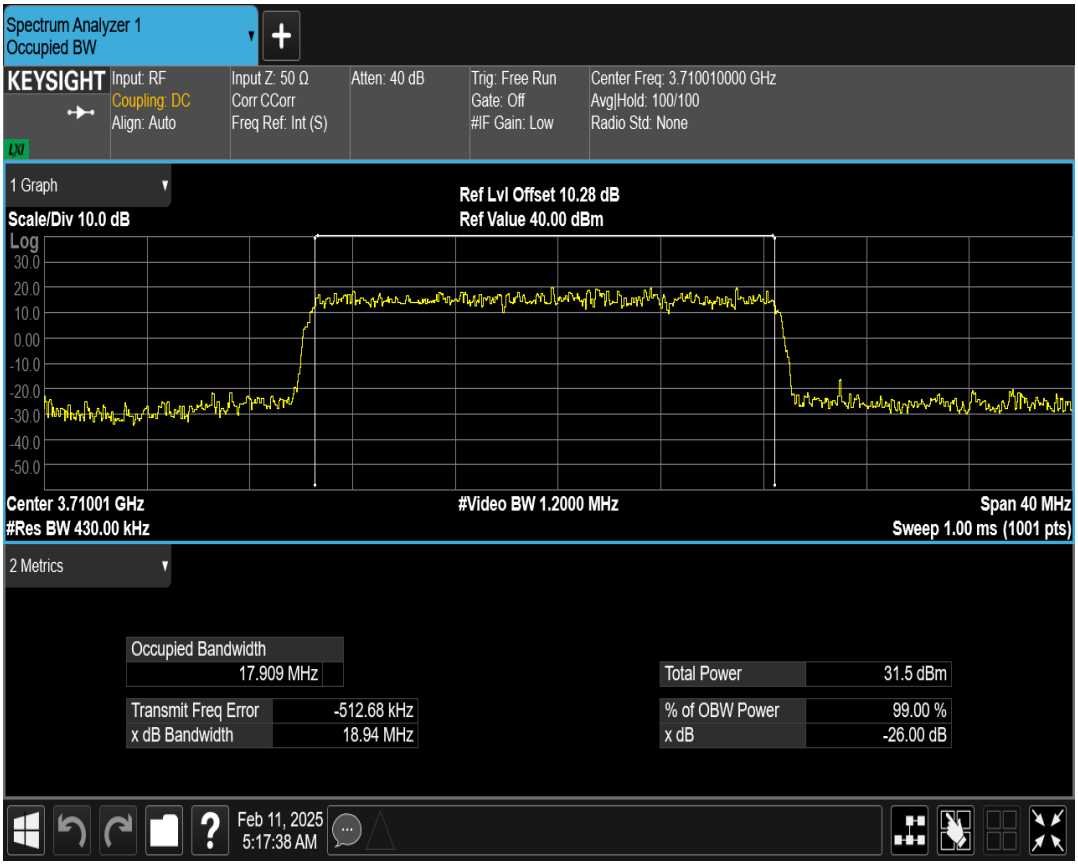
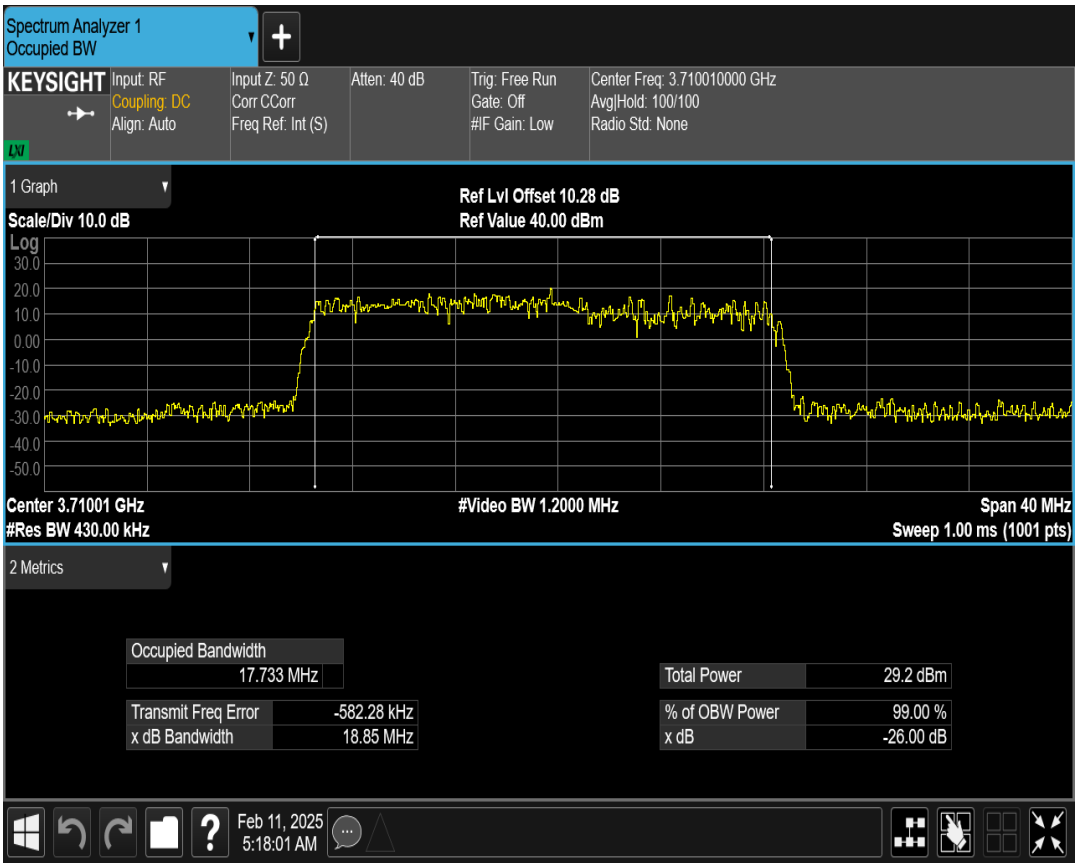
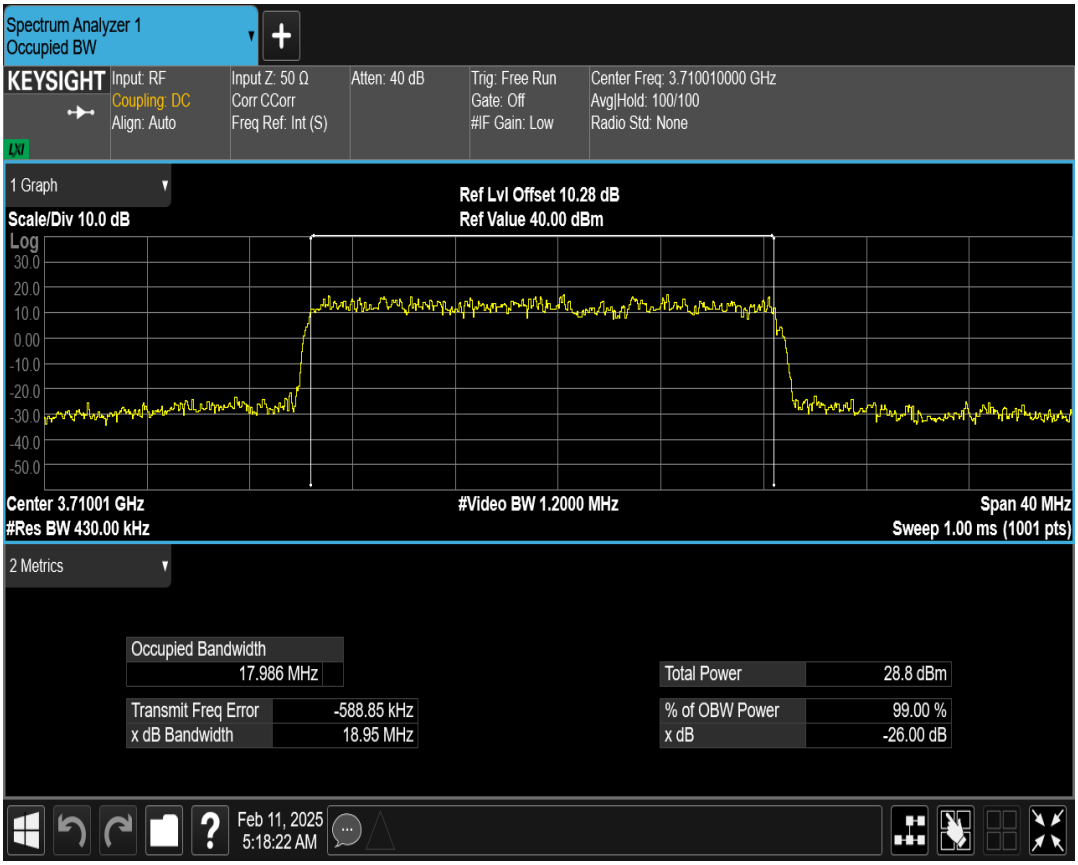
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=20MHz Channel=647334 RB=100@0



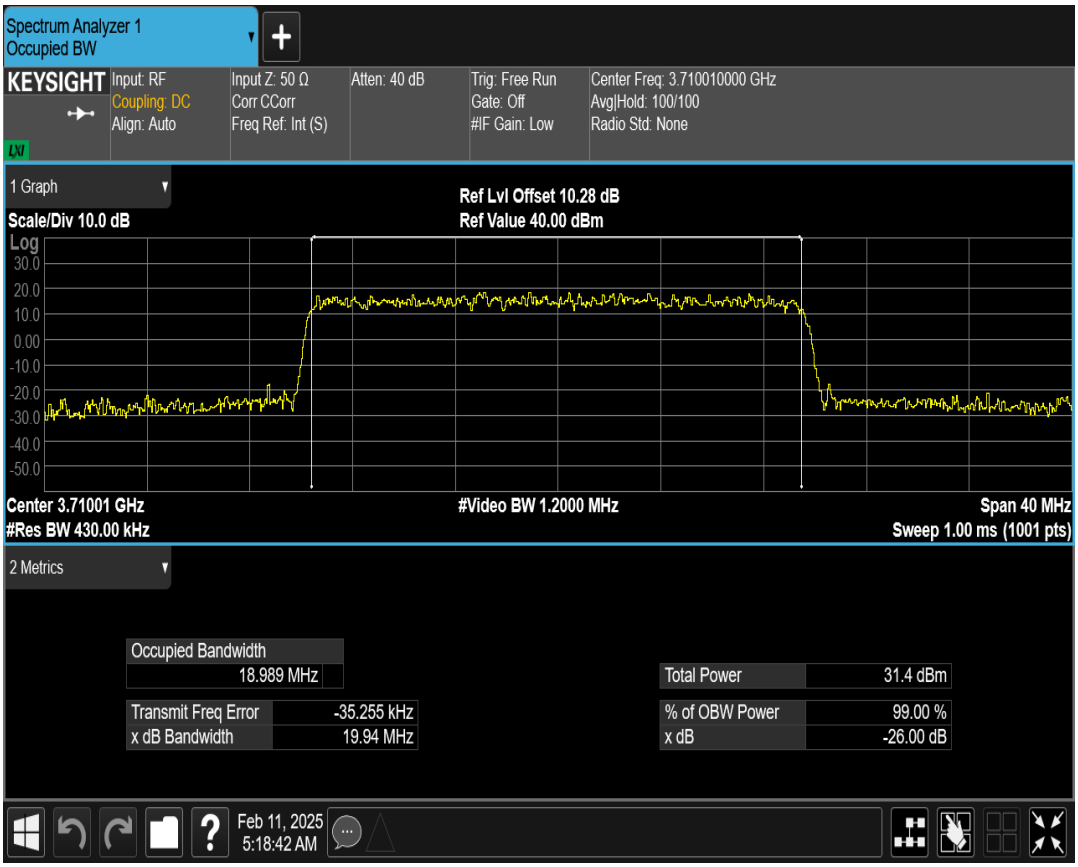
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=20MHz Channel=647334 RB=100@0



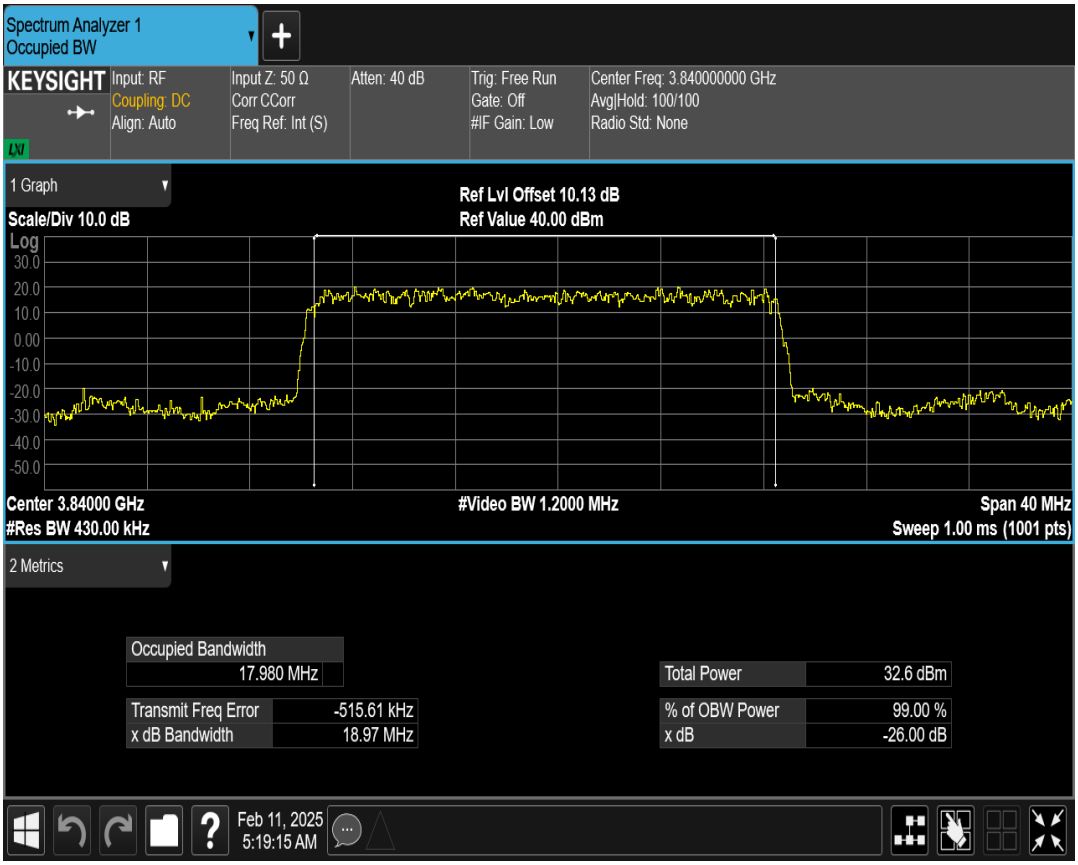
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=20MHz Channel=647334 RB=100@0



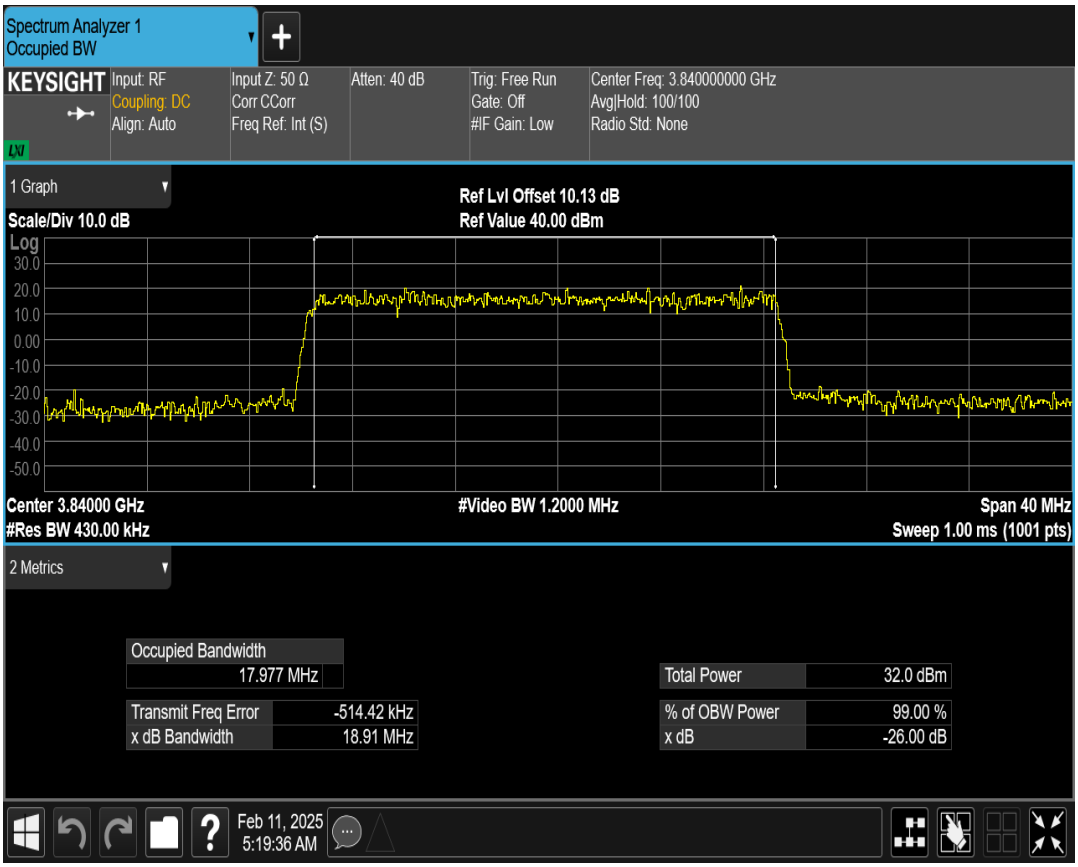
n77(3700-3980) SCS=15kHz CP_QPSK BW=20MHz Channel=647334 RB=106@0



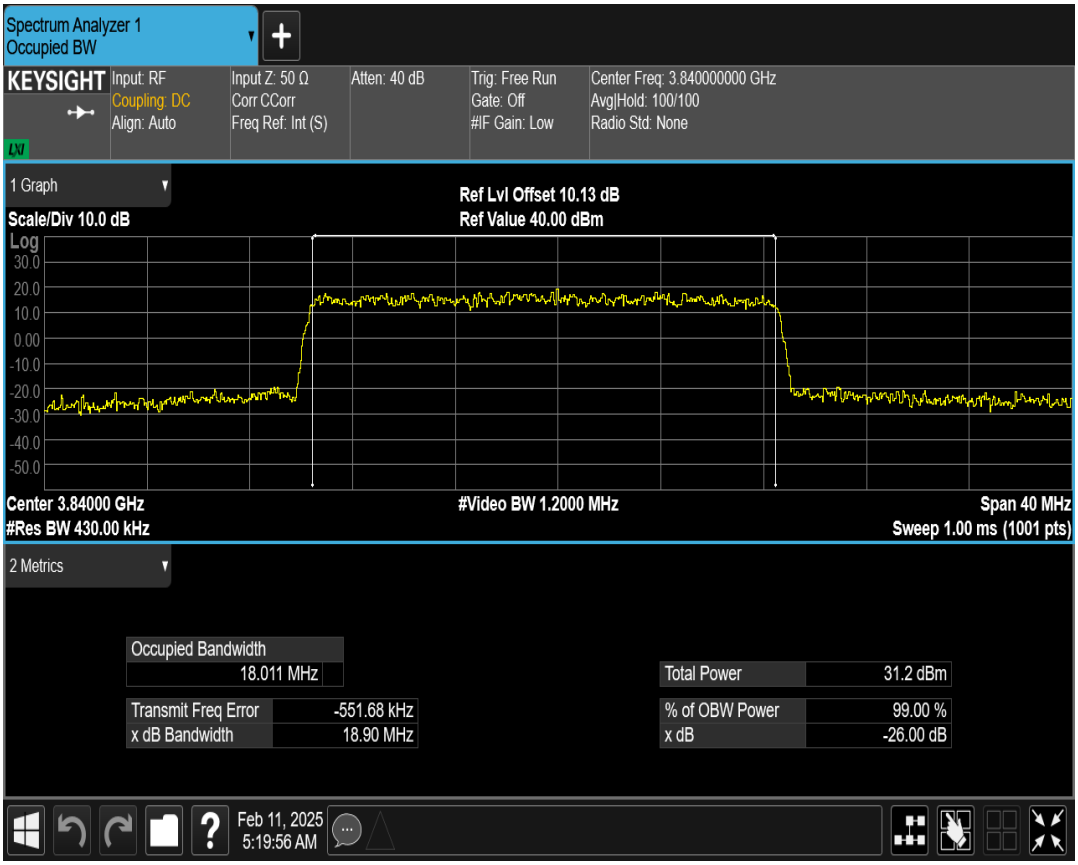
n77(3700-3980) SCS=15kHz DFT_BPSK BW=20MHz Channel=656000 RB=100@0



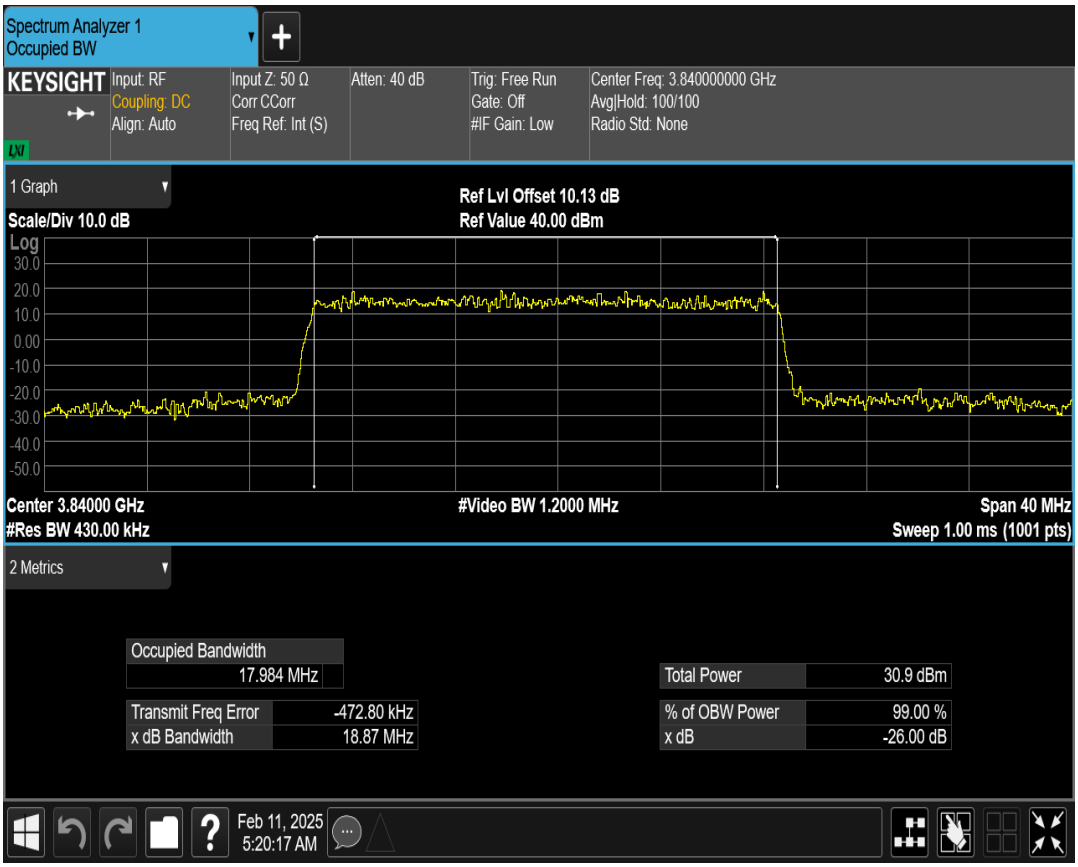
n77(3700-3980) SCS=15kHz DFT_QPSK BW=20MHz Channel=656000 RB=100@0



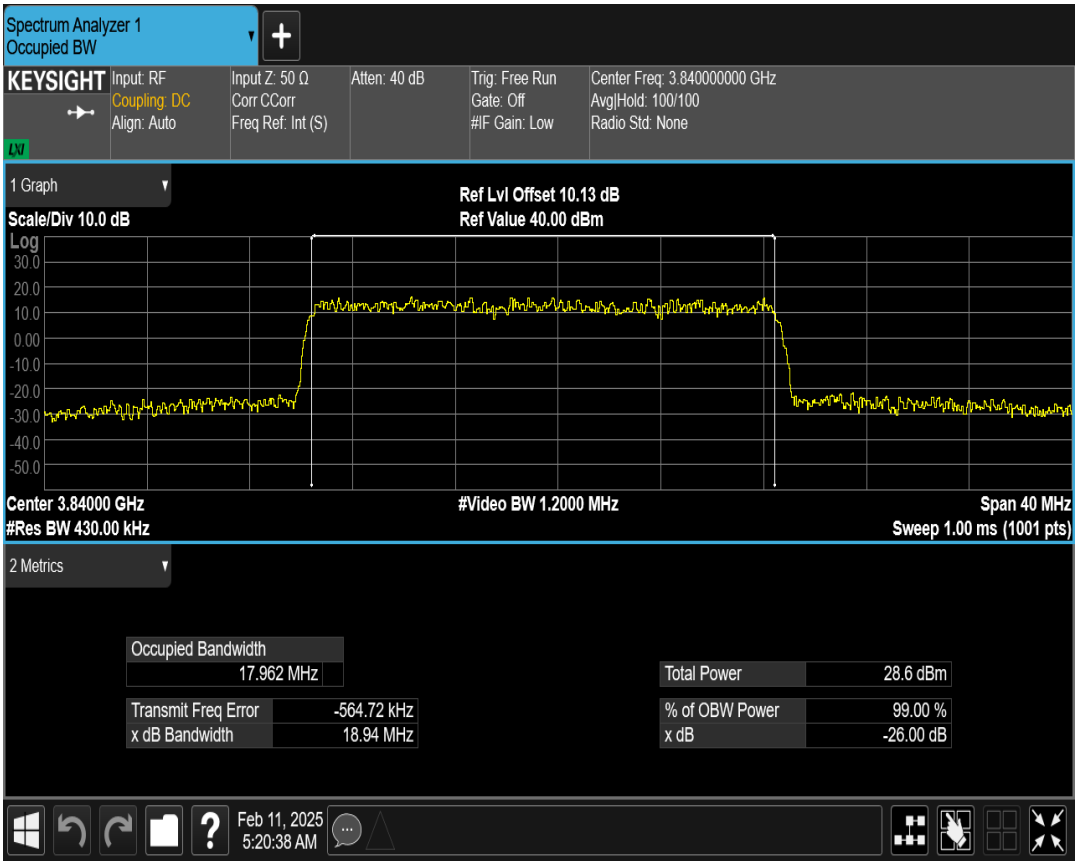
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=20MHz Channel=656000 RB=100@0



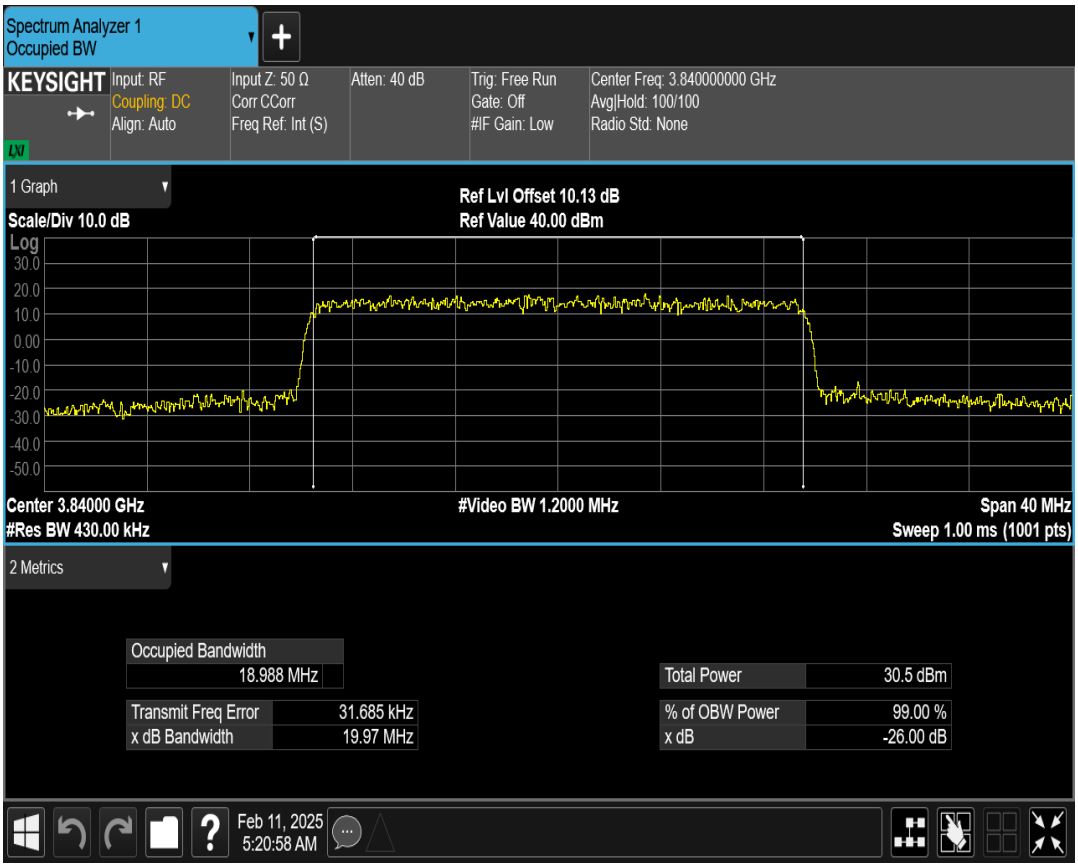
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=20MHz Channel=656000 RB=100@0



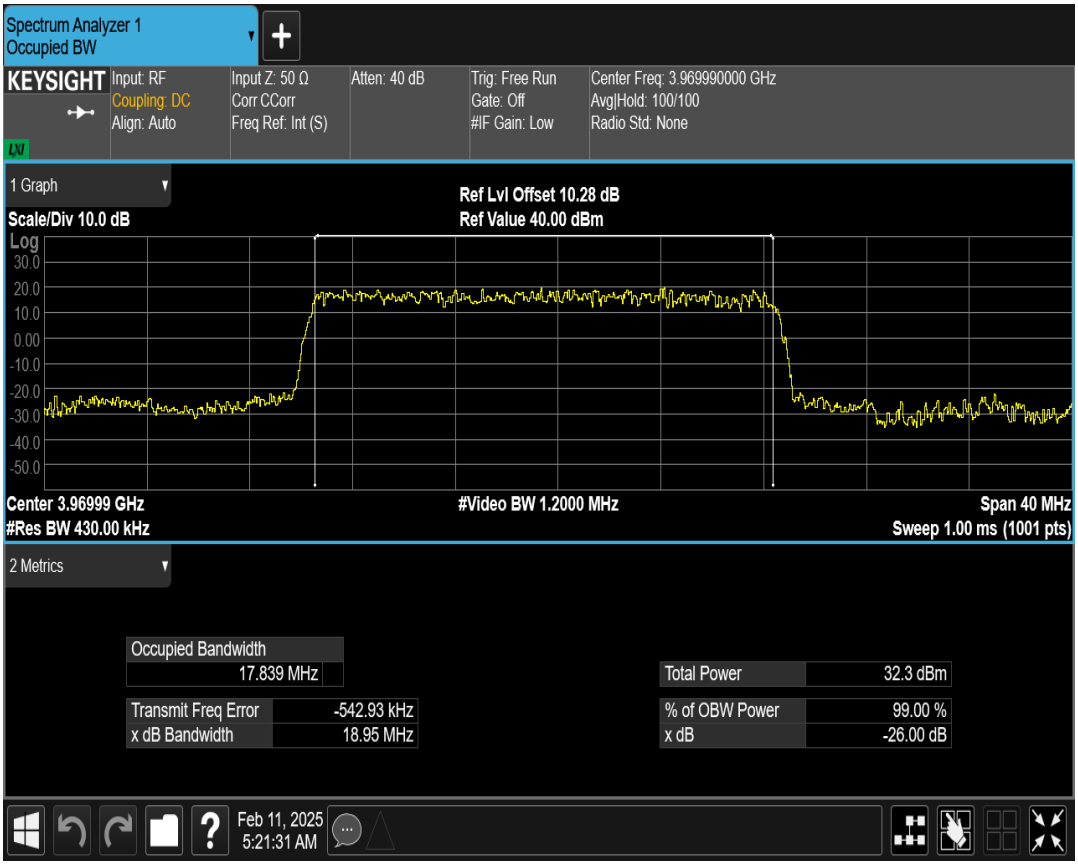
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=20MHz Channel=656000 RB=100@0



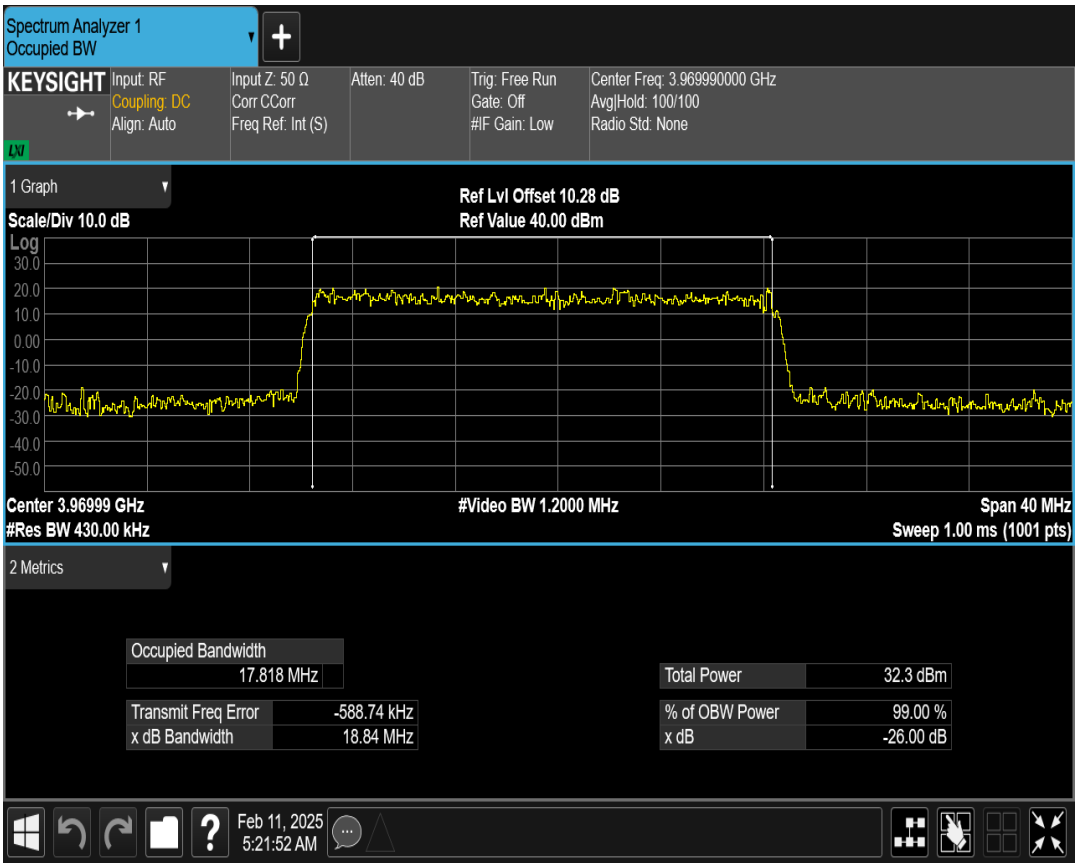
n77(3700-3980) SCS=15kHz CP_QPSK BW=20MHz Channel=656000 RB=106@0



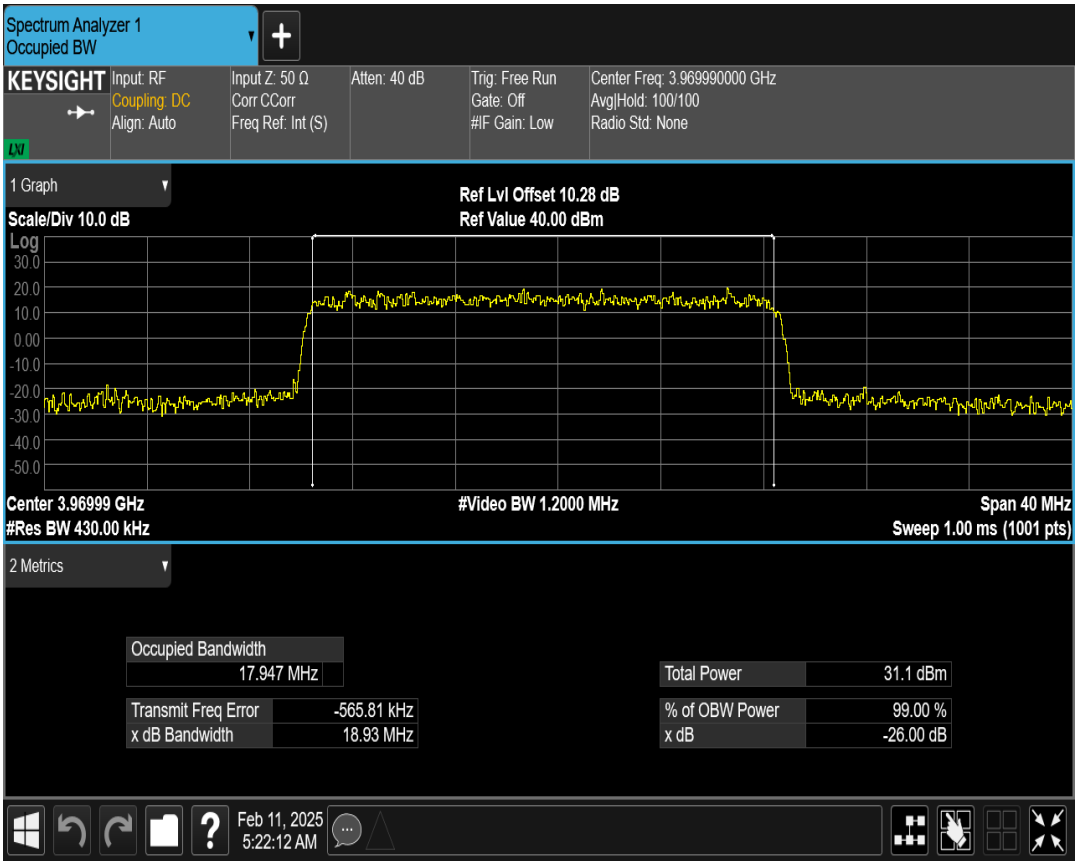
n77(3700-3980) SCS=15kHz DFT_BPSK BW=20MHz Channel=664666 RB=100@0



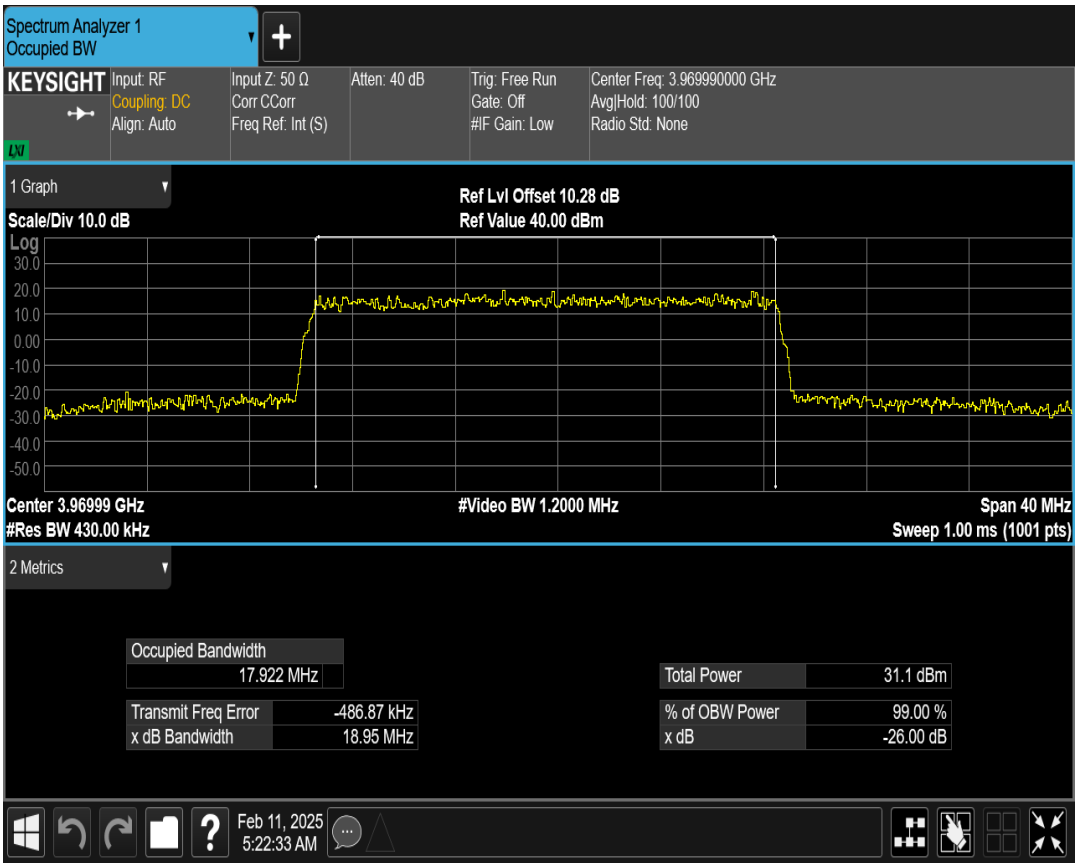
n77(3700-3980) SCS=15kHz DFT_QPSK BW=20MHz Channel=664666 RB=100@0



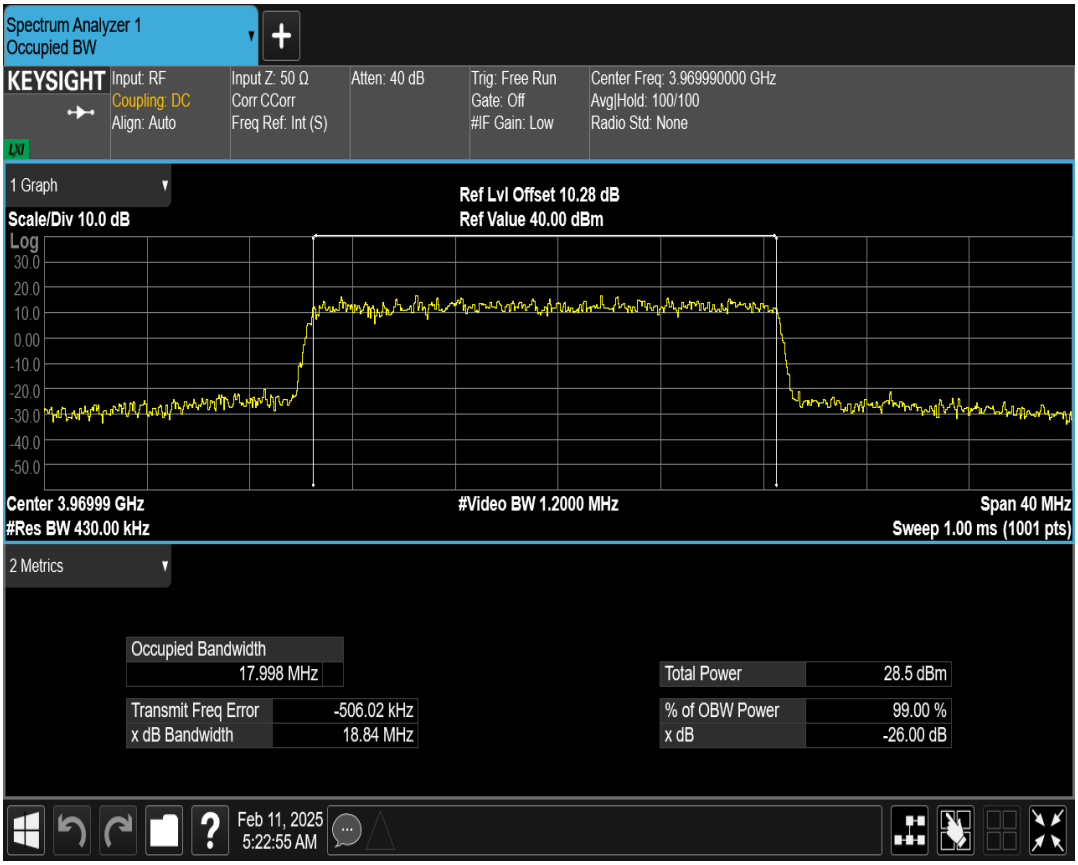
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=20MHz Channel=664666 RB=100@0



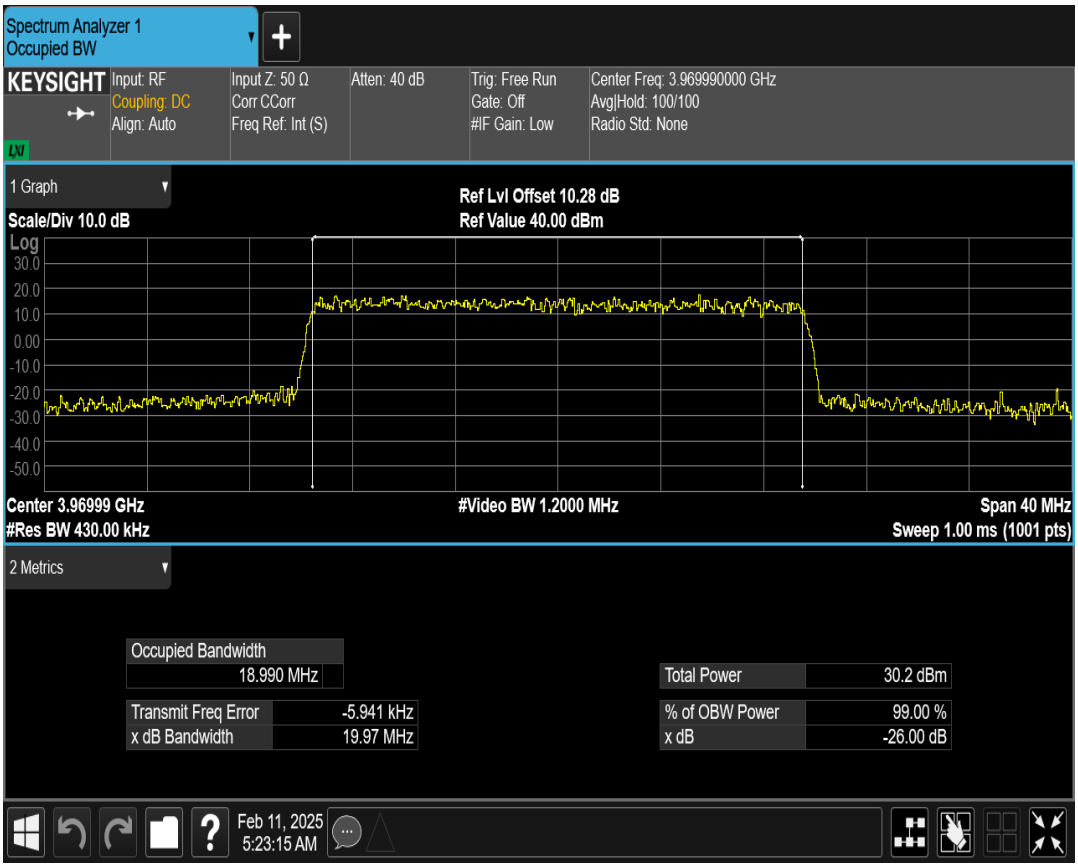
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=20MHz Channel=664666 RB=100@0



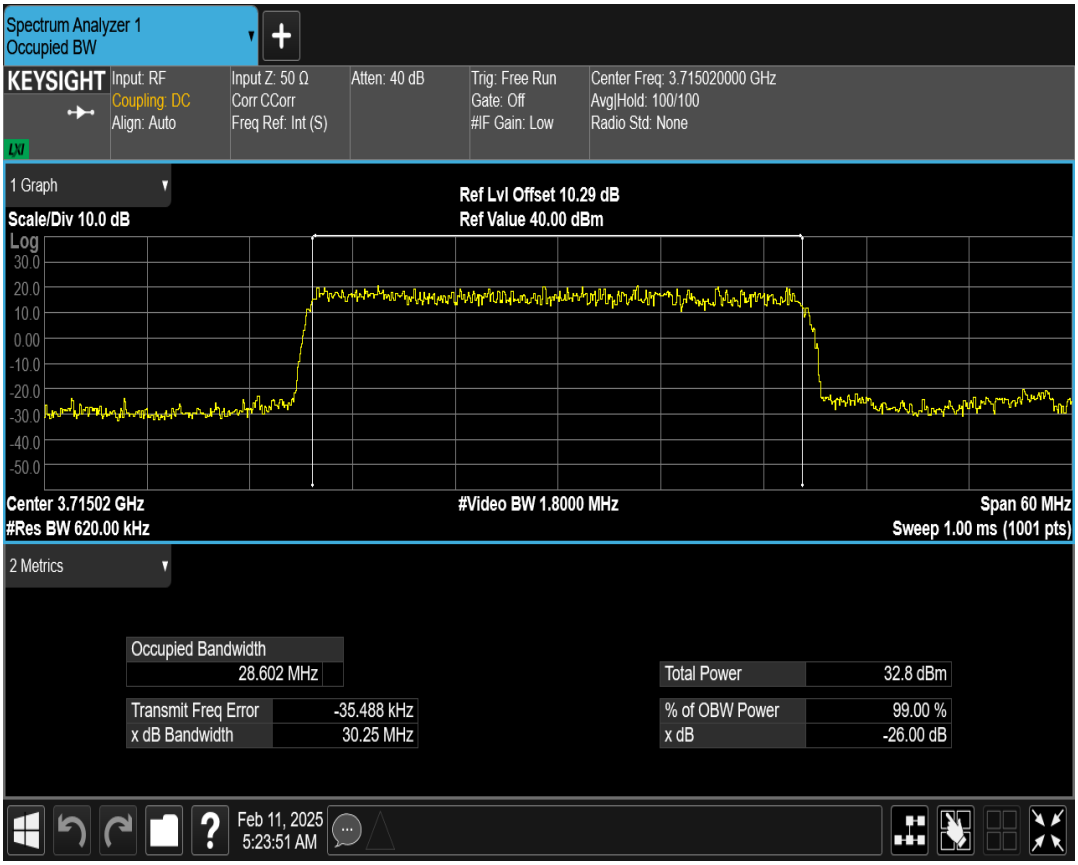
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=20MHz Channel=664666 RB=100@0



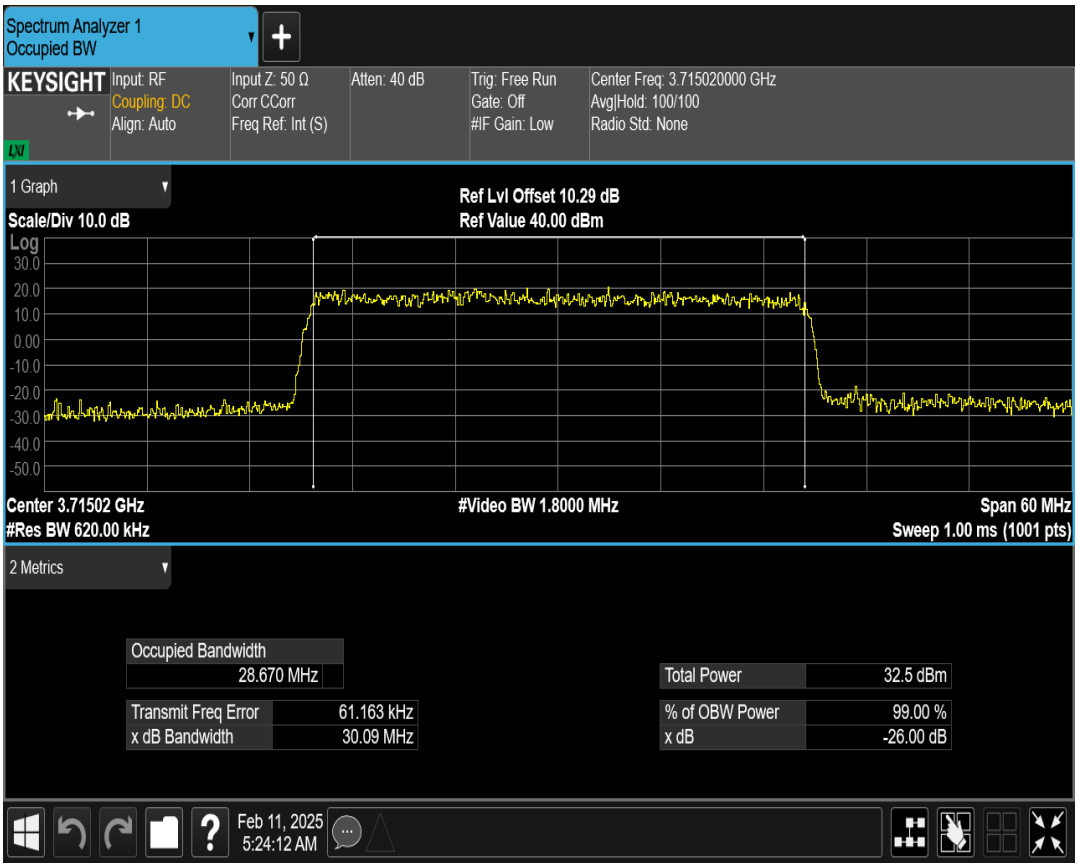
n77(3700-3980) SCS=15kHz CP_QPSK BW=20MHz Channel=664666 RB=106@0



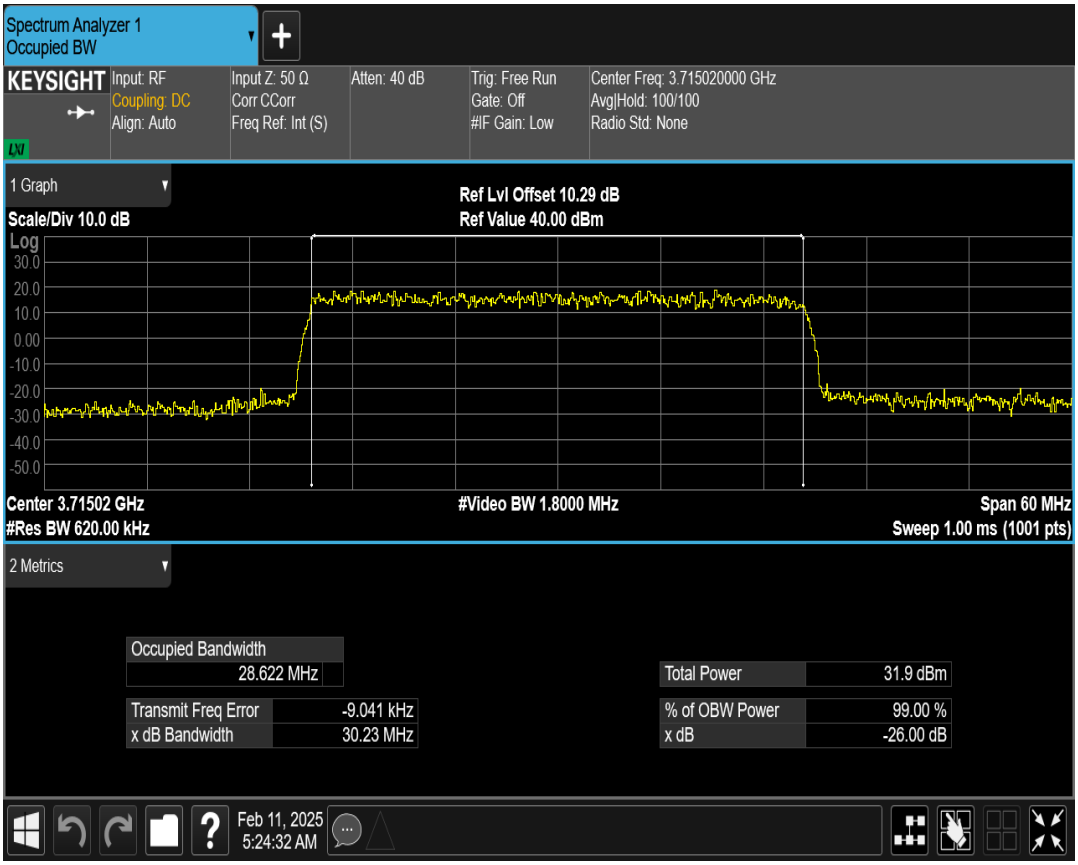
n77(3700-3980) SCS=15kHz DFT_BPSK BW=30MHz Channel=647668 RB=160@0



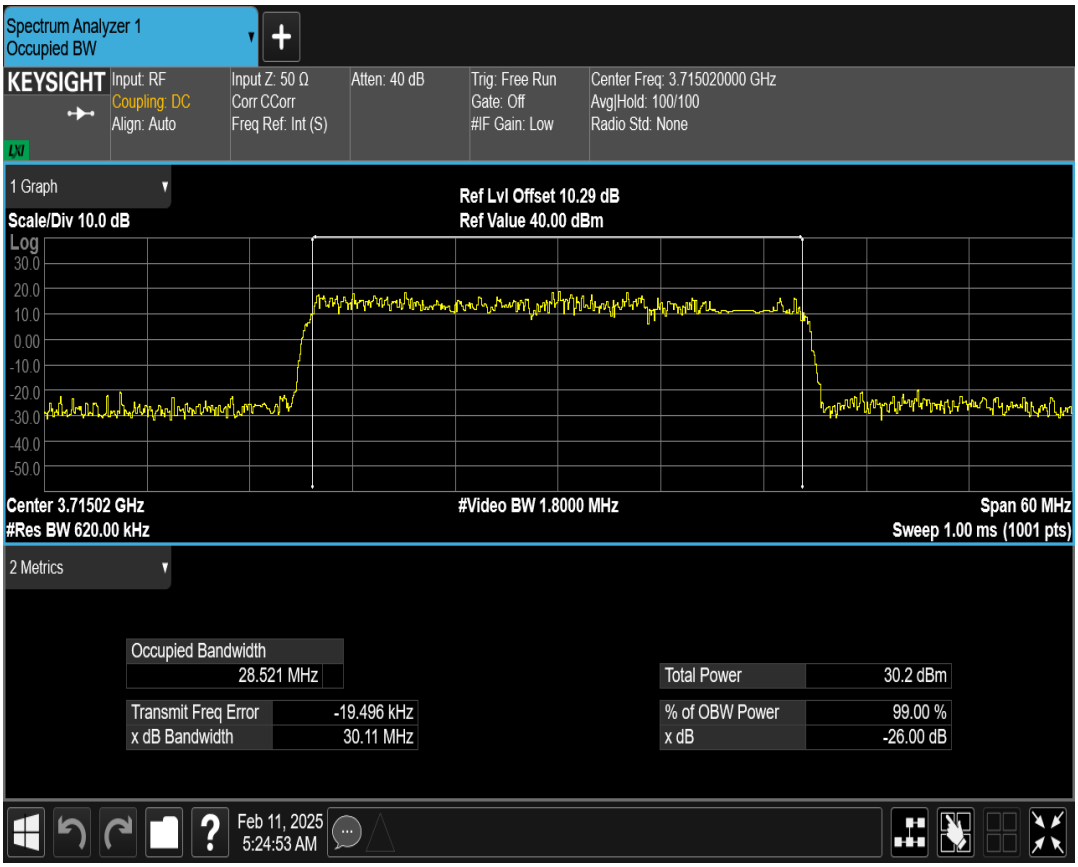
n77(3700-3980) SCS=15kHz DFT_QPSK BW=30MHz Channel=647668 RB=160@0



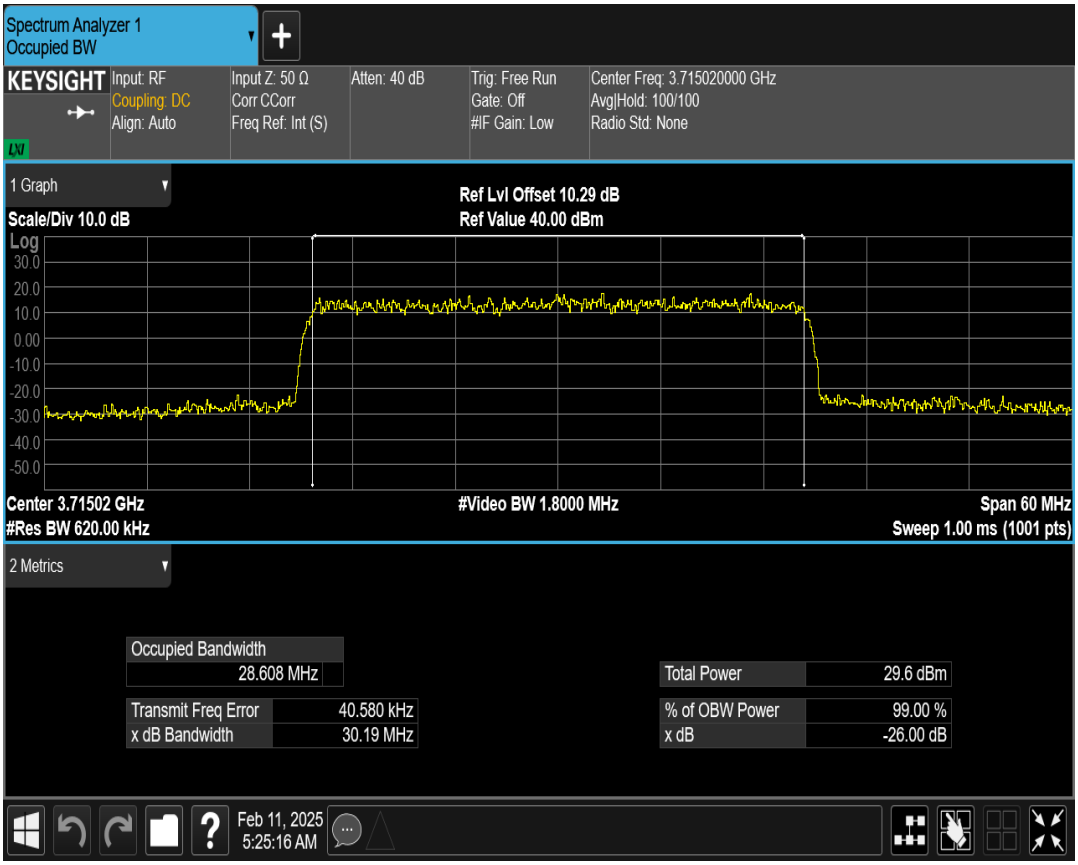
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=30MHz Channel=647668 RB=160@0



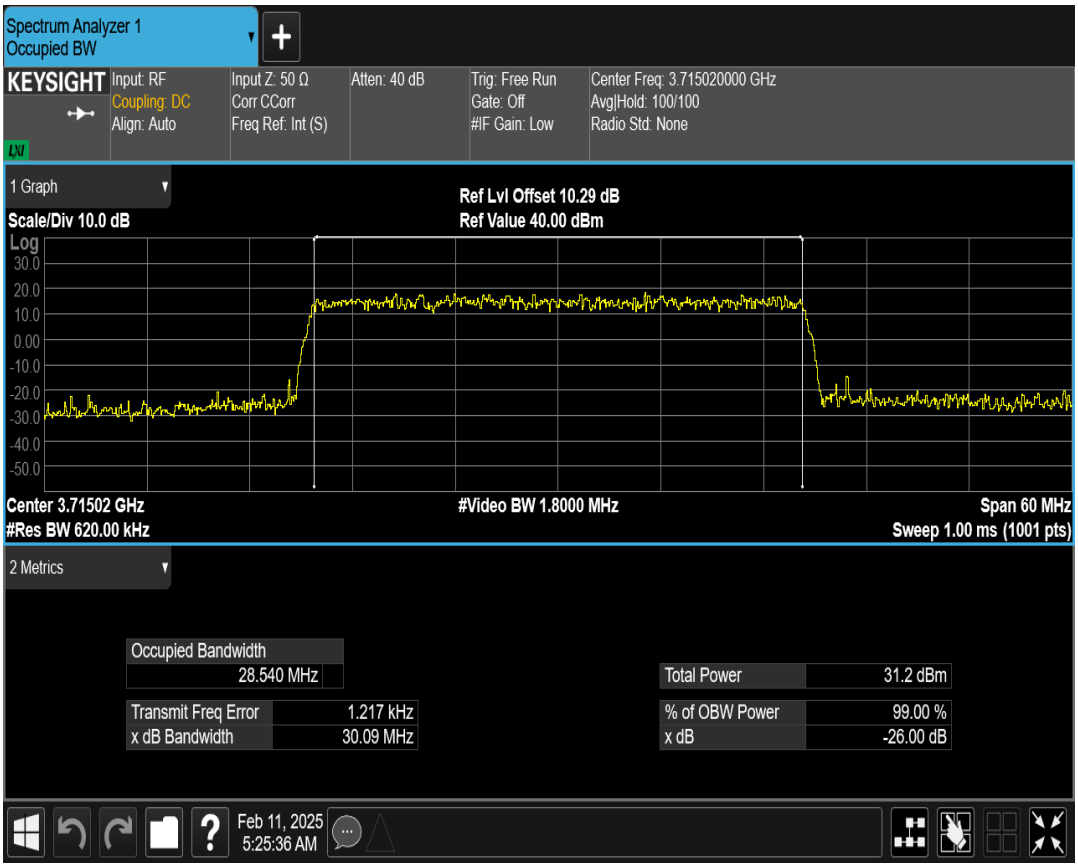
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=30MHz Channel=647668 RB=160@0



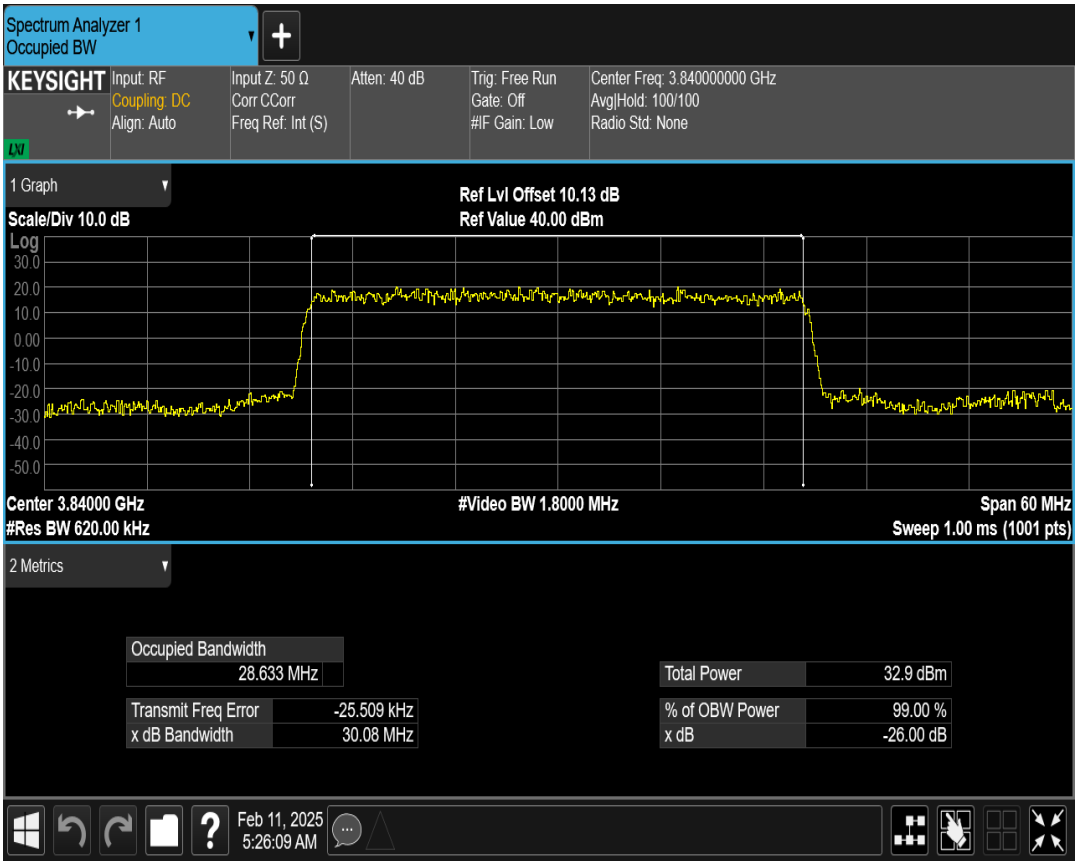
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=30MHz Channel=647668 RB=160@0



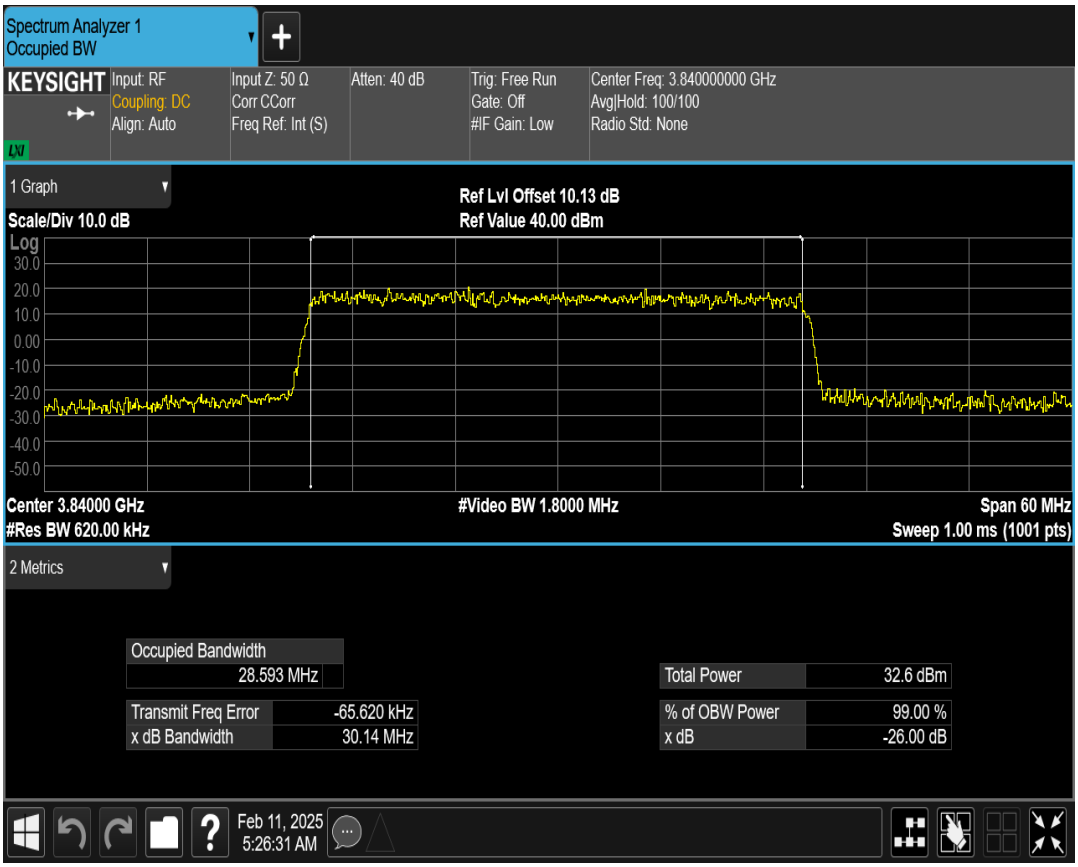
n77(3700-3980) SCS=15kHz CP_QPSK BW=30MHz Channel=647668 RB=160@0



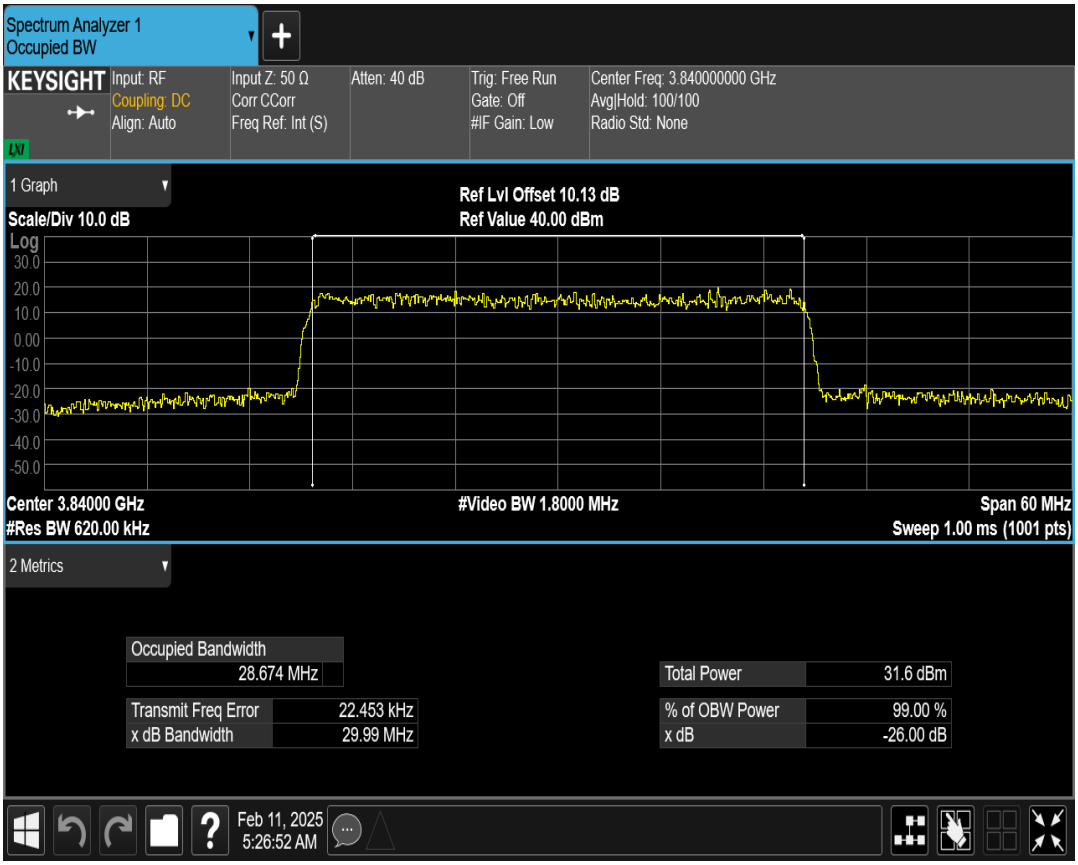
n77(3700-3980) SCS=15kHz DFT_BPSK BW=30MHz Channel=656000 RB=160@0



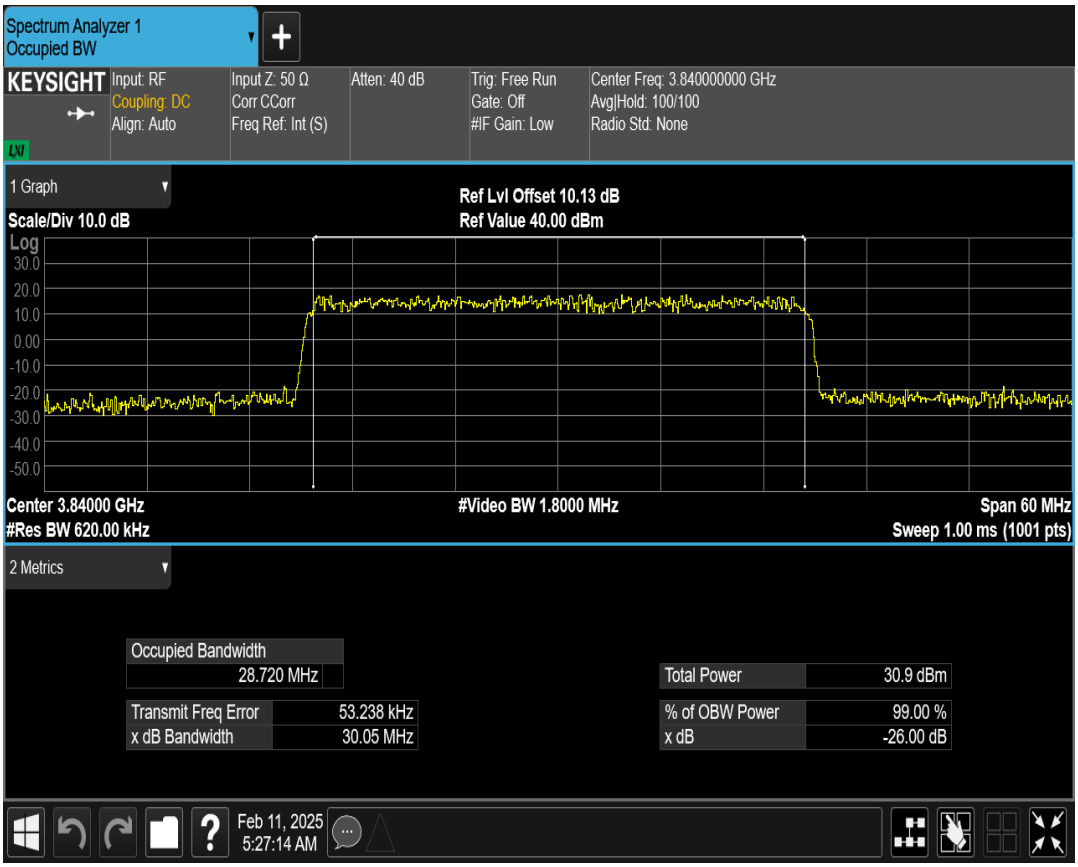
n77(3700-3980) SCS=15kHz DFT_QPSK BW=30MHz Channel=656000 RB=160@0



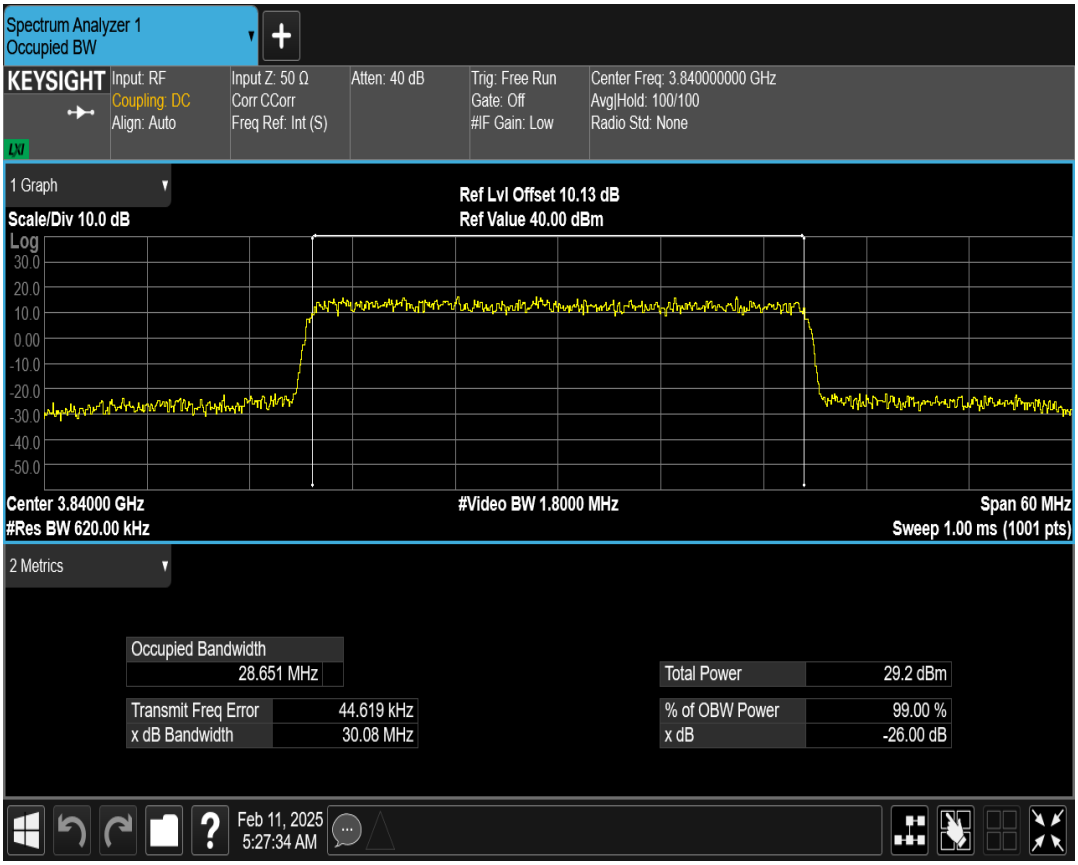
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=30MHz Channel=656000 RB=160@0



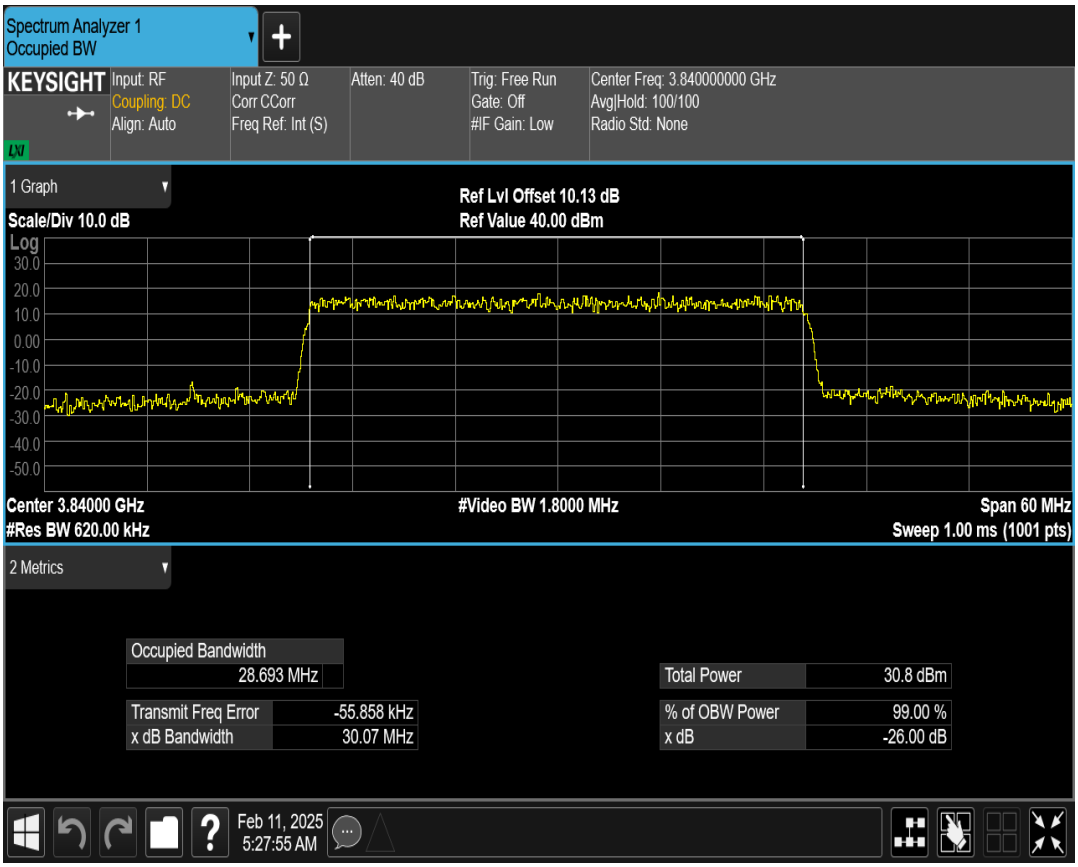
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=30MHz Channel=656000 RB=160@0



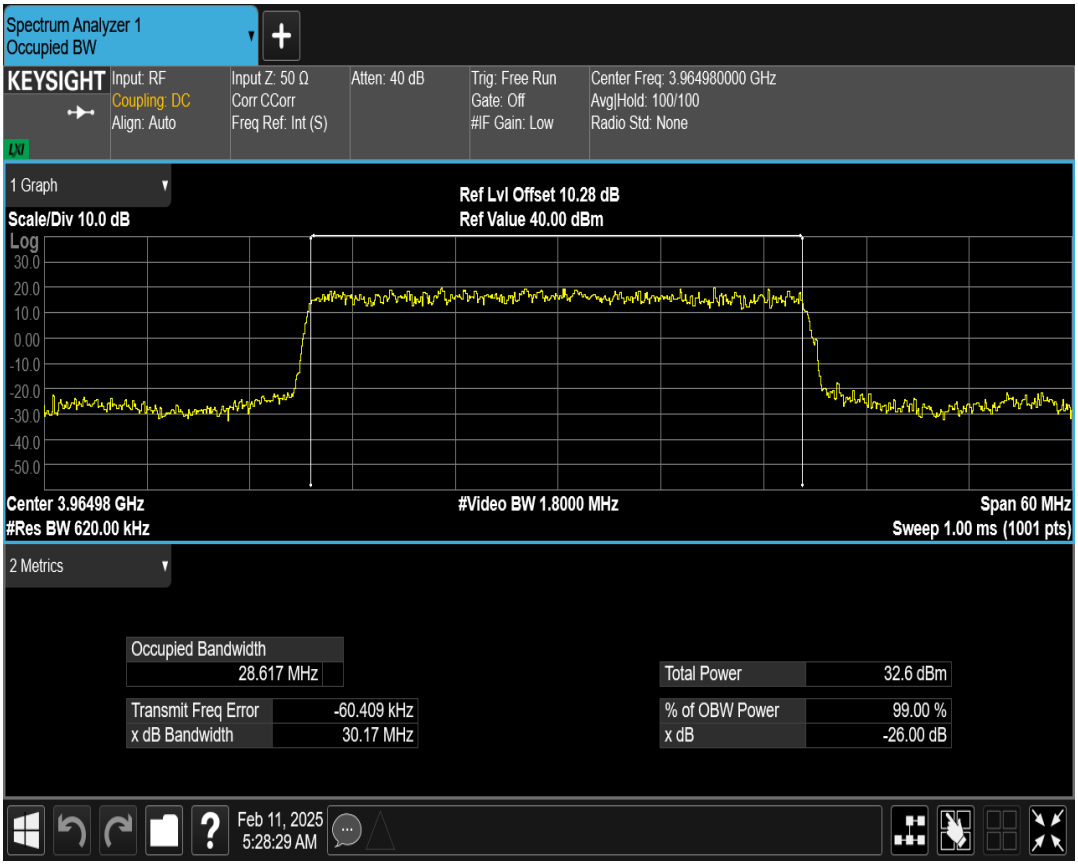
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=30MHz Channel=656000 RB=160@0



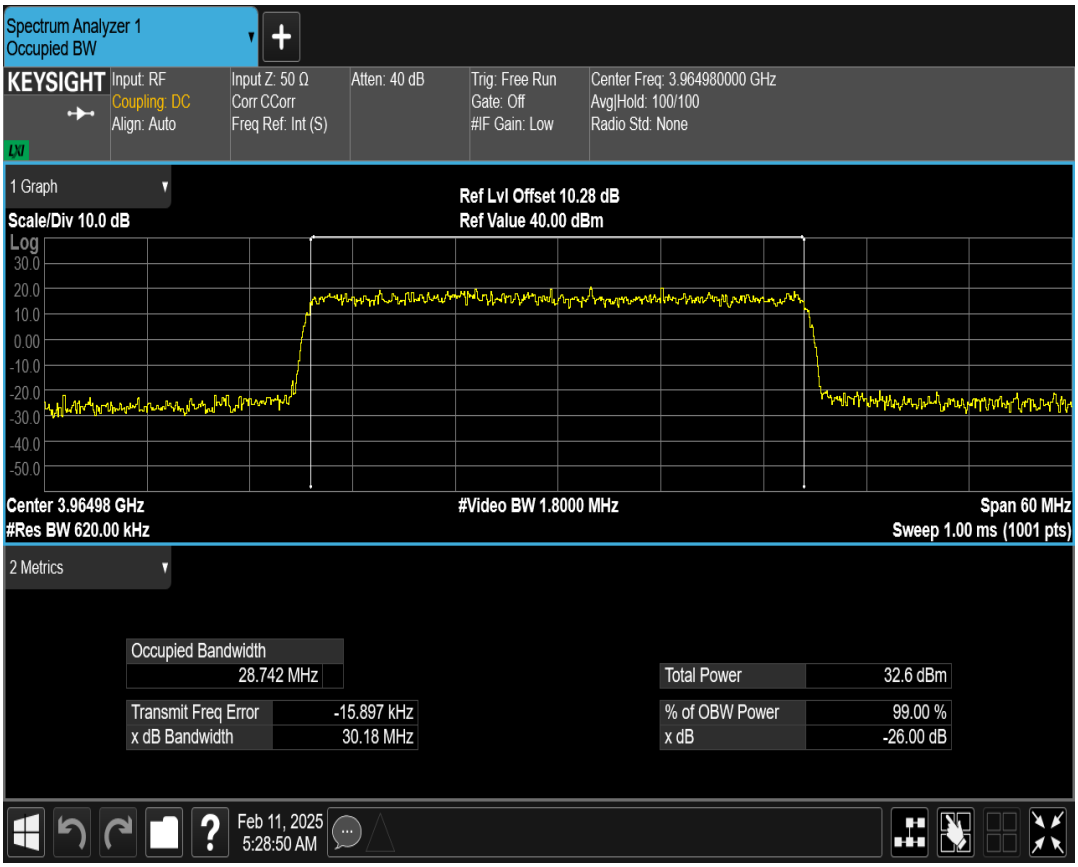
n77(3700-3980) SCS=15kHz CP_QPSK BW=30MHz Channel=656000 RB=160@0



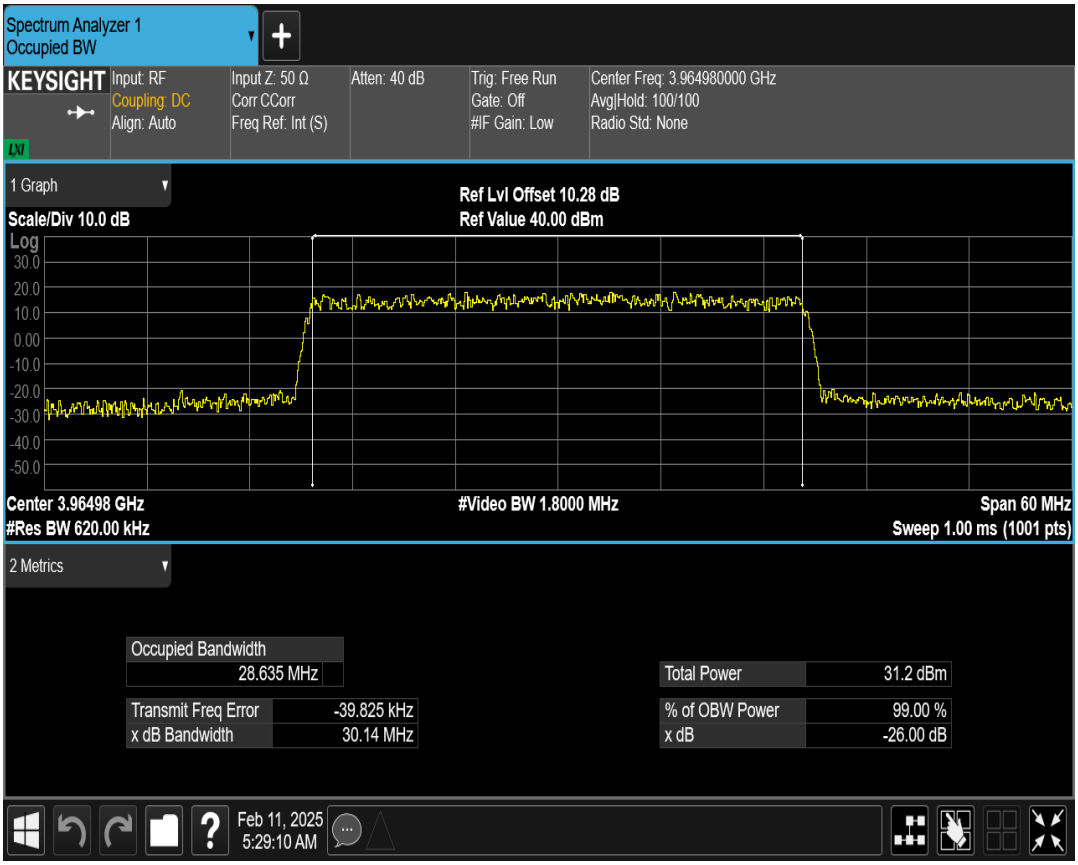
n77(3700-3980) SCS=15kHz DFT_BPSK BW=30MHz Channel=664332 RB=160@0



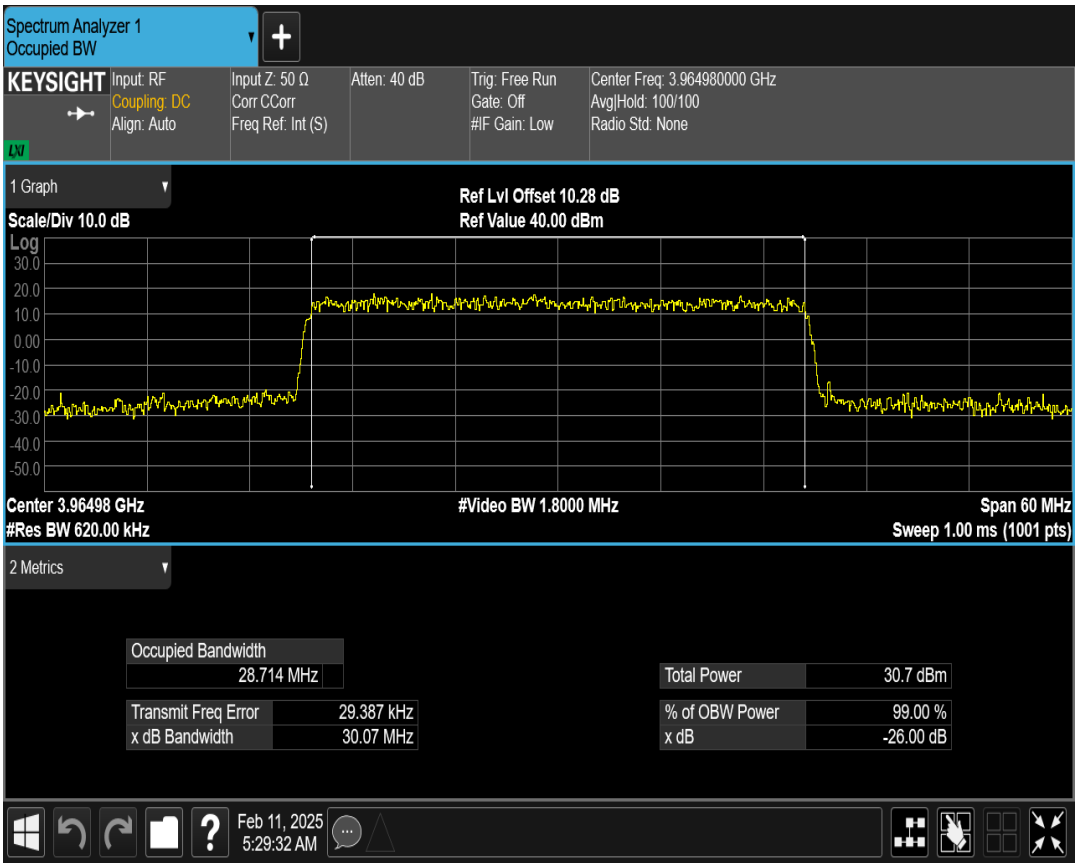
n77(3700-3980) SCS=15kHz DFT_QPSK BW=30MHz Channel=664332 RB=160@0



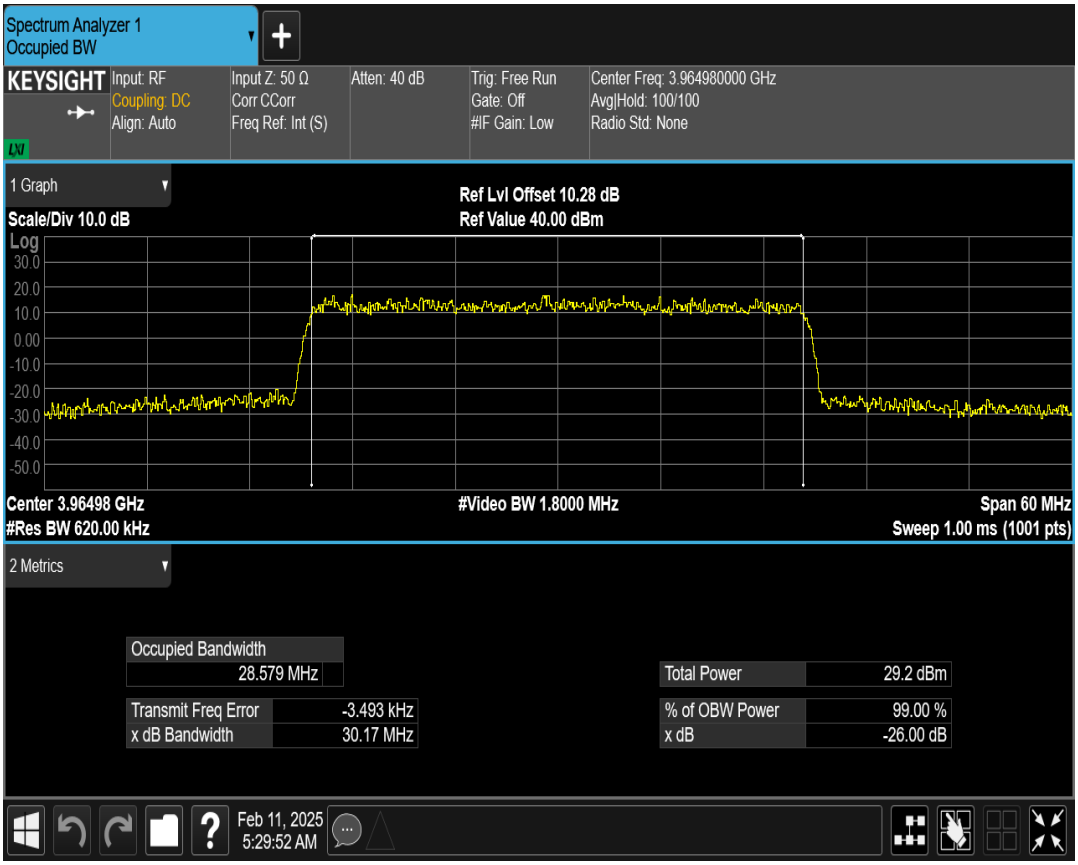
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=30MHz Channel=664332 RB=160@0



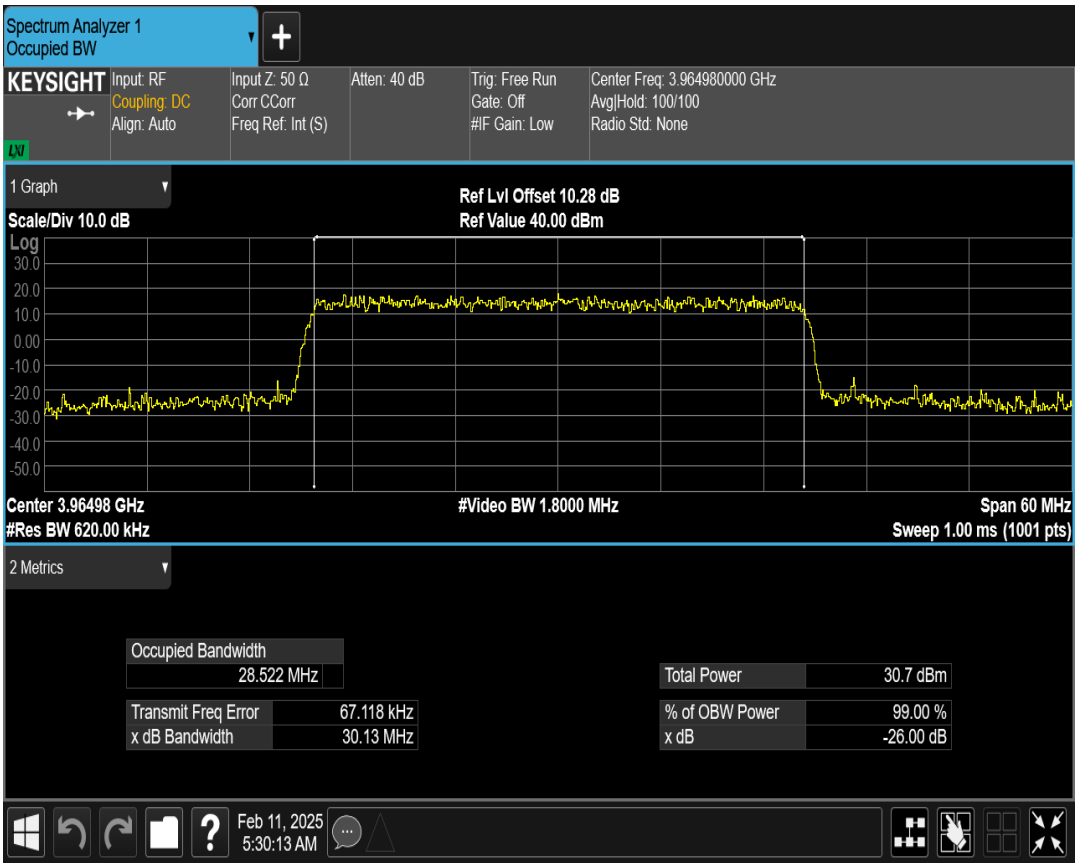
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=30MHz Channel=664332 RB=160@0



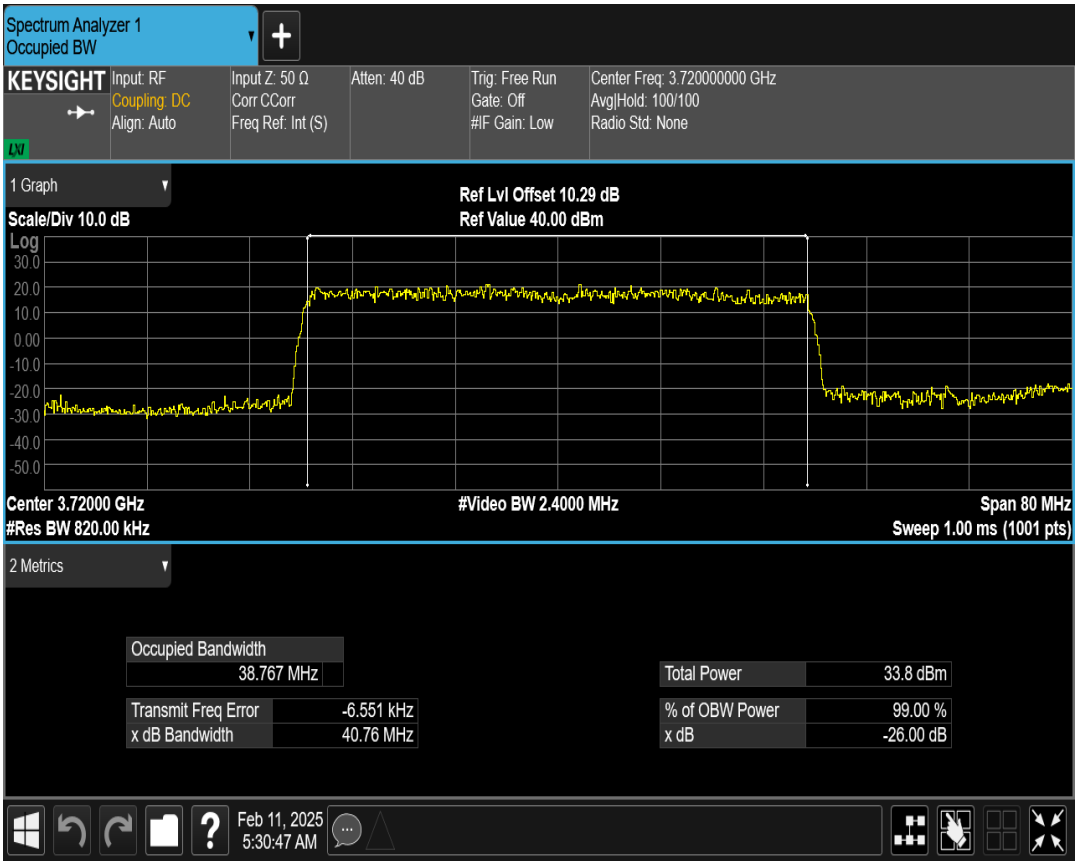
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=30MHz Channel=664332 RB=160@0



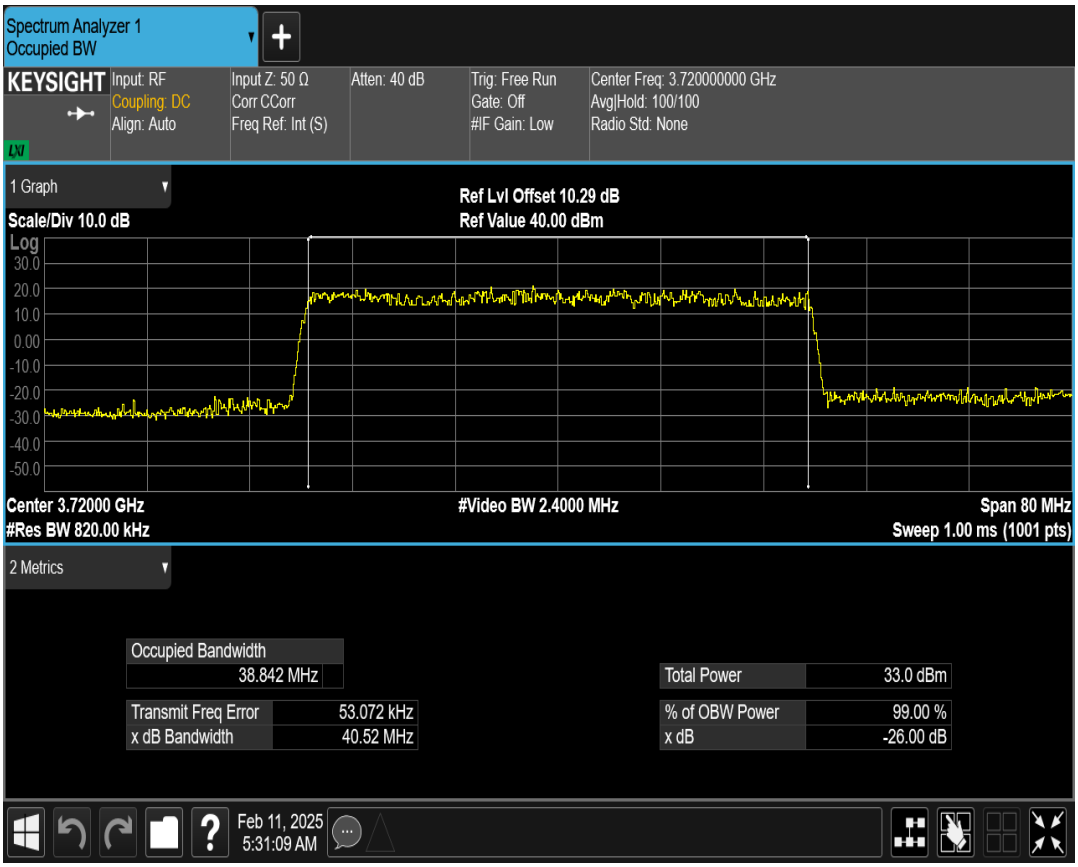
n77(3700-3980) SCS=15kHz CP_QPSK BW=30MHz Channel=664332 RB=160@0



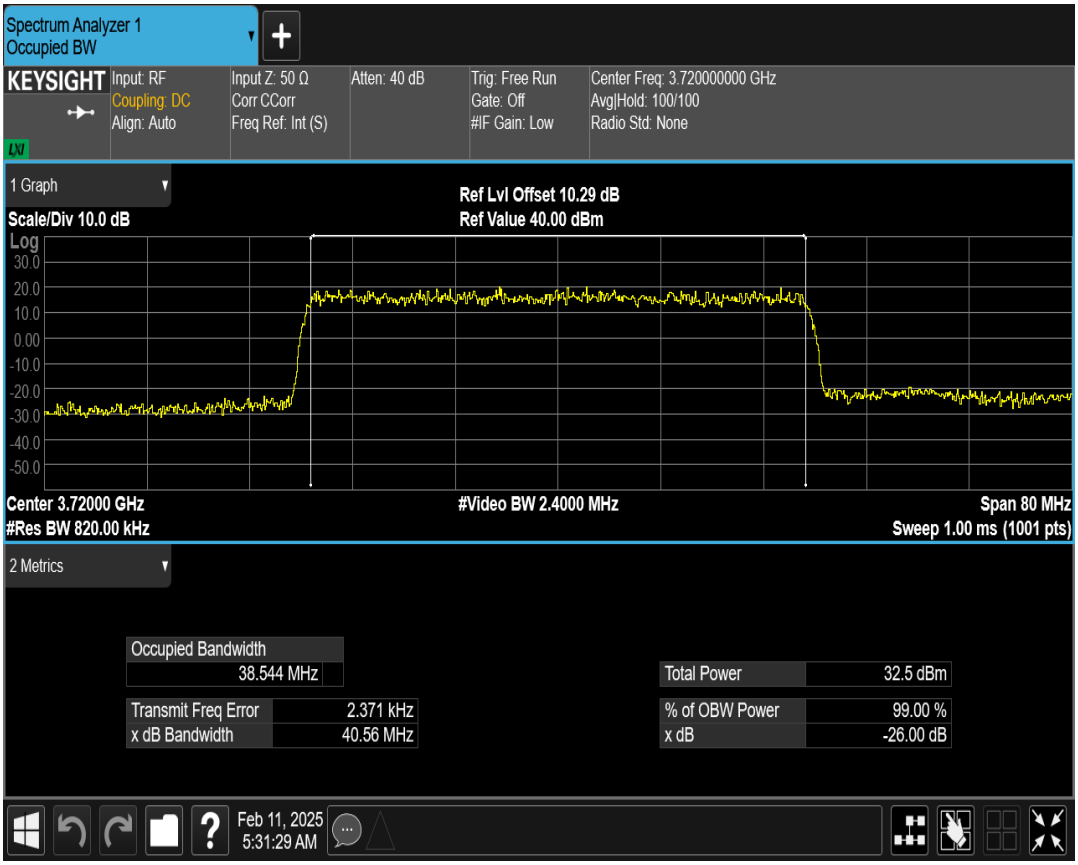
n77(3700-3980) SCS=15kHz DFT_BPSK BW=40MHz Channel=648000 RB=216@0



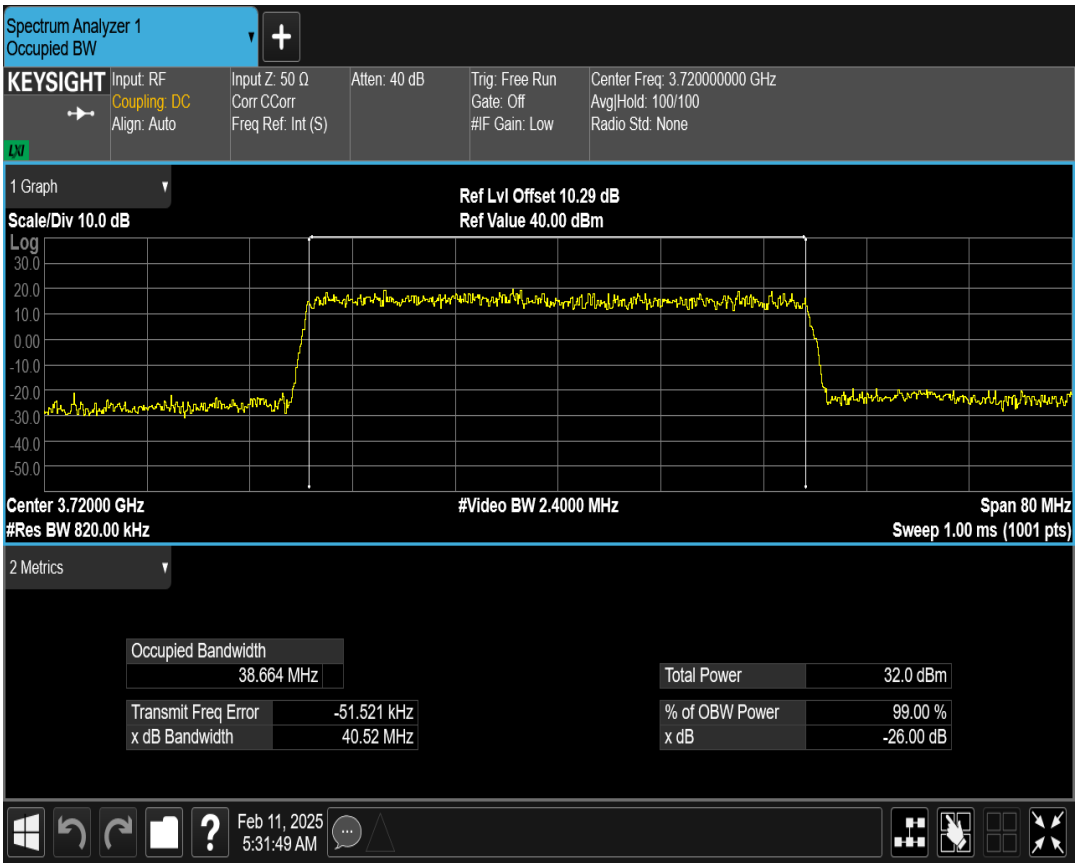
n77(3700-3980) SCS=15kHz DFT_QPSK BW=40MHz Channel=648000 RB=216@0



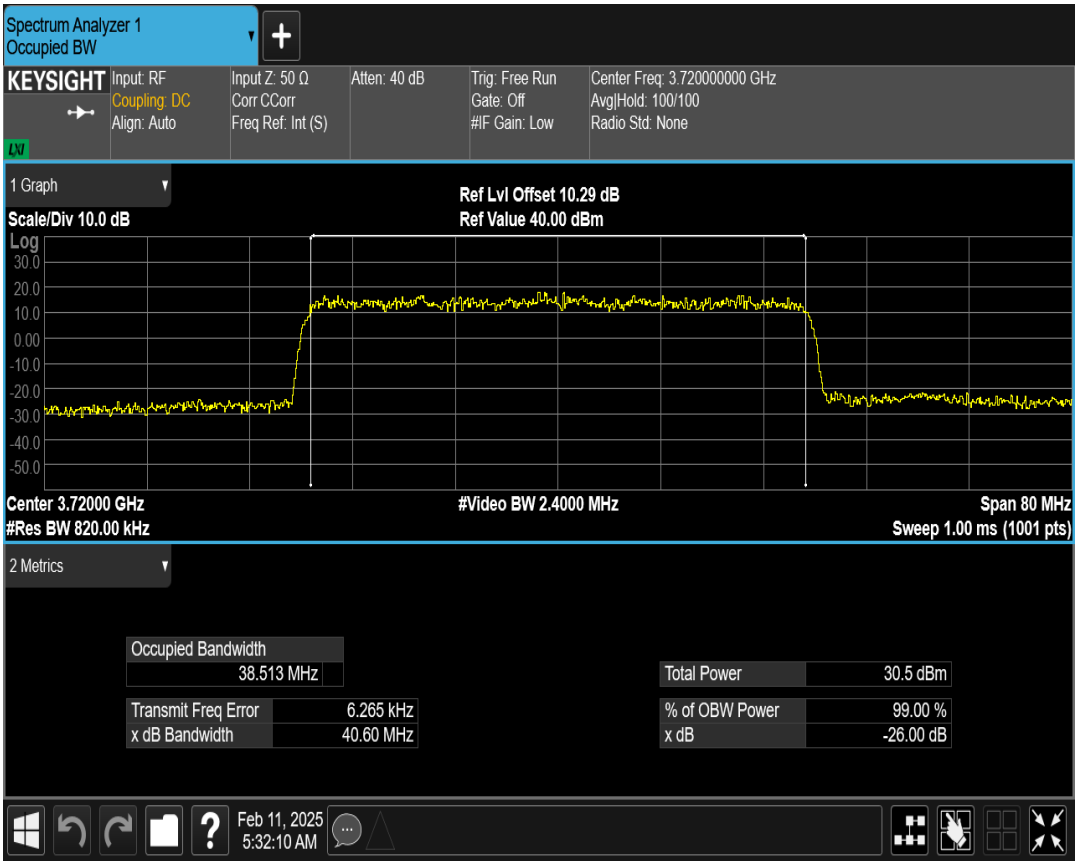
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=40MHz Channel=648000 RB=216@0



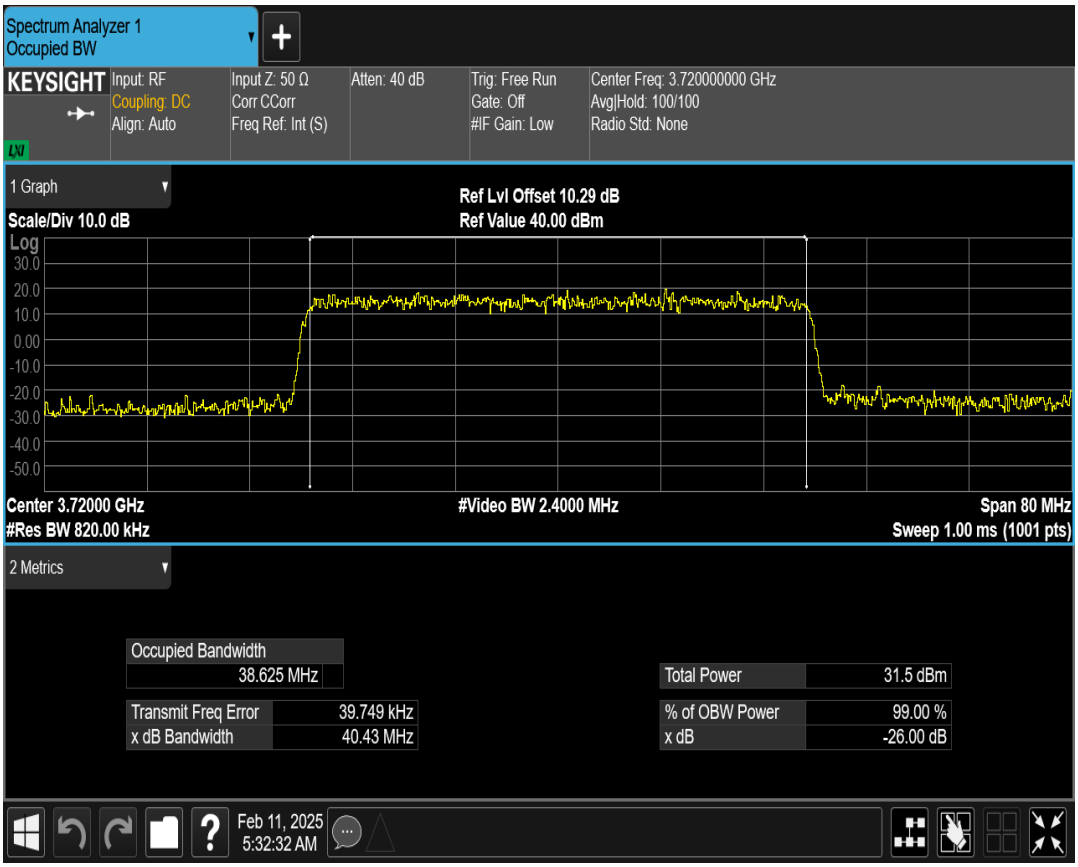
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=40MHz Channel=648000 RB=216@0



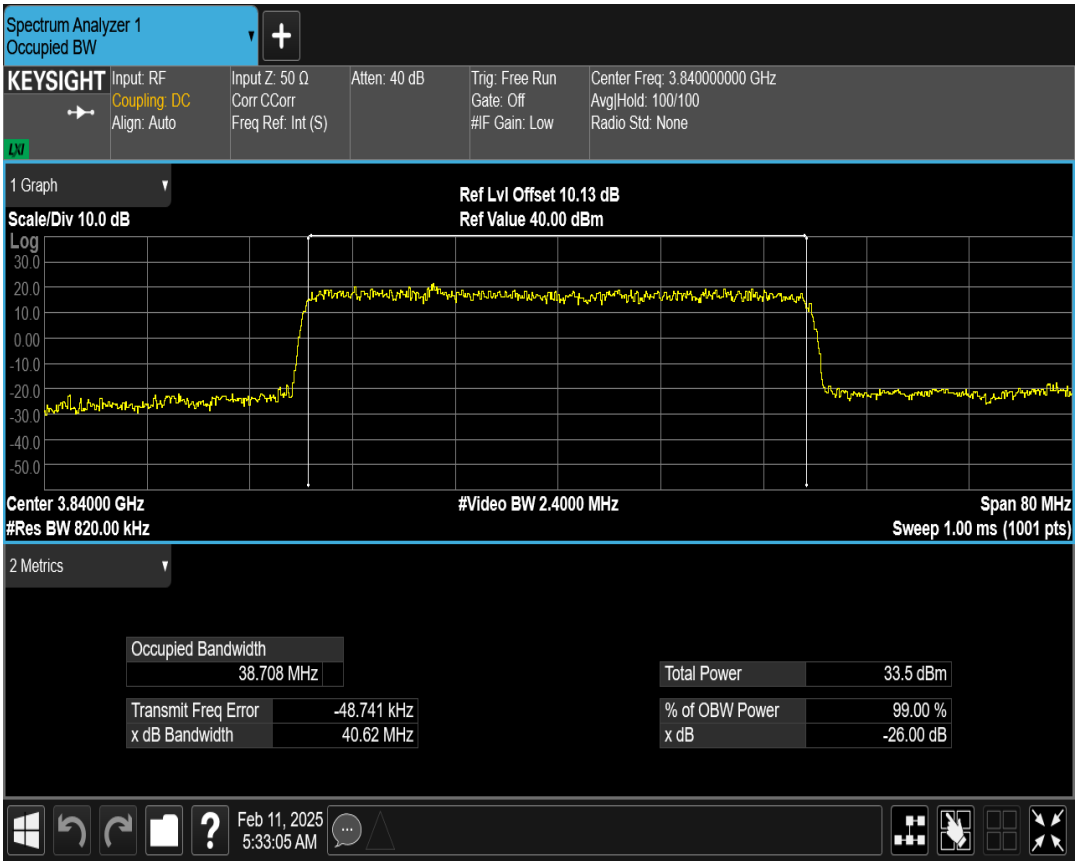
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=40MHz Channel=648000 RB=216@0



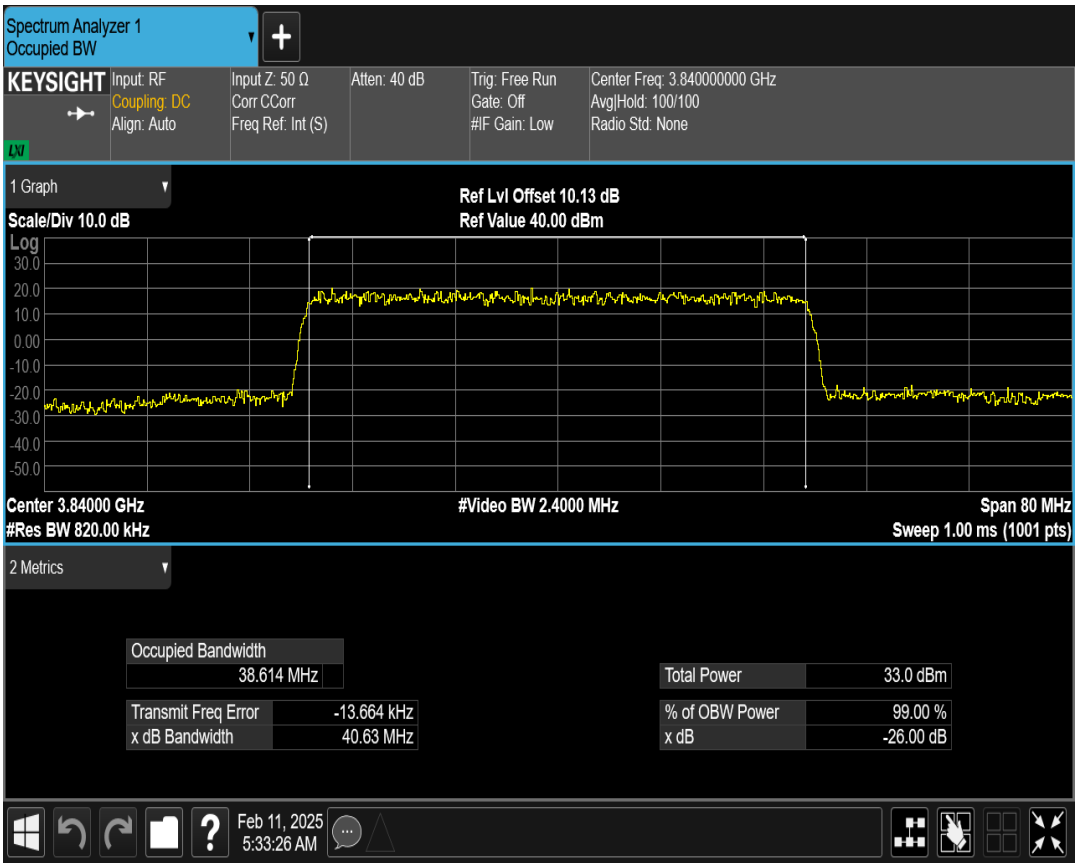
n77(3700-3980) SCS=15kHz CP_QPSK BW=40MHz Channel=648000 RB=216@0



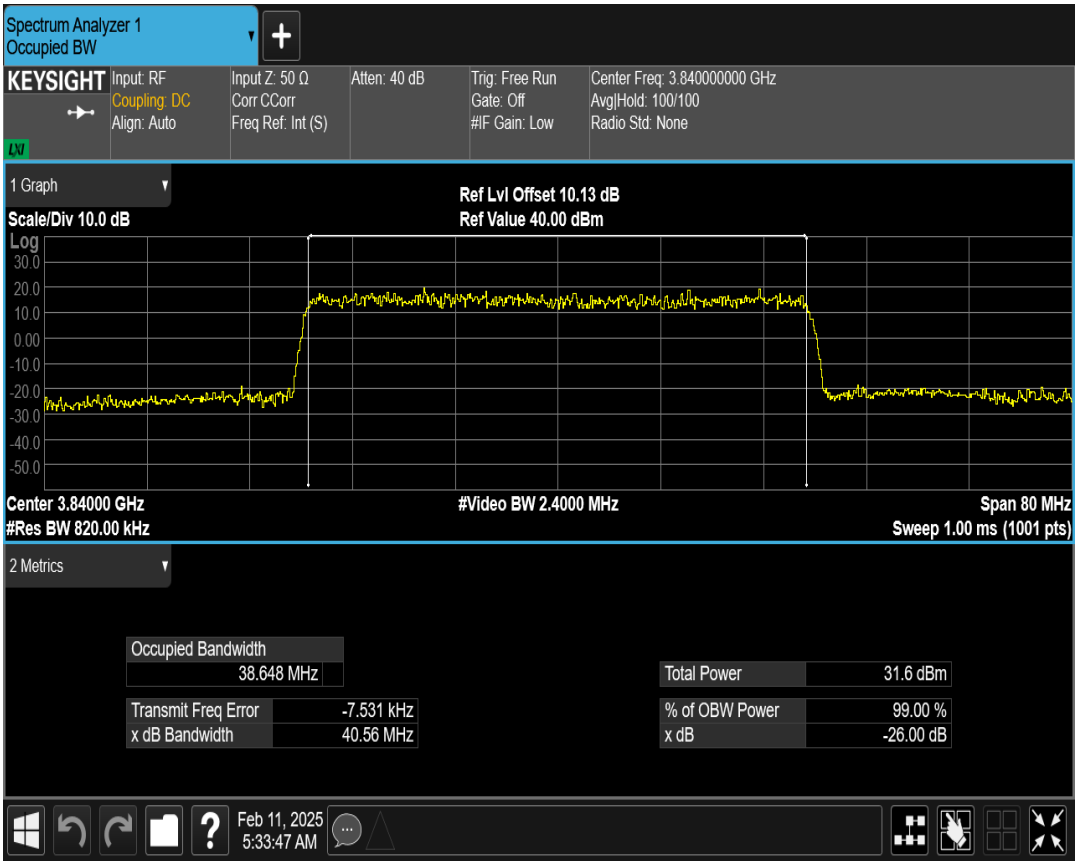
n77(3700-3980) SCS=15kHz DFT_BPSK BW=40MHz Channel=656000 RB=216@0



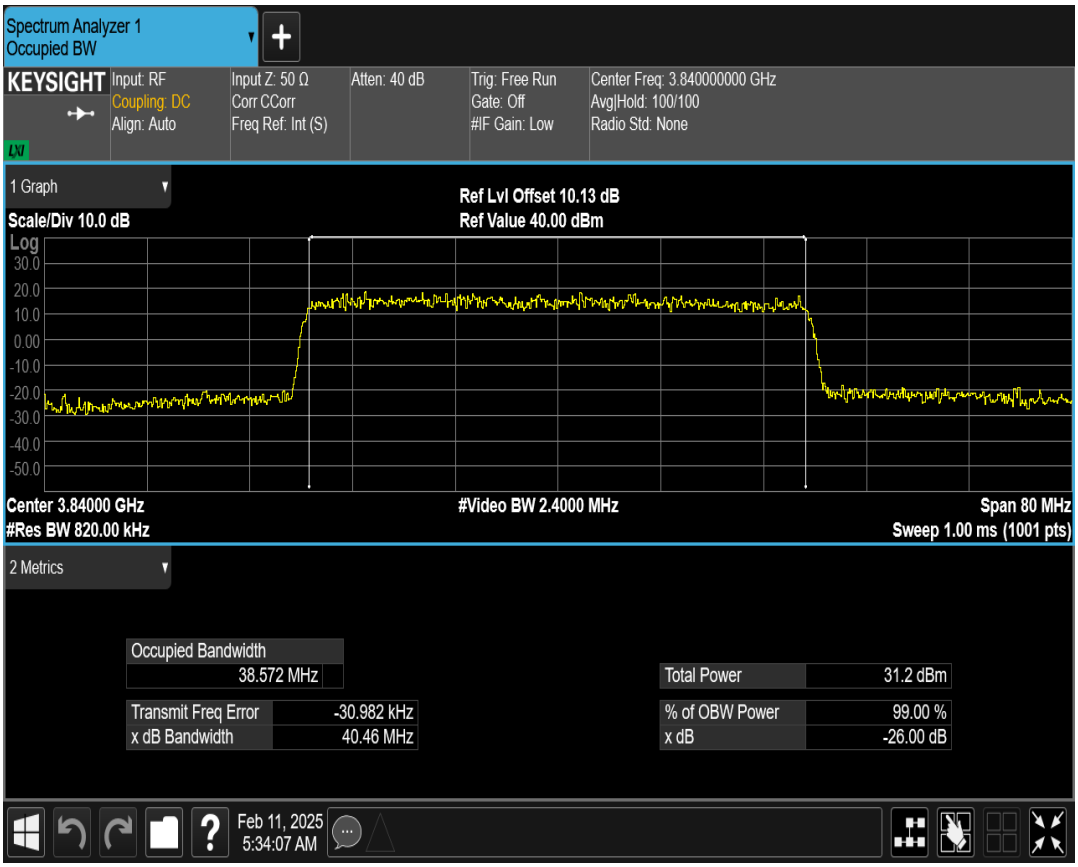
n77(3700-3980) SCS=15kHz DFT_QPSK BW=40MHz Channel=656000 RB=216@0



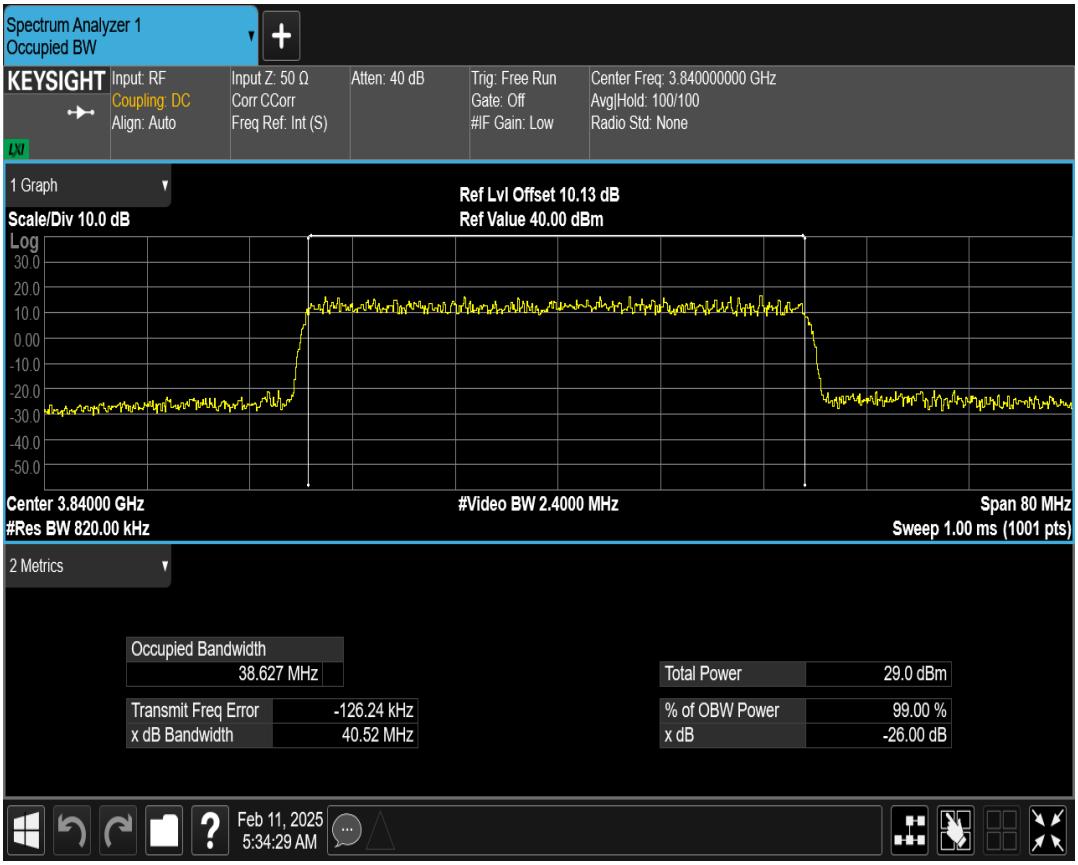
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=40MHz Channel=656000 RB=216@0



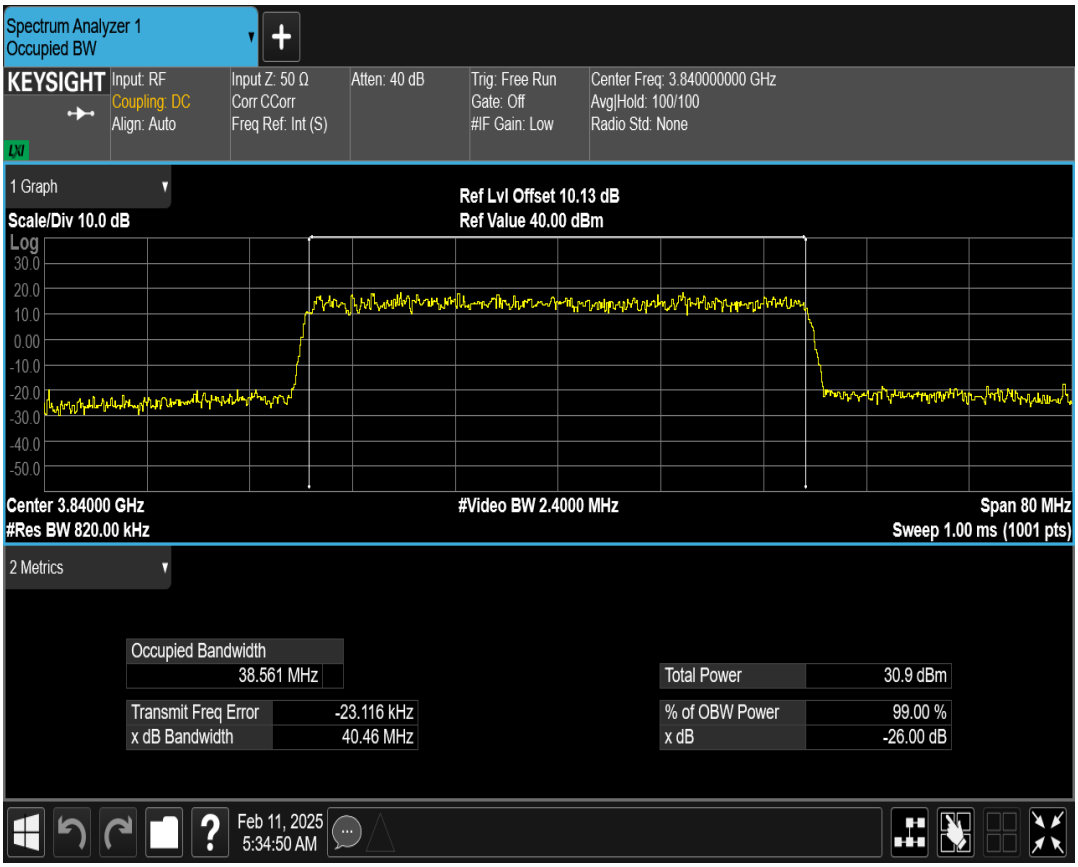
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=40MHz Channel=656000 RB=216@0



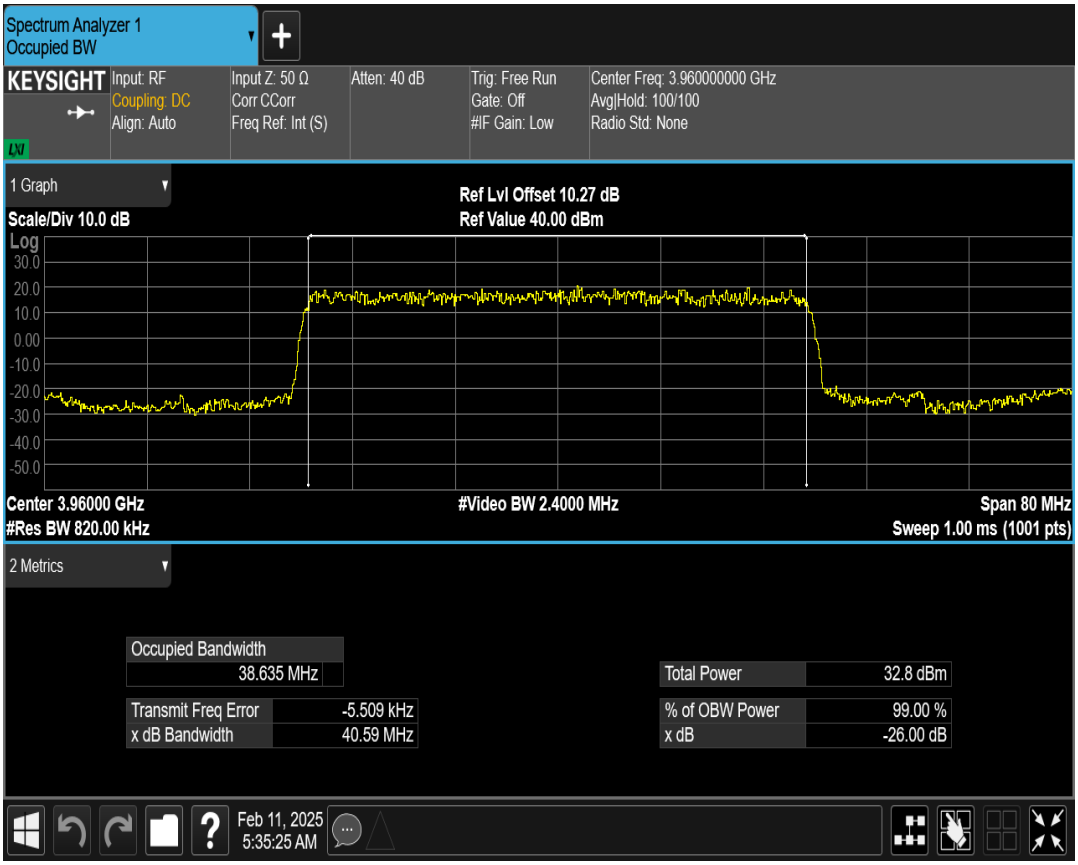
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=40MHz Channel=656000 RB=216@0



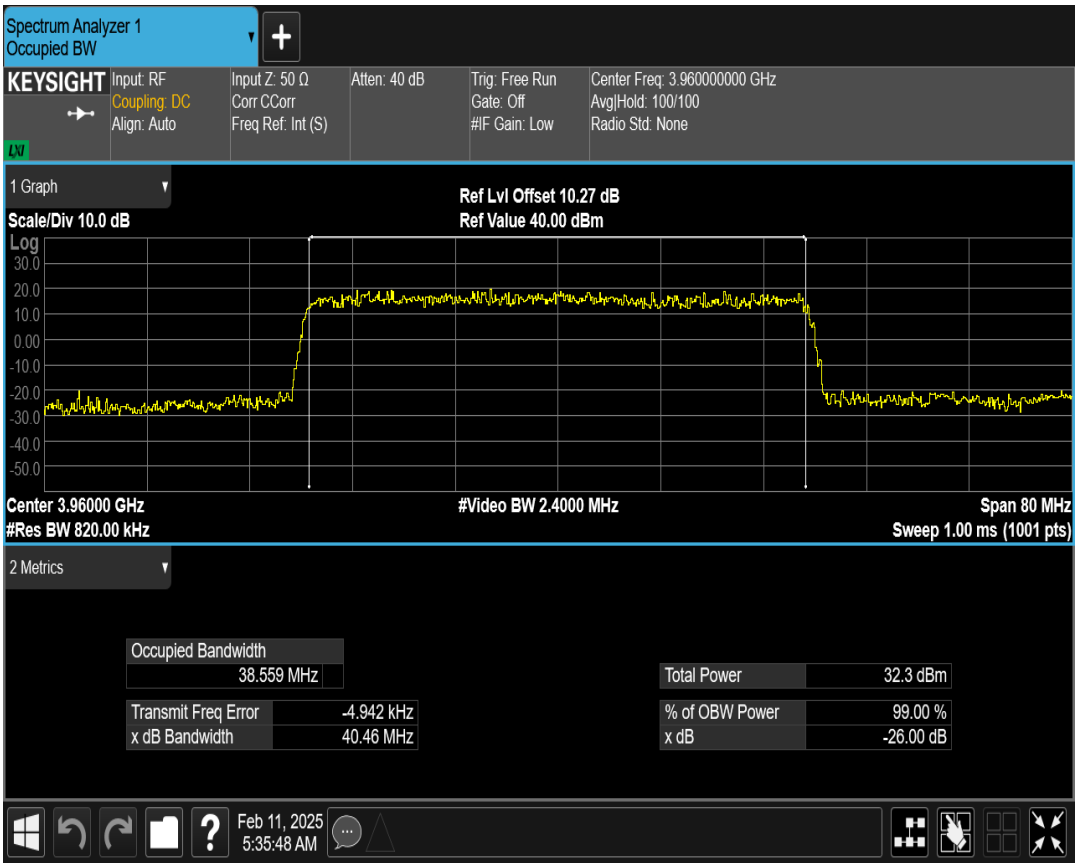
n77(3700-3980) SCS=15kHz CP_QPSK BW=40MHz Channel=656000 RB=216@0



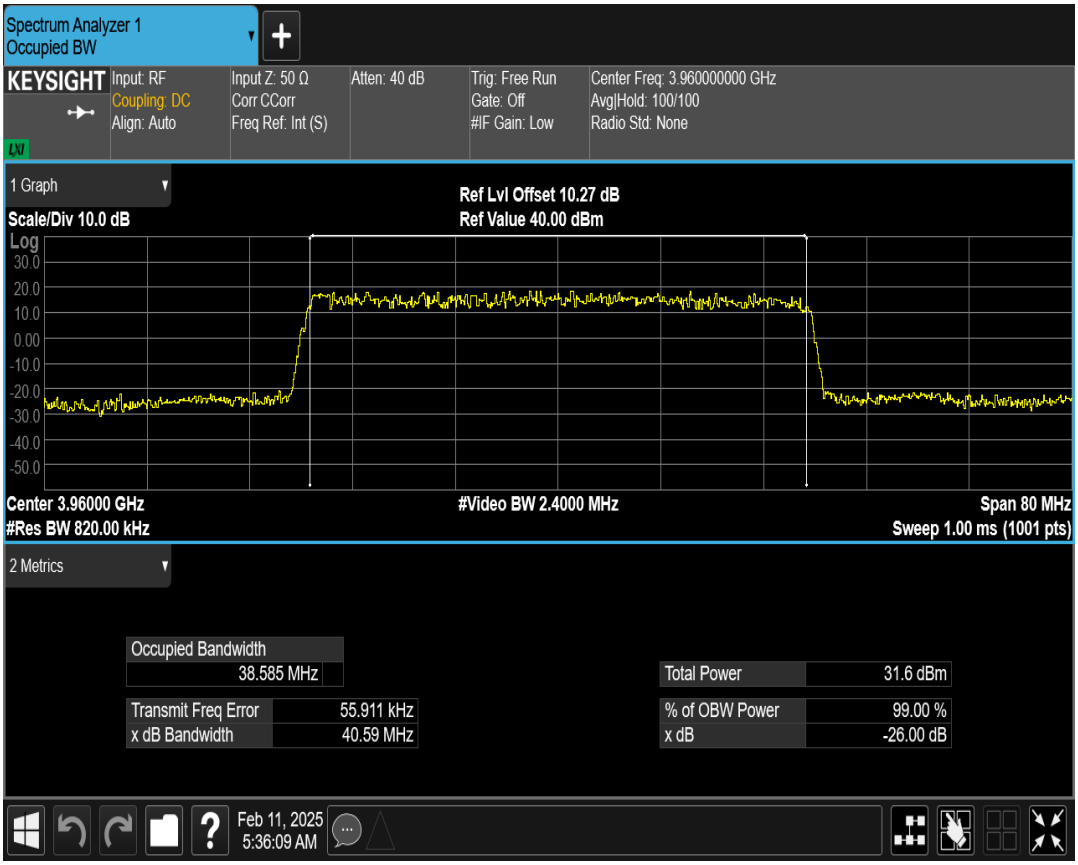
n77(3700-3980) SCS=15kHz DFT_BPSK BW=40MHz Channel=664000 RB=216@0



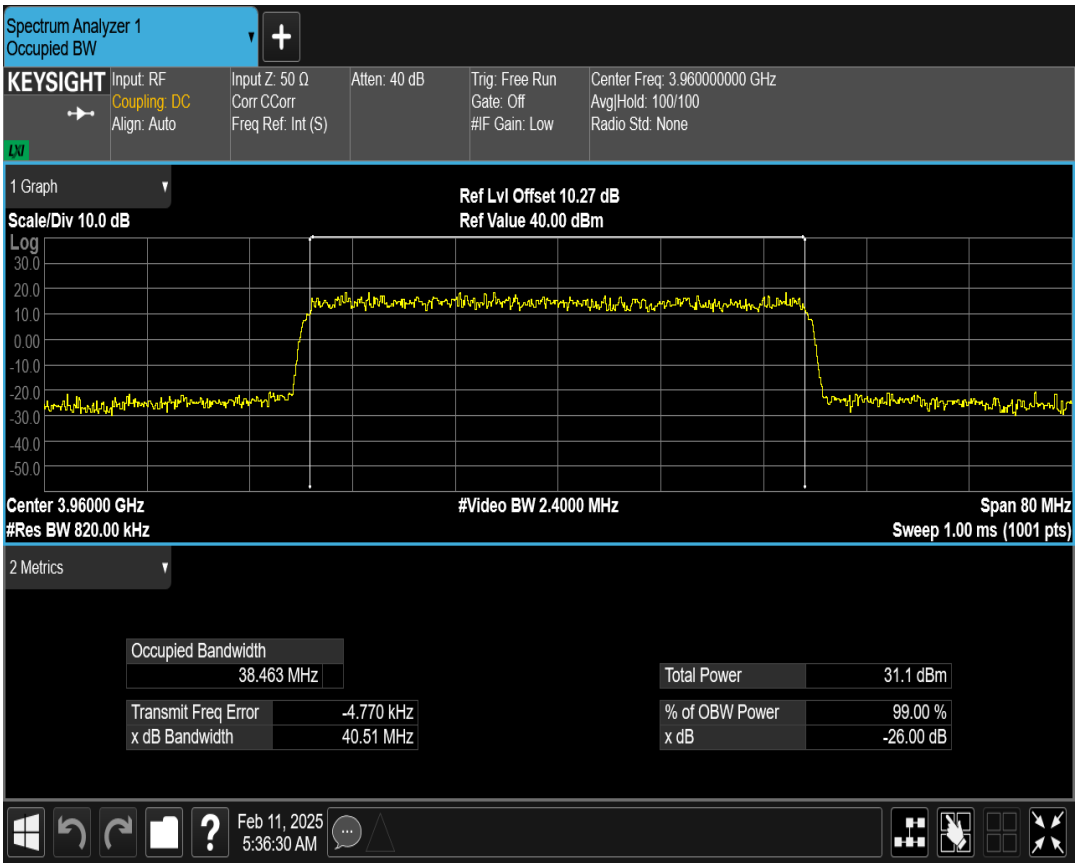
n77(3700-3980) SCS=15kHz DFT_QPSK BW=40MHz Channel=664000 RB=216@0



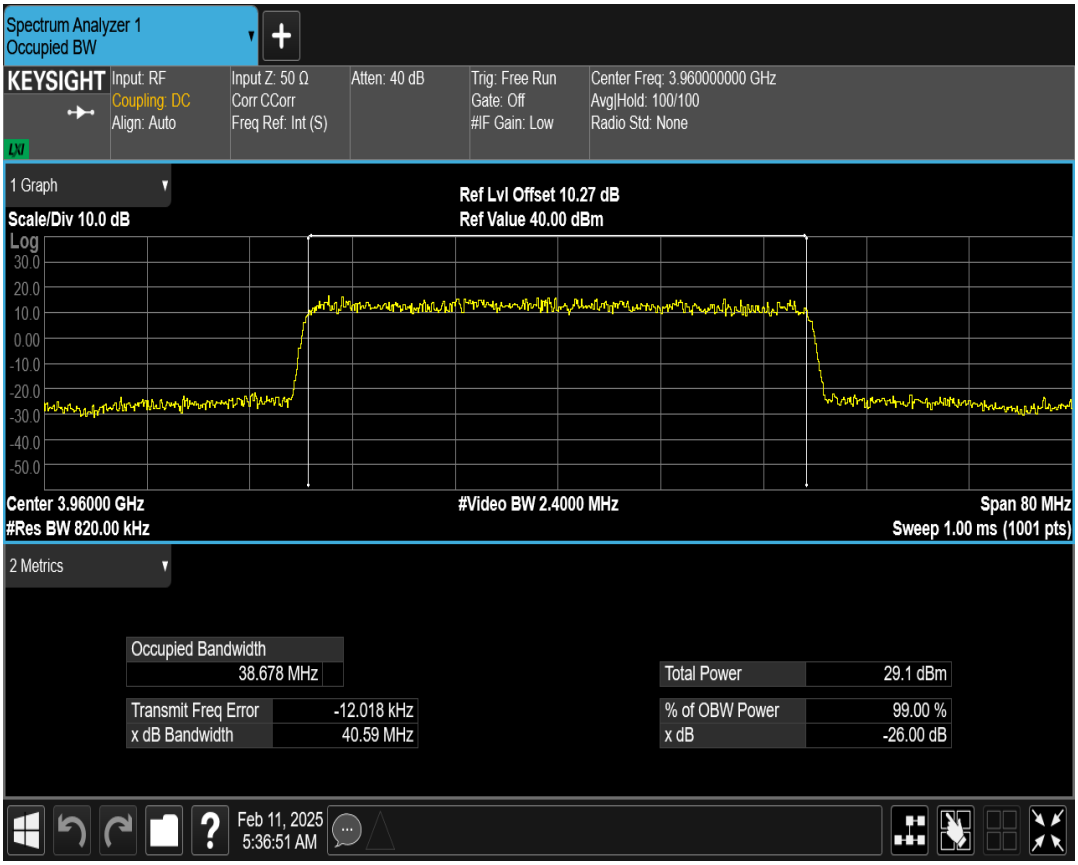
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=40MHz Channel=664000 RB=216@0



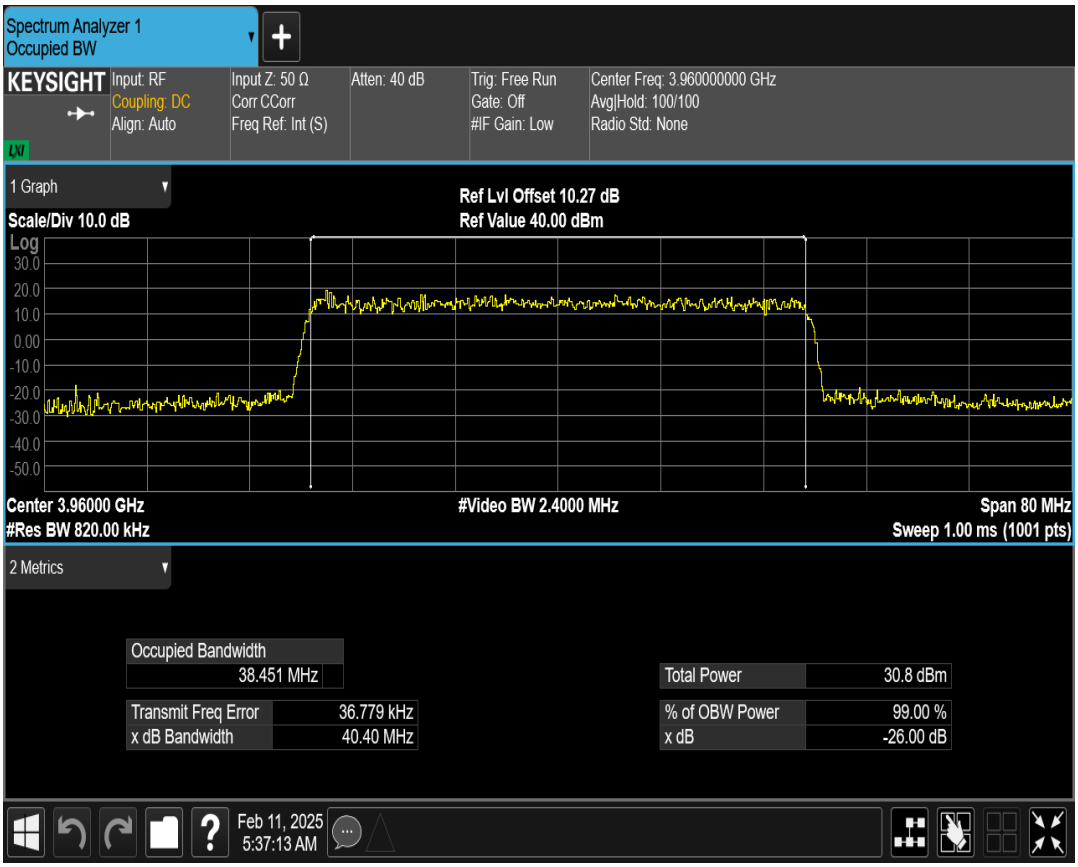
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=40MHz Channel=664000 RB=216@0



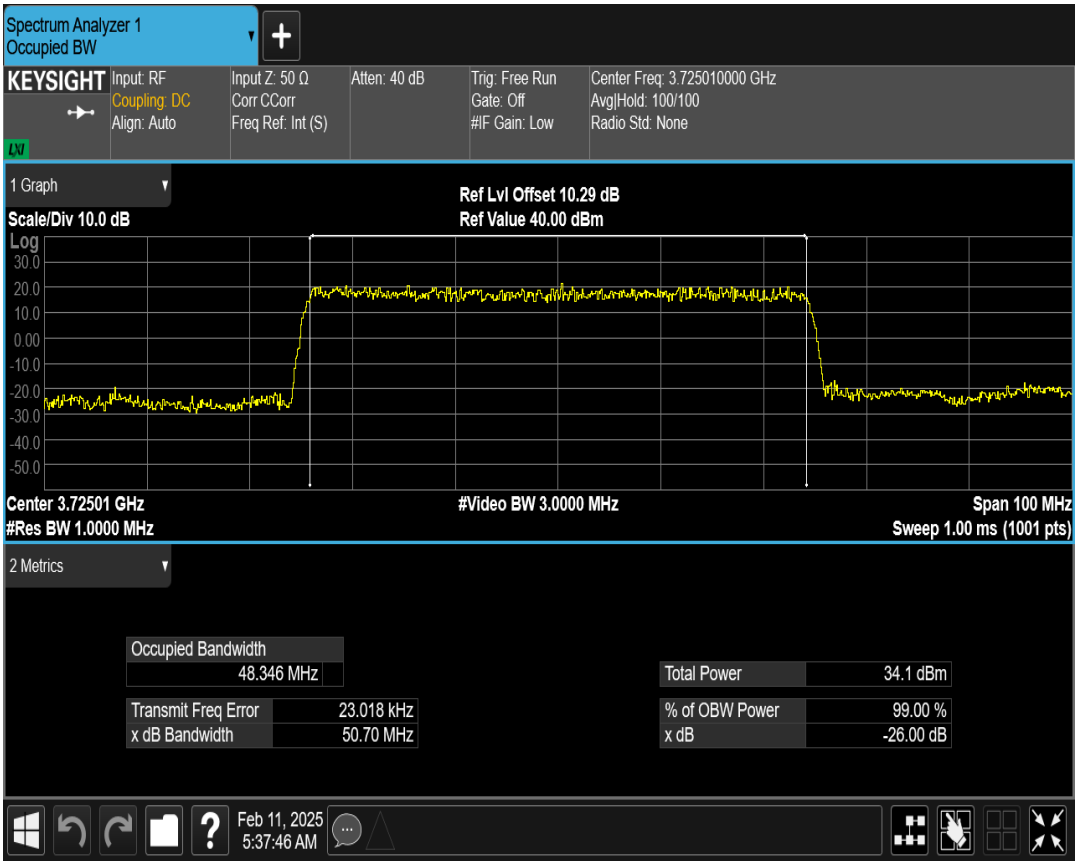
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=40MHz Channel=664000 RB=216@0



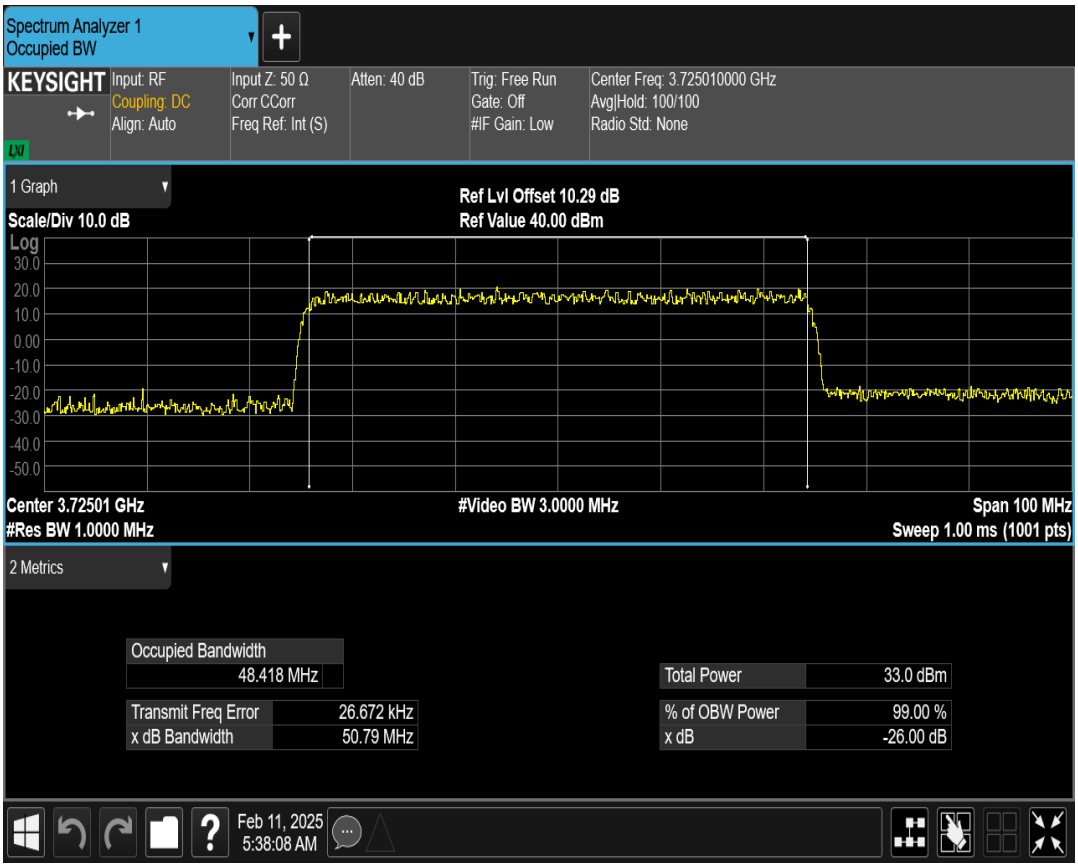
n77(3700-3980) SCS=15kHz CP_QPSK BW=40MHz Channel=664000 RB=216@0



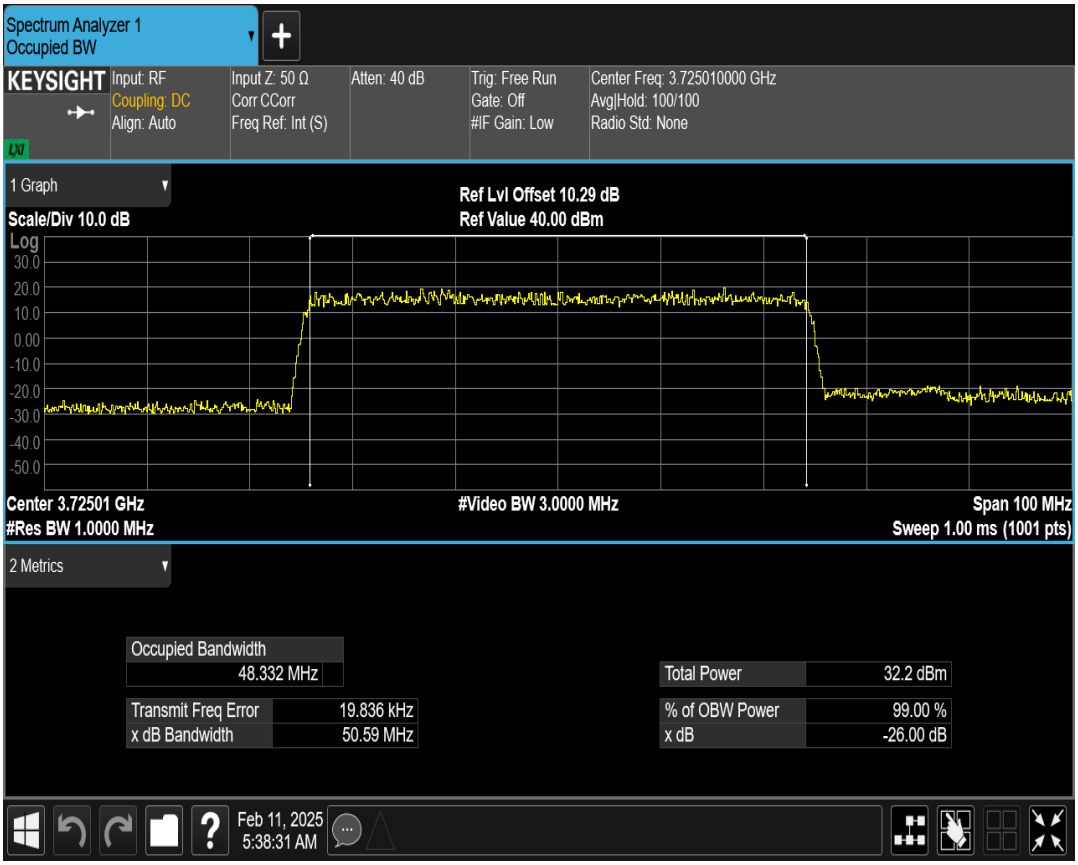
n77(3700-3980) SCS=15kHz DFT_BPSK BW=50MHz Channel=648334 RB=270@0



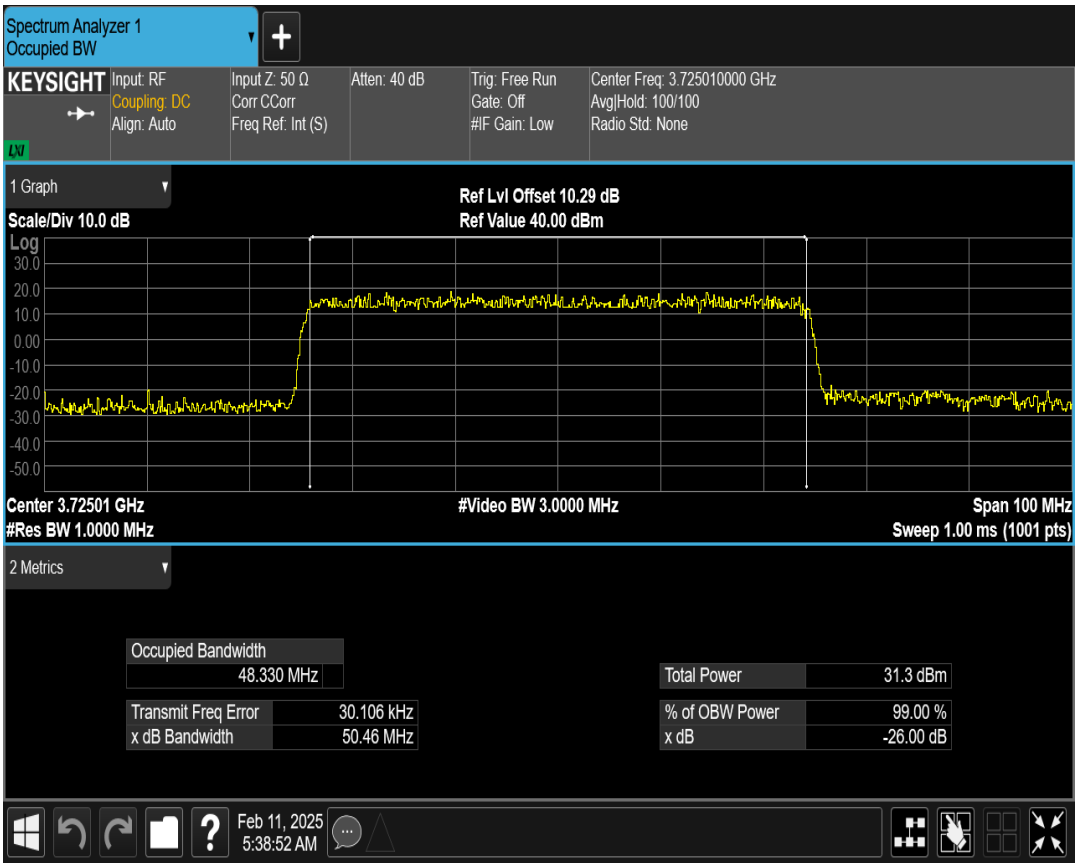
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=270@0



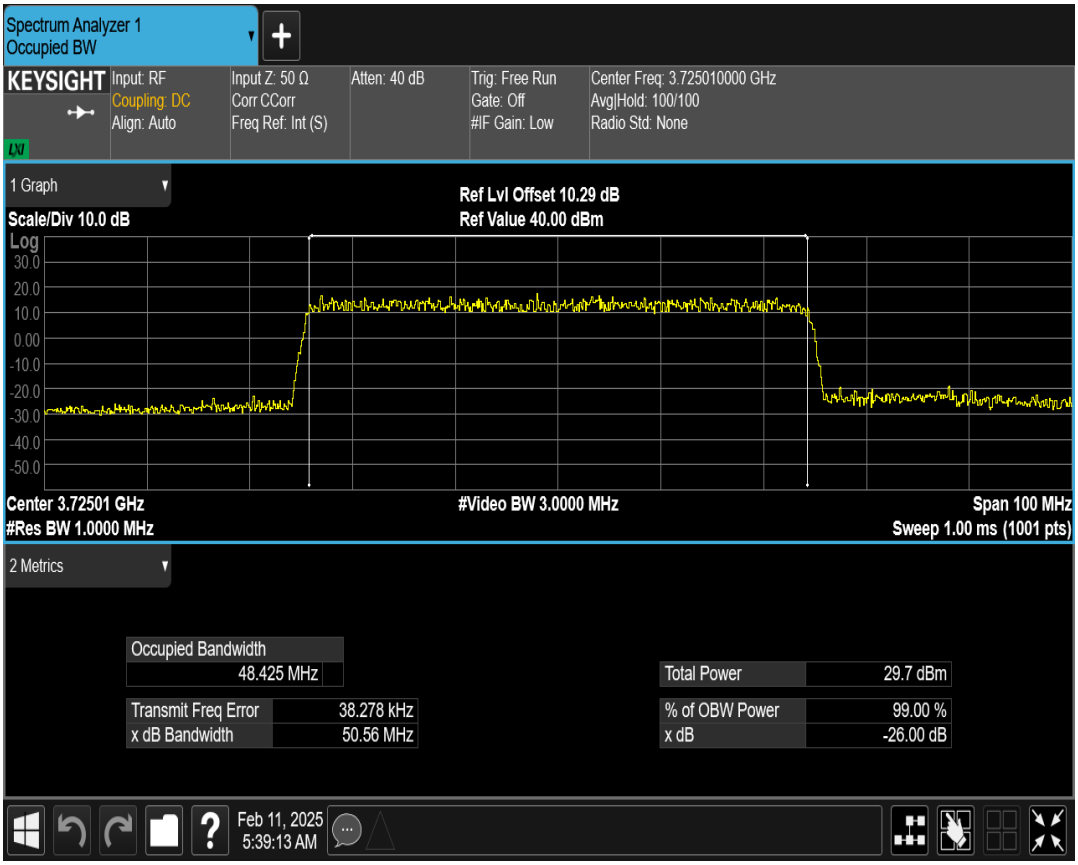
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=50MHz Channel=648334 RB=270@0



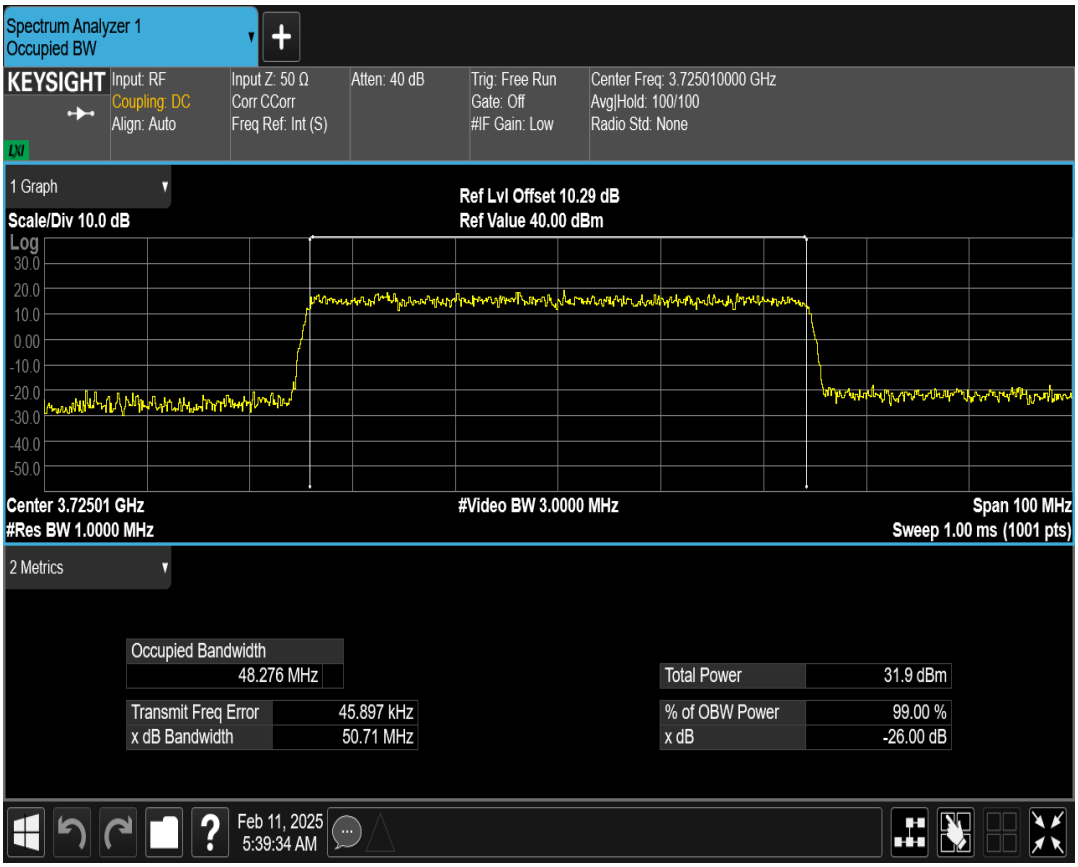
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=50MHz Channel=648334 RB=270@0



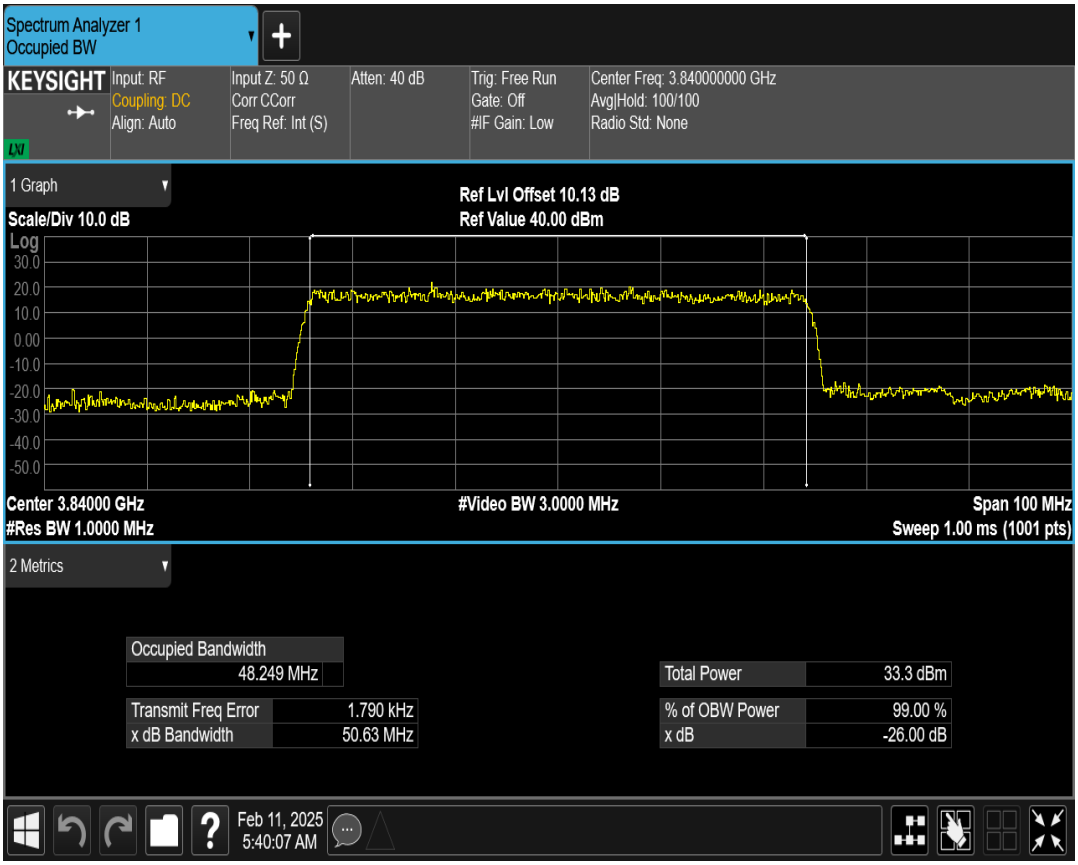
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=50MHz Channel=648334 RB=270@0



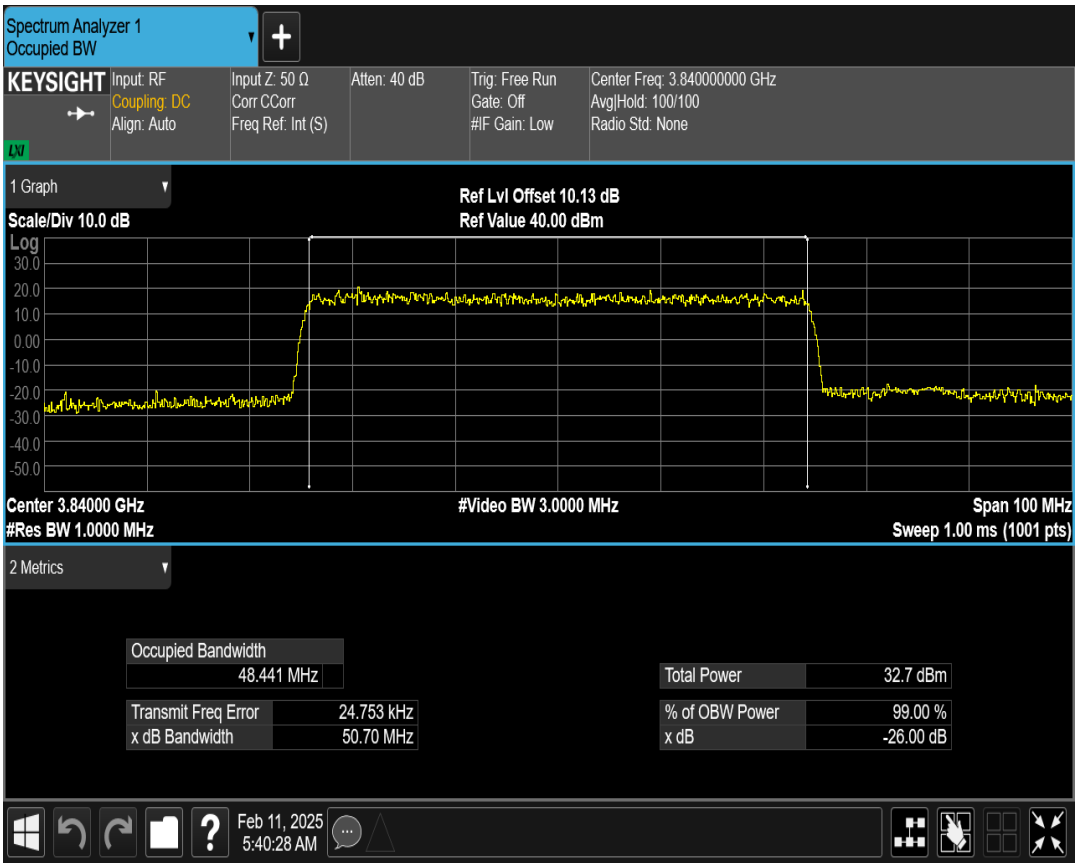
n77(3700-3980) SCS=15kHz CP_QPSK BW=50MHz Channel=648334 RB=270@0



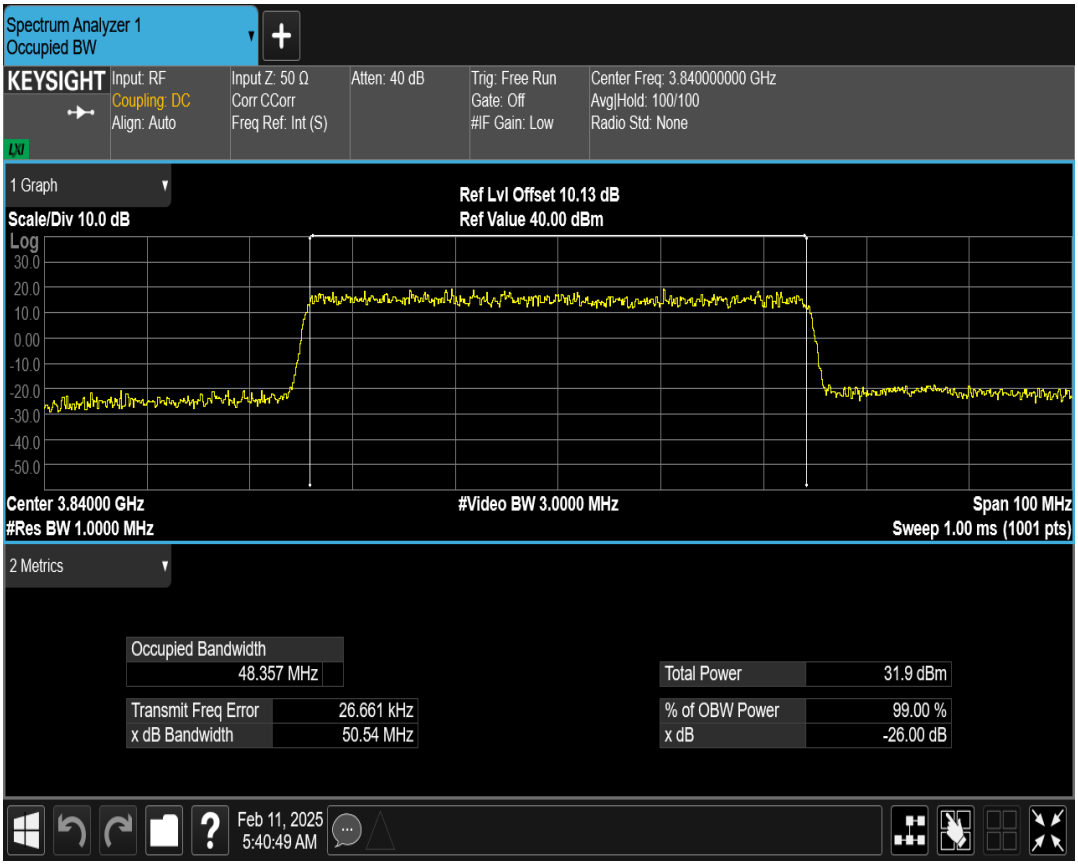
n77(3700-3980) SCS=15kHz DFT_BPSK BW=50MHz Channel=656000 RB=270@0



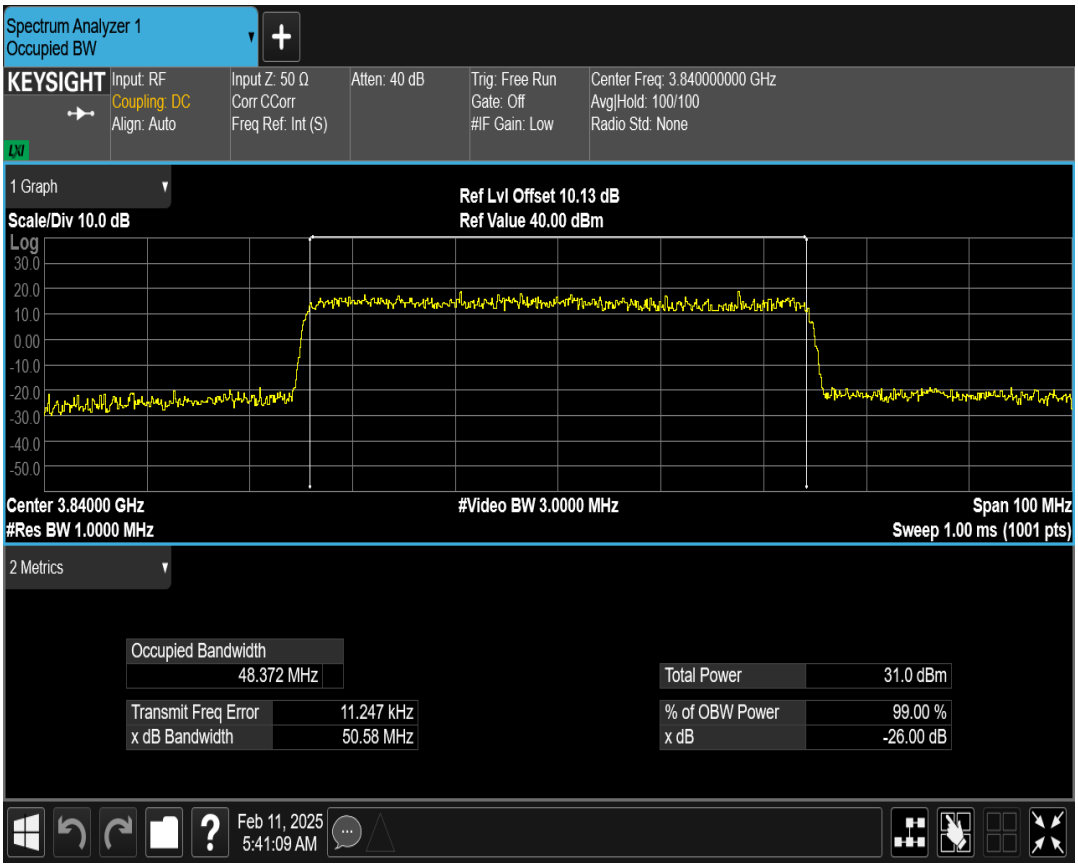
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=656000 RB=270@0



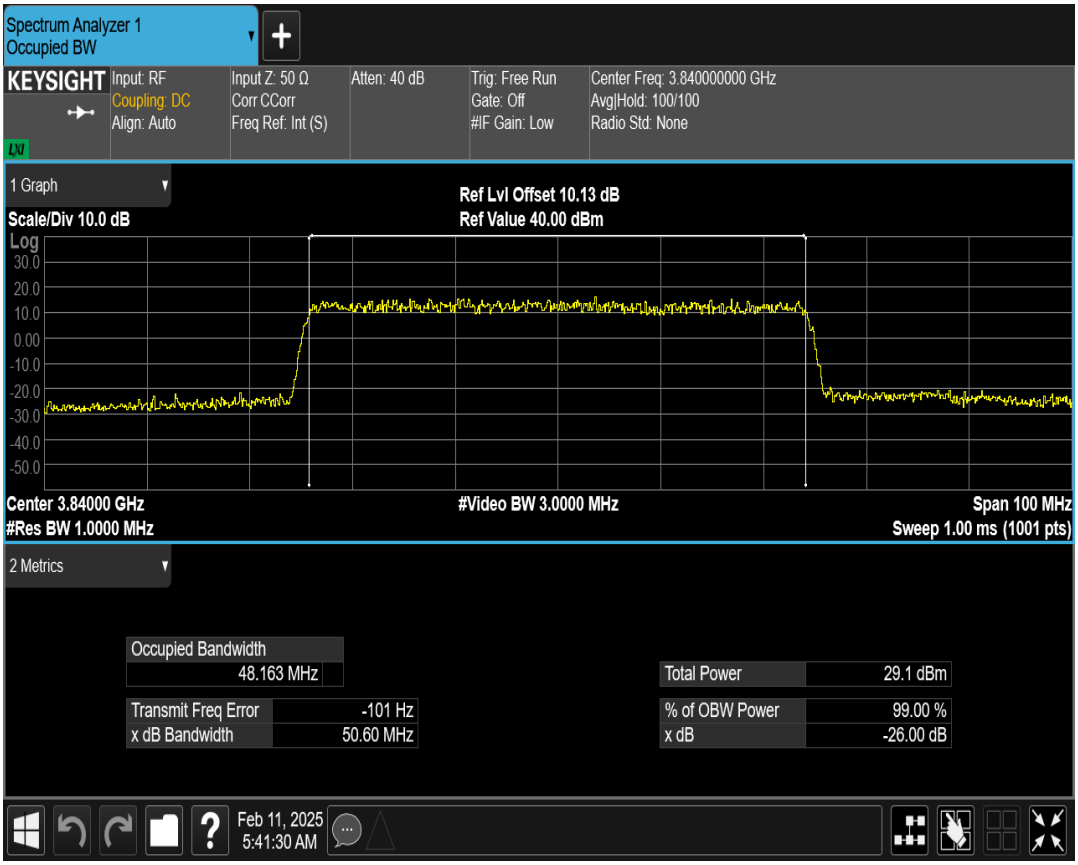
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=50MHz Channel=656000 RB=270@0



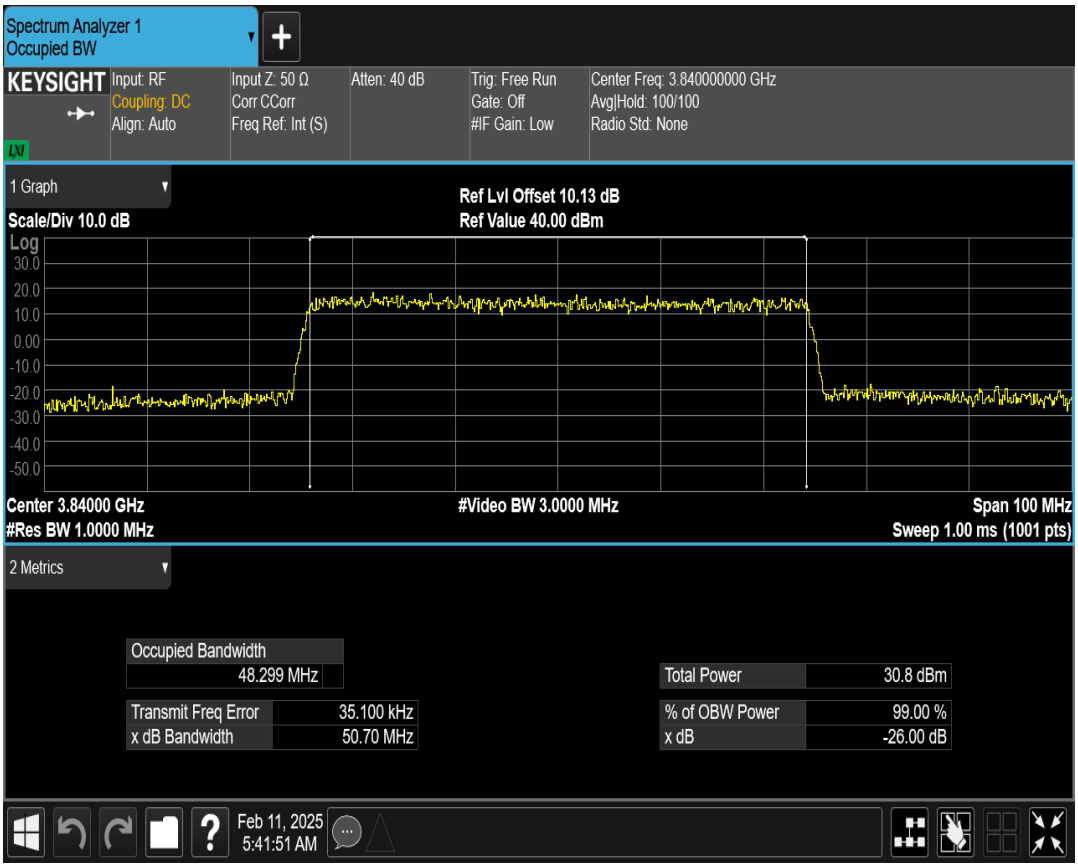
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=50MHz Channel=656000 RB=270@0



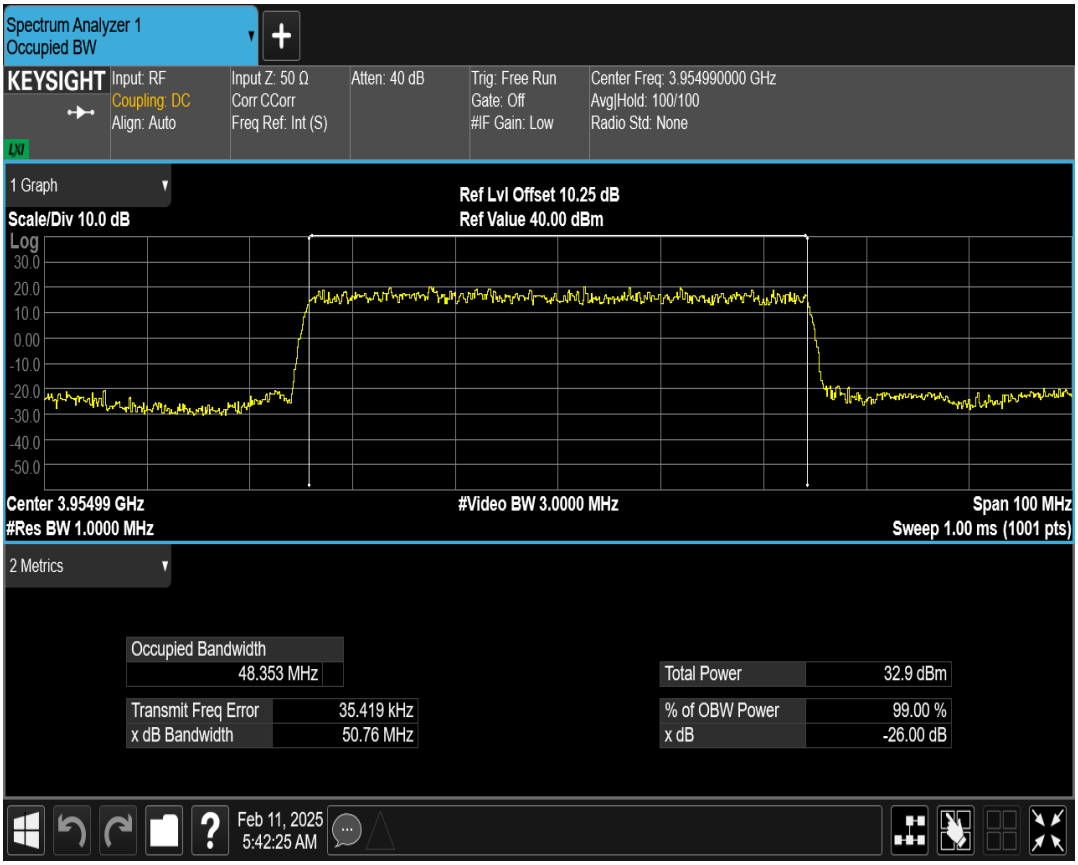
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=50MHz Channel=656000 RB=270@0



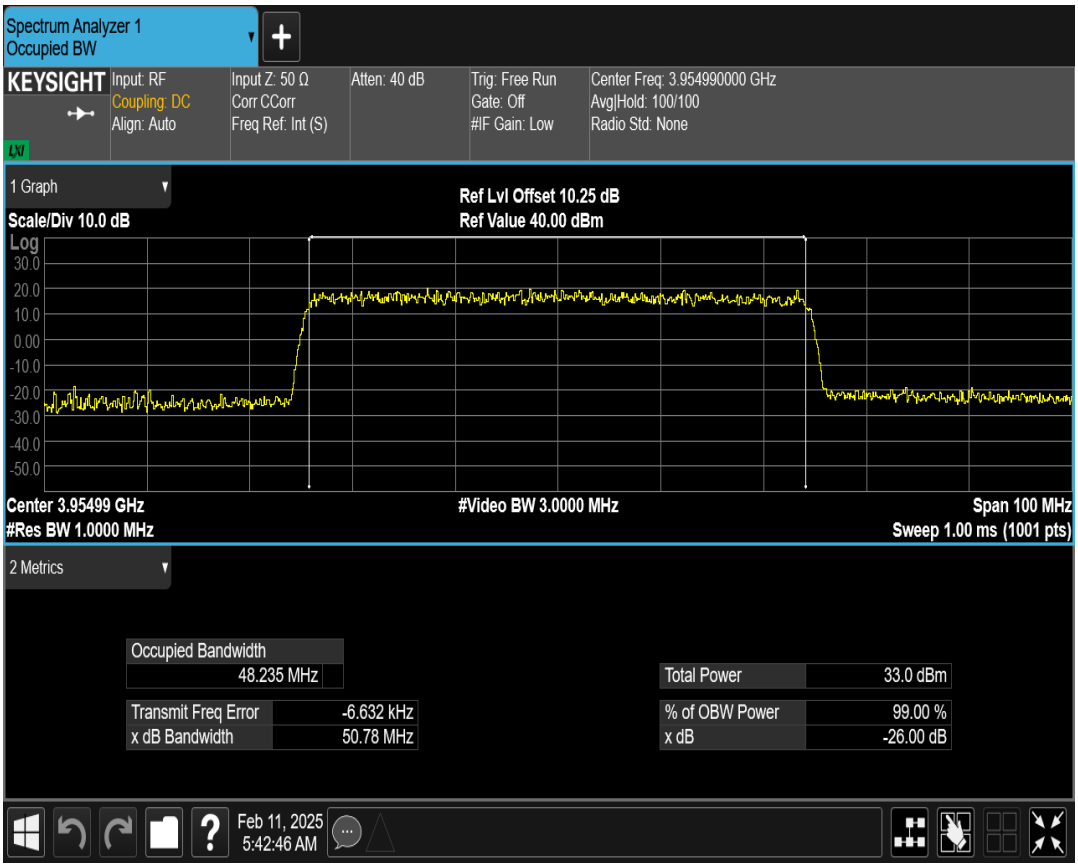
n77(3700-3980) SCS=15kHz CP_QPSK BW=50MHz Channel=656000 RB=270@0



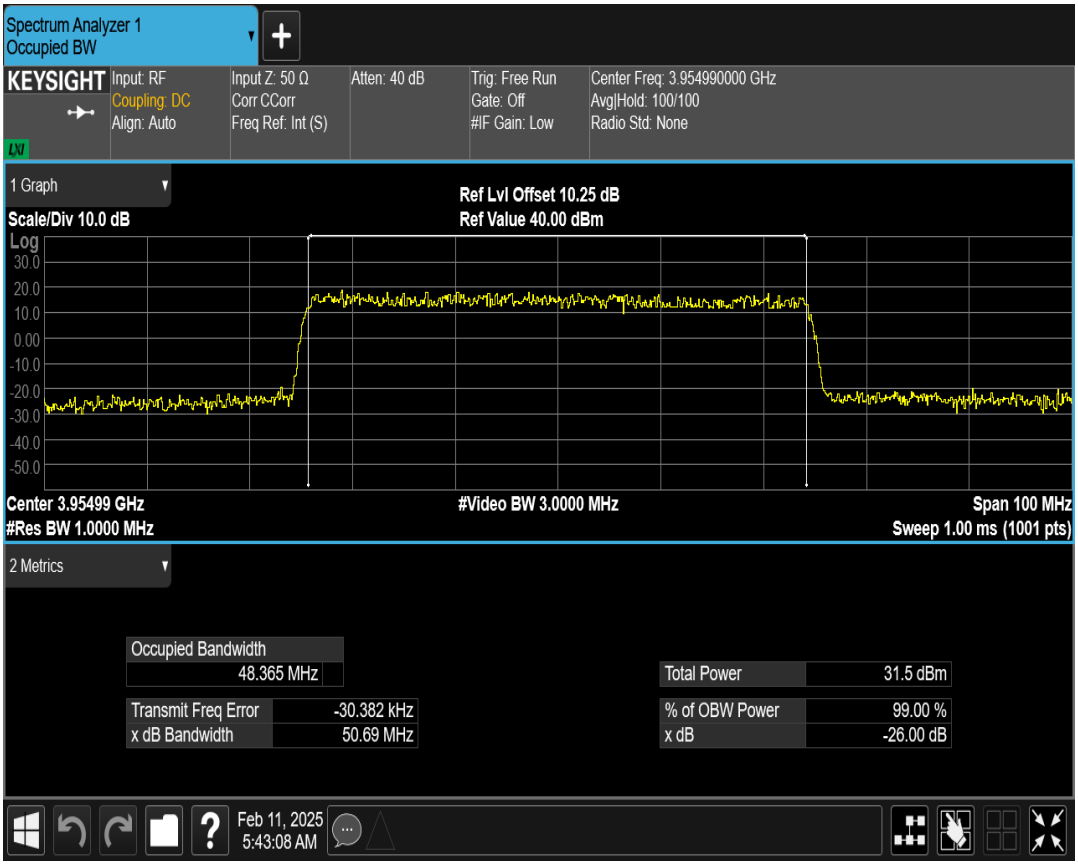
n77(3700-3980) SCS=15kHz DFT_BPSK BW=50MHz Channel=663666 RB=270@0



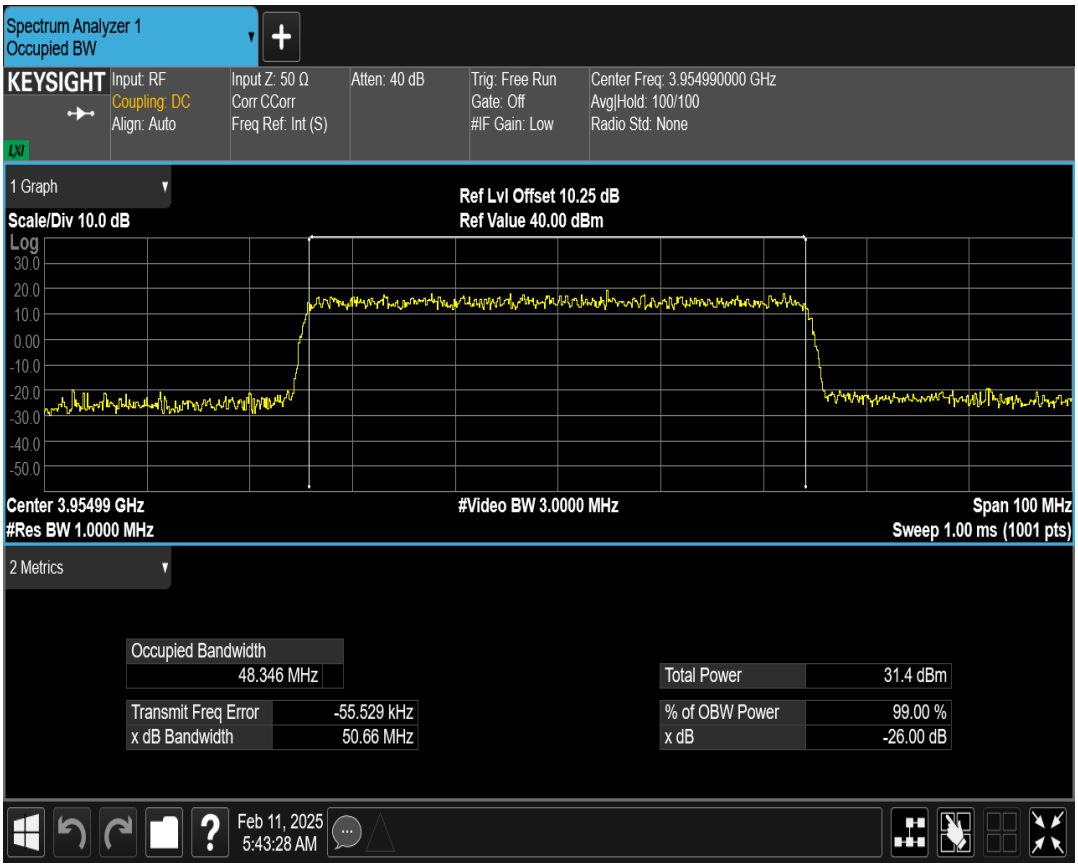
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=270@0



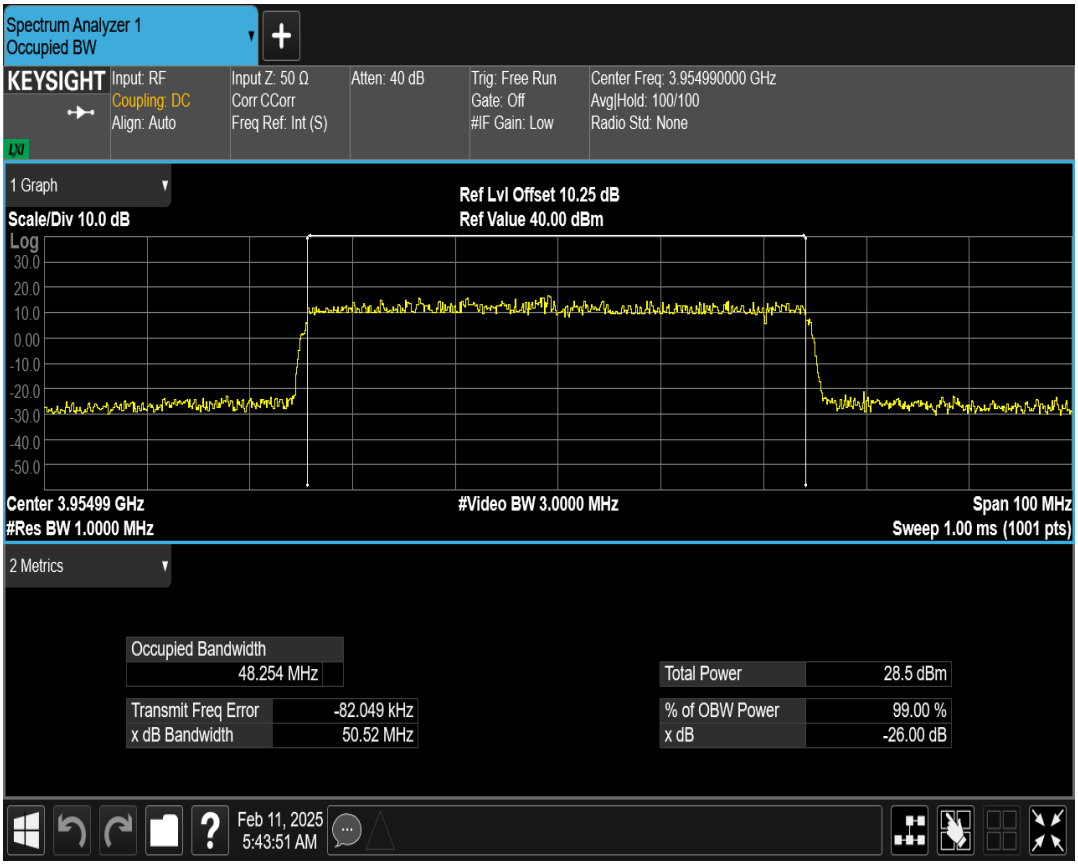
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=50MHz Channel=663666 RB=270@0



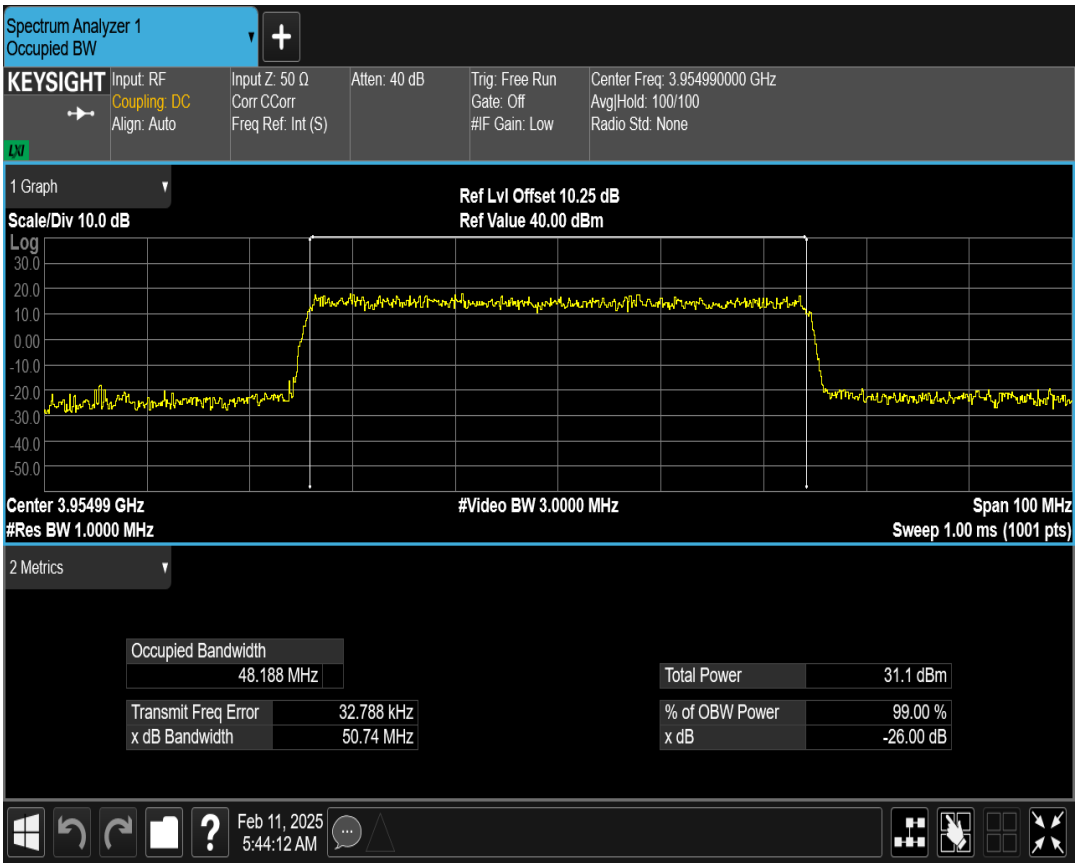
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=50MHz Channel=663666 RB=270@0



n77(3700-3980) SCS=15kHz DFT_QAM256 BW=50MHz Channel=663666 RB=270@0



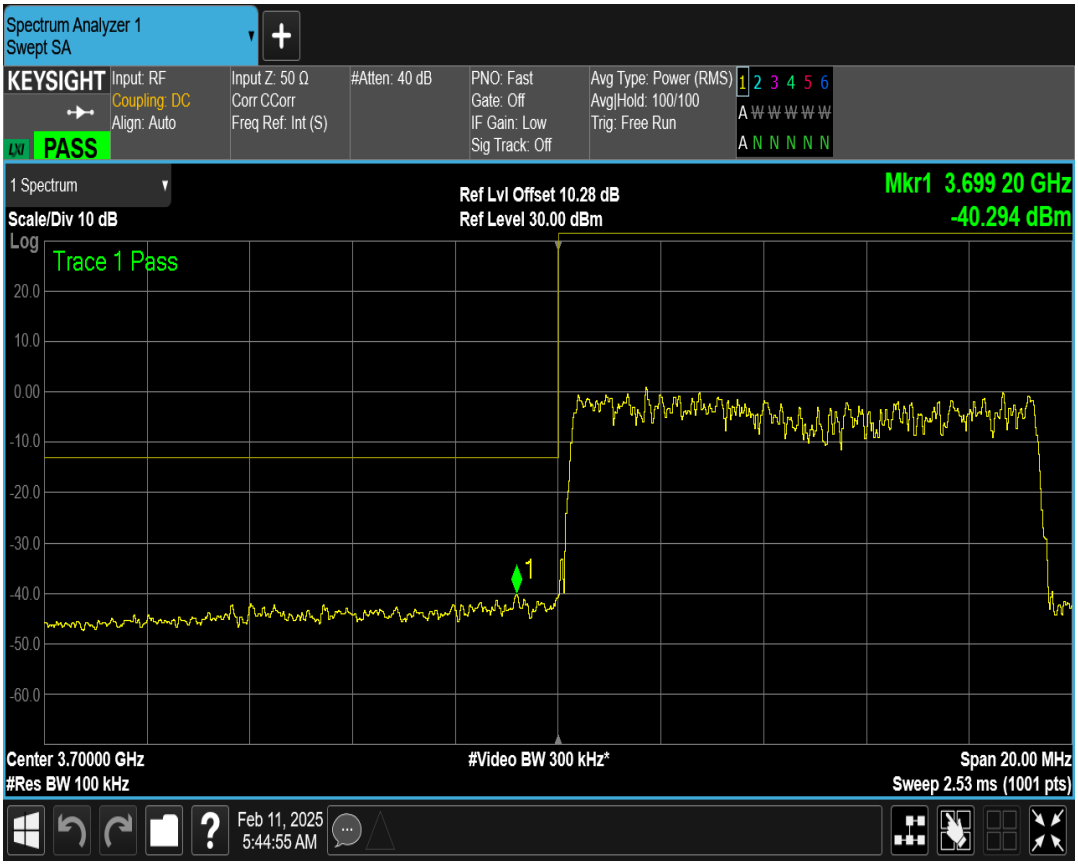
n77(3700-3980) SCS=15kHz CP_QPSK BW=50MHz Channel=663666 RB=270@0



5 Band edge for NR FR1

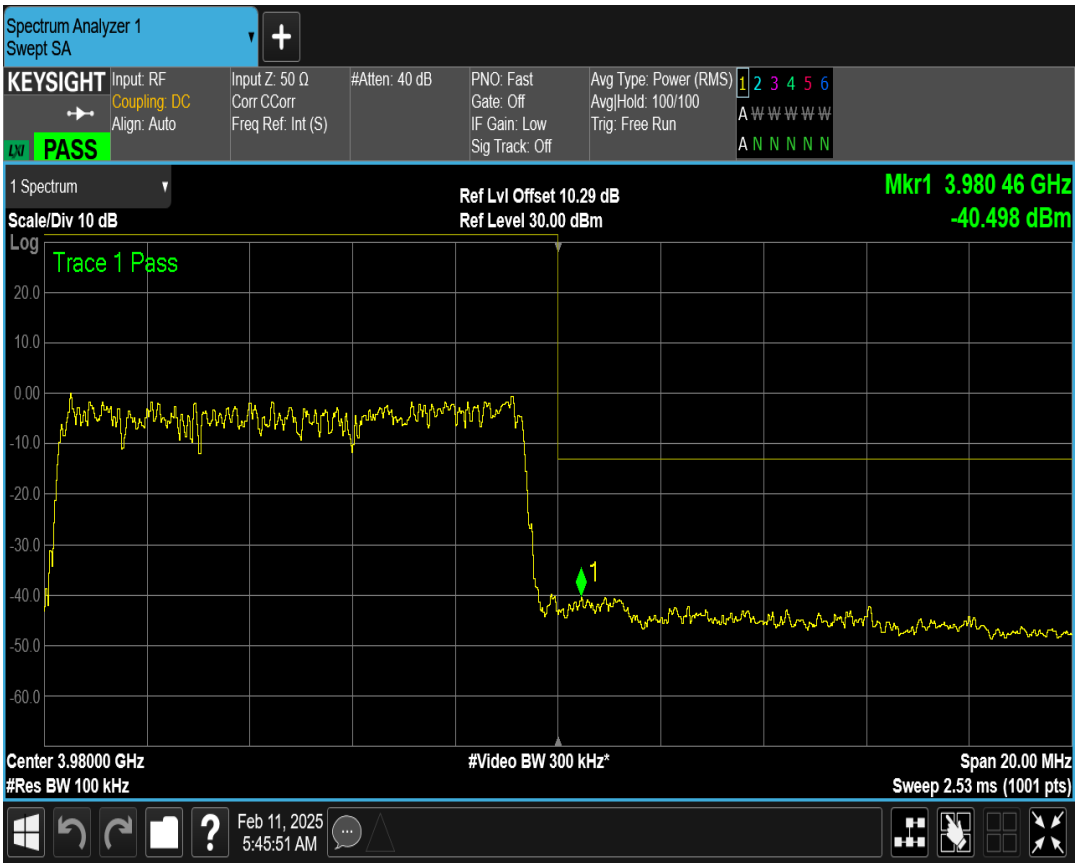
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	15	10	647000	50@0	DFT_QPSK	3699.20	-40.29	-13	PASS
n77(3700-3980)	15	10	647000	1@0	DFT_QPSK	3699.94	-22.49	-13	PASS
n77(3700-3980)	15	10	665000	50@0	DFT_QPSK	3980.46	-40.50	-13	PASS
n77(3700-3980)	15	10	665000	1@51	DFT_QPSK	3980.02	-25.51	-13	PASS
n77(3700-3980)	15	50	648334	270@0	DFT_QPSK	3700.00	-30.61	-13	PASS
n77(3700-3980)	15	50	648334	1@0	DFT_QPSK	3700.00	-29.83	-13	PASS
n77(3700-3980)	15	50	663666	270@0	DFT_QPSK	3980.00	-33.70	-13	PASS
n77(3700-3980)	15	50	663666	1@269	DFT_QPSK	3980.00	-37.14	-13	PASS

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=50@0



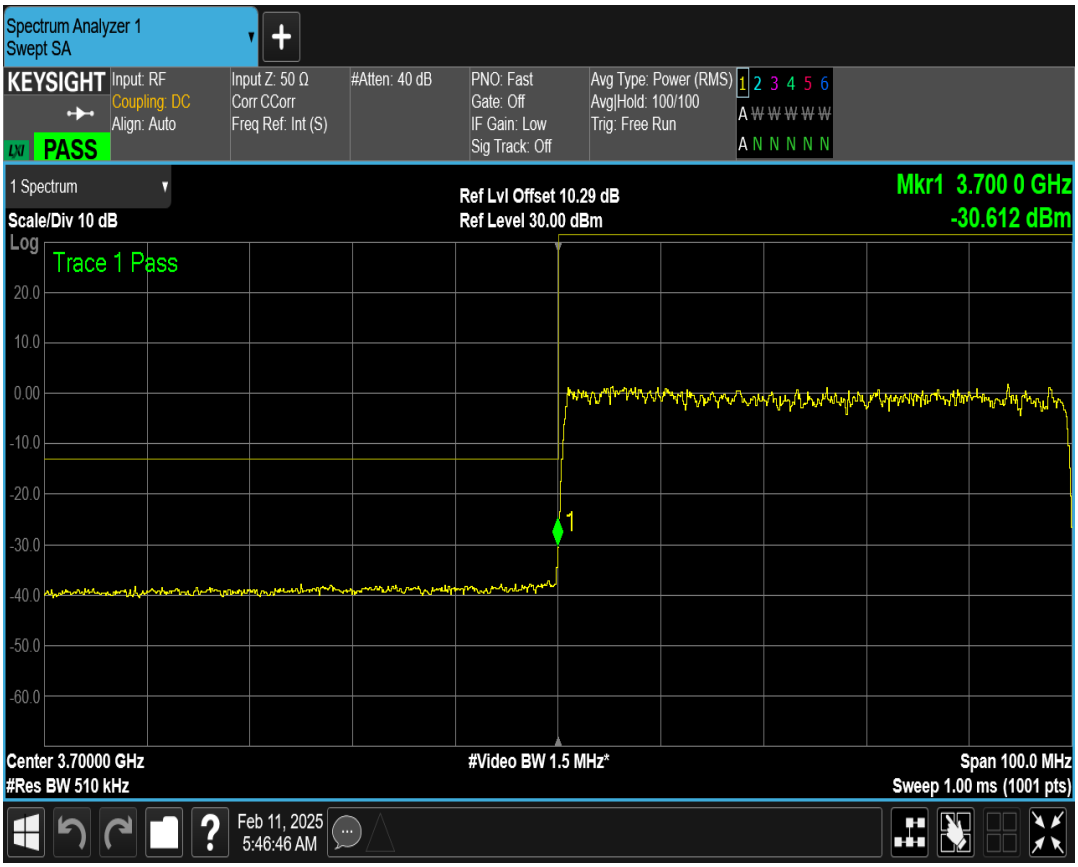
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=1@0

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=50@0



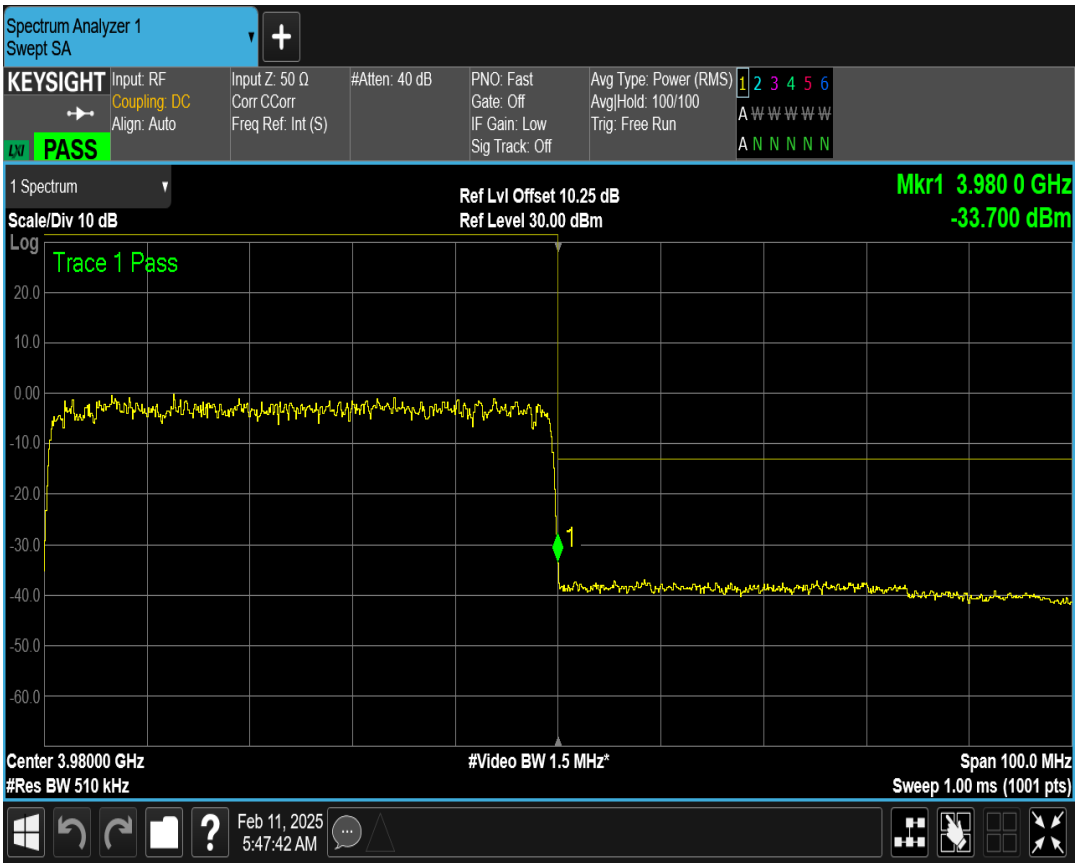
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=1@51

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=270@0

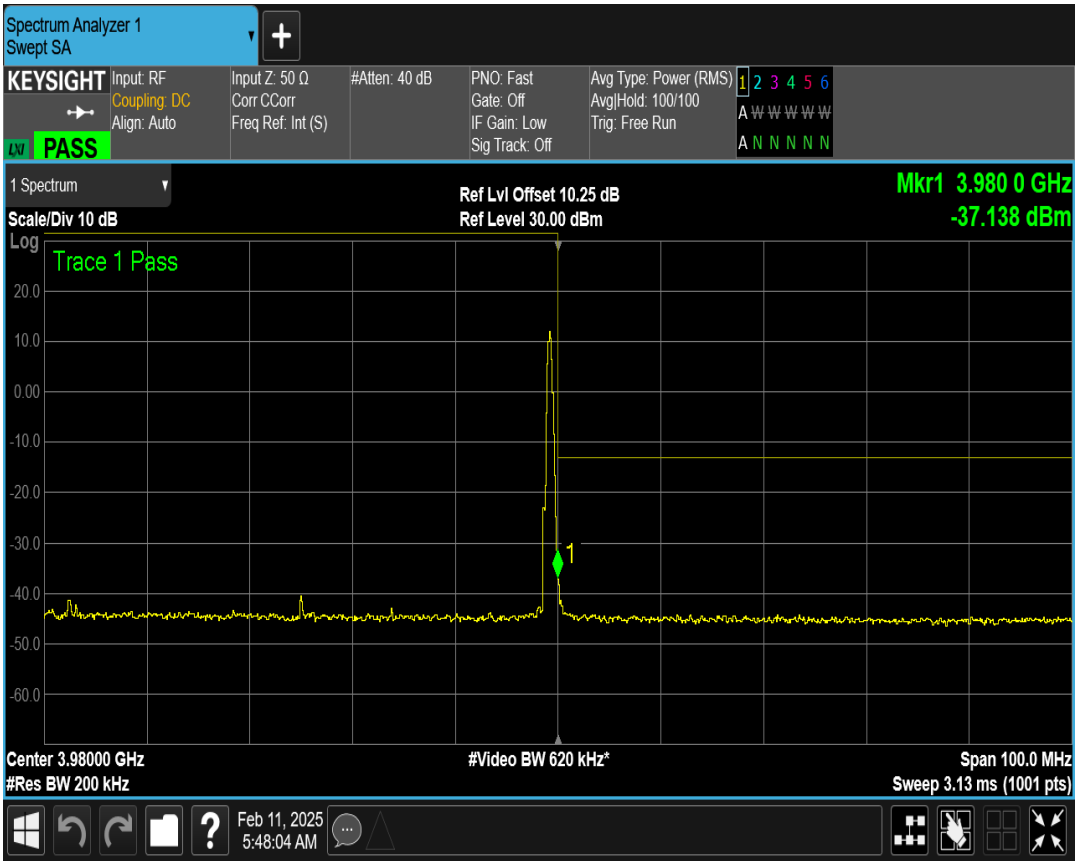


n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=1@0

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=270@0



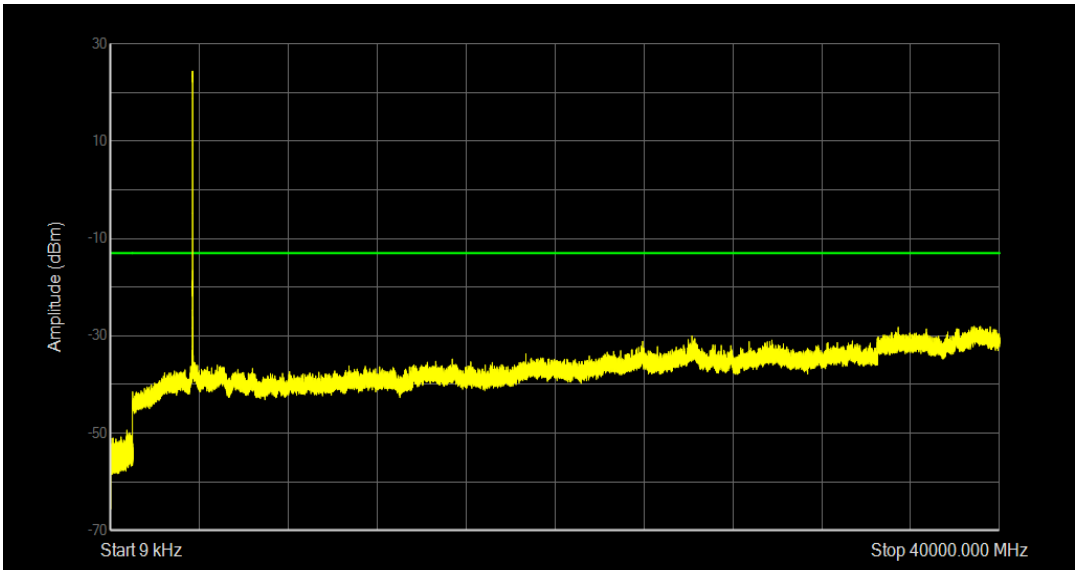
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=1@269



6 Out-of-band emissions for NR FR1

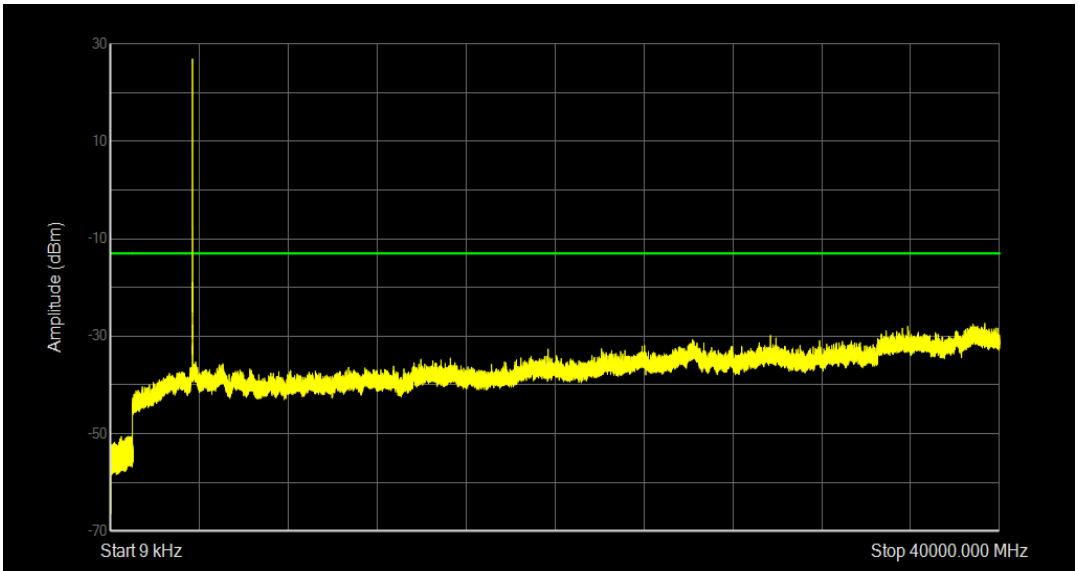
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	15	10	647000	50@0	DFT_QPSK	38861.20	-28.05	-13	PASS
n77(3700-3980)	15	10	647000	1@0	DFT_QPSK	39338.95	-27.37	-13	PASS
n77(3700-3980)	15	10	647000	1@51	DFT_QPSK	39182.95	-27.00	-13	PASS
n77(3700-3980)	15	10	656000	50@0	DFT_QPSK	38916.78	-27.36	-13	PASS
n77(3700-3980)	15	10	656000	1@0	DFT_QPSK	39162.48	-27.28	-13	PASS
n77(3700-3980)	15	10	656000	1@51	DFT_QPSK	38854.38	-27.29	-13	PASS
n77(3700-3980)	15	10	665000	50@0	DFT_QPSK	38855.35	-26.27	-13	PASS
n77(3700-3980)	15	10	665000	1@0	DFT_QPSK	38935.30	-27.94	-13	PASS
n77(3700-3980)	15	10	665000	1@51	DFT_QPSK	39294.10	-27.75	-13	PASS
n77(3700-3980)	15	50	648334	270@0	DFT_QPSK	39093.25	-27.31	-13	PASS
n77(3700-3980)	15	50	648334	1@0	DFT_QPSK	38929.45	-26.79	-13	PASS
n77(3700-3980)	15	50	648334	1@269	DFT_QPSK	39017.20	-27.60	-13	PASS
n77(3700-3980)	15	50	656000	270@0	DFT_QPSK	39176.13	-27.36	-13	PASS
n77(3700-3980)	15	50	656000	1@0	DFT_QPSK	39078.63	-27.29	-13	PASS
n77(3700-3980)	15	50	656000	1@269	DFT_QPSK	38792.95	-27.56	-13	PASS
n77(3700-3980)	15	50	663666	270@0	DFT_QPSK	39083.50	-27.50	-13	PASS
n77(3700-3980)	15	50	663666	1@0	DFT_QPSK	38774.43	-27.15	-13	PASS
n77(3700-3980)	15	50	663666	1@269	DFT_QPSK	35890.38	-26.56	-13	PASS

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=50@0



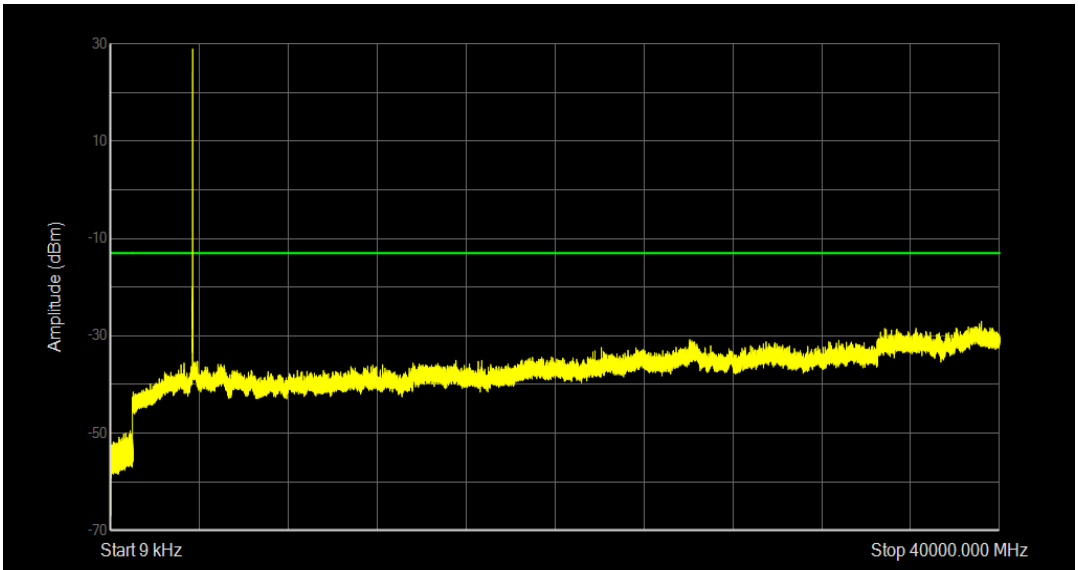
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01065675	-38.96	-13
2	0.15	30	10	0.15	-49.37	-13
3	30	1000	100	750.34625	-49.4	-13
4	1000	40000	1000	38861.2	-28.05	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=1@0



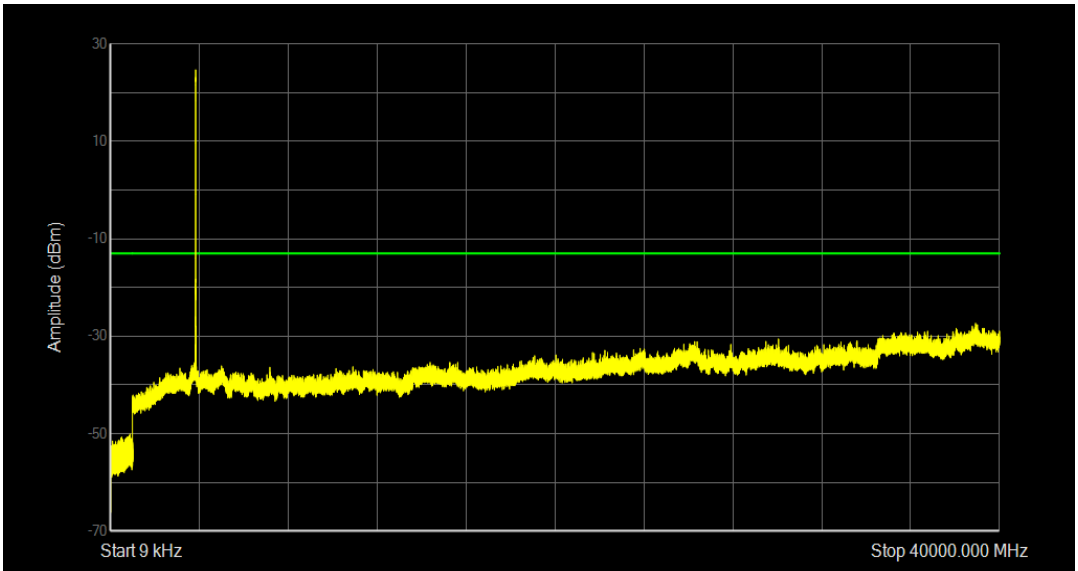
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-38.32	-13
2	0.15	30	10	0.15	-50.51	-13
3	30	1000	100	990.4455	-50.32	-13
4	1000	40000	1000	39338.95	-27.37	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=1@51



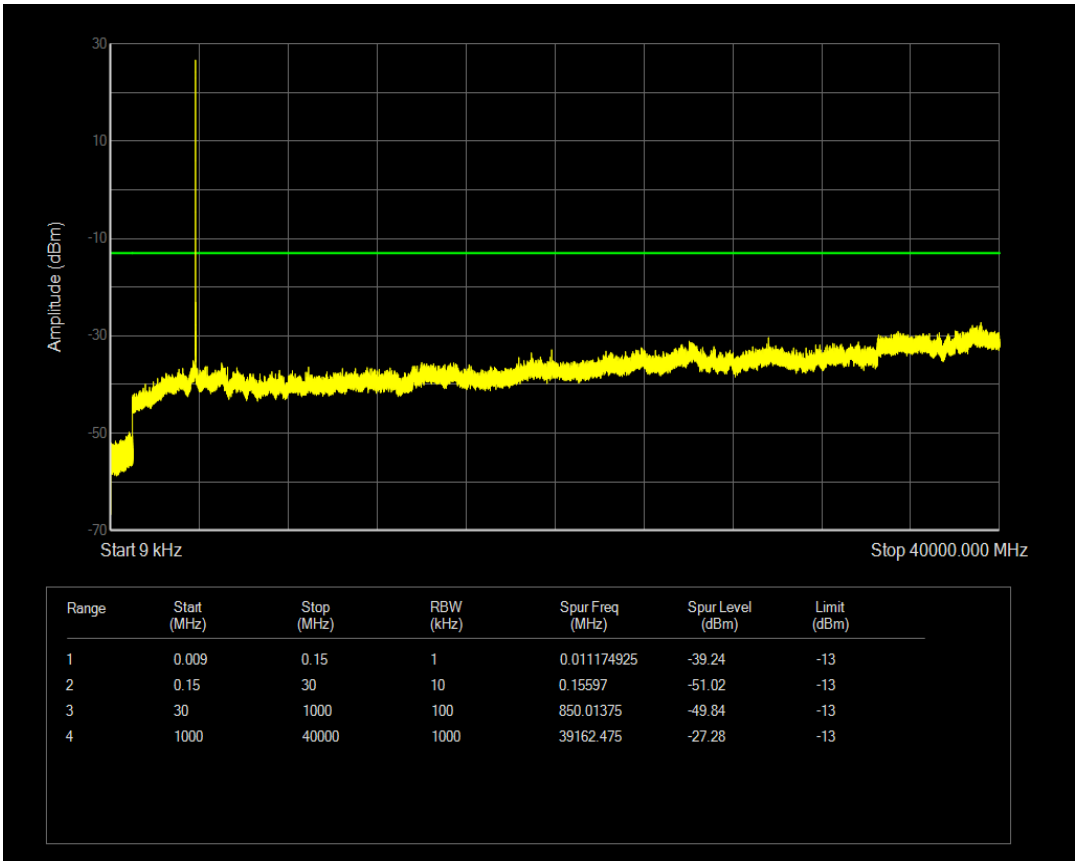
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013085475	-39.92	-13
2	0.15	30	10	0.152985	-51.07	-13
3	30	1000	100	899.314	-49.5	-13
4	1000	40000	1000	39182.95	-27	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=656000 RB=50@0



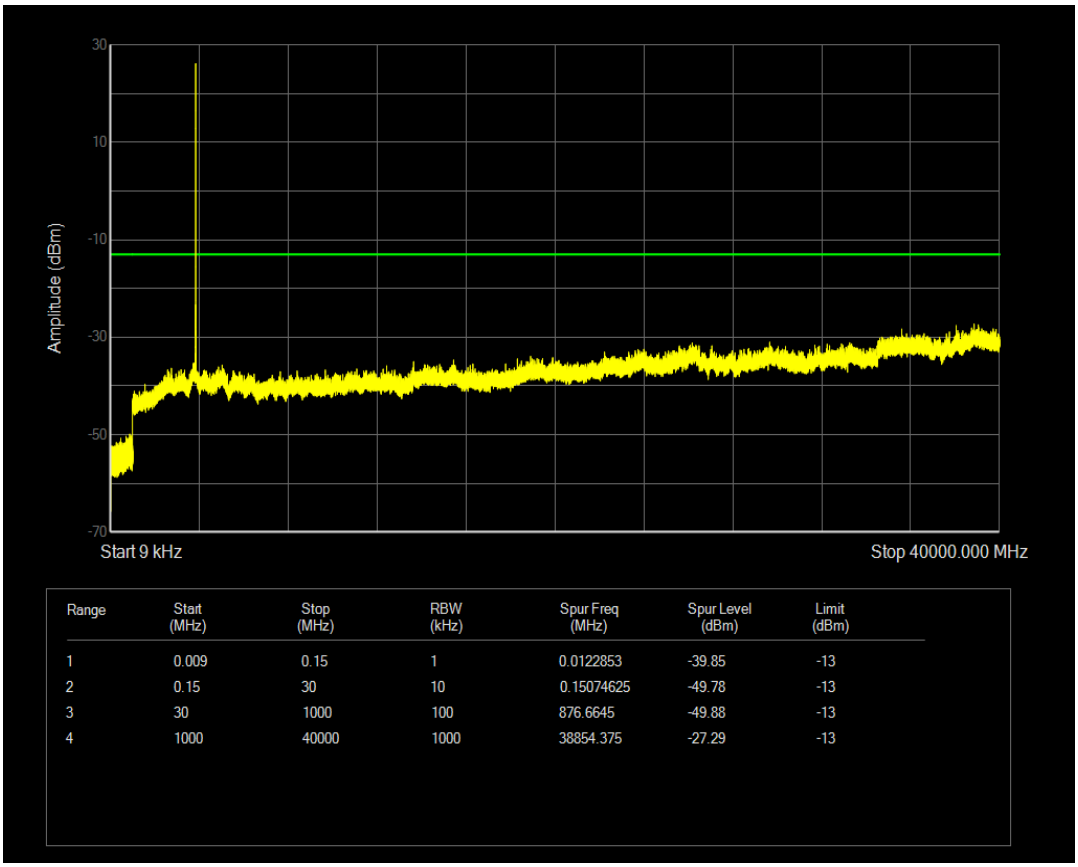
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0123135	-38.49	-13
2	0.15	30	10	0.15	-51.1	-13
3	30	1000	100	890.39	-50.09	-13
4	1000	40000	1000	38916.775	-27.36	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=656000 RB=1@0



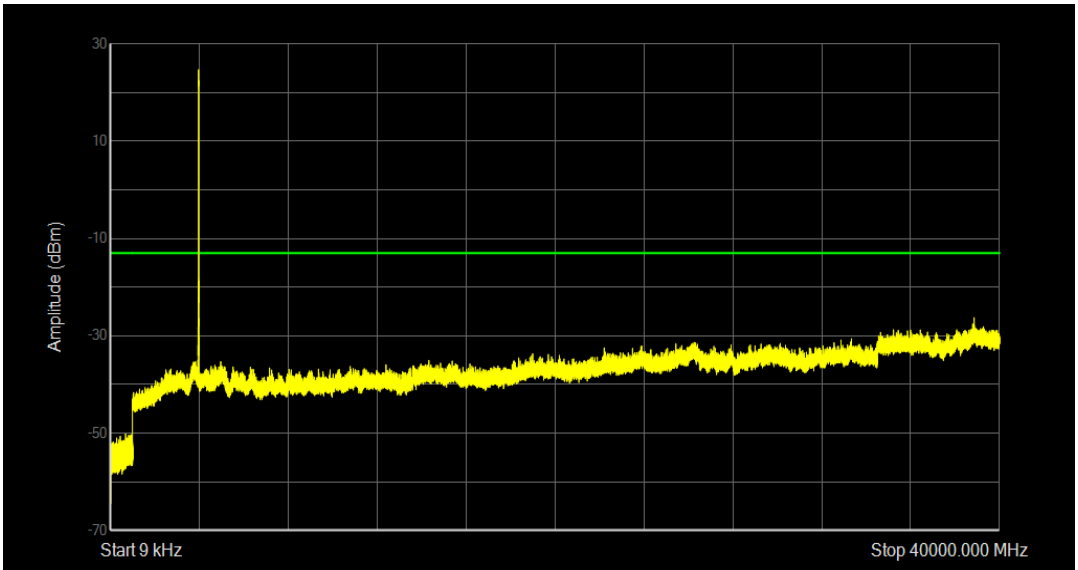
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011174925	-39.24	-13
2	0.15	30	10	0.15597	-51.02	-13
3	30	1000	100	850.01375	-49.84	-13
4	1000	40000	1000	39162.475	-27.28	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=656000 RB=1@51



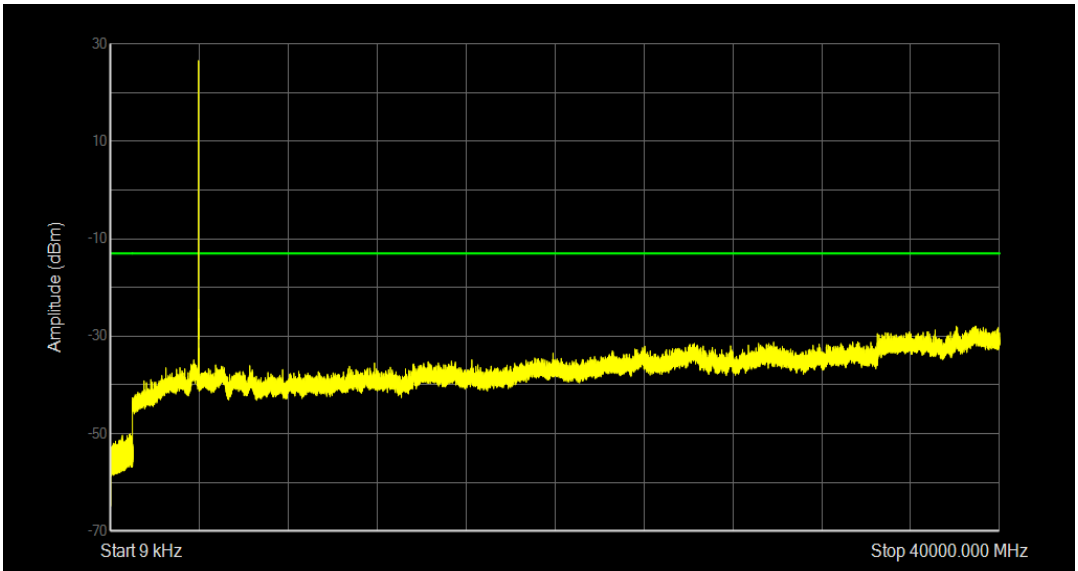
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0122853	-39.85	-13
2	0.15	30	10	0.15074625	-49.78	-13
3	30	1000	100	876.6645	-49.88	-13
4	1000	40000	1000	38854.375	-27.29	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=50@0



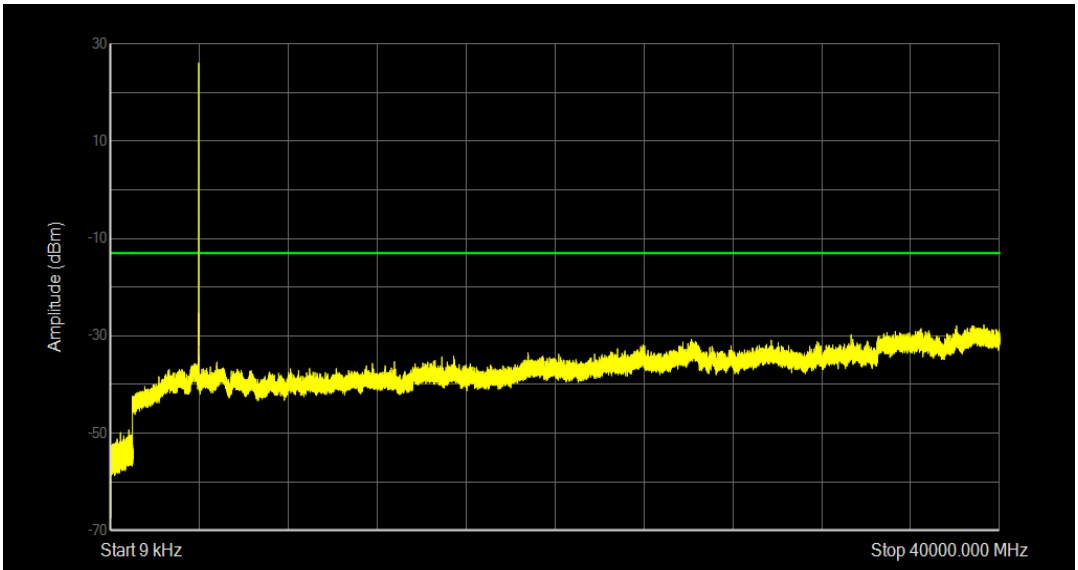
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009645075	-39.29	-13
2	0.15	30	10	0.1574625	-50.91	-13
3	30	1000	100	690.88525	-50.2	-13
4	1000	40000	1000	38855.35	-26.27	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=1@0



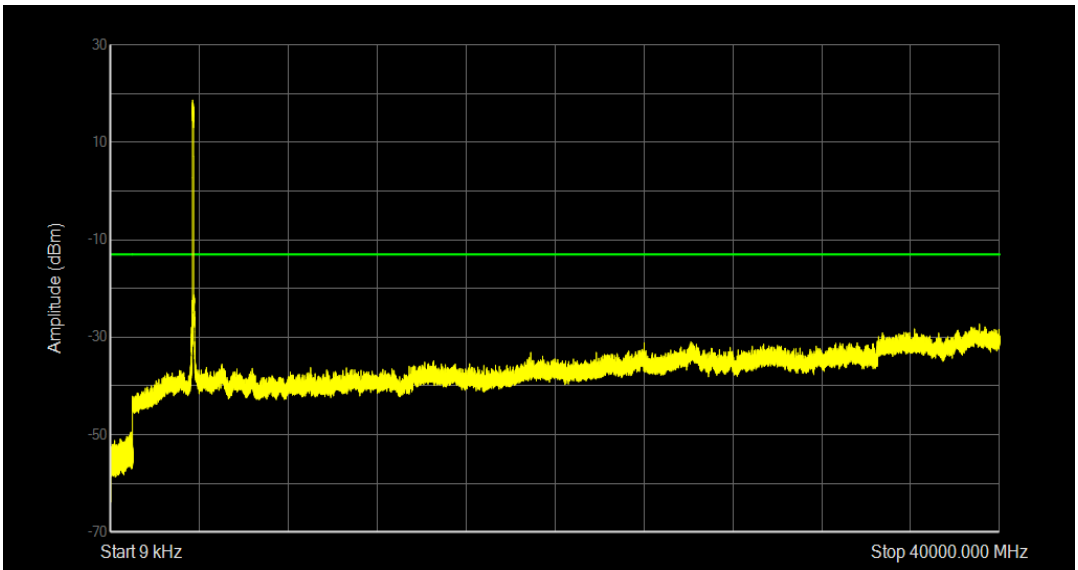
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009705	-38.58	-13
2	0.15	30	10	0.15	-50.1	-13
3	30	1000	100	901.254	-50.04	-13
4	1000	40000	1000	38935.3	-27.94	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=1@51



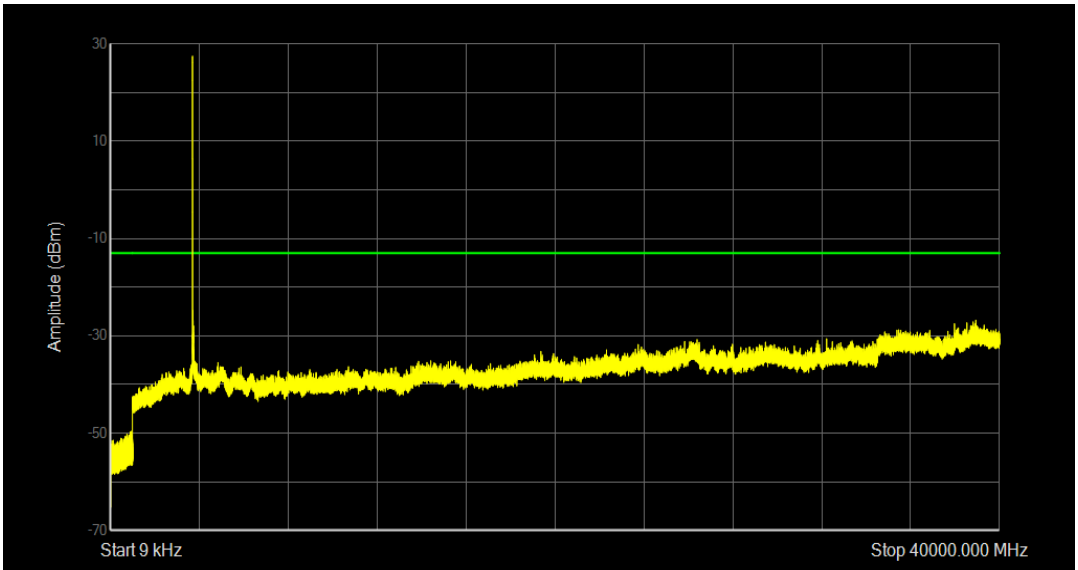
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010434675	-39.88	-13
2	0.15	30	10	0.15	-50.62	-13
3	30	1000	100	838.66475	-49.34	-13
4	1000	40000	1000	39294.1	-27.75	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=270@0



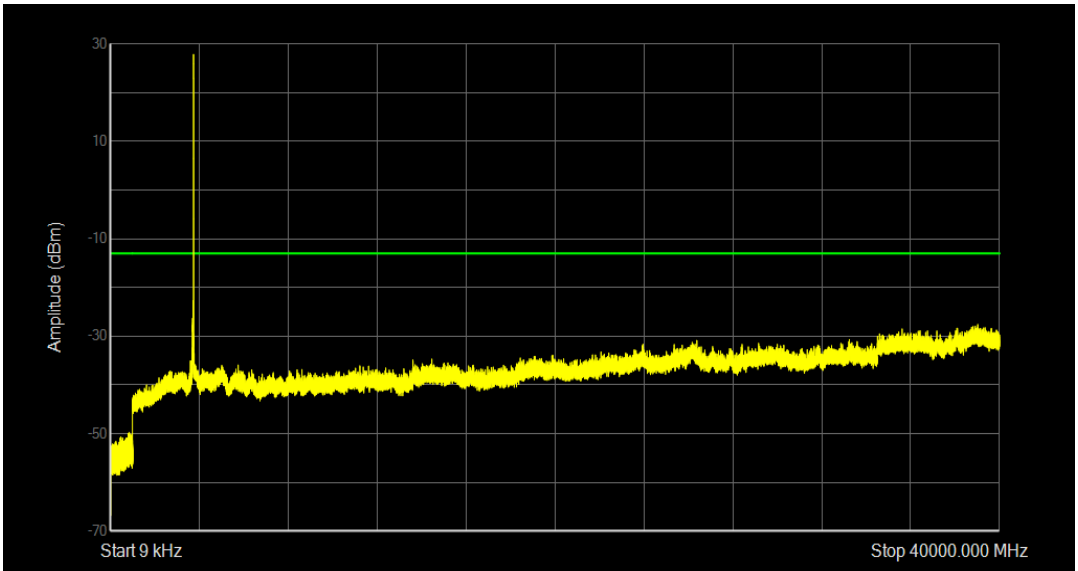
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0131172	-39.62	-13
2	0.15	30	10	0.1604475	-48.79	-13
3	30	1000	100	965.63775	-49.45	-13
4	1000	40000	1000	39093.25	-27.31	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=1@0



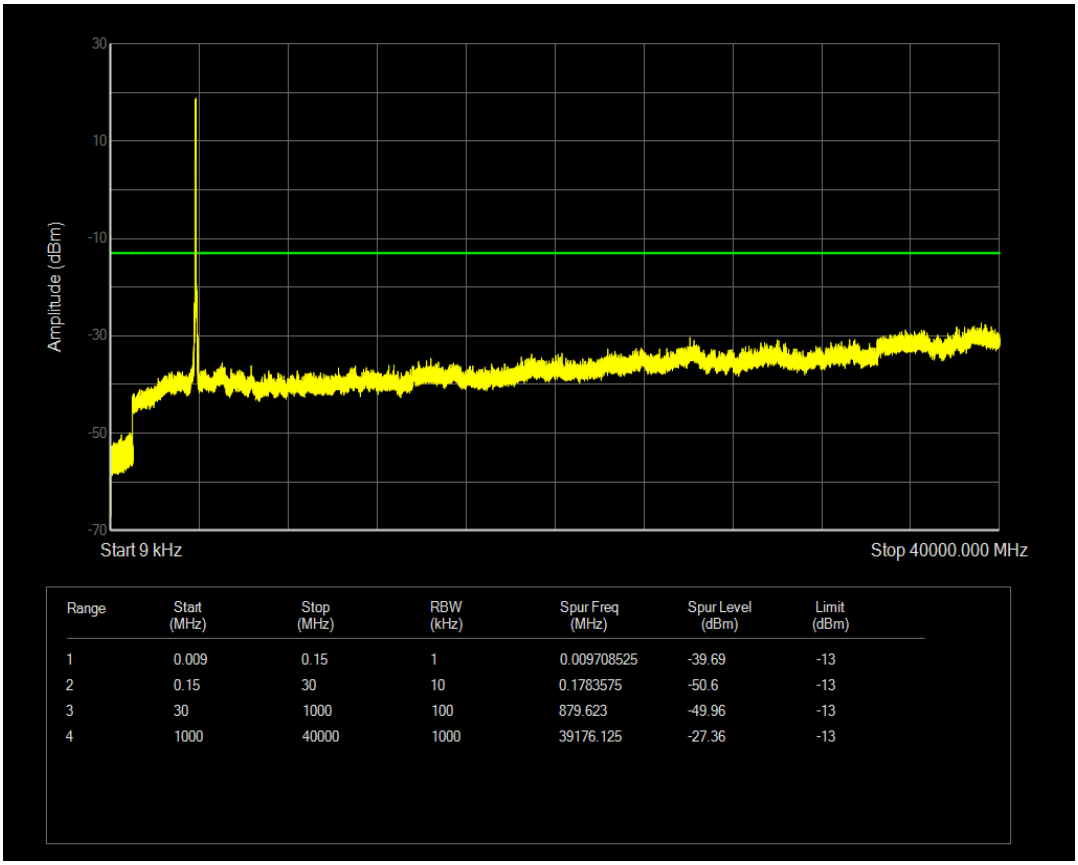
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.016191	-39.81	-13
2	0.15	30	10	0.15223875	-49.86	-13
3	30	1000	100	950.336	-49.64	-13
4	1000	40000	1000	38929.45	-26.79	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=1@269



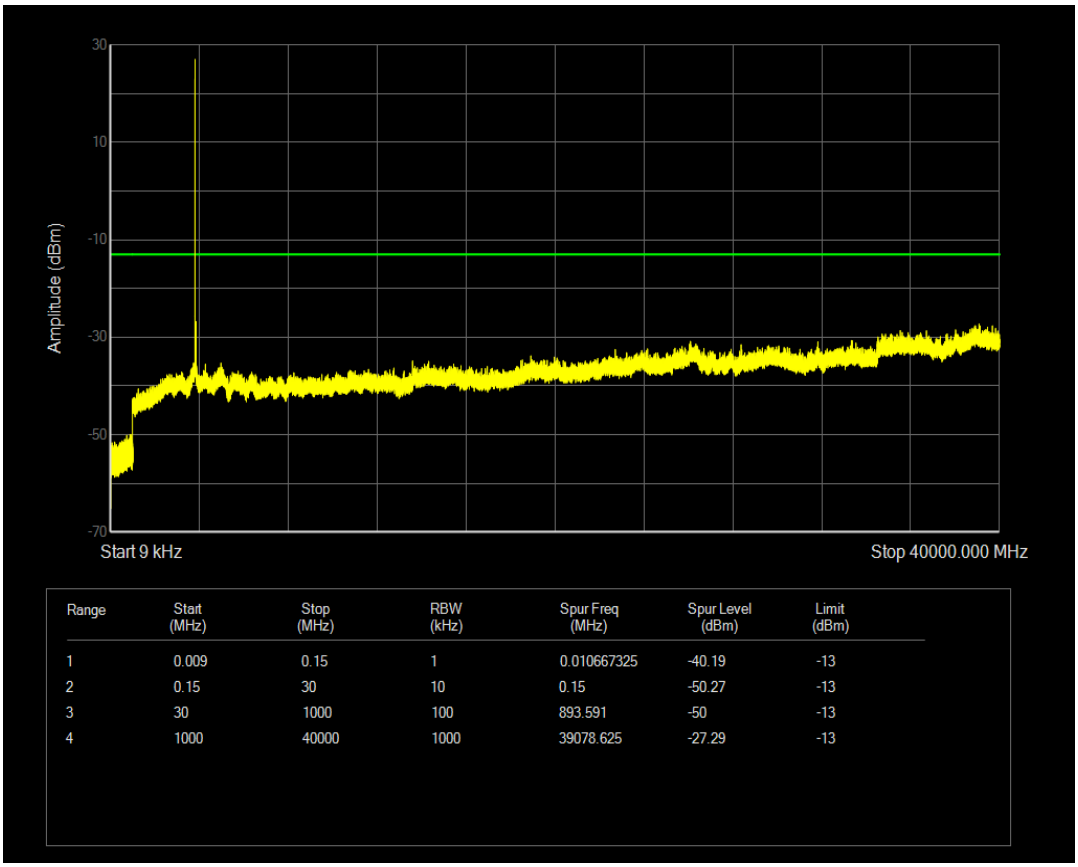
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.014424975	-39.26	-13
2	0.15	30	10	0.152985	-49.94	-13
3	30	1000	100	858.45275	-49.76	-13
4	1000	40000	1000	39017.2	-27.6	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=656000 RB=270@0



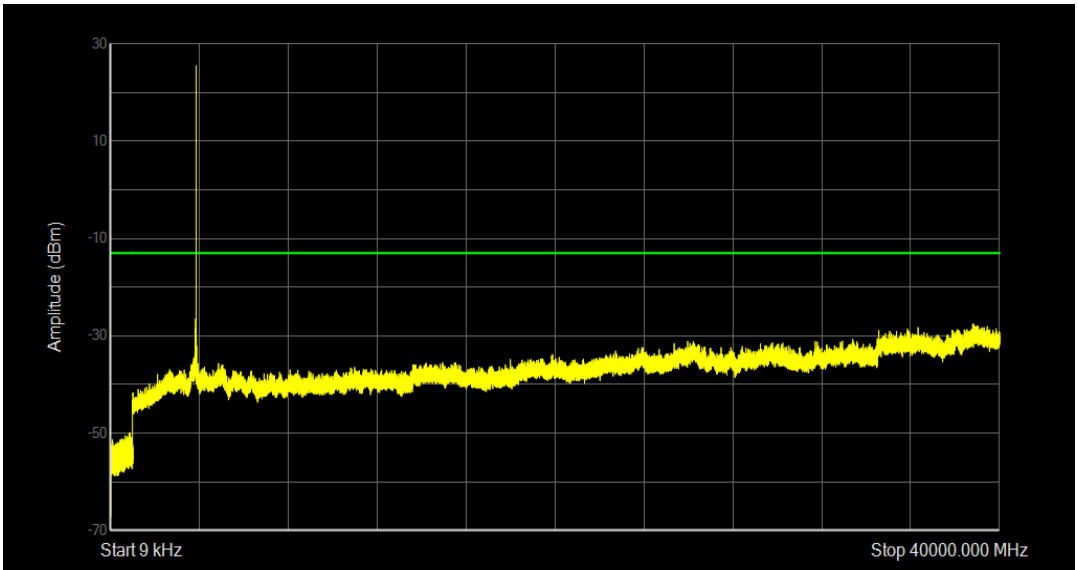
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009708525	-39.69	-13
2	0.15	30	10	0.1783575	-50.6	-13
3	30	1000	100	879.623	-49.96	-13
4	1000	40000	1000	39176.125	-27.36	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=656000 RB=1@0



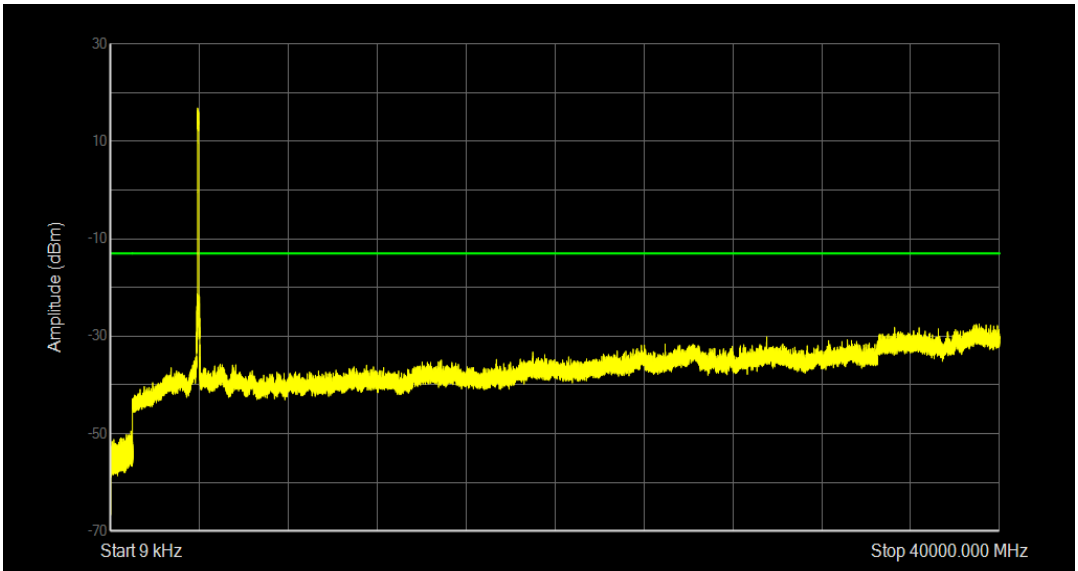
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010667325	-40.19	-13
2	0.15	30	10	0.15	-50.27	-13
3	30	1000	100	893.591	-50	-13
4	1000	40000	1000	39078.625	-27.29	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=656000 RB=1@269



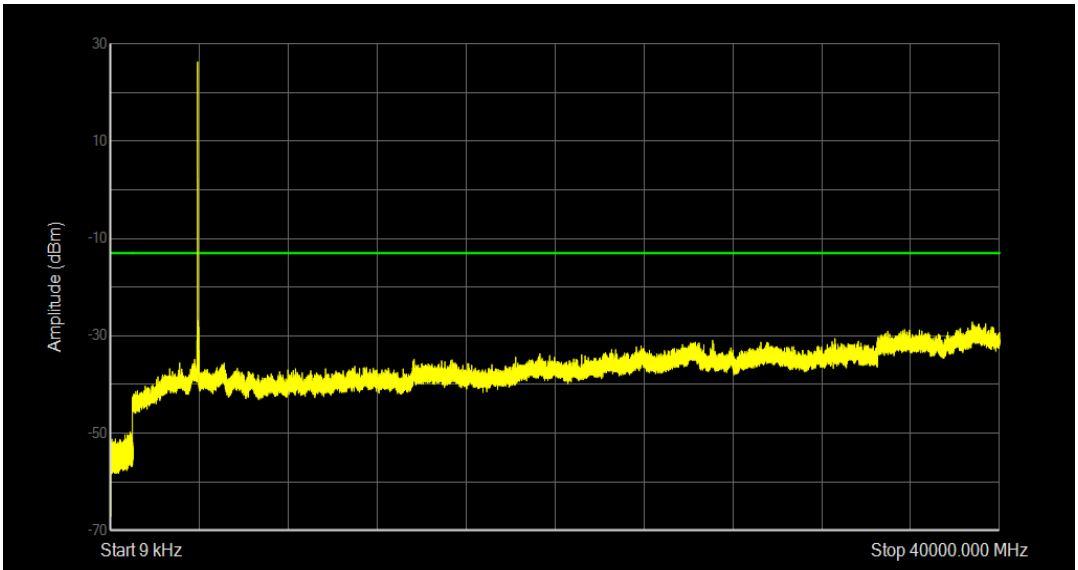
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01052985	-40.01	-13
2	0.15	30	10	0.17014875	-50.46	-13
3	30	1000	100	883.57575	-49.89	-13
4	1000	40000	1000	38792.95	-27.56	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=270@0



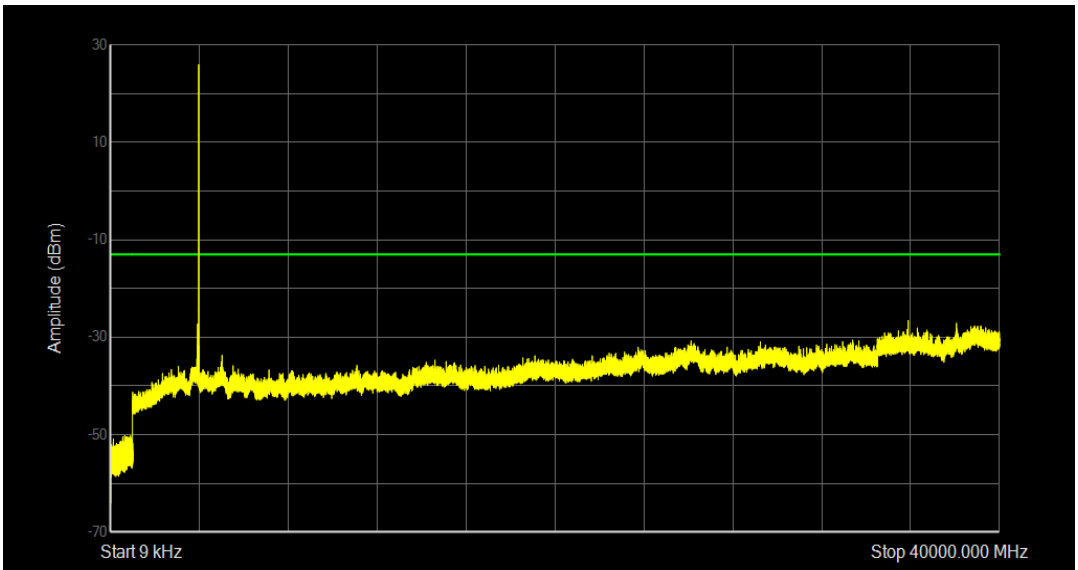
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012796425	-38.94	-13
2	0.15	30	10	0.188805	-51.32	-13
3	30	1000	100	935.3495	-49.47	-13
4	1000	40000	1000	39083.5	-27.5	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00978255	-38.83	-13
2	0.15	30	10	0.15074625	-49.27	-13
3	30	1000	100	904.3095	-49.74	-13
4	1000	40000	1000	38774.425	-27.15	-13

n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=1@269



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0144567	-39.83	-13
2	0.15	30	10	0.17313375	-51.37	-13
3	30	1000	100	653.29775	-50.21	-13
4	1000	40000	1000	35890.375	-26.56	-13