

1 Conducted output power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
n78(3450-3550)	30	70	632334	90@45	DFT_BPSK	27.44	-0.3	27.14	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_BPSK	26.93	-0.3	26.63	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_BPSK	26.75	-0.3	26.45	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QPSK	27.38	-0.3	27.08	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QPSK	26.79	-0.3	26.49	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QPSK	26.58	-0.3	26.28	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QAM16	26.38	-0.3	26.08	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QAM16	26.04	-0.3	25.74	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QAM16	25.80	-0.3	25.50	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QAM64	24.82	-0.3	24.52	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QAM64	24.65	-0.3	24.35	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QAM64	24.32	-0.3	24.02	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QPSK	25.78	-0.3	25.48	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QPSK	25.28	-0.3	24.98	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QPSK	25.00	-0.3	24.70	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QAM16	25.44	-0.3	25.14	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QAM16	25.28	-0.3	24.98	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QAM16	25.05	-0.3	24.75	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QAM64	23.94	-0.3	23.64	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QAM64	23.18	-0.3	22.88	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QAM64	22.94	-0.3	22.64	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	27.24	-0.3	26.94	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_BPSK	26.71	-0.3	26.41	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_BPSK	27.05	-0.3	26.75	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	27.23	-0.3	26.93	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QPSK	26.52	-0.3	26.22	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QPSK	26.87	-0.3	26.57	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QAM16	26.13	-0.3	25.83	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QAM16	25.71	-0.3	25.41	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QAM16	26.09	-0.3	25.79	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QAM64	24.65	-0.3	24.35	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QAM64	24.31	-0.3	24.01	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QAM64	24.69	-0.3	24.39	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QPSK	25.56	-0.3	25.26	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QPSK	25.03	-0.3	24.73	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QPSK	25.35	-0.3	25.05	30	PASS

n78(3450-3550)	30	70	633334	95@47	CP_QAM16	25.21	-0.3	24.91	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QAM16	24.59	-0.3	24.29	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QAM16	24.91	-0.3	24.61	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QAM64	23.66	-0.3	23.36	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QAM64	23.10	-0.3	22.80	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QAM64	23.33	-0.3	23.03	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_BPSK	27.07	-0.3	26.77	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_BPSK	27.09	-0.3	26.79	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_BPSK	26.83	-0.3	26.53	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QPSK	27.04	-0.3	26.74	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QPSK	26.93	-0.3	26.63	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QPSK	26.75	-0.3	26.45	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QAM16	26.06	-0.3	25.76	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QAM16	26.18	-0.3	25.88	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QAM16	25.95	-0.3	25.65	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QAM64	24.56	-0.3	24.26	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QAM64	24.74	-0.3	24.44	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QAM64	24.54	-0.3	24.24	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QPSK	25.49	-0.3	25.19	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QPSK	25.50	-0.3	25.20	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QPSK	25.22	-0.3	24.92	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QAM16	25.05	-0.3	24.75	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QAM16	25.26	-0.3	24.96	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QAM16	25.06	-0.3	24.76	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QAM64	23.65	-0.3	23.35	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QAM64	23.46	-0.3	23.16	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QAM64	23.16	-0.3	22.86	30	PASS

2 Frequency stability for NR FR1

NT:

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	3.87	-19.54	-0.01	Within authorized band for 5G NR n78	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_BPSK	3.45	-33.13	-0.01		PASS
n78(3450-3550)	30	70	633334	1@187	DFT_BPSK	4.45	-30.27	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	3.87	-27.81	-0.01		PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QPSK	3.45	-21.57	-0.01		PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QPSK	4.45	-27.09	-0.01		PASS

Note: Only the worst case shown in the report.

NV:

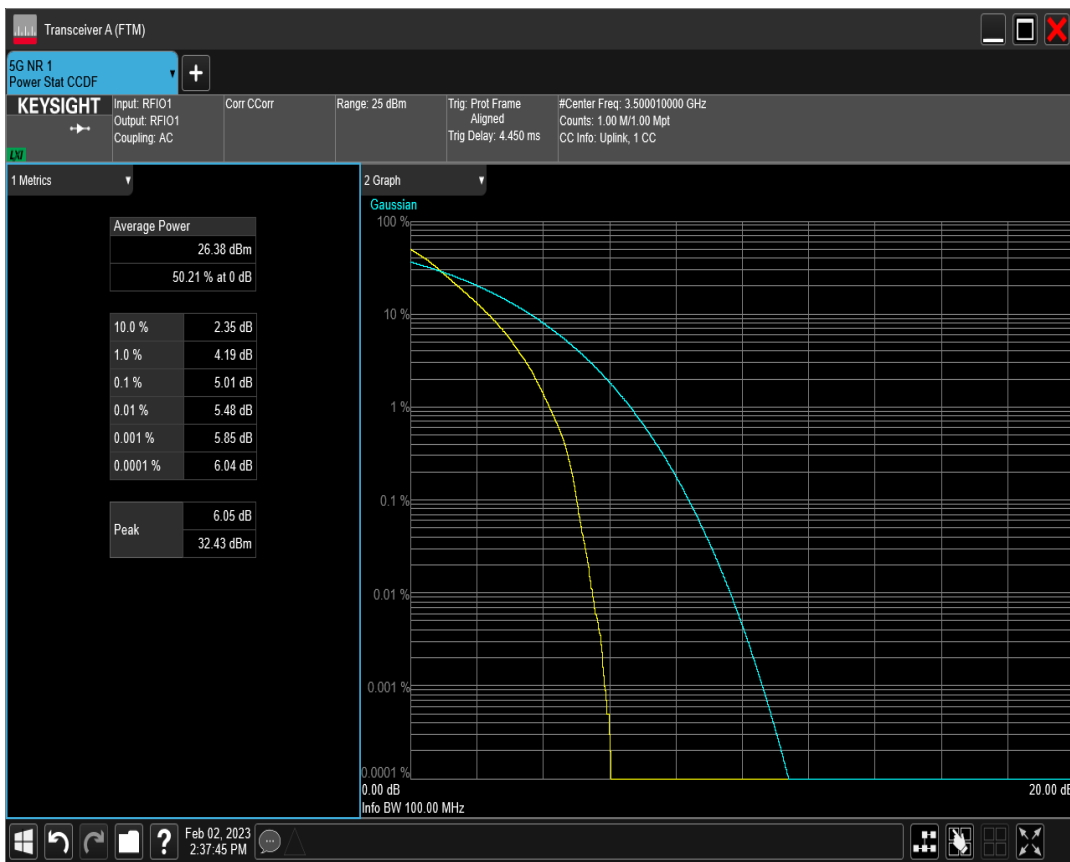
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-30	-15.85	0.00	Within authorized band for 5G NR n78	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-20	-13.57	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-10	-15.53	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	0	-13.14	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	10	-12.29	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	20	-14.74	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	30	-18.62	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	40	-15.85	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	50	-13.09	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-30	-13.11	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-20	-15.96	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-10	-15.70	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	0	-13.79	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	10	-18.18	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	20	-12.74	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	30	-16.50	0.00		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	40	-13.51	0.00	PASS	
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	50	-17.46	0.00	PASS	

Note: Only the worst case shown in the report.

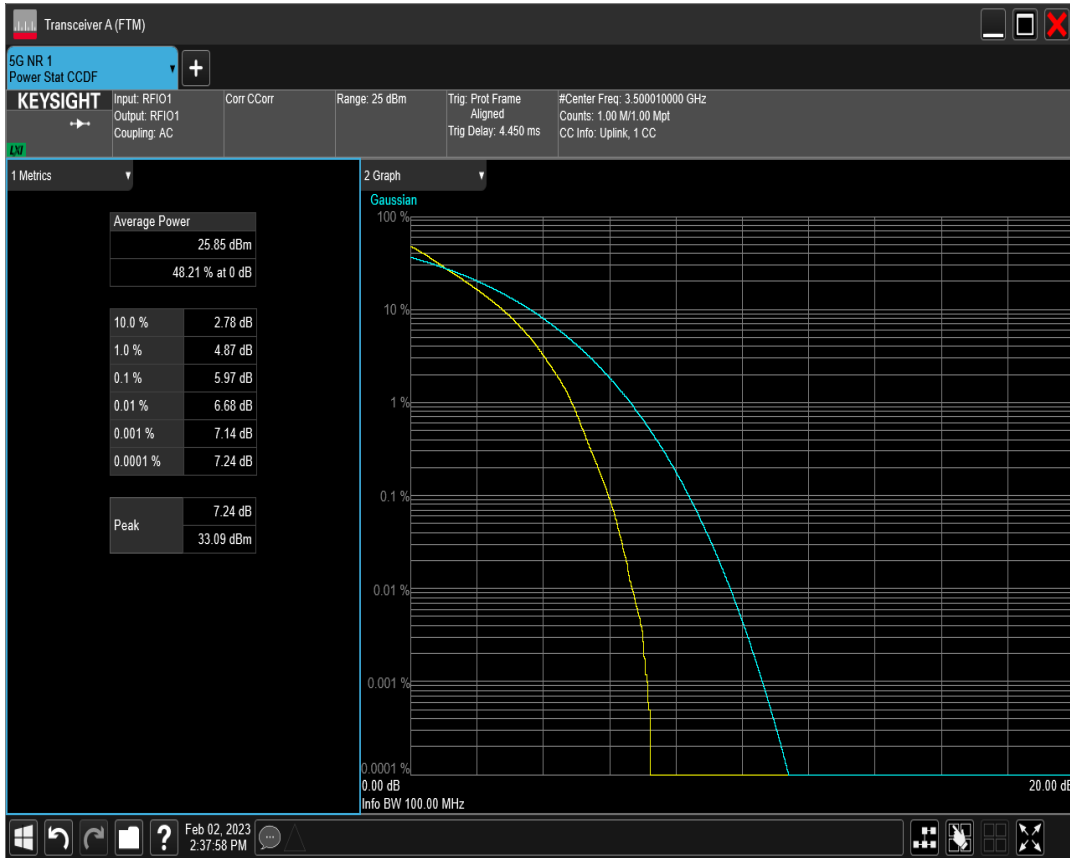
3 Peak-to-Average Ratio for NR FR1

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	5.01	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	5.97	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM16	6.69	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM64	6.86	13	PASS

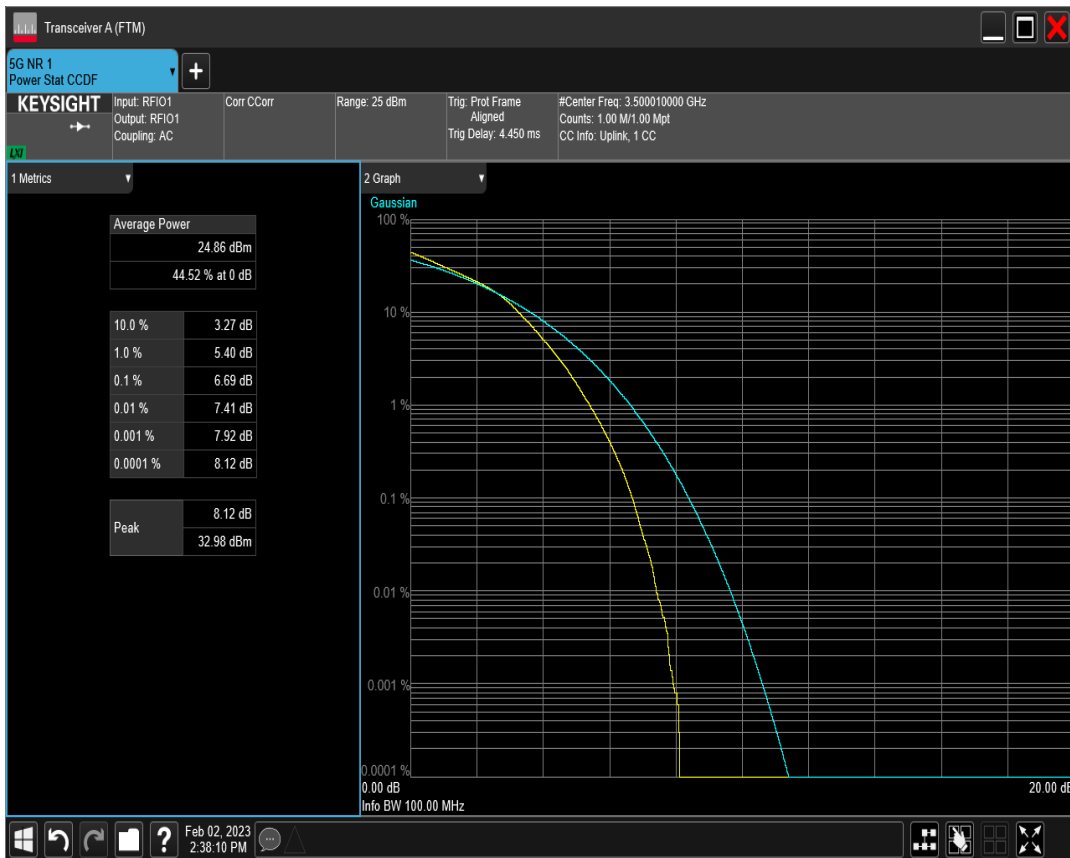
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=633334 RB=180@0



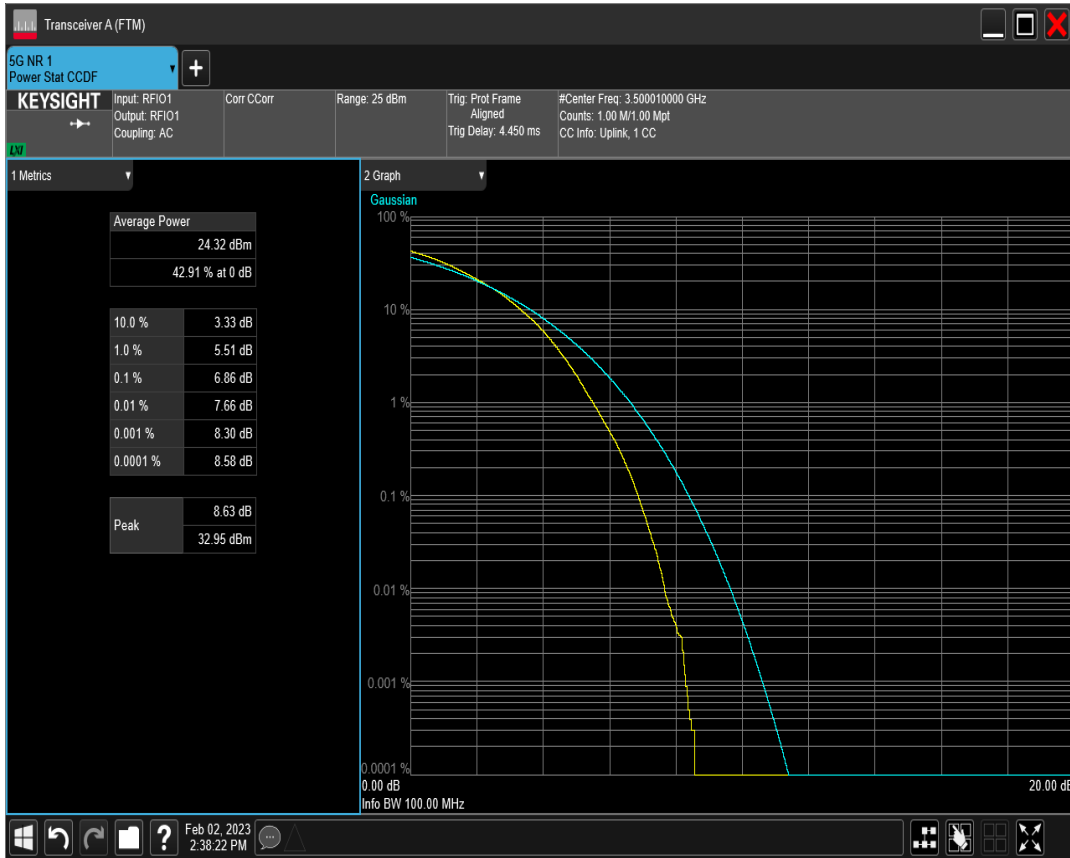
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



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



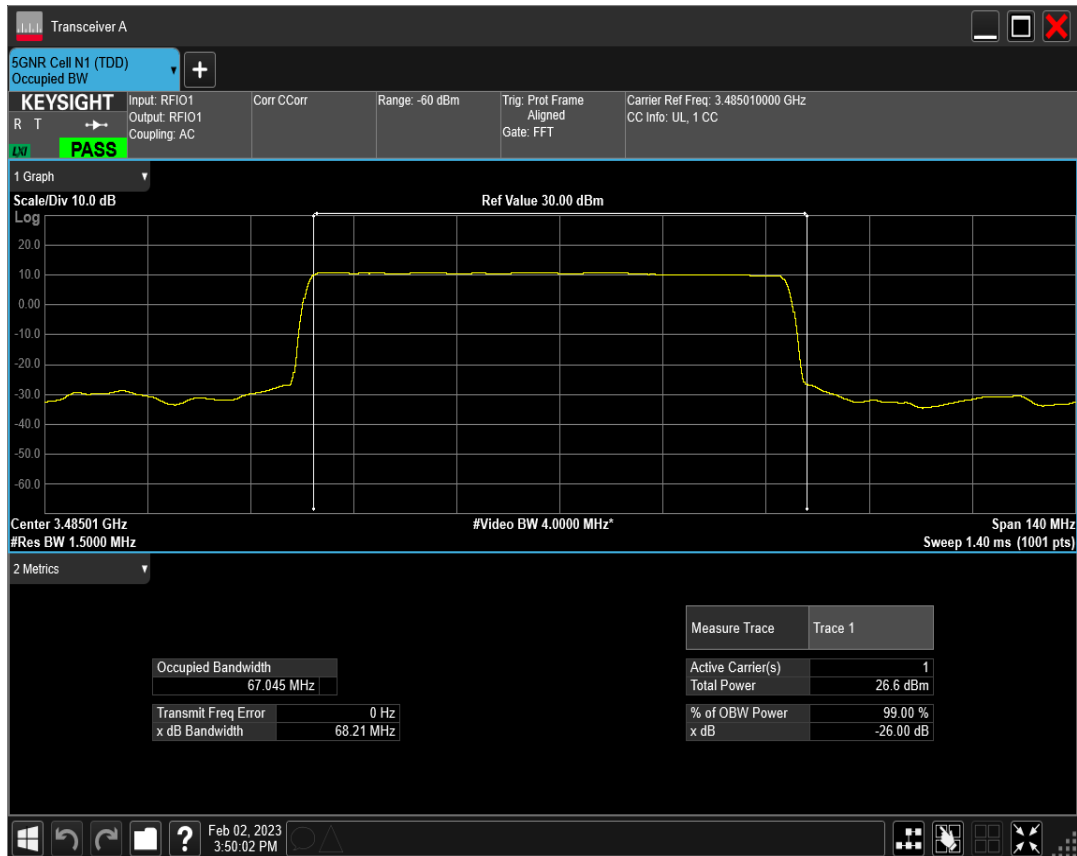
n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=633334 RB=180@0



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	67.040	68.210	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	67.020	68.170	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QAM16	66.990	68.190	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QAM64	67.020	68.190	PASS
n78(3450-3550)	30	70	632334	189@0	CP_QPSK	67.800	71.450	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_BPSK	67.030	68.160	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	67.050	68.200	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM16	67.020	68.140	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM64	67.000	68.180	PASS
n78(3450-3550)	30	70	633334	189@0	CP_QPSK	67.800	71.440	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_BPSK	67.220	68.210	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	67.050	68.180	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QAM16	67.020	68.180	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QAM64	67.020	68.160	PASS
n78(3450-3550)	30	70	634332	189@0	CP_QPSK	67.810	71.440	PASS

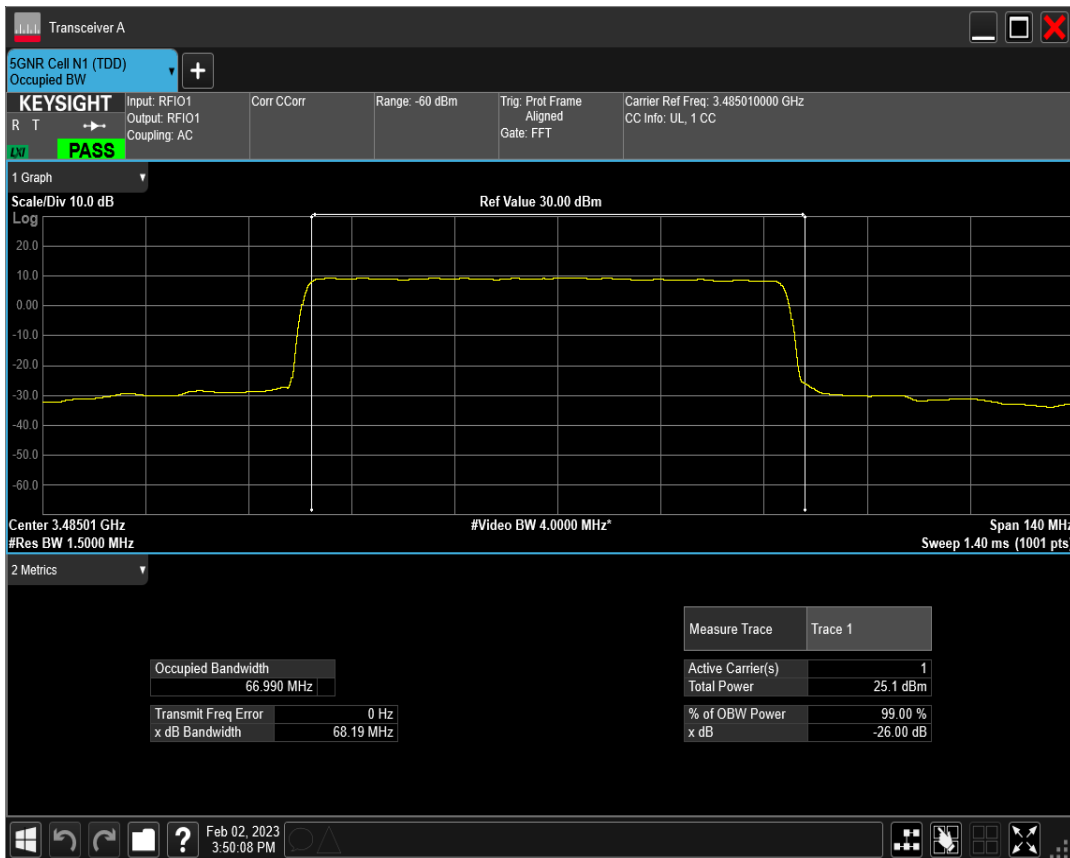
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=632334 RB=180@0



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



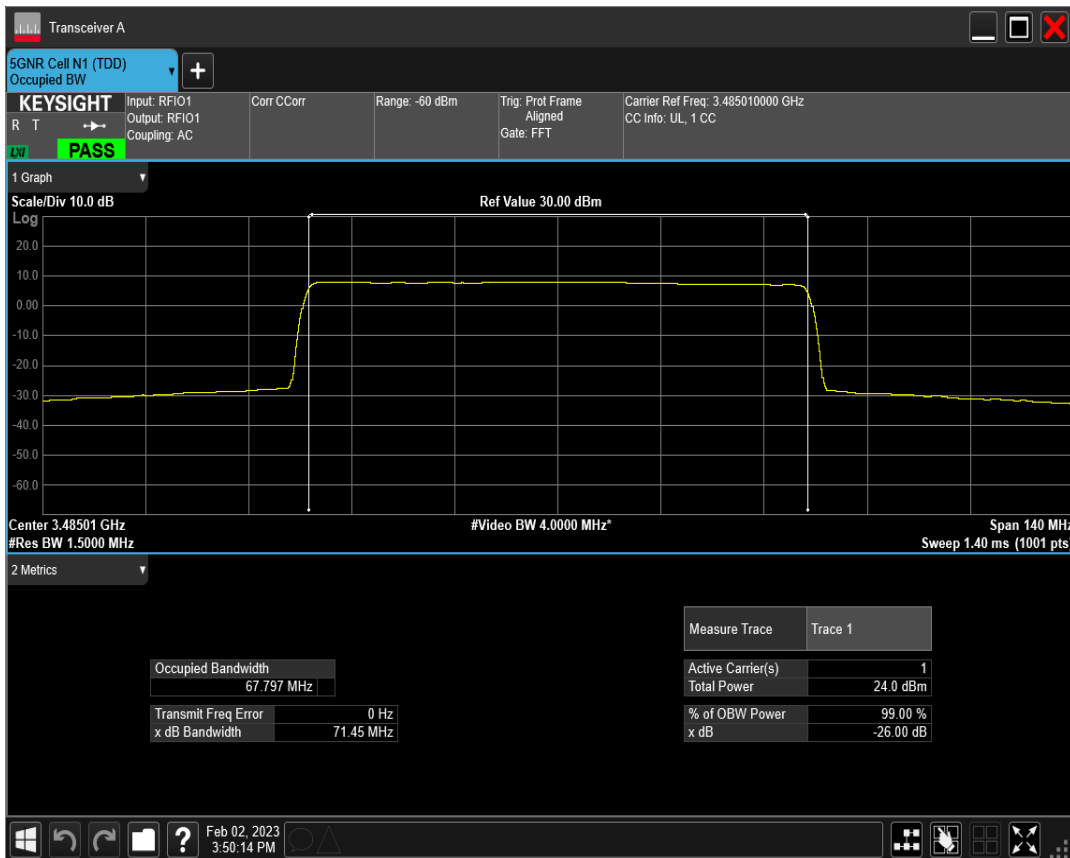
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=632334 RB=180@0



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



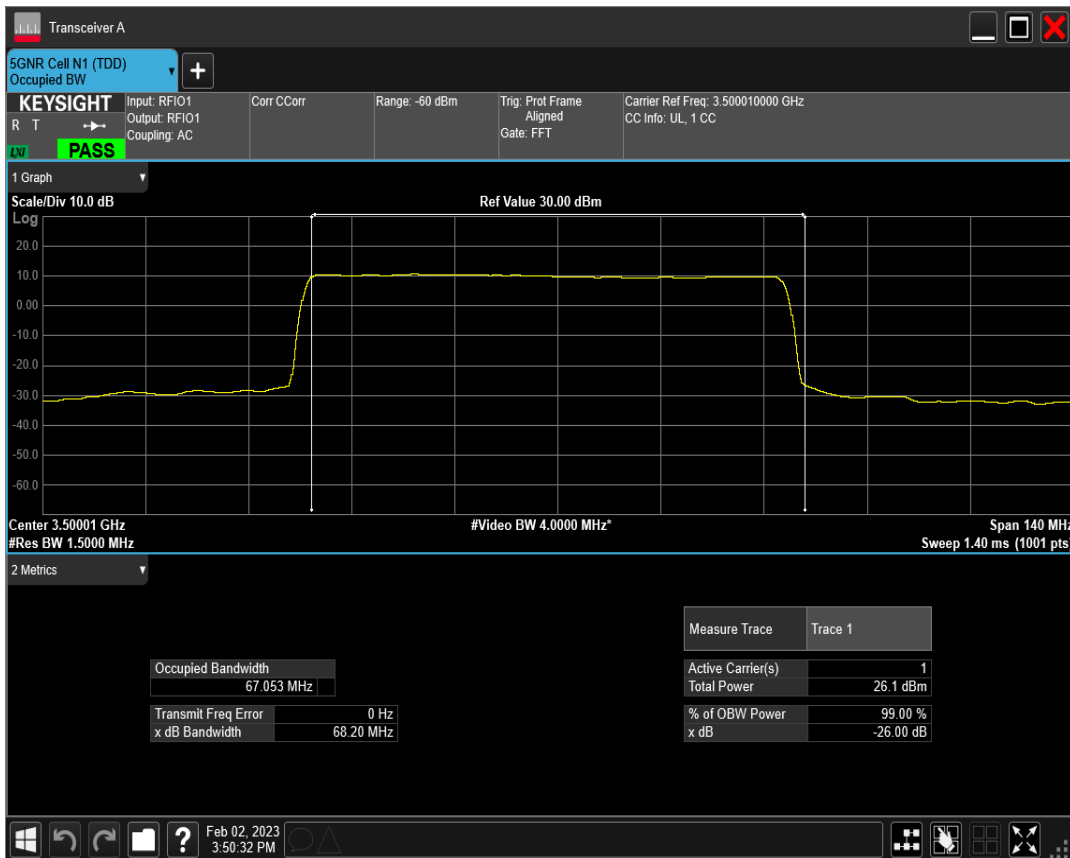
n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=632334 RB=189@0



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



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



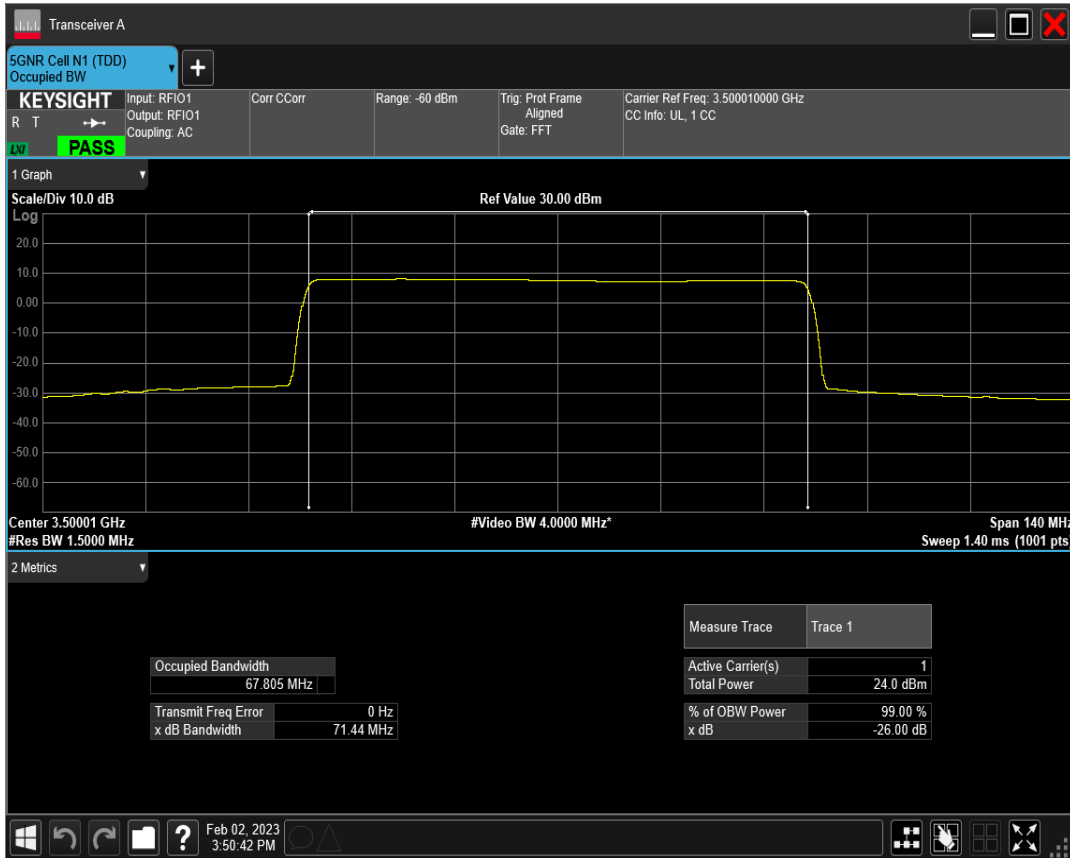
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=633334 RB=180@0



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



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



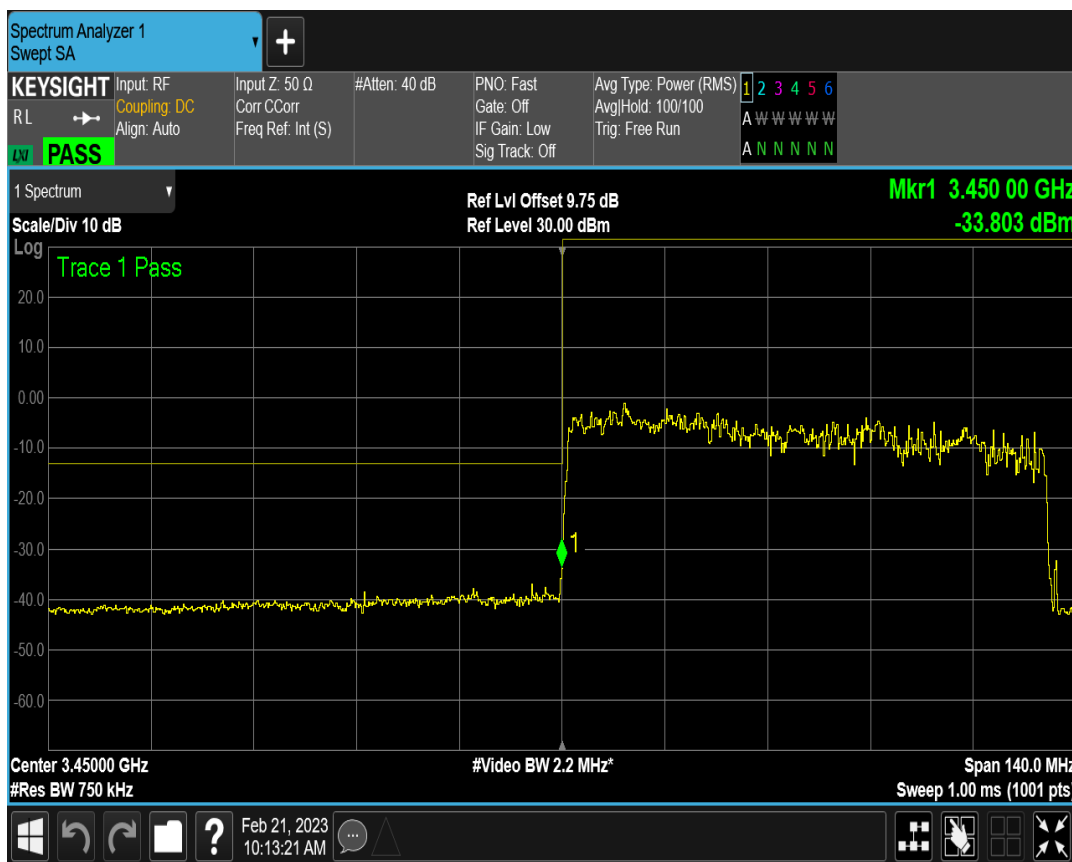
n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=634332 RB=189@0



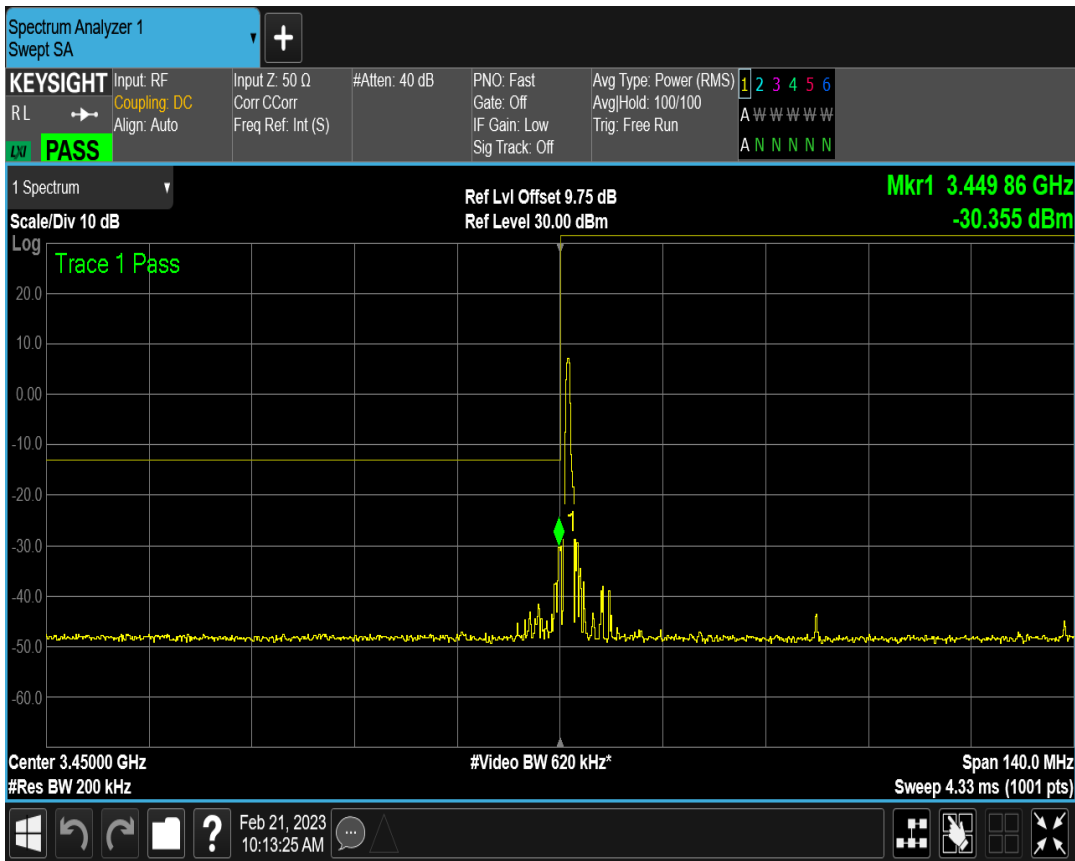
5 Band edge for NR FR1

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	-33.80	-13	PASS
n78(3450-3550)	30	70	632334	1@0	DFT_QPSK	3449.86	-30.35	-13	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	3604.60	-37.55	-13	PASS
n78(3450-3550)	30	70	634332	1@188	DFT_QPSK	3550.00	-27.22	-13	PASS

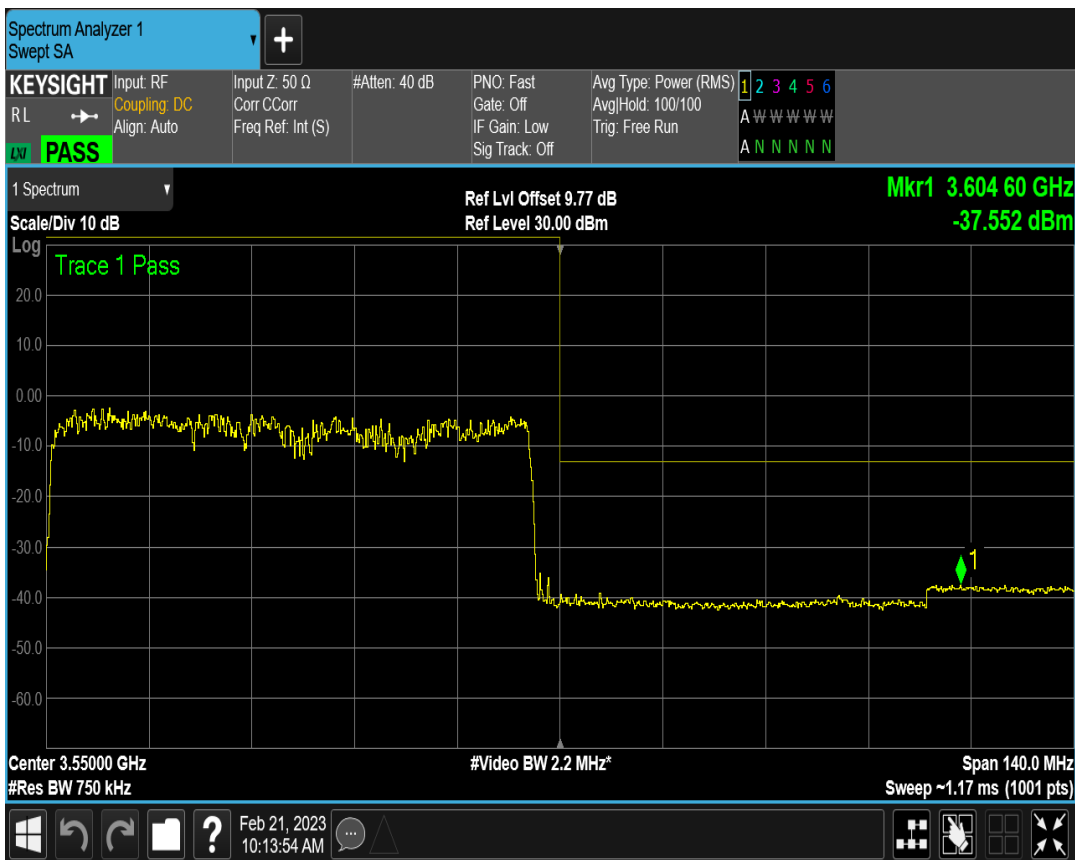
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



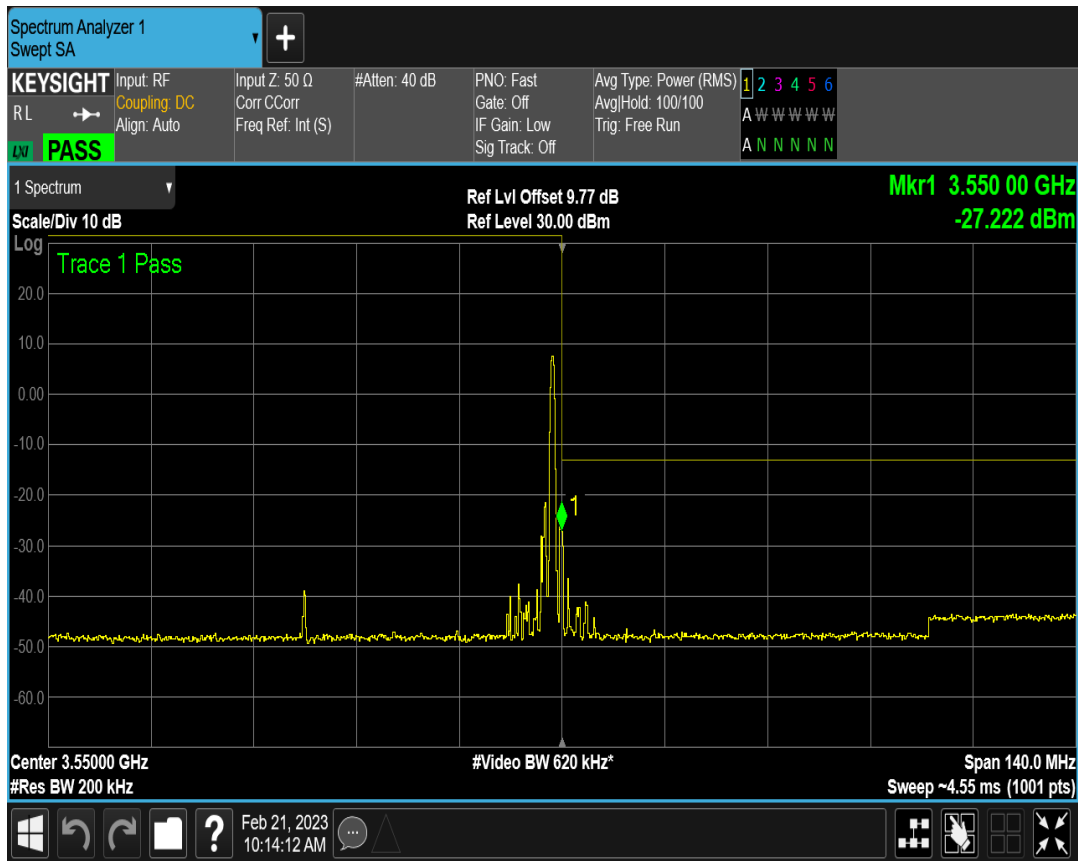
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@0



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



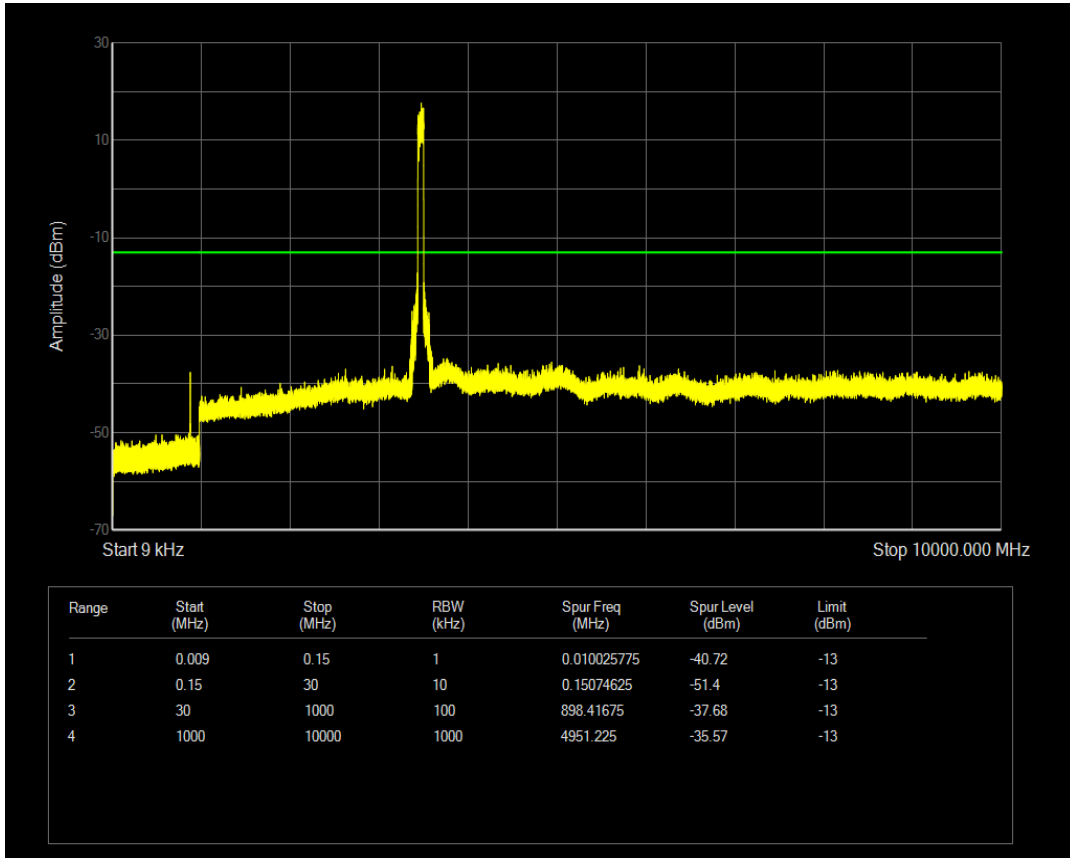
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=1@188



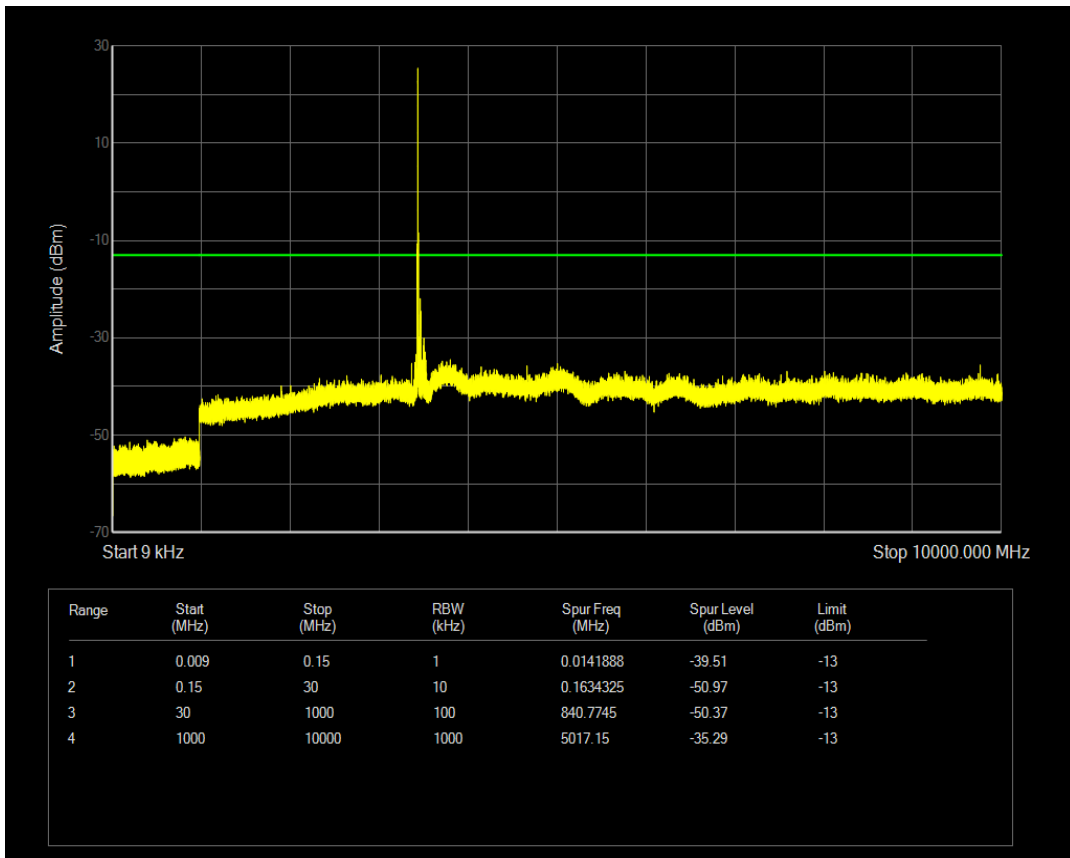
6 Out-of-band emissions for NR FR1

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	4951.23	-35.57	-13	PASS
n78(3450-3550)	30	70	632334	1@0	DFT_QPSK	5017.15	-35.29	-13	PASS
n78(3450-3550)	30	70	632334	1@188	DFT_QPSK	5102.65	-35.12	-13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	3855.25	-34.94	-13	PASS
n78(3450-3550)	30	70	633334	1@0	DFT_QPSK	5095.90	-35.47	-13	PASS
n78(3450-3550)	30	70	633334	1@188	DFT_QPSK	5114.80	-35.17	-13	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	4839.40	-34.93	-13	PASS
n78(3450-3550)	30	70	634332	1@0	DFT_QPSK	3837.48	-35.41	-13	PASS
n78(3450-3550)	30	70	634332	1@188	DFT_QPSK	3839.73	-35.54	-13	PASS

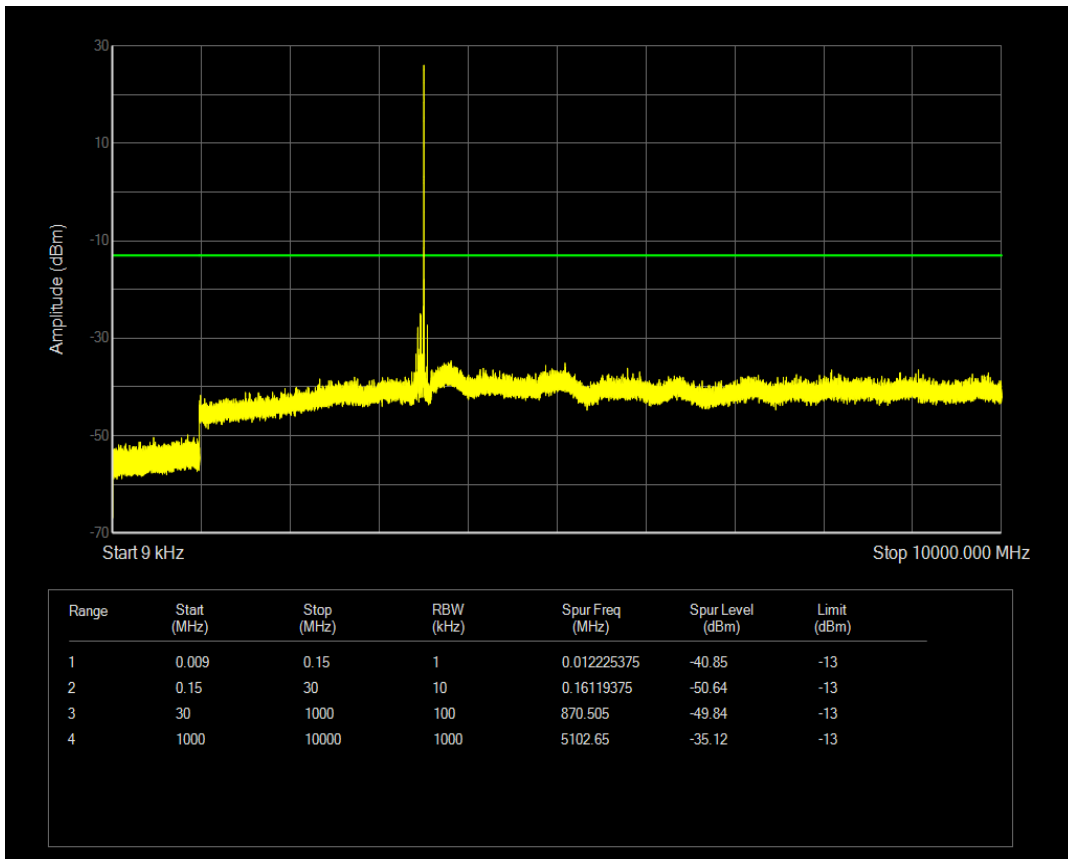
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



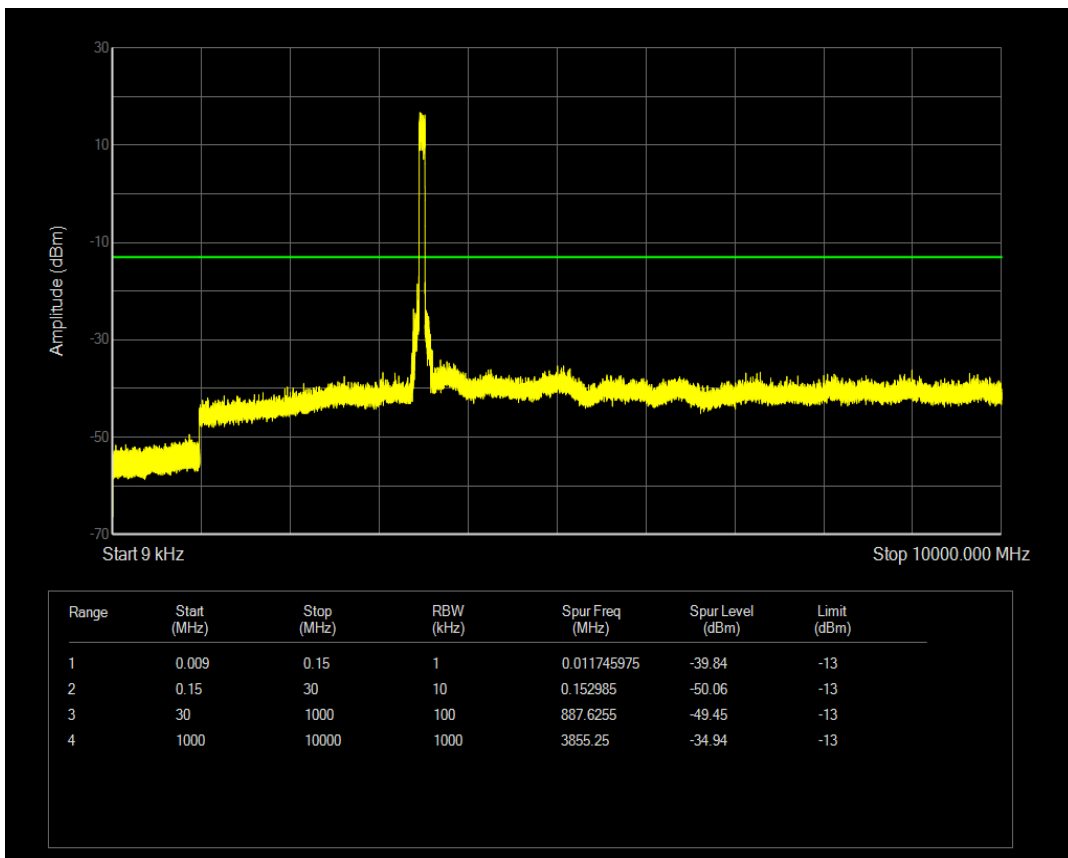
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@0



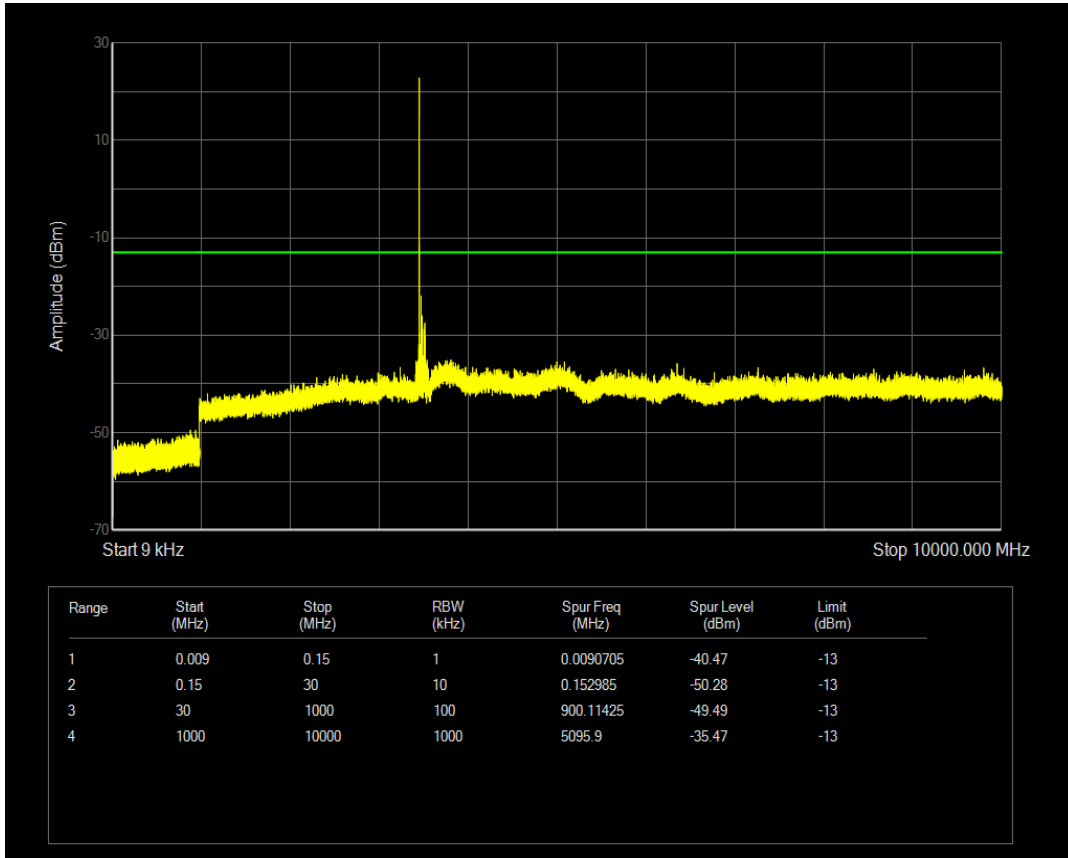
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@188



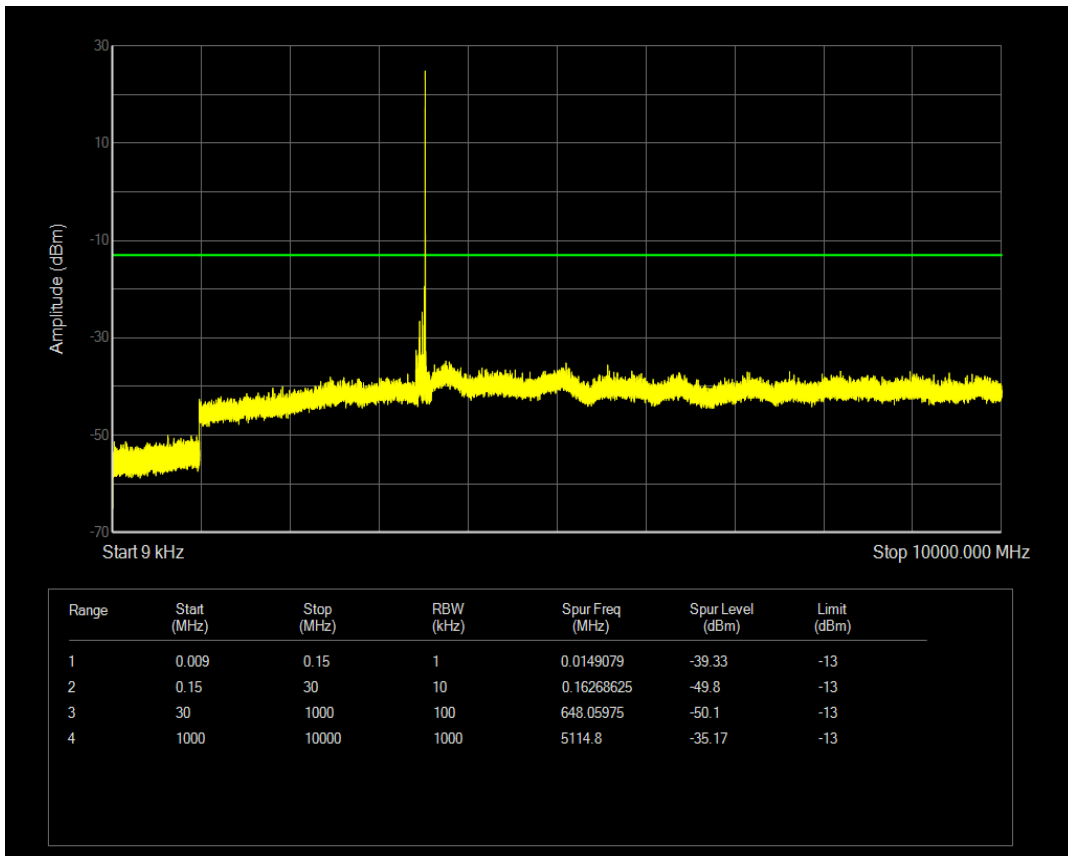
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



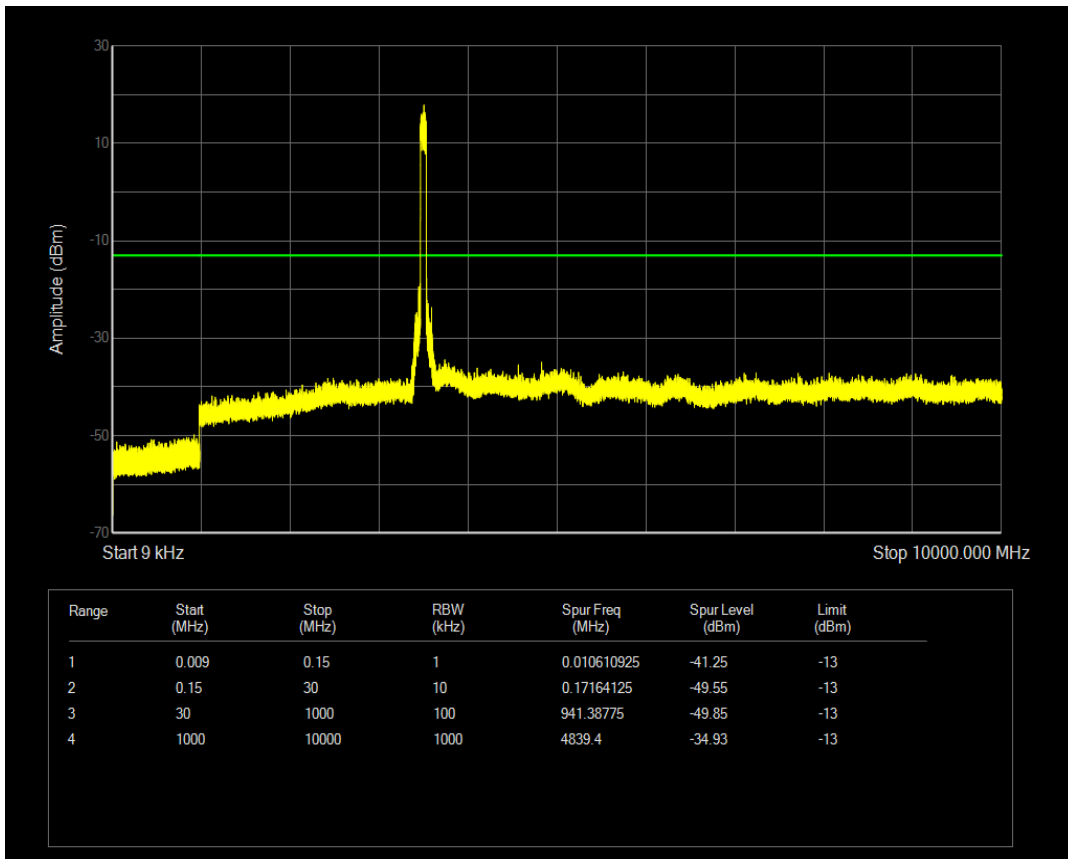
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=1@0



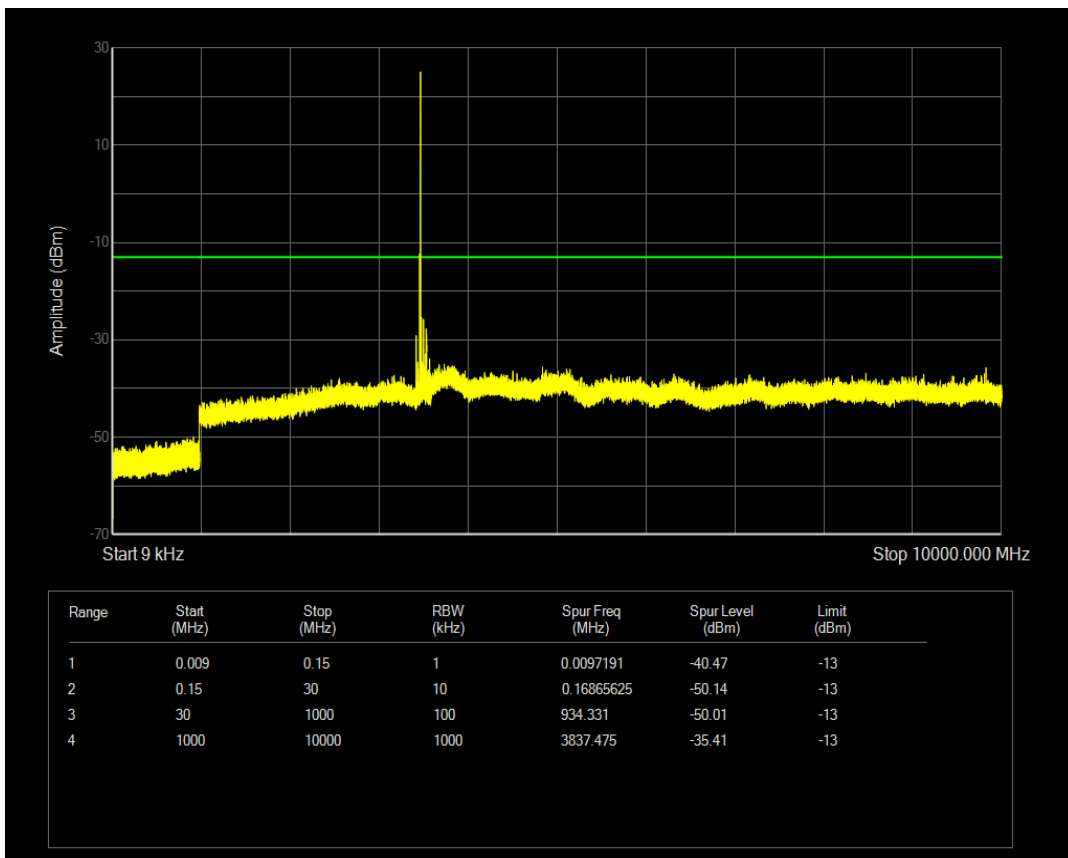
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=1@188



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

