

FCC Appendix RF Test Data for LTE band 12

Company : HK EKO ELECTRONICS LIMITED

EUT : GPS Tracker

Model Number : G05

Report No. : CTA26071602204

FCC ID : 2BR3K-GPSTRACK-G05

Reviewed By : Eric Wang

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.13	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.96	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.79	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.02	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.00	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.80	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.94	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.05	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.28	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.39	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.07	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.05	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.30	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.21	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.07	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.71	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.56	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.74	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.76	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.43	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.81	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.24	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.03	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.91	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.95	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.93	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.73	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.92	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.13	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.31	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.40	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.23	PASS

Band12	1.4MHz	16QAM	23095	3RB#1	21.20	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.37	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.46	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.14	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.05	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.83	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.81	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.63	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.93	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.22	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.00	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.35	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.26	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.31	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.84	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.07	PASS
Band12	3MHz	QPSK	23095	1RB#0	21.79	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.41	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.71	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.04	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.08	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.52	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.31	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.83	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.12	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.40	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.38	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.35	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.87	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.19	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.54	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.26	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.64	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.43	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.43	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.99	PASS

Band12	3MHz	16QAM	23025	15RB#0	21.07	PASS
Band12	3MHz	16QAM	23095	1RB#0	20.87	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.38	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.69	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.19	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.20	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.63	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.42	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.68	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.19	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.59	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.59	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.59	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.09	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.23	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.75	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.67	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.45	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.28	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.34	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.56	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.96	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.26	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.50	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.49	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.10	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.15	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.58	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.95	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.18	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.53	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.55	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.55	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.73	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.17	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.67	PASS

Band12	5MHz	16QAM	23035	1RB#12	21.71	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.39	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.49	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.51	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.74	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.00	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.48	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.70	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.69	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.36	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.37	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.14	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.66	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.97	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.09	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.55	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.57	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.60	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.76	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.21	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.81	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.22	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.13	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.07	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.21	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.68	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.91	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.44	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.29	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.71	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.01	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.04	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.15	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.62	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.01	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.28	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.30	PASS

Band12	10MHz	QPSK	23130	25RB#0	21.52	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.59	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.90	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.73	PASS

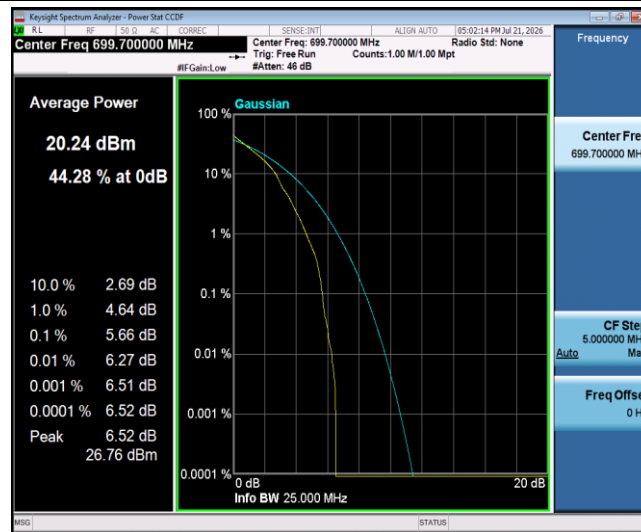
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

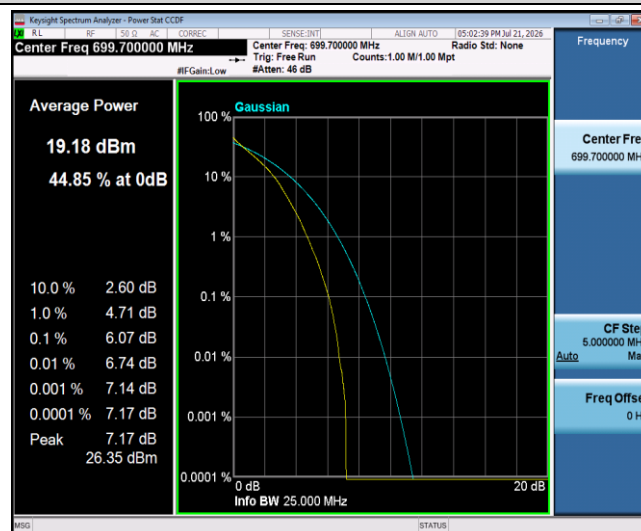
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.66	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	6.07	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	6.17	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	6.14	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	5.74	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	6.12	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	6.34	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.52	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.71	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.89	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	6.43	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.60	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.78	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.98	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	6.16	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	6.30	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.33	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.90	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	6.70	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.61	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.91	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.98	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	6.52	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.63	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.41	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	6.15	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	6.30	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	6.13	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.37	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	6.02	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	6.33	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.69	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.69	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.66	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	6.36	13	PASS

Band12	5MHz	16QAM	23155	25RB#0	6.56	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	5.48	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	6.27	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	6.10	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.05	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.93	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.90	13	PASS

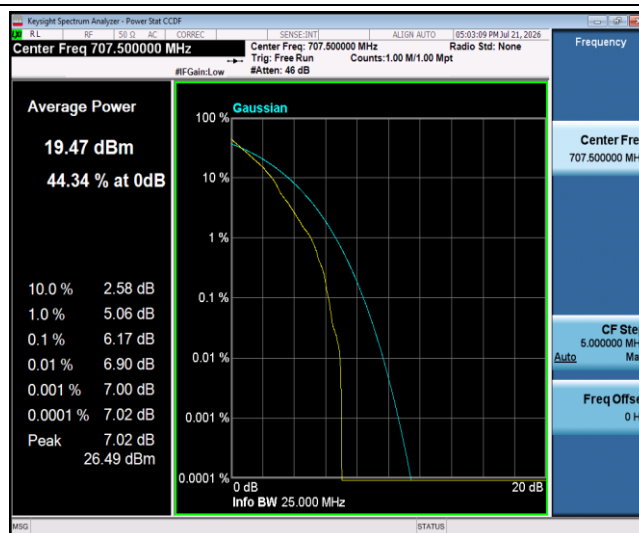
Test Graphs



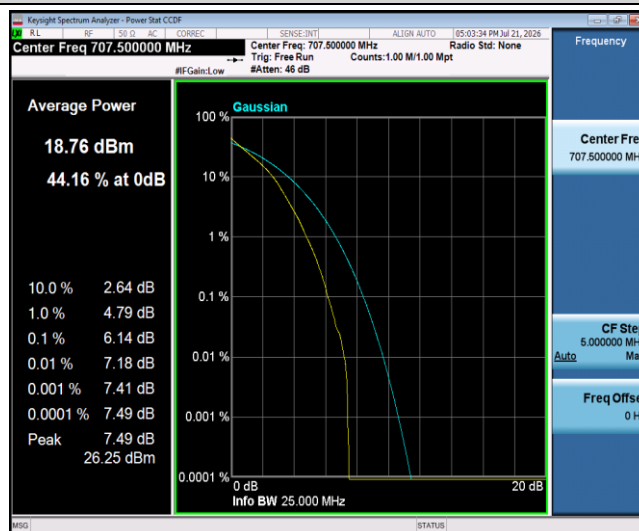
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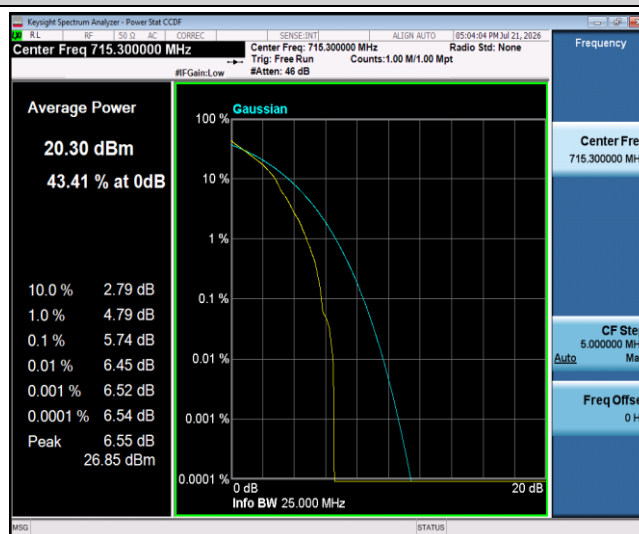
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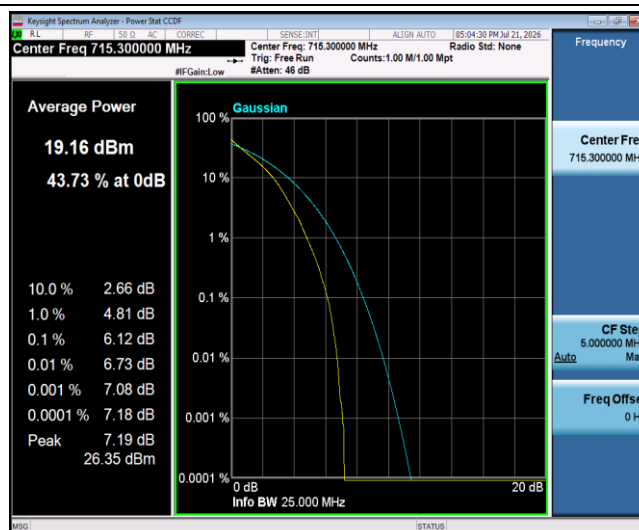
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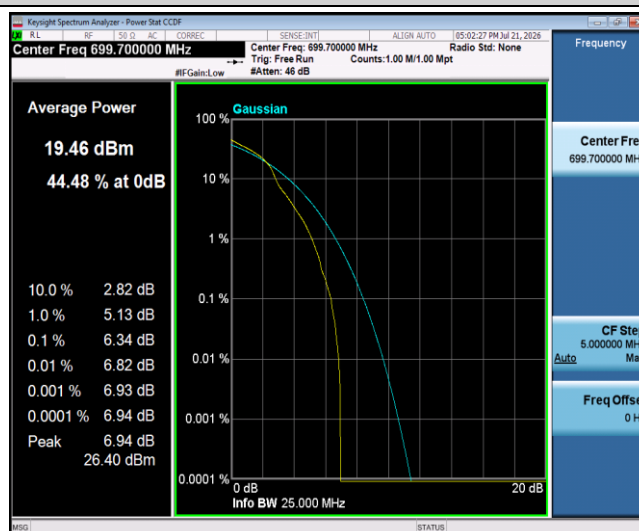
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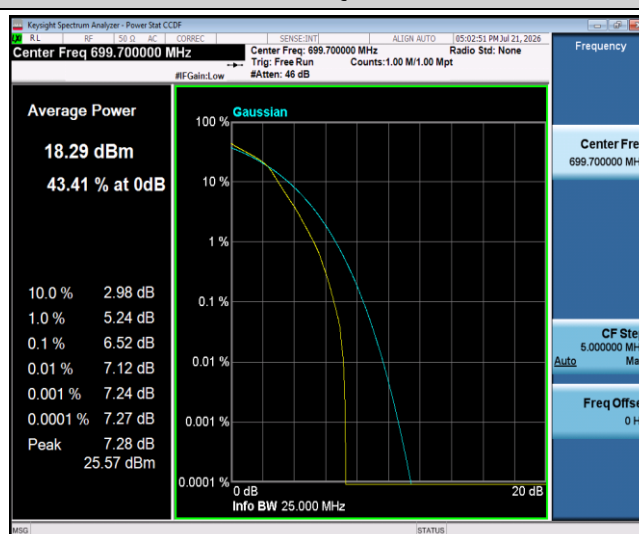
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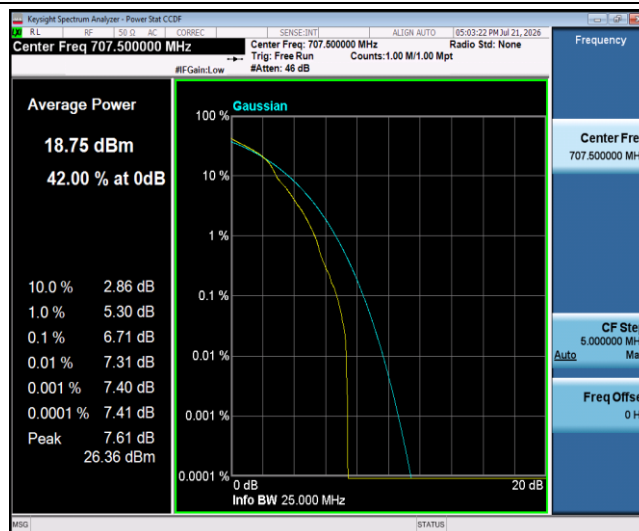
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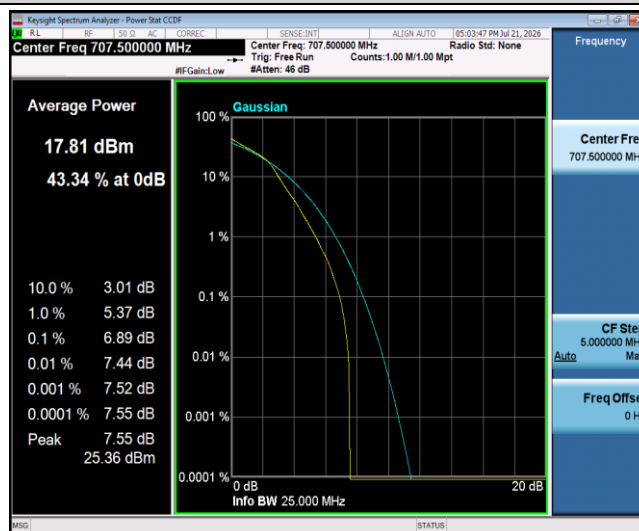
Band12-1.4MHz-16QAM-23017-1RB#0



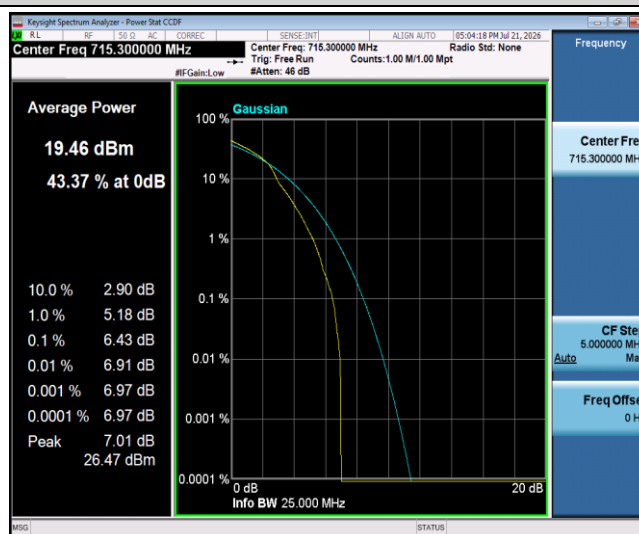
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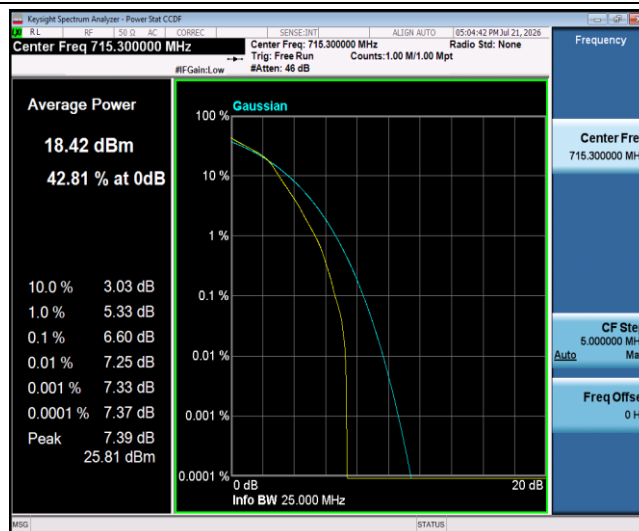
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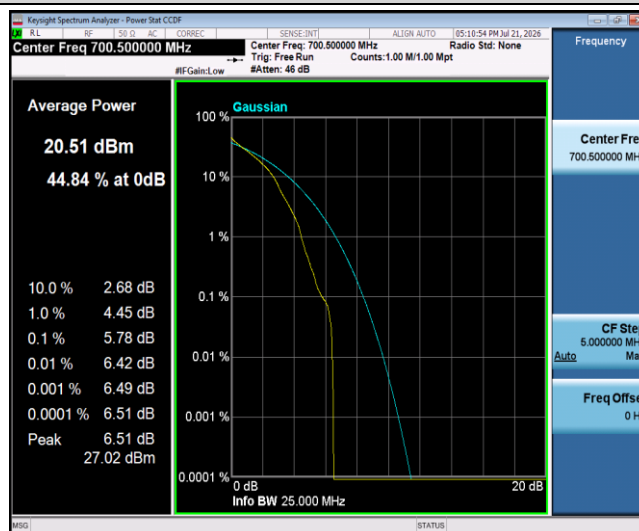
Band12-1.4MHz-16QAM-23095-6RB#0



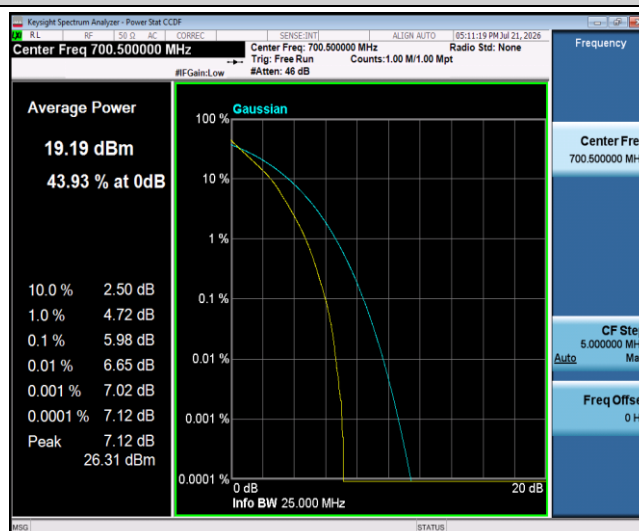
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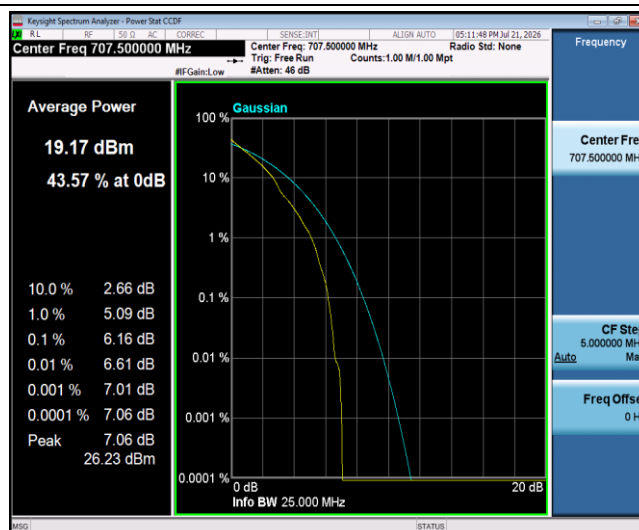
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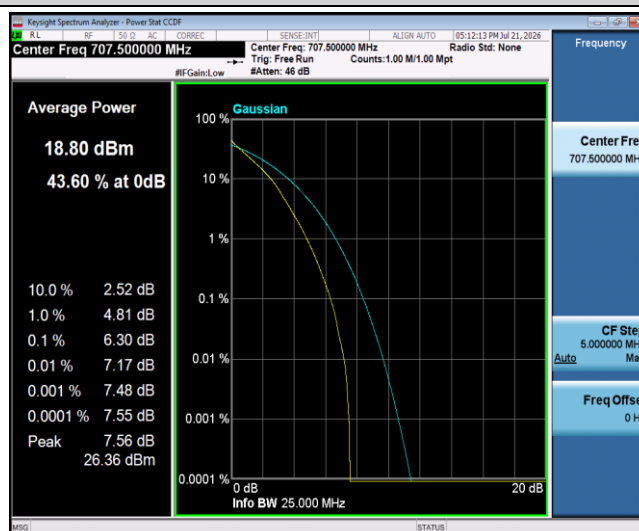
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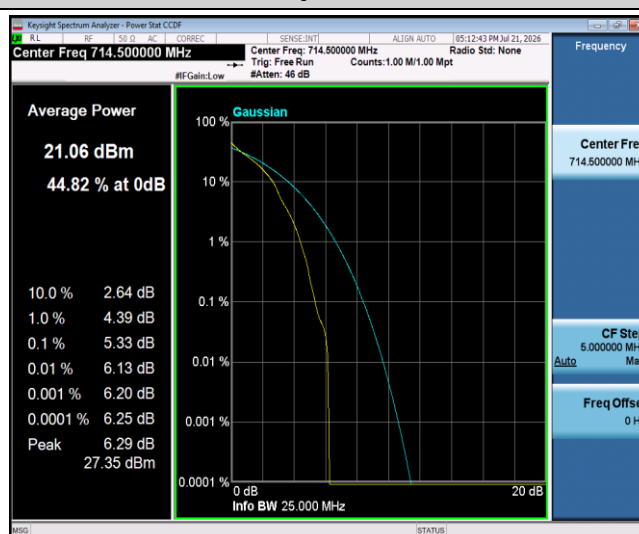
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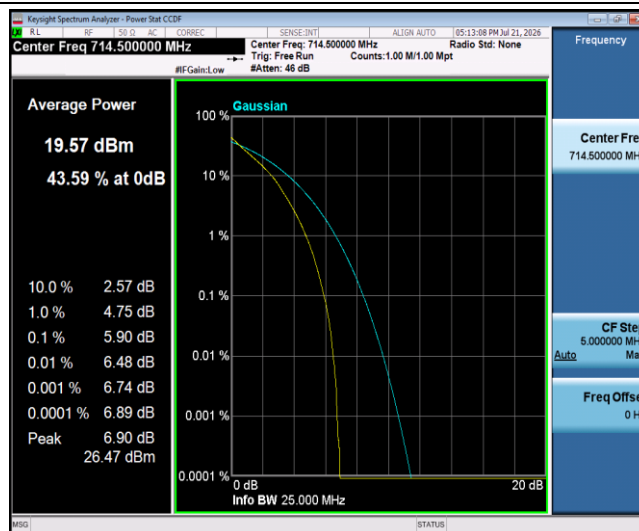
Band12-3MHz-QPSK-23095-1RB#0



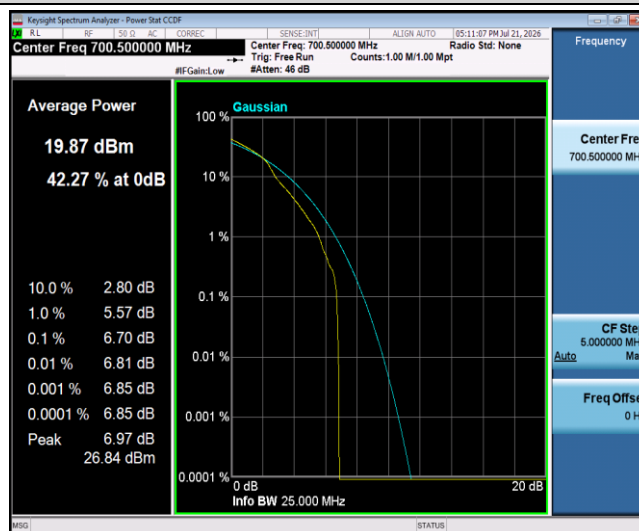
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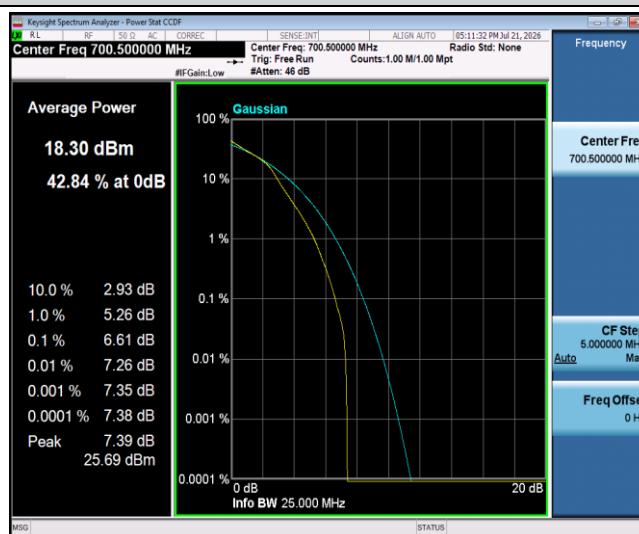
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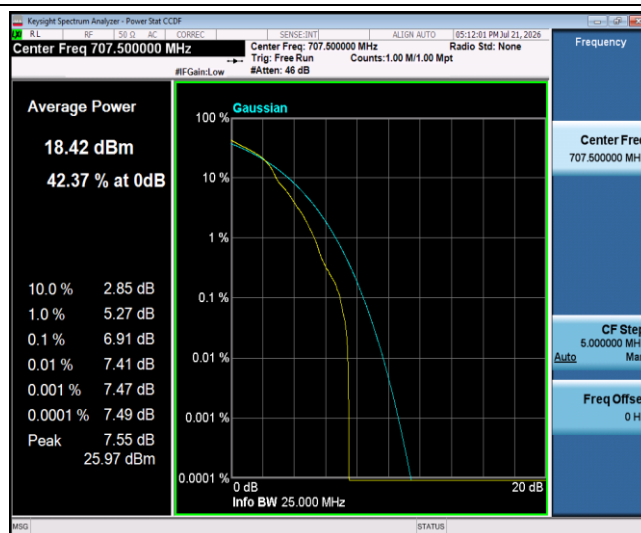
Band12-3MHz-QPSK-23165-15RB#0



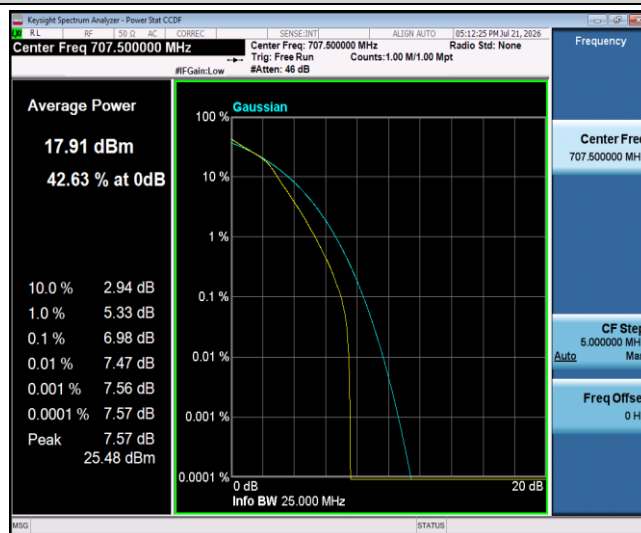
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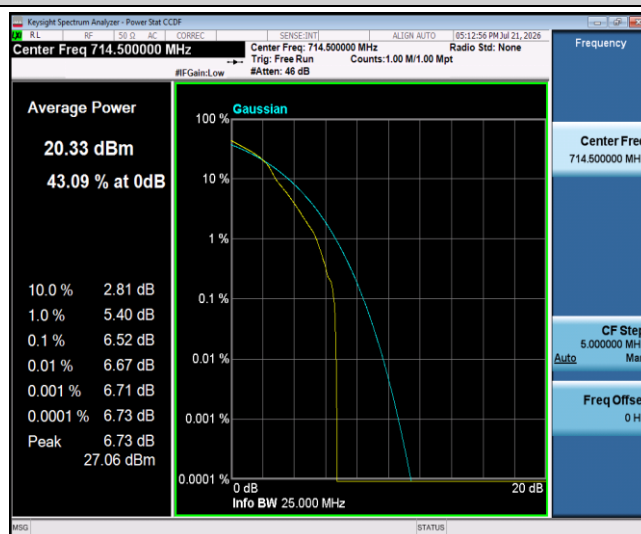
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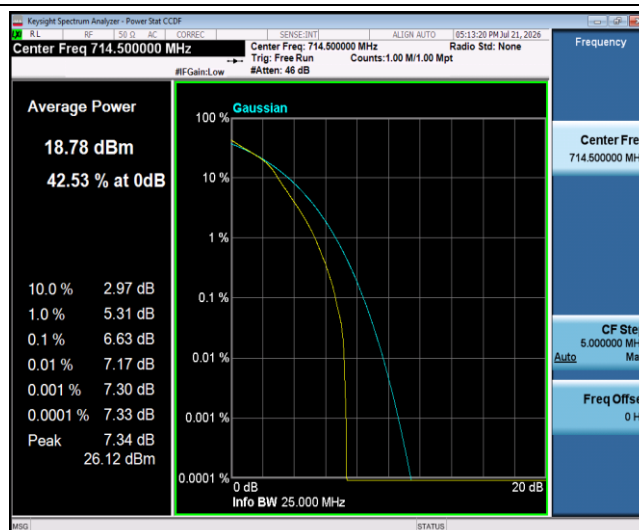
Band12-3MHz-16QAM-23095-1RB#0



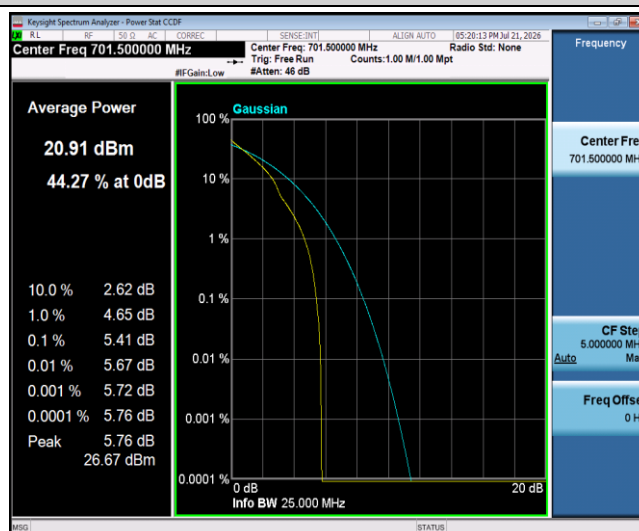
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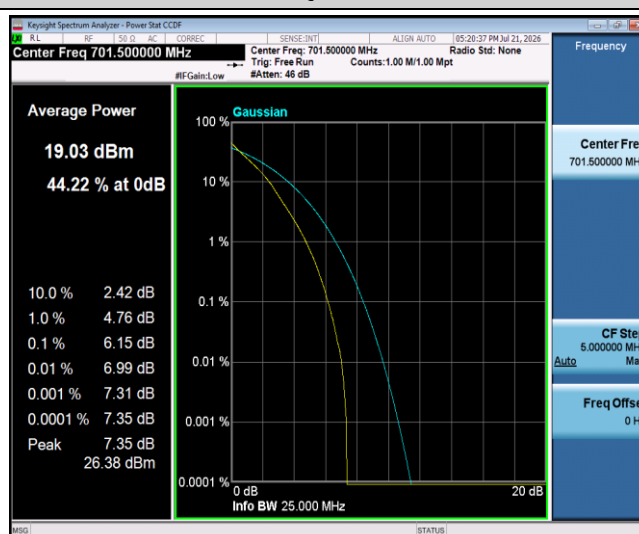
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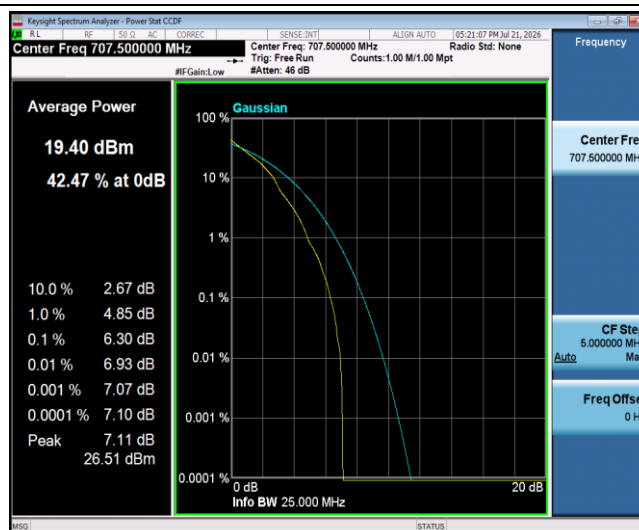
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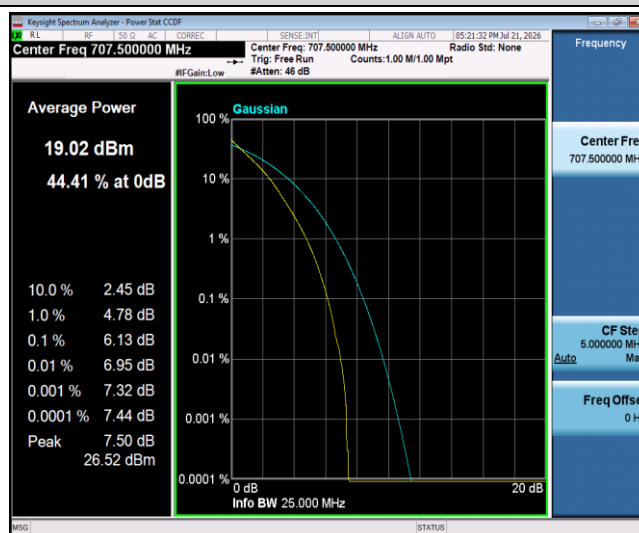
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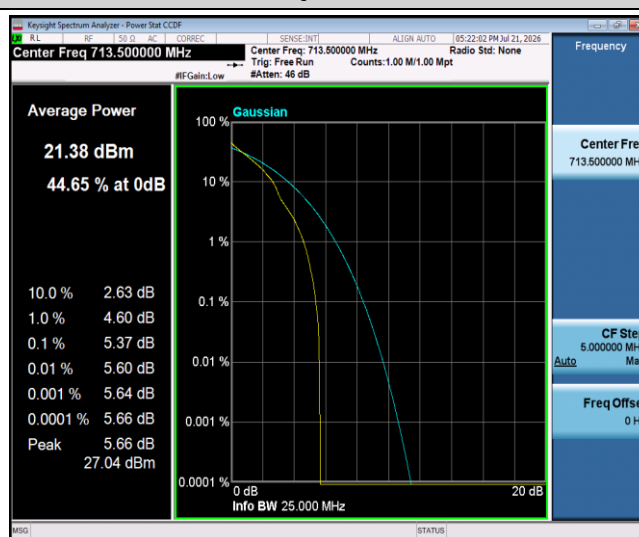
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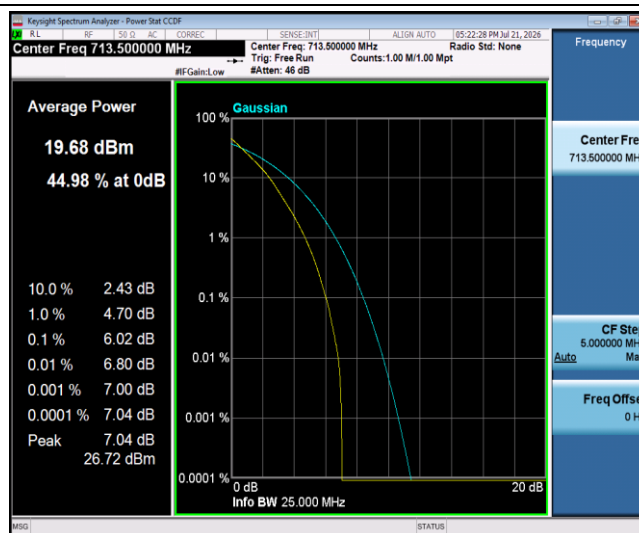
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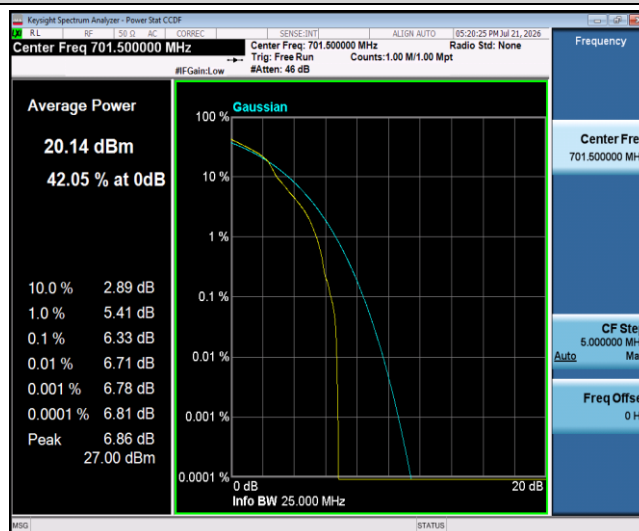
Band12-5MHz-QPSK-23095-25RB#0



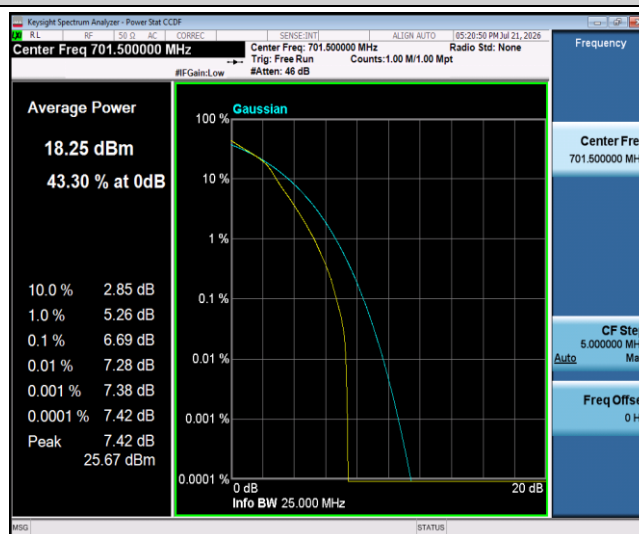
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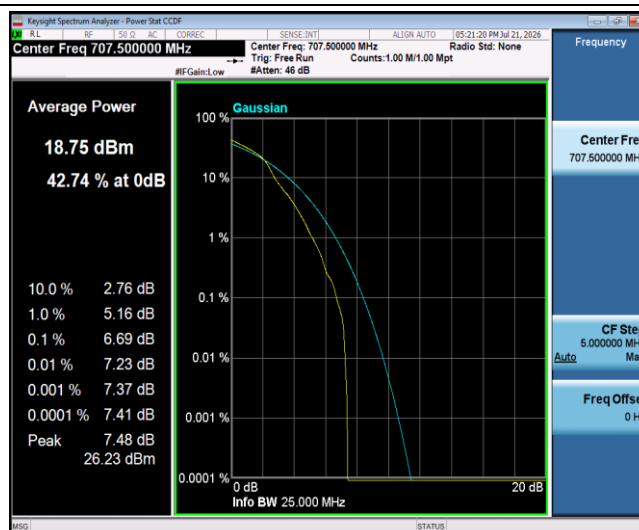
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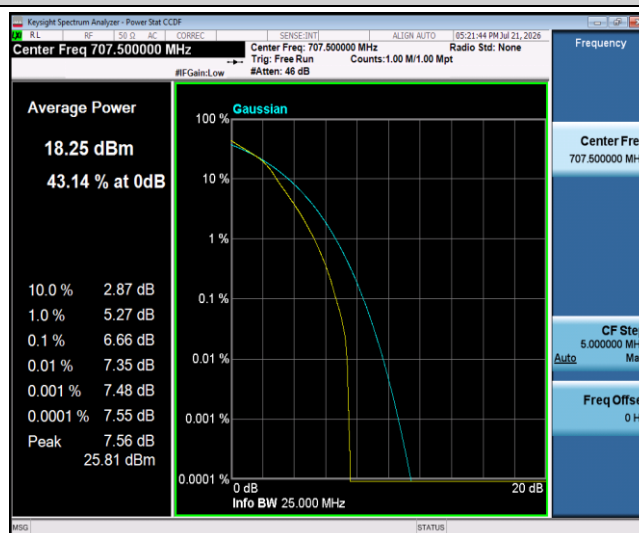
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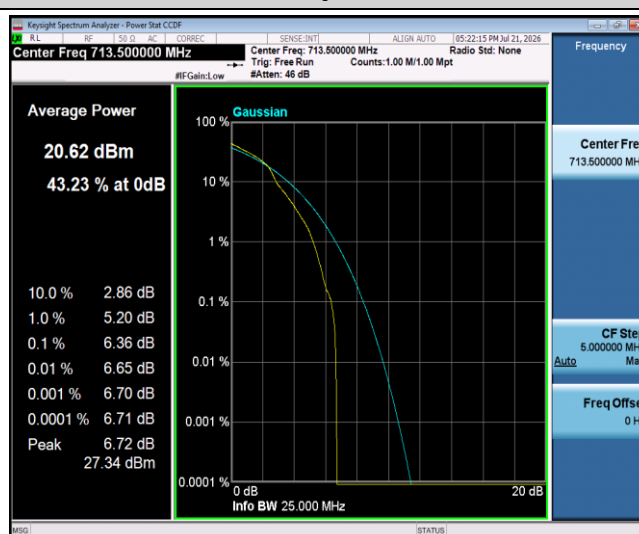
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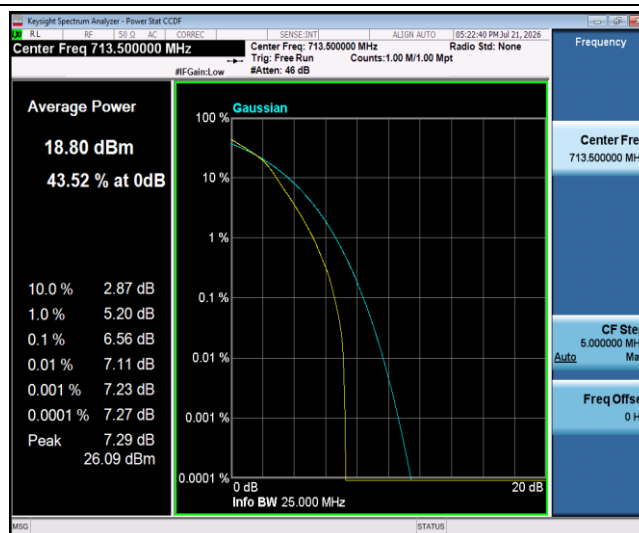
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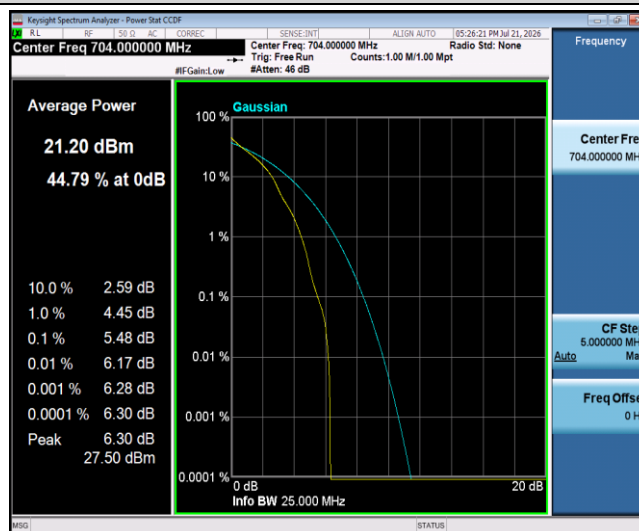
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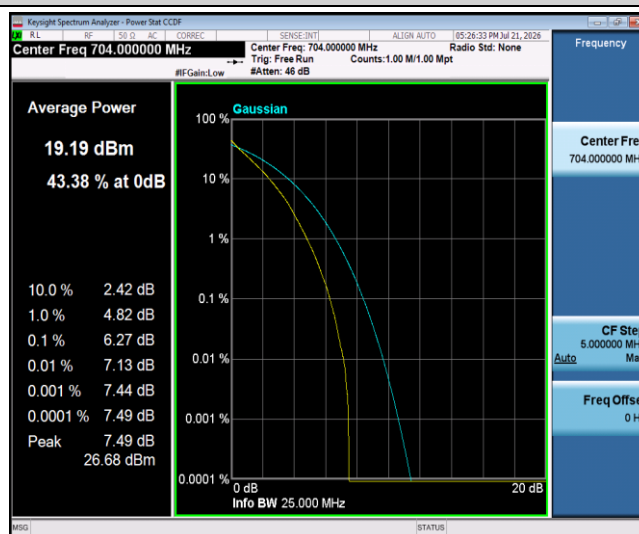
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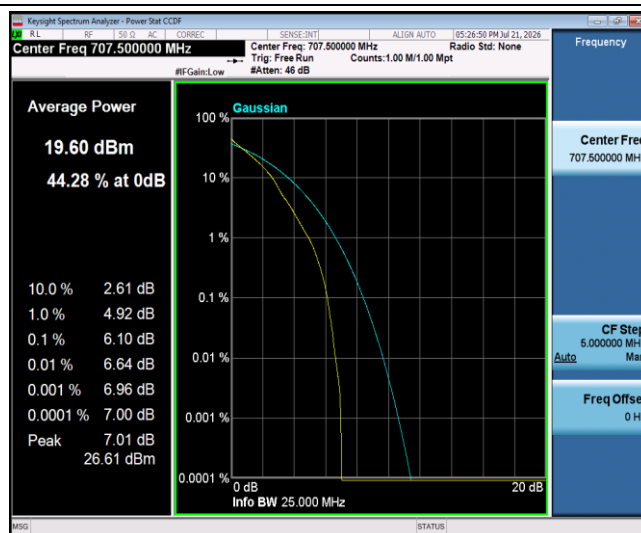
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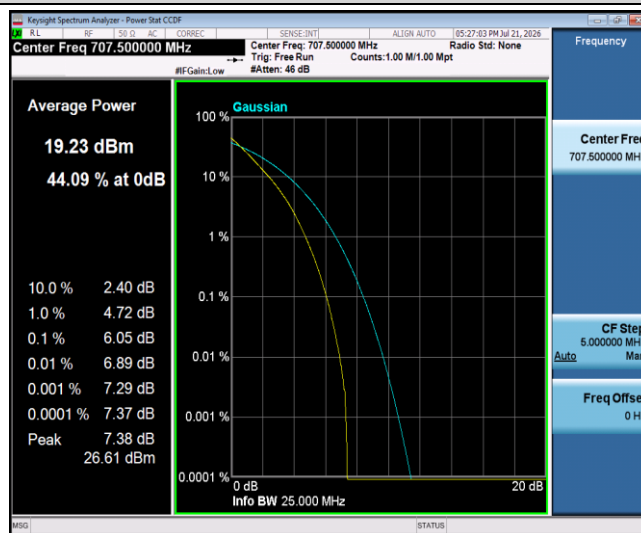
Band12-10MHz-QPSK-23060-1RB#0



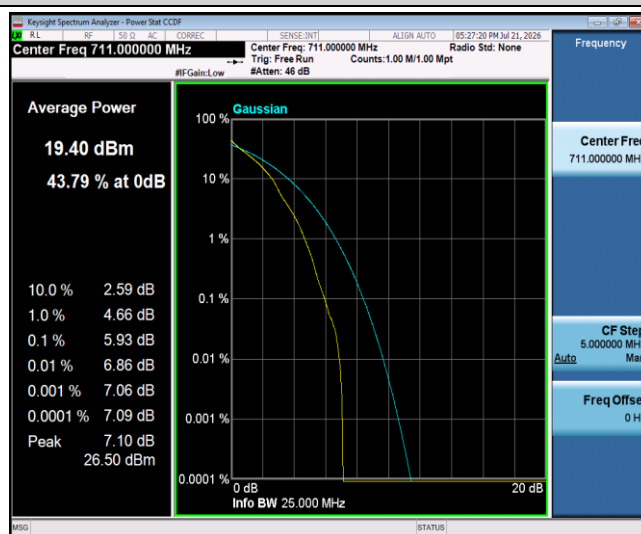
Band12-10MHz-QPSK-23060-50RB#0



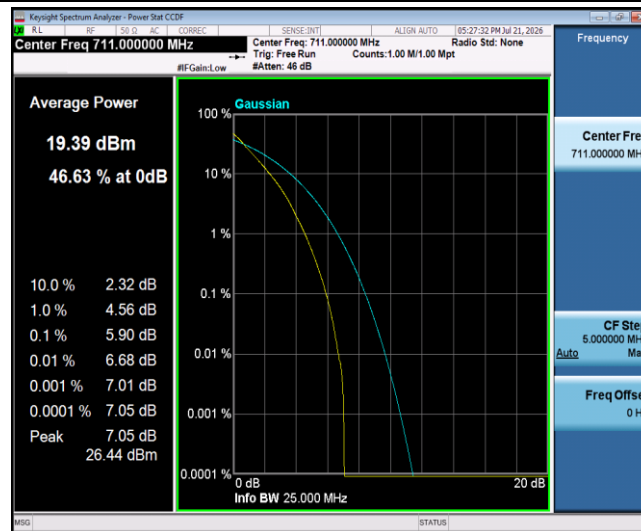
Band12-10MHz-QPSK-23095-1RB#0



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



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



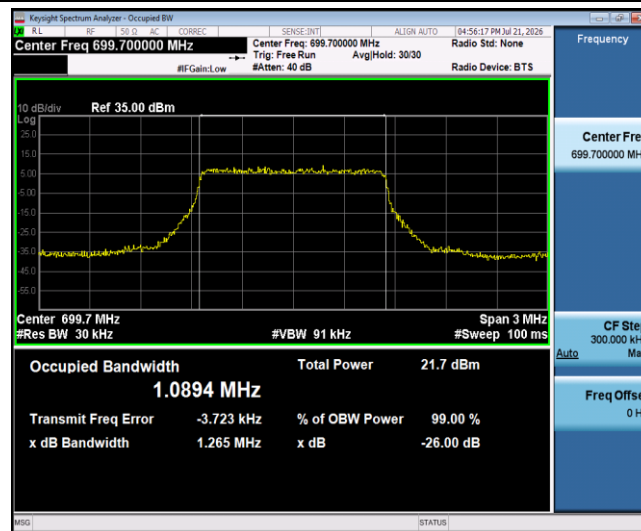
Band12-10MHz-QPSK-23130-50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

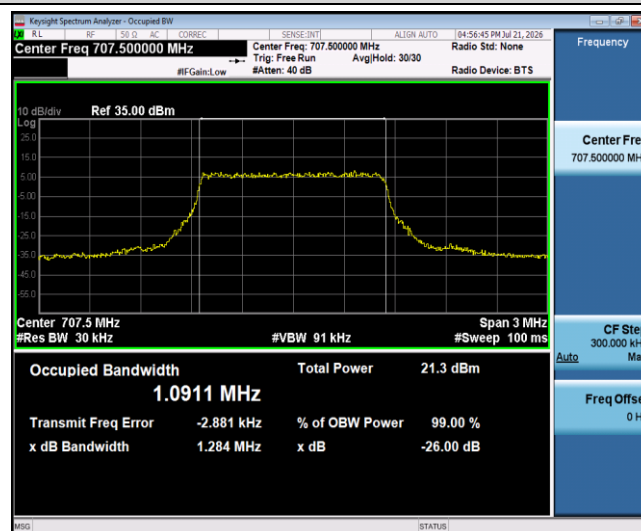
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0894	1.265	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0911	1.284	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0918	1.262	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0899	1.280	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0925	1.277	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0904	1.280	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7002	3.003	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7010	2.988	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7002	3.024	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7063	3.015	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6984	3.074	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6958	3.028	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5185	5.161	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4960	5.062	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5120	5.093	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4994	5.145	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5084	5.225	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5028	5.038	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0092	9.767	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9778	9.609	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9587	9.545	PASS

Test Graphs



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



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