

Appendix-A LTE Band 30

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)
Band30	5MHz	QPSK	27685	1RB#0	21.25	22.23
Band30	5MHz	QPSK	27685	1RB#12	21.33	22.31
Band30	5MHz	QPSK	27685	1RB#24	21.30	22.28
Band30	5MHz	QPSK	27685	25RB#0	21.30	22.28
Band30	5MHz	16QAM	27685	1RB#0	21.29	22.27
Band30	5MHz	16QAM	27685	1RB#12	21.70	22.68
Band30	5MHz	16QAM	27685	1RB#24	21.40	22.38
Band30	5MHz	16QAM	27685	25RB#0	21.30	22.28
Band30	5MHz	64QAM	27685	1RB#0	21.85	22.83
Band30	5MHz	64QAM	27685	1RB#12	21.73	22.71
Band30	5MHz	64QAM	27685	1RB#24	21.64	22.62
Band30	5MHz	64QAM	27685	25RB#0	21.69	22.67
Band30	5MHz	256QAM	27685	1RB#0	21.75	22.73
Band30	5MHz	256QAM	27685	1RB#12	21.68	22.66
Band30	5MHz	256QAM	27685	1RB#24	21.75	22.73
Band30	5MHz	256QAM	27685	25RB#0	21.74	22.72
Band30	5MHz	QPSK	27710	1RB#0	21.21	22.19
Band30	5MHz	QPSK	27710	1RB#12	21.33	22.31
Band30	5MHz	QPSK	27710	1RB#24	21.21	22.19
Band30	5MHz	QPSK	27710	25RB#0	21.30	22.28
Band30	5MHz	16QAM	27710	1RB#0	21.62	22.6
Band30	5MHz	16QAM	27710	1RB#12	21.45	22.43
Band30	5MHz	16QAM	27710	1RB#24	21.43	22.41
Band30	5MHz	16QAM	27710	25RB#0	21.20	22.18
Band30	5MHz	64QAM	27710	1RB#0	21.93	22.91
Band30	5MHz	64QAM	27710	1RB#12	22.01	22.99
Band30	5MHz	64QAM	27710	1RB#24	21.79	22.77
Band30	5MHz	64QAM	27710	25RB#0	21.62	22.6
Band30	5MHz	256QAM	27710	1RB#0	21.86	22.84
Band30	5MHz	256QAM	27710	1RB#12	21.85	22.83
Band30	5MHz	256QAM	27710	1RB#24	21.52	22.5
Band30	5MHz	256QAM	27710	25RB#0	21.68	22.66
Band30	5MHz	QPSK	27735	1RB#0	21.33	22.31
Band30	5MHz	QPSK	27735	1RB#12	21.35	22.33
Band30	5MHz	QPSK	27735	1RB#24	21.09	22.07
Band30	5MHz	QPSK	27735	25RB#0	21.28	22.26
Band30	5MHz	16QAM	27735	1RB#0	21.61	22.59

Band30	5MHz	16QAM	27735	1RB#12	21.20	22.18
Band30	5MHz	16QAM	27735	1RB#24	21.46	22.44
Band30	5MHz	16QAM	27735	25RB#0	21.34	22.32
Band30	5MHz	64QAM	27735	1RB#0	21.84	22.82
Band30	5MHz	64QAM	27735	1RB#12	21.99	22.97
Band30	5MHz	64QAM	27735	1RB#24	21.51	22.49
Band30	5MHz	64QAM	27735	25RB#0	21.75	22.73
Band30	5MHz	256QAM	27735	1RB#0	21.90	22.88
Band30	5MHz	256QAM	27735	1RB#12	21.95	22.93
Band30	5MHz	256QAM	27735	1RB#24	21.37	22.35
Band30	5MHz	256QAM	27735	25RB#0	21.75	22.73
Band30	10MHz	QPSK	27710	1RB#0	21.16	22.14
Band30	10MHz	QPSK	27710	1RB#24	21.24	22.22
Band30	10MHz	QPSK	27710	1RB#49	21.13	22.11
Band30	10MHz	QPSK	27710	50RB#0	21.41	22.39
Band30	10MHz	16QAM	27710	1RB#0	21.70	22.68
Band30	10MHz	16QAM	27710	1RB#24	21.75	22.73
Band30	10MHz	16QAM	27710	1RB#49	21.47	22.45
Band30	10MHz	16QAM	27710	50RB#0	21.34	22.32
Band30	10MHz	64QAM	27710	1RB#0	21.85	22.83
Band30	10MHz	64QAM	27710	1RB#24	21.65	22.63
Band30	10MHz	64QAM	27710	1RB#49	21.89	22.87
Band30	10MHz	64QAM	27710	50RB#0	21.70	22.68
Band30	10MHz	256QAM	27710	1RB#0	21.69	22.67
Band30	10MHz	256QAM	27710	1RB#24	21.77	22.75
Band30	10MHz	256QAM	27710	1RB#49	21.66	22.64
Band30	10MHz	256QAM	27710	50RB#0	21.70	22.68

Maximum EIRP and Maximum PSD

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	21.83	22.81	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	21.97	22.95	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	21.94	22.92	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.03	22.01	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.69	23.67	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.53	23.51	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.38	23.36	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.18	22.16	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	22.44	23.42	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	22.32	23.3	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	22.31	23.29	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	21.24	22.22	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	21.85	22.83	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	22.28	23.26	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	22.56	23.54	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	21.23	22.21	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	21.84	22.82	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	21.88	22.86	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	21.95	22.93	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.01	21.99	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.75	23.73	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.42	23.4	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.15	23.13	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.07	22.05	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	22.40	23.38	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	22.47	23.45	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	22.21	23.19	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	21.08	22.06	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	22.50	23.48	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	22.53	23.51	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	22.24	23.22	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	21.17	22.15	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	21.86	22.84	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.06	23.04	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.01	22.99	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.03	22.01	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.52	23.5	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.49	23.47	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.60	23.58	23.98	PASS

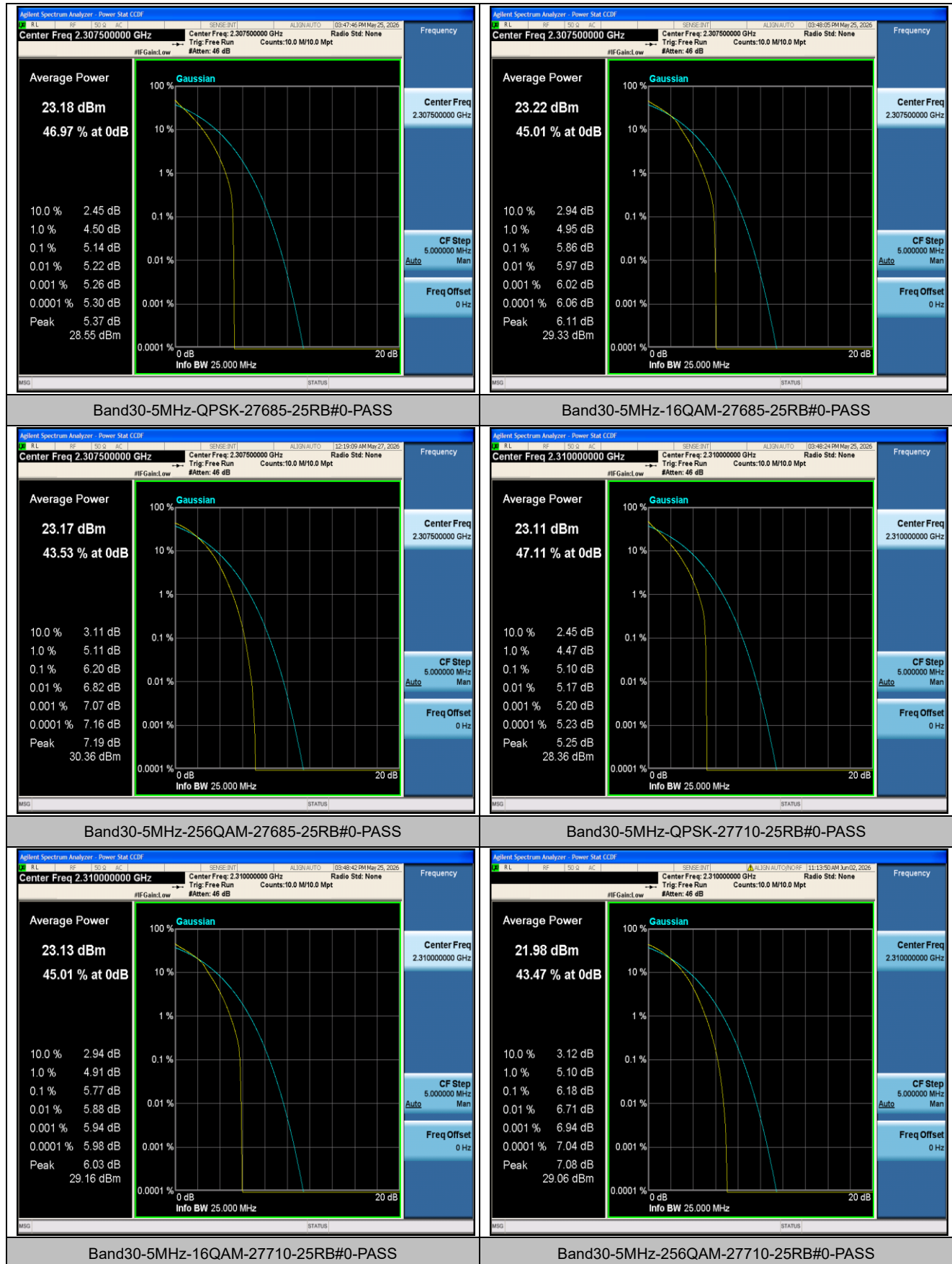
Band30	5MHz	16QAM	27735	25RB#0	21.11	22.09	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	22.34	23.32	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	22.26	23.24	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	22.24	23.22	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	21.23	22.21	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	22.35	23.33	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	22.34	23.32	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	22.30	23.28	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	21.13	22.11	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.14	23.12	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	21.89	22.87	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.87	22.85	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	19.19	20.17	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.20	23.18	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.32	23.3	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.45	23.43	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	19.27	20.25	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	22.14	23.12	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	22.39	23.37	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	22.30	23.28	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.22	20.2	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	21.85	22.83	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	22.22	23.2	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	22.09	23.07	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	19.28	20.26	23.98	PASS

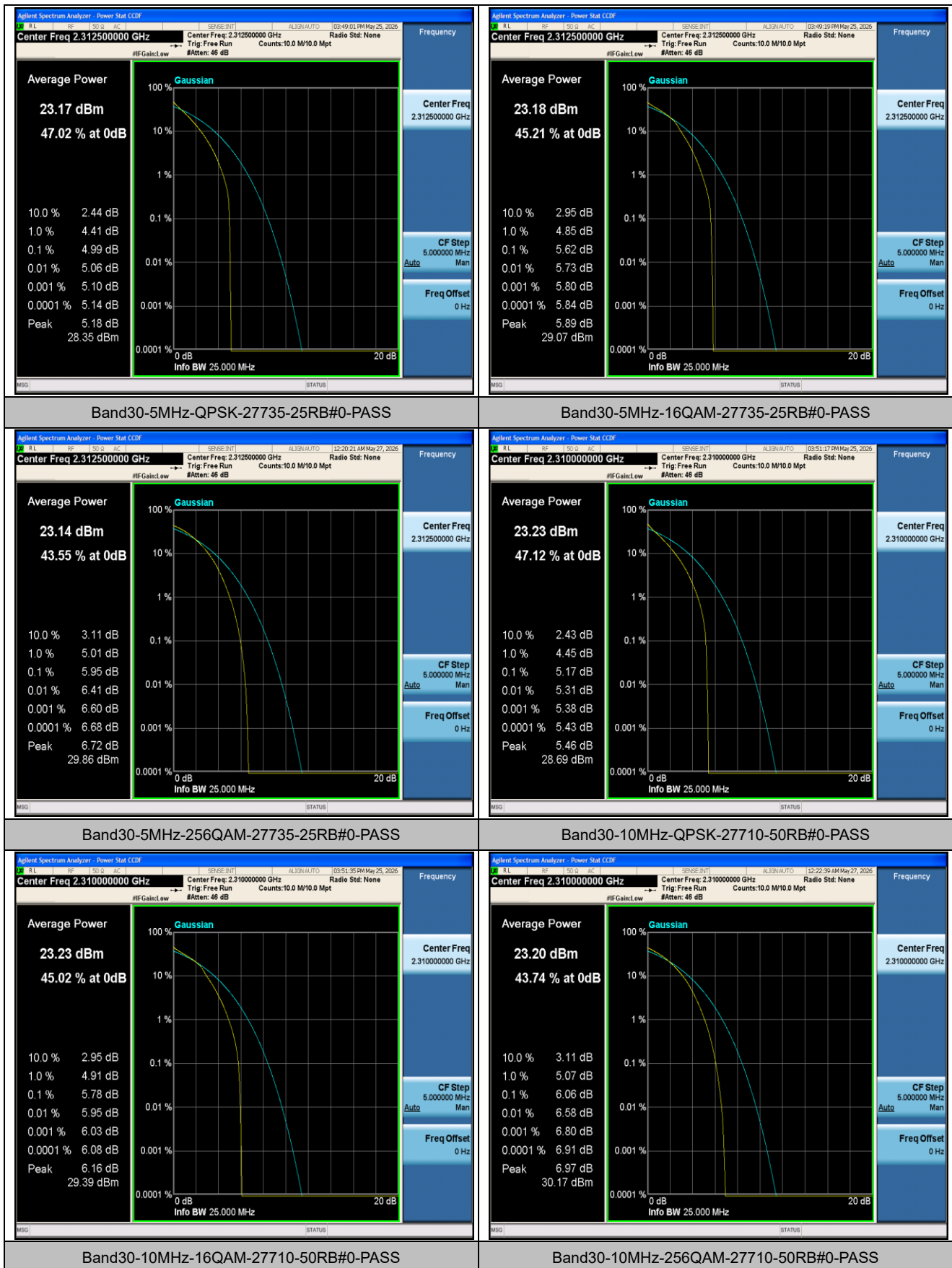
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	5.14	13	PASS
Band30	5MHz	16QAM	27685	25RB#0	5.86	13	PASS
Band30	5MHz	256QAM	27685	25RB#0	6.20	13	PASS
Band30	5MHz	QPSK	27710	25RB#0	5.10	13	PASS
Band30	5MHz	16QAM	27710	25RB#0	5.77	13	PASS
Band30	5MHz	256QAM	27710	25RB#0	6.18	13	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.99	13	PASS
Band30	5MHz	16QAM	27735	25RB#0	5.62	13	PASS
Band30	5MHz	256QAM	27735	25RB#0	5.95	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.17	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.78	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.06	13	PASS

Test Graphs



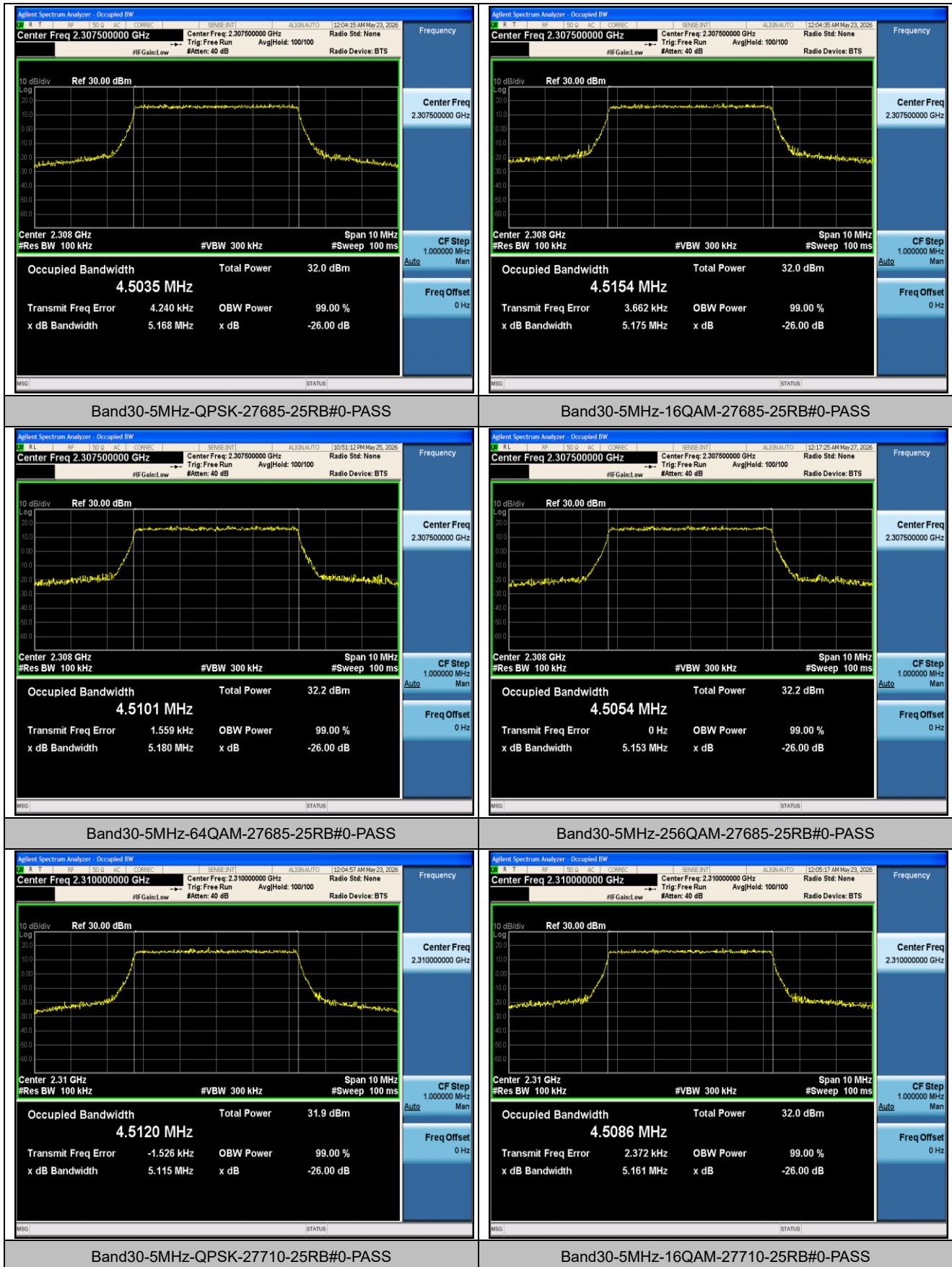


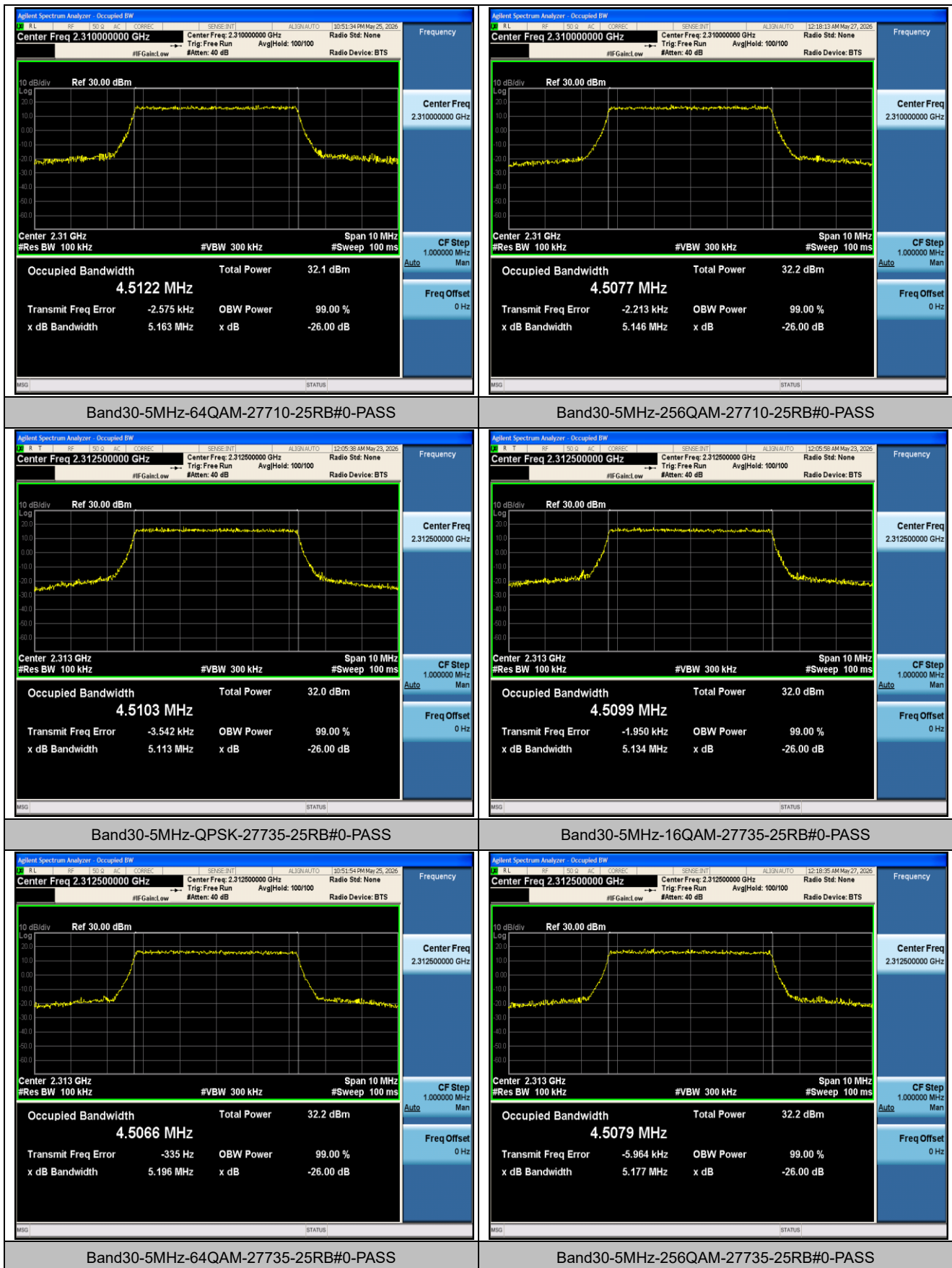
26dB Bandwidth and Occupied Bandwidth

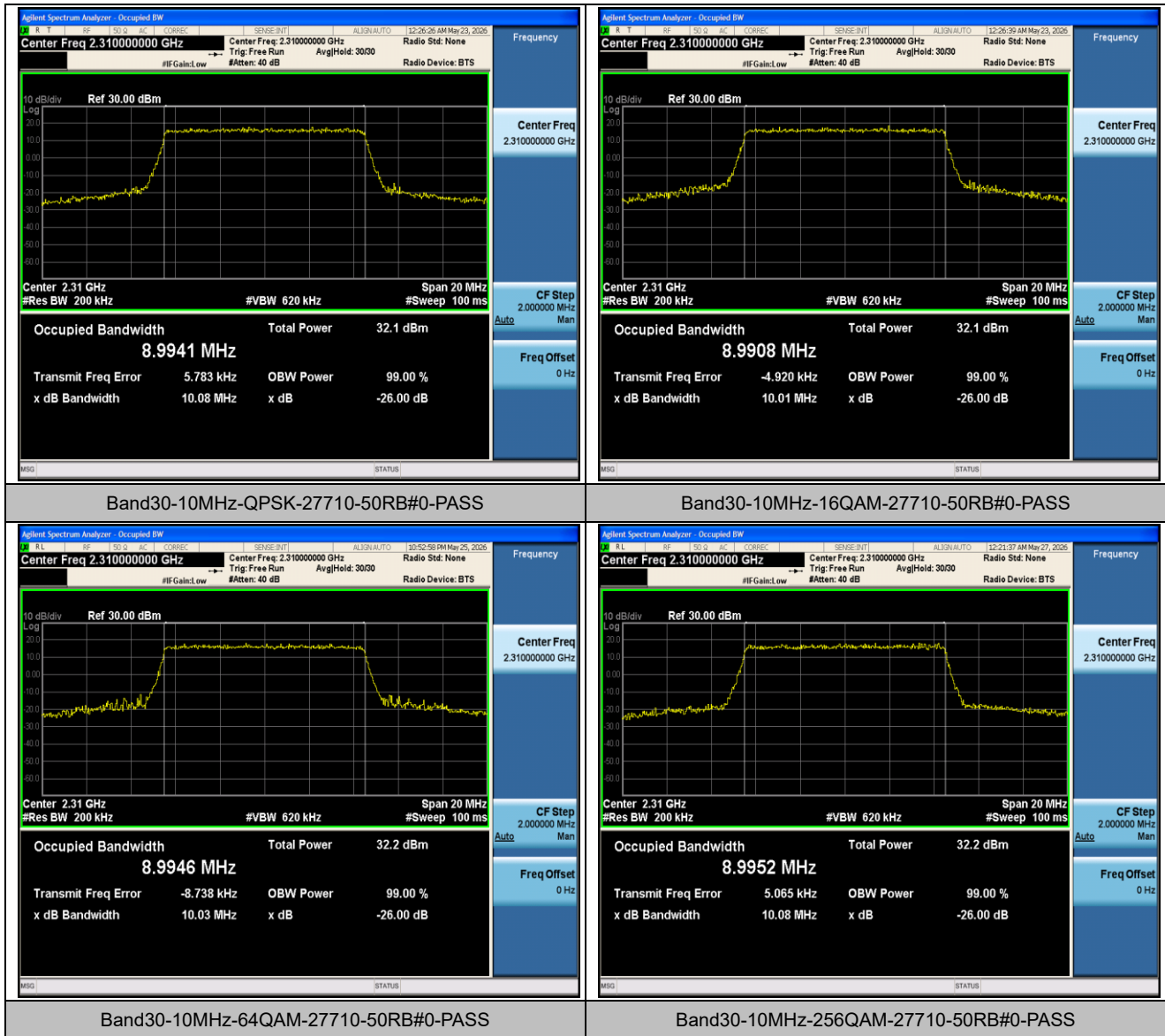
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.5035	5.168	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5154	5.175	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.5101	5.180	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.5054	5.153	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.5120	5.115	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.5086	5.161	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.5122	5.163	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.5077	5.146	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.5103	5.113	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.5099	5.134	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.5066	5.196	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.5079	5.177	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.9941	10.08	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.9908	10.01	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.9946	10.03	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.9952	10.08	PASS

Test Graphs





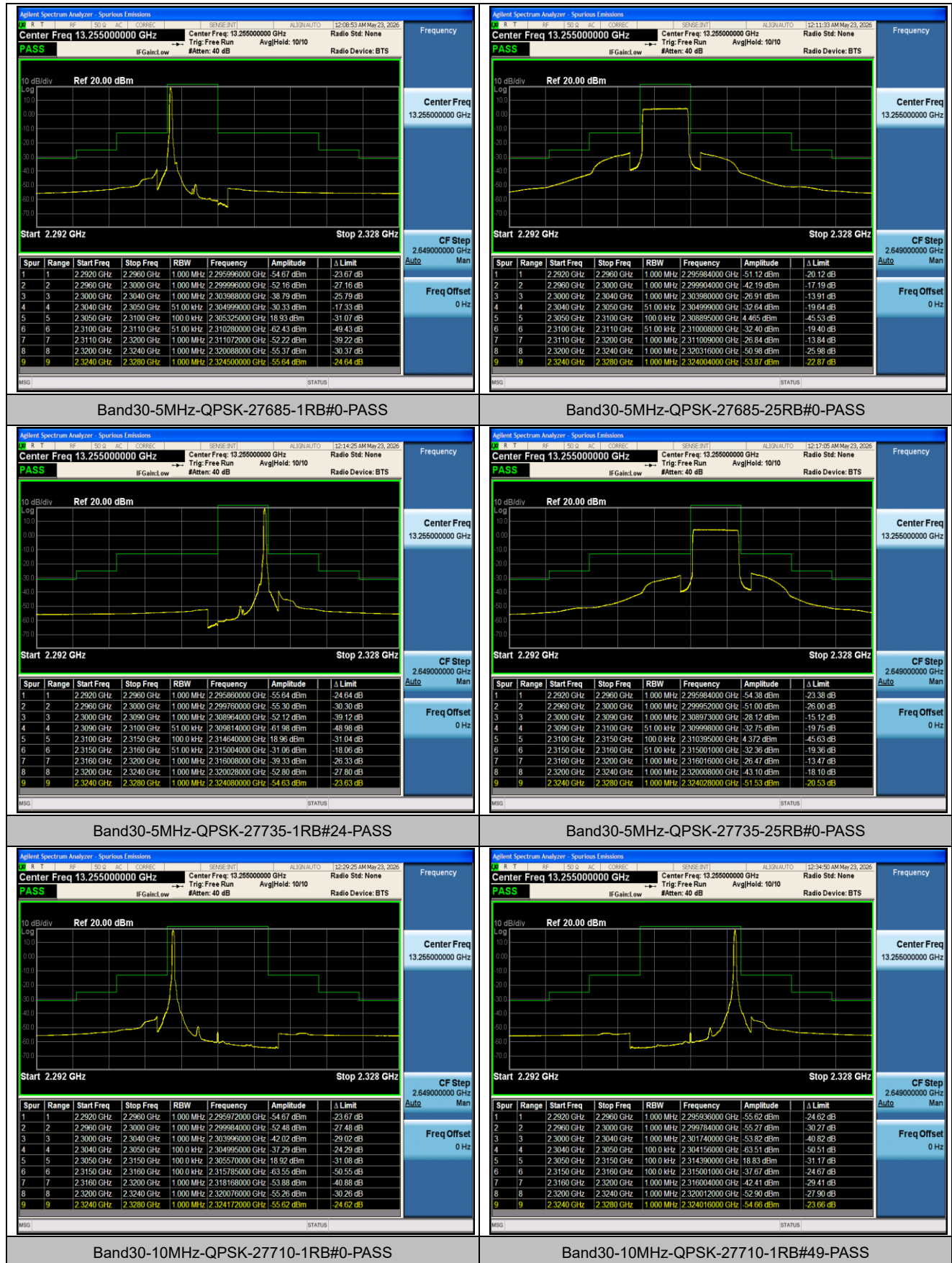


Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	-30.33	PASS
Band30	5MHz	QPSK	27685	25RB#0	-26.84	PASS
Band30	5MHz	QPSK	27735	1RB#24	-31.06	PASS
Band30	5MHz	QPSK	27735	25RB#0	-26.47	PASS
Band30	10MHz	QPSK	27710	1RB#0	-54.67	PASS
Band30	10MHz	QPSK	27710	1RB#49	-54.66	PASS
Band30	10MHz	QPSK	27710	50RB#0	-32.49	PASS

Test Graphs

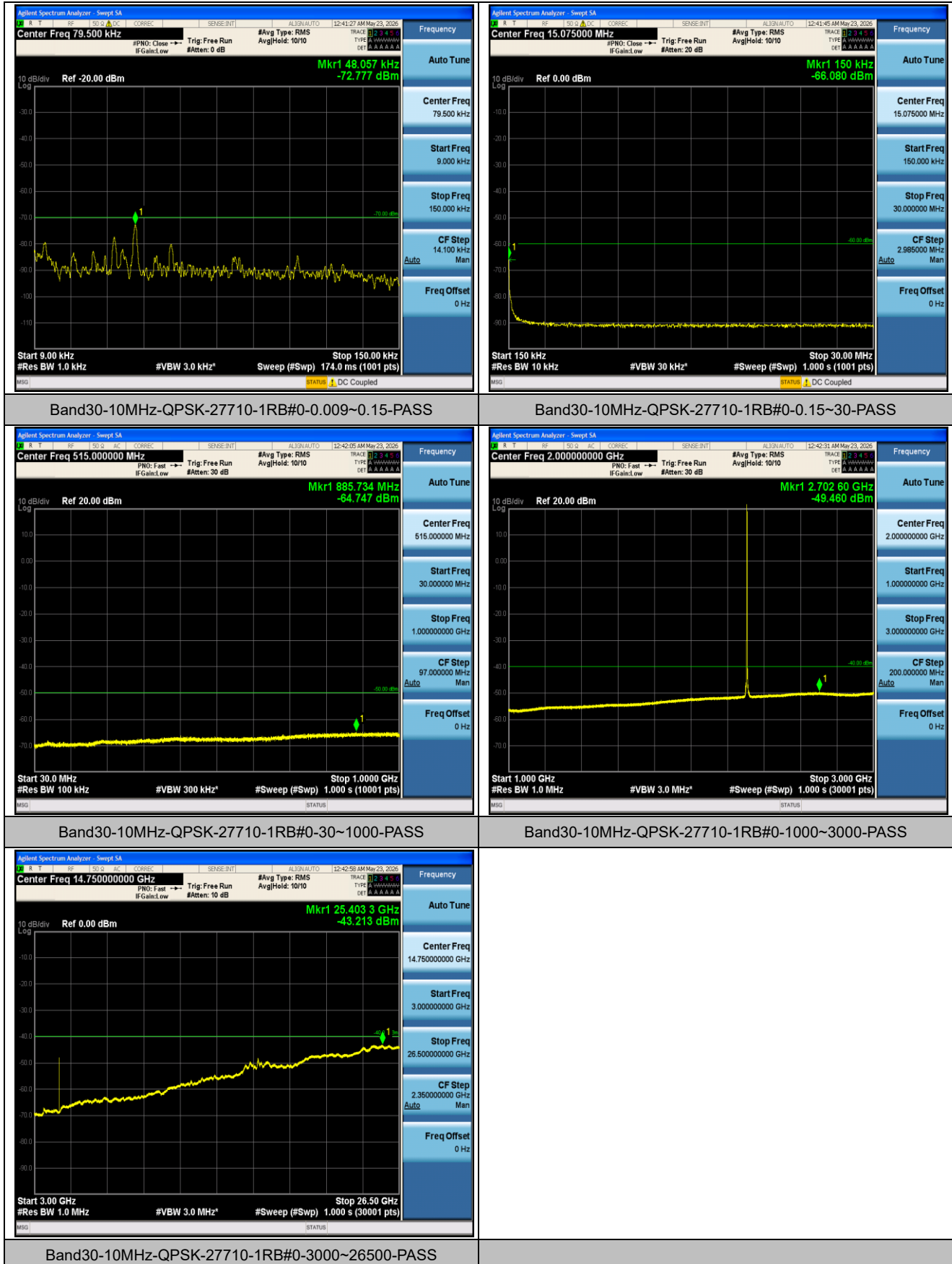




Band30-10MHz-QPSK-27710-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	1540.00	0.666667	PASS
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	160.00	0.069264	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	510.00	0.220779	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-380.00	-0.164502	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	1750.00	0.757576	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-620.00	-0.268398	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-2150.00	-0.930736	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	1460.00	0.632035	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-1530.00	-0.662338	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-2730.00	-1.181818	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	2090.00	0.904762	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	3270.00	1.415584	PASS

~The End~