

Appendix-A LTE Band 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.79	26.79	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.74	25.74	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.87	25.87	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.69	24.69	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.84	25.84	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.24	25.24	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.35	25.35	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.79	23.79	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.95	25.95	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.02	26.02	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.25	26.25	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.1	25.1	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.17	25.17	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.53	25.53	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.55	25.55	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.15	24.15	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.55	25.55	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.56	25.56	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.69	25.69	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.51	24.51	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.96	24.96	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.99	24.99	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.04	25.04	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.72	23.72	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.21	26.21	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.91	25.91	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.19	26.19	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.81	24.81	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.51	25.51	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.29	25.29	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.42	25.42	33.00	PASS
Band7	10MHz	16QAM	20800	27RB#0	20.65	23.65	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.01	26.01	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.98	25.98	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.2	26.2	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.91	24.91	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.34	25.34	33.00	PASS

Band7	10MHz	16QAM	21100	1RB#24	22.35	25.35	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.52	25.52	33.00	PASS
Band7	10MHz	16QAM	21100	27RB#0	20.93	23.93	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.66	25.66	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.53	25.53	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.62	25.62	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.41	24.41	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.72	24.72	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.83	24.83	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.96	24.96	33.00	PASS
Band7	10MHz	16QAM	21400	27RB#0	20.45	23.45	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.37	26.37	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.16	26.16	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.4	26.4	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.02	25.02	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.31	25.31	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.52	25.52	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.68	25.68	33.00	PASS
Band7	15MHz	16QAM	20825	27RB#0	20.72	23.72	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.18	26.18	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.12	26.12	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.34	26.34	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.16	25.16	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.47	25.47	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.52	25.52	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.44	25.44	33.00	PASS
Band7	15MHz	16QAM	21100	27RB#0	21.19	24.19	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.15	26.15	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.65	25.65	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.69	25.69	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.72	24.72	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.36	25.36	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.05	25.05	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.17	25.17	33.00	PASS
Band7	15MHz	16QAM	21375	27RB#0	21	24	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.43	26.43	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.19	26.19	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.32	26.32	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.91	24.91	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.59	25.59	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.3	25.3	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.67	25.67	33.00	PASS
Band7	20MHz	16QAM	20850	27RB#0	20.64	23.64	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.14	26.14	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.09	26.09	33.00	PASS

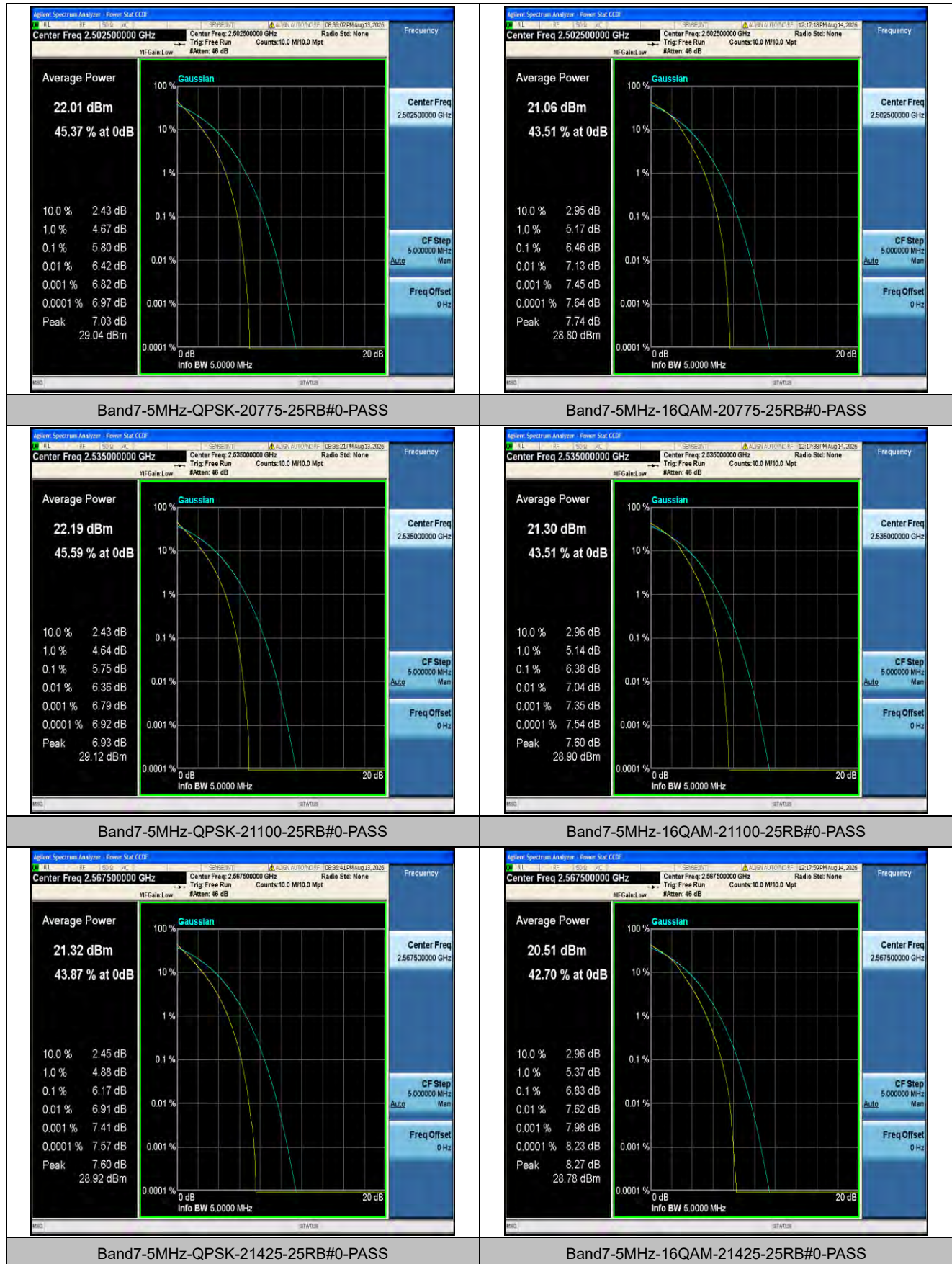
Band7	20MHz	QPSK	21100	1RB#99	23.14	26.14	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.07	25.07	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.31	25.31	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.38	25.38	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.54	25.54	33.00	PASS
Band7	20MHz	16QAM	21100	27RB#0	21.05	24.05	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.2	26.2	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.76	25.76	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.54	25.54	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.81	24.81	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.39	25.39	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.25	25.25	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.07	25.07	33.00	PASS
Band7	20MHz	16QAM	21350	27RB#0	21.08	24.08	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.80	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.46	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.75	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.38	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	6.17	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.83	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.62	13	PASS
Band7	10MHz	16QAM	20800	27RB#0	6.47	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.70	13	PASS
Band7	10MHz	16QAM	21100	27RB#0	6.37	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	6.06	13	PASS
Band7	10MHz	16QAM	21400	27RB#0	6.80	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.18	13	PASS
Band7	15MHz	16QAM	20825	27RB#0	6.28	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.29	13	PASS
Band7	15MHz	16QAM	21100	27RB#0	6.21	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.48	13	PASS
Band7	15MHz	16QAM	21375	27RB#0	6.39	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.37	13	PASS
Band7	20MHz	16QAM	20850	27RB#0	6.41	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.52	13	PASS
Band7	20MHz	16QAM	21100	27RB#0	6.32	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.75	13	PASS
Band7	20MHz	16QAM	21350	27RB#0	6.28	13	PASS

Test Graphs





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



Band7-10MHz-16QAM-20800-27RB#0-PASS



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



Band7-10MHz-16QAM-21100-27RB#0-PASS



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



Band7-10MHz-16QAM-21400-27RB#0-PASS



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



Band7-15MHz-16QAM-20825-27RB#0-PASS



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



Band7-15MHz-16QAM-21100-27RB#0-PASS



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



Band7-15MHz-16QAM-21375-27RB#0-PASS



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



Band7-20MHz-16QAM-20850-27RB#0-PASS



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



Band7-20MHz-16QAM-21100-27RB#0-PASS



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



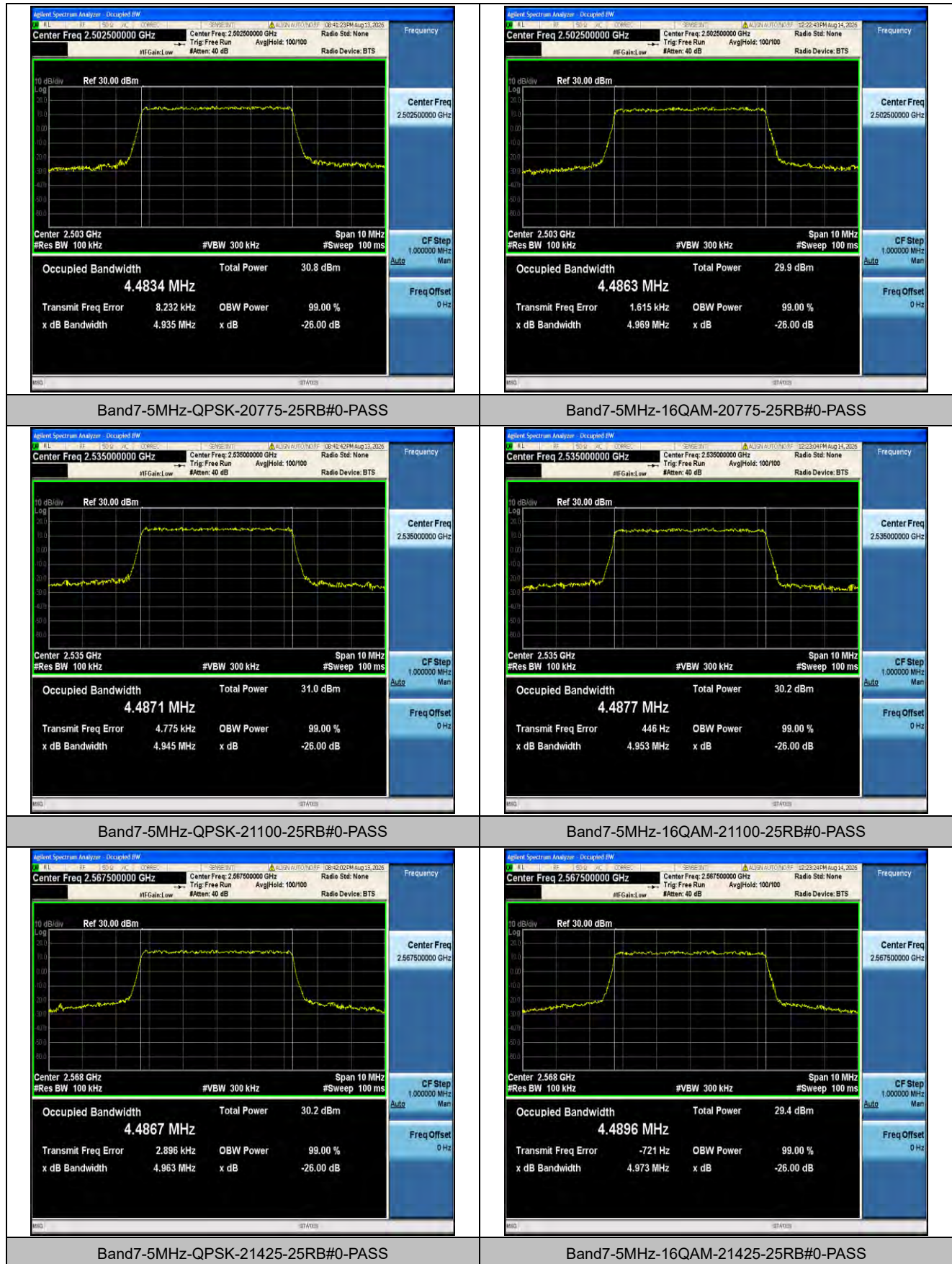
Band7-20MHz-16QAM-21350-27RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4834	4.935	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4863	4.969	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4871	4.945	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4877	4.953	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4867	4.963	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4896	4.973	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9717	9.712	PASS
Band7	10MHz	16QAM	20800	27RB#0	4.9405	5.631	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9697	9.764	PASS
Band7	10MHz	16QAM	21100	27RB#0	4.9461	5.637	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9824	9.714	PASS
Band7	10MHz	16QAM	21400	27RB#0	4.9491	5.636	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.453	14.50	PASS
Band7	15MHz	16QAM	20825	27RB#0	5.0654	5.860	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.463	14.54	PASS
Band7	15MHz	16QAM	21100	27RB#0	5.0585	5.863	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.476	14.47	PASS
Band7	15MHz	16QAM	21375	27RB#0	5.0664	5.910	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.927	19.13	PASS
Band7	20MHz	16QAM	20850	27RB#0	5.1814	6.053	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.949	19.11	PASS
Band7	20MHz	16QAM	21100	27RB#0	5.2129	6.160	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.959	19.15	PASS
Band7	20MHz	16QAM	21350	27RB#0	5.1901	6.140	PASS

Test Graphs





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



Band7-10MHz-16QAM-20800-27RB#0-PASS



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



Band7-10MHz-16QAM-21100-27RB#0-PASS



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



Band7-10MHz-16QAM-21400-27RB#0-PASS



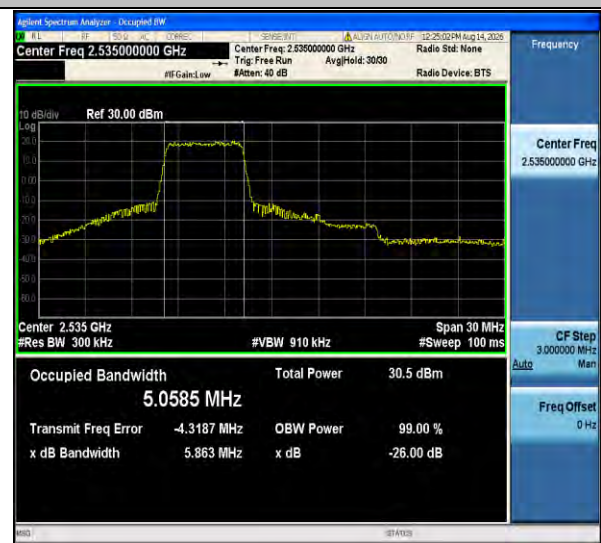
Band7-15MHz-QPSK-20825-75RB#0-PASS



Band7-15MHz-16QAM-20825-27RB#0-PASS



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



Band7-15MHz-16QAM-21100-27RB#0-PASS



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



Band7-15MHz-16QAM-21375-27RB#0-PASS



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



Band7-20MHz-16QAM-20850-27RB#0-PASS



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



Band7-20MHz-16QAM-21100-27RB#0-PASS



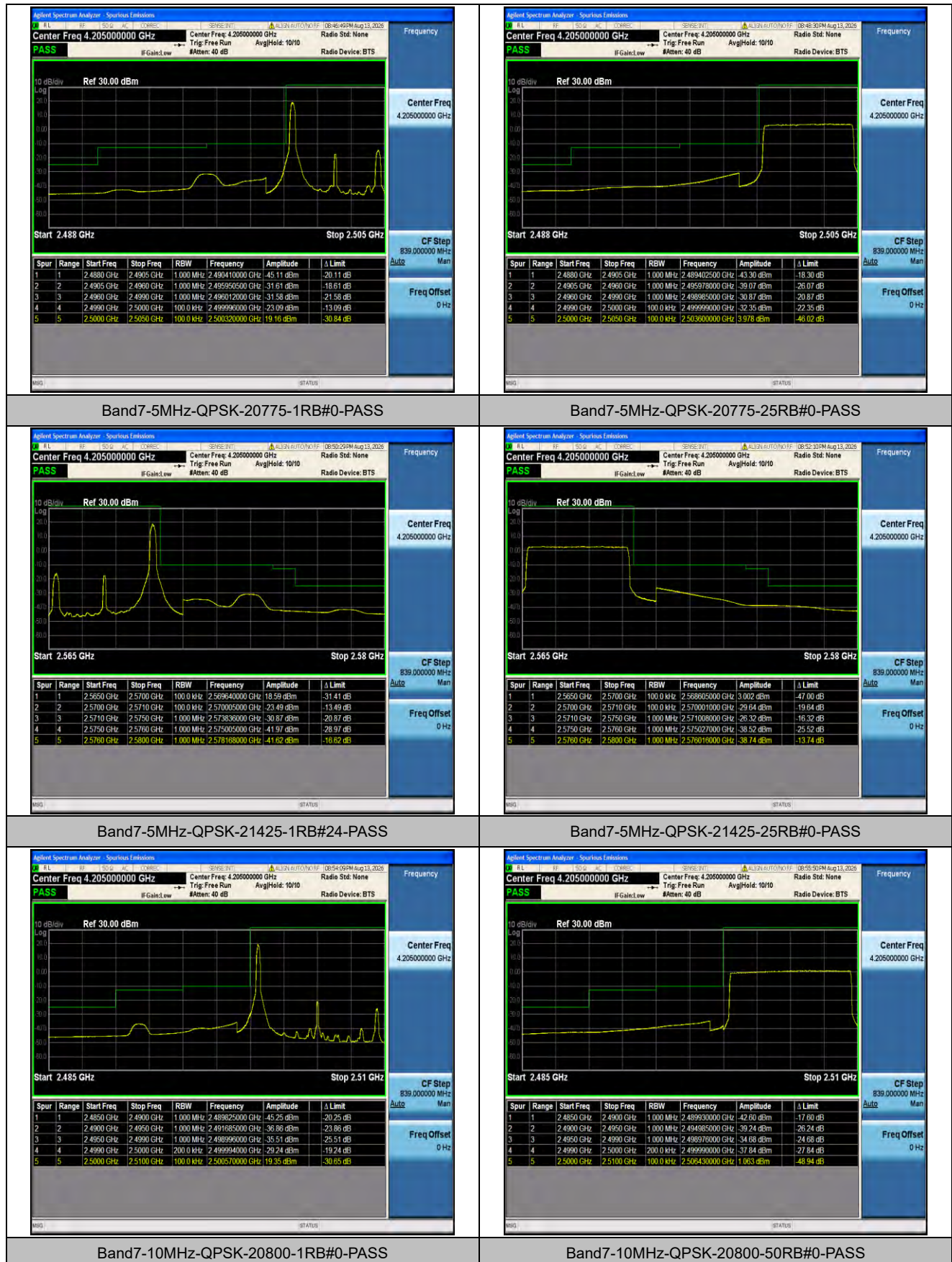
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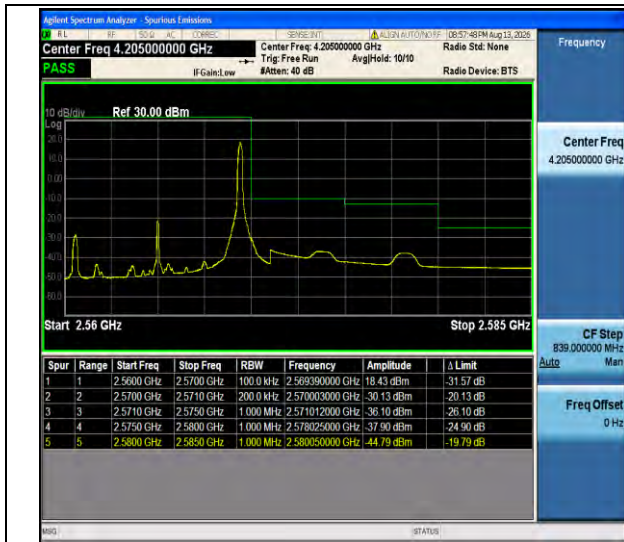


Band7-20MHz-16QAM-21350-27RB#0-PASS

Band Edge

Test Graphs

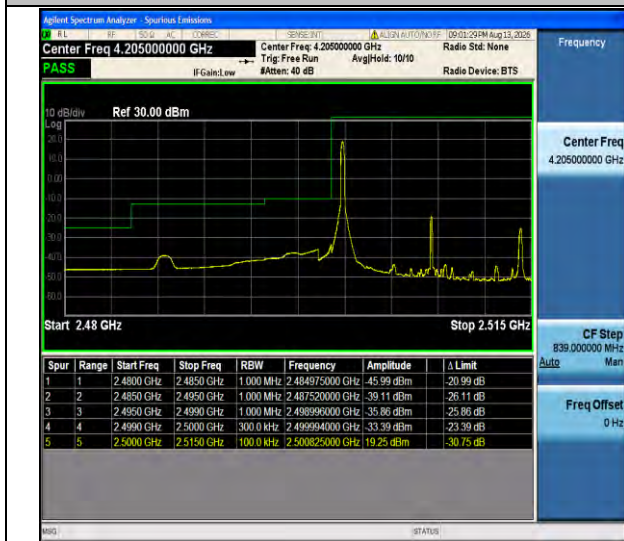




Band7-10MHz-QPSK-21400-1RB#49-PASS



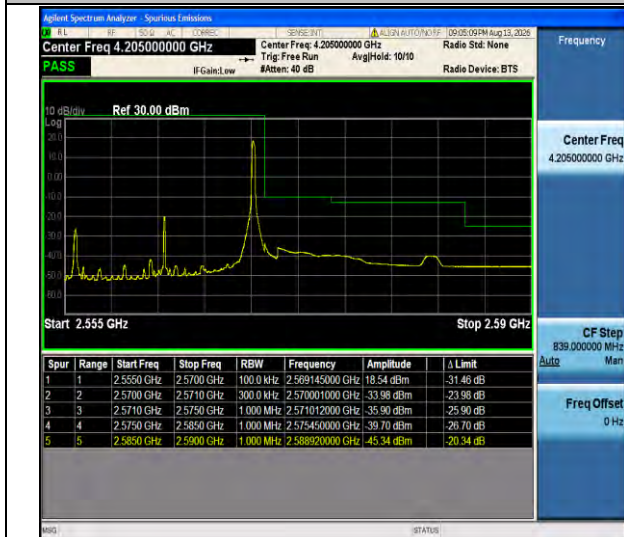
Band7-10MHz-QPSK-21400-50RB#0-PASS



Band7-15MHz-QPSK-20825-1RB#0-PASS



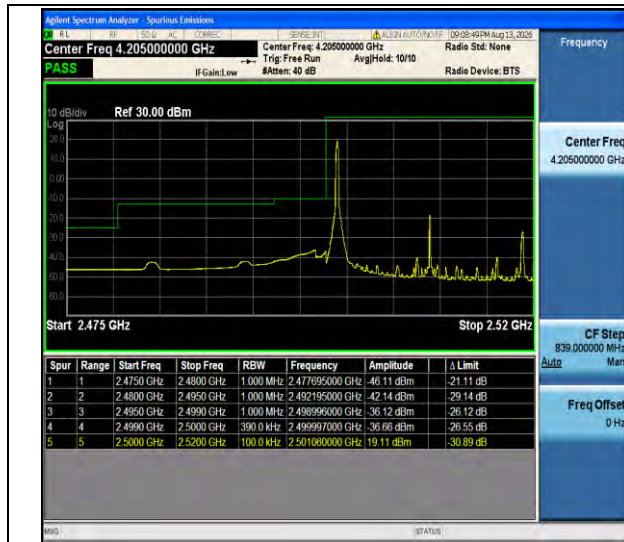
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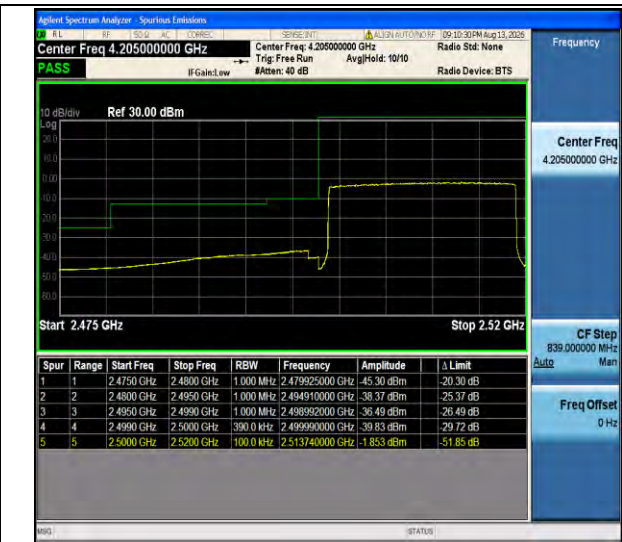
Band7-15MHz-QPSK-21375-1RB#74-PASS



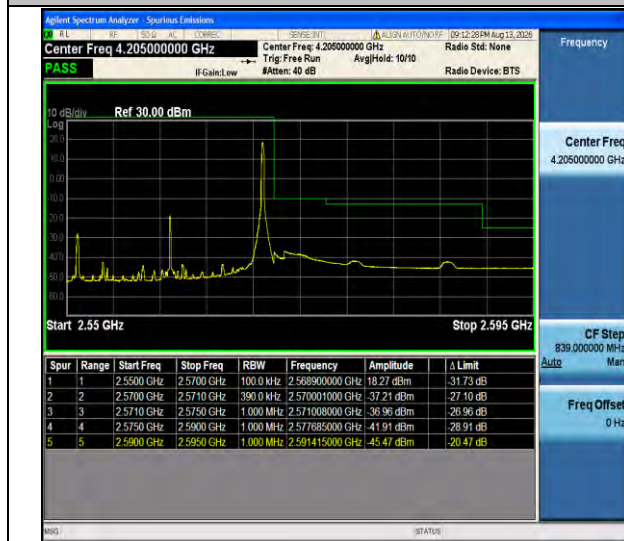
Band7-15MHz-QPSK-21375-75RB#0-PASS



Band7-20MHz-QPSK-20850-1RB#0-PASS



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



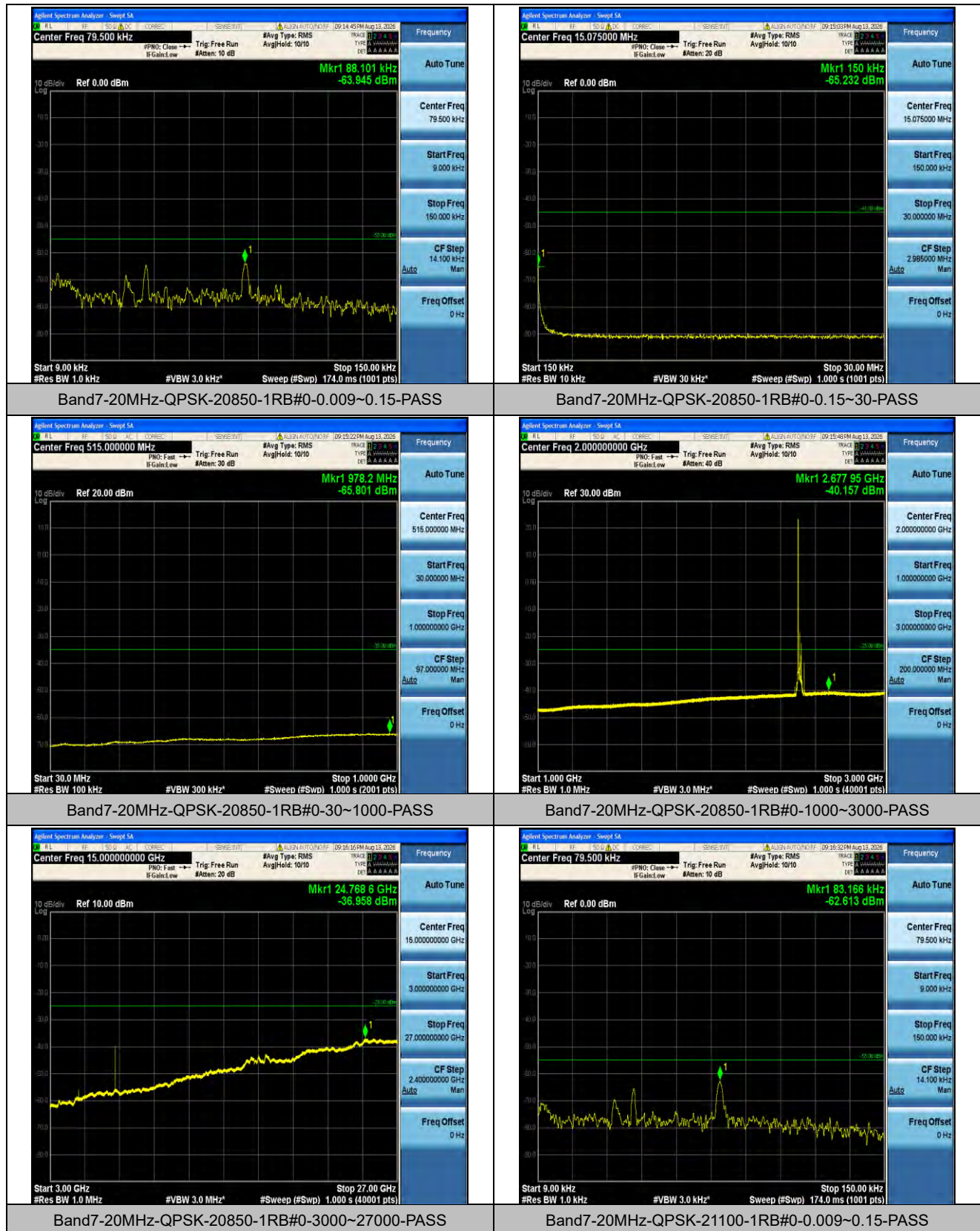
Band7-20MHz-QPSK-21350-1RB#99-PASS

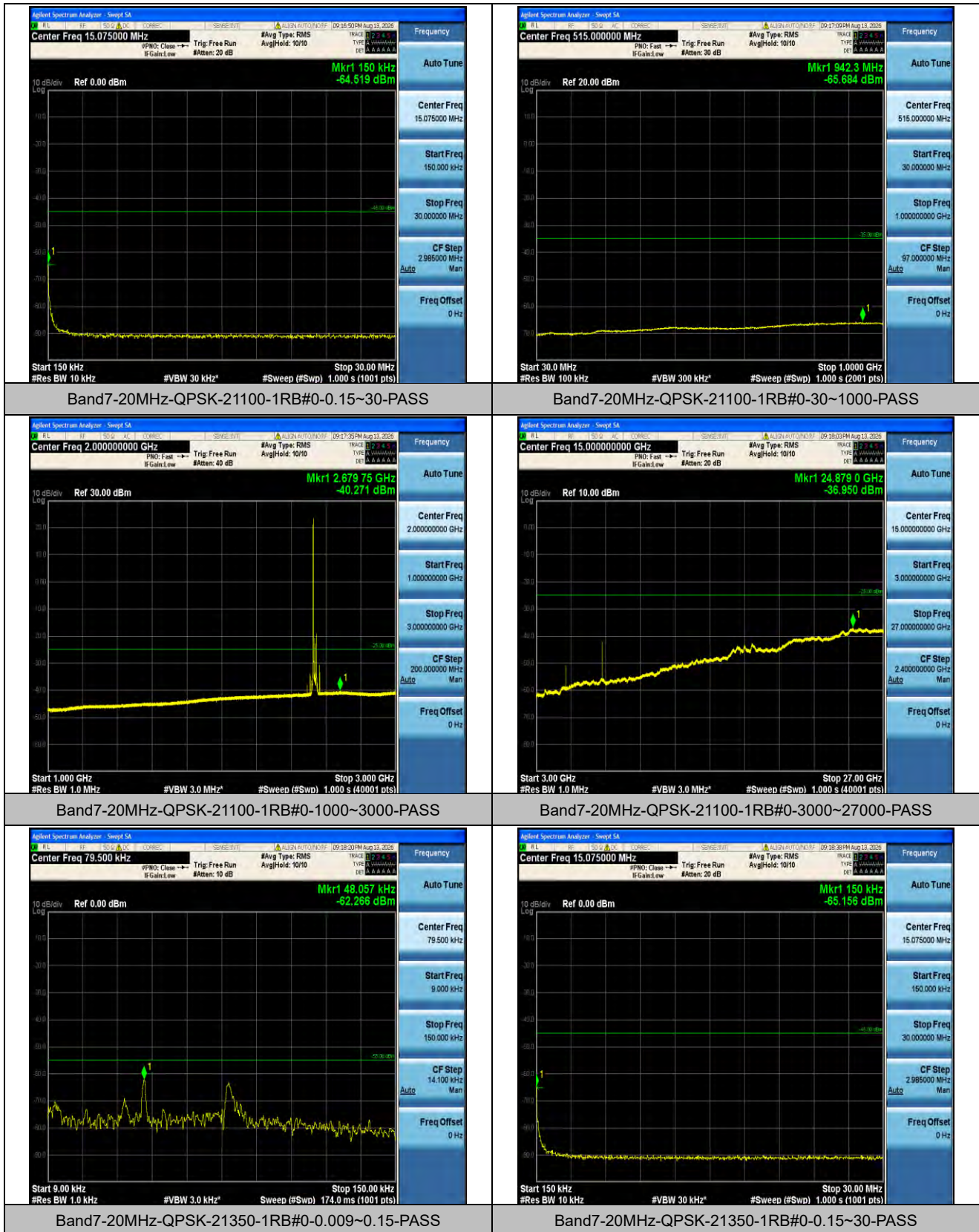


Band7-20MHz-QPSK-21350-100RB#0-PASS

Conducted Spurious Emission

Test Graphs







Band7-20MHz-QPSK-21350-1RB#0-30~1000-PASS



Band7-20MHz-QPSK-21350-1RB#0-1000~3000-PASS



Band7-20MHz-QPSK-21350-1RB#0-3000~27000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-5.50	-0.002170	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-15.20	-0.005996	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-5.10	-0.002012	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-0.50	-0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	3.40	0.001341	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	0.80	0.000316	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-6.50	-0.002564	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-22.80	-0.008994	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	5.90	0.002327	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	1.30	0.000513	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-9.00	-0.003550	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	1.40	0.000552	PASS

~The End~