



Appendix C Test Data for E-UTRA Band 12

Product Name: Andromeda

Test Model: ETCS2A-M2

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



C.1 Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Channel	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	21.23	PASS
Band12	1.4MHz	23017	QPSK	1	5	Low	21.45	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	19.16	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	20.91	PASS
Band12	1.4MHz	23095	QPSK	1	5	Middle	21.08	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	19.13	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	21.16	PASS
Band12	1.4MHz	23173	QPSK	1	5	High	21.21	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	18.98	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	19.65	PASS
Band12	1.4MHz	23017	16QAM	1	5	Low	19.88	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	19.18	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	20.44	PASS
Band12	1.4MHz	23095	16QAM	1	5	Middle	20.84	PASS
Band12	1.4MHz	23095	16QAM	6	0	Middle	19.11	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	20.05	PASS
Band12	1.4MHz	23173	16QAM	1	5	High	20.07	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	18.98	PASS
Band12	3MHz	23025	QPSK	1	0	Low	20.85	PASS
Band12	3MHz	23025	QPSK	1	5	Low	20.93	PASS
Band12	3MHz	23025	QPSK	6	0	Low	19.16	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	20.88	PASS
Band12	3MHz	23095	QPSK	1	5	Middle	20.99	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	19.16	PASS
Band12	3MHz	23165	QPSK	1	0	High	21.13	PASS
Band12	3MHz	23165	QPSK	1	5	High	21.17	PASS
Band12	3MHz	23165	QPSK	6	0	High	19.05	PASS
Band12	3MHz	23025	16QAM	1	0	Low	20.35	PASS
Band12	3MHz	23025	16QAM	1	5	Low	20.78	PASS
Band12	3MHz	23025	16QAM	6	0	Low	19.16	PASS
Band12	3MHz	23095	16QAM	1	0	Middle	20.36	PASS
Band12	3MHz	23095	16QAM	1	5	Middle	20.62	PASS
Band12	3MHz	23095	16QAM	6	0	Middle	19.16	PASS
Band12	3MHz	23165	16QAM	1	0	High	19.73	PASS
Band12	3MHz	23165	16QAM	1	5	High	19.78	PASS



Band12	3MHz	23165	16QAM	6	0	High	19.07	PASS
Band12	5MHz	23035	QPSK	1	0	Low	21.36	PASS
Band12	5MHz	23035	QPSK	1	5	Low	21.39	PASS
Band12	5MHz	23035	QPSK	6	0	Low	20.08	PASS
Band12	5MHz	23095	QPSK	1	0	Middle	20.90	PASS
Band12	5MHz	23095	QPSK	1	5	Middle	20.84	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	20.12	PASS
Band12	5MHz	23155	QPSK	1	0	High	20.97	PASS
Band12	5MHz	23155	QPSK	1	5	High	20.95	PASS
Band12	5MHz	23155	QPSK	6	0	High	19.99	PASS
Band12	5MHz	23035	16QAM	1	0	Low	21.21	PASS
Band12	5MHz	23035	16QAM	1	5	Low	21.01	PASS
Band12	5MHz	23035	16QAM	6	0	Low	20.08	PASS
Band12	5MHz	23095	16QAM	1	0	Middle	21.70	PASS
Band12	5MHz	23095	16QAM	1	5	Middle	21.86	PASS
Band12	5MHz	23095	16QAM	6	0	Middle	20.13	PASS
Band12	5MHz	23155	16QAM	1	0	High	20.91	PASS
Band12	5MHz	23155	16QAM	1	5	High	20.89	PASS
Band12	5MHz	23155	16QAM	6	0	High	19.99	PASS
Band12	10MHz	23060	QPSK	1	0	Low	21.36	PASS
Band12	10MHz	23060	QPSK	1	5	Low	21.45	PASS
Band12	10MHz	23060	QPSK	6	0	Low	20.19	PASS
Band12	10MHz	23095	QPSK	1	0	Middle	20.79	PASS
Band12	10MHz	23095	QPSK	1	5	Middle	21.02	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	20.13	PASS
Band12	10MHz	23130	QPSK	1	0	High	20.99	PASS
Band12	10MHz	23130	QPSK	1	5	High	21.37	PASS
Band12	10MHz	23130	QPSK	6	0	High	20.08	PASS
Band12	10MHz	23060	16QAM	1	0	Low	21.26	PASS
Band12	10MHz	23060	16QAM	1	5	Low	21.30	PASS
Band12	10MHz	23060	16QAM	6	0	Low	20.19	PASS
Band12	10MHz	23095	16QAM	1	0	Middle	21.69	PASS
Band12	10MHz	23095	16QAM	1	5	Middle	21.68	PASS
Band12	10MHz	23095	16QAM	6	0	Middle	20.12	PASS
Band12	10MHz	23130	16QAM	1	0	High	20.91	PASS
Band12	10MHz	23130	16QAM	1	5	High	21.14	PASS
Band12	10MHz	23130	16QAM	6	0	High	19.99	PASS



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

Test Result

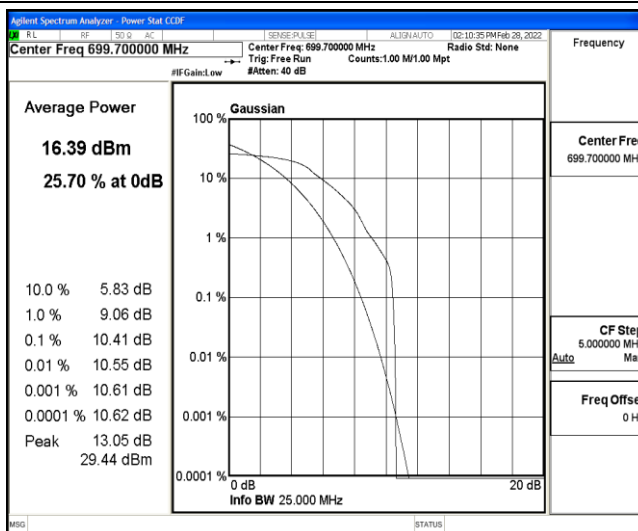
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Channel	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	10.41	<=13	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	10.75	<=13	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	10.83	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	10.95	<=13	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	9.22	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	9.61	<=13	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	9.80	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	11.21	<=13	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	10.86	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	Middle	10.70	<=13	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	12.05	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	11.64	<=13	PASS
Band12	3MHz	23025	QPSK	1	0	Low	10.69	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	Low	10.12	<=13	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	10.79	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	9.74	<=13	PASS
Band12	3MHz	23165	QPSK	1	0	High	10.94	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	High	12.91	<=13	PASS
Band12	3MHz	23025	16QAM	1	0	Low	10.70	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	Low	9.40	<=13	PASS
Band12	3MHz	23095	16QAM	1	0	Middle	11.04	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Middle	11.26	<=13	PASS
Band12	3MHz	23165	16QAM	1	0	High	12.75	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	High	9.43	<=13	PASS
Band12	5MHz	23035	QPSK	1	0	Low	10.63	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	Low	10.08	<=13	PASS
Band12	5MHz	23095	QPSK	1	0	Middle	11.99	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	11.36	<=13	PASS
Band12	5MHz	23155	QPSK	1	0	High	10.92	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	High	10.23	<=13	PASS
Band12	5MHz	23035	16QAM	1	0	Low	11.87	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	Low	12.45	<=13	PASS
Band12	5MHz	23095	16QAM	1	0	Middle	9.76	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Middle	10.73	<=13	PASS



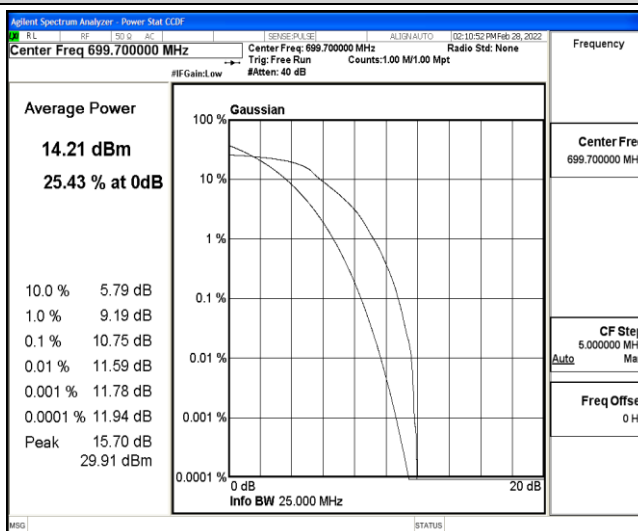
Band12	5MHz	23155	16QAM	1	0	High	10.41	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	High	10.50	<=13	PASS
Band12	10MHz	23060	QPSK	1	0	Low	11.37	<=13	PASS
Band12	10MHz	23060	QPSK	6	0	Low	11.74	<=13	PASS
Band12	10MHz	23095	QPSK	1	0	Middle	10.83	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	9.60	<=13	PASS
Band12	10MHz	23130	QPSK	1	0	High	11.08	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	High	10.56	<=13	PASS
Band12	10MHz	23060	16QAM	1	0	Low	10.19	<=13	PASS
Band12	10MHz	23060	16QAM	6	0	Low	9.80	<=13	PASS
Band12	10MHz	23095	16QAM	1	0	Middle	10.58	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	Middle	9.41	<=13	PASS
Band12	10MHz	23130	16QAM	1	0	High	11.60	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	High	10.85	<=13	PASS



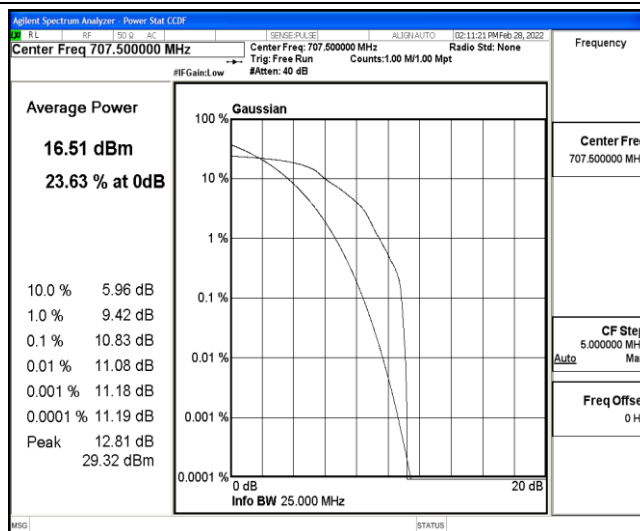
Test Graphs



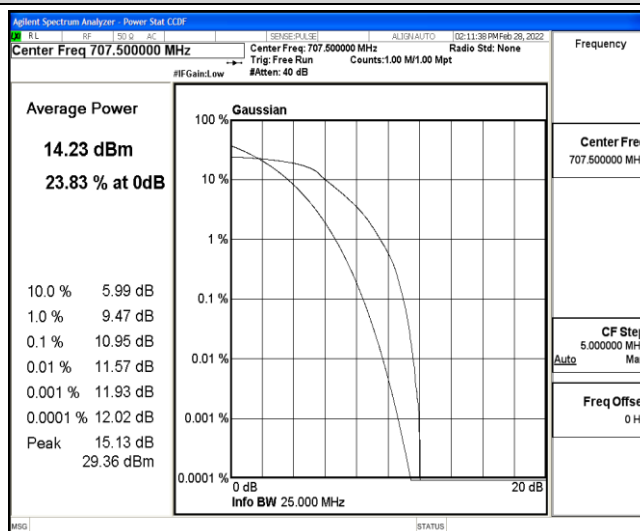
Band12-1.4MHz-QPSK-23017-1-0-Low-10.41-<=13-PASS



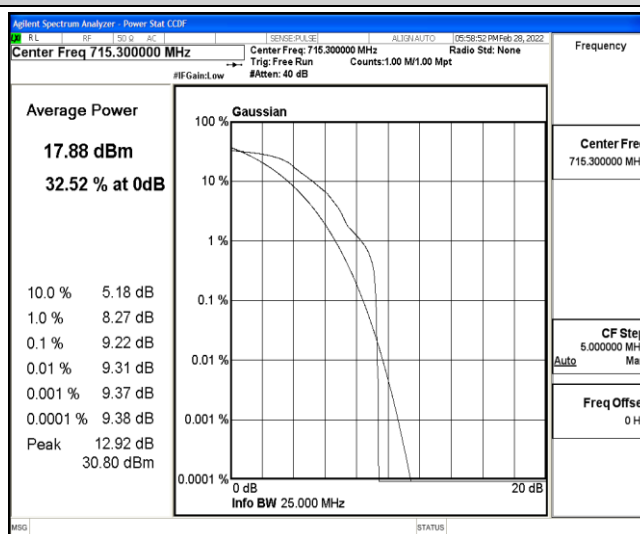
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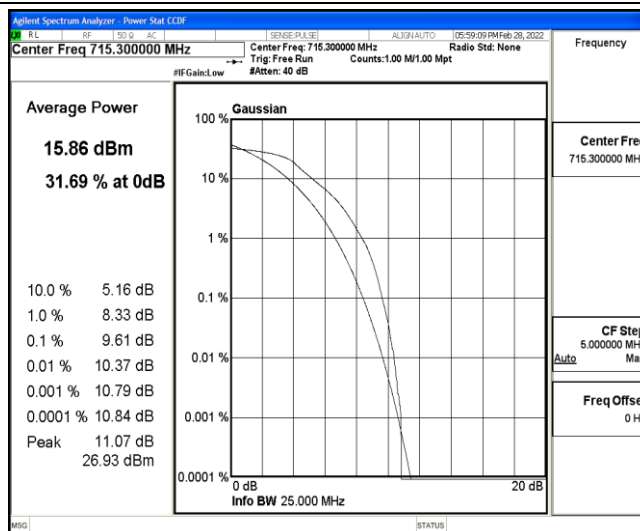
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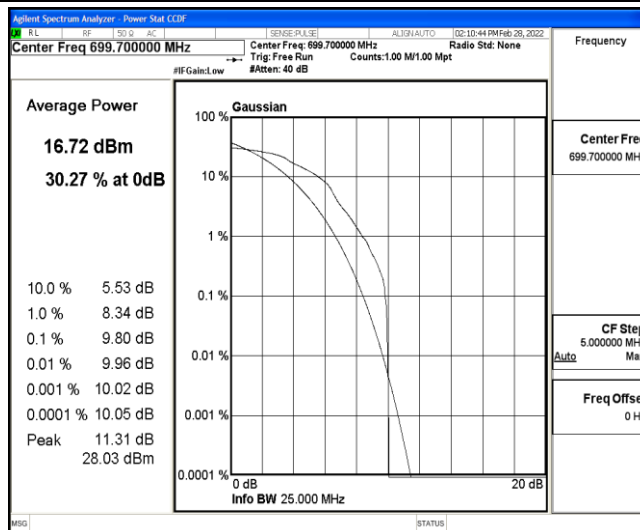
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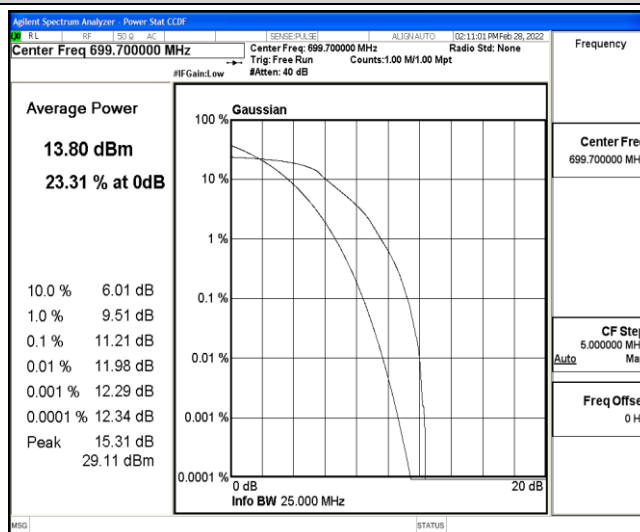
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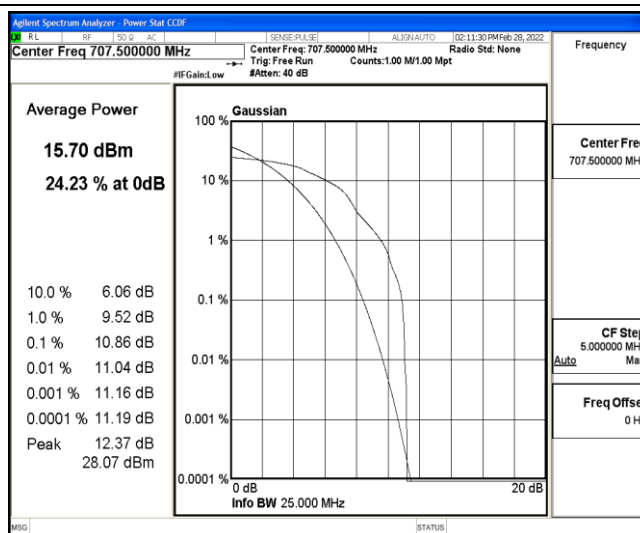
Band12-1.4MHz-QPSK-23173-6-0-High-9.61-<=13-PASS



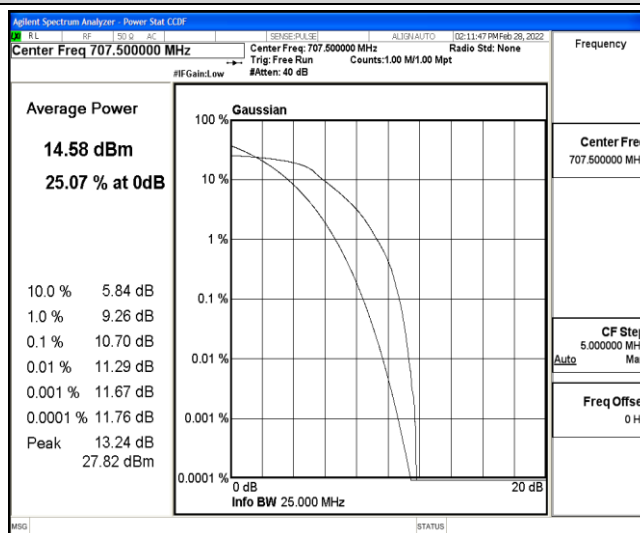
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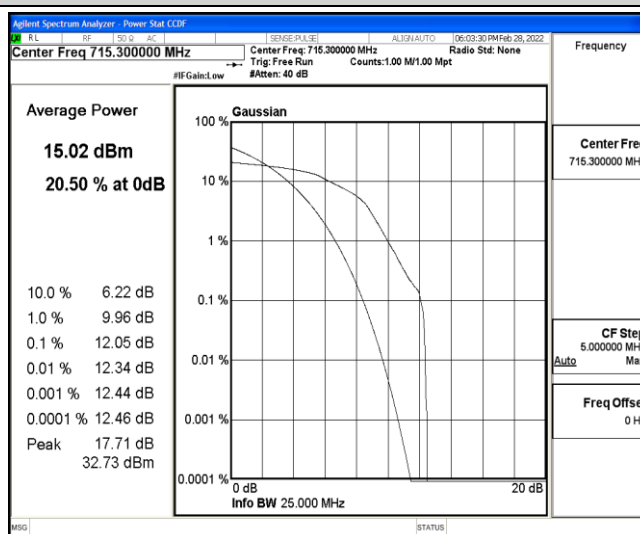
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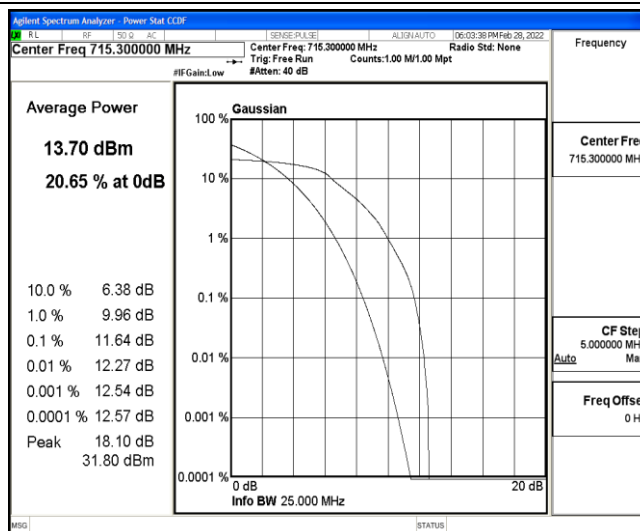
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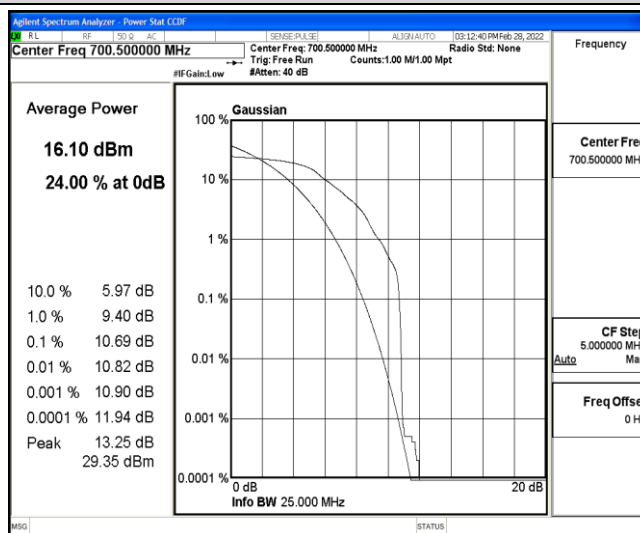
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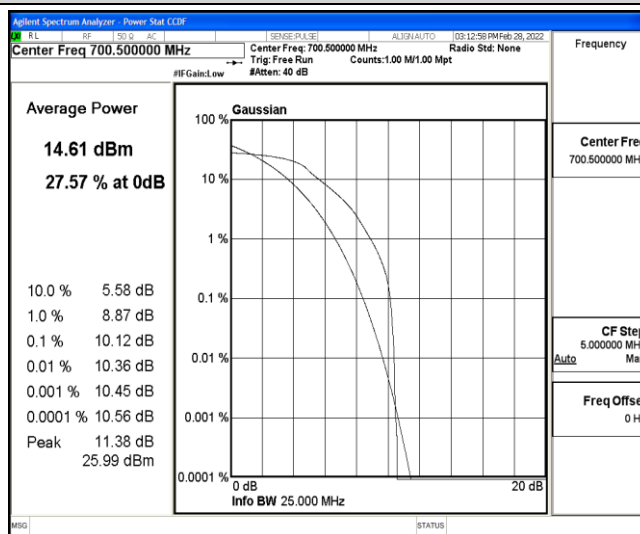
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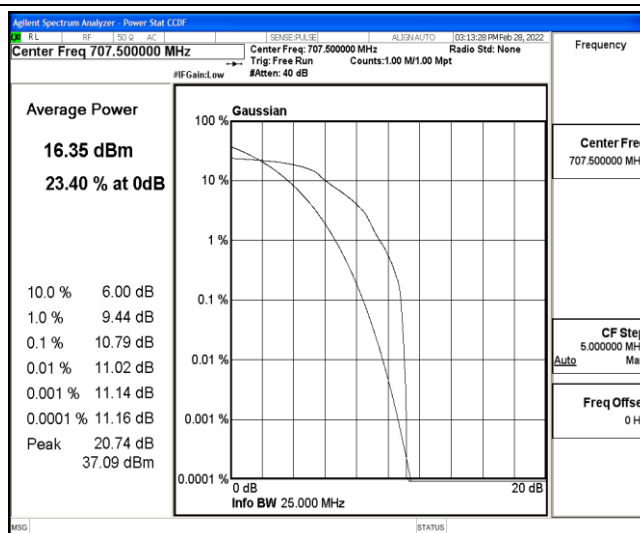
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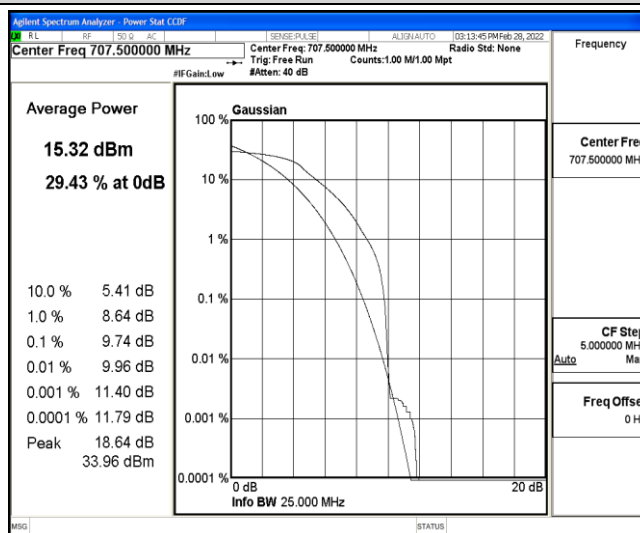
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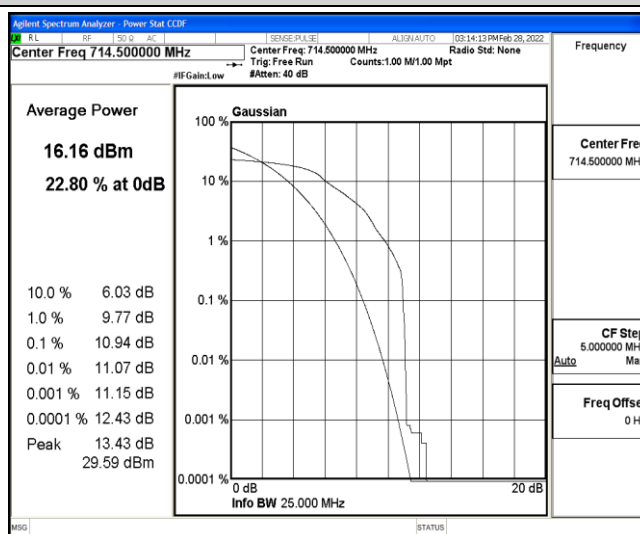
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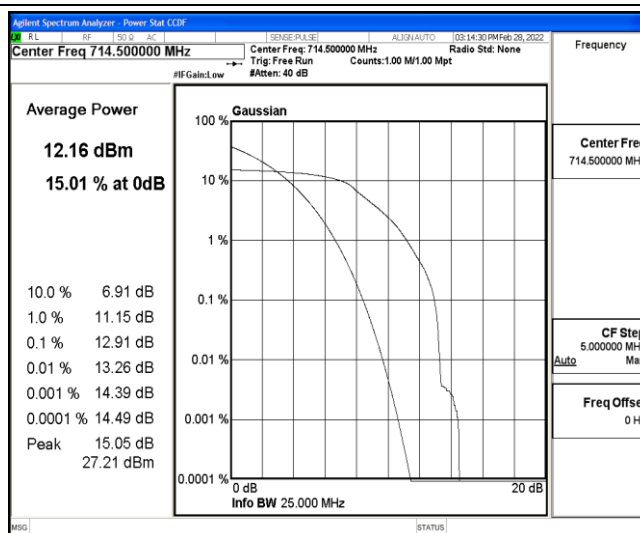
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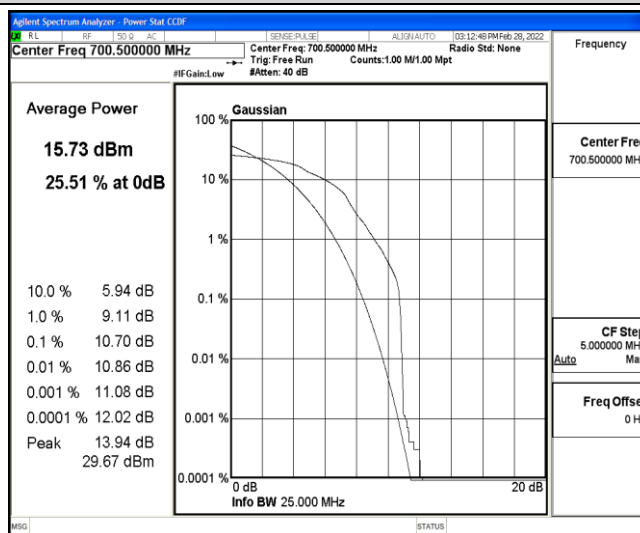
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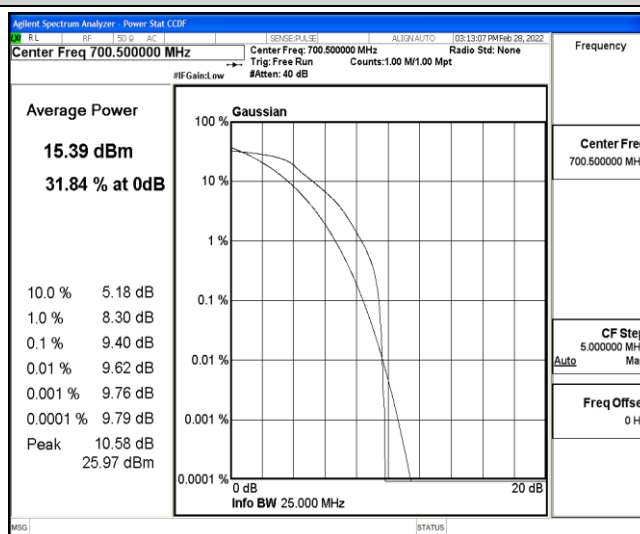
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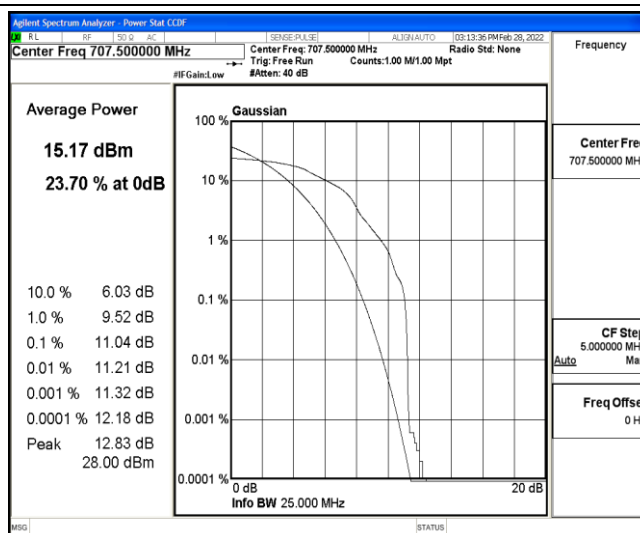
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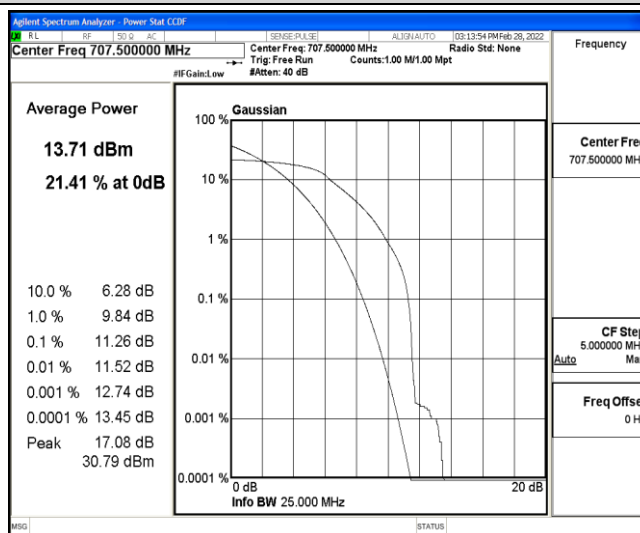
Band12-3MHz-16QAM-23025-1-0-Low-10.70-<=13-PASS



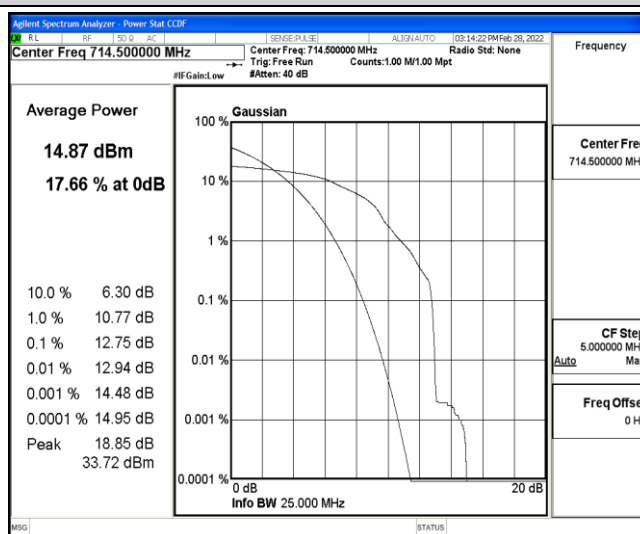
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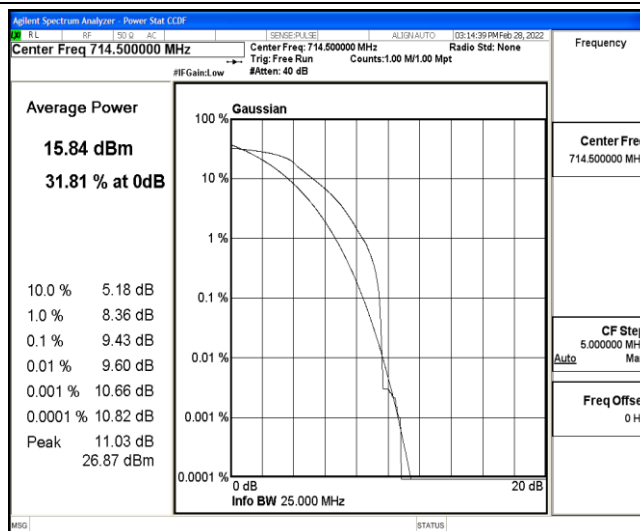
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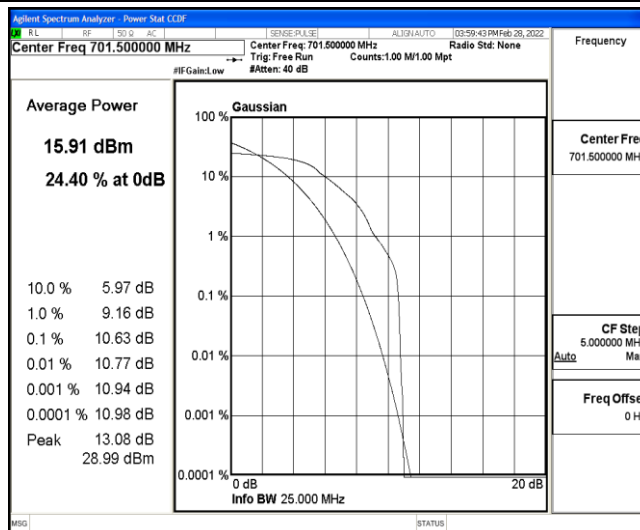
Band12-3MHz-16QAM-23095-6-0-Low-11.26-<=13-PASS



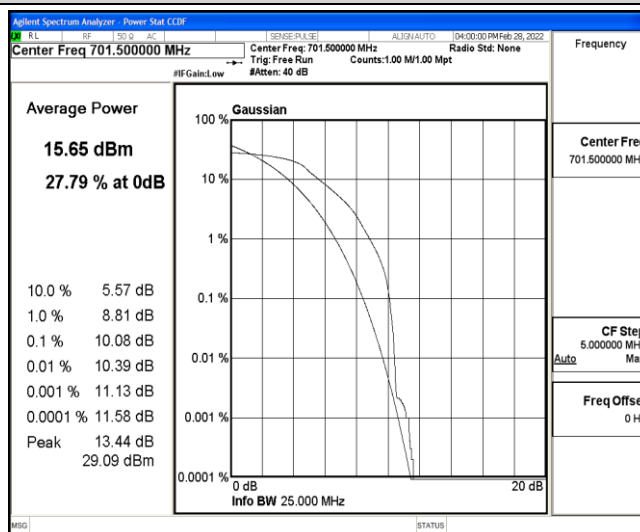
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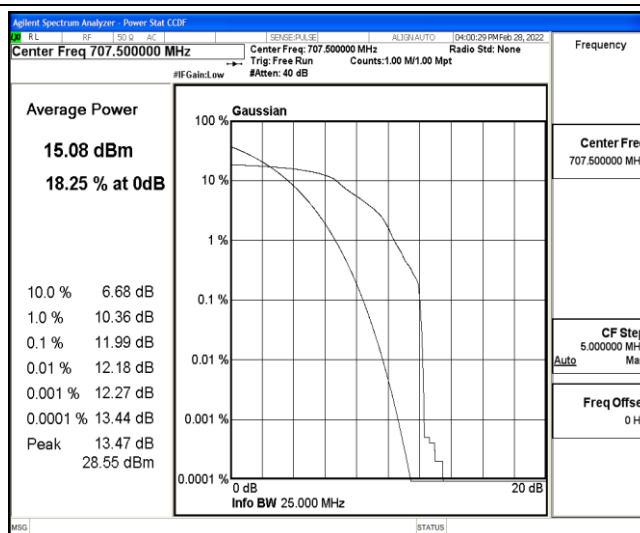
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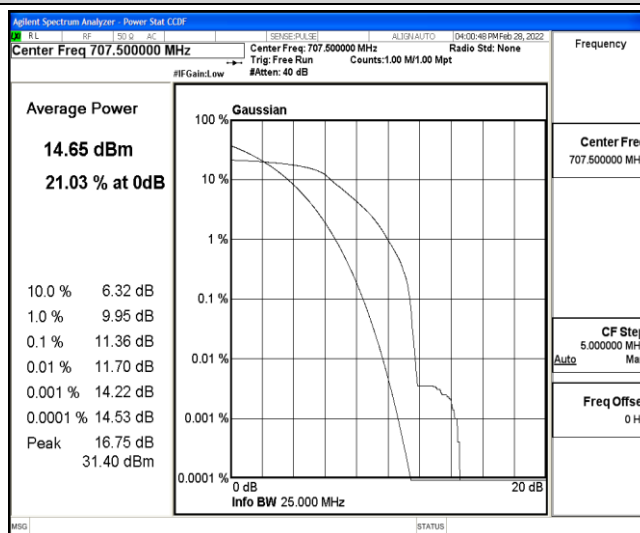
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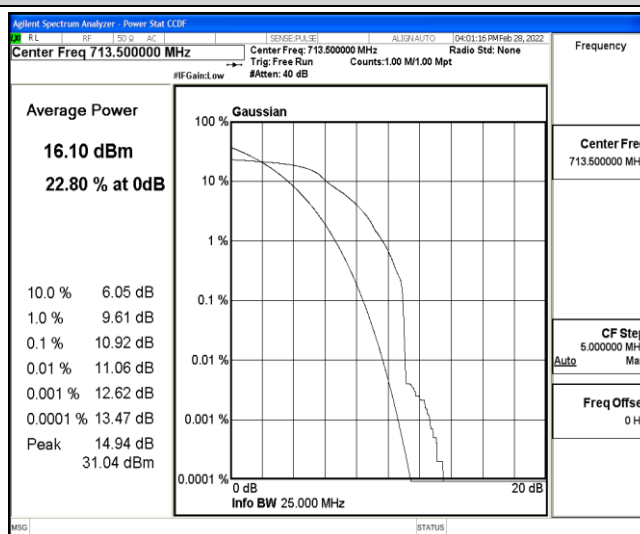
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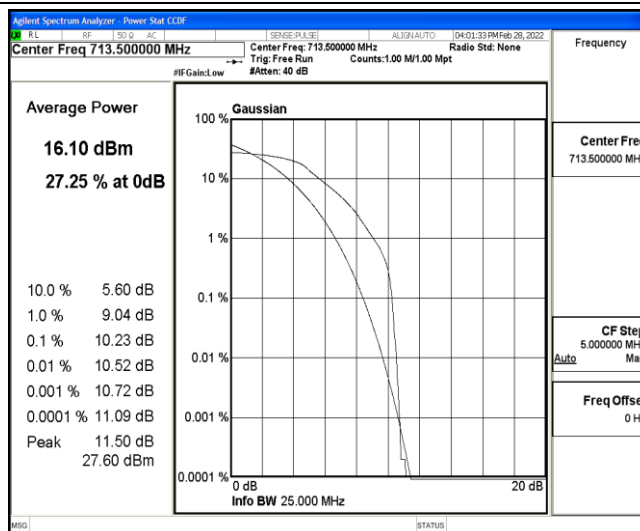
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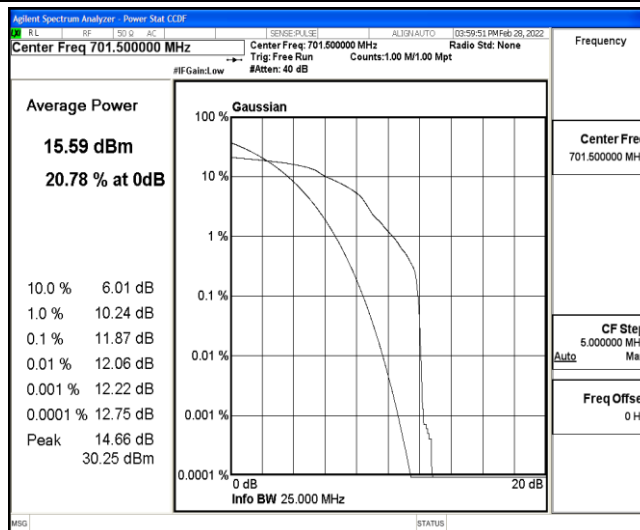
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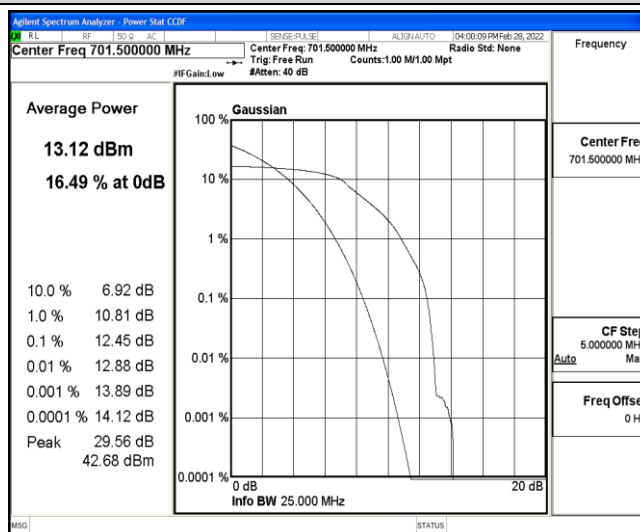
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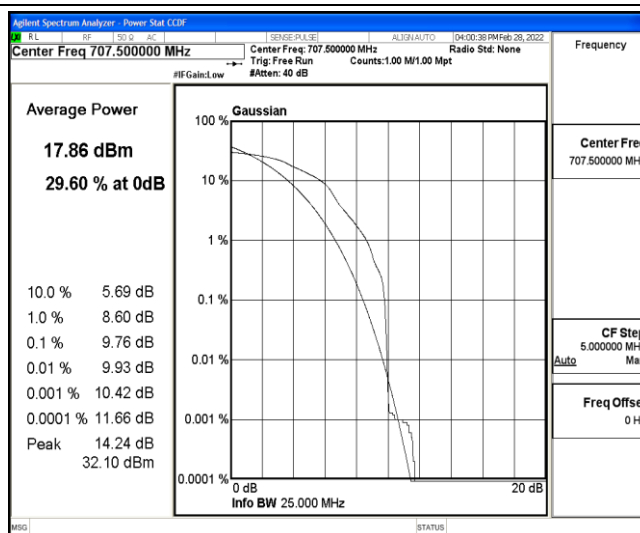
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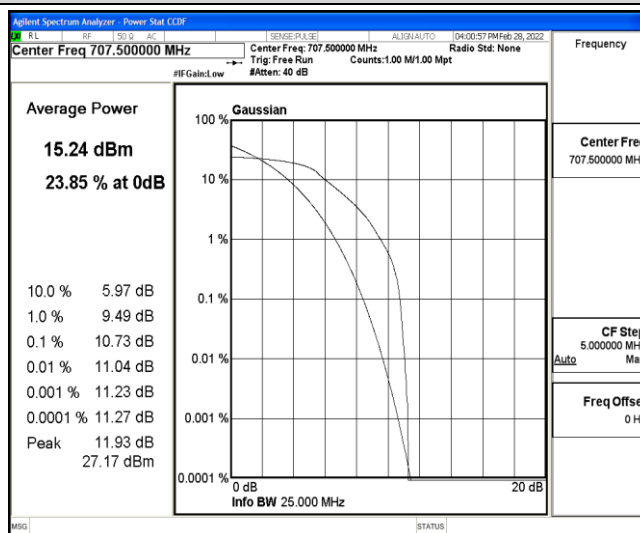
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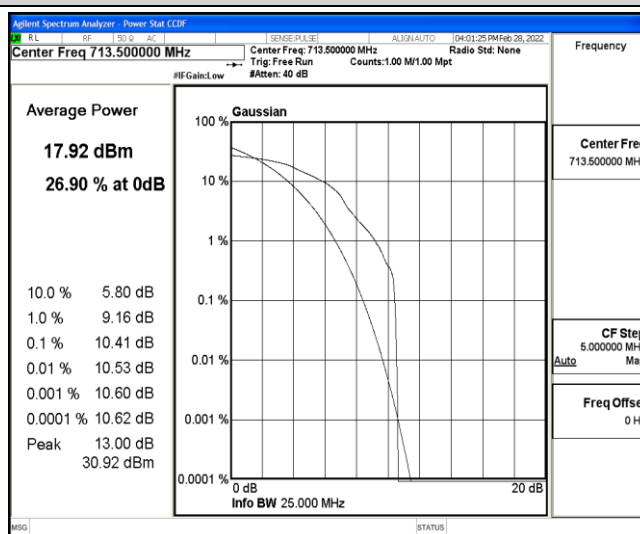
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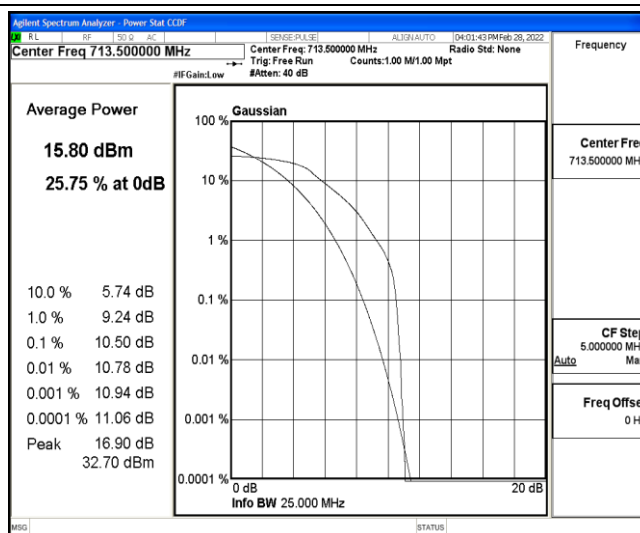
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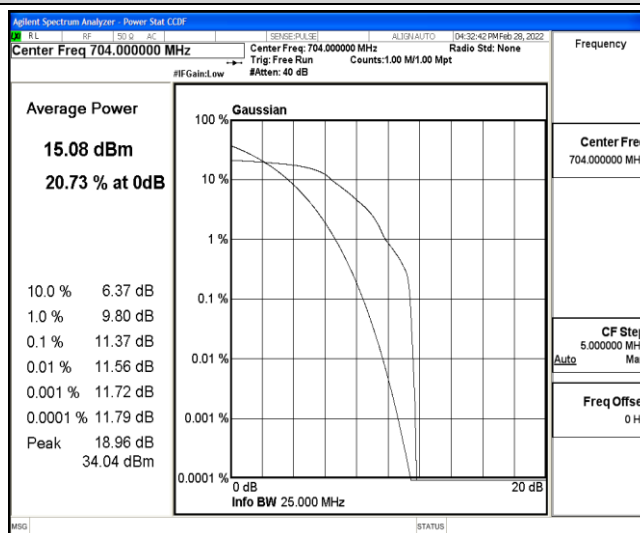
Band12-5MHz-16QAM-23095-6-0-Low-10.73-13-PASS



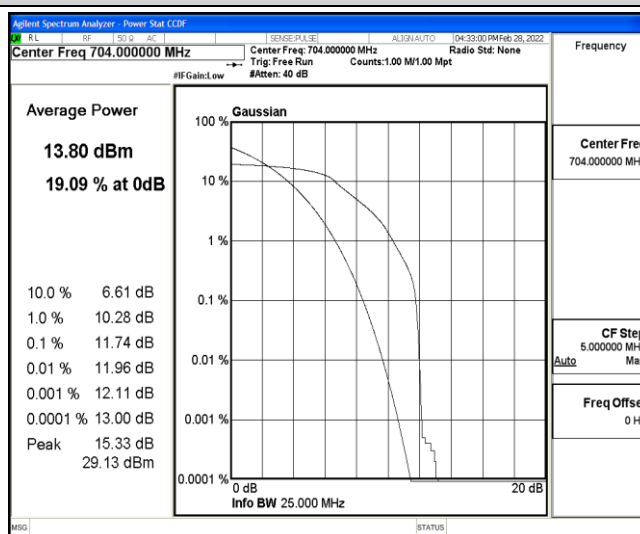
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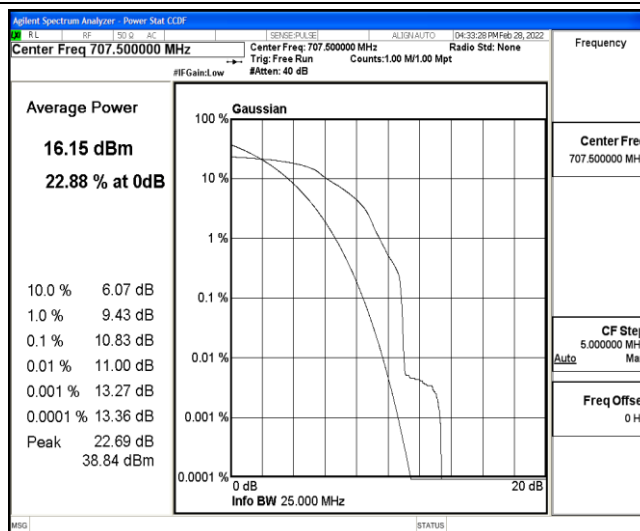
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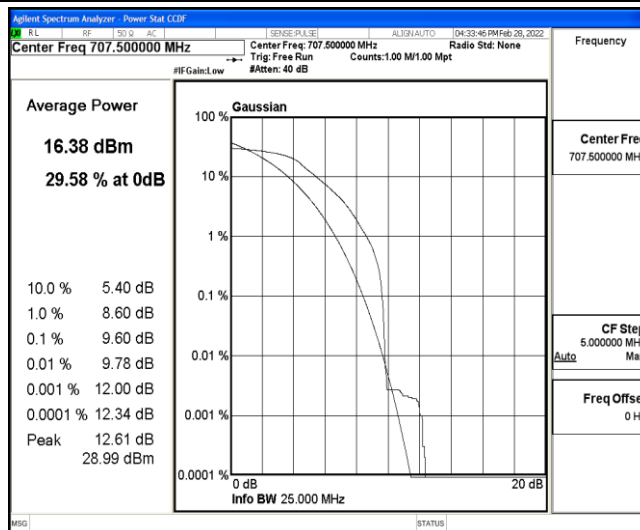
Band12-10MHz-QPSK-23060-1-0-Low-11.37-<=13-PASS



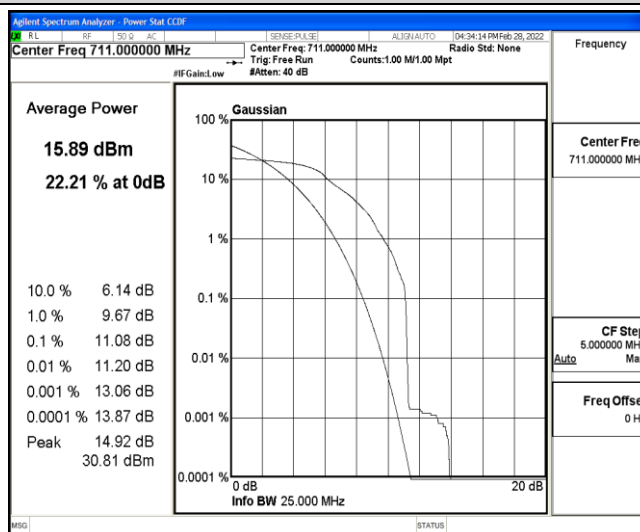
Band12-10MHz-QPSK-23060-6-0-Low-11.74-<=13-PASS



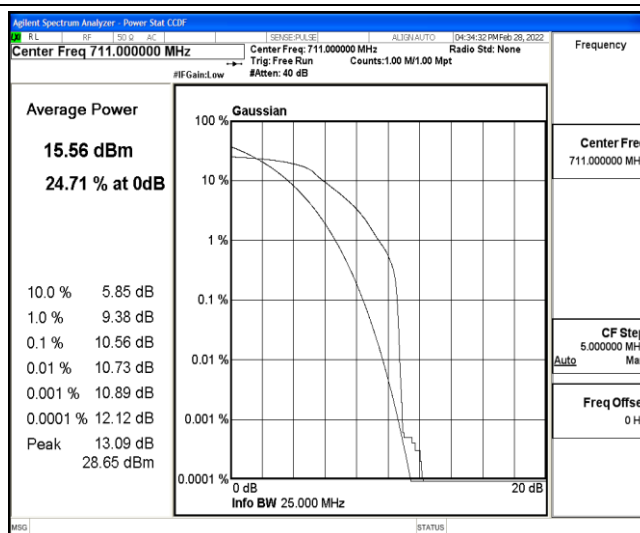
Band12-10MHz-QPSK-23095-1-0-Low-10.83-<=13-PASS



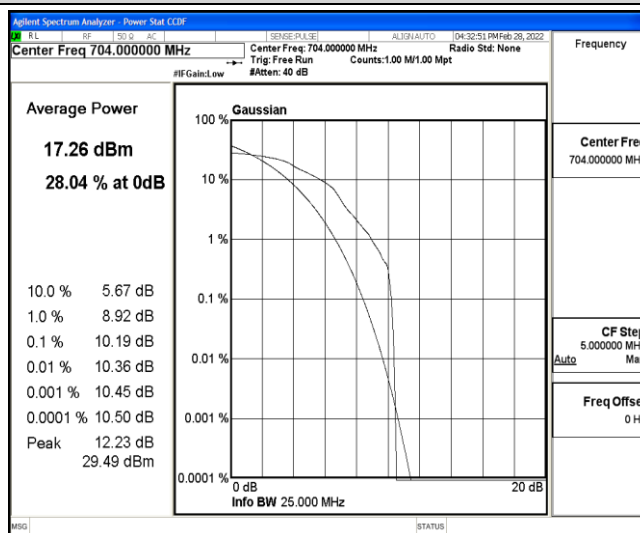
Band12-10MHz-QPSK-23095-6-0-Low-9.60-<=13-PASS



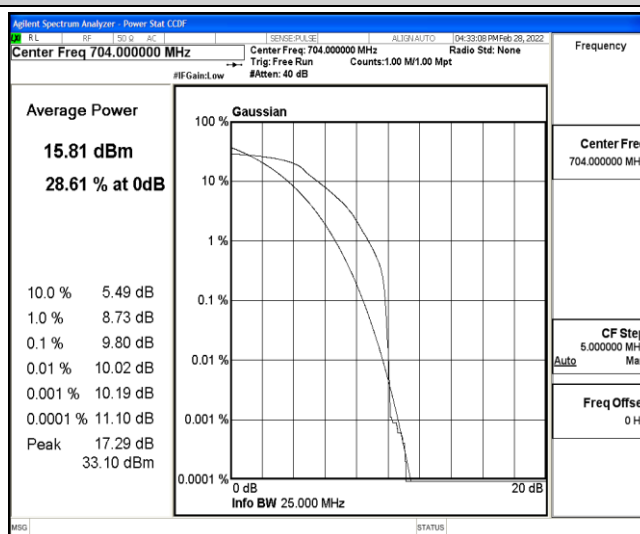
Band12-10MHz-QPSK-23130-1-0-High-11.08-<=13-PASS



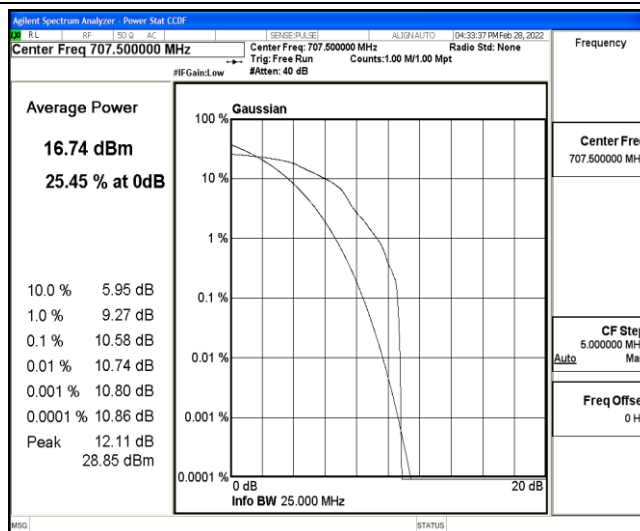
Band12-10MHz-QPSK-23130-6-0-High-10.56-13-PASS



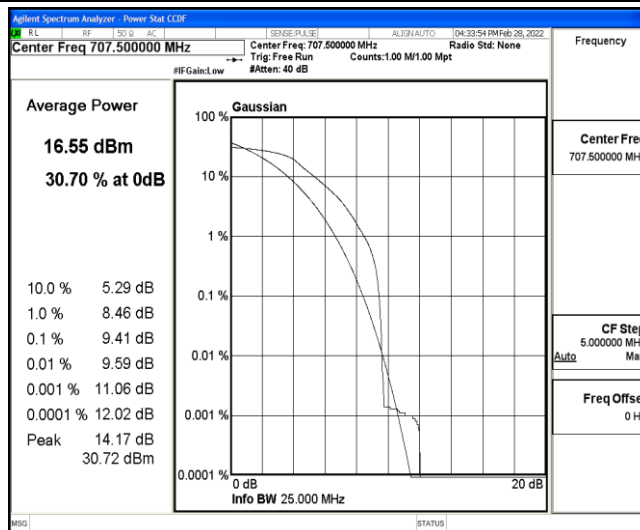
Band12-10MHz-16QAM-23060-1-0-Low-10.19-13-PASS



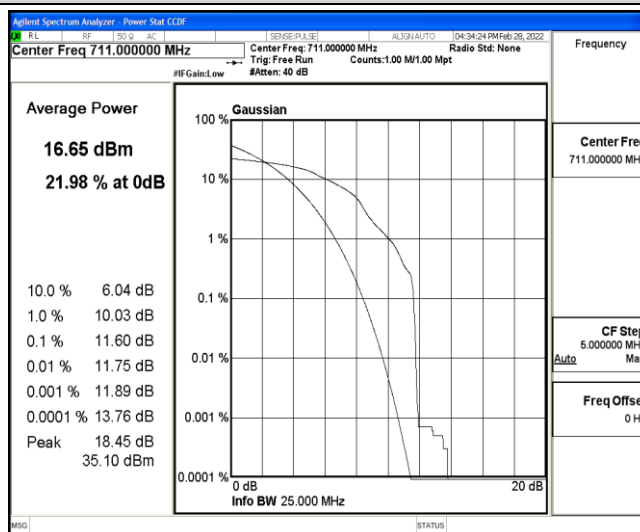
Band12-10MHz-16QAM-23060-6-0-Low-9.80-13-PASS



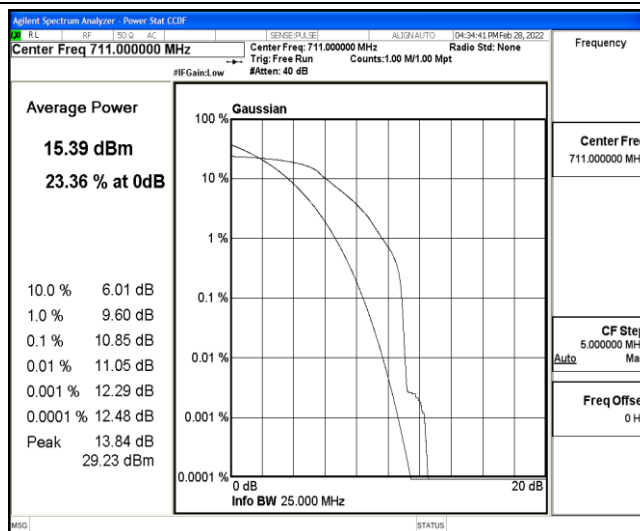
Band12-10MHz-16QAM-23095-1-0-Low-10.58-13-PASS



Band12-10MHz-16QAM-23095-6-0-Low-9.41-13-PASS



Band12-10MHz-16QAM-23130-1-0-High-11.60-13-PASS



Band12-10MHz-16QAM-23130-6-0-High-10.85-<=13-PASS



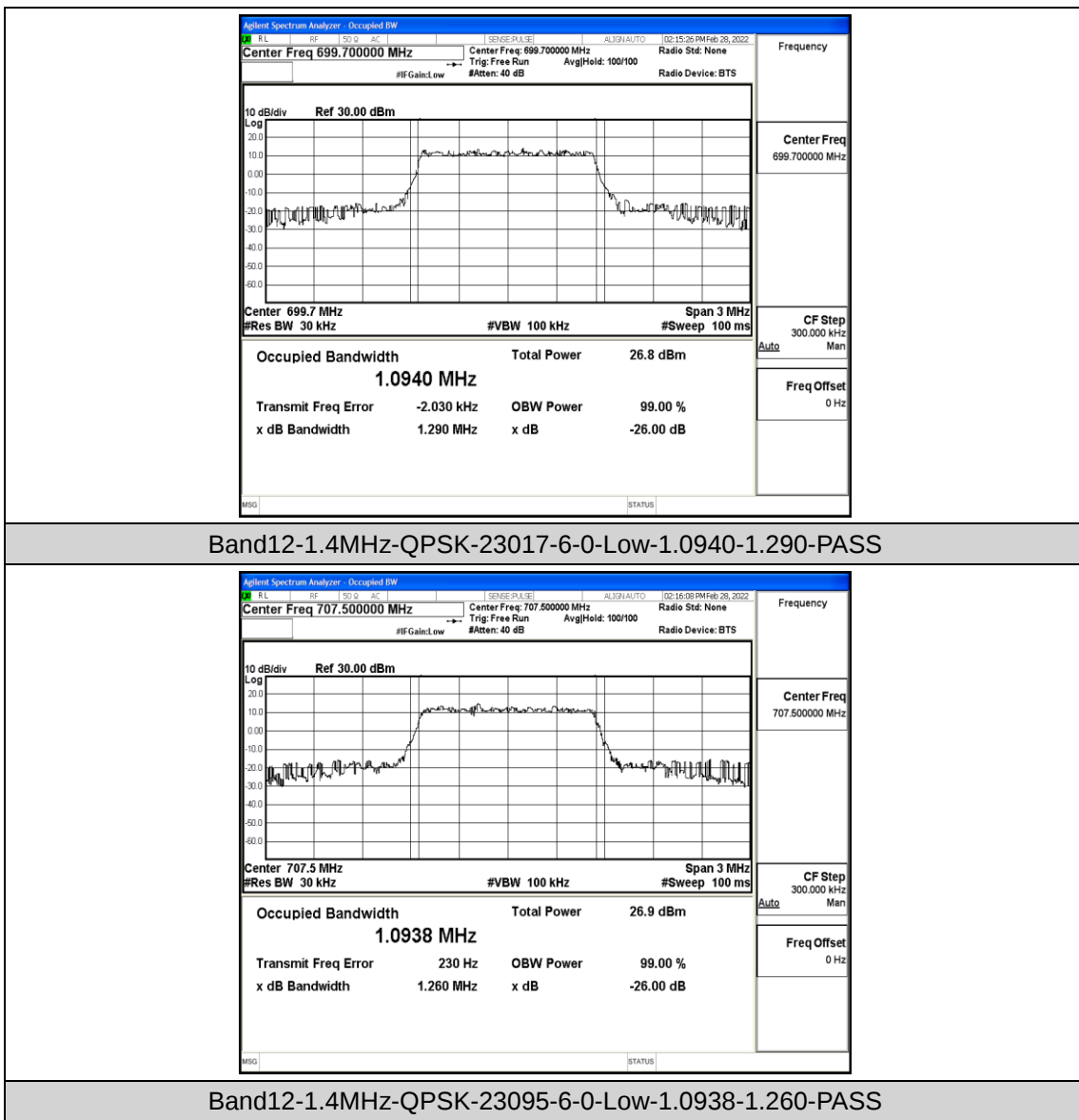
C.3 26dB Bandwidth and Occupied Bandwidth for M1

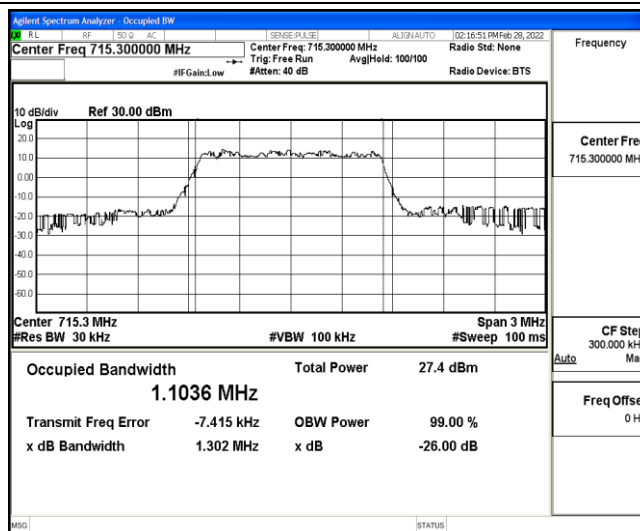
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	1.0940	1.290	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	1.0938	1.260	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.1036	1.302	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1.0900	1.294	PASS
Band12	1.4MHz	23095	16QAM	6	0	Middle	1.0955	1.277	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	1.0968	1.279	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.1662	2.552	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	1.1718	2.574	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.1716	2.413	PASS
Band12	3MHz	23025	16QAM	6	0	Low	1.1620	2.401	PASS
Band12	3MHz	23095	16QAM	6	0	Middle	1.1743	2.474	PASS
Band12	3MHz	23165	16QAM	6	0	High	1.1705	2.487	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.4527	3.262	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	1.4150	3.445	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.2776	3.340	PASS
Band12	5MHz	23035	16QAM	6	0	Low	1.2858	3.251	PASS
Band12	5MHz	23095	16QAM	6	0	Middle	1.4906	3.355	PASS
Band12	5MHz	23155	16QAM	6	0	High	1.2929	3.152	PASS
Band12	10MHz	23060	QPSK	6	0	Low	2.3366	4.582	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	2.2229	4.706	PASS
Band12	10MHz	23130	QPSK	6	0	High	2.0538	4.260	PASS
Band12	10MHz	23060	16QAM	6	0	Low	2.3767	4.483	PASS
Band12	10MHz	23095	16QAM	6	0	Middle	2.2595	4.697	PASS
Band12	10MHz	23130	16QAM	6	0	High	1.8228	4.232	PASS

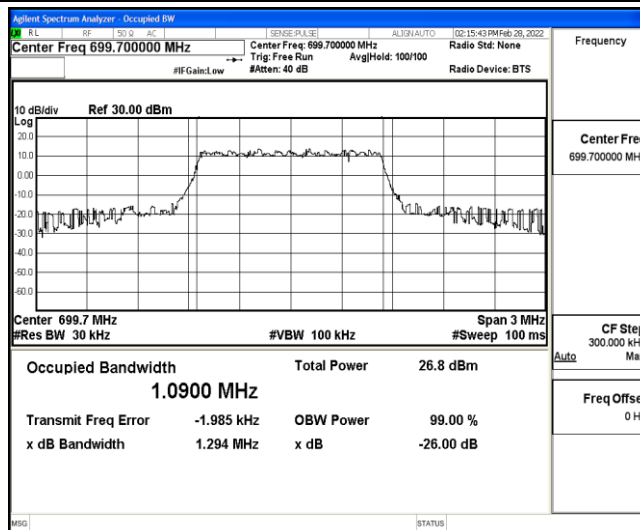


Test Graphs

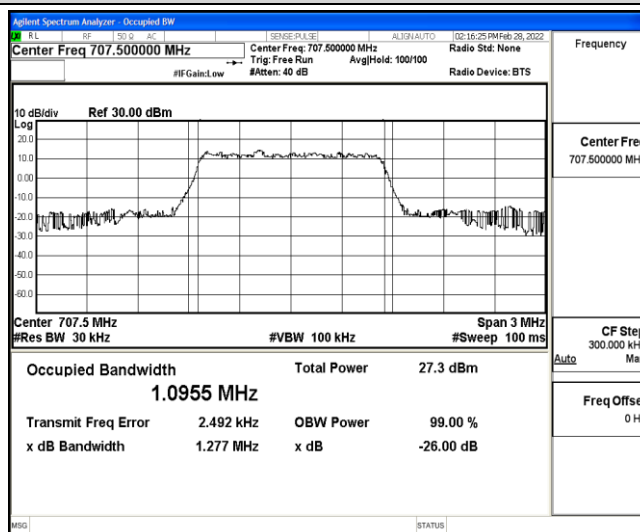




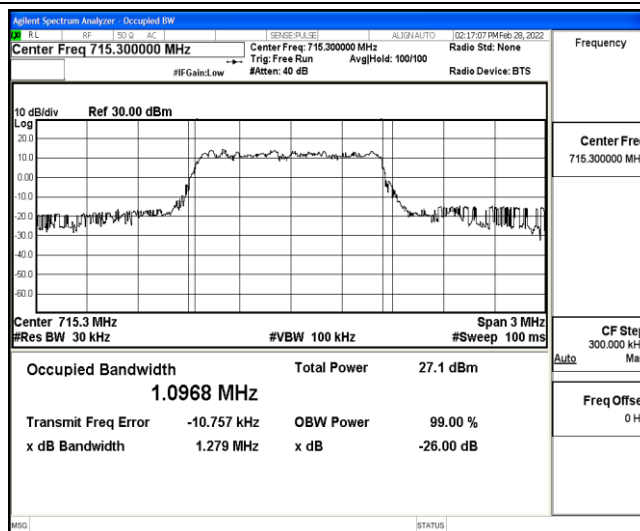
Band12-1.4MHz-QPSK-23173-6-0-High-1.1036-1.302-PASS



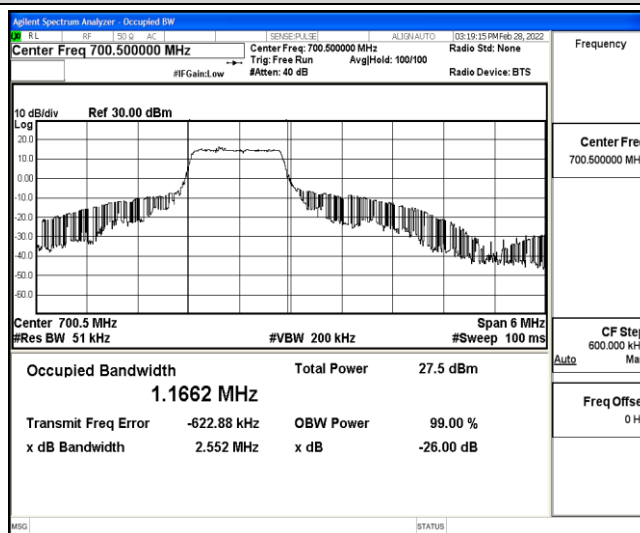
Band12-1.4MHz-16QAM-23017-6-0-Low-1.0900-1.294-PASS



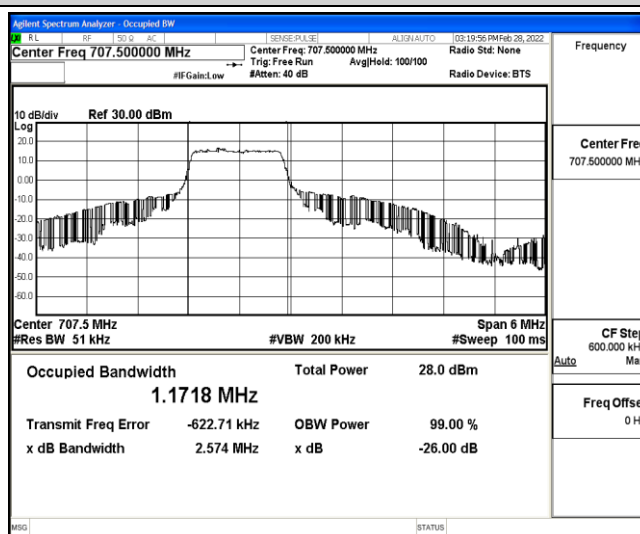
Band12-1.4MHz-16QAM-23095-6-0-Low-1.0955-1.277-PASS



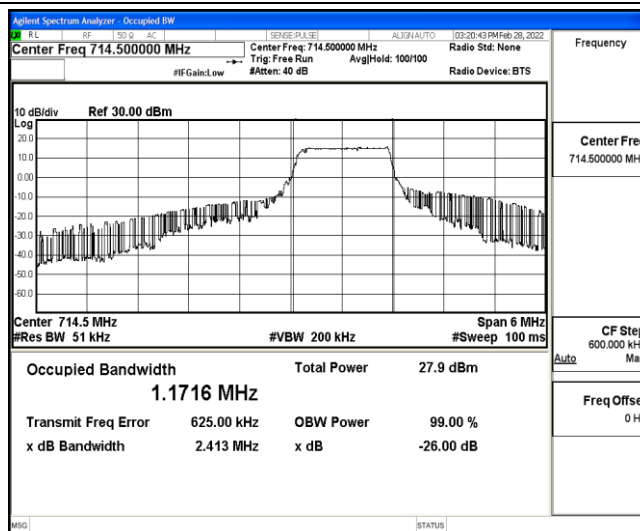
Band12-1.4MHz-16QAM-23173-6-0-High-1.0968-1.279-PASS



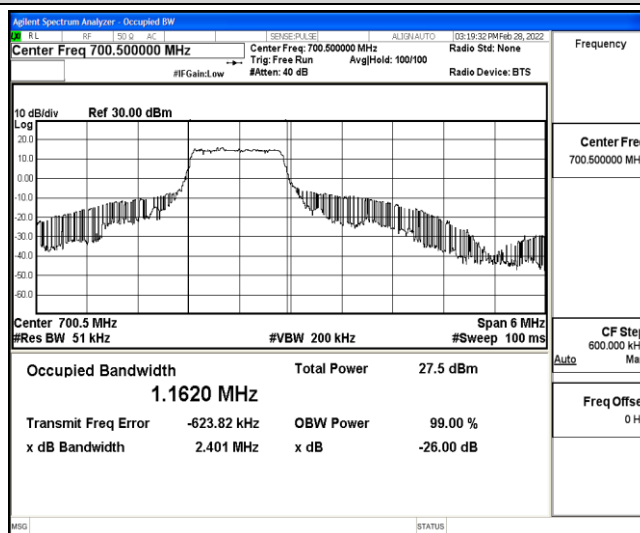
Band12-3MHz-QPSK-23025-6-0-Low-1.1662-2.552-PASS



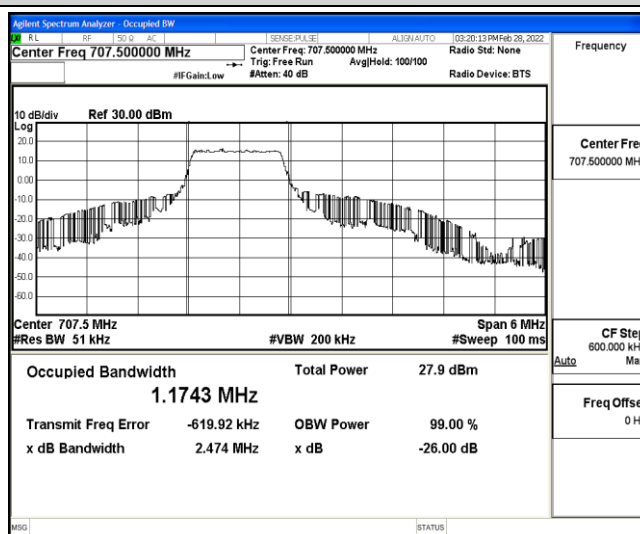
Band12-3MHz-QPSK-23095-6-0-Low-1.1718-2.574-PASS



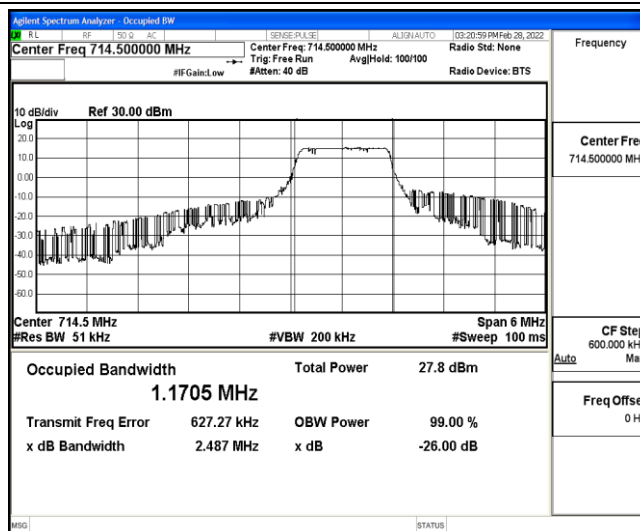
Band12-3MHz-QPSK-23165-6-0-High-1.1716-2.413-PASS



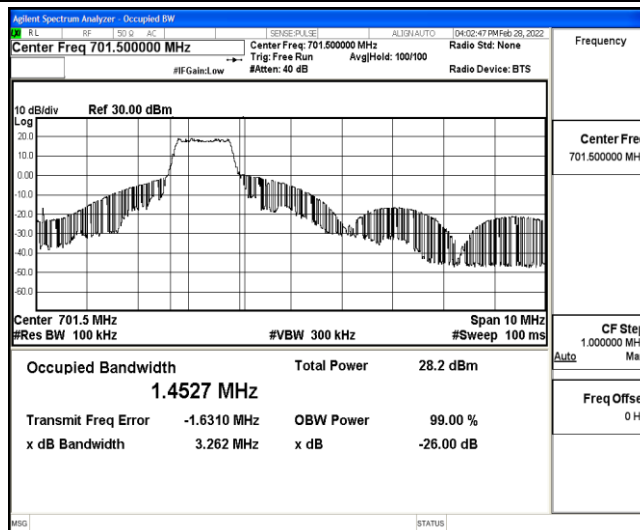
Band12-3MHz-16QAM-23025-6-0-Low-1.1620-2.401-PASS



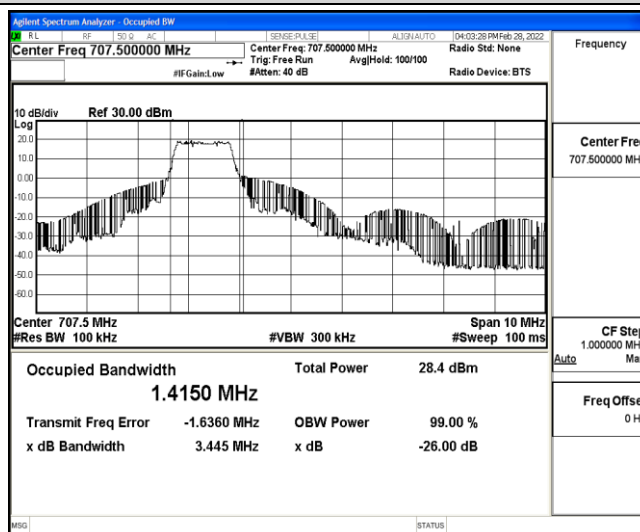
Band12-3MHz-16QAM-23095-6-0-Low-1.1743-2.474-PASS



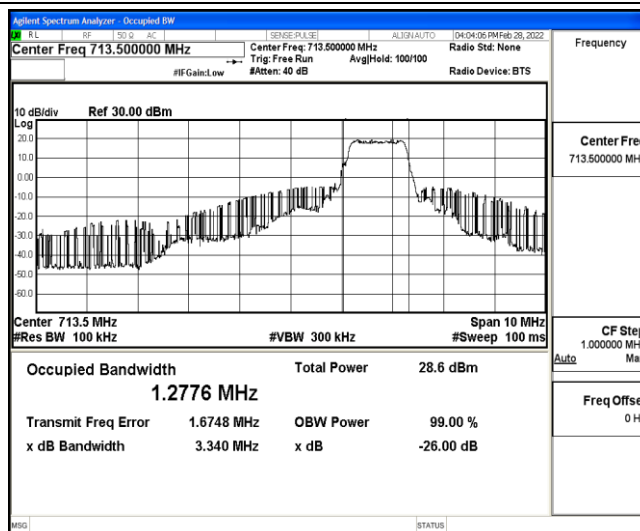
Band12-3MHz-16QAM-23165-6-0-High-1.1705-2.487-PASS



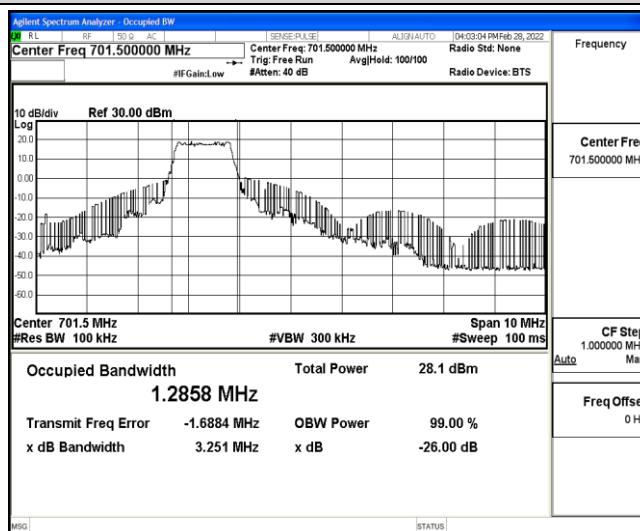
Band12-5MHz-QPSK-23035-6-0-Low-1.4527-3.262-PASS



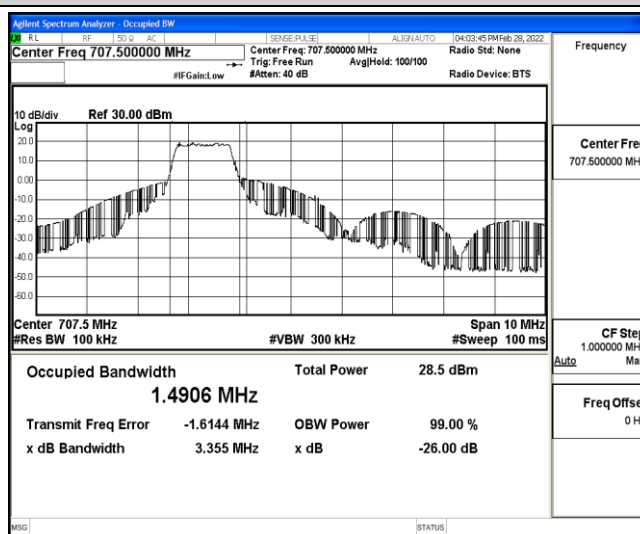
Band12-5MHz-QPSK-23095-6-0-Low-1.4150-3.445-PASS



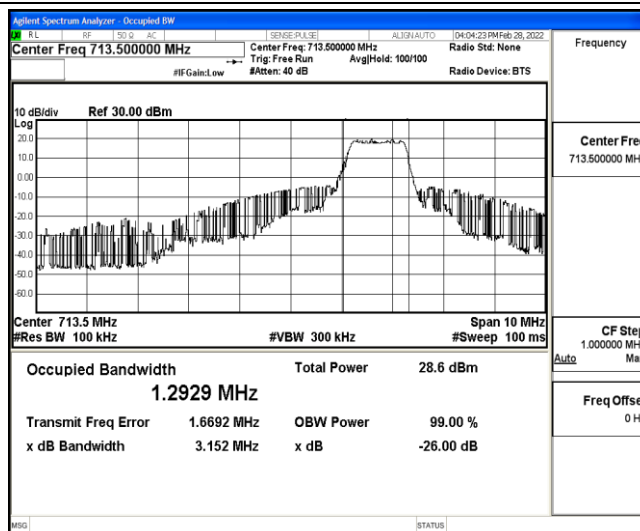
Band12-5MHz-QPSK-23155-6-0-High-1.2776-3.340-PASS



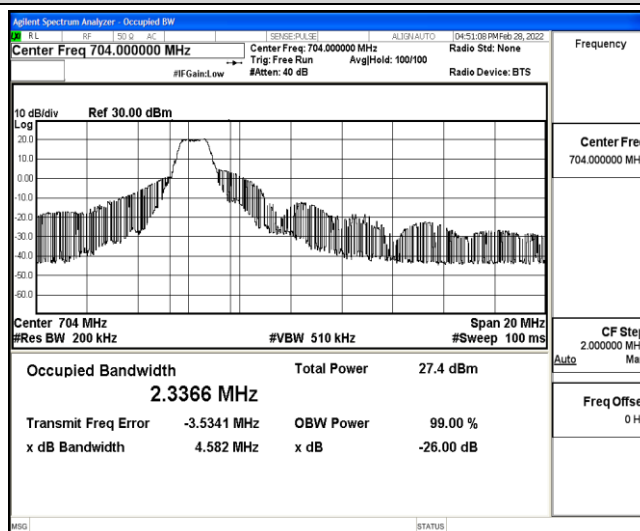
Band12-5MHz-16QAM-23035-6-0-Low-1.2858-3.251-PASS



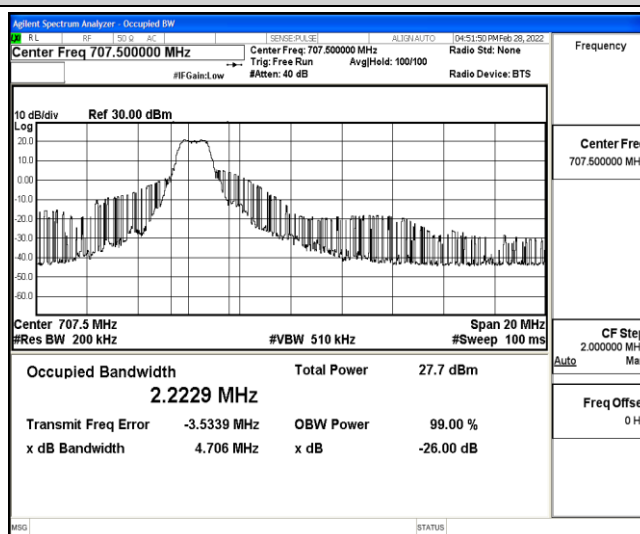
Band12-5MHz-16QAM-23095-6-0-Low-1.4906-3.355-PASS



Band12-5MHz-16QAM-23155-6-0-High-1.2929-3.152-PASS



Band12-10MHz-QPSK-23060-6-0-Low-2.3366-4.582-PASS



Band12-10MHz-QPSK-23095-6-0-Low-2.2229-4.706-PASS