



n7 SCS=30kHz DFT_BPSK BW=20MHz Channel=507000 RB=50@0



n7 SCS=30kHz DFT_QAM16 BW=10MHz Channel=507000 RB=24@0



n7 SCS=30kHz DFT_QAM16 BW=15MHz Channel=507000 RB=36@0



n7 SCS=30kHz DFT_QAM16 BW=20MHz Channel=507000 RB=50@0



n7 SCS=30kHz DFT_QAM256 BW=10MHz Channel=507000 RB=24@0



n7 SCS=30kHz DFT_QAM256 BW=15MHz Channel=507000 RB=36@0



n7 SCS=30kHz DFT_QAM256 BW=20MHz Channel=507000 RB=50@0



n7 SCS=30kHz DFT_QAM64 BW=10MHz Channel=507000 RB=24@0



n7 SCS=30kHz DFT_QAM64 BW=15MHz Channel=507000 RB=36@0



n7 SCS=30kHz DFT_QAM64 BW=20MHz Channel=507000 RB=50@0



n7 SCS=30kHz DFT_QPSK BW=10MHz Channel=507000 RB=24@0



n7 SCS=30kHz DFT_QPSK BW=15MHz Channel=507000 RB=36@0



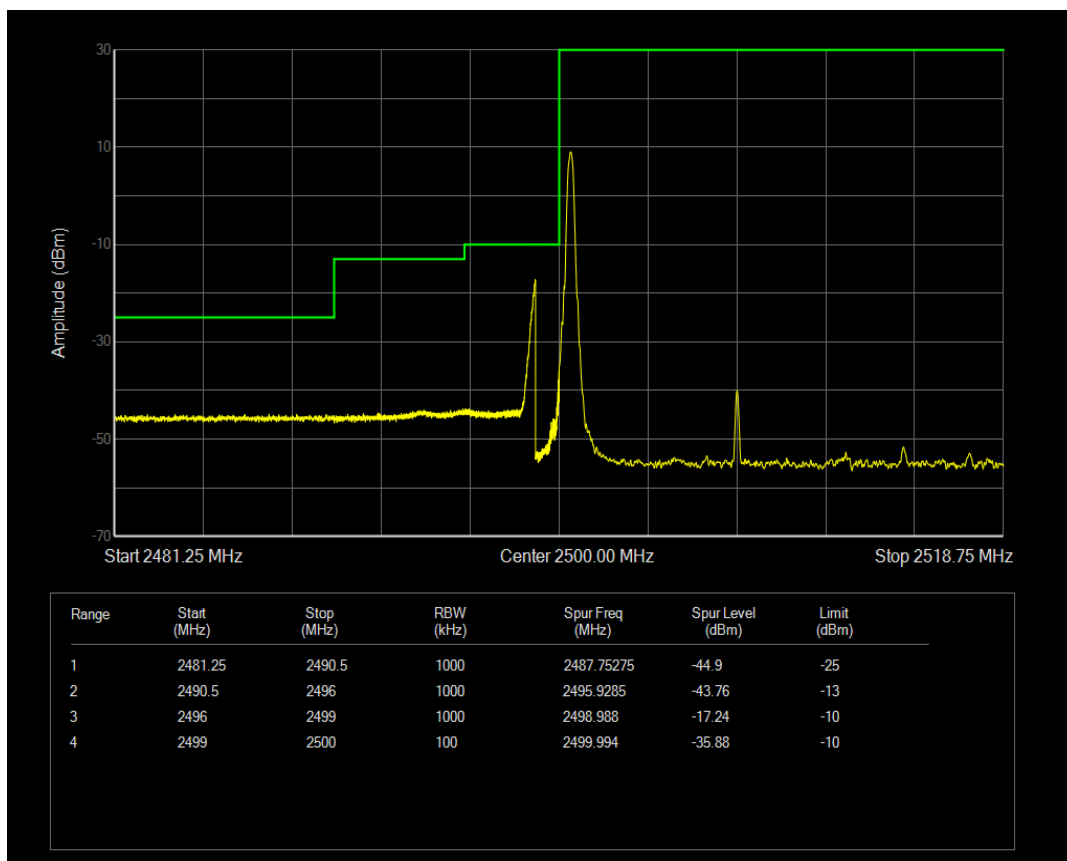
n7 SCS=30kHz DFT_QPSK BW=20MHz Channel=507000 RB=50@0



5 Band edge for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	2499.00	-21.85	-10	PASS
n7	15	5	500500	1@0	CP_QPSK	2499.00	-10.89	-10	PASS
n7	15	5	500500	1@24	CP_QPSK	2493.59	-44.56	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	2571.02	-22.20	-10	PASS
n7	15	5	513500	1@0	CP_QPSK	2578.43	-44.88	-25	PASS
n7	15	5	513500	1@24	CP_QPSK	2571.00	-12.03	-10	PASS
n7	15	15	501500	79@0	CP_QPSK	2490.34	-37.35	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	2498.99	-17.24	-10	PASS
n7	15	15	501500	1@78	CP_QPSK	2483.55	-44.66	-25	PASS
n7	15	15	512500	79@0	CP_QPSK	2571.04	-28.06	-10	PASS
n7	15	15	512500	1@0	CP_QPSK	2587.36	-44.81	-25	PASS
n7	15	15	512500	1@78	CP_QPSK	2571.00	-18.79	-10	PASS
n7	15	20	502000	106@0	CP_QPSK	2490.41	-36.26	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	2499.00	-19.19	-10	PASS
n7	15	20	502000	1@105	CP_QPSK	2489.90	-44.35	-25	PASS
n7	15	20	512000	106@0	CP_QPSK	2570.00	-28.25	-10	PASS
n7	15	20	512000	1@0	CP_QPSK	2593.92	-44.67	-25	PASS
n7	15	20	512000	1@105	CP_QPSK	2571.00	-21.08	-10	PASS

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@0



n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@78



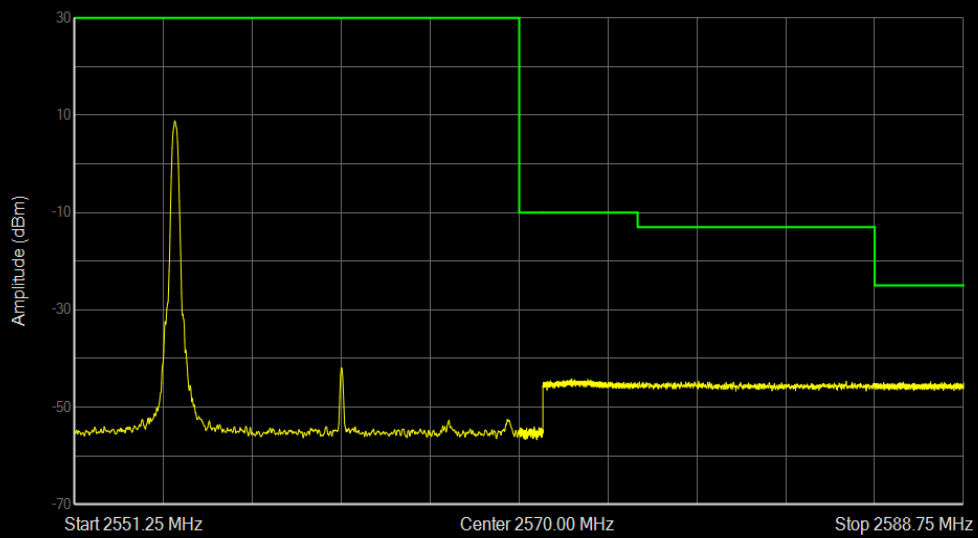
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2483.55325	-44.66	-25
2	2490.5	2496	1000	2495.571	-44.7	-13
3	2496	2499	1000	2497.56	-43.96	-10
4	2499	2500	100	2499.09	-53.68	-10

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=79@0



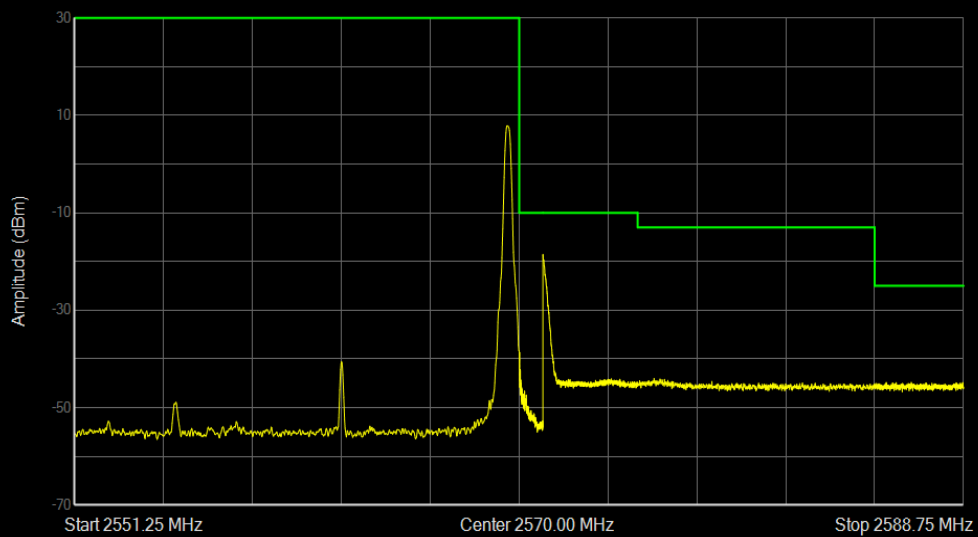
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2490.34275	-37.35	-25
2	2490.5	2496	1000	2495.9835	-30.99	-13
3	2496	2499	1000	2498.934	-27.68	-10
4	2499	2500	300	2499.994	-31.61	-10

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0



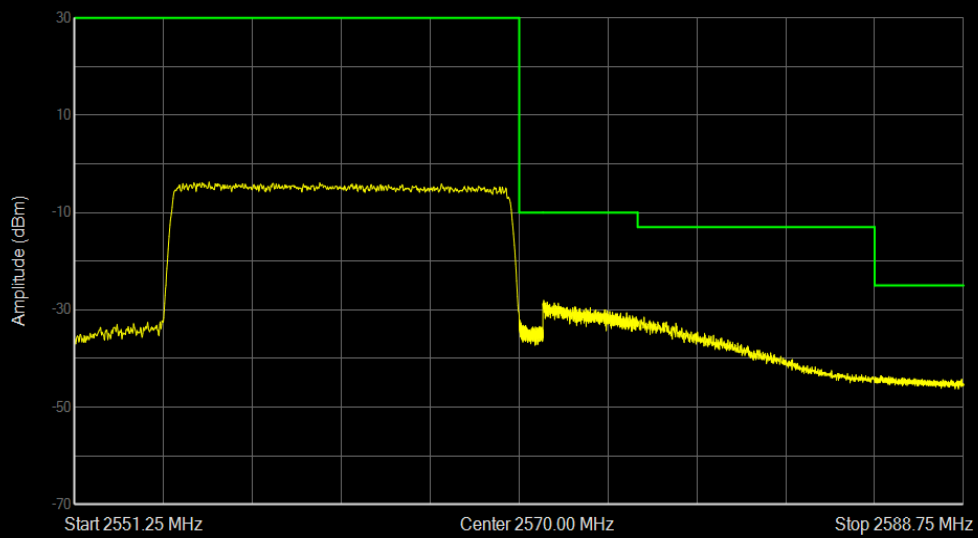
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.633	-54.1	-10
3	2571	2575	1000	2572.212	-44.2	-10
4	2575	2585	1000	2583.8	-44.7	-13
5	2585	2588.75	1000	2587.3625	-44.81	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@78



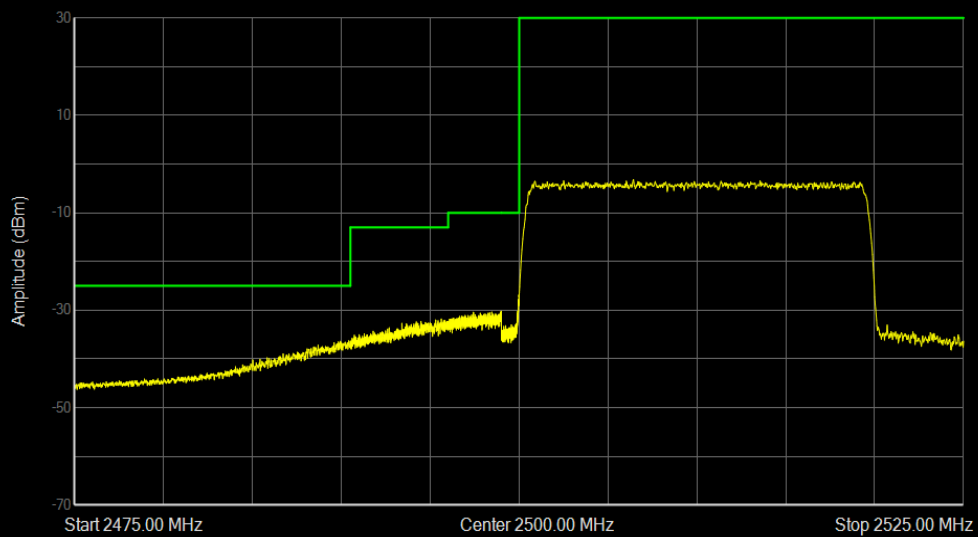
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.013	-38.64	-10
3	2571	2575	1000	2571.004	-18.79	-10
4	2575	2585	1000	2575.69	-44.02	-13
5	2585	2588.75	1000	2586.545	-44.82	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=79@0



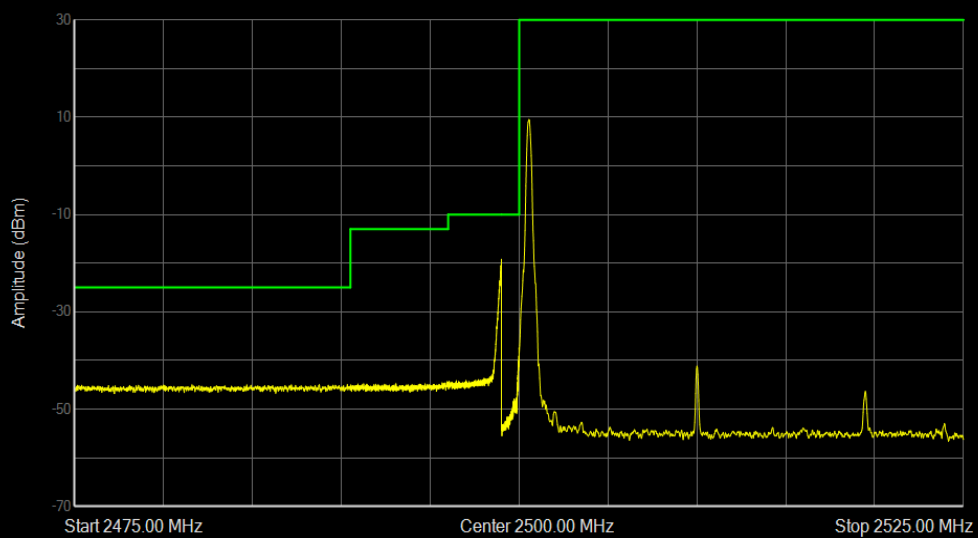
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.024	-32.13	-10
3	2571	2575	1000	2571.036	-28.06	-10
4	2575	2585	1000	2575.27	-31.51	-13
5	2585	2588.75	1000	2585.27375	-43.54	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=106@0



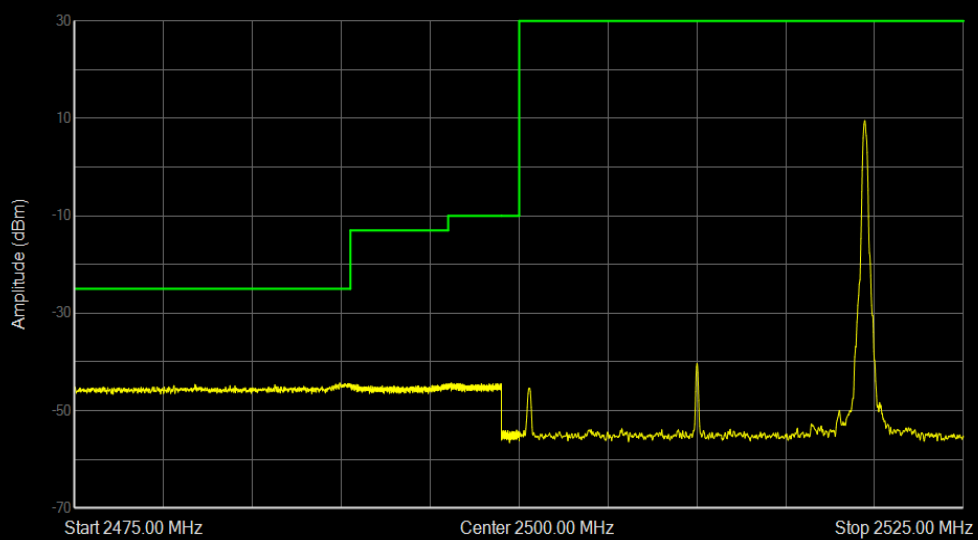
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.407	-36.26	-25
2	2490.5	2496	1000	2495.615	-31.79	-13
3	2496	2499	1000	2498.997	-30.21	-10
4	2499	2500	430	2499.998	-26.61	-10

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0



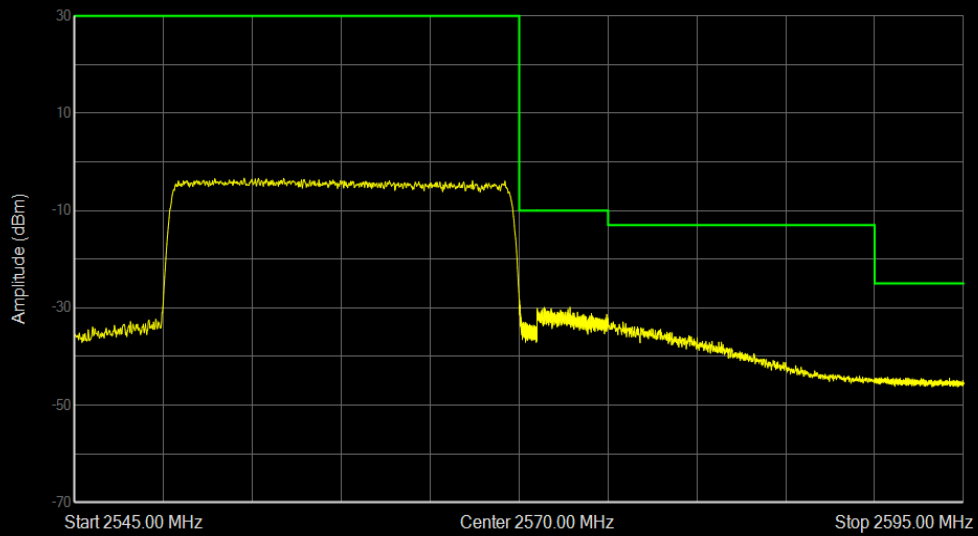
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.3295	-44.95	-25
2	2490.5	2496	1000	2495.934	-44.35	-13
3	2496	2499	1000	2499	-19.19	-10
4	2499	2500	100	2499.992	-37.41	-10

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@105



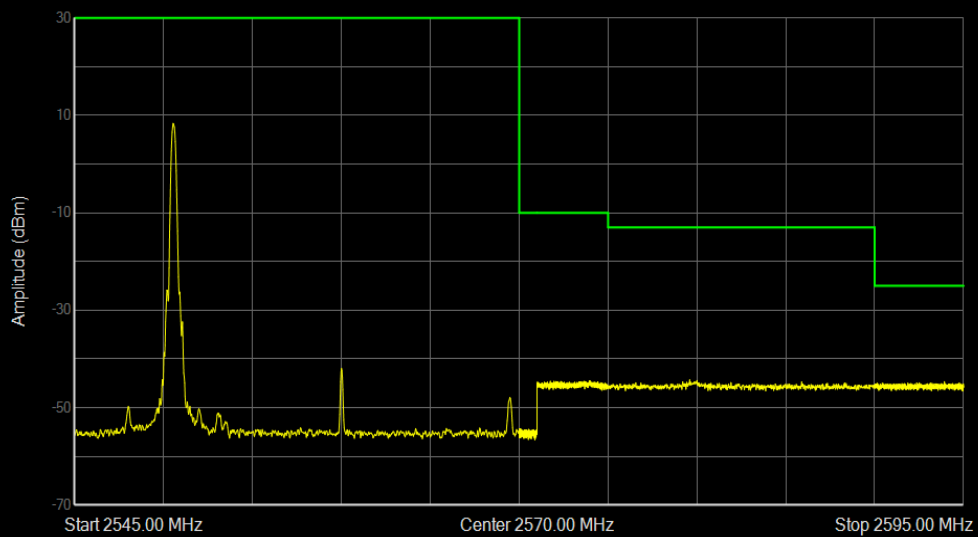
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2489.8955	-44.35	-25
2	2490.5	2496	1000	2495.912	-44.53	-13
3	2496	2499	1000	2496.183	-44.31	-10
4	2499	2500	100	2499.851	-53.99	-10

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=106@0



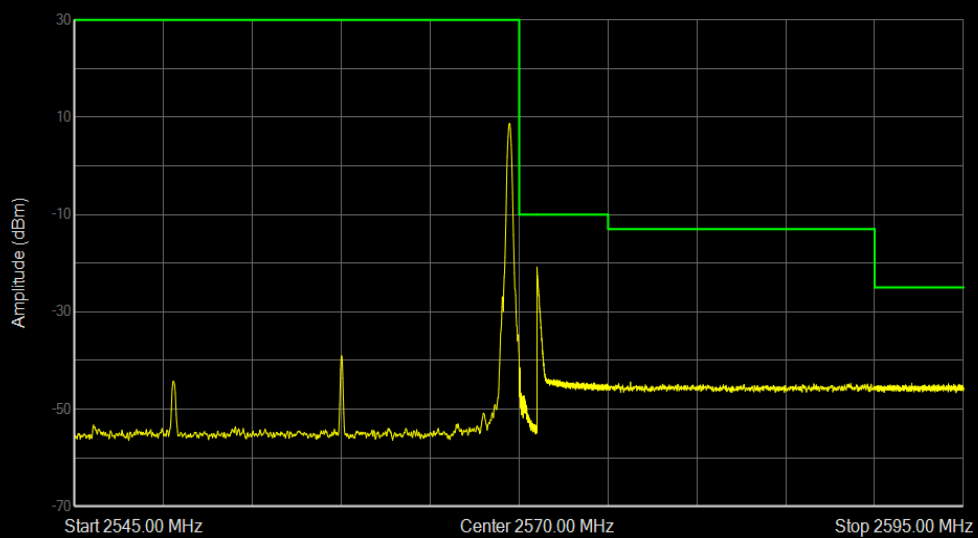
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.003	-28.25	-10
3	2571	2575	1000	2572.86	-29.88	-10
4	2575	2590	1000	2575.3	-32.91	-13
5	2590	2595	1000	2590.72	-44.26	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@0



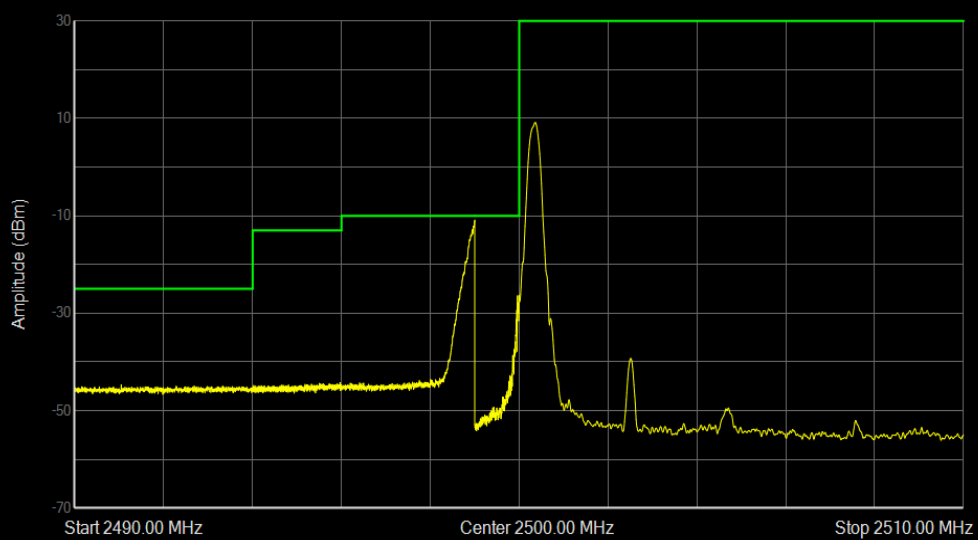
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.017	-54.33	-10
3	2571	2575	1000	2573.94	-44.48	-10
4	2575	2590	1000	2579.59	-44.28	-13
5	2590	2595	1000	2593.92	-44.67	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@105



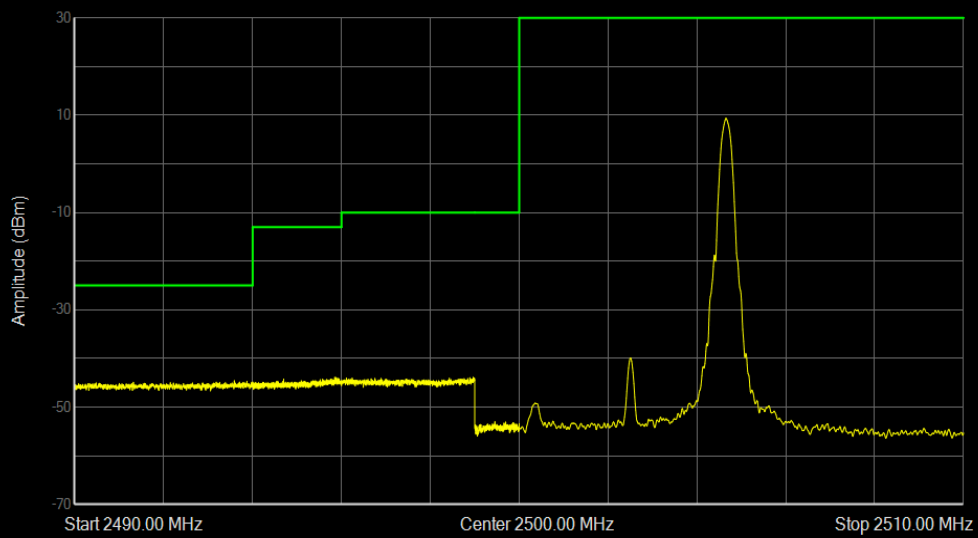
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.022	-41.4	-10
3	2571	2575	1000	2571.004	-21.08	-10
4	2575	2590	1000	2576.26	-44.44	-13
5	2590	2595	1000	2592.085	-44.69	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@0



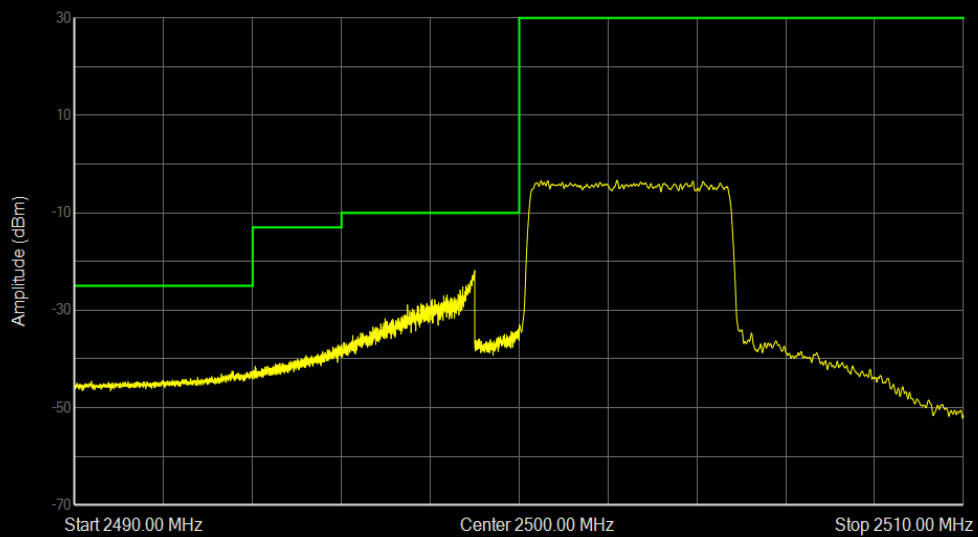
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2491.044	-44.69	-25
2	2494	2496	1000	2495.966	-44.22	-13
3	2496	2499	1000	2499	-10.89	-10
4	2499	2500	100	2499.995	-26.33	-10

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@24



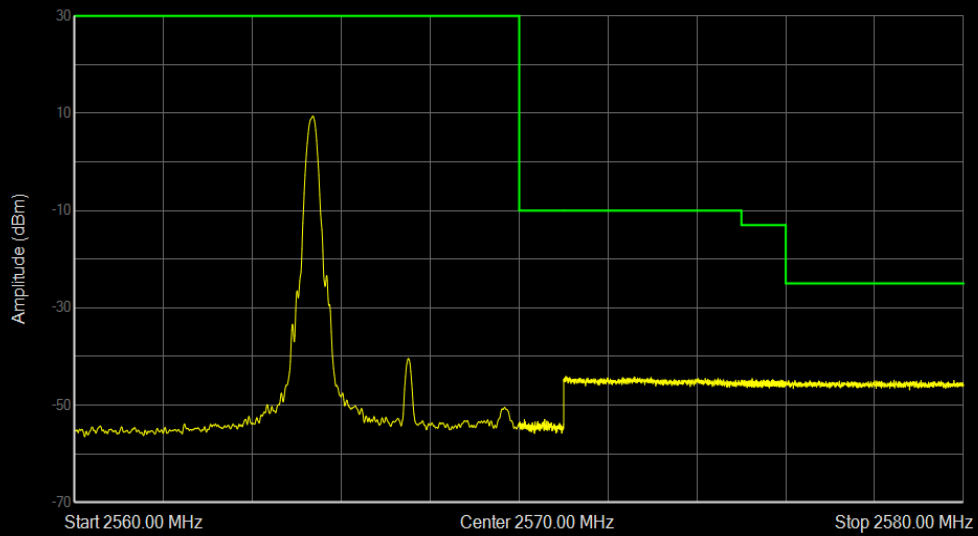
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.588	-44.56	-25
2	2494	2496	1000	2495.848	-43.87	-13
3	2496	2499	1000	2498.964	-43.88	-10
4	2499	2500	100	2499.452	-53.02	-10

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=25@0



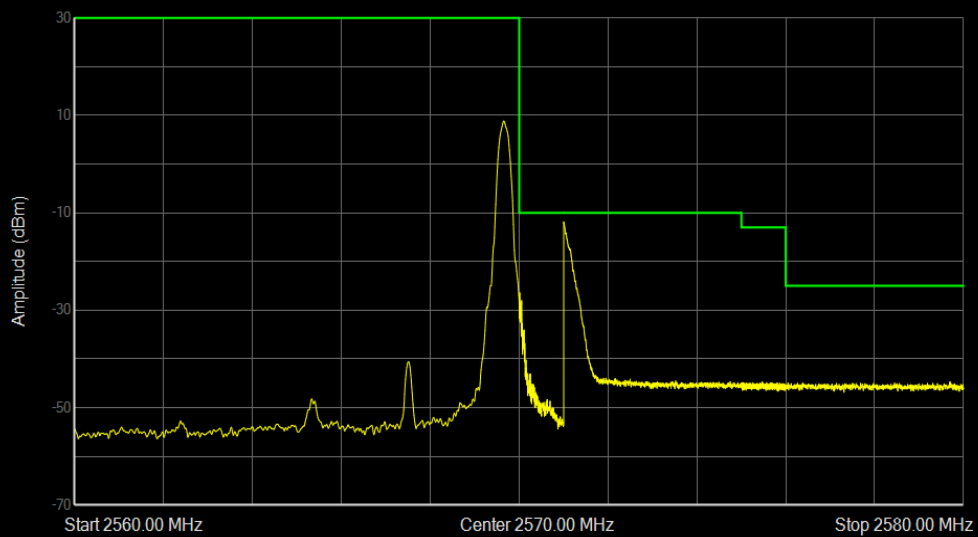
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.536	-42.49	-25
2	2494	2496	1000	2495.934	-37.21	-13
3	2496	2499	1000	2499	-21.85	-10
4	2499	2500	100	2499.973	-33.9	-10

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@0



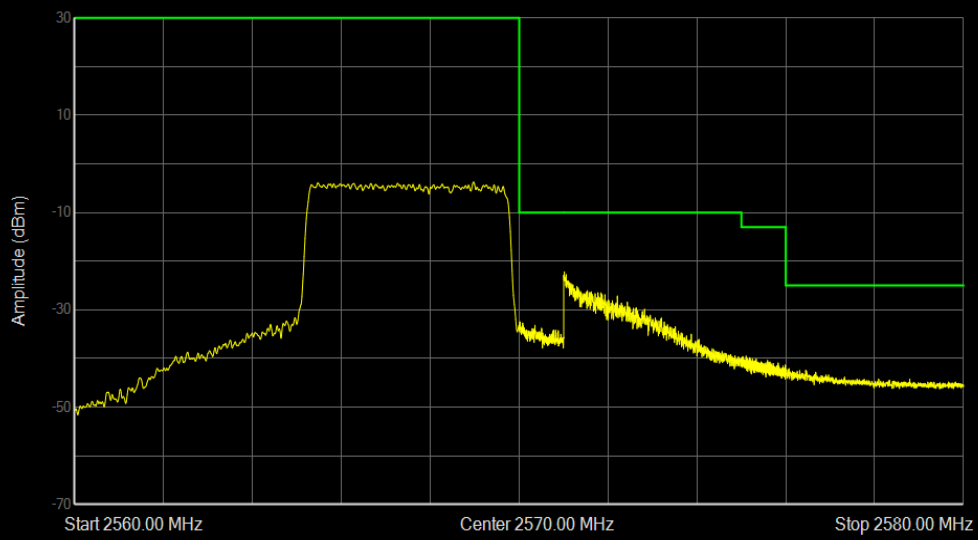
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.573	-52.93	-10
3	2571	2575	1000	2571.052	-44.11	-10
4	2575	2576	1000	2575.243	-44.55	-13
5	2576	2580	1000	2578.432	-44.88	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.01	-26.41	-10
3	2571	2575	1000	2571.004	-12.03	-10
4	2575	2576	1000	2575.47	-44.68	-13
5	2576	2580	1000	2579.688	-44.77	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=25@0

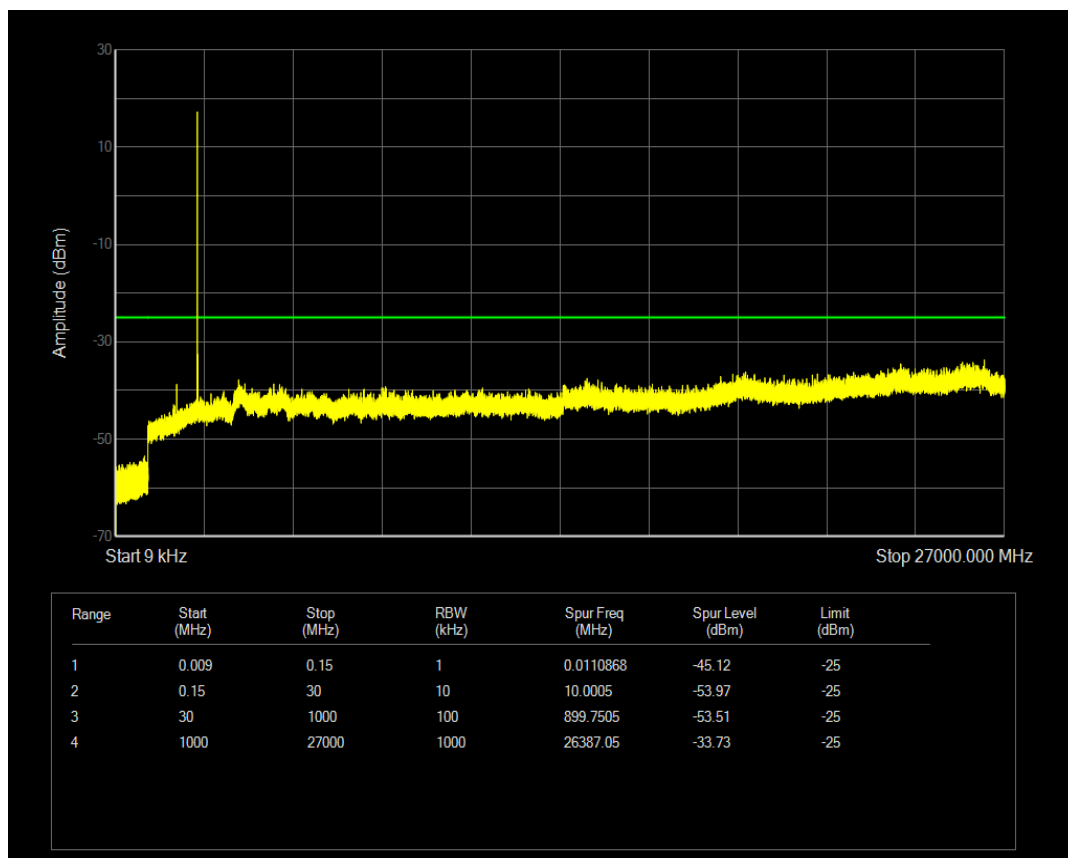


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.016	-32.47	-10
3	2571	2575	1000	2571.016	-22.2	-10
4	2575	2576	1000	2575.106	-39.5	-13
5	2576	2580	1000	2576.072	-42.08	-25

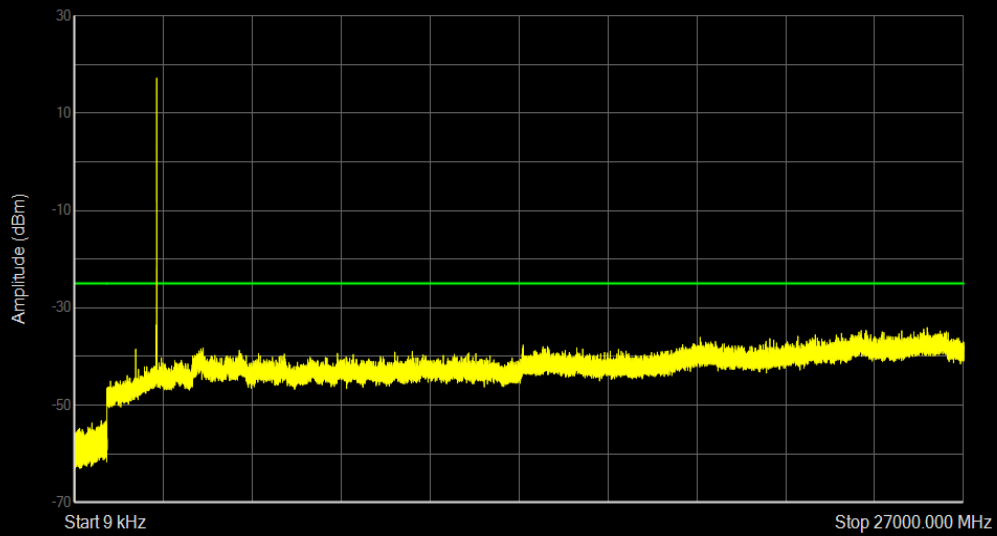
6 Out-of-band emissions for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	26173.20	-33.95	-25	PASS
n7	15	5	500500	1@0	CP_QPSK	26113.40	-33.98	-25	PASS
n7	15	5	500500	1@24	CP_QPSK	23941.75	-33.98	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	26129.00	-32.87	-25	PASS
n7	15	5	513500	1@0	CP_QPSK	26069.85	-34.05	-25	PASS
n7	15	5	513500	1@24	CP_QPSK	26467.00	-33.95	-25	PASS
n7	15	15	501500	79@0	CP_QPSK	23905.35	-33.69	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	26387.05	-33.73	-25	PASS
n7	15	15	501500	1@78	CP_QPSK	25896.30	-34.07	-25	PASS
n7	15	15	512500	79@0	CP_QPSK	23846.85	-33.46	-25	PASS
n7	15	15	512500	1@0	CP_QPSK	26002.90	-33.49	-25	PASS
n7	15	15	512500	1@78	CP_QPSK	25789.70	-33.79	-25	PASS
n7	15	20	502000	106@0	CP_QPSK	25869.00	-33.55	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	24032.75	-34.49	-25	PASS
n7	15	20	502000	1@105	CP_QPSK	25699.35	-33.58	-25	PASS
n7	15	20	512000	106@0	CP_QPSK	26193.35	-33.95	-25	PASS
n7	15	20	512000	1@0	CP_QPSK	26229.75	-33.97	-25	PASS
n7	15	20	512000	1@105	CP_QPSK	25738.35	-34.06	-25	PASS

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@0

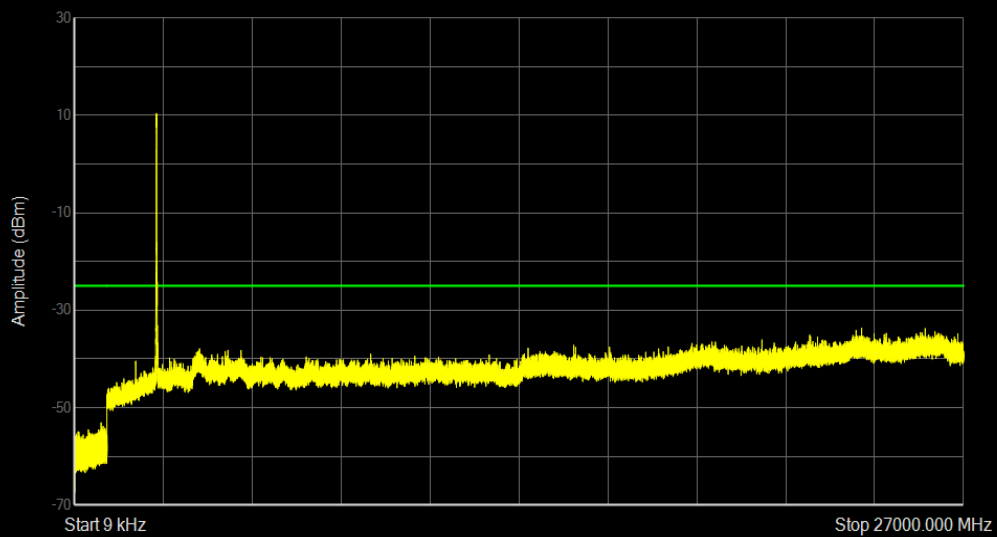


n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@78



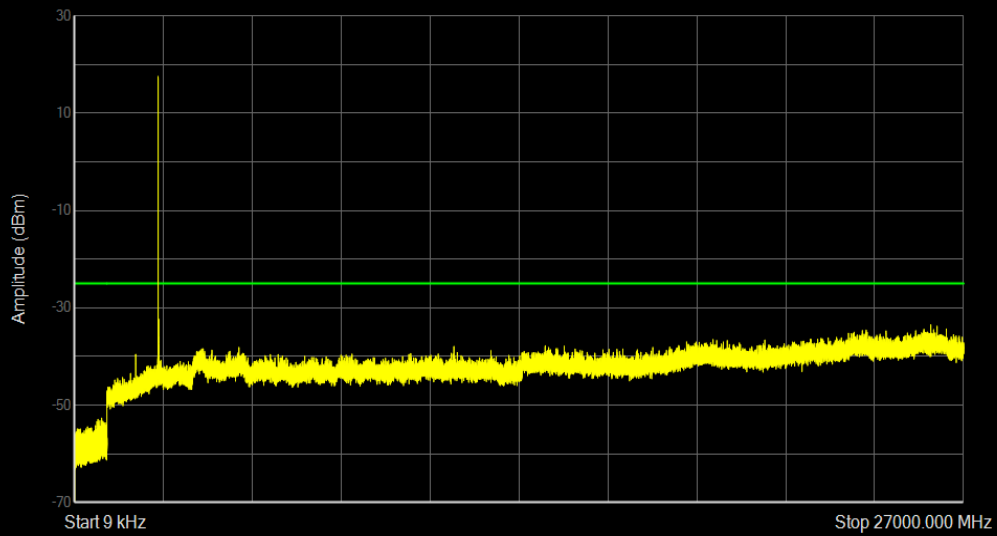
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010829475	-45.05	-25
2	0.15	30	10	10.0005	-53.49	-25
3	30	1000	100	832.3355	-53.2	-25
4	1000	27000	1000	25896.3	-34.07	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=79@0



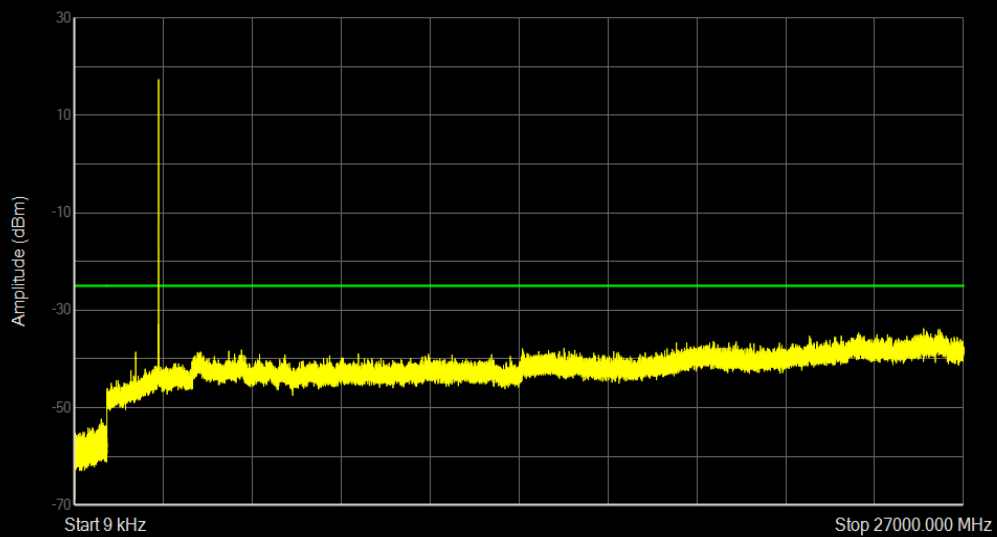
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.016885425	-45.82	-25
2	0.15	30	10	9.99975375	-54.72	-25
3	30	1000	100	825.23025	-53.09	-25
4	1000	27000	1000	23905.35	-33.69	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0



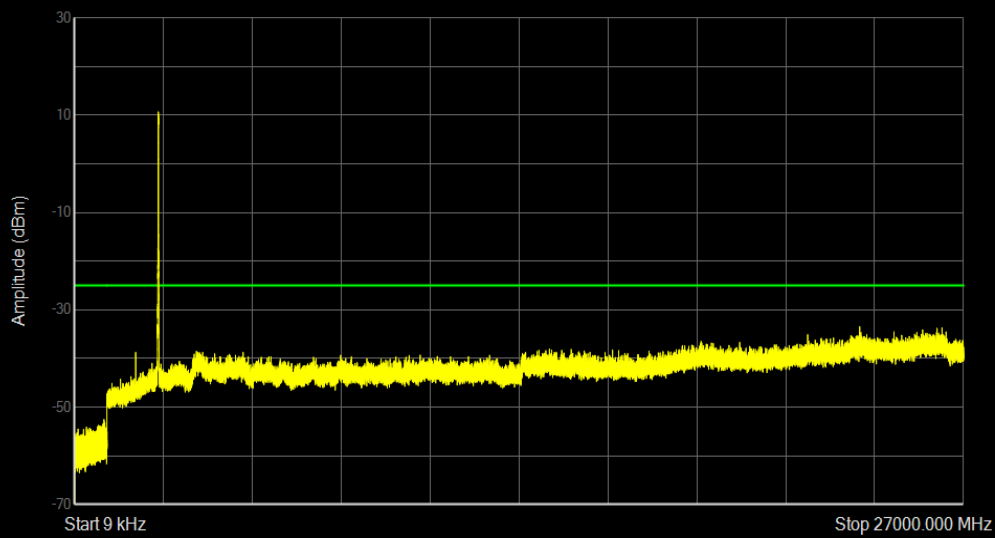
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011894025	-45.09	-25
2	0.15	30	10	9.99975375	-54.12	-25
3	30	1000	100	841.599	-52.66	-25
4	1000	27000	1000	26002.9	-33.49	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@78



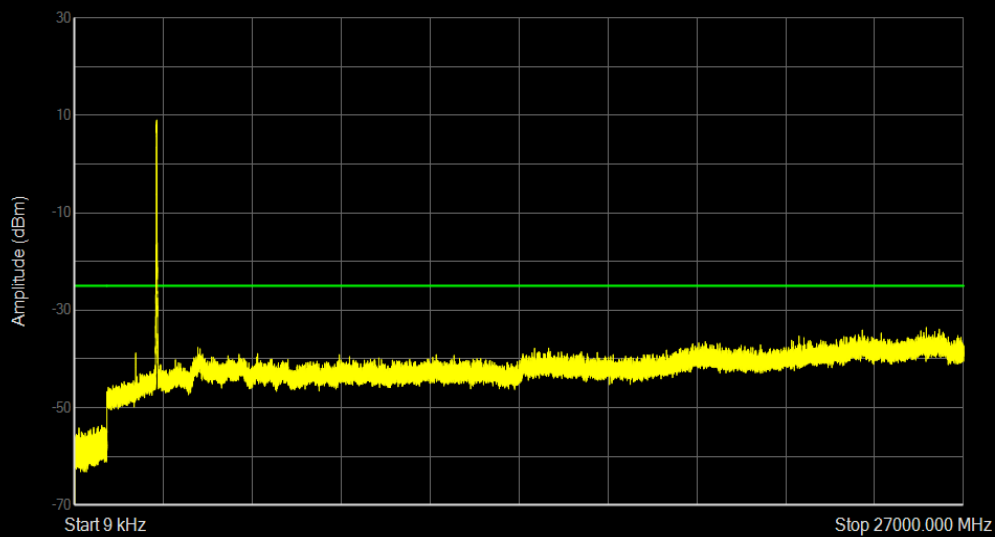
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00975435	-44.75	-25
2	0.15	30	10	9.99975375	-54.07	-25
3	30	1000	100	832.40825	-52.36	-25
4	1000	27000	1000	25789.7	-33.79	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=79@0

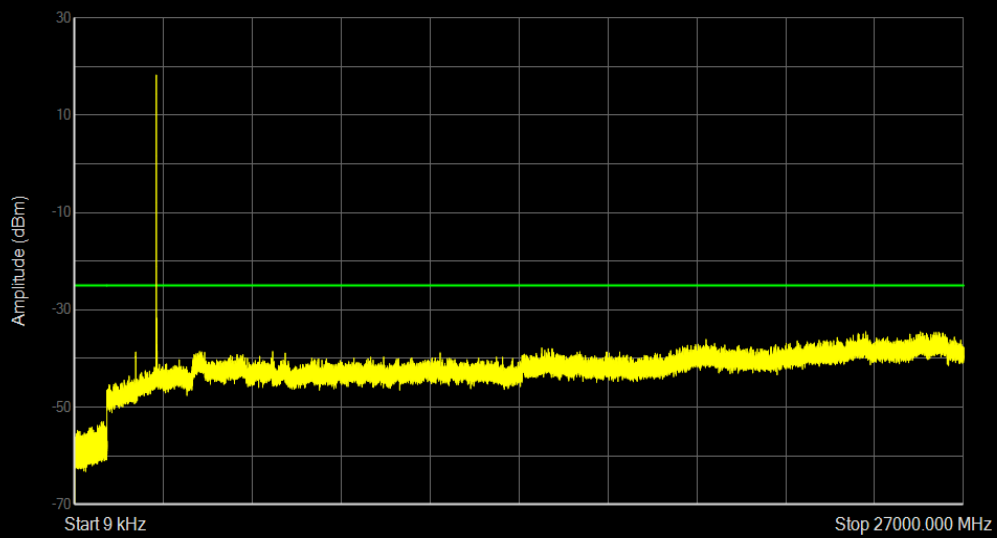


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01184115	-44.43	-25
2	0.15	30	10	9.99975375	-53.95	-25
3	30	1000	100	915.901	-52.53	-25
4	1000	27000	1000	23846.85	-33.46	-25

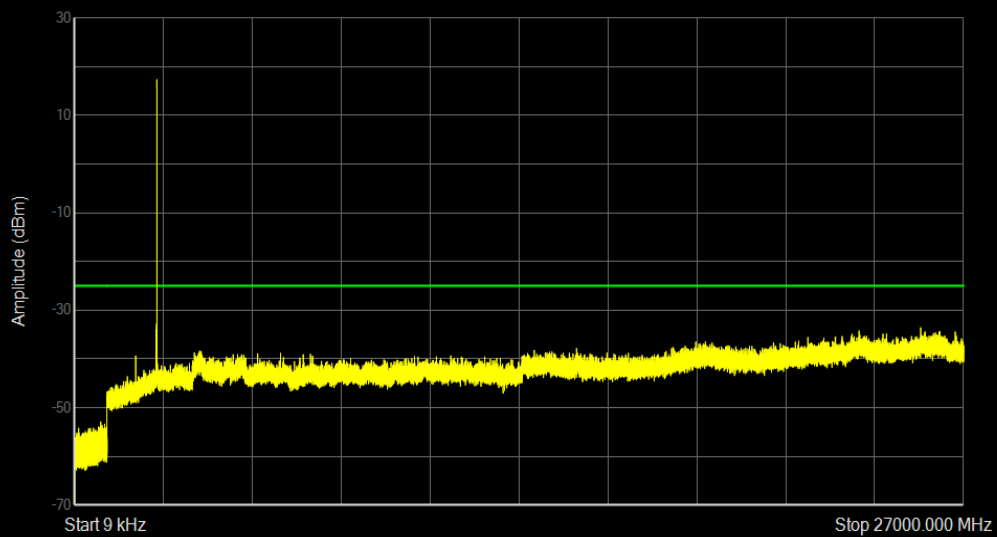
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=106@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0134979	-44.64	-25
2	0.15	30	10	9.99975375	-53.99	-25
3	30	1000	100	846.158	-53.65	-25
4	1000	27000	1000	25869	-33.55	-25

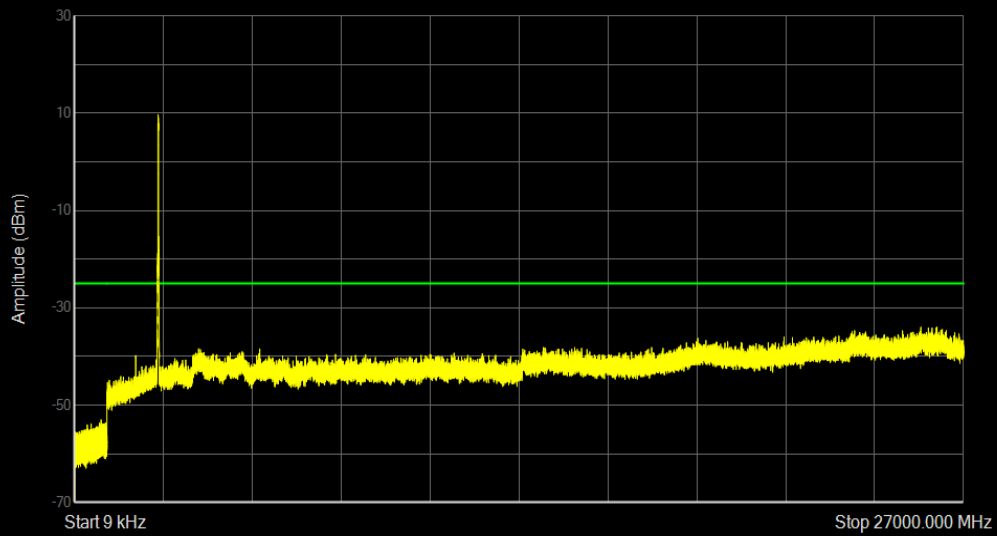
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011048025	-45.24	-25
2	0.15	30	10	9.99975375	-54.2	-25
3	30	1000	100	849.48025	-53.03	-25
4	1000	27000	1000	24032.75	-34.49	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@105

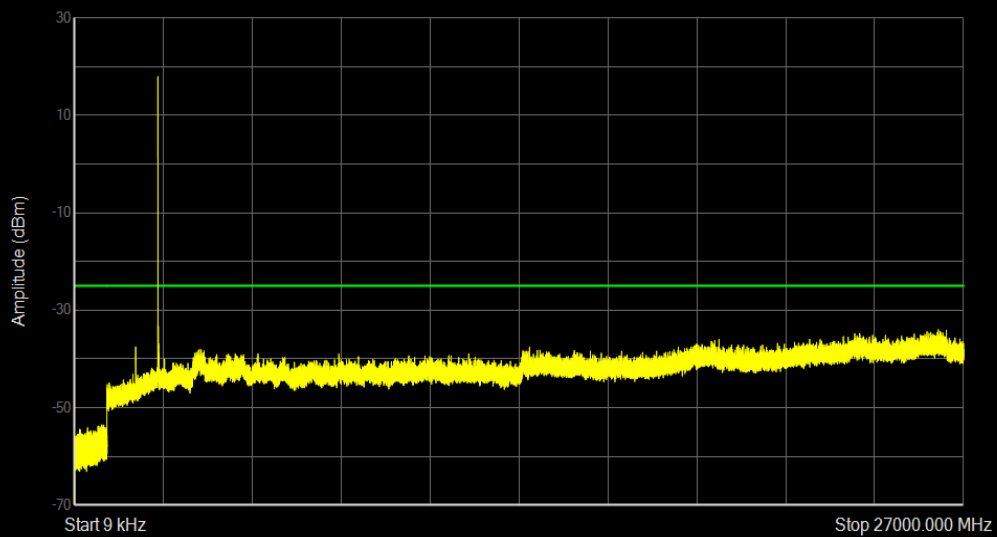
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.014185275	-45.06	-25
2	0.15	30	10	0.16567125	-56.22	-25
3	30	1000	100	814.99675	-52.9	-25
4	1000	27000	1000	25699.35	-33.58	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=106@0



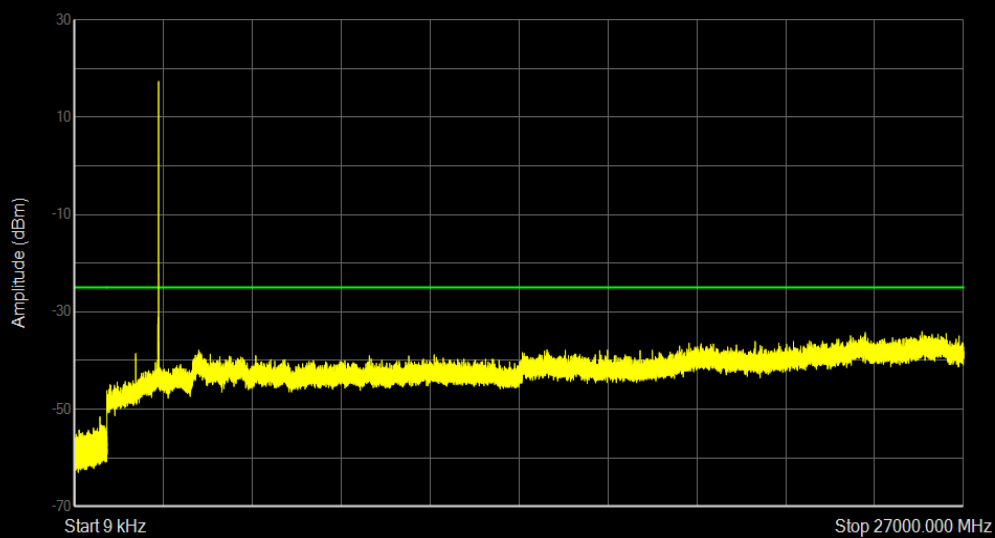
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093948	-44.53	-25
2	0.15	30	10	0.15970125	-56.21	-25
3	30	1000	100	825.7395	-53.05	-25
4	1000	27000	1000	26193.35	-33.95	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@0



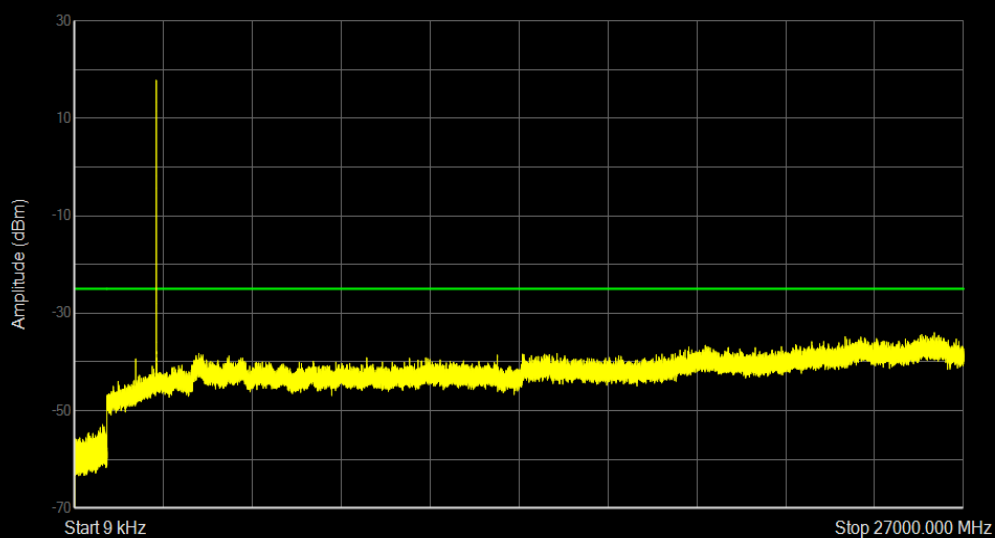
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009356025	-46.36	-25
2	0.15	30	10	0.16194	-56.18	-25
3	30	1000	100	848.195	-53.52	-25
4	1000	27000	1000	26229.75	-33.97	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@105



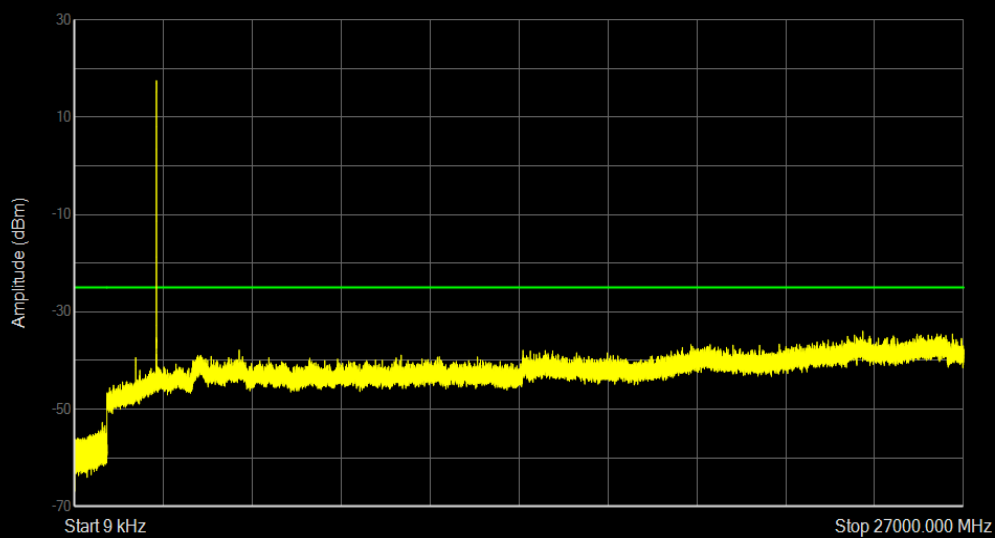
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011922225	-45.61	-25
2	0.15	30	10	0.15522375	-56.32	-25
3	30	1000	100	790.577	-51.6	-25
4	1000	27000	1000	25738.35	-34.06	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@0



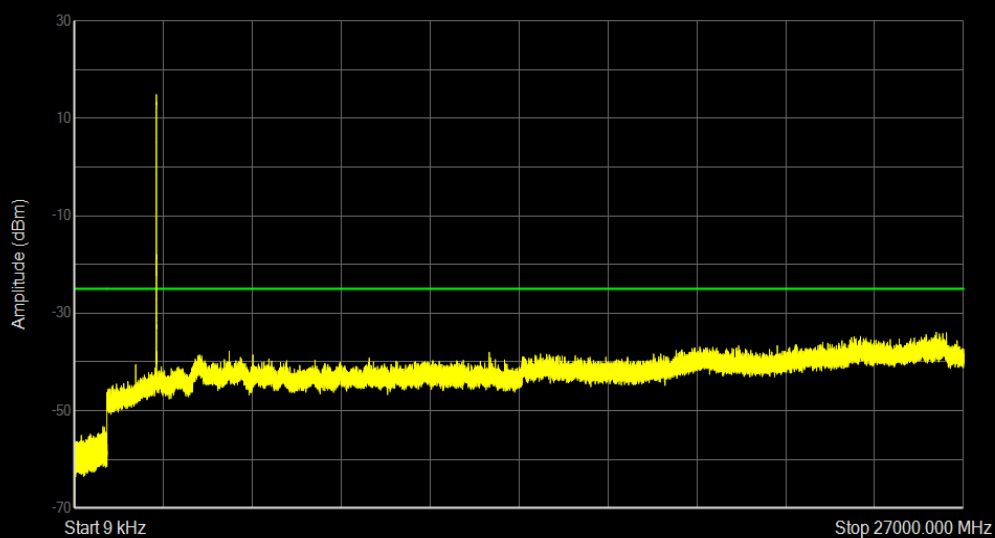
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01732605	-45.61	-25
2	0.15	30	10	9.99975375	-54.61	-25
3	30	1000	100	871.98425	-52.87	-25
4	1000	27000	1000	26113.4	-33.98	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@24



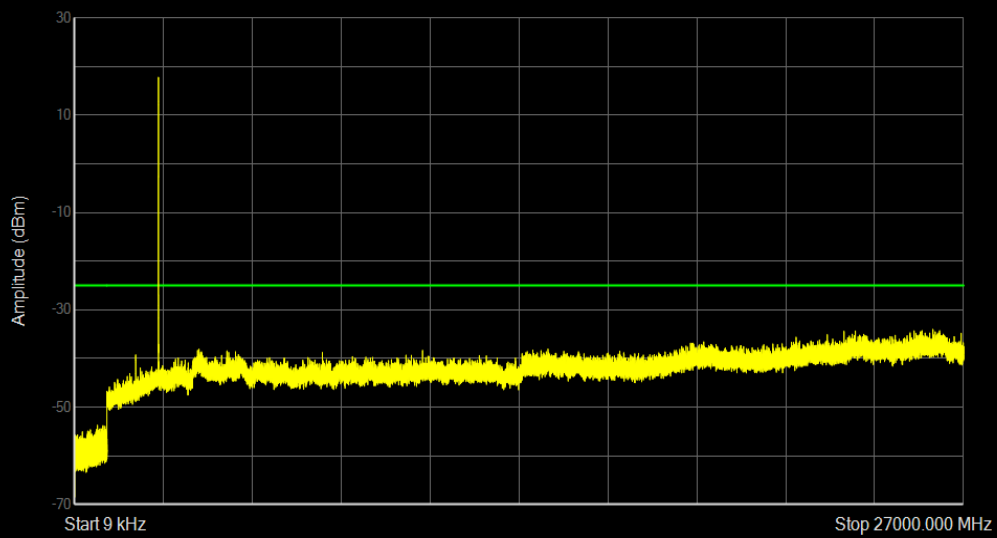
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010265475	-45.13	-25
2	0.15	30	10	9.99975375	-55.54	-25
3	30	1000	100	863.2785	-52.76	-25
4	1000	27000	1000	23941.75	-33.98	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=25@0



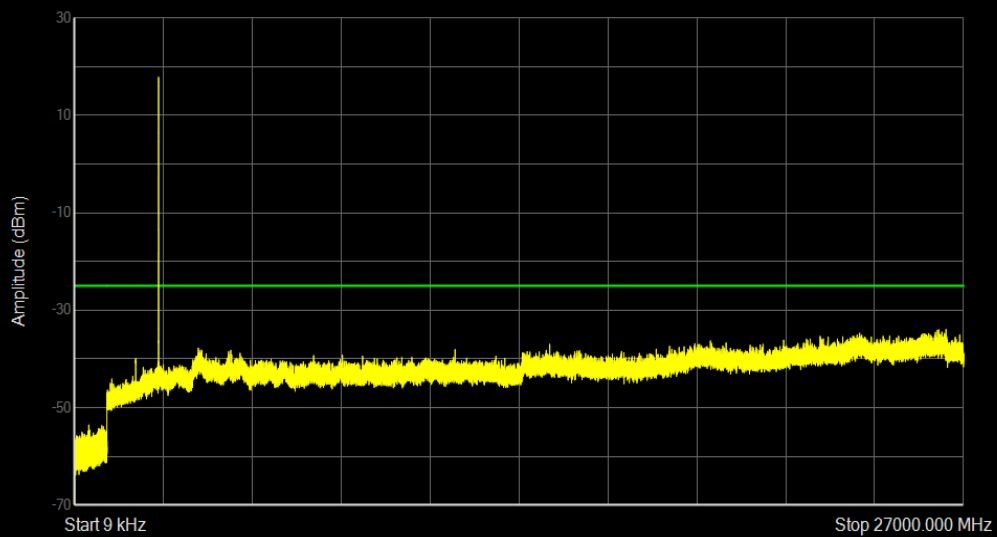
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00902115	-44.81	-25
2	0.15	30	10	0.15671625	-54.54	-25
3	30	1000	100	882.60575	-53.29	-25
4	1000	27000	1000	26173.2	-33.95	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013536675	-46.35	-25
2	0.15	30	10	10.0005	-53.89	-25
3	30	1000	100	716.39625	-53.72	-25
4	1000	27000	1000	26069.85	-34.05	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012563775	-43.09	-25
2	0.15	30	10	0.1514925	-54.61	-25
3	30	1000	100	453.211	-53.55	-25
4	1000	27000	1000	26467	-33.95	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=25@0

