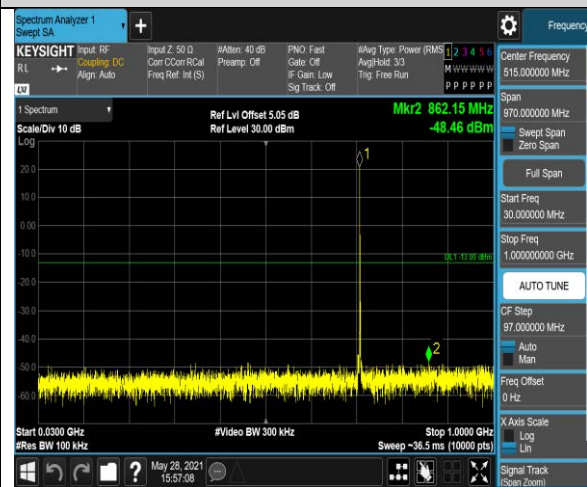
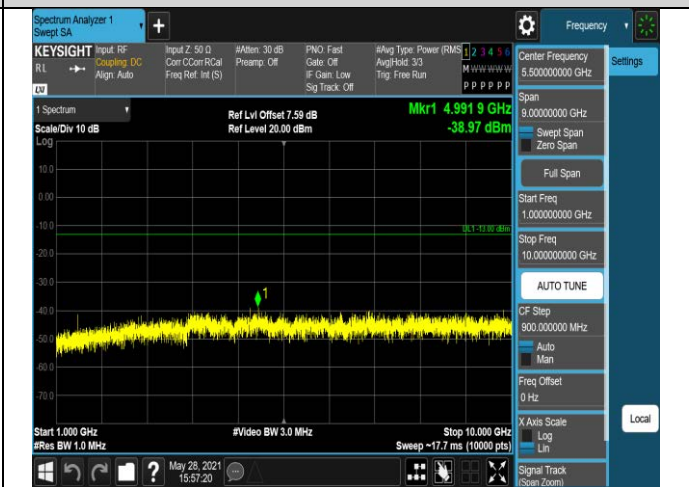


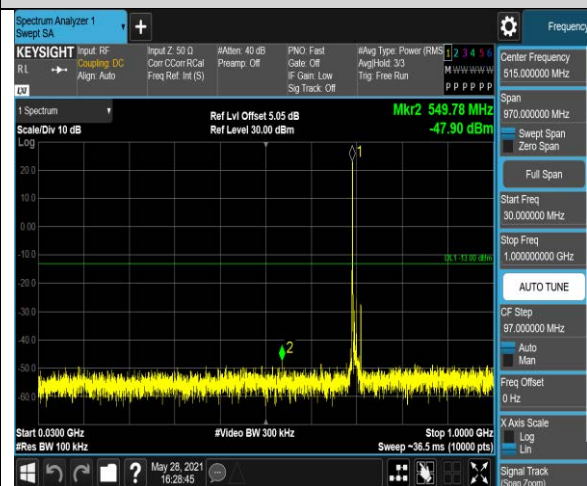
Band12-1.4MHz-16QAM-23173-1RB#0-Range1:30~1000MHz



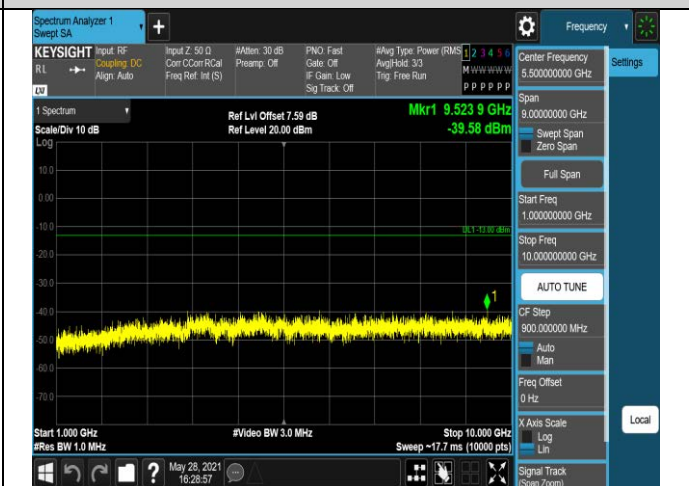
Band12-1.4MHz-16QAM-23173-1RB#0-Range2:1000~10000MHz



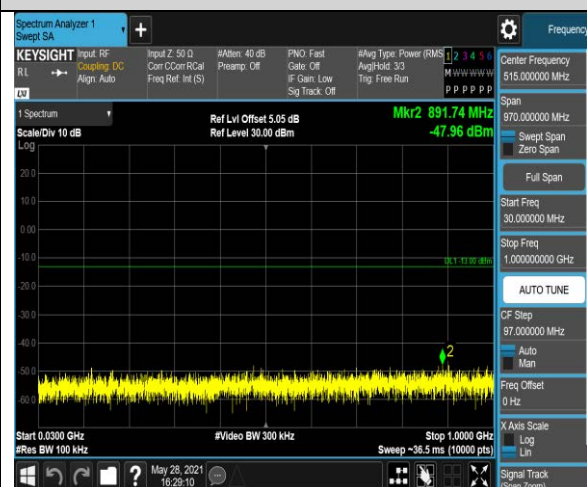
Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



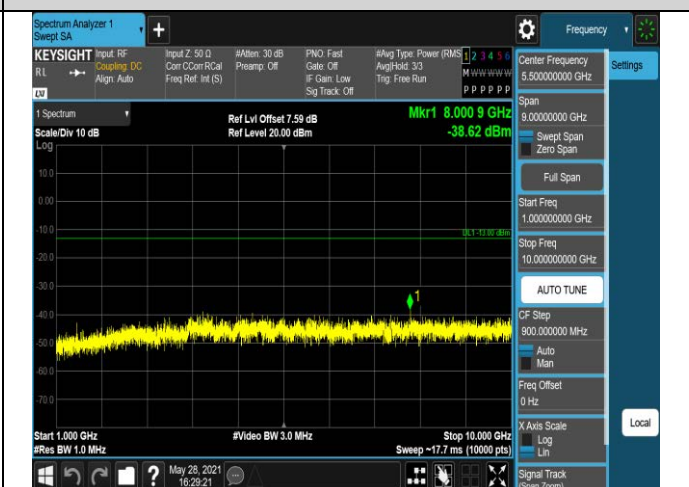
Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz

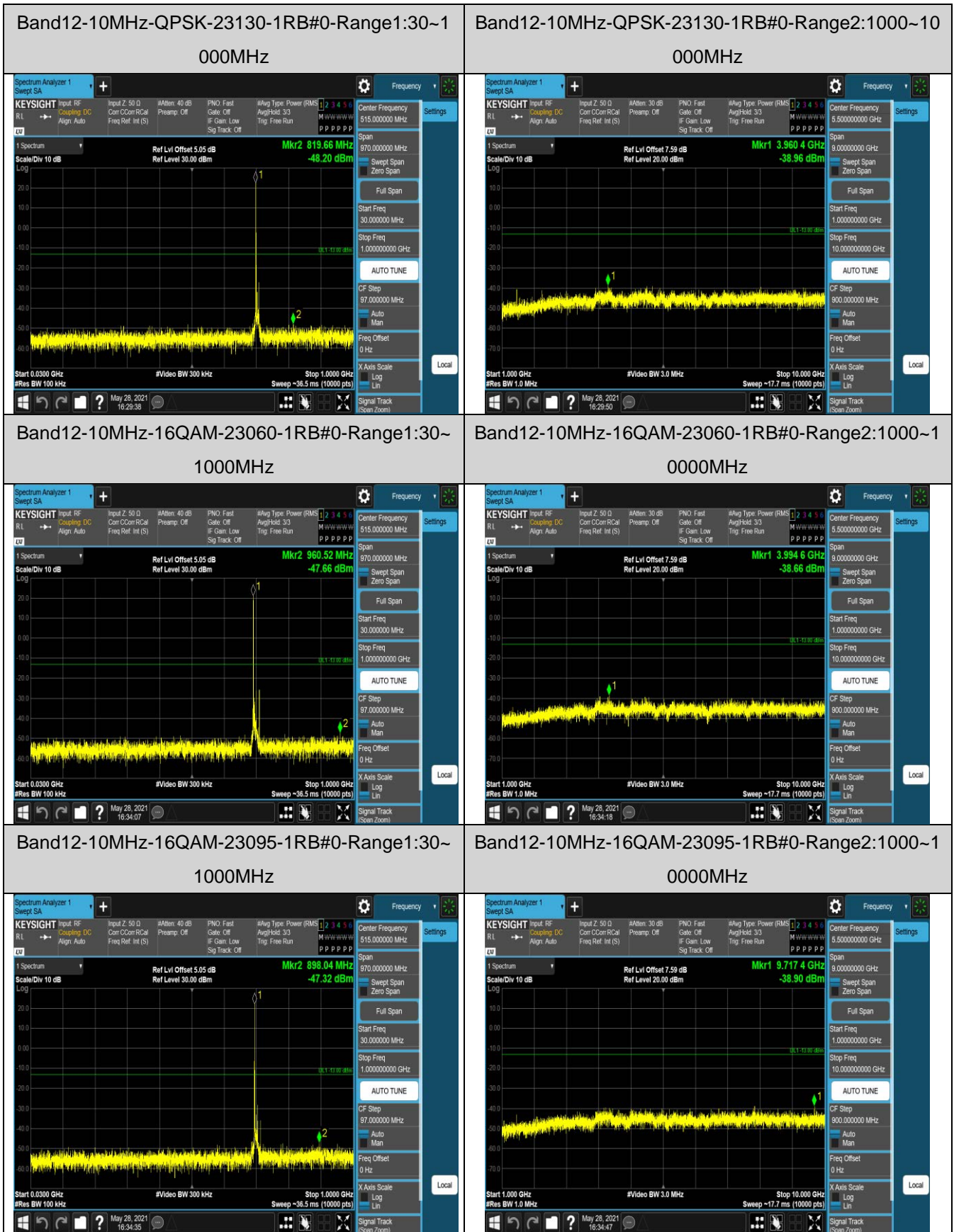


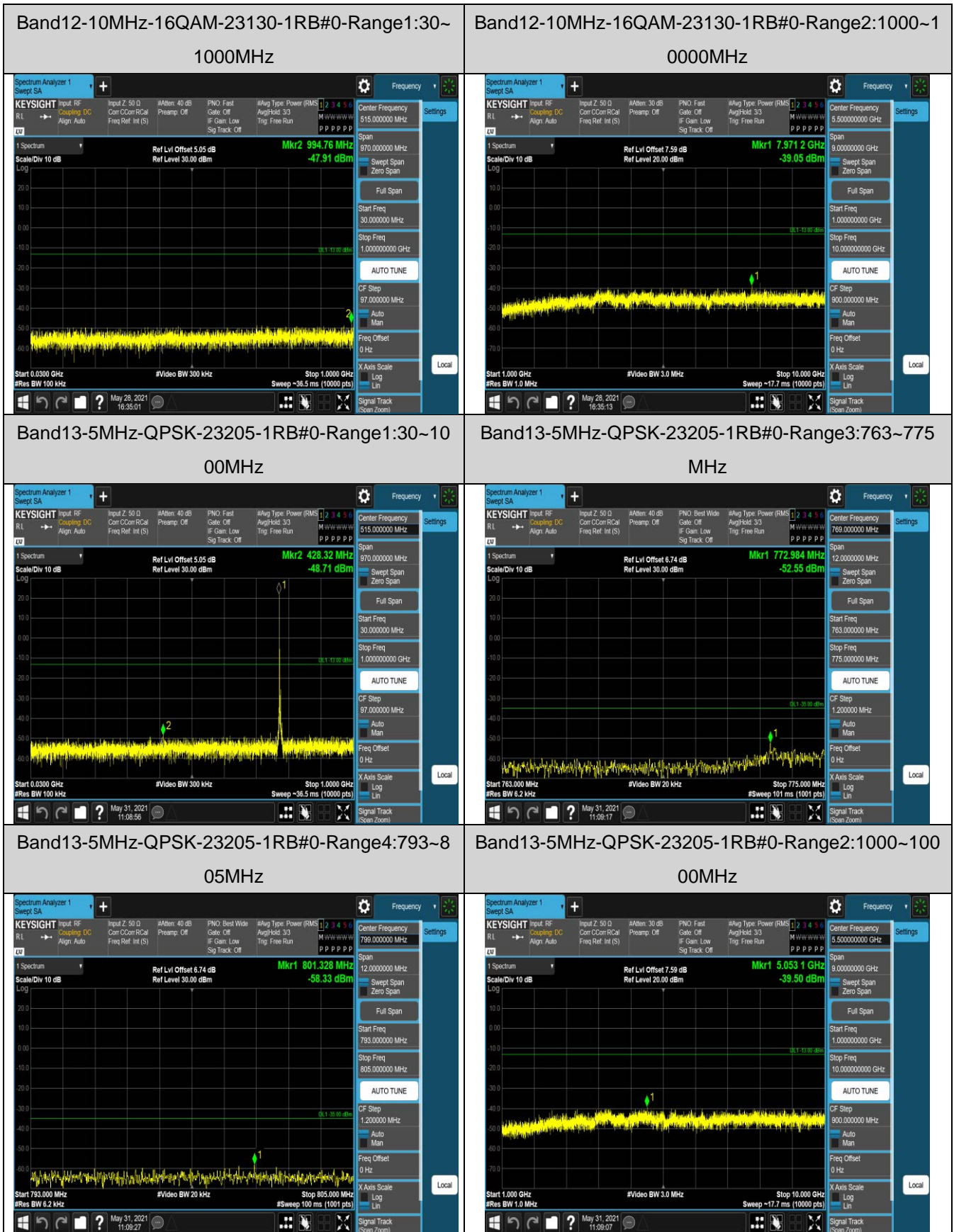
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz

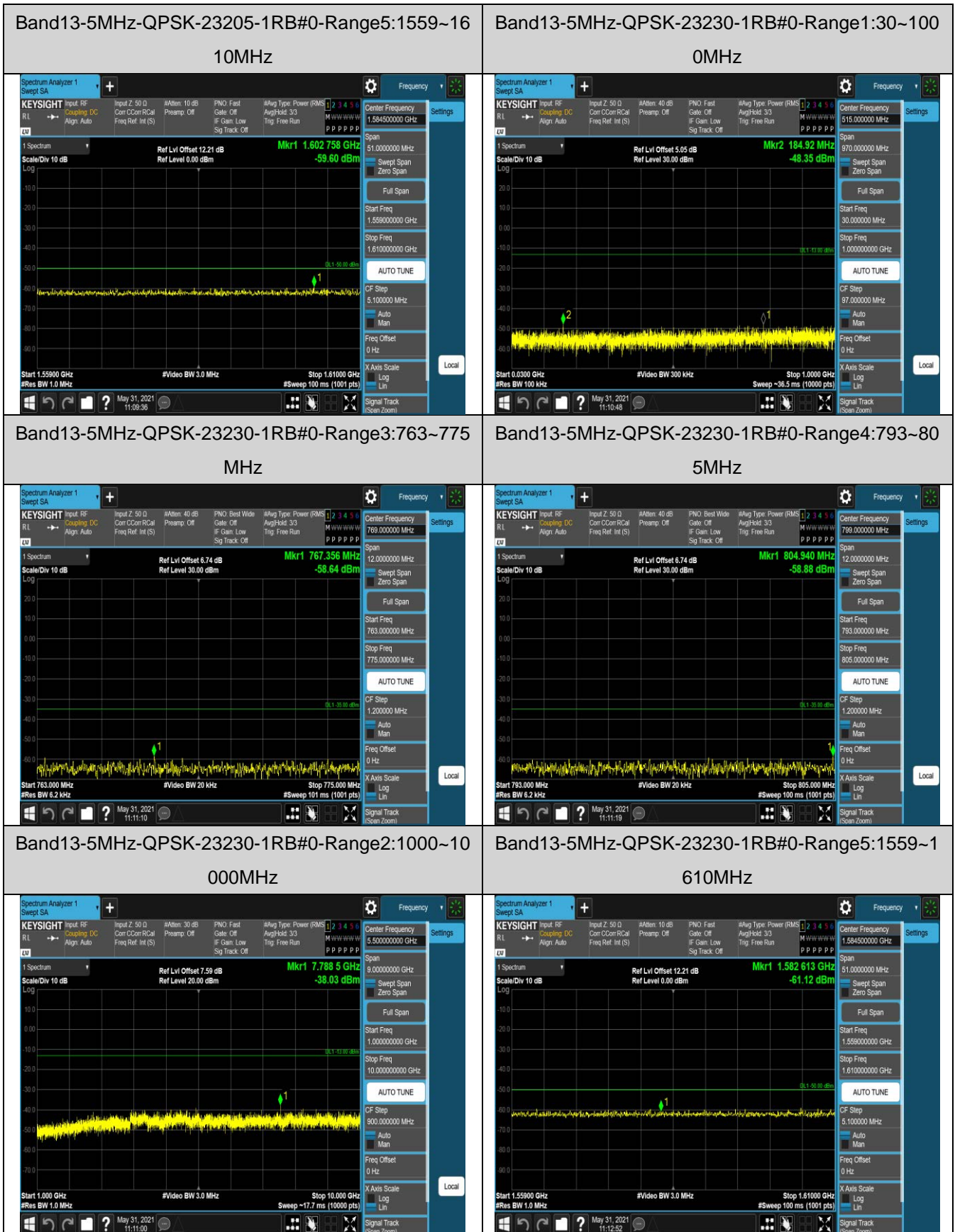


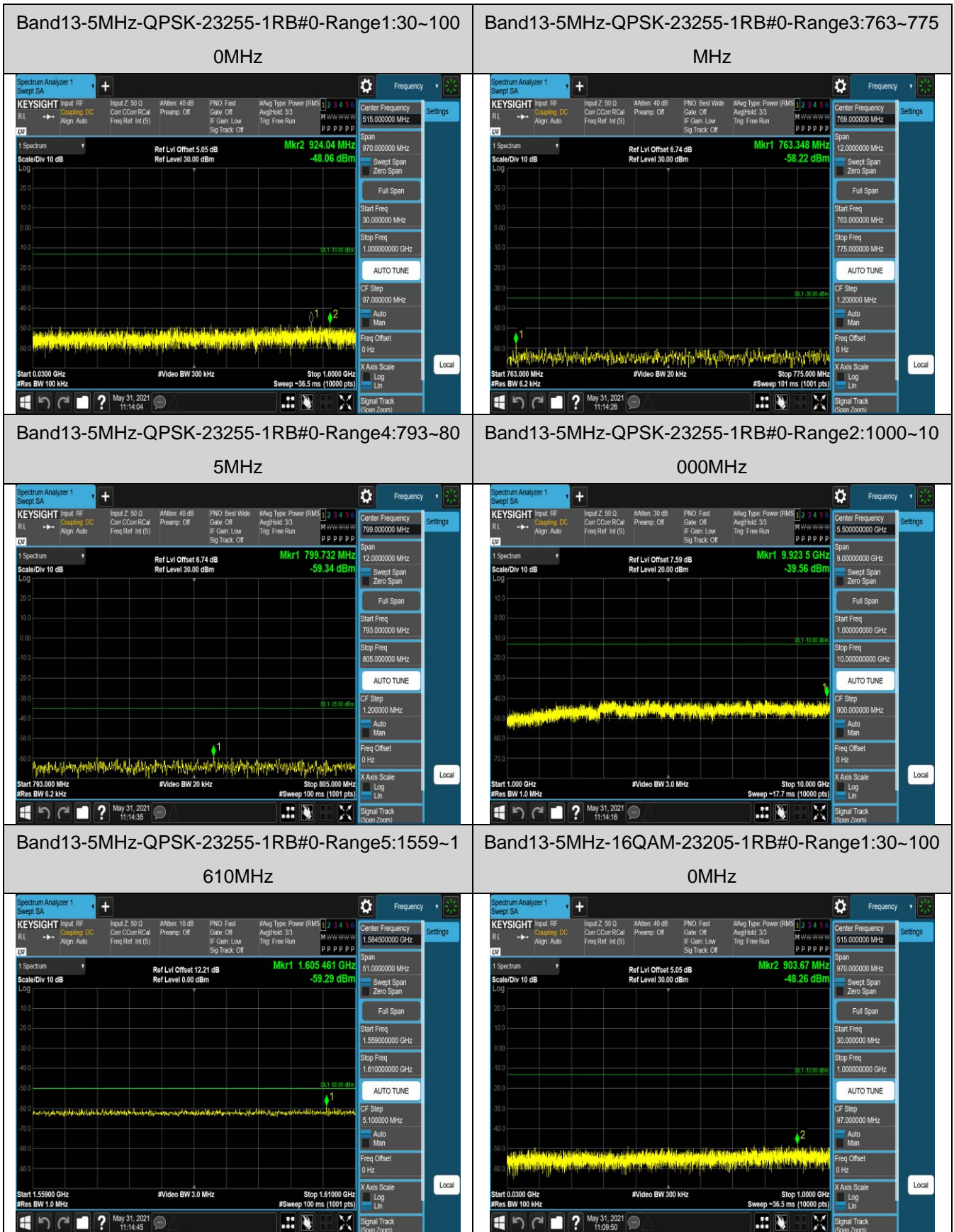
Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz











Band13-5MHz-16QAM-23205-1RB#0-Range3:763~77

5MHz



Band13-5MHz-16QAM-23205-1RB#0-Range4:793~8

05MHz



Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~1

0000MHz



Band13-5MHz-16QAM-23205-1RB#0-Range5:1559~

1610MHz



Band13-5MHz-16QAM-23230-1RB#0-Range1:30~100

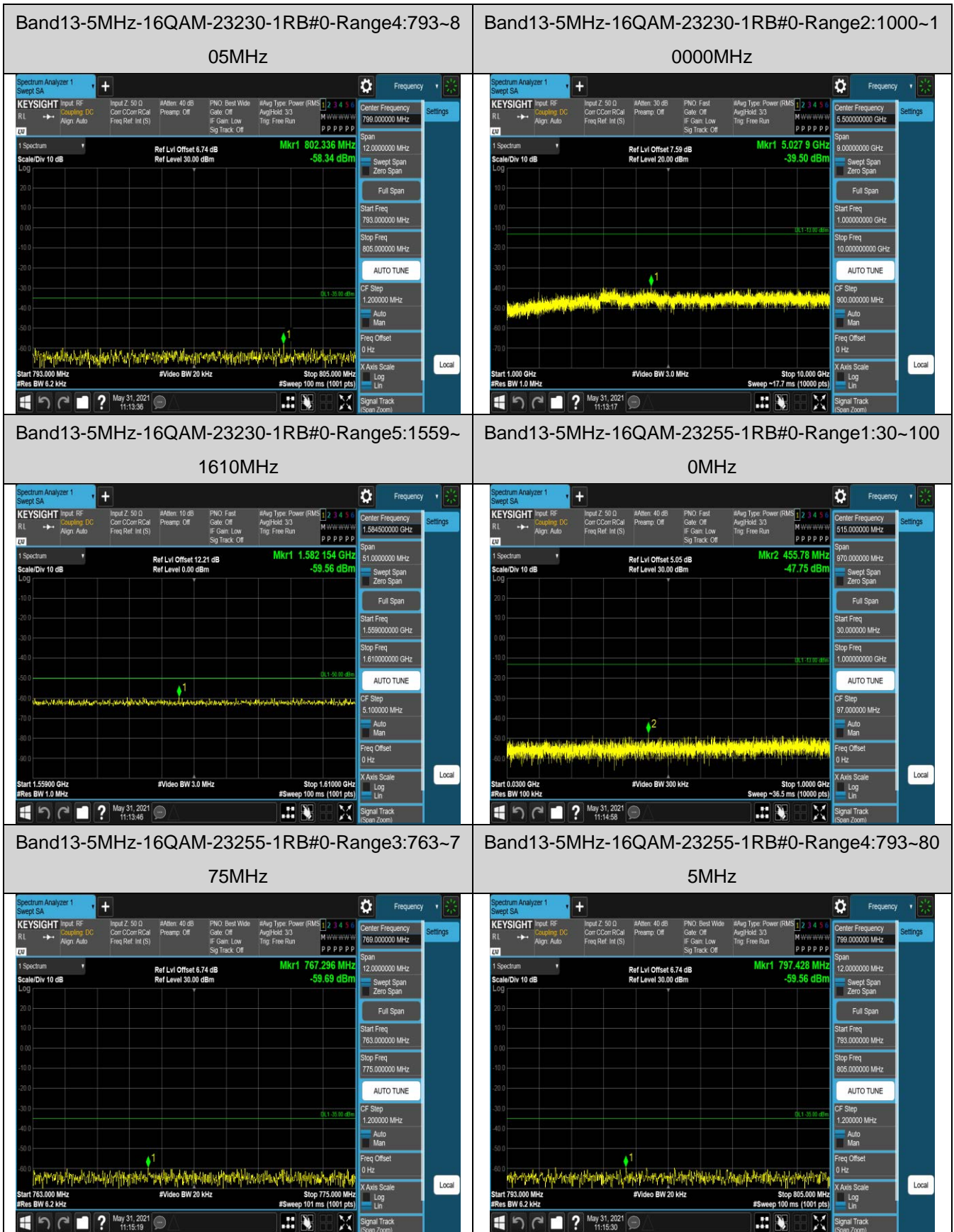
0MHz



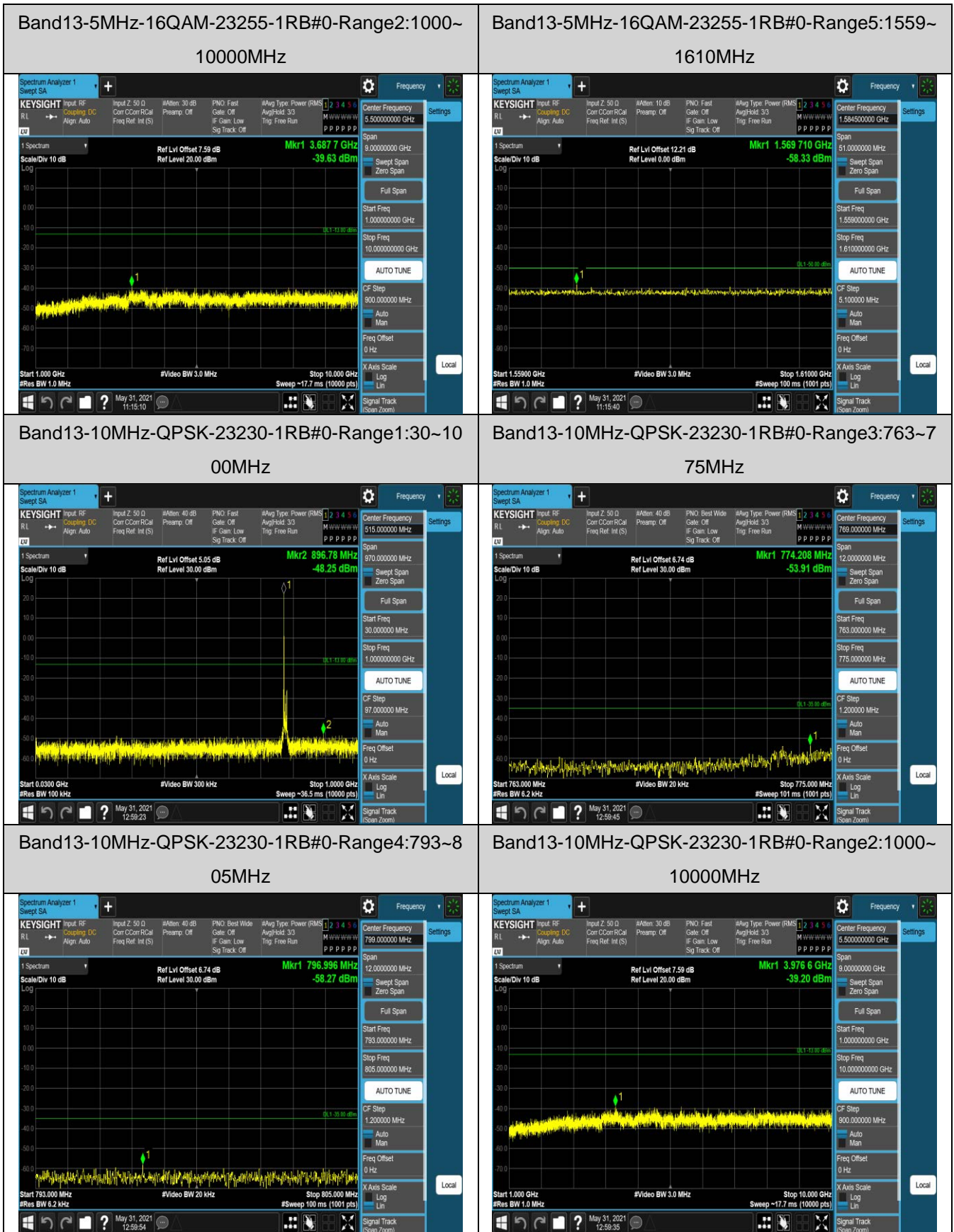
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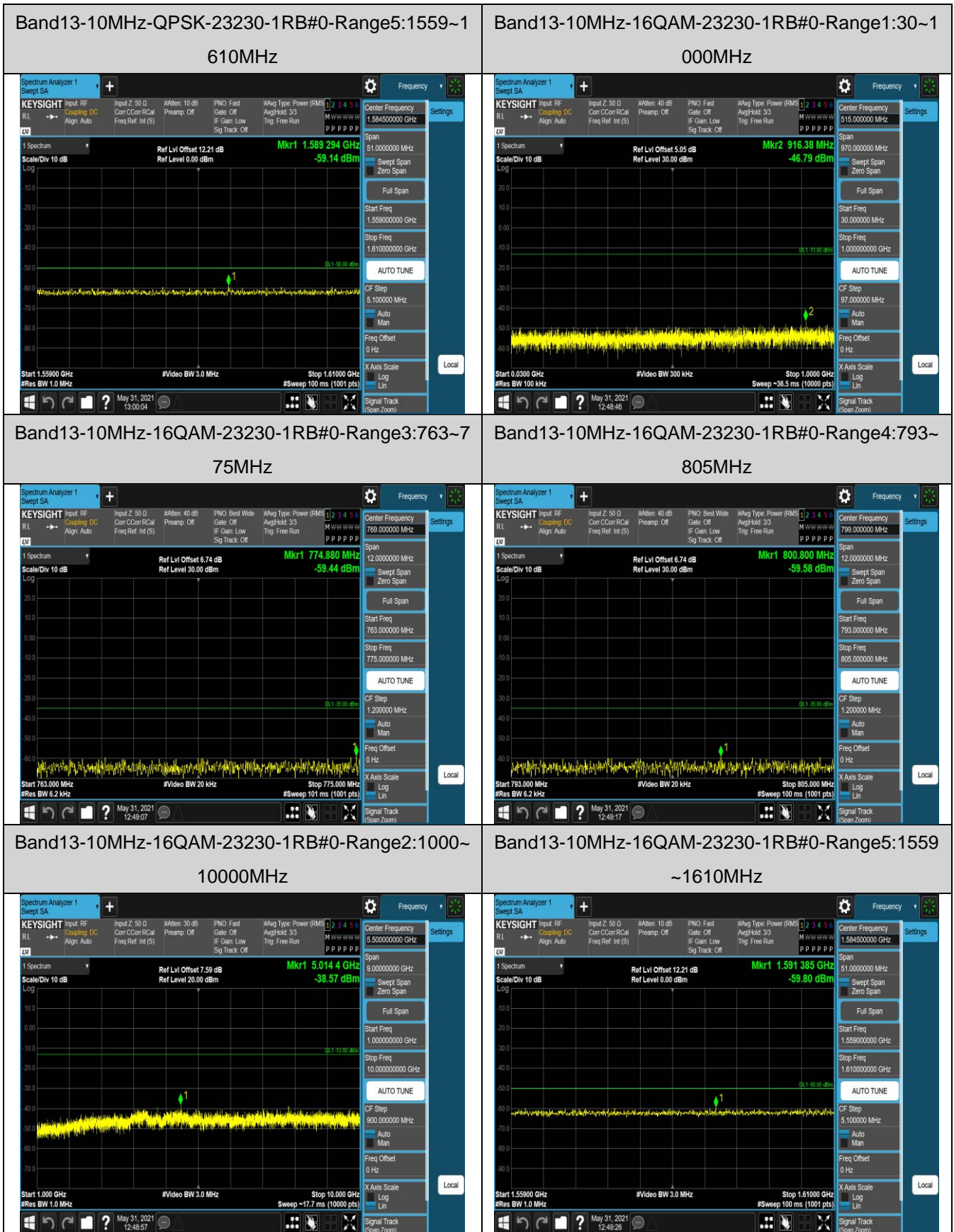
75MHz

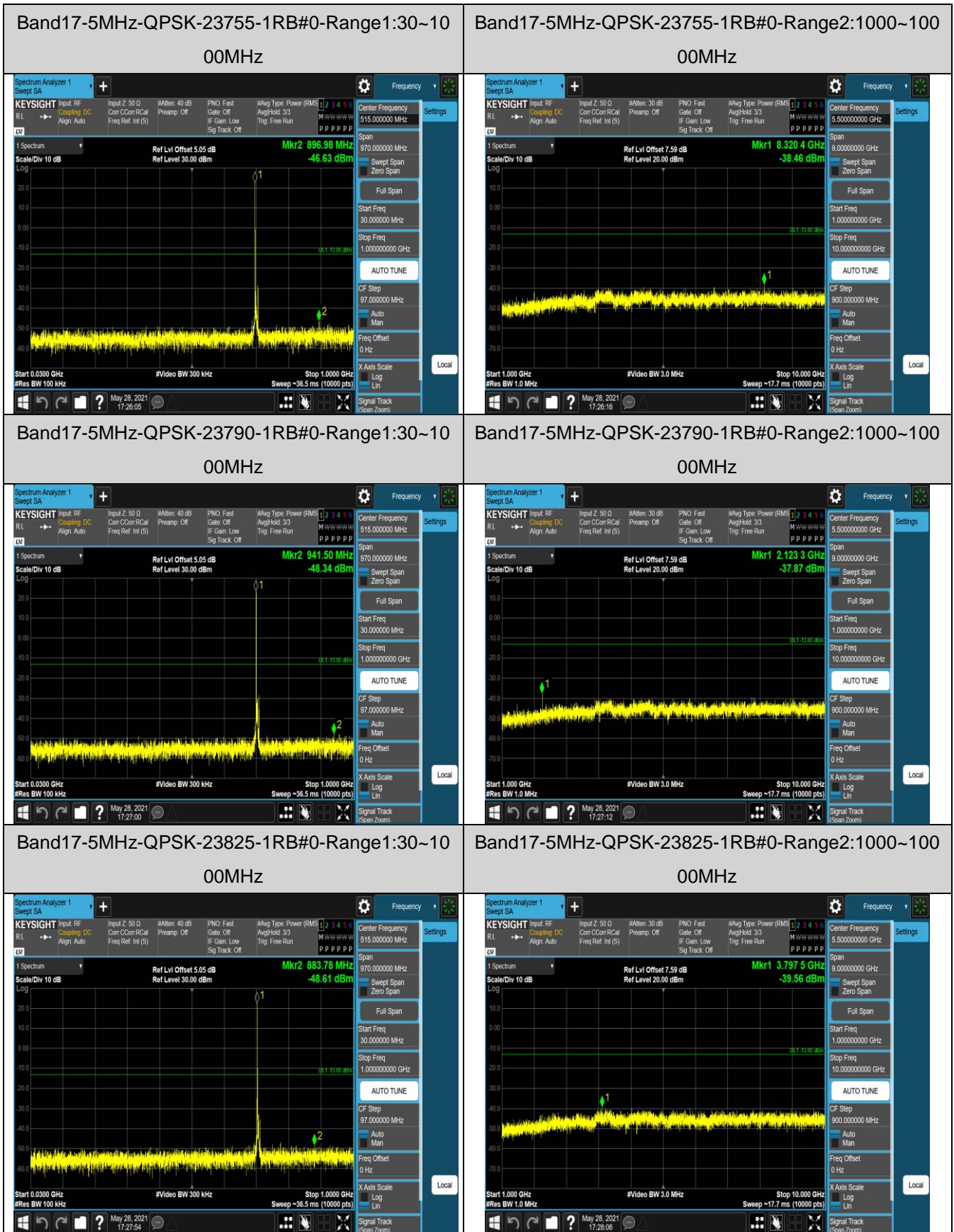






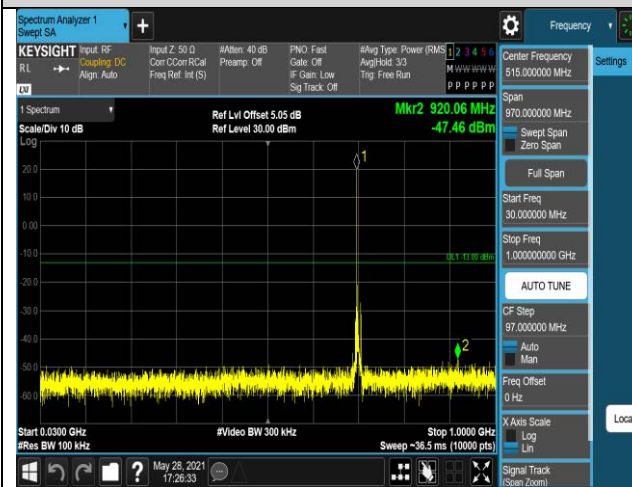






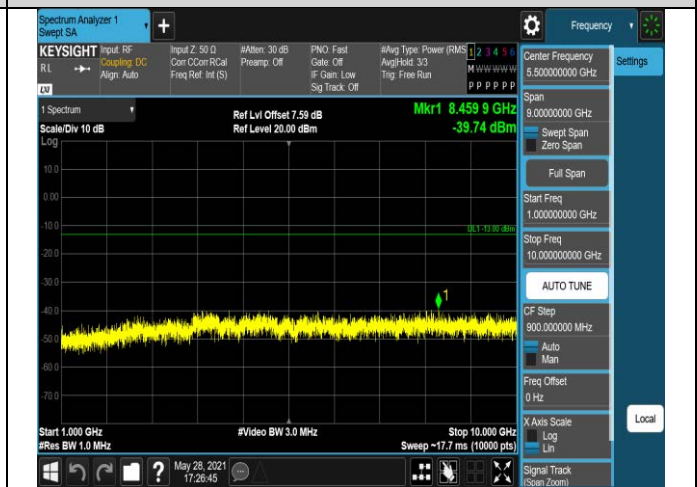
Band17-5MHz-16QAM-23755-1RB#0-Range1:30~1

000MHz



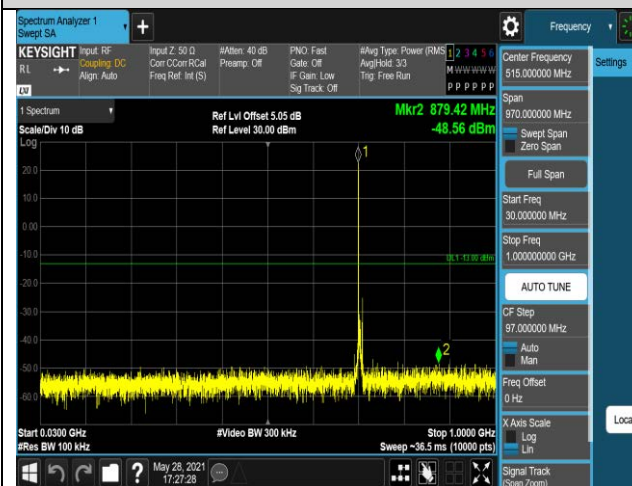
Band17-5MHz-16QAM-23755-1RB#0-Range2:1000~10

000MHz



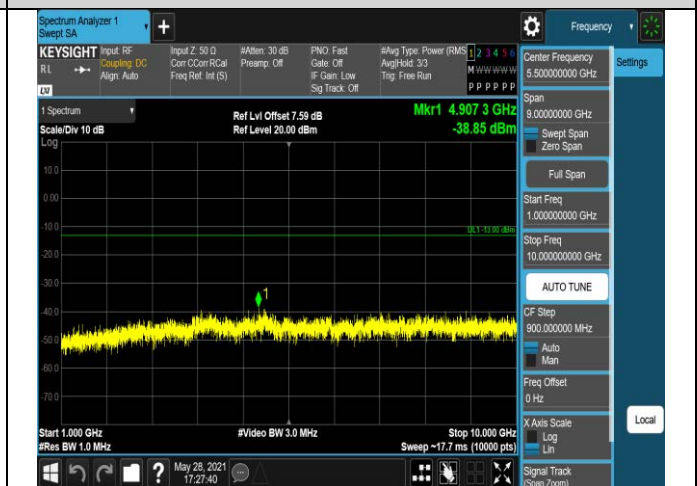
Band17-5MHz-16QAM-23790-1RB#0-Range1:30~1

000MHz



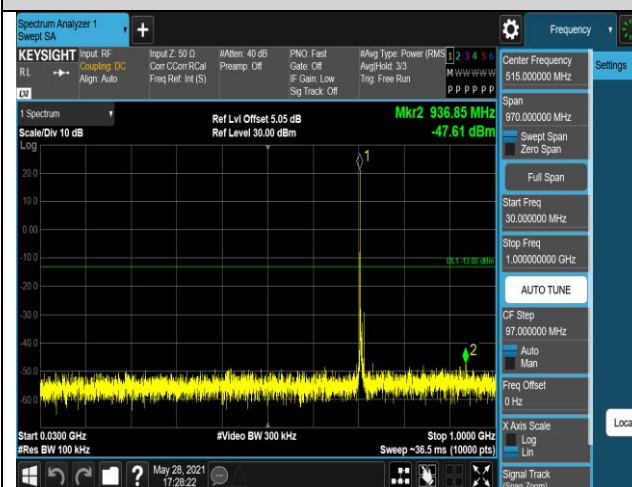
Band17-5MHz-16QAM-23790-1RB#0-Range2:1000~10

000MHz



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

000MHz



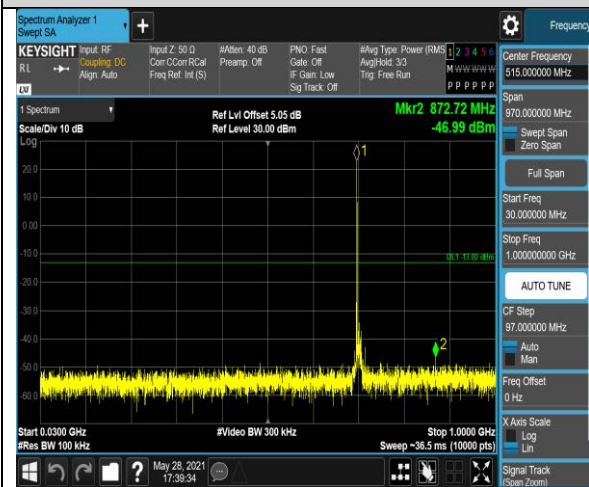
Band17-5MHz-16QAM-23825-1RB#0-Range2:1000~10

000MHz



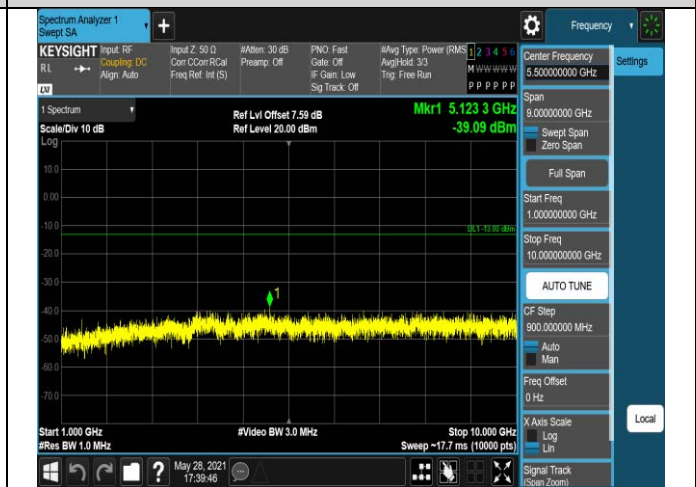
Band17-10MHz-QPSK-23780-1RB#0-Range1:30~1

000MHz



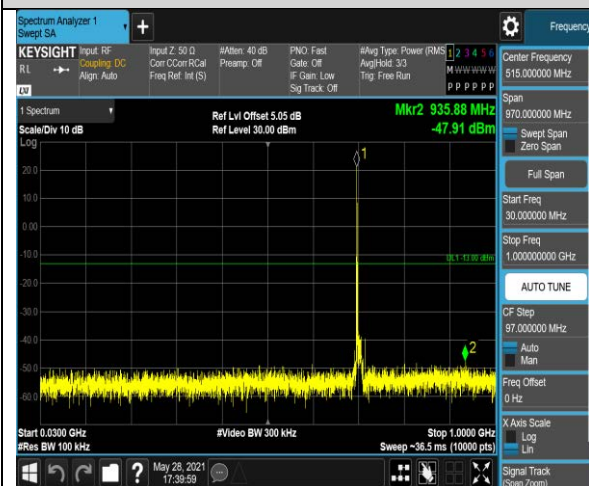
Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10

000MHz



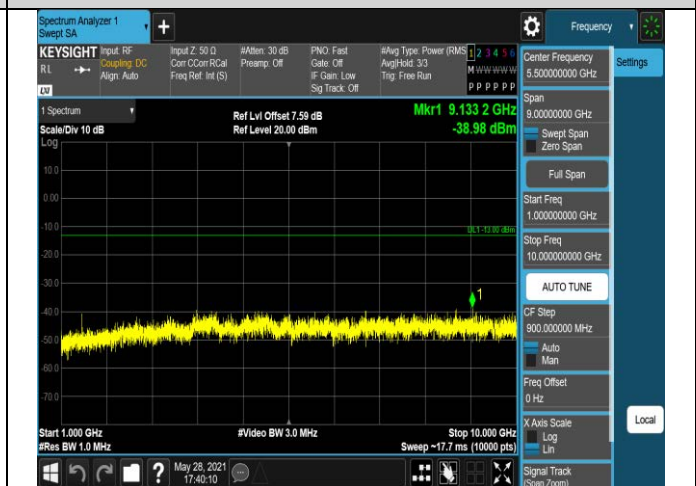
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1

000MHz



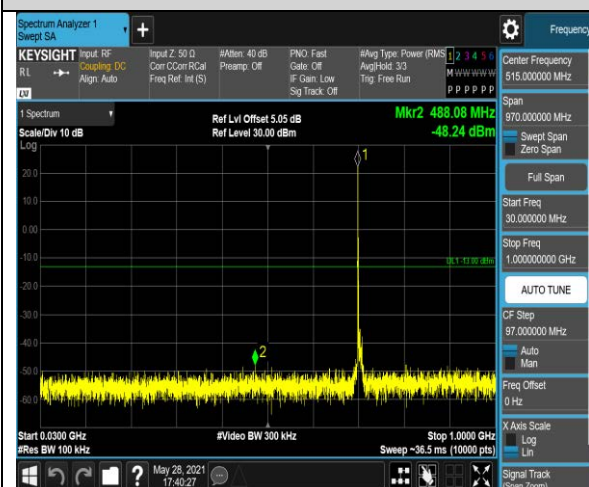
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10

000MHz



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

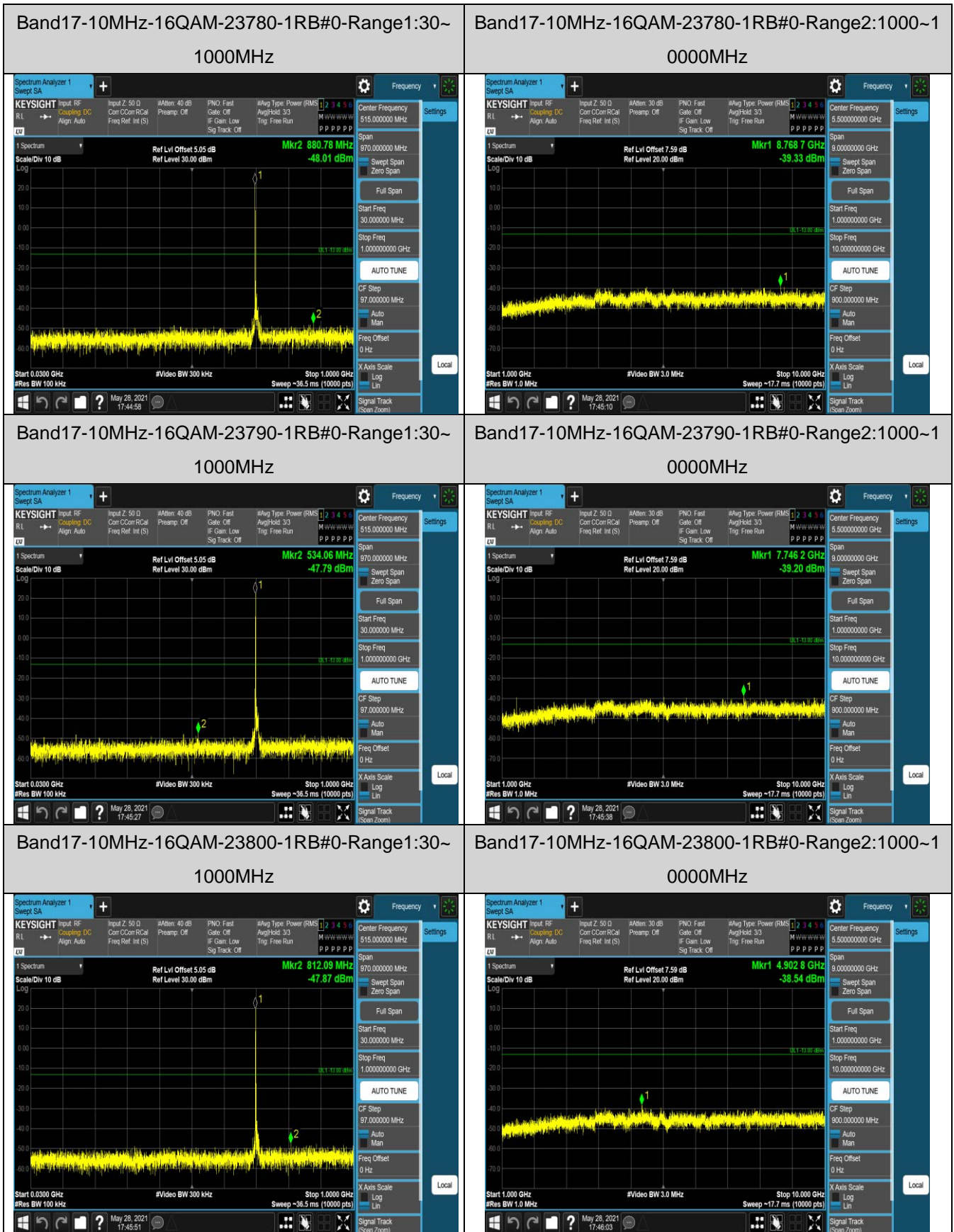
000MHz



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

000MHz





## Appendix F: Frequency Stability

### Test Result (Worst case):

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	-20.10	-0.010691	Within authorized band for Band 2	Pass
	-20	-22.00	-0.011702		
	-10	-19.34	-0.010287		
	0	-16.34	-0.008691		
	10	-16.58	-0.008819		
	20	-10.27	-0.005463		
	30	-8.33	-0.004431		
	40	-18.35	-0.009761		
	50	-17.98	-0.009564		
16QAM					
3.70	-30	-16.14	-0.008585	Within authorized band for Band 2	Pass
	-20	-16.37	-0.008707		
	-10	-20.24	-0.010766		
	0	-4.08	-0.002170		
	10	-14.42	-0.007670		
	20	-18.45	-0.009814		
	30	-14.63	-0.007782		
	40	-8.24	-0.004383		
	50	-19.56	-0.010404		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-12.10	-0.006436	Within authorized band for Band 2	Pass
	3.70	-14.33	-0.007622		
	4.20	-14.92	-0.007936		
16QAM					
25	3.50	-15.71	-0.008356	Within authorized band for Band 2	Pass
	3.70	-17.60	-0.009362		
	4.20	-18.32	-0.009745		

Note: Only the worst case shown in the report.

**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					
3.70	-30	-12.99	-0.007498	Within authorized band for Band 4	Pass
	-20	-9.53	-0.005501		
	-10	-13.78	-0.007954		
	0	-7.94	-0.004583		
	10	-14.83	-0.008560		
	20	11.17	0.006447		
	30	-17.85	-0.010303		
	40	10.69	0.006170		
	50	-15.34	-0.008854		
16QAM					
3.70	-30	-16.22	-0.009362	Within authorized band for Band 4	Pass
	-20	-13.50	-0.007792		
	-10	-10.89	-0.006286		
	0	-15.65	-0.009033		
	10	-14.75	-0.008514		
	20	9.93	0.005732		
	30	-11.09	-0.006401		
	40	11.60	0.006696		
	50	-15.41	-0.008895		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-20.31	-0.011723	Within authorized band for Band 4	Pass
	3.70	12.66	0.007307		
	4.20	-12.60	-0.007273		
16QAM					
25	3.50	-13.99	-0.008075	Within authorized band for Band 4	Pass
	3.70	-14.93	-0.008618		
	4.20	-19.76	-0.011405		

Note: Only the worst case shown in the 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					
3.70	-30	-11.04	-0.015604	Within authorized band for Band 12	Pass
	-20	-10.01	-0.014148		
	-10	-10.29	-0.014544		
	0	-9.53	-0.013470		
	10	-12.90	-0.018233		
	20	-10.04	-0.014191		
	30	-8.57	-0.012113		
	40	-8.47	-0.011972		
	50	-10.90	-0.015406		
16QAM					
3.70	-30	-9.97	-0.014092	Within authorized band for Band 12	Pass
	-20	-11.70	-0.016537		
	-10	-10.13	-0.014318		
	0	-12.35	-0.017456		
	10	-6.75	-0.009541		
	20	-9.83	-0.013894		
	30	-10.01	-0.014148		
	40	-11.34	-0.016028		
	50	-12.46	-0.017611		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-12.70	-0.017951	Within authorized band for Band 12	Pass
	3.70	-10.30	-0.014558		
	4.20	-9.57	-0.013527		
16QAM					
25	3.50	-10.69	-0.015110	Within authorized band for Band 12	Pass
	3.70	-11.59	-0.016382		
	4.20	-9.66	-0.013654		

Note: Only the worst case shown in the report.

## LTE Band 13 part:

Reference Frequency: LTE Band 13(10MHz) Middle channel=23230 Frequency=782.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	-10.93	-0.013977	Within authorized band for Band 17	Pass
	-20	-9.41	-0.012033		
	-10	-9.94	-0.012711		
	0	-13.48	-0.017238		
	10	-12.32	-0.015754		
	20	-2.22	-0.002839		
	30	-2.92	-0.003734		
	40	-12.06	-0.015422		
	50	-8.80	-0.011253		
16QAM					
3.70	-30	-12.36	-0.015806	Within authorized band for Band 17	Pass
	-20	-10.89	-0.013926		
	-10	-11.69	-0.014949		
	0	-9.28	-0.011867		
	10	-4.05	-0.005179		
	20	-13.76	-0.017596		
	30	2.56	0.003274		
	40	-9.51	-0.012161		
	50	-13.39	-0.017123		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-12.35	-0.017394	Within authorized band for Band 17	Pass
	3.70	-9.67	-0.013620		
	4.20	-11.87	-0.016718		
16QAM					
25	3.50	-9.13	-0.012859	Within authorized band for Band 17	Pass
	3.70	-8.51	-0.011986		
	4.20	-12.53	-0.017648		

Note: Only the worst case shown in the 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					
3.70	-30	-7.20	-0.010141	Within authorized band for Band 17	Pass
	-20	-9.04	-0.012732		
	-10	-10.26	-0.014451		
	0	-8.25	-0.011620		
	10	-7.62	-0.010732		
	20	-8.96	-0.012620		
	30	-8.00	-0.011268		
	40	-12.30	-0.017324		
	50	-9.86	-0.013887		
16QAM					
3.70	-30	-16.34	-0.023014	Within authorized band for Band 17	Pass
	-20	-13.52	-0.019042		
	-10	-10.14	-0.014282		
	0	-11.09	-0.015620		
	10	-7.70	-0.010845		
	20	-10.44	-0.014704		
	30	-8.33	-0.011732		
	40	-10.69	-0.015056		
	50	-13.83	-0.019479		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-12.35	-0.017394	Within authorized band for Band 17	Pass
	3.70	-9.67	-0.013620		
	4.20	-11.87	-0.016718		
16QAM					
25	3.50	-9.13	-0.012859	Within authorized band for Band 17	Pass
	3.70	-8.51	-0.011986		
	4.20	-12.53	-0.017648		

Note: Only the worst case shown in the report.