



FCC Appendix RF Test Data for Band 7

Product Name: Smart Phone

Test Model: Philips S8310

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 Peak-to-Average Ratio(CCDF)

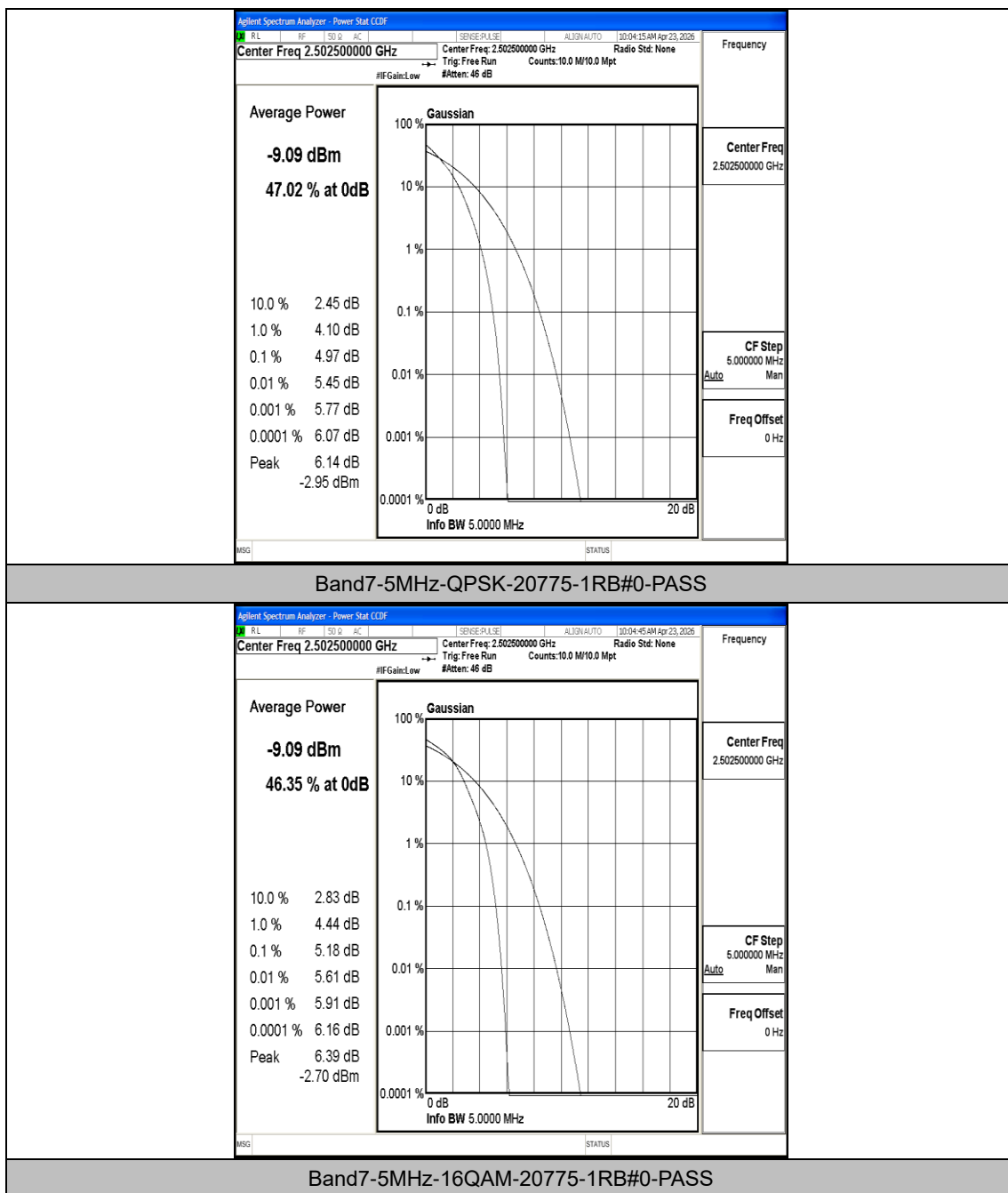
Test Result

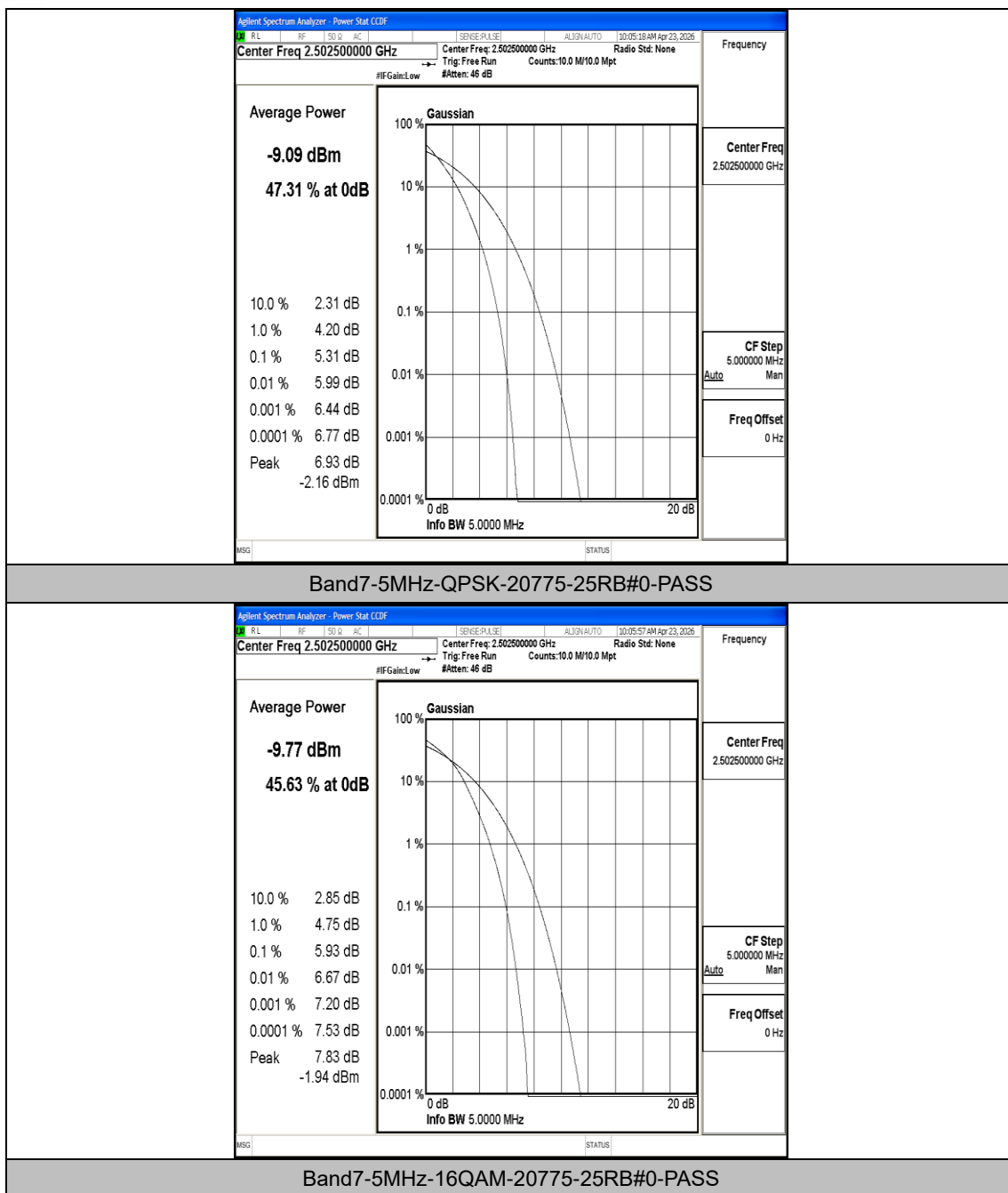
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.97	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.18	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.31	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.93	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.42	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.94	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.24	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.92	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.44	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	4.97	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.15	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.81	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	5.03	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.34	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.46	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.12	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.61	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.91	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.35	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.08	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.95	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.23	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.32	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.12	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	5.19	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.49	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.90	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.45	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.94	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.25	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.73	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.28	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	5.19	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.65	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.85	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.35	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	5.19	13	PASS

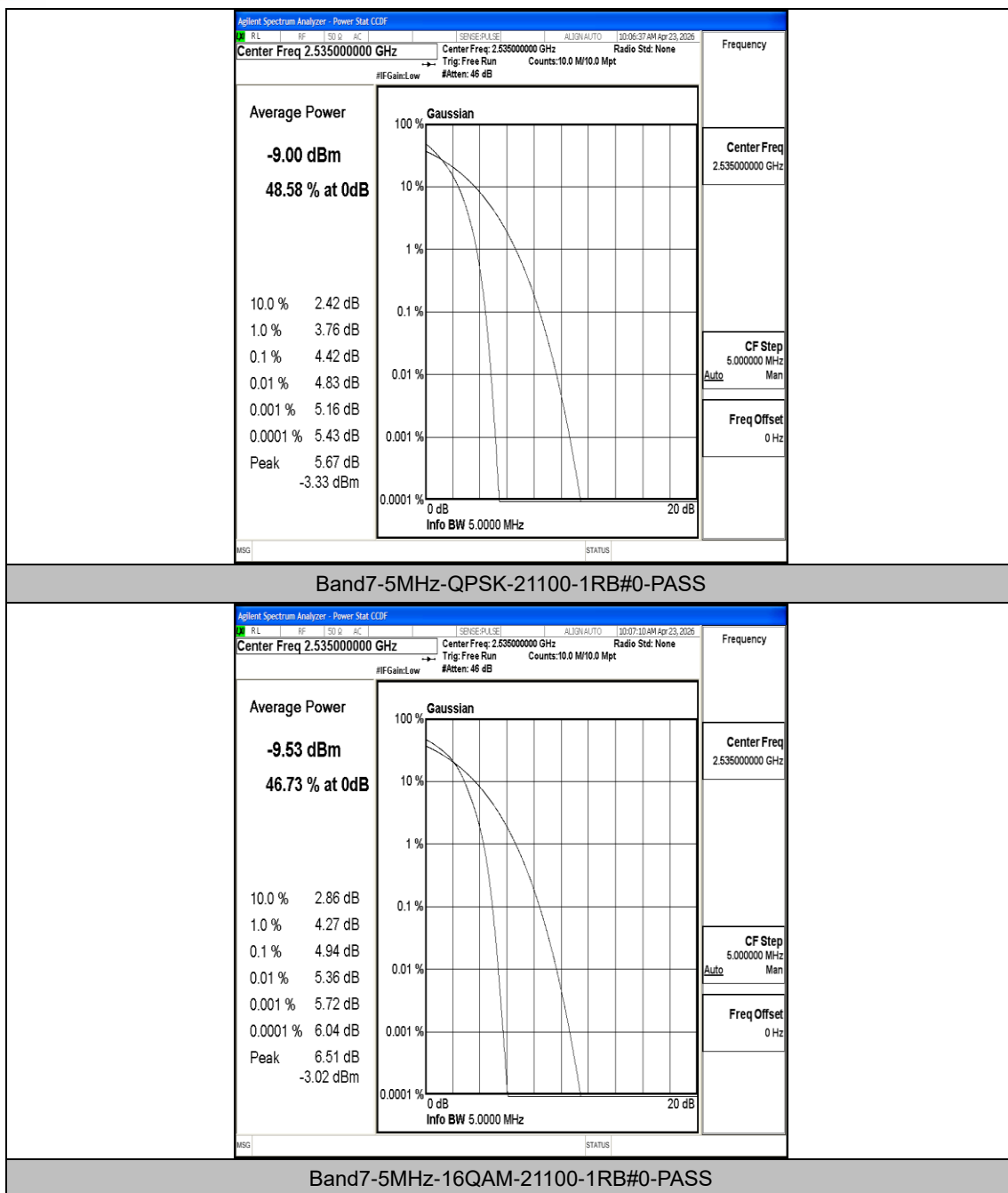


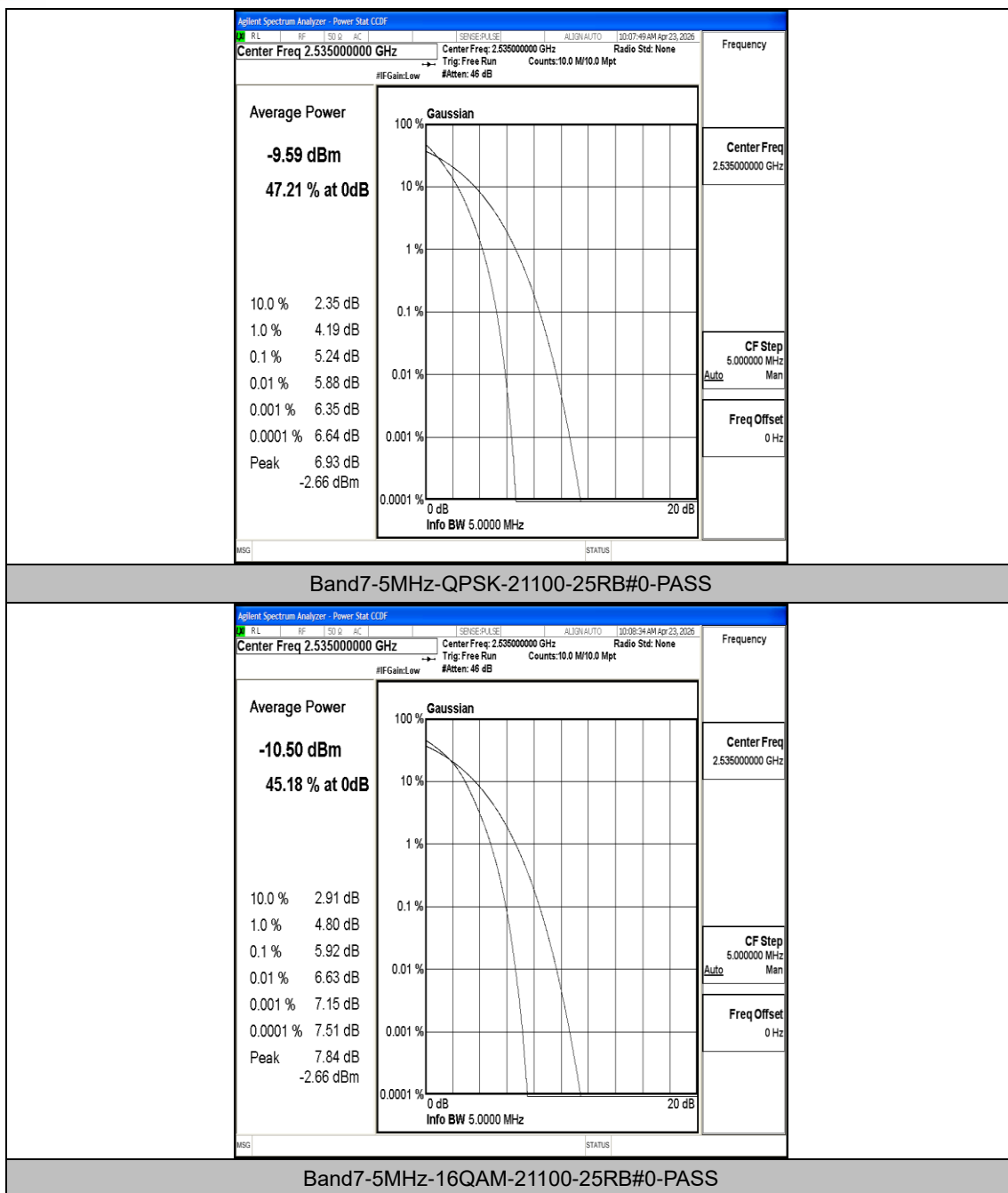
Band7	20MHz	16QAM	20850	1RB#0	5.52	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.81	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.46	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.94	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.55	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.62	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.27	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	5.17	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.81	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.80	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.38	13	PASS

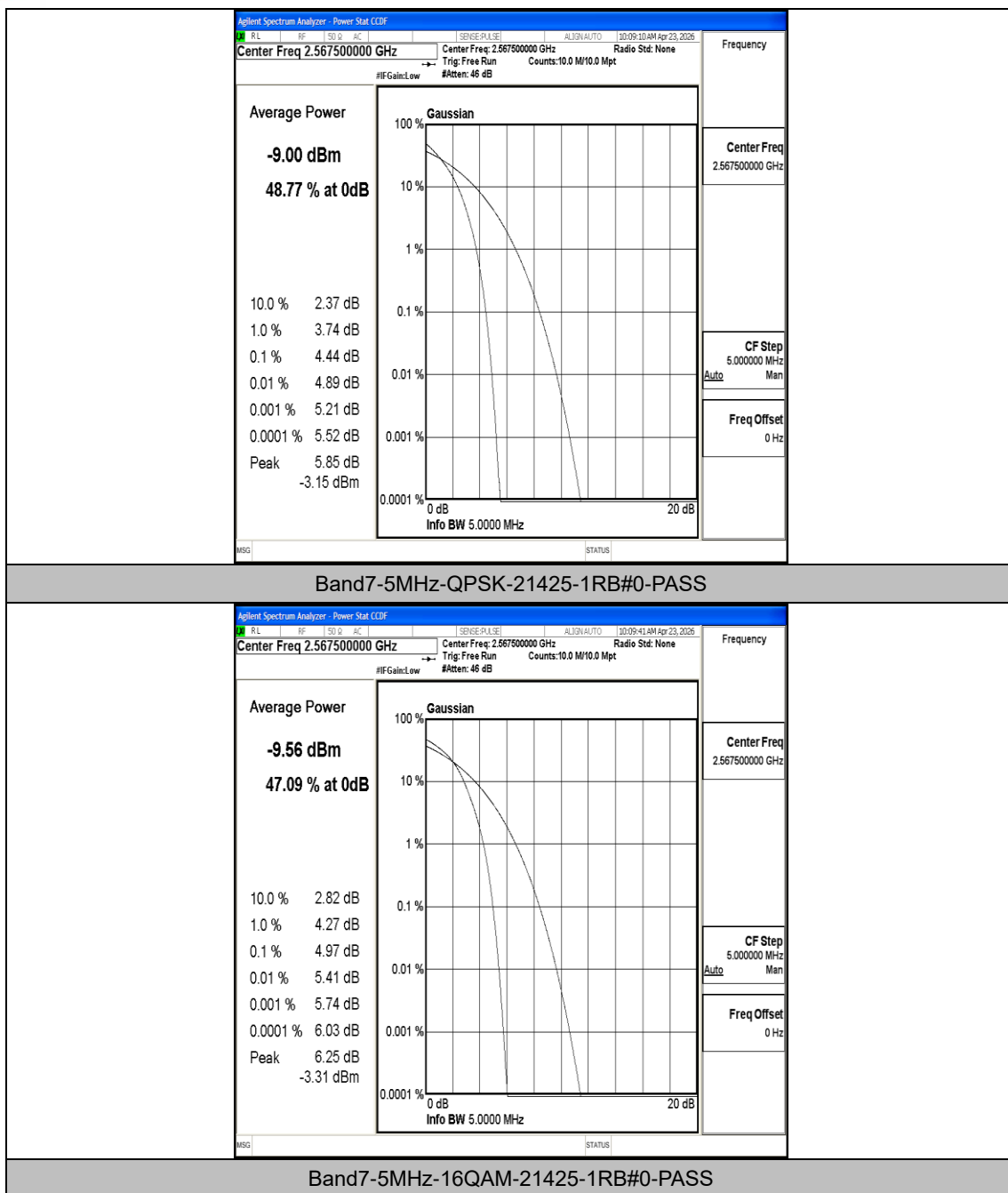
Test Graphs

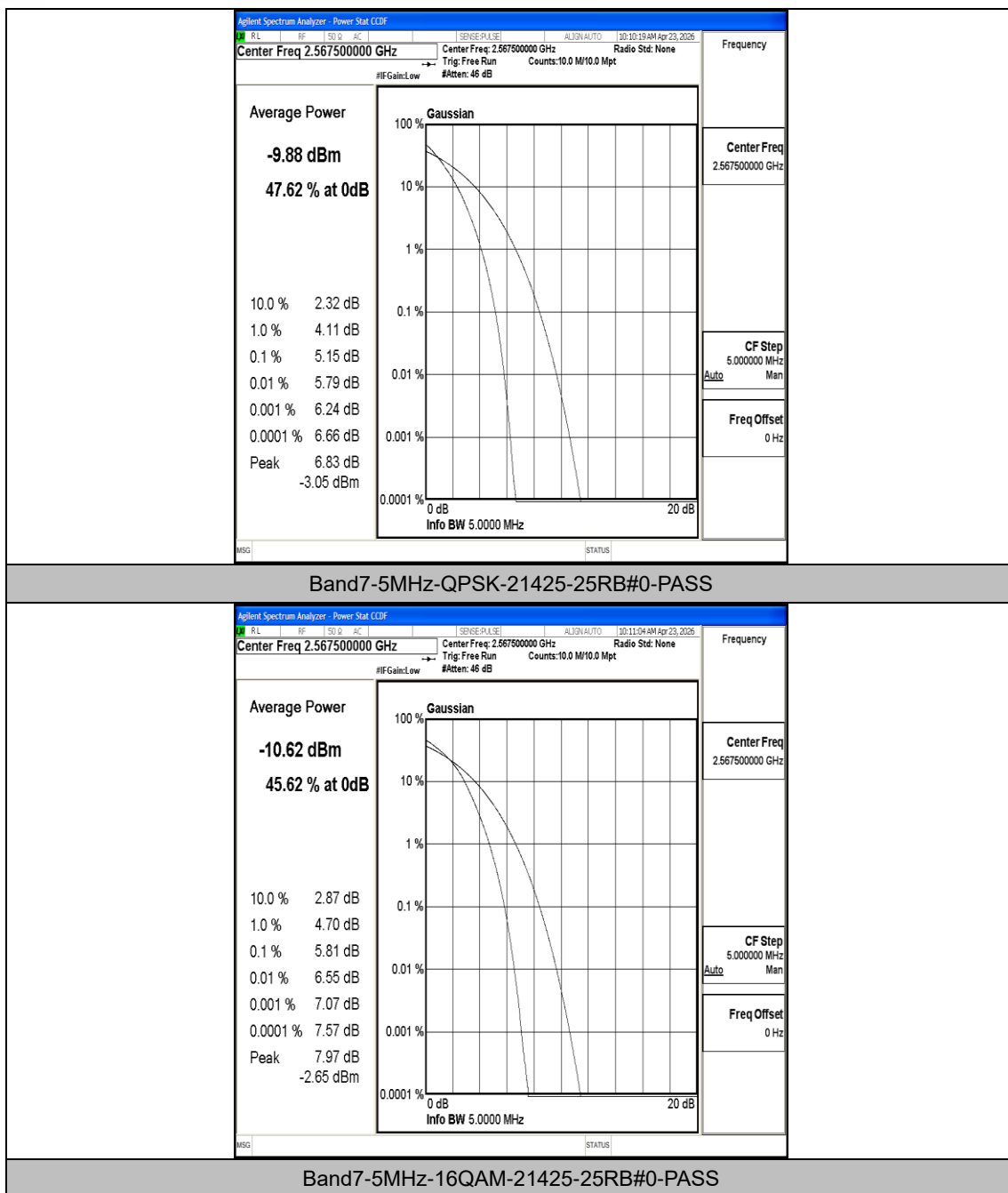


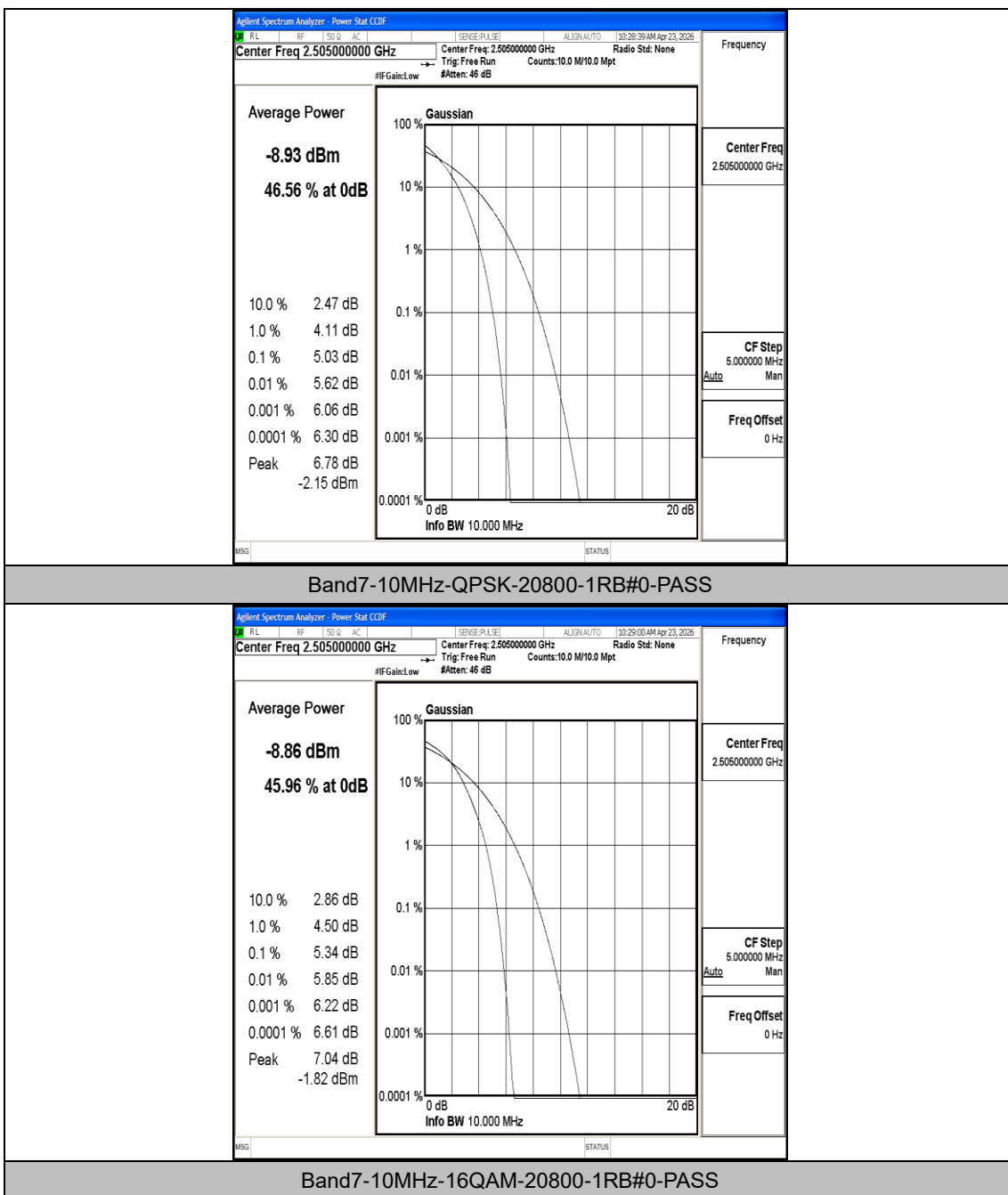


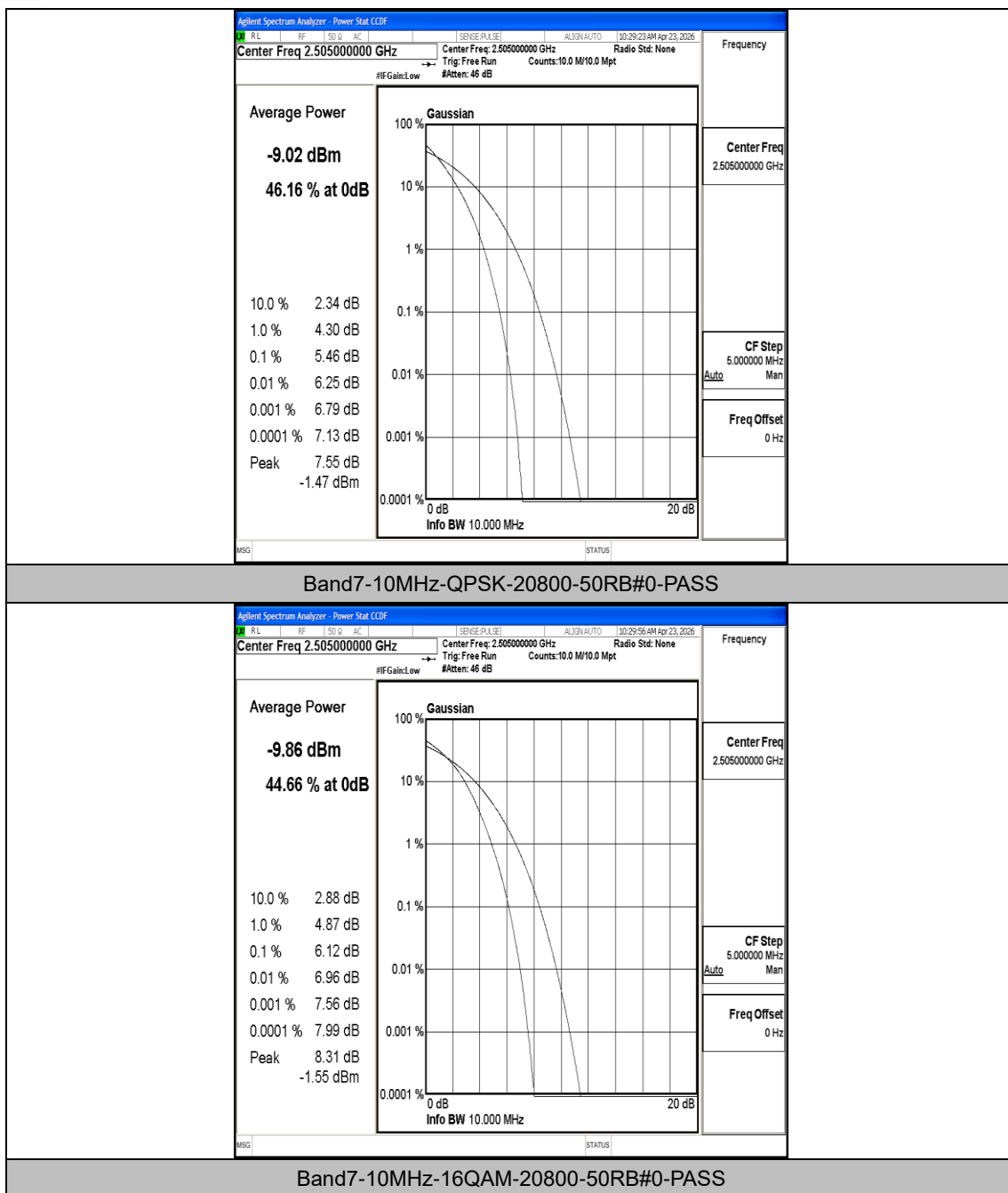


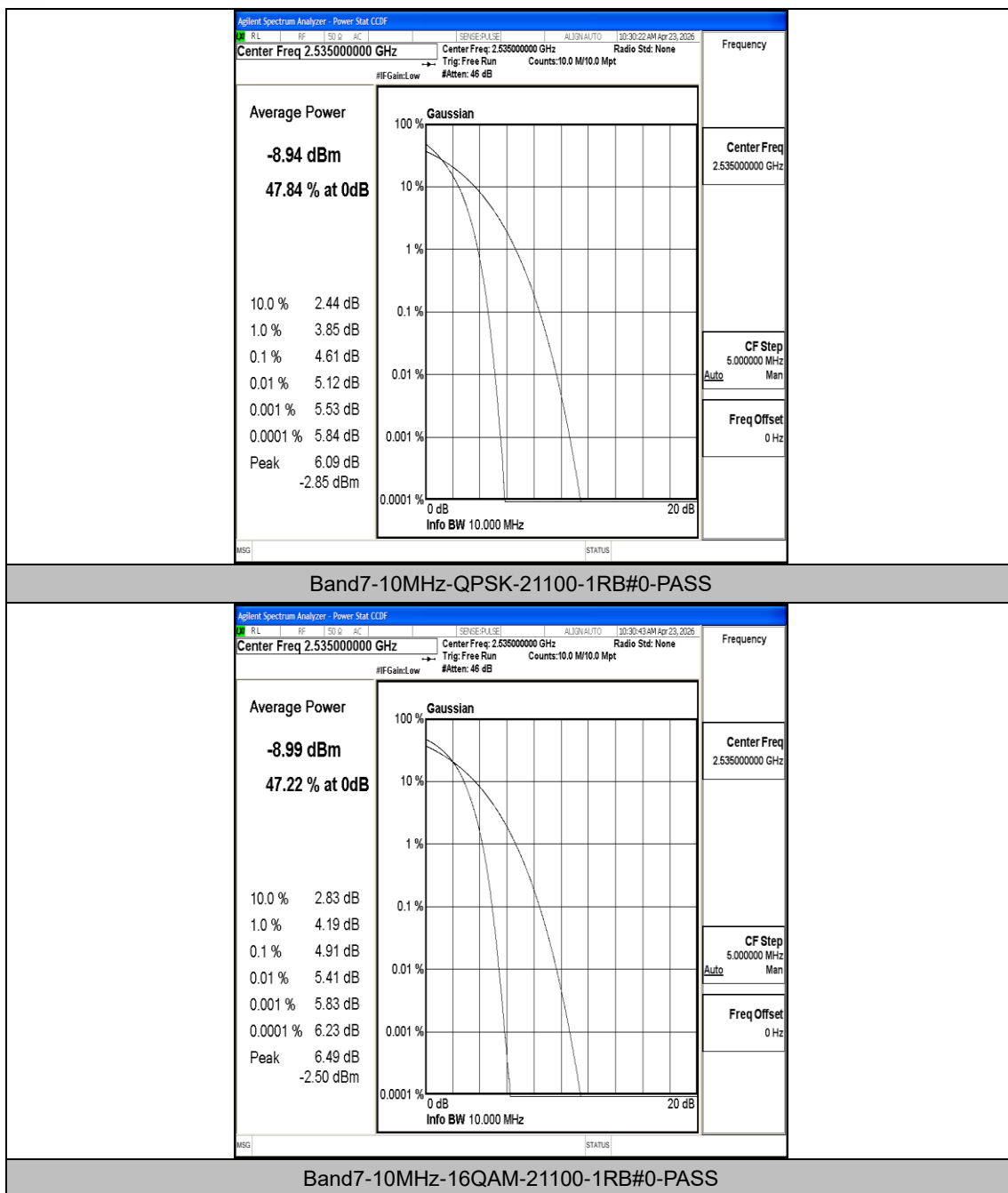


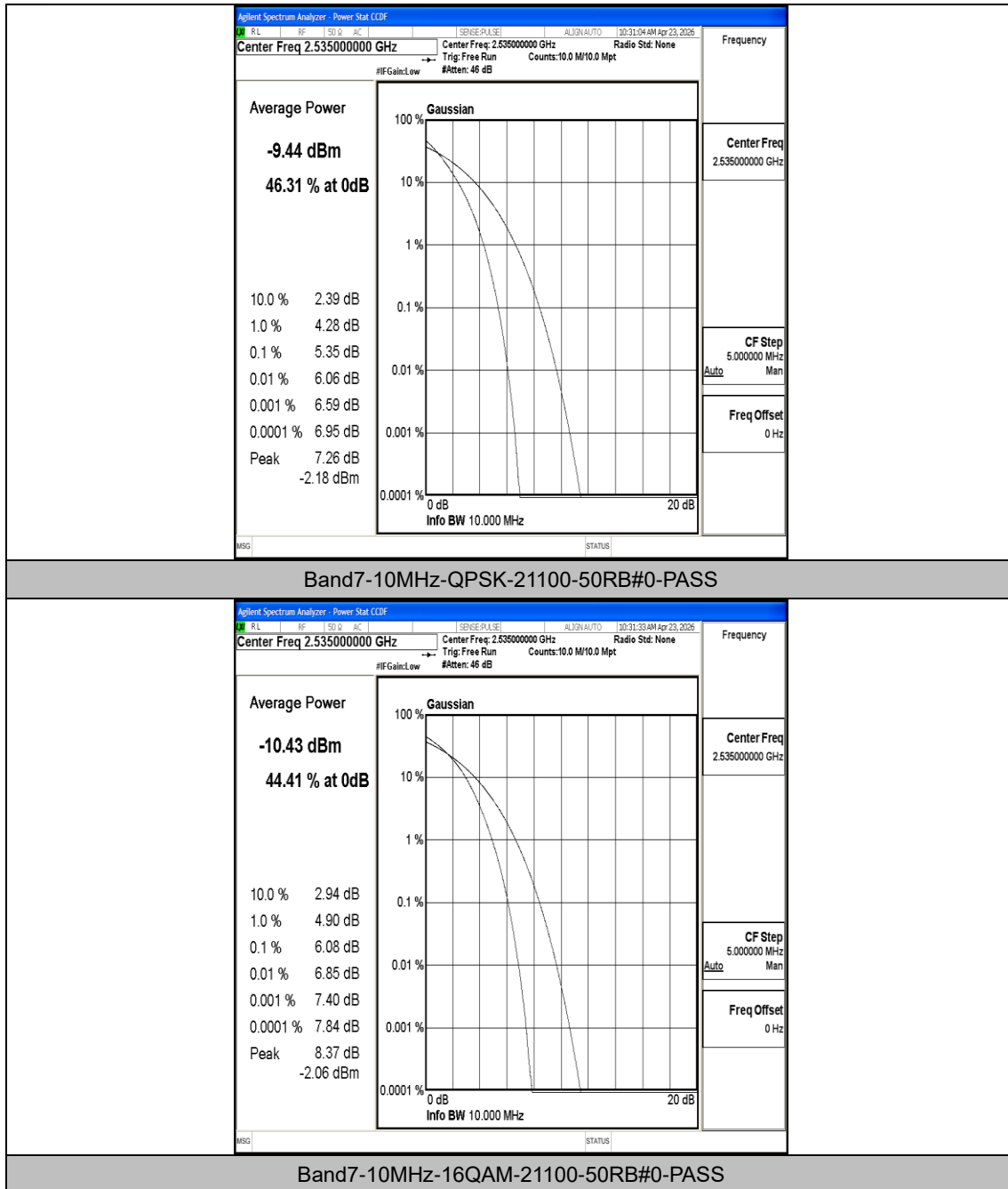


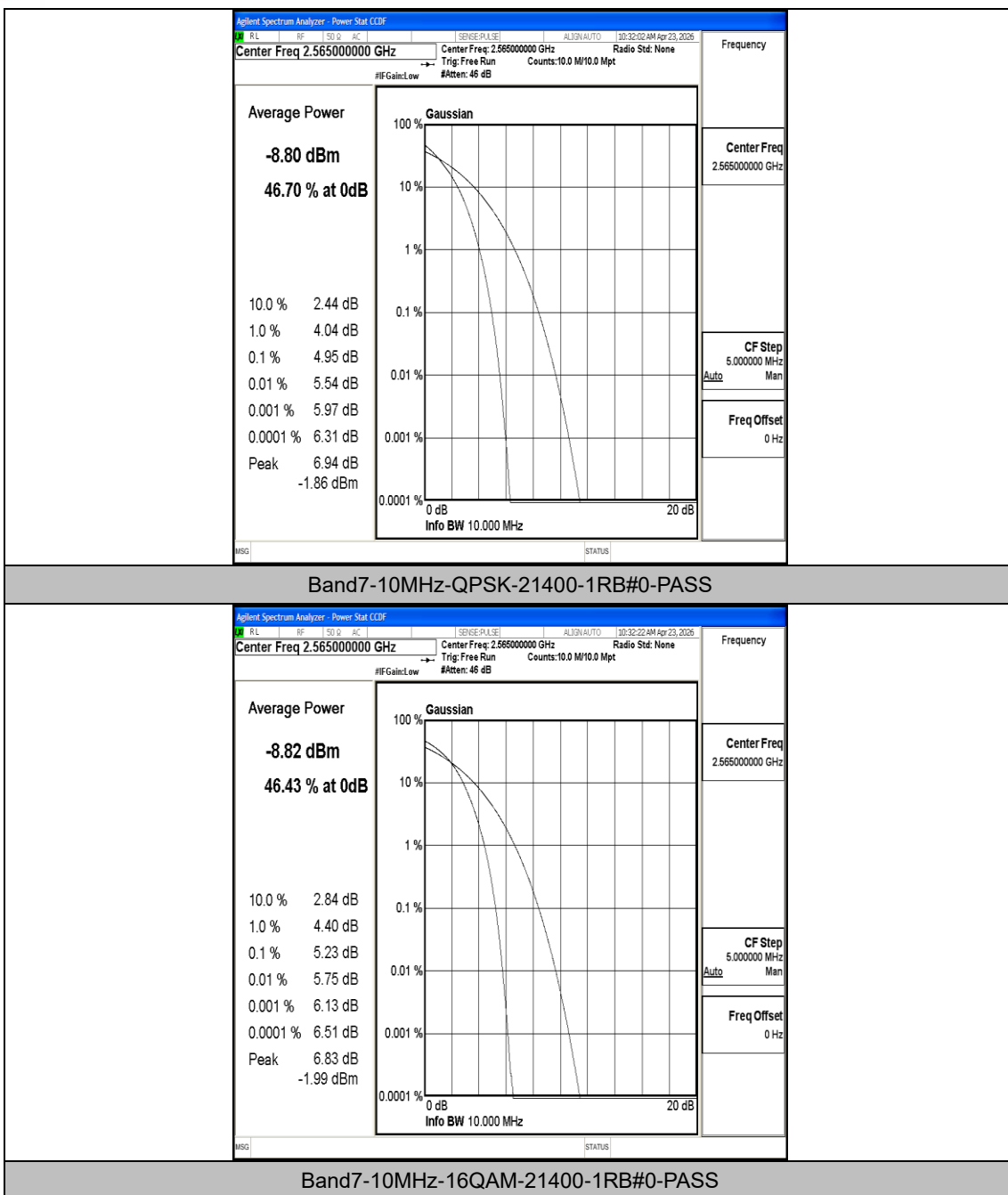


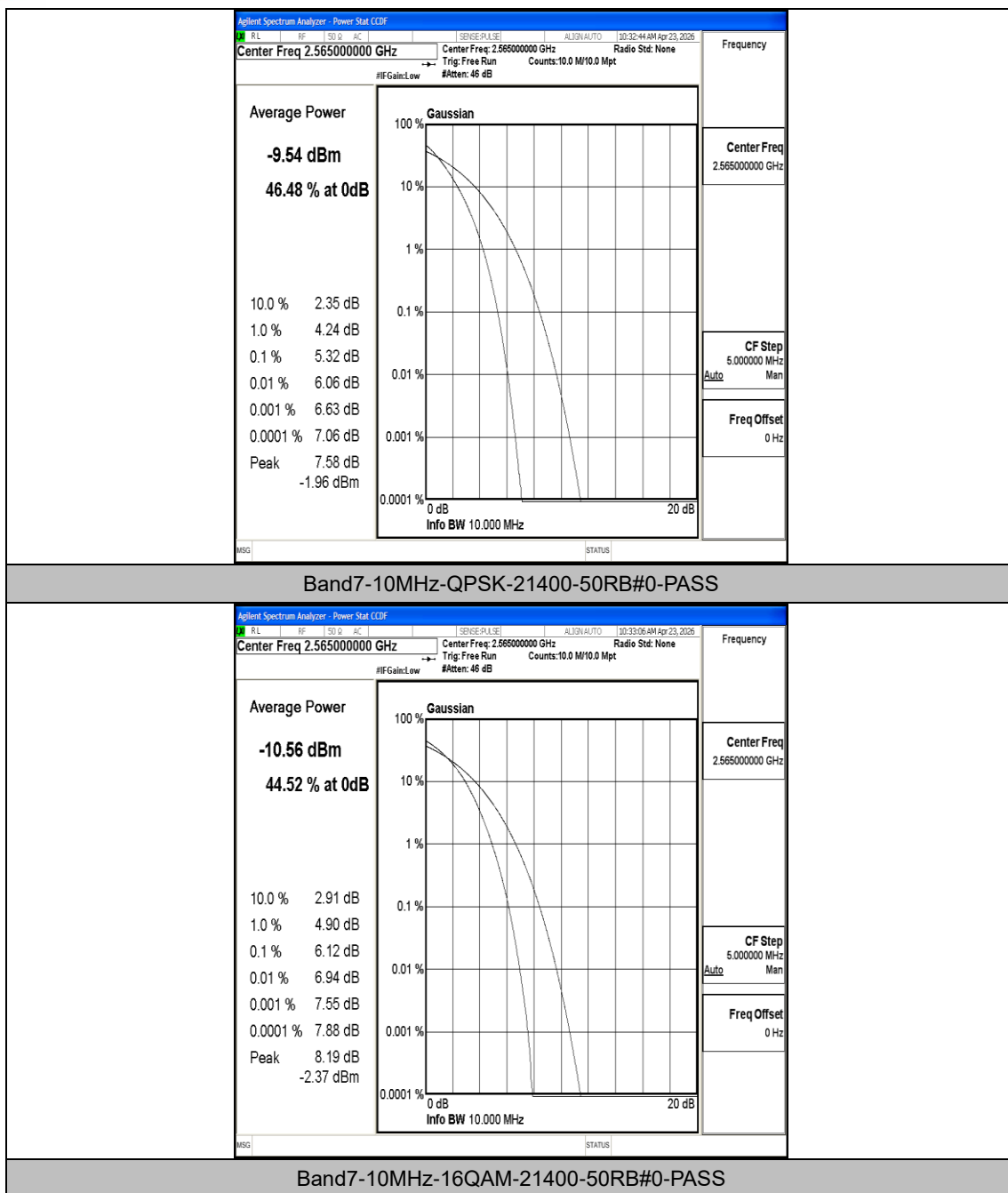


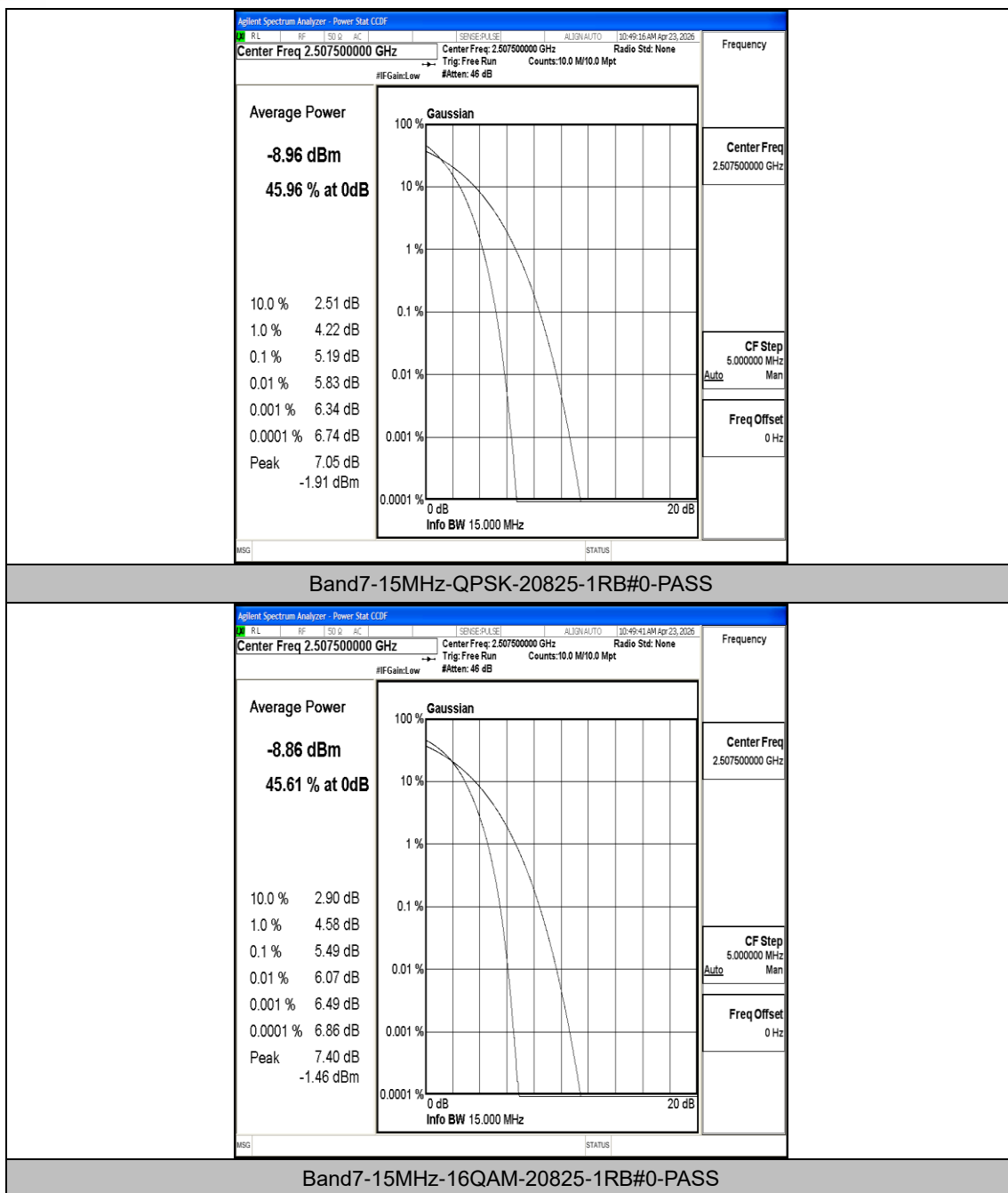


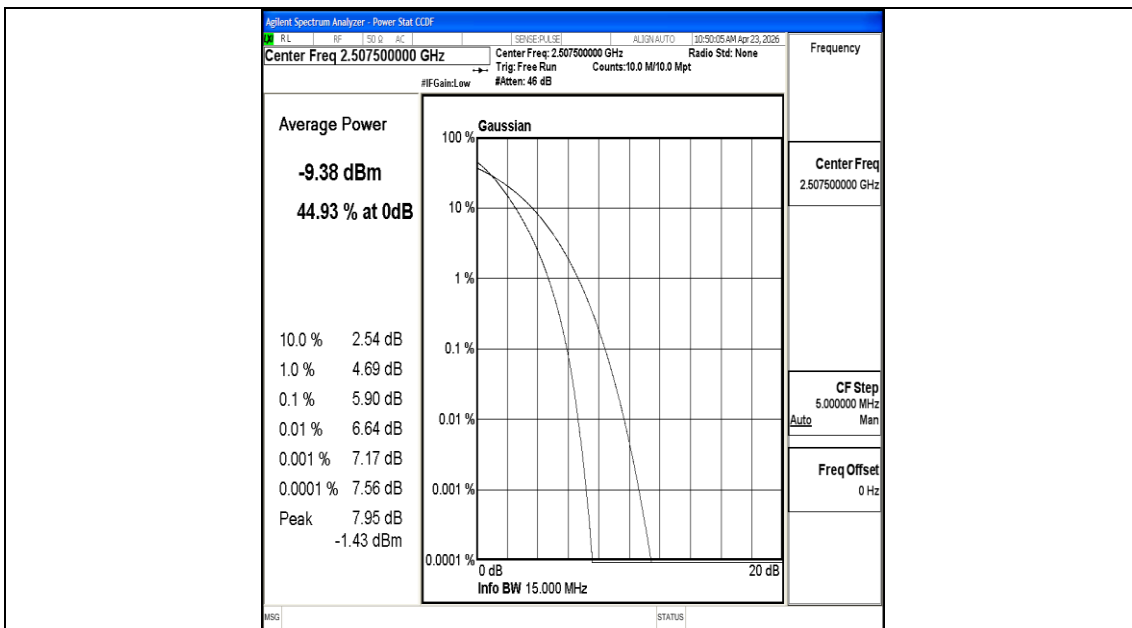




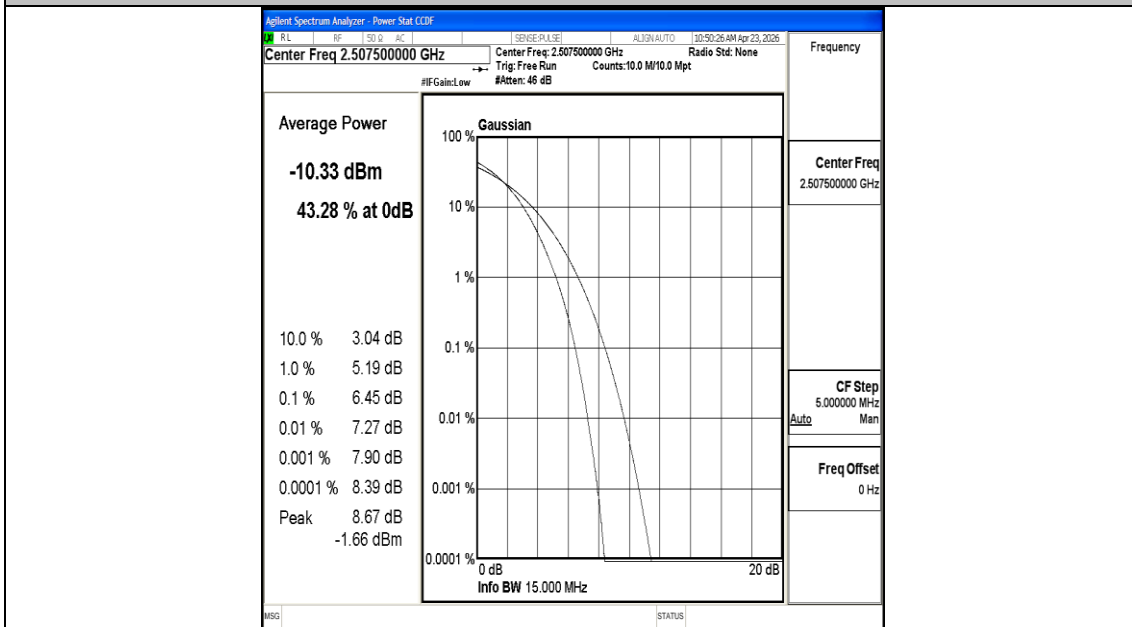




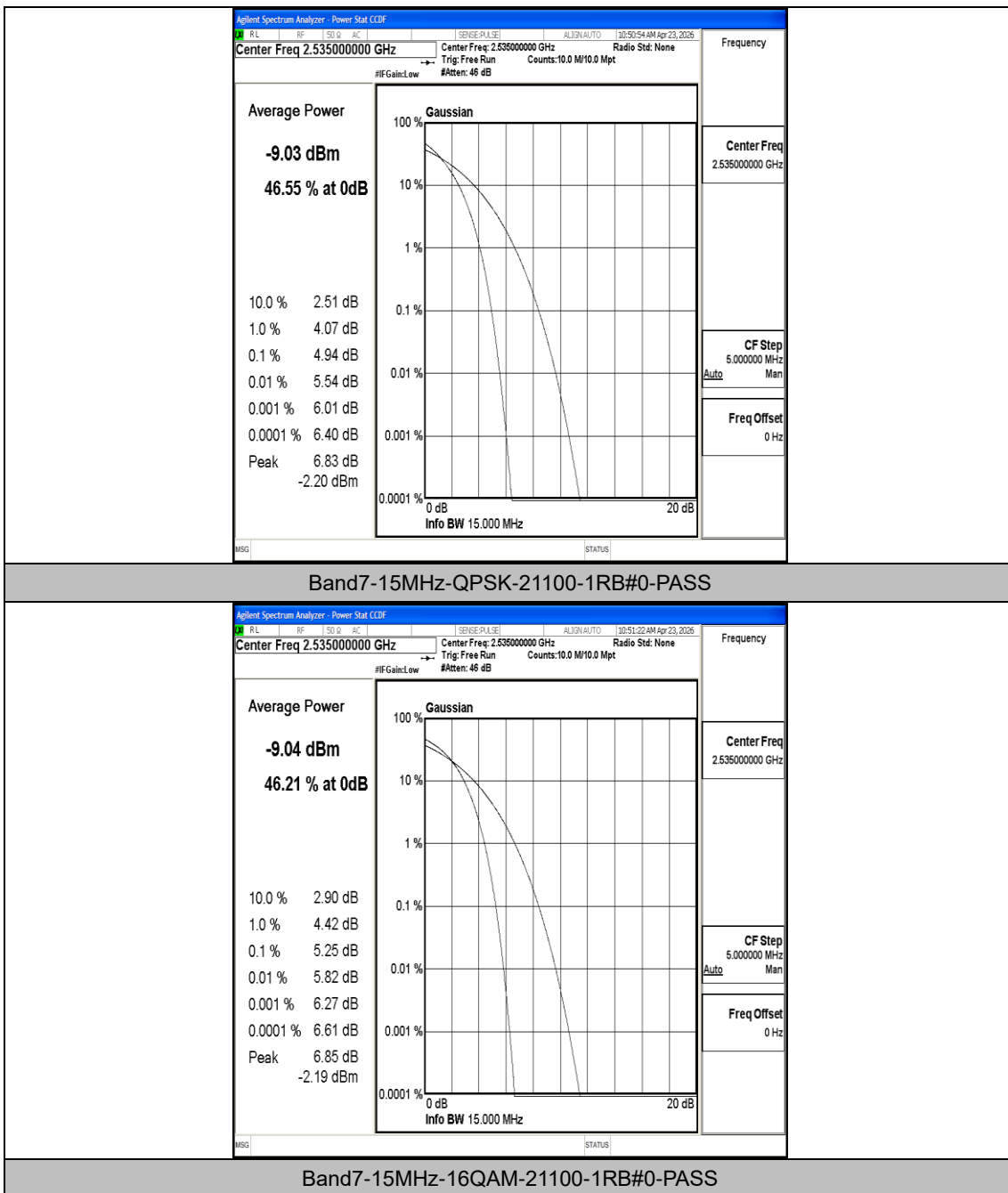


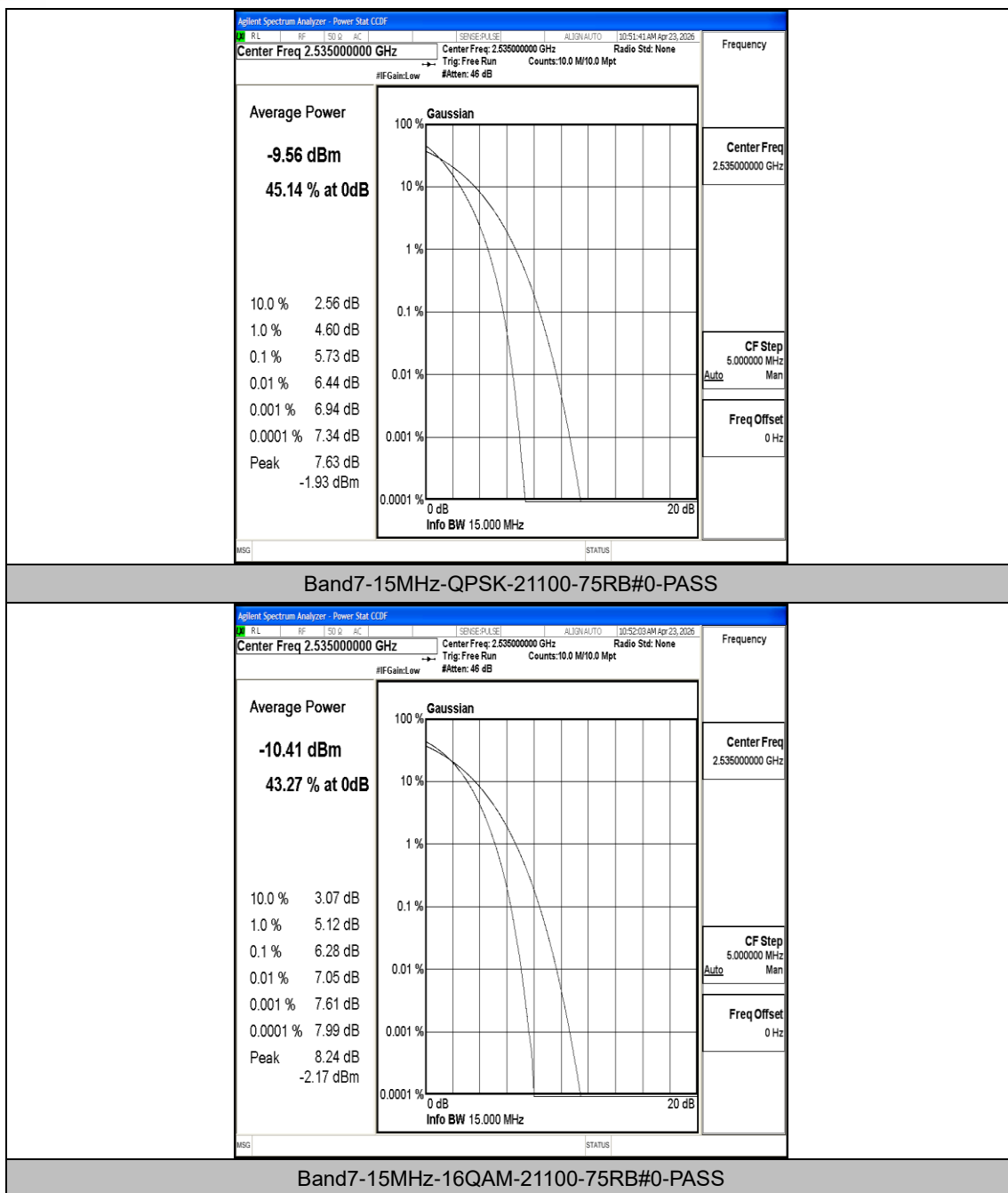


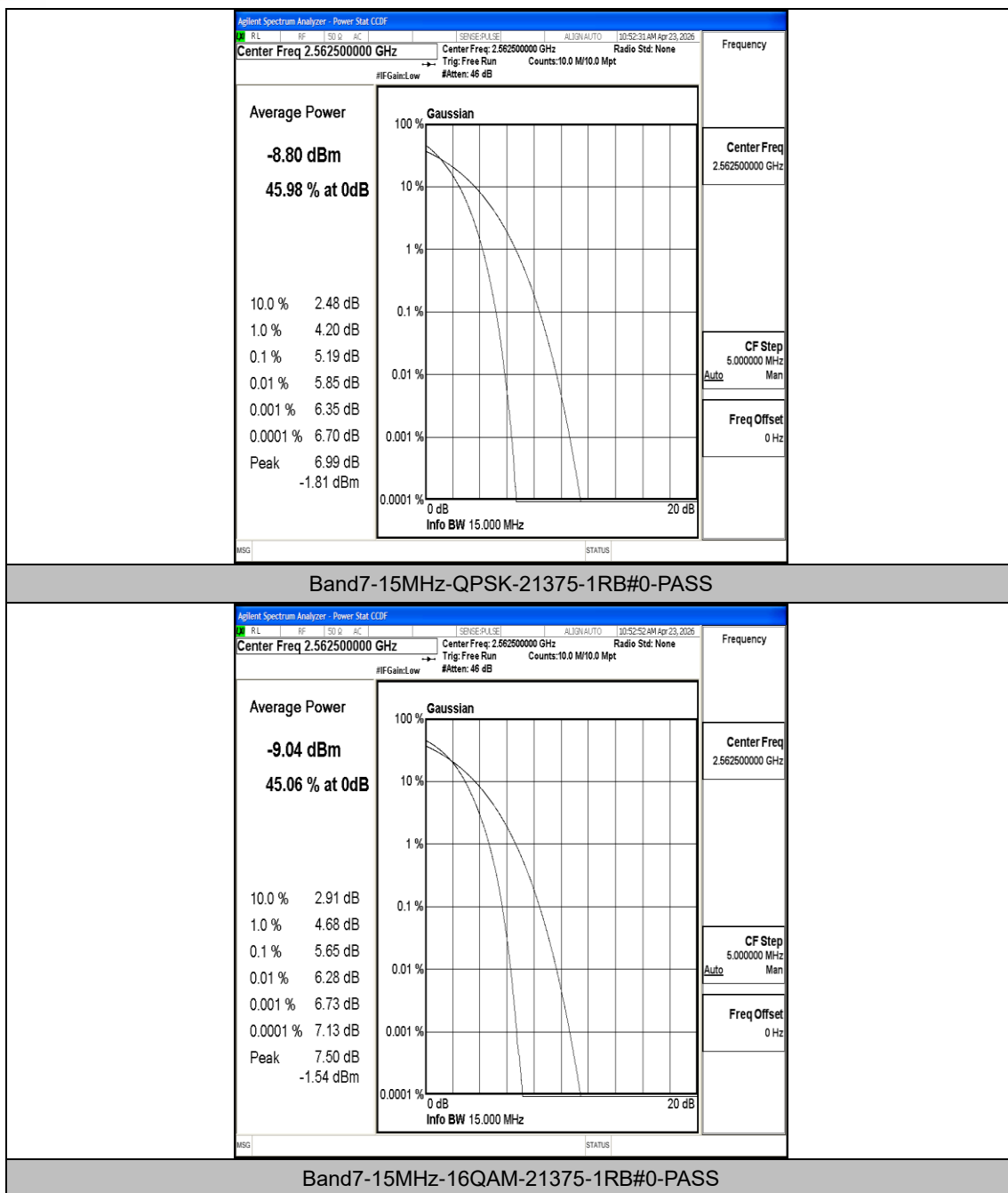
Band7-15MHz-QPSK-20825-75RB#0-PASS

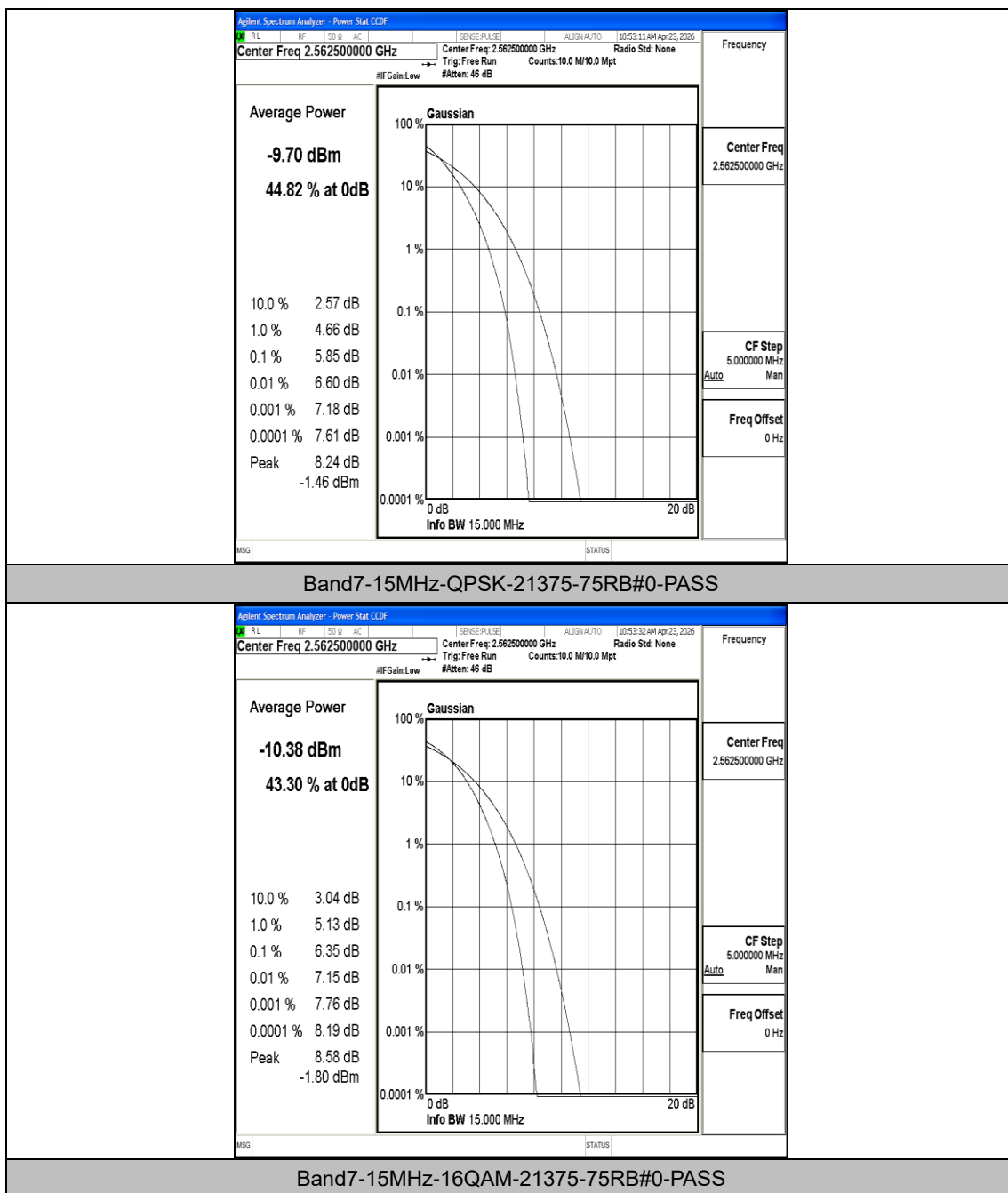


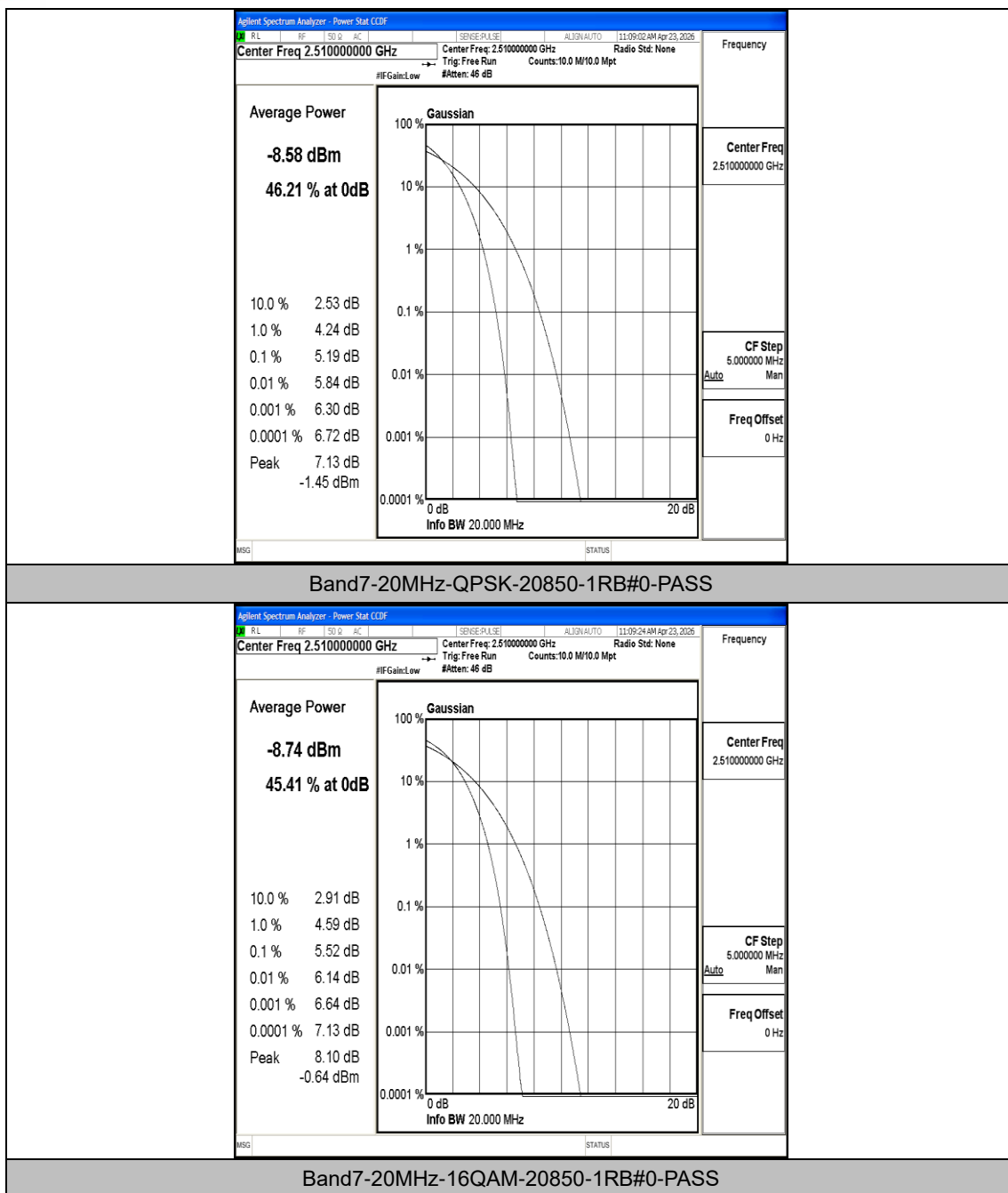
Band7-15MHz-16QAM-20825-75RB#0-PASS

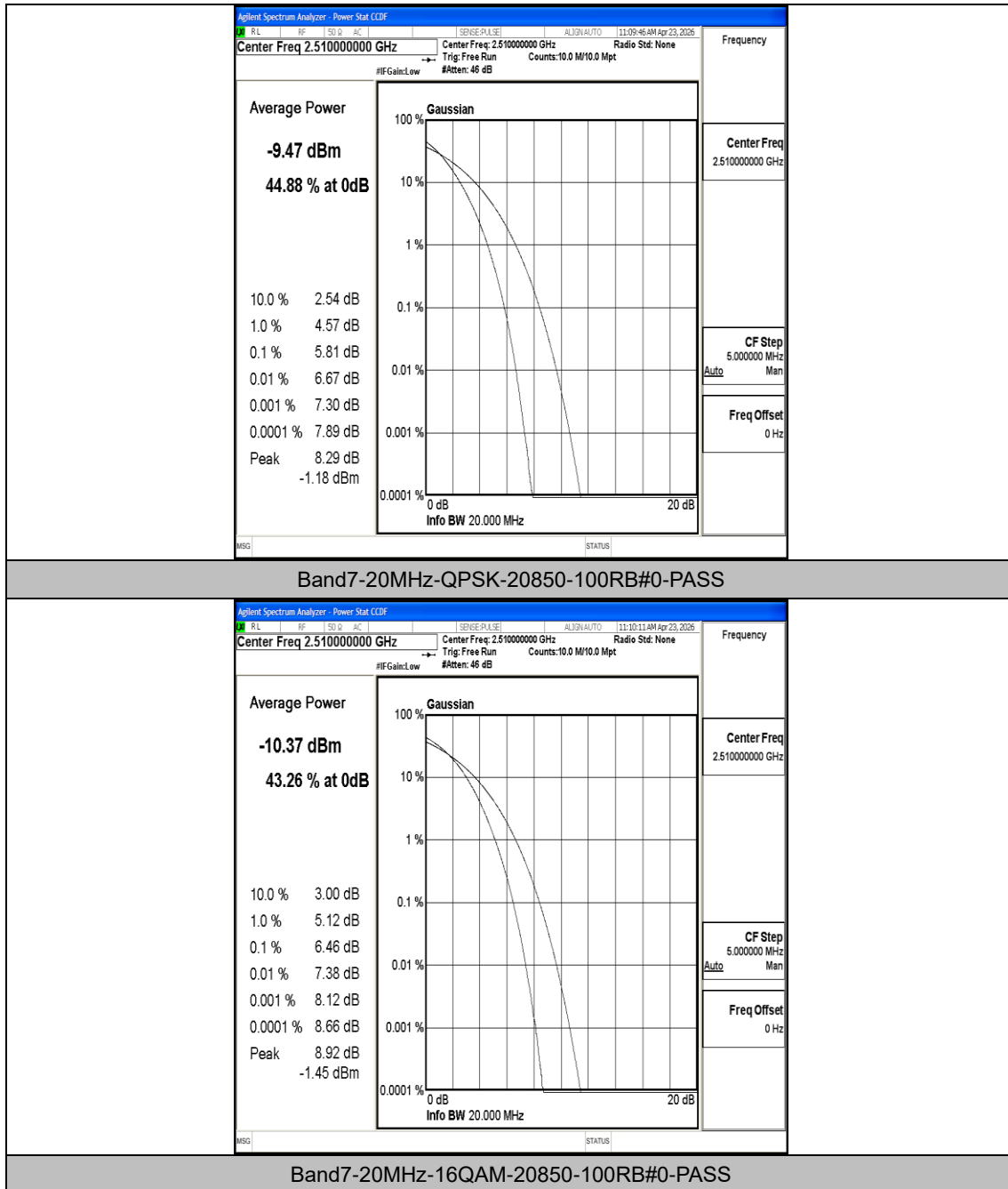


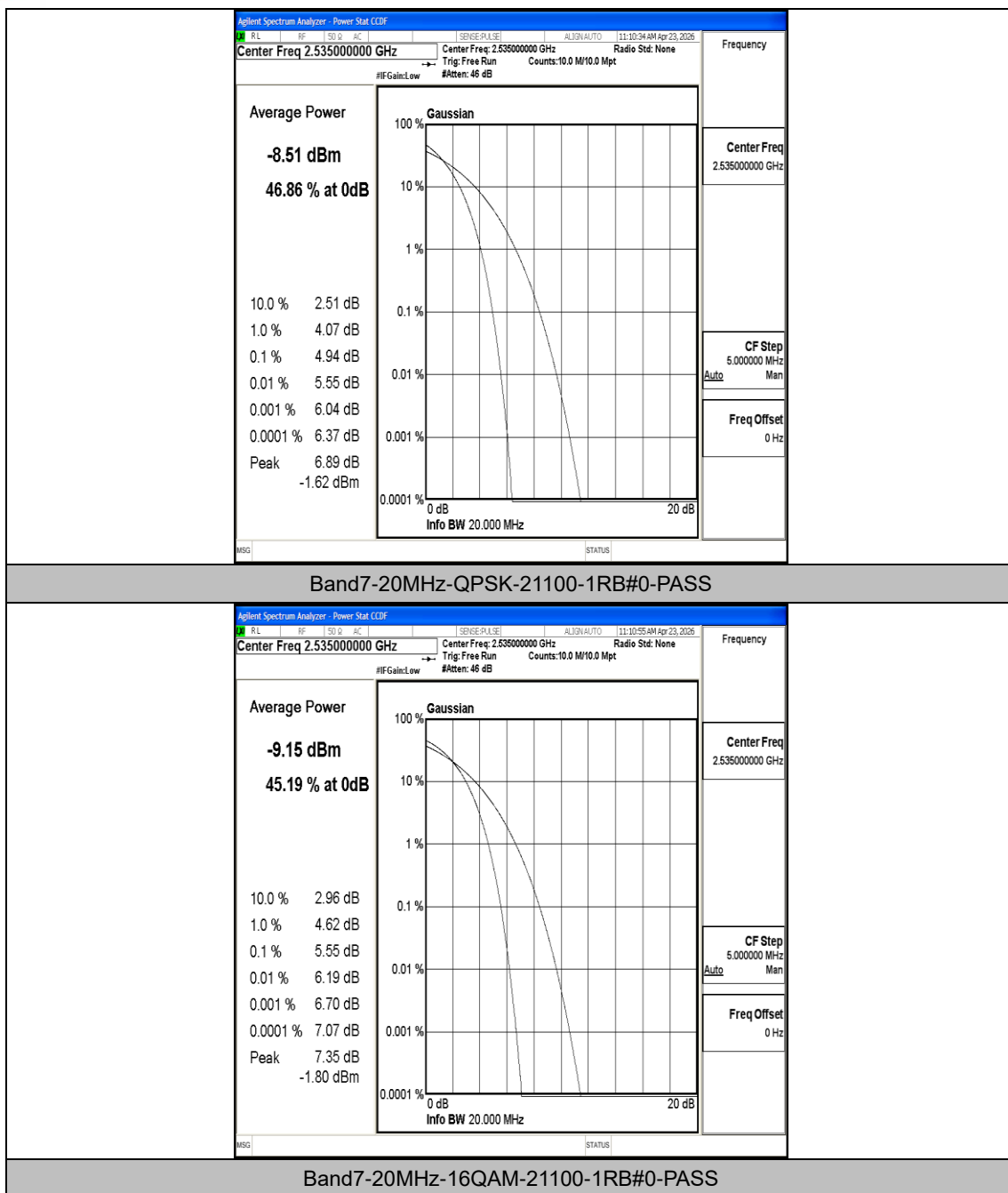


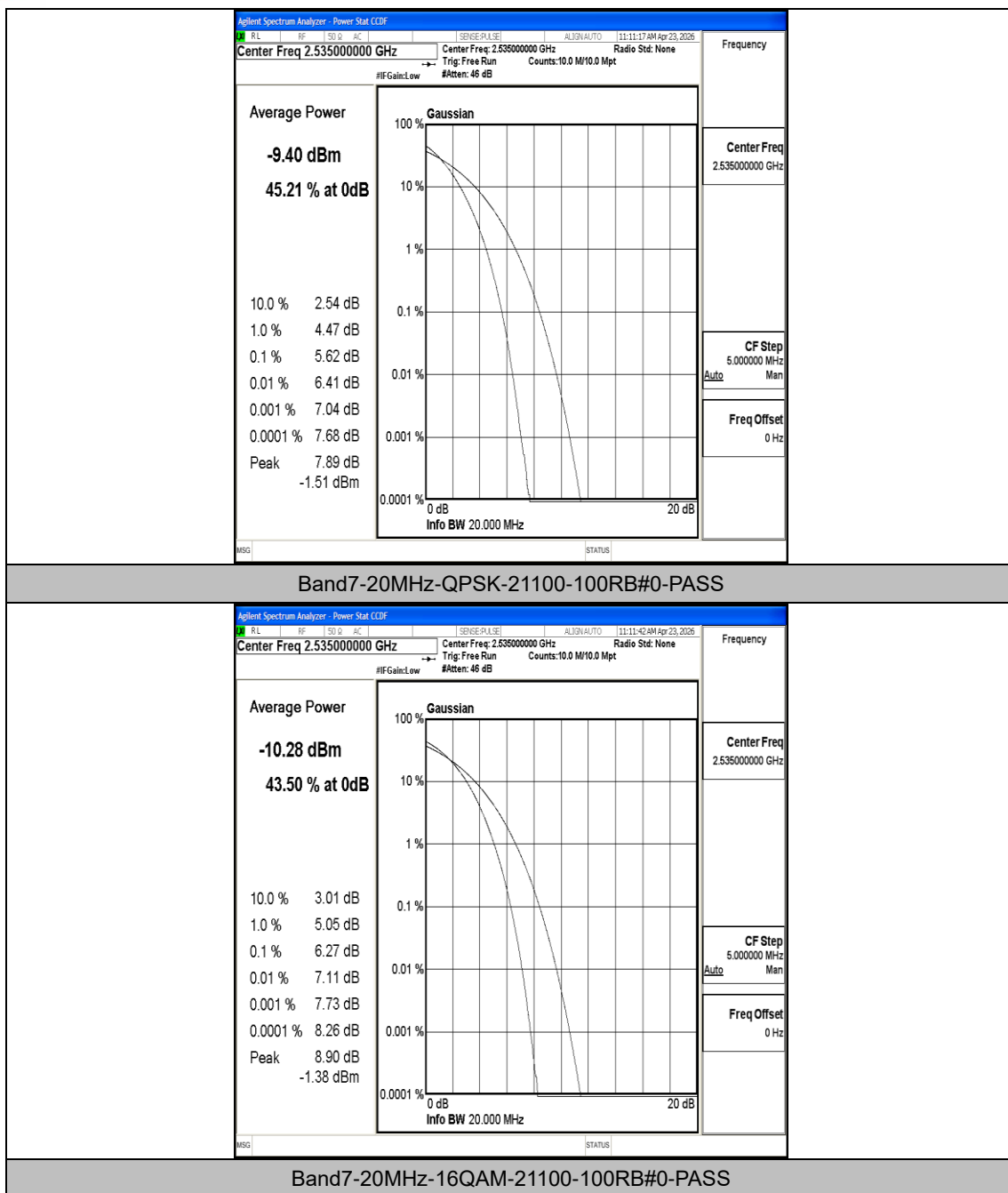


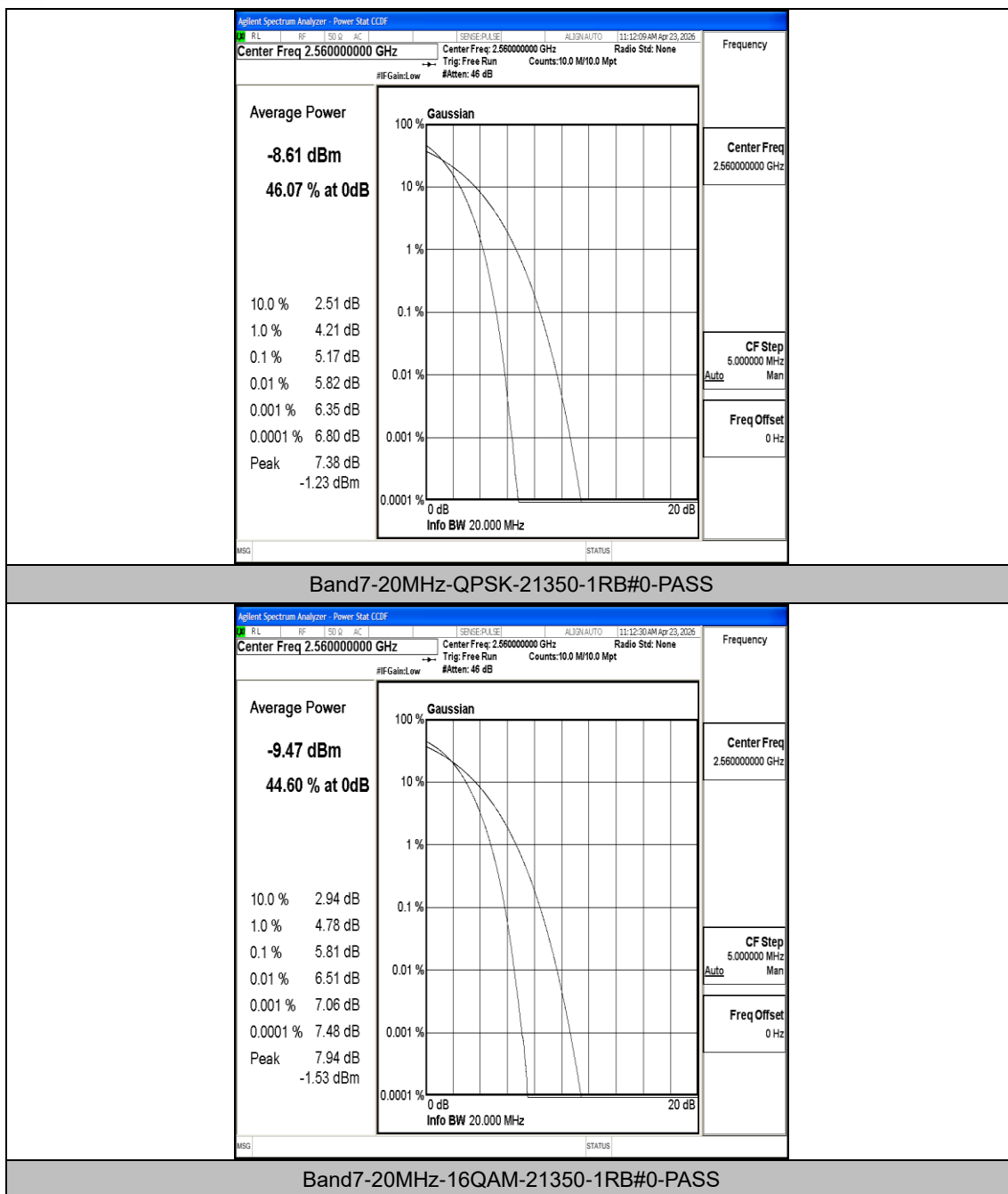


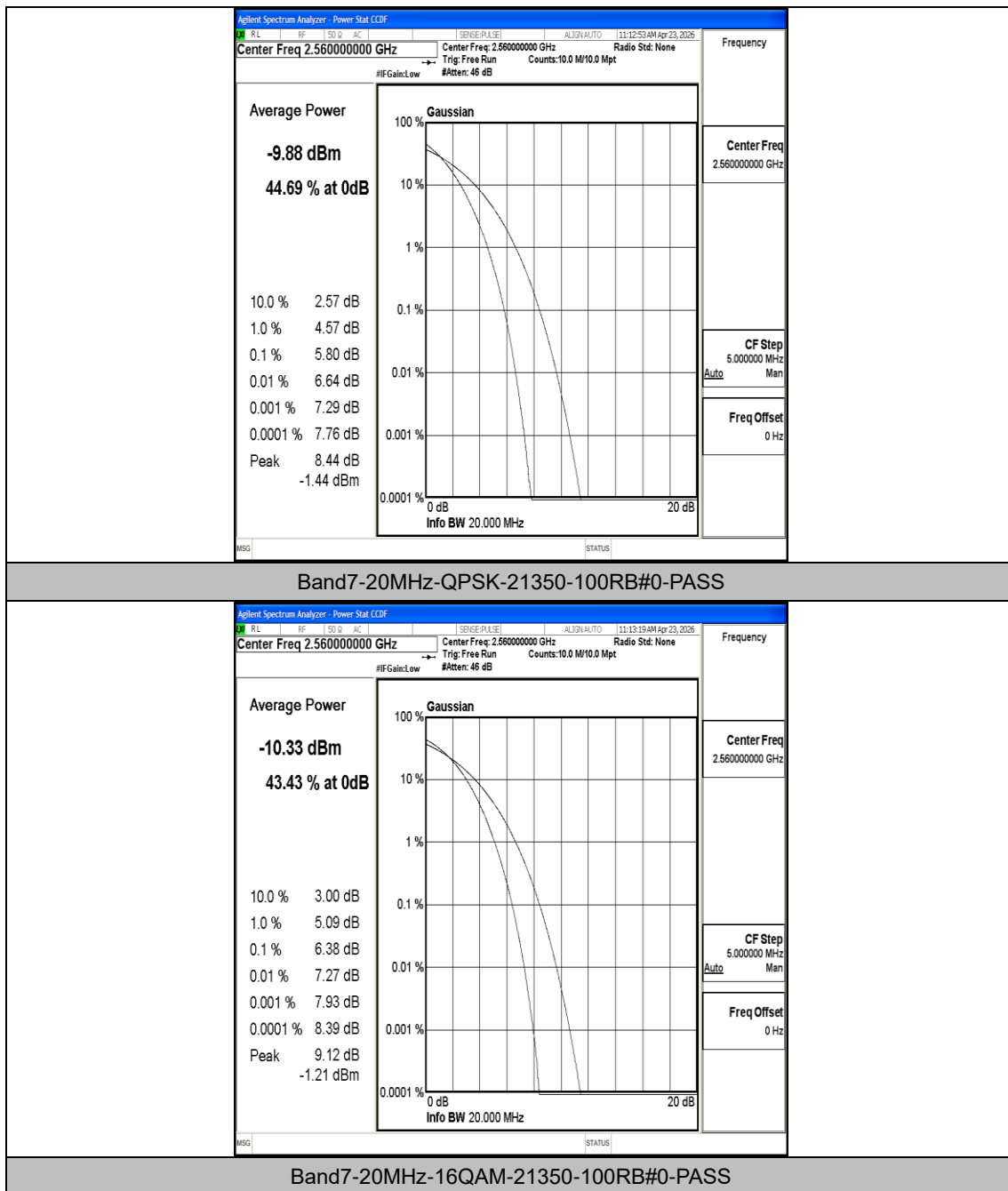










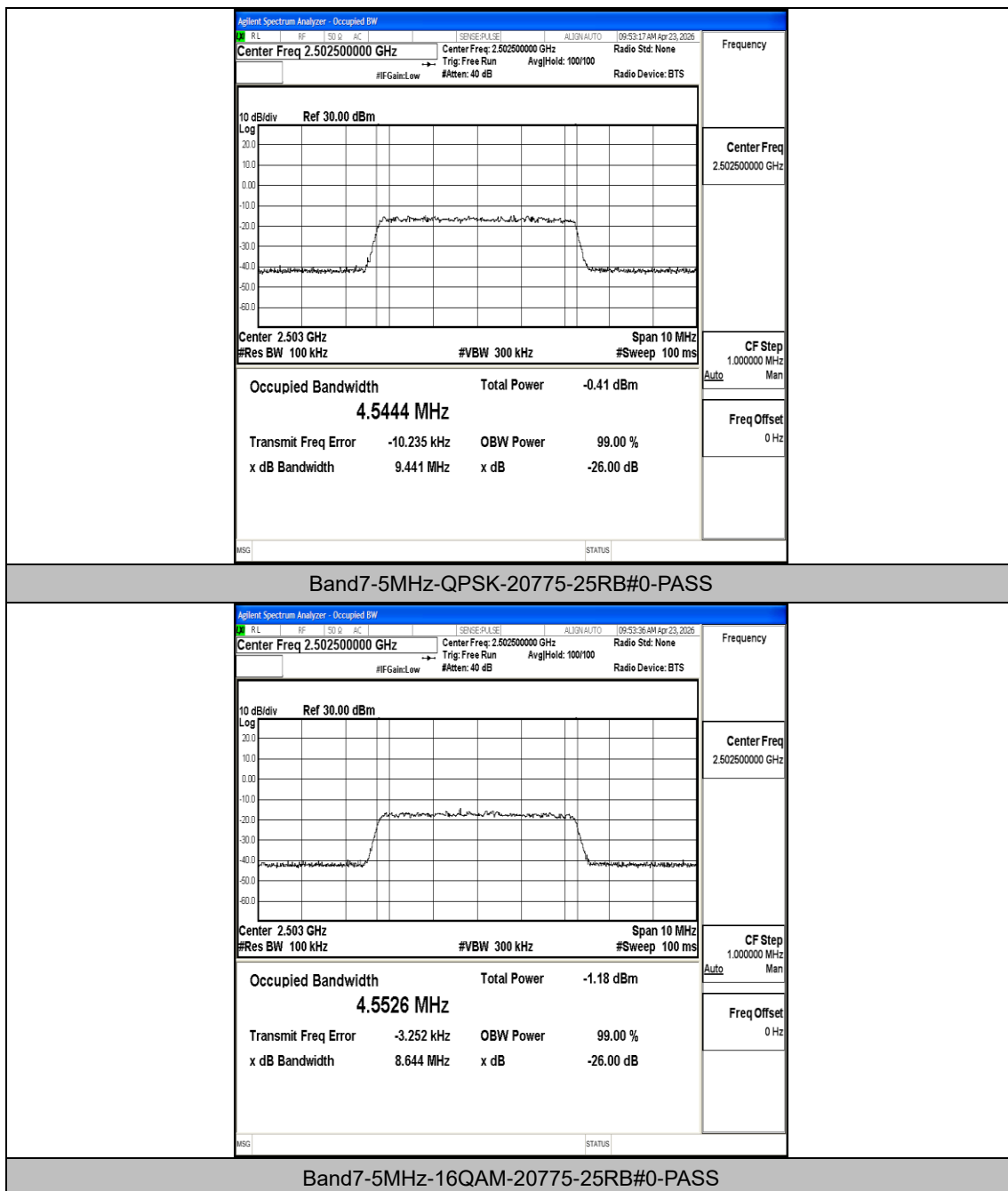


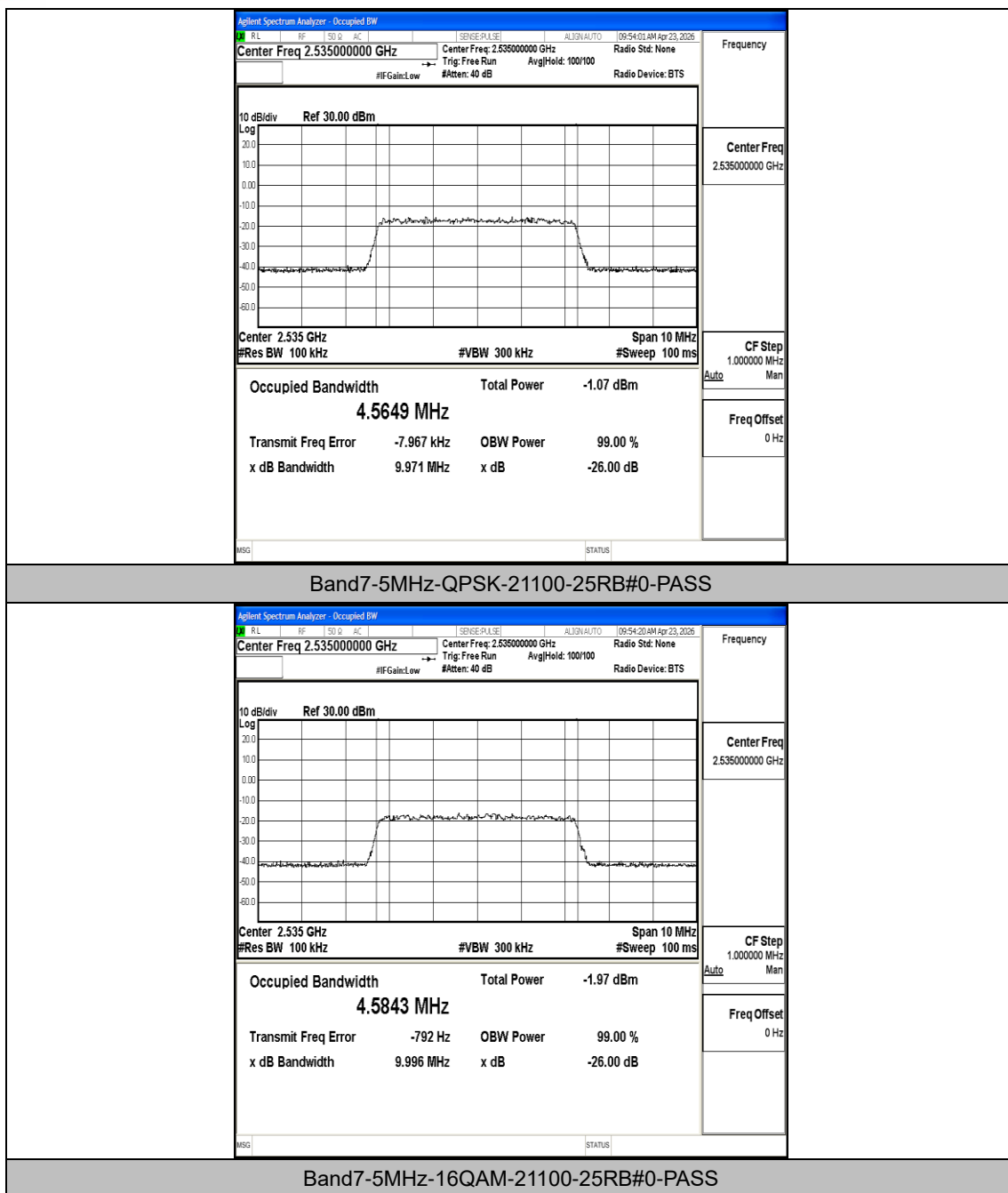
2 26dB Bandwidth and Occupied Bandwidth

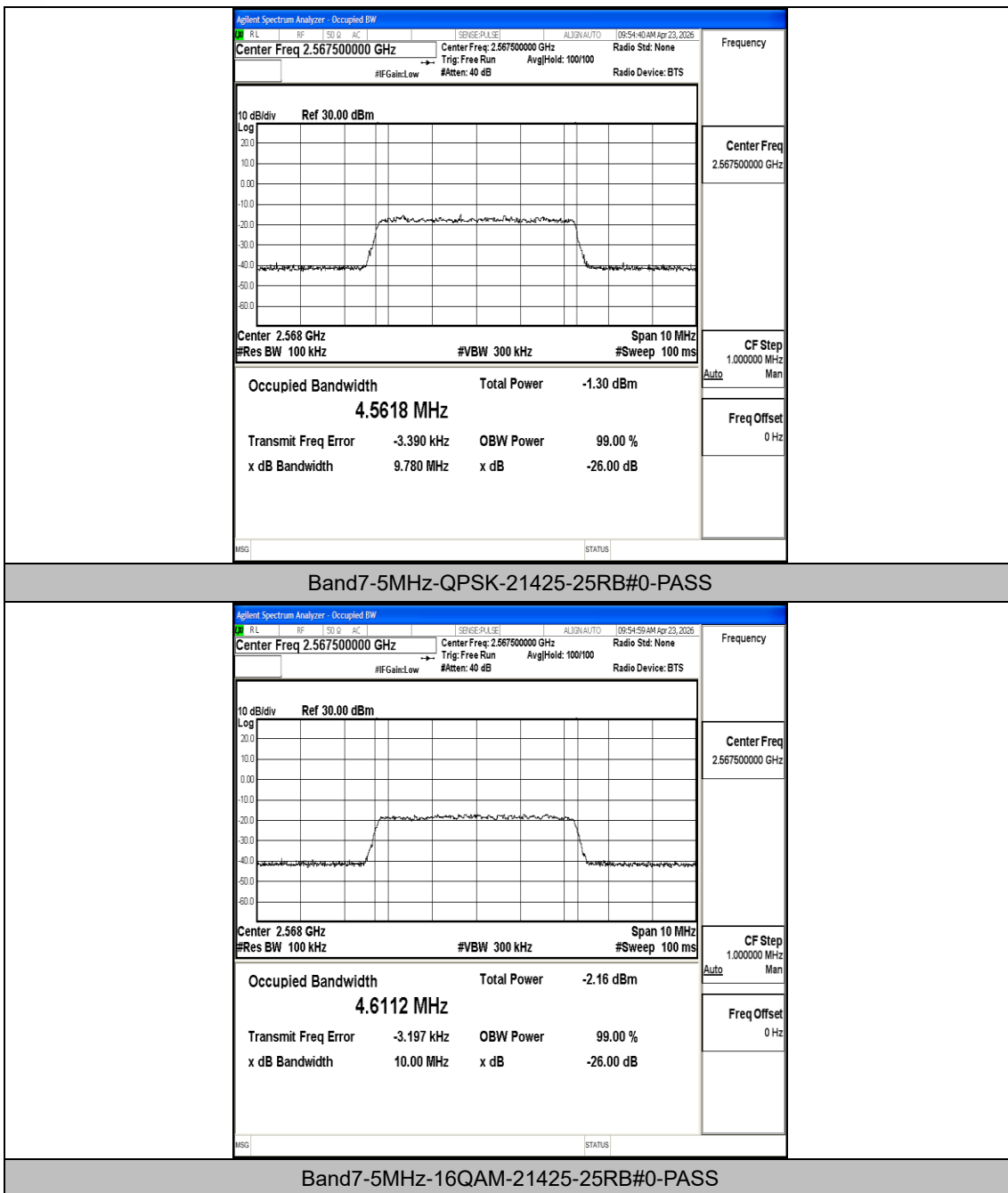
Test Result

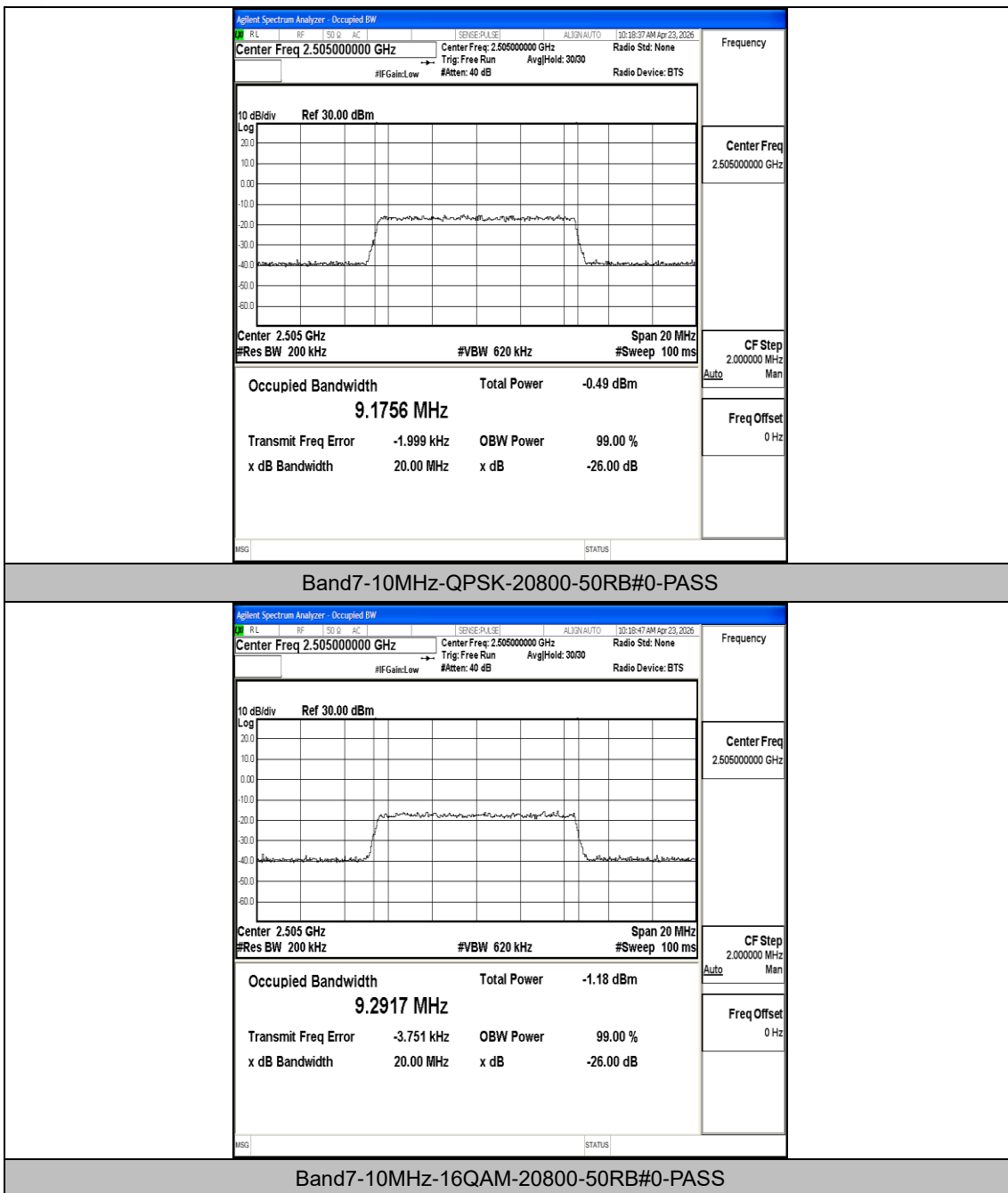
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5444	9.441	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5526	8.644	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5649	9.971	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5843	9.996	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5618	9.780	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.6112	10.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.1756	20.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.2917	20.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	9.3022	20.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	9.5804	20.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.3016	20.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.6466	20.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	15.119	30.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	16.995	30.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	17.386	30.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	19.755	30.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	18.236	30.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	19.364	30.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	24.718	40.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	27.005	40.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	27.125	40.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	29.061	40.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	27.724	40.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	29.280	40.00	PASS

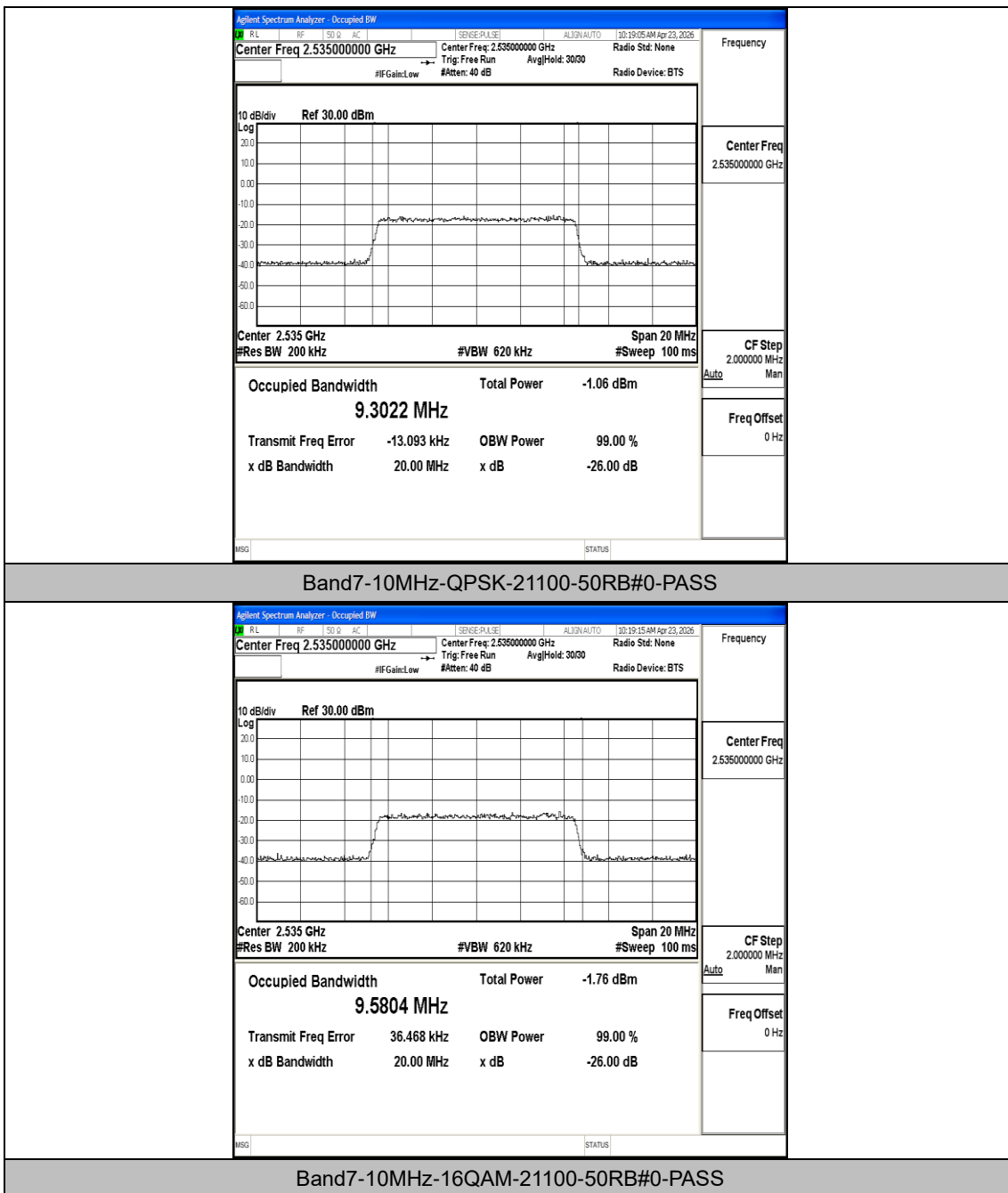
Test Graphs

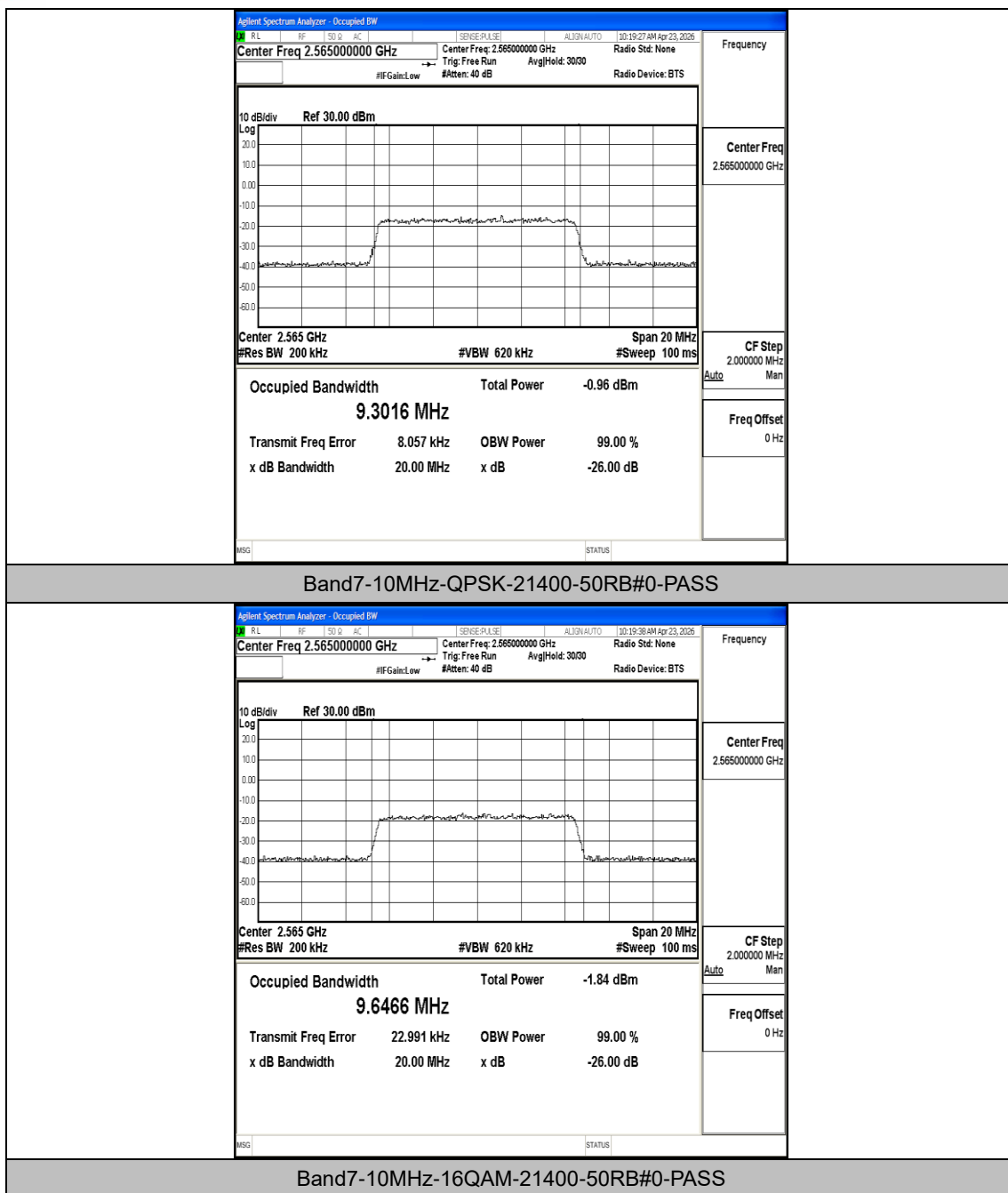


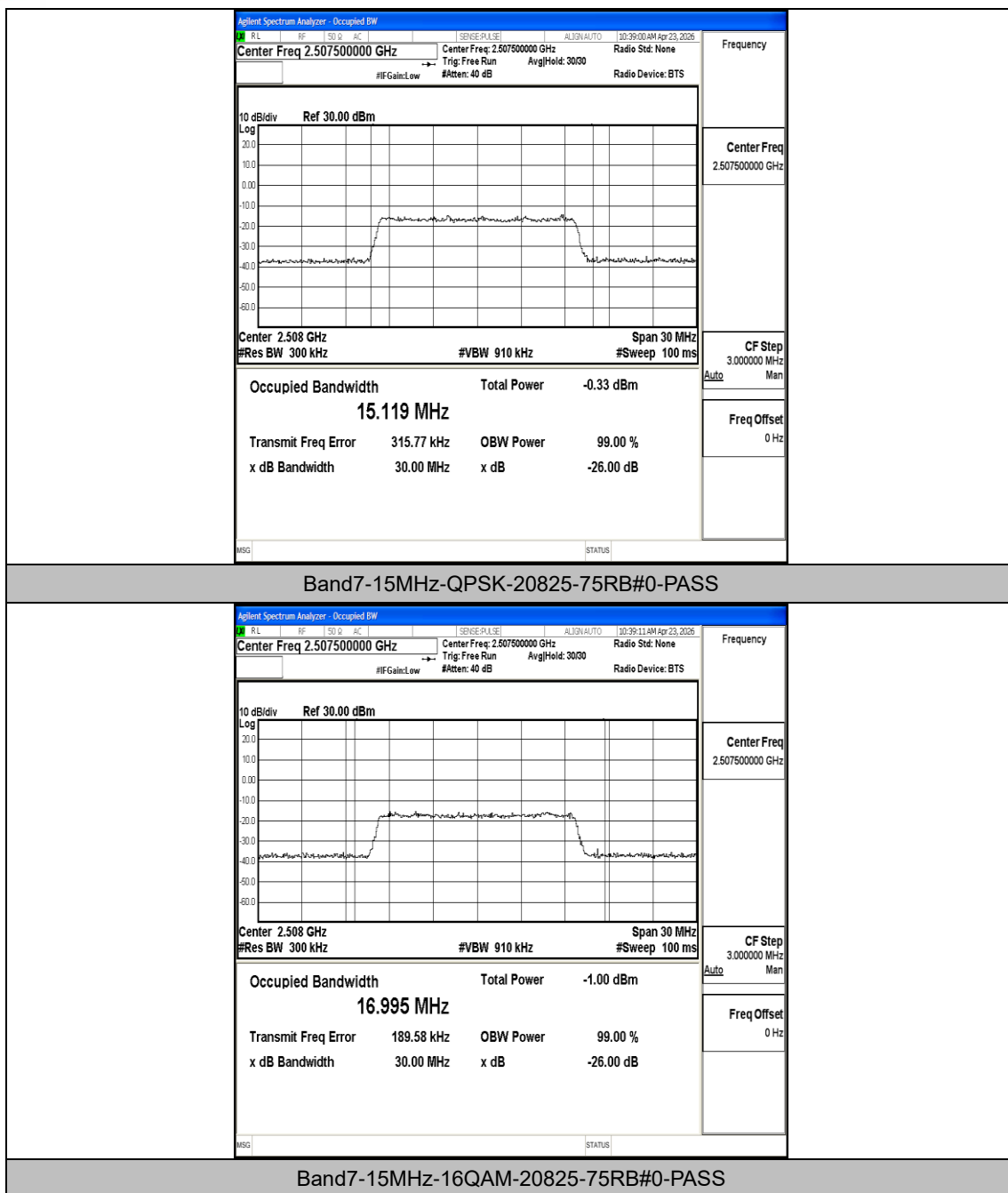


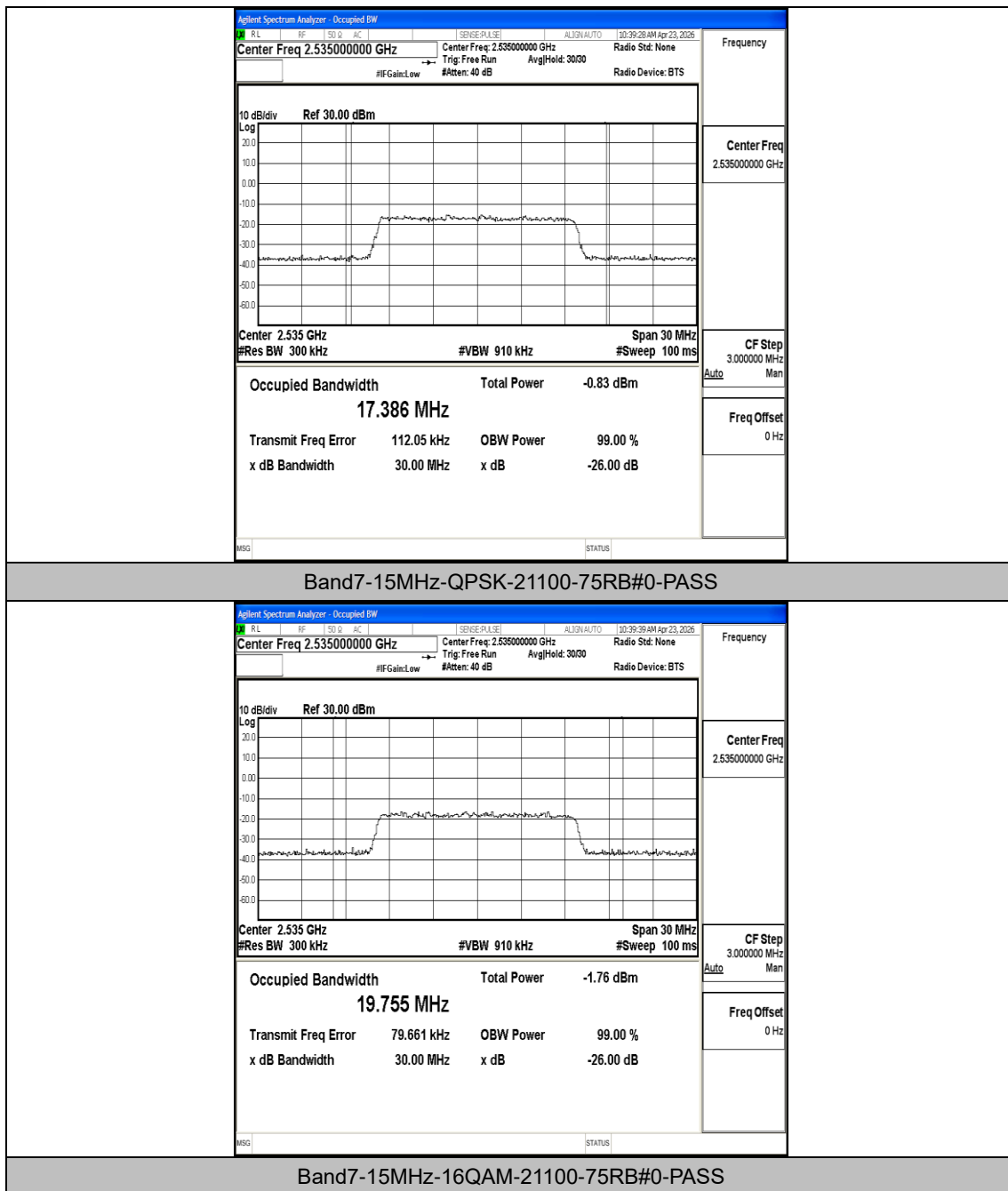


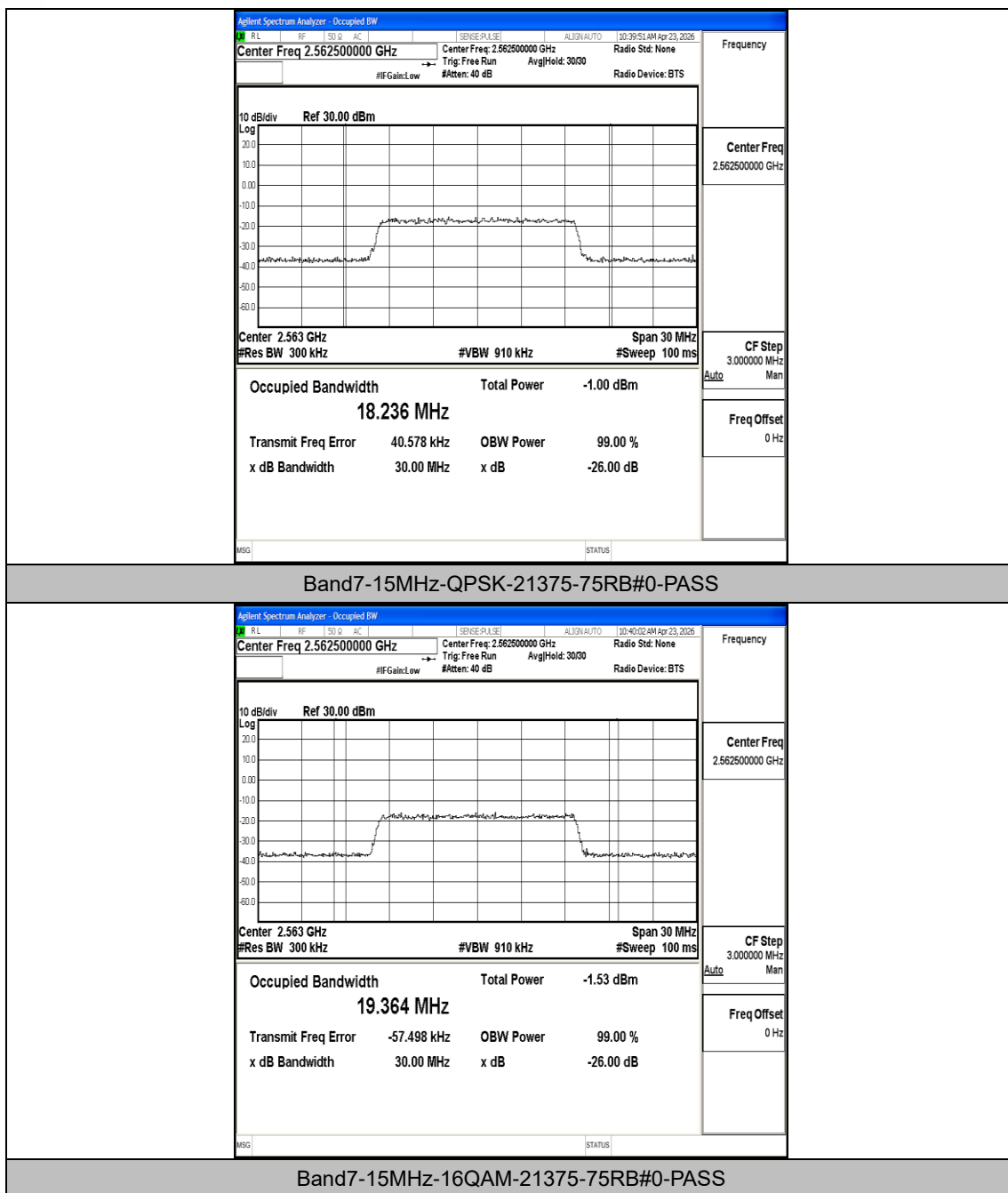


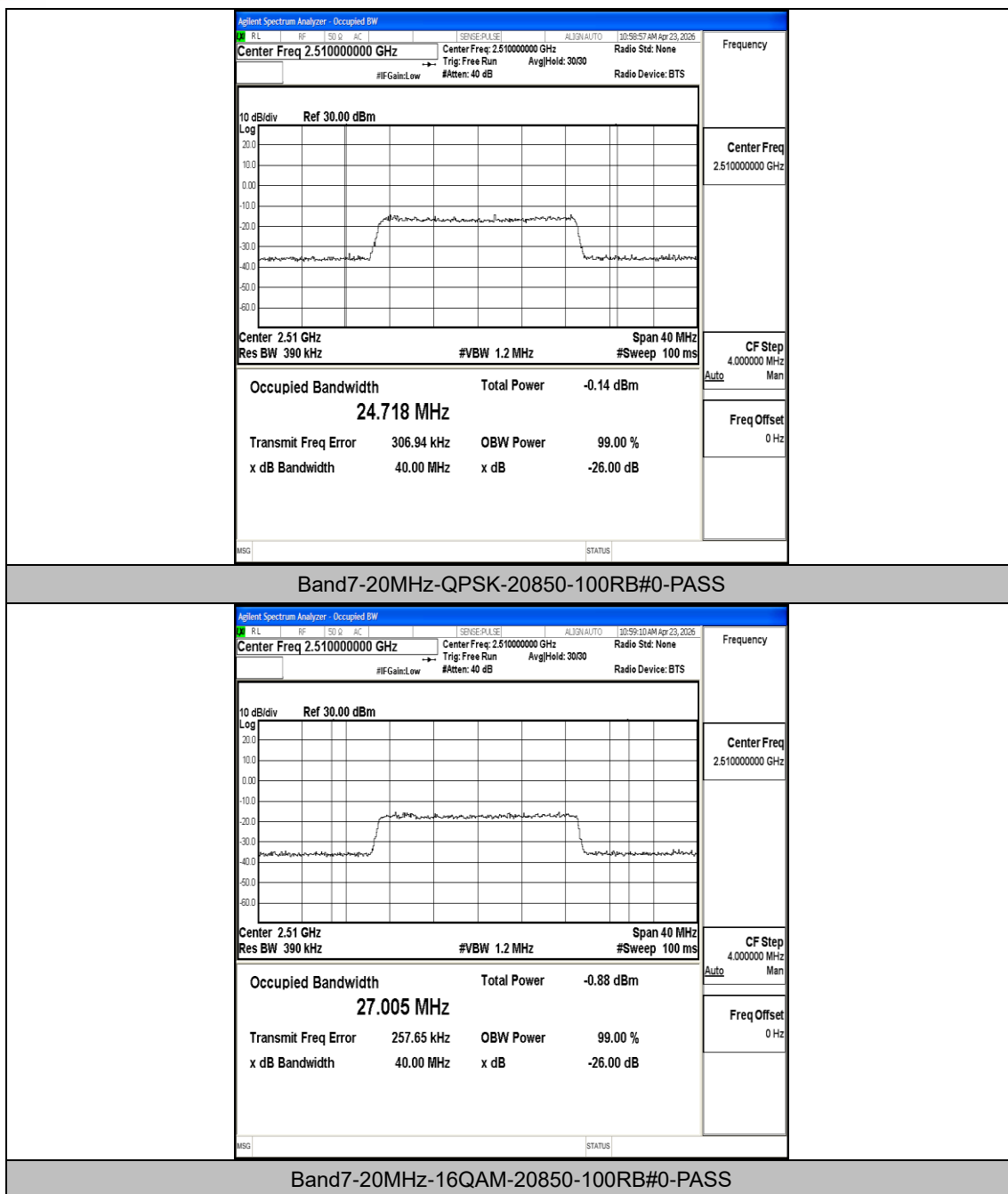


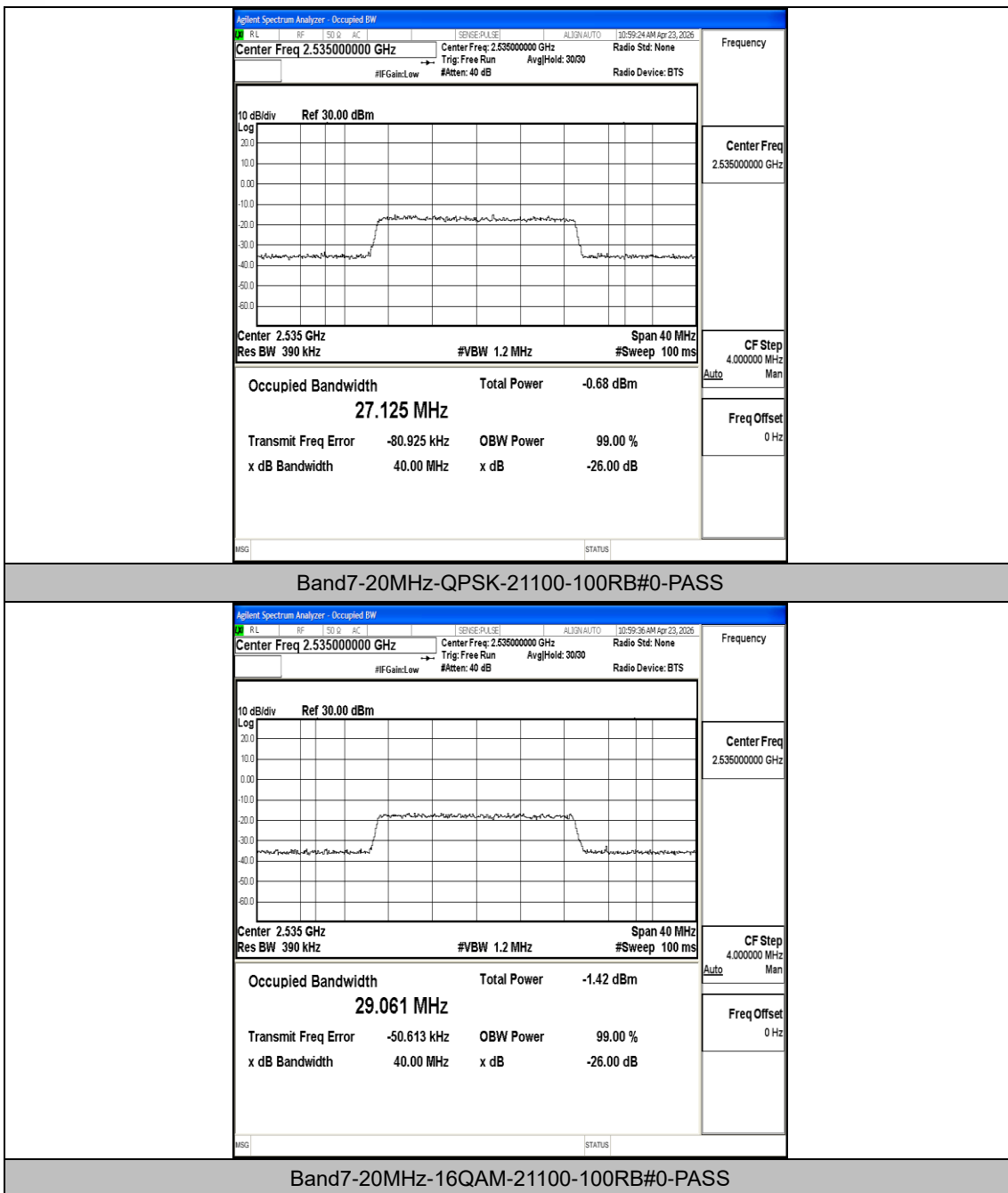


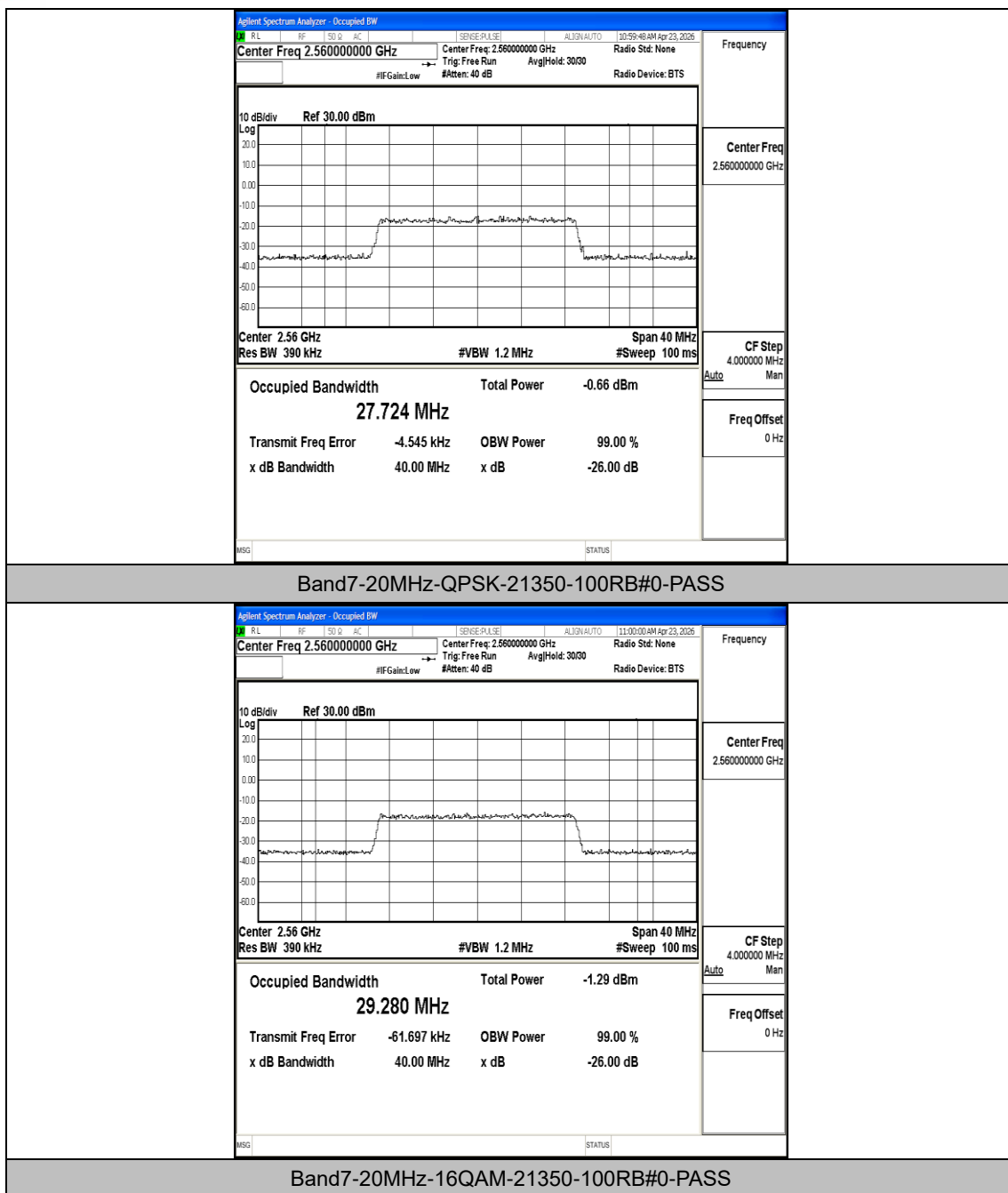










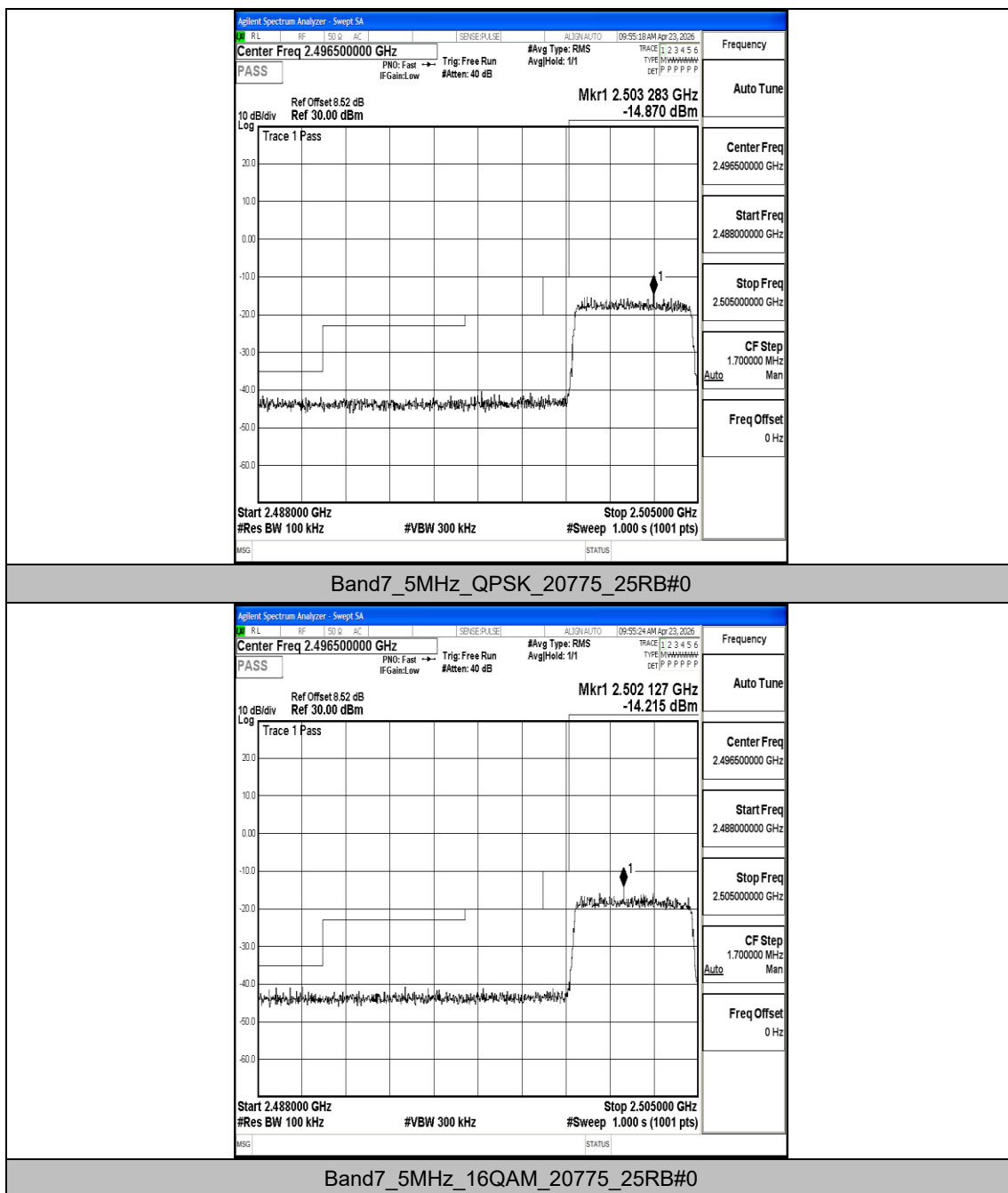


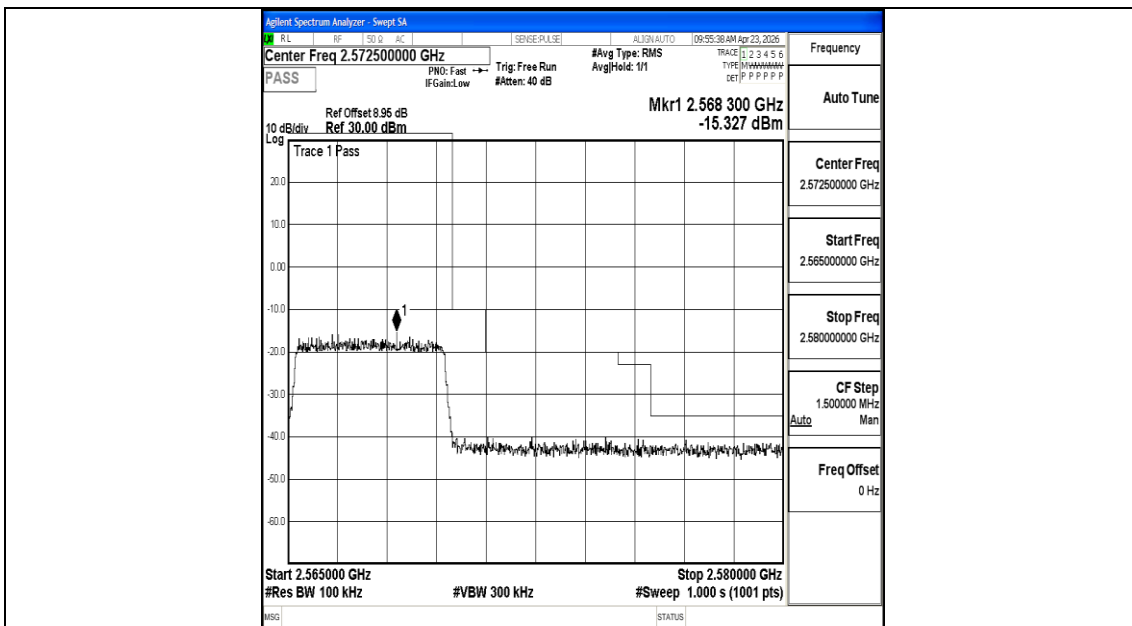
3 Band Edge

Test Result

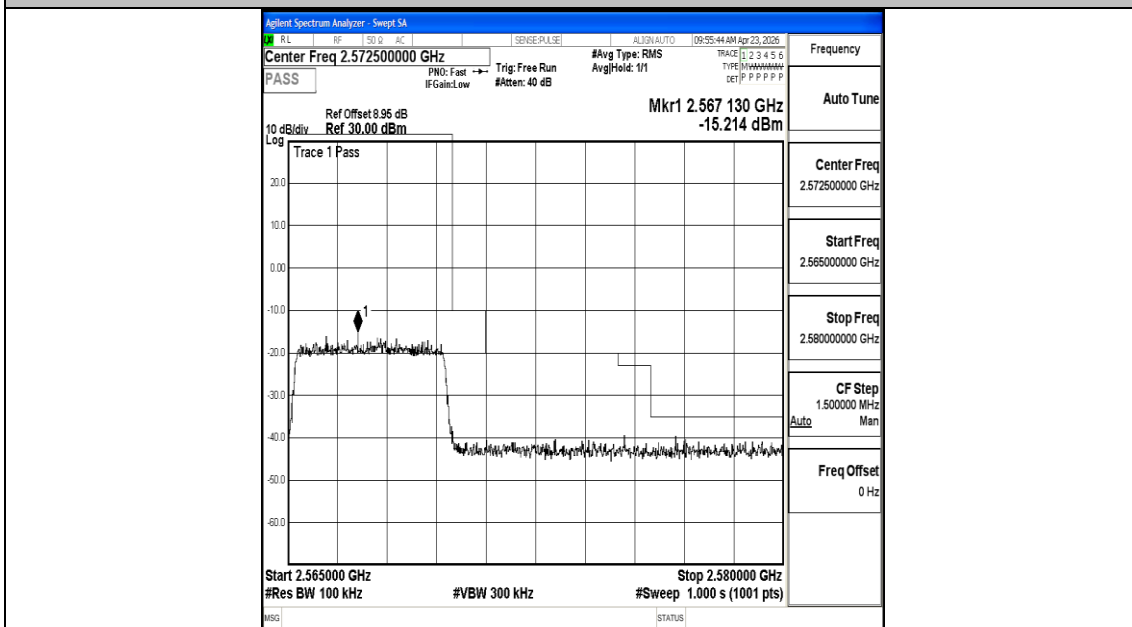
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	2488.20	-41.60	PASS
Band7	5MHz	16QAM	20775	25RB#0	2489.75	-40.71	PASS
Band7	5MHz	QPSK	21425	25RB#0	2577.06	-40.75	PASS
Band7	5MHz	16QAM	21425	25RB#0	2576.75	-39.70	PASS
Band7	10MHz	QPSK	20800	50RB#0	2485.88	-38.27	PASS
Band7	10MHz	16QAM	20800	50RB#0	2485.55	-37.95	PASS
Band7	10MHz	QPSK	21400	50RB#0	2583.25	-37.96	PASS
Band7	10MHz	16QAM	21400	50RB#0	2583.80	-37.98	PASS
Band7	15MHz	QPSK	20825	75RB#0	2480.35	-35.68	PASS
Band7	15MHz	16QAM	20825	75RB#0	2482.10	-36.71	PASS
Band7	15MHz	QPSK	21375	75RB#0	2589.86	-35.83	PASS
Band7	15MHz	16QAM	21375	75RB#0	2586.96	-35.46	PASS
Band7	20MHz	QPSK	20850	100RB#0	2478.96	-34.82	PASS
Band7	20MHz	16QAM	20850	100RB#0	2478.87	-35.27	PASS
Band7	20MHz	QPSK	21350	100RB#0	2594.06	-34.64	PASS
Band7	20MHz	16QAM	21350	100RB#0	2592.71	-34.69	PASS

Test Graphs

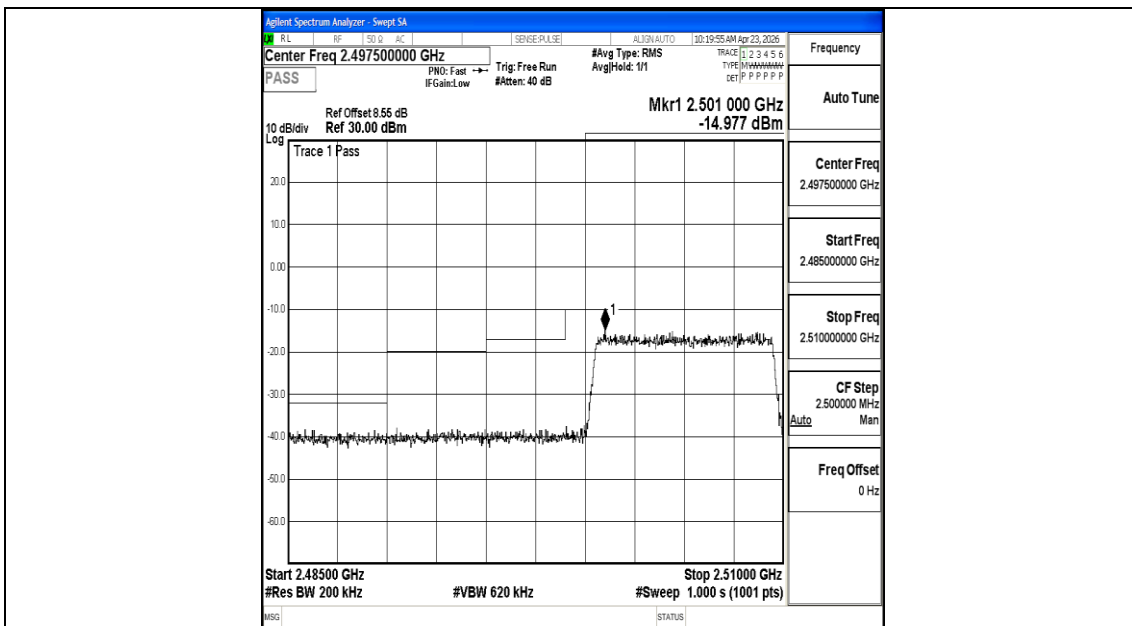




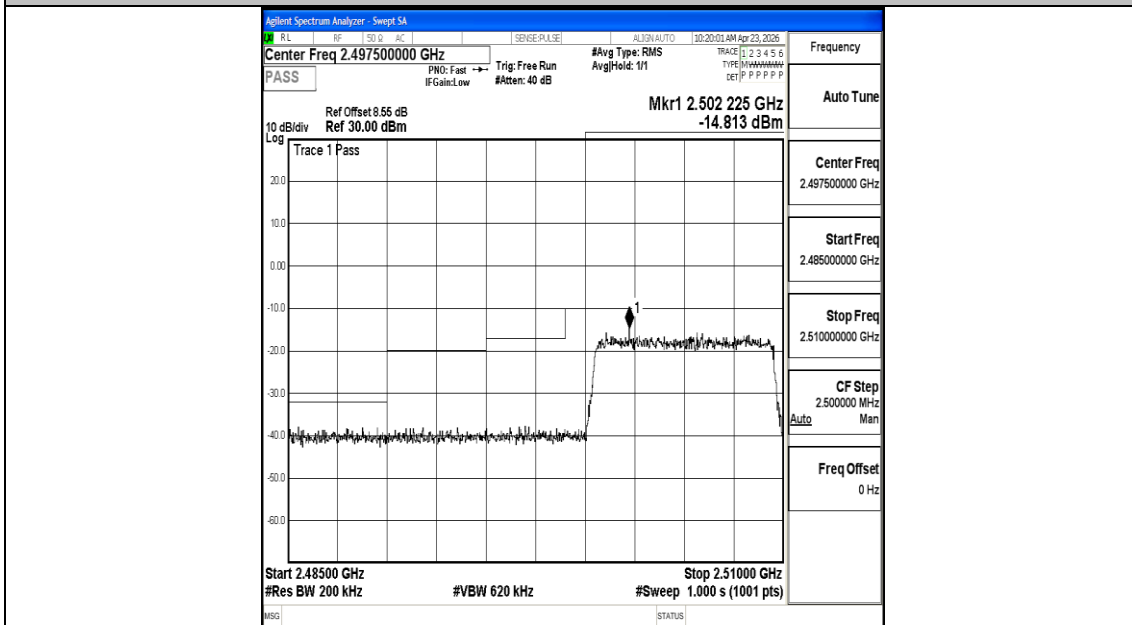
Band7_5MHz_QPSK_21425_25RB#0



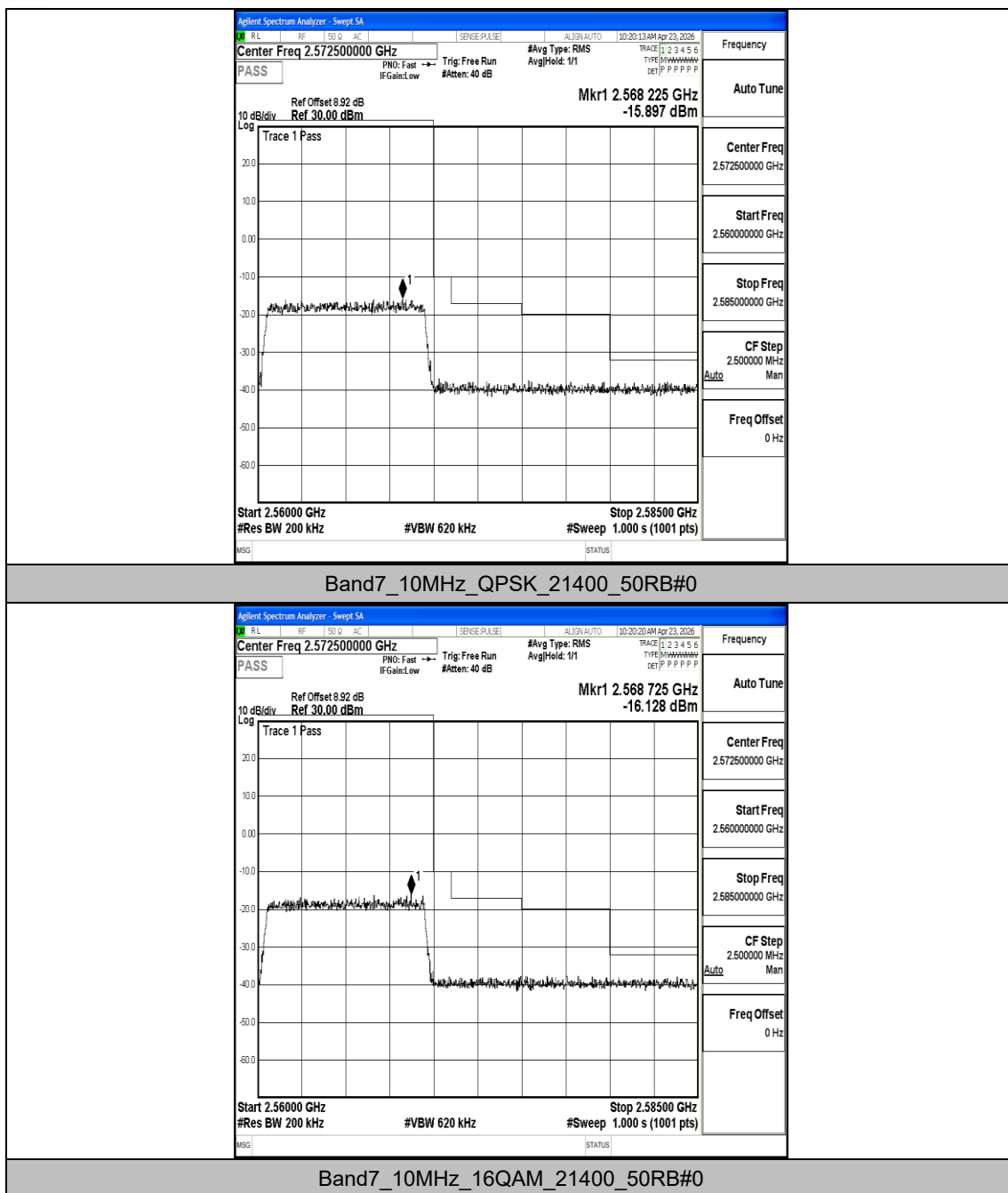
Band7_5MHz_16QAM_21425_25RB#0

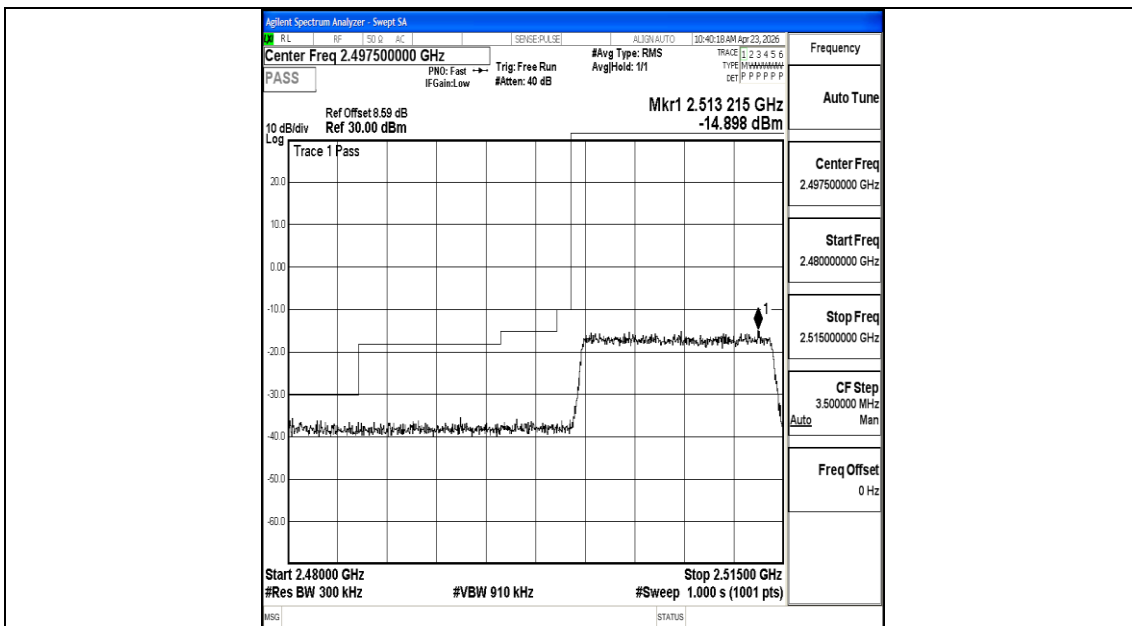


Band7_10MHz_QPSK_20800_50RB#0

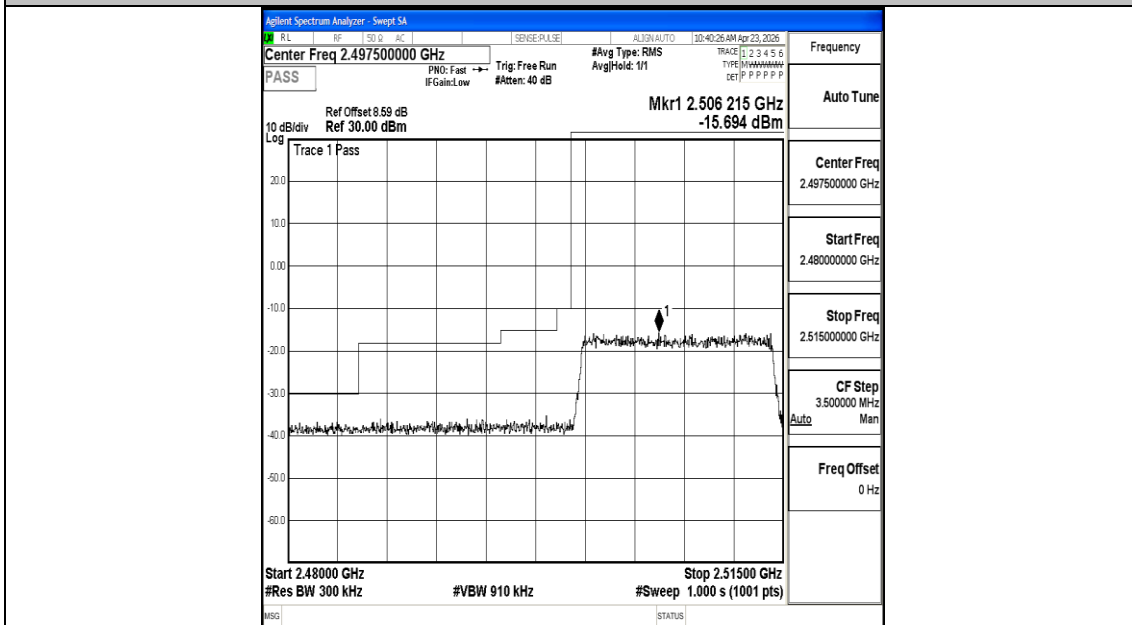


Band7_10MHz_16QAM_20800_50RB#0

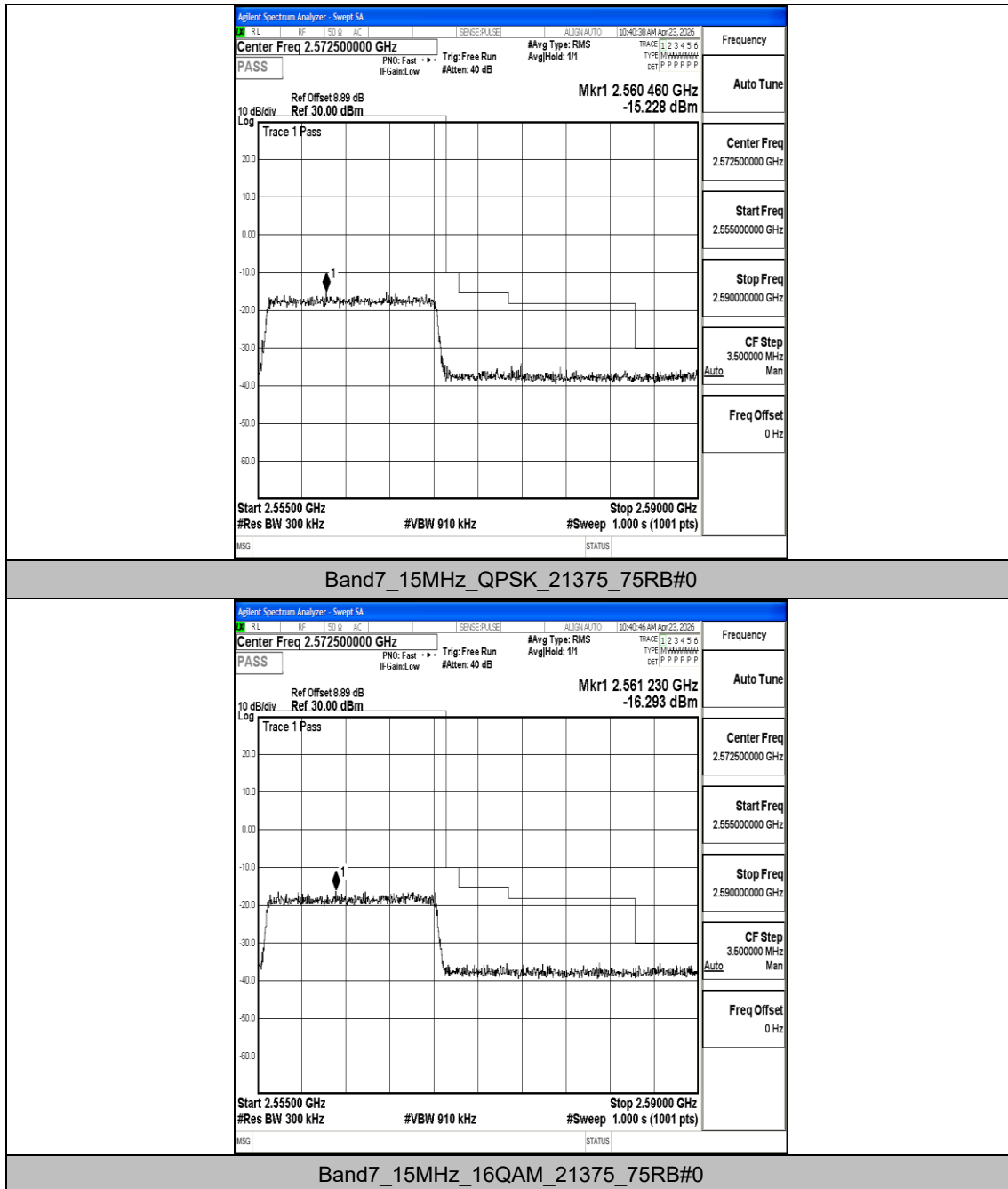


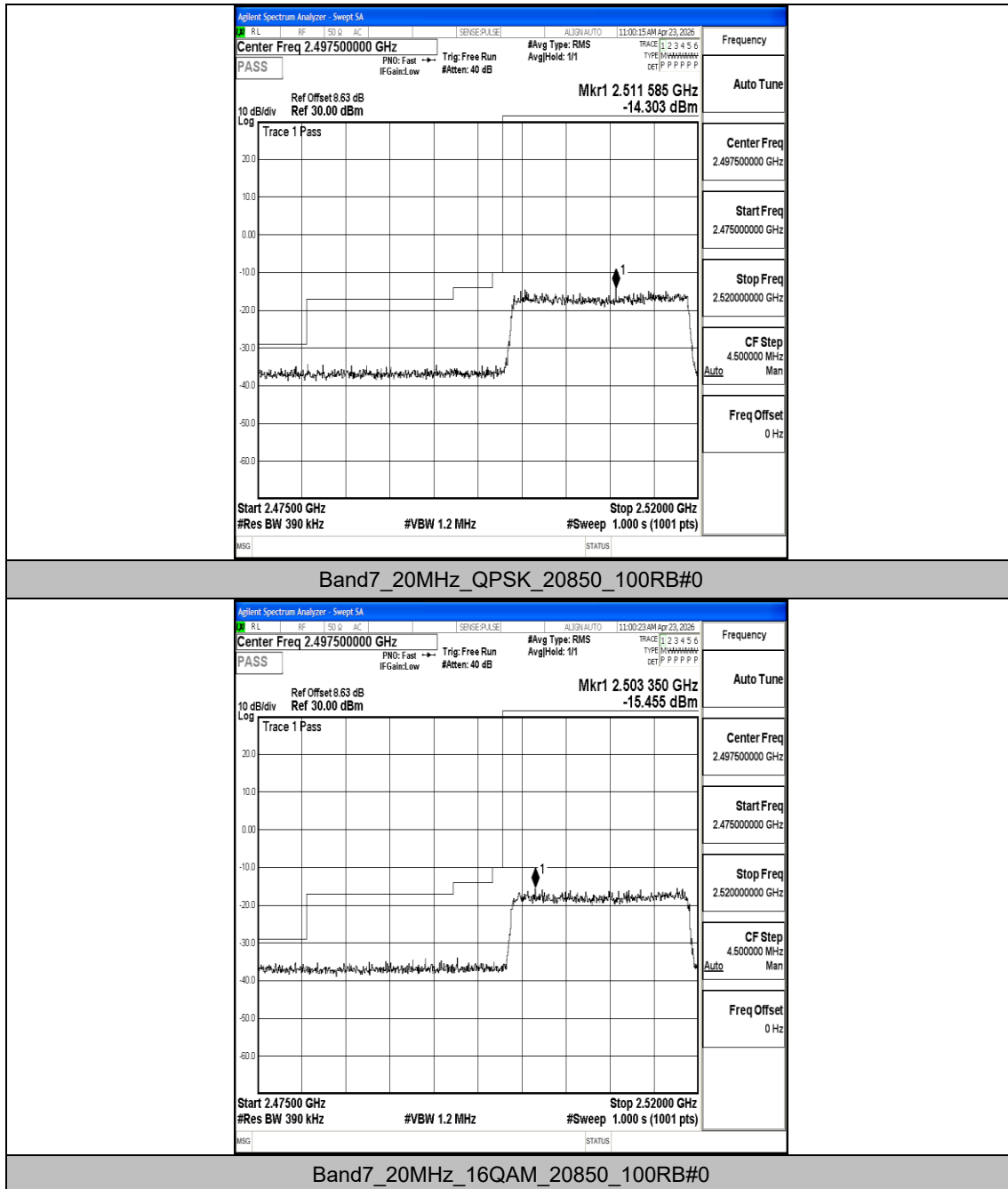


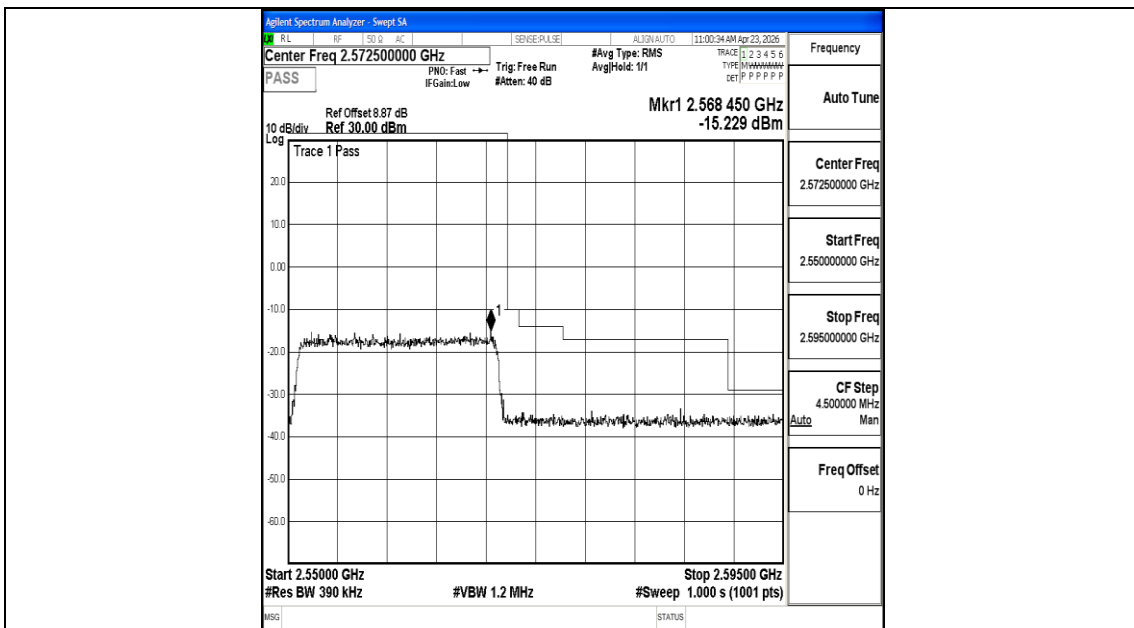
Band7_15MHz_QPSK_20825_75RB#0



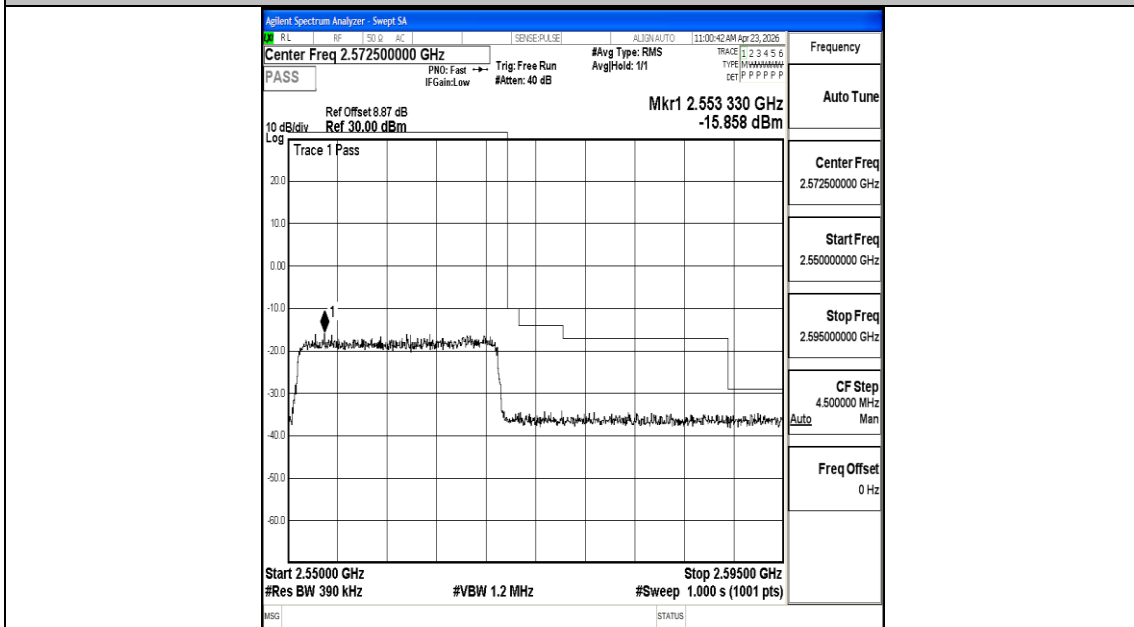
Band7_15MHz_16QAM_20825_75RB#0







Band7_20MHz_QPSK_21350_100RB#0



Band7_20MHz_16QAM_21350_100RB#0

4 Conducted Spurious Emission

Test Result

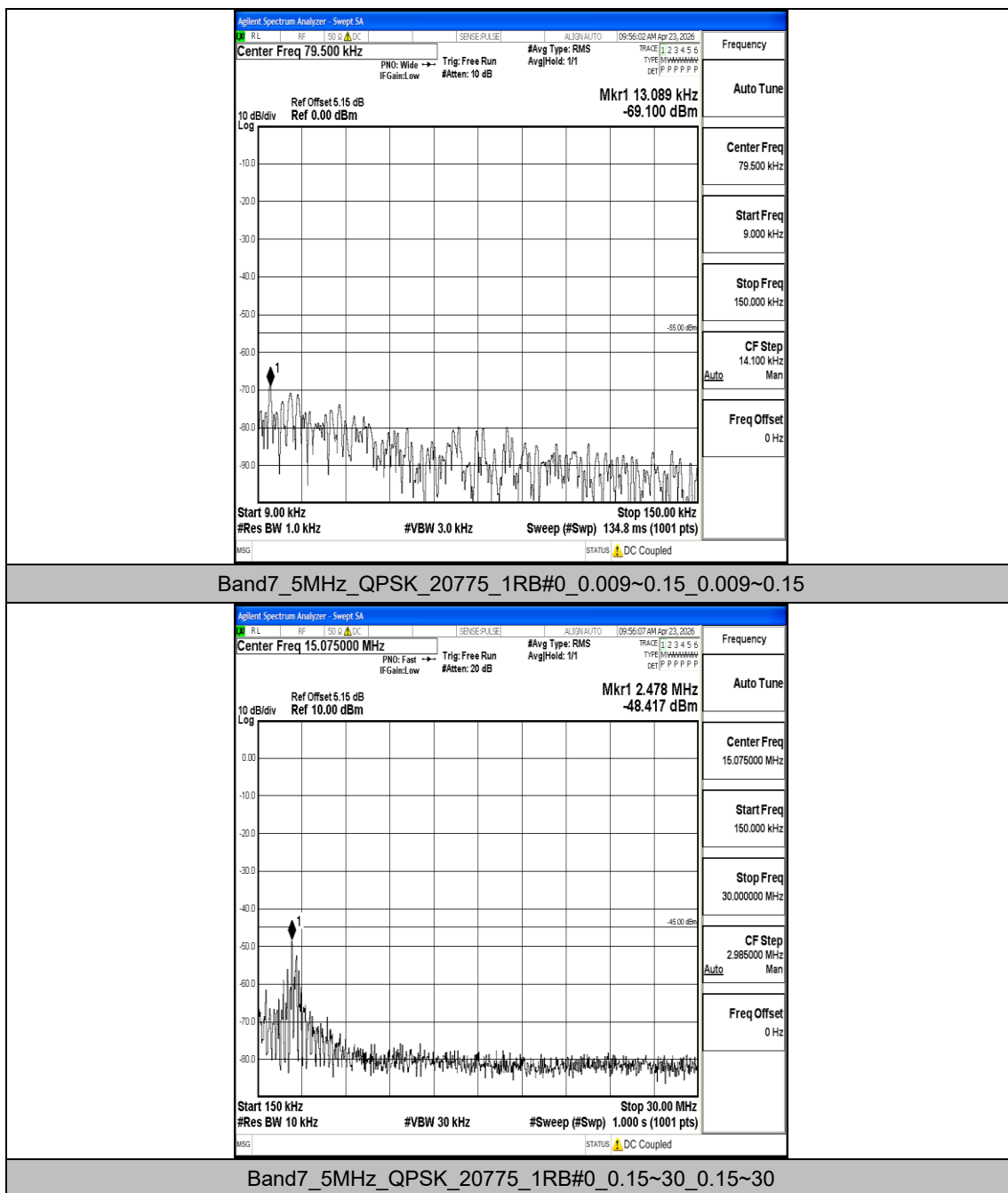
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	0.009~0.15	-69.10	PASS
Band7	5MHz	QPSK	20775	1RB#0	0.15~30	-48.42	PASS
Band7	5MHz	QPSK	20775	1RB#0	30~1000	-52.13	PASS
Band7	5MHz	QPSK	20775	1RB#0	1000~20000	-28.45	PASS
Band7	5MHz	QPSK	20775	1RB#0	20000~27000	-36.22	PASS
Band7	5MHz	16QAM	20775	1RB#0	0.009~0.15	-66.69	PASS
Band7	5MHz	16QAM	20775	1RB#0	0.15~30	-46.44	PASS
Band7	5MHz	16QAM	20775	1RB#0	30~1000	-53.18	PASS
Band7	5MHz	16QAM	20775	1RB#0	1000~20000	-28.15	PASS
Band7	5MHz	16QAM	20775	1RB#0	20000~27000	-36.64	PASS
Band7	5MHz	QPSK	21100	1RB#0	0.009~0.15	-64.53	PASS
Band7	5MHz	QPSK	21100	1RB#0	0.15~30	-49.30	PASS
Band7	5MHz	QPSK	21100	1RB#0	30~1000	-52.34	PASS
Band7	5MHz	QPSK	21100	1RB#0	1000~20000	-28.76	PASS
Band7	5MHz	QPSK	21100	1RB#0	20000~27000	-36.52	PASS
Band7	5MHz	16QAM	21100	1RB#0	0.009~0.15	-66.86	PASS
Band7	5MHz	16QAM	21100	1RB#0	0.15~30	-48.72	PASS
Band7	5MHz	16QAM	21100	1RB#0	30~1000	-53.09	PASS
Band7	5MHz	16QAM	21100	1RB#0	1000~20000	-28.37	PASS
Band7	5MHz	16QAM	21100	1RB#0	20000~27000	-35.81	PASS
Band7	5MHz	QPSK	21425	1RB#0	0.009~0.15	-68.29	PASS
Band7	5MHz	QPSK	21425	1RB#0	0.15~30	-51.66	PASS
Band7	5MHz	QPSK	21425	1RB#0	30~1000	-53.02	PASS
Band7	5MHz	QPSK	21425	1RB#0	1000~20000	-28.40	PASS
Band7	5MHz	QPSK	21425	1RB#0	20000~27000	-36.30	PASS
Band7	5MHz	16QAM	21425	1RB#0	0.009~0.15	-69.45	PASS
Band7	5MHz	16QAM	21425	1RB#0	0.15~30	-51.06	PASS
Band7	5MHz	16QAM	21425	1RB#0	30~1000	-52.65	PASS
Band7	5MHz	16QAM	21425	1RB#0	1000~20000	-28.36	PASS
Band7	5MHz	16QAM	21425	1RB#0	20000~27000	-35.12	PASS
Band7	10MHz	QPSK	20800	1RB#0	0.009~0.15	-66.84	PASS
Band7	10MHz	QPSK	20800	1RB#0	0.15~30	-53.98	PASS
Band7	10MHz	QPSK	20800	1RB#0	30~1000	-53.65	PASS
Band7	10MHz	QPSK	20800	1RB#0	1000~20000	-28.77	PASS
Band7	10MHz	QPSK	20800	1RB#0	20000~27000	-36.06	PASS
Band7	10MHz	16QAM	20800	1RB#0	0.009~0.15	-68.92	PASS

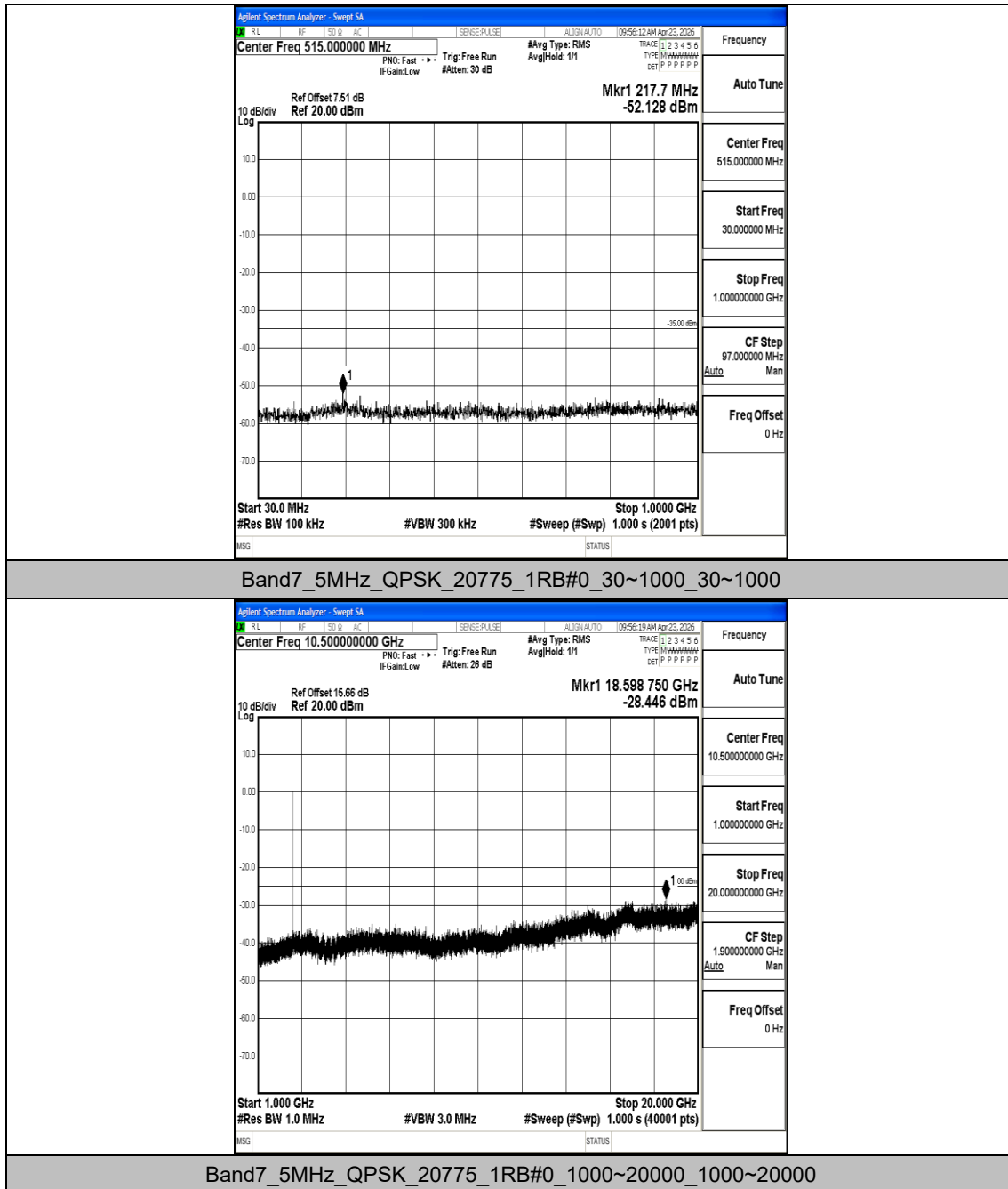
Band7	10MHz	16QAM	20800	1RB#0	0.15~30	-45.95	PASS
Band7	10MHz	16QAM	20800	1RB#0	30~1000	-52.96	PASS
Band7	10MHz	16QAM	20800	1RB#0	1000~20000	-27.68	PASS
Band7	10MHz	16QAM	20800	1RB#0	20000~27000	-35.72	PASS
Band7	10MHz	QPSK	21100	1RB#0	0.009~0.15	-68.70	PASS
Band7	10MHz	QPSK	21100	1RB#0	0.15~30	-47.67	PASS
Band7	10MHz	QPSK	21100	1RB#0	30~1000	-52.55	PASS
Band7	10MHz	QPSK	21100	1RB#0	1000~20000	-28.34	PASS
Band7	10MHz	QPSK	21100	1RB#0	20000~27000	-36.01	PASS
Band7	10MHz	16QAM	21100	1RB#0	0.009~0.15	-65.13	PASS
Band7	10MHz	16QAM	21100	1RB#0	0.15~30	-49.44	PASS
Band7	10MHz	16QAM	21100	1RB#0	30~1000	-52.68	PASS
Band7	10MHz	16QAM	21100	1RB#0	1000~20000	-27.96	PASS
Band7	10MHz	16QAM	21100	1RB#0	20000~27000	-35.57	PASS
Band7	10MHz	QPSK	21400	1RB#0	0.009~0.15	-66.82	PASS
Band7	10MHz	QPSK	21400	1RB#0	0.15~30	-47.32	PASS
Band7	10MHz	QPSK	21400	1RB#0	30~1000	-52.93	PASS
Band7	10MHz	QPSK	21400	1RB#0	1000~20000	-28.54	PASS
Band7	10MHz	QPSK	21400	1RB#0	20000~27000	-36.43	PASS
Band7	10MHz	16QAM	21400	1RB#0	0.009~0.15	-65.16	PASS
Band7	10MHz	16QAM	21400	1RB#0	0.15~30	-51.16	PASS
Band7	10MHz	16QAM	21400	1RB#0	30~1000	-53.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	1000~20000	-27.75	PASS
Band7	10MHz	16QAM	21400	1RB#0	20000~27000	-35.97	PASS
Band7	15MHz	QPSK	20825	1RB#0	0.009~0.15	-68.27	PASS
Band7	15MHz	QPSK	20825	1RB#0	0.15~30	-58.56	PASS
Band7	15MHz	QPSK	20825	1RB#0	30~1000	-51.99	PASS
Band7	15MHz	QPSK	20825	1RB#0	1000~20000	-27.96	PASS
Band7	15MHz	QPSK	20825	1RB#0	20000~27000	-35.81	PASS
Band7	15MHz	16QAM	20825	1RB#0	20000~27000	-35.88	PASS
Band7	15MHz	QPSK	21100	1RB#0	0.009~0.15	-64.99	PASS
Band7	15MHz	QPSK	21100	1RB#0	0.15~30	-57.20	PASS
Band7	15MHz	QPSK	21100	1RB#0	30~1000	-51.61	PASS
Band7	15MHz	QPSK	21100	1RB#0	1000~20000	-28.63	PASS
Band7	15MHz	QPSK	21100	1RB#0	20000~27000	-35.91	PASS
Band7	15MHz	16QAM	21100	1RB#0	0.009~0.15	-66.71	PASS
Band7	15MHz	16QAM	21100	1RB#0	0.15~30	-56.09	PASS
Band7	15MHz	16QAM	21100	1RB#0	30~1000	-52.75	PASS
Band7	15MHz	16QAM	21100	1RB#0	20000~27000	-35.58	PASS
Band7	15MHz	QPSK	21375	1RB#0	0.009~0.15	-67.47	PASS
Band7	15MHz	QPSK	21375	1RB#0	0.15~30	-56.90	PASS
Band7	15MHz	QPSK	21375	1RB#0	30~1000	-52.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	1000~20000	-28.33	PASS

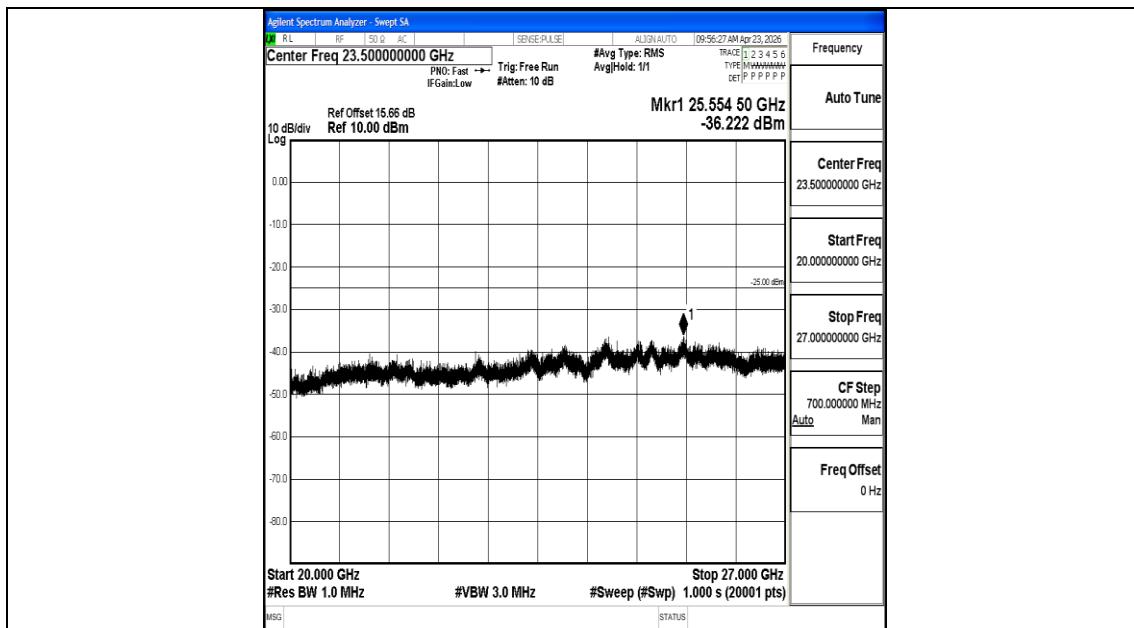


Band7	15MHz	QPSK	21375	1RB#0	20000~27000	-36.01	PASS
Band7	15MHz	16QAM	21375	1RB#0	0.009~0.15	-67.50	PASS
Band7	15MHz	16QAM	21375	1RB#0	0.15~30	-54.31	PASS
Band7	15MHz	16QAM	21375	1RB#0	30~1000	-52.78	PASS
Band7	15MHz	16QAM	21375	1RB#0	1000~20000	-28.43	PASS
Band7	15MHz	16QAM	21375	1RB#0	20000~27000	-35.87	PASS
Band7	20MHz	QPSK	20850	1RB#0	0.009~0.15	-67.73	PASS
Band7	20MHz	QPSK	20850	1RB#0	0.15~30	-57.32	PASS
Band7	20MHz	QPSK	20850	1RB#0	30~1000	-52.48	PASS
Band7	20MHz	QPSK	20850	1RB#0	1000~20000	-28.08	PASS
Band7	20MHz	QPSK	20850	1RB#0	20000~27000	-34.81	PASS
Band7	20MHz	16QAM	20850	1RB#0	0.009~0.15	-67.13	PASS
Band7	20MHz	16QAM	20850	1RB#0	0.15~30	-59.13	PASS
Band7	20MHz	16QAM	20850	1RB#0	30~1000	-52.62	PASS
Band7	20MHz	16QAM	20850	1RB#0	1000~20000	-27.64	PASS
Band7	20MHz	QPSK	21100	1RB#0	1000~20000	-28.59	PASS
Band7	20MHz	QPSK	21100	1RB#0	20000~27000	-35.77	PASS
Band7	20MHz	16QAM	21100	1RB#0	0.009~0.15	-68.62	PASS
Band7	20MHz	16QAM	21100	1RB#0	0.15~30	-54.41	PASS
Band7	20MHz	16QAM	21100	1RB#0	30~1000	-53.10	PASS
Band7	20MHz	16QAM	21100	1RB#0	1000~20000	-27.24	PASS
Band7	20MHz	16QAM	21100	1RB#0	20000~27000	-35.83	PASS
Band7	20MHz	QPSK	21350	1RB#0	0.009~0.15	-65.21	PASS
Band7	20MHz	QPSK	21350	1RB#0	0.15~30	-51.47	PASS
Band7	20MHz	QPSK	21350	1RB#0	30~1000	-52.09	PASS
Band7	20MHz	QPSK	21350	1RB#0	1000~20000	-28.38	PASS
Band7	20MHz	QPSK	21350	1RB#0	20000~27000	-35.30	PASS
Band7	20MHz	16QAM	21350	1RB#0	0.009~0.15	-66.17	PASS
Band7	20MHz	16QAM	21350	1RB#0	0.15~30	-57.17	PASS
Band7	20MHz	16QAM	21350	1RB#0	30~1000	-53.07	PASS
Band7	20MHz	16QAM	21350	1RB#0	1000~20000	-27.98	PASS
Band7	20MHz	16QAM	21350	1RB#0	20000~27000	-35.85	PASS
Band7	15MHz	16QAM	20825	1RB#0	0.009~0.15	-69.67	PASS
Band7	15MHz	16QAM	20825	1RB#0	0.15~30	-51.91	PASS
Band7	15MHz	16QAM	20825	1RB#0	30~1000	-52.62	PASS
Band7	15MHz	16QAM	20825	1RB#0	1000~20000	-28.28	PASS
Band7	15MHz	16QAM	21100	1RB#0	1000~20000	-28.34	PASS
Band7	20MHz	16QAM	20850	1RB#0	20000~27000	-36.11	PASS
Band7	20MHz	QPSK	21100	1RB#0	0.009~0.15	-66.24	PASS
Band7	20MHz	QPSK	21100	1RB#0	0.15~30	-57.60	PASS
Band7	20MHz	QPSK	21100	1RB#0	30~1000	-52.65	PASS

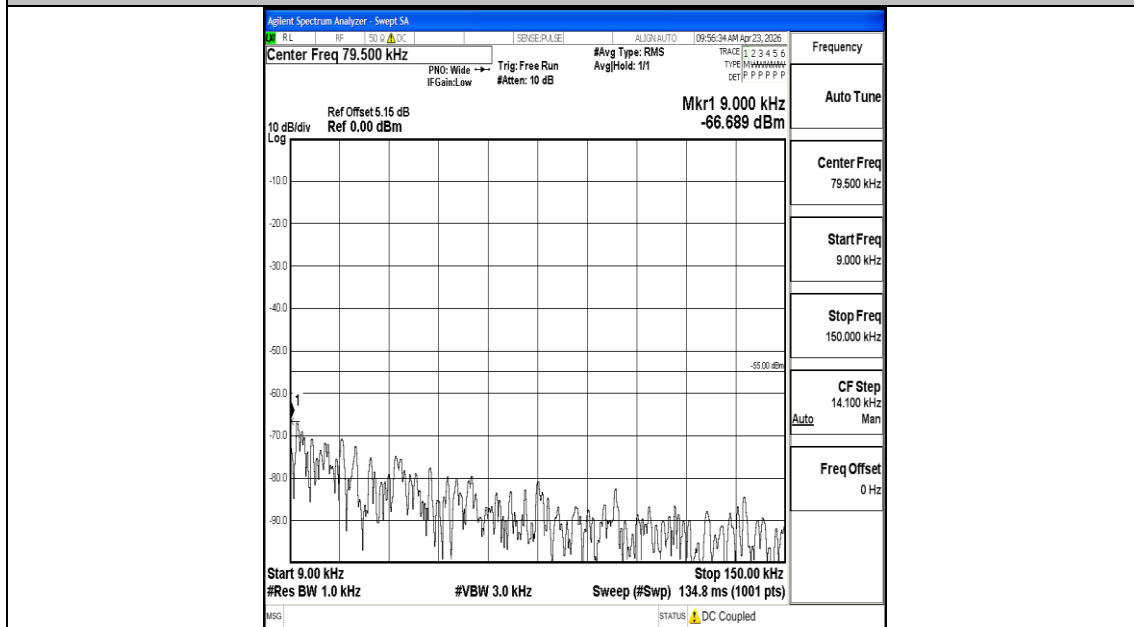
Test Graphs



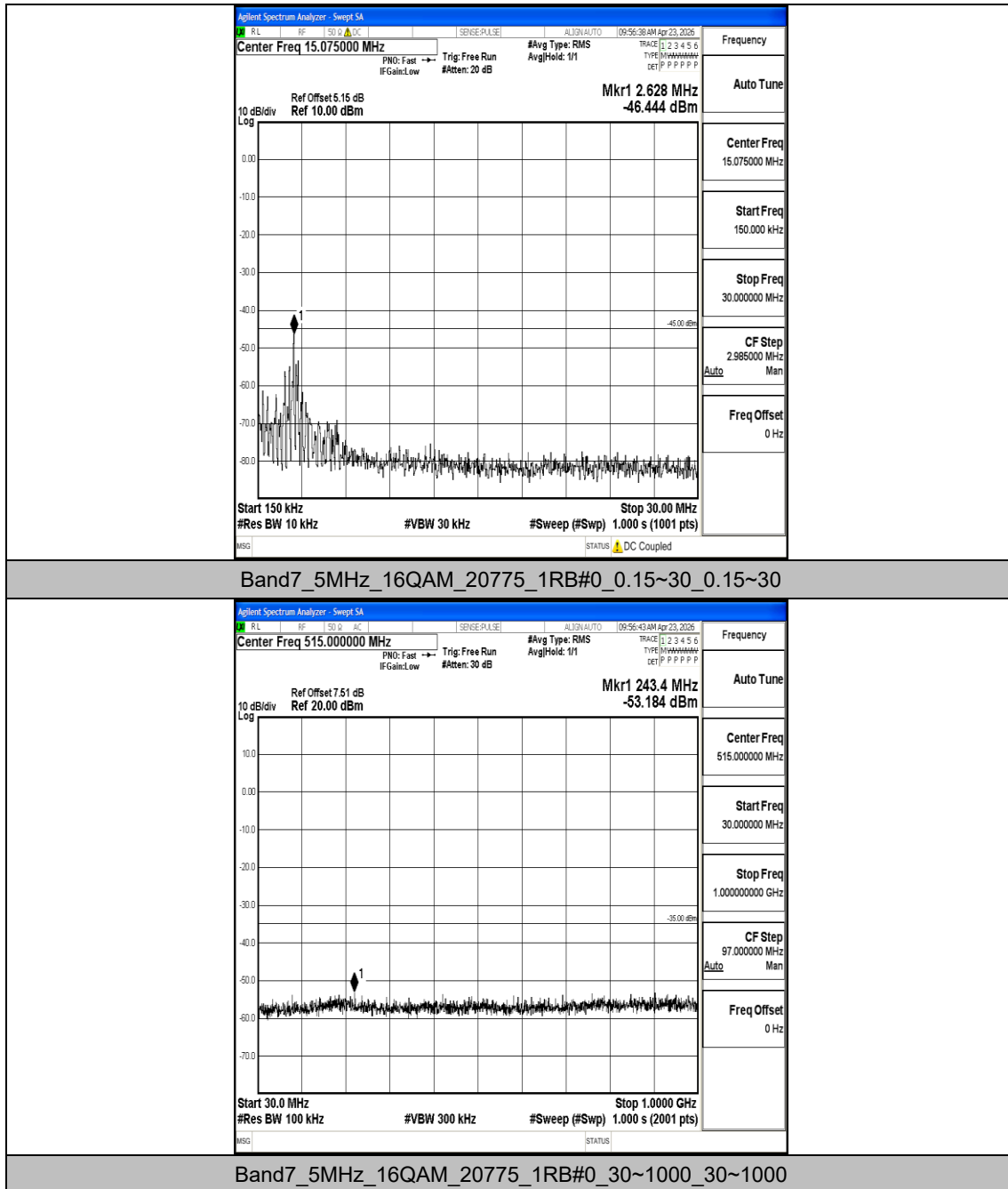


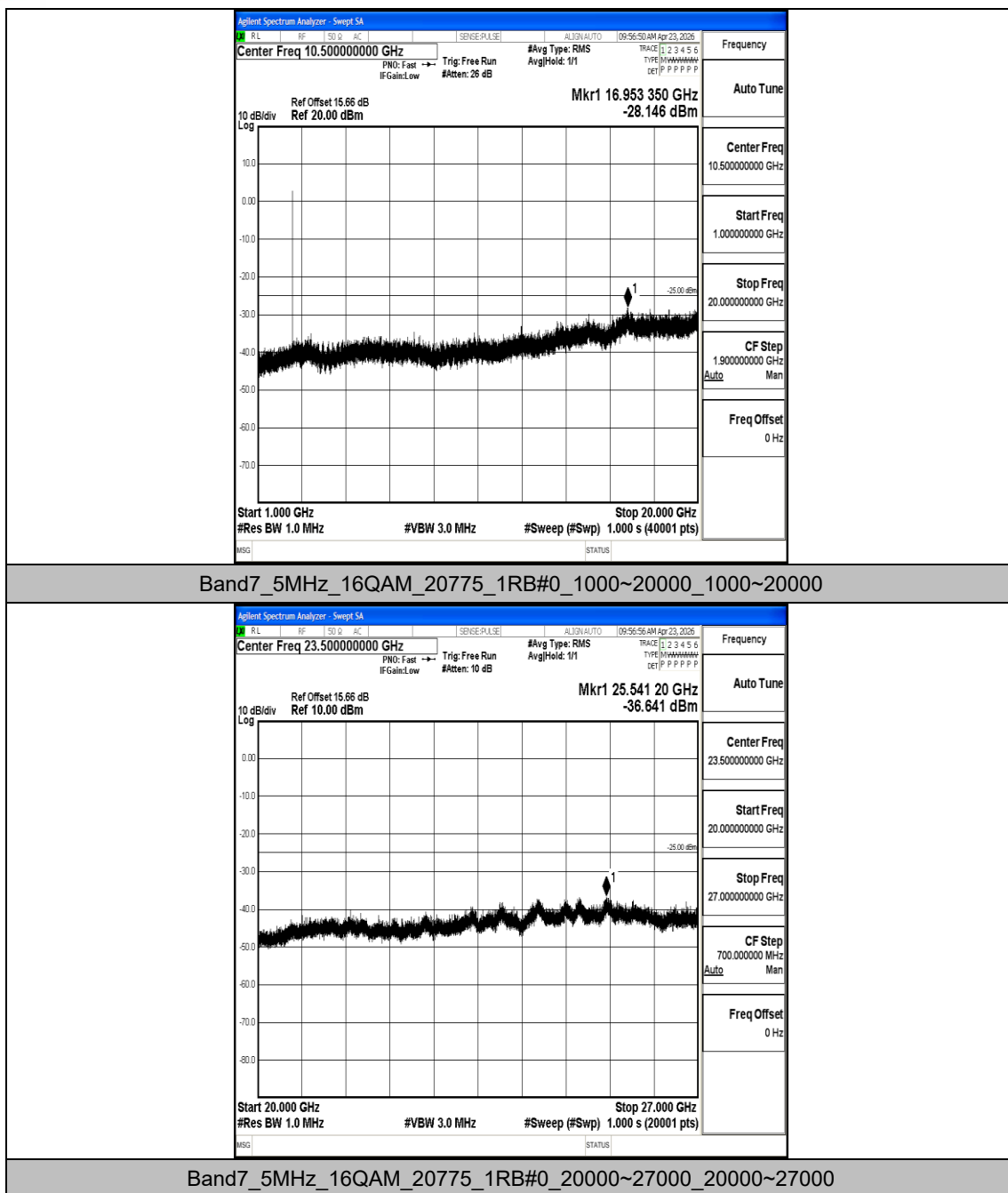


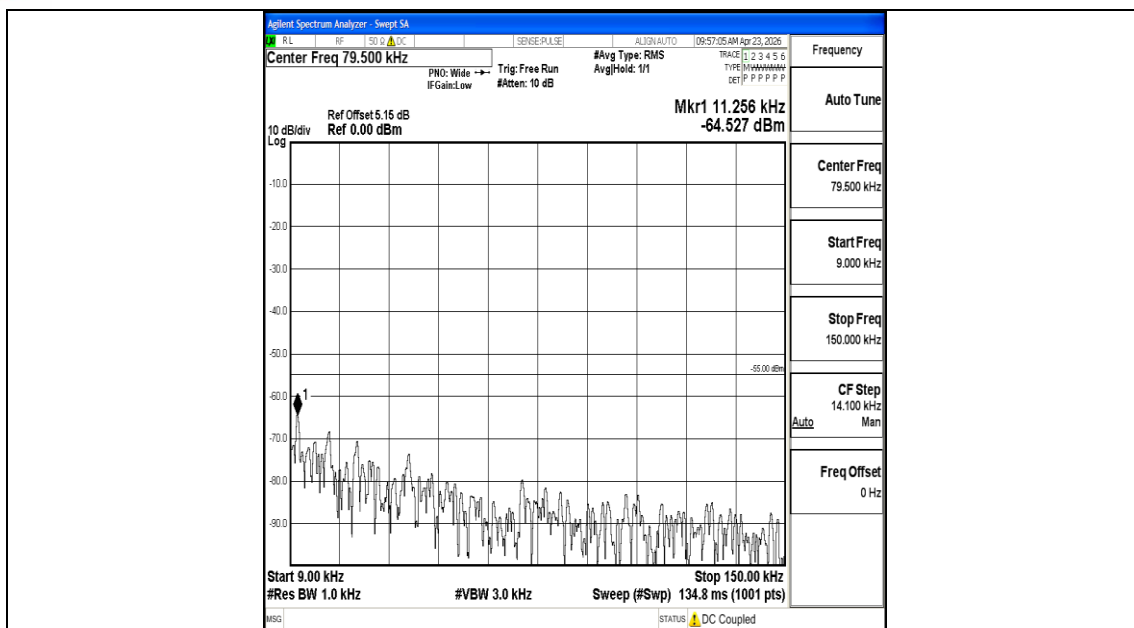
Band7_5MHz_QPSK_20775_1RB#0_20000~27000_20000~27000



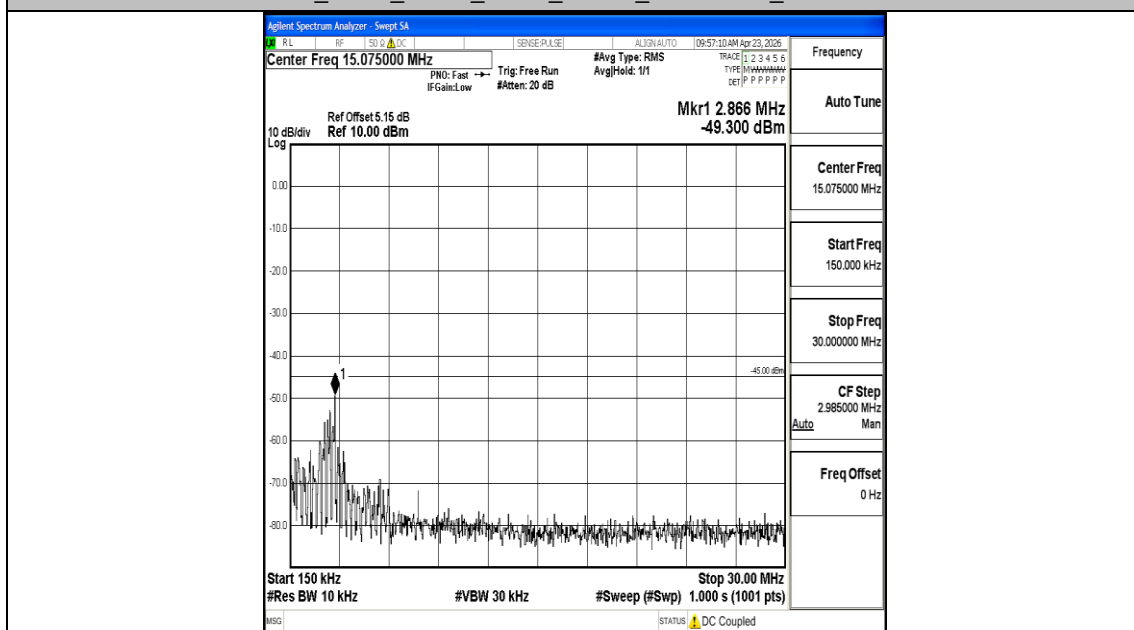
Band7_5MHz_16QAM_20775_1RB#0_0.009~0.15_0.009~0.15



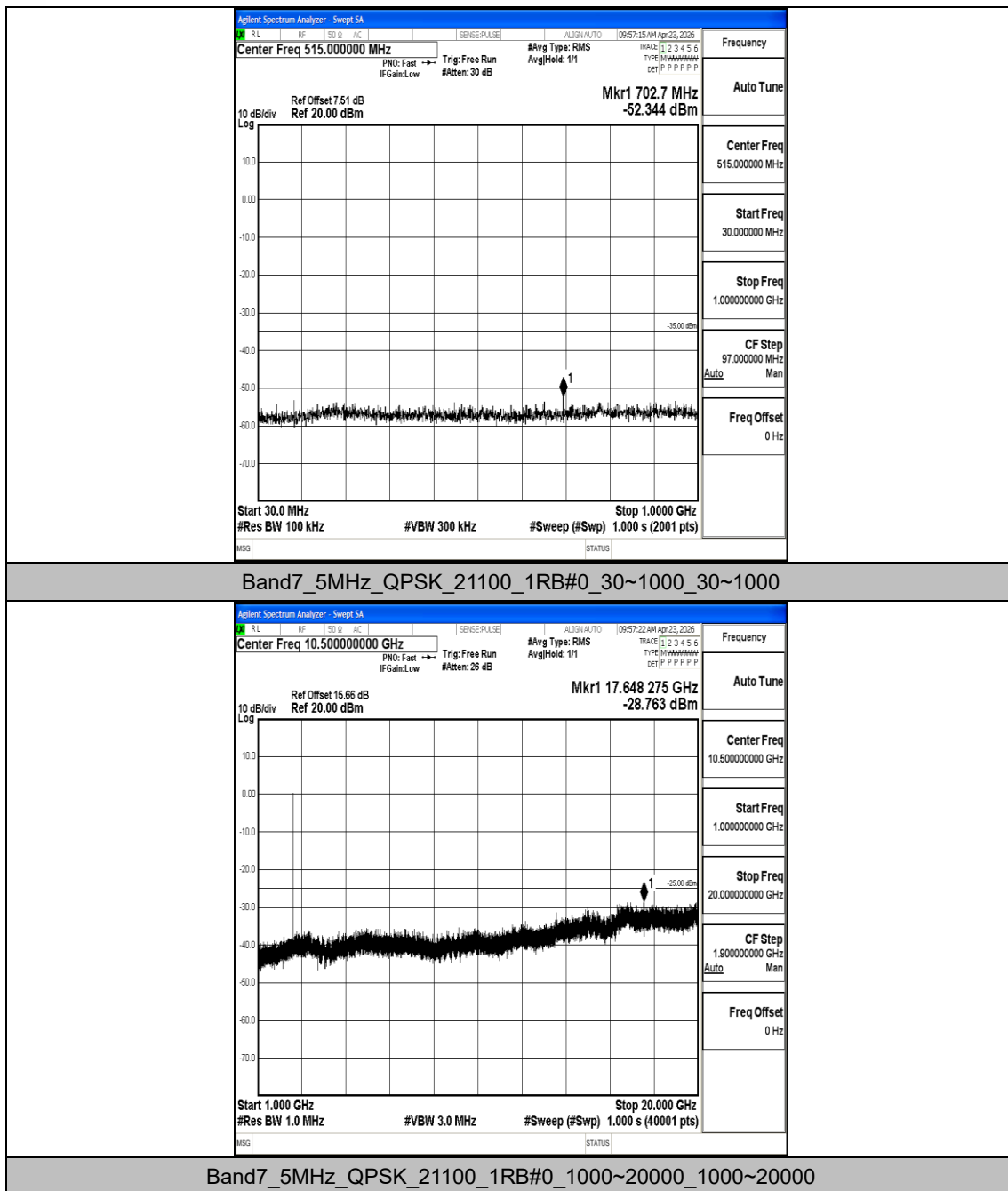


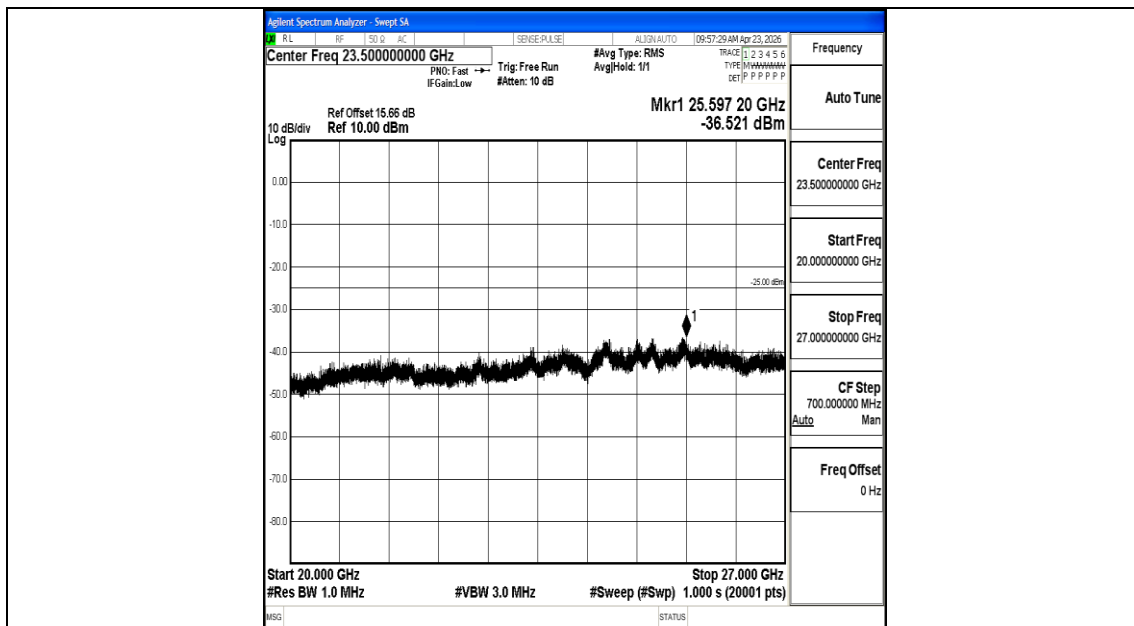


Band7_5MHz_QPSK_21100_1RB#0_0.009~0.15_0.009~0.15

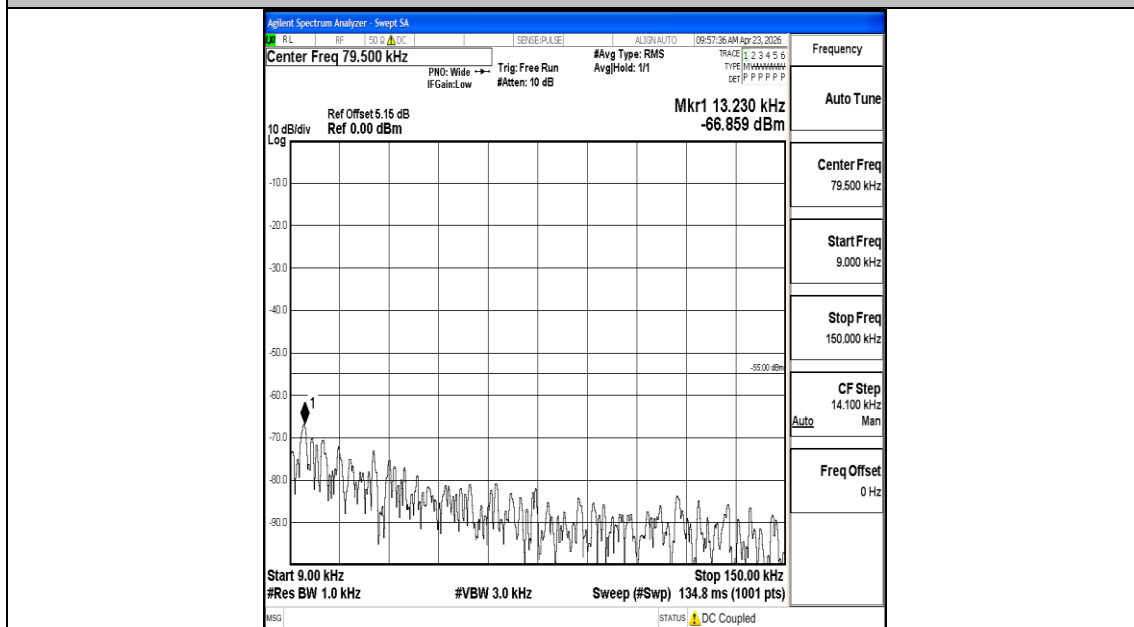


Band7_5MHz_QPSK_21100_1RB#0_0.15~30_0.15~30





Band7_5MHz_QPSK_21100_1RB#0_20000~27000_20000~27000



Band7_5MHz_16QAM_21100_1RB#0_0.009~0.15_0.009~0.15