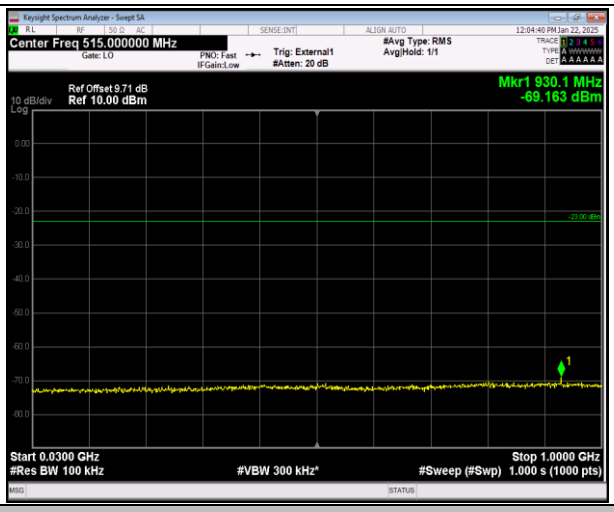
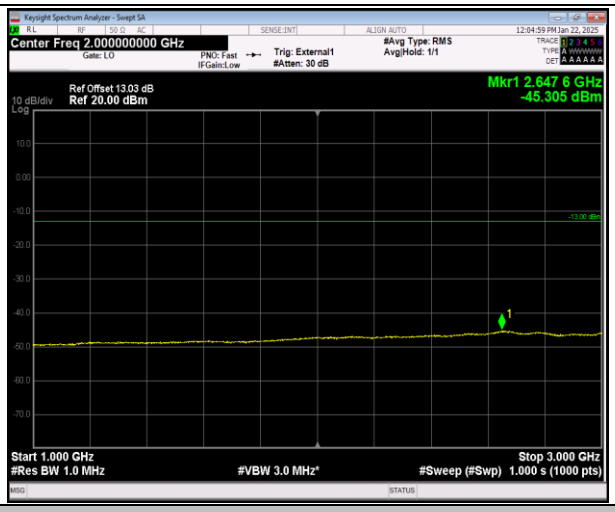
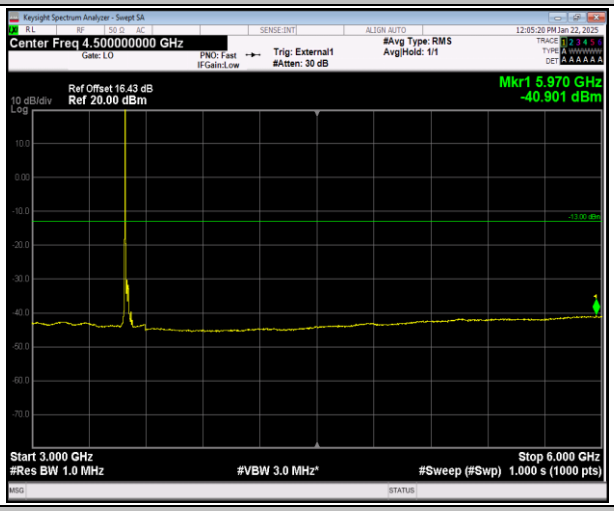


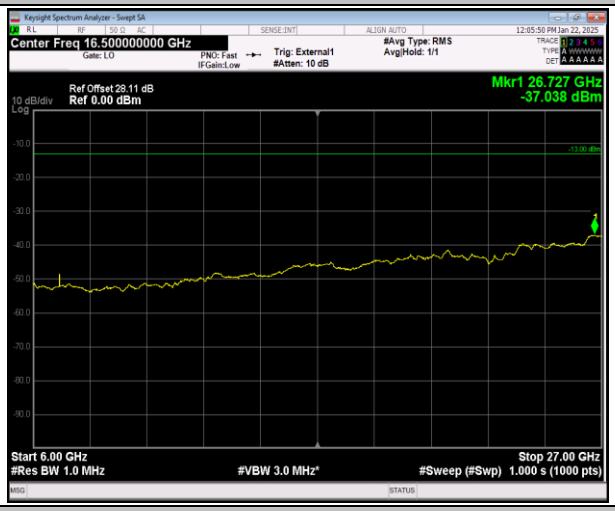
Band42(3450-3550)-20MHz-64QAM-42590-1RB#0-3000~6000



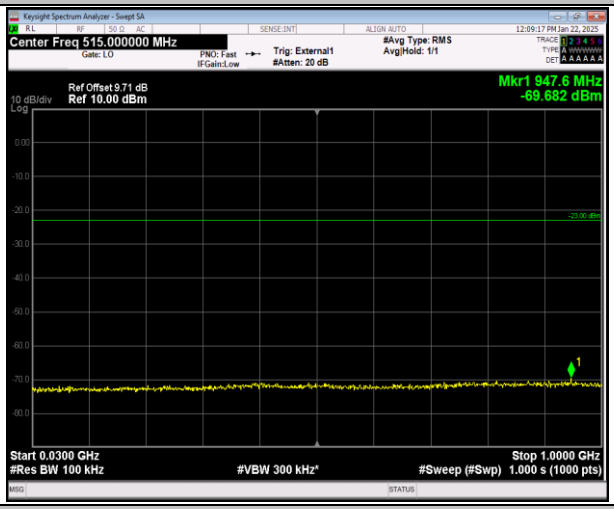
Band42(3450-3550)-20MHz-64QAM-42590-1RB#0-6000~40000



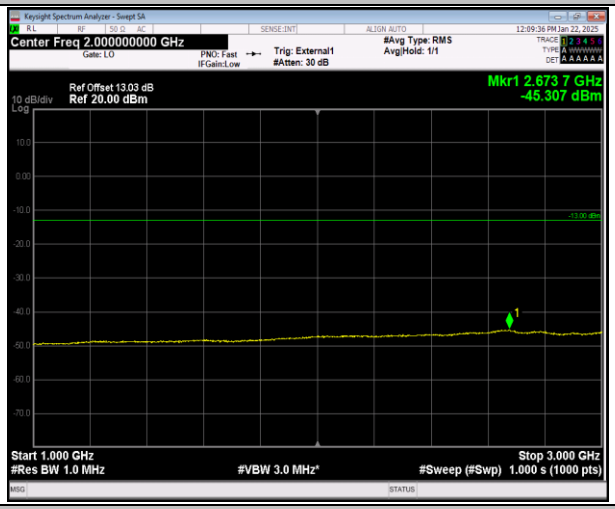
Band42(3450-3550)-20MHz-64QAM-42590-1RB#99-30~1000



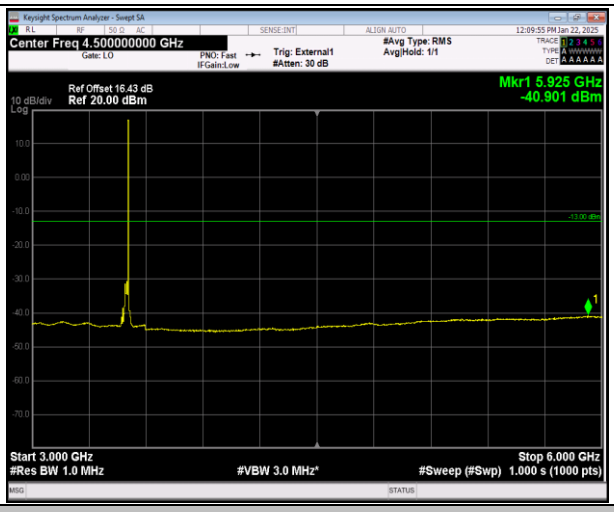
Band42(3450-3550)-20MHz-64QAM-42590-1RB#99-1000~3000



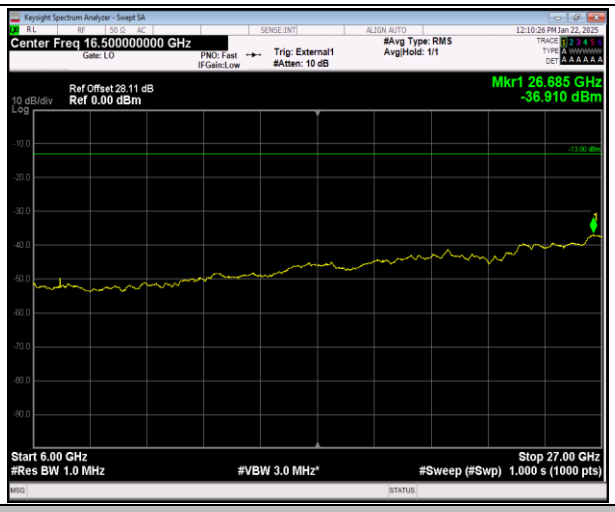
Band42(3450-3550)-20MHz-64QAM-42590-1RB#99-3000~6000



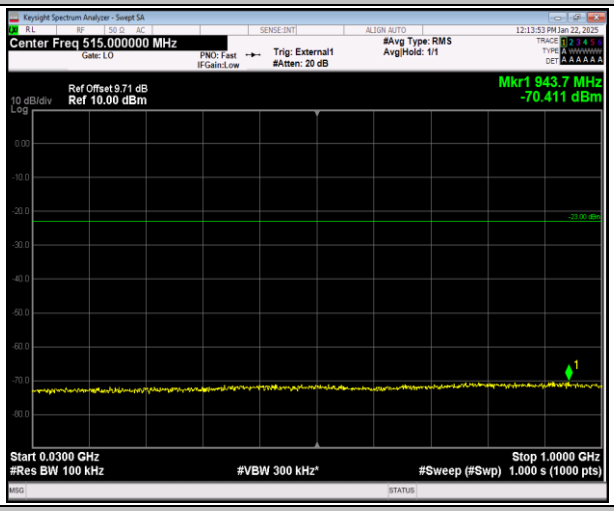
Band42(3450-3550)-20MHz-64QAM-42590-1RB#99-6000~40000



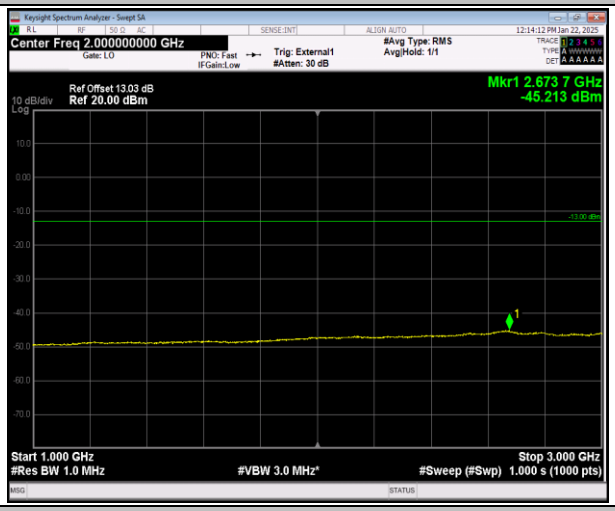
Band42(3450-3550)-20MHz-64QAM-42590-100RB#0-30~1000



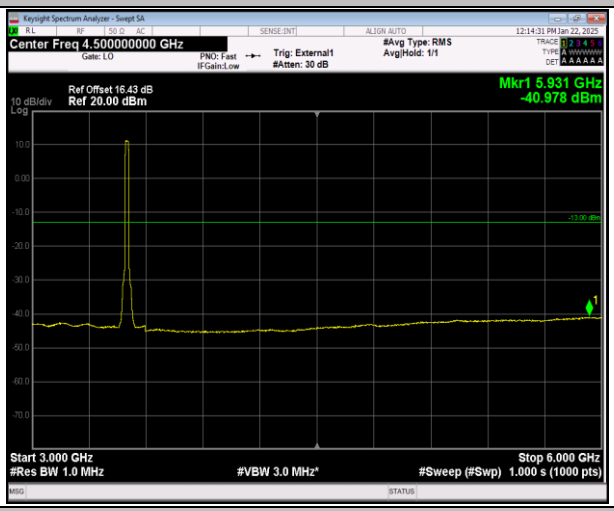
Band42(3450-3550)-20MHz-64QAM-42590-100RB#0-1000~3000



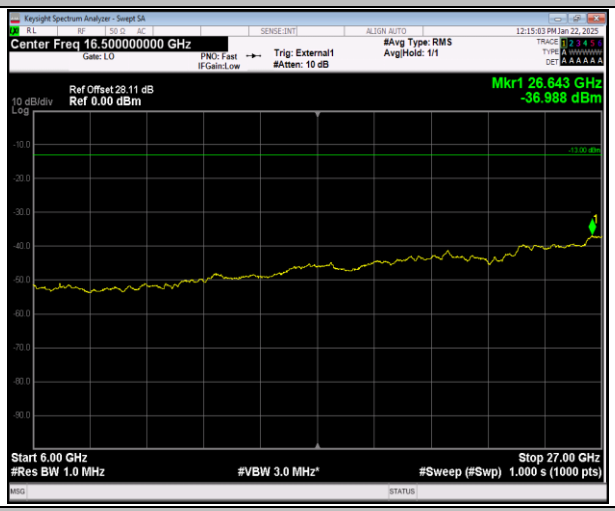
Band42(3450-3550)-20MHz-64QAM-42590-100RB#0-3000~6000



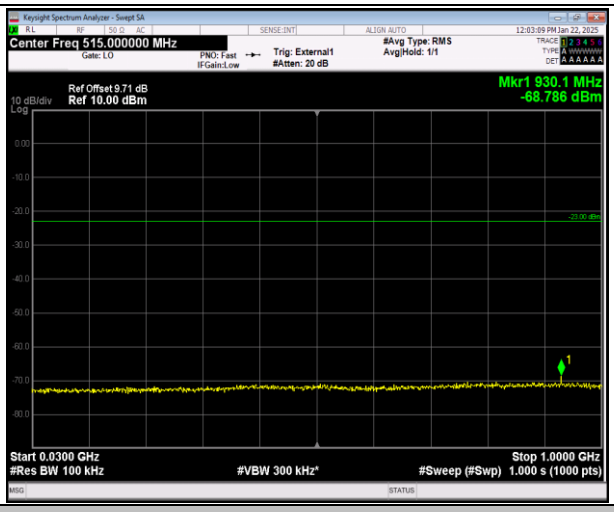
Band42(3450-3550)-20MHz-64QAM-42590-100RB#0-6000~40000



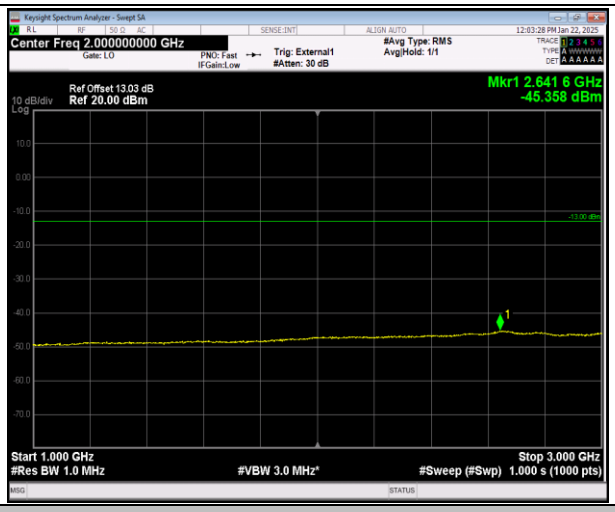
Band42(3450-3550)-20MHz-16QAM-42590-1RB#0-30~1000



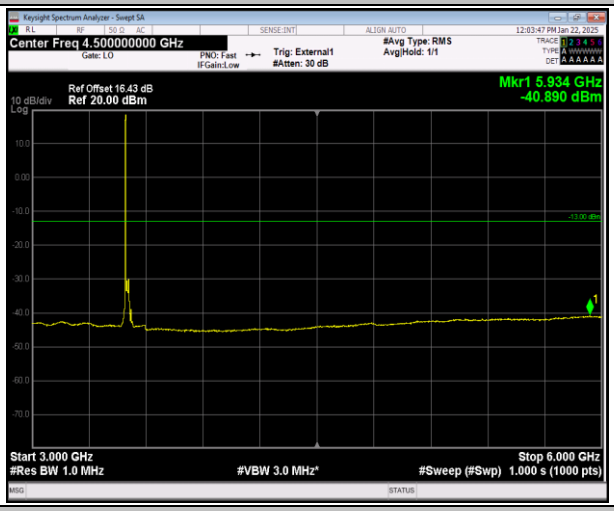
Band42(3450-3550)-20MHz-16QAM-42590-1RB#0-1000~3000



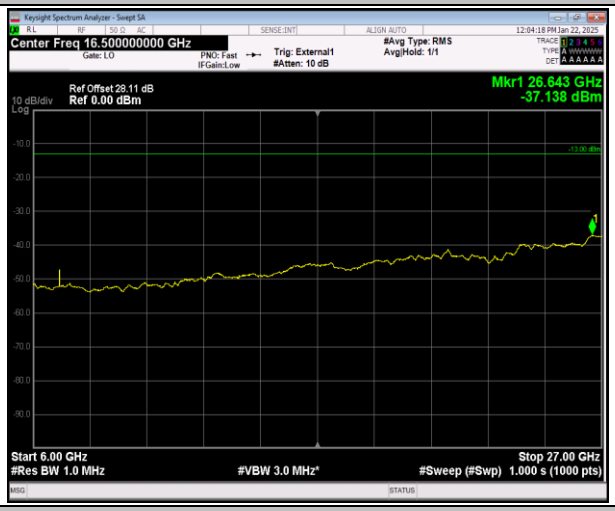
Band42(3450-3550)-20MHz-16QAM-42590-1RB#0-3000~6000



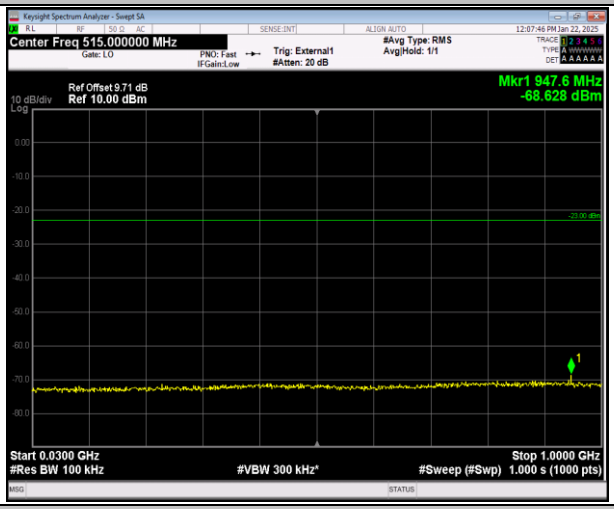
Band42(3450-3550)-20MHz-16QAM-42590-1RB#0-6000~40000



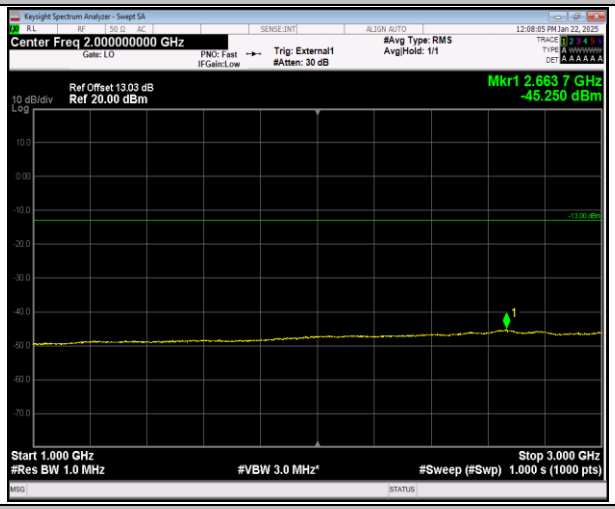
Band42(3450-3550)-20MHz-16QAM-42590-1RB#99-30~1000



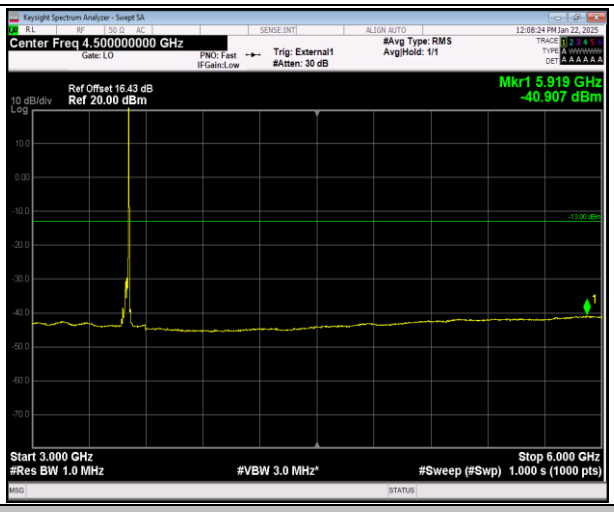
Band42(3450-3550)-20MHz-16QAM-42590-1RB#99-1000~3000



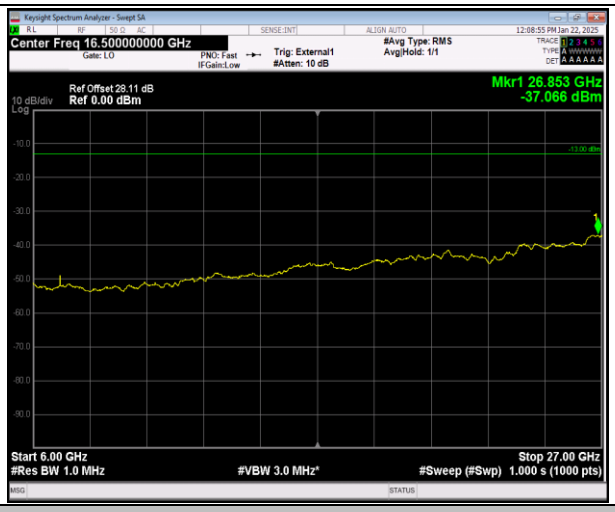
Band42(3450-3550)-20MHz-16QAM-42590-1RB#99-3000~6000



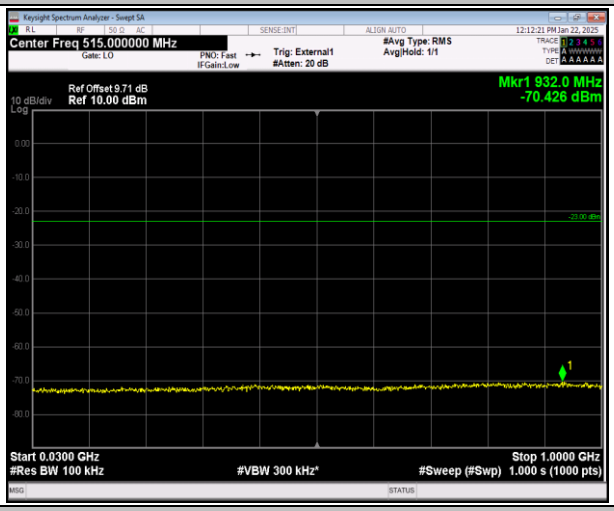
Band42(3450-3550)-20MHz-16QAM-42590-1RB#99-6000~40000



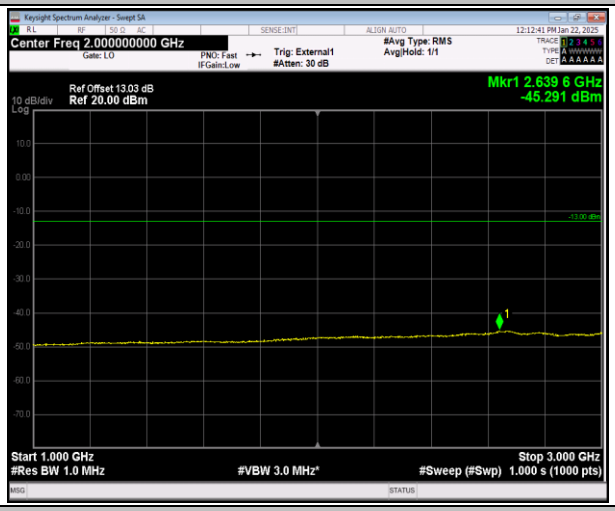
Band42(3450-3550)-20MHz-16QAM-42590-100RB#0-30~1000



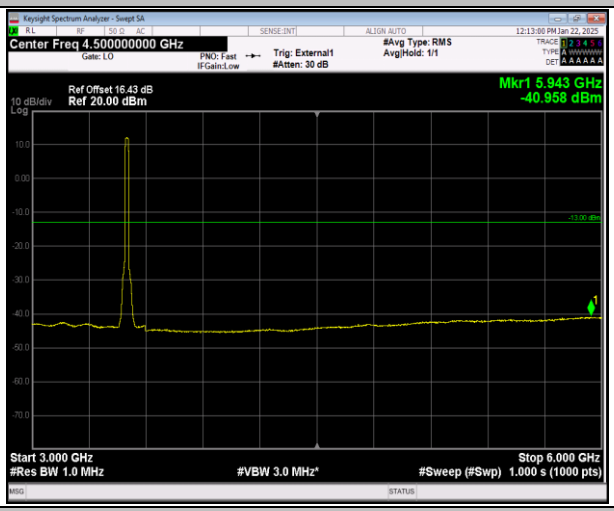
Band42(3450-3550)-20MHz-16QAM-42590-100RB#0-1000~3000



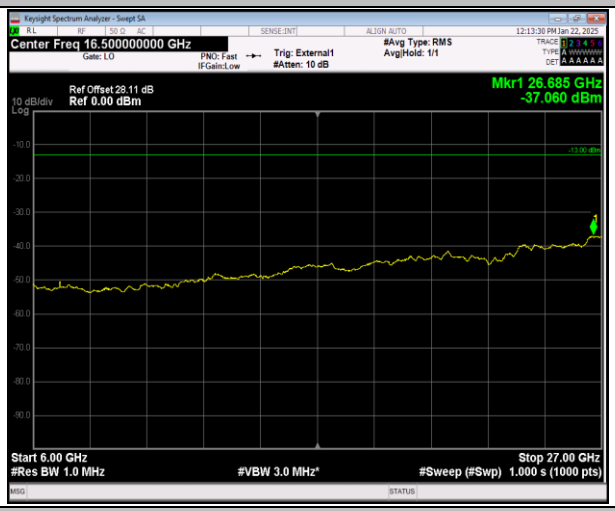
Band42(3450-3550)-20MHz-16QAM-42590-100RB#0-3000~6000



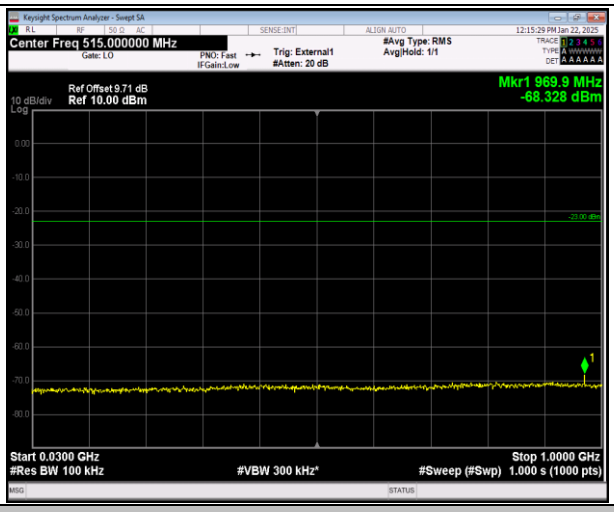
Band42(3450-3550)-20MHz-16QAM-42590-100RB#0-6000~40000



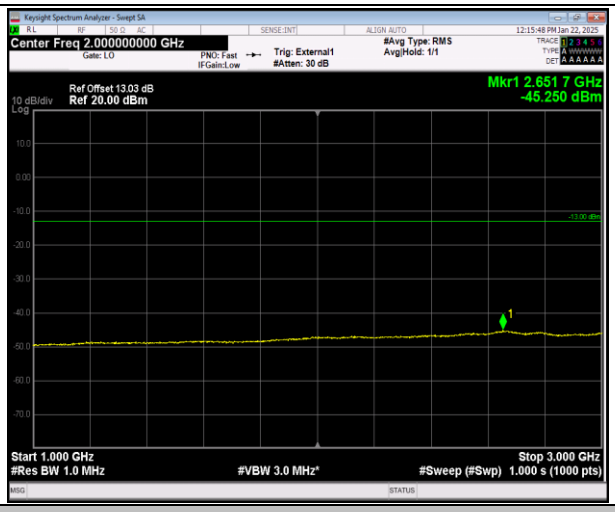
Band42(3450-3550)-20MHz-QPSK-42990-1RB#0-30~1000



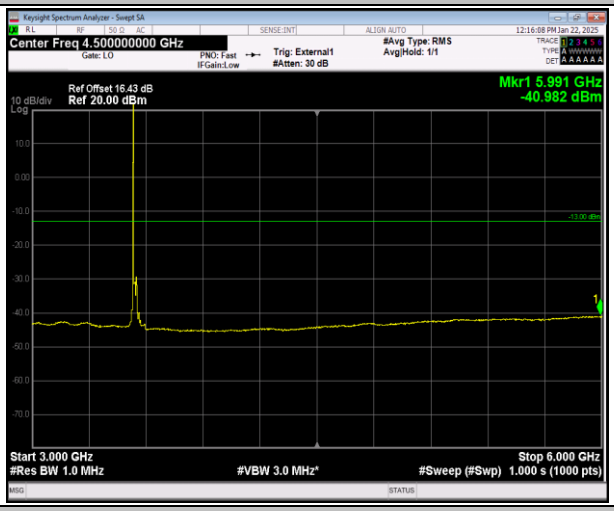
Band42(3450-3550)-20MHz-QPSK-42990-1RB#0-1000~3000



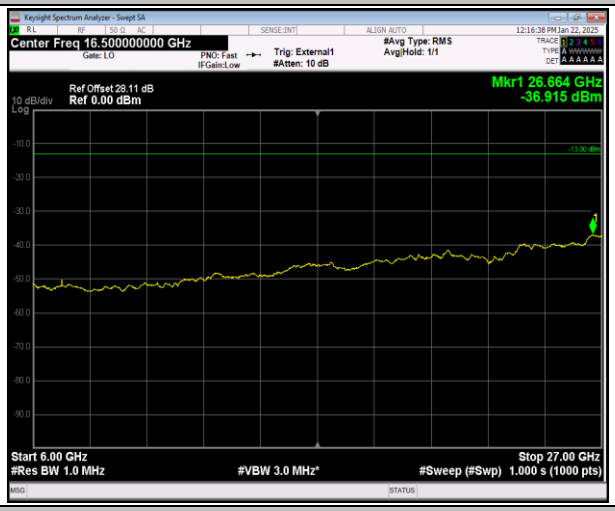
Band42(3450-3550)-20MHz-QPSK-42990-1RB#0-3000~6000



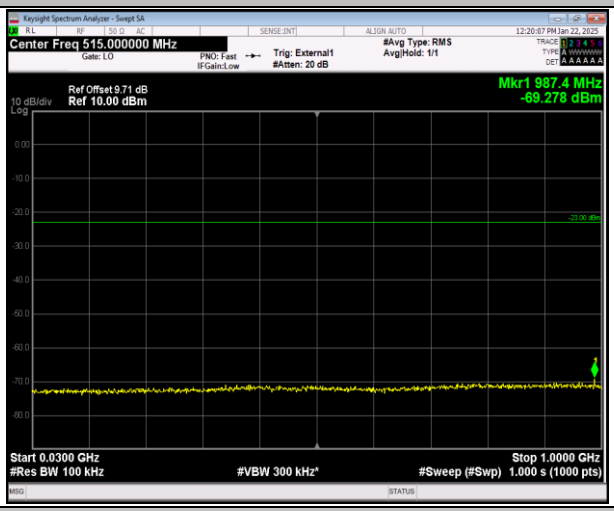
Band42(3450-3550)-20MHz-QPSK-42990-1RB#0-6000~40000



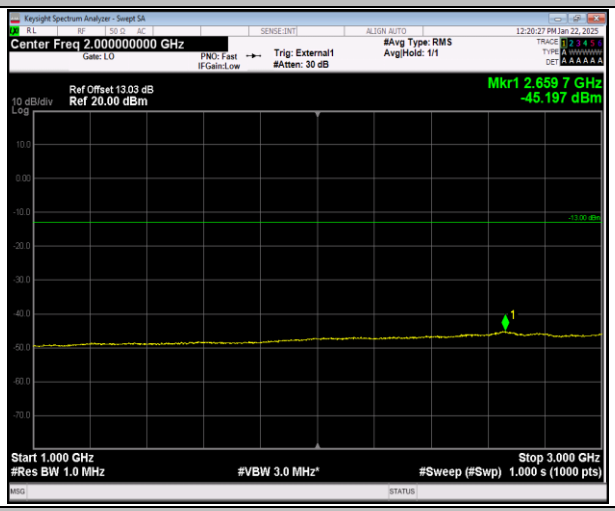
Band42(3450-3550)-20MHz-QPSK-42990-1RB#99-30~1000



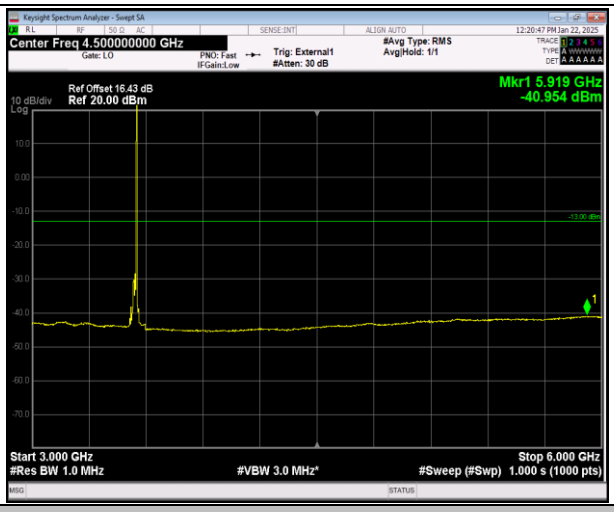
Band42(3450-3550)-20MHz-QPSK-42990-1RB#99-1000~3000



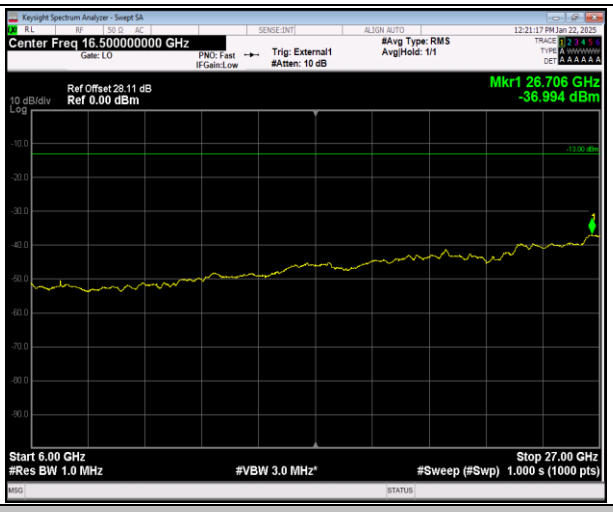
Band42(3450-3550)-20MHz-QPSK-42990-1RB#99-3000~6000



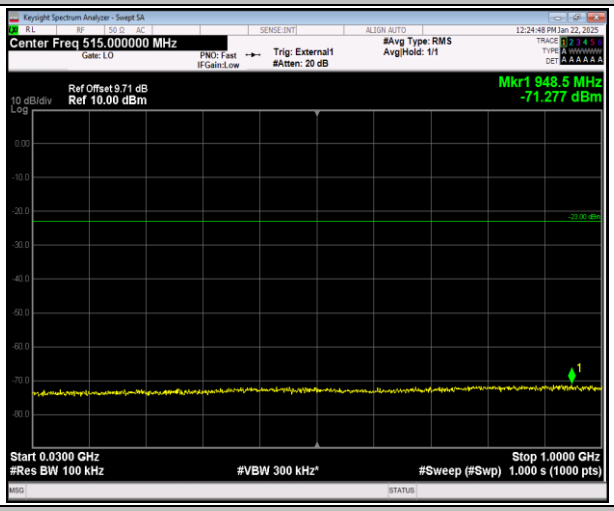
Band42(3450-3550)-20MHz-QPSK-42990-1RB#99-6000~40000



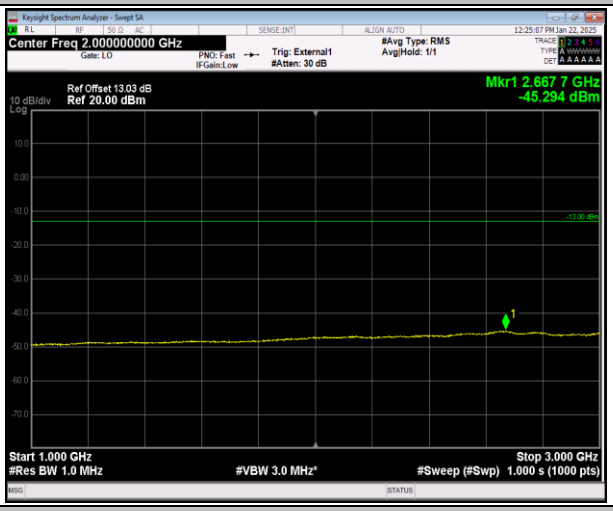
Band42(3450-3550)-20MHz-QPSK-42990-100RB#0-30~1000



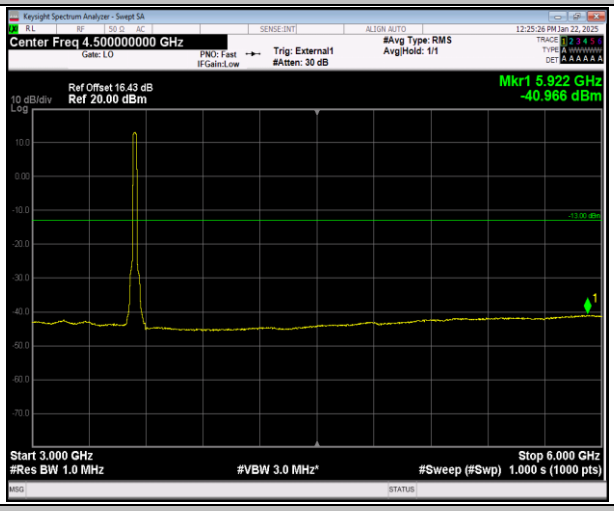
Band42(3450-3550)-20MHz-QPSK-42990-100RB#0-1000~3000



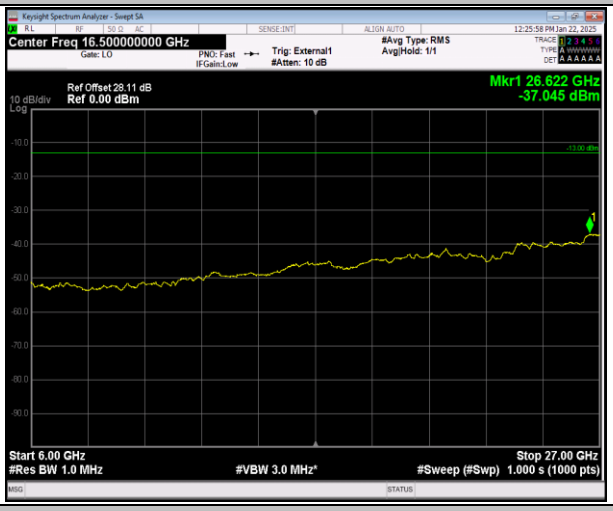
Band42(3450-3550)-20MHz-QPSK-42990-100RB#0-3000~6000



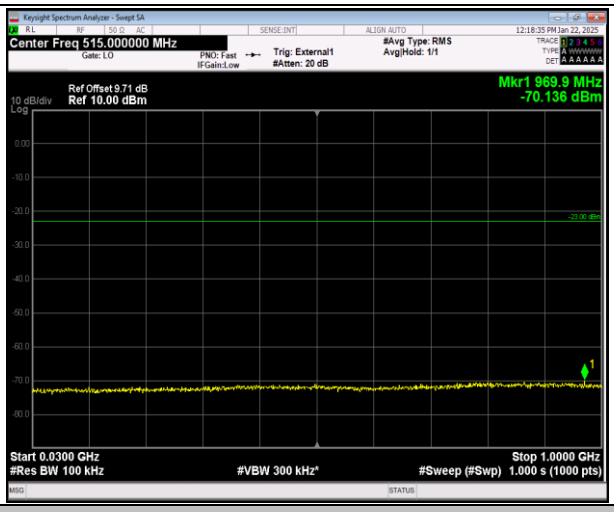
Band42(3450-3550)-20MHz-QPSK-42990-100RB#0-6000~40000



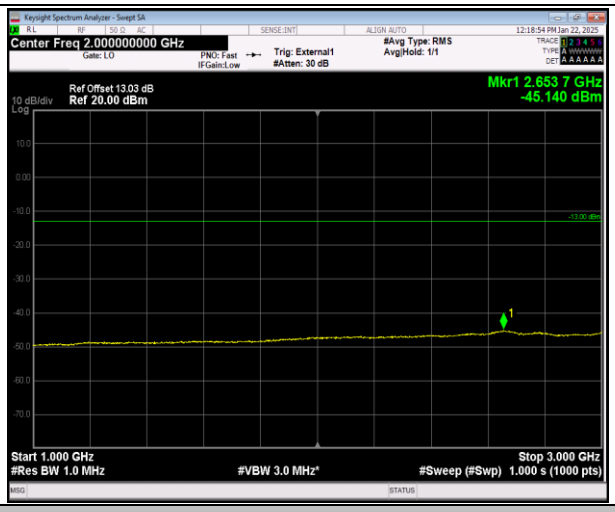
Band42(3450-3550)-20MHz-64QAM-42990-1RB#0-30~1000



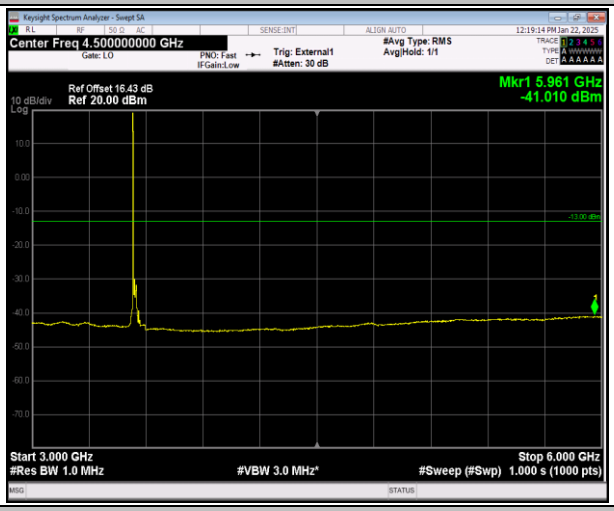
Band42(3450-3550)-20MHz-64QAM-42990-1RB#0-1000~3000



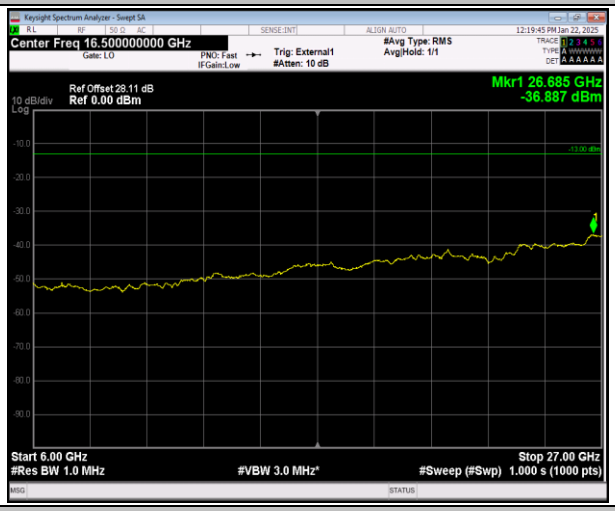
Band42(3450-3550)-20MHz-64QAM-42990-1RB#0-3000~6000



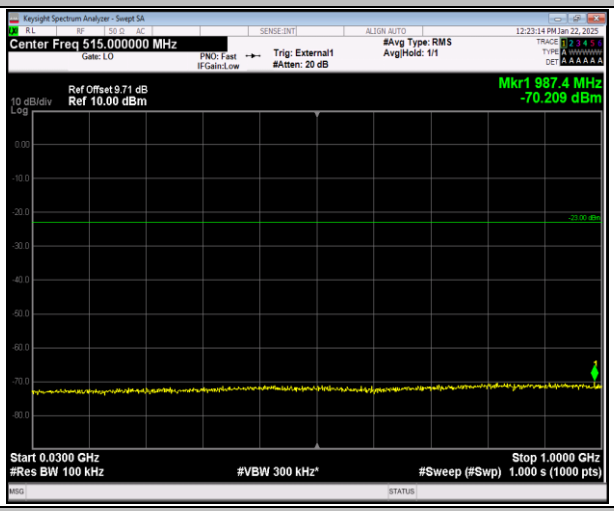
Band42(3450-3550)-20MHz-64QAM-42990-1RB#0-6000~40000



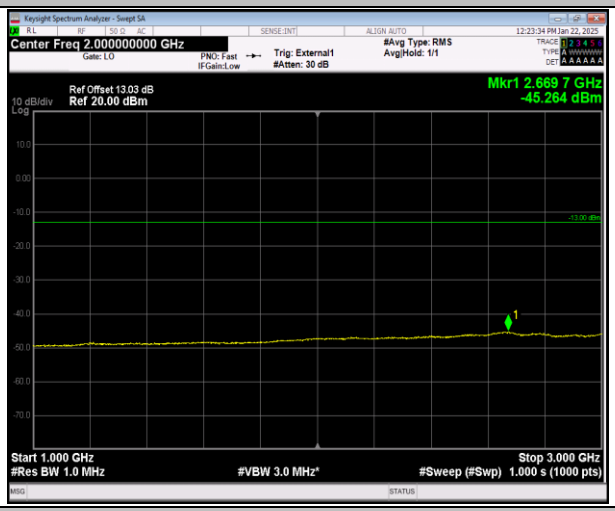
Band42(3450-3550)-20MHz-64QAM-42990-1RB#99-30~1000



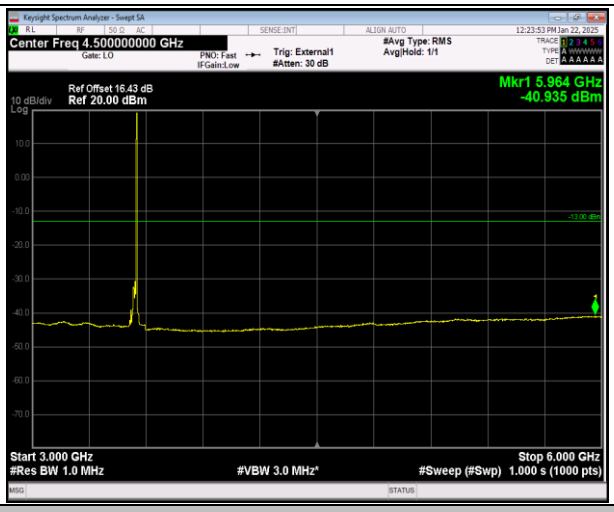
Band42(3450-3550)-20MHz-64QAM-42990-1RB#99-1000~3000



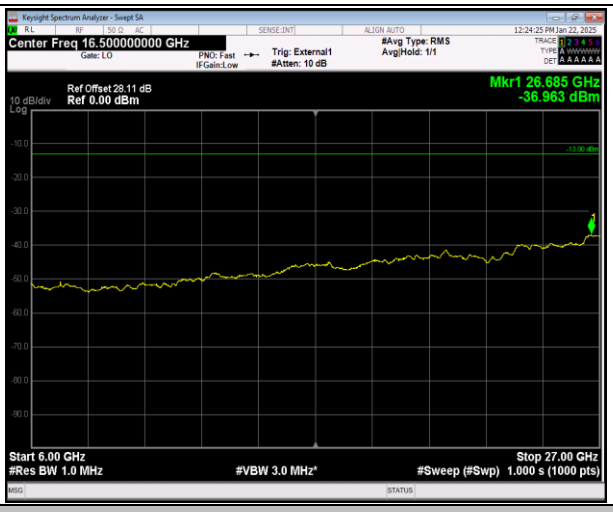
Band42(3450-3550)-20MHz-64QAM-42990-1RB#99-3000~6000



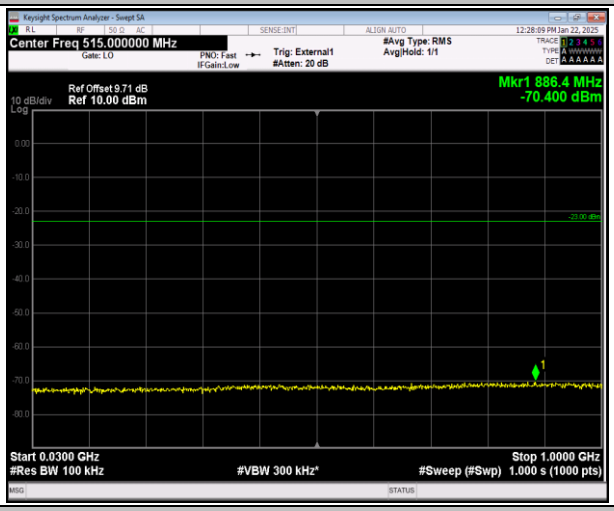
Band42(3450-3550)-20MHz-64QAM-42990-1RB#99-6000~40000



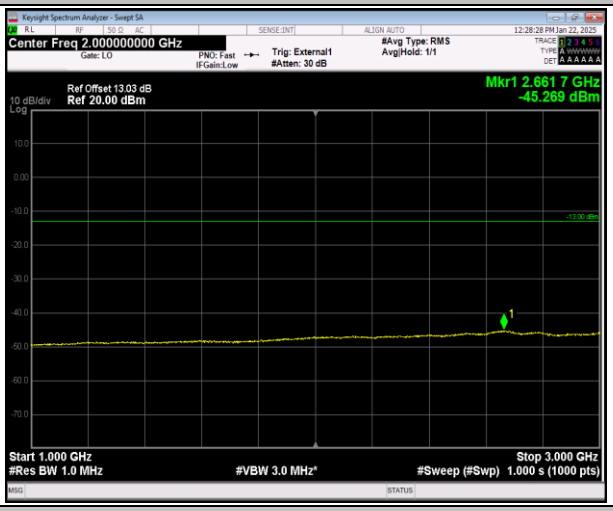
Band42(3450-3550)-20MHz-64QAM-42990-100RB#0-30~1000



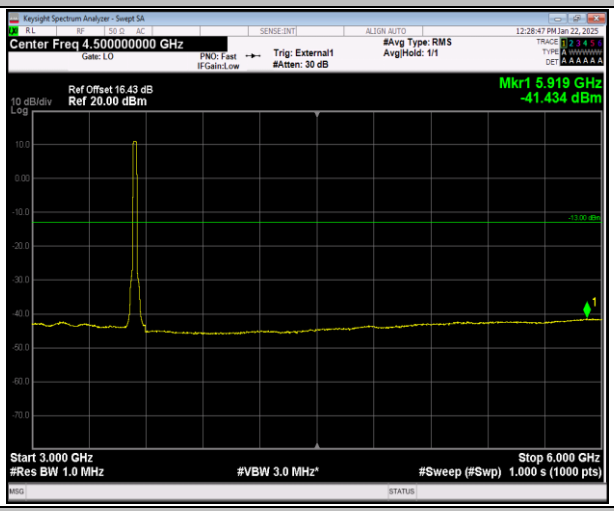
Band42(3450-3550)-20MHz-64QAM-42990-100RB#0-1000~3000



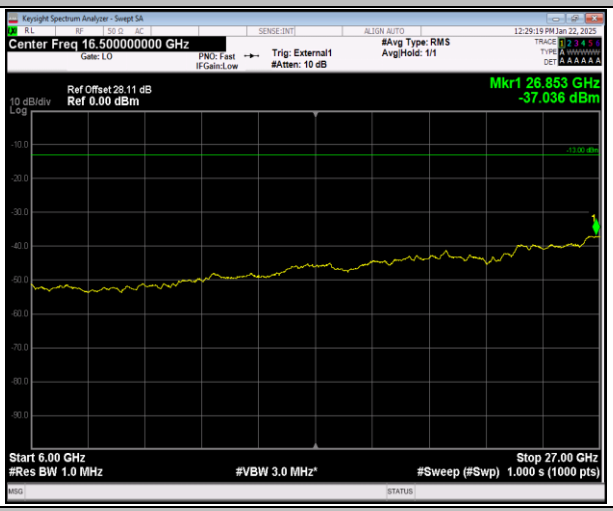
Band42(3450-3550)-20MHz-64QAM-42990-100RB#0-3000~6000



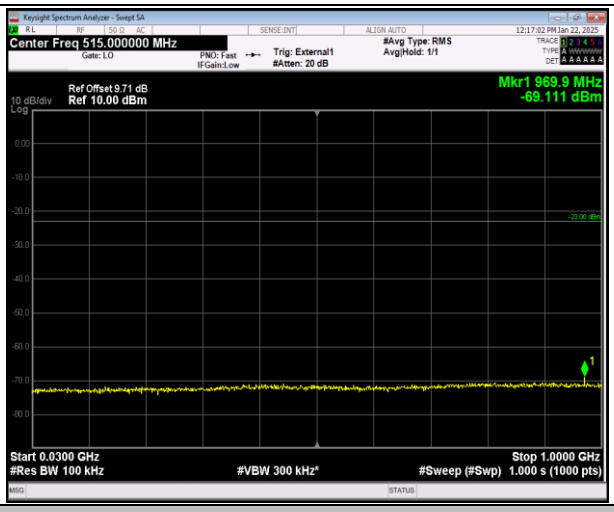
Band42(3450-3550)-20MHz-64QAM-42990-100RB#0-6000~40000



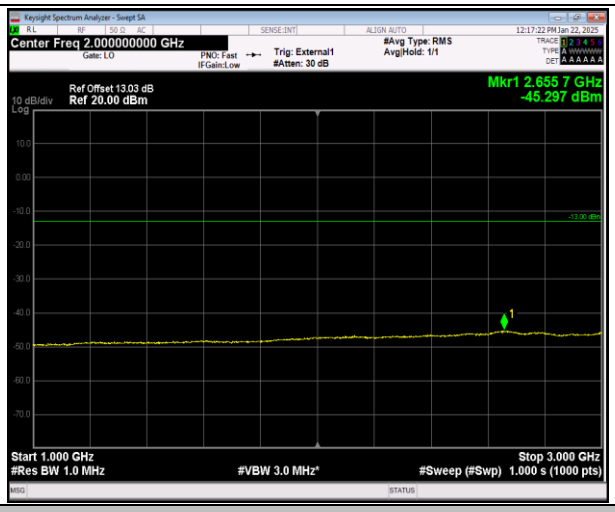
Band42(3450-3550)-20MHz-16QAM-42990-1RB#0-30~1000



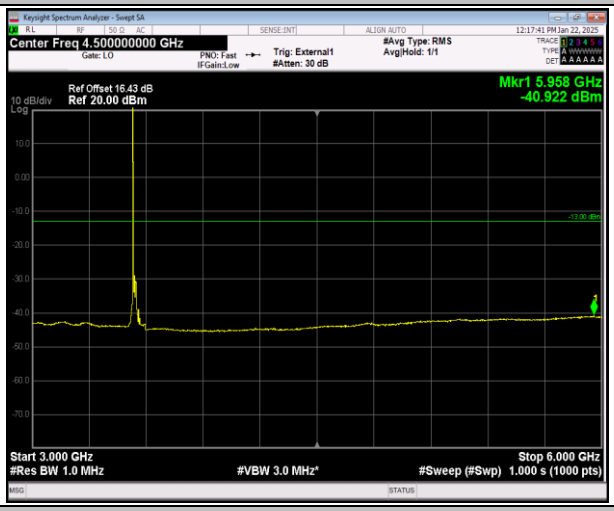
Band42(3450-3550)-20MHz-16QAM-42990-1RB#0-1000~3000



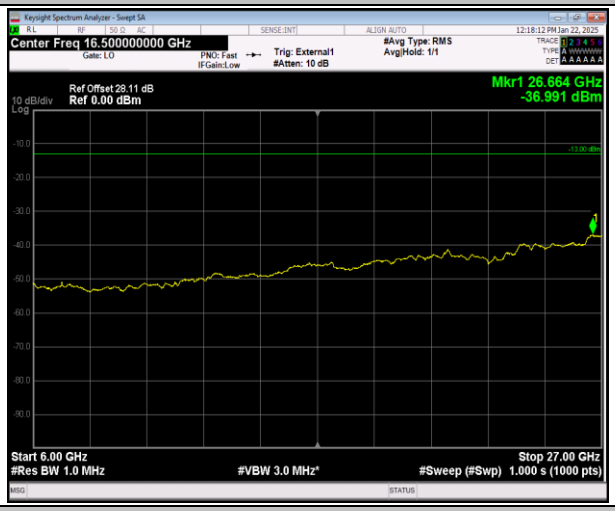
Band42(3450-3550)-20MHz-16QAM-42990-1RB#0-3000~6000



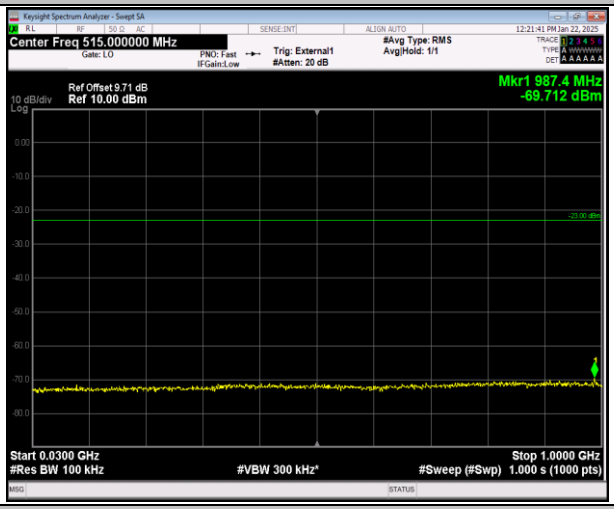
Band42(3450-3550)-20MHz-16QAM-42990-1RB#0-6000~40000



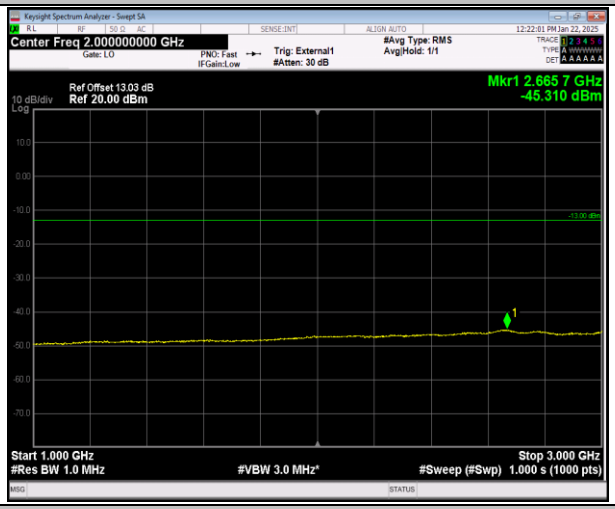
Band42(3450-3550)-20MHz-16QAM-42990-1RB#99-30~1000



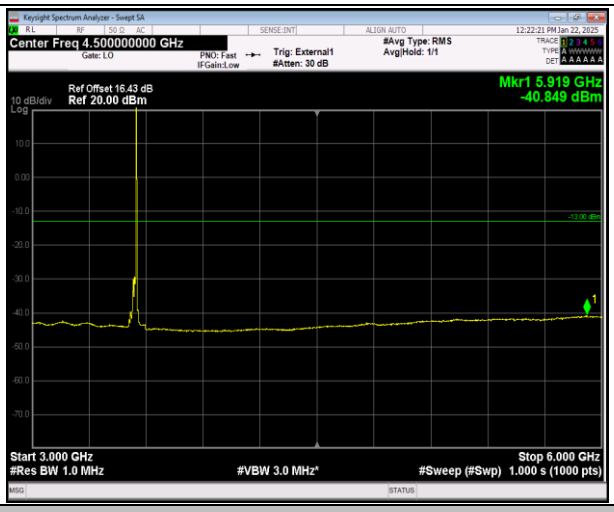
Band42(3450-3550)-20MHz-16QAM-42990-1RB#99-1000~3000



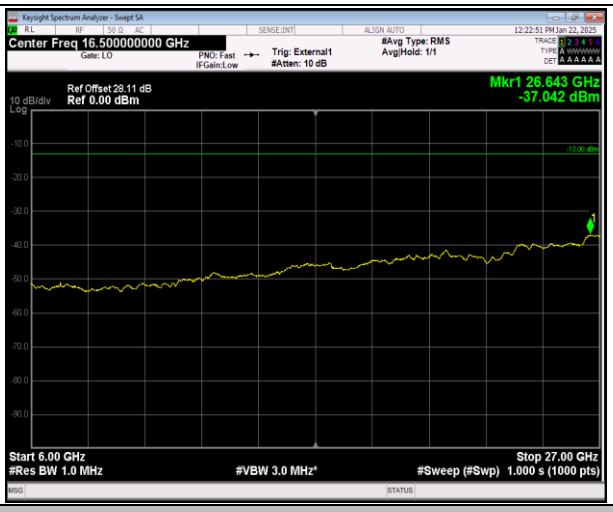
Band42(3450-3550)-20MHz-16QAM-42990-1RB#99-3000~6000



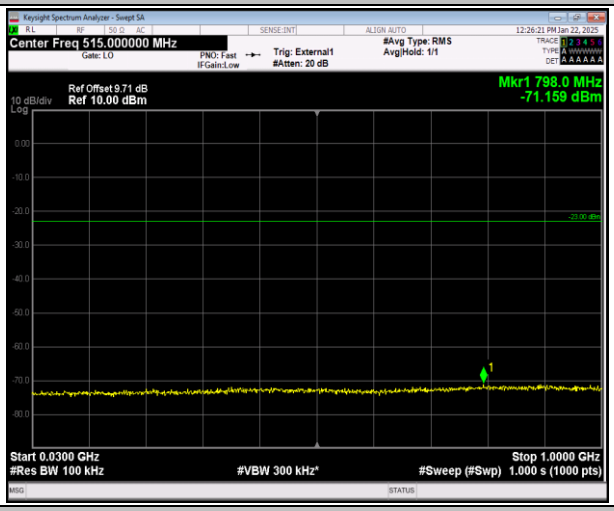
Band42(3450-3550)-20MHz-16QAM-42990-1RB#99-6000~40000



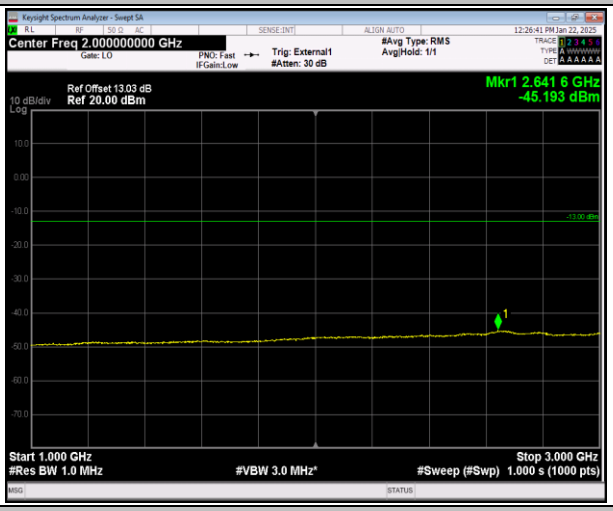
Band42(3450-3550)-20MHz-16QAM-42990-100RB#0-30~1000



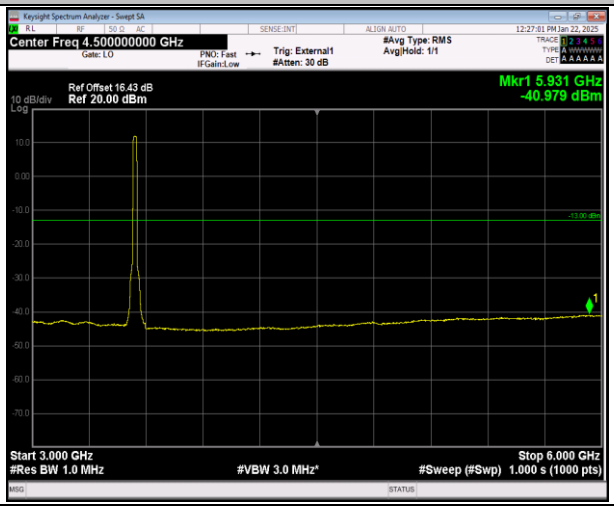
Band42(3450-3550)-20MHz-16QAM-42990-100RB#0-1000~3000

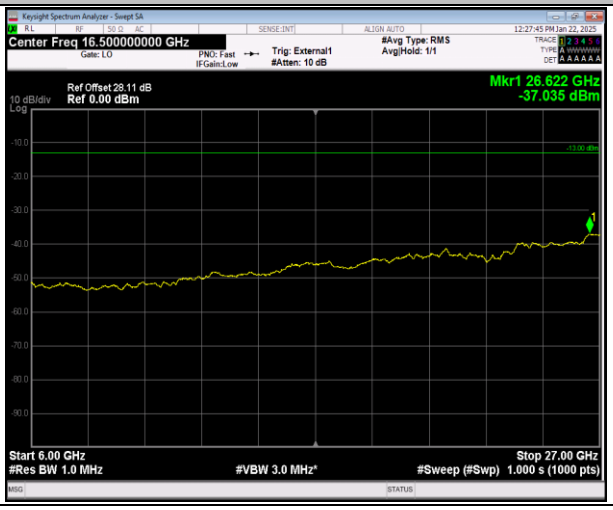


Band42(3450-3550)-20MHz-16QAM-42990-100RB#0-3000~6000



Band42(3450-3550)-20MHz-16QAM-42990-100RB#0-6000~40000





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					
3.91	-30	-4.31	-0.002293	Within authorized band for Band 2	Pass
	-20	-7.34	-0.003904		
	-10	-4.26	-0.002266		
	0	-5.45	-0.002899		
	10	-6.51	-0.003463		
	20	-3.52	-0.001872		
	30	-6.05	-0.003218		
	40	-4.38	-0.002330		
	50	-5.41	-0.002878		
16QAM					
3.91	-30	-5.71	-0.003037	Within authorized band for Band 2	Pass
	-20	-7.71	-0.004101		
	-10	-2.78	-0.001479		
	0	-6.39	-0.003399		
	10	-5.55	-0.002952		
	20	-2.63	-0.001399		
	30	-7.01	-0.003729		
	40	-3.58	-0.001904		
	50	-4.81	-0.002559		
64QAM					
3.91	-30	2.62	0.001394	Within authorized band for Band 2	Pass
	-20	-7.55	-0.004016		
	-10	-4.59	-0.002441		
	0	-5.68	-0.003021		
	10	-10.90	-0.005798		
	20	-3.71	-0.001973		
	30	-6.34	-0.003372		
	40	-2.85	-0.001516		
	50	-3.68	-0.001957		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	3.49	0.001856	Within authorized band for Band 2	Pass
	3.91	-8.37	-0.004452		
	4.50	-6.09	-0.003239		
16QAM					
25	3.45	-7.08	-0.003766	Within authorized band for Band 2	Pass
	3.91	-6.54	-0.003479		
	4.50	-7.40	-0.003936		
64QAM					
25	3.45	-7.93	-0.004218	Within authorized band for Band 2	Pass
	3.91	-4.19	-0.002229		
	4.50	-6.79	-0.003612		
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					
3.91	-30	-5.78	-0.003336	Within authorized band for Band 4	Pass
	-20	-5.31	-0.003065		
	-10	-4.51	-0.002603		
	0	-6.37	-0.003677		
	10	-6.31	-0.003642		
	20	-6.62	-0.003821		
	30	-7.41	-0.004277		
	40	-4.26	-0.002459		
	50	-4.03	-0.002326		
16QAM					
3.91	-30	-7.67	-0.004427	Within authorized band for Band 4	Pass
	-20	-6.37	-0.003677		
	-10	-5.59	-0.003227		
	0	-8.80	-0.005079		
	10	-10.34	-0.005968		
	20	-4.84	-0.002794		
	30	-4.86	-0.002805		
	40	-4.95	-0.002857		
	50	-4.43	-0.002557		
64QAM					
3.91	-30	-5.92	-0.003417	Within authorized band for Band 4	Pass
	-20	-3.59	-0.002072		
	-10	-5.66	-0.003267		
	0	-7.08	-0.004087		
	10	-5.39	-0.003111		
	20	-7.30	-0.004214		
	30	-5.88	-0.003394		
	40	-6.85	-0.003954		
	50	-6.35	-0.003665		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-2.52	-0.001455	Within authorized band for Band 4	Pass
	3.91	-3.76	-0.002170		
	4.50	-5.79	-0.003342		
16QAM					
25	3.45	-4.32	-0.002494	Within authorized band for Band 4	Pass
	3.91	-8.84	-0.005102		
	4.50	-5.16	-0.002978		
64QAM					
25	3.45	-5.08	-0.002932	Within authorized band for Band 4	Pass
	3.91	-4.81	-0.002776		
	4.50	-5.35	-0.003088		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-5.39	-0.006444	±2.5	Pass
	-20	-5.89	-0.007041		
	-10	-4.43	-0.005296		
	0	-4.81	-0.005750		
	10	-5.95	-0.007113		
	20	-5.02	-0.006001		
	30	-5.31	-0.006348		
	40	-5.48	-0.006551		
	50	-4.69	-0.005607		
16QAM					
3.91	-30	-5.09	-0.006085	±2.5	Pass
	-20	-10.90	-0.013030		
	-10	-6.01	-0.007185		
	0	-5.59	-0.006683		
	10	-6.04	-0.007221		
	20	-6.18	-0.007388		
	30	-5.75	-0.006874		
	40	-2.43	-0.002905		
	50	-5.39	-0.006444		
64QAM					
3.91	-30	-6.55	-0.007830	±2.5	Pass
	-20	-3.92	-0.004686		
	-10	-5.64	-0.006742		
	0	-5.16	-0.006169		
	10	-5.41	-0.006467		
	20	-4.58	-0.005475		
	30	-4.45	-0.005320		
	40	-4.96	-0.005929		
	50	-3.40	-0.004065		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.25	-0.006276	±2.5	Pass
	3.91	-2.45	-0.002929		
	4.50	-5.06	-0.006049		
16QAM					
25	3.45	-6.09	-0.007280	±2.5	Pass
	3.91	-5.59	-0.006683		
	4.50	-6.67	-0.007974		
64QAM					
25	3.45	-4.55	-0.005439	±2.5	Pass
	3.91	-5.49	-0.006563		
	4.50	-4.79	-0.005726		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-7.02	-0.002769	Within authorized band for Band 7	Pass
	-20	-3.45	-0.001361		
	-10	-5.11	-0.002016		
	0	-6.48	-0.002556		
	10	-7.57	-0.002986		
	20	-2.68	-0.001057		
	30	-4.09	-0.001613		
	40	-5.81	-0.002292		
	50	-6.24	-0.002462		
16QAM					
3.91	-30	-4.29	-0.001692	Within authorized band for Band 7	Pass
	-20	-4.91	-0.001937		
	-10	-6.84	-0.002698		
	0	-6.17	-0.002434		
	10	-7.01	-0.002765		
	20	-6.97	-0.002750		
	30	-6.21	-0.002450		
	40	-2.96	-0.001168		
	50	-5.48	-0.002162		
64QAM					
3.91	-30	-4.76	-0.001878	Within authorized band for Band 7	Pass
	-20	-5.24	-0.002067		
	-10	-3.83	-0.001511		
	0	-5.14	-0.002028		
	10	-7.67	-0.003026		
	20	-4.45	-0.001755		
	30	-5.82	-0.002296		
	40	-5.78	-0.002280		
	50	-3.99	-0.001574		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.84	-0.003093	Within authorized band for Band 7	Pass
	3.91	-10.49	-0.004138		
	4.50	-8.10	-0.003195		
16QAM					
25	3.45	-6.27	-0.002473	Within authorized band for Band 7	Pass
	3.91	-7.91	-0.003120		
	4.50	-6.58	-0.002596		
64QAM					
25	3.45	-6.09	-0.002402	Within authorized band for Band 7	Pass
	3.91	-5.66	-0.002233		
	4.50	5.29	0.002087		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-8.70	-0.012297	Within authorized band for Band 12	Pass
	-20	-6.22	-0.008792		
	-10	-5.18	-0.007322		
	0	-5.62	-0.007943		
	10	-5.72	-0.008085		
	20	-5.62	-0.007943		
	30	-9.61	-0.013583		
	40	-4.01	-0.005668		
	50	-3.96	-0.005597		
16QAM					
3.91	-30	-4.73	-0.006686	Within authorized band for Band 12	Pass
	-20	-3.83	-0.005413		
	-10	-4.59	-0.006488		
	0	-7.04	-0.009951		
	10	-4.78	-0.006756		
	20	-4.05	-0.005724		
	30	-3.60	-0.005088		
	40	-3.43	-0.004848		
	50	-4.36	-0.006163		
64QAM					
3.91	-30	-4.19	-0.005922	Within authorized band for Band 12	Pass
	-20	-4.31	-0.006092		
	-10	-7.91	-0.011180		
	0	-4.75	-0.006714		
	10	-1.06	-0.001498		
	20	-8.13	-0.011491		
	30	-5.85	-0.008269		
	40	-3.45	-0.004876		
	50	-3.65	-0.005159		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.79	-0.005357	Within authorized band for Band 12	Pass
	3.91	-4.69	-0.006629		
	4.50	-4.66	-0.006587		
16QAM					
25	3.45	-4.06	-0.005739	Within authorized band for Band 12	Pass
	3.91	-4.62	-0.006530		
	4.50	-4.26	-0.006021		
64QAM					
25	3.45	-7.37	-0.010417	Within authorized band for Band 12	Pass
	3.91	-4.01	-0.005668		
	4.50	-4.16	-0.005880		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	3.00	0.004225	Within authorized band for Band 17	Pass
	-20	3.60	0.005070		
	-10	2.78	0.003915		
	0	-2.42	-0.003408		
	10	-3.68	-0.005183		
	20	-4.13	-0.005817		
	30	3.23	0.004549		
	40	2.68	0.003775		
	50	3.69	0.005197		
16QAM					
3.91	-30	-4.66	-0.006563	Within authorized band for Band 17	Pass
	-20	-3.81	-0.005366		
	-10	-4.18	-0.005887		
	0	-2.53	-0.003563		
	10	3.19	0.004493		
	20	-3.56	-0.005014		
	30	2.83	0.003986		
	40	-2.98	-0.004197		
	50	-2.53	-0.003563		
64QAM					
3.91	-30	-1.82	-0.002563	Within authorized band for Band 17	Pass
	-20	3.48	0.004901		
	-10	-2.75	-0.003873		
	0	-3.72	-0.005239		
	10	-2.06	-0.002901		
	20	3.83	0.005394		
	30	-3.46	-0.004873		
	40	-3.38	-0.004761		
	50	-2.15	-0.003028		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	2.78	0.003915	Within authorized band for Band 17	Pass
	3.91	-4.21	-0.005930		
	4.50	3.16	0.004451		
16QAM					
25	3.45	-5.85	-0.008239	Within authorized band for Band 17	Pass
	3.91	-3.42	-0.004817		
	4.50	2.27	0.003197		
64QAM					
25	3.45	1.54	0.002169	Within authorized band for Band 17	Pass
	3.91	-1.14	-0.001606		
	4.50	1.86	0.002620		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 38 part:

Reference Frequency: LTE Band 38(10MHz) Middle channel=38000 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-5.36	-0.002066	Within authorized band for Band 38	Pass
	-20	8.37	0.003225		
	-10	-4.49	-0.001730		
	0	-9.76	-0.003761		
	10	4.59	0.001769		
	20	-5.92	-0.002281		
	30	-3.48	-0.001341		
	40	-4.68	-0.001803		
	50	-4.59	-0.001769		
16QAM					
3.91	-30	4.61	0.001776	Within authorized band for Band 38	Pass
	-20	7.75	0.002987		
	-10	10.06	0.003877		
	0	4.11	0.001584		
	10	-6.74	-0.002597		
	20	-8.07	-0.003110		
	30	-4.84	-0.001865		
	40	3.81	0.001468		
	50	4.39	0.001692		
64QAM					
3.91	-30	-5.64	-0.002173	Within authorized band for Band 38	Pass
	-20	4.79	0.001846		
	-10	-4.29	-0.001653		
	0	-4.56	-0.001757		
	10	-7.47	-0.002879		
	20	2.30	0.000886		
	30	-5.16	-0.001988		
	40	6.32	0.002435		
	50	-7.55	-0.002909		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.08	-0.002343	Within authorized band for Band 38	Pass
	3.91	4.05	0.001561		
	4.50	-5.97	-0.002301		
16QAM					
25	3.45	-29.51	-0.011372	Within authorized band for Band 38	Pass
	3.91	4.33	0.001669		
	4.50	11.34	0.004370		
64QAM					
25	3.45	7.47	0.002879	Within authorized band for Band 38	Pass
	3.91	4.53	0.001746		
	4.50	-5.98	-0.002304		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40640 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-4.08	-0.001573	Within authorized band for Band 41	Pass
	-20	2.16	0.000833		
	-10	-7.08	-0.002730		
	0	-5.01	-0.001932		
	10	-9.90	-0.003818		
	20	-9.38	-0.003617		
	30	4.18	0.001612		
	40	-4.08	-0.001573		
	50	-7.24	-0.002792		
16QAM					
3.91	-30	-8.90	-0.003432	Within authorized band for Band 41	Pass
	-20	2.10	0.000810		
	-10	-5.85	-0.002256		
	0	-3.06	-0.001180		
	10	-7.87	-0.003035		
	20	3.25	0.001253		
	30	-9.00	-0.003471		
	40	3.00	0.001157		
	50	-5.04	-0.001944		
64QAM					
3.91	-30	-10.24	-0.003949	Within authorized band for Band 41	Pass
	-20	-8.97	-0.003459		
	-10	-10.00	-0.003857		
	0	-4.45	-0.001716		
	10	-6.48	-0.002499		
	20	-10.67	-0.004115		
	30	-8.10	-0.003124		
	40	-4.05	-0.001562		
	50	-8.23	-0.003174		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.33	-0.003598	Within authorized band for Band 41	Pass
	3.91	-9.33	-0.003598		
	4.50	-3.42	-0.001319		
16QAM					
25	3.45	-10.79	-0.004161	Within authorized band for Band41	Pass
	3.91	-3.55	-0.001369		
	4.50	-8.83	-0.003405		
64QAM					
25	3.45	5.41	0.002086	Within authorized band for Band41	Pass
	3.91	-7.34	-0.002831		
	4.50	-4.99	-0.001924		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Reference Frequency: LTE Band 42 (10MHz) Middle channel=42590 Frequency=3500.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	1220.00	0.348571	Within authorized band for Band 42	Pass
	-20	-3700.00	-1.057143		
	-10	-10.00	-0.002857		
	0	-80.00	-0.022857		
	10	-2480.00	-0.708571		
	20	-640.00	-0.182857		
	30	-630.00	-0.180000		
	40	-3360.00	-0.960000		
	50	-200.00	-0.057143		
16QAM					
3.91	-30	-6630.00	-1.894286	Within authorized band for Band 42	Pass
	-20	-2510.00	-0.717143		
	-10	-1200.00	-0.342857		
	0	-690.00	-0.197143		
	10	-2090.00	-0.597143		
	20	-8050.00	-2.300000		
	30	-710.00	-0.202857		
	40	-3040.00	-0.868571		
	50	-5560.00	-1.588571		
64QAM					
3.91	-30	-640.00	-0.182857	Within authorized band for Band 42	Pass
	-20	-10.00	-0.002857		
	-10	1320.00	0.377143		
	0	-3340.00	-0.954286		
	10	-700.00	-0.200000		
	20	-720.00	-0.205714		
	30	-730.00	-0.208571		
	40	4640.00	1.325714		
	50	-2570.00	-0.734286		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-1430.00	-0.408571	Within authorized band for Band 42	Pass
	3.91	-2210.00	-0.631429		
	4.50	-1440.00	-0.411429		
16QAM					
25	3.45	-1170.00	-0.334286	Within authorized band for Band42	Pass
	3.91	-2650.00	-0.757143		
	4.50	-6830.00	-1.951429		
64QAM					
25	3.45	-2730.00	-0.780000	Within authorized band for Band42	Pass
	3.91	-20.00	-0.005714		
	4.50	330.00	0.094286		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 66 part:

Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.91	-30	-3.81	-0.002183	Within authorized band for Band 66	Pass
	-20	-4.19	-0.002401		
	-10	-5.02	-0.002877		
	0	-4.85	-0.002779		
	10	4.22	0.002418		
	20	-3.59	-0.002057		
	30	-3.33	-0.001908		
	40	-4.42	-0.002533		
	50	-2.85	-0.001633		
16QAM					
3.91	-30	-6.28	-0.003599	Within authorized band for Band 66	Pass
	-20	-5.76	-0.003301		
	-10	-4.46	-0.002556		
	0	-5.16	-0.002957		
	10	-5.28	-0.003026		
	20	-4.76	-0.002728		
	30	-5.45	-0.003123		
	40	-2.62	-0.001501		
	50	-5.88	-0.003370		
64QAM					
3.91	-30	-4.12	-0.002361	Within authorized band for Band 66	Pass
	-20	-4.58	-0.002625		
	-10	-3.18	-0.001822		
	0	-4.36	-0.002499		
	10	-5.54	-0.003175		
	20	3.02	0.001731		
	30	-7.80	-0.004470		
	40	3.22	0.001845		
	50	-3.30	-0.001891		

Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.79	-0.002172	Within authorized band for Band 66	Pass
	3.91	-5.06	-0.002900		
	4.50	-2.69	-0.001542		
16QAM					
25	3.45	-4.94	-0.002831	Within authorized band for Band 66	Pass
	3.91	-5.22	-0.002991		
	4.50	2.52	0.001444		
64QAM					
25	3.45	-2.70	-0.001547	Within authorized band for Band 66	Pass
	3.91	-6.11	-0.003501		
	4.50	-3.29	-0.001885		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

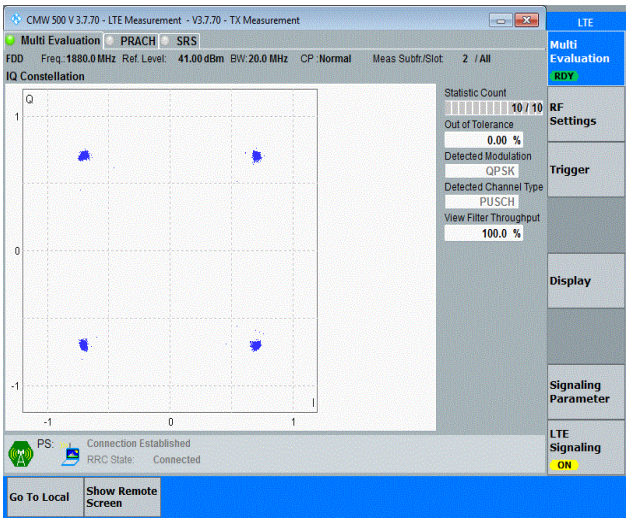
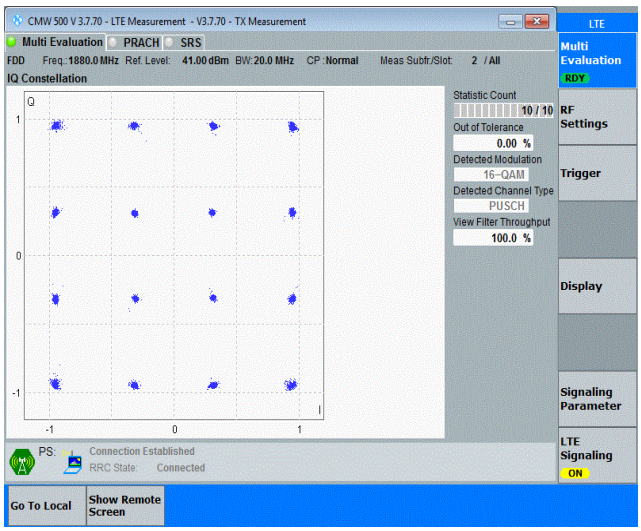
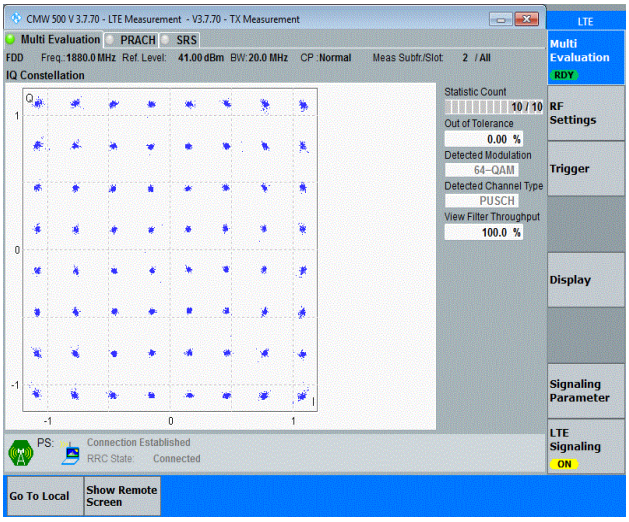
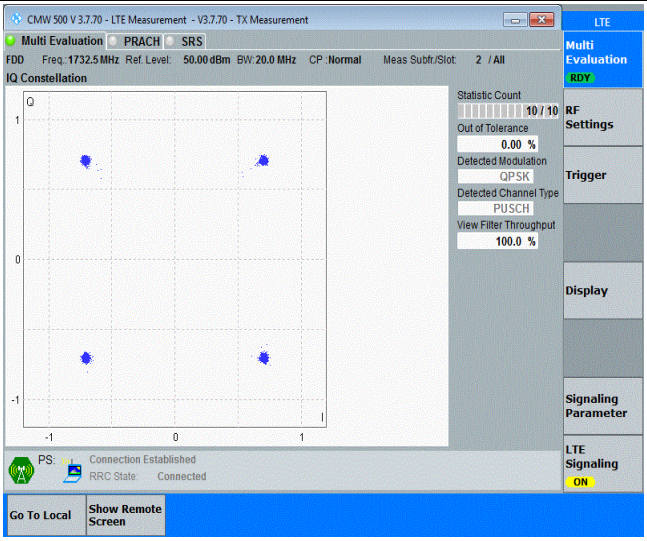
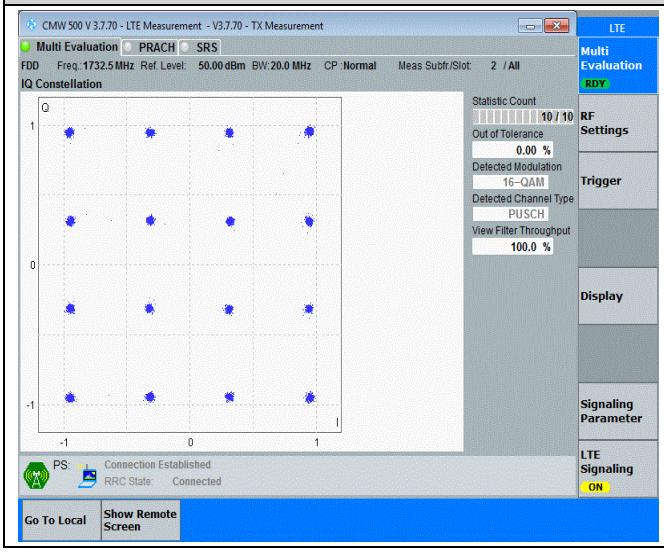
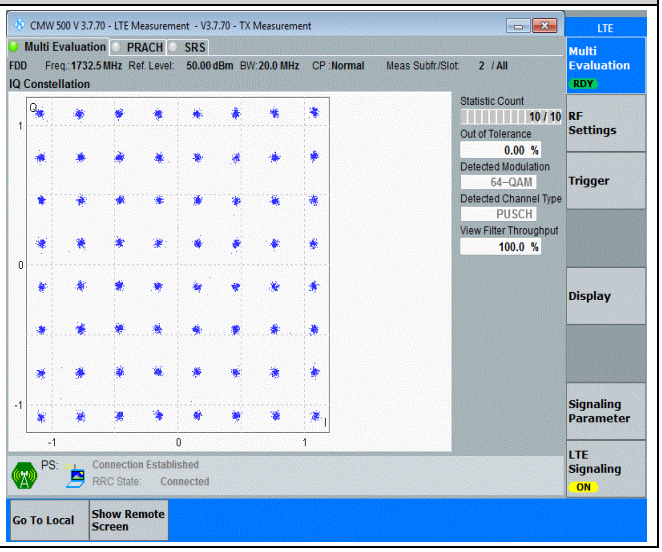
Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	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
Band66	20MHz	QPSK	132322	100RB#0	PASS	PASS
Band66	20MHz	16QAM	132322	100RB#0	PASS	PASS
Band66	20MHz	64QAM	132322	100RB#0	PASS	PASS
Band42(3450-3550)	20MHz	QPSK	42590	100RB#0	PASS	PASS
Band42(3450-3550)	20MHz	64QAM	42590	100RB#0	PASS	PASS
Band42(3450-3550)	20MHz	16QAM	42590	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

Band2-20MHz-QPSK-18900-100RB#0	Band2-20MHz-16QAM-18900-100RB#0
	
Band2-20MHz-64QAM-18900-100RB#0	**Band4-20MHz-QPSK-20175-100RB#0**
	
Band4-20MHz-16QAM-20175-100RB#0	**Band4-20MHz-64QAM-20175-100RB#0**