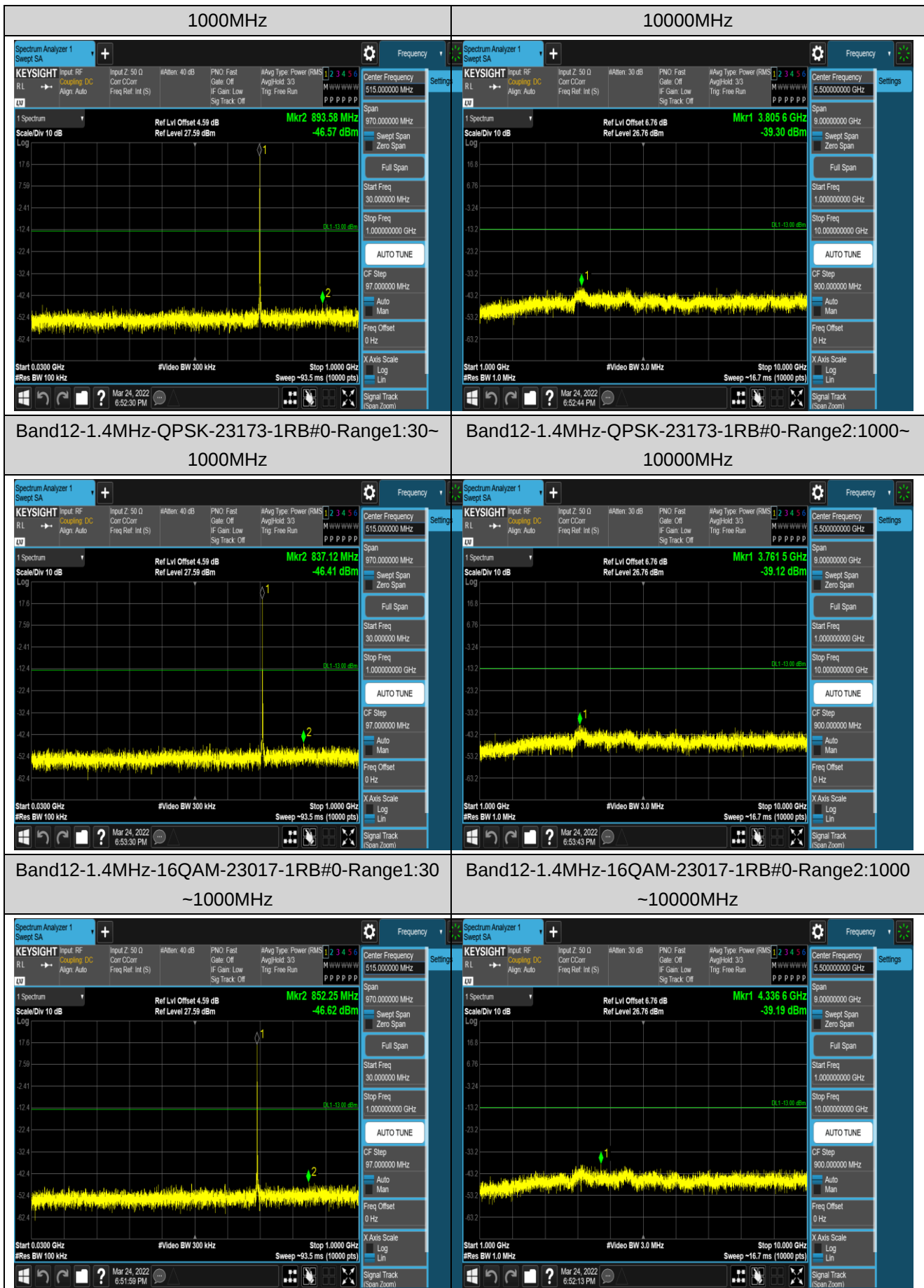
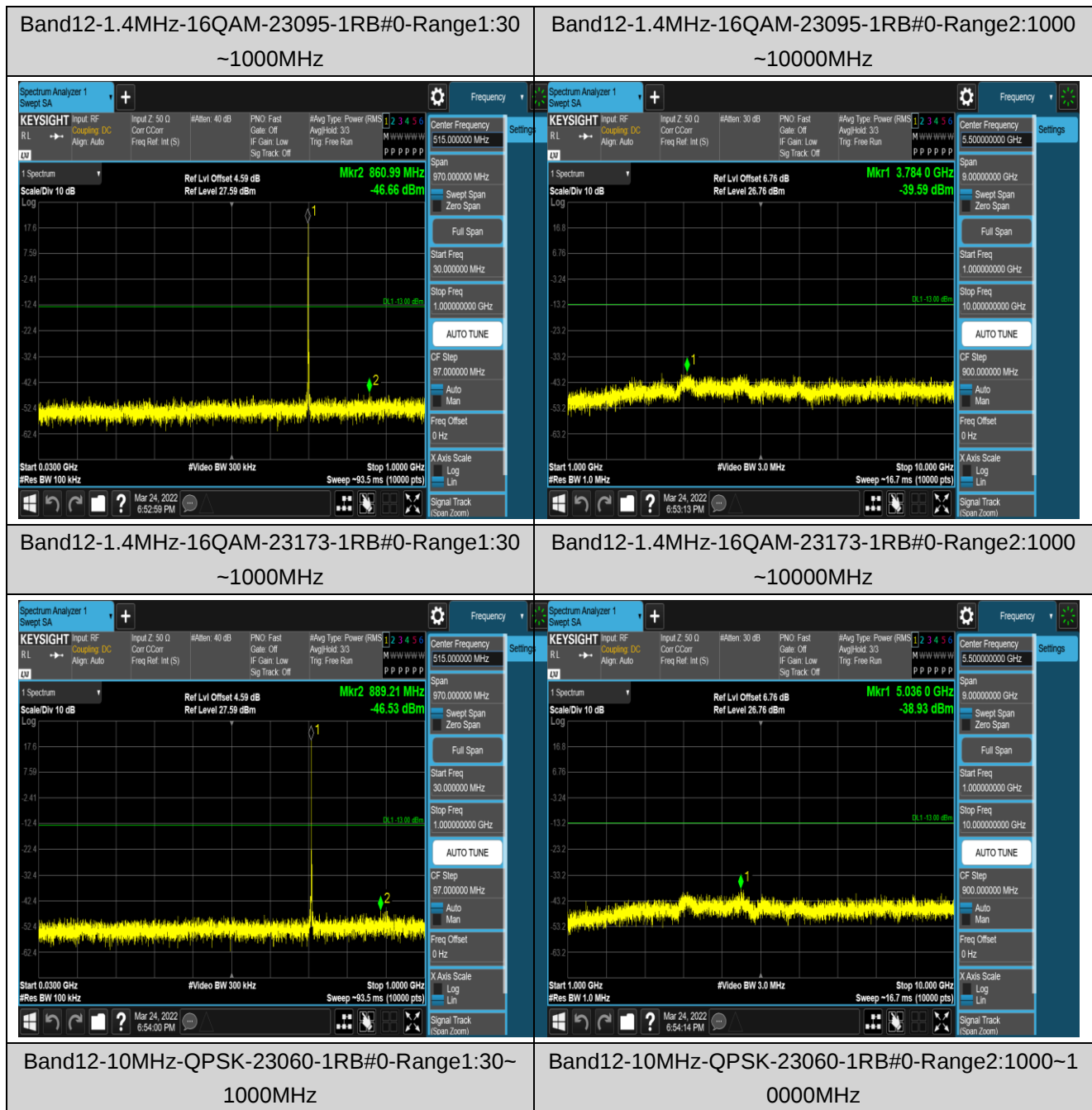
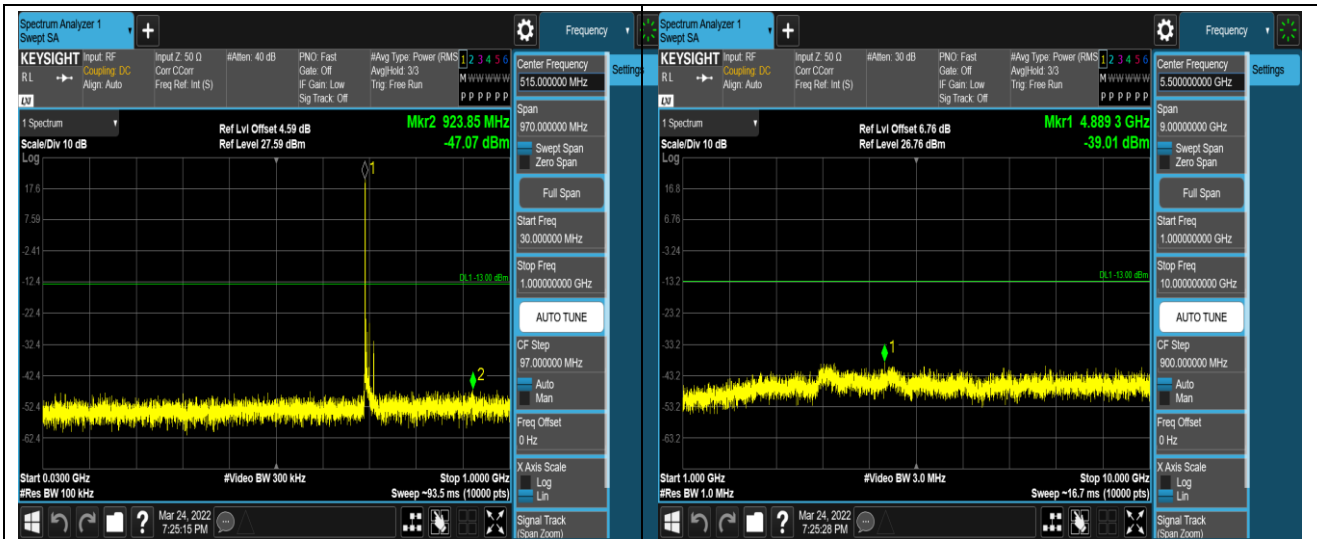


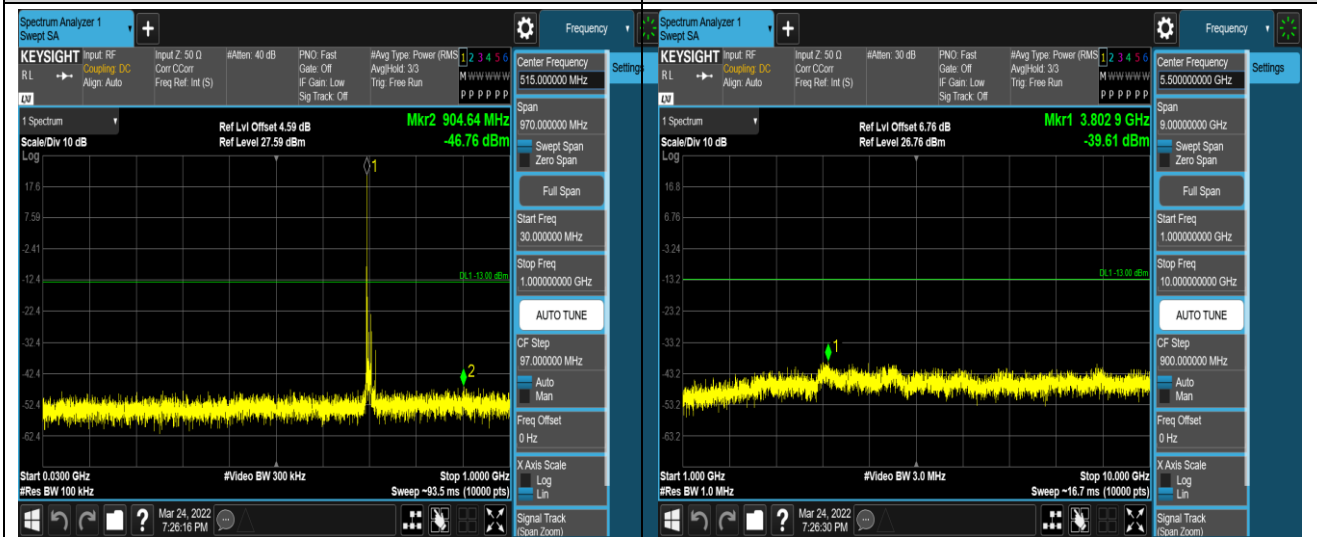






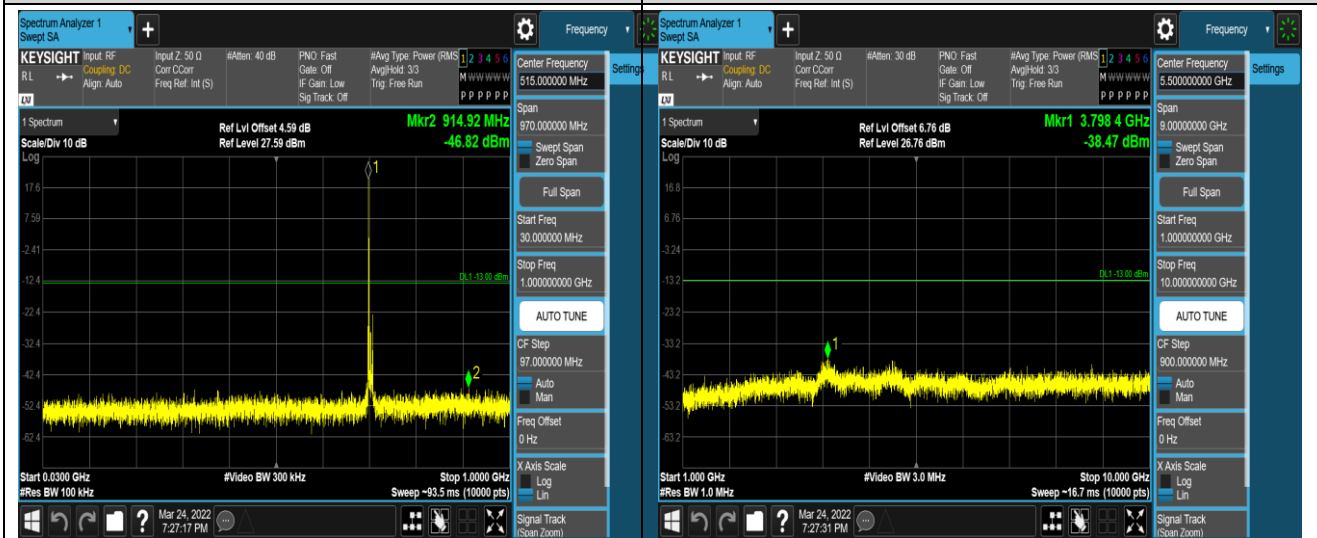
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz

Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



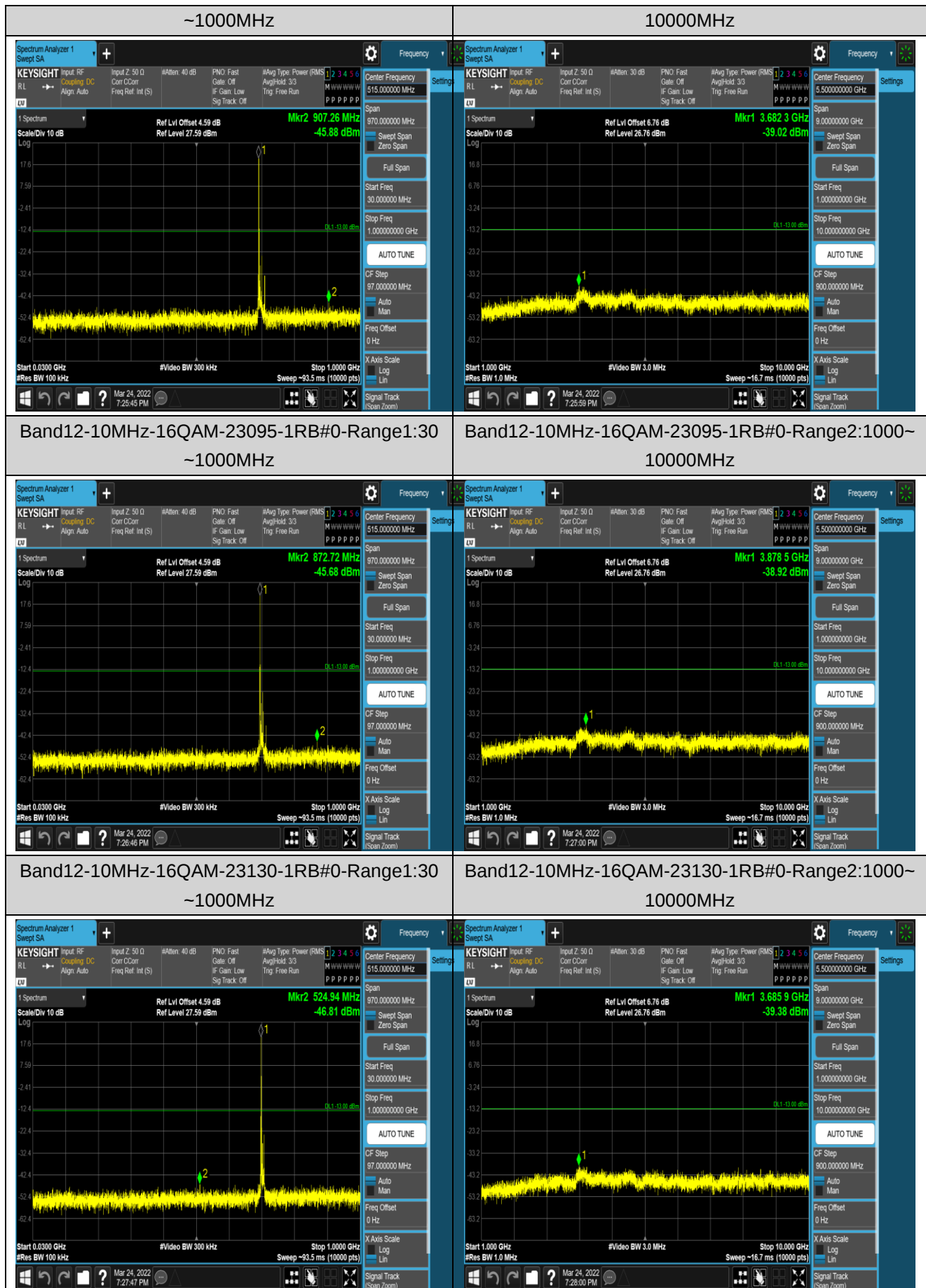
Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz

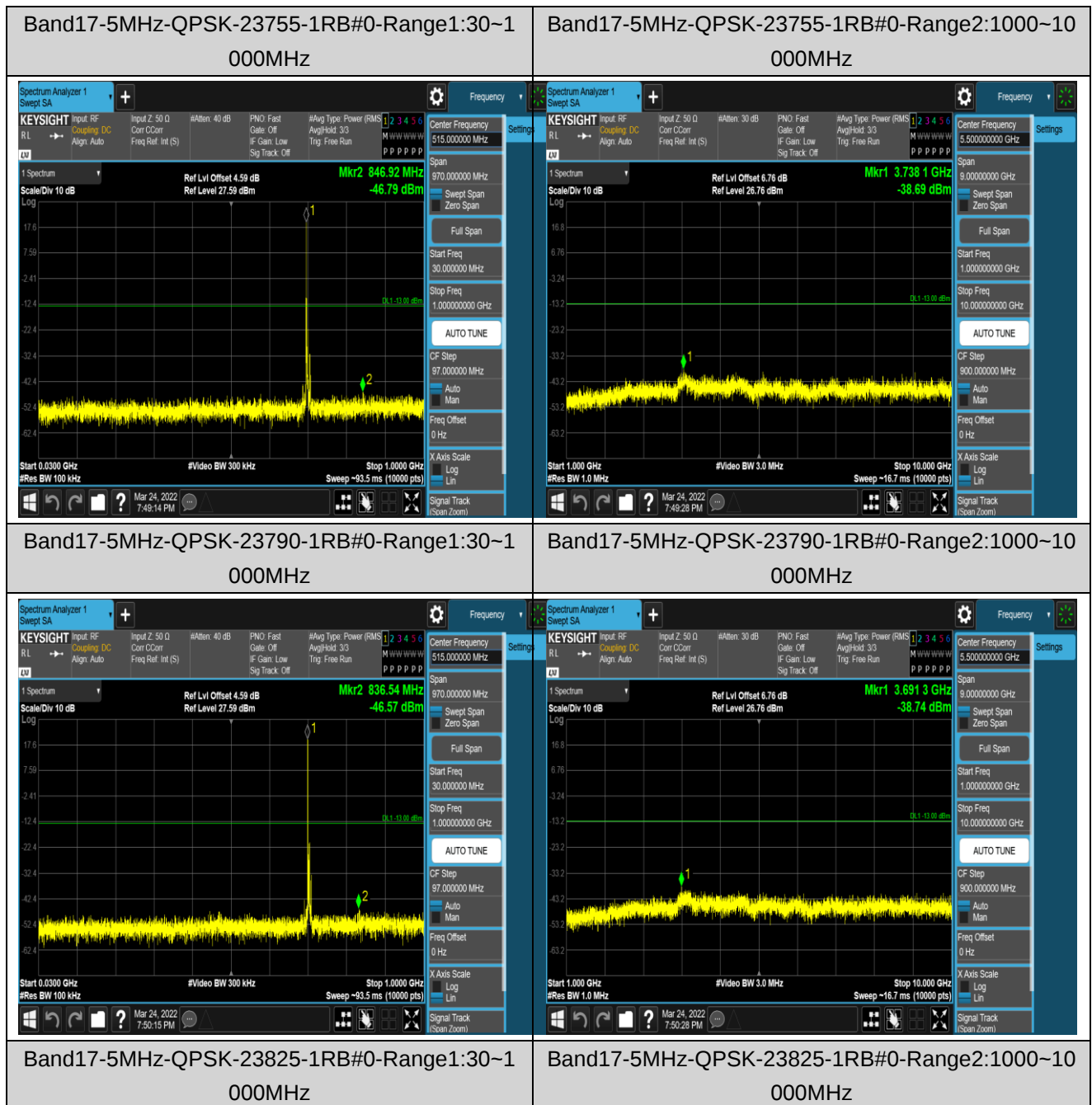
Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz

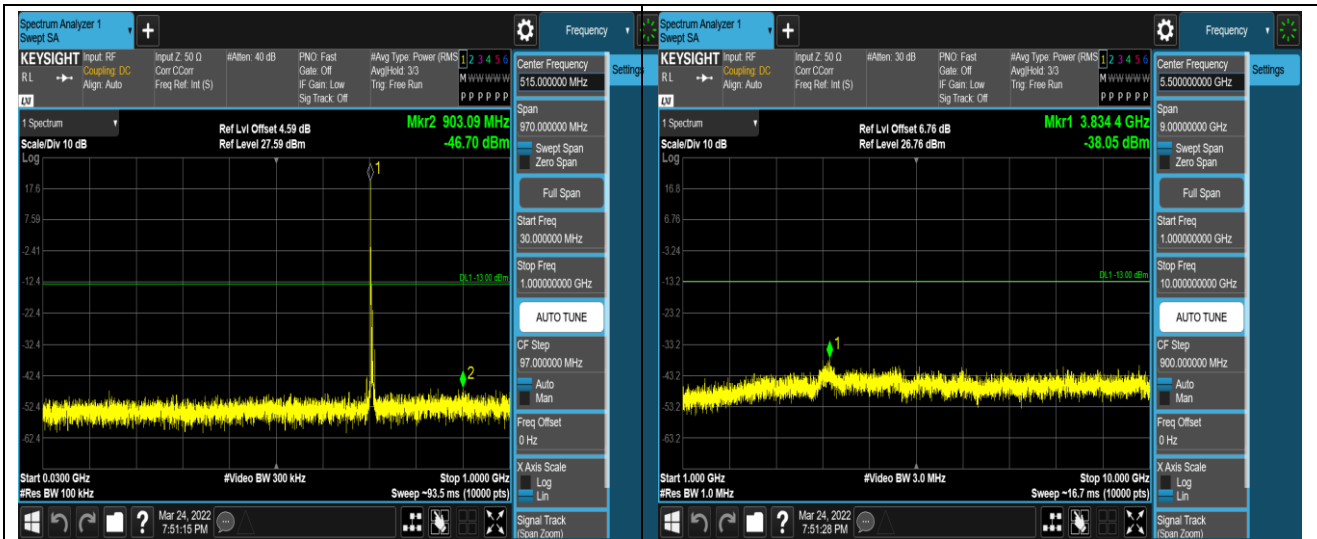


Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz

Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz

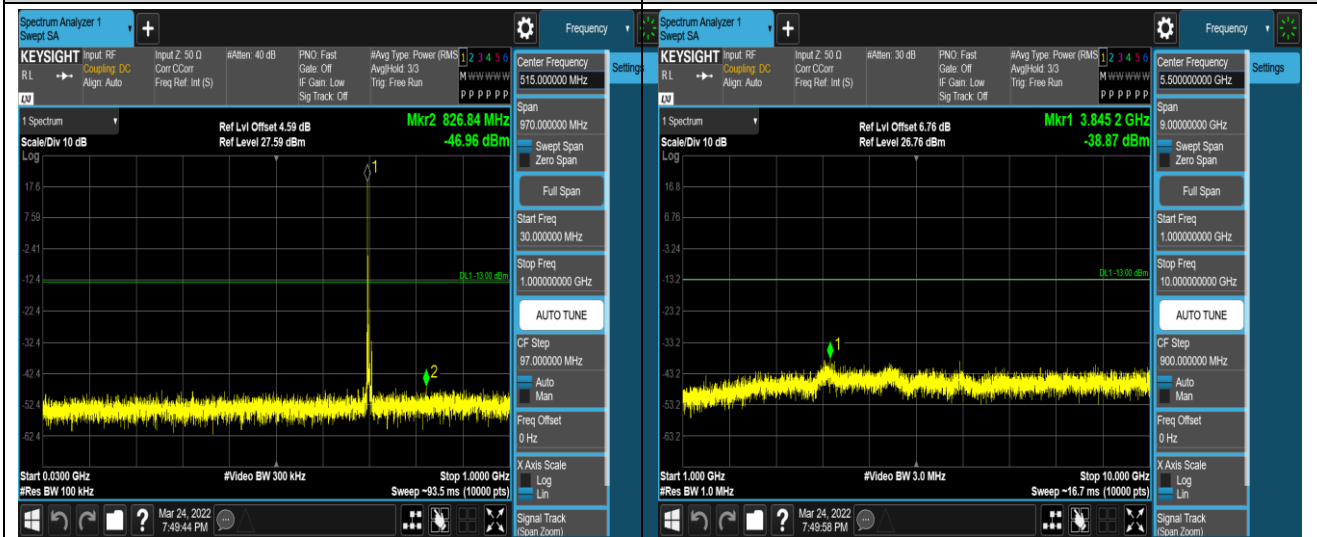






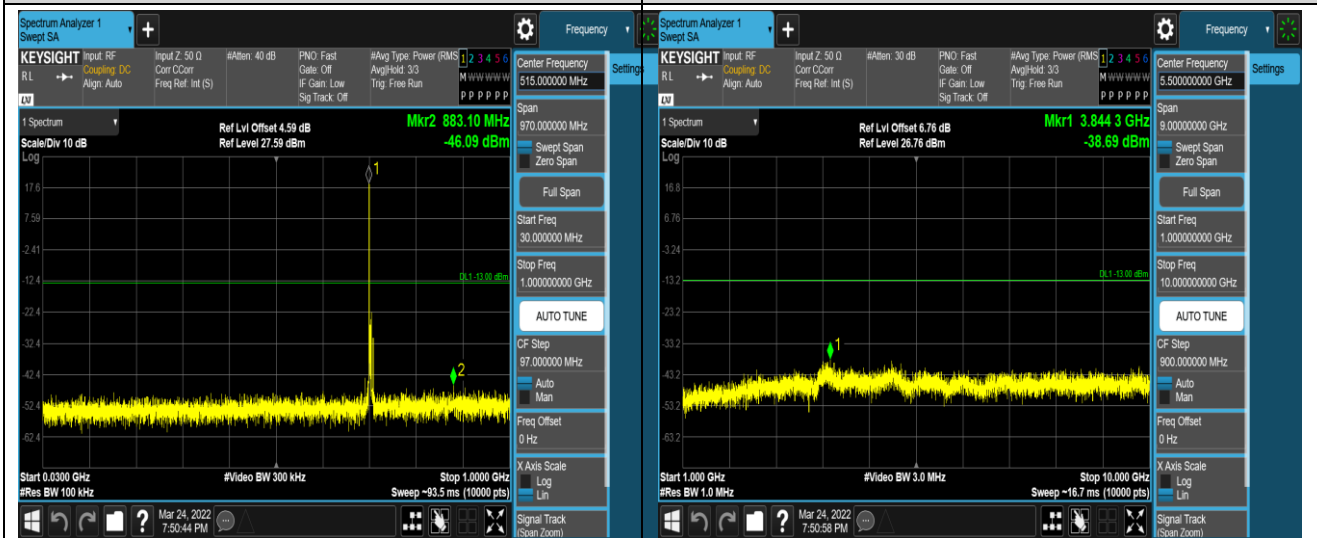
Band17-5MHz-16QAM-23755-1RB#0-Range1:30~1000MHz

Band17-5MHz-16QAM-23755-1RB#0-Range2:1000~10000MHz



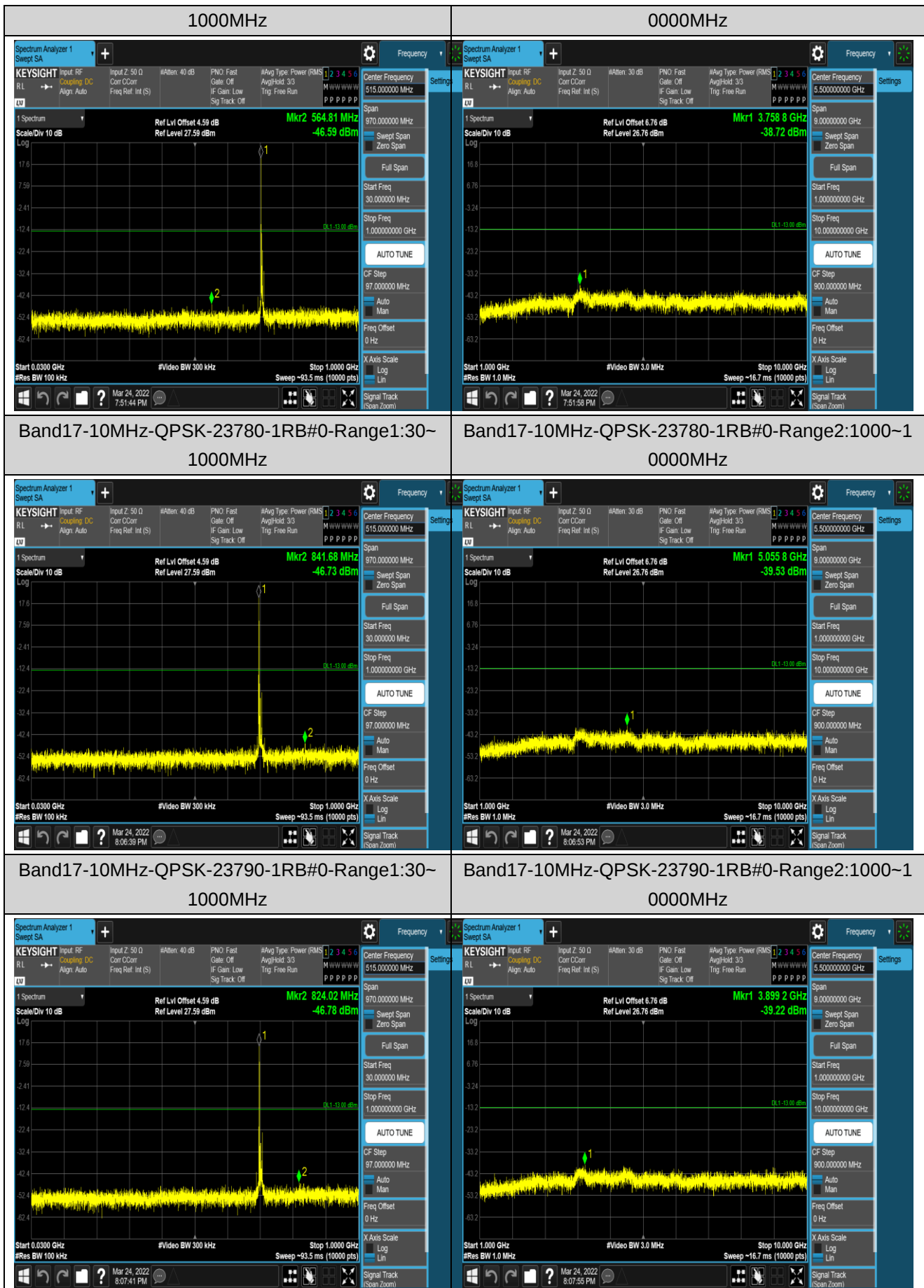
Band17-5MHz-16QAM-23790-1RB#0-Range1:30~1000MHz

Band17-5MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz

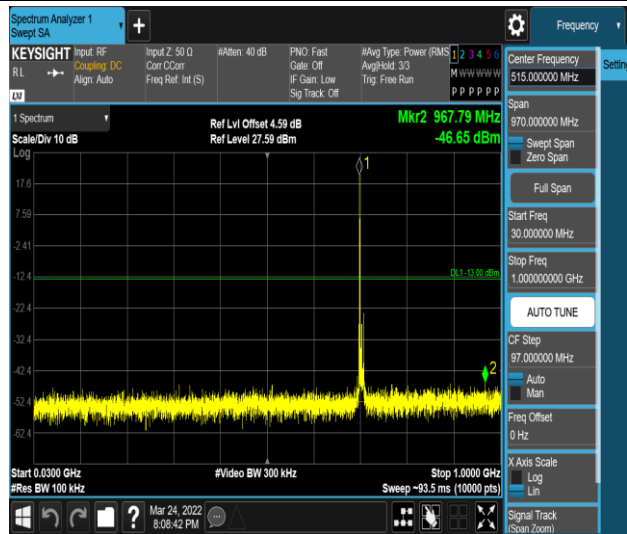


Band17-5MHz-16QAM-23825-1RB#0-Range1:30~1000MHz

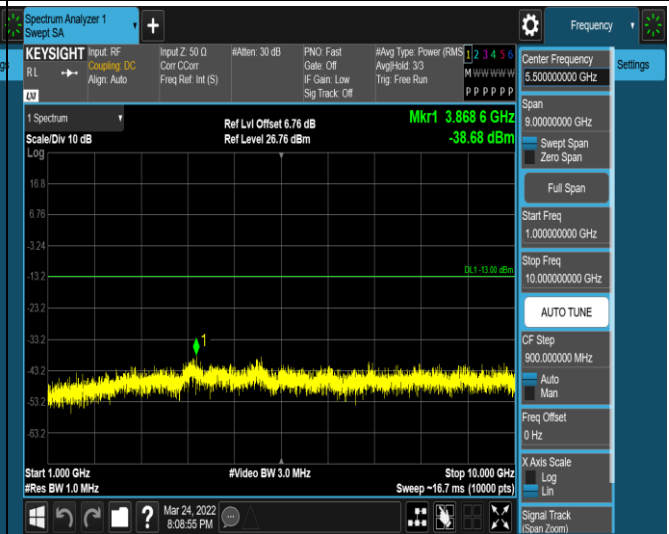
Band17-5MHz-16QAM-23825-1RB#0-Range2:1000~10000MHz



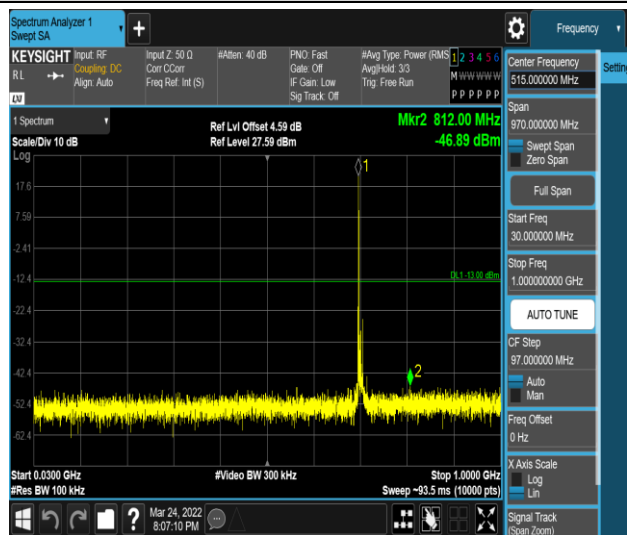
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



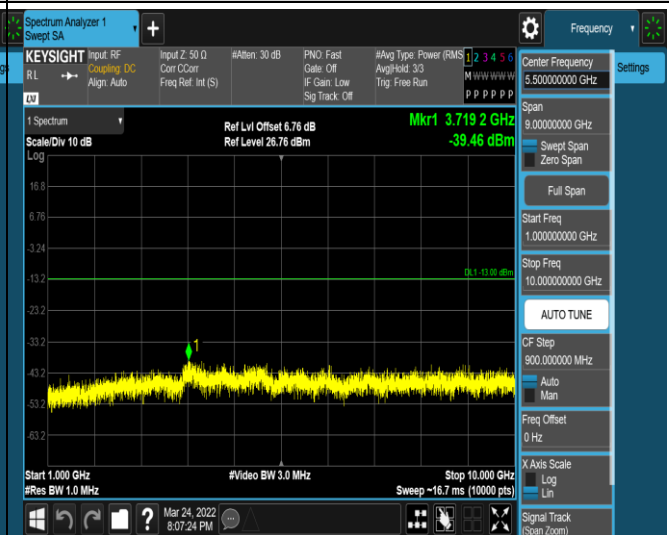
Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz

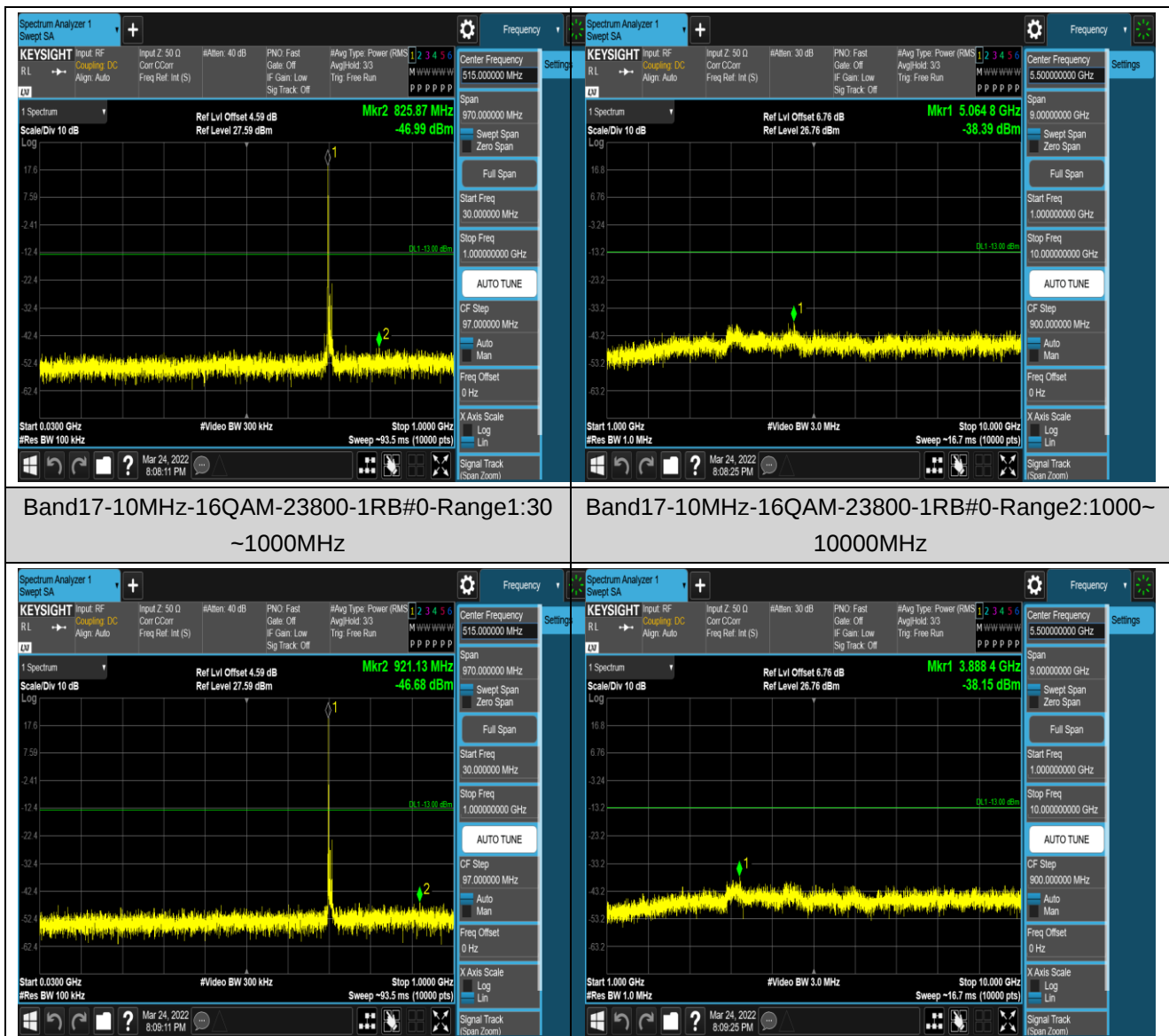


Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz





Appendix F: Frequency Stability

Test Result

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-13.92	-0.008035	Within authorized band for Band 4	Pass
	-20	-12.53	-0.007232		
	-10	-19.70	-0.011371		
	0	-15.78	-0.009108		
	10	3.55	0.002049		
	20	-6.45	-0.003723		
	30	-3.50	-0.002020		
	40	-10.64	-0.006141		
	50	-11.74	-0.006776		
16QAM					
3.80	-30	-19.47	-0.011238	Within authorized band for Band 4	Pass
	-20	-22.59	-0.013039		
	-10	1.14	0.000658		
	0	-12.09	-0.006978		
	10	-14.78	-0.008531		
	20	-5.98	-0.003452		
	30	-13.03	-0.007521		
	40	-5.75	-0.003319		
	50	15.32	0.008843		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-14.13	-0.008156	Within authorized band for Band 4	Pass
	3.80	-9.26	-0.005345		
	4.20	13.18	0.007608		
16QAM					
25	3.50	-5.28	-0.003048	Within authorized band for Band 4	Pass
	3.80	-19.25	-0.011111		
	4.20	-3.78	-0.002182		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 12 part:

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-9.28	-0.013117	Within authorized band for Band 12	Pass
	-20	-6.44	-0.009102		
	-10	-5.32	-0.007519		
	0	-5.78	-0.008170		
	10	-4.75	-0.006714		
	20	-6.15	-0.008693		
	30	-4.62	-0.006530		
	40	-5.64	-0.007972		
	50	-12.49	-0.017654		
16QAM					
3.80	-30	-10.29	-0.014544	Within authorized band for Band 12	Pass
	-20	-4.84	-0.006841		
	-10	-4.91	-0.006940		
	0	-5.97	-0.008438		
	10	-11.30	-0.015972		
	20	-8.35	-0.011802		
	30	-7.12	-0.010064		
	40	-4.48	-0.006332		
	50	-10.23	-0.014459		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-5.85	-0.008269	Within authorized band for Band 12	Pass
	3.80	-10.81	-0.015279		
	4.20	-12.70	-0.017951		
16QAM					
25	3.50	-2.70	-0.003816	Within authorized band for Band 12	Pass
	3.80	-8.08	-0.011420		
	4.20	-7.57	-0.010700		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-12.22	-0.017211	Within authorized band for Band 17	Pass
	-20	-8.63	-0.012155		
	-10	-5.58	-0.007859		
	0	-4.76	-0.006704		
	10	-3.20	-0.004507		
	20	-5.22	-0.007352		
	30	-10.29	-0.014493		
	40	-7.93	-0.011169		
	50	-6.68	-0.009408		
16QAM					
3.80	-30	-4.09	-0.005761	Within authorized band for Band 17	Pass
	-20	-12.59	-0.017732		
	-10	-8.78	-0.012366		
	0	-8.61	-0.012127		
	10	-2.86	-0.004028		
	20	-11.32	-0.015944		
	30	-9.67	-0.013620		
	40	-9.44	-0.013296		
	50	-12.07	-0.017000		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-5.39	-0.007592	Within authorized band for Band 17	Pass
	3.80	-9.71	-0.013676		
	4.20	-12.70	-0.017887		
16QAM					
25	3.50	-14.25	-0.020070	Within authorized band for Band 17	Pass
	3.80	-9.44	-0.013296		
	4.20	-4.66	-0.006563		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

