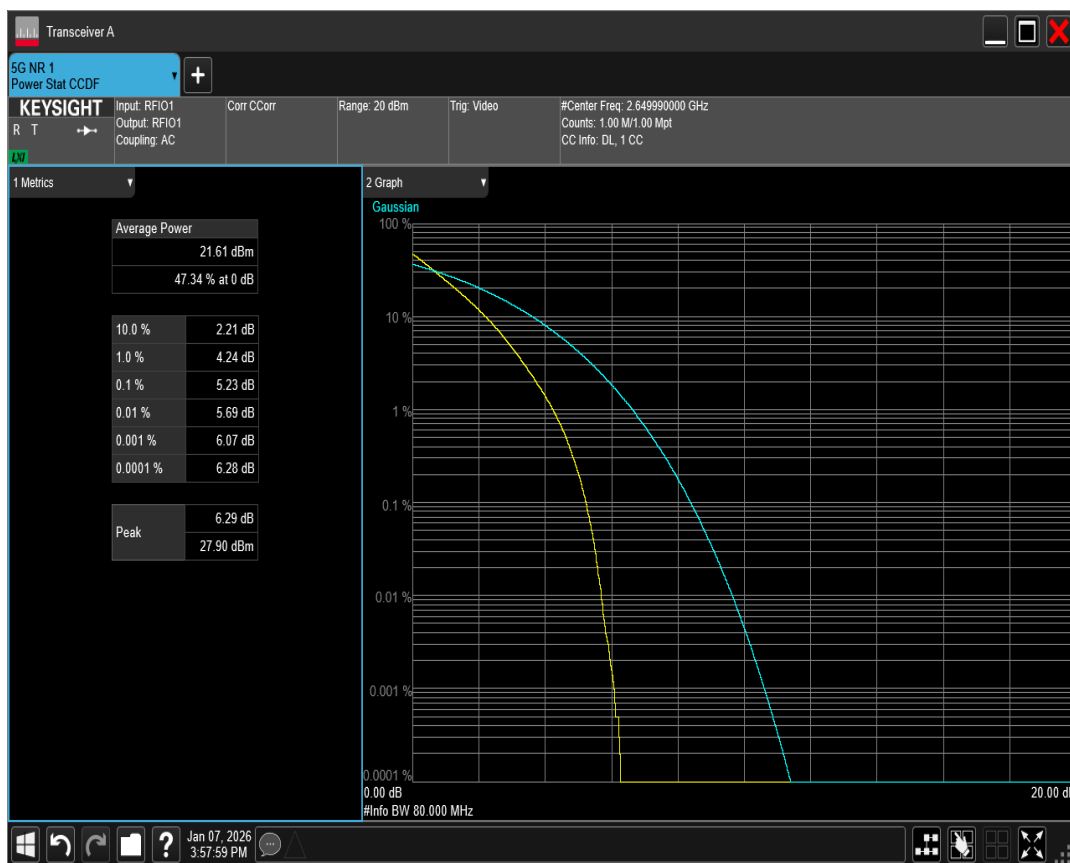
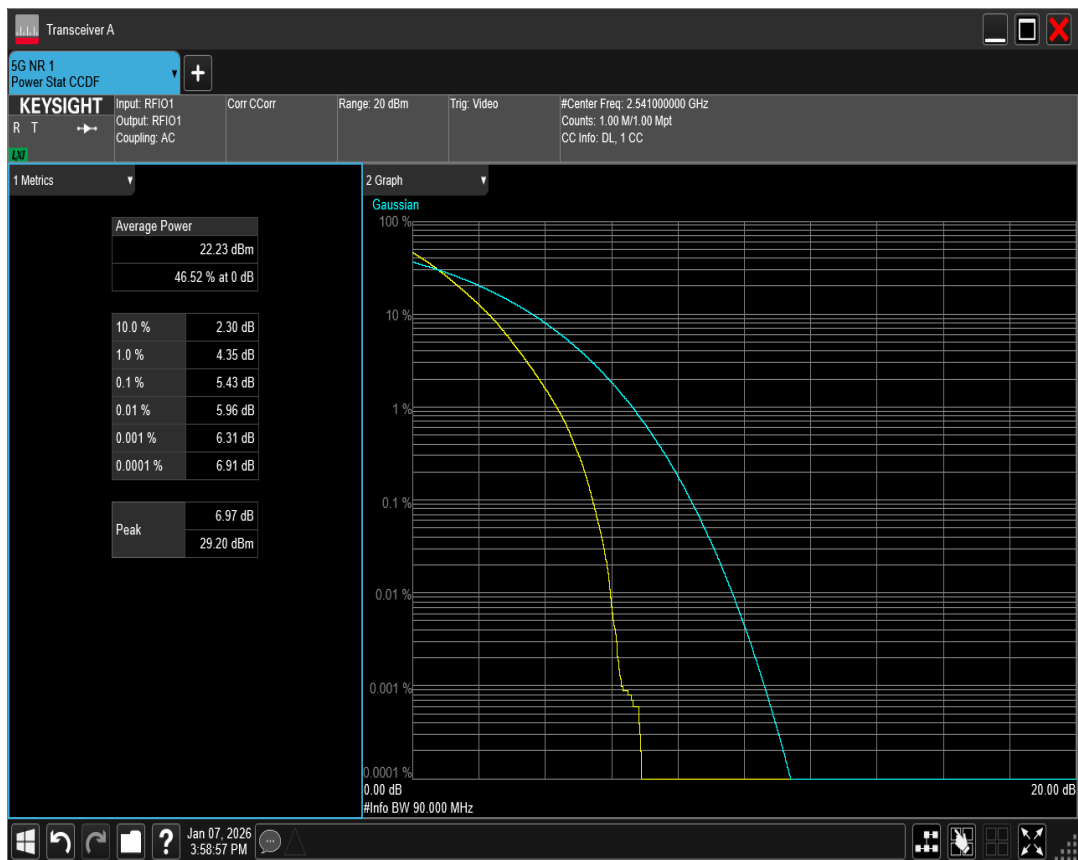
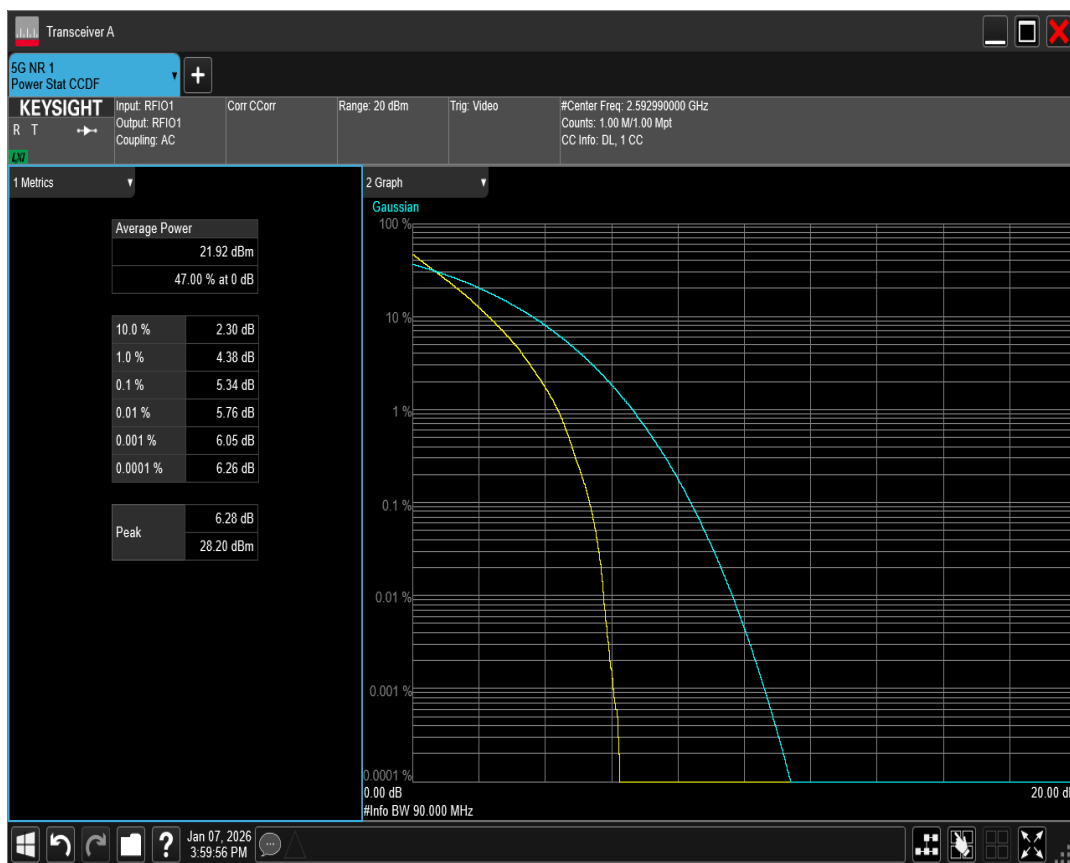




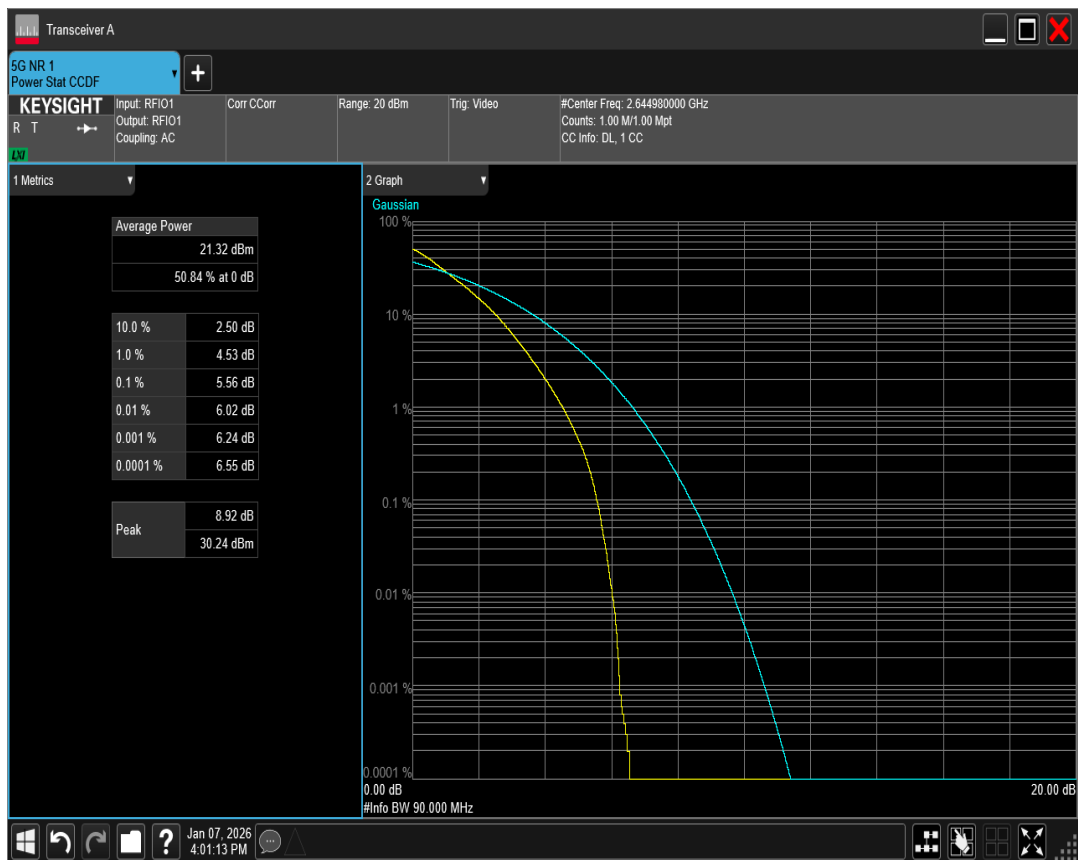
n41 SCS=30kHz DFT_QPSK BW=90MHz Channel=508200 RB=240@0



n41 SCS=30kHz DFT_QPSK BW=90MHz Channel=518598 RB=240@0



n41 SCS=30kHz DFT_QPSK BW=90MHz Channel=528996 RB=240@0



4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n41	30	20	518598	50@0	DFT_BPSK	18.170	18.200	PASS
n41	30	20	518598	50@0	DFT_QPSK	18.090	18.260	PASS
n41	30	20	518598	50@0	DFT_QAM16	18.060	18.260	PASS
n41	30	20	518598	50@0	DFT_QAM64	18.080	18.270	PASS
n41	30	20	518598	50@0	DFT_QAM256	17.950	18.230	PASS
n41	30	40	518598	100@0	DFT_BPSK	37.560	36.350	PASS
n41	30	40	518598	100@0	DFT_QPSK	37.560	36.450	PASS
n41	30	40	518598	100@0	DFT_QAM16	37.400	36.350	PASS
n41	30	40	518598	100@0	DFT_QAM64	37.510	36.420	PASS
n41	30	40	518598	100@0	DFT_QAM256	37.390	36.270	PASS
n41	30	50	518598	128@0	DFT_BPSK	47.140	46.360	PASS
n41	30	50	518598	128@0	DFT_QPSK	46.940	46.330	PASS
n41	30	50	518598	128@0	DFT_QAM16	47.010	46.250	PASS
n41	30	50	518598	128@0	DFT_QAM64	47.080	46.430	PASS
n41	30	50	518598	128@0	DFT_QAM256	47.090	46.310	PASS
n41	30	60	518598	162@0	DFT_BPSK	57.770	58.590	PASS
n41	30	60	518598	162@0	DFT_QPSK	57.840	58.640	PASS
n41	30	60	518598	162@0	DFT_QAM16	57.710	58.730	PASS
n41	30	60	518598	162@0	DFT_QAM64	57.680	58.600	PASS
n41	30	60	518598	162@0	DFT_QAM256	57.760	58.560	PASS
n41	30	80	518598	216@0	DFT_BPSK	77.040	78.130	PASS
n41	30	80	518598	216@0	DFT_QPSK	76.940	78.150	PASS
n41	30	80	518598	216@0	DFT_QAM16	76.930	78.040	PASS
n41	30	80	518598	216@0	DFT_QAM64	76.910	78.180	PASS
n41	30	80	518598	216@0	DFT_QAM256	76.960	78.150	PASS
n41	30	90	518598	240@0	DFT_BPSK	86.680	86.710	PASS
n41	30	90	518598	240@0	DFT_QPSK	86.660	86.720	PASS
n41	30	90	518598	240@0	DFT_QAM16	86.570	86.750	PASS
n41	30	90	518598	240@0	DFT_QAM64	86.460	86.810	PASS
n41	30	90	518598	240@0	DFT_QAM256	86.570	86.740	PASS
n41	30	100	518598	270@0	DFT_BPSK	96.550	97.510	PASS
n41	30	100	518598	270@0	DFT_QPSK	96.540	97.570	PASS
n41	30	100	518598	270@0	DFT_QAM16	96.440	97.590	PASS
n41	30	100	518598	270@0	DFT_QAM64	96.560	97.570	PASS
n41	30	100	518598	270@0	DFT_QAM256	96.550	97.500	PASS

n41 SCS=30kHz DFT_BPSK BW=100MHz Channel=518598 RB=270@0



n41 SCS=30kHz DFT_BPSK BW=20MHz Channel=518598 RB=50@0



n41 SCS=30kHz DFT_BPSK BW=40MHz Channel=518598 RB=100@0



n41 SCS=30kHz DFT_BPSK BW=50MHz Channel=518598 RB=128@0



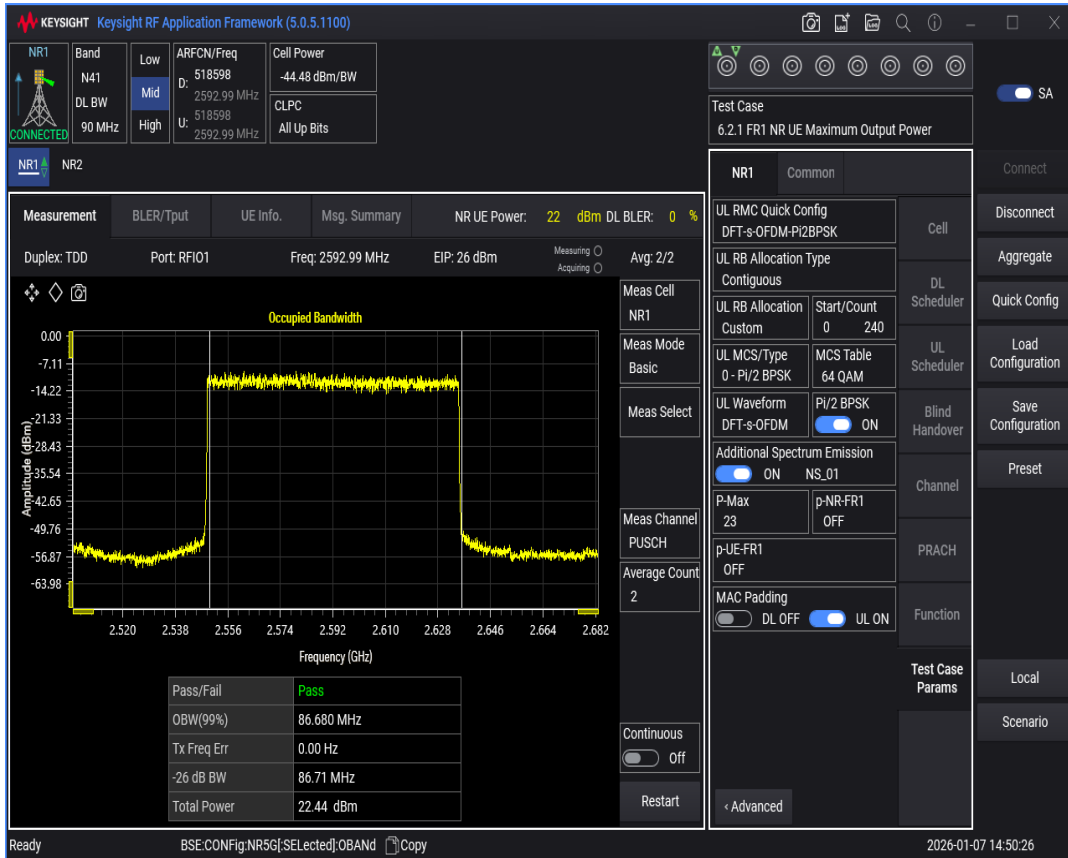
n41 SCS=30kHz DFT_BPSK BW=60MHz Channel=518598 RB=162@0



n41 SCS=30kHz DFT_BPSK BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_BPSK BW=90MHz Channel=518598 RB=240@0



n41 SCS=30kHz DFT_QAM16 BW=100MHz Channel=518598 RB=270@0



n41 SCS=30kHz DFT_QAM16 BW=20MHz Channel=518598 RB=50@0



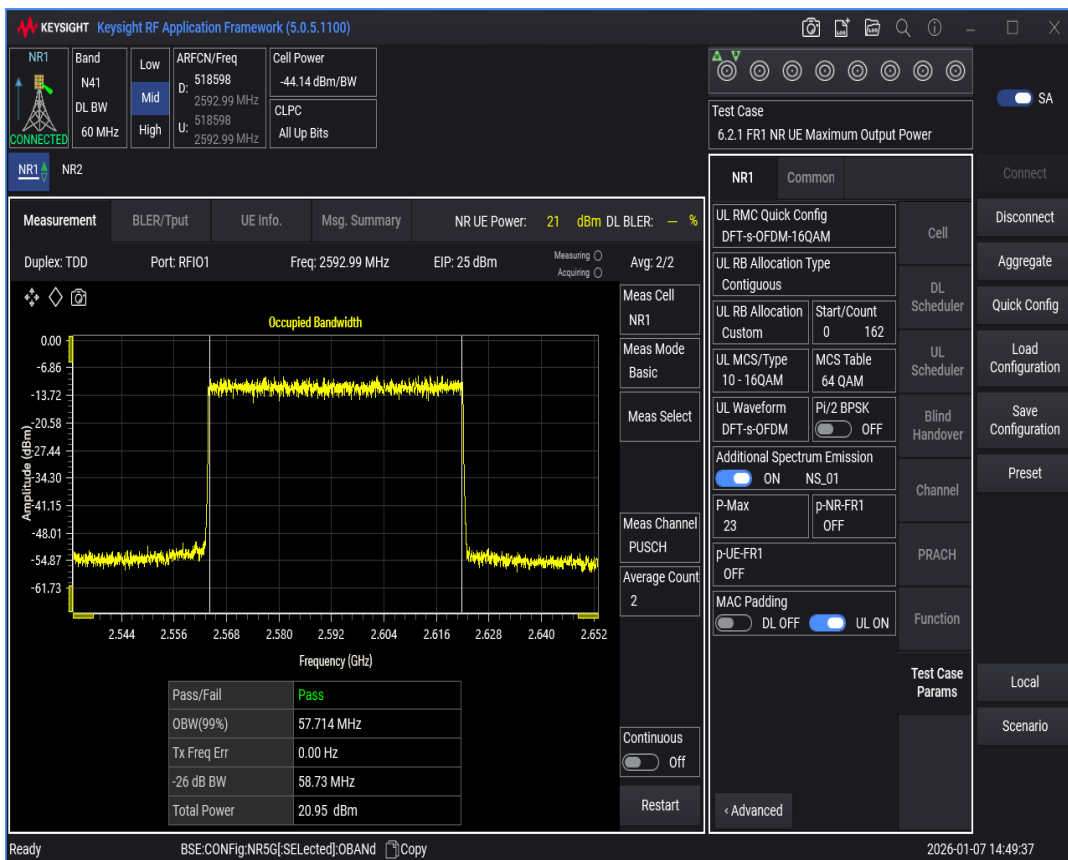
n41 SCS=30kHz DFT_QAM16 BW=40MHz Channel=518598 RB=100@0



n41 SCS=30kHz DFT_QAM16 BW=50MHz Channel=518598 RB=128@0



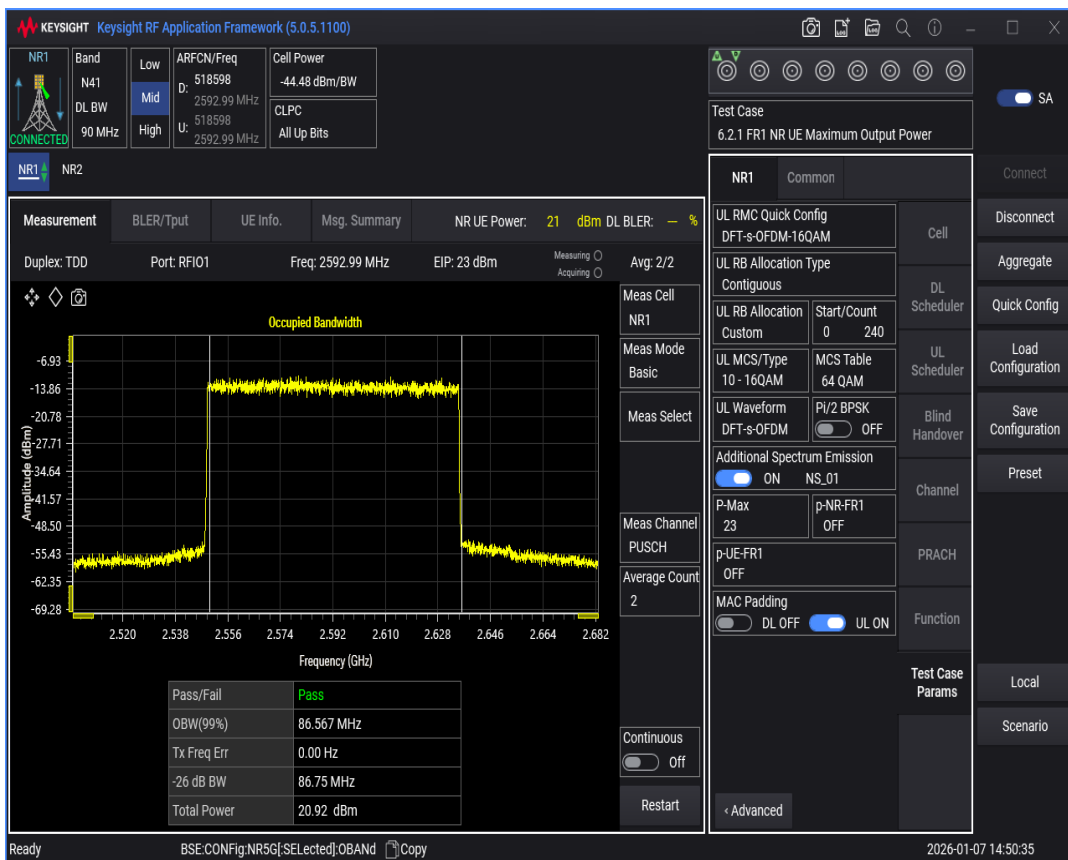
n41 SCS=30kHz DFT_QAM16 BW=60MHz Channel=518598 RB=162@0



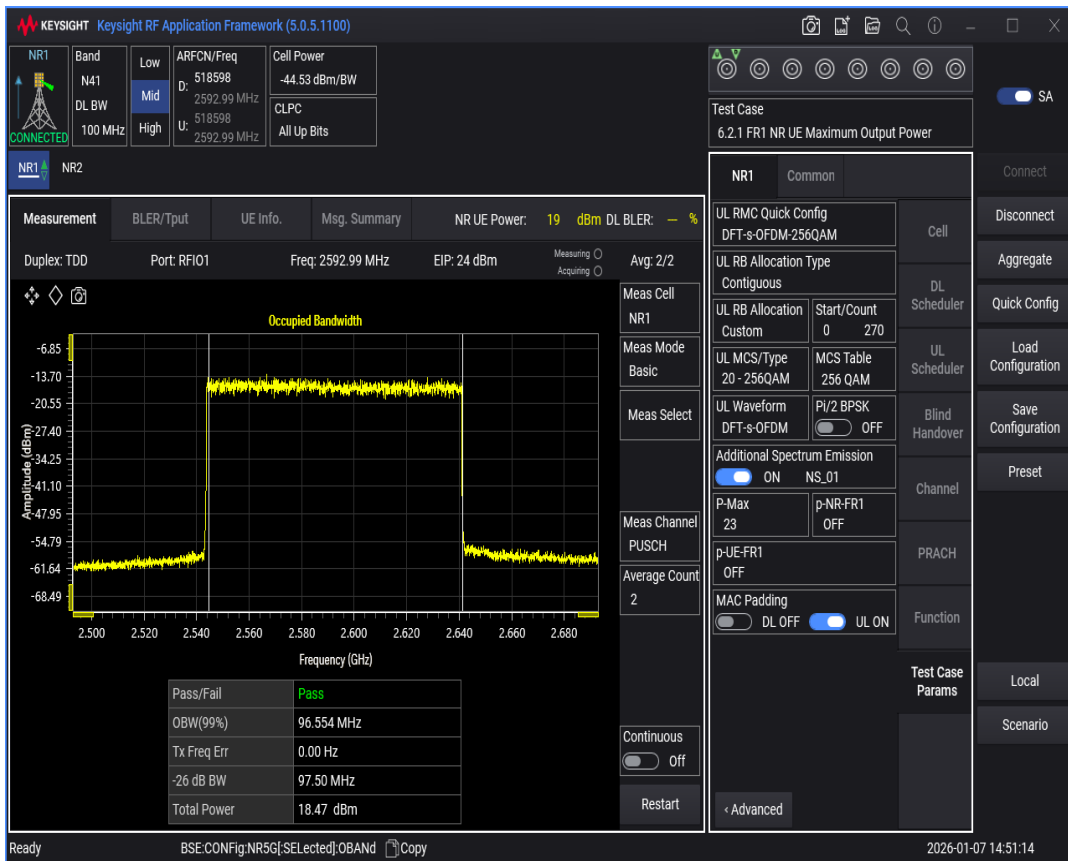
n41 SCS=30kHz DFT_QAM16 BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_QAM16 BW=90MHz Channel=518598 RB=240@0



n41 SCS=30kHz DFT_QAM256 BW=100MHz Channel=518598 RB=270@0



n41 SCS=30kHz DFT_QAM256 BW=20MHz Channel=518598 RB=50@0



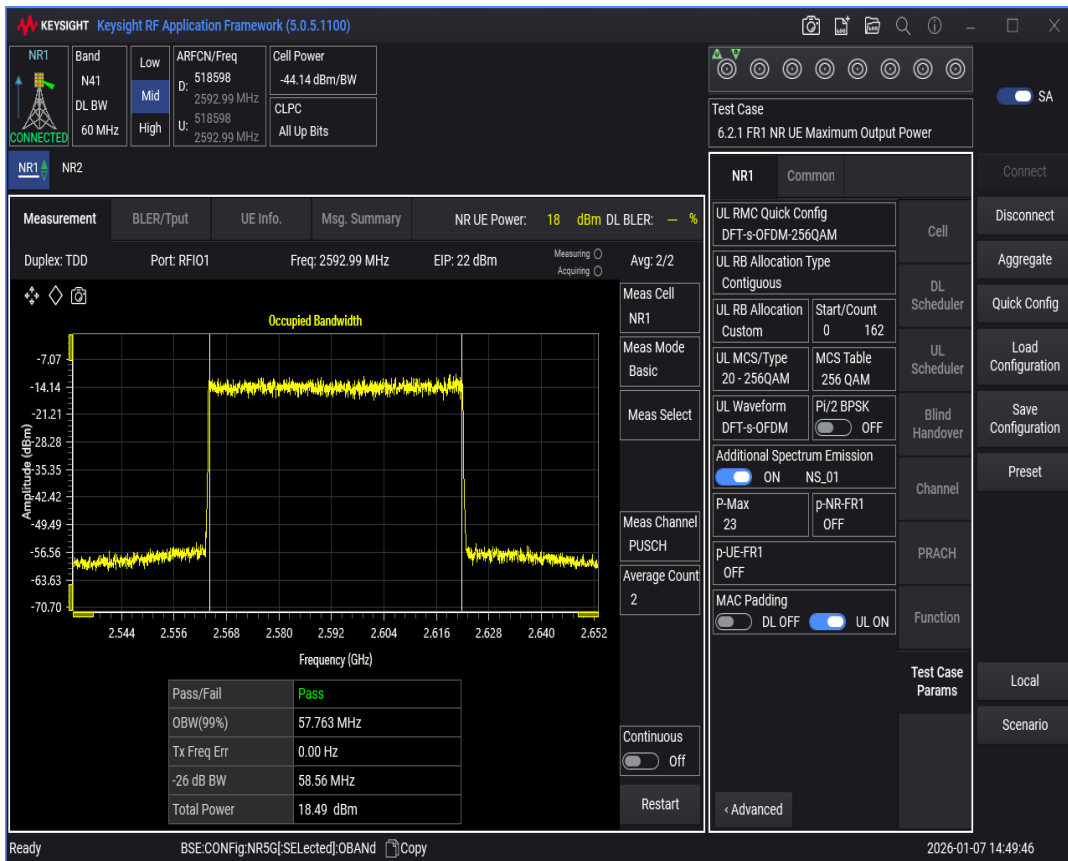
n41 SCS=30kHz DFT_QAM256 BW=40MHz Channel=518598 RB=100@0



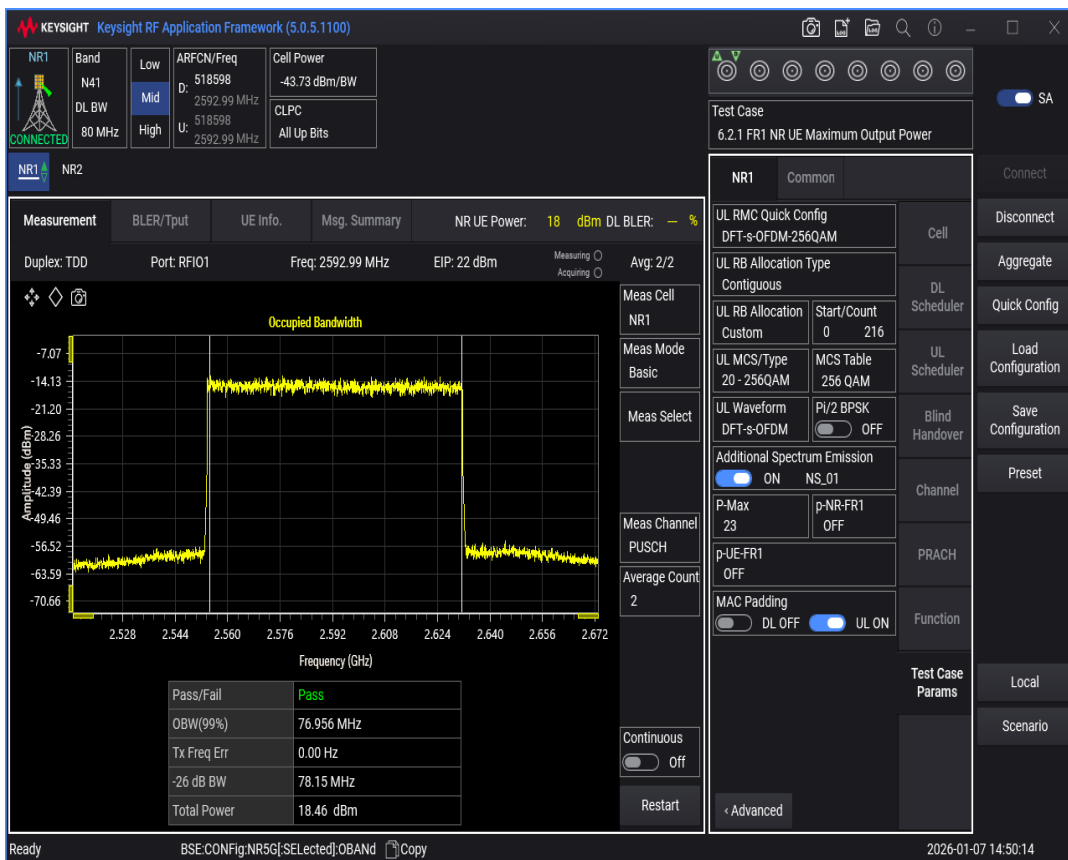
n41 SCS=30kHz DFT_QAM256 BW=50MHz Channel=518598 RB=128@0



n41 SCS=30kHz DFT_QAM256 BW=60MHz Channel=518598 RB=162@0



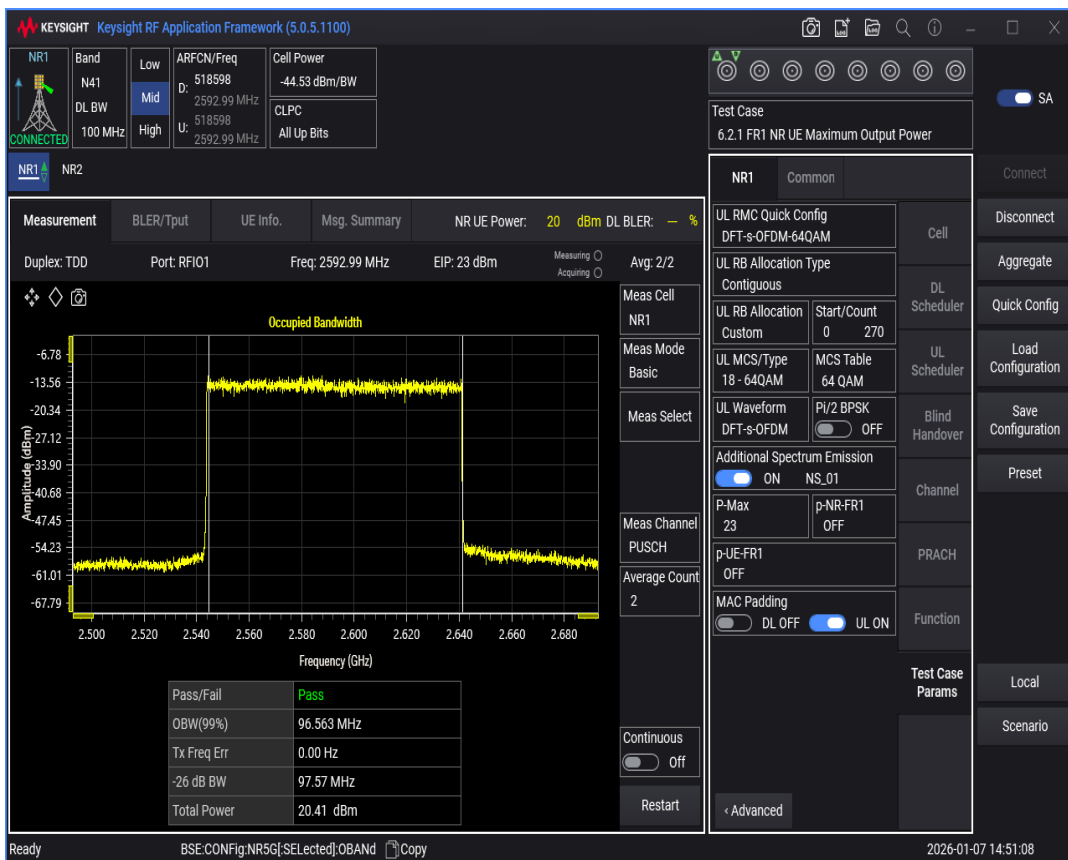
n41 SCS=30kHz DFT_QAM256 BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_QAM256 BW=90MHz Channel=518598 RB=240@0



n41 SCS=30kHz DFT_QAM64 BW=100MHz Channel=518598 RB=270@0



n41 SCS=30kHz DFT_QAM64 BW=20MHz Channel=518598 RB=50@0



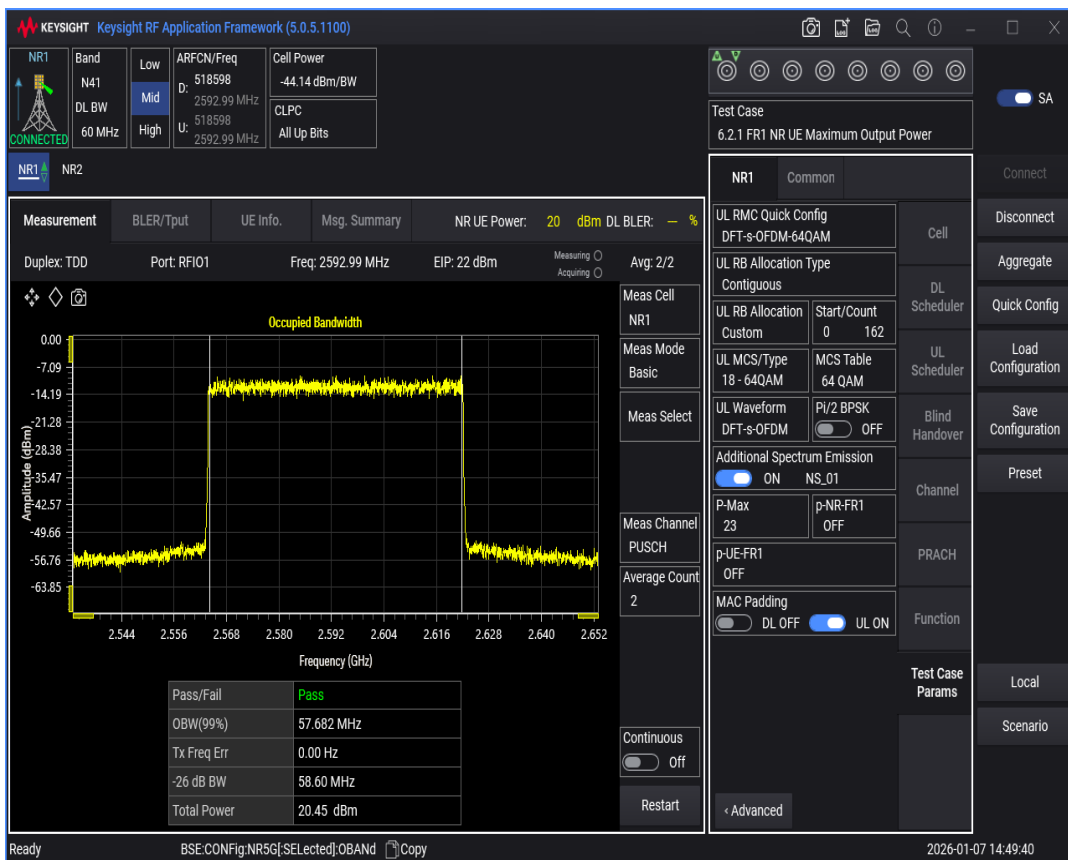
n41 SCS=30kHz DFT_QAM64 BW=40MHz Channel=518598 RB=100@0



n41 SCS=30kHz DFT_QAM64 BW=50MHz Channel=518598 RB=128@0



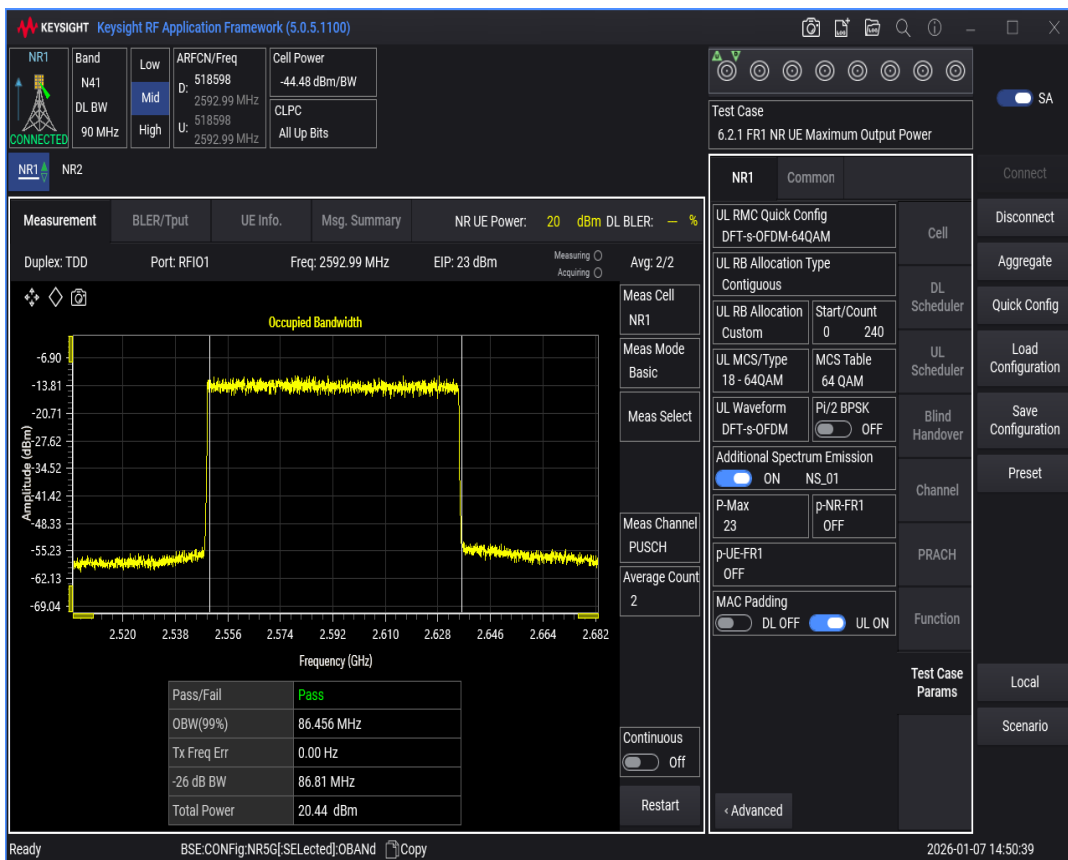
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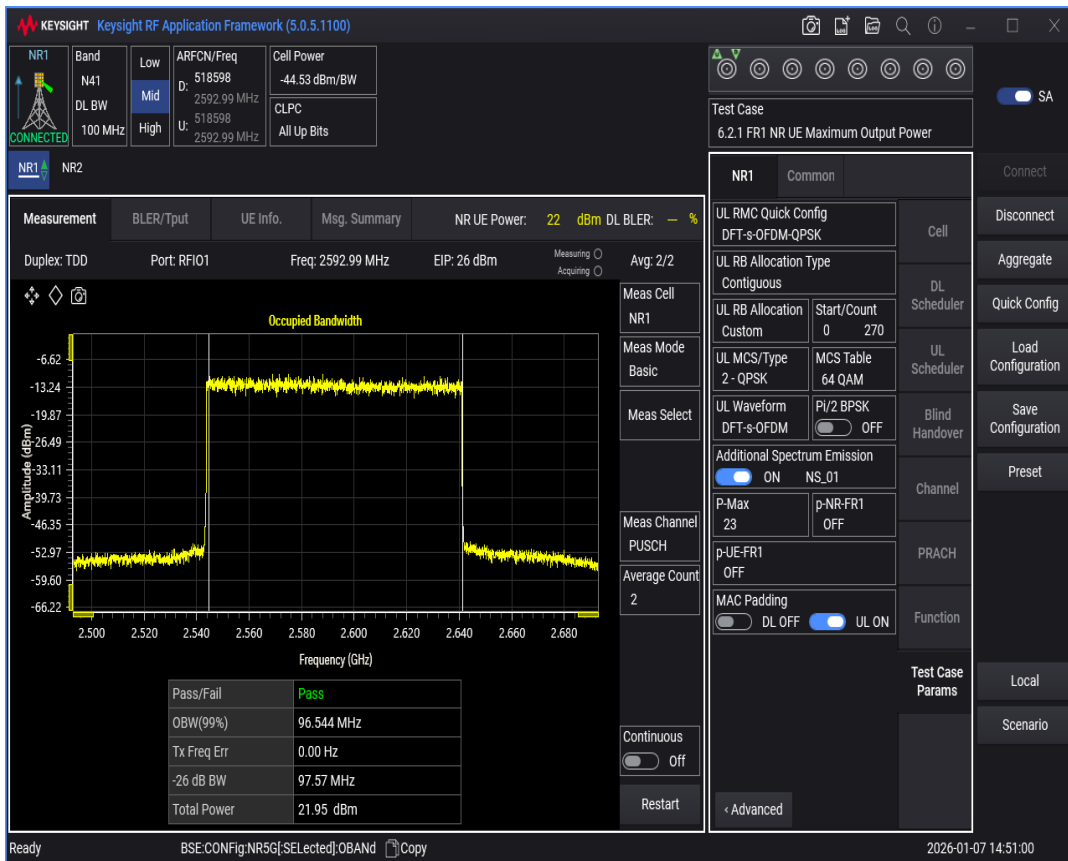
n41 SCS=30kHz DFT_QAM64 BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_QAM64 BW=90MHz Channel=518598 RB=240@0



n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=518598 RB=270@0



n41 SCS=30kHz DFT_QPSK BW=20MHz Channel=518598 RB=50@0



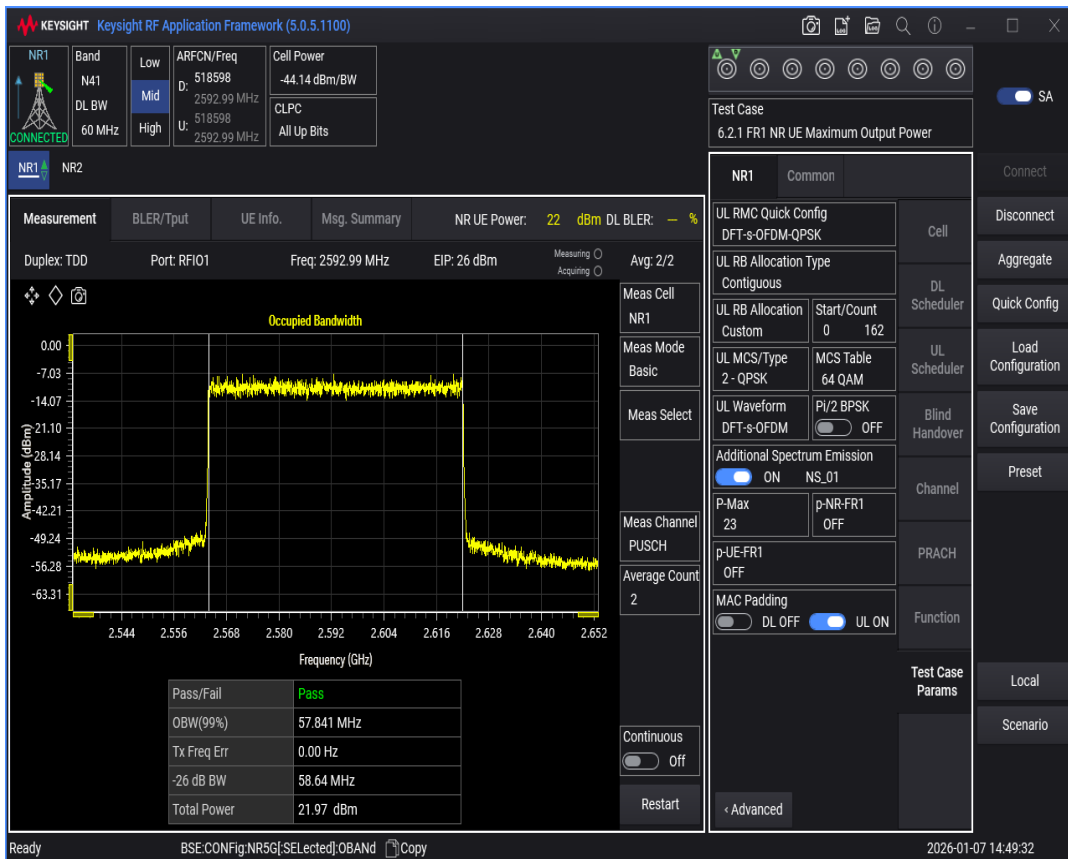
n41 SCS=30kHz DFT_QPSK BW=40MHz Channel=518598 RB=100@0



n41 SCS=30kHz DFT_QPSK BW=50MHz Channel=518598 RB=128@0



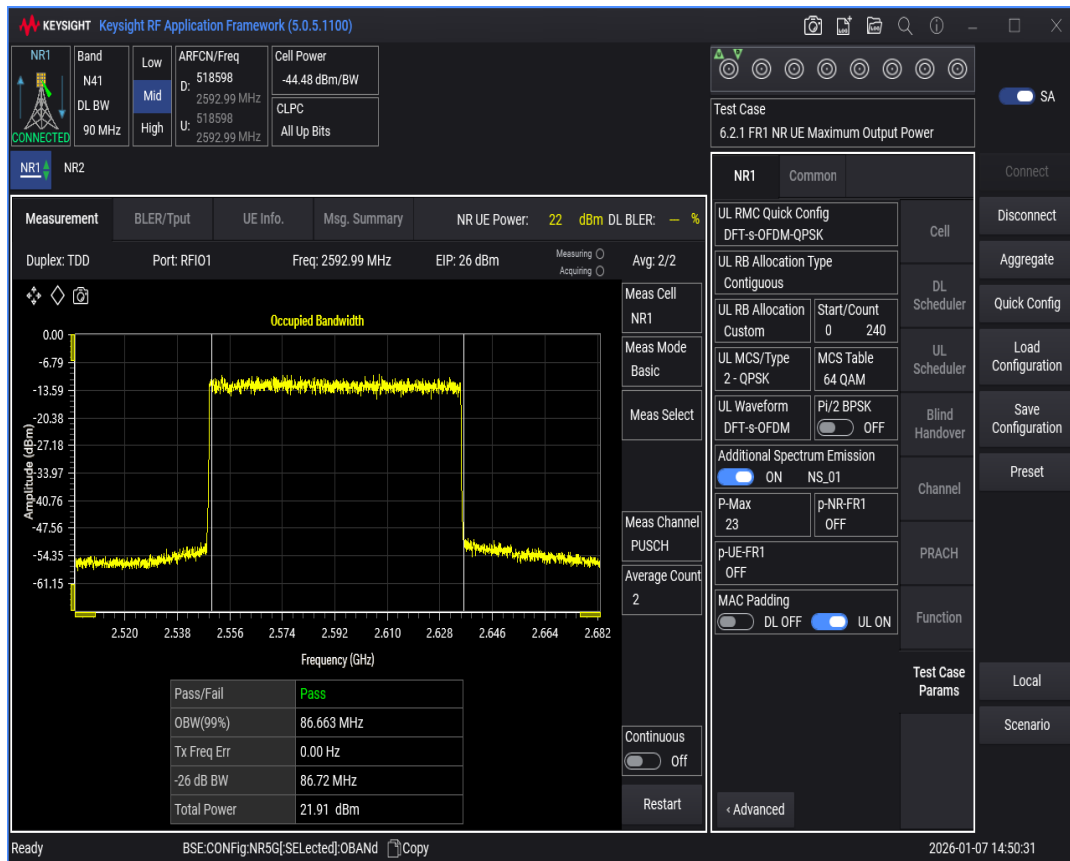
n41 SCS=30kHz DFT_QPSK BW=60MHz Channel=518598 RB=162@0



n41 SCS=30kHz DFT_QPSK BW=80MHz Channel=518598 RB=216@0



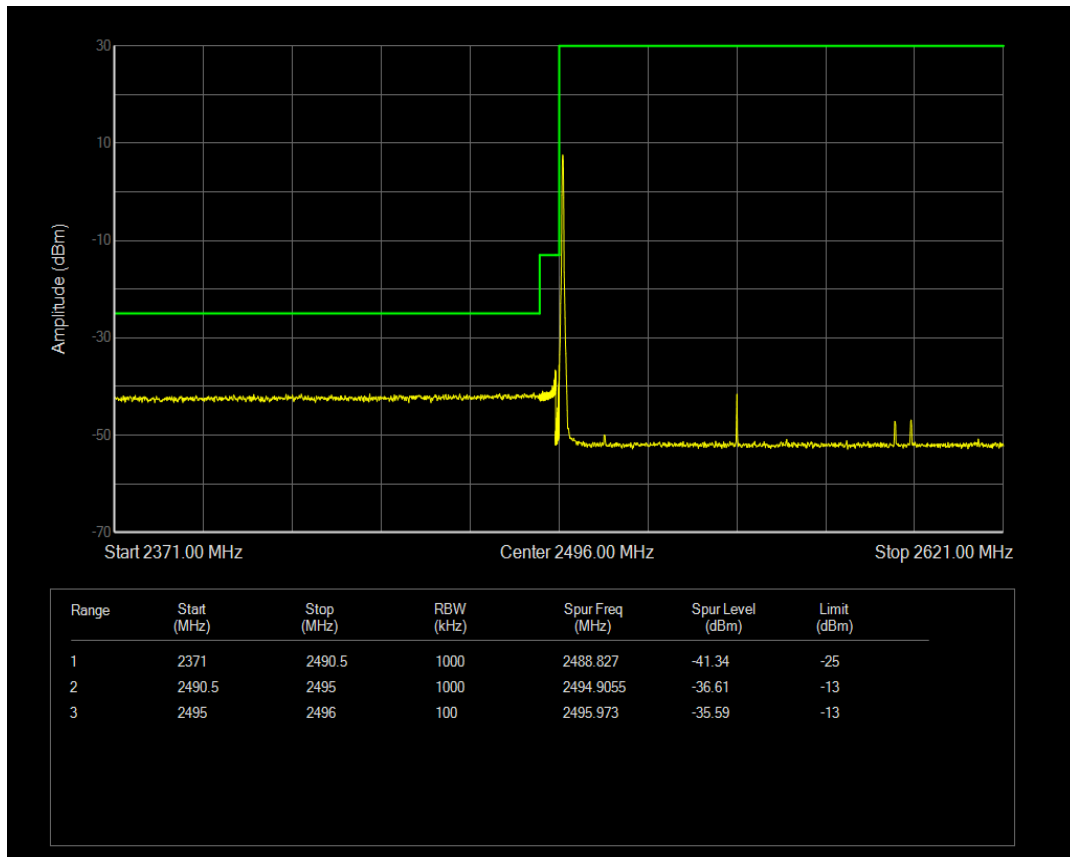
n41 SCS=30kHz DFT_QPSK BW=90MHz Channel=518598 RB=240@0

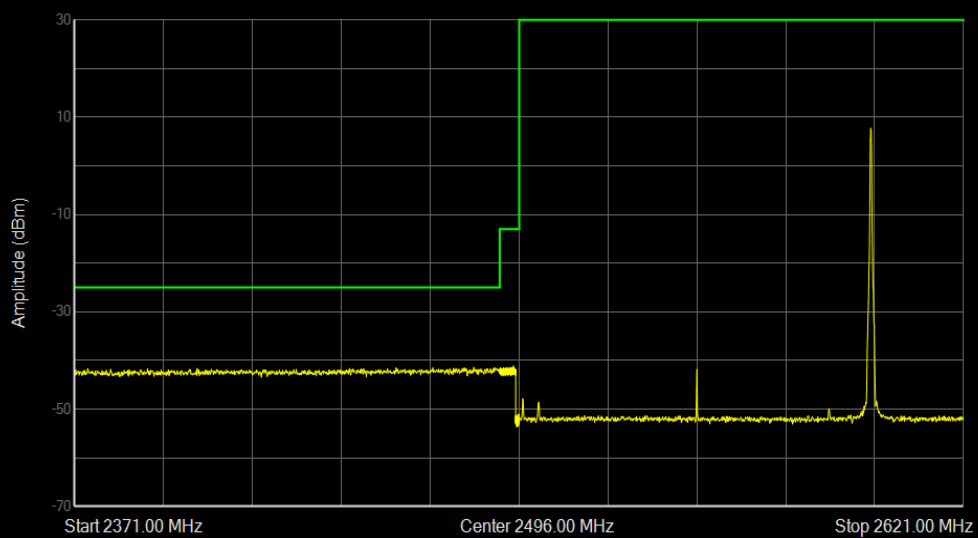


5 Band edge for NR FR1

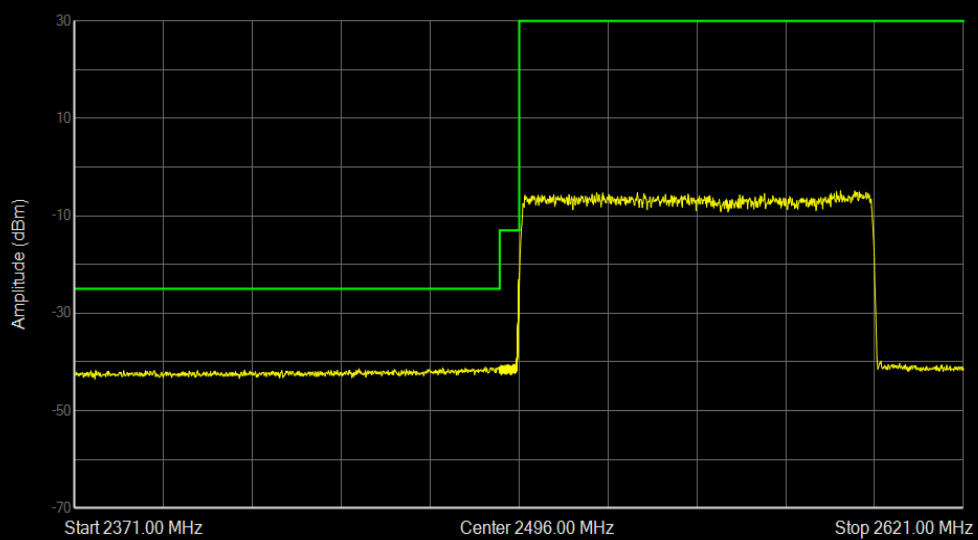
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	20	501204	51@0	CP_QPSK	2486.83	-38.93	-25	PASS
n41	30	20	501204	1@0	CP_QPSK	2487.71	-41.57	-25	PASS
n41	30	20	501204	1@50	CP_QPSK	2485.68	-40.93	-25	PASS
n41	30	20	535998	51@0	CP_QPSK	2711.78	-41.00	-25	PASS
n41	30	20	535998	1@0	CP_QPSK	2712.69	-41.19	-25	PASS
n41	30	20	535998	1@50	CP_QPSK	2713.39	-41.16	-25	PASS
n41	30	50	504204	133@0	CP_QPSK	2481.44	-40.20	-25	PASS
n41	30	50	504204	1@0	CP_QPSK	2484.63	-41.46	-25	PASS
n41	30	50	504204	1@132	CP_QPSK	2483.26	-41.28	-25	PASS
n41	30	50	532998	133@0	CP_QPSK	2751.63	-41.11	-25	PASS
n41	30	50	532998	1@0	CP_QPSK	2750.85	-41.23	-25	PASS
n41	30	50	532998	1@132	CP_QPSK	2749.43	-41.20	-25	PASS
n41	30	100	509202	273@0	CP_QPSK	2495.99	-21.77	-13	PASS
n41	30	100	509202	1@0	CP_QPSK	2488.83	-41.34	-25	PASS
n41	30	100	509202	1@272	CP_QPSK	2483.21	-41.39	-25	PASS
n41	30	100	528000	273@0	CP_QPSK	2690.00	-23.50	-10	PASS
n41	30	100	528000	1@0	CP_QPSK	2812.23	-41.29	-25	PASS
n41	30	100	528000	1@272	CP_QPSK	2808.50	-41.34	-25	PASS

n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@0

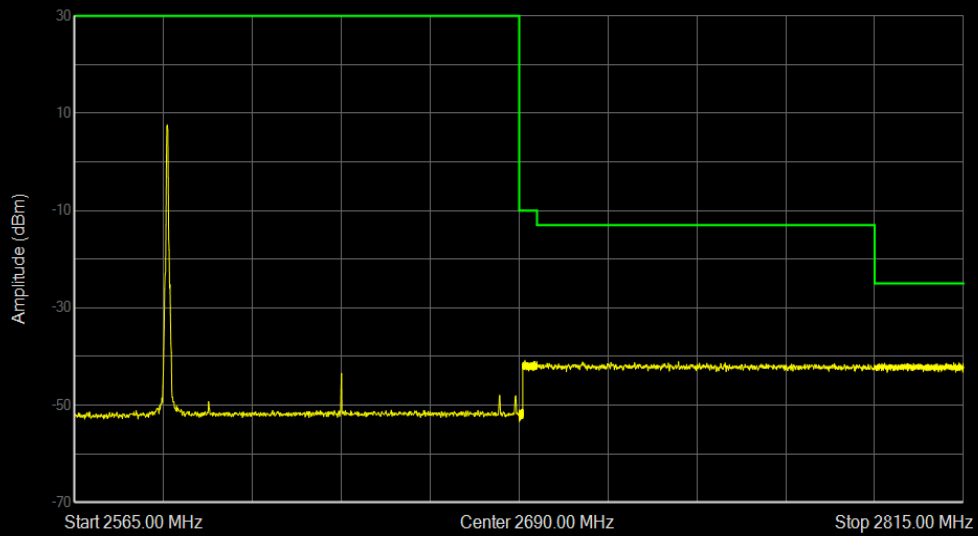


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@272

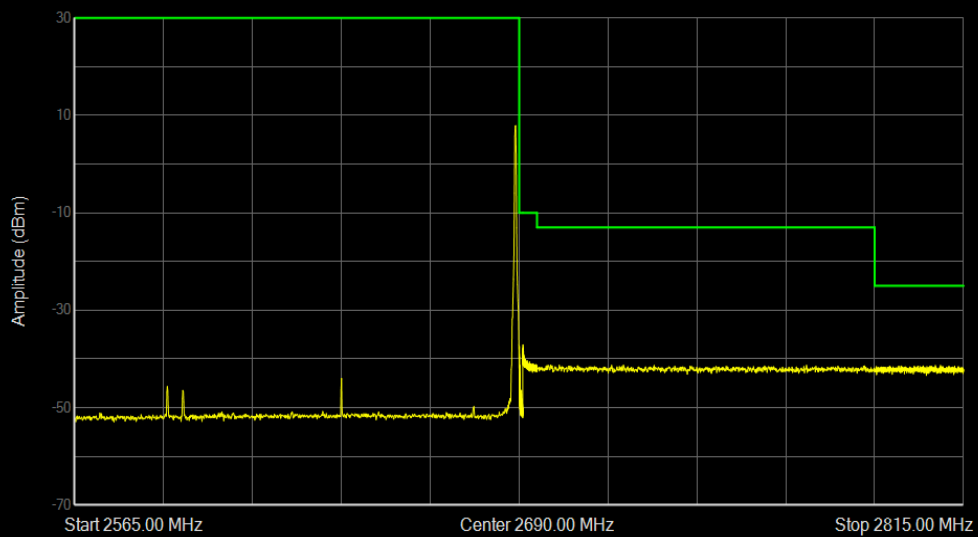
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2483.2105	-41.39	-25
2	2490.5	2495	1000	2494.3385	-41.13	-13
3	2495	2496	100	2495.844	-51.03	-13

n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=273@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2486.437	-41.1	-25
2	2490.5	2495	1000	2494.4825	-40.5	-13
3	2495	2496	1000	2495.986	-21.77	-13

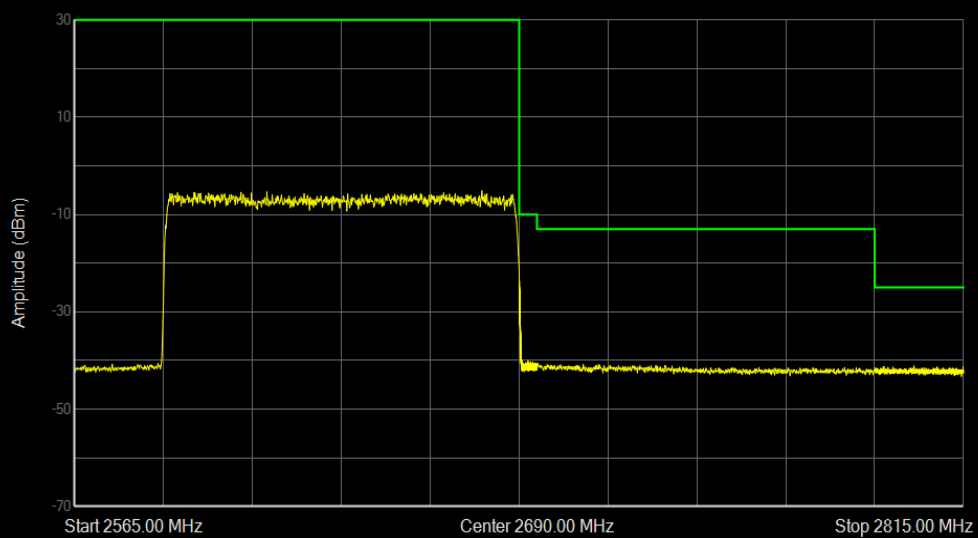
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.969	-50.83	-10
3	2691	2695	1000	2691.62	-40.87	-10
4	2695	2790	1000	2734.805	-41.08	-13
5	2790	2815	1000	2812.225	-41.29	-25

n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=1@272

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.023	-37.38	-10
3	2691	2695	1000	2691.052	-37.1	-10
4	2695	2790	1000	2698.8	-41.25	-13
5	2790	2815	1000	2808.5	-41.34	-25

n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=273@0



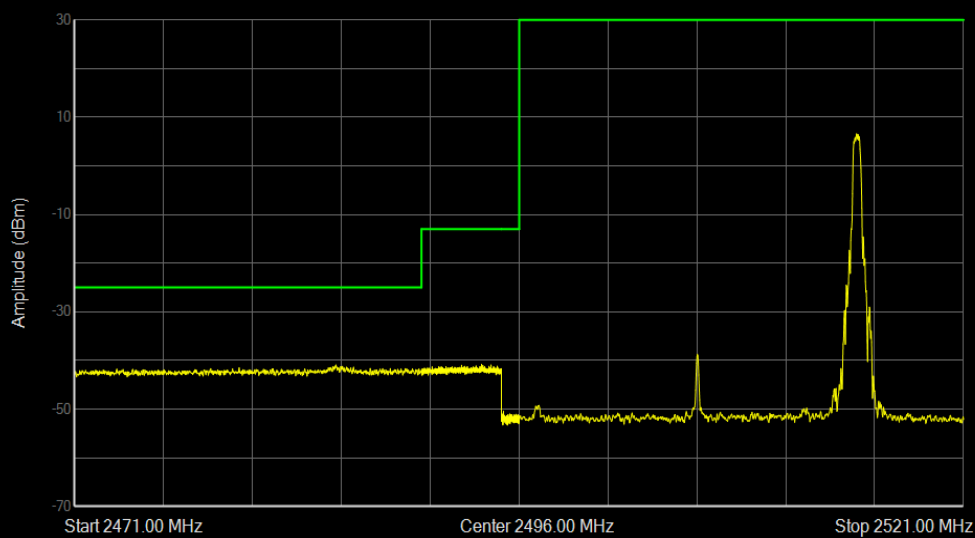
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	1000	2690.004	-23.5	-10
3	2691	2695	1000	2692.468	-40.06	-10
4	2695	2790	1000	2695.19	-40.56	-13
5	2790	2815	1000	2801.05	-41.12	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2487.7115	-41.57	-25
2	2490.5	2495	1000	2494.955	-38.27	-13
3	2495	2496	100	2495.952	-45.78	-13

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@50



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2485.6835	-40.93	-25
2	2490.5	2495	1000	2493.8795	-40.79	-13
3	2495	2496	100	2495.114	-50.48	-13

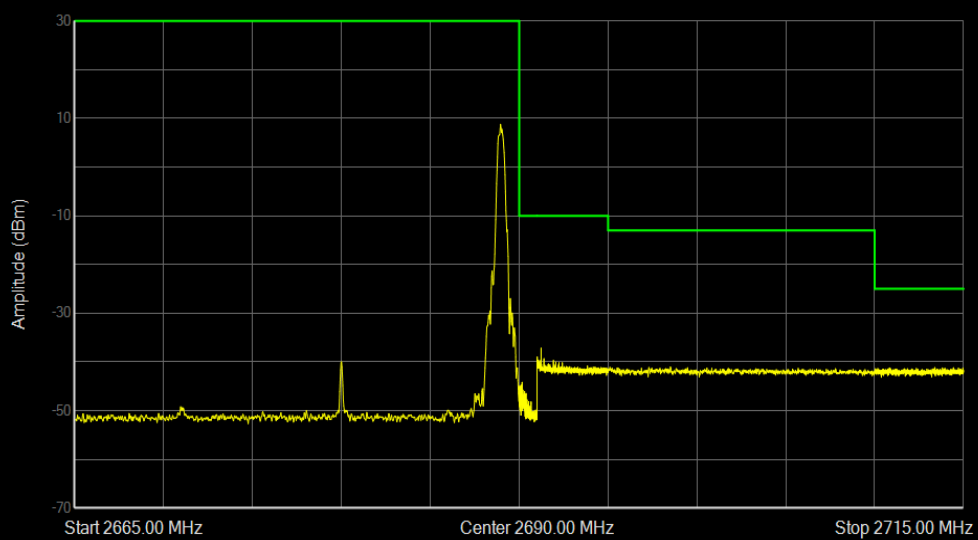
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=51@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2486.834	-38.93	-25
2	2490.5	2495	1000	2494.856	-36.82	-13
3	2495	2496	200	2495.714	-42.62	-13

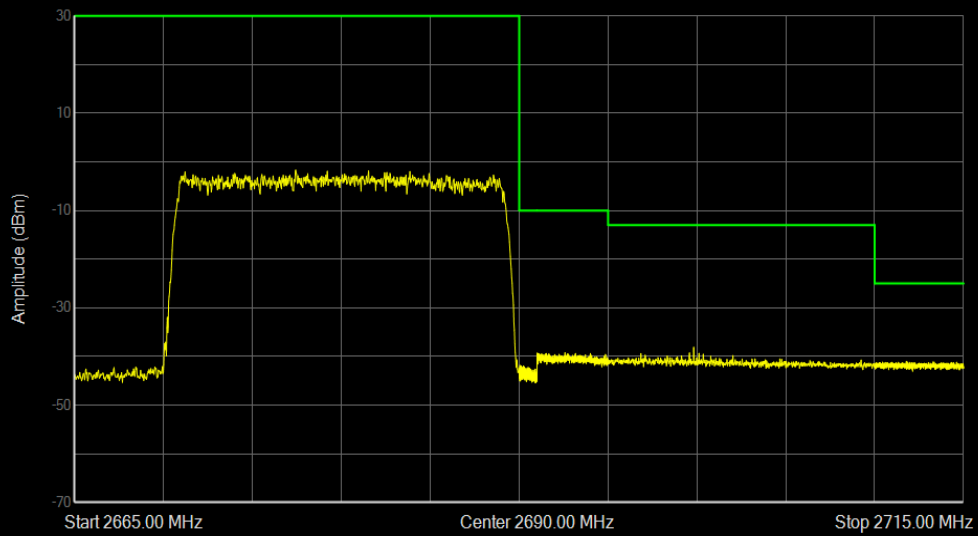
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.684	-50.54	-10
3	2691	2695	1000	2692.752	-40.66	-10
4	2695	2710	1000	2700.16	-40.89	-13
5	2710	2715	1000	2712.69	-41.19	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@50

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.164	-44.18	-10
3	2691	2695	1000	2691.232	-37.16	-10
4	2695	2710	1000	2698.51	-41.03	-13
5	2710	2715	1000	2713.39	-41.16	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=51@0

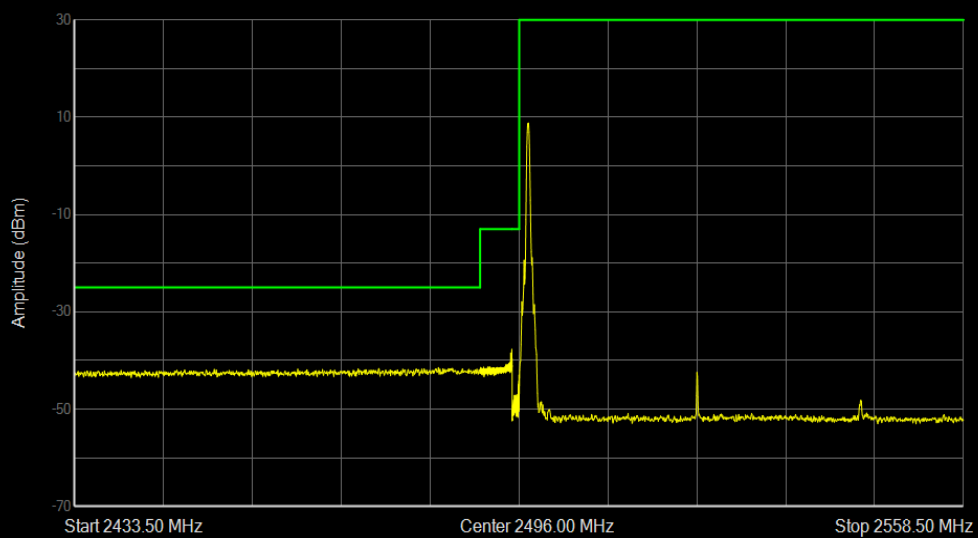


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	430	2690.044	-41.83	-10
3	2691	2695	1000	2692.576	-39.22	-10
4	2695	2710	1000	2699.815	-38.12	-13
5	2710	2715	1000	2711.78	-41	-25

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=133@0



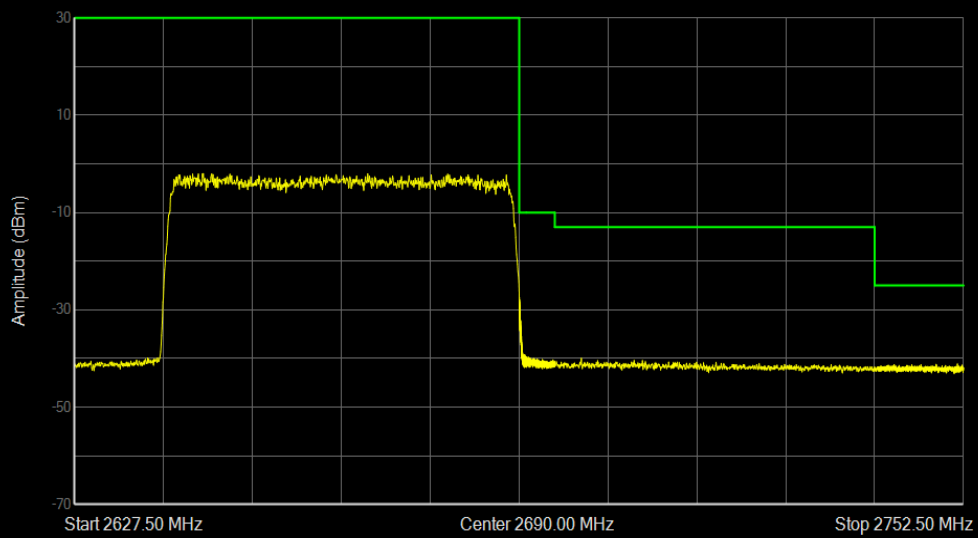
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2481.437	-40.2	-25
2	2490.5	2495	1000	2494.8245	-39.11	-13
3	2495	2496	510	2495.997	-38.81	-13

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=1@0

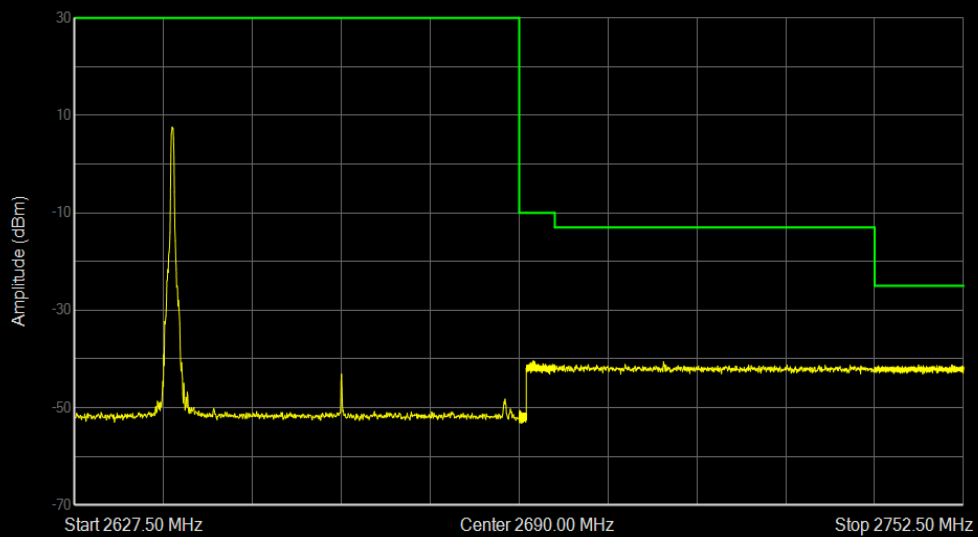
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2484.629	-41.46	-25
2	2490.5	2495	1000	2494.9595	-37.7	-13
3	2495	2496	100	2495.977	-42.97	-13

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=1@132

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2483.261	-41.28	-25
2	2490.5	2495	1000	2492.759	-41.22	-13
3	2495	2496	100	2495.822	-50.73	-13

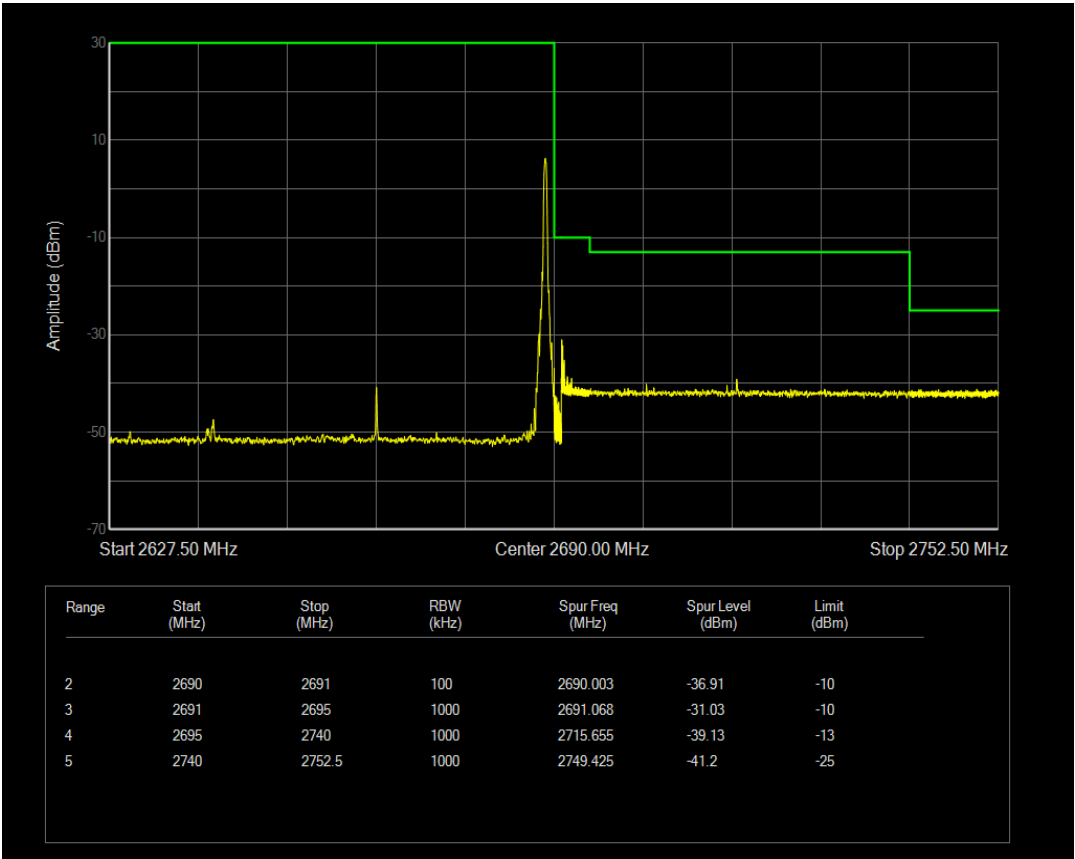
n41 SCS=30kHz CP_QPSK BW=50MHz Channel=532998 RB=133@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	1000	2690.002	-27.38	-10
3	2691	2695	1000	2691.328	-39.74	-10
4	2695	2740	1000	2698.735	-39.95	-13
5	2740	2752.5	1000	2751.625	-41.11	-25

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=532998 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.083	-50.6	-10
3	2691	2695	1000	2692.064	-40.43	-10
4	2695	2740	1000	2710.3	-40.57	-13
5	2740	2752.5	1000	2750.85	-41.23	-25

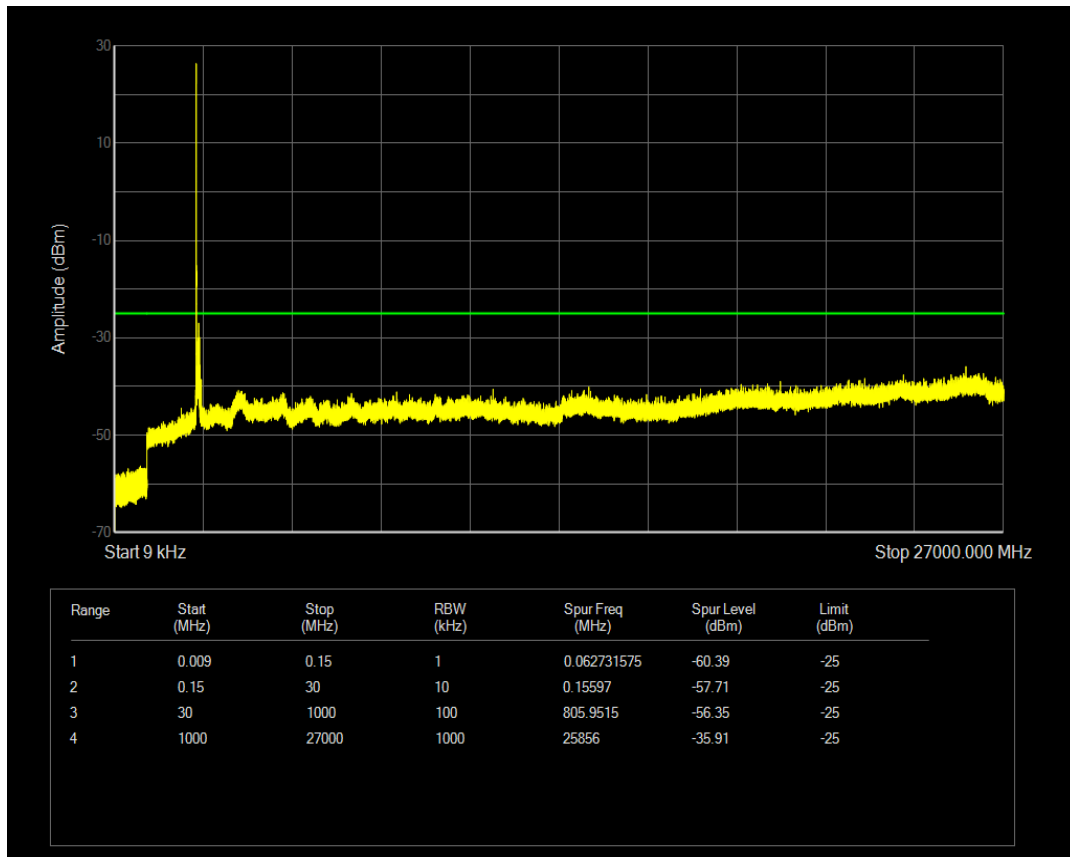
n41 SCS=30kHz CP_QPSK BW=50MHz Channel=532998 RB=1@132

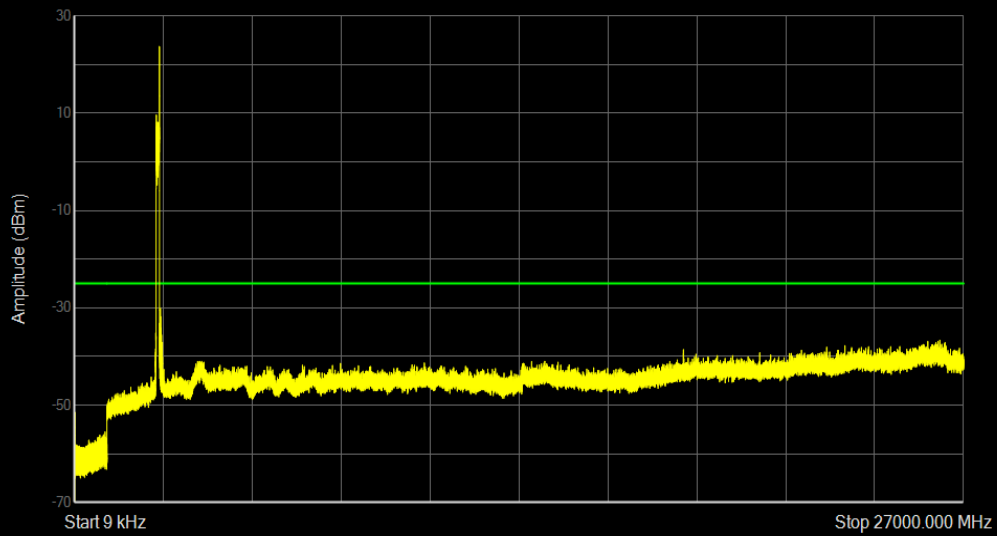


6 Out-of-band emissions for NR FR1

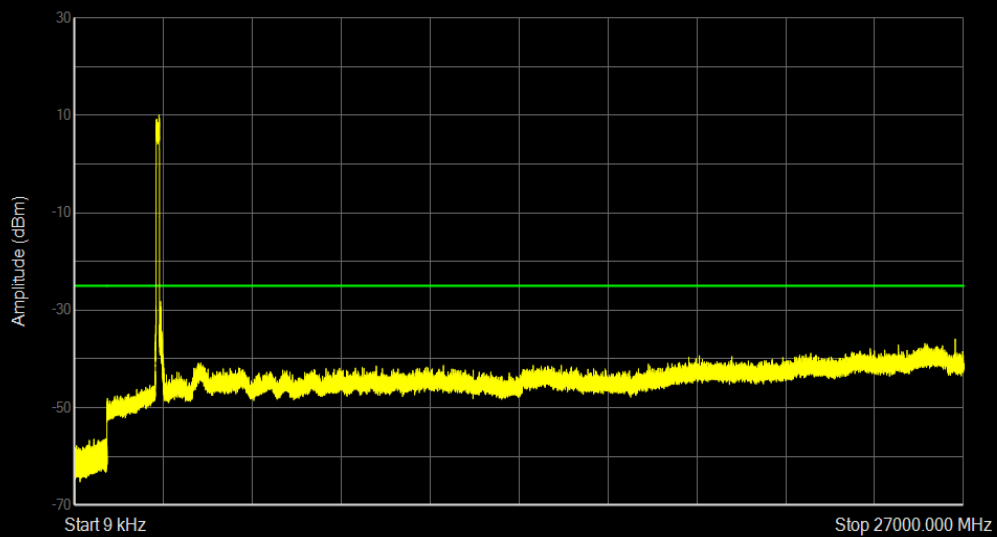
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	20	501204	51@0	CP_QPSK	25707.15	-36.45	-25	PASS
n41	30	20	501204	1@0	CP_QPSK	25830.65	-36.65	-25	PASS
n41	30	20	501204	1@50	CP_QPSK	25636.95	-37.11	-25	PASS
n41	30	20	535998	51@0	CP_QPSK	26322.05	-36.90	-25	PASS
n41	30	20	535998	1@0	CP_QPSK	25820.25	-35.88	-25	PASS
n41	30	20	535998	1@50	CP_QPSK	26183.60	-36.27	-25	PASS
n41	30	50	504204	133@0	CP_QPSK	26292.80	-36.65	-25	PASS
n41	30	50	504204	1@0	CP_QPSK	25733.80	-36.19	-25	PASS
n41	30	50	504204	1@132	CP_QPSK	26424.75	-36.75	-25	PASS
n41	30	50	532998	133@0	CP_QPSK	26200.50	-35.92	-25	PASS
n41	30	50	532998	1@0	CP_QPSK	25855.35	-36.48	-25	PASS
n41	30	50	532998	1@132	CP_QPSK	25760.45	-36.75	-25	PASS
n41	30	100	509202	273@0	CP_QPSK	26748.45	-35.91	-25	PASS
n41	30	100	509202	1@0	CP_QPSK	25856.00	-35.91	-25	PASS
n41	30	100	509202	1@272	CP_QPSK	26277.20	-36.65	-25	PASS
n41	30	100	528000	273@0	CP_QPSK	26108.85	-36.92	-25	PASS
n41	30	100	528000	1@0	CP_QPSK	25746.80	-37.06	-25	PASS
n41	30	100	528000	1@272	CP_QPSK	25822.20	-36.28	-25	PASS

n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@0



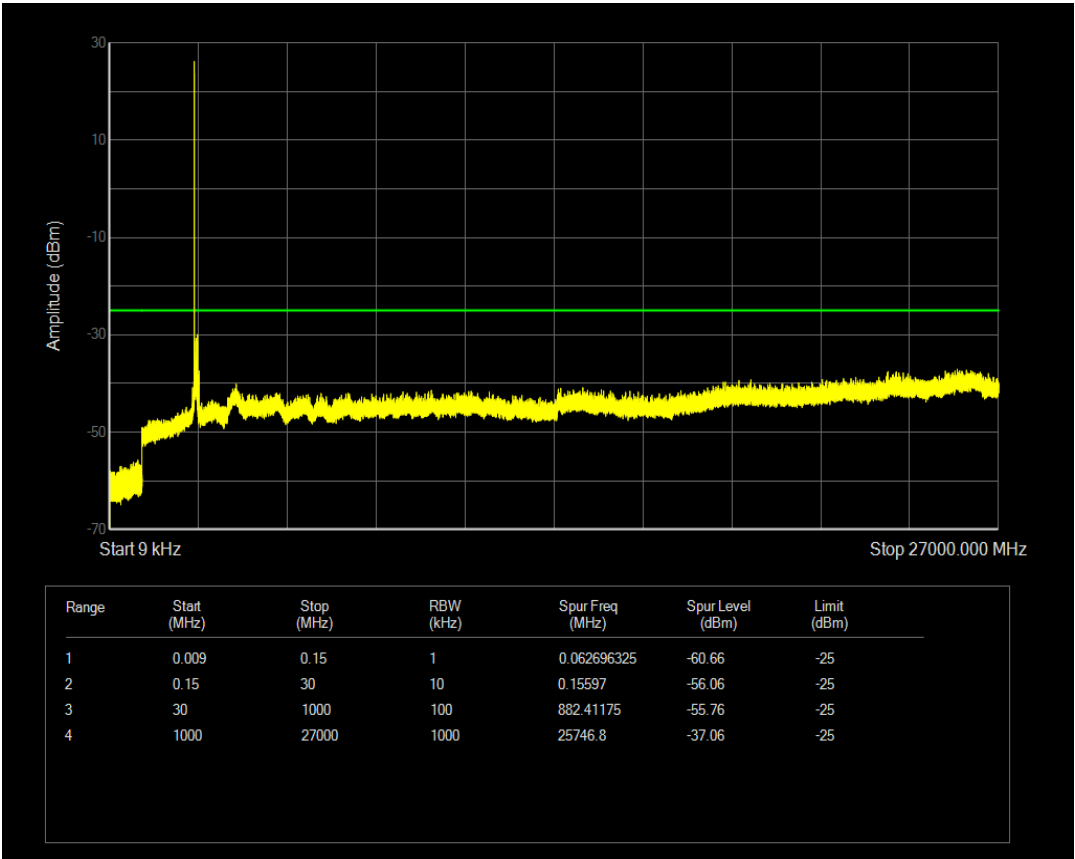
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@272

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0623544	-60.83	-25
2	0.15	30	10	0.15	-57.04	-25
3	30	1000	100	33.66175	-51.51	-25
4	1000	27000	1000	26277.2	-36.65	-25

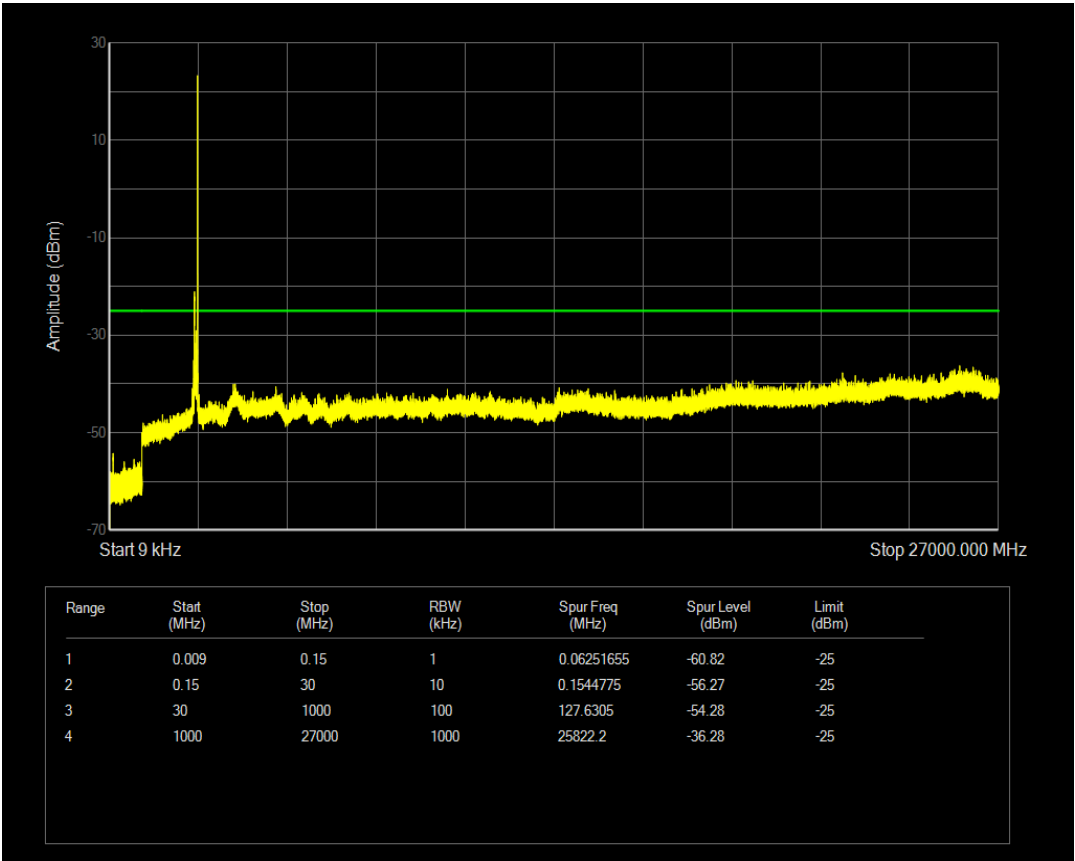
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=273@0

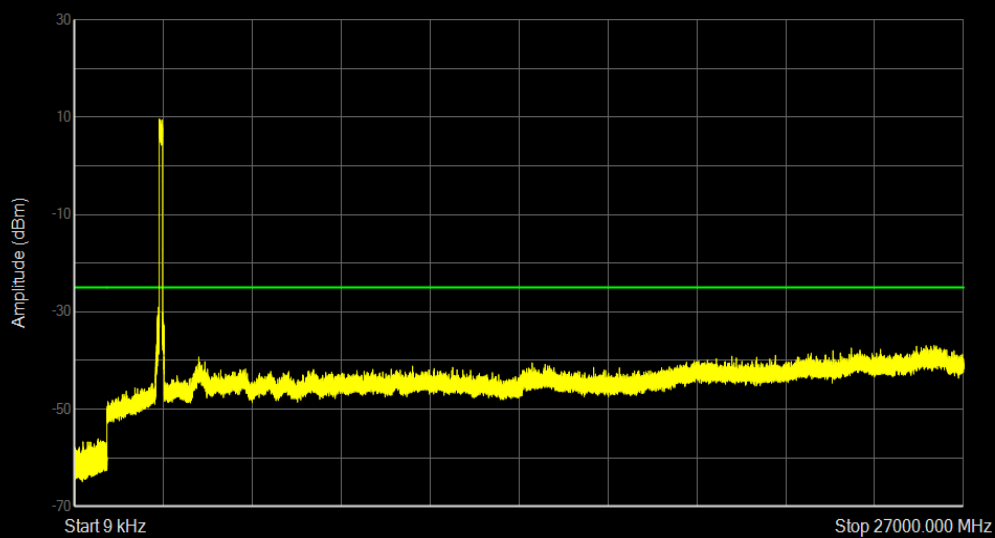
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06313695	-60.61	-25
2	0.15	30	10	0.1634325	-58.13	-25
3	30	1000	100	964.498	-56.43	-25
4	1000	27000	1000	26748.45	-35.91	-25

n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=1@0

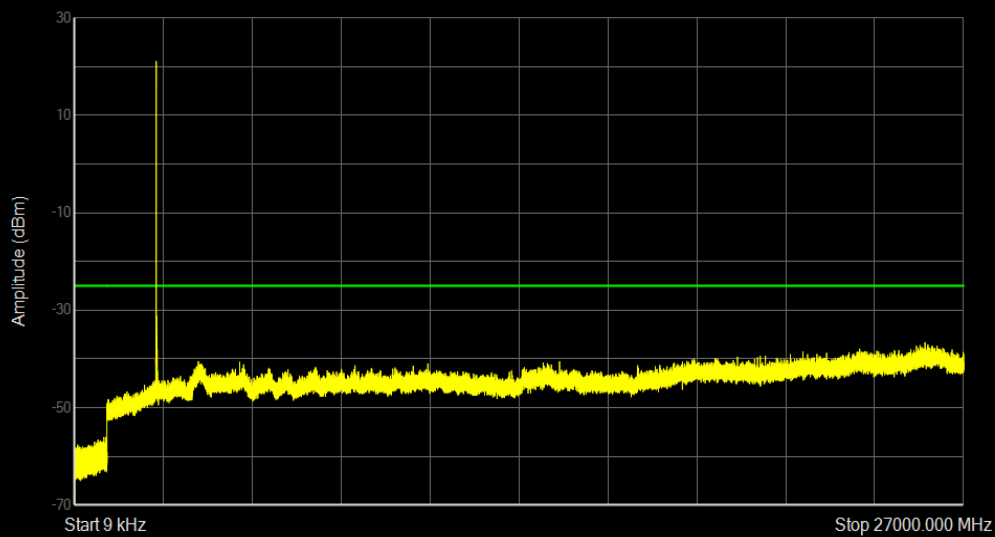


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=1@272



n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=273@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06267165	-59.34	-25
2	0.15	30	10	0.170895	-56.47	-25
3	30	1000	100	736.063	-56.09	-25
4	1000	27000	1000	26108.85	-36.92	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06315105	-60.84	-25
2	0.15	30	10	0.15	-56.06	-25
3	30	1000	100	908.26225	-56.1	-25
4	1000	27000	1000	25830.65	-36.65	-25