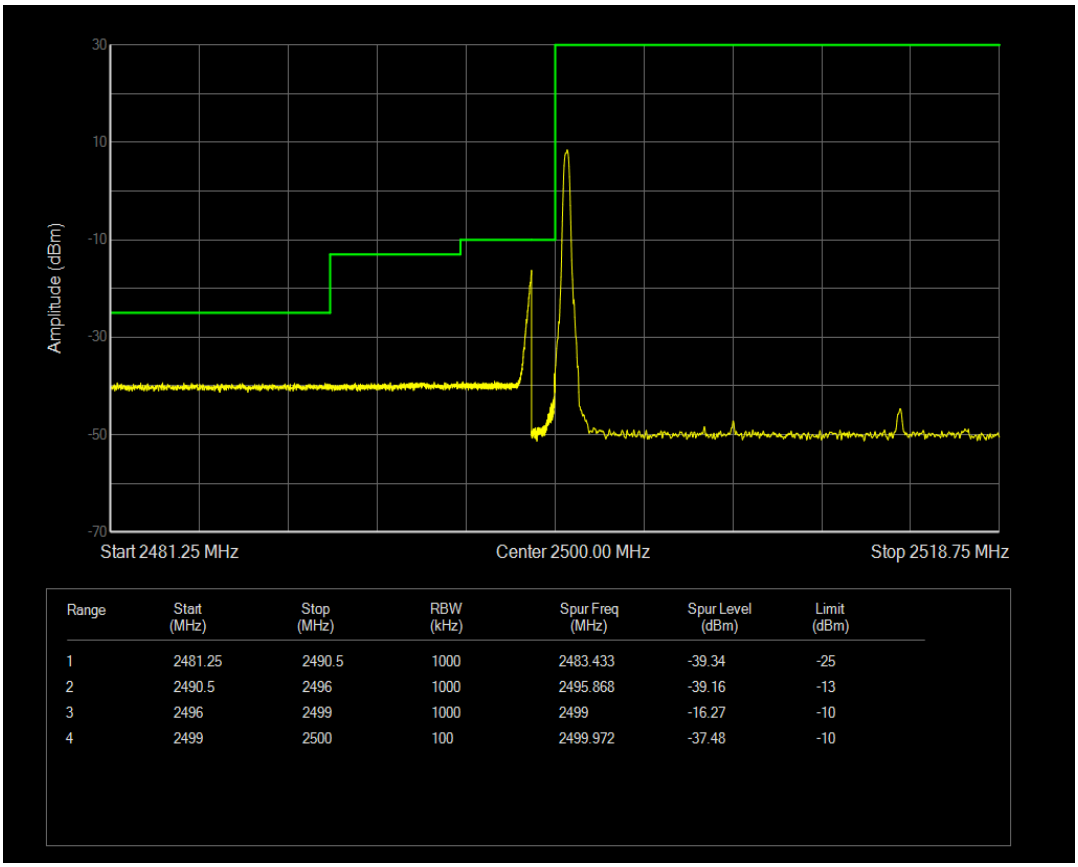
n7 SCS=15kHz DFT_QPSK BW=20MHz Channel=507000 RB=100@0

5 Band edge for EN-DC

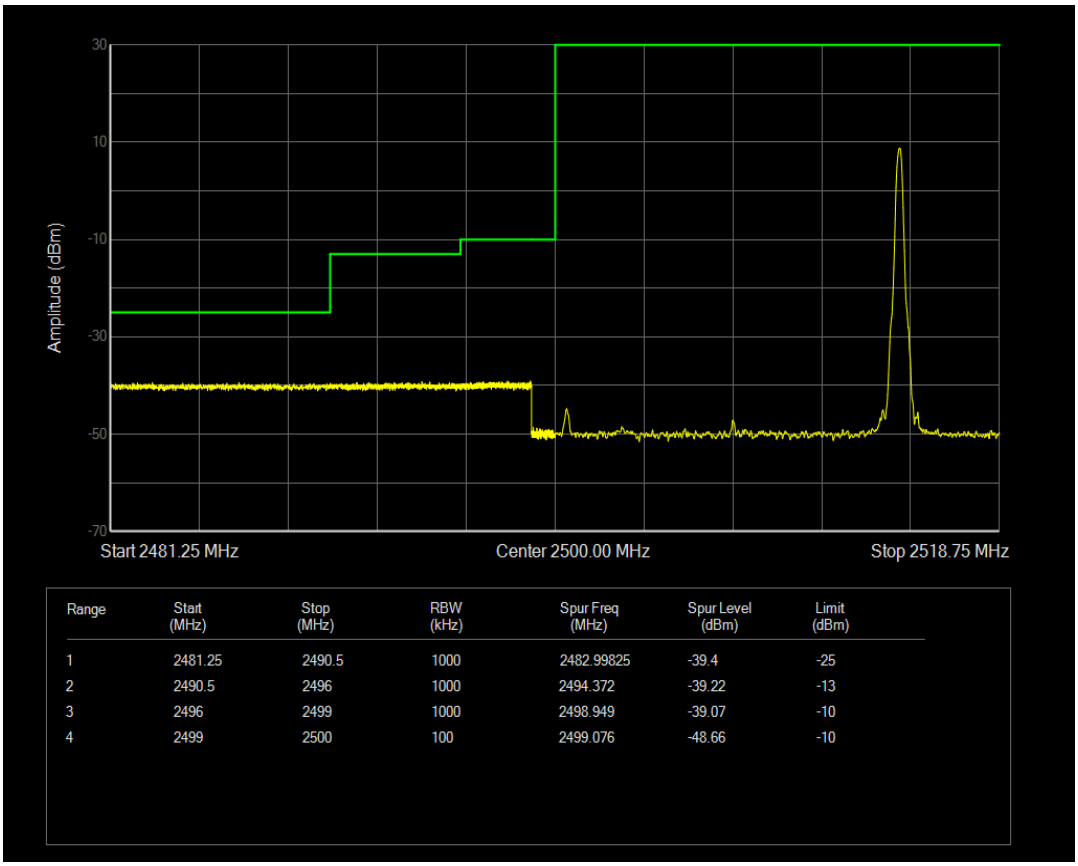
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	2499.00	-23.77	-10	PASS
n7	15	5	500500	1@0	CP_QPSK	2499.00	-11.30	-10	PASS
n7	15	5	500500	1@24	CP_QPSK	2490.08	-39.13	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	2576.49	-39.05	-25	PASS
n7	15	5	513500	1@0	CP_QPSK	2578.92	-39.25	-25	PASS
n7	15	5	513500	1@24	CP_QPSK	2571.00	-12.85	-10	PASS
n7	15	15	501500	79@0	CP_QPSK	2490.22	-38.64	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	2499.00	-16.27	-10	PASS
n7	15	15	501500	1@78	CP_QPSK	2483.00	-39.40	-25	PASS
n7	15	15	512500	79@0	CP_QPSK	2588.12	-39.32	-25	PASS
n7	15	15	512500	1@0	CP_QPSK	2587.35	-39.39	-25	PASS
n7	15	15	512500	1@78	CP_QPSK	2571.00	-17.73	-10	PASS
n7	15	20	502000	106@0	CP_QPSK	2490.44	-38.35	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	2499.00	-19.67	-10	PASS
n7	15	20	502000	1@105	CP_QPSK	2487.62	-39.12	-25	PASS
n7	15	20	512000	106@0	CP_QPSK	2593.07	-39.24	-25	PASS
n7	15	20	512000	1@0	CP_QPSK	2590.60	-39.32	-25	PASS
n7	15	20	512000	1@105	CP_QPSK	2571.00	-20.85	-10	PASS

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



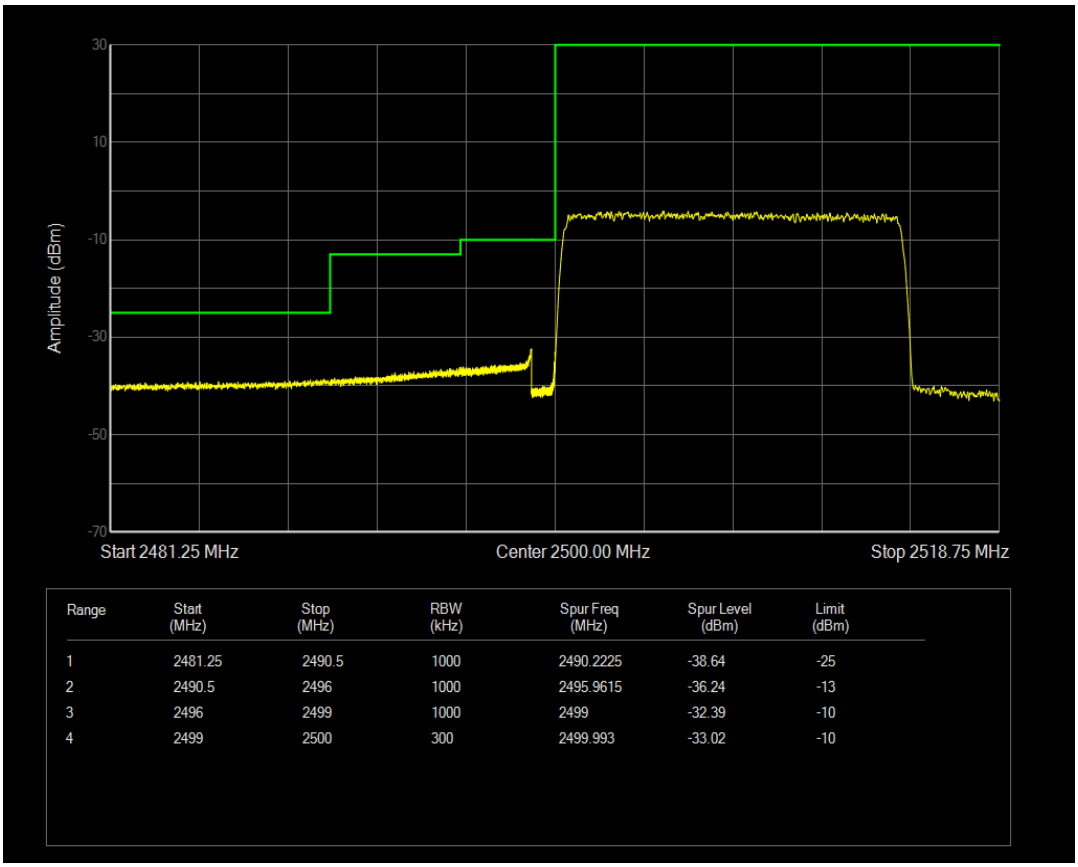
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2483.433	-39.34	-25
2	2490.5	2496	1000	2495.868	-39.16	-13
3	2496	2499	1000	2499	-16.27	-10
4	2499	2500	100	2499.972	-37.48	-10

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



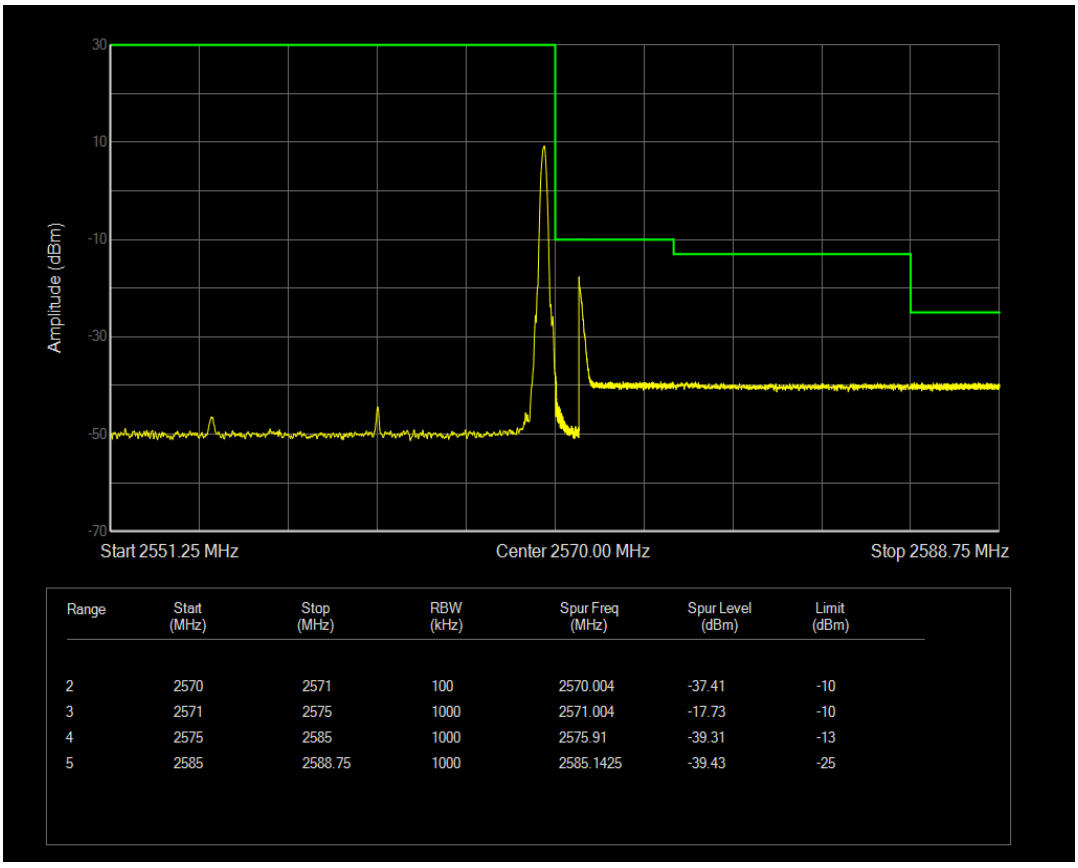
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2482.99825	-39.4	-25
2	2490.5	2496	1000	2494.372	-39.22	-13
3	2496	2499	1000	2498.949	-39.07	-10
4	2499	2500	100	2499.076	-48.66	-10

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



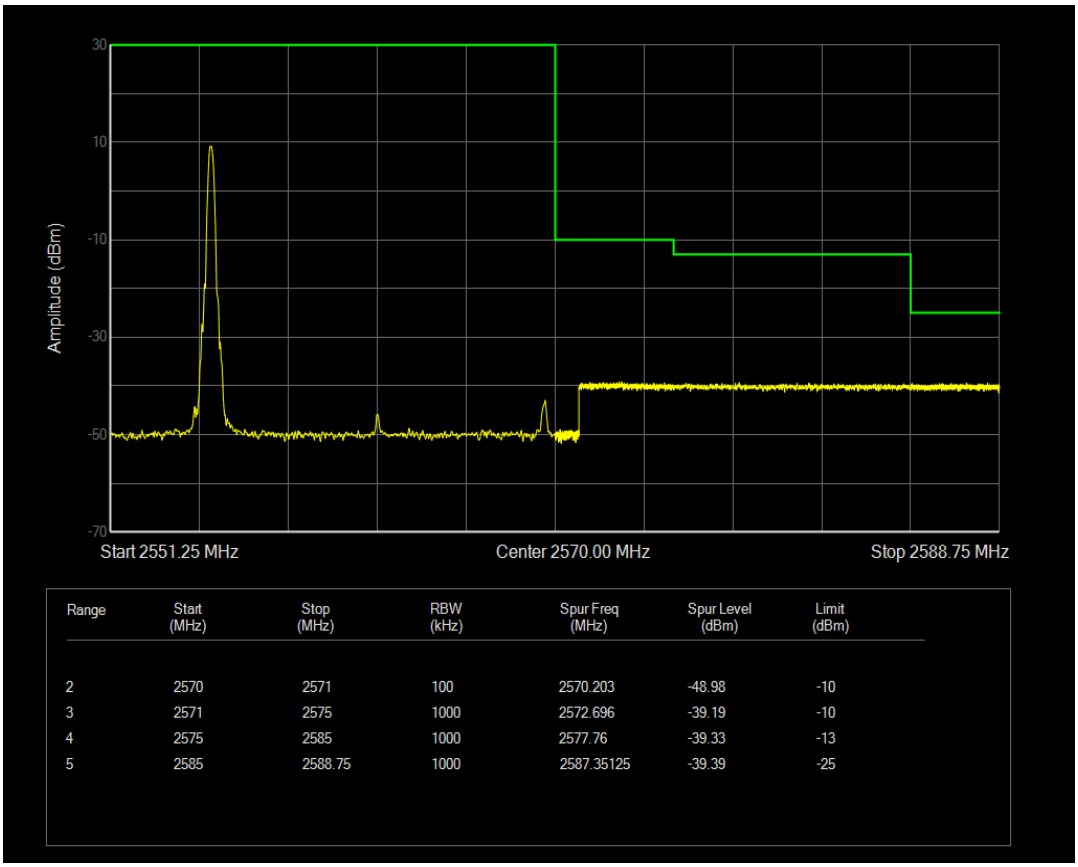
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2490.2225	-38.64	-25
2	2490.5	2496	1000	2495.9615	-36.24	-13
3	2496	2499	1000	2499	-32.39	-10
4	2499	2500	300	2499.993	-33.02	-10

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



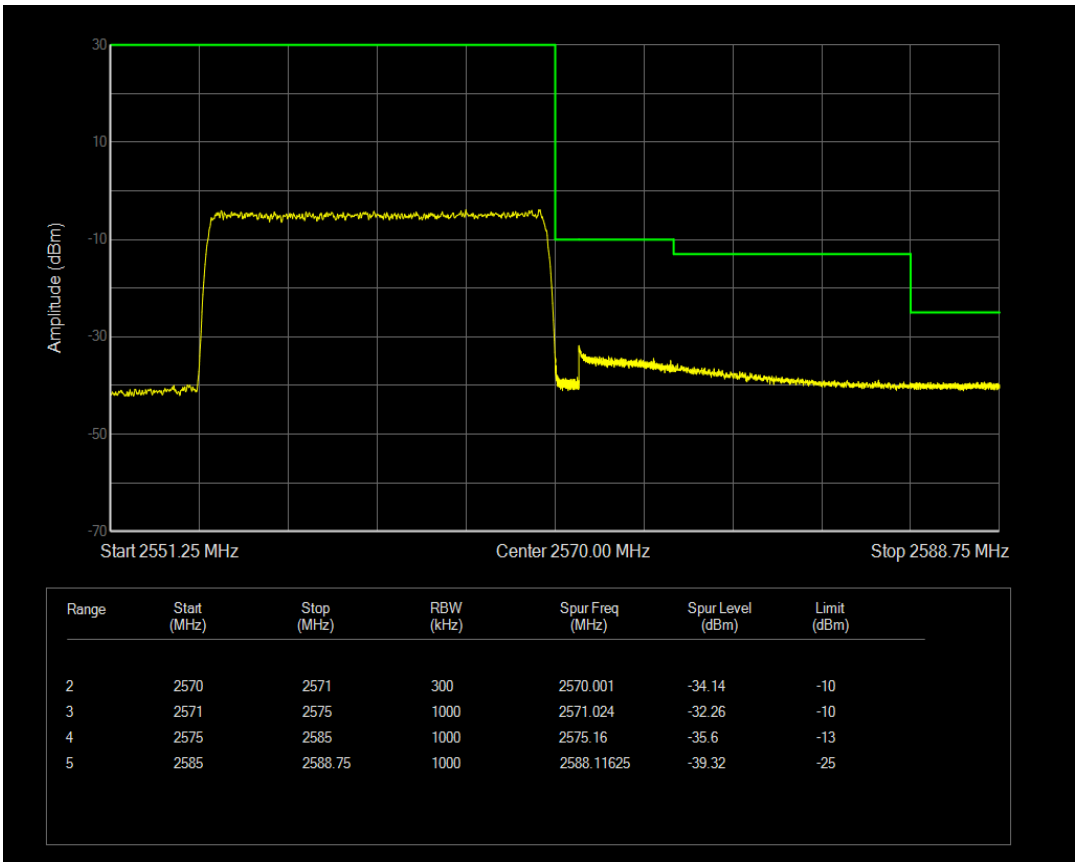
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.004	-37.41	-10
3	2571	2575	1000	2571.004	-17.73	-10
4	2575	2585	1000	2575.91	-39.31	-13
5	2585	2588.75	1000	2585.1425	-39.43	-25

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



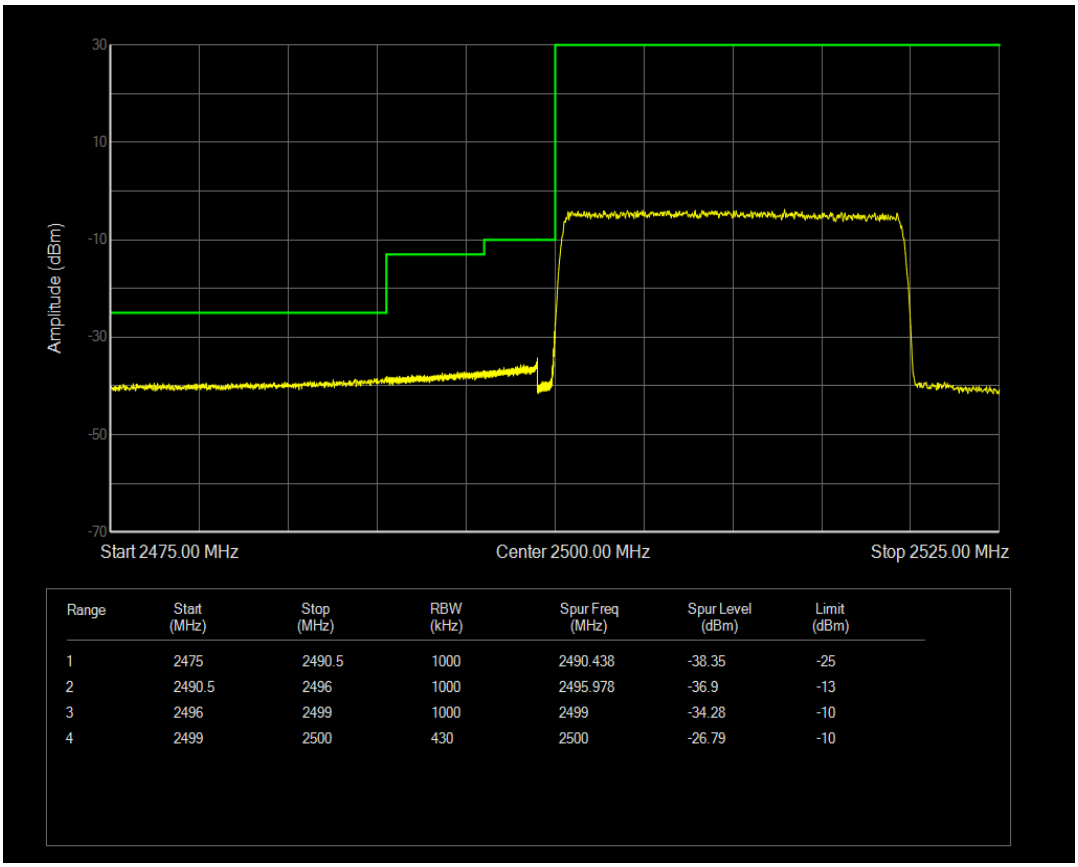
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.203	-48.98	-10
3	2571	2575	1000	2572.696	-39.19	-10
4	2575	2585	1000	2577.76	-39.33	-13
5	2585	2588.75	1000	2587.35125	-39.39	-25

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



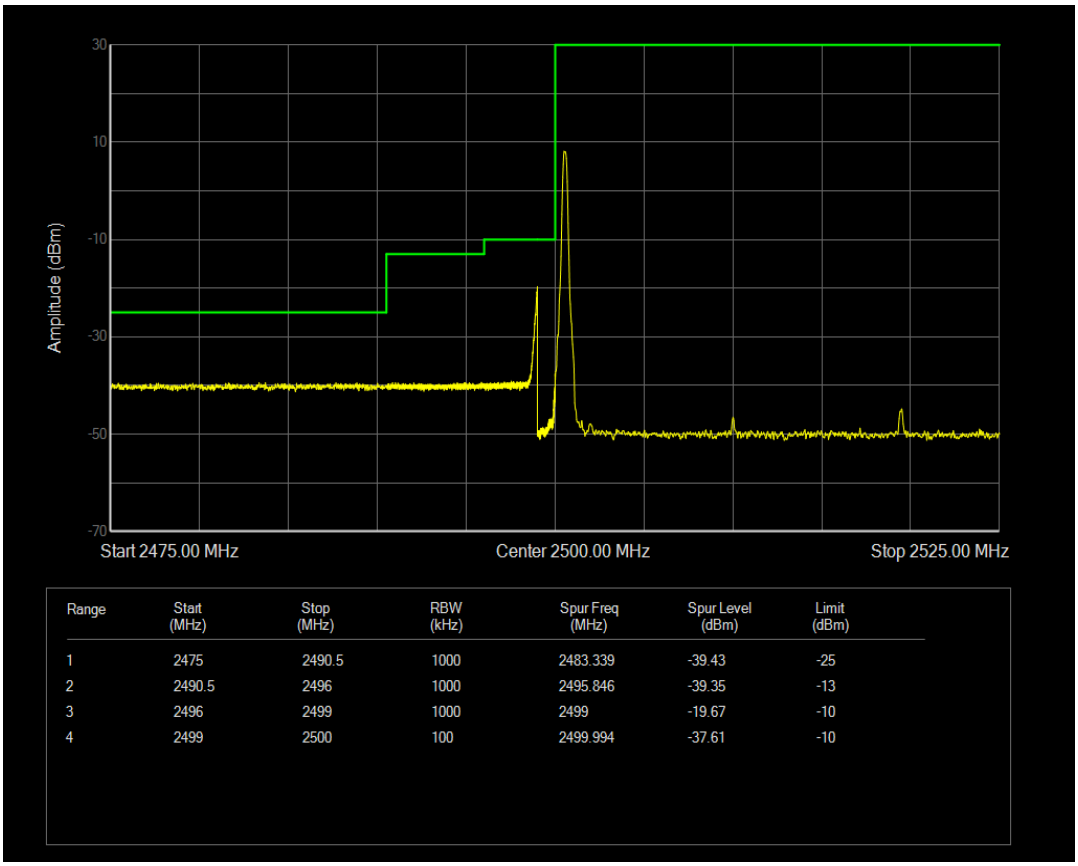
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.001	-34.14	-10
3	2571	2575	1000	2571.024	-32.26	-10
4	2575	2585	1000	2575.16	-35.6	-13
5	2585	2588.75	1000	2588.11625	-39.32	-25

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



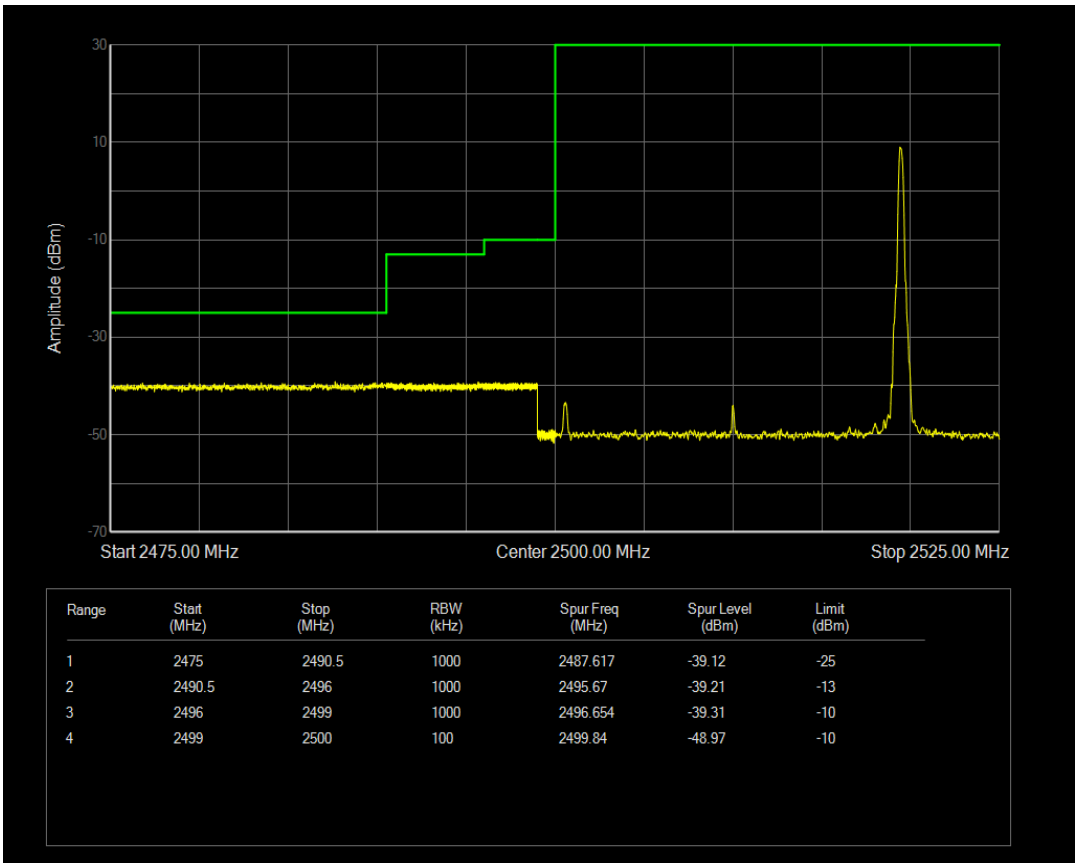
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.438	-38.35	-25
2	2490.5	2496	1000	2495.978	-36.9	-13
3	2496	2499	1000	2499	-34.28	-10
4	2499	2500	430	2500	-26.79	-10

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



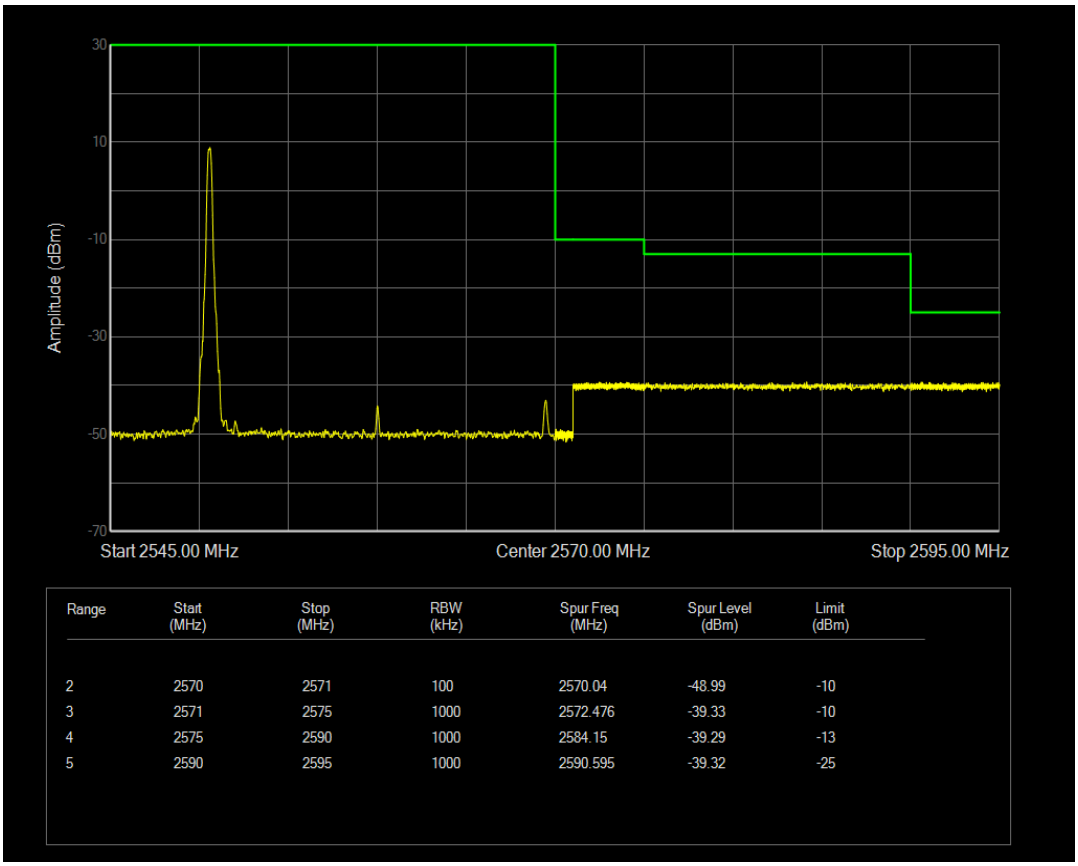
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2483.339	-39.43	-25
2	2490.5	2496	1000	2495.846	-39.35	-13
3	2496	2499	1000	2499	-19.67	-10
4	2499	2500	100	2499.994	-37.61	-10

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



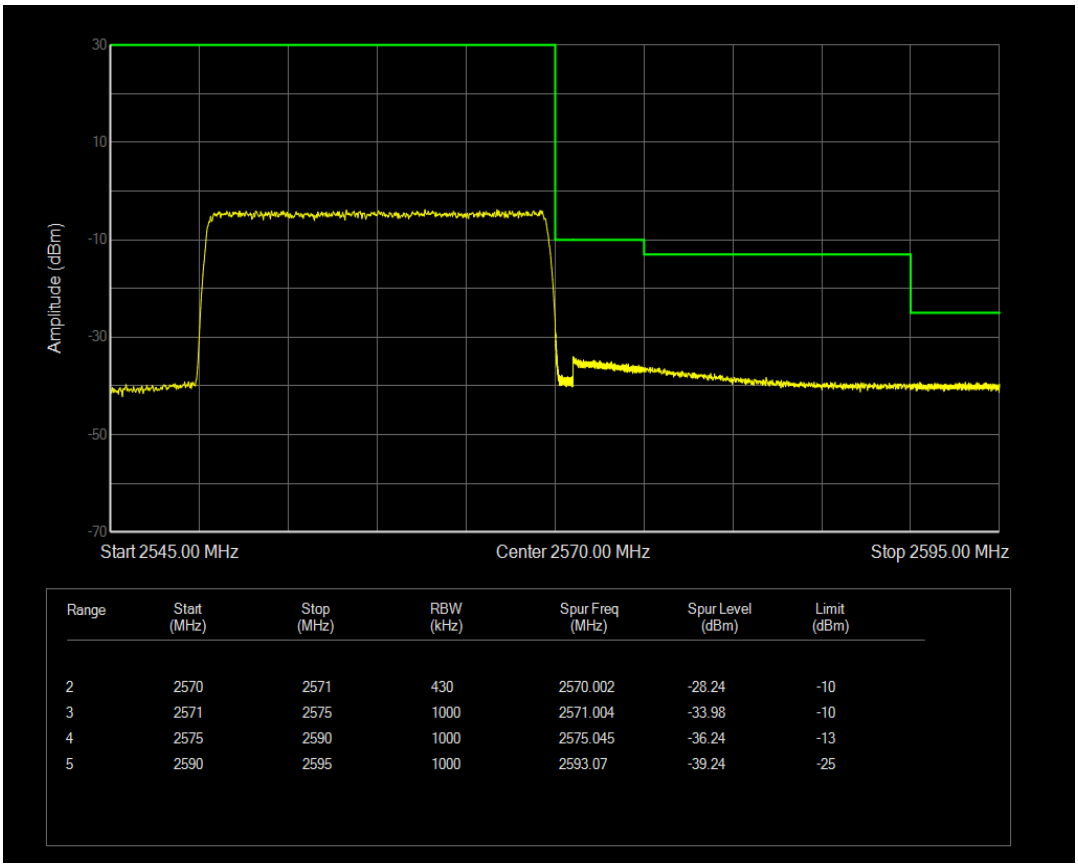
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2487.617	-39.12	-25
2	2490.5	2496	1000	2495.67	-39.21	-13
3	2496	2499	1000	2496.654	-39.31	-10
4	2499	2500	100	2499.84	-48.97	-10

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



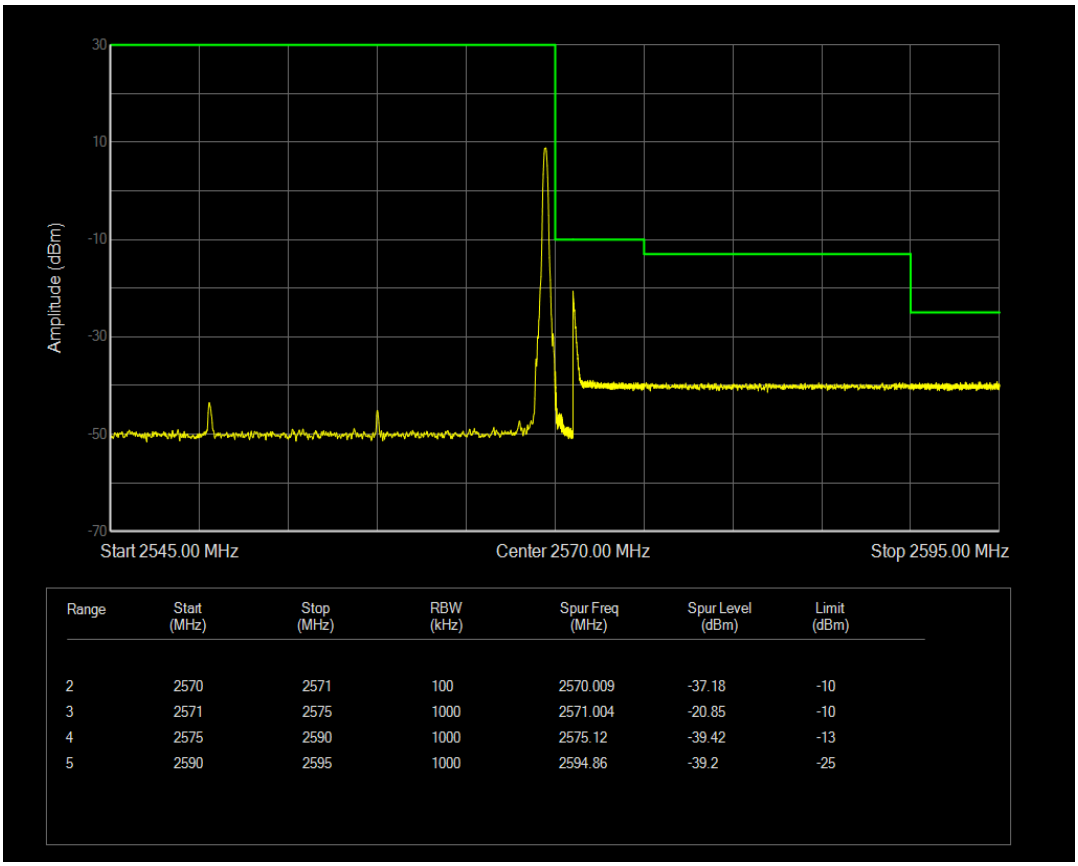
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.04	-48.99	-10
3	2571	2575	1000	2572.476	-39.33	-10
4	2575	2590	1000	2584.15	-39.29	-13
5	2590	2595	1000	2590.595	-39.32	-25

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



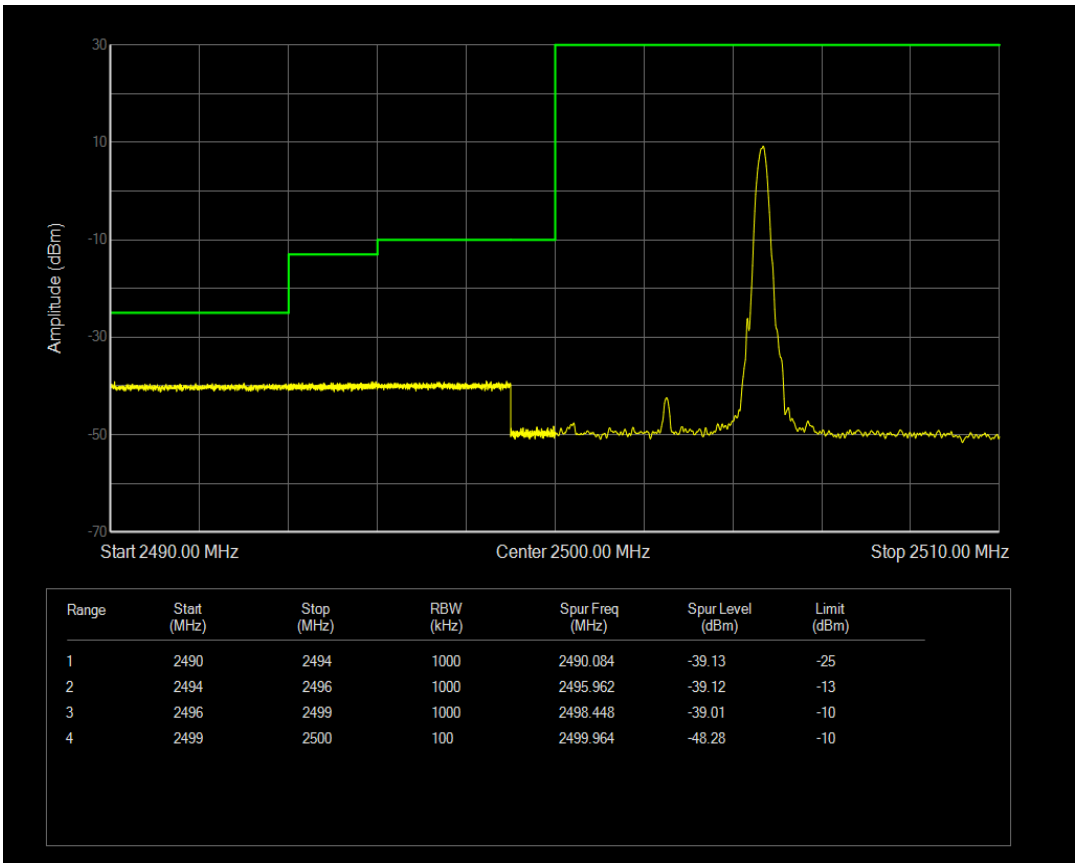
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.002	-28.24	-10
3	2571	2575	1000	2571.004	-33.98	-10
4	2575	2590	1000	2575.045	-36.24	-13
5	2590	2595	1000	2593.07	-39.24	-25

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



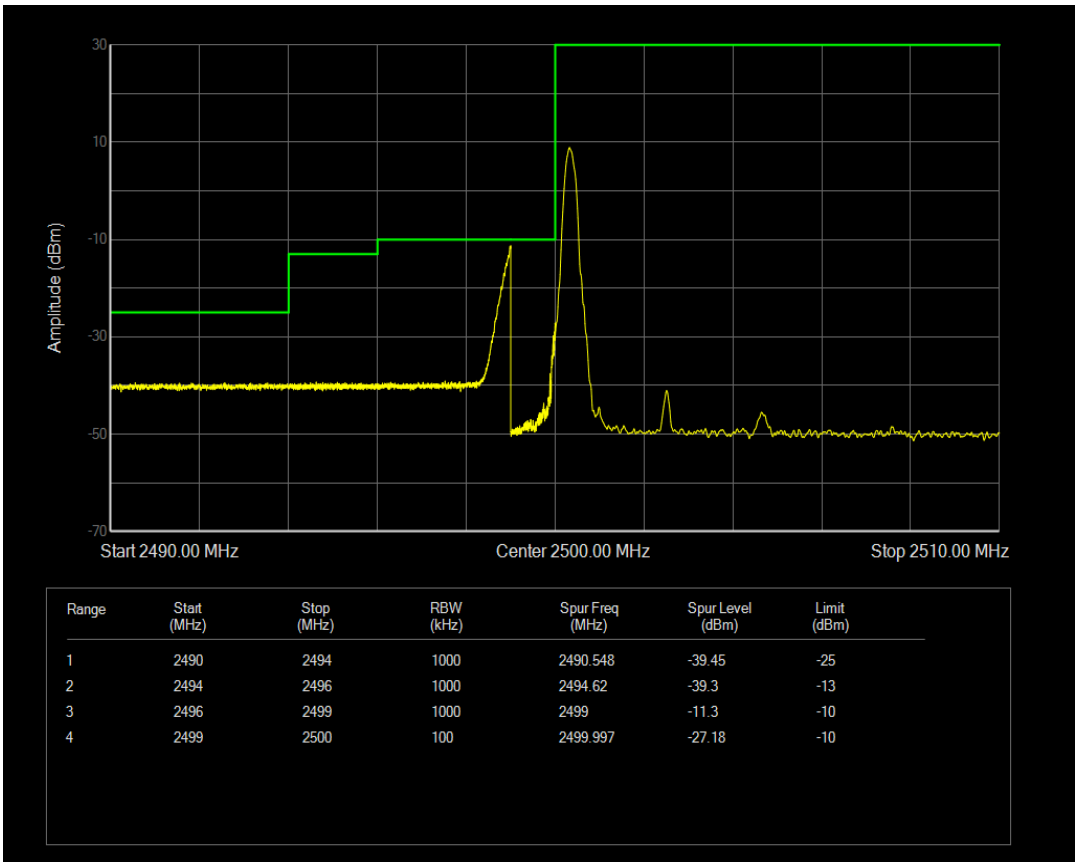
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.009	-37.18	-10
3	2571	2575	1000	2571.004	-20.85	-10
4	2575	2590	1000	2575.12	-39.42	-13
5	2590	2595	1000	2594.86	-39.2	-25

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



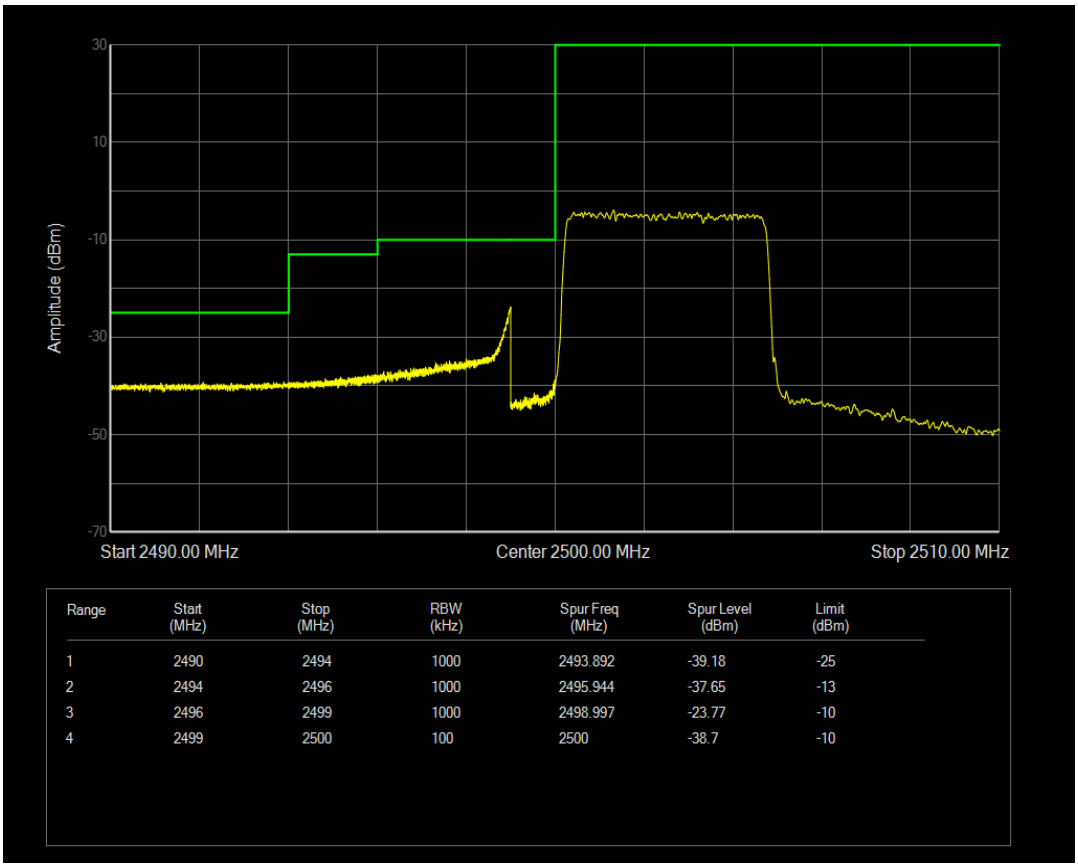
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2490.084	-39.13	-25
2	2494	2496	1000	2495.962	-39.12	-13
3	2496	2499	1000	2498.448	-39.01	-10
4	2499	2500	100	2499.964	-48.28	-10

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



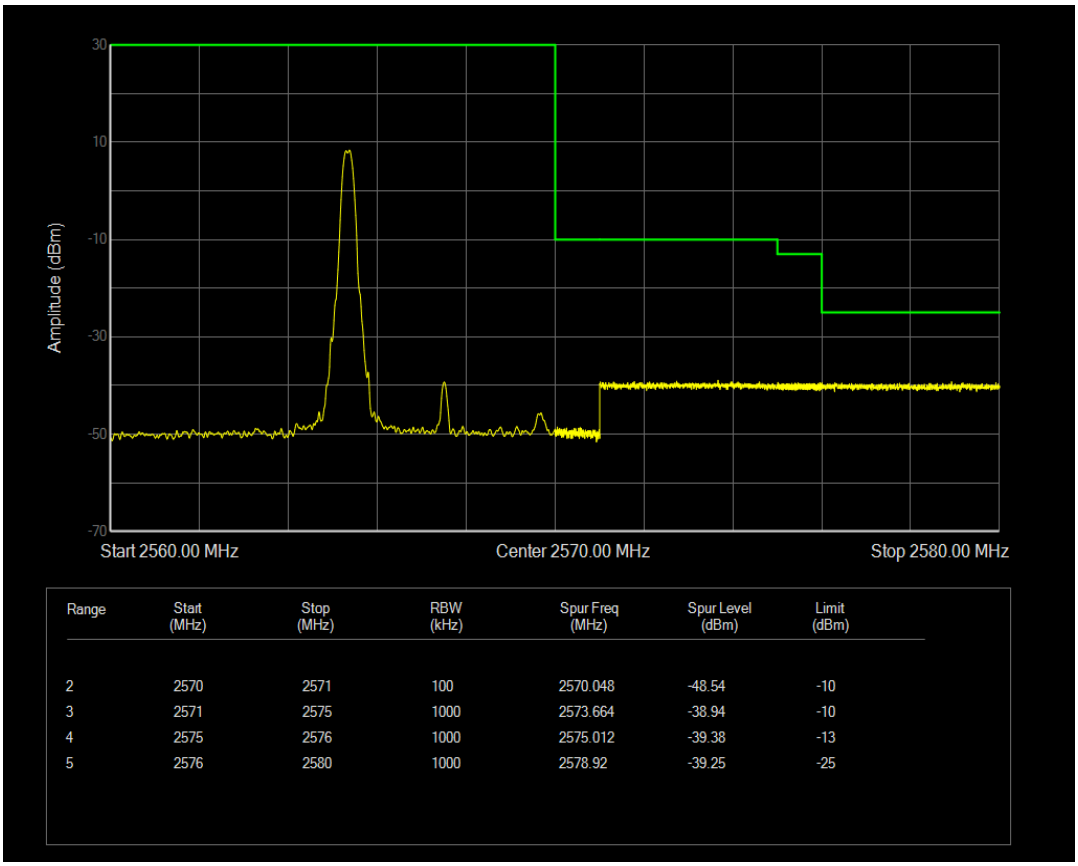
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2490.548	-39.45	-25
2	2494	2496	1000	2494.62	-39.3	-13
3	2496	2499	1000	2499	-11.3	-10
4	2499	2500	100	2499.997	-27.18	-10

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



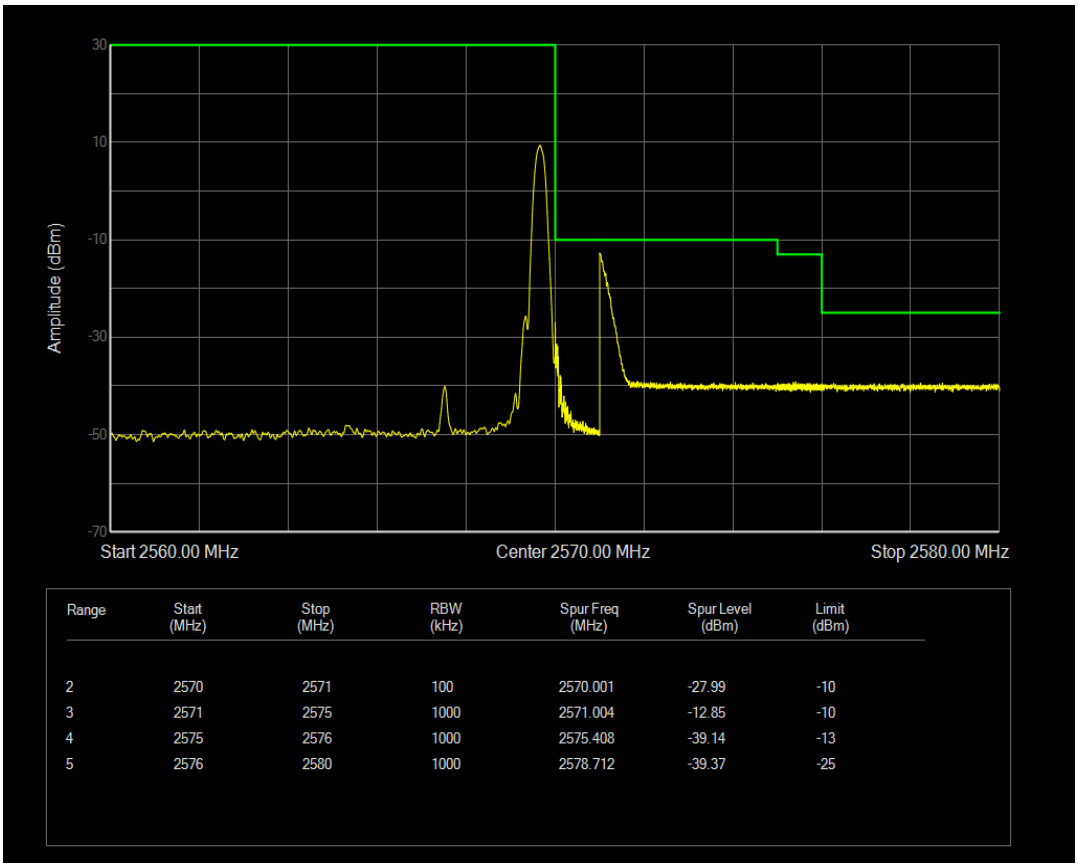
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.892	-39.18	-25
2	2494	2496	1000	2495.944	-37.65	-13
3	2496	2499	1000	2498.997	-23.77	-10
4	2499	2500	100	2500	-38.7	-10

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



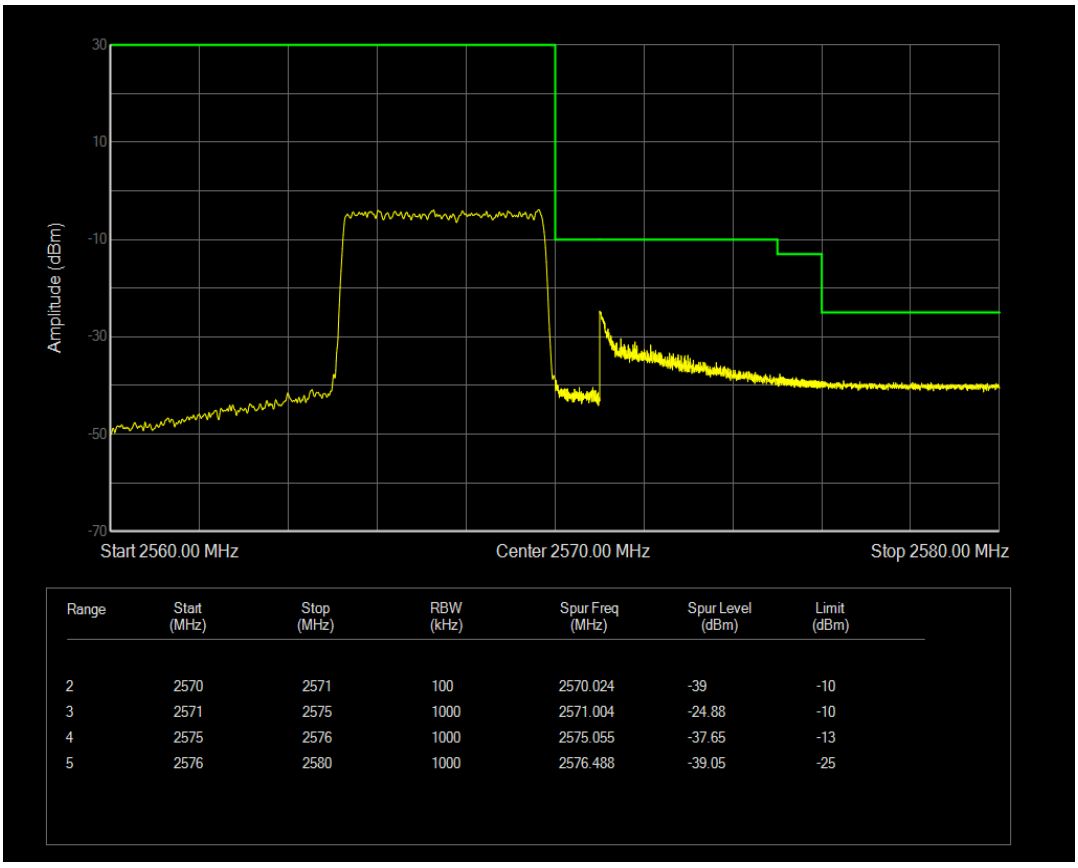
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.048	-48.54	-10
3	2571	2575	1000	2573.664	-38.94	-10
4	2575	2576	1000	2575.012	-39.38	-13
5	2576	2580	1000	2578.92	-39.25	-25

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	2570.001	-27.99	-10
3	2571	2575	1000	2571.004	-12.85	-10
4	2575	2576	1000	2575.408	-39.14	-13
5	2576	2580	1000	2578.712	-39.37	-25

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

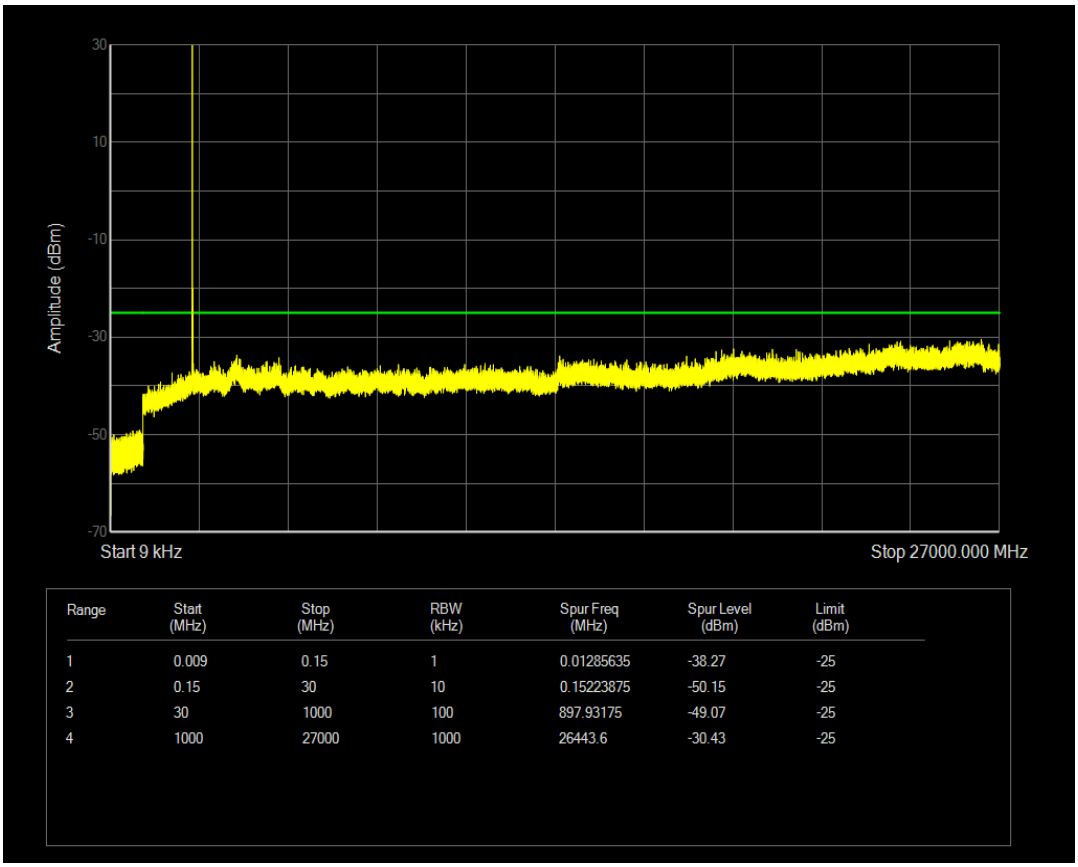


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.024	-39	-10
3	2571	2575	1000	2571.004	-24.88	-10
4	2575	2576	1000	2575.055	-37.65	-13
5	2576	2580	1000	2576.488	-39.05	-25

6 Out-of-band emissions for EN-DC

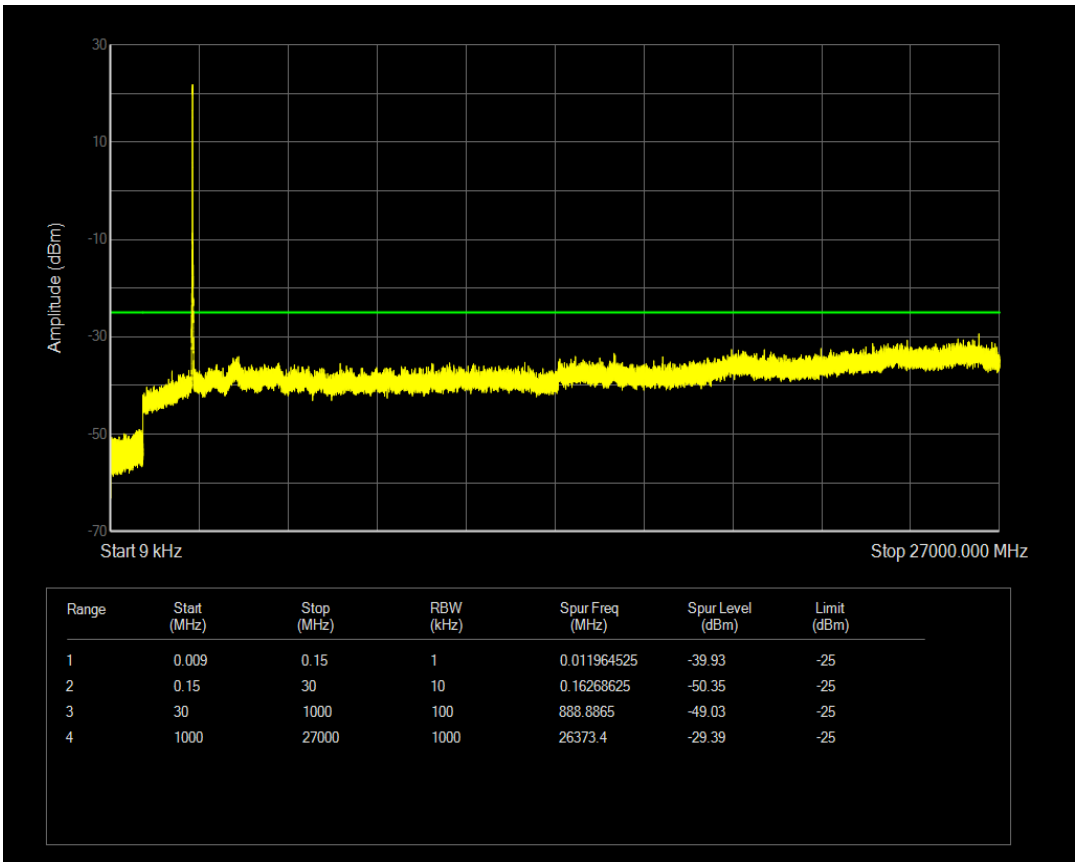
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	25759.80	-29.69	-25	PASS
n7	15	5	500500	1@0	CP_QPSK	26334.40	-29.93	-25	PASS
n7	15	5	500500	1@24	CP_QPSK	25967.80	-29.34	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	25782.55	-29.07	-25	PASS
n7	15	5	513500	1@0	CP_QPSK	5130.75	-28.75	-25	PASS
n7	15	5	513500	1@24	CP_QPSK	5139.20	-30.36	-25	PASS
n7	15	15	501500	79@0	CP_QPSK	26373.40	-29.39	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	26443.60	-30.43	-25	PASS
n7	15	15	501500	1@78	CP_QPSK	26338.30	-29.86	-25	PASS
n7	15	15	512500	79@0	CP_QPSK	26048.40	-30.27	-25	PASS
n7	15	15	512500	1@0	CP_QPSK	25809.85	-28.57	-25	PASS
n7	15	15	512500	1@78	CP_QPSK	5139.20	-29.53	-25	PASS
n7	15	20	502000	106@0	CP_QPSK	26218.05	-29.81	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	26468.30	-29.66	-25	PASS
n7	15	20	502000	1@105	CP_QPSK	26479.35	-29.82	-25	PASS
n7	15	20	512000	106@0	CP_QPSK	25768.25	-30.33	-25	PASS
n7	15	20	512000	1@0	CP_QPSK	25796.20	-29.92	-25	PASS
n7	15	20	512000	1@105	CP_QPSK	26016.55	-30.50	-25	PASS

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



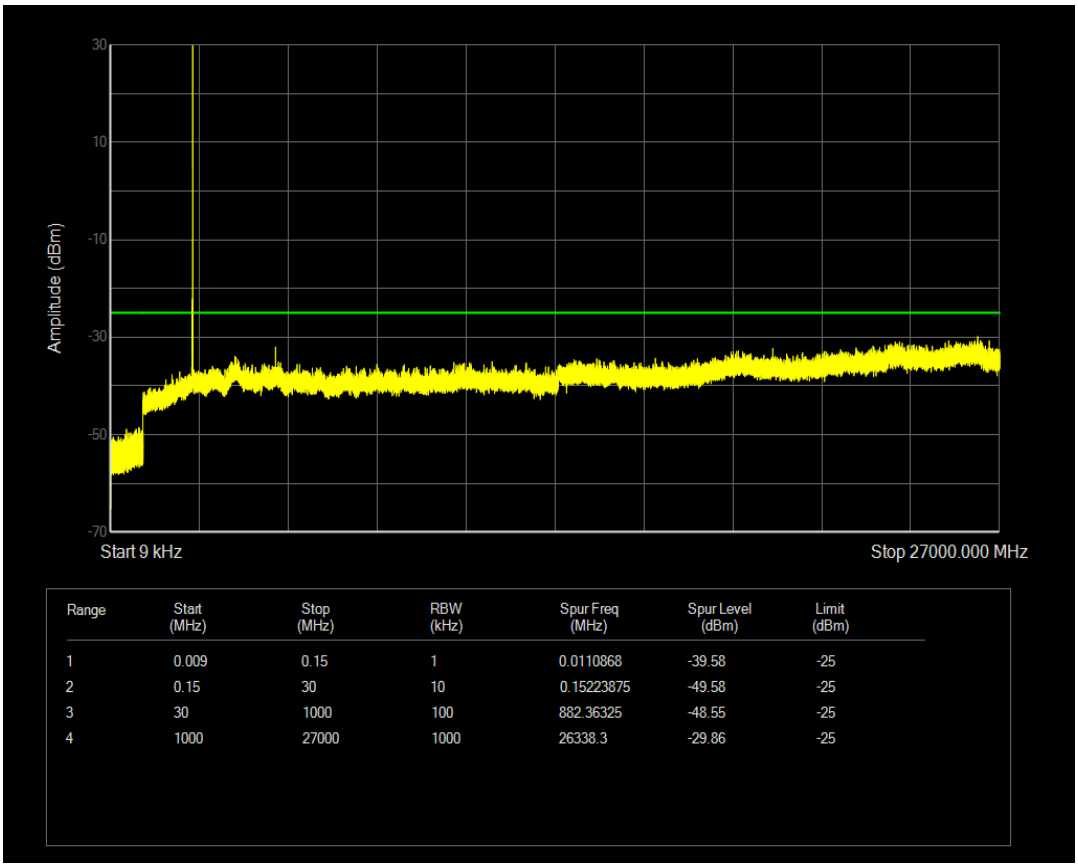
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01285635	-38.27	-25
2	0.15	30	10	0.15223875	-50.15	-25
3	30	1000	100	897.93175	-49.07	-25
4	1000	27000	1000	26443.6	-30.43	-25

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



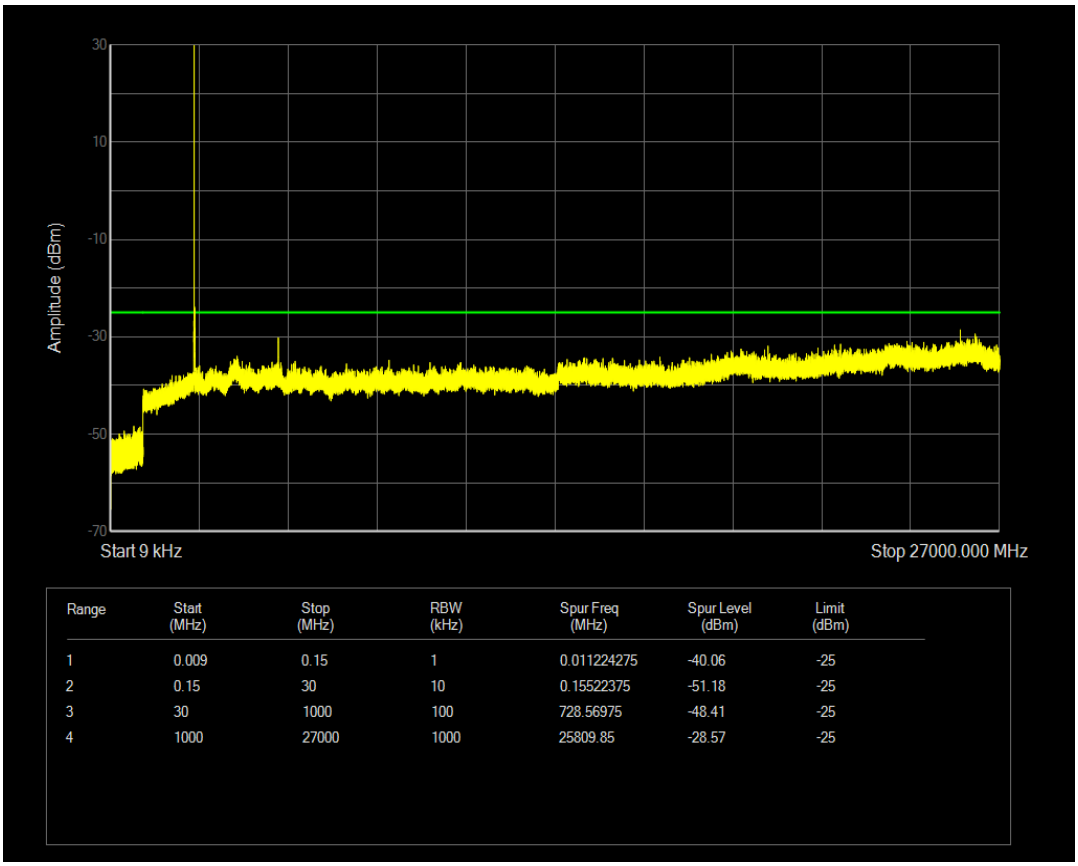
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011964525	-39.93	-25
2	0.15	30	10	0.16268625	-50.35	-25
3	30	1000	100	888.8865	-49.03	-25
4	1000	27000	1000	26373.4	-29.39	-25

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



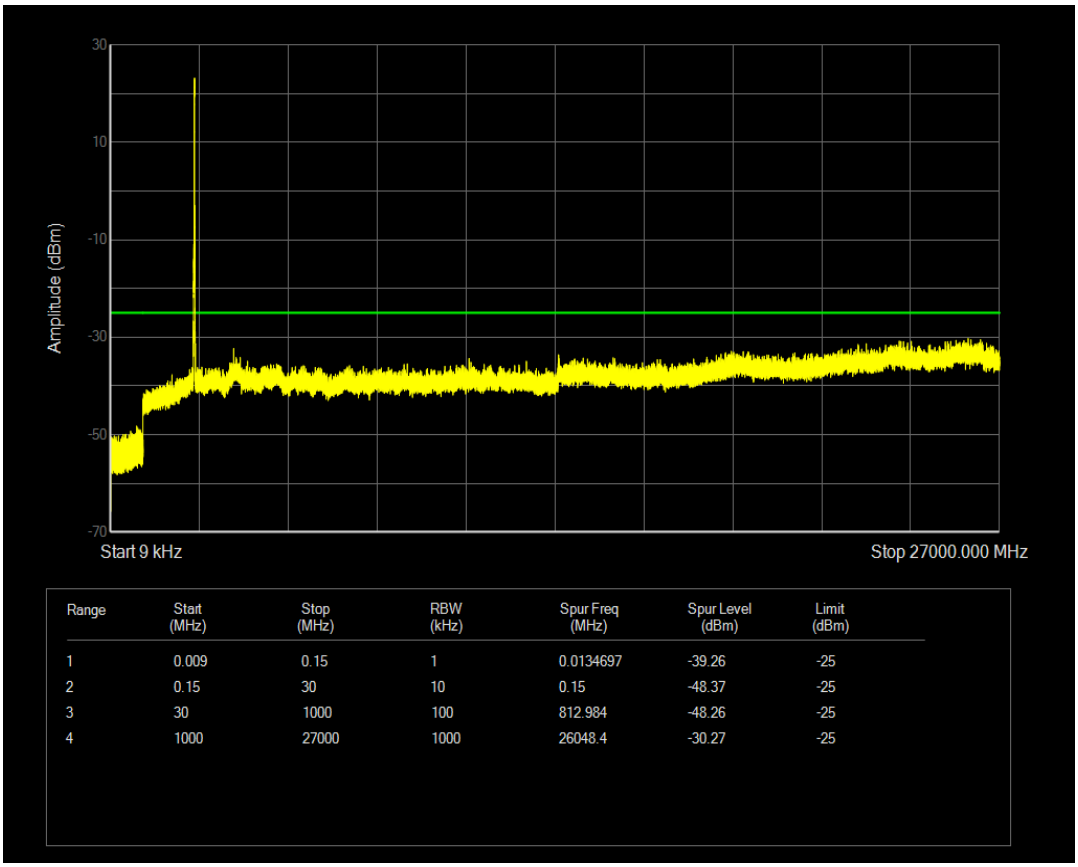
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0110868	-39.58	-25
2	0.15	30	10	0.15223875	-49.58	-25
3	30	1000	100	882.36325	-48.55	-25
4	1000	27000	1000	26338.3	-29.86	-25

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



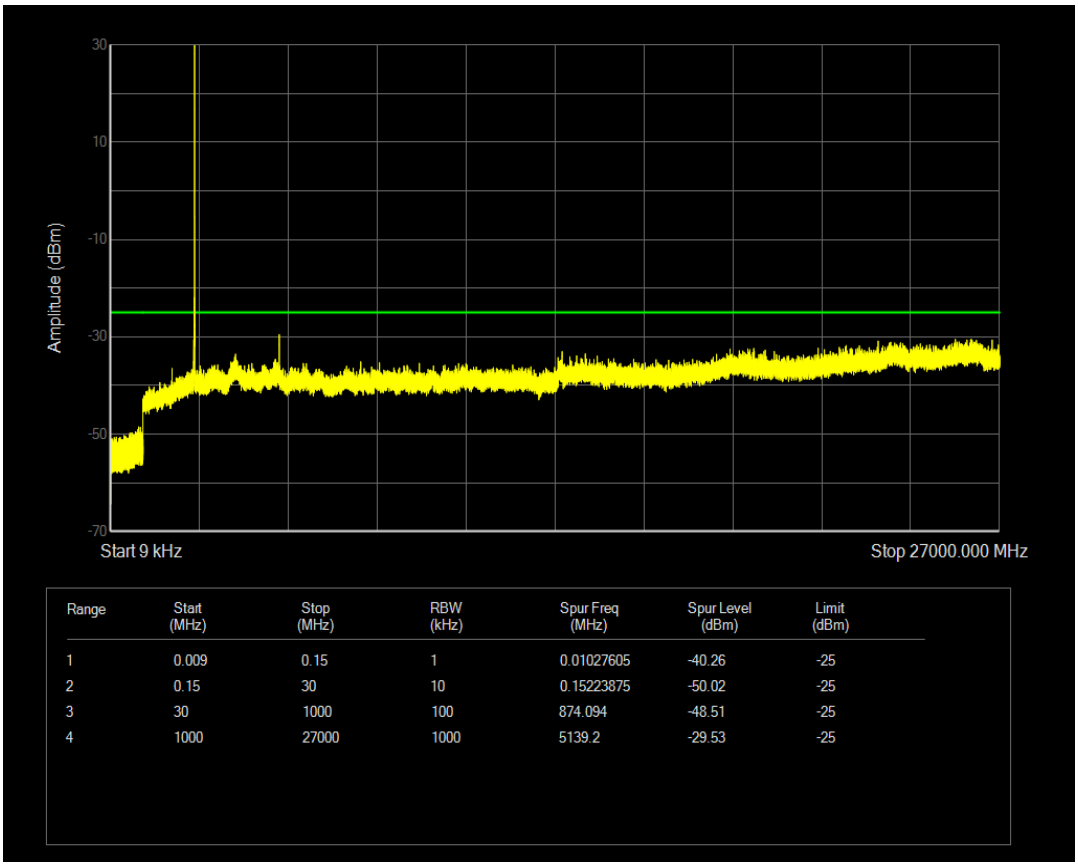
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011224275	-40.06	-25
2	0.15	30	10	0.15522375	-51.18	-25
3	30	1000	100	728.56975	-48.41	-25
4	1000	27000	1000	25809.85	-28.57	-25

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



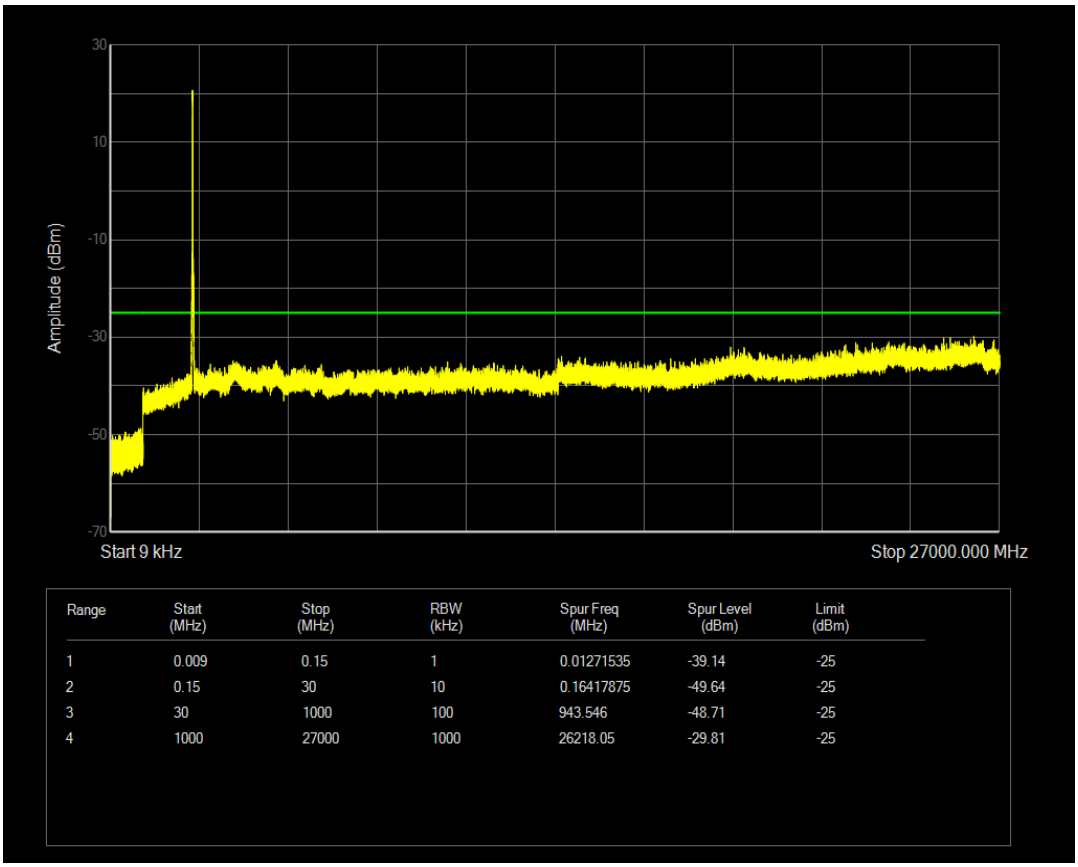
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0134697	-39.26	-25
2	0.15	30	10	0.15	-48.37	-25
3	30	1000	100	812.984	-48.26	-25
4	1000	27000	1000	26048.4	-30.27	-25

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



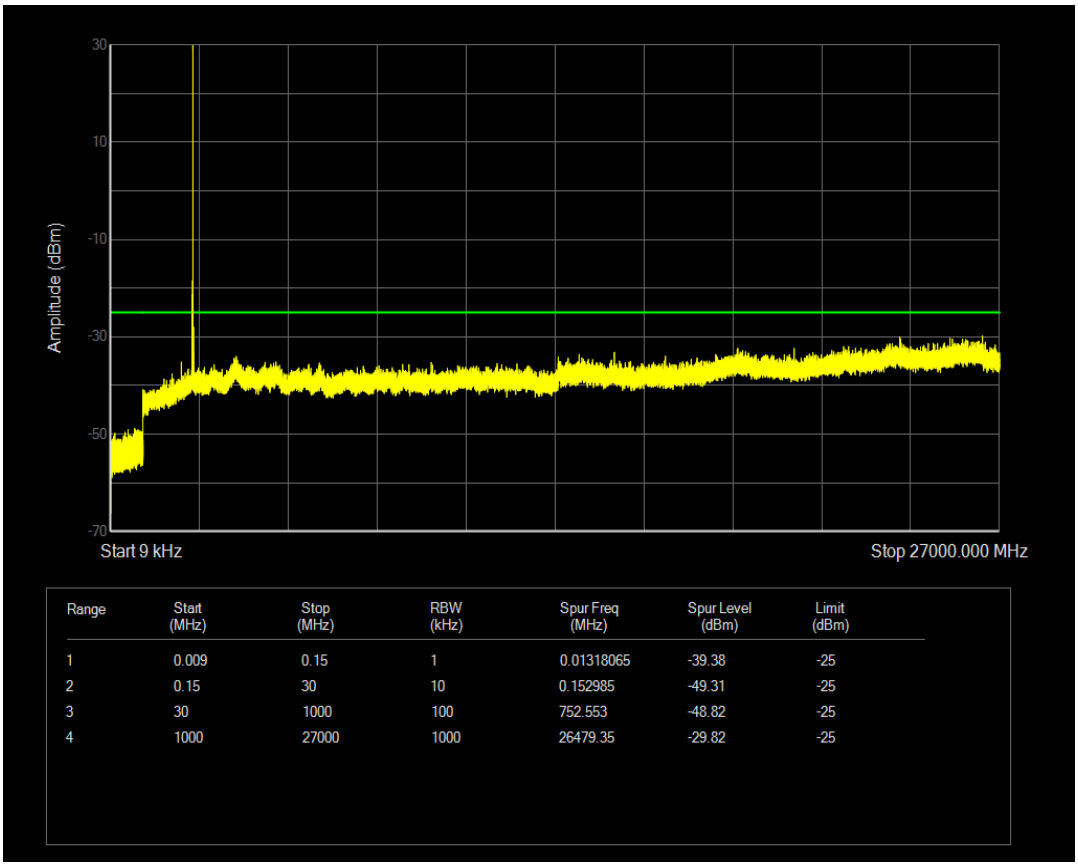
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01027605	-40.26	-25
2	0.15	30	10	0.15223875	-50.02	-25
3	30	1000	100	874.094	-48.51	-25
4	1000	27000	1000	5139.2	-29.53	-25

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



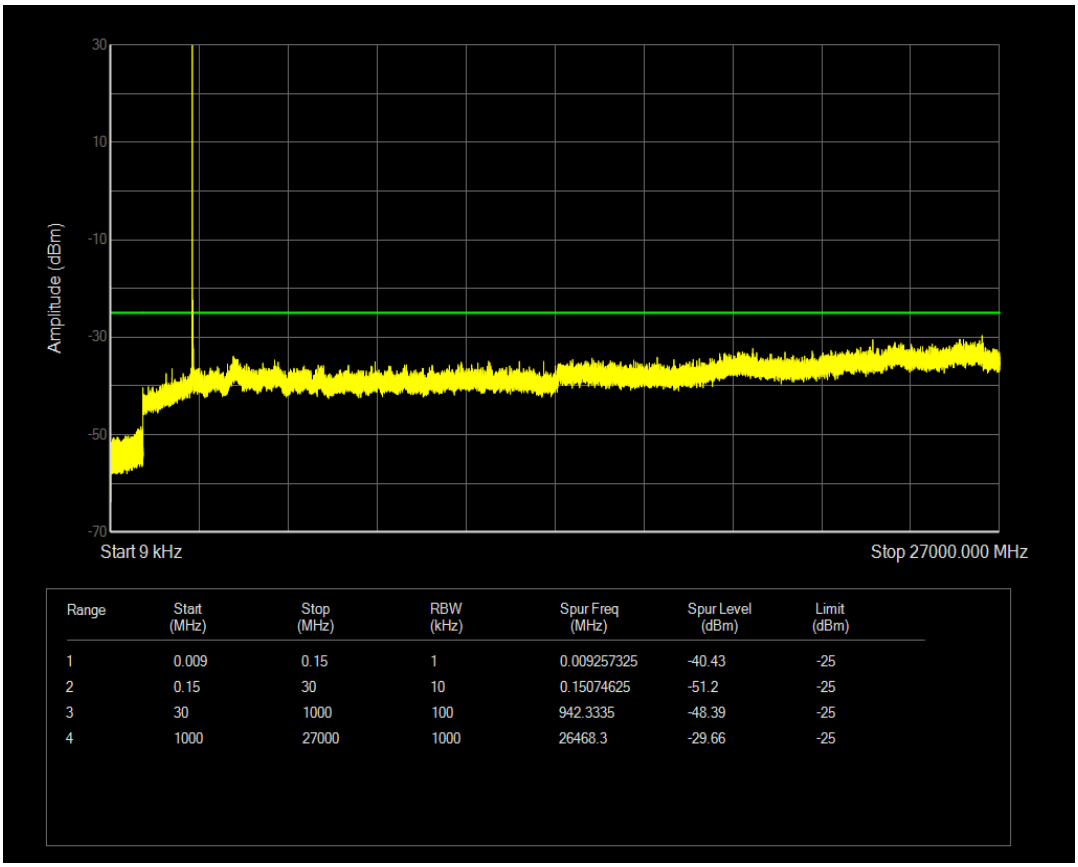
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01271535	-39.14	-25
2	0.15	30	10	0.16417875	-49.64	-25
3	30	1000	100	943.546	-48.71	-25
4	1000	27000	1000	26218.05	-29.81	-25

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



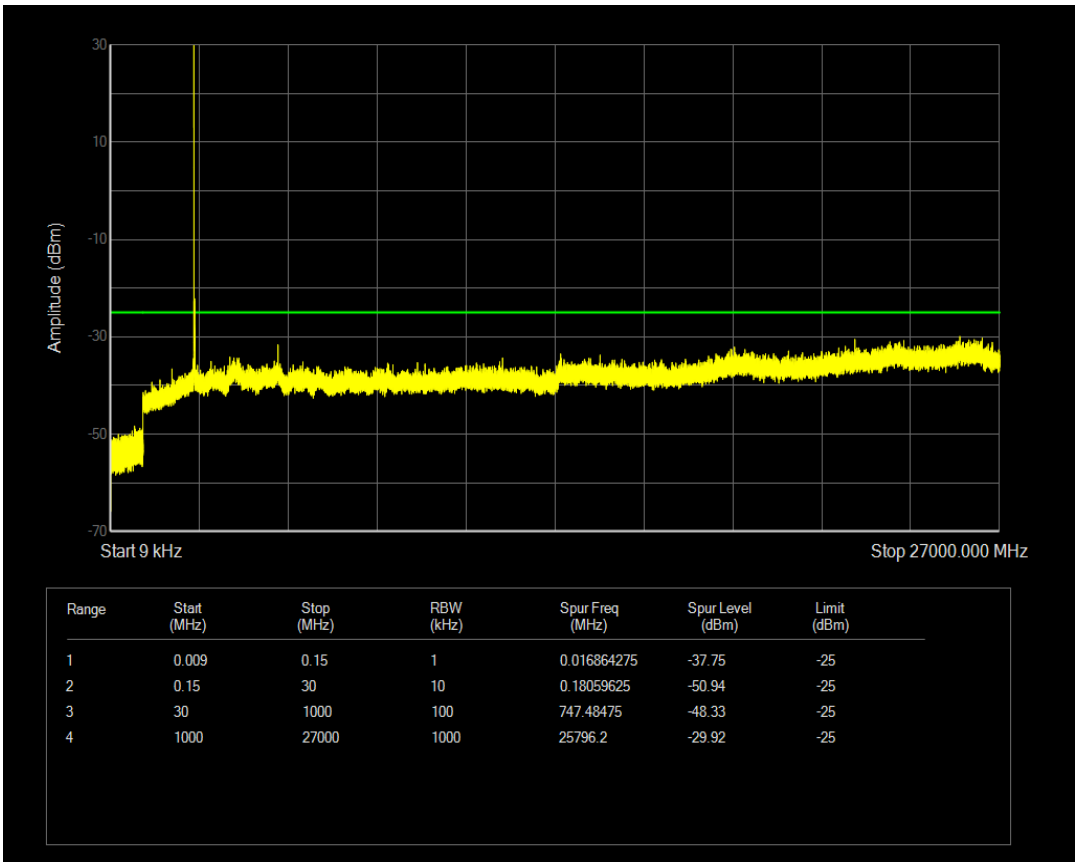
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01318065	-39.38	-25
2	0.15	30	10	0.152985	-49.31	-25
3	30	1000	100	752.553	-48.82	-25
4	1000	27000	1000	26479.35	-29.82	-25

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



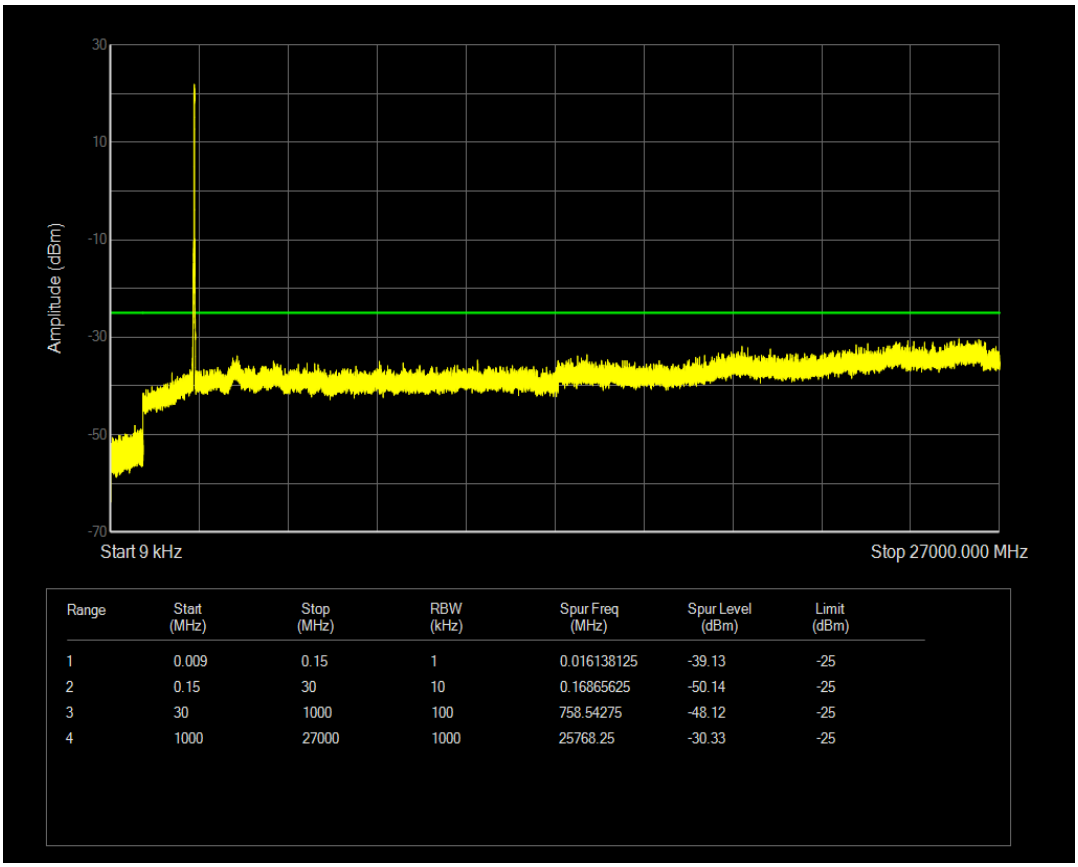
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009257325	-40.43	-25
2	0.15	30	10	0.15074625	-51.2	-25
3	30	1000	100	942.3335	-48.39	-25
4	1000	27000	1000	26468.3	-29.66	-25

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



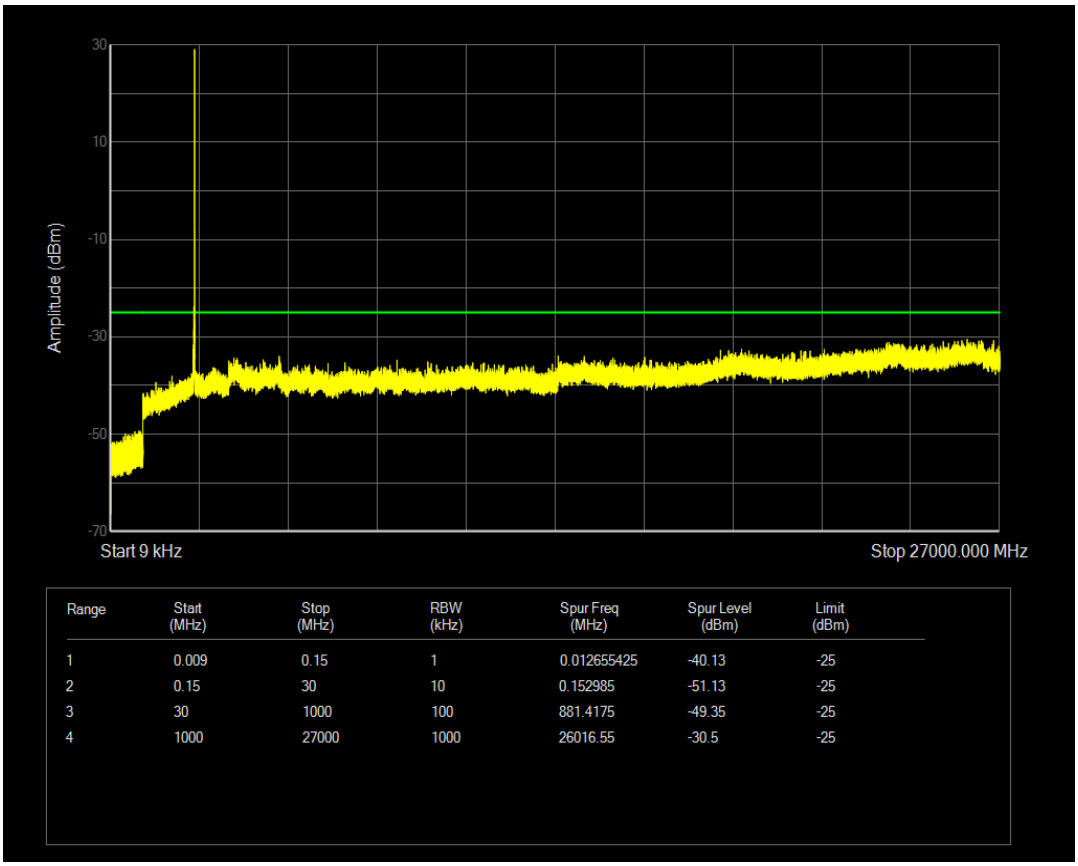
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.016864275	-37.75	-25
2	0.15	30	10	0.18059625	-50.94	-25
3	30	1000	100	747.48475	-48.33	-25
4	1000	27000	1000	25796.2	-29.92	-25

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



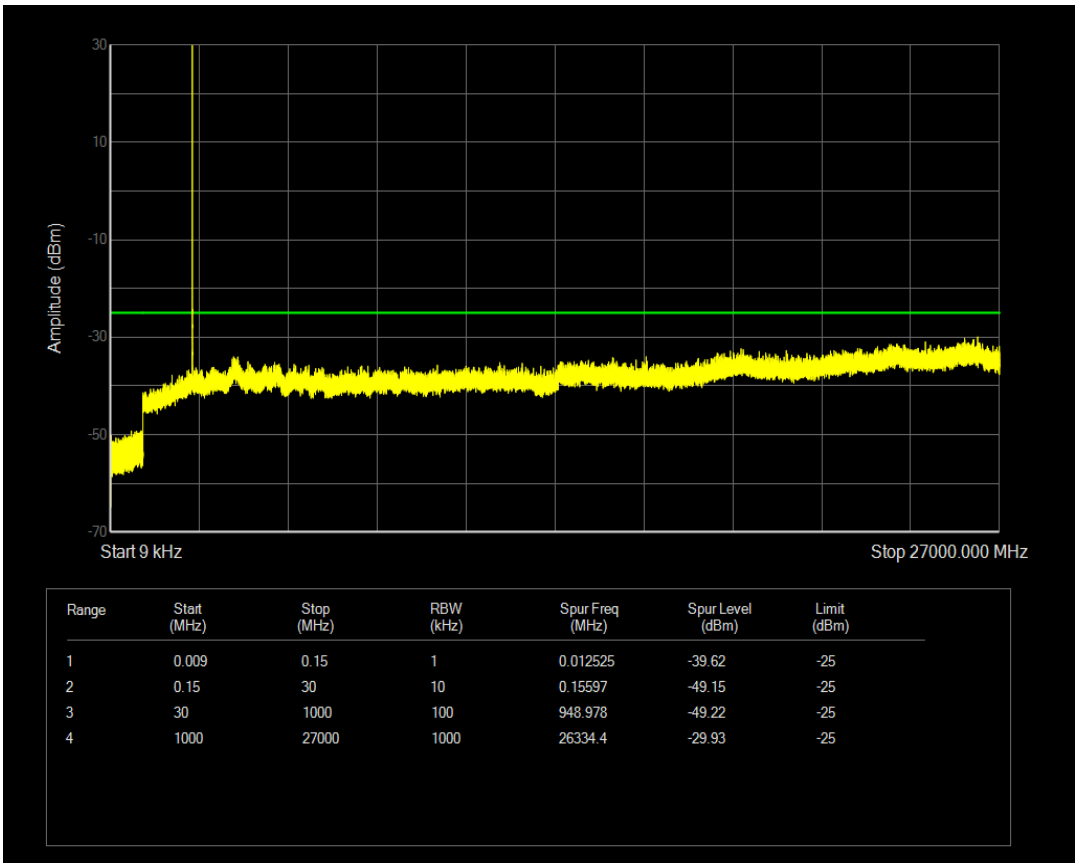
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.016138125	-39.13	-25
2	0.15	30	10	0.16865625	-50.14	-25
3	30	1000	100	758.54275	-48.12	-25
4	1000	27000	1000	25768.25	-30.33	-25

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



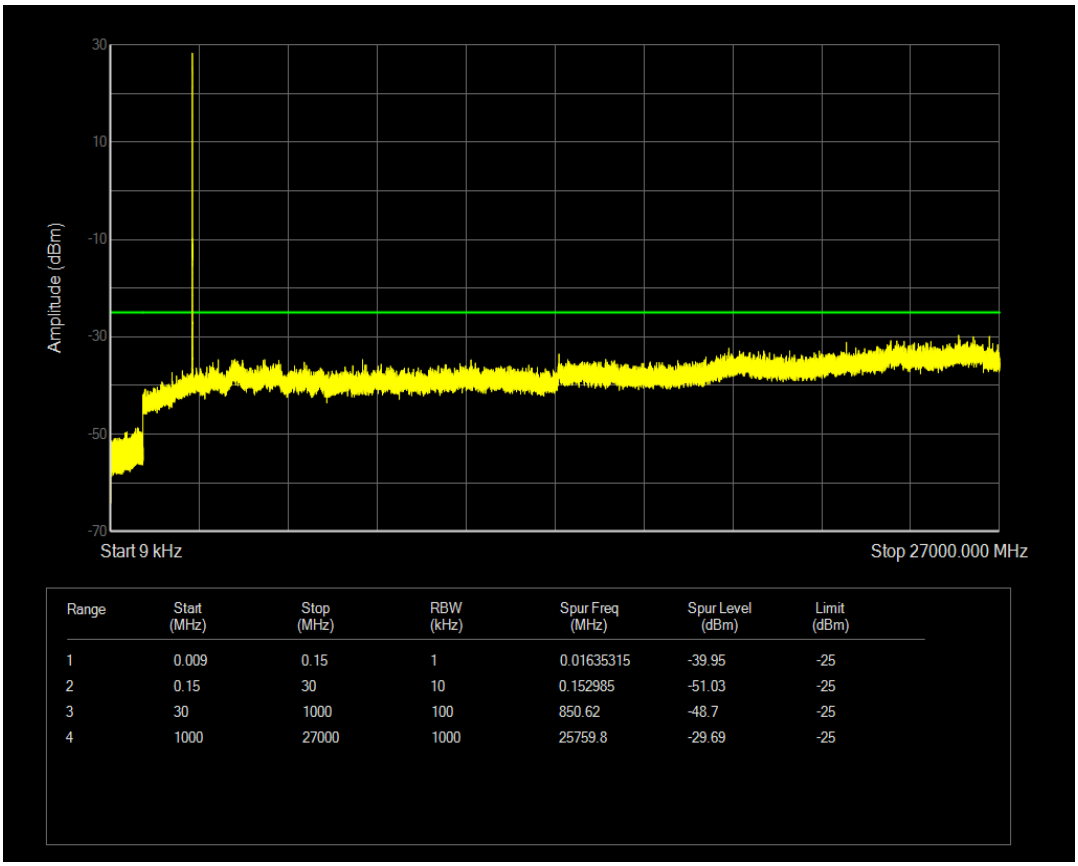
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012655425	-40.13	-25
2	0.15	30	10	0.152985	-51.13	-25
3	30	1000	100	881.4175	-49.35	-25
4	1000	27000	1000	26016.55	-30.5	-25

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



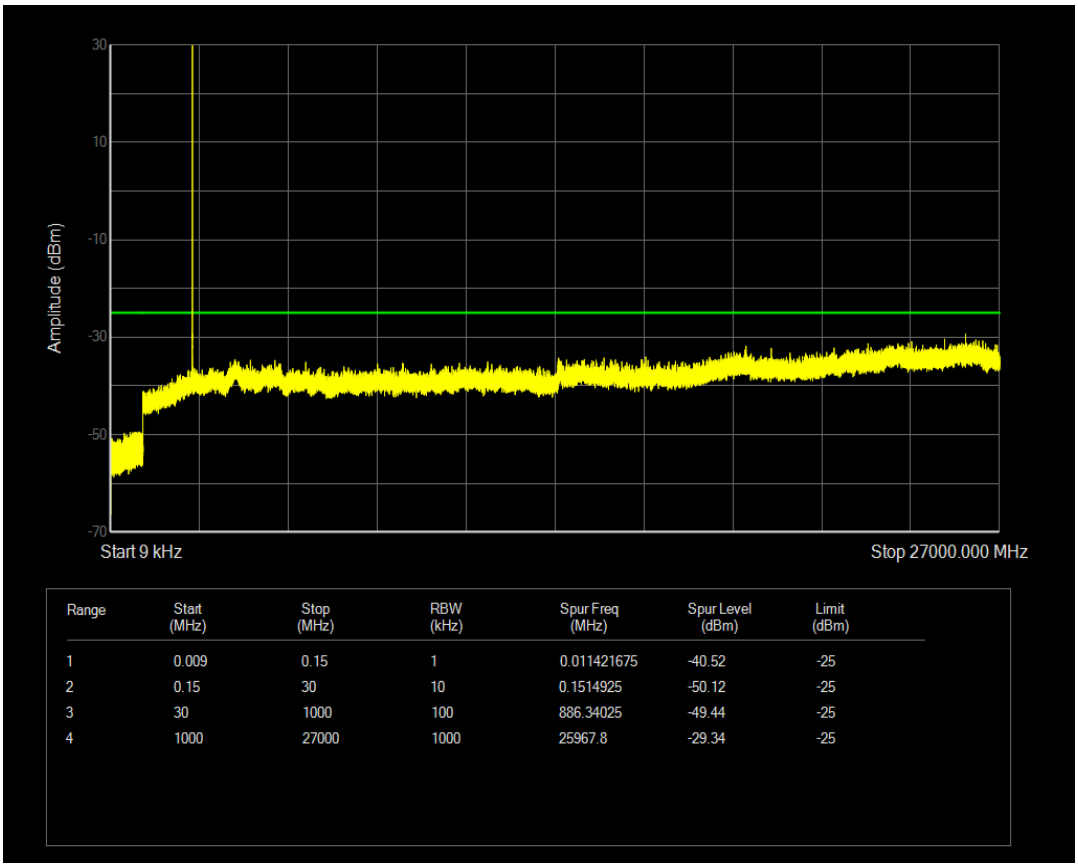
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012525	-39.62	-25
2	0.15	30	10	0.15597	-49.15	-25
3	30	1000	100	948.978	-49.22	-25
4	1000	27000	1000	26334.4	-29.93	-25

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



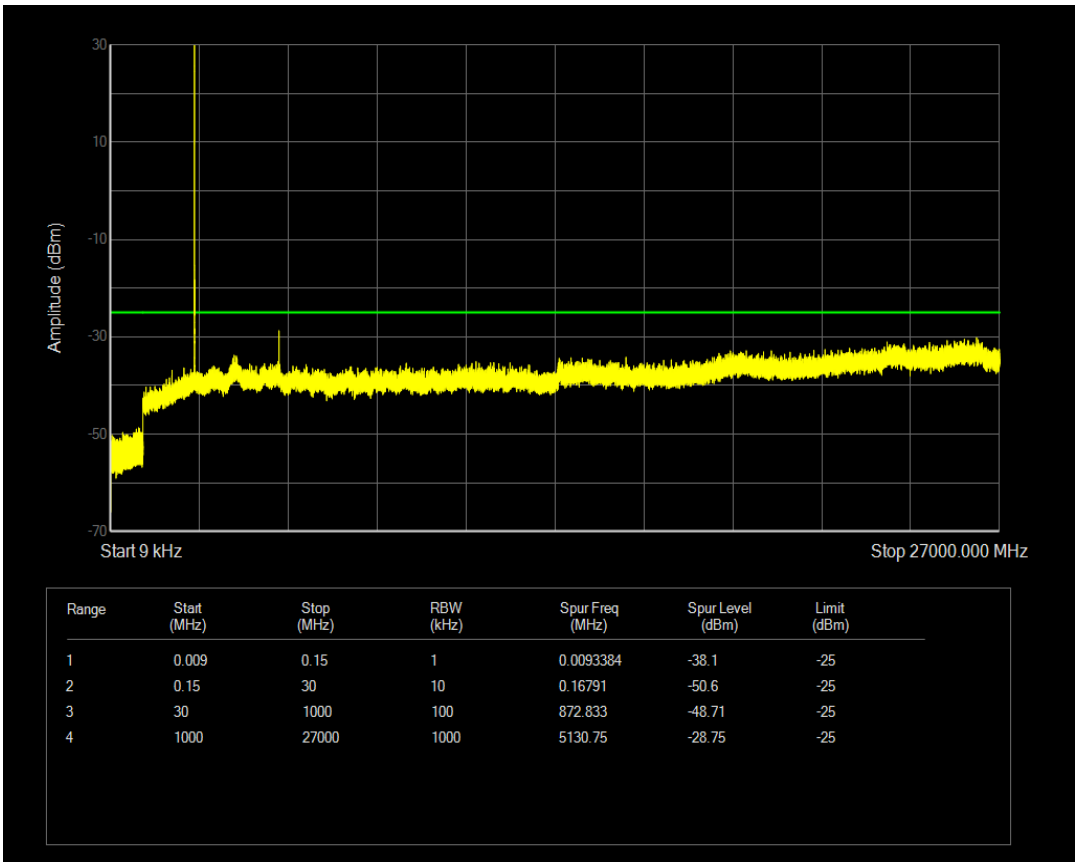
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01635315	-39.95	-25
2	0.15	30	10	0.152985	-51.03	-25
3	30	1000	100	850.62	-48.7	-25
4	1000	27000	1000	25759.8	-29.69	-25

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



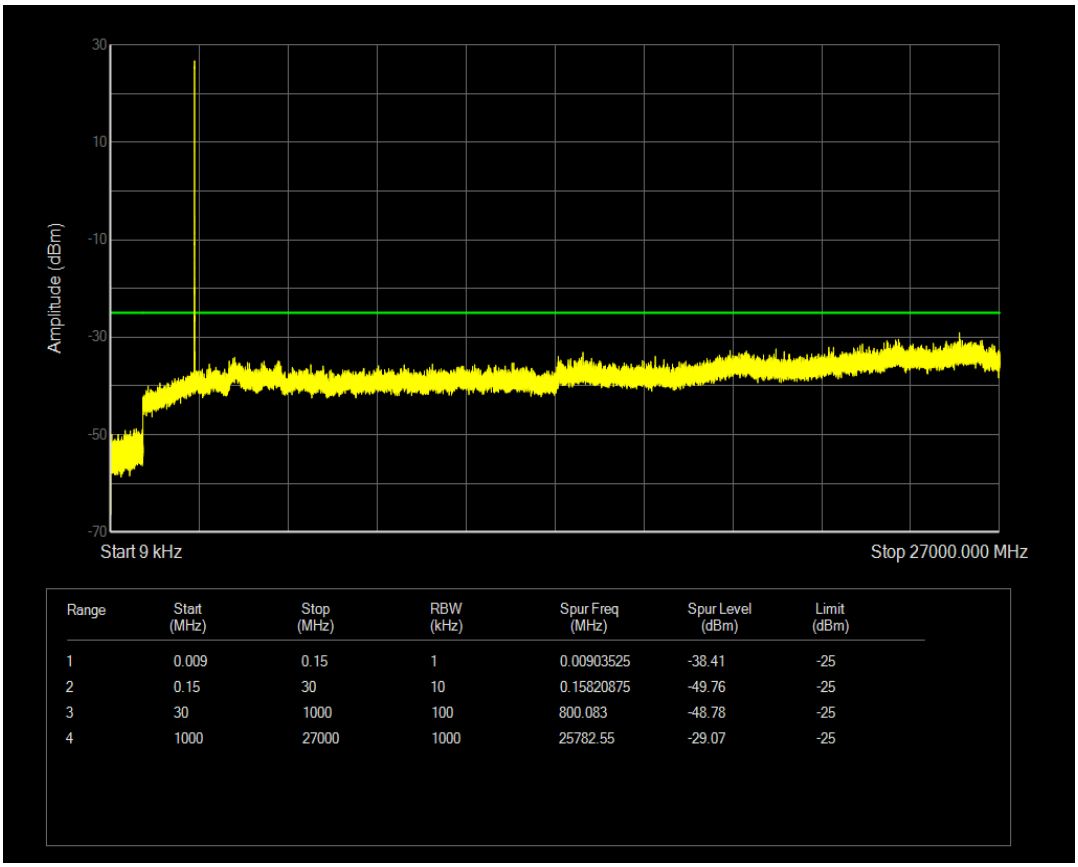
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011421675	-40.52	-25
2	0.15	30	10	0.1514925	-50.12	-25
3	30	1000	100	886.34025	-49.44	-25
4	1000	27000	1000	25967.8	-29.34	-25

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



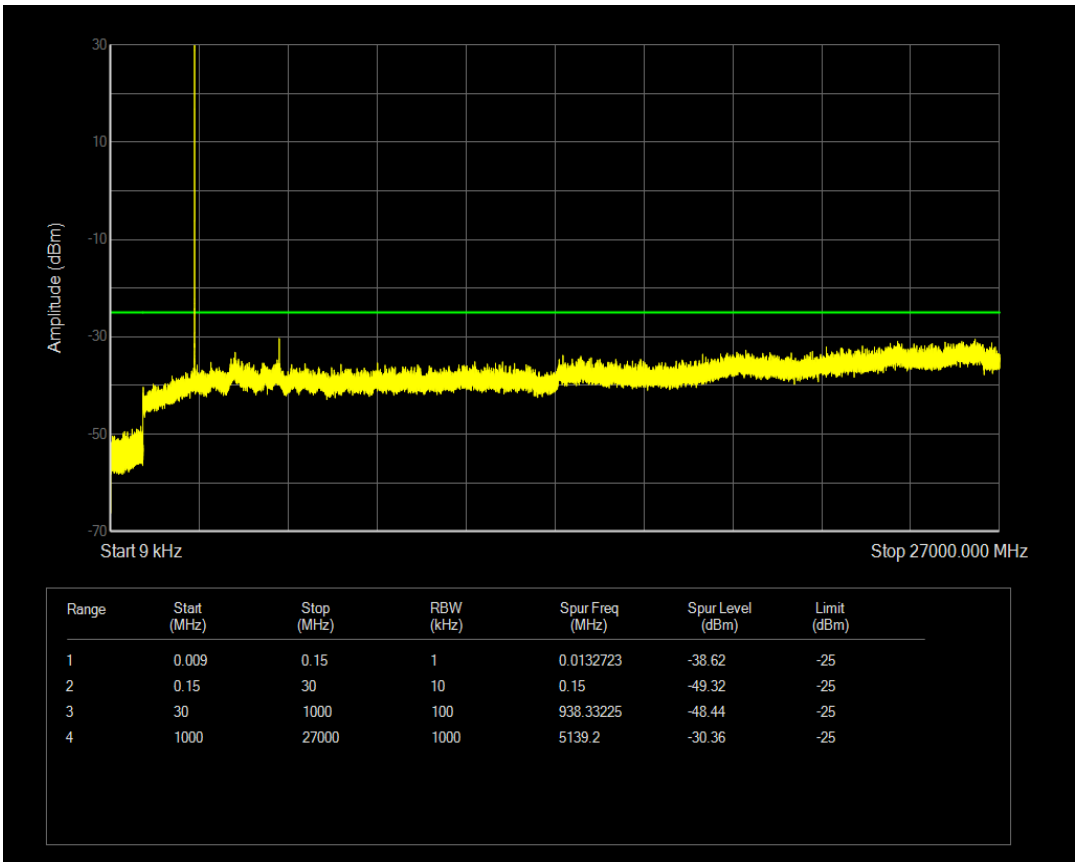
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093384	-38.1	-25
2	0.15	30	10	0.16791	-50.6	-25
3	30	1000	100	872.833	-48.71	-25
4	1000	27000	1000	5130.75	-28.75	-25

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)
1	0.009	0.15	1	0.00903525	-38.41	-25
2	0.15	30	10	0.15820875	-49.76	-25
3	30	1000	100	800.083	-48.78	-25
4	1000	27000	1000	25782.55	-29.07	-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	0.0132723	-38.62	-25
2	0.15	30	10	0.15	-49.32	-25
3	30	1000	100	938.33225	-48.44	-25
4	1000	27000	1000	5139.2	-30.36	-25