

Appendix for LTE Band5

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Appendix A: Effective Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Conducted Power(dBm)	Antenna Gain(dBi)	ERP (dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	22.98	2.55	23.38	-999~38.45	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	21.85	2.55	22.25	-999~38.45	PASS
Band5	1.4MHz	20407	QPSK	1	5	Low	23.19	2.55	23.59	-999~38.45	PASS
Band5	1.4MHz	20407	16QAM	1	5	Low	22.11	2.55	22.51	-999~38.45	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	21.07	2.55	21.47	-999~38.45	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	21.06	2.55	21.46	-999~38.45	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	22.76	2.55	23.16	-999~38.45	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	21.76	2.55	22.16	-999~38.45	PASS
Band5	1.4MHz	20525	QPSK	1	5	Low	23.13	2.55	23.53	-999~38.45	PASS
Band5	1.4MHz	20525	16QAM	1	5	Low	22.05	2.55	22.45	-999~38.45	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	20.98	2.55	21.38	-999~38.45	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	20.98	2.55	21.38	-999~38.45	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	22.87	2.55	23.27	-999~38.45	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	21.81	2.55	22.21	-999~38.45	PASS
Band5	1.4MHz	20643	QPSK	1	5	High	22.96	2.55	23.36	-999~38.45	PASS
Band5	1.4MHz	20643	16QAM	1	5	High	21.99	2.55	22.39	-999~38.45	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	21.01	2.55	21.41	-999~38.45	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	20.89	2.55	21.2	-999~38.45	PASS

d5	z		M						9	.45	S
Ban d5	3MHz	20415	QPS K	1	0	Low	22.9	2.55	23.3	-999~38 .45	PAS S
Ban d5	3MHz	20415	16QA M	1	0	Low	21.76	2.55	22.1 6	-999~38 .45	PAS S
Ban d5	3MHz	20415	QPS K	1	5	Low	23.22	2.55	23.6 2	-999~38 .45	PAS S
Ban d5	3MHz	20415	16QA M	1	5	Low	22.15	2.55	22.5 5	-999~38 .45	PAS S
Ban d5	3MHz	20415	QPS K	6	0	Low	21.11	2.55	21.5 1	-999~38 .45	PAS S
Ban d5	3MHz	20415	16QA M	6	0	Low	21.11	2.55	21.5 1	-999~38 .45	PAS S
Ban d5	3MHz	20525	QPS K	1	0	Low	22.81	2.55	23.2 1	-999~38 .45	PAS S
Ban d5	3MHz	20525	16QA M	1	0	Low	21.89	2.55	22.2 9	-999~38 .45	PAS S
Ban d5	3MHz	20525	QPS K	1	5	Low	23.04	2.55	23.4 4	-999~38 .45	PAS S
Ban d5	3MHz	20525	16QA M	1	5	Low	21.99	2.55	22.3 9	-999~38 .45	PAS S
Ban d5	3MHz	20525	QPS K	6	0	Low	21.04	2.55	21.4 4	-999~38 .45	PAS S
Ban d5	3MHz	20525	16QA M	6	0	Low	21.03	2.55	21.4 3	-999~38 .45	PAS S
Ban d5	3MHz	20635	QPS K	1	0	High	22.94	2.55	23.3 4	-999~38 .45	PAS S
Ban d5	3MHz	20635	16QA M	1	0	High	21.84	2.55	22.2 4	-999~38 .45	PAS S
Ban d5	3MHz	20635	QPS K	1	5	High	23.04	2.55	23.4 4	-999~38 .45	PAS S
Ban d5	3MHz	20635	16QA M	1	5	High	22.11	2.55	22.5 1	-999~38 .45	PAS S
Ban d5	3MHz	20635	QPS K	6	0	High	20.89	2.55	21.2 9	-999~38 .45	PAS S
Ban d5	3MHz	20635	16QA M	6	0	High	20.9	2.55	21.3	-999~38 .45	PAS S
Ban d5	5MHz	20425	QPS K	1	0	Low	22.88	2.55	23.2 8	-999~38 .45	PAS S
Ban d5	5MHz	20425	16QA M	1	0	Low	22.8	2.55	23.2	-999~38 .45	PAS S
Ban	5MHz	20425	QPS	1	5	Low	23.23	2.55	23.6	-999~38	PAS

d5			K						3	.45	S
Ban d5	5MHz	20425	16QA M	1	5	Low	22.79	2.55	23.19	-999~38.45	PAS S
Ban d5	5MHz	20425	QPS K	6	0	Low	21.88	2.55	22.28	-999~38.45	PAS S
Ban d5	5MHz	20425	16QA M	6	0	Low	21.89	2.55	22.29	-999~38.45	PAS S
Ban d5	5MHz	20525	QPS K	1	0	Low	22.9	2.55	23.3	-999~38.45	PAS S
Ban d5	5MHz	20525	16QA M	1	0	Low	22.65	2.55	23.05	-999~38.45	PAS S
Ban d5	5MHz	20525	QPS K	1	5	Low	22.88	2.55	23.28	-999~38.45	PAS S
Ban d5	5MHz	20525	16QA M	1	5	Low	23.05	2.55	23.45	-999~38.45	PAS S
Ban d5	5MHz	20525	QPS K	6	0	Low	21.89	2.55	22.29	-999~38.45	PAS S
Ban d5	5MHz	20525	16QA M	6	0	Low	21.9	2.55	22.3	-999~38.45	PAS S
Ban d5	5MHz	20625	QPS K	1	0	High	22.86	2.55	23.26	-999~38.45	PAS S
Ban d5	5MHz	20625	16QA M	1	0	High	22.7	2.55	23.1	-999~38.45	PAS S
Ban d5	5MHz	20625	QPS K	1	5	High	22.86	2.55	23.26	-999~38.45	PAS S
Ban d5	5MHz	20625	16QA M	1	5	High	22.7	2.55	23.1	-999~38.45	PAS S
Ban d5	5MHz	20625	QPS K	6	0	High	21.74	2.55	22.14	-999~38.45	PAS S
Ban d5	5MHz	20625	16QA M	6	0	High	21.8	2.55	22.2	-999~38.45	PAS S
Ban d5	10MHz	20450	QPS K	1	0	Low	22.96	2.55	23.36	-999~38.45	PAS S
Ban d5	10MHz	20450	16QA M	1	0	Low	22.94	2.55	23.34	-999~38.45	PAS S
Ban d5	10MHz	20450	QPS K	1	5	Low	23.28	2.55	23.68	-999~38.45	PAS S
Ban d5	10MHz	20450	16QA M	1	5	Low	23.03	2.55	23.43	-999~38.45	PAS S
Ban d5	10MHz	20450	QPS K	6	0	Low	22.03	2.55	22.43	-999~38.45	PAS S
Ban	10MHz	20450	16QA	6	0	Low	22.04	2.55	22.4	-999~38	PAS

d5			M						4	.45	S
Ban d5	10MHz	20525	QPS K	1	0	Low	23.14	2.55	23.5 4	-999~38 .45	PAS S
Ban d5	10MHz	20525	16QA M	1	0	Low	23.02	2.55	23.4 2	-999~38 .45	PAS S
Ban d5	10MHz	20525	QPS K	1	5	Low	23.35	2.55	23.7 5	-999~38 .45	PAS S
Ban d5	10MHz	20525	16QA M	1	5	Low	23.07	2.55	23.4 7	-999~38 .45	PAS S
Ban d5	10MHz	20525	QPS K	6	0	Low	22.16	2.55	22.5 6	-999~38 .45	PAS S
Ban d5	10MHz	20525	16QA M	6	0	Low	22.17	2.55	22.5 7	-999~38 .45	PAS S
Ban d5	10MHz	20600	QPS K	1	0	High	23.03	2.55	23.4 3	-999~38 .45	PAS S
Ban d5	10MHz	20600	16QA M	1	0	High	22.91	2.55	23.3 1	-999~38 .45	PAS S
Ban d5	10MHz	20600	QPS K	1	5	High	23.25	2.55	23.6 5	-999~38 .45	PAS S
Ban d5	10MHz	20600	16QA M	1	5	High	22.96	2.55	23.3 6	-999~38 .45	PAS S
Ban d5	10MHz	20600	QPS K	6	0	High	22.06	2.55	22.4 6	-999~38 .45	PAS S
Ban d5	10MHz	20600	16QA M	6	0	High	22.02	2.55	22.4 2	-999~38 .45	PAS S

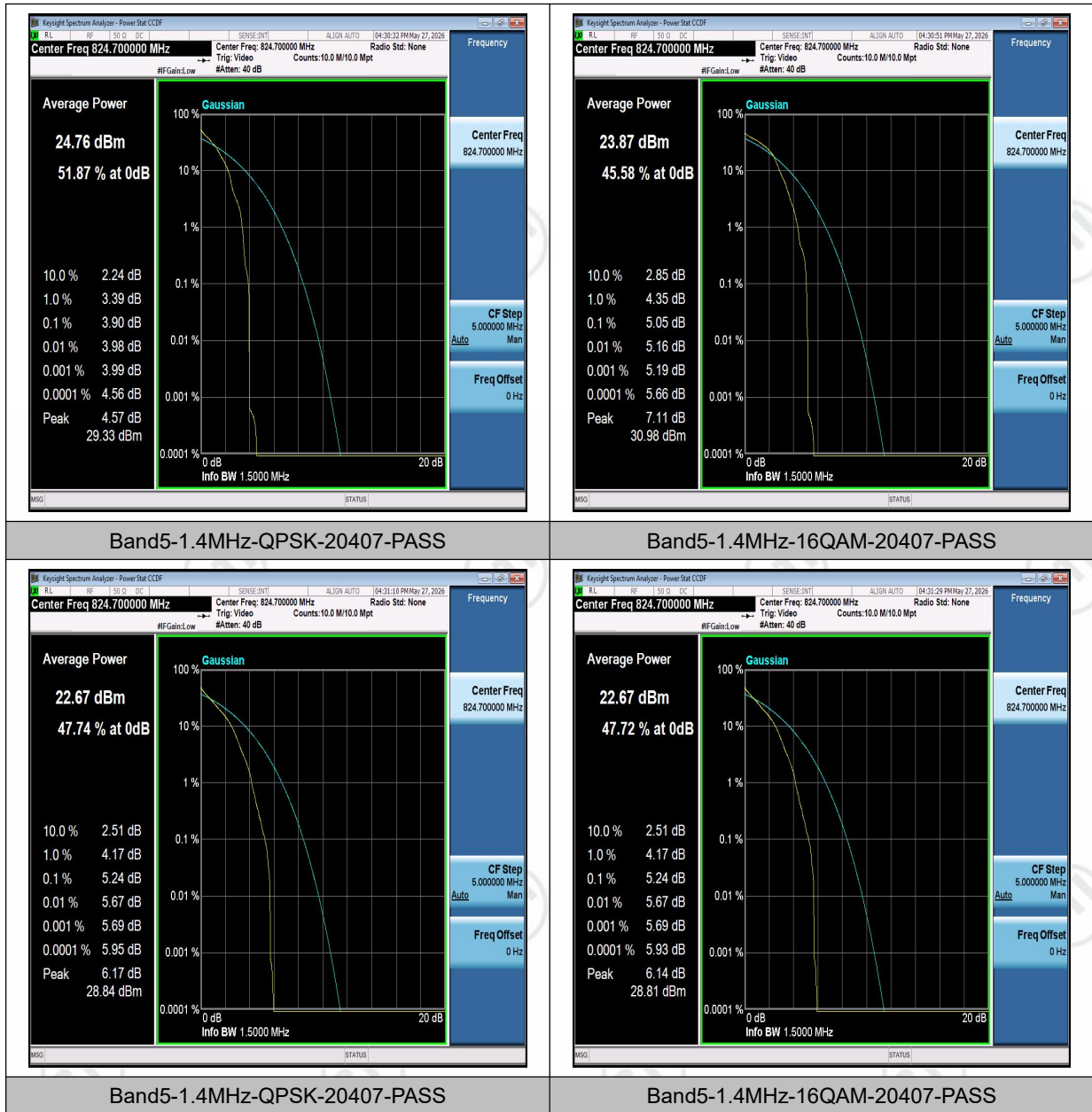
Appendix B: Peak-to-Average Ratio(CCDF) for M1

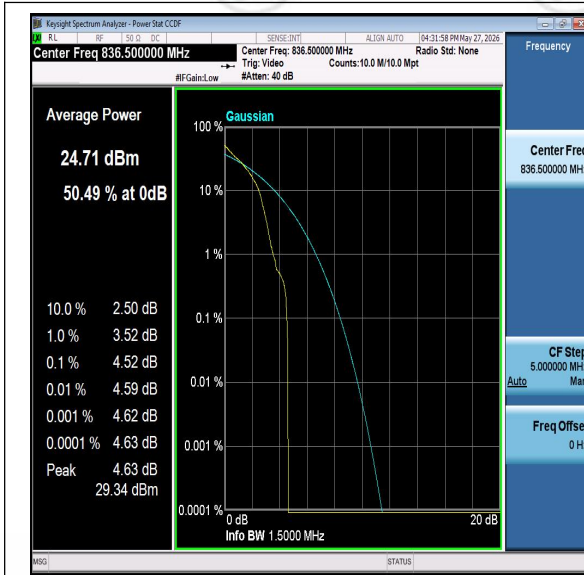
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	3.90	<=13	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	5.05	<=13	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	5.24	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	5.24	<=13	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	4.52	<=13	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	5.35	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	5.22	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	5.23	<=13	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	4.22	<=13	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	5.40	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	5.11	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	5.10	<=13	PASS
Band5	3MHz	20415	QPSK	1	0	Low	4.41	<=13	PASS
Band5	3MHz	20415	16QAM	1	0	Low	5.23	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	5.13	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	5.13	<=13	PASS
Band5	3MHz	20525	QPSK	1	0	Low	4.16	<=13	PASS
Band5	3MHz	20525	16QAM	1	0	Low	5.33	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	5.03	<=13	PASS
Band5	3MHz	20525	16QAM	6	0	Low	5.10	<=13	PASS
Band5	3MHz	20635	QPSK	1	0	High	4.11	<=13	PASS
Band5	3MHz	20635	16QAM	1	0	High	4.80	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	5.28	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	5.27	<=13	PASS
Band5	5MHz	20425	QPSK	1	0	Low	4.12	<=13	PASS
Band5	5MHz	20425	16QAM	1	0	Low	6.24	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	4.47	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	4.41	<=13	PASS
Band5	5MHz	20525	QPSK	1	0	Low	4.36	<=13	PASS
Band5	5MHz	20525	16QAM	1	0	Low	5.91	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	4.74	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	4.71	<=13	PASS
Band5	5MHz	20625	QPSK	1	0	High	4.70	<=13	PASS
Band5	5MHz	20625	16QAM	1	0	High	5.89	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	4.94	<=13	PASS

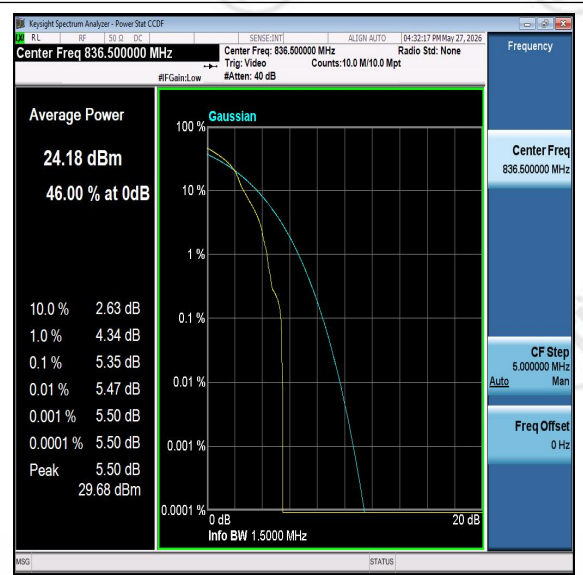
Band5	5MHz	20625	16QAM	6	0	High	4.91	<=13	PASS
Band5	10MHz	20450	QPSK	1	0	Low	4.52	<=13	PASS
Band5	10MHz	20450	16QAM	1	0	Low	6.43	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	4.60	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	4.63	<=13	PASS
Band5	10MHz	20525	QPSK	1	0	Low	4.30	<=13	PASS
Band5	10MHz	20525	16QAM	1	0	Low	6.00	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	5.05	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	5.08	<=13	PASS
Band5	10MHz	20600	QPSK	1	0	High	4.72	<=13	PASS
Band5	10MHz	20600	16QAM	1	0	High	6.44	<=13	PASS
Band5	10MHz	20600	QPSK	6	0	High	5.28	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	5.21	<=13	PASS

Test Graphs

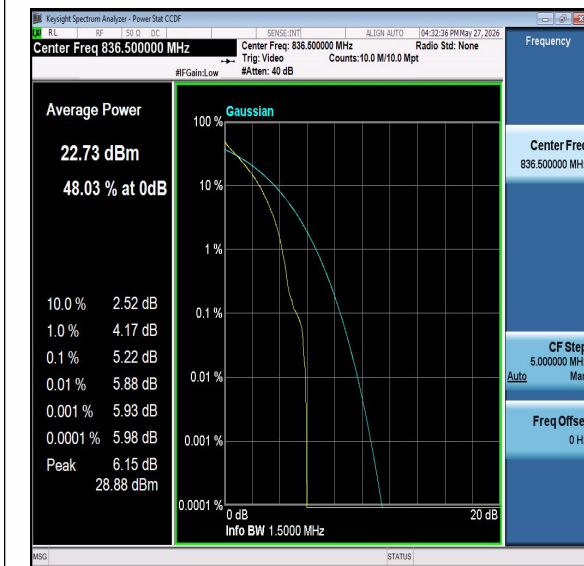




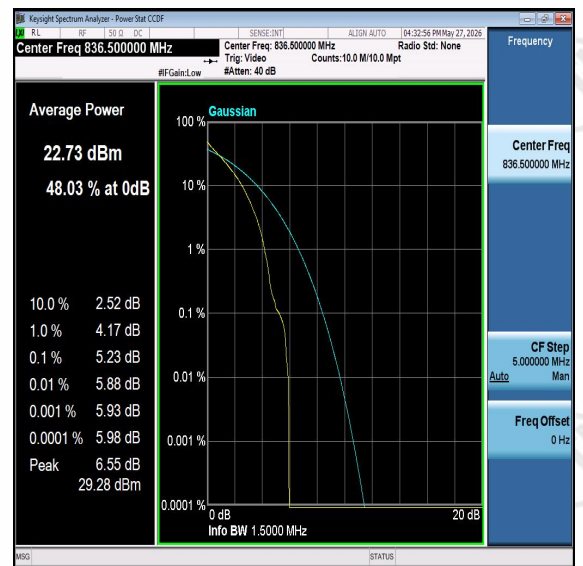
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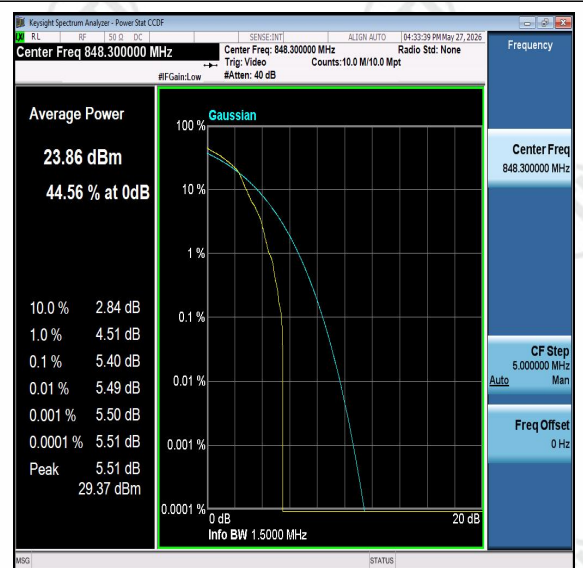
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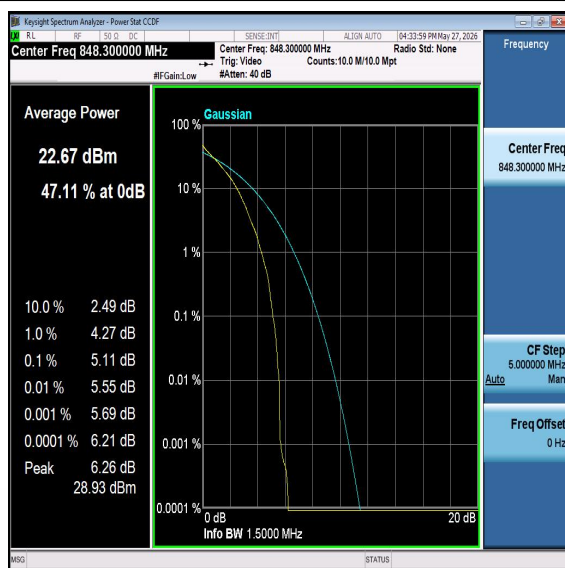
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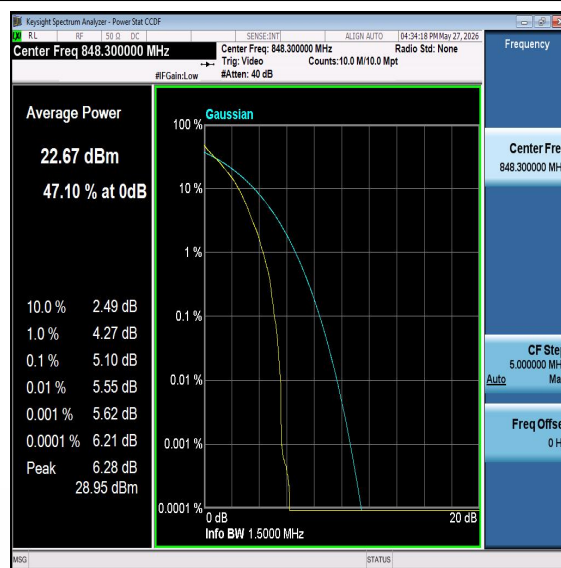
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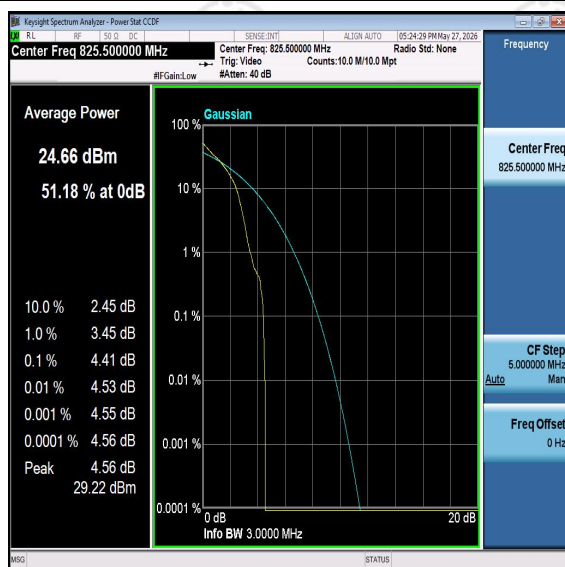
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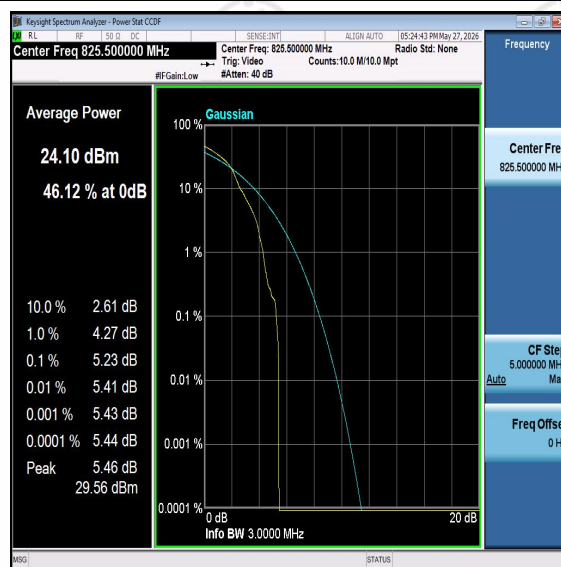
Band5-1.4MHz-16QAM-20643-PASS



Band5-1.4MHz-QPSK-20643-PASS



Band5-1.4MHz-16QAM-20643-PASS

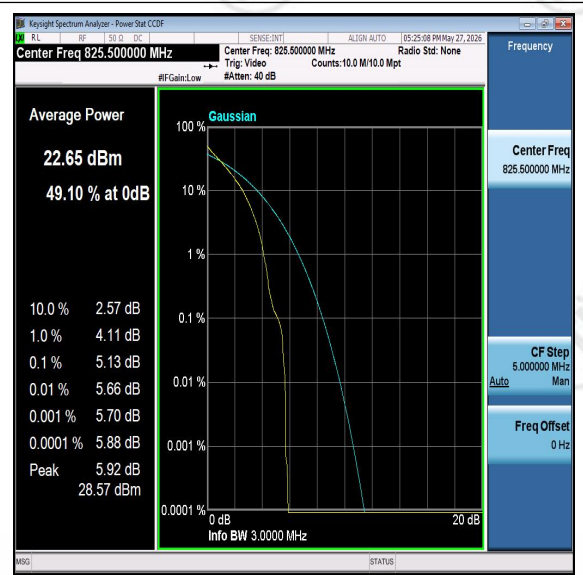


Band5-3MHz-QPSK-20415-PASS

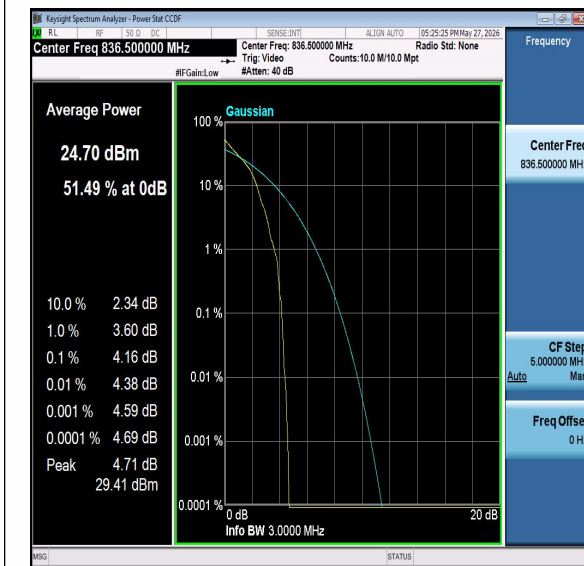
Band5-3MHz-16QAM-20415-PASS



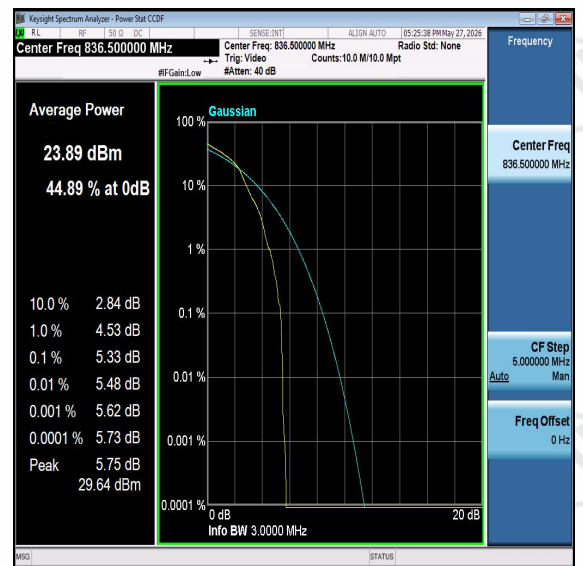
Band5-3MHz-QPSK-20415-PASS



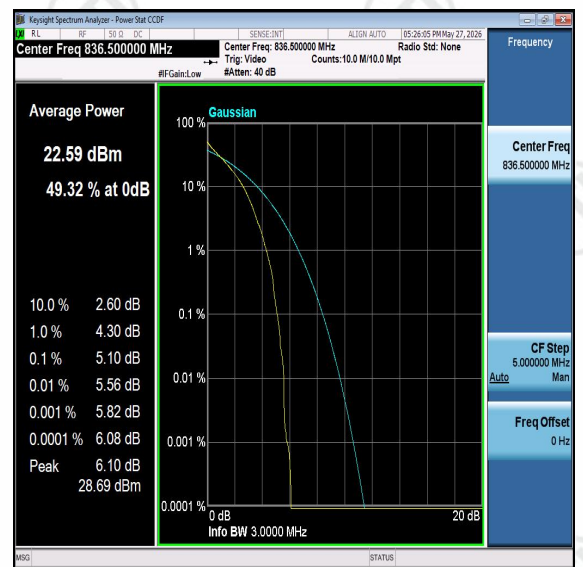
Band5-3MHz-16QAM-20415-PASS



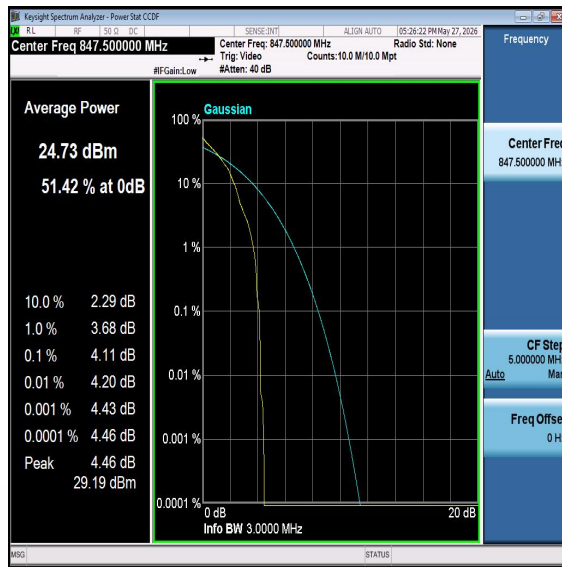
Band5-3MHz-QPSK-20525-PASS



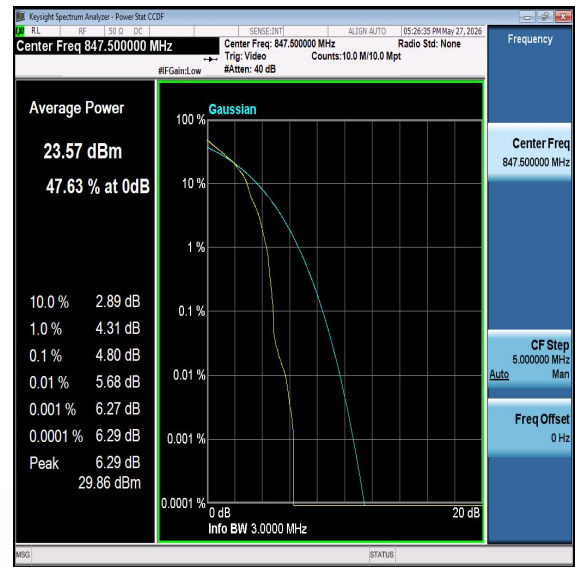
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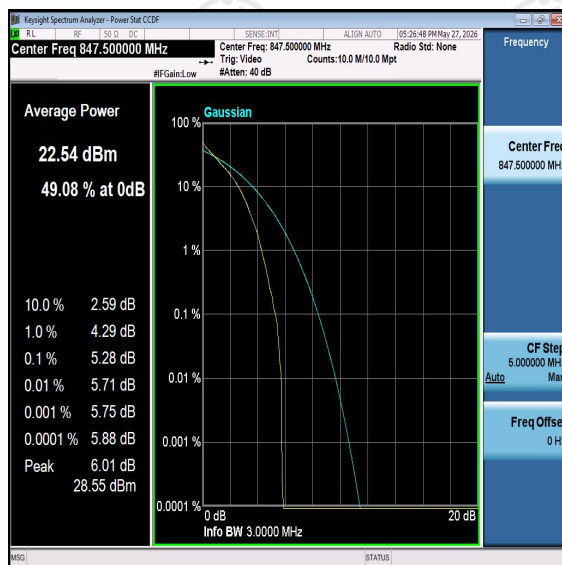
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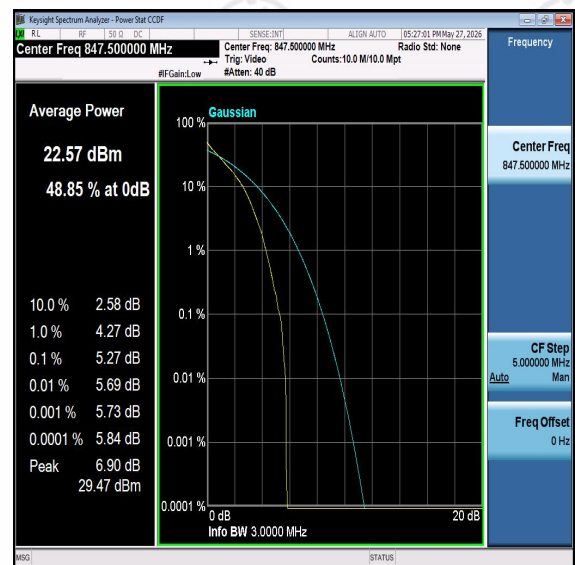
Band5-3MHz-16QAM-20525-PASS



Band5-3MHz-QPSK-20635-PASS



Band5-3MHz-16QAM-20635-PASS



Band5-3MHz-QPSK-20635-PASS

Band5-3MHz-16QAM-20635-PASS