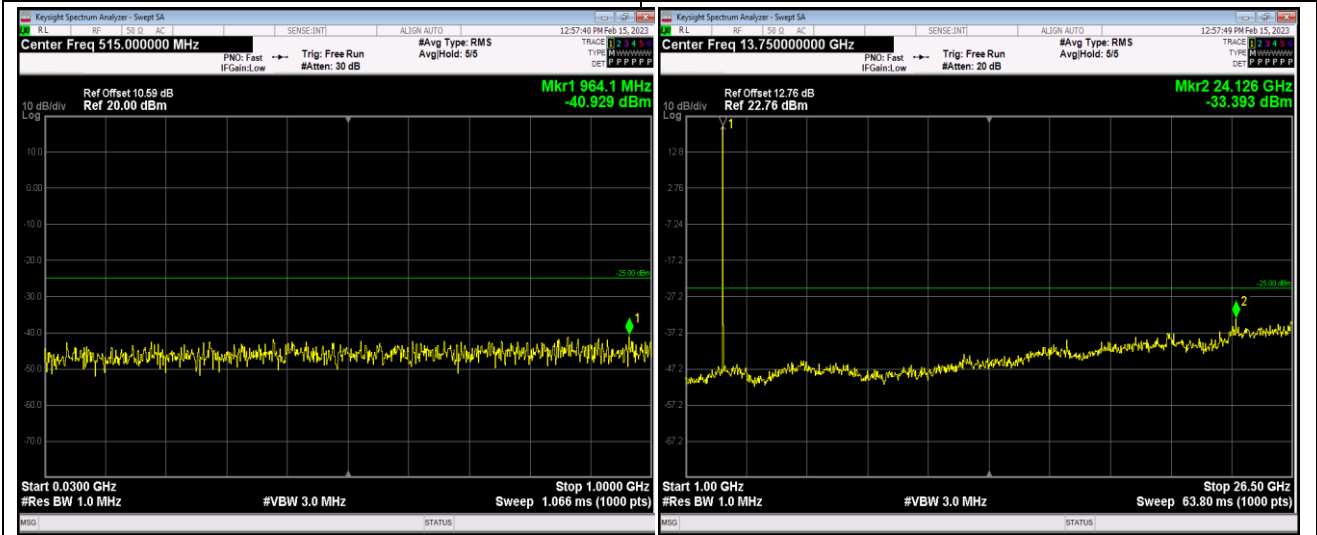


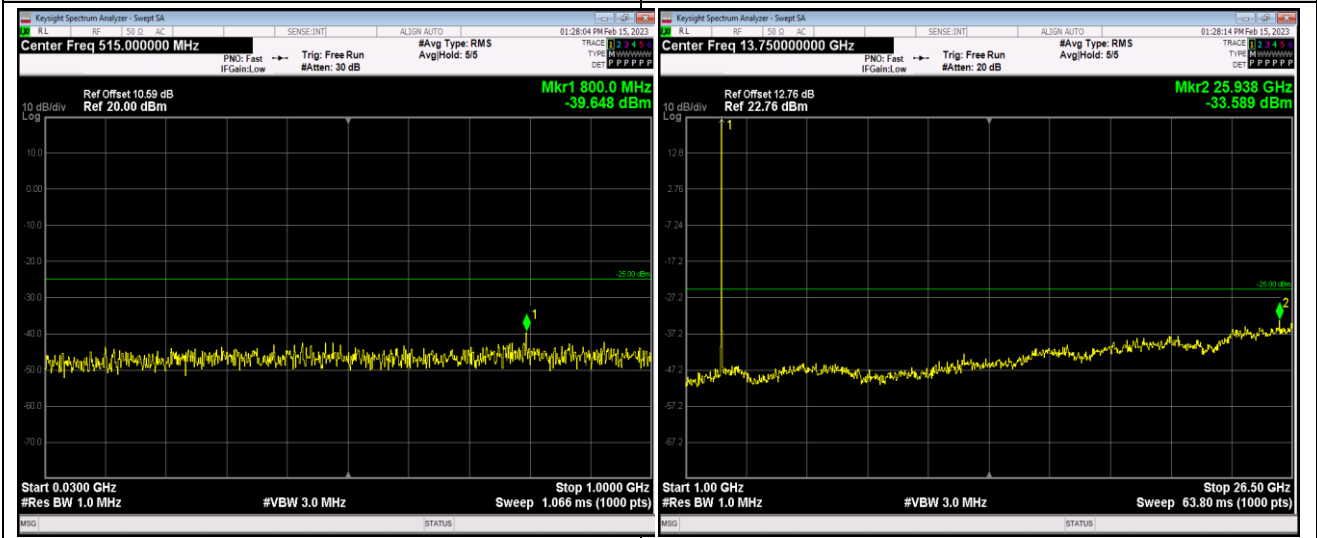
Band7-5MHz-64QAM-21425-1RB#0-Range1:30~1000MHz

Band7-5MHz-64QAM-21425-1RB#0-Range2:1000~26500MHz



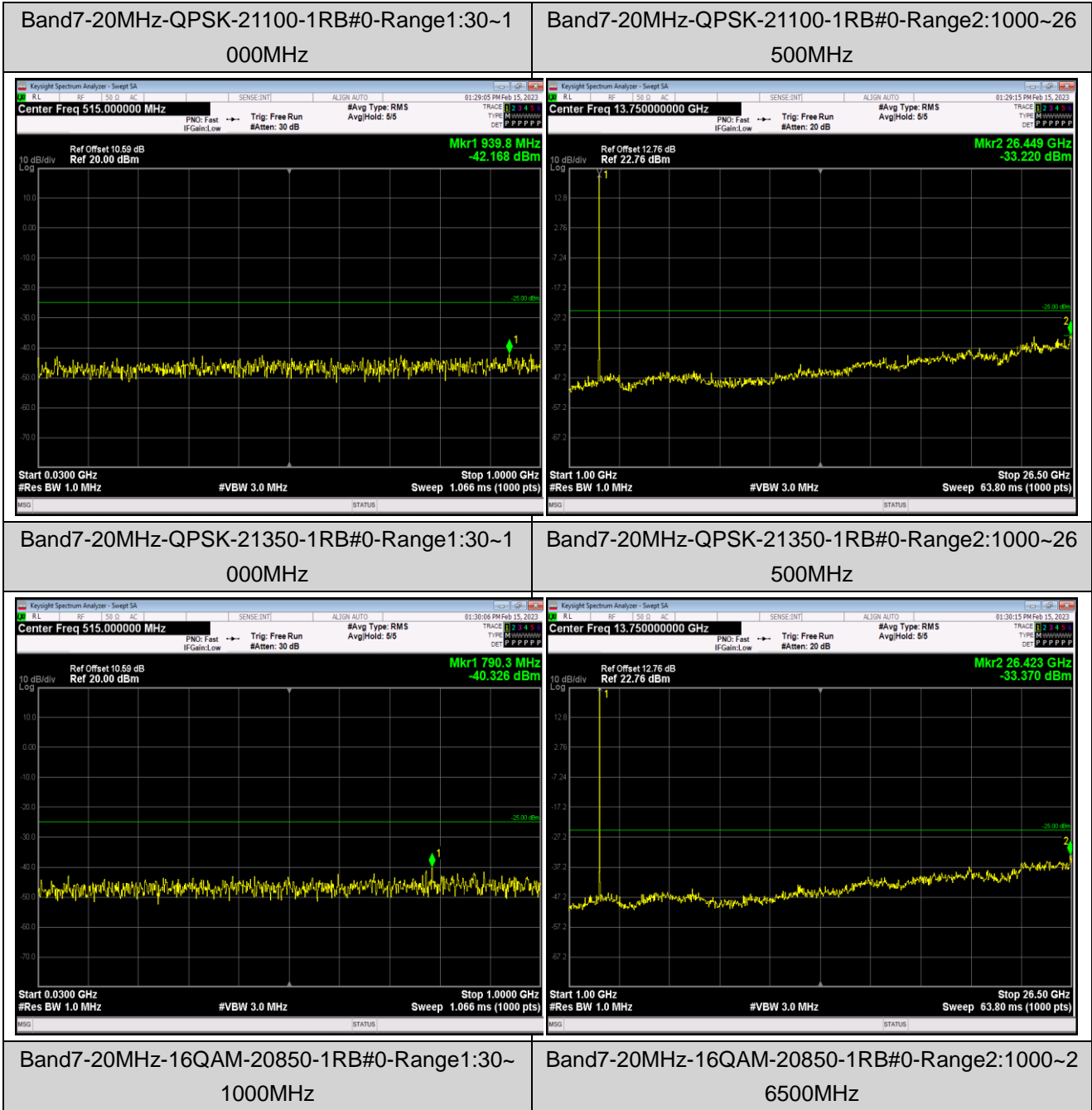
Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz

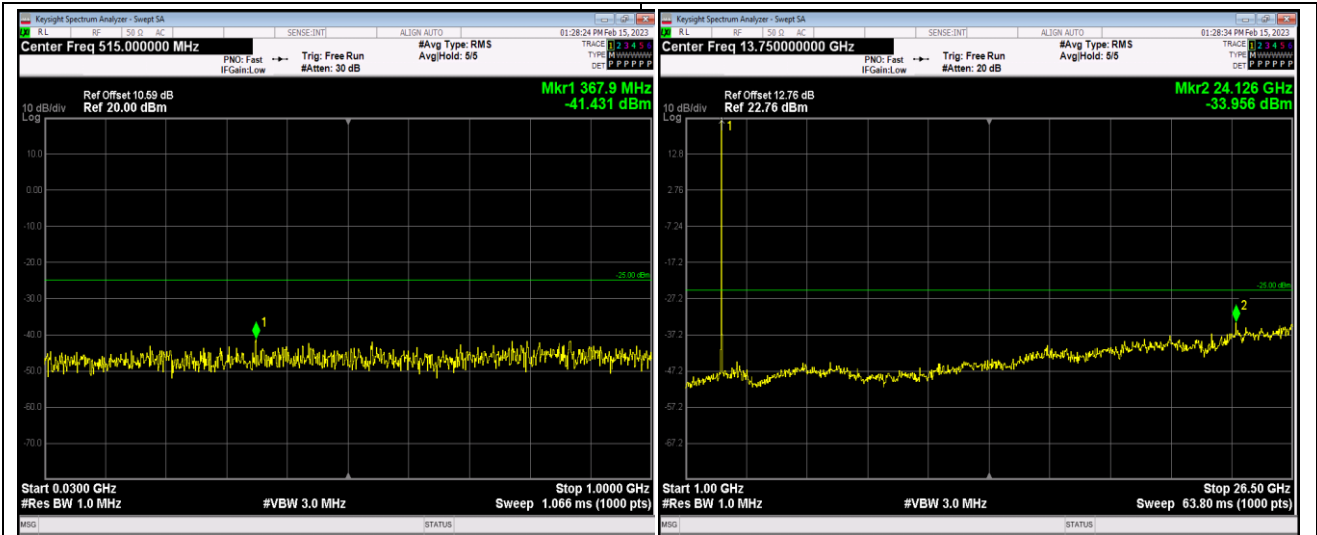
Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~26500MHz



Band7-25MHz-QPSK-20850-1RB#0-Range1:30~1000MHz

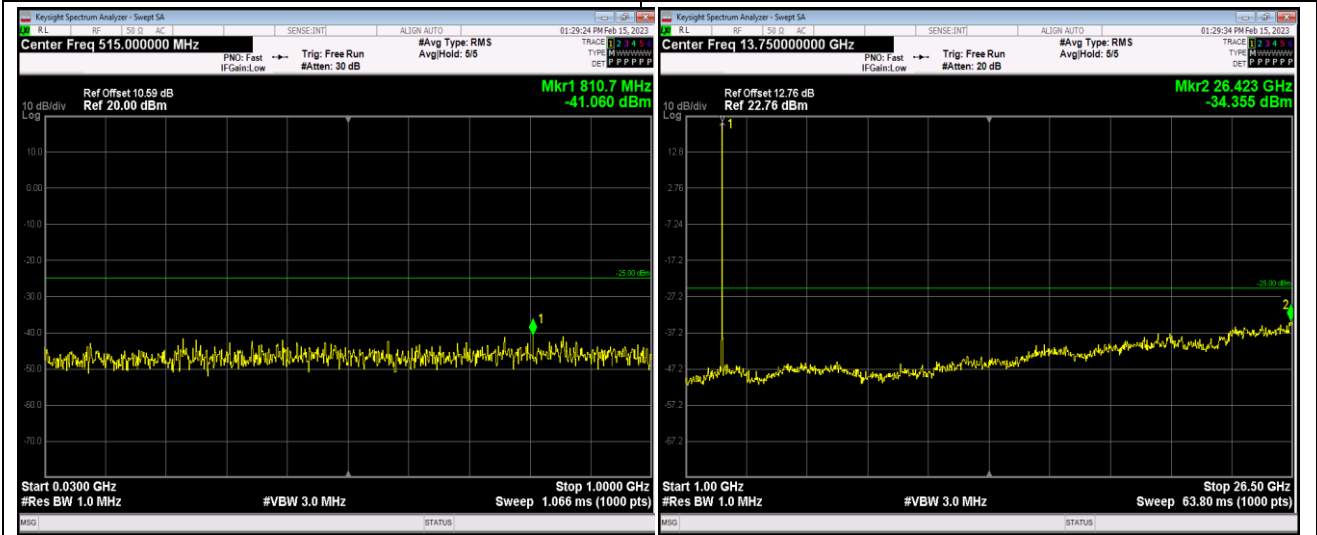
Band7-25MHz-QPSK-20850-1RB#0-Range2:1000~26500MHz





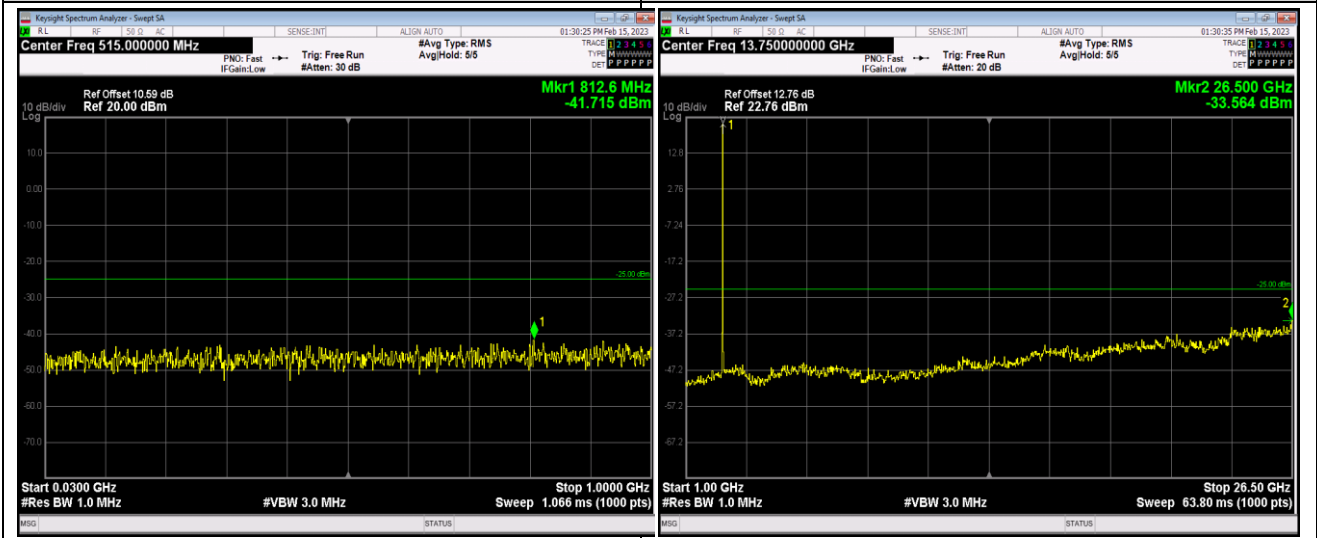
Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz

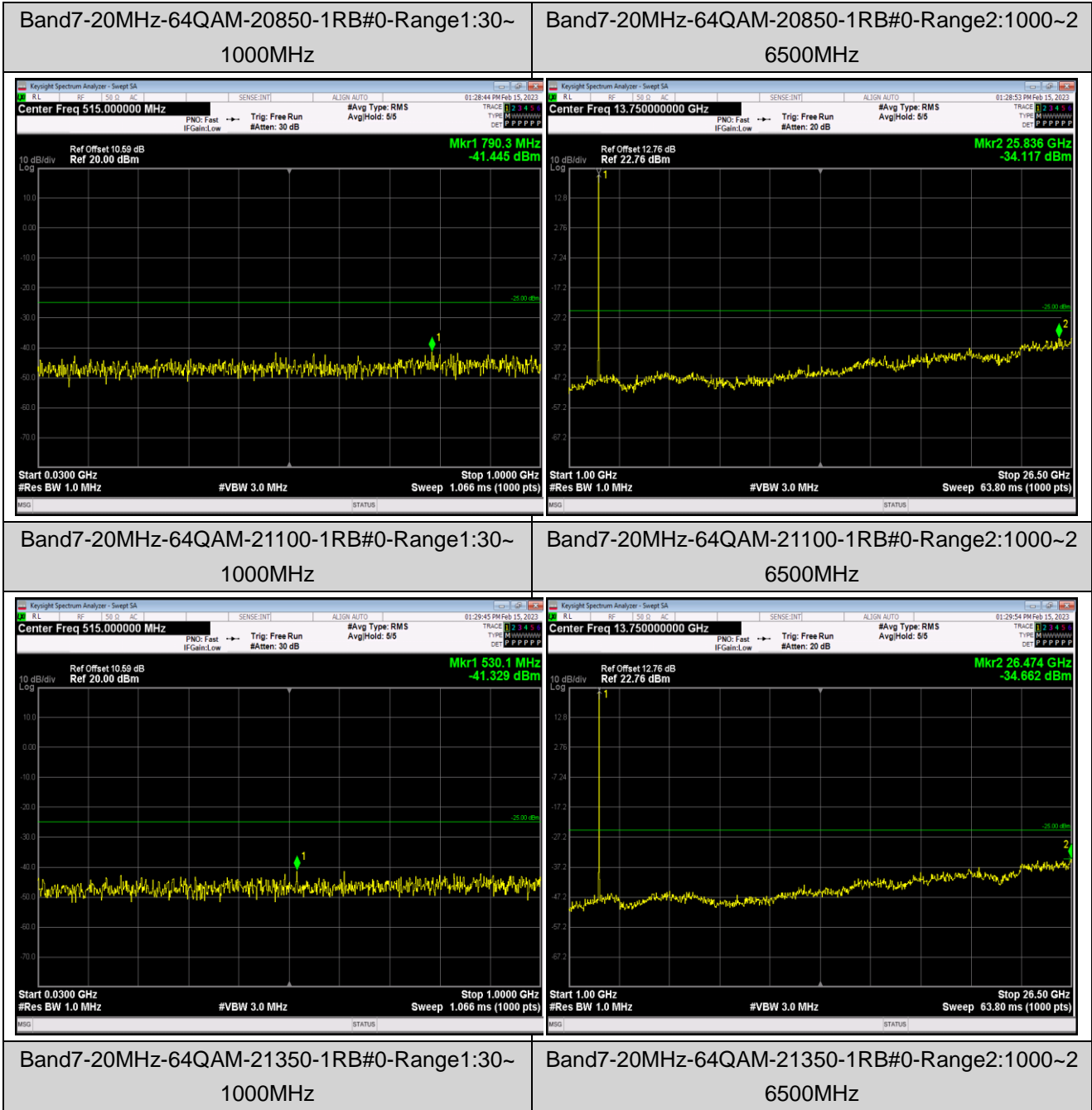
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~6500MHz

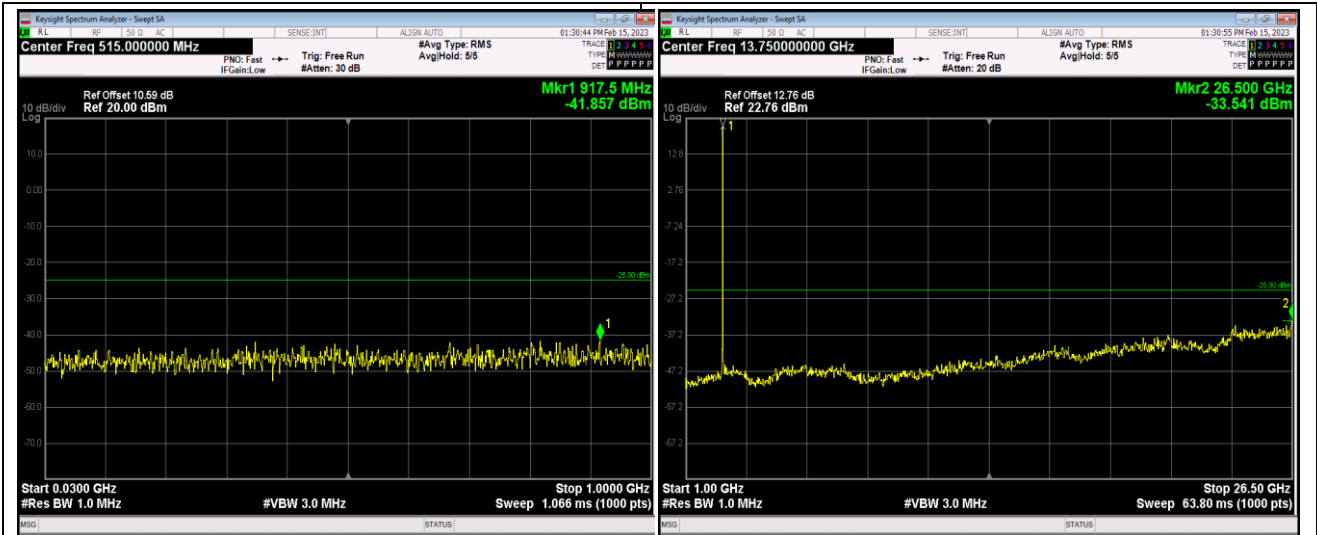


Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz

Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~6500MHz

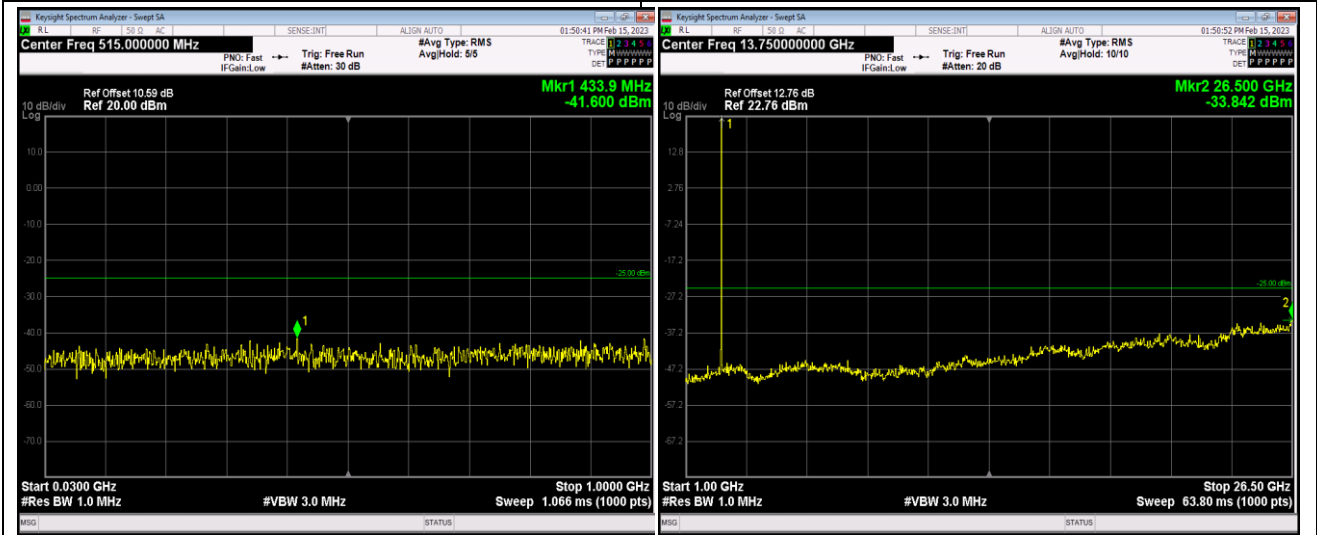






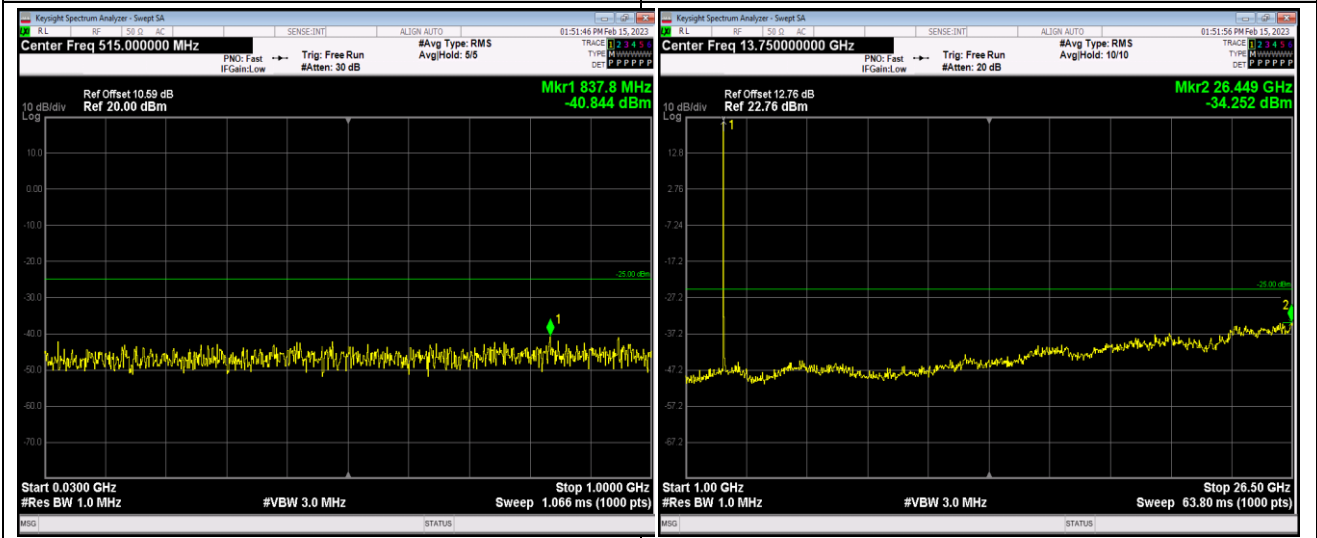
Band41-5MHz-QPSK-39675-1RB#0-Range1:30~1000MHz

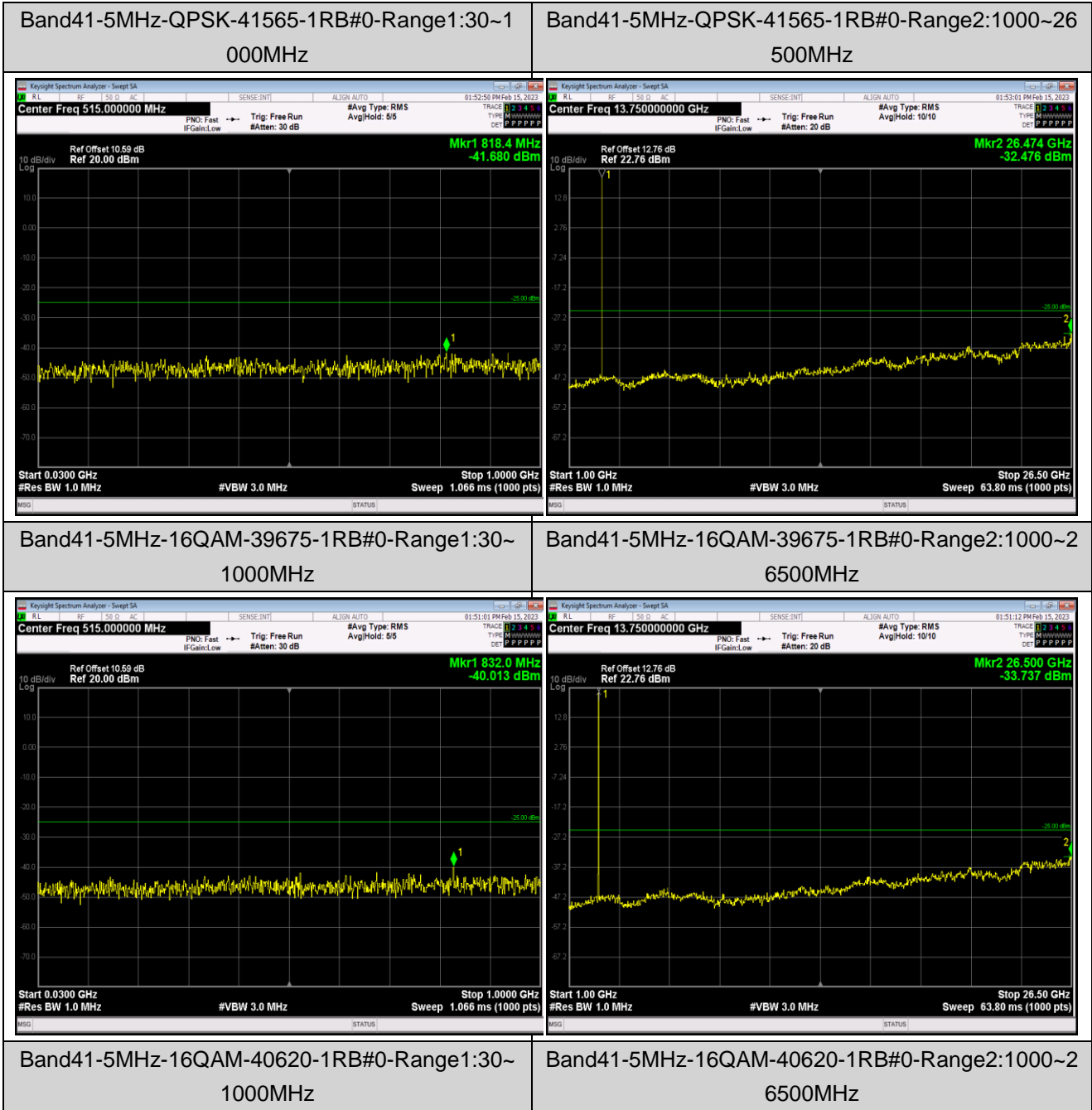
Band41-5MHz-QPSK-39675-1RB#0-Range2:1000~26500MHz

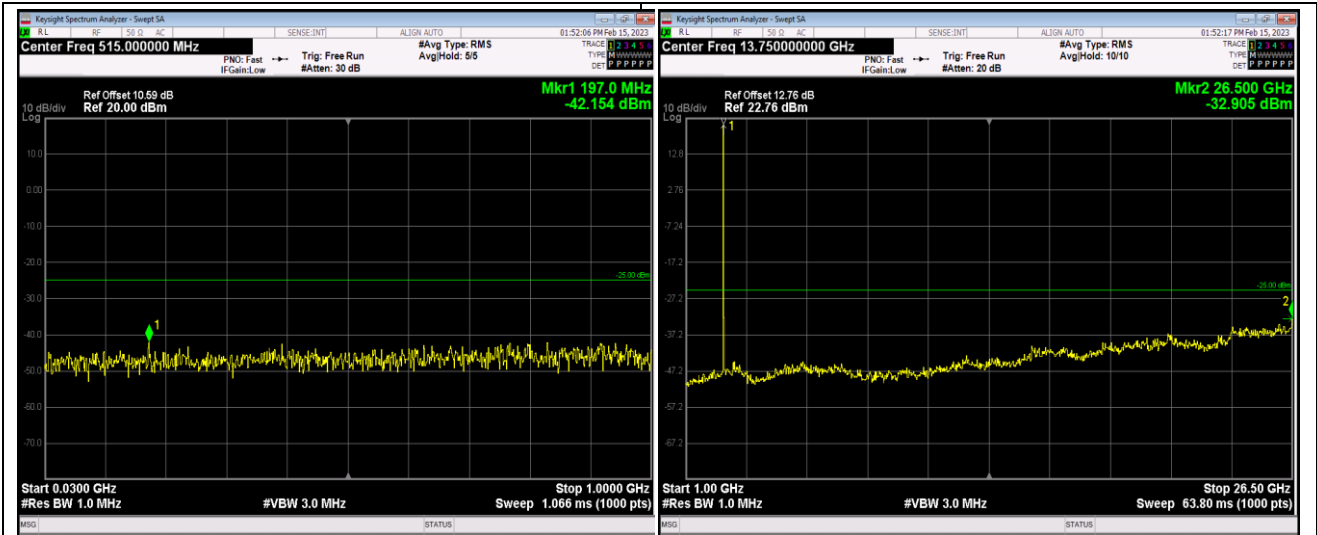


Band41-5MHz-QPSK-40620-1RB#0-Range1:30~1000MHz

Band41-5MHz-QPSK-40620-1RB#0-Range2:1000~26500MHz

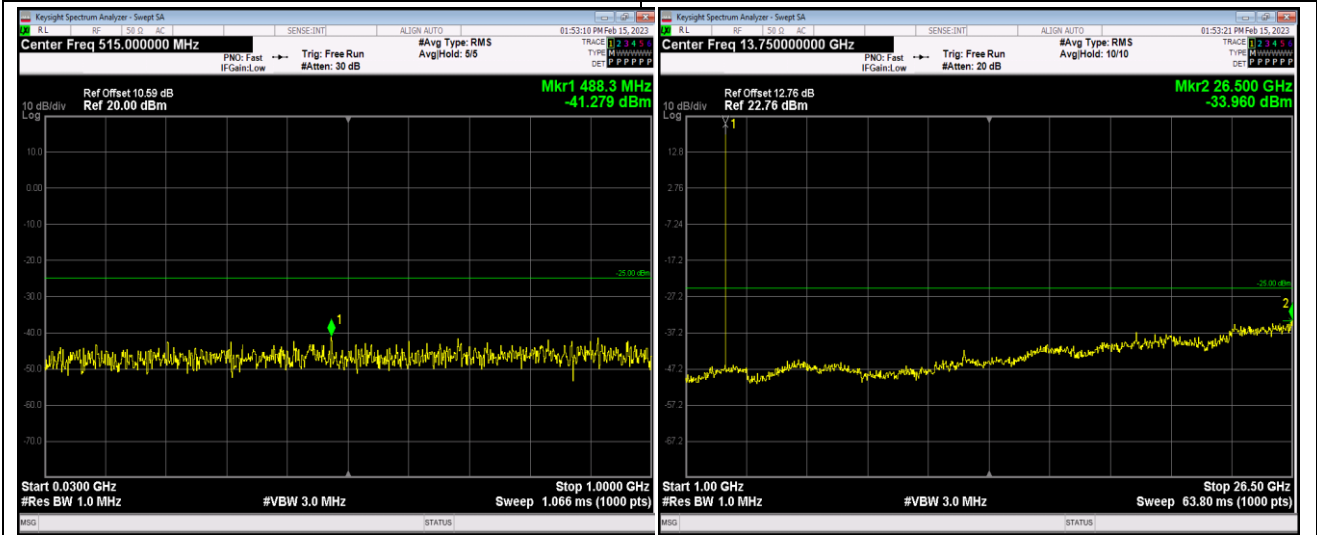






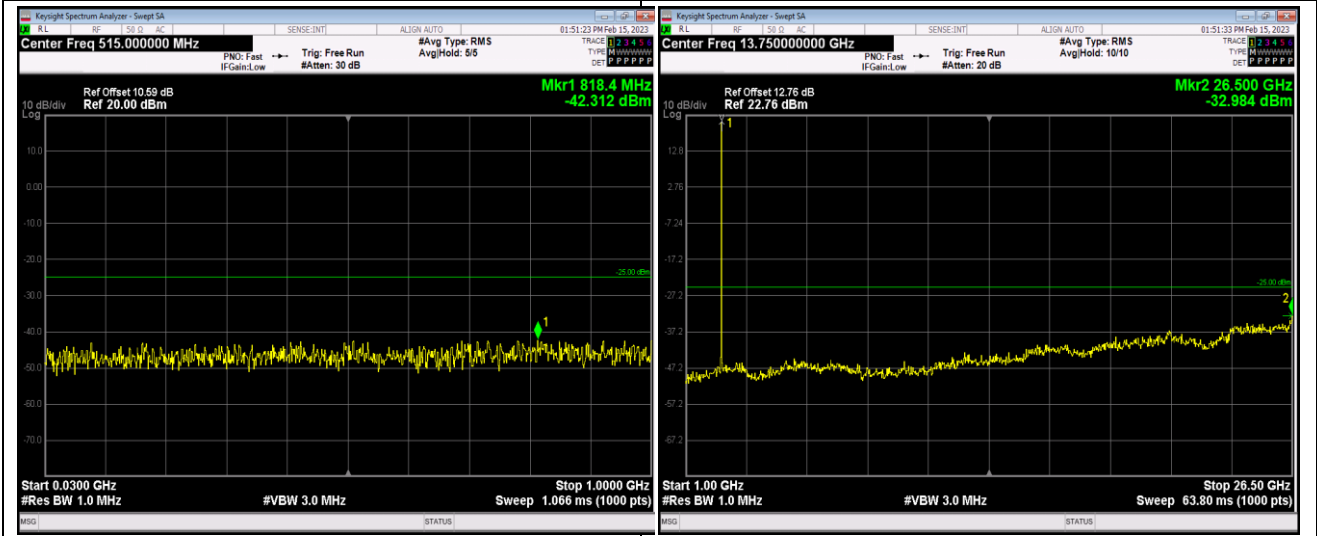
Band41-5MHz-16QAM-41565-1RB#0-Range1:30~1000MHz

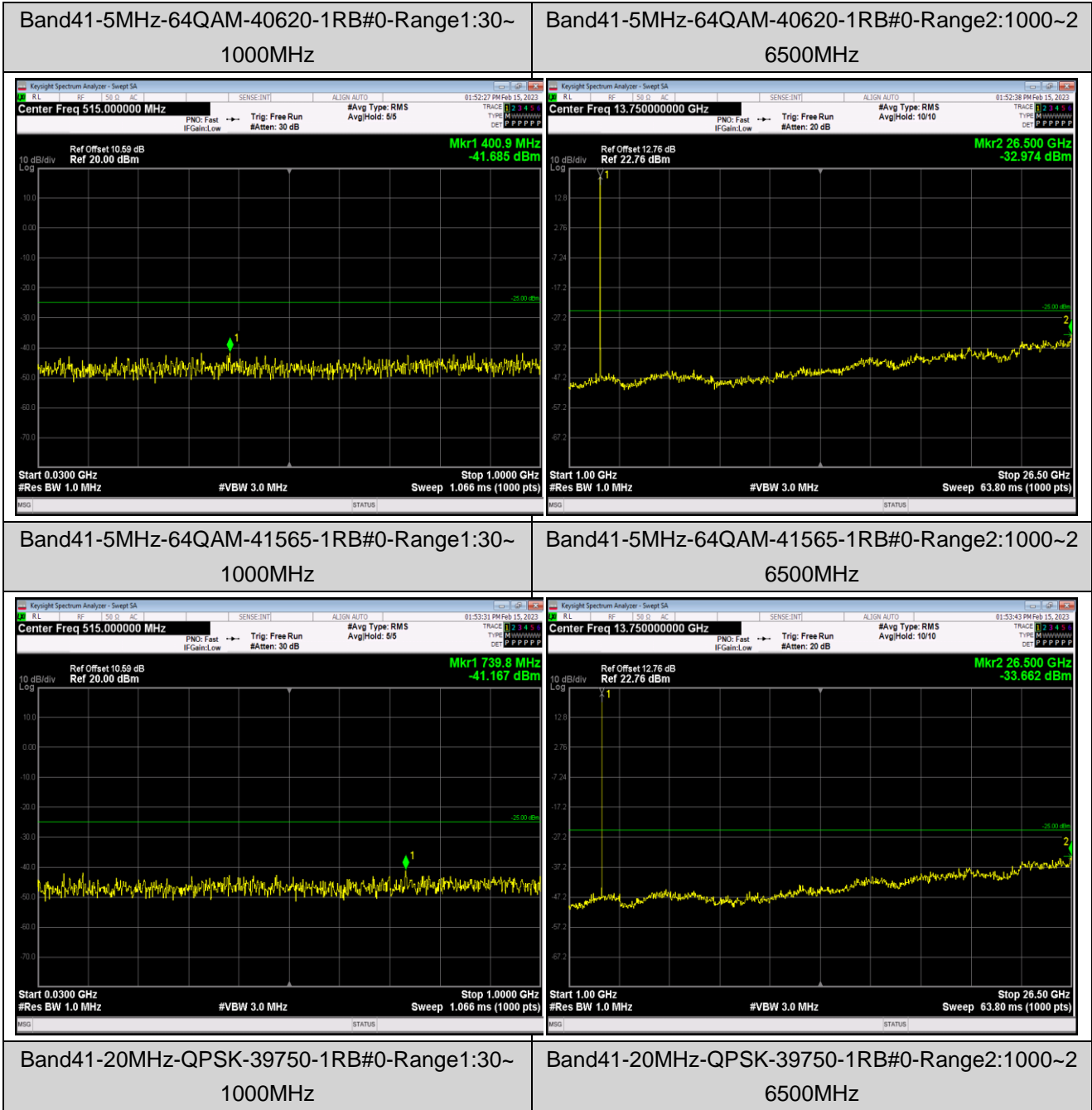
Band41-5MHz-16QAM-41565-1RB#0-Range2:1000~26500MHz

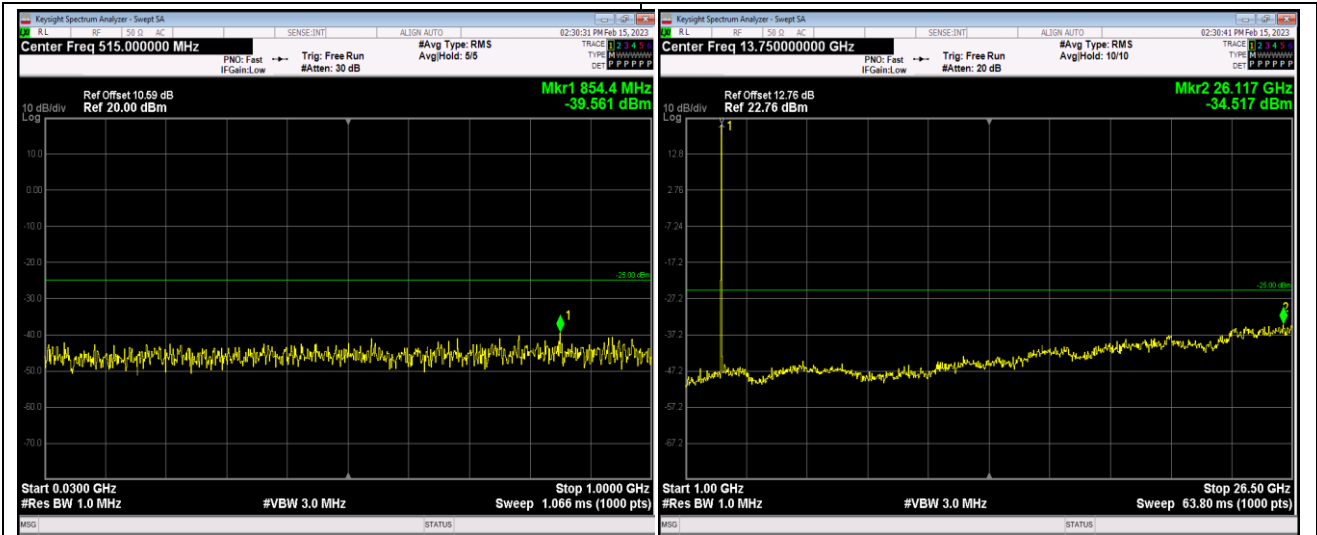


Band41-5MHz-64QAM-39675-1RB#0-Range1:30~1000MHz

Band41-5MHz-64QAM-39675-1RB#0-Range2:1000~26500MHz

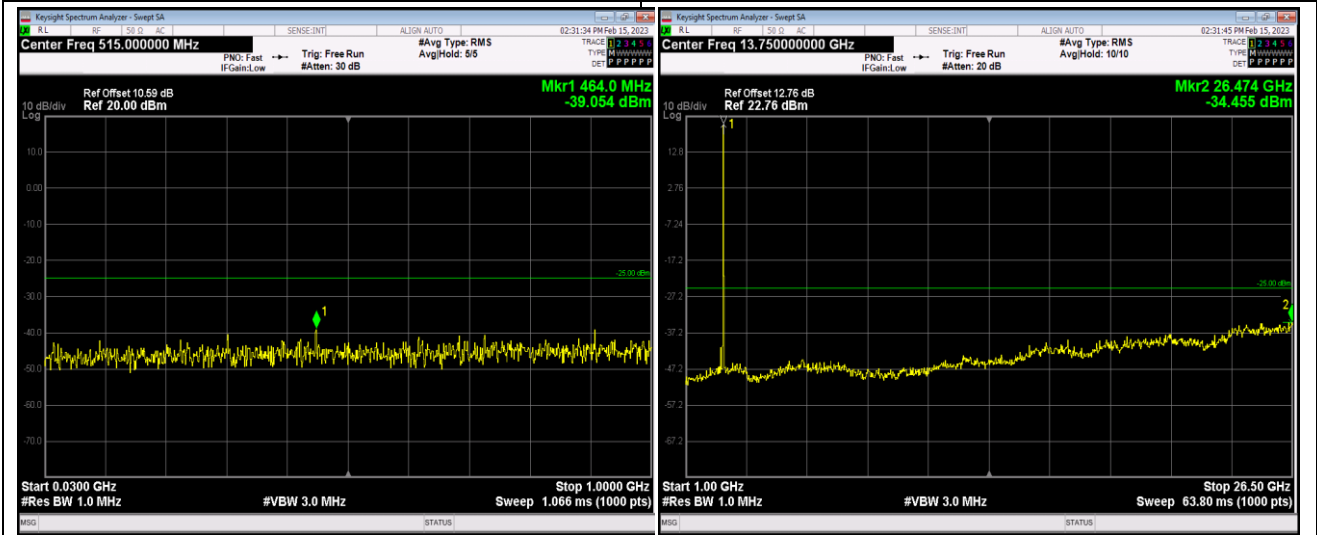






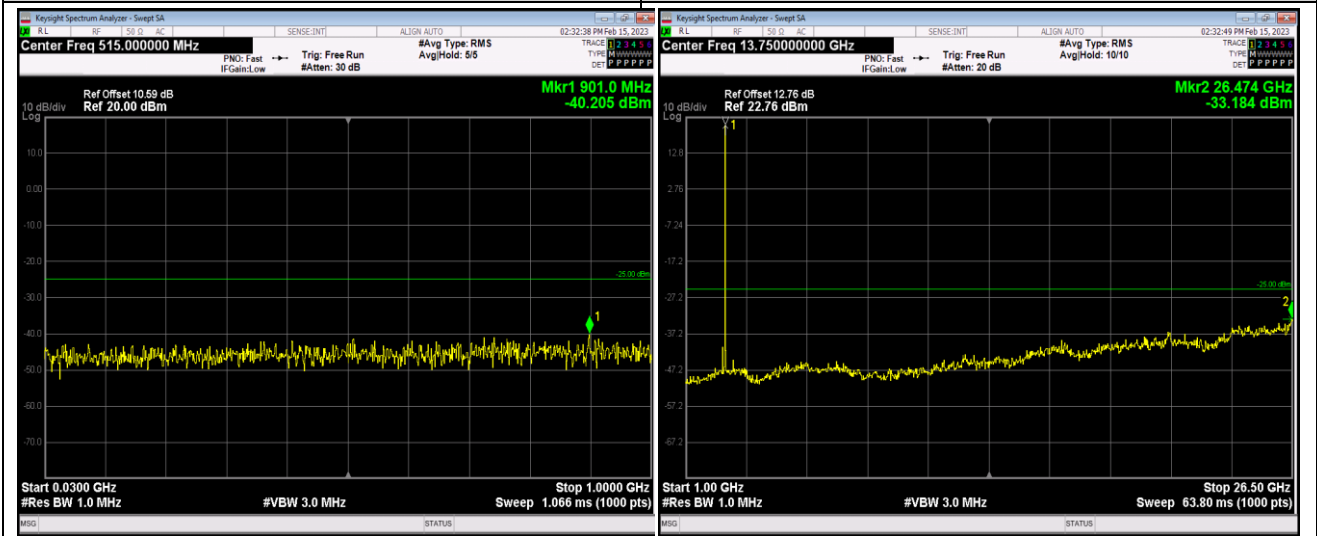
Band41-20MHz-QPSK-40620-1RB#0-Range1:30~1000MHz

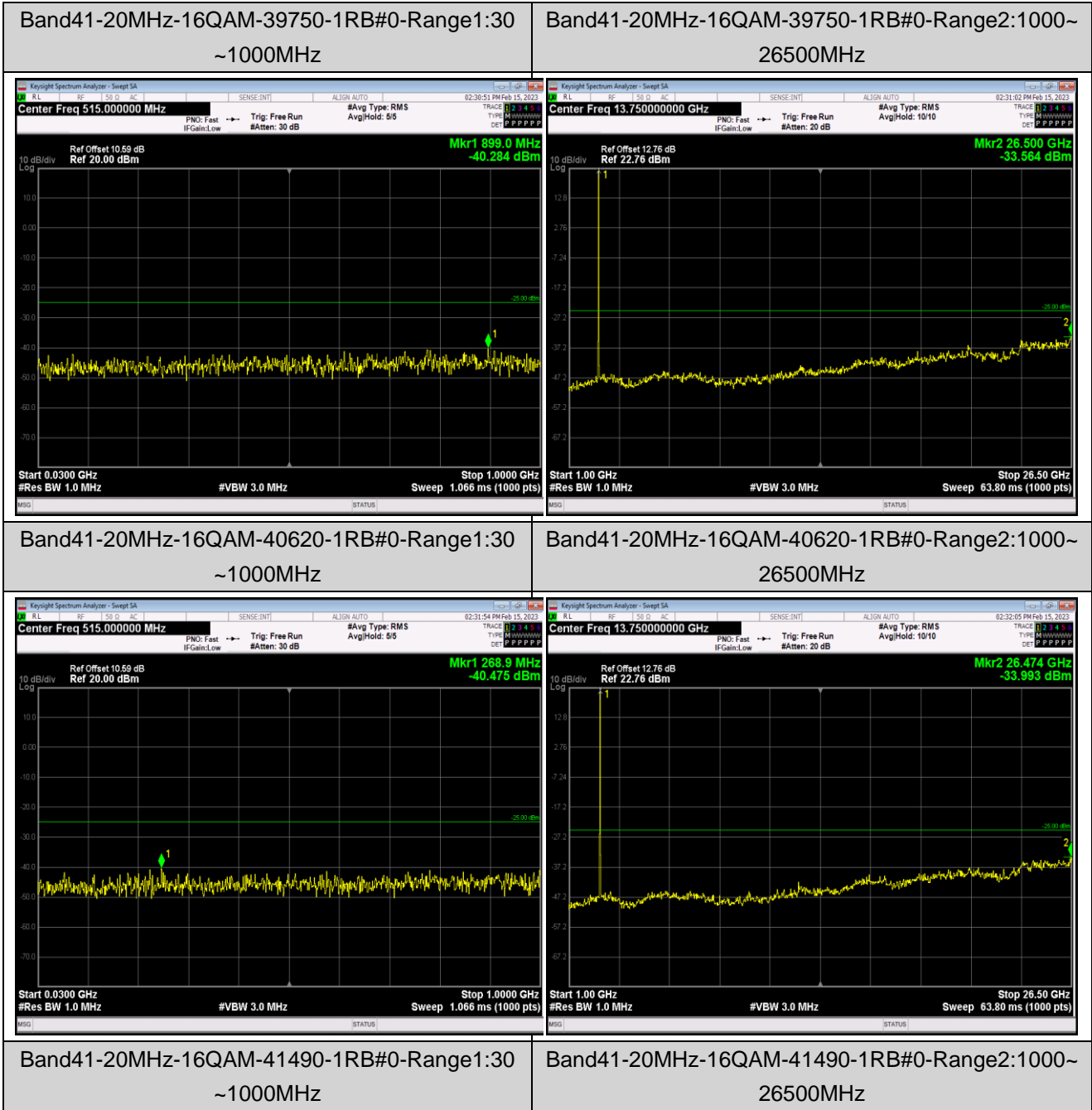
Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~2650MHz

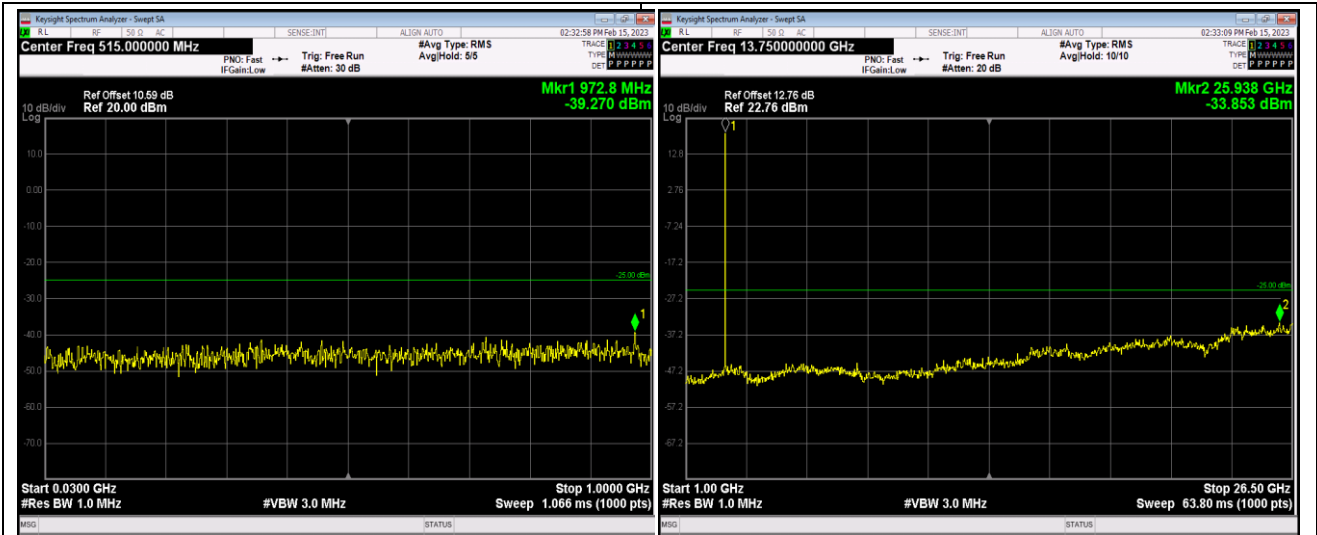


Band41-20MHz-QPSK-41490-1RB#0-Range1:30~1000MHz

Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~2650MHz







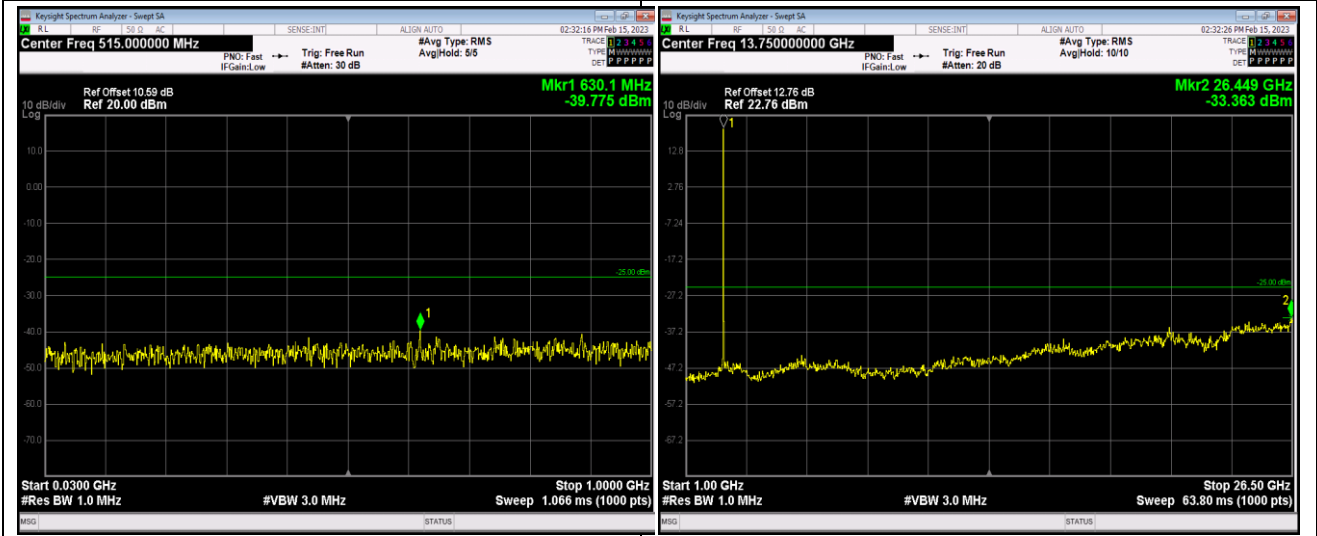
Band41-20MHz-64QAM-39750-1RB#0-Range1:30
~1000MHz

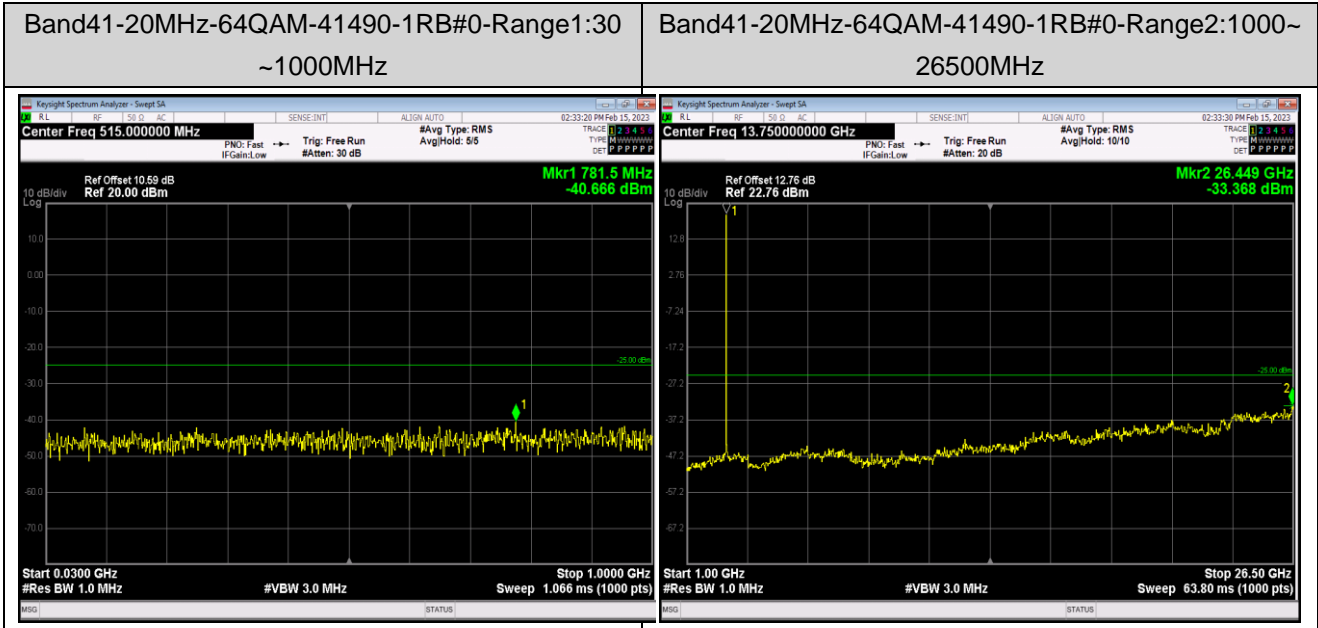
Band41-20MHz-64QAM-39750-1RB#0-Range2:1000~
26500MHz



Band41-20MHz-64QAM-40620-1RB#0-Range1:30
~1000MHz

Band41-20MHz-64QAM-40620-1RB#0-Range2:1000~
26500MHz





Appendix F: Frequency Stability

Test Result

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-2.33	-0.000919	Within authorized band for Band 7	Pass
	-20	12.06	0.004757		
	-10	-19.38	-0.007645		
	0	-4.18	-0.001649		
	10	-19.86	-0.007834		
	20	8.57	0.003381		
	30	-8.77	-0.003460		
	40	-11.57	-0.004564		
	50	-15.45	-0.006095		
16QAM					
3.87	-30	17.94	0.007077	Within authorized band for Band 7	Pass
	-20	9.27	0.003657		
	-10	-4.45	-0.001755		
	0	7.47	0.002947		
	10	-11.57	-0.004564		
	20	4.98	0.001964		
	30	-22.46	-0.008860		
	40	15.44	0.006091		
	50	3.99	0.001574		
64QAM					
3.87	-30	11.04	0.004355	Within authorized band for Band 41	Pass
	-20	-8.48	-0.003345		
	-10	-8.37	-0.003302		
	0	-17.34	-0.006840		
	10	-11.87	-0.004682		
	20	12.40	0.004892		
	30	13.25	0.005227		
	40	-10.71	-0.004225		
	50	6.09	0.002402		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	13.69	0.005400	Within authorized band for Band 7	Pass
	3.87	16.78	0.006619		
	4.45	12.47	0.004919		
16QAM					
25	3.45	-4.76	-0.001878	Within authorized band for Band 7	Pass
	3.87	-3.52	-0.001389		
	4.45	3.22	0.001270		
64QAM					
25	3.45	-3.91	-0.001542	Within authorized band for Band 7	Pass
	3.87	6.42	0.002533		
	4.45	7.71	0.003041		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40620 Frequency=2593.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	2.03	0.000783	Within authorized band for Band 41	Pass
	-20	-4.52	-0.001743		
	-10	13.36	0.005152		
	0	10.41	0.004015		
	10	8.50	0.003278		
	20	14.23	0.005488		
	30	-1.80	-0.000694		
	40	12.35	0.004763		
	50	-11.43	-0.004408		
16QAM					
3.87	-30	-7.37	-0.002842	Within authorized band for Band 41	Pass
	-20	5.11	0.001971		
	-10	5.38	0.002075		
	0	3.09	0.001192		
	10	12.19	0.004701		
	20	11.70	0.004512		
	30	6.47	0.002495		
	40	-8.28	-0.003193		
	50	10.91	0.004207		
64QAM					
3.87	-30	-9.08	-0.003502	Within authorized band for Band 41	Pass
	-20	2.32	0.000895		
	-10	10.64	0.004103		
	0	-3.88	-0.001496		
	10	-6.88	-0.002653		
	20	10.09	0.003891		
	30	-11.09	-0.004277		
	40	5.29	0.002040		
	50	12.56	0.004844		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-13.02	-0.005021	Within authorized band for Band 41	Pass
	3.87	10.71	0.004130		
	4.45	5.38	0.002075		
16QAM					
25	3.45	-12.19	-0.004701	Within authorized band for Band41	Pass
	3.87	6.62	0.002553		
	4.45	15.54	0.005993		
64QAM					
25	3.45	14.56	0.005615	Within authorized band for Band 7	Pass
	3.87	8.18	0.003155		
	4.45	2.73	0.001053		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS

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

Test Graphs

