

Appendix for LTE Band 12

Applicant: UCLOUDLINK (SINGAPORE) PTE.LTD

**Address: 80 ROBINSON ROAD #02-00
SINGAPORE(068898)**

Product Name: LTE Module

Model: GLMM24A01

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1. Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.72	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.46	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.66	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.63	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.60	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.63	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.51	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	24.53	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.48	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	24.43	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.83	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	24.80	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.71	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.71	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.25	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.08	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.17	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.02	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.19	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.02	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.09	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	24.06	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.07	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	24.07	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.12	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	24.10	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.10	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.94	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.08	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.96	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	25.01	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.98	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.61	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.59	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.57	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.60	PASS

Band12	1.4MHz	QPSK	23173	3RB#3	24.01	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	24.04	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.27	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.36	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.61	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.63	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.71	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.76	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.57	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.66	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	23.74	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.75	PASS
Band12	3MHz	16QAM	23025	8RB#4	23.75	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.75	PASS
Band12	3MHz	16QAM	23025	8RB#7	23.74	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.74	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.32	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.18	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.33	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.20	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.45	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.29	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.26	PASS
Band12	3MHz	16QAM	23095	8RB#0	23.29	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.29	PASS
Band12	3MHz	16QAM	23095	8RB#4	23.30	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.31	PASS
Band12	3MHz	16QAM	23095	8RB#7	23.32	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.32	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.30	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.48	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.18	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.20	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.08	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.09	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.98	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.43	PASS
Band12	3MHz	16QAM	23165	8RB#0	23.41	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.41	PASS
Band12	3MHz	16QAM	23165	8RB#4	23.42	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.42	PASS

Band12	3MHz	16QAM	23165	8RB#7	23.42	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.43	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.40	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.55	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.46	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.79	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.73	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.24	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.11	PASS
Band12	5MHz	QPSK	23035	12RB#0	24.03	PASS
Band12	5MHz	16QAM	23035	12RB#0	23.96	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.94	PASS
Band12	5MHz	16QAM	23035	12RB#6	23.91	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.30	PASS
Band12	5MHz	16QAM	23035	12RB#13	23.37	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.55	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.55	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.34	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.39	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.37	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.37	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.21	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.19	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.17	PASS
Band12	5MHz	16QAM	23095	12RB#0	23.24	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.25	PASS
Band12	5MHz	16QAM	23095	12RB#6	23.26	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.24	PASS
Band12	5MHz	16QAM	23095	12RB#13	23.20	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.38	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.40	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.53	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.28	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.25	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.25	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.22	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.20	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.73	PASS
Band12	5MHz	16QAM	23155	12RB#0	23.68	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.67	PASS
Band12	5MHz	16QAM	23155	12RB#6	23.67	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.48	PASS
Band12	5MHz	16QAM	23155	12RB#13	23.51	PASS

Band12	5MHz	QPSK	23155	25RB#0	23.44	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.49	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.46	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.50	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.30	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.71	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.40	PASS
Band12	10MHz	QPSK	23060	25RB#0	24.09	PASS
Band12	10MHz	16QAM	23060	25RB#0	24.18	PASS
Band12	10MHz	QPSK	23060	25RB#12	24.16	PASS
Band12	10MHz	16QAM	23060	25RB#12	24.13	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.85	PASS
Band12	10MHz	16QAM	23060	25RB#25	23.87	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.60	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.64	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.44	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.53	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.57	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.54	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.52	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.36	PASS
Band12	10MHz	16QAM	23095	25RB#0	23.37	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.35	PASS
Band12	10MHz	16QAM	23095	25RB#12	23.36	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.40	PASS
Band12	10MHz	16QAM	23095	25RB#25	23.33	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.38	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.75	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.40	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.68	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.37	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.29	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.14	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.56	PASS
Band12	10MHz	16QAM	23130	25RB#0	23.48	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.44	PASS
Band12	10MHz	16QAM	23130	25RB#12	23.40	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.47	PASS
Band12	10MHz	16QAM	23130	25RB#25	23.59	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.32	PASS

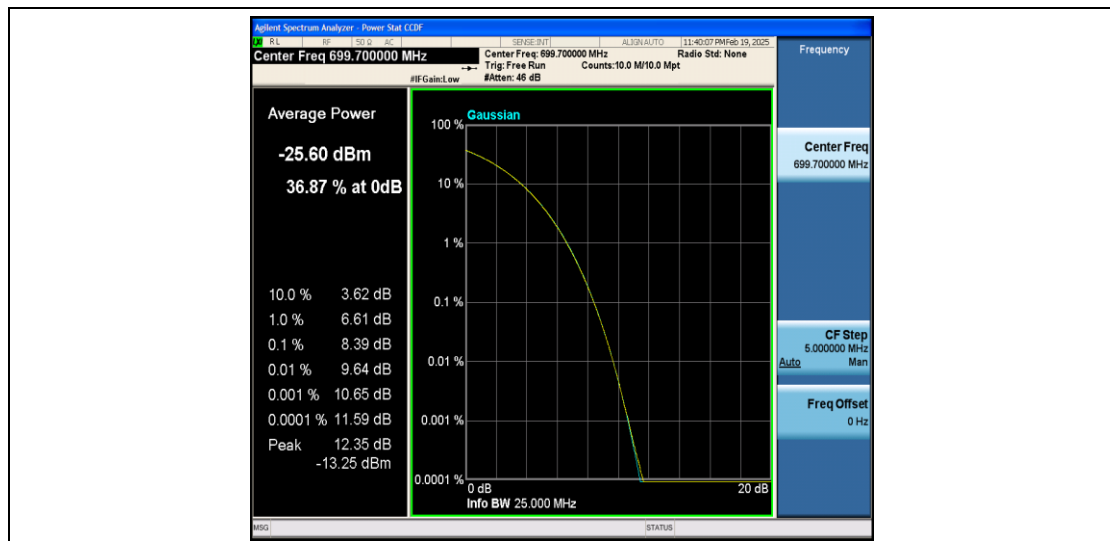
2. Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

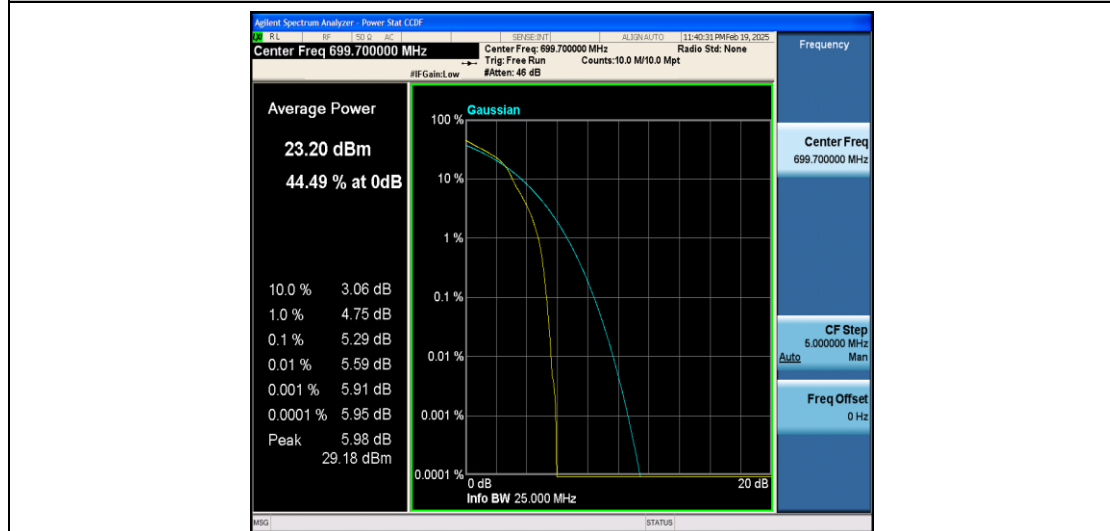
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	8.39	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.29	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.80	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.78	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.87	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.99	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.43	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.26	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.72	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	3.55	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.11	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.03	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.19	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.30	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.74	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.61	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.82	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.60	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.51	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.29	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.54	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.42	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.19	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.03	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.10	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	4.91	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.91	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.74	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.56	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.15	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.41	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.16	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.15	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.90	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.52	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.33	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	3.99	13	PASS

Band12	10MHz	16QAM	23060	1RB#0	4.88	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.09	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.13	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.87	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.68	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.15	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.20	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.99	13	PASS

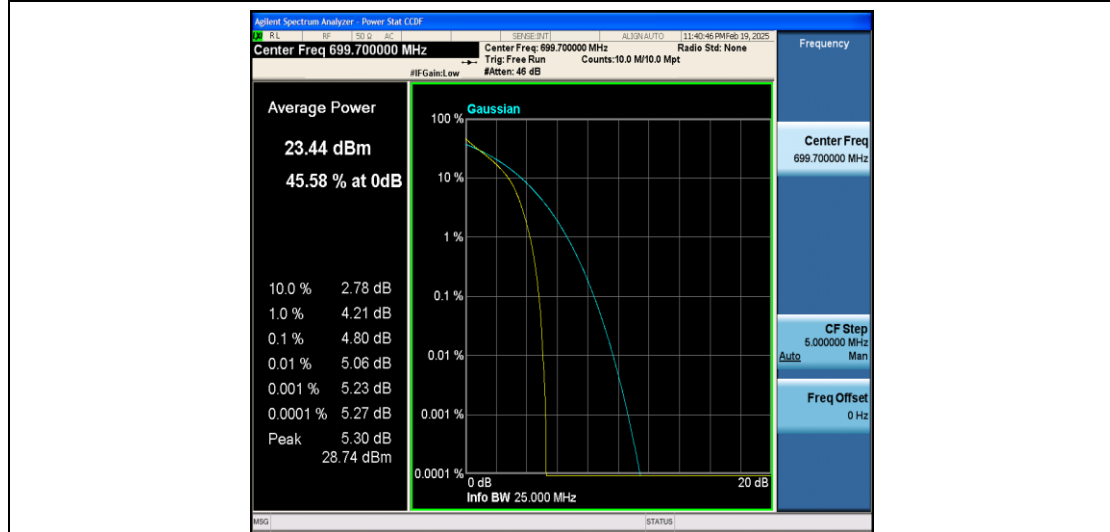
Test Graphs



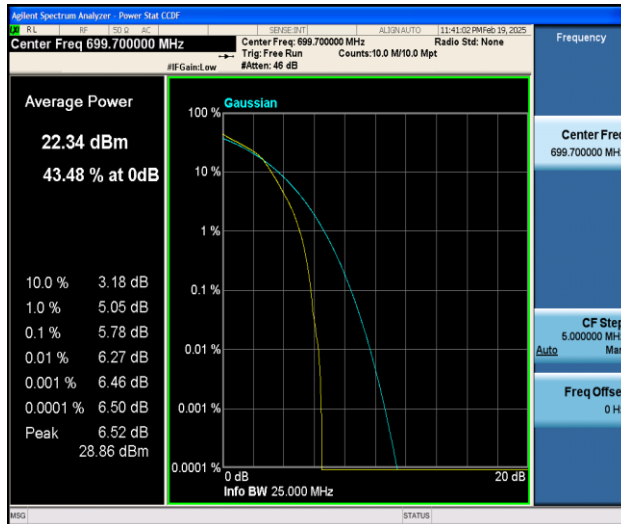
Band12-1.4MHz-QPSK-23017-1RB#0-PASS



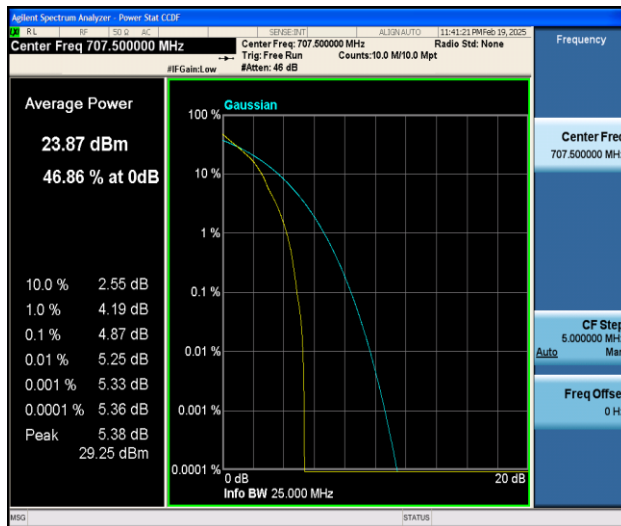
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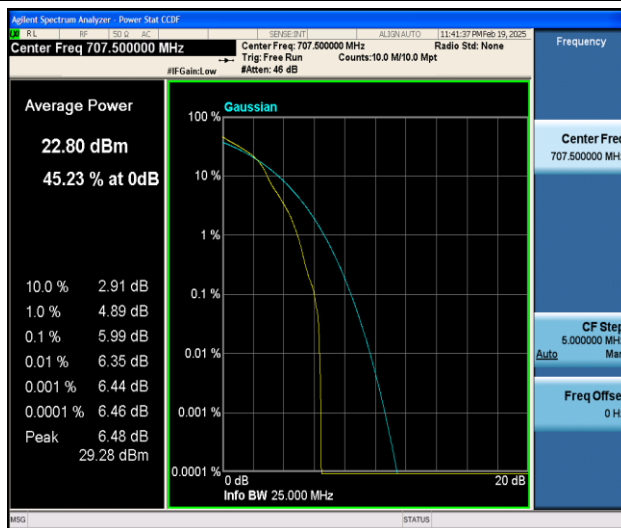
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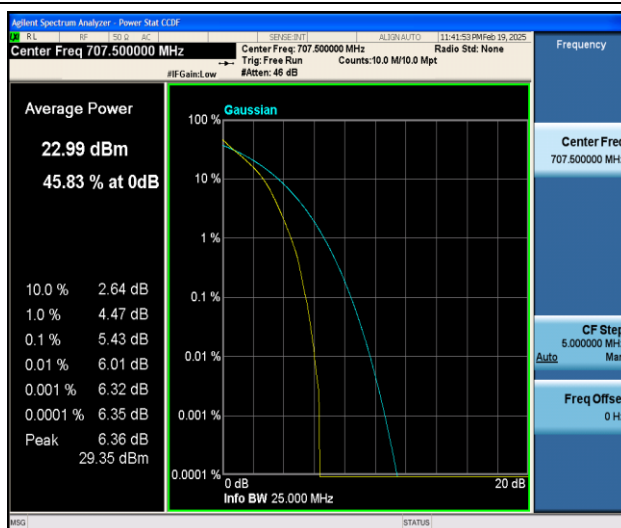
Band12-1.4MHz-16QAM-23017-6RB#0-PASS



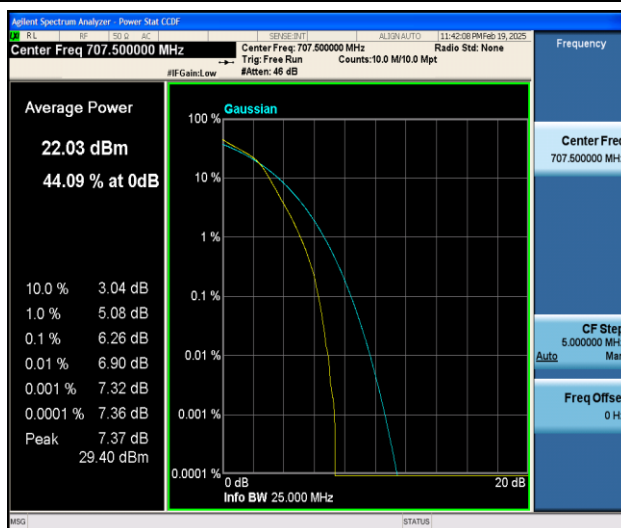
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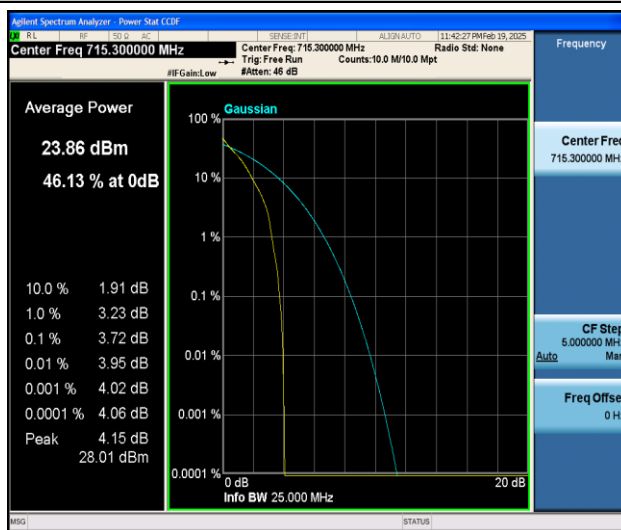
Band12-1.4MHz-16QAM-23095-1RB#0-PASS



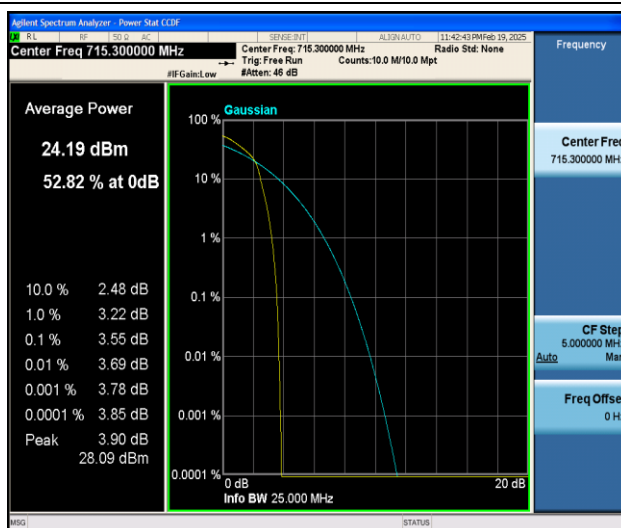
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



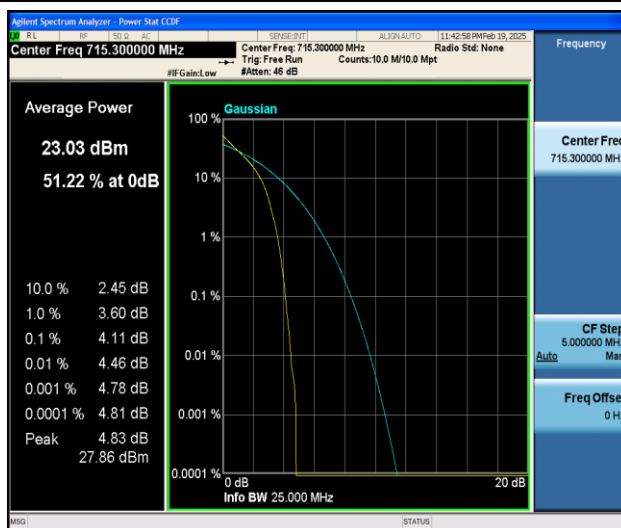
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



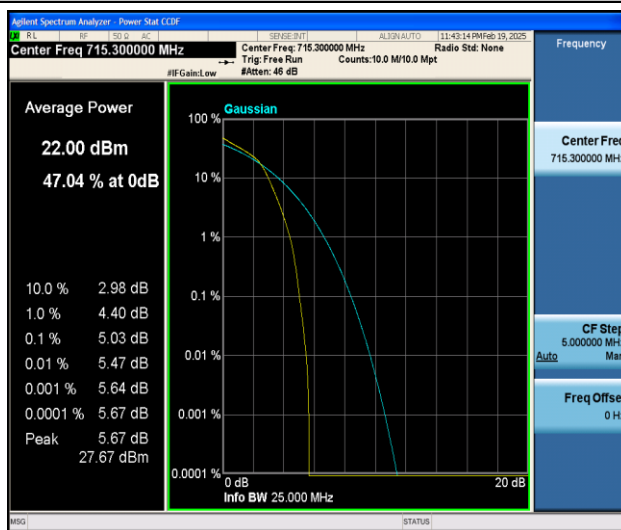
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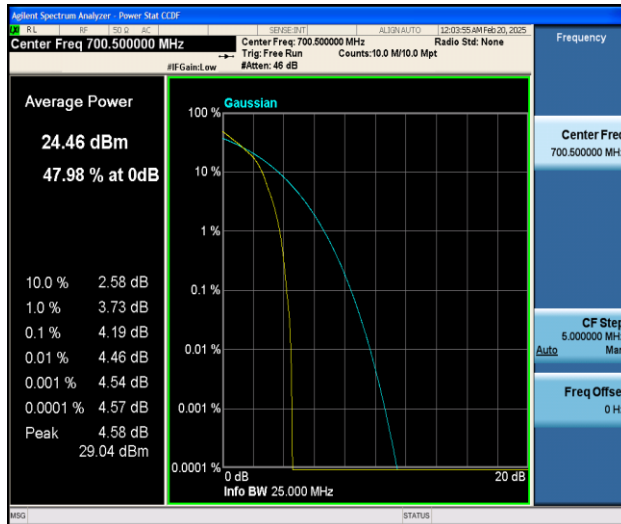
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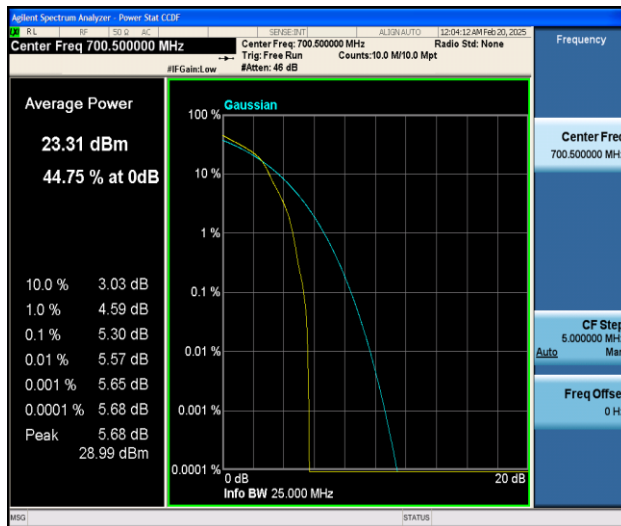
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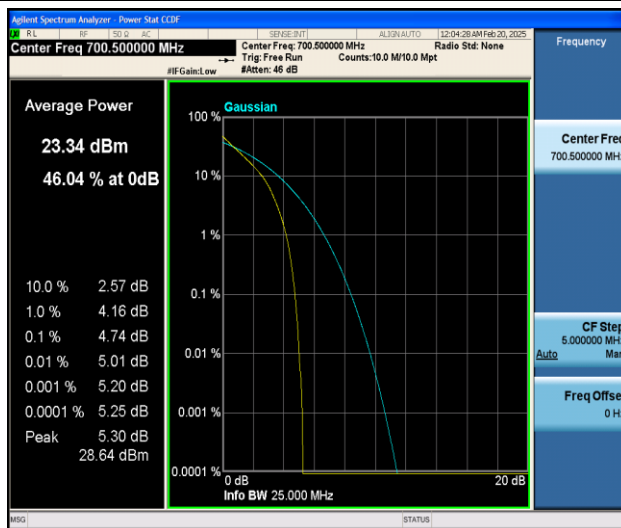
Band12-1.4MHz-16QAM-23173-6RB#0-PASS



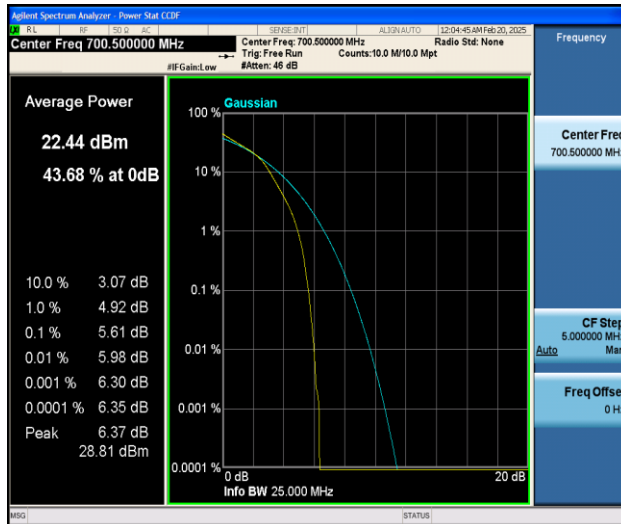
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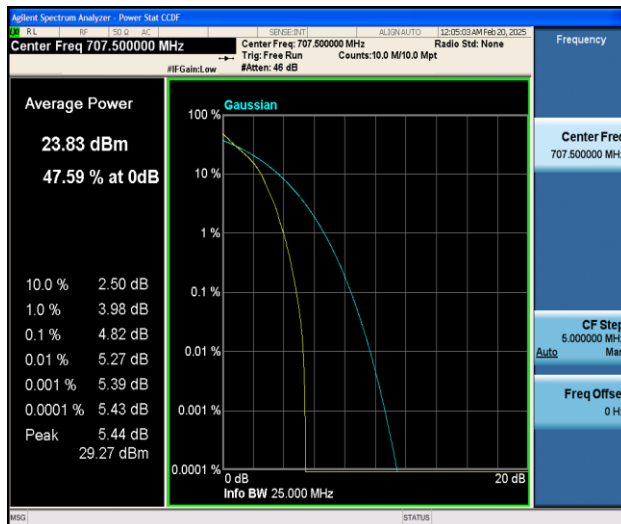
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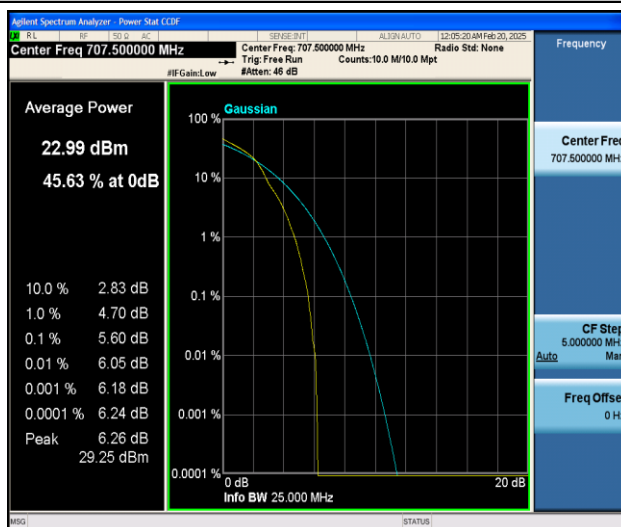
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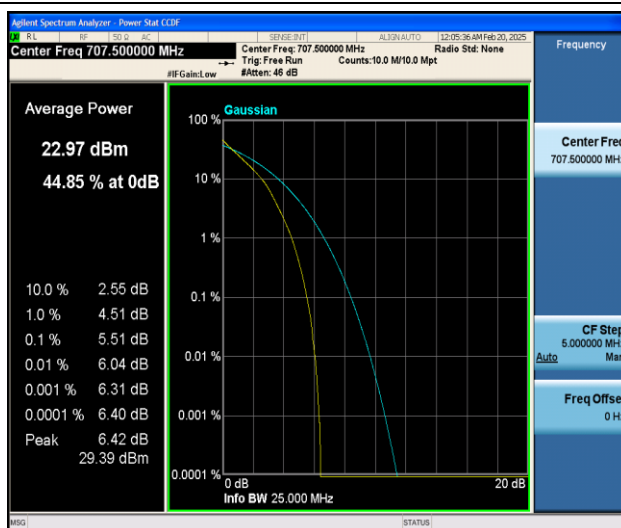
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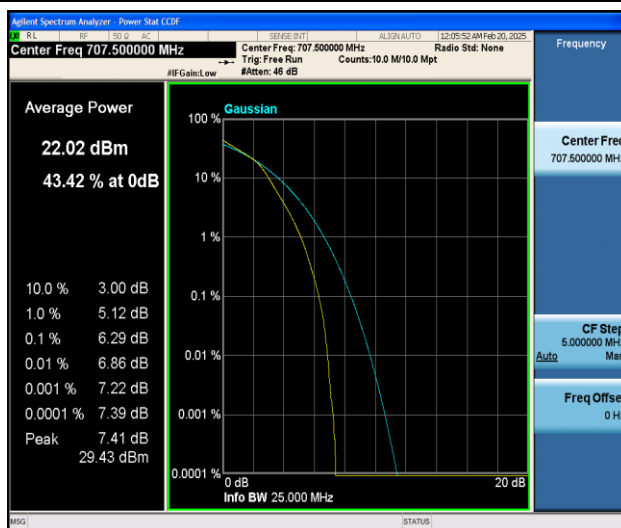
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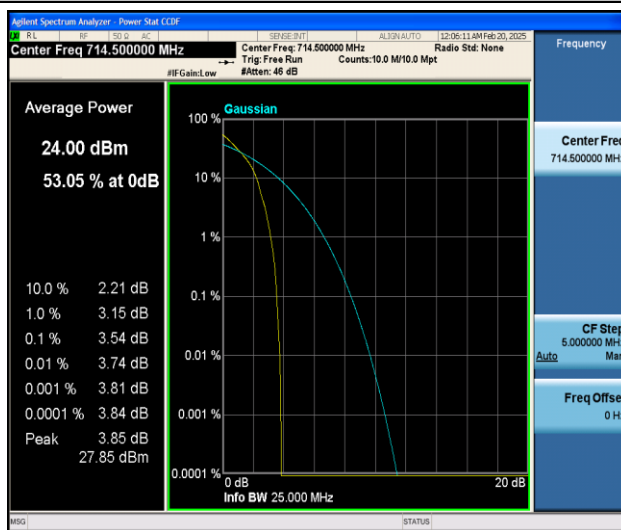
Band12-3MHz-16QAM-23095-1RB#0-PASS



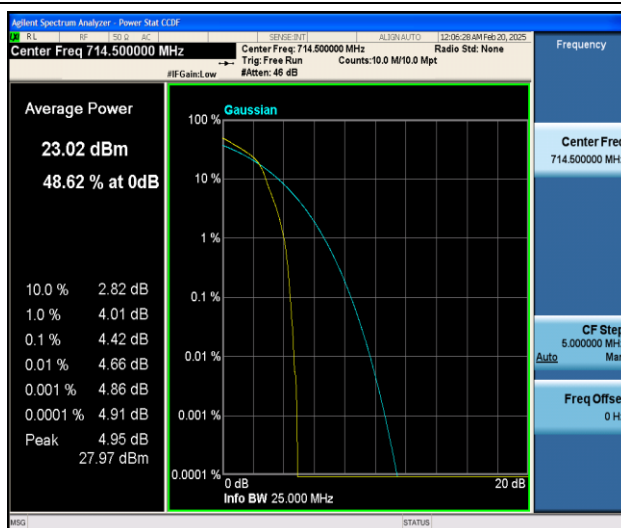
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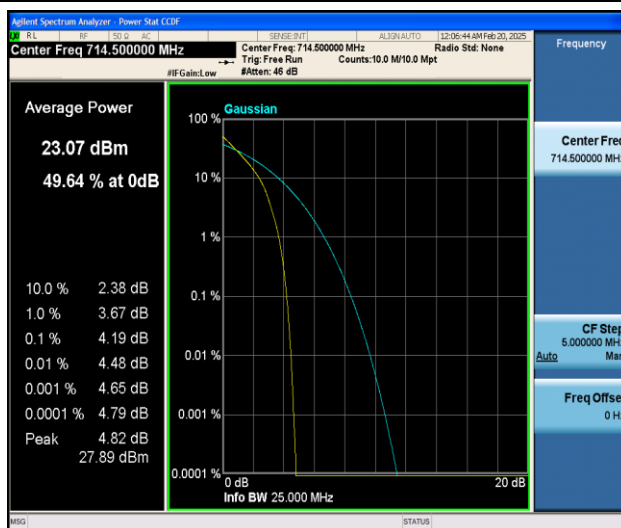
Band12-3MHz-16QAM-23095-15RB#0-PASS



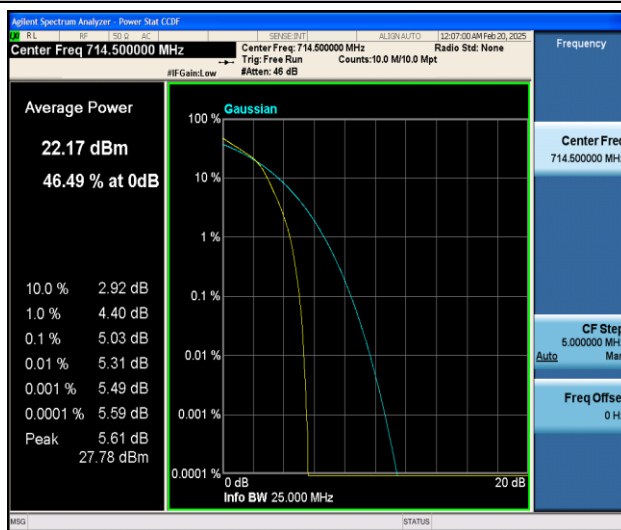
Band12-3MHz-QPSK-23165-1RB#0-PASS



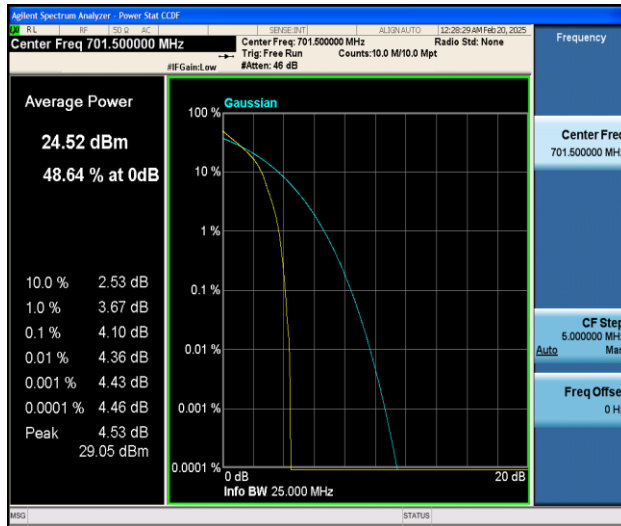
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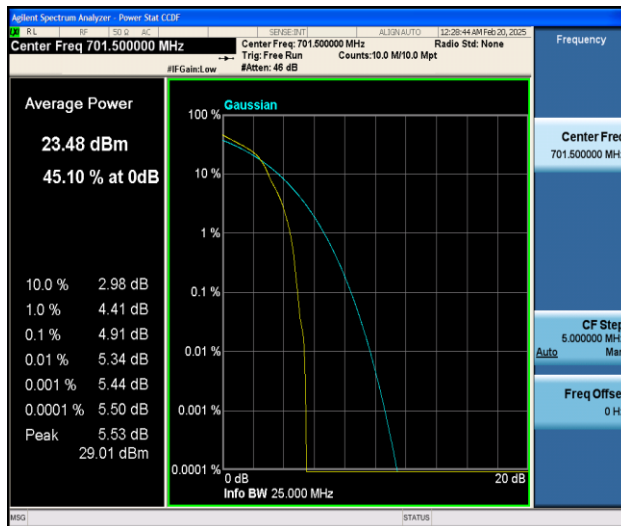
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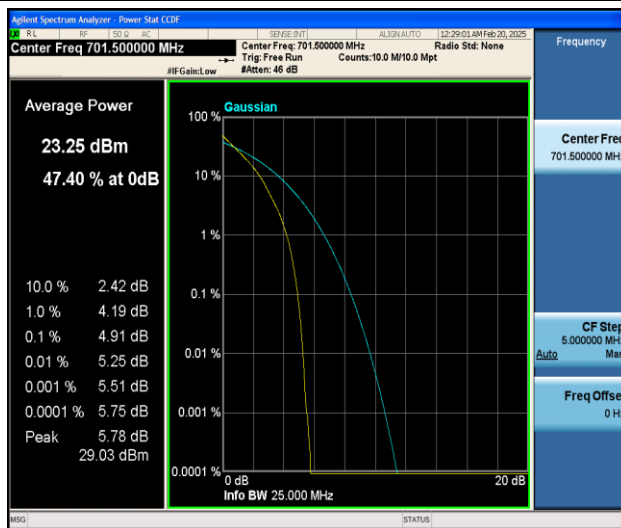
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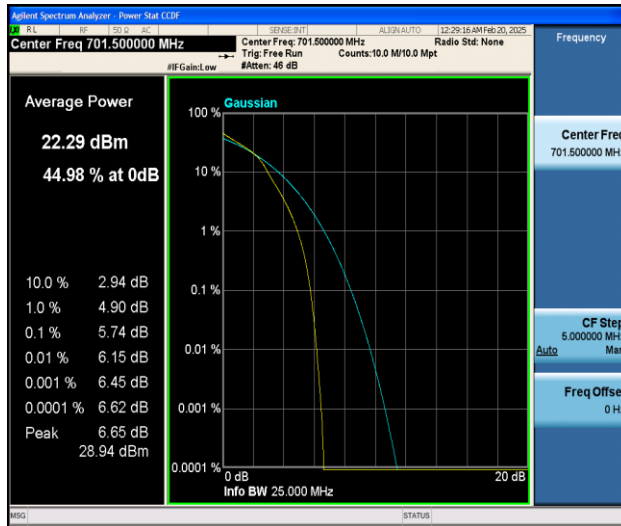
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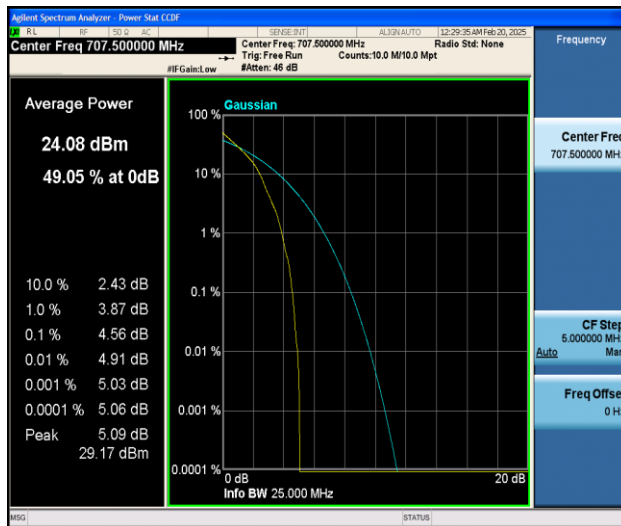
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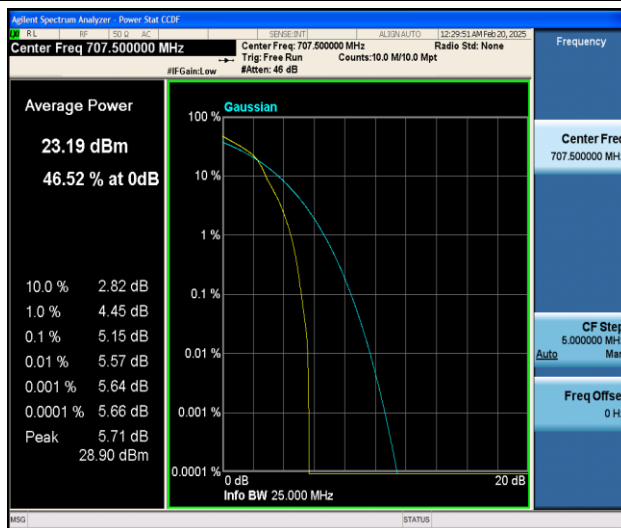
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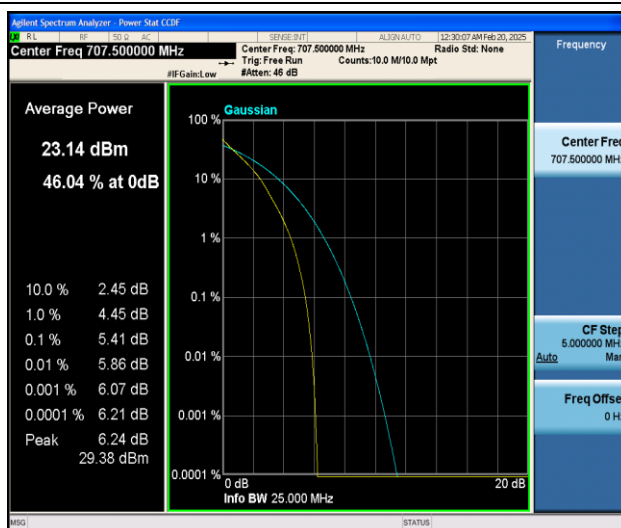
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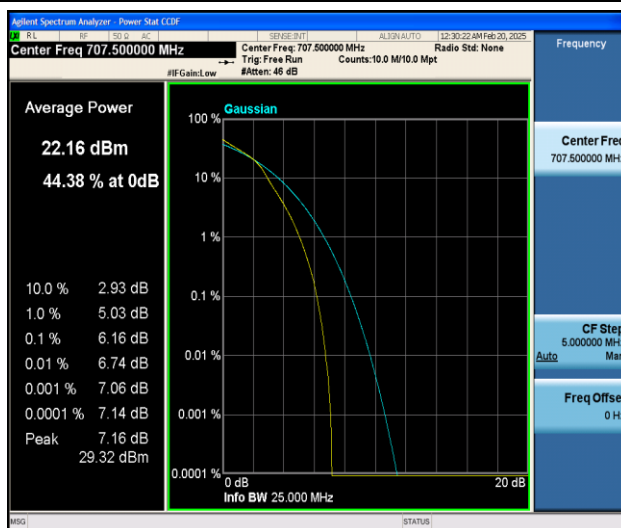
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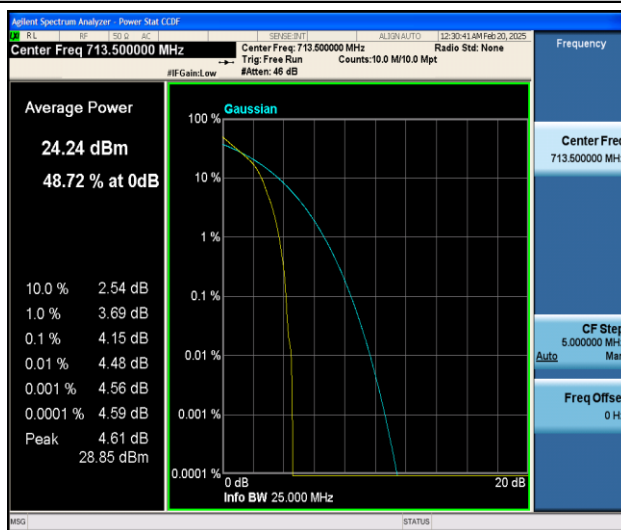
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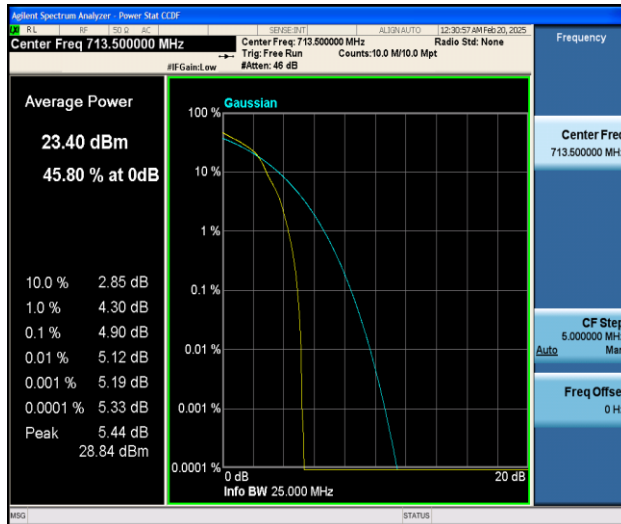
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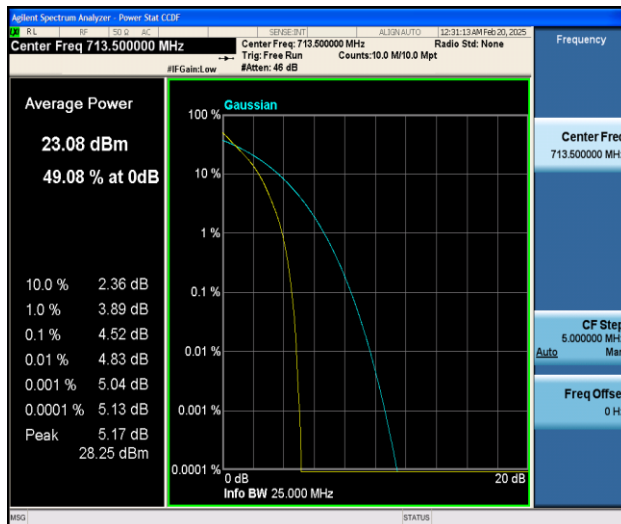
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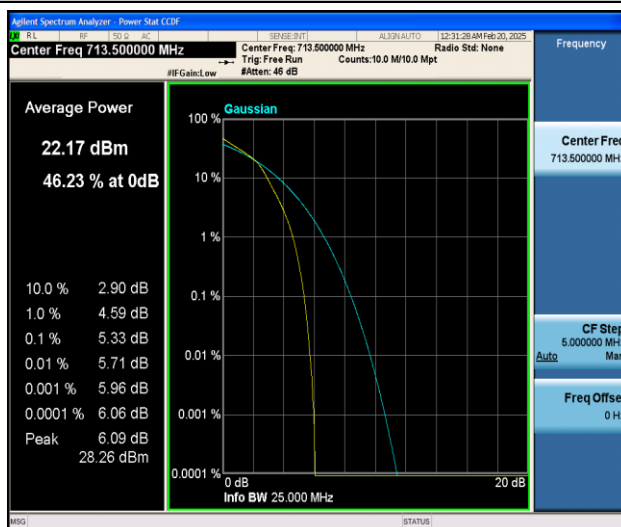
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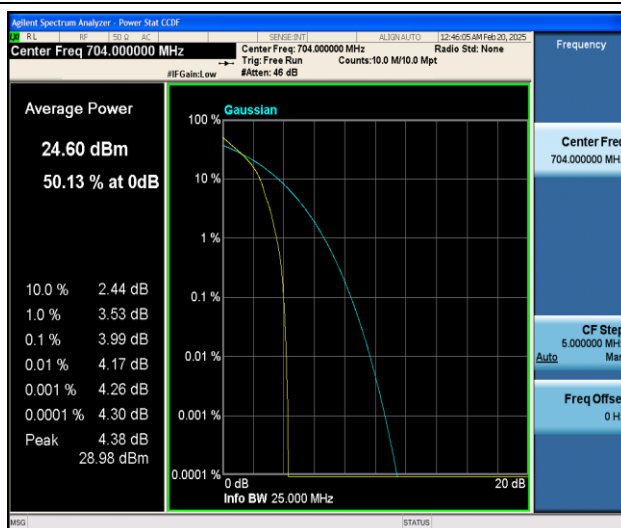
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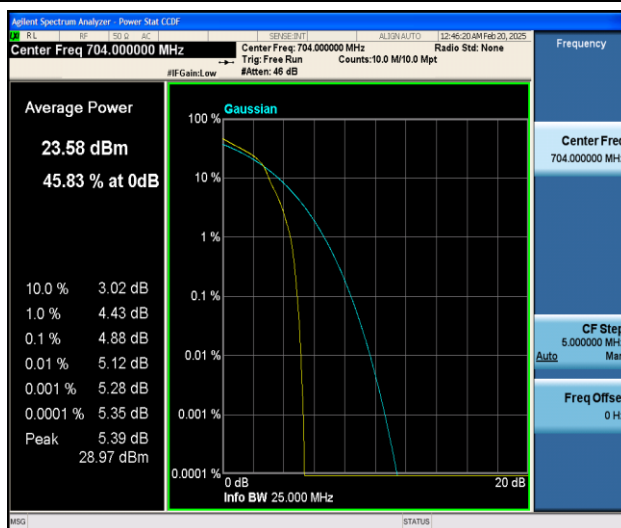
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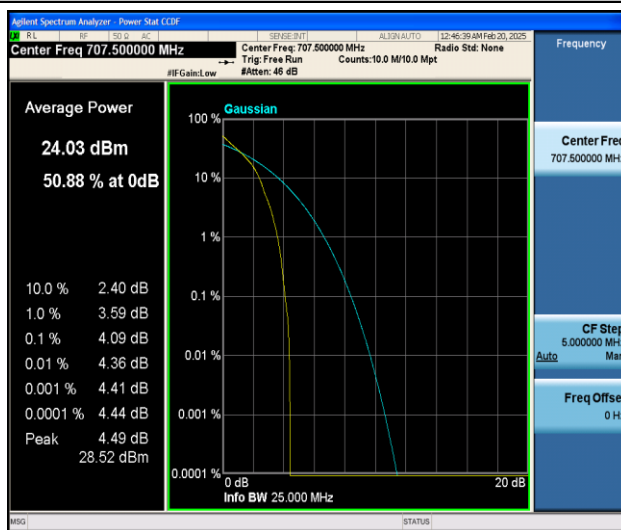
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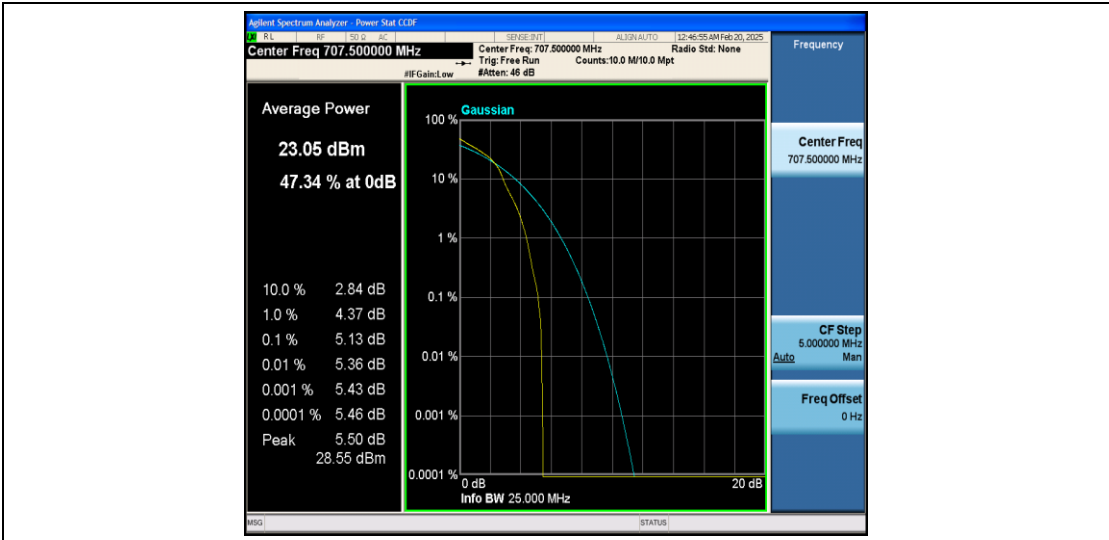
Band12-10MHz-QPSK-23060-1RB#0-PASS



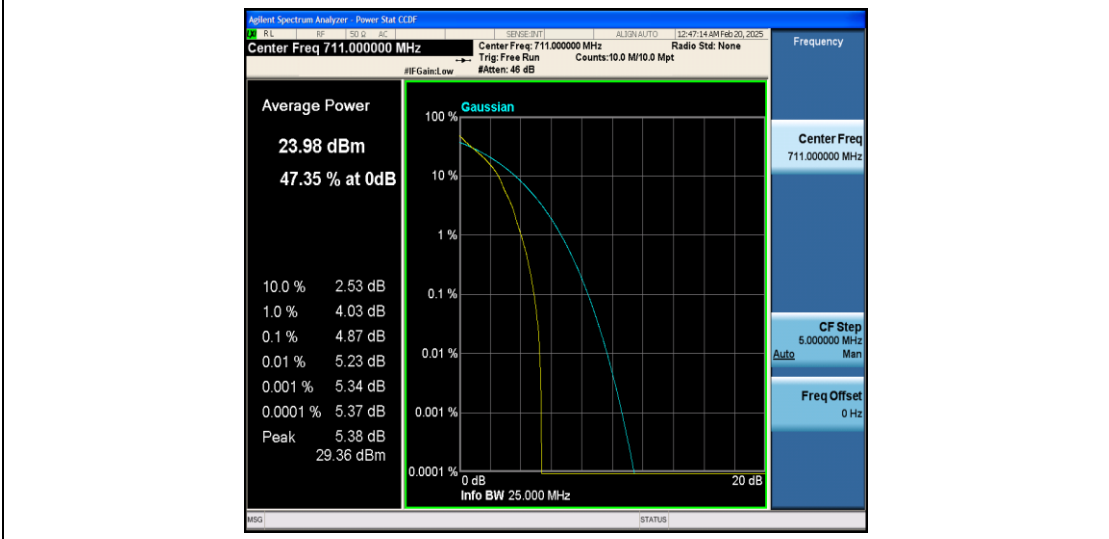
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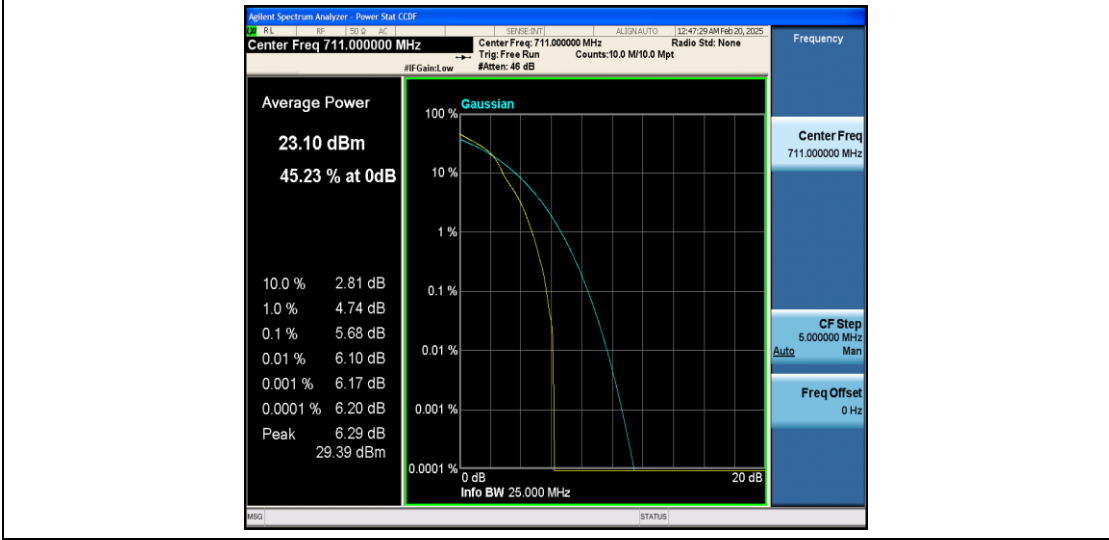
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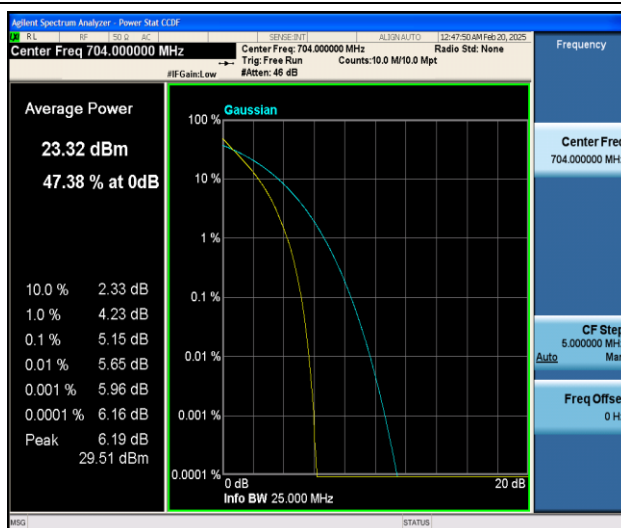
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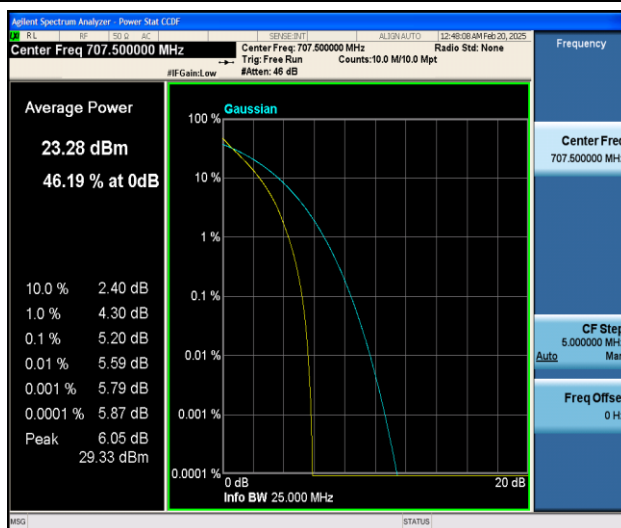
Band12-10MHz-QPSK-23130-1RB#0-PASS



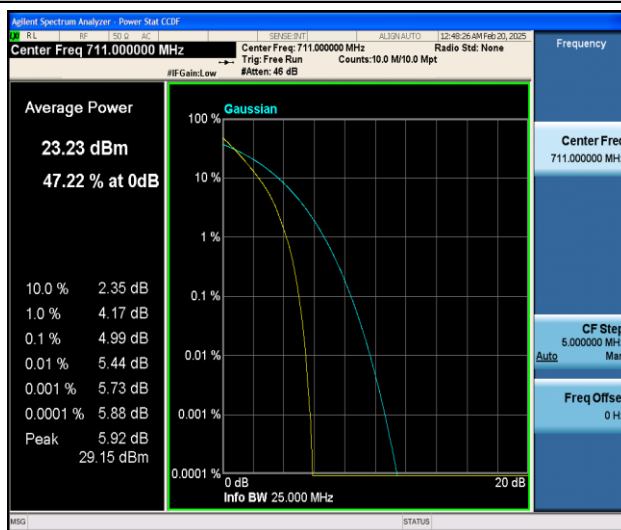
Band12-10MHz-16QAM-23130-1RB#0-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS



Band12-10MHz-QPSK-23095-50RB#0-PASS



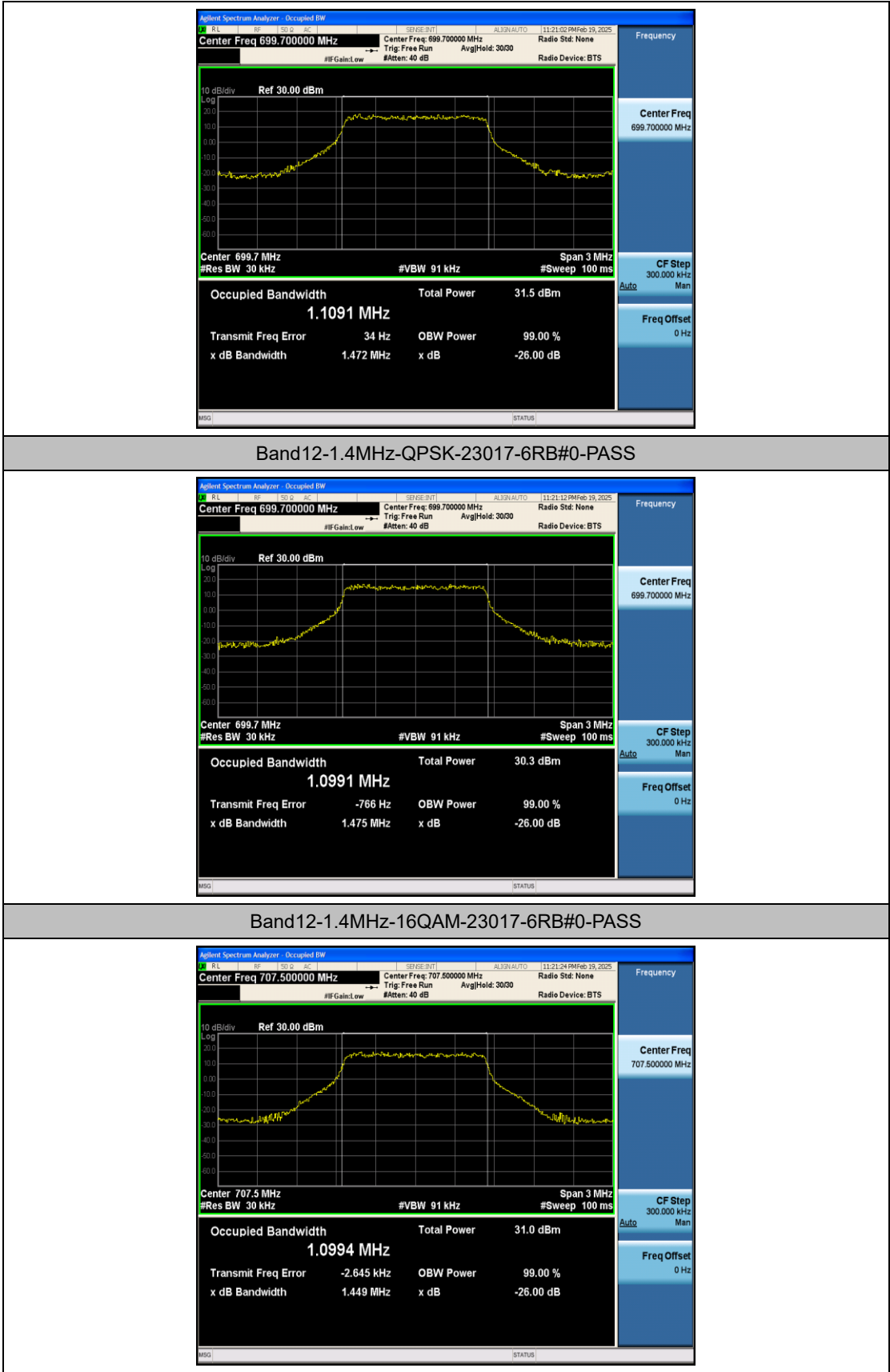
Band12-10MHz-QPSK-23130-50RB#0-PASS

3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

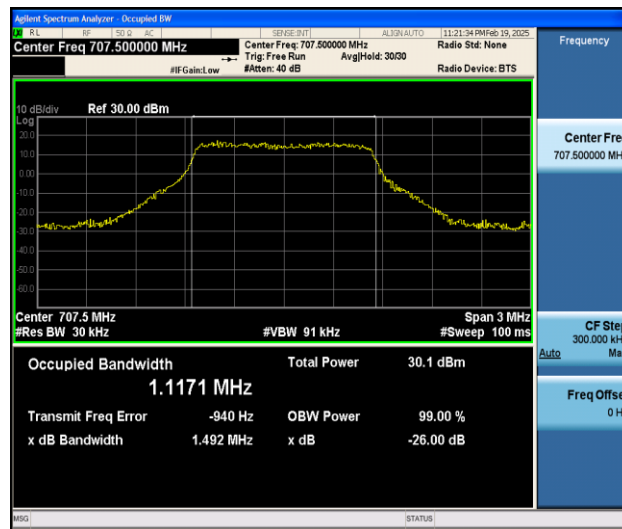
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.1091	1.472	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0991	1.475	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0994	1.449	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1171	1.492	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.1068	1.463	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1067	1.489	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7082	3.130	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6921	3.146	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7037	3.130	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7032	3.197	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7067	3.205	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7011	3.139	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4958	5.088	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4918	5.068	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4975	5.113	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5084	5.107	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5042	5.122	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5180	5.140	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9626	9.872	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9959	9.933	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9764	9.859	PASS

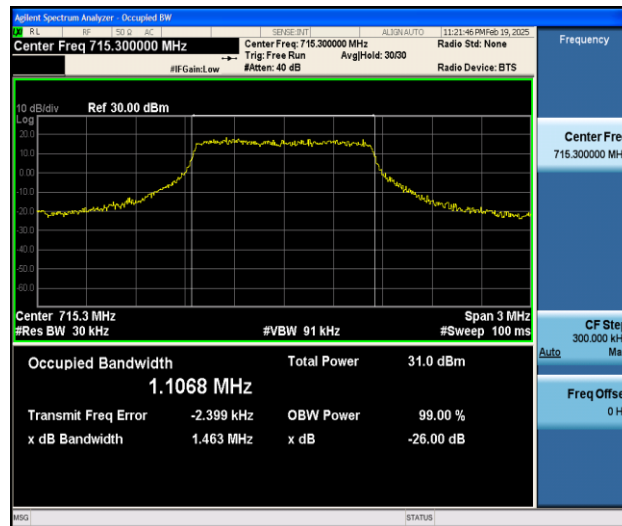
Test Graphs



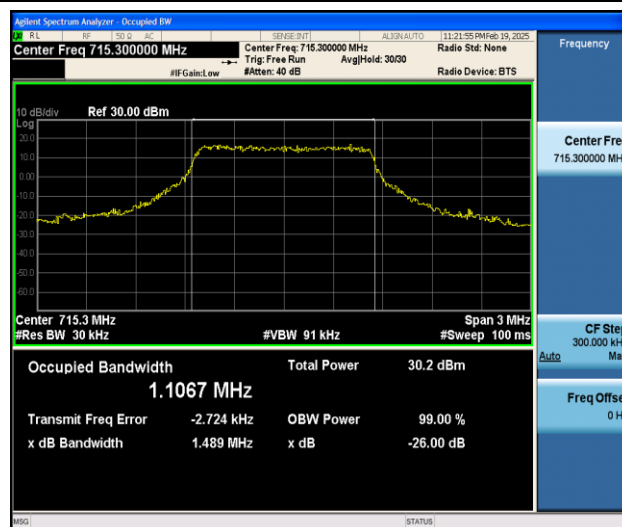
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



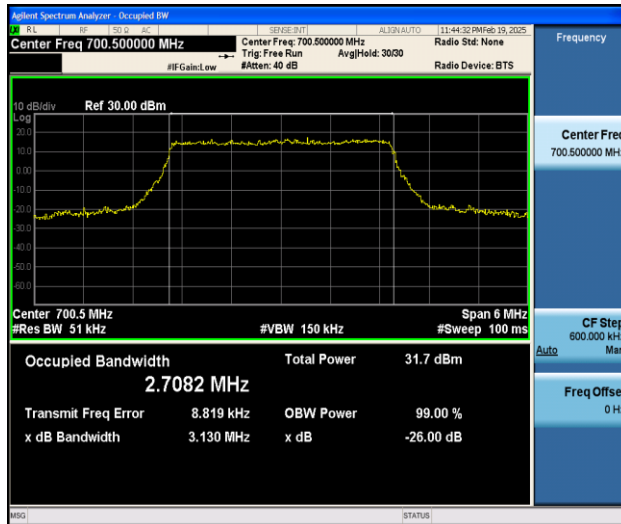
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



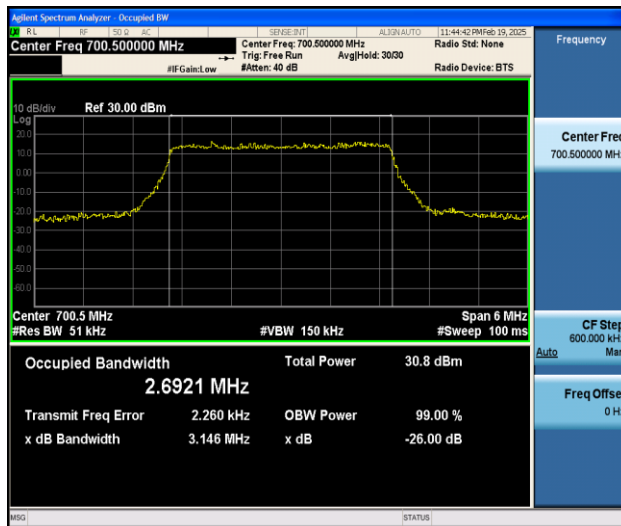
Band12-1.4MHz-QPSK-23173-6RB#0-PASS



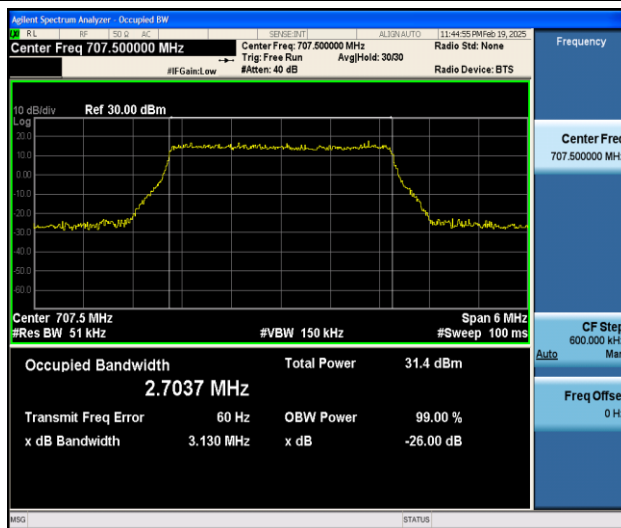
Band12-1.4MHz-16QAM-23173-6RB#0-PASS



Band12-3MHz-QPSK-23025-15RB#0-PASS



Band12-3MHz-16QAM-23025-15RB#0-PASS



Band12-3MHz-QPSK-23095-15RB#0-PASS