

FCC Appendix RF Test Data for LTE band 12

Company : HK EKO ELECTRONICS LIMITED

EUT : Security Camera

Model Number : GP01

Report No. : CTA26071602004

FCC ID : 2BR3K-SECCAM-GP01

Reviewed By : Eric Wang

Appendix A: Conducted power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.28	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.39	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.25	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.48	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.43	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.26	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.43	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.69	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.61	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.78	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.48	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.52	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.61	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.66	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.12	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.87	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.21	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.28	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.83	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.20	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.42	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.44	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.28	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.29	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	23.43	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	23.18	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.39	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.62	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.66	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.80	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.42	PASS

Band12	1.4MHz	16QAM	23095	3RB#1	21.46	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.58	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.72	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.80	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.46	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.07	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.37	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.31	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.95	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.32	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.31	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.97	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.19	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.40	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.42	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.84	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.11	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.29	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.56	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.92	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.28	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.29	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.76	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.65	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.25	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.65	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.71	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.01	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.07	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.35	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.67	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.66	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.35	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.59	PASS
Band12	3MHz	16QAM	23025	8RB#0	22.64	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.64	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.10	PASS

Band12	3MHz	16QAM	23025	15RB#0	22.22	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.07	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.71	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.99	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.34	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.44	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.90	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.66	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.30	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.73	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.86	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.20	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.20	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.48	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.71	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.83	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.63	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.94	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.44	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.47	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.40	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.98	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.64	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.69	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.72	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.39	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.31	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.26	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.87	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.84	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.02	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.04	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.55	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.60	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.64	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.14	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.82	PASS

Band12	5MHz	16QAM	23035	1RB#12	22.67	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.12	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.68	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.68	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.64	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.07	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.74	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.02	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.04	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.56	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.56	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.38	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.88	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.85	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.16	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.22	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.73	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.75	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.79	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.27	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.71	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.69	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.35	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.74	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.87	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.89	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.34	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.41	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.76	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.59	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.60	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.60	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.67	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.30	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.06	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.34	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.35	PASS

Band12	10MHz	QPSK	23130	25RB#0	22.60	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.60	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.27	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.92	PASS

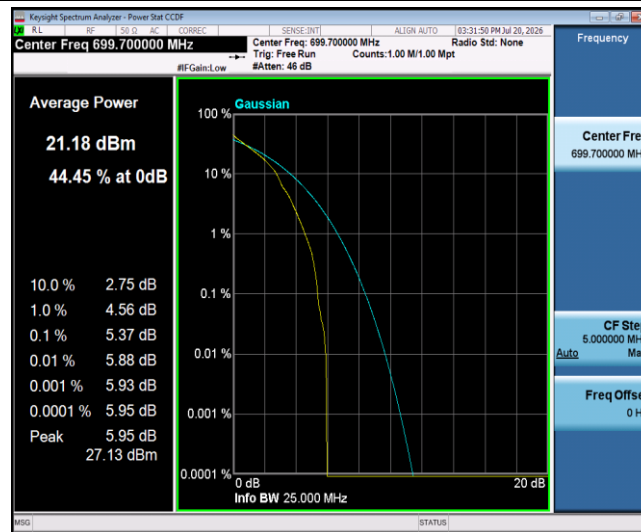
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

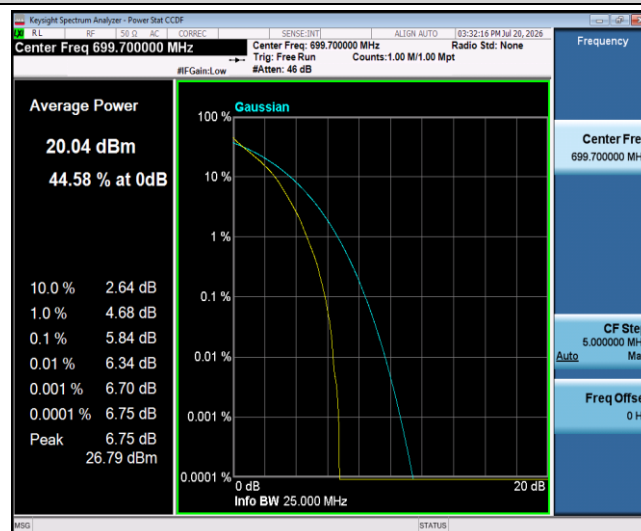
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.37	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.84	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	6.22	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	6.26	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	5.70	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	6.03	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	6.18	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.39	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.87	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	7.02	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	6.24	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.81	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.25	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.79	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	6.28	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	6.36	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.20	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.89	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	6.14	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.49	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.99	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	7.09	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	6.32	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.59	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.11	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	6.04	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	6.31	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	6.26	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.07	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.88	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.99	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.61	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.83	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.88	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.98	13	PASS

Band12	5MHz	16QAM	23155	25RB#0	6.47	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	5.38	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	6.37	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	6.07	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.18	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	6.02	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.89	13	PASS

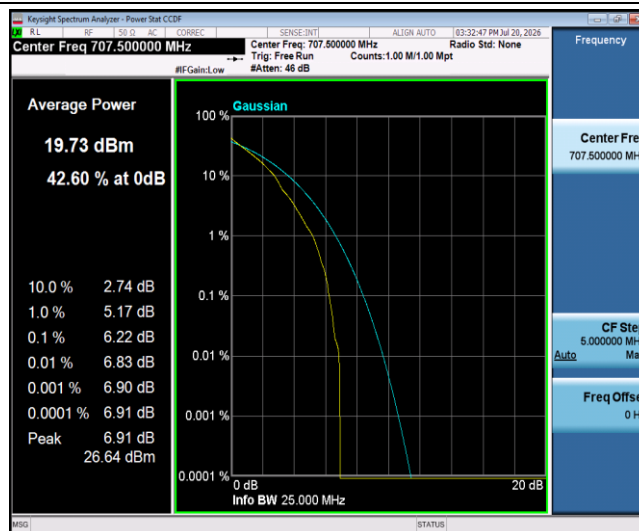
Test Graphs



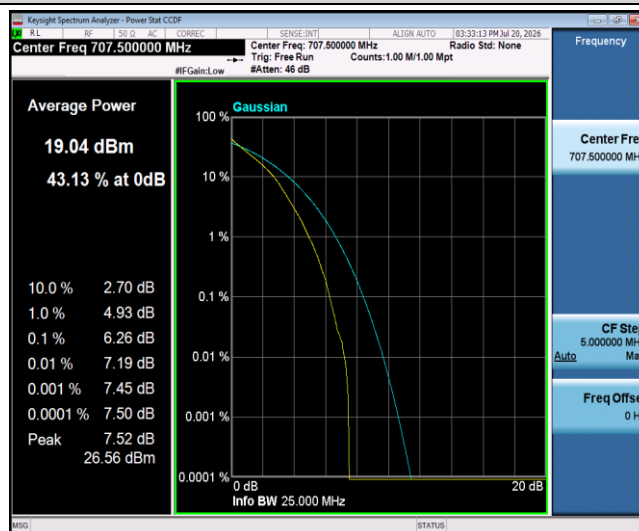
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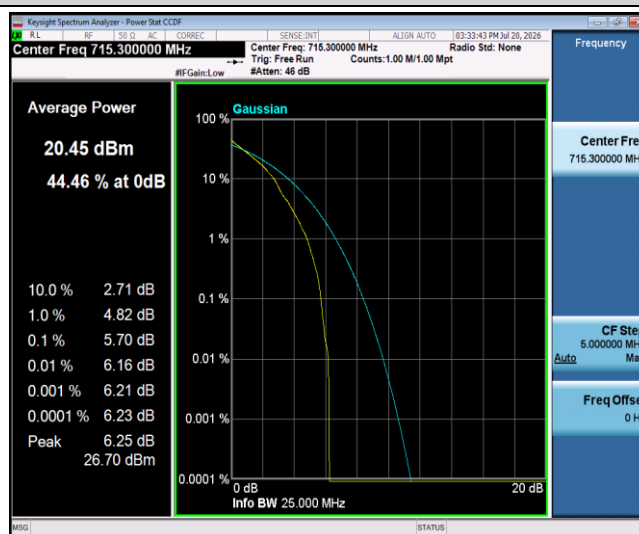
Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23095-1RB#0



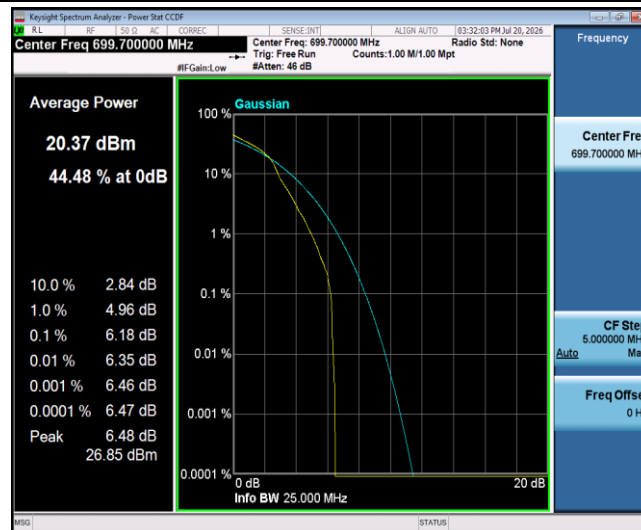
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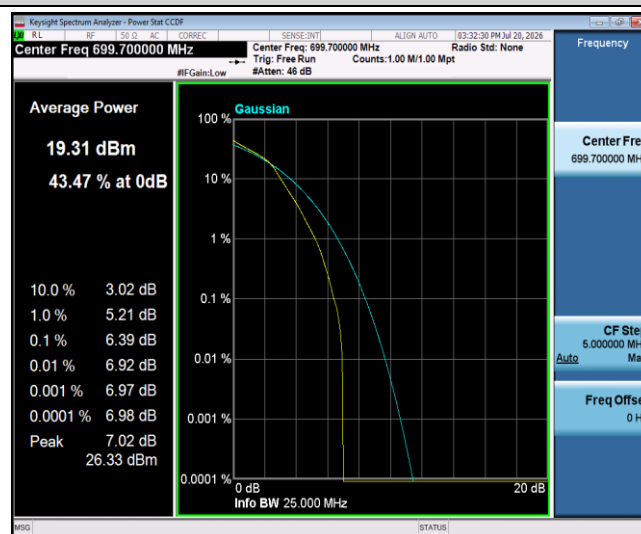
Band12-1.4MHz-QPSK-23173-1RB#0



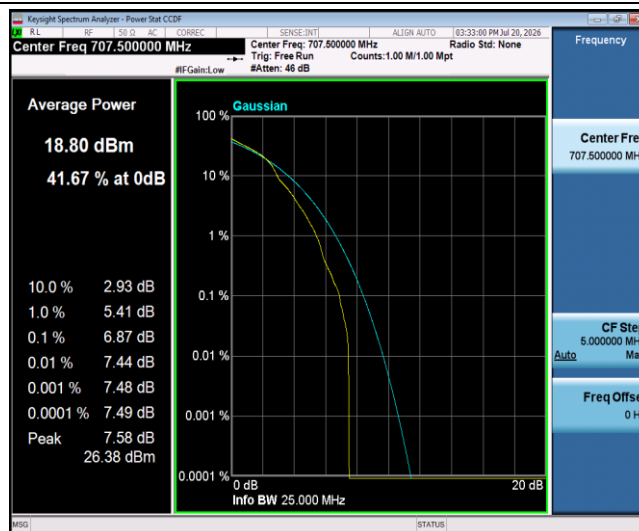
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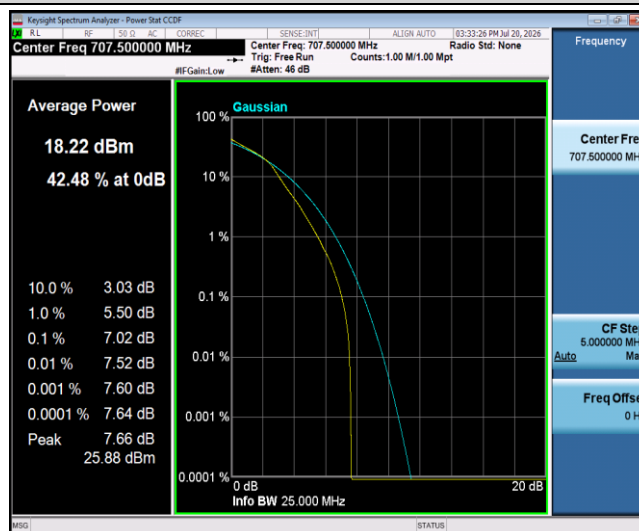
Band12-1.4MHz-16QAM-23017-1RB#0



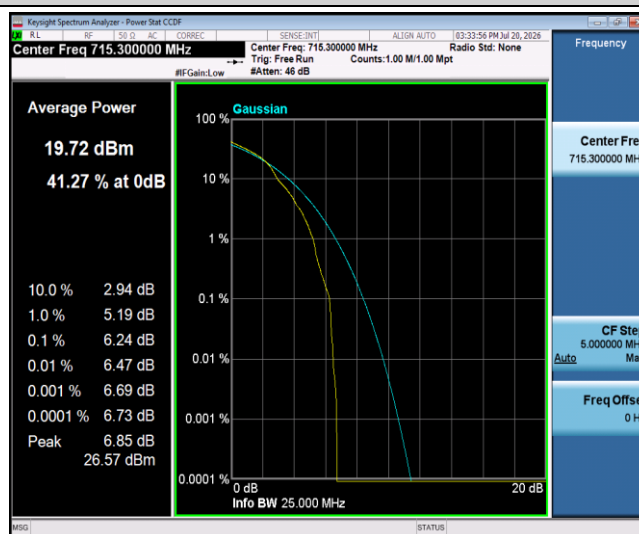
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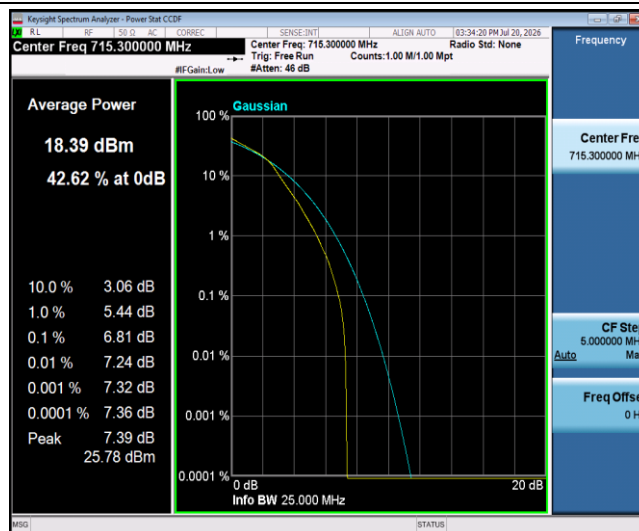
Band12-1.4MHz-16QAM-23095-1RB#0



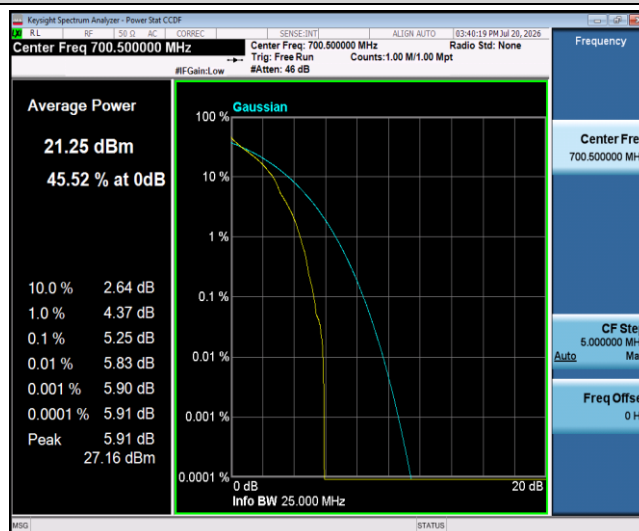
Band12-1.4MHz-16QAM-23095-6RB#0



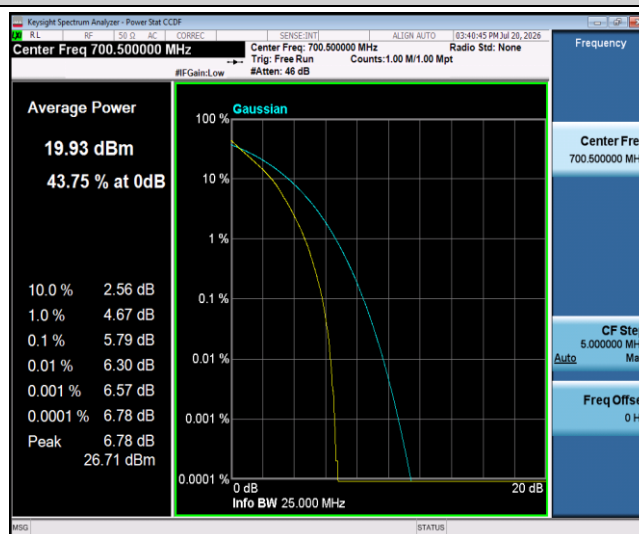
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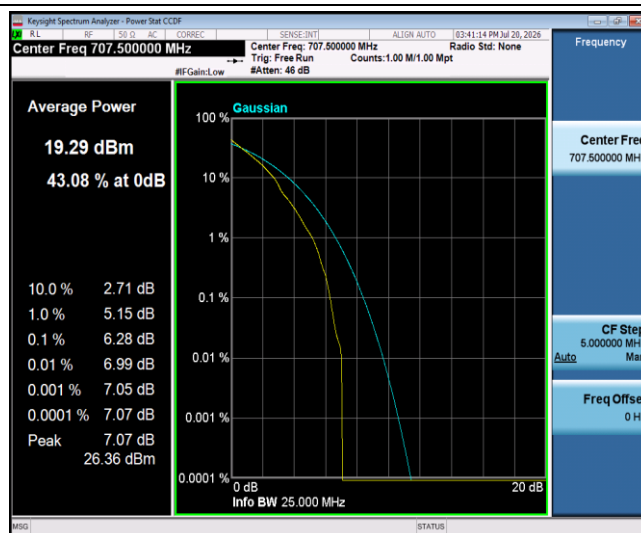
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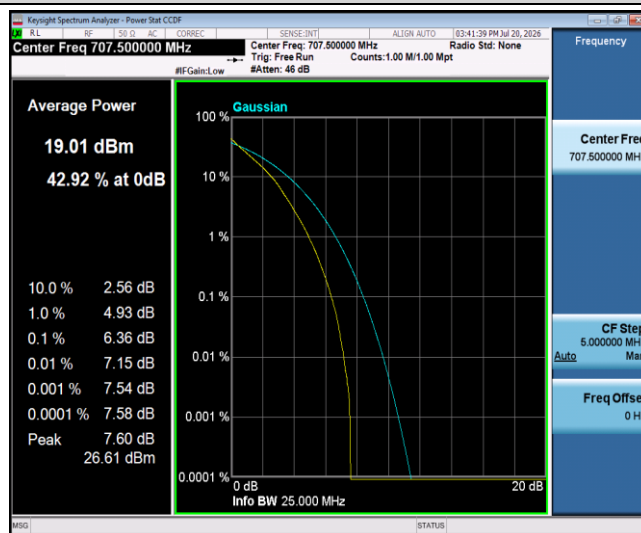
Band12-3MHz-QPSK-23025-1RB#0



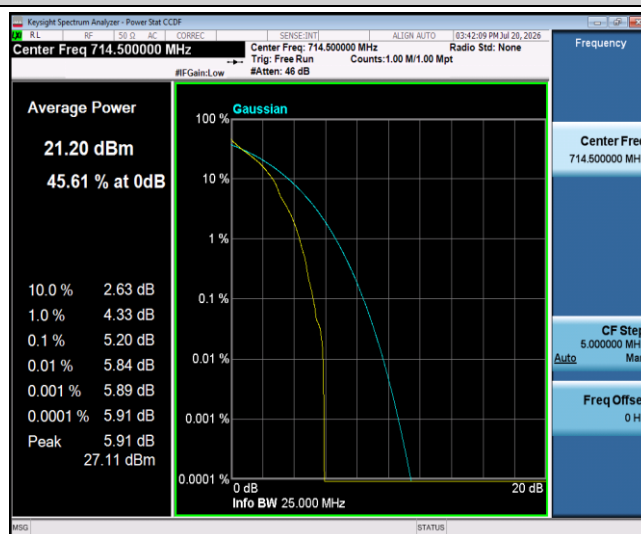
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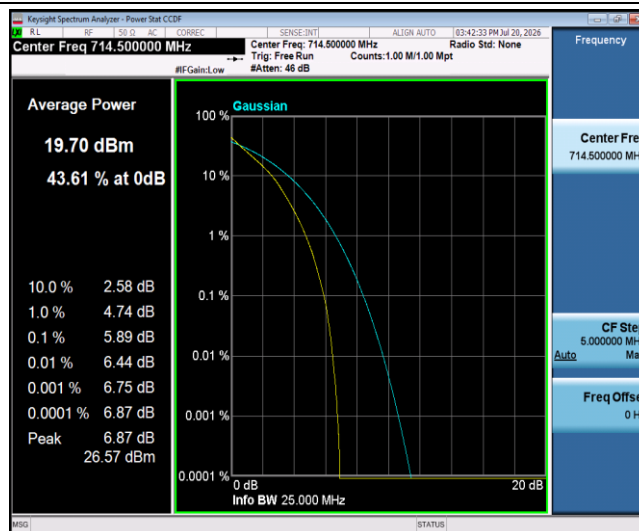
Band12-3MHz-QPSK-23095-1RB#0



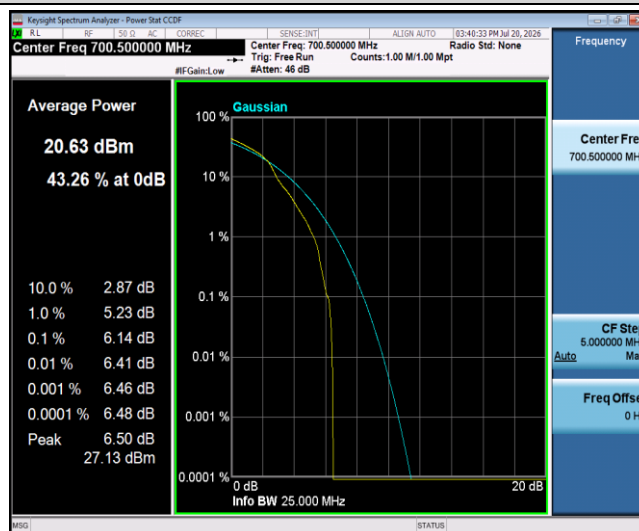
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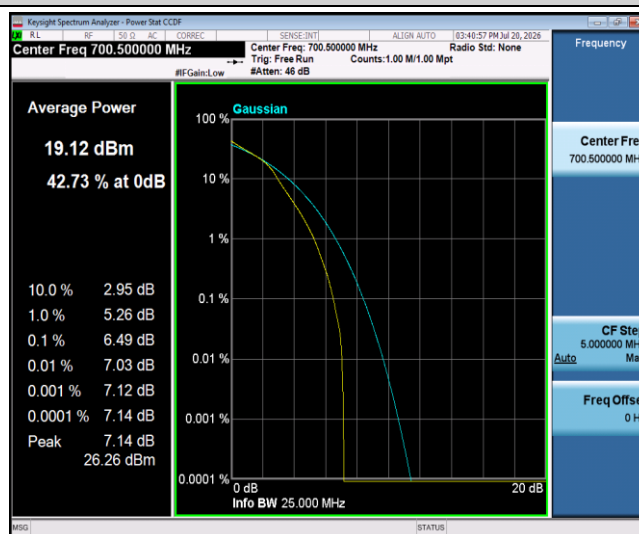
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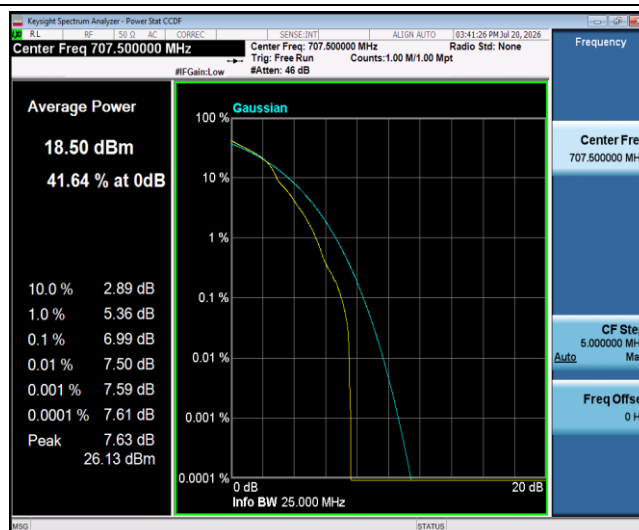
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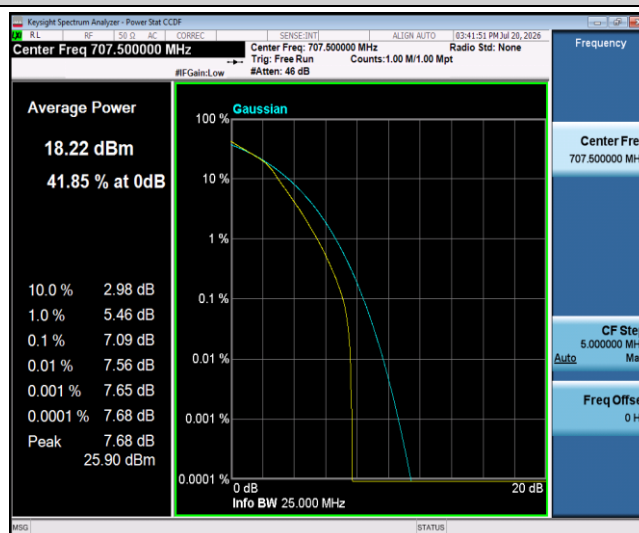
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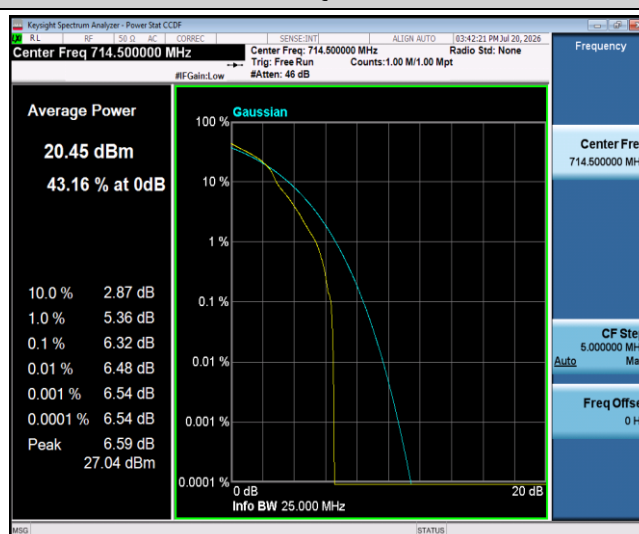
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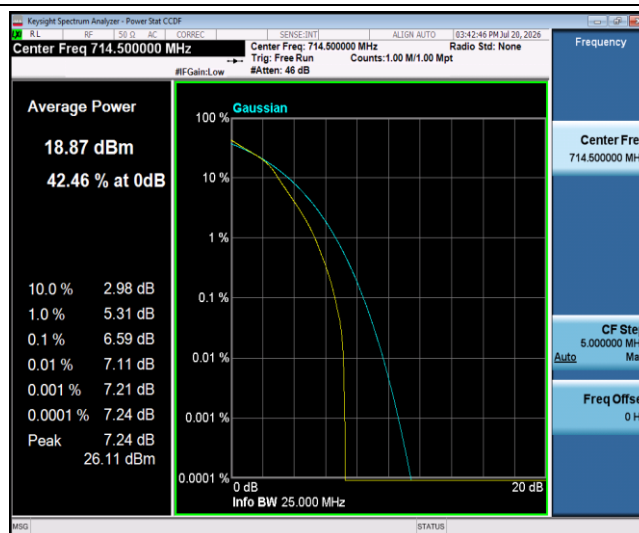
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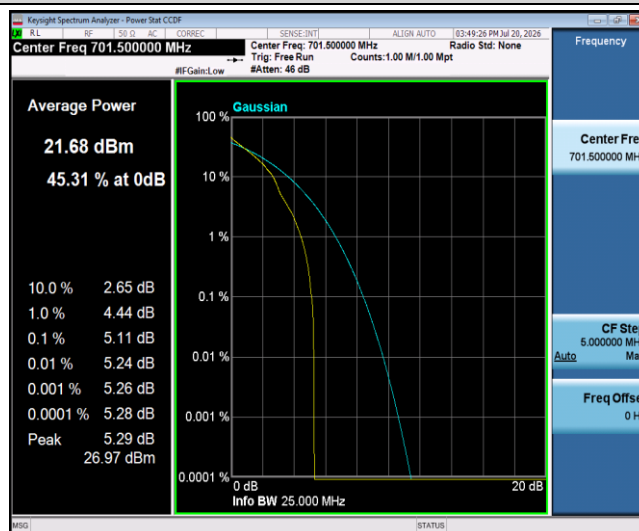
Band12-3MHz-16QAM-23095-15RB#0



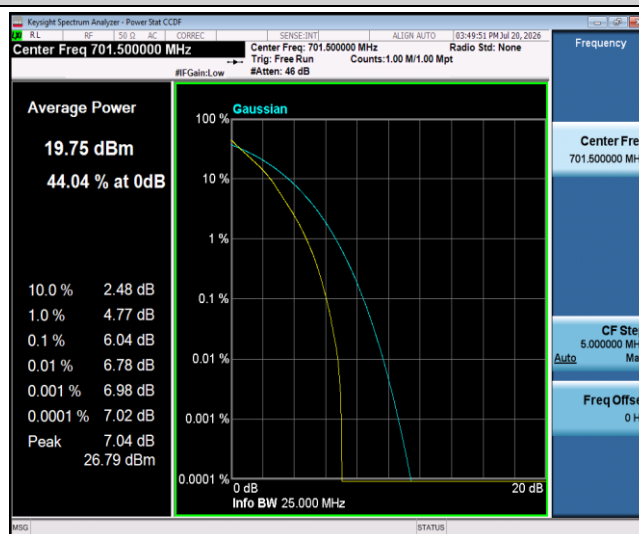
Band12-3MHz-16QAM-23165-1RB#0



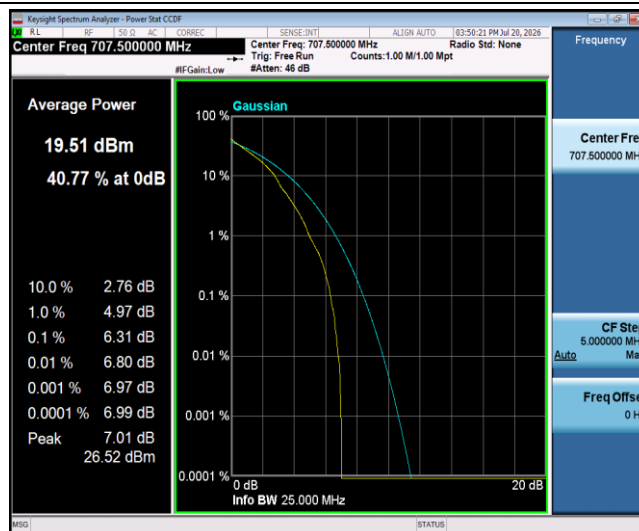
Band12-3MHz-16QAM-23165-15RB#0



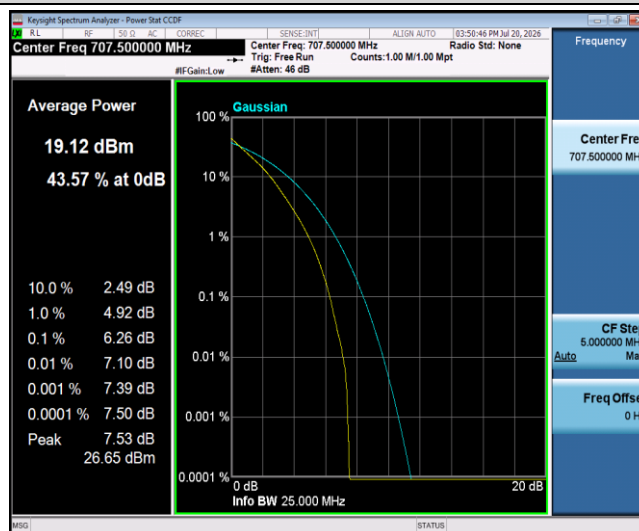
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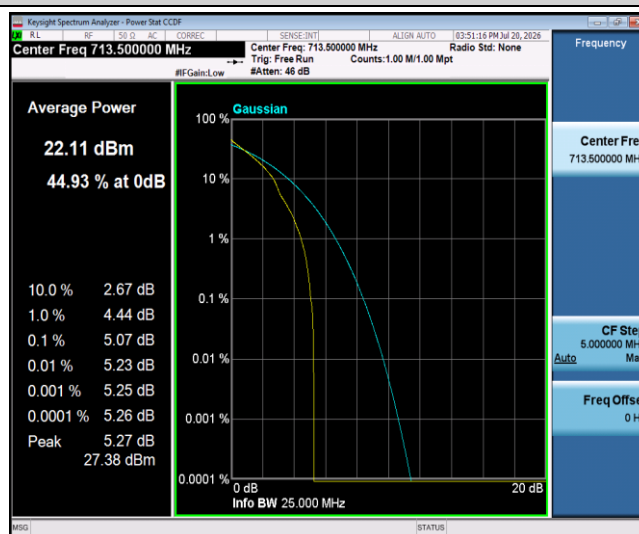
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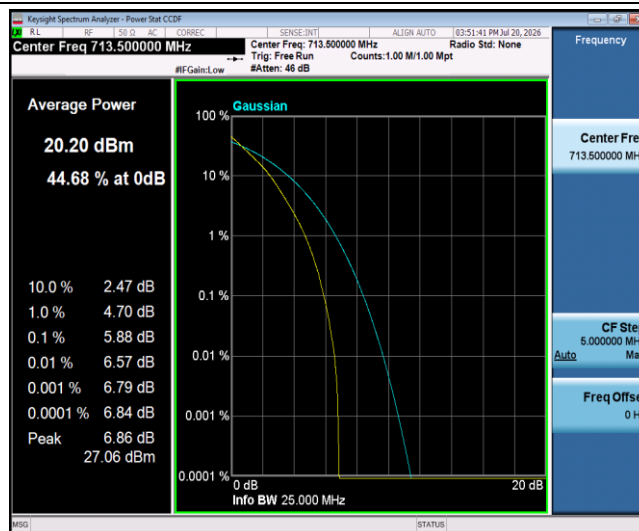
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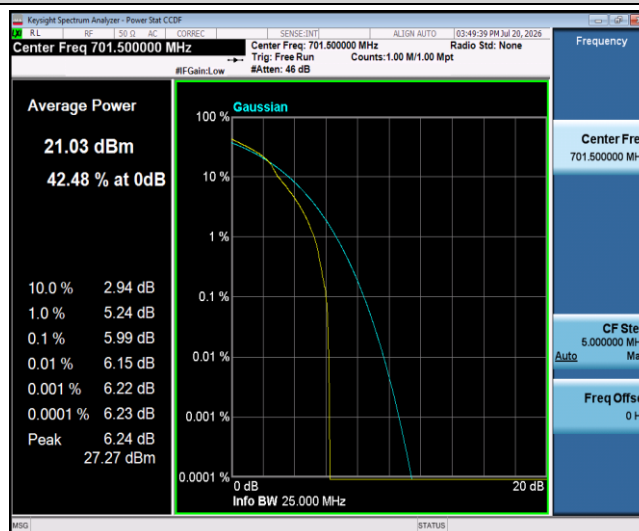
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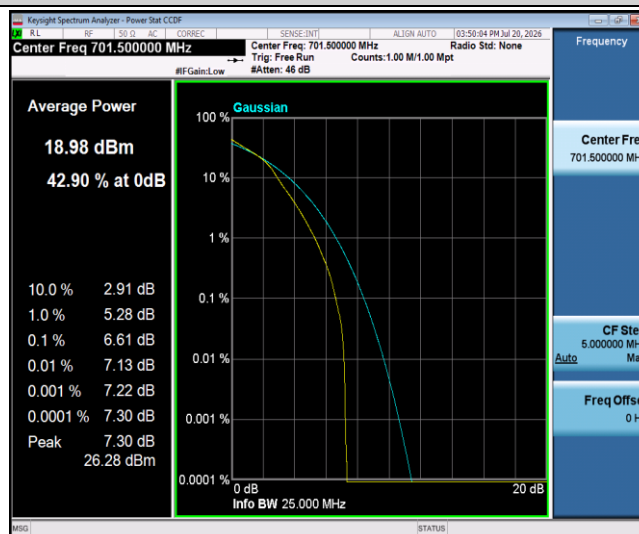
Band12-5MHz-QPSK-23155-1RB#0



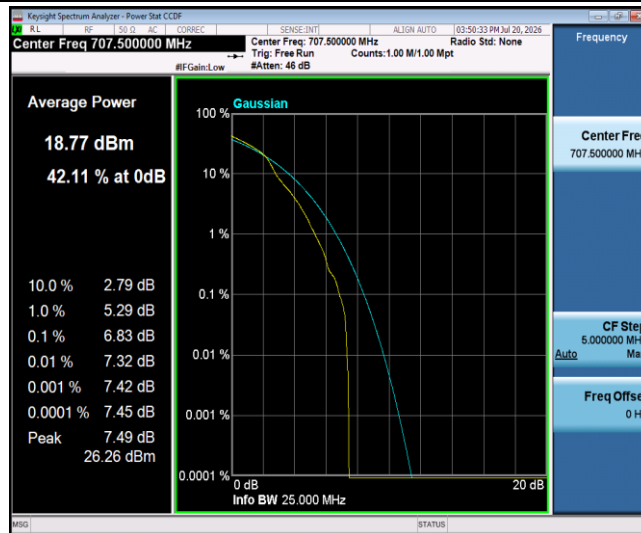
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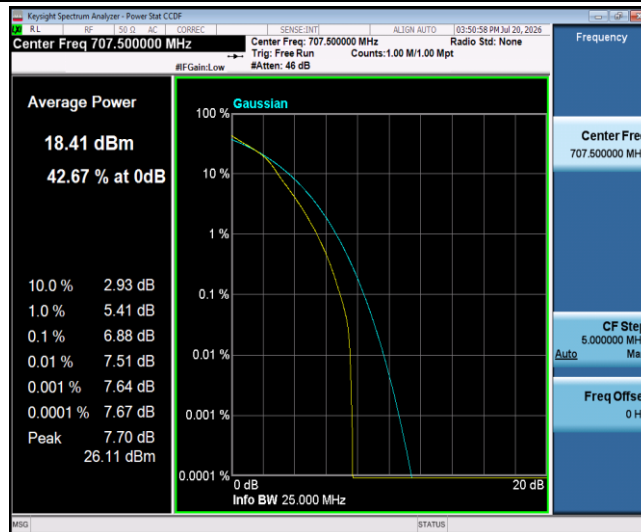
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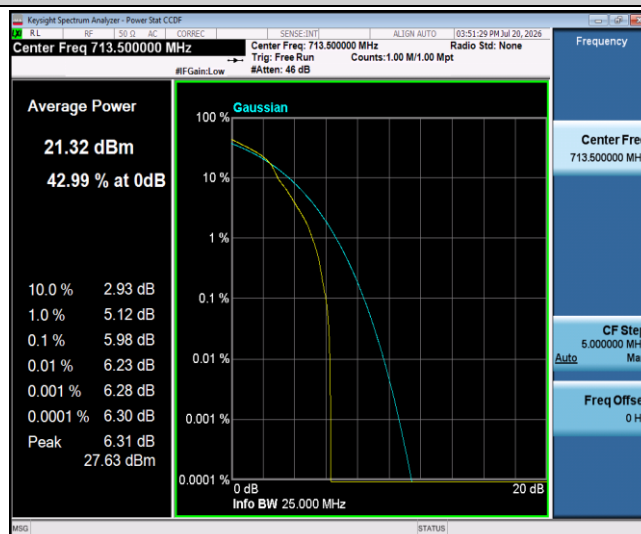
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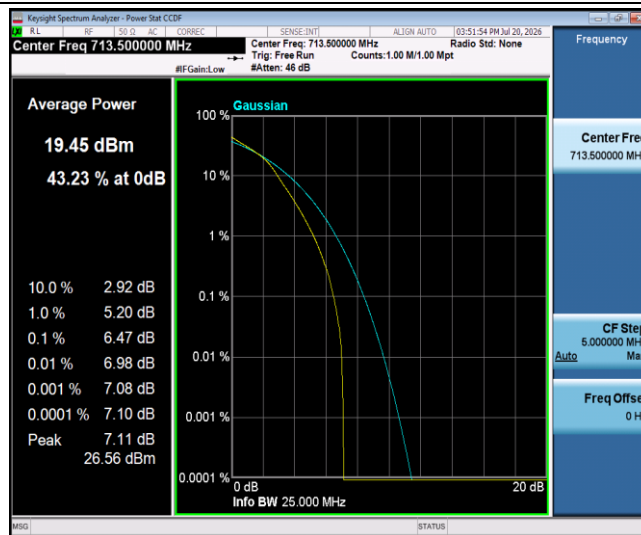
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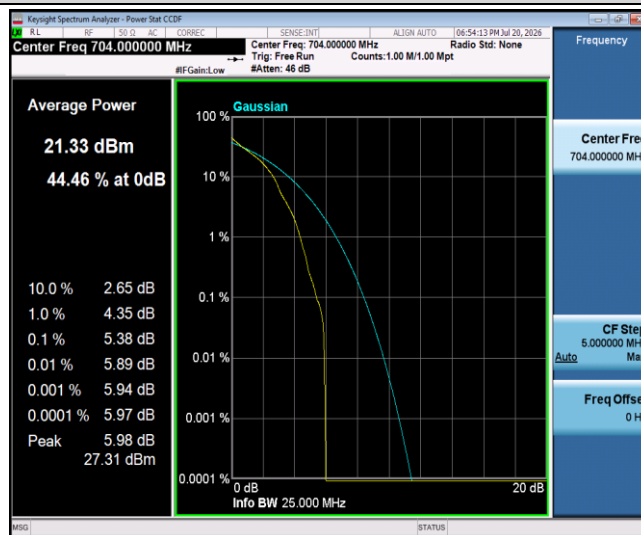
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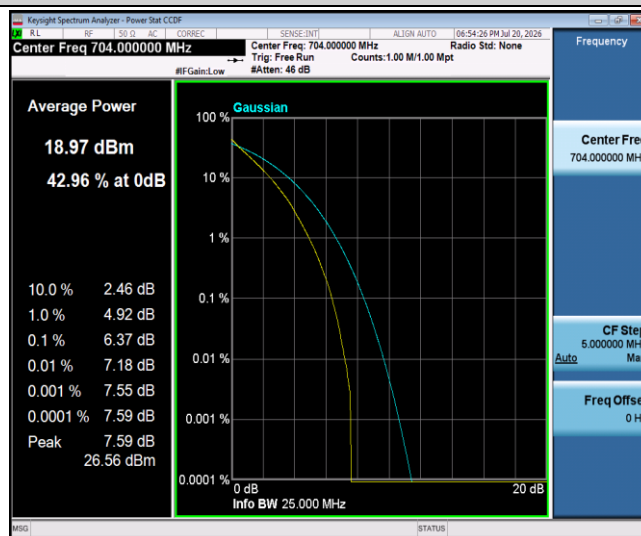
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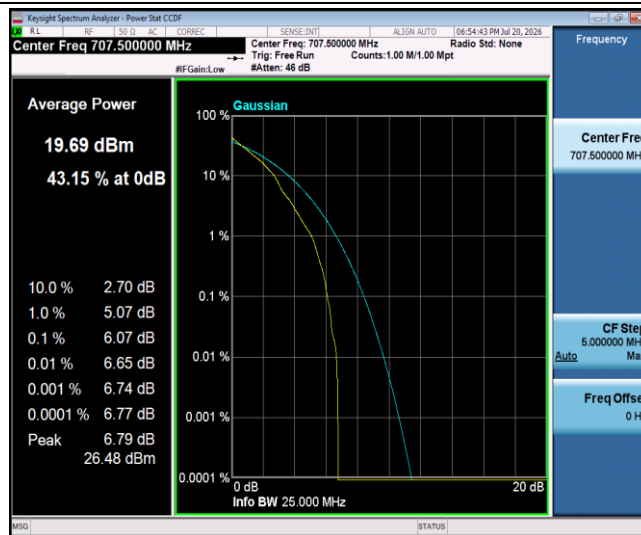
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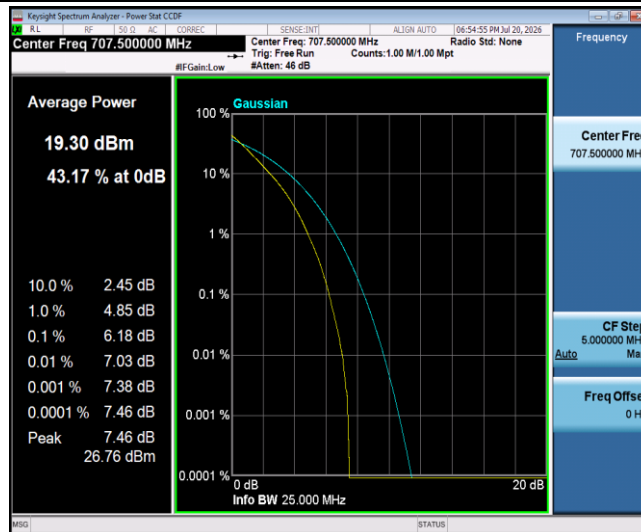
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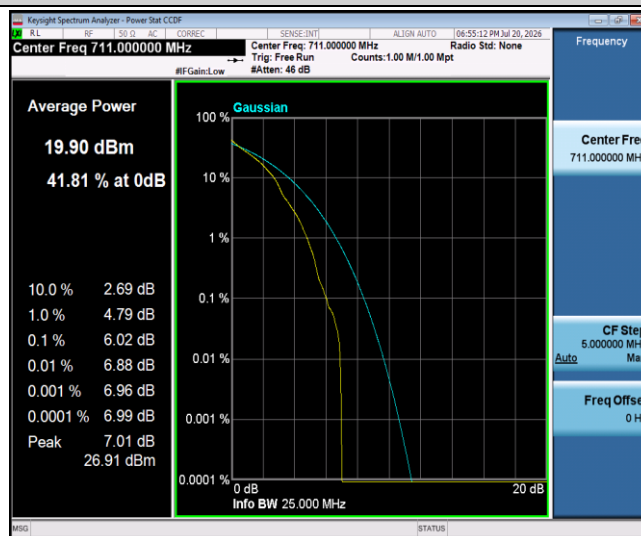
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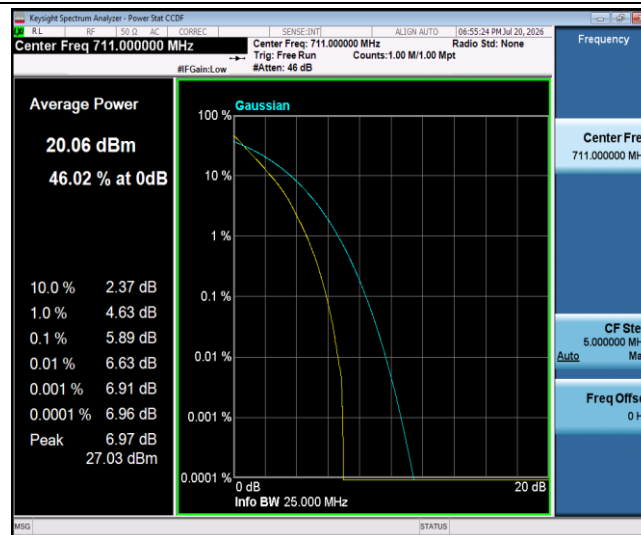
Band12-10MHz-QPSK-23095-1RB#0



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



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



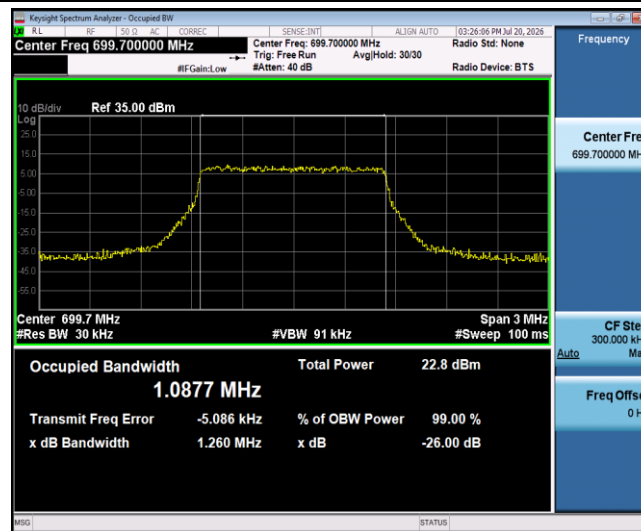
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Appendix C: 26dB Bandwidth and Occupied Bandwidth

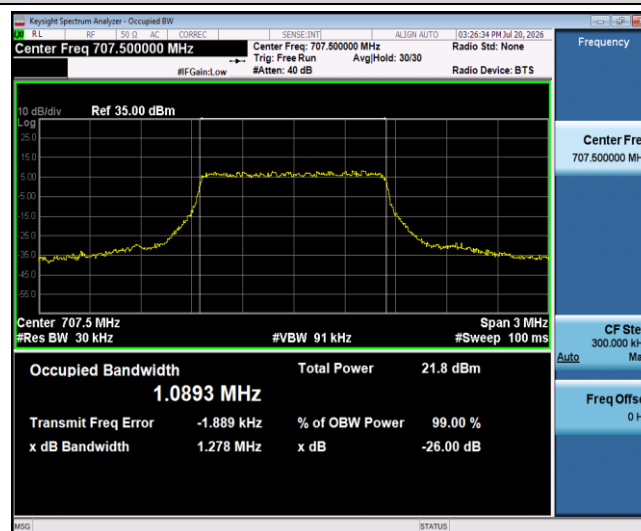
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0877	1.260	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0893	1.278	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0922	1.261	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0894	1.280	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0905	1.286	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0878	1.284	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6811	2.959	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6840	2.933	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6843	2.957	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6875	2.980	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6845	2.993	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6811	2.994	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5108	5.188	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5002	5.068	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5076	5.112	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5033	5.052	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5105	5.256	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4978	5.018	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0161	9.783	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9919	9.676	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9469	9.573	PASS

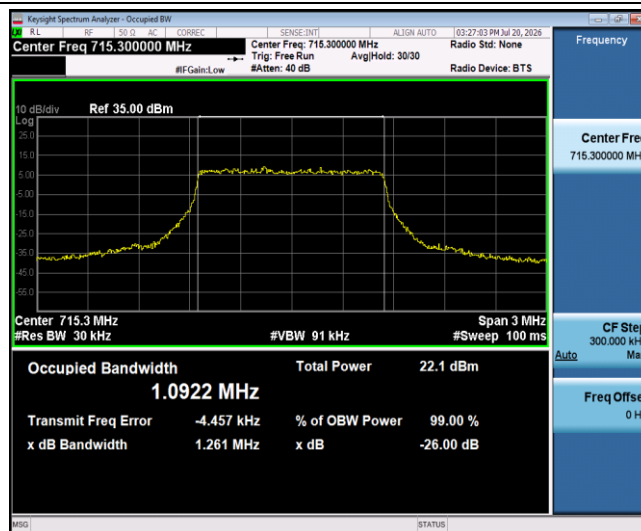
Test Graphs



Band12-1.4MHz-QPSK-23017-6RB#0



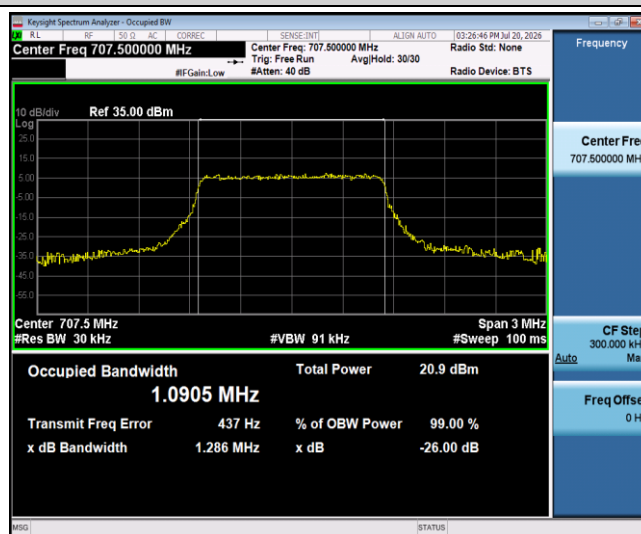
Band12-1.4MHz-QPSK-23095-6RB#0



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



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



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