

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(3700-3800)	30	70	649000	90@45	DFT_BPSK	25.68	-2.3	23.38	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_BPSK	24.96	-2.3	22.66	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_BPSK	25.02	-2.3	22.72	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QPSK	25.60	-2.3	23.3	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QPSK	24.93	-2.3	22.63	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QPSK	24.87	-2.3	22.57	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM16	24.61	-2.3	22.31	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM16	24.09	-2.3	21.79	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM16	24.12	-2.3	21.82	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM64	23.18	-2.3	20.88	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM64	22.28	-2.3	19.98	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM64	22.41	-2.3	20.11	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QPSK	24.14	-2.3	21.84	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QPSK	23.48	-2.3	21.18	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QPSK	23.48	-2.3	21.18	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM16	23.65	-2.3	21.35	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM16	22.79	-2.3	20.49	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM16	23.13	-2.3	20.83	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM64	22.00	-2.3	19.7	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM64	21.38	-2.3	19.08	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM64	21.80	-2.3	19.5	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	25.56	-2.3	23.26	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	24.95	-2.3	22.65	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	24.89	-2.3	22.59	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	25.57	-2.3	23.27	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	24.86	-2.3	22.56	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	24.77	-2.3	22.47	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM16	24.61	-2.3	22.31	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM16	24.09	-2.3	21.79	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM16	23.73	-2.3	21.43	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM64	23.12	-2.3	20.82	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM64	22.17	-2.3	19.87	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM64	22.20	-2.3	19.9	30	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QPSK	24.05	-2.3	21.75	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QPSK	23.62	-2.3	21.32	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QPSK	23.53	-2.3	21.23	30	PASS

n78(3700-3800)	30	70	650000	95@47	CP_QAM16	23.62	-2.3	21.32	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM16	22.88	-2.3	20.58	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM16	22.83	-2.3	20.53	30	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM64	22.01	-2.3	19.71	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM64	21.53	-2.3	19.23	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM64	21.38	-2.3	19.08	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_BPSK	25.48	-2.3	23.18	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_BPSK	25.07	-2.3	22.77	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_BPSK	24.97	-2.3	22.67	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QPSK	25.56	-2.3	23.26	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QPSK	24.92	-2.3	22.62	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QPSK	24.83	-2.3	22.53	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM16	24.60	-2.3	22.3	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM16	24.13	-2.3	21.83	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM16	24.08	-2.3	21.78	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM64	23.10	-2.3	20.8	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM64	22.34	-2.3	20.04	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM64	22.28	-2.3	19.98	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QPSK	23.96	-2.3	21.66	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QPSK	23.56	-2.3	21.26	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QPSK	23.43	-2.3	21.13	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM16	23.48	-2.3	21.18	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM16	22.86	-2.3	20.56	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM16	22.78	-2.3	20.48	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM64	21.99	-2.3	19.69	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM64	21.46	-2.3	19.16	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM64	21.42	-2.3	19.12	30	PASS

2 Frequency stability for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-14.86	-0.01	-2.5	2.5	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	-16.34	-0.01	-2.5	2.5	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	-20.50	-0.01	-2.5	2.5	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-17.56	-0.01	-2.5	2.5	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	-16.78	-0.01	-2.5	2.5	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	-13.77	-0.01	-2.5	2.5	PASS

NV:

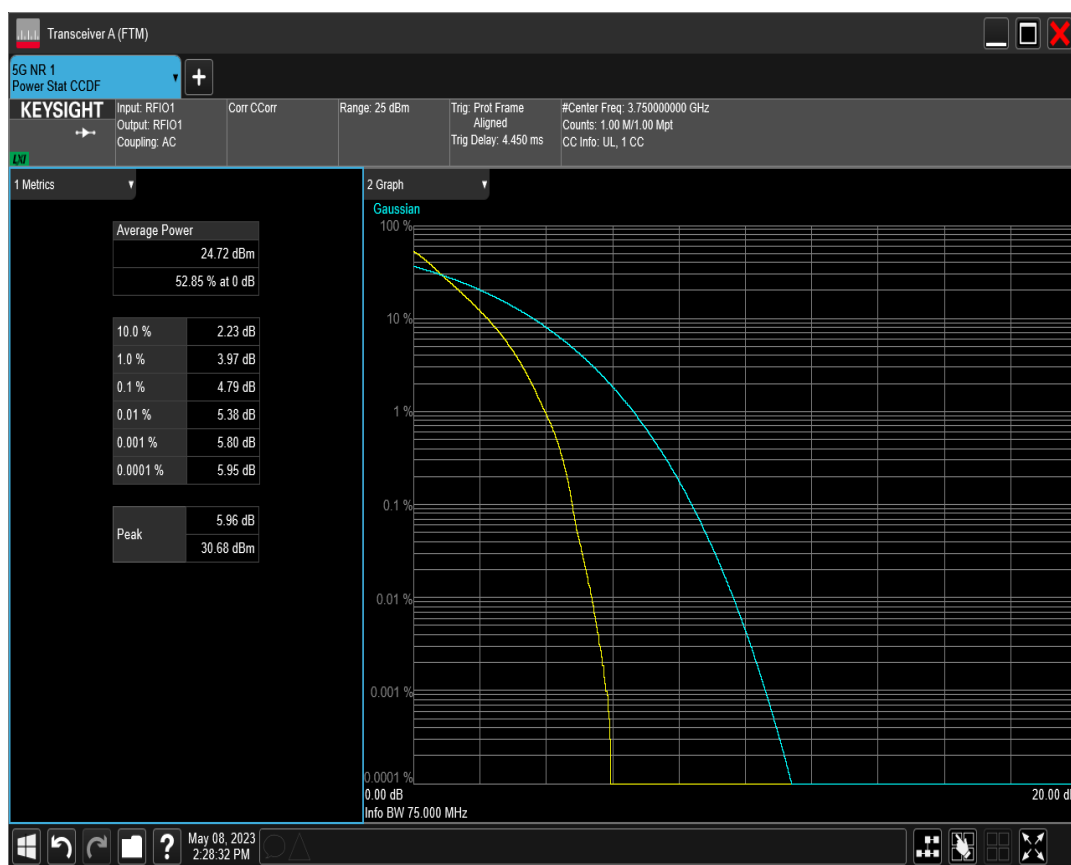
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-30	-14.59	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-20	-16.15	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-10	-20.41	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	0	-17.08	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	10	-16.66	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	20	-13.54	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	30	-14.14	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	40	-15.71	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	50	-19.98	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-30	-17.19	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-20	-16.38	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-10	-13.06	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	0	-14.37	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	10	-15.76	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	20	-20.16	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	30	-17.37	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	40	-16.25	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	50	-13.34	-0.01		PASS

Note: Only the worst case shown in the report.

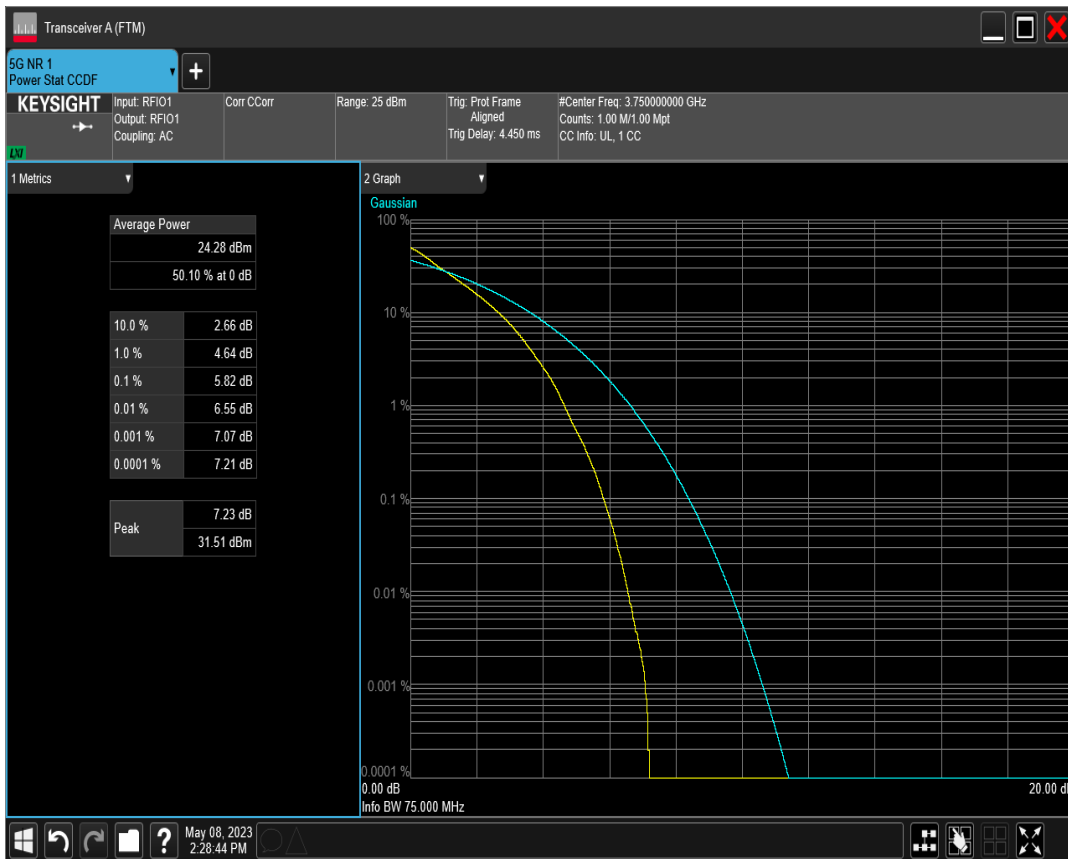
3 Peak-to-Average Ratio for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n78(3700-3800)	30	70	650000	180@0	DFT_BPSK	4.79	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	5.82	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	6.55	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	6.72	13	PASS

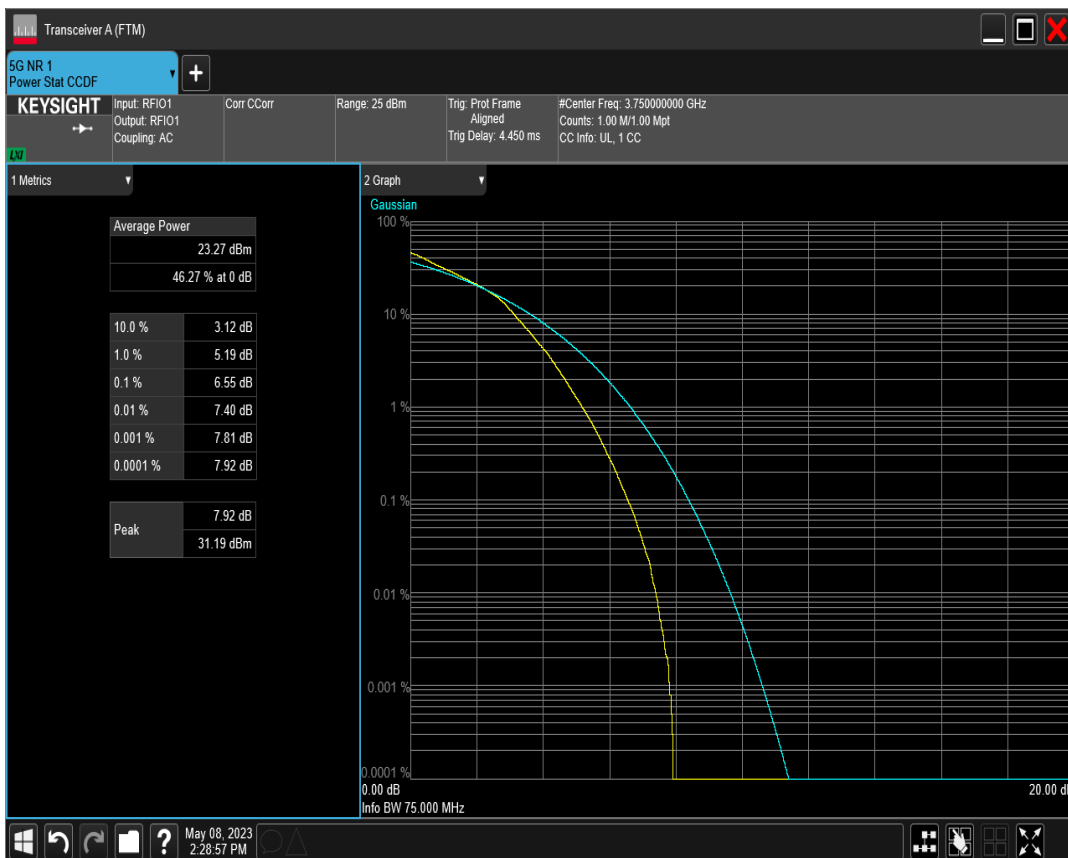
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



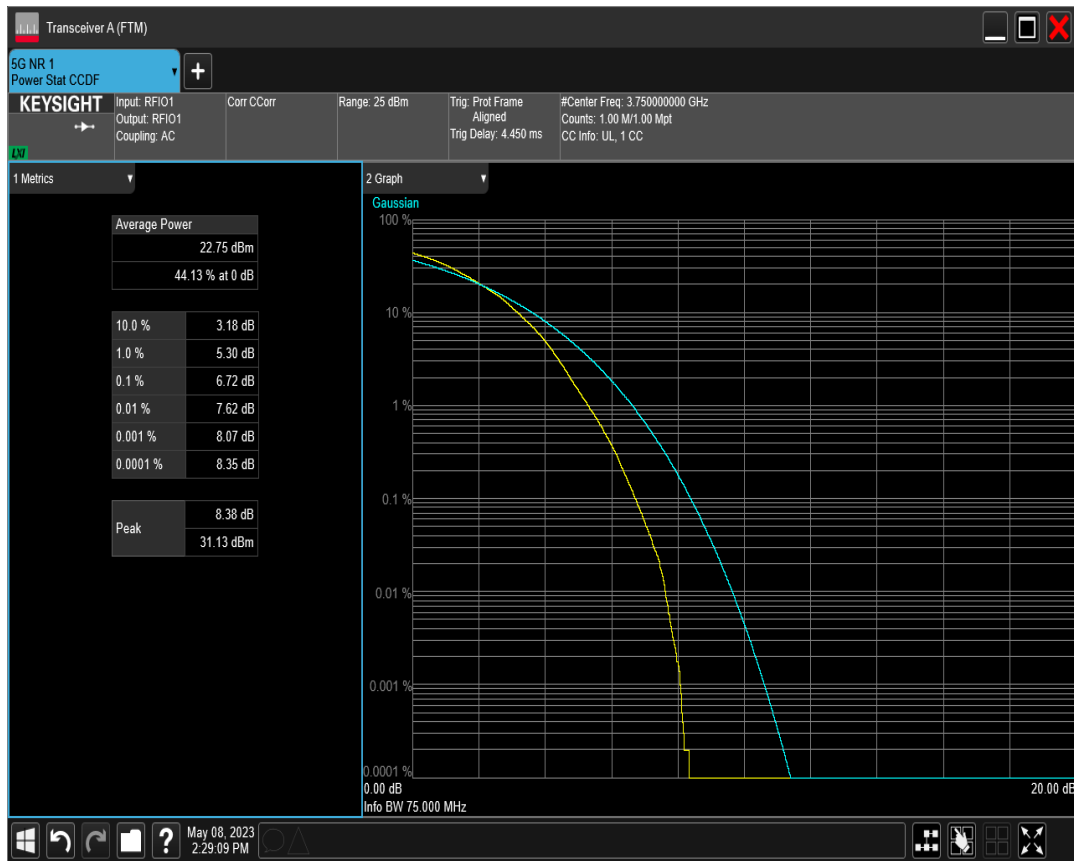
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=650000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=650000 RB=180@0



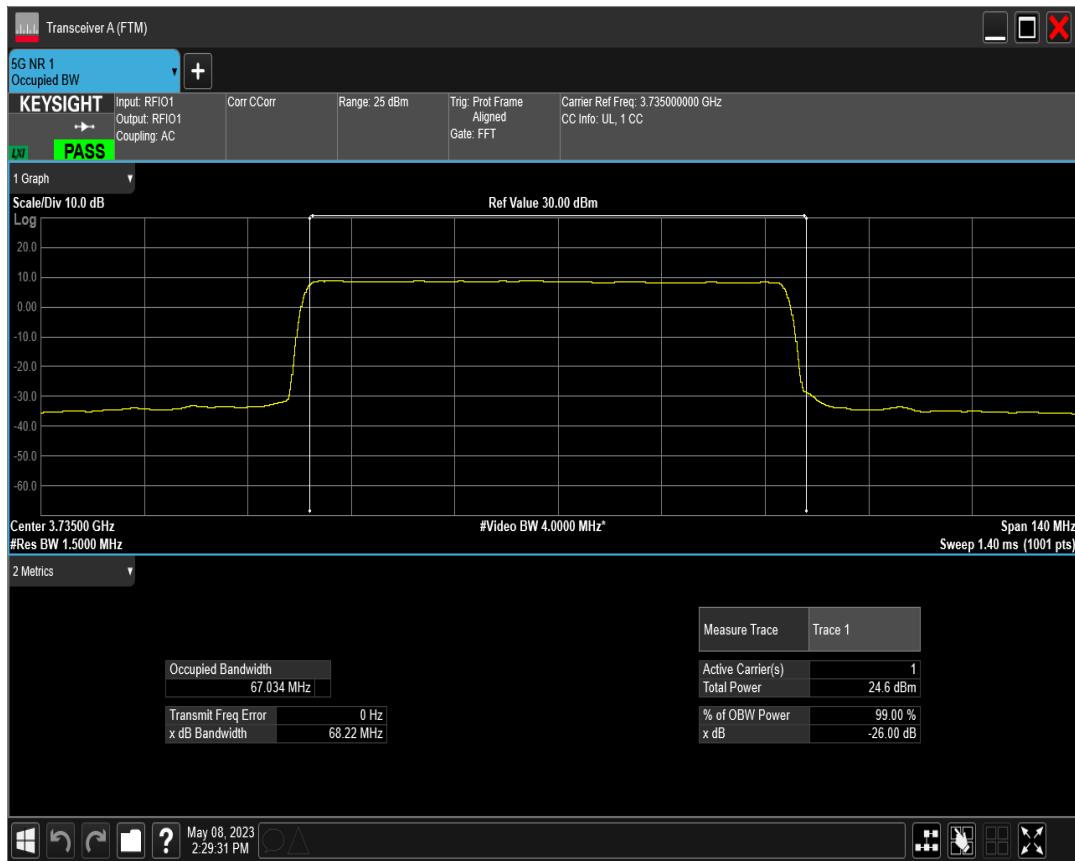
4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n78(3700-3800)	30	70	649000	180@0	DFT_BPSK	67.020	68.210	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	67.030	68.220	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM16	67.050	68.170	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM64	67.020	68.170	PASS
n78(3700-3800)	30	70	649000	189@0	CP_QPSK	67.810	71.440	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_BPSK	67.030	68.190	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	67.210	68.120	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	66.990	68.150	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	67.020	68.180	PASS
n78(3700-3800)	30	70	650000	189@0	CP_QPSK	67.810	71.430	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_BPSK	67.060	68.200	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	67.210	68.220	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM16	67.220	68.160	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM64	67.050	68.170	PASS
n78(3700-3800)	30	70	651000	189@0	CP_QPSK	67.820	71.440	PASS

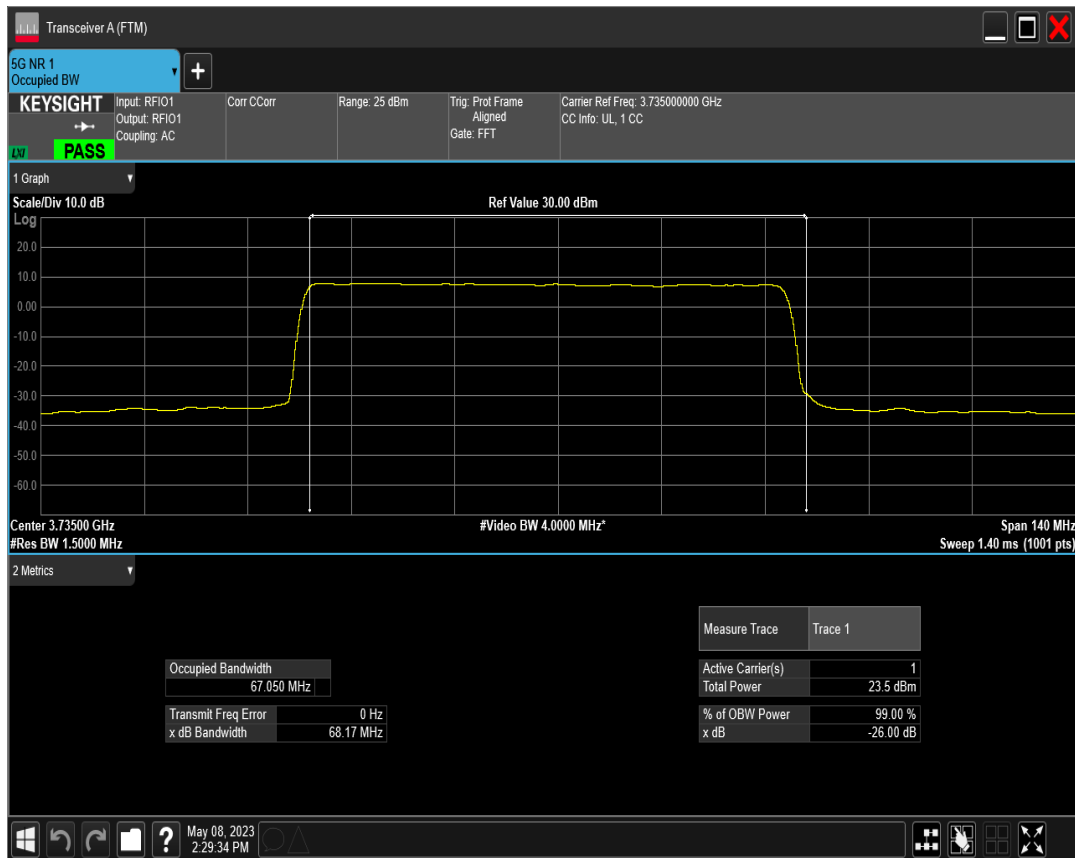
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=649000 RB=180@0



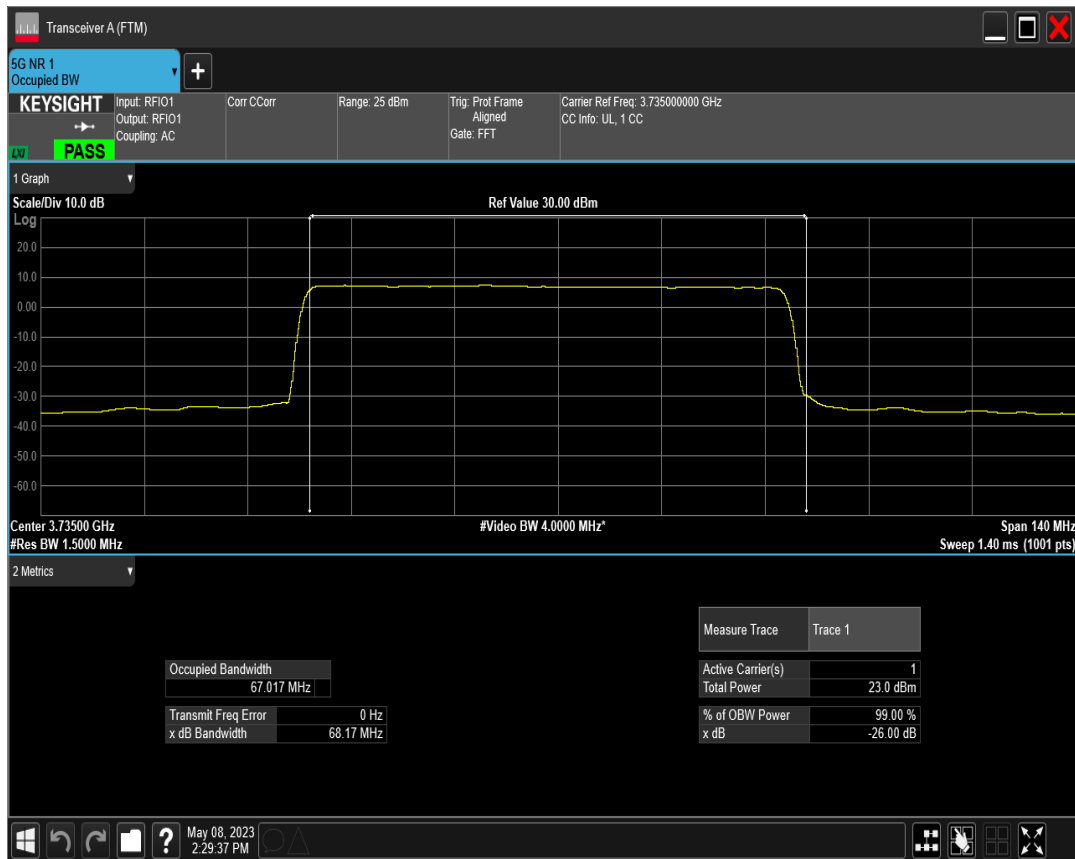
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=649000 RB=180@0



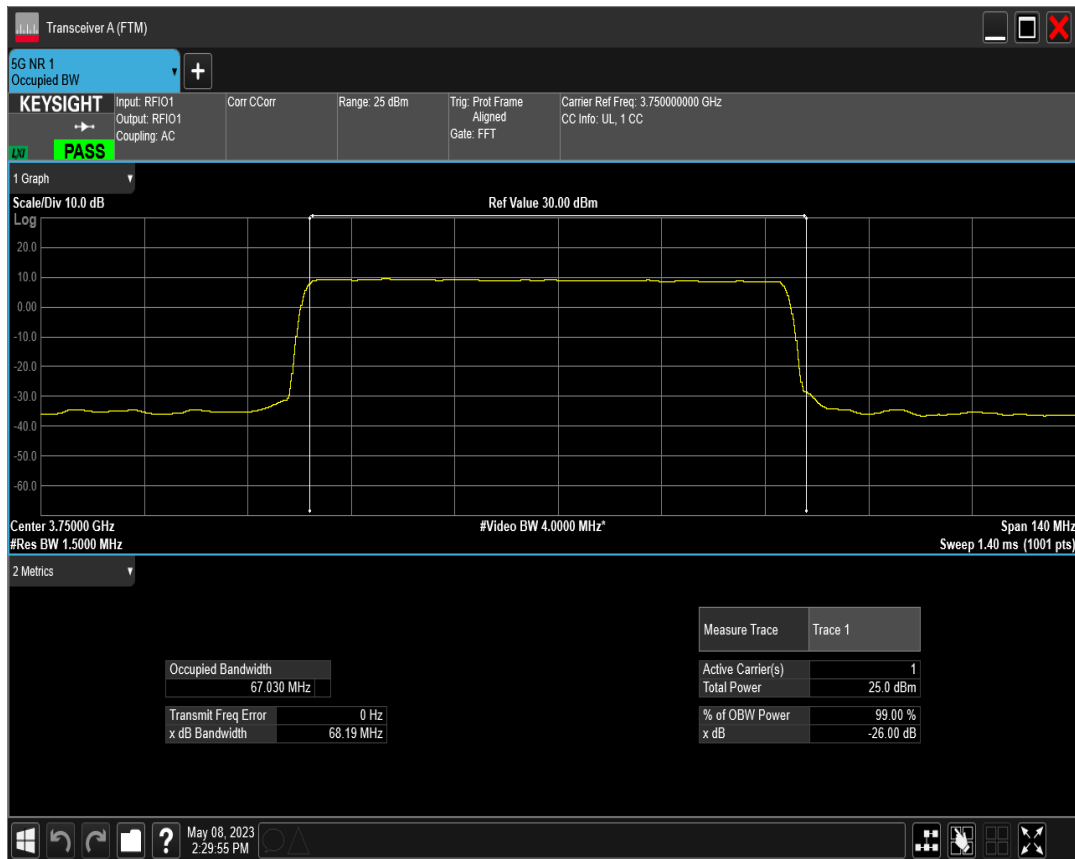
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=649000 RB=180@0



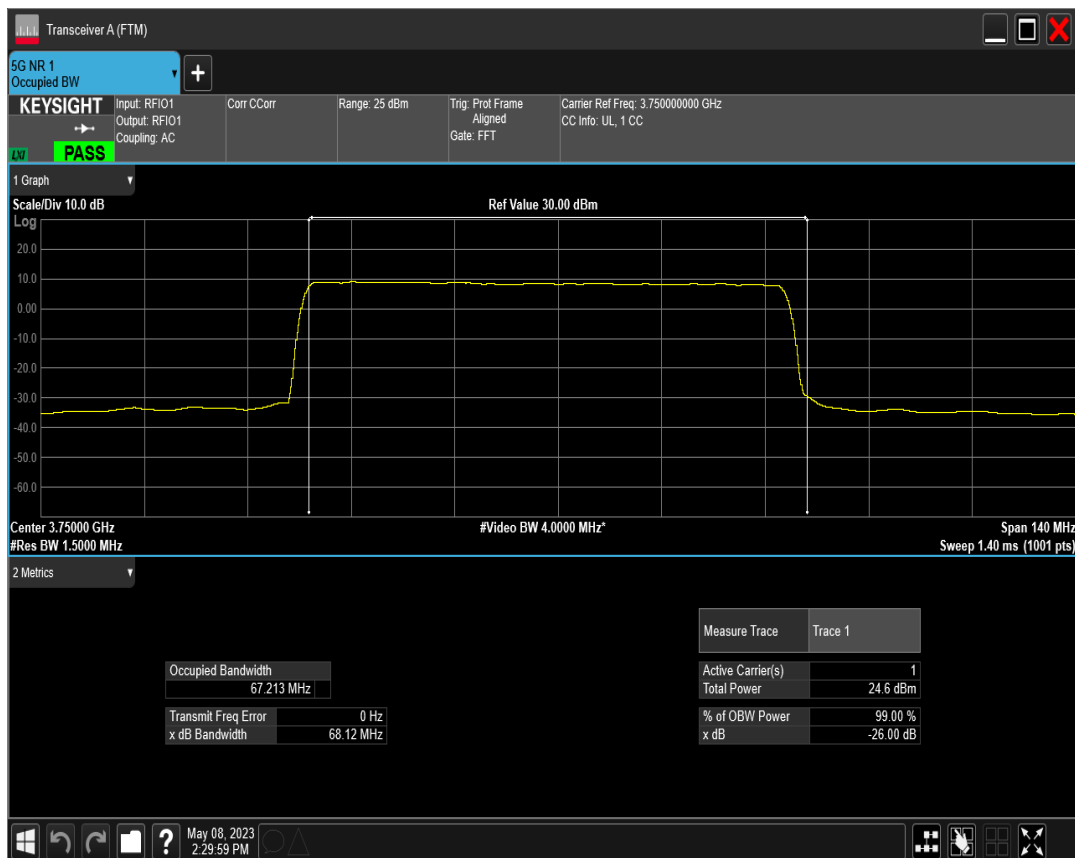
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=649000 RB=189@0



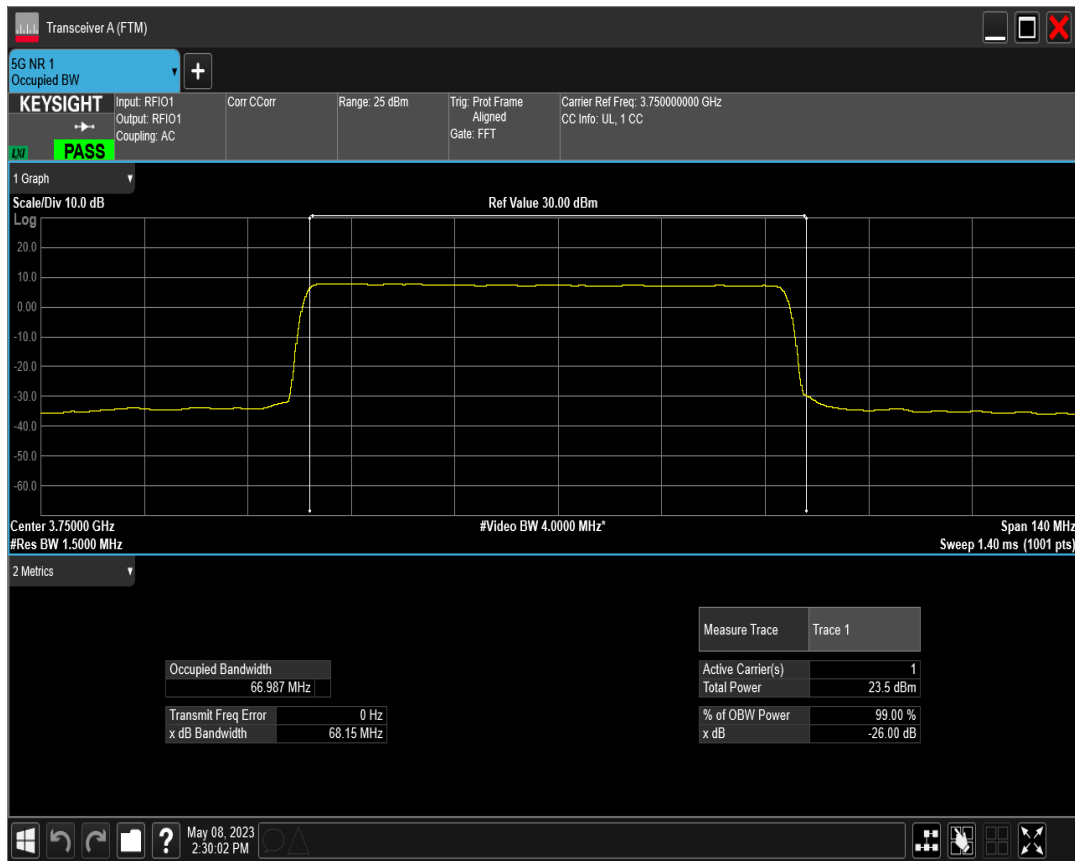
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



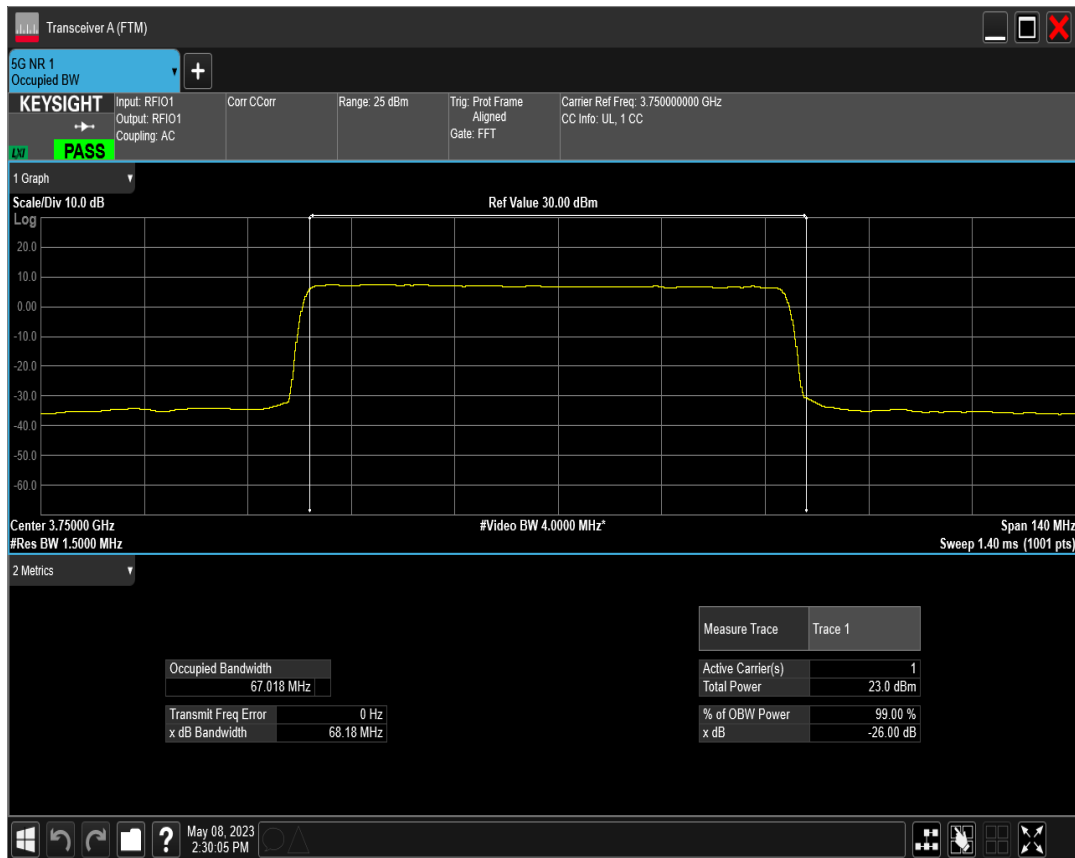
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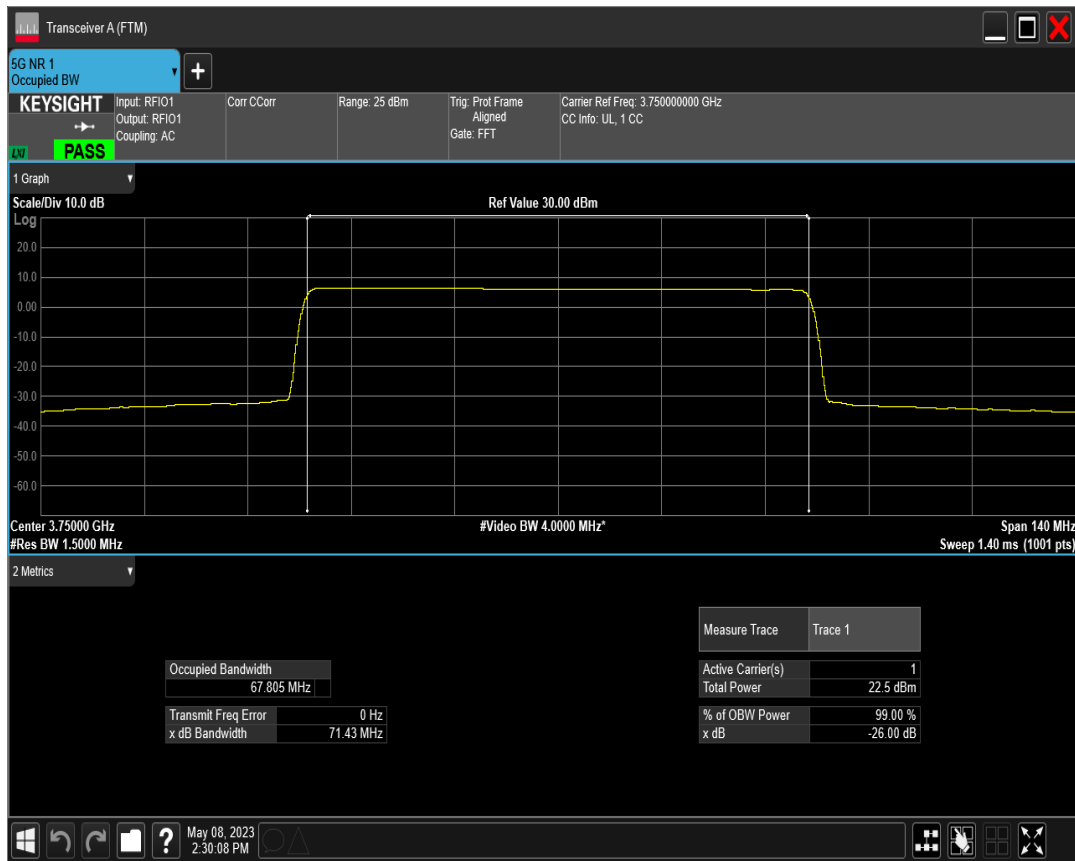
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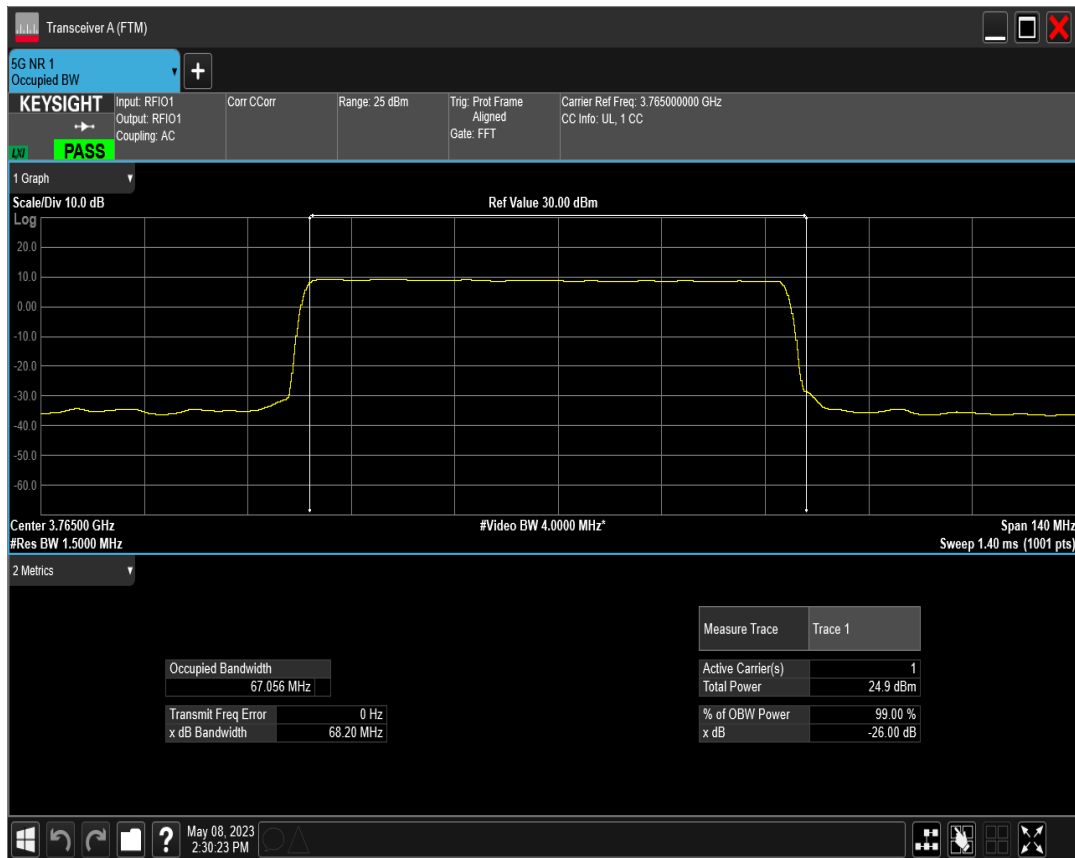
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=650000 RB=180@0



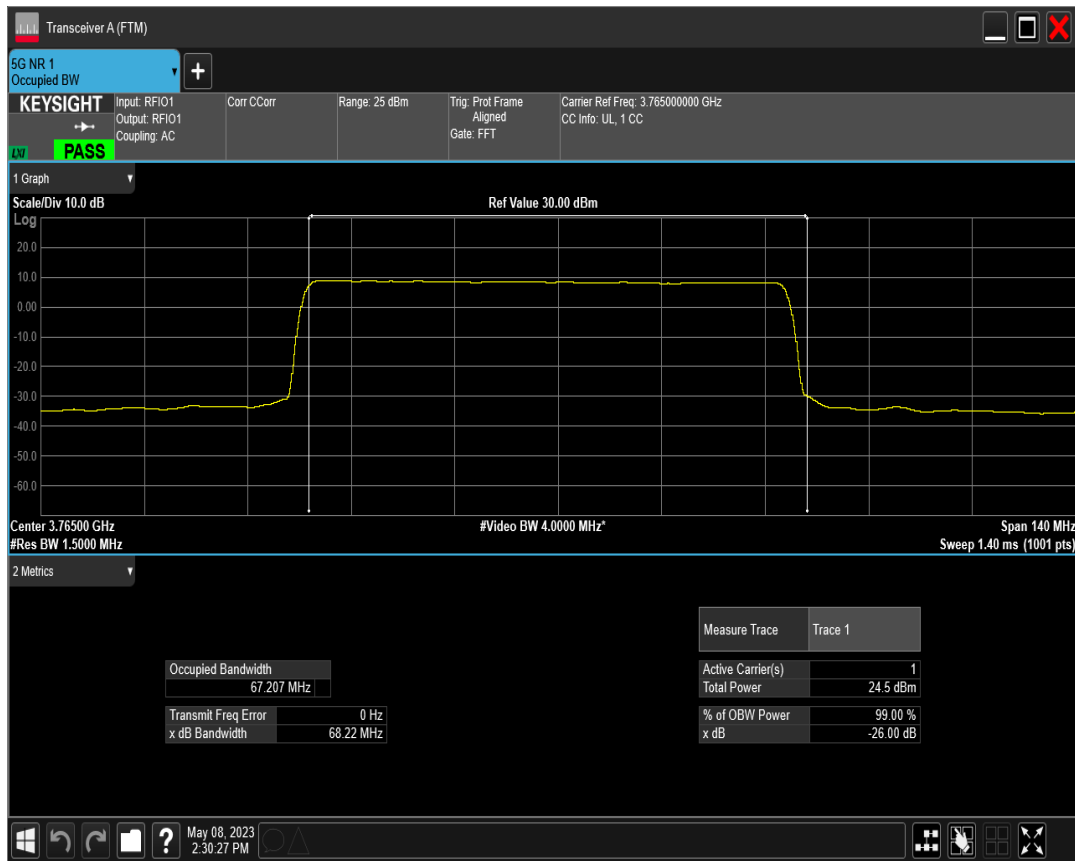
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=650000 RB=189@0



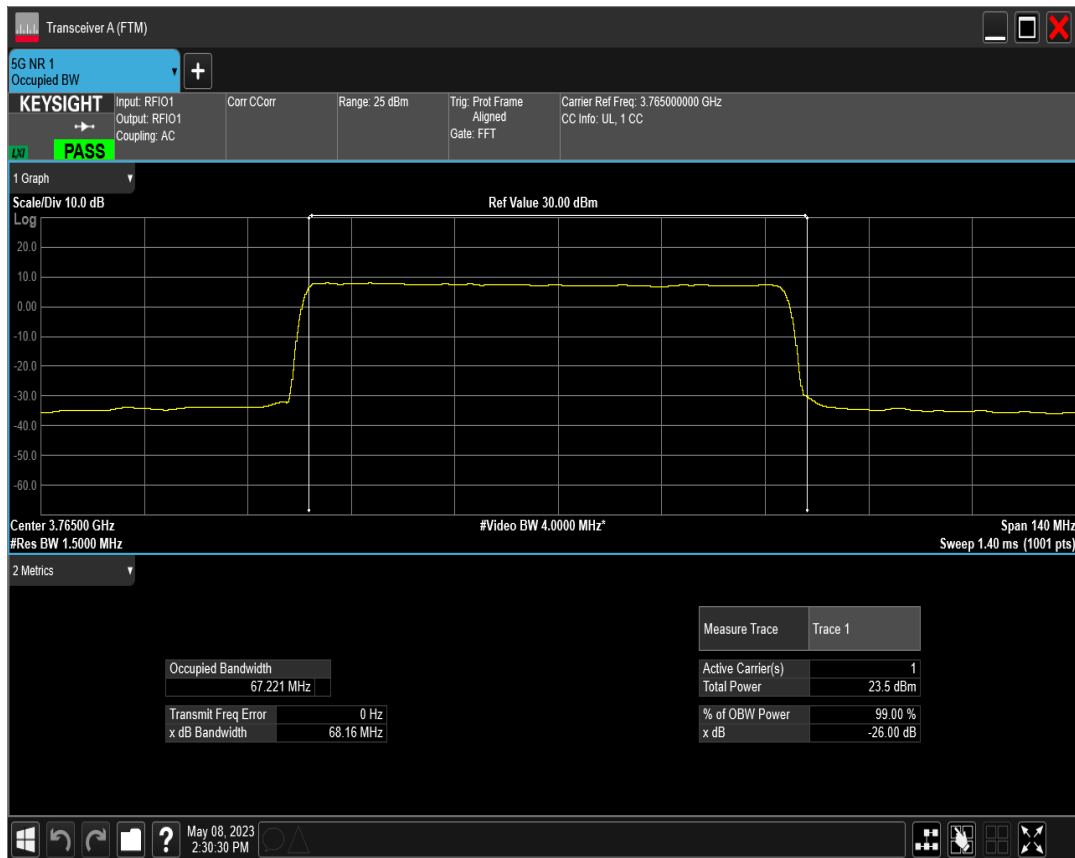
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=651000 RB=180@0



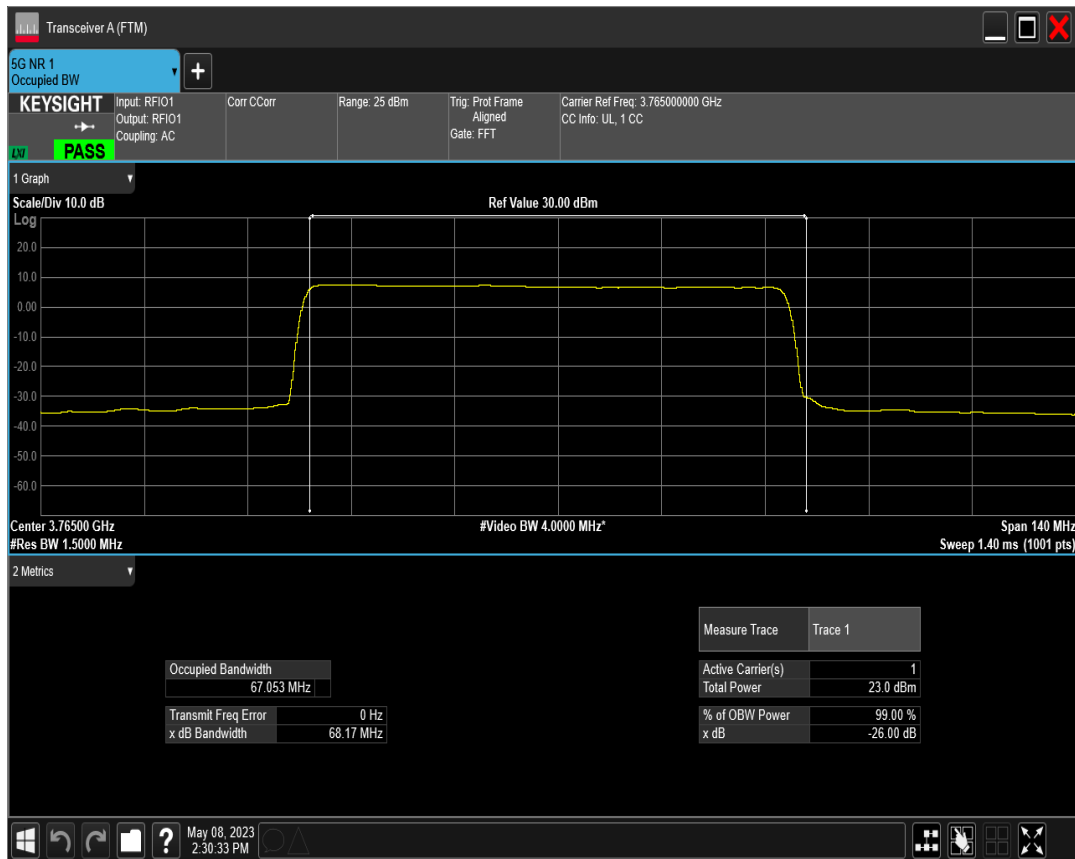
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



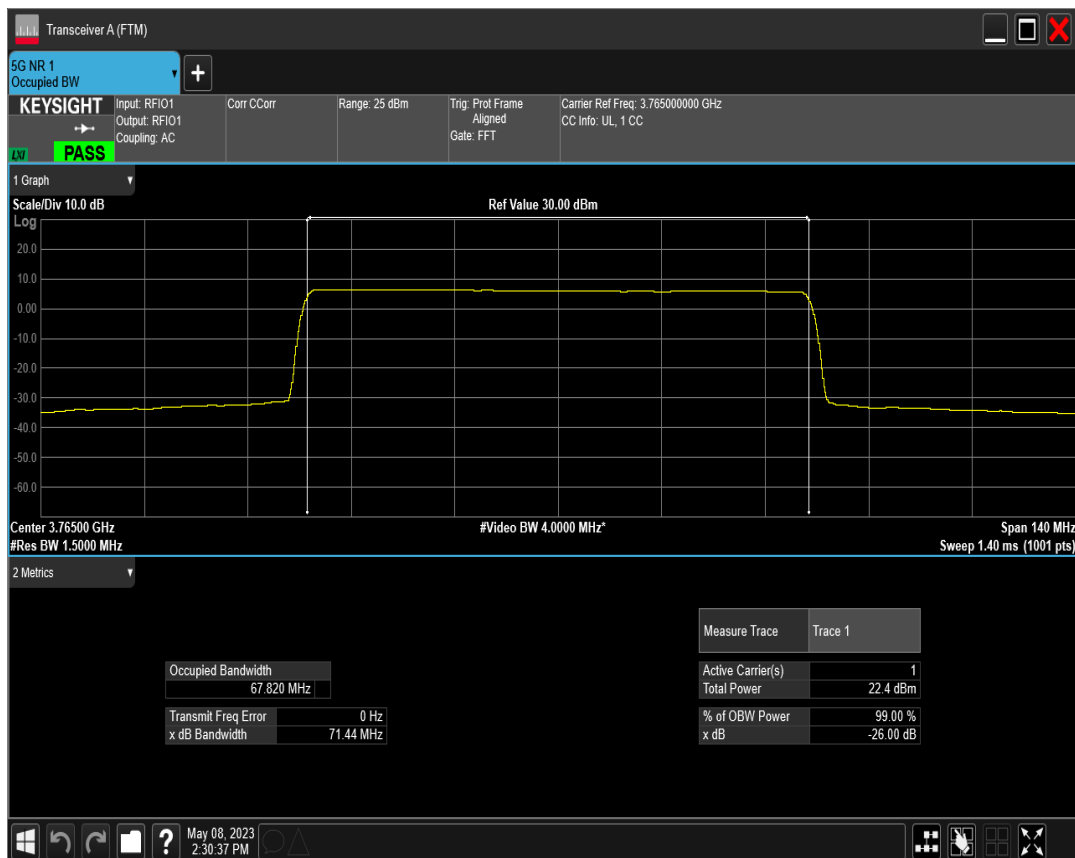
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=651000 RB=189@0



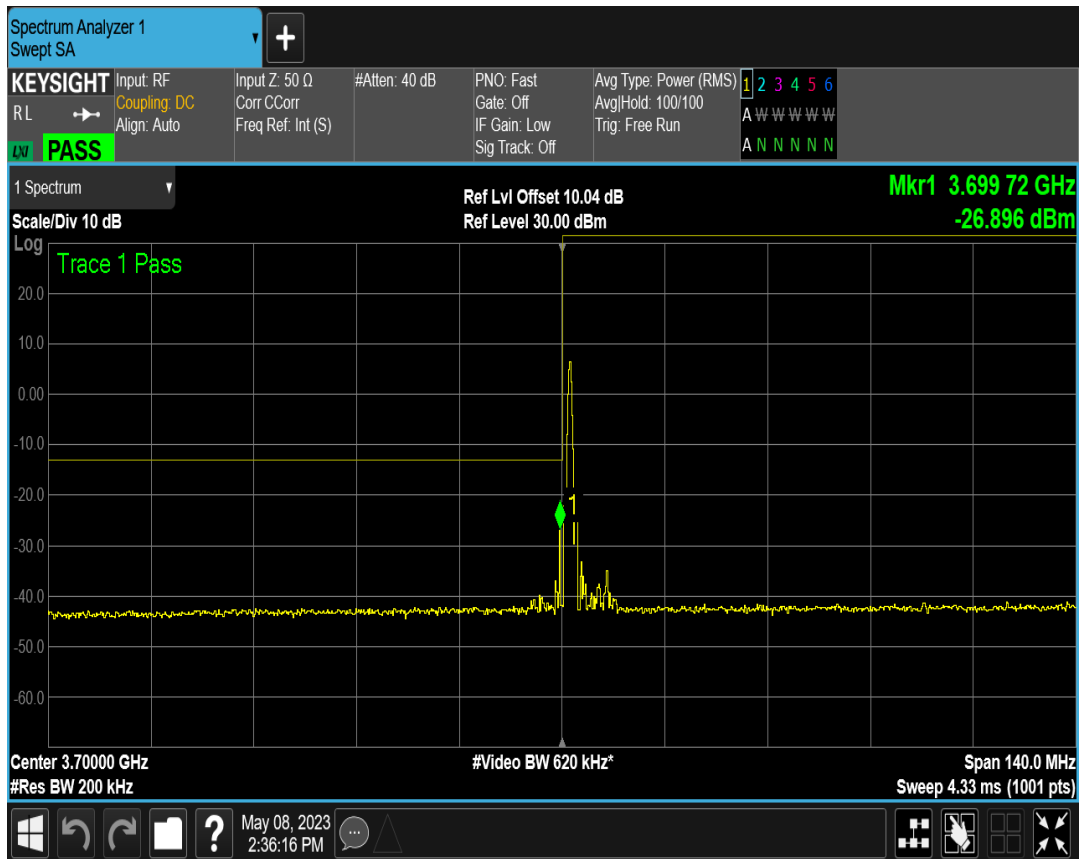
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	3697.62	-35.20	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	3699.72	-26.89	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	3804.62	-35.85	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	3800.42	-35.93	-13	PASS

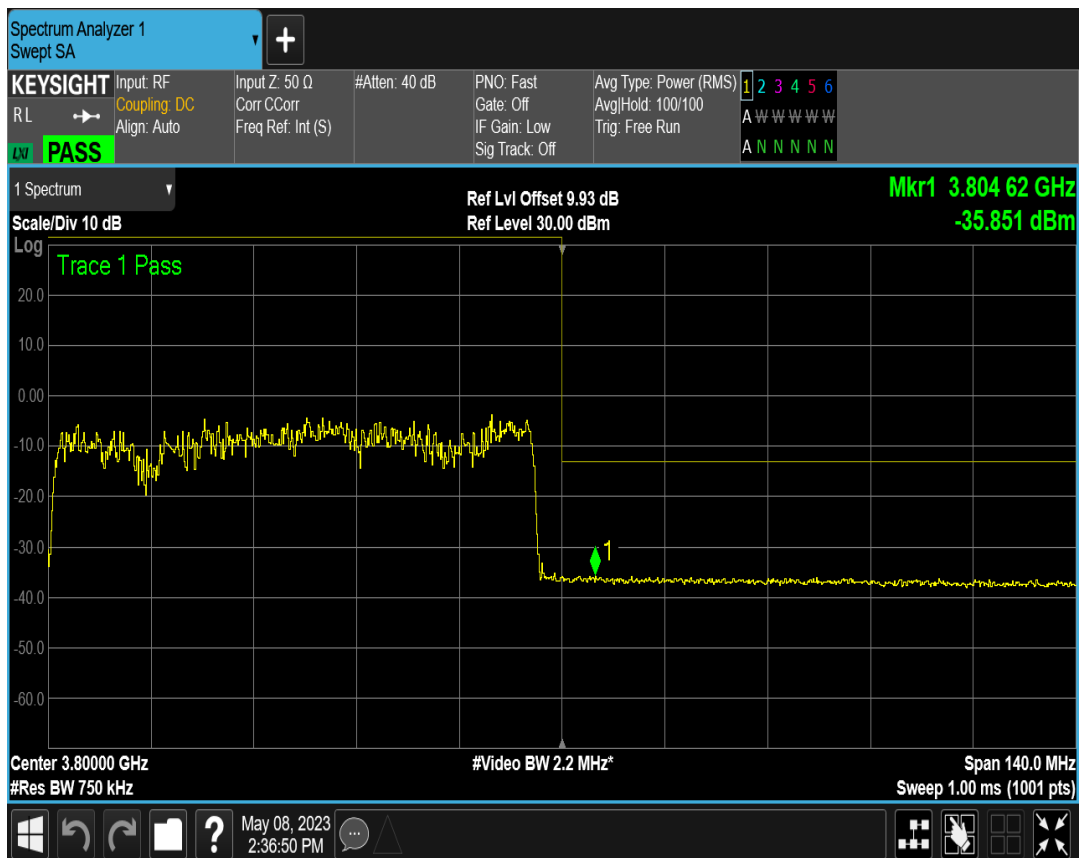
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



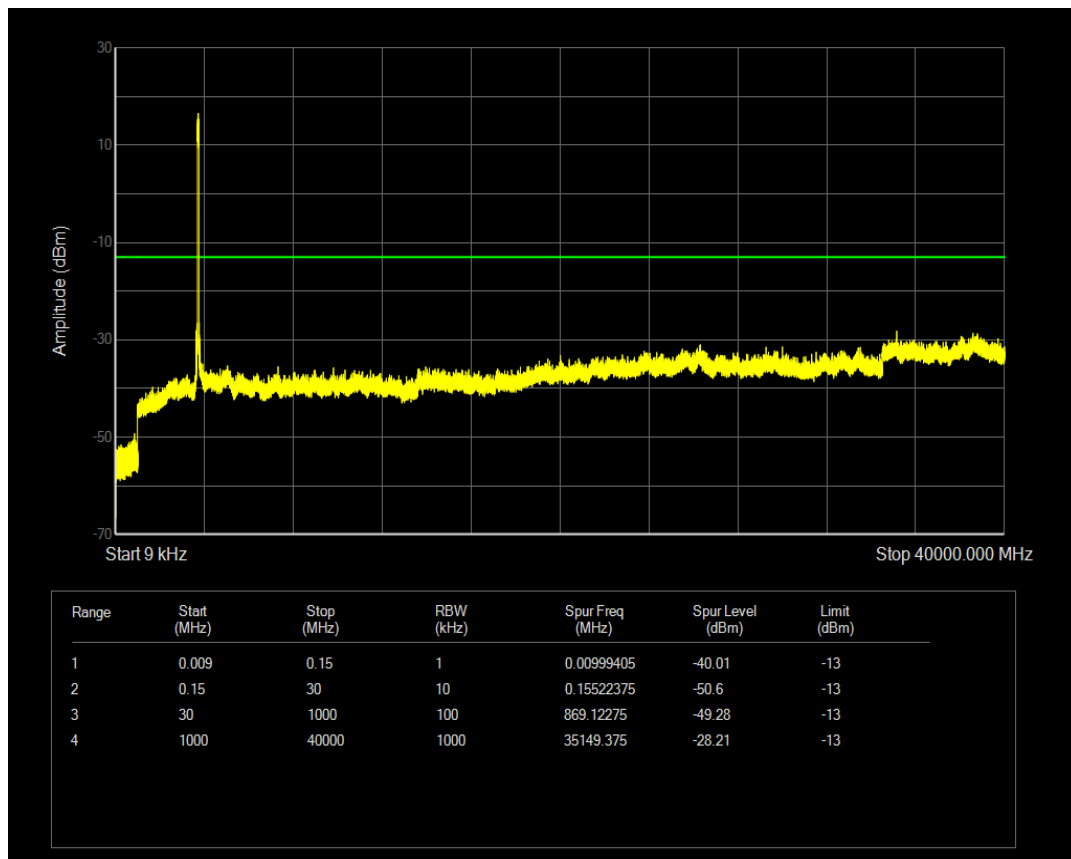
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188



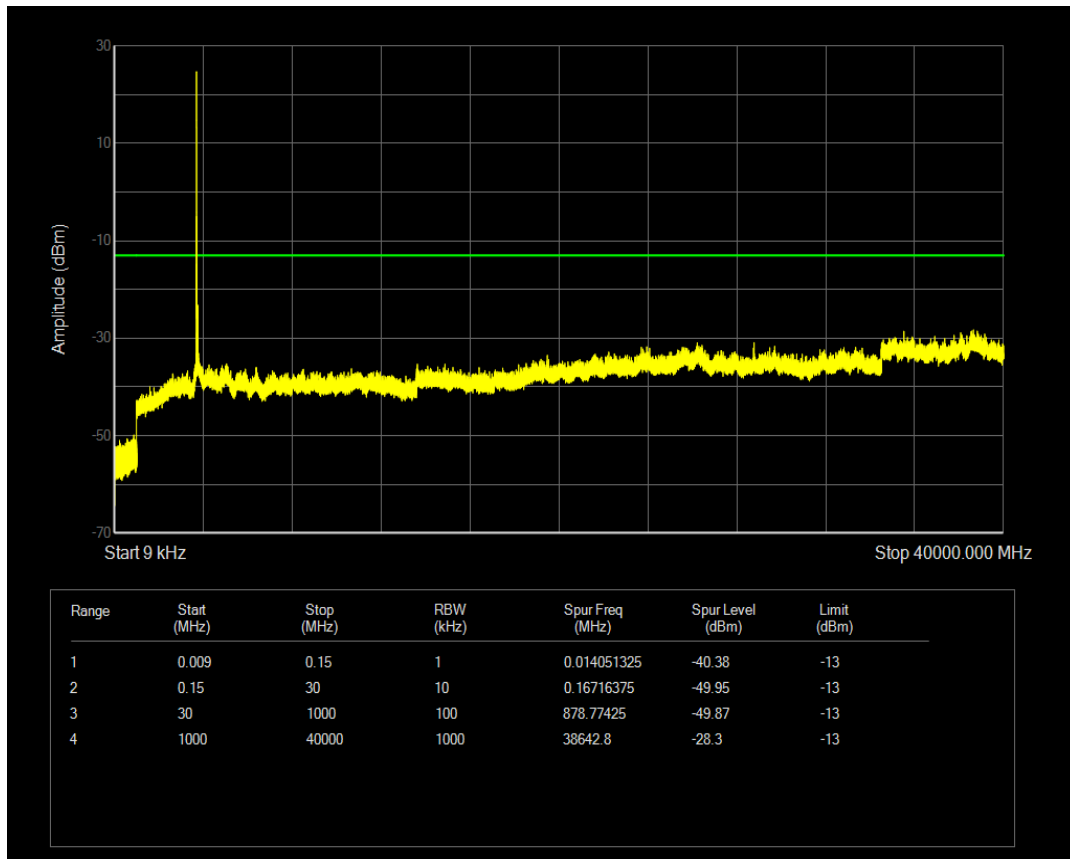
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	35149.38	-28.21	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	38642.80	-28.30	-13	PASS
n78(3700-3800)	30	70	649000	1@188	DFT_QPSK	35038.23	-28.53	-13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	38084.13	-28.06	-13	PASS
n78(3700-3800)	30	70	650000	1@0	DFT_QPSK	38593.08	-28.38	-13	PASS
n78(3700-3800)	30	70	650000	1@188	DFT_QPSK	38589.18	-28.25	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	38808.55	-28.98	-13	PASS
n78(3700-3800)	30	70	651000	1@0	DFT_QPSK	38137.75	-28.07	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	38546.28	-27.82	-13	PASS

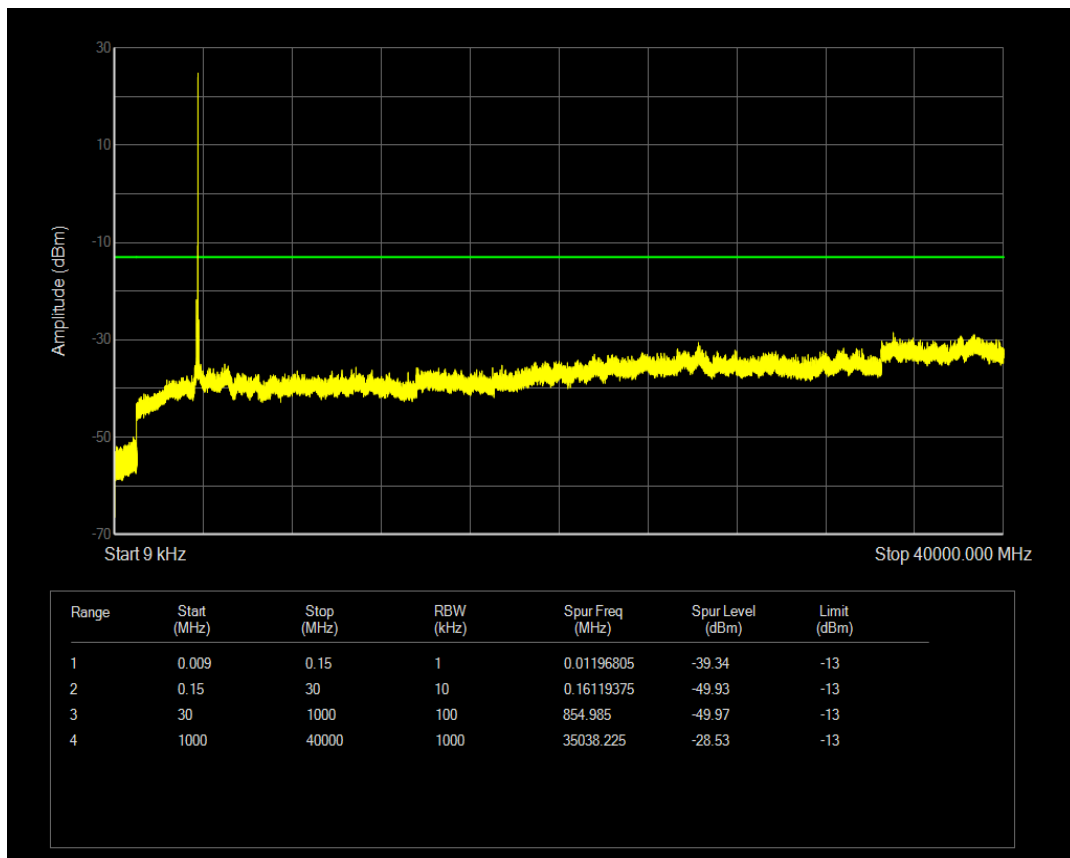
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



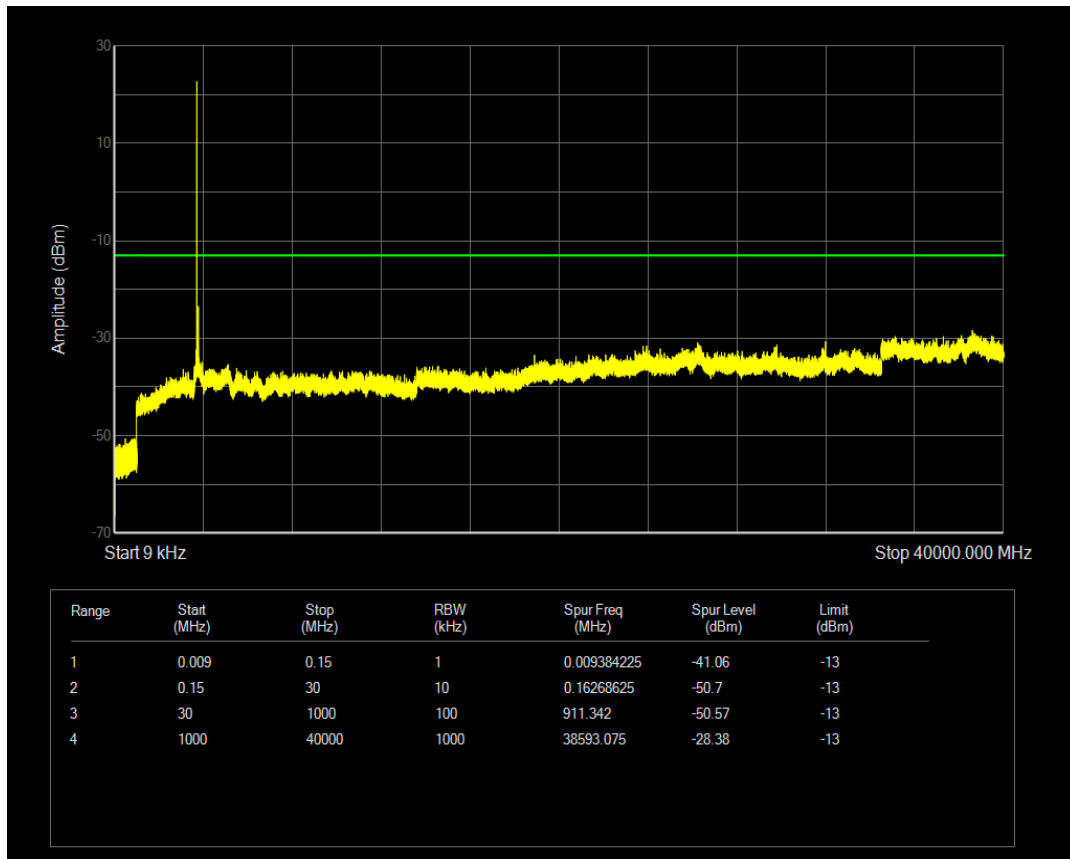
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



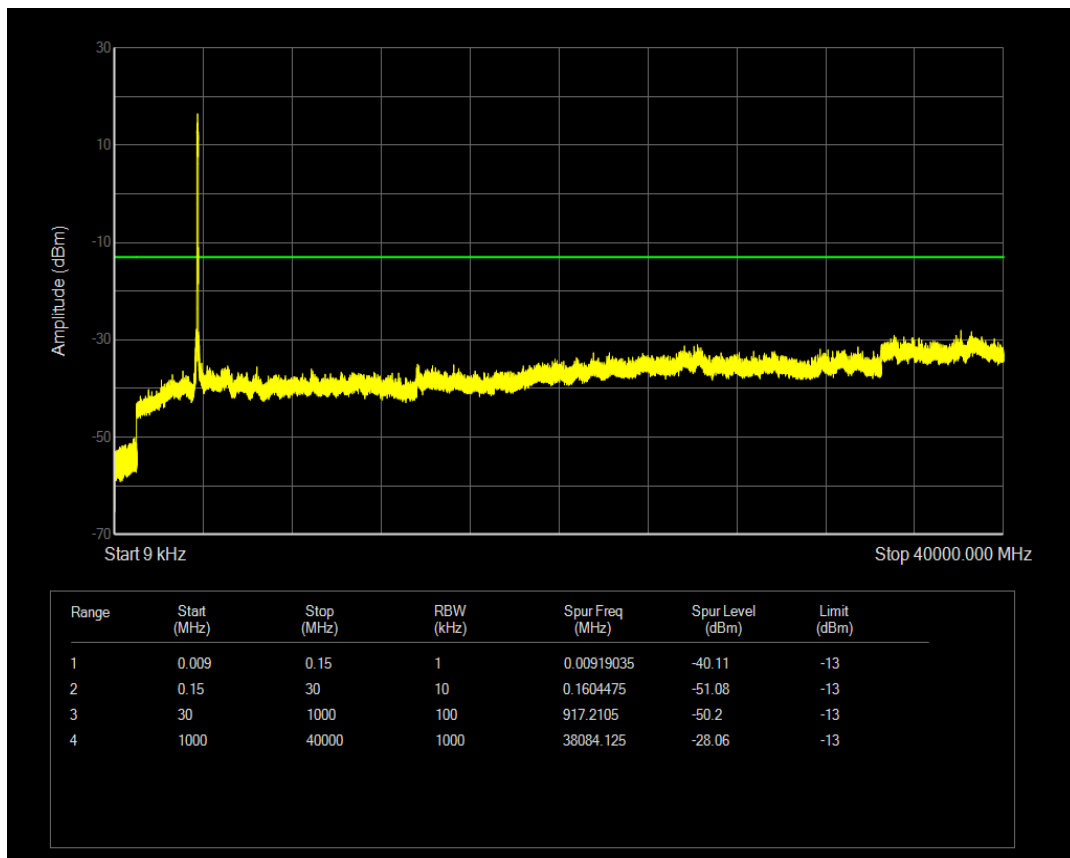
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@188



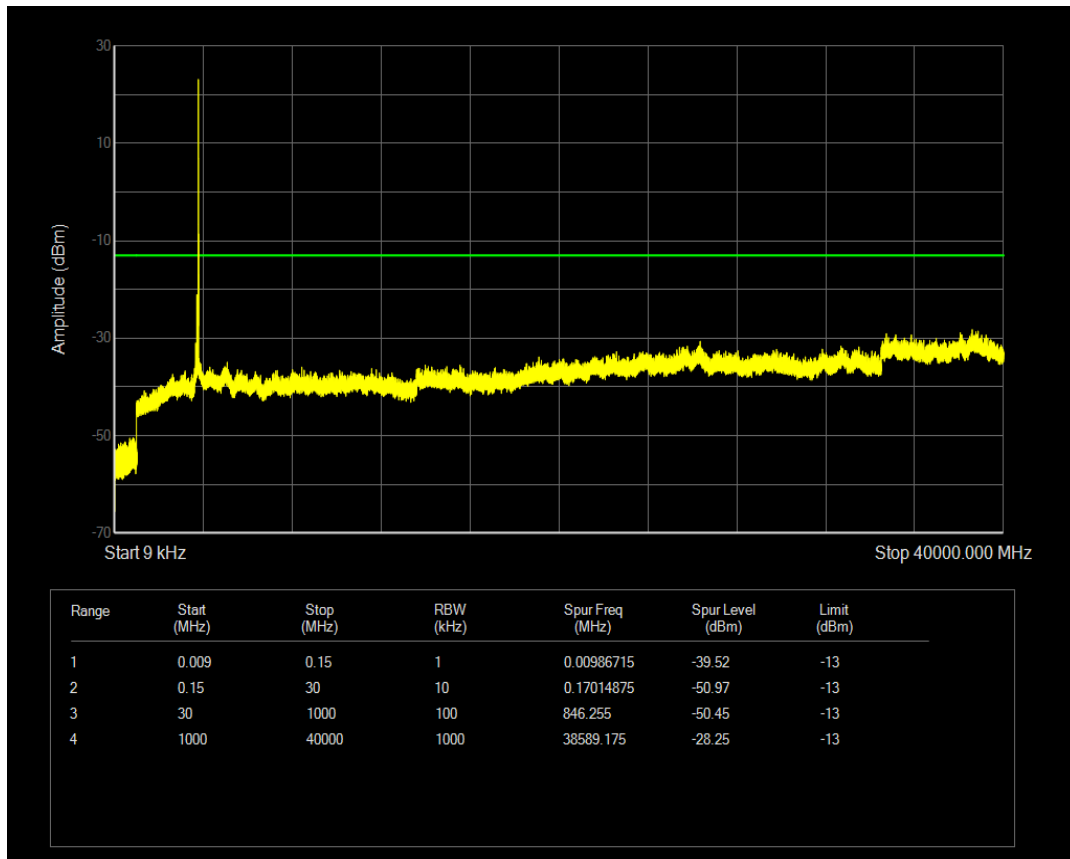
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1@0



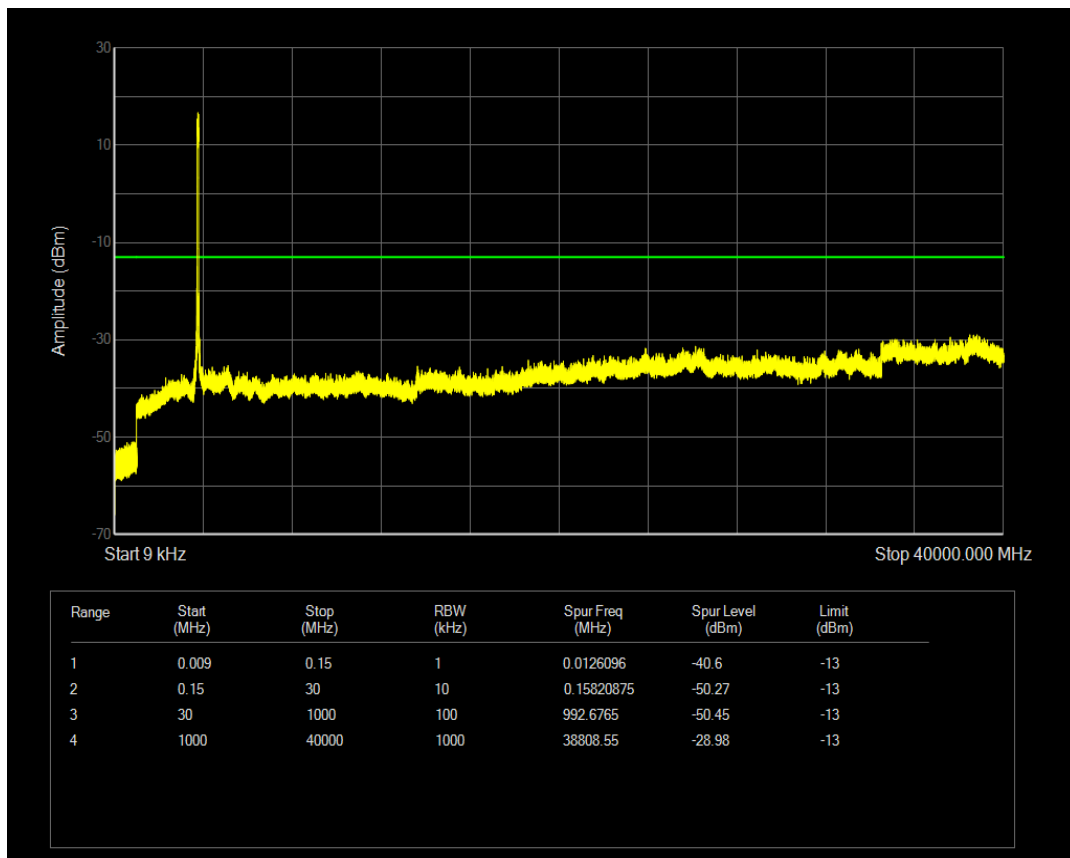
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



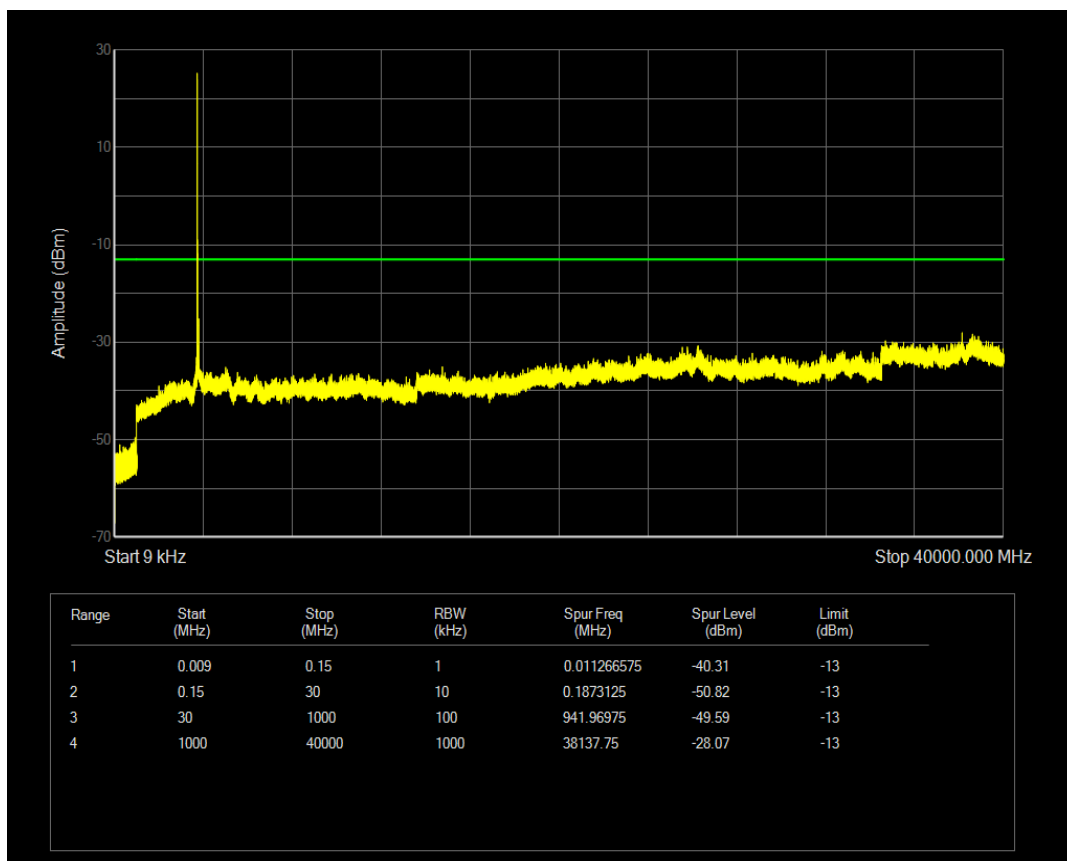
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1@188



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188

