

FCC LTE Band Test Data

FCC ID : 2BFI8-TIQMINIM5

Company: : Jinan Ant Zhonglian Information Technology Co., Ltd.

EUT : TIQ mini M5

Model Number : TIQ mini M5

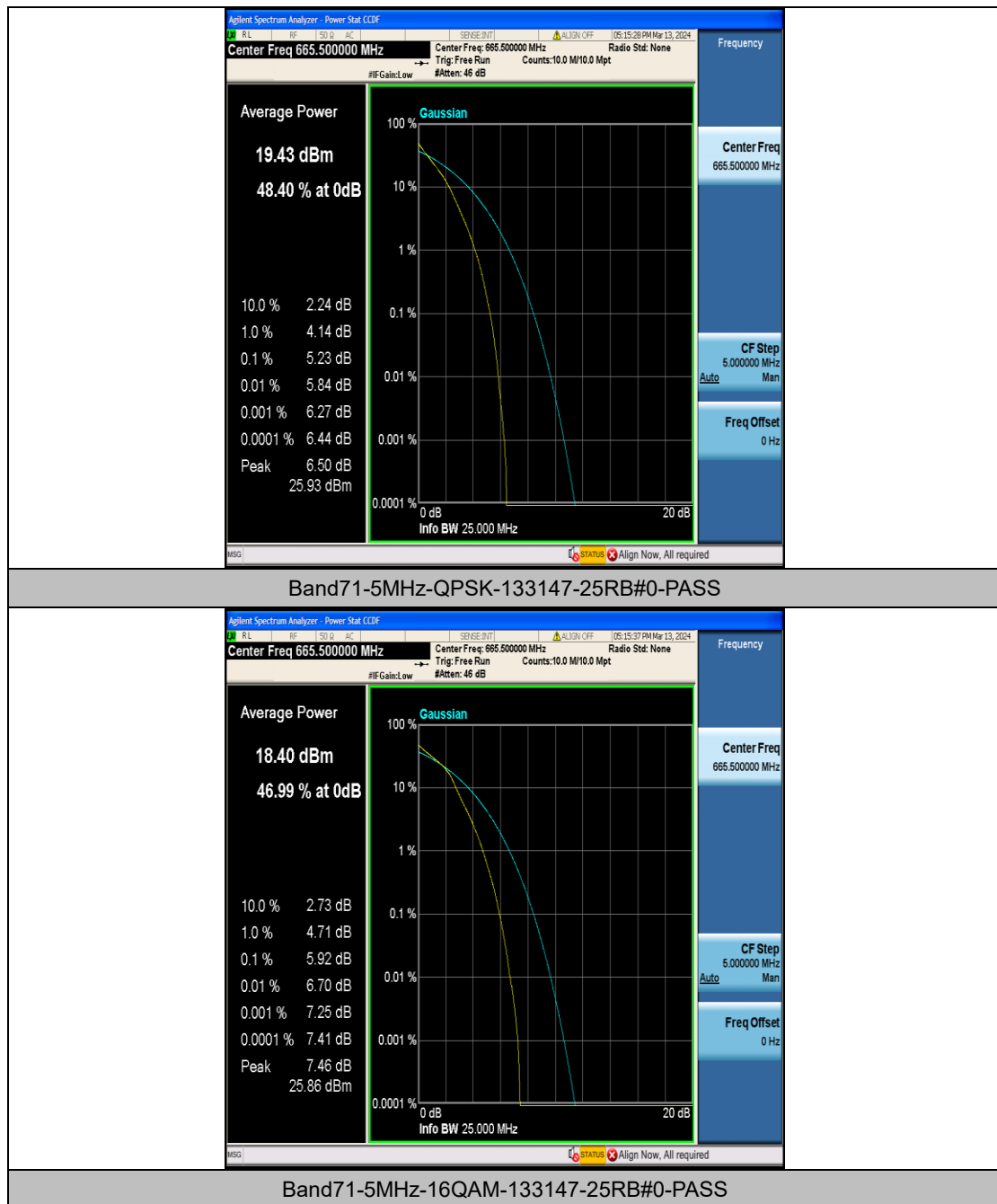
Reviewed By : Eric Wang

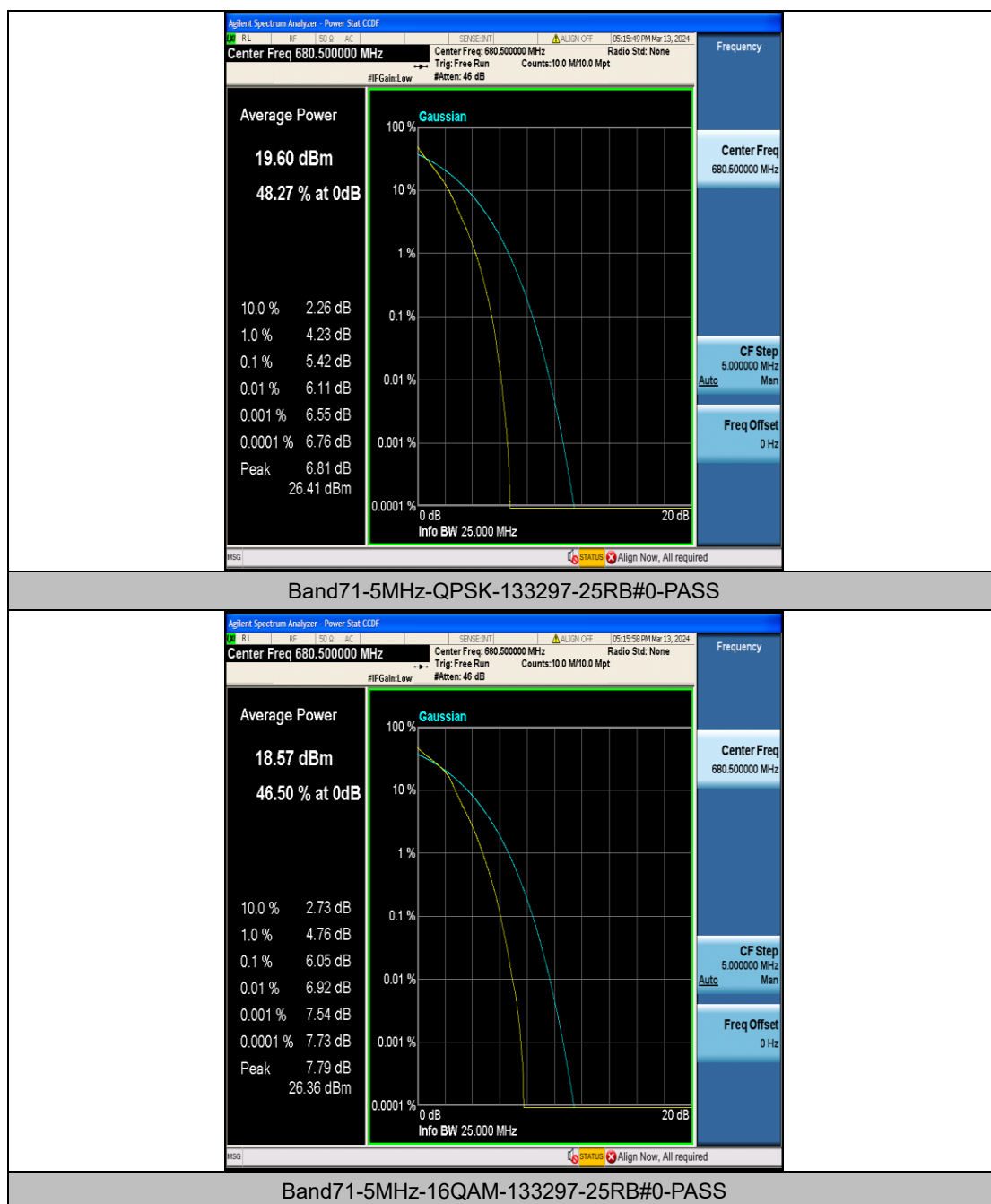
Appendix B: Peak-to-Average Ratio(CCDF)

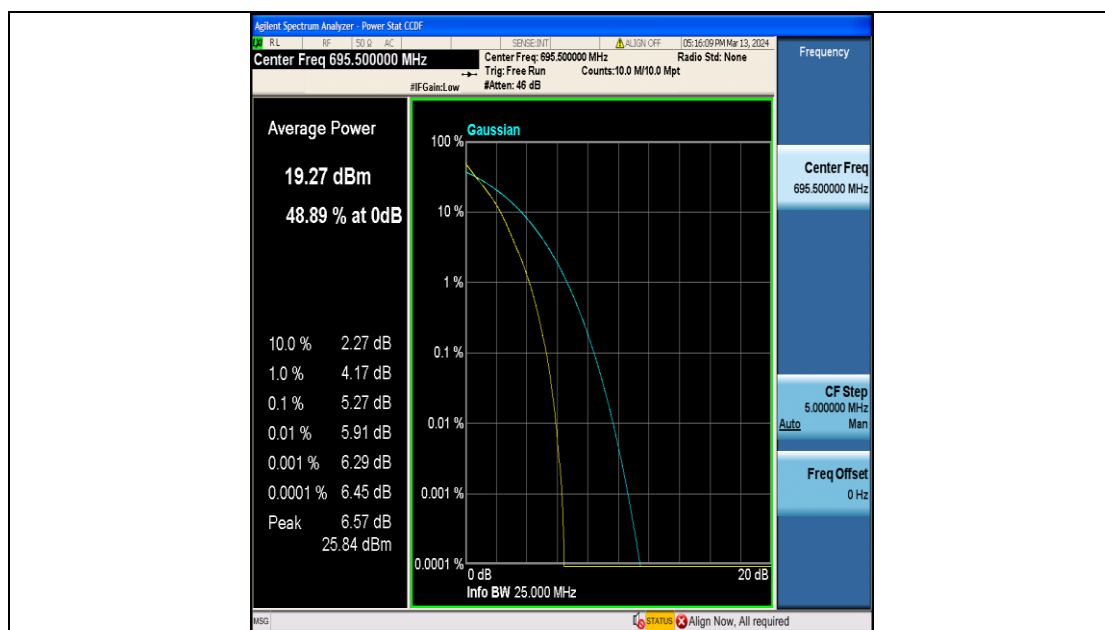
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	5.23	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	5.92	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.42	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.05	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.27	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	5.94	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.33	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.02	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.40	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.07	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.27	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	5.98	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.73	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.18	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.78	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.23	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.63	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.11	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.50	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.17	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.51	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.21	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.41	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.12	13	PASS

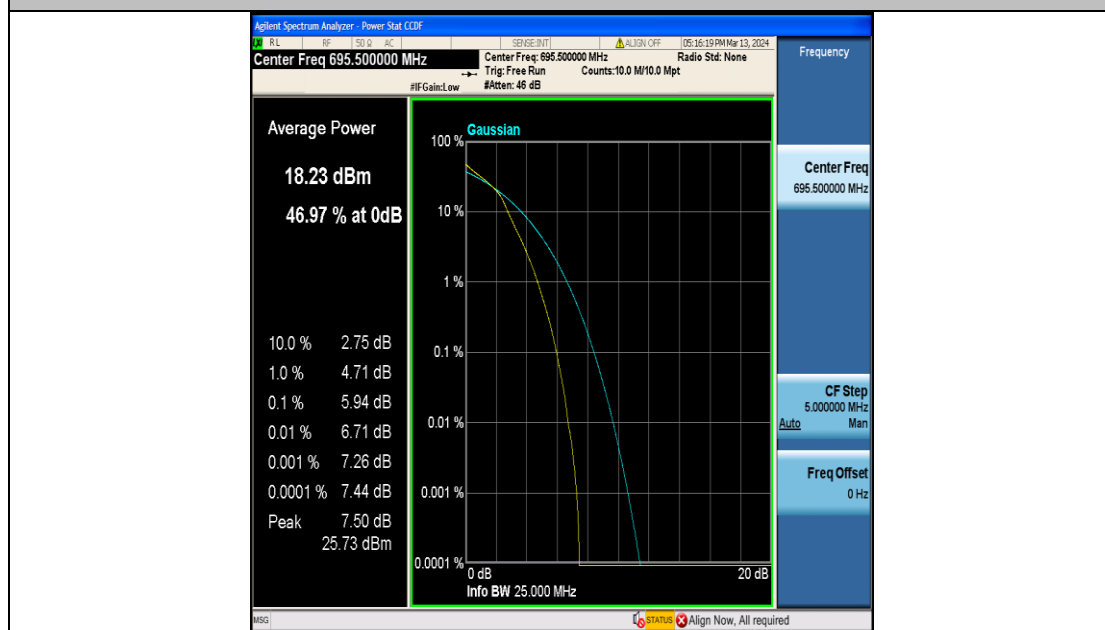
Test Graphs



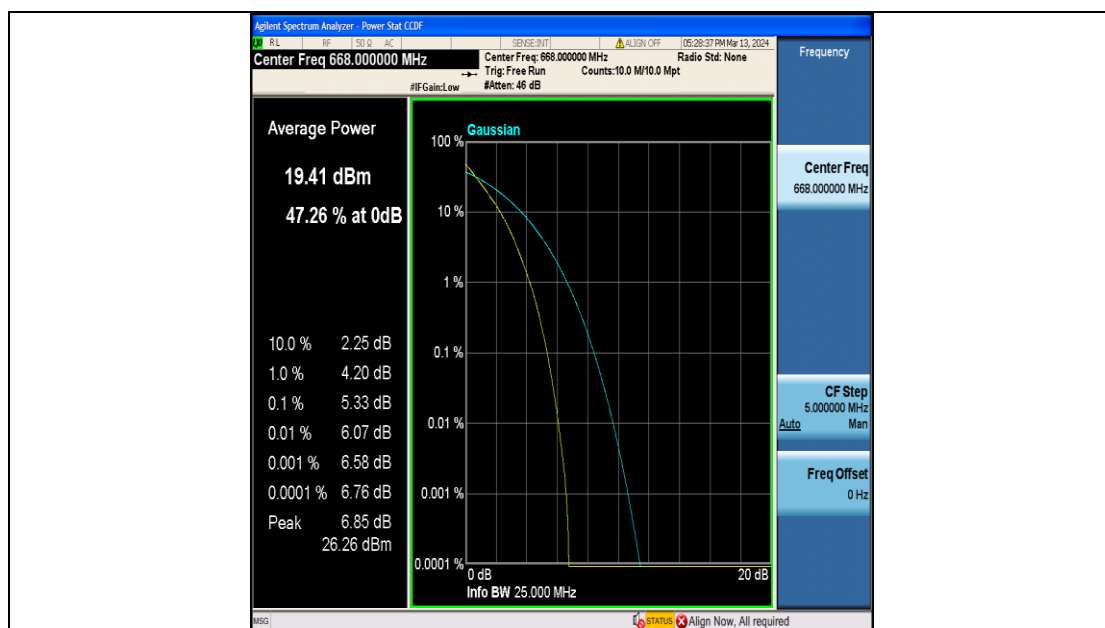




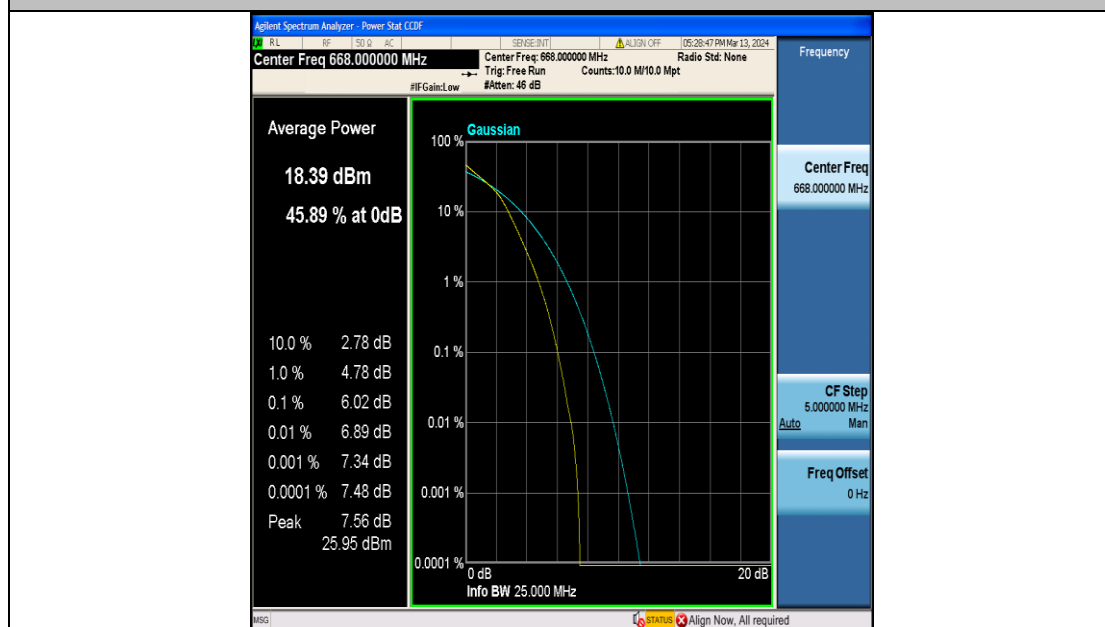
Band71-5MHz-QPSK-133447-25RB#0-PASS



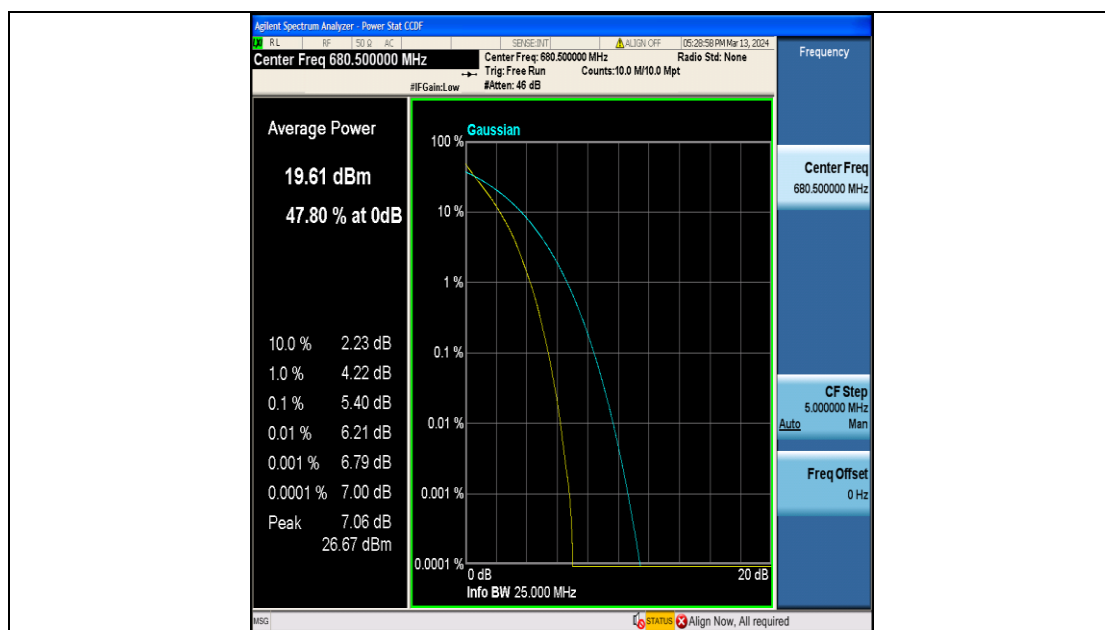
Band71-5MHz-16QAM-133447-25RB#0-PASS



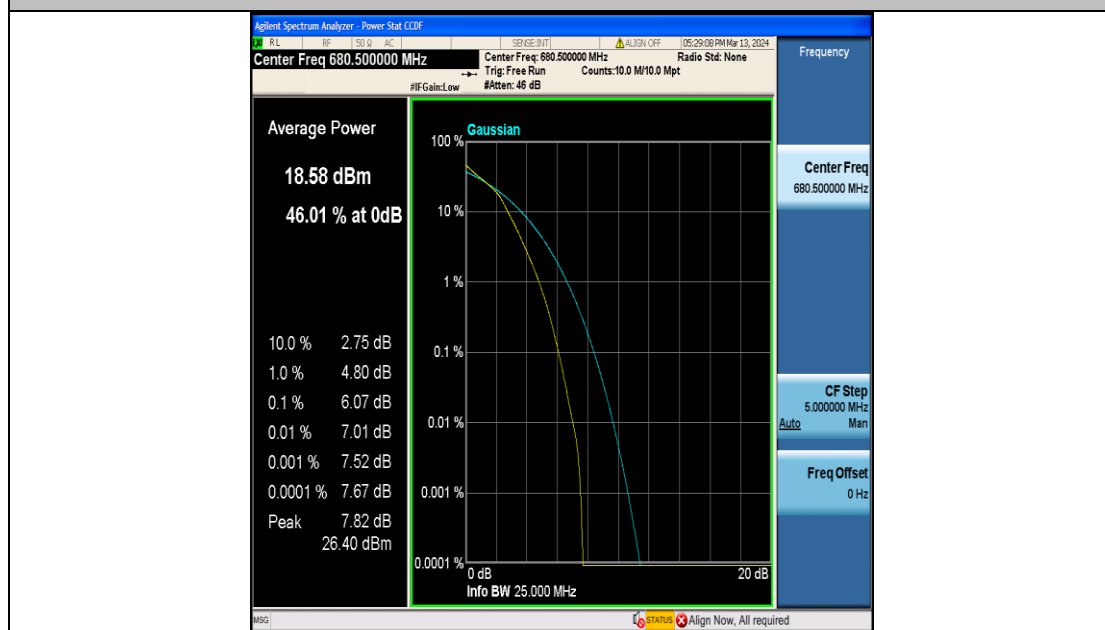
Band71-10MHz-QPSK-133172-50RB#0-PASS



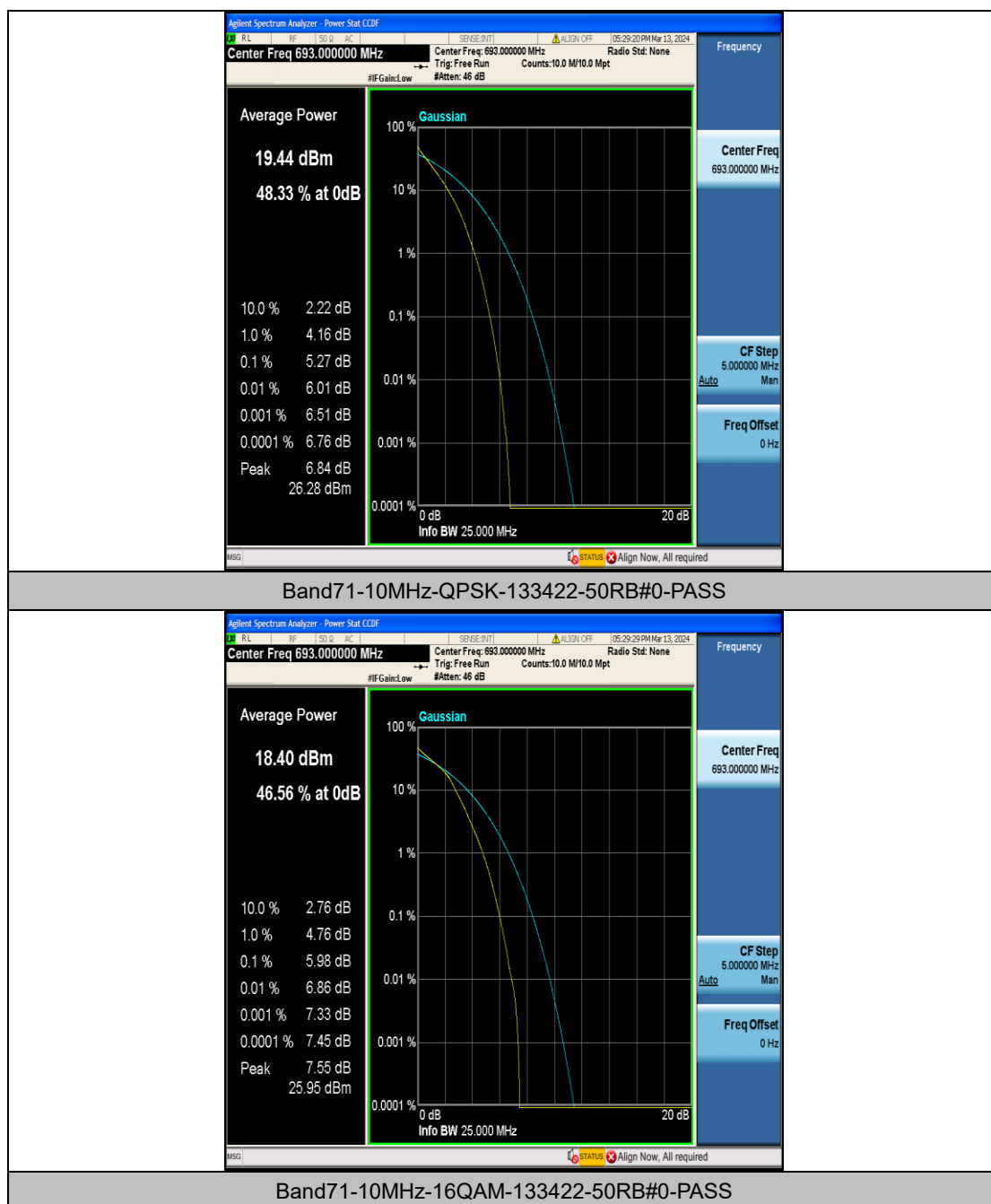
Band71-10MHz-16QAM-133172-50RB#0-PASS

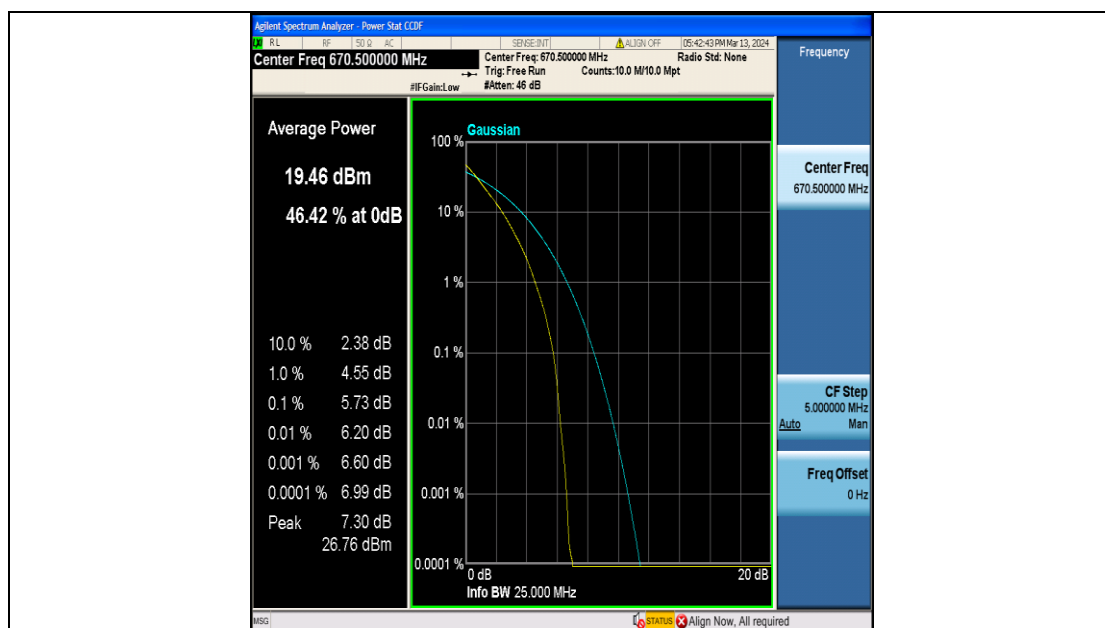


Band71-10MHz-QPSK-133297-50RB#0-PASS

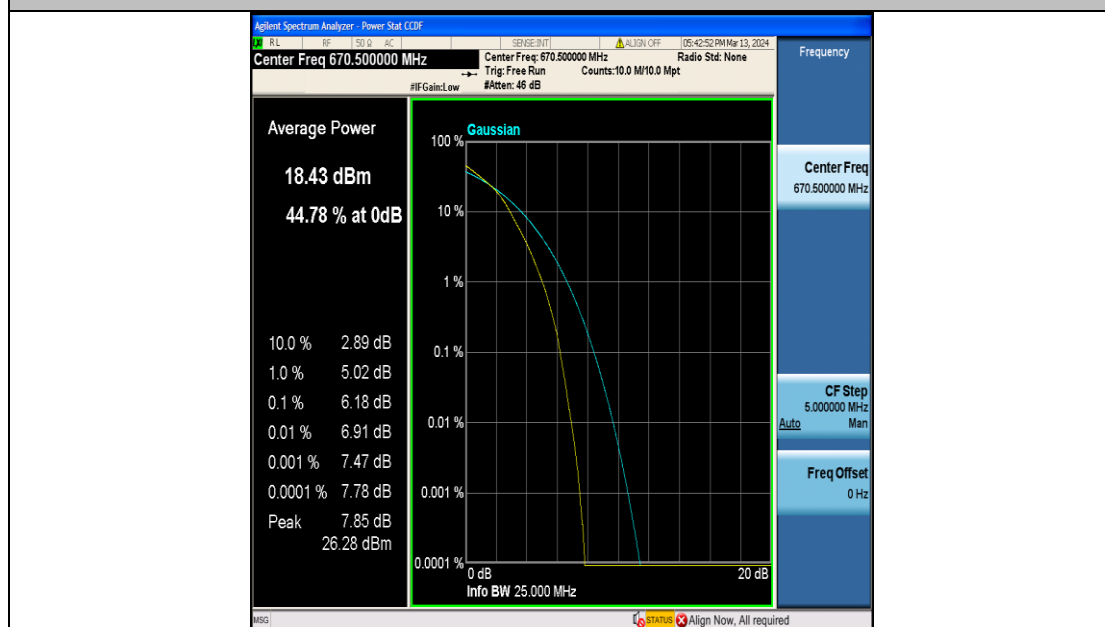


Band71-10MHz-16QAM-133297-50RB#0-PASS

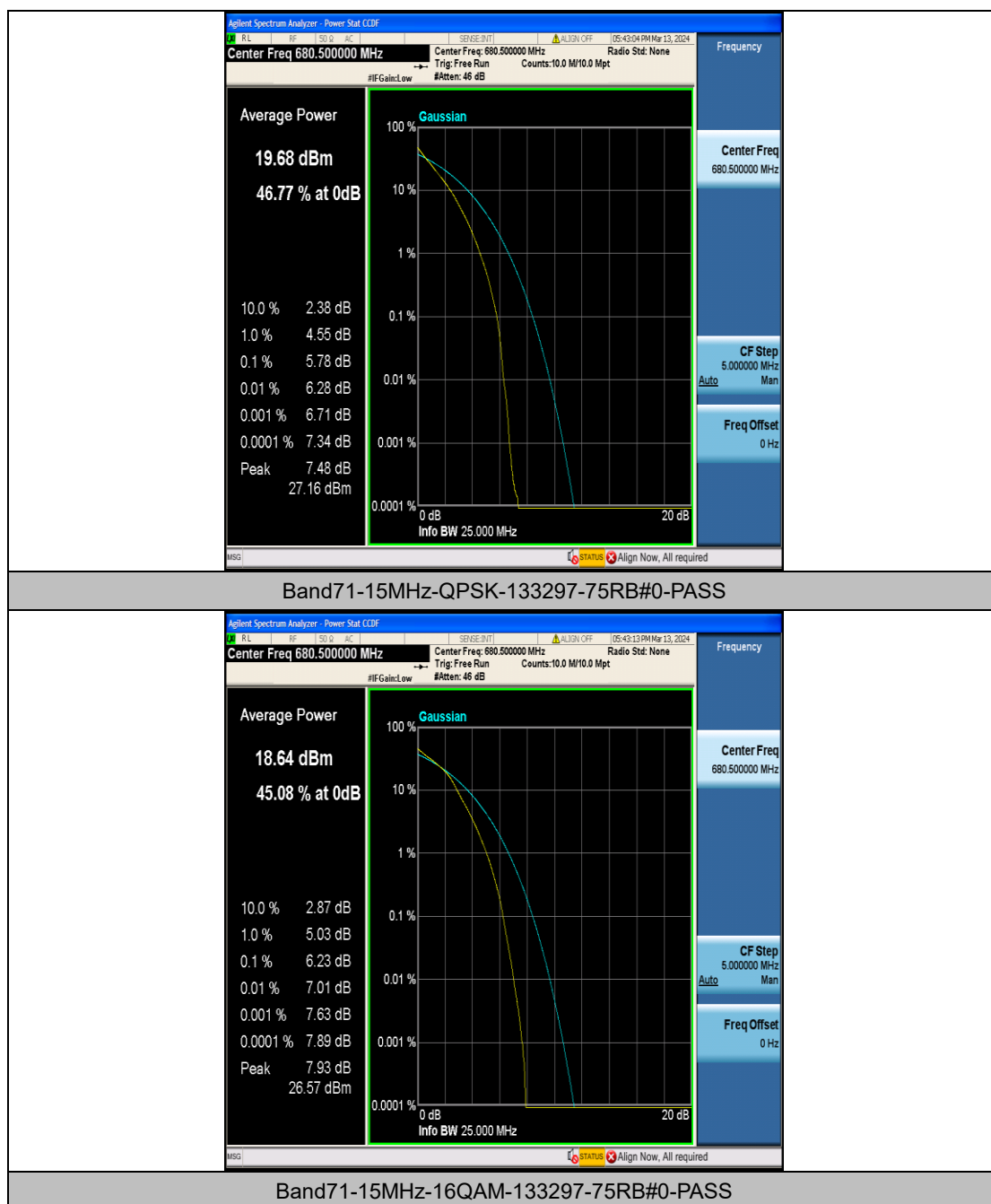


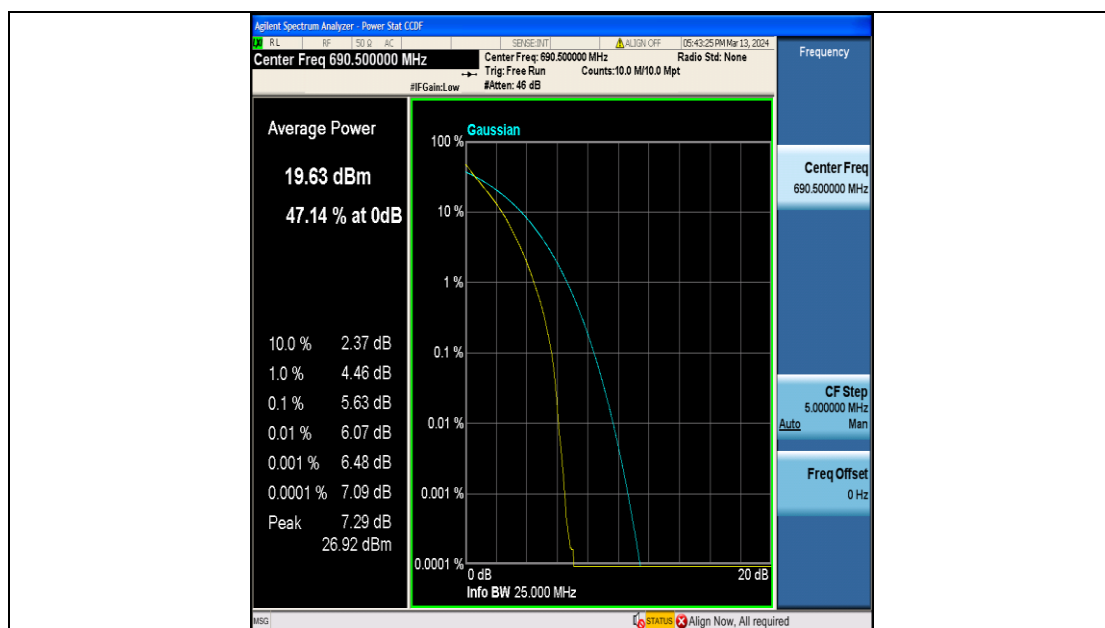


Band71-15MHz-QPSK-133197-75RB#0-PASS

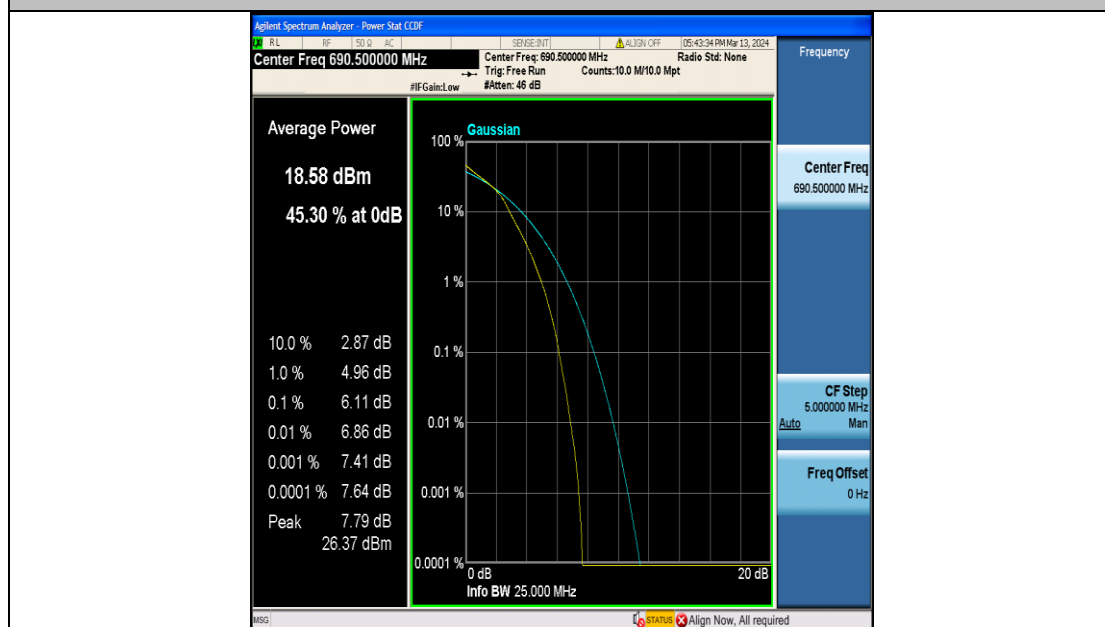


Band71-15MHz-16QAM-133197-75RB#0-PASS

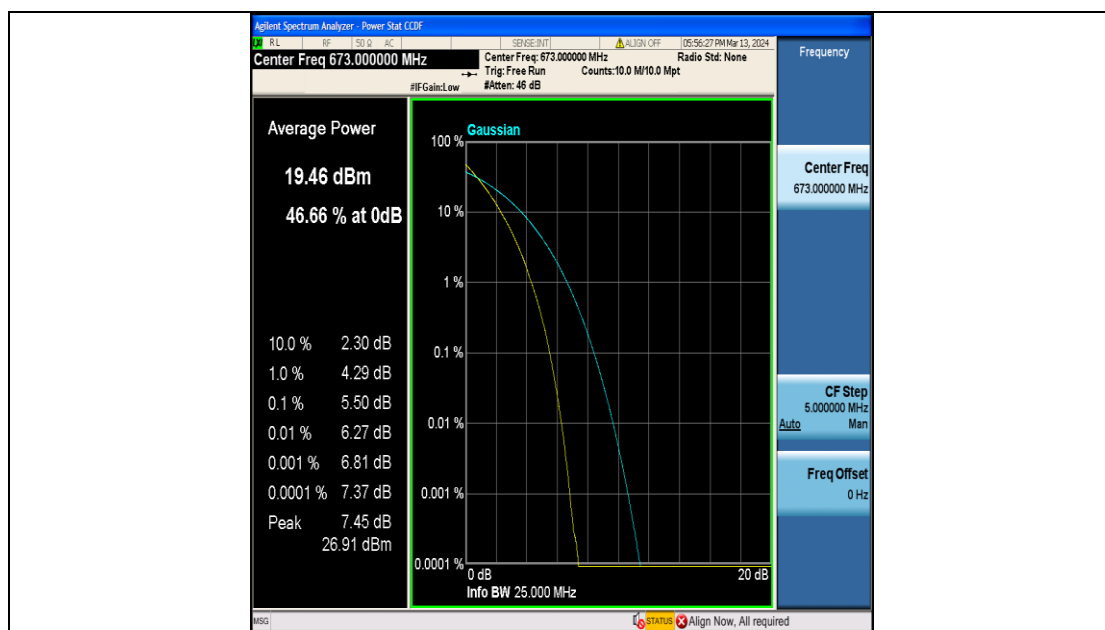




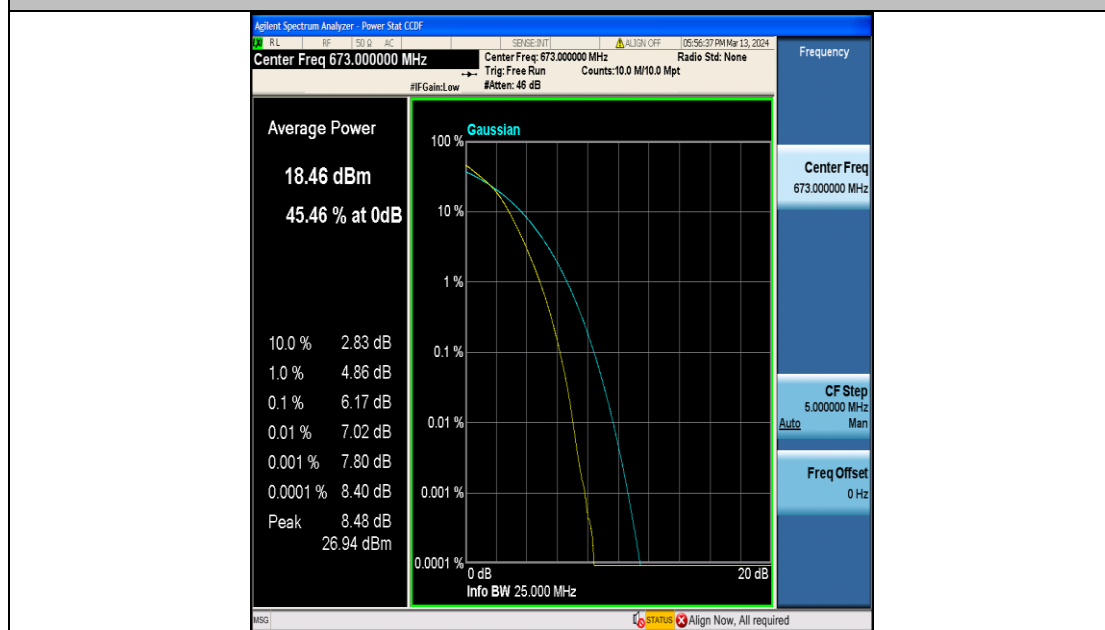
Band71-15MHz-QPSK-133397-75RB#0-PASS



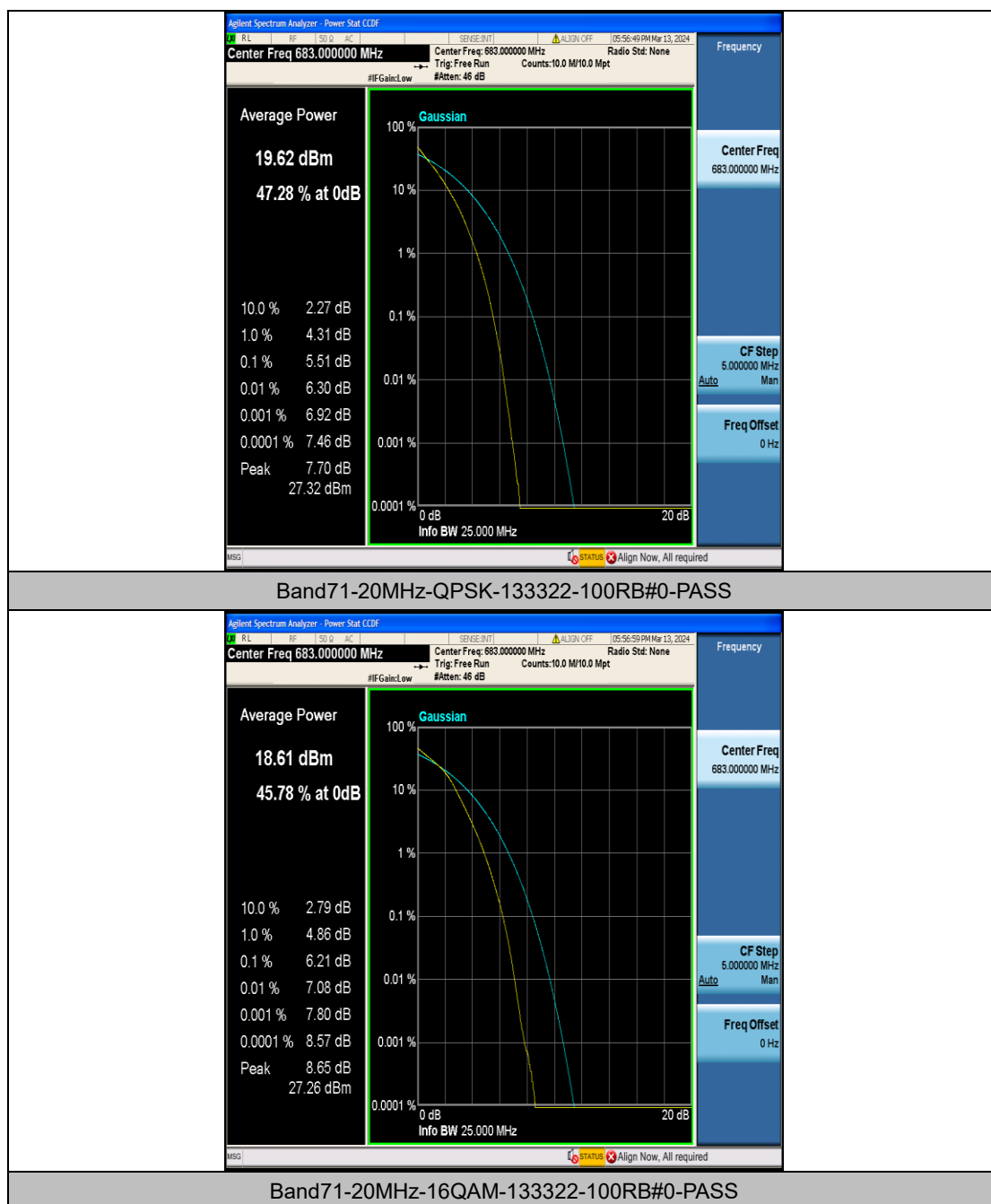
Band71-15MHz-16QAM-133397-75RB#0-PASS

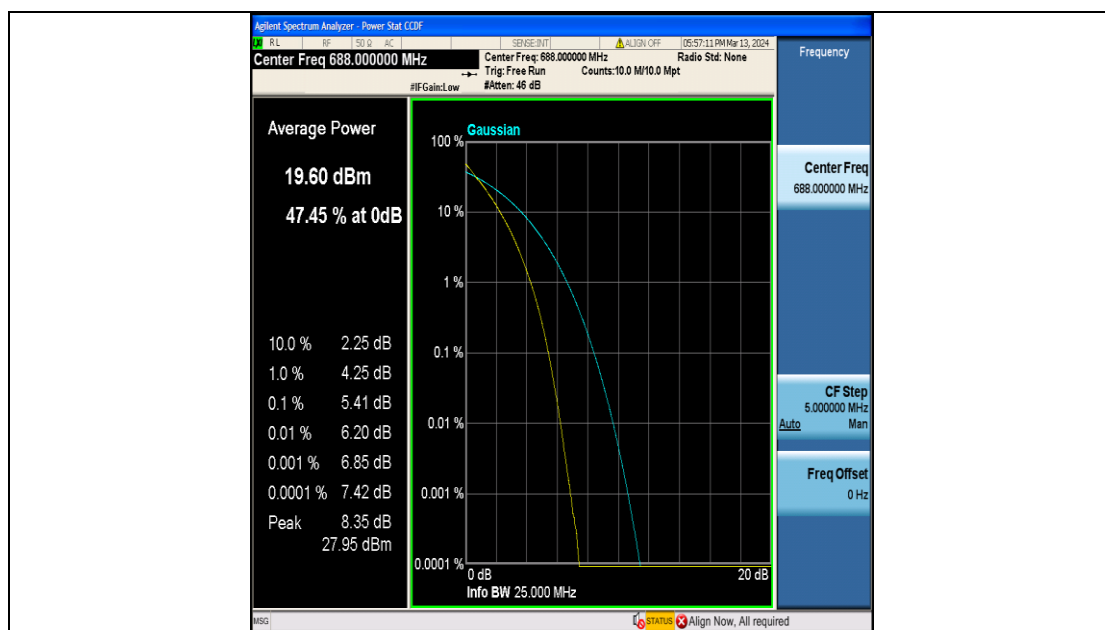


Band71-20MHz-QPSK-133222-100RB#0-PASS

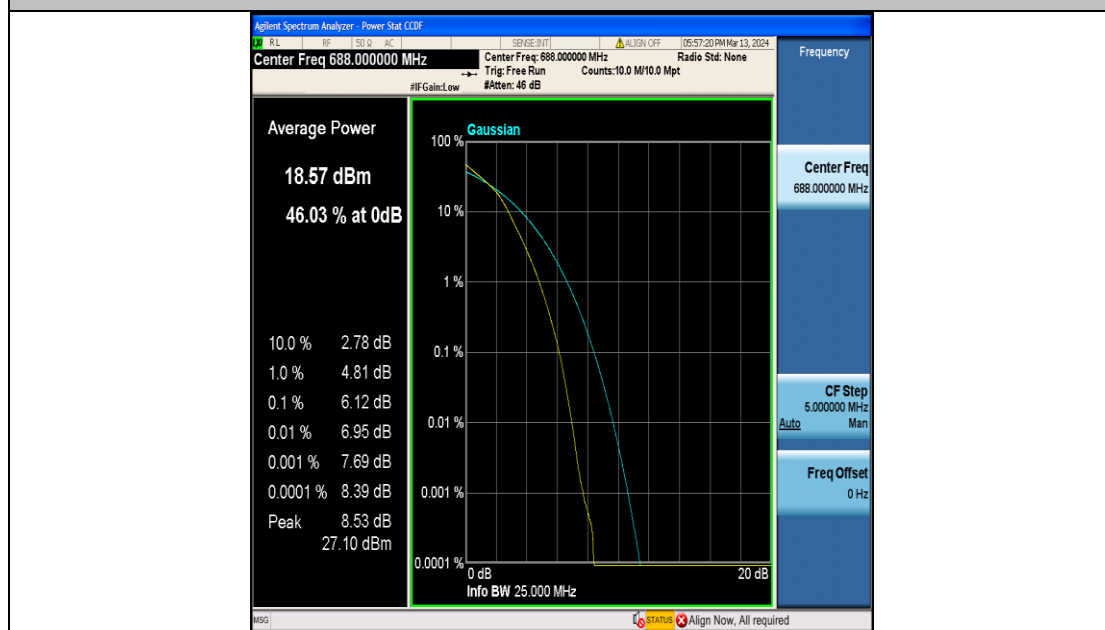


Band71-20MHz-16QAM-133222-100RB#0-PASS





Band71-20MHz-QPSK-133372-100RB#0-PASS



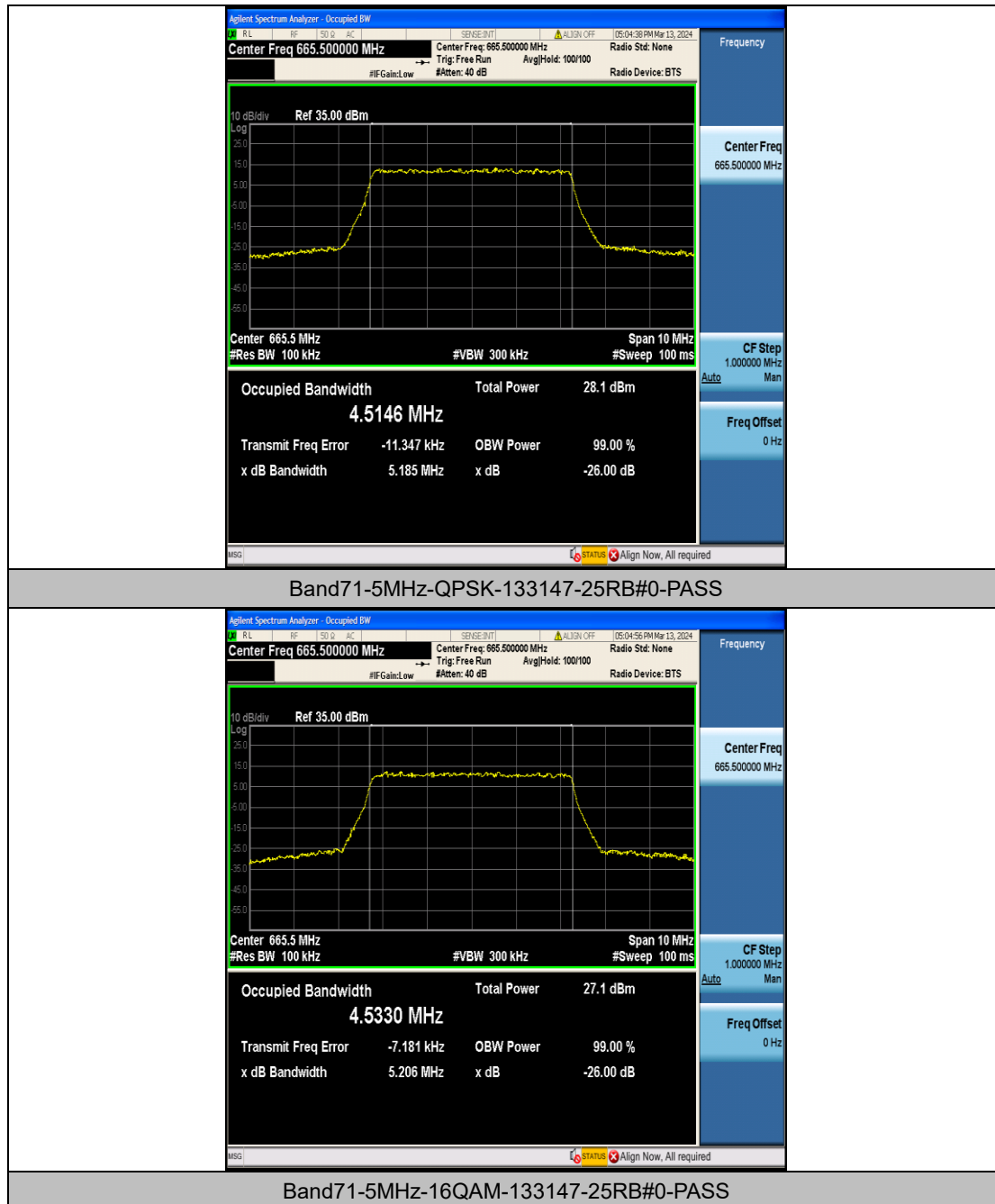
Band71-20MHz-16QAM-133372-100RB#0-PASS

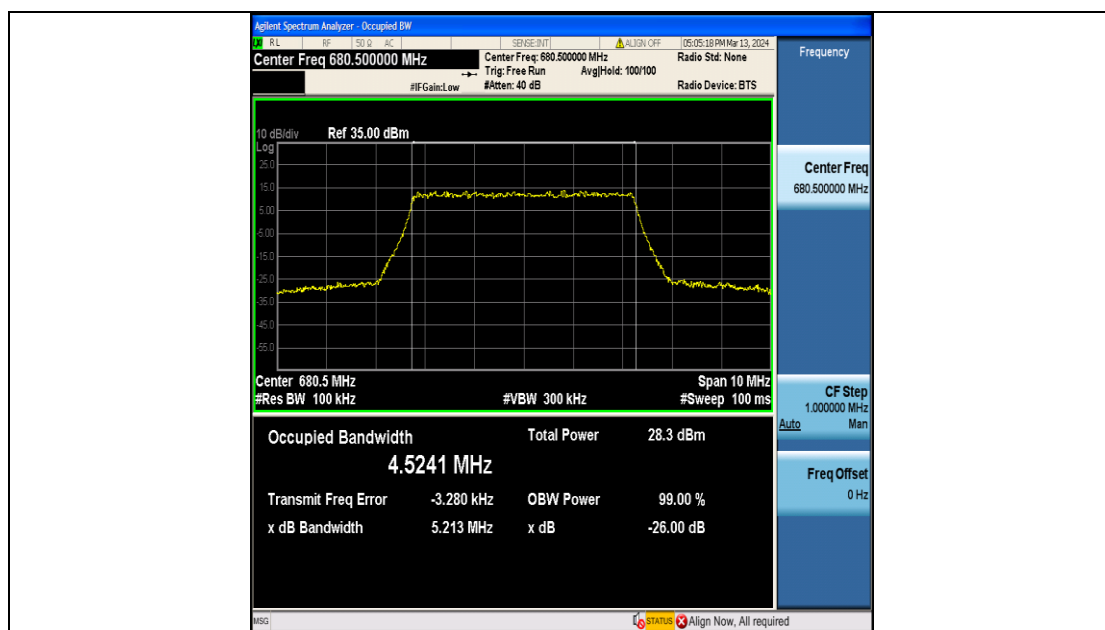
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

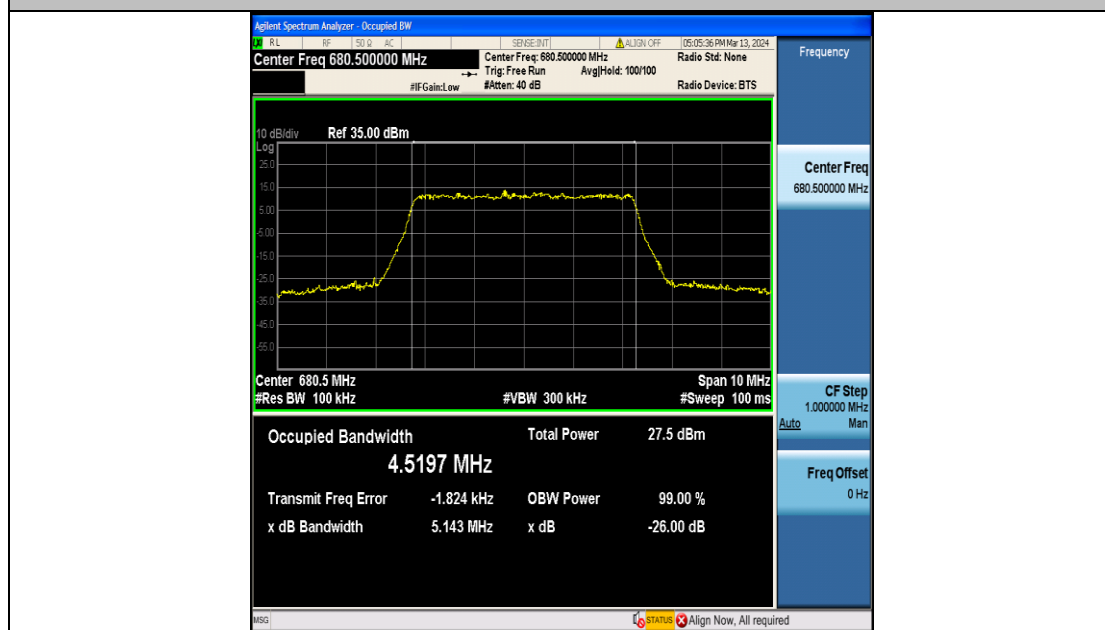
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5146	5.185	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5330	5.206	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5241	5.213	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5197	5.143	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5245	5.192	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5196	5.150	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.0290	10.17	PASS
Band71	10MHz	16QAM	133172	50RB#0	9.0094	10.16	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0152	10.13	PASS
Band71	10MHz	16QAM	133297	50RB#0	9.0125	10.07	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0156	10.15	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.0109	10.04	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.469	15.10	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.514	15.06	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.546	15.13	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.501	15.11	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.525	15.17	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.465	14.99	PASS
Band71	20MHz	QPSK	133222	100RB#0	18.023	20.10	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.979	19.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	18.013	19.84	PASS
Band71	20MHz	16QAM	133322	100RB#0	18.022	19.87	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.965	19.78	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.953	19.74	PASS

Test Graphs

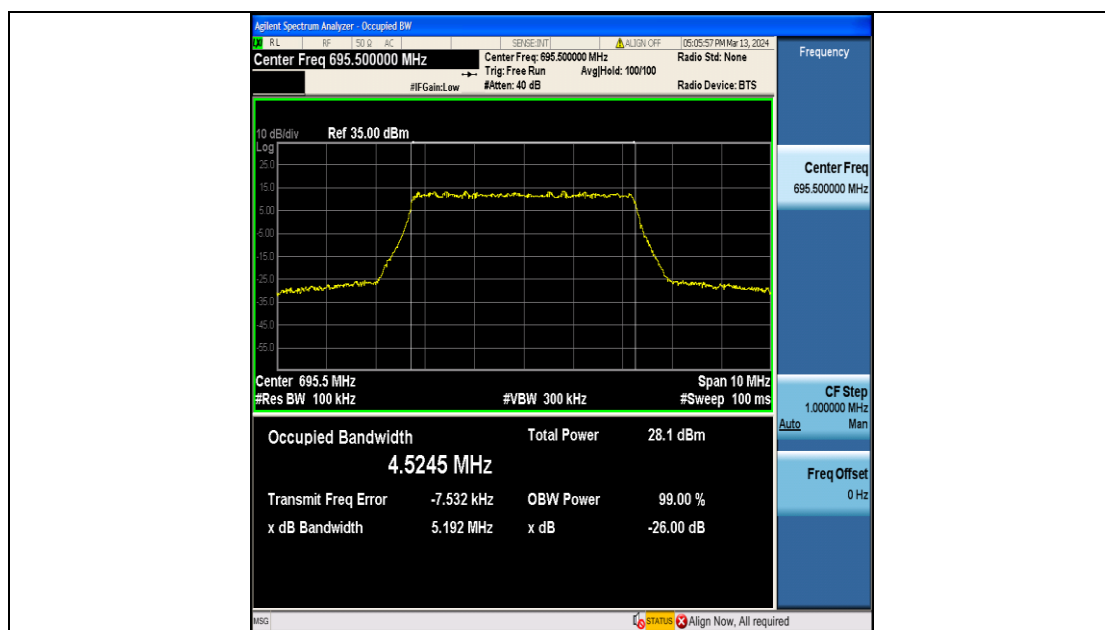




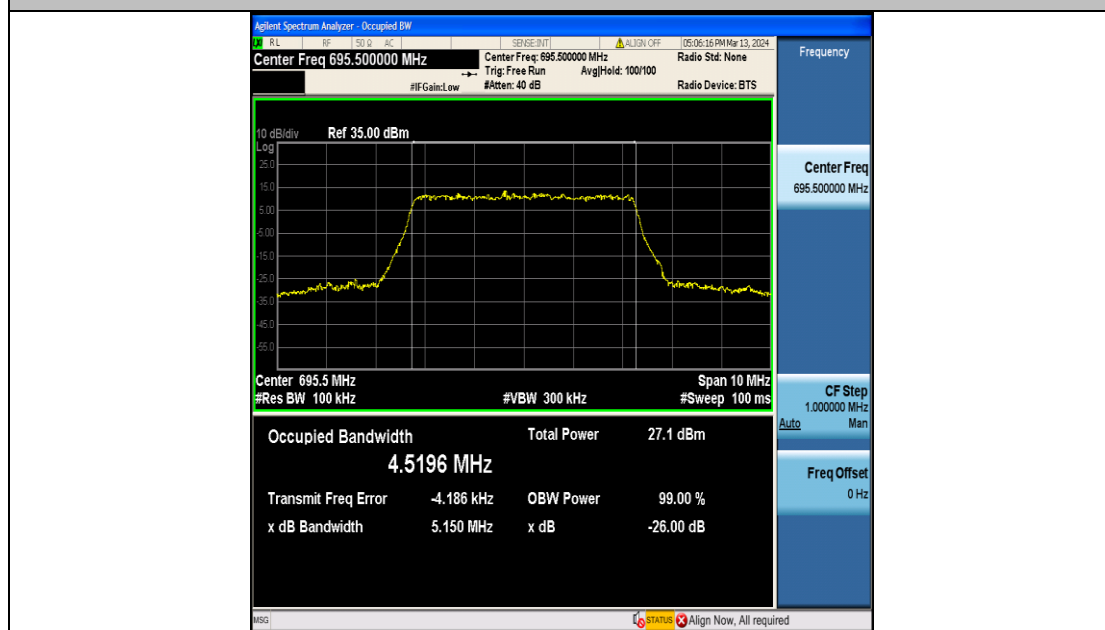
Band71-5MHz-QPSK-133297-25RB#0-PASS



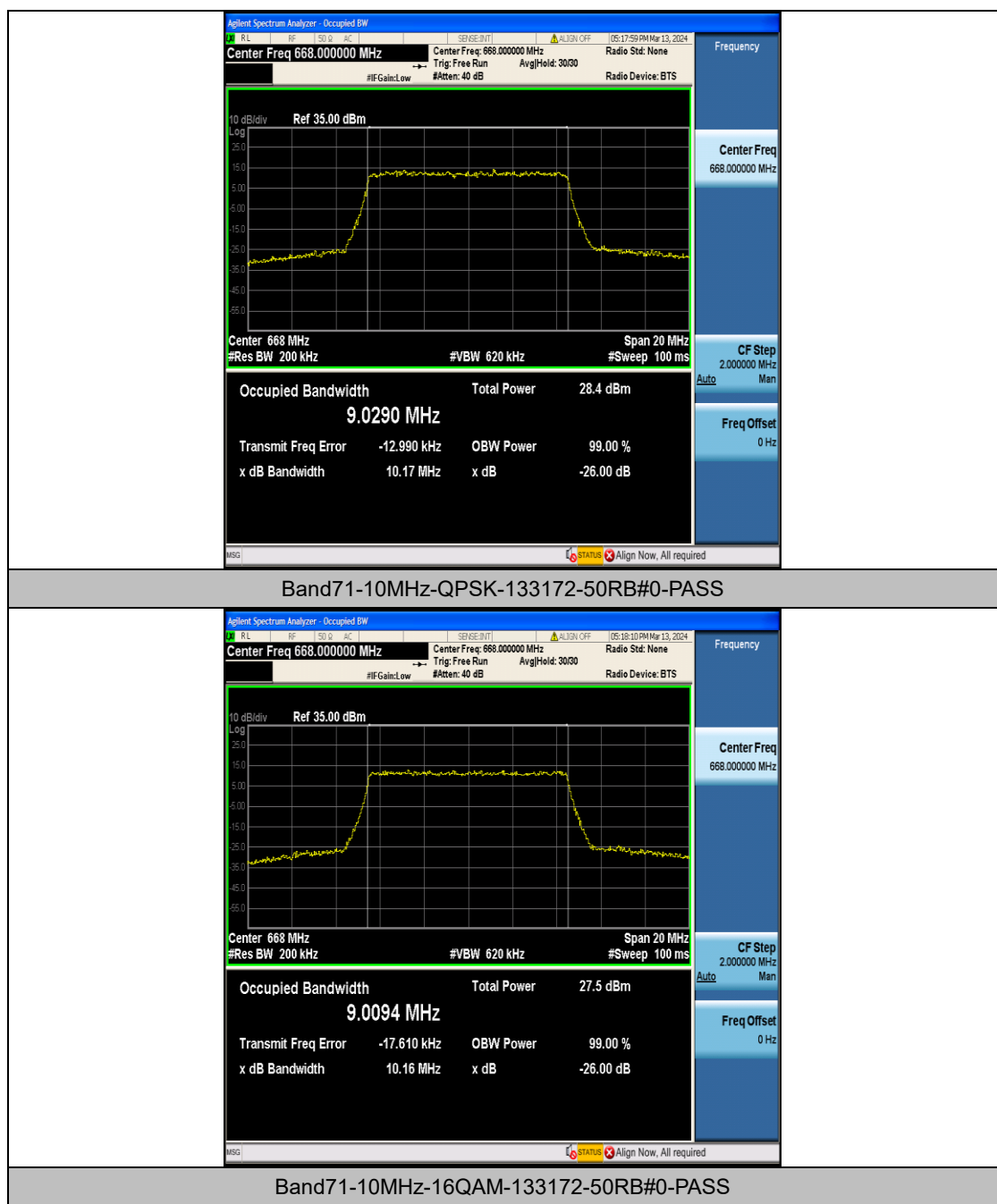
Band71-5MHz-16QAM-133297-25RB#0-PASS

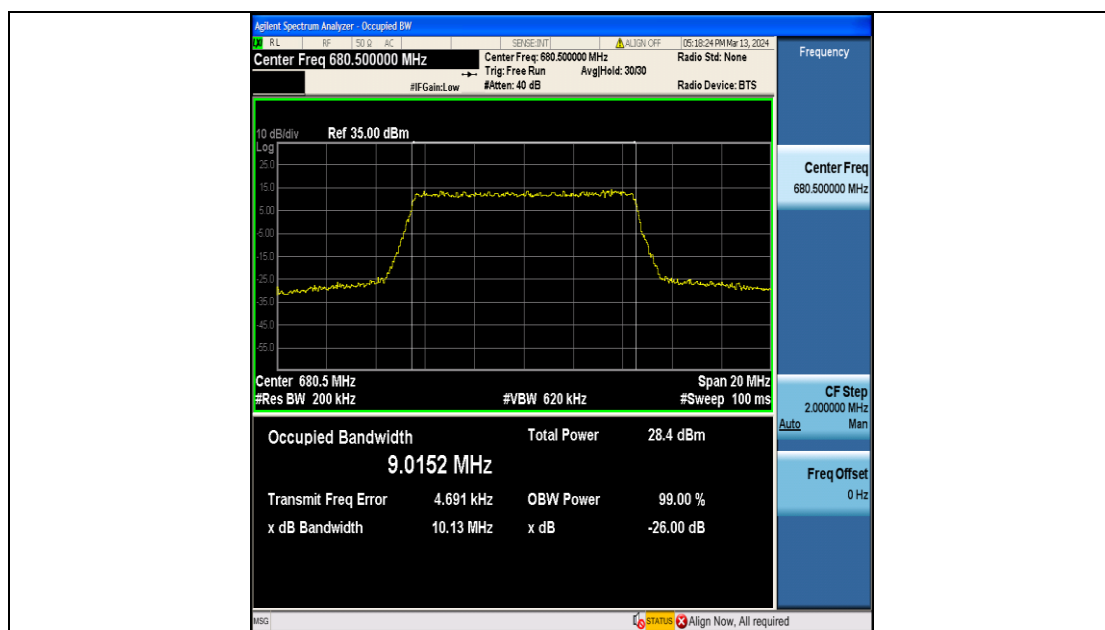


Band71-5MHz-QPSK-133447-25RB#0-PASS

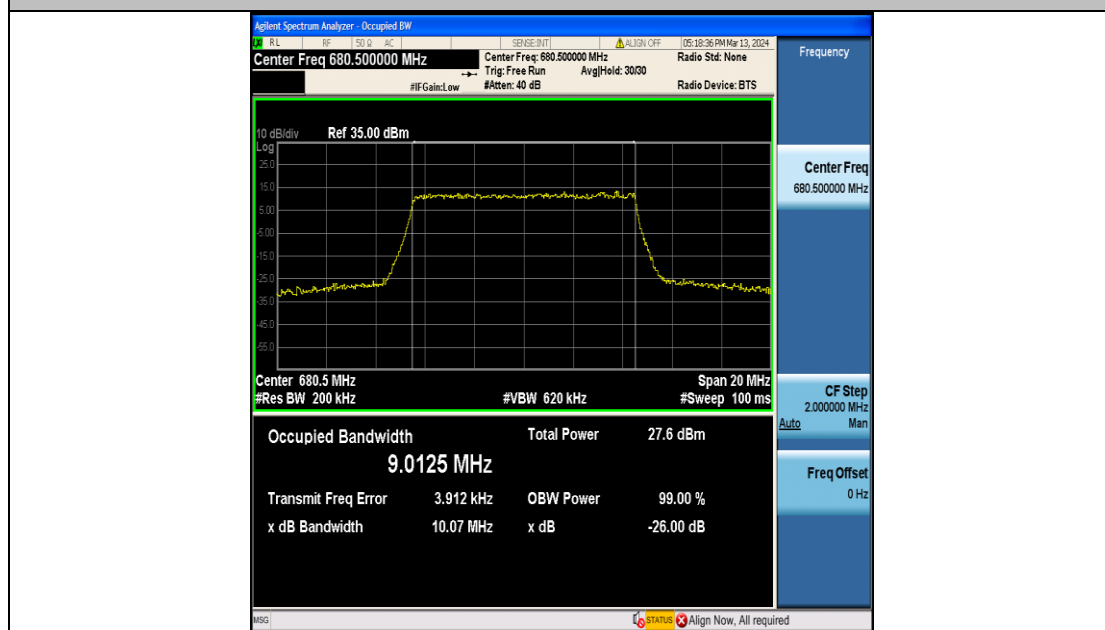


Band71-5MHz-16QAM-133447-25RB#0-PASS

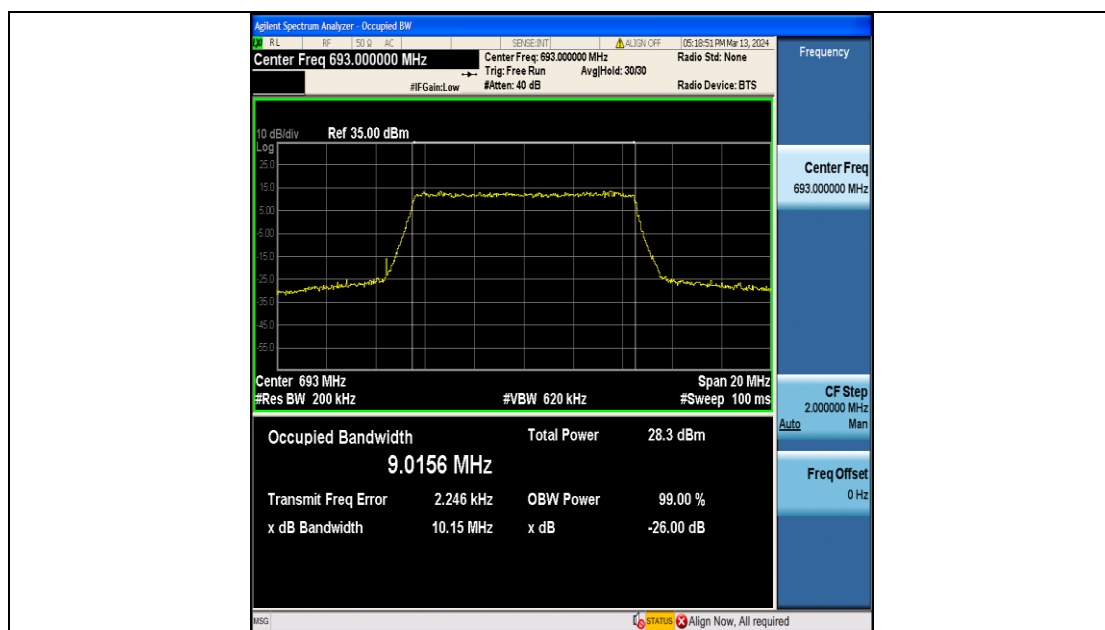




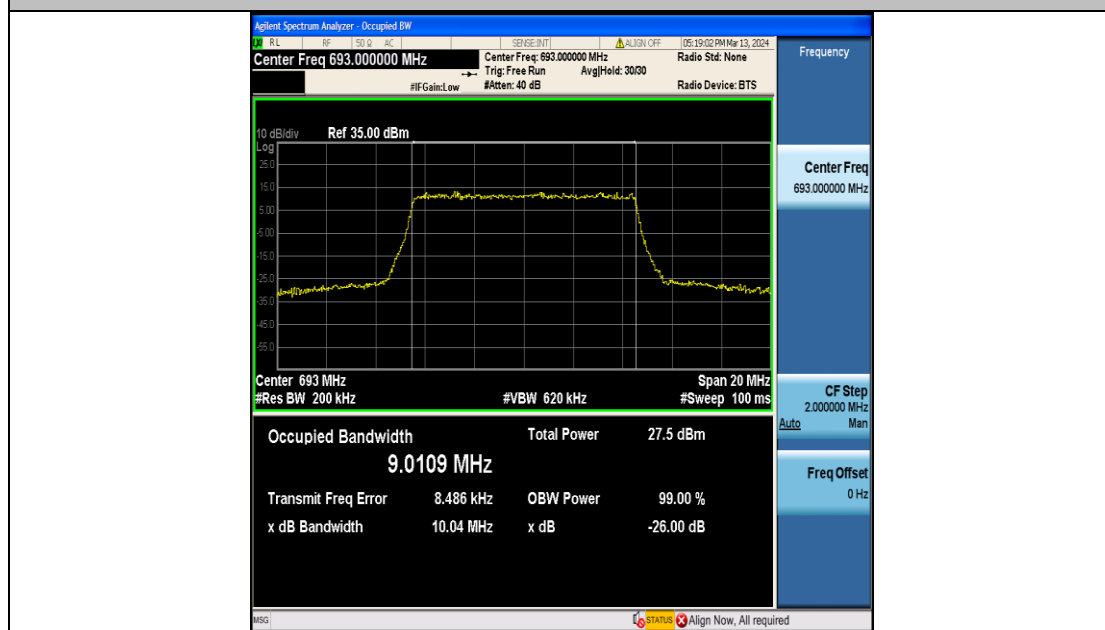
Band71-10MHz-QPSK-133297-50RB#0-PASS



Band71-10MHz-16QAM-133297-50RB#0-PASS



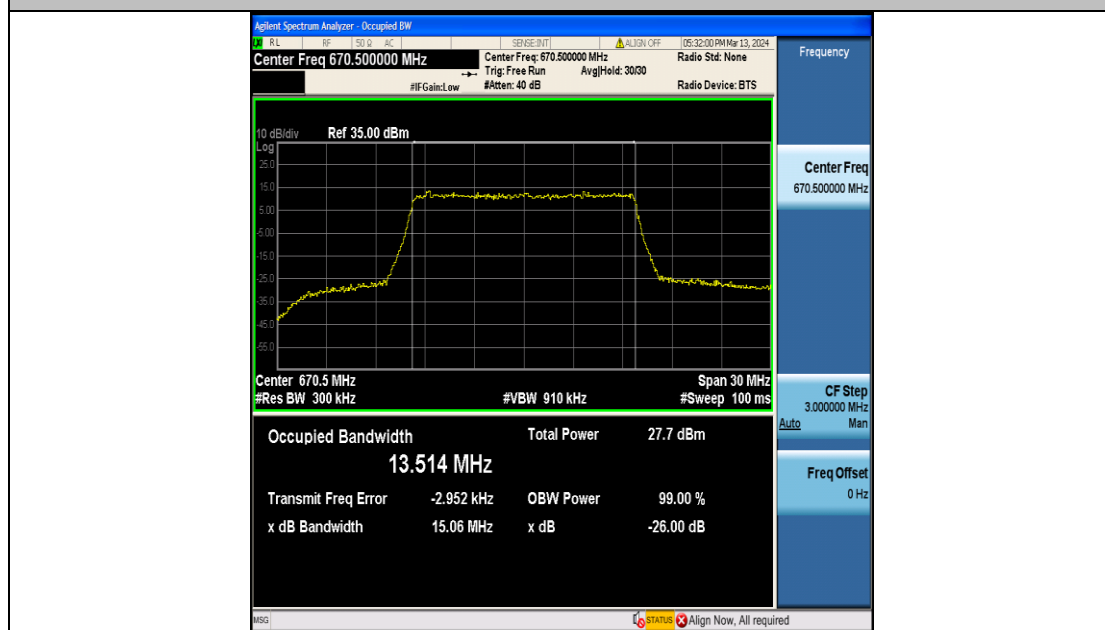
Band71-10MHz-QPSK-133422-50RB#0-PASS



Band71-10MHz-16QAM-133422-50RB#0-PASS



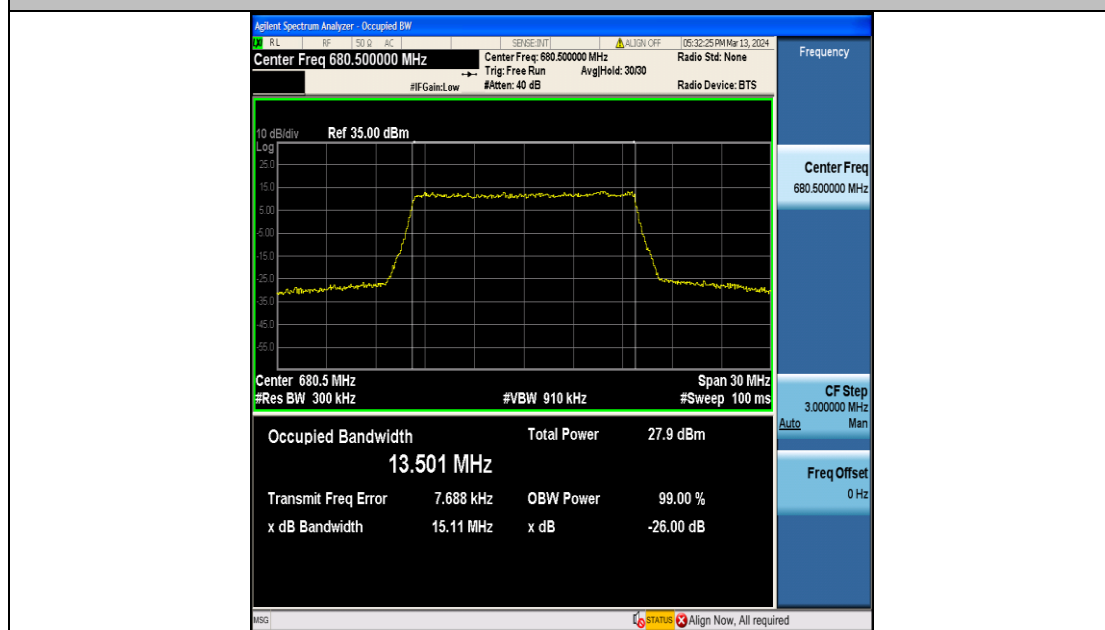
Band71-15MHz-QPSK-133197-75RB#0-PASS



Band71-15MHz-16QAM-133197-75RB#0-PASS



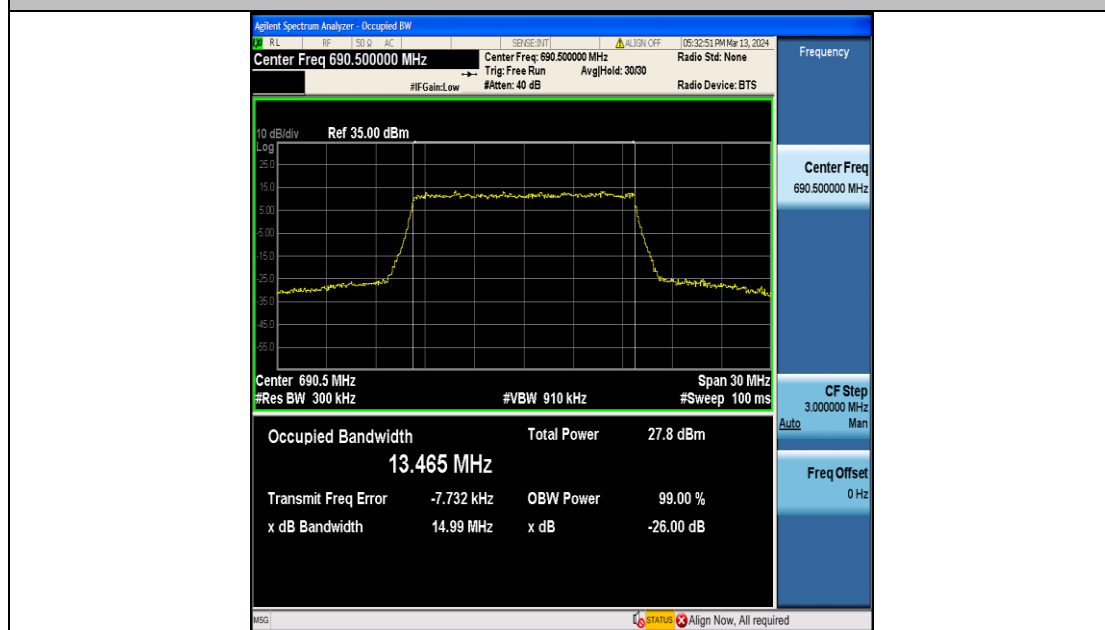
Band71-15MHz-QPSK-133297-75RB#0-PASS



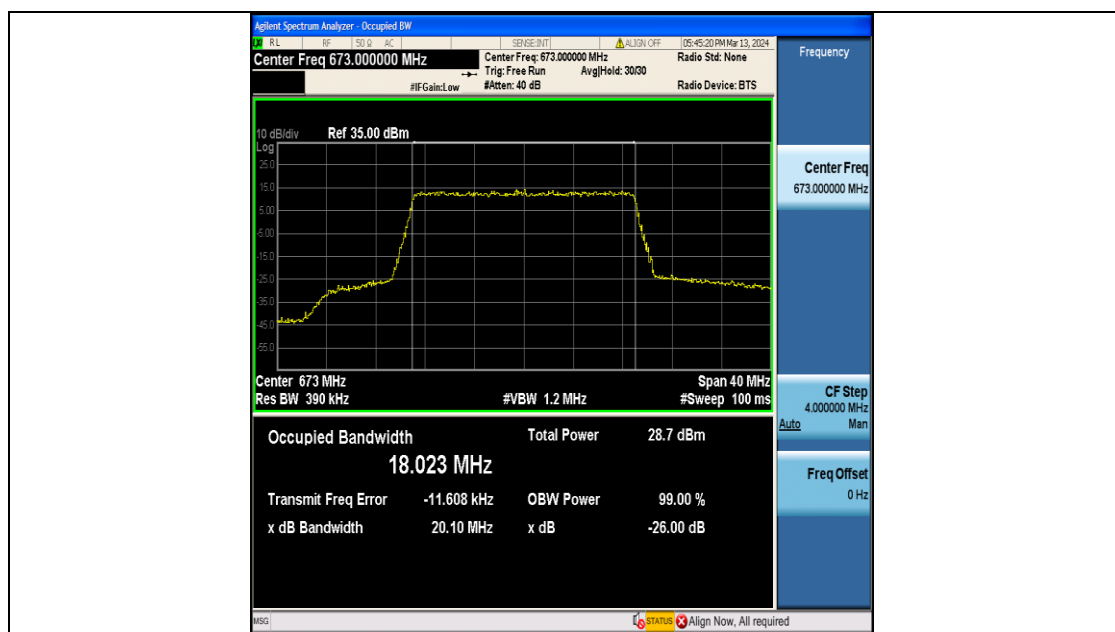
Band71-15MHz-16QAM-133297-75RB#0-PASS



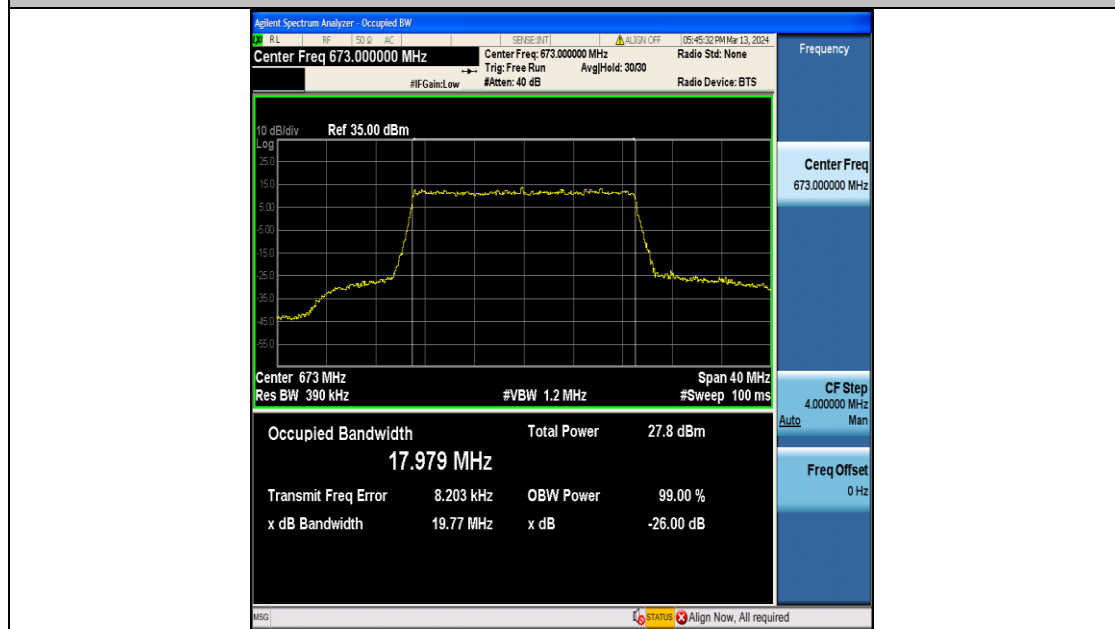
Band71-15MHz-QPSK-133397-75RB#0-PASS



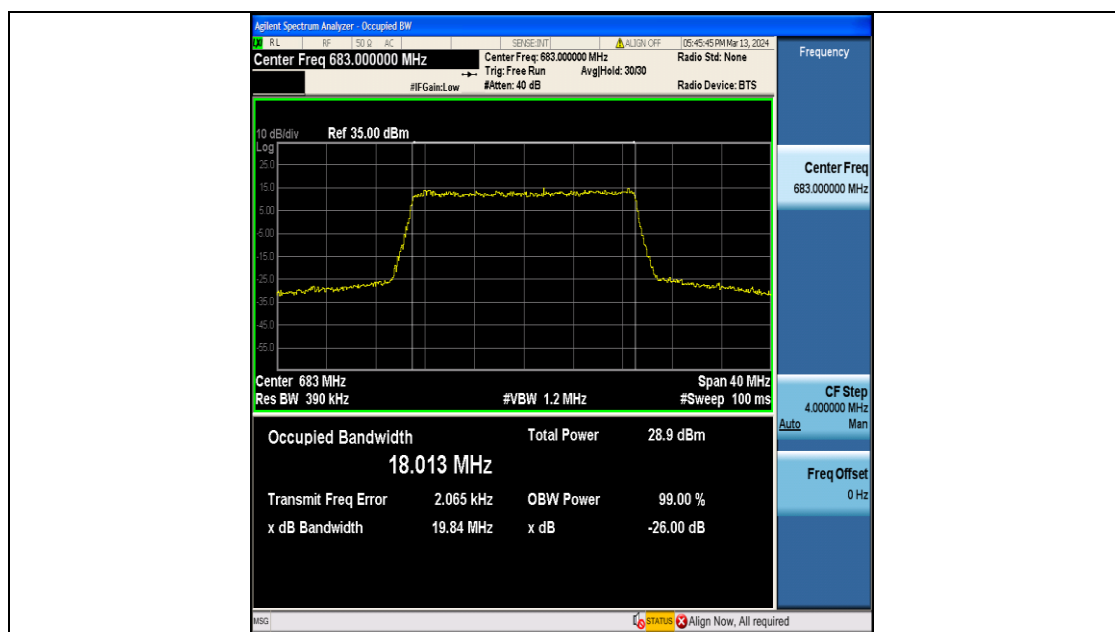
Band71-15MHz-16QAM-133397-75RB#0-PASS



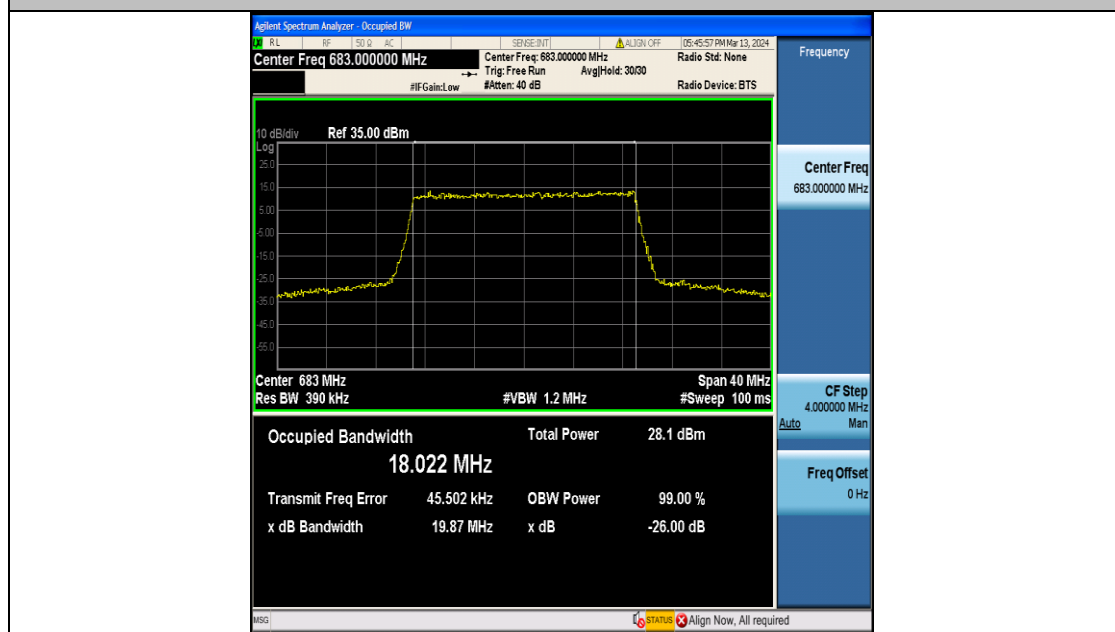
Band71-20MHz-QPSK-133222-100RB#0-PASS



Band71-20MHz-16QAM-133222-100RB#0-PASS



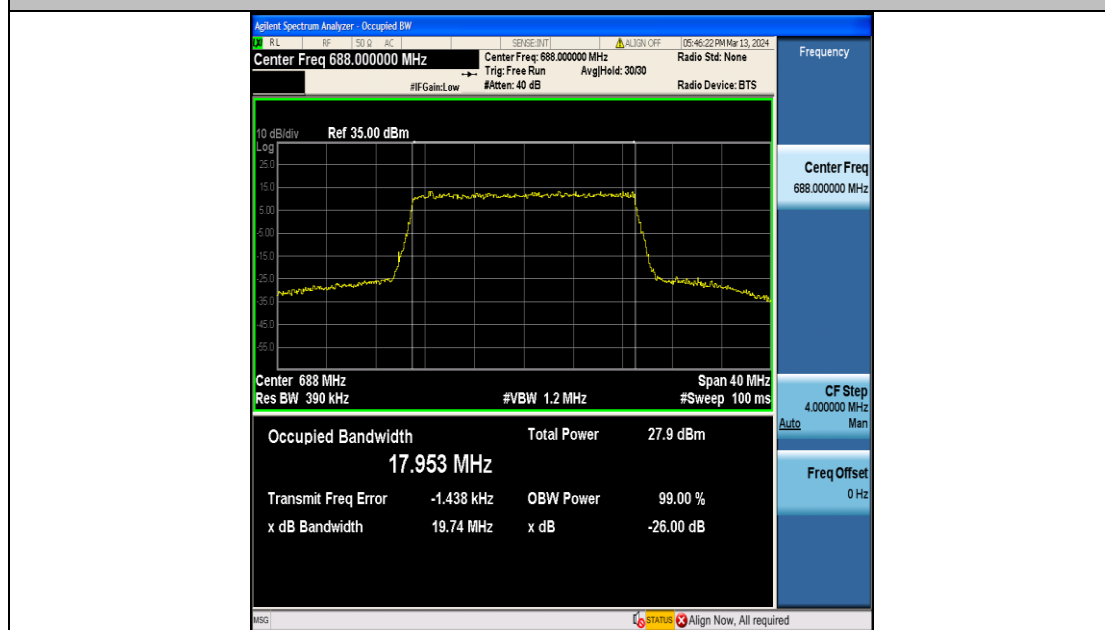
Band71-20MHz-QPSK-133322-100RB#0-PASS



Band71-20MHz-16QAM-133322-100RB#0-PASS



Band71-20MHz-QPSK-133372-100RB#0-PASS



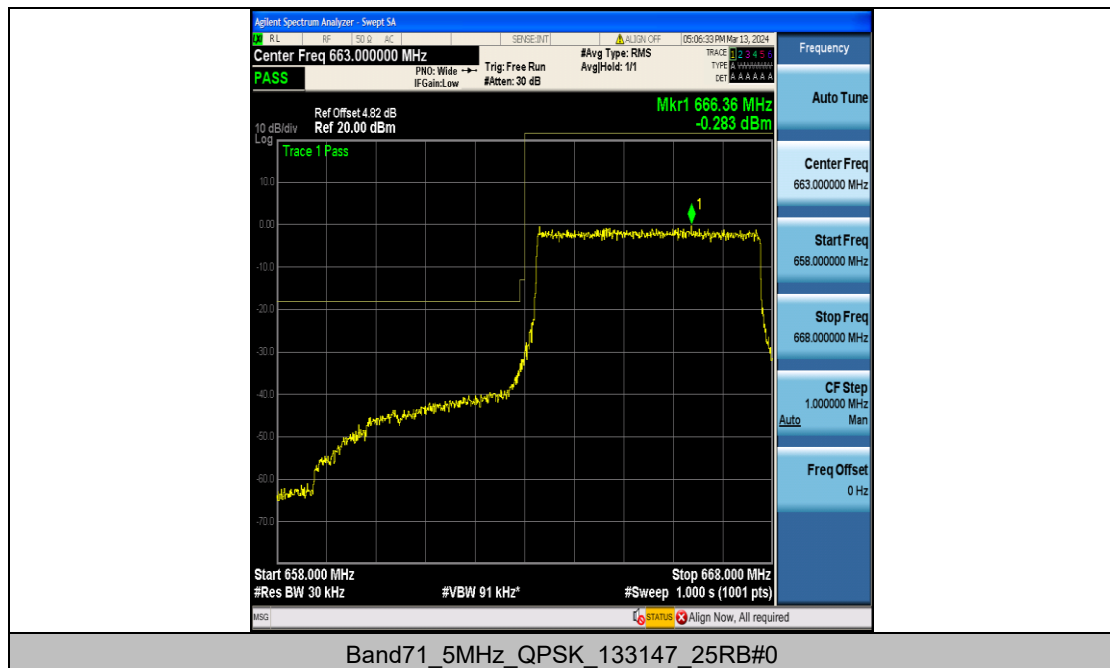
Band71-20MHz-16QAM-133372-100RB#0-PASS

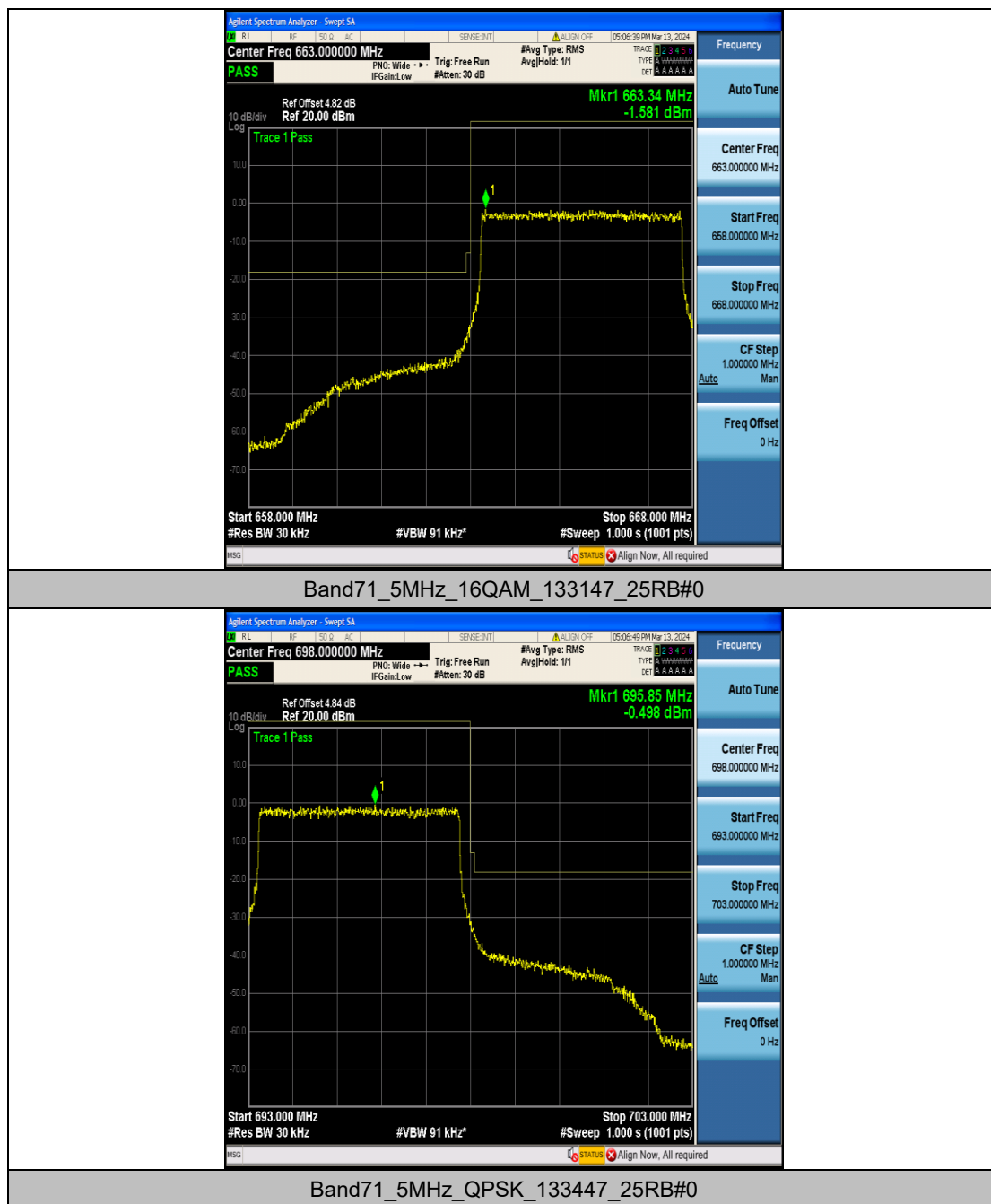
Appendix D: Band Edge

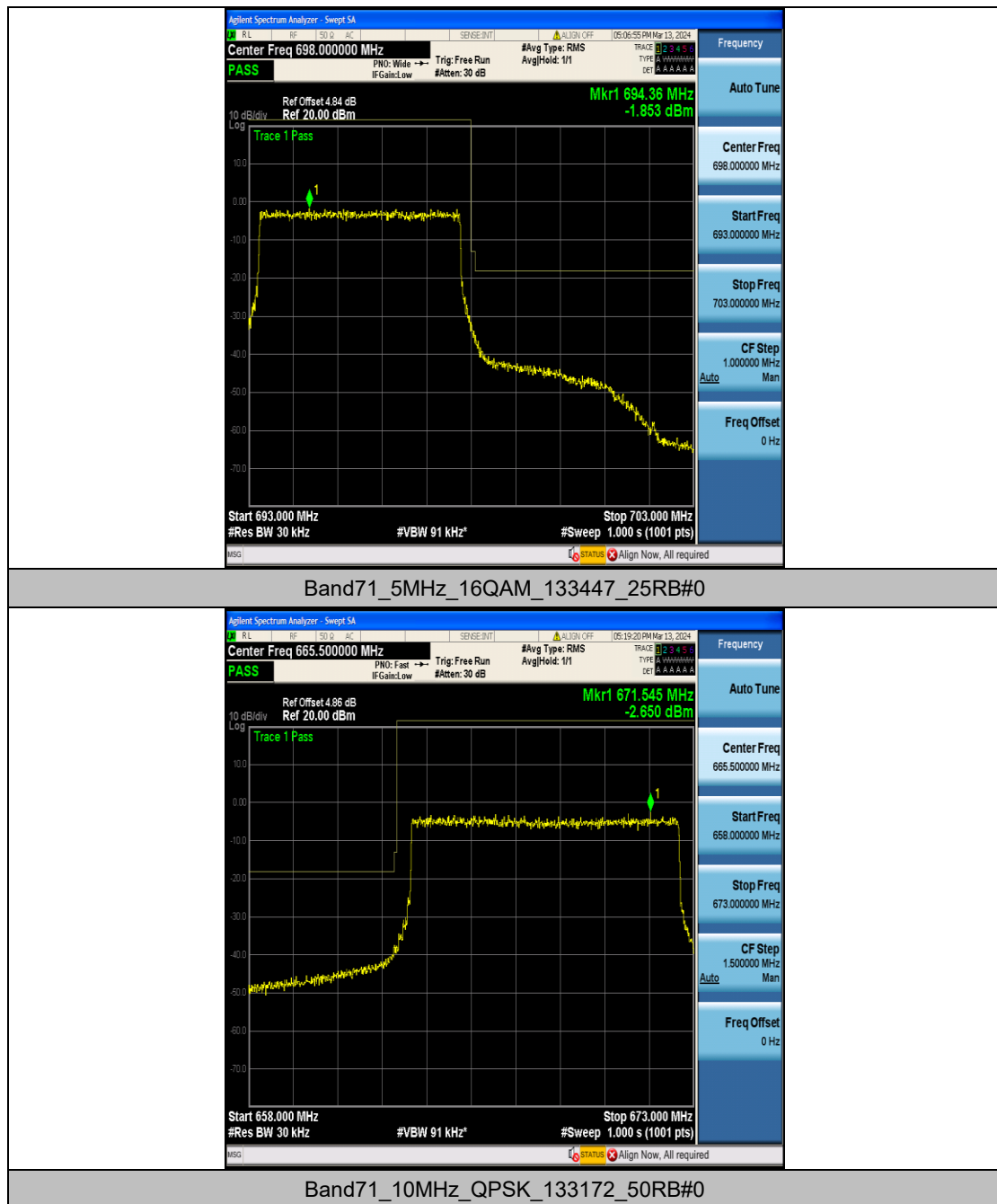
Test Result

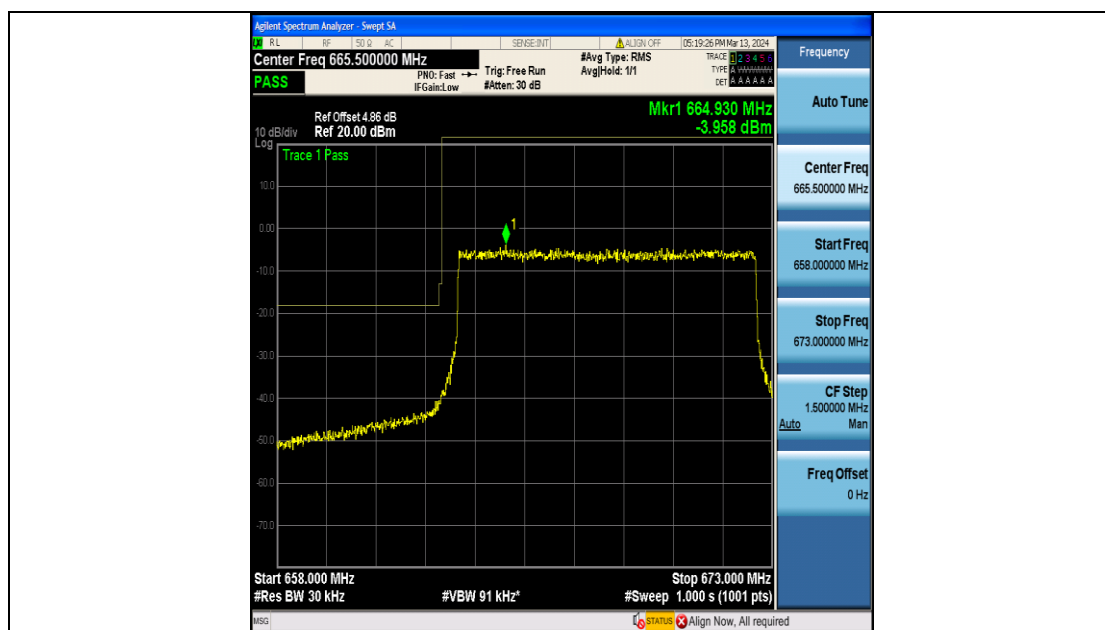
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	-34.11	PASS
Band71	5MHz	16QAM	133147	25RB#0	-35.45	PASS
Band71	5MHz	QPSK	133447	25RB#0	-34.41	PASS
Band71	5MHz	16QAM	133447	25RB#0	-34.97	PASS
Band71	10MHz	QPSK	133172	50RB#0	-39.99	PASS
Band71	10MHz	16QAM	133172	50RB#0	-40.74	PASS
Band71	10MHz	QPSK	133422	50RB#0	-39.05	PASS
Band71	10MHz	16QAM	133422	50RB#0	-40.93	PASS
Band71	15MHz	QPSK	133197	75RB#0	-41.81	PASS
Band71	15MHz	16QAM	133197	75RB#0	-42.74	PASS
Band71	15MHz	QPSK	133397	75RB#0	-41.39	PASS
Band71	15MHz	16QAM	133397	75RB#0	-41.21	PASS
Band71	20MHz	QPSK	133222	100RB#0	-42.14	PASS
Band71	20MHz	16QAM	133222	100RB#0	-44.30	PASS
Band71	20MHz	QPSK	133372	100RB#0	-43.47	PASS
Band71	20MHz	16QAM	133372	100RB#0	-44.06	PASS

Test Graphs

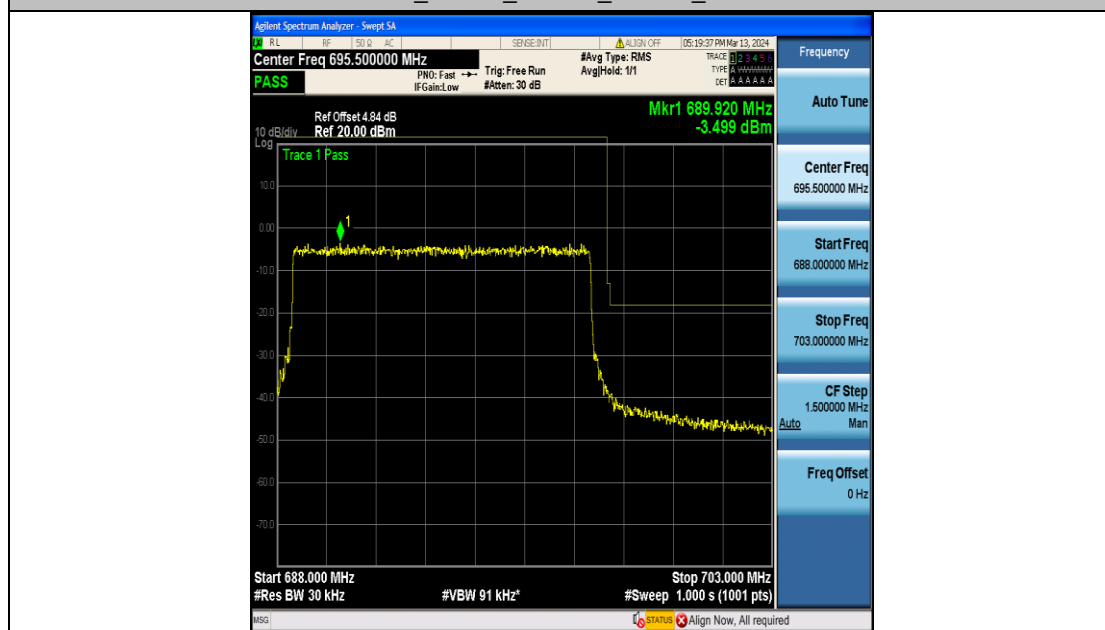




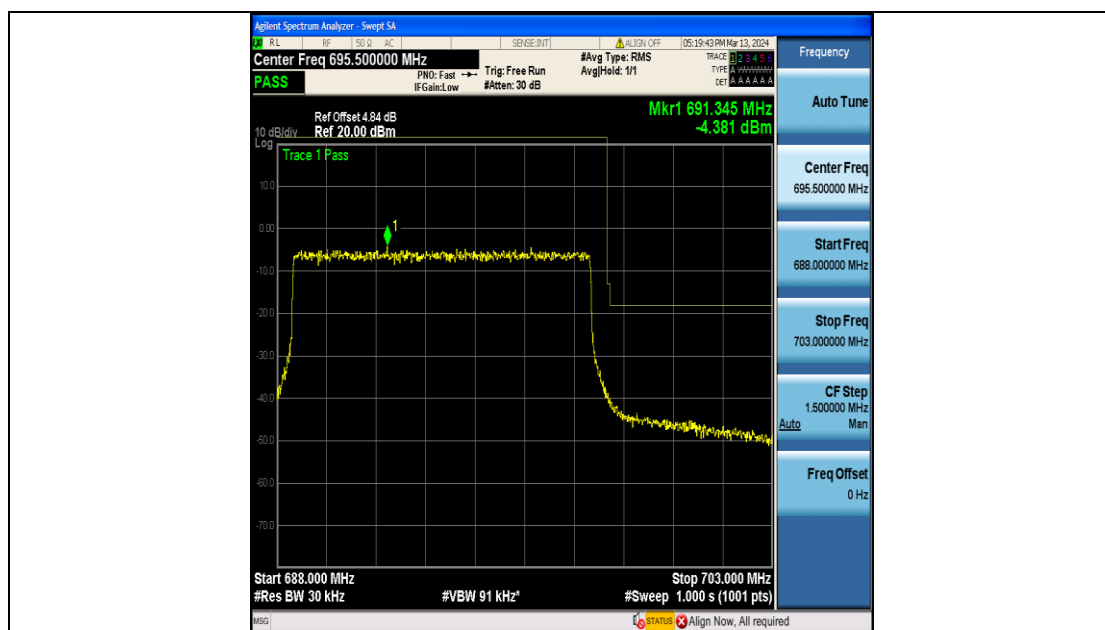




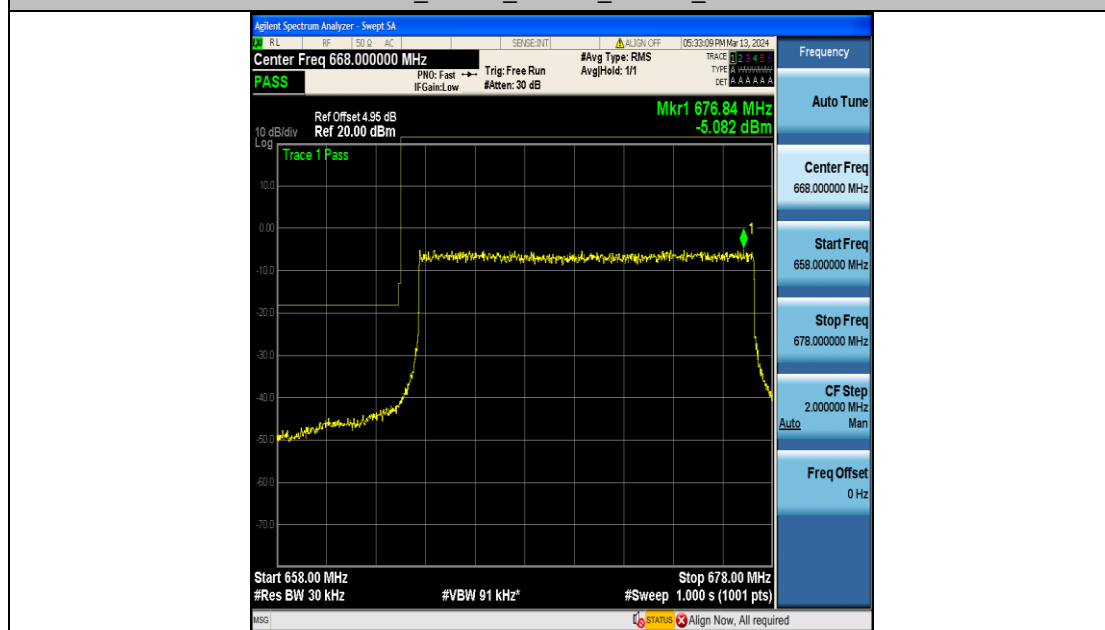
Band71_10MHz_16QAM_133172_50RB#0



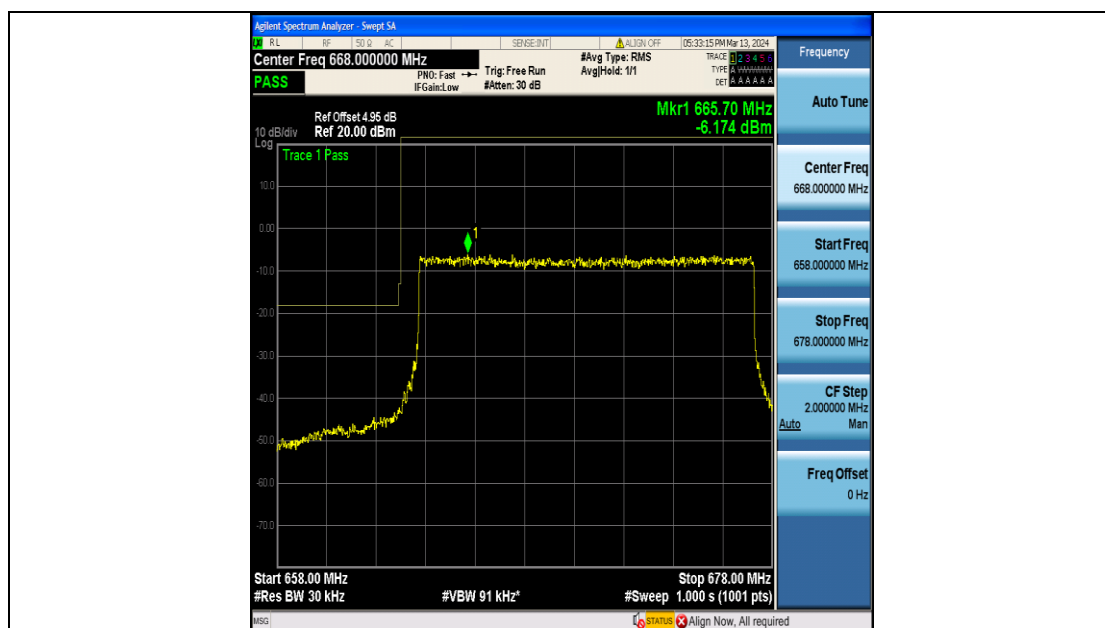
Band71_10MHz_QPSK_133422_50RB#0



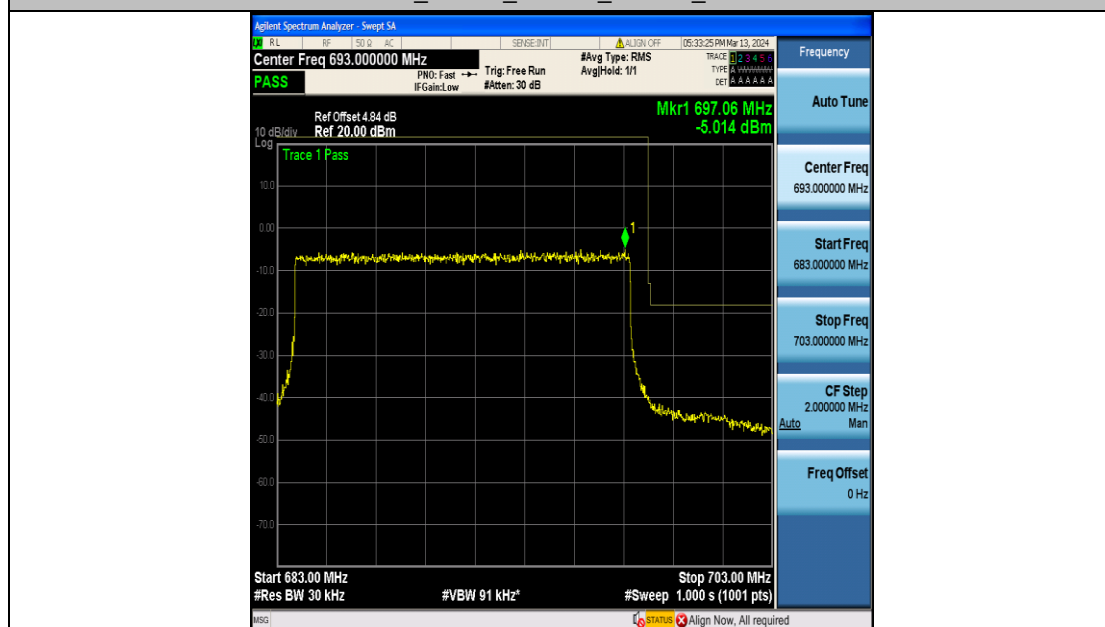
Band71_10MHz_16QAM_133422_50RB#0



Band71_15MHz_QPSK_133197_75RB#0



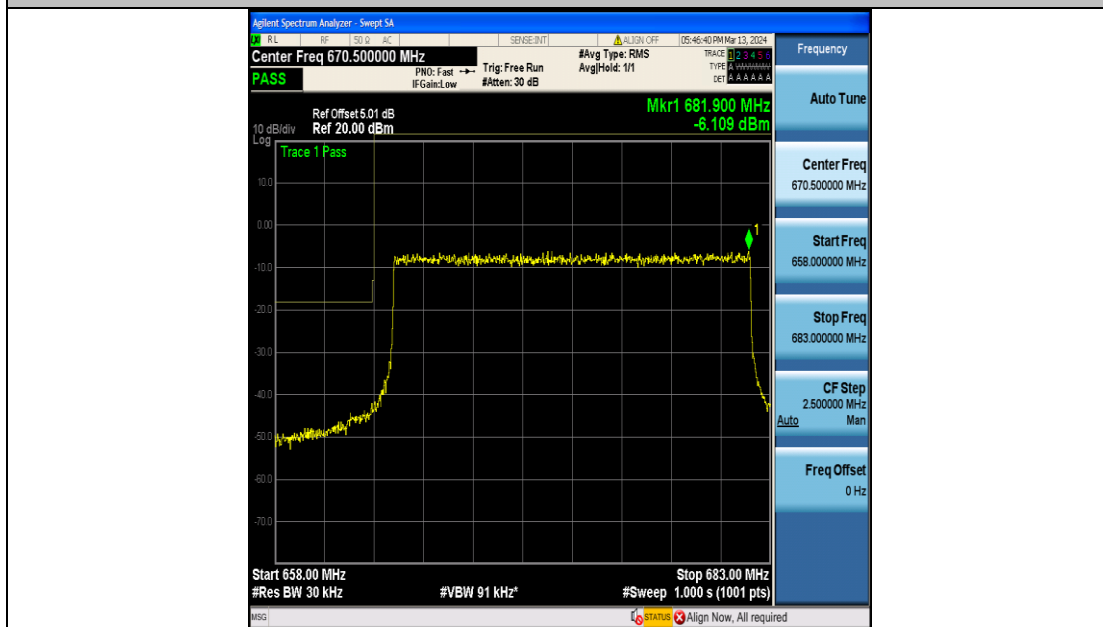
Band71_15MHz_16QAM_133197_75RB#0



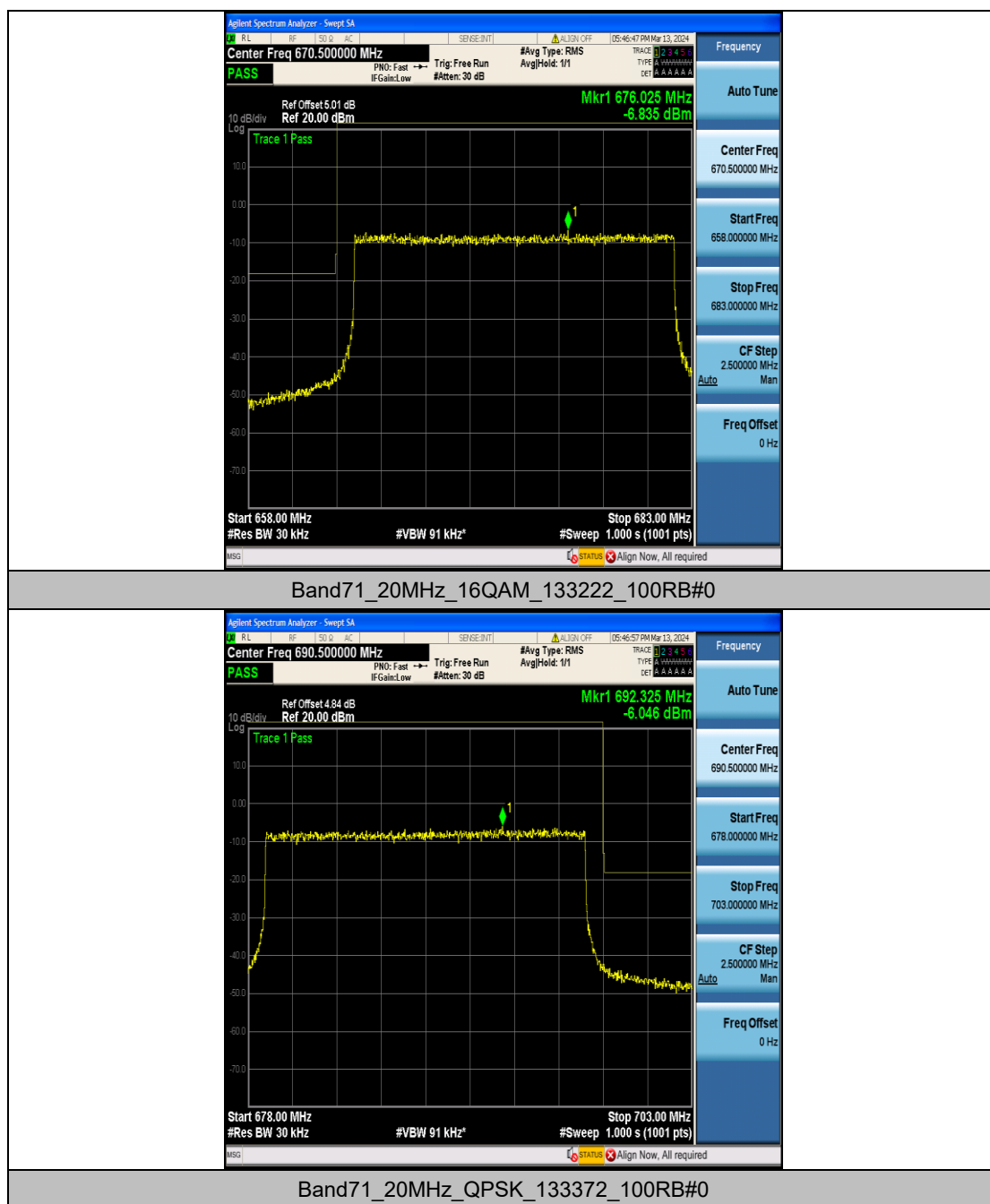
Band71_15MHz_QPSK_133397_75RB#0

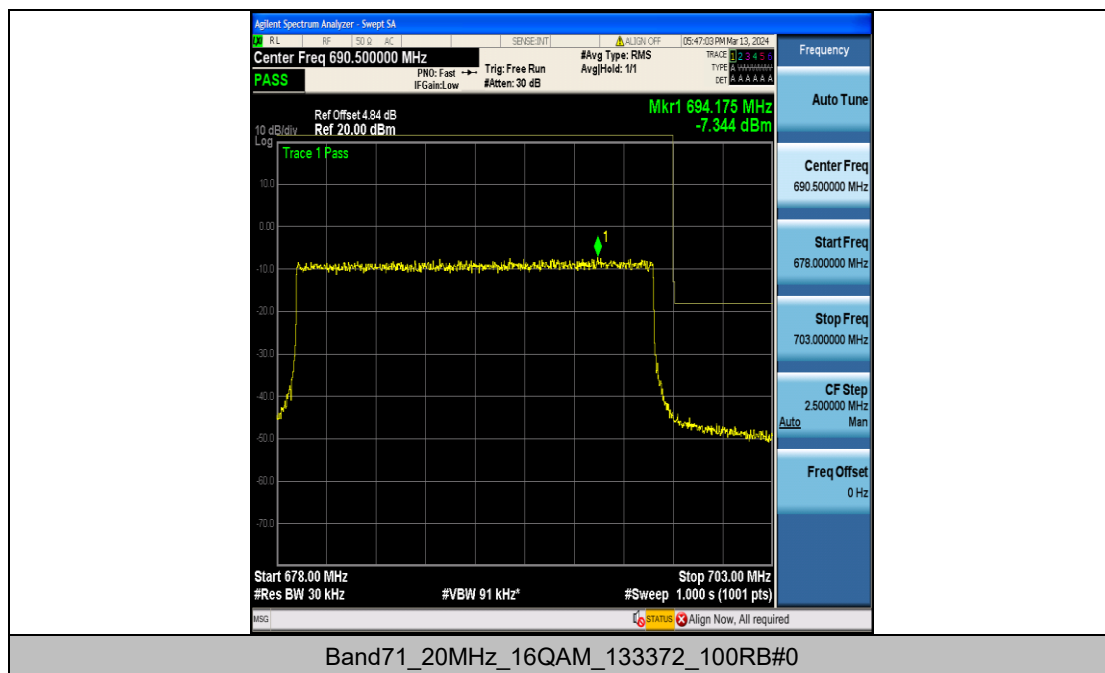


Band71_15MHz_16QAM_133397_75RB#0



Band71_20MHz_QPSK_133222_100RB#0





Appendix E: Conducted Spurious Emission

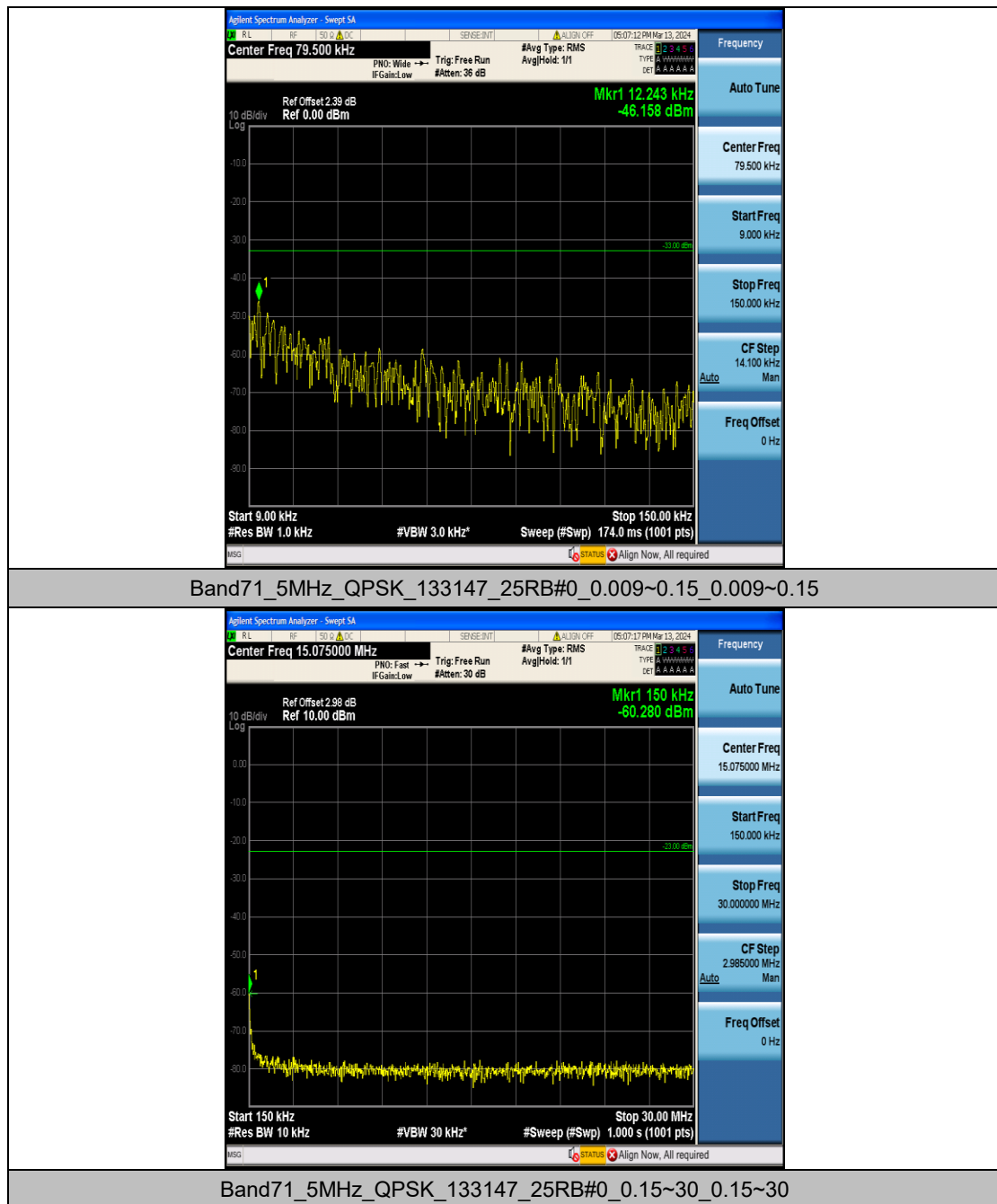
Test Result

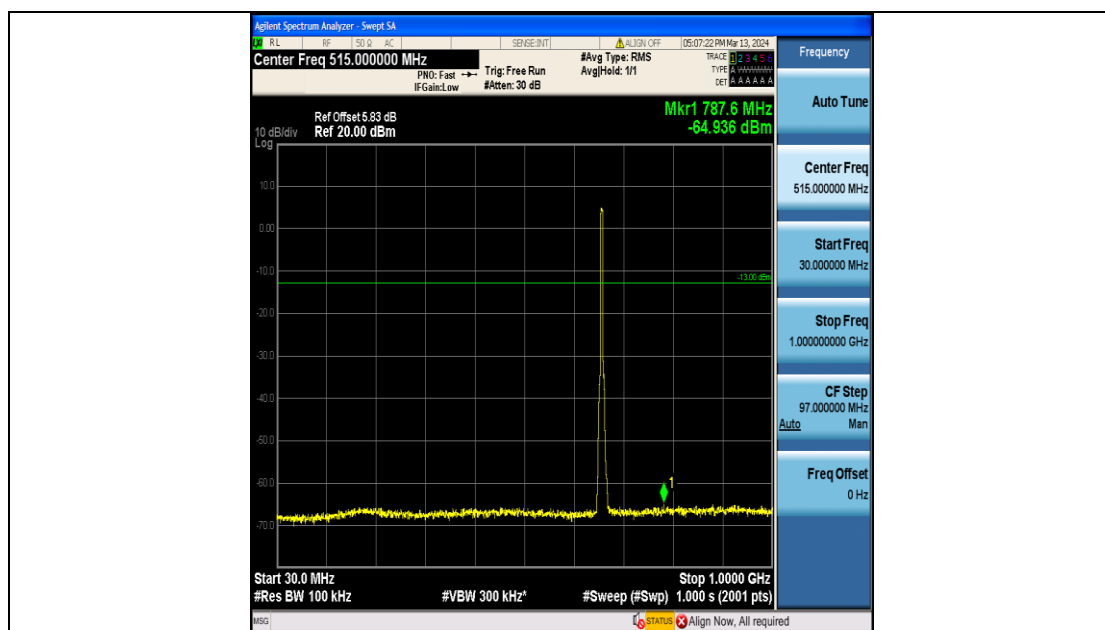
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	0.009~0.15	-46.16	PASS
Band71	5MHz	QPSK	133147	25RB#0	0.15~30	-60.28	PASS
Band71	5MHz	QPSK	133147	25RB#0	30~1000	-64.94	PASS
Band71	5MHz	QPSK	133147	25RB#0	1000~3000	-52.53	PASS
Band71	5MHz	QPSK	133147	25RB#0	3000~10000	-50.08	PASS
Band71	5MHz	16QAM	133147	25RB#0	0.009~0.15	-47.96	PASS
Band71	5MHz	16QAM	133147	25RB#0	0.15~30	-58.57	PASS
Band71	5MHz	16QAM	133147	25RB#0	30~1000	-65.22	PASS
Band71	5MHz	16QAM	133147	25RB#0	1000~3000	-52.44	PASS
Band71	5MHz	16QAM	133147	25RB#0	3000~10000	-50.23	PASS
Band71	5MHz	QPSK	133297	25RB#0	0.009~0.15	-46.25	PASS
Band71	5MHz	QPSK	133297	25RB#0	0.15~30	-58.65	PASS
Band71	5MHz	QPSK	133297	25RB#0	30~1000	-65.16	PASS
Band71	5MHz	QPSK	133297	25RB#0	1000~3000	-52.24	PASS
Band71	5MHz	QPSK	133297	25RB#0	3000~10000	-50.50	PASS
Band71	5MHz	16QAM	133297	25RB#0	0.009~0.15	-49.50	PASS
Band71	5MHz	16QAM	133297	25RB#0	0.15~30	-57.63	PASS
Band71	5MHz	16QAM	133297	25RB#0	30~1000	-65.02	PASS
Band71	5MHz	16QAM	133297	25RB#0	1000~3000	-52.43	PASS
Band71	5MHz	16QAM	133297	25RB#0	3000~10000	-50.48	PASS
Band71	5MHz	QPSK	133447	25RB#0	0.009~0.15	-45.00	PASS
Band71	5MHz	QPSK	133447	25RB#0	0.15~30	-60.27	PASS
Band71	5MHz	QPSK	133447	25RB#0	30~1000	-64.45	PASS
Band71	5MHz	QPSK	133447	25RB#0	1000~3000	-52.41	PASS
Band71	5MHz	QPSK	133447	25RB#0	3000~10000	-50.38	PASS
Band71	5MHz	16QAM	133447	25RB#0	0.009~0.15	-45.38	PASS
Band71	5MHz	16QAM	133447	25RB#0	0.15~30	-58.07	PASS
Band71	5MHz	16QAM	133447	25RB#0	30~1000	-64.87	PASS
Band71	5MHz	16QAM	133447	25RB#0	1000~3000	-52.79	PASS
Band71	5MHz	16QAM	133447	25RB#0	3000~10000	-50.39	PASS
Band71	10MHz	QPSK	133172	50RB#0	0.009~0.15	-46.78	PASS
Band71	10MHz	QPSK	133172	50RB#0	0.15~30	-59.34	PASS
Band71	10MHz	QPSK	133172	50RB#0	30~1000	-64.17	PASS
Band71	10MHz	QPSK	133172	50RB#0	1000~3000	-52.37	PASS
Band71	10MHz	QPSK	133172	50RB#0	3000~10000	-50.27	PASS
Band71	10MHz	16QAM	133172	50RB#0	0.009~0.15	-49.60	PASS

Band71	10MHz	16QAM	133172	50RB#0	0.15~30	-57.82	PASS
Band71	10MHz	16QAM	133172	50RB#0	30~1000	-63.93	PASS
Band71	10MHz	16QAM	133172	50RB#0	1000~3000	-52.41	PASS
Band71	10MHz	16QAM	133172	50RB#0	3000~10000	-50.41	PASS
Band71	10MHz	QPSK	133297	50RB#0	0.009~0.15	-46.64	PASS
Band71	10MHz	QPSK	133297	50RB#0	0.15~30	-59.02	PASS
Band71	10MHz	QPSK	133297	50RB#0	30~1000	-64.43	PASS
Band71	10MHz	QPSK	133297	50RB#0	1000~3000	-52.30	PASS
Band71	10MHz	QPSK	133297	50RB#0	3000~10000	-50.41	PASS
Band71	10MHz	16QAM	133297	50RB#0	0.009~0.15	-45.59	PASS
Band71	10MHz	16QAM	133297	50RB#0	0.15~30	-57.04	PASS
Band71	10MHz	16QAM	133297	50RB#0	30~1000	-64.22	PASS
Band71	10MHz	16QAM	133297	50RB#0	1000~3000	-52.09	PASS
Band71	10MHz	16QAM	133297	50RB#0	3000~10000	-50.32	PASS
Band71	10MHz	QPSK	133422	50RB#0	0.009~0.15	-45.46	PASS
Band71	10MHz	QPSK	133422	50RB#0	0.15~30	-57.38	PASS
Band71	10MHz	QPSK	133422	50RB#0	30~1000	-64.27	PASS
Band71	10MHz	QPSK	133422	50RB#0	1000~3000	-52.17	PASS
Band71	10MHz	QPSK	133422	50RB#0	3000~10000	-50.61	PASS
Band71	10MHz	16QAM	133422	50RB#0	0.009~0.15	-47.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	0.15~30	-58.26	PASS
Band71	10MHz	16QAM	133422	50RB#0	30~1000	-64.38	PASS
Band71	10MHz	16QAM	133422	50RB#0	1000~3000	-52.45	PASS
Band71	10MHz	16QAM	133422	50RB#0	3000~10000	-50.18	PASS
Band71	15MHz	QPSK	133197	75RB#0	0.009~0.15	-49.02	PASS
Band71	15MHz	QPSK	133197	75RB#0	0.15~30	-59.23	PASS
Band71	15MHz	QPSK	133197	75RB#0	30~1000	-64.18	PASS
Band71	15MHz	QPSK	133197	75RB#0	1000~3000	-52.35	PASS
Band71	15MHz	QPSK	133197	75RB#0	3000~10000	-50.44	PASS
Band71	15MHz	16QAM	133197	75RB#0	0.009~0.15	-48.22	PASS
Band71	15MHz	16QAM	133197	75RB#0	0.15~30	-59.92	PASS
Band71	15MHz	16QAM	133197	75RB#0	30~1000	-64.48	PASS
Band71	15MHz	16QAM	133197	75RB#0	1000~3000	-52.33	PASS
Band71	15MHz	16QAM	133197	75RB#0	3000~10000	-50.42	PASS
Band71	15MHz	QPSK	133297	75RB#0	0.009~0.15	-45.57	PASS
Band71	15MHz	QPSK	133297	75RB#0	0.15~30	-58.94	PASS
Band71	15MHz	QPSK	133297	75RB#0	30~1000	-64.47	PASS
Band71	15MHz	QPSK	133297	75RB#0	1000~3000	-52.45	PASS
Band71	15MHz	QPSK	133297	75RB#0	3000~10000	-49.90	PASS
Band71	15MHz	16QAM	133297	75RB#0	0.009~0.15	-47.58	PASS
Band71	15MHz	16QAM	133297	75RB#0	0.15~30	-60.06	PASS
Band71	15MHz	16QAM	133297	75RB#0	30~1000	-64.44	PASS
Band71	15MHz	16QAM	133297	75RB#0	1000~3000	-51.81	PASS

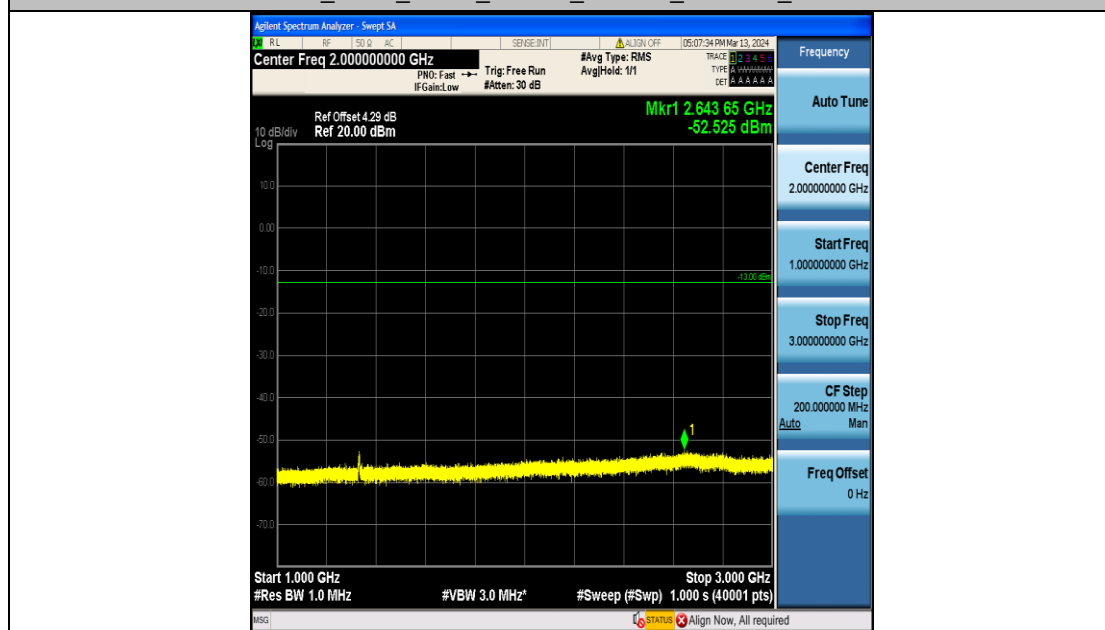
Band71	15MHz	16QAM	133297	75RB#0	3000~10000	-50.53	PASS
Band71	15MHz	QPSK	133397	75RB#0	0.009~0.15	-46.94	PASS
Band71	15MHz	QPSK	133397	75RB#0	0.15~30	-58.58	PASS
Band71	15MHz	QPSK	133397	75RB#0	30~1000	-64.34	PASS
Band71	15MHz	QPSK	133397	75RB#0	1000~3000	-52.55	PASS
Band71	15MHz	QPSK	133397	75RB#0	3000~10000	-49.90	PASS
Band71	15MHz	16QAM	133397	75RB#0	0.009~0.15	-46.08	PASS
Band71	15MHz	16QAM	133397	75RB#0	0.15~30	-59.94	PASS
Band71	15MHz	16QAM	133397	75RB#0	30~1000	-64.11	PASS
Band71	15MHz	16QAM	133397	75RB#0	1000~3000	-52.44	PASS
Band71	15MHz	16QAM	133397	75RB#0	3000~10000	-49.90	PASS
Band71	20MHz	QPSK	133222	100RB#0	0.009~0.15	-45.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	0.15~30	-58.85	PASS
Band71	20MHz	QPSK	133222	100RB#0	30~1000	-64.08	PASS
Band71	20MHz	QPSK	133222	100RB#0	1000~3000	-52.33	PASS
Band71	20MHz	QPSK	133222	100RB#0	3000~10000	-50.52	PASS
Band71	20MHz	16QAM	133222	100RB#0	0.009~0.15	-45.16	PASS
Band71	20MHz	16QAM	133222	100RB#0	0.15~30	-60.05	PASS
Band71	20MHz	16QAM	133222	100RB#0	30~1000	-64.27	PASS
Band71	20MHz	16QAM	133222	100RB#0	1000~3000	-52.33	PASS
Band71	20MHz	16QAM	133222	100RB#0	3000~10000	-50.49	PASS
Band71	20MHz	QPSK	133322	100RB#0	0.009~0.15	-47.14	PASS
Band71	20MHz	QPSK	133322	100RB#0	0.15~30	-57.92	PASS
Band71	20MHz	QPSK	133322	100RB#0	30~1000	-64.39	PASS
Band71	20MHz	QPSK	133322	100RB#0	1000~3000	-51.90	PASS
Band71	20MHz	QPSK	133322	100RB#0	3000~10000	-50.52	PASS
Band71	20MHz	16QAM	133322	100RB#0	0.009~0.15	-49.73	PASS
Band71	20MHz	16QAM	133322	100RB#0	0.15~30	-58.40	PASS
Band71	20MHz	16QAM	133322	100RB#0	30~1000	-64.41	PASS
Band71	20MHz	16QAM	133322	100RB#0	1000~3000	-52.35	PASS
Band71	20MHz	16QAM	133322	100RB#0	3000~10000	-50.57	PASS
Band71	20MHz	QPSK	133372	100RB#0	0.009~0.15	-45.42	PASS
Band71	20MHz	QPSK	133372	100RB#0	0.15~30	-59.00	PASS
Band71	20MHz	QPSK	133372	100RB#0	30~1000	-64.32	PASS
Band71	20MHz	QPSK	133372	100RB#0	1000~3000	-52.44	PASS
Band71	20MHz	QPSK	133372	100RB#0	3000~10000	-50.43	PASS
Band71	20MHz	16QAM	133372	100RB#0	0.009~0.15	-44.79	PASS
Band71	20MHz	16QAM	133372	100RB#0	0.15~30	-57.04	PASS
Band71	20MHz	16QAM	133372	100RB#0	30~1000	-64.22	PASS
Band71	20MHz	16QAM	133372	100RB#0	1000~3000	-52.12	PASS
Band71	20MHz	16QAM	133372	100RB#0	3000~10000	-50.38	PASS

Test Graphs

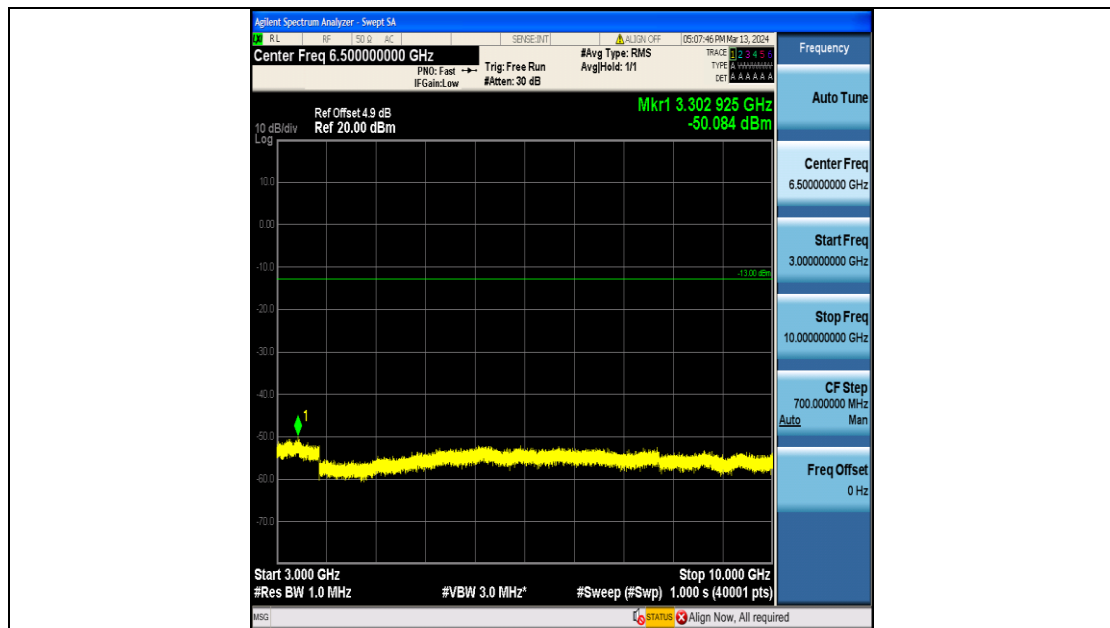




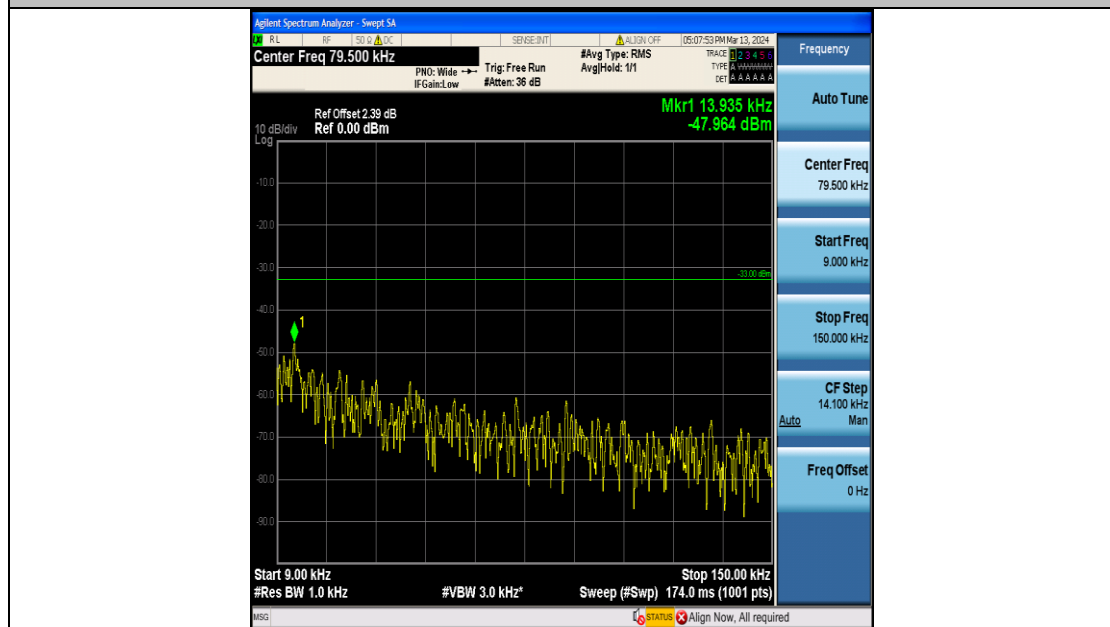
Band71_5MHz_QPSK_133147_25RB#0_30~1000_30~1000



Band71_5MHz_QPSK_133147_25RB#0_1000~3000_1000~3000



Band71_5MHz_QPSK_133147_25RB#0_3000~10000_3000~10000



Band71_5MHz_16QAM_133147_25RB#0_0.009~0.15_0.009~0.15

