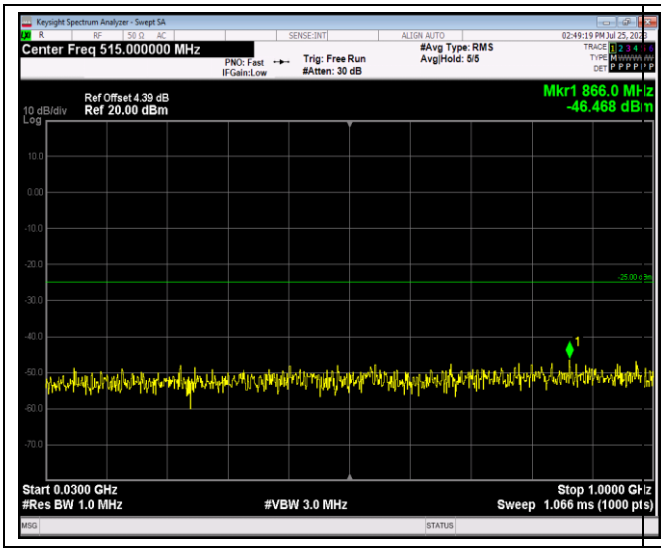
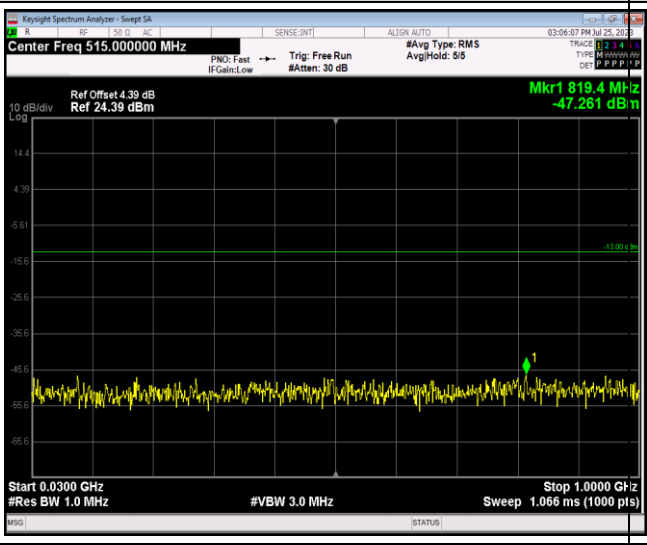


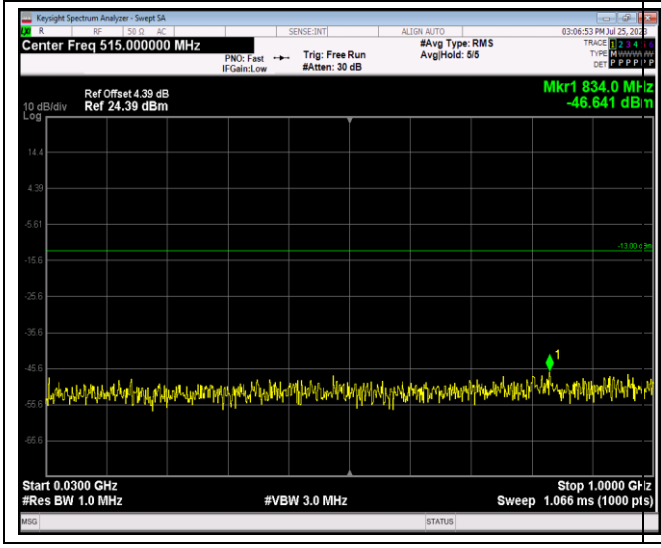
Band66-1.4MHz-QPSK-131979-1RB#0-Range1:30 ~1000MHz

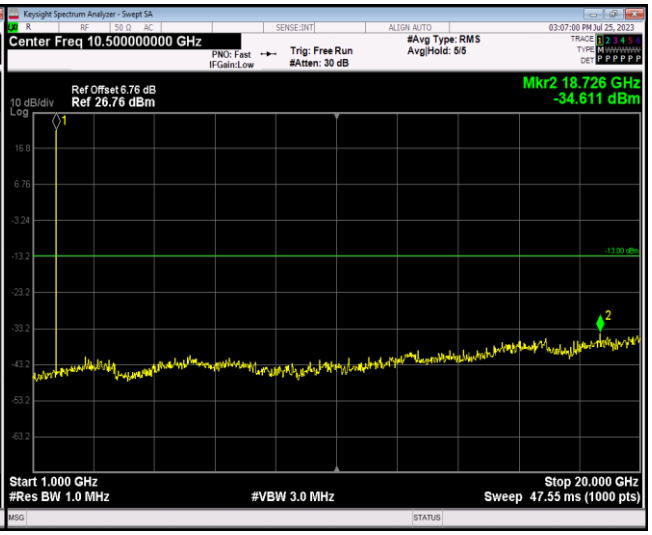
Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000 ~20000MHz

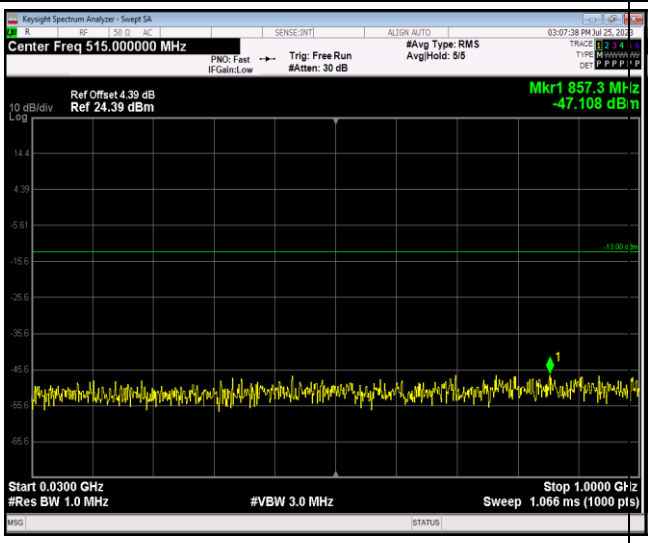
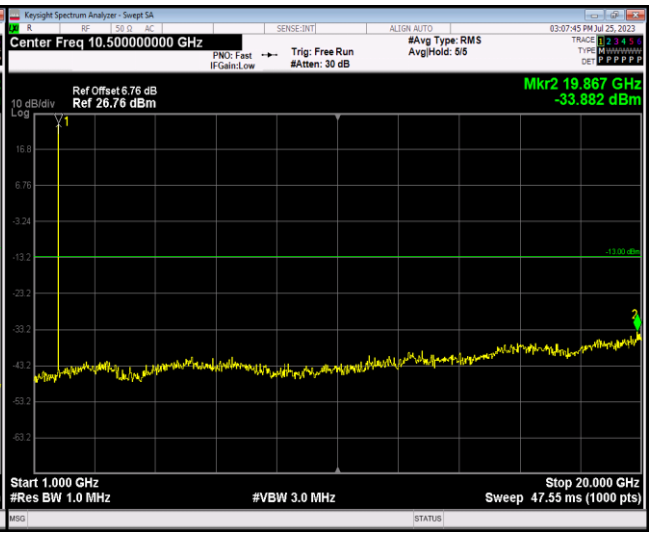
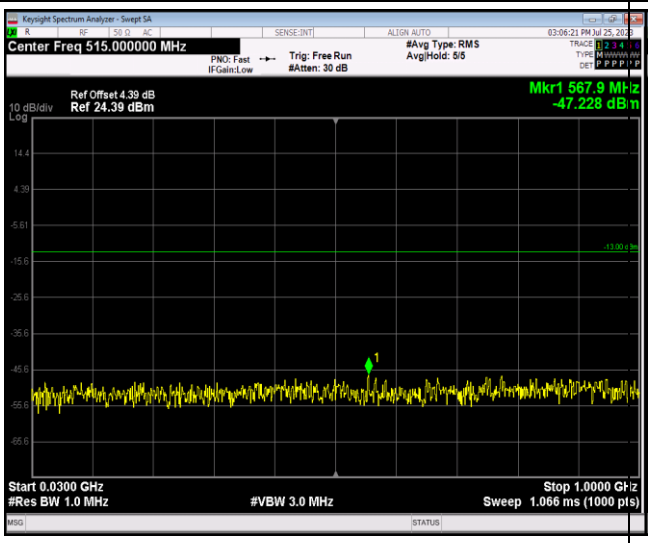
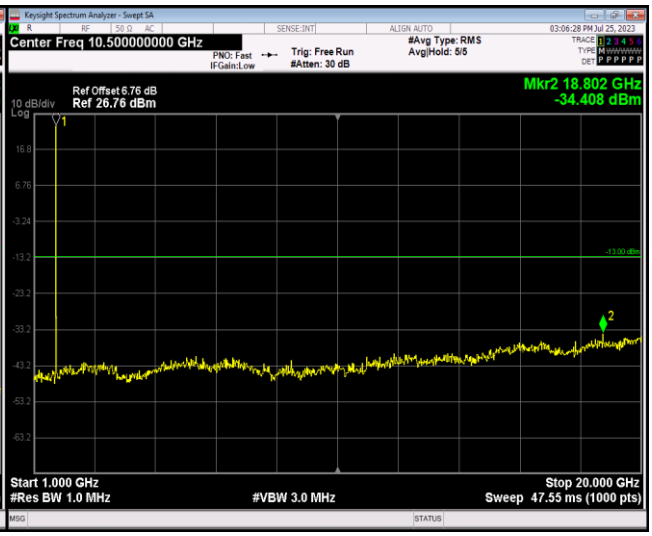


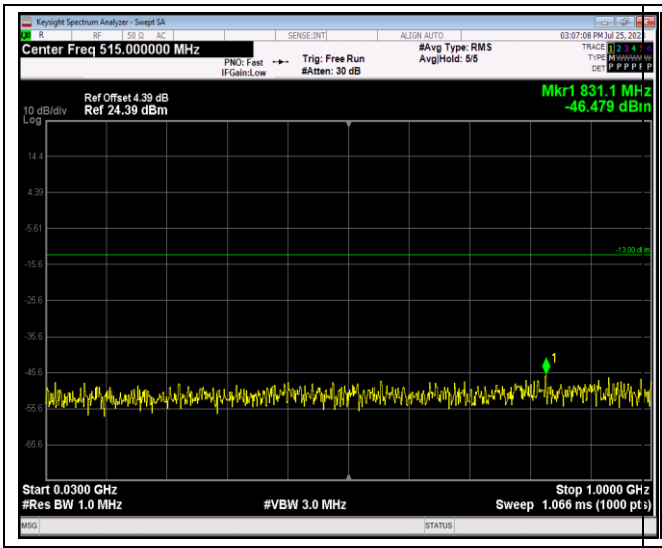
Band66-1.4MHz-QPSK-132322-1RB#0-Range1:30 ~1000MHz

Band66-1.4MHz-QPSK-132322-1RB#0-Range2:1000 ~20000MHz

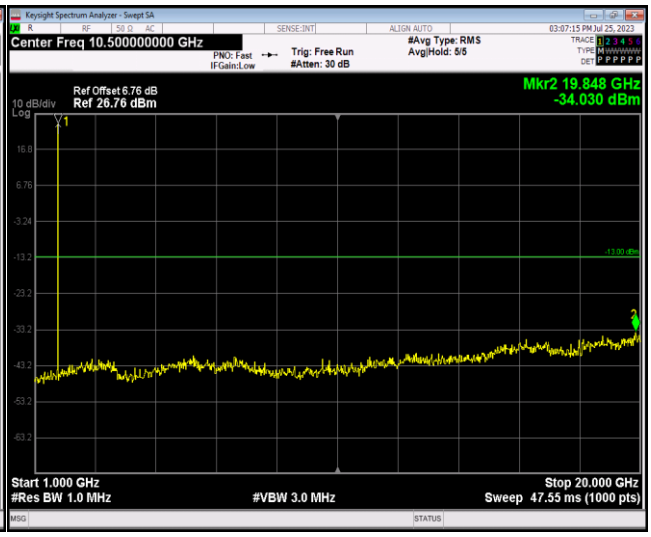




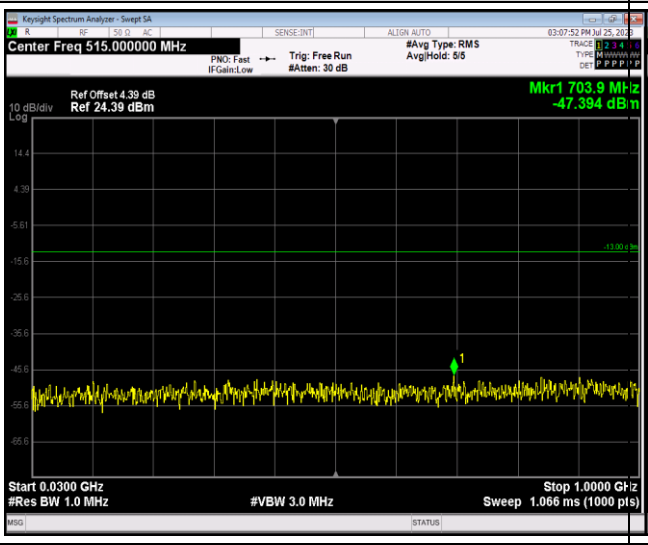
Band66-1.4MHz-QPSK-132665-1RB#0-Range1:30~1000MHz	Band66-1.4MHz-QPSK-132665-1RB#0-Range2:1000~20000MHz
	
Band66-1.4MHz-16QAM-131979-1RB#0-Range1:30~1000MHz	Band66-1.4MHz-16QAM-131979-1RB#0-Range2:1000~20000MHz
	
Band66-1.4MHz-16QAM-132322-1RB#0-Range1:30~1000MHz	Band66-1.4MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz



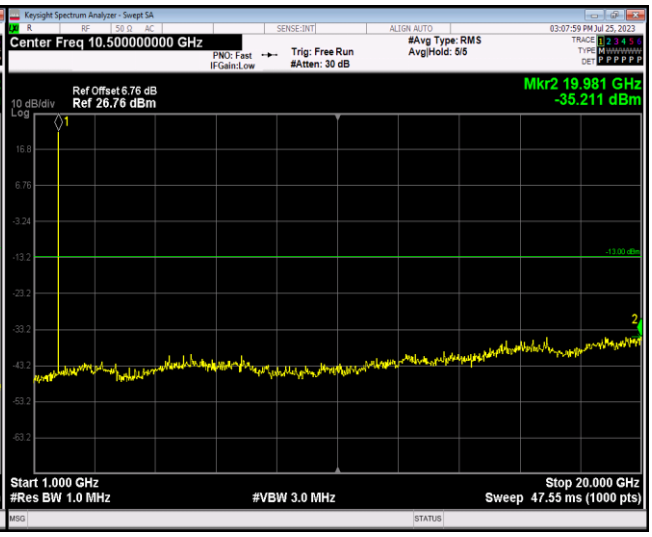
Band66-1.4MHz-16QAM-132665-1RB#0-Range1:30~1000MHz



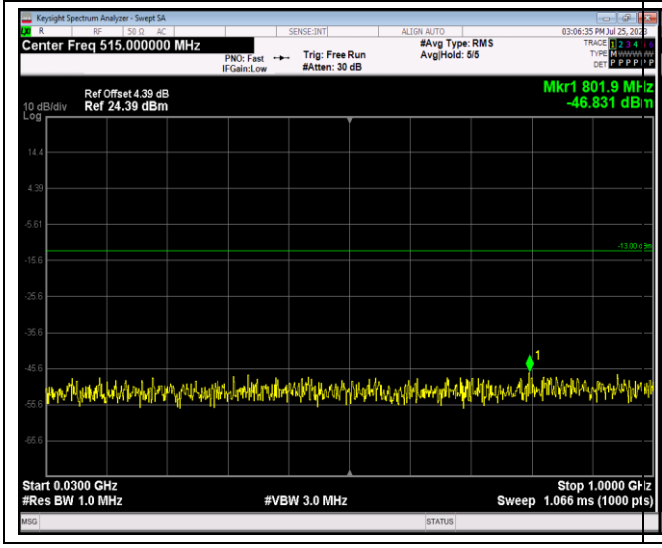
Band66-1.4MHz-16QAM-132665-1RB#0-Range2:1000~20000MHz

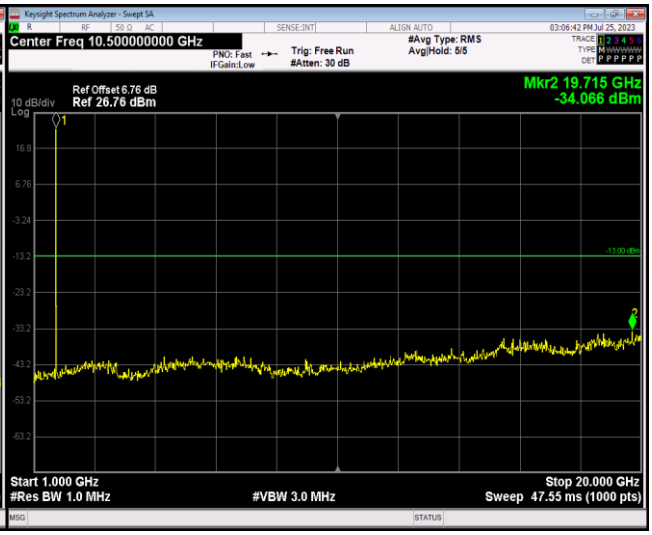


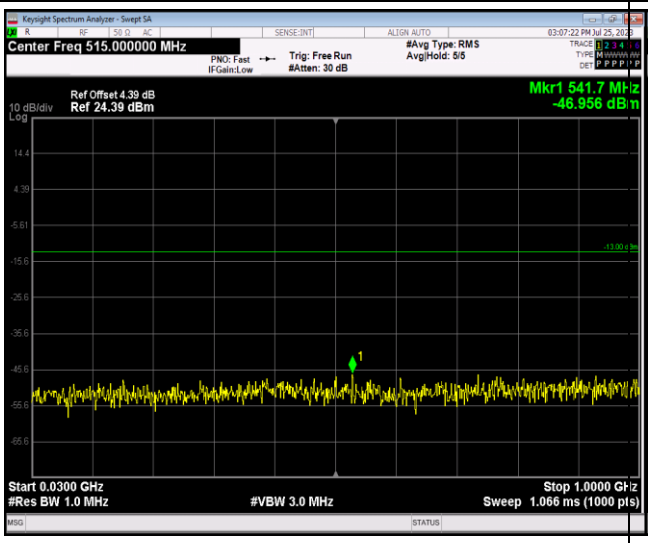
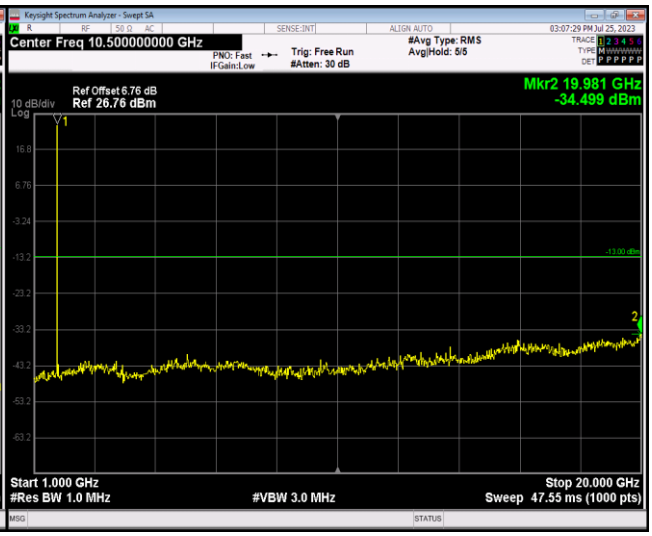
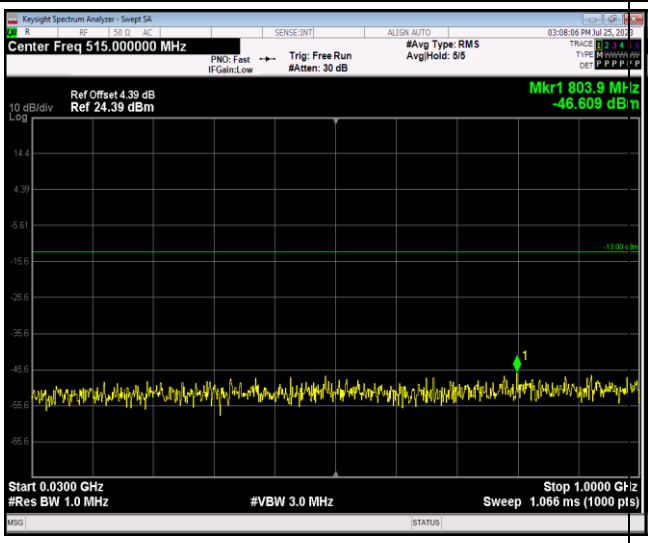
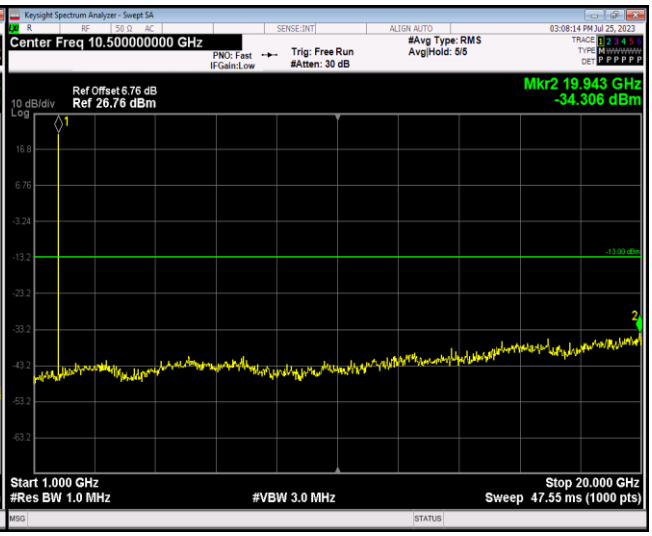
Band66-1.4MHz-64QAM-131979-1RB#0-Range1:30~1000MHz

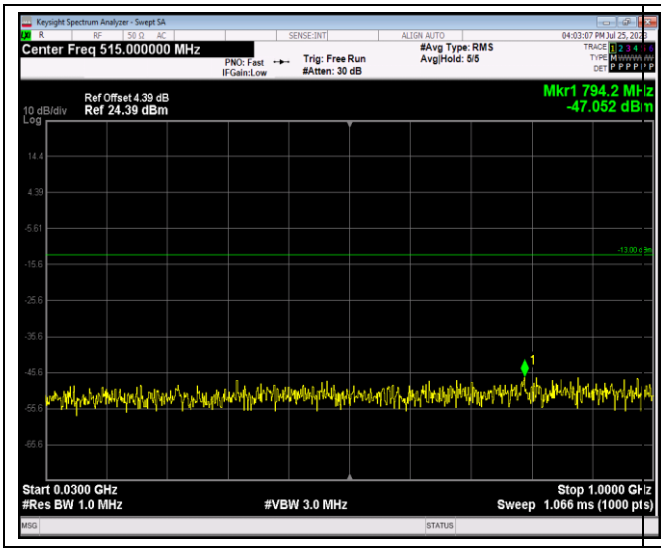


Band66-1.4MHz-64QAM-131979-1RB#0-Range2:1000~20000MHz

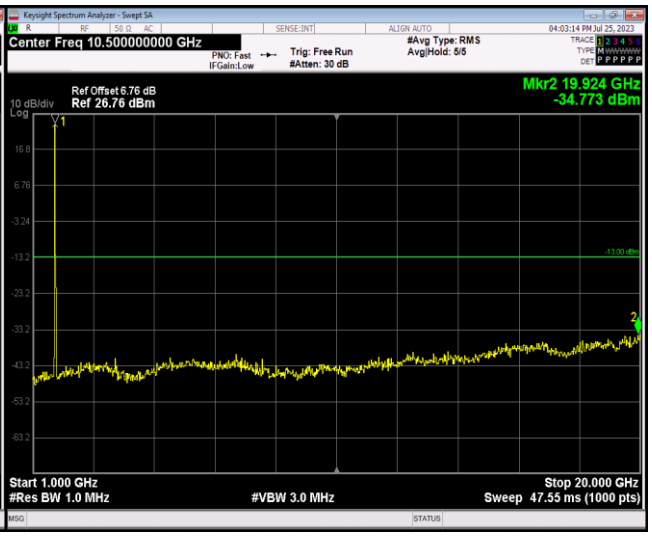




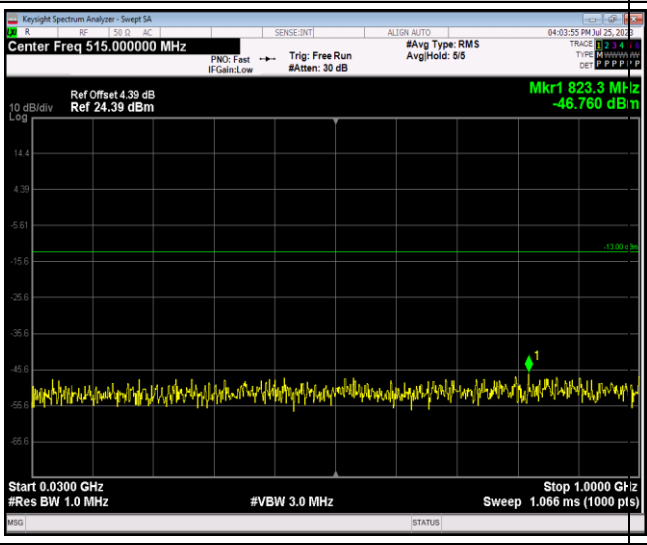
Band66-1.4MHz-64QAM-132322-1RB#0-Range1:30~1000MHz	Band66-1.4MHz-64QAM-132322-1RB#0-Range2:1000~20000MHz
	
Band66-1.4MHz-64QAM-132665-1RB#0-Range1:30~1000MHz	Band66-1.4MHz-64QAM-132665-1RB#0-Range2:1000~20000MHz
	
Band66-20MHz-QPSK-132072-1RB#0-Range1:30~1000MHz	Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz



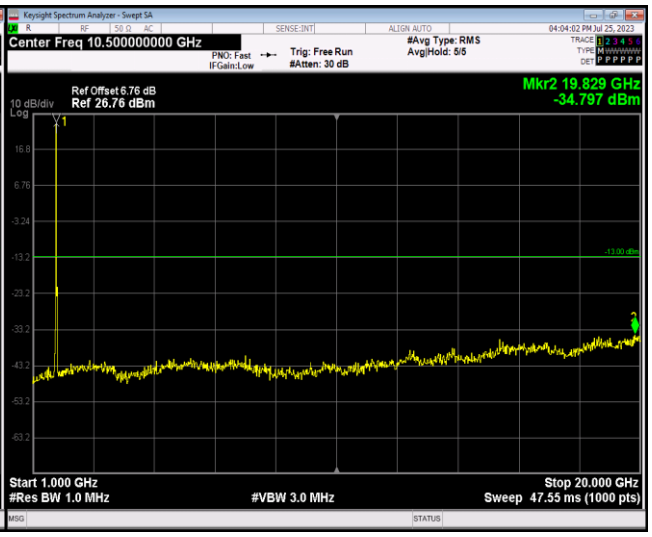
Band66-20MHz-QPSK-132322-1RB#0-Range1:30 ~1000MHz



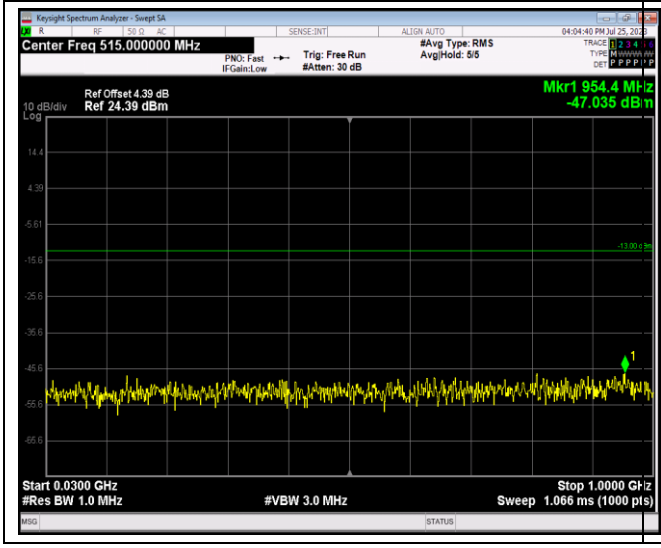
Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~ 20000MHz

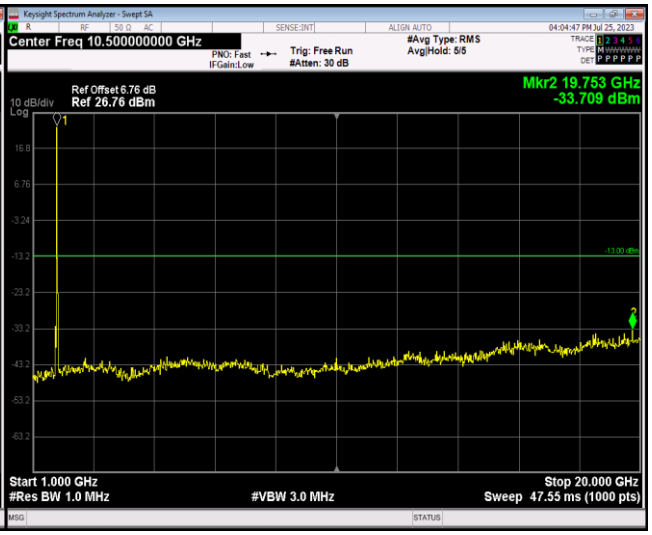


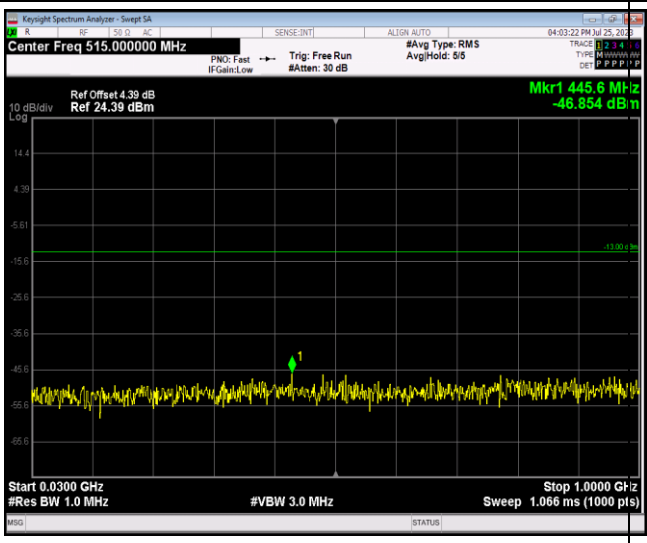
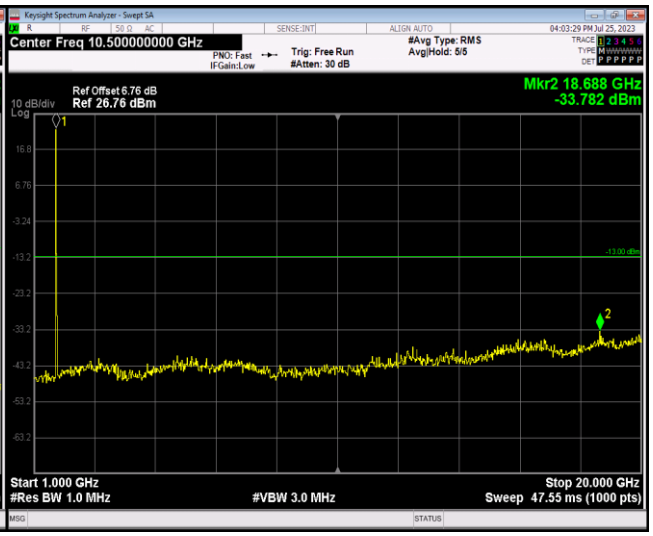
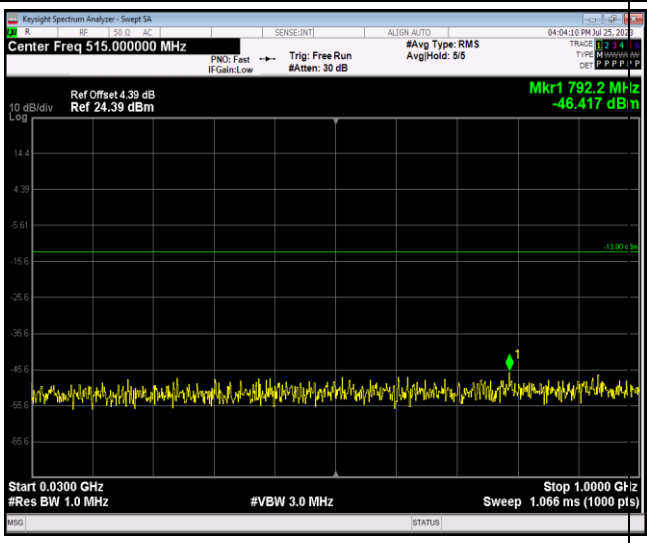
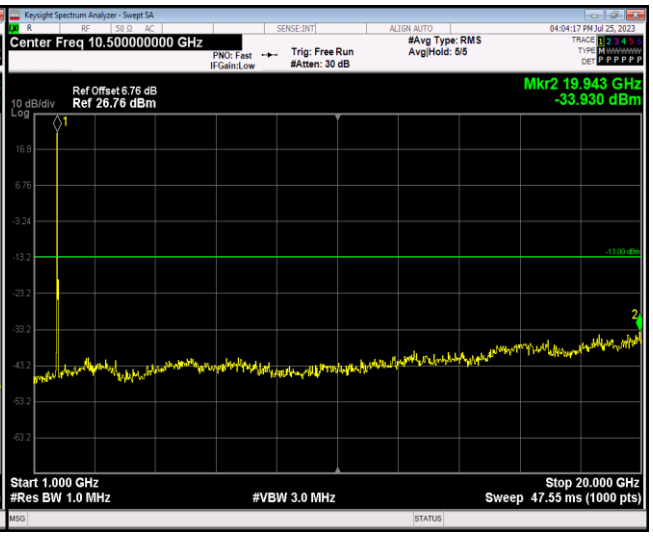
Band66-20MHz-QPSK-132572-1RB#0-Range1:30 ~1000MHz

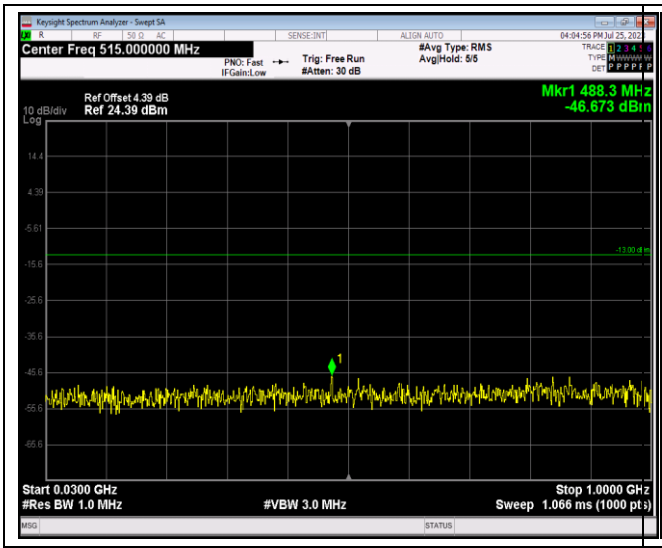


Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~ 20000MHz

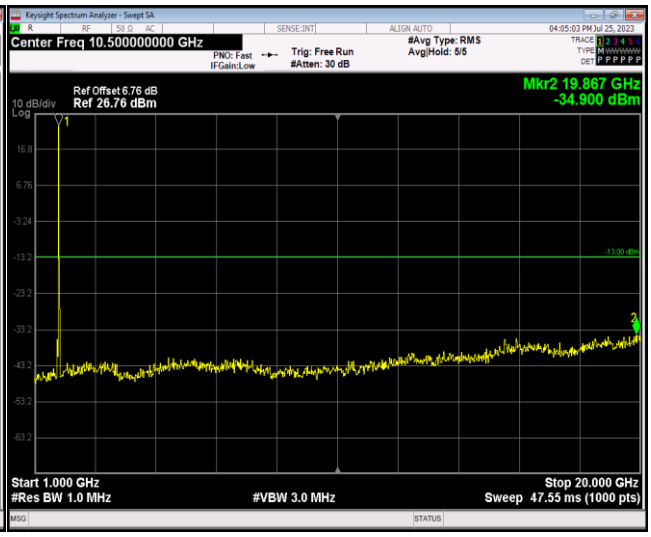




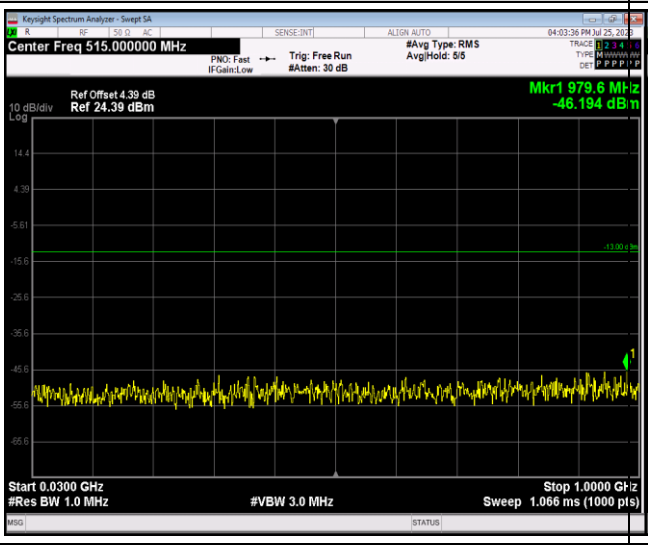
Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz	Band66-20MHz-16QAM-132072-1RB#0-Range2:1000~20000MHz
	
Band66-20MHz-16QAM-132322-1RB#0-Range1:30~1000MHz	Band66-20MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz
	
Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1000MHz	Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~20000MHz



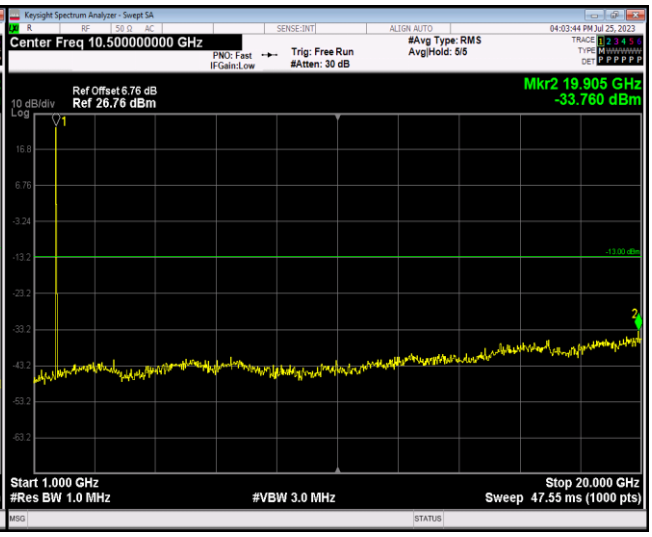
Band66-20MHz-64QAM-132072-1RB#0-Range1:30~1000MHz



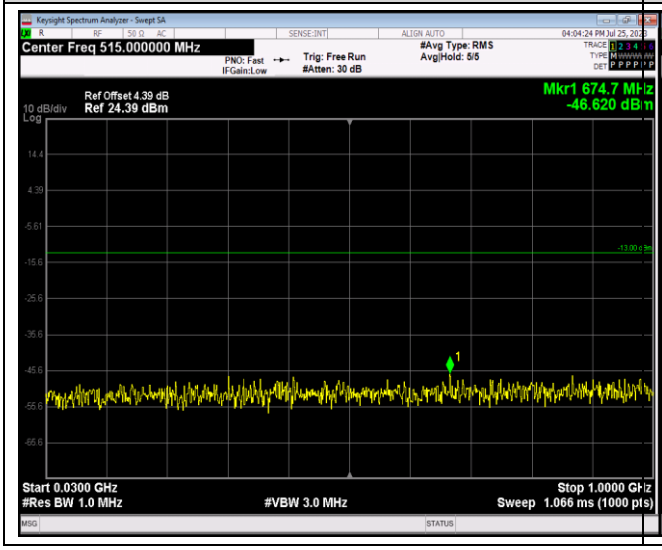
Band66-20MHz-64QAM-132072-1RB#0-Range2:1000~20000MHz

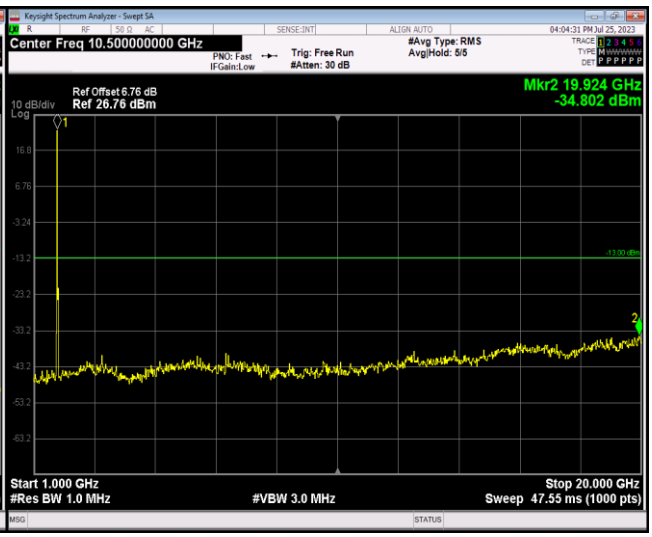


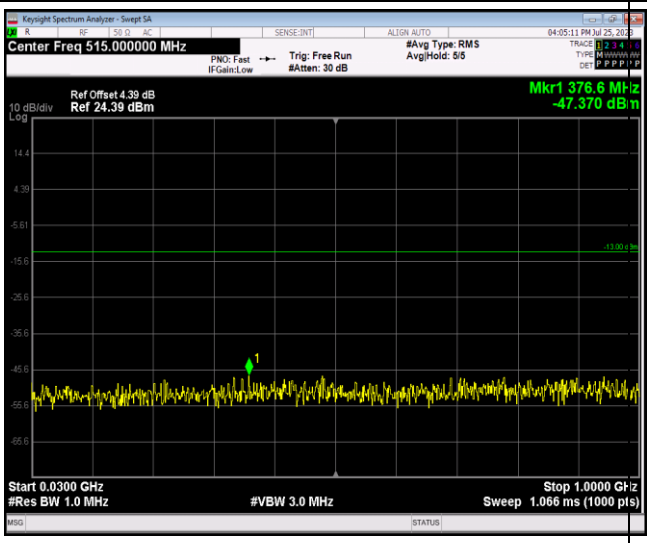
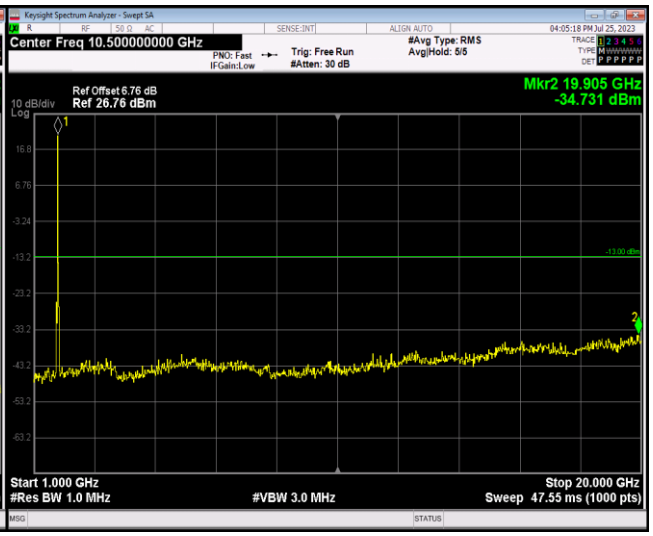
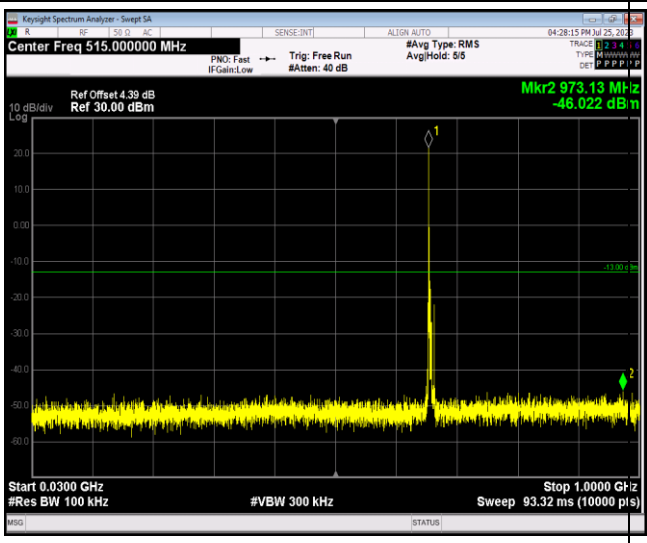
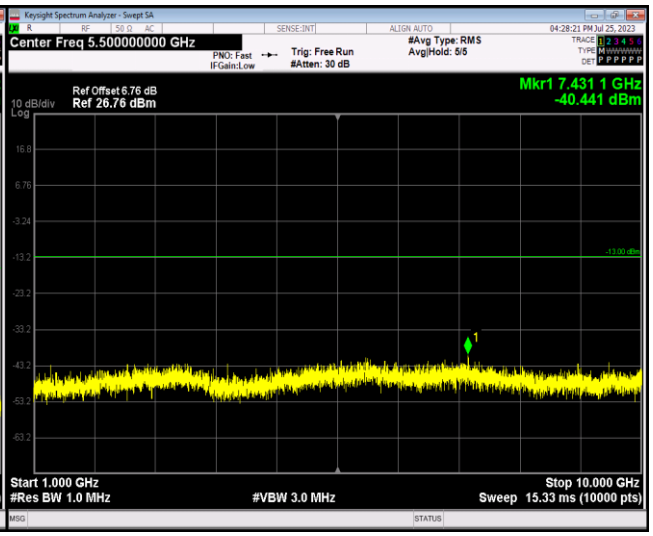
Band66-20MHz-64QAM-132322-1RB#0-Range1:30~1000MHz

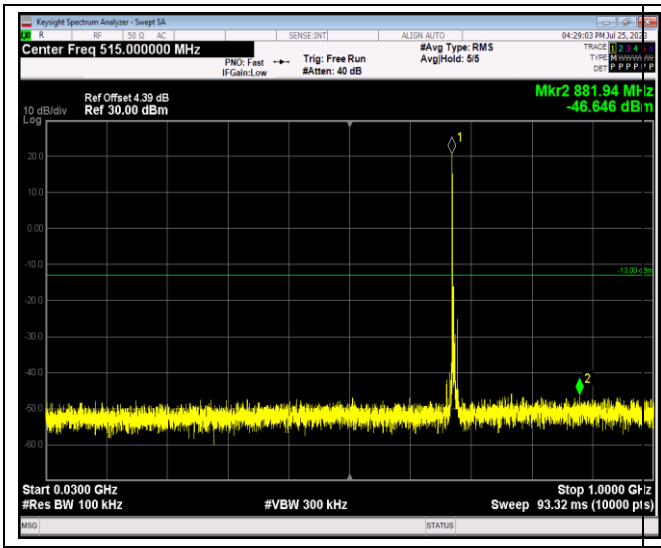


Band66-20MHz-64QAM-132322-1RB#0-Range2:1000~20000MHz

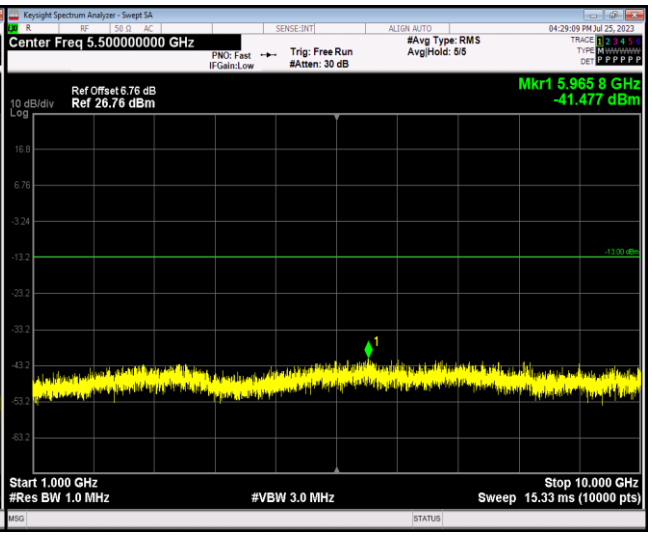




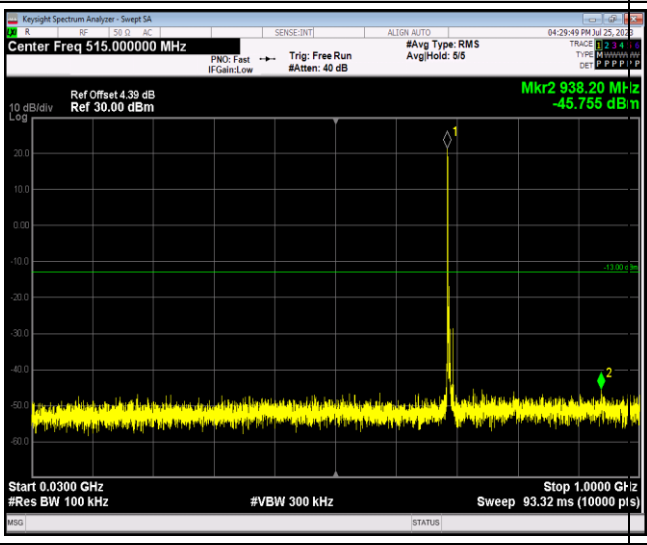
Band66-20MHz-64QAM-132572-1RB#0-Range1:30~1000MHz	Band66-20MHz-64QAM-132572-1RB#0-Range2:1000~20000MHz
	
Band71-5MHz-QPSK-133147-1RB#0-Range1:30~1000MHz	Band71-5MHz-QPSK-133147-1RB#0-Range2:1000~10000MHz
	
Band71-5MHz-QPSK-133297-1RB#0-Range1:30~1000MHz	Band71-5MHz-QPSK-133297-1RB#0-Range2:1000~10000MHz



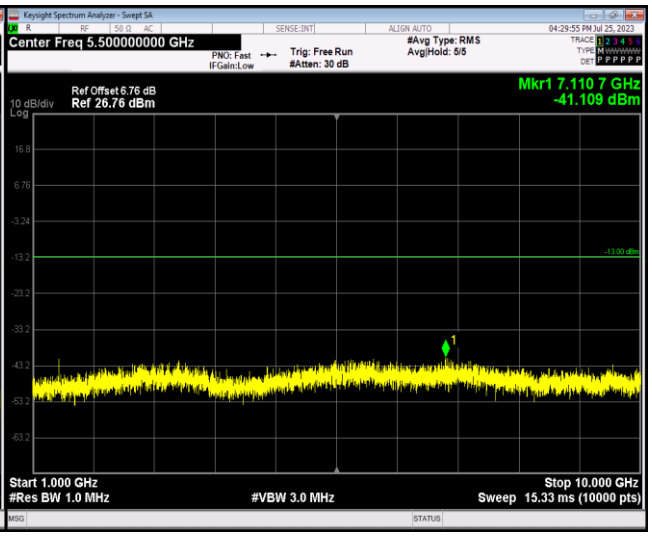
Band71-5MHz-QPSK-133447-1RB#0-Range1:30~1000MHz



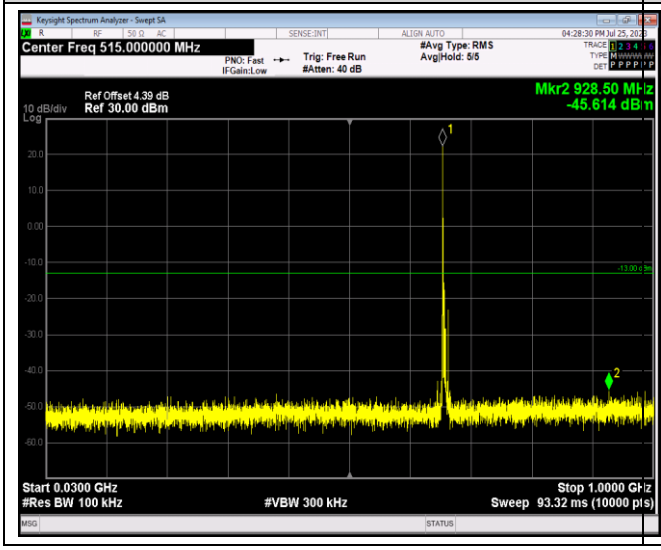
Band71-5MHz-QPSK-133447-1RB#0-Range2:1000~10000MHz

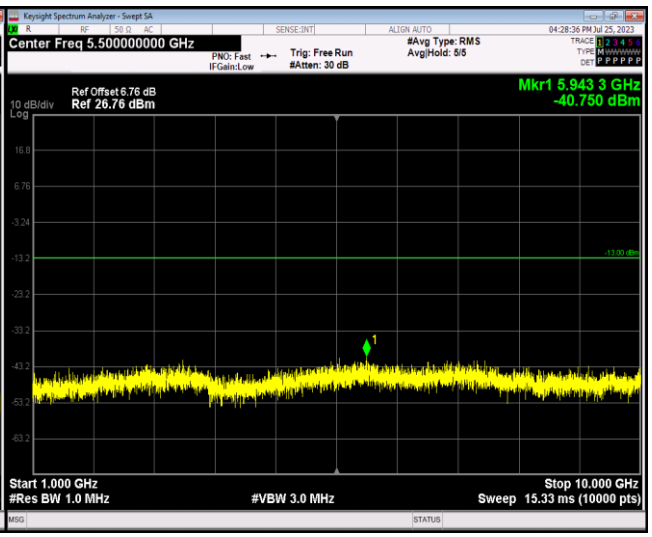


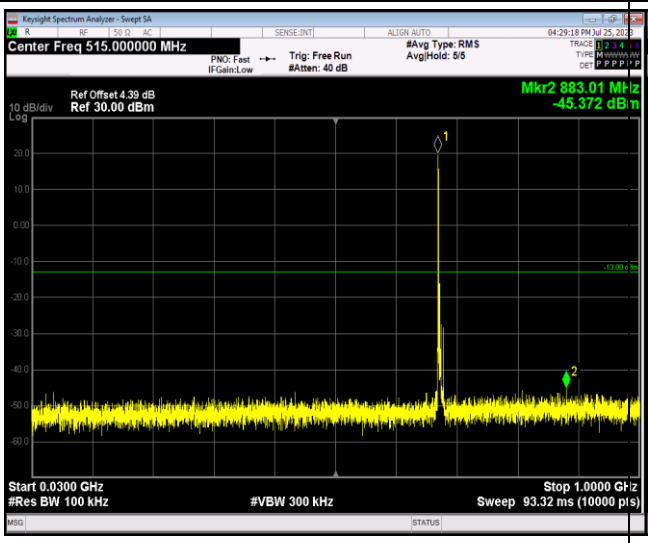
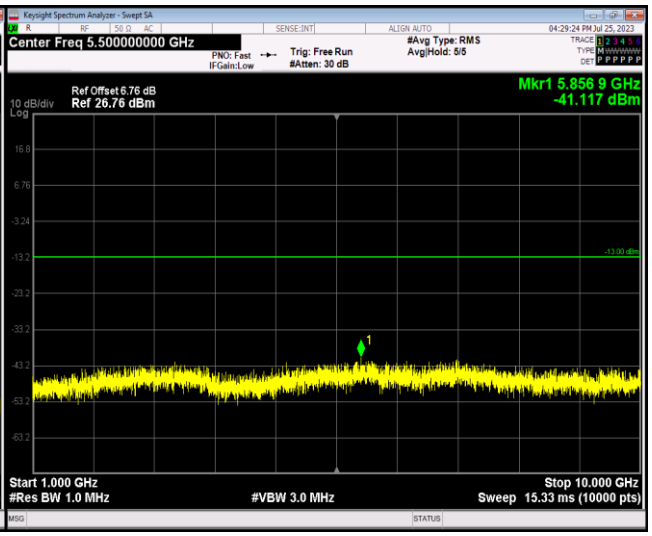
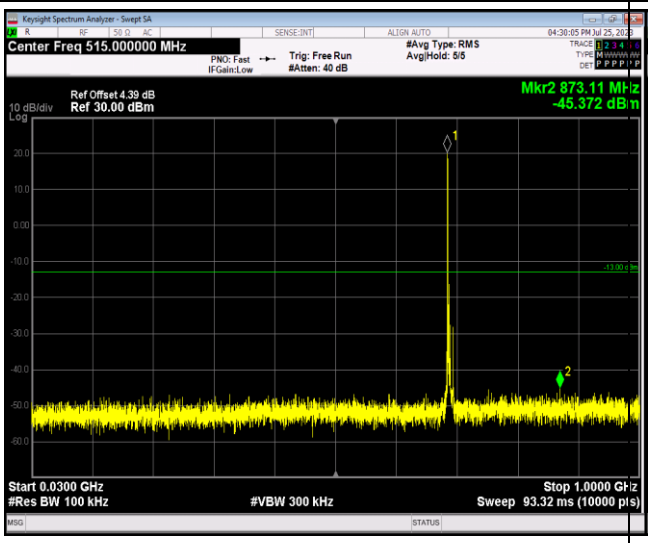
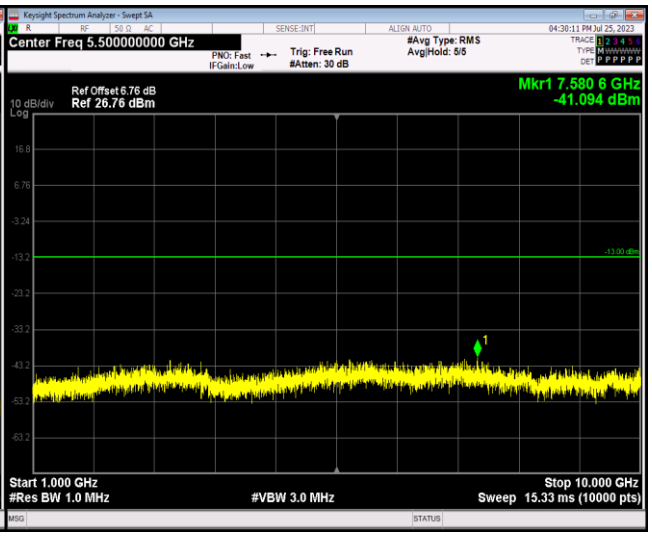
Band71-5MHz-16QAM-133147-1RB#0-Range1:30~1000MHz

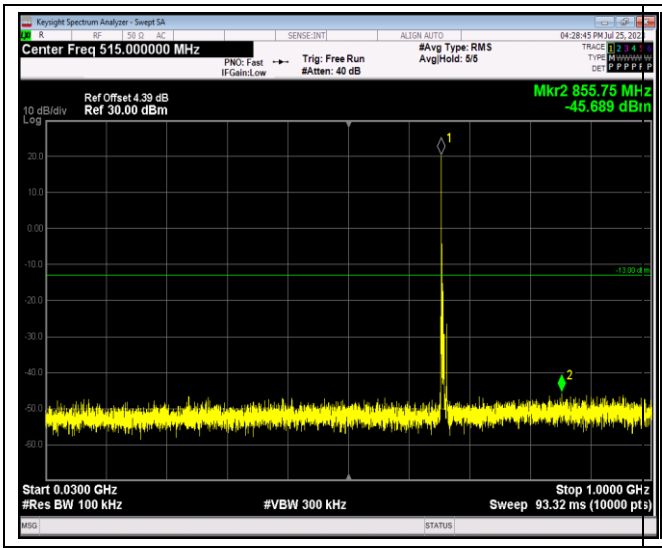


Band71-5MHz-16QAM-133147-1RB#0-Range2:1000~10000MHz

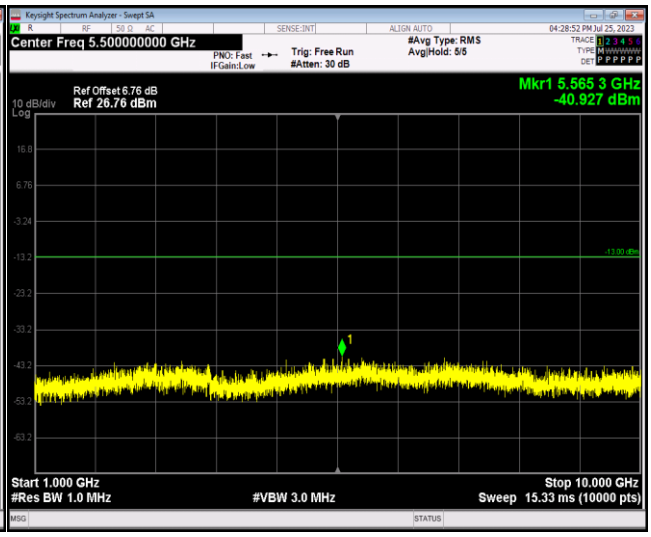




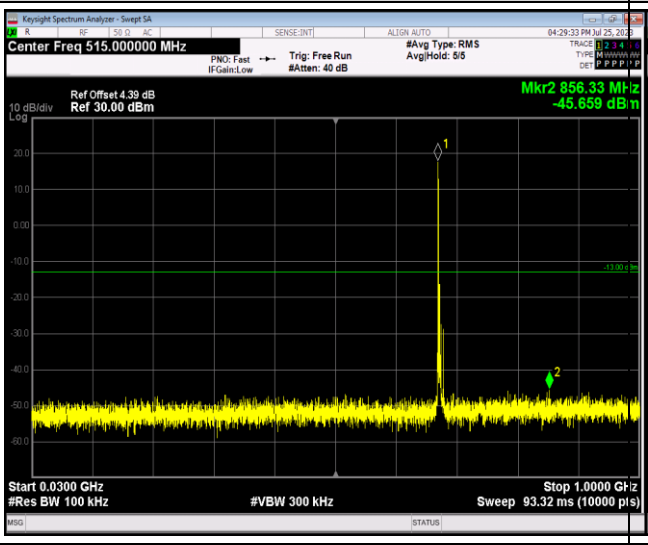
Band71-5MHz-16QAM-133297-1RB#0-Range1:30~1000MHz	Band71-5MHz-16QAM-133297-1RB#0-Range2:1000~10000MHz
	
Band71-5MHz-16QAM-133447-1RB#0-Range1:30~1000MHz	Band71-5MHz-16QAM-133447-1RB#0-Range2:1000~10000MHz
	
Band71-5MHz-64QAM-133147-1RB#0-Range1:30~1000MHz	Band71-5MHz-64QAM-133147-1RB#0-Range2:1000~10000MHz



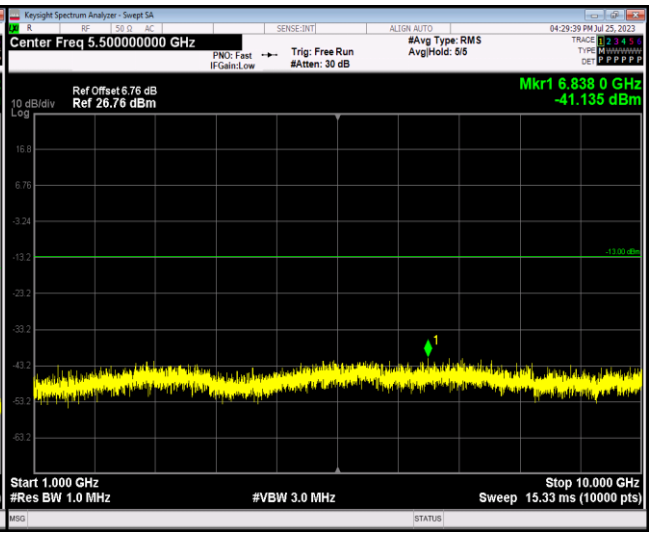
Band71-5MHz-64QAM-133297-1RB#0-Range1:30 ~1000MHz



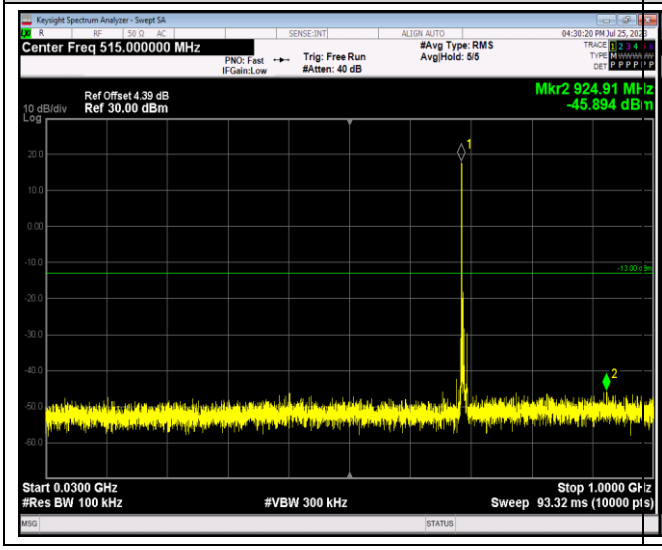
Band71-5MHz-64QAM-133297-1RB#0-Range2:1000~10000MHz

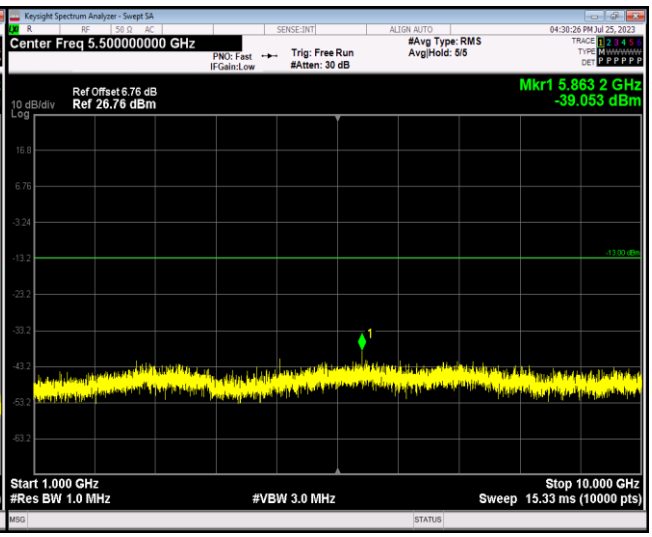


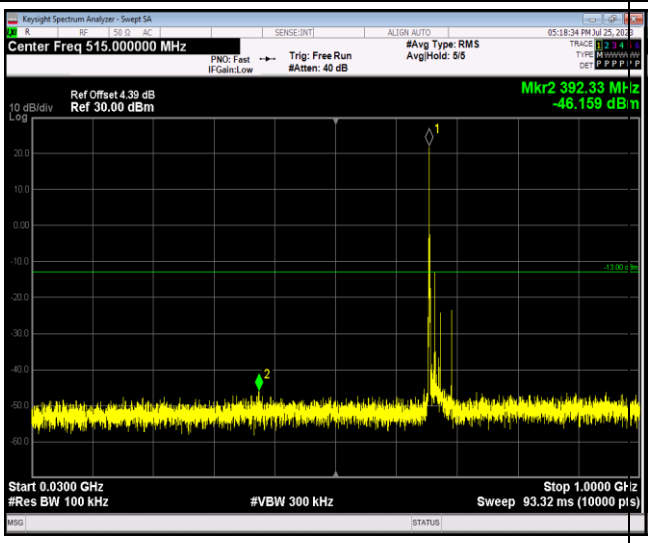
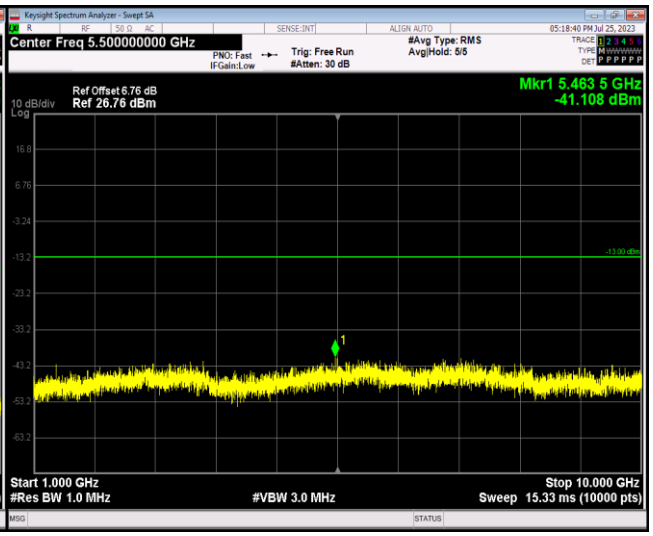
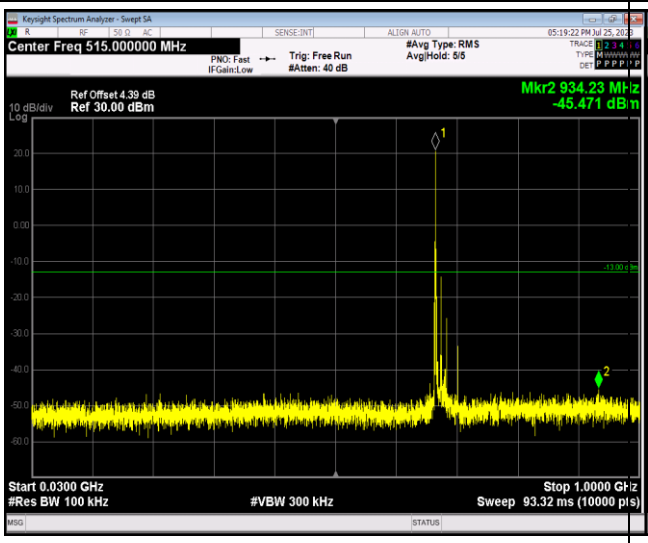
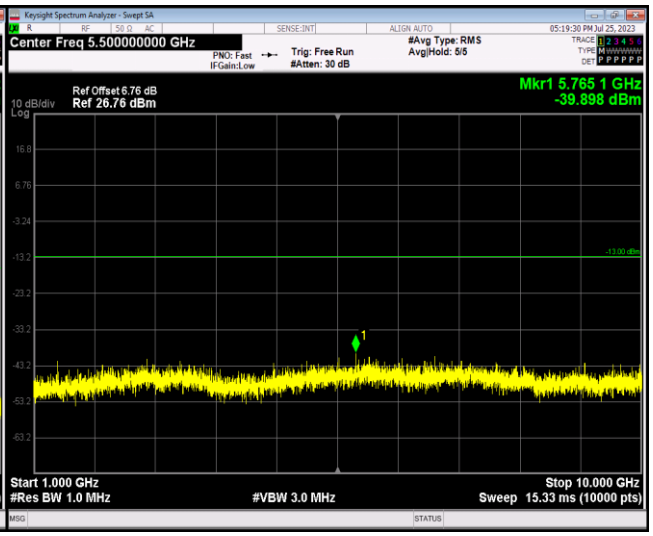
Band71-5MHz-64QAM-133447-1RB#0-Range1:30 ~1000MHz

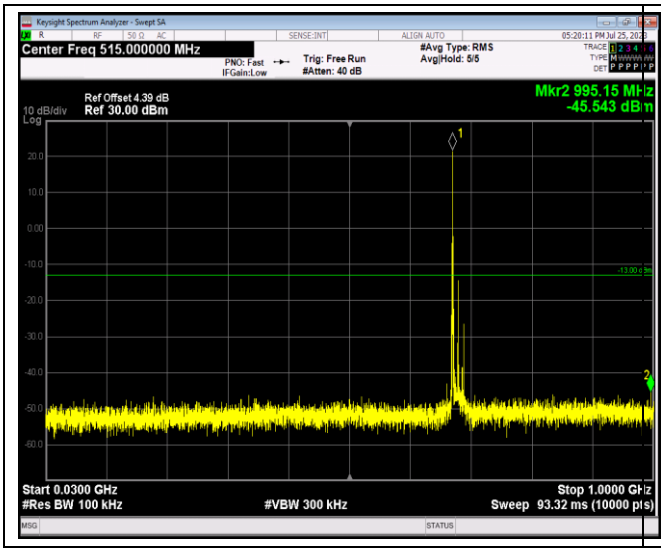


Band71-5MHz-64QAM-133447-1RB#0-Range2:1000~10000MHz

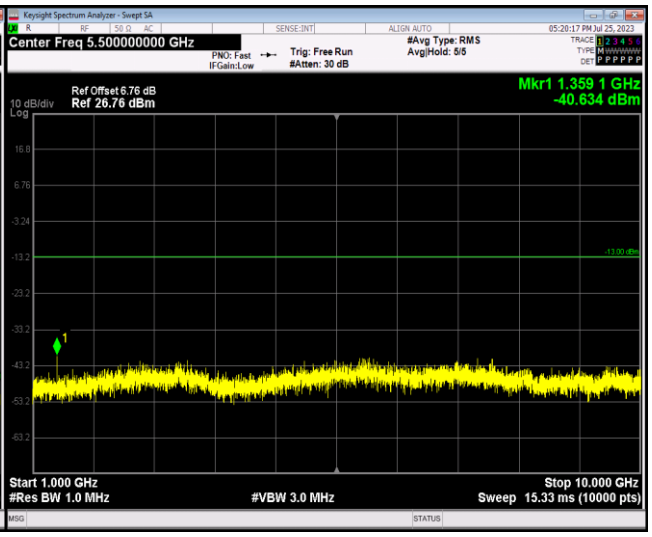




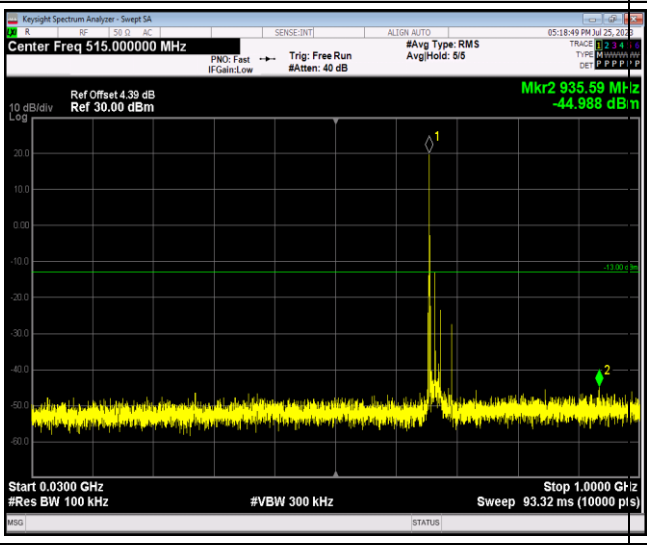
Band71-20MHz-QPSK-133222-1RB#0-Range1:30~1000MHz	Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz
	
Band71-20MHz-QPSK-133322-1RB#0-Range1:30~1000MHz	Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz
	
Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz	Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz



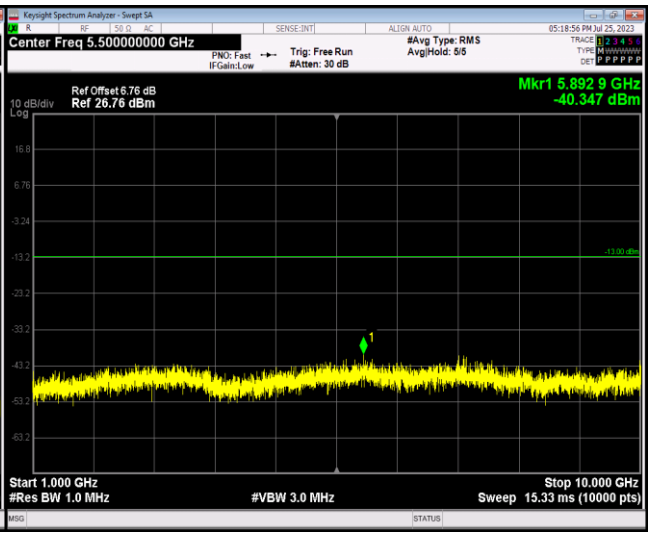
Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



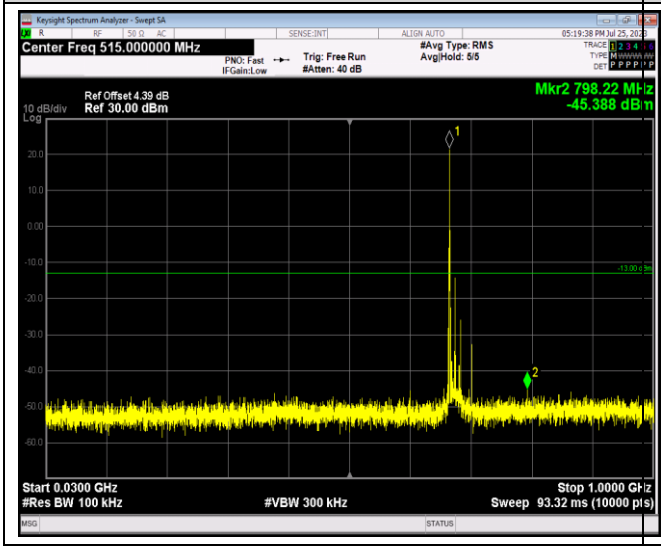
Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz

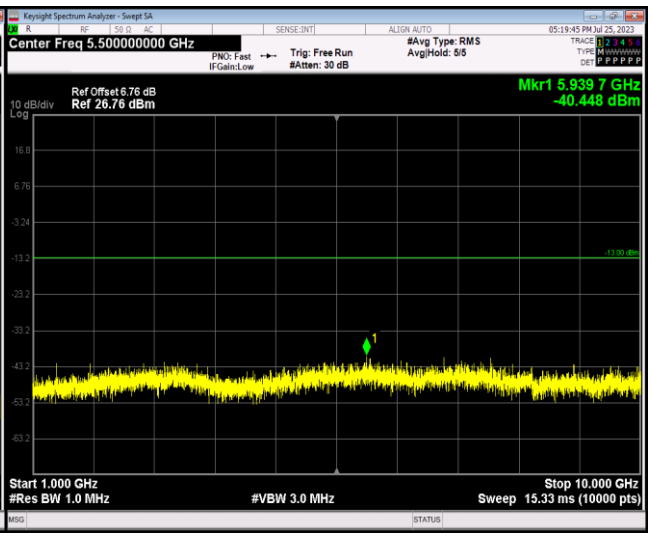


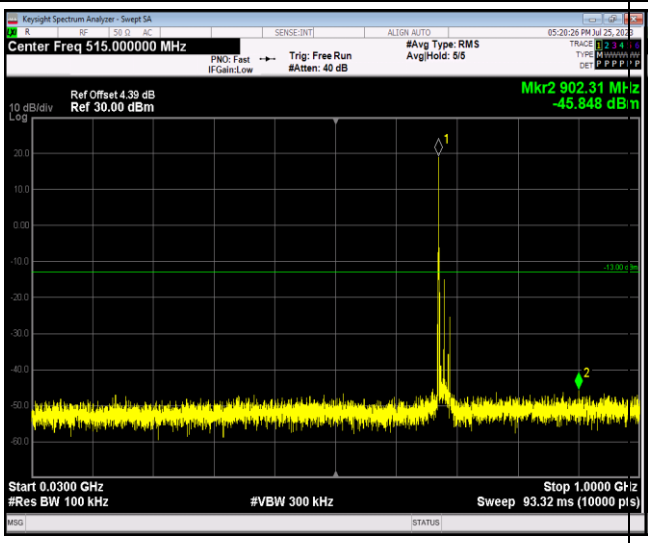
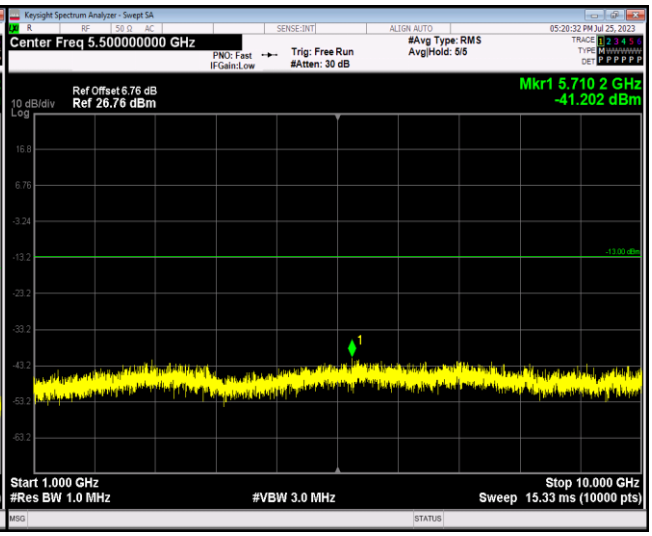
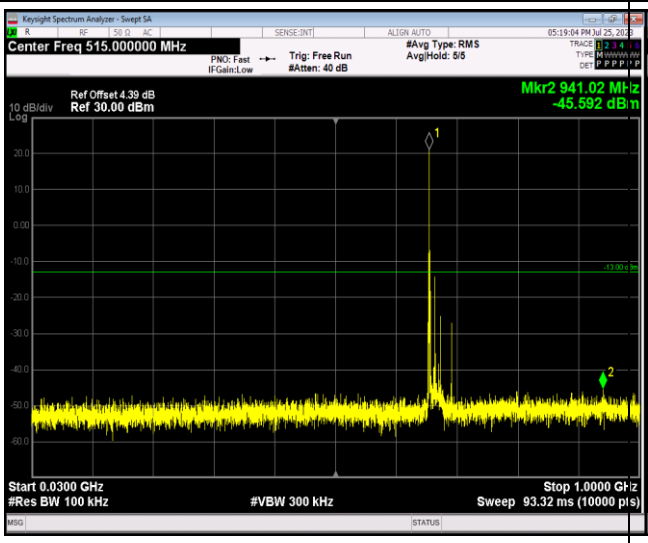
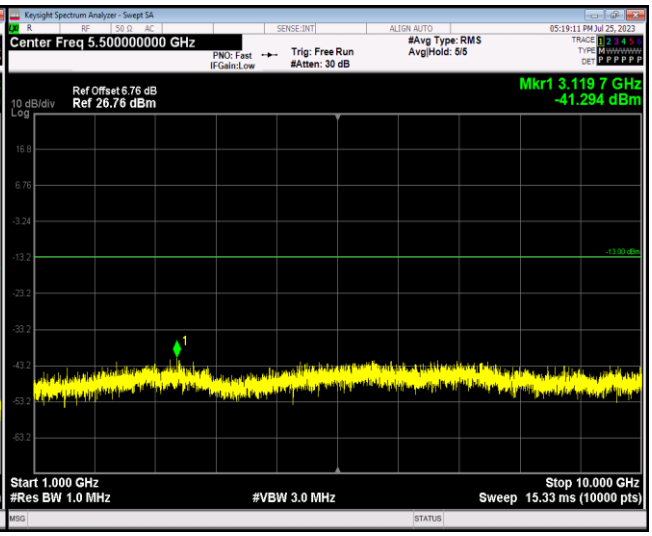
Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz

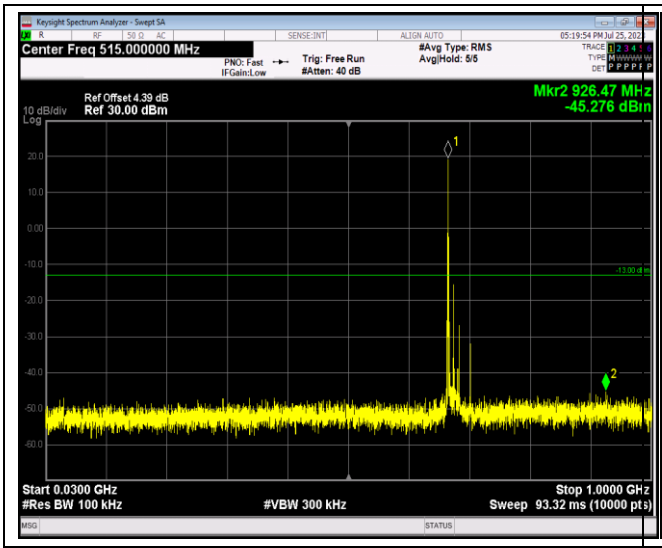


Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz

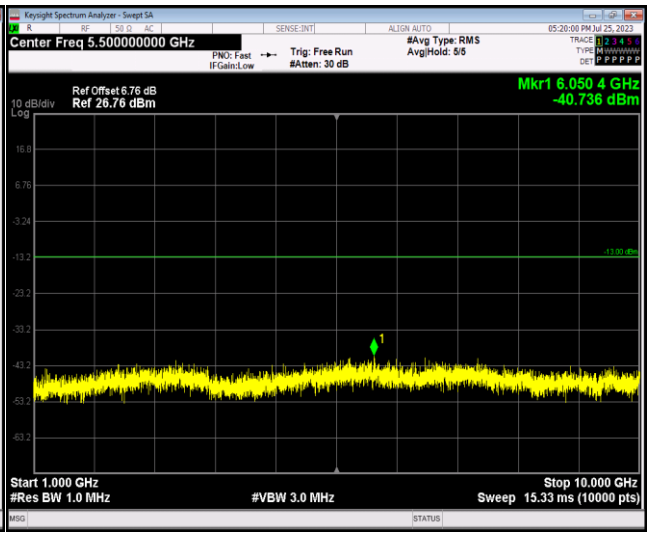




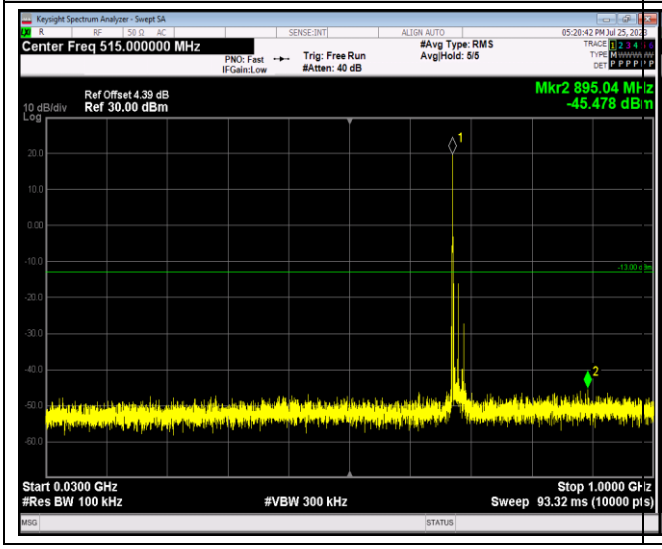
Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz	Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~10000MHz
	
Band71-20MHz-64QAM-133222-1RB#0-Range1:30~1000MHz	Band71-20MHz-64QAM-133222-1RB#0-Range2:1000~10000MHz
	
Band71-20MHz-64QAM-133322-1RB#0-Range1:30~1000MHz	Band71-20MHz-64QAM-133322-1RB#0-Range2:1000~10000MHz

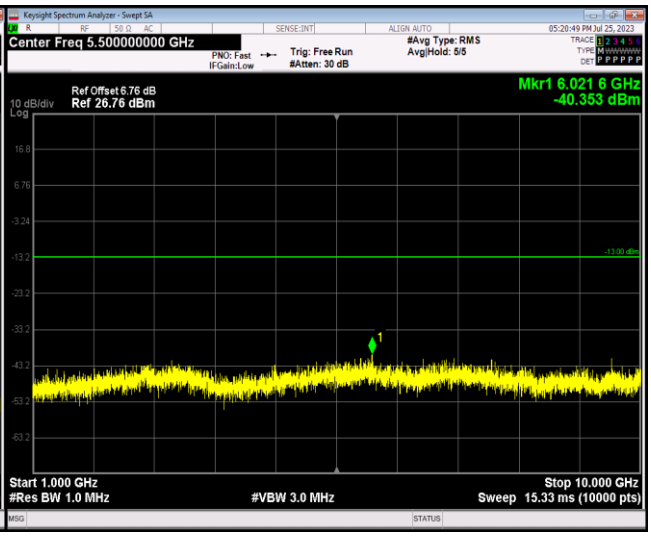


Band71-20MHz-64QAM-133372-1RB#0-Range1:30~1000MHz



Band71-20MHz-64QAM-133372-1RB#0-Range2:1000~10000MHz





Appendix F: Frequency Stability

Test Result

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-25.11	-0.013356	Within authorized band for Band 2	Pass
	-20	-14.88	-0.007915		
	-10	-17.19	-0.009144		
	0	-26.14	-0.013904		
	10	-6.04	-0.003213		
	20	-21.99	-0.011697		
	30	-18.98	-0.010096		
	40	-23.20	-0.012340		
	50	-19.04	-0.010128		
16QAM					
3.80	-30	-17.24	-0.009170	Within authorized band for Band 2	Pass
	-20	-18.95	-0.010080		
	-10	-18.58	-0.009883		
	0	-21.13	-0.011239		
	10	-19.88	-0.010574		
	20	-18.51	-0.009846		
	30	-17.75	-0.009441		
	40	-6.47	-0.003441		
	50	-8.96	-0.004766		
64QAM					
3.80	-30	-8.24	-0.004383	Within authorized band for Band 2	Pass
	-20	-22.65	-0.012048		
	-10	-10.47	-0.005569		
	0	-7.04	-0.003745		
	10	-10.20	-0.005426		
	20	-19.37	-0.010303		
	30	-23.47	-0.012484		
	40	-15.28	-0.008128		
	50	-13.19	-0.007016		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-17.31	-0.009207	Within authorized band for Band 2	Pass
	3.80	-16.48	-0.008766		
	4.35	-15.89	-0.008452		
16QAM					
25	3.50	-7.75	-0.004122	Within authorized band for Band 2	Pass
	3.80	-25.15	-0.013378		
	4.35	-24.46	-0.013011		
64QAM					
25	3.50	-24.19	-0.012867	Within authorized band for Band 2	Pass
	3.80	-8.94	-0.004755		
	4.35	-27.08	-0.014404		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	8.50	0.004906	Within authorized band for Band 4	Pass
	-20	-15.64	-0.009027		
	-10	-14.09	-0.008133		
	0	-17.27	-0.009968		
	10	-10.33	-0.005962		
	20	-9.96	-0.005749		
	30	-6.77	-0.003908		
	40	-18.10	-0.010447		
	50	4.23	0.002442		
16QAM					
3.80	-30	-12.90	-0.007446	Within authorized band for Band 4	Pass
	-20	4.42	0.002551		
	-10	-10.44	-0.006026		
	0	-3.18	-0.001835		
	10	-14.45	-0.008341		
	20	9.07	0.005235		
	30	-15.79	-0.009114		
	40	-16.58	-0.009570		
	50	-17.80	-0.010274		
64QAM					
3.80	-30	12.85	0.007417	Within authorized band for Band 4	Pass
	-20	-10.97	-0.006332		
	-10	-17.58	-0.010147		
	0	-13.19	-0.007613		
	10	-8.48	-0.004895		
	20	-4.56	-0.002632		
	30	-11.66	-0.006730		
	40	-11.62	-0.006707		
	50	-10.97	-0.006332		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-12.33	-0.007117	Within authorized band for Band 4	Pass
	3.80	-14.79	-0.008537		
	4.35	-10.66	-0.006153		
16QAM					
25	3.50	-8.48	-0.004895	Within authorized band for Band 4	Pass
	3.80	-9.90	-0.005714		
	4.35	-21.34	-0.012317		
64QAM					
25	3.50	-10.01	-0.005778	Within authorized band for Band 4	Pass
	3.80	-16.16	-0.009328		
	4.35	-11.24	-0.006488		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					