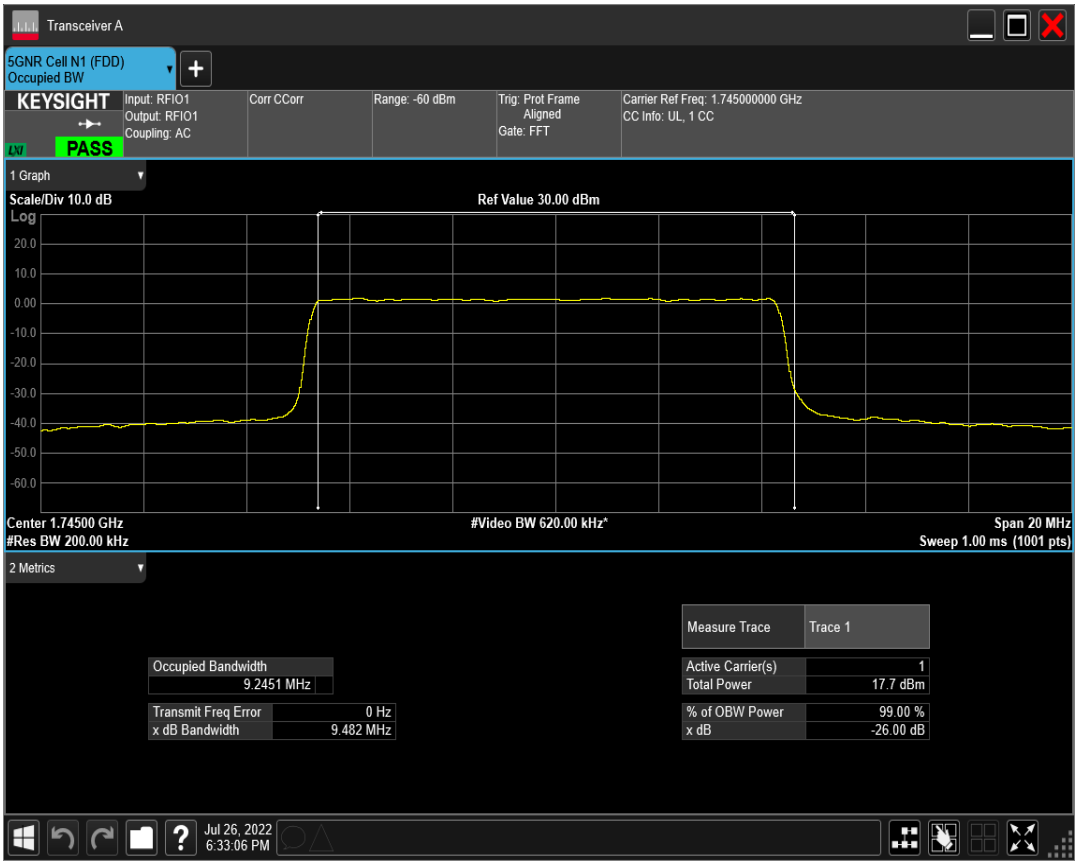
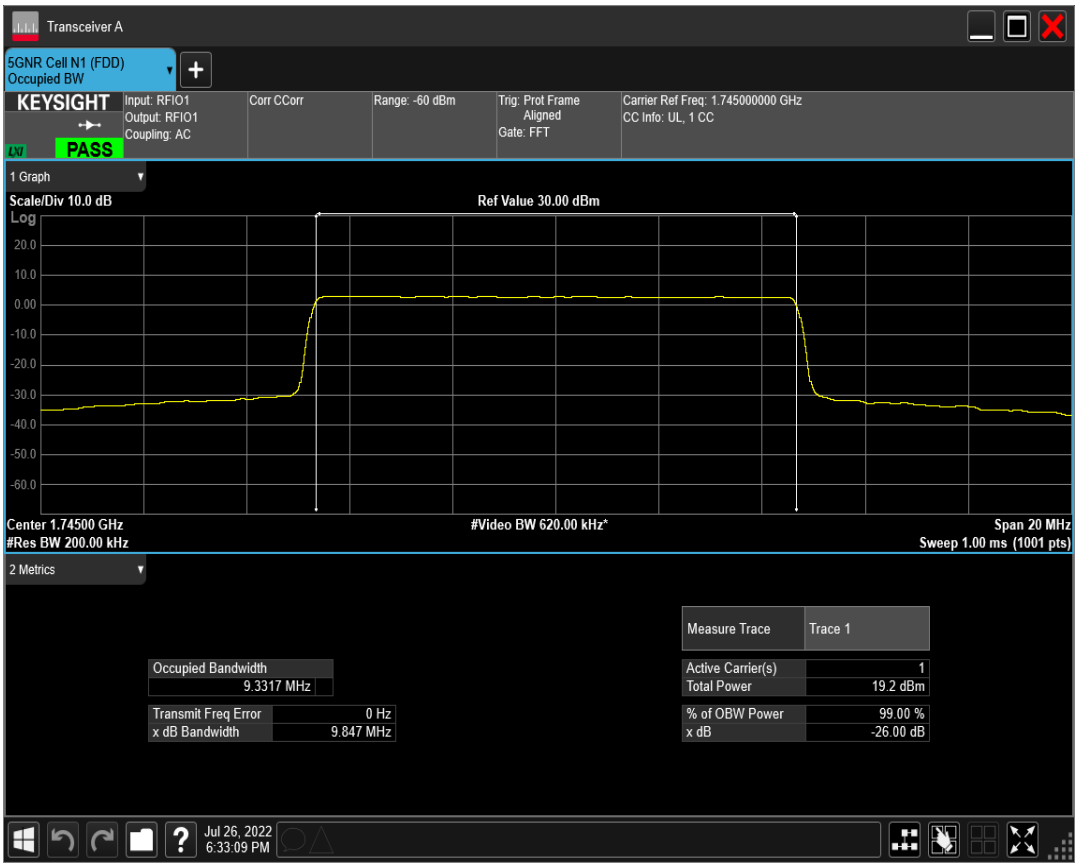
n66 SCS=15kHz DFT_QAM256 BW=10MHz Channel=349000 RB=50@0

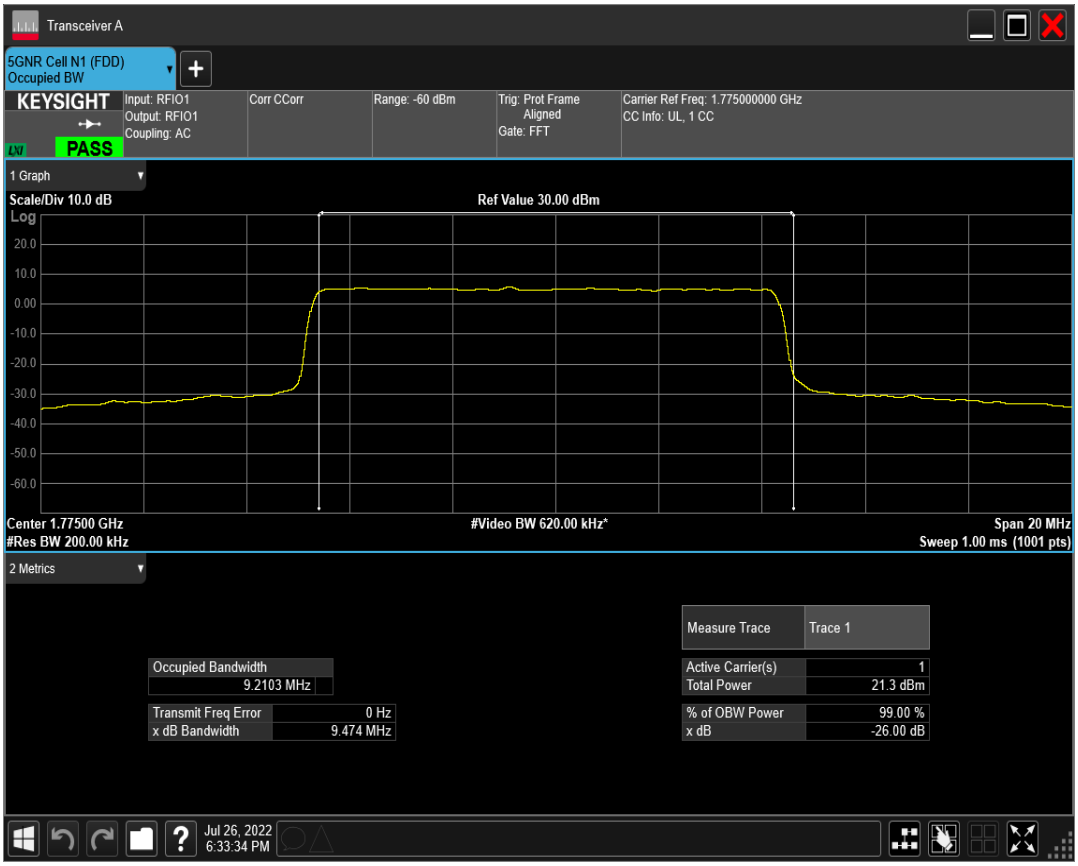


n66 SCS=15kHz CP_QPSK BW=10MHz Channel=349000 RB=52@0

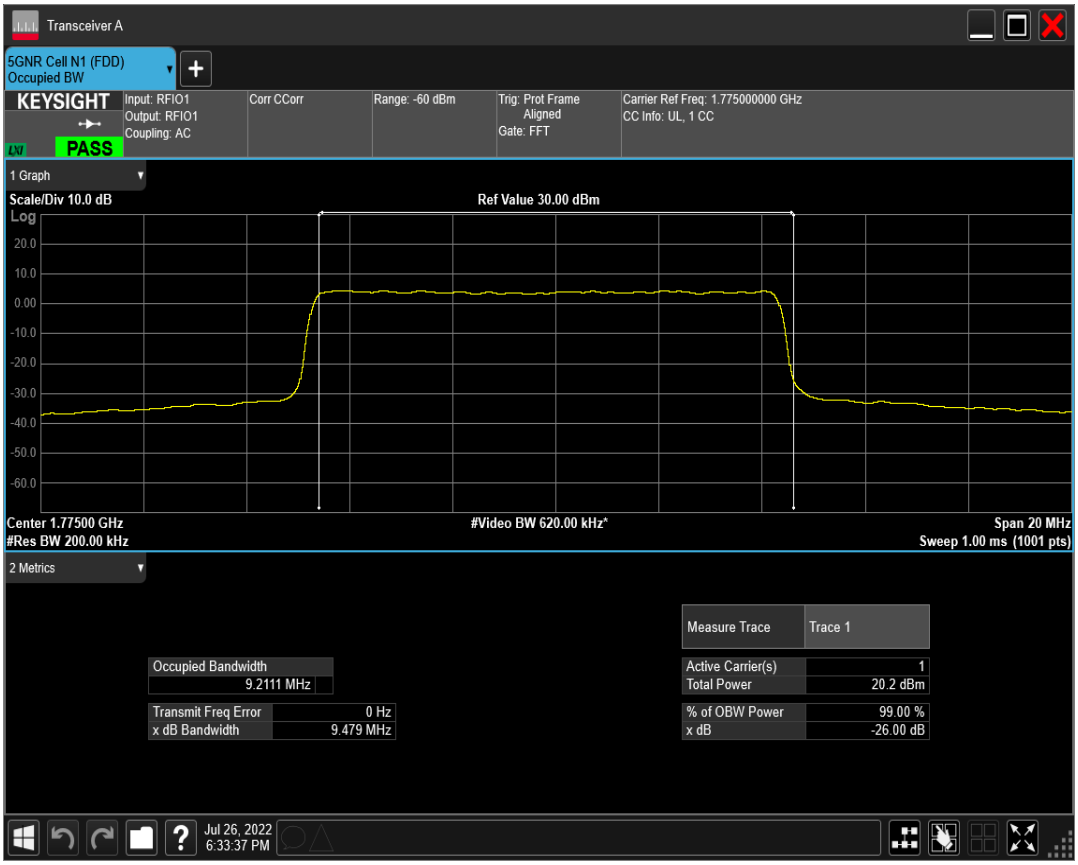


n66 SCS=15kHz DFT_BPSK BW=10MHz Channel=355000 RB=50@0

n66 SCS=15kHz DFT_QPSK BW=10MHz Channel=355000 RB=50@0



n66 SCS=15kHz DFT_QAM16 BW=10MHz Channel=355000 RB=50@0



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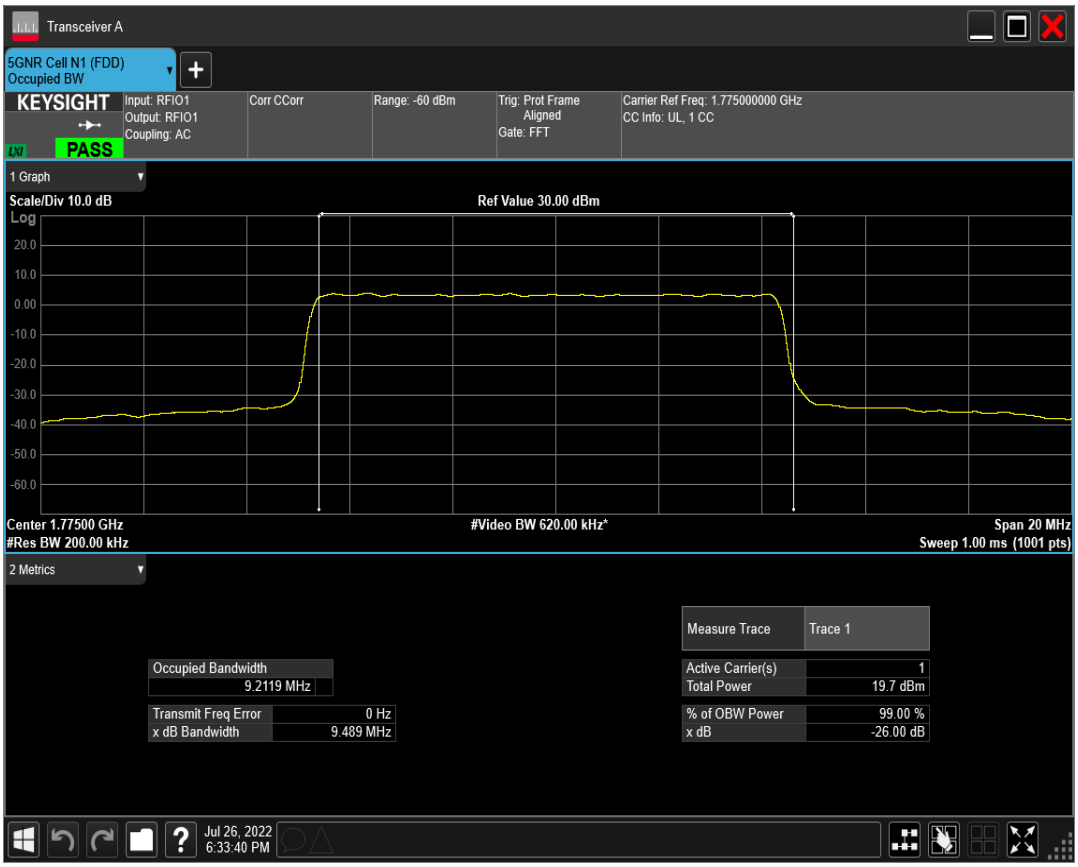

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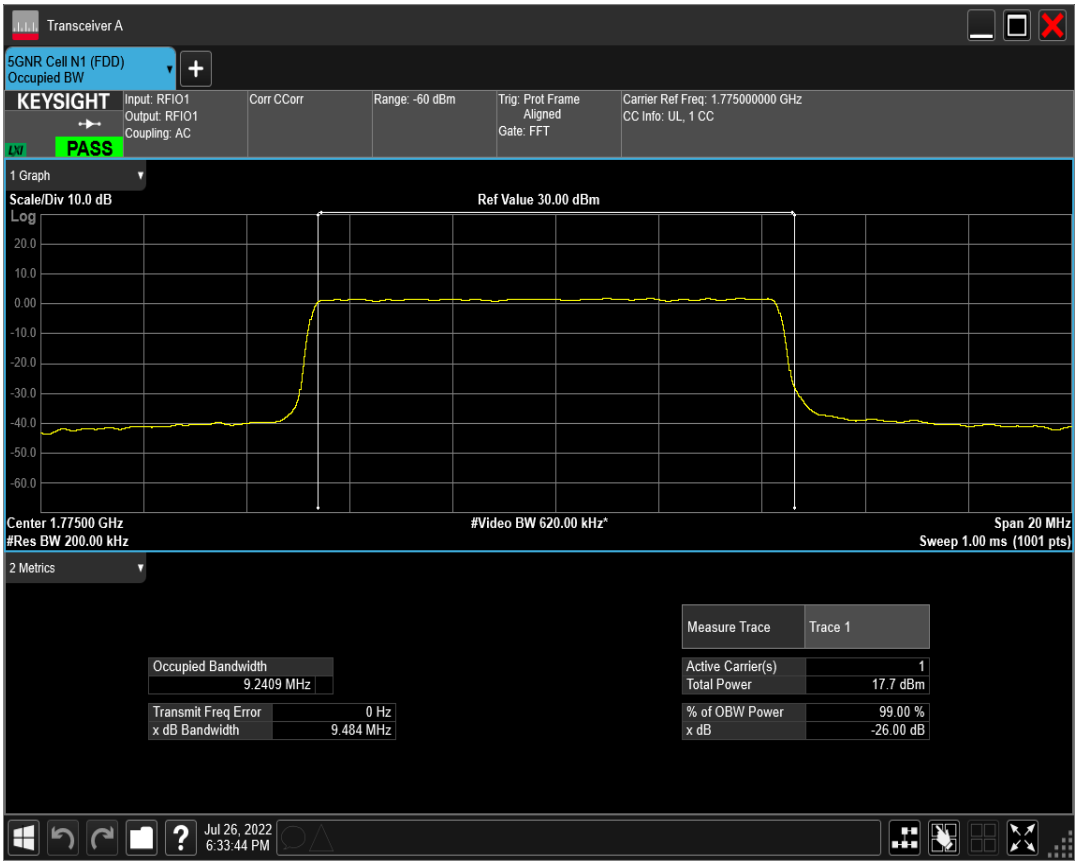
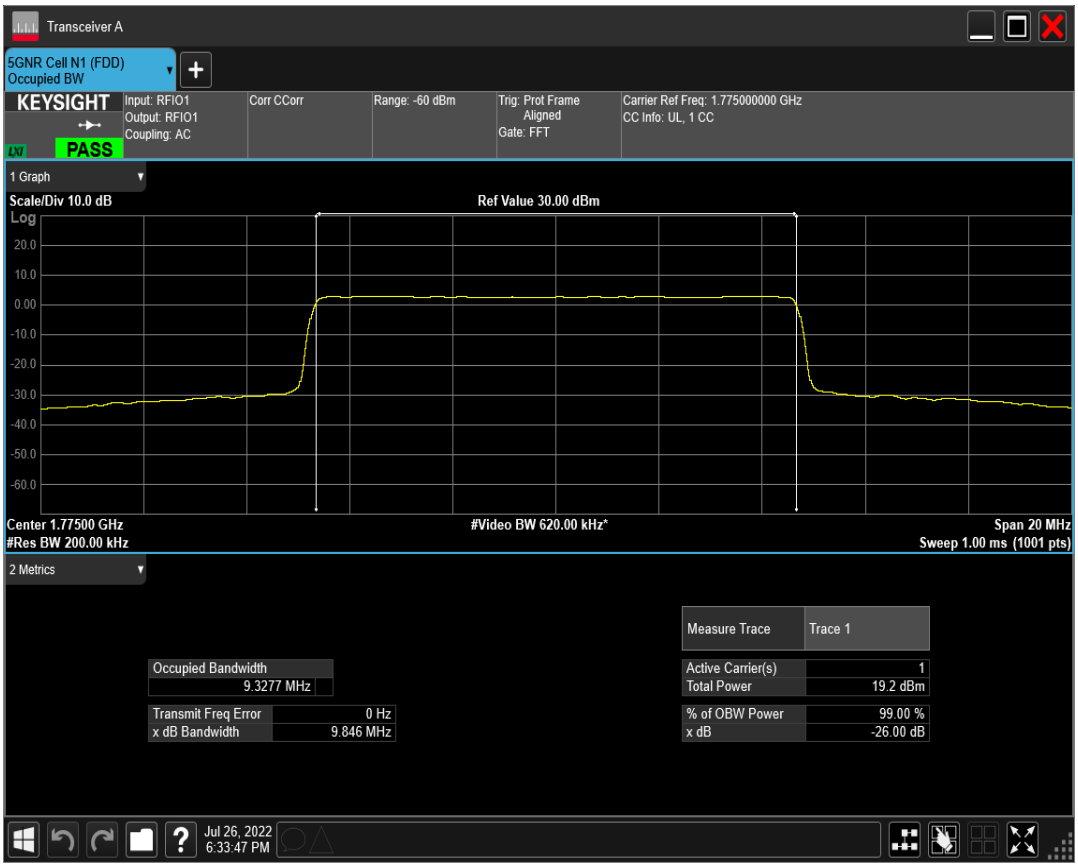


n66 SCS=15kHz CP_QPSK BW=10MHz Channel=355000 RB=52@0



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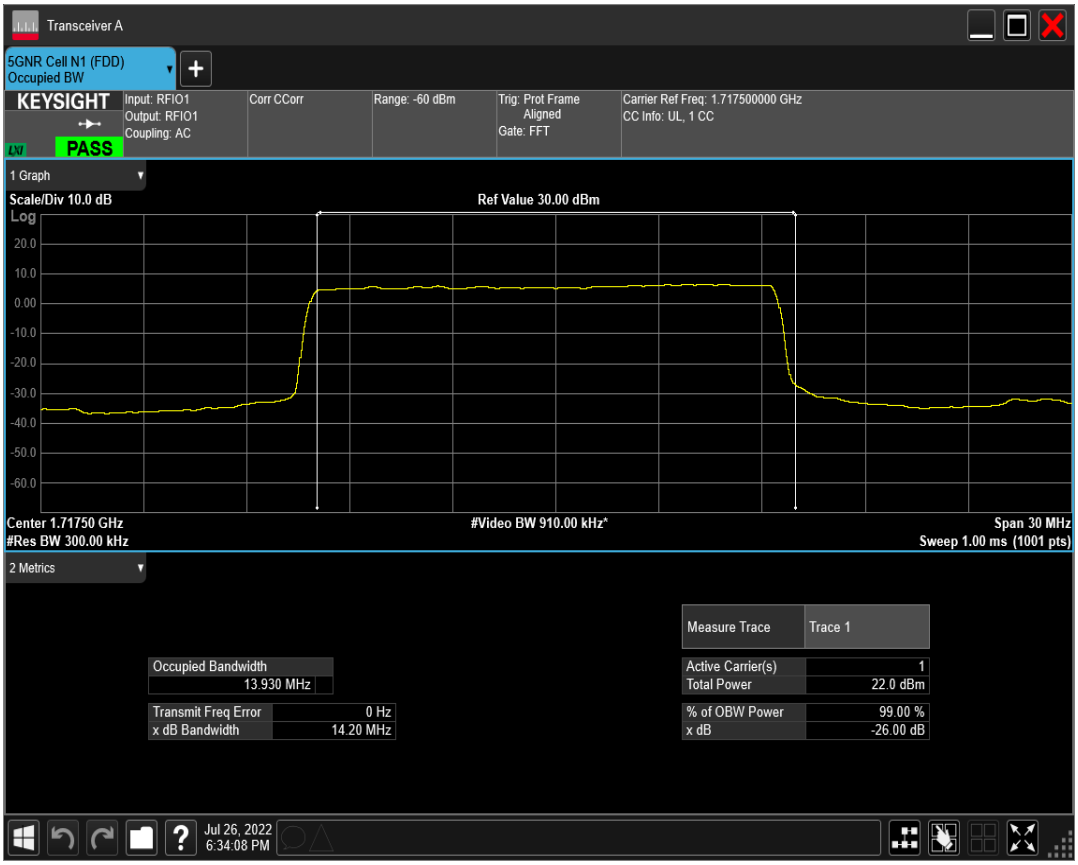
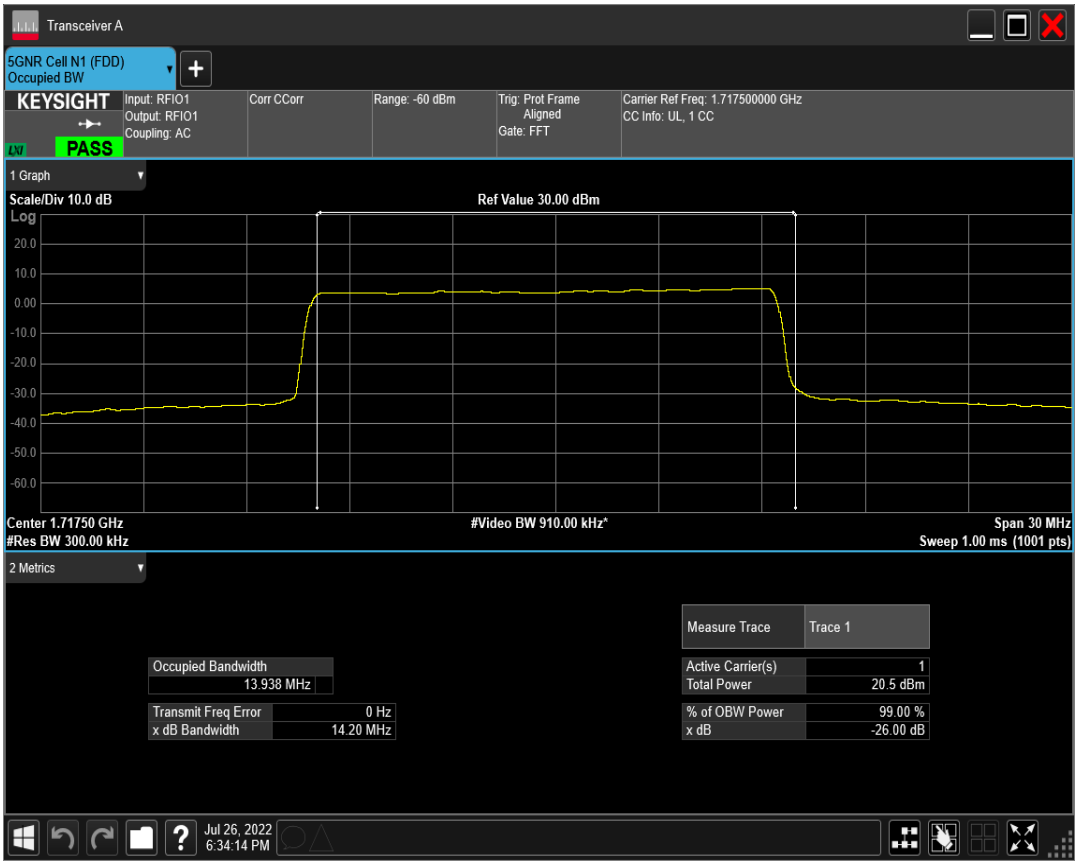


n66 SCS=15kHz DFT_QPSK BW=15MHz Channel=343500 RB=75@0

n66 SCS=15kHz DFT_QAM16 BW=15MHz Channel=343500 RB=75@0



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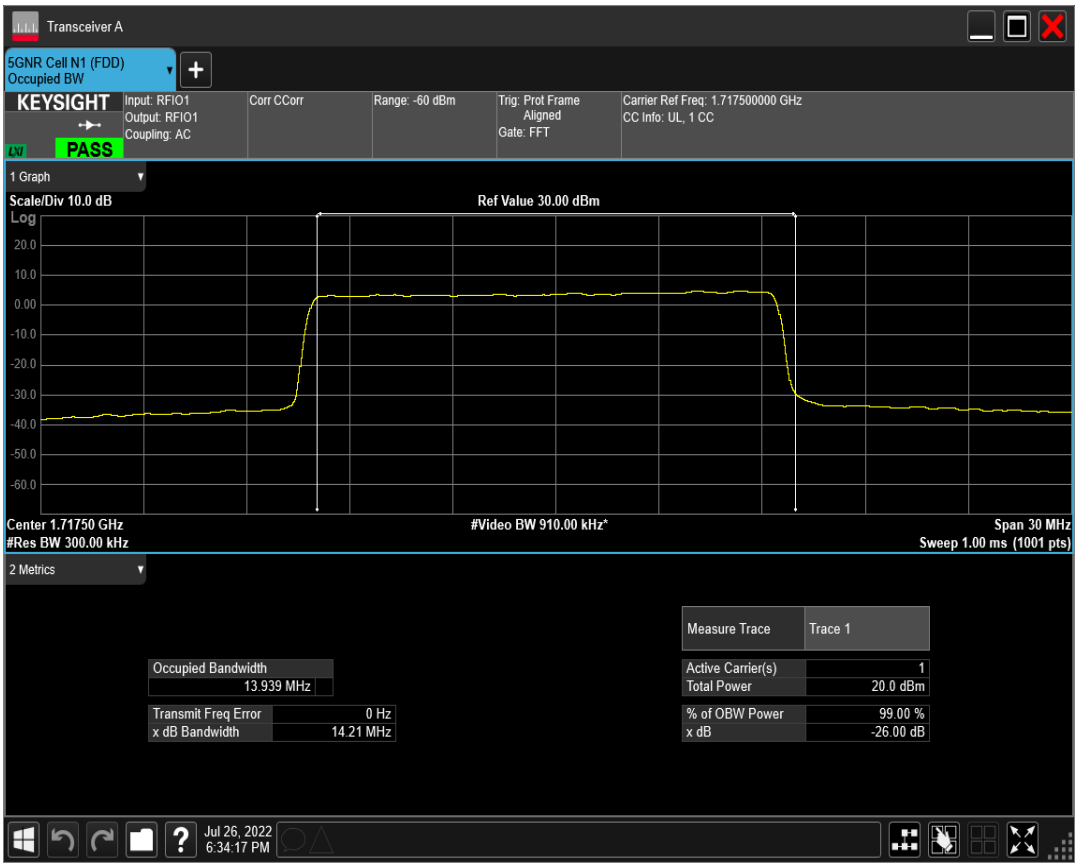
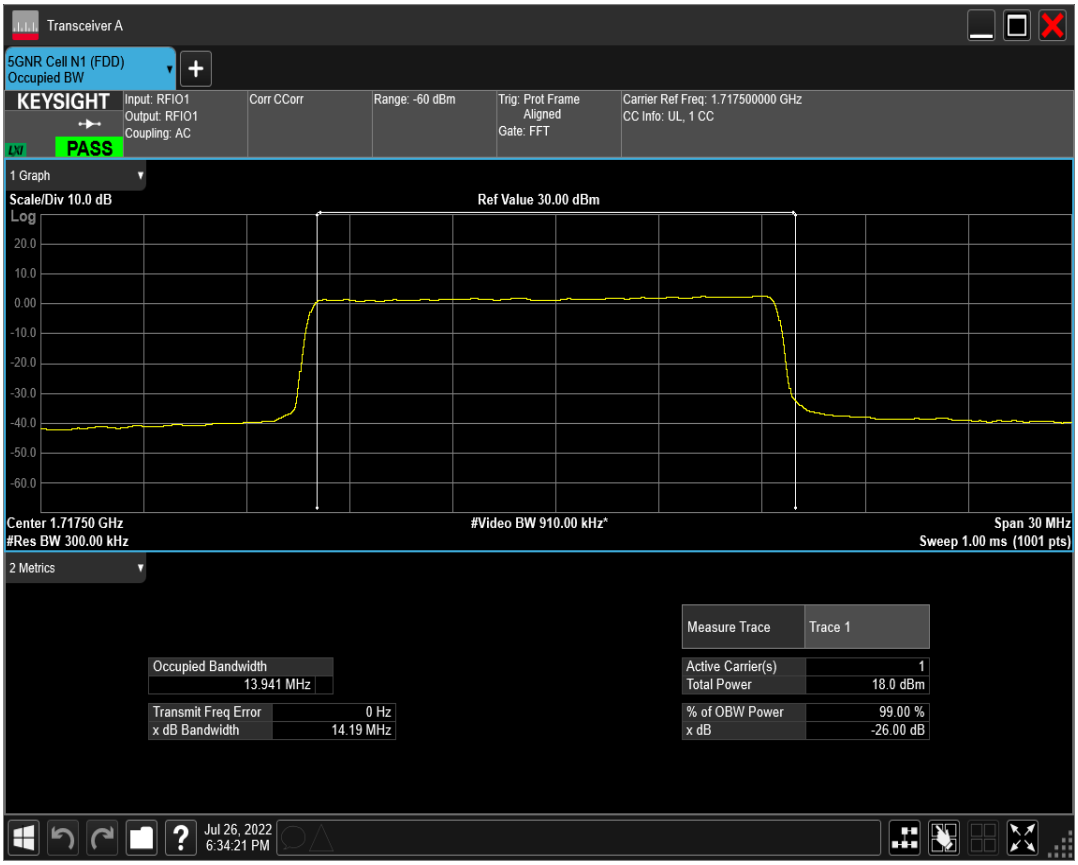


n66 SCS=15kHz DFT_QAM256 BW=15MHz Channel=343500 RB=75@0



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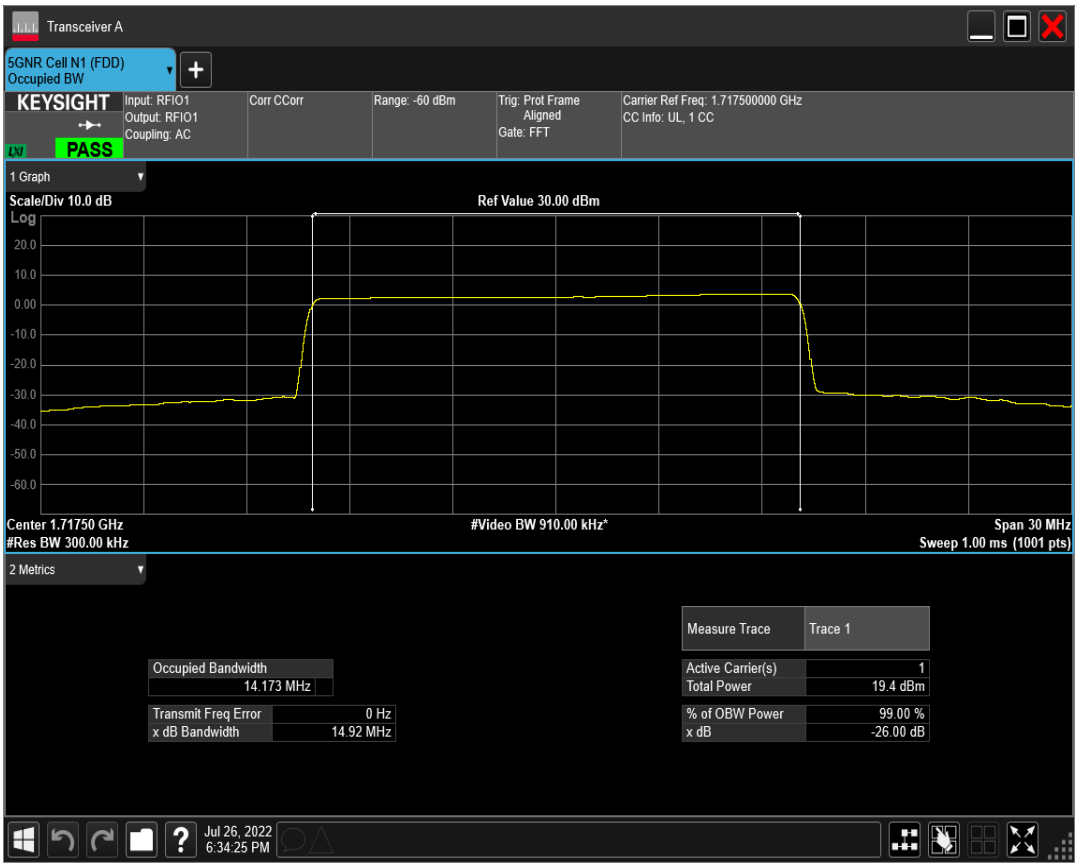

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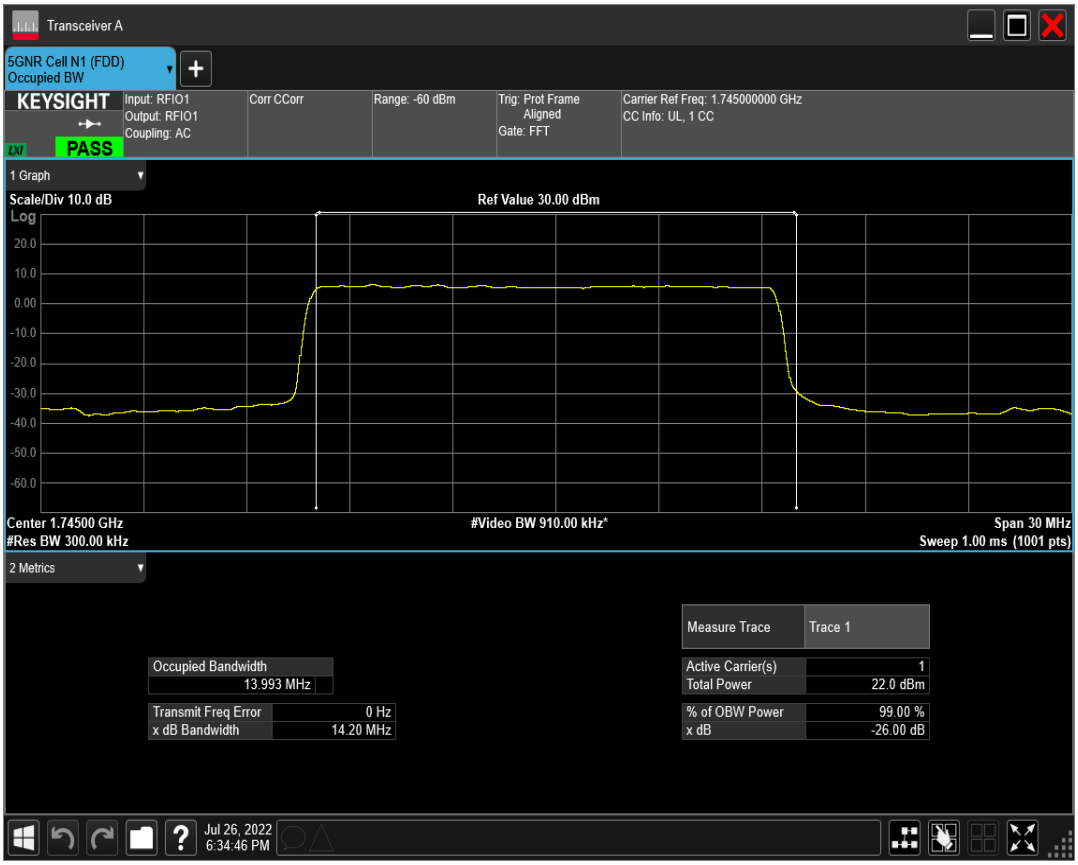
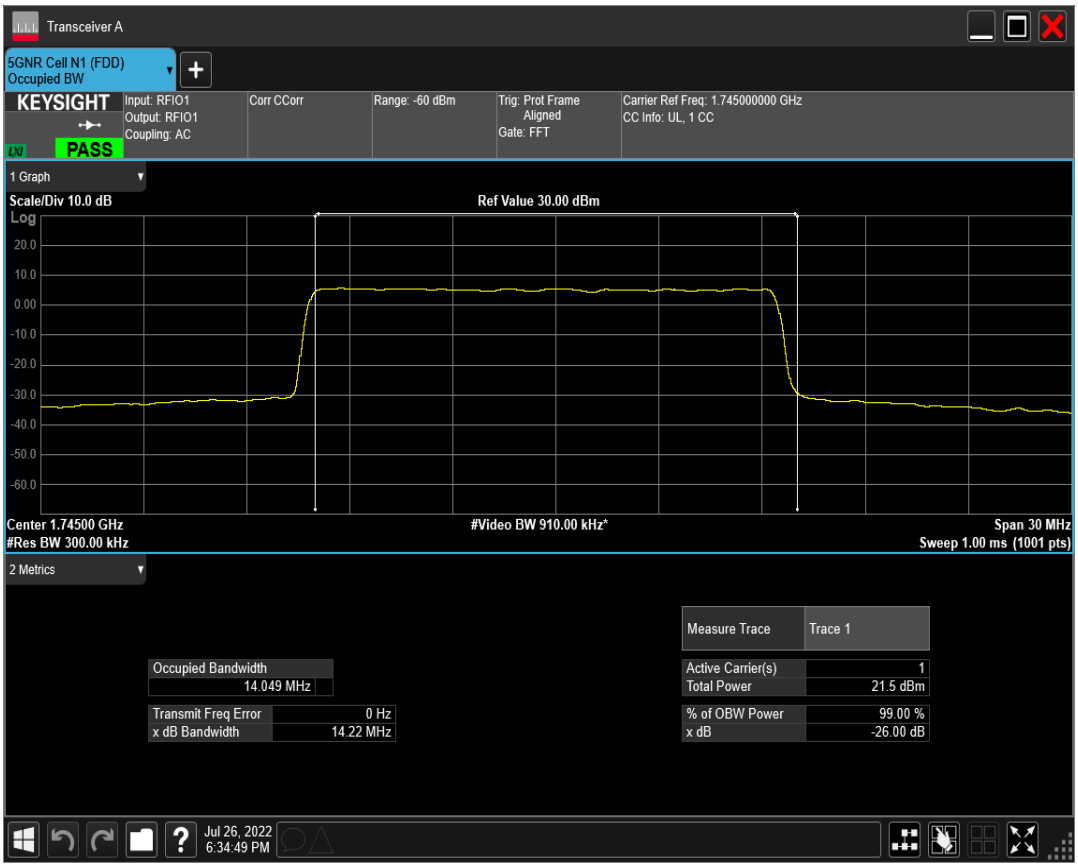
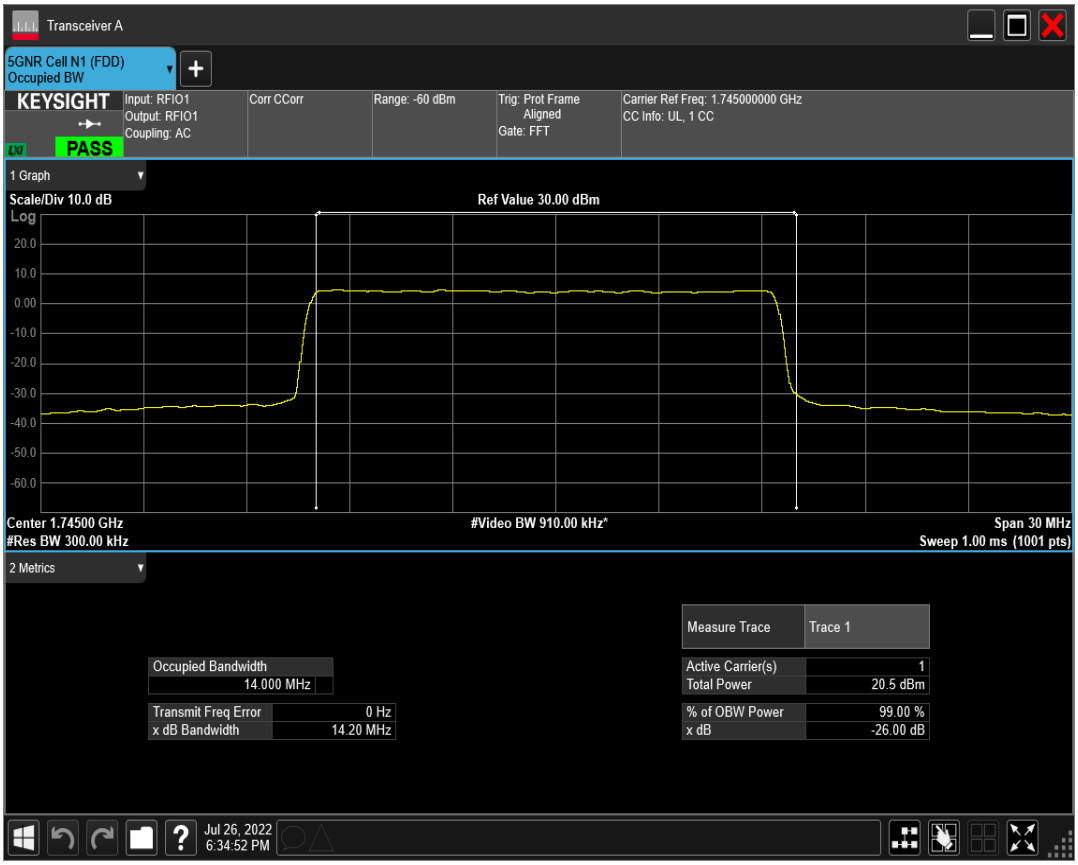


n66 SCS=15kHz DFT_QPSK BW=15MHz Channel=349000 RB=75@0



n66 SCS=15kHz DFT_QAM16 BW=15MHz Channel=349000 RB=75@0



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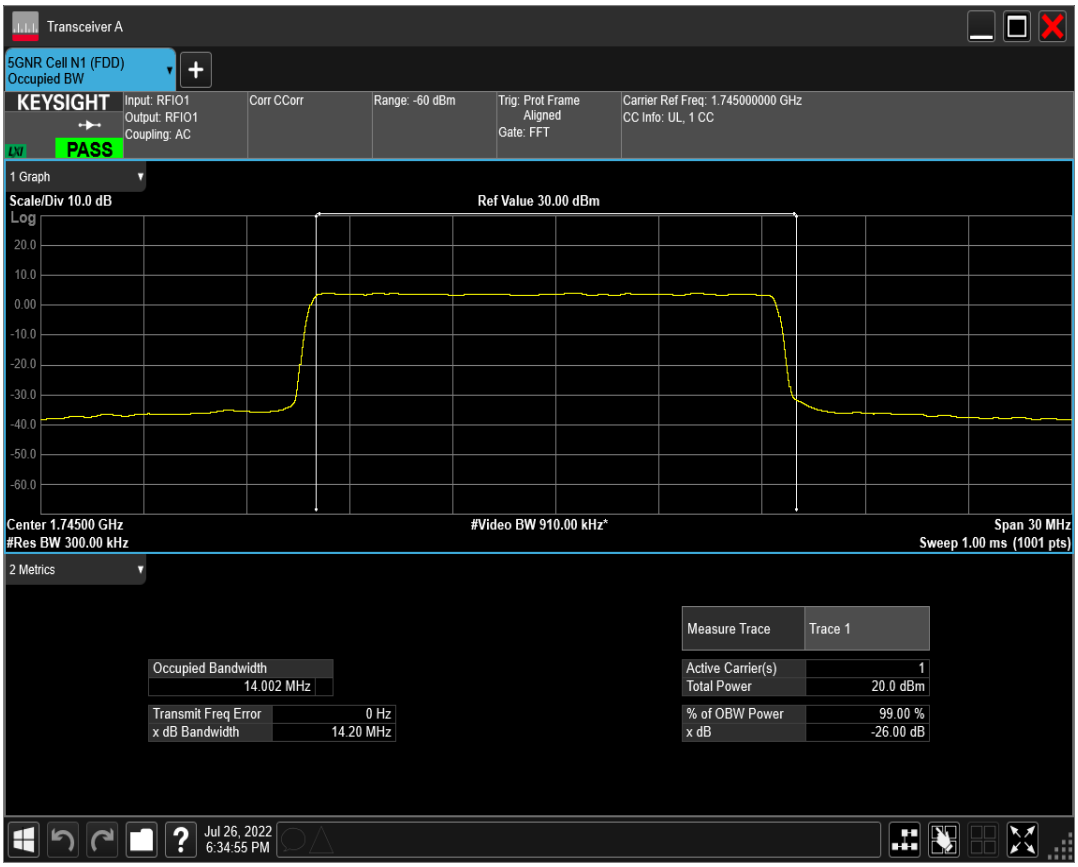

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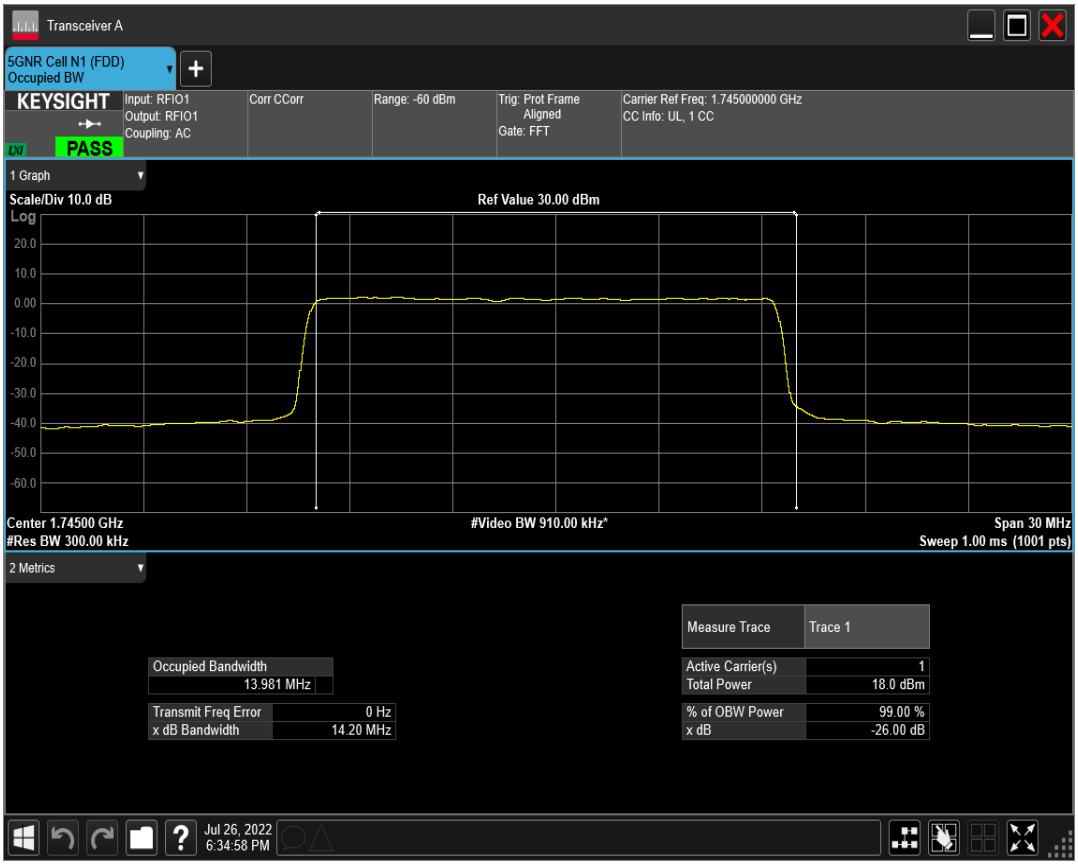
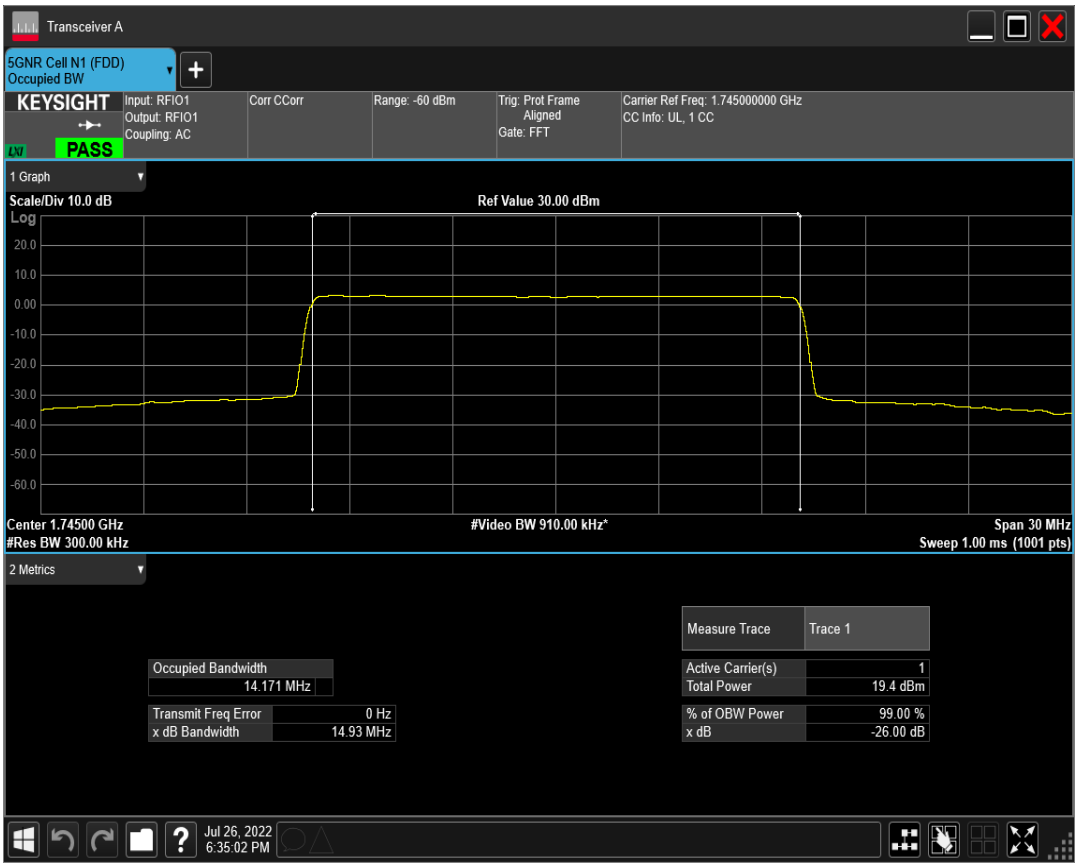
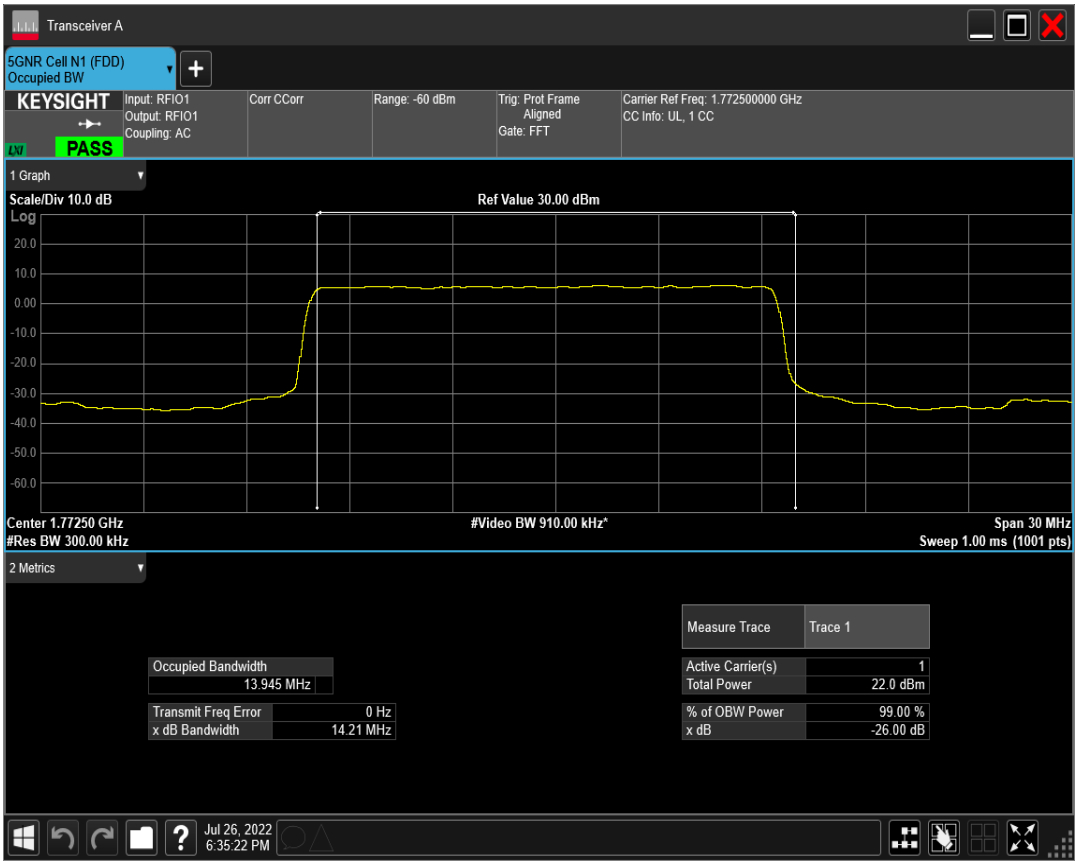


n66 SCS=15kHz CP_QPSK BW=15MHz Channel=349000 RB=79@0



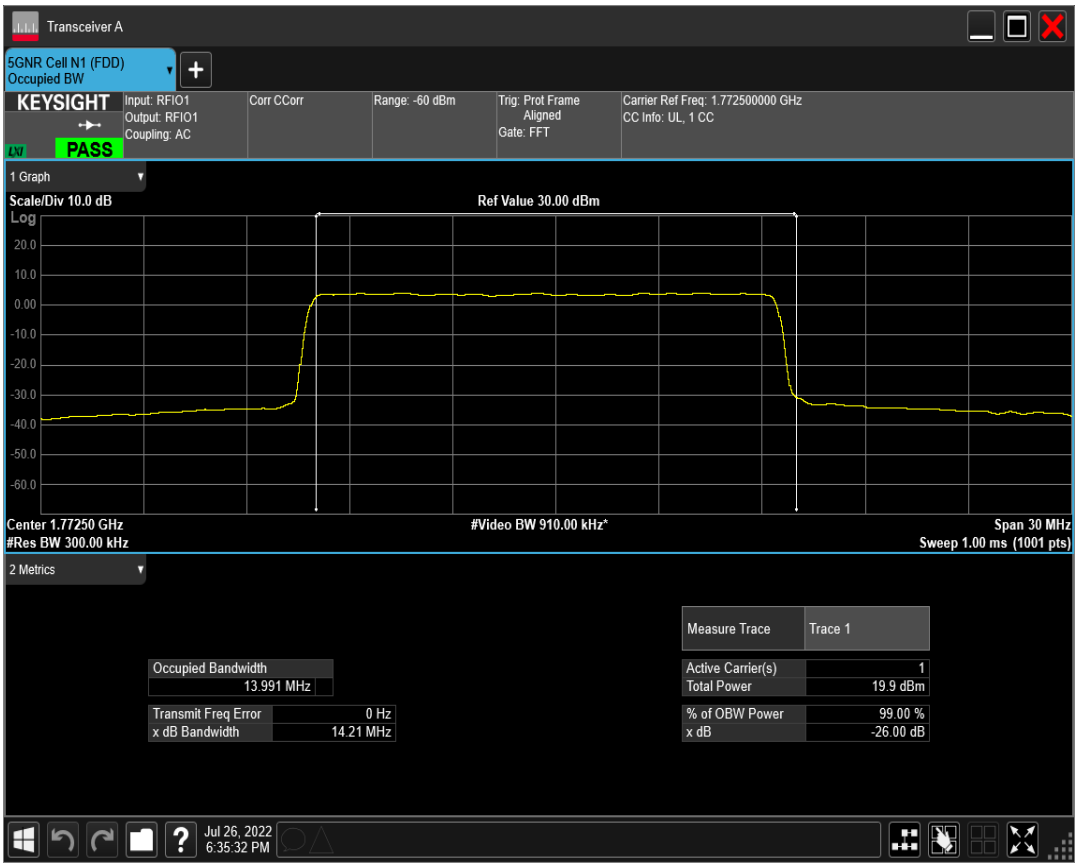
n66 SCS=15kHz DFT_BPSK BW=15MHz Channel=354500 RB=75@0



n66 SCS=15kHz DFT_QPSK BW=15MHz Channel=354500 RB=75@0

n66 SCS=15kHz DFT_QAM16 BW=15MHz Channel=354500 RB=75@0

n66 SCS=15kHz DFT_QAM64 BW=15MHz Channel=354500 RB=75@0



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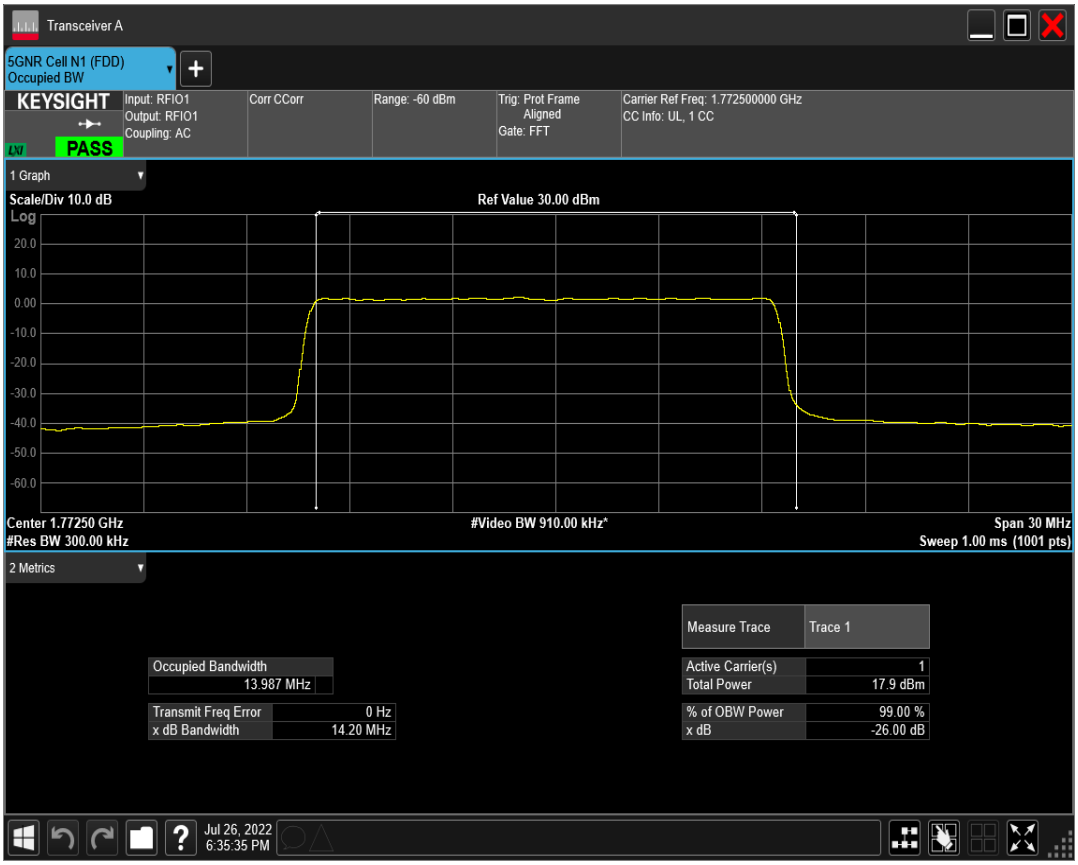
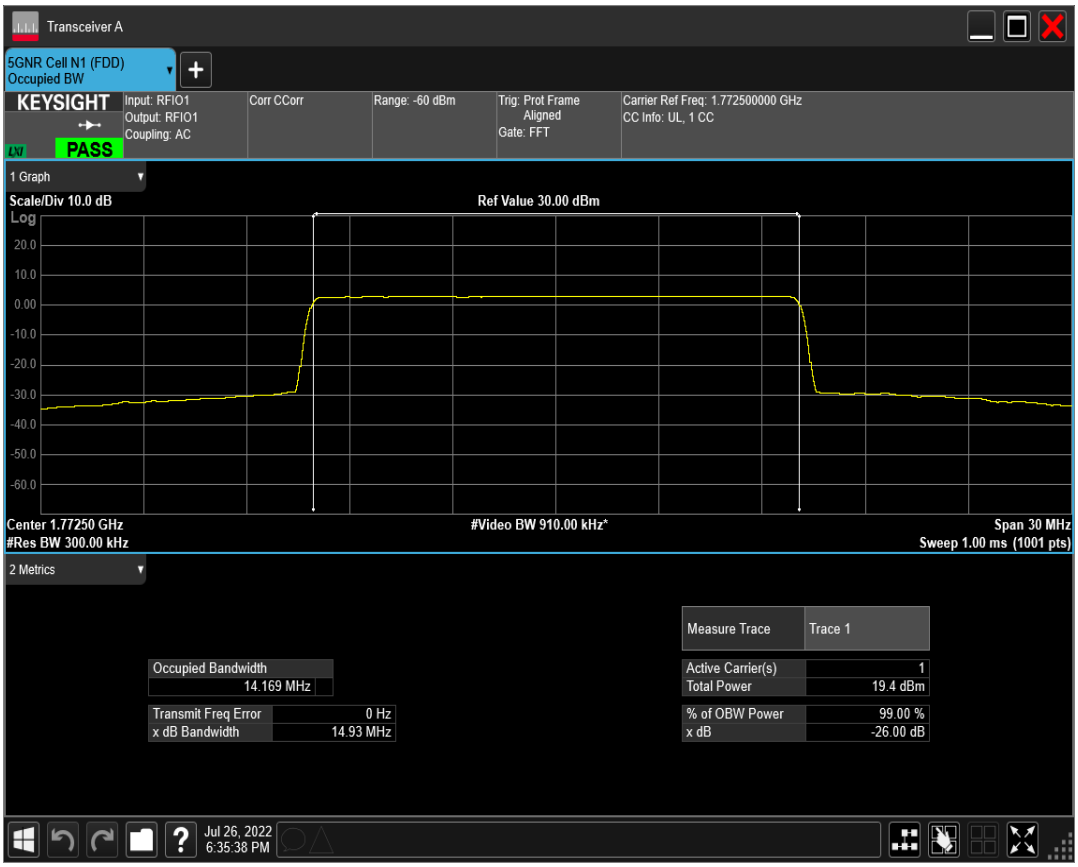
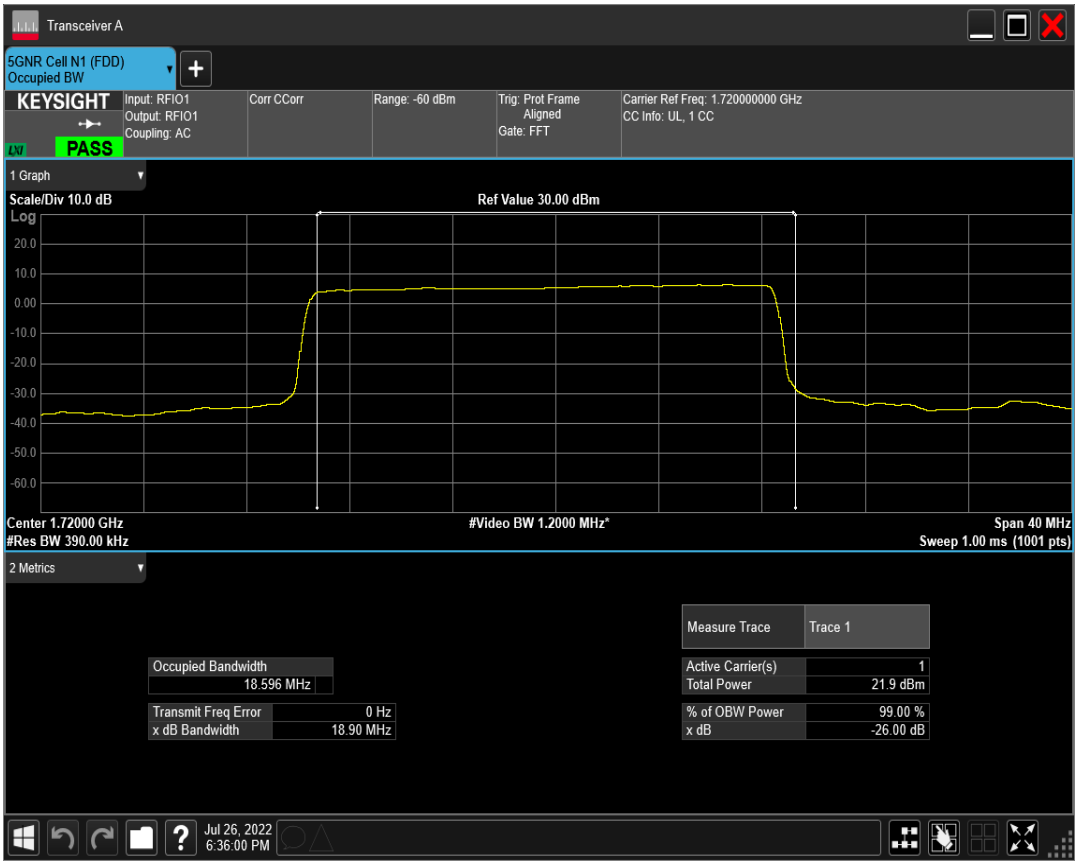


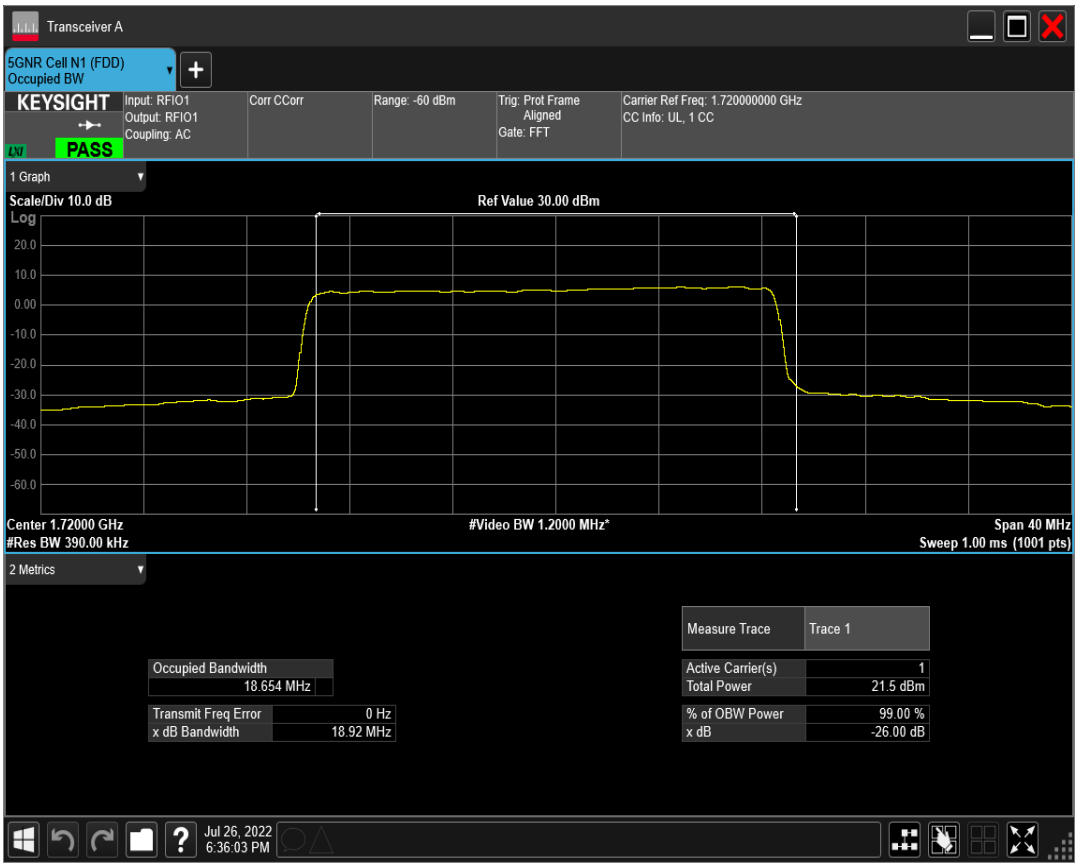
n66 SCS=15kHz CP_QPSK BW=15MHz Channel=354500 RB=79@0



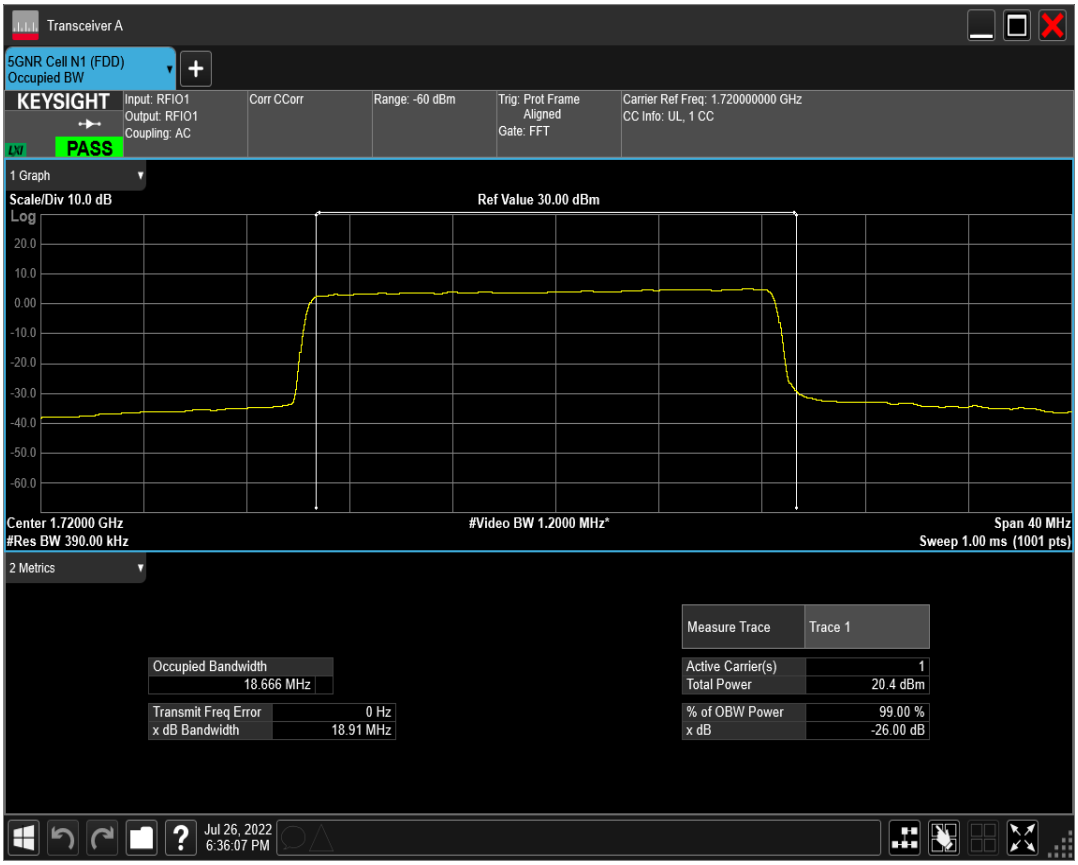
n66 SCS=15kHz DFT_BPSK BW=20MHz Channel=344000 RB=100@0



n66 SCS=15kHz DFT_QPSK BW=20MHz Channel=344000 RB=100@0



n66 SCS=15kHz DFT_QAM16 BW=20MHz Channel=344000 RB=100@0



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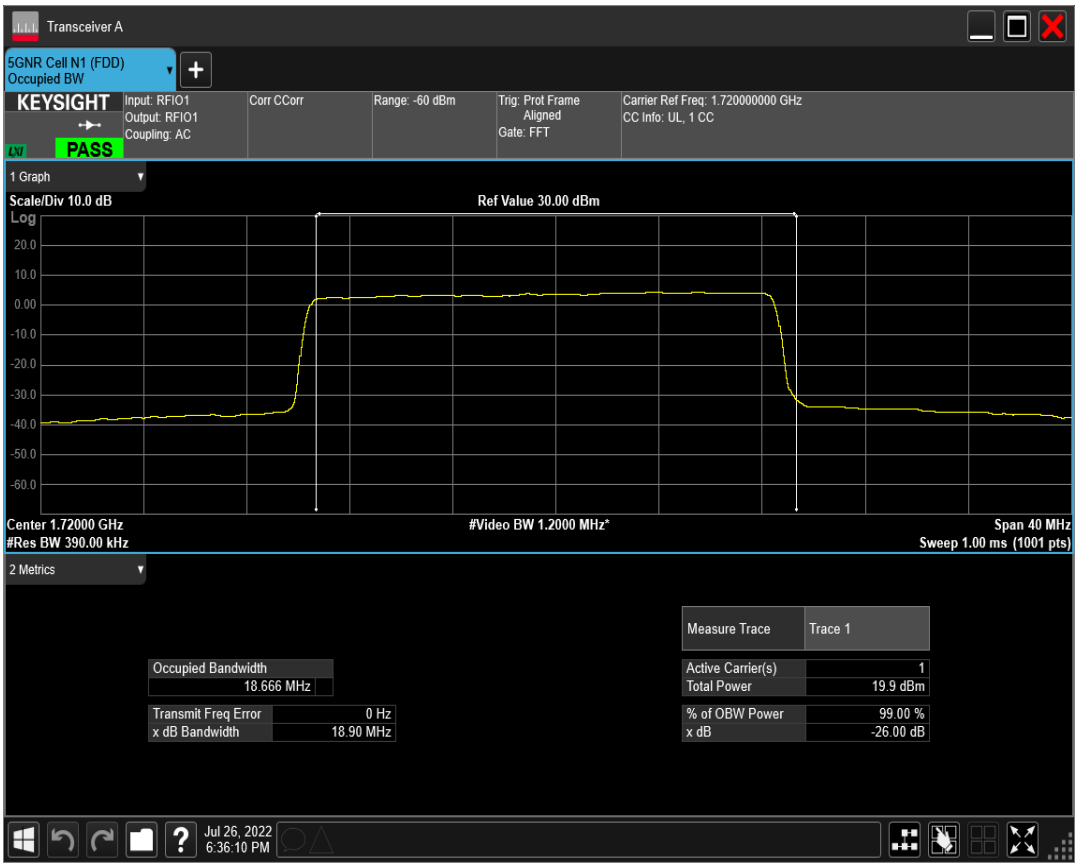

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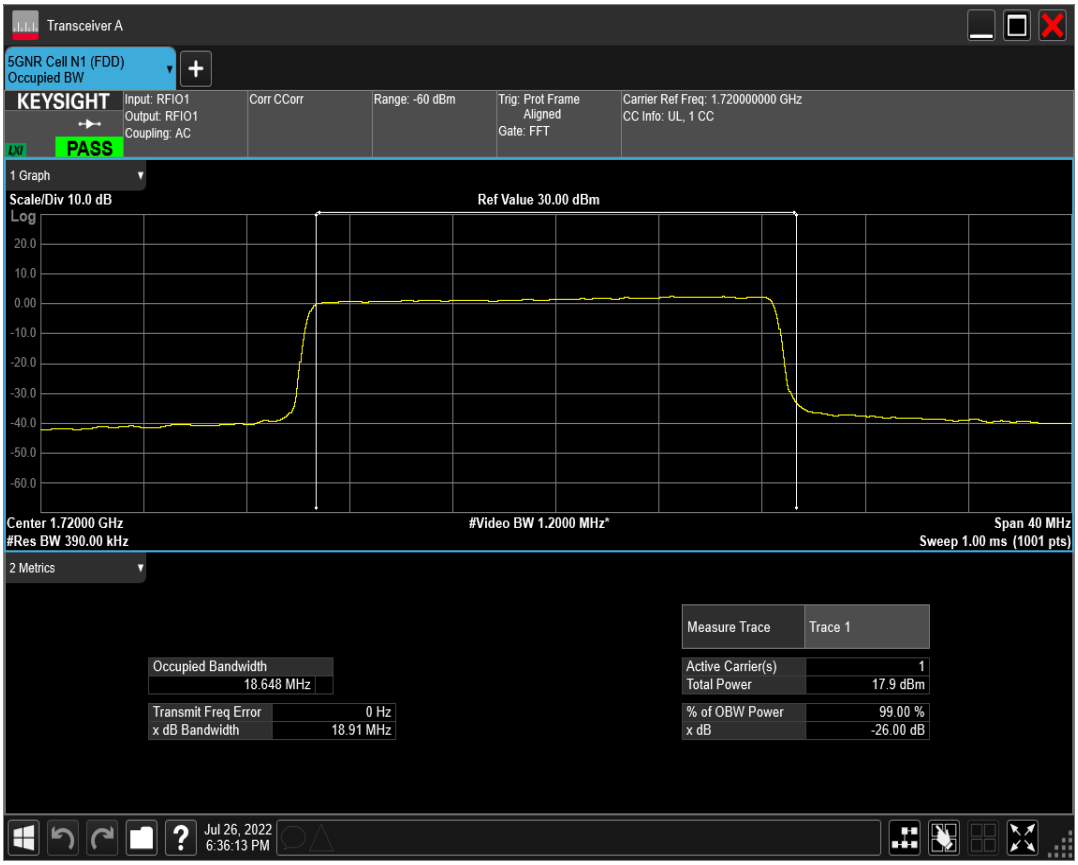
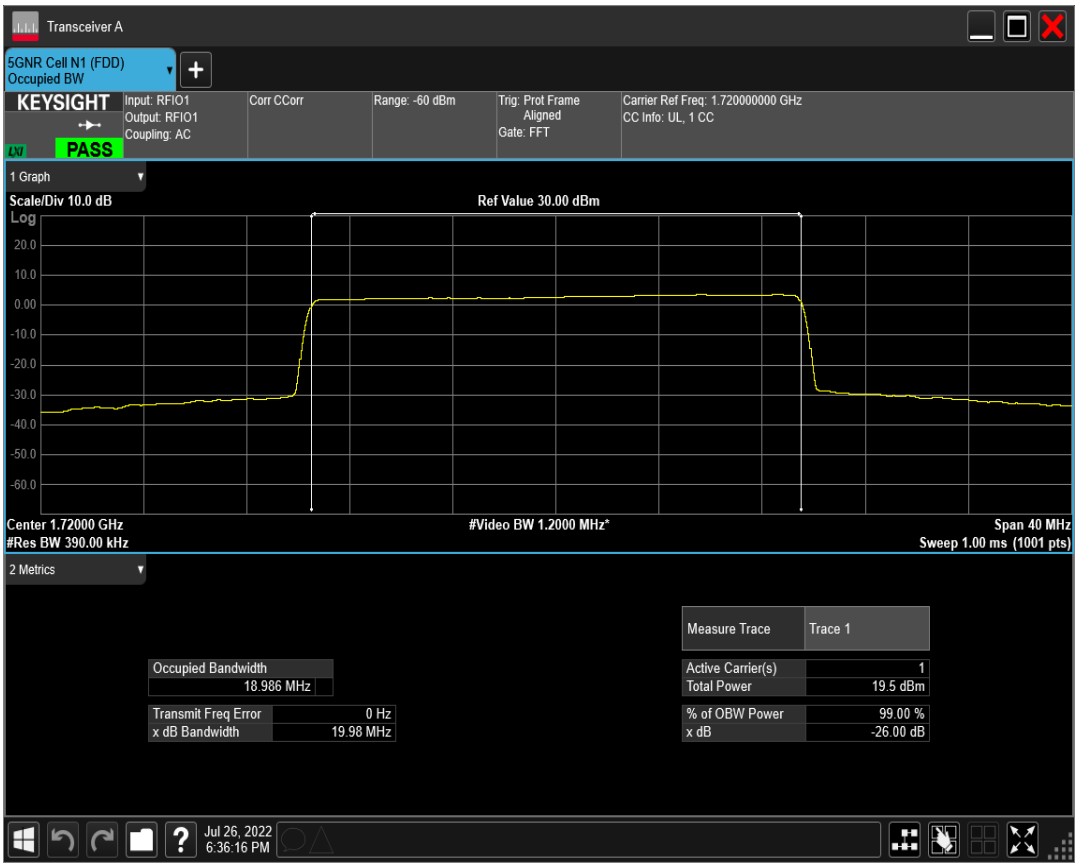
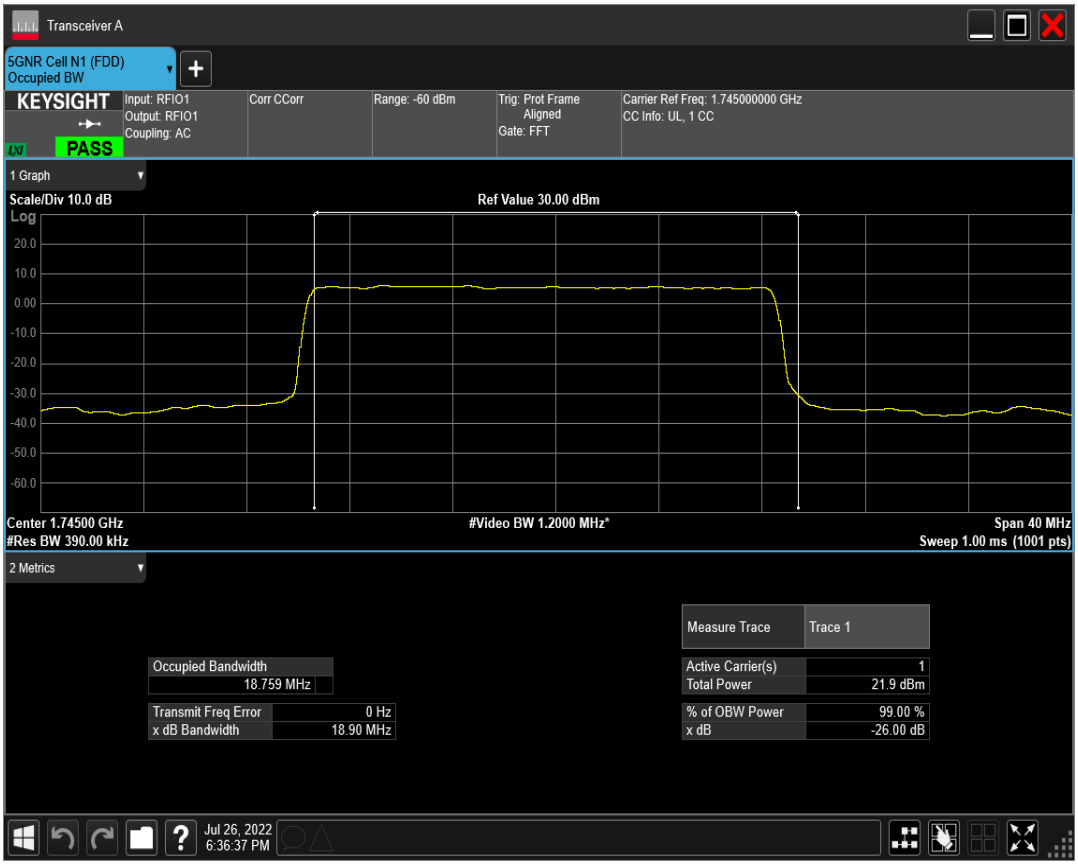


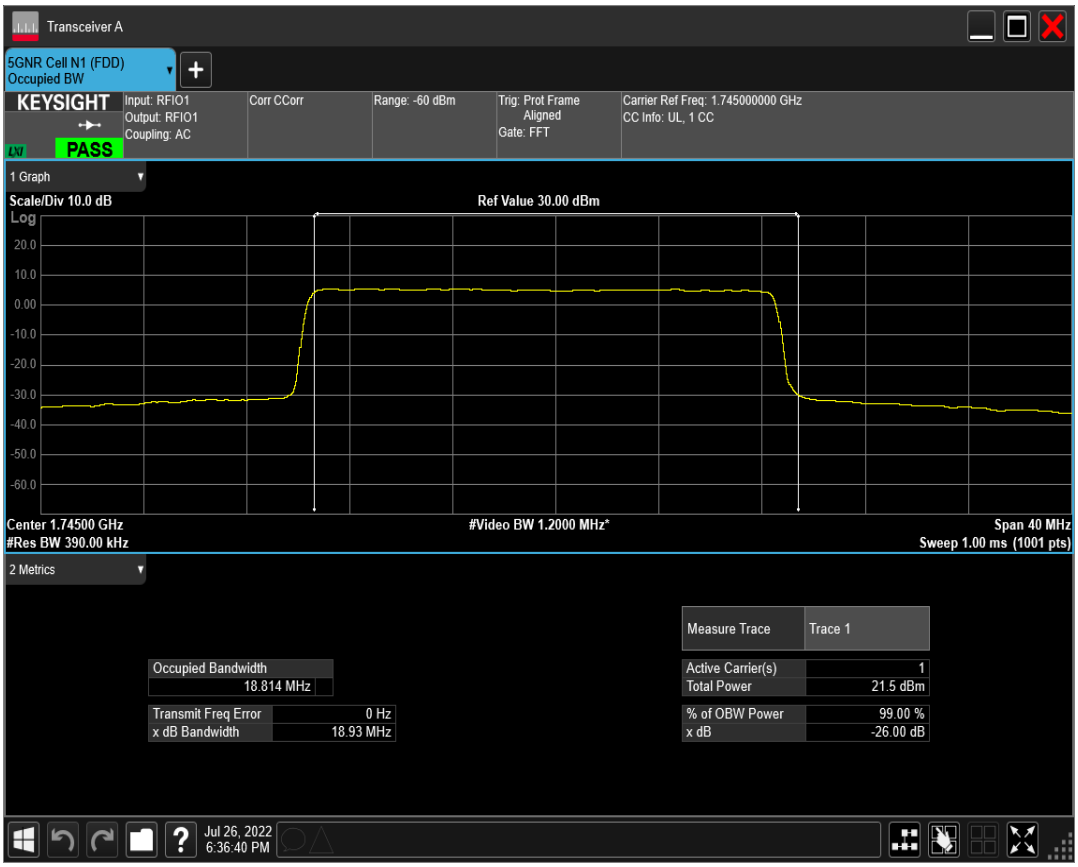
n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=106@0



n66 SCS=15kHz DFT_BPSK BW=20MHz Channel=349000 RB=100@0



n66 SCS=15kHz DFT_QPSK BW=20MHz Channel=349000 RB=100@0



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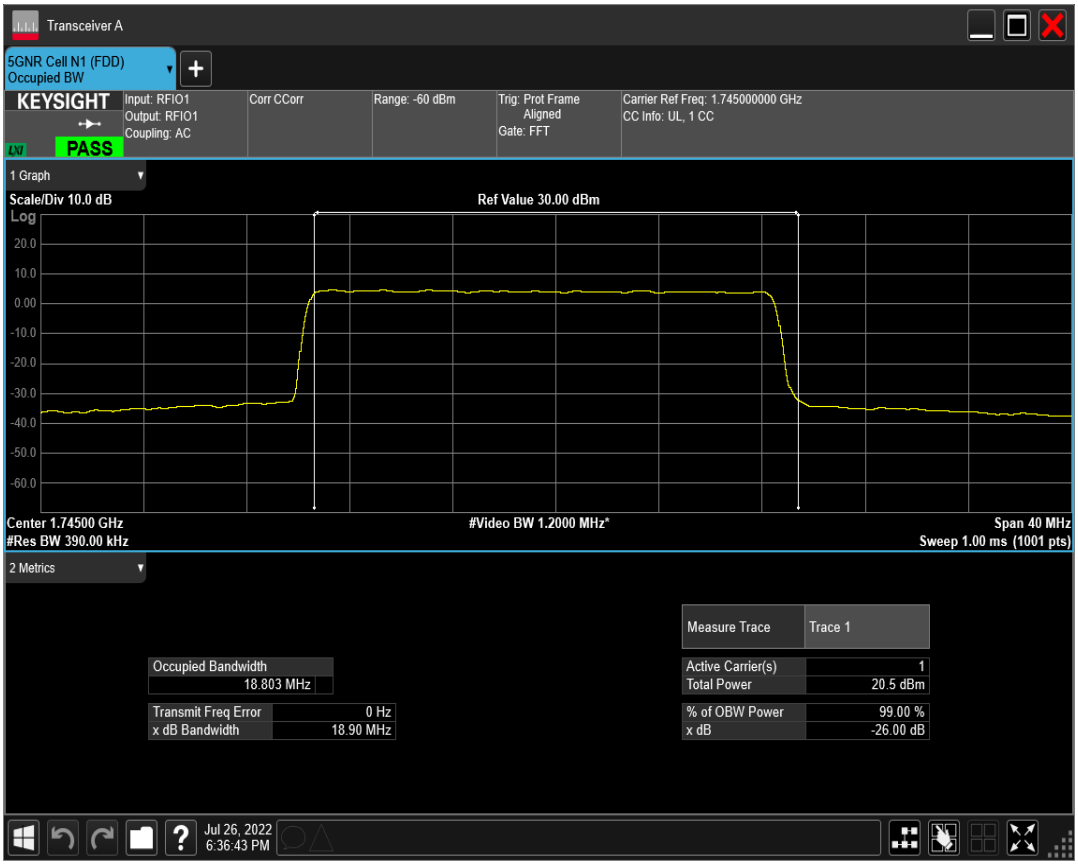

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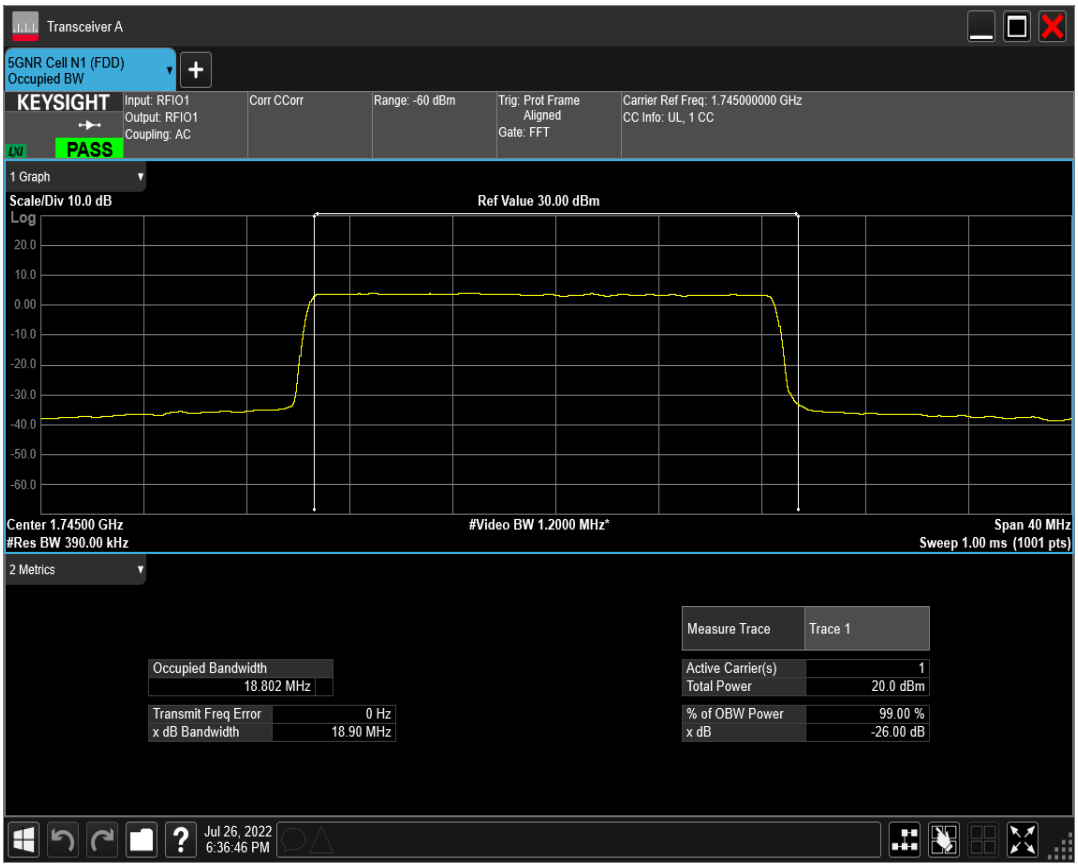

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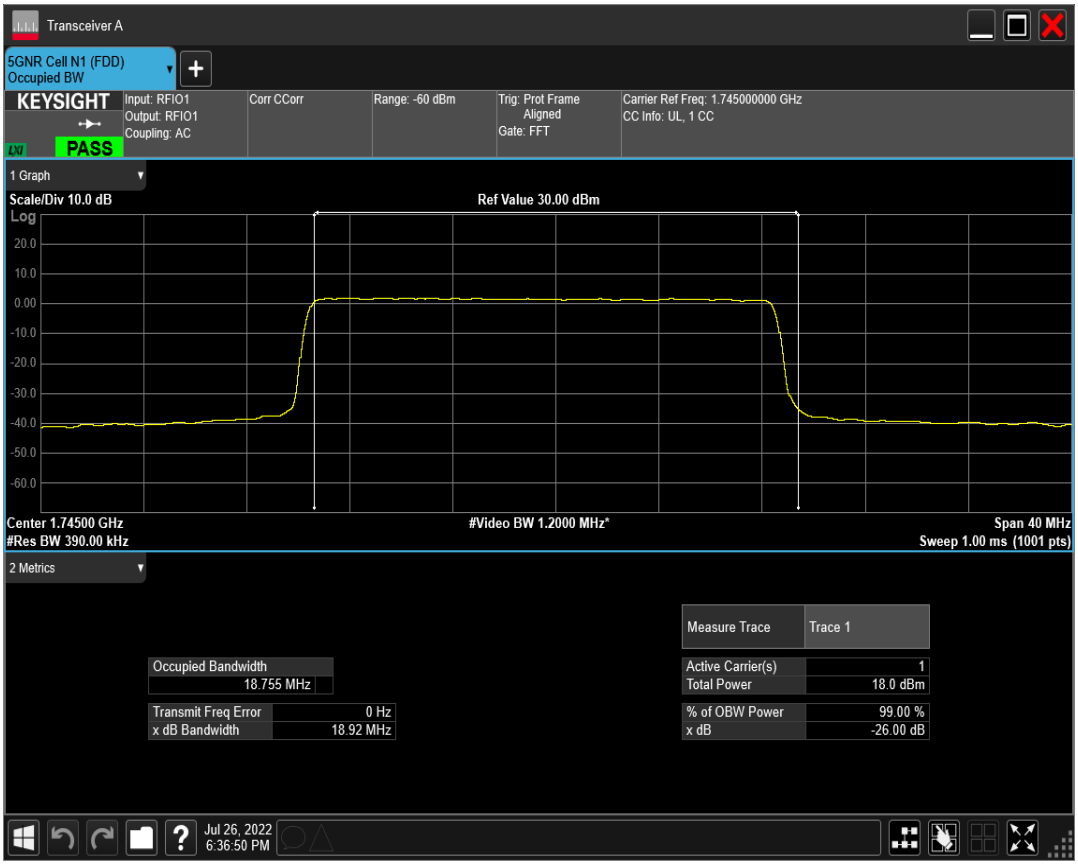
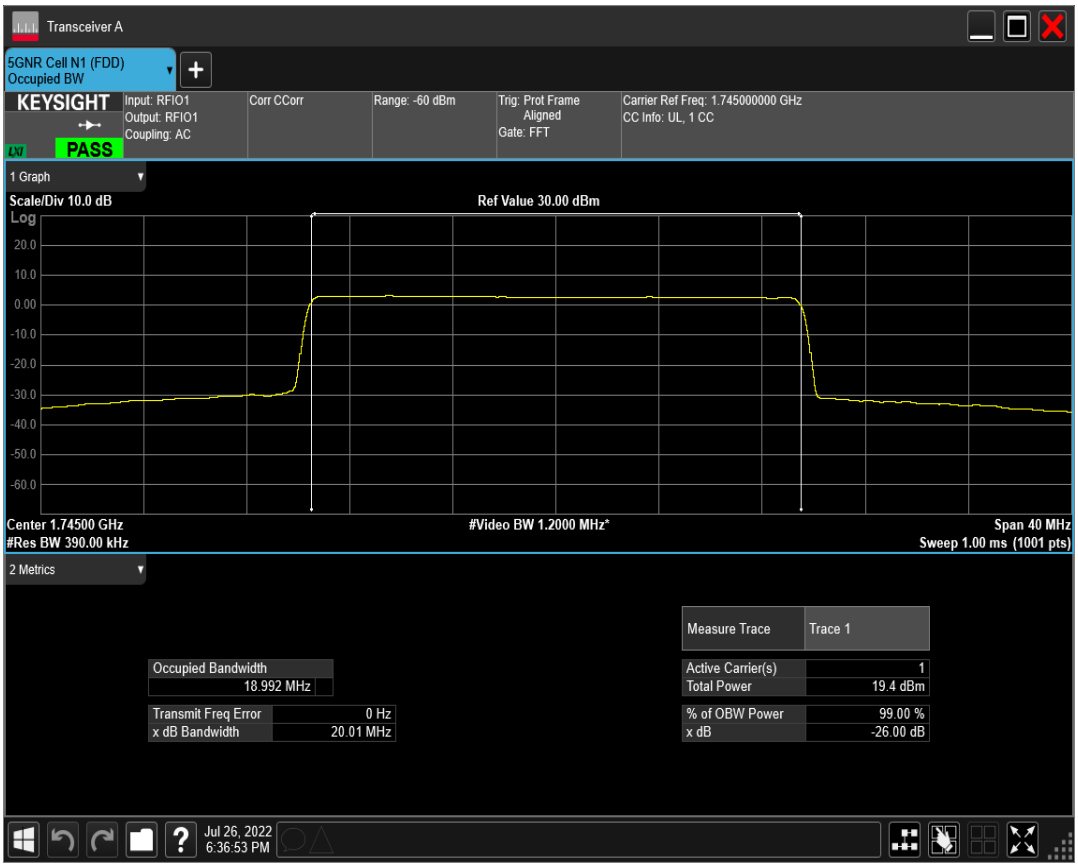
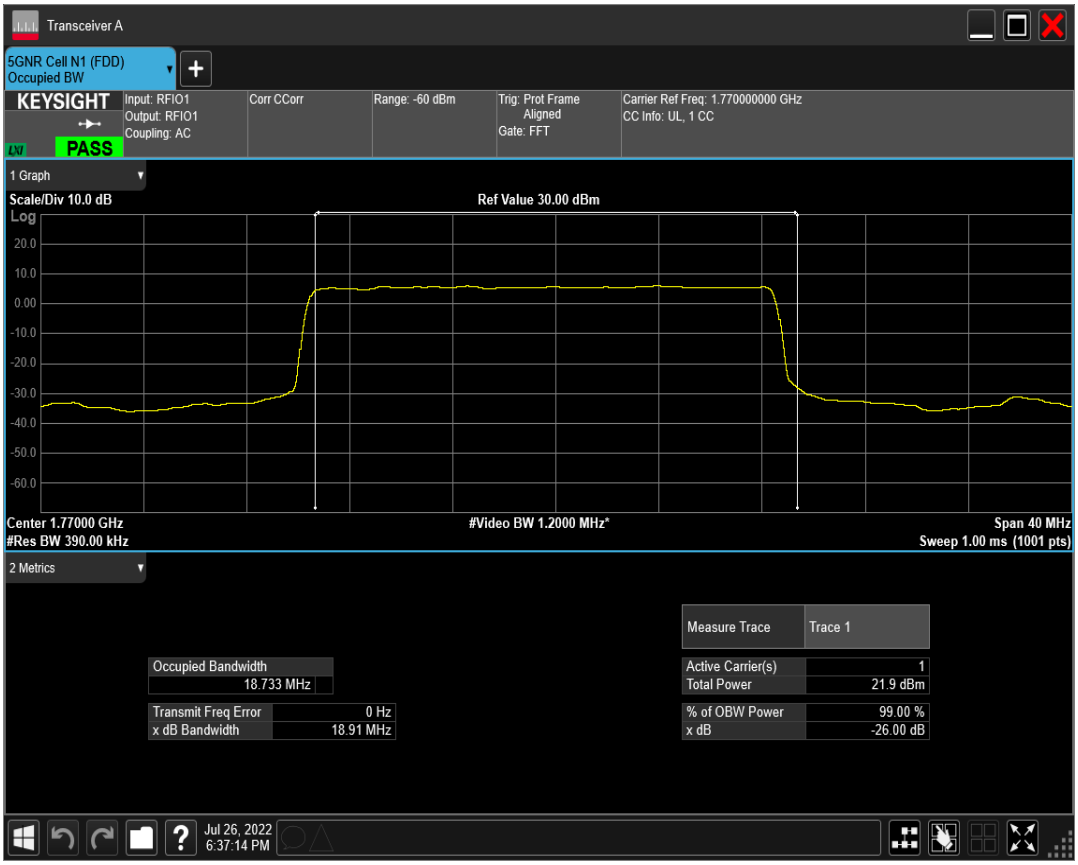


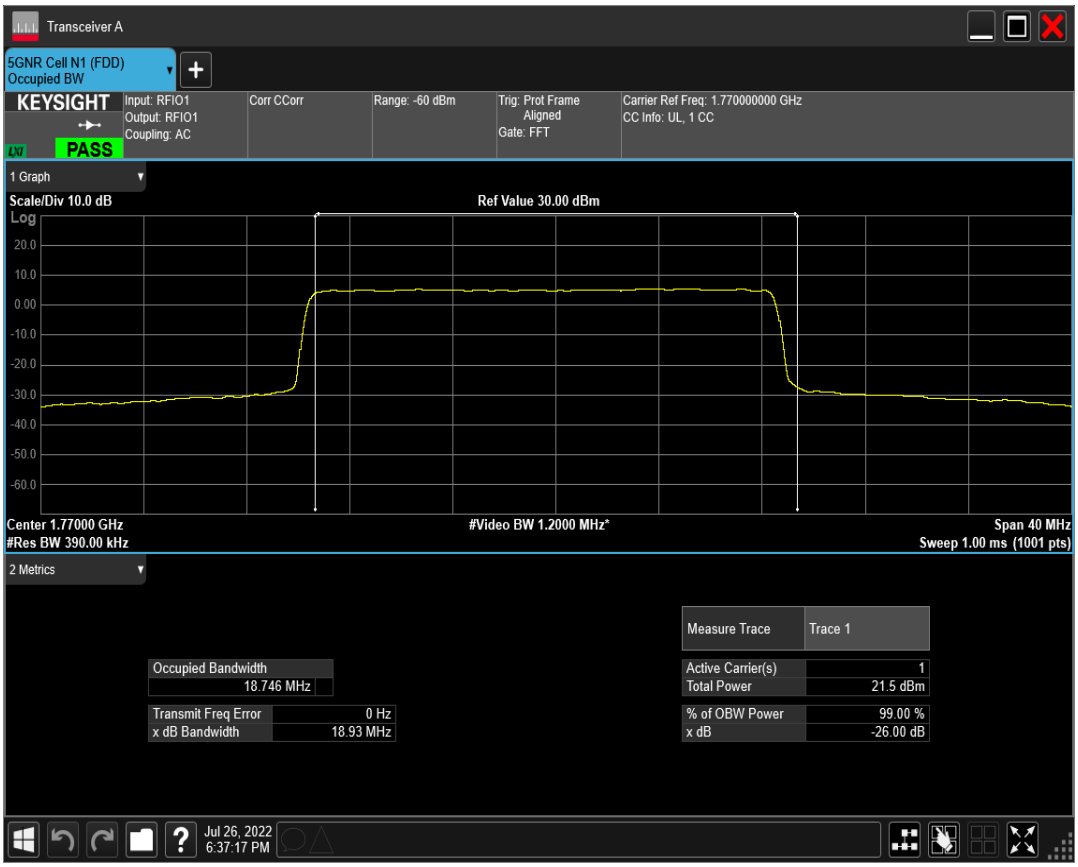
n66 SCS=15kHz CP_QPSK BW=20MHz Channel=349000 RB=106@0



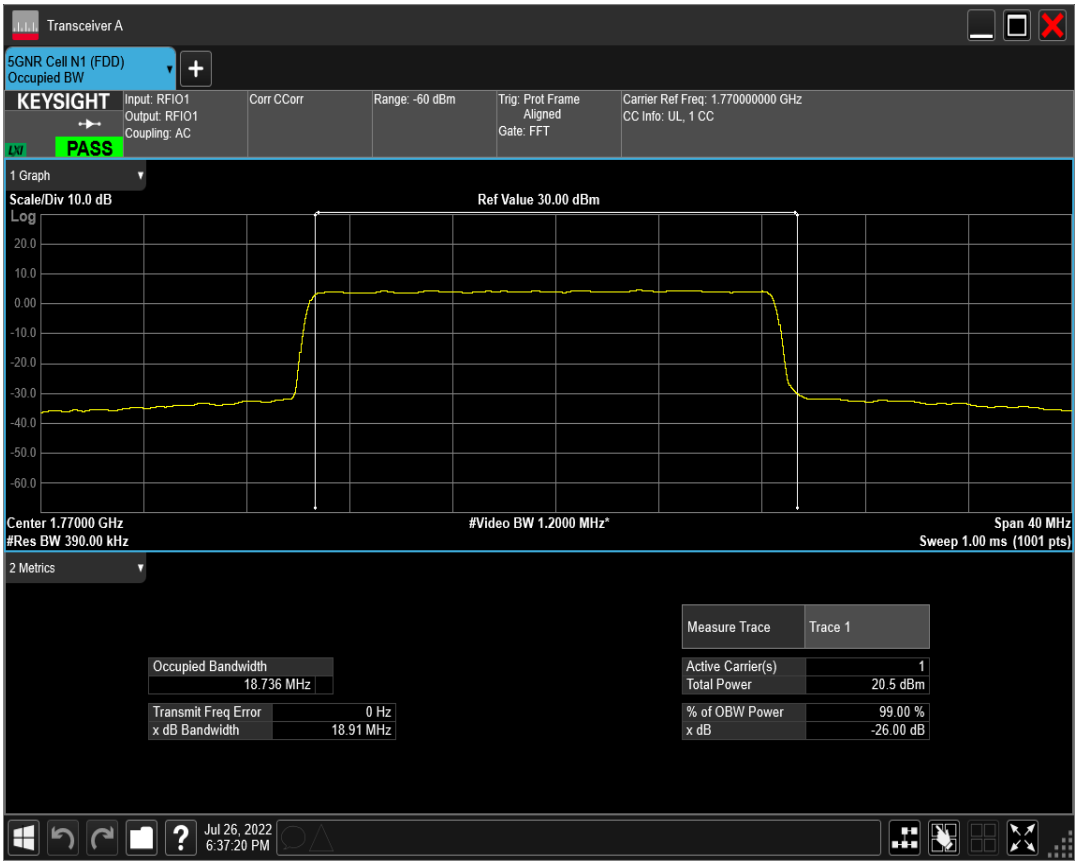
n66 SCS=15kHz DFT_BPSK BW=20MHz Channel=354000 RB=100@0



n66 SCS=15kHz DFT_QPSK BW=20MHz Channel=354000 RB=100@0



n66 SCS=15kHz DFT_QAM16 BW=20MHz Channel=354000 RB=100@0



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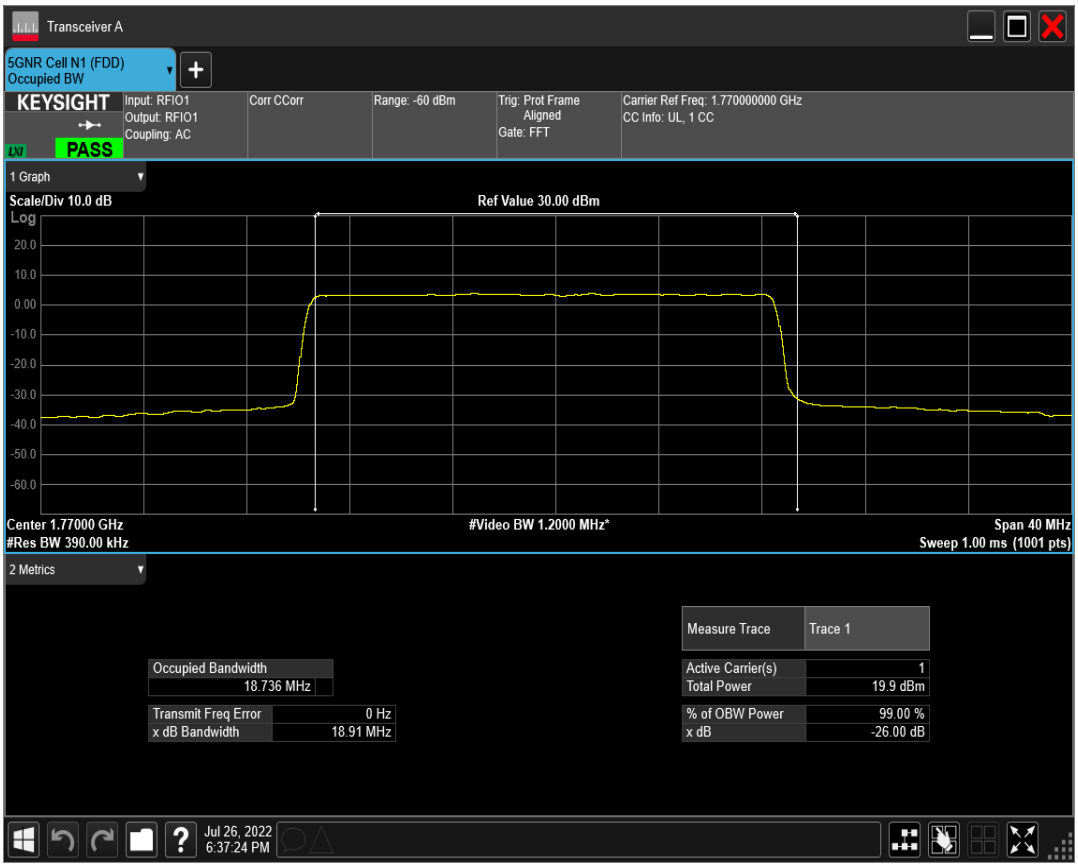
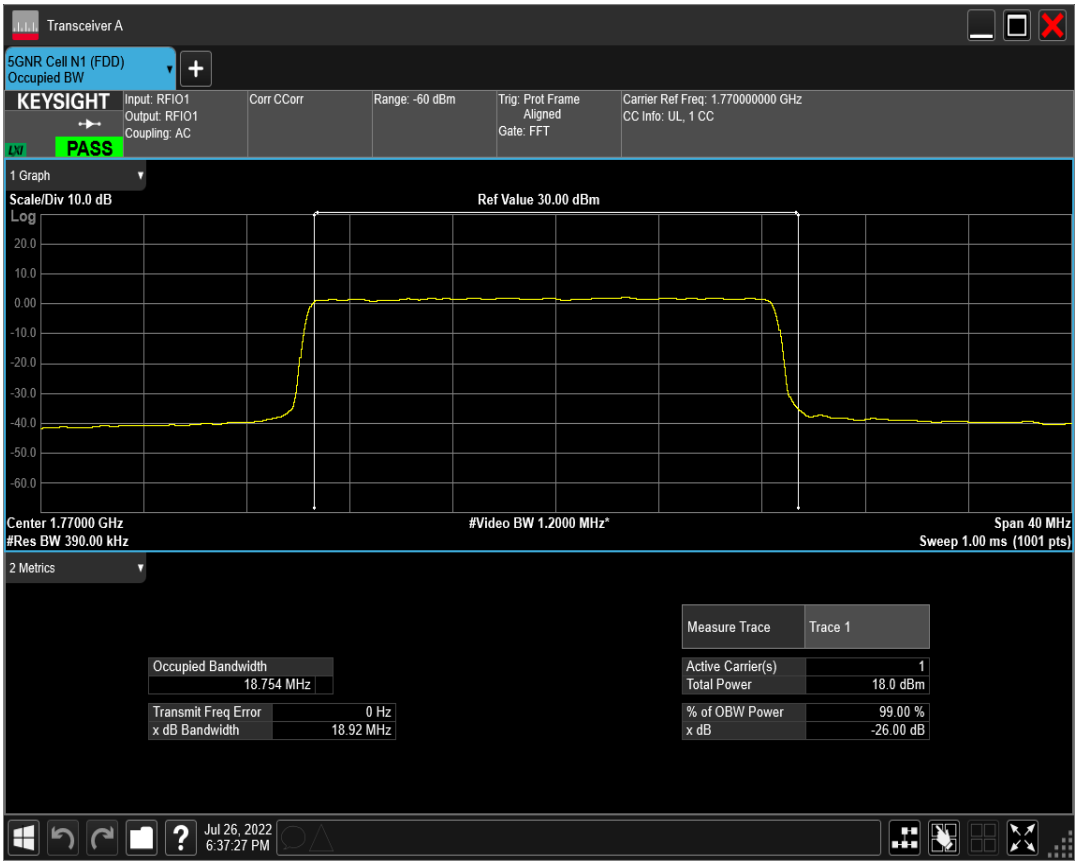
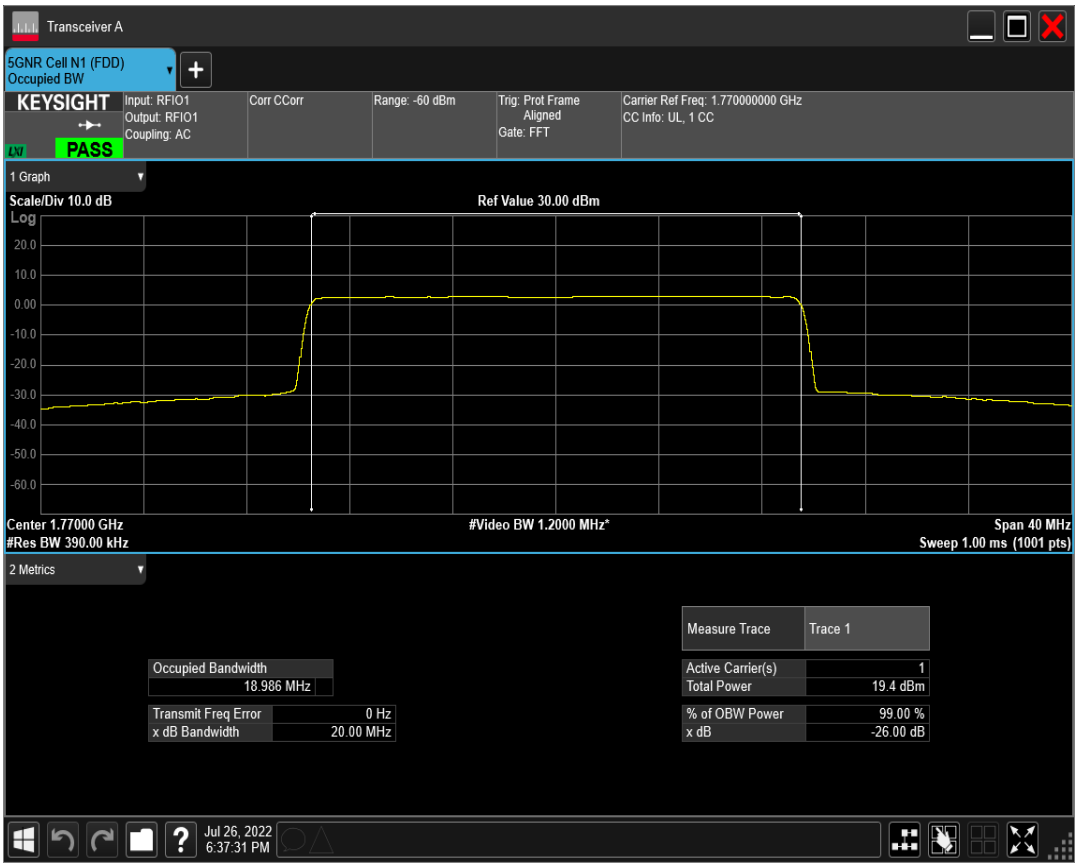


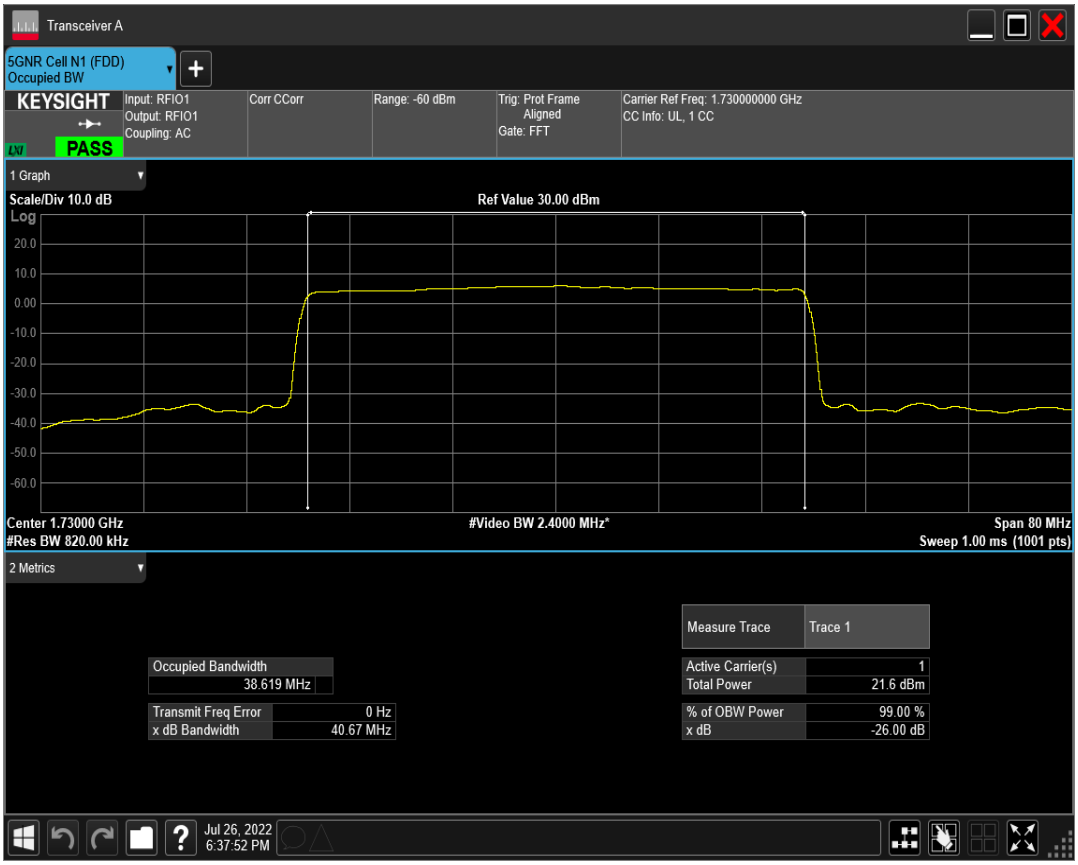
n66 SCS=15kHz DFT_QAM256 BW=20MHz Channel=354000 RB=100@0



n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=106@0

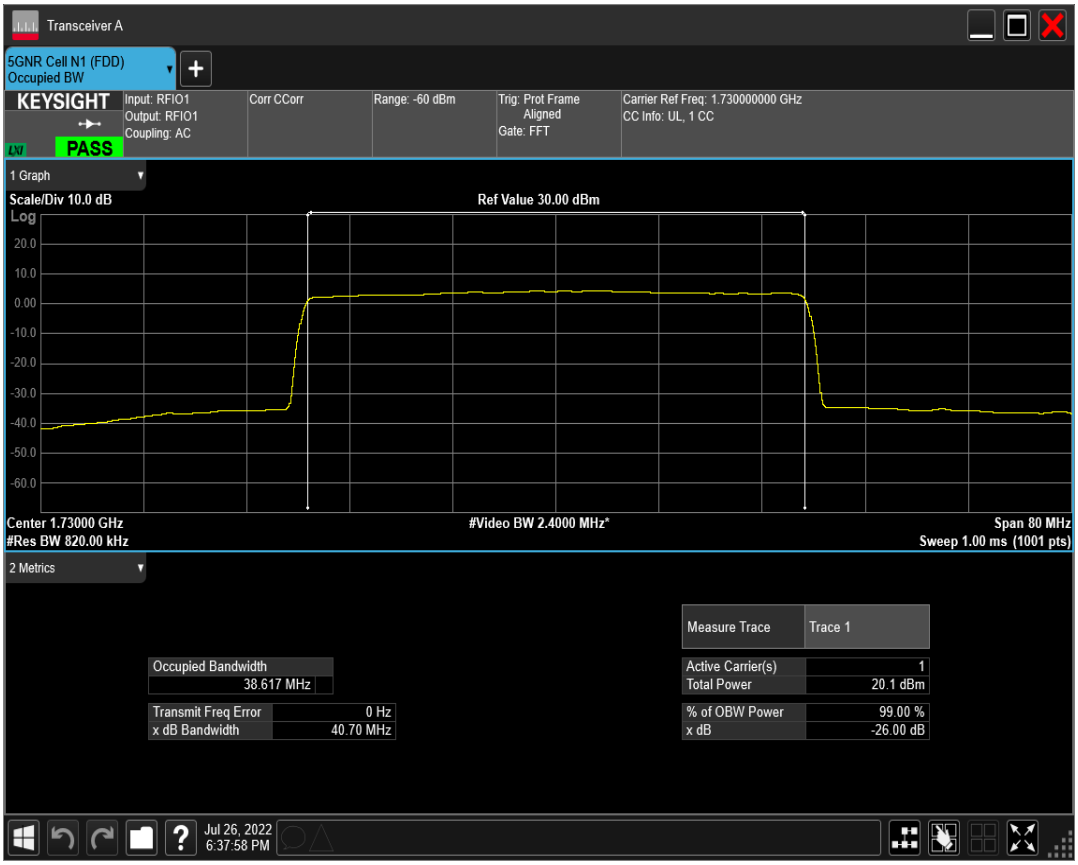


n66 SCS=15kHz DFT_BPSK BW=40MHz Channel=346000 RB=216@0

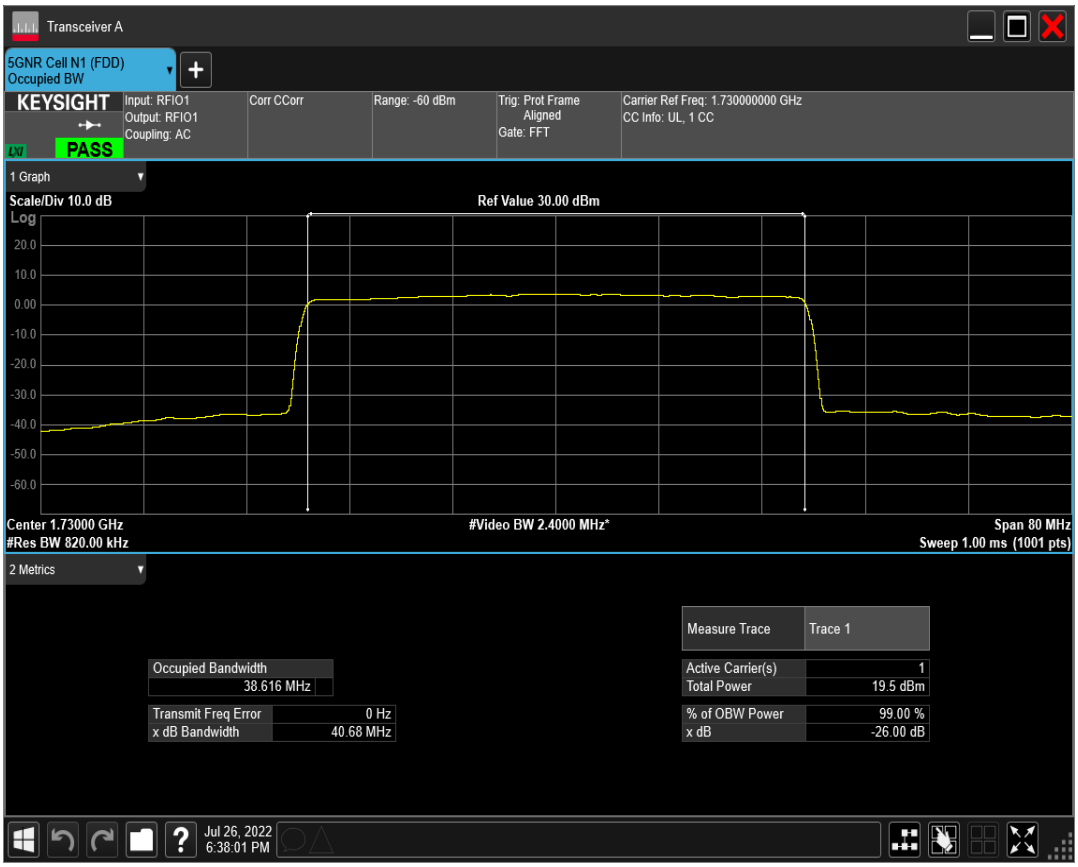


n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=346000 RB=216@0

n66 SCS=15kHz DFT_QAM16 BW=40MHz Channel=346000 RB=216@0

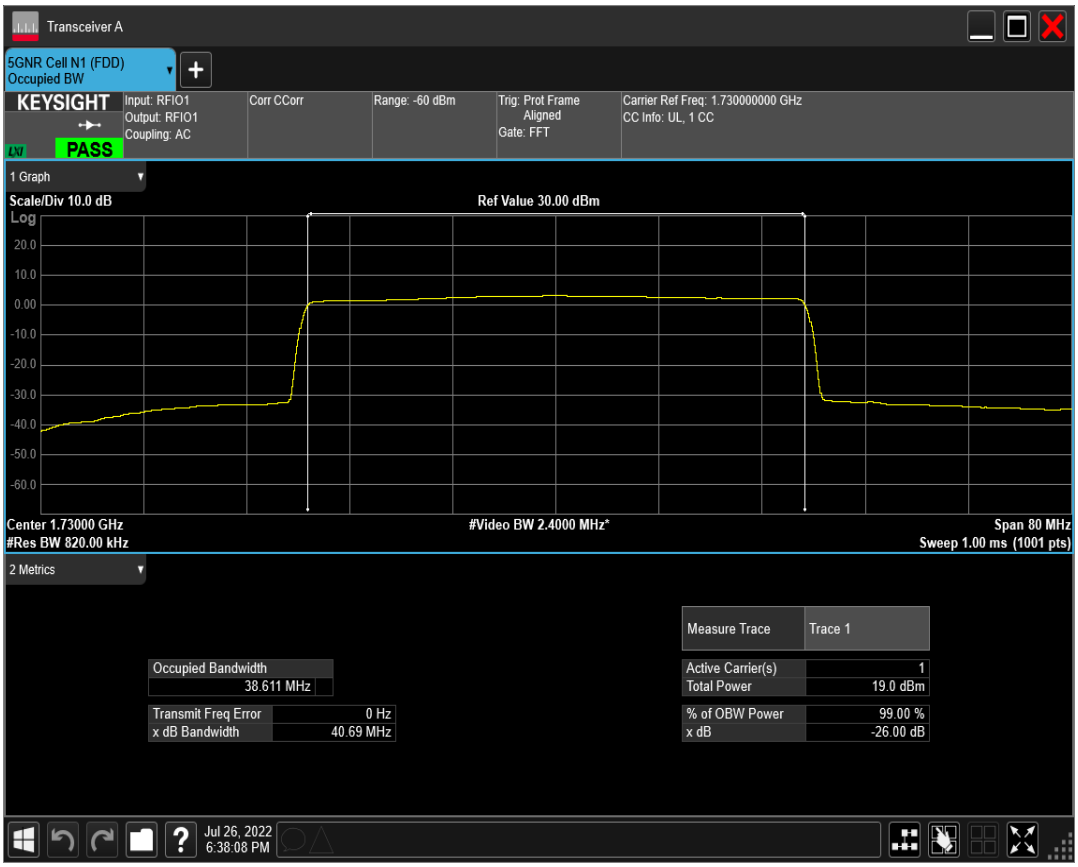


n66 SCS=15kHz DFT_QAM64 BW=40MHz Channel=346000 RB=216@0

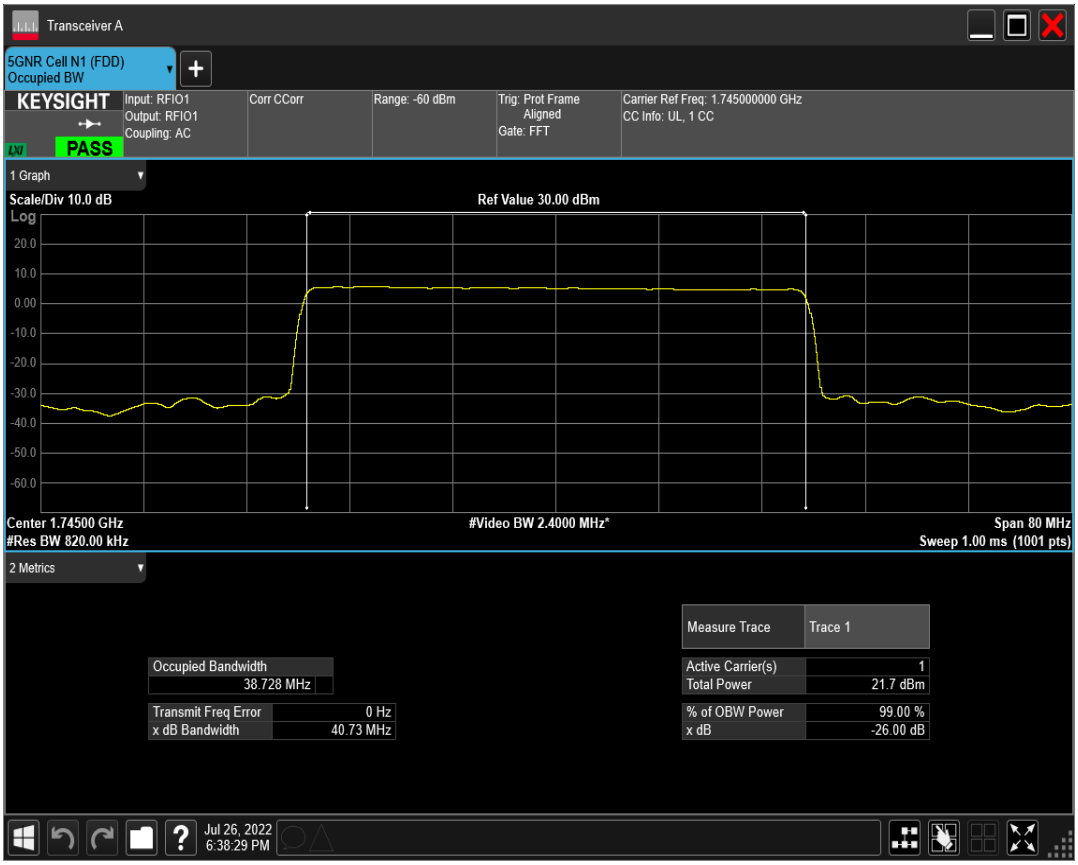


n66 SCS=15kHz DFT_QAM256 BW=40MHz Channel=346000 RB=216@0

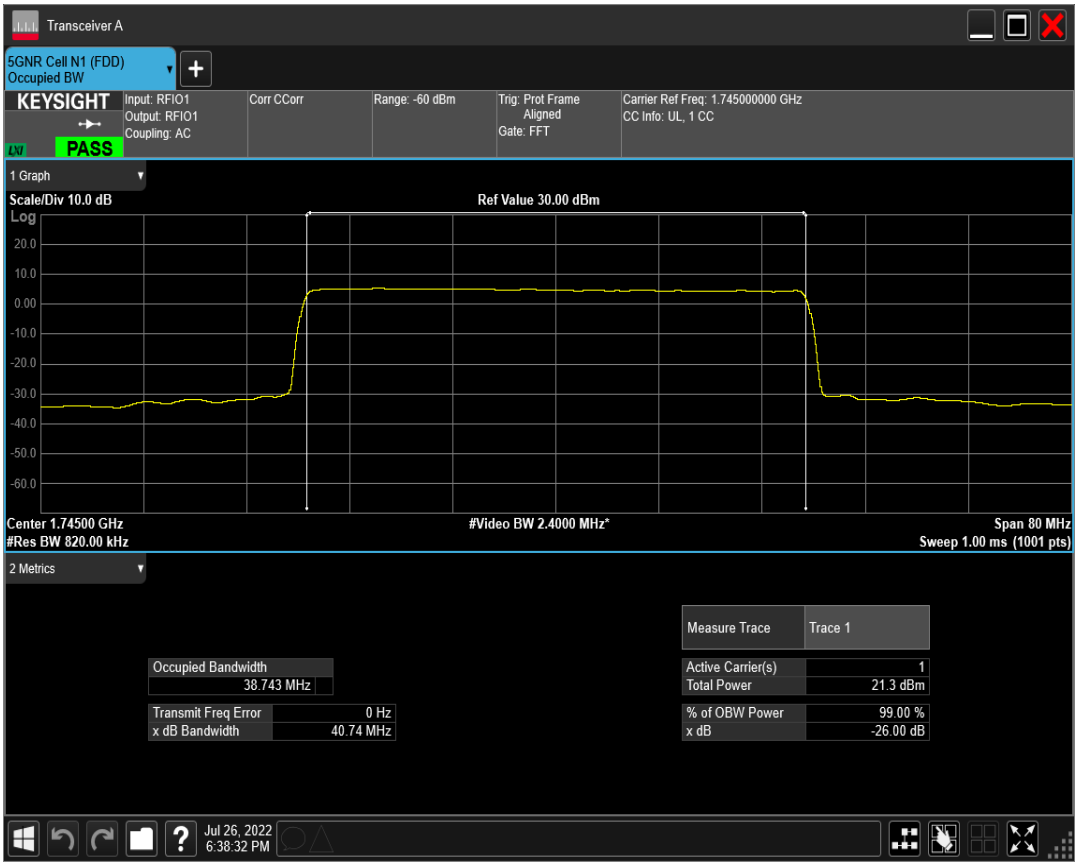
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=216@0



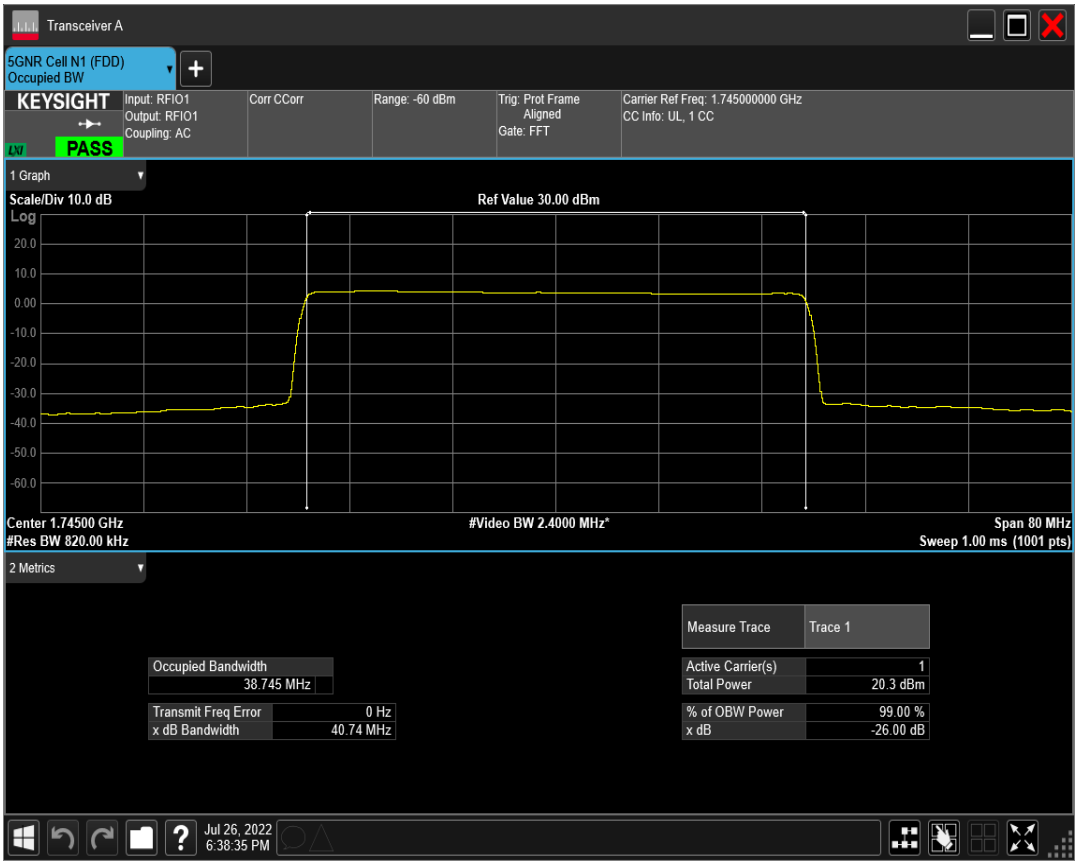
n66 SCS=15kHz DFT_BPSK BW=40MHz Channel=349000 RB=216@0



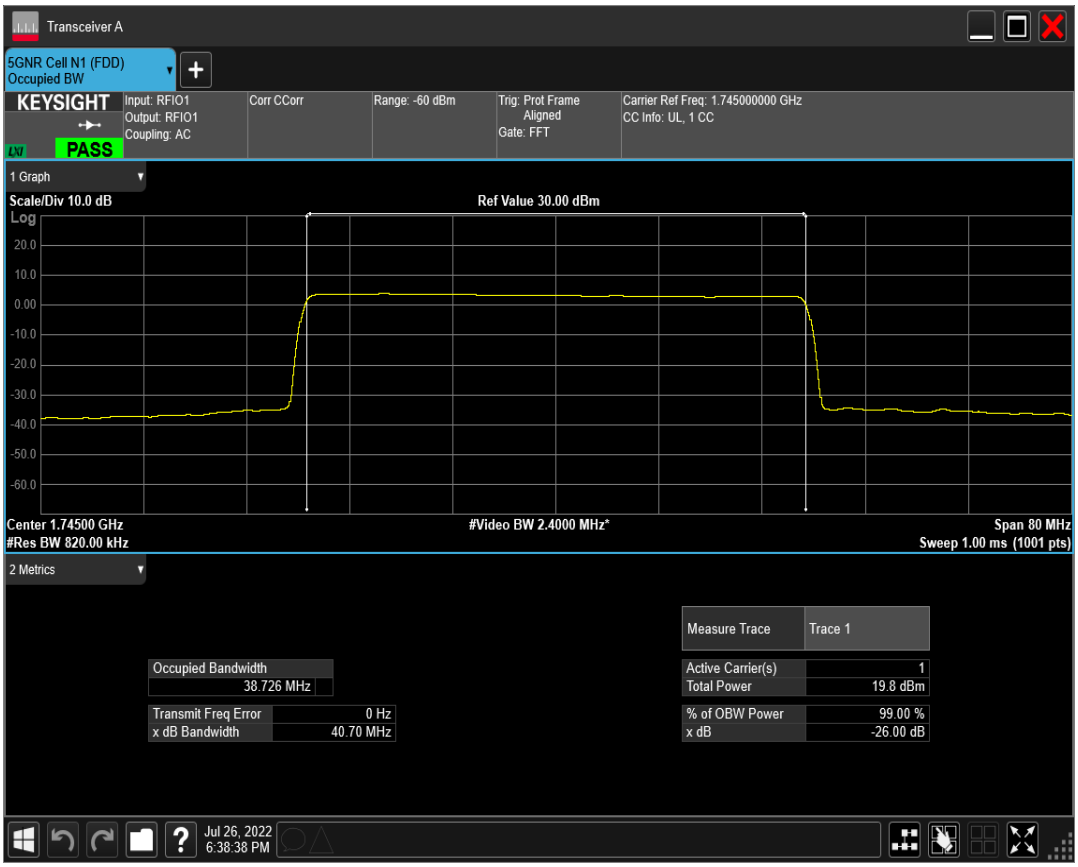
n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=349000 RB=216@0



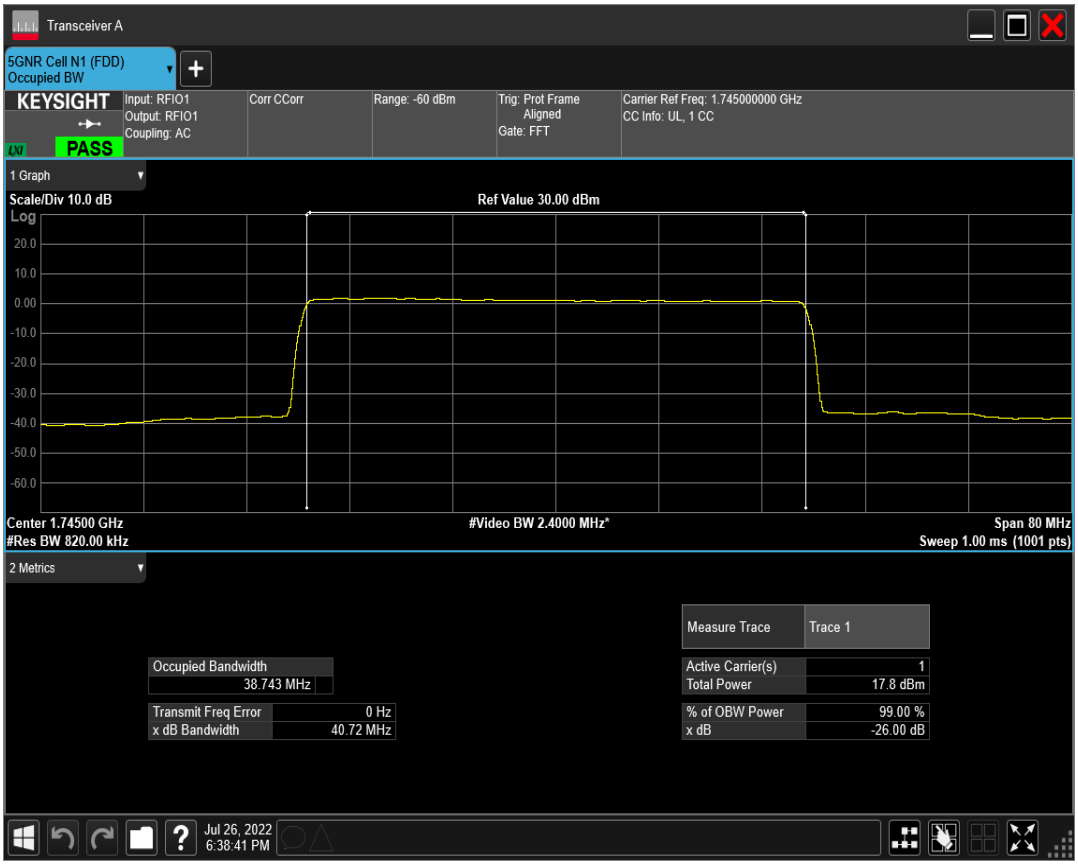
n66 SCS=15kHz DFT_QAM16 BW=40MHz Channel=349000 RB=216@0



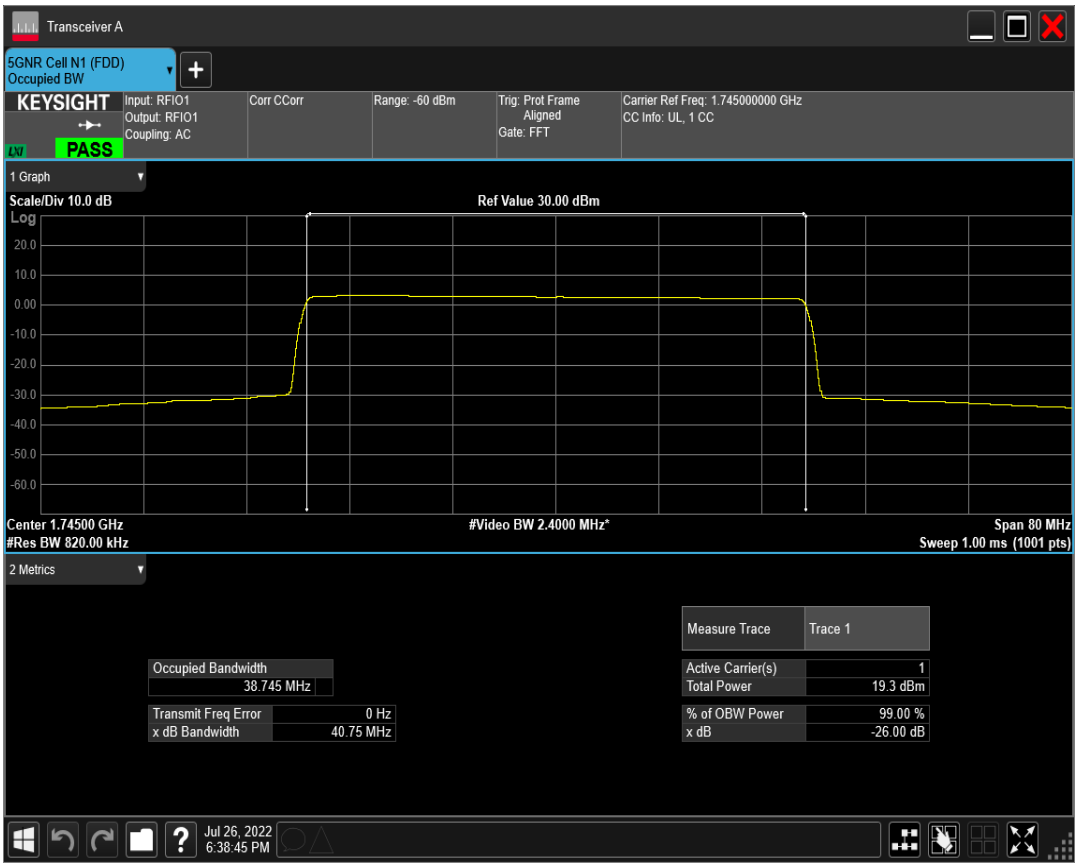
n66 SCS=15kHz DFT_QAM64 BW=40MHz Channel=349000 RB=216@0



n66 SCS=15kHz DFT_QAM256 BW=40MHz Channel=349000 RB=216@0



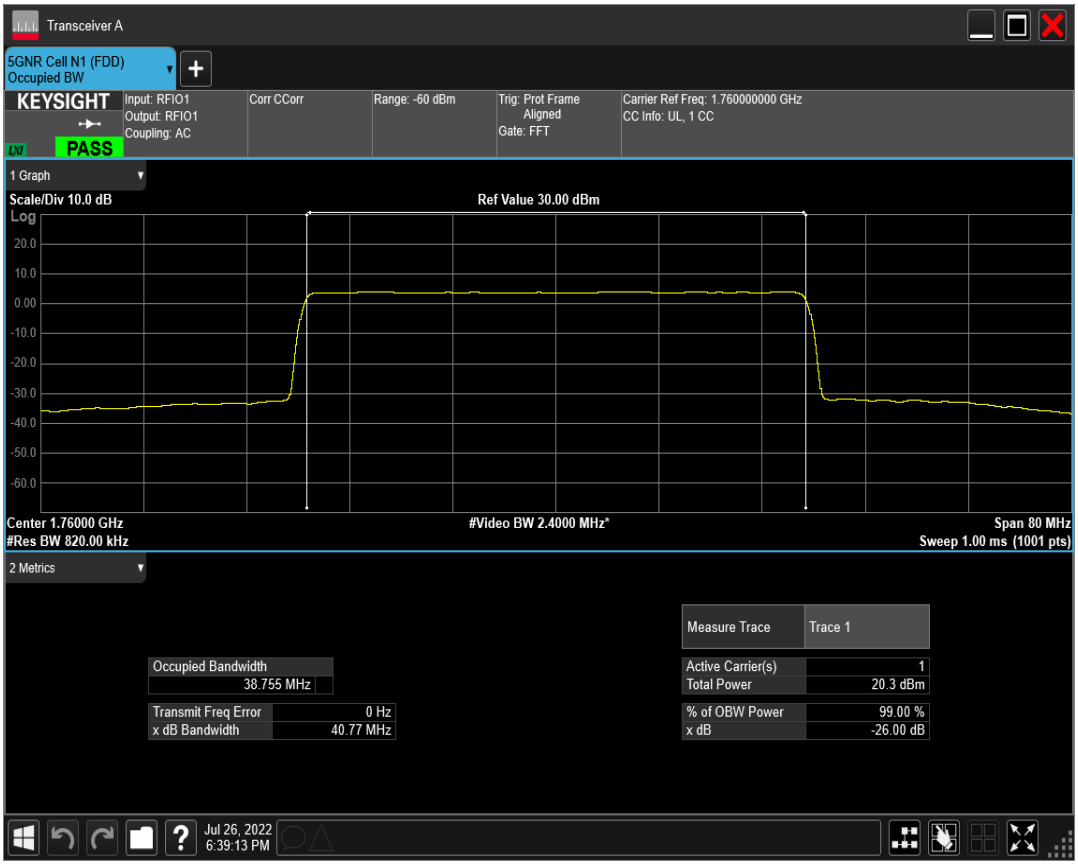
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=349000 RB=216@0



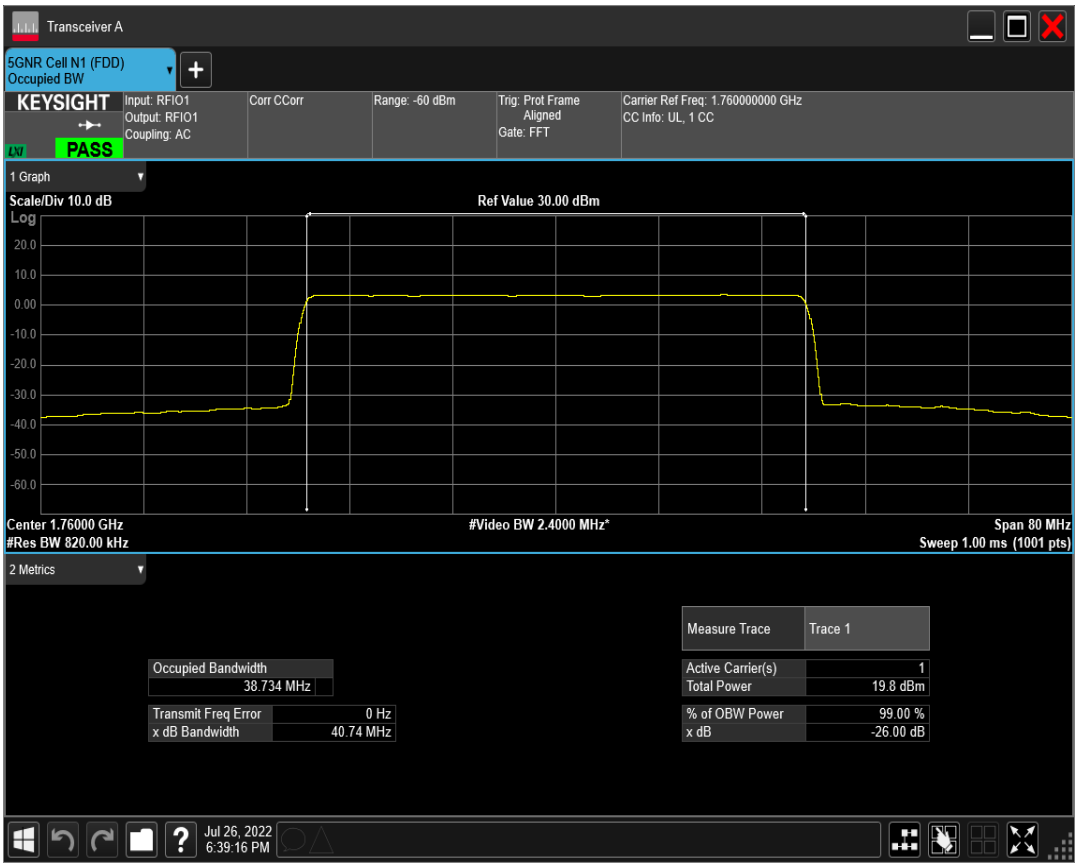
n66 SCS=15kHz DFT_BPSK BW=40MHz Channel=352000 RB=216@0

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=352000 RB=216@0

n66 SCS=15kHz DFT_QAM16 BW=40MHz Channel=352000 RB=216@0

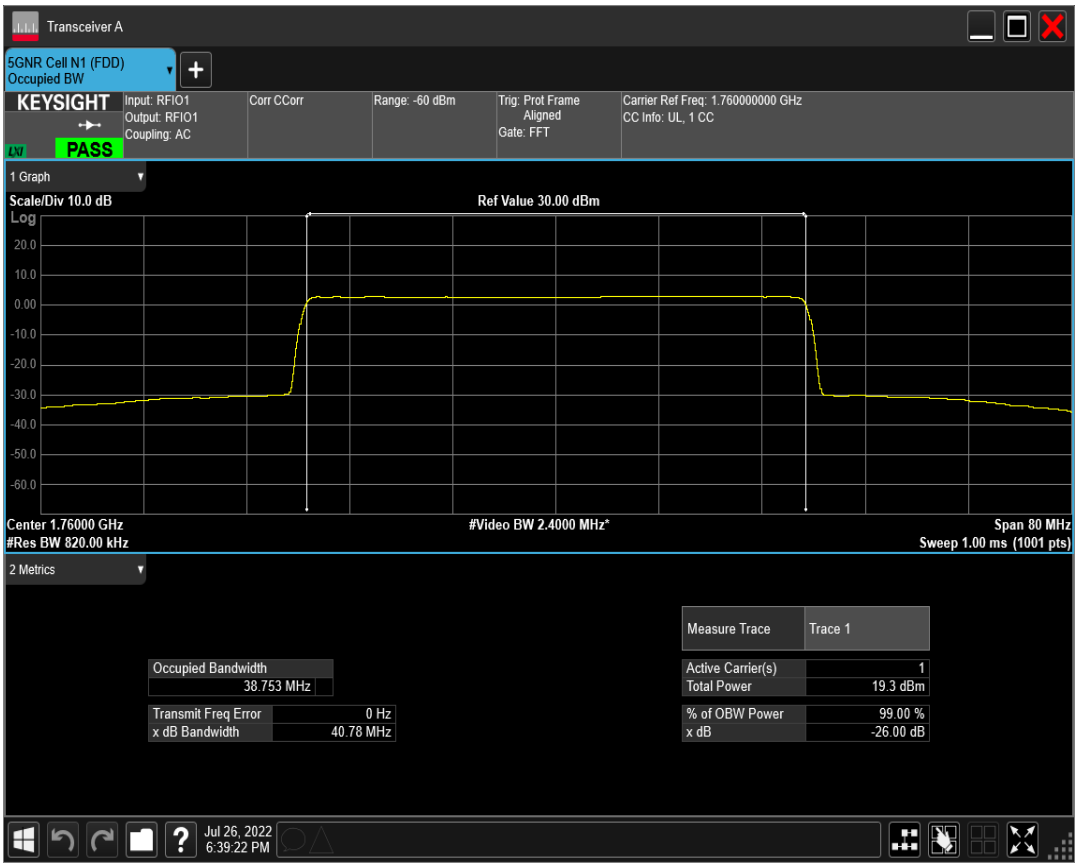


n66 SCS=15kHz DFT_QAM64 BW=40MHz Channel=352000 RB=216@0



n66 SCS=15kHz DFT_QAM256 BW=40MHz Channel=352000 RB=216@0

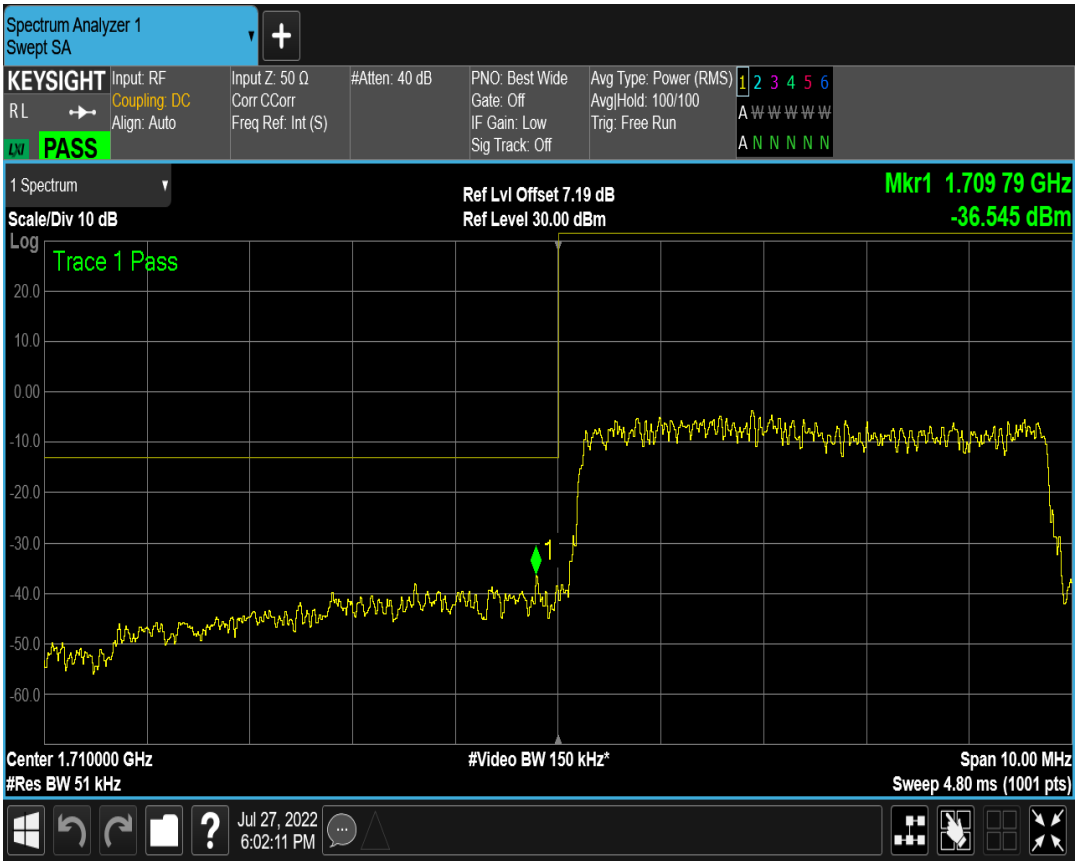
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=216@0



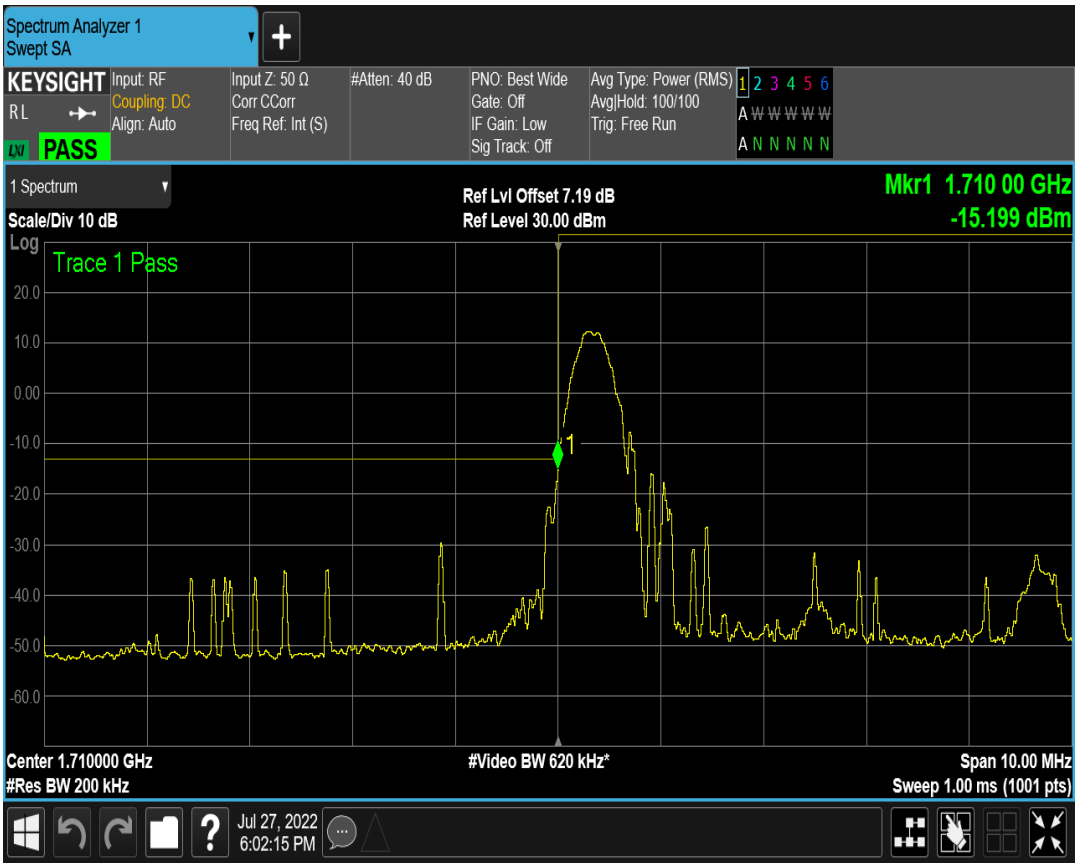
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n66	15	5	342500	25@0	DFT_QPSK	1709.79	-36.54	-13	PASS
n66	15	5	342500	1@0	DFT_QPSK	1710.00	-15.19	-13	PASS
n66	15	5	355500	25@0	DFT_QPSK	1780.80	-38.22	-13	PASS
n66	15	5	355500	1@24	DFT_QPSK	1780.00	-15.85	-13	PASS
n66	15	40	346000	216@0	DFT_QPSK	1710.00	-36.69	-13	PASS
n66	15	40	346000	1@0	DFT_QPSK	1709.92	-22.34	-13	PASS
n66	15	40	352000	216@0	DFT_QPSK	1780.00	-36.95	-13	PASS
n66	15	40	352000	1@215	DFT_QPSK	1780.00	-26.94	-13	PASS

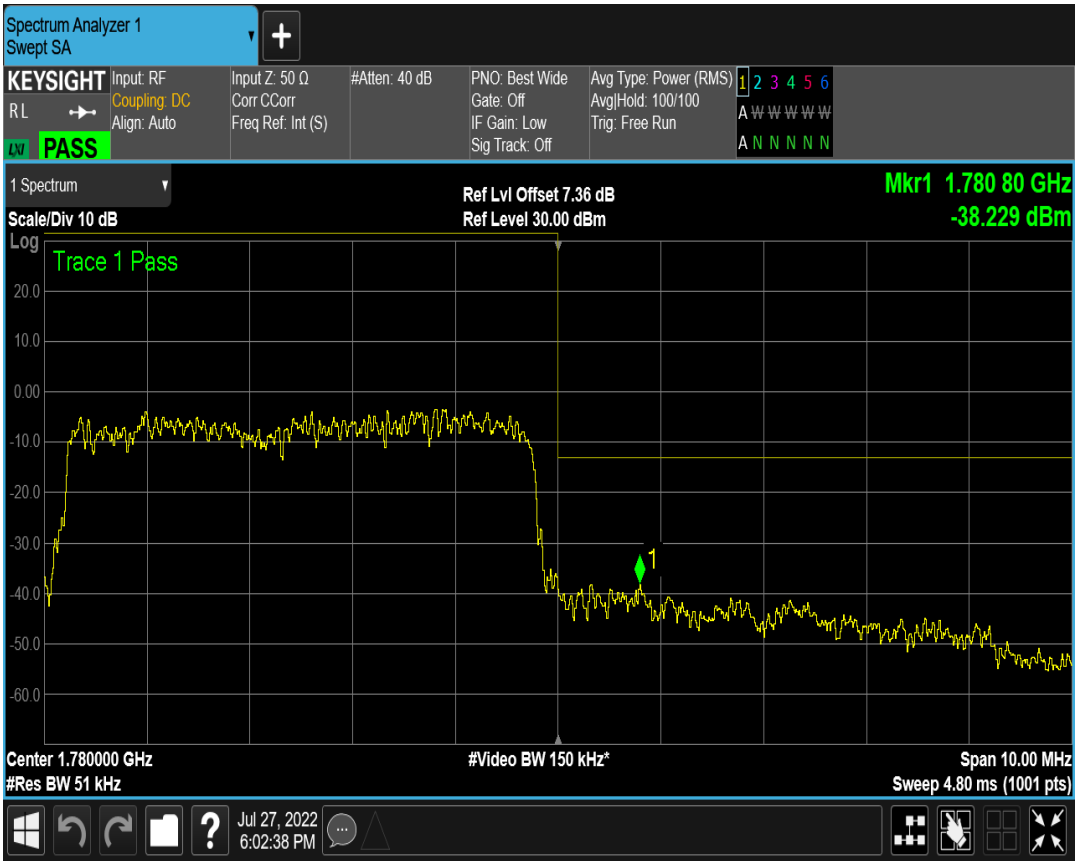
n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=342500 RB=25@0



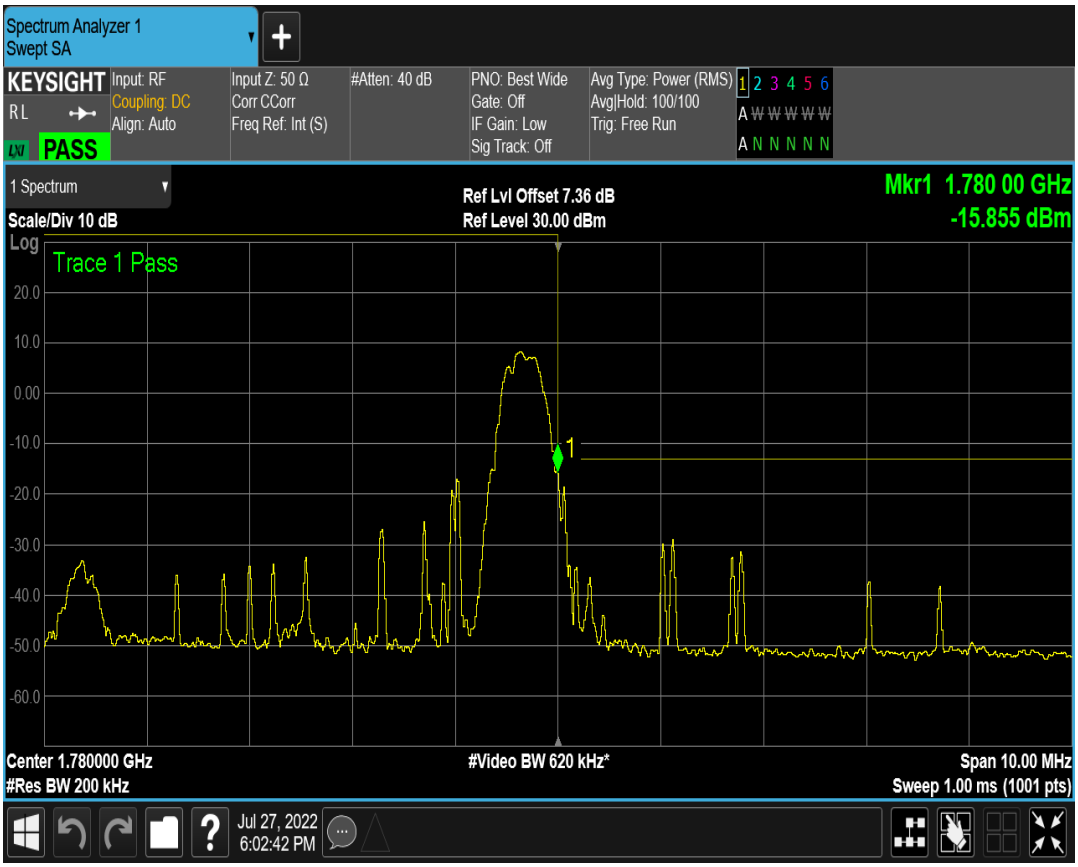
n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=342500 RB=1@0



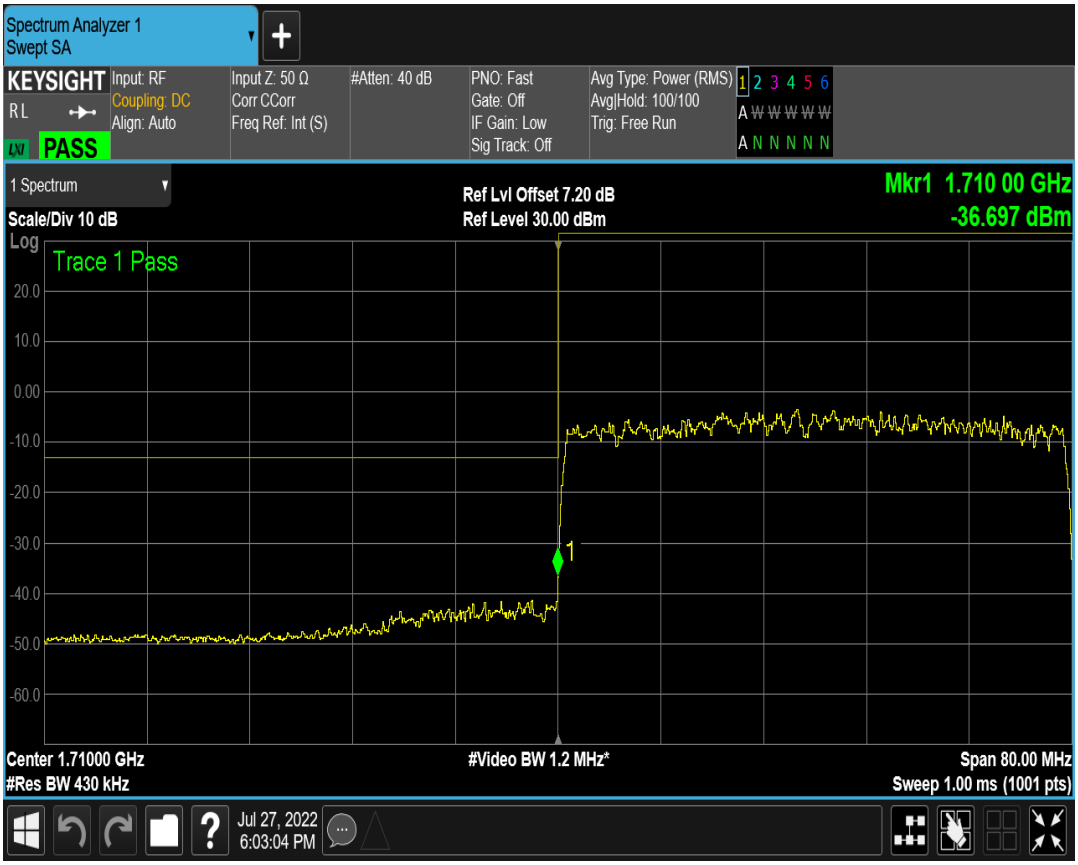
n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=355500 RB=25@0



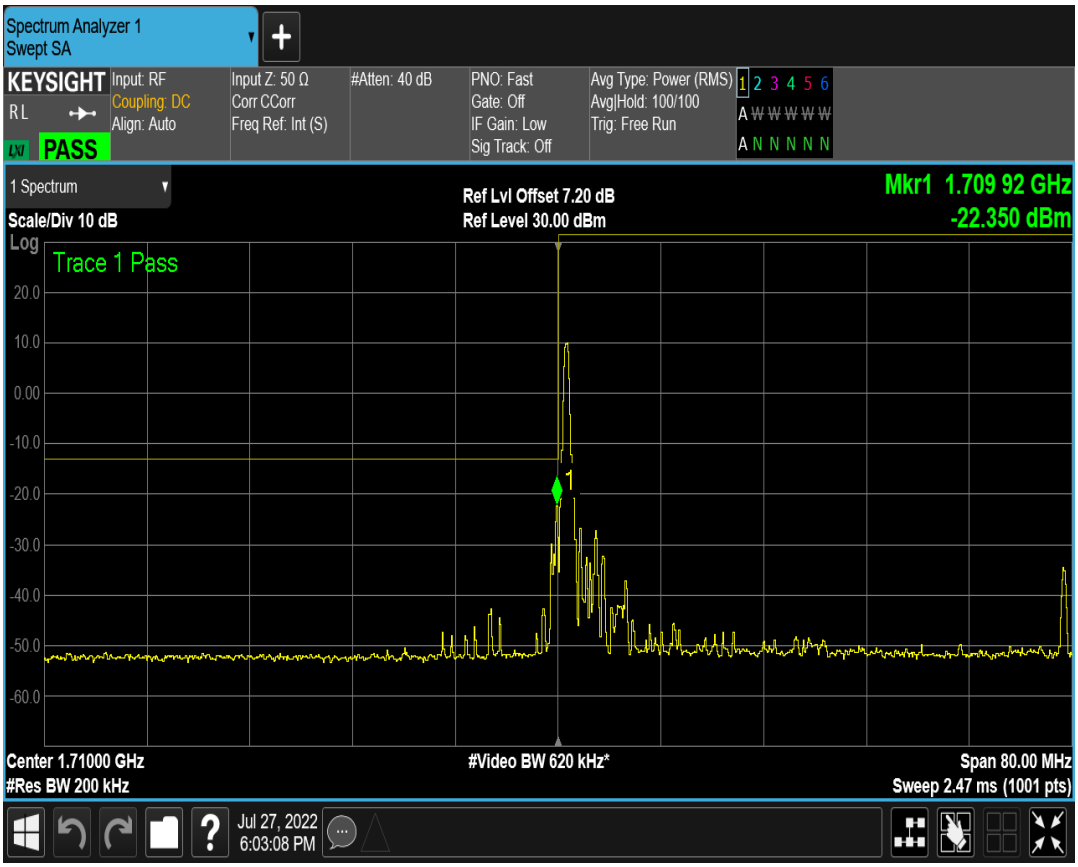
n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=355500 RB=1@24



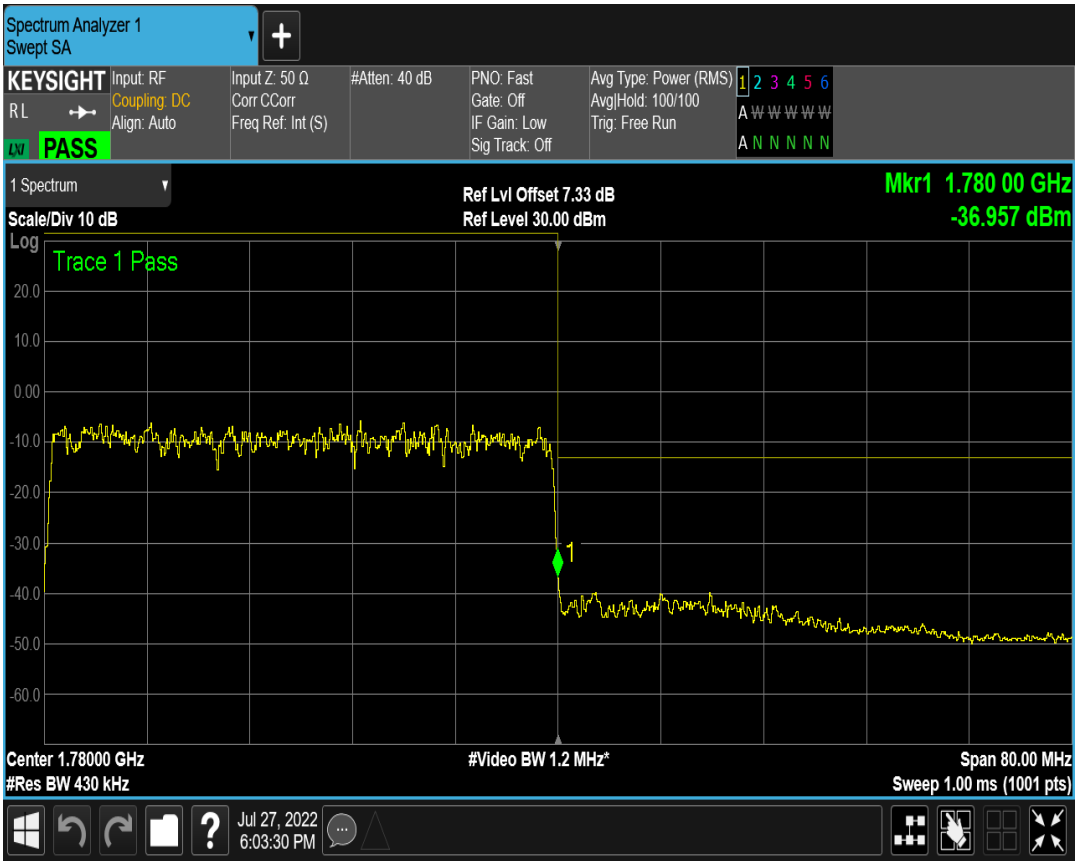
n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=346000 RB=216@0



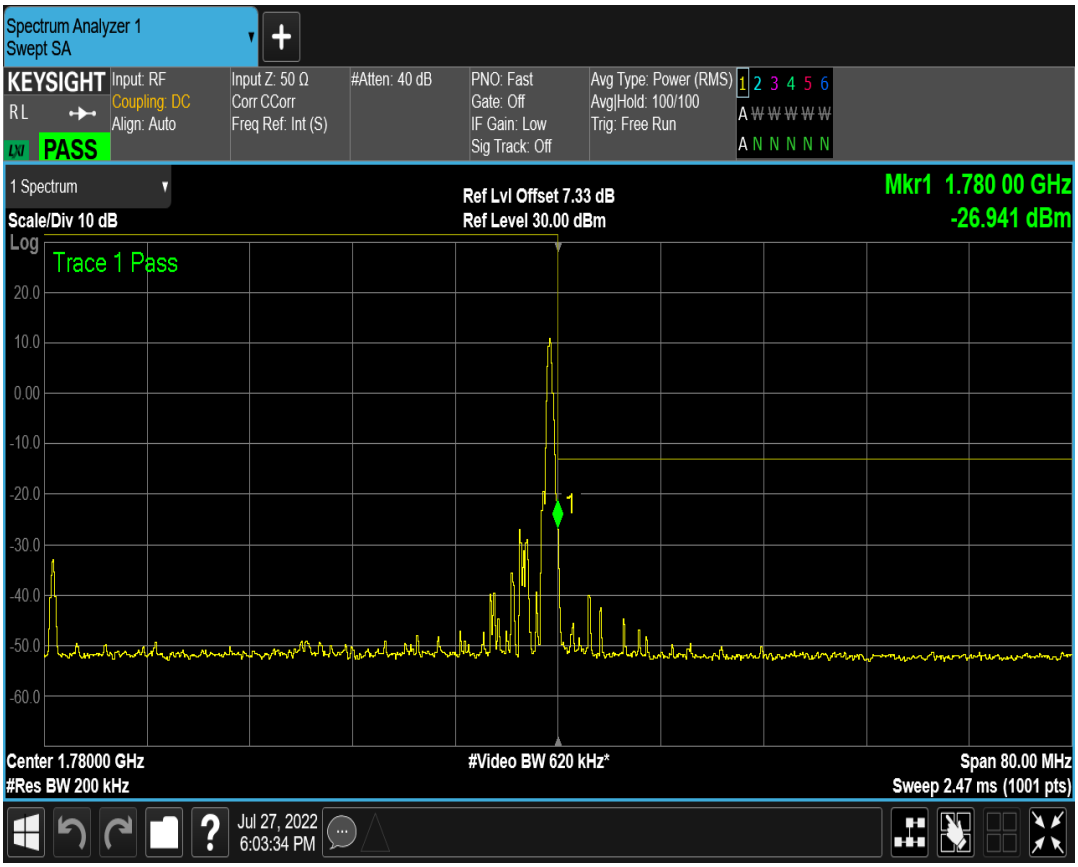
n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=346000 RB=1@0



n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=352000 RB=216@0



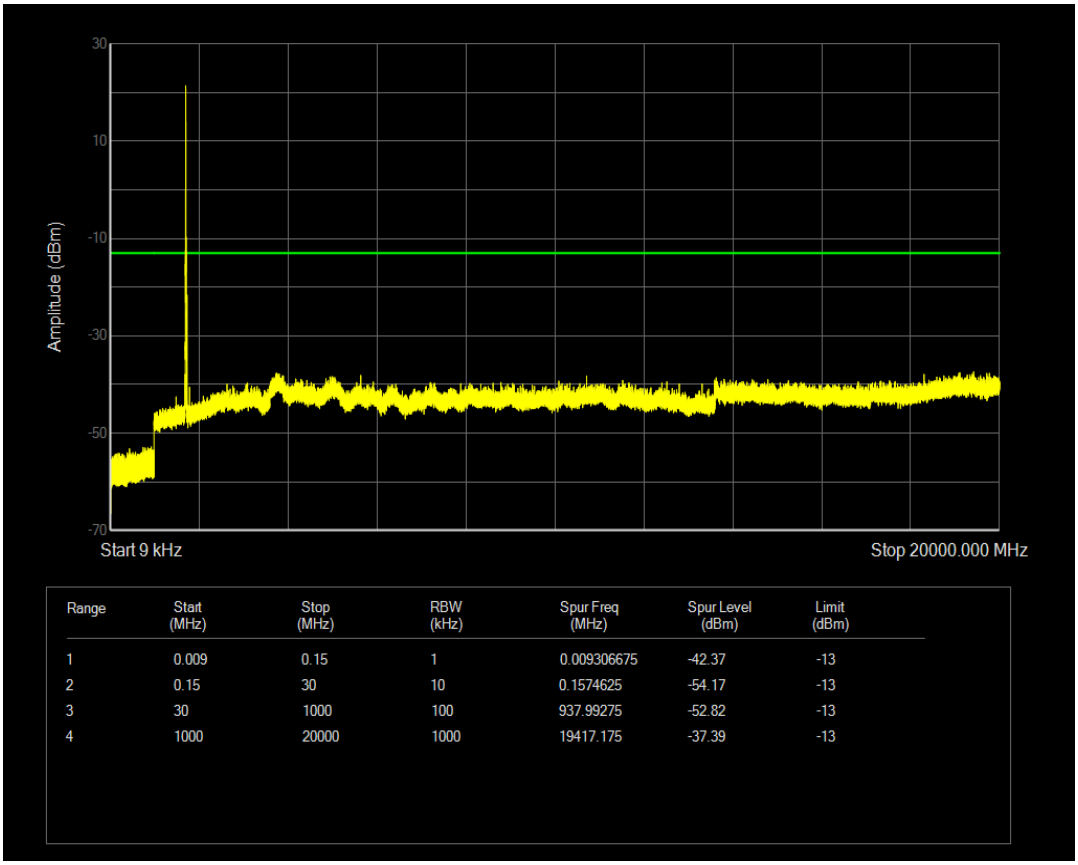
n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=352000 RB=1@215



6 Out-of-band emissions for NR FR1

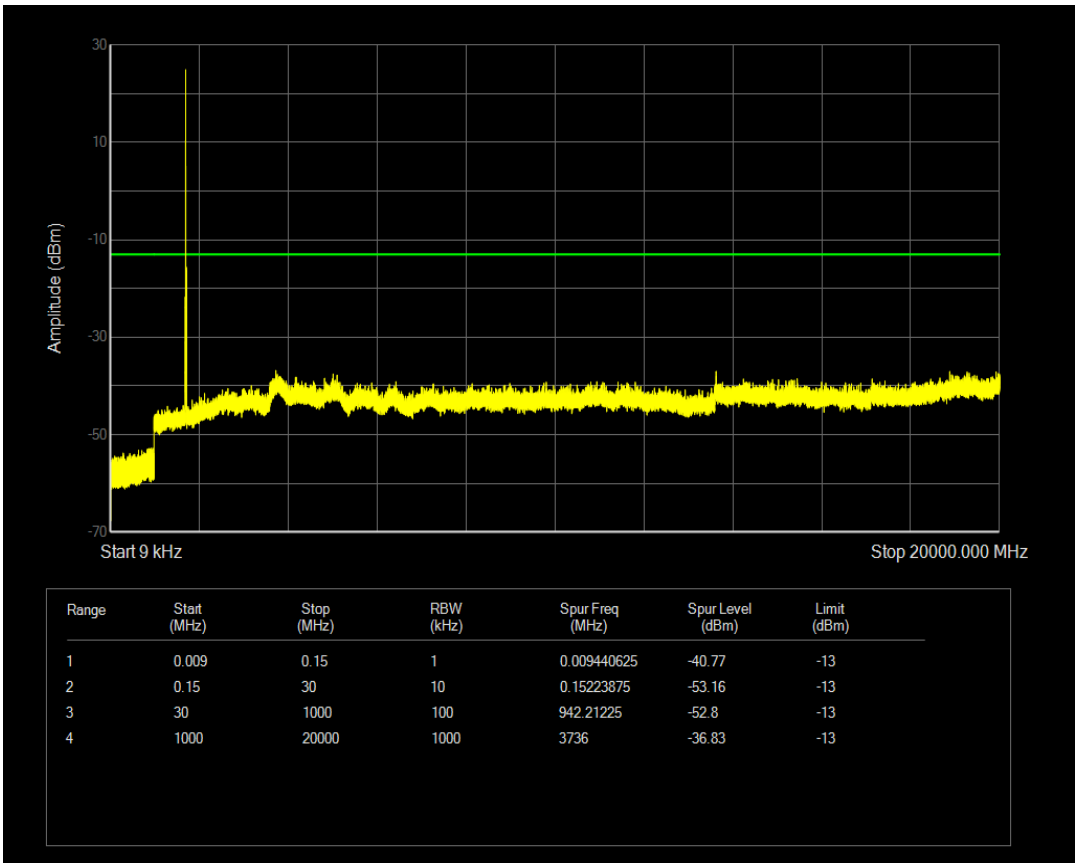
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n66	15	5	342500	25@0	DFT_QPSK	19417.18	-37.39	-13	PASS
n66	15	5	342500	1@0	DFT_QPSK	3736.00	-36.83	-13	PASS
n66	15	5	342500	1@24	DFT_QPSK	19090.85	-37.06	-13	PASS
n66	15	5	349000	25@0	DFT_QPSK	19937.30	-37.04	-13	PASS
n66	15	5	349000	1@0	DFT_QPSK	19261.85	-36.28	-13	PASS
n66	15	5	349000	1@24	DFT_QPSK	19884.10	-36.64	-13	PASS
n66	15	5	355500	25@0	DFT_QPSK	5072.18	-36.77	-13	PASS
n66	15	5	355500	1@0	DFT_QPSK	3675.20	-36.34	-13	PASS
n66	15	5	355500	1@24	DFT_QPSK	19236.20	-36.61	-13	PASS
n66	15	40	346000	216@0	DFT_QPSK	19959.63	-37.13	-13	PASS
n66	15	40	346000	1@0	DFT_QPSK	3731.25	-36.49	-13	PASS
n66	15	40	346000	1@215	DFT_QPSK	19852.75	-36.91	-13	PASS
n66	15	40	349000	216@0	DFT_QPSK	19907.38	-36.79	-13	PASS
n66	15	40	349000	1@0	DFT_QPSK	3796.80	-36.71	-13	PASS
n66	15	40	349000	1@215	DFT_QPSK	3720.33	-35.77	-13	PASS
n66	15	40	352000	216@0	DFT_QPSK	3831.48	-37.00	-13	PASS
n66	15	40	352000	1@0	DFT_QPSK	19130.28	-35.60	-13	PASS
n66	15	40	352000	1@215	DFT_QPSK	19901.20	-36.25	-13	PASS

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=342500 RB=25@0



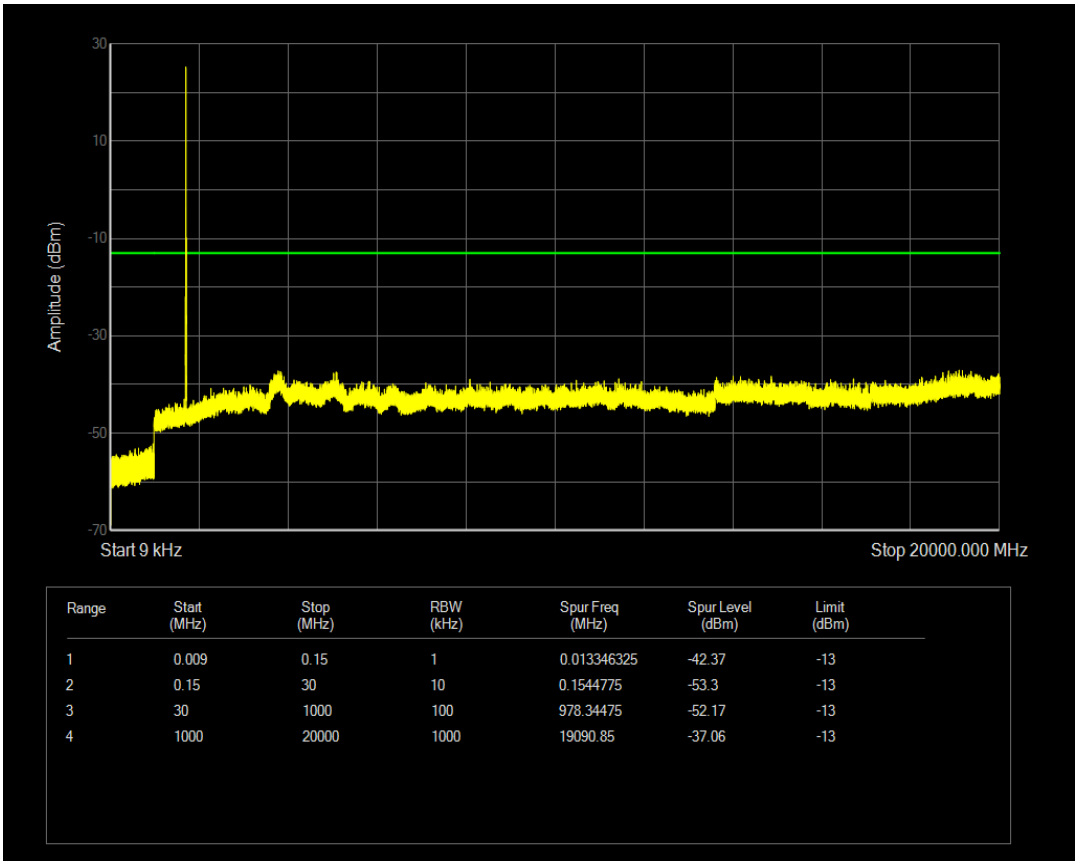
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009306675	-42.37	-13
2	0.15	30	10	0.1574625	-54.17	-13
3	30	1000	100	937.99275	-52.82	-13
4	1000	20000	1000	19417.175	-37.39	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=342500 RB=1@0



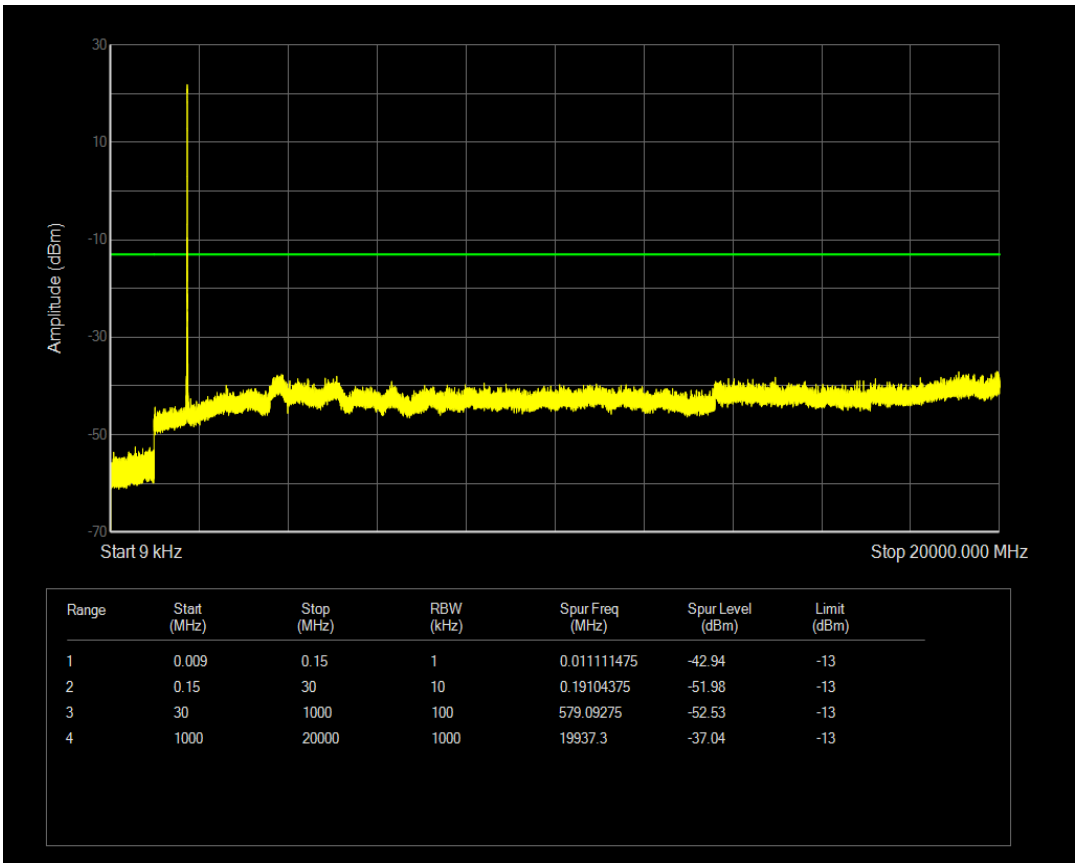
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009440625	-40.77	-13
2	0.15	30	10	0.15223875	-53.16	-13
3	30	1000	100	942.21225	-52.8	-13
4	1000	20000	1000	3736	-36.83	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=342500 RB=1@24



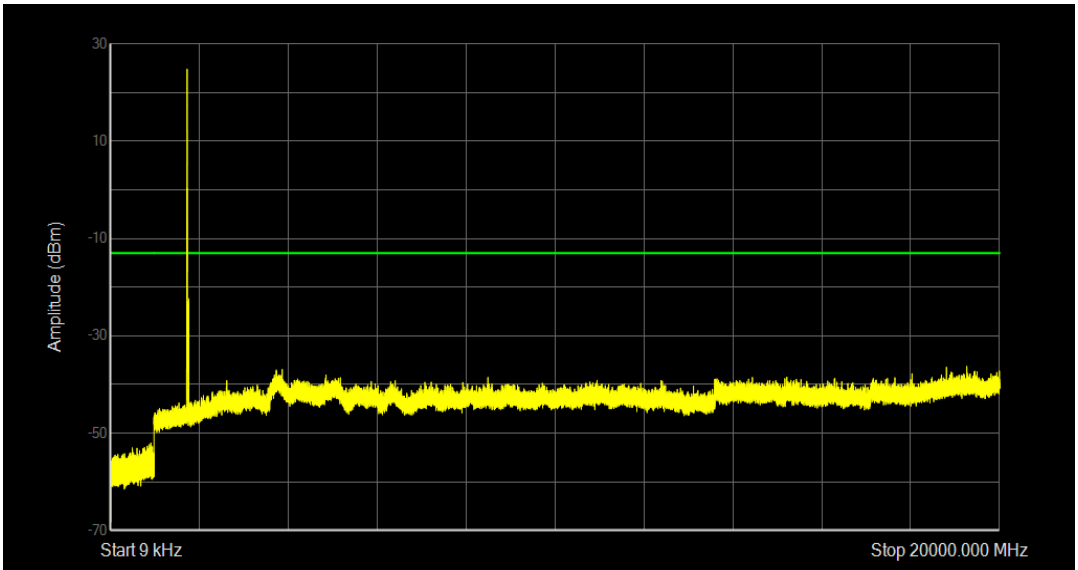
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013346325	-42.37	-13
2	0.15	30	10	0.1544775	-53.3	-13
3	30	1000	100	978.34475	-52.17	-13
4	1000	20000	1000	19090.85	-37.06	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=349000 RB=25@0



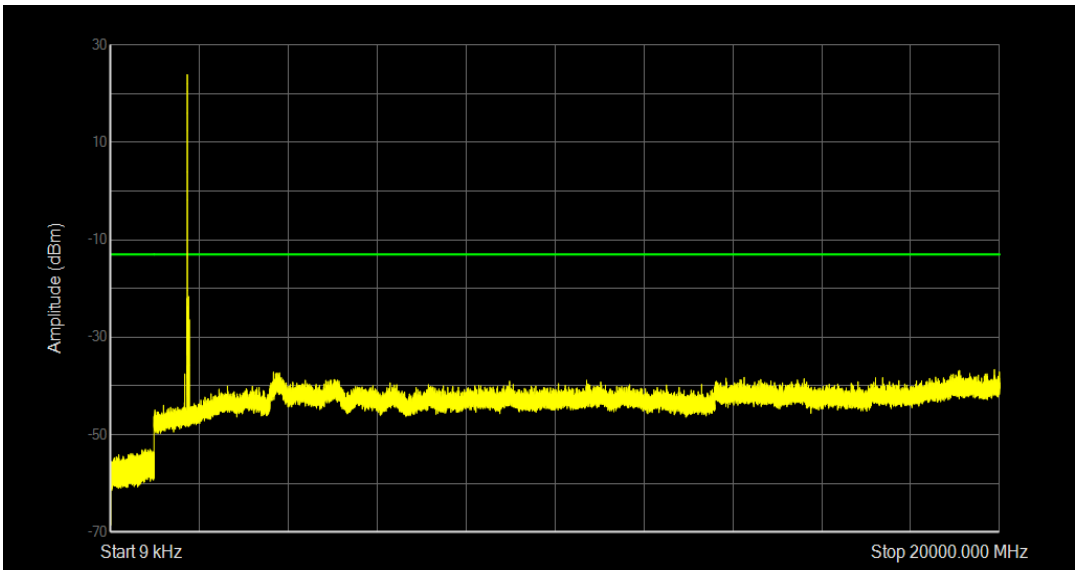
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011111475	-42.94	-13
2	0.15	30	10	0.19104375	-51.98	-13
3	30	1000	100	579.09275	-52.53	-13
4	1000	20000	1000	19937.3	-37.04	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=349000 RB=1@0



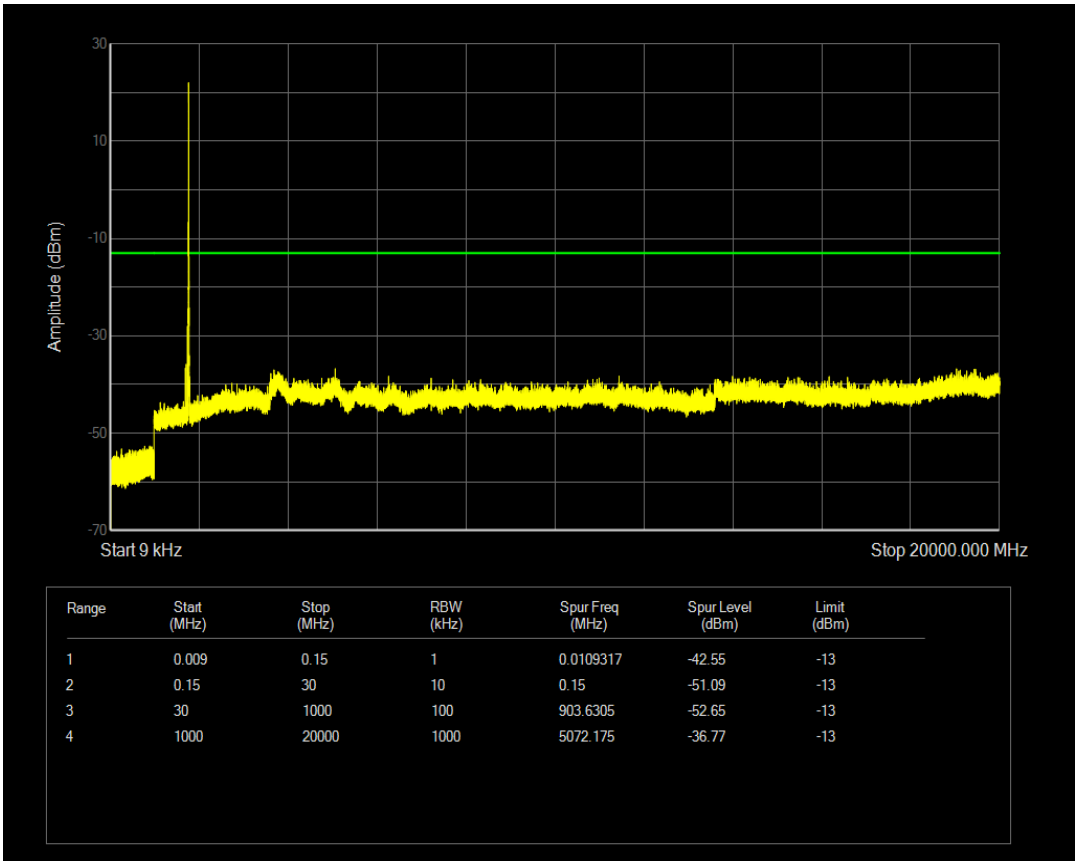
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009278475	-43.06	-13
2	0.15	30	10	0.15820875	-52.99	-13
3	30	1000	100	928.48675	-52.03	-13
4	1000	20000	1000	19261.85	-36.28	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=349000 RB=1@24



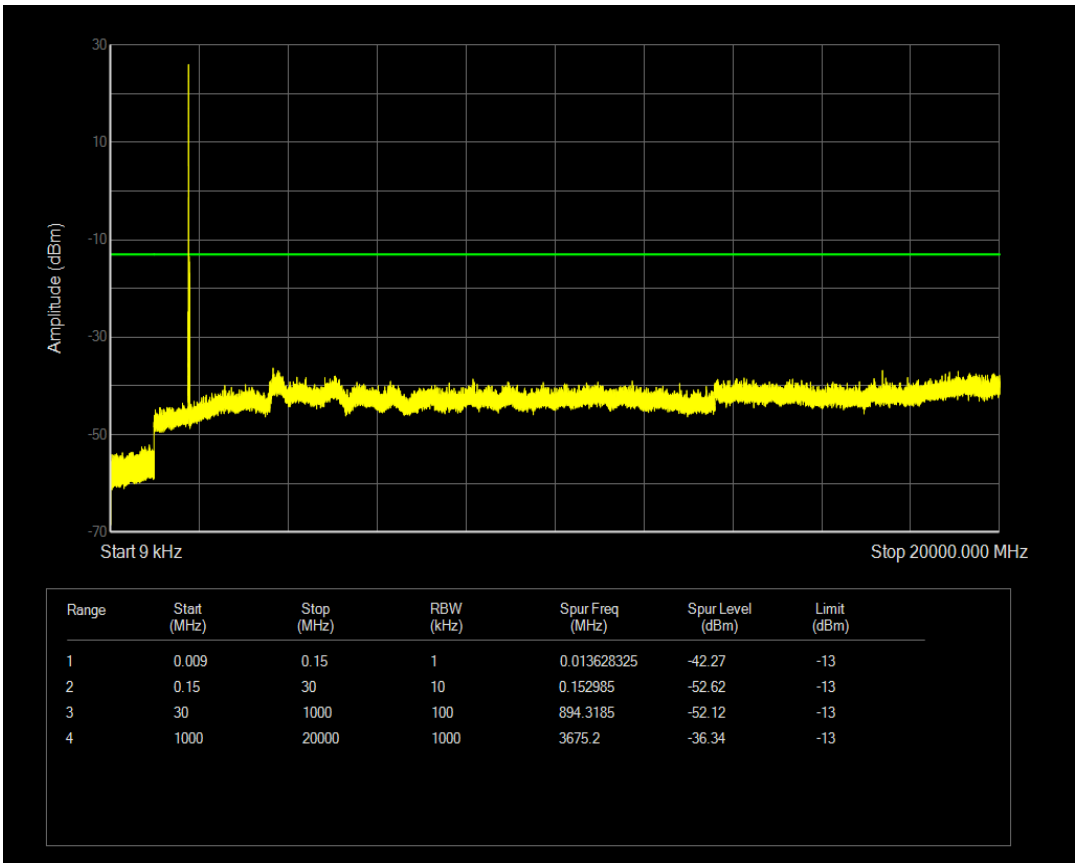
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009440625	-42.57	-13
2	0.15	30	10	0.16119375	-53.43	-13
3	30	1000	100	806.582	-53.04	-13
4	1000	20000	1000	19884.1	-36.64	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=355500 RB=25@0



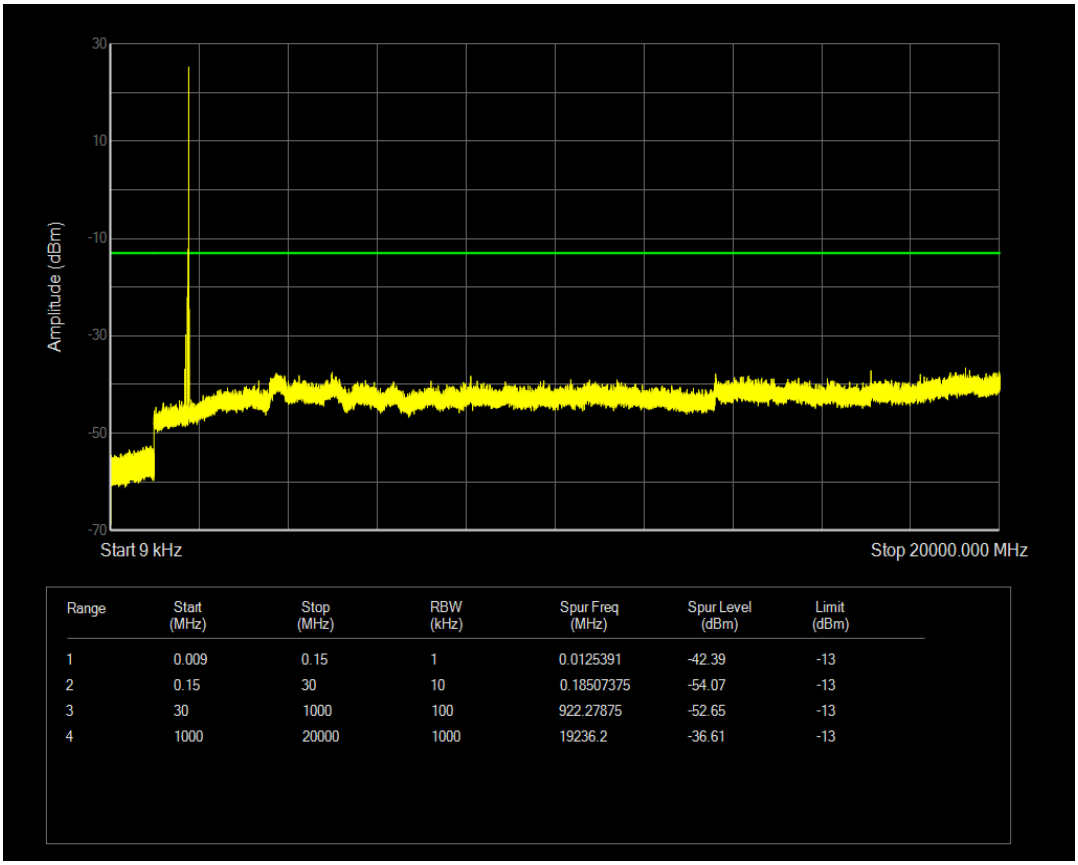
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0109317	-42.55	-13
2	0.15	30	10	0.15	-51.09	-13
3	30	1000	100	903.6305	-52.65	-13
4	1000	20000	1000	5072.175	-36.77	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=355500 RB=1@0



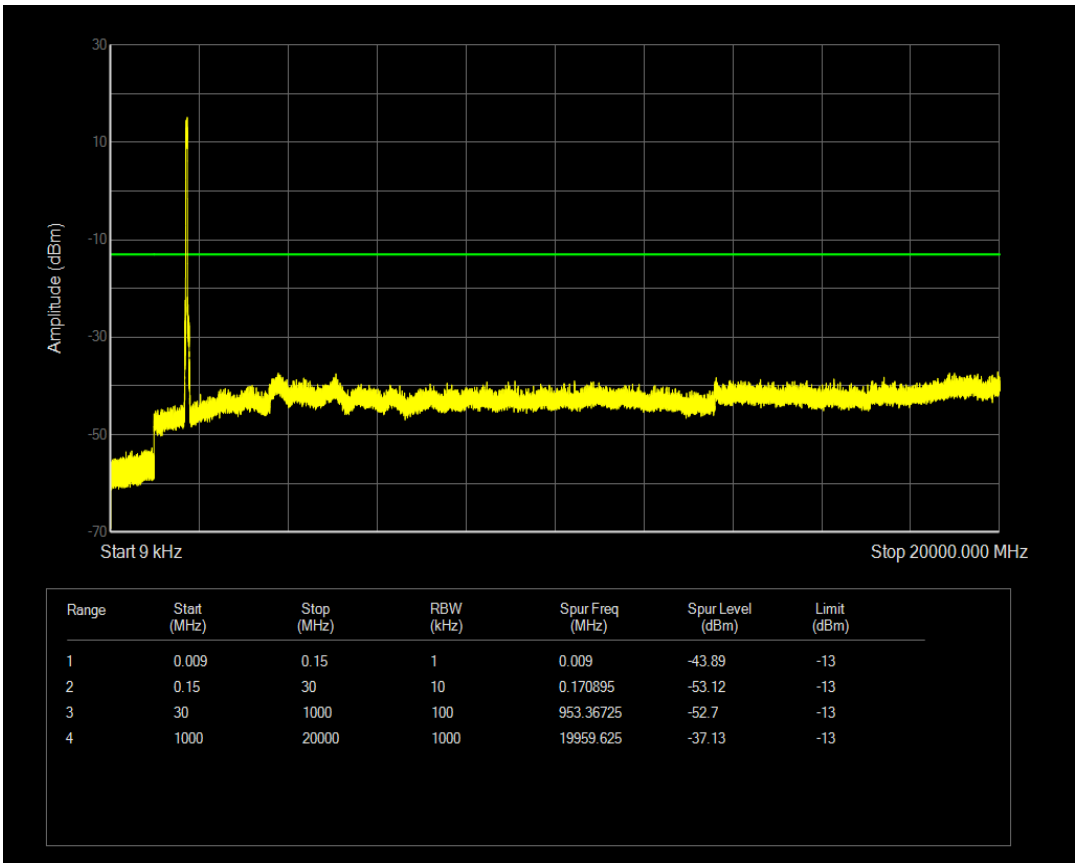
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013628325	-42.27	-13
2	0.15	30	10	0.152985	-52.62	-13
3	30	1000	100	894.3185	-52.12	-13
4	1000	20000	1000	3675.2	-36.34	-13

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=355500 RB=1@24



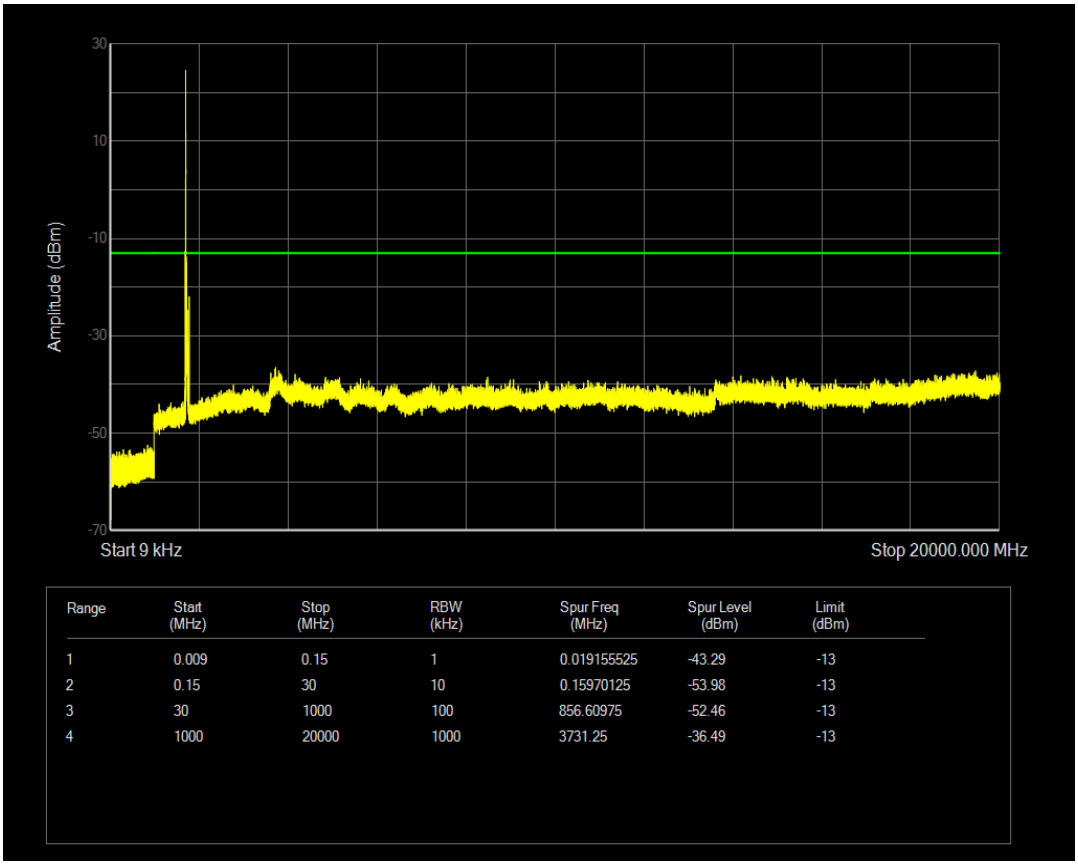
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0125391	-42.39	-13
2	0.15	30	10	0.18507375	-54.07	-13
3	30	1000	100	922.27875	-52.65	-13
4	1000	20000	1000	19236.2	-36.61	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=346000 RB=216@0



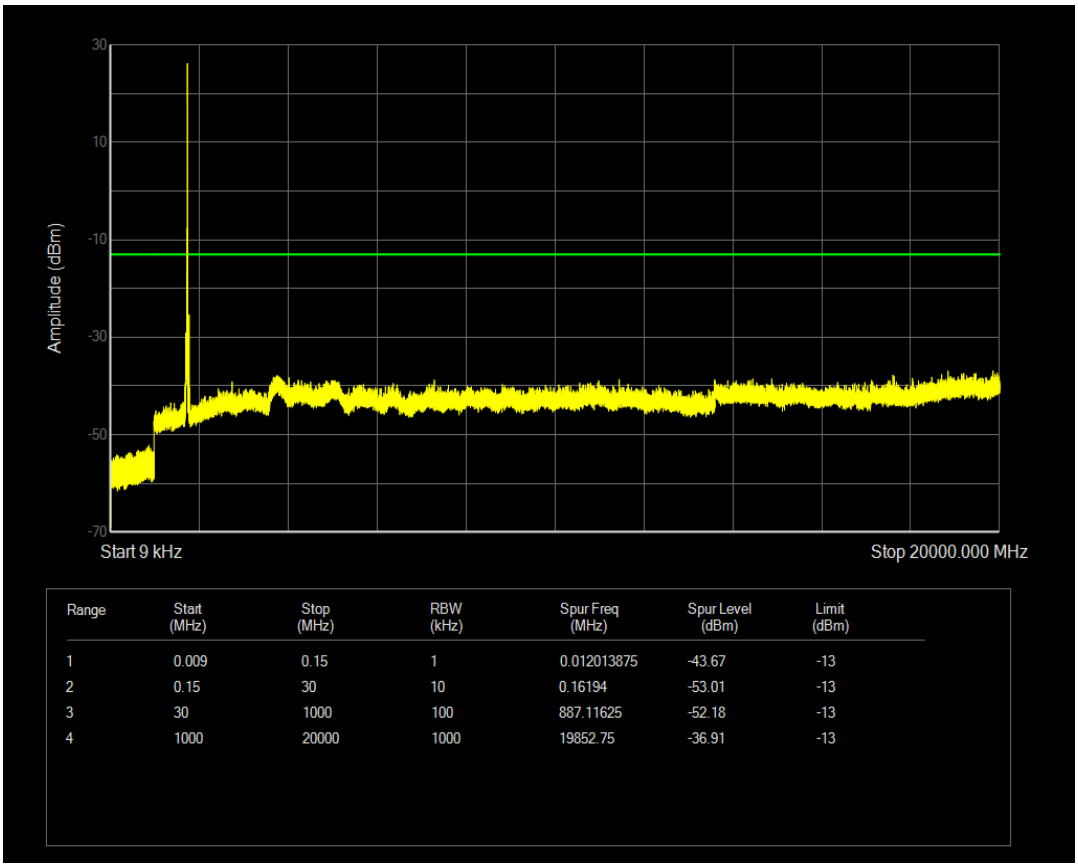
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-43.89	-13
2	0.15	30	10	0.170895	-53.12	-13
3	30	1000	100	953.36725	-52.7	-13
4	1000	20000	1000	19959.625	-37.13	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=346000 RB=1@0



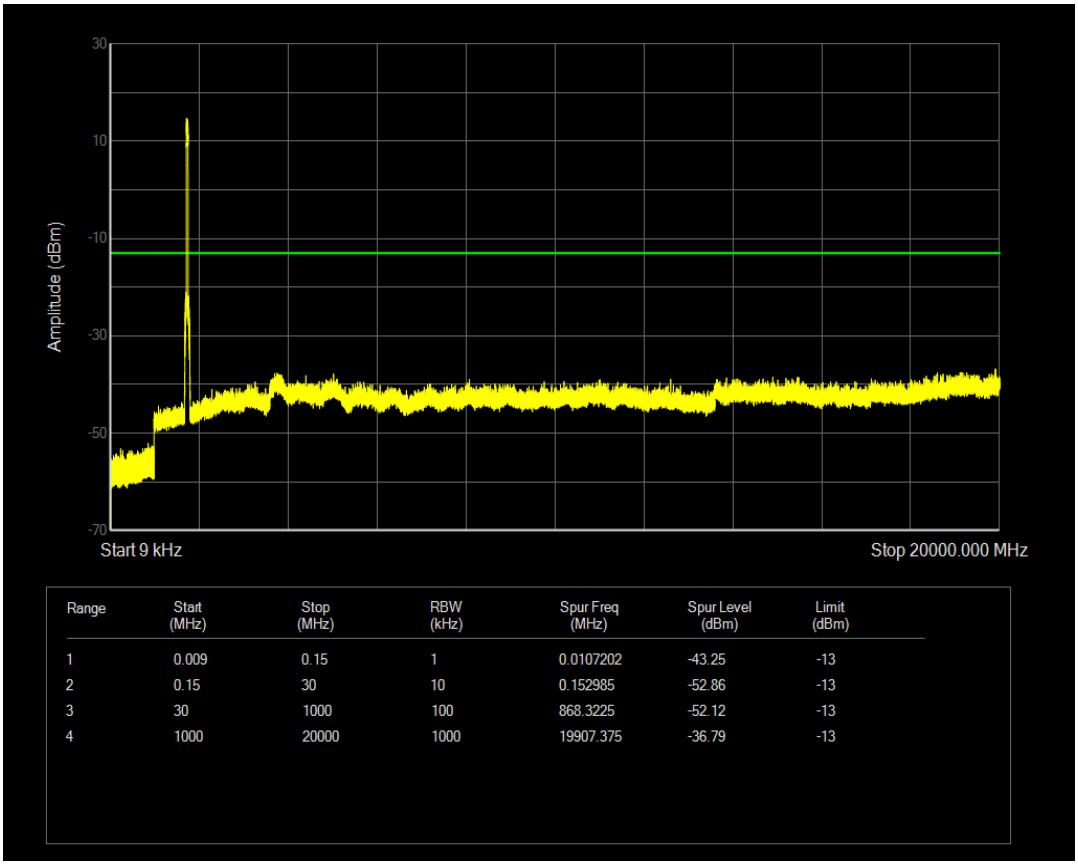
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.019155525	-43.29	-13
2	0.15	30	10	0.15970125	-53.98	-13
3	30	1000	100	856.60975	-52.46	-13
4	1000	20000	1000	3731.25	-36.49	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=346000 RB=1@215



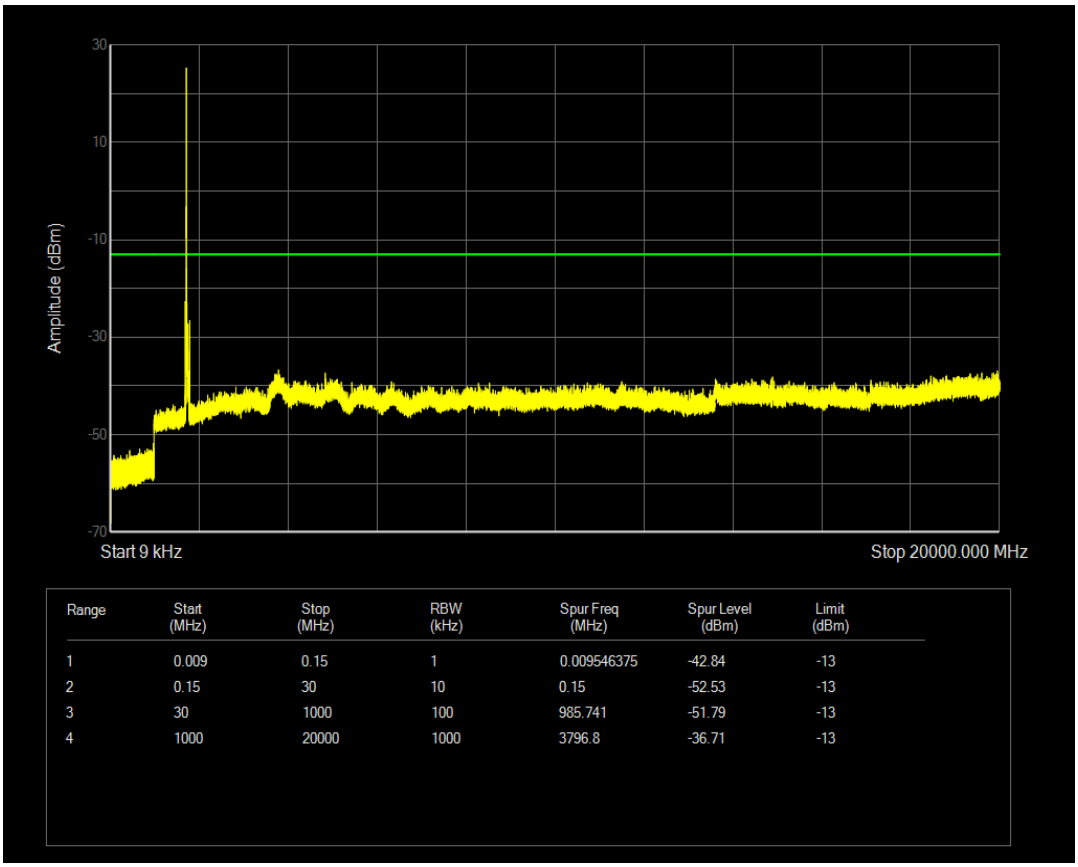
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012013875	-43.67	-13
2	0.15	30	10	0.16194	-53.01	-13
3	30	1000	100	887.11625	-52.18	-13
4	1000	20000	1000	19852.75	-36.91	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=349000 RB=216@0



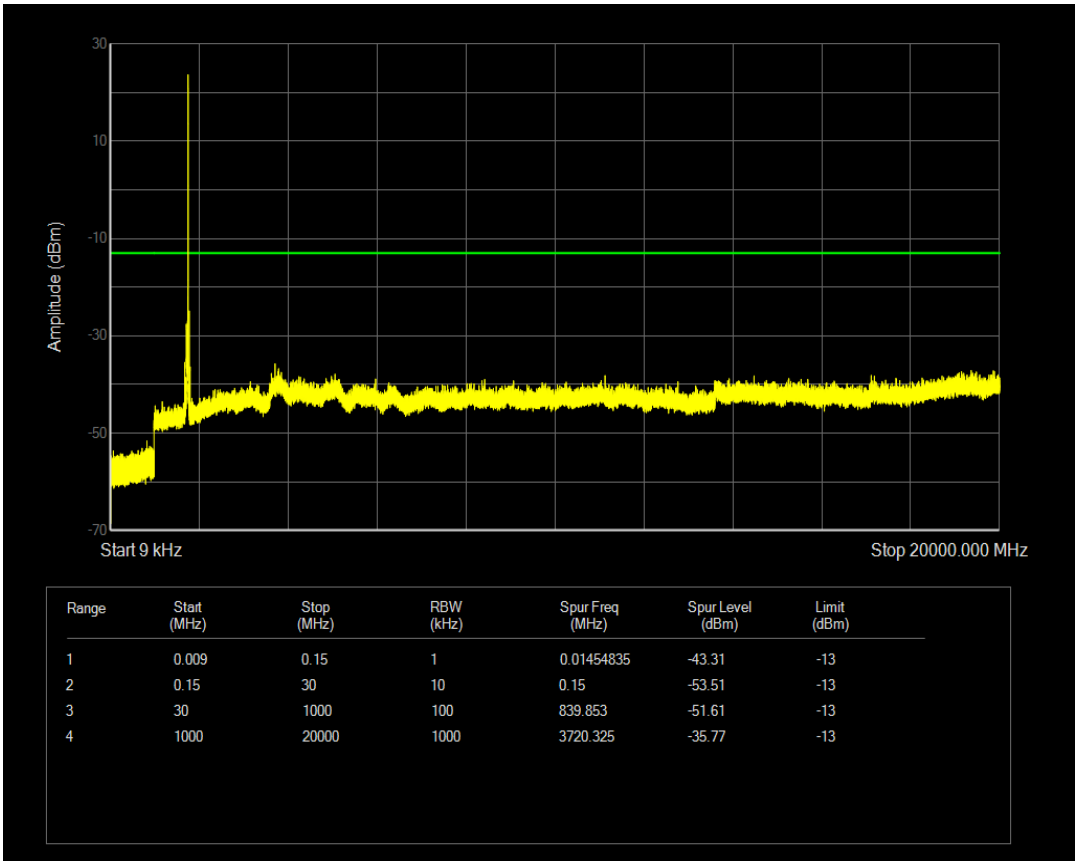
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0107202	-43.25	-13
2	0.15	30	10	0.152985	-52.86	-13
3	30	1000	100	868.3225	-52.12	-13
4	1000	20000	1000	19907.375	-36.79	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=349000 RB=1@0



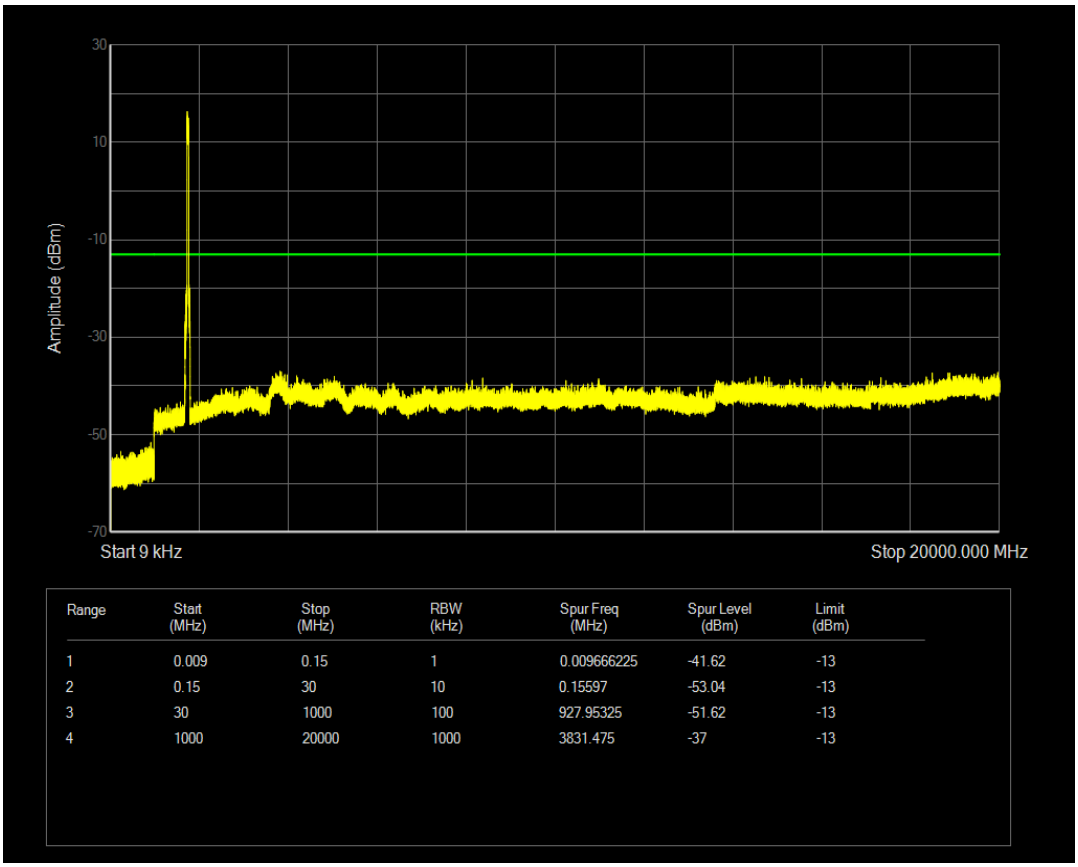
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009546375	-42.84	-13
2	0.15	30	10	0.15	-52.53	-13
3	30	1000	100	985.741	-51.79	-13
4	1000	20000	1000	3796.8	-36.71	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=349000 RB=1@215



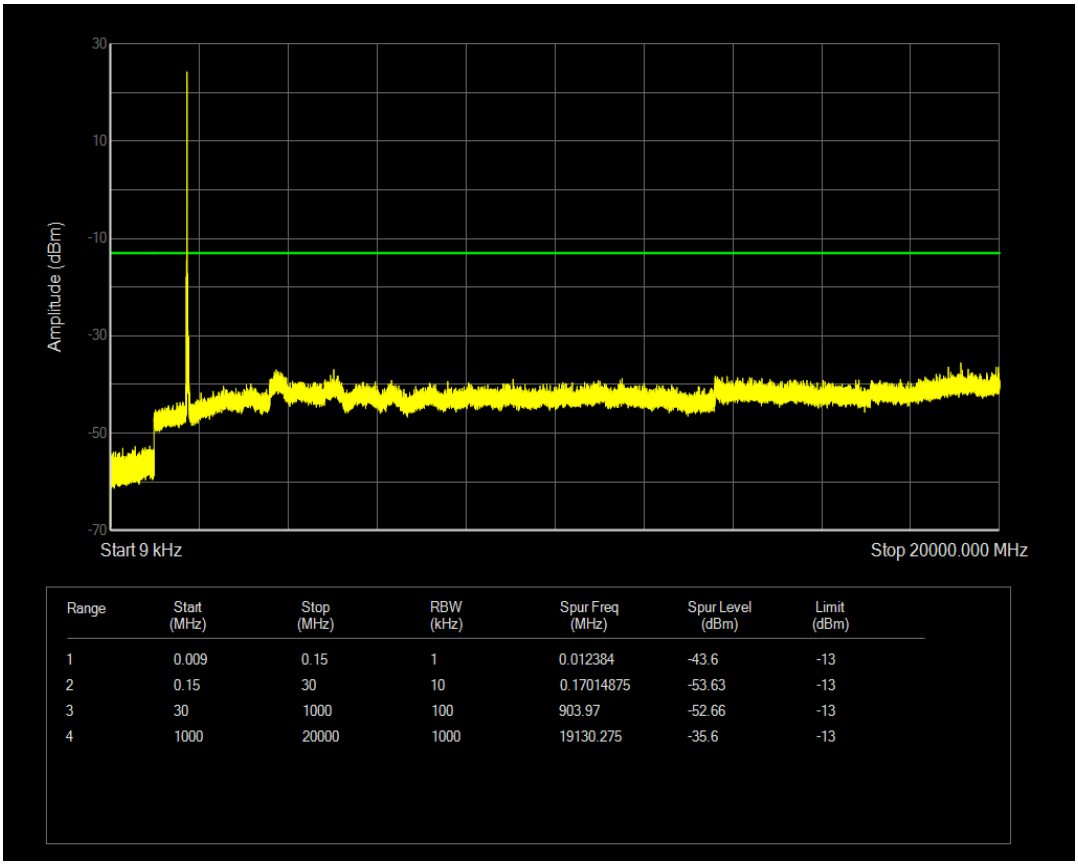
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01454835	-43.31	-13
2	0.15	30	10	0.15	-53.51	-13
3	30	1000	100	839.853	-51.61	-13
4	1000	20000	1000	3720.325	-35.77	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=352000 RB=216@0



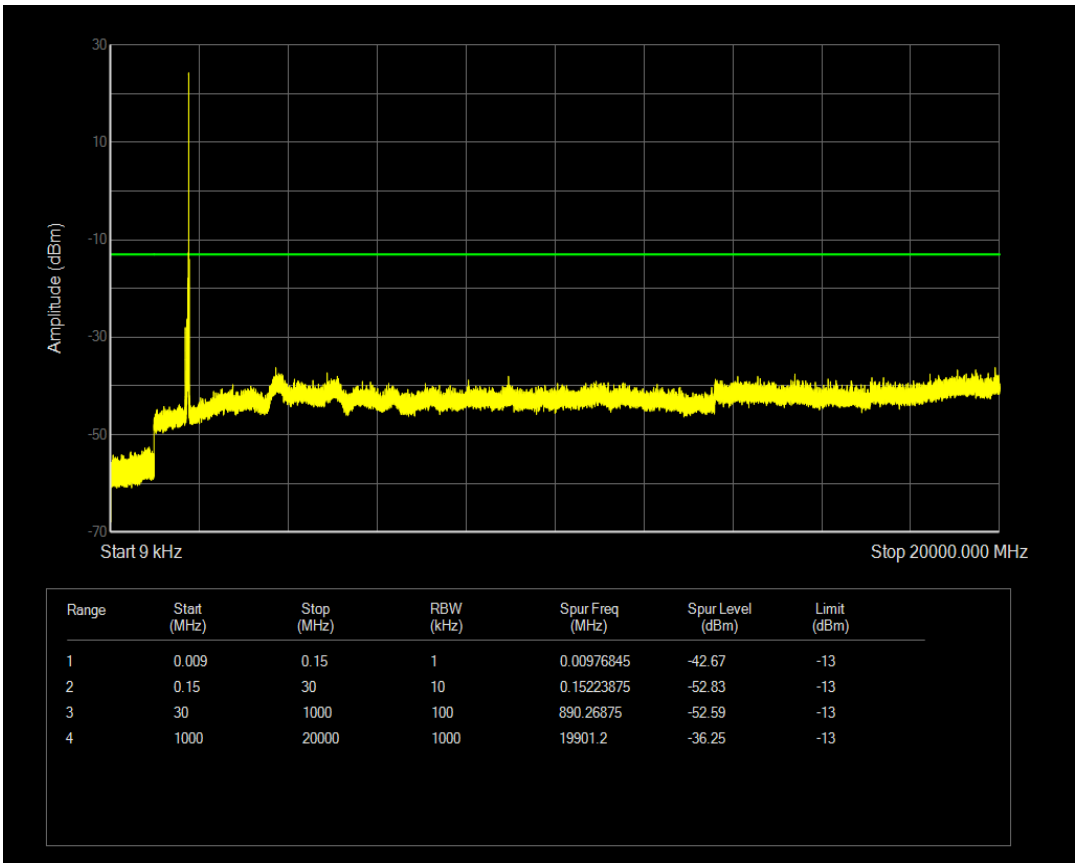
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009666225	-41.62	-13
2	0.15	30	10	0.15597	-53.04	-13
3	30	1000	100	927.95325	-51.62	-13
4	1000	20000	1000	3831.475	-37	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=352000 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012384	-43.6	-13
2	0.15	30	10	0.17014875	-53.63	-13
3	30	1000	100	903.97	-52.66	-13
4	1000	20000	1000	19130.275	-35.6	-13

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=352000 RB=1@215



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00976845	-42.67	-13
2	0.15	30	10	0.15223875	-52.83	-13
3	30	1000	100	890.26875	-52.59	-13
4	1000	20000	1000	19901.2	-36.25	-13