

Appendix A: Effective (Isotropic) Radiated Power

Test Result

Test Band: LTE CatM1 B2 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.64	21.64	21.69	/	2.33	23.97	23.97	24.02	33.01	PASS
	1	2	21.59	21.74	21.74	/	2.33	23.92	24.07	24.07	33.01	PASS
	1	5	21.39	21.63	21.56	/	2.33	23.72	23.96	23.89	33.01	PASS
	3	0	21.57	21.62	21.59	/	2.33	23.9	23.95	23.92	33.01	PASS
	3	2	21.68	21.71	21.64	/	2.33	24.01	24.04	23.97	33.01	PASS
	3	3	21.46	21.57	21.56	/	2.33	23.79	23.9	23.89	33.01	PASS
	6	0	20.62	20.83	20.80	/	2.33	22.95	23.16	23.13	33.01	PASS
16QAM	1	0	21.44	21.15	21.17	/	2.33	23.77	23.48	23.5	33.01	PASS
	1	2	20.75	21.12	21.12	/	2.33	23.08	23.45	23.45	33.01	PASS
	1	5	20.71	21.27	20.92	/	2.33	23.04	23.6	23.25	33.01	PASS
	3	0	21.08	21.38	20.98	/	2.33	23.41	23.71	23.31	33.01	PASS
	3	2	21.11	21.22	21.19	/	2.33	23.44	23.55	23.52	33.01	PASS
	3	3	21.02	21.06	21.21	/	2.33	23.35	23.39	23.54	33.01	PASS
	6	0	21.06	20.82	20.84	/	2.33	23.39	23.15	23.17	33.01	PASS

Test Band: LTE CatM1 B2 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.76	21.97	21.76	/	2.33	24.09	24.3	24.09	33.01	PASS
	1	2	21.42	21.59	21.93	/	2.33	23.75	23.92	24.26	33.01	PASS
	1	5	21.31	21.45	21.75	/	2.33	23.64	23.78	24.08	33.01	PASS
	3	0	20.54	20.49	20.53	/	2.33	22.87	22.82	22.86	33.01	PASS
	3	2	20.49	20.47	20.52	/	2.33	22.82	22.8	22.85	33.01	PASS
	3	3	20.53	20.45	20.57	/	2.33	22.86	22.78	22.9	33.01	PASS
	6	0	20.49	20.94	20.66	/	2.33	22.82	23.27	22.99	33.01	PASS
16QAM	1	0	21.44	21.36	20.92	/	2.33	23.77	23.69	23.25	33.01	PASS
	1	2	20.72	21.16	20.75	/	2.33	23.05	23.49	23.08	33.01	PASS
	1	5	20.52	21.42	21.02	/	2.33	22.85	23.75	23.35	33.01	PASS
	3	0	20.57	20.75	20.62	/	2.33	22.9	23.08	22.95	33.01	PASS
	3	2	20.45	20.78	20.67	/	2.33	22.78	23.11	23	33.01	PASS
	3	3	20.58	20.86	20.62	/	2.33	22.91	23.19	22.95	33.01	PASS
	6	0	20.55	20.78	20.54	/	2.33	22.88	23.11	22.87	33.01	PASS

Test Band: LTE CatM1 B2 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.55	21.74	21.65	/	2.33	23.88	24.07	23.98	33.01	PASS
	1	2	21.59	21.79	21.96	/	2.33	23.92	24.12	24.29	33.01	PASS
	1	5	21.42	21.53	21.72	/	2.33	23.75	23.86	24.05	33.01	PASS
	3	0	20.41	20.39	20.48	/	2.33	22.74	22.72	22.81	33.01	PASS
	3	2	20.39	20.52	20.37	/	2.33	22.72	22.85	22.7	33.01	PASS
	3	3	20.52	20.45	20.46	/	2.33	22.85	22.78	22.79	33.01	PASS
	6	0	20.38	20.81	20.66	/	2.33	22.71	23.14	22.99	33.01	PASS
16QAM	1	0	21.43	21.23	20.88	/	2.33	23.76	23.56	23.21	33.01	PASS
	1	2	20.63	20.82	20.82	/	2.33	22.96	23.15	23.15	33.01	PASS
	1	5	20.69	21.13	21.31	/	2.33	23.02	23.46	23.64	33.01	PASS
	3	0	20.76	20.89	20.65	/	2.33	23.09	23.22	22.98	33.01	PASS
	3	2	20.66	20.82	20.63	/	2.33	22.99	23.15	22.96	33.01	PASS
	3	3	20.46	20.77	20.66	/	2.33	22.79	23.1	22.99	33.01	PASS
	6	0	20.44	20.59	20.43	/	2.33	22.77	22.92	22.76	33.01	PASS

Test Band: LTE CatM1 B2 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.82	21.98	21.85	/	2.33	24.15	24.31	24.18	33.01	PASS
	1	2	21.89	21.72	21.96	/	2.33	24.22	24.05	24.29	33.01	PASS
	1	5	21.64	21.76	21.69	/	2.33	23.97	24.09	24.02	33.01	PASS
	3	0	20.53	20.57	20.65	/	2.33	22.86	22.9	22.98	33.01	PASS
	3	2	20.68	20.53	20.58	/	2.33	23.01	22.86	22.91	33.01	PASS
	3	3	20.51	20.45	20.53	/	2.33	22.84	22.78	22.86	33.01	PASS
	6	0	20.39	20.95	20.77	/	2.33	22.72	23.28	23.1	33.01	PASS
16QAM	1	0	21.48	21.27	20.75	/	2.33	23.81	23.6	23.08	33.01	PASS
	1	2	20.94	20.88	21.11	/	2.33	23.27	23.21	23.44	33.01	PASS
	1	5	20.55	21.14	21.46	/	2.33	22.88	23.47	23.79	33.01	PASS
	3	0	20.78	20.81	20.65	/	2.33	23.11	23.14	22.98	33.01	PASS
	3	2	20.55	20.71	20.77	/	2.33	22.88	23.04	23.1	33.01	PASS
	3	3	20.88	20.77	20.63	/	2.33	23.21	23.1	22.96	33.01	PASS
	6	0	20.76	20.69	20.61	/	2.33	23.09	23.02	22.94	33.01	PASS

Test Band: LTE CatM1 B2 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.84	21.91	21.67	/	2.33	24.17	24.24	24	33.01	PASS
	1	2	21.77	21.63	21.65	/	2.33	24.1	23.96	23.98	33.01	PASS
	1	5	21.64	21.75	21.63	/	2.33	23.97	24.08	23.96	33.01	PASS
	3	0	20.58	20.55	20.57	/	2.33	22.91	22.88	22.9	33.01	PASS
	3	2	20.62	20.43	20.52	/	2.33	22.95	22.76	22.85	33.01	PASS
	3	3	20.60	20.49	20.57	/	2.33	22.93	22.82	22.9	33.01	PASS
	6	0	20.58	20.91	20.75	/	2.33	22.91	23.24	23.08	33.01	PASS
16QAM	1	0	21.42	21.05	20.72	/	2.33	23.75	23.38	23.05	33.01	PASS
	1	2	20.65	20.87	20.88	/	2.33	22.98	23.2	23.21	33.01	PASS
	1	5	20.81	21.08	21.48	/	2.33	23.14	23.41	23.81	33.01	PASS
	3	0	20.58	20.88	20.62	/	2.33	22.91	23.21	22.95	33.01	PASS
	3	2	20.56	20.77	20.72	/	2.33	22.89	23.1	23.05	33.01	PASS
	3	3	20.85	20.78	20.68	/	2.33	23.18	23.11	23.01	33.01	PASS
	6	0	20.74	20.71	20.65	/	2.33	23.07	23.04	22.98	33.01	PASS

Test Band: LTE CatM1 B2 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.92	21.87	21.79	/	2.33	24.25	24.2	24.12	33.01	PASS
	1	2	21.99	21.86	21.89	/	2.33	24.32	24.19	24.22	33.01	PASS
	1	5	21.72	21.69	21.76	/	2.33	24.05	24.02	24.09	33.01	PASS
	3	0	20.54	20.53	20.47	/	2.33	22.87	22.86	22.8	33.01	PASS
	3	2	20.74	20.57	20.68	/	2.33	23.07	22.9	23.01	33.01	PASS
	3	3	20.68	20.53	20.55	/	2.33	23.01	22.86	22.88	33.01	PASS
	6	0	20.69	20.94	20.65	/	2.33	23.02	23.27	22.98	33.01	PASS
16QAM	1	0	21.29	20.91	20.76	/	2.33	23.62	23.24	23.09	33.01	PASS
	1	2	20.56	21.11	20.88	/	2.33	22.89	23.44	23.21	33.01	PASS
	1	5	21.14	20.86	21.36	/	2.33	23.47	23.19	23.69	33.01	PASS
	3	0	20.75	20.69	20.75	/	2.33	23.08	23.02	23.08	33.01	PASS
	3	2	20.75	20.81	20.71	/	2.33	23.08	23.14	23.04	33.01	PASS
	3	3	20.84	20.68	20.69	/	2.33	23.17	23.01	23.02	33.01	PASS
	6	0	20.77	20.65	20.61	/	2.33	23.1	22.98	22.94	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

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

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	18607	QPSK	6	0	Low	9.25	<=13	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	10.80	<=13	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	11.34	<=13	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	9.42	<=13	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	11.08	<=13	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	9.31	<=13	PASS
Band2	3MHz	18615	QPSK	6	0	Low	10.51	<=13	PASS
Band2	3MHz	18900	QPSK	6	0	Low	8.94	<=13	PASS
Band2	3MHz	19185	QPSK	6	0	Low	10.88	<=13	PASS
Band2	3MHz	18615	16QAM	6	0	Low	9.62	<=13	PASS
Band2	3MHz	18900	16QAM	6	0	Low	11.15	<=13	PASS
Band2	3MHz	19185	16QAM	6	0	Low	9.66	<=13	PASS
Band2	5MHz	18625	QPSK	6	0	Low	9.85	<=13	PASS
Band2	5MHz	18900	QPSK	6	0	Low	11.56	<=13	PASS
Band2	5MHz	19175	QPSK	6	0	Low	10.79	<=13	PASS
Band2	5MHz	18625	16QAM	6	0	Low	8.02	<=13	PASS
Band2	5MHz	18900	16QAM	6	0	Low	10.15	<=13	PASS
Band2	5MHz	19175	16QAM	6	0	Low	10.98	<=13	PASS
Band2	10MHz	18650	QPSK	6	0	Low	8.77	<=13	PASS
Band2	10MHz	18900	QPSK	6	0	Low	10.77	<=13	PASS
Band2	10MHz	19150	QPSK	6	0	Low	9.29	<=13	PASS
Band2	10MHz	18650	16QAM	6	0	Low	11.04	<=13	PASS
Band2	10MHz	18900	16QAM	6	0	Low	9.49	<=13	PASS
Band2	10MHz	19150	16QAM	6	0	Low	9.32	<=13	PASS
Band2	15MHz	18675	QPSK	6	0	Low	9.50	<=13	PASS
Band2	15MHz	18900	QPSK	6	0	Low	8.83	<=13	PASS
Band2	15MHz	19125	QPSK	6	0	Low	9.59	<=13	PASS
Band2	15MHz	18675	16QAM	6	0	Low	9.40	<=13	PASS
Band2	15MHz	18900	16QAM	6	0	Low	11.33	<=13	PASS
Band2	15MHz	19125	16QAM	6	0	Low	11.11	<=13	PASS
Band2	20MHz	18700	QPSK	6	0	Low	8.83	<=13	PASS
Band2	20MHz	18900	QPSK	6	0	Low	9.08	<=13	PASS
Band2	20MHz	19100	QPSK	6	0	Low	11.43	<=13	PASS
Band2	20MHz	18700	16QAM	6	0	Low	8.69	<=13	PASS
Band2	20MHz	18900	16QAM	6	0	Low	10.83	<=13	PASS
Band2	20MHz	19100	16QAM	6	0	Low	9.59	<=13	PASS

Test Graphs



Band2-1.4MHz-QPSK-18607-6-0-Low-9.25-<=13-PASS



Band2-1.4MHz-QPSK-18900-6-0-Low-10.80-<=13-PASS



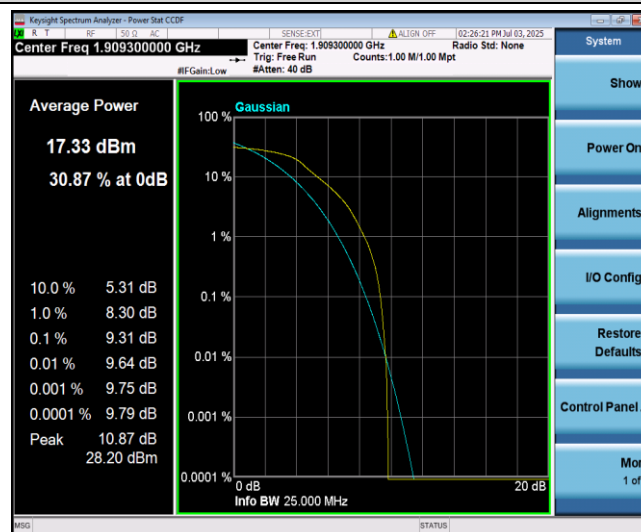
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Band2-1.4MHz-16QAM-18607-6-0-Low-9.42-<=13-PASS



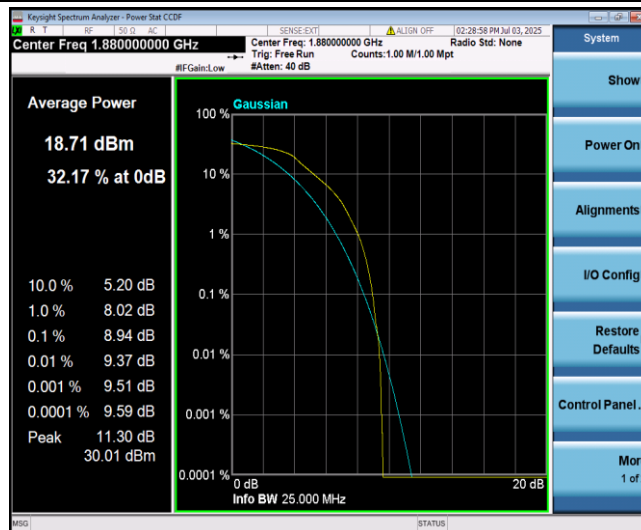
Band2-1.4MHz-16QAM-18900-6-0-Low-11.08-<=13-PASS



Band2-1.4MHz-16QAM-19193-6-0-Low-9.31-<=13-PASS



Band2-3MHz-QPSK-18615-6-0-Low-10.51-13-PASS



Band2-3MHz-QPSK-18900-6-0-Low-8.94-13-PASS



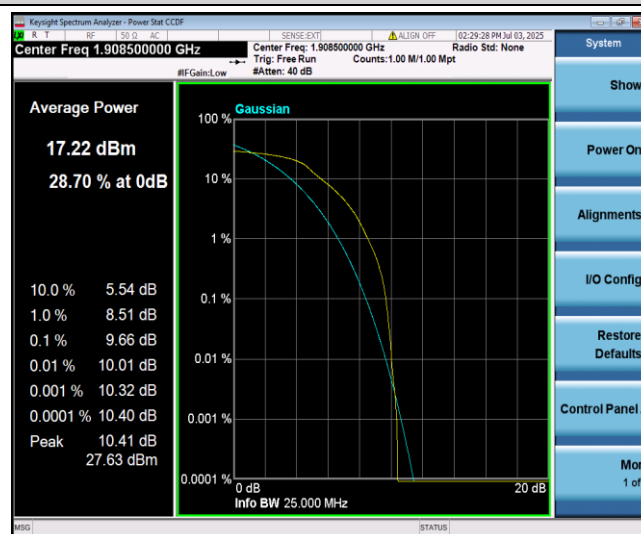
Band2-3MHz-QPSK-19185-6-0-Low-10.88-13-PASS



Band2-3MHz-16QAM-18615-6-0-Low-9.62-<=13-PASS



Band2-3MHz-16QAM-18900-6-0-Low-11.15-<=13-PASS



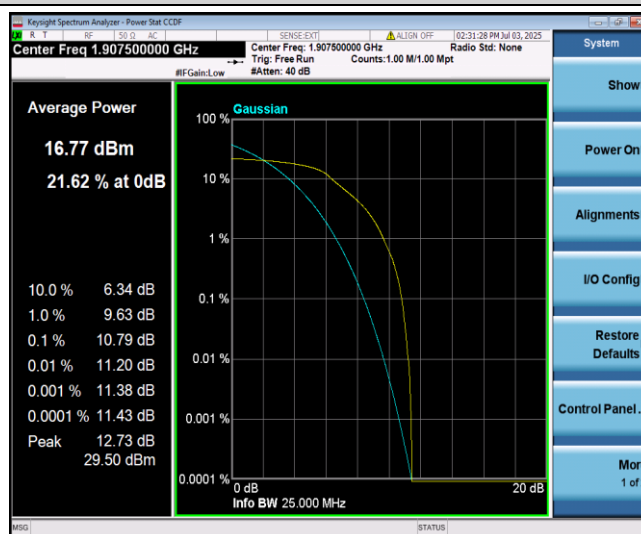
Band2-3MHz-16QAM-19185-6-0-Low-9.66-<=13-PASS



Band2-5MHz-QPSK-18625-6-0-Low-9.85-≤13-PASS



Band2-5MHz-QPSK-18900-6-0-Low-11.56-≤13-PASS



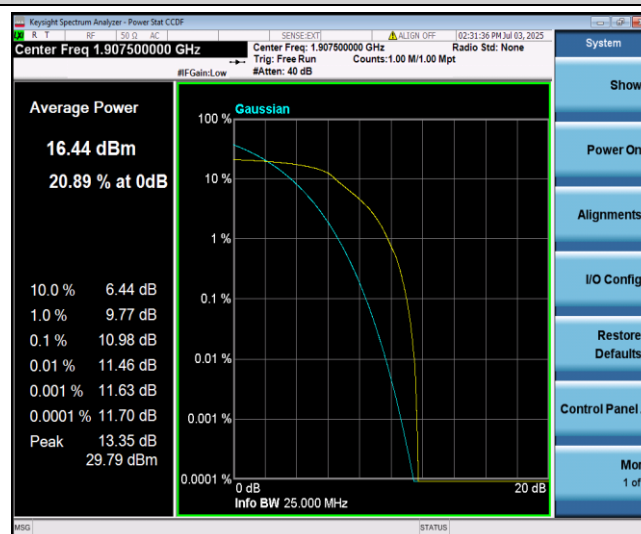
Band2-5MHz-QPSK-19175-6-0-Low-10.79-≤13-PASS



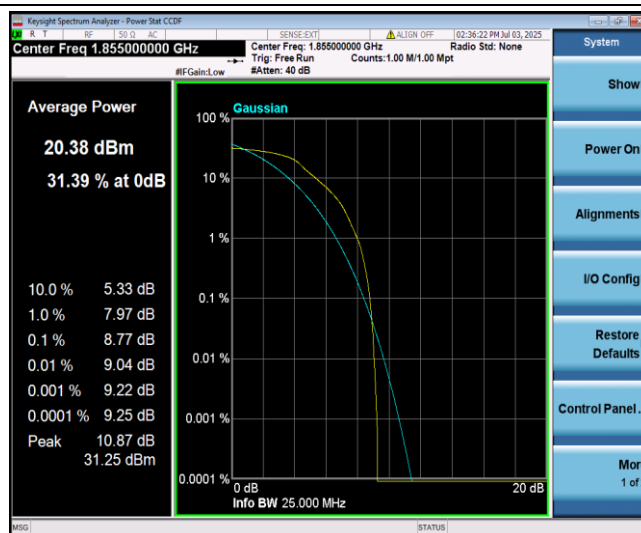
Band2-5MHz-16QAM-18625-6-0-Low-8.02-<=13-PASS



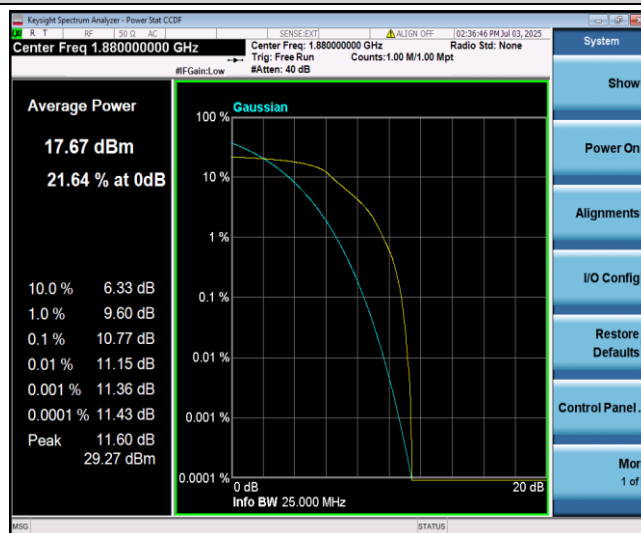
Band2-5MHz-16QAM-18900-6-0-Low-10.15-<=13-PASS



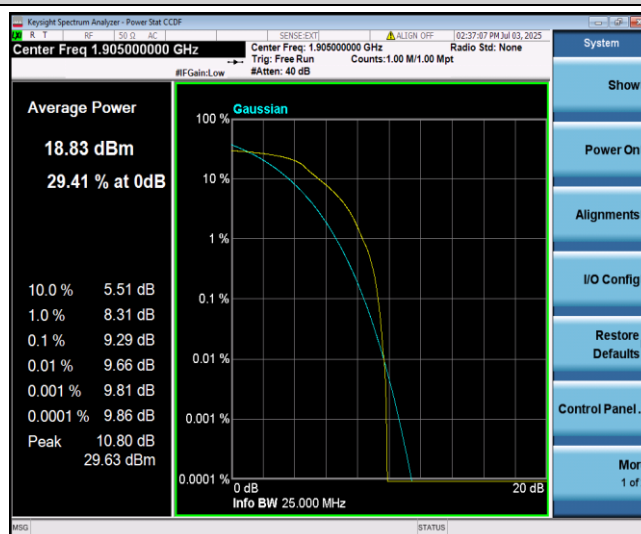
Band2-5MHz-16QAM-19175-6-0-Low-10.98-<=13-PASS



Band2-10MHz-QPSK-18650-6-0-Low-8.77-<=13-PASS



Band2-10MHz-QPSK-18900-6-0-Low-10.77-<=13-PASS



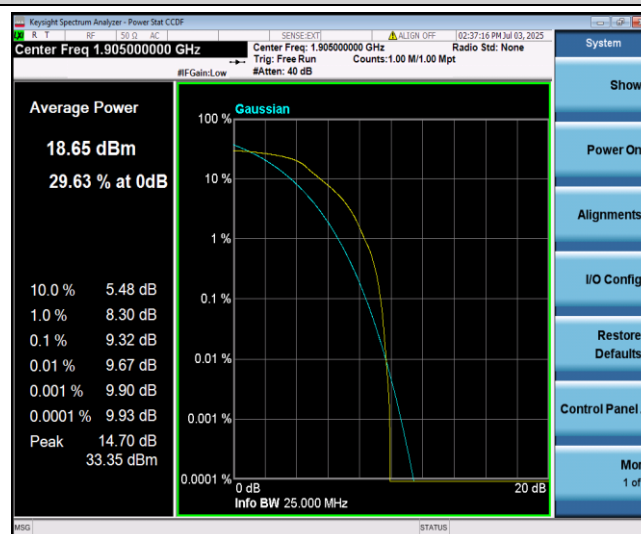
Band2-10MHz-QPSK-19150-6-0-Low-9.29-<=13-PASS



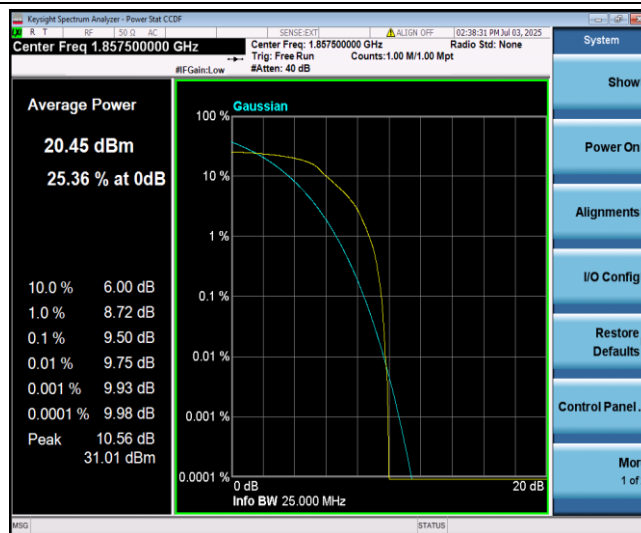
Band2-10MHz-16QAM-18650-6-0-Low-11.04-<=13-PASS



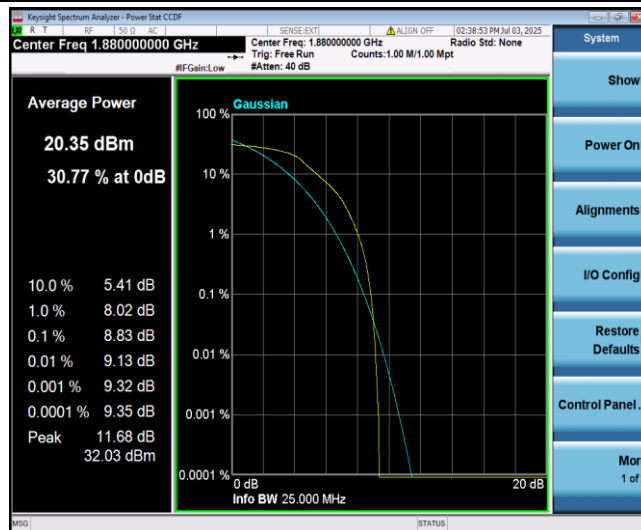
Band2-10MHz-16QAM-18900-6-0-Low-9.49-<=13-PASS



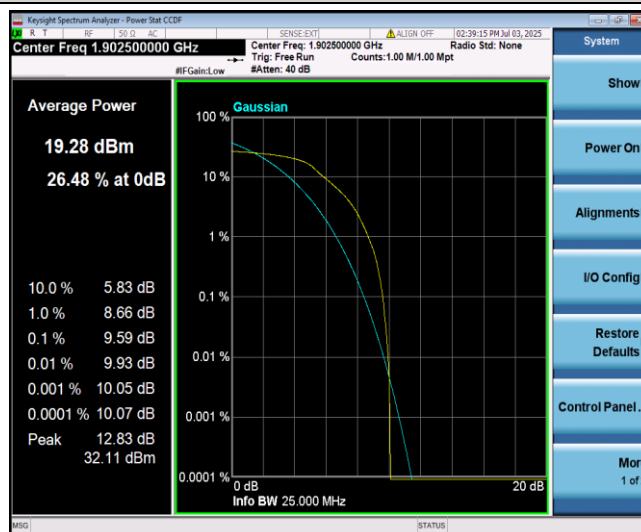
Band2-10MHz-16QAM-19150-6-0-Low-9.32-<=13-PASS



Band2-15MHz-QPSK-18675-6-0-Low-9.50-≤13-PASS



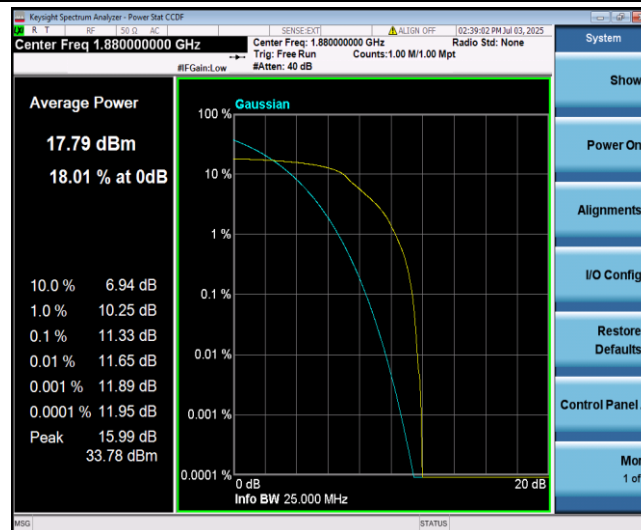
Band2-15MHz-QPSK-18900-6-0-Low-8.83-≤13-PASS



Band2-15MHz-QPSK-19125-6-0-Low-9.59-≤13-PASS



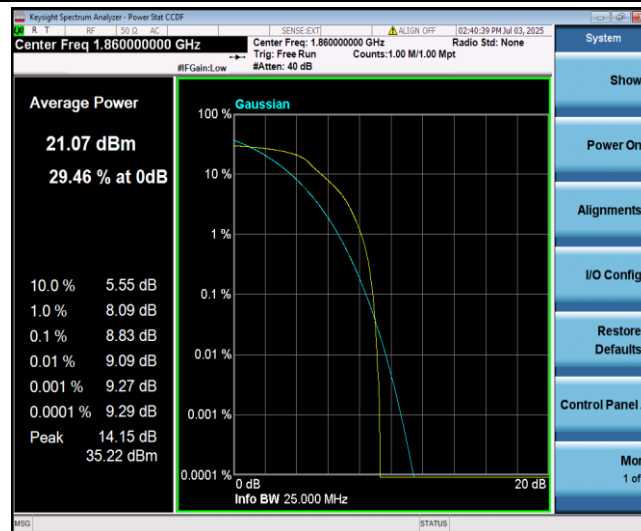
Band2-15MHz-16QAM-18675-6-0-Low-9.40-<=13-PASS



Band2-15MHz-16QAM-18900-6-0-Low-11.33-<=13-PASS



Band2-15MHz-16QAM-19125-6-0-Low-11.11-<=13-PASS



Band2-20MHz-QPSK-18700-6-0-Low-8.83-13-PASS



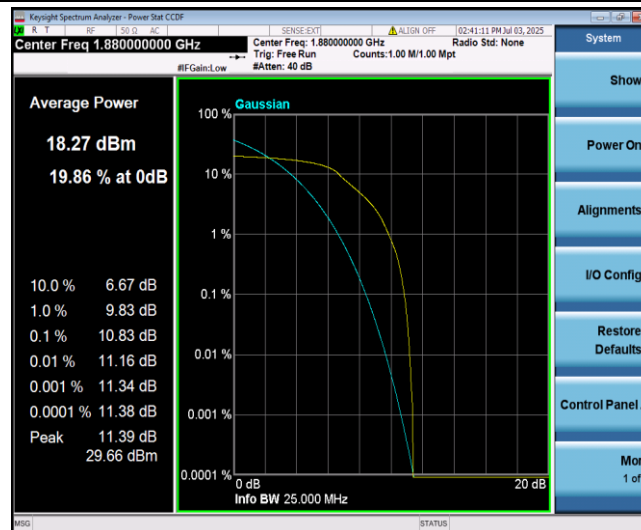
Band2-20MHz-QPSK-18900-6-0-Low-9.08-13-PASS



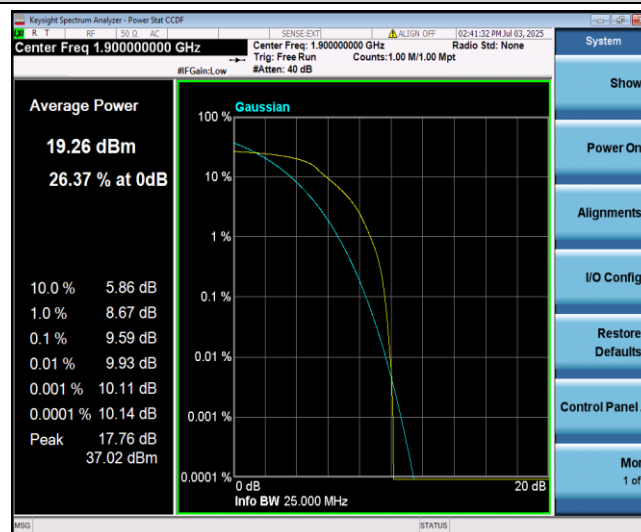
Band2-20MHz-QPSK-19100-6-0-Low-11.43-13-PASS



Band2-20MHz-16QAM-18700-6-0-Low-8.69-=<=13-PASS



Band2-20MHz-16QAM-18900-6-0-Low-10.83-=<=13-PASS



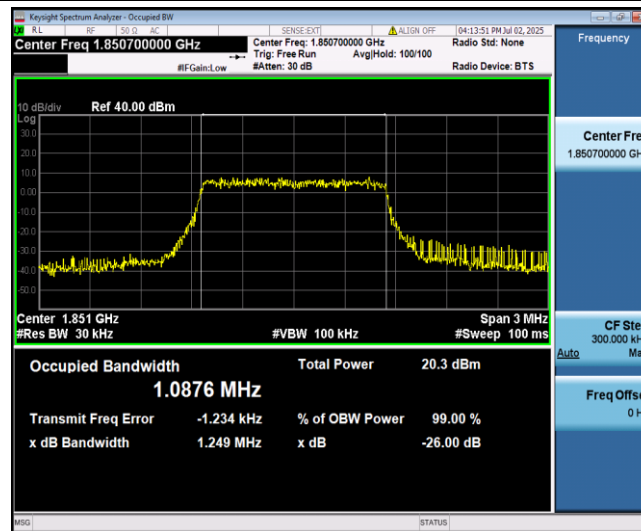
Band2-20MHz-16QAM-19100-6-0-Low-9.59-=<=13-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

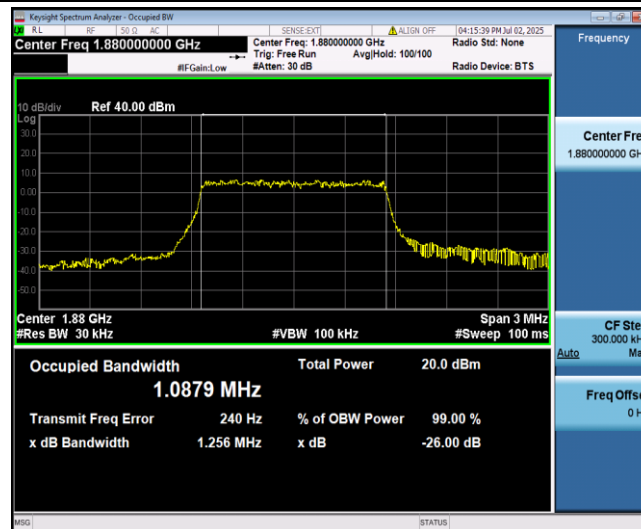
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	18607	QPSK	6	0	Low	1.0876	1.088	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	1.0879	1.088	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	1.0881	1.088	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	1.0893	1.089	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	1.0889	1.089	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	1.0910	1.091	PASS
Band2	3MHz	18615	QPSK	6	0	Low	1.1079	1.108	PASS
Band2	3MHz	18900	QPSK	6	0	Low	1.1110	1.111	PASS
Band2	3MHz	19185	QPSK	6	0	High	1.1079	1.108	PASS
Band2	3MHz	18615	16QAM	6	0	Low	1.1101	1.110	PASS
Band2	3MHz	18900	16QAM	6	0	Low	1.1097	1.110	PASS
Band2	3MHz	19185	16QAM	6	0	High	1.1045	1.105	PASS
Band2	5MHz	18625	QPSK	6	0	Low	1.1689	1.169	PASS
Band2	5MHz	18900	QPSK	6	0	Low	1.1686	1.169	PASS
Band2	5MHz	19175	QPSK	6	0	High	1.1617	1.162	PASS
Band2	5MHz	18625	16QAM	6	0	Low	1.1650	1.165	PASS
Band2	5MHz	18900	16QAM	6	0	Low	1.1668	1.167	PASS
Band2	5MHz	19175	16QAM	6	0	High	1.1565	1.156	PASS
Band2	10MHz	18650	QPSK	6	0	Low	1.1718	1.172	PASS
Band2	10MHz	18900	QPSK	6	0	Low	1.1681	1.168	PASS
Band2	10MHz	19150	QPSK	6	0	High	1.1572	1.157	PASS
Band2	10MHz	18650	16QAM	6	0	Low	1.1711	1.171	PASS
Band2	10MHz	18900	16QAM	6	0	Low	1.1688	1.169	PASS
Band2	10MHz	19150	16QAM	6	0	High	1.1580	1.158	PASS
Band2	15MHz	18675	QPSK	6	0	Low	1.4474	1.447	PASS
Band2	15MHz	18900	QPSK	6	0	Low	1.4465	1.447	PASS
Band2	15MHz	19125	QPSK	6	0	High	1.4462	1.446	PASS
Band2	15MHz	18675	16QAM	6	0	Low	1.4486	1.449	PASS
Band2	15MHz	18900	16QAM	6	0	Low	1.4490	1.449	PASS
Band2	15MHz	19125	16QAM	6	0	High	1.4461	1.446	PASS
Band2	20MHz	18700	QPSK	6	0	Low	1.7876	1.788	PASS
Band2	20MHz	18900	QPSK	6	0	Low	1.7860	1.786	PASS
Band2	20MHz	19100	QPSK	6	0	High	1.7911	1.791	PASS
Band2	20MHz	18700	16QAM	6	0	Low	1.7929	1.793	PASS
Band2	20MHz	18900	16QAM	6	0	Low	1.7923	1.792	PASS
Band2	20MHz	19100	16QAM	6	0	High	1.7899	1.790	PASS

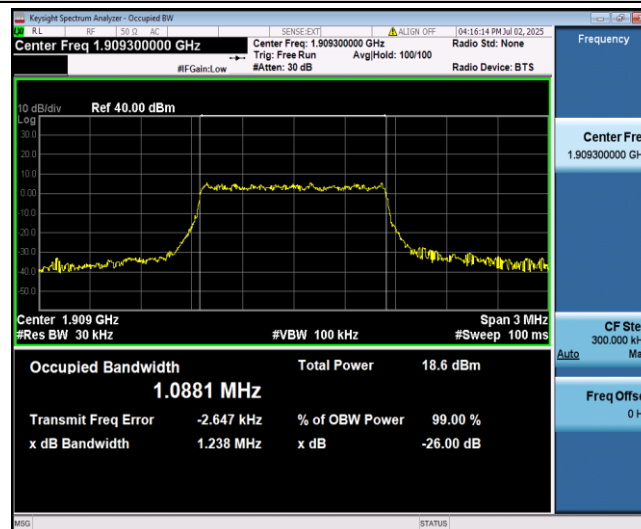
Test Graphs



Band2-1.4MHz-QPSK-18607-6-0-Low-1.0876-1.088-PASS



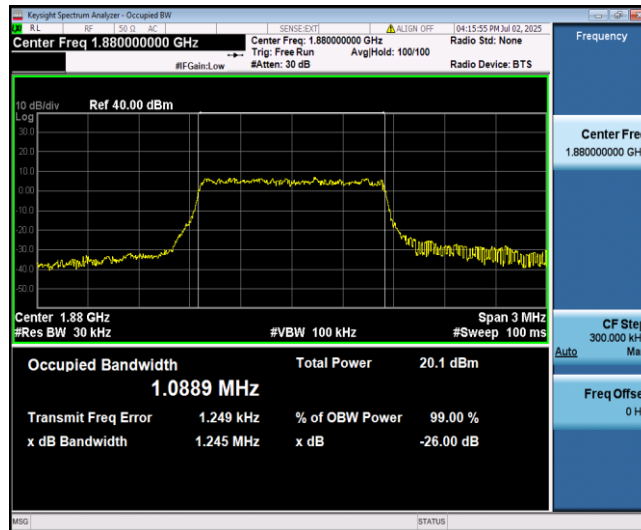
Band2-1.4MHz-QPSK-18900-6-0-Low-1.0879-1.088-PASS



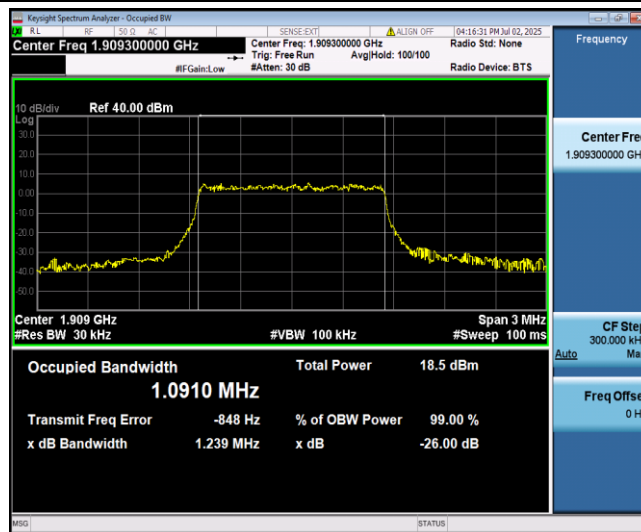
Band2-1.4MHz-QPSK-19193-6-0-High-1.0881-1.088-PASS



Band2-1.4MHz-16QAM-18607-6-0-Low-1.0893-1.089-PASS



Band2-1.4MHz-16QAM-18900-6-0-Low-1.0889-1.089-PASS



Band2-1.4MHz-16QAM-19193-6-0-High-1.0910-1.091-PASS