

1 Conducted output power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Unflip EIRP (dBm)	Flip EIRP (dBm)	EIRP Limit (dBm)	Verdict
n78(3450-3550)	30	70	632334	90@45	DFT_BPSK	26.15	23.15	26.05	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_BPSK	25.66	22.66	25.56	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_BPSK	25.42	22.42	25.32	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QPSK	26.18	23.18	26.08	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QPSK	25.39	22.39	25.29	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QPSK	25.23	22.23	25.13	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QAM16	25.11	22.11	25.01	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QAM16	24.82	21.82	24.72	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QAM16	24.56	21.56	24.46	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QAM64	23.72	20.72	23.62	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QAM64	22.99	19.99	22.89	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QAM64	22.72	19.72	22.62	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QPSK	24.61	21.61	24.51	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QPSK	24.05	21.05	23.95	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QPSK	23.79	20.79	23.69	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QAM16	24.13	21.13	24.03	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QAM16	23.47	20.47	23.37	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QAM16	23.17	20.17	23.07	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QAM64	22.63	19.63	22.53	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QAM64	22.41	19.41	22.31	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QAM64	22.19	19.19	22.09	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	26.03	23.03	25.93	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_BPSK	25.62	22.62	25.52	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_BPSK	25.60	22.60	25.50	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	26.00	23.00	25.90	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QPSK	25.58	22.58	25.48	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QPSK	25.41	22.41	25.31	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QAM16	25.01	22.01	24.91	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QAM16	24.86	21.86	24.76	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QAM16	24.80	21.80	24.70	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QAM64	23.52	20.52	23.42	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QAM64	23.06	20.06	22.96	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QAM64	23.46	20.46	23.36	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QPSK	24.42	21.42	24.32	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QPSK	24.23	21.23	24.13	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QPSK	24.00	21.00	23.90	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QAM16	23.95	20.95	23.85	30	PASS

n78(3450-3550)	30	70	633334	1@1	CP_QAM16	23.89	20.89	23.79	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QAM16	23.78	20.78	23.68	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QAM64	22.44	19.44	22.34	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QAM64	22.62	19.62	22.52	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QAM64	22.46	19.46	22.36	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_BPSK	25.90	22.90	25.80	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_BPSK	25.63	22.63	25.53	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_BPSK	25.62	22.62	25.52	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QPSK	25.91	22.91	25.81	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QPSK	25.47	22.47	25.37	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QPSK	25.45	22.45	25.35	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QAM16	24.90	21.90	24.80	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QAM16	24.62	21.62	24.52	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QAM16	24.54	21.54	24.44	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QAM64	23.36	20.36	23.26	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QAM64	23.07	20.07	22.97	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QAM64	23.09	20.09	22.99	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QPSK	24.38	21.38	24.28	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QPSK	24.08	21.08	23.98	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QPSK	24.17	21.17	24.07	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QAM16	23.86	20.86	23.76	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QAM16	23.66	20.66	23.56	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QAM16	23.67	20.67	23.57	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QAM64	22.35	19.35	22.25	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QAM64	22.55	19.55	22.45	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QAM64	22.55	19.55	22.45	30	PASS

2 Frequency stability for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	h Limit (ppm)	Verdict
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	3.89	-30.55	-0.01	Within authorized band for 5G NR n78	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_BPSK	3.45	-31.12	-0.01		PASS
n78(3450-3550)	30	70	633334	1@187	DFT_BPSK	4.48	-32.11	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	3.89	-26.79	-0.01		PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QPSK	3.45	-28.52	-0.01		PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QPSK	4.48	-23.99	-0.01		PASS

NV:

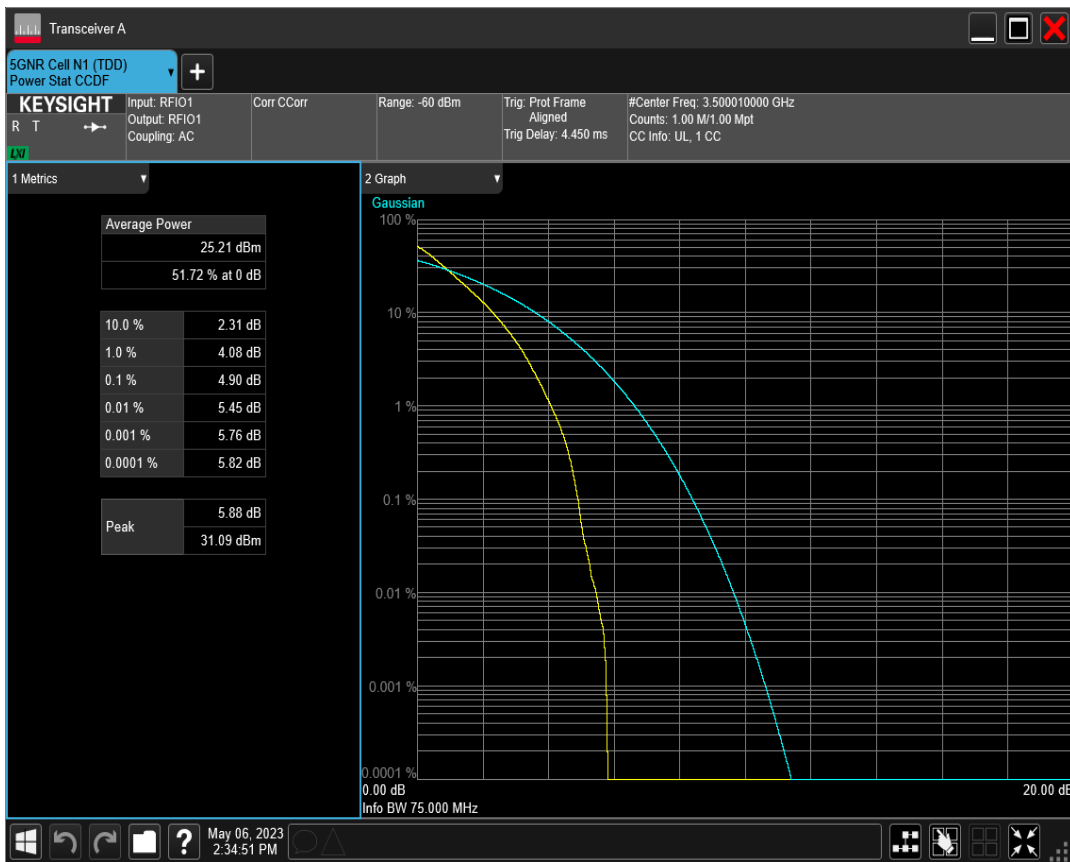
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Temperature(°C)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-30	-30.15	-0.01	Within authorized band for 5G NR n78	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-20	-30.32	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-10	-32.47	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	0	-26.57	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	10	-28.64	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	20	-23.6	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	30	-29.71	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	40	-30.68	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	50	-32.33	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-30	-26.38	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-20	-28.22	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-10	-23.91	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	0	-29.7	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	10	-30.54	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	20	-31.95	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	30	-26.21	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	40	-28.59	-0.01	PASS	
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	50	-24.37	-0.01	PASS	

Note: Only the worst case shown in the report.

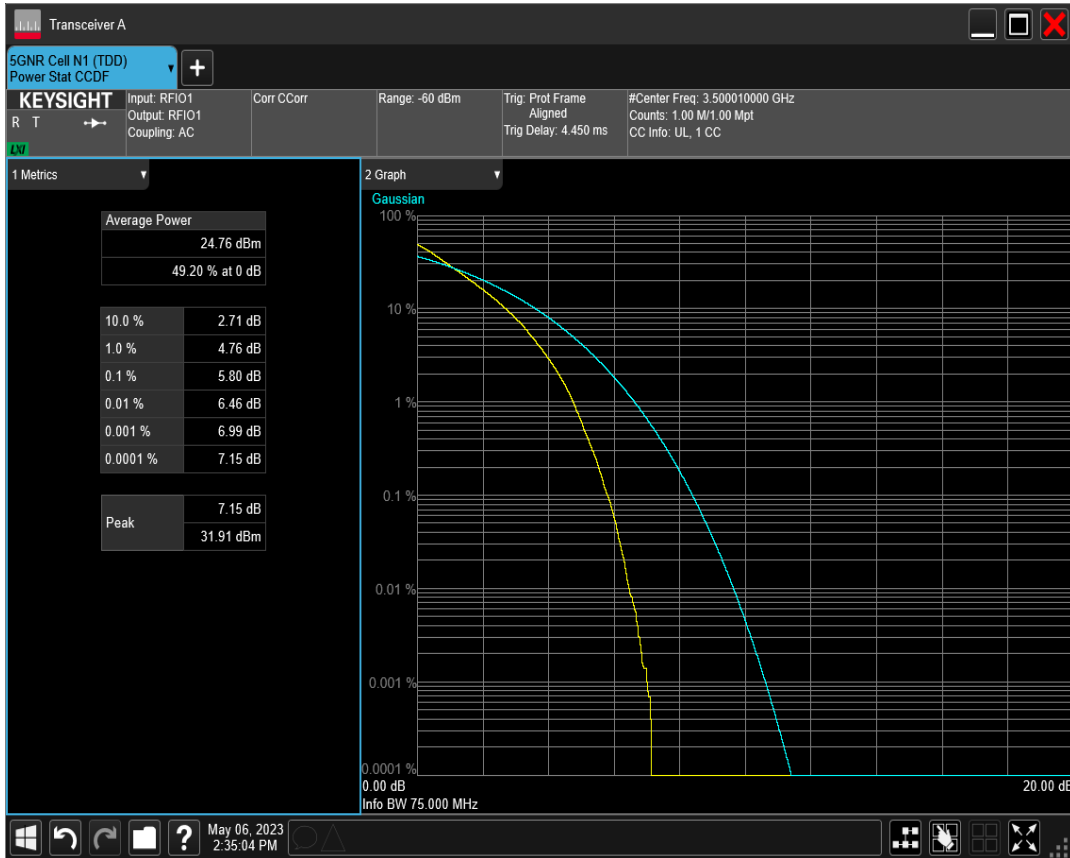
3 Peak-to-Average Ratio for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n78(3450-3550)	30	70	633334	180@0	DFT_BPSK	4.90	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	5.80	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM16	6.61	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM64	6.84	13	PASS

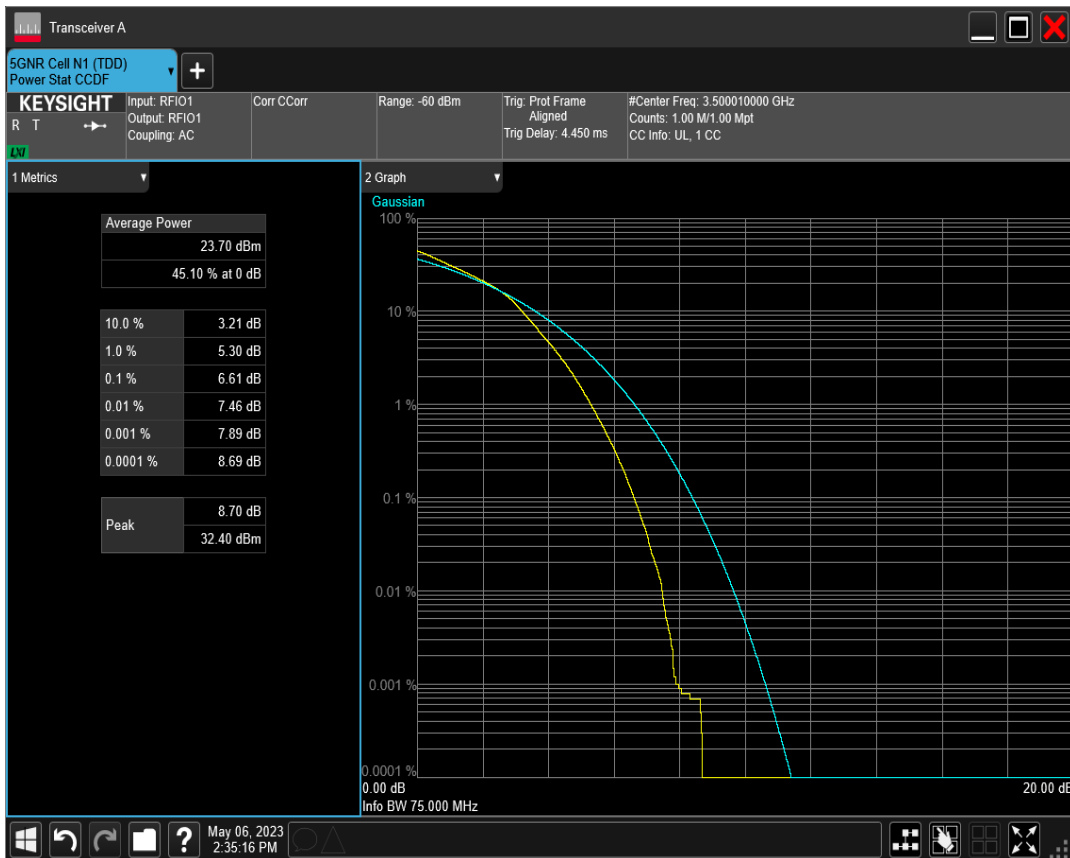
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=633334 RB=180@0



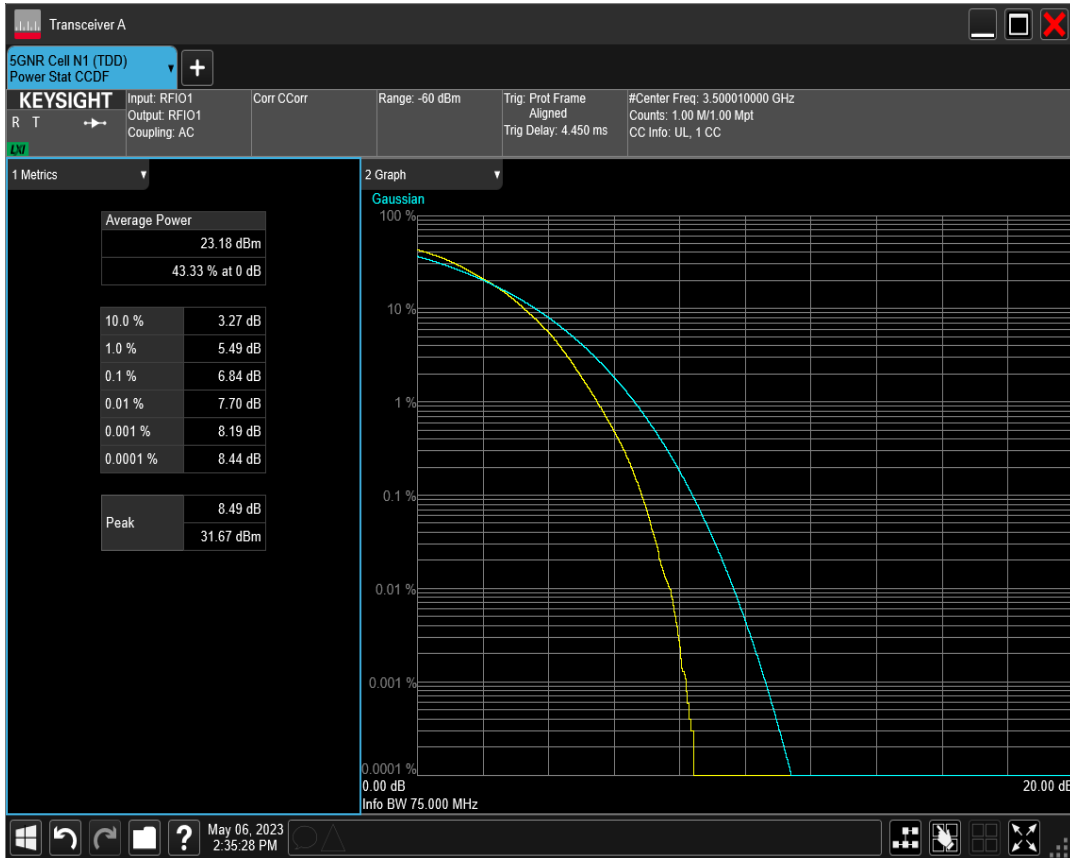
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=633334 RB=180@0



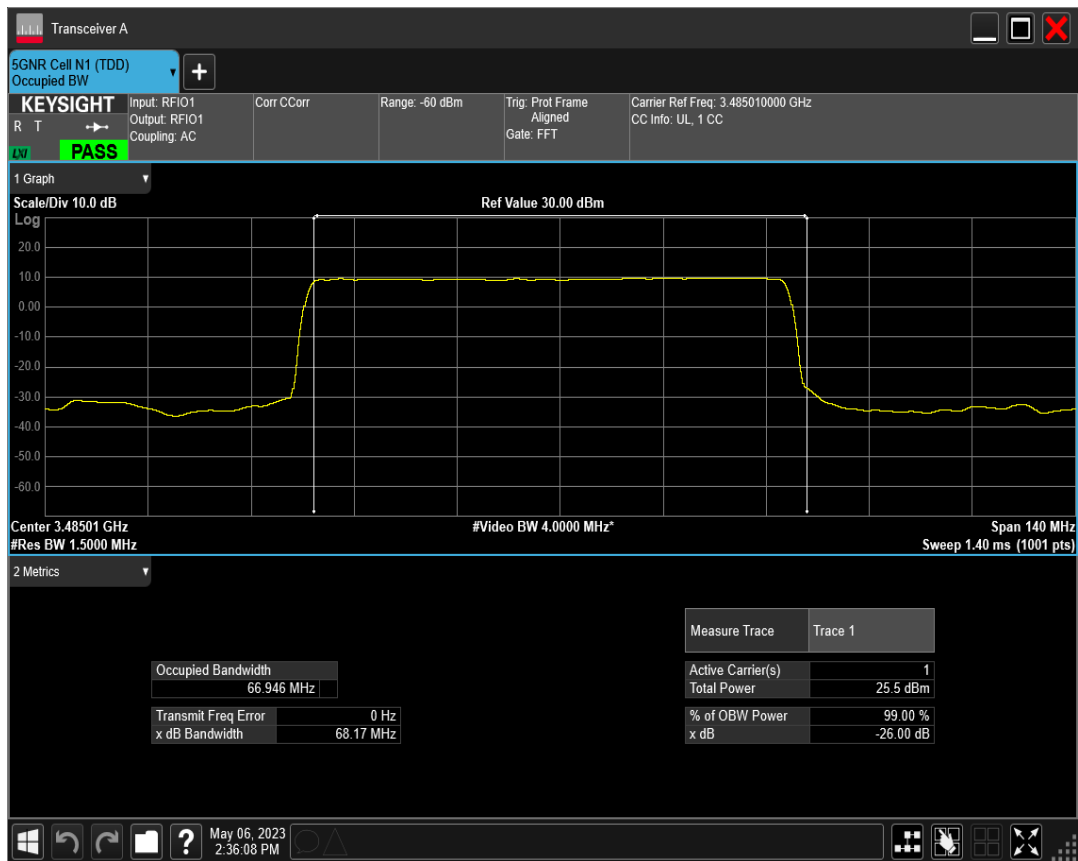
n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=633334 RB=180@0



4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n78(3450-3550)	30	70	632334	180@0	DFT_BPSK	66.950	68.170	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	66.960	68.180	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QAM16	66.960	68.190	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QAM64	66.920	68.150	PASS
n78(3450-3550)	30	70	632334	189@0	CP_QPSK	67.820	71.430	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_BPSK	66.750	68.140	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	66.740	68.150	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM16	66.710	68.170	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM64	66.730	68.130	PASS
n78(3450-3550)	30	70	633334	189@0	CP_QPSK	67.820	71.400	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_BPSK	66.690	68.140	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	66.480	68.110	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QAM16	66.720	68.160	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QAM64	66.660	68.130	PASS
n78(3450-3550)	30	70	634332	189@0	CP_QPSK	67.800	71.410	PASS

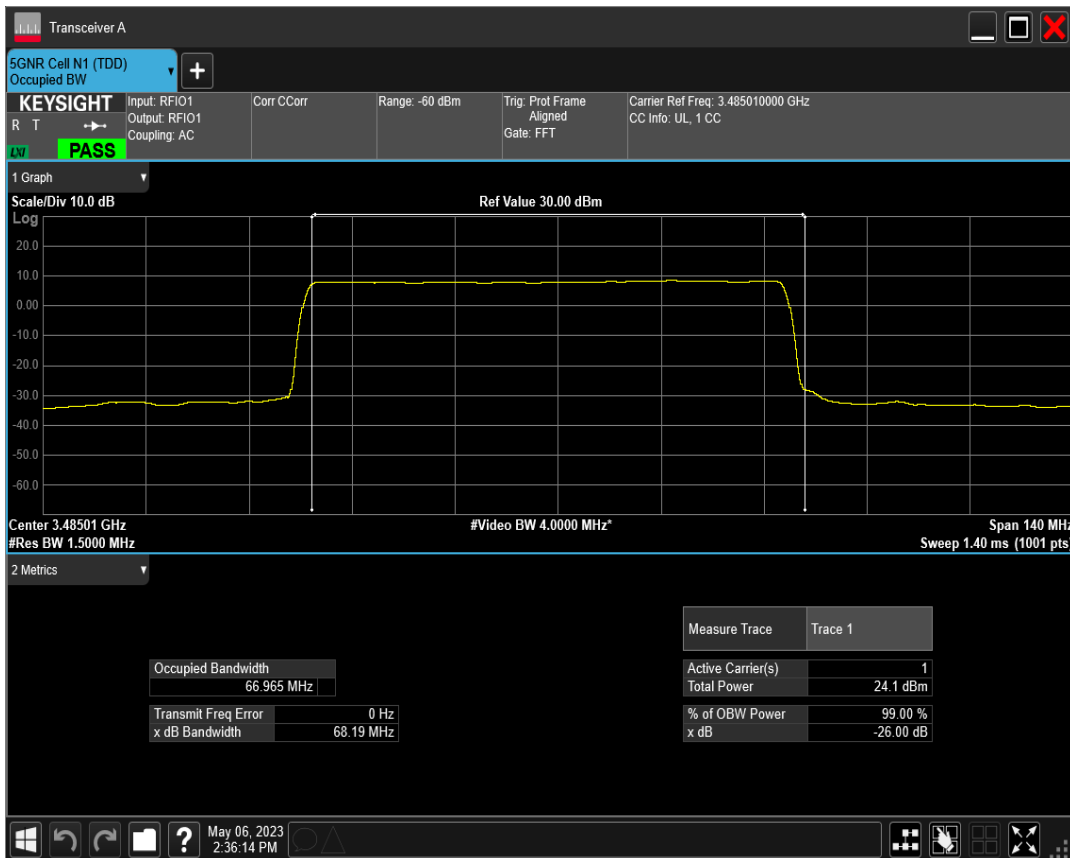
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=632334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



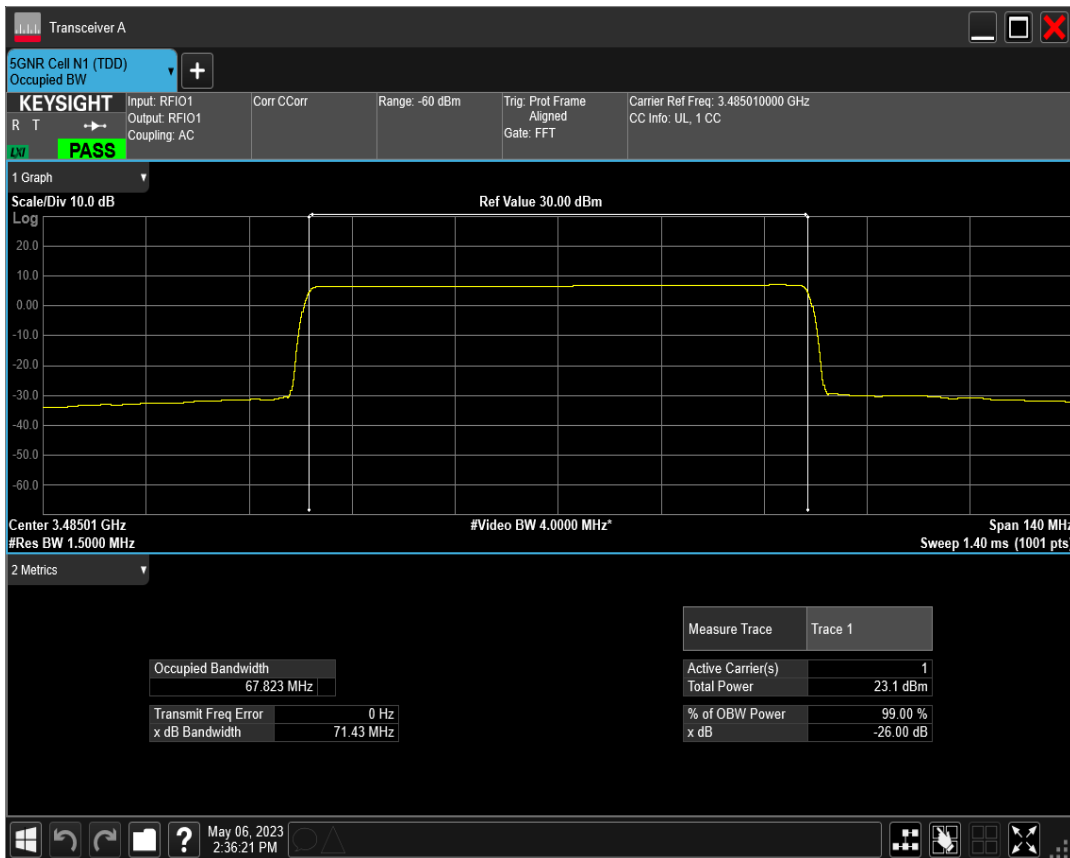
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=632334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=632334 RB=180@0



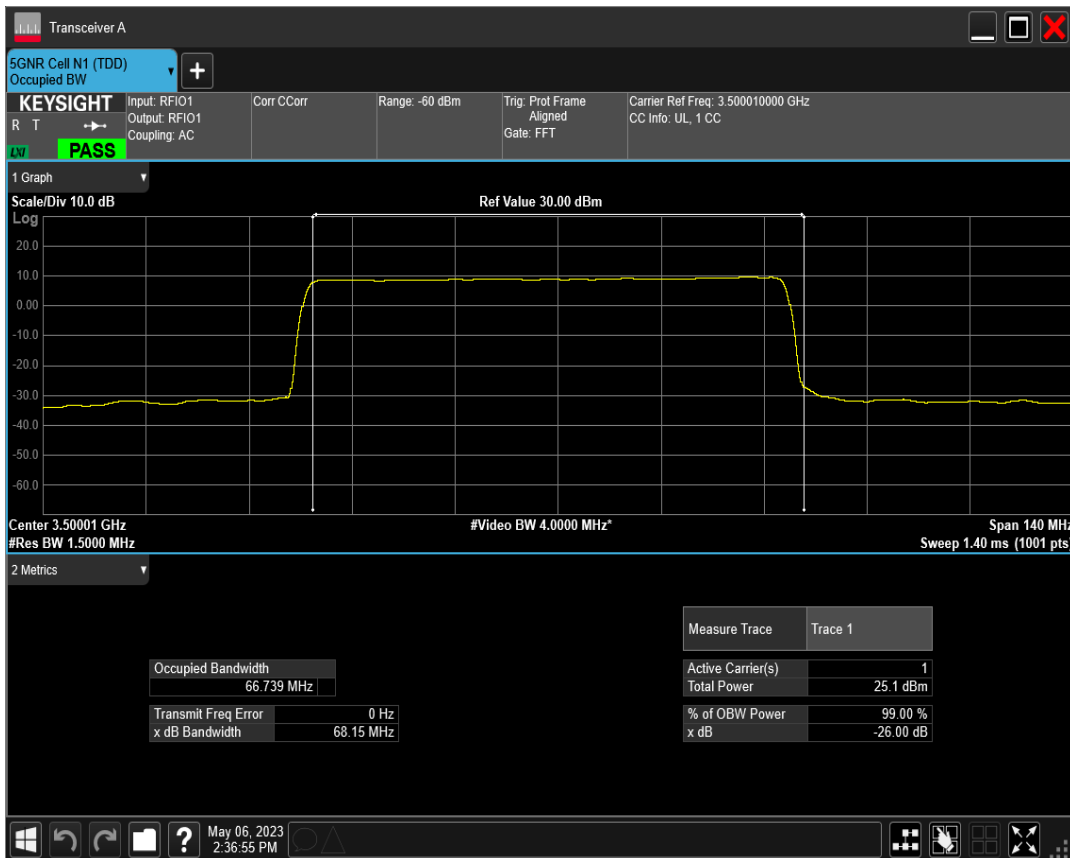
n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=632334 RB=189@0



n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=633334 RB=180@0



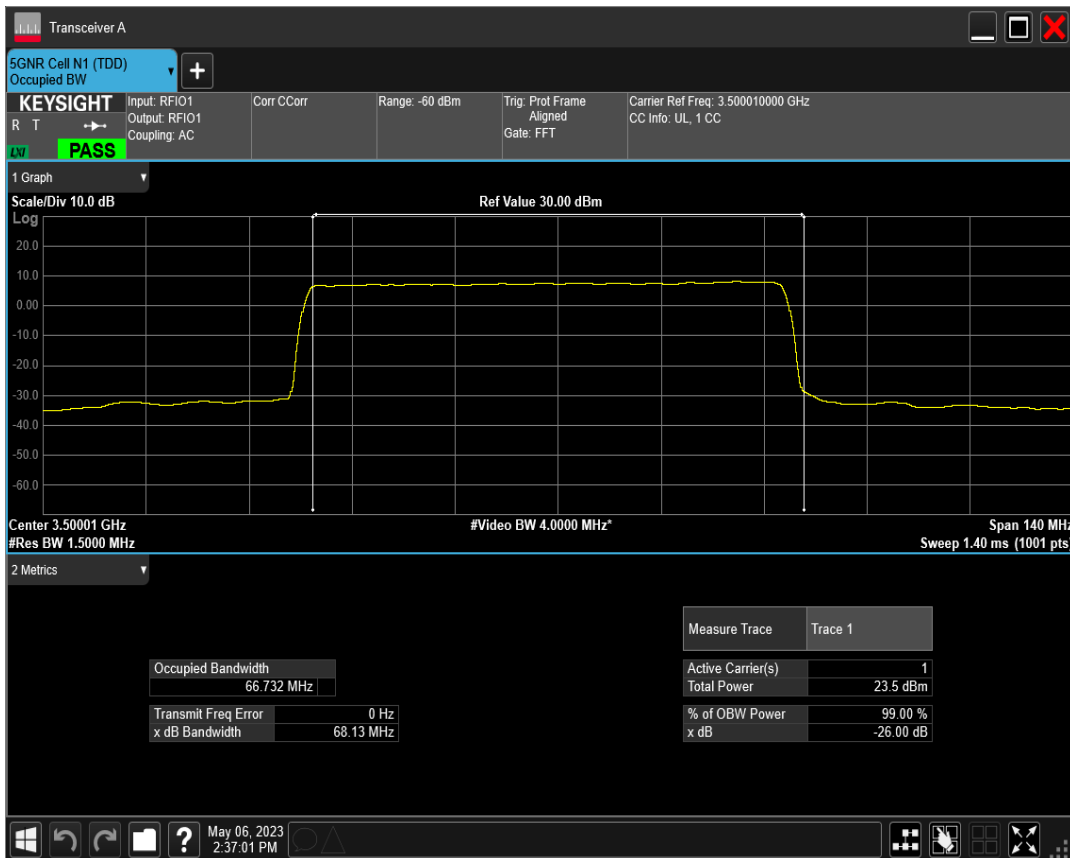
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n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=633334 RB=180@0



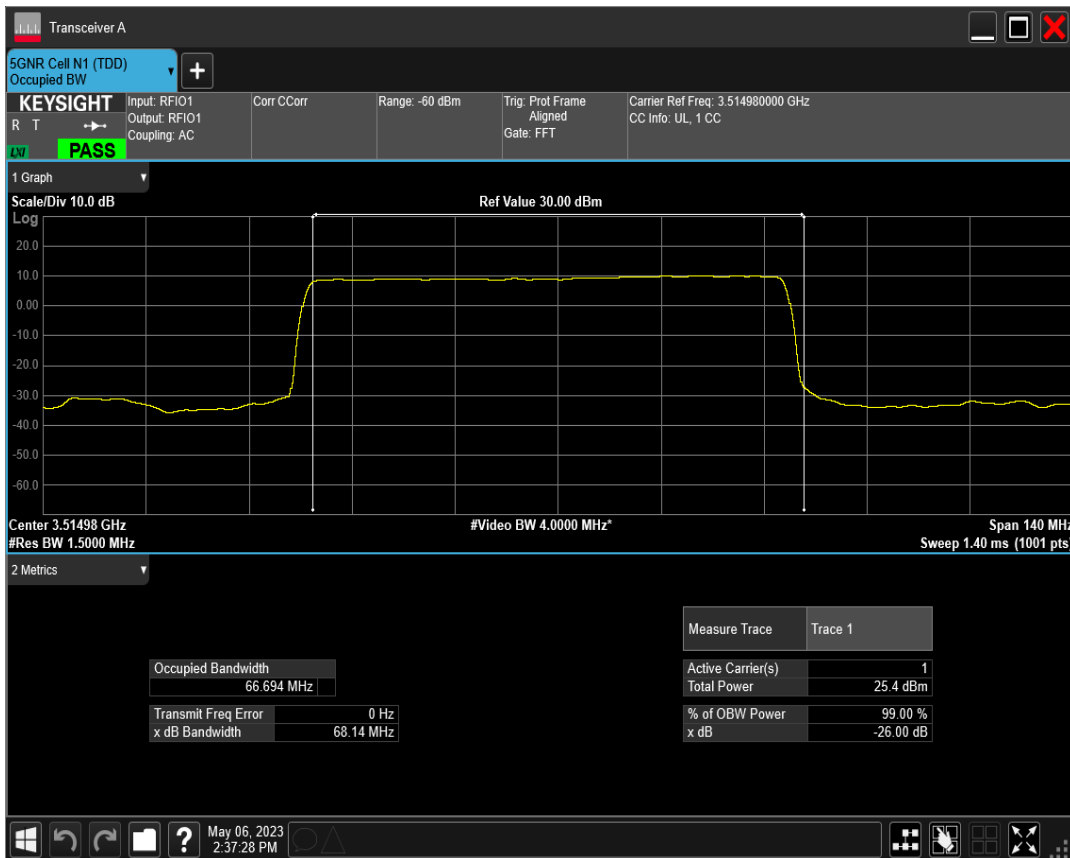
n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=633334 RB=180@0



n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=633334 RB=189@0



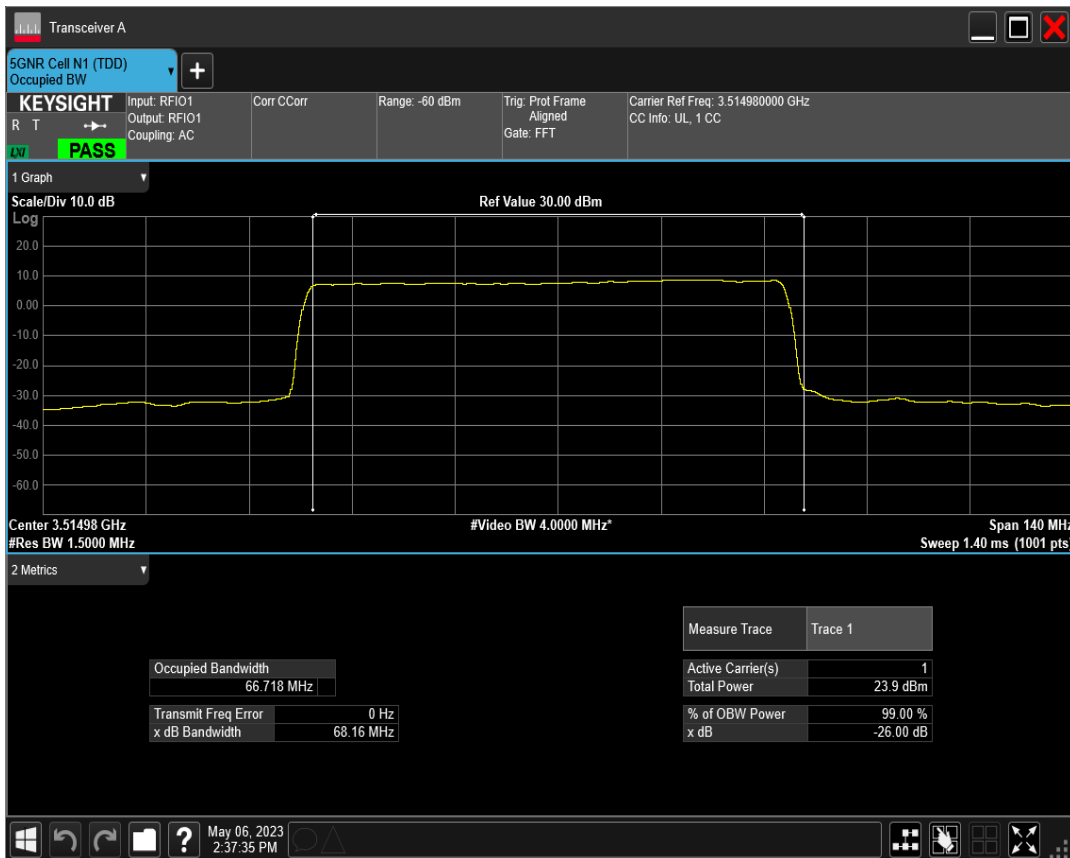
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=634332 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=180@0



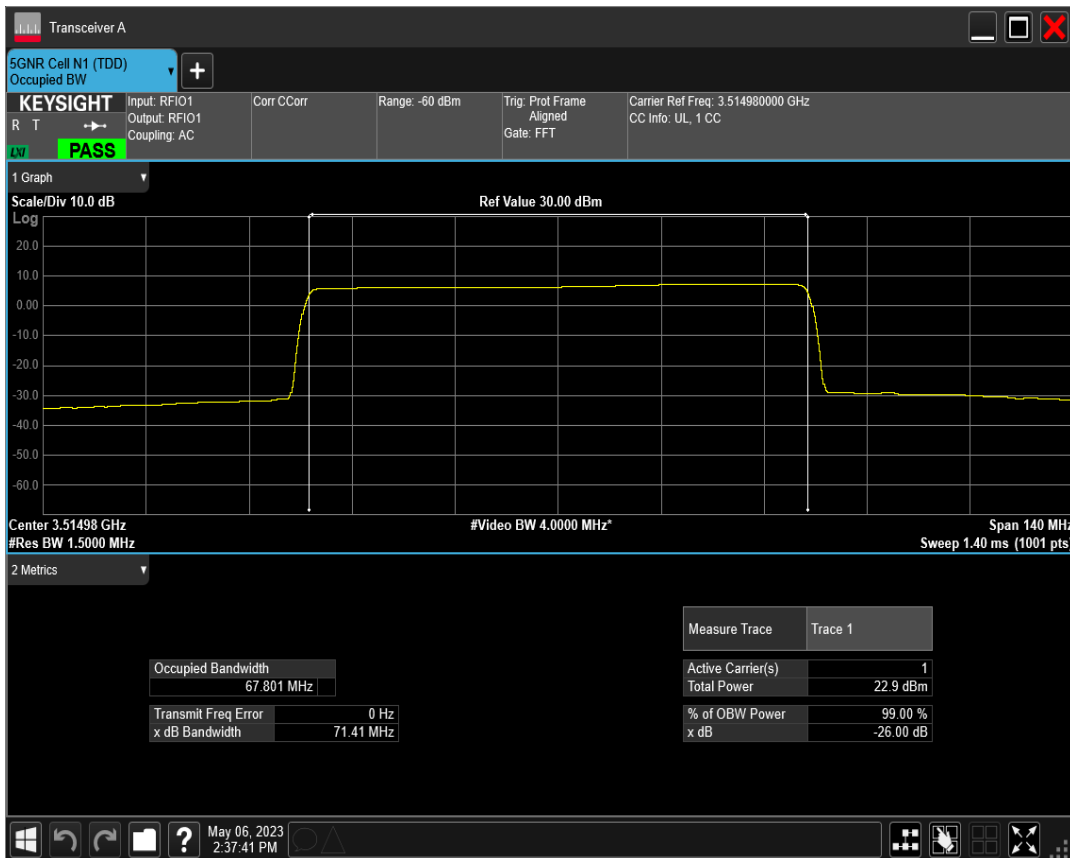
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=634332 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=634332 RB=180@0



n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=634332 RB=189@0



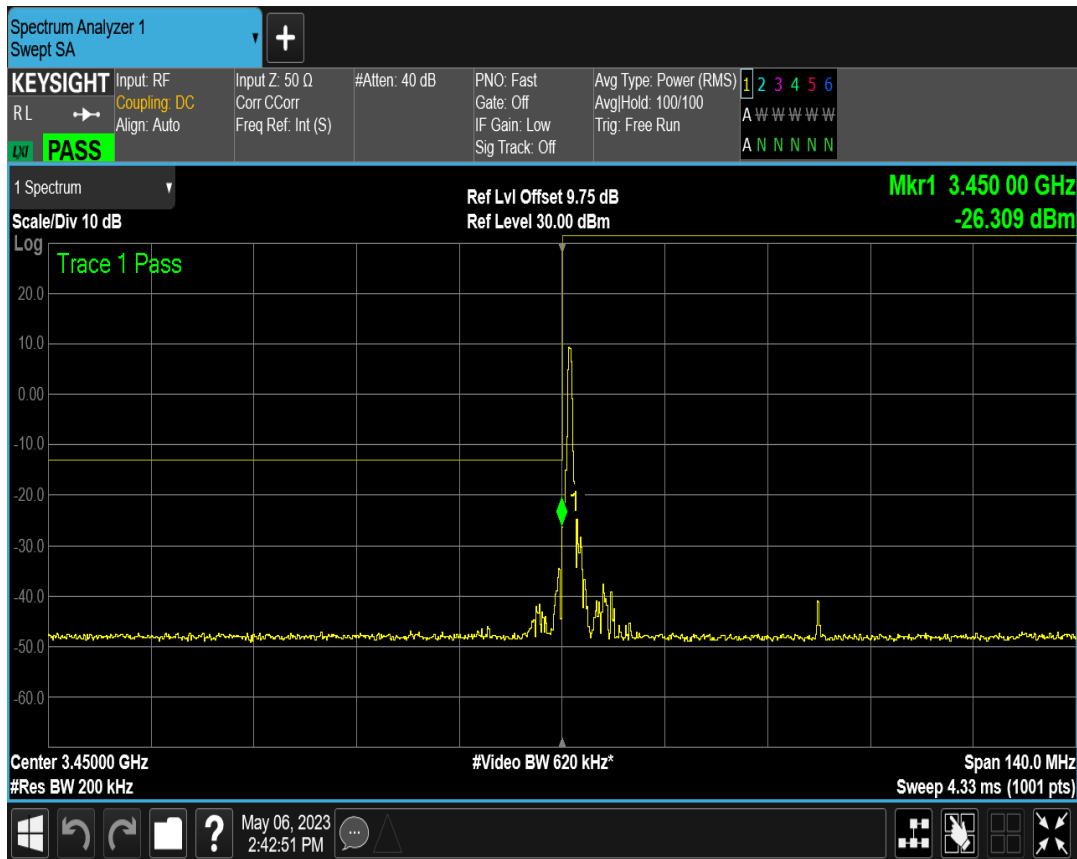
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	3450.00	-38.16	-13	PASS
n78(3450-3550)	30	70	632334	1@0	DFT_QPSK	3450.00	-26.30	-13	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	3606.56	-37.53	-13	PASS
n78(3450-3550)	30	70	634332	1@188	DFT_QPSK	3551.68	-40.80	-13	PASS

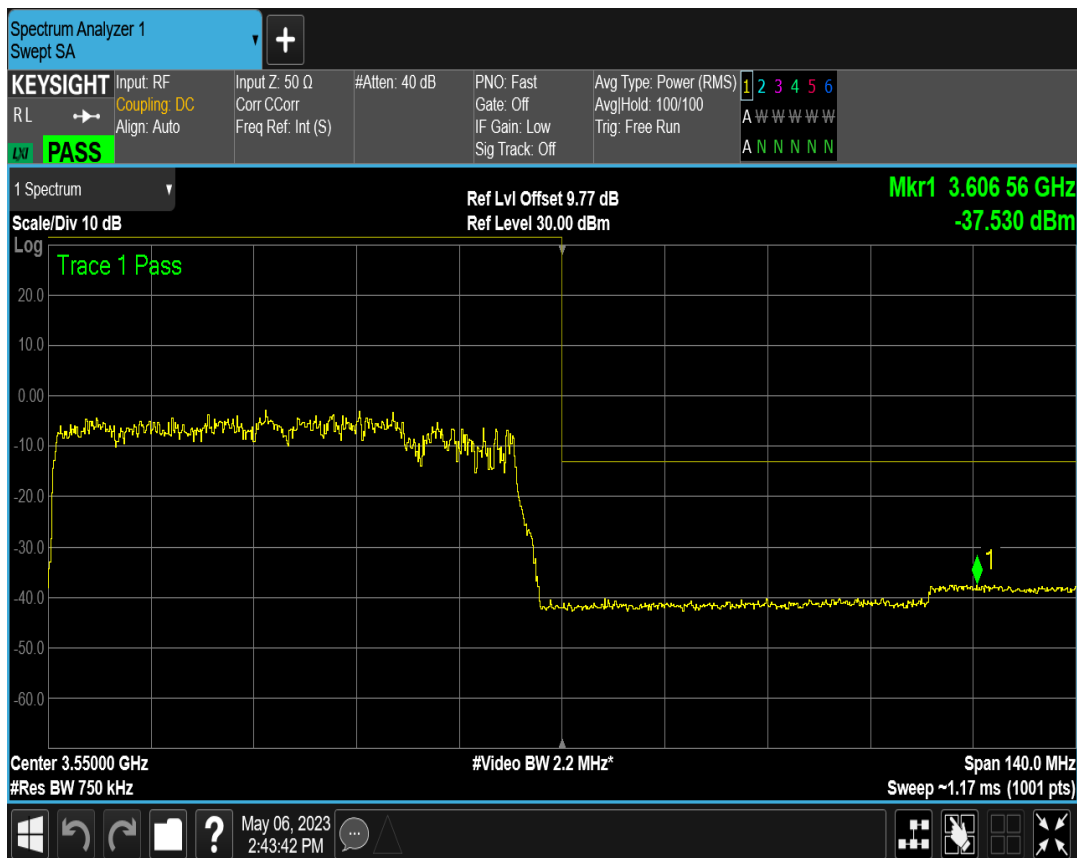
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



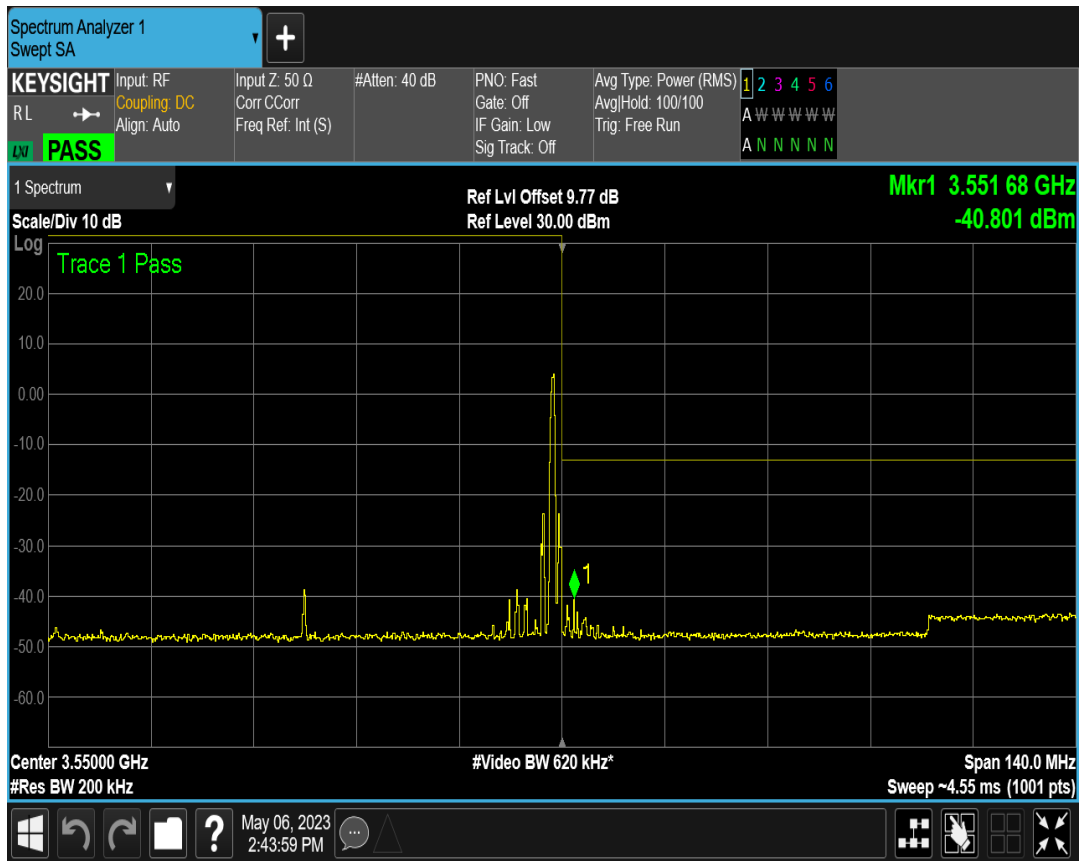
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=180@0



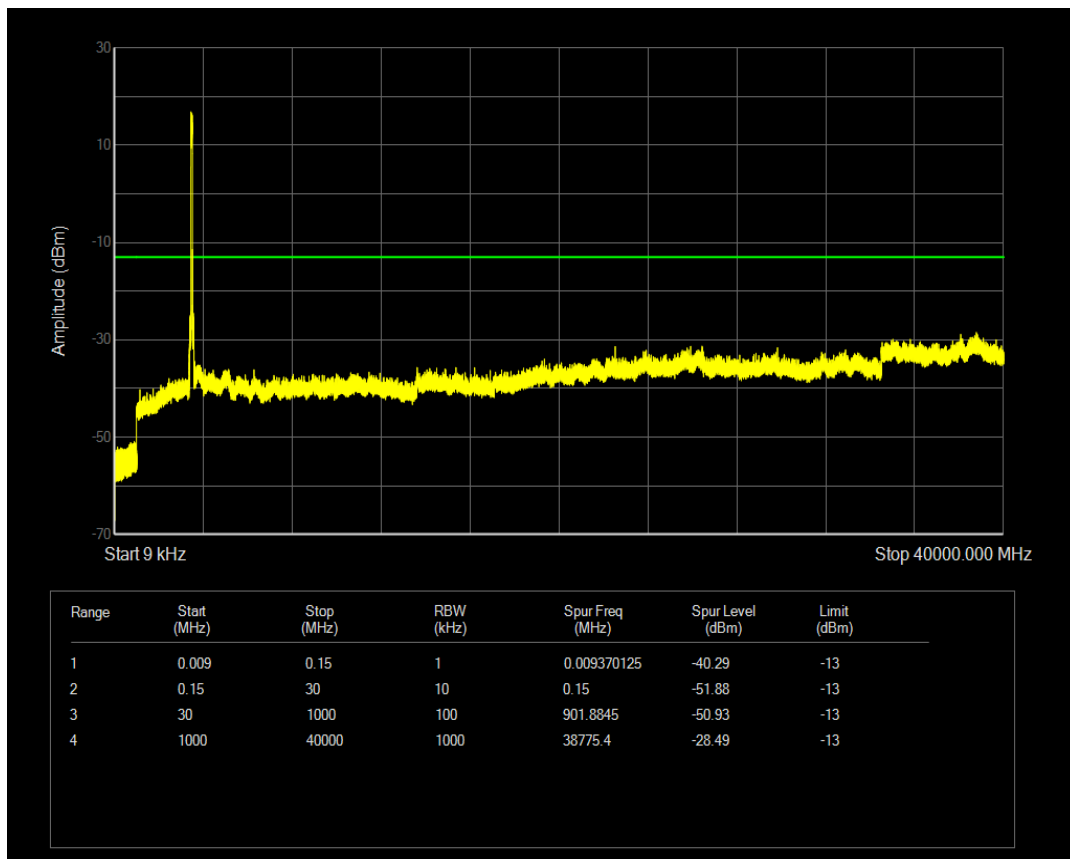
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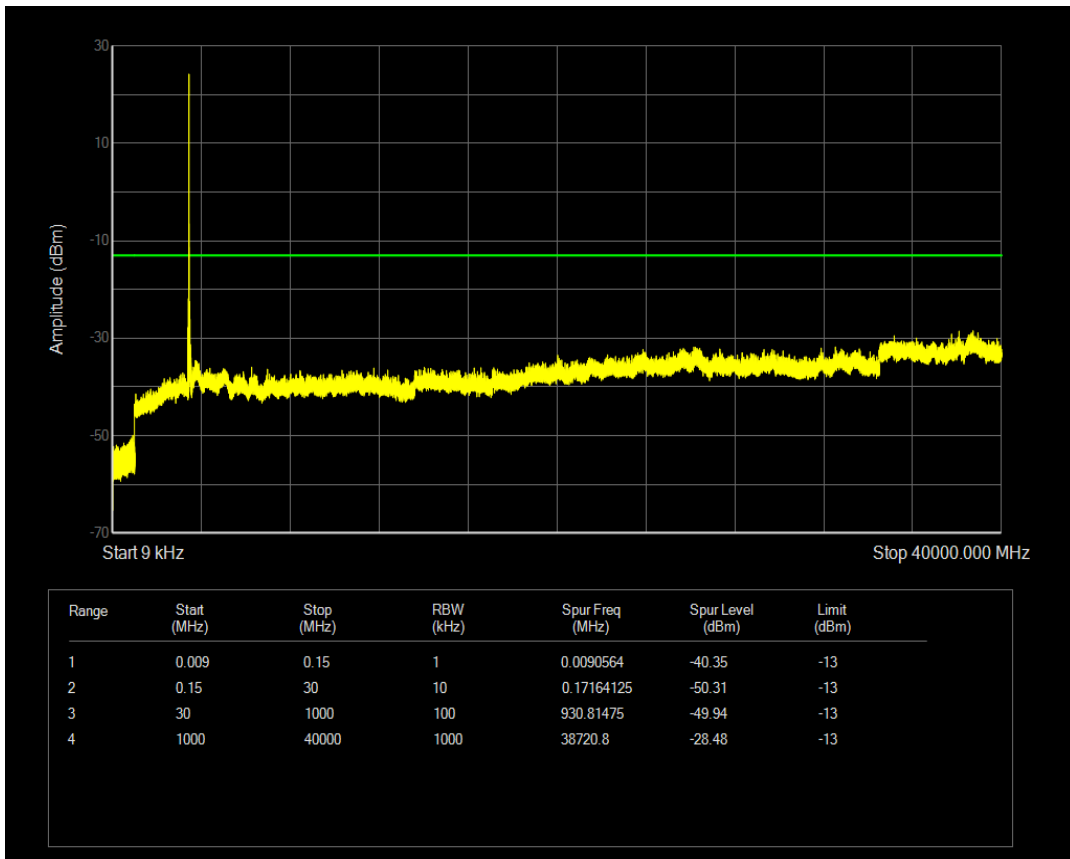
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	38775.40	-28.49	-13	PASS
n78(3450-3550)	30	70	632334	1@0	DFT_QPSK	38720.80	-28.48	-13	PASS
n78(3450-3550)	30	70	632334	1@188	DFT_QPSK	38586.25	-27.65	-13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	38632.08	-29.04	-13	PASS
n78(3450-3550)	30	70	633334	1@0	DFT_QPSK	38687.65	-29.01	-13	PASS
n78(3450-3550)	30	70	633334	1@188	DFT_QPSK	38572.60	-29.24	-13	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	38683.75	-28.11	-13	PASS
n78(3450-3550)	30	70	634332	1@0	DFT_QPSK	38529.70	-28.22	-13	PASS
n78(3450-3550)	30	70	634332	1@188	DFT_QPSK	38687.65	-29.08	-13	PASS

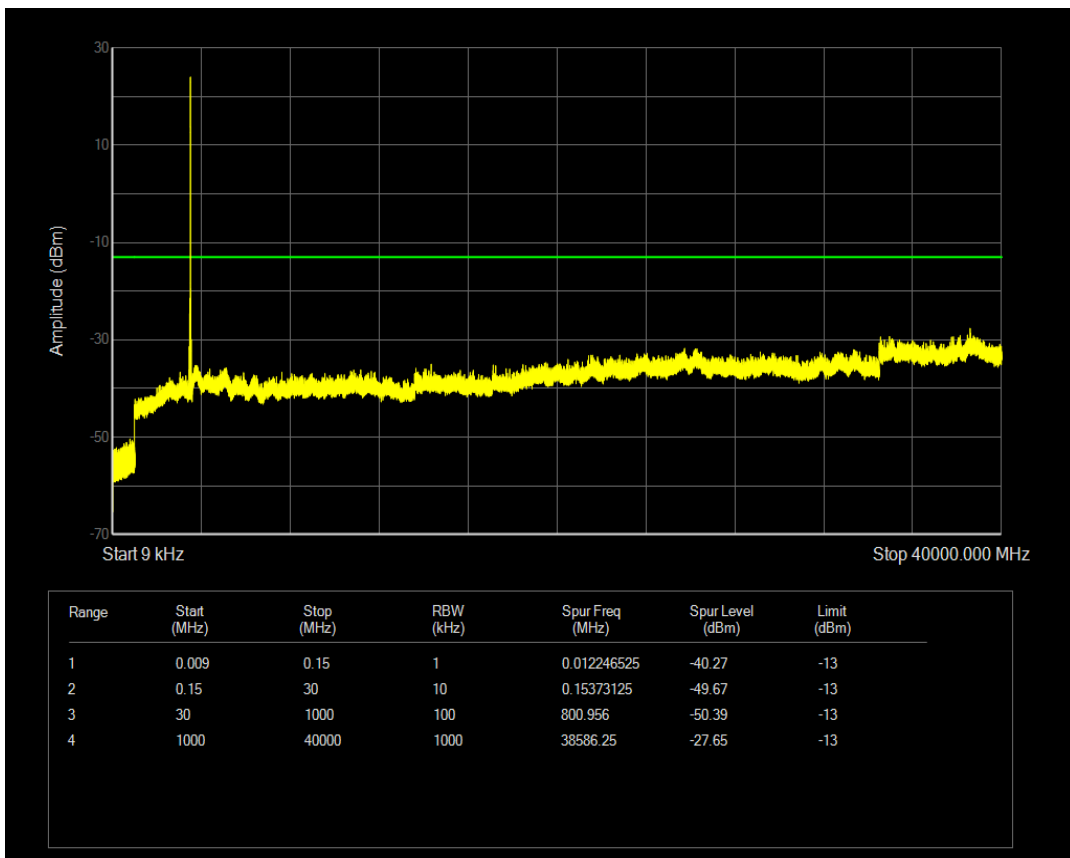
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



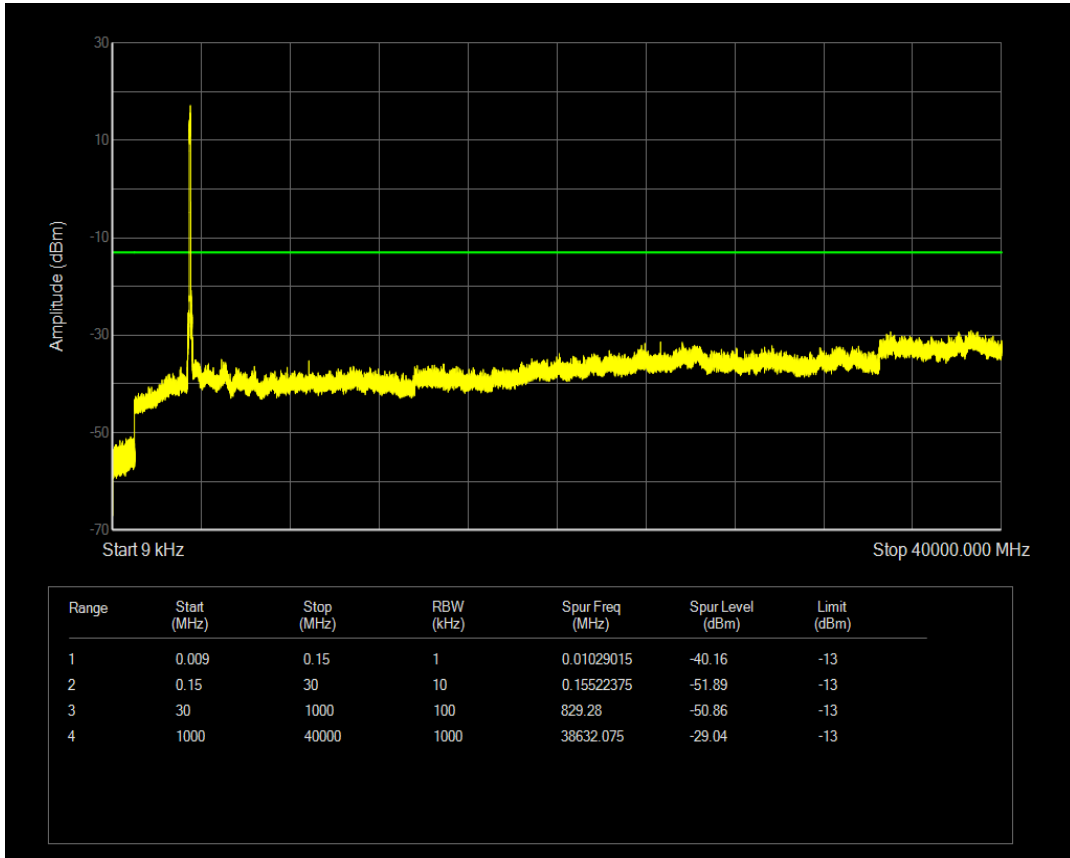
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@0



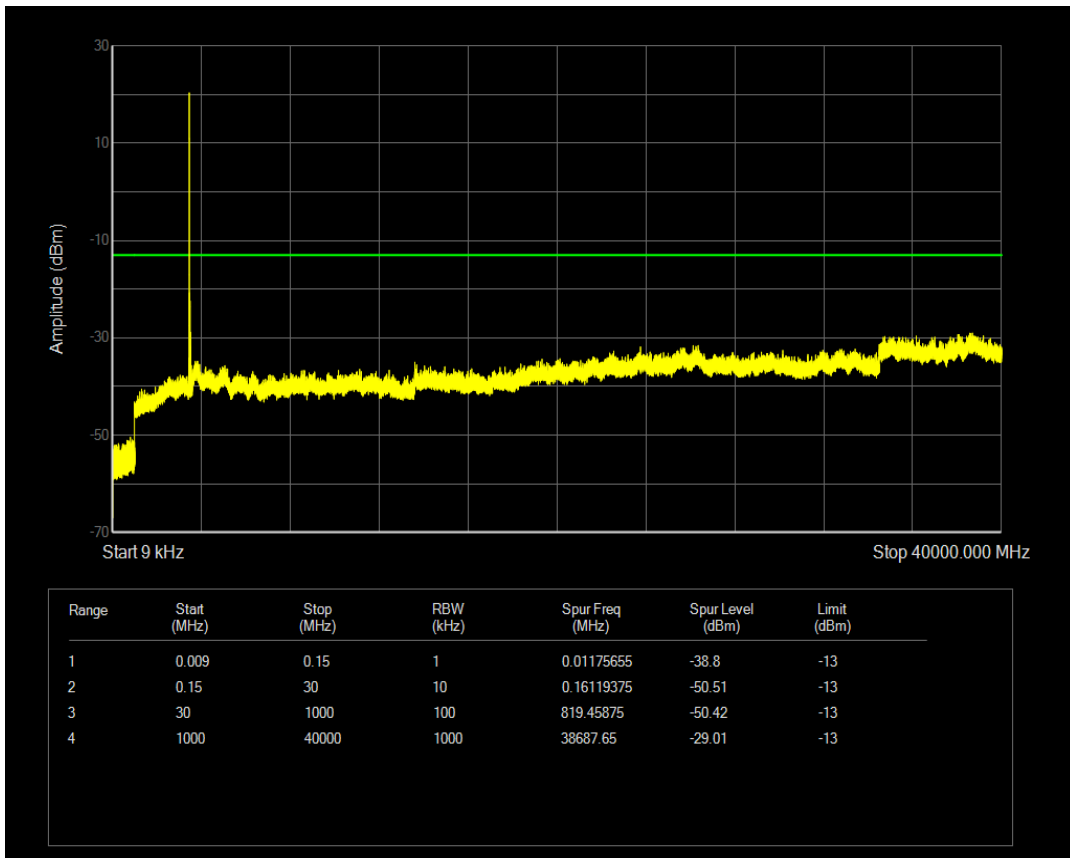
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@188



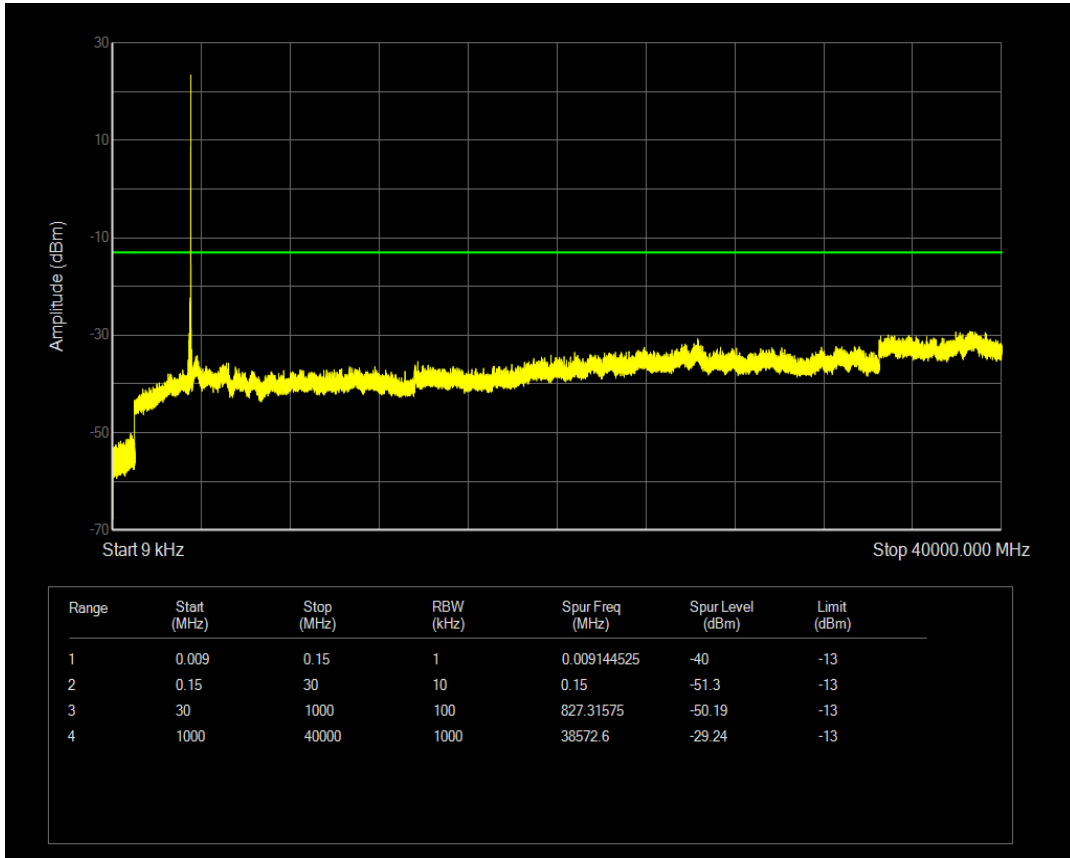
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



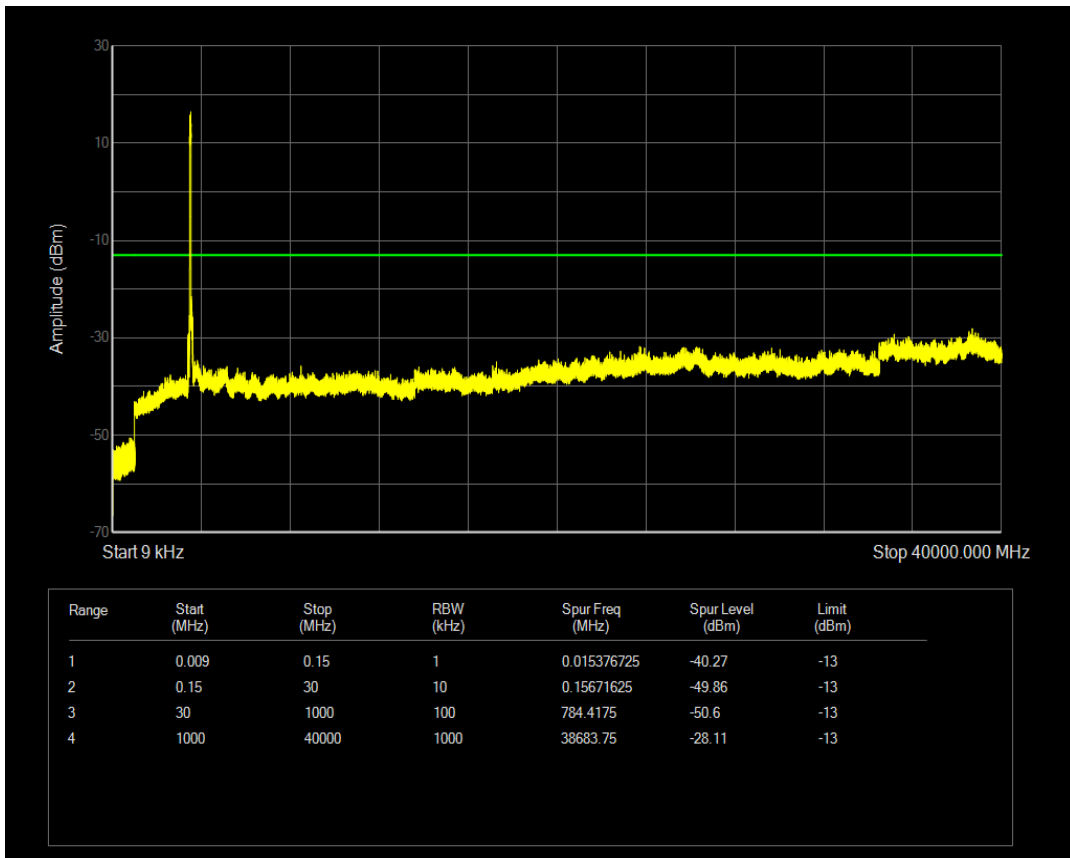
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=1@0



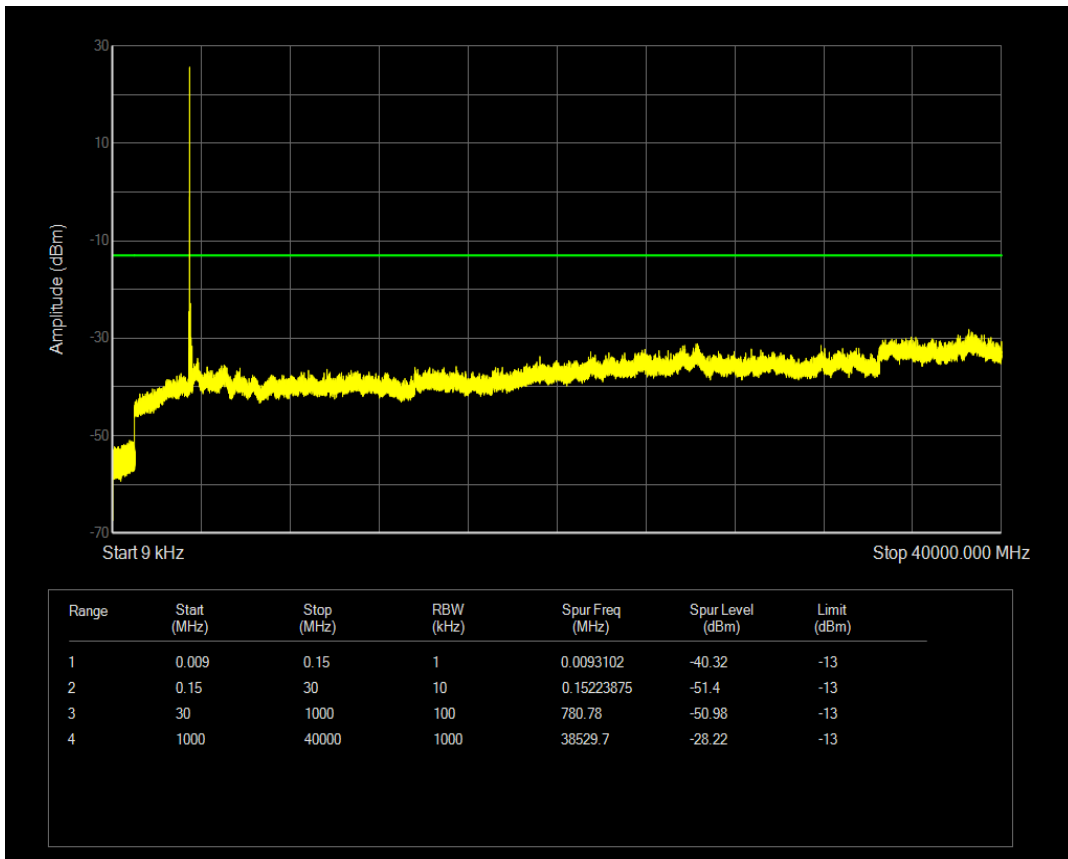
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=1@188



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=1@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=1@188

