

TABLE OF CONTENTS

1 Conducted output power for NR FR12

2 Frequency stability for NR FR14

3 Peak-to-Average Ratio for NR FR16

4 Occupied bandwidth for NR FR130

5 Band edge for NR FR1.....38

6 Out-of-band emissions for NR FR148

1 Conducted output power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	Limt (dBm)	Verdict
n12	15	5	140300	1@1	DFT_BPSK	23.86	-6.31	-8.46	15.40	34.77	Pass
n12	15	5	140300	25@0	DFT_QPSK	23.09	-6.31	-8.46	14.63	34.77	Pass
n12	15	5	140300	12@6	DFT_QPSK	24.14	-6.31	-8.46	15.68	34.77	Pass
n12	15	5	140300	1@1	DFT_QPSK	24.52	-6.31	-8.46	16.06	34.77	Pass
n12	15	5	140300	1@23	DFT_QPSK	24.54	-6.31	-8.46	16.08	34.77	Pass
n12	15	5	140300	1@1	DFT_QAM16	23.01	-6.31	-8.46	14.55	34.77	Pass
n12	15	5	140300	1@1	DFT_QAM64	22.05	-6.31	-8.46	13.59	34.77	Pass
n12	15	5	140300	1@1	DFT_QAM256	19.56	-6.31	-8.46	11.10	34.77	Pass
n12	15	5	140300	1@1	CP_QPSK	22.71	-6.31	-8.46	14.25	34.77	Pass
n12	15	5	141500	1@1	DFT_BPSK	23.96	-6.31	-8.46	15.50	34.77	Pass
n12	15	5	141500	25@0	DFT_QPSK	23.12	-6.31	-8.46	14.66	34.77	Pass
n12	15	5	141500	12@6	DFT_QPSK	24.14	-6.31	-8.46	15.68	34.77	Pass
n12	15	5	141500	1@1	DFT_QPSK	22.06	-6.31	-8.46	13.60	34.77	Pass
n12	15	5	141500	1@23	DFT_QPSK	24.03	-6.31	-8.46	15.57	34.77	Pass
n12	15	5	141500	1@1	DFT_QAM16	23.14	-6.31	-8.46	14.68	34.77	Pass
n12	15	5	141500	1@1	DFT_QAM64	21.65	-6.31	-8.46	13.19	34.77	Pass
n12	15	5	141500	1@1	DFT_QAM256	20.30	-6.31	-8.46	11.84	34.77	Pass
n12	15	5	141500	1@1	CP_QPSK	20.74	-6.31	-8.46	12.28	34.77	Pass
n12	15	5	142700	1@1	DFT_BPSK	24.25	-6.31	-8.46	15.79	34.77	Pass
n12	15	5	142700	25@0	DFT_QPSK	23.12	-6.31	-8.46	14.66	34.77	Pass
n12	15	5	142700	12@6	DFT_QPSK	22.09	-6.31	-8.46	13.63	34.77	Pass
n12	15	5	142700	1@1	DFT_QPSK	24.65	-6.31	-8.46	16.19	34.77	Pass
n12	15	5	142700	1@23	DFT_QPSK	24.59	-6.31	-8.46	16.13	34.77	Pass
n12	15	5	142700	1@1	DFT_QAM16	22.48	-6.31	-8.46	14.02	34.77	Pass
n12	15	5	142700	1@1	DFT_QAM64	22.26	-6.31	-8.46	13.80	34.77	Pass
n12	15	5	142700	1@1	DFT_QAM256	19.61	-6.31	-8.46	11.15	34.77	Pass
n12	15	5	142700	1@1	CP_QPSK	22.75	-6.31	-8.46	14.29	34.77	Pass
n12	15	10	140800	1@1	DFT_BPSK	24.14	-6.31	-8.46	15.68	34.77	Pass
n12	15	10	140800	50@0	DFT_QPSK	21.13	-6.31	-8.46	12.67	34.77	Pass
n12	15	10	140800	25@12	DFT_QPSK	24.14	-6.31	-8.46	15.68	34.77	Pass
n12	15	10	140800	1@1	DFT_QPSK	24.10	-6.31	-8.46	15.64	34.77	Pass
n12	15	10	140800	1@50	DFT_QPSK	24.15	-6.31	-8.46	15.69	34.77	Pass
n12	15	10	140800	1@1	DFT_QAM16	23.15	-6.31	-8.46	14.69	34.77	Pass
n12	15	10	140800	1@1	DFT_QAM64	21.18	-6.31	-8.46	12.72	34.77	Pass
n12	15	10	140800	1@1	DFT_QAM256	19.67	-6.31	-8.46	11.21	34.77	Pass
n12	15	10	140800	1@1	CP_QPSK	22.20	-6.31	-8.46	13.74	34.77	Pass
n12	15	10	141500	1@1	DFT_BPSK	24.06	-6.31	-8.46	15.60	34.77	Pass

n12	15	10	141500	50@0	DFT_QPSK	23.09	-6.31	-8.46	14.63	34.77	Pass
n12	15	10	141500	25@12	DFT_QPSK	24.09	-6.31	-8.46	15.63	34.77	Pass
n12	15	10	141500	1@1	DFT_QPSK	24.15	-6.31	-8.46	15.69	34.77	Pass
n12	15	10	141500	1@50	DFT_QPSK	24.09	-6.31	-8.46	15.63	34.77	Pass
n12	15	10	141500	1@1	DFT_QAM16	22.66	-6.31	-8.46	14.20	34.77	Pass
n12	15	10	141500	1@1	DFT_QAM64	22.02	-6.31	-8.46	13.56	34.77	Pass
n12	15	10	141500	1@1	DFT_QAM256	19.36	-6.31	-8.46	10.90	34.77	Pass
n12	15	10	141500	1@1	CP_QPSK	20.43	-6.31	-8.46	11.97	34.77	Pass
n12	15	10	142200	1@1	DFT_BPSK	24.22	-6.31	-8.46	15.76	34.77	Pass
n12	15	10	142200	50@0	DFT_QPSK	23.09	-6.31	-8.46	14.63	34.77	Pass
n12	15	10	142200	25@12	DFT_QPSK	22.11	-6.31	-8.46	13.65	34.77	Pass
n12	15	10	142200	1@1	DFT_QPSK	24.30	-6.31	-8.46	15.84	34.77	Pass
n12	15	10	142200	1@50	DFT_QPSK	22.16	-6.31	-8.46	13.70	34.77	Pass
n12	15	10	142200	1@1	DFT_QAM16	23.49	-6.31	-8.46	15.03	34.77	Pass
n12	15	10	142200	1@1	DFT_QAM64	21.93	-6.31	-8.46	13.47	34.77	Pass
n12	15	10	142200	1@1	DFT_QAM256	19.58	-6.31	-8.46	11.12	34.77	Pass
n12	15	10	142200	1@1	CP_QPSK	23.10	-6.31	-8.46	14.64	34.77	Pass
n12	15	15	141300	1@1	DFT_BPSK	24.07	-6.31	-8.46	15.61	34.77	Pass
n12	15	15	141300	75@0	DFT_QPSK	23.12	-6.31	-8.46	14.66	34.77	Pass
n12	15	15	141300	36@18	DFT_QPSK	24.13	-6.31	-8.46	15.67	34.77	Pass
n12	15	15	141300	1@1	DFT_QPSK	23.80	-6.31	-8.46	15.34	34.77	Pass
n12	15	15	141300	1@77	DFT_QPSK	23.73	-6.31	-8.46	15.27	34.77	Pass
n12	15	15	141300	1@1	DFT_QAM16	22.86	-6.31	-8.46	14.40	34.77	Pass
n12	15	15	141300	1@1	DFT_QAM64	21.48	-6.31	-8.46	13.02	34.77	Pass
n12	15	15	141300	1@1	DFT_QAM256	19.59	-6.31	-8.46	11.13	34.77	Pass
n12	15	15	141300	1@1	CP_QPSK	22.48	-6.31	-8.46	14.02	34.77	Pass
n12	15	15	141500	1@1	DFT_BPSK	24.06	-6.31	-8.46	15.60	34.77	Pass
n12	15	15	141500	75@0	DFT_QPSK	23.12	-6.31	-8.46	14.66	34.77	Pass
n12	15	15	141500	36@18	DFT_QPSK	24.14	-6.31	-8.46	15.68	34.77	Pass
n12	15	15	141500	1@1	DFT_QPSK	24.14	-6.31	-8.46	15.68	34.77	Pass
n12	15	15	141500	1@77	DFT_QPSK	22.10	-6.31	-8.46	13.64	34.77	Pass
n12	15	15	141500	1@1	DFT_QAM16	22.90	-6.31	-8.46	14.44	34.77	Pass
n12	15	15	141500	1@1	DFT_QAM64	21.85	-6.31	-8.46	13.39	34.77	Pass
n12	15	15	141500	1@1	DFT_QAM256	19.26	-6.31	-8.46	10.80	34.77	Pass
n12	15	15	141500	1@1	CP_QPSK	22.67	-6.31	-8.46	14.21	34.77	Pass
n12	15	15	141700	1@1	DFT_BPSK	23.94	-6.31	-8.46	15.48	34.77	Pass
n12	15	15	141700	75@0	DFT_QPSK	23.13	-6.31	-8.46	14.67	34.77	Pass
n12	15	15	141700	36@18	DFT_QPSK	22.14	-6.31	-8.46	13.68	34.77	Pass
n12	15	15	141700	1@1	DFT_QPSK	24.23	-6.31	-8.46	15.77	34.77	Pass
n12	15	15	141700	1@77	DFT_QPSK	22.20	-6.31	-8.46	13.74	34.77	Pass
n12	15	15	141700	1@1	DFT_QAM16	23.06	-6.31	-8.46	14.60	34.77	Pass
n12	15	15	141700	1@1	DFT_QAM64	22.00	-6.31	-8.46	13.54	34.77	Pass
n12	15	15	141700	1@1	DFT_QAM256	19.48	-6.31	-8.46	11.02	34.77	Pass
n12	15	15	141700	1@1	CP_QPSK	22.64	-6.31	-8.46	14.18	34.77	Pass

2 Frequency stability for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
n12	15	5	140300	12@6	DFT_BPSK	-2.45	-0.00349	-2.5	2.5	PASS
n12	15	5	140300	1@1	DFT_BPSK	-4.84	-0.00690	-2.5	2.5	PASS
n12	15	5	140300	1@23	DFT_BPSK	-4.18	-0.00596	-2.5	2.5	PASS
n12	15	5	140300	12@6	DFT_QPSK	-4.80	-0.00684	-2.5	2.5	PASS
n12	15	5	140300	1@1	DFT_QPSK	-6.04	-0.00861	-2.5	2.5	PASS
n12	15	5	140300	1@23	DFT_QPSK	-4.95	-0.00706	-2.5	2.5	PASS
n12	15	5	141500	12@6	DFT_BPSK	-3.62	-0.00512	-2.5	2.5	PASS
n12	15	5	141500	1@1	DFT_BPSK	-6.44	-0.00910	-2.5	2.5	PASS
n12	15	5	141500	1@23	DFT_BPSK	-4.78	-0.00676	-2.5	2.5	PASS
n12	15	5	141500	12@6	DFT_QPSK	-5.41	-0.00765	-2.5	2.5	PASS
n12	15	5	141500	1@1	DFT_QPSK	-5.17	-0.00731	-2.5	2.5	PASS
n12	15	5	141500	1@23	DFT_QPSK	-7.07	-0.00999	-2.5	2.5	PASS
n12	15	5	142700	12@6	DFT_BPSK	-3.26	-0.00457	-2.5	2.5	PASS
n12	15	5	142700	1@1	DFT_BPSK	-3.74	-0.00524	-2.5	2.5	PASS
n12	15	5	142700	1@23	DFT_BPSK	-5.46	-0.00765	-2.5	2.5	PASS
n12	15	5	142700	12@6	DFT_QPSK	-5.51	-0.00772	-2.5	2.5	PASS
n12	15	5	142700	1@1	DFT_QPSK	-4.68	-0.00656	-2.5	2.5	PASS
n12	15	5	142700	1@23	DFT_QPSK	-6.45	-0.00904	-2.5	2.5	PASS
n12	15	10	140800	25@12	DFT_BPSK	-2.89	-0.00411	-2.5	2.5	PASS
n12	15	10	140800	1@1	DFT_BPSK	-5.99	-0.00851	-2.5	2.5	PASS
n12	15	10	140800	1@50	DFT_BPSK	-6.30	-0.00895	-2.5	2.5	PASS
n12	15	10	140800	25@12	DFT_QPSK	-6.03	-0.00857	-2.5	2.5	PASS
n12	15	10	140800	1@1	DFT_QPSK	-5.72	-0.00813	-2.5	2.5	PASS
n12	15	10	140800	1@50	DFT_QPSK	-8.14	-0.01156	-2.5	2.5	PASS
n12	15	10	141500	25@12	DFT_BPSK	-3.13	-0.00442	-2.5	2.5	PASS
n12	15	10	141500	1@1	DFT_BPSK	-4.32	-0.00611	-2.5	2.5	PASS
n12	15	10	141500	1@50	DFT_BPSK	-4.16	-0.00588	-2.5	2.5	PASS
n12	15	10	141500	25@12	DFT_QPSK	-2.96	-0.00418	-2.5	2.5	PASS
n12	15	10	141500	1@1	DFT_QPSK	-3.64	-0.00514	-2.5	2.5	PASS
n12	15	10	141500	1@50	DFT_QPSK	-3.76	-0.00531	-2.5	2.5	PASS
n12	15	10	142200	25@12	DFT_BPSK	-0.33	-0.00046	-2.5	2.5	PASS
n12	15	10	142200	1@1	DFT_BPSK	-1.23	-0.00173	-2.5	2.5	PASS
n12	15	10	142200	1@50	DFT_BPSK	-2.27	-0.00319	-2.5	2.5	PASS
n12	15	10	142200	25@12	DFT_QPSK	-0.58	-0.00082	-2.5	2.5	PASS
n12	15	10	142200	1@1	DFT_QPSK	0.05	0.00007	-2.5	2.5	PASS
n12	15	10	142200	1@50	DFT_QPSK	0.11	0.00015	-2.5	2.5	PASS
n12	15	15	141300	36@18	DFT_BPSK	-1.41	-0.00200	-2.5	2.5	PASS
n12	15	15	141300	1@1	DFT_BPSK	-2.22	-0.00314	-2.5	2.5	PASS

n12	15	15	141300	1@77	DFT_BPSK	-2.92	-0.00413	-2.5	2.5	PASS
n12	15	15	141300	36@18	DFT_QPSK	-4.45	-0.00630	-2.5	2.5	PASS
n12	15	15	141300	1@1	DFT_QPSK	-3.02	-0.00427	-2.5	2.5	PASS
n12	15	15	141300	1@77	DFT_QPSK	-1.77	-0.00251	-2.5	2.5	PASS
n12	15	15	141500	36@18	DFT_BPSK	-1.89	-0.00267	-2.5	2.5	PASS
n12	15	15	141500	1@1	DFT_BPSK	-2.70	-0.00382	-2.5	2.5	PASS
n12	15	15	141500	1@77	DFT_BPSK	-3.81	-0.00539	-2.5	2.5	PASS
n12	15	15	141500	36@18	DFT_QPSK	-4.04	-0.00571	-2.5	2.5	PASS
n12	15	15	141500	1@1	DFT_QPSK	-4.93	-0.00697	-2.5	2.5	PASS
n12	15	15	141500	1@77	DFT_QPSK	-5.57	-0.00787	-2.5	2.5	PASS
n12	15	15	141700	36@18	DFT_BPSK	-5.18	-0.00731	-2.5	2.5	PASS
n12	15	15	141700	1@1	DFT_BPSK	-5.62	-0.00793	-2.5	2.5	PASS
n12	15	15	141700	1@77	DFT_BPSK	-9.49	-0.01339	-2.5	2.5	PASS
n12	15	15	141700	36@18	DFT_QPSK	-8.19	-0.01156	-2.5	2.5	PASS
n12	15	15	141700	1@1	DFT_QPSK	-6.18	-0.00872	-2.5	2.5	PASS
n12	15	15	141700	1@77	DFT_QPSK	-6.28	-0.00886	-2.5	2.5	PASS

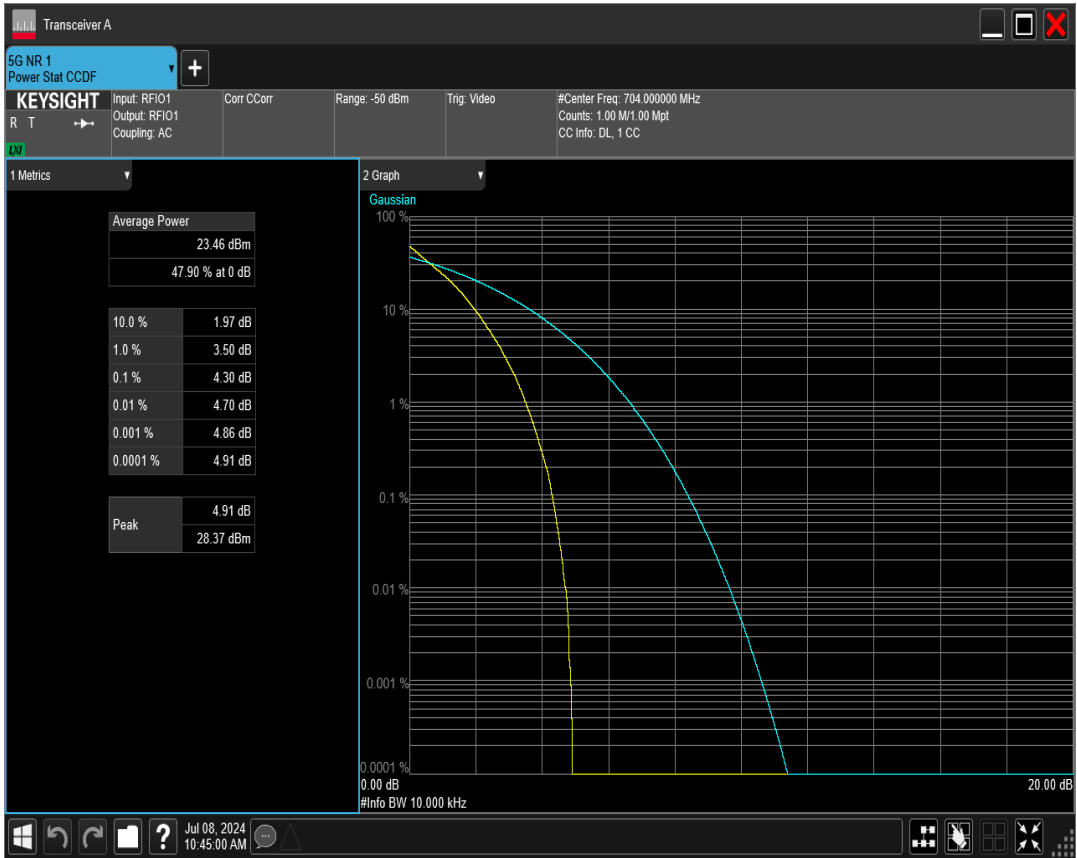
Note: (Voltage: 3.78V, Temperature: 25°C) only reflect the worst mode.

3 Peak-to-Average Ratio for NR FR1

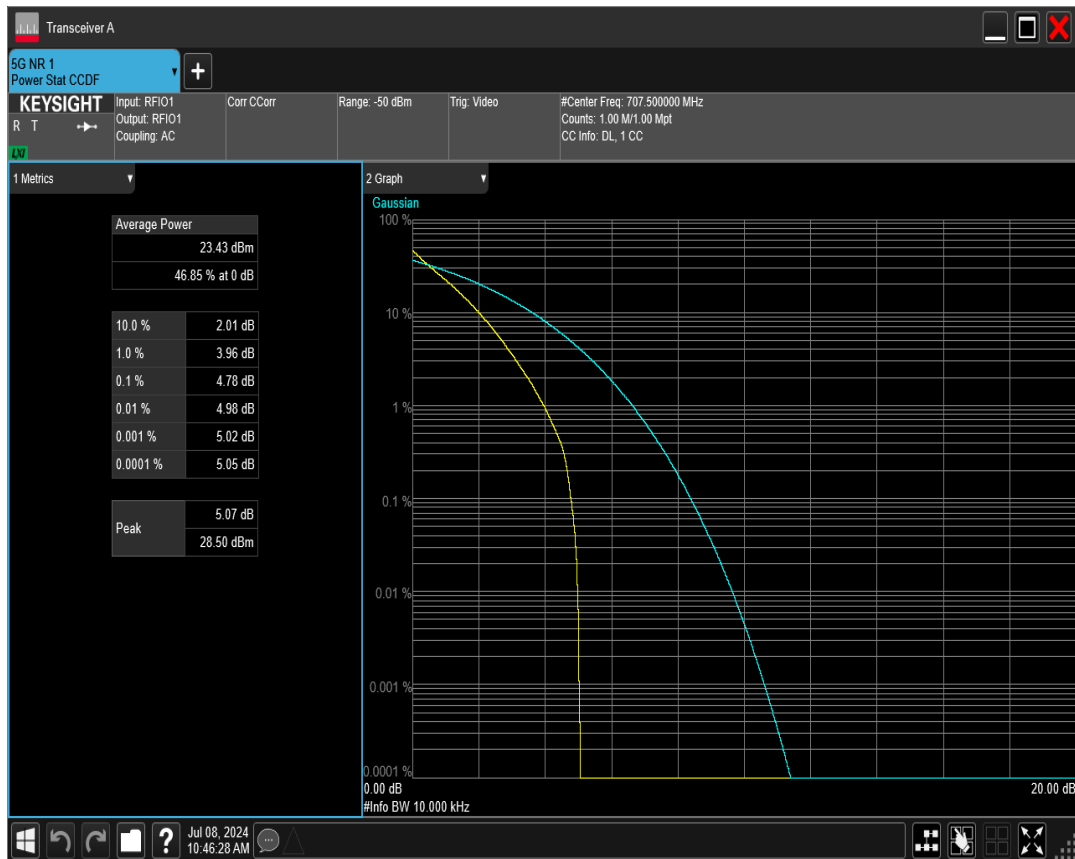
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n12	15	5	140300	25@0	DFT_BPSK	4.26	13	PASS
n12	15	5	140300	25@0	DFT_QPSK	5.11	13	PASS
n12	15	5	140300	25@0	DFT_QAM16	6.08	13	PASS
n12	15	5	140300	25@0	DFT_QAM64	6.42	13	PASS
n12	15	5	140300	25@0	DFT_QAM256	7.04	13	PASS
n12	15	5	141500	25@0	DFT_BPSK	5.51	13	PASS
n12	15	5	141500	25@0	DFT_QPSK	5.04	13	PASS
n12	15	5	141500	25@0	DFT_QAM16	5.88	13	PASS
n12	15	5	141500	25@0	DFT_QAM64	6.15	13	PASS
n12	15	5	141500	25@0	DFT_QAM256	6.95	13	PASS
n12	15	5	142700	25@0	DFT_BPSK	4.09	13	PASS
n12	15	5	142700	25@0	DFT_QPSK	5.04	13	PASS
n12	15	5	142700	25@0	DFT_QAM16	6.16	13	PASS
n12	15	5	142700	25@0	DFT_QAM64	6.27	13	PASS
n12	15	5	142700	25@0	DFT_QAM256	6.86	13	PASS
n12	15	10	140800	50@0	DFT_BPSK	4.30	13	PASS
n12	15	10	140800	50@0	DFT_QPSK	5.24	13	PASS
n12	15	10	140800	50@0	DFT_QAM16	6.14	13	PASS
n12	15	10	140800	50@0	DFT_QAM64	6.49	13	PASS
n12	15	10	140800	50@0	DFT_QAM256	7.09	13	PASS
n12	15	10	141500	50@0	DFT_BPSK	4.78	13	PASS
n12	15	10	141500	50@0	DFT_QPSK	5.23	13	PASS
n12	15	10	141500	50@0	DFT_QAM16	6.15	13	PASS
n12	15	10	141500	50@0	DFT_QAM64	6.63	13	PASS
n12	15	10	141500	50@0	DFT_QAM256	6.98	13	PASS
n12	15	10	142200	50@0	DFT_BPSK	4.30	13	PASS
n12	15	10	142200	50@0	DFT_QPSK	5.15	13	PASS
n12	15	10	142200	50@0	DFT_QAM16	6.10	13	PASS
n12	15	10	142200	50@0	DFT_QAM64	6.51	13	PASS
n12	15	10	142200	50@0	DFT_QAM256	7.12	13	PASS
n12	15	15	141300	75@0	DFT_BPSK	4.26	13	PASS
n12	15	15	141300	75@0	DFT_QPSK	5.36	13	PASS
n12	15	15	141300	75@0	DFT_QAM16	6.13	13	PASS
n12	15	15	141300	75@0	DFT_QAM64	6.54	13	PASS
n12	15	15	141300	75@0	DFT_QAM256	6.99	13	PASS
n12	15	15	141500	75@0	DFT_BPSK	4.37	13	PASS
n12	15	15	141500	75@0	DFT_QPSK	5.32	13	PASS
n12	15	15	141500	75@0	DFT_QAM16	6.22	13	PASS
n12	15	15	141500	75@0	DFT_QAM64	6.44	13	PASS
n12	15	15	141500	75@0	DFT_QAM256	6.86	13	PASS

n12	15	15	141700	75@0	DFT_BPSK	4.38	13	PASS
n12	15	15	141700	75@0	DFT_QPSK	5.32	13	PASS
n12	15	15	141700	75@0	DFT_QAM16	6.14	13	PASS
n12	15	15	141700	75@0	DFT_QAM64	6.51	13	PASS
n12	15	15	141700	75@0	DFT_QAM256	7.06	13	PASS

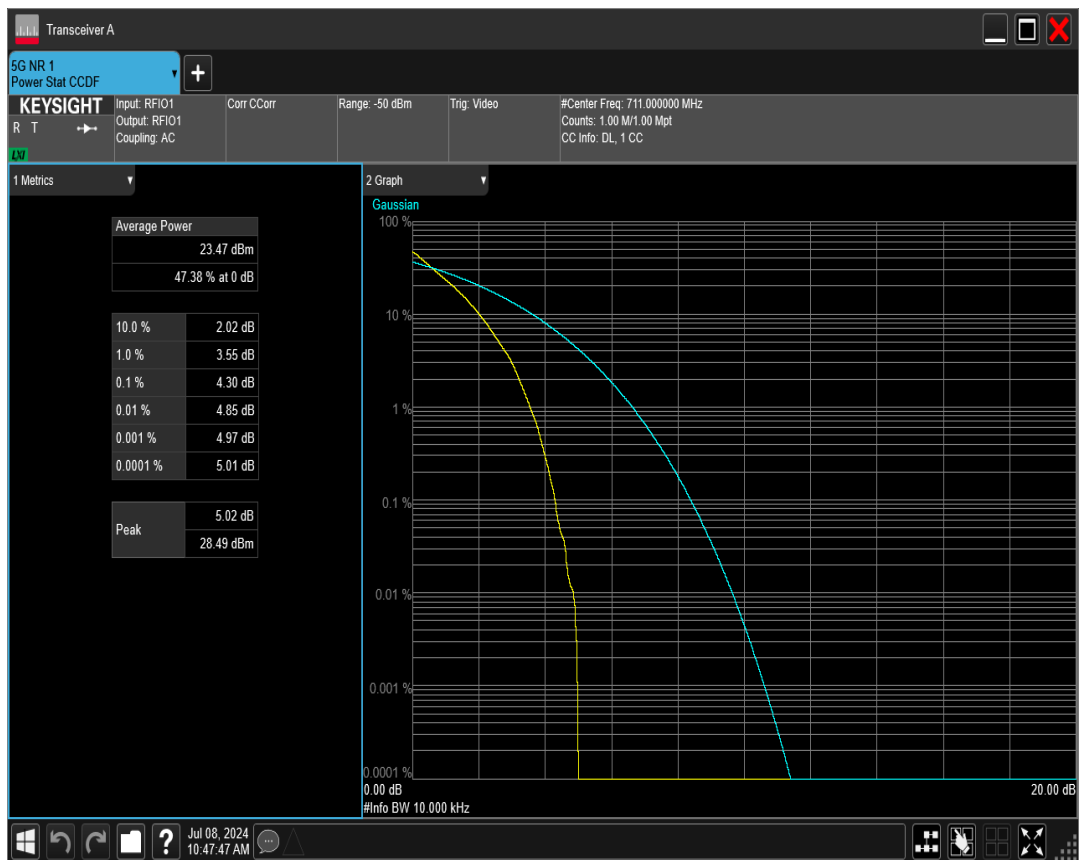
n12 SCS=15kHz DFT_BPSK BW=10MHz Channel=140800 RB=50@0



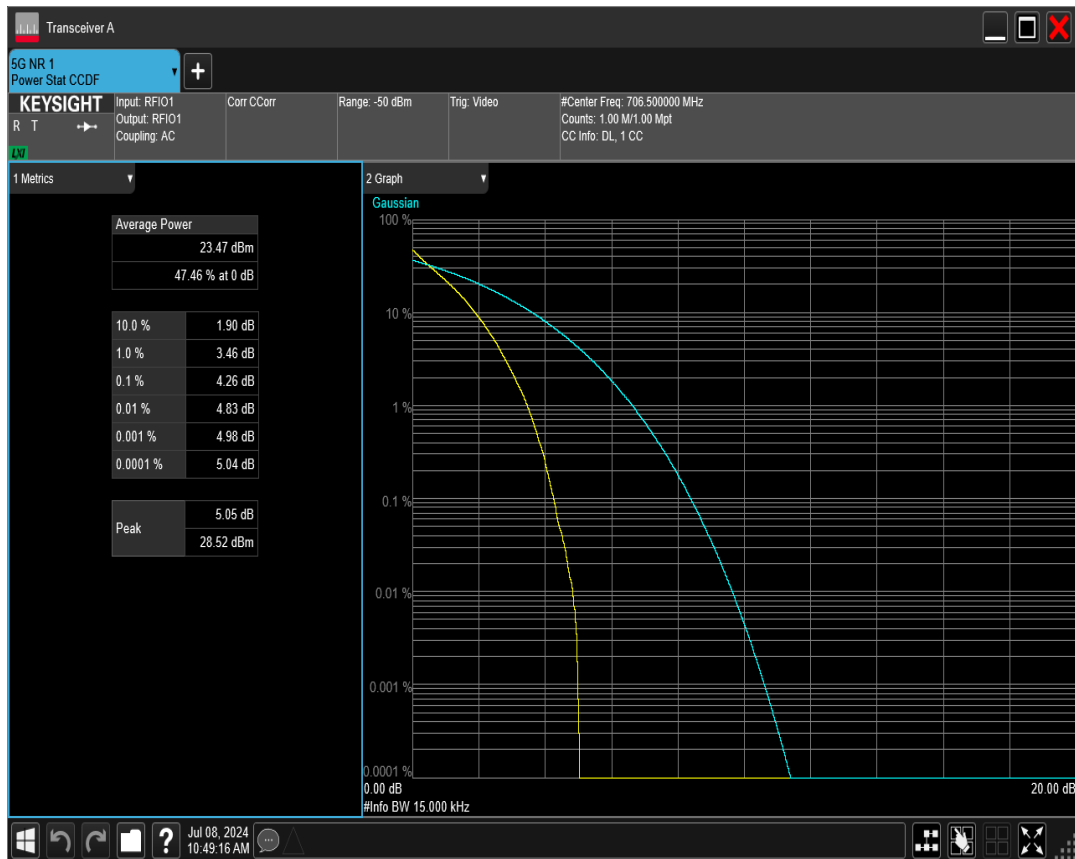
n12 SCS=15kHz DFT_BPSK BW=10MHz Channel=141500 RB=50@0



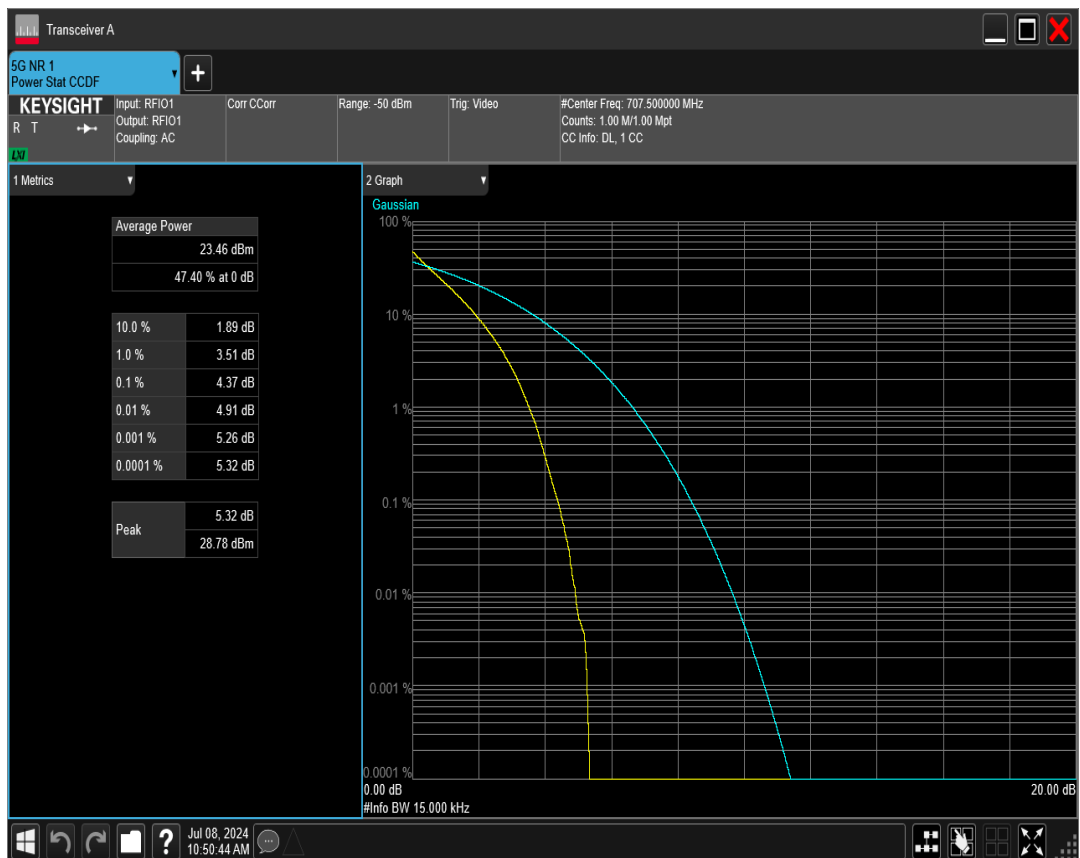
n12 SCS=15kHz DFT_BPSK BW=10MHz Channel=142200 RB=50@0



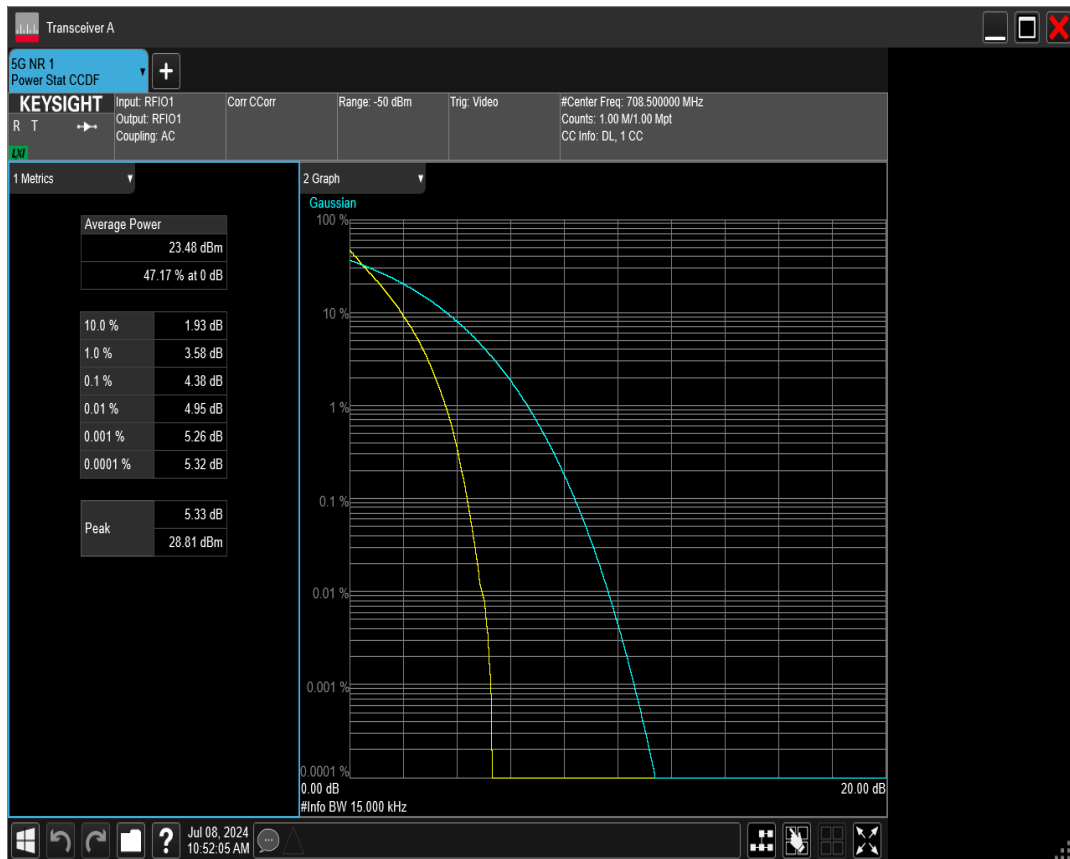
n12 SCS=15kHz DFT_BPSK BW=15MHz Channel=141300 RB=75@0



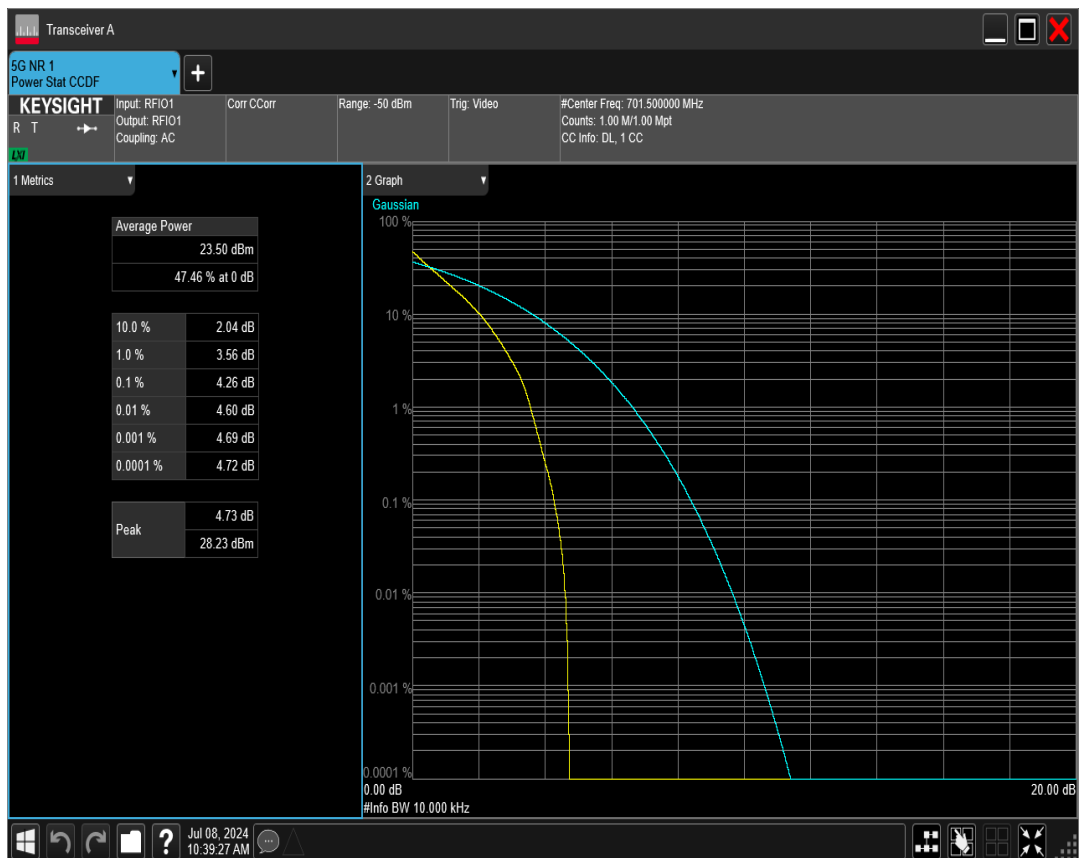
n12 SCS=15kHz DFT_BPSK BW=15MHz Channel=141500 RB=75@0



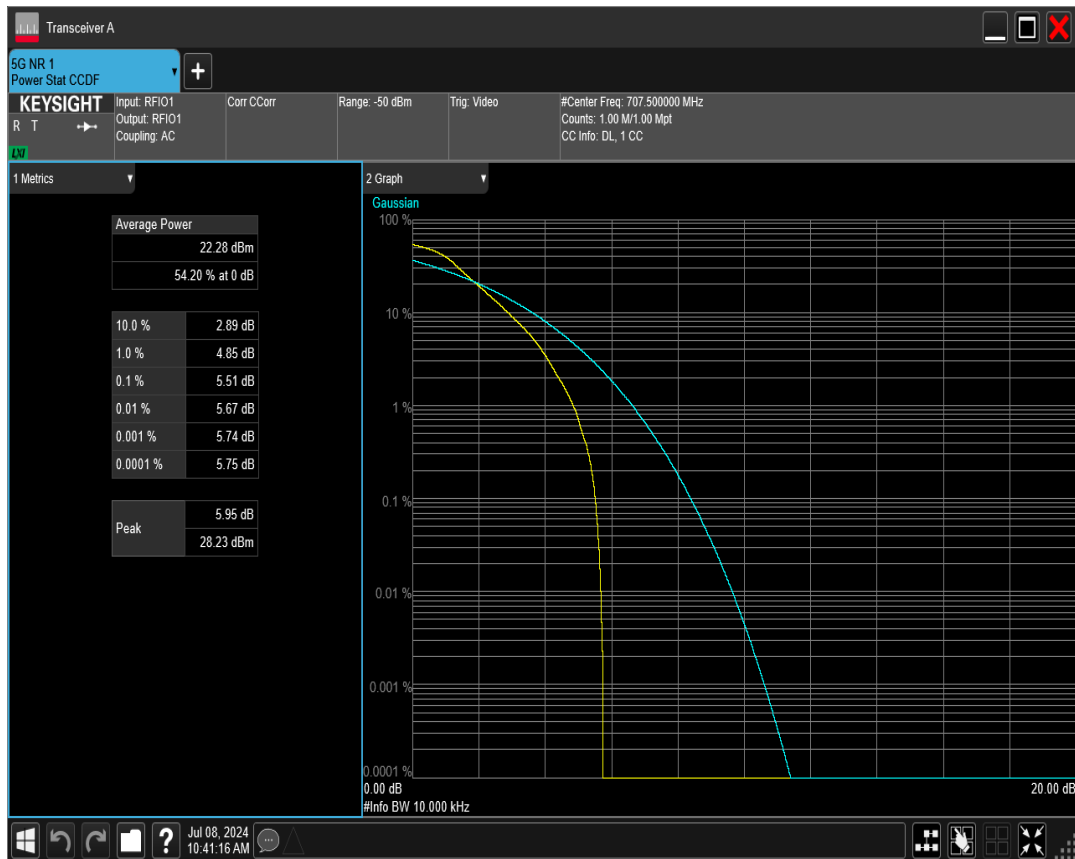
n12 SCS=15kHz DFT_BPSK BW=15MHz Channel=141700 RB=75@0



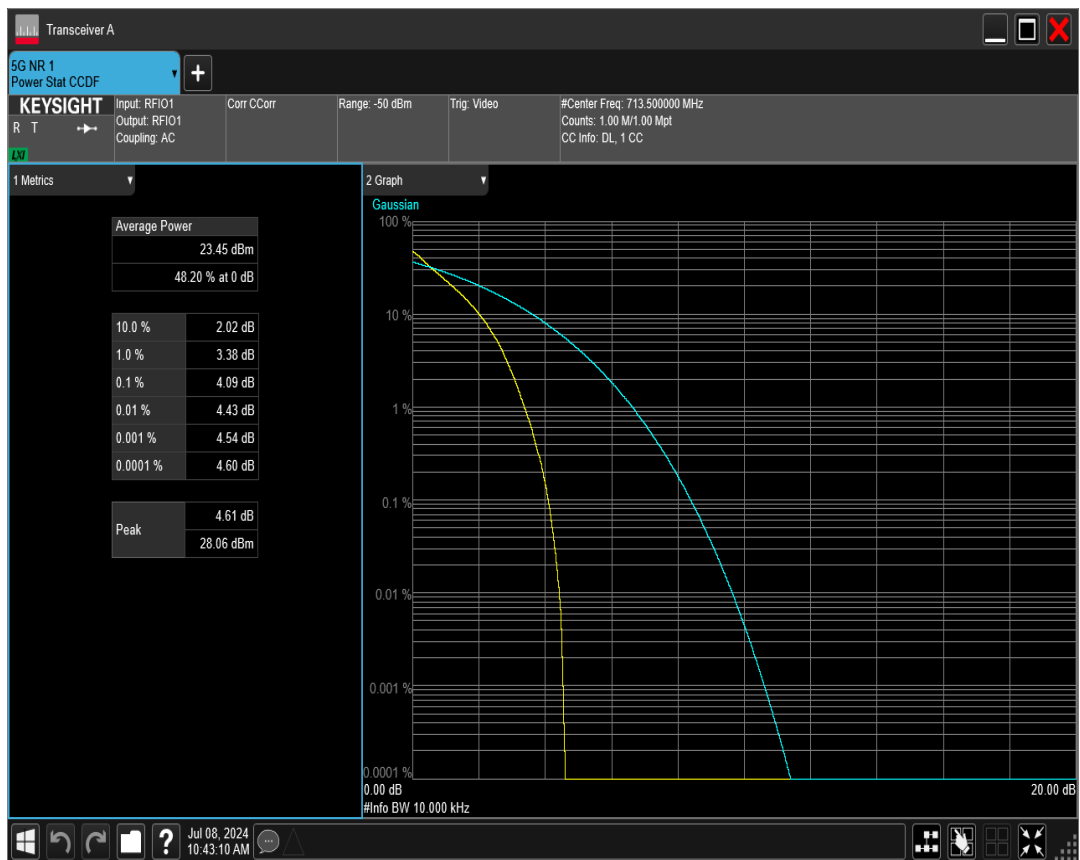
n12 SCS=15kHz DFT_BPSK BW=5MHz Channel=140300 RB=25@0



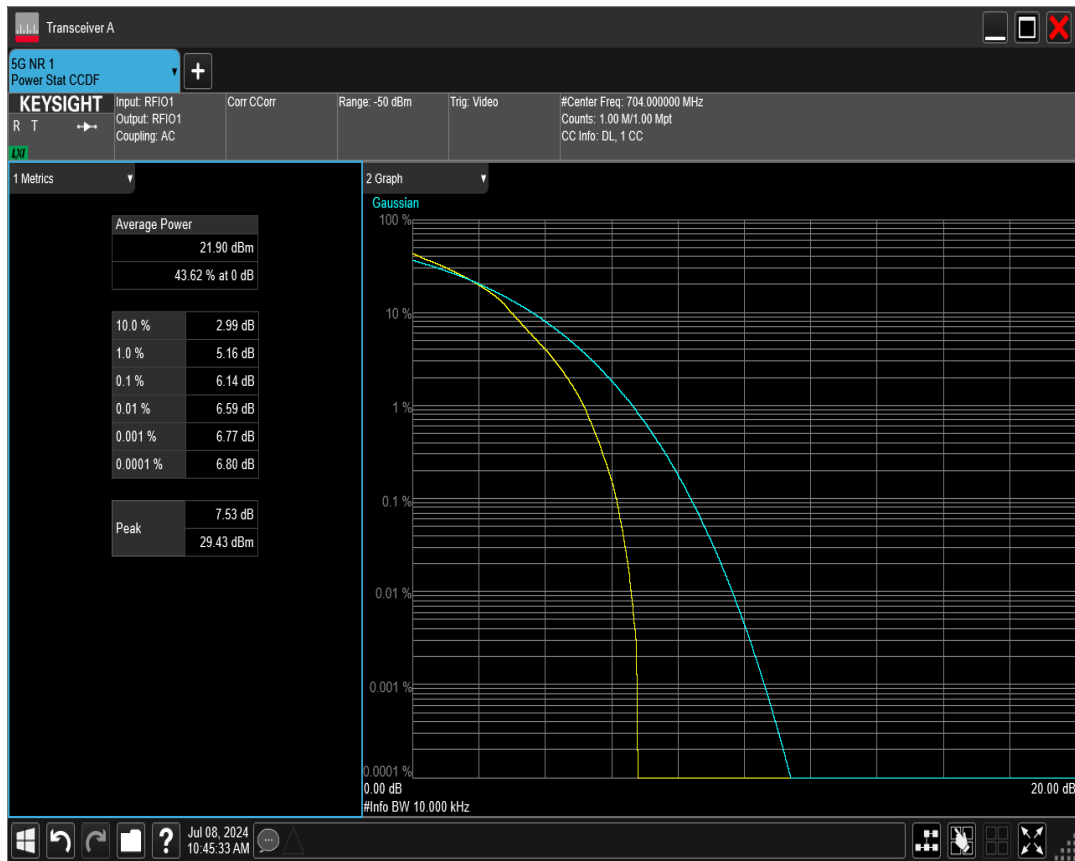
n12 SCS=15kHz DFT_BPSK BW=5MHz Channel=141500 RB=25@0



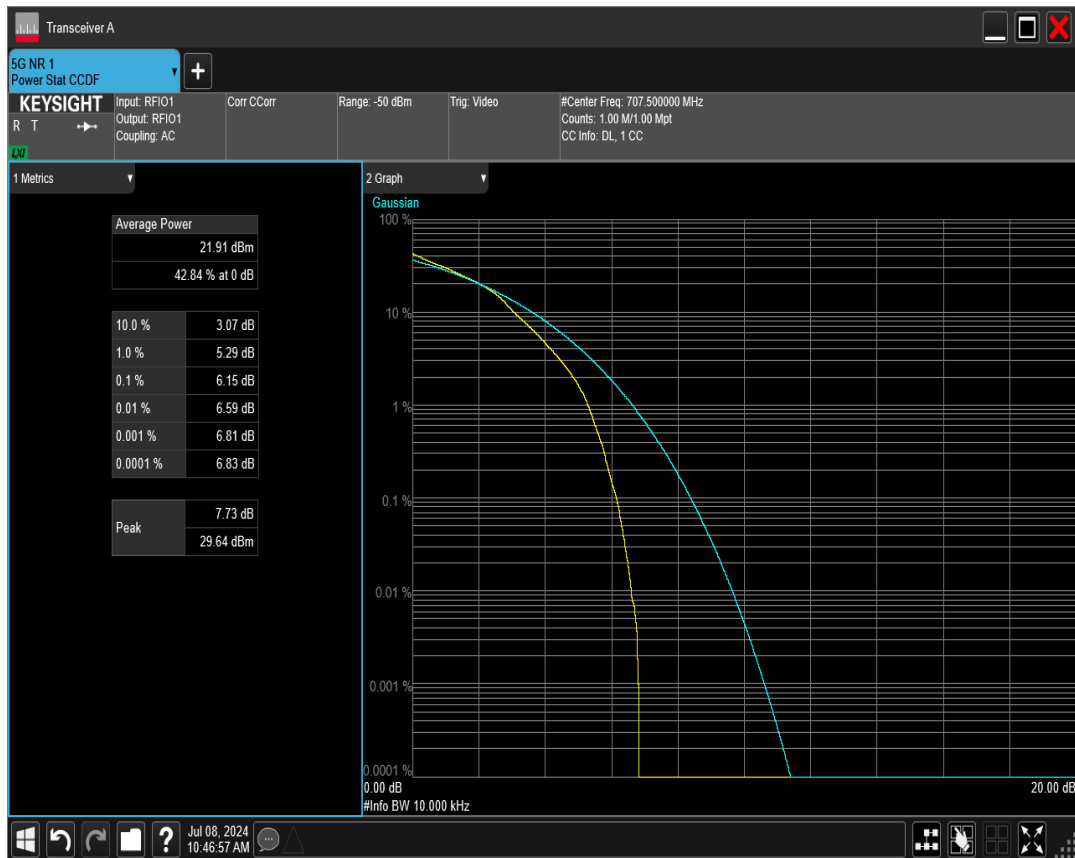
n12 SCS=15kHz DFT_BPSK BW=5MHz Channel=142700 RB=25@0



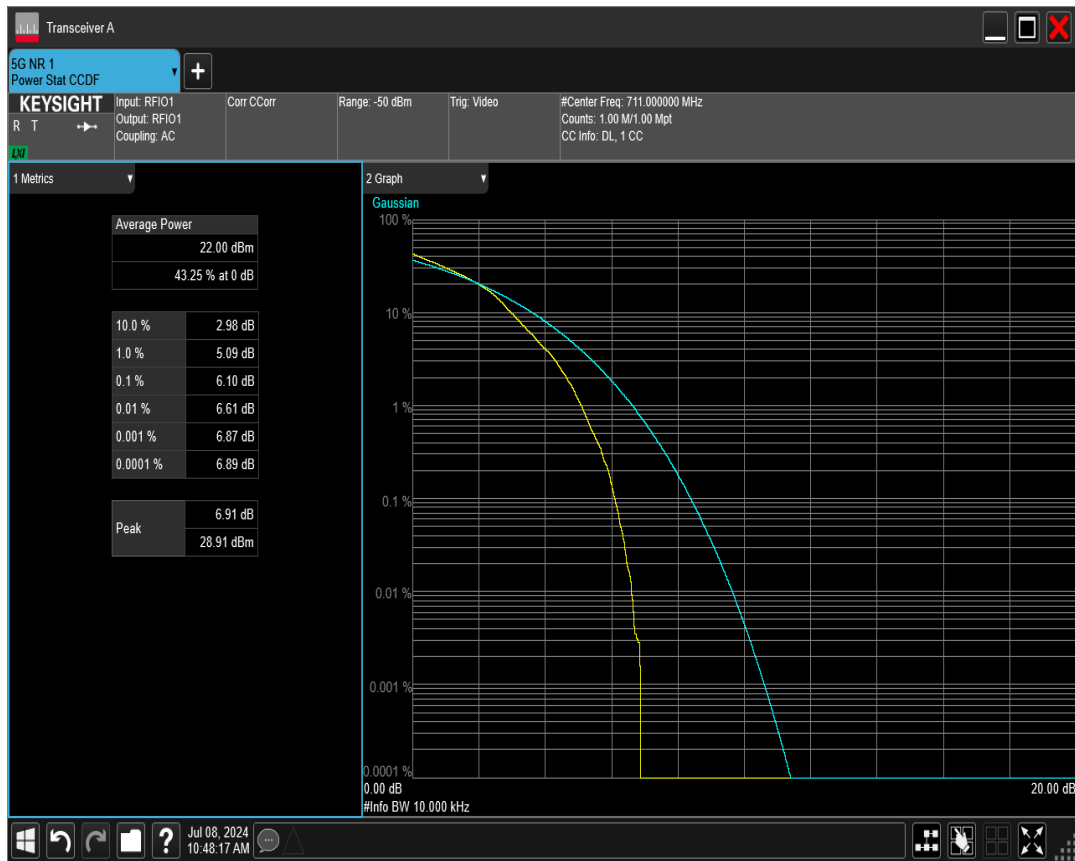
n12 SCS=15kHz DFT_QAM16 BW=10MHz Channel=140800 RB=50@0



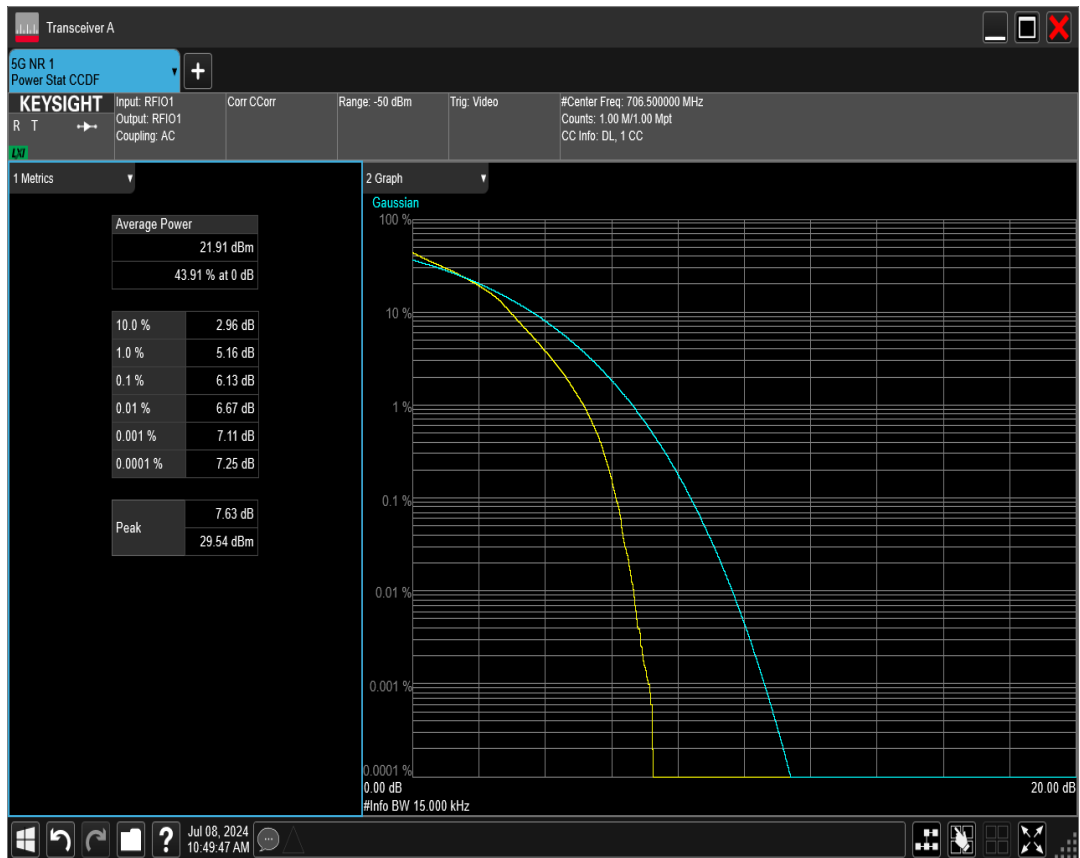
n12 SCS=15kHz DFT_QAM16 BW=10MHz Channel=141500 RB=50@0



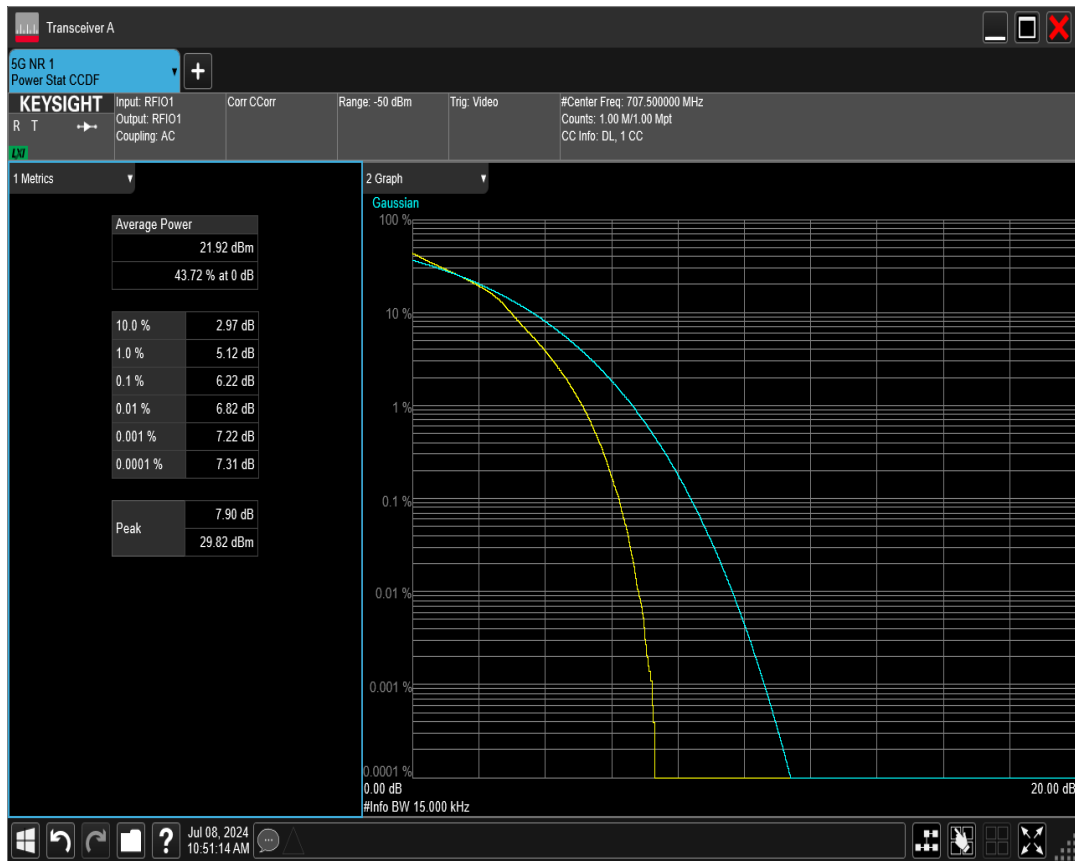
n12 SCS=15kHz DFT_QAM16 BW=10MHz Channel=142200 RB=50@0



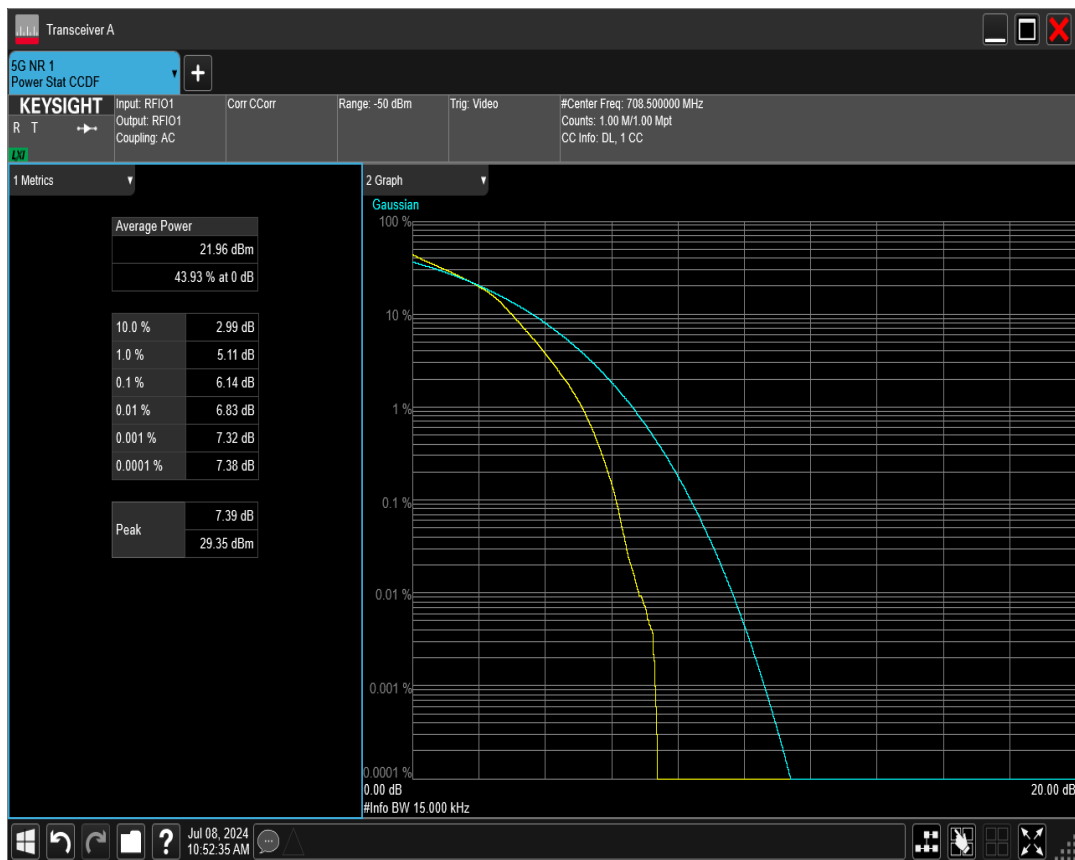
n12 SCS=15kHz DFT_QAM16 BW=15MHz Channel=141300 RB=75@0



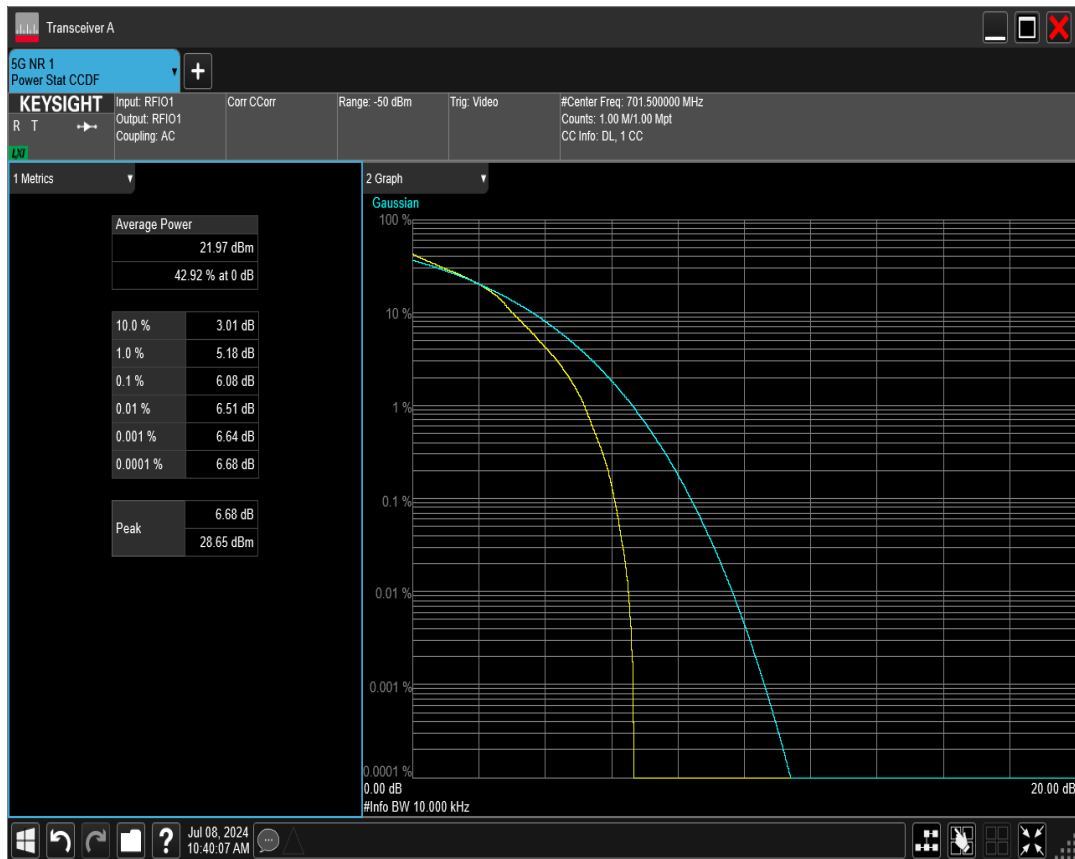
n12 SCS=15kHz DFT_QAM16 BW=15MHz Channel=141500 RB=75@0



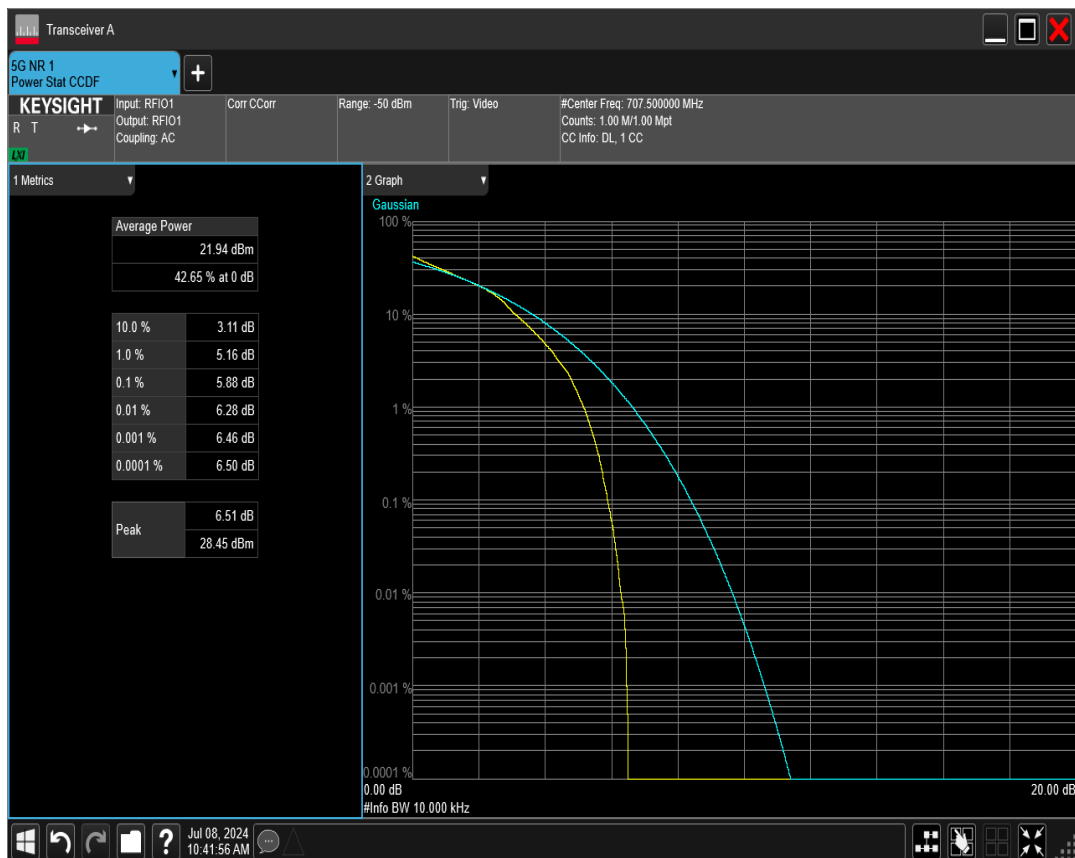
n12 SCS=15kHz DFT_QAM16 BW=15MHz Channel=141700 RB=75@0



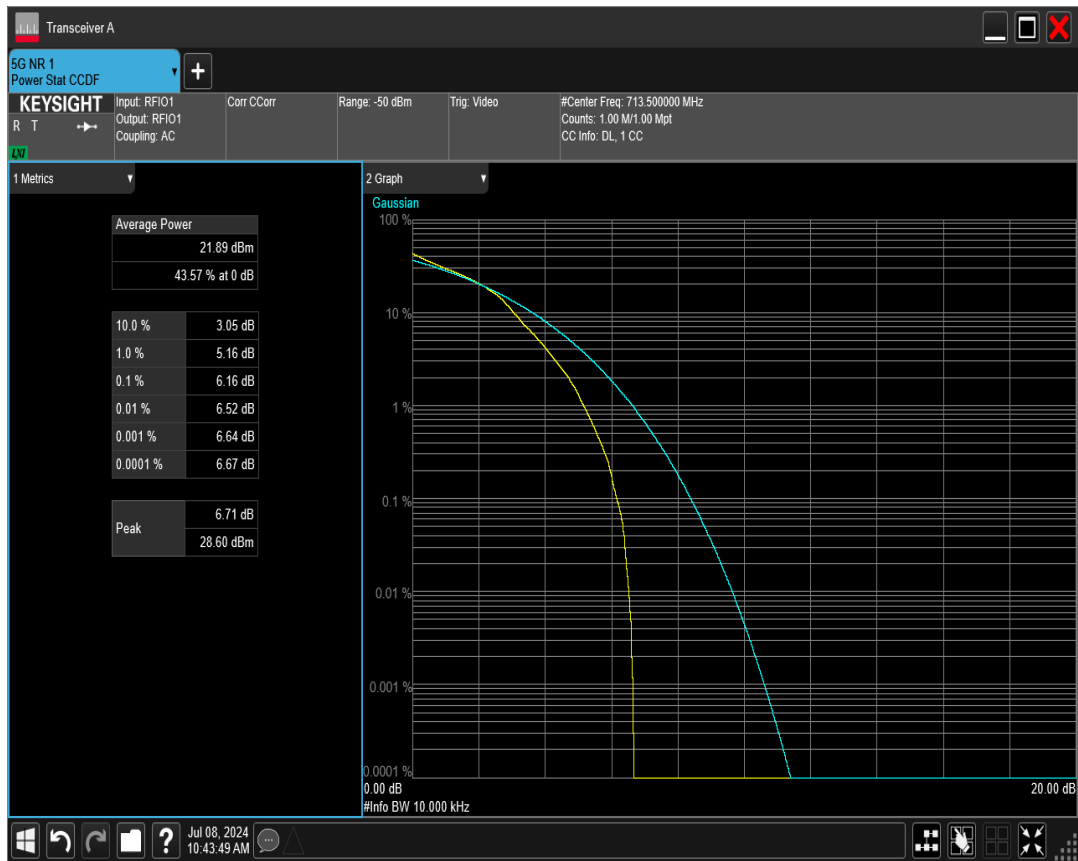
n12 SCS=15kHz DFT_QAM16 BW=5MHz Channel=140300 RB=25@0



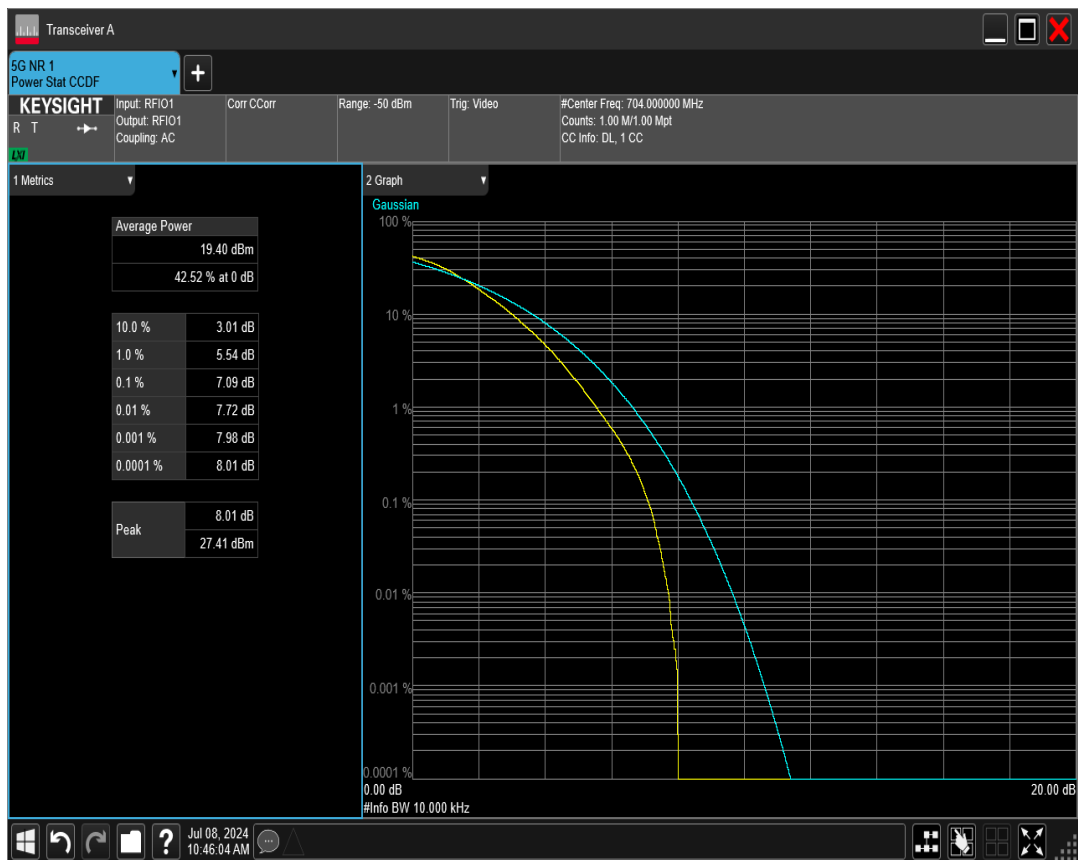
n12 SCS=15kHz DFT_QAM16 BW=5MHz Channel=141500 RB=25@0



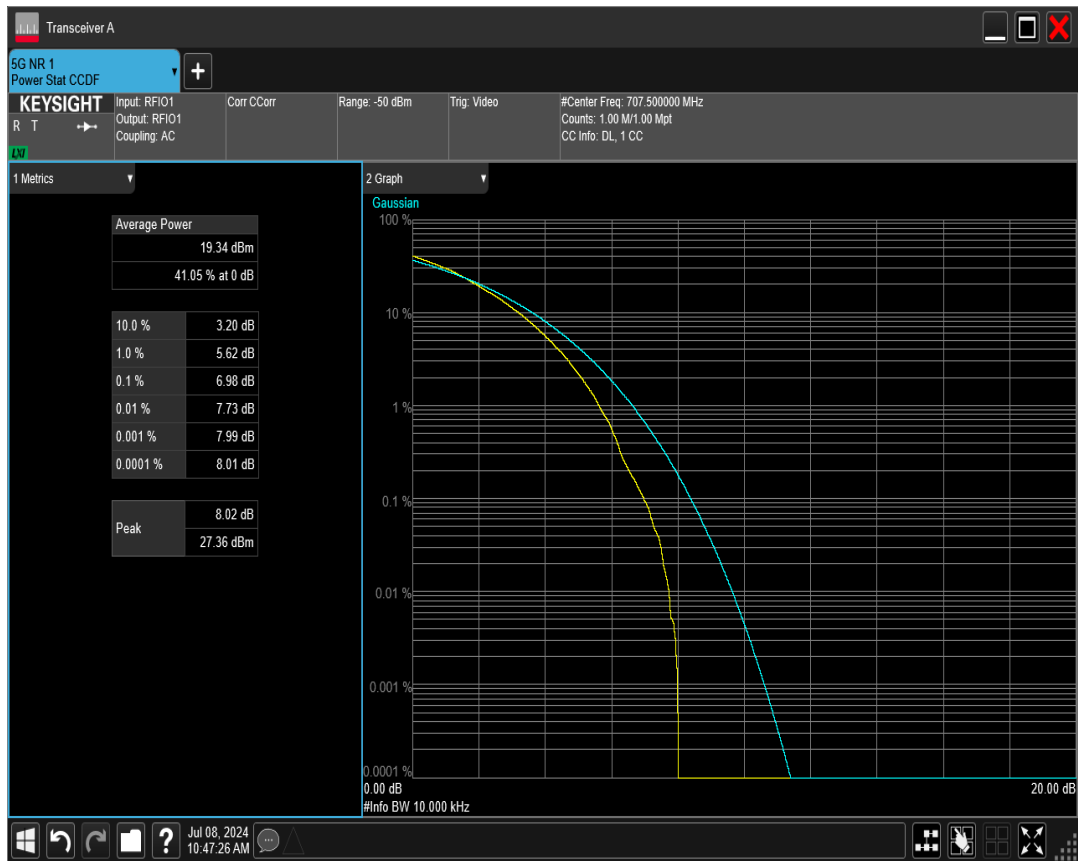
n12 SCS=15kHz DFT_QAM16 BW=5MHz Channel=142700 RB=25@0



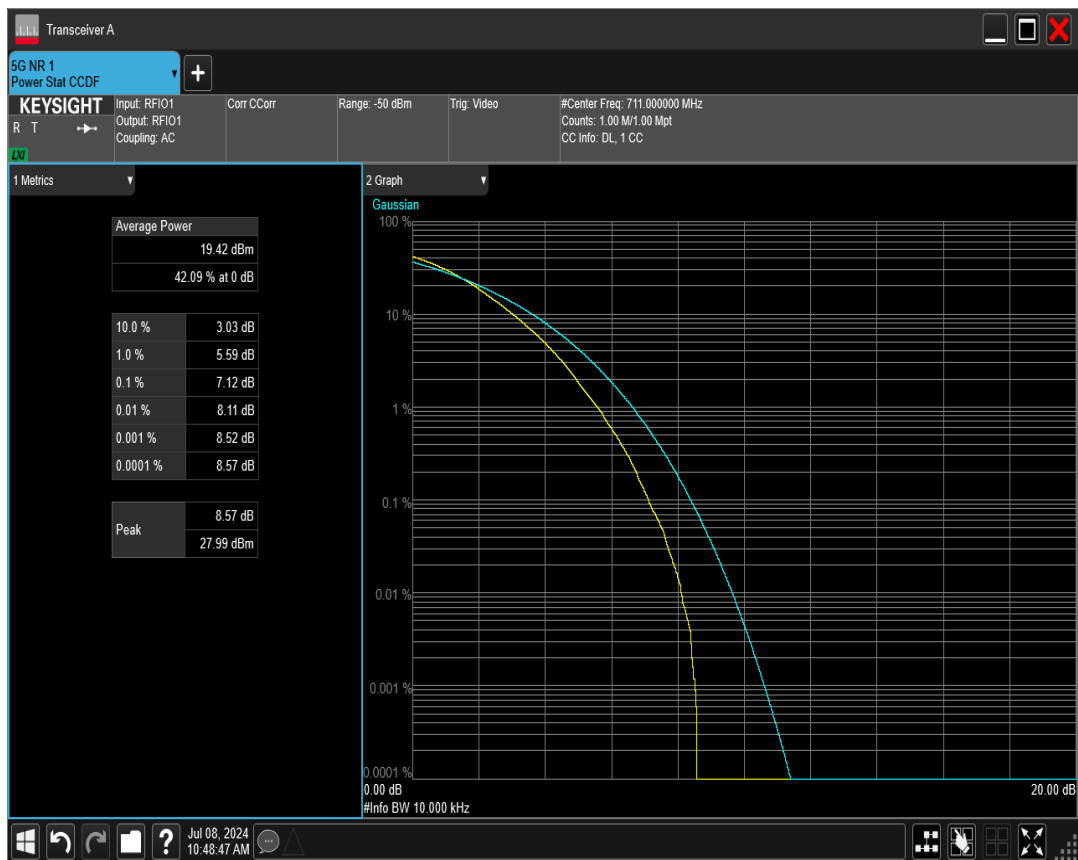
n12 SCS=15kHz DFT_QAM256 BW=10MHz Channel=140800 RB=50@0



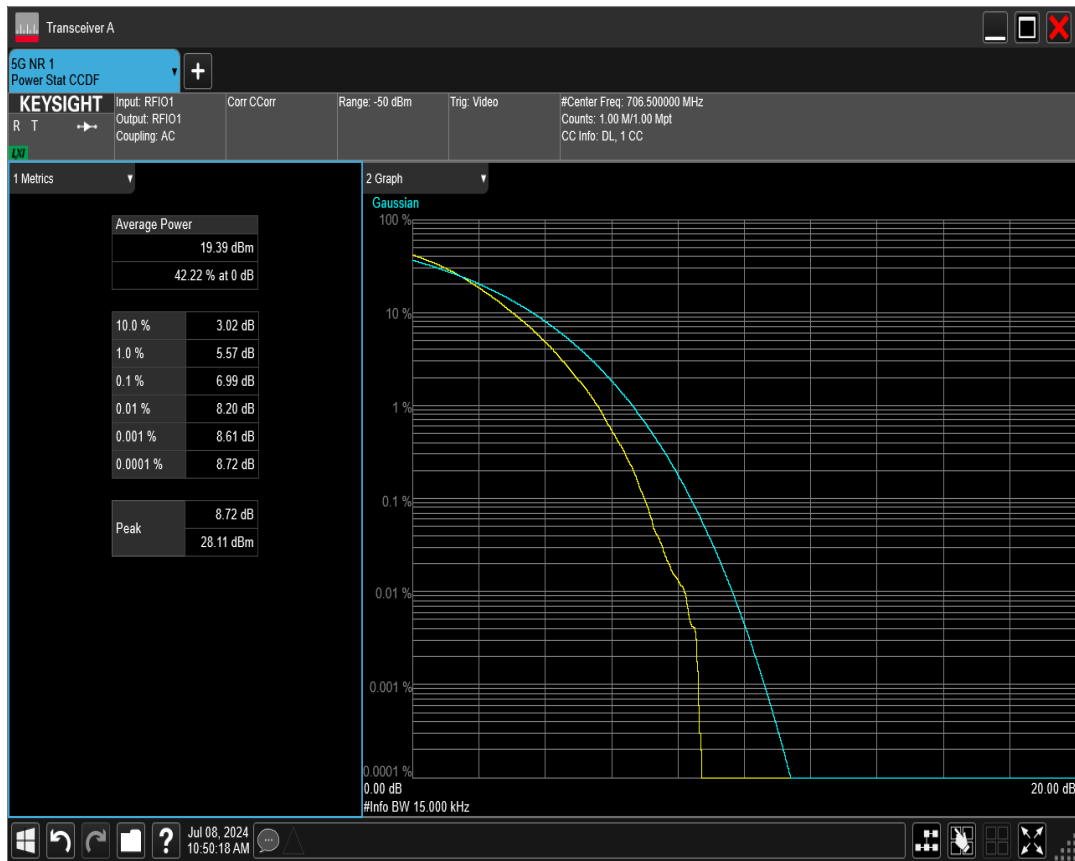
n12 SCS=15kHz DFT_QAM256 BW=10MHz Channel=141500 RB=50@0



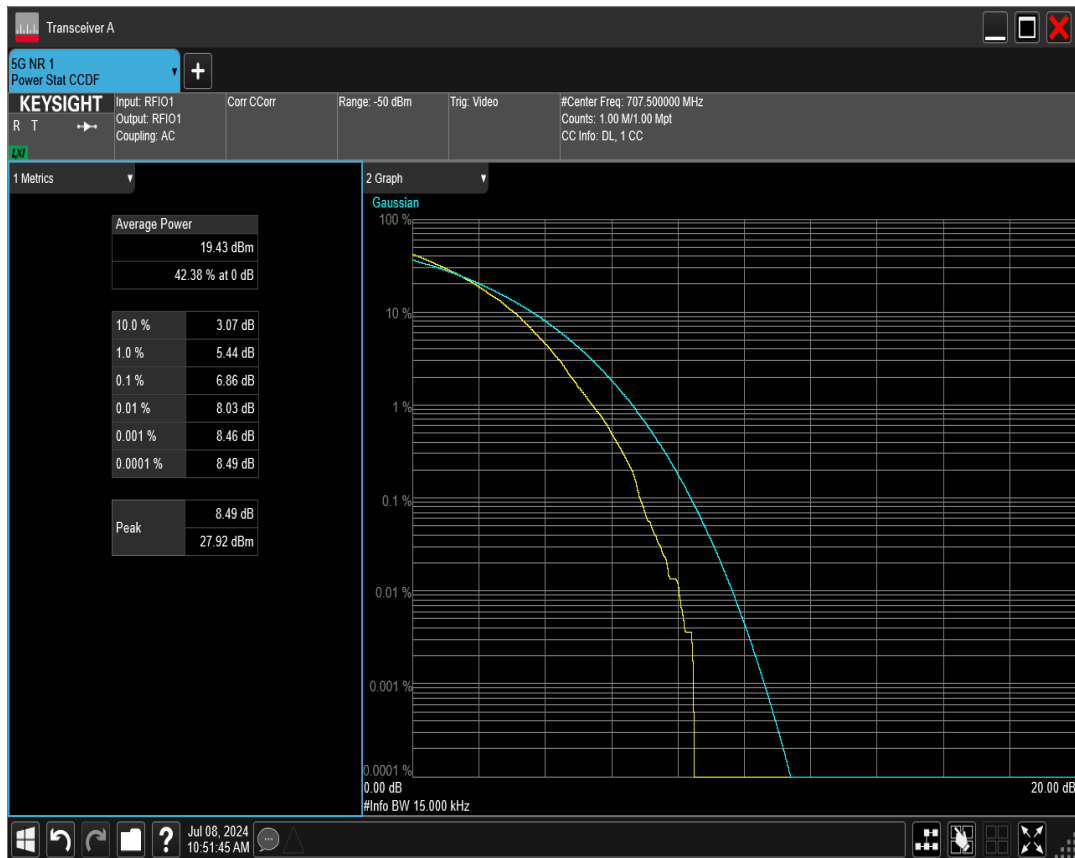
n12 SCS=15kHz DFT_QAM256 BW=10MHz Channel=142200 RB=50@0



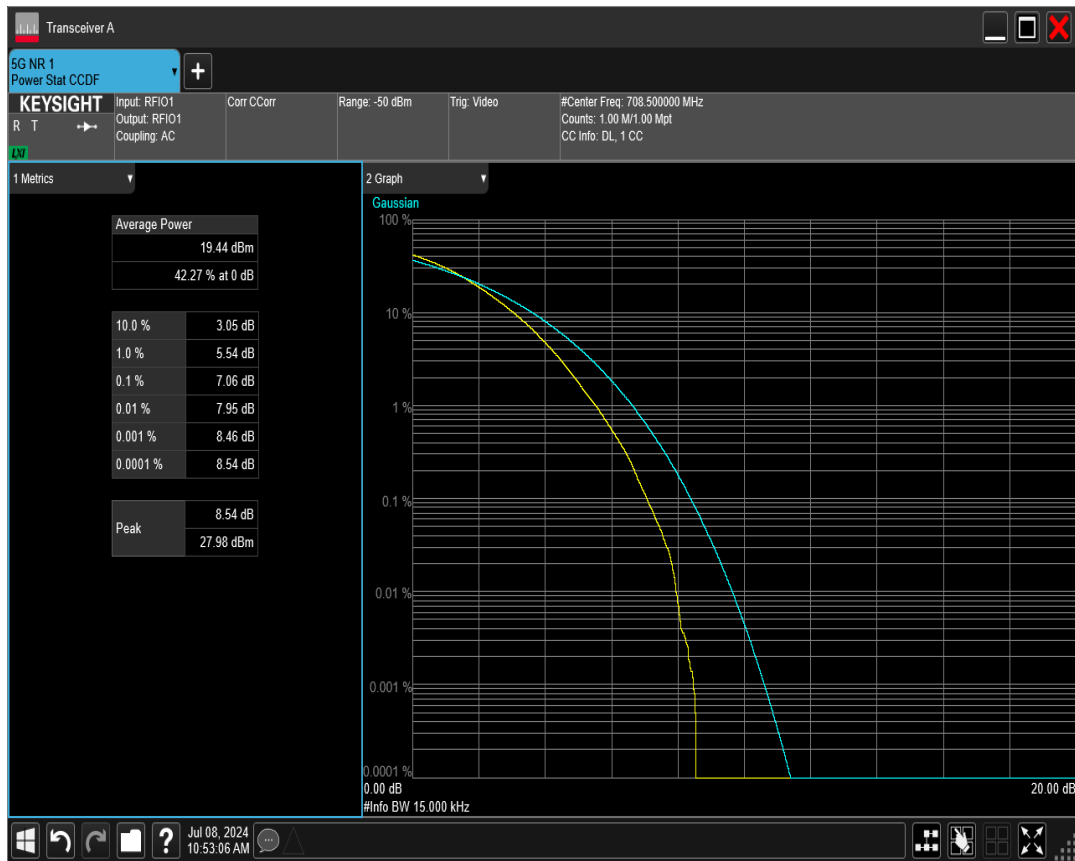
n12 SCS=15kHz DFT_QAM256 BW=15MHz Channel=141300 RB=75@0



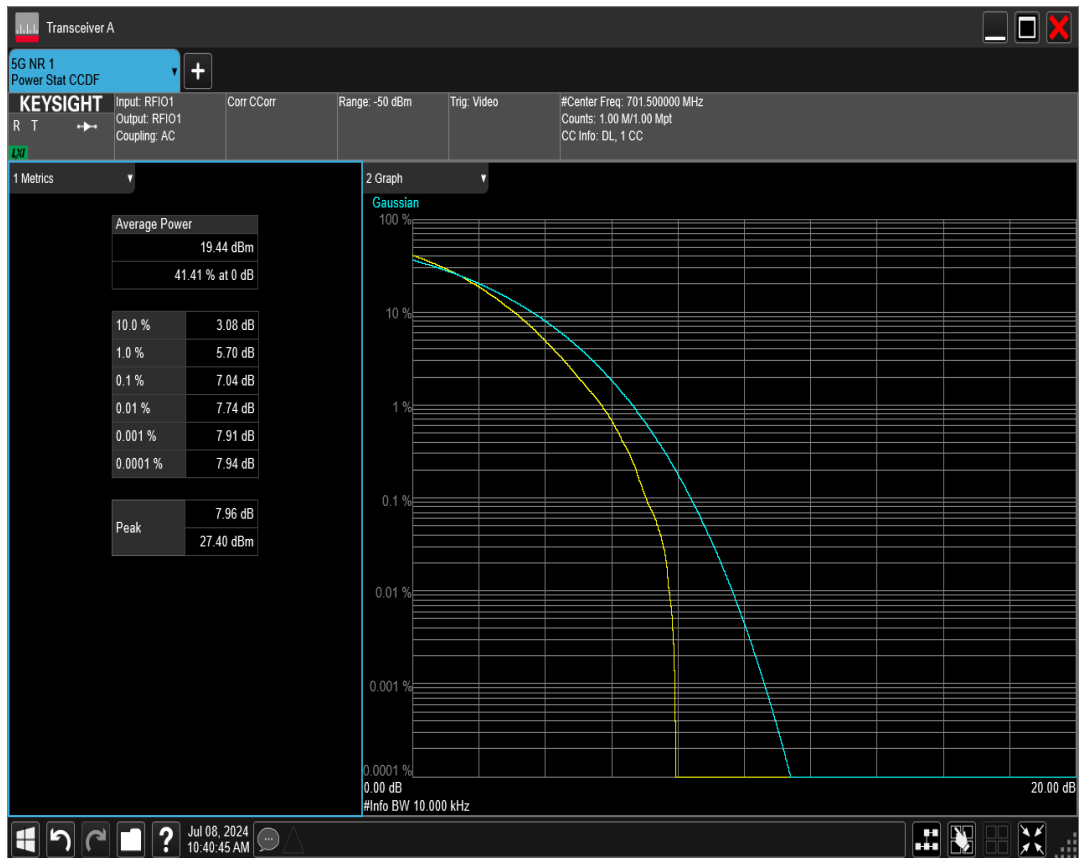
n12 SCS=15kHz DFT_QAM256 BW=15MHz Channel=141500 RB=75@0



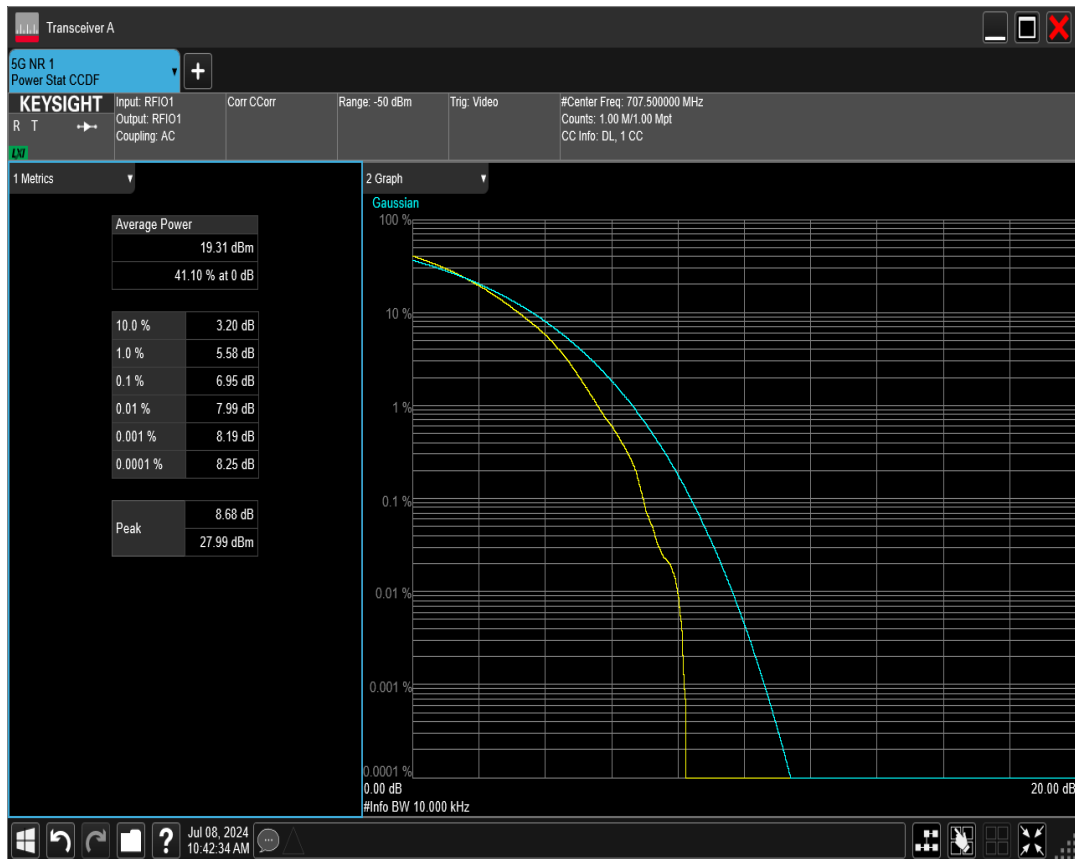
n12 SCS=15kHz DFT_QAM256 BW=15MHz Channel=141700 RB=75@0



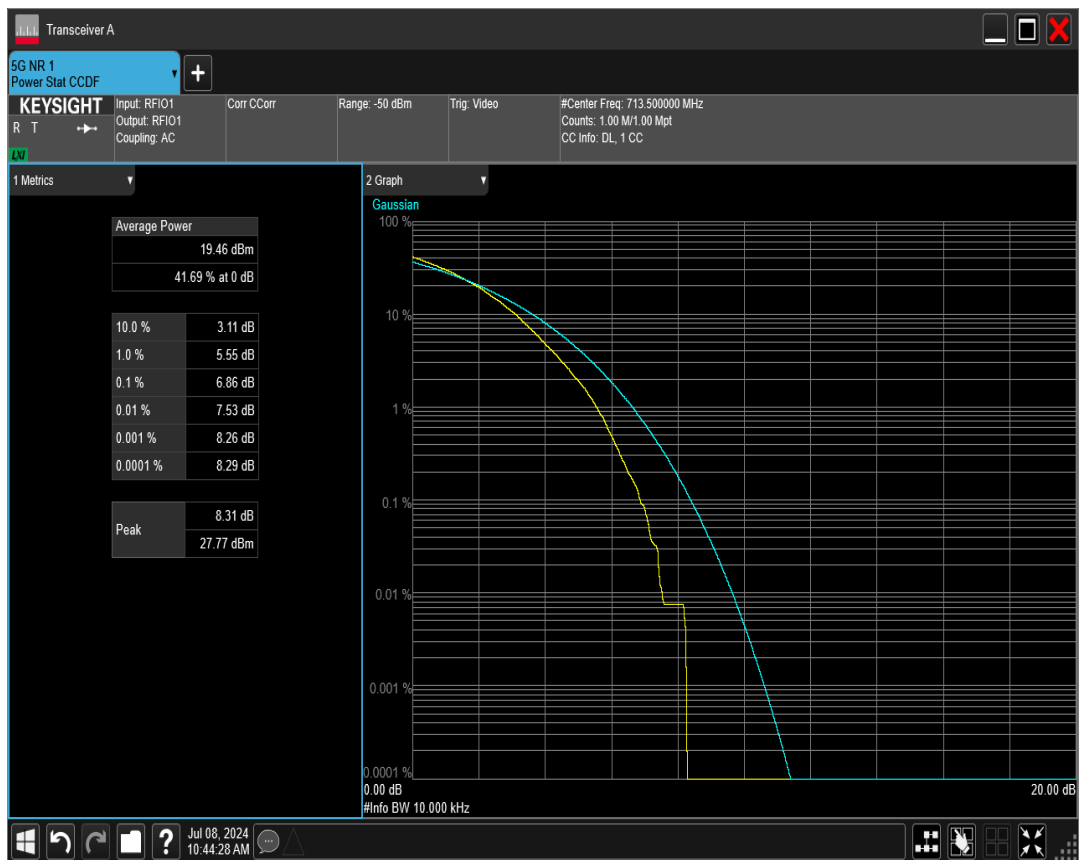
n12 SCS=15kHz DFT_QAM256 BW=5MHz Channel=140300 RB=25@0



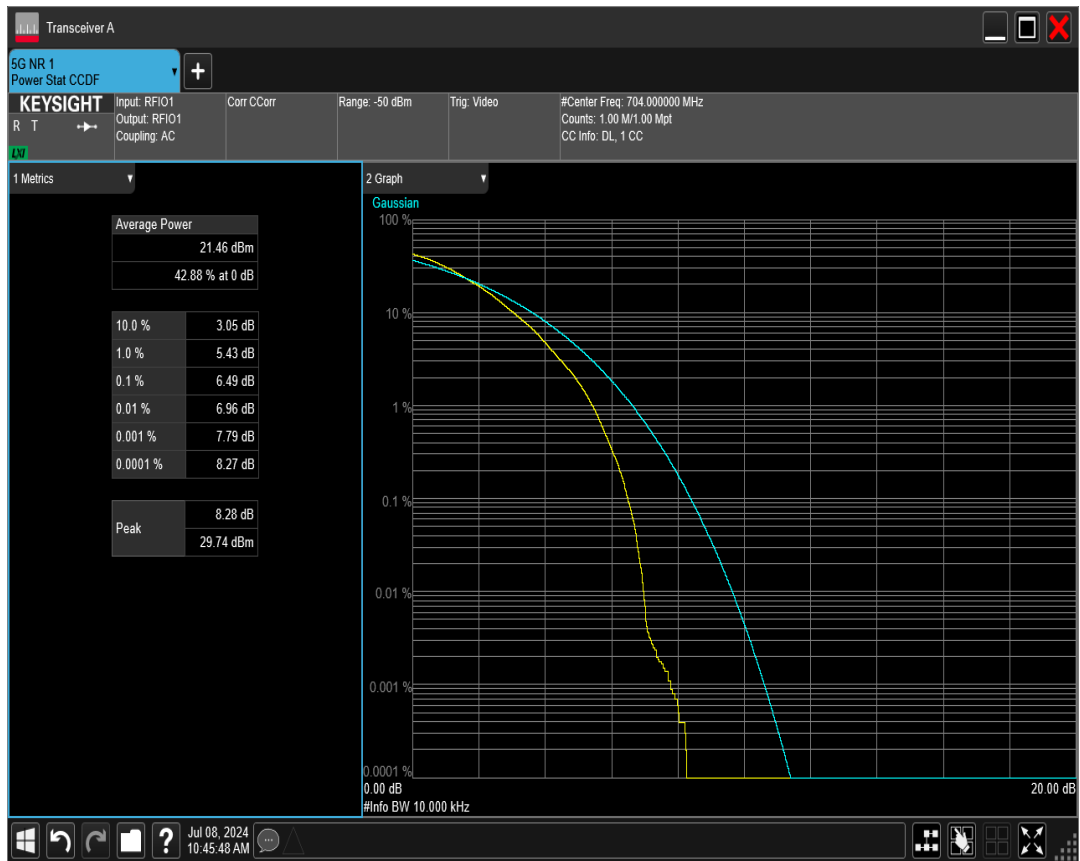
n12 SCS=15kHz DFT_QAM256 BW=5MHz Channel=141500 RB=25@0



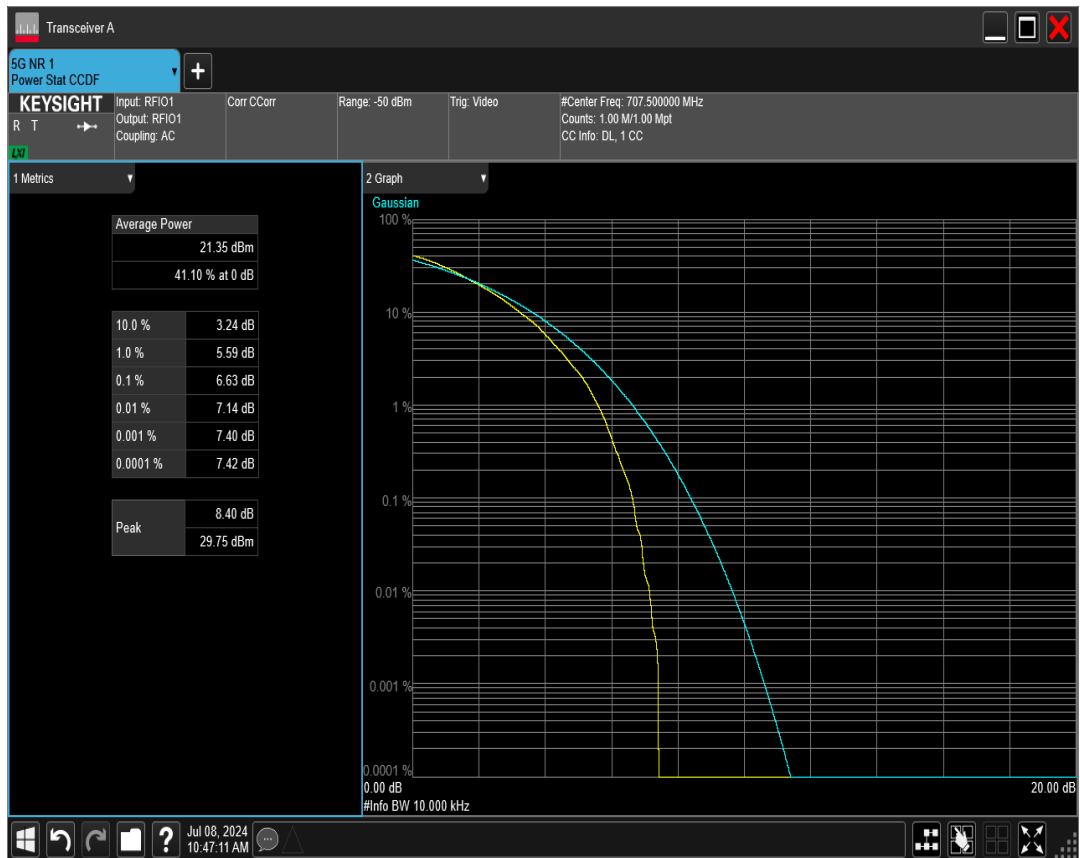
n12 SCS=15kHz DFT_QAM256 BW=5MHz Channel=142700 RB=25@0



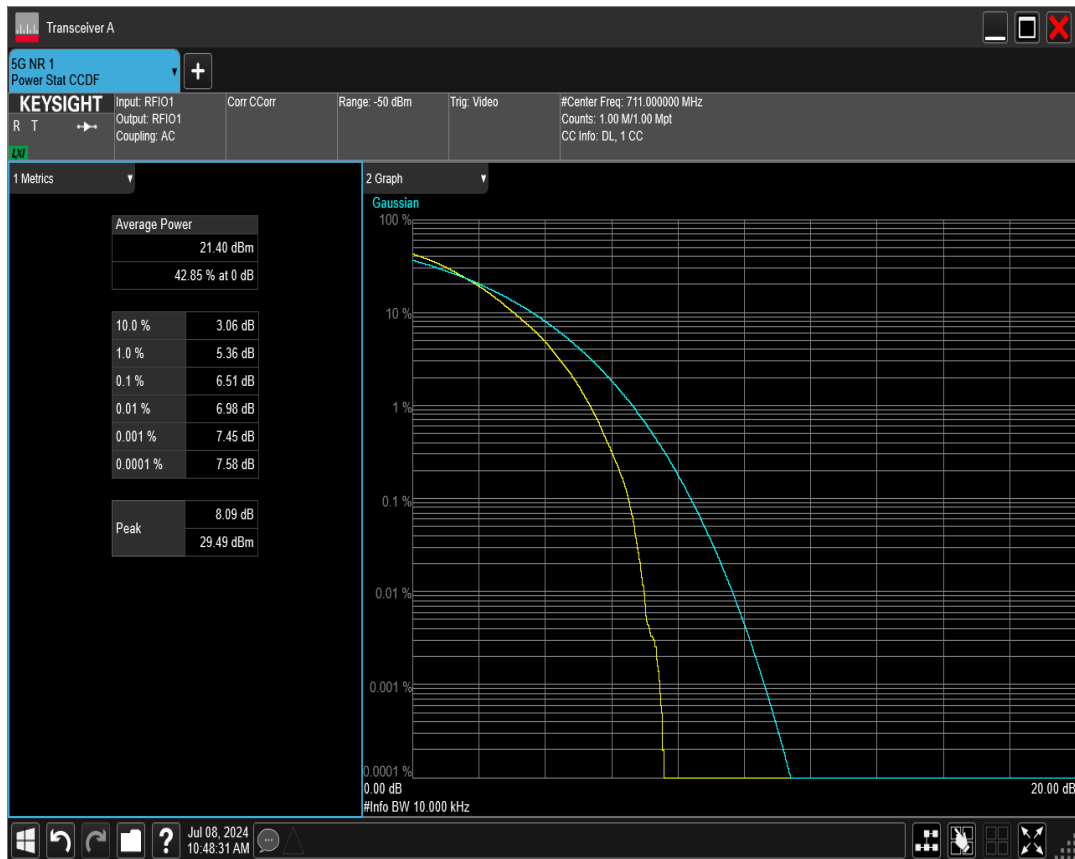
n12 SCS=15kHz DFT_QAM64 BW=10MHz Channel=140800 RB=50@0



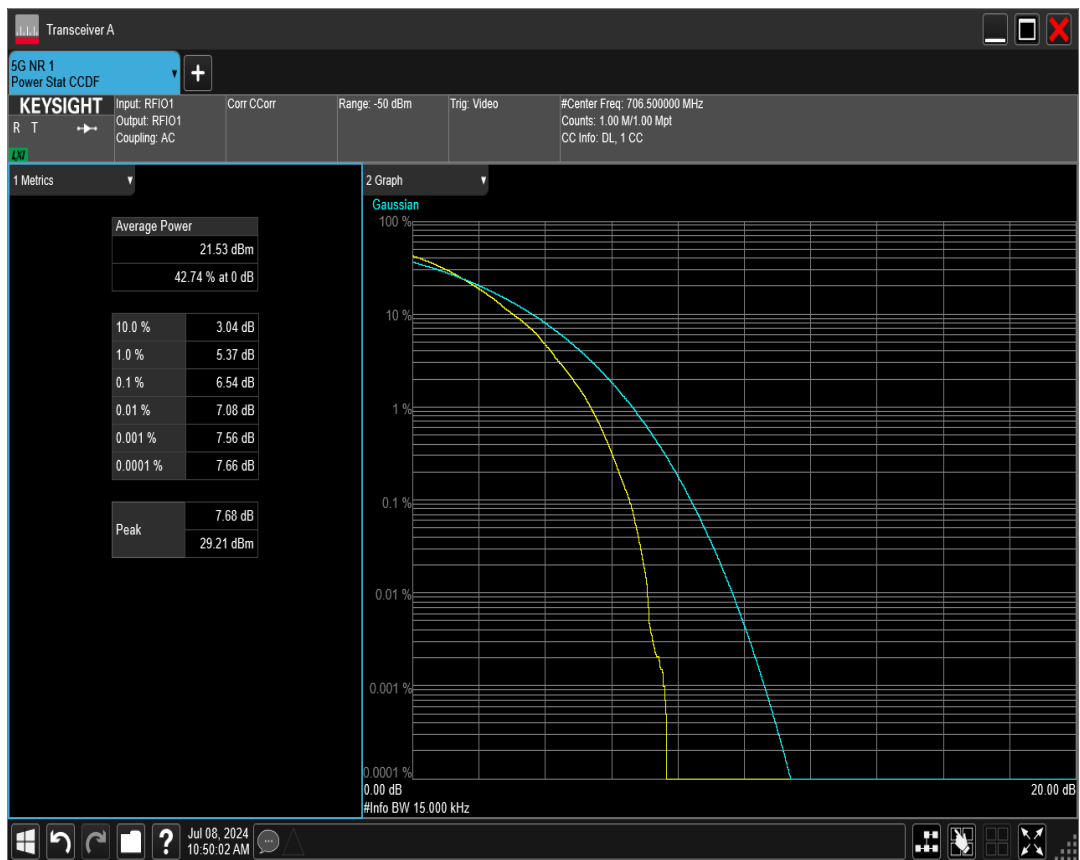
n12 SCS=15kHz DFT_QAM64 BW=10MHz Channel=141500 RB=50@0



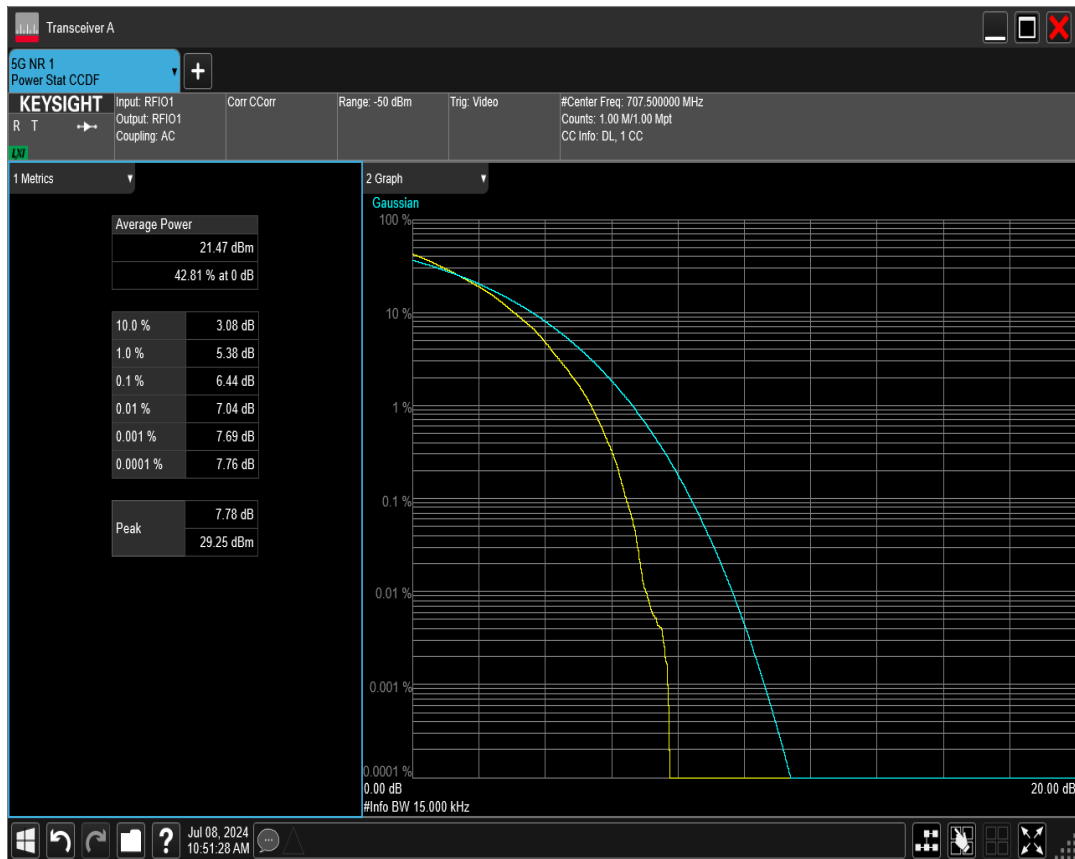
n12 SCS=15kHz DFT_QAM64 BW=10MHz Channel=142200 RB=50@0



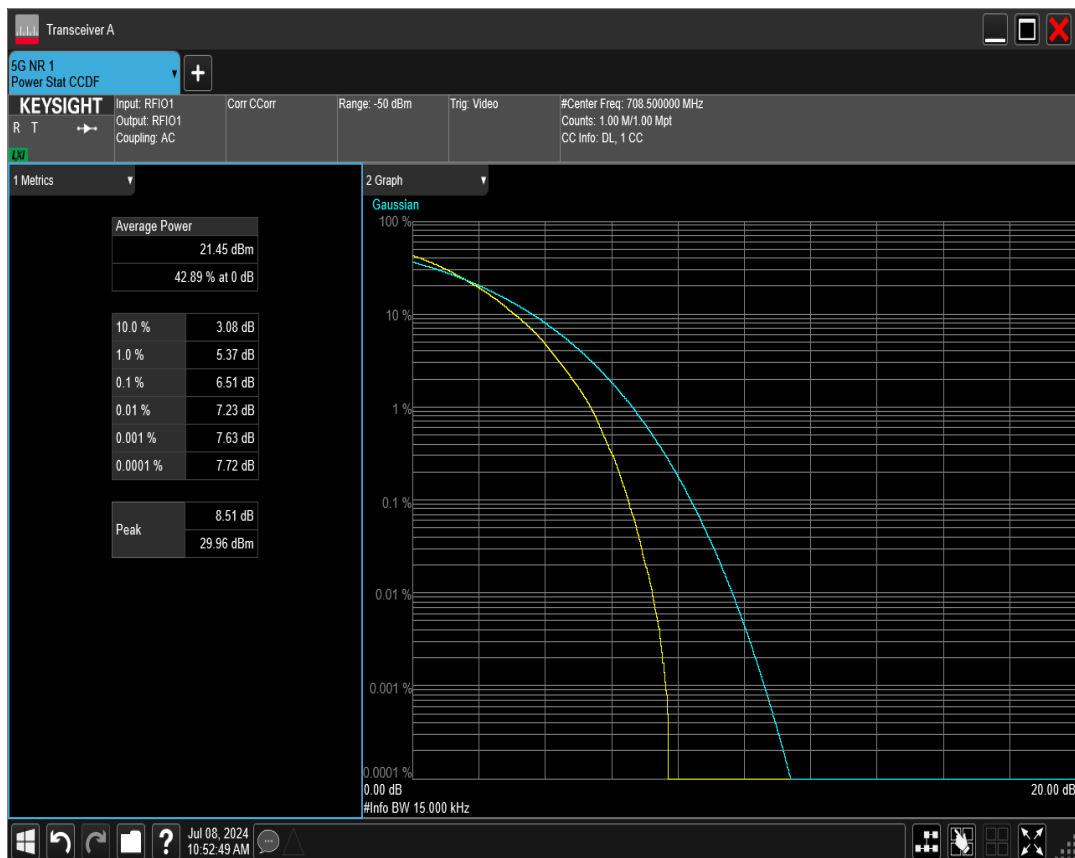
n12 SCS=15kHz DFT_QAM64 BW=15MHz Channel=141300 RB=75@0



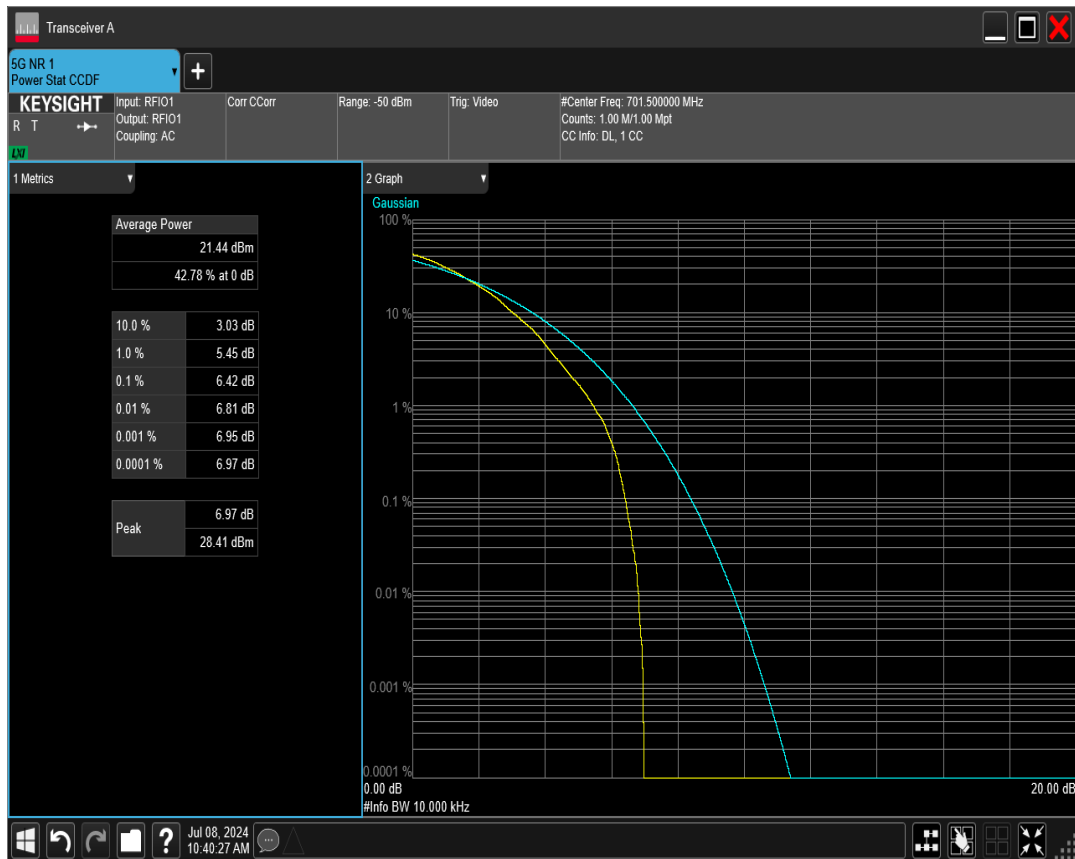
n12 SCS=15kHz DFT_QAM64 BW=15MHz Channel=141500 RB=75@0



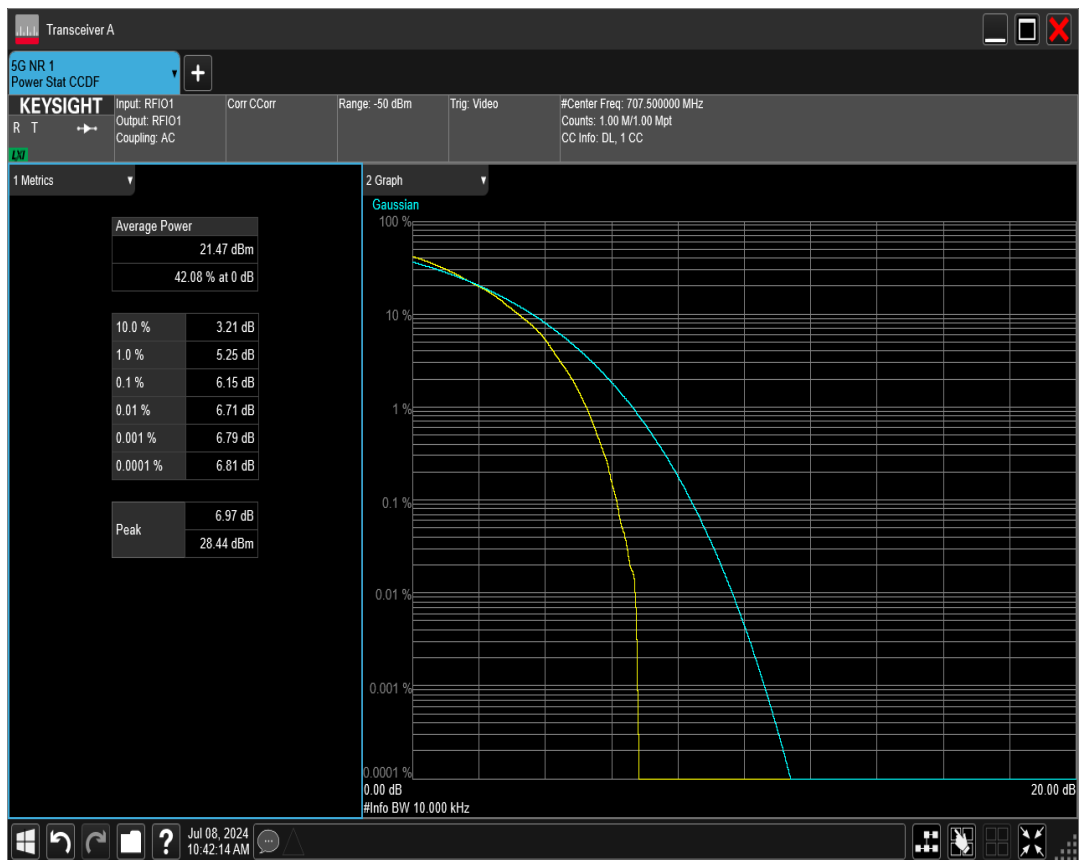
n12 SCS=15kHz DFT_QAM64 BW=15MHz Channel=141700 RB=75@0



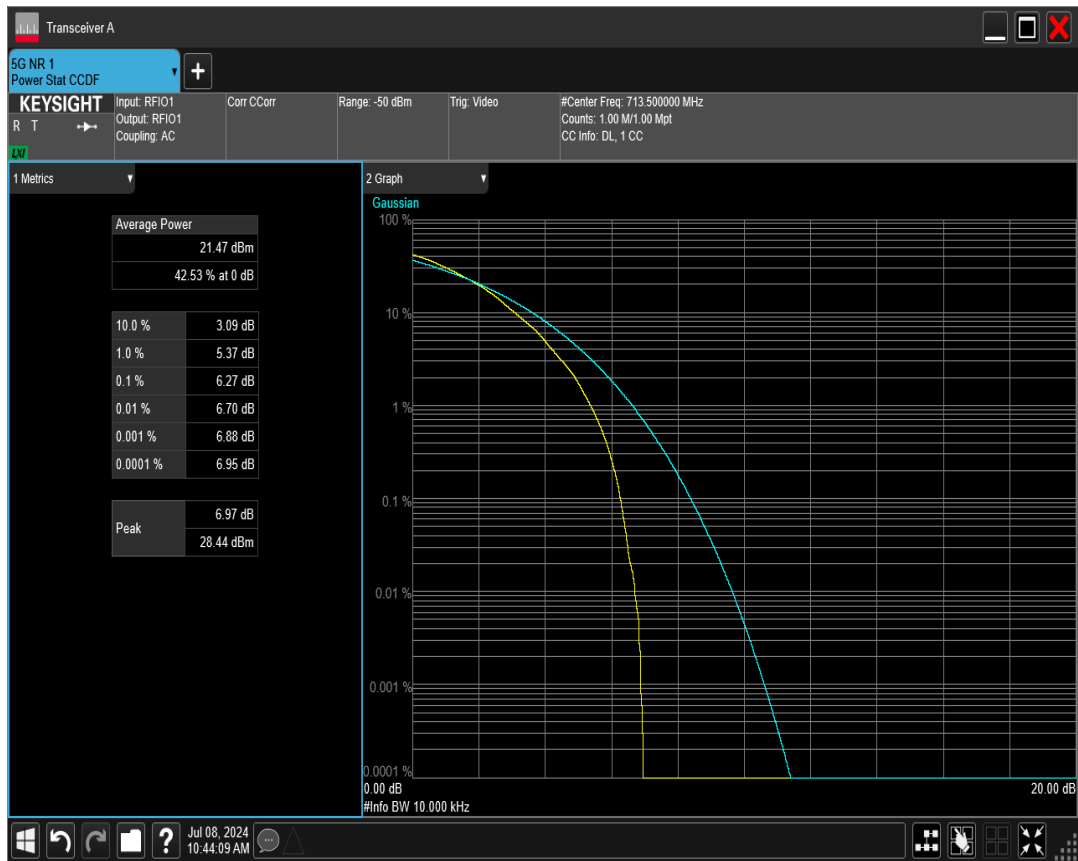
n12 SCS=15kHz DFT_QAM64 BW=5MHz Channel=140300 RB=25@0



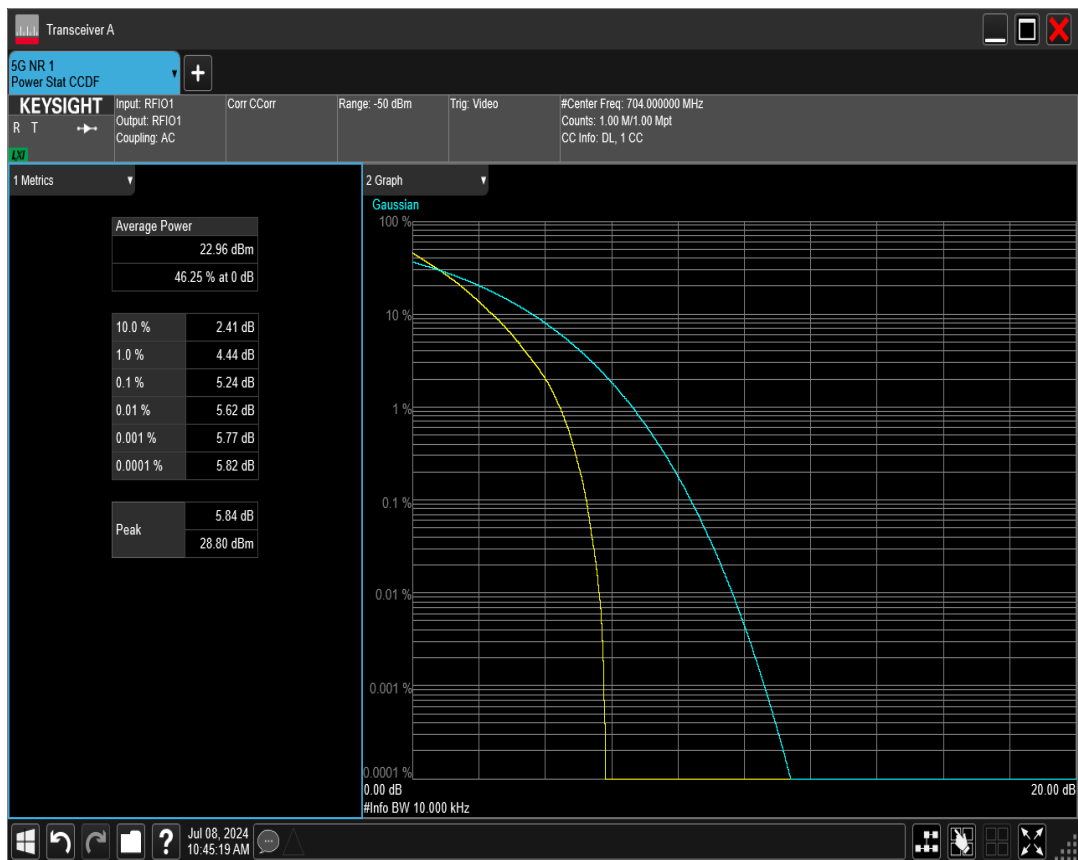
n12 SCS=15kHz DFT_QAM64 BW=5MHz Channel=141500 RB=25@0



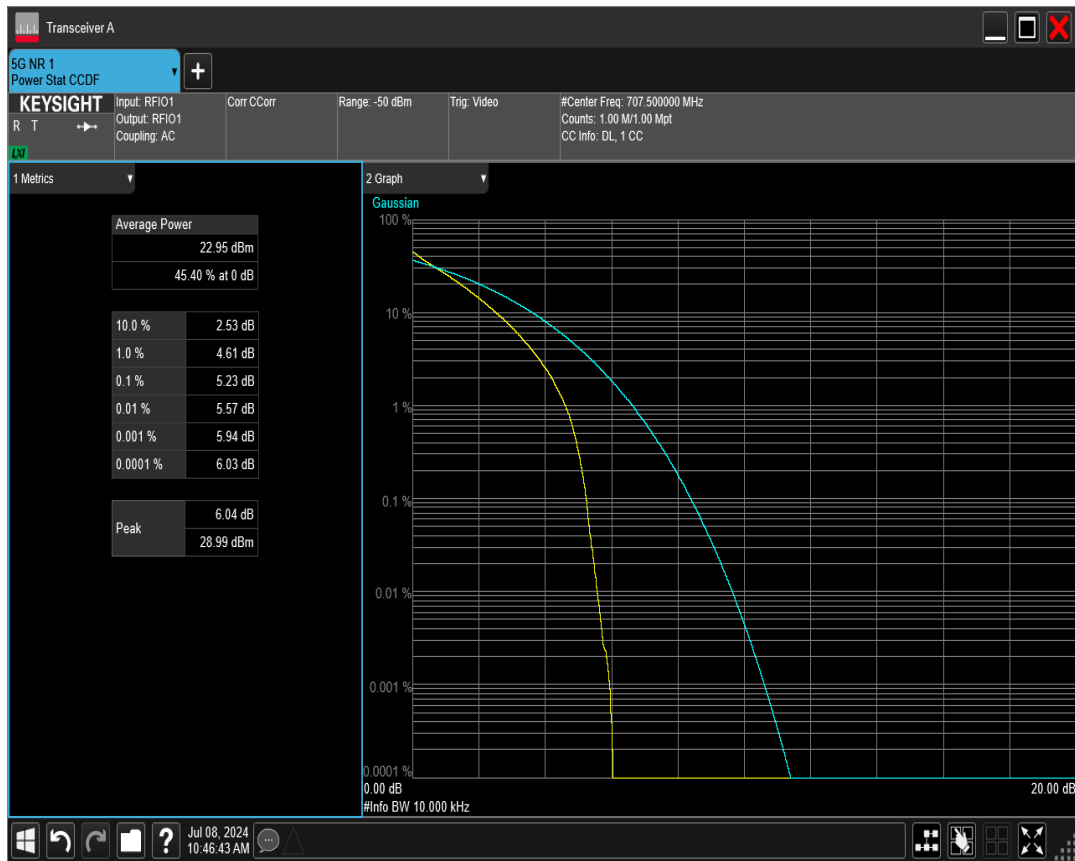
n12 SCS=15kHz DFT_QAM64 BW=5MHz Channel=142700 RB=25@0



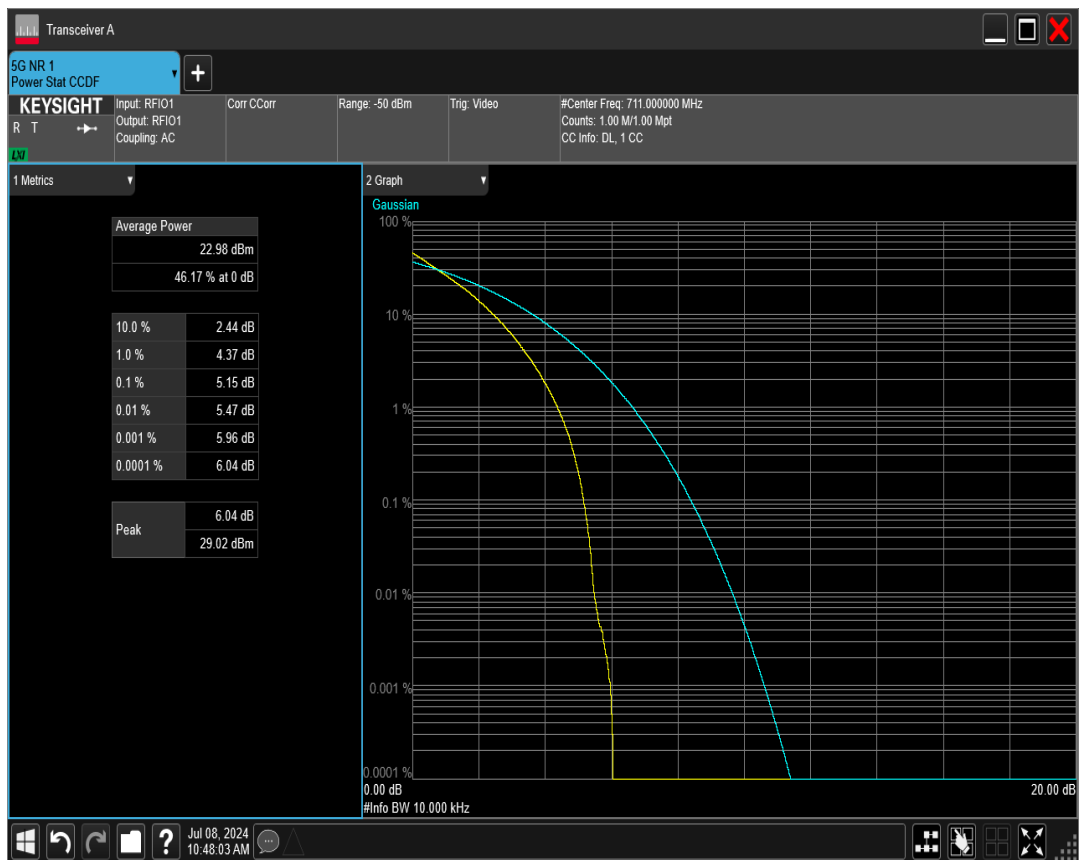
n12 SCS=15kHz DFT_QPSK BW=10MHz Channel=140800 RB=50@0



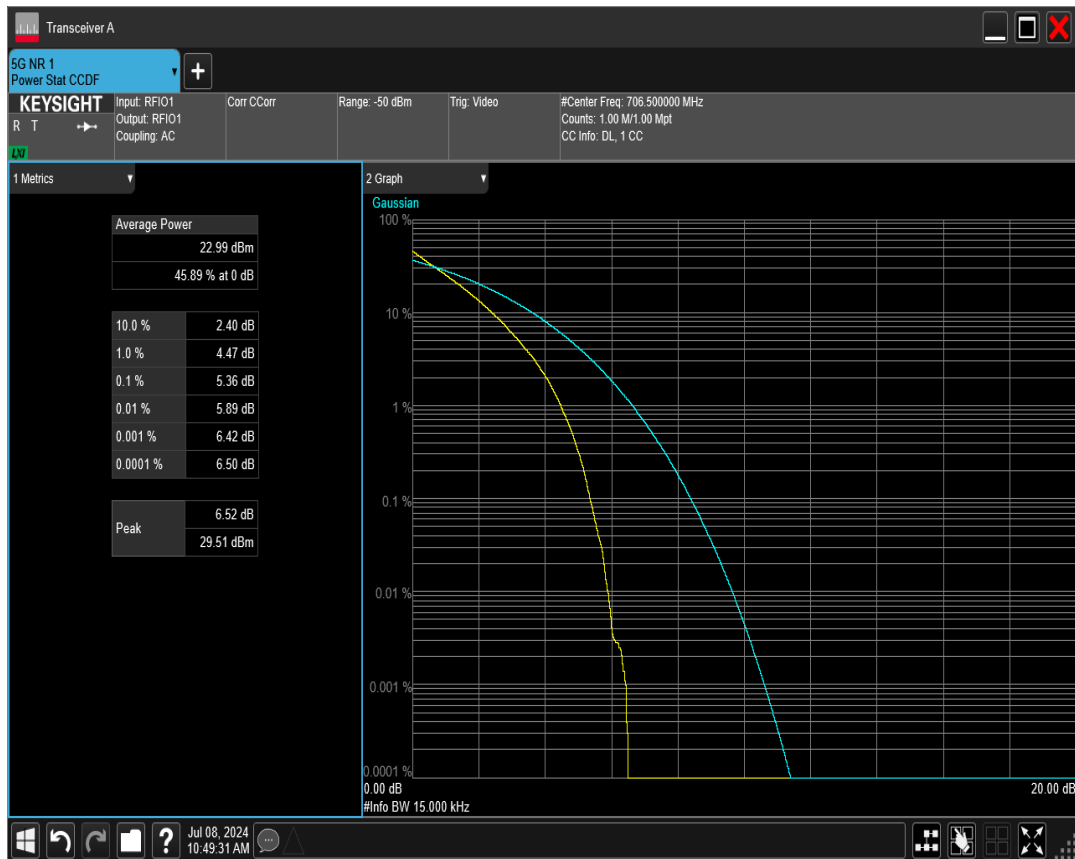
n12 SCS=15kHz DFT_QPSK BW=10MHz Channel=141500 RB=50@0



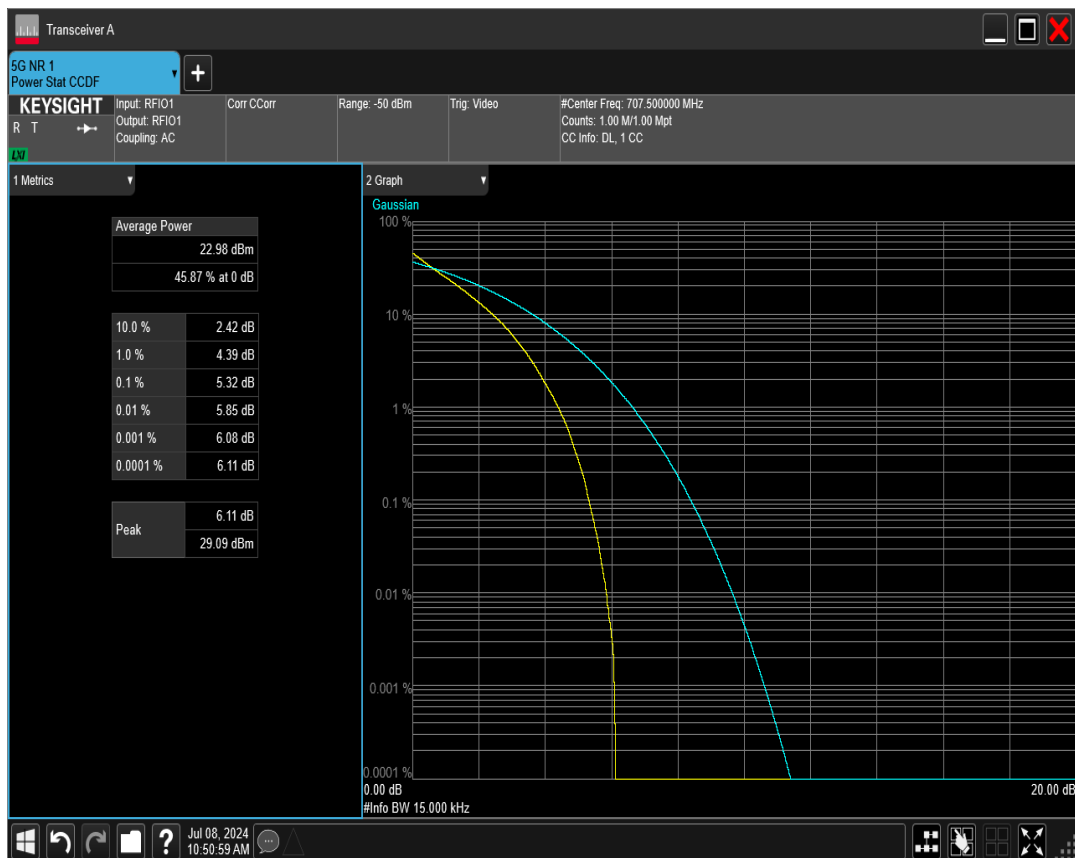
n12 SCS=15kHz DFT_QPSK BW=10MHz Channel=142200 RB=50@0



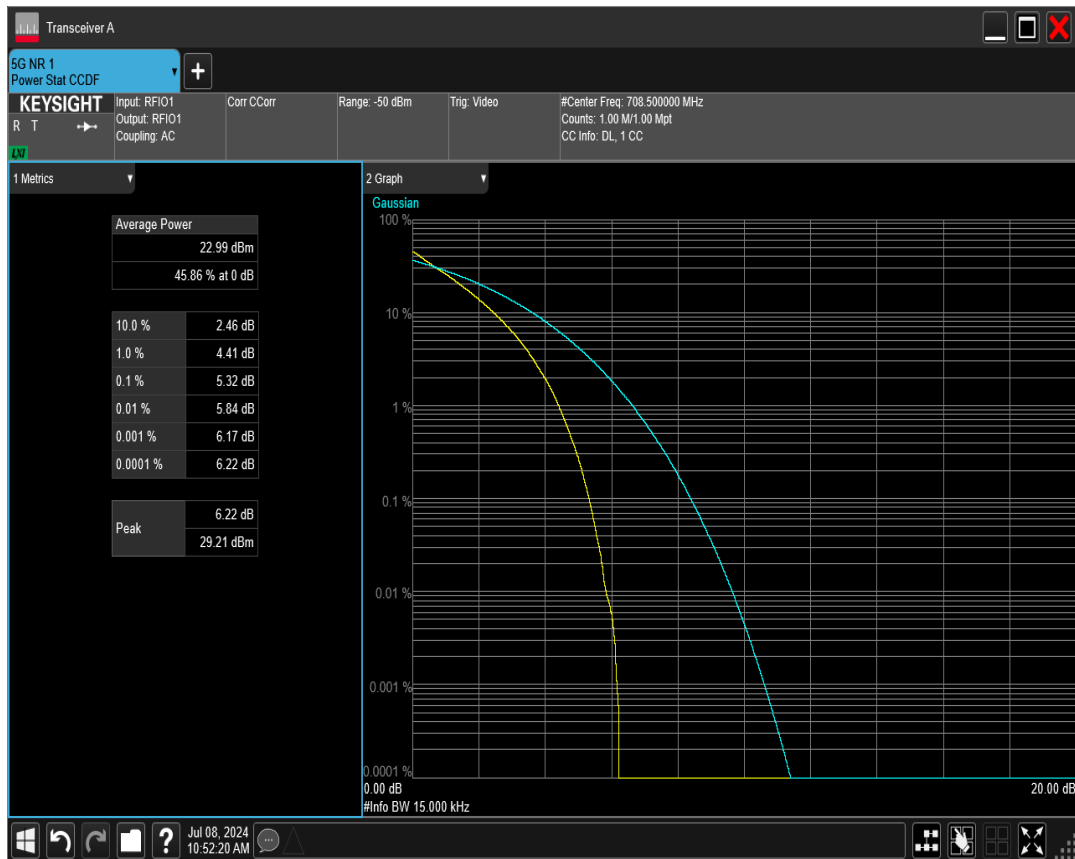
n12 SCS=15kHz DFT_QPSK BW=15MHz Channel=141300 RB=75@0



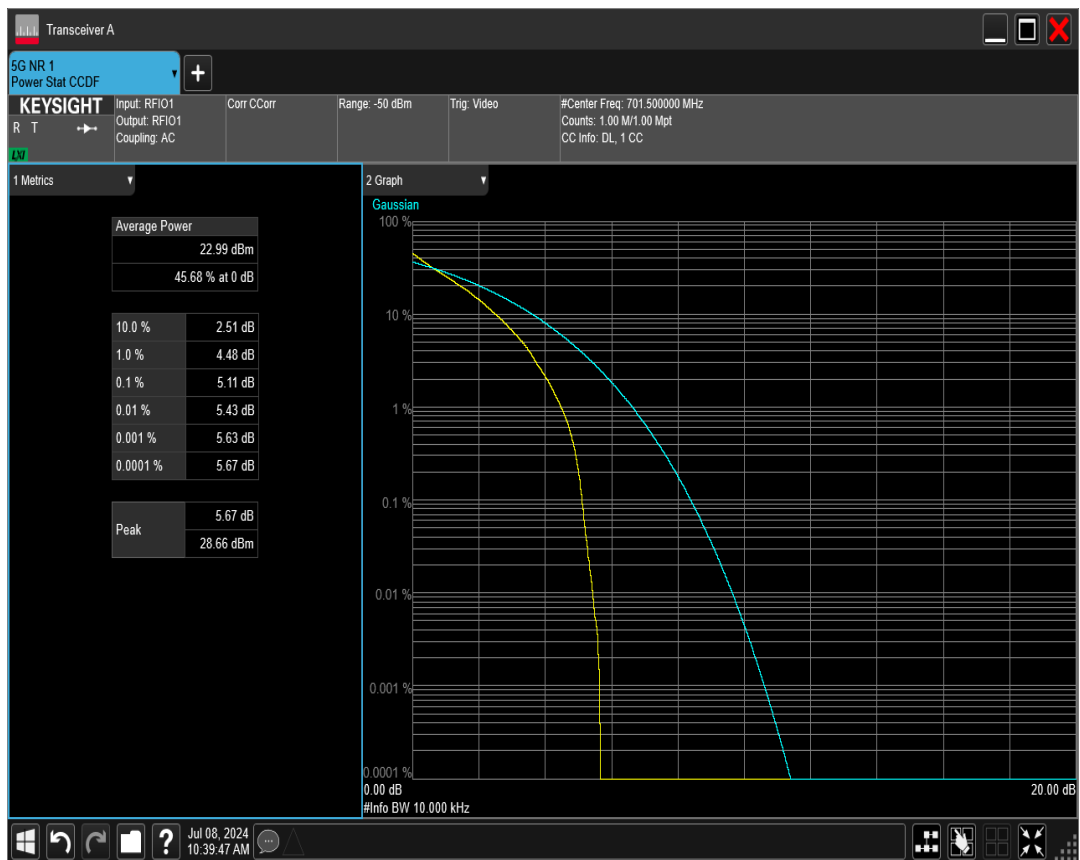
n12 SCS=15kHz DFT_QPSK BW=15MHz Channel=141500 RB=75@0



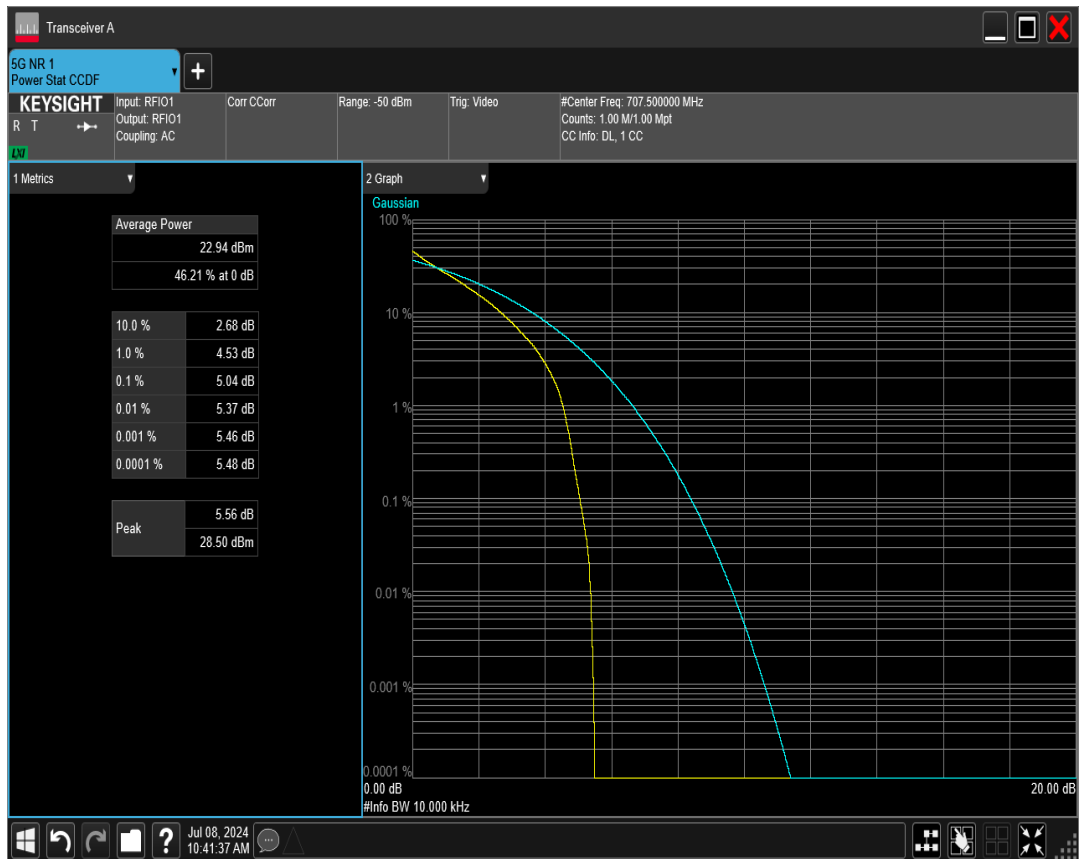
n12 SCS=15kHz DFT_QPSK BW=15MHz Channel=141700 RB=75@0



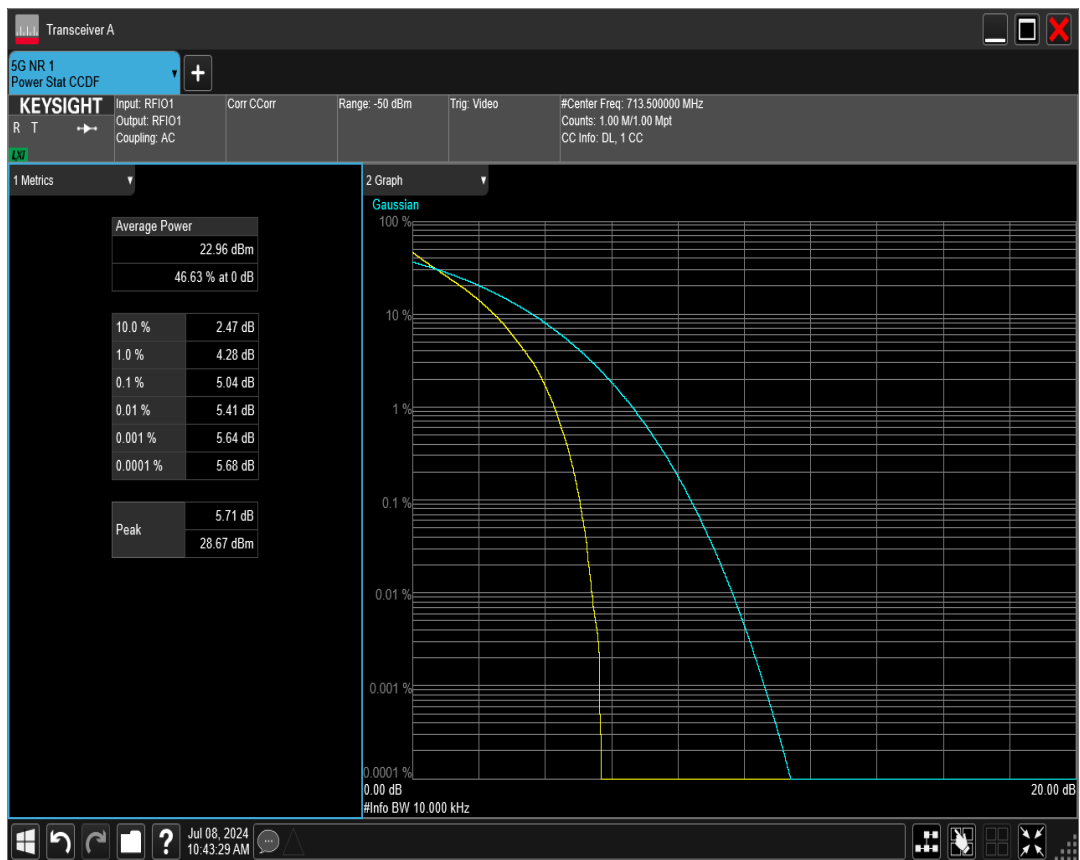
n12 SCS=15kHz DFT_QPSK BW=5MHz Channel=140300 RB=25@0



n12 SCS=15kHz DFT_QPSK BW=5MHz Channel=141500 RB=25@0



n12 SCS=15kHz DFT_QPSK BW=5MHz Channel=142700 RB=25@0



4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n12	15	5	141500	25@0	DFT_BPSK	4.470	4.640	PASS
n12	15	5	141500	25@0	DFT_QPSK	4.470	4.670	PASS
n12	15	5	141500	25@0	DFT_QAM16	4.450	4.620	PASS
n12	15	5	141500	25@0	DFT_QAM64	4.450	4.630	PASS
n12	15	5	141500	25@0	DFT_QAM256	4.470	4.650	PASS
n12	15	10	141500	50@0	DFT_BPSK	9.260	9.140	PASS
n12	15	10	141500	50@0	DFT_QPSK	9.230	9.170	PASS
n12	15	10	141500	50@0	DFT_QAM16	9.150	9.120	PASS
n12	15	10	141500	50@0	DFT_QAM64	9.140	9.090	PASS
n12	15	10	141500	50@0	DFT_QAM256	9.210	9.100	PASS
n12	15	15	141500	75@0	DFT_BPSK	13.890	13.710	PASS
n12	15	15	141500	75@0	DFT_QPSK	14.030	13.630	PASS
n12	15	15	141500	75@0	DFT_QAM16	13.950	13.630	PASS
n12	15	15	141500	75@0	DFT_QAM64	13.990	13.630	PASS
n12	15	15	141500	75@0	DFT_QAM256	13.950	13.630	PASS

n12 SCS=15kHz DFT_BPSK BW=10MHz Channel=141500 RB=50@0



n12 SCS=15kHz DFT_BPSK BW=15MHz Channel=141500 RB=75@0



n12 SCS=15kHz DFT_BPSK BW=5MHz Channel=141500 RB=25@0



n12 SCS=15kHz DFT_QAM16 BW=10MHz Channel=141500 RB=50@0



n12 SCS=15kHz DFT_QAM16 BW=15MHz Channel=141500 RB=75@0



n12 SCS=15kHz DFT_QAM16 BW=5MHz Channel=141500 RB=25@0



n12 SCS=15kHz DFT_QAM256 BW=10MHz Channel=141500 RB=50@0



n12 SCS=15kHz DFT_QAM256 BW=15MHz Channel=141500 RB=75@0



n12 SCS=15kHz DFT_QAM256 BW=5MHz Channel=141500 RB=25@0



n12 SCS=15kHz DFT_QAM64 BW=10MHz Channel=141500 RB=50@0



n12 SCS=15kHz DFT_QAM64 BW=15MHz Channel=141500 RB=75@0



n12 SCS=15kHz DFT_QAM64 BW=5MHz Channel=141500 RB=25@0



n12 SCS=15kHz DFT_QPSK BW=10MHz Channel=141500 RB=50@0



n12 SCS=15kHz DFT_QPSK BW=15MHz Channel=141500 RB=75@0



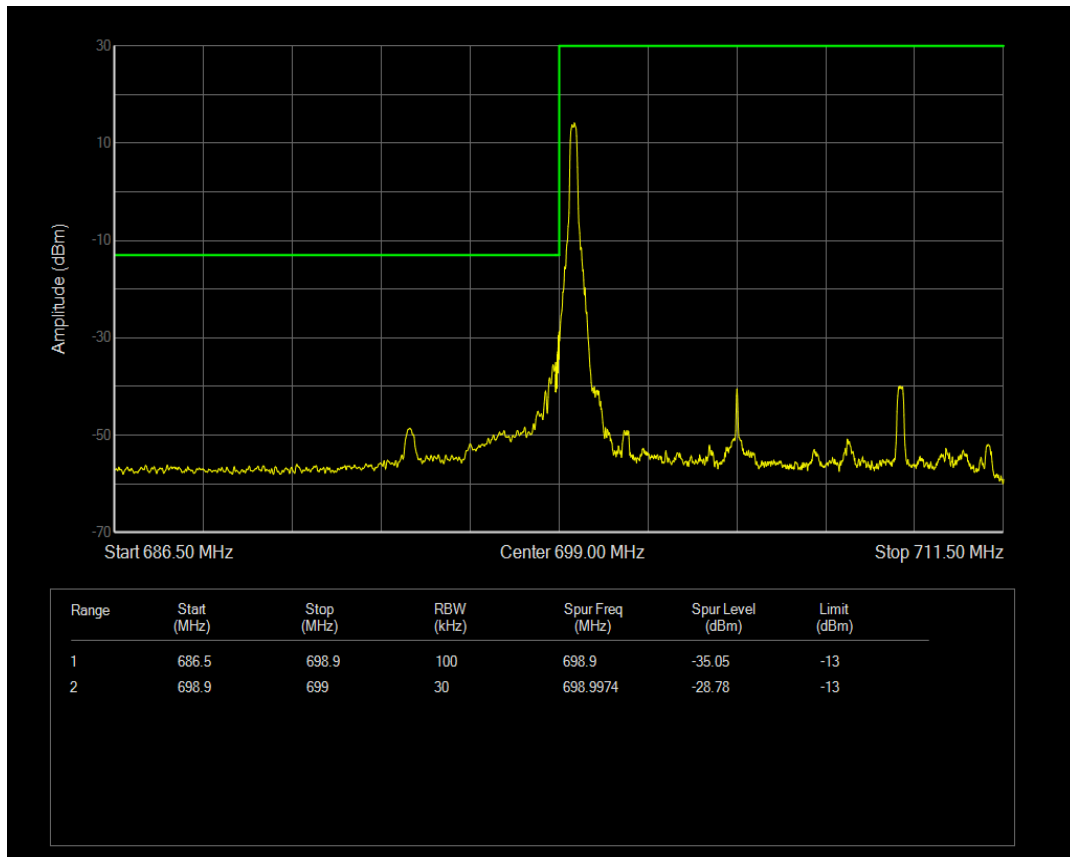
n12 SCS=15kHz DFT_QPSK BW=5MHz Channel=141500 RB=25@0



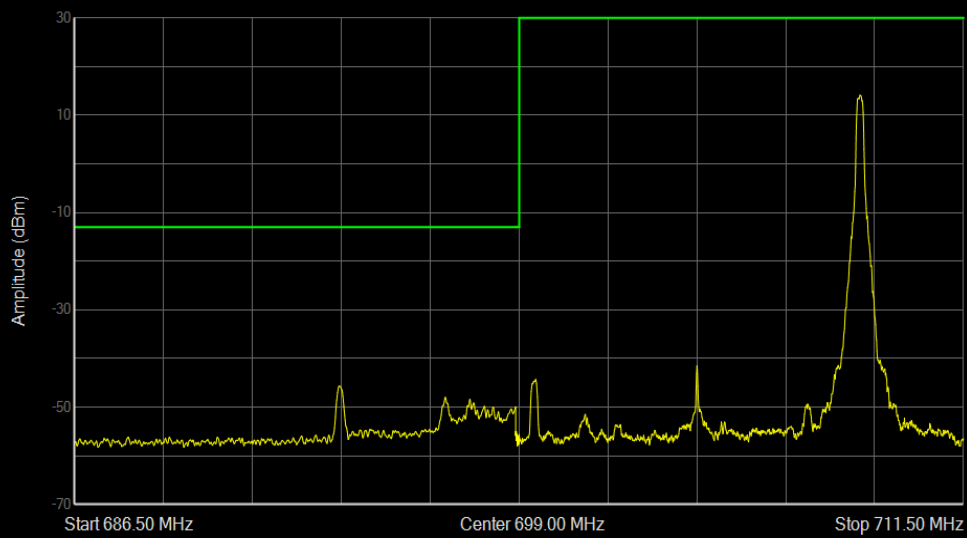
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n12	15	5	140300	25@0	CP_QPSK	698.55	-28.71	-13	PASS
n12	15	5	140300	1@0	CP_QPSK	699.00	-21.28	-13	PASS
n12	15	5	140300	1@24	CP_QPSK	703.61	13.68	30	PASS
n12	15	5	142700	25@0	CP_QPSK	716.59	-29.37	-13	PASS
n12	15	5	142700	1@0	CP_QPSK	711.29	14.18	30	PASS
n12	15	5	142700	1@24	CP_QPSK	716.00	-25.74	-13	PASS
n12	15	10	140800	52@0	CP_QPSK	698.85	-33.24	-13	PASS
n12	15	10	140800	1@0	CP_QPSK	699.00	-28.78	-13	PASS
n12	15	10	140800	1@51	CP_QPSK	708.59	14.15	30	PASS
n12	15	10	142200	52@0	CP_QPSK	716.62	-31.75	-13	PASS
n12	15	10	142200	1@0	CP_QPSK	706.38	14.87	30	PASS
n12	15	10	142200	1@51	CP_QPSK	715.59	14.23	30	PASS
n12	15	15	141300	79@0	CP_QPSK	698.79	-34.85	-13	PASS
n12	15	15	141300	1@0	CP_QPSK	699.43	14.11	30	PASS
n12	15	15	141300	1@78	CP_QPSK	713.46	13.73	30	PASS
n12	15	15	141700	79@0	CP_QPSK	716.68	-34.36	-13	PASS
n12	15	15	141700	1@0	CP_QPSK	701.43	13.99	30	PASS
n12	15	15	141700	1@78	CP_QPSK	715.51	14.55	30	PASS

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=140800 RB=1@0



n12 SCS=15kHz CP_QPSK BW=10MHz Channel=140800 RB=1@51



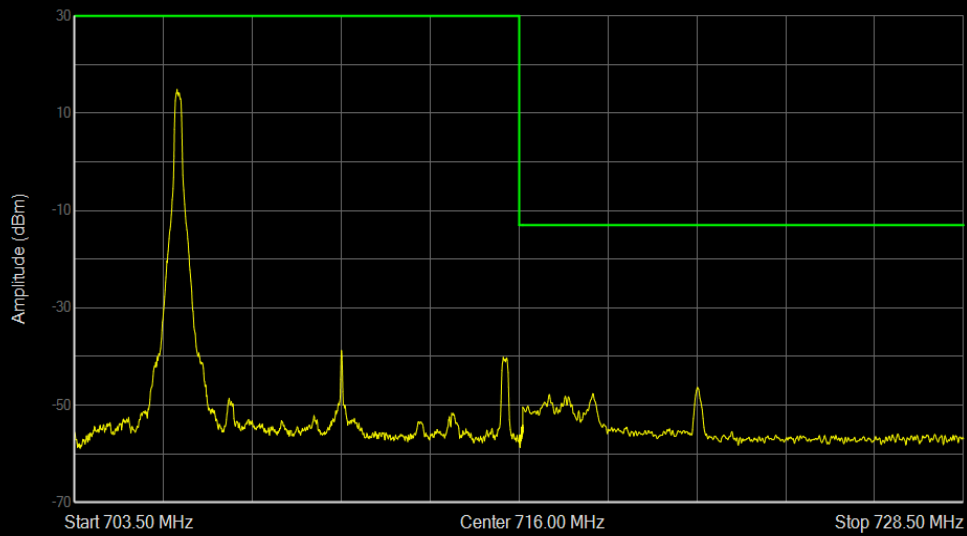
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	693.94	-45.64	-13
2	698.9	699	30	698.9045	-54.97	-13

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=140800 RB=52@0



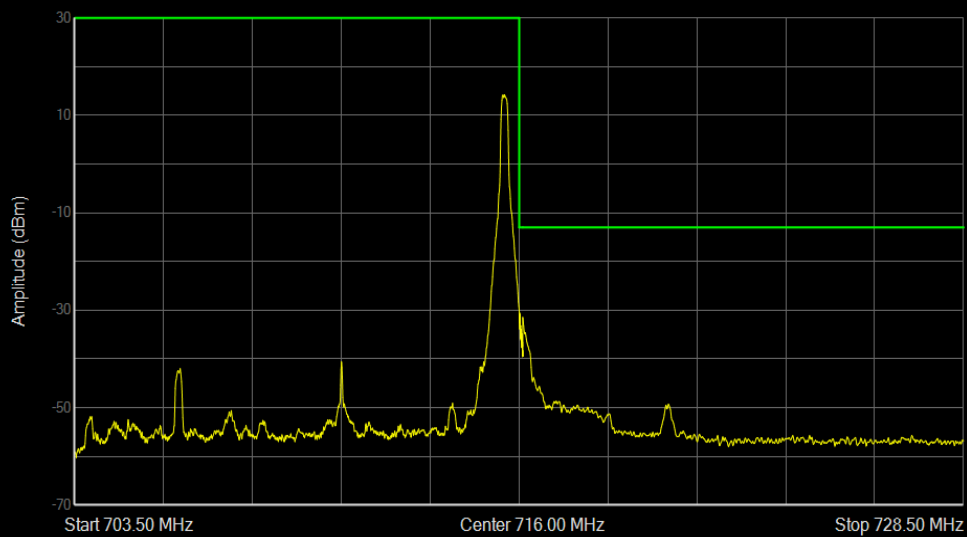
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.8504	-33.24	-13
2	698.9	699	30	698.9992	-37.4	-13

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=142200 RB=1@0



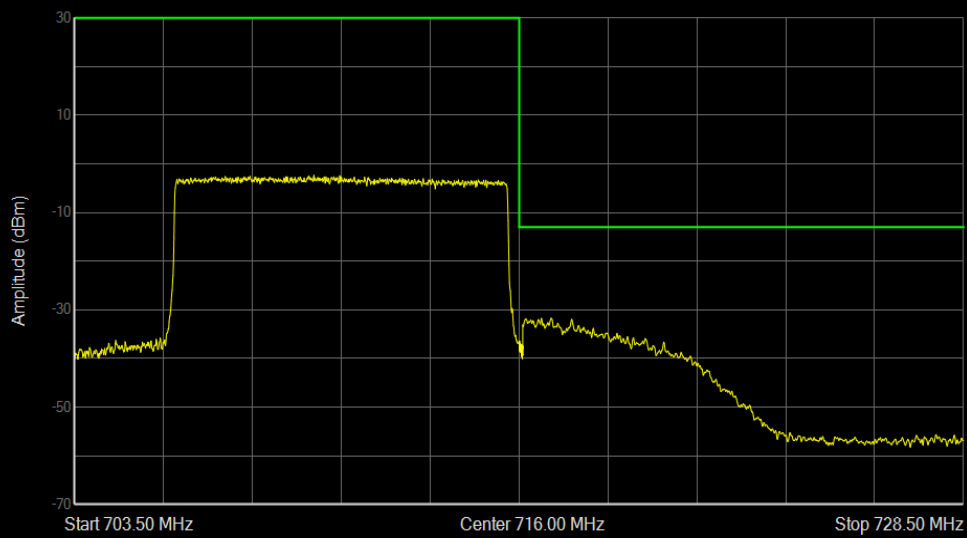
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.097	-54.11	-13
3	716.1	728.5	100	721.0228	-46.4	-13

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=142200 RB=1@51



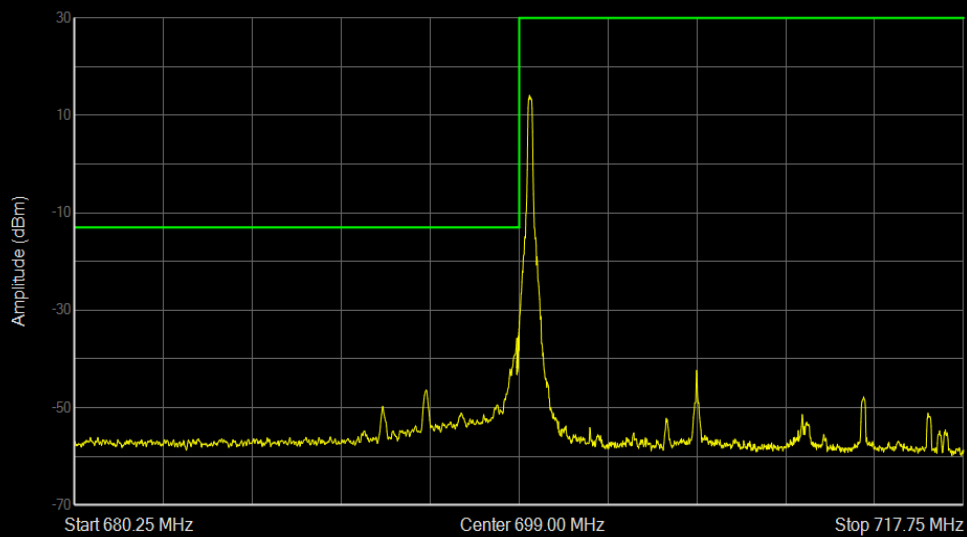
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0001	-30.16	-13
3	716.1	728.5	100	716.1124	-32.46	-13

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=142200 RB=52@0



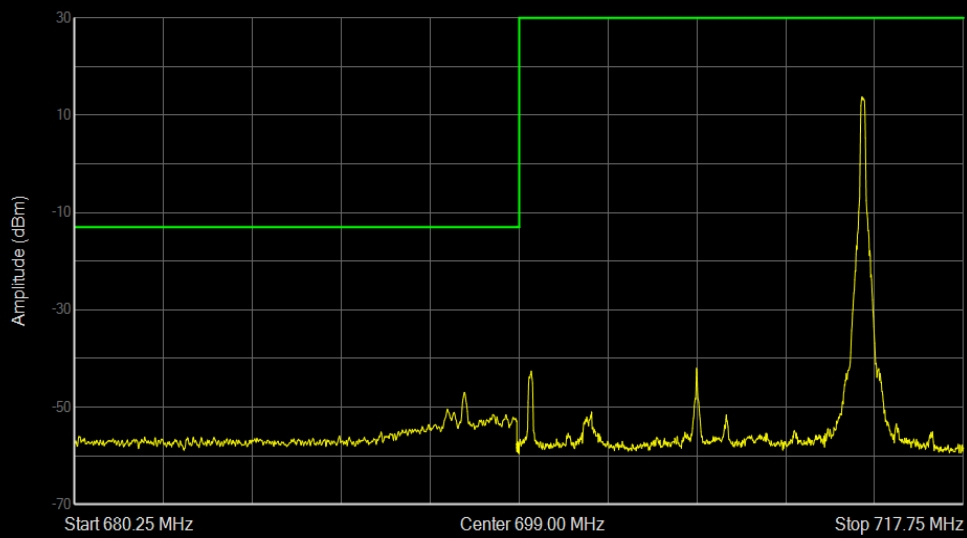
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0028	-36.39	-13
3	716.1	728.5	100	716.6208	-31.75	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141300 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	680.25	698.9	100	698.9	-35.73	-13
2	698.9	699	30	699	-32.22	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141300 RB=1@78



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	680.25	698.9	100	696.68065	-46.97	-13
2	698.9	699	30	698.9224	-57.06	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141300 RB=79@0



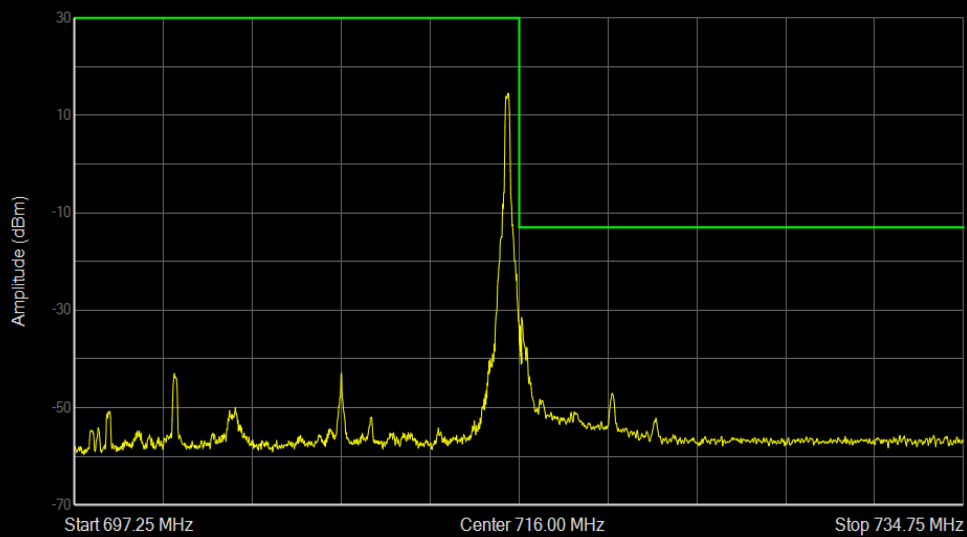
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	680.25	698.9	100	698.7881	-34.85	-13
2	698.9	699	30	698.9012	-39.28	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141700 RB=1@0



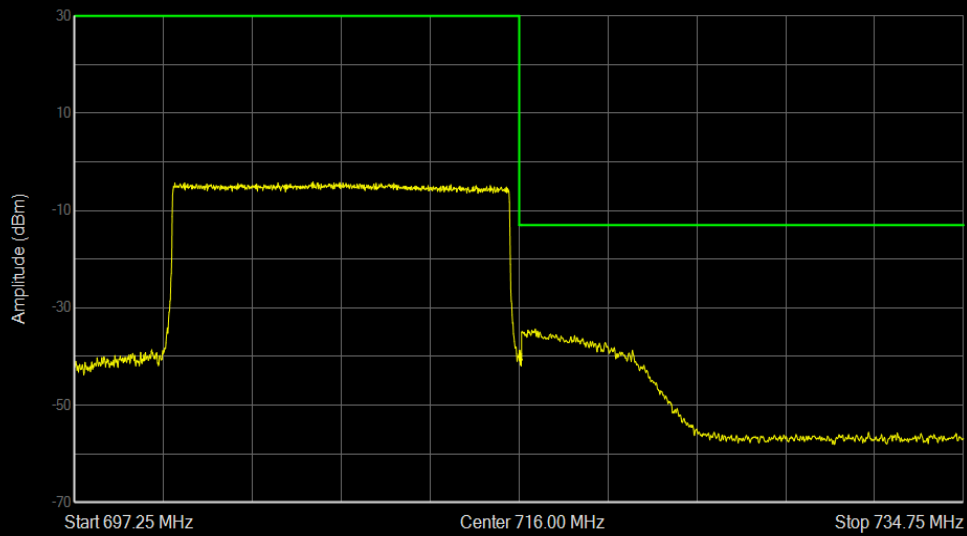
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0668	-57.11	-13
3	716.1	734.75	100	718.3007	-47.6	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141700 RB=1@78



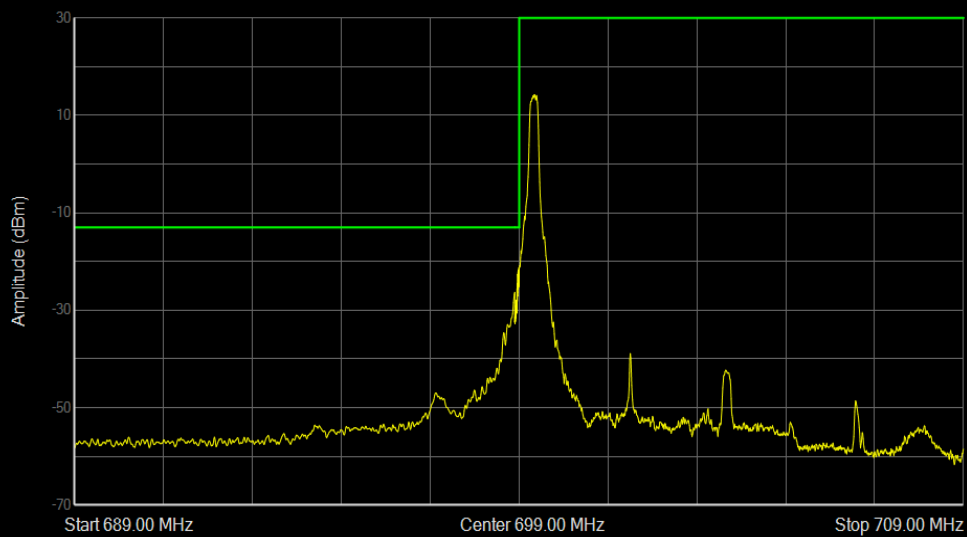
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0068	-33	-13
3	716.1	734.75	100	716.11865	-32.05	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141700 RB=79@0



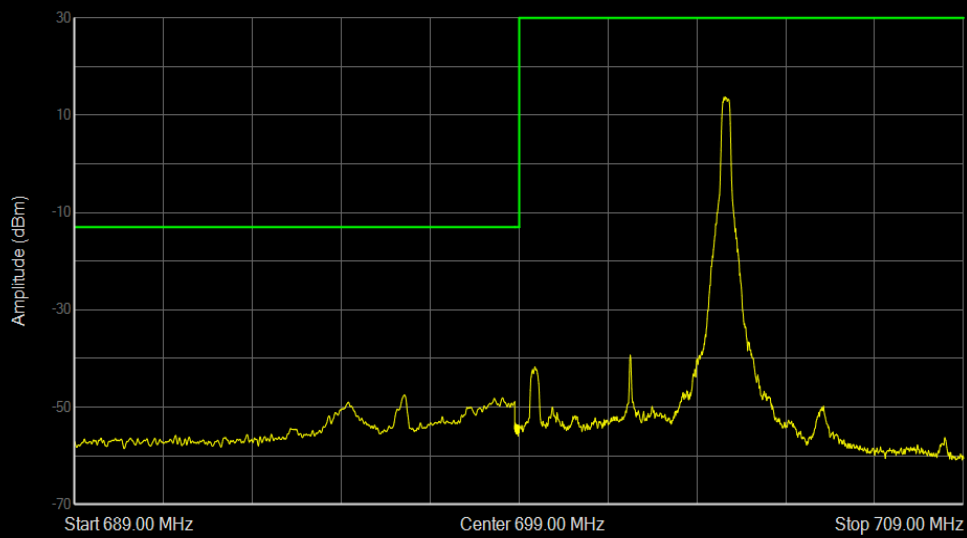
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0136	-38.75	-13
3	716.1	734.75	100	716.67815	-34.36	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=140300 RB=1@0



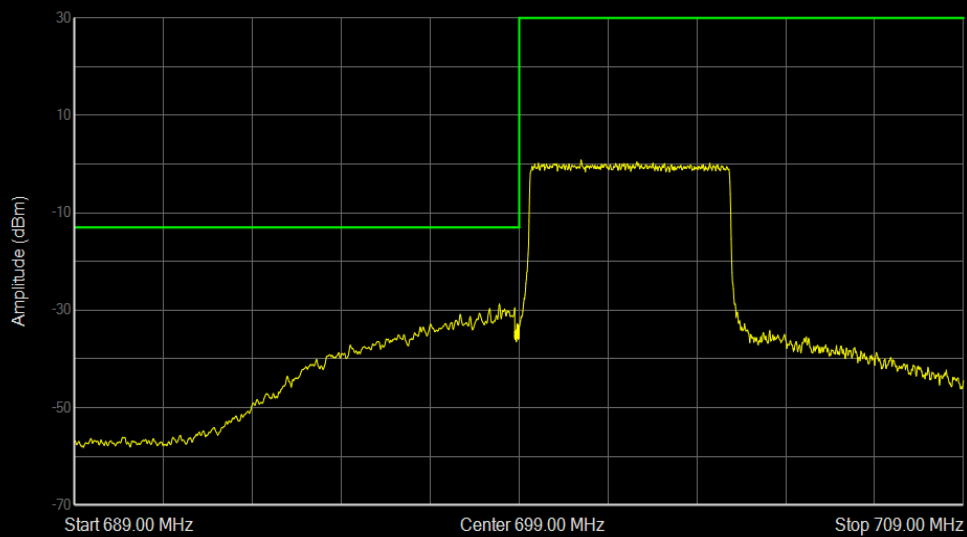
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-26.33	-13
2	698.9	699	30	698.9954	-21.28	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=140300 RB=1@24

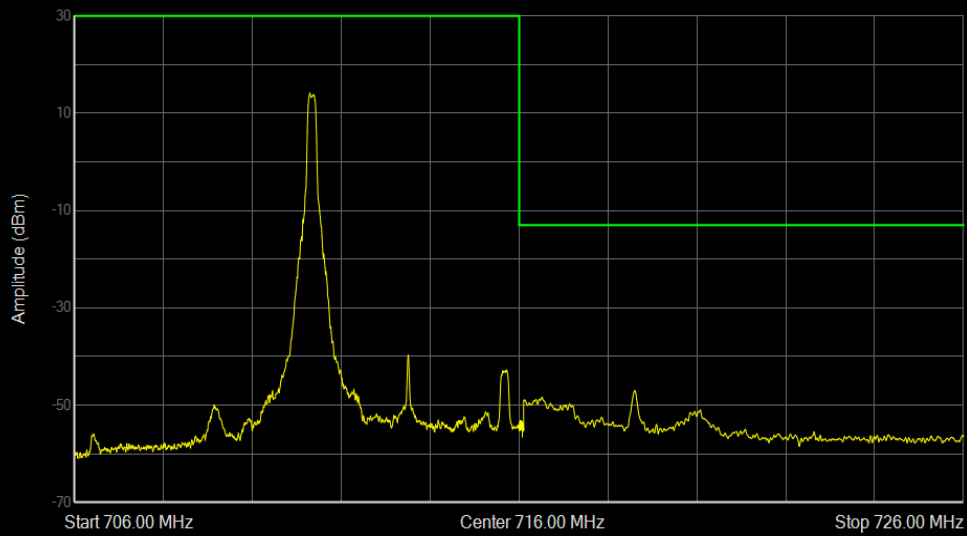


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	696.4151	-47.53	-13
2	698.9	699	30	698.9105	-53.31	-13

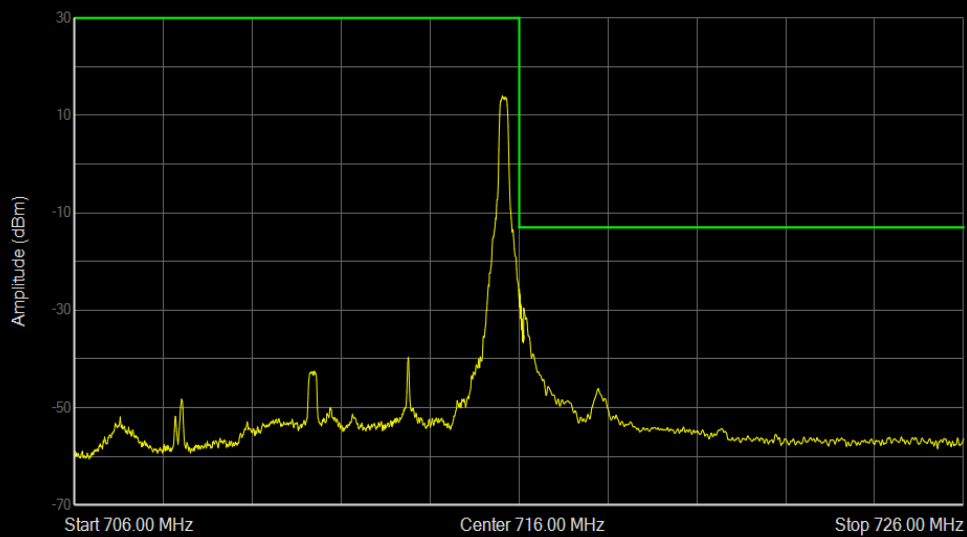
n12 SCS=15kHz CP_QPSK BW=5MHz Channel=140300 RB=25@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.5535	-28.71	-13
2	698.9	699	30	698.9548	-32.75	-13

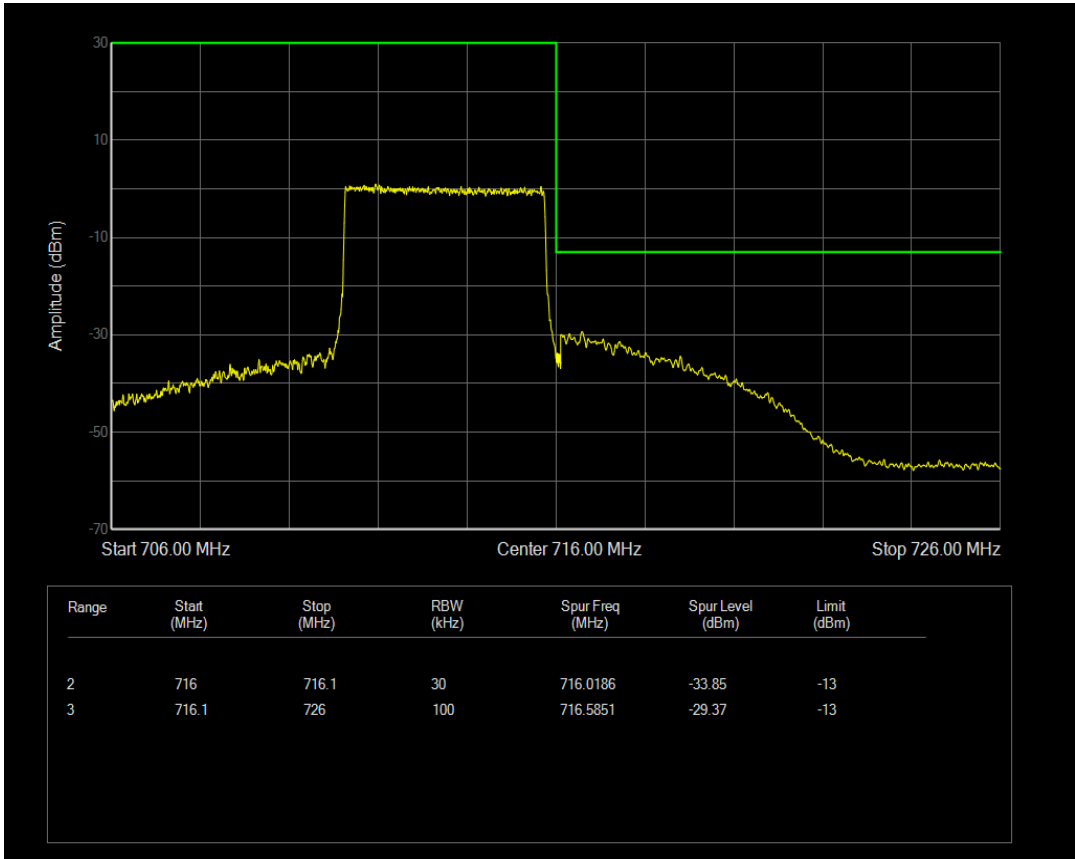
n12 SCS=15kHz CP_QPSK BW=5MHz Channel=142700 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0378	-53.15	-13
3	716.1	726	100	718.6047	-47.02	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=142700 RB=1@24

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	716	716.1	30	716.0028	-25.74	-13
3	716.1	726	100	716.1099	-29.89	-13

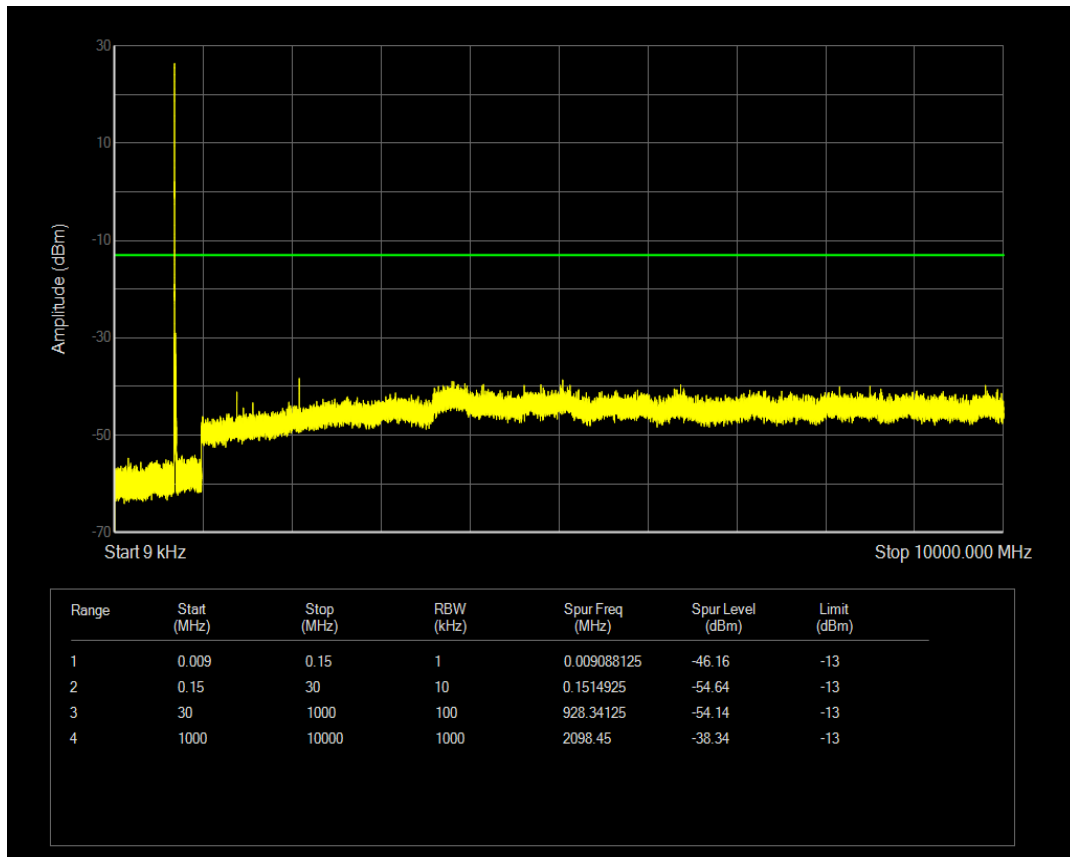
n12 SCS=15kHz CP_QPSK BW=5MHz Channel=142700 RB=25@0



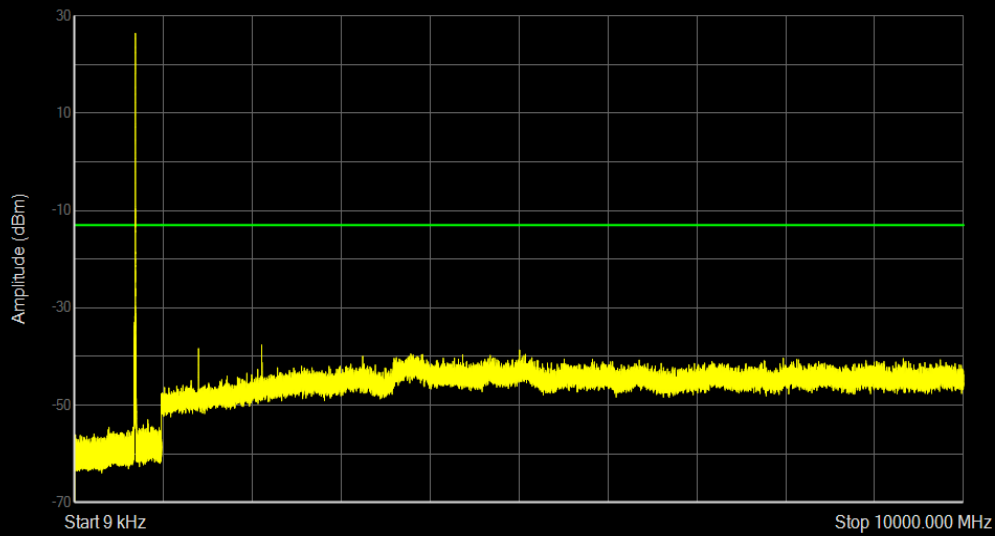
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n12	15	5	140300	25@0	CP_QPSK	3887.20	-39.11	-13	PASS
n12	15	5	140300	1@0	CP_QPSK	2098.45	-35.76	-13	PASS
n12	15	5	140300	1@24	CP_QPSK	2111.05	-36.25	-13	PASS
n12	15	5	142700	25@0	CP_QPSK	3745.23	-38.99	-13	PASS
n12	15	5	142700	1@0	CP_QPSK	2134.23	-37.67	-13	PASS
n12	15	5	142700	1@24	CP_QPSK	3790.23	-38.61	-13	PASS
n12	15	10	140800	52@0	CP_QPSK	3817.68	-38.96	-13	PASS
n12	15	10	140800	1@0	CP_QPSK	2098.45	-38.34	-13	PASS
n12	15	10	140800	1@51	CP_QPSK	2126.13	-37.64	-13	PASS
n12	15	10	142200	52@0	CP_QPSK	3733.30	-37.01	-13	PASS
n12	15	10	142200	1@0	CP_QPSK	2119.38	-36.49	-13	PASS
n12	15	10	142200	1@51	CP_QPSK	3808.90	-38.10	-13	PASS
n12	15	15	141300	79@0	CP_QPSK	3824.20	-38.53	-13	PASS
n12	15	15	141300	1@0	CP_QPSK	2098.45	-37.49	-13	PASS
n12	15	15	141300	1@78	CP_QPSK	1427.05	-38.06	-13	PASS
n12	15	15	141700	79@0	CP_QPSK	3789.33	-38.77	-13	PASS
n12	15	15	141700	1@0	CP_QPSK	1403.20	-38.78	-13	PASS
n12	15	15	141700	1@78	CP_QPSK	2146.60	-35.52	-13	PASS

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=140800 RB=1@0

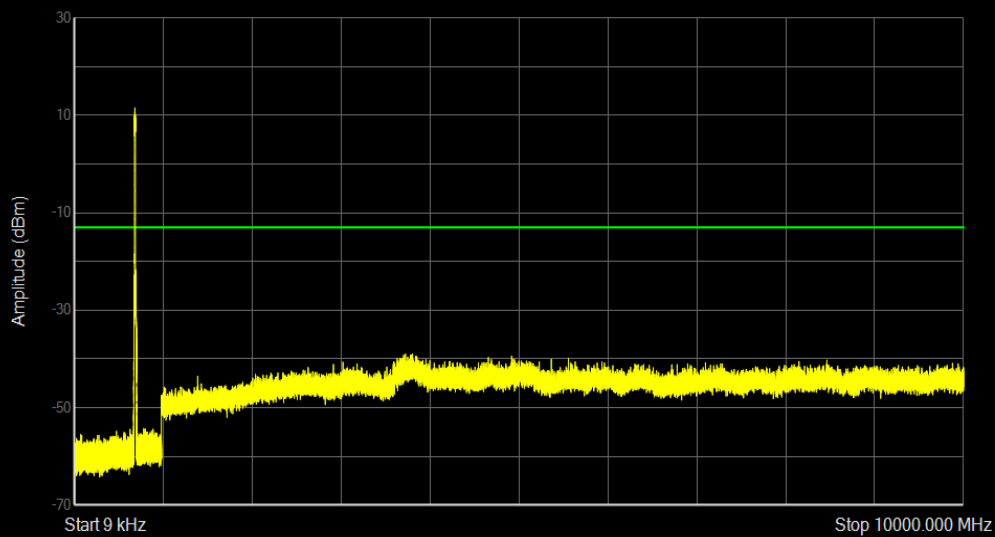


n12 SCS=15kHz CP_QPSK BW=10MHz Channel=140800 RB=1@51

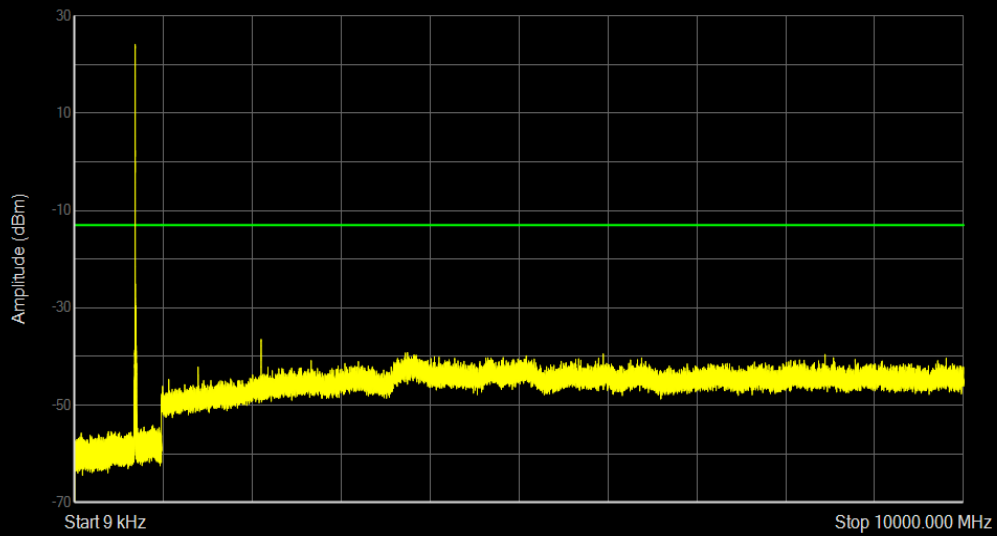


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010061025	-45.72	-13
2	0.15	30	10	0.16791	-56.35	-13
3	30	1000	100	848.02525	-53.02	-13
4	1000	10000	1000	2126.125	-37.64	-13

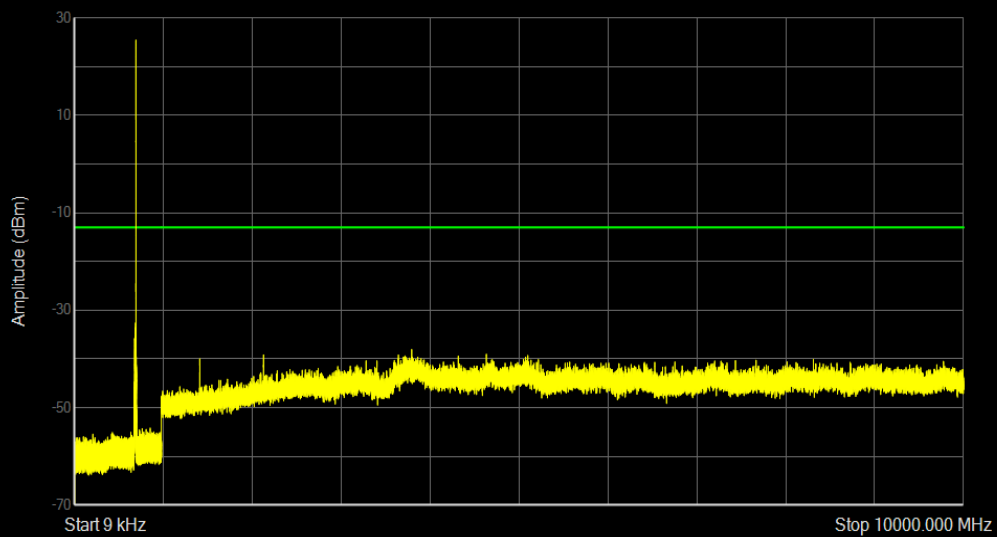
n12 SCS=15kHz CP_QPSK BW=10MHz Channel=140800 RB=52@0



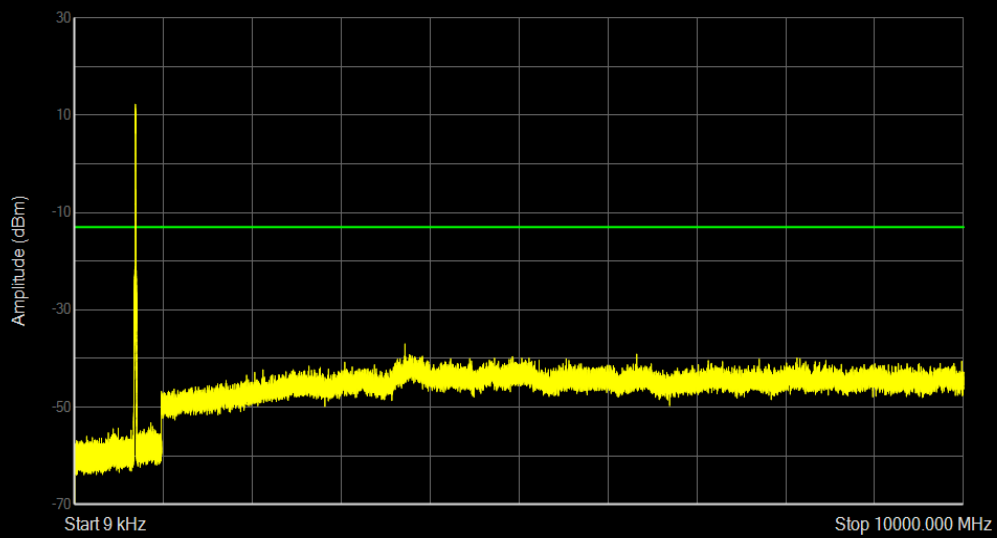
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01202445	-45.77	-13
2	0.15	30	10	0.15223875	-57.17	-13
3	30	1000	100	803.59925	-54.28	-13
4	1000	10000	1000	3817.675	-38.96	-13

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=142200 RB=1@0

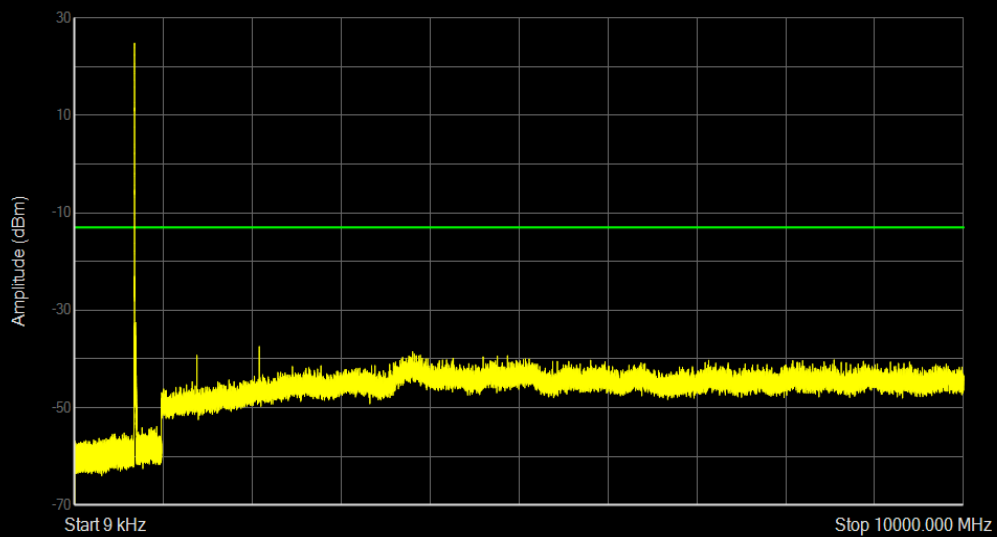
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012902175	-44.53	-13
2	0.15	30	10	0.15522375	-55.2	-13
3	30	1000	100	905.74025	-54.17	-13
4	1000	10000	1000	2119.375	-36.49	-13

n12 SCS=15kHz CP_QPSK BW=10MHz Channel=142200 RB=1@51

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010039875	-46.31	-13
2	0.15	30	10	0.1694025	-55.01	-13
3	30	1000	100	874.385	-54.19	-13
4	1000	10000	1000	3808.9	-38.1	-13

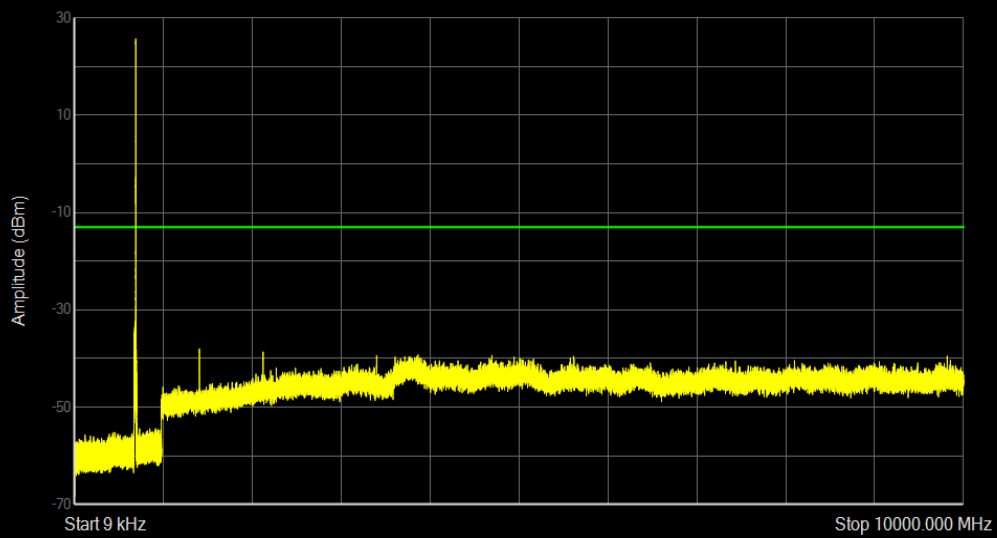
n12 SCS=15kHz CP_QPSK BW=10MHz Channel=142200 RB=52@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0096486	-45.96	-13
2	0.15	30	10	0.15	-56.61	-13
3	30	1000	100	882.16925	-53.22	-13
4	1000	10000	1000	3733.3	-37.01	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141300 RB=1@0

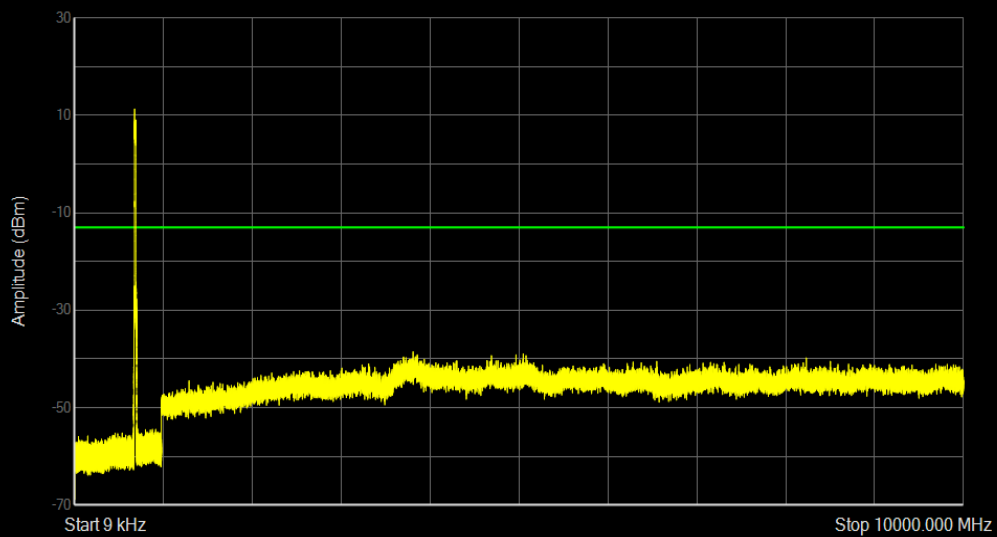
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013311075	-46.51	-13
2	0.15	30	10	0.1574625	-57.24	-13
3	30	1000	100	947.911	-53.87	-13
4	1000	10000	1000	2098.45	-37.49	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141300 RB=1@78

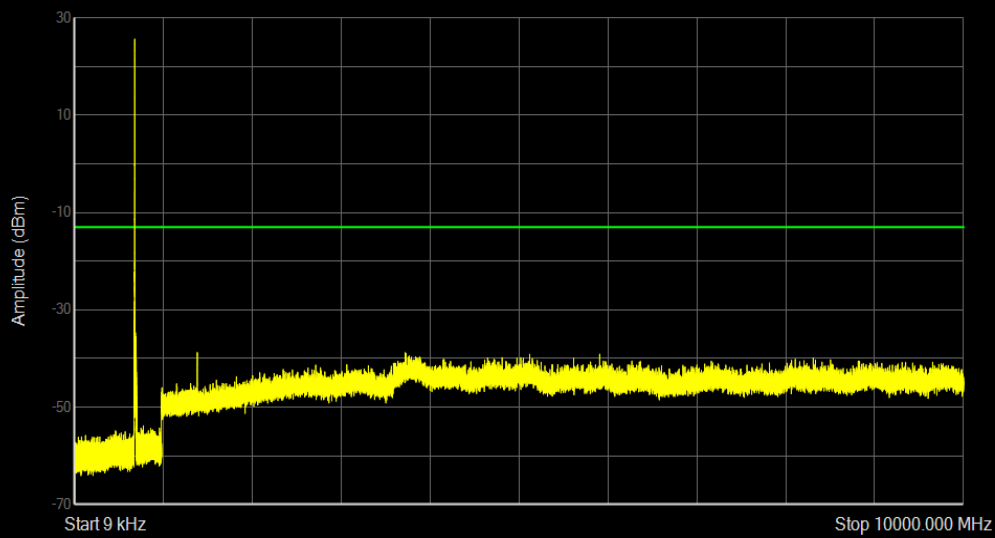


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0162051	-45.31	-13
2	0.15	30	10	0.164925	-55.04	-13
3	30	1000	100	936.2225	-54.41	-13
4	1000	10000	1000	1427.05	-38.06	-13

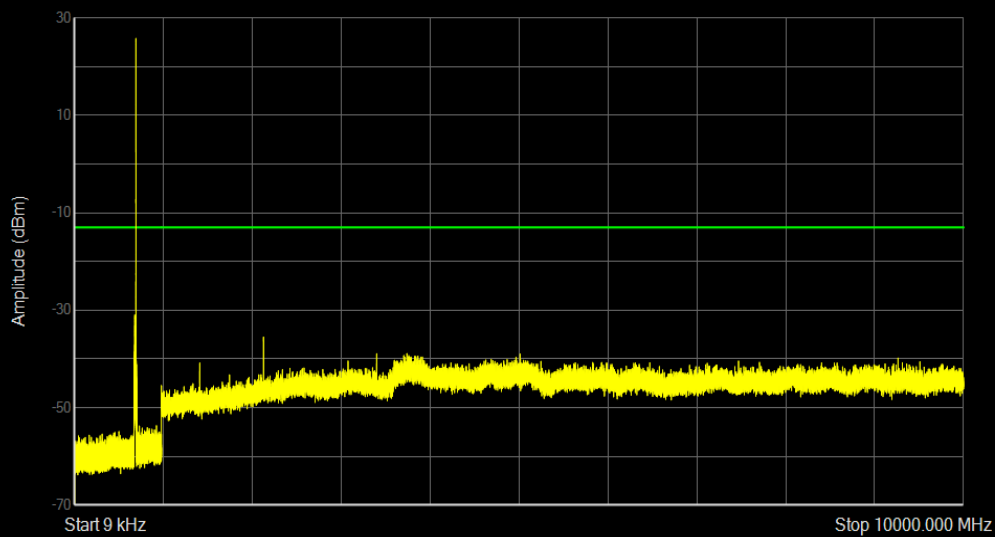
n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141300 RB=79@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00928905	-45.85	-13
2	0.15	30	10	0.15671625	-57.59	-13
3	30	1000	100	900.01725	-54.45	-13
4	1000	10000	1000	3824.2	-38.53	-13

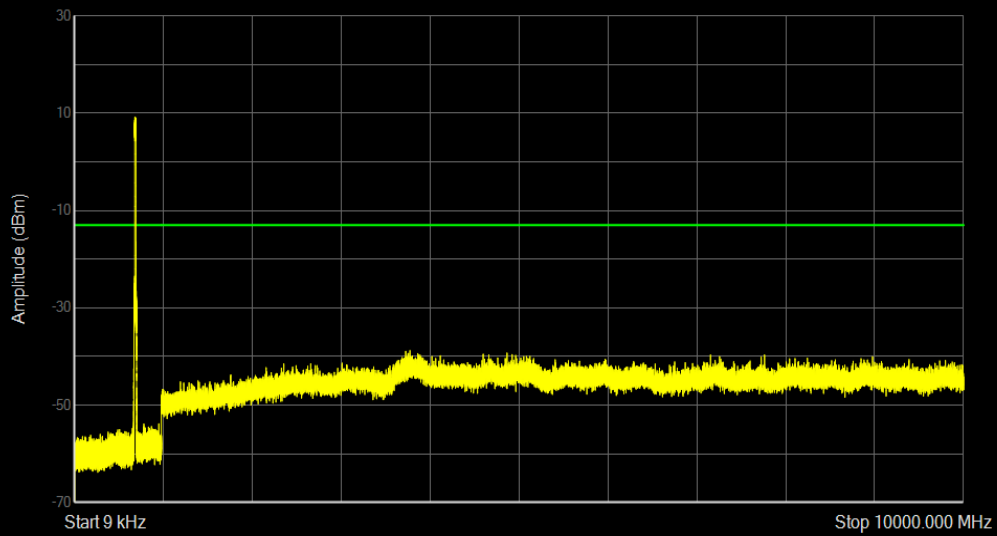
n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141700 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.017364825	-46.23	-13
2	0.15	30	10	0.1544775	-54.03	-13
3	30	1000	100	798.046	-53.82	-13
4	1000	10000	1000	1403.2	-38.78	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141700 RB=1@78

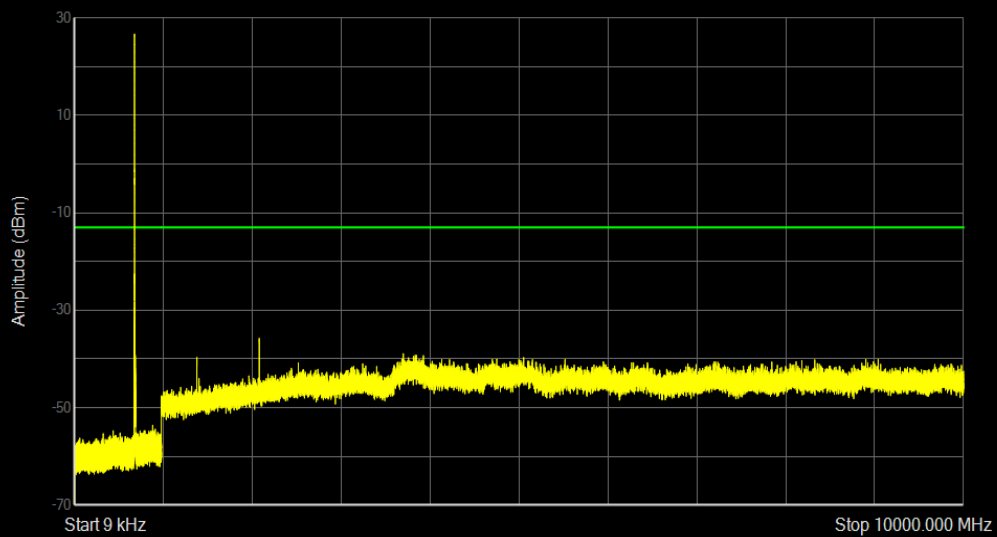
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01061445	-46.09	-13
2	0.15	30	10	0.15	-55.16	-13
3	30	1000	100	945.07375	-53.73	-13
4	1000	10000	1000	2146.6	-35.52	-13

n12 SCS=15kHz CP_QPSK BW=15MHz Channel=141700 RB=79@0

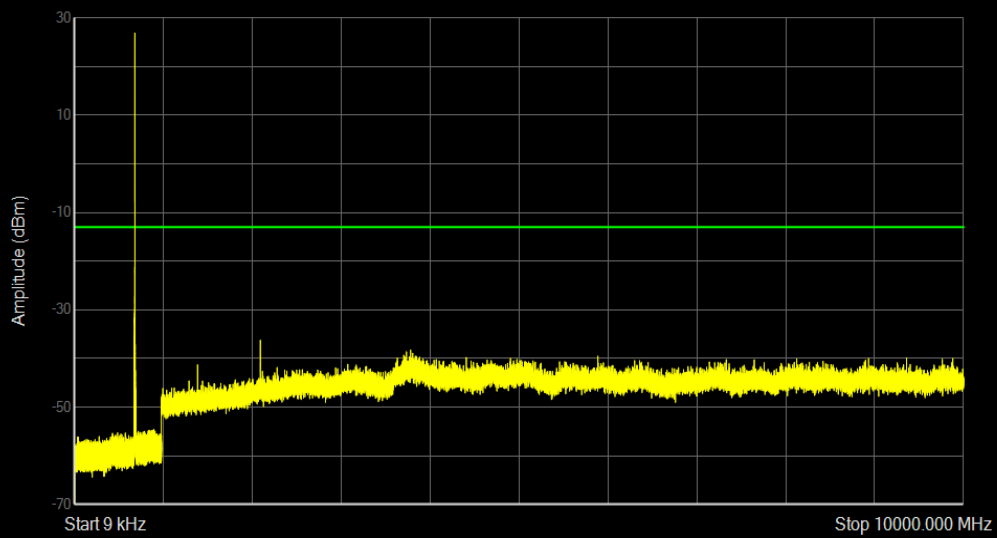


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.014298075	-44.74	-13
2	0.15	30	10	0.15	-55.85	-13
3	30	1000	100	972.1125	-53.83	-13
4	1000	10000	1000	3789.325	-38.77	-13

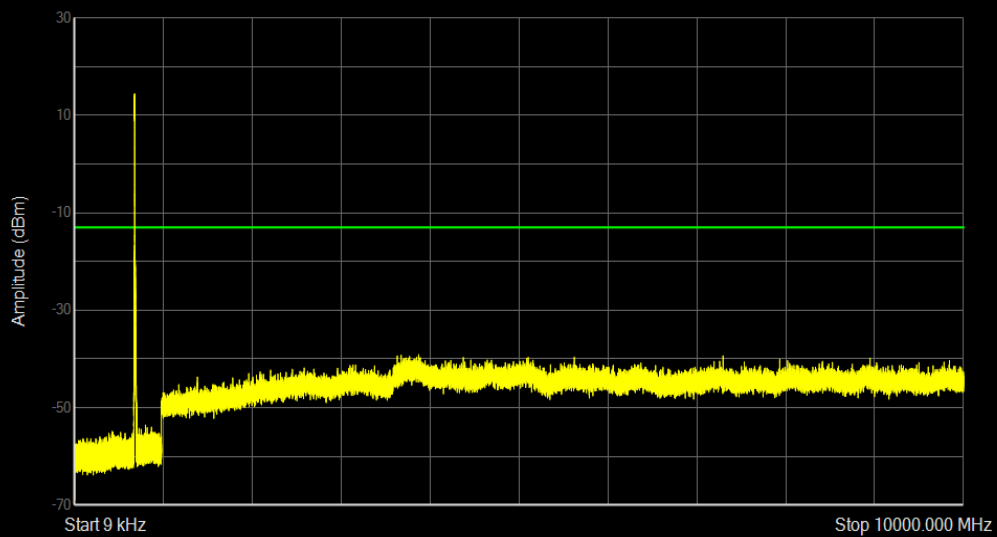
n12 SCS=15kHz CP_QPSK BW=5MHz Channel=140300 RB=1@0



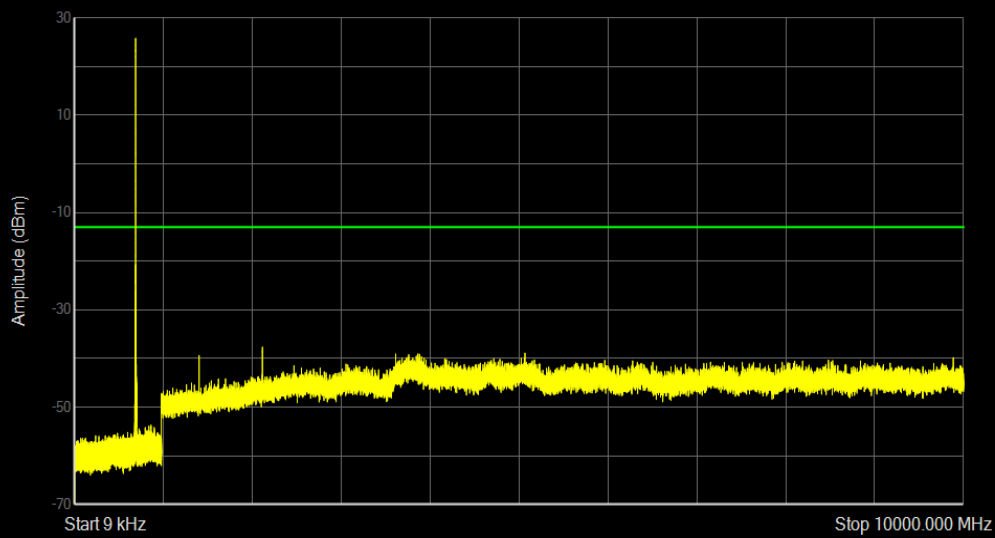
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0122148	-46.49	-13
2	0.15	30	10	0.1932825	-57.28	-13
3	30	1000	100	903.291	-53.61	-13
4	1000	10000	1000	2098.45	-35.76	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=140300 RB=1@24

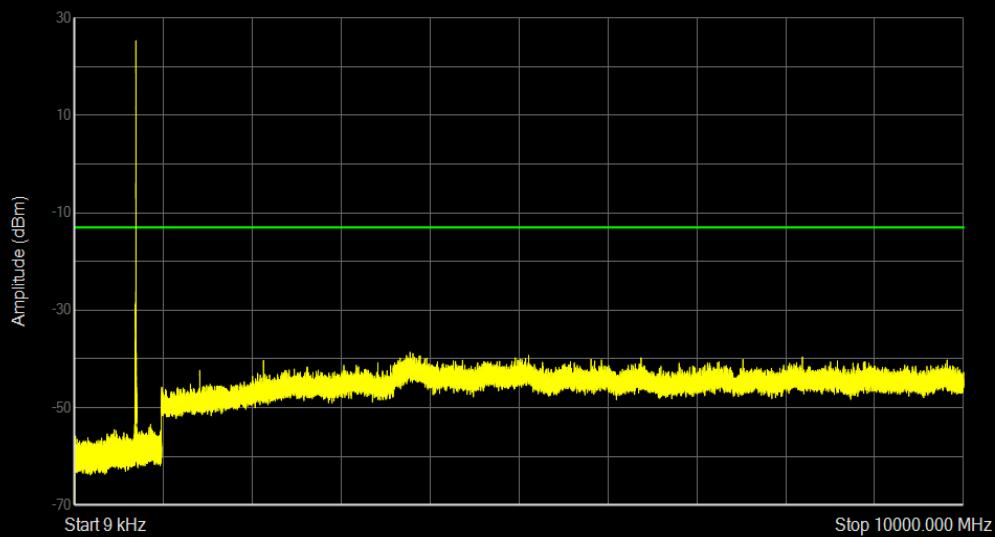
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013910325	-45.85	-13
2	0.15	30	10	0.15597	-56.58	-13
3	30	1000	100	914.5915	-54.6	-13
4	1000	10000	1000	2111.05	-36.25	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=140300 RB=25@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01123485	-44.85	-13
2	0.15	30	10	0.152985	-57.21	-13
3	30	1000	100	822.393	-53.57	-13
4	1000	10000	1000	3887.2	-39.11	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=142700 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01023375	-46.04	-13
2	0.15	30	10	0.18059625	-56.33	-13
3	30	1000	100	884.3275	-53.7	-13
4	1000	10000	1000	2134.225	-37.67	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=142700 RB=1@24

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012006825	-44.69	-13
2	0.15	30	10	0.15671625	-57.26	-13
3	30	1000	100	879.7685	-53.46	-13
4	1000	10000	1000	3790.225	-38.61	-13

n12 SCS=15kHz CP_QPSK BW=5MHz Channel=142700 RB=25@0

