

Appendix A: Effective (Isotropic) Radiated Power

Test Result

Test Band: LTE CatM1 B13 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.49	21.58	21.54	-0.26	1.89	21.23	21.32	21.28	34.77	PASS
	1	2	21.44	21.35	21.45	-0.26	1.89	21.18	21.09	21.19	34.77	PASS
	1	5	21.37	21.25	21.37	-0.26	1.89	21.11	20.99	21.11	34.77	PASS
	3	0	20.49	20.63	20.88	-0.26	1.89	20.23	20.37	20.62	34.77	PASS
	3	2	20.55	20.54	20.84	-0.26	1.89	20.29	20.28	20.58	34.77	PASS
	3	3	20.52	20.66	20.93	-0.26	1.89	20.26	20.4	20.67	34.77	PASS
	6	0	20.64	20.62	20.55	-0.26	1.89	20.38	20.36	20.29	34.77	PASS
16QAM	1	0	20.92	21.38	21.45	-0.26	1.89	20.66	21.12	21.19	34.77	PASS
	1	2	20.66	21.13	21.13	-0.26	1.89	20.4	20.87	20.87	34.77	PASS
	1	5	20.62	20.57	20.91	-0.26	1.89	20.36	20.31	20.65	34.77	PASS
	3	0	20.37	20.63	20.69	-0.26	1.89	20.11	20.37	20.43	34.77	PASS
	3	2	20.39	20.57	20.68	-0.26	1.89	20.13	20.31	20.42	34.77	PASS
	3	3	20.45	20.51	20.74	-0.26	1.89	20.19	20.25	20.48	34.77	PASS
	6	0	20.36	20.44	20.71	-0.26	1.89	20.1	20.18	20.45	34.77	PASS

Test Band: LTE CatM1 B13 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	NA	21.62	NA	-0.26	1.89	NA	21.36	NA	34.77	PASS
	1	2	NA	21.35	NA	-0.26	1.89	NA	21.09	NA	34.77	PASS
	1	5	NA	21.25	NA	-0.26	1.89	NA	20.99	NA	34.77	PASS
	3	0	NA	20.63	NA	-0.26	1.89	NA	20.37	NA	34.77	PASS
	3	2	NA	20.54	NA	-0.26	1.89	NA	20.28	NA	34.77	PASS
	3	3	NA	20.62	NA	-0.26	1.89	NA	20.36	NA	34.77	PASS
	6	0	NA	20.62	NA	-0.26	1.89	NA	20.36	NA	34.77	PASS
16QAM	1	0	NA	21.38	NA	-0.26	1.89	NA	21.12	NA	34.77	PASS
	1	2	NA	21.13	NA	-0.26	1.89	NA	20.87	NA	34.77	PASS
	1	5	NA	20.57	NA	-0.26	1.89	NA	20.31	NA	34.77	PASS
	3	0	NA	20.63	NA	-0.26	1.89	NA	20.37	NA	34.77	PASS
	3	2	NA	20.57	NA	-0.26	1.89	NA	20.31	NA	34.77	PASS
	3	3	NA	20.54	NA	-0.26	1.89	NA	20.28	NA	34.77	PASS
	6	0	NA	20.44	NA	-0.26	1.89	NA	20.18	NA	34.77	PASS

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	8.46	<=13	PASS
Band13	5MHz	23205	QPSK	6	0	Low	11.68	<=13	PASS
Band13	5MHz	23230	QPSK	1	0	Low	7.81	<=13	PASS
Band13	5MHz	23230	QPSK	6	0	Low	9.15	<=13	PASS
Band13	5MHz	23255	QPSK	1	0	High	9.03	<=13	PASS
Band13	5MHz	23255	QPSK	6	0	High	9.17	<=13	PASS
Band13	5MHz	23205	16QAM	1	0	Low	12.00	<=13	PASS
Band13	5MHz	23205	16QAM	6	0	Low	8.77	<=13	PASS
Band13	5MHz	23230	16QAM	1	0	Low	8.31	<=13	PASS
Band13	5MHz	23230	16QAM	6	0	Low	9.37	<=13	PASS
Band13	5MHz	23255	16QAM	1	0	High	8.56	<=13	PASS
Band13	5MHz	23255	16QAM	6	0	High	10.89	<=13	PASS
Band13	10MHz	23230	QPSK	1	0	Low	9.07	<=13	PASS
Band13	10MHz	23230	QPSK	6	0	Low	9.03	<=13	PASS
Band13	10MHz	23230	16QAM	1	0	Low	9.51	<=13	PASS
Band13	10MHz	23230	16QAM	6	0	Low	11.62	<=13	PASS

Test Graphs



Band13-5MHz-QPSK-23205-1-0-Low-8.46-<=13-PASS



Band13-5MHz-QPSK-23205-6-0-Low-11.68-<=13-PASS



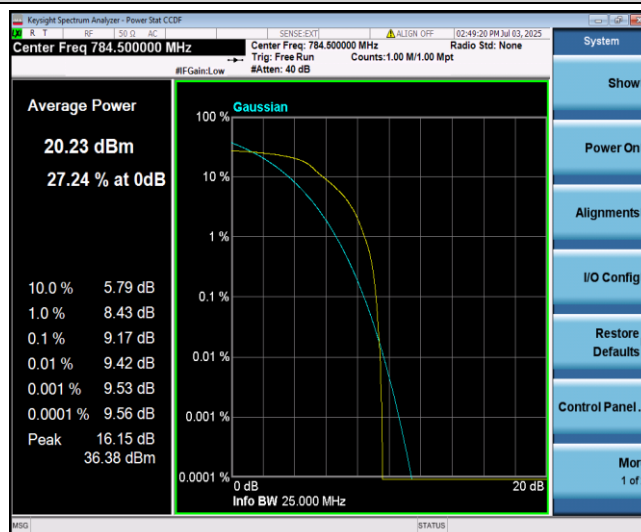
Band13-5MHz-QPSK-23230-1-0-Low-7.81-<=13-PASS



Band13-5MHz-QPSK-23230-6-0-Low-9.15-<=13-PASS



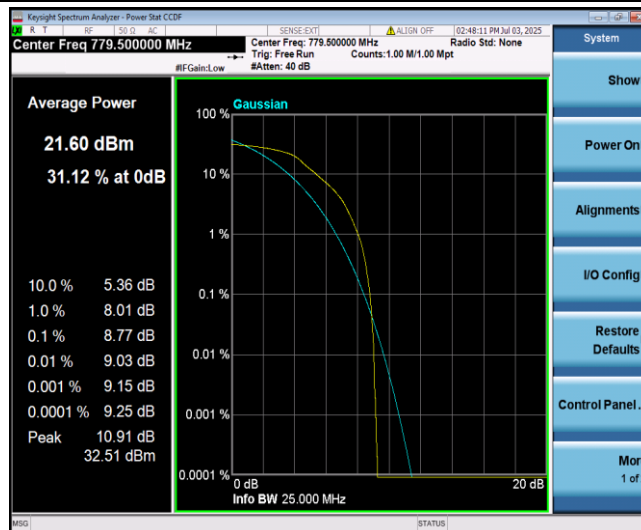
Band13-5MHz-QPSK-23255-1-0-High-9.03-<=13-PASS



Band13-5MHz-QPSK-23255-6-0-High-9.17-<=13-PASS



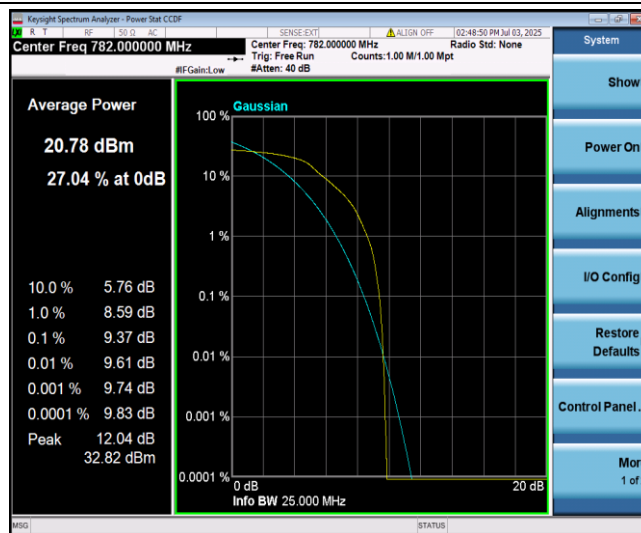
Band13-5MHz-16QAM-23205-1-0-Low-12.00-<=13-PASS



Band13-5MHz-16QAM-23205-6-0-Low-8.77-<=13-PASS



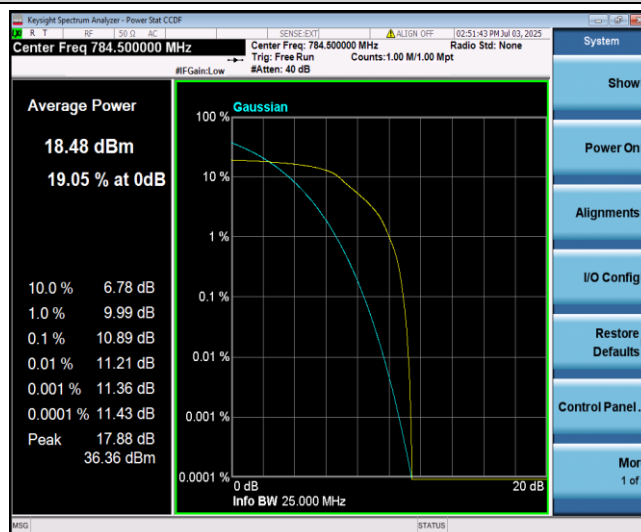
Band13-5MHz-16QAM-23230-1-0-Low-8.31-<=13-PASS



Band13-5MHz-16QAM-23230-6-0-Low-9.37-<=13-PASS



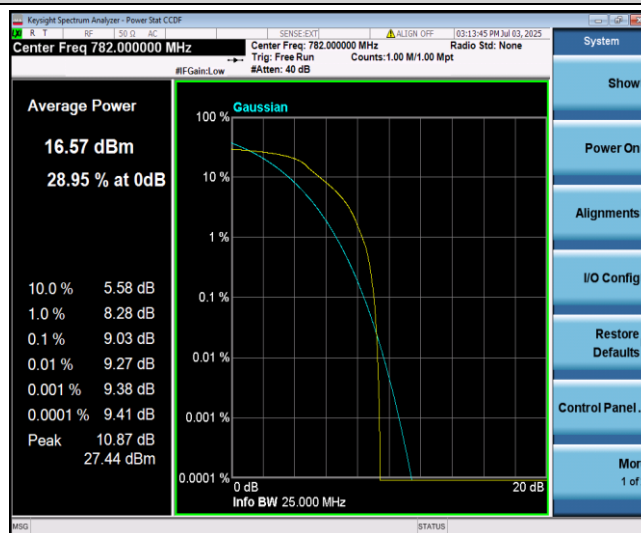
Band13-5MHz-16QAM-23255-1-0-High-8.56-<=13-PASS



Band13-5MHz-16QAM-23255-6-0-High-10.89-<=13-PASS



Band13-10MHz-QPSK-23230-1-0-Low-9.07-<=13-PASS



Band13-10MHz-QPSK-23230-6-0-Low-9.03-<=13-PASS



Band13-10MHz-16QAM-23230-1-0-Low-9.51-<=13-PASS



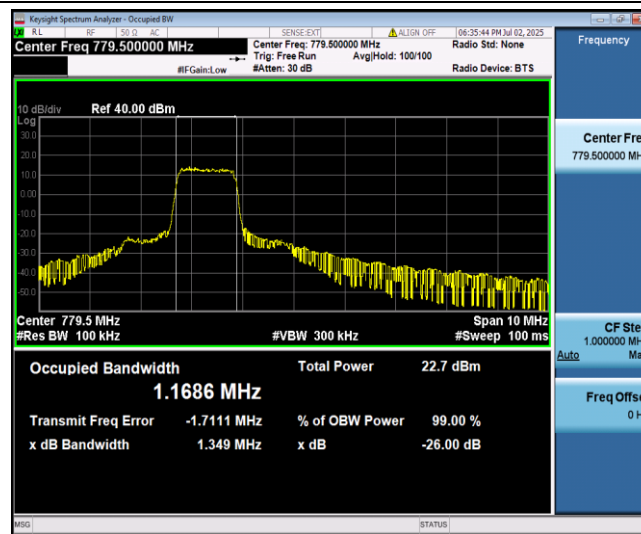
Band13-10MHz-16QAM-23230-6-0-Low-11.62-<=13-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	23205	QPSK	6	0	Low	1.1686	1.169	PASS
Band13	5MHz	23230	QPSK	6	0	Low	1.1585	1.158	PASS
Band13	5MHz	23255	QPSK	6	0	High	1.1630	1.163	PASS
Band13	5MHz	23205	16QAM	6	0	Low	1.1673	1.167	PASS
Band13	5MHz	23230	16QAM	6	0	Low	1.1583	1.158	PASS
Band13	5MHz	23255	16QAM	6	0	High	1.1645	1.164	PASS
Band13	10MHz	23230	QPSK	6	0	Low	1.2933	1.293	PASS
Band13	10MHz	23230	16QAM	6	0	Low	1.3052	1.305	PASS

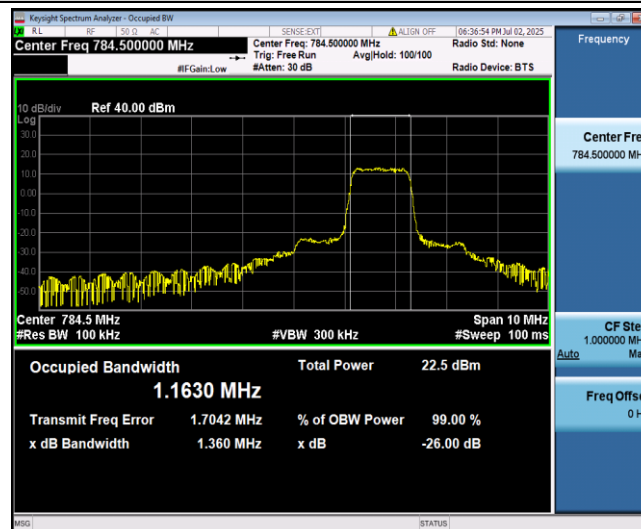
Test Graphs



Band13-5MHz-QPSK-23205-6-0-Low-1.1686-1.169-PASS



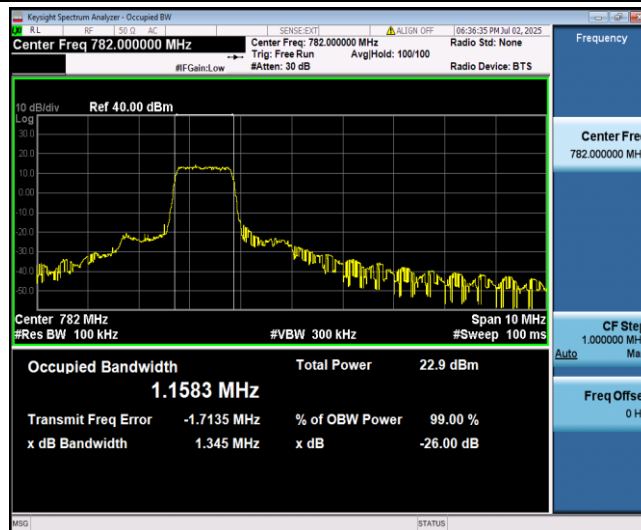
Band13-5MHz-QPSK-23230-6-0-Low-1.1585-1.158-PASS



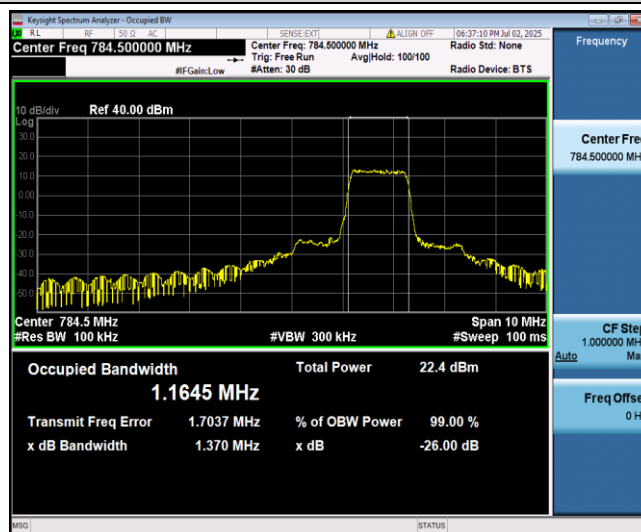
Band13-5MHz-QPSK-23255-6-0-High-1.1630-1.163-PASS



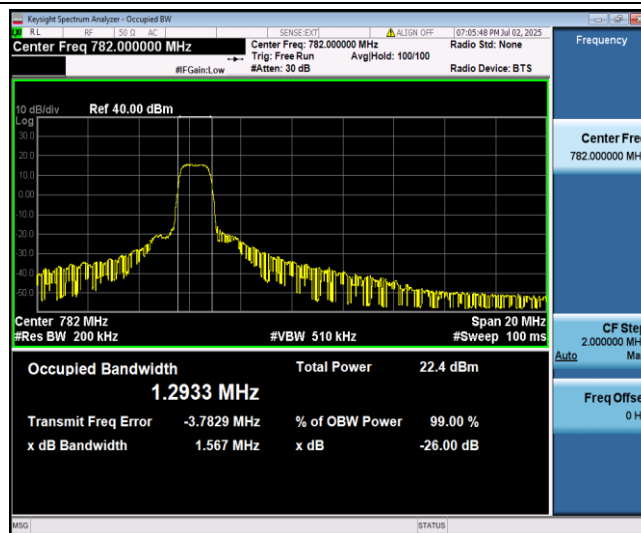
Band13-5MHz-16QAM-23205-6-0-Low-1.1673-1.167-PASS



Band13-5MHz-16QAM-23230-6-0-Low-1.1583-1.158-PASS



Band13-5MHz-16QAM-23255-6-0-High-1.1645-1.164-PASS



Band13-10MHz-QPSK-23230-6-0-Low-1.2933-1.293-PASS



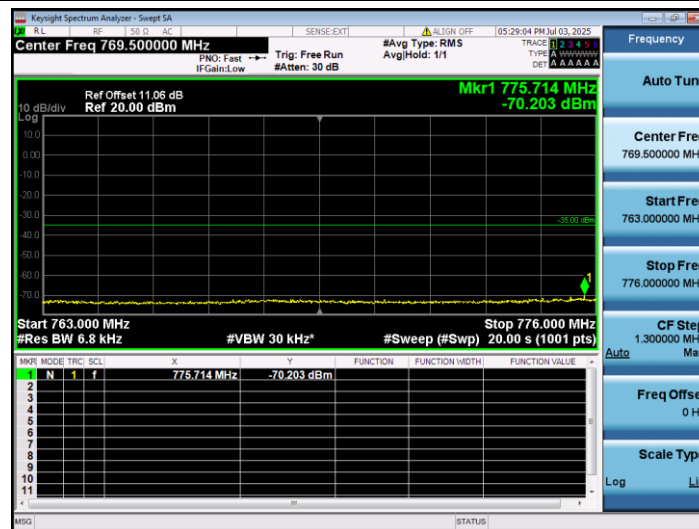
Band13-10MHz-16QAM-23230-6-0-Low-1.3052-1.305-PASS

Appendix D: Band Edge

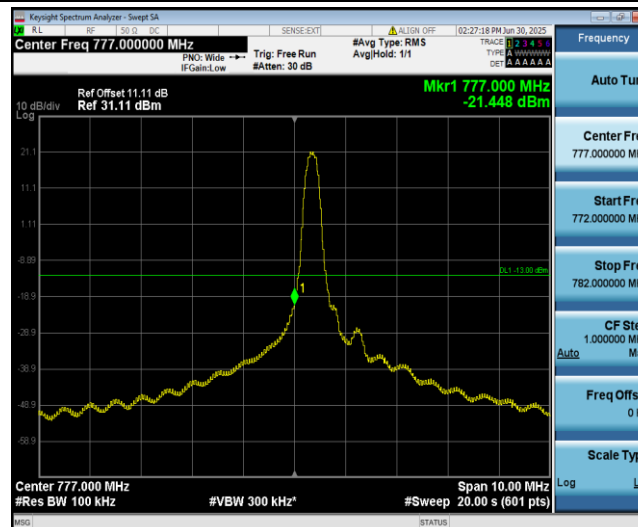
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	-21.45	PASS
Band13	5MHz	23205	QPSK	6	0	Low	-24.89	PASS
Band13	5MHz	23255	QPSK	1	0	High	-38.68	PASS
Band13	5MHz	23255	QPSK	6	0	High	-23.76	PASS
Band13	5MHz	23205	16QAM	1	0	Low	-20.60	PASS
Band13	5MHz	23205	16QAM	6	0	Low	-24.45	PASS
Band13	5MHz	23255	16QAM	1	0	High	-38.11	PASS
Band13	5MHz	23255	16QAM	6	0	High	-23.87	PASS

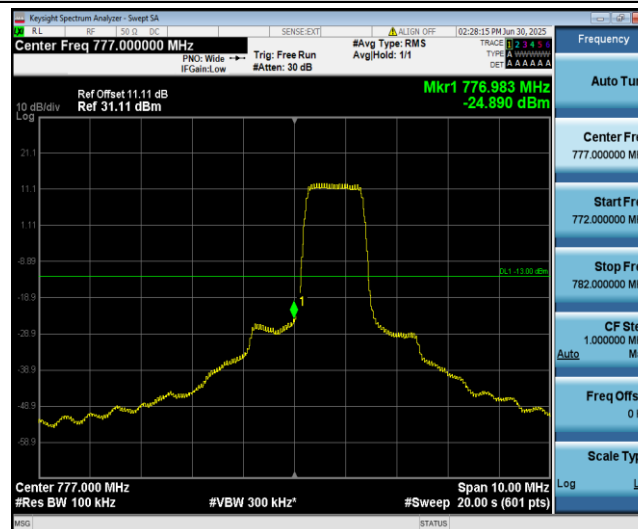
Test Graphs



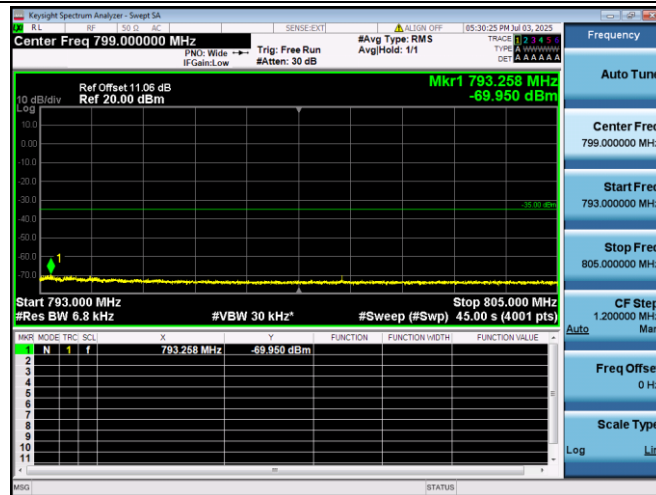
Band13-5MHz-QPSK-23205-1-0-Low--70.203-PASS



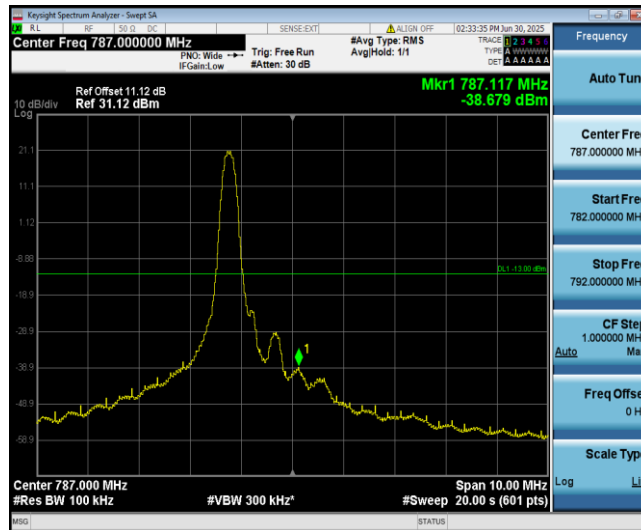
Band13-5MHz-QPSK-23205-1-0-Low--21.45-PASS



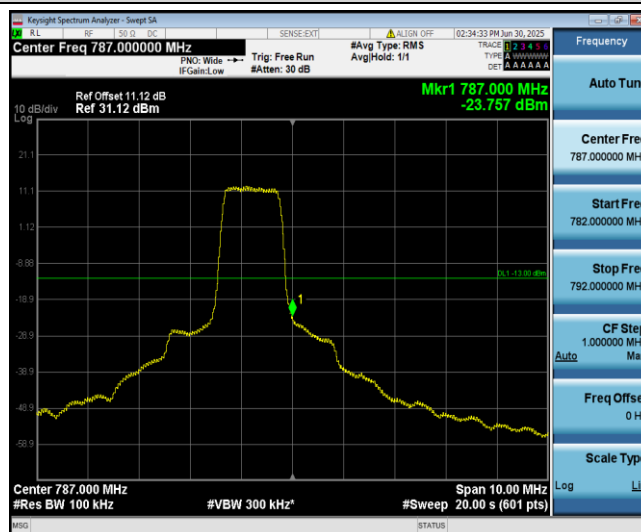
Band13-5MHz-QPSK-23205-6-0-Low--24.89-PASS



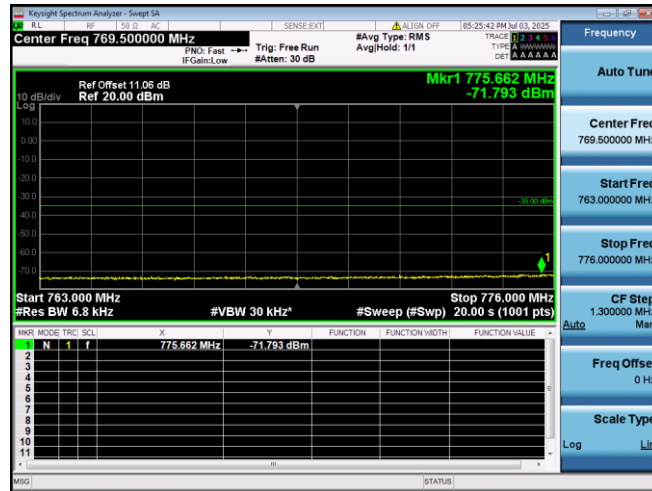
Band13-5MHz-QPSK-23255-6-0-Low--69.950-PASS



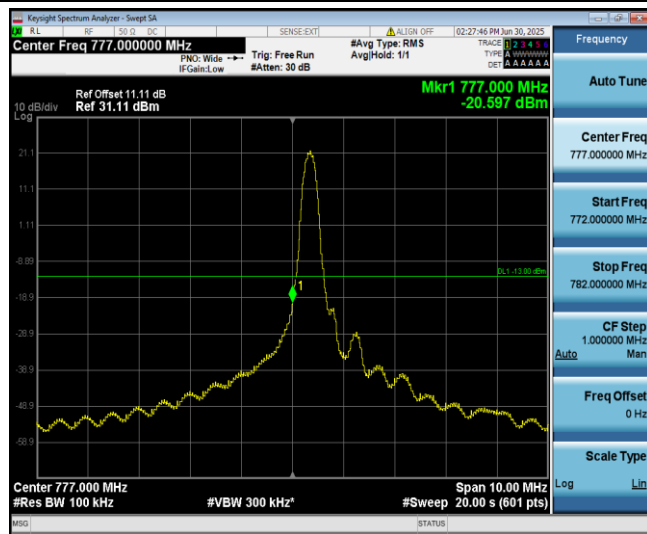
Band13-5MHz-QPSK-23255-1-0-High--38.68-PASS



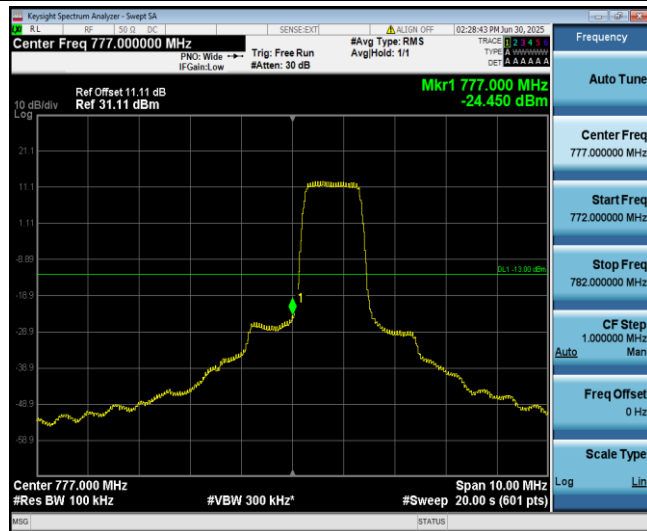
Band13-5MHz-QPSK-23255-6-0-High--23.76-PASS



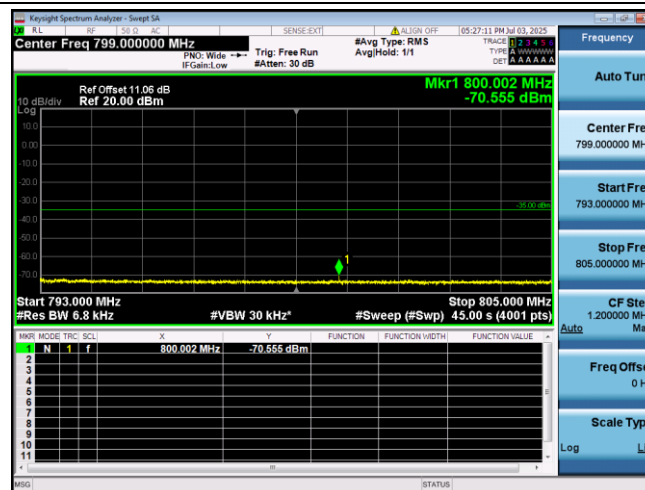
Band13-5MHz-16QAM-23205-1-0-Low--71.793-PASS



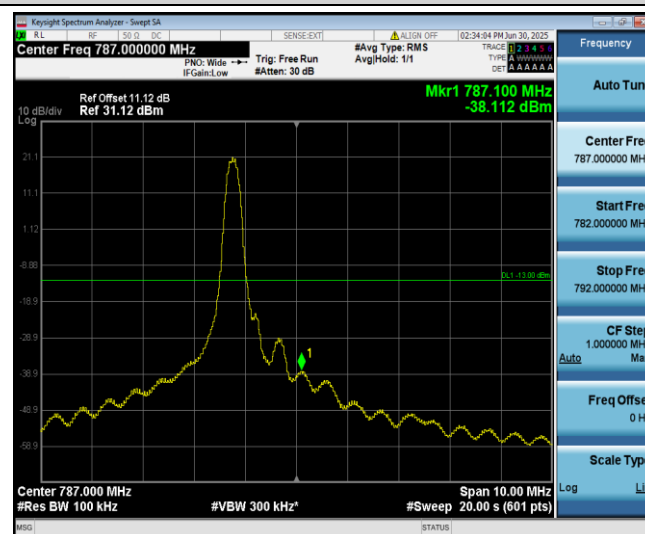
Band13-5MHz-16QAM-23205-1-0-Low--20.60-PASS



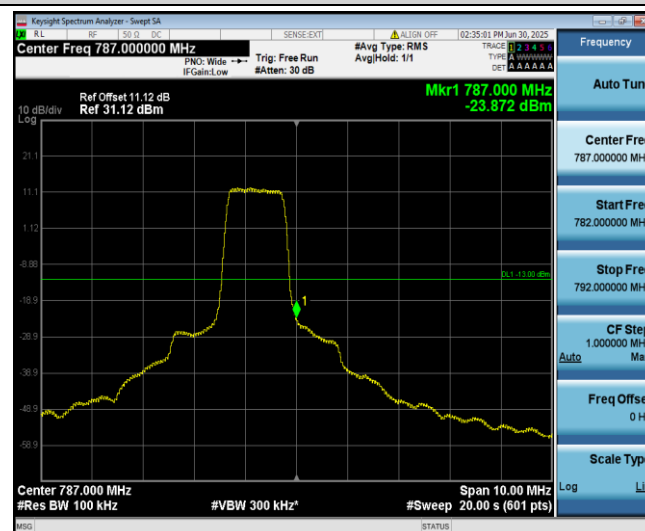
Band13-5MHz-16QAM-23205-6-0-Low--24.45-PASS



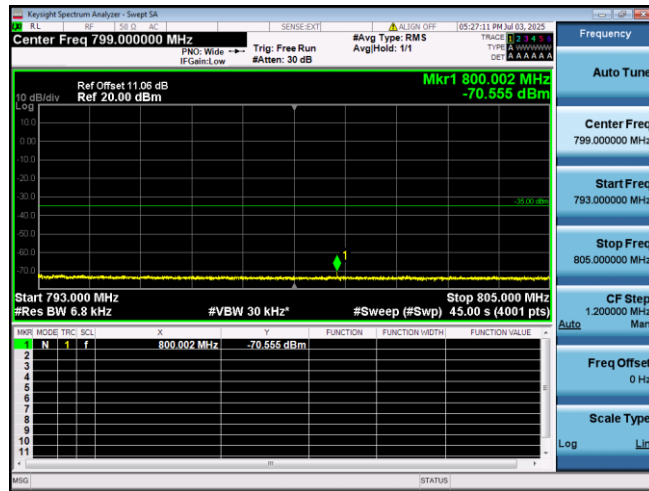
Band13-5MHz-16QAM-23255-6-0-Low--70.555-PASS



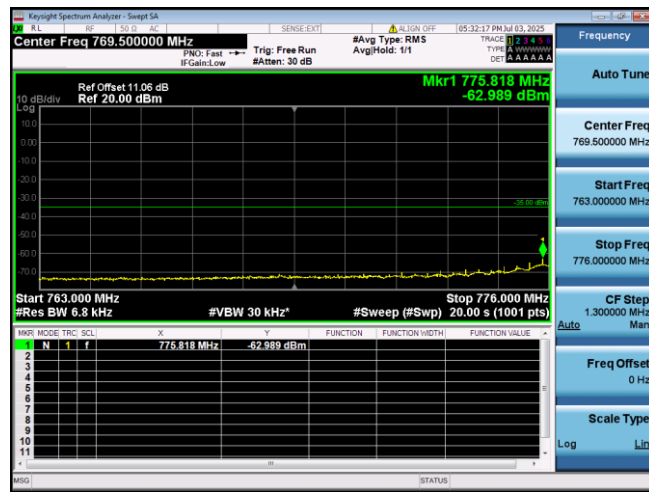
Band13-5MHz-16QAM-23255-1-0-High--38.11-PASS



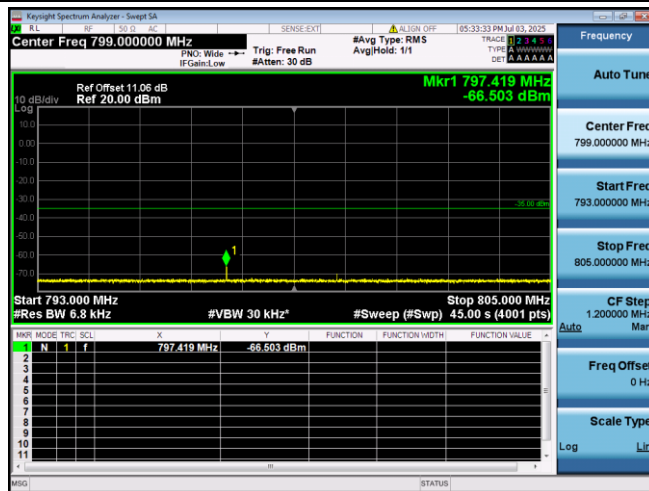
Band13-5MHz-16QAM-23255-6-0-High--23.87-PASS



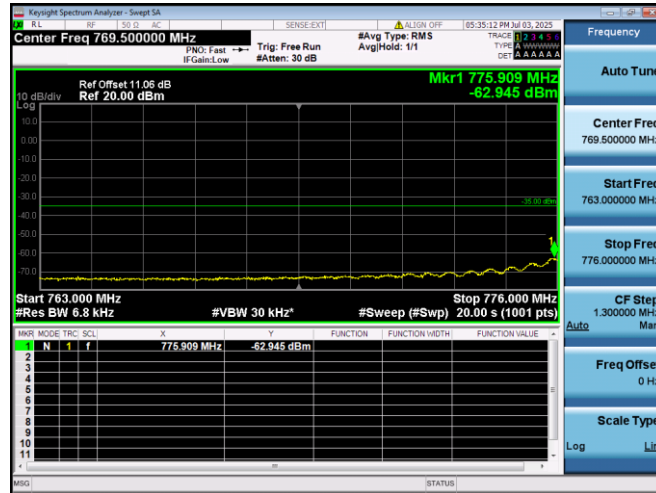
Band13-5MHz-16QAM-23255-6-0-High--70.555-PASS



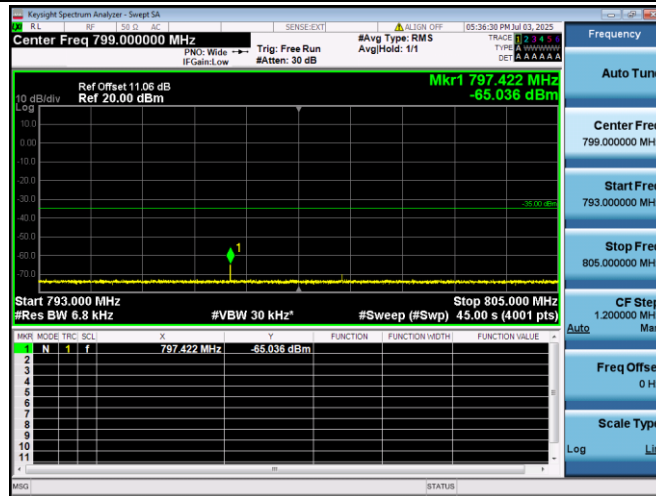
Band13-10MHz-QPSK-23230-1-0-Low--62.989-PASS



Band13-10MHz-QPSK-23230-1-0-Low--66.503-PASS



Band13-10MHz-16QAM-23230-1-0-Low--62.945-PASS



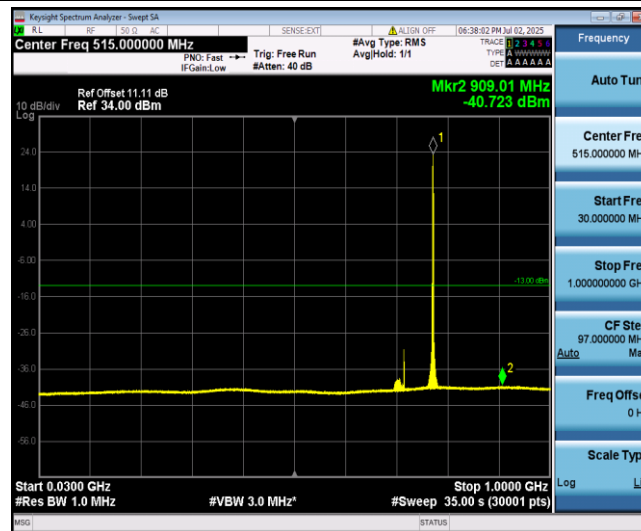
Band13-10MHz-16QAM-23230-1-0-Low--65.036-PASS

Appendix E: Conducted Spurious Emission

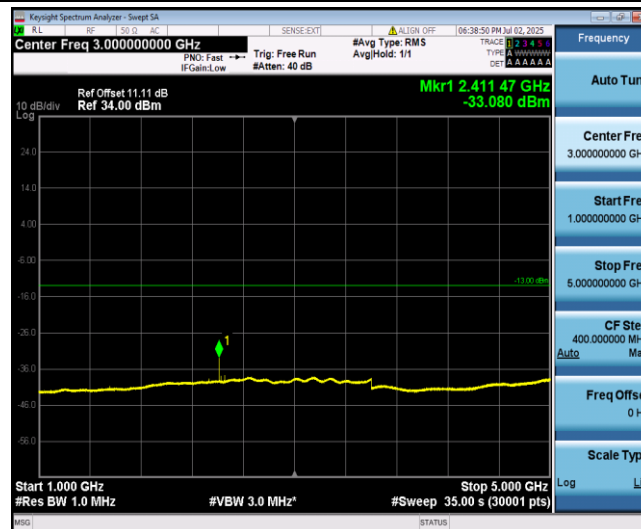
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	30	1000	-40.72	PASS
Band13	5MHz	23205	QPSK	1	0	Low	1000	5000	-33.08	PASS
Band13	5MHz	23205	QPSK	1	0	Low	5000	12000	-36.99	PASS
Band13	5MHz	23205	QPSK	1	0	Low	12000	26500	-24.95	PASS
Band13	5MHz	23230	QPSK	1	0	Low	30	1000	-40.86	PASS
Band13	5MHz	23230	QPSK	1	0	Low	1000	5000	-25.46	PASS
Band13	5MHz	23230	QPSK	1	0	Low	5000	12000	-37.09	PASS
Band13	5MHz	23230	QPSK	1	0	Low	12000	26500	-24.97	PASS
Band13	5MHz	23255	QPSK	1	0	High	30	1000	-40.76	PASS
Band13	5MHz	23255	QPSK	1	0	High	1000	5000	-31.72	PASS
Band13	5MHz	23255	QPSK	1	0	High	5000	12000	-37.07	PASS
Band13	5MHz	23255	QPSK	1	0	High	12000	26500	-25	PASS
Band13	5MHz	23205	16QAM	1	0	Low	30	1000	-40.66	PASS
Band13	5MHz	23205	16QAM	1	0	Low	1000	5000	-30.75	PASS
Band13	5MHz	23205	16QAM	1	0	Low	5000	12000	-37.07	PASS
Band13	5MHz	23205	16QAM	1	0	Low	12000	26500	-24.95	PASS
Band13	5MHz	23230	16QAM	1	0	Low	30	1000	-40.88	PASS
Band13	5MHz	23230	16QAM	1	0	Low	1000	5000	-33.73	PASS
Band13	5MHz	23230	16QAM	1	0	Low	5000	12000	-37.14	PASS
Band13	5MHz	23230	16QAM	1	0	Low	12000	26500	-24.91	PASS
Band13	5MHz	23255	16QAM	1	0	High	30	1000	-40.87	PASS
Band13	5MHz	23255	16QAM	1	0	High	1000	5000	-26.6	PASS
Band13	5MHz	23255	16QAM	1	0	High	5000	12000	-37.13	PASS
Band13	5MHz	23255	16QAM	1	0	High	12000	26500	-25.02	PASS
Band13	10MHz	23230	QPSK	1	0	Low	30	1000	-40.88	PASS
Band13	10MHz	23230	QPSK	1	0	Low	1000	5000	-29.19	PASS
Band13	10MHz	23230	QPSK	1	0	Low	5000	12000	-37.08	PASS
Band13	10MHz	23230	QPSK	1	0	Low	12000	26500	-25.03	PASS
Band13	10MHz	23230	16QAM	1	0	Low	30	1000	-40.91	PASS
Band13	10MHz	23230	16QAM	1	0	Low	1000	5000	-31.86	PASS
Band13	10MHz	23230	16QAM	1	0	Low	5000	12000	-36.99	PASS
Band13	10MHz	23230	16QAM	1	0	Low	12000	26500	-24.94	PASS

Test Graphs



Band13-5MHz-QPSK-23205-1-0-Low-30-1000--40.72-PASS



Band13-5MHz-QPSK-23205-1-0-Low-1000-5000--33.08-PASS



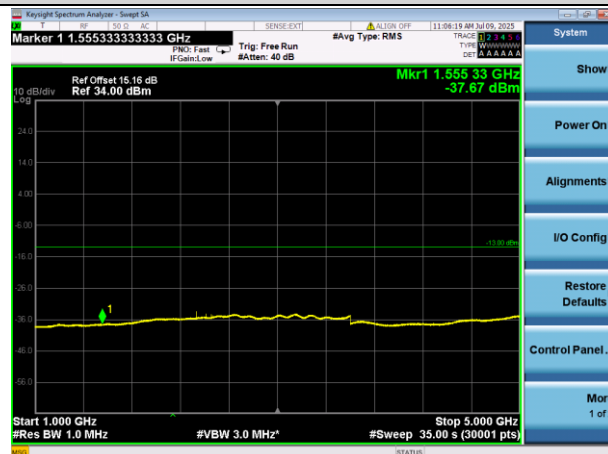
Band13-5MHz-QPSK-23205-1-0-Low-5000-12000--36.99-PASS



Band13-5MHz-QPSK-23205-1-0-Low-12000-26500--24.95-PASS



Band13-5MHz-QPSK-23230-1-0-Low-30-1000--40.86-PASS



Band13-5MHz-QPSK-23230-1-0-Low-1000-5000--25.46-PASS



Band13-5MHz-QPSK-23230-1-0-Low-5000-12000--37.09-PASS



Band13-5MHz-QPSK-23230-1-0-Low-12000-26500--24.97-PASS



Band13-5MHz-QPSK-23255-1-0-High-30-1000--40.76-PASS