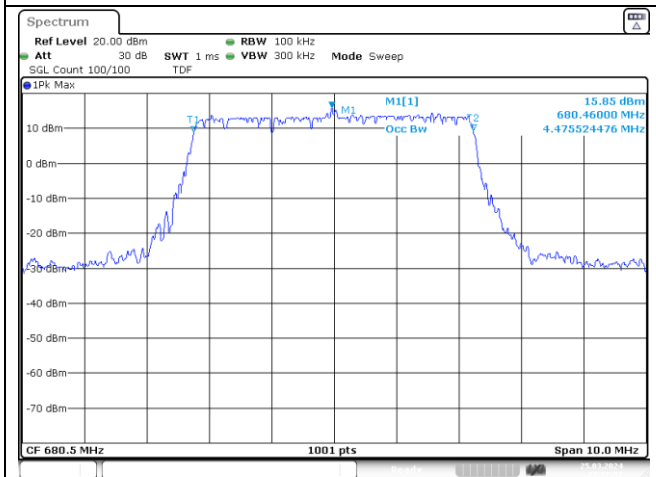


NR band 71



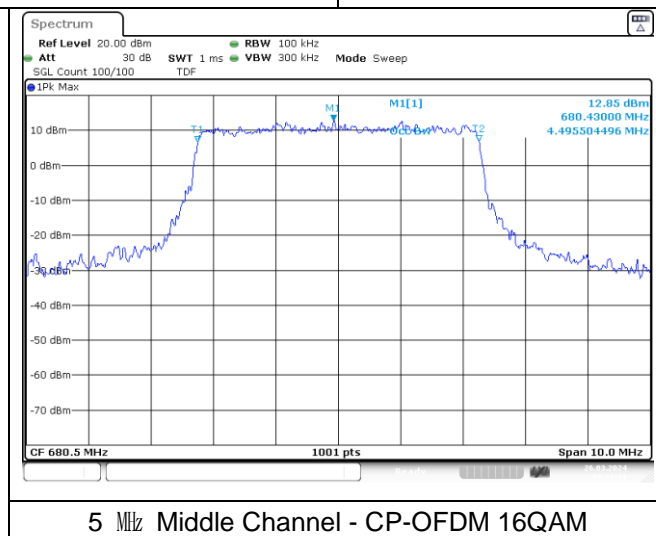
5 MHz Middle Channel - DFT-S-OFDM BPSK

5 MHz Middle Channel - DFT-S-OFDM QPSK



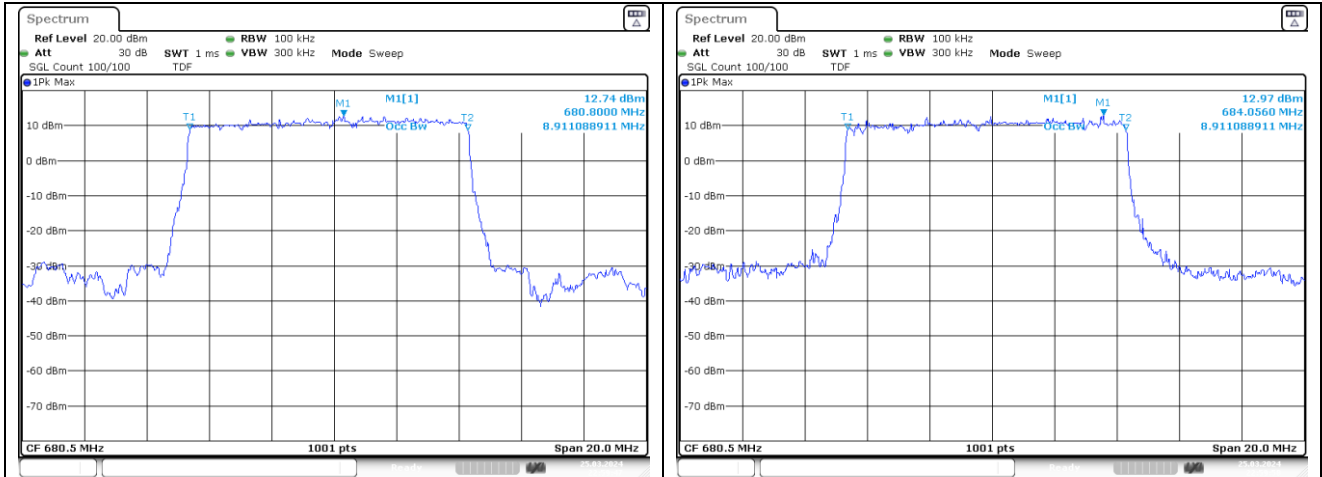
5 MHz Middle Channel - DFT-S-OFDM 16QAM

5 MHz Middle Channel - CP-OFDM QPSK



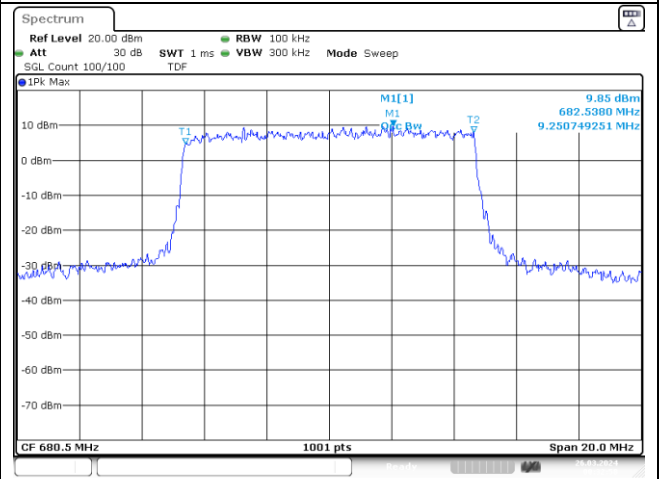
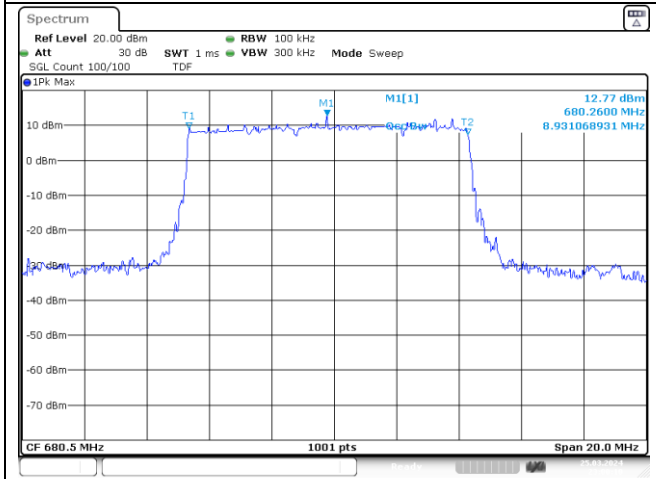
5 MHz Middle Channel - CP-OFDM 16QAM

NR band 71



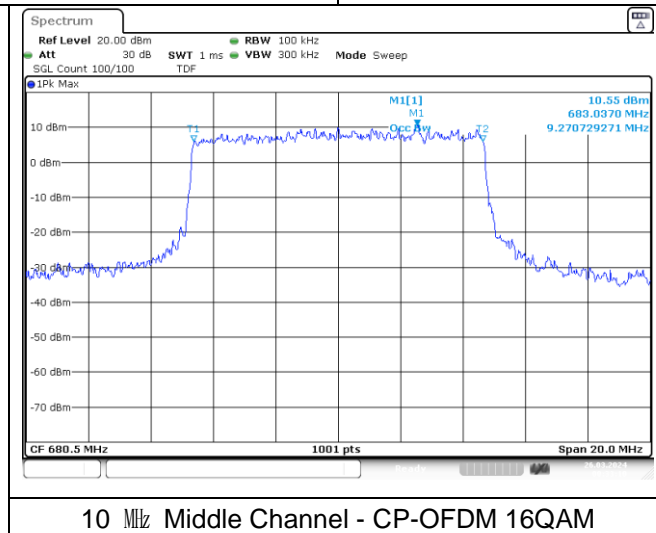
10 MHz Middle Channel - DFT-S-OFDM BPSK

10 MHz Middle Channel - DFT-S-OFDM QPSK



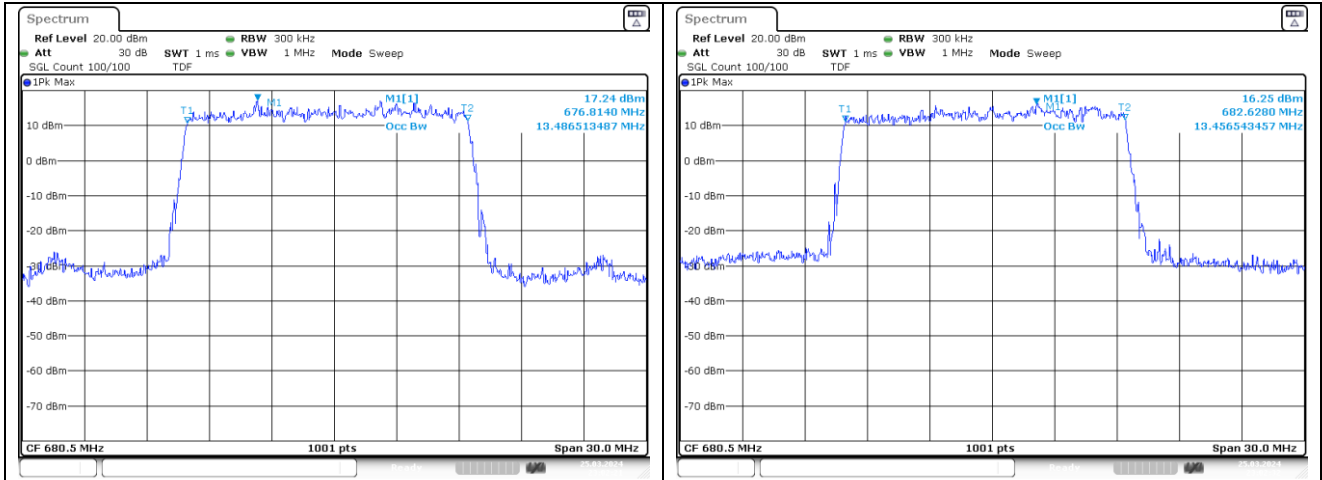
10 MHz Middle Channel - DFT-S-OFDM 16QAM

10 MHz Middle Channel - CP-OFDM QPSK



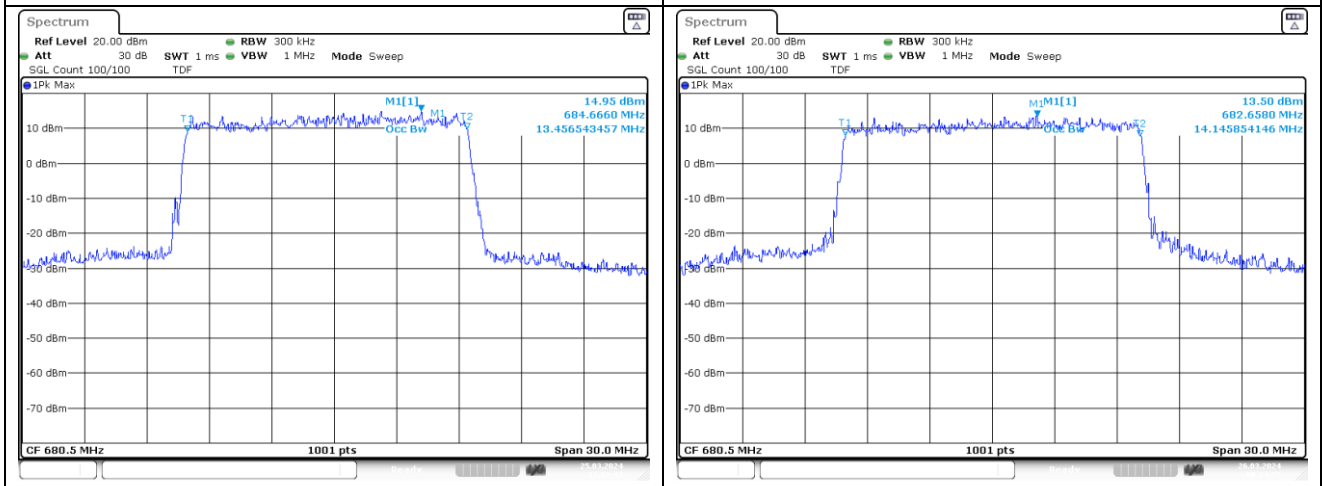
10 MHz Middle Channel - CP-OFDM 16QAM

NR band 71



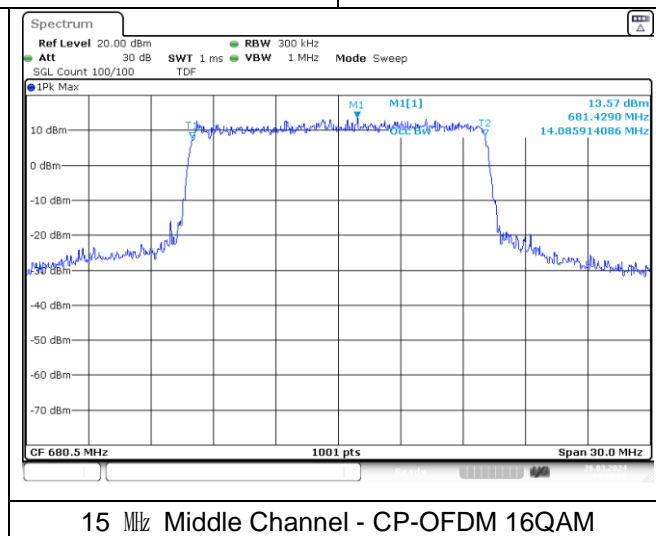
15 MHz Middle Channel - DFT-S-OFDM BPSK

15 MHz Middle Channel - DFT-S-OFDM QPSK



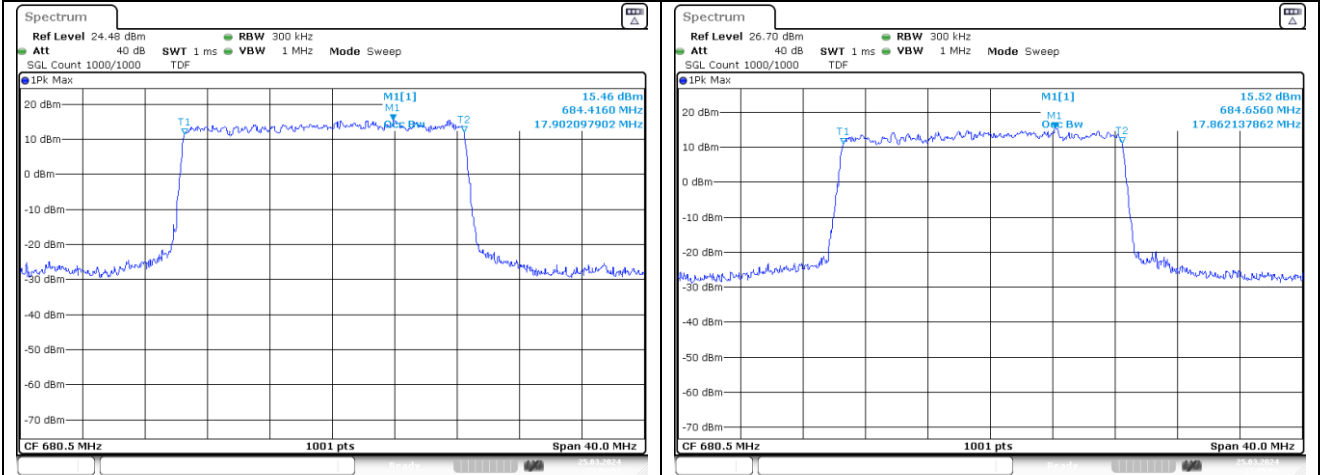
15 MHz Middle Channel - DFT-S-OFDM 16QAM

15 MHz Middle Channel - CP-OFDM QPSK

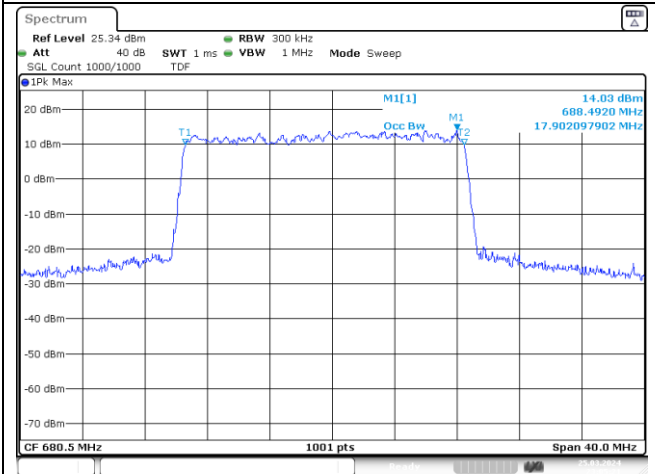


15 MHz Middle Channel - CP-OFDM 16QAM

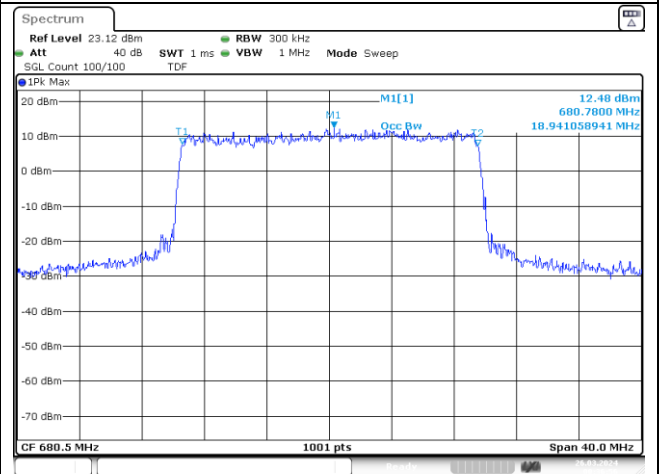
NR band 71



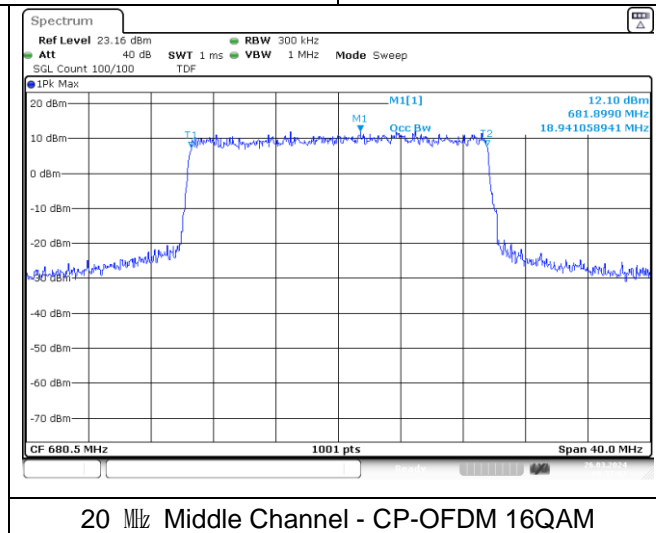
20 MHz Middle Channel - DFT-S-OFDM BPSK



20 MHz Middle Channel - DFT-S-OFDM QPSK



20 MHz Middle Channel - DFT-S-OFDM 16QAM



20 MHz Middle Channel - CP-OFDM QPSK

20 MHz Middle Channel - CP-OFDM 16QAM

5. Peak-Average Ratio

5.1. Limit

- §22.913(d) measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

- §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

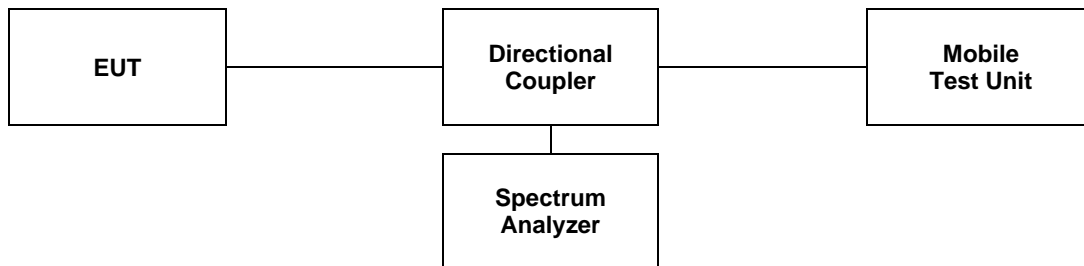
- §27.50(d)(5), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.2. Test Procedure

The test follows section 5.2.3.4 of ANSI C63.26-2015.

See instrumentation-specific application literature for further guidance regarding use of the CCDF capability. The following guidelines are offered for performing a CCDF measurement.

- a. Set resolution/measurement bandwidth \geq OBW or specified reference bandwidth.
- b. Set the number of counts to a value that stabilizes the measured CCDF curve.
- c. Set the measurement interval as follows:
 - 1) For continuous transmissions, set to greater of $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ or 1 ms.
 - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d. Record the maximum PAPR level associated with a probability of 0.1 %.
- e. The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.



5.3 Test Results

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 % R.H.

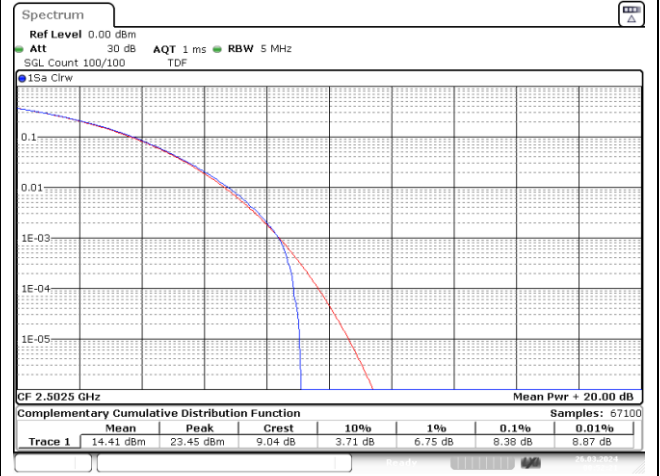
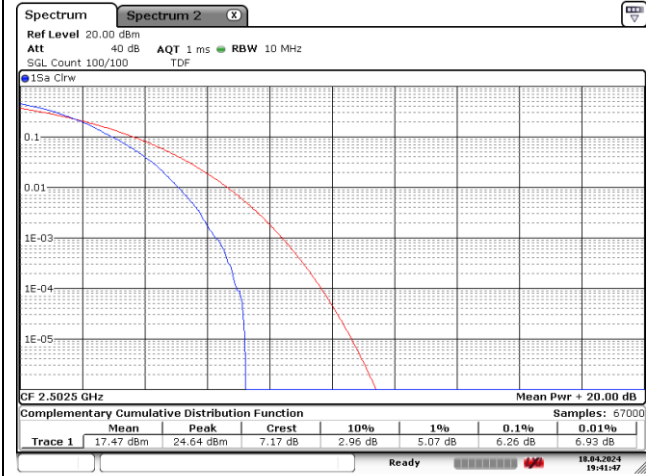
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
7	15	5	256QAM	2 502.5	6.26	8.38
				2 535.0	6.20	8.41
				2 567.5	6.32	8.26
		10	256QAM	2 505.0	6.32	8.32
				2 535.0	6.41	8.38
				2 565.0	6.41	8.72
		15	256QAM	2 507.5	6.61	8.35
				2 535.0	6.64	8.38
				2 562.5	6.46	8.78
		20	256QAM	2 510.0	6.58	8.20
				2 535.0	6.64	8.26
				2 560.0	6.52	8.38
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
12	15	5	256QAM	701.5	6.23	8.41
				707.5	6.23	8.29
				713.5	6.32	8.32
		10	256QAM	704.0	6.26	8.32
				707.5	6.29	8.70
				711.0	6.46	8.70
		15	256QAM	706.5	6.43	8.38
				707.5	6.49	8.32
				708.5	6.55	8.43
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
13	15	5	256QAM	779.5	6.38	8.56
				782.0	6.46	8.42
				784.5	6.26	8.44
		10	256QAM	782.0	6.70	8.68
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
14	15	5	256QAM	790.5	6.46	8.46
				793.0	6.29	8.49
				795.5	6.20	8.38
		10	256QAM	793.0	6.41	8.70

Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)			
					DFT-S-OFDM	CP-OFDM		
25/2	15	5	256QAM	1 852.5	6.29	8.26		
				1 882.5	6.26	8.61		
				1 912.5	6.26	8.09		
		10	256QAM	1 855.0	6.43	8.55		
				1 882.5	6.35	8.55		
				1 910.0	6.38	8.55		
		15	256QAM	1 857.5	6.55	8.46		
				1 882.5	6.55	8.38		
				1 907.5	6.49	8.32		
		20	256QAM	1 860.0	6.64	8.29		
				1 882.5	6.61	8.35		
				1 905.0	6.52	8.46		
		25	256QAM	1862.5	6.52	8.67		
				1882.5	6.49	8.38		
				1902.5	6.67	8.78		
		30	256QAM	1 865.0	6.43	8.58		
				1 882.5	6.52	8.46		
				1 900.0	6.41	8.43		
		40	256QAM	1 870.0	6.26	8.61		
				1 882.5	6.41	8.41		
				1 895.0	6.67	8.35		
		Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
		26/5 Part 22	15	5	256QAM	826.5	6.06	8.75
						836.5	6.35	8.78
846.5	6.26					8.32		
10	256QAM			829.0	6.26	8.52		
				836.5	6.49	8.35		
				844.0	6.26	8.49		
15	256QAM			831.5	6.58	8.23		
				836.5	6.49	8.43		
				841.5	6.52	8.35		
20	256QAM			834.0	6.58	8.43		
				836.5	6.49	8.41		
				839.0	6.52	8.41		
Band	SCS (kHz)			BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
26/5 Part 90	15			5	256QAM	816.5	6.32	8.43
						819.0	6.32	8.38
		10	821.5	6.32		8.17		
			819.0	6.43		8.43		

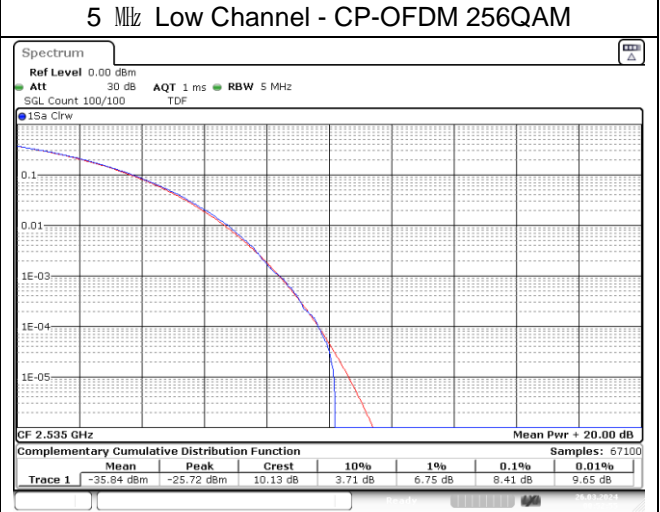
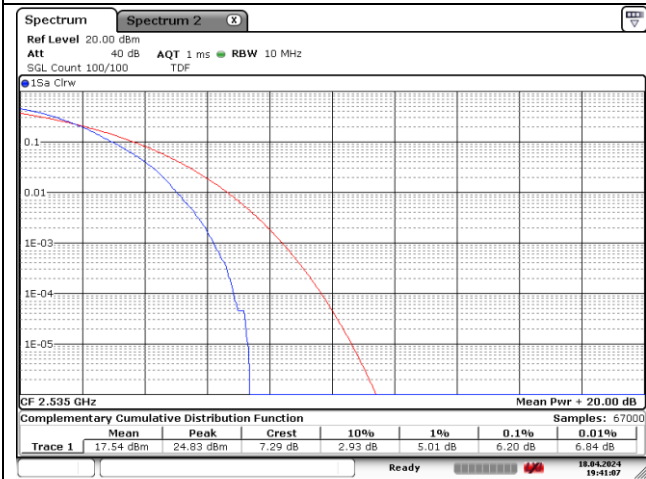
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)			
					DFT-S-OFDM	CP-OFDM		
66	15	5	256QAM	1 712.5	6.26	8.52		
				1 745.0	6.20	8.46		
				1 777.5	6.29	8.20		
		10	256QAM	1 715.0	6.43	8.61		
				1 745.0	6.29	8.32		
				1 775.0	6.41	8.46		
		15	256QAM	1 717.5	6.58	8.29		
				1 745.0	6.52	8.35		
				1 772.5	6.46	8.32		
		20	256QAM	1 720.0	6.52	8.35		
				1 745.0	6.55	8.32		
				1 770.0	6.43	8.32		
		25	256QAM	1 722.5	6.67	8.58		
				1 745.0	6.58	8.61		
				1 767.5	6.49	8.58		
		30	256QAM	1 725.0	6.58	8.35		
				1 745.0	6.32	8.32		
				1 765.0	6.61	8.38		
		40	256QAM	1 730.0	6.49	8.32		
				1 745.0	6.35	8.35		
				1 760.0	6.58	8.26		
		Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
		71	15	5	256QAM	665.5	6.23	8.26
						680.5	6.14	8.17
695.5	6.12					8.00		
10	256QAM			668.0	6.26	8.20		
				680.5	6.32	8.52		
				693.0	6.20	8.20		
15	256QAM			670.5	6.49	8.12		
				680.5	6.35	8.20		
				690.5	6.35	8.09		
20	256QAM			673.0	6.38	8.35		
				680.5	6.38	8.17		
				688.0	6.32	8.32		

- Test plots

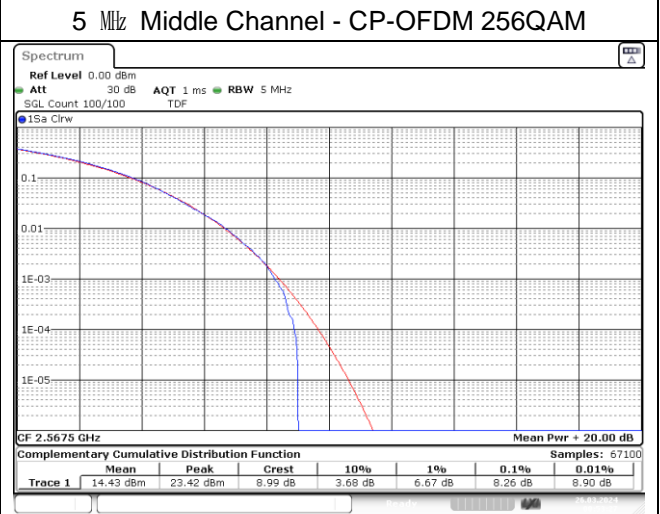
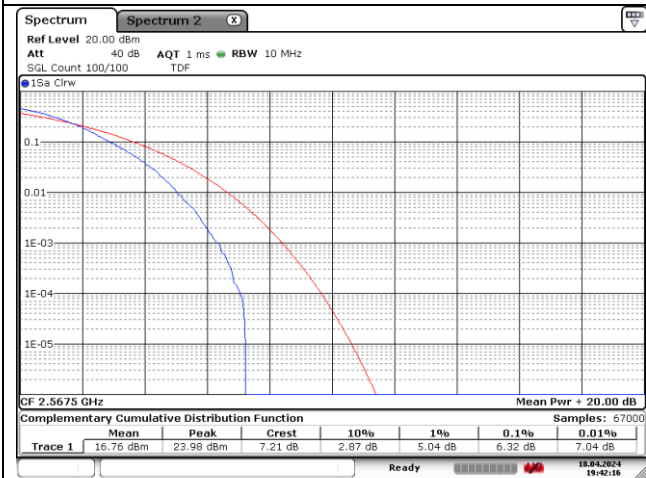
NR band 7



5 MHz Low Channel - DFT-S-OFDM 256QAM



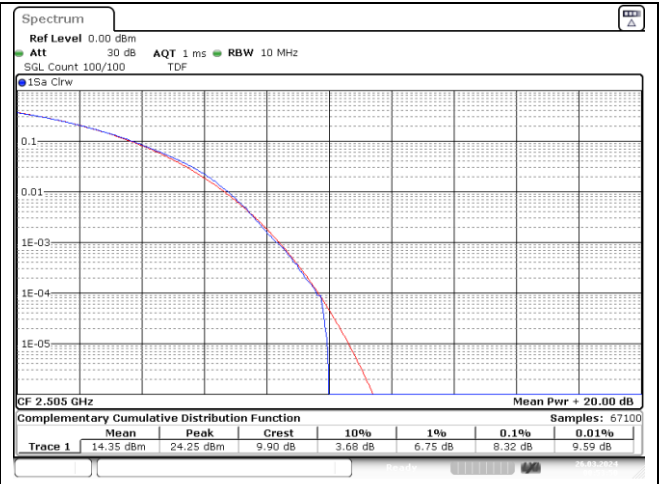
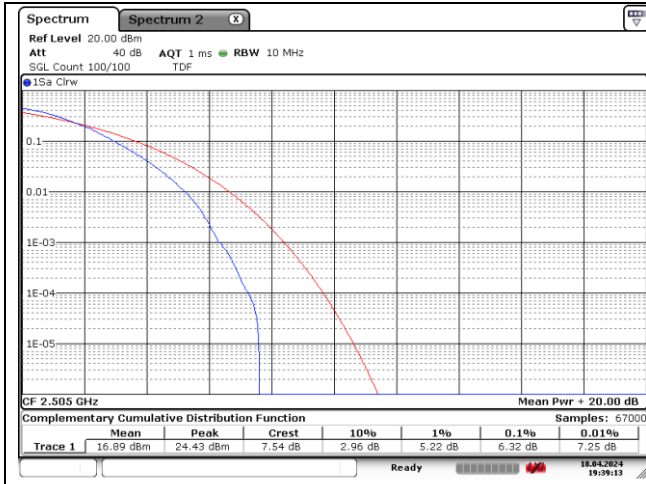
5 MHz Middle Channel - DFT-S-OFDM 256QAM



5 MHz High Channel - DFT-S-OFDM 256QAM

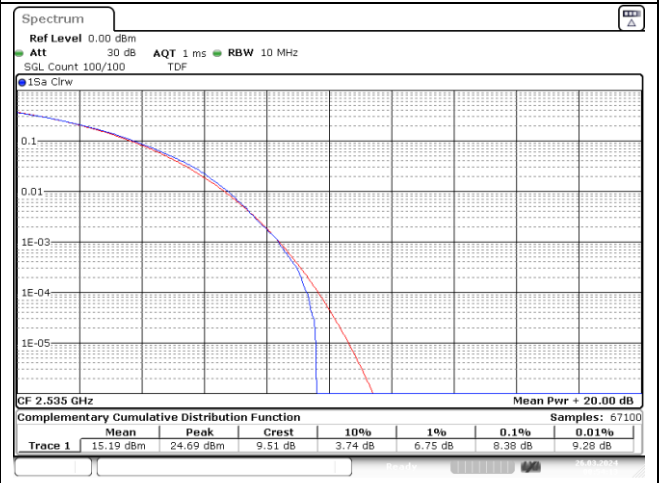
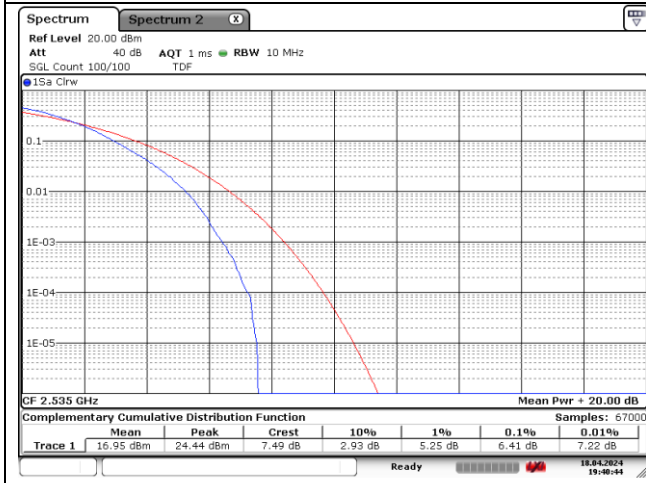
5 MHz High Channel - CP-OFDM 256QAM

NR band 7



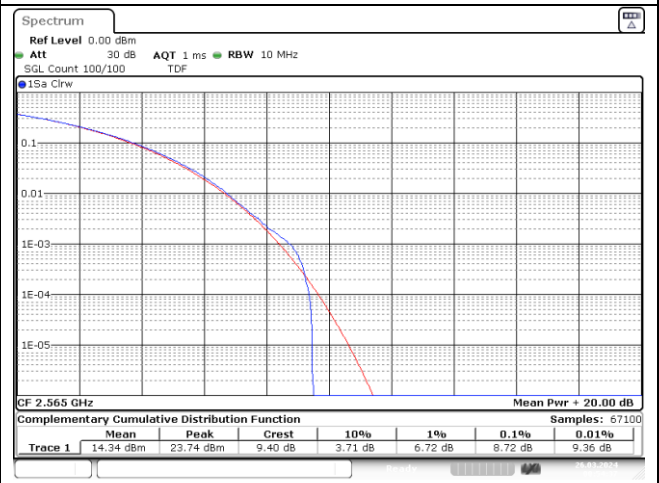
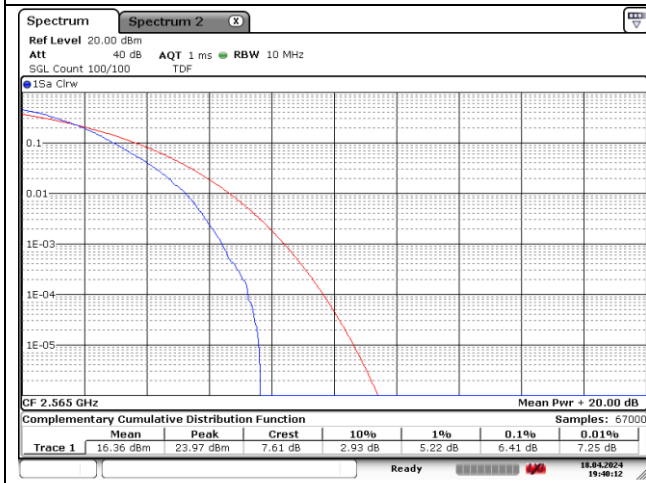
10 MHz Low Channel - DFT-S-OFDM 256QAM

10 MHz Low Channel - CP-OFDM 256QAM



10 MHz Middle Channel - DFT-S-OFDM 256QAM

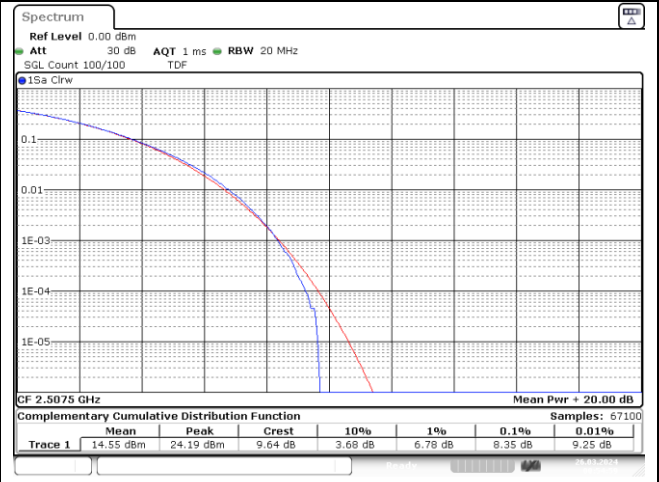
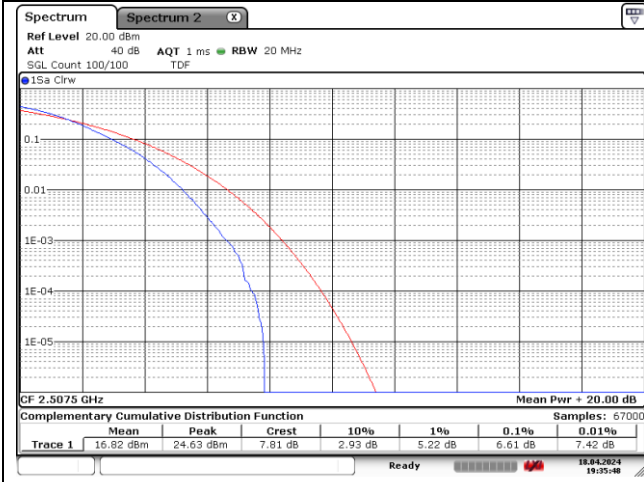
10 MHz Middle Channel - CP-OFDM 256QAM



10 MHz High Channel - DFT-S-OFDM 256QAM

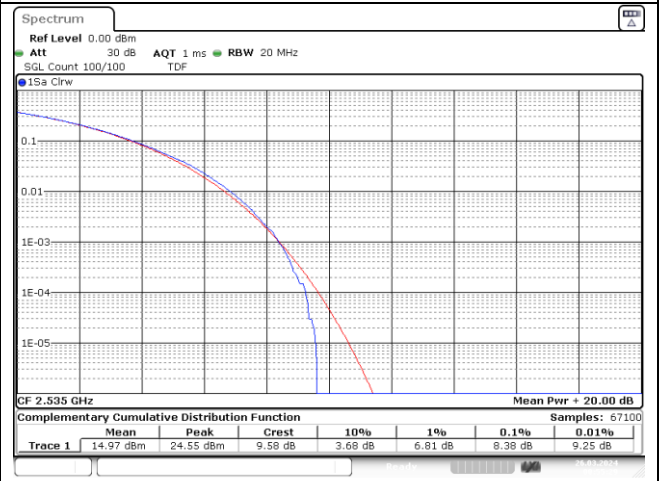
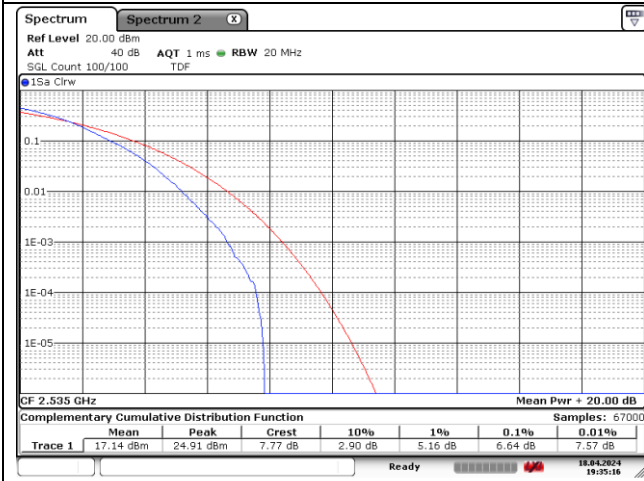
10 MHz High Channel - CP-OFDM 256QAM

NR band 7



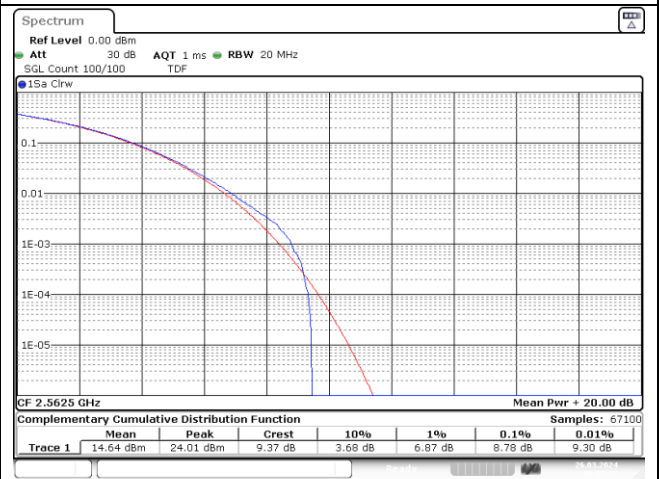
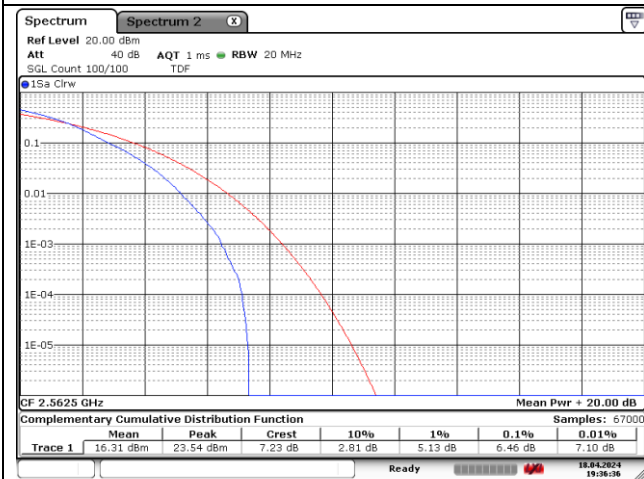
15 MHz Low Channel - DFT-S-OFDM 256QAM

15 MHz Low Channel - CP-OFDM 256QAM



15 MHz Middle Channel - DFT-S-OFDM 256QAM

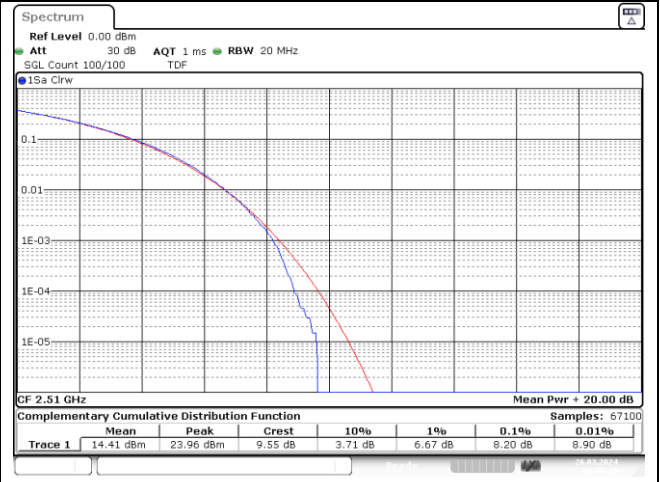
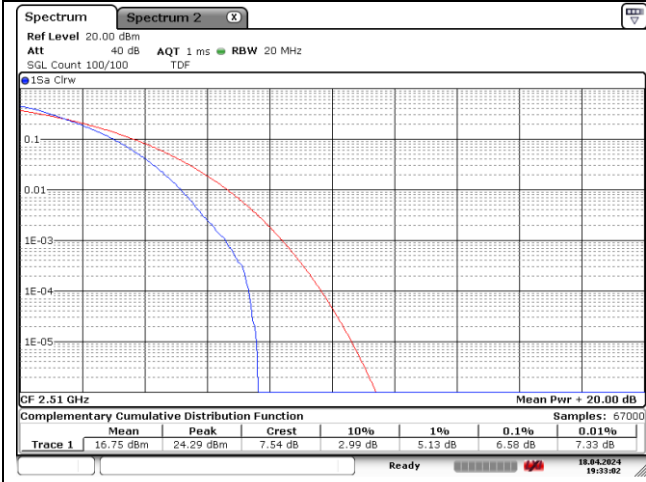
15 MHz Middle Channel - CP-OFDM 256QAM



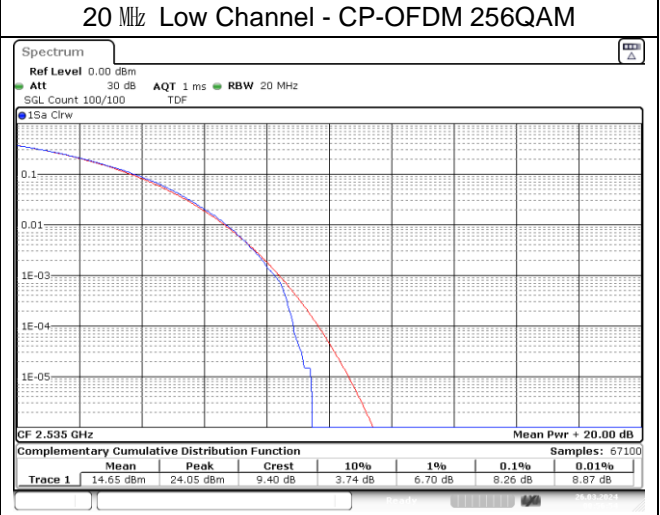
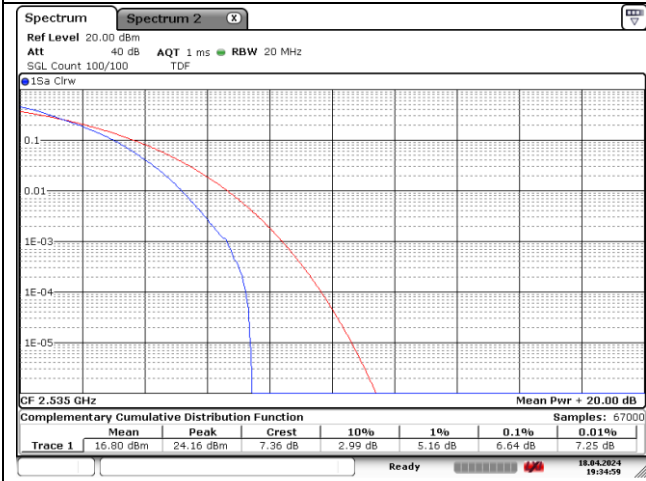
15 MHz High Channel - DFT-S-OFDM 256QAM

15 MHz High Channel - CP-OFDM 256QAM

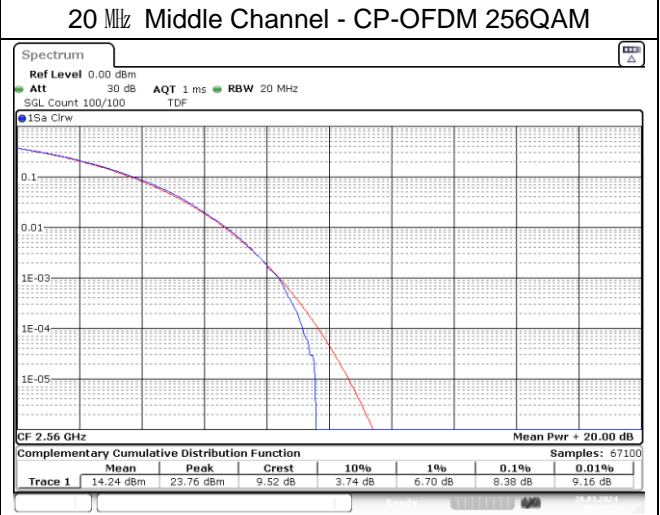
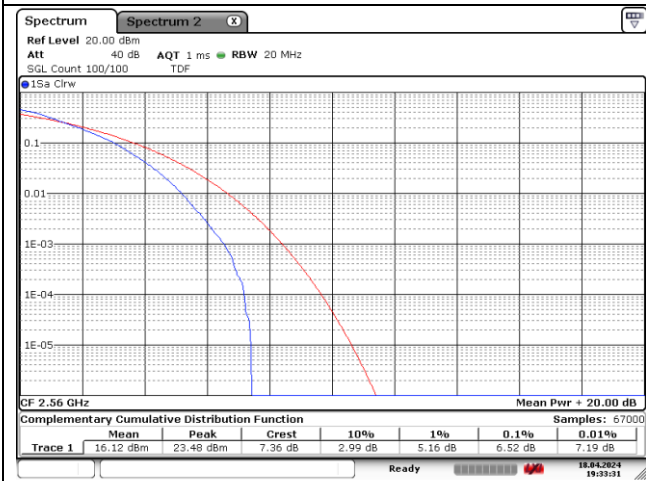
NR band 7



20 MHz Low Channel - DFT-S-OFDM 256QAM



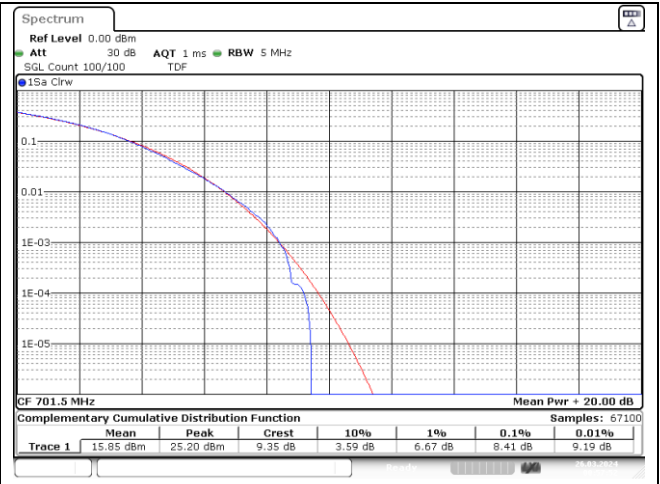
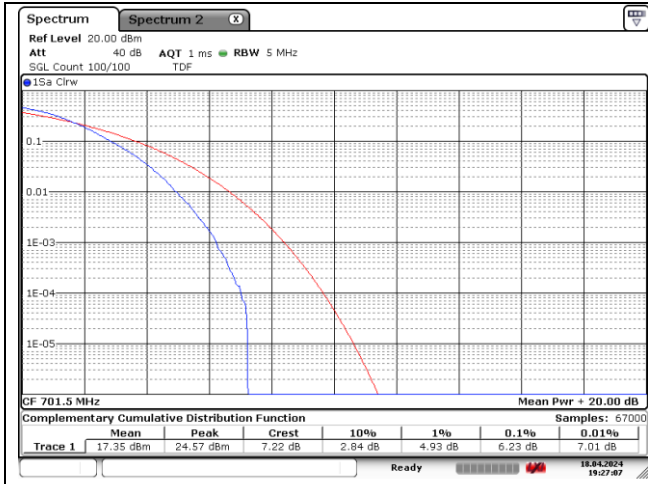
20 MHz Middle Channel - DFT-S-OFDM 256QAM



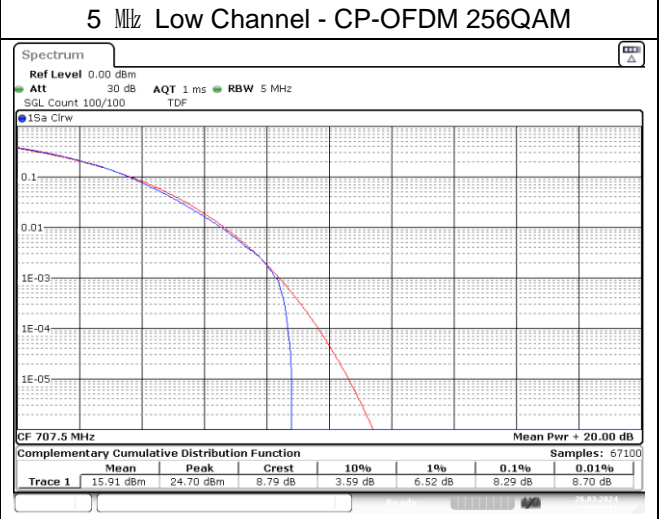
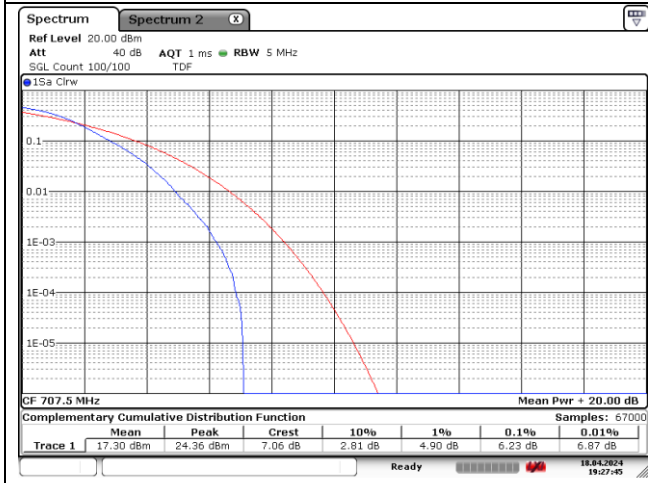
20 MHz High Channel - DFT-S-OFDM 256QAM

20 MHz High Channel - CP-OFDM 256QAM

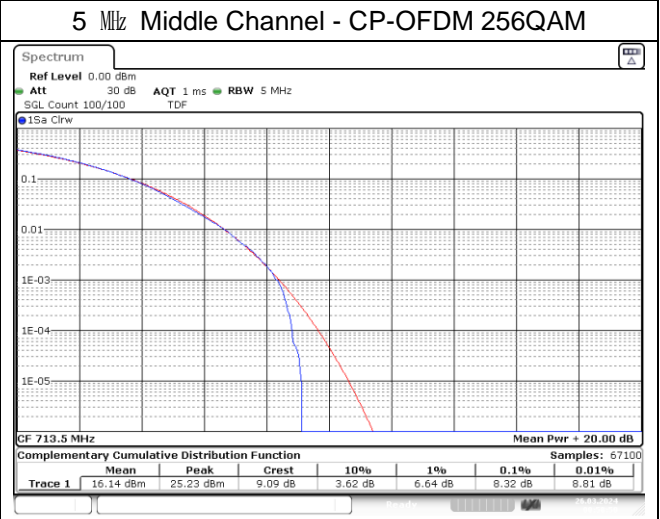
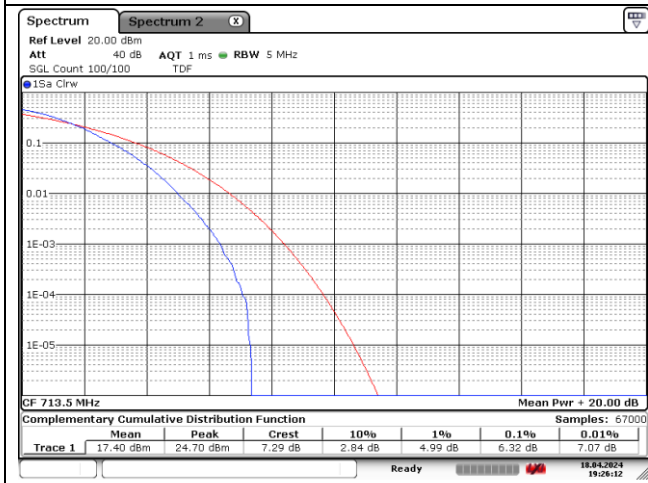
NR band 12



5 MHz Low Channel - DFT-S-OFDM 256QAM



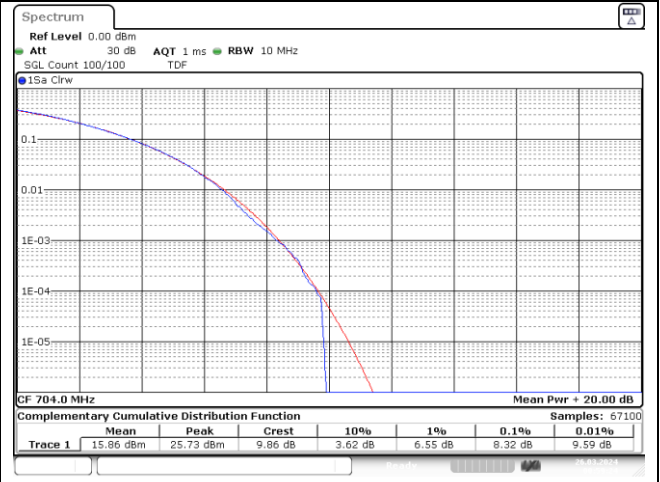
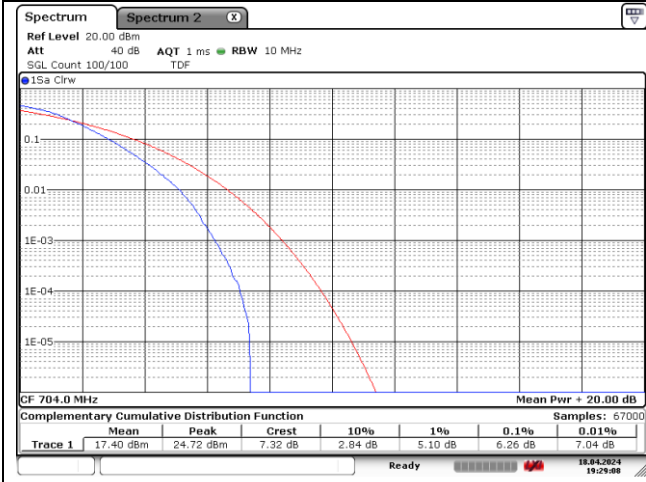
5 MHz Middle Channel - DFT-S-OFDM 256QAM



5 MHz High Channel - DFT-S-OFDM 256QAM

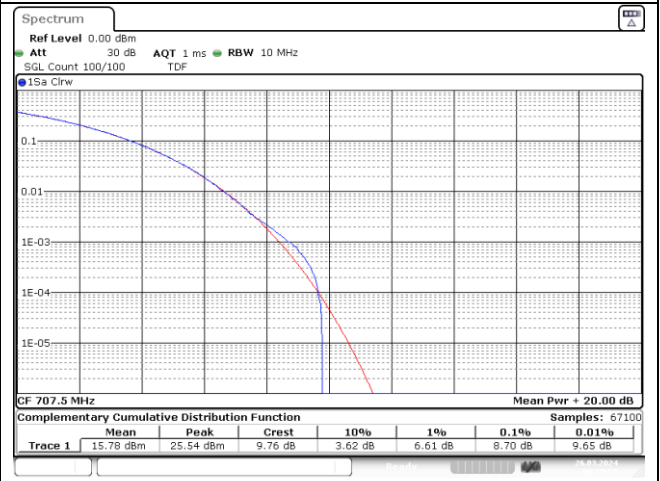
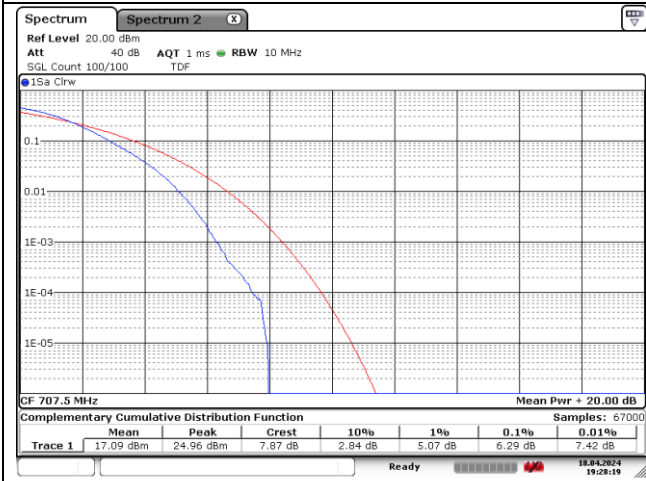
5 MHz High Channel - CP-OFDM 256QAM

NR band 12



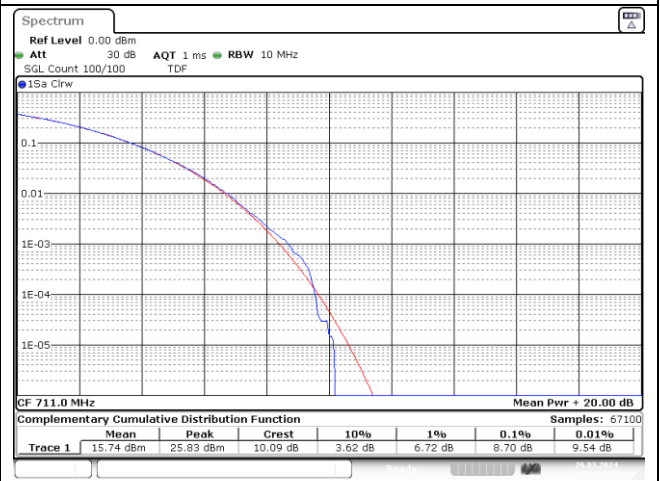
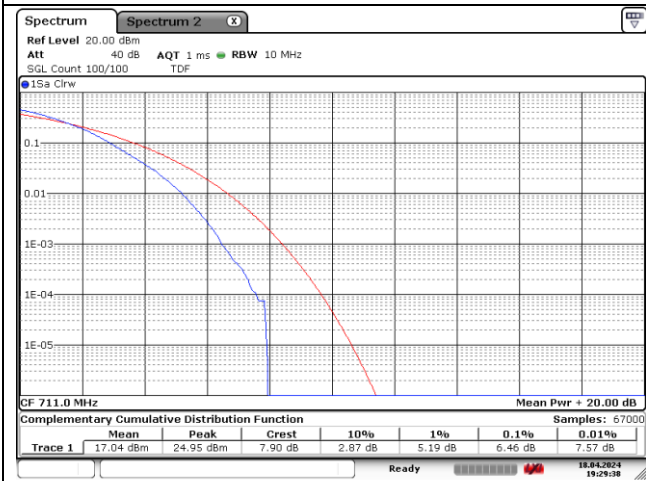
10 MHz Low Channel - DFT-S-OFDM 256QAM

10 MHz Low Channel - CP-OFDM 256QAM



10 MHz Middle Channel - DFT-S-OFDM 256QAM

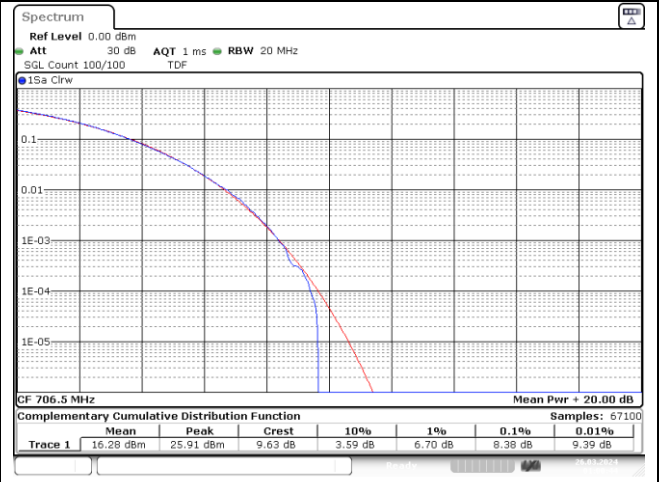
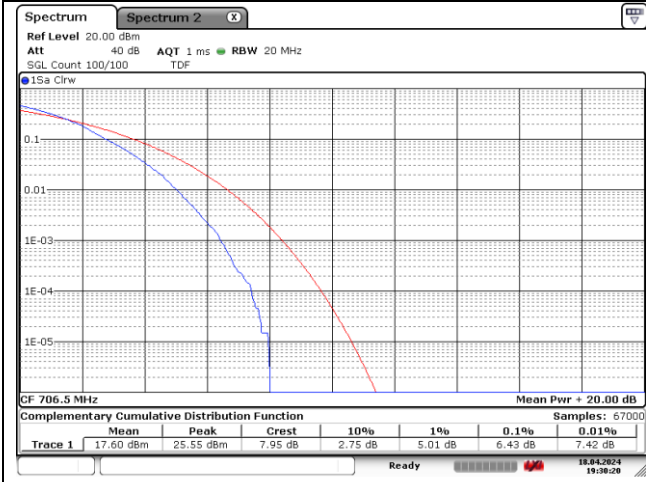
10 MHz Middle Channel - CP-OFDM 256QAM



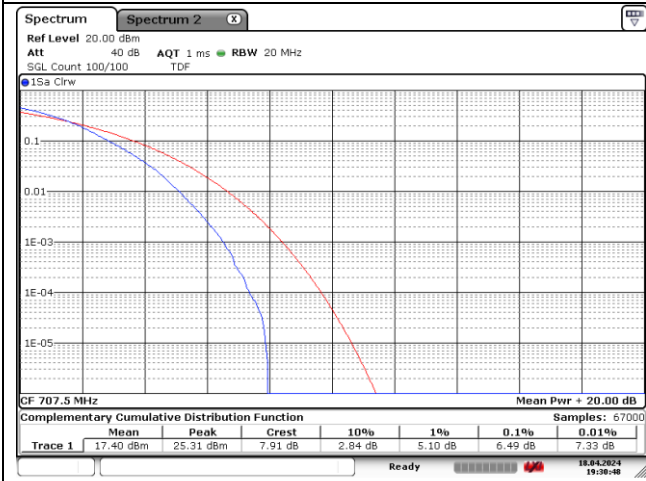
10 MHz High Channel - DFT-S-OFDM 256QAM

10 MHz High Channel - CP-OFDM 256QAM

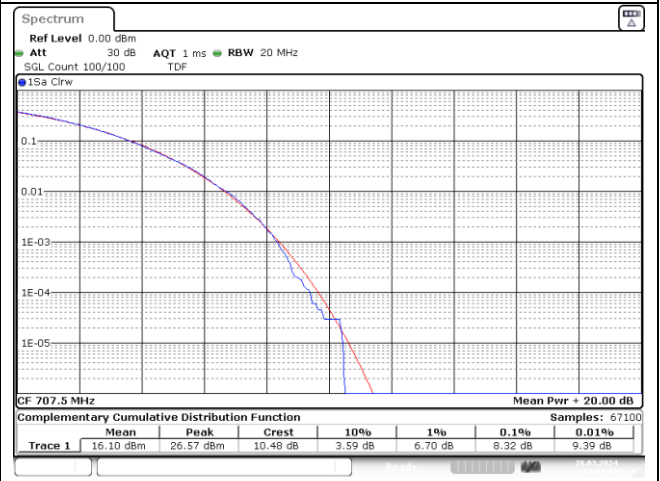
NR band 12



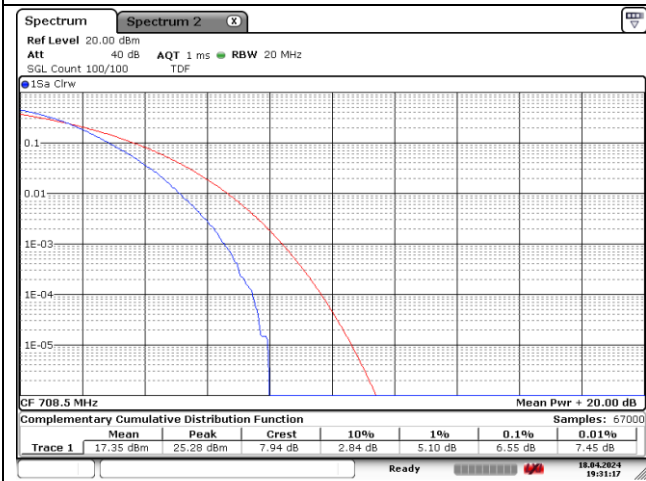
15 MHz Low Channel - DFT-S-OFDM 256QAM



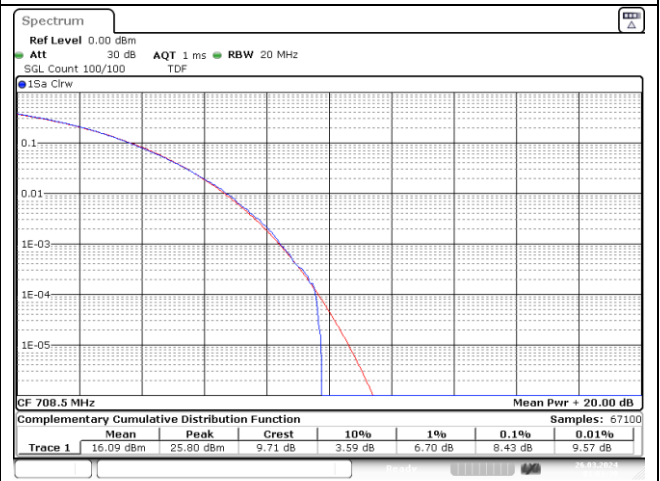
15 MHz Low Channel - CP-OFDM 256QAM



15 MHz Middle Channel - DFT-S-OFDM 256QAM



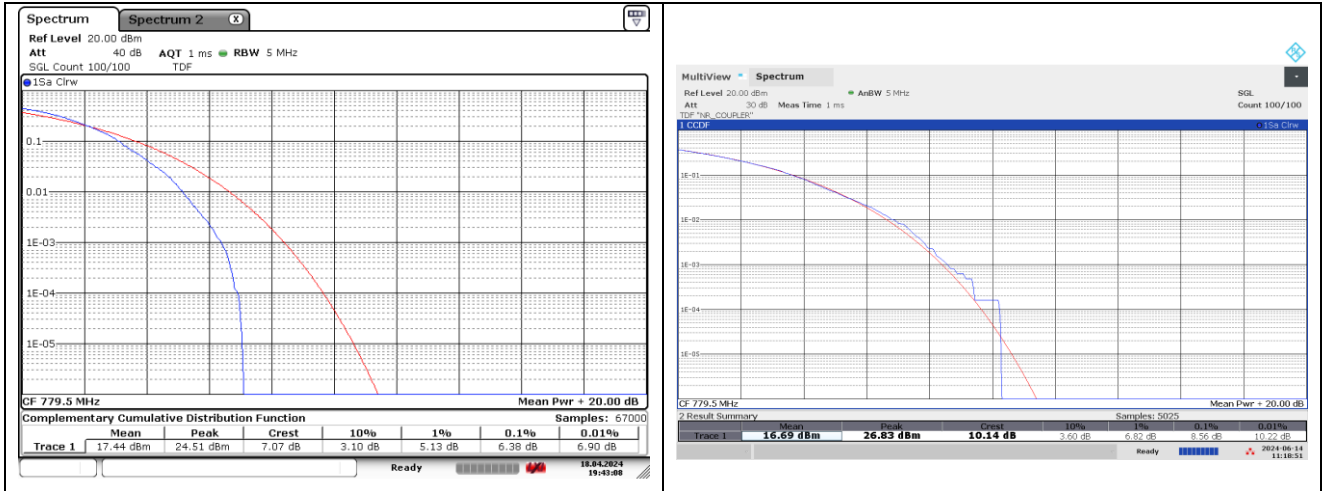
15 MHz Middle Channel - CP-OFDM 256QAM



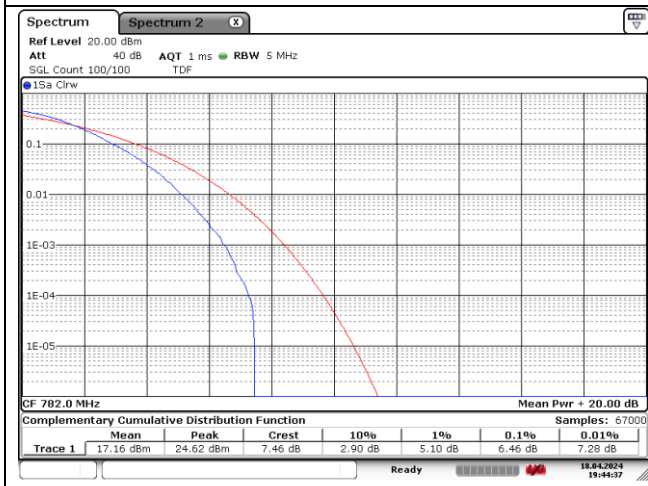
15 MHz High Channel - DFT-S-OFDM 256QAM

15 MHz High Channel - CP-OFDM 256QAM

NR band 13



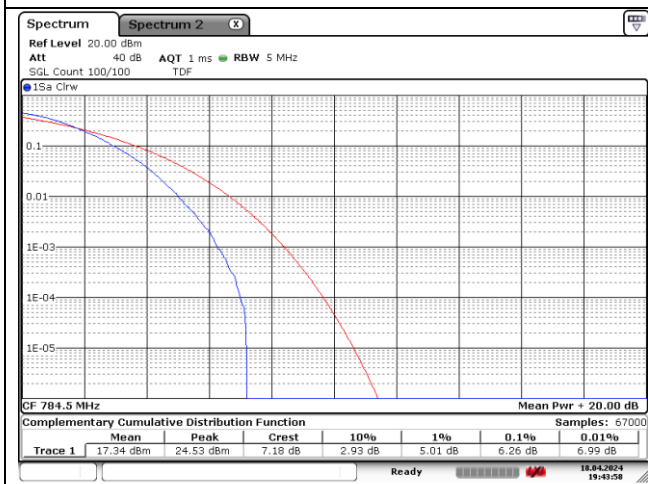
5 MHz Low Channel - DFT-S-OFDM 256QAM



5 MHz Low Channel - CP-OFDM 256QAM



5 MHz Middle Channel - DFT-S-OFDM 256QAM



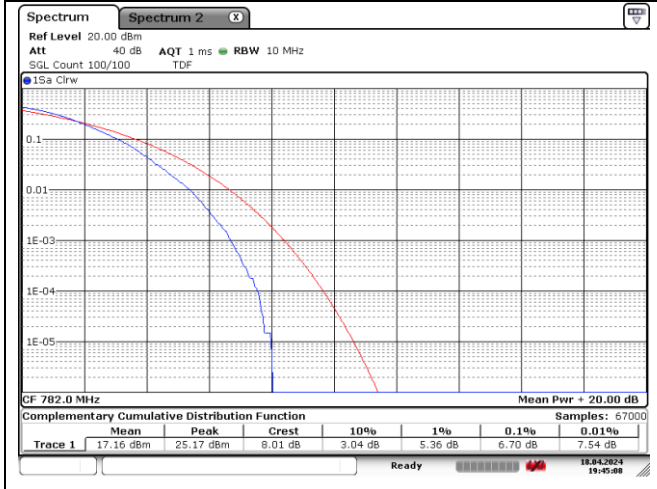
5 MHz Middle Channel - CP-OFDM 256QAM



5 MHz High Channel - DFT-S-OFDM 256QAM

5 MHz High Channel - CP-OFDM 256QAM

NR band 13

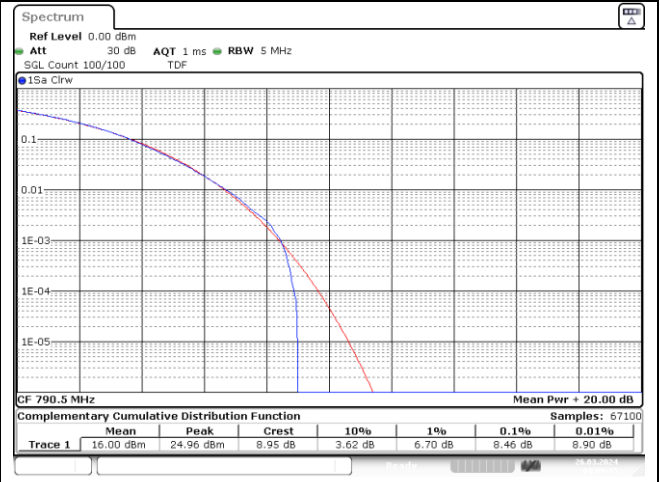
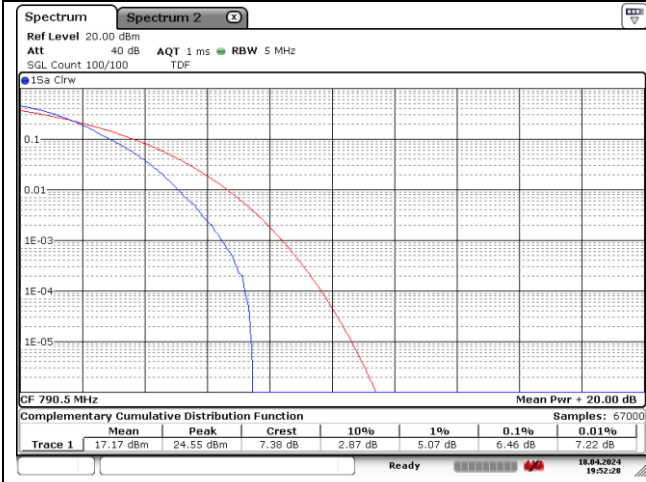


10 MHz Middle Channel - DFT-S-OFDM 256QAM

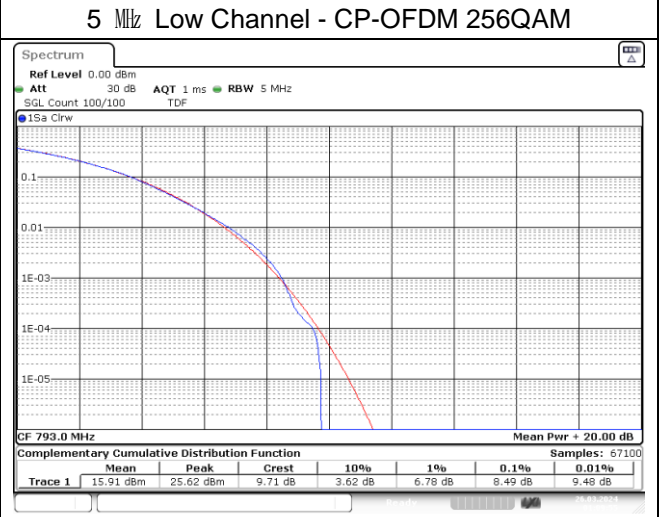
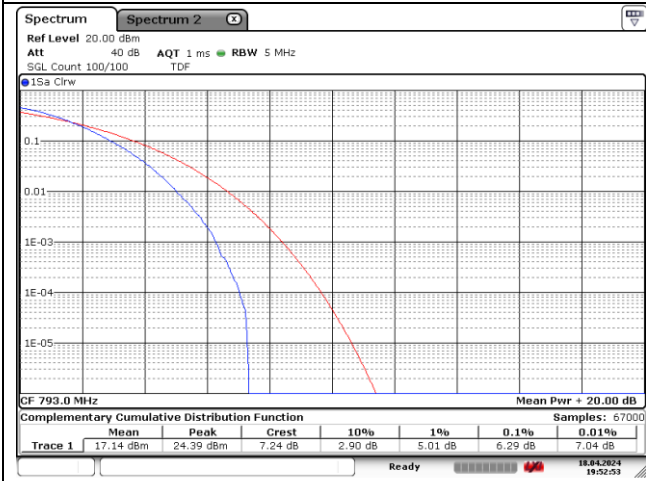


10 MHz Middle Channel - CP-OFDM 256QAM

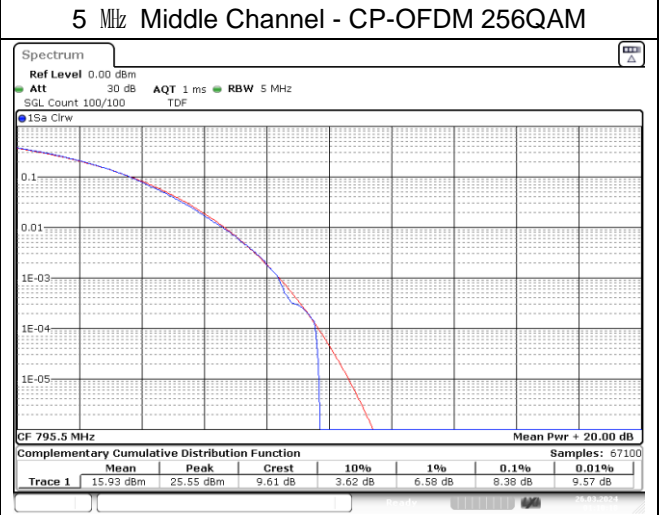
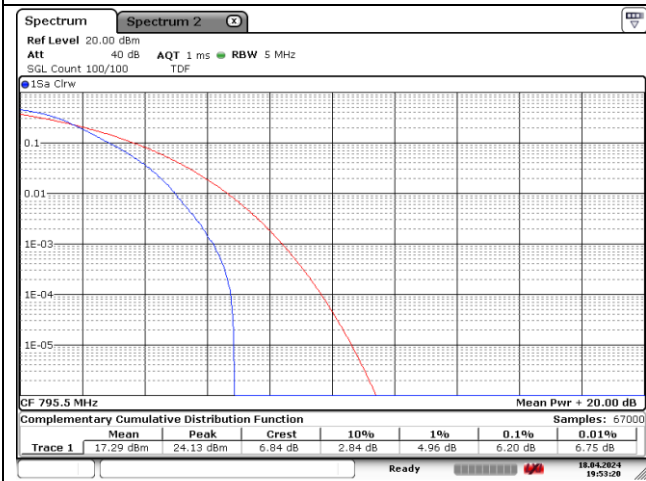
NR band 14



5 MHz Low Channel - DFT-S-OFDM 256QAM



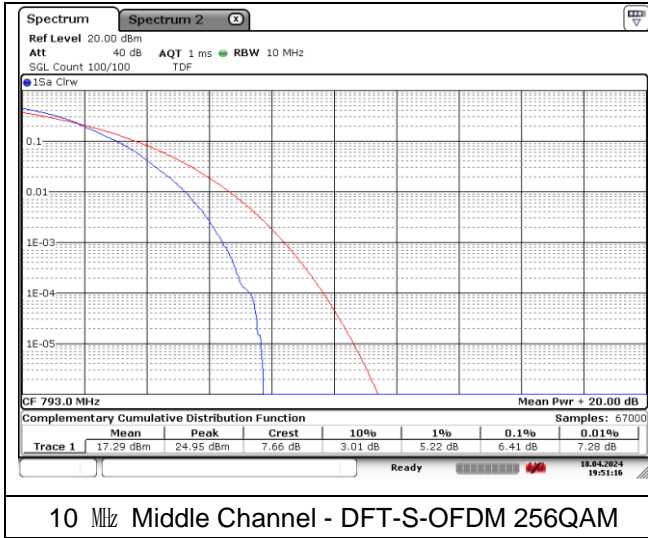
5 MHz Middle Channel - DFT-S-OFDM 256QAM



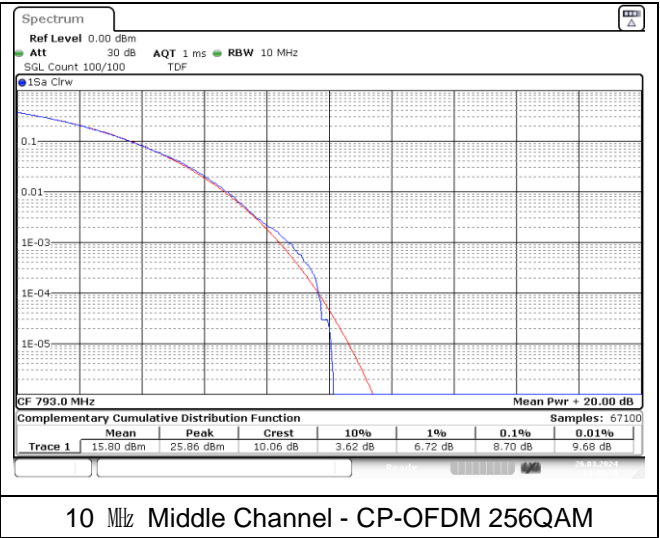
5 MHz High Channel - DFT-S-OFDM 256QAM

5 MHz High Channel - CP-OFDM 256QAM

NR band 14

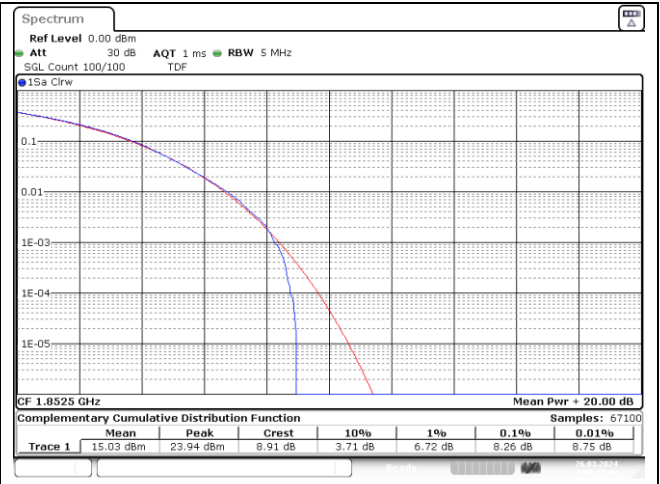
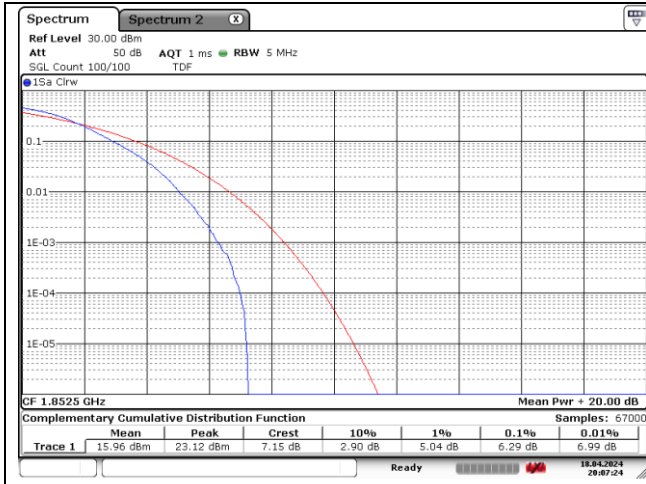


10 MHz Middle Channel - DFT-S-OFDM 256QAM

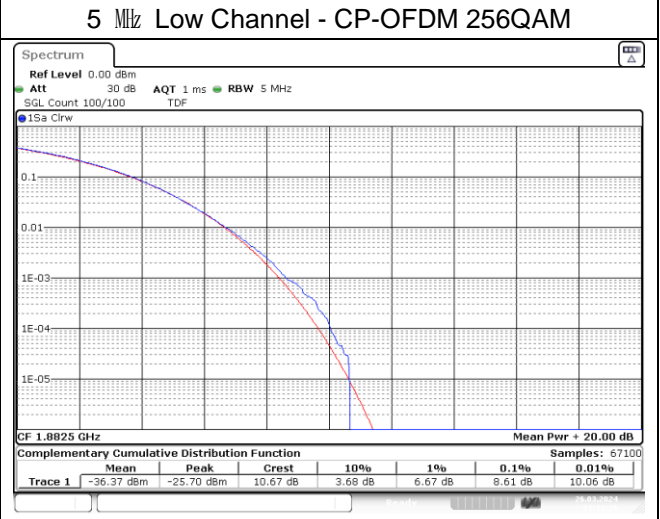
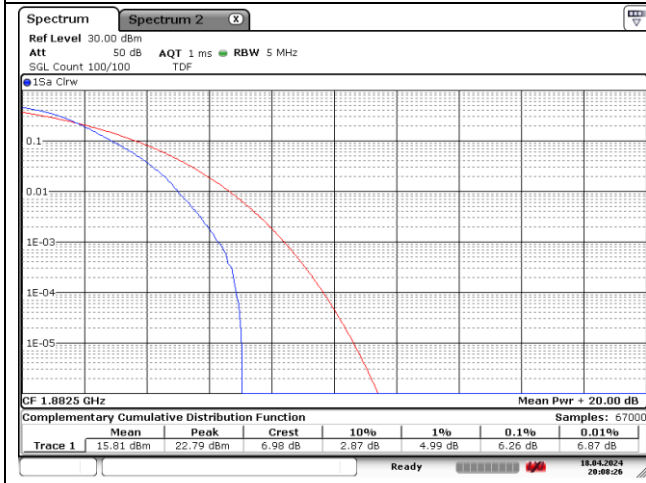


10 MHz Middle Channel - CP-OFDM 256QAM

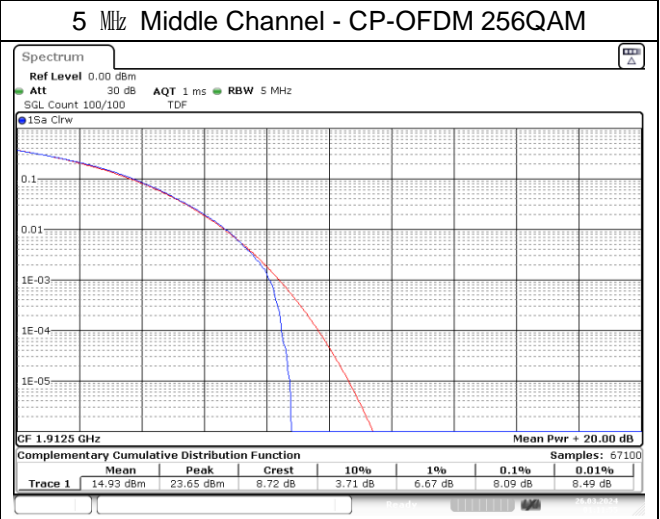
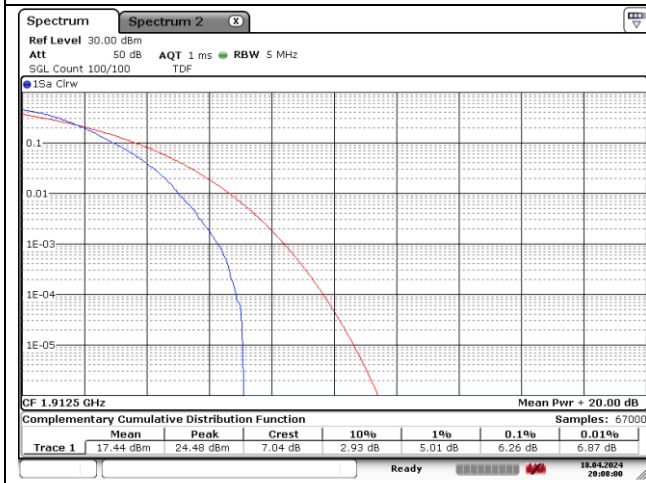
NR band 25/2



5 MHz Low Channel - DFT-S-OFDM 256QAM



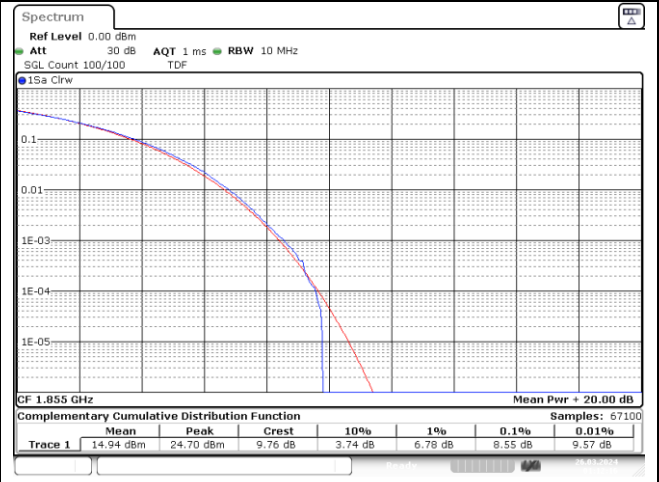
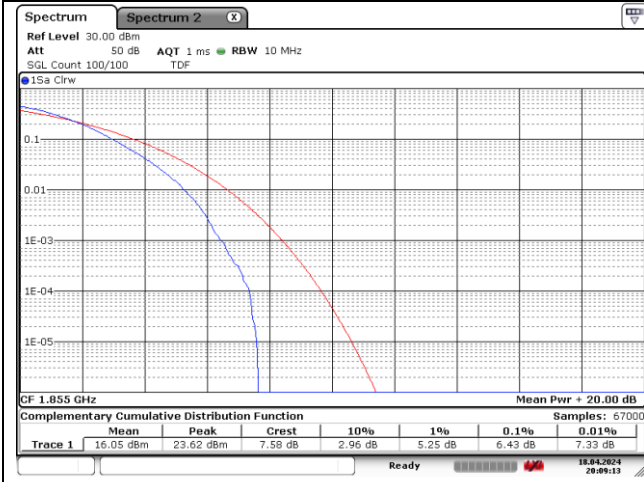
5 MHz Middle Channel - DFT-S-OFDM 256QAM



5 MHz High Channel - DFT-S-OFDM 256QAM

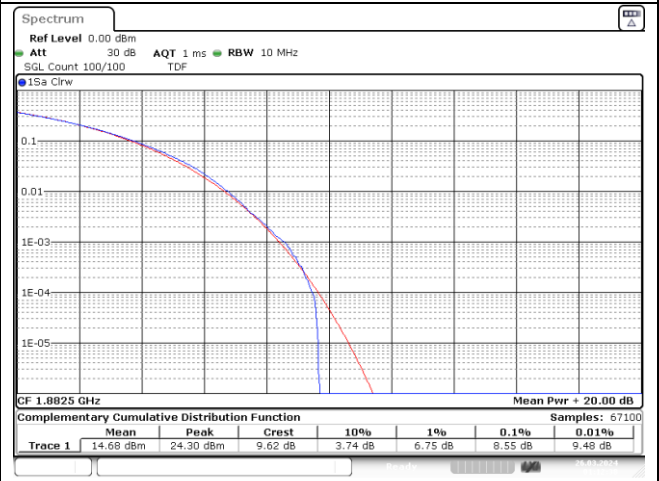
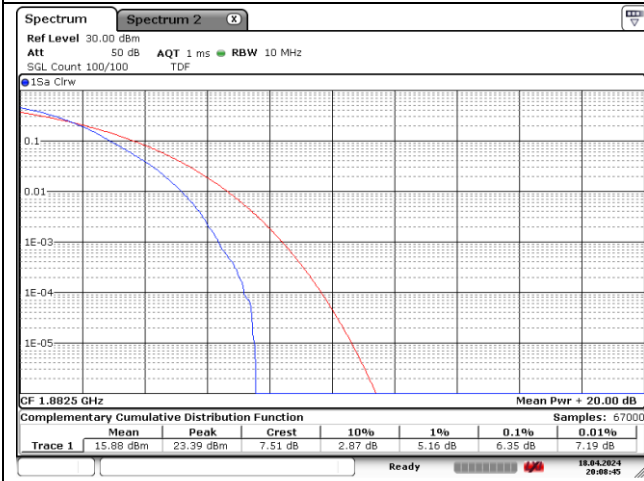
5 MHz High Channel - CP-OFDM 256QAM

NR band 25/2



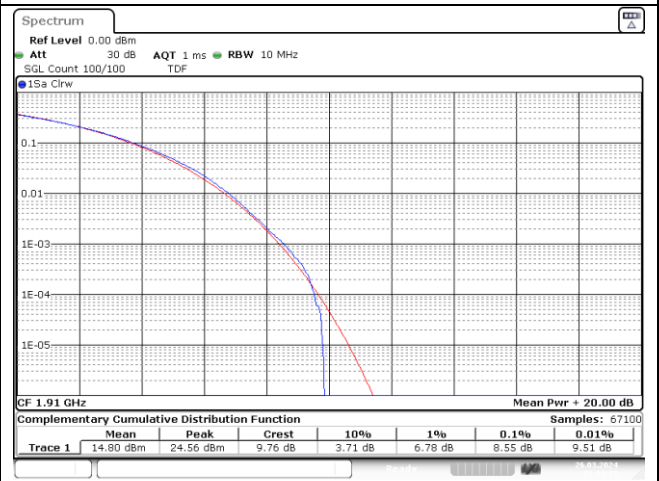
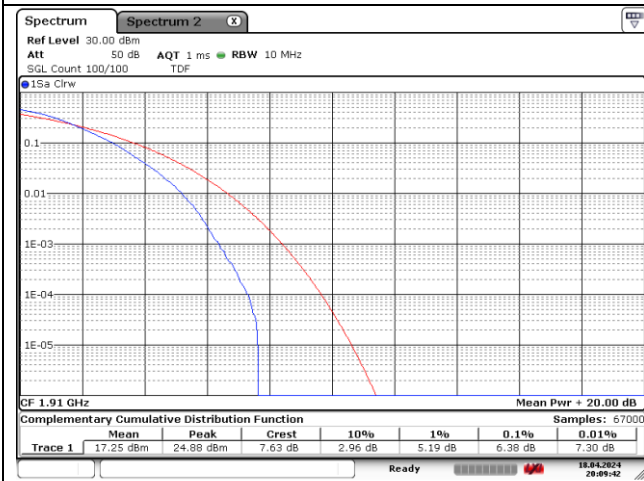
10 MHz Low Channel - DFT-S-OFDM 256QAM

10 MHz Low Channel - CP-OFDM 256QAM



10 MHz Middle Channel - DFT-S-OFDM 256QAM

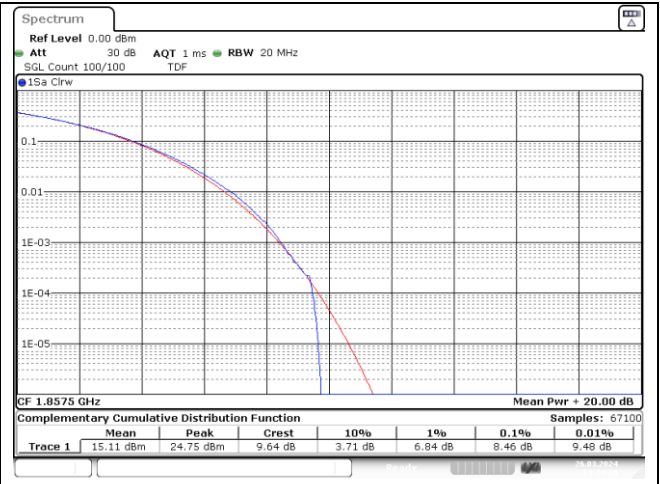
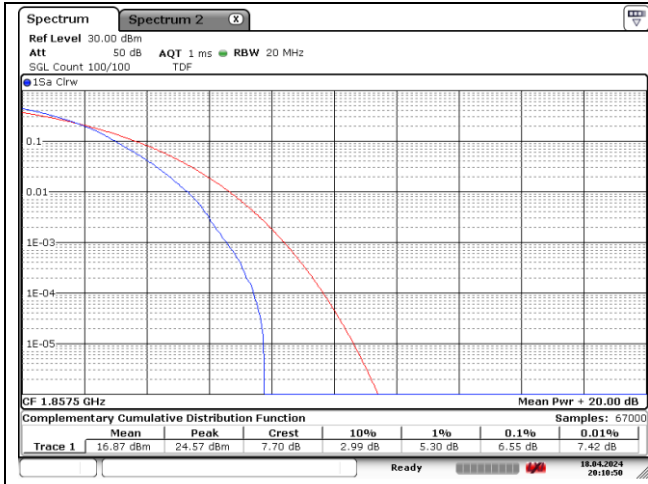
10 MHz Middle Channel - CP-OFDM 256QAM



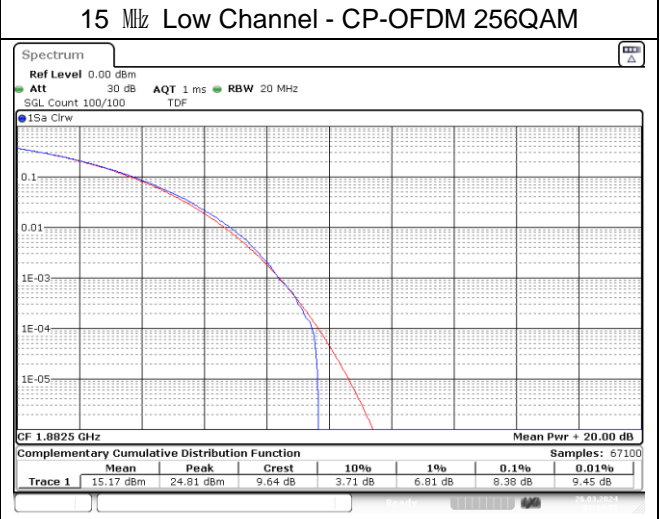
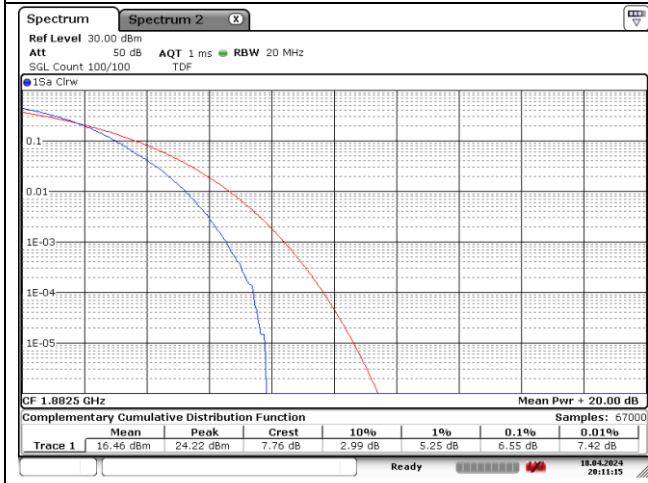
10 MHz High Channel - DFT-S-OFDM 256QAM

10 MHz High Channel - CP-OFDM 256QAM

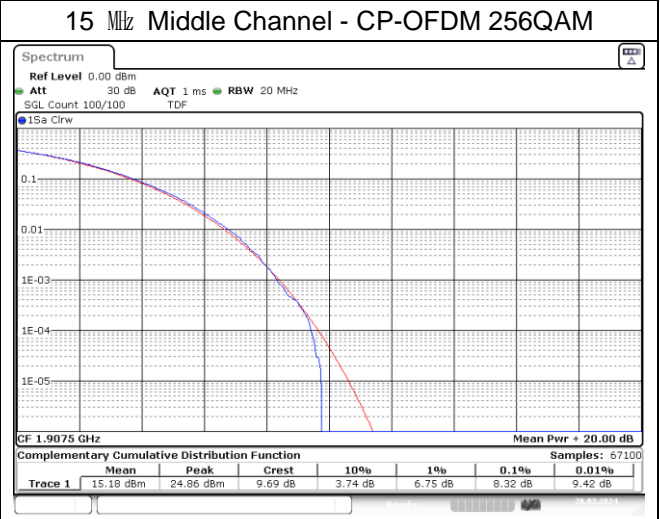
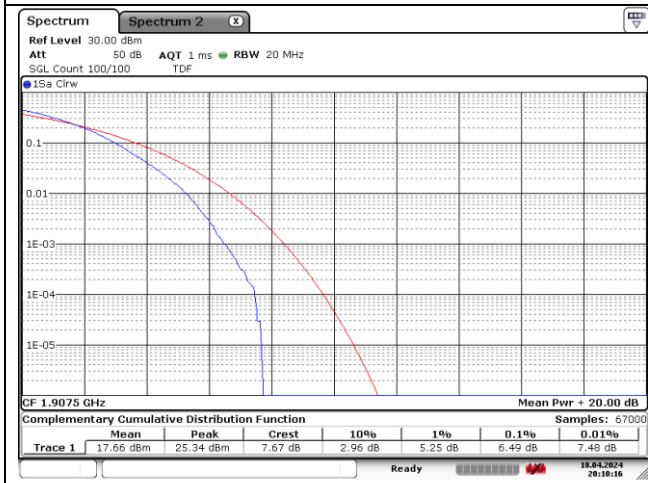
NR band 25/2



15 MHz Low Channel - DFT-S-OFDM 256QAM



15 MHz Middle Channel - DFT-S-OFDM 256QAM



15 MHz High Channel - DFT-S-OFDM 256QAM

15 MHz High Channel - CP-OFDM 256QAM