



Appendix E: Test Data for CatM1 Band 12

Product Name: Gulliver

Test Model: Gulliver

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng





E.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	22.47	PASS
Band12	1.4MHz	23017	QPSK	1	5	Low	22.48	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	22.54	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	22.75	PASS
Band12	1.4MHz	23095	QPSK	1	5	Low	22.88	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	22.22	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	22.40	PASS
Band12	1.4MHz	23173	QPSK	1	5	High	22.46	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	22.75	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	22.93	PASS
Band12	1.4MHz	23017	16QAM	1	5	Low	22.91	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	22.68	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	22.62	PASS
Band12	1.4MHz	23095	16QAM	1	5	Low	22.35	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	22.91	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	22.71	PASS
Band12	1.4MHz	23173	16QAM	1	5	High	22.93	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	22.55	PASS
Band12	3MHz	23025	QPSK	1	0	Low	22.72	PASS
Band12	3MHz	23025	QPSK	1	5	Low	22.34	PASS
Band12	3MHz	23025	QPSK	6	0	Low	22.56	PASS
Band12	3MHz	23095	QPSK	1	0	Low	22.60	PASS
Band12	3MHz	23095	QPSK	1	5	Low	22.57	PASS
Band12	3MHz	23095	QPSK	6	0	Low	22.88	PASS
Band12	3MHz	23165	QPSK	1	0	High	22.55	PASS
Band12	3MHz	23165	QPSK	1	5	High	22.57	PASS
Band12	3MHz	23165	QPSK	6	0	High	22.90	PASS
Band12	3MHz	23025	16QAM	1	0	Low	22.90	PASS
Band12	3MHz	23025	16QAM	1	5	Low	22.97	PASS
Band12	3MHz	23025	16QAM	6	0	Low	22.50	PASS
Band12	3MHz	23095	16QAM	1	0	Low	22.00	PASS
Band12	3MHz	23095	16QAM	1	5	Low	22.21	PASS
Band12	3MHz	23095	16QAM	6	0	Low	22.48	PASS
Band12	3MHz	23165	16QAM	1	0	High	22.52	PASS
Band12	3MHz	23165	16QAM	1	5	High	22.31	PASS
Band12	3MHz	23165	16QAM	6	0	High	22.82	PASS
Band12	5MHz	23035	QPSK	1	0	Low	22.36	PASS



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Band12	5MHz	23035	QPSK	1	5	Low	22.38	PASS
Band12	5MHz	23035	QPSK	6	0	Low	22.50	PASS
Band12	5MHz	23095	QPSK	1	0	Low	22.84	PASS
Band12	5MHz	23095	QPSK	1	5	Low	22.24	PASS
Band12	5MHz	23095	QPSK	6	0	Low	22.44	PASS
Band12	5MHz	23155	QPSK	1	0	High	22.84	PASS
Band12	5MHz	23155	QPSK	1	5	High	22.73	PASS
Band12	5MHz	23155	QPSK	6	0	High	22.82	PASS
Band12	5MHz	23035	16QAM	1	0	Low	22.84	PASS
Band12	5MHz	23035	16QAM	1	5	Low	22.36	PASS
Band12	5MHz	23035	16QAM	6	0	Low	22.40	PASS
Band12	5MHz	23095	16QAM	1	0	Low	22.32	PASS
Band12	5MHz	23095	16QAM	1	5	Low	22.84	PASS
Band12	5MHz	23095	16QAM	6	0	Low	22.92	PASS
Band12	5MHz	23155	16QAM	1	0	High	22.51	PASS
Band12	5MHz	23155	16QAM	1	5	High	22.32	PASS
Band12	5MHz	23155	16QAM	6	0	High	22.38	PASS
Band12	10MHz	23060	QPSK	1	0	Low	22.58	PASS
Band12	10MHz	23060	QPSK	1	5	Low	22.15	PASS
Band12	10MHz	23060	QPSK	6	0	Low	22.21	PASS
Band12	10MHz	23095	QPSK	1	0	Low	22.57	PASS
Band12	10MHz	23095	QPSK	1	5	Low	22.97	PASS
Band12	10MHz	23095	QPSK	6	0	Low	22.09	PASS
Band12	10MHz	23130	QPSK	1	0	High	22.51	PASS
Band12	10MHz	23130	QPSK	1	5	High	22.89	PASS
Band12	10MHz	23130	QPSK	6	0	High	22.96	PASS
Band12	10MHz	23060	16QAM	1	0	Low	22.59	PASS
Band12	10MHz	23060	16QAM	1	5	Low	22.20	PASS
Band12	10MHz	23060	16QAM	6	0	Low	22.01	PASS
Band12	10MHz	23095	16QAM	1	0	Low	22.84	PASS
Band12	10MHz	23095	16QAM	1	5	Low	22.22	PASS
Band12	10MHz	23095	16QAM	6	0	Low	22.08	PASS
Band12	10MHz	23130	16QAM	1	0	High	22.04	PASS
Band12	10MHz	23130	16QAM	1	5	High	22.21	PASS
Band12	10MHz	23130	16QAM	6	0	High	22.78	PASS





E.2 Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	8.67	<=13	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	9.16	<=13	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	9.52	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	8.35	<=13	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	9.74	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	8.89	<=13	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	9.33	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	8.82	<=13	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	7.48	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	9.44	<=13	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	10.16	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	8.85	<=13	PASS
Band12	3MHz	23025	QPSK	1	0	Low	8.08	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	Low	9.00	<=13	PASS
Band12	3MHz	23095	QPSK	1	0	Low	8.64	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Low	8.04	<=13	PASS
Band12	3MHz	23165	QPSK	1	0	High	8.95	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	High	7.65	<=13	PASS
Band12	3MHz	23025	16QAM	1	0	Low	9.63	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	Low	9.69	<=13	PASS
Band12	3MHz	23095	16QAM	1	0	Low	8.88	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Low	10.11	<=13	PASS
Band12	3MHz	23165	16QAM	1	0	High	9.92	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	High	9.66	<=13	PASS
Band12	5MHz	23035	QPSK	1	0	Low	9.05	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	Low	9.09	<=13	PASS
Band12	5MHz	23095	QPSK	1	0	Low	9.73	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	9.80	<=13	PASS
Band12	5MHz	23155	QPSK	1	0	High	9.41	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	High	9.71	<=13	PASS
Band12	5MHz	23035	16QAM	1	0	Low	9.69	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	Low	11.29	<=13	PASS
Band12	5MHz	23095	16QAM	1	0	Low	9.05	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Low	9.49	<=13	PASS
Band12	5MHz	23155	16QAM	1	0	High	8.72	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	High	10.32	<=13	PASS



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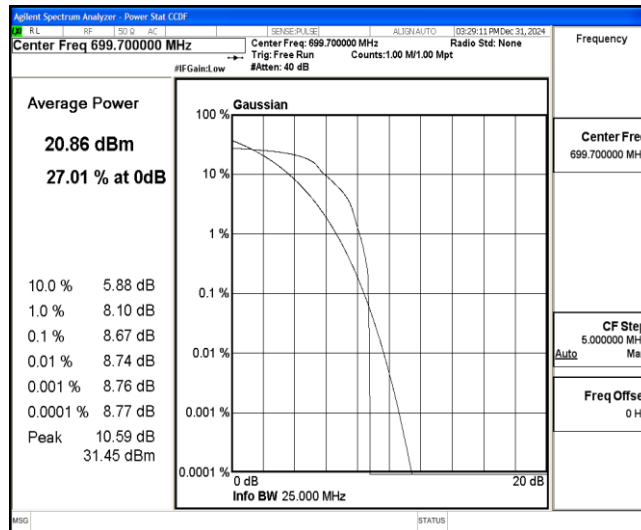


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Band12	10MHz	23060	QPSK	6	0	Low	8.49	<=13	PASS
Band12	10MHz	23095	QPSK	1	0	Low	9.51	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Low	9.35	<=13	PASS
Band12	10MHz	23130	QPSK	1	0	High	11.61	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	High	11.93	<=13	PASS
Band12	10MHz	23060	16QAM	1	0	Low	10.03	<=13	PASS
Band12	10MHz	23060	16QAM	6	0	Low	10.27	<=13	PASS
Band12	10MHz	23095	16QAM	1	0	Low	9.79	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	Low	8.38	<=13	PASS
Band12	10MHz	23130	16QAM	1	0	High	9.71	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	High	8.93	<=13	PASS

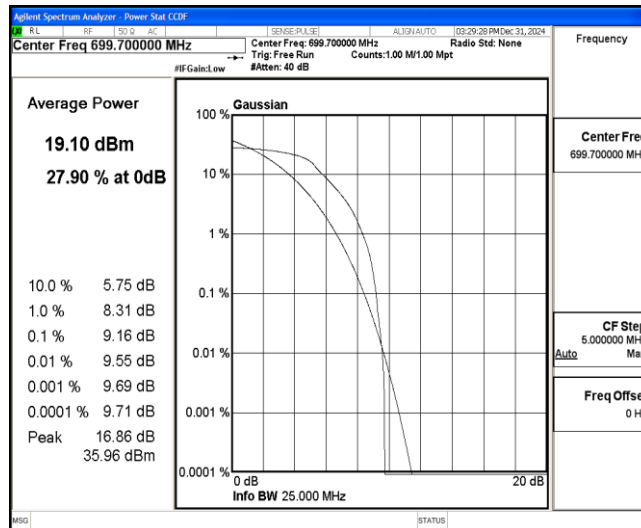




Test Graphs

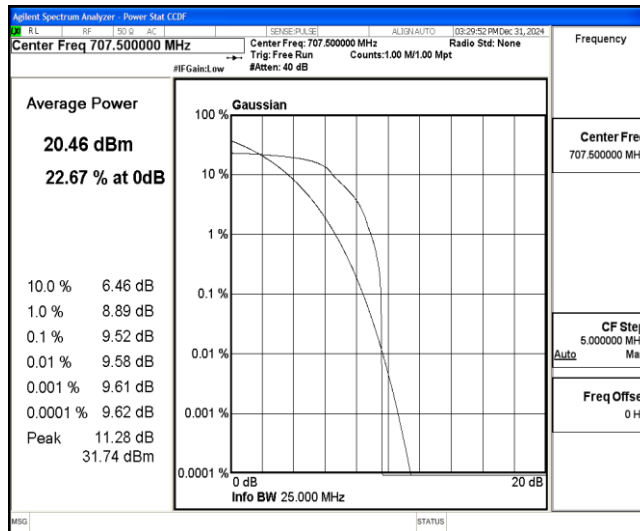


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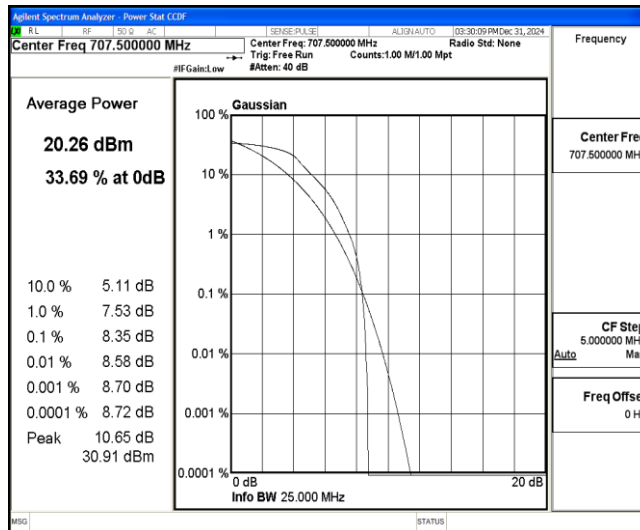


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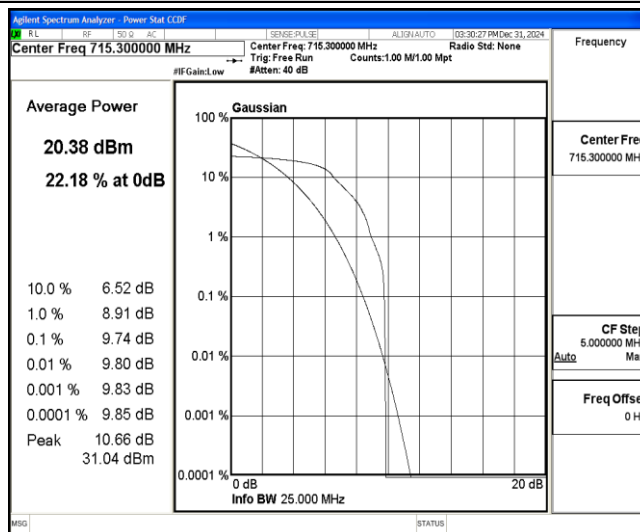




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Band12-1.4MHz-QPSK-23173-1-0-High-9.74-<=13-PASS

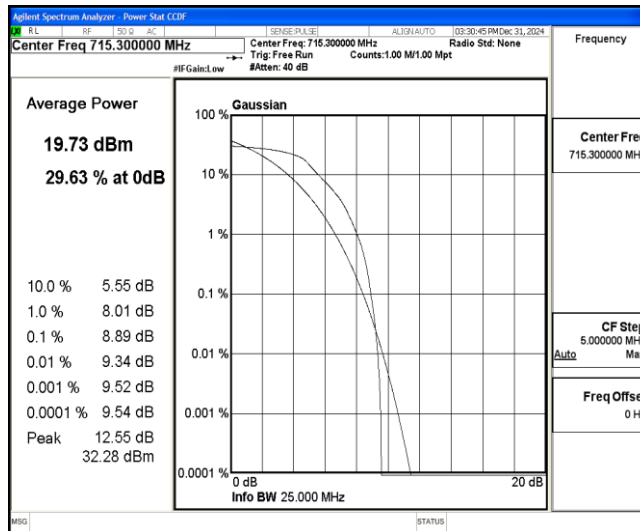


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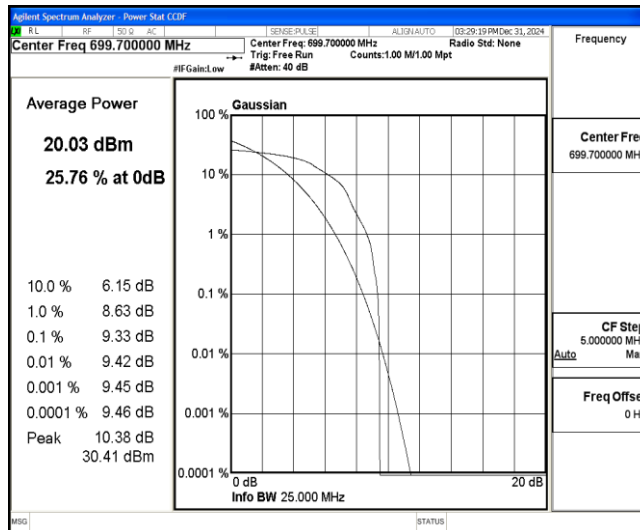
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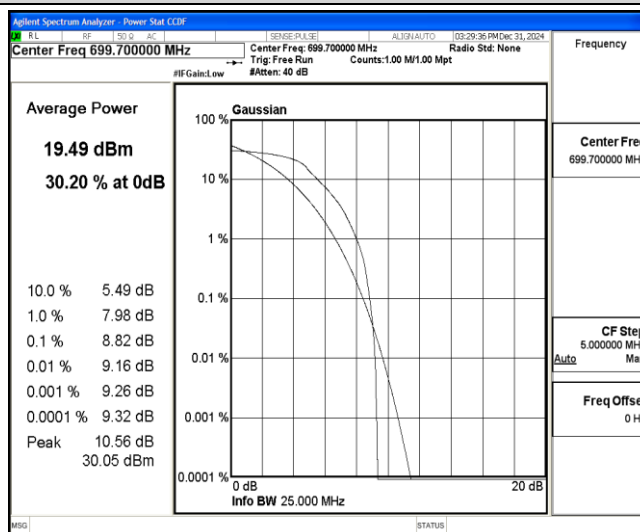
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Band12-1.4MHz-QPSK-23173-6-0-High-8.89-<=13-PASS



Band12-1.4MHz-16QAM-23017-1-0-Low-9.33-<=13-PASS



Band12-1.4MHz-16QAM-23017-6-0-Low-8.82-<=13-PASS

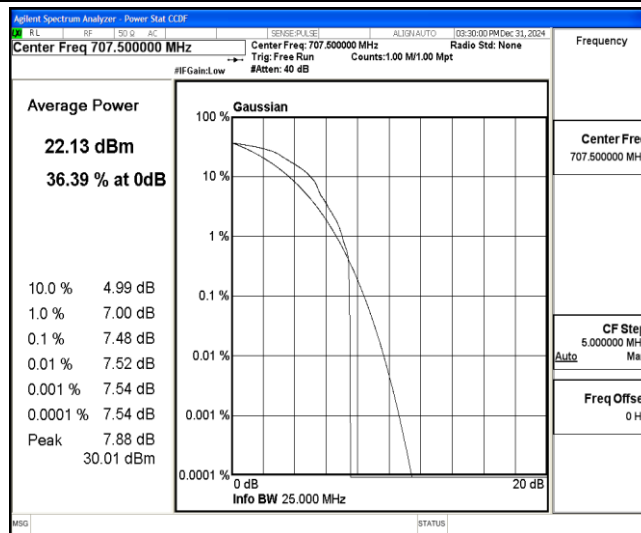


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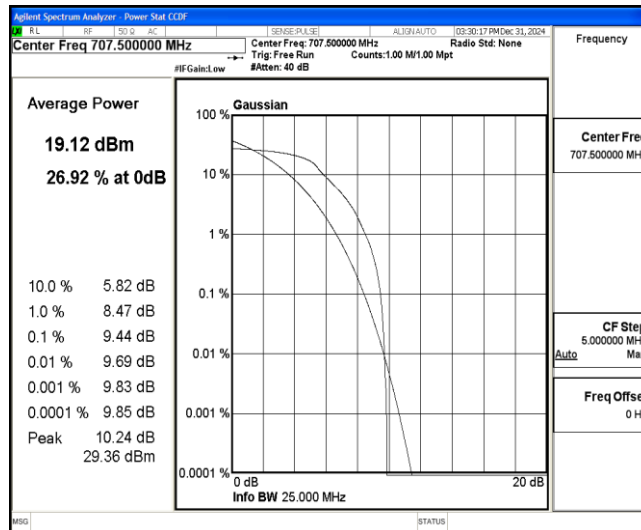
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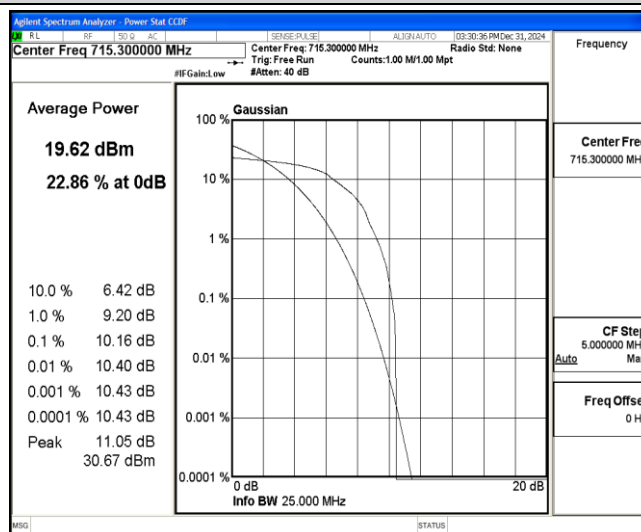
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Band12-1.4MHz-16QAM-23173-1-0-High-10.16-<=13-PASS

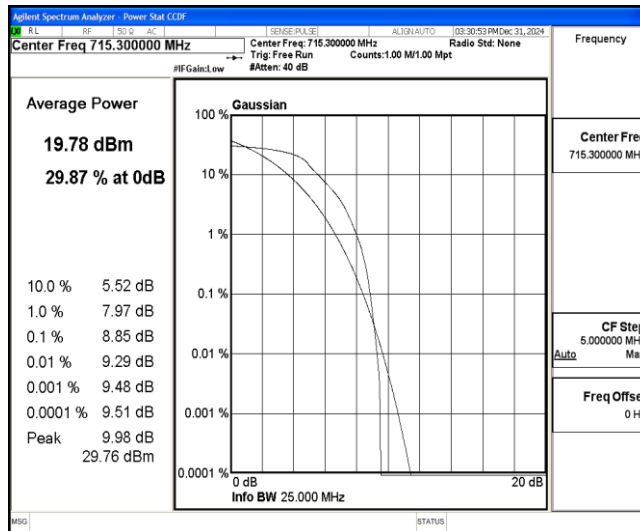


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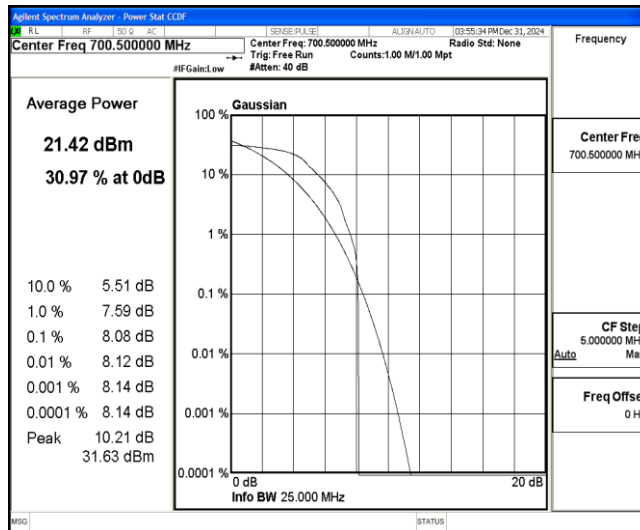
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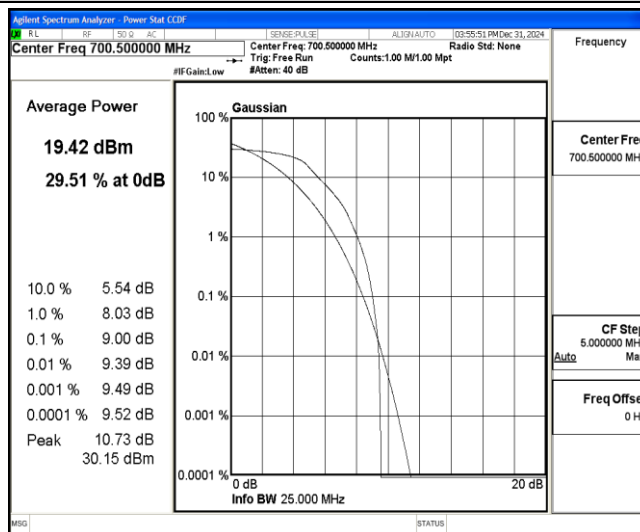
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Band12-3MHz-QPSK-23025-6-0-Low-9.00-<=13-PASS

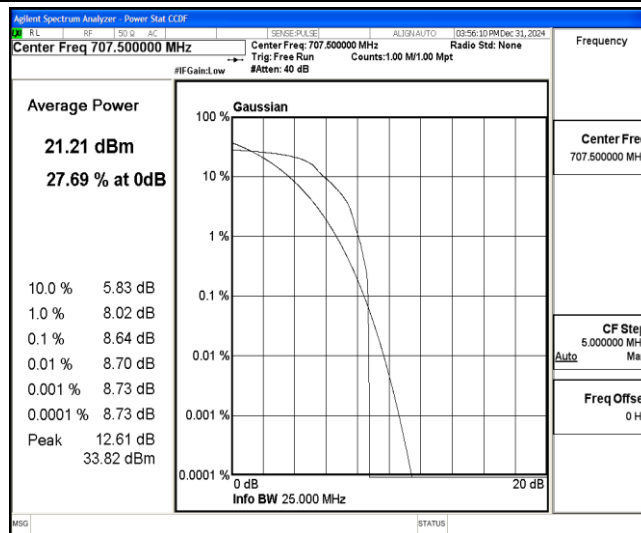


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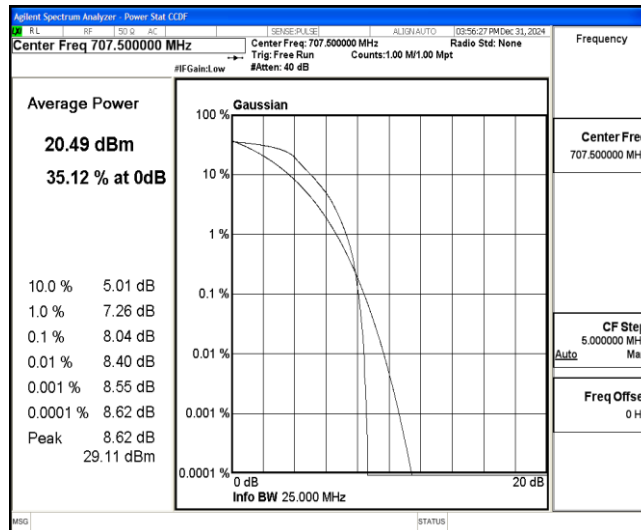
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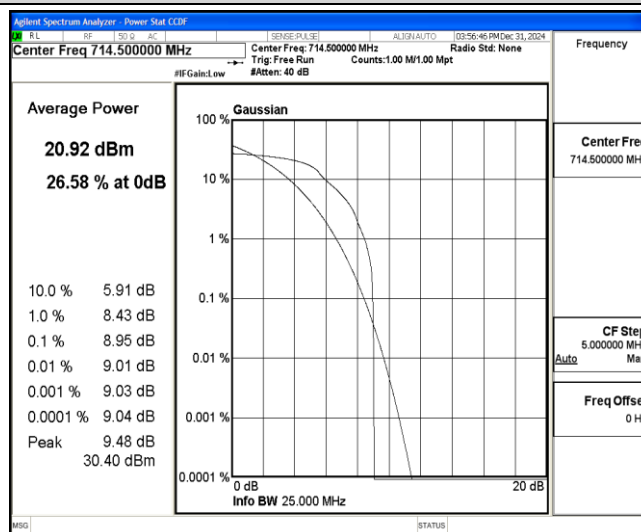
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Band12-3MHz-QPSK-23095-1-0-Low-8.64-<=13-PASS



Band12-3MHz-QPSK-23095-6-0-Low-8.04-<=13-PASS



Band12-3MHz-QPSK-23165-1-0-High-8.95-<=13-PASS

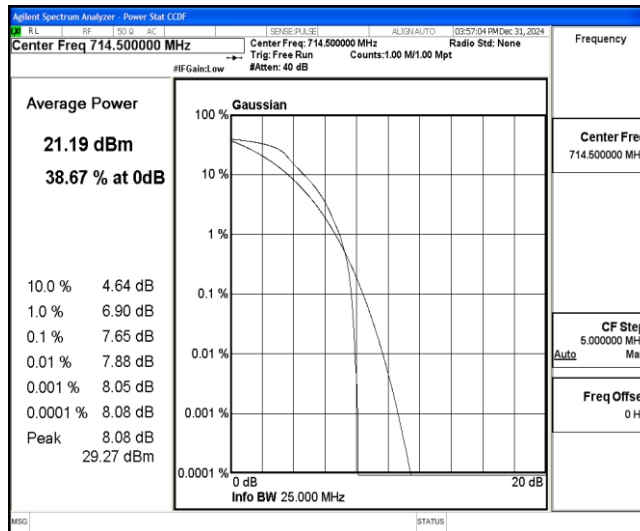


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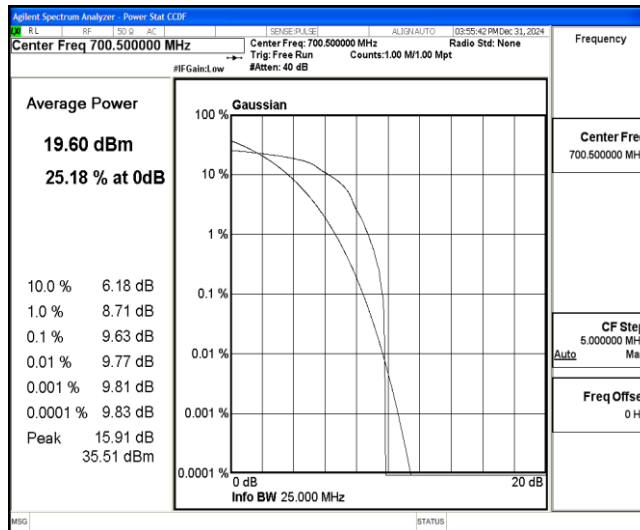
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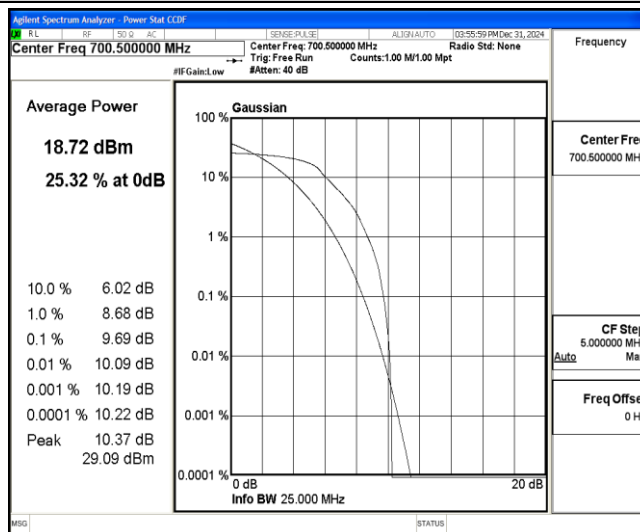
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Band12-3MHz-16QAM-23025-6-0-Low-9.69-<=13-PASS

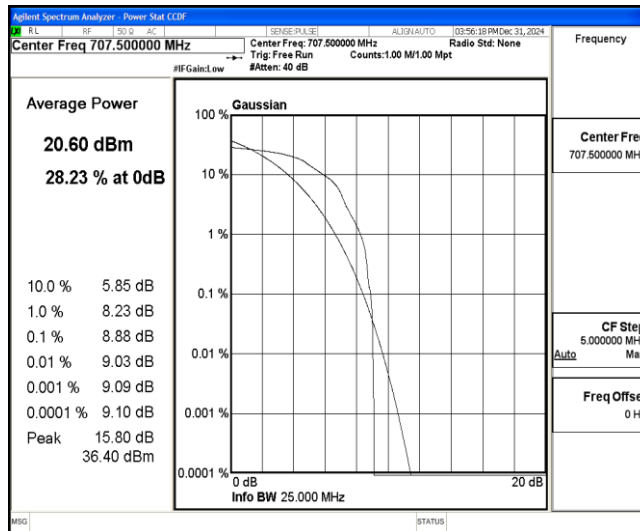


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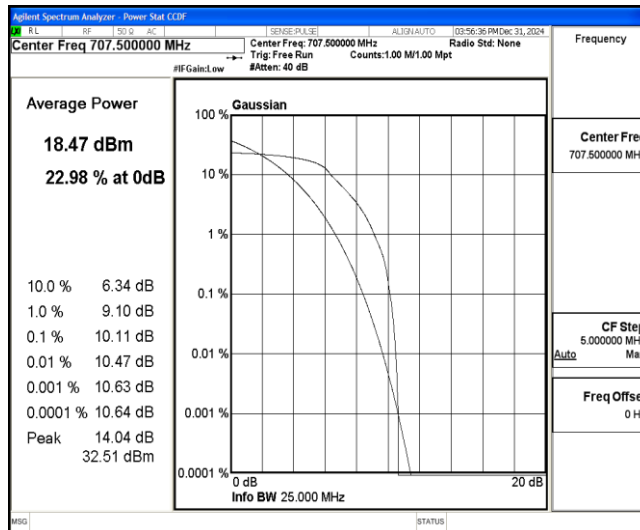
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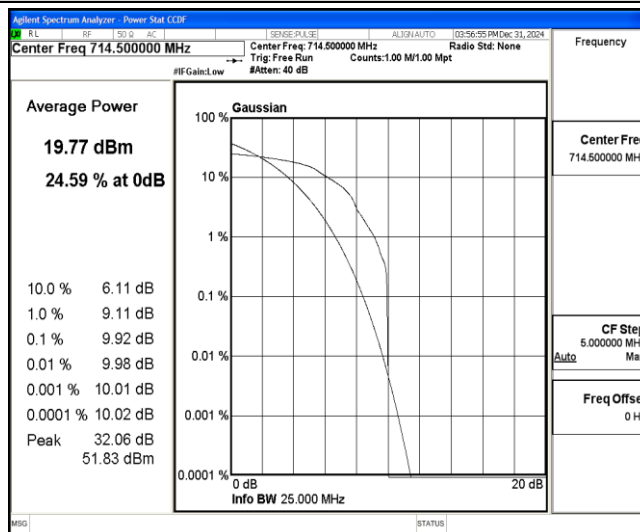
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Band12-3MHz-16QAM-23095-1-0-Low-8.88-<=13-PASS



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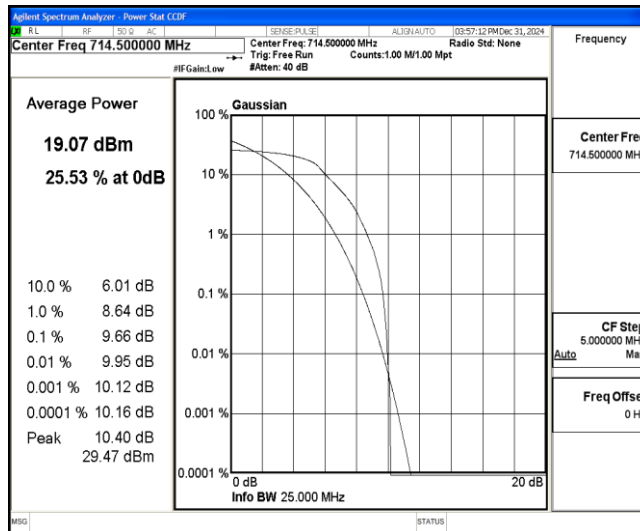


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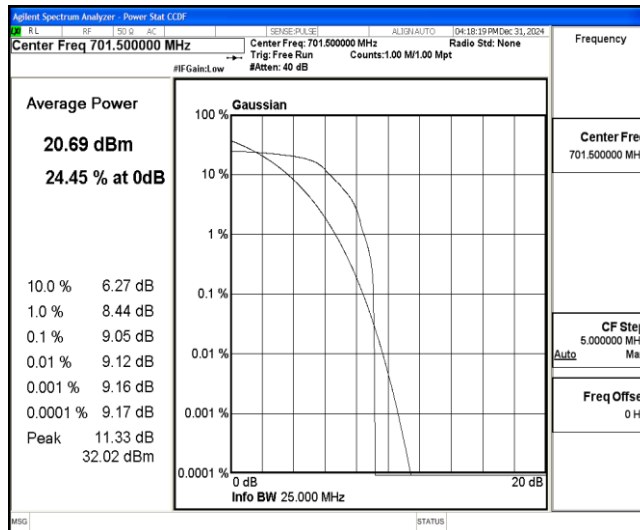
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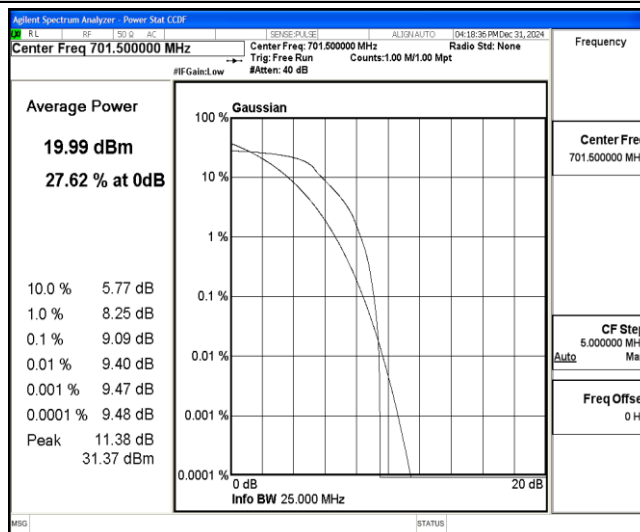
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Band12-3MHz-16QAM-23165-6-0-High-9.66-<=13-PASS



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Band12-5MHz-QPSK-23035-6-0-Low-9.09-<=13-PASS

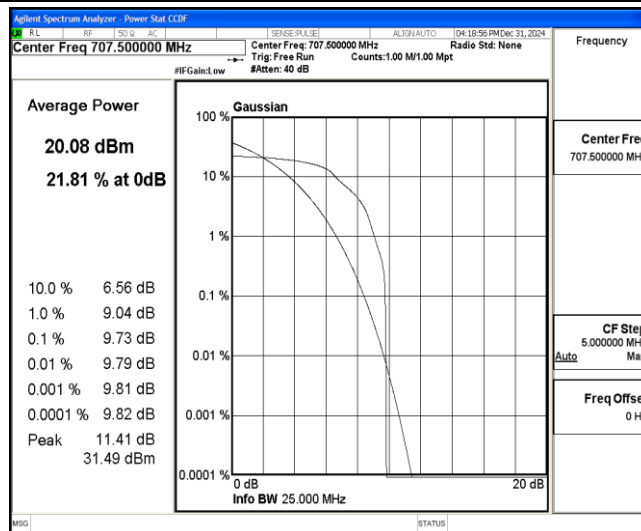


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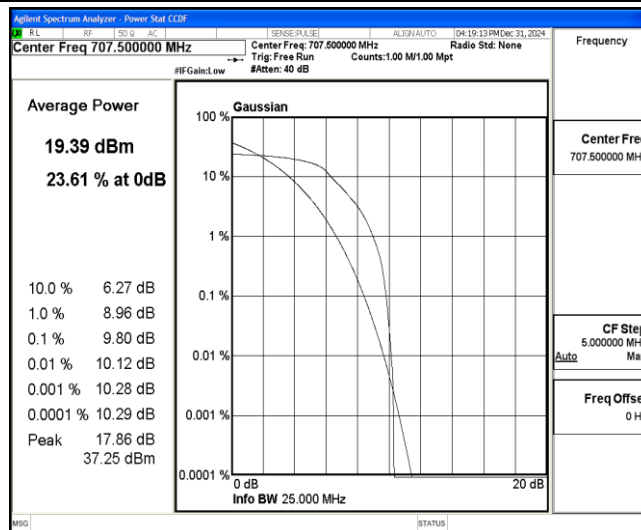
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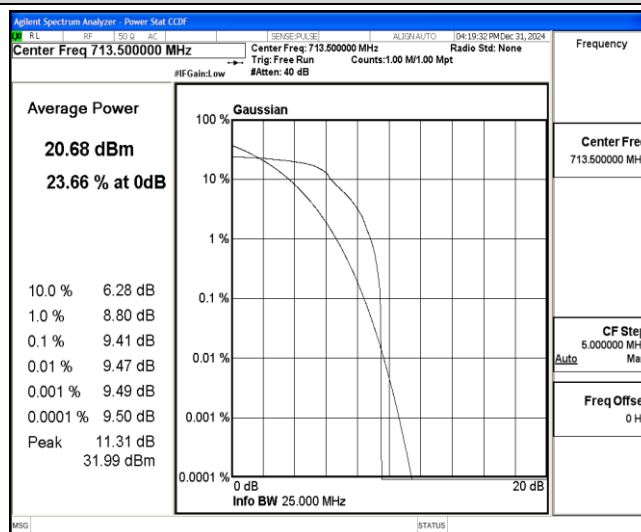
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Band12-5MHz-QPSK-23095-1-0-Low-9.73-<=13-PASS



Band12-5MHz-QPSK-23095-6-0-Low-9.80-<=13-PASS



Band12-5MHz-QPSK-23155-1-0-High-9.41-<=13-PASS

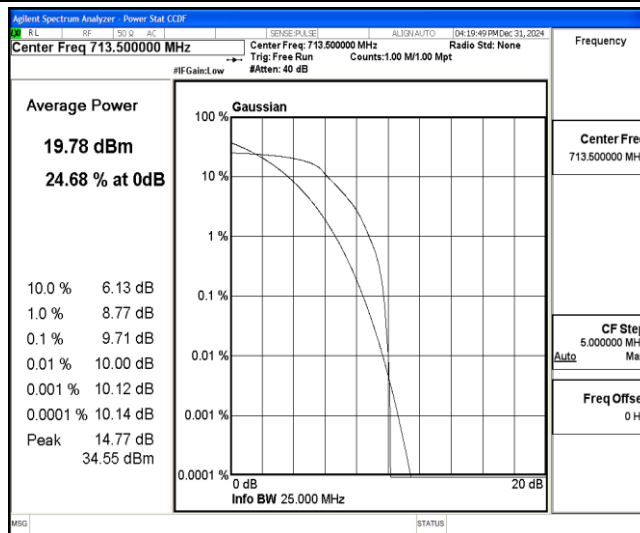


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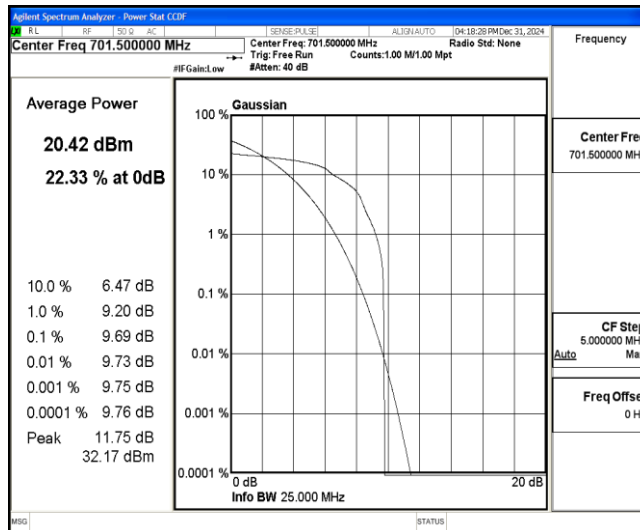
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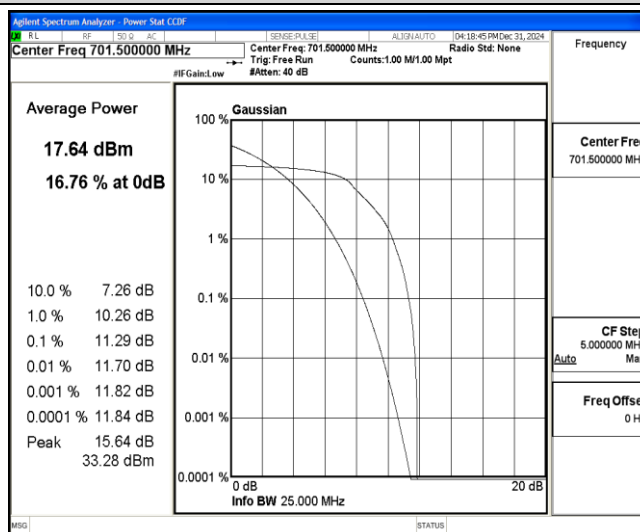
Scan code to check authenticity



Band12-5MHz-QPSK-23155-6-0-High-9.71-<=13-PASS



Band12-5MHz-16QAM-23035-1-0-Low-9.69-<=13-PASS



Band12-5MHz-16QAM-23035-6-0-Low-11.29-<=13-PASS

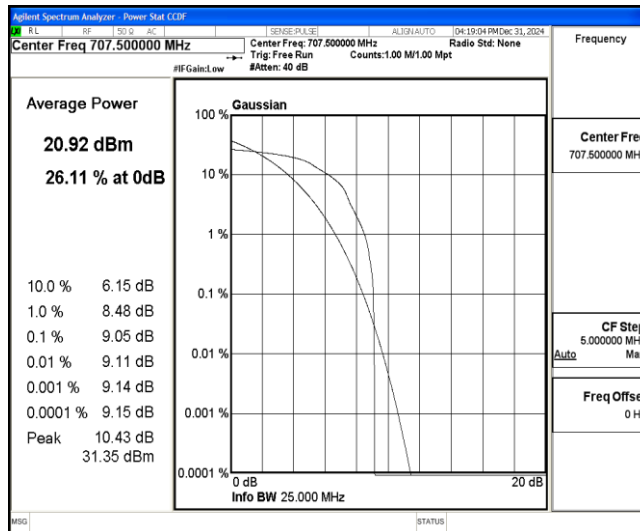


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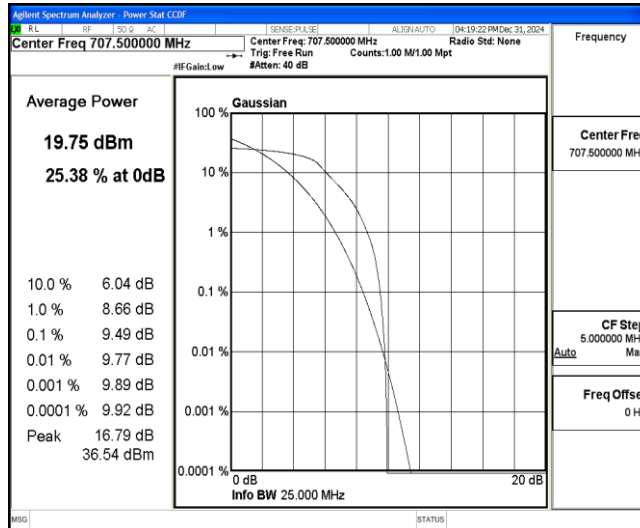
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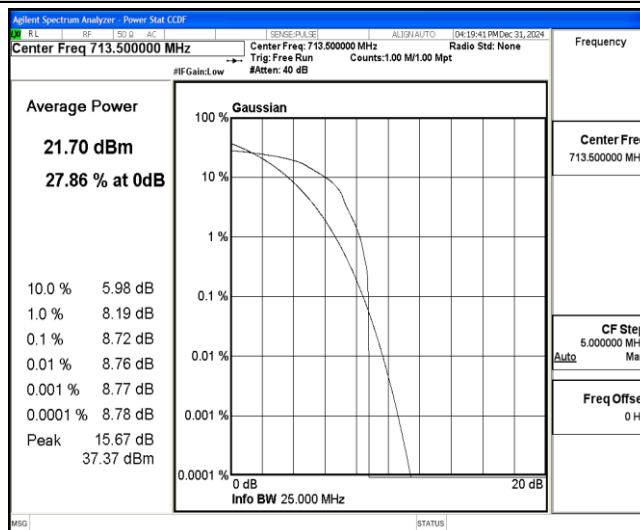
Scan code to check authenticity



Band12-5MHz-16QAM-23095-1-0-Low-9.05-<=13-PASS



Band12-5MHz-16QAM-23095-6-0-Low-9.49-<=13-PASS



Band12-5MHz-16QAM-23155-1-0-High-8.72-<=13-PASS

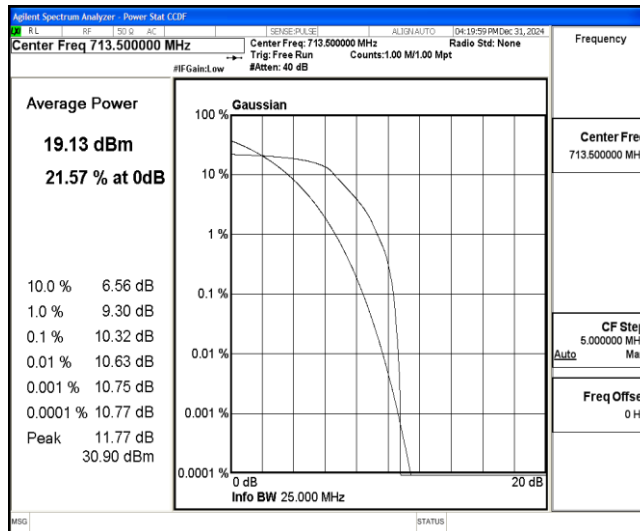


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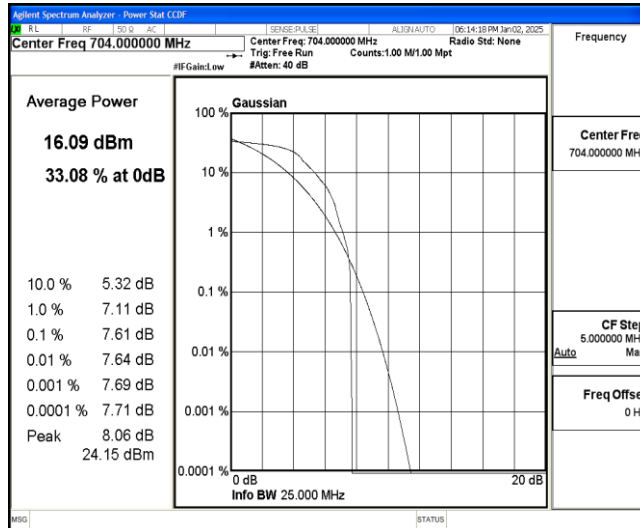
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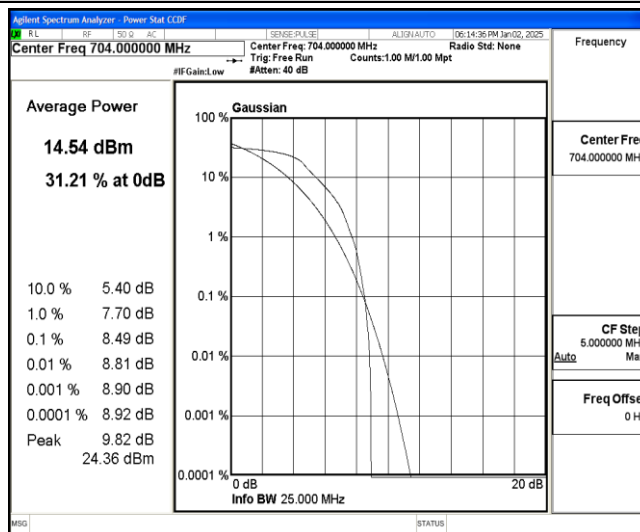
Scan code to check authenticity



Band12-5MHz-16QAM-23155-6-0-High-10.32-<=13-PASS



Band12-10MHz-QPSK-23060-1-0-Low-7.61-<=13-PASS



Band12-10MHz-QPSK-23060-6-0-Low-8.49-<=13-PASS

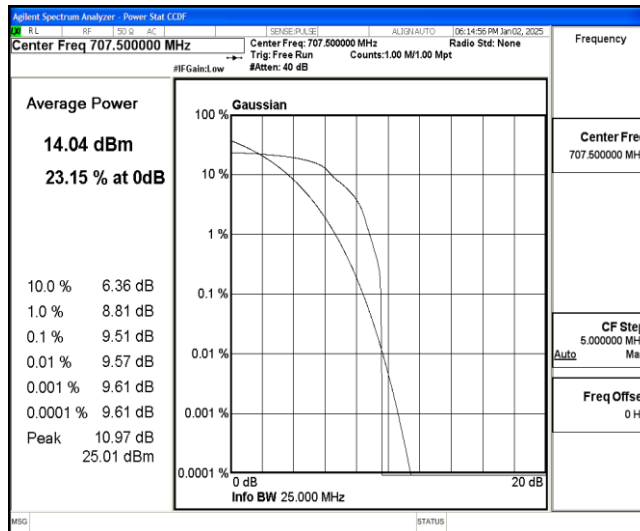


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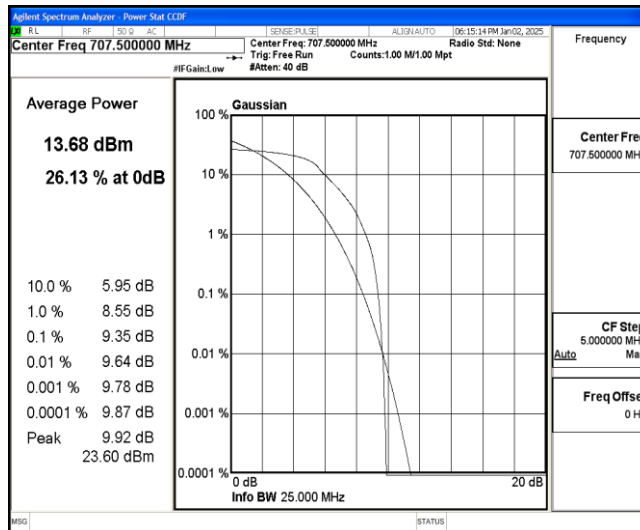
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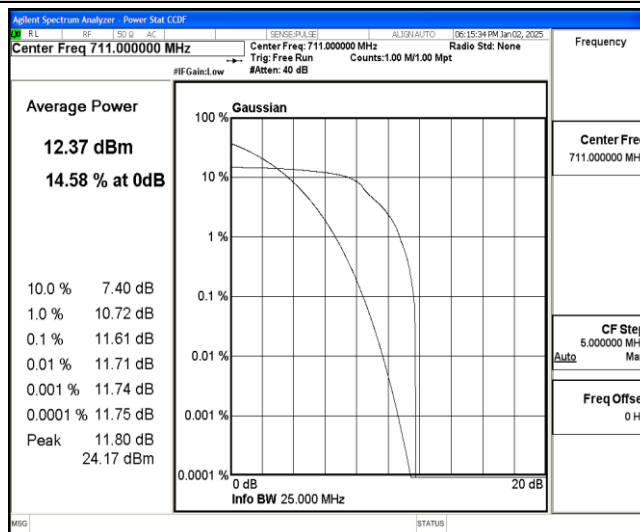
Scan code to check authenticity



Band12-10MHz-QPSK-23095-1-0-Low-9.51-<=13-PASS



Band12-10MHz-QPSK-23095-6-0-Low-9.35-<=13-PASS



Band12-10MHz-QPSK-23130-1-0-High-11.61-<=13-PASS

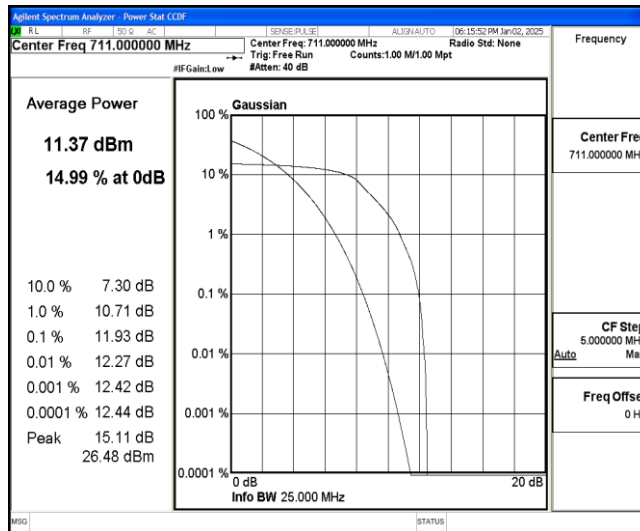


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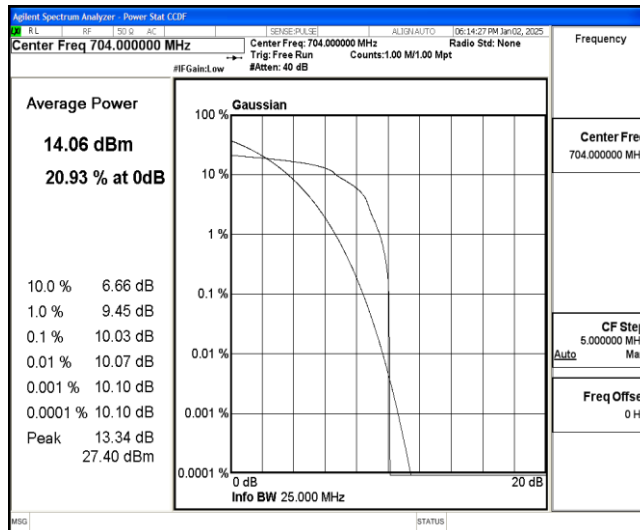
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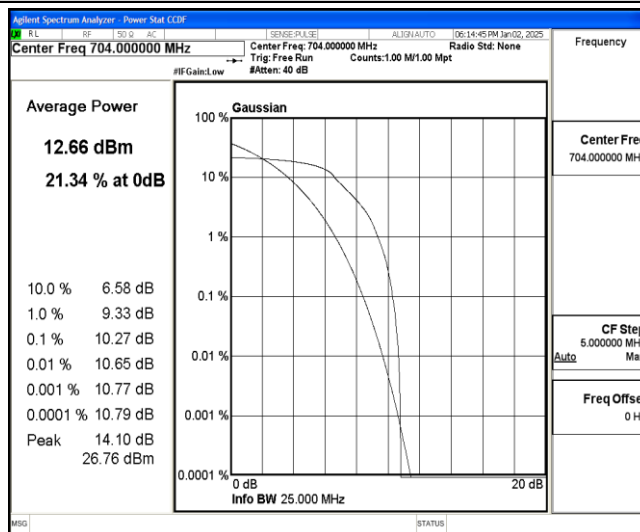
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Band12-10MHz-QPSK-23130-6-0-High-11.93-<=13-PASS



Band12-10MHz-16QAM-23060-1-0-Low-10.03-<=13-PASS



Band12-10MHz-16QAM-23060-6-0-Low-10.27-<=13-PASS

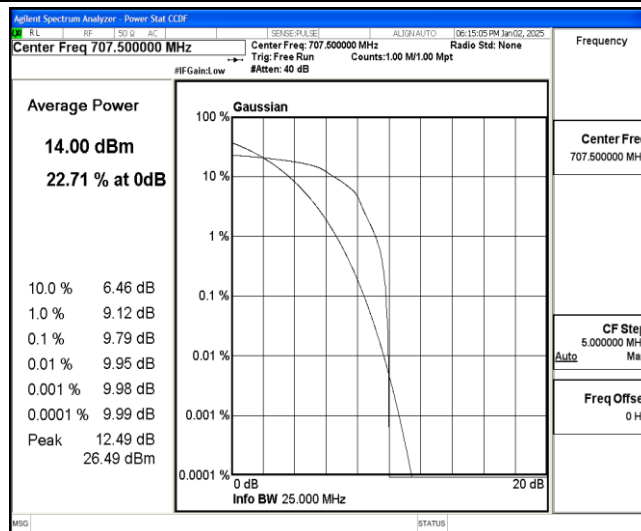


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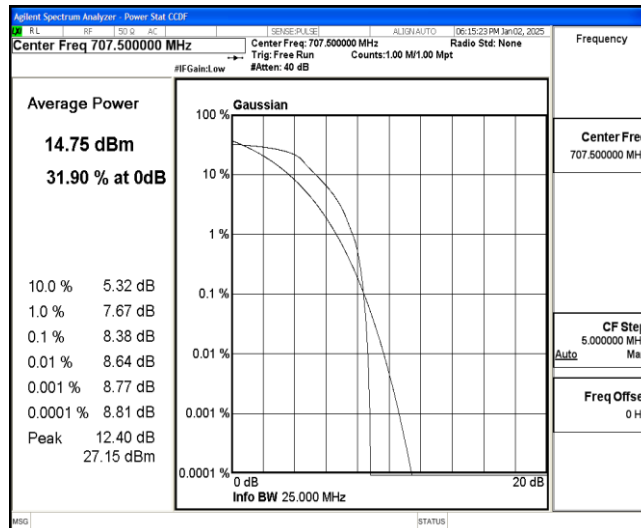
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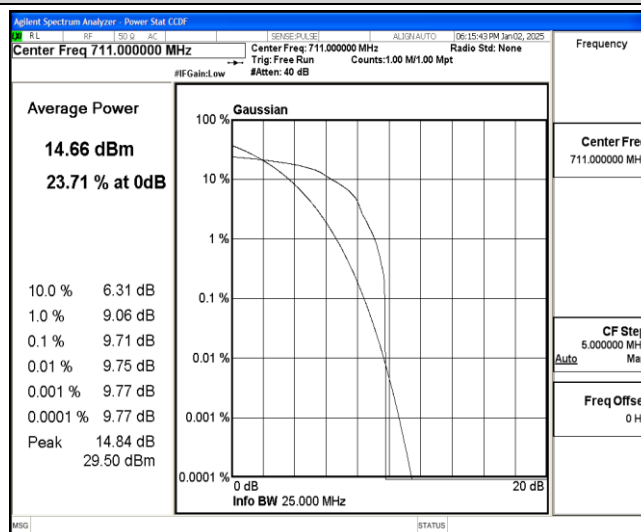
Scan code to check authenticity



Band12-10MHz-16QAM-23095-1-0-Low-9.79-<=13-PASS



Band12-10MHz-16QAM-23095-6-0-Low-8.38-<=13-PASS



Band12-10MHz-16QAM-23130-1-0-High-9.71-<=13-PASS

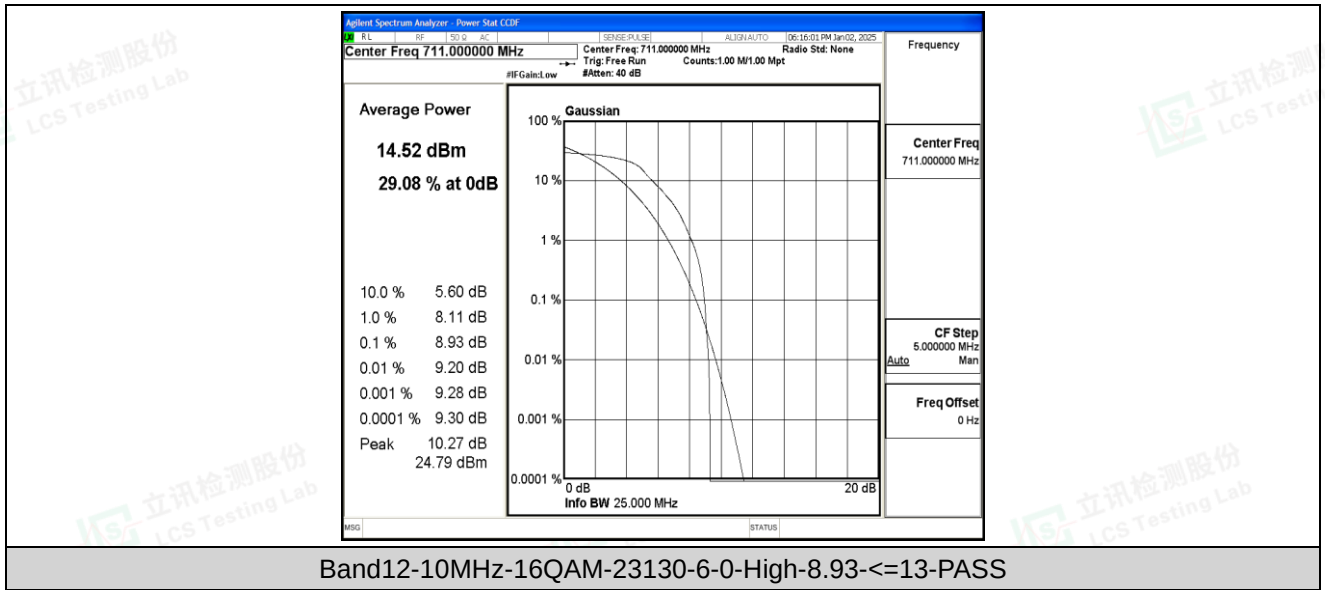


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E.3 26dB Bandwidth and Occupied Bandwidth for M1

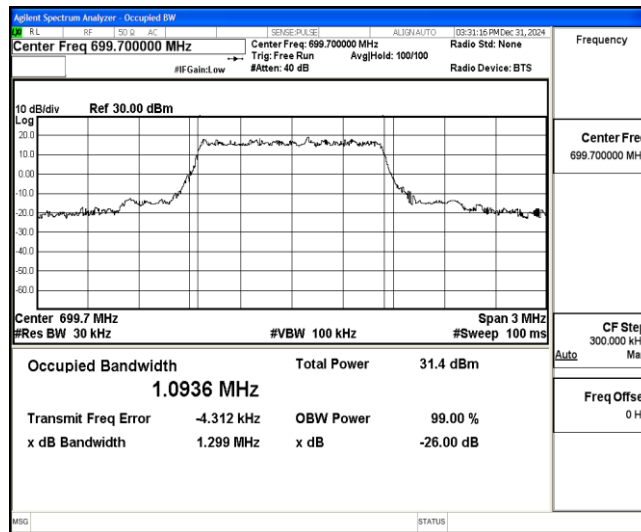
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	1.0936	1.299	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	1.1036	1.357	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.0988	1.320	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1.0966	1.264	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	1.1021	1.351	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	1.0960	1.313	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.1142	1.346	PASS
Band12	3MHz	23095	QPSK	6	0	Low	1.1105	1.325	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.1185	1.374	PASS
Band12	3MHz	23025	16QAM	6	0	Low	1.1159	1.402	PASS
Band12	3MHz	23095	16QAM	6	0	Low	1.1199	1.328	PASS
Band12	3MHz	23165	16QAM	6	0	High	1.1198	1.360	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.1852	1.436	PASS
Band12	5MHz	23095	QPSK	6	0	Low	1.1731	1.657	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.2032	1.466	PASS
Band12	5MHz	23035	16QAM	6	0	Low	1.1887	1.473	PASS
Band12	5MHz	23095	16QAM	6	0	Low	1.1709	1.614	PASS
Band12	5MHz	23155	16QAM	6	0	High	1.1732	1.424	PASS
Band12	10MHz	23060	QPSK	6	0	Low	1.3293	2.014	PASS
Band12	10MHz	23095	QPSK	6	0	Low	1.3543	2.170	PASS
Band12	10MHz	23130	QPSK	6	0	High	1.3459	2.141	PASS
Band12	10MHz	23060	16QAM	6	0	Low	1.3493	2.169	PASS
Band12	10MHz	23095	16QAM	6	0	Low	1.3556	2.139	PASS
Band12	10MHz	23130	16QAM	6	0	High	1.3430	1.958	PASS

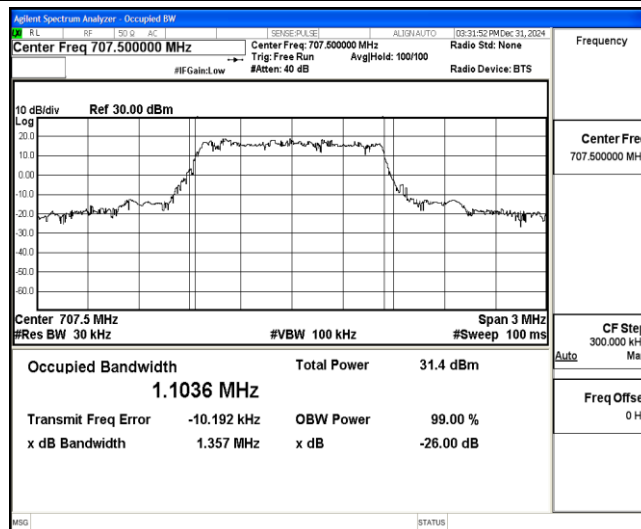




Test Graphs



Band12-1.4MHz-QPSK-23017-6-0-Low-1.0936-1.299-PASS



Band12-1.4MHz-QPSK-23095-6-0-Low-1.1036-1.357-PASS

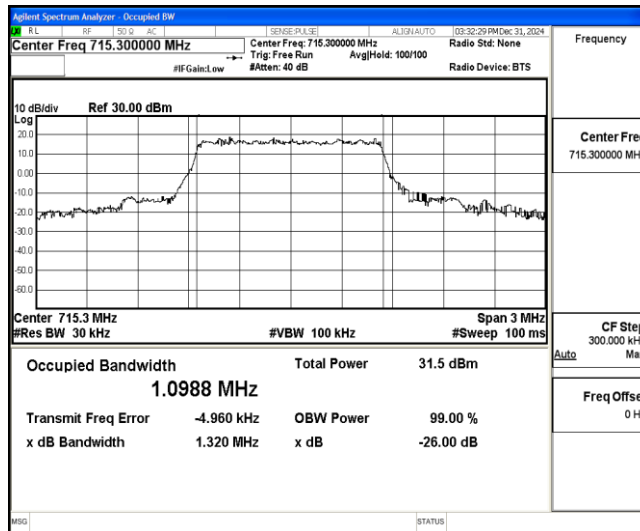


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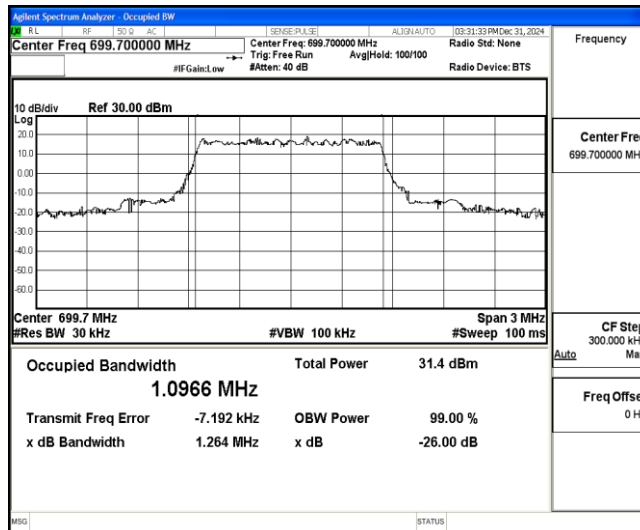
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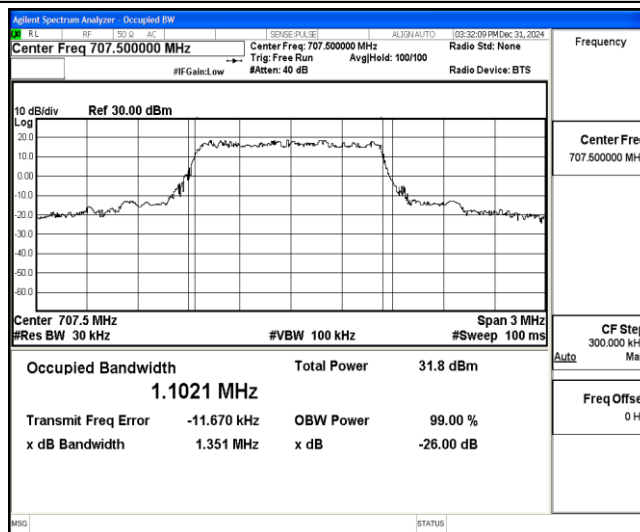
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Band12-1.4MHz-QPSK-23173-6-0-High-1.0988-1.320-PASS



Band12-1.4MHz-16QAM-23017-6-0-Low-1.0966-1.264-PASS



Band12-1.4MHz-16QAM-23095-6-0-Low-1.1021-1.351-PASS

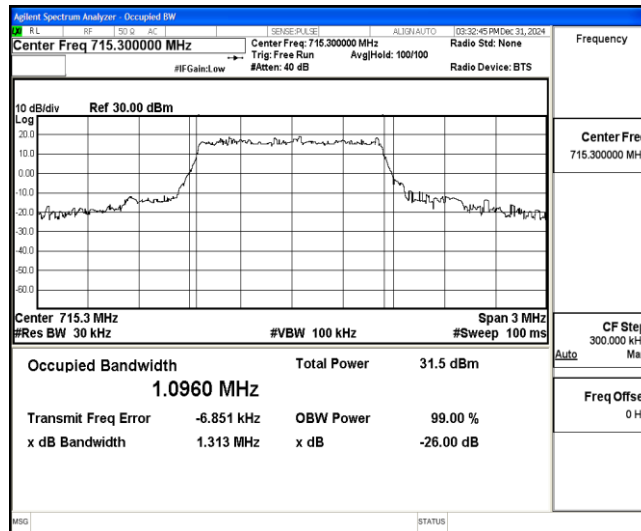


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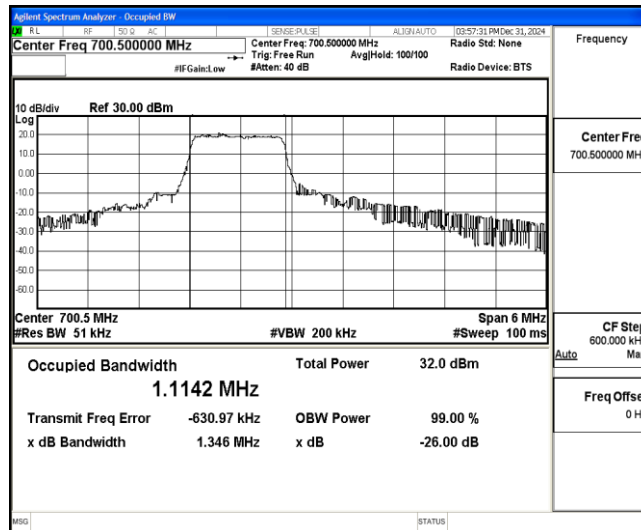
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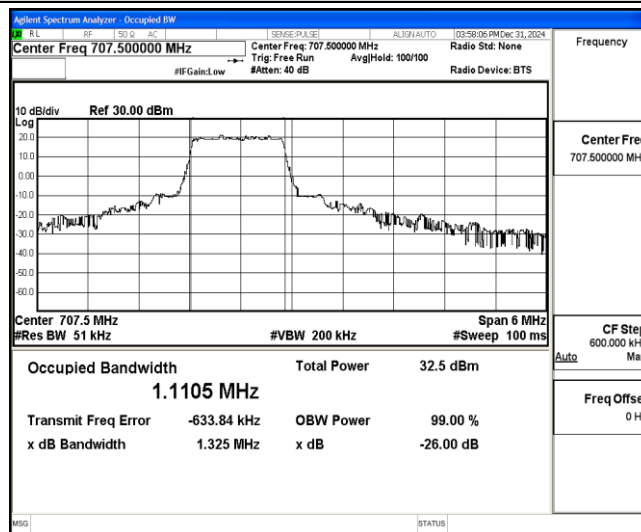
Scan code to check authenticity



Band12-1.4MHz-16QAM-23173-6-0-High-1.0960-1.313-PASS



Band12-3MHz-QPSK-23025-6-0-Low-1.1142-1.346-PASS



Band12-3MHz-QPSK-23095-6-0-Low-1.1105-1.325-PASS

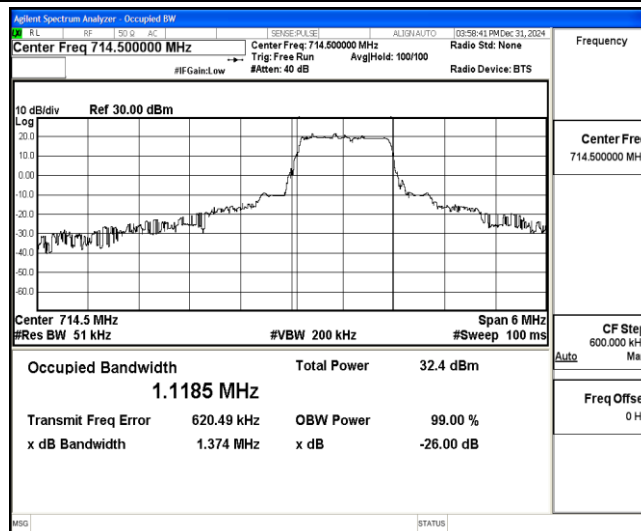


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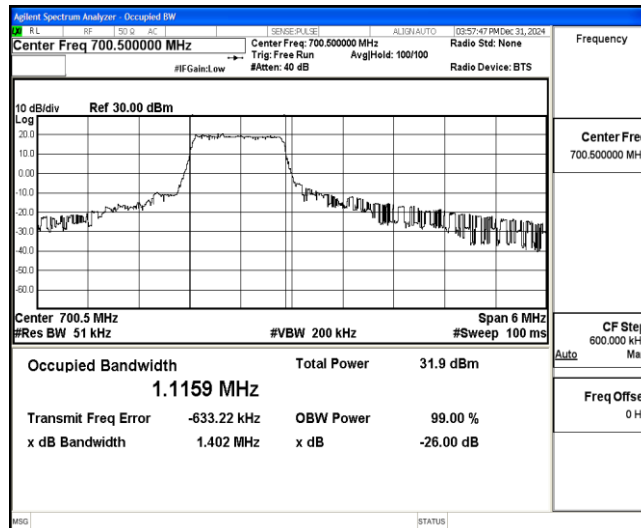
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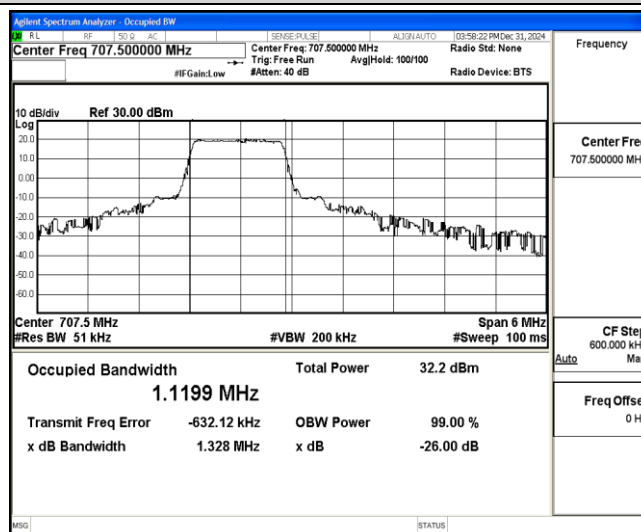
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Band12-3MHz-QPSK-23165-6-0-High-1.1185-1.374-PASS



Band12-3MHz-16QAM-23025-6-0-Low-1.1159-1.402-PASS



Band12-3MHz-16QAM-23095-6-0-Low-1.1199-1.328-PASS

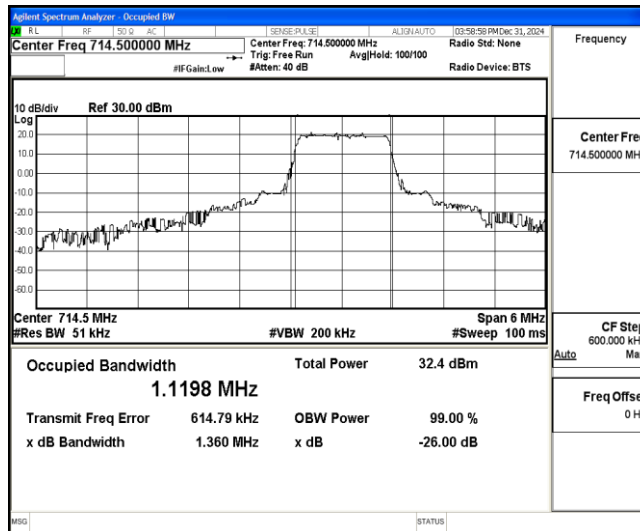


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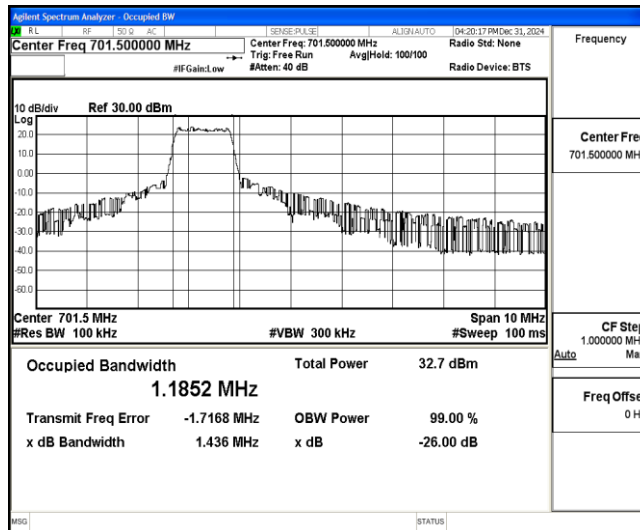
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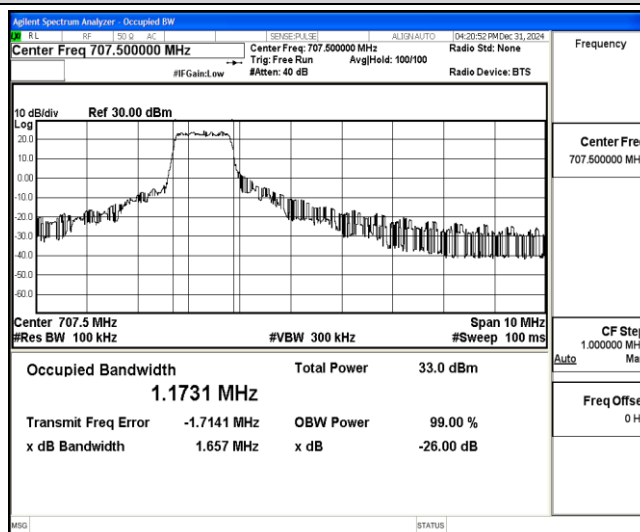
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Band12-3MHz-16QAM-23165-6-0-High-1.1198-1.360-PASS



Band12-5MHz-QPSK-23035-6-0-Low-1.1852-1.436-PASS



Band12-5MHz-QPSK-23095-6-0-Low-1.1731-1.657-PASS

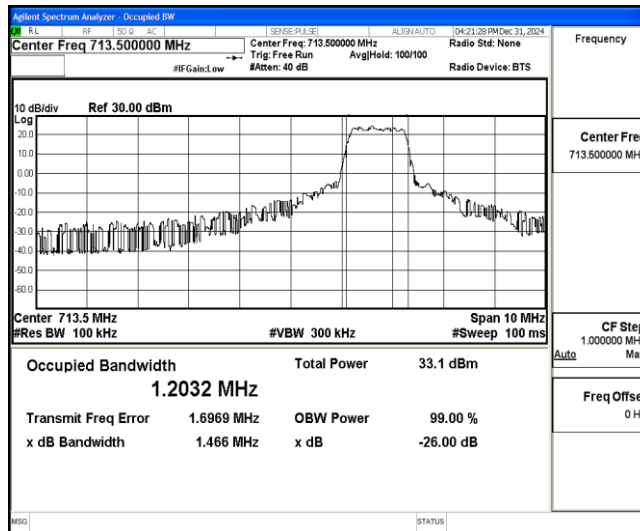


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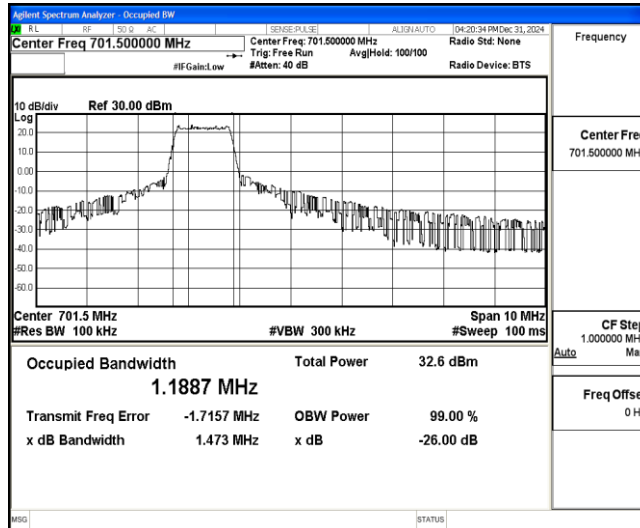
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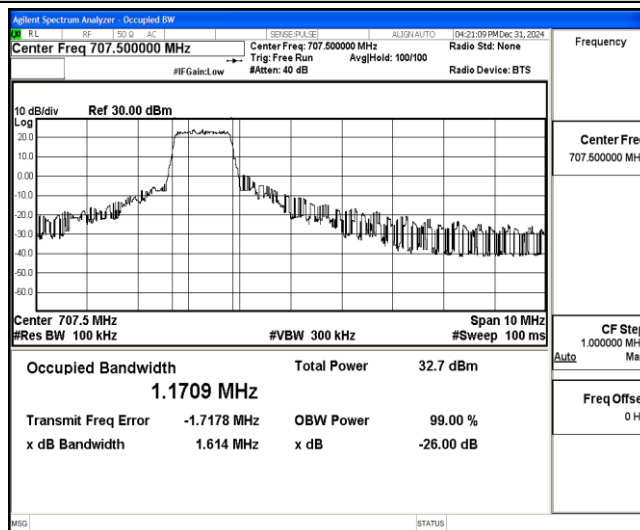
Scan code to check authenticity



Band12-5MHz-QPSK-23155-6-0-High-1.2032-1.466-PASS



Band12-5MHz-16QAM-23035-6-0-Low-1.1887-1.473-PASS



Band12-5MHz-16QAM-23095-6-0-Low-1.1709-1.614-PASS

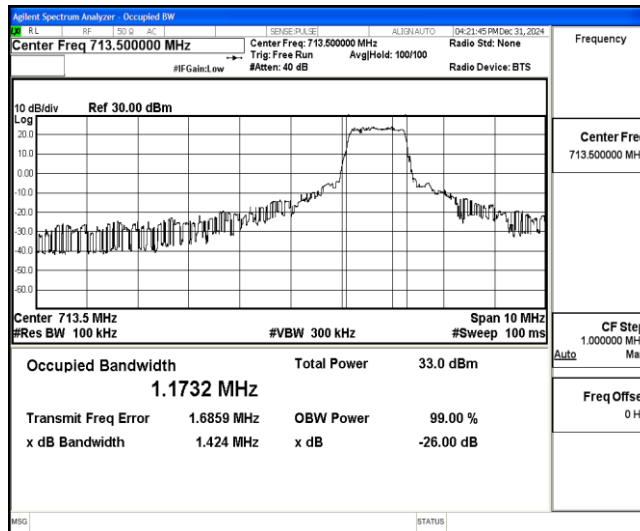


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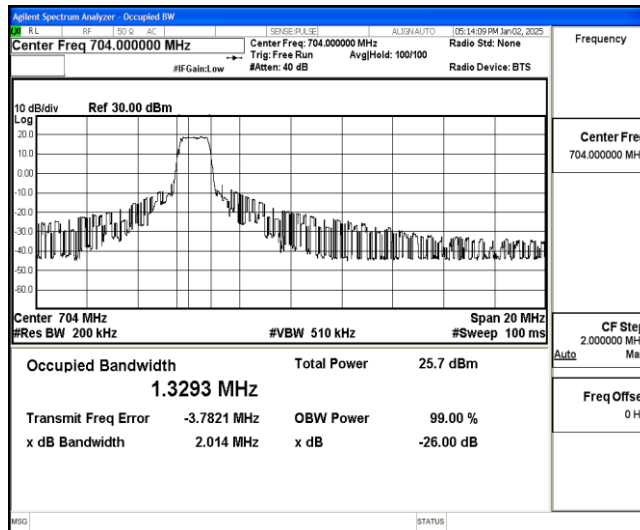
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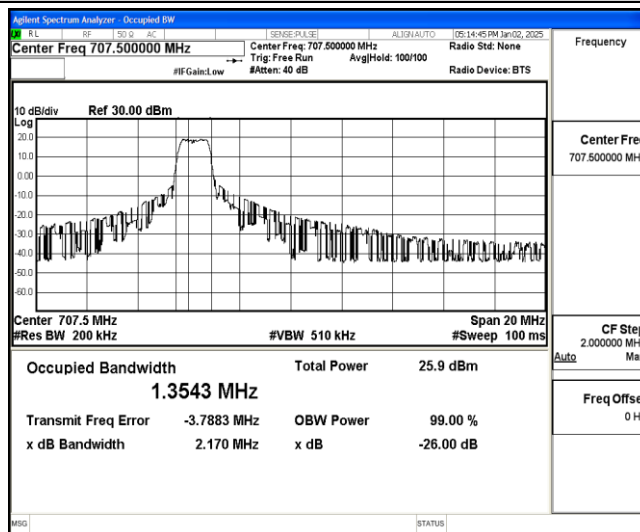
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Band12-5MHz-16QAM-23155-6-0-High-1.1732-1.424-PASS



Band12-10MHz-QPSK-23060-6-0-Low-1.3293-2.014-PASS



Band12-10MHz-QPSK-23095-6-0-Low-1.3543-2.170-PASS



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