

n77(3700-3980) SCS=30kHz DFT_QAM16 BW=80MHz Channel=662666 RB=216@0



n77(3700-3980) SCS=30kHz DFT_QAM64 BW=80MHz Channel=662666 RB=216@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=80MHz Channel=662666 RB=216@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=80MHz Channel=662666 RB=217@0



n77(3700-3980) SCS=30kHz DFT_BPSK BW=90MHz Channel=649668 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QPSK BW=90MHz Channel=649668 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM16 BW=90MHz Channel=649668 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM64 BW=90MHz Channel=649668 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=90MHz Channel=649668 RB=240@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=649668 RB=245@0



n77(3700-3980) SCS=30kHz DFT BPSK BW=90MHz Channel=656000 RB=240@0



n77(3700-3980) SCS=30kHz DFT QPSK BW=90MHz Channel=656000 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM16 BW=90MHz Channel=656000 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM64 BW=90MHz Channel=656000 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=90MHz Channel=656000 RB=240@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=656000 RB=245@0



n77(3700-3980) SCS=30kHz DFT_BPSK BW=90MHz Channel=662332 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QPSK BW=90MHz Channel=662332 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM16 BW=90MHz Channel=662332 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM64 BW=90MHz Channel=662332 RB=240@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=90MHz Channel=662332 RB=240@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=662332 RB=245@0



n77(3700-3980) SCS=30kHz DFT_BPSK BW=100MHz Channel=650000 RB=270@0



n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=650000 RB=270@0



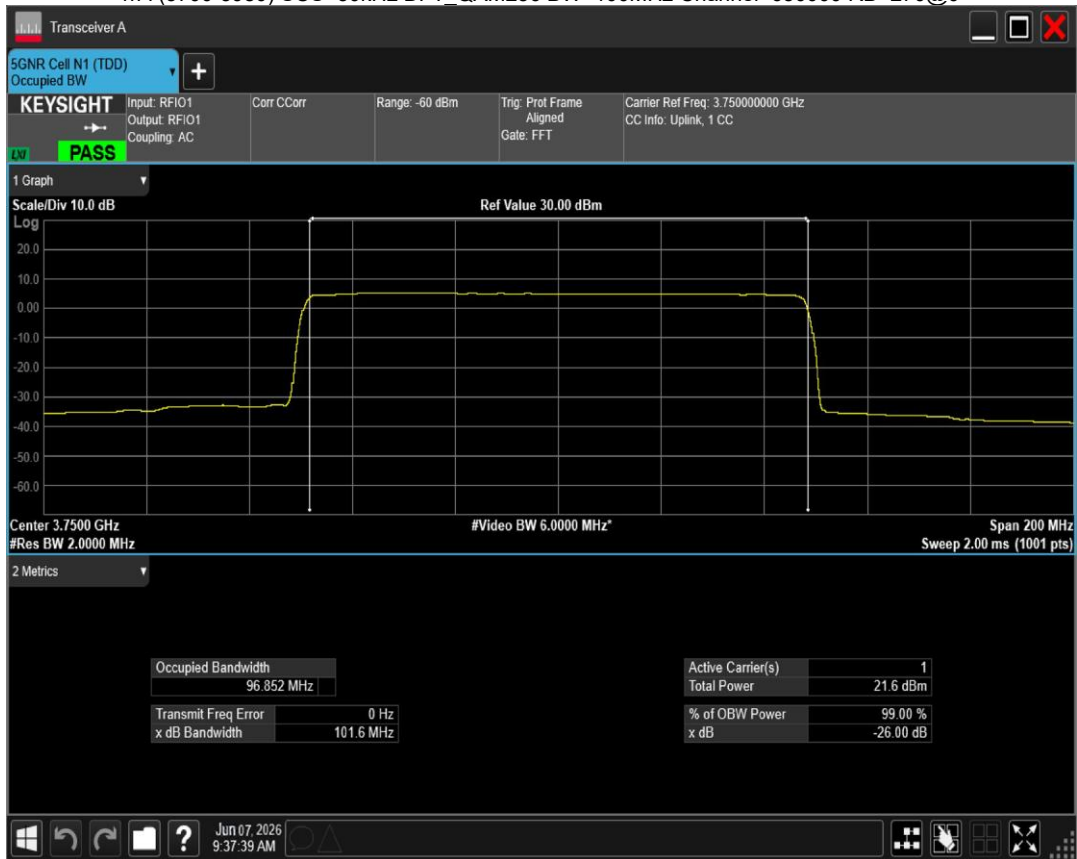
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n77(3700-3980) SCS=30kHz DFT_QAM64 BW=100MHz Channel=650000 RB=270@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=100MHz Channel=650000 RB=270@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=273@0



n77(3700-3980) SCS=30kHz DFT_BPSK BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=656000 RB=270@0



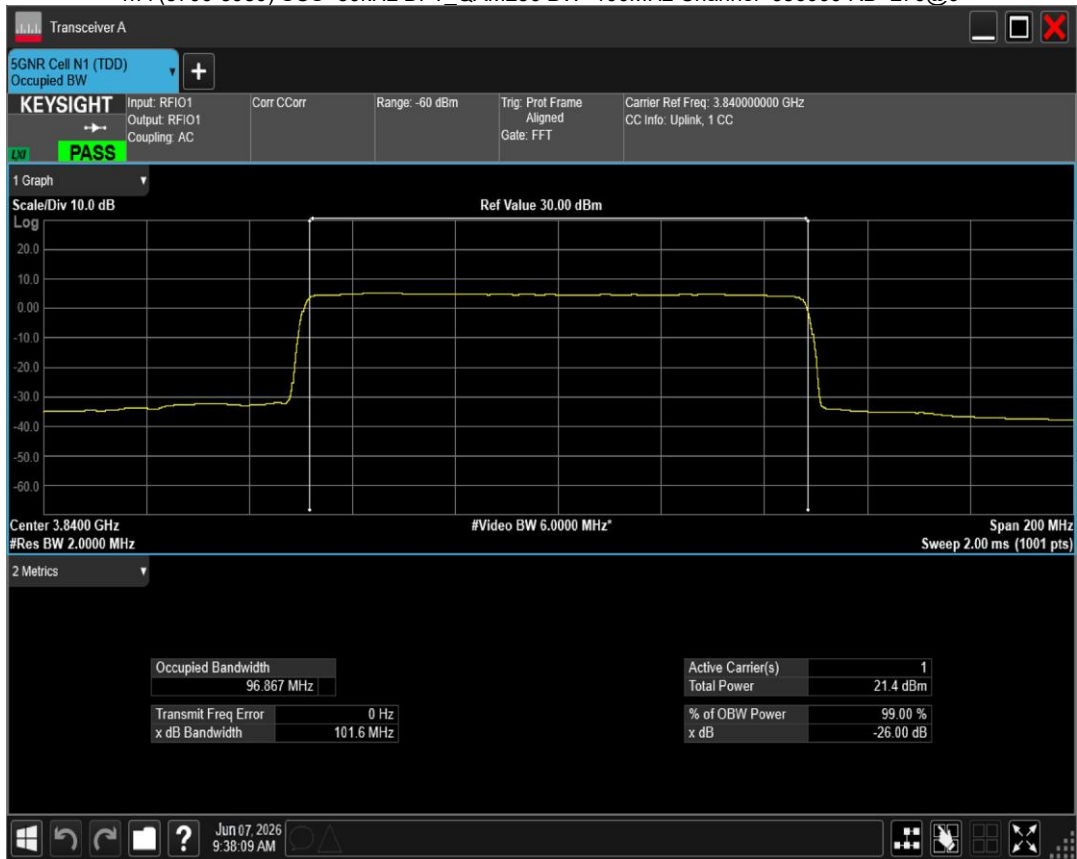
n77(3700-3980) SCS=30kHz DFT QAM16 BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz DFT QAM64 BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=656000 RB=273@0



n77(3700-3980) SCS=30kHz DFT_BPSK BW=100MHz Channel=662000 RB=270@0



n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=662000 RB=270@0



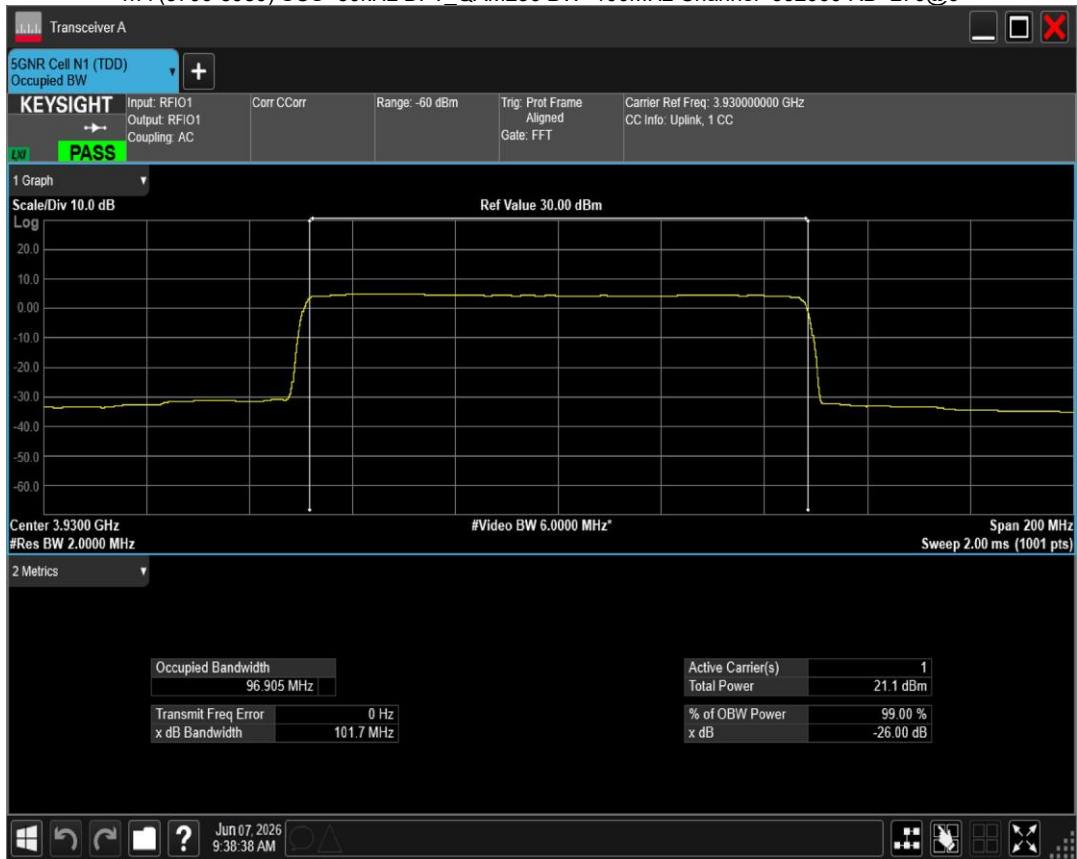
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n77(3700-3980) SCS=30kHz DFT QAM64 BW=100MHz Channel=662000 RB=270@0



n77(3700-3980) SCS=30kHz DFT_QAM256 BW=100MHz Channel=662000 RB=270@0

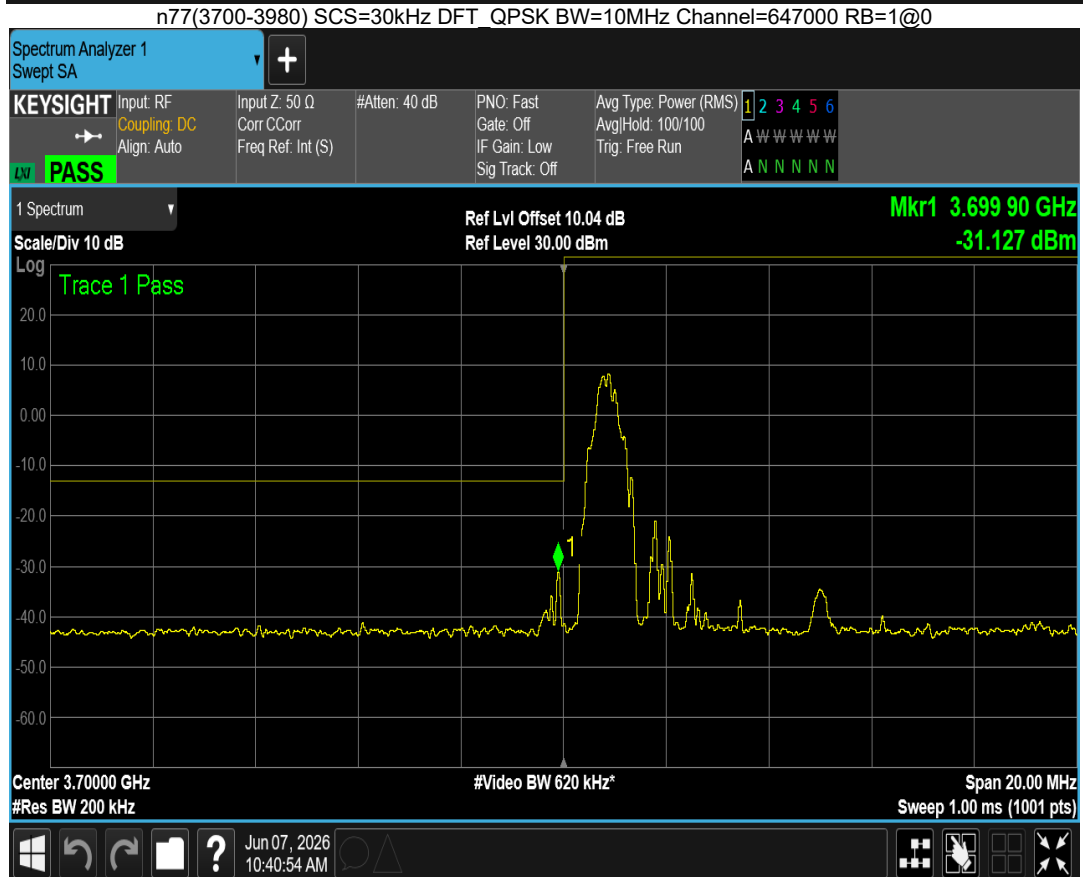
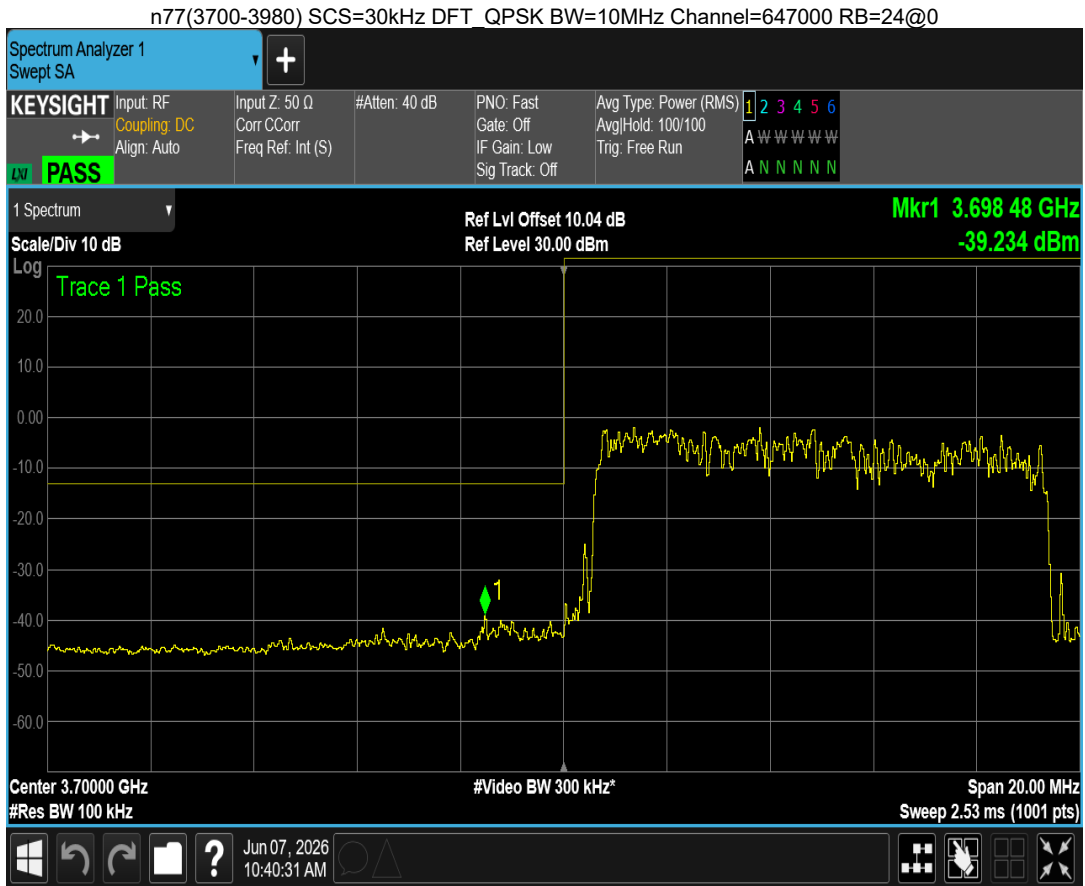


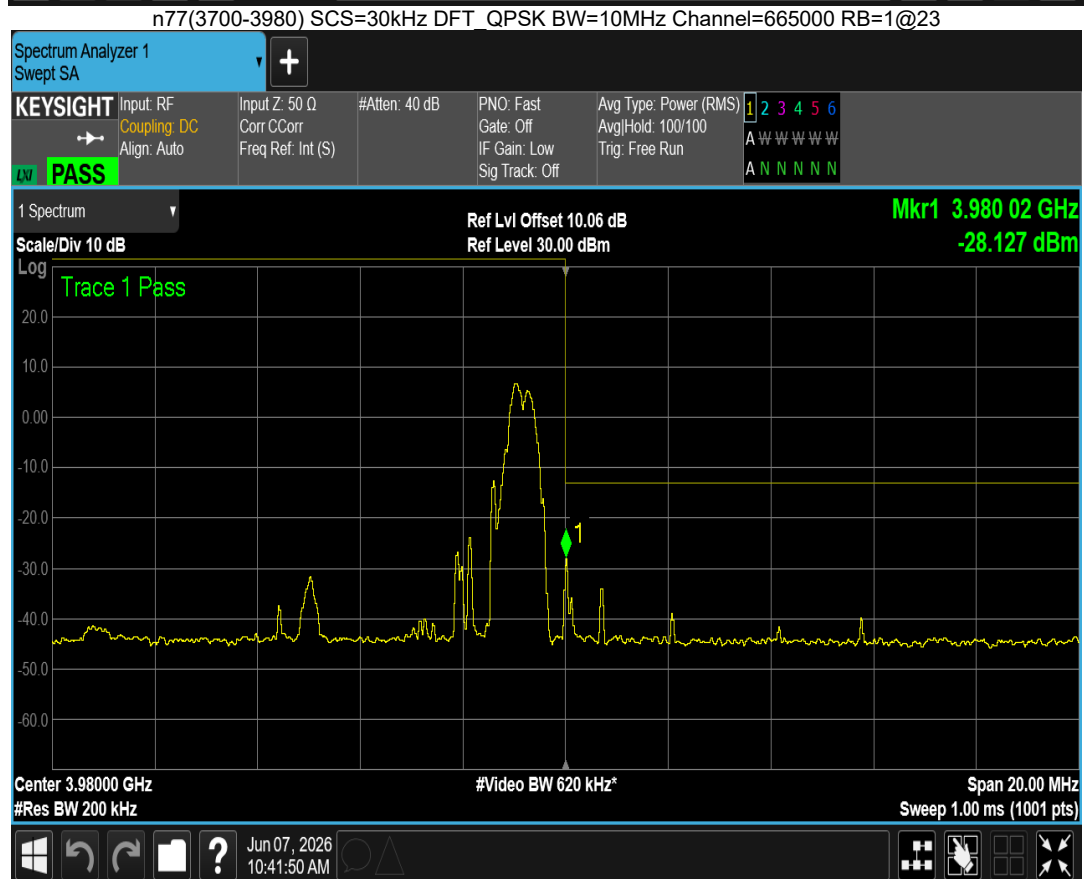
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=273@0



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)	30	10	647000	24@0	DFT_QPSK	3698.48	-39.23	-13	PASS
n77(3700-3980)	30	10	647000	1@0	DFT_QPSK	3699.90	-31.13	-13	PASS
n77(3700-3980)	30	10	665000	24@0	DFT_QPSK	3980.12	-37.87	-13	PASS
n77(3700-3980)	30	10	665000	1@23	DFT_QPSK	3980.02	-28.13	-13	PASS
n77(3700-3980)	30	100	650000	270@0	DFT_QPSK	3700.00	-23.05	-13	PASS
n77(3700-3980)	30	100	650000	1@0	DFT_QPSK	3700.00	-28.56	-13	PASS
n77(3700-3980)	30	100	662000	270@0	DFT_QPSK	3980.00	-35.75	-13	PASS
n77(3700-3980)	30	100	662000	1@272	DFT_QPSK	3980.00	-36.74	-13	PASS

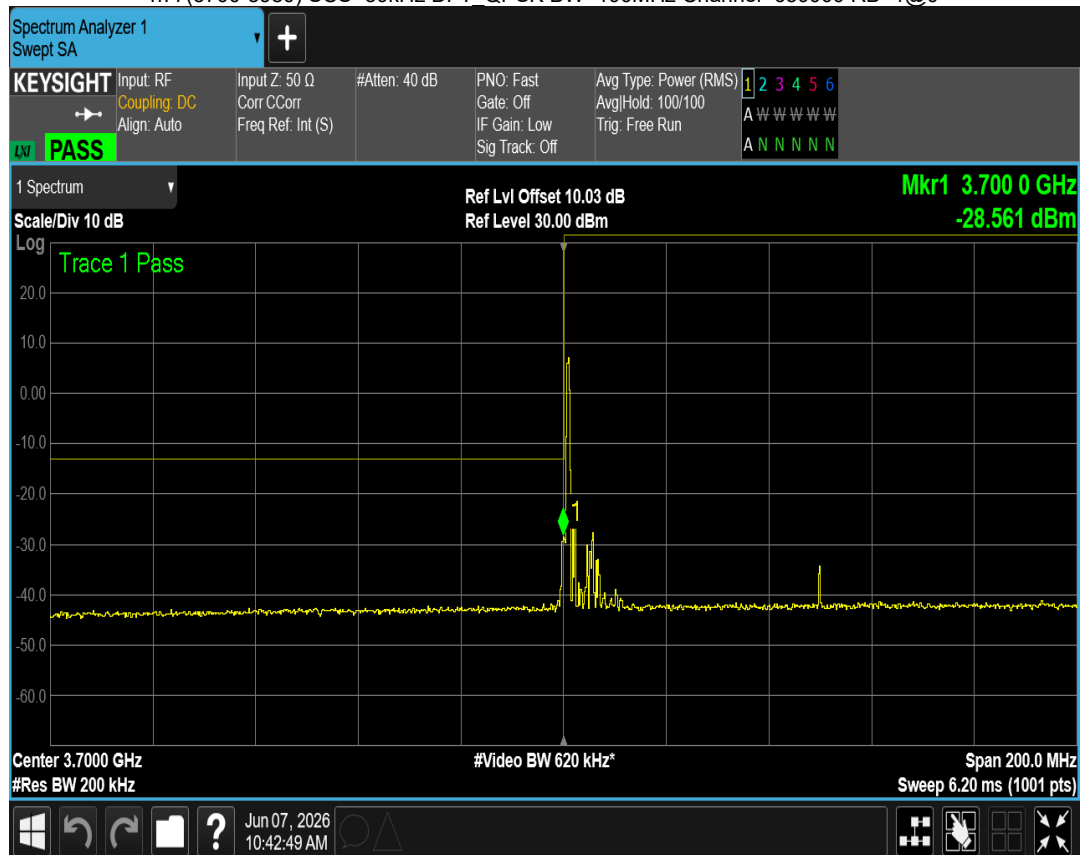




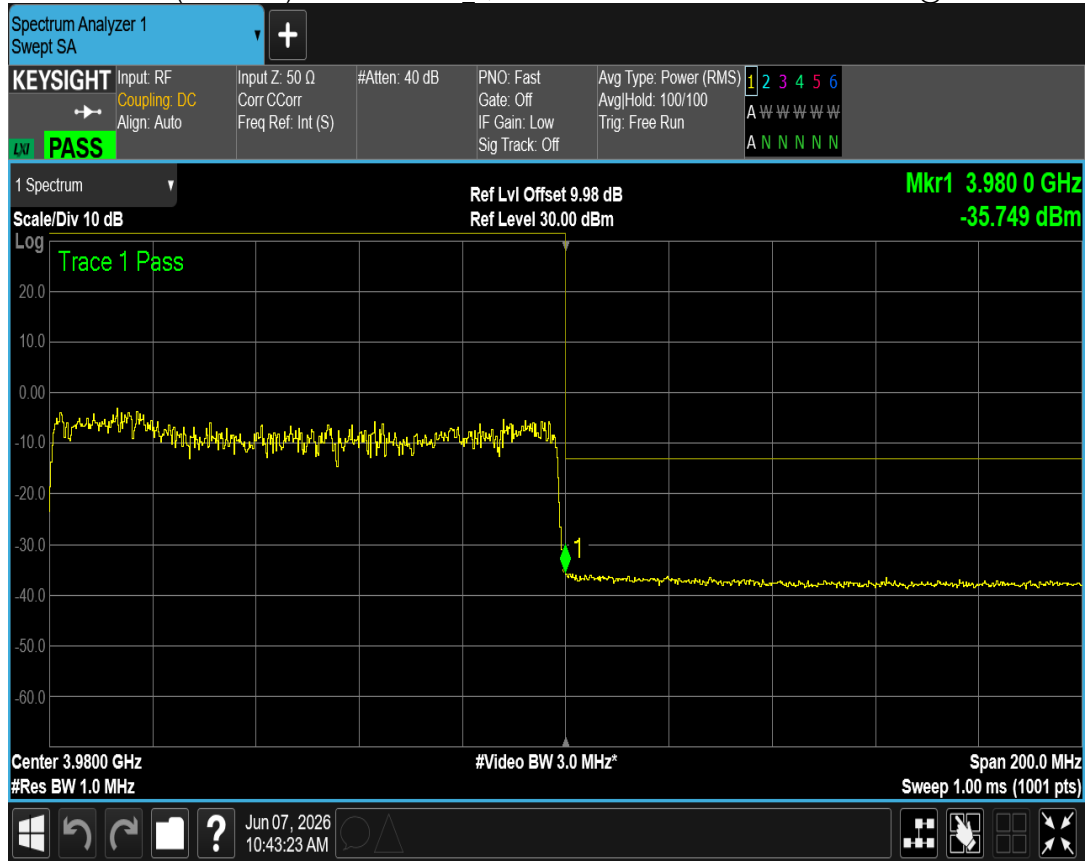
n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=650000 RB=270@0



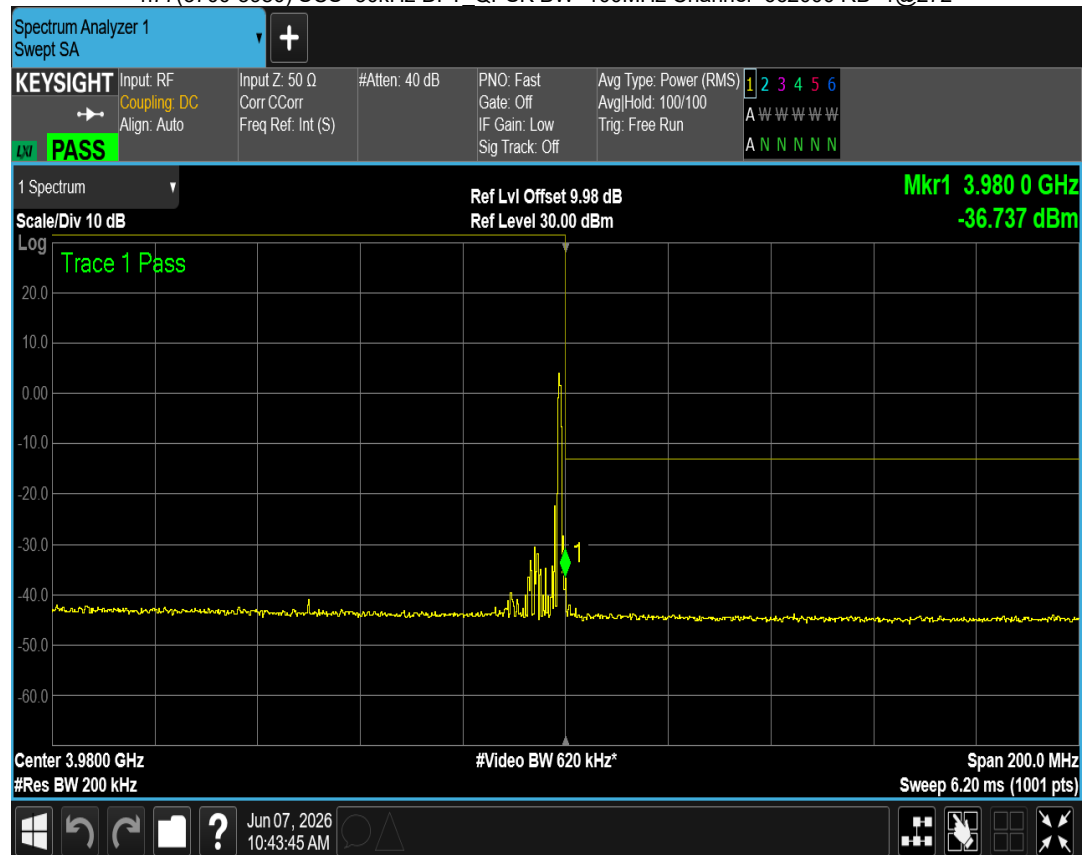
n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=650000 RB=1@0



n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=662000 RB=270@0



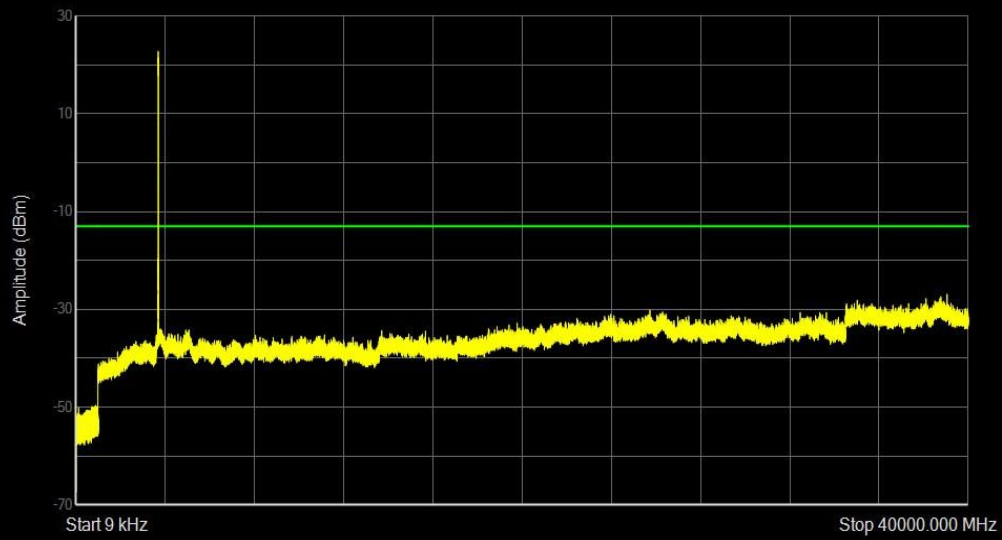
n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=662000 RB=1@272



6 Out-of-band emissions for NR FR1

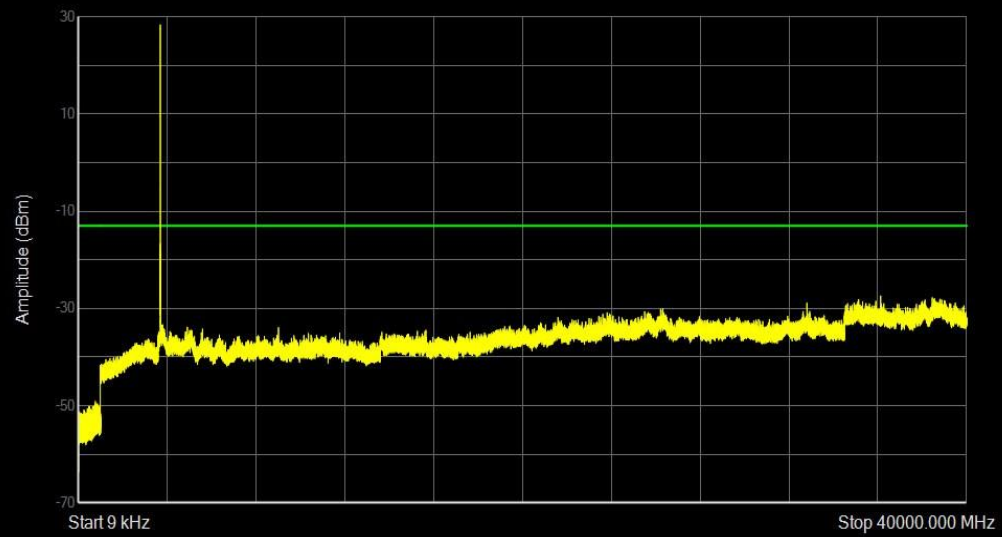
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	30	10	647000	24@0	DFT_QPSK	39049.38	-26.91	-13	PASS
n77(3700-3980)	30	10	647000	1@0	DFT_QPSK	36127.30	-27.42	-13	PASS
n77(3700-3980)	30	10	647000	1@23	DFT_QPSK	38623.30	-26.47	-13	PASS
n77(3700-3980)	30	10	656000	24@0	DFT_QPSK	38839.75	-27.10	-13	PASS
n77(3700-3980)	30	10	656000	1@0	DFT_QPSK	38710.08	-27.09	-13	PASS
n77(3700-3980)	30	10	656000	1@23	DFT_QPSK	38035.38	-27.50	-13	PASS
n77(3700-3980)	30	10	665000	24@0	DFT_QPSK	35824.08	-27.72	-13	PASS
n77(3700-3980)	30	10	665000	1@0	DFT_QPSK	38808.55	-27.46	-13	PASS
n77(3700-3980)	30	10	665000	1@23	DFT_QPSK	3418.98	-26.82	-13	PASS
n77(3700-3980)	30	100	650000	270@0	DFT_QPSK	38867.05	-27.72	-13	PASS
n77(3700-3980)	30	100	650000	1@0	DFT_QPSK	38755.90	-27.35	-13	PASS
n77(3700-3980)	30	100	650000	1@272	DFT_QPSK	35129.88	-27.41	-13	PASS
n77(3700-3980)	30	100	656000	270@0	DFT_QPSK	38830.00	-27.70	-13	PASS
n77(3700-3980)	30	100	656000	1@0	DFT_QPSK	38868.03	-27.53	-13	PASS
n77(3700-3980)	30	100	656000	1@272	DFT_QPSK	38501.43	-27.55	-13	PASS
n77(3700-3980)	30	100	662000	270@0	DFT_QPSK	35473.08	-27.79	-13	PASS
n77(3700-3980)	30	100	662000	1@0	DFT_QPSK	38697.40	-27.09	-13	PASS
n77(3700-3980)	30	100	662000	1@272	DFT_QPSK	38590.15	-27.66	-13	PASS

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=647000 RB=24@0



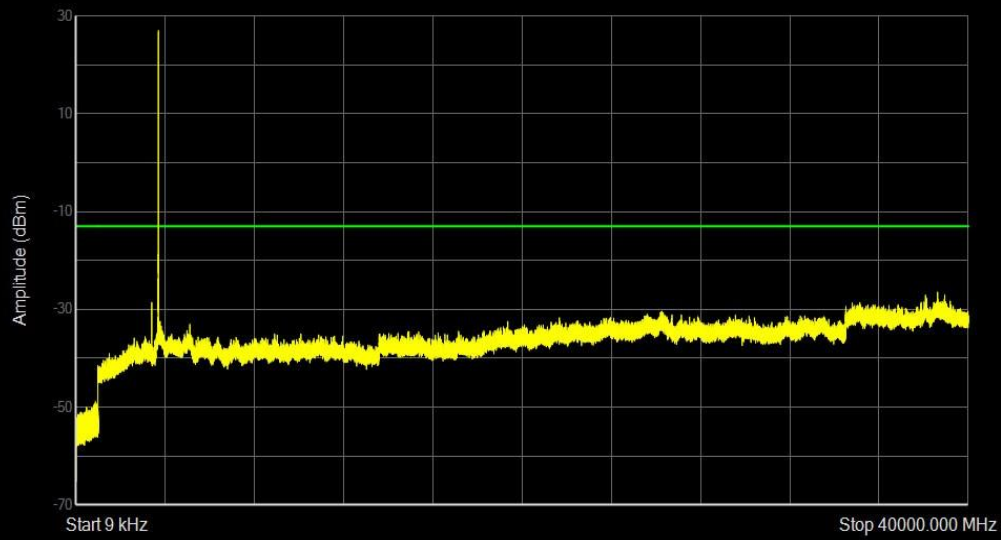
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013529625	-38.19	-13
2	0.15	30	10	0.16119375	-49.55	-13
3	30	1000	100	897.64075	-49.66	-13
4	1000	40000	1000	39049.375	-26.91	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=647000 RB=1@0



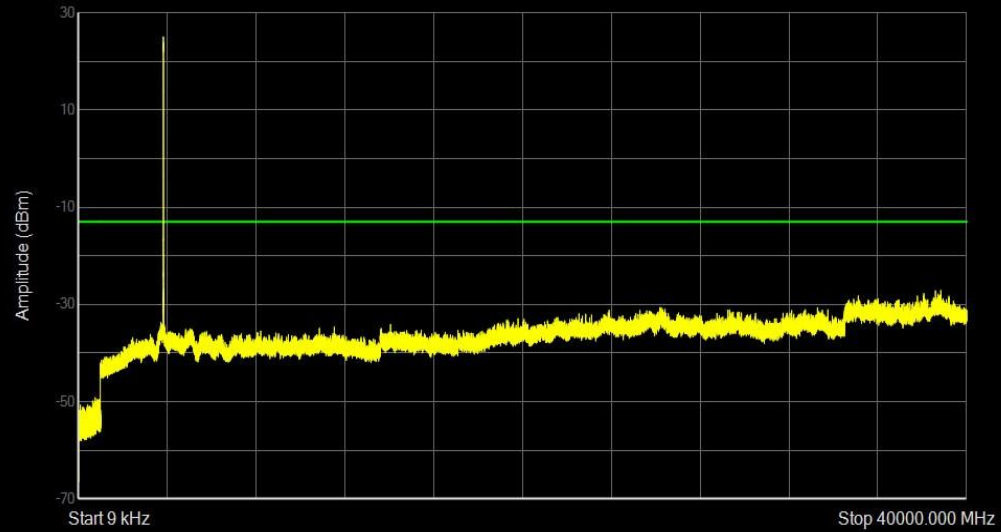
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0105651	-39.41	-13
2	0.15	30	10	0.16194	-50.59	-13
3	30	1000	100	777.40925	-49.13	-13
4	1000	40000	1000	36127.3	-27.42	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=647000 RB=1@23



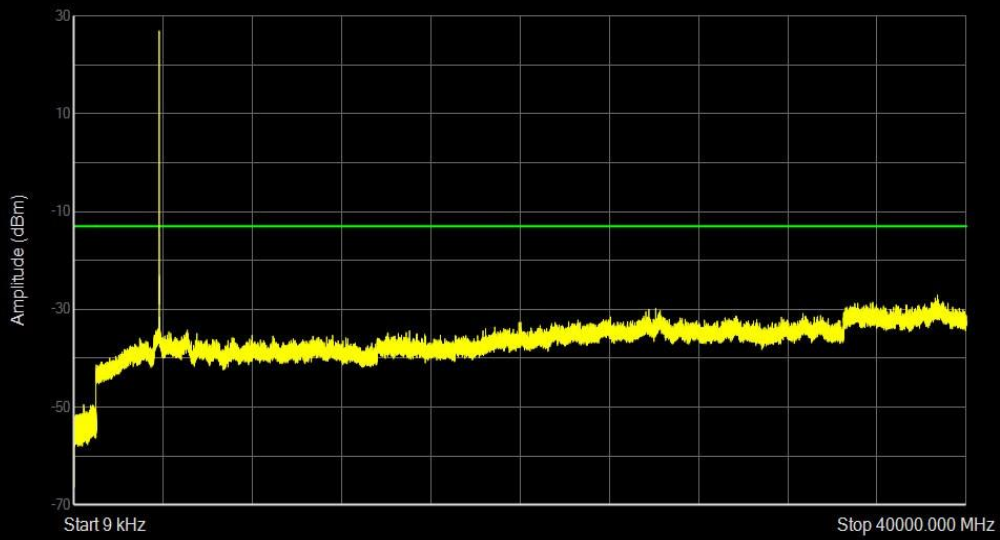
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00972615	-37.94	-13
2	0.15	30	10	0.15522375	-49.33	-13
3	30	1000	100	886.63125	-48.9	-13
4	1000	40000	1000	38623.3	-26.47	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=656000 RB=24@0



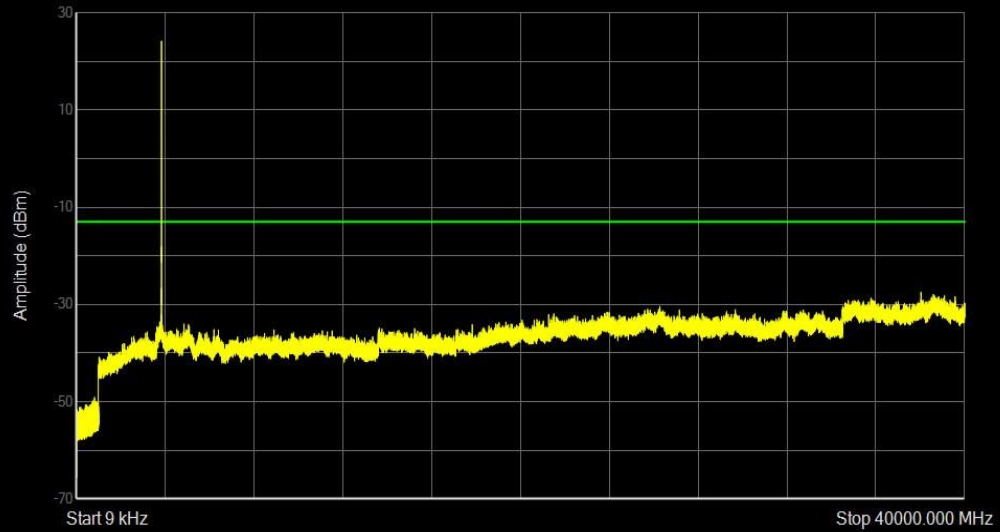
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0095499	-39.45	-13
2	0.15	30	10	0.15	-48.42	-13
3	30	1000	100	768.14575	-49.19	-13
4	1000	40000	1000	38839.75	-27.1	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=656000 RB=1@0



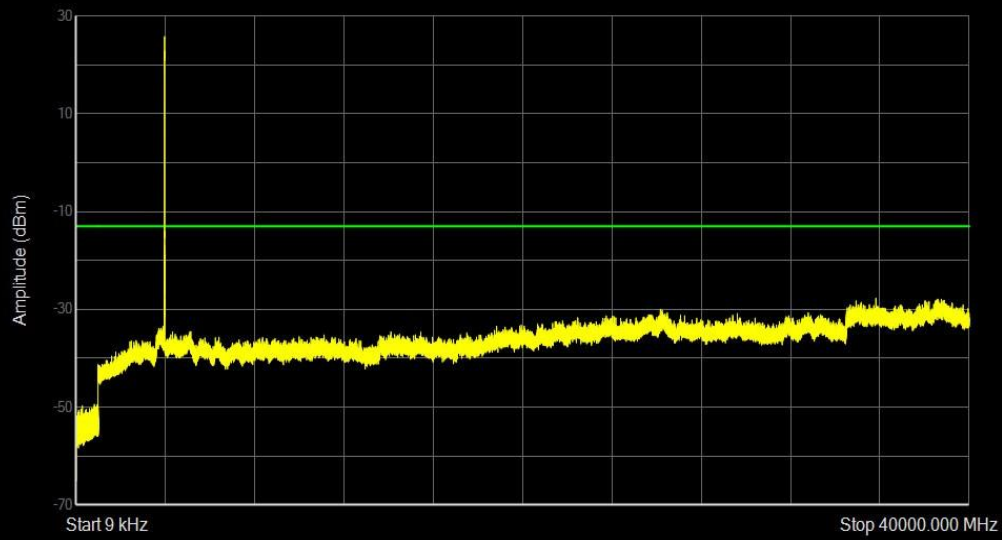
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010695525	-37.75	-13
2	0.15	30	10	0.15820875	-48.15	-13
3	30	1000	100	451.44075	-49.49	-13
4	1000	40000	1000	38710.075	-27.09	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=656000 RB=1@23



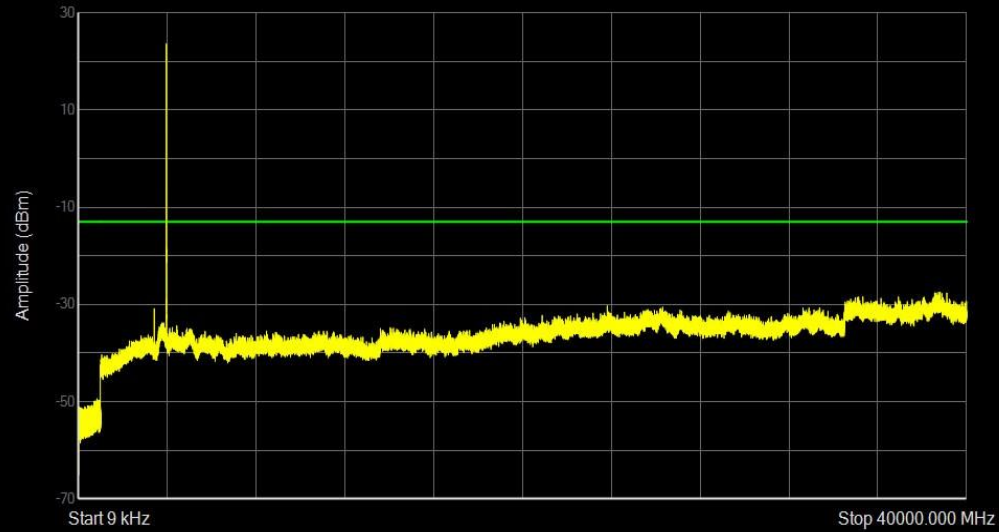
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0118905	-39.18	-13
2	0.15	30	10	0.15970125	-49.71	-13
3	30	1000	100	830.12875	-49.14	-13
4	1000	40000	1000	38035.375	-27.5	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=665000 RB=24@0



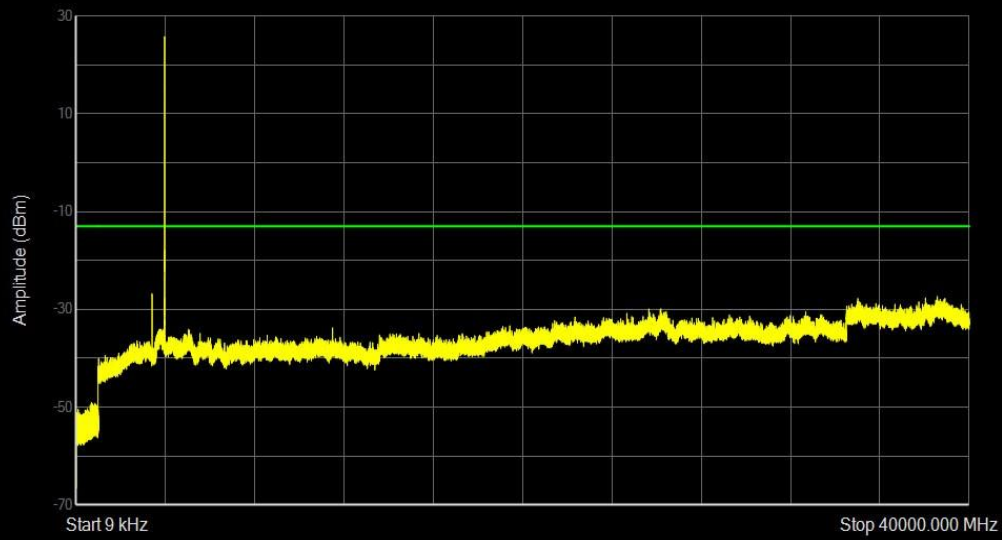
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0110163	-38.79	-13
2	0.15	30	10	0.15223875	-47.72	-13
3	30	1000	100	836.19125	-49.45	-13
4	1000	40000	1000	35824.075	-27.72	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=10MHz Channel=665000 RB=1@0



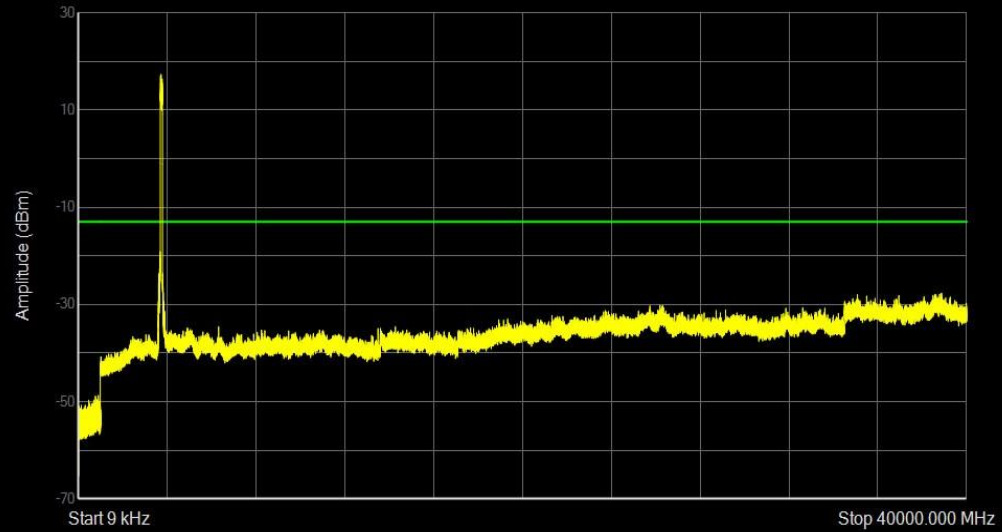
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012105525	-38.73	-13
2	0.15	30	10	0.16716375	-49.77	-13
3	30	1000	100	850.78975	-49.42	-13
4	1000	40000	1000	38808.55	-27.46	-13

n77(3700-3980) SCS=30kHz DFT_QPSK BW=10MHz Channel=665000 RB=1@23



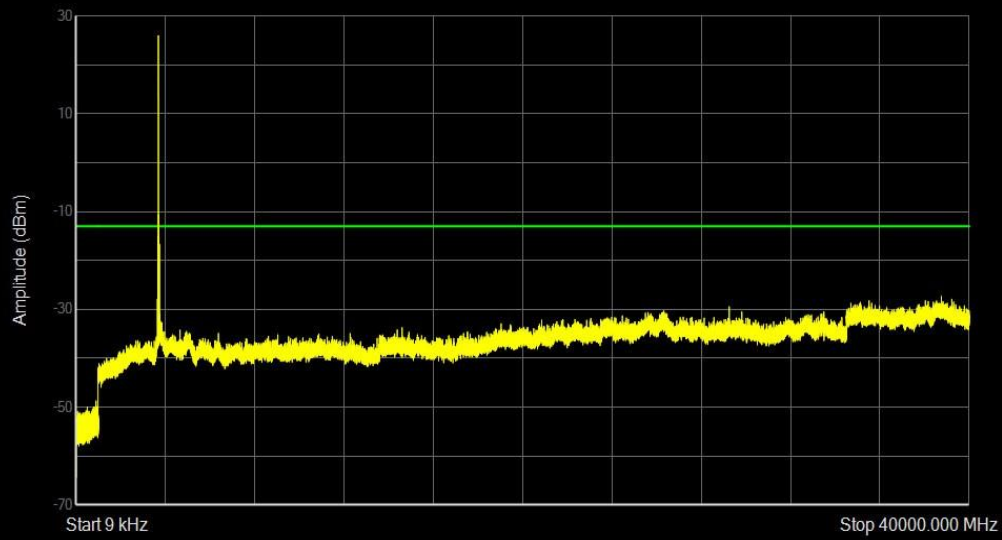
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010011675	-39.16	-13
2	0.15	30	10	0.15	-49.81	-13
3	30	1000	100	704.4895	-49.06	-13
4	1000	40000	1000	3418.975	-26.82	-13

n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=650000 RB=270@0



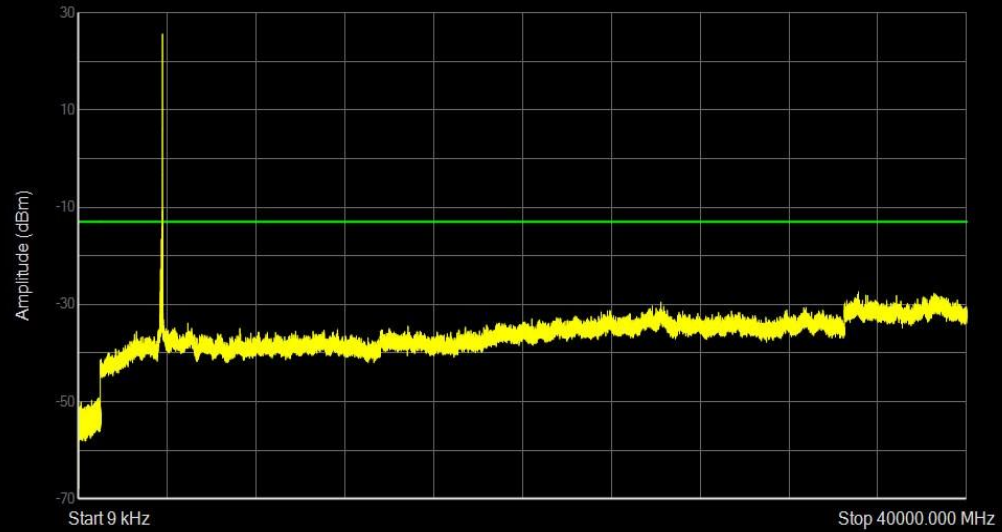
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-38.91	-13
2	0.15	30	10	0.18358125	-49.77	-13
3	30	1000	100	912.77275	-48.72	-13
4	1000	40000	1000	38867.05	-27.72	-13

n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=650000 RB=1@0



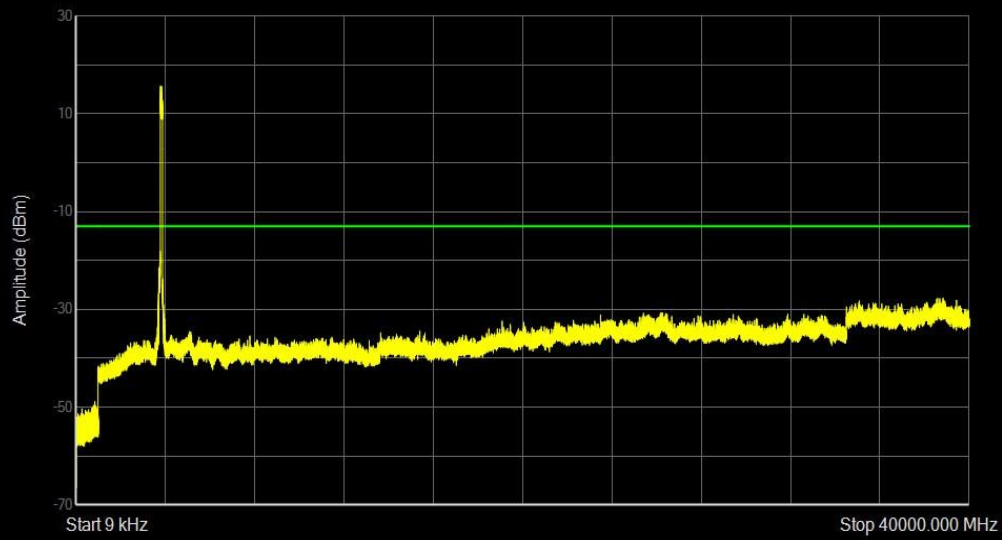
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013684725	-37.28	-13
2	0.15	30	10	0.1634325	-50.42	-13
3	30	1000	100	911.31775	-48.74	-13
4	1000	40000	1000	38755.9	-27.35	-13

n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=650000 RB=1@272



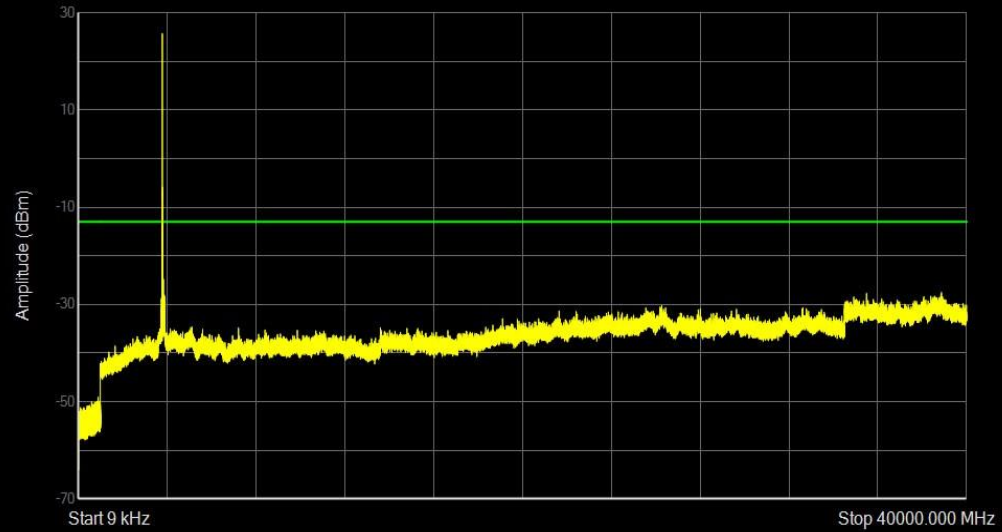
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.015567075	-39.45	-13
2	0.15	30	10	0.1544775	-49.09	-13
3	30	1000	100	924.243	-49.25	-13
4	1000	40000	1000	35129.875	-27.41	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=656000 RB=270@0



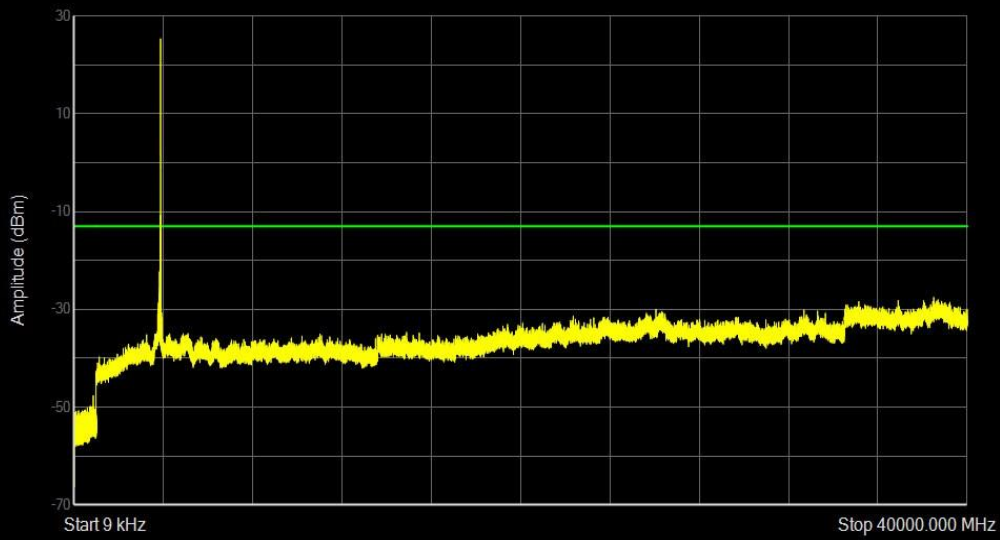
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0142029	-38.98	-13
2	0.15	30	10	0.1574625	-48.29	-13
3	30	1000	100	859.3015	-48.9	-13
4	1000	40000	1000	38830	-27.7	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=656000 RB=1@0



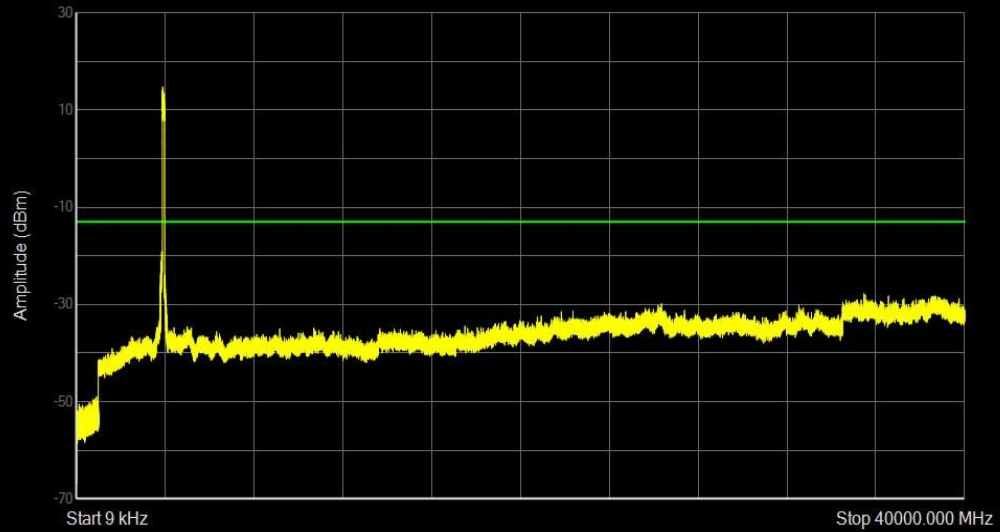
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012324075	-39.67	-13
2	0.15	30	10	0.15970125	-50.08	-13
3	30	1000	100	907.43775	-49.06	-13
4	1000	40000	1000	38868.025	-27.53	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=656000 RB=1@272



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013593075	-40.2	-13
2	0.15	30	10	0.1514925	-49.43	-13
3	30	1000	100	877.31925	-47.66	-13
4	1000	40000	1000	38501.425	-27.55	-13

n77(3700-3980) SCS=30kHz DFT QPSK BW=100MHz Channel=662000 RB=270@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0120738	-38.05	-13
2	0.15	30	10	0.1544775	-47.8	-13
3	30	1000	100	923.1275	-49	-13
4	1000	40000	1000	35473.075	-27.79	-13