

FCC LTE Band Test Data

FCC ID : 2BF18-TIQMINIM5

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

EUT : TIQ mini M5

Model Number : TIQ mini M5

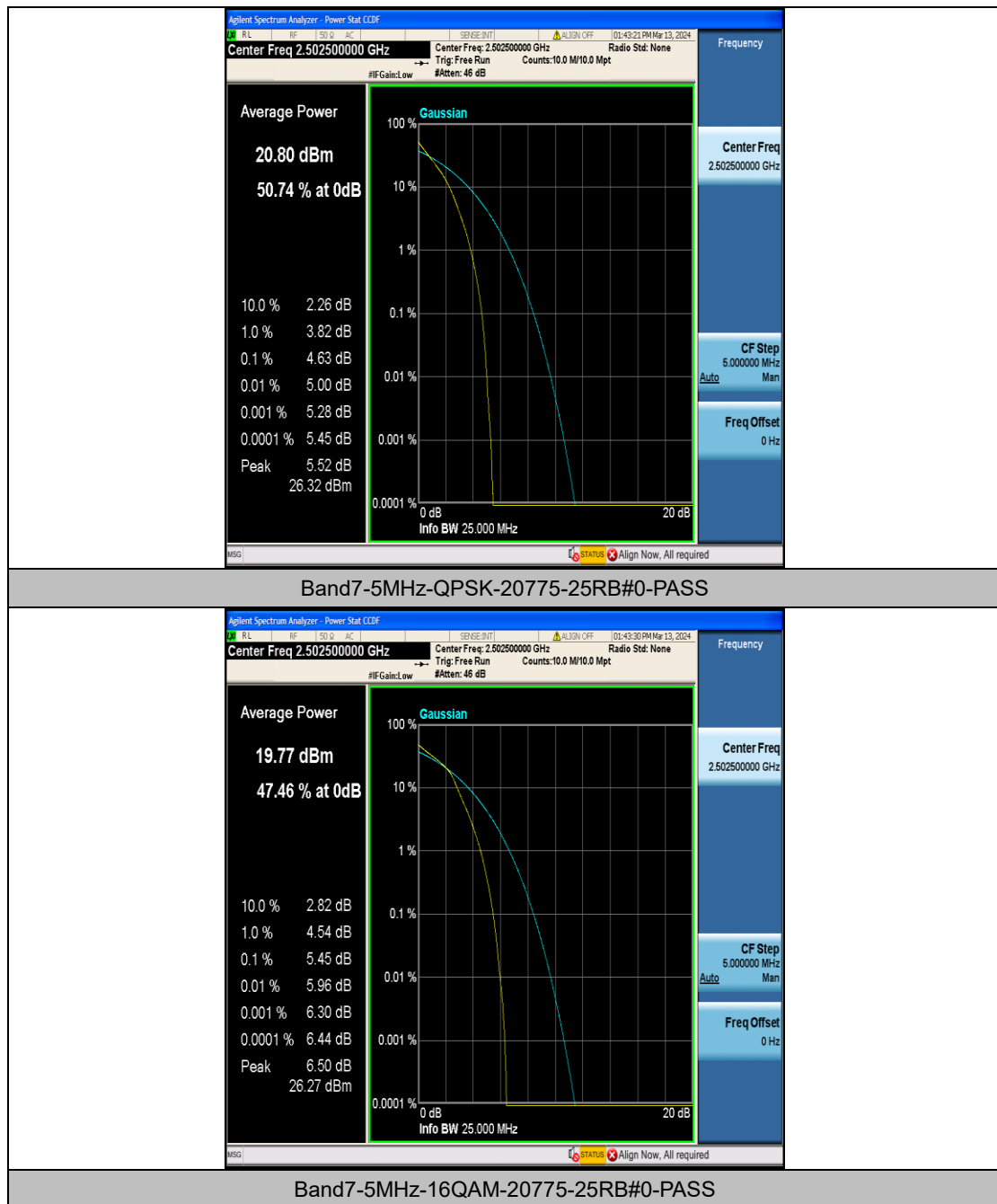
Reviewed By : Eric Wang

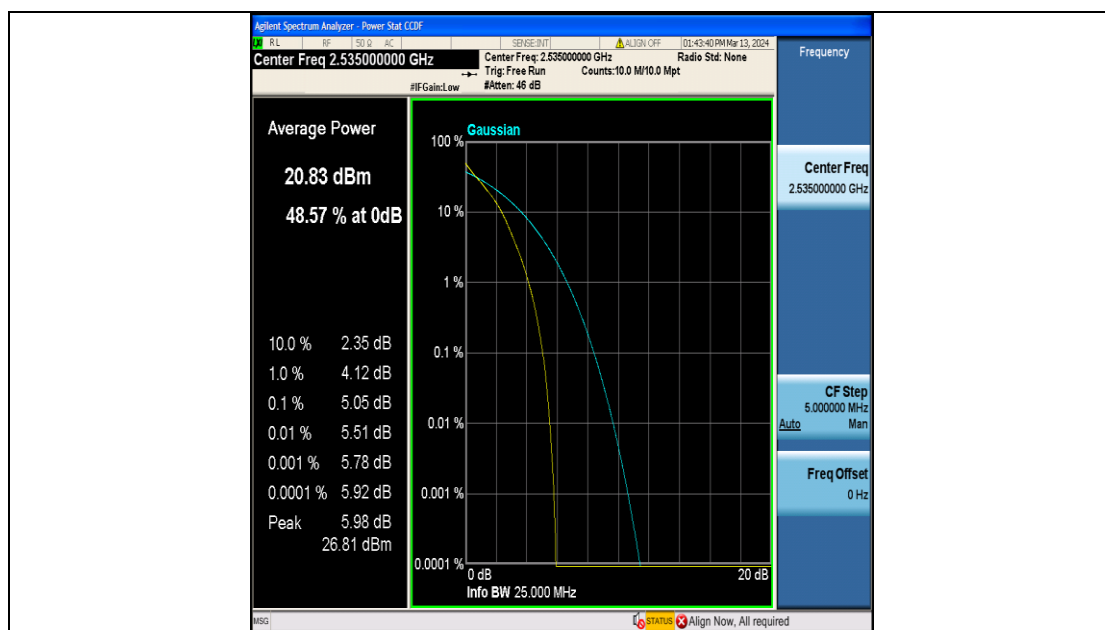
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

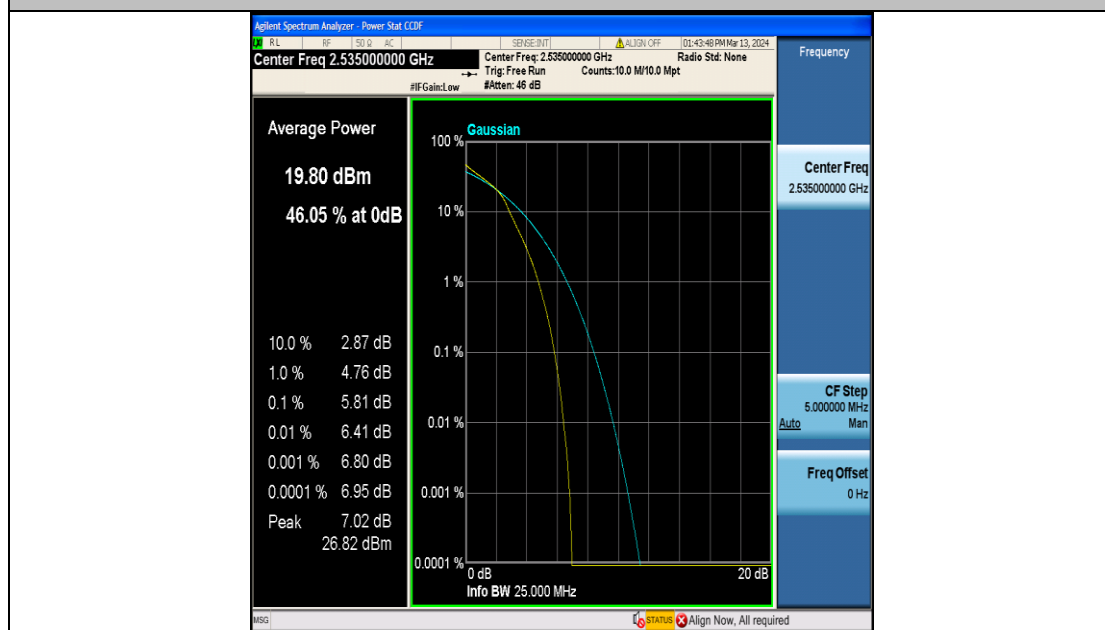
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.63	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.45	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.05	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.81	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.91	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.71	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.78	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.60	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.16	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.93	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.15	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.98	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.20	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.82	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.45	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.06	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.50	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.11	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.16	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.92	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.27	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.06	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.34	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.09	13	PASS

Test Graphs

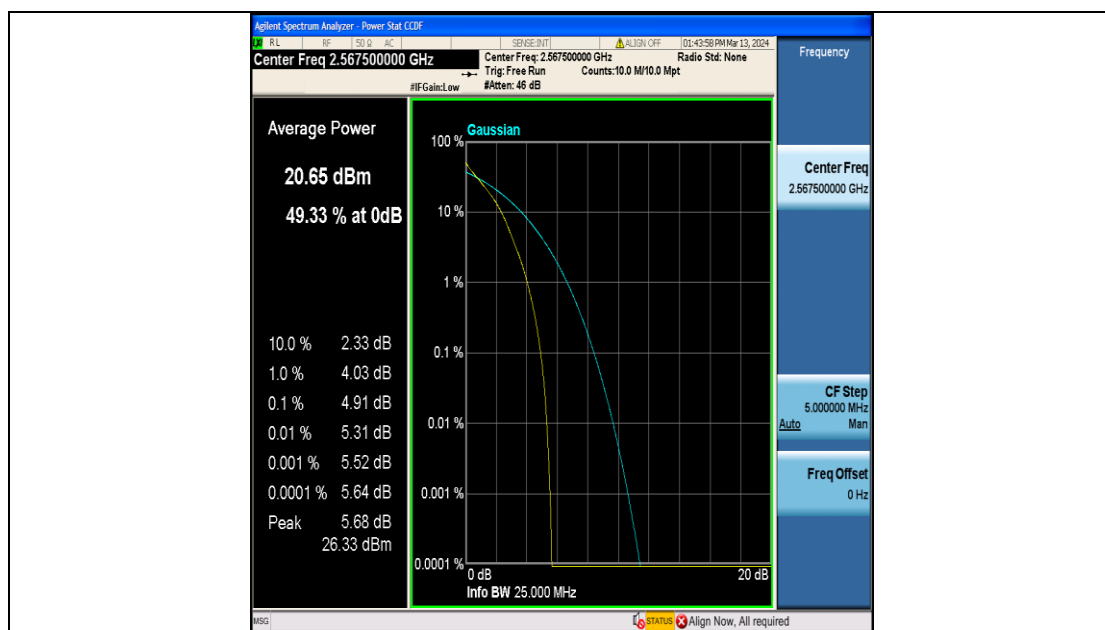




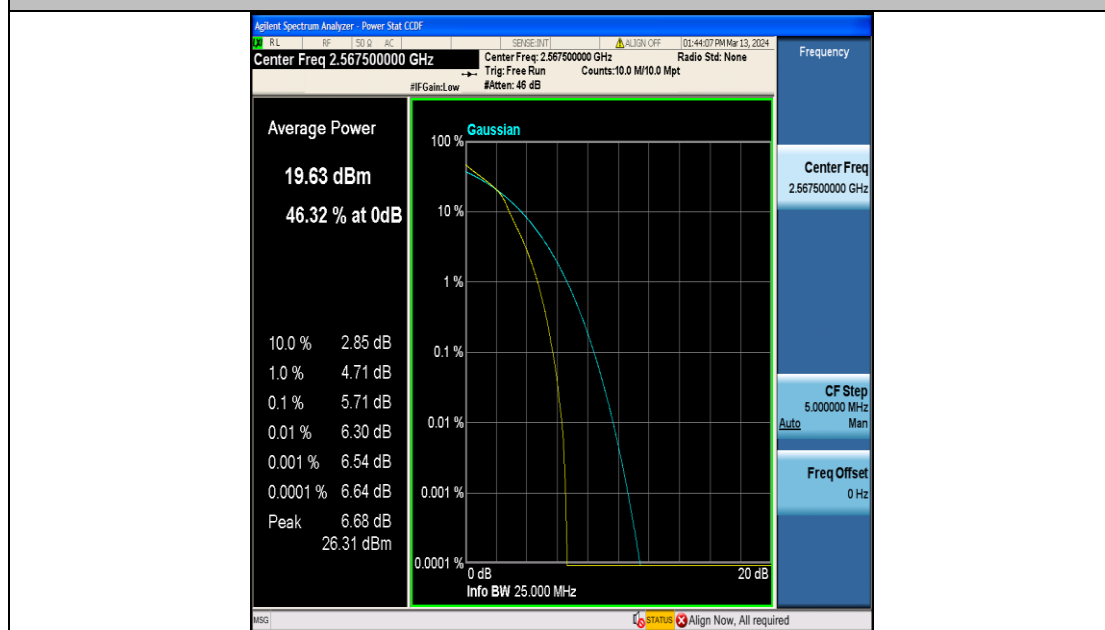
Band7-5MHz-QPSK-21100-25RB#0-PASS



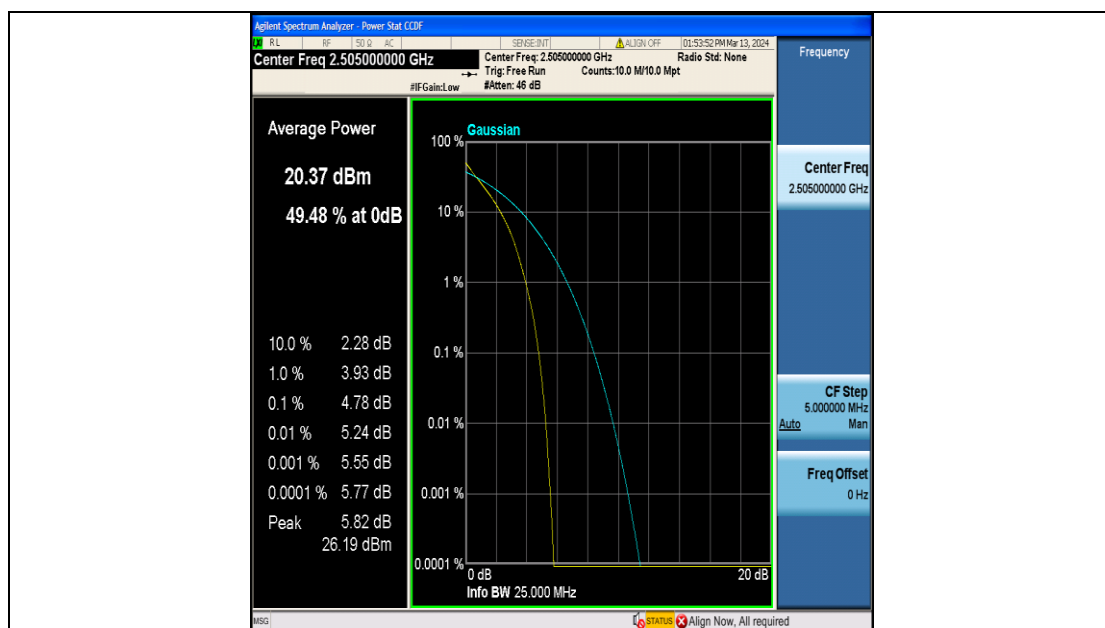
Band7-5MHz-16QAM-21100-25RB#0-PASS



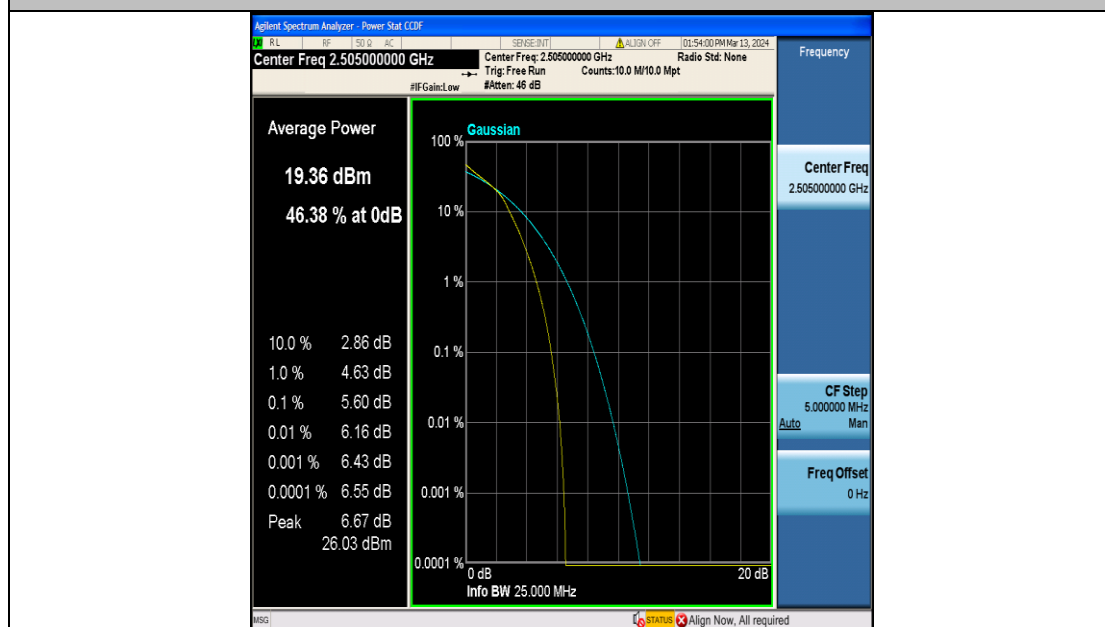
Band7-5MHz-QPSK-21425-25RB#0-PASS



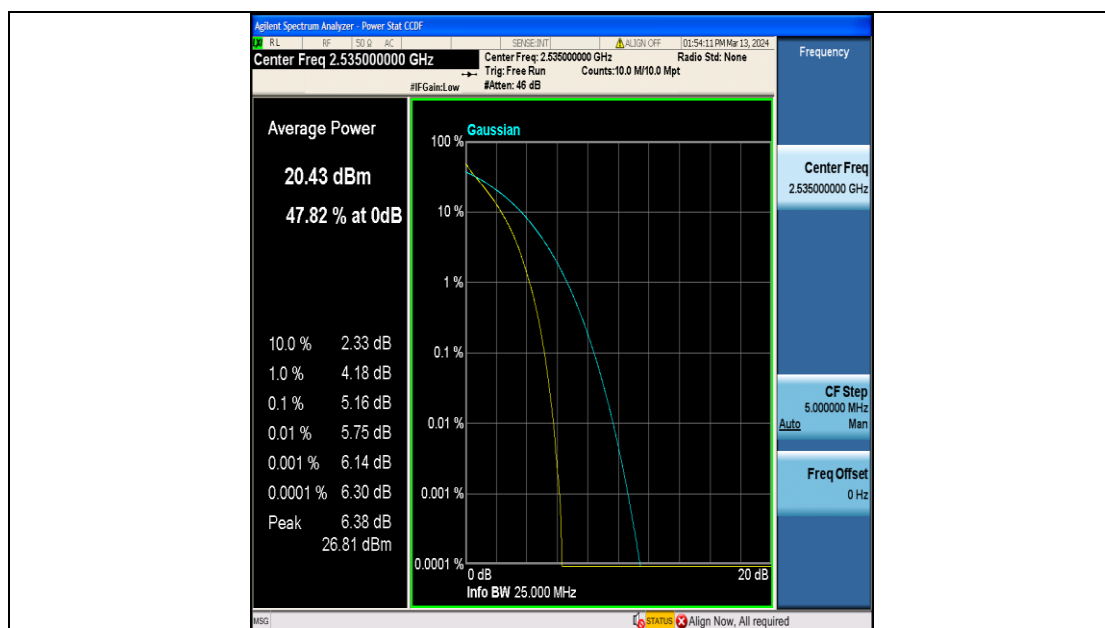
Band7-5MHz-16QAM-21425-25RB#0-PASS



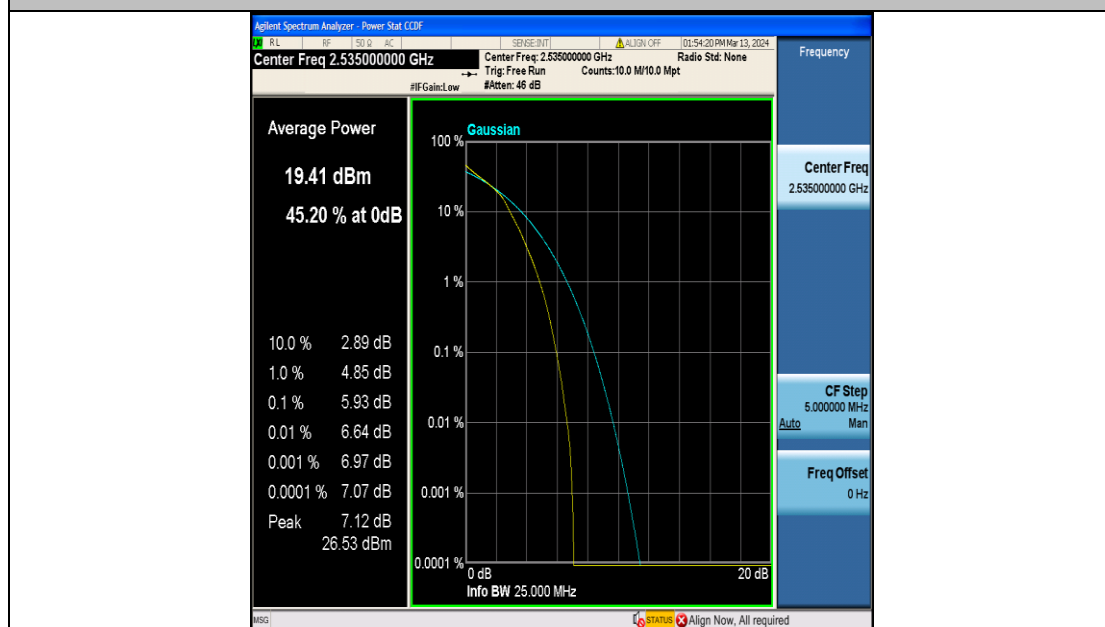
Band7-10MHz-QPSK-20800-50RB#0-PASS



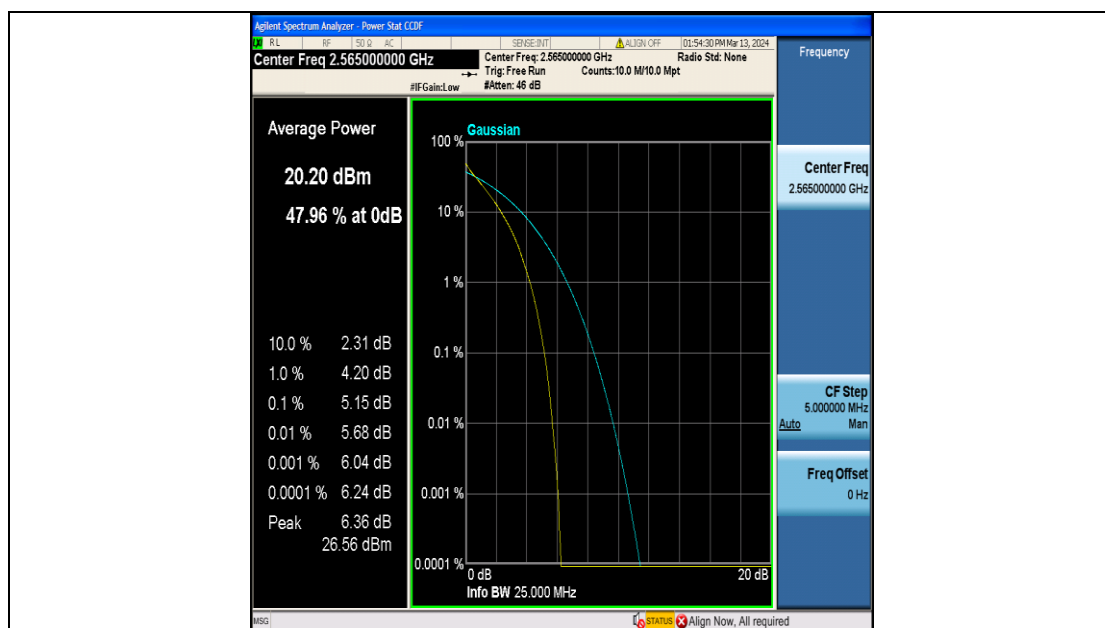
Band7-10MHz-16QAM-20800-50RB#0-PASS



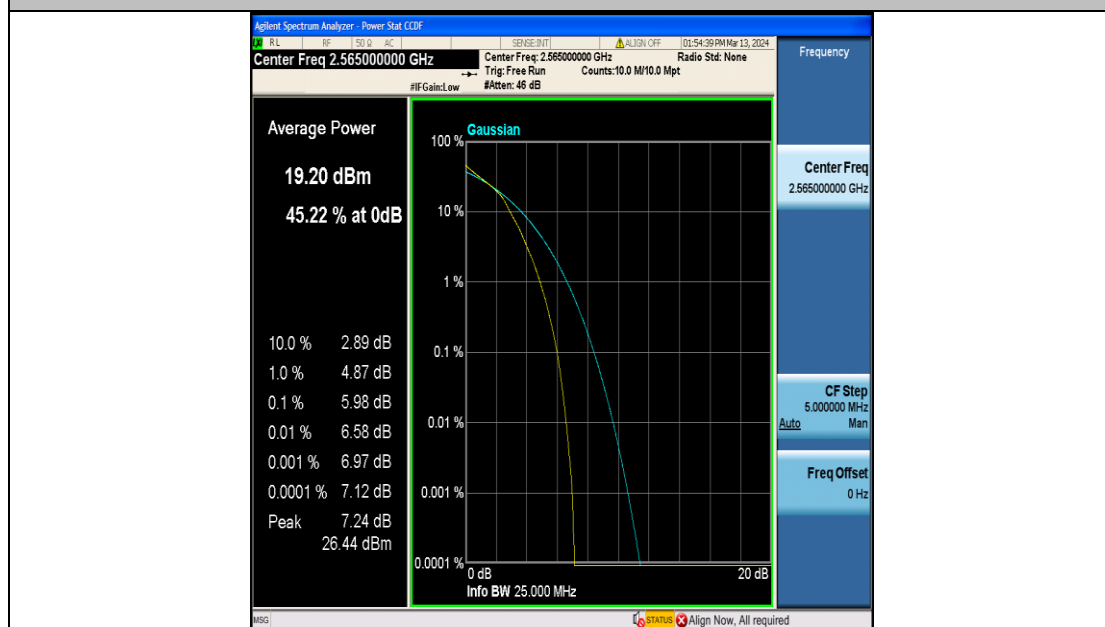
Band7-10MHz-QPSK-21100-50RB#0-PASS



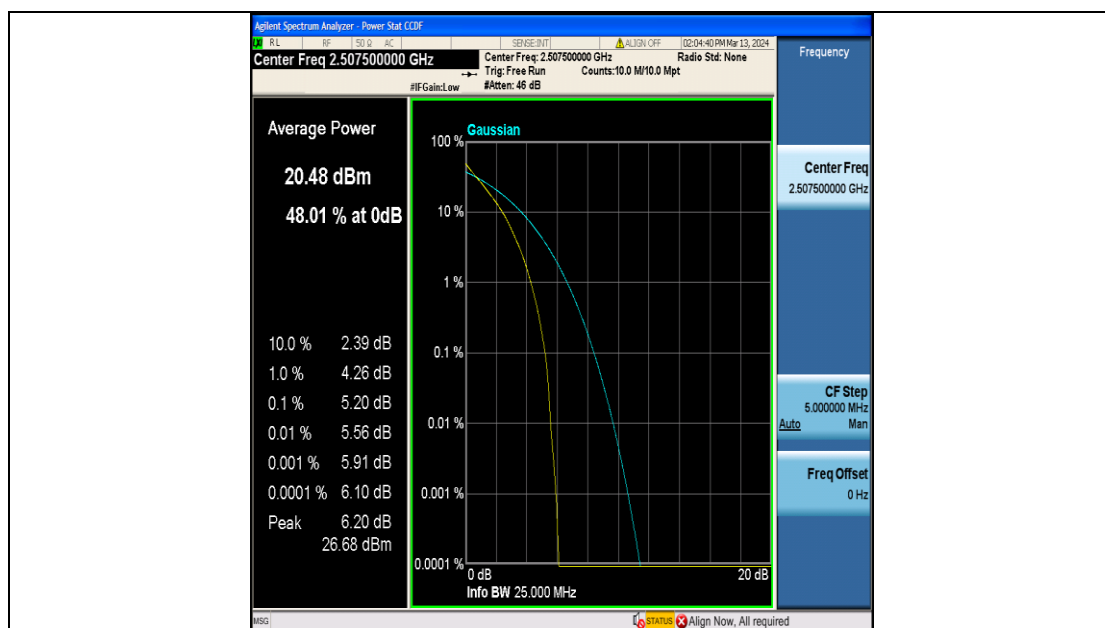
Band7-10MHz-16QAM-21100-50RB#0-PASS



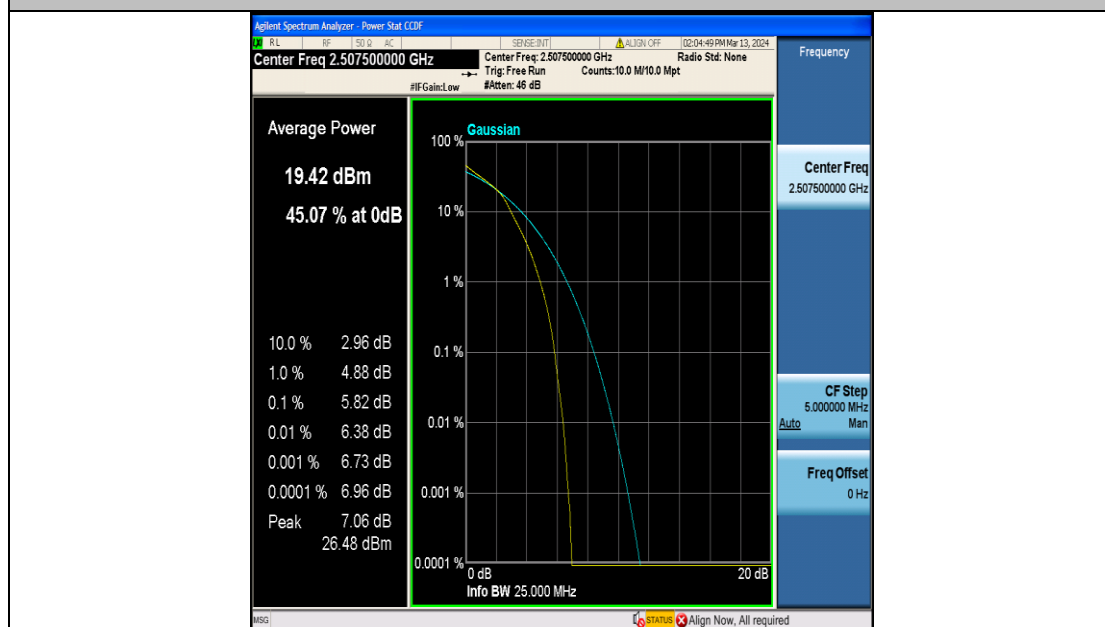
Band7-10MHz-QPSK-21400-50RB#0-PASS



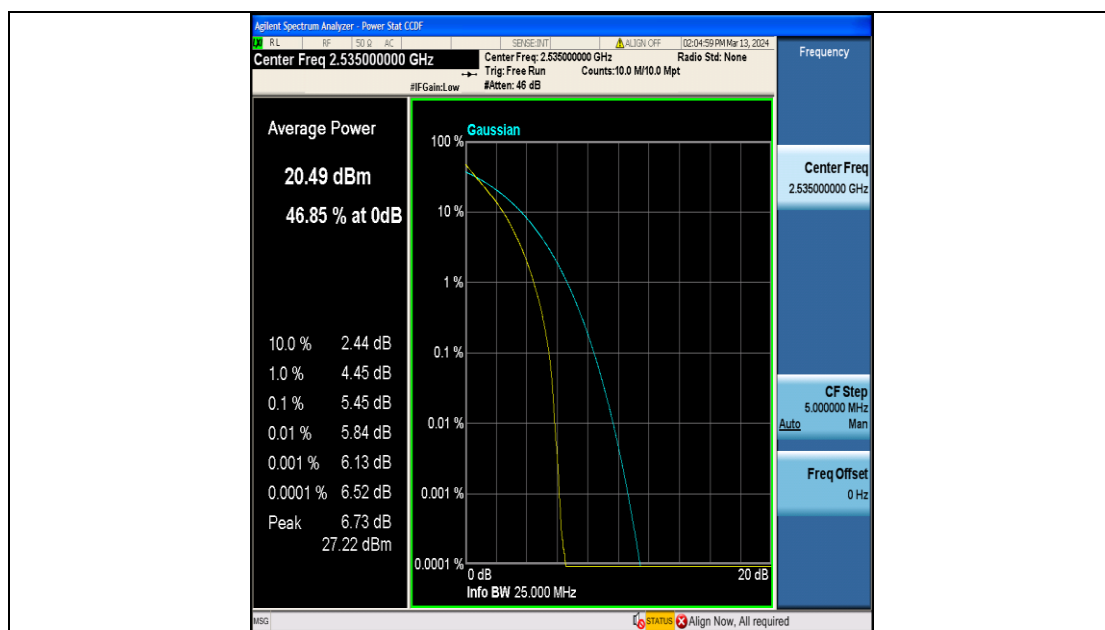
Band7-10MHz-16QAM-21400-50RB#0-PASS



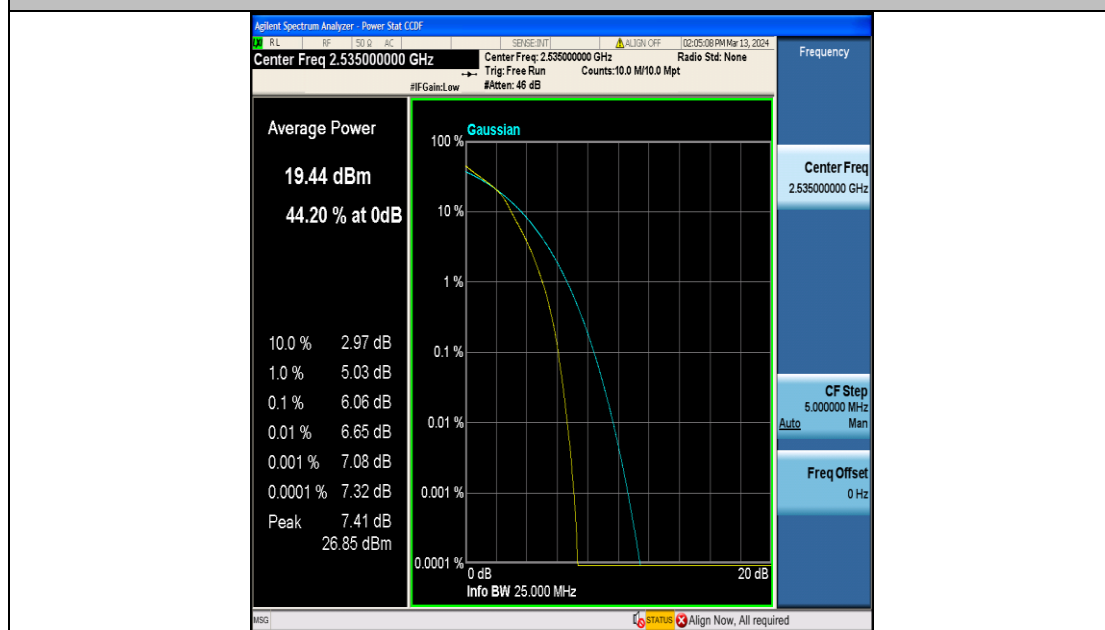
Band7-15MHz-QPSK-20825-75RB#0-PASS



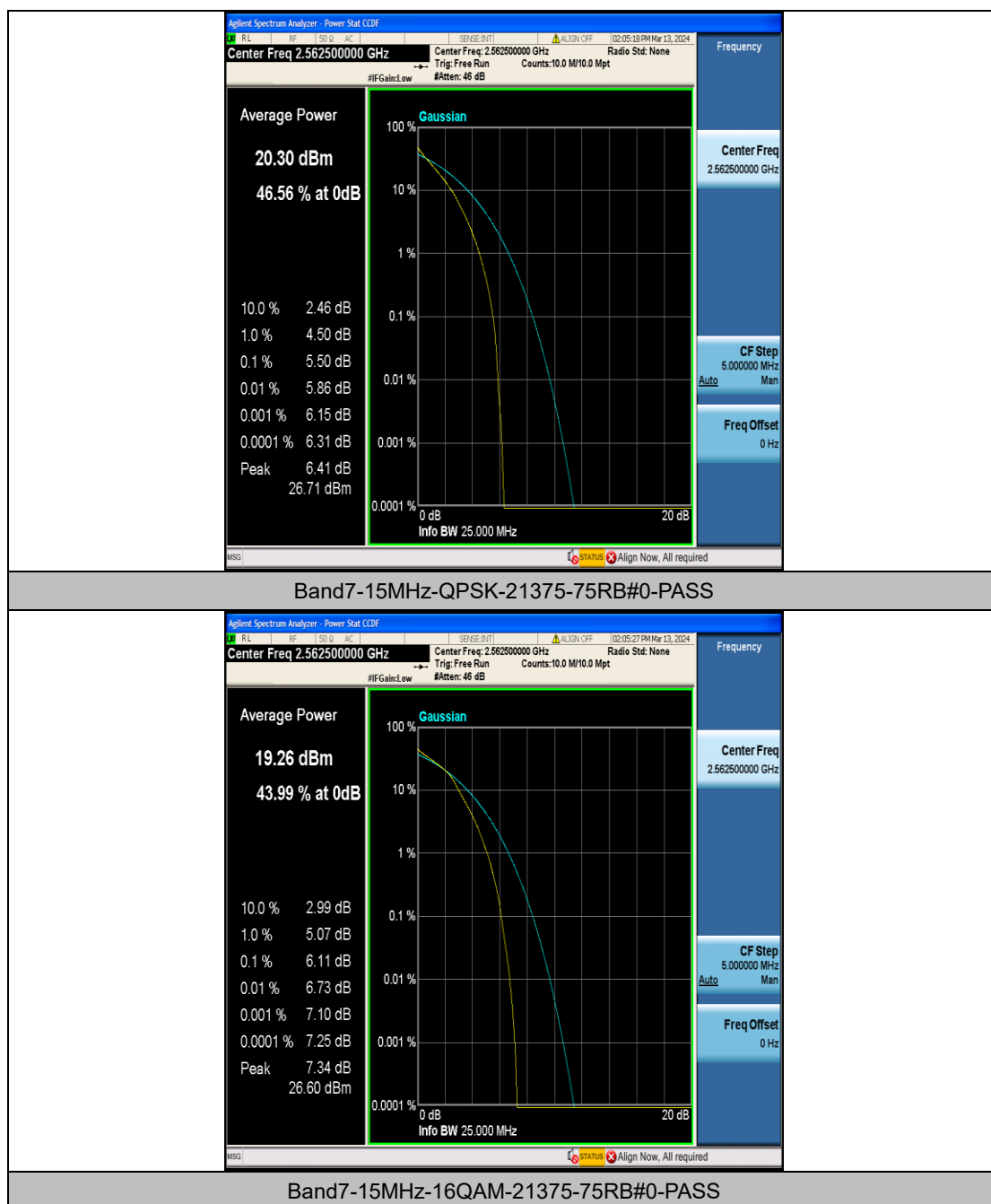
Band7-15MHz-16QAM-20825-75RB#0-PASS

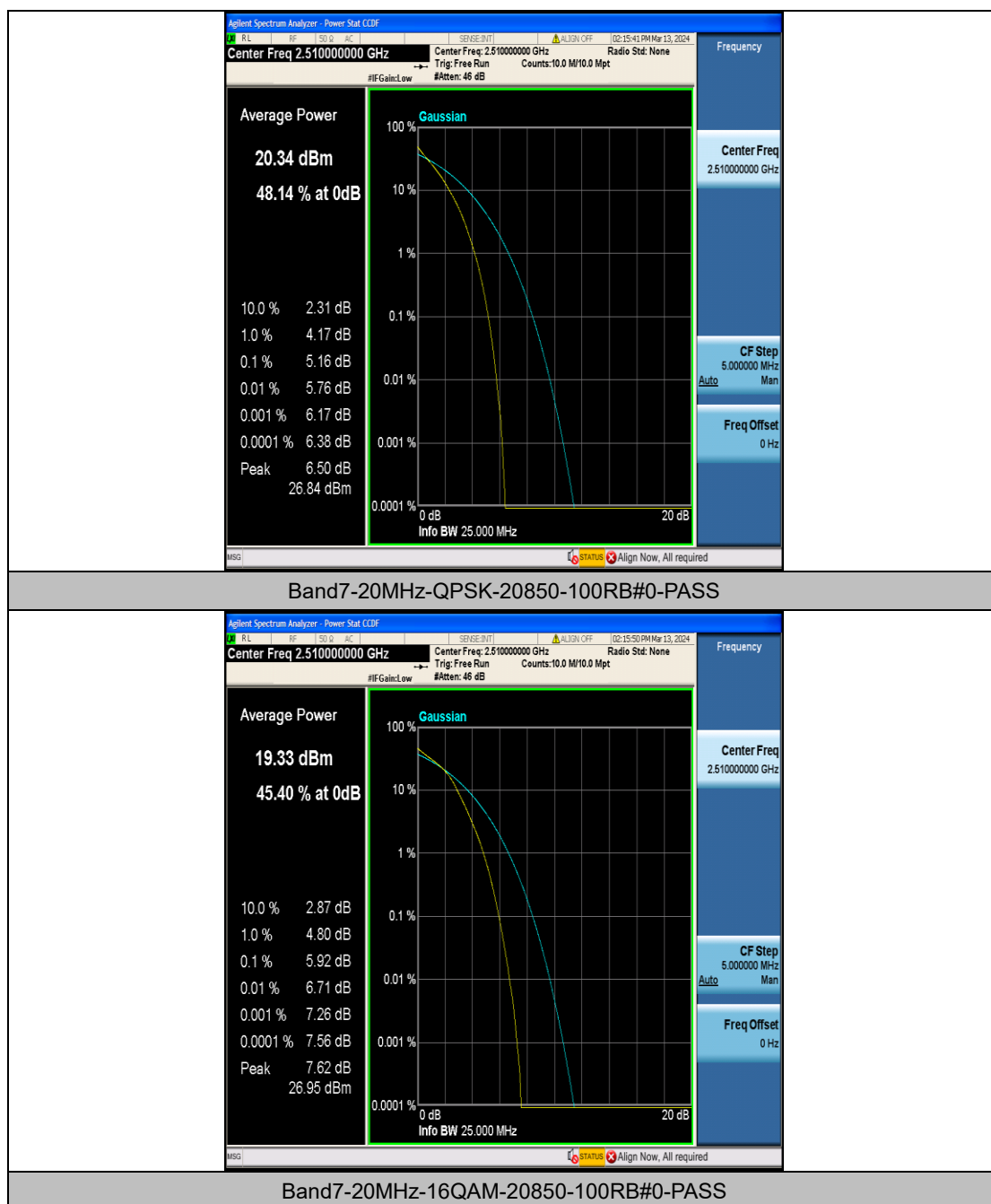


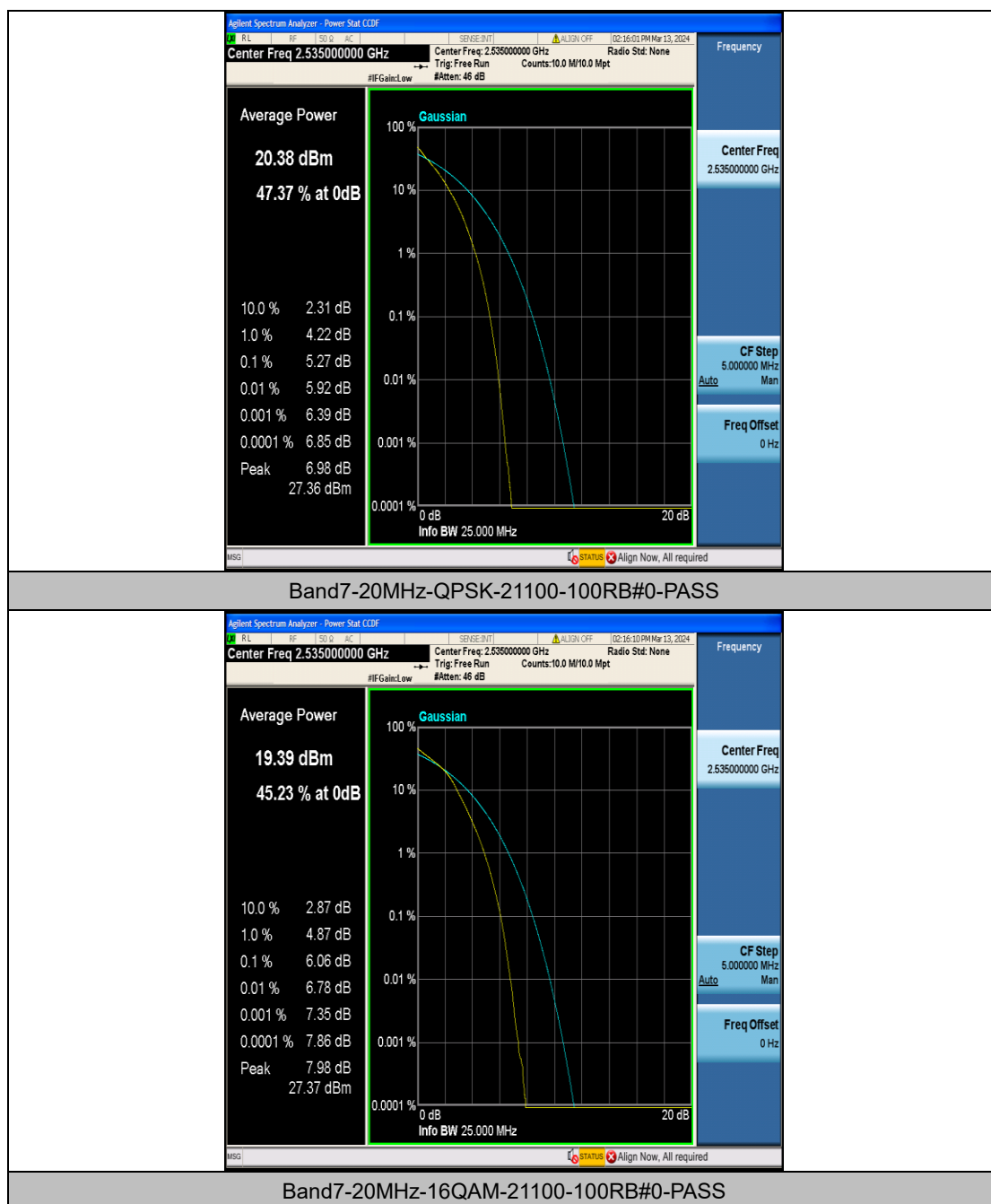
Band7-15MHz-QPSK-21100-75RB#0-PASS

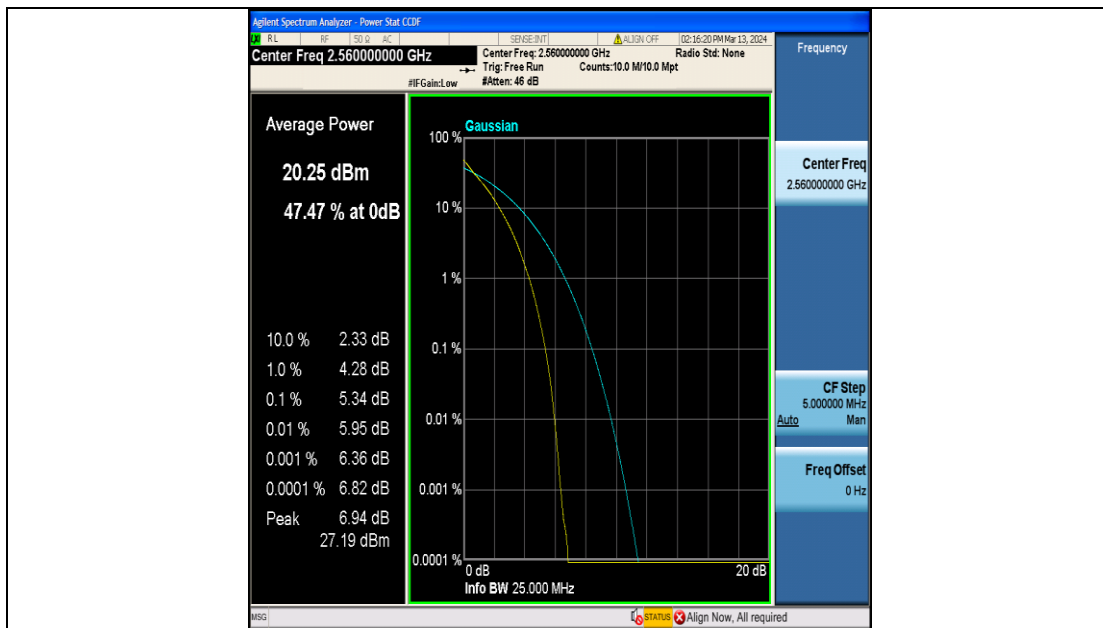


Band7-15MHz-16QAM-21100-75RB#0-PASS

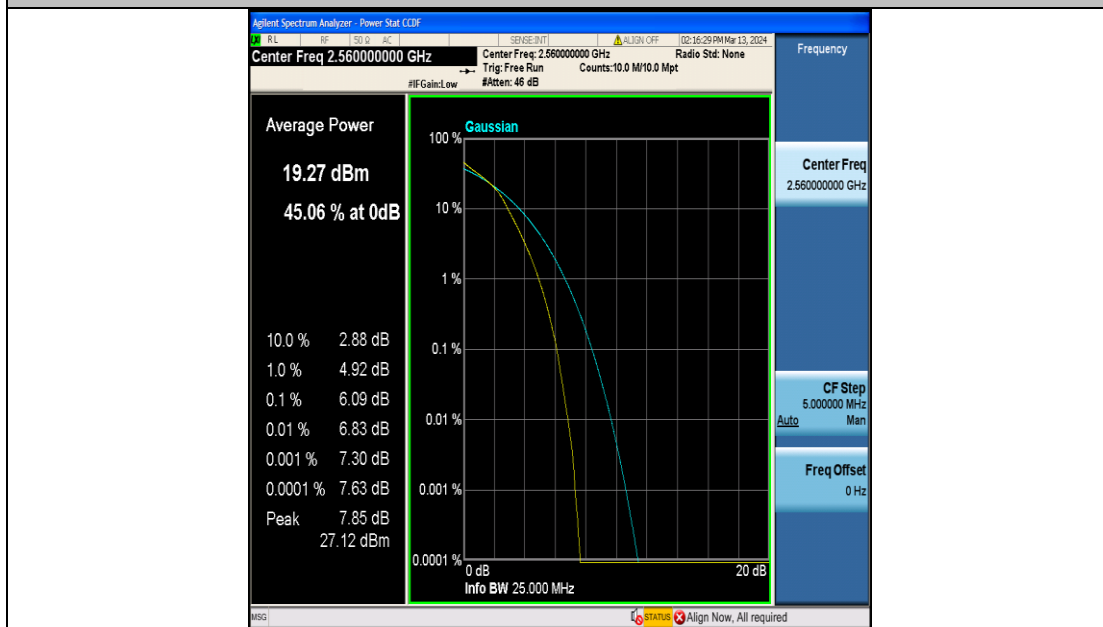








Band7-20MHz-QPSK-21350-100RB#0-PASS



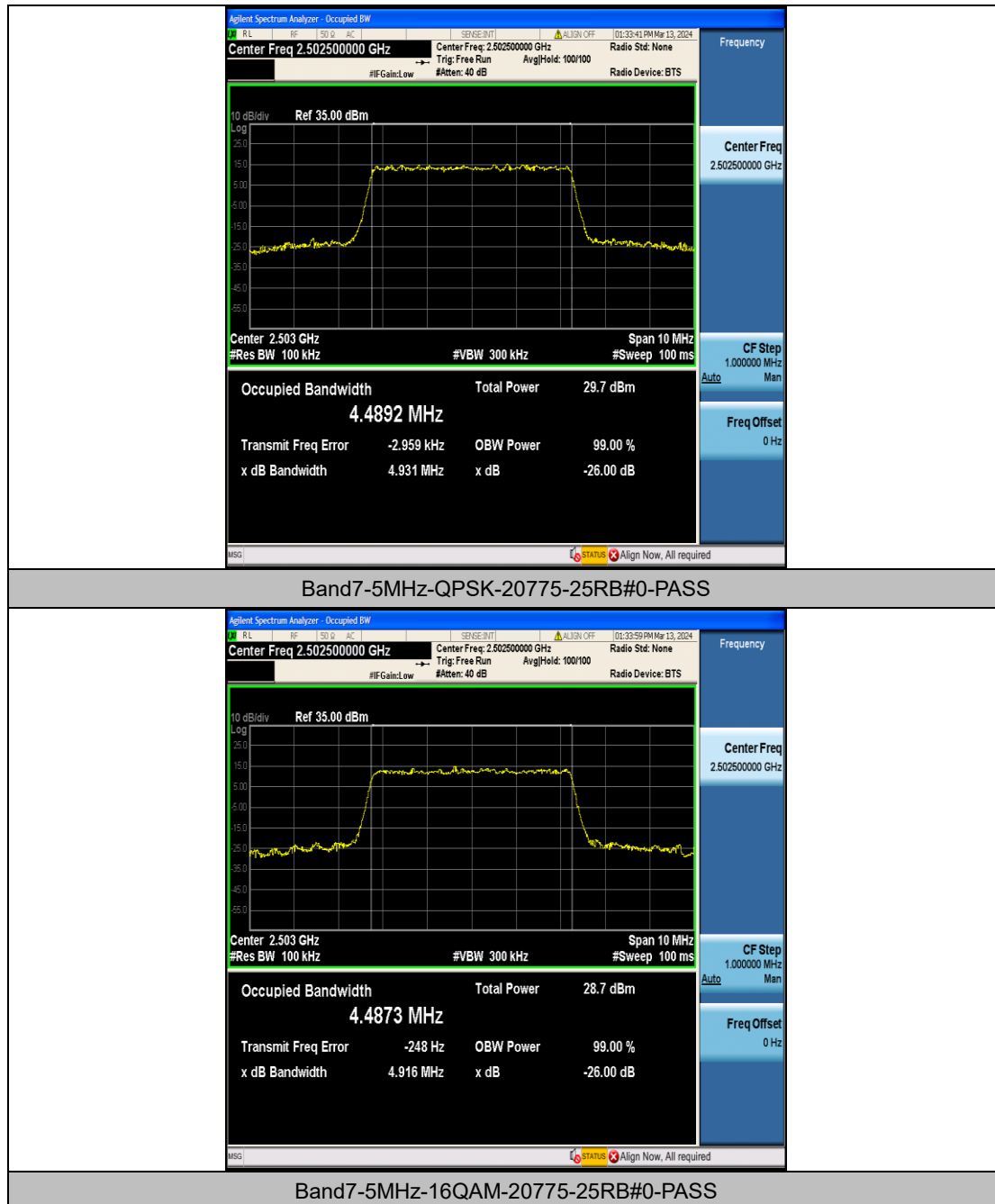
Band7-20MHz-16QAM-21350-100RB#0-PASS

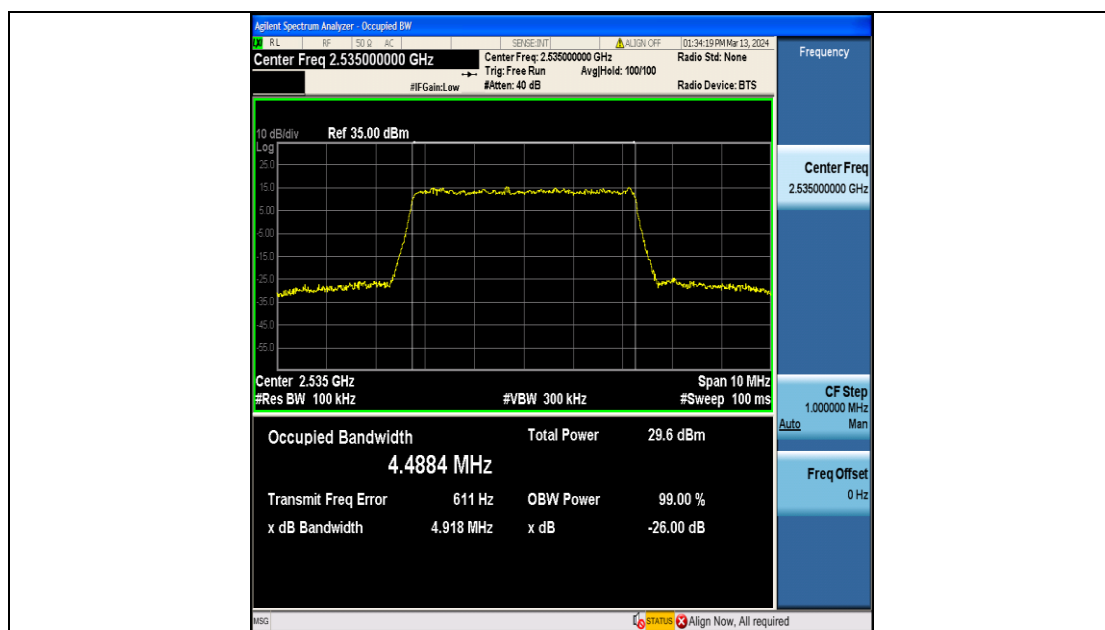
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

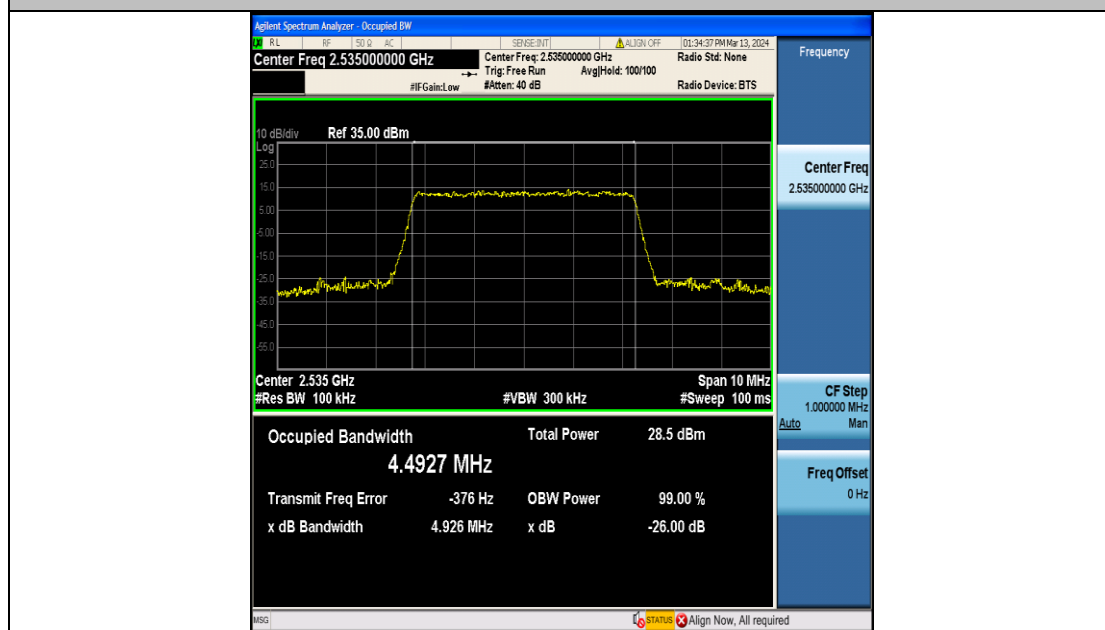
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4892	4.931	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4873	4.916	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4884	4.918	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4927	4.926	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4966	4.971	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5025	4.948	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9963	9.850	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9792	9.778	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9830	9.784	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9730	9.772	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9684	9.748	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9758	9.717	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.490	14.65	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.476	14.65	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.476	14.63	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.467	14.62	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.443	14.57	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.474	14.66	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.951	19.34	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.967	19.39	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.982	19.50	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.944	19.35	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.951	19.32	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.987	19.37	PASS

Test Graphs

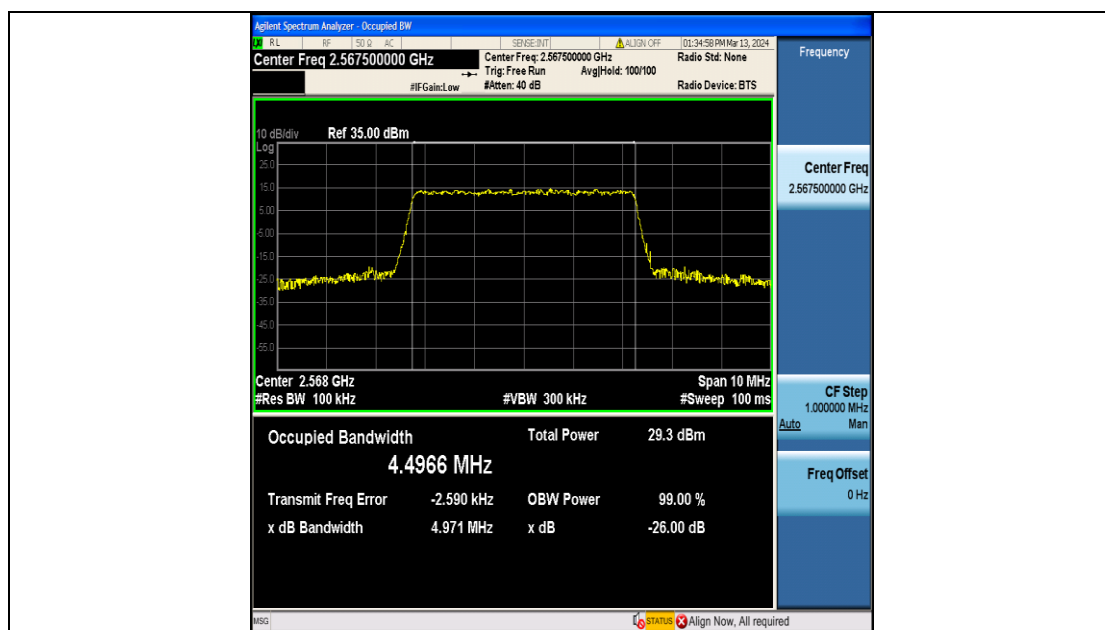




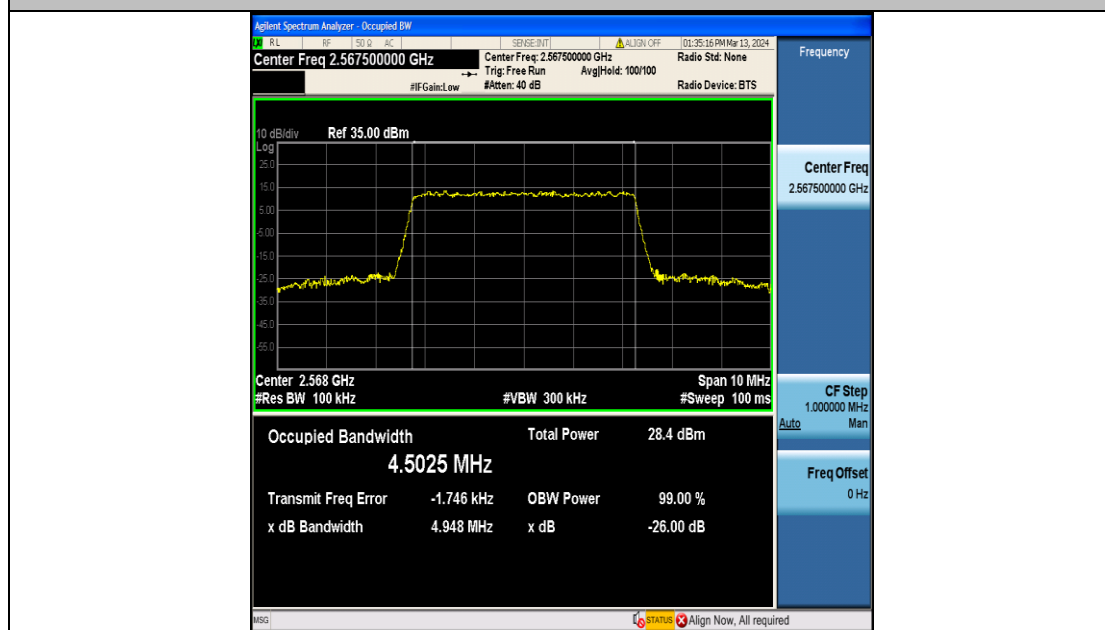
Band7-5MHz-QPSK-21100-25RB#0-PASS



Band7-5MHz-16QAM-21100-25RB#0-PASS



Band7-5MHz-QPSK-21425-25RB#0-PASS



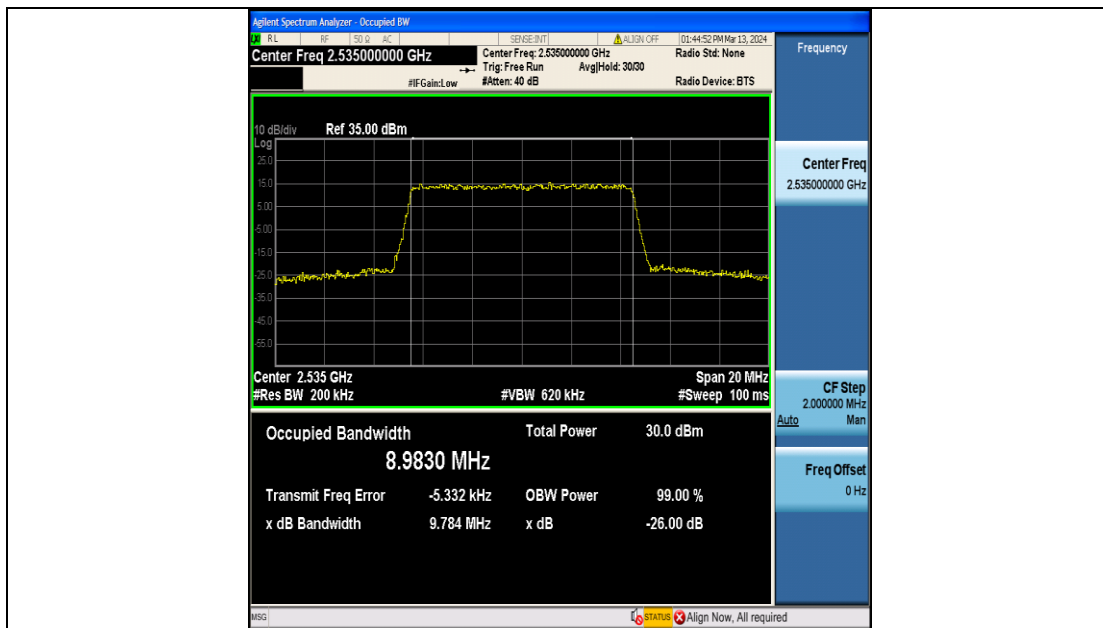
Band7-5MHz-16QAM-21425-25RB#0-PASS



Band7-10MHz-QPSK-20800-50RB#0-PASS



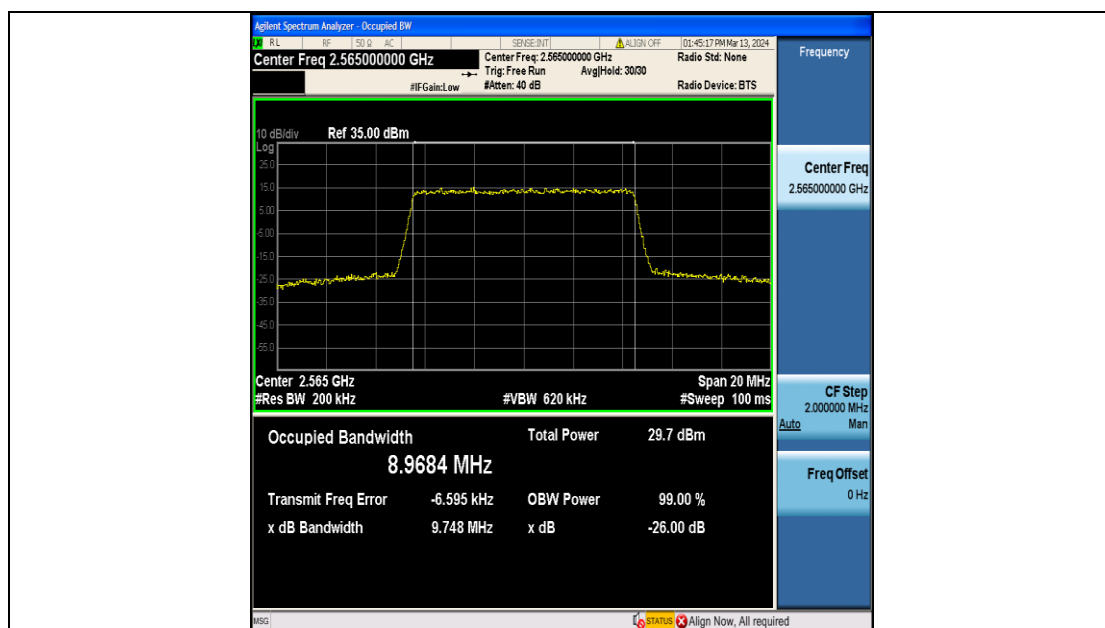
Band7-10MHz-16QAM-20800-50RB#0-PASS



Band7-10MHz-QPSK-21100-50RB#0-PASS



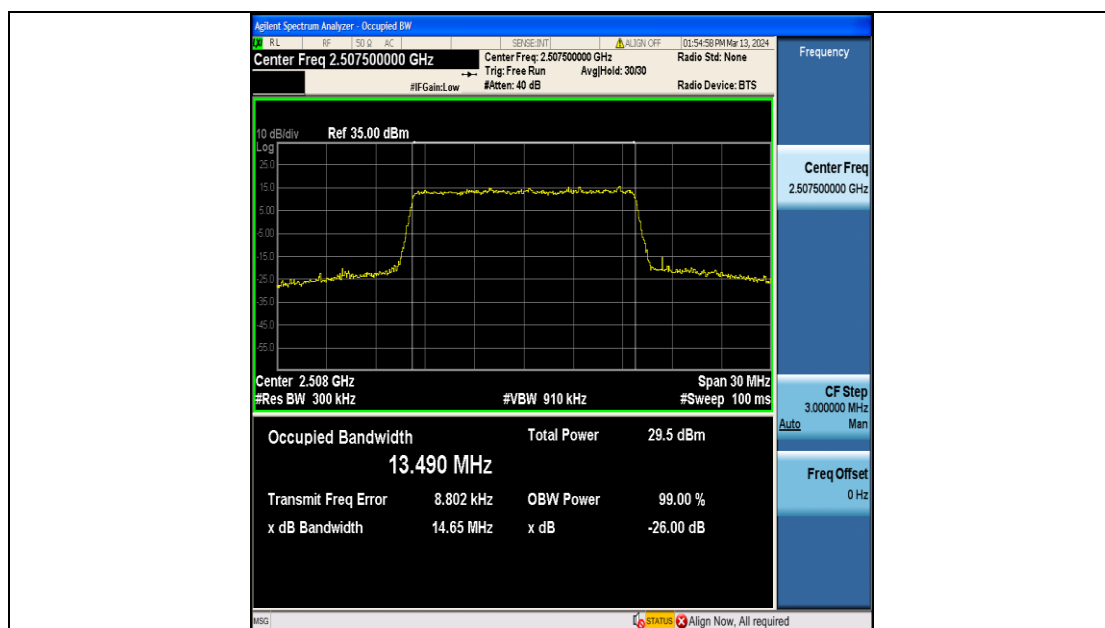
Band7-10MHz-16QAM-21100-50RB#0-PASS



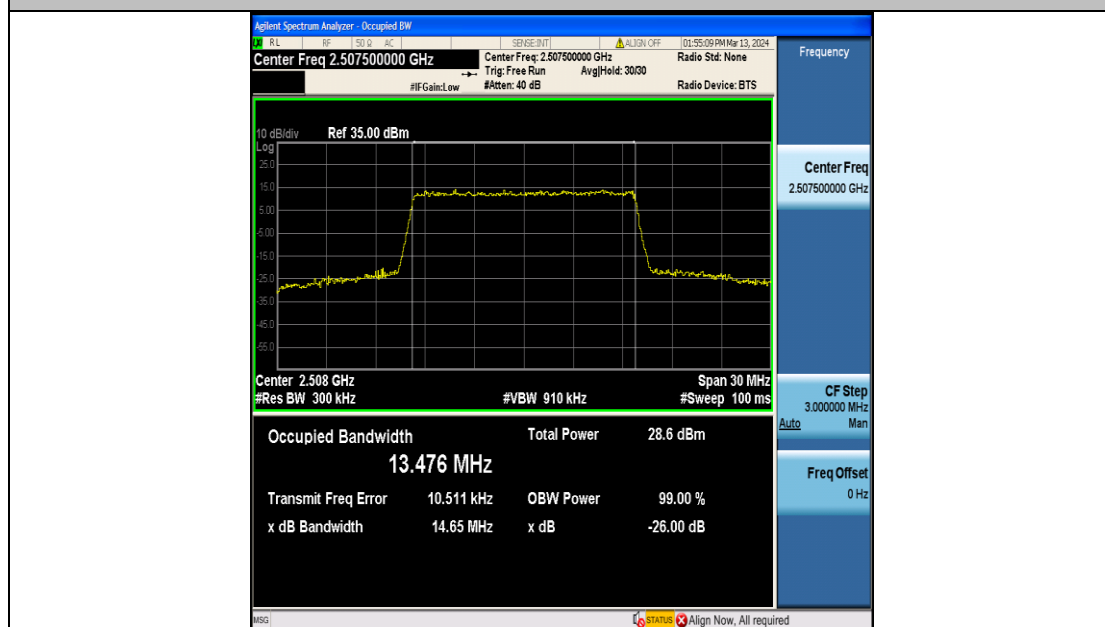
Band7-10MHz-QPSK-21400-50RB#0-PASS



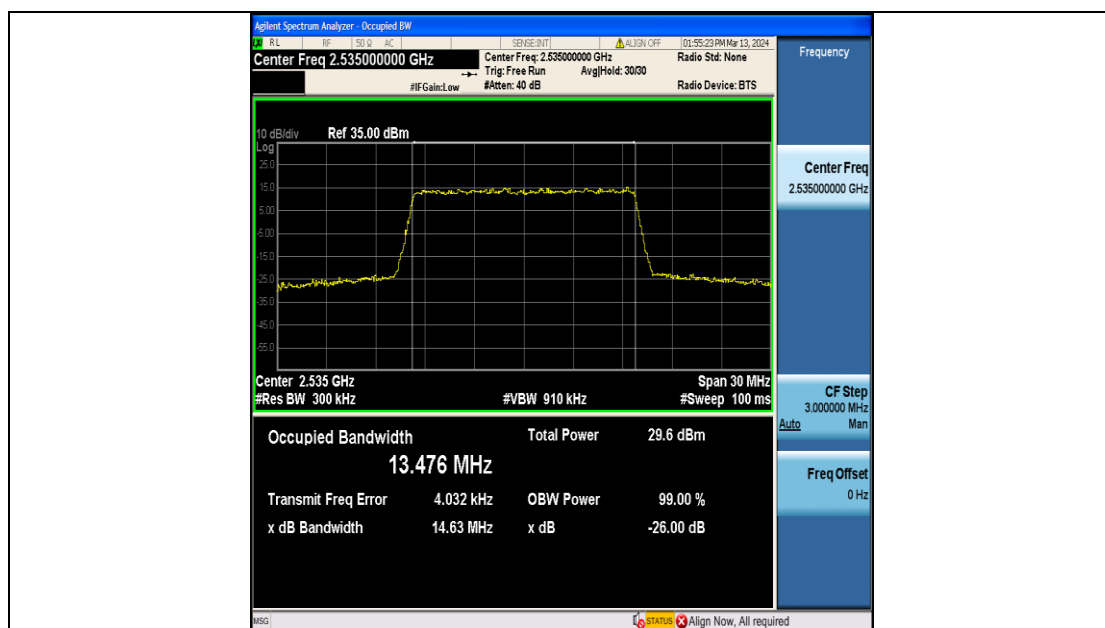
Band7-10MHz-16QAM-21400-50RB#0-PASS



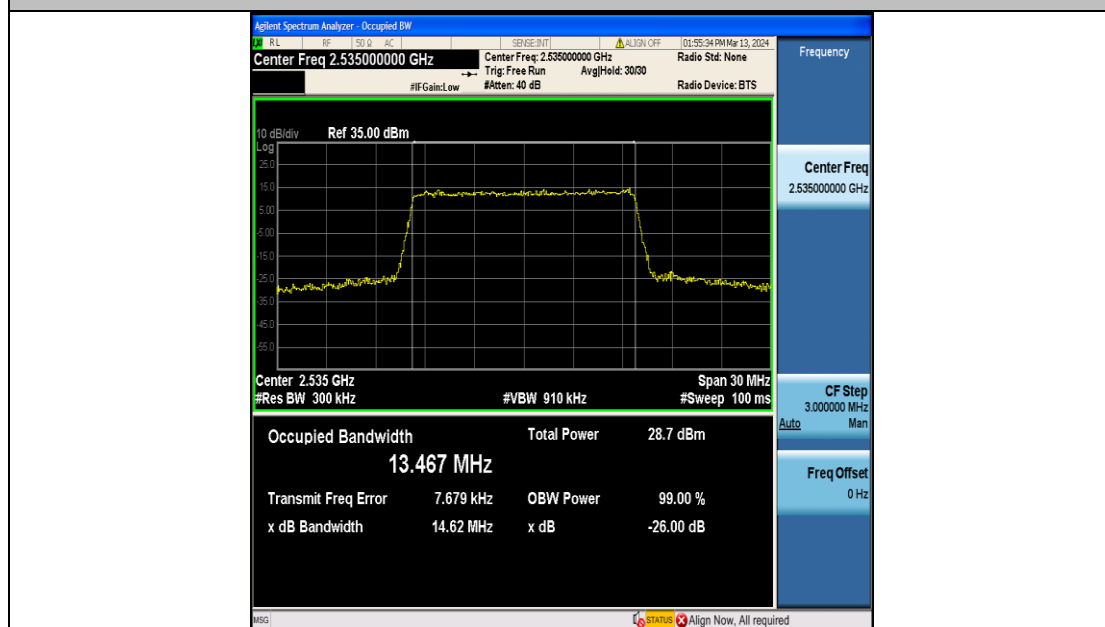
Band7-15MHz-QPSK-20825-75RB#0-PASS



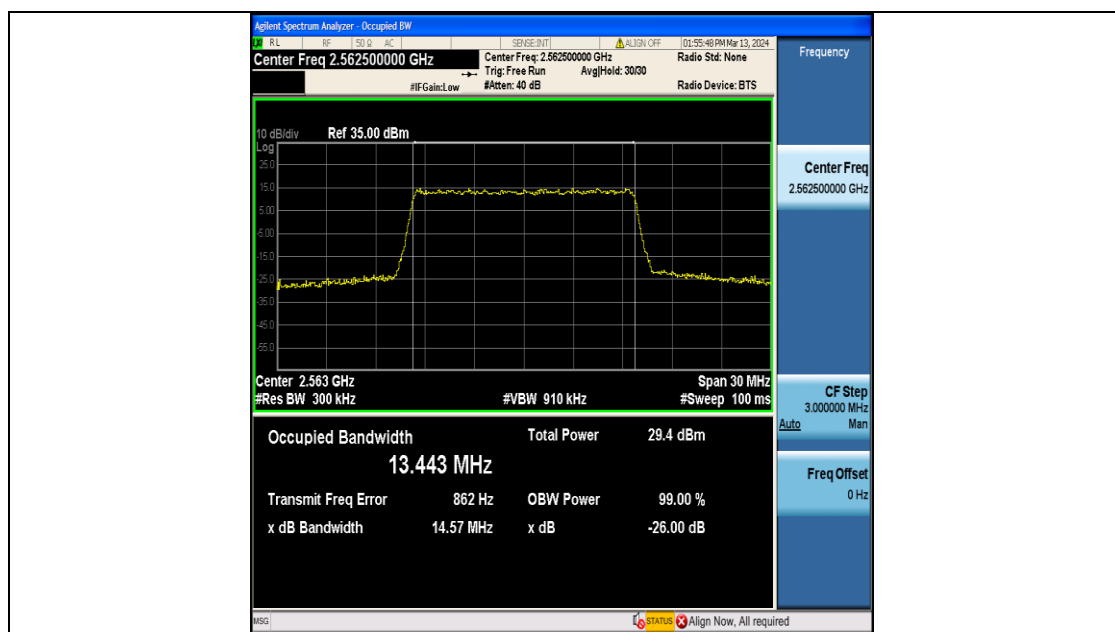
Band7-15MHz-16QAM-20825-75RB#0-PASS



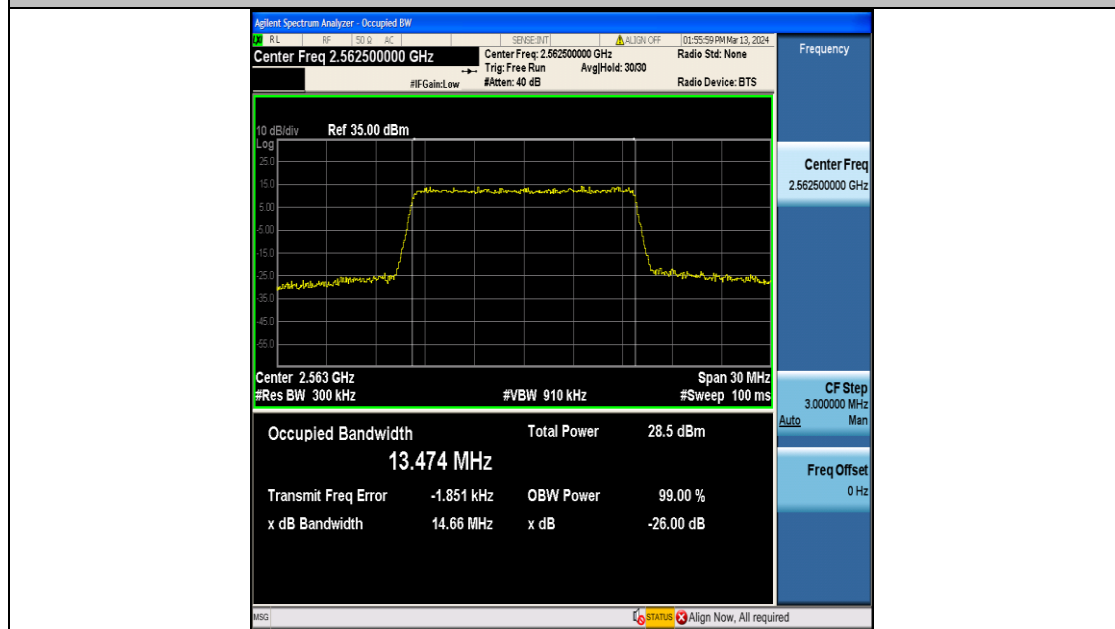
Band7-15MHz-QPSK-21100-75RB#0-PASS



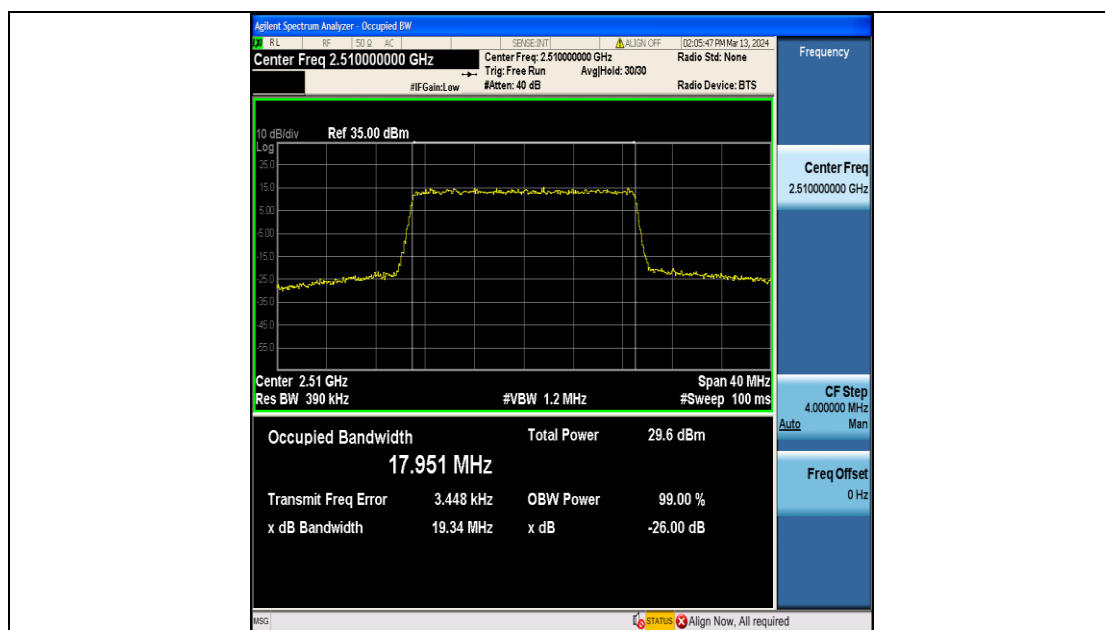
Band7-15MHz-16QAM-21100-75RB#0-PASS



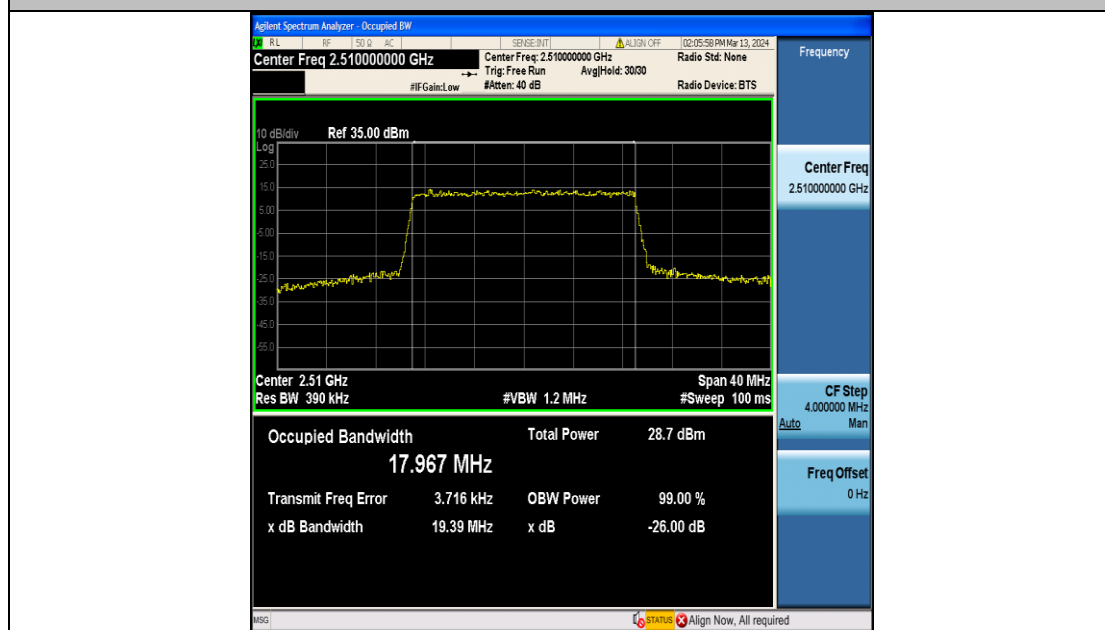
Band7-15MHz-QPSK-21375-75RB#0-PASS



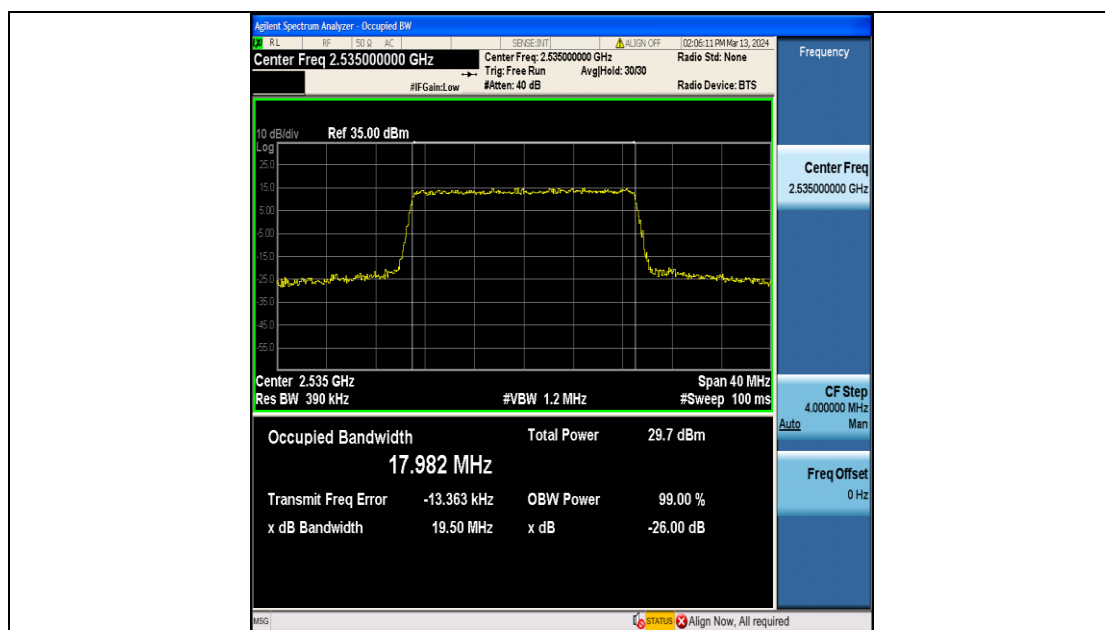
Band7-15MHz-16QAM-21375-75RB#0-PASS



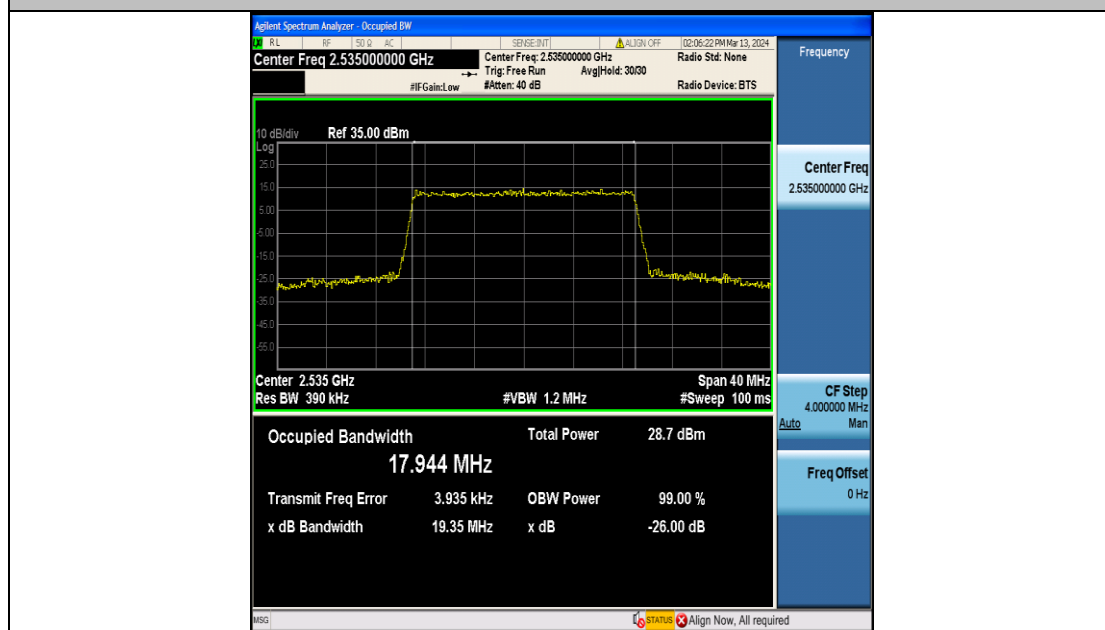
Band7-20MHz-QPSK-20850-100RB#0-PASS



Band7-20MHz-16QAM-20850-100RB#0-PASS



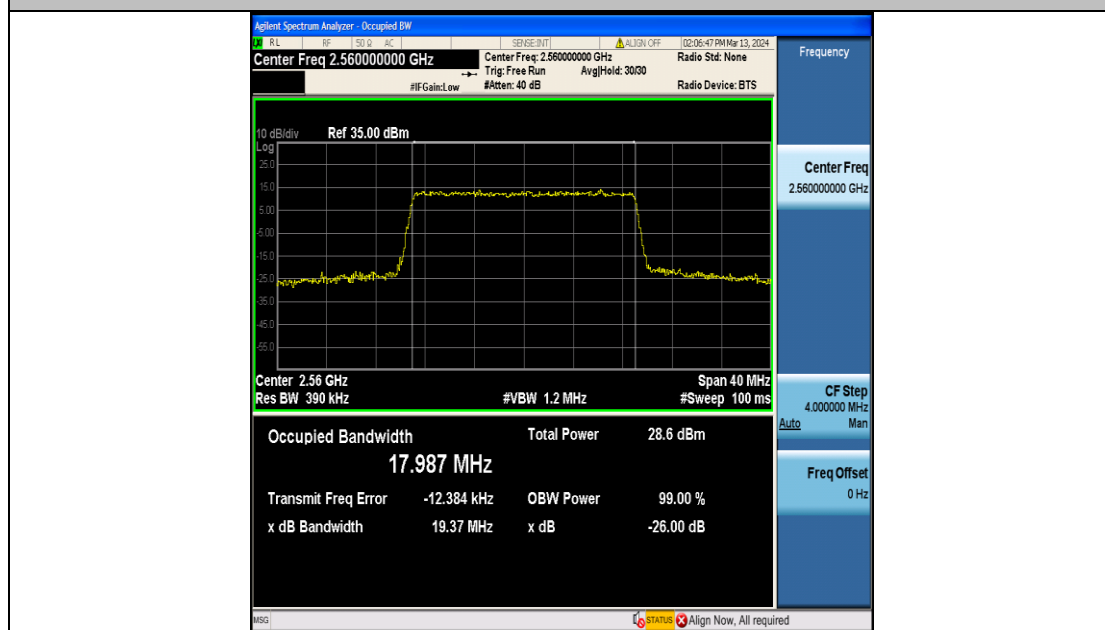
Band7-20MHz-QPSK-21100-100RB#0-PASS



Band7-20MHz-16QAM-21100-100RB#0-PASS



Band7-20MHz-QPSK-21350-100RB#0-PASS



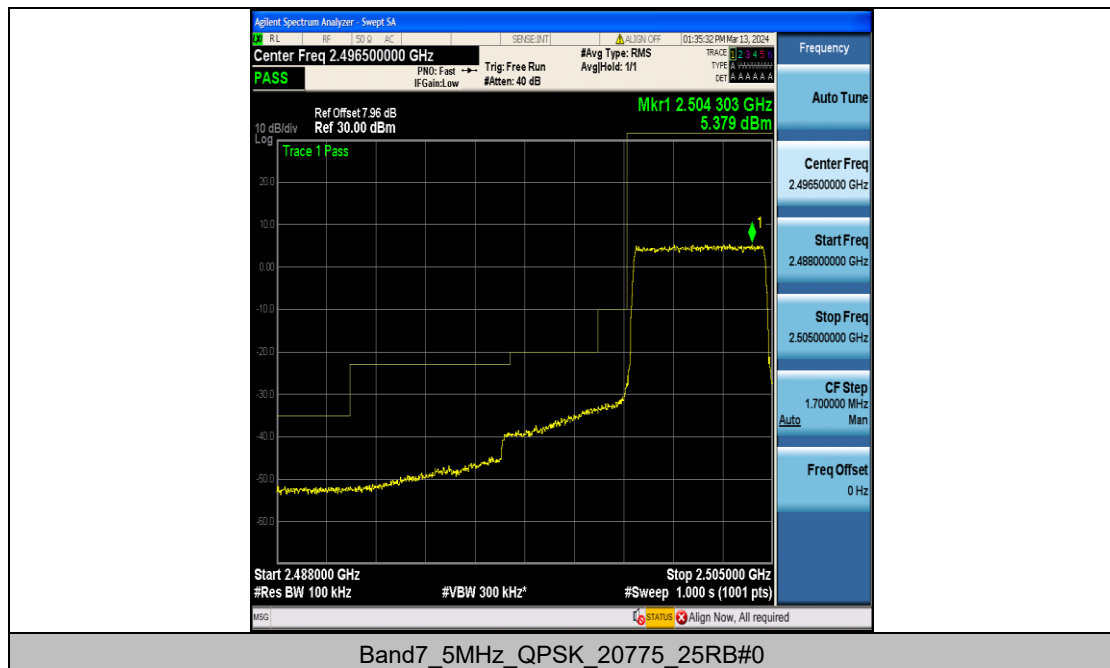
Band7-20MHz-16QAM-21350-100RB#0-PASS

Appendix D: Band Edge

Test Result

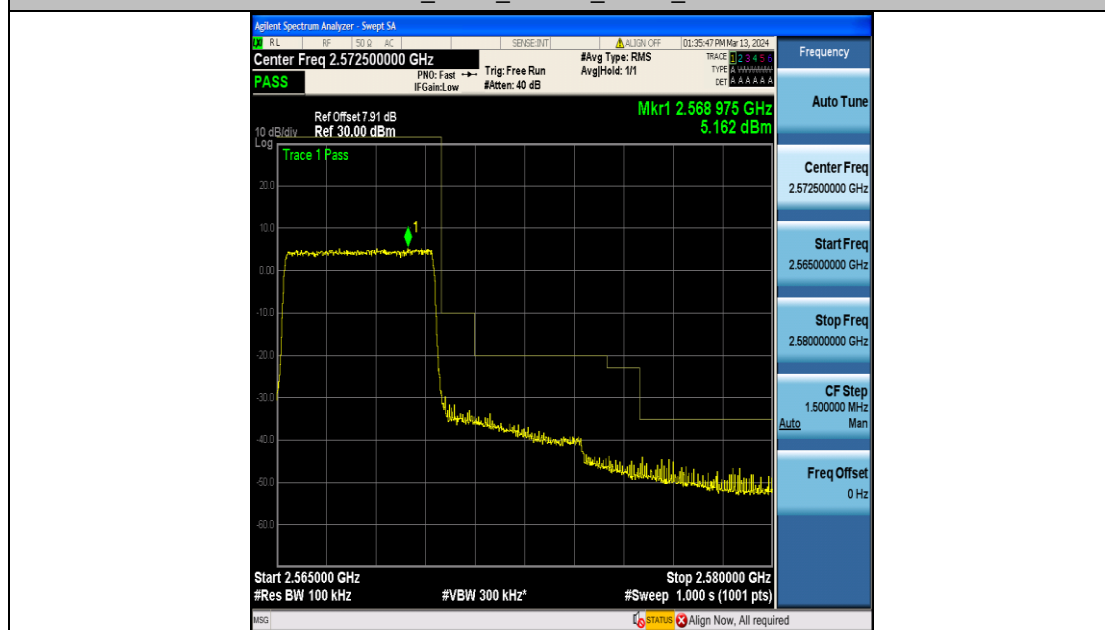
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-33.31	PASS
Band7	5MHz	16QAM	20775	25RB#0	-35.35	PASS
Band7	5MHz	QPSK	21425	25RB#0	-44.05	PASS
Band7	5MHz	16QAM	21425	25RB#0	-44.66	PASS
Band7	10MHz	QPSK	20800	50RB#0	-45.32	PASS
Band7	10MHz	16QAM	20800	50RB#0	-44.99	PASS
Band7	10MHz	QPSK	21400	50RB#0	-46.02	PASS
Band7	10MHz	16QAM	21400	50RB#0	-46.33	PASS
Band7	15MHz	QPSK	20825	75RB#0	-45.58	PASS
Band7	15MHz	16QAM	20825	75RB#0	-45.59	PASS
Band7	15MHz	QPSK	21375	75RB#0	-44.61	PASS
Band7	15MHz	16QAM	21375	75RB#0	-44.80	PASS
Band7	20MHz	QPSK	20850	100RB#0	-46.20	PASS
Band7	20MHz	16QAM	20850	100RB#0	-46.32	PASS
Band7	20MHz	QPSK	21350	100RB#0	-45.62	PASS
Band7	20MHz	16QAM	21350	100RB#0	-45.29	PASS

Test Graphs

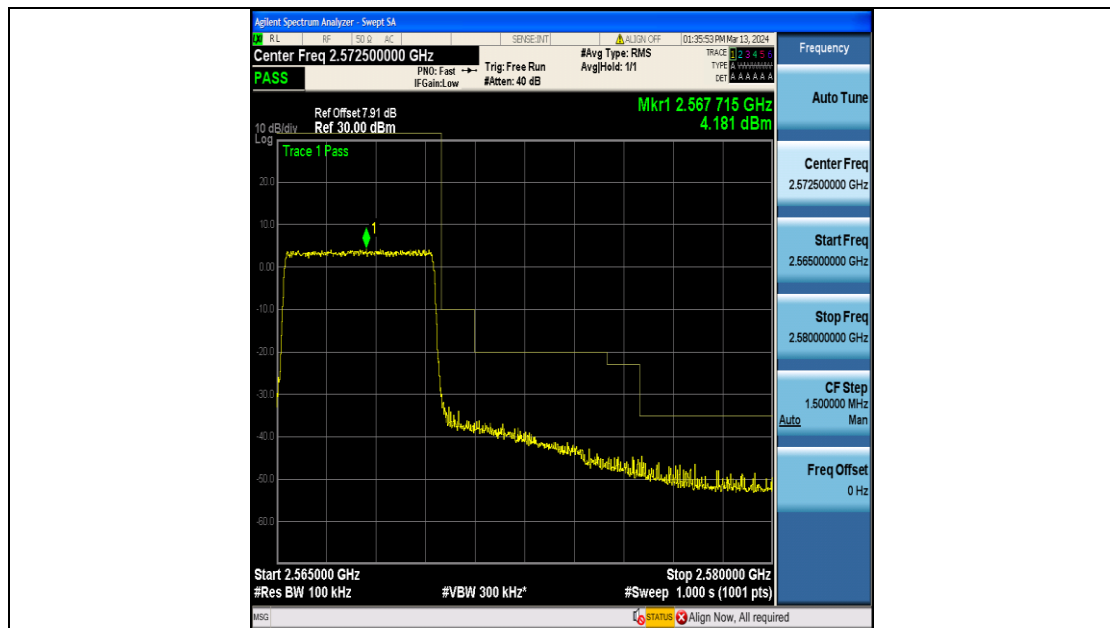




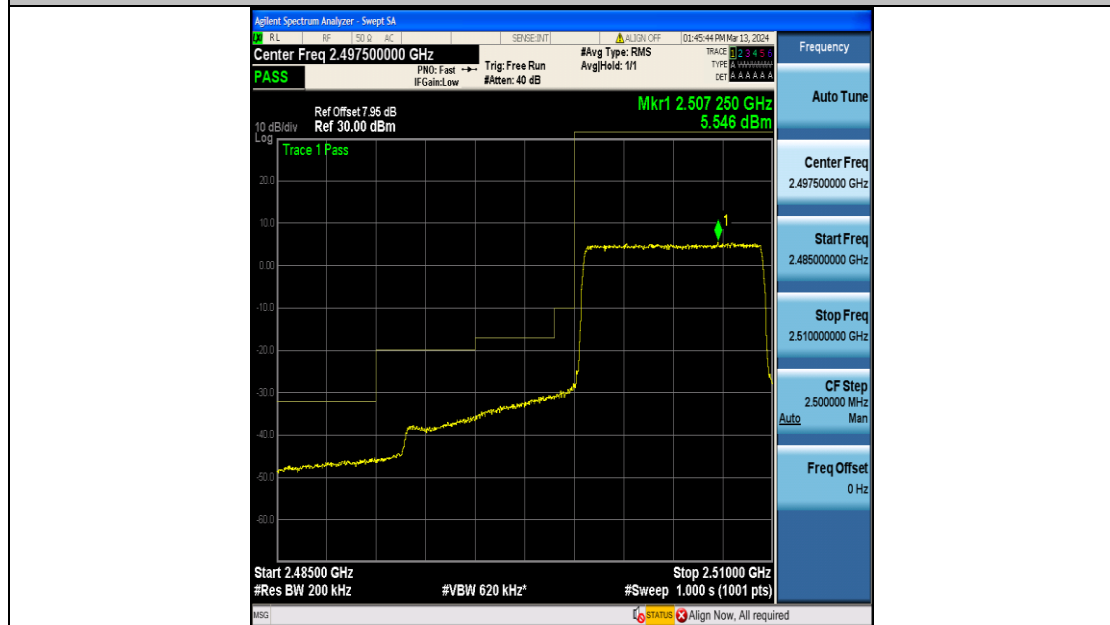
Band7_5MHz_16QAM_20775_25RB#0



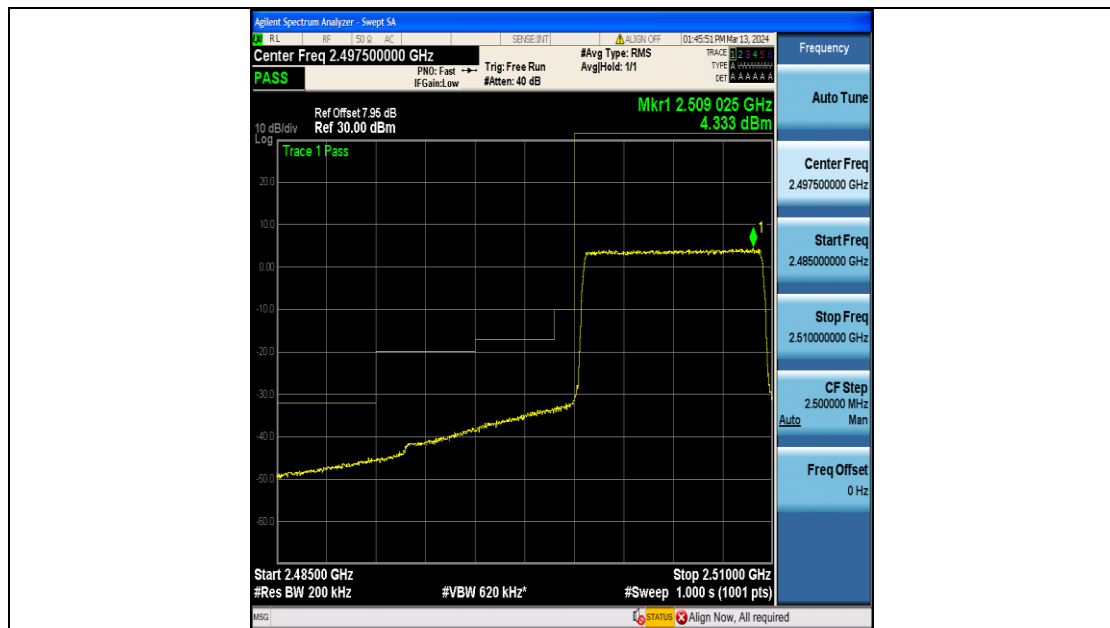
Band7_5MHz_QPSK_21425_25RB#0



Band7_5MHz_16QAM_21425_25RB#0



Band7_10MHz_QPSK_20800_50RB#0



Band7_10MHz_16QAM_20800_50RB#0



Band7_10MHz_QPSK_21400_50RB#0



Band7_10MHz_16QAM_21400_50RB#0



Band7_15MHz_QPSK_20825_75RB#0



Band7_15MHz_16QAM_20825_75RB#0



Band7_15MHz_QPSK_21375_75RB#0

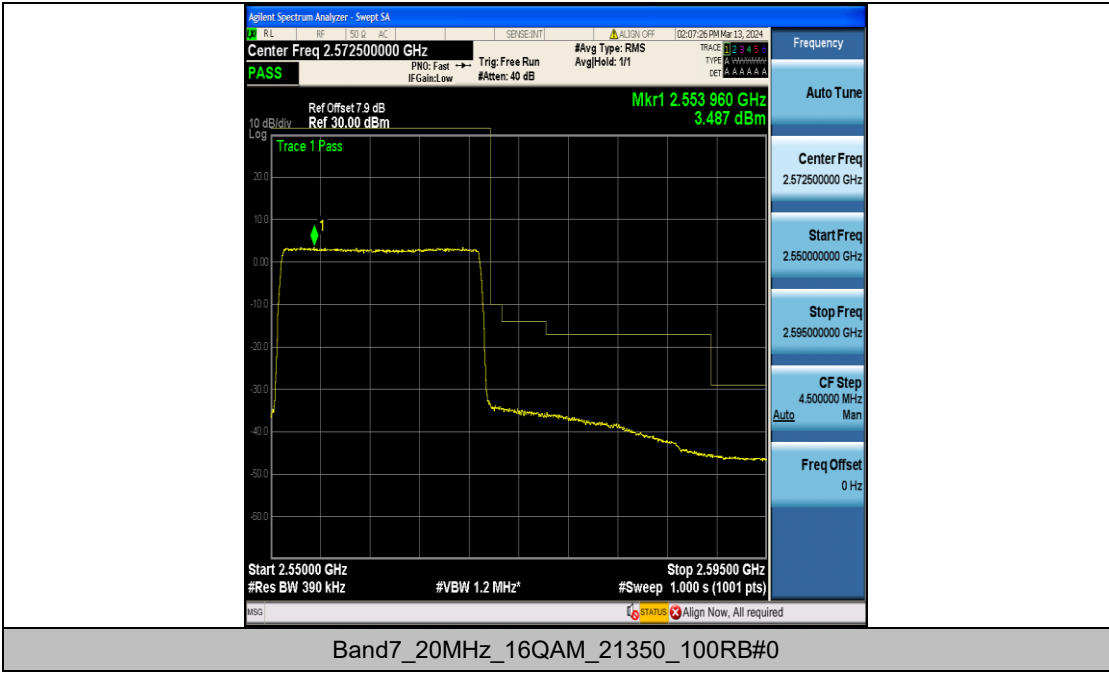


Band7_15MHz_16QAM_21375_75RB#0



Band7_20MHz_QPSK_20850_100RB#0





Appendix E: Conducted Spurious Emission

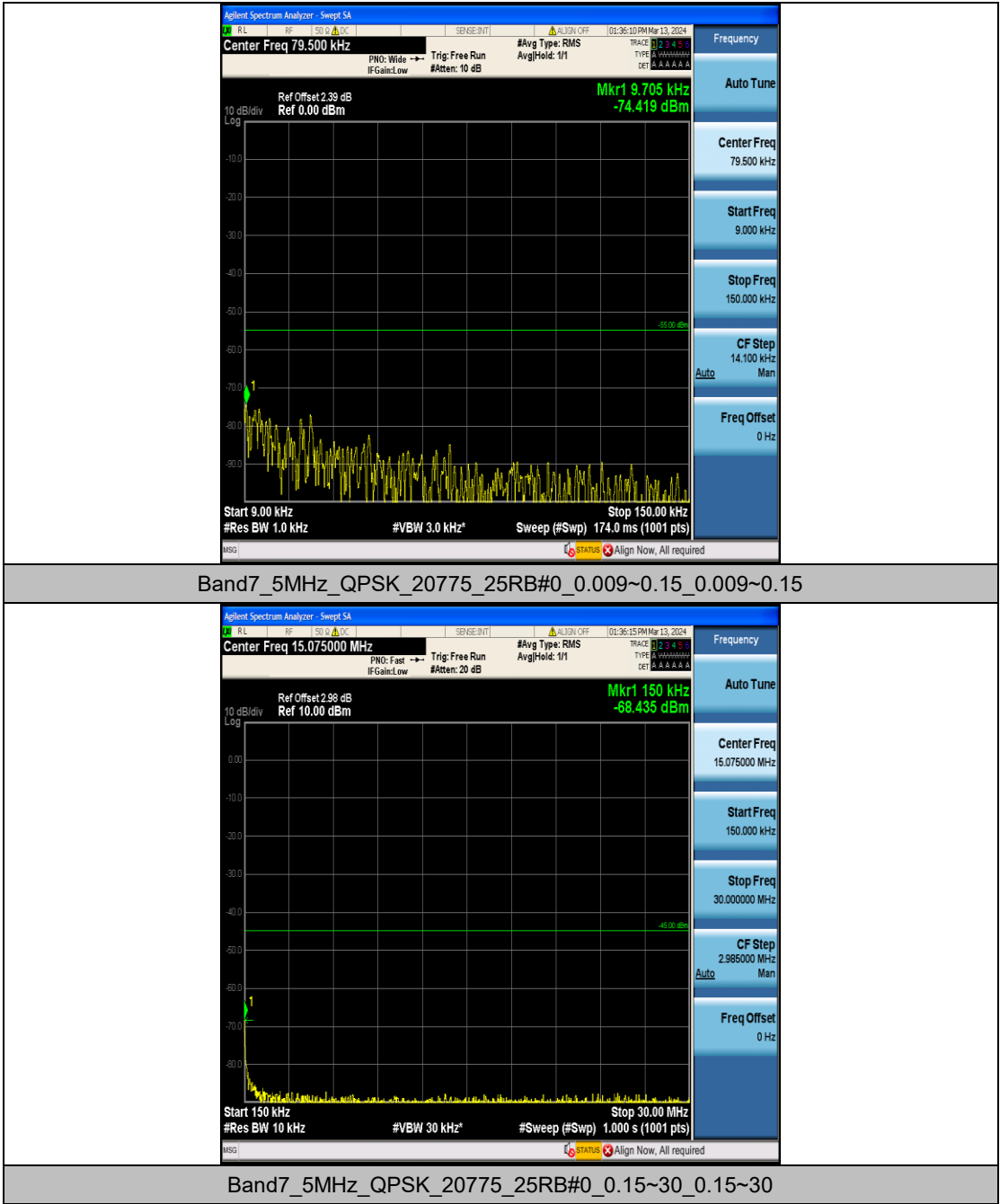
Test Result

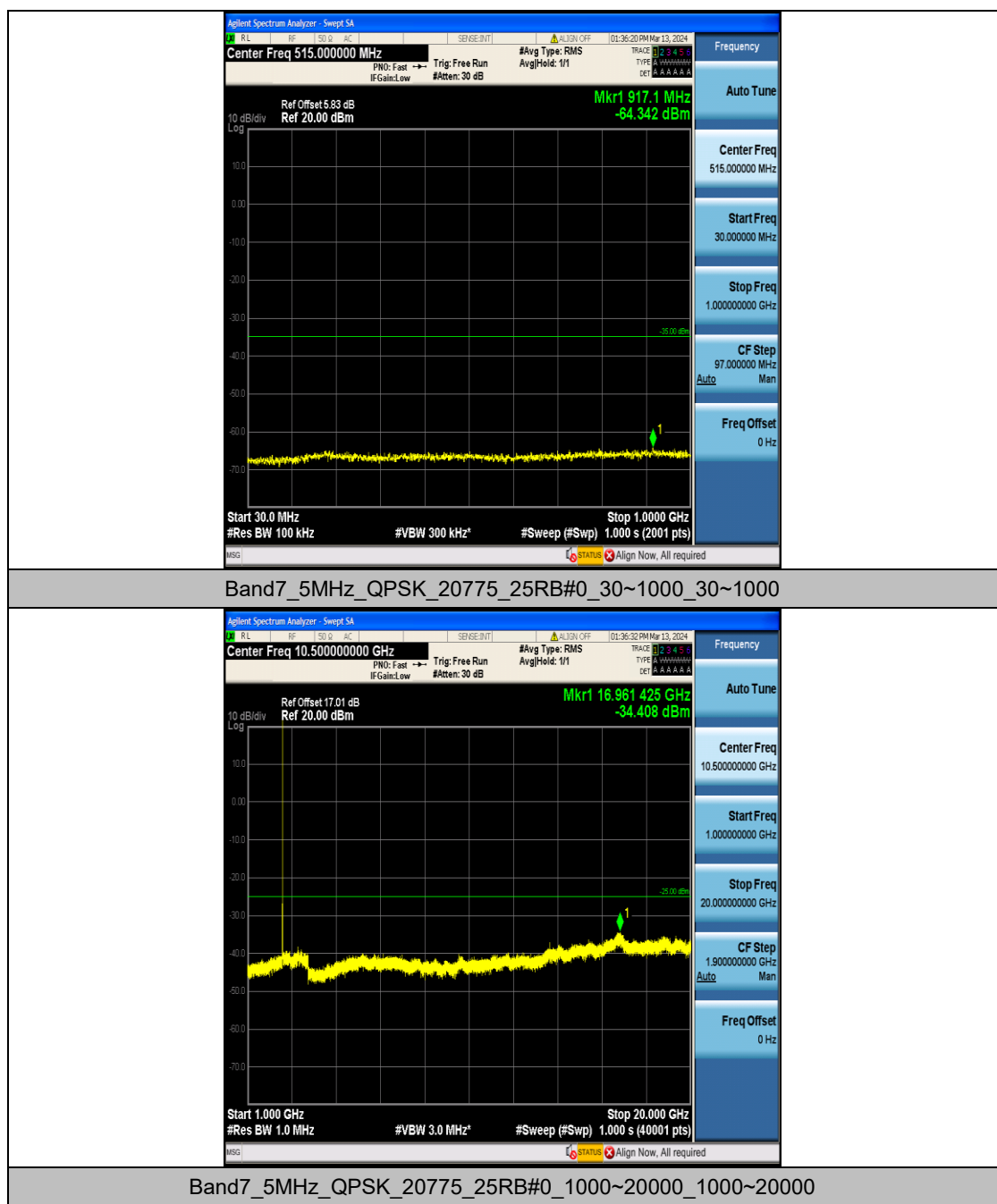
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	0.009~0.15	-74.42	PASS
Band7	5MHz	QPSK	20775	25RB#0	0.15~30	-68.44	PASS
Band7	5MHz	QPSK	20775	25RB#0	30~1000	-64.34	PASS
Band7	5MHz	QPSK	20775	25RB#0	1000~20000	-34.41	PASS
Band7	5MHz	QPSK	20775	25RB#0	20000~27000	-27.75	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.009~0.15	-74.24	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.15~30	-69.05	PASS
Band7	5MHz	16QAM	20775	25RB#0	30~1000	-64.58	PASS
Band7	5MHz	16QAM	20775	25RB#0	1000~20000	-34.47	PASS
Band7	5MHz	16QAM	20775	25RB#0	20000~27000	-28.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.009~0.15	-73.68	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.15~30	-67.60	PASS
Band7	5MHz	QPSK	21100	25RB#0	30~1000	-64.74	PASS
Band7	5MHz	QPSK	21100	25RB#0	1000~20000	-34.70	PASS
Band7	5MHz	QPSK	21100	25RB#0	20000~27000	-28.05	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.009~0.15	-73.26	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.15~30	-67.99	PASS
Band7	5MHz	16QAM	21100	25RB#0	30~1000	-64.44	PASS
Band7	5MHz	16QAM	21100	25RB#0	1000~20000	-34.30	PASS
Band7	5MHz	16QAM	21100	25RB#0	20000~27000	-28.01	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.009~0.15	-72.29	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.15~30	-68.64	PASS
Band7	5MHz	QPSK	21425	25RB#0	30~1000	-64.65	PASS
Band7	5MHz	QPSK	21425	25RB#0	1000~20000	-33.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	20000~27000	-28.05	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.009~0.15	-74.07	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.15~30	-68.66	PASS
Band7	5MHz	16QAM	21425	25RB#0	30~1000	-64.30	PASS
Band7	5MHz	16QAM	21425	25RB#0	1000~20000	-34.09	PASS
Band7	5MHz	16QAM	21425	25RB#0	20000~27000	-28.29	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.009~0.15	-74.53	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.15~30	-66.86	PASS
Band7	10MHz	QPSK	20800	50RB#0	30~1000	-64.45	PASS
Band7	10MHz	QPSK	20800	50RB#0	1000~20000	-34.36	PASS
Band7	10MHz	QPSK	20800	50RB#0	20000~27000	-28.09	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.009~0.15	-72.24	PASS

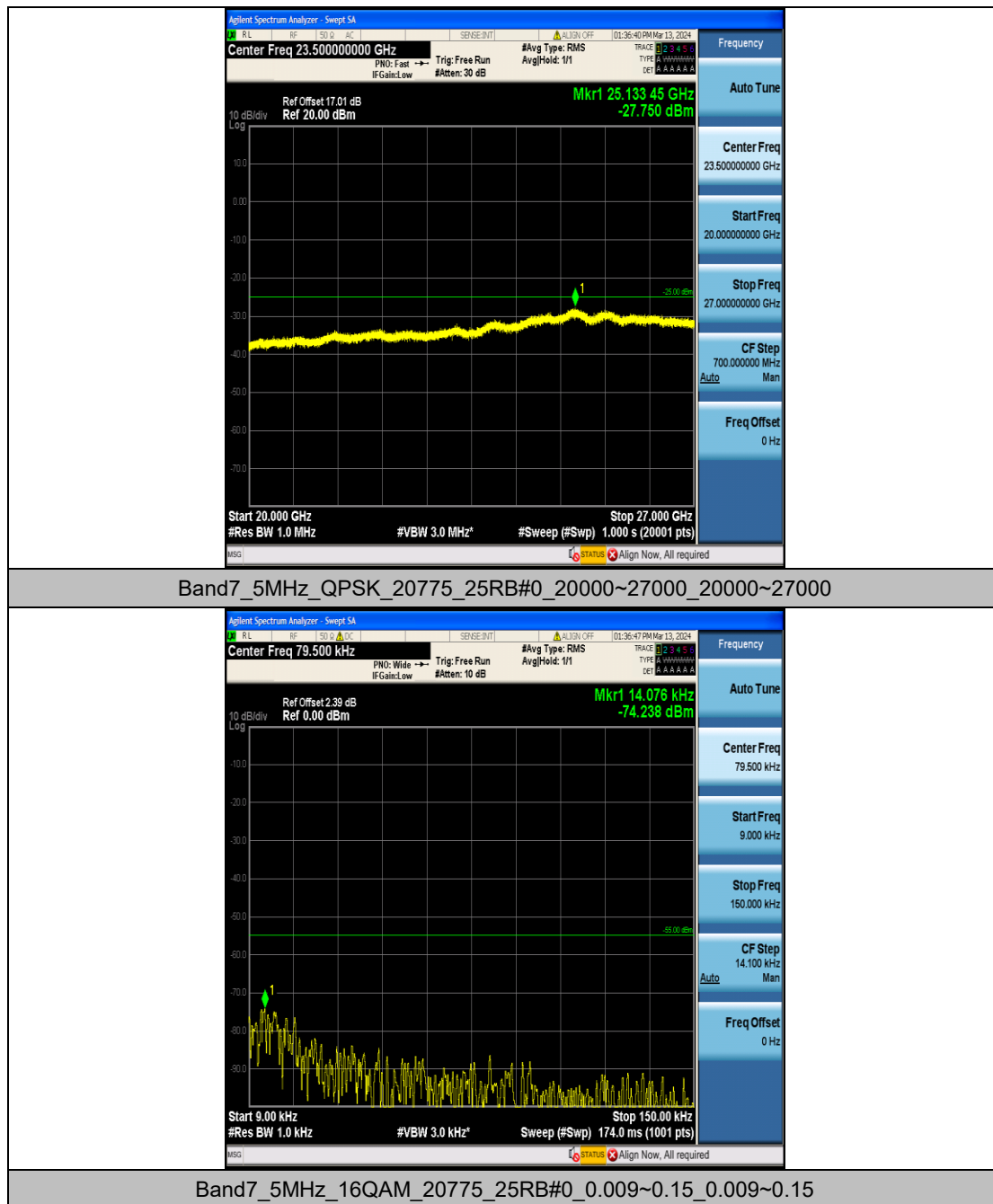
Band7	10MHz	16QAM	20800	50RB#0	0.15~30	-68.90	PASS
Band7	10MHz	16QAM	20800	50RB#0	30~1000	-64.59	PASS
Band7	10MHz	16QAM	20800	50RB#0	1000~20000	-33.95	PASS
Band7	10MHz	16QAM	20800	50RB#0	20000~27000	-27.90	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.009~0.15	-72.64	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.15~30	-70.17	PASS
Band7	10MHz	QPSK	21100	50RB#0	30~1000	-64.65	PASS
Band7	10MHz	QPSK	21100	50RB#0	1000~20000	-34.23	PASS
Band7	10MHz	QPSK	21100	50RB#0	20000~27000	-28.04	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.009~0.15	-73.31	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.15~30	-68.41	PASS
Band7	10MHz	16QAM	21100	50RB#0	30~1000	-64.42	PASS
Band7	10MHz	16QAM	21100	50RB#0	1000~20000	-34.44	PASS
Band7	10MHz	16QAM	21100	50RB#0	20000~27000	-27.89	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.009~0.15	-72.57	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.15~30	-70.38	PASS
Band7	10MHz	QPSK	21400	50RB#0	30~1000	-64.51	PASS
Band7	10MHz	QPSK	21400	50RB#0	1000~20000	-34.56	PASS
Band7	10MHz	QPSK	21400	50RB#0	20000~27000	-27.88	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.009~0.15	-71.97	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.15~30	-68.39	PASS
Band7	10MHz	16QAM	21400	50RB#0	30~1000	-64.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	1000~20000	-34.34	PASS
Band7	10MHz	16QAM	21400	50RB#0	20000~27000	-27.83	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.009~0.15	-75.58	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.15~30	-65.74	PASS
Band7	15MHz	QPSK	20825	75RB#0	30~1000	-64.22	PASS
Band7	15MHz	QPSK	20825	75RB#0	1000~20000	-34.25	PASS
Band7	15MHz	QPSK	20825	75RB#0	20000~27000	-27.68	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.009~0.15	-71.40	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.15~30	-70.48	PASS
Band7	15MHz	16QAM	20825	75RB#0	30~1000	-64.32	PASS
Band7	15MHz	16QAM	20825	75RB#0	1000~20000	-34.15	PASS
Band7	15MHz	16QAM	20825	75RB#0	20000~27000	-27.95	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.009~0.15	-69.55	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.15~30	-69.03	PASS
Band7	15MHz	QPSK	21100	75RB#0	30~1000	-64.10	PASS
Band7	15MHz	QPSK	21100	75RB#0	1000~20000	-34.24	PASS
Band7	15MHz	QPSK	21100	75RB#0	20000~27000	-27.98	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.009~0.15	-75.50	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.15~30	-70.29	PASS
Band7	15MHz	16QAM	21100	75RB#0	30~1000	-64.02	PASS
Band7	15MHz	16QAM	21100	75RB#0	1000~20000	-34.48	PASS

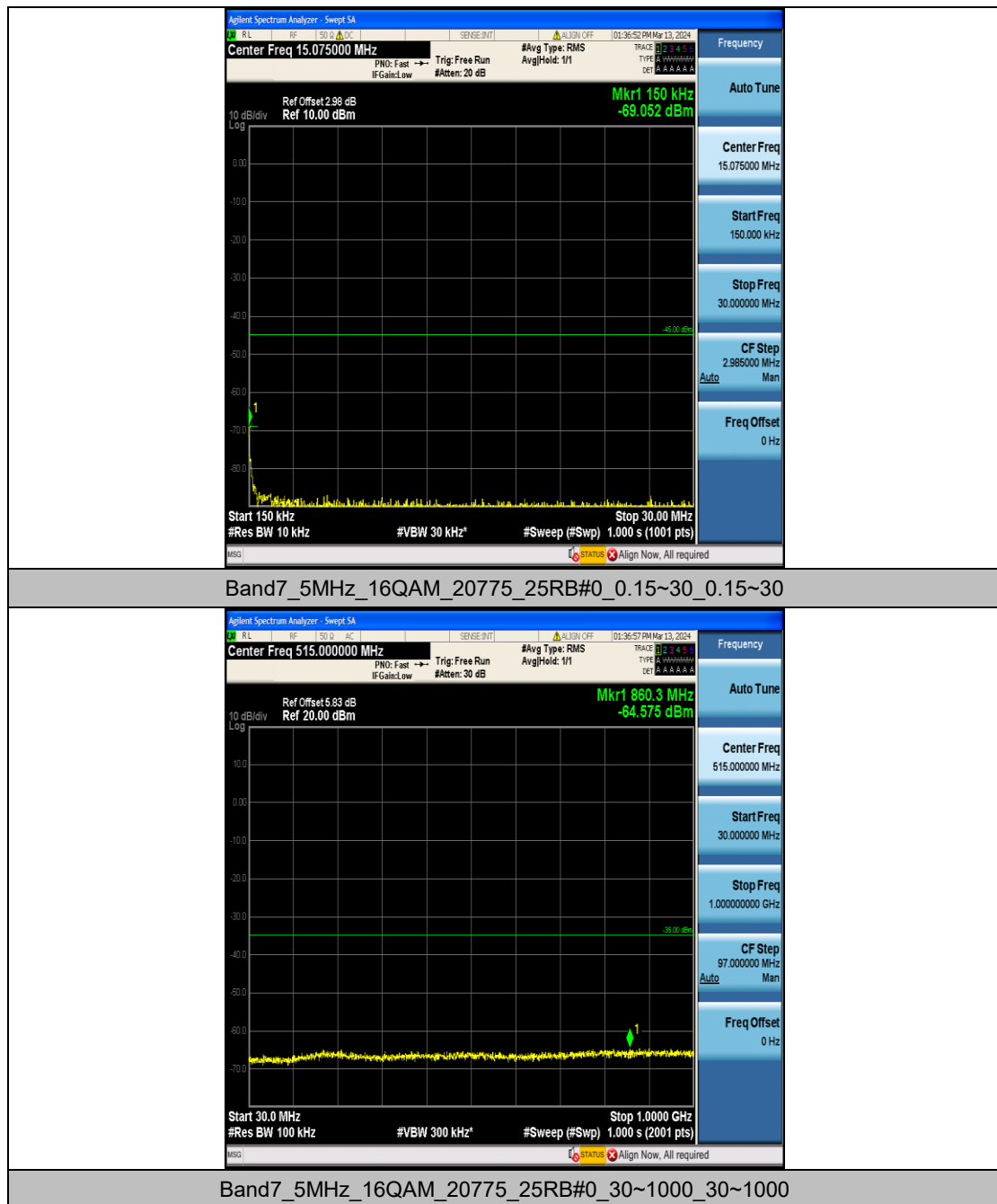
Band7	15MHz	16QAM	21100	75RB#0	20000~27000	-28.06	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.009~0.15	-70.31	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.15~30	-69.14	PASS
Band7	15MHz	QPSK	21375	75RB#0	30~1000	-64.46	PASS
Band7	15MHz	QPSK	21375	75RB#0	1000~20000	-34.46	PASS
Band7	15MHz	QPSK	21375	75RB#0	20000~27000	-27.98	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.009~0.15	-70.53	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.15~30	-68.83	PASS
Band7	15MHz	16QAM	21375	75RB#0	30~1000	-64.23	PASS
Band7	15MHz	16QAM	21375	75RB#0	1000~20000	-34.52	PASS
Band7	15MHz	16QAM	21375	75RB#0	20000~27000	-27.67	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.009~0.15	-74.47	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.15~30	-69.24	PASS
Band7	20MHz	QPSK	20850	100RB#0	30~1000	-64.53	PASS
Band7	20MHz	QPSK	20850	100RB#0	1000~20000	-33.66	PASS
Band7	20MHz	QPSK	20850	100RB#0	20000~27000	-28.05	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.009~0.15	-73.10	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.15~30	-69.78	PASS
Band7	20MHz	16QAM	20850	100RB#0	30~1000	-64.51	PASS
Band7	20MHz	16QAM	20850	100RB#0	1000~20000	-34.10	PASS
Band7	20MHz	16QAM	20850	100RB#0	20000~27000	-28.03	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.009~0.15	-76.43	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.15~30	-71.67	PASS
Band7	20MHz	QPSK	21100	100RB#0	30~1000	-63.97	PASS
Band7	20MHz	QPSK	21100	100RB#0	1000~20000	-34.53	PASS
Band7	20MHz	QPSK	21100	100RB#0	20000~27000	-27.91	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.009~0.15	-72.58	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.15~30	-69.77	PASS
Band7	20MHz	16QAM	21100	100RB#0	30~1000	-64.29	PASS
Band7	20MHz	16QAM	21100	100RB#0	1000~20000	-34.12	PASS
Band7	20MHz	16QAM	21100	100RB#0	20000~27000	-27.90	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.009~0.15	-75.11	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.15~30	-68.61	PASS
Band7	20MHz	QPSK	21350	100RB#0	30~1000	-64.15	PASS
Band7	20MHz	QPSK	21350	100RB#0	1000~20000	-34.15	PASS
Band7	20MHz	QPSK	21350	100RB#0	20000~27000	-28.08	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.009~0.15	-73.29	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.15~30	-69.44	PASS
Band7	20MHz	16QAM	21350	100RB#0	30~1000	-64.55	PASS
Band7	20MHz	16QAM	21350	100RB#0	1000~20000	-34.45	PASS
Band7	20MHz	16QAM	21350	100RB#0	20000~27000	-27.91	PASS

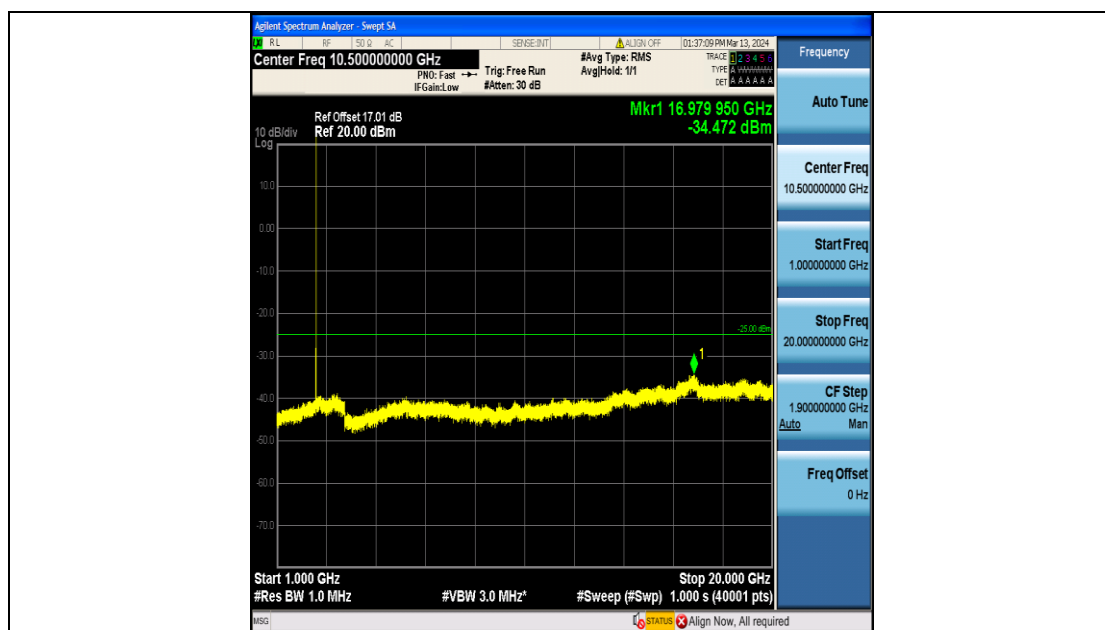
Test Graphs



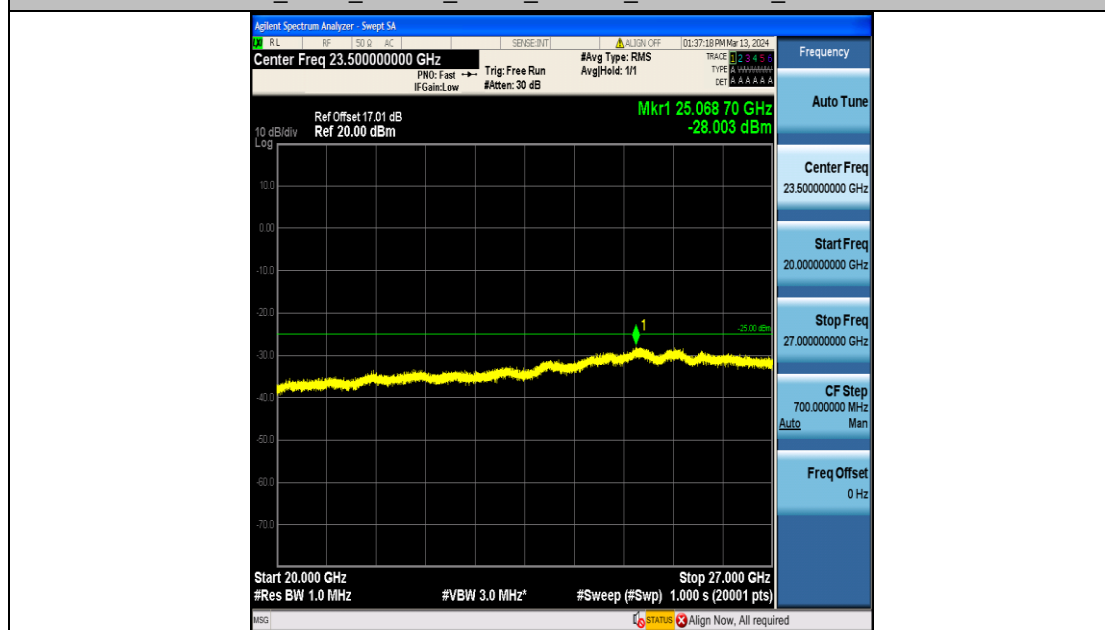




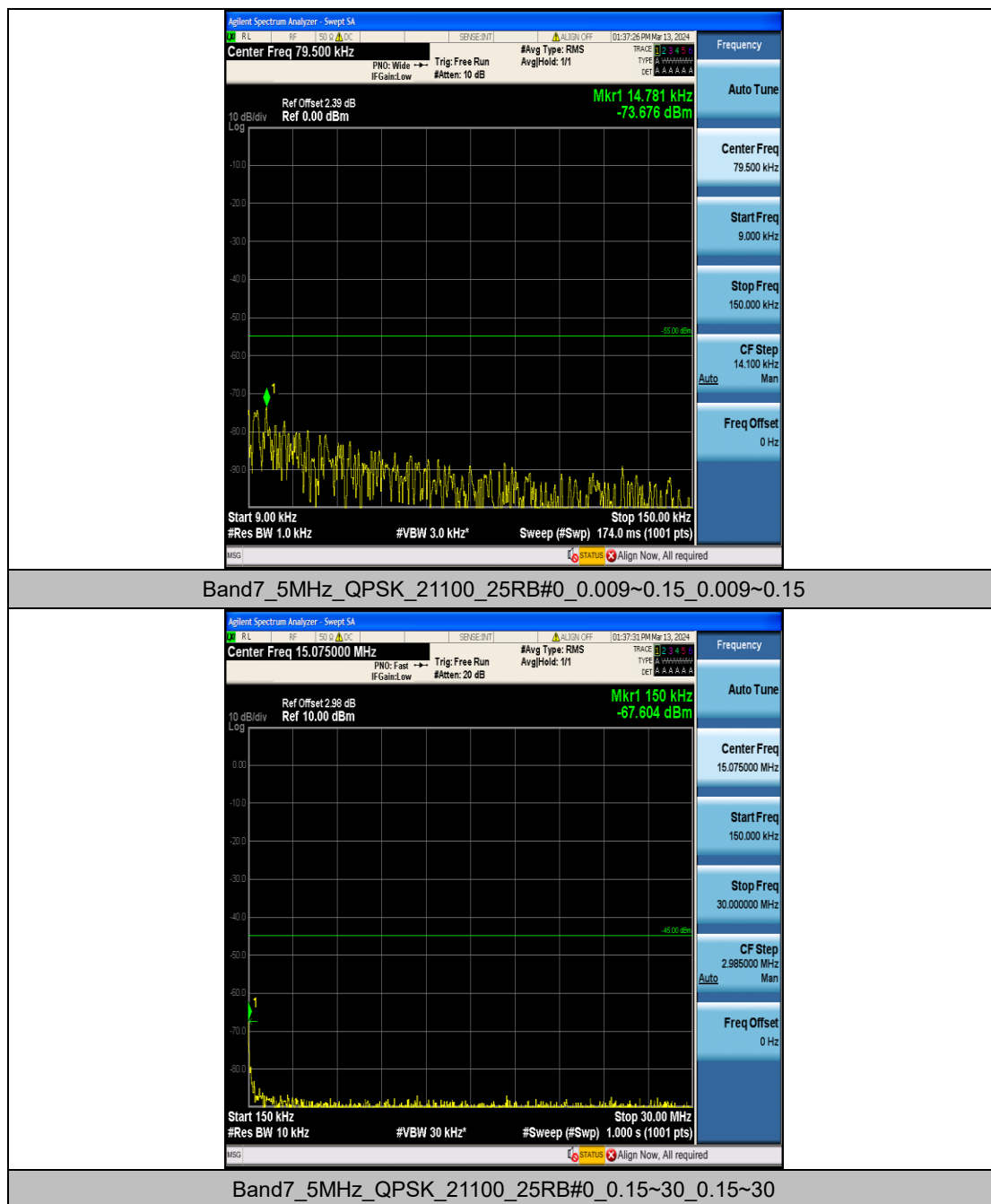


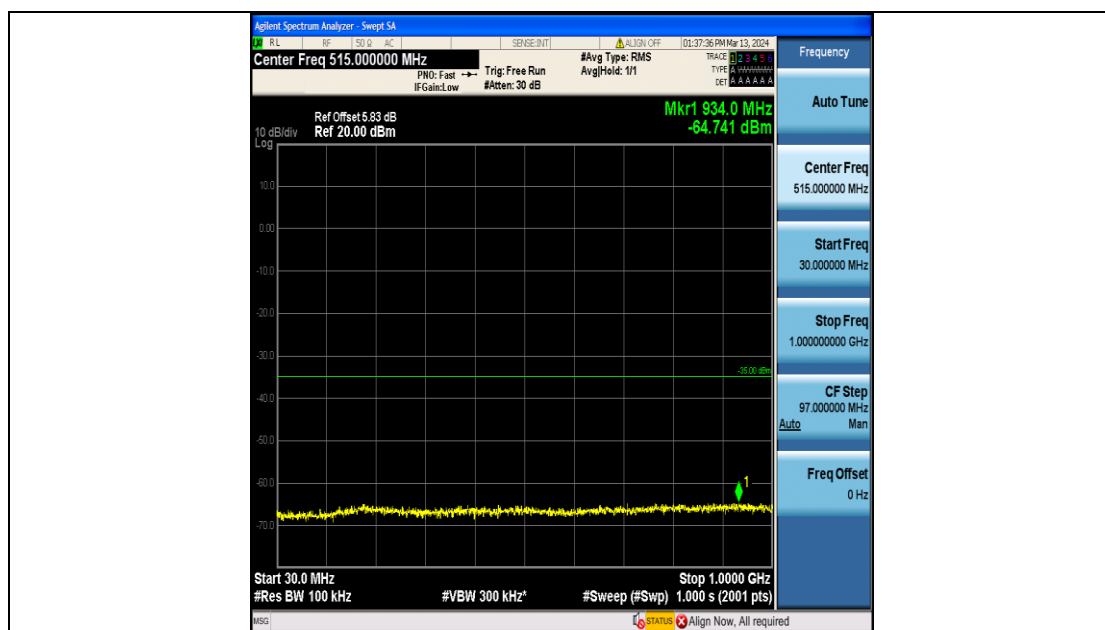


Band7_5MHz_16QAM_20775_25RB#0_1000~20000_1000~20000

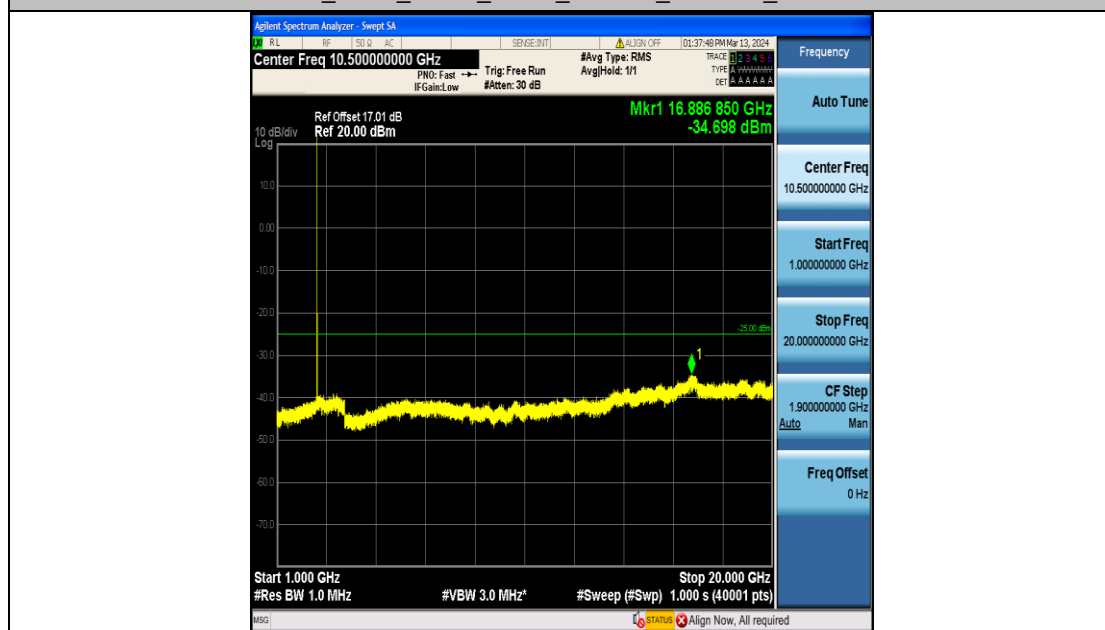


Band7_5MHz_16QAM_20775_25RB#0_20000~27000_20000~27000





Band7_5MHz_QPSK_21100_25RB#0_30~1000_30~1000



Band7_5MHz_QPSK_21100_25RB#0_1000~20000_1000~20000