

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(3700-3800)	30	70	649000	90@45	DFT_BPSK	25.95	22.95	25.85	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_BPSK	25.50	22.50	25.40	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_BPSK	25.56	22.56	25.46	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QPSK	25.99	22.99	25.89	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QPSK	25.20	22.20	25.10	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QPSK	25.28	22.28	25.18	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM16	25.03	22.03	24.93	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM16	24.65	21.65	24.55	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM16	24.43	21.43	24.33	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM64	23.51	20.51	23.41	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM64	22.93	19.93	22.83	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM64	22.92	19.92	22.82	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QPSK	24.47	21.47	24.37	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QPSK	24.03	21.03	23.93	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QPSK	24.07	21.07	23.97	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM16	23.98	20.98	23.88	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM16	23.51	20.51	23.41	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM16	23.55	20.55	23.45	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM64	22.52	19.52	22.42	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM64	22.39	19.39	22.29	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM64	22.02	19.02	21.92	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	26.06	23.06	25.96	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	25.53	22.53	25.43	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	25.44	22.44	25.34	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	25.97	22.97	25.87	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	25.34	22.34	25.24	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	25.31	22.31	25.21	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM16	25.04	22.04	24.94	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM16	24.52	21.52	24.42	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM16	24.47	21.47	24.37	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM64	23.47	20.47	23.37	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM64	23.07	20.07	22.97	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM64	22.98	19.98	22.88	30	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QPSK	24.43	21.43	24.33	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QPSK	24.05	21.05	23.95	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QPSK	24.08	21.08	23.98	30	PASS

n78(3700-3800)	30	70	650000	95@47	CP_QAM16	23.97	20.97	23.87	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM16	23.55	20.55	23.45	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM16	23.55	20.55	23.45	30	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM64	22.45	19.45	22.35	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM64	22.58	19.58	22.48	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM64	22.33	19.33	22.23	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_BPSK	26.01	23.01	25.91	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_BPSK	25.41	22.41	25.31	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_BPSK	25.39	22.39	25.29	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QPSK	25.98	22.98	25.88	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QPSK	25.26	22.26	25.16	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QPSK	25.25	22.25	25.15	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM16	25.01	22.01	24.91	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM16	24.43	21.43	24.33	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM16	24.45	21.45	24.35	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM64	23.54	20.54	23.44	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM64	22.96	19.96	22.86	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM64	22.86	19.86	22.76	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QPSK	24.42	21.42	24.32	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QPSK	23.93	20.93	23.83	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QPSK	23.94	20.94	23.84	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM16	23.92	20.92	23.82	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM16	23.46	20.46	23.36	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM16	23.44	20.44	23.34	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM64	22.45	19.45	22.35	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM64	22.46	19.46	22.36	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM64	21.79	18.79	21.69	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(3700-3800)	30	70	650000	90@45	DFT_BPSK	3.89	-35.04	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	3.45	-34.39	-0.01		PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	4.48	-33.32	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	3.89	-33.78	-0.01		PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	3.45	-30.18	-0.01		PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	4.48	-26.70	-0.01		PASS

NV:

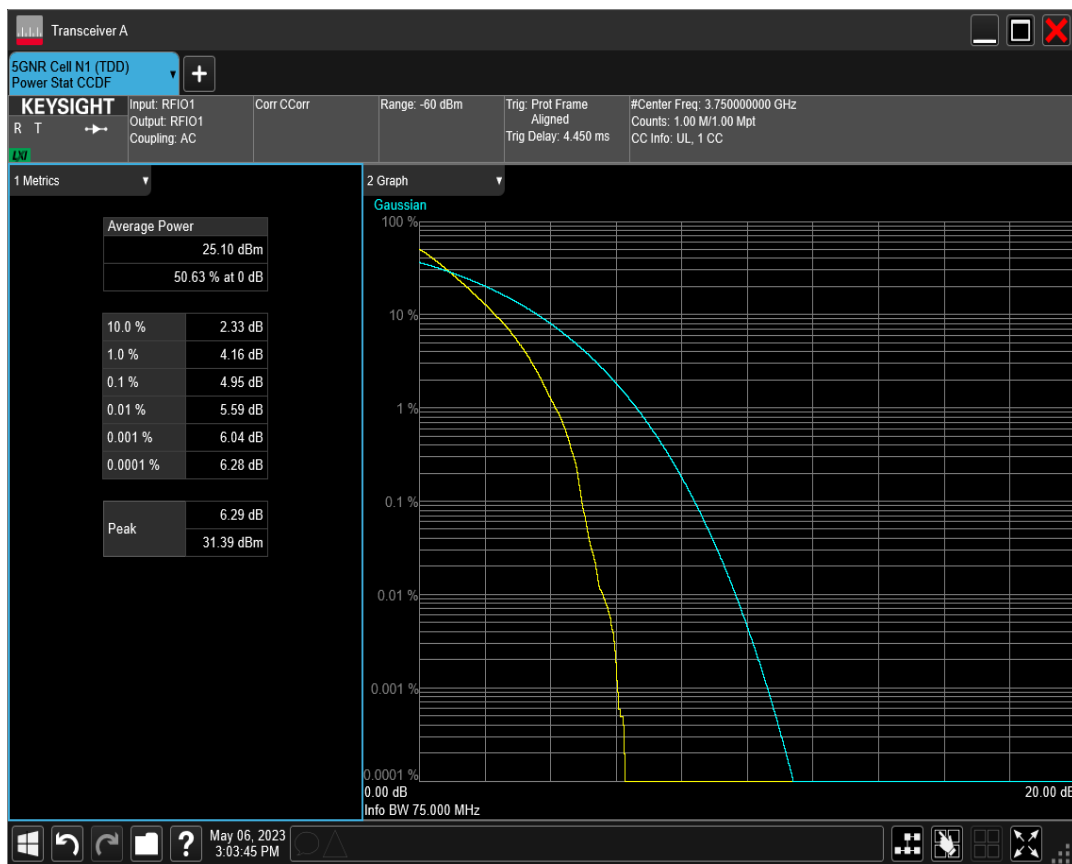
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Temperature(°C)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-30	-35	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-20	-33.96	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-10	-33.13	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	0	-33.64	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	10	-29.83	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	20	-26.73	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	30	-34.67	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	40	-34.26	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	50	-33.37	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-30	-33.8	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-20	-29.84	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-10	-26.48	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	0	-34.21	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	10	-34.19	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	20	-33.62	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	30	-33.33	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	40	-29.57	-0.01	PASS	
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	50	-26.84	-0.01	PASS	

Note: Only the worst case shown in the report.

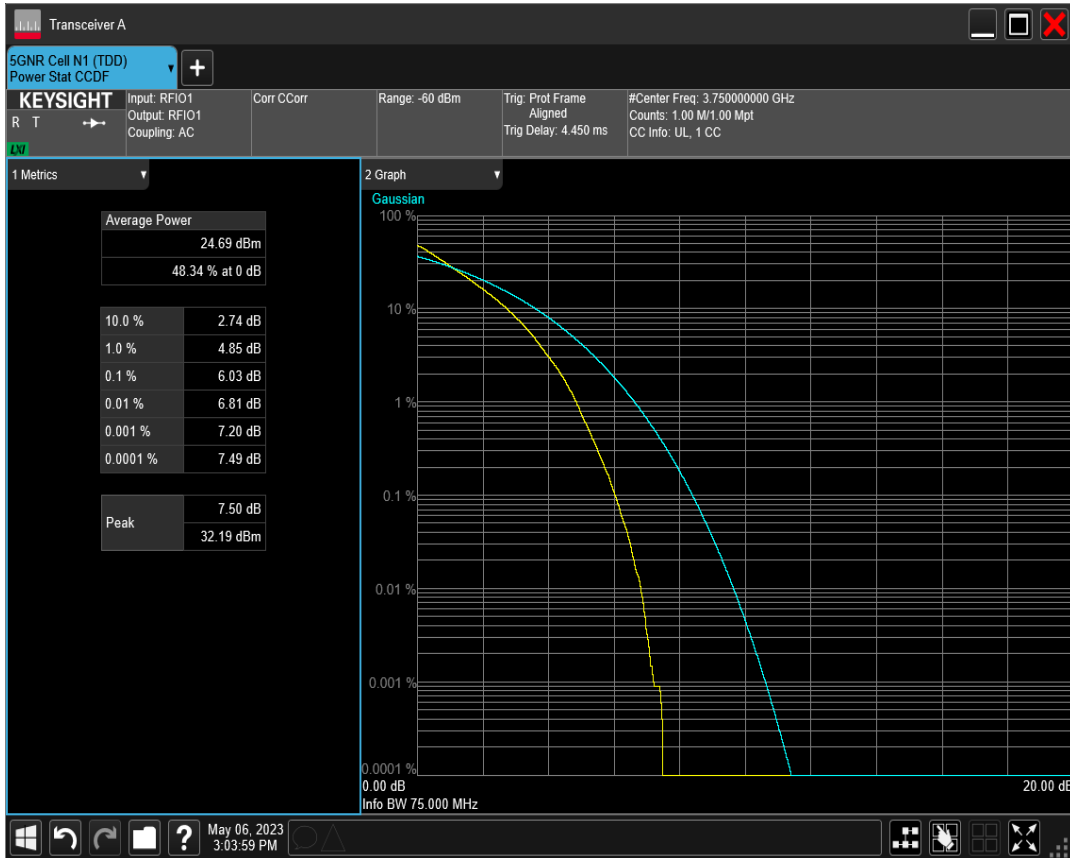
3 Peak-to-Average Ratio for NR FR1

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	4.95	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	6.03	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	6.80	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	7.01	13	PASS

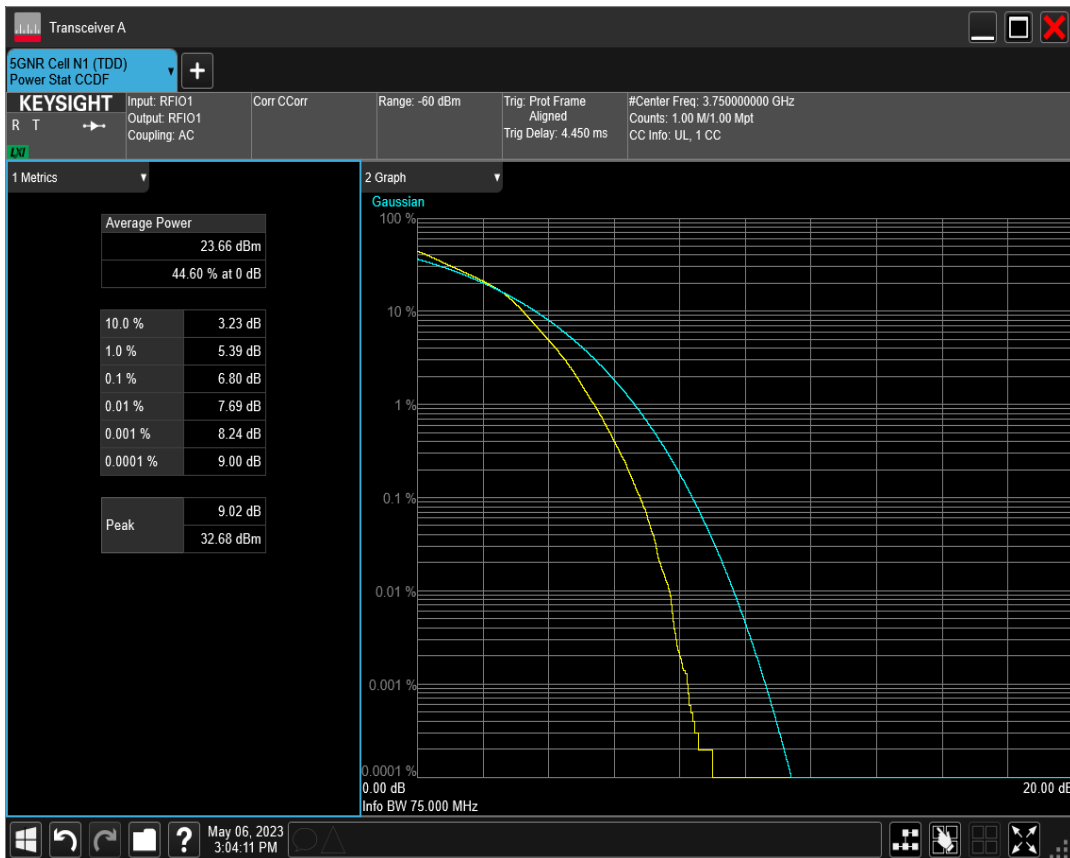
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



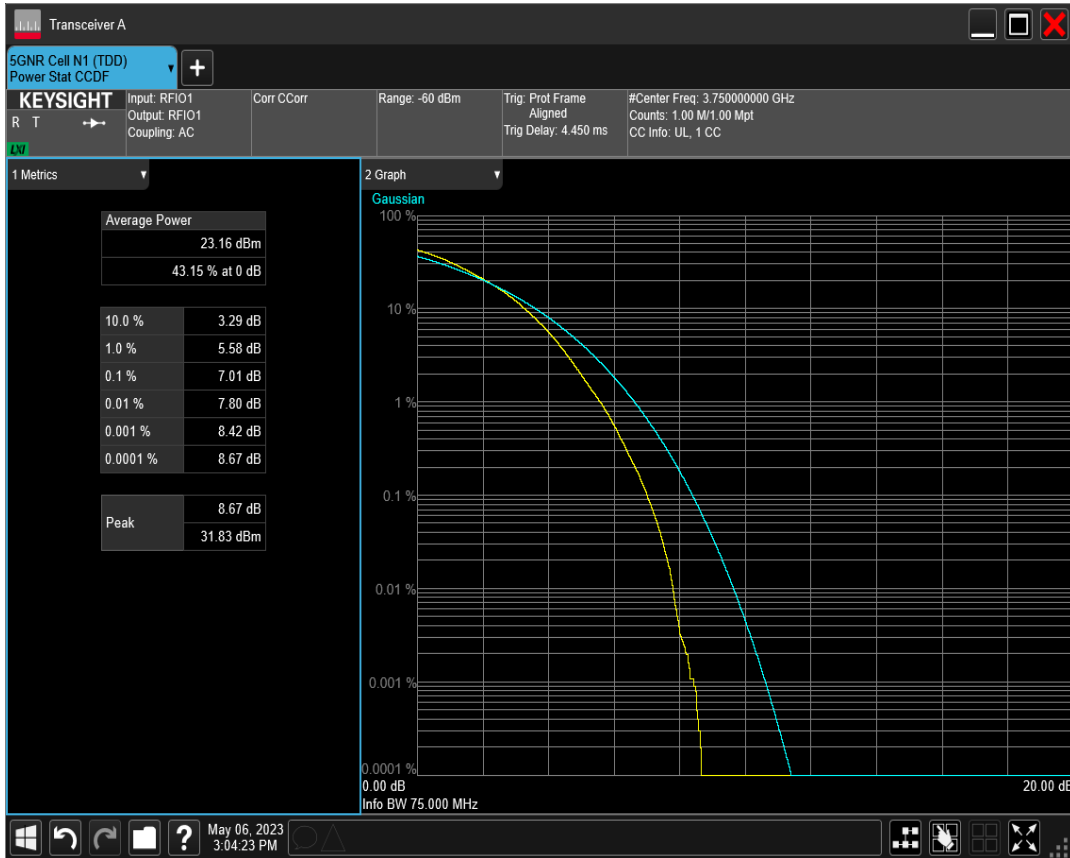
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



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	67.050	68.140	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	67.240	68.190	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM16	67.030	68.170	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM64	67.200	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	67.220	68.150	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	67.270	68.190	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	67.270	68.200	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	67.230	68.180	PASS
n78(3700-3800)	30	70	650000	189@0	CP_QPSK	67.830	71.440	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_BPSK	67.240	68.180	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	67.040	68.170	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM16	67.260	68.220	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM64	67.210	68.170	PASS
n78(3700-3800)	30	70	651000	189@0	CP_QPSK	67.820	71.460	PASS

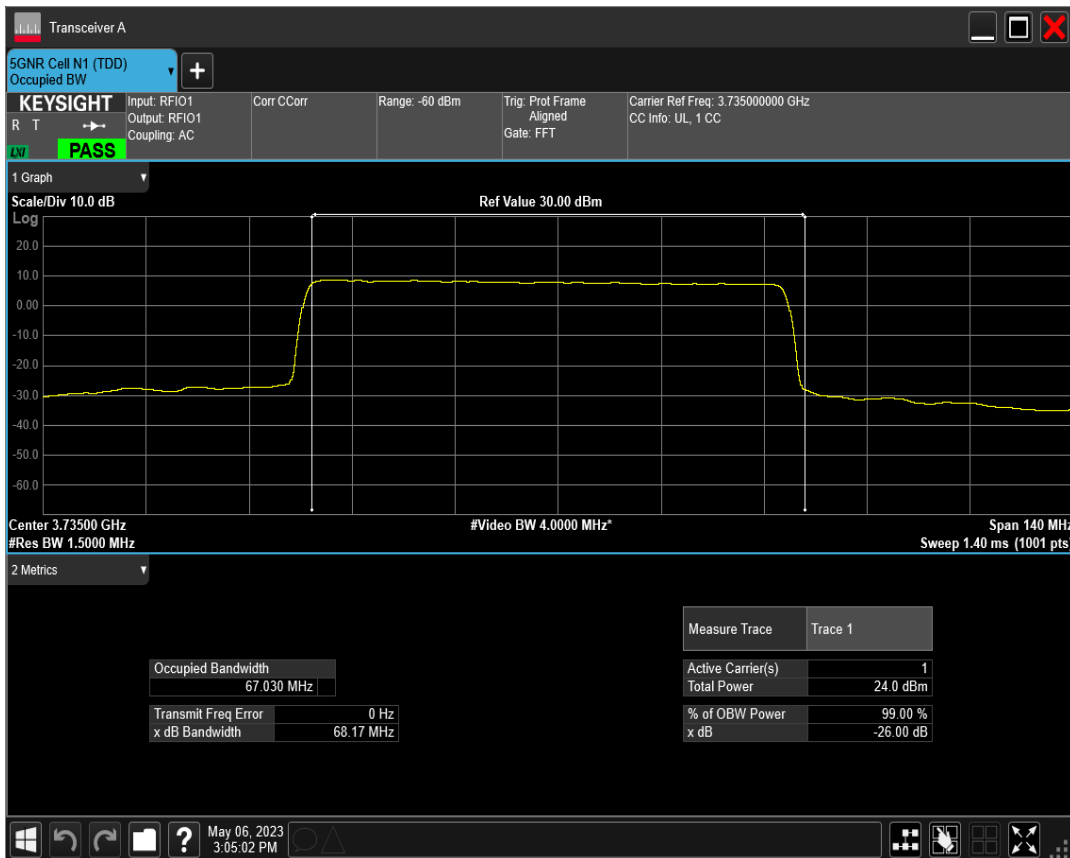
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=649000 RB=180@0



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



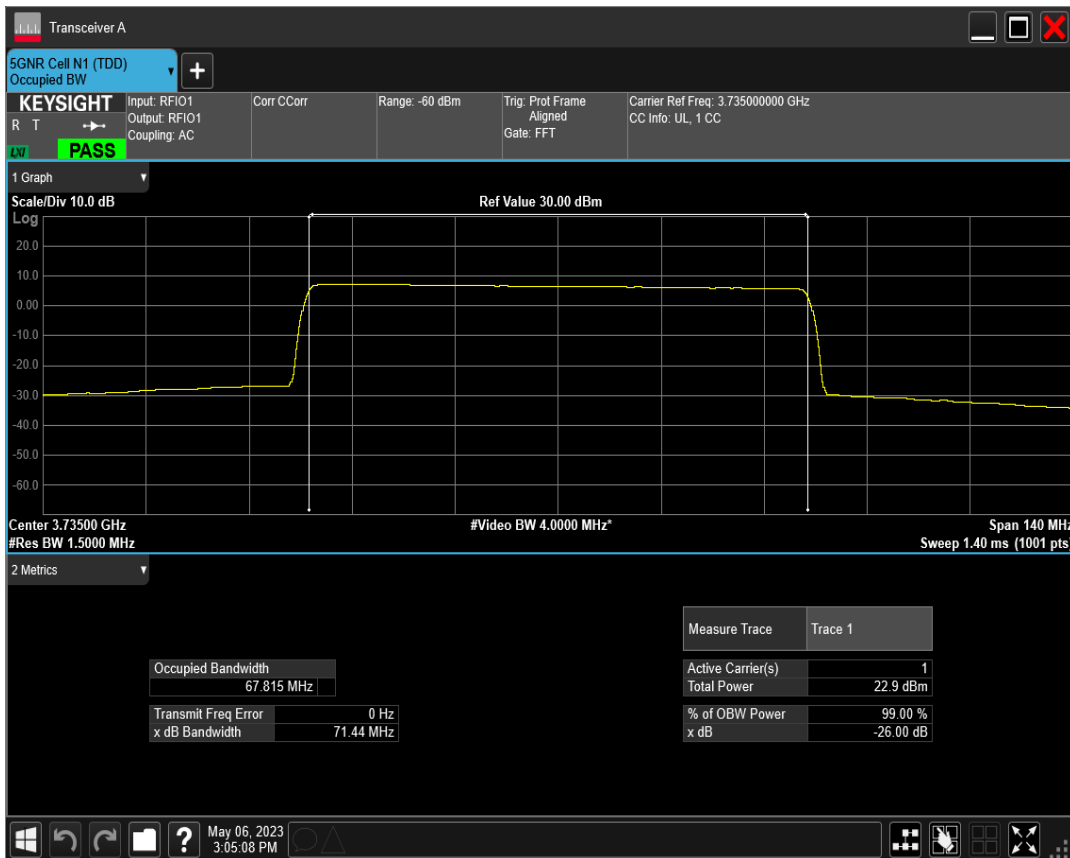
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n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=649000 RB=180@0



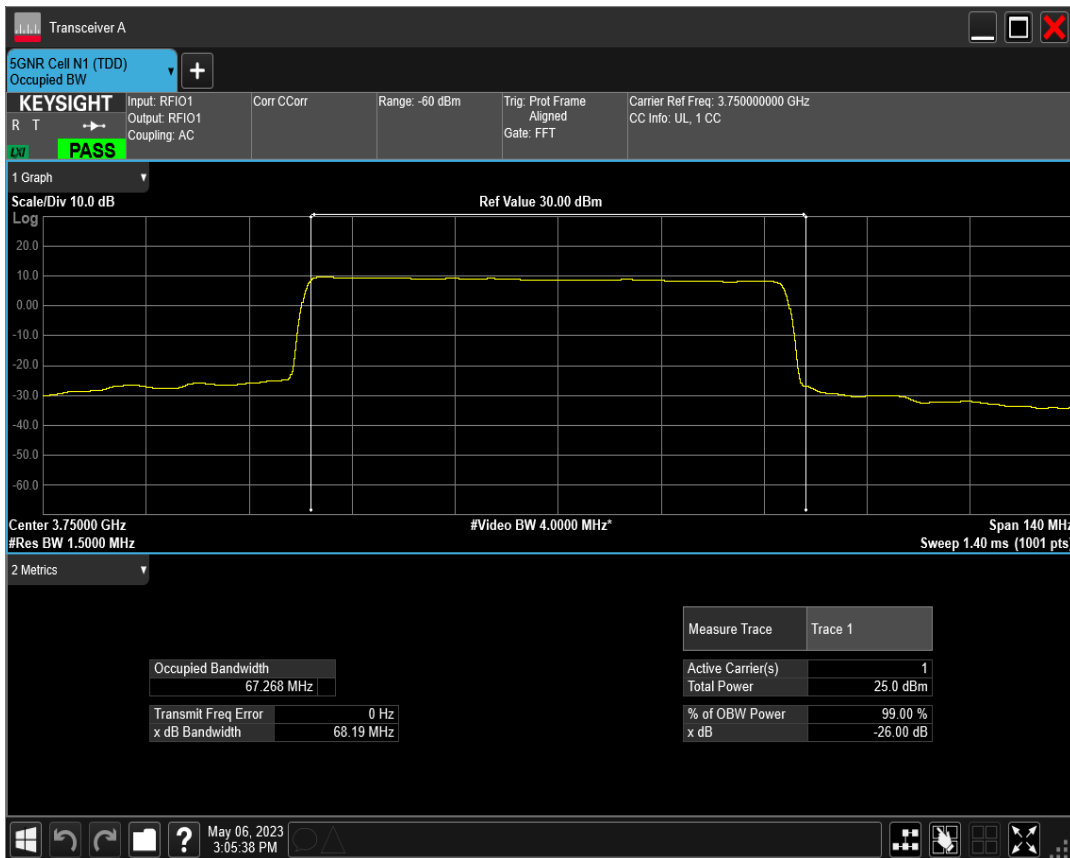
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n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



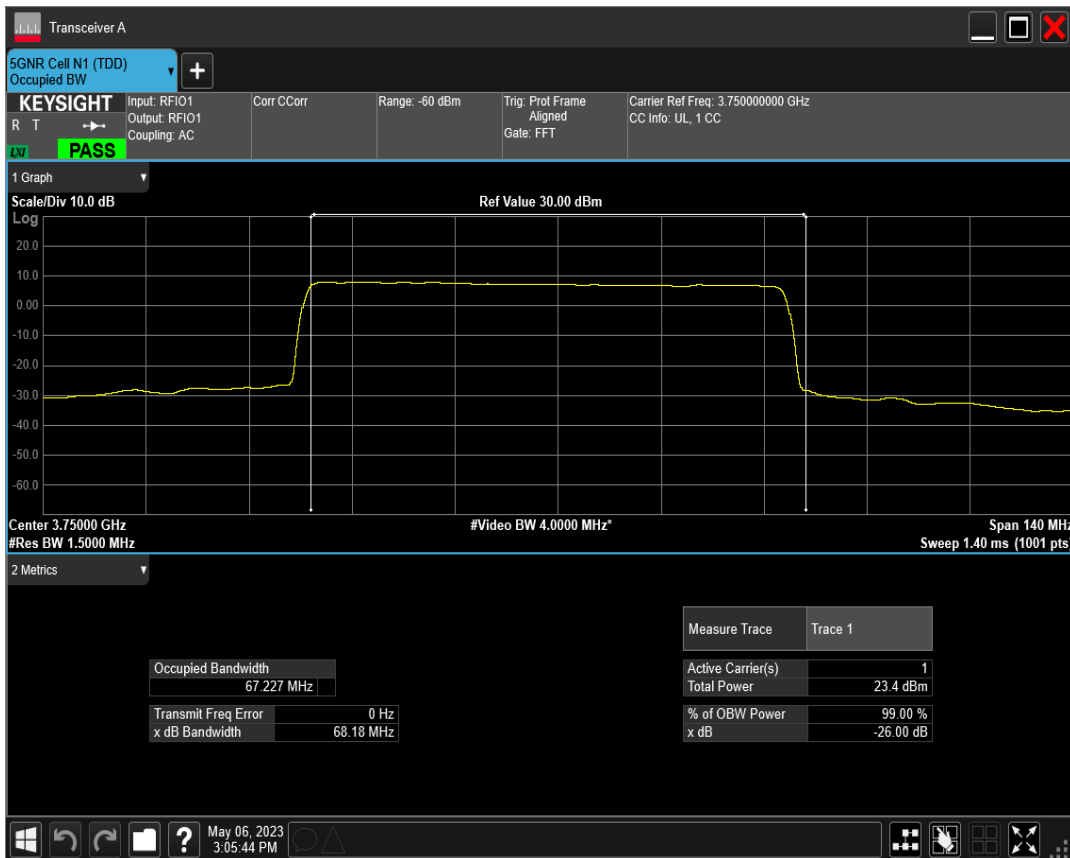
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n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=650000 RB=180@0



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



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



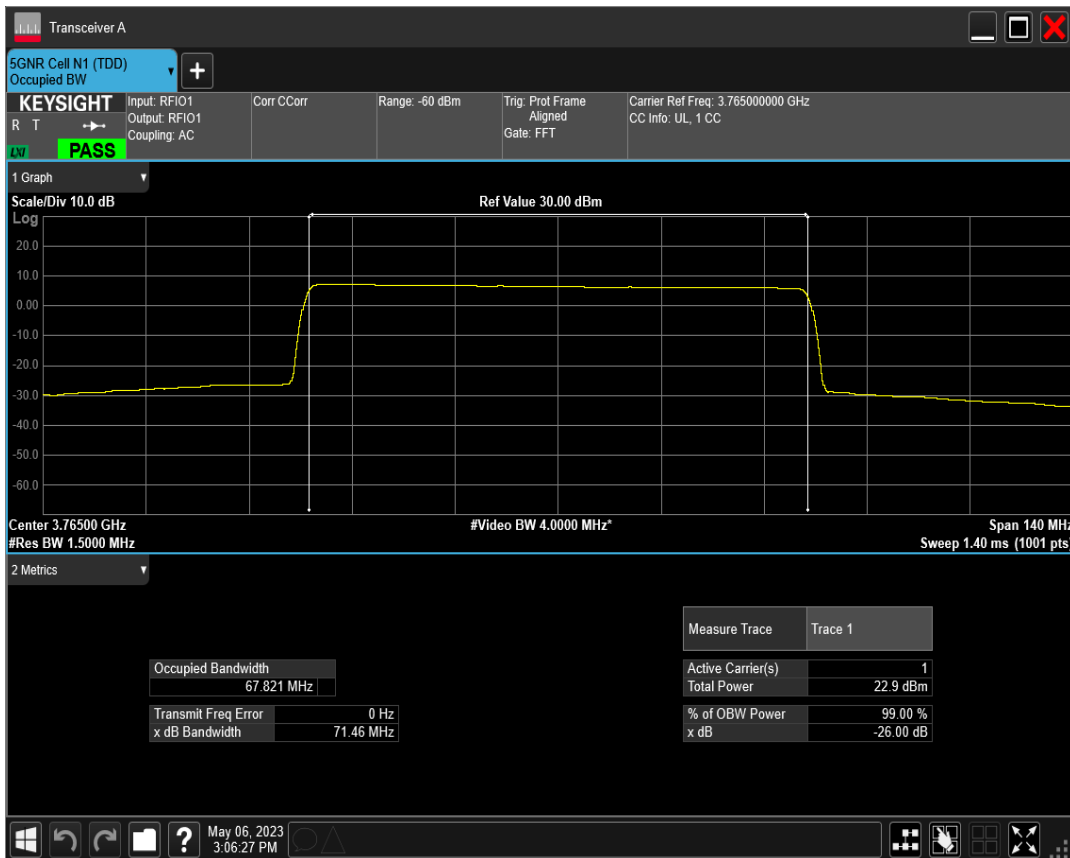
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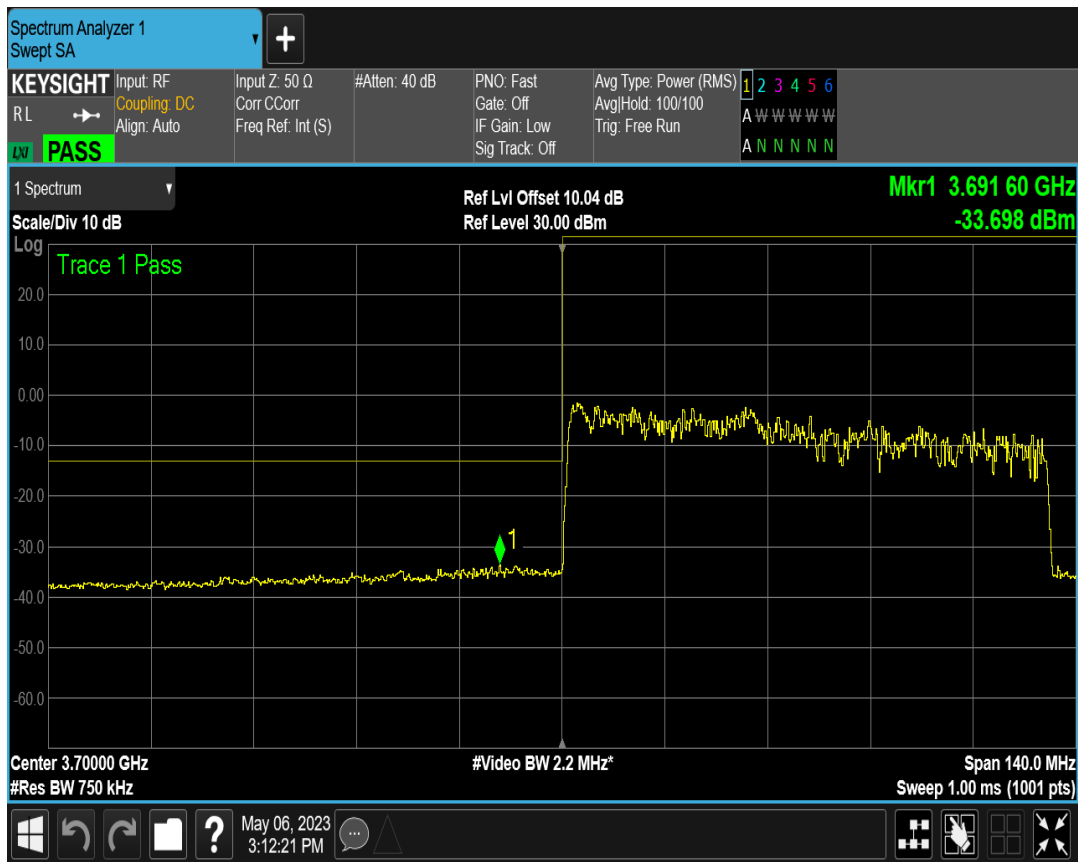
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=651000 RB=189@0



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	3691.60	-33.69	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	3699.86	-27.74	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	3803.22	-34.68	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	3800.00	-27.46	-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



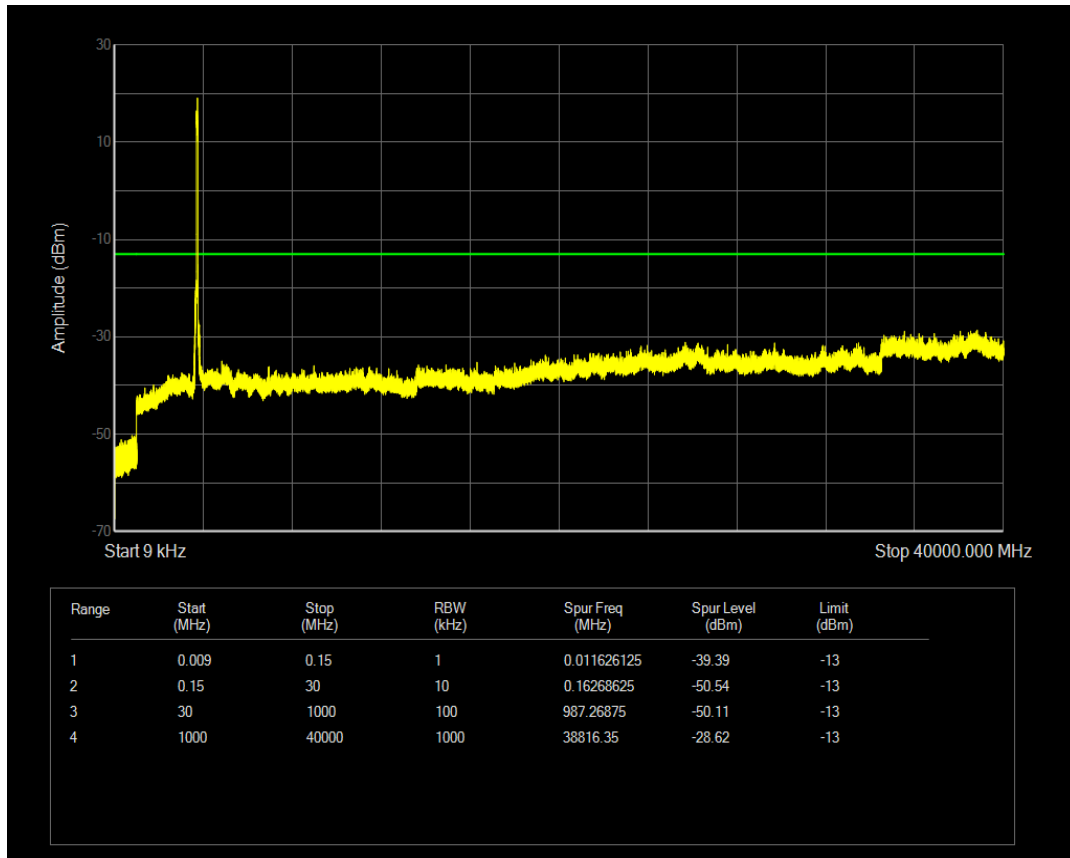
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188



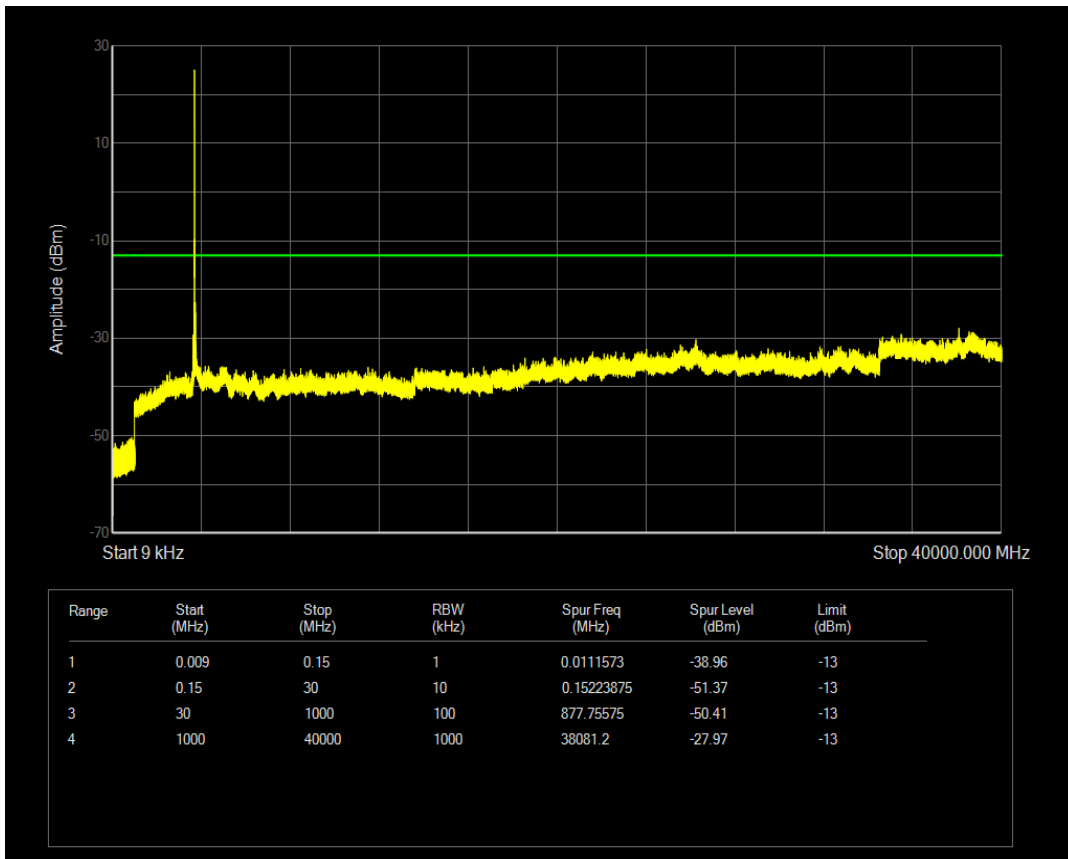
6 Out-of-band emissions for NR FR1

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	38816.35	-28.62	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	38081.20	-27.97	-13	PASS
n78(3700-3800)	30	70	649000	1@188	DFT_QPSK	38767.60	-28.33	-13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	38521.90	-28.07	-13	PASS
n78(3700-3800)	30	70	650000	1@0	DFT_QPSK	38742.25	-28.35	-13	PASS
n78(3700-3800)	30	70	650000	1@188	DFT_QPSK	38095.83	-28.44	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	38877.78	-28.26	-13	PASS
n78(3700-3800)	30	70	651000	1@0	DFT_QPSK	38562.85	-28.77	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	38952.85	-28.37	-13	PASS

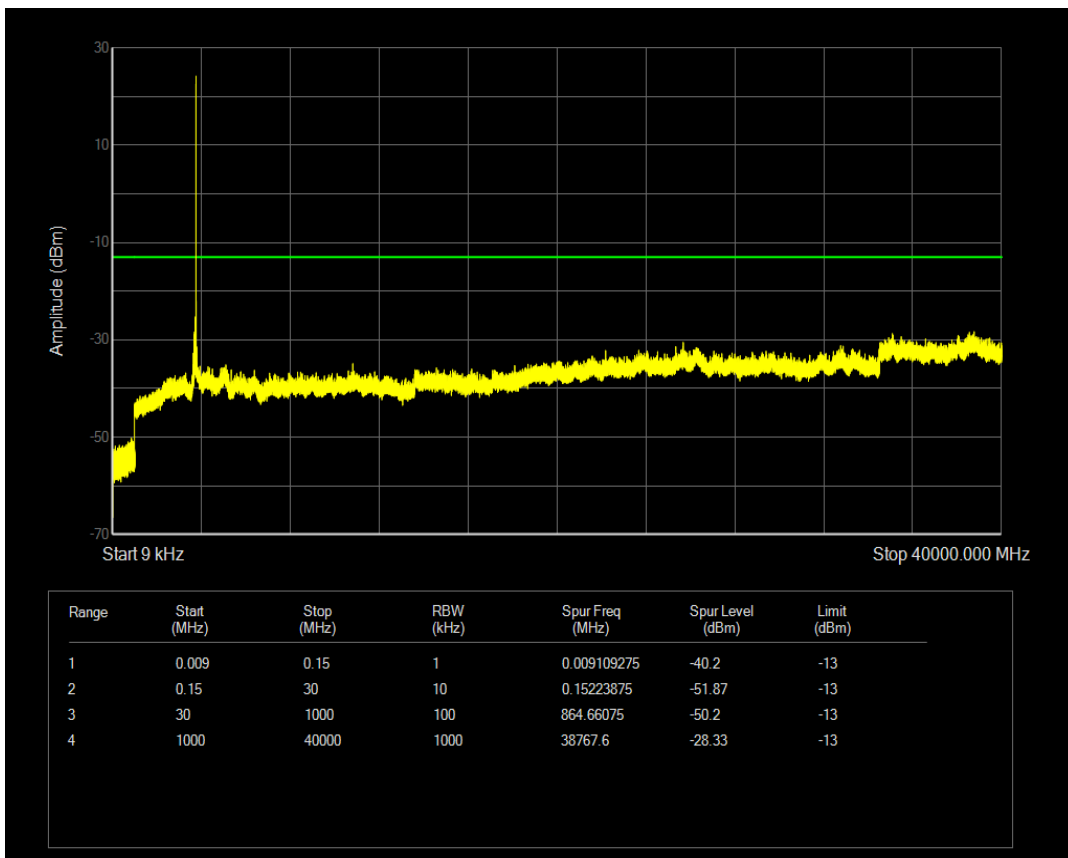
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



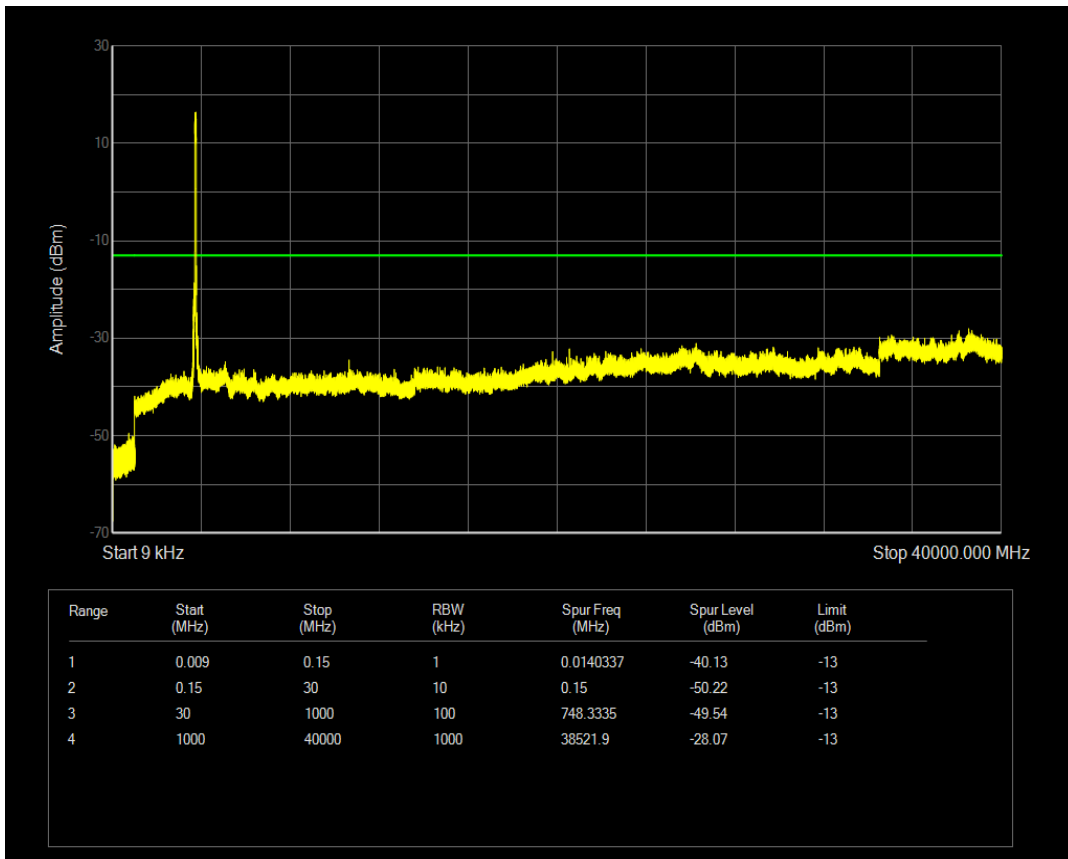
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



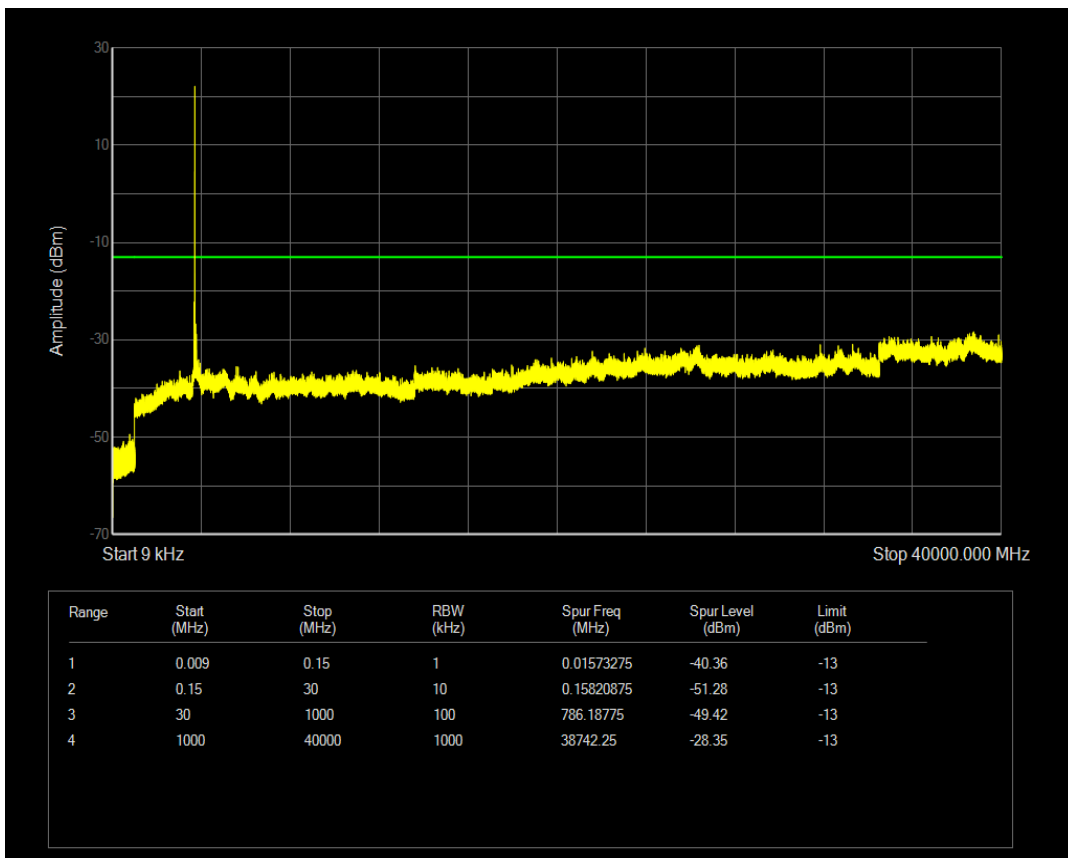
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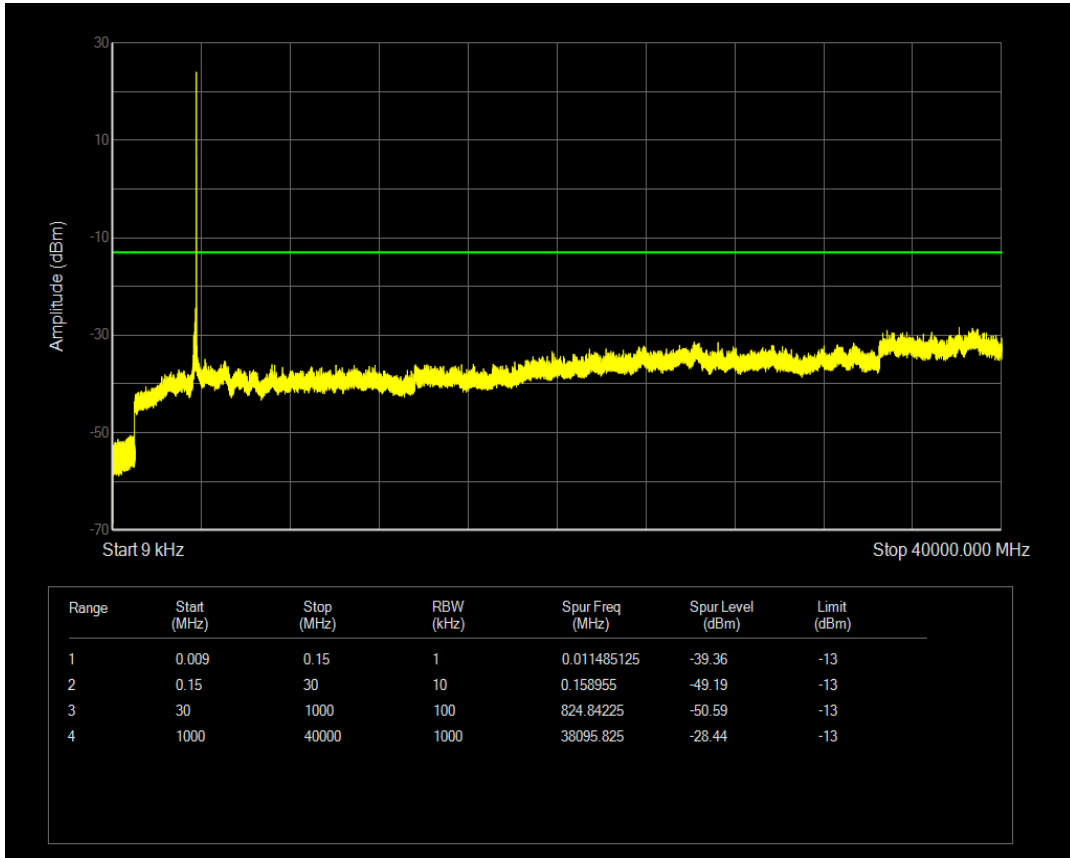
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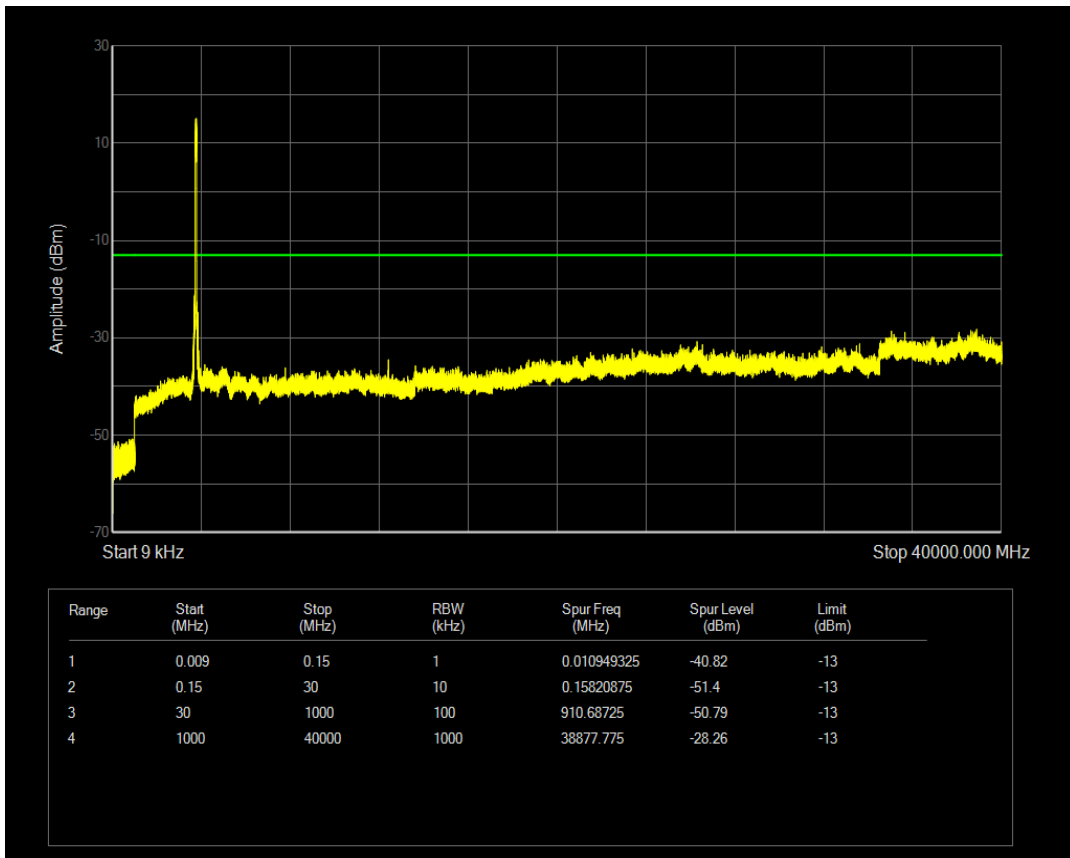
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1 @0



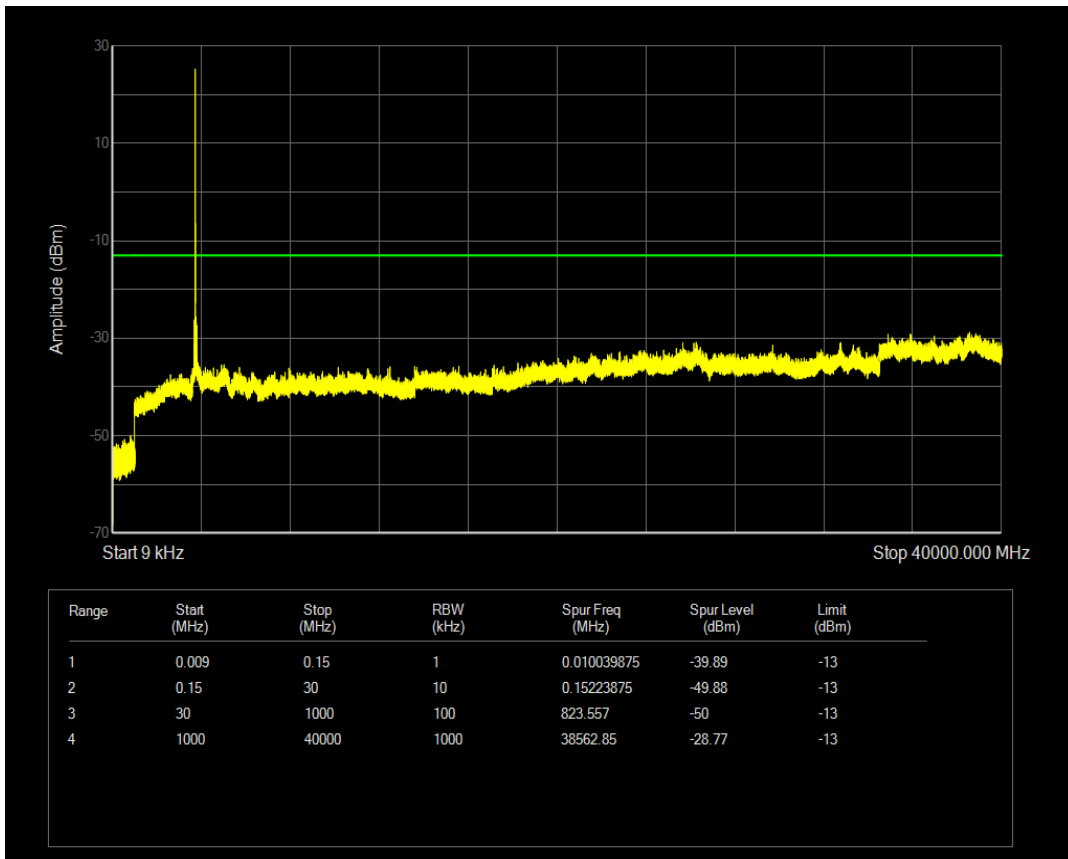
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1 @188



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

