

FCC EMTC Band 12 Test Data

General Description of EUT	
Product Name:	Tractive Dog 6
Test Model:	TG6A
Sample ID:	HC-C-202403-0336-01-04#
Environmental Conditions	
Temperature:	22°C-25°C
Relative Humidity:	43%-55%
Test Voltage:	DC 3.87V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202403-0336-93. The report only show the worst case data.	

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1. Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	23.43	PASS
Band12	1.4MHz	23017	QPSK	1	5	Low	23.47	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	21.42	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	23.50	PASS
Band12	1.4MHz	23095	QPSK	1	5	Low	23.44	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	21.45	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	23.43	PASS
Band12	1.4MHz	23173	QPSK	1	5	High	23.37	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	21.31	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	22.35	PASS
Band12	1.4MHz	23017	16QAM	1	5	Low	22.34	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	21.42	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	22.47	PASS
Band12	1.4MHz	23095	16QAM	1	5	Low	22.43	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	21.45	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	22.27	PASS
Band12	1.4MHz	23173	16QAM	1	5	High	22.18	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	21.29	PASS
Band12	3MHz	23025	QPSK	1	0	Low	23.40	PASS
Band12	3MHz	23025	QPSK	1	5	Low	23.32	PASS
Band12	3MHz	23025	QPSK	6	0	Low	21.27	PASS
Band12	3MHz	23095	QPSK	1	0	Low	23.48	PASS
Band12	3MHz	23095	QPSK	1	5	Low	23.32	PASS
Band12	3MHz	23095	QPSK	6	0	Low	21.24	PASS
Band12	3MHz	23165	QPSK	1	0	High	23.52	PASS
Band12	3MHz	23165	QPSK	1	5	High	23.47	PASS
Band12	3MHz	23165	QPSK	6	0	High	21.46	PASS
Band12	3MHz	23025	16QAM	1	0	Low	22.21	PASS
Band12	3MHz	23025	16QAM	1	5	Low	22.19	PASS
Band12	3MHz	23025	16QAM	6	0	Low	21.35	PASS
Band12	3MHz	23095	16QAM	1	0	Low	22.29	PASS
Band12	3MHz	23095	16QAM	1	5	Low	22.16	PASS
Band12	3MHz	23095	16QAM	6	0	Low	21.31	PASS

Band12	3MHz	23165	16QAM	1	0	High	22.50	PASS
Band12	3MHz	23165	16QAM	1	5	High	22.42	PASS
Band12	3MHz	23165	16QAM	6	0	High	21.42	PASS
Band12	5MHz	23035	QPSK	1	0	Low	23.16	PASS
Band12	5MHz	23035	QPSK	1	5	Low	23.18	PASS
Band12	5MHz	23035	QPSK	6	0	Low	22.14	PASS
Band12	5MHz	23095	QPSK	1	0	Low	23.19	PASS
Band12	5MHz	23095	QPSK	1	5	Low	23.13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	22.19	PASS
Band12	5MHz	23155	QPSK	1	0	High	23.32	PASS
Band12	5MHz	23155	QPSK	1	5	High	23.24	PASS
Band12	5MHz	23155	QPSK	6	0	High	22.16	PASS
Band12	5MHz	23035	16QAM	1	0	Low	23.23	PASS
Band12	5MHz	23035	16QAM	1	5	Low	23.26	PASS
Band12	5MHz	23035	16QAM	6	0	Low	22.12	PASS
Band12	5MHz	23095	16QAM	1	0	Low	23.27	PASS
Band12	5MHz	23095	16QAM	1	5	Low	23.30	PASS
Band12	5MHz	23095	16QAM	6	0	Low	22.18	PASS
Band12	5MHz	23155	16QAM	1	0	High	23.32	PASS
Band12	5MHz	23155	16QAM	1	5	High	23.29	PASS
Band12	5MHz	23155	16QAM	6	0	High	22.15	PASS
Band12	10MHz	23060	QPSK	1	0	Low	23.19	PASS
Band12	10MHz	23060	QPSK	1	5	Low	23.08	PASS
Band12	10MHz	23060	QPSK	6	0	Low	22.01	PASS
Band12	10MHz	23095	QPSK	1	0	Low	23.27	PASS
Band12	10MHz	23095	QPSK	1	5	Low	23.19	PASS
Band12	10MHz	23095	QPSK	6	0	Low	22.13	PASS
Band12	10MHz	23130	QPSK	1	0	High	23.33	PASS
Band12	10MHz	23130	QPSK	1	5	High	23.20	PASS
Band12	10MHz	23130	QPSK	6	0	High	22.21	PASS
Band12	10MHz	23060	16QAM	1	0	Low	23.24	PASS
Band12	10MHz	23060	16QAM	1	5	Low	23.17	PASS
Band12	10MHz	23060	16QAM	6	0	Low	22.00	PASS
Band12	10MHz	23095	16QAM	1	0	Low	23.33	PASS
Band12	10MHz	23095	16QAM	1	5	Low	23.27	PASS
Band12	10MHz	23095	16QAM	6	0	Low	22.12	PASS
Band12	10MHz	23130	16QAM	1	0	High	23.42	PASS
Band12	10MHz	23130	16QAM	1	5	High	23.35	PASS
Band12	10MHz	23130	16QAM	6	0	High	22.20	PASS

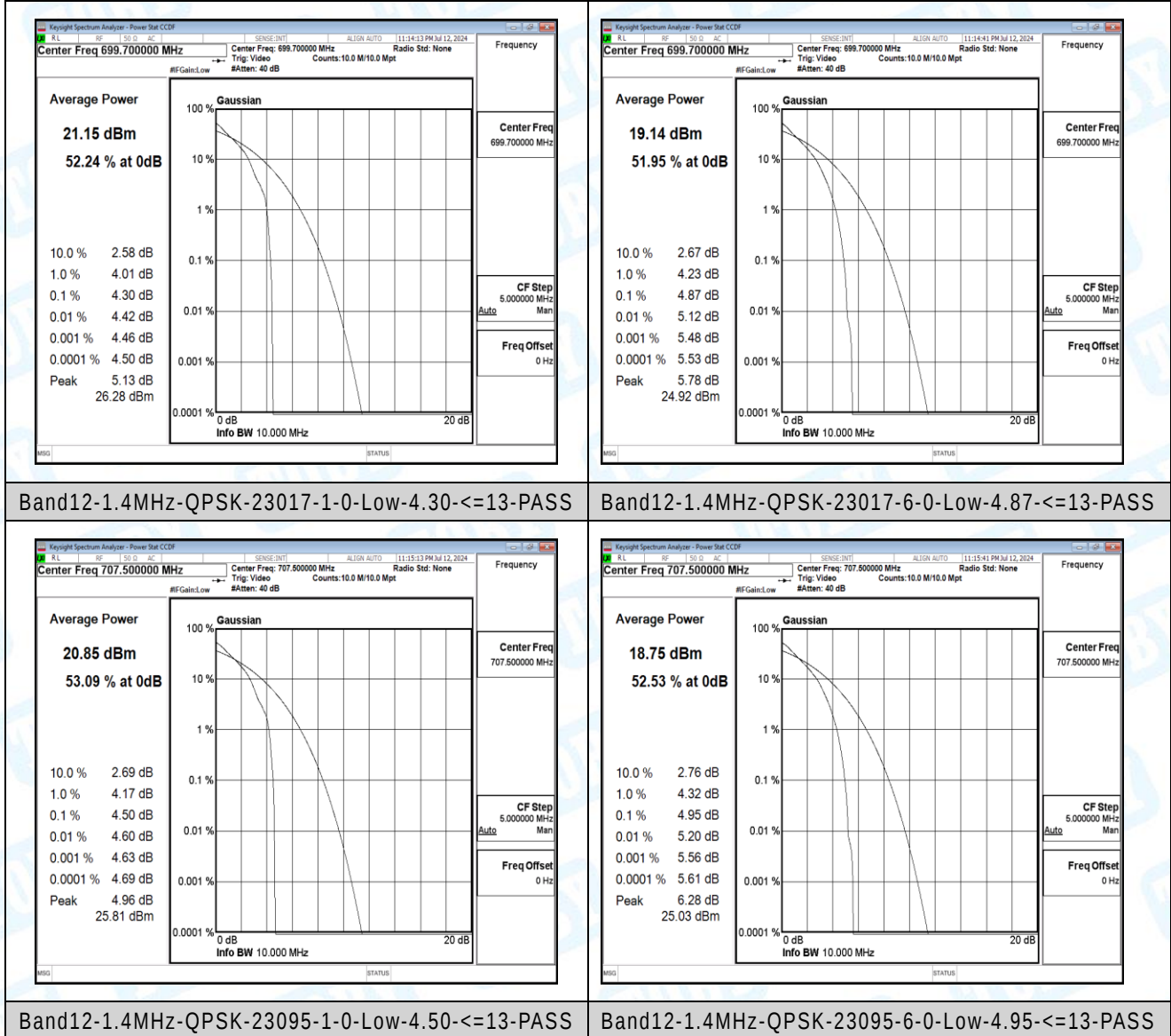
2. Peak-to-Average Ratio(CCDF) for M1

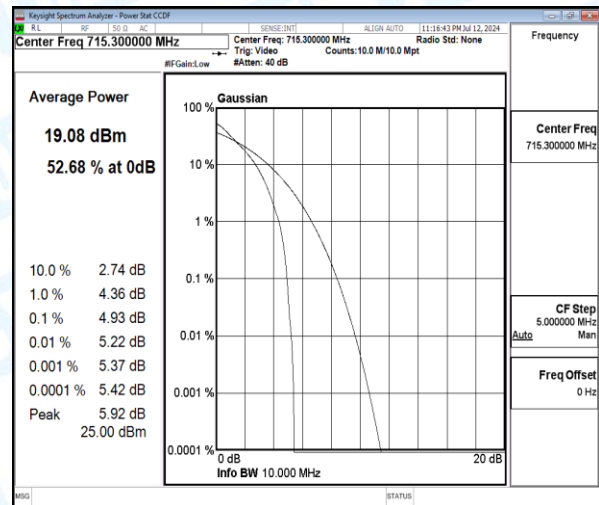
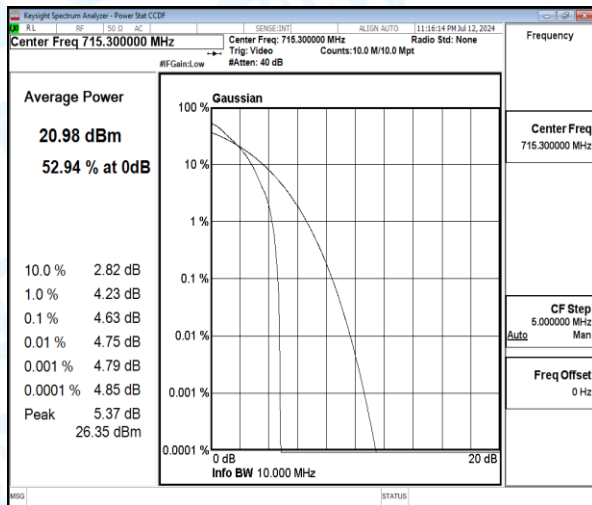
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	4.30	<=13	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	4.87	<=13	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	4.50	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	4.95	<=13	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	4.63	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	4.93	<=13	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	4.78	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	5.04	<=13	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	4.78	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	5.04	<=13	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	5.09	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	4.94	<=13	PASS
Band12	3MHz	23025	QPSK	1	0	Low	4.68	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	Low	4.94	<=13	PASS
Band12	3MHz	23095	QPSK	1	0	Low	4.79	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Low	4.85	<=13	PASS
Band12	3MHz	23165	QPSK	1	0	High	4.44	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	High	4.86	<=13	PASS
Band12	3MHz	23025	16QAM	1	0	Low	4.80	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	Low	5.02	<=13	PASS
Band12	3MHz	23095	16QAM	1	0	Low	4.79	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Low	4.90	<=13	PASS
Band12	3MHz	23165	16QAM	1	0	High	5.28	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	High	4.98	<=13	PASS
Band12	5MHz	23035	QPSK	1	0	Low	4.99	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	Low	4.98	<=13	PASS
Band12	5MHz	23095	QPSK	1	0	Low	4.58	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	4.85	<=13	PASS
Band12	5MHz	23155	QPSK	1	0	High	4.65	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	High	4.92	<=13	PASS
Band12	5MHz	23035	16QAM	1	0	Low	5.44	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	Low	4.88	<=13	PASS

Band12	5MHz	23095	16QAM	1	0	Low	5.25	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Low	4.86	<=13	PASS
Band12	5MHz	23155	16QAM	1	0	High	4.75	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	High	4.90	<=13	PASS
Band12	10MHz	23060	QPSK	1	0	Low	4.55	<=13	PASS
Band12	10MHz	23060	QPSK	6	0	Low	4.96	<=13	PASS
Band12	10MHz	23095	QPSK	1	0	Low	4.47	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Low	4.84	<=13	PASS
Band12	10MHz	23130	QPSK	1	0	High	4.73	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	High	4.83	<=13	PASS
Band12	10MHz	23060	16QAM	1	0	Low	5.28	<=13	PASS
Band12	10MHz	23060	16QAM	6	0	Low	4.91	<=13	PASS
Band12	10MHz	23095	16QAM	1	0	Low	5.26	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	Low	4.94	<=13	PASS
Band12	10MHz	23130	16QAM	1	0	High	5.37	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	High	4.79	<=13	PASS

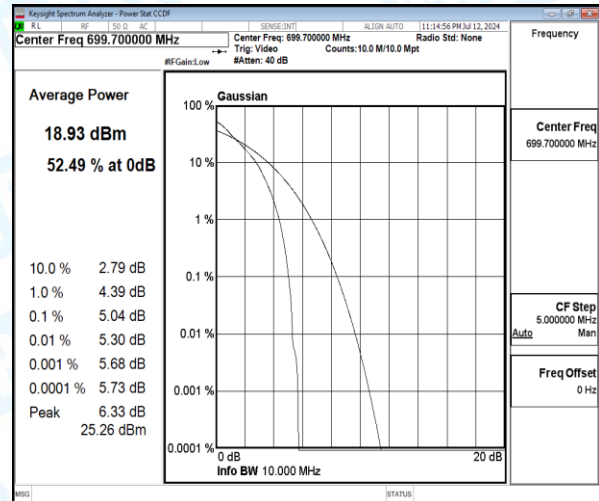
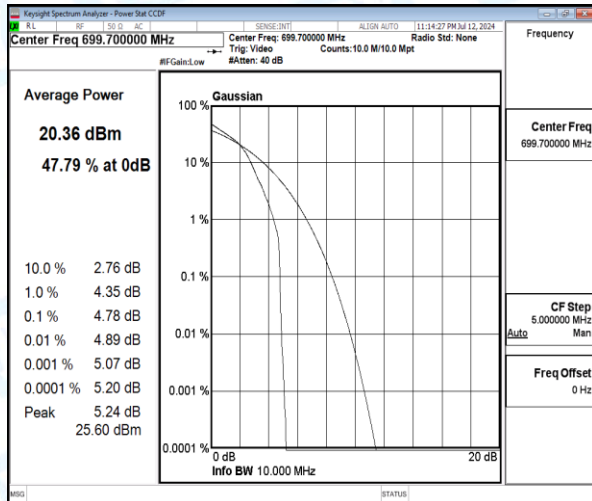
Test Graphs





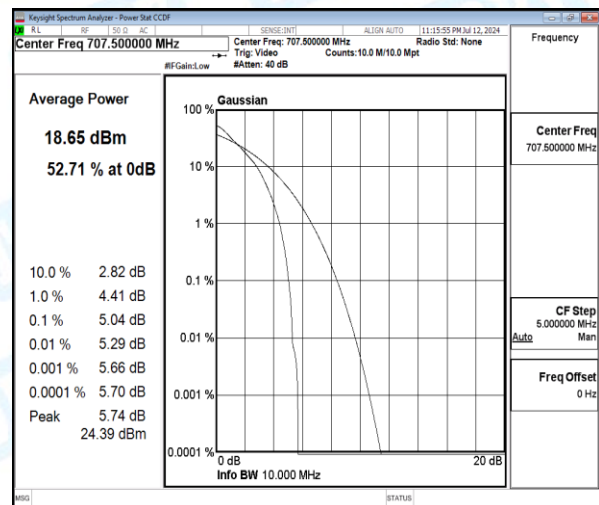
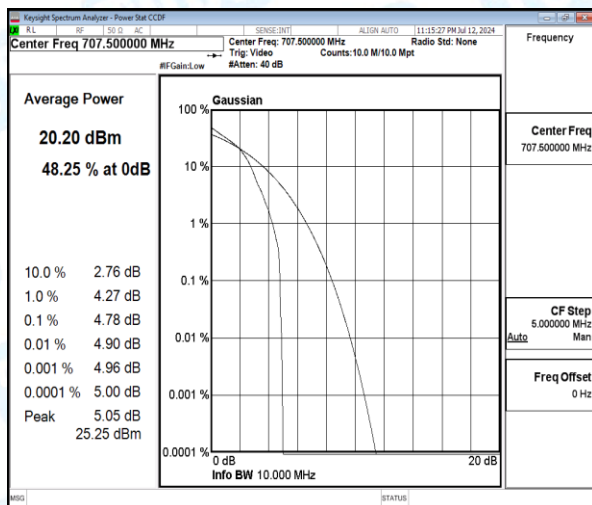
Band12-1.4MHz-QPSK-23173-1-0-High-4.63-<=13-PASS

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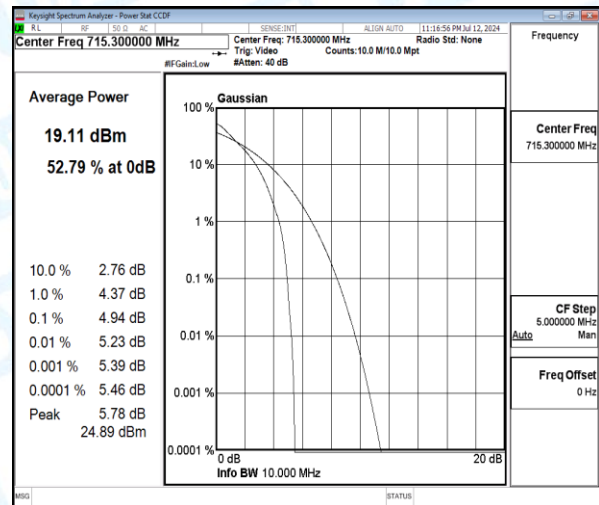
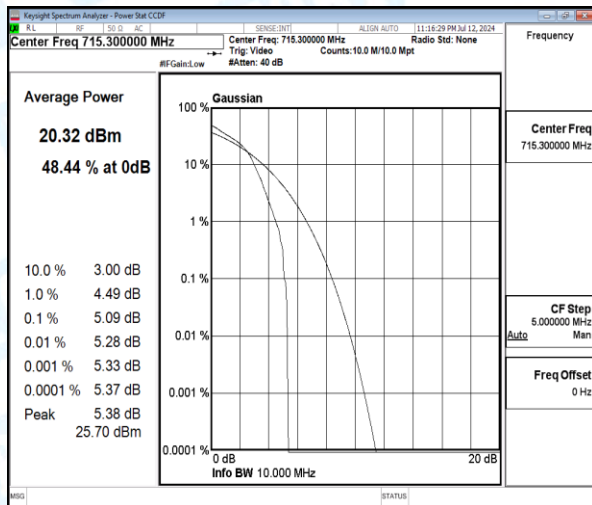
Band12-1.4MHz-16QAM-23017-1-0-Low-4.78-<=13-PASS

Band12-1.4MHz-16QAM-23017-6-0-Low-5.04-<=13-PASS



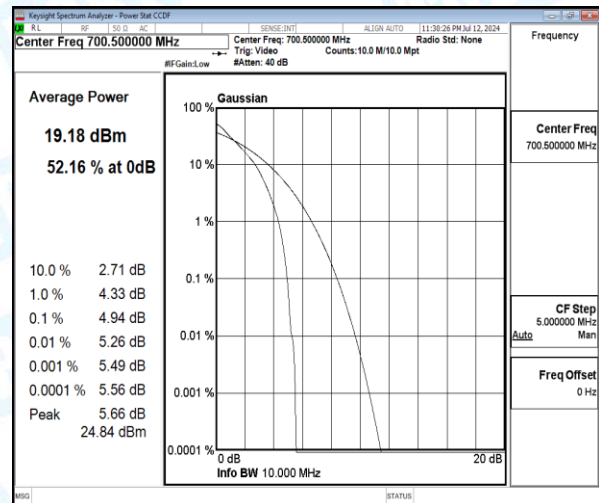
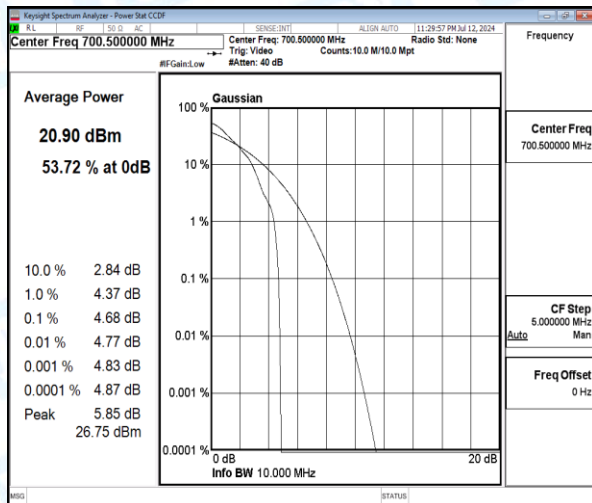
Band12-1.4MHz-16QAM-23095-1-0-Low-4.78-<=13-PASS

Band12-1.4MHz-16QAM-23095-6-0-Low-5.04-<=13-PASS



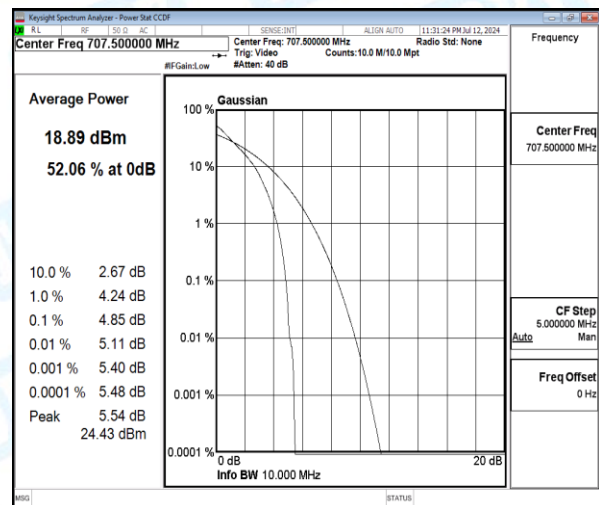
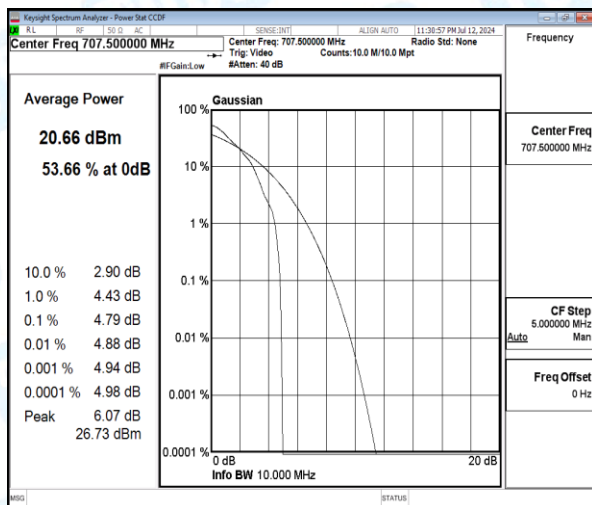
Band12-1.4MHz-16QAM-23173-1-0-High-5.09-<=13-PASS

Band12-1.4MHz-16QAM-23173-6-0-High-4.94-<=13-PASS



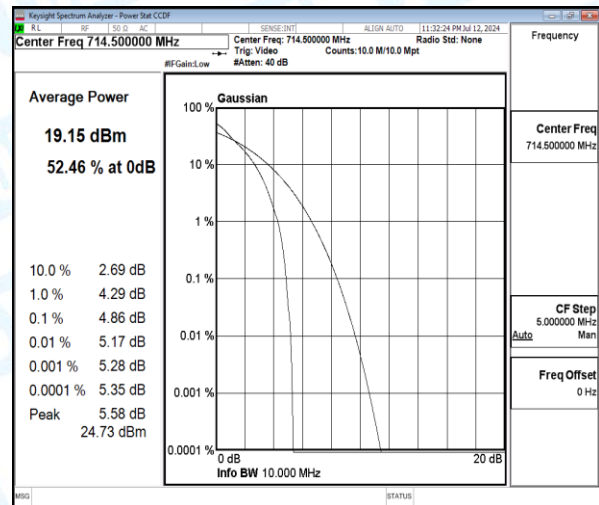
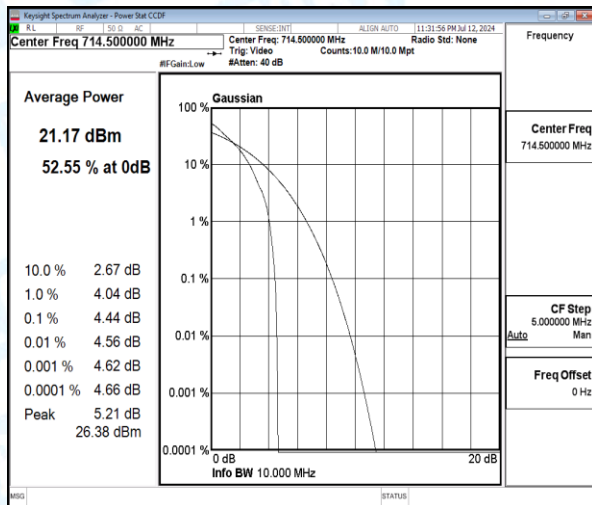
Band12-3MHz-QPSK-23025-1-0-Low-4.68-<=13-PASS

Band12-3MHz-QPSK-23025-6-0-Low-4.94-<=13-PASS



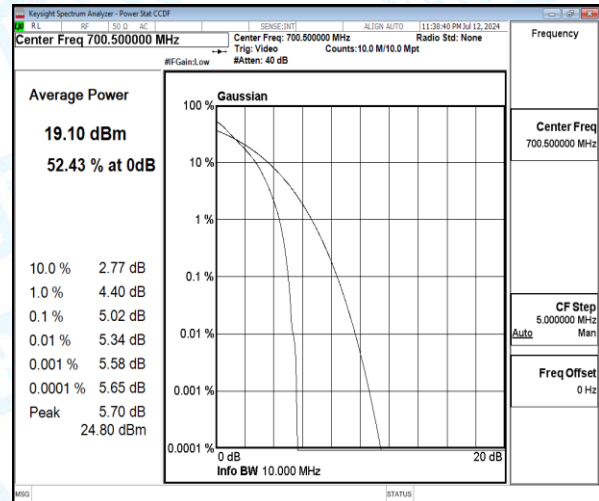
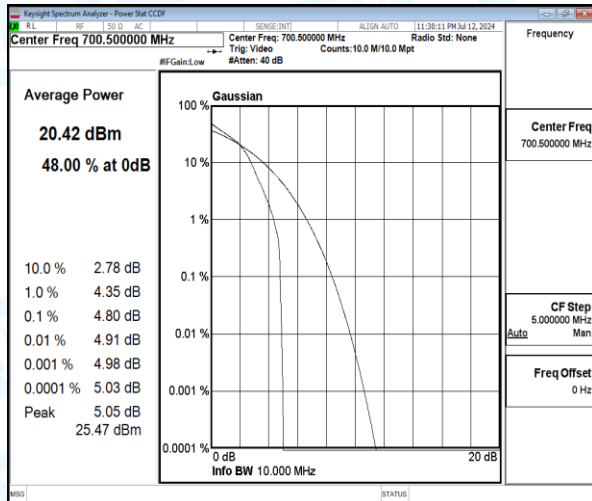
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Band12-3MHz-QPSK-23095-6-0-Low-4.85-<=13-PASS



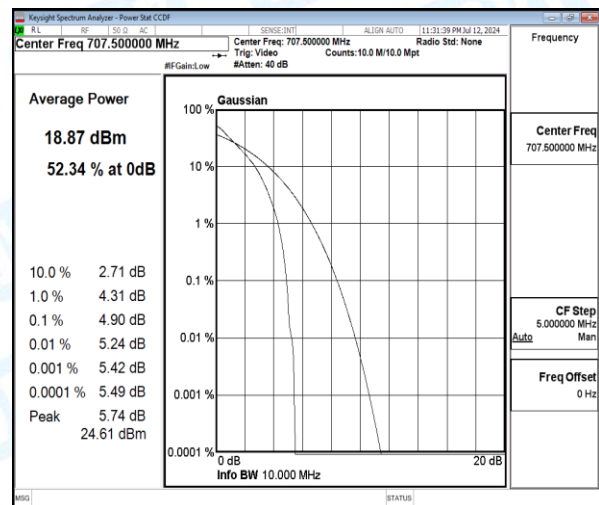
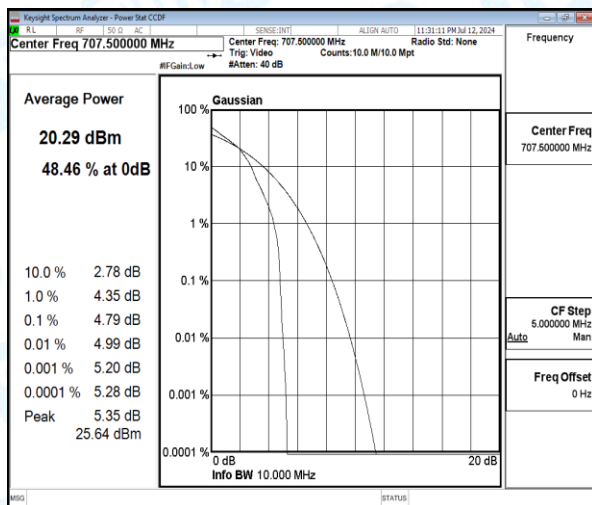
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Band12-3MHz-QPSK-23165-6-0-High-4.86-<=13-PASS



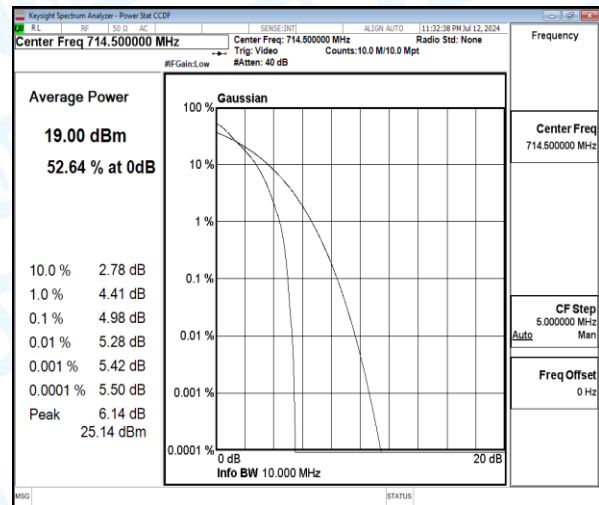
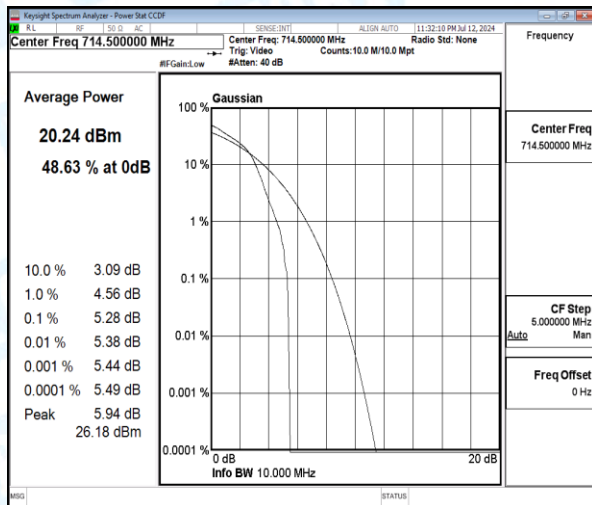
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Band12-3MHz-16QAM-23025-6-0-Low-5.02-<=13-PASS



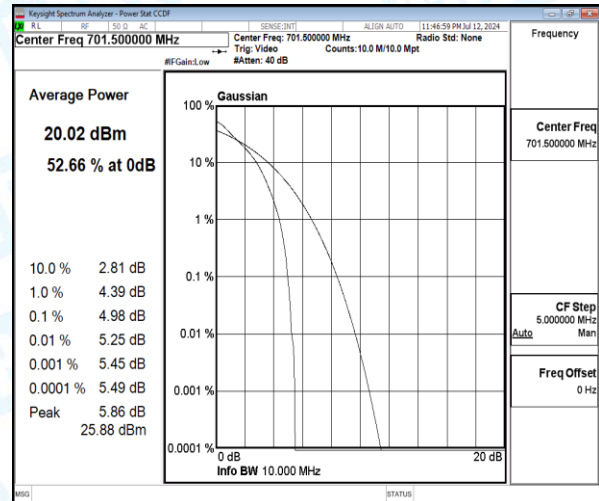
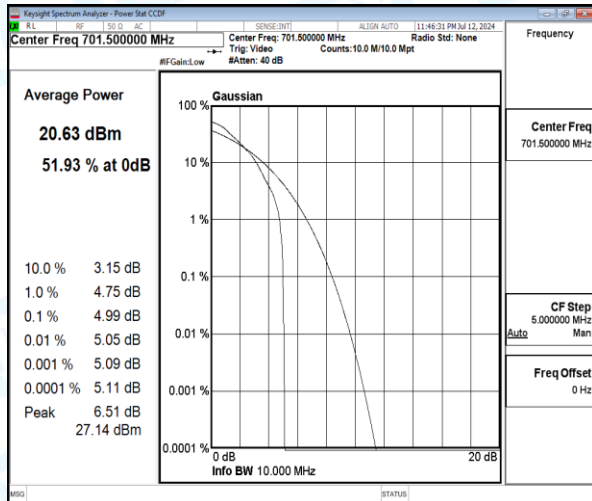
Band12-3MHz-16QAM-23095-1-0-Low-4.79-<=13-PASS

Band12-3MHz-16QAM-23095-6-0-Low-4.90-<=13-PASS



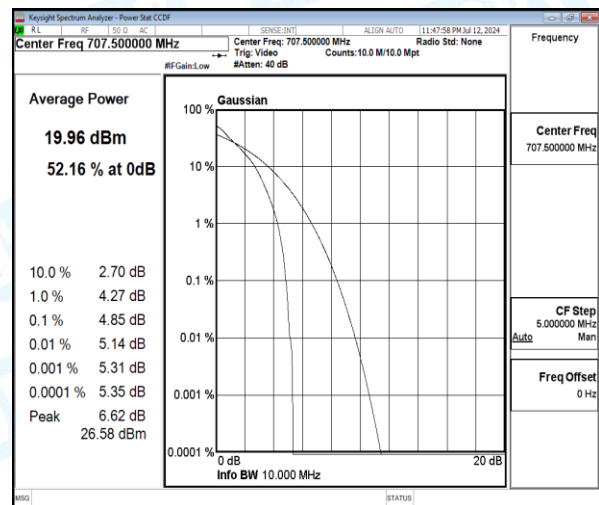
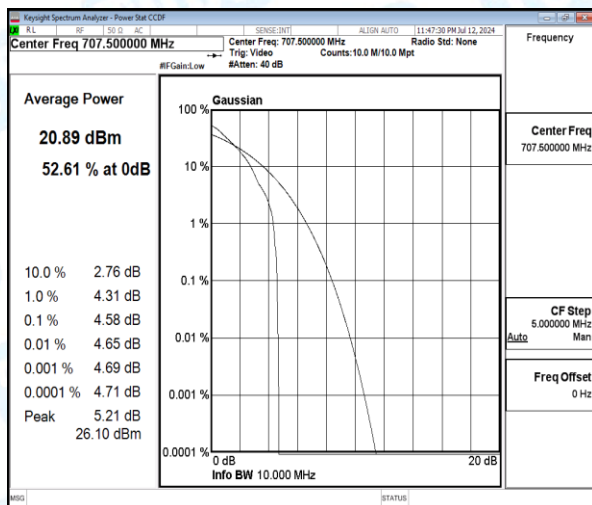
Band12-3MHz-16QAM-23165-1-0-High-5.28-<=13-PASS

Band12-3MHz-16QAM-23165-6-0-High-4.98-<=13-PASS



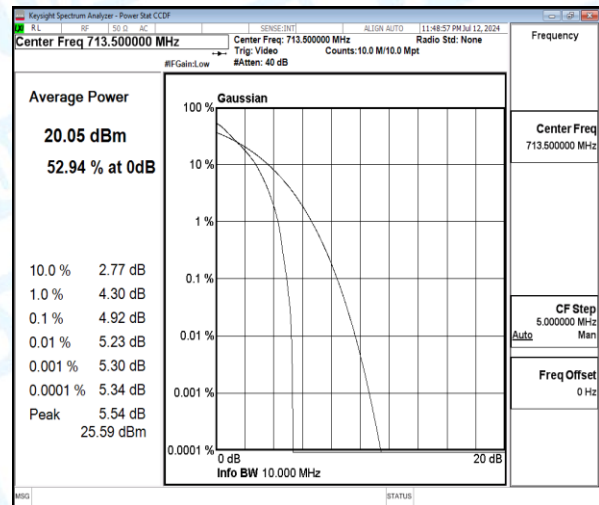
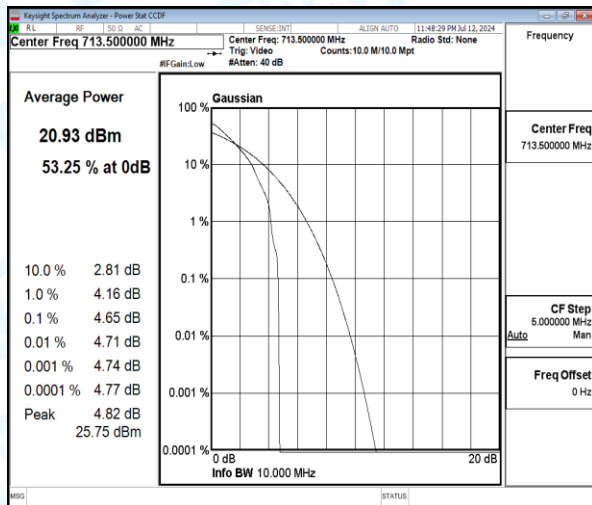
Band12-5MHz-QPSK-23035-1-0-Low-4.99-<=13-PASS

Band12-5MHz-QPSK-23035-6-0-Low-4.98-<=13-PASS



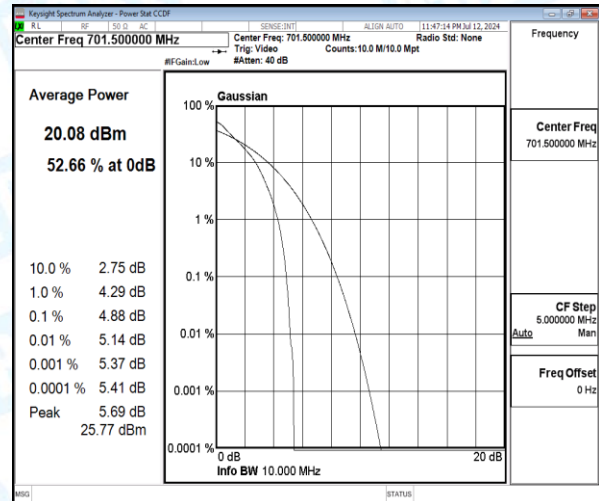
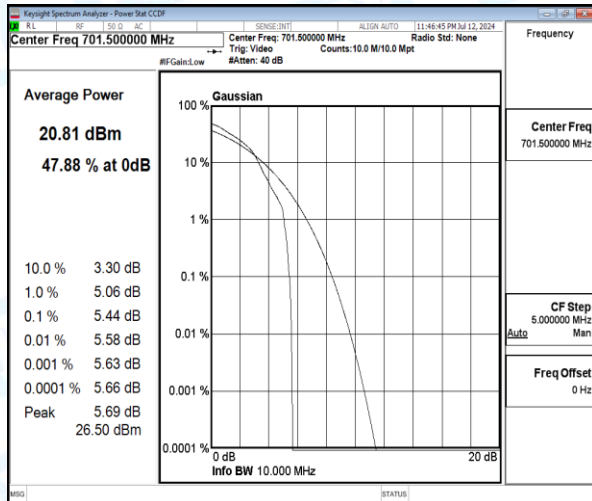
Band12-5MHz-QPSK-23095-1-0-Low-4.58-<=13-PASS

Band12-5MHz-QPSK-23095-6-0-Low-4.85-<=13-PASS



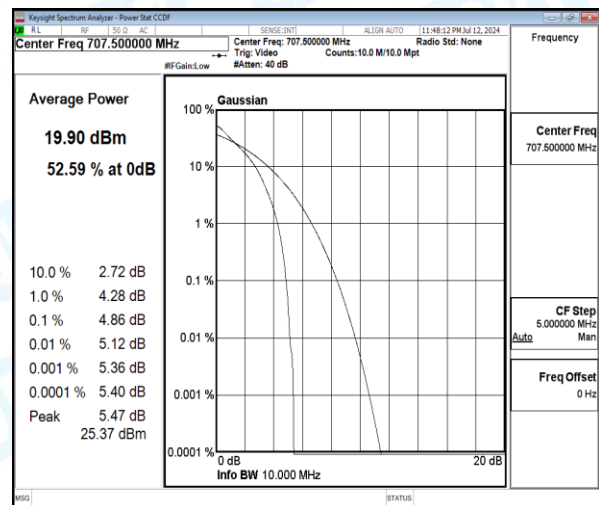
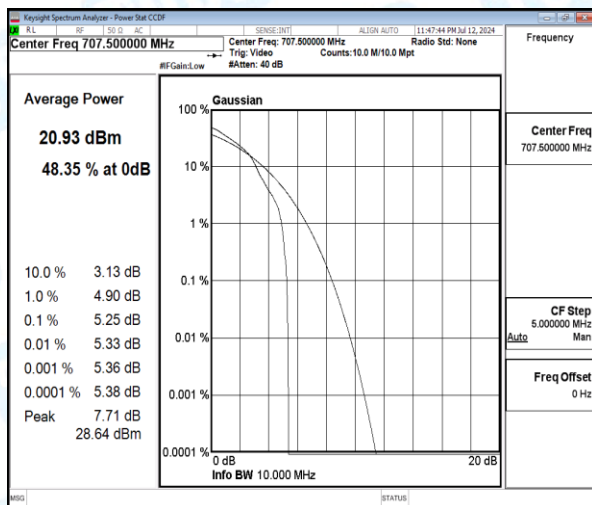
Band12-5MHz-QPSK-23155-1-0-High-4.65-=<=13-PASS

Band12-5MHz-QPSK-23155-6-0-High-4.92-=<=13-PASS



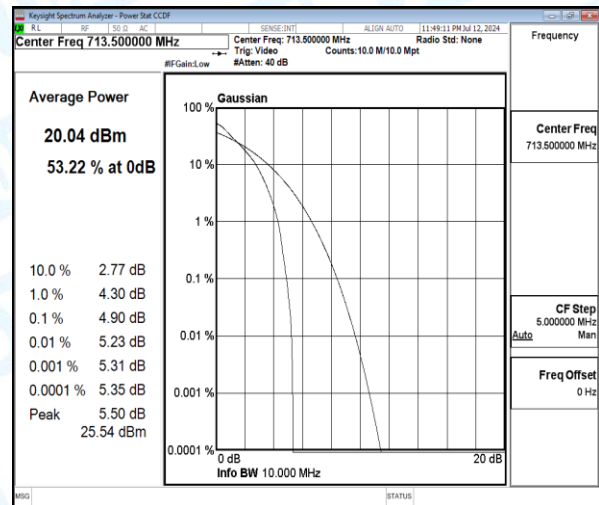
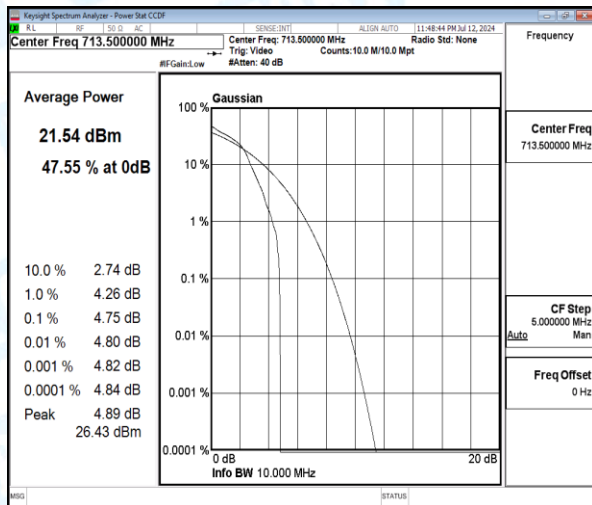
Band12-5MHz-16QAM-23035-1-0-Low-5.44-=<=13-PASS

Band12-5MHz-16QAM-23035-6-0-Low-4.88-=<=13-PASS



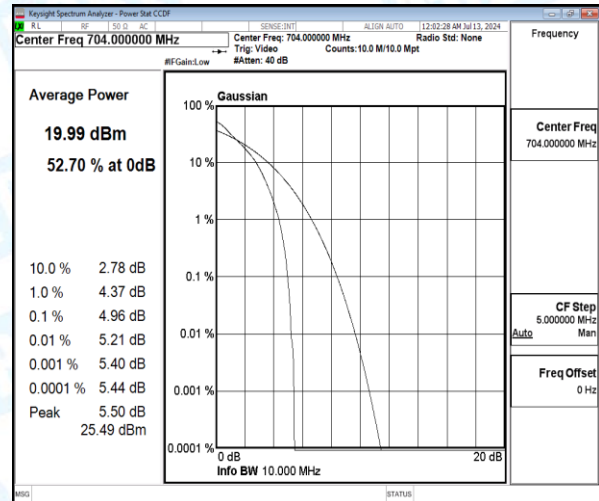
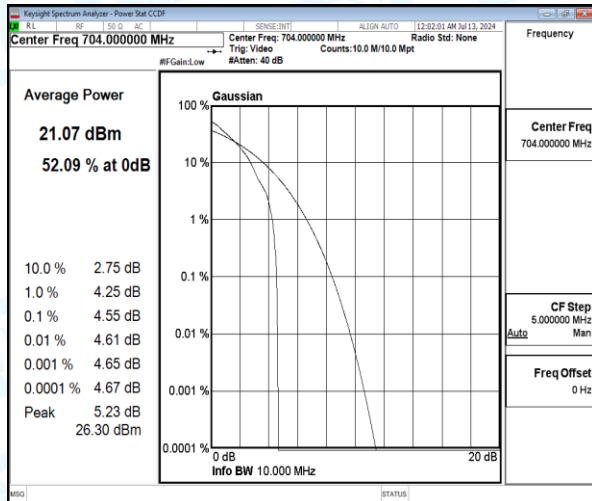
Band12-5MHz-16QAM-23095-1-0-Low-5.25-=<=13-PASS

Band12-5MHz-16QAM-23095-6-0-Low-4.86-=<=13-PASS



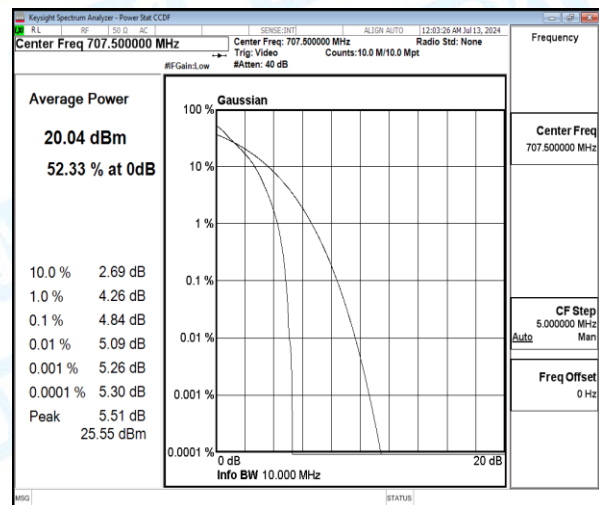
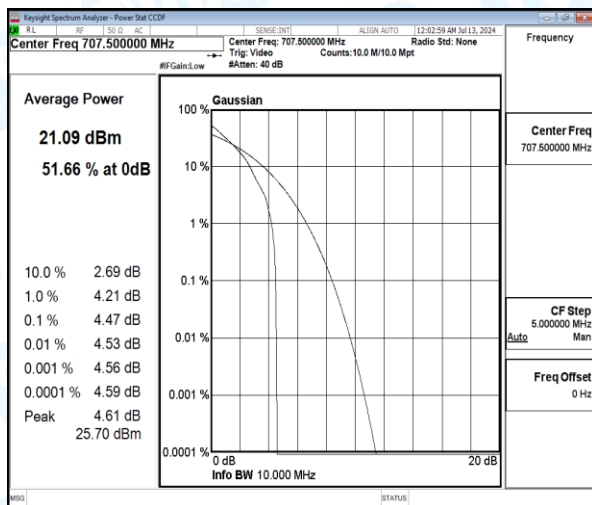
Band12-5MHz-16QAM-23155-1-0-High-4.75-=<13-PASS

Band12-5MHz-16QAM-23155-6-0-High-4.90-=<13-PASS



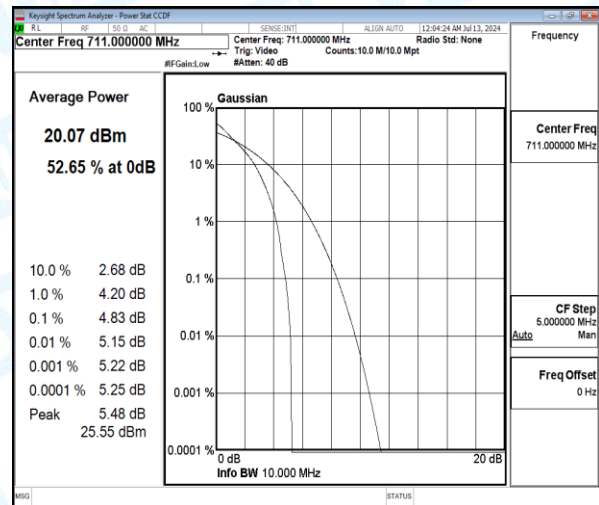
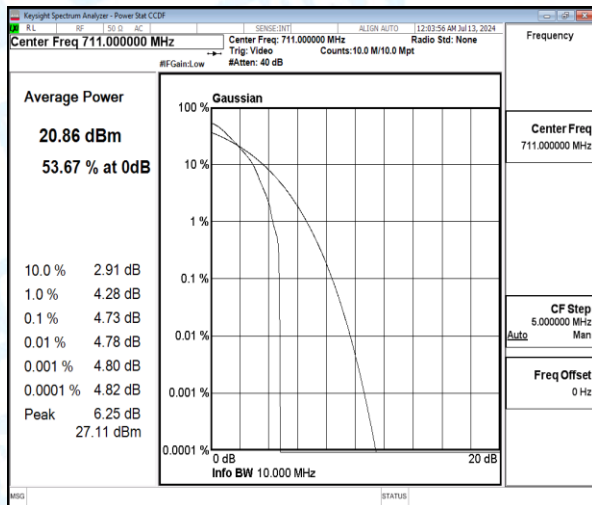
Band12-10MHz-QPSK-23060-1-0-Low-4.55-=<13-PASS

Band12-10MHz-QPSK-23060-6-0-Low-4.96-=<13-PASS



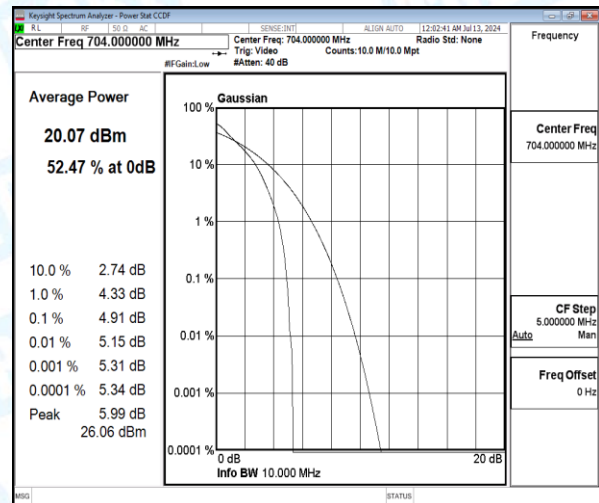
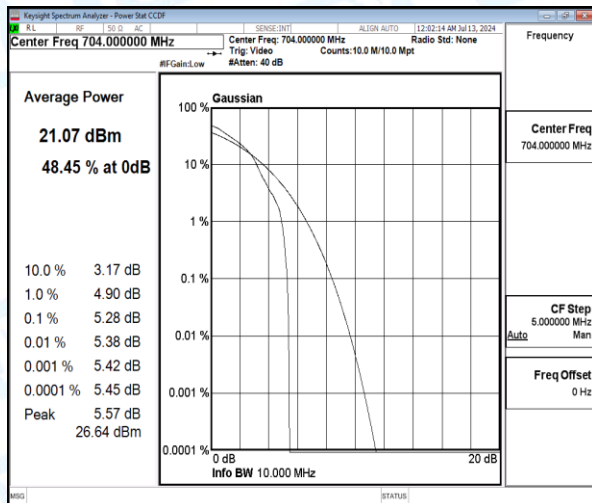
Band12-10MHz-QPSK-23095-1-0-Low-4.47-=<13-PASS

Band12-10MHz-QPSK-23095-6-0-Low-4.84-=<13-PASS



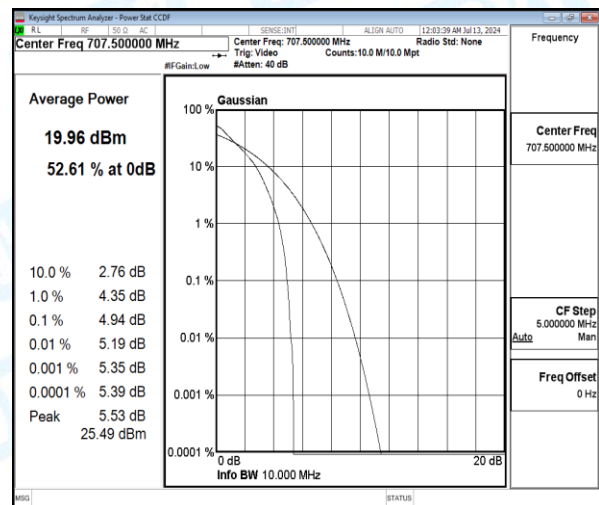
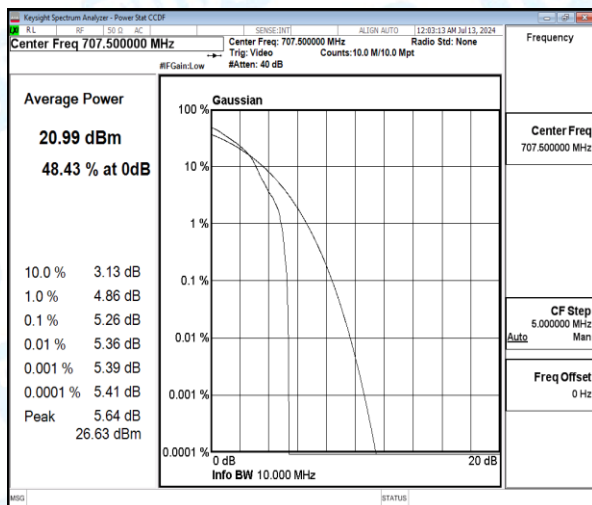
Band12-10MHz-QPSK-23130-1-0-High-4.73-<=13-PASS

Band12-10MHz-QPSK-23130-6-0-High-4.83-<=13-PASS



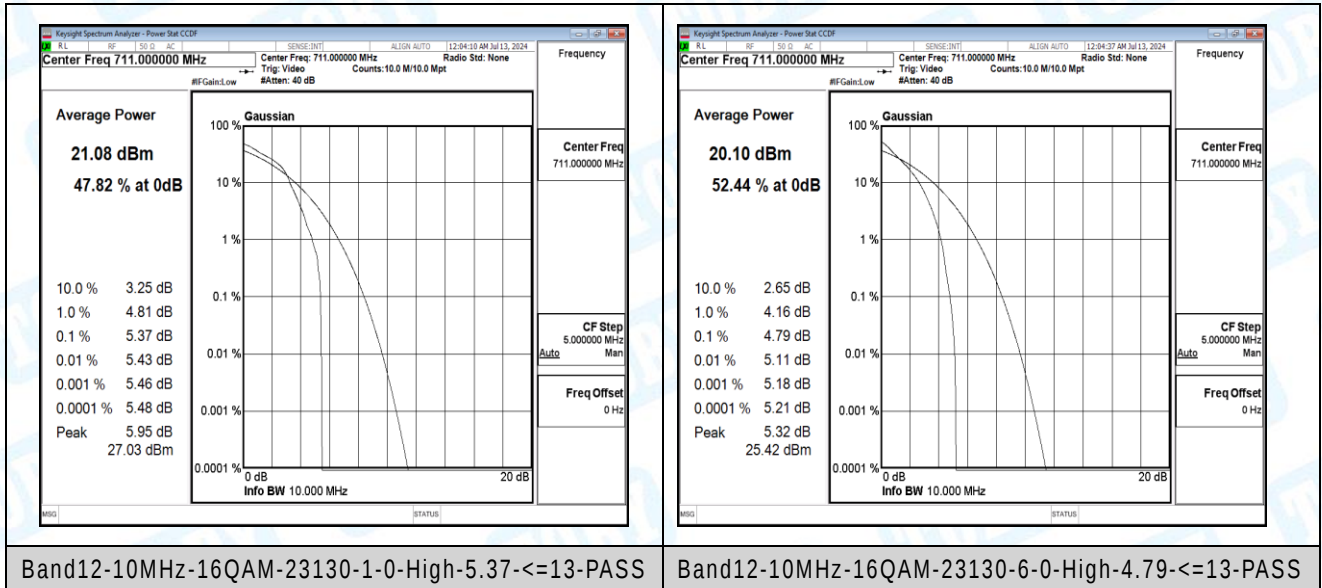
Band12-10MHz-16QAM-23060-1-0-Low-5.28-<=13-PASS

Band12-10MHz-16QAM-23060-6-0-Low-4.91-<=13-PASS



Band12-10MHz-16QAM-23095-1-0-Low-5.26-<=13-PASS

Band12-10MHz-16QAM-23095-6-0-Low-4.94-<=13-PASS



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	1.0994	1.327	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	1.0981	1.301	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.0959	1.293	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1.1004	1.312	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	1.0983	1.295	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	1.1005	1.284	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.1214	1.407	PASS
Band12	3MHz	23095	QPSK	6	0	Low	1.1230	1.325	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.1118	1.363	PASS
Band12	3MHz	23025	16QAM	6	0	Low	1.1218	1.409	PASS
Band12	3MHz	23095	16QAM	6	0	Low	1.1205	1.316	PASS
Band12	3MHz	23165	16QAM	6	0	High	1.1131	1.372	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.1895	1.424	PASS
Band12	5MHz	23095	QPSK	6	0	Low	1.1788	1.479	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.1837	1.422	PASS
Band12	5MHz	23035	16QAM	6	0	Low	1.1965	1.539	PASS
Band12	5MHz	23095	16QAM	6	0	Low	1.1808	1.502	PASS
Band12	5MHz	23155	16QAM	6	0	High	1.1820	1.416	PASS
Band12	10MHz	23060	QPSK	6	0	Low	1.3266	1.679	PASS
Band12	10MHz	23095	QPSK	6	0	Low	1.3526	1.907	PASS
Band12	10MHz	23130	QPSK	6	0	High	1.3461	2.048	PASS
Band12	10MHz	23060	16QAM	6	0	Low	1.3332	1.690	PASS
Band12	10MHz	23095	16QAM	6	0	Low	1.3529	2.108	PASS
Band12	10MHz	23130	16QAM	6	0	High	1.3474	2.078	PASS

Test Graphs

