Appendix Test Data for LTE band 12(Conducted Measurement)

Product Name: LEARNING CAMERA

Trade Mark:

Test Model: DEX-01

FCC ID: 2BOSD-DEX-01

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: RF output power

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
12	1.4	699.7	QPSK	6	LOW	22.73	28.76	6.03	13	-2.23	18.35	34.8	Pass
12	1.4	699.7	QPSK	3	LOW	23.84	29.77	5.93	13	-2.23	19.46	34.8	Pass
12	1.4	699.7	QPSK	3	MID	23.84	29.83	5.99	13	-2.23	19.46	34.8	Pass
12	1.4	699.7	QPSK	3	HIGH	23.8	29.78	5.98	13	-2.23	19.42	34.8	Pass
12	1.4	699.7	QPSK	1	LOW	23.64	28.75	5.11	13	-2.23	19.26	34.8	Pass
12	1.4	699.7	QPSK	1	MID	23.82	28.83	5.01	13	-2.23	19.44	34.8	Pass
12	1.4	699.7	QPSK	1	HIGH	23.62	28.68	5.06	13	-2.23	19.24	34.8	Pass
12	1.4	699.7	16QAM	6	LOW	21.69	28.71	7.02	13	-2.23	17.31	34.8	Pass
12	1.4	699.7	16QAM	3	LOW	22.98	29.37	6.39	13	-2.23	18.6	34.8	Pass
12	1.4	699.7	16QAM	3	MID	22.96	29.36	6.40	13	-2.23	18.58	34.8	Pass
12	1.4	699.7	16QAM	3	HIGH	22.96	29.25	6.29	13	-2.23	18.58	34.8	Pass
12	1.4	699.7	16QAM	1	LOW	22.72	28.33	5.61	13	-2.23	18.34	34.8	Pass
12	1.4	699.7	16QAM	1	MID	22.86	28.39	5.53	13	-2.23	18.48	34.8	Pass
12	1.4	699.7	16QAM	1	HIGH	22.73	28.23	5.5	13	-2.23	18.35	34.8	Pass
12	1.4	707.5	QPSK	6	LOW	22.68	29.06	6.38	13	-2.23	18.3	34.8	Pass
12	1.4	707.5	QPSK	3	LOW	23.76	29.8	6.04	13	-2.23	19.38	34.8	Pass
12	1.4	707.5	QPSK	3	MID	23.75	29.78	6.03	13	-2.23	19.37	34.8	Pass
12	1.4	707.5	QPSK	3	HIGH	23.69	29.7	6.01	13	-2.23	19.31	34.8	Pass
12	1.4	707.5	QPSK	1	LOW	23.66	29.83	6.17	13	-2.23	19.28	34.8	Pass
12	1.4	707.5	QPSK	1	MID	23.83	29.85	6.02	13	-2.23	19.45	34.8	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
12	1.4	707.5	QPSK	1	HIGH	23.58	29.69	6.11	13	-2.23	19.2	34.8	Pass
12	1.4	707.5	16QAM	6	LOW	21.76	29.35	7.59	13	-2.23	17.38	34.8	Pass
12	1.4	707.5	16QAM	3	LOW	22.92	29.53	6.61	13	-2.23	18.54	34.8	Pass
12	1.4	707.5	16QAM	3	MID	22.98	29.6	6.62	13	-2.23	18.6	34.8	Pass
12	1.4	707.5	16QAM	3	HIGH	23	29.56	6.56	13	-2.23	18.62	34.8	Pass
12	1.4	707.5	16QAM	1	LOW	22.71	28.85	6.14	13	-2.23	18.33	34.8	Pass
12	1.4	707.5	16QAM	1	MID	22.84	28.96	6.12	13	-2.23	18.46	34.8	Pass
12	1.4	707.5	16QAM	1	HIGH	22.69	28.82	6.13	13	-2.23	18.31	34.8	Pass
12	1.4	715.3	QPSK	6	LOW	22.72	28.51	5.79	13	-2.23	18.34	34.8	Pass
12	1.4	715.3	QPSK	3	LOW	23.71	29.02	5.31	13	-2.23	19.33	34.8	Pass
12	1.4	715.3	QPSK	3	MID	23.73	29.02	5.29	13	-2.23	19.35	34.8	Pass
12	1.4	715.3	QPSK	3	HIGH	23.72	28.69	4.97	13	-2.23	19.34	34.8	Pass
12	1.4	715.3	QPSK	1	LOW	23.64	28.86	5.22	13	-2.23	19.26	34.8	Pass
12	1.4	715.3	QPSK	1	MID	23.82	28.63	4.81	13	-2.23	19.44	34.8	Pass
12	1.4	715.3	QPSK	1	HIGH	23.63	28.25	4.62	13	-2.23	19.25	34.8	Pass
12	1.4	715.3	16QAM	6	LOW	21.76	28.31	6.55	13	-2.23	17.38	34.8	Pass
12	1.4	715.3	16QAM	3	LOW	22.76	29.11	6.35	13	-2.23	18.38	34.8	Pass
12	1.4	715.3	16QAM	3	MID	22.76	29.09	6.33	13	-2.23	18.38	34.8	Pass
12	1.4	715.3	16QAM	3	HIGH	22.8	28.82	6.02	13	-2.23	18.42	34.8	Pass
12	1.4	715.3	16QAM	1	LOW	22.76	27.87	5.11	13	-2.23	18.38	34.8	Pass
12	1.4	715.3	16QAM	1	MID	22.94	27.93	4.99	13	-2.23	18.56	34.8	Pass
12	1.4	715.3	16QAM	1	HIGH	22.78	27.67	4.89	13	-2.23	18.40	34.8	Pass
12	3	700.5	QPSK	15	LOW	22.71	28.69	5.98	13	-2.23	18.33	34.8	Pass
12	3	700.5	QPSK	8	LOW	22.73	29.16	6.43	13	-2.23	18.35	34.8	Pass
12	3	700.5	QPSK	8	MID	22.73	28.82	6.09	13	-2.23	18.35	34.8	Pass
12	3	700.5	QPSK	8	HIGH	22.73	28.87	6.14	13	-2.23	18.35	34.8	Pass
12	3	700.5	QPSK	1	LOW	23.74	29.2	5.46	13	-2.23	19.36	34.8	Pass
12	3	700.5	QPSK	1	MID	23.73	29.14	5.41	13	-2.23	19.35	34.8	Pass
12	3	700.5	QPSK	1	HIGH	23.7	29.18	5.48	13	-2.23	19.32	34.8	Pass
12	3	700.5	16QAM	15	LOW	21.73	28.97	7.24	13	-2.23	17.35	34.8	Pass
12	3	700.5	16QAM	8	LOW	21.72	28.47	6.75	13	-2.23	17.34	34.8	Pass
12	3	700.5	16QAM	8	MID	21.75	28.53	6.78	13	-2.23	17.37	34.8	Pass
12	3	700.5	16QAM	8	HIGH	21.73	28.42	6.69	13	-2.23	17.35	34.8	Pass
12	3	700.5	16QAM	1	LOW	22.91	28.07	5.16	13	-2.23	18.53	34.8	Pass
12	3	700.5	16QAM	1	MID	22.87	27.99	5.12	13	-2.23	18.49	34.8	Pass
12	3	700.5	16QAM	1	HIGH	22.89	28.02	5.13	13	-2.23	18.51	34.8	Pass
12	3	707.5	QPSK	15	LOW	22.72	29.06	6.34	13	-2.23	18.34	34.8	Pass
12	3	707.5	QPSK	8	LOW	22.72	29.18	6.46	13	-2.23	18.34	34.8	Pass
12	3	707.5	QPSK	8	MID	22.74	29.22	6.48	13	-2.23	18.36	34.8	Pass
12	3	707.5	QPSK	8	HIGH	22.7	29.16	6.46	13	-2.23	18.32	34.8	Pass
12	3	707.5	QPSK	1	LOW	23.7	28.87	5.17	13	-2.23	19.32	34.8	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
12	3	707.5	QPSK	1	MID	23.68	28.84	5.16	13	-2.23	19.3	34.8	Pass
12	3	707.5	QPSK	1	HIGH	23.6	28.72	5.12	13	-2.23	19.22	34.8	Pass
12	3	707.5	16QAM	15	LOW	21.78	28.97	7.19	13	-2.23	17.40	34.8	Pass
12	3	707.5	16QAM	8	LOW	21.82	28.56	6.74	13	-2.23	17.44	34.8	Pass
12	3	707.5	16QAM	8	MID	21.83	28.55	6.72	13	-2.23	17.45	34.8	Pass
12	3	707.5	16QAM	8	HIGH	21.79	28.51	6.72	13	-2.23	17.41	34.8	Pass
12	3	707.5	16QAM	1	LOW	22.81	28.4	5.59	13	-2.23	18.43	34.8	Pass
12	3	707.5	16QAM	1	MID	22.79	28.38	5.59	13	-2.23	18.41	34.8	Pass
12	3	707.5	16QAM	1	HIGH	22.7	28.33	5.63	13	-2.23	18.32	34.8	Pass
12	3	714.5	QPSK	15	LOW	22.72	28.79	6.07	13	-2.23	18.34	34.8	Pass
12	3	714.5	QPSK	8	LOW	22.75	28.94	6.19	13	-2.23	18.37	34.8	Pass
12	3	714.5	QPSK	8	MID	22.74	28.95	6.21	13	-2.23	18.36	34.8	Pass
12	3	714.5	QPSK	8	HIGH	22.72	28.84	6.12	13	-2.23	18.34	34.8	Pass
12	3	714.5	QPSK	1	LOW	23.67	28.67	5	13	-2.23	19.29	34.8	Pass
12	3	714.5	QPSK	1	MID	23.6	28.57	4.97	13	-2.23	19.22	34.8	Pass
12	3	714.5	QPSK	1	HIGH	23.64	28.04	4.40	13	-2.23	19.26	34.8	Pass
12	3	714.5	16QAM	15	LOW	21.78	28.89	7.11	13	-2.23	17.40	34.8	Pass
12	3	714.5	16QAM	8	LOW	21.96	29.01	7.05	13	-2.23	17.58	34.8	Pass
12	3	714.5	16QAM	8	MID	21.93	29.02	7.09	13	-2.23	17.55	34.8	Pass
12	3	714.5	16QAM	8	HIGH	21.94	28.84	6.90	13	-2.23	17.56	34.8	Pass
12	3	714.5	16QAM	1	LOW	23.34	29.29	5.95	13	-2.23	18.96	34.8	Pass
12	3	714.5	16QAM	1	MID	23.27	29.23	5.96	13	-2.23	18.89	34.8	Pass
12	3	714.5	16QAM	1	HIGH	23.21	28.56	5.35	13	-2.23	18.83	34.8	Pass
12	5	701.5	QPSK	25	LOW	22.71	29.02	6.31	13	-2.23	18.33	34.8	Pass
12	5	701.5	QPSK	12	LOW	22.69	28.77	6.08	13	-2.23	18.31	34.8	Pass
12	5	701.5	QPSK	12	MID	22.7	28.73	6.03	13	-2.23	18.32	34.8	Pass
12	5	701.5	QPSK	12	HIGH	22.75	28.8	6.05	13	-2.23	18.37	34.8	Pass
12	5	701.5	QPSK	1	LOW	23.63	29.48	5.85	13	-2.23	19.25	34.8	Pass
12	5	701.5	QPSK	1	MID	23.71	29.54	5.83	13	-2.23	19.33	34.8	Pass
12	5	701.5	QPSK	1	HIGH	23.65	29.76	6.11	13	-2.23	19.27	34.8	Pass
12	5	701.5	16QAM	25	LOW	21.79	29.37	7.58	13	-2.23	17.41	34.8	Pass
12	5	701.5	16QAM	12	LOW	21.67	29.38	7.71	13	-2.23	17.29	34.8	Pass
12	5	701.5	16QAM	12	MID	21.72	29.33	7.61	13	-2.23	17.34	34.8	Pass
12	5	701.5	16QAM	12	HIGH	21.74	29.47	7.73	13	-2.23	17.36	34.8	Pass
12	5	701.5	16QAM	1	LOW	22.58	28.27	5.69	13	-2.23	18.2	34.8	Pass
12	5	701.5	16QAM	1	MID	22.7	28.39	5.69	13	-2.23	18.32	34.8	Pass
12	5	701.5	16QAM	1	HIGH	22.58	28.34	5.76	13	-2.23	18.2	34.8	Pass
12	5	707.5	QPSK	25	LOW	22.75	29.2	6.45	13	-2.23	18.37	34.8	Pass
12	5	707.5	QPSK	12	LOW	22.8	29.53	6.73	13	-2.23	18.42	34.8	Pass
12	5	707.5	QPSK	12	MID	22.78	29.46	6.68	13	-2.23	18.40	34.8	Pass
12	5	707.5	QPSK	12	HIGH	22.79	29.38	6.59	13	-2.23	18.41	34.8	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
12	5	707.5	QPSK	1	LOW	23.62	29.27	5.65	13	-2.23	19.24	34.8	Pass
12	5	707.5	QPSK	1	MID	23.69	29.25	5.56	13	-2.23	19.31	34.8	Pass
12	5	707.5	QPSK	1	HIGH	23.59	29.08	5.49	13	-2.23	19.21	34.8	Pass
12	5	707.5	16QAM	25	LOW	21.78	29.18	7.40	13	-2.23	17.40	34.8	Pass
12	5	707.5	16QAM	12	LOW	21.82	29.06	7.24	13	-2.23	17.44	34.8	Pass
12	5	707.5	16QAM	12	MID	21.81	29.07	7.26	13	-2.23	17.43	34.8	Pass
12	5	707.5	16QAM	12	HIGH	21.83	28.95	7.12	13	-2.23	17.45	34.8	Pass
12	5	707.5	16QAM	1	LOW	23.02	29.05	6.03	13	-2.23	18.64	34.8	Pass
12	5	707.5	16QAM	1	MID	23.1	29.06	5.96	13	-2.23	18.72	34.8	Pass
12	5	707.5	16QAM	1	HIGH	22.96	28.88	5.92	13	-2.23	18.58	34.8	Pass
12	5	713.5	QPSK	25	LOW	22.7	29.02	6.32	13	-2.23	18.32	34.8	Pass
12	5	713.5	QPSK	12	LOW	22.77	28.98	6.21	13	-2.23	18.39	34.8	Pass
12	5	713.5	QPSK	12	MID	22.76	28.95	6.19	13	-2.23	18.38	34.8	Pass
12	5	713.5	QPSK	12	HIGH	22.61	28.74	6.13	13	-2.23	18.23	34.8	Pass
12	5	713.5	QPSK	1	LOW	23.54	28.7	5.16	13	-2.23	19.16	34.8	Pass
12	5	713.5	QPSK	1	MID	23.71	28.93	5.22	13	-2.23	19.33	34.8	Pass
12	5	713.5	QPSK	1	HIGH	23.6	28.28	4.68	13	-2.23	19.22	34.8	Pass
12	5	713.5	16QAM	25	LOW	21.79	29.06	7.27	13	-2.23	17.41	34.8	Pass
12	5	713.5	16QAM	12	LOW	21.72	28.65	6.93	13	-2.23	17.34	34.8	Pass
12	5	713.5	16QAM	12	MID	21.79	28.79	7	13	-2.23	17.41	34.8	Pass
12	5	713.5	16QAM	12	HIGH	21.59	28.79	7.20	13	-2.23	17.21	34.8	Pass
12	5	713.5	16QAM	1	LOW	22.73	28.75	6.02	13	-2.23	18.35	34.8	Pass
12	5	713.5	16QAM	1	MID	22.82	28.9	6.08	13	-2.23	18.44	34.8	Pass
12	5	713.5	16QAM	1	HIGH	22.7	28.3	5.60	13	-2.23	18.32	34.8	Pass
12	10	704	QPSK	50	LOW	22.8	29.36	6.56	13	-2.23	18.42	34.8	Pass
12	10	704	QPSK	25	LOW	22.83	29.45	6.62	13	-2.23	18.45	34.8	Pass
12	10	704	QPSK	25	MID	22.83	29.48	6.65	13	-2.23	18.45	34.8	Pass
12	10	704	QPSK	25	HIGH	22.81	29.64	6.83	13	-2.23	18.43	34.8	Pass
12	10	704	QPSK	1	LOW	23.58	28.69	5.11	13	-2.23	19.2	34.8	Pass
12	10	704	QPSK	1	MID	23.84	29.02	5.18	13	-2.23	19.46	34.8	Pass
12	10	704	QPSK	1	HIGH	23.61	28.76	5.15	13	-2.23	19.23	34.8	Pass
12	10	704	16QAM	50	LOW	21.83	29.62	7.79	13	-2.23	17.45	34.8	Pass
12	10	704	16QAM	25	LOW	21.85	29.38	7.53	13	-2.23	17.47	34.8	Pass
12	10	704	16QAM	25	MID	21.91	29.5	7.59	13	-2.23	17.53	34.8	Pass
12	10	704	16QAM	25	HIGH	21.84	29.52	7.68	13	-2.23	17.46	34.8	Pass
12	10	704	16QAM	1	LOW	23.34	29.5	6.16	13	-2.23	18.96	34.8	Pass
12	10	704	16QAM	1	MID	23.52	29.87	6.35	13	-2.23	19.14	34.8	Pass
12	10	704	16QAM	1	HIGH	23.34	29.6	6.26	13	-2.23	18.96	34.8	Pass
12	10	707.5	QPSK	50	LOW	22.82	29.22	6.40	13	-2.23	18.44	34.8	Pass
12	10	707.5	QPSK	25	LOW	22.87	29.27	6.40	13	-2.23	18.49	34.8	Pass
12	10	707.5	QPSK	25	MID	22.86	29.38	6.52	13	-2.23	18.48	34.8	Pass

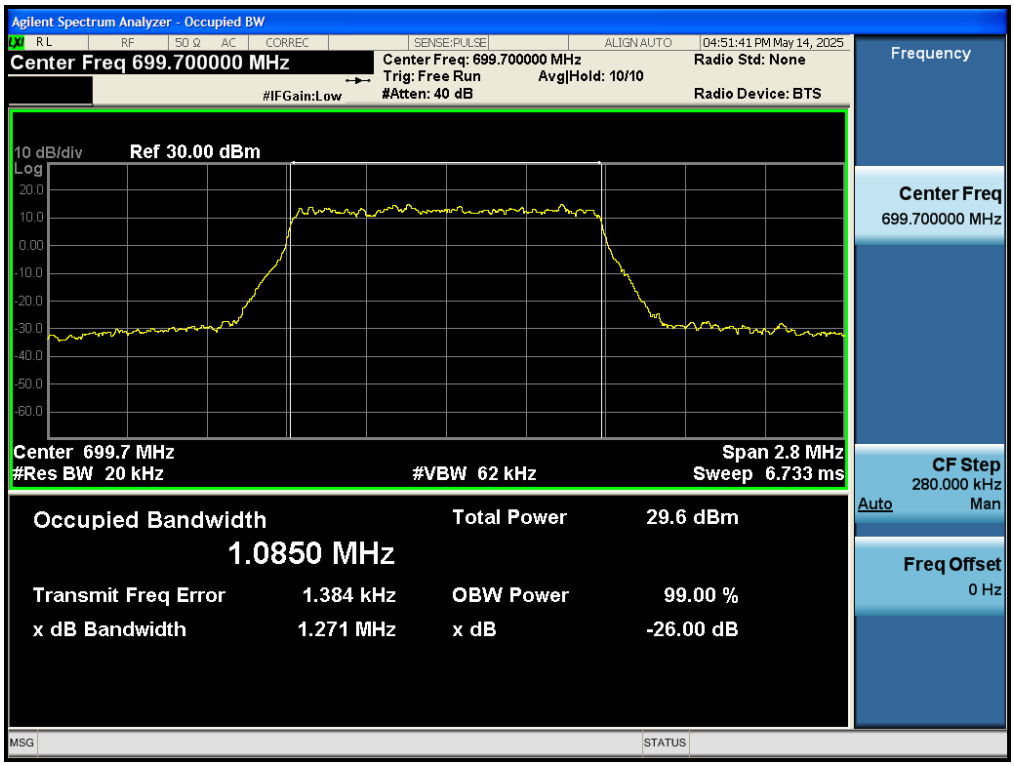
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
12	10	707.5	QPSK	25	HIGH	22.89	29.27	6.38	13	-2.23	18.51	34.8	Pass
12	10	707.5	QPSK	1	LOW	23.71	29.29	5.58	13	-2.23	19.33	34.8	Pass
12	10	707.5	QPSK	1	MID	23.84	29.35	5.51	13	-2.23	19.46	34.8	Pass
12	10	707.5	QPSK	1	HIGH	23.66	28.94	5.28	13	-2.23	19.28	34.8	Pass
12	10	707.5	16QAM	50	LOW	21.91	29.16	7.25	13	-2.23	17.53	34.8	Pass
12	10	707.5	16QAM	25	LOW	21.93	29.65	7.72	13	-2.23	17.55	34.8	Pass
12	10	707.5	16QAM	25	MID	21.92	29.78	7.86	13	-2.23	17.54	34.8	Pass
12	10	707.5	16QAM	25	HIGH	21.98	29.53	7.55	13	-2.23	17.6	34.8	Pass
12	10	707.5	16QAM	1	LOW	22.87	28.04	5.17	13	-2.23	18.49	34.8	Pass
12	10	707.5	16QAM	1	MID	23	28.16	5.16	13	-2.23	18.62	34.8	Pass
12	10	707.5	16QAM	1	HIGH	22.86	27.97	5.11	13	-2.23	18.48	34.8	Pass
12	10	711	QPSK	50	LOW	22.63	28.97	6.34	13	-2.23	18.25	34.8	Pass
12	10	711	QPSK	25	LOW	22.68	29.49	6.81	13	-2.23	18.3	34.8	Pass
12	10	711	QPSK	25	MID	22.7	29.64	6.94	13	-2.23	18.32	34.8	Pass
12	10	711	QPSK	25	HIGH	22.56	29.25	6.69	13	-2.23	18.18	34.8	Pass
12	10	711	QPSK	1	LOW	23.65	28.81	5.16	13	-2.23	19.27	34.8	Pass
12	10	711	QPSK	1	MID	23.79	28.67	4.88	13	-2.23	19.41	34.8	Pass
12	10	711	QPSK	1	HIGH	23.67	28.31	4.64	13	-2.23	19.29	34.8	Pass
12	10	711	16QAM	50	LOW	21.71	29.36	7.65	13	-2.23	17.33	34.8	Pass
12	10	711	16QAM	25	LOW	21.8	29.4	7.60	13	-2.23	17.42	34.8	Pass
12	10	711	16QAM	25	MID	21.81	29.41	7.60	13	-2.23	17.43	34.8	Pass
12	10	711	16QAM	25	HIGH	21.71	29.07	7.36	13	-2.23	17.33	34.8	Pass
12	10	711	16QAM	1	LOW	22.73	28.34	5.61	13	-2.23	18.35	34.8	Pass
12	10	711	16QAM	1	MID	22.8	28.3	5.5	13	-2.23	18.42	34.8	Pass
12	10	711	16QAM	1	HIGH	22.74	28.11	5.37	13	-2.23	18.36	34.8	Pass

Appendix B: Occupied bandwidth

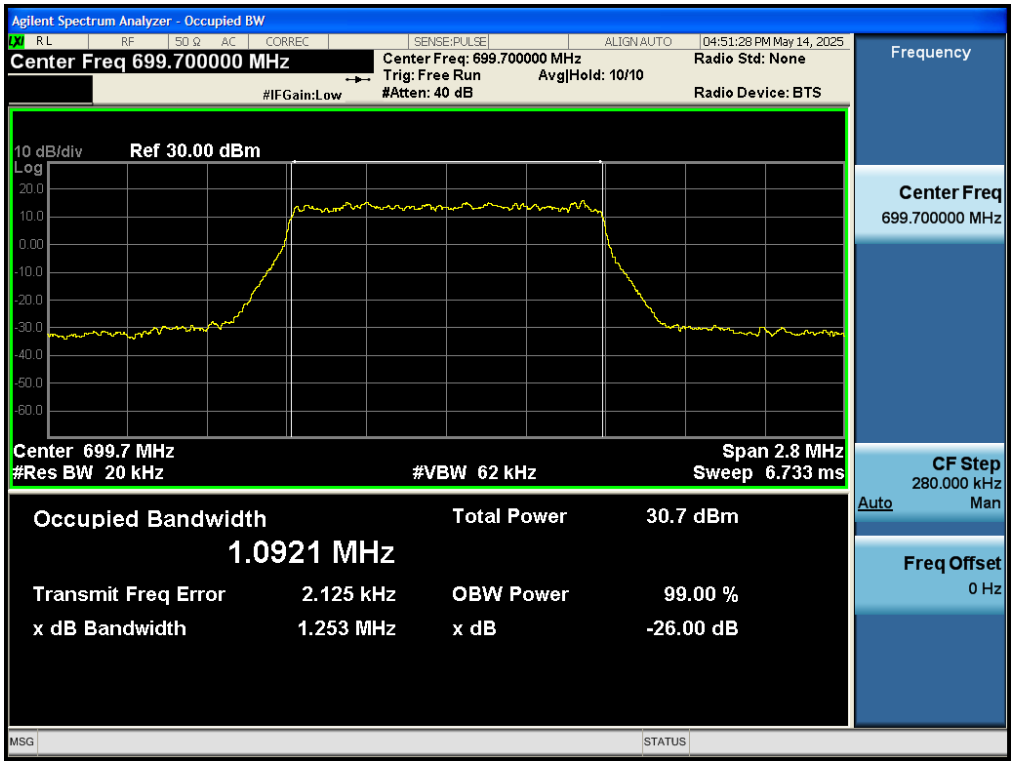
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
12	1.4	699.7	QPSK	6	LOW	1.092	1.253	No limit
12	1.4	699.7	16QAM	6	LOW	1.085	1.271	No limit
12	1.4	707.5	QPSK	6	LOW	1.082	1.257	No limit
12	1.4	707.5	16QAM	6	LOW	1.088	1.291	No limit
12	1.4	715.3	QPSK	6	LOW	1.086	1.286	No limit
12	1.4	715.3	16QAM	6	LOW	1.08	1.245	No limit
12	3	700.5	QPSK	15	LOW	2.678	2.866	No limit
12	3	700.5	16QAM	15	LOW	2.675	2.859	No limit
12	3	707.5	QPSK	15	LOW	2.679	2.86	No limit
12	3	707.5	16QAM	15	LOW	2.677	2.88	No limit
12	3	714.5	QPSK	15	LOW	2.684	2.868	No limit
12	3	714.5	16QAM	15	LOW	2.677	2.863	No limit
12	5	701.5	QPSK	25	LOW	4.491	5.069	No limit
12	5	701.5	16QAM	25	LOW	4.474	4.929	No limit
12	5	707.5	QPSK	25	LOW	4.497	5.003	No limit
12	5	707.5	16QAM	25	LOW	4.49	5.038	No limit
12	5	713.5	QPSK	25	LOW	4.474	5.006	No limit
12	5	713.5	16QAM	25	LOW	4.481	5.031	No limit
12	10	704	QPSK	50	LOW	8.942	9.827	No limit
12	10	704	16QAM	50	LOW	8.942	9.869	No limit
12	10	707.5	QPSK	50	LOW	8.99	9.934	No limit
12	10	707.5	16QAM	50	LOW	8.961	9.946	No limit
12	10	711	QPSK	50	LOW	8.937	9.787	No limit
12	10	711	16QAM	50	LOW	8.951	9.858	No limit

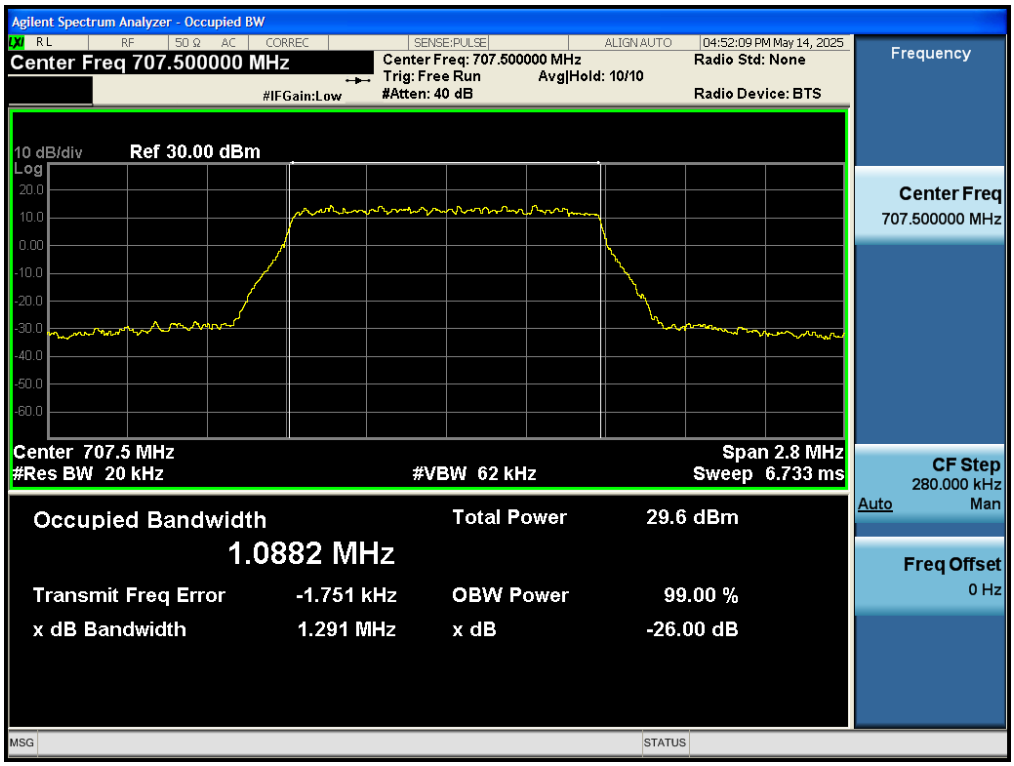
Test Graphs



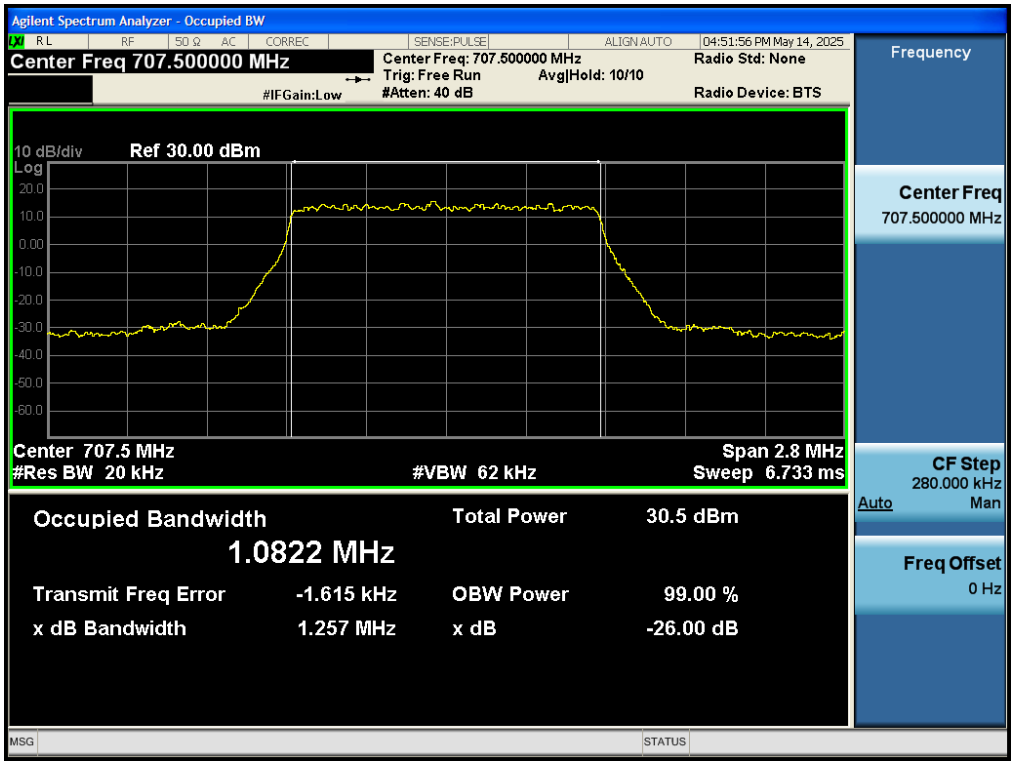
Test_Graph_band12_699.7MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



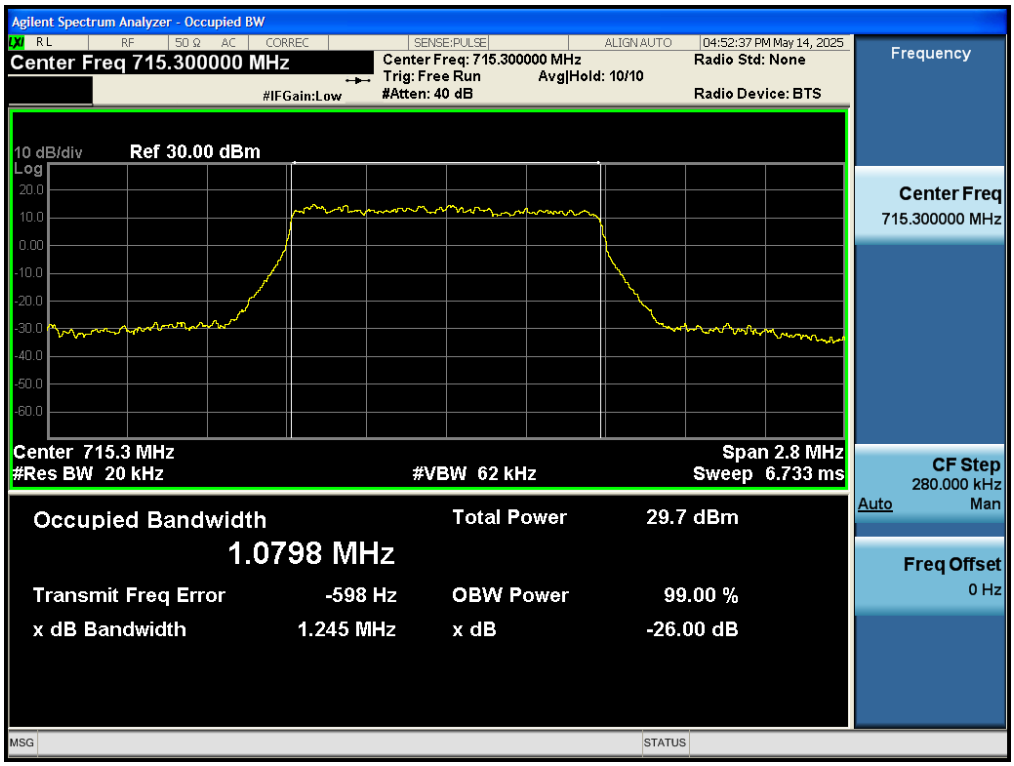
Test_Graph_band12_699.7MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



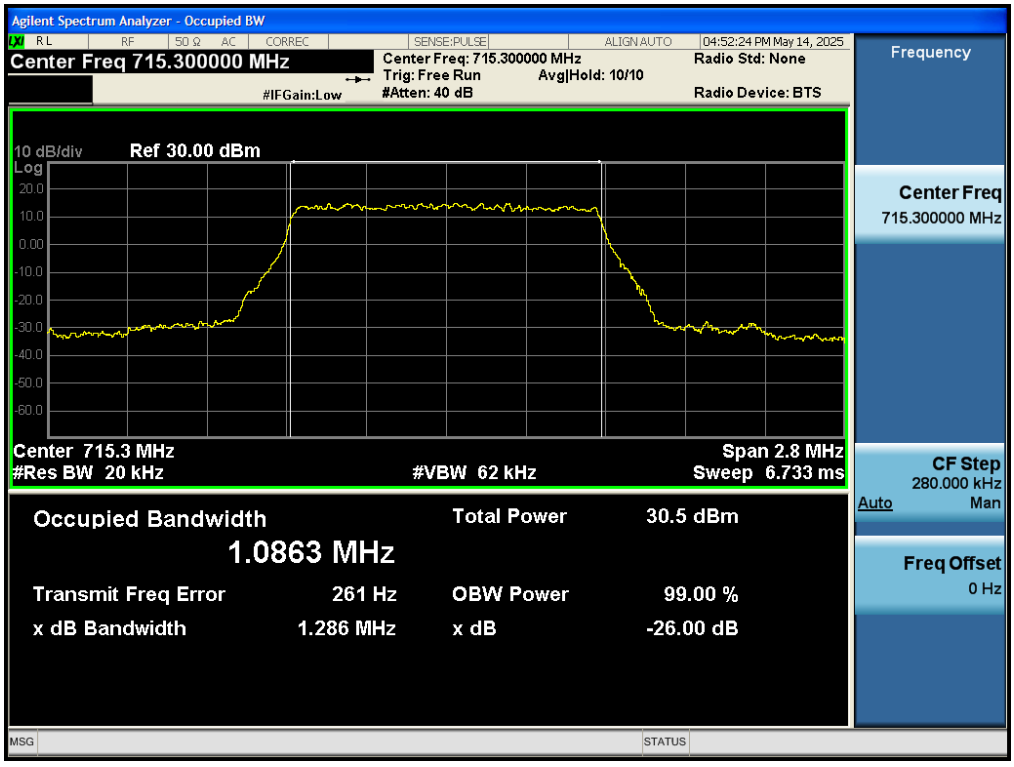
Test_Graph_band12_707.5MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



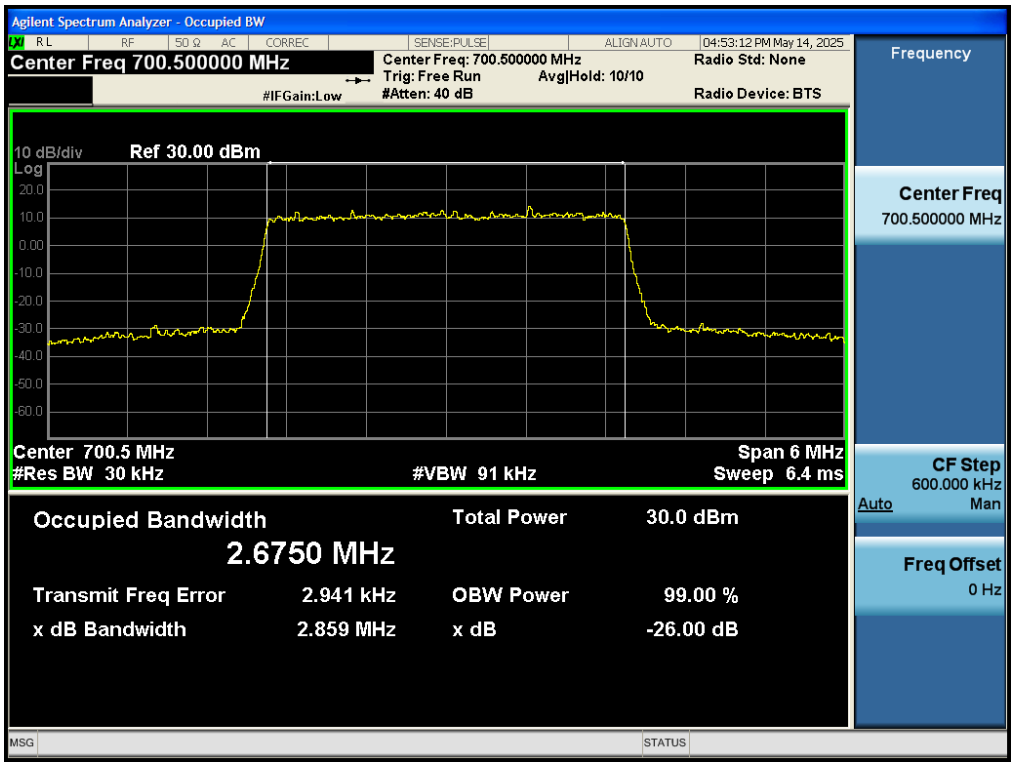
Test_Graph_band12_707.5MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



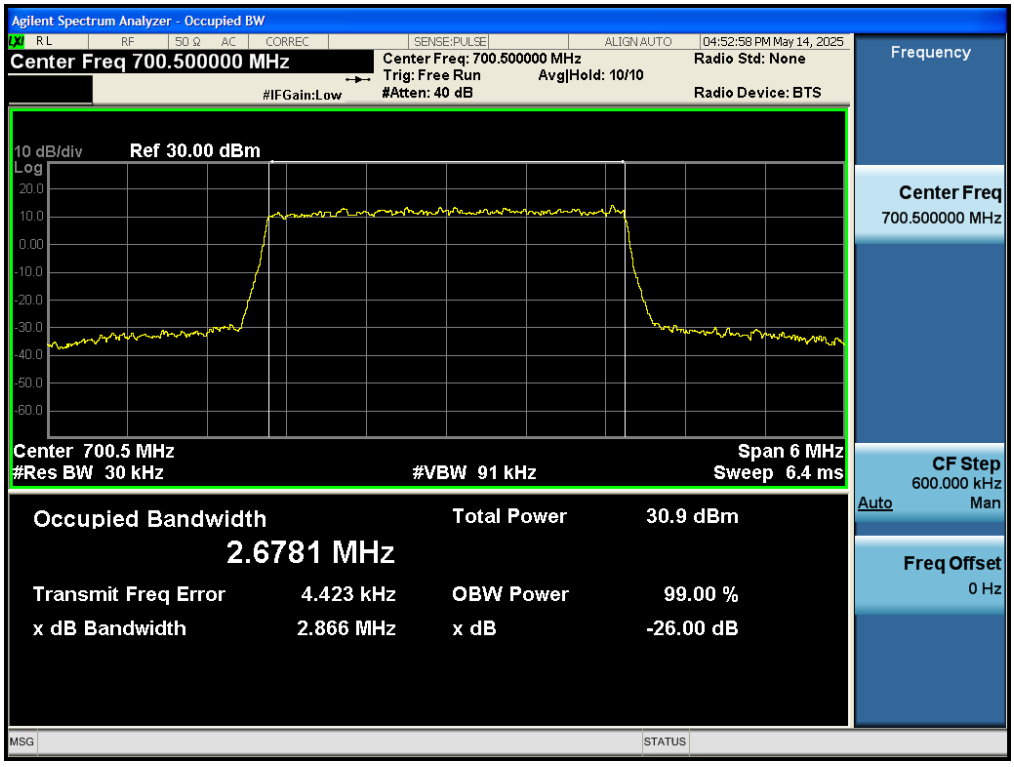
Test_Graph_band12_715.3MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



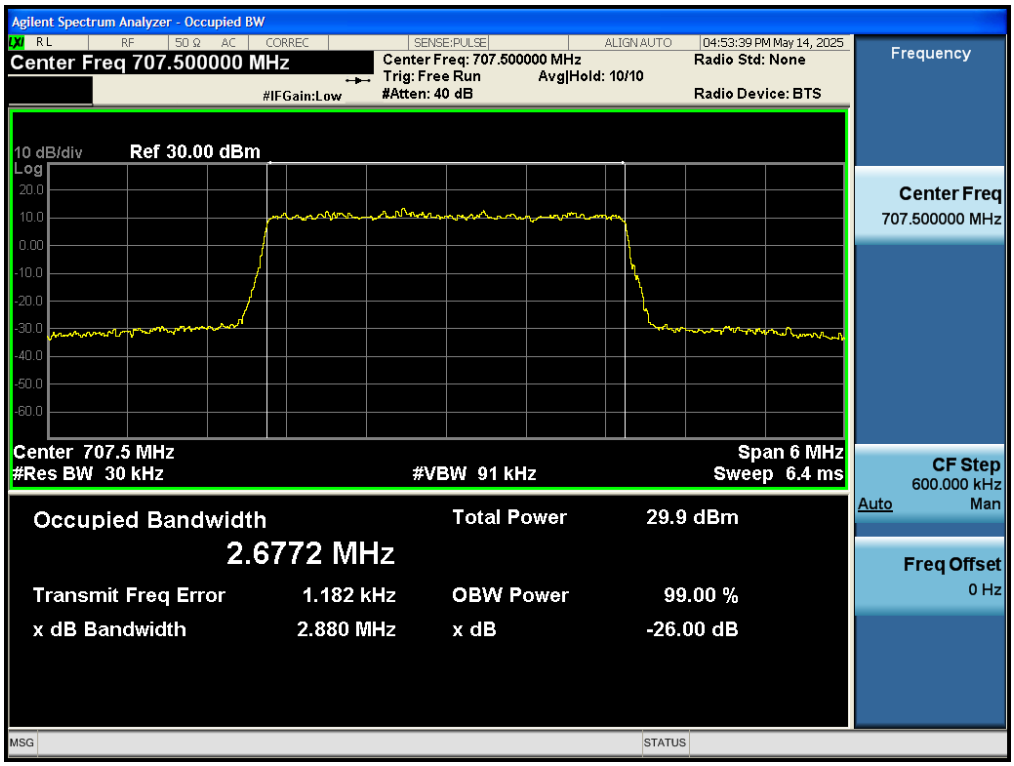
Test_Graph_band12_715.3MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



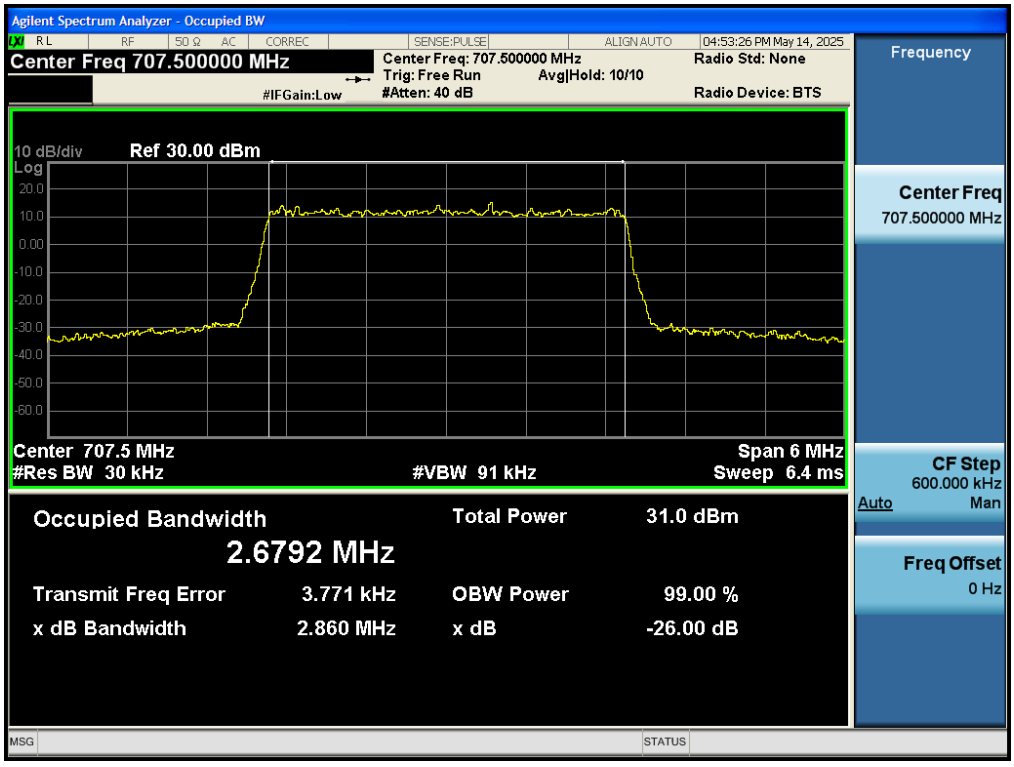
Test_Graph_band12_700.5MHz_3M_16QAM_15RB#LOW_OBW&EBW



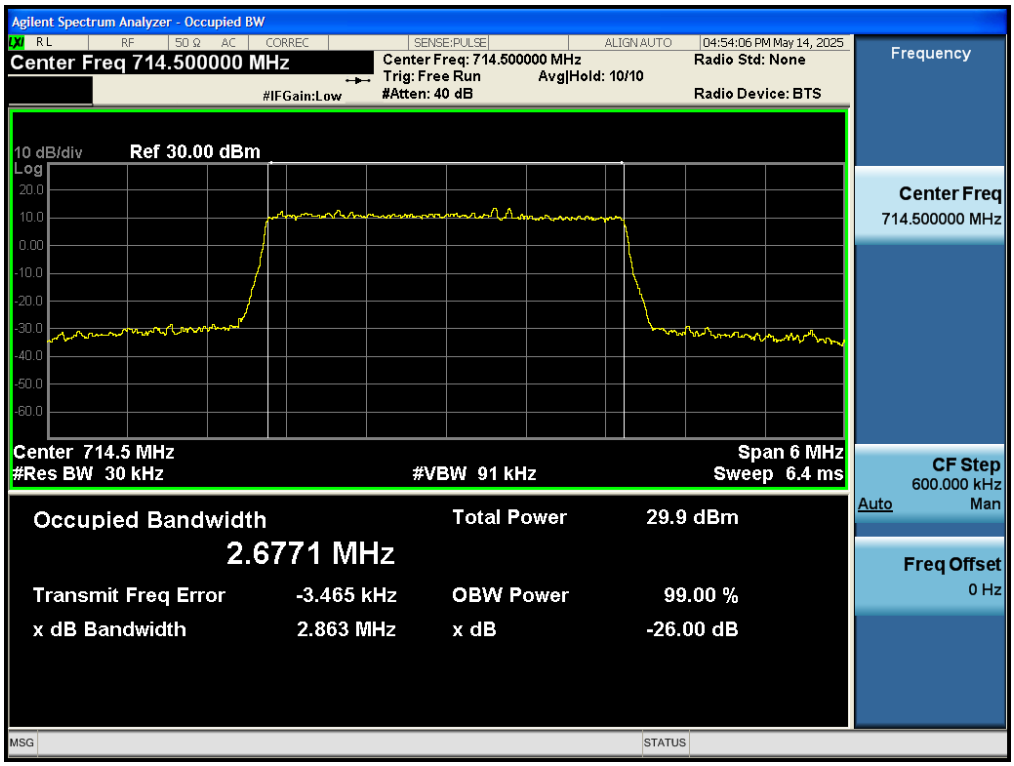
Test_Graph_band12_700.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



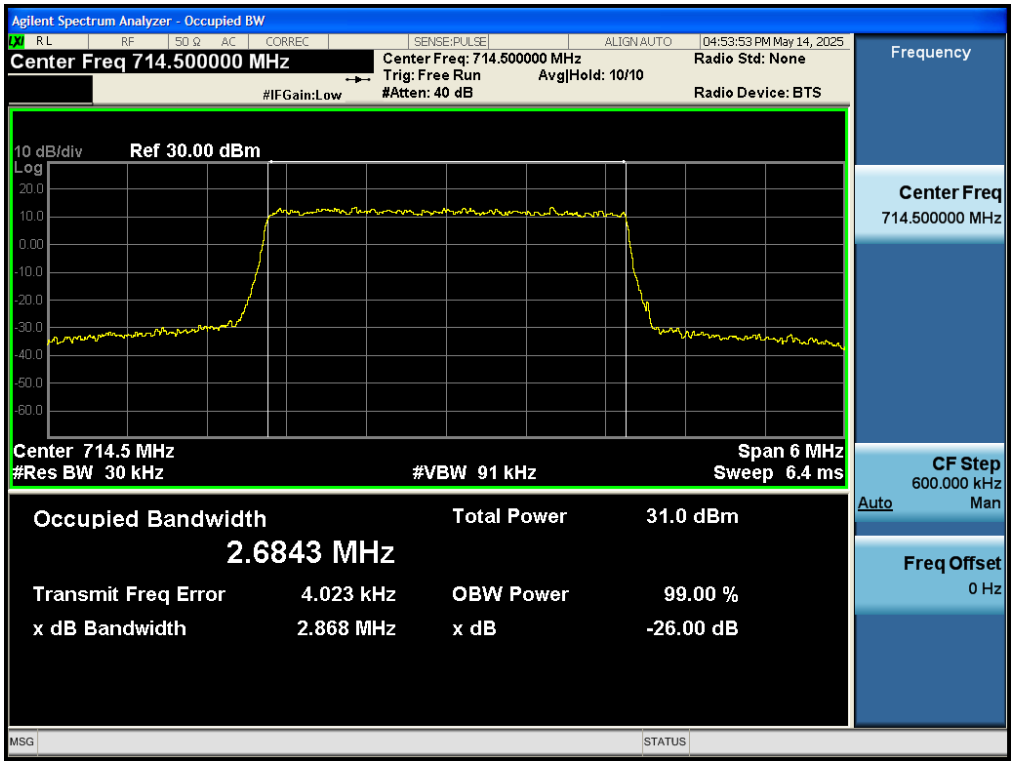
Test_Graph_band12_707.5MHz_3M_16QAM_15RB#LOW_OBW&EBW



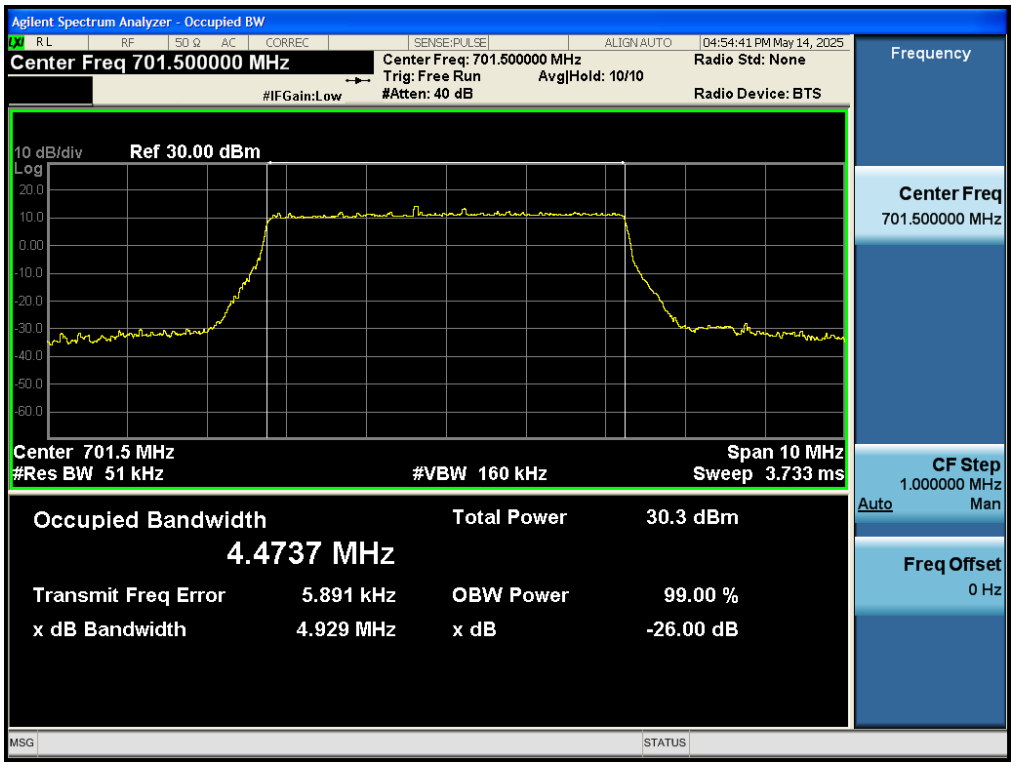
Test_Graph_band12_707.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



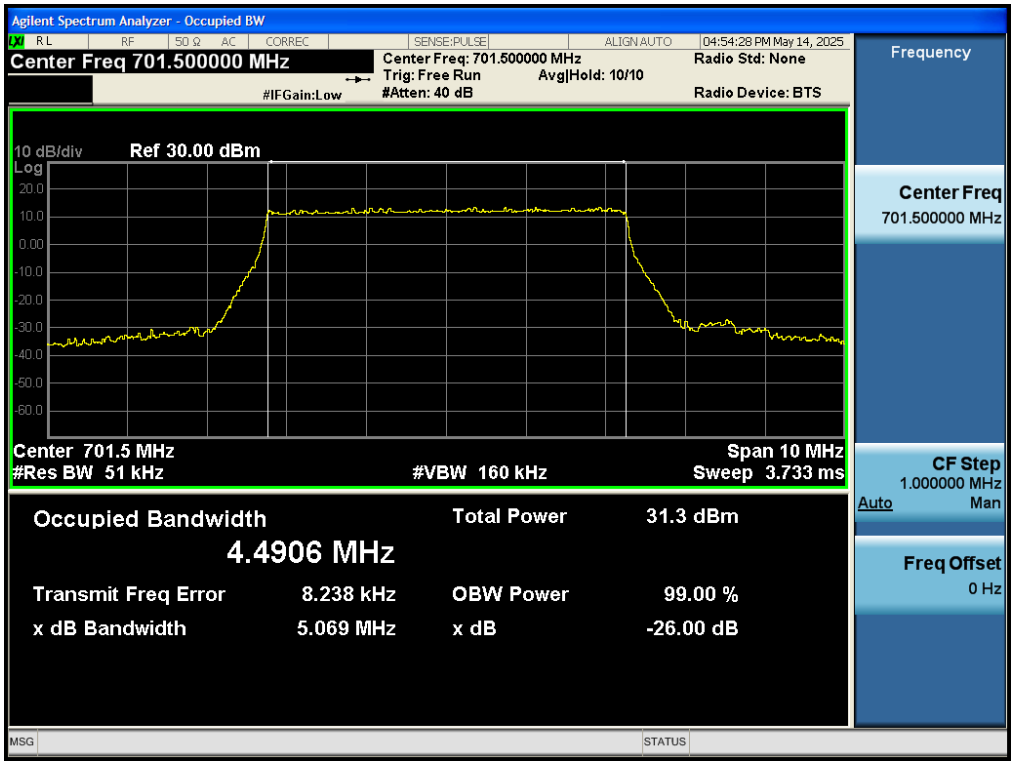
Test_Graph_band12_714.5MHz_3M_16QAM_15RB#LOW_OBW&EBW



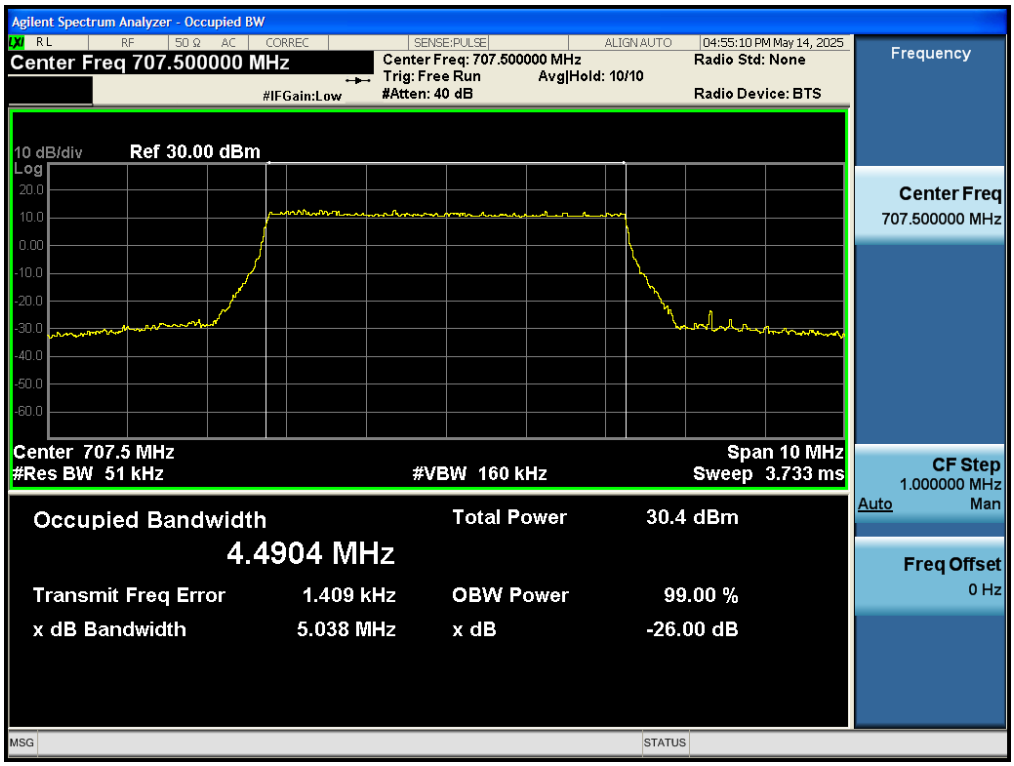
Test_Graph_band12_714.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



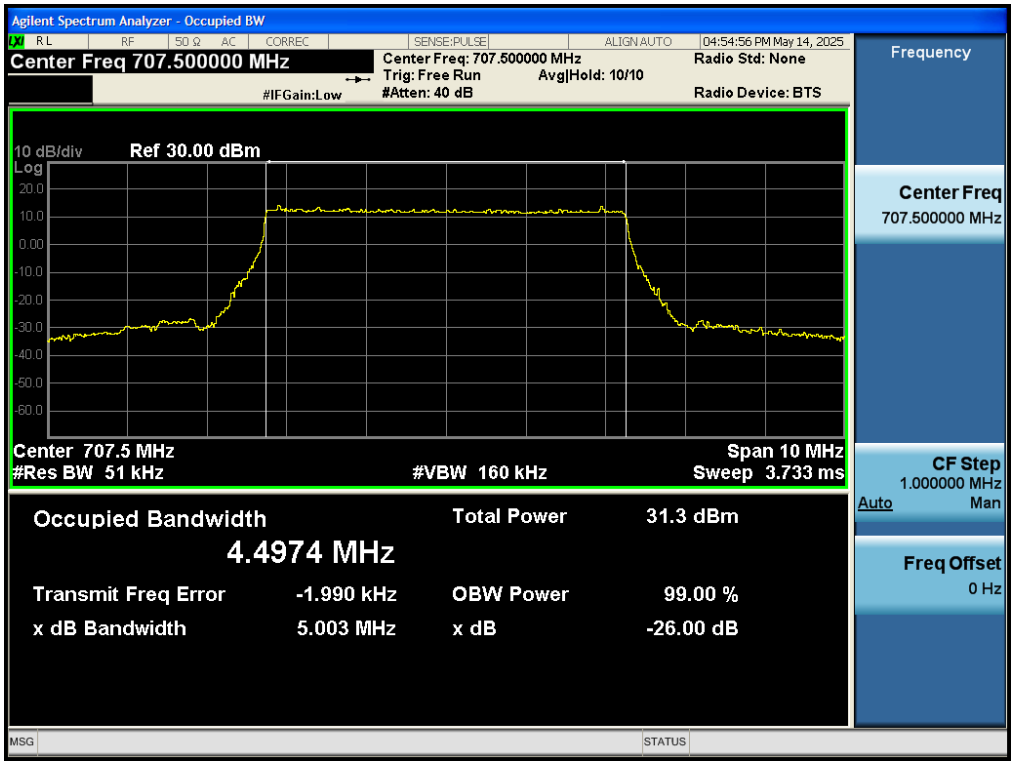
Test_Graph_band12_701.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



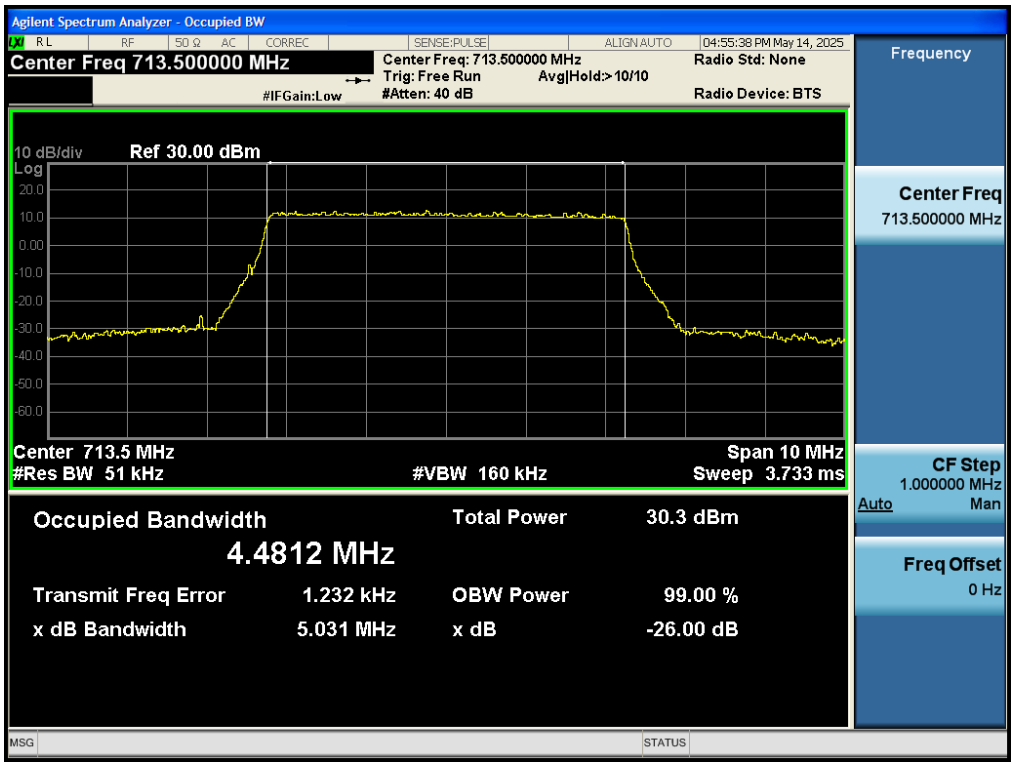
Test_Graph_band12_701.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



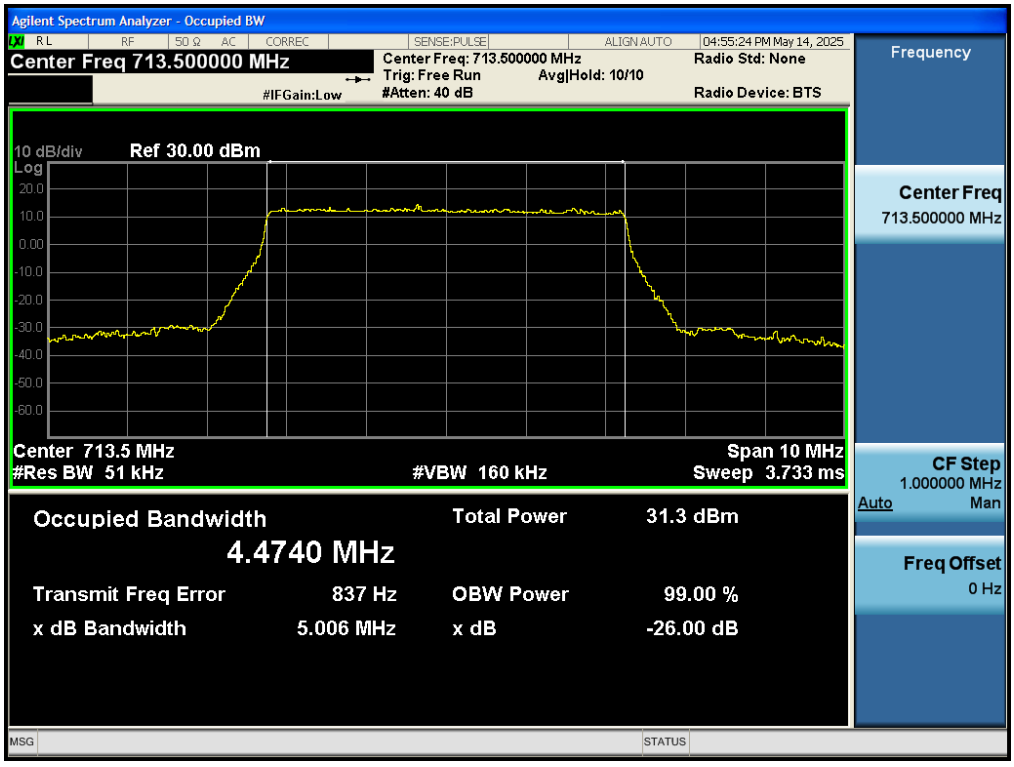
Test_Graph_band12_707.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



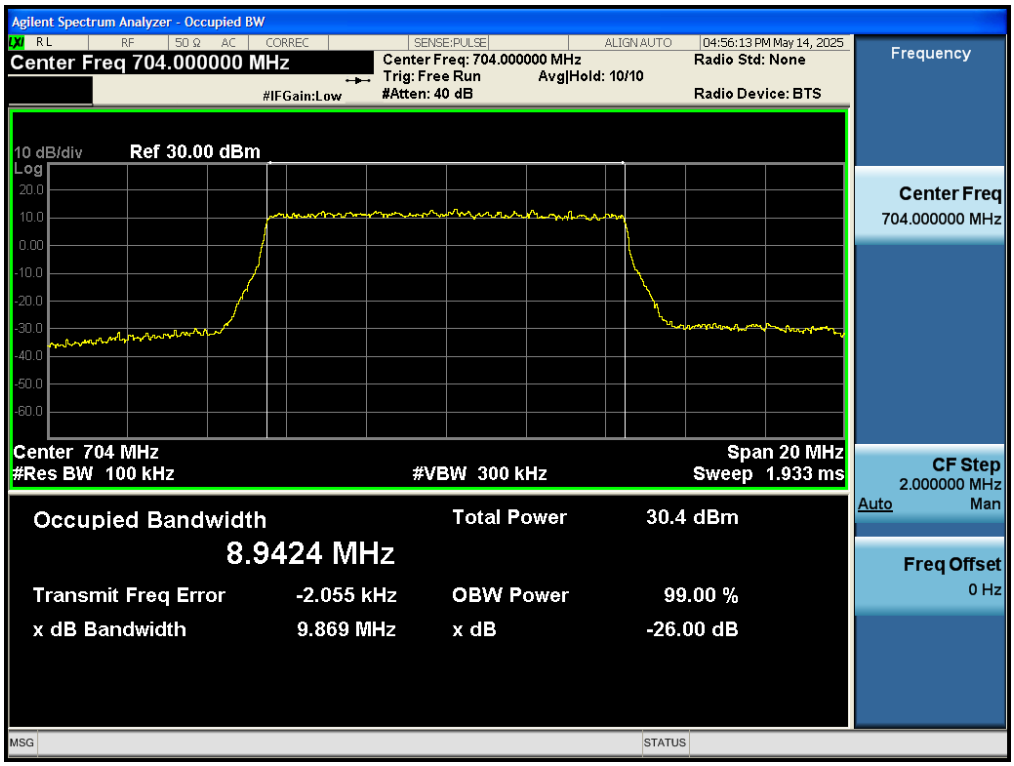
Test_Graph_band12_707.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



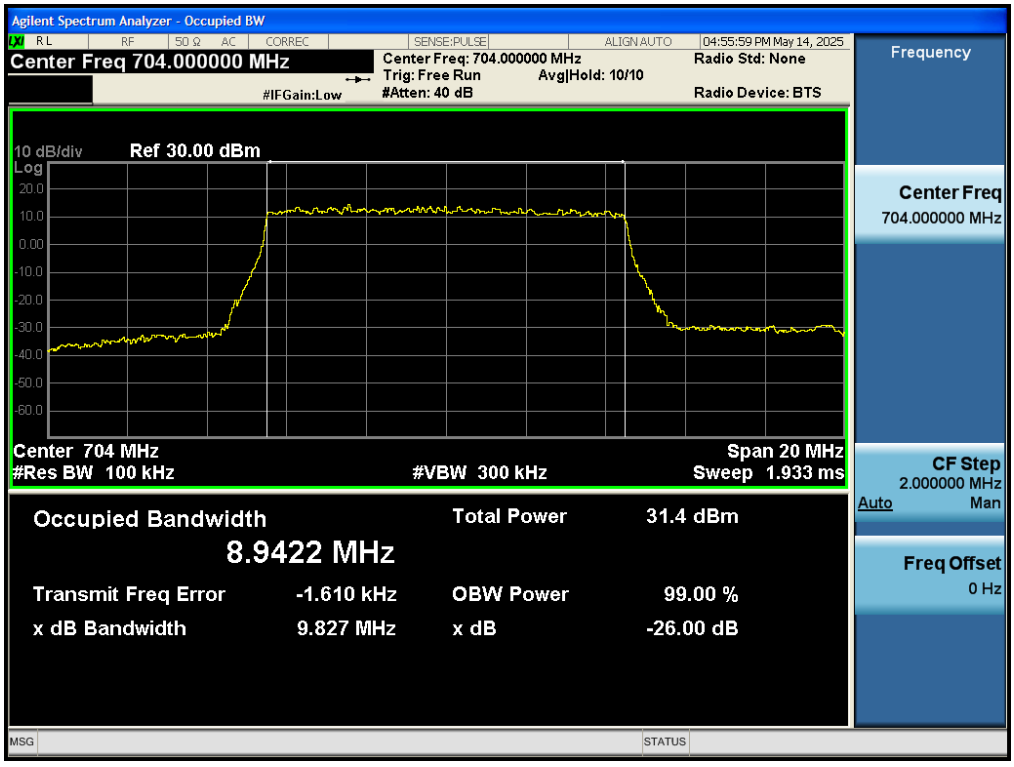
Test_Graph_band12_713.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



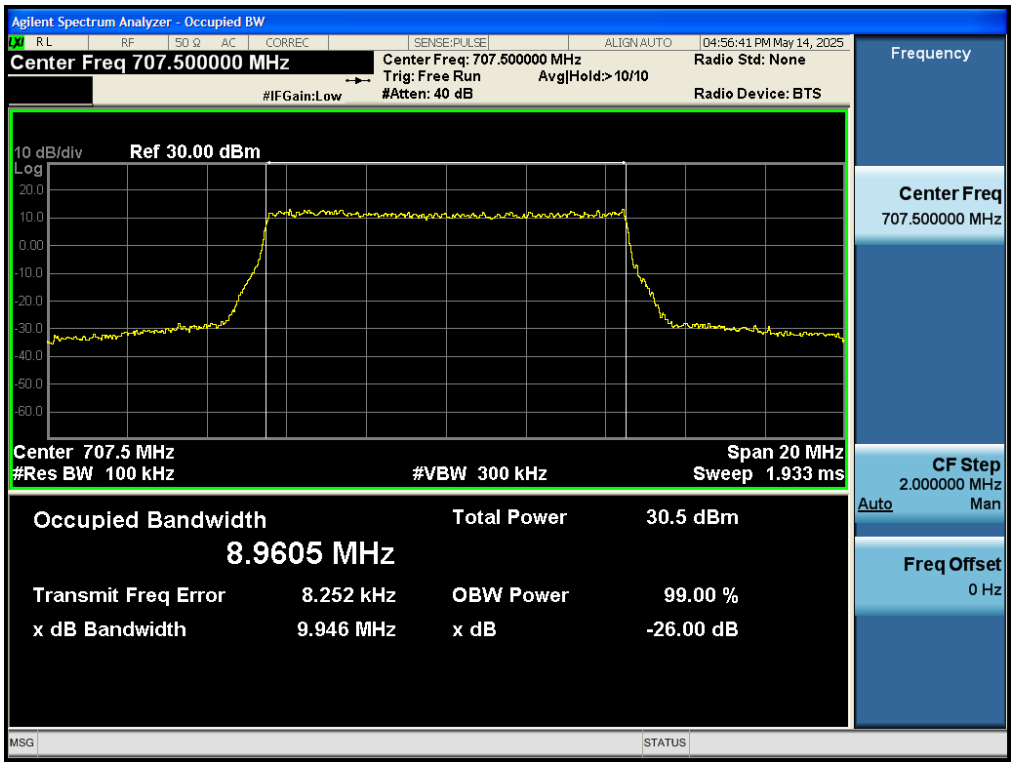
Test_Graph_band12_713.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



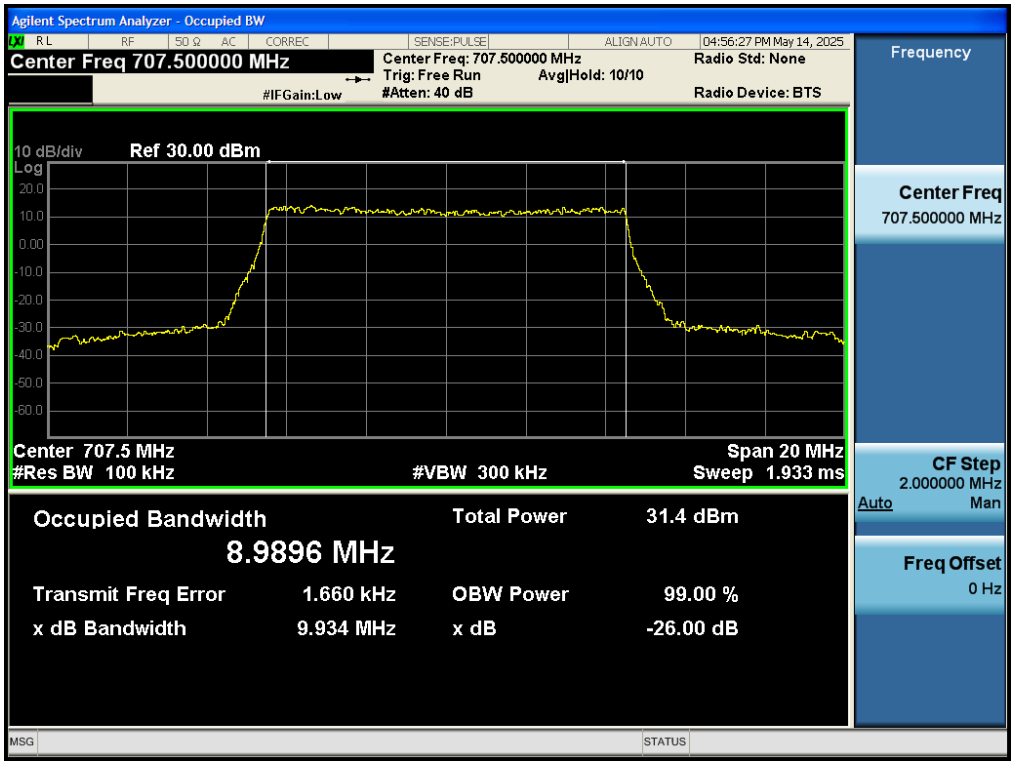
Test_Graph_band12_704MHz_10M_16QAM_50RB#LOW_OBW&EBW



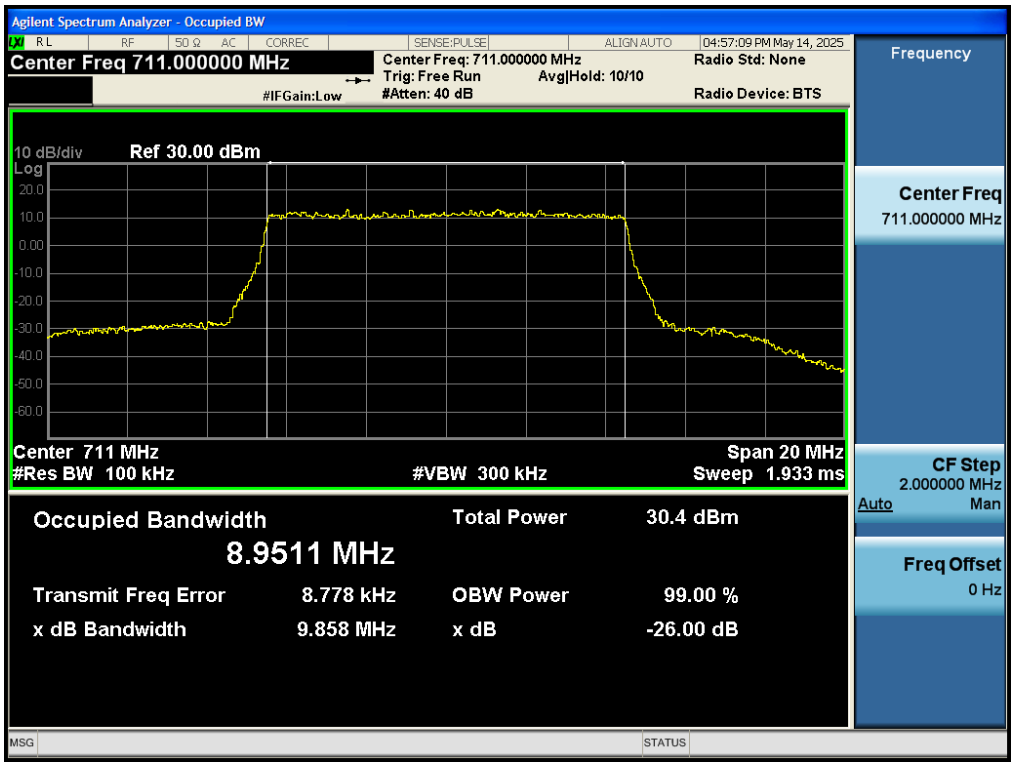
Test_Graph_band12_704MHz_10M_QPSK_50RB#LOW_OBW&EBW



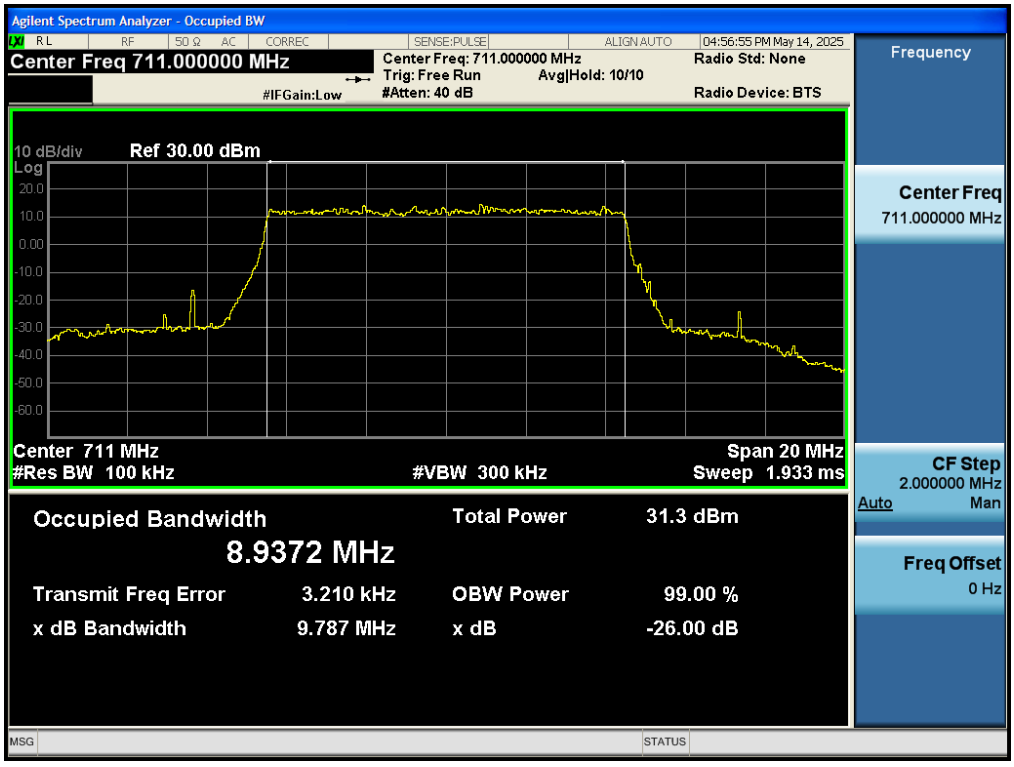
Test_Graph_band12_707.5MHz_10M_16QAM_50RB#LOW_OBW&EBW



Test_Graph_band12_707.5MHz_10M_QPSK_50RB#LOW_OBW&EBW



Test_Graph_band12_711MHz_10M_16QAM_50RB#LOW_OBW&EBW



Test_Graph_band12_711MHz_10M_QPSK_50RB#LOW_OBW&EBW

Appendix C: Band edge emissions

Test Result

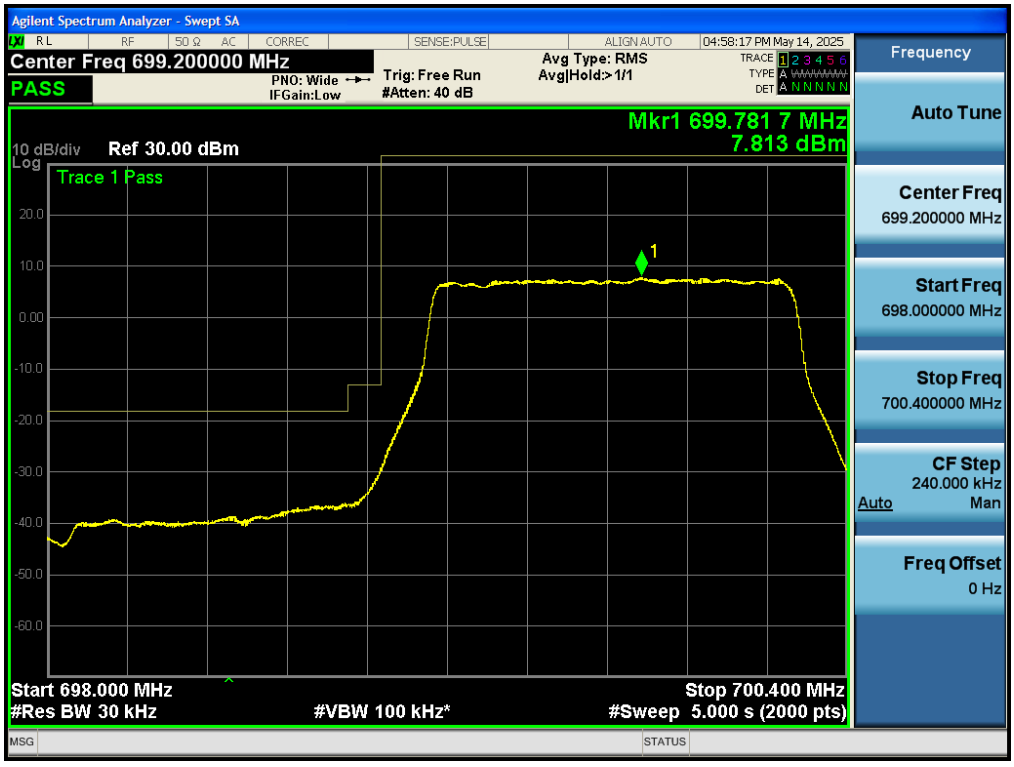
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
12	1.4	699.7	QPSK	1	LOW	Pass
12	1.4	699.7	QPSK	6	LOW	Pass
12	1.4	699.7	16QAM	1	LOW	Pass
12	1.4	699.7	16QAM	6	LOW	Pass
12	1.4	715.3	QPSK	1	HIGH	Pass
12	1.4	715.3	QPSK	6	LOW	Pass
12	1.4	715.3	16QAM	1	HIGH	Pass
12	1.4	715.3	16QAM	6	LOW	Pass
12	3	700.5	QPSK	1	LOW	Pass
12	3	700.5	QPSK	15	LOW	Pass
12	3	700.5	16QAM	1	LOW	Pass
12	3	700.5	16QAM	15	LOW	Pass
12	3	714.5	QPSK	1	HIGH	Pass
12	3	714.5	QPSK	15	LOW	Pass
12	3	714.5	16QAM	1	HIGH	Pass
12	3	714.5	16QAM	15	LOW	Pass
12	5	701.5	QPSK	1	LOW	Pass
12	5	701.5	QPSK	25	LOW	Pass
12	5	701.5	16QAM	1	LOW	Pass
12	5	701.5	16QAM	25	LOW	Pass
12	5	713.5	QPSK	1	HIGH	Pass
12	5	713.5	QPSK	25	LOW	Pass
12	5	713.5	16QAM	1	HIGH	Pass
12	5	713.5	16QAM	25	LOW	Pass
12	10	704	QPSK	1	LOW	Pass
12	10	704	QPSK	50	LOW	Pass
12	10	704	16QAM	1	LOW	Pass
12	10	704	16QAM	50	LOW	Pass
12	10	711	QPSK	1	HIGH	Pass
12	10	711	QPSK	50	LOW	Pass
12	10	711	16QAM	1	HIGH	Pass
12	10	711	16QAM	50	LOW	Pass

Test Graphs

Test_Graph_band12_699.7MHz_1.4M_16QAM_1RB#LOW_Band edge

Test_Graph_band12_699.7MHz_1.4M_16QAM_6RB#LOW_Band edge

Test_Graph_band12_699.7MHz_1.4M_QPSK_1RB#LOW_Band edge

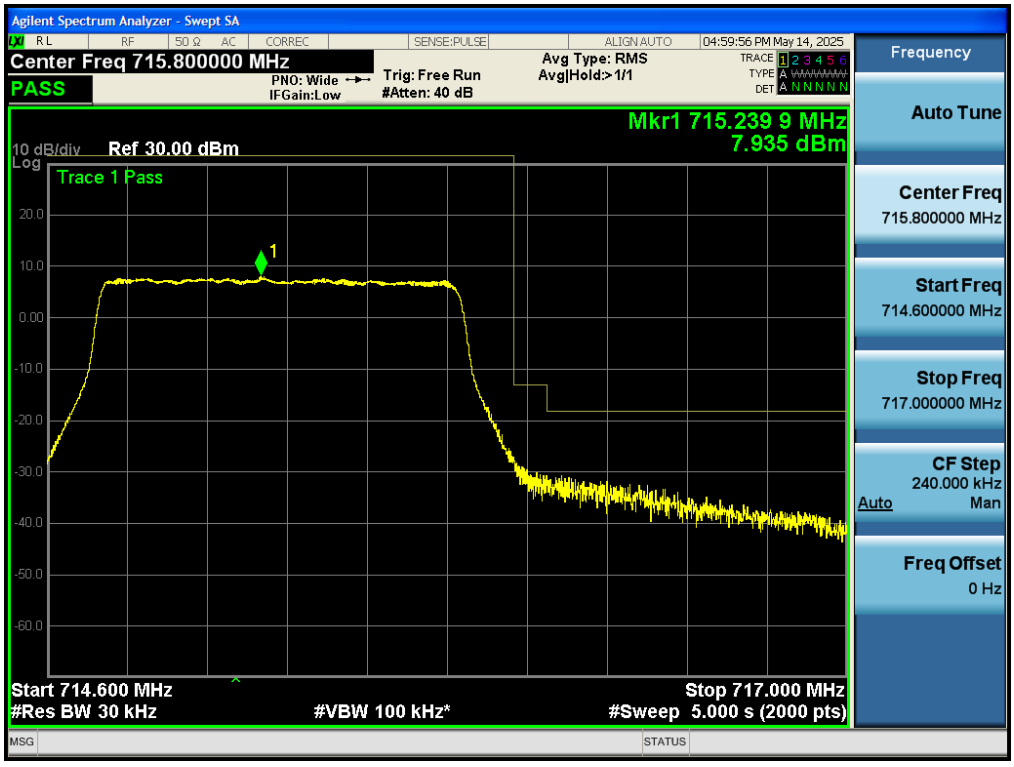


Test_Graph_band12_699.7MHz_1.4M_QPSK_6RB#LOW_Band edge

Test_Graph_band12_715.3MHz_1.4M_16QAM_1RB#HIGH_Band edge

Test_Graph_band12_715.3MHz_1.4M_16QAM_6RB#LOW_Band edge

Test_Graph_band12_715.3MHz_1.4M_QPSK_1RB#HIGH_Band edge

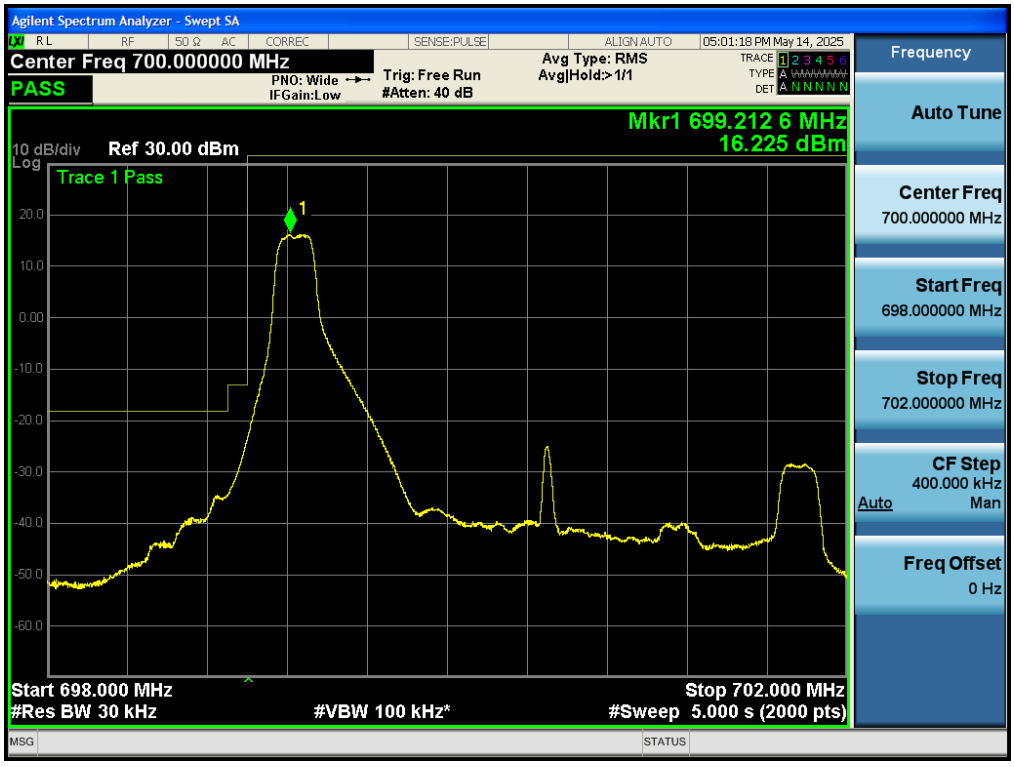


Test_Graph_band12_715.3MHz_1.4M_QPSK_6RB#LOW_Band edge

Test_Graph_band12_700.5MHz_3M_16QAM_15RB#LOW_Band edge

Test_Graph_band12_700.5MHz_3M_16QAM_1RB#LOW_Band edge

Test_Graph_band12_700.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band12_700.5MHz_3M_QPSK_1RB#LOW_Band edge

Test_Graph_band12_714.5MHz_3M_16QAM_15RB#LOW_Band edge

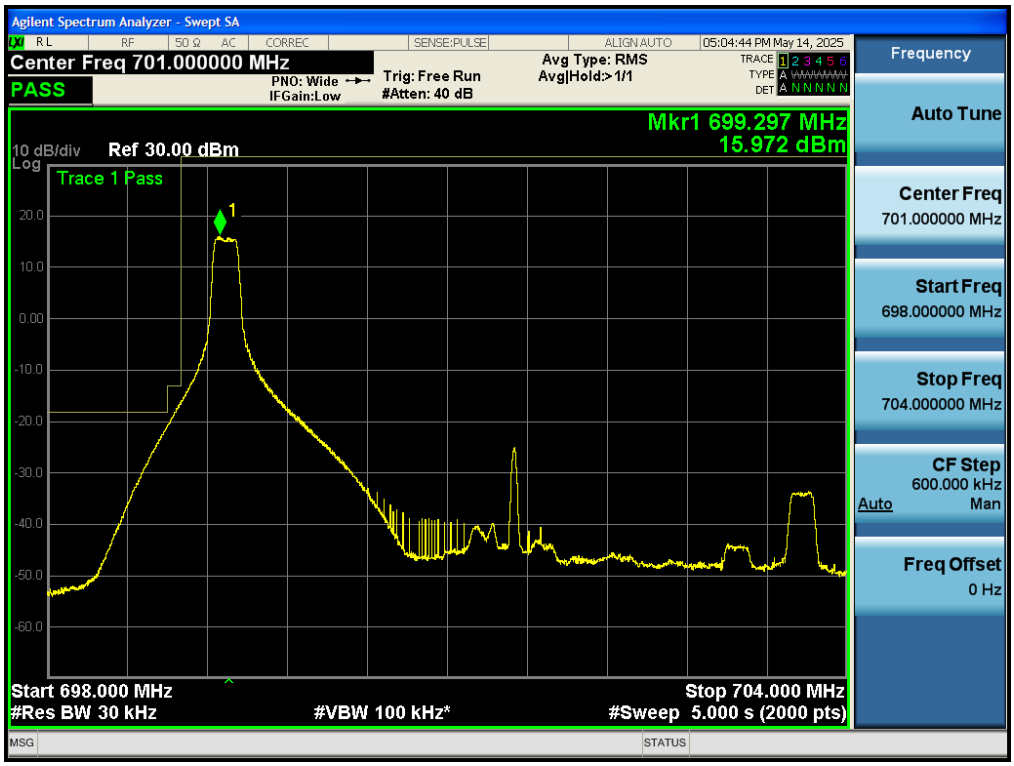
Test_Graph_band12_714.5MHz_3M_16QAM_1RB#HIGH_Band edge

Test_Graph_band12_714.5MHz_3M_QPSK_15RB#LOW_Band edge

Test_Graph_band12_714.5MHz_3M_QPSK_1RB#HIGH_Band edge

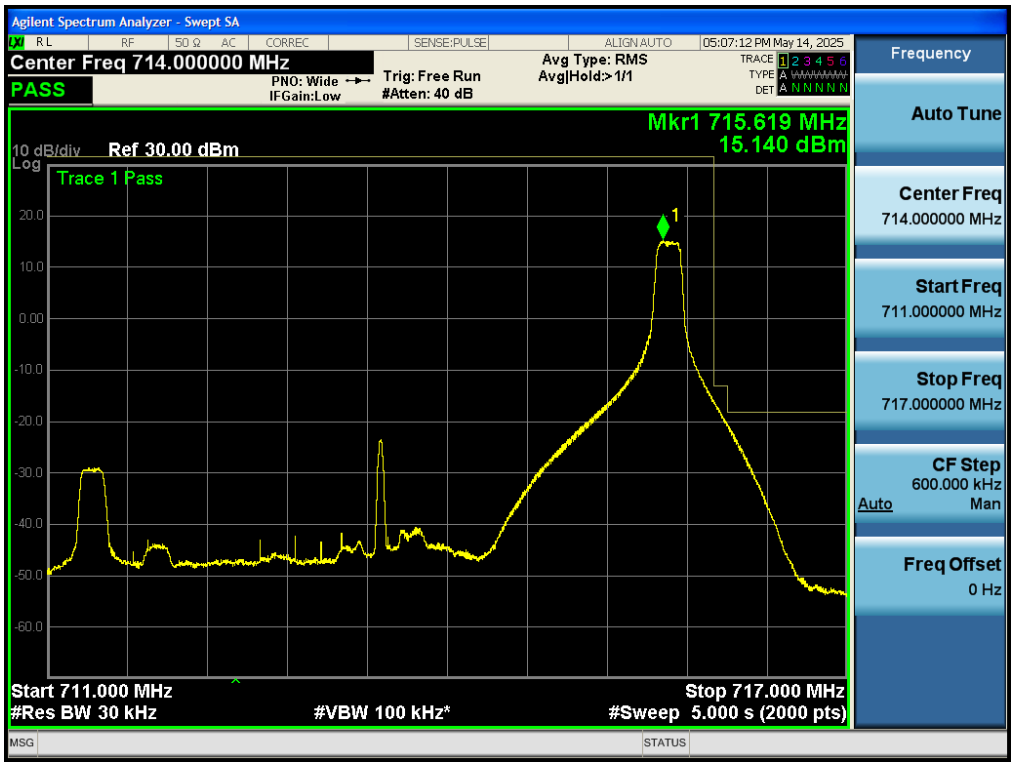
Test_Graph_band12_701.5MHz_5M_16QAM_1RB#LOW_Band edge

Test_Graph_band12_701.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band12_701.5MHz_5M_QPSK_1RB#LOW_Band edge

Test_Graph_band12_701.5MHz_5M_QPSK_25RB#LOW_Band edge

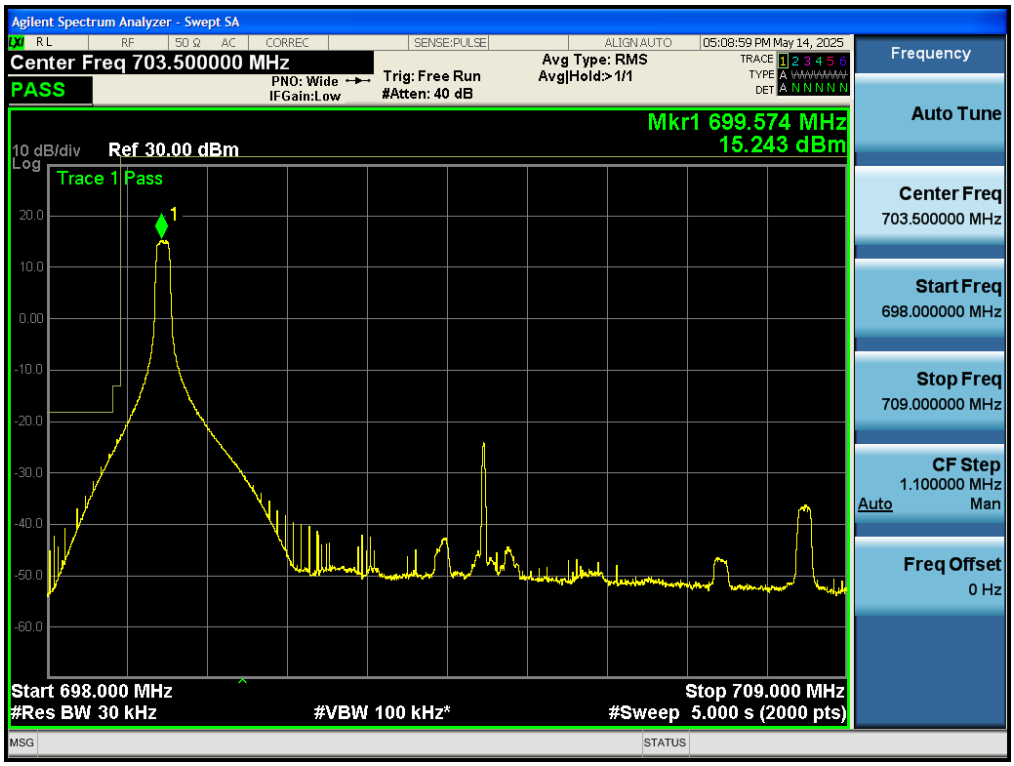


Test_Graph_band12_713.5MHz_5M_16QAM_1RB#HIGH_Band edge

Test_Graph_band12_713.5MHz_5M_16QAM_25RB#LOW_Band edge

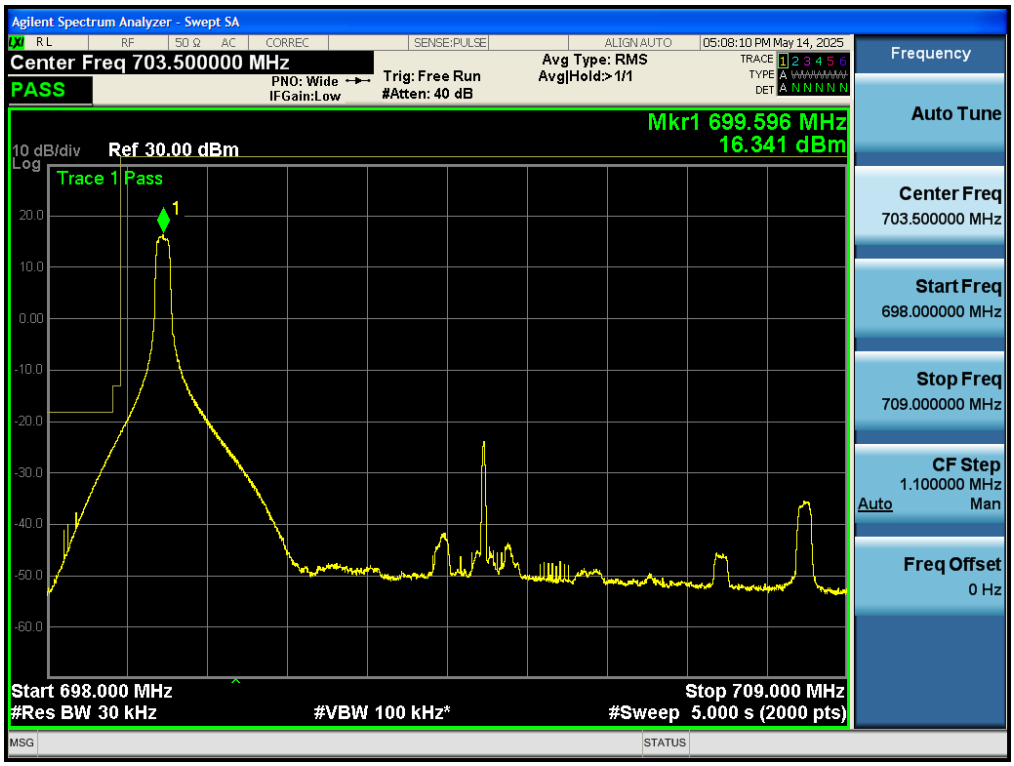
Test_Graph_band12_713.5MHz_5M_QPSK_1RB#HIGH_Band edge

Test_Graph_band12_713.5MHz_5M_QPSK_25RB#LOW_Band edge



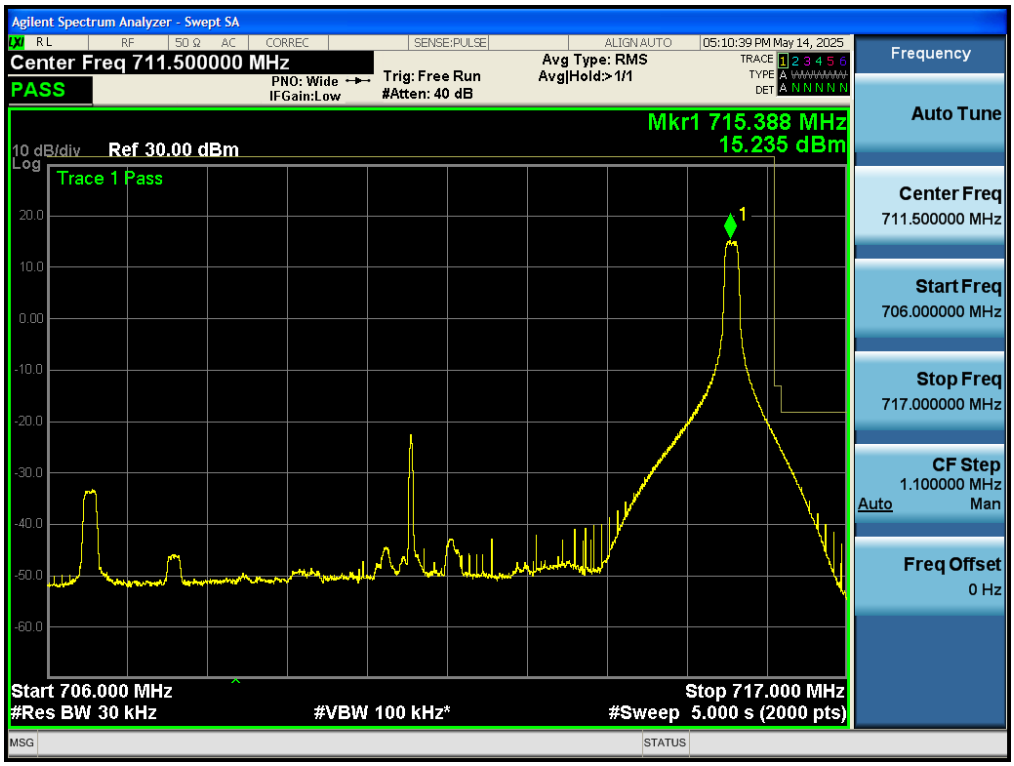
Test_Graph_band12_704MHz_10M_16QAM_1RB#LOW_Band edge

Test_Graph_band12_704MHz_10M_16QAM_50RB#LOW_Band edge



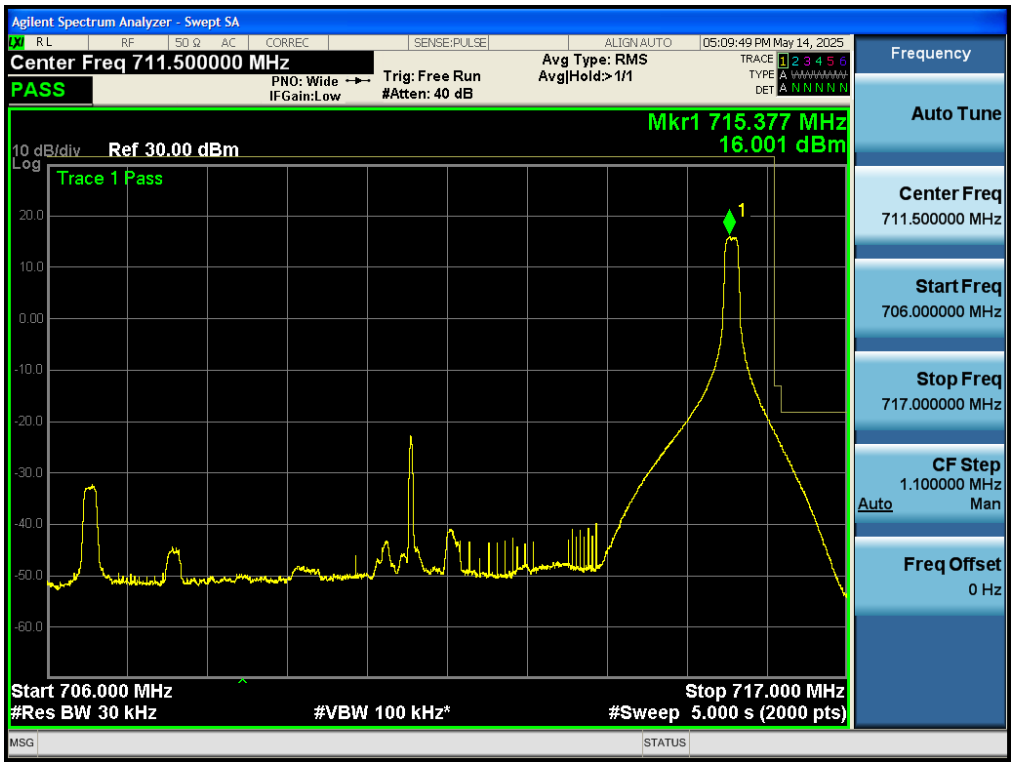
Test_Graph_band12_704MHz_10M_QPSK_1RB#LOW_Band edge

Test_Graph_band12_704MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band12_711MHz_10M_16QAM_1RB#HIGH_Band edge

Test_Graph_band12_711MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band12_711MHz_10M_QPSK_1RB#HIGH_Band edge

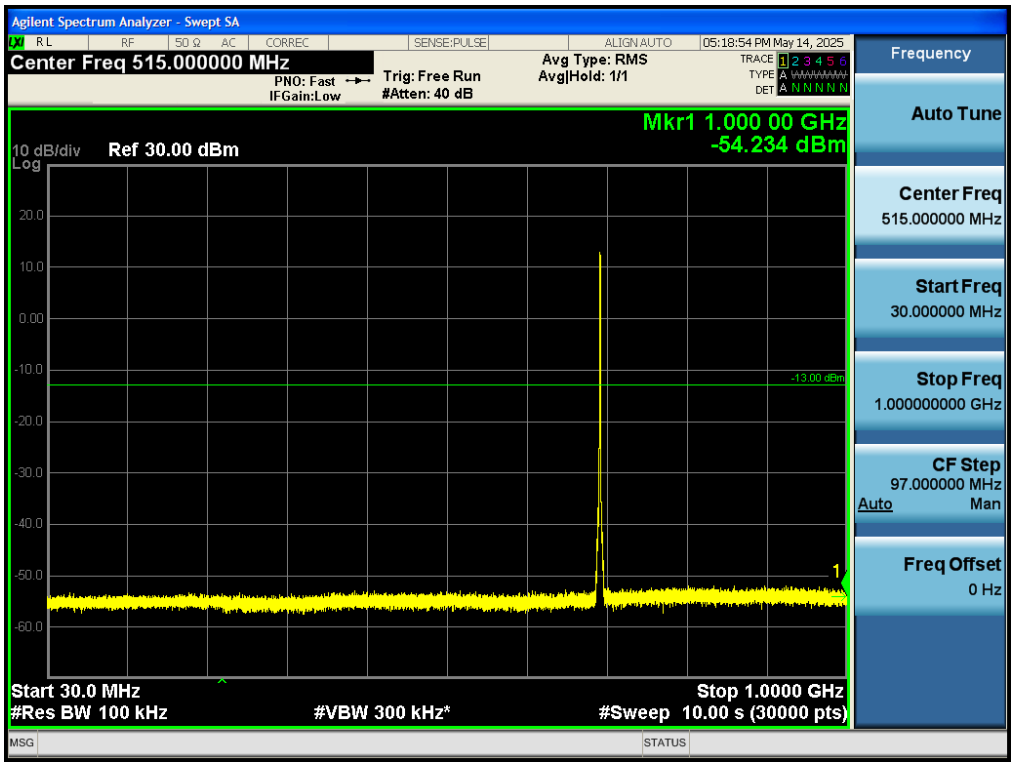
Test_Graph_band12_711MHz_10M_QPSK_50RB#LOW_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

Test Result

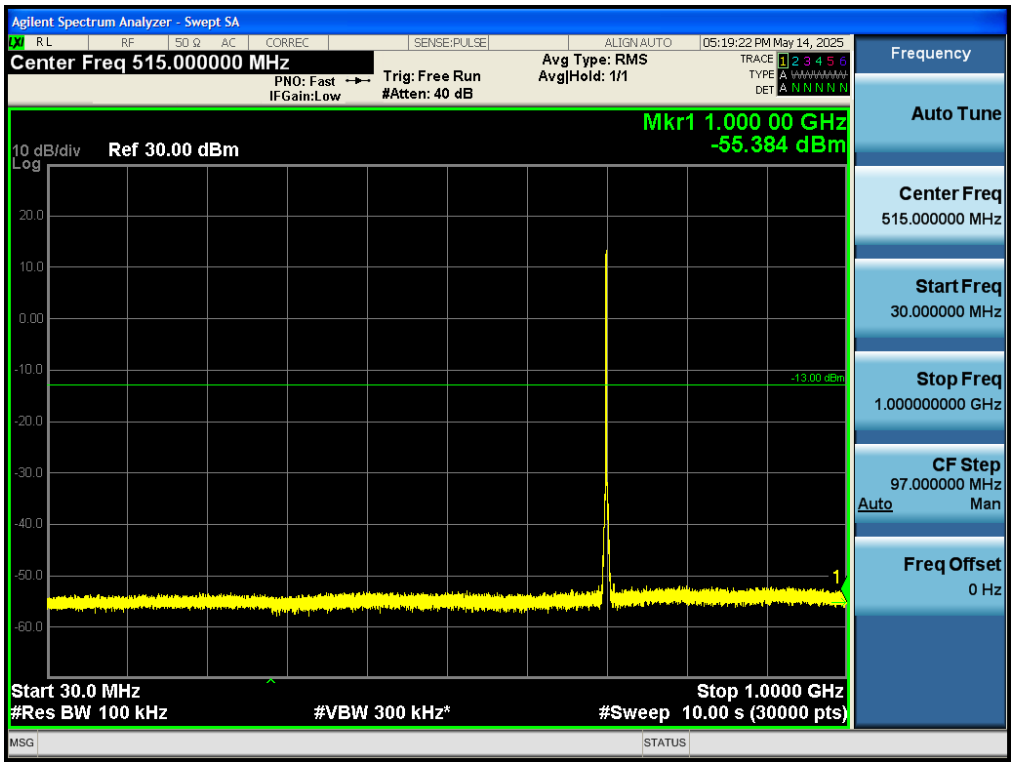
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
12	1.4	699.7	QPSK	6	LOW	Pass
12	1.4	707.5	QPSK	6	LOW	Pass
12	1.4	715.3	QPSK	6	LOW	Pass
12	3	700.5	QPSK	15	LOW	Pass
12	3	707.5	QPSK	15	LOW	Pass
12	3	714.5	QPSK	15	LOW	Pass
12	5	701.5	QPSK	25	LOW	Pass
12	5	707.5	QPSK	25	LOW	Pass
12	5	713.5	QPSK	25	LOW	Pass
12	10	704	QPSK	50	LOW	Pass
12	10	707.5	QPSK	50	LOW	Pass
12	10	711	QPSK	50	LOW	Pass

Test Graphs



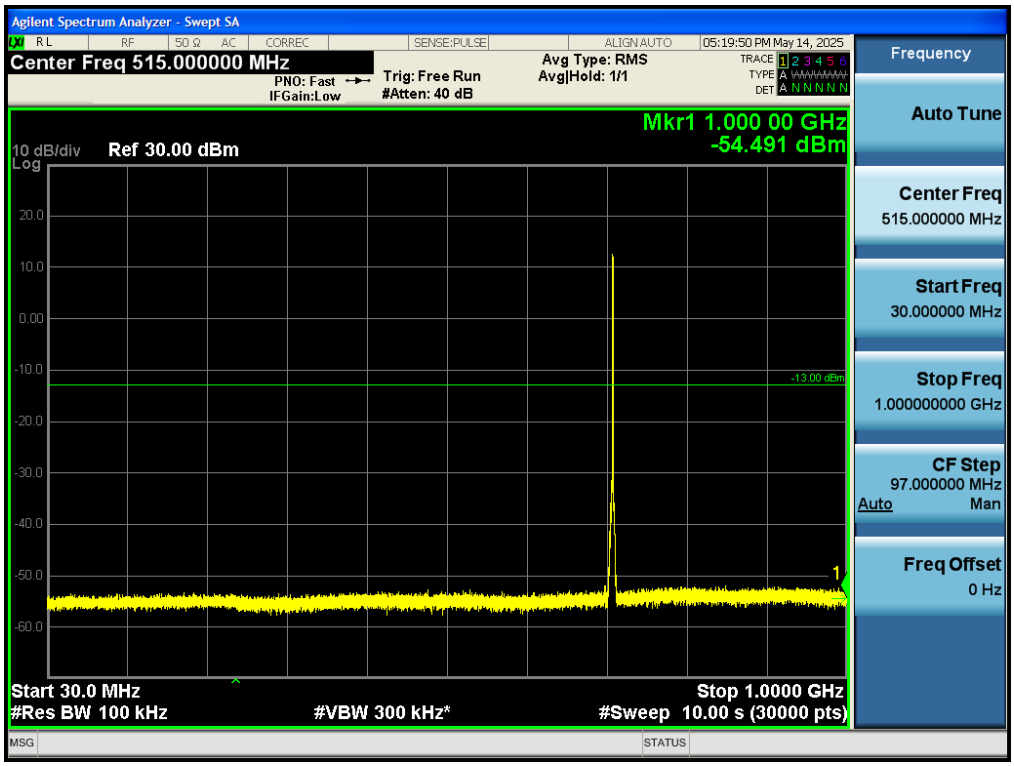
Test_Graph_band12_699.7MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX

Test_Graph_band12_699.7MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



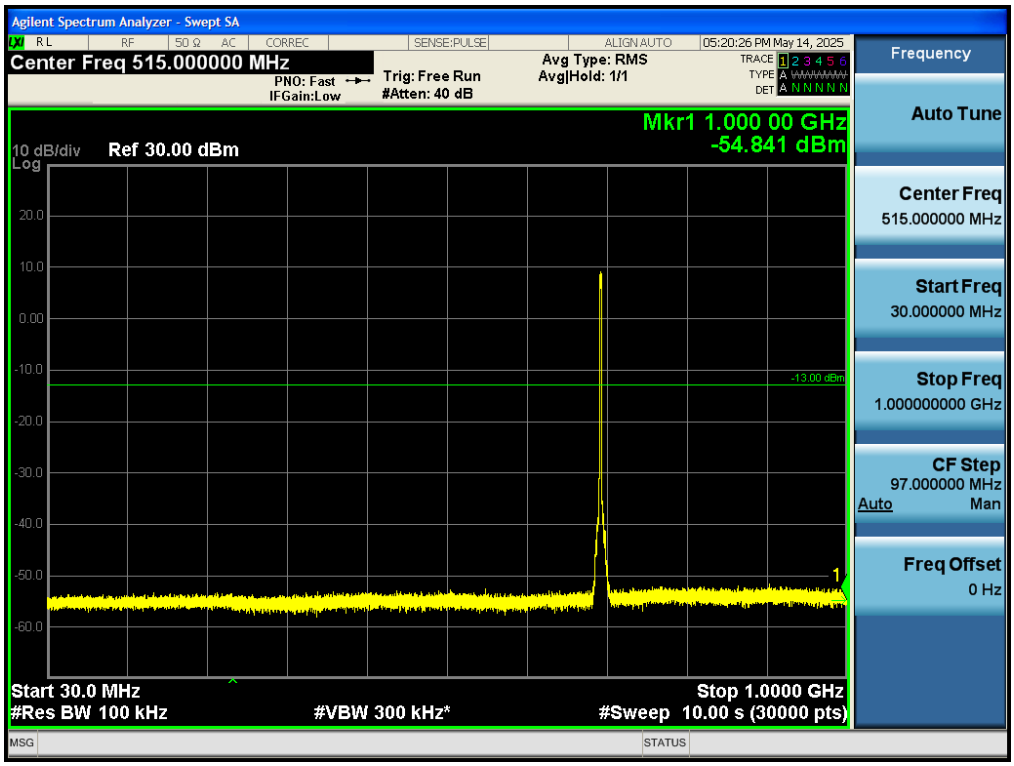
Test_Graph_band12_707.5MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX

Test_Graph_band12_707.5MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



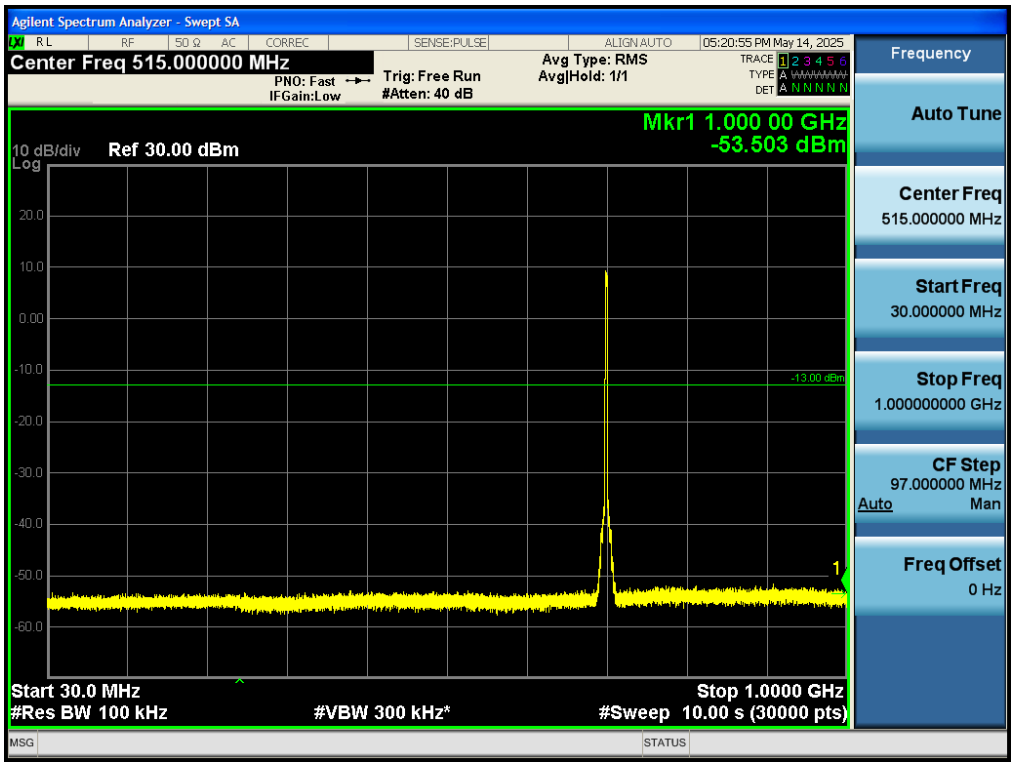
Test_Graph_band12_715.3MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX

Test_Graph_band12_715.3MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



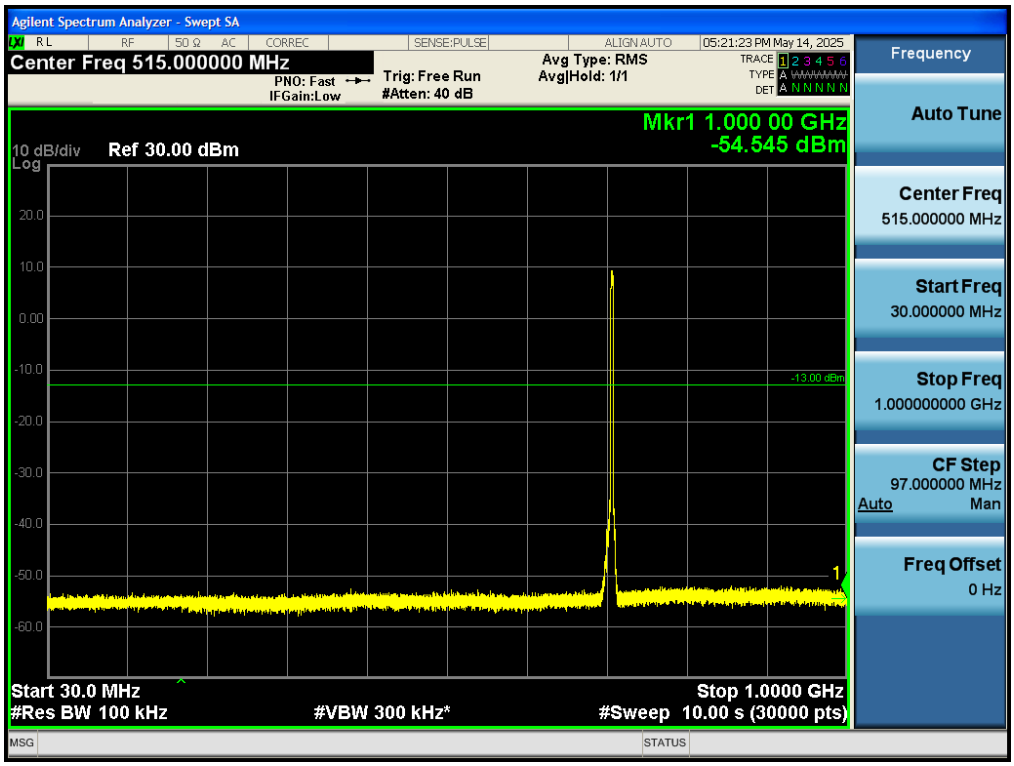
Test_Graph_band12_700.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX

Test_Graph_band12_700.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



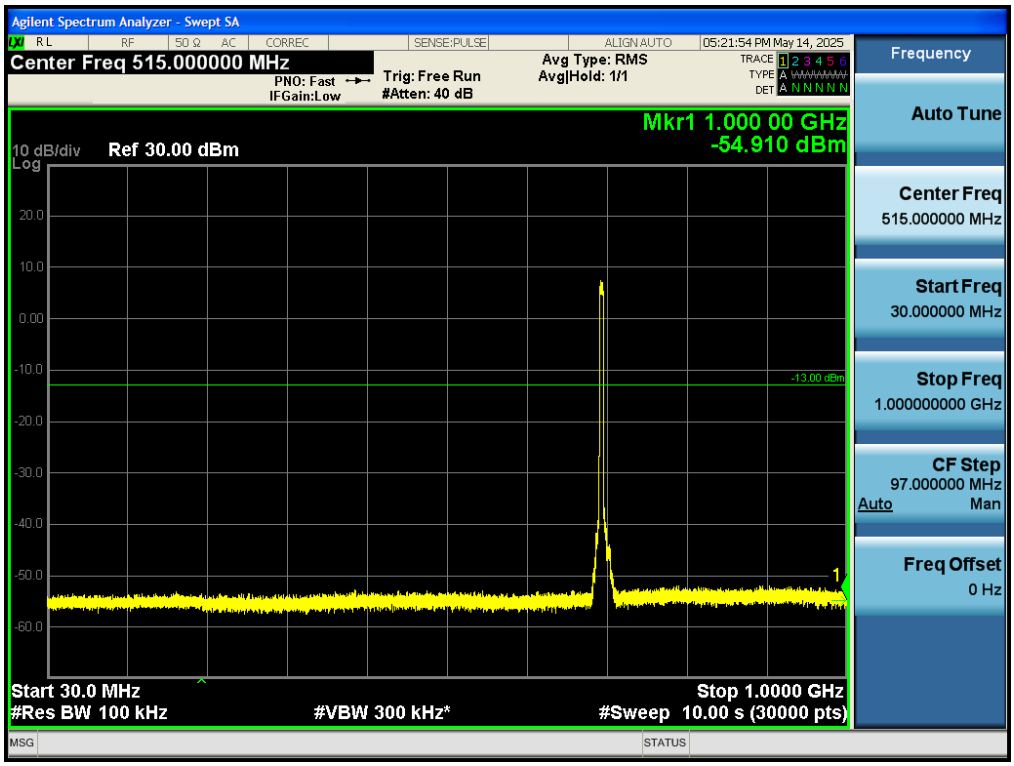
Test_Graph_band12_707.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX

Test_Graph_band12_707.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



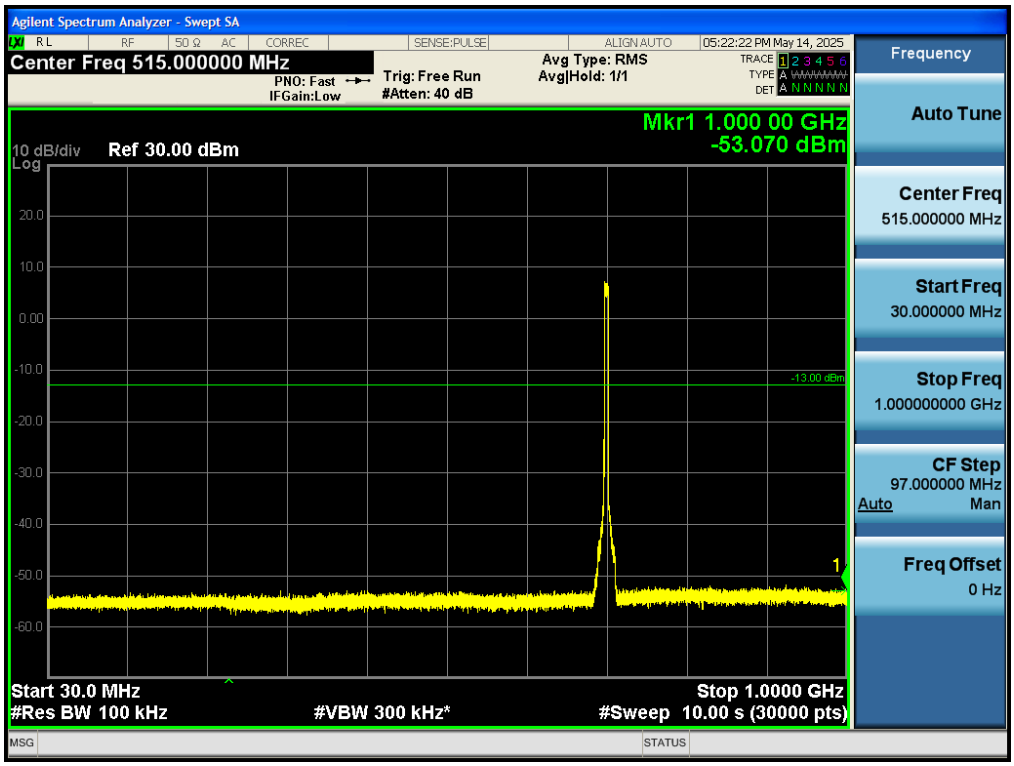
Test_Graph_band12_714.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX

Test_Graph_band12_714.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



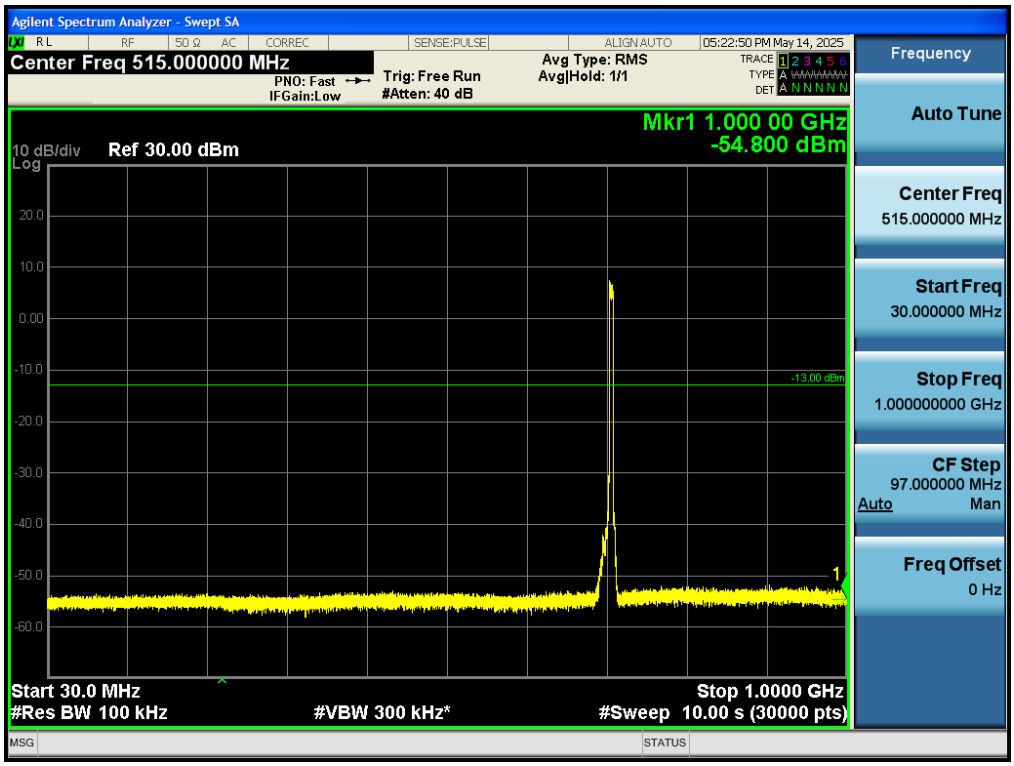
Test_Graph_band12_701.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX

Test_Graph_band12_701.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



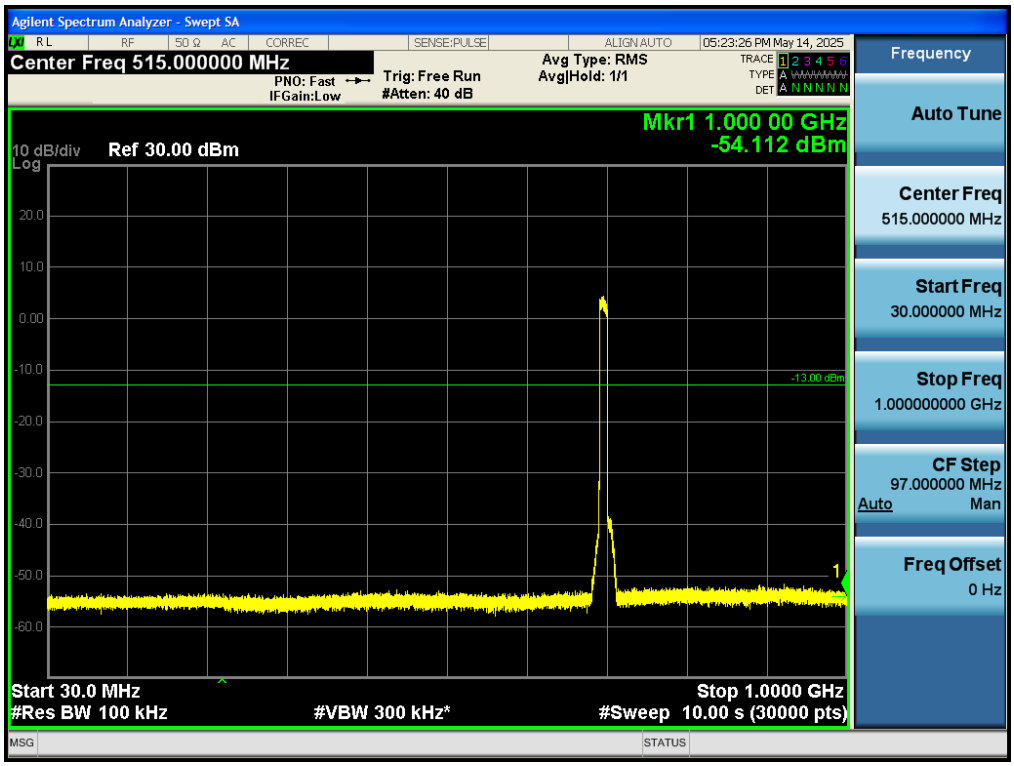
Test_Graph_band12_707.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX

Test_Graph_band12_707.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



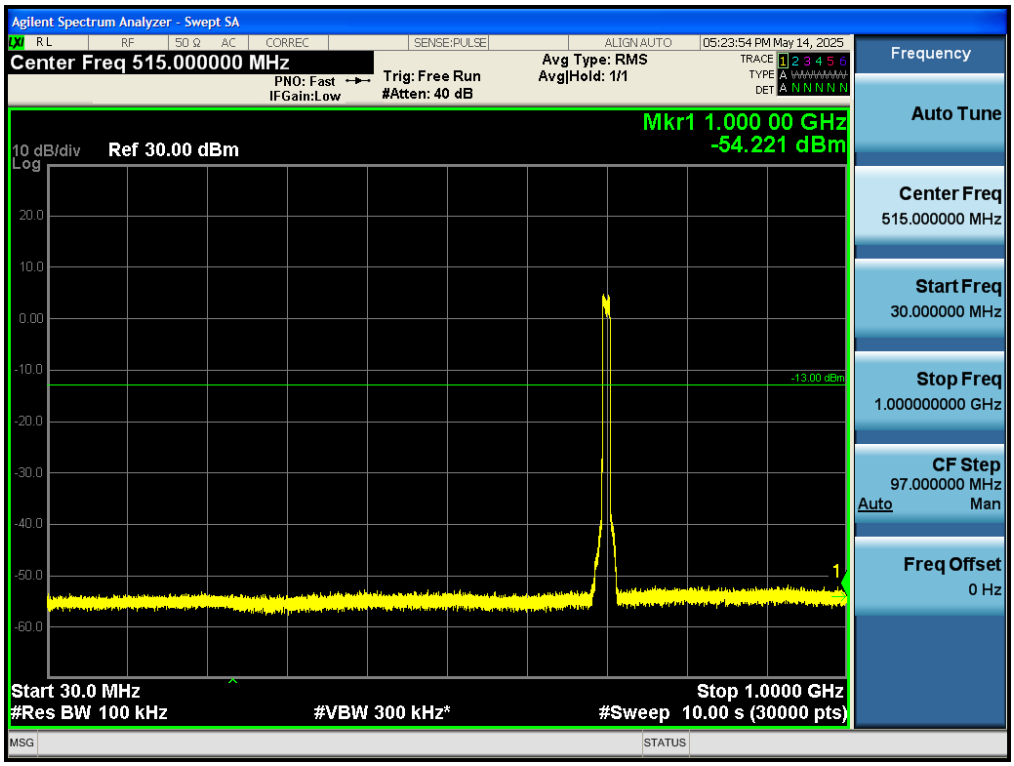
Test_Graph_band12_713.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX

Test_Graph_band12_713.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



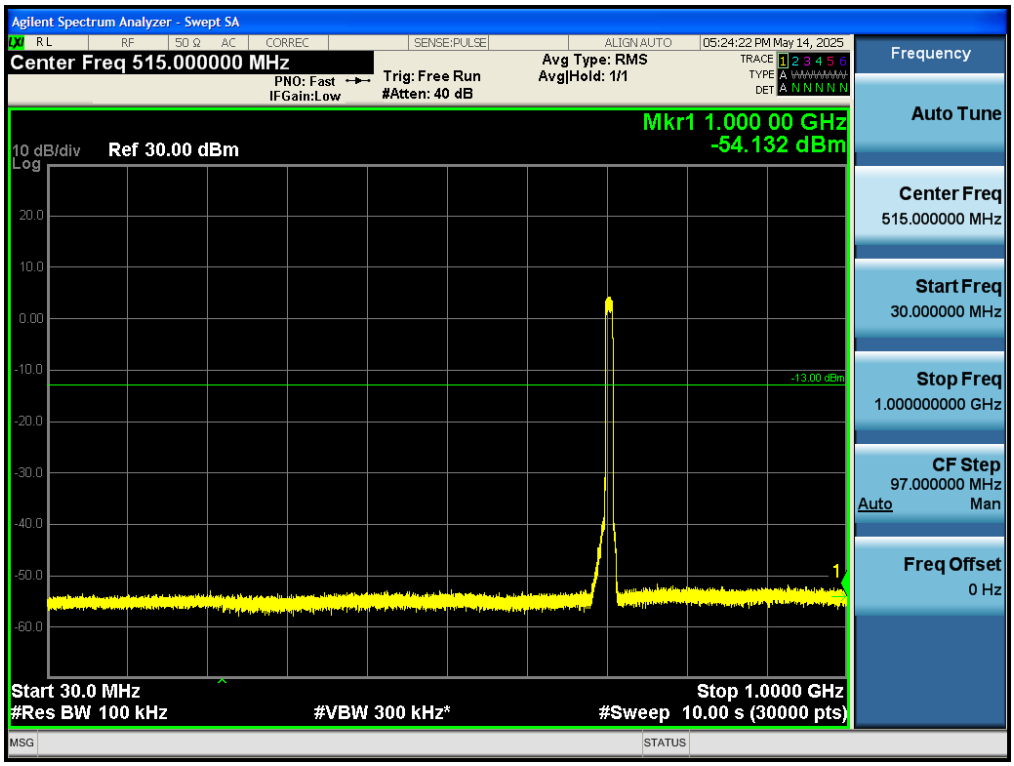
Test_Graph_band12_704MHz_10M_QPSK_50RB#LOW_30M_1G_TX

Test_Graph_band12_704MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band12_707.5MHz_10M_QPSK_50RB#LOW_30M_1G_TX

Test_Graph_band12_707.5MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band12_711MHz_10M_QPSK_50RB#LOW_30M_1G_TX

Test_Graph_band12_711MHz_10M_QPSK_50RB#LOW_1G_10G_TX

Appendix E: Frequency stability

Test Result

Test Conditions (LTE Band 12(QPSK) /BW 10MHz)		Frequency Range		Frequency Error	Verdict
Temperature (°C)	Voltage (Volt)	>699 Freq Reading @ Low End (MHz)	<716 Freq Reading @ High End (MHz)	Middle Channel ≤2.5ppm	
50	Normal Voltage	699.5203	715.4665	0.0066	PASS
40	Normal Voltage	699.5204	715.4665	0.0061	
30	Normal Voltage	699.5205	715.4665	0.0067	
20(Ref.)	Normal Voltage	699.5204	715.4667	0.0068	
10	Normal Voltage	699.5204	715.4665	0.0064	
0	Normal Voltage	699.5205	715.4665	0.0062	
-10	Normal Voltage	699.5205	715.4667	0.0070	
-20	Normal Voltage	699.5204	715.4667	0.0065	
-30	Normal Voltage	699.5204	715.4666	0.0068	
20	+15%	699.5205	715.4666	0.0063	
20	-15%	699.5205	715.4667	0.0062	
20	Battery End Point	699.5204	715.4666	0.0069	