1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 30k_SISO_20MHz_NTNV_EIRP

5G NR n38 SCS=30kHz SISO 20MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Edge_1RB_Left	22.40	/	/	24.23	/	/	<=33	Pass
		Edge_1RB_Right	22.68	/	/	24.51	/	/	<=33	Pass
		Outer_Full	22.58	/	/	24.41	/	/	<=33	Pass
		Inner_Full	23.09	/	/	24.92	/	/	<=33	Pass
		Inner_1RB_Left	22.89	/	/	24.72	/	/	<=33	Pass
		Inner_1RB_Right	23.27	/	/	25.10	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.59	/	/	24.42	/	/	<=33	Pass
		Edge_1RB_Right	22.51	/	/	24.34	/	/	<=33	Pass
		Outer_Full	22.59	/	/	24.42	/	/	<=33	Pass
		Inner_Full	23.14	/	/	24.97	/	/	<=33	Pass
		Inner_1RB_Left	23.06	/	/	24.89	/	/	<=33	Pass
		Inner_1RB_Right	23.00	/	/	24.83	/	/	<=33	Pass
	2610	Edge_1RB_Left	22.61	/	/	24.44	/	/	<=33	Pass
		Edge_1RB_Right	22.74	/	/	24.57	/	/	<=33	Pass
		Outer_Full	22.60	/	/	24.43	/	/	<=33	Pass
		Inner_Full	23.08	/	/	24.91	/	/	<=33	Pass
		Inner_1RB_Left	23.06	/	/	24.89	/	/	<=33	Pass
		Inner_1RB_Right	23.13	/	/	24.96	/	/	<=33	Pass
DFT-s-OFDM QPSK	2580	Edge_1RB_Left	21.93	/	/	23.76	/	/	<=33	Pass
		Edge_1RB_Right	22.24	/	/	24.07	/	/	<=33	Pass
		Outer_Full	22.02	/	/	23.85	/	/	<=33	Pass
		Inner_Full	23.08	/	/	24.91	/	/	<=33	Pass
		Inner_1RB_Left	22.89	/	/	24.72	/	/	<=33	Pass
		Inner_1RB_Right	23.20	/	/	25.03	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.05	/	/	23.88	/	/	<=33	Pass
		Edge_1RB_Right	21.94	/	/	23.77	/	/	<=33	Pass
		Outer_Full	22.07	/	/	23.90	/	/	<=33	Pass
		Inner_Full	23.15	/	/	24.98	/	/	<=33	Pass
		Inner_1RB_Left	23.08	/	/	24.91	/	/	<=33	Pass
		Inner_1RB_Right	23.01	/	/	24.84	/	/	<=33	Pass
	2610	Edge_1RB_Left	22.07	/	/	23.90	/	/	<=33	Pass
		Edge_1RB_Right	22.25	/	/	24.08	/	/	<=33	Pass
		Outer_Full	22.06	/	/	23.89	/	/	<=33	Pass
		Inner_Full	23.09	/	/	24.92	/	/	<=33	Pass
		Inner_1RB_Left	23.06	/	/	24.89	/	/	<=33	Pass
		Inner_1RB_Right	23.12	/	/	24.95	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2580	Edge_1RB_Left	20.75	/	/	22.58	/	/	<=33	Pass
		Edge_1RB_Right	21.03	/	/	22.86	/	/	<=33	Pass
		Outer_Full	21.08	/	/	22.91	/	/	<=33	Pass
		Inner_Full	22.06	/	/	23.89	/	/	<=33	Pass
		Inner_1RB_Left	21.85	/	/	23.68	/	/	<=33	Pass
		Inner_1RB_Right	22.17	/	/	24.00	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.93	/	/	22.76	/	/	<=33	Pass
		Edge_1RB_Right	20.75	/	/	22.58	/	/	<=33	Pass
		Outer_Full	21.07	/	/	22.90	/	/	<=33	Pass
		Inner_Full	22.12	/	/	23.95	/	/	<=33	Pass
		Inner_1RB_Left	21.93	/	/	23.76	/	/	<=33	Pass
		Inner_1RB_Right	21.82	/	/	23.65	/	/	<=33	Pass
	2610	Edge_1RB_Left	20.99	/	/	22.82	/	/	<=33	Pass

		Edge_1RB_Right	21.05	/	/	22.88	/	/	<=33	Pass
		Outer_Full	21.09	/	/	22.92	/	/	<=33	Pass
		Inner_Full	22.08	/	/	23.91	/	/	<=33	Pass
		Inner_1RB_Left	22.00	/	/	23.83	/	/	<=33	Pass
		Inner_1RB_Right	22.05	/	/	23.88	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2580	Edge_1RB_Left	20.45	/	/	22.28	/	/	<=33	Pass
		Edge_1RB_Right	20.83	/	/	22.66	/	/	<=33	Pass
		Outer_Full	20.59	/	/	22.42	/	/	<=33	Pass
		Inner_Full	20.55	/	/	22.38	/	/	<=33	Pass
		Inner_1RB_Left	20.45	/	/	22.28	/	/	<=33	Pass
		Inner_1RB_Right	20.74	/	/	22.57	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.70	/	/	22.53	/	/	<=33	Pass
		Edge_1RB_Right	20.59	/	/	22.42	/	/	<=33	Pass
		Outer_Full	20.56	/	/	22.39	/	/	<=33	Pass
		Inner_Full	20.63	/	/	22.46	/	/	<=33	Pass
		Inner_1RB_Left	20.53	/	/	22.36	/	/	<=33	Pass
		Inner_1RB_Right	20.53	/	/	22.36	/	/	<=33	Pass
	2610	Edge_1RB_Left	20.64	/	/	22.47	/	/	<=33	Pass
		Edge_1RB_Right	20.75	/	/	22.58	/	/	<=33	Pass
		Outer_Full	20.58	/	/	22.41	/	/	<=33	Pass
		Inner_Full	20.54	/	/	22.37	/	/	<=33	Pass
		Inner_1RB_Left	20.64	/	/	22.47	/	/	<=33	Pass
		Inner_1RB_Right	20.74	/	/	22.57	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	2580	Edge_1RB_Left	18.32	/	/	20.15	/	/	<=33	Pass
		Edge_1RB_Right	18.58	/	/	20.41	/	/	<=33	Pass
		Outer_Full	18.53	/	/	20.36	/	/	<=33	Pass
		Inner_Full	18.59	/	/	20.42	/	/	<=33	Pass
		Inner_1RB_Left	18.21	/	/	20.04	/	/	<=33	Pass
		Inner_1RB_Right	18.57	/	/	20.40	/	/	<=33	Pass
	2595	Edge_1RB_Left	18.47	/	/	20.30	/	/	<=33	Pass
		Edge_1RB_Right	18.32	/	/	20.15	/	/	<=33	Pass
		Outer_Full	18.64	/	/	20.47	/	/	<=33	Pass
		Inner_Full	18.66	/	/	20.49	/	/	<=33	Pass
		Inner_1RB_Left	18.44	/	/	20.27	/	/	<=33	Pass
		Inner_1RB_Right	18.41	/	/	20.24	/	/	<=33	Pass
	2610	Edge_1RB_Left	18.46	/	/	20.29	/	/	<=33	Pass
		Edge_1RB_Right	18.55	/	/	20.38	/	/	<=33	Pass
		Outer_Full	18.59	/	/	20.42	/	/	<=33	Pass
		Inner_Full	18.60	/	/	20.43	/	/	<=33	Pass
		Inner_1RB_Left	18.44	/	/	20.27	/	/	<=33	Pass
		Inner_1RB_Right	18.54	/	/	20.37	/	/	<=33	Pass
CP-OFDM QPSK	2580	Edge_1RB_Left	19.91	/	/	21.74	/	/	<=33	Pass
		Edge_1RB_Right	20.28	/	/	22.11	/	/	<=33	Pass
		Outer_Full	20.07	/	/	21.90	/	/	<=33	Pass
		Inner_Full	21.55	/	/	23.38	/	/	<=33	Pass
		Inner_1RB_Left	21.34	/	/	23.17	/	/	<=33	Pass
		Inner_1RB_Right	21.73	/	/	23.56	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.12	/	/	21.95	/	/	<=33	Pass
		Edge_1RB_Right	20.08	/	/	21.91	/	/	<=33	Pass
		Outer_Full	20.10	/	/	21.93	/	/	<=33	Pass
		Inner_Full	21.65	/	/	23.48	/	/	<=33	Pass
		Inner_1RB_Left	21.61	/	/	23.44	/	/	<=33	Pass
		Inner_1RB_Right	21.54	/	/	23.37	/	/	<=33	Pass
	2610	Edge_1RB_Left	20.07	/	/	21.90	/	/	<=33	Pass
		Edge_1RB_Right	20.11	/	/	21.94	/	/	<=33	Pass
		Outer_Full	20.06	/	/	21.89	/	/	<=33	Pass
		Inner_Full	21.55	/	/	23.38	/	/	<=33	Pass
		Inner_1RB_Left	21.48	/	/	23.31	/	/	<=33	Pass
		Inner_1RB_Right	21.70	/	/	23.53	/	/	<=33	Pass

CP-OFDM 16 QAM	2580	Edge_1RB_Left	19.84	/	/	21.67	/	/	<=33	Pass
		Edge_1RB_Right	20.15	/	/	21.98	/	/	<=33	Pass
		Outer_Full	20.06	/	/	21.89	/	/	<=33	Pass
		Inner_Full	21.02	/	/	22.85	/	/	<=33	Pass
		Inner_1RB_Left	20.78	/	/	22.61	/	/	<=33	Pass
		Inner_1RB_Right	21.10	/	/	22.93	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.04	/	/	21.87	/	/	<=33	Pass
		Edge_1RB_Right	19.93	/	/	21.76	/	/	<=33	Pass
		Outer_Full	20.11	/	/	21.94	/	/	<=33	Pass
		Inner_Full	21.11	/	/	22.94	/	/	<=33	Pass
		Inner_1RB_Left	20.97	/	/	22.80	/	/	<=33	Pass
		Inner_1RB_Right	20.97	/	/	22.80	/	/	<=33	Pass
	2610	Edge_1RB_Left	19.93	/	/	21.76	/	/	<=33	Pass
		Edge_1RB_Right	20.08	/	/	21.91	/	/	<=33	Pass
		Outer_Full	20.06	/	/	21.89	/	/	<=33	Pass
		Inner_Full	21.04	/	/	22.87	/	/	<=33	Pass
		Inner_1RB_Left	20.98	/	/	22.81	/	/	<=33	Pass
		Inner_1RB_Right	21.02	/	/	22.85	/	/	<=33	Pass
CP-OFDM 64 QAM	2580	Edge_1RB_Left	19.46	/	/	21.29	/	/	<=33	Pass
		Edge_1RB_Right	19.78	/	/	21.61	/	/	<=33	Pass
		Outer_Full	19.51	/	/	21.34	/	/	<=33	Pass
		Inner_Full	19.51	/	/	21.34	/	/	<=33	Pass
		Inner_1RB_Left	19.40	/	/	21.23	/	/	<=33	Pass
		Inner_1RB_Right	19.79	/	/	21.62	/	/	<=33	Pass
	2595	Edge_1RB_Left	19.59	/	/	21.42	/	/	<=33	Pass
		Edge_1RB_Right	19.59	/	/	21.42	/	/	<=33	Pass
		Outer_Full	19.53	/	/	21.36	/	/	<=33	Pass
		Inner_Full	19.64	/	/	21.47	/	/	<=33	Pass
		Inner_1RB_Left	19.69	/	/	21.52	/	/	<=33	Pass
		Inner_1RB_Right	19.51	/	/	21.34	/	/	<=33	Pass
	2610	Edge_1RB_Left	19.57	/	/	21.40	/	/	<=33	Pass
		Edge_1RB_Right	19.71	/	/	21.54	/	/	<=33	Pass
		Outer_Full	19.57	/	/	21.40	/	/	<=33	Pass
		Inner_Full	19.58	/	/	21.41	/	/	<=33	Pass
		Inner_1RB_Left	19.61	/	/	21.44	/	/	<=33	Pass
		Inner_1RB_Right	19.69	/	/	21.52	/	/	<=33	Pass
CP-OFDM 256 QAM	2580	Edge_1RB_Left	16.40	/	/	18.23	/	/	<=33	Pass
		Edge_1RB_Right	16.73	/	/	18.56	/	/	<=33	Pass
		Outer_Full	16.55	/	/	18.38	/	/	<=33	Pass
		Inner_Full	16.59	/	/	18.42	/	/	<=33	Pass
		Inner_1RB_Left	16.37	/	/	18.20	/	/	<=33	Pass
		Inner_1RB_Right	16.69	/	/	18.52	/	/	<=33	Pass
	2595	Edge_1RB_Left	16.56	/	/	18.39	/	/	<=33	Pass
		Edge_1RB_Right	16.51	/	/	18.34	/	/	<=33	Pass
		Outer_Full	16.63	/	/	18.46	/	/	<=33	Pass
		Inner_Full	16.69	/	/	18.52	/	/	<=33	Pass
		Inner_1RB_Left	16.57	/	/	18.40	/	/	<=33	Pass
		Inner_1RB_Right	16.39	/	/	18.22	/	/	<=33	Pass
	2610	Edge_1RB_Left	16.51	/	/	18.34	/	/	<=33	Pass
		Edge_1RB_Right	16.57	/	/	18.40	/	/	<=33	Pass
		Outer_Full	16.55	/	/	18.38	/	/	<=33	Pass
		Inner_Full	16.68	/	/	18.51	/	/	<=33	Pass
		Inner_1RB_Left	16.48	/	/	18.31	/	/	<=33	Pass
		Inner_1RB_Right	16.61	/	/	18.44	/	/	<=33	Pass
Note1: Antenna Gain: Ant1: 1.83dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.2 30k_SISO_30MHz_NTNV_EIRP

5G NR n38 SCS=30kHz SISO 30MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Edge_1RB_Left	22.43	/	/	24.26	/	/	<=33	Pass
		Edge_1RB_Right	22.70	/	/	24.53	/	/	<=33	Pass
		Outer_Full	22.56	/	/	24.39	/	/	<=33	Pass
		Inner_Full	23.04	/	/	24.87	/	/	<=33	Pass
		Inner_1RB_Left	22.89	/	/	24.72	/	/	<=33	Pass
		Inner_1RB_Right	23.20	/	/	25.03	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.55	/	/	24.38	/	/	<=33	Pass
		Edge_1RB_Right	22.61	/	/	24.44	/	/	<=33	Pass
		Outer_Full	22.56	/	/	24.39	/	/	<=33	Pass
		Inner_Full	23.13	/	/	24.96	/	/	<=33	Pass
		Inner_1RB_Left	23.04	/	/	24.87	/	/	<=33	Pass
		Inner_1RB_Right	23.04	/	/	24.87	/	/	<=33	Pass
	2605	Edge_1RB_Left	22.77	/	/	24.60	/	/	<=33	Pass
		Edge_1RB_Right	22.65	/	/	24.48	/	/	<=33	Pass
		Outer_Full	22.64	/	/	24.47	/	/	<=33	Pass
		Inner_Full	23.11	/	/	24.94	/	/	<=33	Pass
		Inner_1RB_Left	23.19	/	/	25.02	/	/	<=33	Pass
		Inner_1RB_Right	23.21	/	/	25.04	/	/	<=33	Pass
DFT-s-OFDM QPSK	2585	Edge_1RB_Left	21.80	/	/	23.63	/	/	<=33	Pass
		Edge_1RB_Right	22.14	/	/	23.97	/	/	<=33	Pass
		Outer_Full	22.05	/	/	23.88	/	/	<=33	Pass
		Inner_Full	23.04	/	/	24.87	/	/	<=33	Pass
		Inner_1RB_Left	22.88	/	/	24.71	/	/	<=33	Pass
		Inner_1RB_Right	23.20	/	/	25.03	/	/	<=33	Pass
	2595	Edge_1RB_Left	21.95	/	/	23.78	/	/	<=33	Pass
		Edge_1RB_Right	22.04	/	/	23.87	/	/	<=33	Pass
		Outer_Full	22.08	/	/	23.91	/	/	<=33	Pass
		Inner_Full	23.09	/	/	24.92	/	/	<=33	Pass
		Inner_1RB_Left	23.06	/	/	24.89	/	/	<=33	Pass
		Inner_1RB_Right	23.12	/	/	24.95	/	/	<=33	Pass
	2605	Edge_1RB_Left	22.13	/	/	23.96	/	/	<=33	Pass
		Edge_1RB_Right	22.14	/	/	23.97	/	/	<=33	Pass
		Outer_Full	22.14	/	/	23.97	/	/	<=33	Pass
		Inner_Full	23.15	/	/	24.98	/	/	<=33	Pass
		Inner_1RB_Left	23.19	/	/	25.02	/	/	<=33	Pass
		Inner_1RB_Right	23.14	/	/	24.97	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2585	Edge_1RB_Left	20.87	/	/	22.70	/	/	<=33	Pass
		Edge_1RB_Right	21.08	/	/	22.91	/	/	<=33	Pass
		Outer_Full	21.09	/	/	22.92	/	/	<=33	Pass
		Inner_Full	21.99	/	/	23.82	/	/	<=33	Pass
		Inner_1RB_Left	21.80	/	/	23.63	/	/	<=33	Pass
		Inner_1RB_Right	22.13	/	/	23.96	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.95	/	/	22.78	/	/	<=33	Pass
		Edge_1RB_Right	21.05	/	/	22.88	/	/	<=33	Pass
		Outer_Full	21.17	/	/	23.00	/	/	<=33	Pass
		Inner_Full	22.05	/	/	23.88	/	/	<=33	Pass
		Inner_1RB_Left	21.94	/	/	23.77	/	/	<=33	Pass
		Inner_1RB_Right	21.96	/	/	23.79	/	/	<=33	Pass
	2605	Edge_1RB_Left	20.98	/	/	22.81	/	/	<=33	Pass
		Edge_1RB_Right	21.03	/	/	22.86	/	/	<=33	Pass
		Outer_Full	21.17	/	/	23.00	/	/	<=33	Pass
		Inner_Full	22.06	/	/	23.89	/	/	<=33	Pass
		Inner_1RB_Left	21.99	/	/	23.82	/	/	<=33	Pass
		Inner_1RB_Right	22.01	/	/	23.84	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2585	Edge_1RB_Left	20.50	/	/	22.33	/	/	<=33	Pass
		Edge_1RB_Right	20.78	/	/	22.61	/	/	<=33	Pass

		Outer_Full	20.57	/	/	22.40	/	/	<=33	Pass
		Inner_Full	20.57	/	/	22.40	/	/	<=33	Pass
		Inner_1RB_Left	20.49	/	/	22.32	/	/	<=33	Pass
		Inner_1RB_Right	20.81	/	/	22.64	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.68	/	/	22.51	/	/	<=33	Pass
		Edge_1RB_Right	20.70	/	/	22.53	/	/	<=33	Pass
		Outer_Full	20.65	/	/	22.48	/	/	<=33	Pass
		Inner_Full	20.66	/	/	22.49	/	/	<=33	Pass
		Inner_1RB_Left	20.69	/	/	22.52	/	/	<=33	Pass
		Inner_1RB_Right	20.65	/	/	22.48	/	/	<=33	Pass
	2605	Edge_1RB_Left	20.67	/	/	22.50	/	/	<=33	Pass
		Edge_1RB_Right	20.67	/	/	22.50	/	/	<=33	Pass
		Outer_Full	20.65	/	/	22.48	/	/	<=33	Pass
		Inner_Full	20.62	/	/	22.45	/	/	<=33	Pass
		Inner_1RB_Left	20.64	/	/	22.47	/	/	<=33	Pass
		Inner_1RB_Right	20.76	/	/	22.59	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	2585	Edge_1RB_Left	18.23	/	/	20.06	/	/	<=33	Pass
		Edge_1RB_Right	18.56	/	/	20.39	/	/	<=33	Pass
		Outer_Full	18.56	/	/	20.39	/	/	<=33	Pass
		Inner_Full	18.47	/	/	20.30	/	/	<=33	Pass
		Inner_1RB_Left	18.22	/	/	20.05	/	/	<=33	Pass
		Inner_1RB_Right	18.52	/	/	20.35	/	/	<=33	Pass
	2595	Edge_1RB_Left	18.40	/	/	20.23	/	/	<=33	Pass
		Edge_1RB_Right	18.47	/	/	20.30	/	/	<=33	Pass
		Outer_Full	18.57	/	/	20.40	/	/	<=33	Pass
		Inner_Full	18.63	/	/	20.46	/	/	<=33	Pass
		Inner_1RB_Left	18.38	/	/	20.21	/	/	<=33	Pass
		Inner_1RB_Right	18.47	/	/	20.30	/	/	<=33	Pass
	2605	Edge_1RB_Left	18.53	/	/	20.36	/	/	<=33	Pass
		Edge_1RB_Right	18.53	/	/	20.36	/	/	<=33	Pass
		Outer_Full	18.60	/	/	20.43	/	/	<=33	Pass
		Inner_Full	18.51	/	/	20.34	/	/	<=33	Pass
		Inner_1RB_Left	18.49	/	/	20.32	/	/	<=33	Pass
		Inner_1RB_Right	18.51	/	/	20.34	/	/	<=33	Pass
CP-OFDM QPSK	2585	Edge_1RB_Left	19.85	/	/	21.68	/	/	<=33	Pass
		Edge_1RB_Right	20.22	/	/	22.05	/	/	<=33	Pass
		Outer_Full	20.00	/	/	21.83	/	/	<=33	Pass
		Inner_Full	21.52	/	/	23.35	/	/	<=33	Pass
		Inner_1RB_Left	21.32	/	/	23.15	/	/	<=33	Pass
		Inner_1RB_Right	21.66	/	/	23.49	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.07	/	/	21.90	/	/	<=33	Pass
		Edge_1RB_Right	20.08	/	/	21.91	/	/	<=33	Pass
		Outer_Full	20.21	/	/	22.04	/	/	<=33	Pass
		Inner_Full	21.72	/	/	23.55	/	/	<=33	Pass
		Inner_1RB_Left	21.57	/	/	23.40	/	/	<=33	Pass
		Inner_1RB_Right	21.59	/	/	23.42	/	/	<=33	Pass
	2605	Edge_1RB_Left	20.19	/	/	22.02	/	/	<=33	Pass
		Edge_1RB_Right	20.21	/	/	22.04	/	/	<=33	Pass
		Outer_Full	20.13	/	/	21.96	/	/	<=33	Pass
		Inner_Full	21.61	/	/	23.44	/	/	<=33	Pass
		Inner_1RB_Left	21.63	/	/	23.46	/	/	<=33	Pass
		Inner_1RB_Right	21.60	/	/	23.43	/	/	<=33	Pass
CP-OFDM 16 QAM	2585	Edge_1RB_Left	19.79	/	/	21.62	/	/	<=33	Pass
		Edge_1RB_Right	20.06	/	/	21.89	/	/	<=33	Pass
		Outer_Full	20.10	/	/	21.93	/	/	<=33	Pass
		Inner_Full	21.05	/	/	22.88	/	/	<=33	Pass
		Inner_1RB_Left	20.85	/	/	22.68	/	/	<=33	Pass
		Inner_1RB_Right	21.24	/	/	23.07	/	/	<=33	Pass
	2595	Edge_1RB_Left	19.89	/	/	21.72	/	/	<=33	Pass

		Edge_1RB_Right	19.95	/	/	21.78	/	/	<=33	Pass
		Outer_Full	20.21	/	/	22.04	/	/	<=33	Pass
		Inner_Full	21.19	/	/	23.02	/	/	<=33	Pass
		Inner_1RB_Left	20.91	/	/	22.74	/	/	<=33	Pass
		Inner_1RB_Right	20.97	/	/	22.80	/	/	<=33	Pass
	2605	Edge_1RB_Left	20.03	/	/	21.86	/	/	<=33	Pass
		Edge_1RB_Right	20.06	/	/	21.89	/	/	<=33	Pass
		Outer_Full	20.24	/	/	22.07	/	/	<=33	Pass
		Inner_Full	21.09	/	/	22.92	/	/	<=33	Pass
		Inner_1RB_Left	21.15	/	/	22.98	/	/	<=33	Pass
		Inner_1RB_Right	21.06	/	/	22.89	/	/	<=33	Pass
CP-OFDM 64 QAM	2585	Edge_1RB_Left	19.50	/	/	21.33	/	/	<=33	Pass
		Edge_1RB_Right	19.88	/	/	21.71	/	/	<=33	Pass
		Outer_Full	19.60	/	/	21.43	/	/	<=33	Pass
		Inner_Full	19.50	/	/	21.33	/	/	<=33	Pass
		Inner_1RB_Left	19.42	/	/	21.25	/	/	<=33	Pass
		Inner_1RB_Right	19.75	/	/	21.58	/	/	<=33	Pass
	2595	Edge_1RB_Left	19.56	/	/	21.39	/	/	<=33	Pass
		Edge_1RB_Right	19.70	/	/	21.53	/	/	<=33	Pass
		Outer_Full	19.72	/	/	21.55	/	/	<=33	Pass
		Inner_Full	19.73	/	/	21.56	/	/	<=33	Pass
		Inner_1RB_Left	19.68	/	/	21.51	/	/	<=33	Pass
		Inner_1RB_Right	19.65	/	/	21.48	/	/	<=33	Pass
	2605	Edge_1RB_Left	19.80	/	/	21.63	/	/	<=33	Pass
		Edge_1RB_Right	19.87	/	/	21.70	/	/	<=33	Pass
		Outer_Full	19.72	/	/	21.55	/	/	<=33	Pass
		Inner_Full	19.59	/	/	21.42	/	/	<=33	Pass
		Inner_1RB_Left	19.82	/	/	21.65	/	/	<=33	Pass
		Inner_1RB_Right	19.79	/	/	21.62	/	/	<=33	Pass
CP-OFDM 256 QAM	2585	Edge_1RB_Left	16.37	/	/	18.20	/	/	<=33	Pass
		Edge_1RB_Right	16.74	/	/	18.57	/	/	<=33	Pass
		Outer_Full	16.58	/	/	18.41	/	/	<=33	Pass
		Inner_Full	16.56	/	/	18.39	/	/	<=33	Pass
		Inner_1RB_Left	16.40	/	/	18.23	/	/	<=33	Pass
		Inner_1RB_Right	16.62	/	/	18.45	/	/	<=33	Pass
	2595	Edge_1RB_Left	16.46	/	/	18.29	/	/	<=33	Pass
		Edge_1RB_Right	16.59	/	/	18.42	/	/	<=33	Pass
		Outer_Full	16.75	/	/	18.58	/	/	<=33	Pass
		Inner_Full	16.75	/	/	18.58	/	/	<=33	Pass
		Inner_1RB_Left	16.57	/	/	18.40	/	/	<=33	Pass
		Inner_1RB_Right	16.51	/	/	18.34	/	/	<=33	Pass
	2605	Edge_1RB_Left	16.72	/	/	18.55	/	/	<=33	Pass
		Edge_1RB_Right	16.65	/	/	18.48	/	/	<=33	Pass
		Outer_Full	16.69	/	/	18.52	/	/	<=33	Pass
		Inner_Full	16.62	/	/	18.45	/	/	<=33	Pass
		Inner_1RB_Left	16.64	/	/	18.47	/	/	<=33	Pass
		Inner_1RB_Right	16.64	/	/	18.47	/	/	<=33	Pass
Note1: Antenna Gain: Ant1: 1.83dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.3 30k_SISO_40MHz_NTNV_EIRP

5G NR n38 SCS=30kHz SISO 40MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Edge_1RB_Left	22.43	/	/	24.26	/	/	<=33	Pass
		Edge_1RB_Right	22.63	/	/	24.46	/	/	<=33	Pass
		Outer_Full	22.64	/	/	24.47	/	/	<=33	Pass

		Inner_Full	23.17	/	/	25.00	/	/	<=33	Pass
		Inner_1RB_Left	22.97	/	/	24.80	/	/	<=33	Pass
		Inner_1RB_Right	23.14	/	/	24.97	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.37	/	/	24.20	/	/	<=33	Pass
		Edge_1RB_Right	22.56	/	/	24.39	/	/	<=33	Pass
		Outer_Full	22.55	/	/	24.38	/	/	<=33	Pass
		Inner_Full	23.11	/	/	24.94	/	/	<=33	Pass
		Inner_1RB_Left	22.82	/	/	24.65	/	/	<=33	Pass
		Inner_1RB_Right	23.04	/	/	24.87	/	/	<=33	Pass
	2600	Edge_1RB_Left	22.50	/	/	24.33	/	/	<=33	Pass
		Edge_1RB_Right	22.67	/	/	24.50	/	/	<=33	Pass
		Outer_Full	22.66	/	/	24.49	/	/	<=33	Pass
		Inner_Full	23.11	/	/	24.94	/	/	<=33	Pass
		Inner_1RB_Left	23.04	/	/	24.87	/	/	<=33	Pass
		Inner_1RB_Right	23.16	/	/	24.99	/	/	<=33	Pass
DFT-s-OFDM QPSK	2590	Edge_1RB_Left	21.90	/	/	23.73	/	/	<=33	Pass
		Edge_1RB_Right	22.10	/	/	23.93	/	/	<=33	Pass
		Outer_Full	22.09	/	/	23.92	/	/	<=33	Pass
		Inner_Full	23.15	/	/	24.98	/	/	<=33	Pass
		Inner_1RB_Left	22.95	/	/	24.78	/	/	<=33	Pass
		Inner_1RB_Right	23.16	/	/	24.99	/	/	<=33	Pass
	2595	Edge_1RB_Left	21.76	/	/	23.59	/	/	<=33	Pass
		Edge_1RB_Right	22.06	/	/	23.89	/	/	<=33	Pass
		Outer_Full	22.06	/	/	23.89	/	/	<=33	Pass
		Inner_Full	23.07	/	/	24.90	/	/	<=33	Pass
		Inner_1RB_Left	22.81	/	/	24.64	/	/	<=33	Pass
		Inner_1RB_Right	23.07	/	/	24.90	/	/	<=33	Pass
	2600	Edge_1RB_Left	22.01	/	/	23.84	/	/	<=33	Pass
		Edge_1RB_Right	22.20	/	/	24.03	/	/	<=33	Pass
		Outer_Full	22.07	/	/	23.90	/	/	<=33	Pass
		Inner_Full	23.20	/	/	25.03	/	/	<=33	Pass
		Inner_1RB_Left	23.06	/	/	24.89	/	/	<=33	Pass
		Inner_1RB_Right	23.22	/	/	25.05	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2590	Edge_1RB_Left	20.79	/	/	22.62	/	/	<=33	Pass
		Edge_1RB_Right	21.04	/	/	22.87	/	/	<=33	Pass
		Outer_Full	21.11	/	/	22.94	/	/	<=33	Pass
		Inner_Full	22.19	/	/	24.02	/	/	<=33	Pass
		Inner_1RB_Left	21.67	/	/	23.50	/	/	<=33	Pass
		Inner_1RB_Right	22.00	/	/	23.83	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.73	/	/	22.56	/	/	<=33	Pass
		Edge_1RB_Right	20.95	/	/	22.78	/	/	<=33	Pass
		Outer_Full	21.04	/	/	22.87	/	/	<=33	Pass
		Inner_Full	22.12	/	/	23.95	/	/	<=33	Pass
		Inner_1RB_Left	21.64	/	/	23.47	/	/	<=33	Pass
		Inner_1RB_Right	21.90	/	/	23.73	/	/	<=33	Pass
	2600	Edge_1RB_Left	20.96	/	/	22.79	/	/	<=33	Pass
		Edge_1RB_Right	21.12	/	/	22.95	/	/	<=33	Pass
		Outer_Full	21.13	/	/	22.96	/	/	<=33	Pass
		Inner_Full	22.17	/	/	24.00	/	/	<=33	Pass
		Inner_1RB_Left	21.94	/	/	23.77	/	/	<=33	Pass
		Inner_1RB_Right	22.03	/	/	23.86	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2590	Edge_1RB_Left	20.42	/	/	22.25	/	/	<=33	Pass
		Edge_1RB_Right	20.70	/	/	22.53	/	/	<=33	Pass
		Outer_Full	20.61	/	/	22.44	/	/	<=33	Pass
		Inner_Full	20.72	/	/	22.55	/	/	<=33	Pass
		Inner_1RB_Left	20.41	/	/	22.24	/	/	<=33	Pass
		Inner_1RB_Right	20.80	/	/	22.63	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.36	/	/	22.19	/	/	<=33	Pass
		Edge_1RB_Right	20.68	/	/	22.51	/	/	<=33	Pass

		Outer_Full	20.64	/	/	22.47	/	/	<=33	Pass
		Inner_Full	20.62	/	/	22.45	/	/	<=33	Pass
		Inner_1RB_Left	20.36	/	/	22.19	/	/	<=33	Pass
		Inner_1RB_Right	20.65	/	/	22.48	/	/	<=33	Pass
	2600	Edge_1RB_Left	20.69	/	/	22.52	/	/	<=33	Pass
		Edge_1RB_Right	20.84	/	/	22.67	/	/	<=33	Pass
		Outer_Full	20.67	/	/	22.50	/	/	<=33	Pass
		Inner_Full	20.75	/	/	22.58	/	/	<=33	Pass
		Inner_1RB_Left	20.67	/	/	22.50	/	/	<=33	Pass
		Inner_1RB_Right	20.81	/	/	22.64	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	2590	Edge_1RB_Left	18.34	/	/	20.17	/	/	<=33	Pass
		Edge_1RB_Right	18.50	/	/	20.33	/	/	<=33	Pass
		Outer_Full	18.61	/	/	20.44	/	/	<=33	Pass
		Inner_Full	18.69	/	/	20.52	/	/	<=33	Pass
		Inner_1RB_Left	18.37	/	/	20.20	/	/	<=33	Pass
		Inner_1RB_Right	18.51	/	/	20.34	/	/	<=33	Pass
	2595	Edge_1RB_Left	18.19	/	/	20.02	/	/	<=33	Pass
		Edge_1RB_Right	18.47	/	/	20.30	/	/	<=33	Pass
		Outer_Full	18.53	/	/	20.36	/	/	<=33	Pass
		Inner_Full	18.61	/	/	20.44	/	/	<=33	Pass
		Inner_1RB_Left	18.17	/	/	20.00	/	/	<=33	Pass
		Inner_1RB_Right	18.44	/	/	20.27	/	/	<=33	Pass
	2600	Edge_1RB_Left	18.43	/	/	20.26	/	/	<=33	Pass
		Edge_1RB_Right	18.55	/	/	20.38	/	/	<=33	Pass
		Outer_Full	18.69	/	/	20.52	/	/	<=33	Pass
		Inner_Full	18.71	/	/	20.54	/	/	<=33	Pass
		Inner_1RB_Left	18.42	/	/	20.25	/	/	<=33	Pass
		Inner_1RB_Right	18.49	/	/	20.32	/	/	<=33	Pass
CP-OFDM QPSK	2590	Edge_1RB_Left	19.92	/	/	21.75	/	/	<=33	Pass
		Edge_1RB_Right	20.28	/	/	22.11	/	/	<=33	Pass
		Outer_Full	20.09	/	/	21.92	/	/	<=33	Pass
		Inner_Full	21.68	/	/	23.51	/	/	<=33	Pass
		Inner_1RB_Left	21.40	/	/	23.23	/	/	<=33	Pass
		Inner_1RB_Right	21.68	/	/	23.51	/	/	<=33	Pass
	2595	Edge_1RB_Left	19.89	/	/	21.72	/	/	<=33	Pass
		Edge_1RB_Right	20.15	/	/	21.98	/	/	<=33	Pass
		Outer_Full	20.06	/	/	21.89	/	/	<=33	Pass
		Inner_Full	21.57	/	/	23.40	/	/	<=33	Pass
		Inner_1RB_Left	21.29	/	/	23.12	/	/	<=33	Pass
		Inner_1RB_Right	21.55	/	/	23.38	/	/	<=33	Pass
	2600	Edge_1RB_Left	20.05	/	/	21.88	/	/	<=33	Pass
		Edge_1RB_Right	20.20	/	/	22.03	/	/	<=33	Pass
		Outer_Full	20.17	/	/	22.00	/	/	<=33	Pass
		Inner_Full	21.67	/	/	23.50	/	/	<=33	Pass
		Inner_1RB_Left	21.48	/	/	23.31	/	/	<=33	Pass
		Inner_1RB_Right	21.67	/	/	23.50	/	/	<=33	Pass
CP-OFDM 16 QAM	2590	Edge_1RB_Left	19.79	/	/	21.62	/	/	<=33	Pass
		Edge_1RB_Right	19.97	/	/	21.80	/	/	<=33	Pass
		Outer_Full	20.07	/	/	21.90	/	/	<=33	Pass
		Inner_Full	21.13	/	/	22.96	/	/	<=33	Pass
		Inner_1RB_Left	20.73	/	/	22.56	/	/	<=33	Pass
		Inner_1RB_Right	21.04	/	/	22.87	/	/	<=33	Pass
	2595	Edge_1RB_Left	19.68	/	/	21.51	/	/	<=33	Pass
		Edge_1RB_Right	19.96	/	/	21.79	/	/	<=33	Pass
		Outer_Full	20.02	/	/	21.85	/	/	<=33	Pass
		Inner_Full	21.09	/	/	22.92	/	/	<=33	Pass
		Inner_1RB_Left	20.75	/	/	22.58	/	/	<=33	Pass
		Inner_1RB_Right	20.96	/	/	22.79	/	/	<=33	Pass
	2600	Edge_1RB_Left	19.99	/	/	21.82	/	/	<=33	Pass

		Edge_1RB_Right	20.15	/	/	21.98	/	/	<=33	Pass
		Outer_Full	20.13	/	/	21.96	/	/	<=33	Pass
		Inner_Full	21.15	/	/	22.98	/	/	<=33	Pass
		Inner_1RB_Left	20.99	/	/	22.82	/	/	<=33	Pass
		Inner_1RB_Right	21.11	/	/	22.94	/	/	<=33	Pass
CP-OFDM 64 QAM	2590	Edge_1RB_Left	19.33	/	/	21.16	/	/	<=33	Pass
		Edge_1RB_Right	19.69	/	/	21.52	/	/	<=33	Pass
		Outer_Full	19.62	/	/	21.45	/	/	<=33	Pass
		Inner_Full	19.64	/	/	21.47	/	/	<=33	Pass
		Inner_1RB_Left	19.27	/	/	21.10	/	/	<=33	Pass
		Inner_1RB_Right	19.71	/	/	21.54	/	/	<=33	Pass
	2595	Edge_1RB_Left	19.44	/	/	21.27	/	/	<=33	Pass
		Edge_1RB_Right	19.76	/	/	21.59	/	/	<=33	Pass
		Outer_Full	19.59	/	/	21.42	/	/	<=33	Pass
		Inner_Full	19.63	/	/	21.46	/	/	<=33	Pass
		Inner_1RB_Left	19.31	/	/	21.14	/	/	<=33	Pass
		Inner_1RB_Right	19.65	/	/	21.48	/	/	<=33	Pass
	2600	Edge_1RB_Left	19.54	/	/	21.37	/	/	<=33	Pass
		Edge_1RB_Right	19.76	/	/	21.59	/	/	<=33	Pass
		Outer_Full	19.75	/	/	21.58	/	/	<=33	Pass
		Inner_Full	19.66	/	/	21.49	/	/	<=33	Pass
		Inner_1RB_Left	14.69	/	/	16.52	/	/	<=33	Pass
		Inner_1RB_Right	19.82	/	/	21.65	/	/	<=33	Pass
CP-OFDM 256 QAM	2590	Edge_1RB_Left	16.48	/	/	18.31	/	/	<=33	Pass
		Edge_1RB_Right	16.70	/	/	18.53	/	/	<=33	Pass
		Outer_Full	16.64	/	/	18.47	/	/	<=33	Pass
		Inner_Full	16.67	/	/	18.50	/	/	<=33	Pass
		Inner_1RB_Left	16.36	/	/	18.19	/	/	<=33	Pass
		Inner_1RB_Right	16.71	/	/	18.54	/	/	<=33	Pass
	2595	Edge_1RB_Left	16.33	/	/	18.16	/	/	<=33	Pass
		Edge_1RB_Right	16.60	/	/	18.43	/	/	<=33	Pass
		Outer_Full	16.54	/	/	18.37	/	/	<=33	Pass
		Inner_Full	16.66	/	/	18.49	/	/	<=33	Pass
		Inner_1RB_Left	16.36	/	/	18.19	/	/	<=33	Pass
		Inner_1RB_Right	16.57	/	/	18.40	/	/	<=33	Pass
	2600	Edge_1RB_Left	16.43	/	/	18.26	/	/	<=33	Pass
		Edge_1RB_Right	16.65	/	/	18.48	/	/	<=33	Pass
		Outer_Full	16.60	/	/	18.43	/	/	<=33	Pass
		Inner_Full	16.77	/	/	18.60	/	/	<=33	Pass
		Inner_1RB_Left	16.56	/	/	18.39	/	/	<=33	Pass
		Inner_1RB_Right	16.66	/	/	18.49	/	/	<=33	Pass
Note1: Antenna Gain: Ant1: 1.83dBi; Note2: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 Test Result

2.1.1 30k_SISO_20MHz

5G NR n38 SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	6.40	0.0025	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	7.30	0.0028	>=-2.5 & <=2.5	Pass

			-20	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	7.20	0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	6.90	0.0027	>=-2.5 & <=2.5	Pass
			20	NV	7.00	0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	11.50	0.0044	>=-2.5 & <=2.5	Pass
			50	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	3.80	0.0015	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	6.60	0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
			50	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	1.40	0.0005	>=-2.5 & <=2.5	Pass
				HV	6.00	0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-16.20	-0.0062	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	7.10	0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			30	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
				HV	1.00	0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	6.30	0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	5.80	0.0022	>=-2.5 & <=2.5	Pass
			30	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	1.80	0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	5.00	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-15.60	-0.0060	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
			-10	NV	-0.60	-0.0002	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass

			20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			50	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	4.40	0.0017	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-15.60	-0.0060	>=-2.5 & <=2.5	Pass
			10	NV	2.20	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			30	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
			50	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	6.00	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			50	NV	3.00	0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	5.30	0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-13.40	-0.0052	>=-2.5 & <=2.5	Pass

2.1.2 30k_SISO_30MHz

5G NR n38 SCS=30kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	3.50	0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
			-10	NV	4.80	0.0018	>=-2.5 & <=2.5	Pass
			0	NV	6.70	0.0026	>=-2.5 & <=2.5	Pass
			10	NV	6.50	0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			50	NV	6.20	0.0024	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
				HV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-15.90	-0.0061	>=-2.5 & <=2.5	Pass

			-20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-14.50	-0.0056	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass
				HV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			-30	NV	7.30	0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	8.60	0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
				HV	7.00	0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
				HV	5.70	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	9.40	0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-11.80	-0.0045	>=-2.5 & <=2.5	Pass
			10	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			50	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	10.60	0.0041	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-11.80	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	7.10	0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	3.30	0.0013	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	4.80	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass

			20	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	2.20	0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	1.50	0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-15.70	-0.0061	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-11.80	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	8.00	0.0031	>=-2.5 & <=2.5	Pass
			50	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	3.00	0.0012	>=-2.5 & <=2.5	Pass
				HV	-21.40	-0.0082	>=-2.5 & <=2.5	Pass
			-30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	1.50	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			50	NV	-13.80	-0.0053	>=-2.5 & <=2.5	Pass

2.1.3 30k_SISO_40MHz

5G NR n38 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	9.30	0.0036	>=-2.5 & <=2.5	Pass
			40	NV	4.00	0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
				HV	6.50	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-13.60	-0.0052	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	7.00	0.0027	>=-2.5 & <=2.5	Pass
			40	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			50	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	5.10	0.0020	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass

			-20	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			10	NV	1.80	0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			40	NV	6.20	0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
				HV	4.00	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-14.80	-0.0057	>=-2.5 & <=2.5	Pass
			-10	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	5.20	0.0020	>=-2.5 & <=2.5	Pass
				HV	10.30	0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			0	NV	0.20	0.0001	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			50	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	6.50	0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-16.00	-0.0062	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-17.00	-0.0066	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-17.50	-0.0067	>=-2.5 & <=2.5	Pass
			50	NV	7.70	0.0030	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
				HV	5.80	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-11.20	-0.0043	>=-2.5 & <=2.5	Pass

			20	NV	4.30	0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
			50	NV	-0.80	-0.0003	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-11.20	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	8.00	0.0031	>=-2.5 & <=2.5	Pass
			50	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_20MHz_NTNV

5G NR n38 SCS=30kHz SISO 20MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	18.20	19.65	/	Pass
	2595	Outer_Full	18.12	19.59	/	Pass
	2610	Outer_Full	18.11	19.72	/	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	18.06	19.50	/	Pass
	2595	Outer_Full	18.08	19.50	/	Pass
	2610	Outer_Full	18.10	19.66	/	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	18.13	19.55	/	Pass
	2595	Outer_Full	18.11	19.60	/	Pass
	2610	Outer_Full	18.09	19.61	/	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	18.12	19.57	/	Pass
	2595	Outer_Full	18.10	19.91	/	Pass
	2610	Outer_Full	18.12	19.89	/	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	18.09	19.88	/	Pass
	2595	Outer_Full	18.09	19.82	/	Pass
	2610	Outer_Full	18.07	19.71	/	Pass
CP-OFDM QPSK	2580	Outer_Full	18.43	20.45	/	Pass
	2595	Outer_Full	18.44	20.84	/	Pass
	2610	Outer_Full	18.40	20.22	/	Pass
CP-OFDM 16 QAM	2580	Outer_Full	18.47	21.01	/	Pass
	2595	Outer_Full	18.44	20.04	/	Pass
	2610	Outer_Full	18.42	20.25	/	Pass
CP-OFDM 64 QAM	2580	Outer_Full	18.44	20.92	/	Pass
	2595	Outer_Full	18.43	21.36	/	Pass
	2610	Outer_Full	18.39	20.51	/	Pass
CP-OFDM 256 QAM	2580	Outer_Full	18.41	20.03	/	Pass
	2595	Outer_Full	18.36	20.02	/	Pass
	2610	Outer_Full	18.36	19.91	/	Pass

3.1.2 30k_SISO_30MHz_NTNV

5G NR n38 SCS=30kHz SISO 30MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	27.07	29.29	/	Pass
	2595	Outer_Full	27.12	29.26	/	Pass
	2605	Outer_Full	27.13	29.18	/	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	27.18	29.23	/	Pass
	2595	Outer_Full	27.14	29.11	/	Pass
	2605	Outer_Full	27.12	29.16	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	27.17	29.25	/	Pass
	2595	Outer_Full	27.15	29.25	/	Pass
	2605	Outer_Full	27.16	29.21	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	27.17	29.17	/	Pass
	2595	Outer_Full	27.14	29.01	/	Pass
	2605	Outer_Full	27.15	29.16	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	27.22	29.09	/	Pass
	2595	Outer_Full	27.18	29.24	/	Pass
	2605	Outer_Full	27.18	29.26	/	Pass
CP-OFDM QPSK	2585	Outer_Full	28.33	29.82	/	Pass
	2595	Outer_Full	28.30	29.90	/	Pass
	2605	Outer_Full	28.11	30.08	/	Pass
CP-OFDM 16 QAM	2585	Outer_Full	28.19	30.30	/	Pass
	2595	Outer_Full	28.16	30.24	/	Pass
	2605	Outer_Full	28.12	30.23	/	Pass
CP-OFDM 64 QAM	2585	Outer_Full	28.12	31.20	/	Pass
	2595	Outer_Full	28.09	30.89	/	Pass
	2605	Outer_Full	28.07	30.33	/	Pass
CP-OFDM 256 QAM	2585	Outer_Full	28.01	29.54	/	Pass
	2595	Outer_Full	28.12	30.12	/	Pass
	2605	Outer_Full	28.12	30.18	/	Pass

3.1.3 30k_SISO_40MHz_NTNV

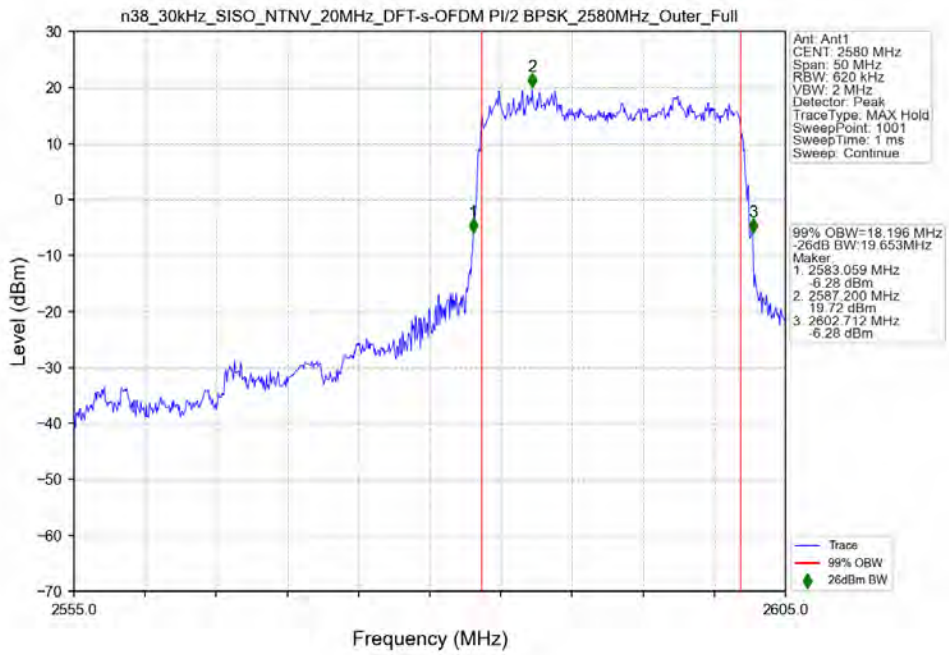
5G NR n38 SCS=30kHz SISO 40MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	36.04	38.64	/	Pass
	2595	Outer_Full	36.32	38.54	/	Pass
	2600	Outer_Full	36.90	42.30	/	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	36.08	38.71	/	Pass
	2595	Outer_Full	36.04	38.69	/	Pass
	2600	Outer_Full	36.51	41.02	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	36.21	38.69	/	Pass
	2595	Outer_Full	35.98	38.80	/	Pass
	2600	Outer_Full	36.41	39.80	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	36.09	38.74	/	Pass
	2595	Outer_Full	36.02	38.67	/	Pass
	2600	Outer_Full	36.36	40.26	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	36.23	38.30	/	Pass
	2595	Outer_Full	36.10	38.77	/	Pass
	2600	Outer_Full	36.21	39.45	/	Pass
CP-OFDM QPSK	2590	Outer_Full	38.12	40.76	/	Pass
	2595	Outer_Full	38.31	40.54	/	Pass
	2600	Outer_Full	38.67	42.98	/	Pass
CP-OFDM 16 QAM	2590	Outer_Full	38.26	40.85	/	Pass
	2595	Outer_Full	38.20	40.49	/	Pass
	2600	Outer_Full	38.15	40.94	/	Pass
CP-OFDM 64 QAM	2590	Outer_Full	38.31	40.80	/	Pass

	2595	Outer_Full	38.25	40.83	/	Pass
	2600	Outer_Full	38.25	40.81	/	Pass
CP-OFDM 256 QAM	2590	Outer_Full	38.33	40.81	/	Pass
	2595	Outer_Full	38.32	40.99	/	Pass
	2600	Outer_Full	38.24	40.89	/	Pass

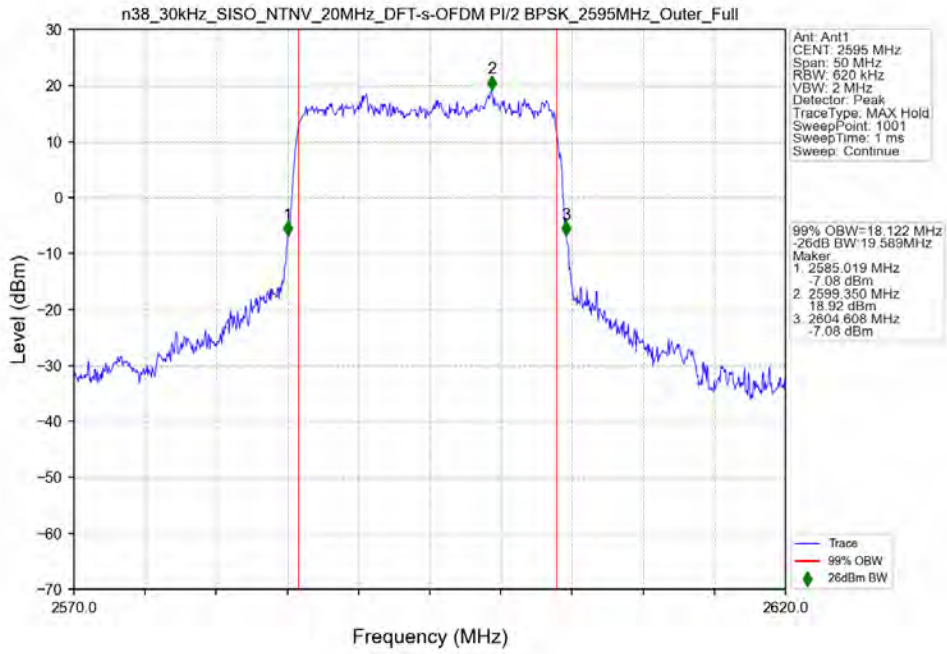
3.2 Test Graph

3.2.1 30k_SISO_20MHz_NTNV

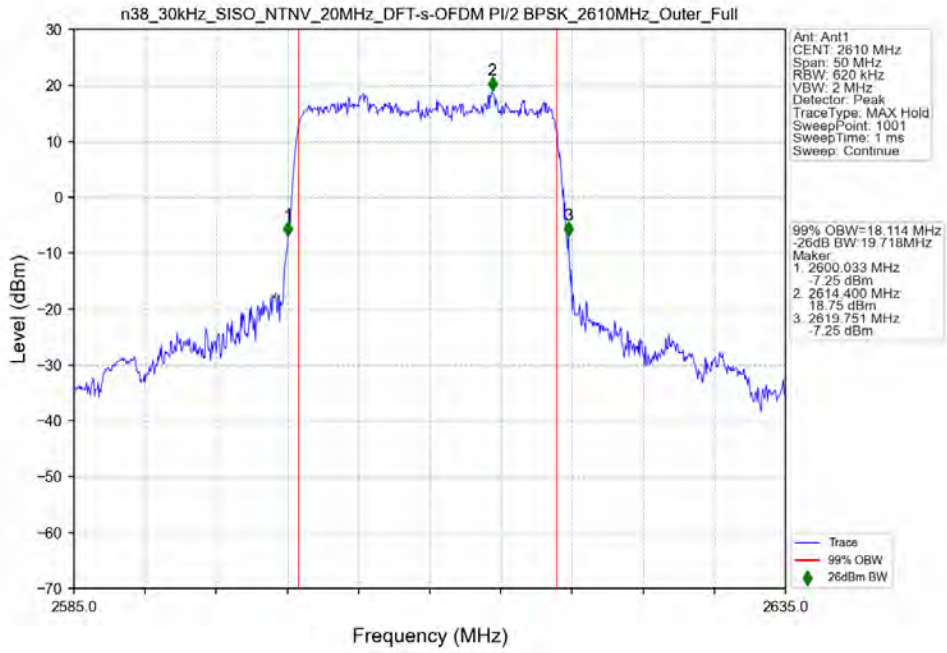
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Outer_Full



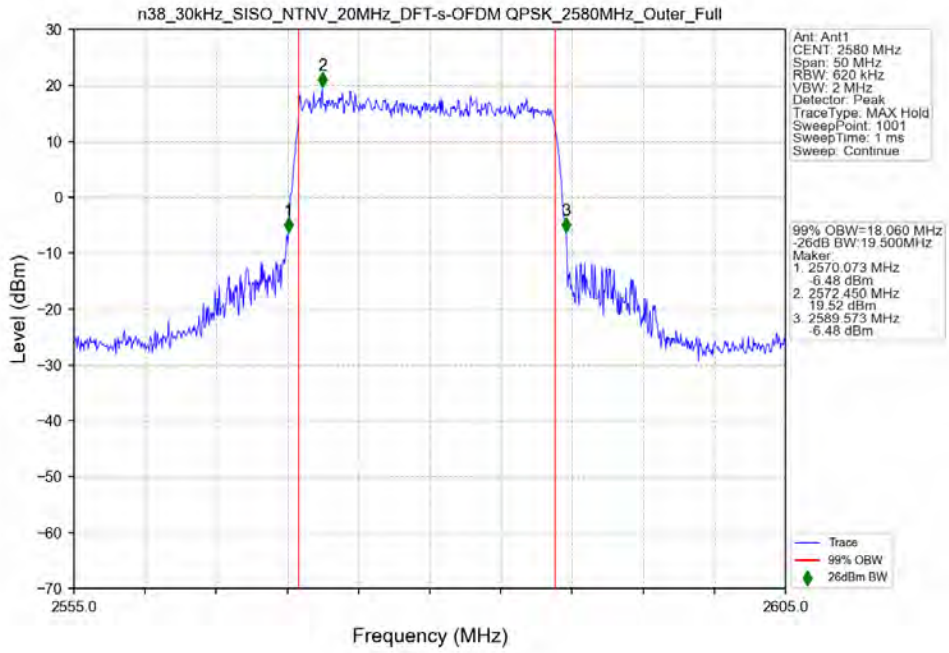
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full



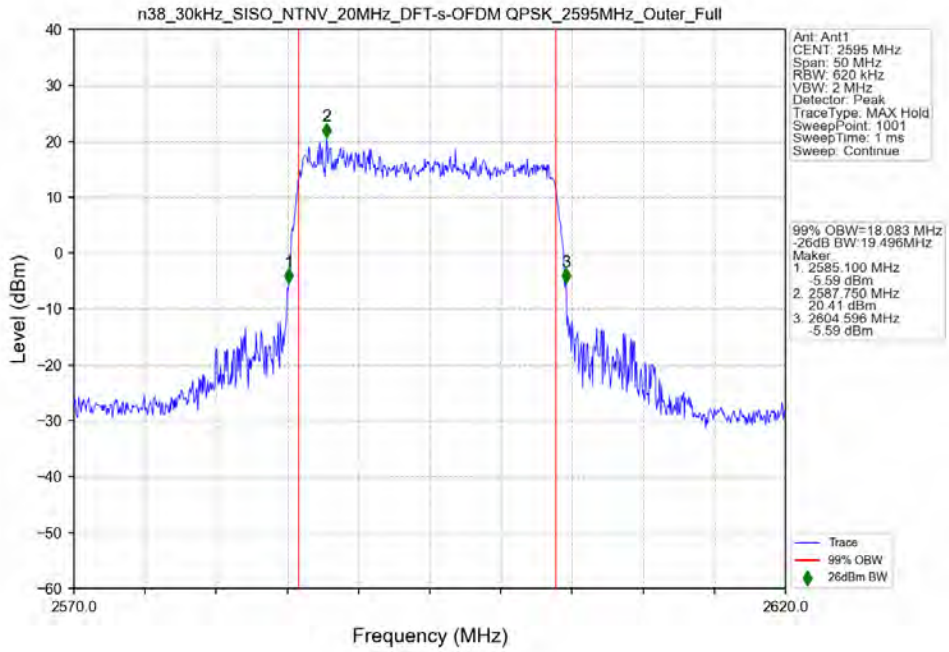
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Outer_Full



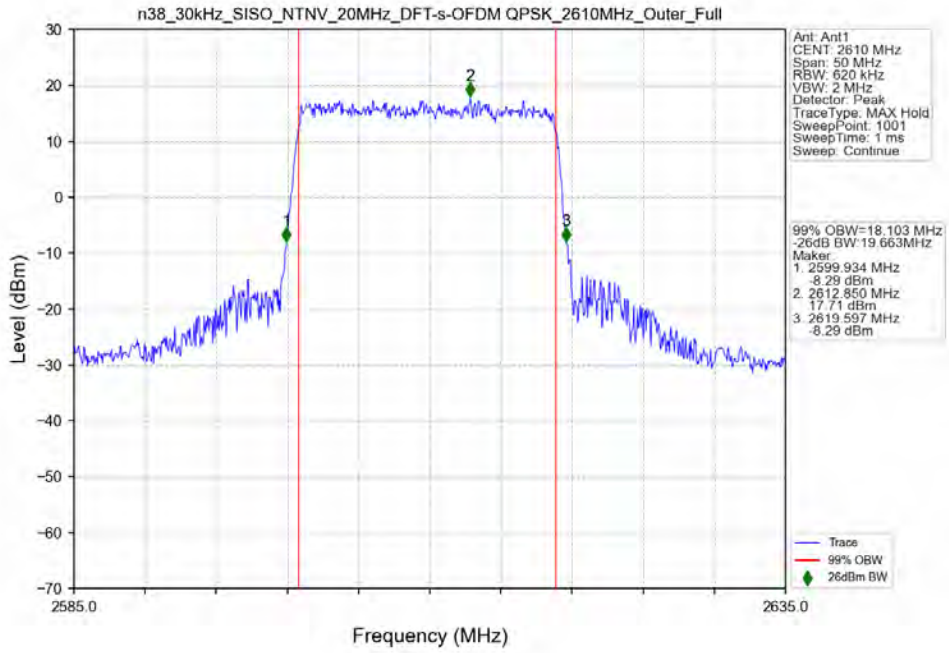
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Outer_Full



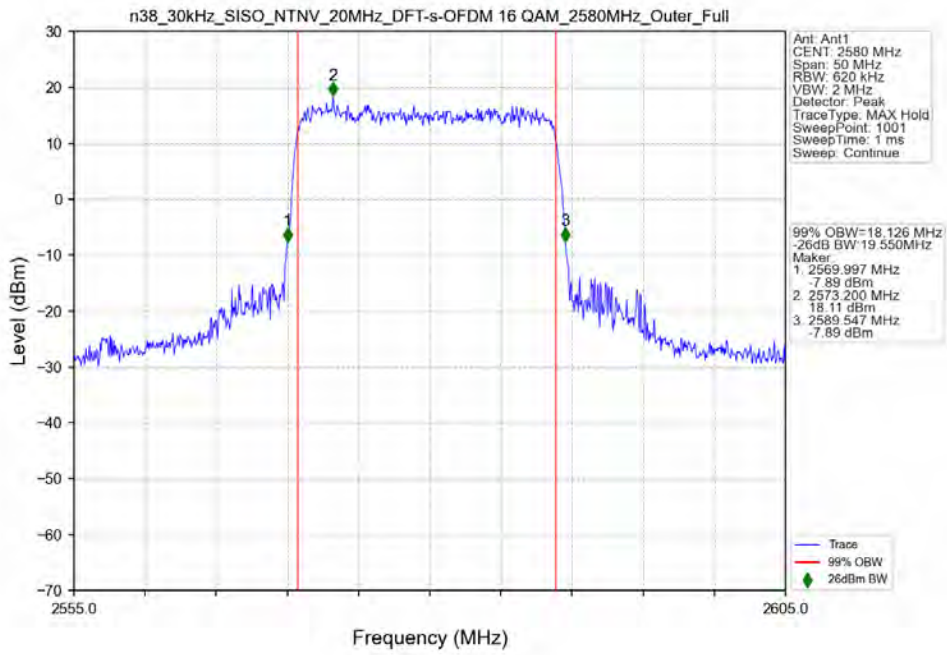
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



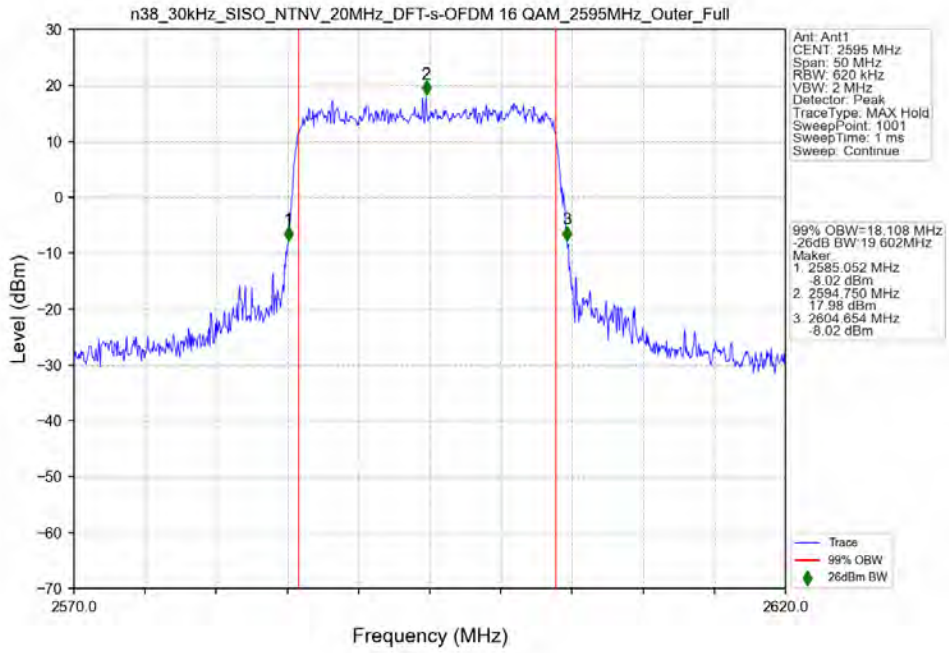
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Outer_Full



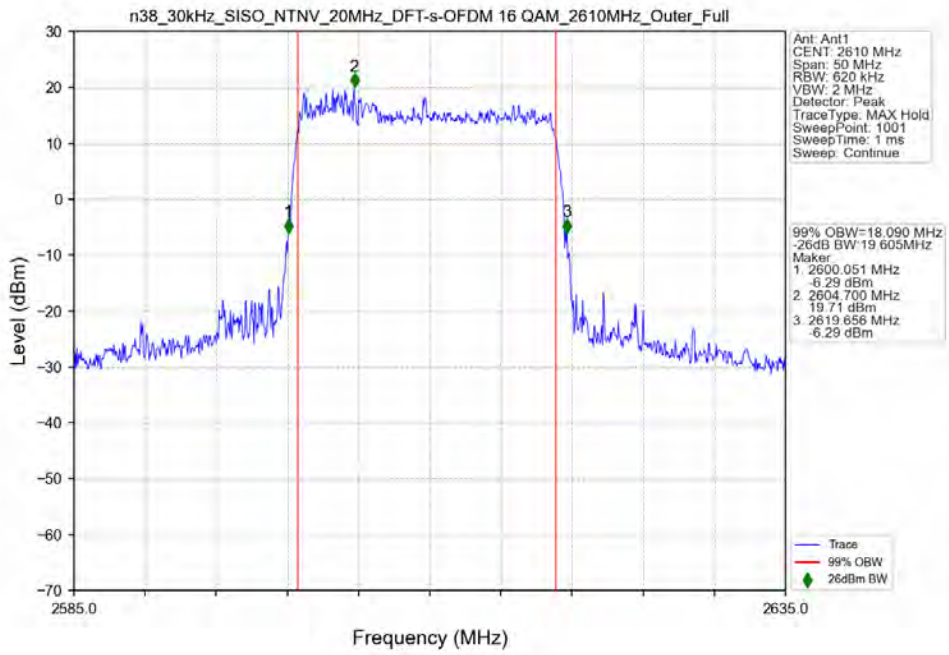
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2580MHz_Outer_Full



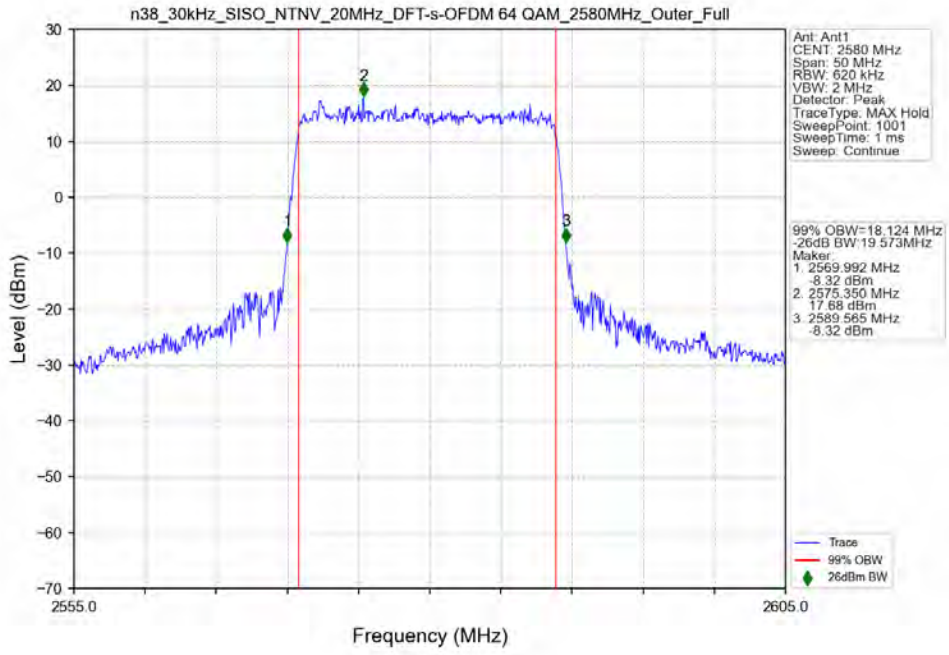
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full



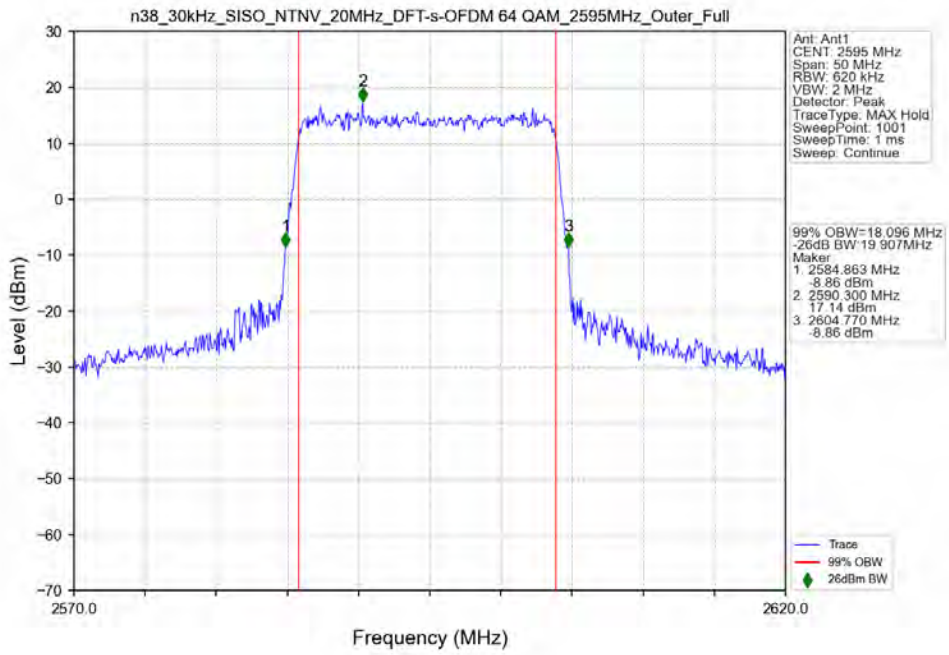
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2610MHz_Outer_Full



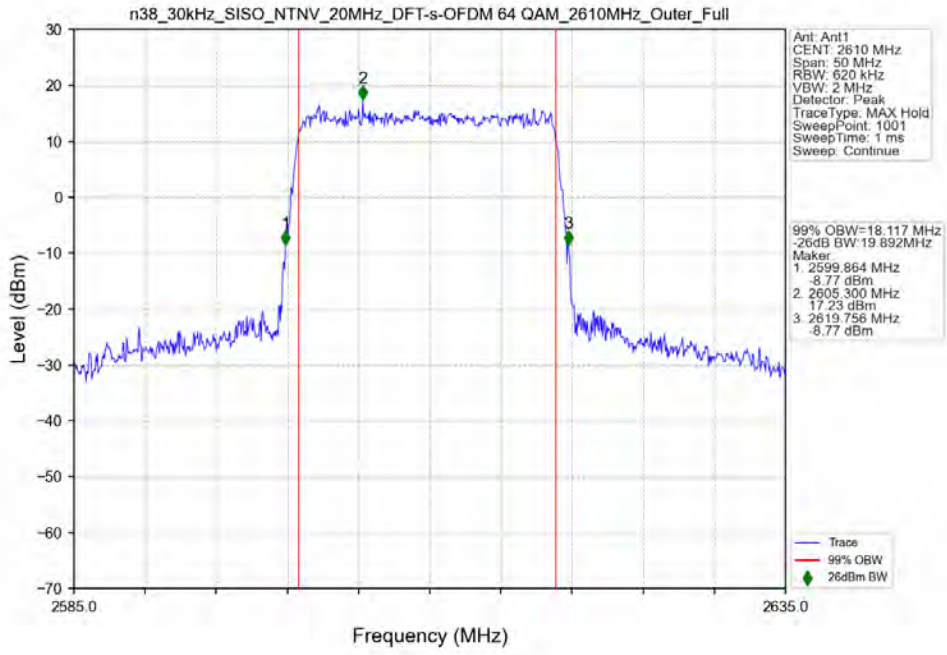
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2580MHz_Outer_Full



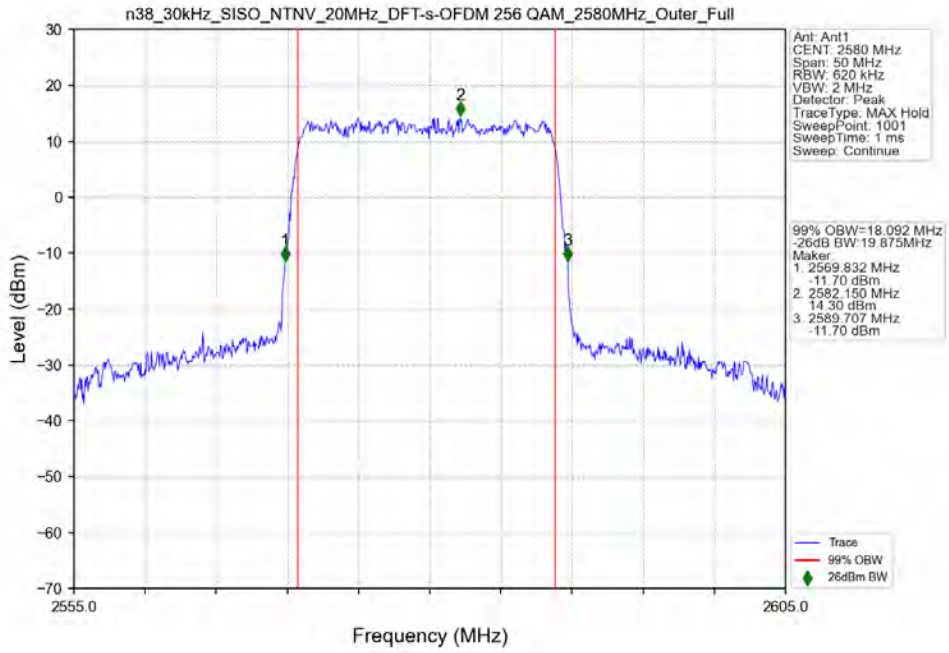
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



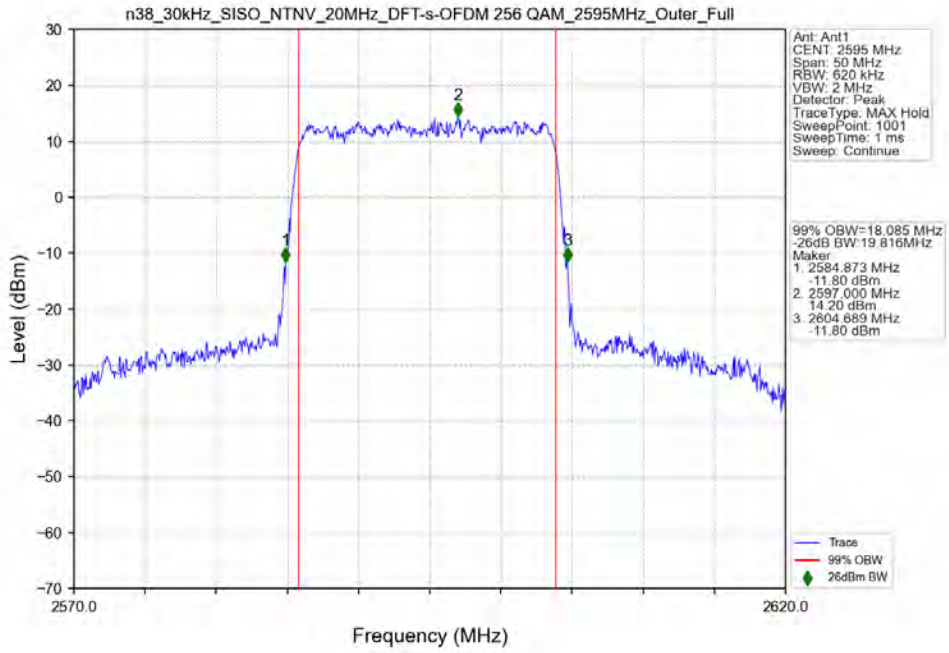
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2610MHz_Outer_Full



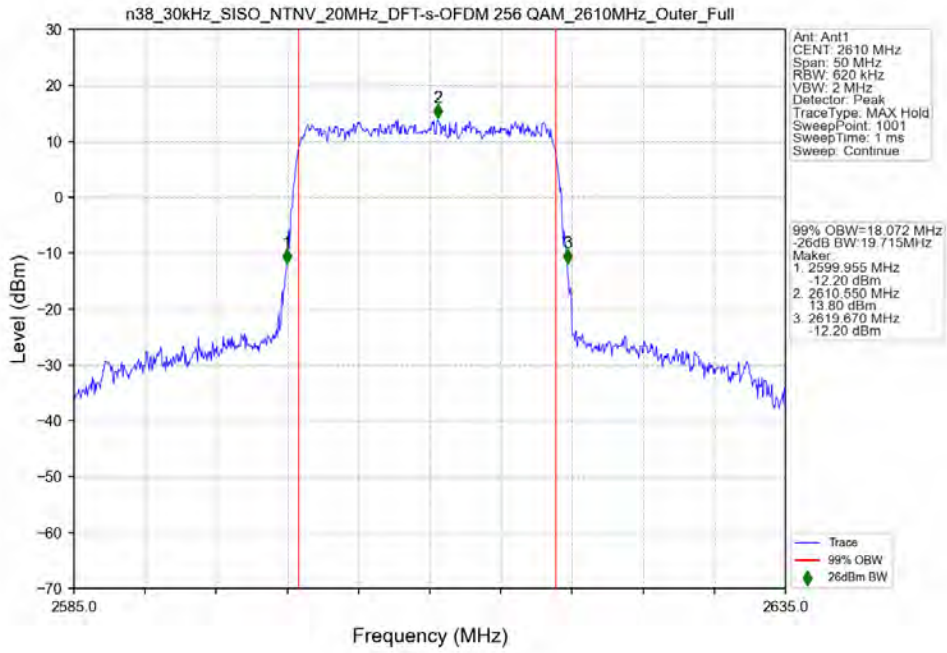
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2580MHz_Outer_Full



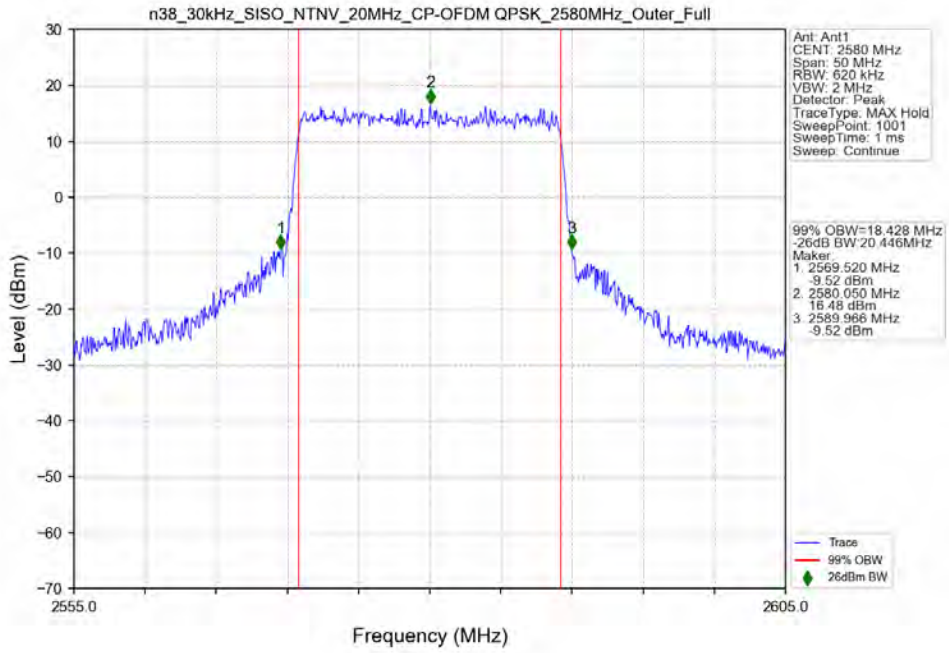
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full



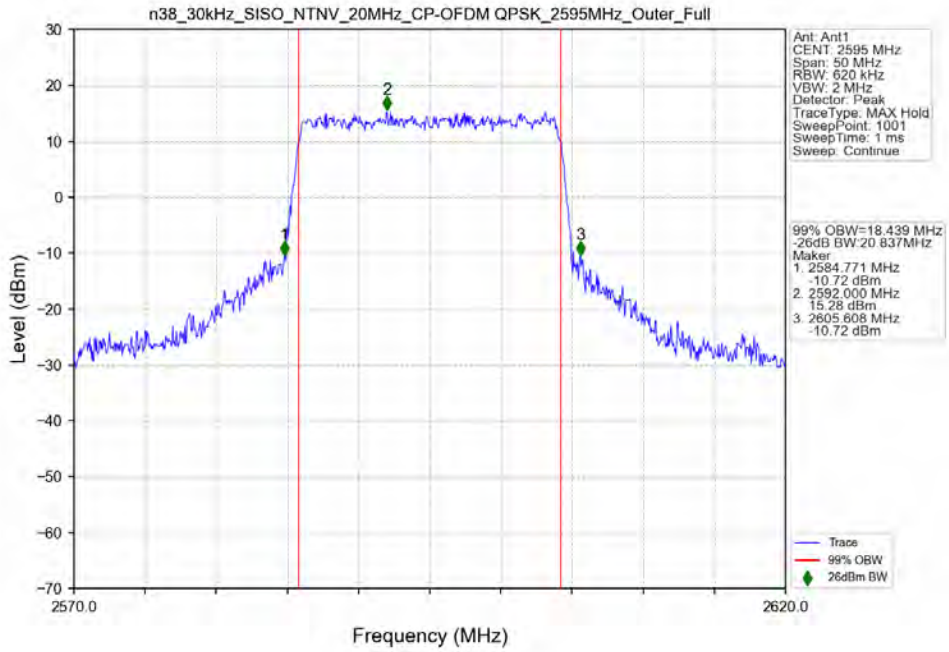
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2610MHz_Outer_Full



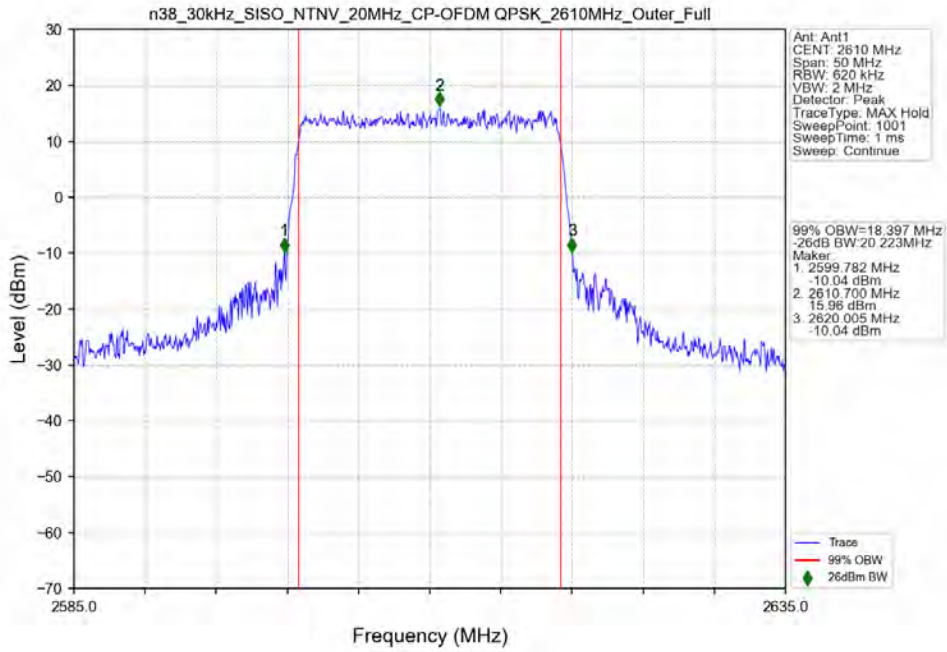
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2580MHz_Outer_Full



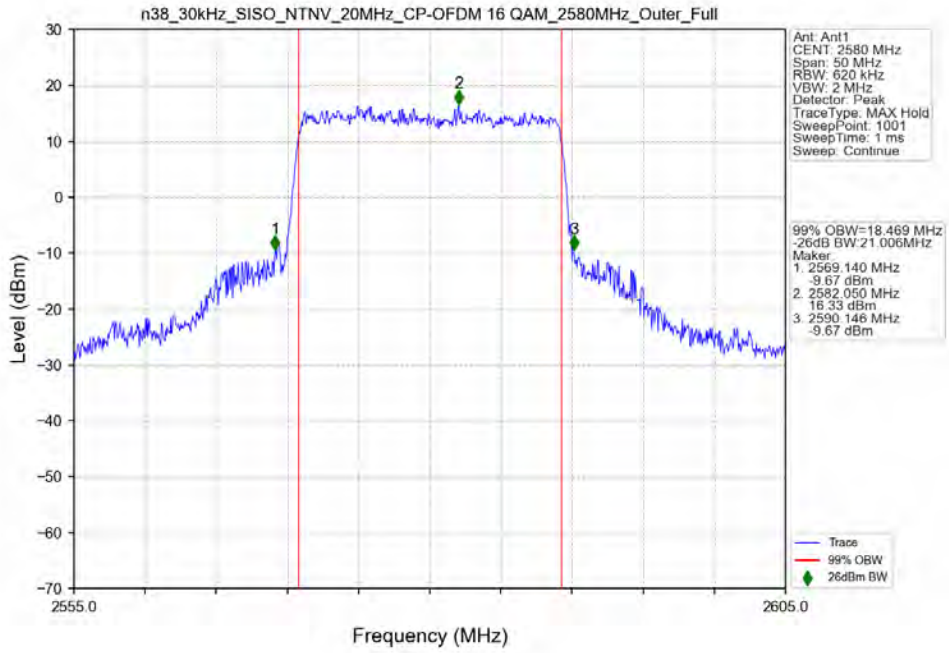
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2595MHz_Outer_Full



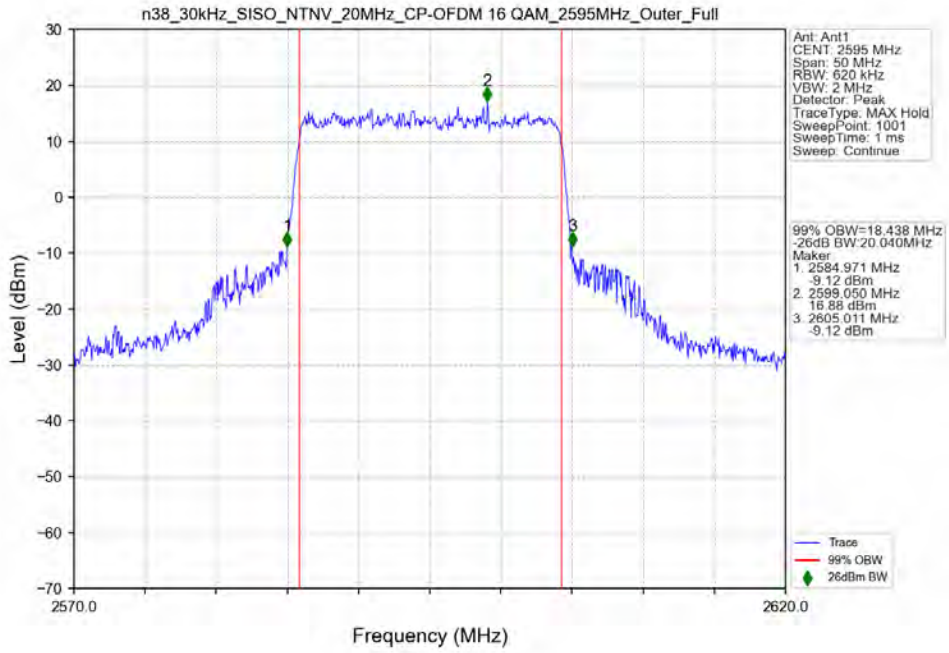
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Outer_Full



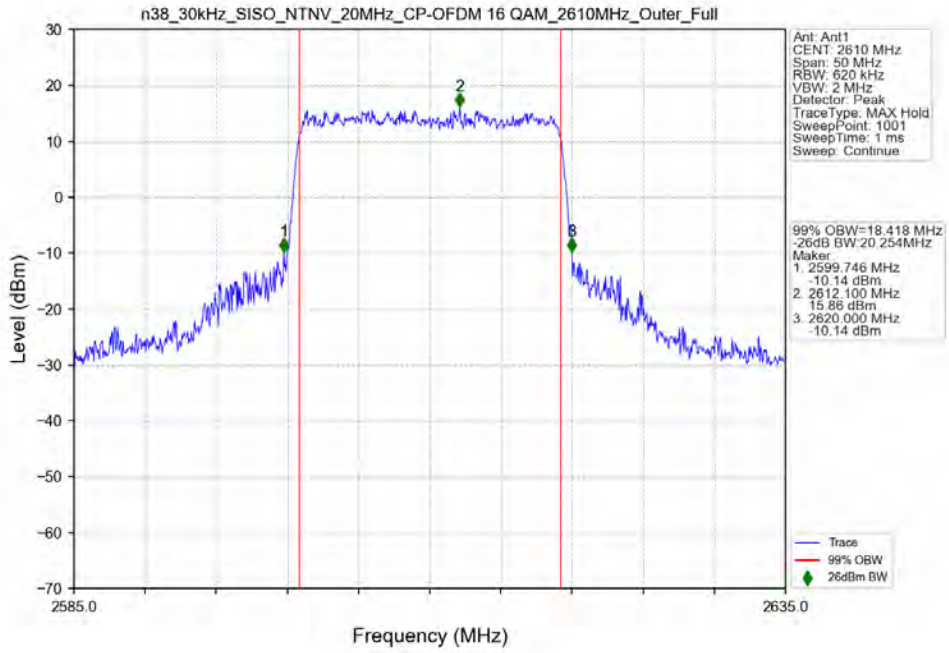
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2580MHz_Outer_Full



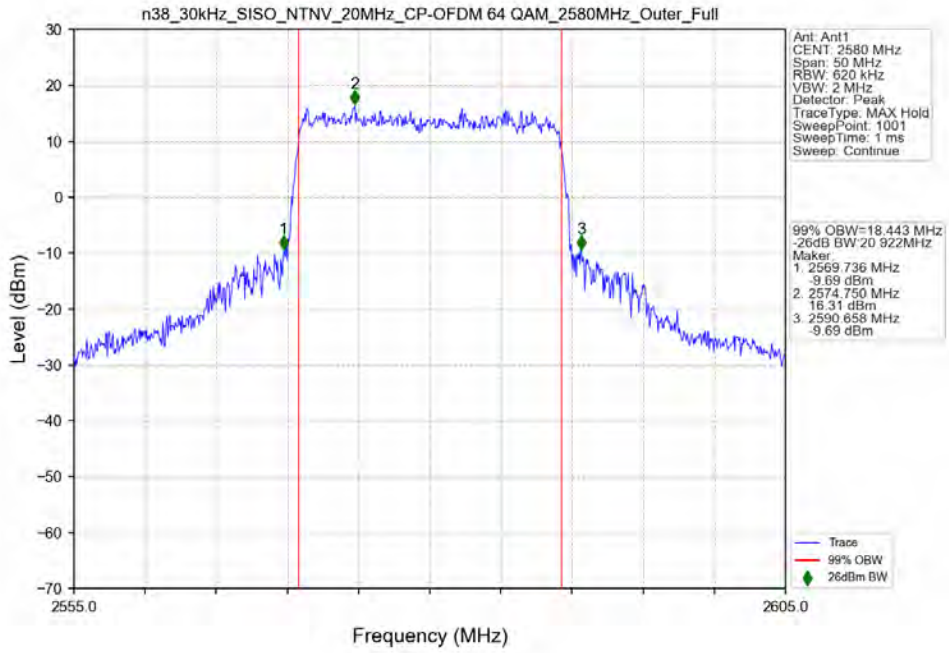
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



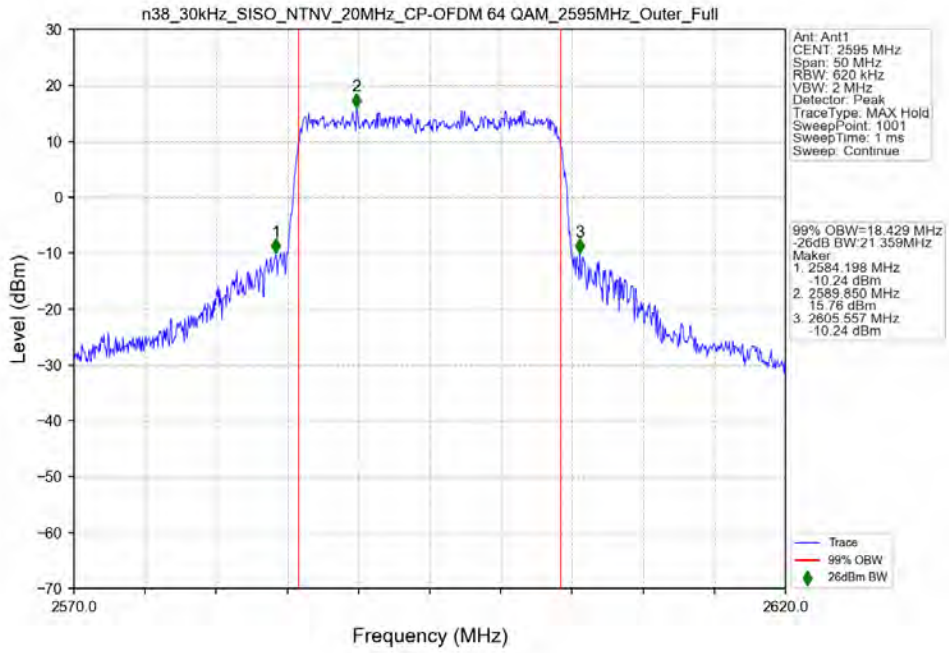
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2610MHz_Outer_Full



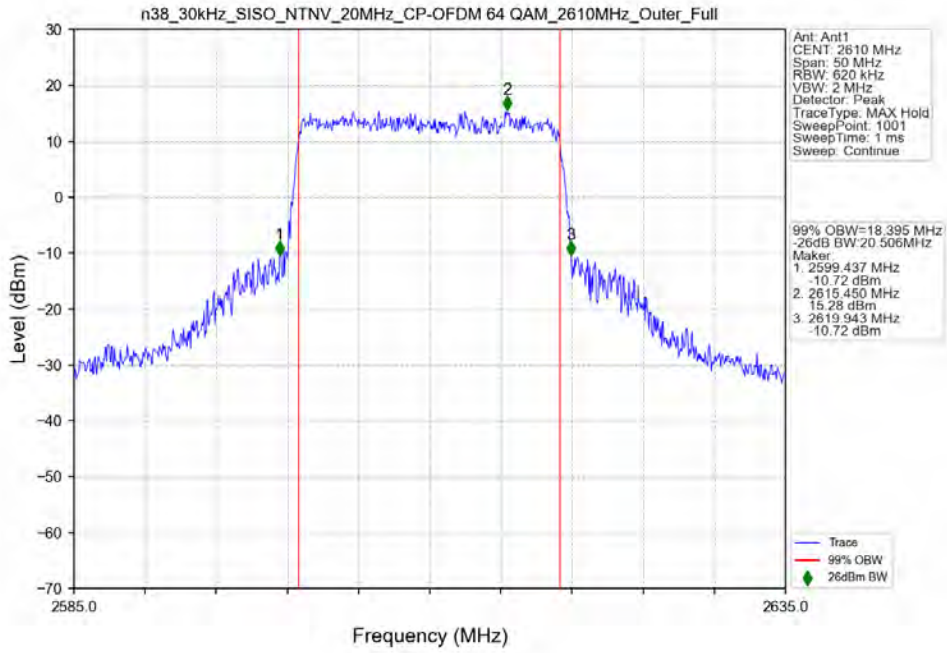
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2580MHz_Outer_Full



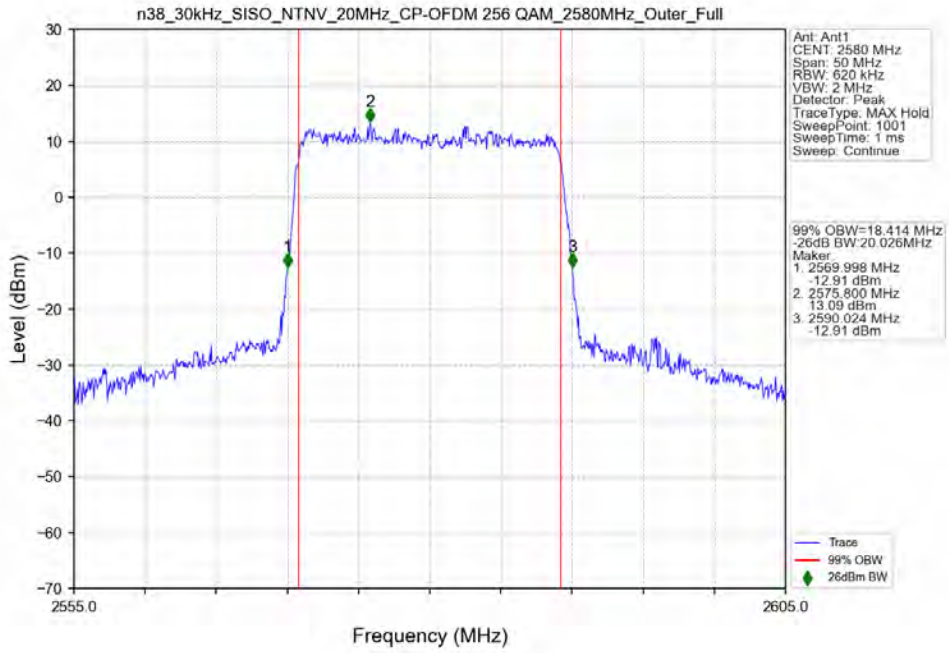
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



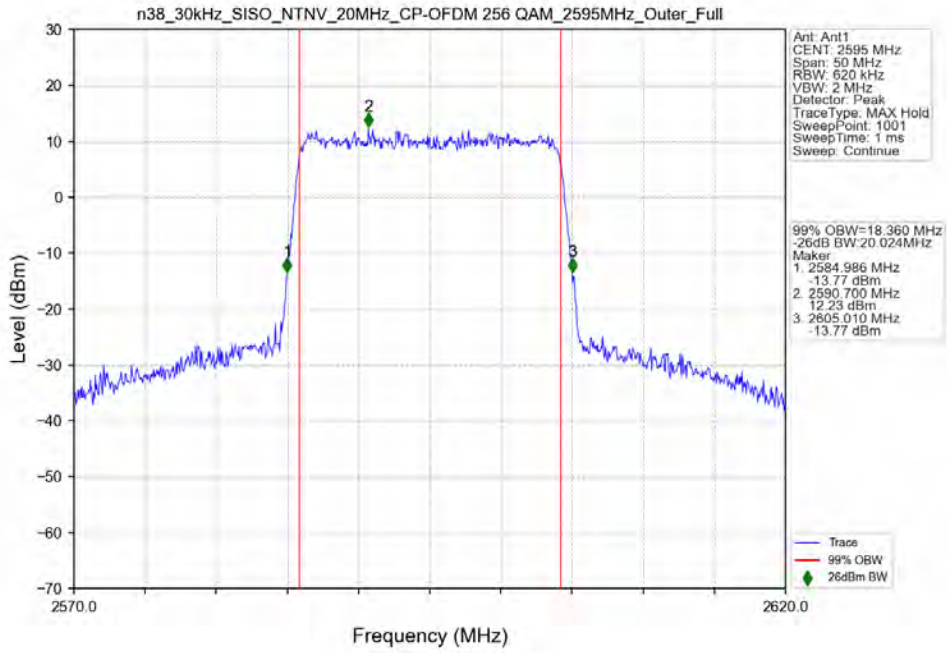
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2610MHz_Outer_Full



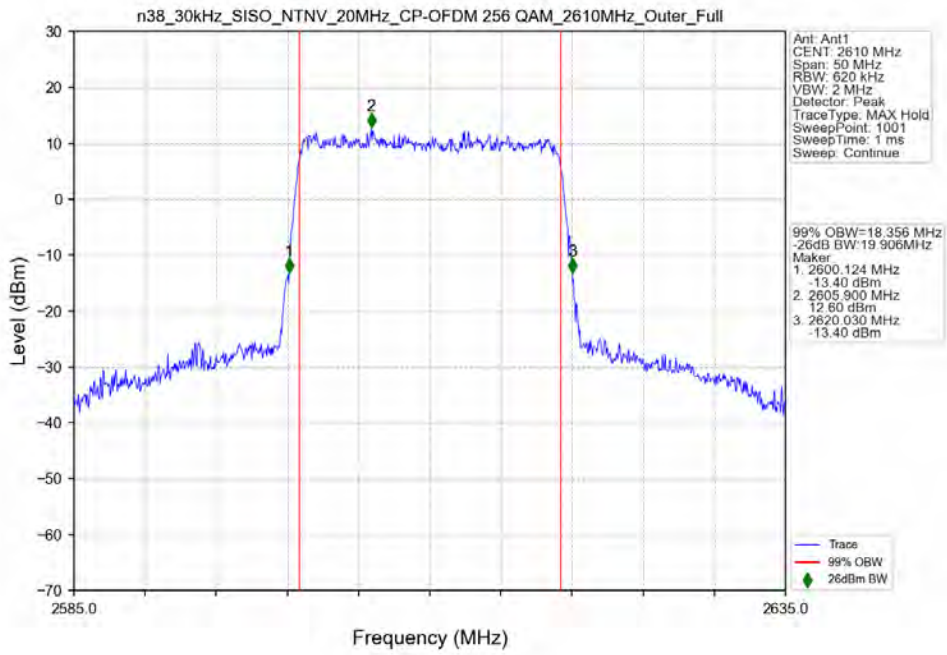
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2580MHz_Outer_Full



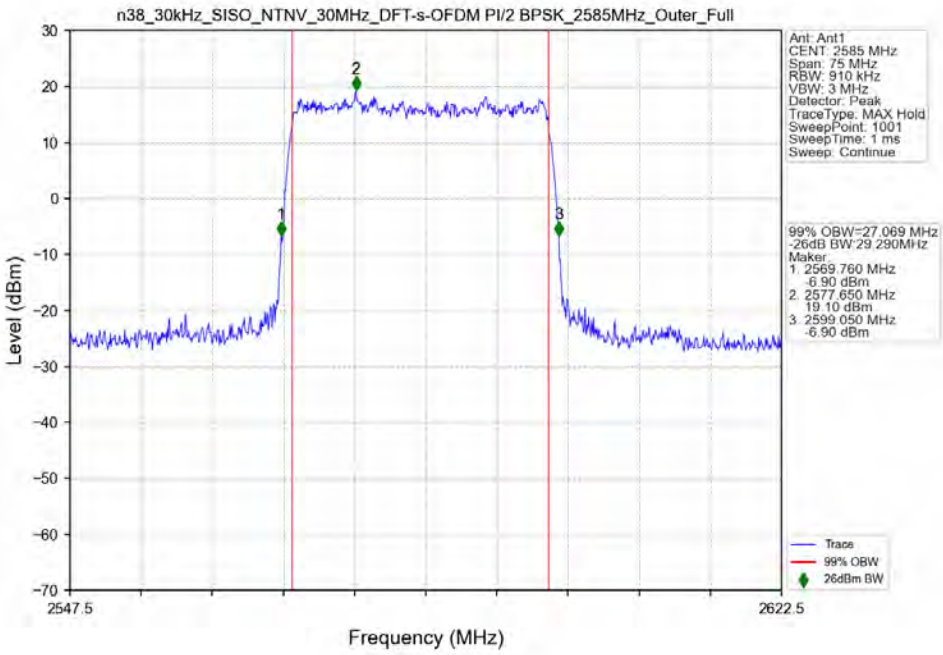
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full

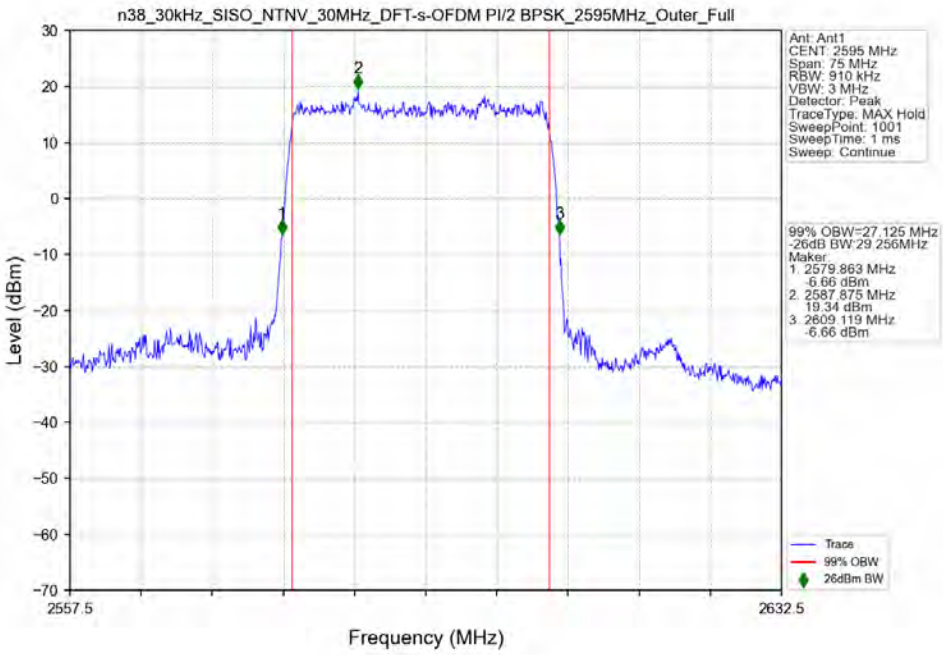


n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2610MHz_Outer_Full

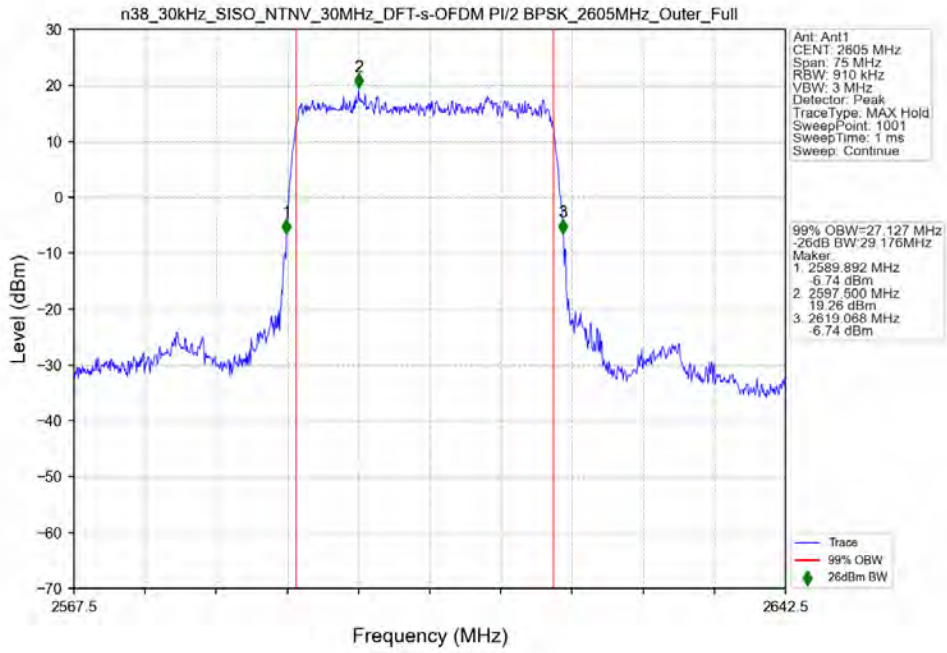


3.2.2 30k_SISO_30MHz_NTNV

n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2585MHz_Outer_Full


n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full


n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Outer_Full



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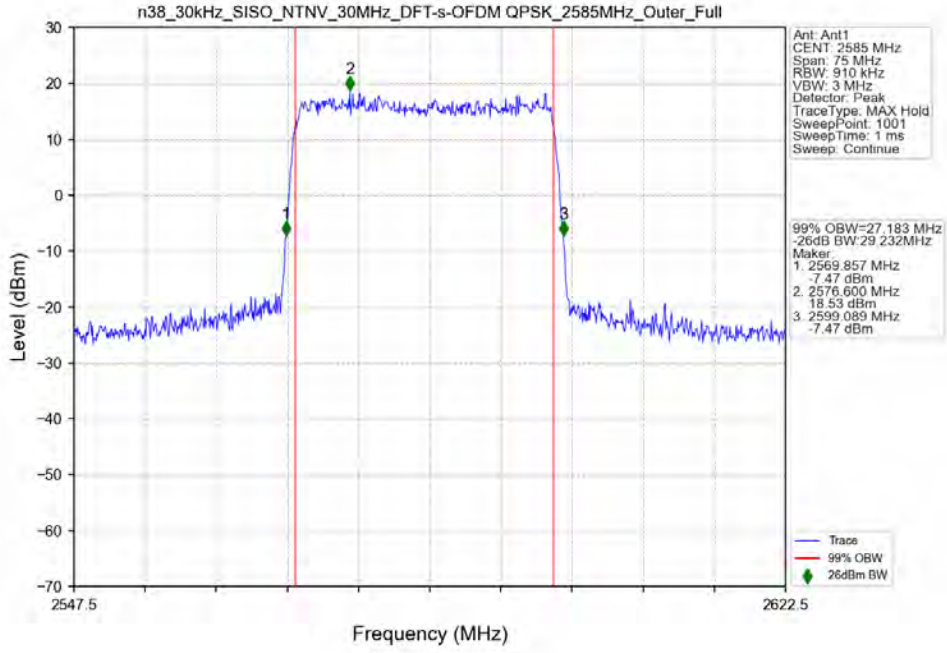

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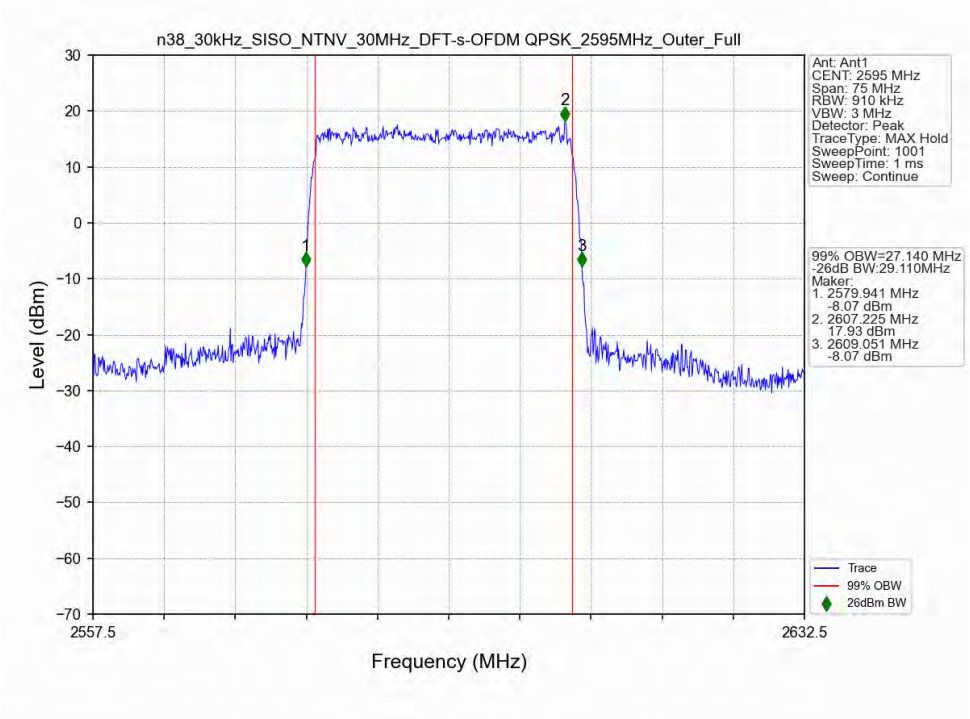

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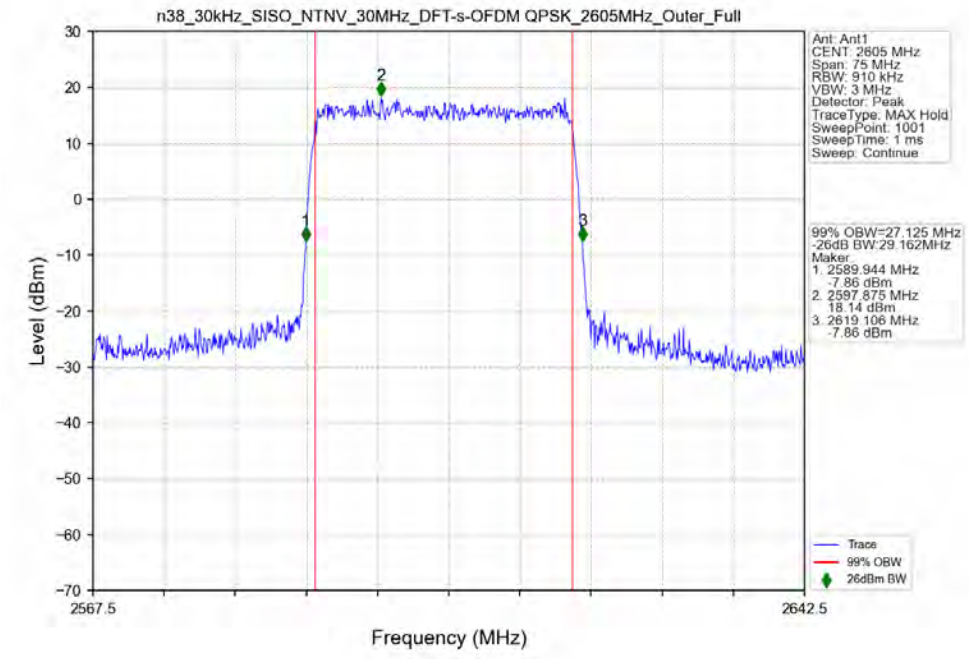
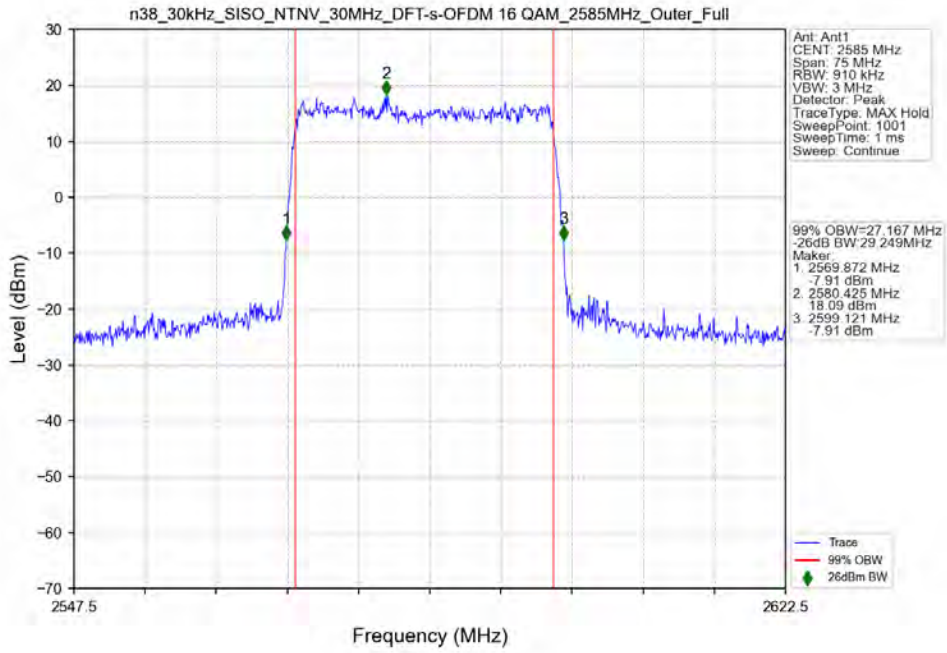


n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2585MHz_Outer_Full



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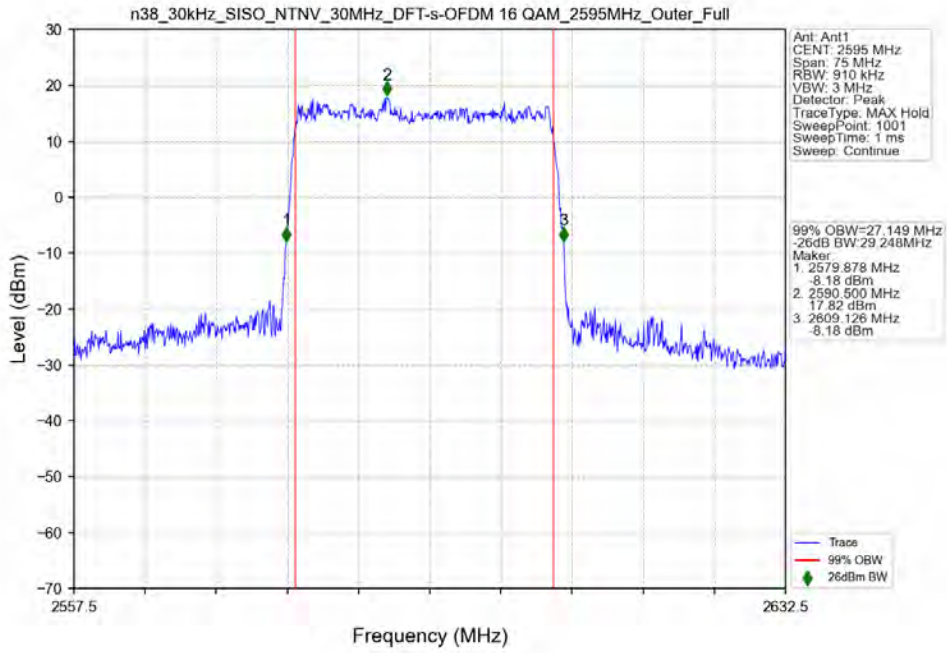

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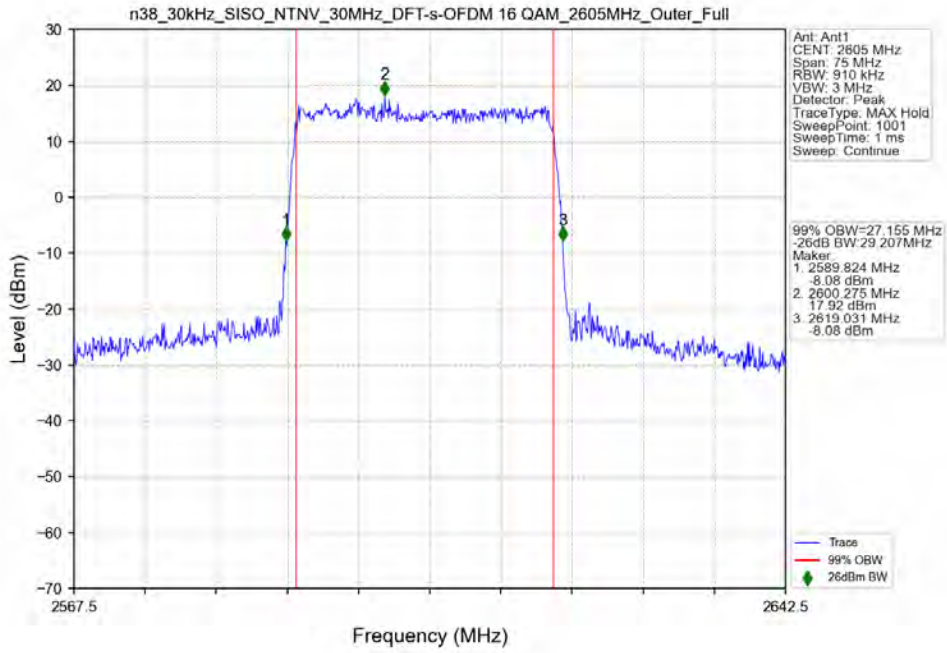
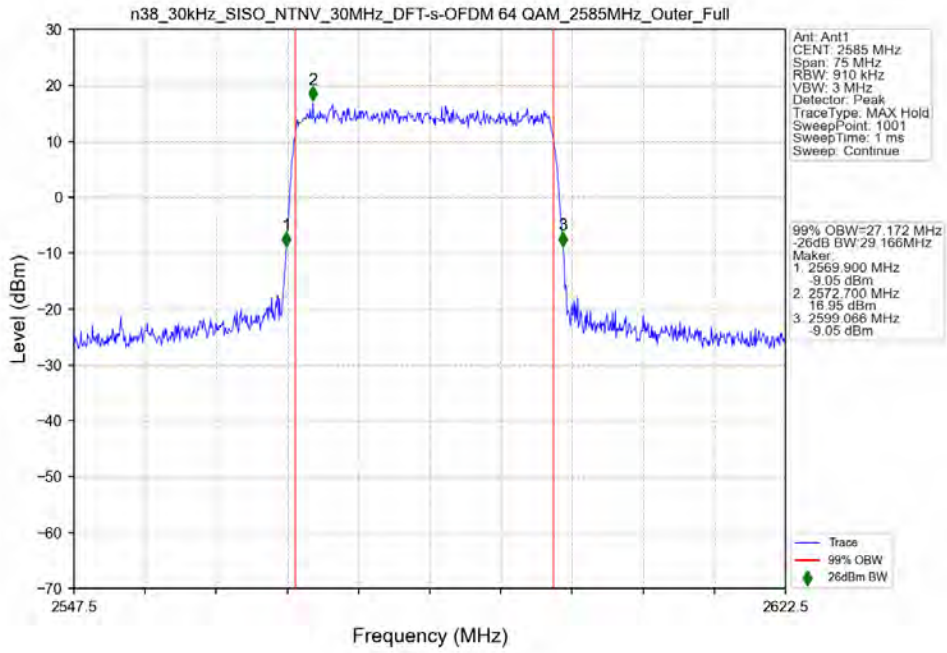
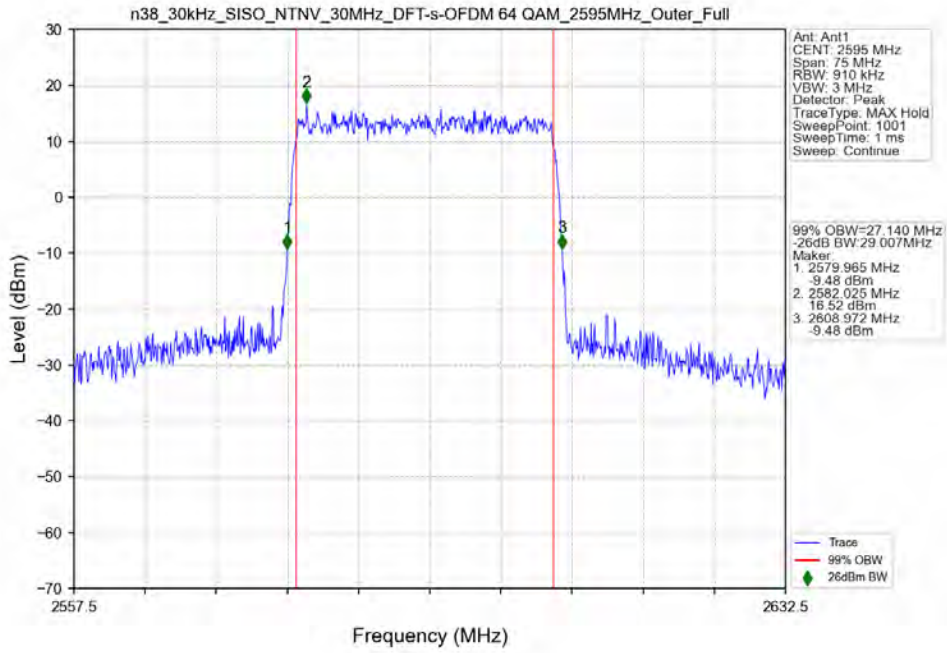


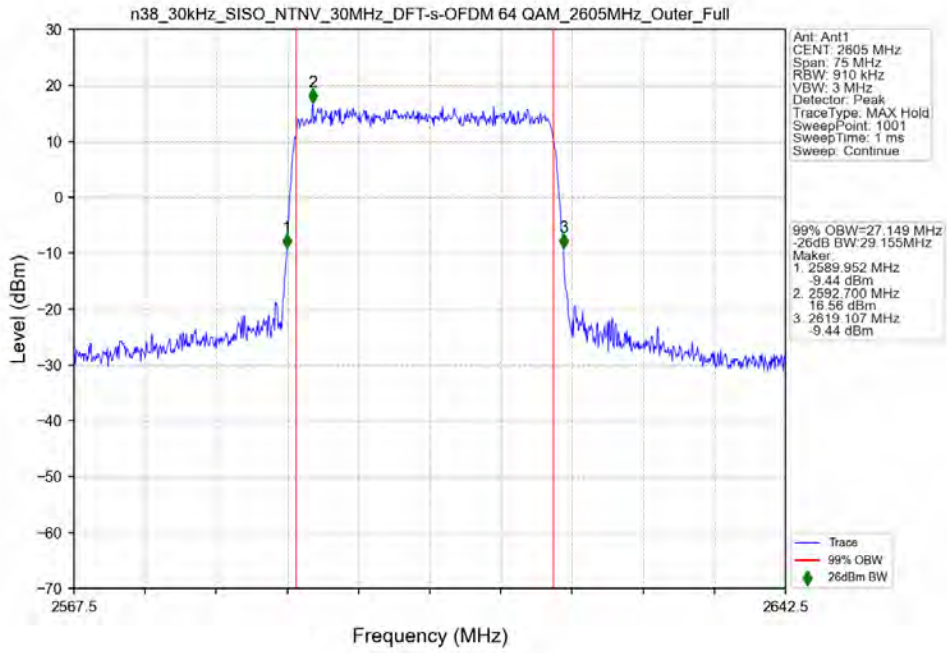
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2585MHz_Outer_Full



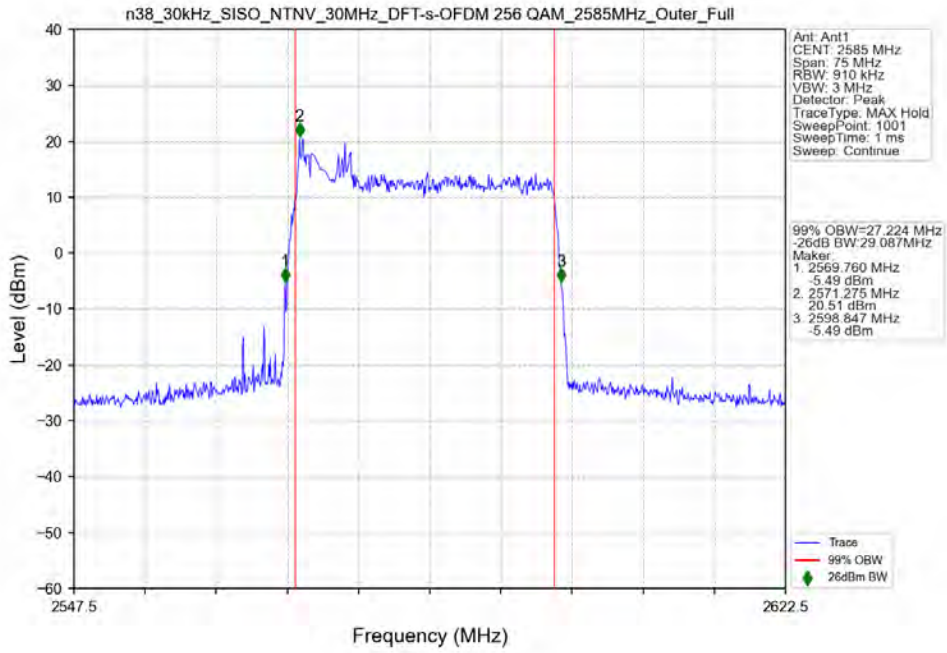
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2585MHz_Outer_Full



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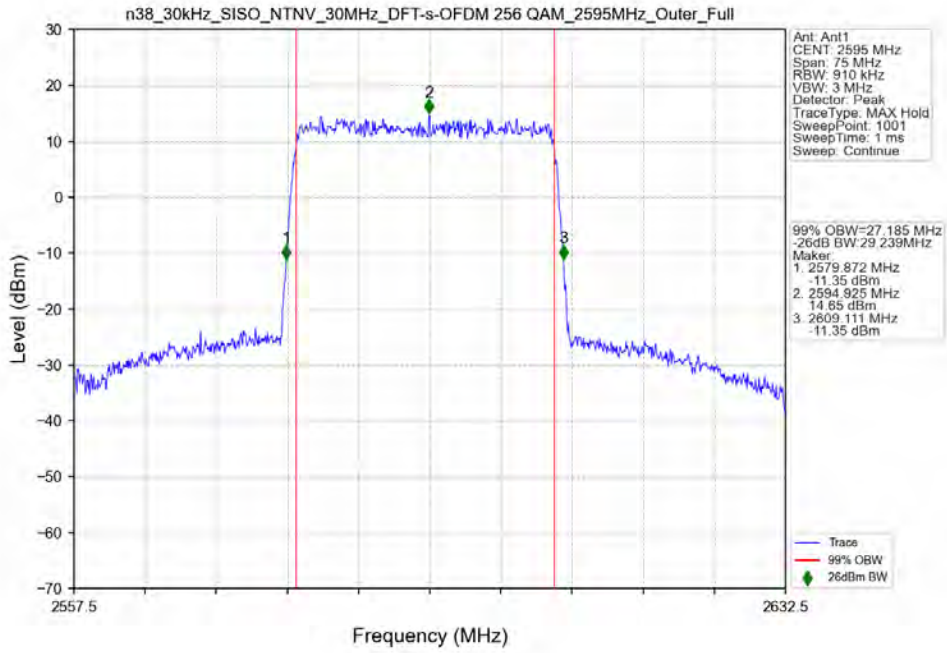
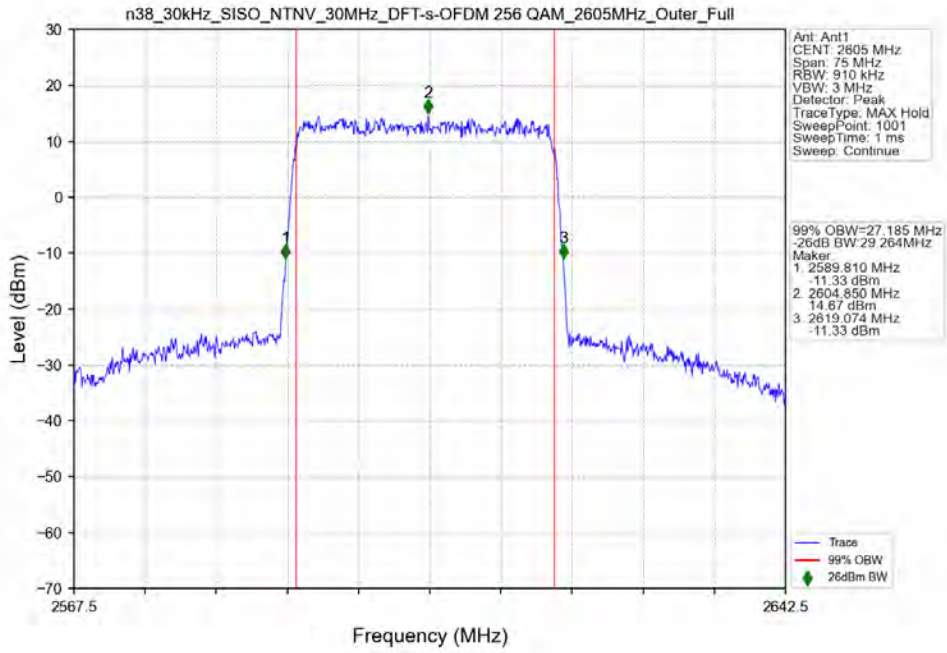
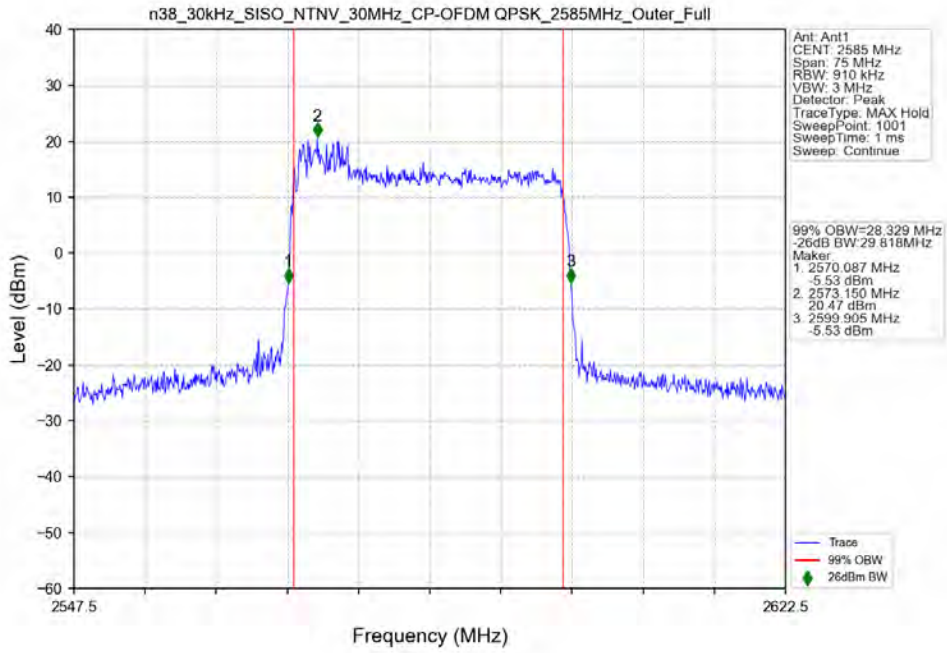


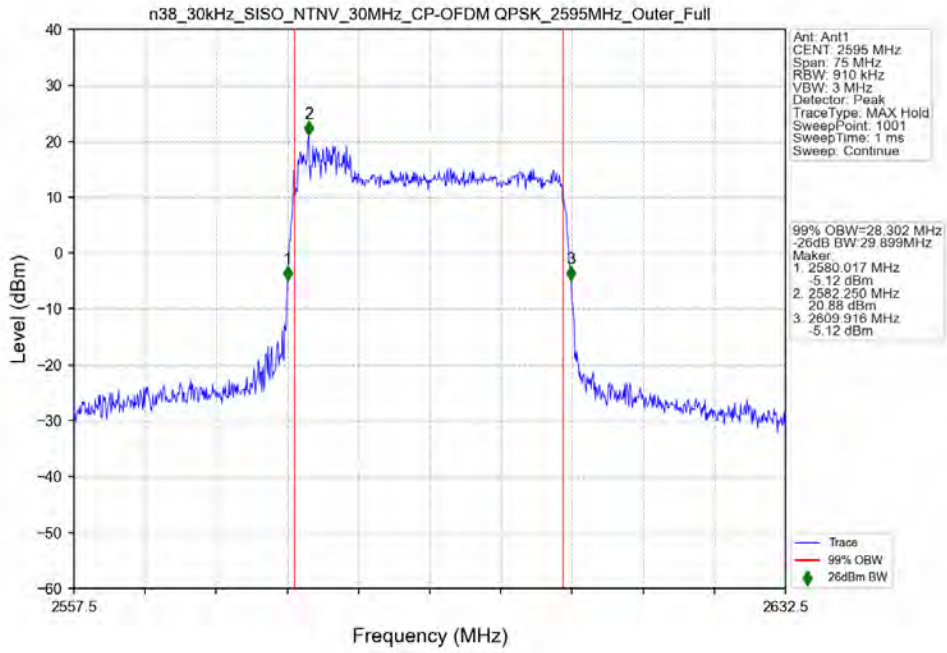
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2605MHz_Outer_Full



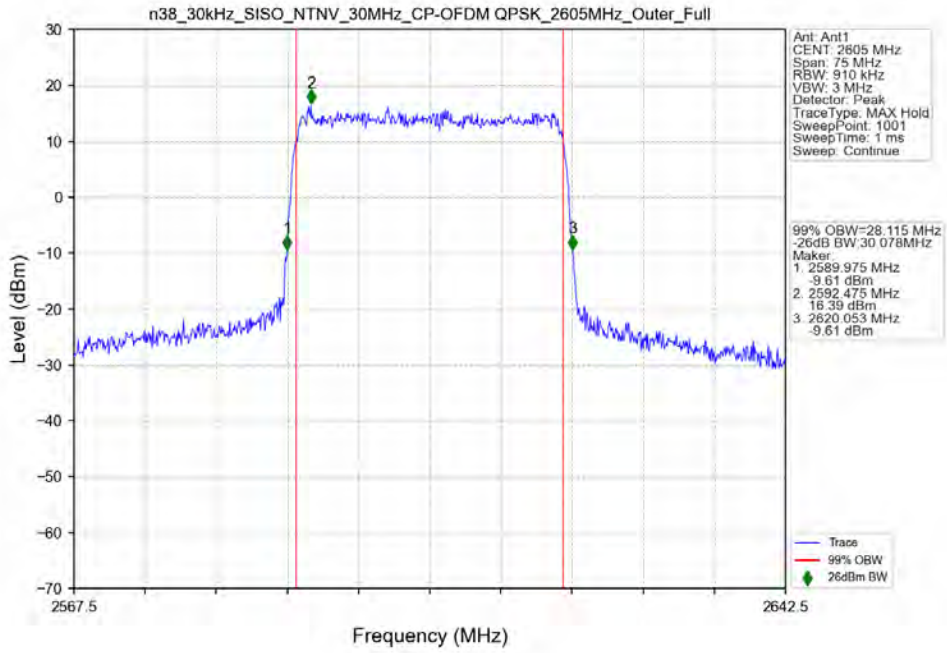
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2585MHz_Outer_Full



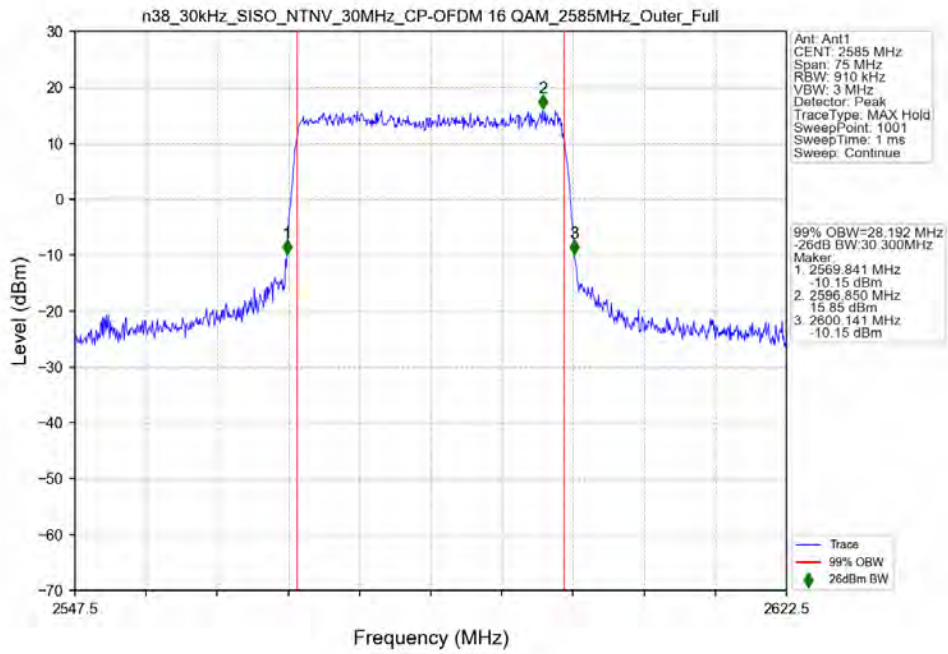
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2595MHz_Outer_Full



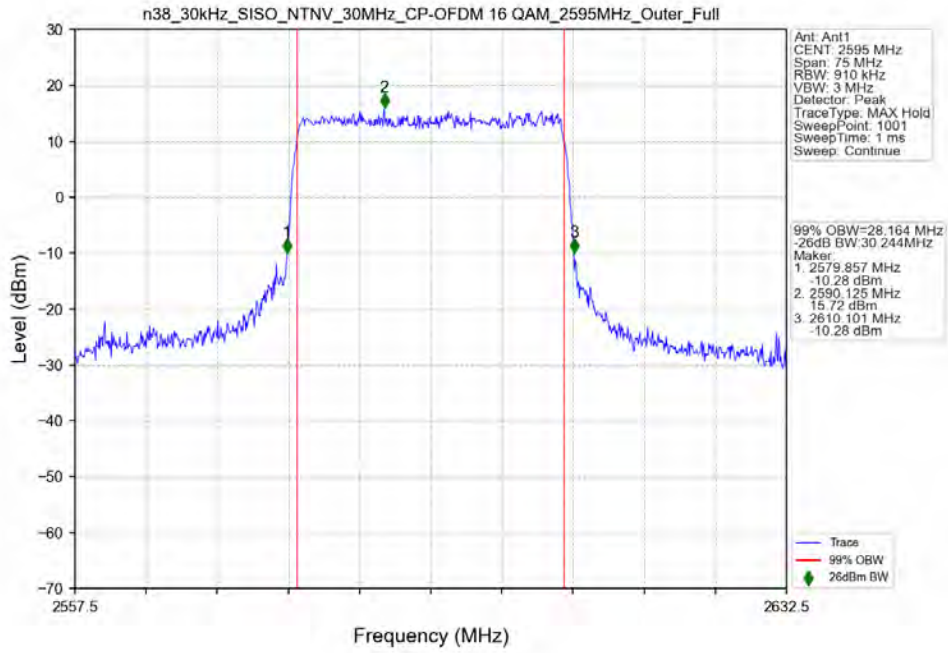
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Outer_Full



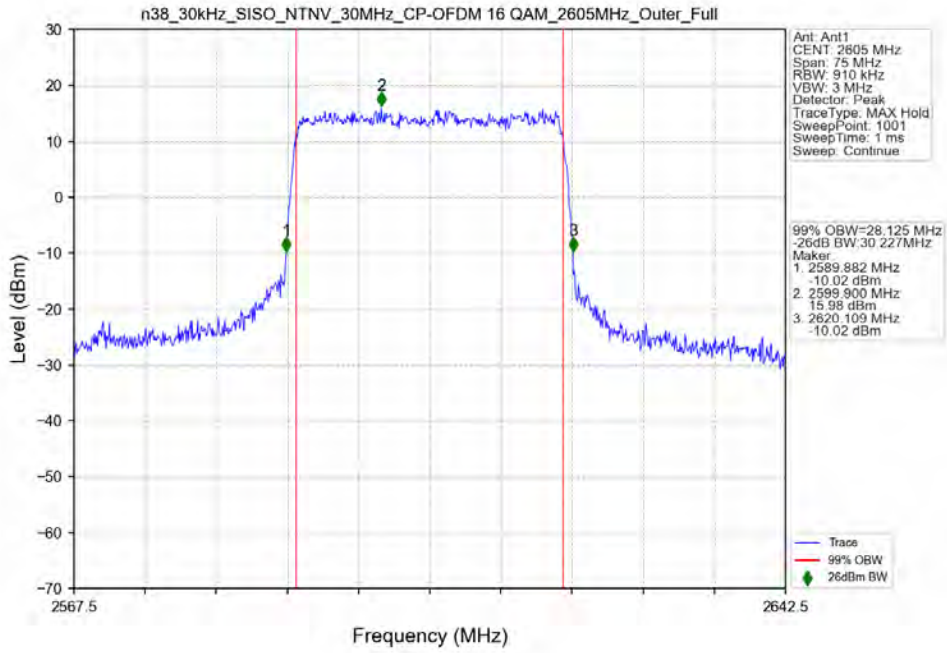
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2585MHz_Outer_Full



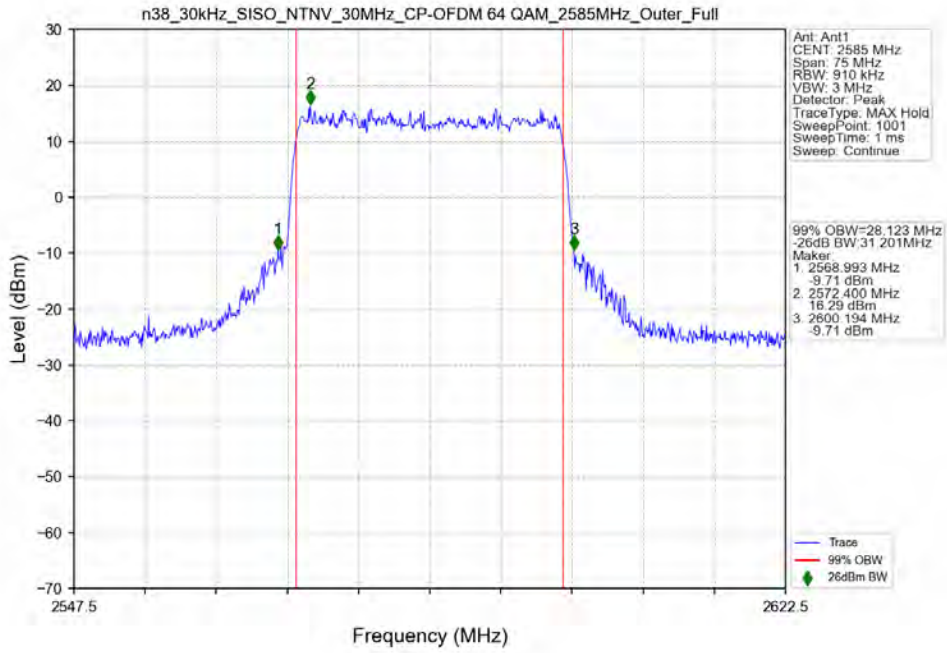
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



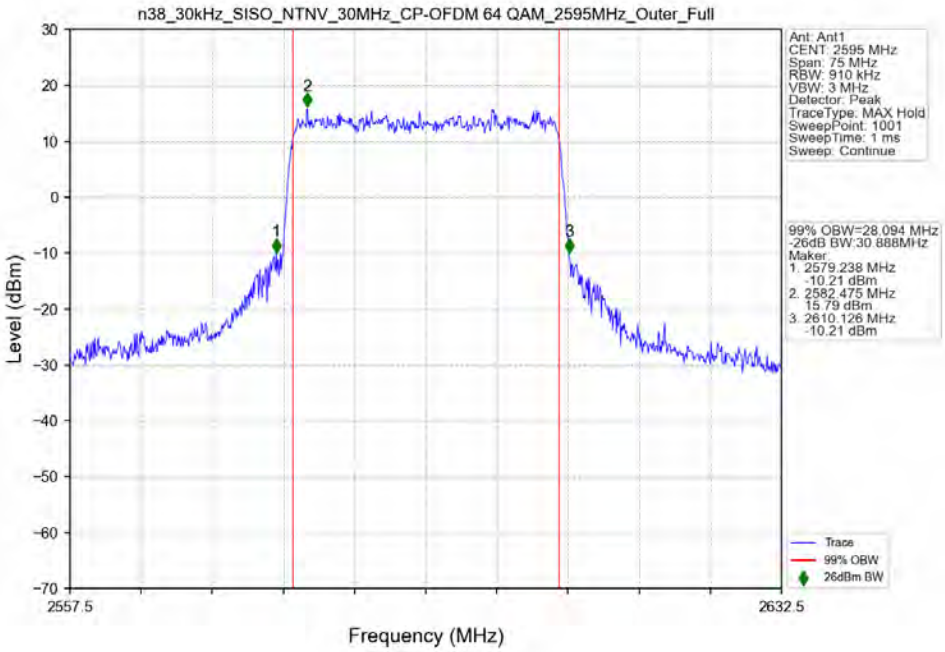
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2605MHz_Outer_Full



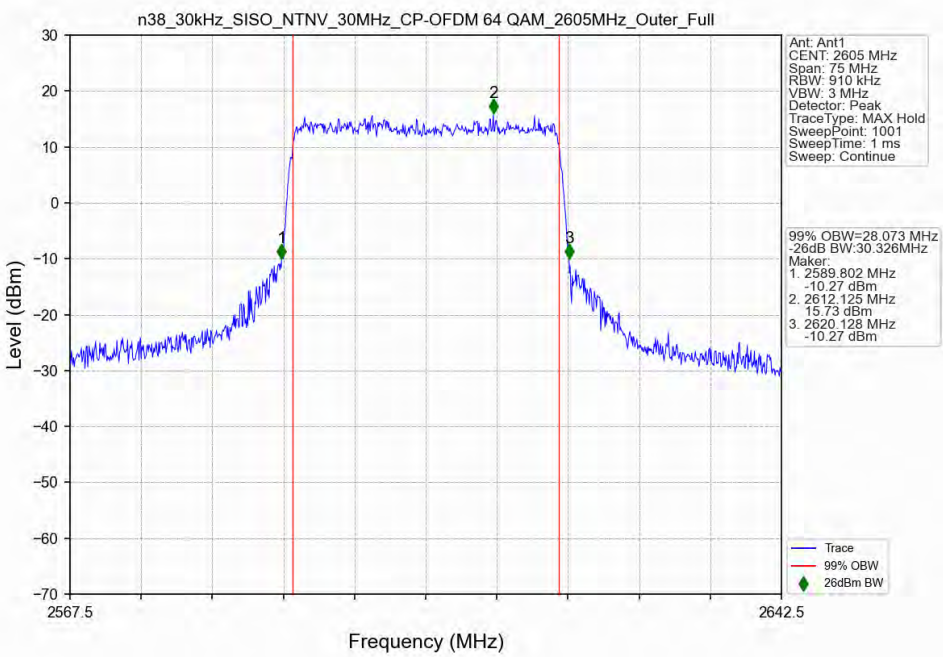
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2585MHz_Outer_Full



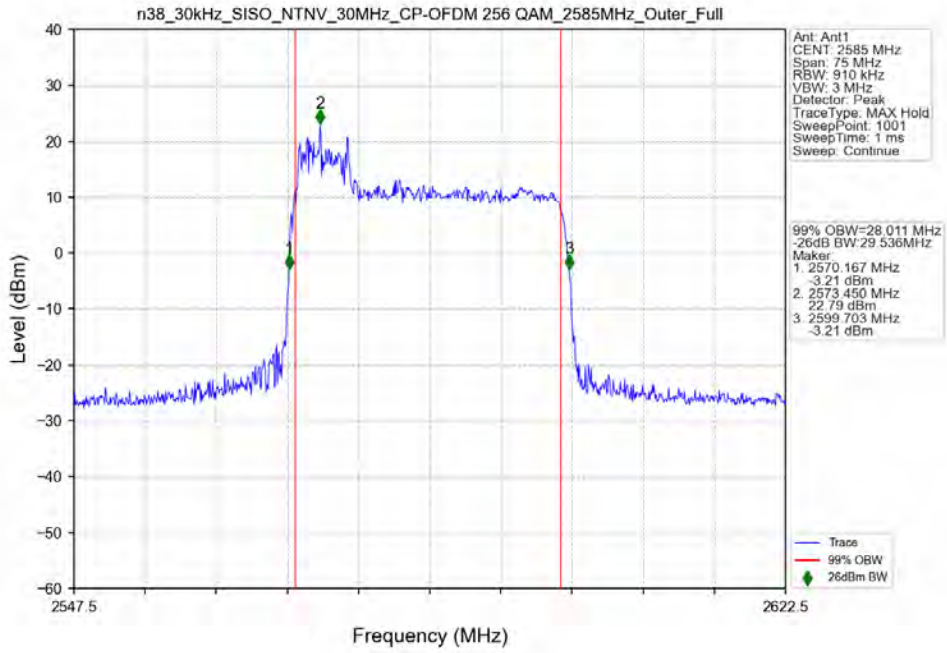
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



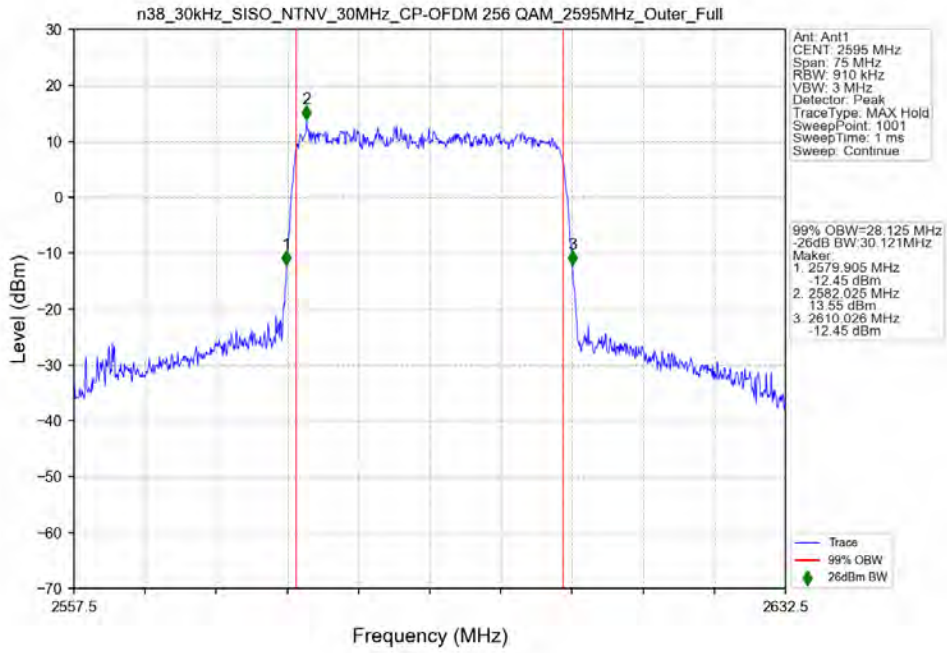
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2585MHz_Outer_Full



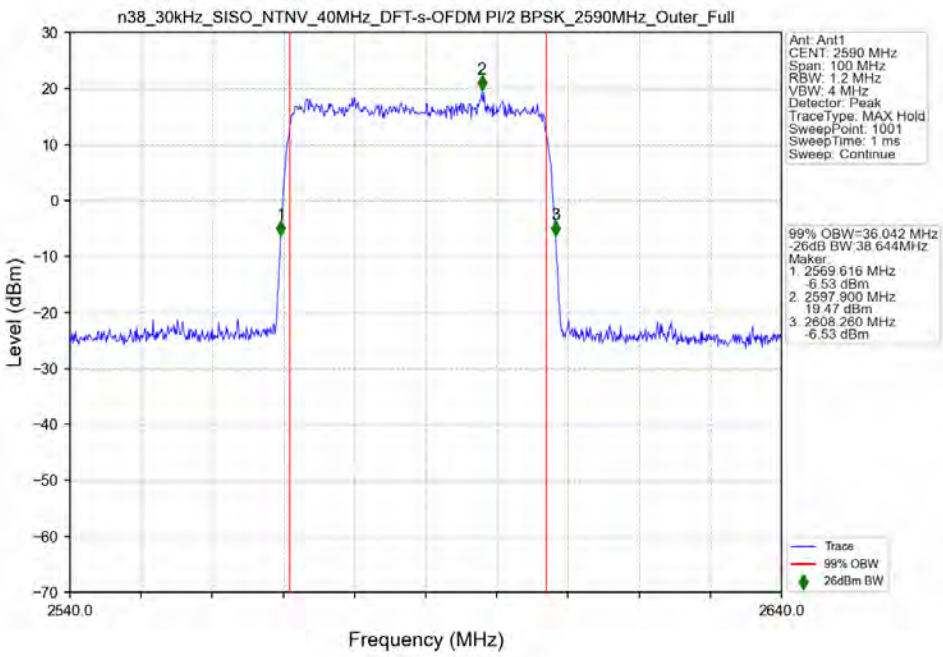
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2605MHz_Outer_Full

3.2.3 30k_SISO_40MHz_NTNV

n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2590MHz_Outer_Full



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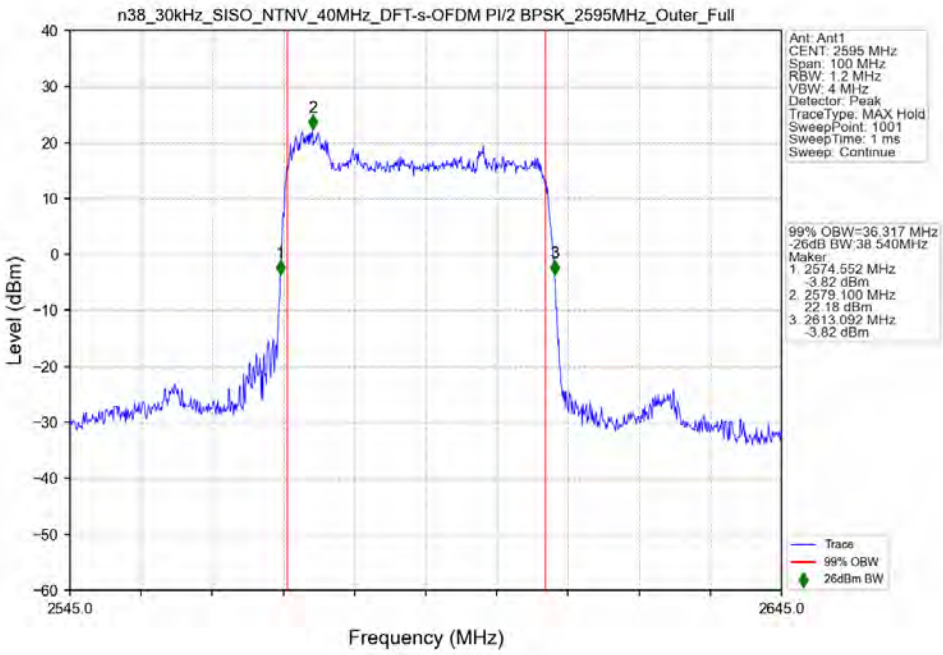

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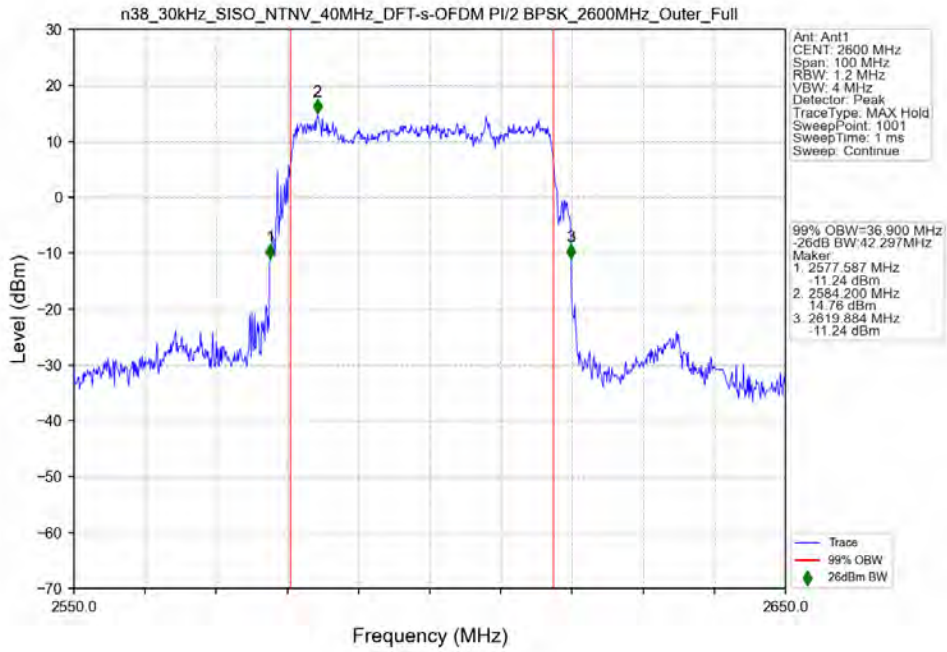
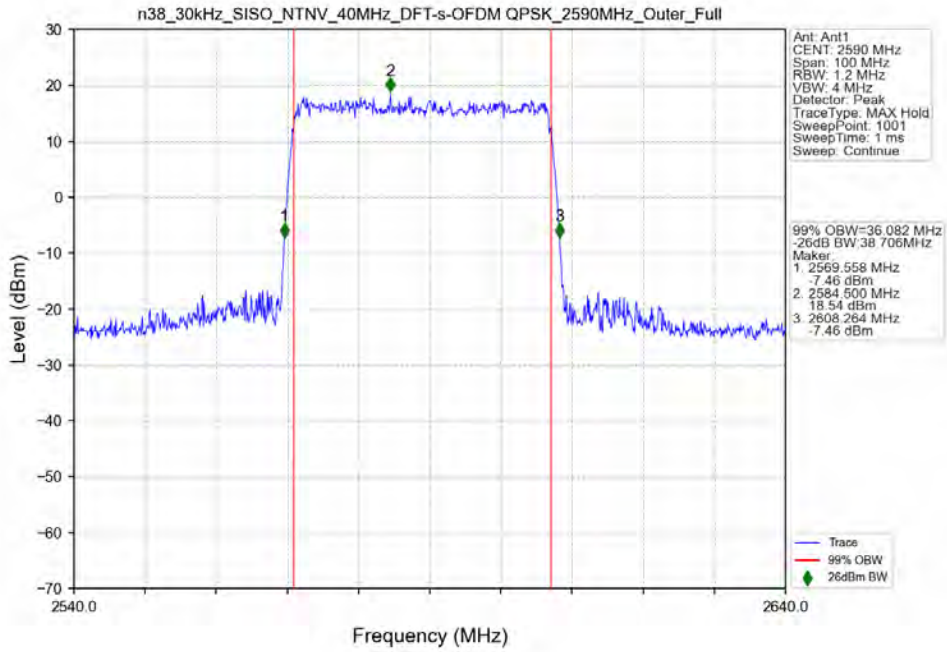
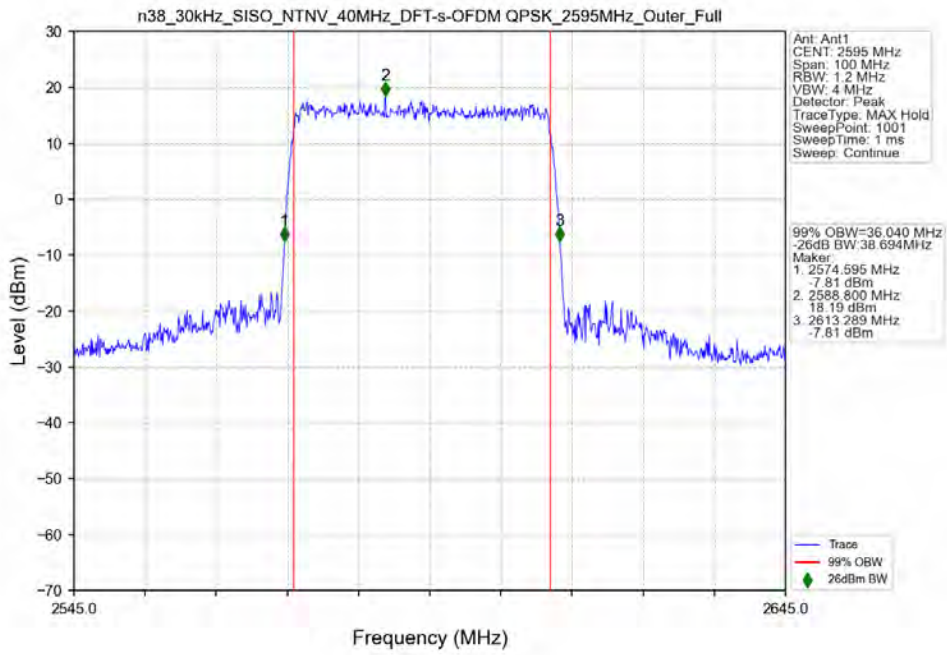


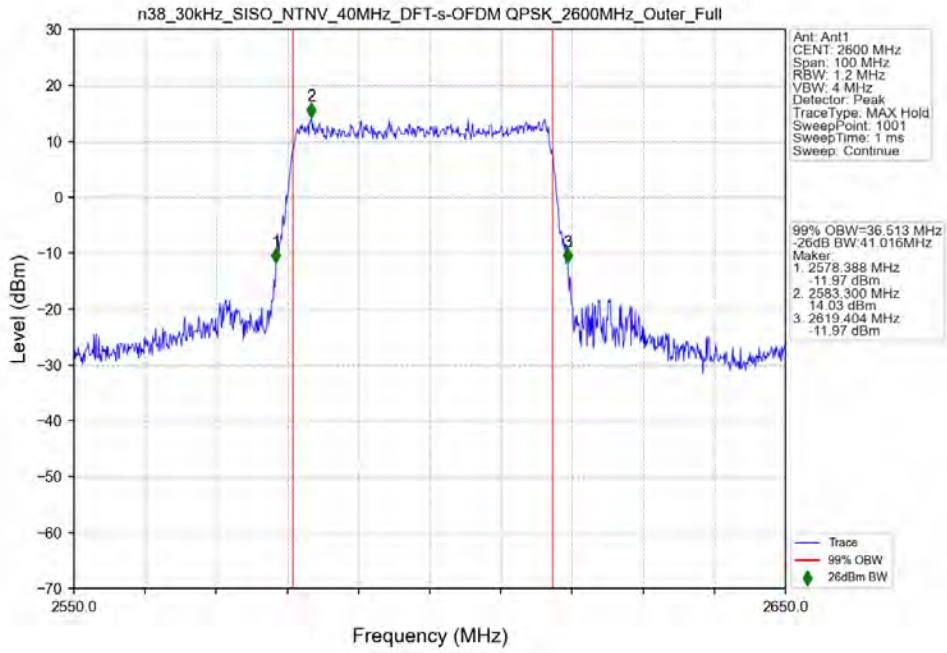
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full



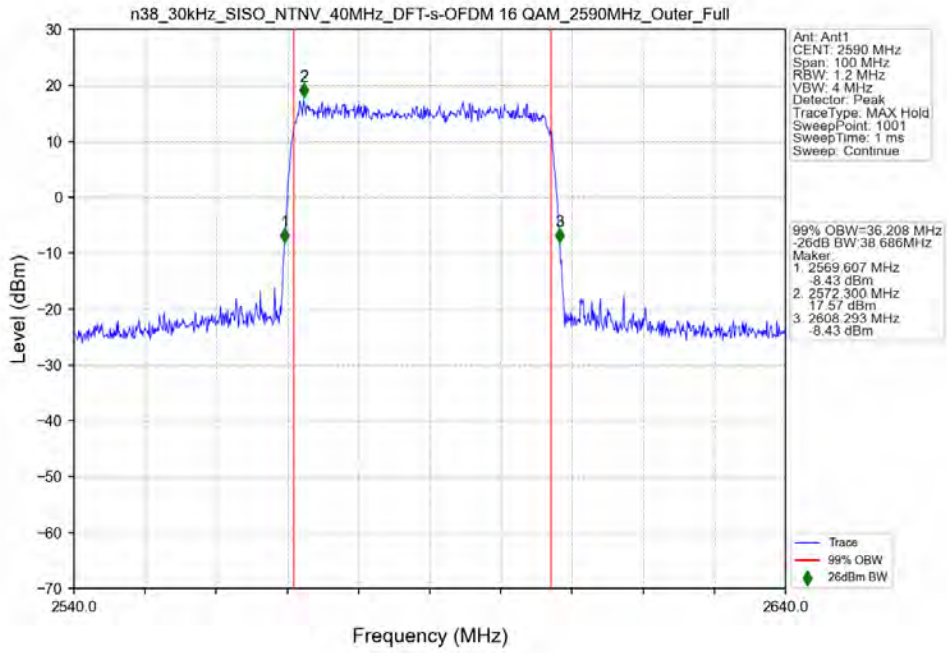
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



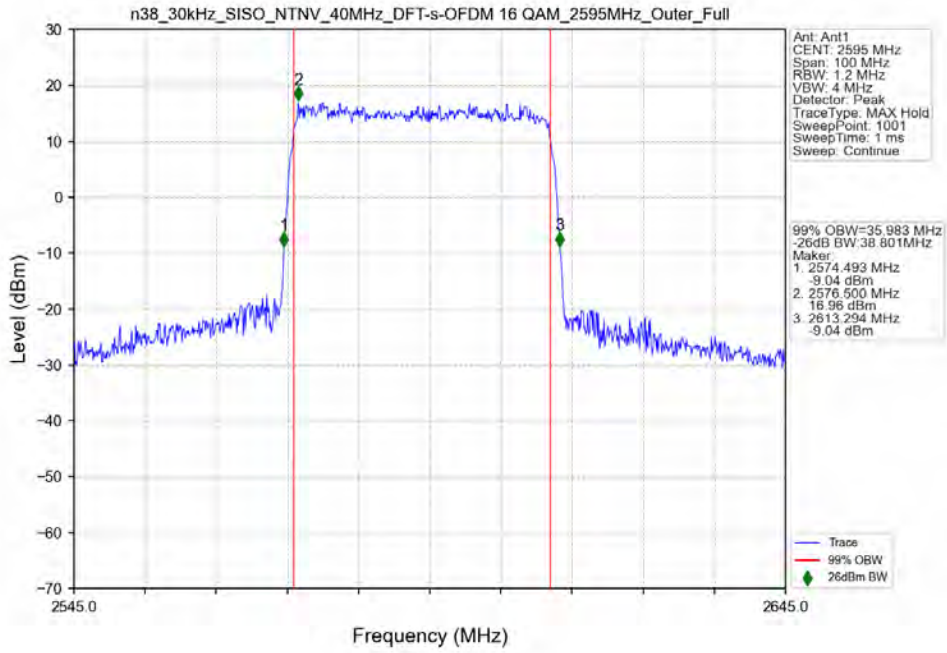
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Outer_Full



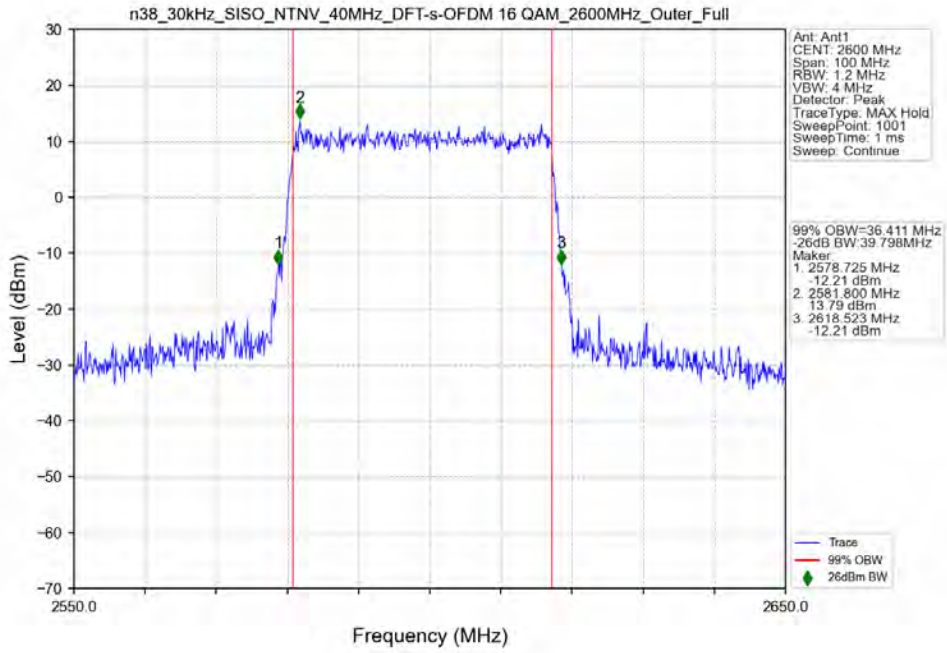
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2590MHz_Outer_Full



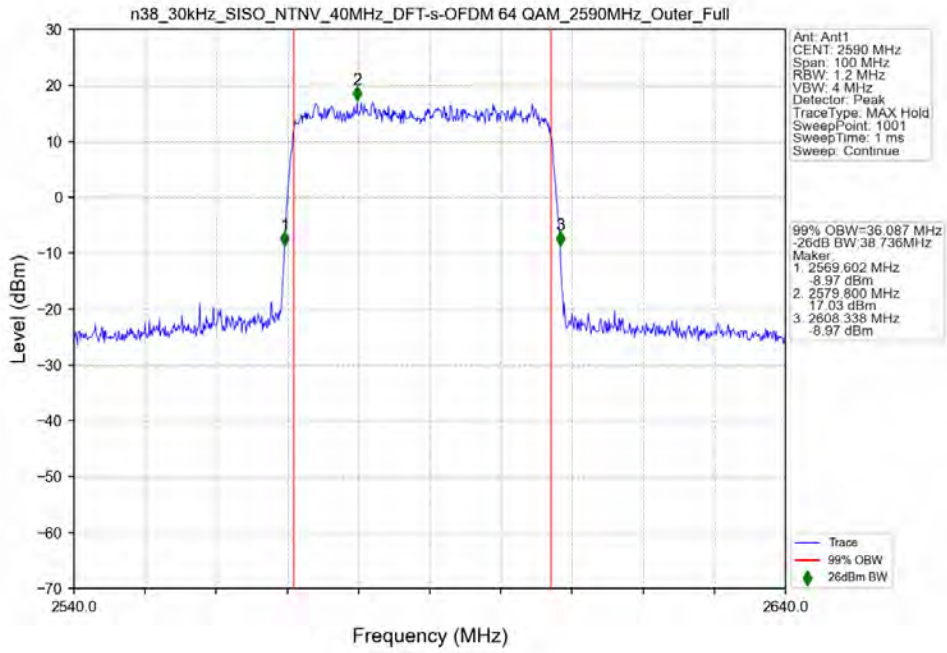
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full



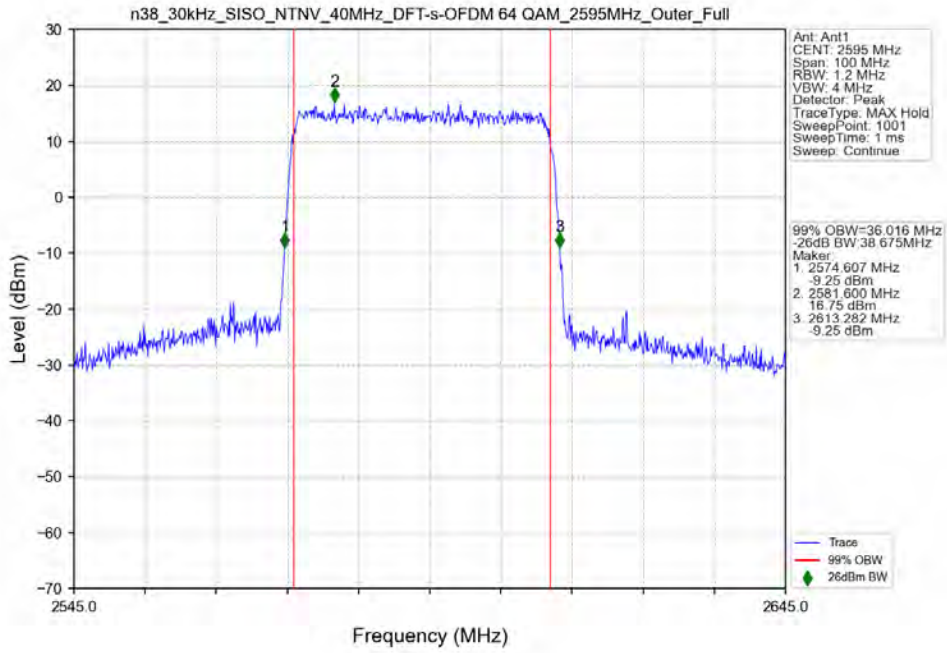
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2600MHz_Outer_Full



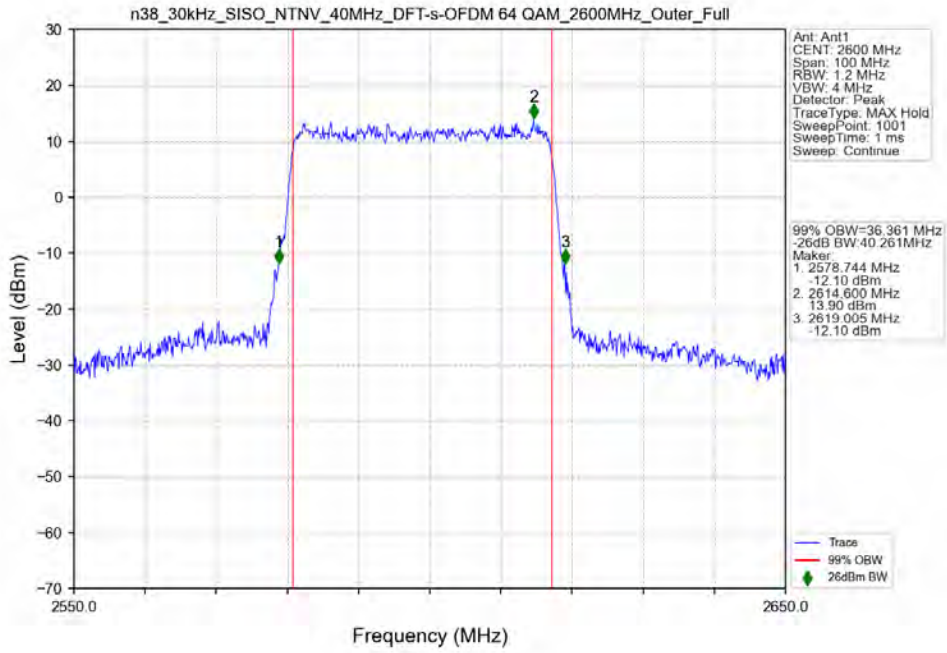
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2590MHz_Outer_Full



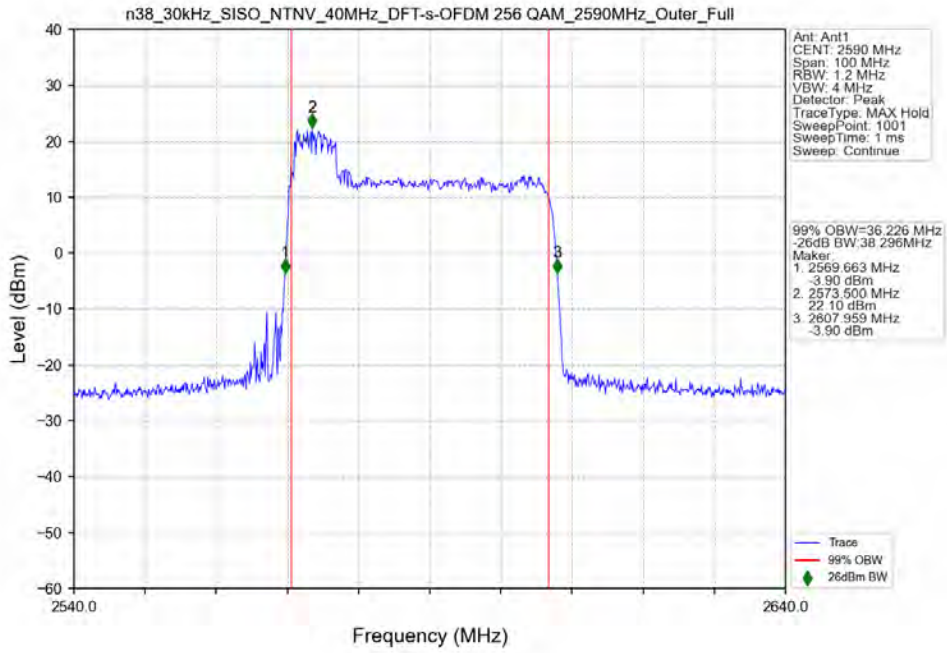
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



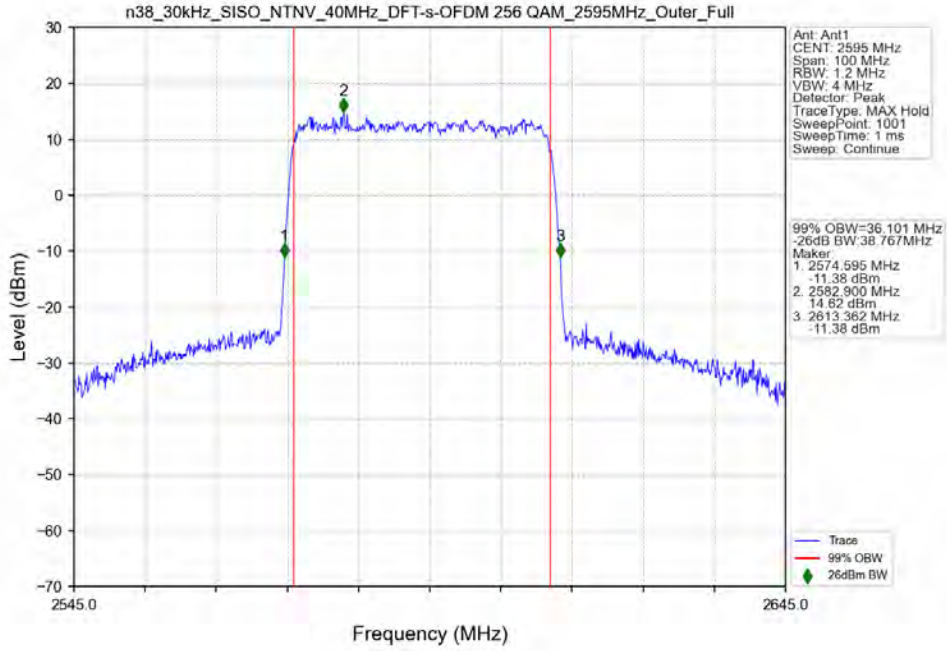
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2600MHz_Outer_Full



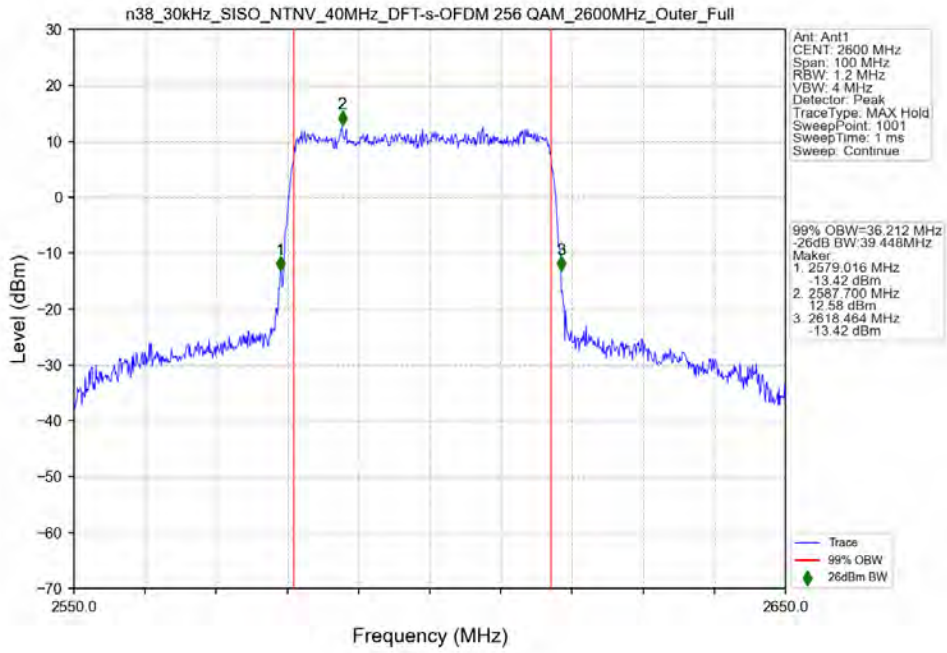
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2590MHz_Outer_Full



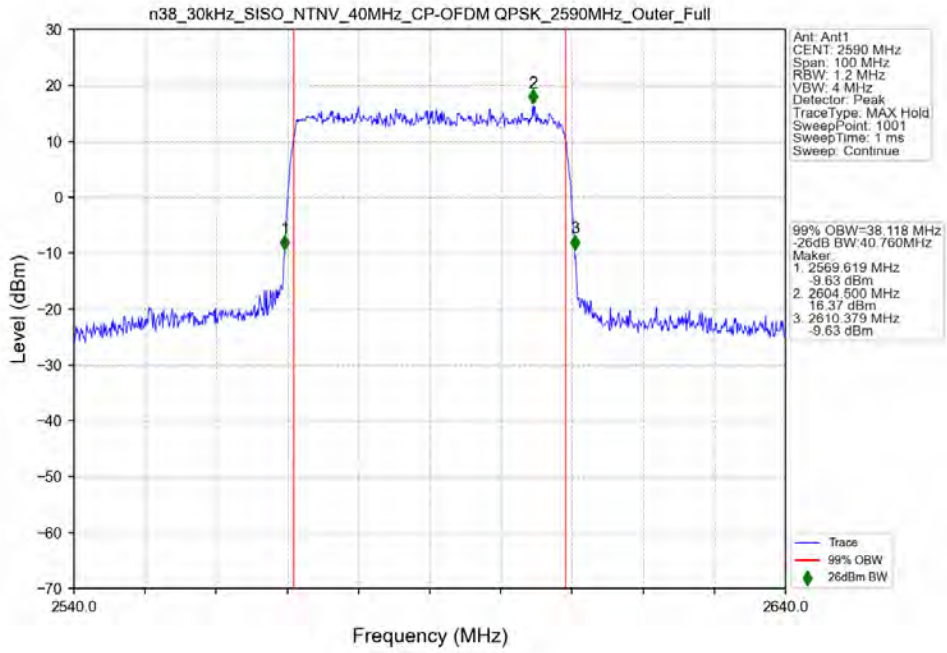
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full



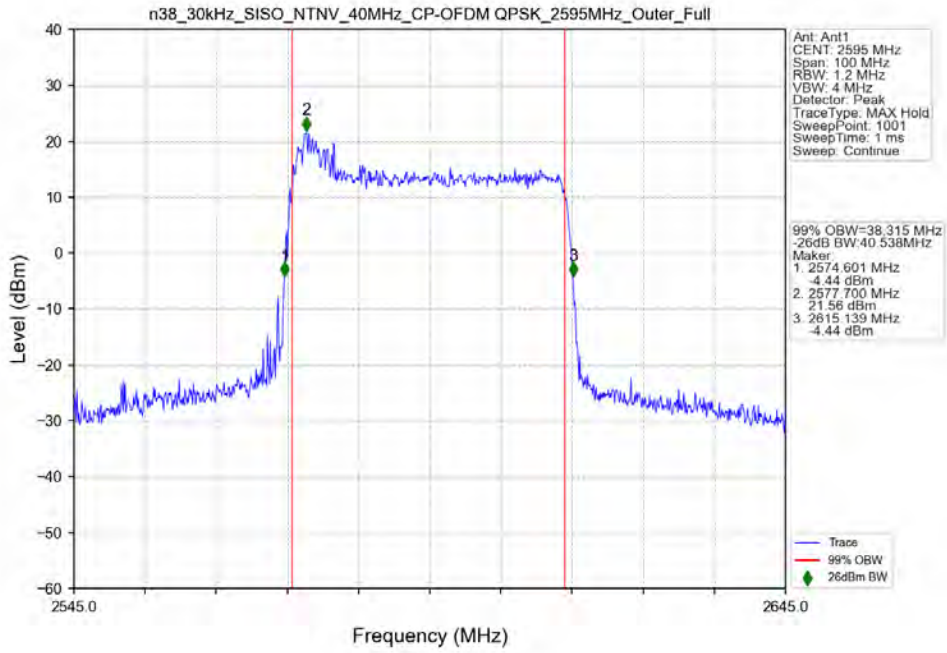
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2600MHz_Outer_Full



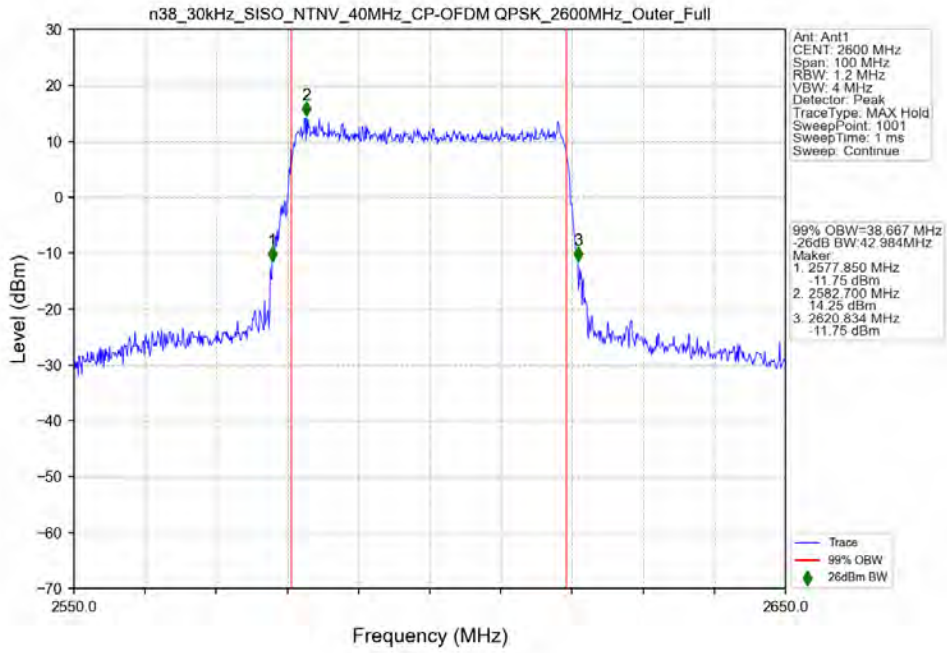
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2590MHz_Outer_Full



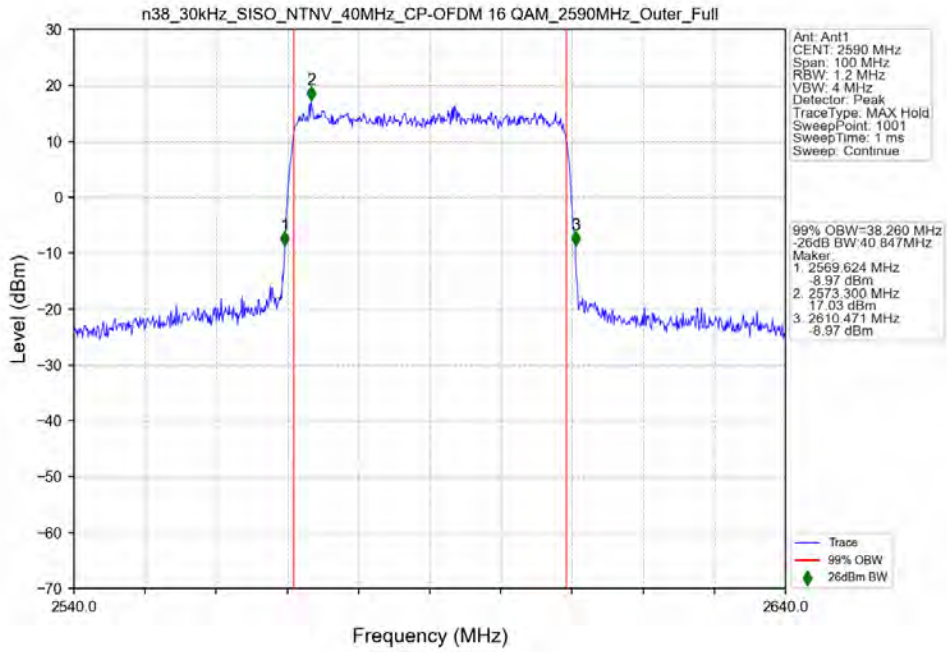
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2595MHz_Outer_Full



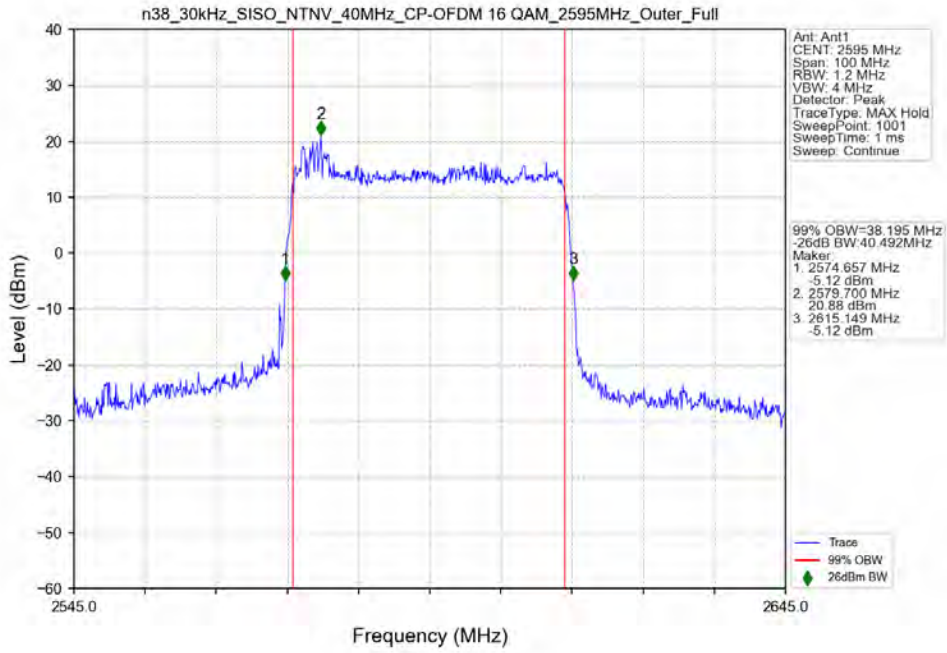
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2600MHz_Outer_Full



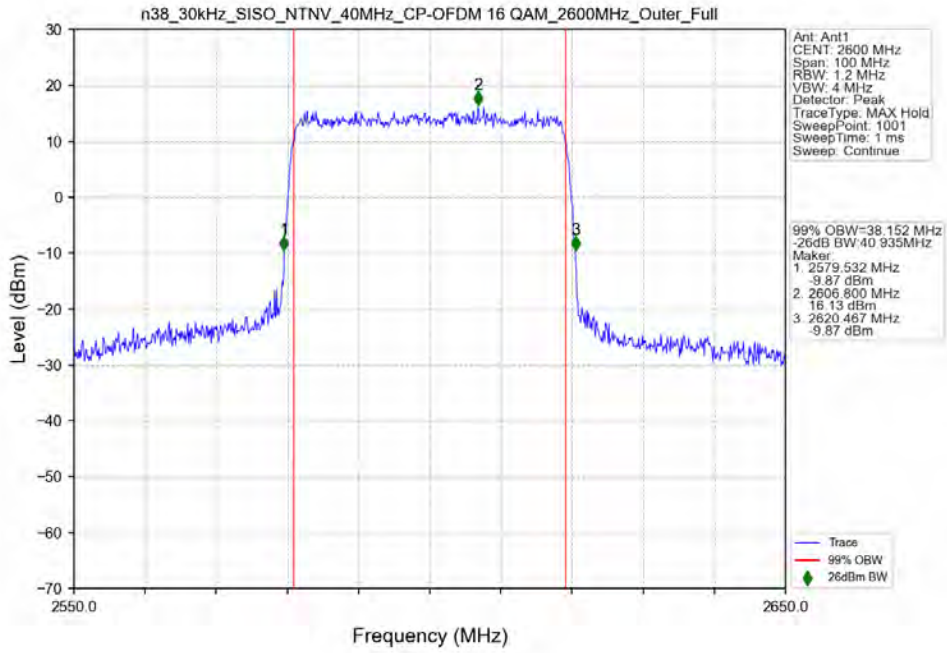
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2590MHz_Outer_Full



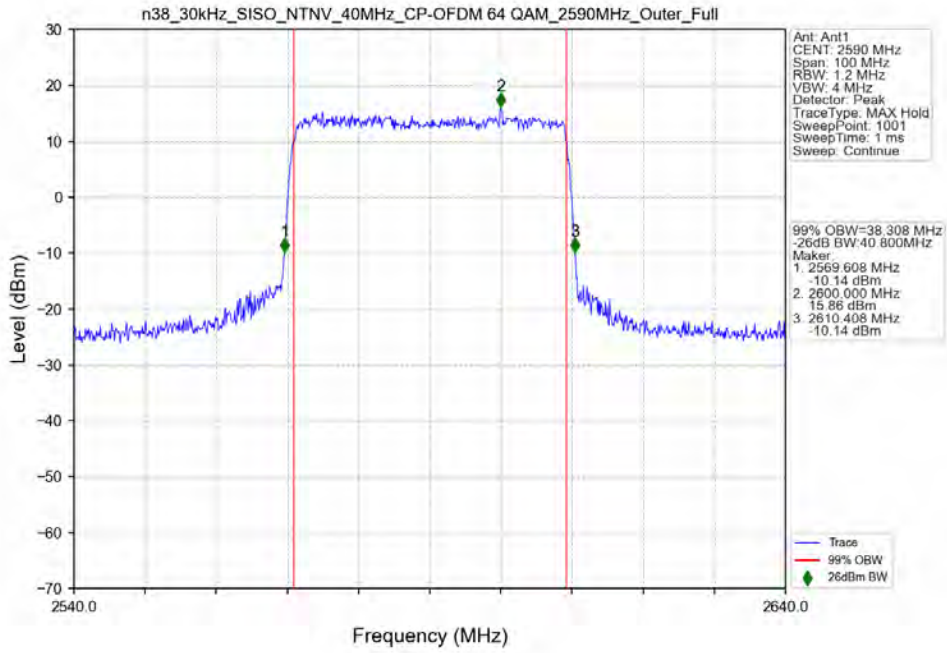
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



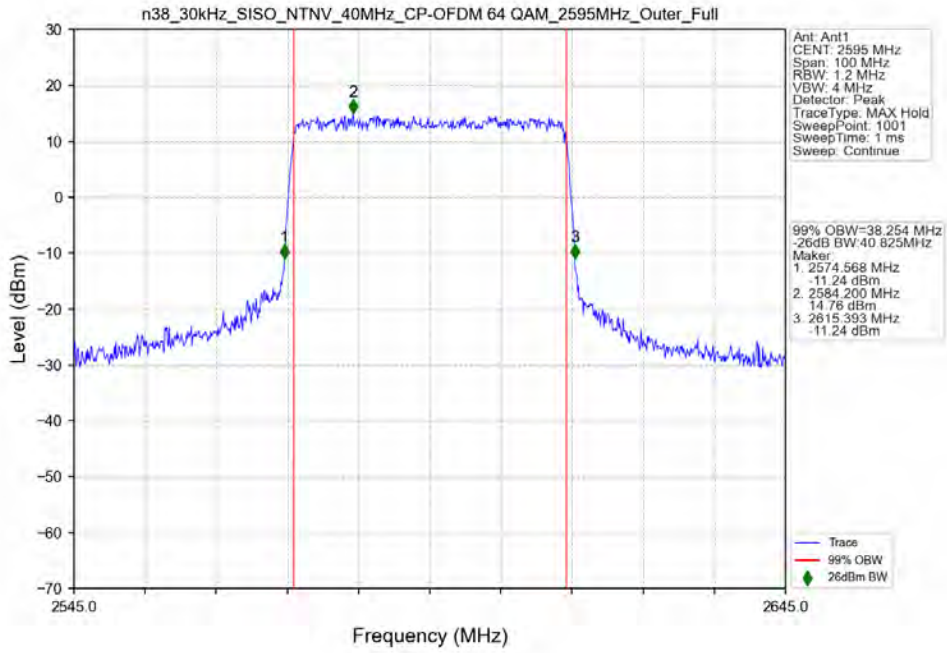
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full



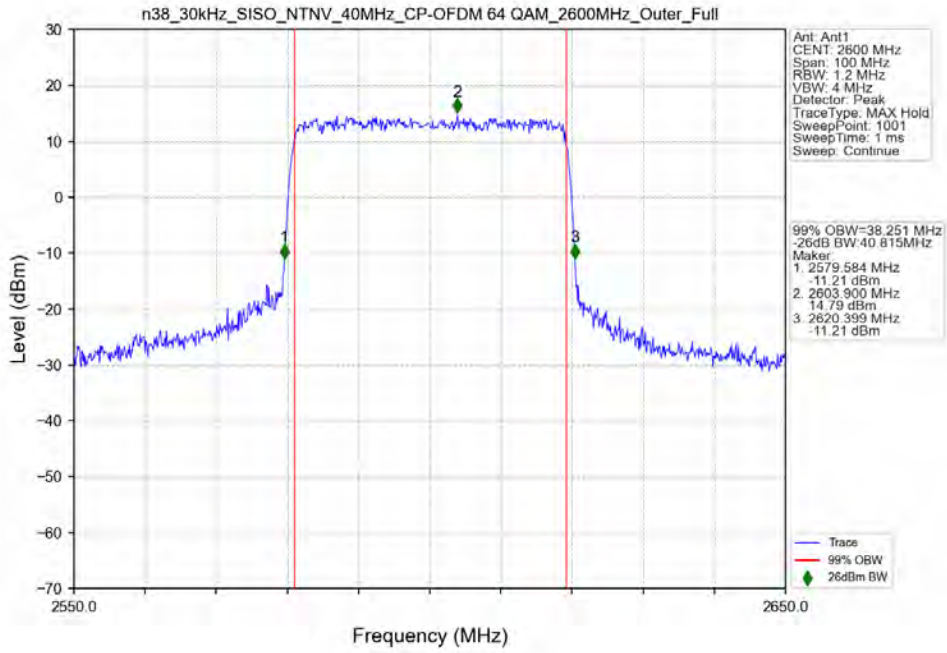
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2590MHz_Outer_Full



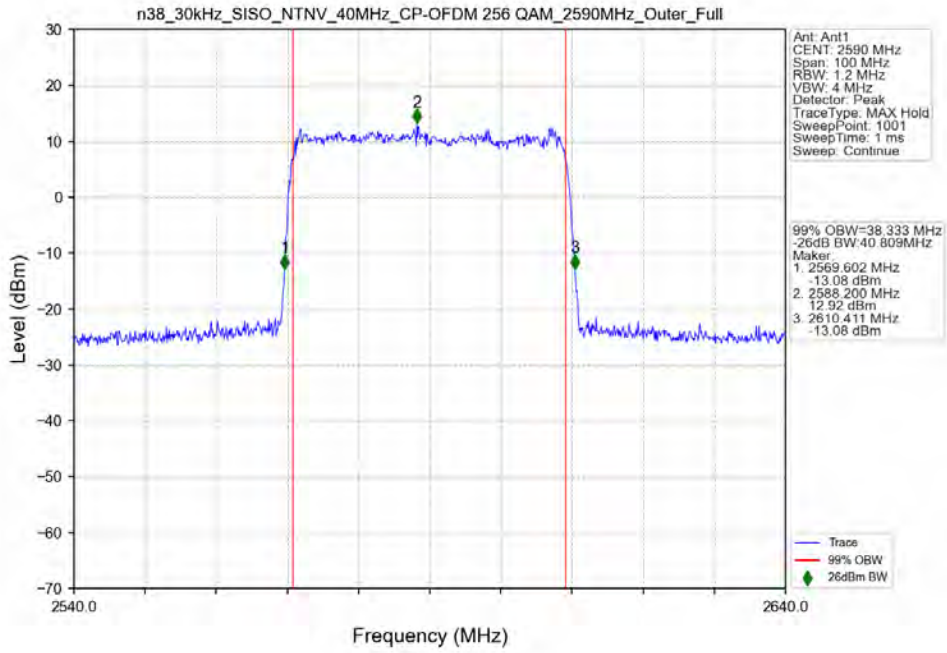
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



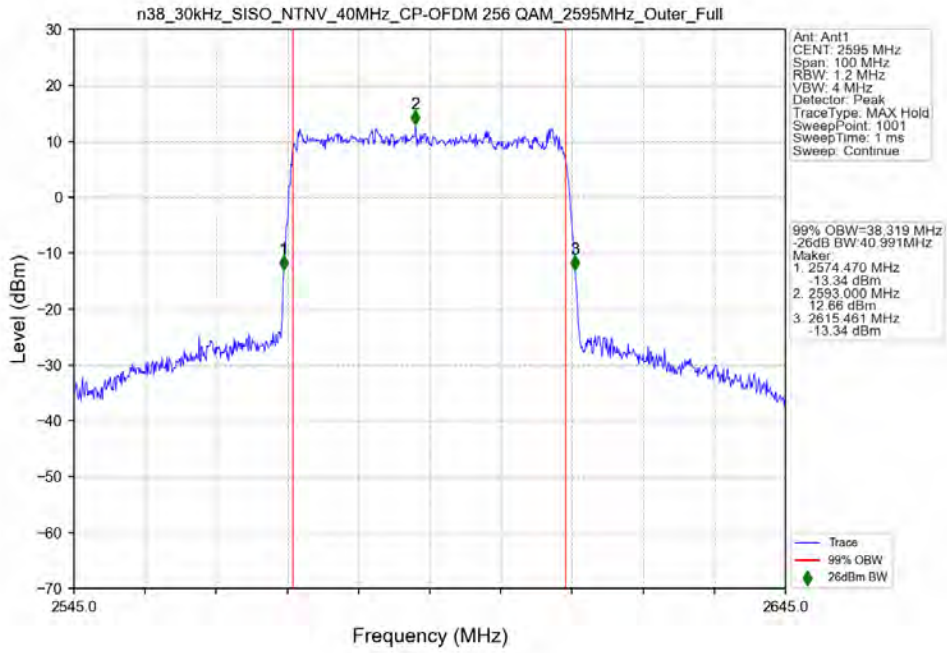
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2600MHz_Outer_Full



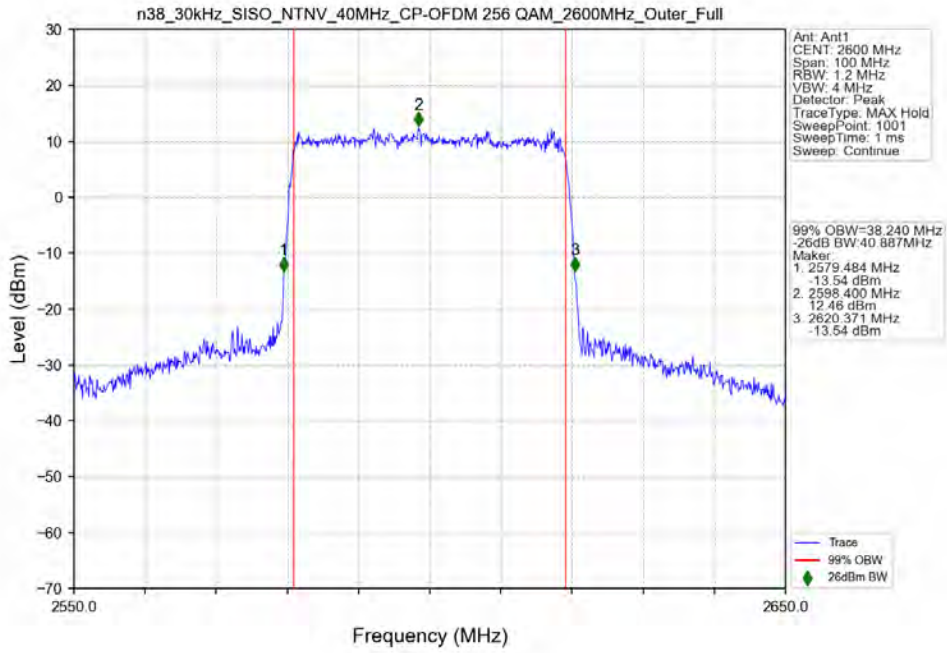
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2600MHz_Outer_Full



4. Peak-Average Ratio

4.1 Test Result

4.1.1 30k_SISO_20MHz_NTNV

5G NR n38 SCS=30kHz SISO 20MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	7.94	/	/	<=13	Pass
	2595	Outer_Full	7.92	/	/	<=13	Pass
	2610	Outer_Full	7.84	/	/	<=13	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	11.72	/	/	<=13	Pass
	2595	Outer_Full	11.72	/	/	<=13	Pass
	2610	Outer_Full	11.82	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	12.42	/	/	<=13	Pass
	2595	Outer_Full	12.42	/	/	<=13	Pass
	2610	Outer_Full	12.50	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	12.64	/	/	<=13	Pass
	2595	Outer_Full	12.64	/	/	<=13	Pass
	2610	Outer_Full	12.72	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	12.92	/	/	<=13	Pass
	2595	Outer_Full	12.90	/	/	<=13	Pass
	2610	Outer_Full	12.94	/	/	<=13	Pass
CP-OFDM QPSK	2580	Outer_Full	11.08	/	/	<=13	Pass
	2595	Outer_Full	11.18	/	/	<=13	Pass
	2610	Outer_Full	11.44	/	/	<=13	Pass
CP-OFDM 16 QAM	2580	Outer_Full	11.06	/	/	<=13	Pass
	2595	Outer_Full	11.14	/	/	<=13	Pass
	2610	Outer_Full	11.44	/	/	<=13	Pass
CP-OFDM 64 QAM	2580	Outer_Full	11.06	/	/	<=13	Pass
	2595	Outer_Full	11.56	/	/	<=13	Pass
	2610	Outer_Full	11.38	/	/	<=13	Pass
CP-OFDM 256 QAM	2580	Outer_Full	12.02	/	/	<=13	Pass
	2595	Outer_Full	12.06	/	/	<=13	Pass
	2610	Outer_Full	12.10	/	/	<=13	Pass

4.1.2 30k_SISO_30MHz_NTNV

5G NR n38 SCS=30kHz SISO 30MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	7.80	/	/	<=13	Pass
	2595	Outer_Full	7.80	/	/	<=13	Pass
	2605	Outer_Full	7.96	/	/	<=13	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	11.66	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2605	Outer_Full	11.76	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	12.40	/	/	<=13	Pass
	2595	Outer_Full	12.42	/	/	<=13	Pass
	2605	Outer_Full	12.48	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	12.66	/	/	<=13	Pass
	2595	Outer_Full	12.66	/	/	<=13	Pass
	2605	Outer_Full	12.74	/	/	<=13	Pass

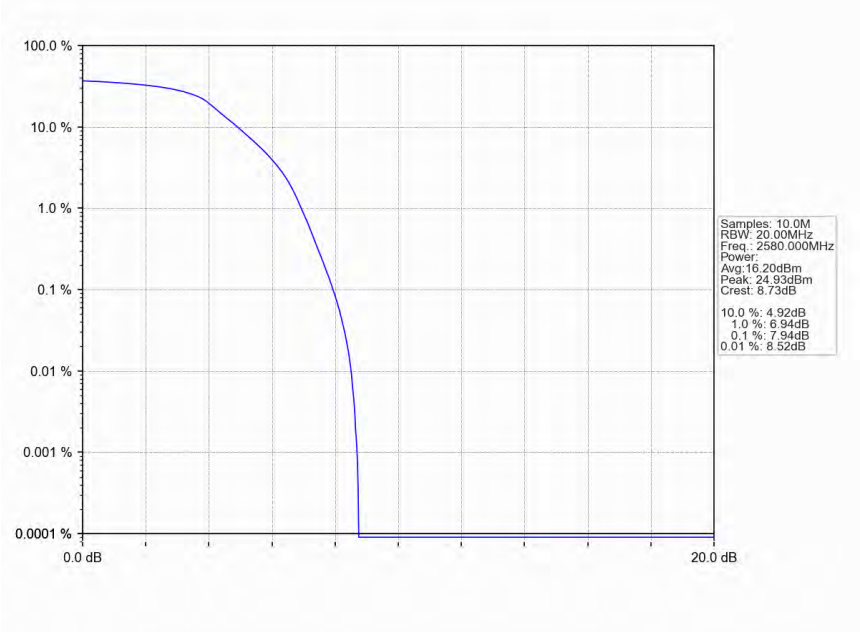
DFT-s-OFDM 256 QAM	2585	Outer_Full	12.94	/	/	<=13	Pass
	2595	Outer_Full	12.92	/	/	<=13	Pass
	2605	Outer_Full	12.94	/	/	<=13	Pass
CP-OFDM QPSK	2585	Outer_Full	11.16	/	/	<=13	Pass
	2595	Outer_Full	11.02	/	/	<=13	Pass
	2605	Outer_Full	11.18	/	/	<=13	Pass
CP-OFDM 16 QAM	2585	Outer_Full	11.12	/	/	<=13	Pass
	2595	Outer_Full	10.96	/	/	<=13	Pass
	2605	Outer_Full	11.24	/	/	<=13	Pass
CP-OFDM 64 QAM	2585	Outer_Full	11.08	/	/	<=13	Pass
	2595	Outer_Full	11.40	/	/	<=13	Pass
	2605	Outer_Full	11.06	/	/	<=13	Pass
CP-OFDM 256 QAM	2585	Outer_Full	12.16	/	/	<=13	Pass
	2595	Outer_Full	12.20	/	/	<=13	Pass
	2605	Outer_Full	12.22	/	/	<=13	Pass

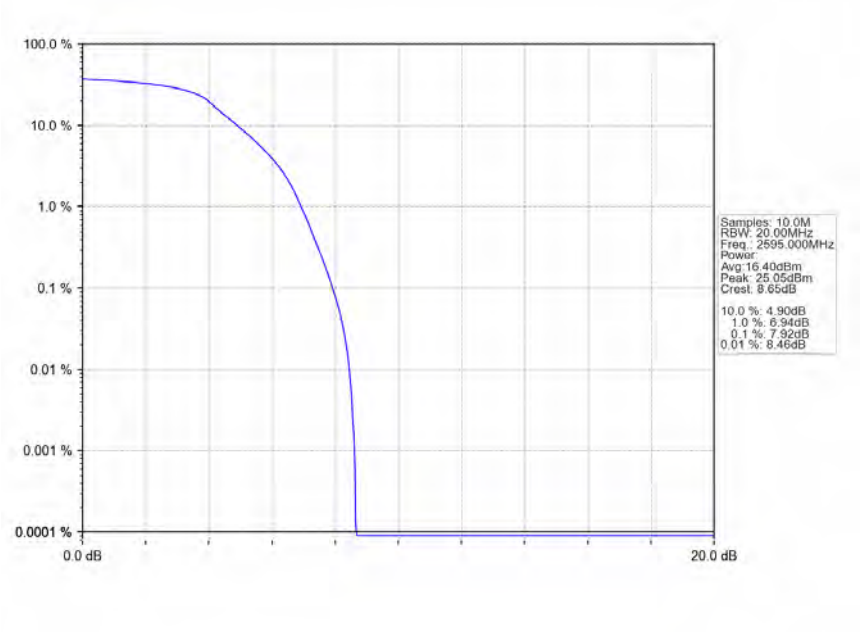
4.1.3 30k_SISO_40MHz_NTNV

5G NR n38 SCS=30kHz SISO 40MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	7.72	/	/	<=13	Pass
	2595	Outer_Full	7.84	/	/	<=13	Pass
	2600	Outer_Full	7.86	/	/	<=13	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	11.70	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2600	Outer_Full	11.70	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	12.38	/	/	<=13	Pass
	2595	Outer_Full	12.38	/	/	<=13	Pass
	2600	Outer_Full	12.38	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	12.62	/	/	<=13	Pass
	2595	Outer_Full	12.64	/	/	<=13	Pass
	2600	Outer_Full	12.66	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	12.90	/	/	<=13	Pass
	2595	Outer_Full	12.90	/	/	<=13	Pass
	2600	Outer_Full	12.90	/	/	<=13	Pass
CP-OFDM QPSK	2590	Outer_Full	10.82	/	/	<=13	Pass
	2595	Outer_Full	8.46	/	/	<=13	Pass
	2600	Outer_Full	11.12	/	/	<=13	Pass
CP-OFDM 16 QAM	2590	Outer_Full	10.94	/	/	<=13	Pass
	2595	Outer_Full	11.20	/	/	<=13	Pass
	2600	Outer_Full	11.22	/	/	<=13	Pass
CP-OFDM 64 QAM	2590	Outer_Full	11.30	/	/	<=13	Pass
	2595	Outer_Full	11.46	/	/	<=13	Pass
	2600	Outer_Full	11.52	/	/	<=13	Pass
CP-OFDM 256 QAM	2590	Outer_Full	12.02	/	/	<=13	Pass
	2595	Outer_Full	12.02	/	/	<=13	Pass
	2600	Outer_Full	12.04	/	/	<=13	Pass

4.2 Test Graph

4.2.1 30k_SISO_20MHz_NTNV

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Outer_Full_Ant1


n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full_Ant1


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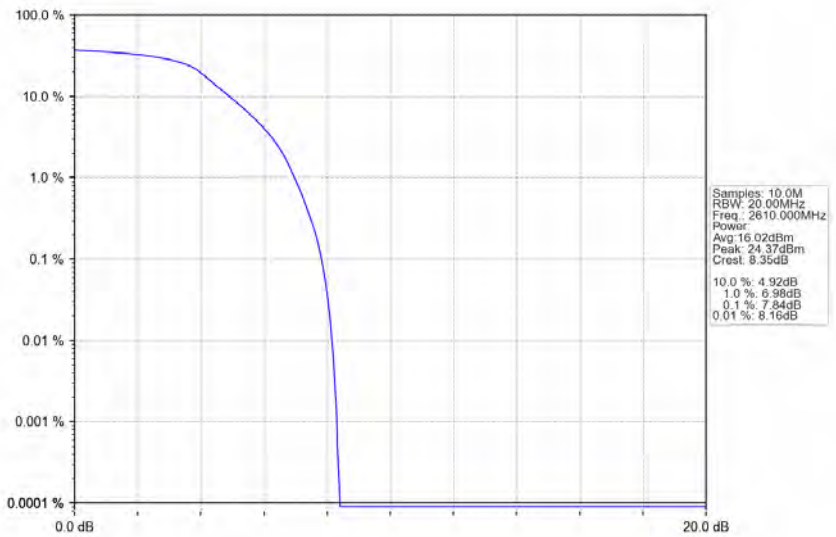
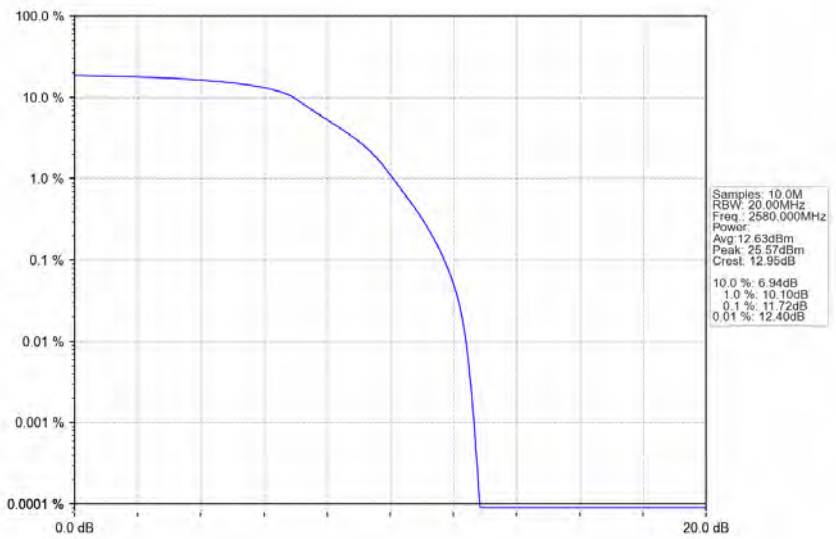
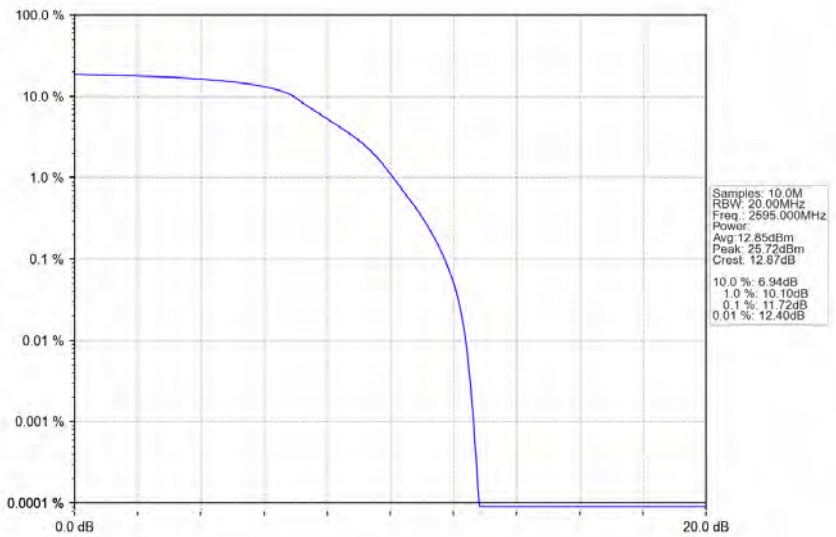


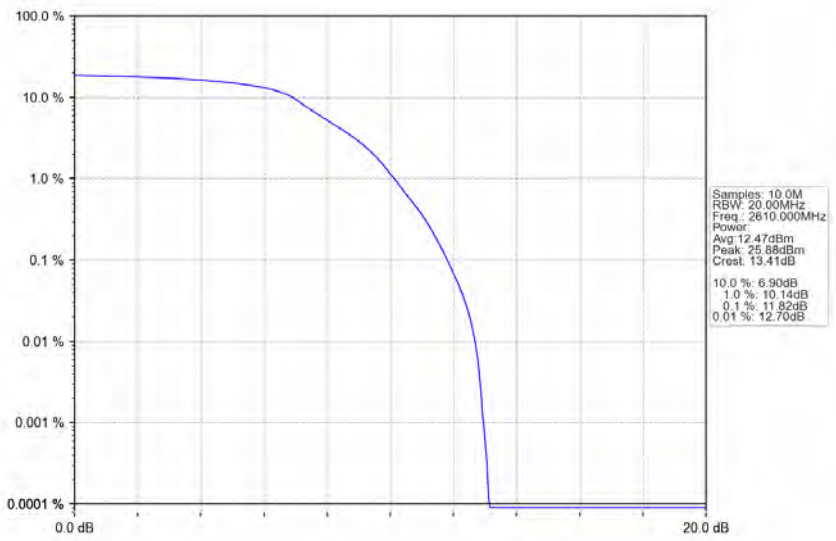
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Outer_Full_Ant1



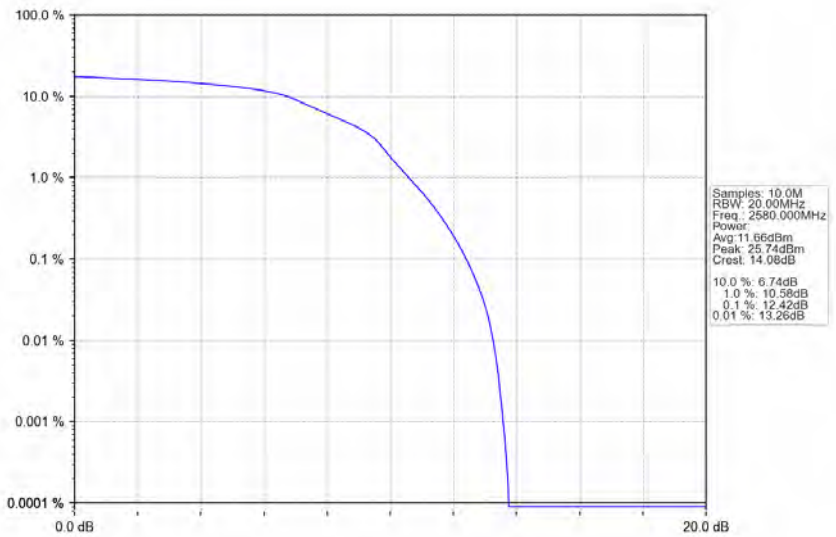
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2580MHz_Outer_Full_Ant1



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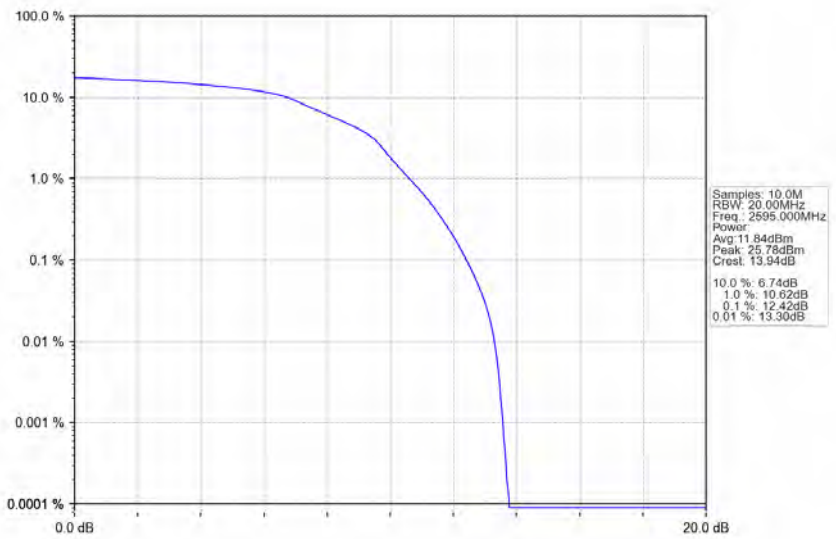
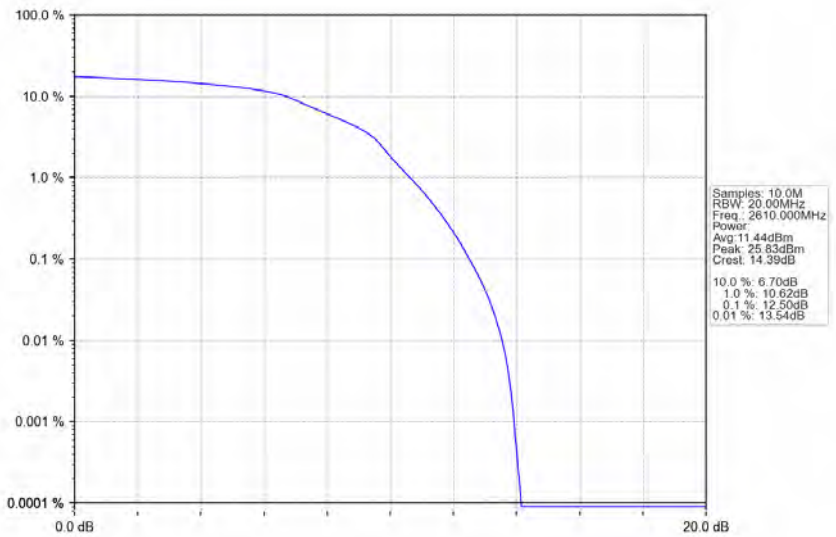
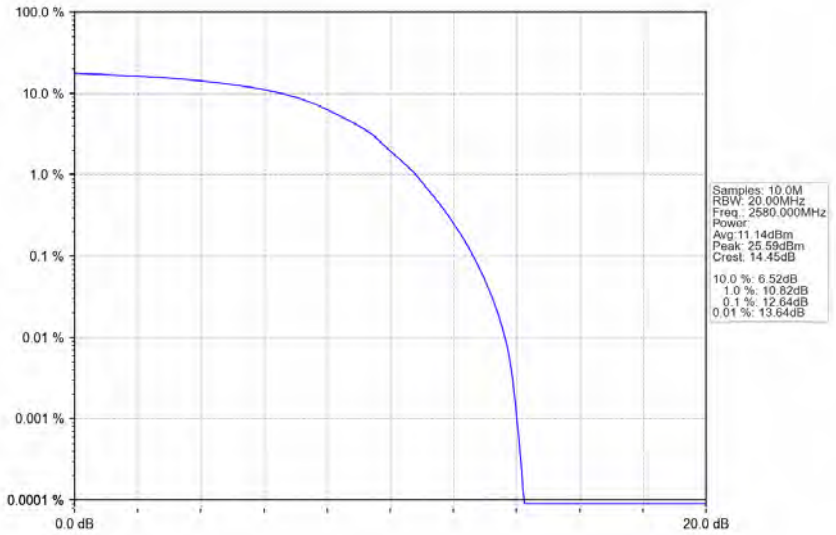


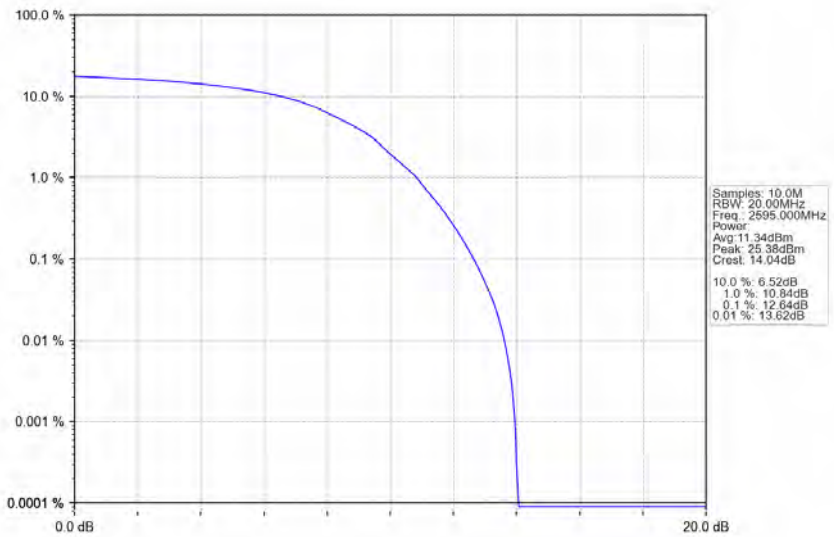
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2610MHz_Outer_Full_Ant1



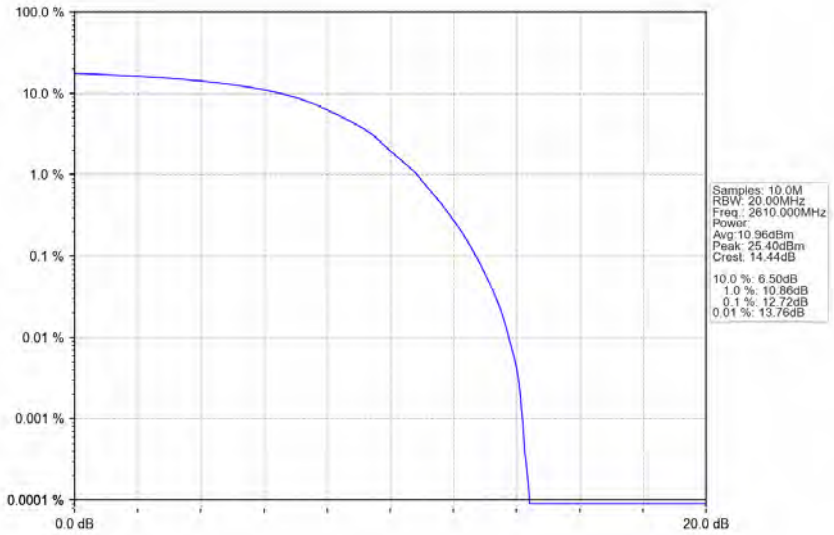
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2580MHz_Outer_Full_Ant1



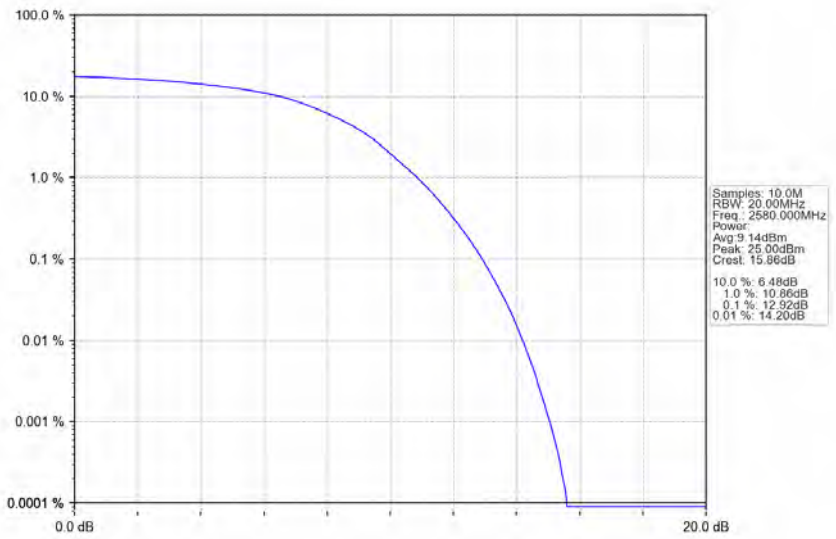
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full_Ant1



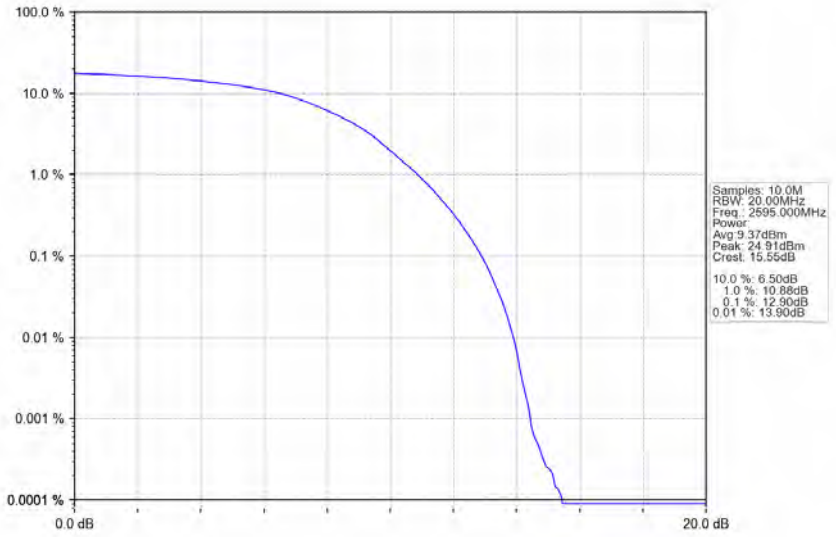
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2610MHz_Outer_Full_Ant1



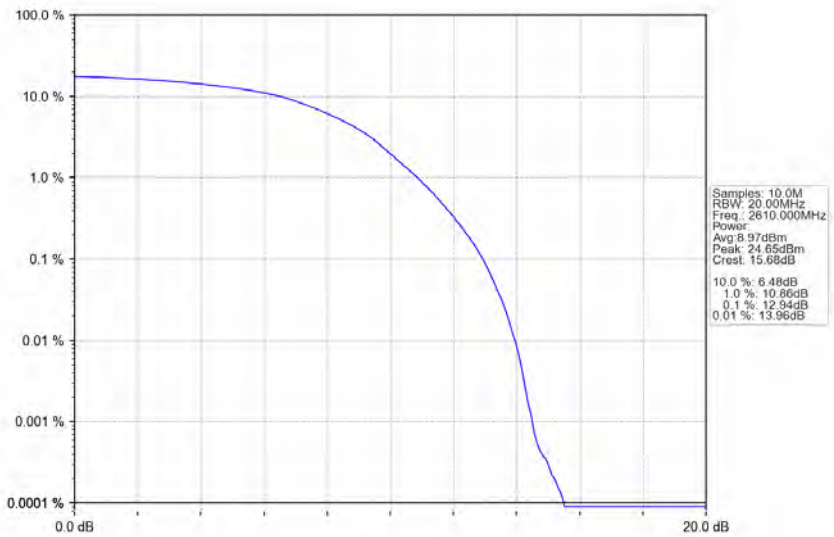
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2580MHz_Outer_Full_Ant1



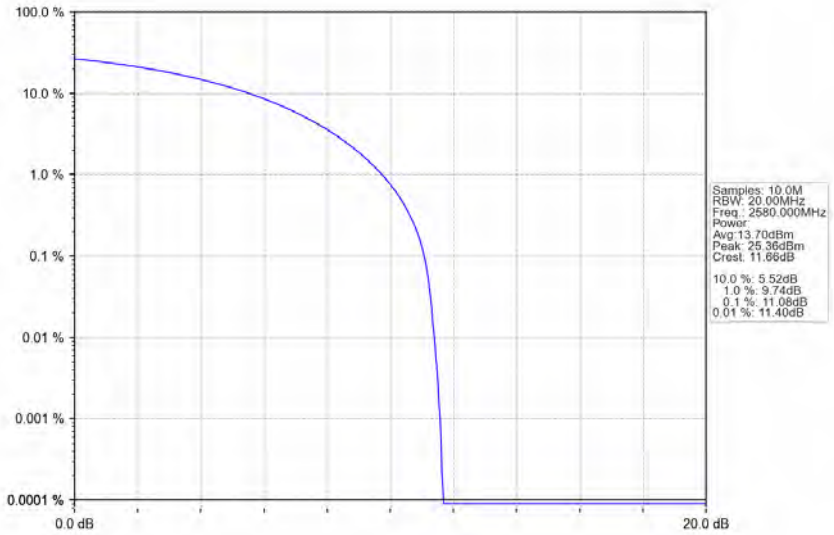
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full_Ant1



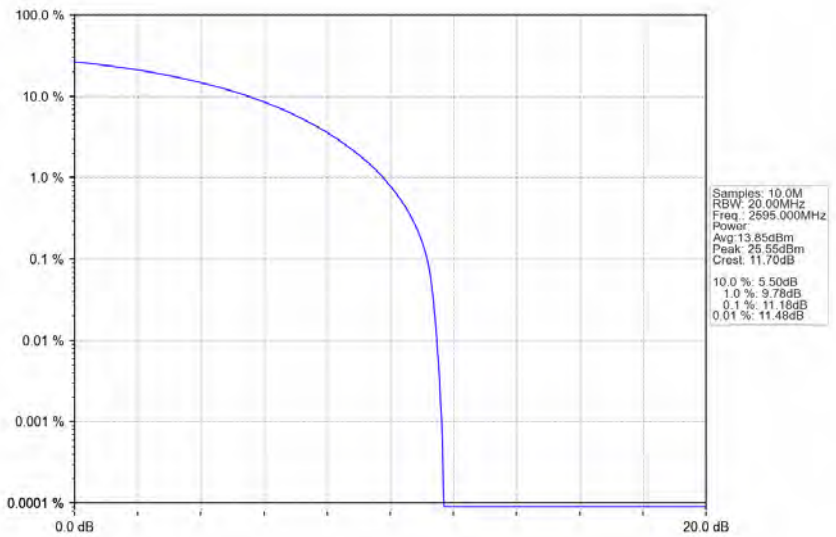
n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2610MHz_Outer_Full_Ant1



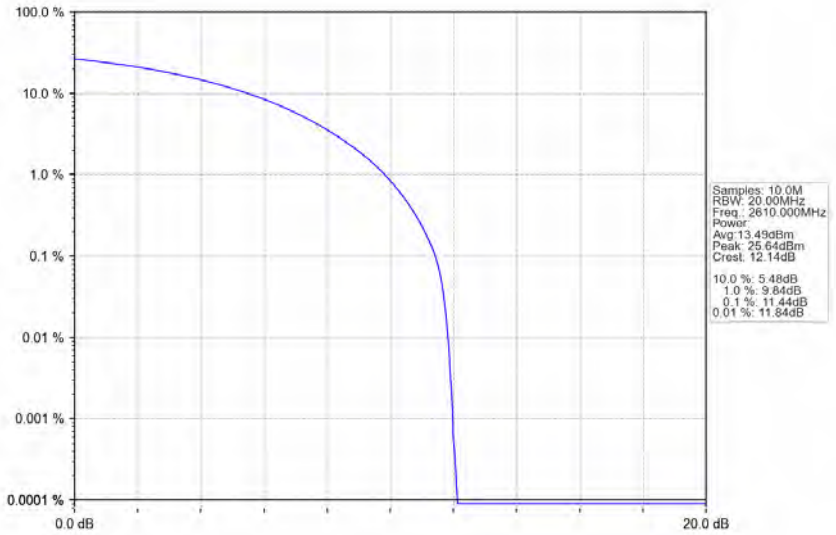
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2580MHz_Outer_Full_Ant1



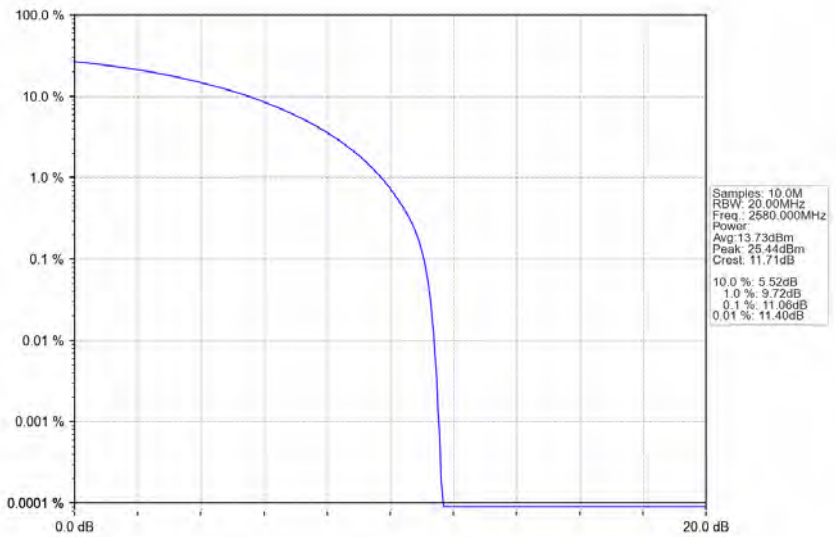
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2595MHz_Outer_Full_Ant1



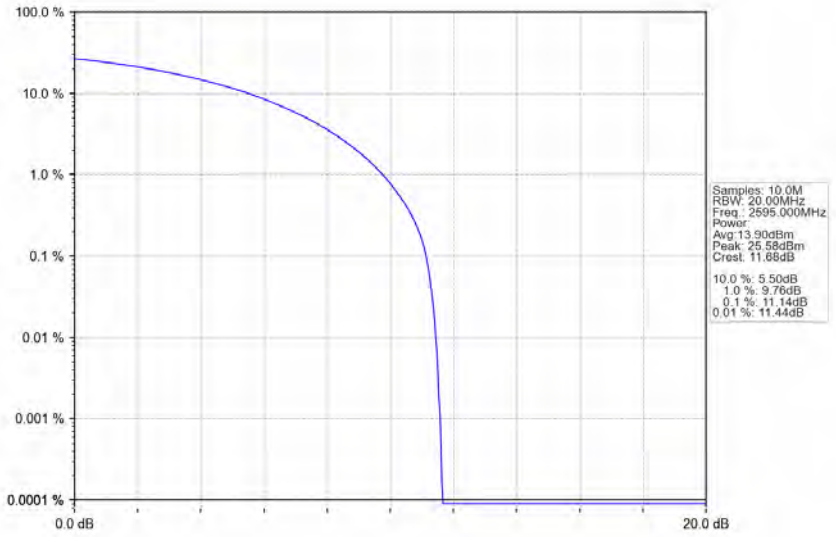
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Outer_Full_Ant1



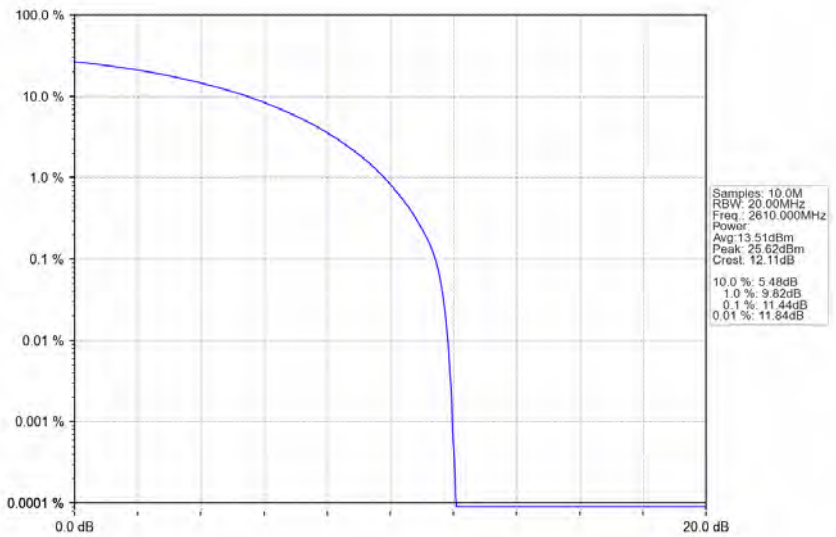
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2580MHz_Outer_Full_Ant1



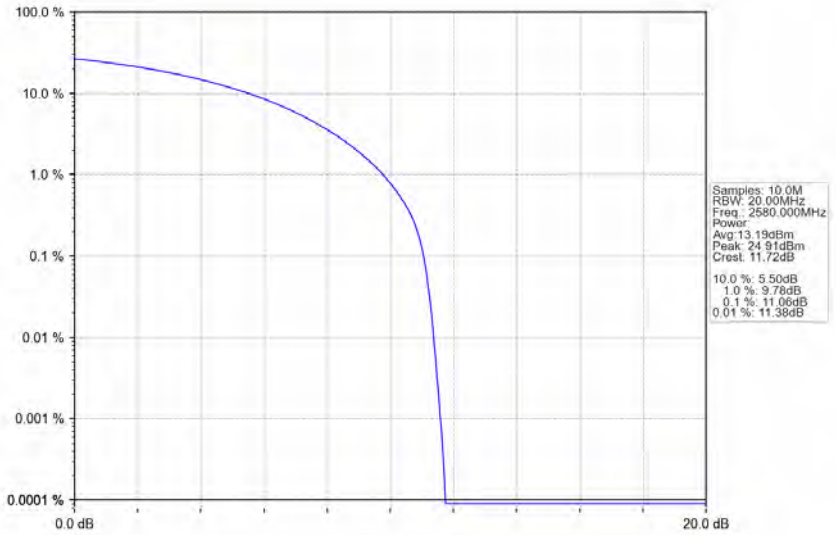
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full_Ant1



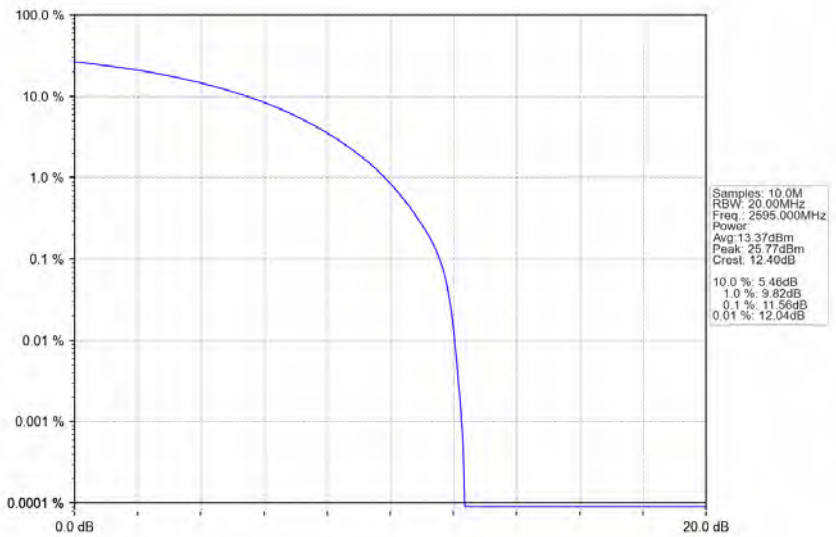
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2610MHz_Outer_Full_Ant1



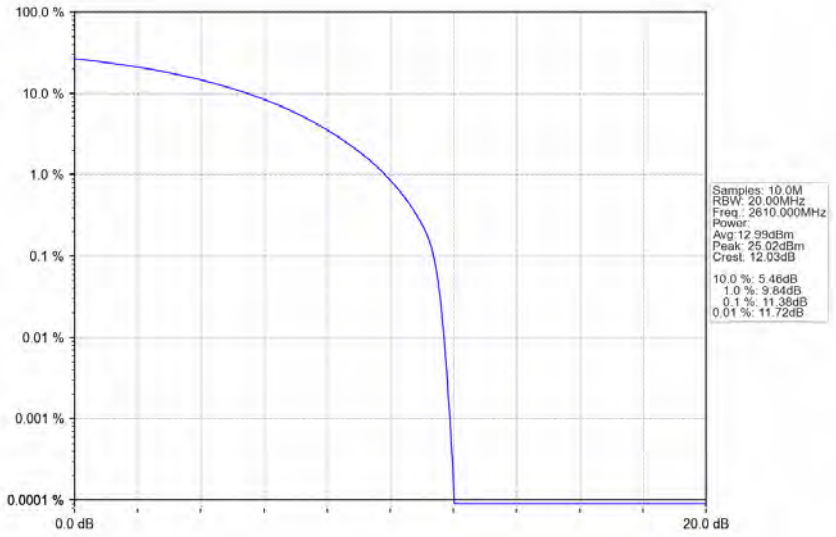
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2580MHz_Outer_Full_Ant1



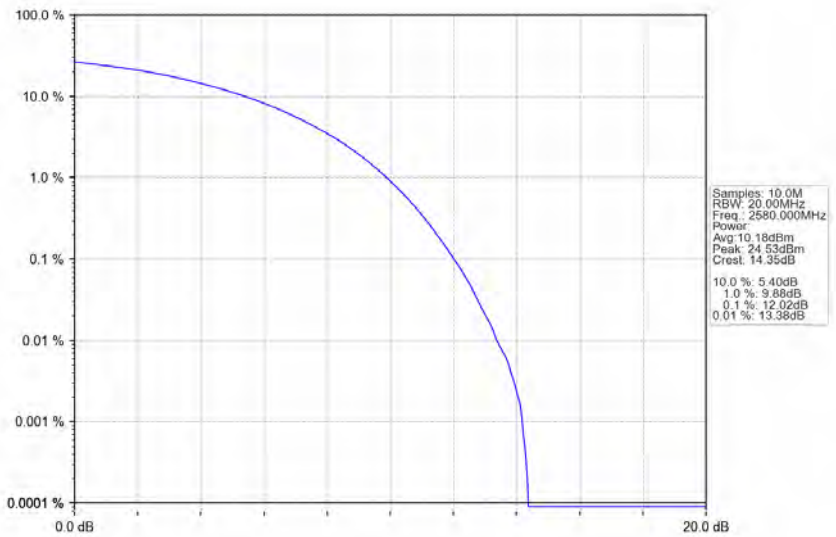
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full_Ant1



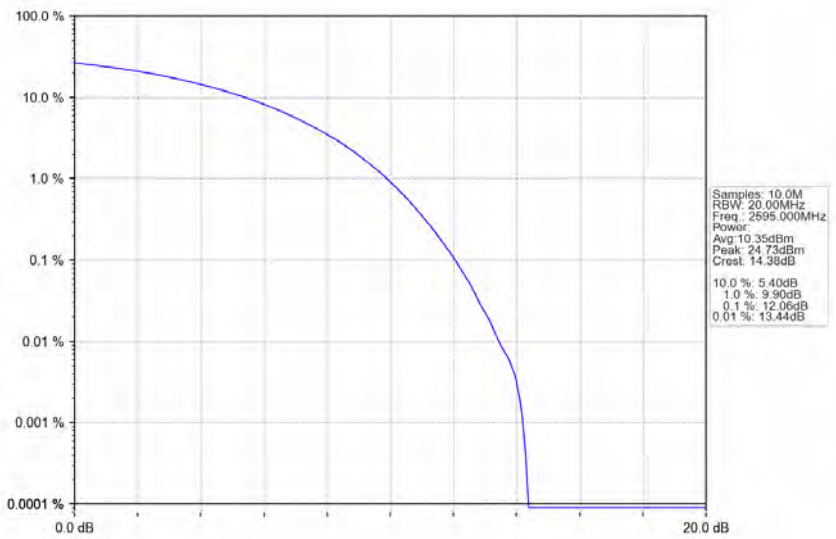
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2610MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2580MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full_Ant1



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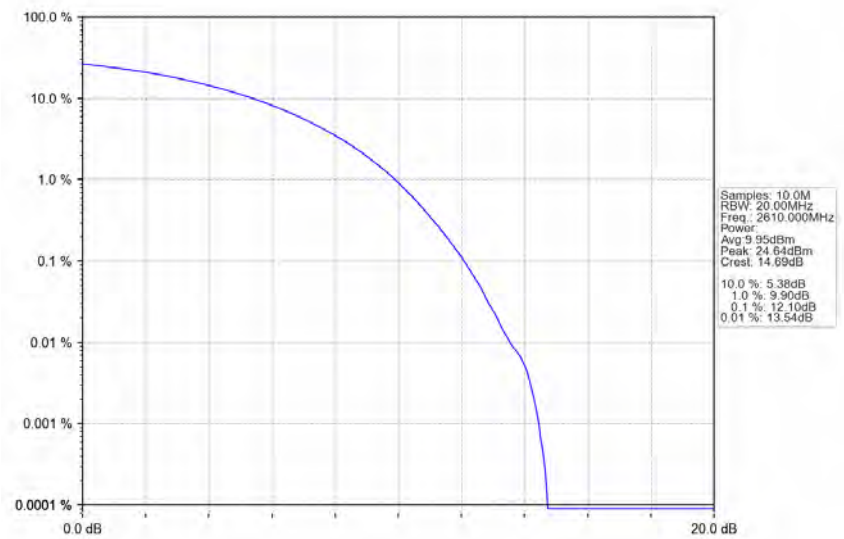

4.2.2 30k_SISO_30MHz_NTNV

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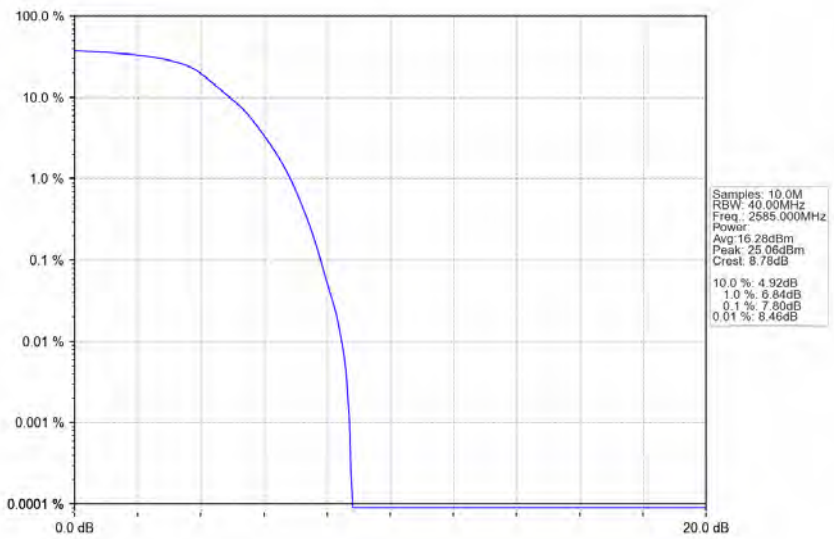

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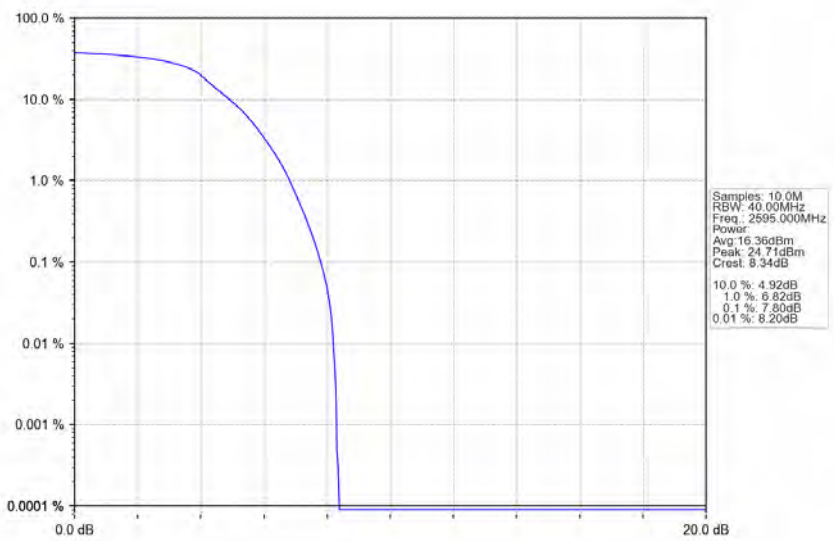

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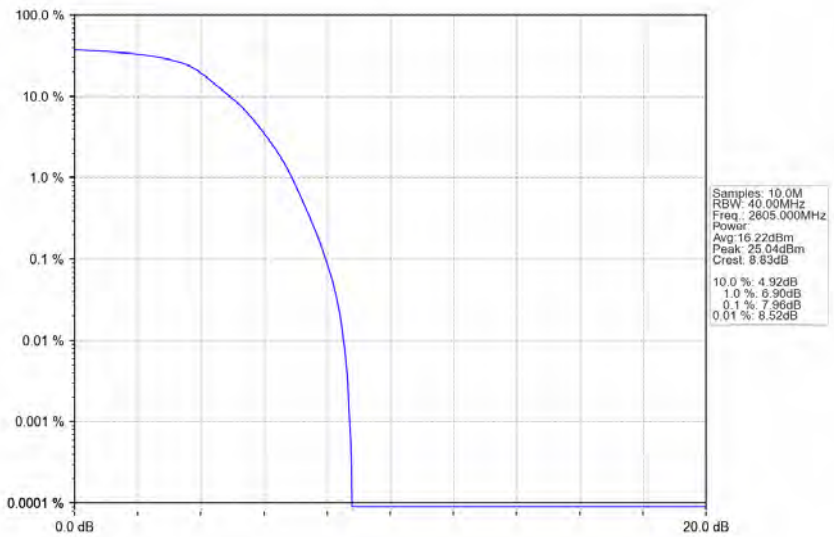

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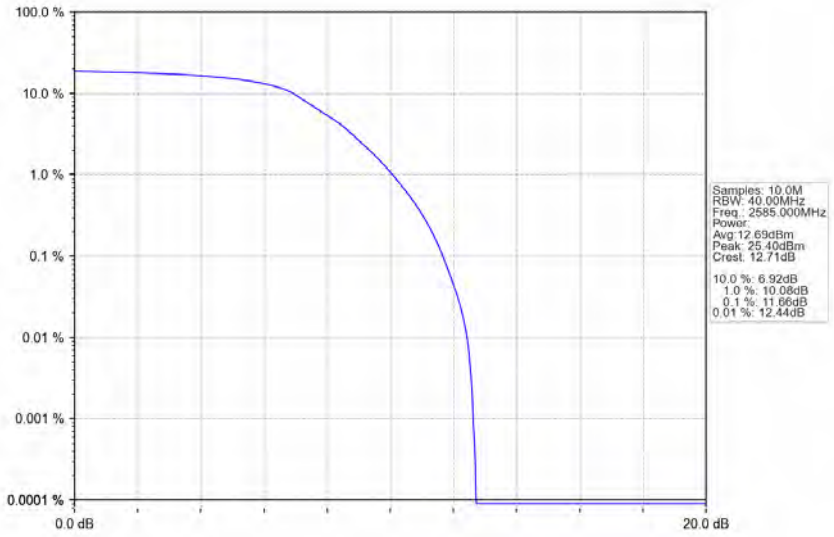
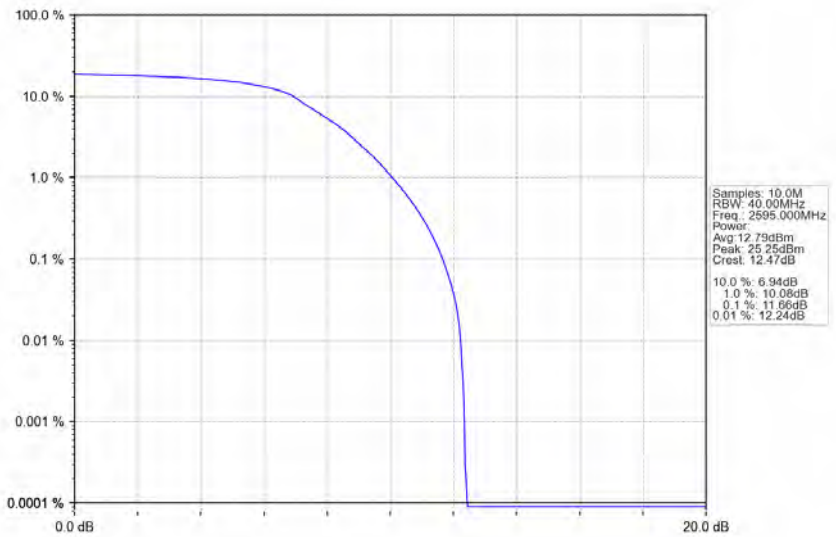
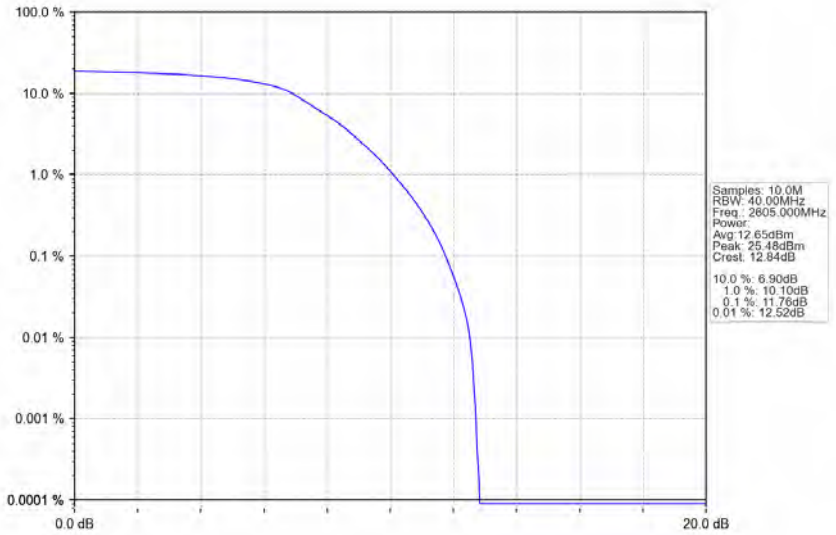


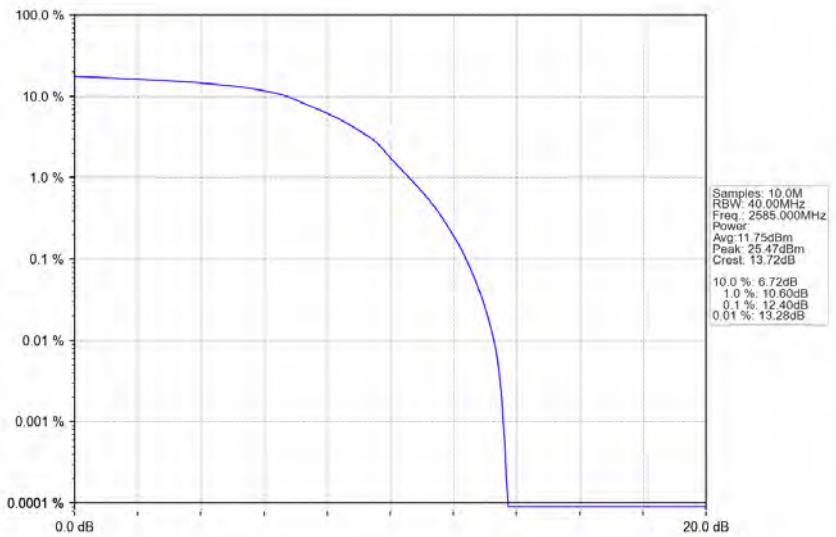
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full_Ant1



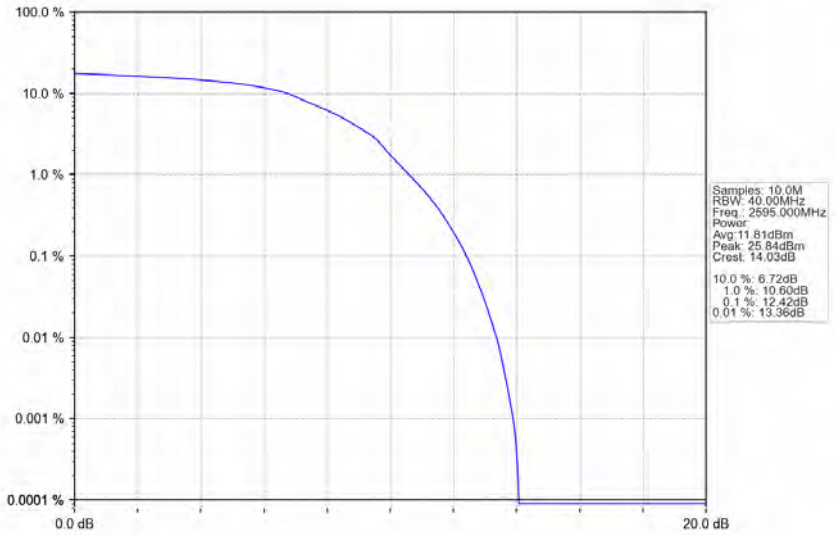
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Outer_Full_Ant1



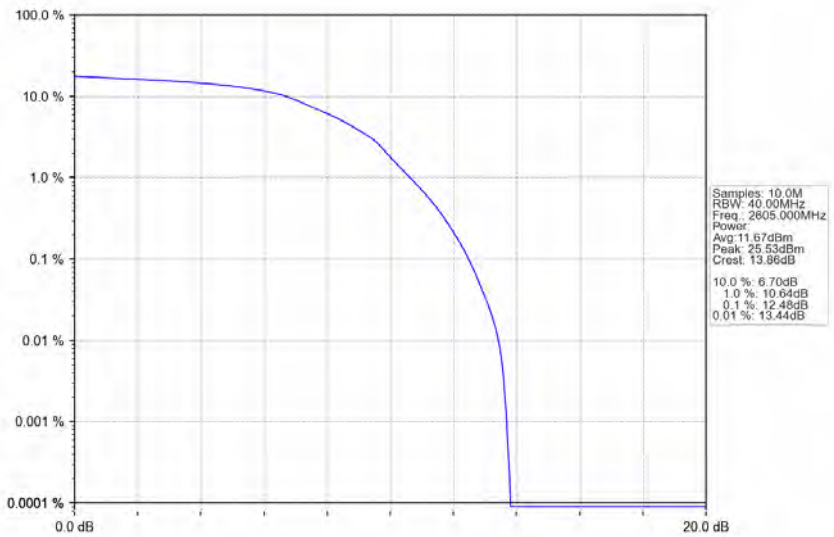
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2585MHz_Outer_Full_Ant1



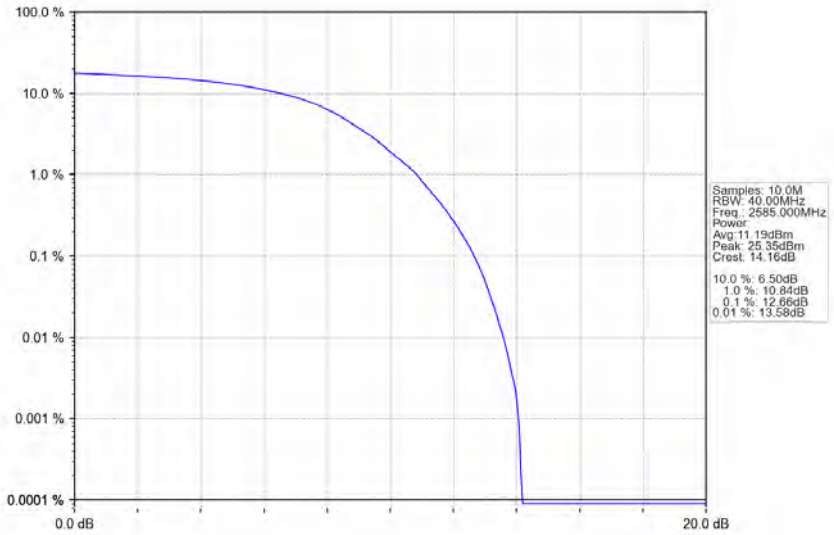
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full_Ant1



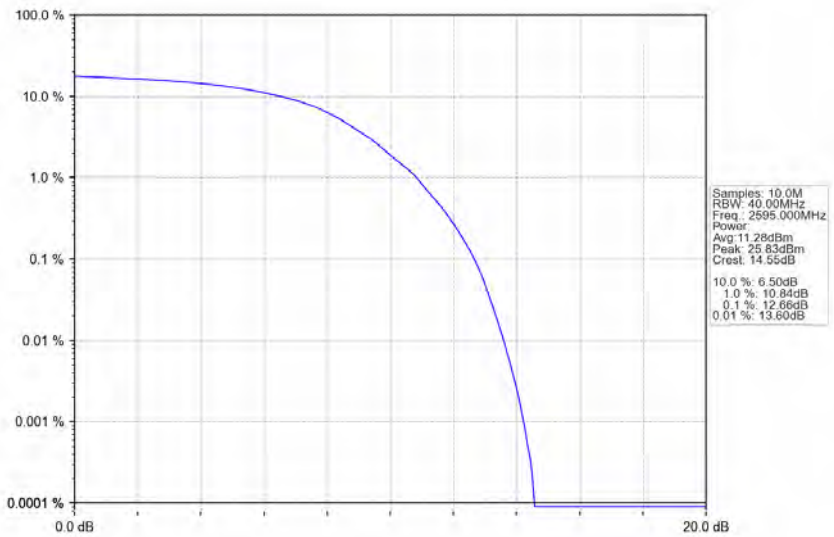
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2605MHz_Outer_Full_Ant1



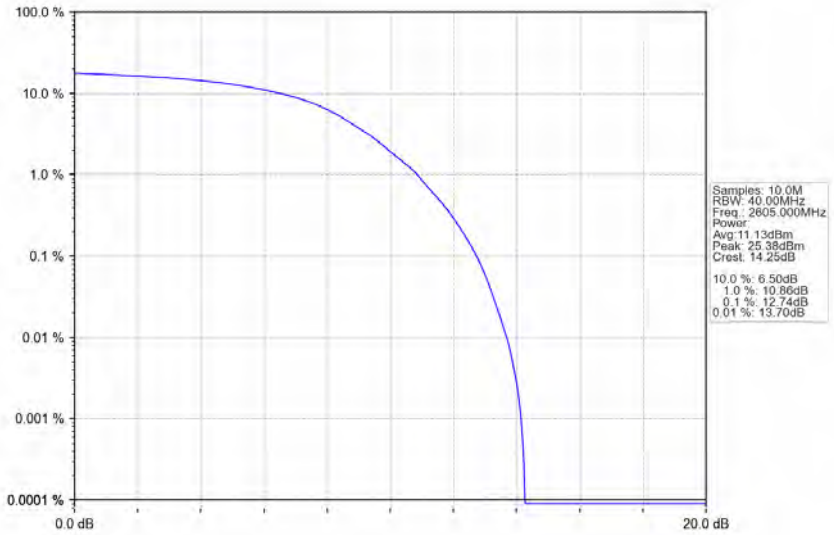
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2585MHz_Outer_Full_Ant1



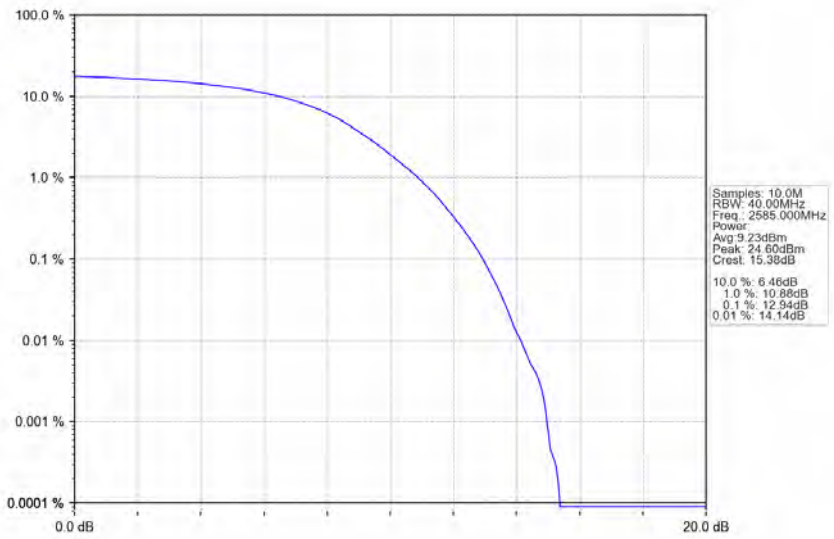
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full_Ant1



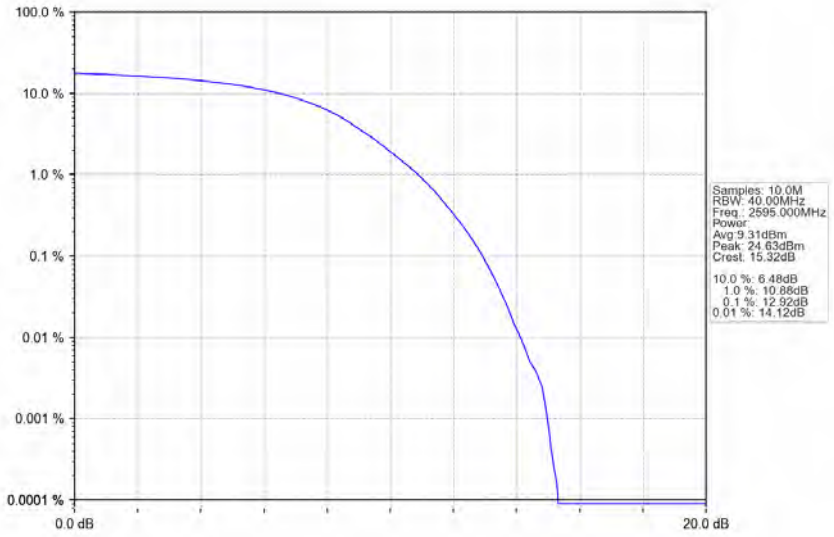
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2605MHz_Outer_Full_Ant1



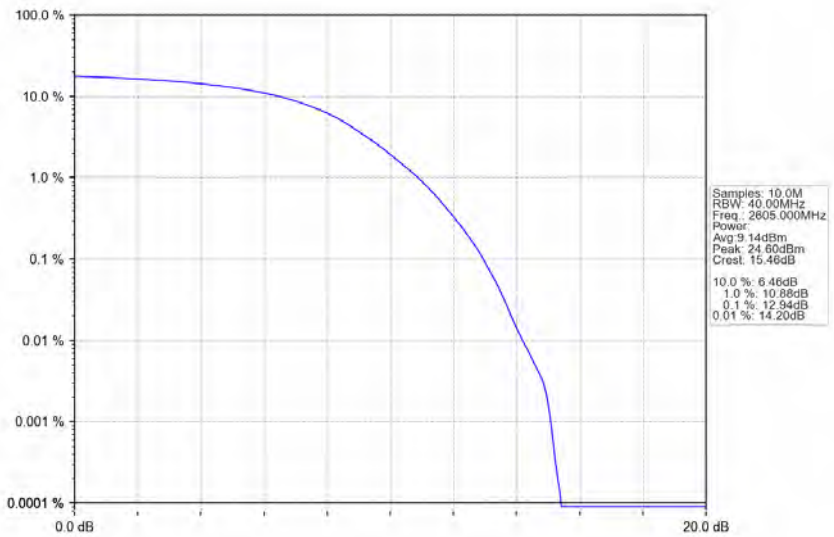
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2585MHz_Outer_Full_Ant1



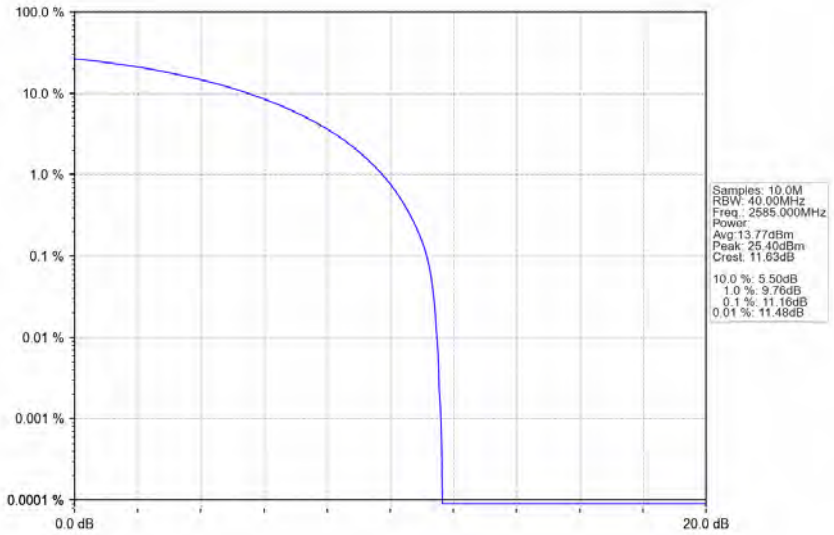
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full_Ant1



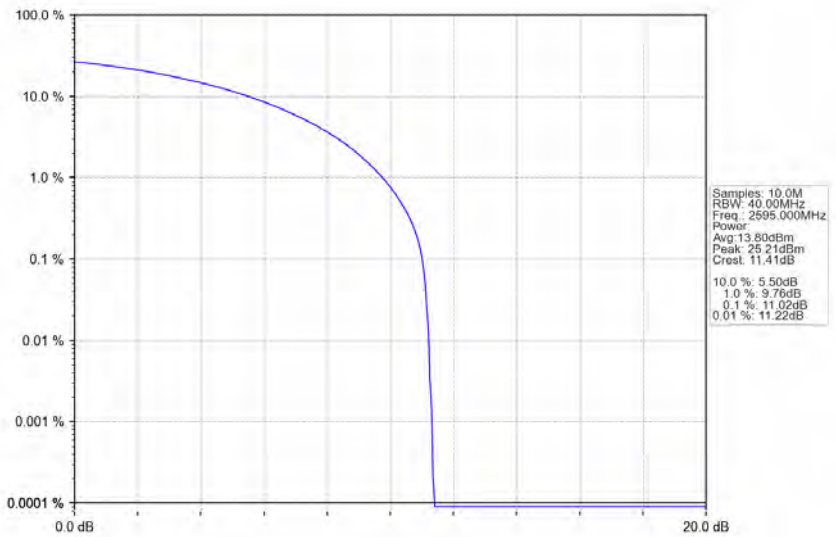
n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2605MHz_Outer_Full_Ant1



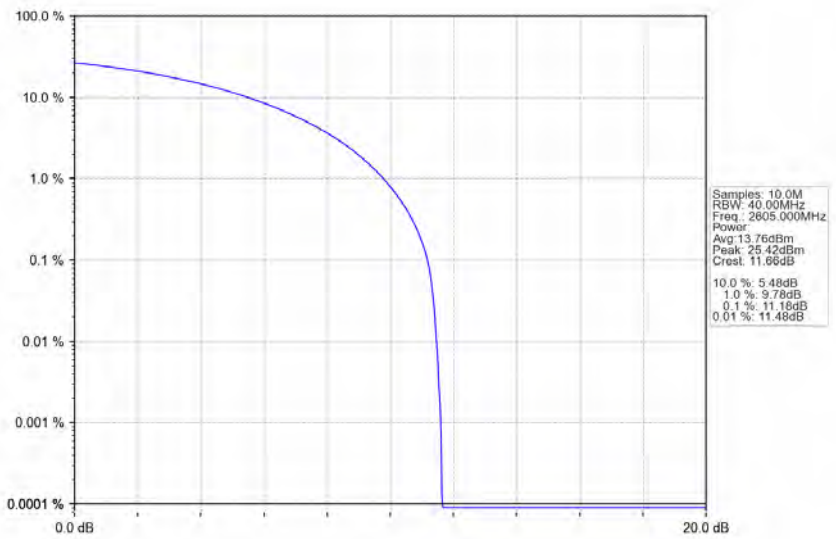
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2585MHz_Outer_Full_Ant1



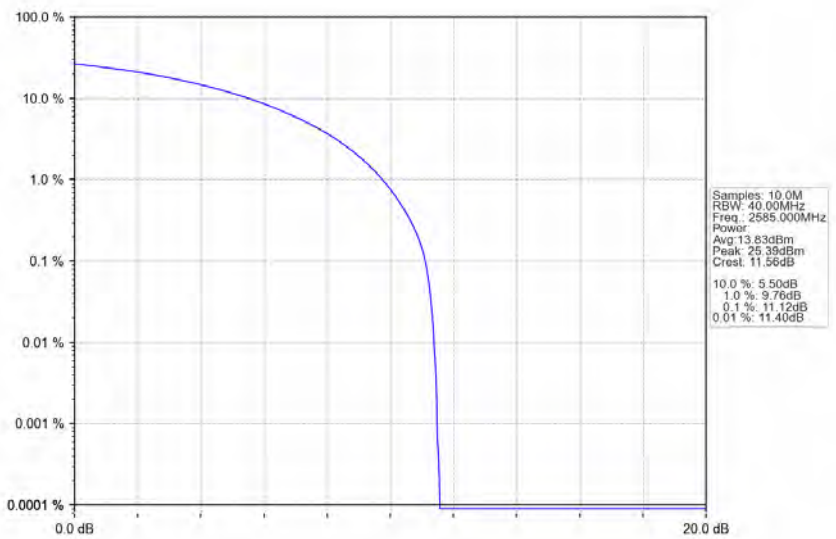
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2595MHz_Outer_Full_Ant1



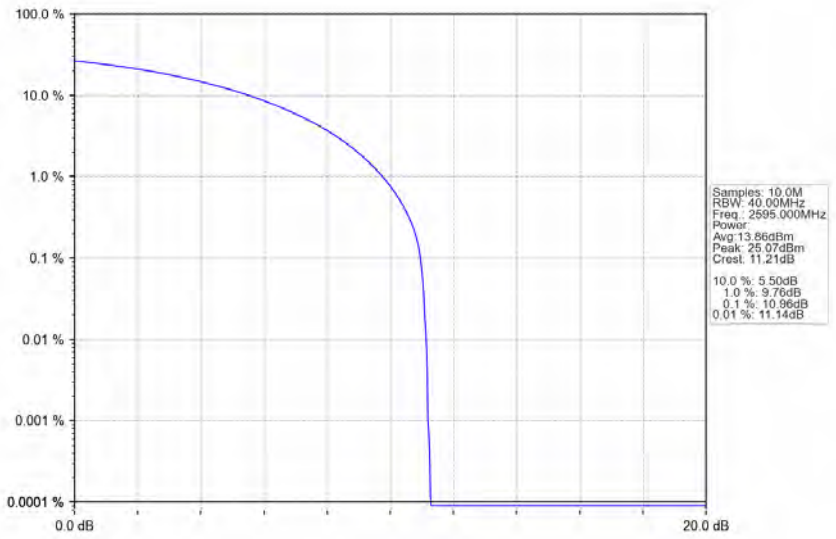
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Outer_Full_Ant1



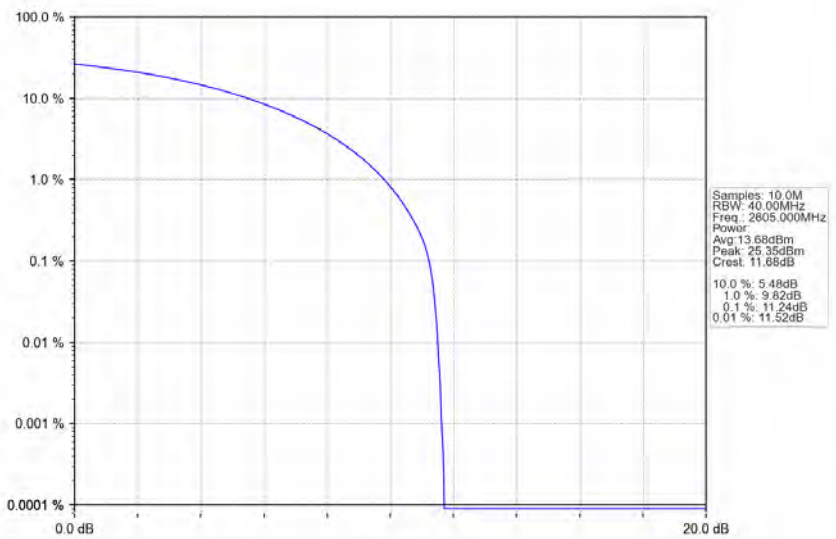
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2585MHz_Outer_Full_Ant1



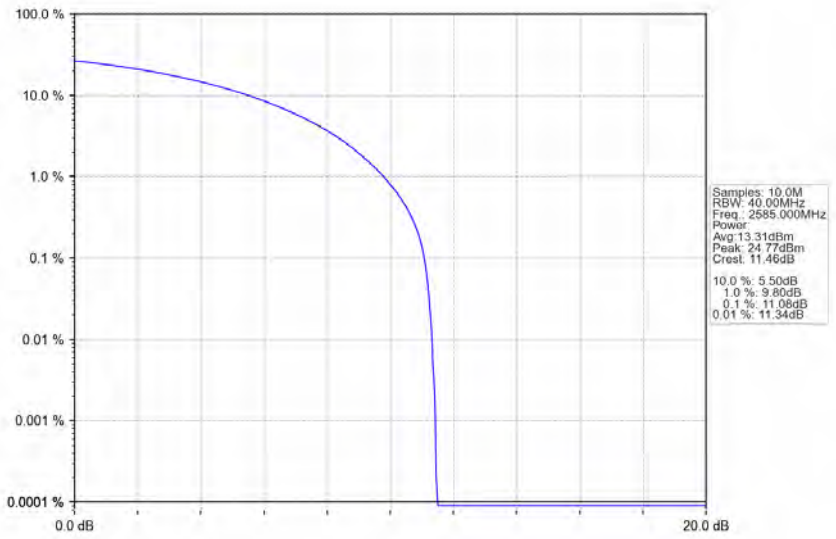
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full_Ant1



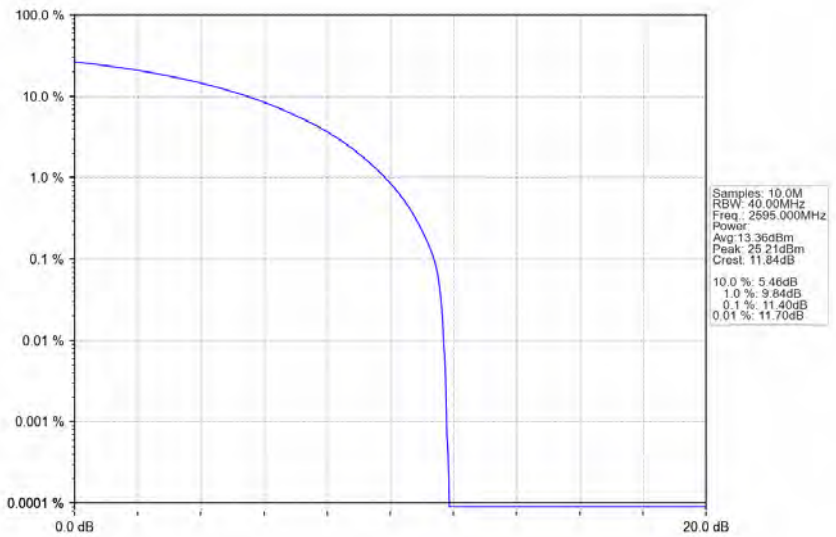
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2605MHz_Outer_Full_Ant1



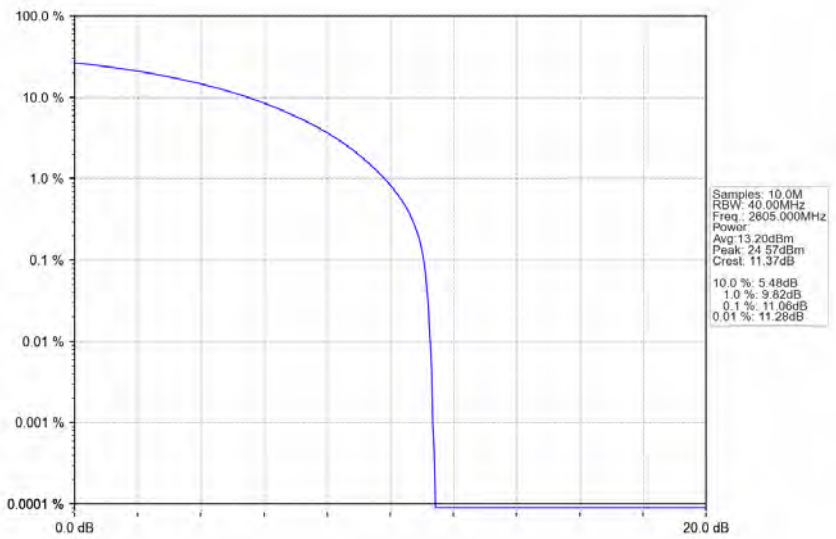
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2585MHz_Outer_Full_Ant1



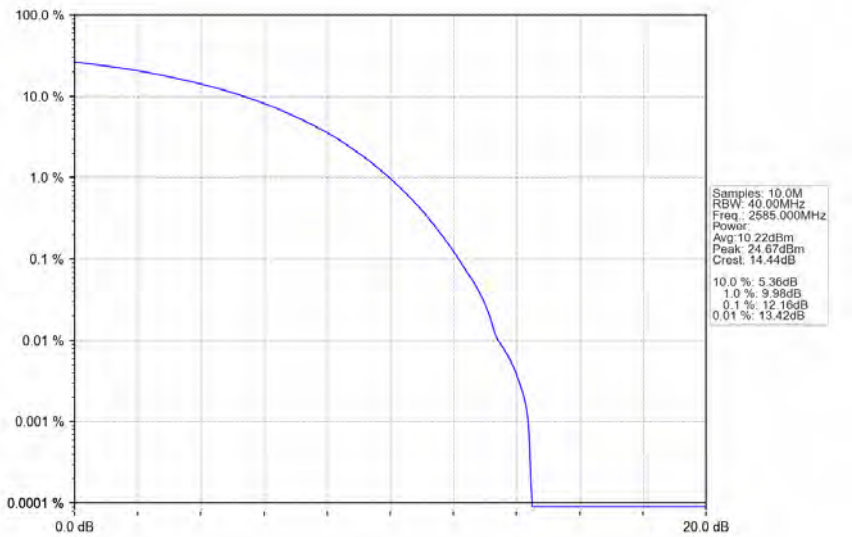
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full_Ant1



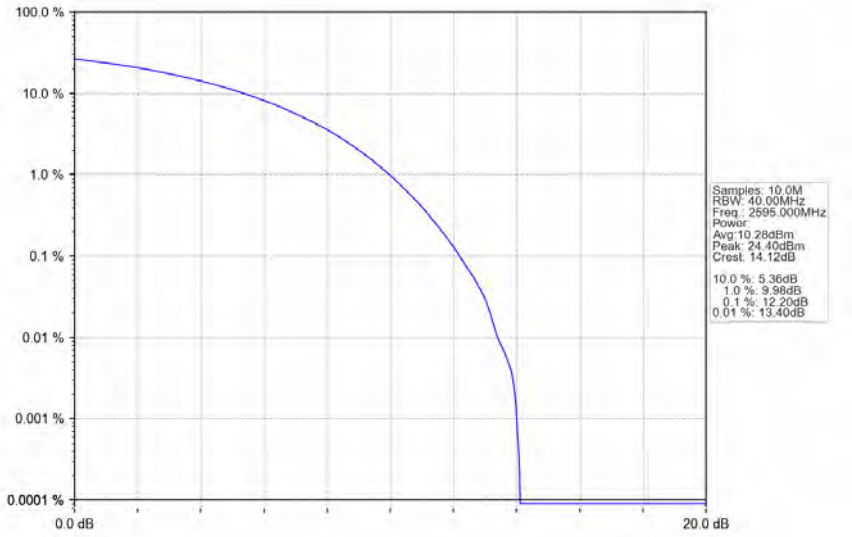
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2605MHz_Outer_Full_Ant1



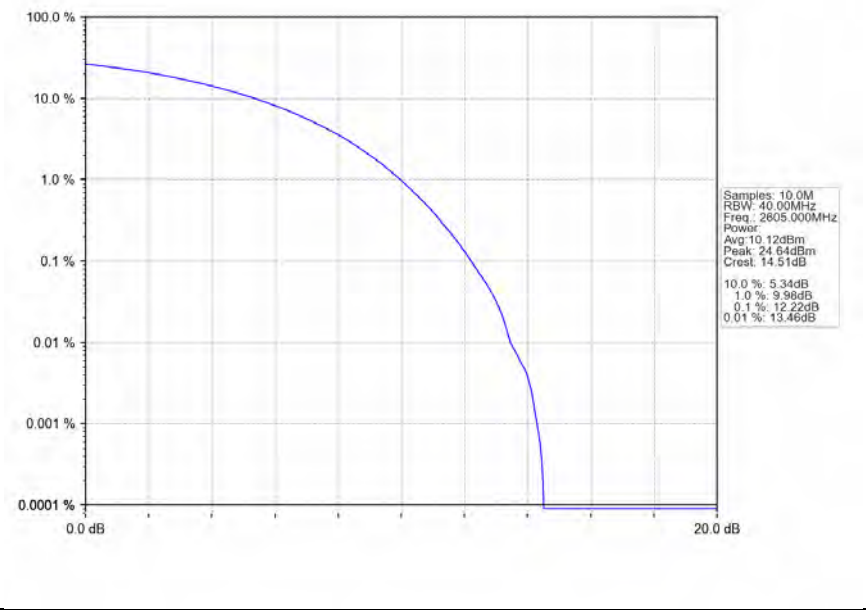
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2585MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2605MHz_Outer_Full_Ant1



4.2.3 30k_SISO_40MHz_NTNV

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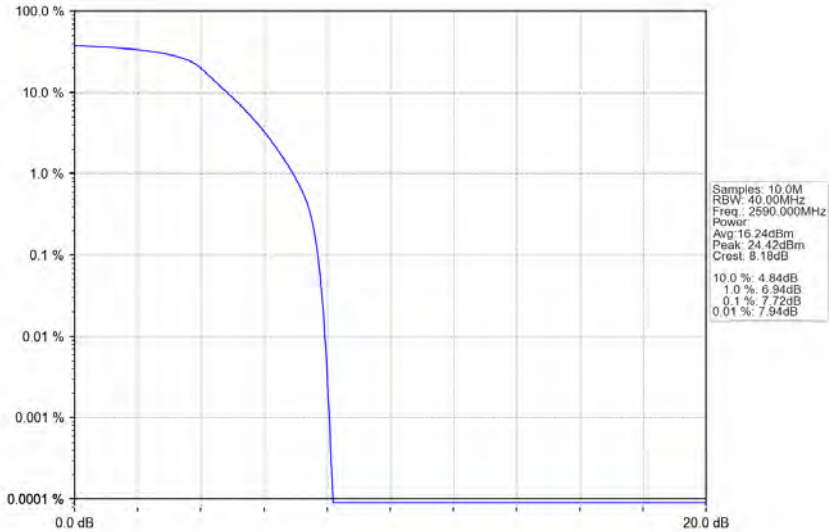

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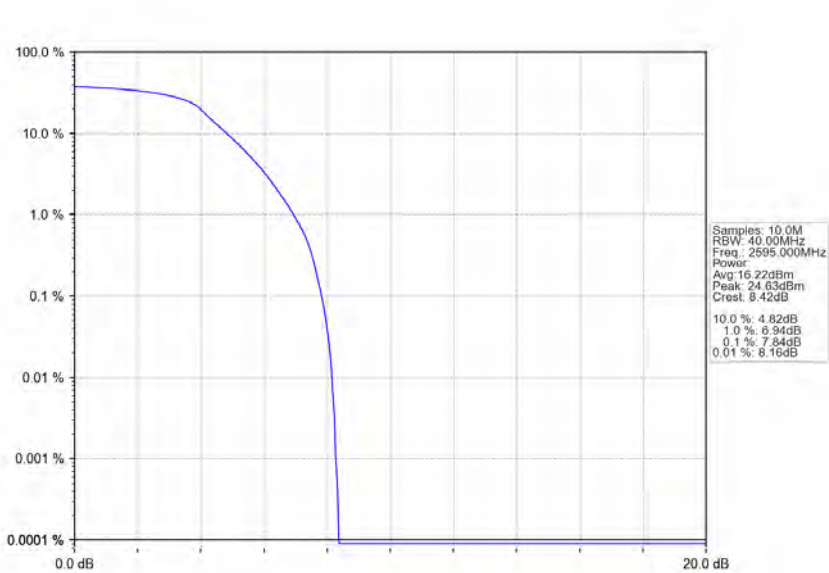
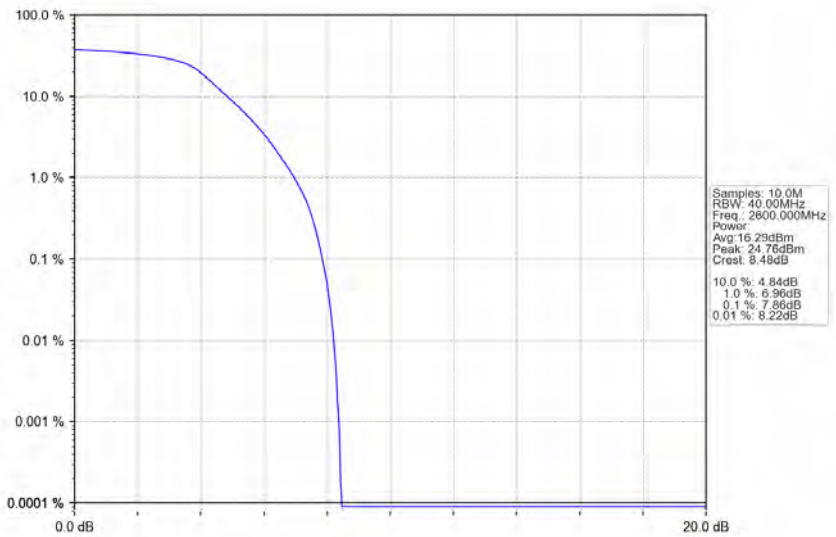
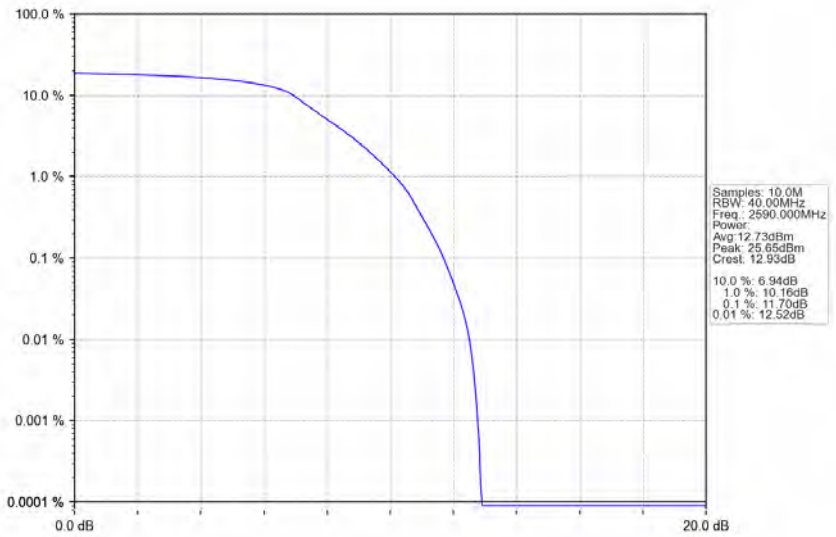


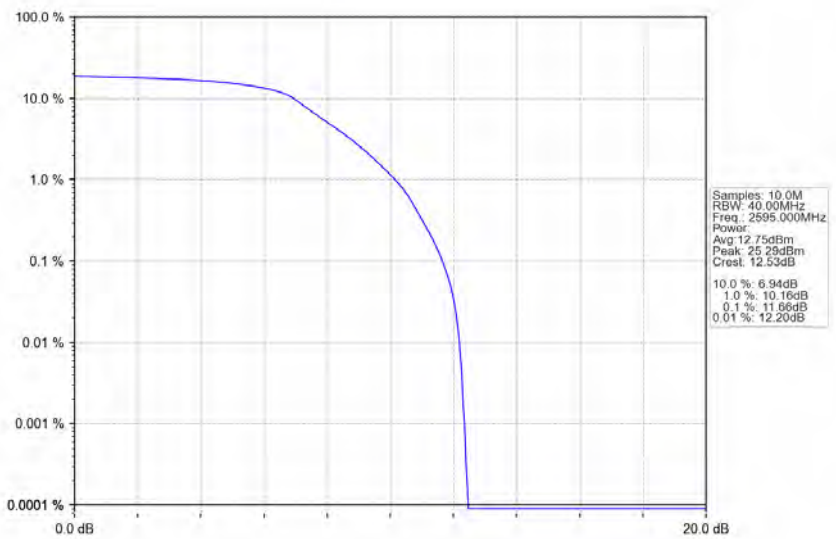
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2600MHz_Outer_Full_Ant1



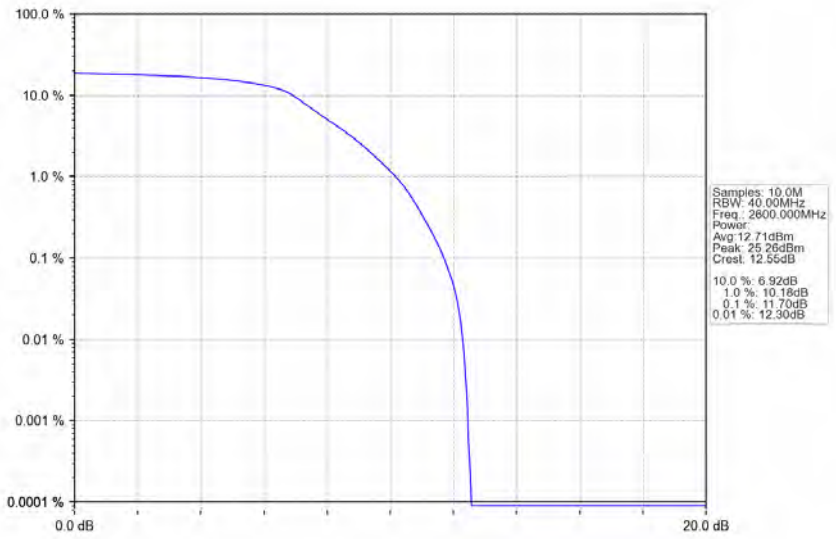
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full_Ant1



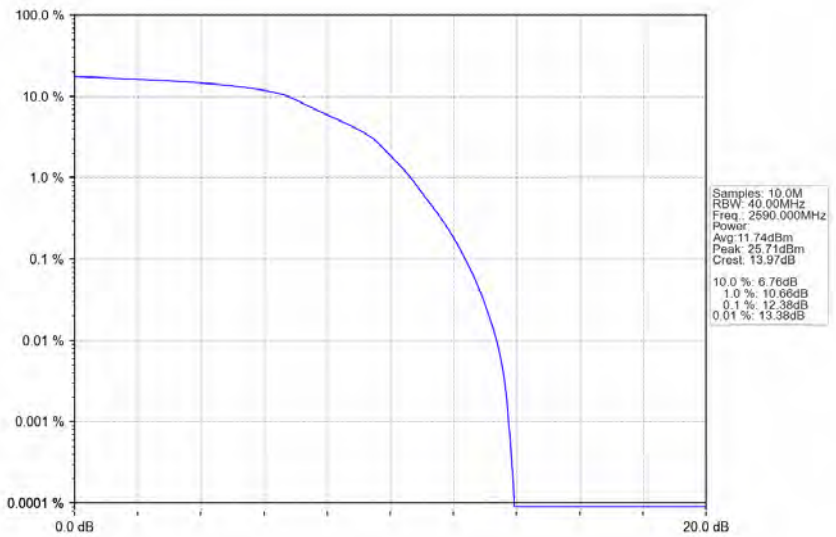
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full_Ant1



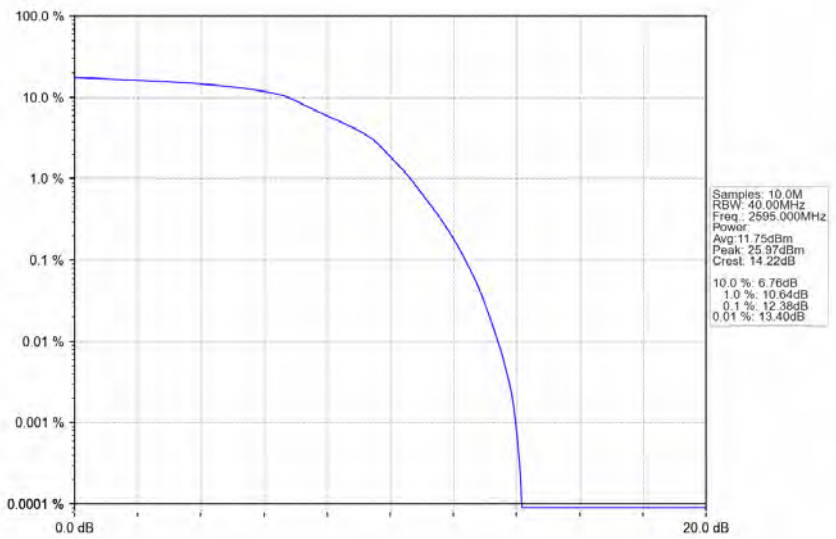
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Outer_Full_Ant1



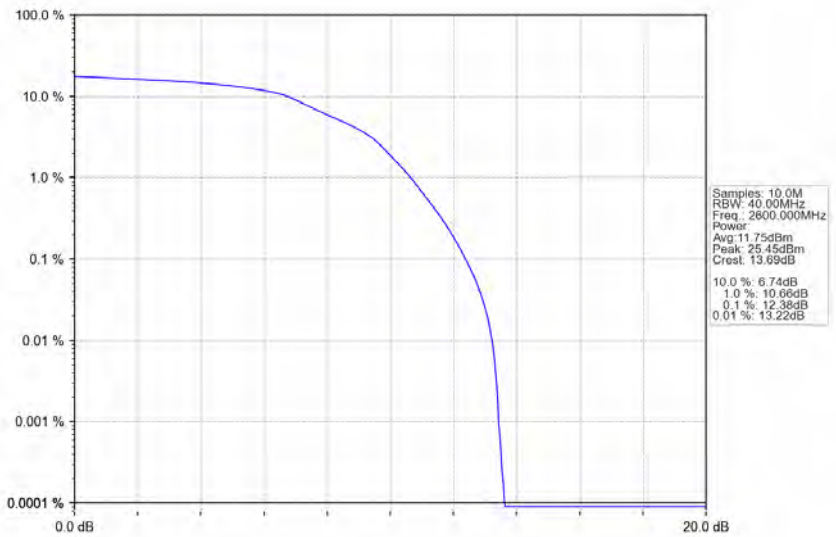
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2590MHz_Outer_Full_Ant1



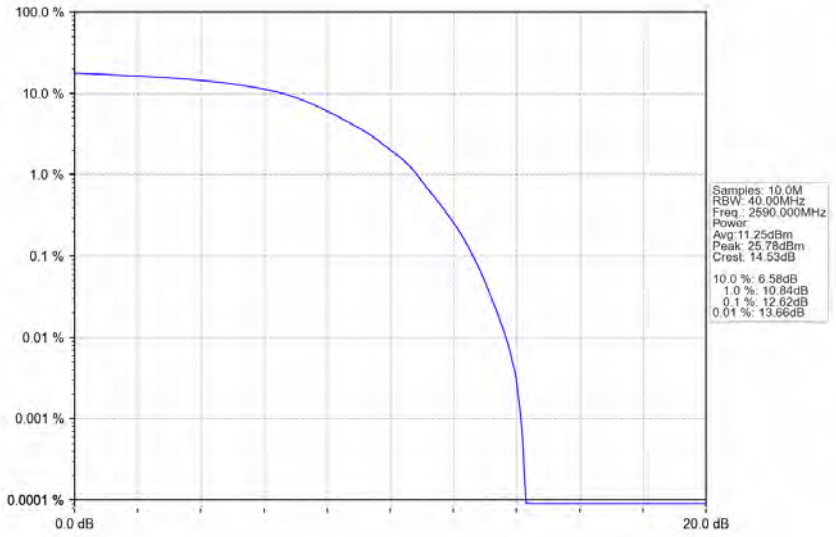
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full_Ant1



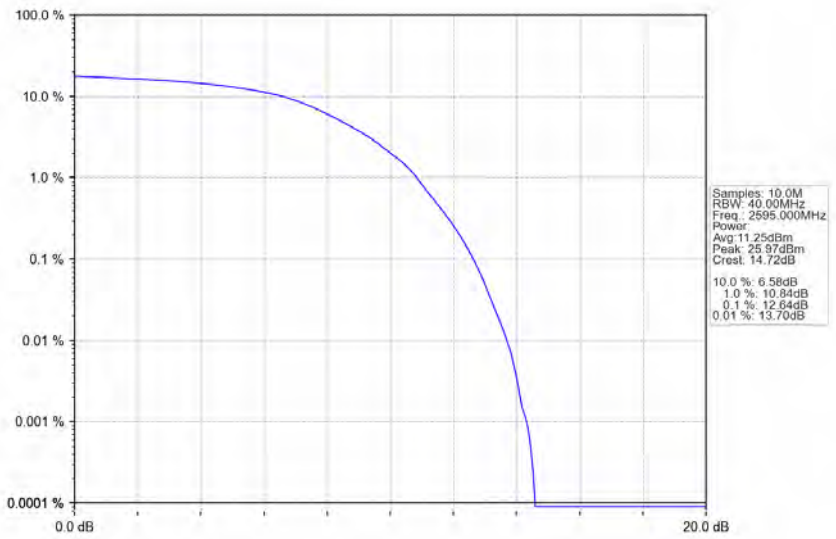
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2600MHz_Outer_Full_Ant1



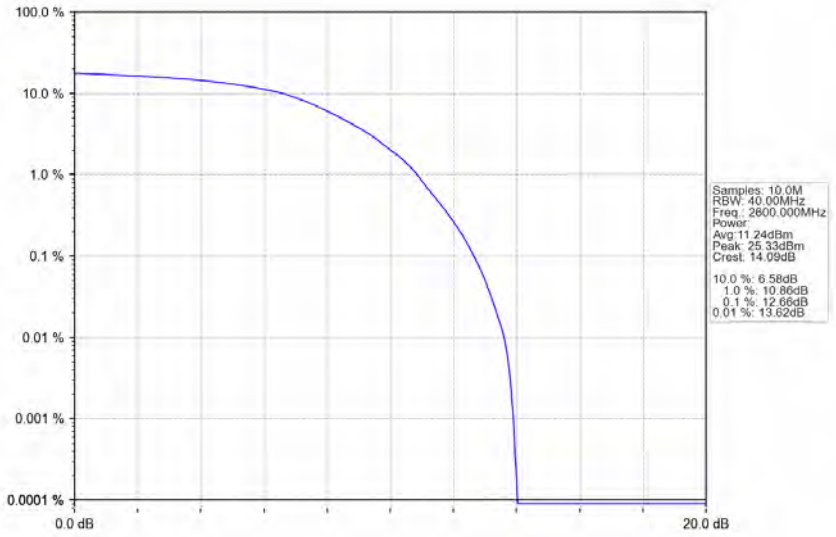
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2590MHz_Outer_Full_Ant1



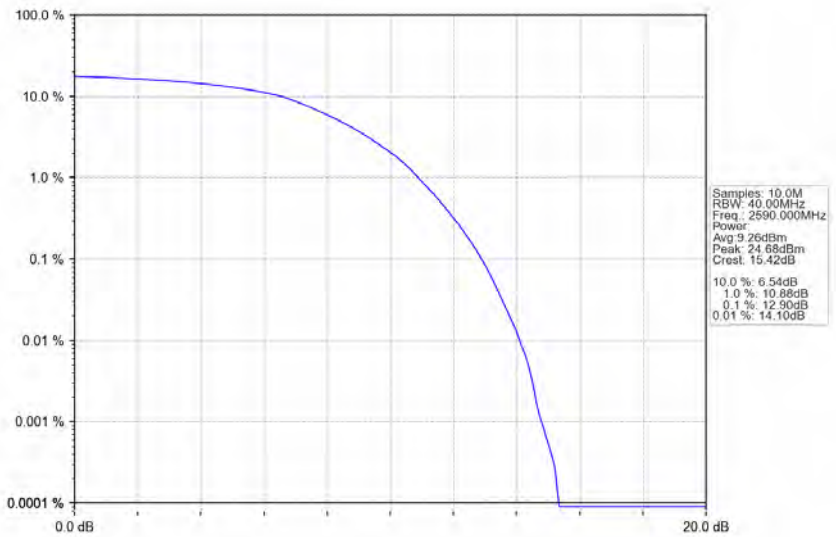
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full_Ant1



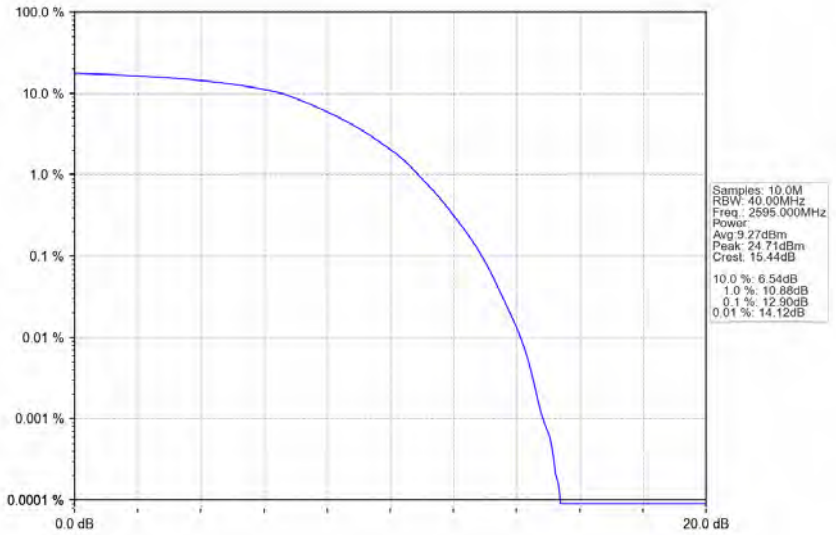
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2600MHz_Outer_Full_Ant1



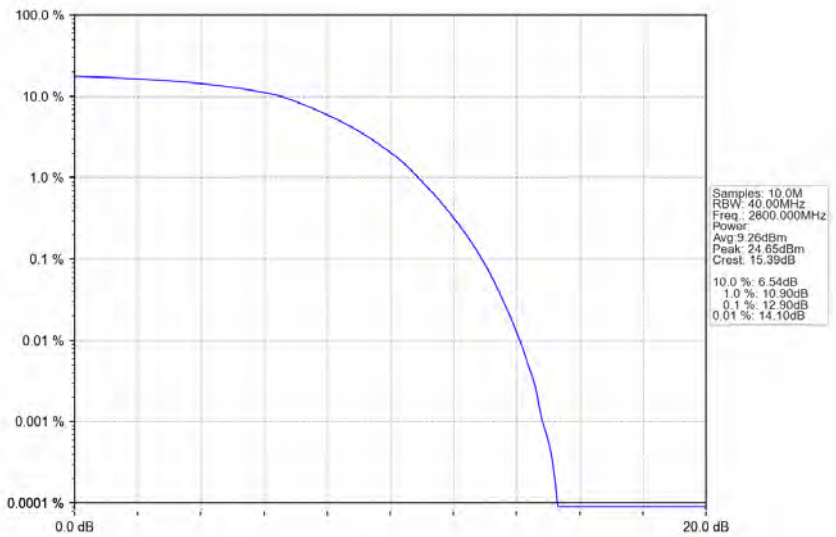
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2590MHz_Outer_Full_Ant1



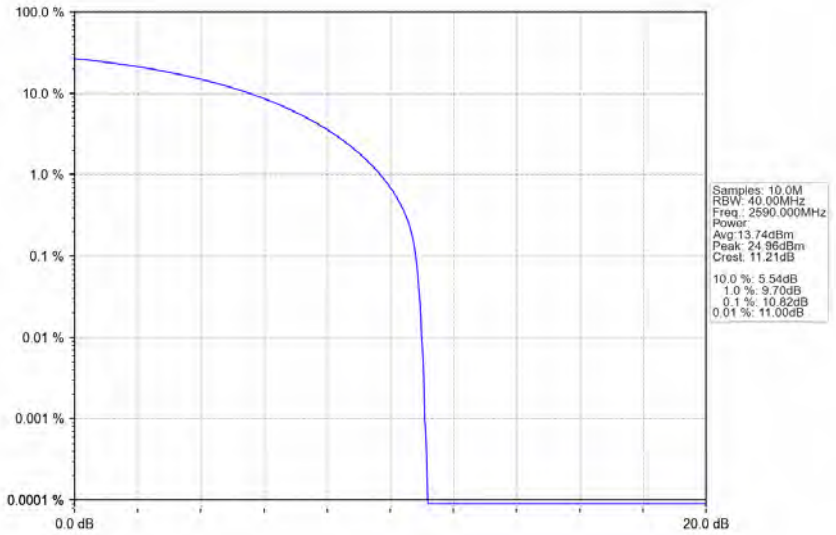
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full_Ant1



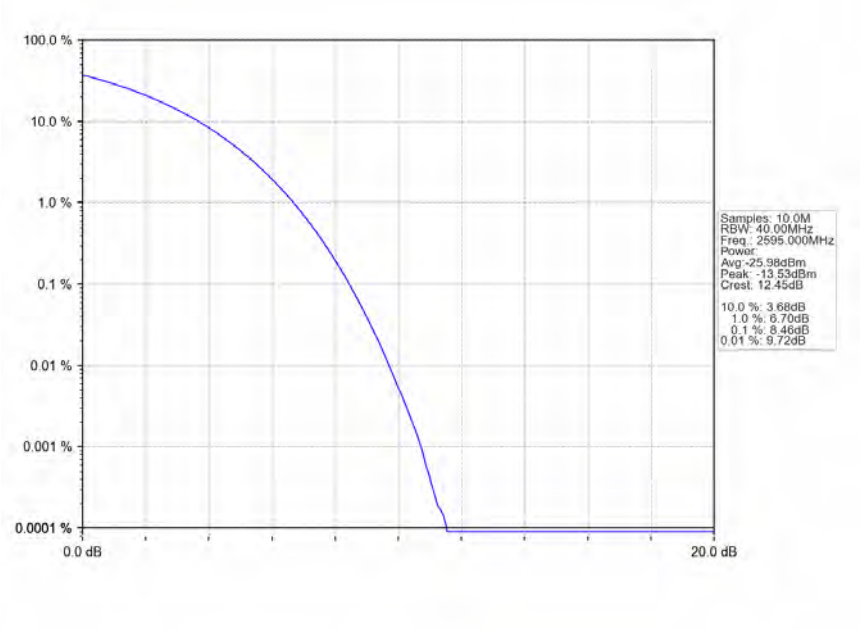
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2600MHz_Outer_Full_Ant1



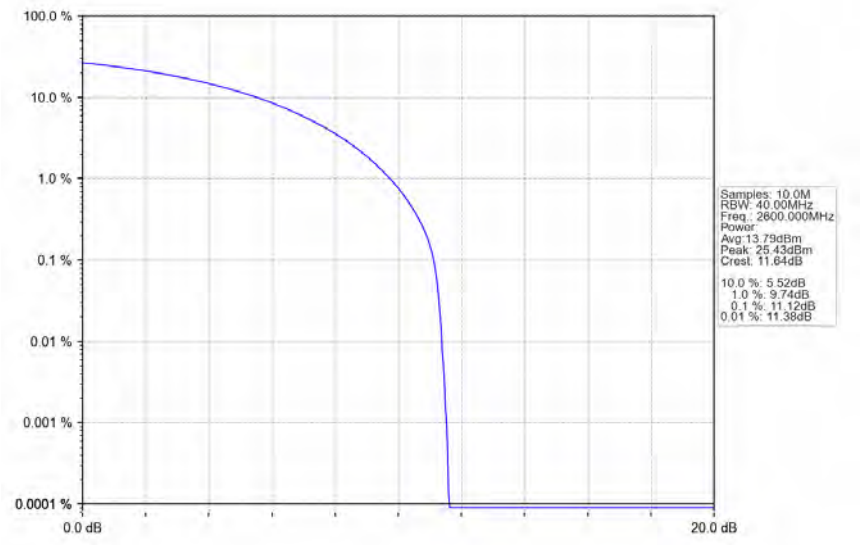
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2590MHz_Outer_Full_Ant1



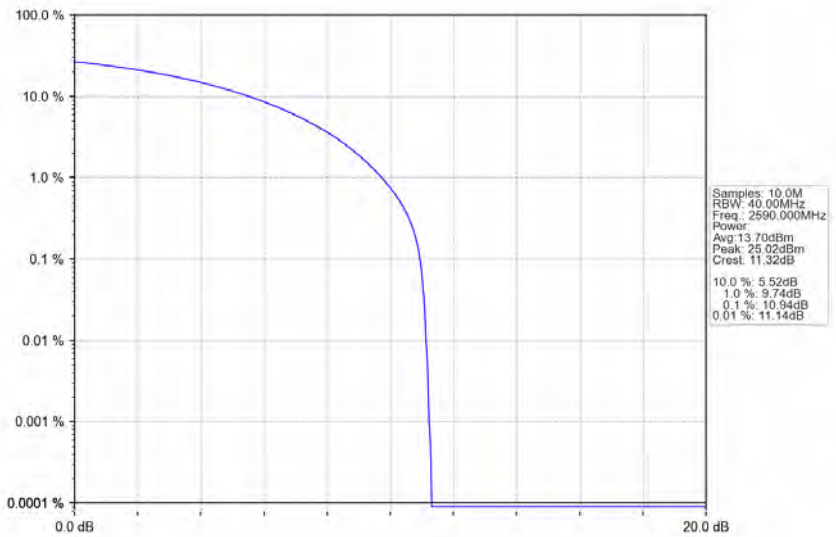
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2595MHz_Outer_Full_Ant1



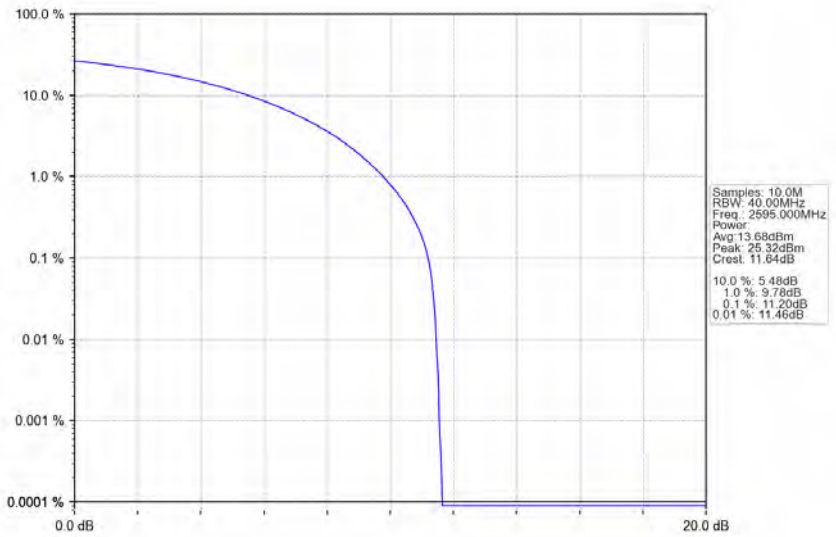
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2600MHz_Outer_Full_Ant1



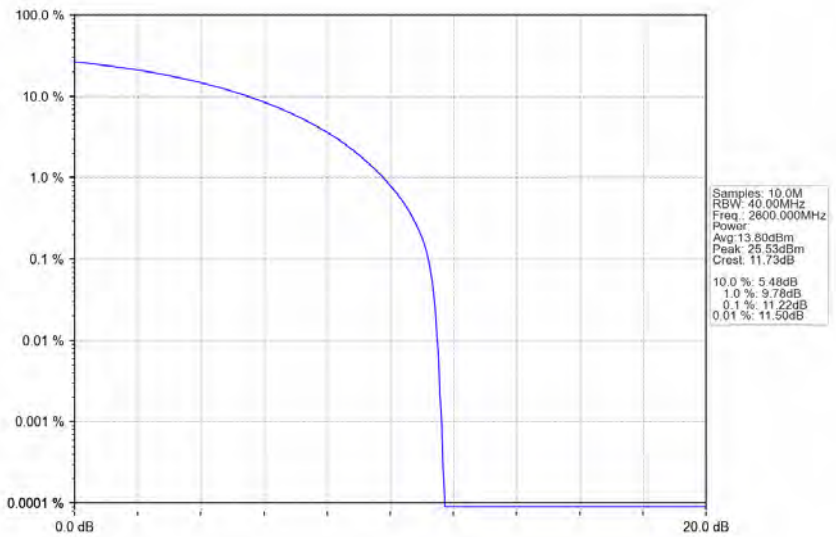
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2590MHz_Outer_Full_Ant1



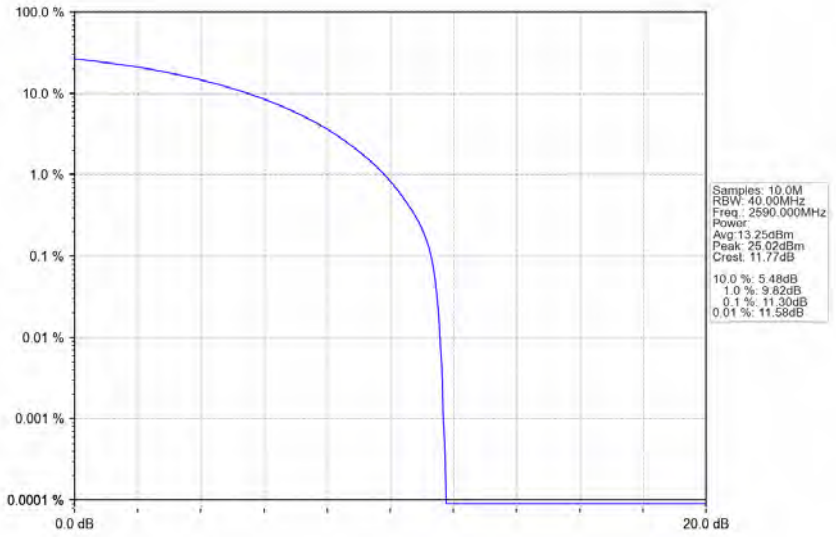
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full_Ant1



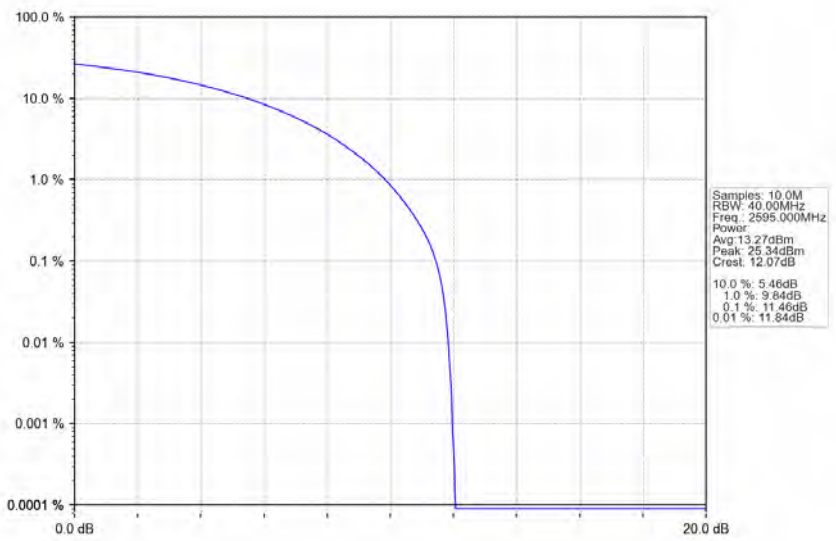
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full_Ant1



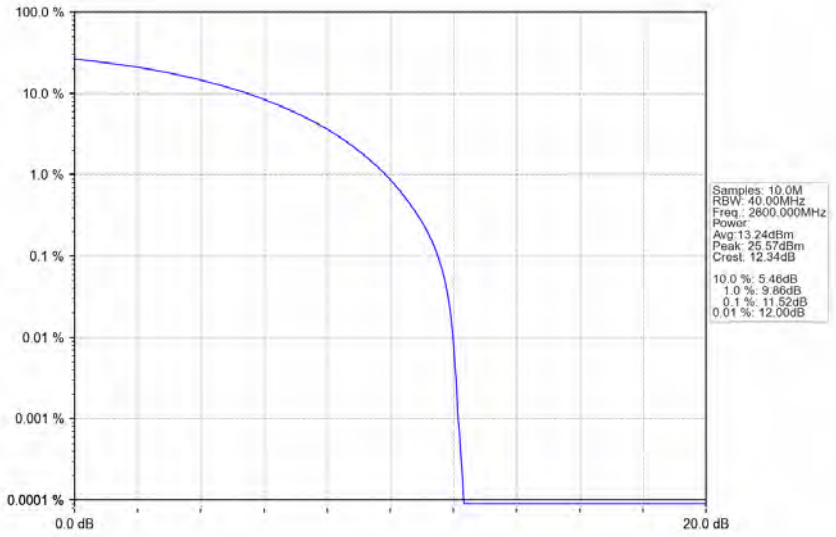
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2590MHz_Outer_Full_Ant1



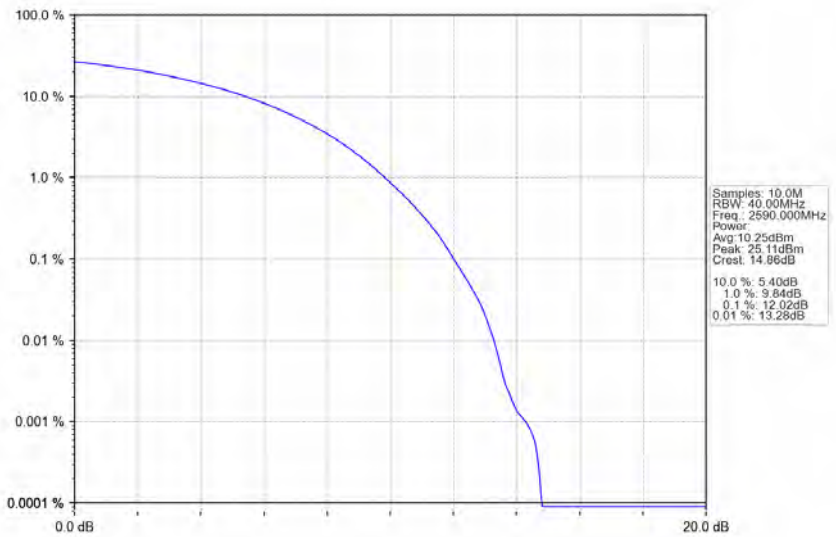
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full_Ant1



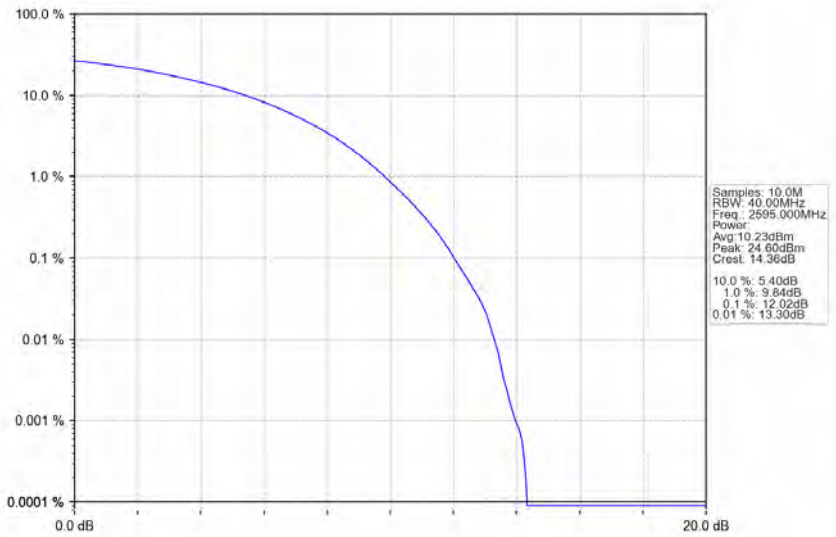
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2600MHz_Outer_Full_Ant1



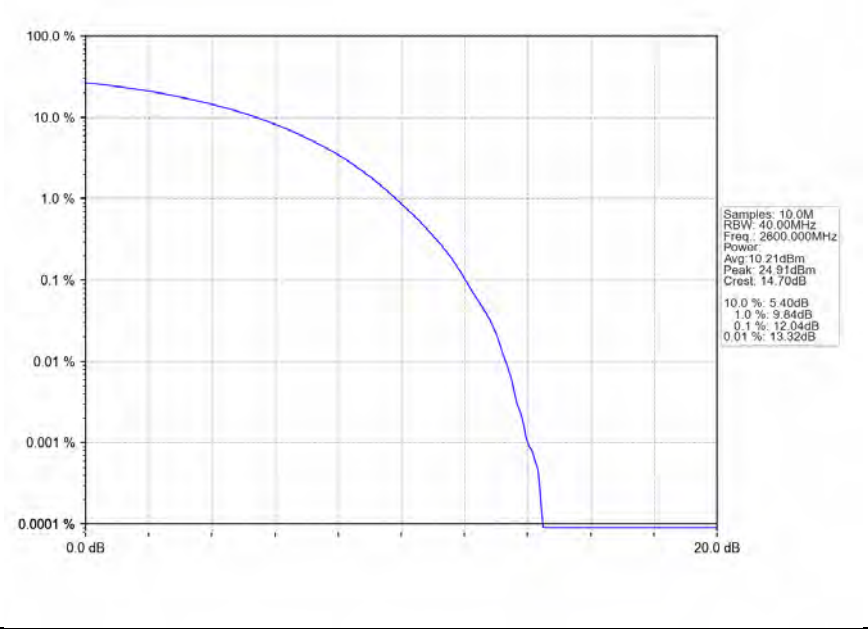
n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2590MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full_Ant1



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2600MHz_Outer_Full_Ant1



5. Spurious Emission

5.1 Test Result

5.1.1 30k_SISO_20MHz_NTNV

5G NR n38 SCS=30kHz SISO 20MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2610	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2610	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2610	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

5.1.2 30k_SISO_30MHz_NTNV

5G NR n38 SCS=30kHz SISO 30MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2605	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2585	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2605	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	2585	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass

	2605	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass

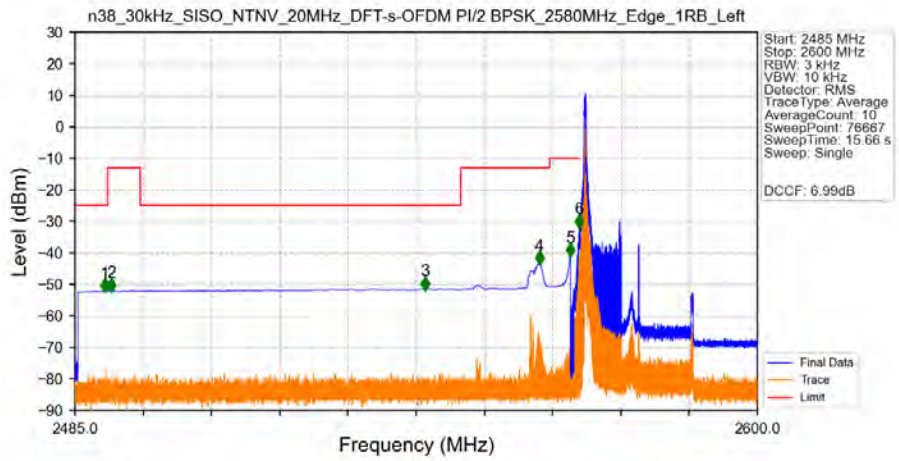
5.1.3 30k_SISO_40MHz_NTNV

5G NR n38 SCS=30kHz SISO 40MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2600	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2590	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2600	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	2590	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	Edge_1RB_Left	Refer To Test Graph				Pass
	2600	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

5.2 Test Graph

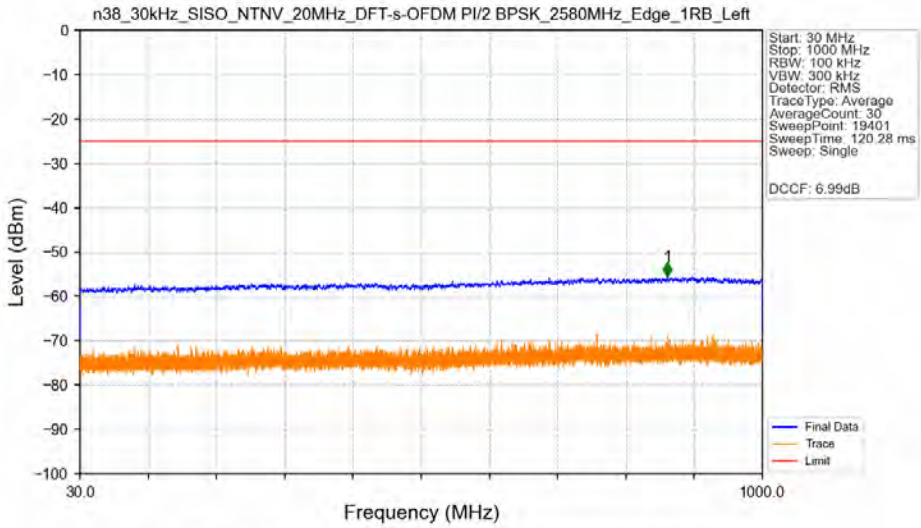
5.2.1 30k_SISO_20MHz_NTNV

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Edge_1RB_Left_Ant0



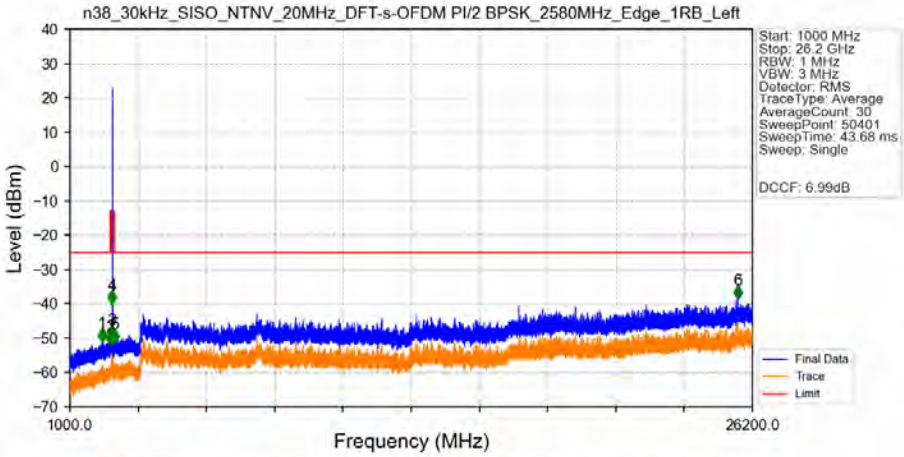
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.995	-52.16	-25	Pass
2490.5	2496	1	CHP	2	2491.105	-52.06	-13	Pass
2496	2550	1	CHP	3	2543.997	-51.52	-25	Pass
2550	2565	1	CHP	4	2563.247	-43.39	-13	Pass
2565	2569	1	CHP	5	2568.500	-40.89	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-31.78	-10	Pass
2570	2600	0.02	CHP	/	/	/	/	/

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Edge_1RB_Left_Ant0



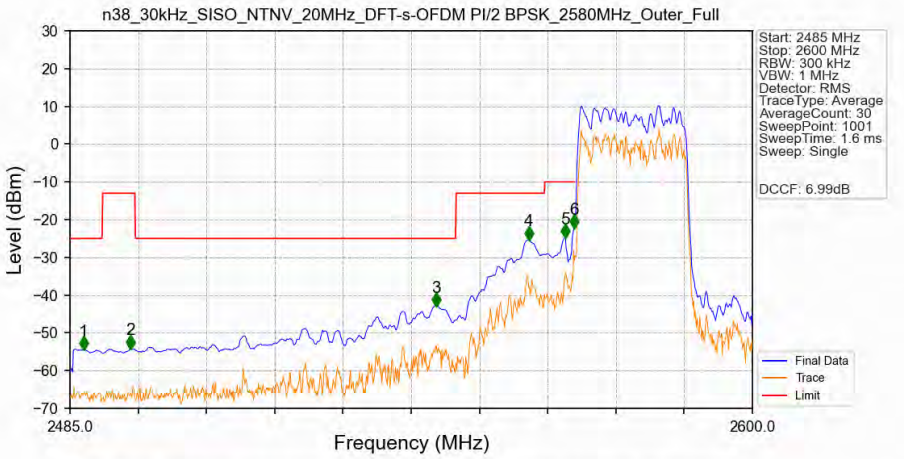
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	864.900	-55.49	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Edge_1RB_Left_Ant0



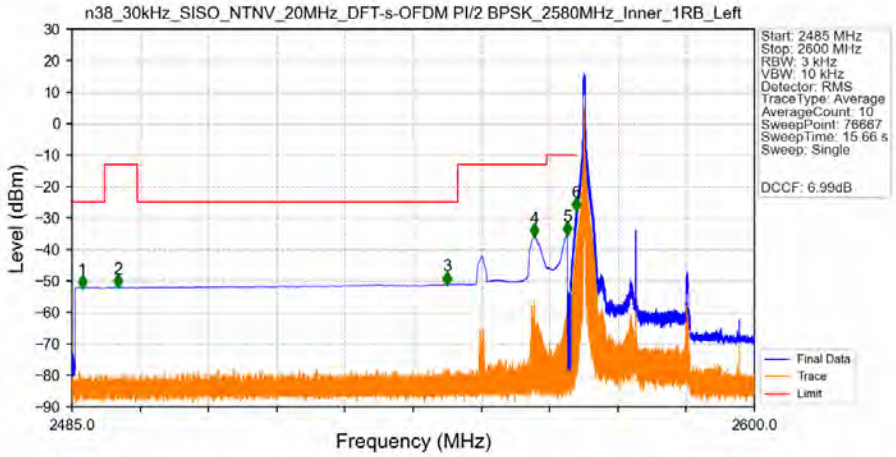
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2181.000	-50.78	-25	Pass
2490.5	2496	1	/	2	2495.500	-51.82	-13	Pass
2496	2550	1	/	3	2544.500	-50.02	-25	Pass
2550	2565	1	/	4	2563.000	-39.77	-13	Pass
2565	2625	1	/	/	/	/	/	/
2625	2640	1	/	5	2626.500	-51.08	-13	Pass
2640	26200	1	/	6	25671.000	-38.39	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Outer_Full_Ant0



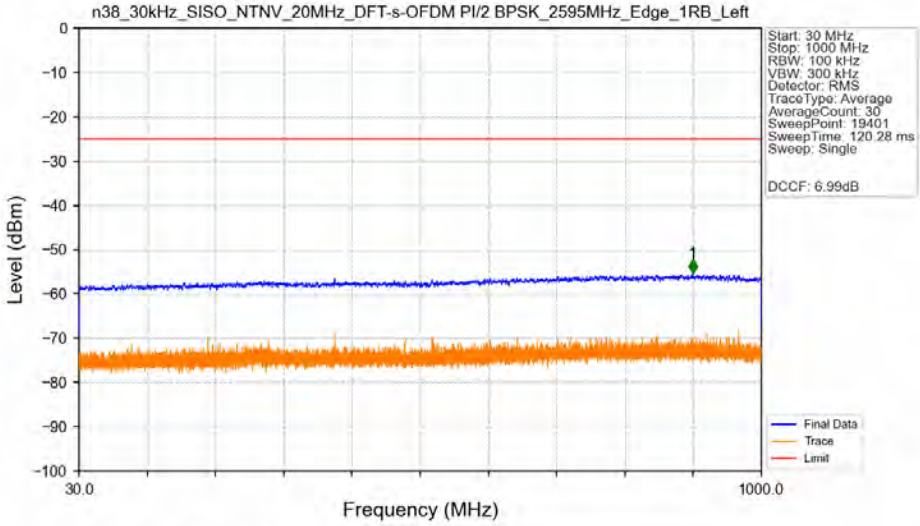
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.300	-54.28	-25	Pass
2490.5	2496	1	CHP	2	2495.235	-54.01	-13	Pass
2496	2550	1	CHP	3	2546.755	-42.70	-25	Pass
2550	2565	1	CHP	4	2562.280	-25.13	-13	Pass
2565	2569	1	CHP	5	2568.490	-24.67	-10	Pass
2569	2570	0.392	CHP	6	2569.985	-21.99	-10	Pass
2570	2600	0.392	CHP	/	/	/	/	/

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2580MHz_Inner_1RB_Left_Ant0



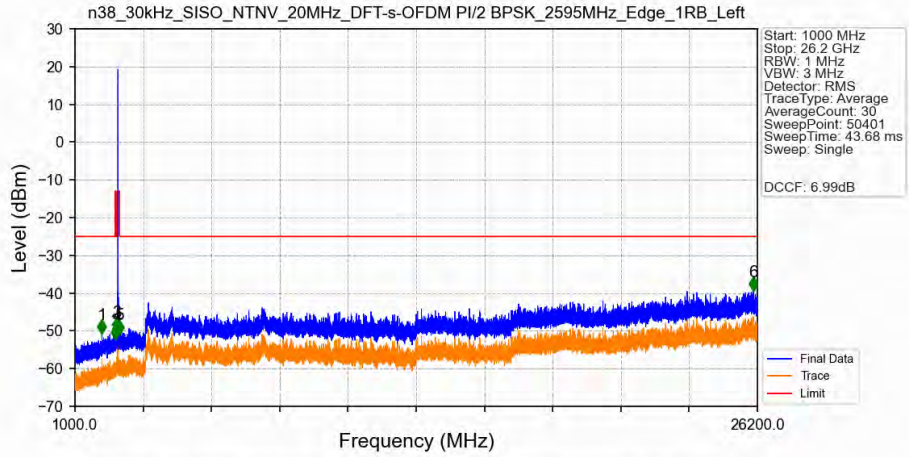
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.701	-52.15	-25	Pass
2490.5	2496	1	CHP	2	2492.781	-51.92	-13	Pass
2496	2550	1	CHP	3	2548.227	-51.05	-25	Pass
2550	2565	1	CHP	4	2562.944	-35.87	-13	Pass
2565	2569	1	CHP	5	2568.500	-35.20	-10	Pass
2569	2570	0.02	CHP	6	2569.983	-27.56	-10	Pass
2570	2600	0.02	CHP	/	/	/	/	/

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left_Ant0



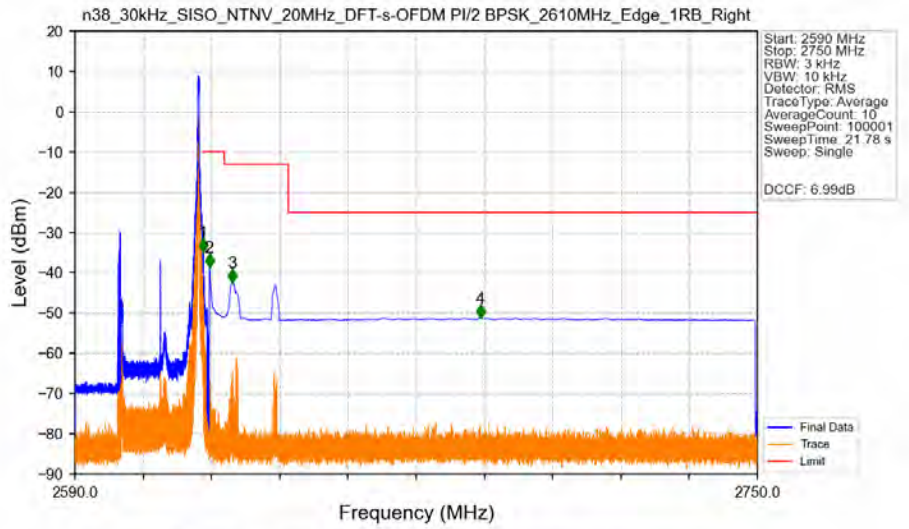
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	902.600	-55.34	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left_Ant0



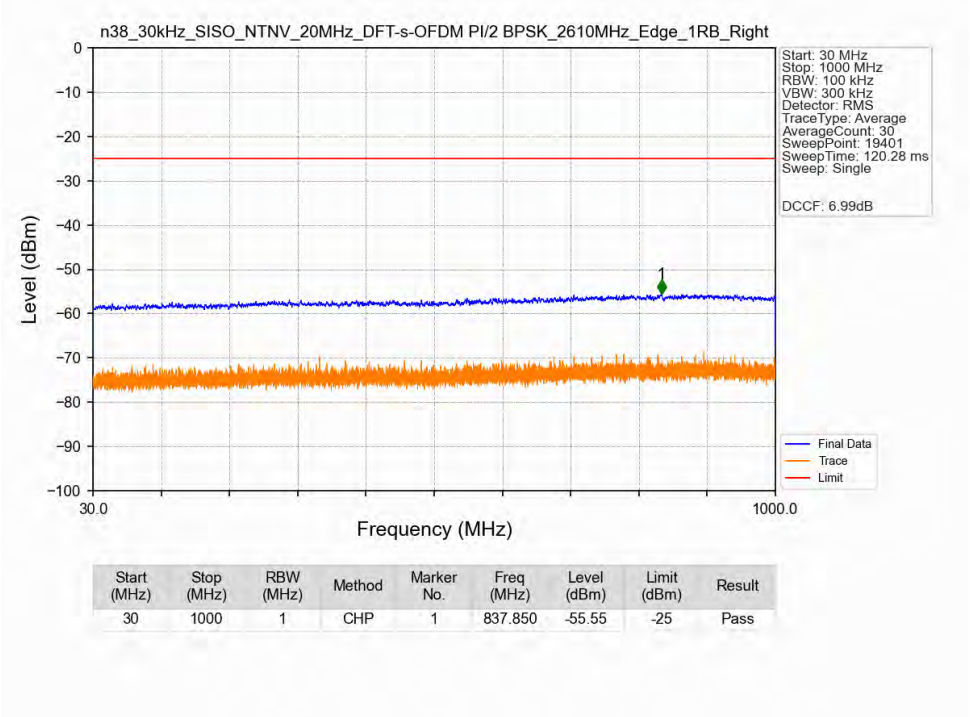
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	1997.500	-50.52	-25	Pass
2490.5	2496	1	/	2	2493.000	-51.89	-13	Pass
2496	2550	1	/	3	2538.000	-49.88	-25	Pass
2550	2565	1	/	4	2557.000	-50.91	-13	Pass
2565	2625	1	/	/	/	/	/	/
2625	2640	1	/	5	2635.500	-50.56	-13	Pass
2640	26200	1	/	6	26046.500	-39.07	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Edge_1RB_Right_Ant0



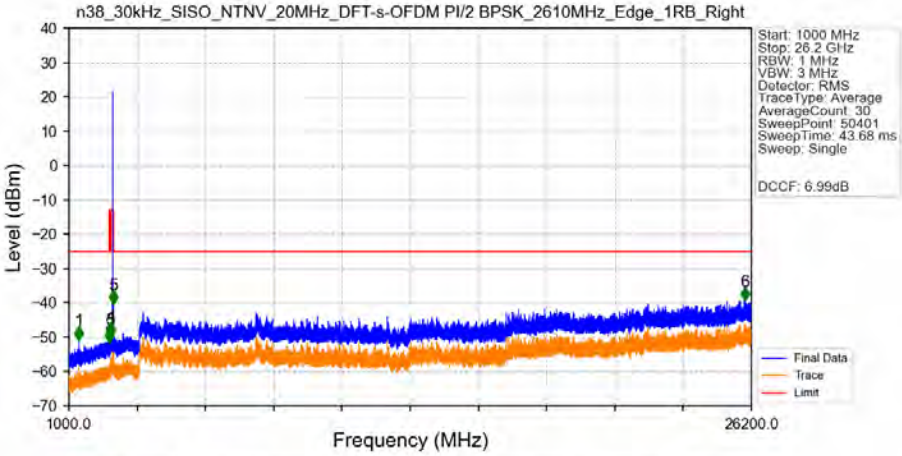
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.066	-34.82	-10	Pass
2621	2625	1	CHP	2	2621.501	-38.61	-10	Pass
2625	2640	1	CHP	3	2626.888	-42.42	-13	Pass
2640	2750	1	CHP	4	2685.099	-51.26	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Edge_1RB_Right_Ant0



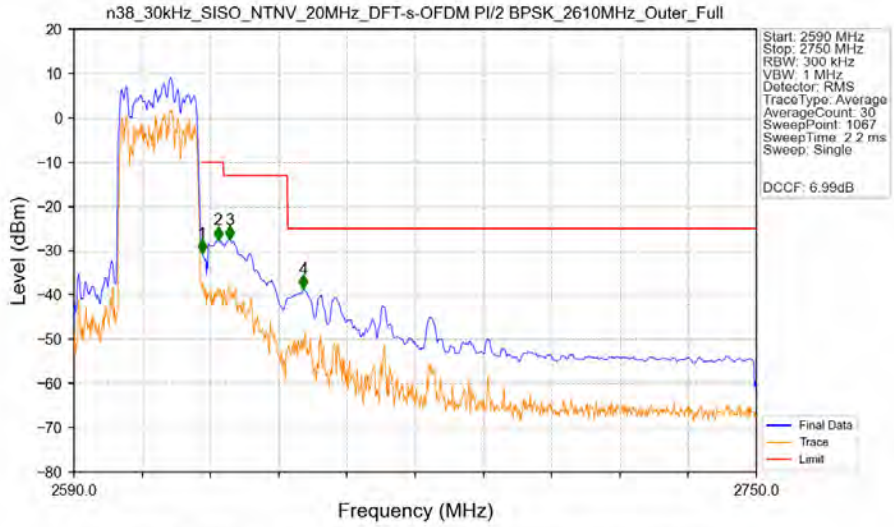
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	837.850	-55.55	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Edge_1RB_Right_Ant0



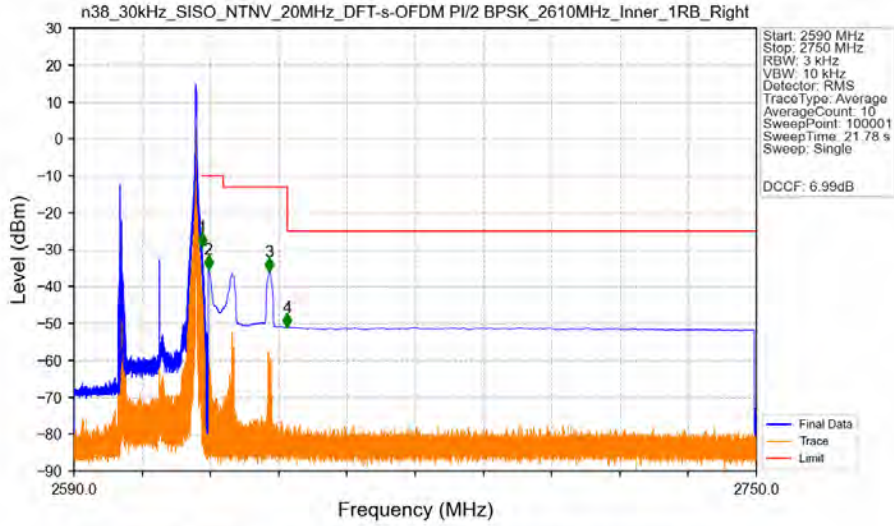
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	1369.500	-50.53	-25	Pass
2490.5	2496	1	/	2	2493.000	-51.39	-13	Pass
2496	2550	1	/	3	2526.500	-50.19	-25	Pass
2550	2565	1	/	4	2551.000	-49.31	-13	Pass
2565	2625	1	/	/	/	/	/	/
2625	2640	1	/	5	2637.000	-39.99	-13	Pass
2640	26200	1	/	6	25970.000	-39.17	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Outer_Full_Ant0



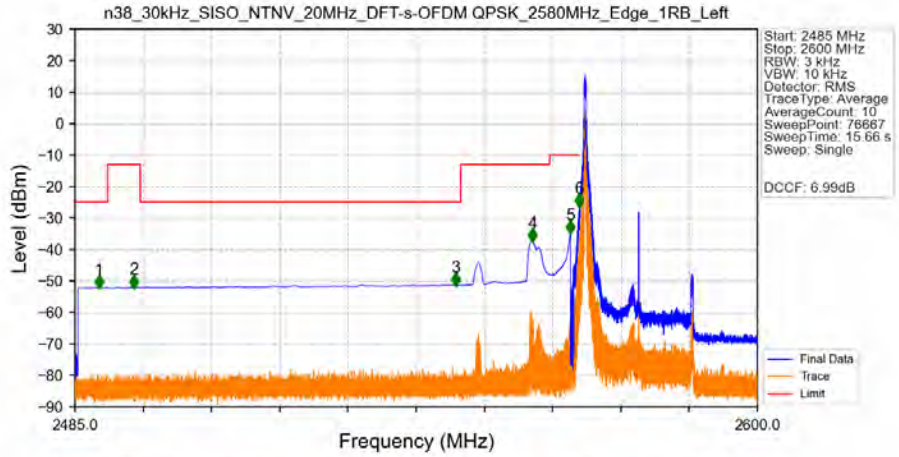
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.397	CHP	/	/	/	/	/
2620	2621	0.397	CHP	1	2620.019	-30.58	-10	Pass
2621	2625	1	CHP	2	2623.771	-27.58	-10	Pass
2625	2640	1	CHP	3	2626.473	-27.44	-13	Pass
2640	2750	1	CHP	4	2643.734	-38.68	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Inner_1RB_Right_Ant0



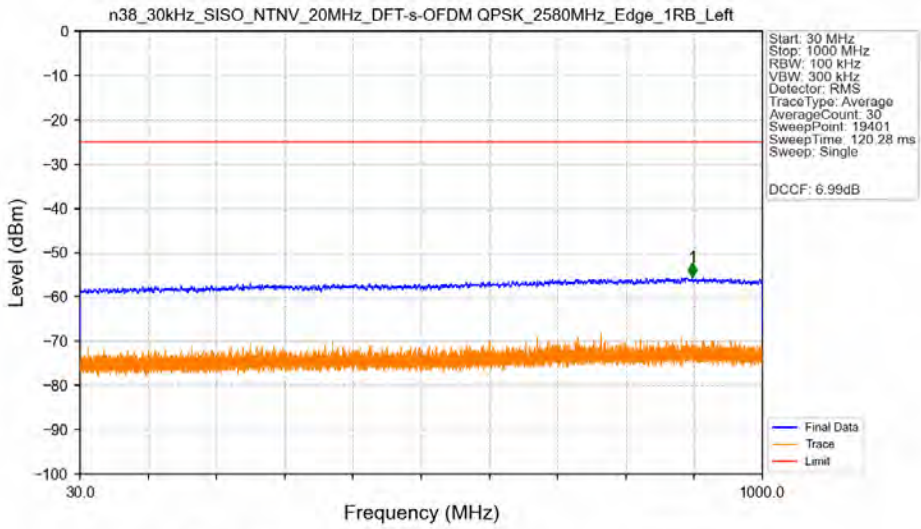
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.030	-29.15	-10	Pass
2621	2625	1	CHP	2	2621.507	-35.21	-10	Pass
2625	2640	1	CHP	3	2635.838	-35.91	-13	Pass
2640	2750	1	CHP	4	2640.002	-50.99	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Edge_1RB_Left_Ant0



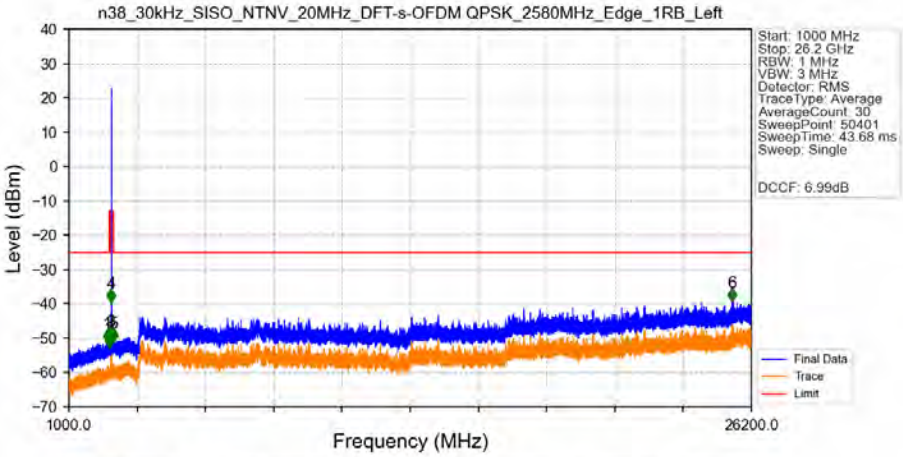
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.014	-52.20	-25	Pass
2490.5	2496	1	CHP	2	2494.920	-52.06	-13	Pass
2496	2550	1	CHP	3	2549.124	-51.37	-25	Pass
2550	2565	1	CHP	4	2562.123	-37.31	-13	Pass
2565	2569	1	CHP	5	2568.498	-34.72	-10	Pass
2569	2570	0.02	CHP	6	2570.000	-26.29	-10	Pass
2570	2600	0.02	CHP	/	/	/	/	/

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Edge_1RB_Left_Ant0



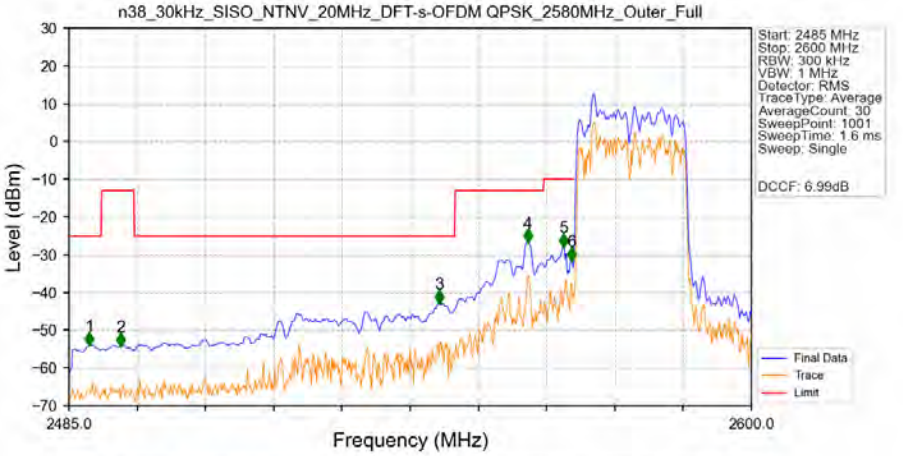
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	900.550	-55.44	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Edge_1RB_Left_Ant0



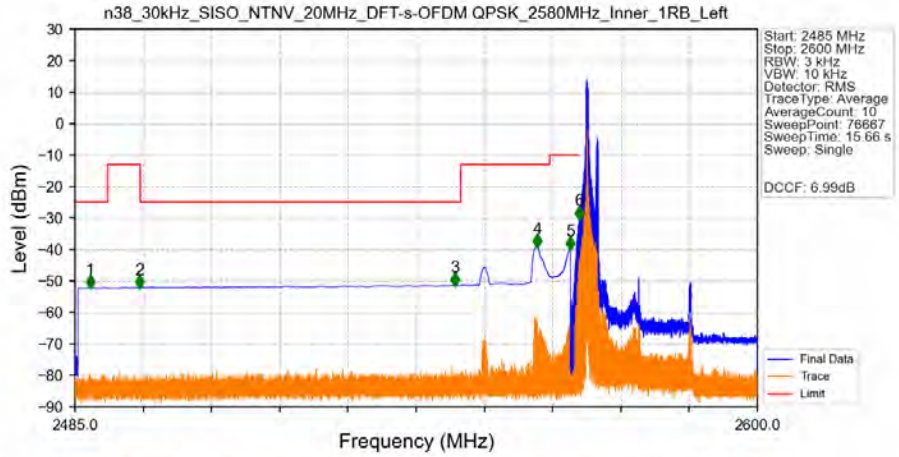
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2427.000	-50.95	-25	Pass
2490.5	2496	1	/	2	2496.000	-52.54	-13	Pass
2496	2550	1	/	3	2549.000	-50.33	-25	Pass
2550	2565	1	/	4	2563.000	-39.26	-13	Pass
2565	2625	1	/	/	/	/	/	/
2625	2640	1	/	5	2634.000	-50.92	-13	Pass
2640	26200	1	/	6	25488.500	-39.03	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Outer_Full_Ant0



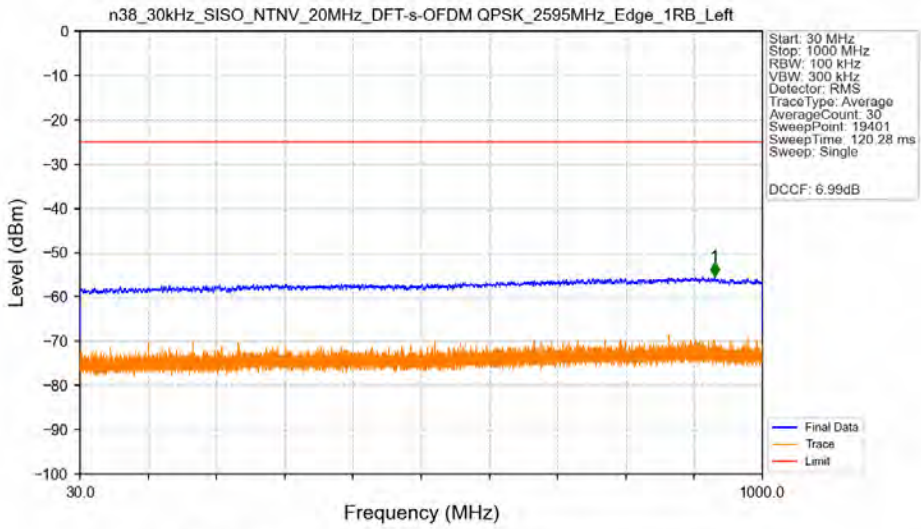
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.450	-53.78	-25	Pass
2490.5	2496	1	CHP	2	2493.740	-54.00	-13	Pass
2496	2550	1	CHP	3	2547.445	-42.67	-25	Pass
2550	2565	1	CHP	4	2562.280	-26.56	-13	Pass
2565	2569	1	CHP	5	2568.260	-27.69	-10	Pass
2569	2570	0.398	CHP	6	2569.640	-31.35	-10	Pass
2570	2600	0.398	CHP	/	/	/	/	/

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Inner_1RB_Left_Ant0



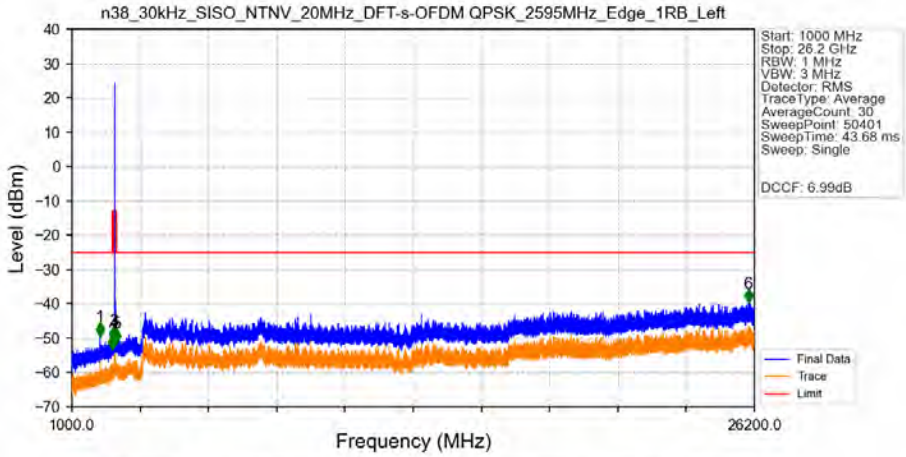
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.529	-52.18	-25	Pass
2490.5	2496	1	CHP	2	2495.929	-52.18	-13	Pass
2496	2550	1	CHP	3	2548.961	-51.39	-25	Pass
2550	2565	1	CHP	4	2562.921	-39.07	-13	Pass
2565	2569	1	CHP	5	2568.473	-39.95	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-30.27	-10	Pass
2570	2600	0.02	CHP	/	/	/	/	/

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left_Ant0



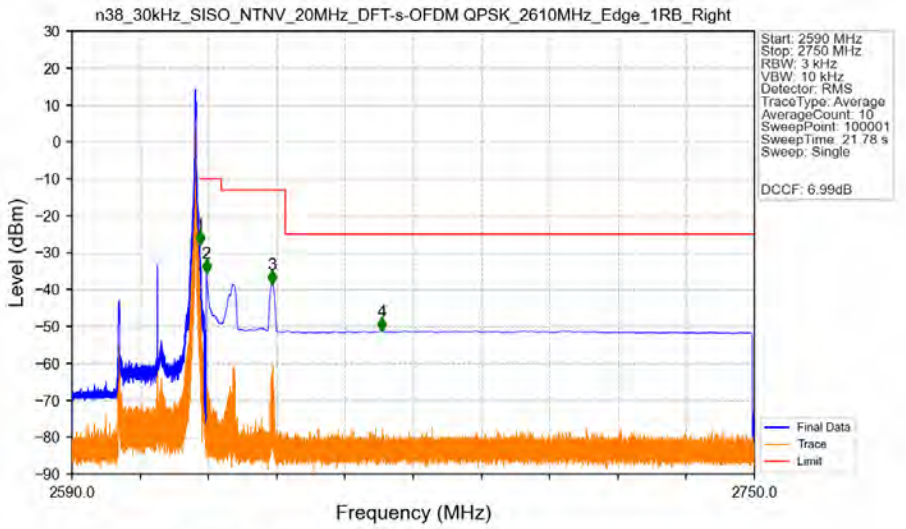
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	931.900	-55.34	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2034.000	-49.13	-25	Pass
2490.5	2496	1	/	2	2492.000	-52.94	-13	Pass
2496	2550	1	/	3	2549.000	-50.13	-25	Pass
2550	2565	1	/	4	2557.500	-50.71	-13	Pass
2565	2625	1	/	/	/	/	/	/
2625	2640	1	/	5	2631.500	-50.95	-13	Pass
2640	26200	1	/	6	25977.000	-39.34	-25	Pass

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Edge_1RB_Right_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.002	-27.90	-10	Pass
2621	2625	1	CHP	2	2621.501	-35.60	-10	Pass
2625	2640	1	CHP	3	2636.946	-38.47	-13	Pass
2640	2750	1	CHP	4	2662.645	-51.28	-25	Pass