

LTE Band 41 Test Data

FCC ID: 2A8EM-B7PRO

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FCC LTE FDD Test Data

1. Effective (Isotropic) Radiated Power Output Data

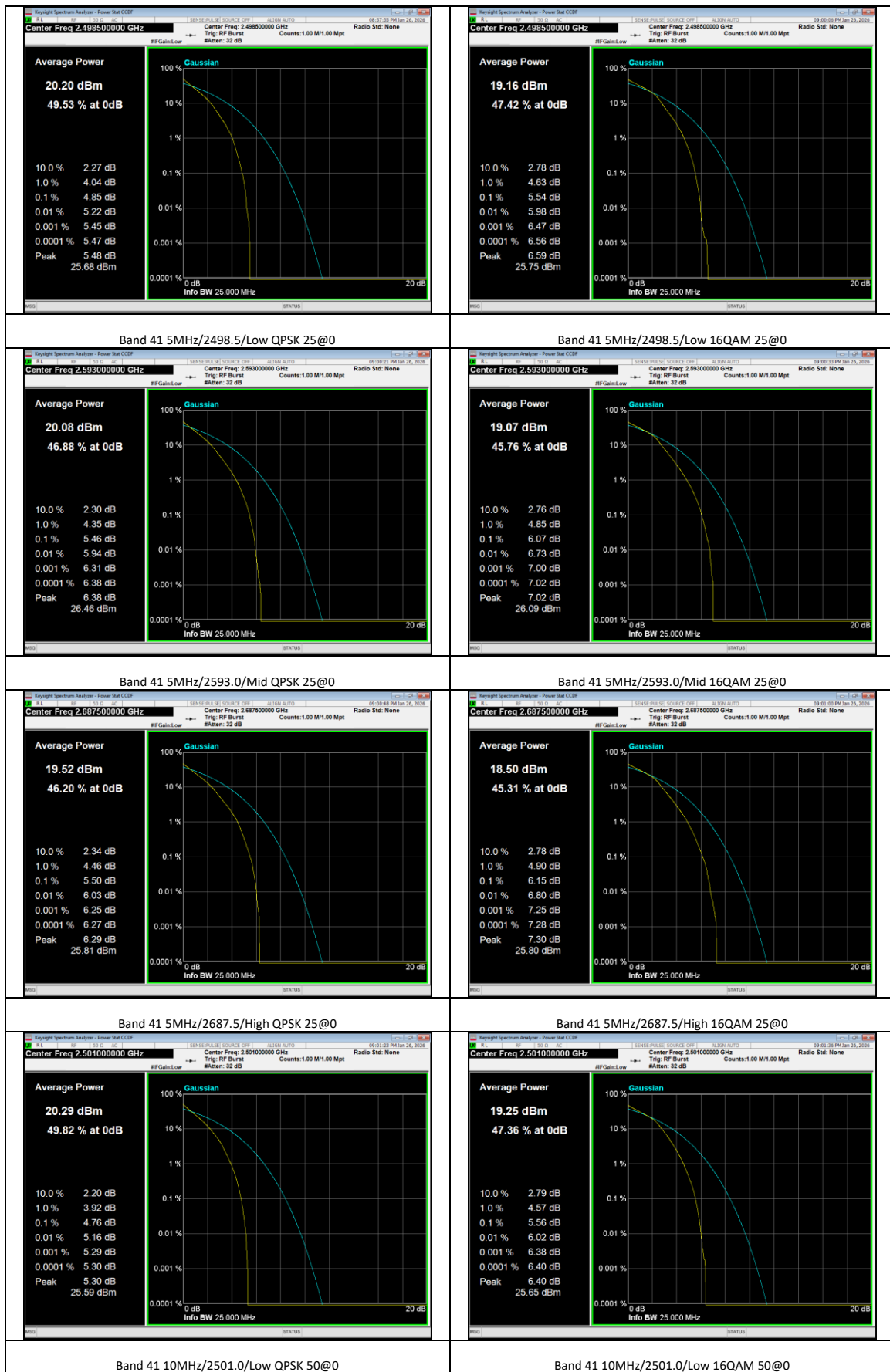
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)	EIRP(Limit) (dBm)	Verdict
41	5.0	39675	2498.5	QPSK	1@0	21.61	24.49	0.2811	33.01	PASS
41	5.0	39675	2498.5	QPSK	1@12	21.61	24.49	0.2811	33.01	PASS
41	5.0	39675	2498.5	QPSK	1@24	21.58	24.46	0.2793	33.01	PASS
41	5.0	39675	2498.5	QPSK	12@0	20.3	23.18	0.2082	33.01	PASS
41	5.0	39675	2498.5	QPSK	12@6	20.29	23.17	0.2077	33.01	PASS
41	5.0	39675	2498.5	QPSK	12@11	20.31	23.19	0.2085	33.01	PASS
41	5.0	39675	2498.5	QPSK	25@0	20.31	23.19	0.2085	33.01	PASS
41	5.0	39675	2498.5	16QAM	1@0	20.32	23.2	0.209	33.01	PASS
41	5.0	39675	2498.5	16QAM	1@12	20.26	23.14	0.2061	33.01	PASS
41	5.0	39675	2498.5	16QAM	1@24	20.3	23.18	0.208	33.01	PASS
41	5.0	39675	2498.5	16QAM	12@0	19.35	22.23	0.167	33.01	PASS
41	5.0	39675	2498.5	16QAM	12@6	19.34	22.22	0.1668	33.01	PASS
41	5.0	39675	2498.5	16QAM	12@11	19.37	22.25	0.1678	33.01	PASS
41	5.0	39675	2498.5	16QAM	25@0	19.37	22.25	0.1681	33.01	PASS
41	5.0	40620	2593.0	QPSK	1@0	21.25	24.13	0.2591	33.01	PASS
41	5.0	40620	2593.0	QPSK	1@12	21.23	24.11	0.2575	33.01	PASS
41	5.0	40620	2593.0	QPSK	1@24	21.18	24.06	0.2546	33.01	PASS
41	5.0	40620	2593.0	QPSK	12@0	20.16	23.04	0.2014	33.01	PASS
41	5.0	40620	2593.0	QPSK	12@6	20.15	23.03	0.2009	33.01	PASS
41	5.0	40620	2593.0	QPSK	12@11	20.17	23.05	0.2016	33.01	PASS
41	5.0	40620	2593.0	QPSK	25@0	20.13	23.01	0.2002	33.01	PASS
41	5.0	40620	2593.0	16QAM	1@0	20.42	23.3	0.214	33.01	PASS
41	5.0	40620	2593.0	16QAM	1@12	20.37	23.25	0.2114	33.01	PASS
41	5.0	40620	2593.0	16QAM	1@24	20.38	23.26	0.2117	33.01	PASS
41	5.0	40620	2593.0	16QAM	12@0	19.16	22.04	0.1601	33.01	PASS
41	5.0	40620	2593.0	16QAM	12@6	19.13	22.01	0.1589	33.01	PASS
41	5.0	40620	2593.0	16QAM	12@11	19.16	22.04	0.1598	33.01	PASS
41	5.0	40620	2593.0	16QAM	25@0	19.13	22.01	0.159	33.01	PASS
41	5.0	41565	2687.5	QPSK	1@0	20.85	23.73	0.2359	33.01	PASS
41	5.0	41565	2687.5	QPSK	1@12	20.67	23.55	0.2267	33.01	PASS
41	5.0	41565	2687.5	QPSK	1@24	20.67	23.55	0.2265	33.01	PASS
41	5.0	41565	2687.5	QPSK	12@0	19.73	22.61	0.1826	33.01	PASS
41	5.0	41565	2687.5	QPSK	12@6	19.7	22.58	0.1811	33.01	PASS
41	5.0	41565	2687.5	QPSK	12@11	19.73	22.61	0.1826	33.01	PASS
41	5.0	41565	2687.5	QPSK	25@0	19.7	22.58	0.181	33.01	PASS
41	5.0	41565	2687.5	16QAM	1@0	19.71	22.59	0.1817	33.01	PASS
41	5.0	41565	2687.5	16QAM	1@12	19.56	22.44	0.1754	33.01	PASS
41	5.0	41565	2687.5	16QAM	1@24	19.56	22.44	0.1753	33.01	PASS
41	5.0	41565	2687.5	16QAM	12@0	18.72	21.6	0.1447	33.01	PASS
41	5.0	41565	2687.5	16QAM	12@6	18.67	21.55	0.1428	33.01	PASS
41	5.0	41565	2687.5	16QAM	12@11	18.66	21.54	0.1425	33.01	PASS
41	5.0	41565	2687.5	16QAM	25@0	18.57	21.45	0.1398	33.01	PASS
41	10.0	39700	2501.0	QPSK	1@0	21.4	24.28	0.2678	33.01	PASS
41	10.0	39700	2501.0	QPSK	1@24	21.45	24.33	0.2712	33.01	PASS
41	10.0	39700	2501.0	QPSK	1@49	21.47	24.35	0.2723	33.01	PASS
41	10.0	39700	2501.0	QPSK	25@0	20.29	23.17	0.2073	33.01	PASS
41	10.0	39700	2501.0	QPSK	25@12	20.35	23.23	0.2106	33.01	PASS
41	10.0	39700	2501.0	QPSK	25@24	20.34	23.22	0.2099	33.01	PASS
41	10.0	39700	2501.0	QPSK	50@0	20.32	23.2	0.2089	33.01	PASS
41	10.0	39700	2501.0	16QAM	1@0	20.67	23.55	0.2265	33.01	PASS
41	10.0	39700	2501.0	16QAM	1@24	20.71	23.59	0.2287	33.01	PASS
41	10.0	39700	2501.0	16QAM	1@49	20.71	23.59	0.2285	33.01	PASS
41	10.0	39700	2501.0	16QAM	25@0	19.23	22.11	0.1626	33.01	PASS
41	10.0	39700	2501.0	16QAM	25@12	19.26	22.14	0.1637	33.01	PASS
41	10.0	39700	2501.0	16QAM	25@24	19.24	22.12	0.163	33.01	PASS
41	10.0	39700	2501.0	16QAM	50@0	19.29	22.17	0.1649	33.01	PASS
41	10.0	40620	2593.0	QPSK	1@0	20.99	23.87	0.2438	33.01	PASS
41	10.0	40620	2593.0	QPSK	1@24	21.04	23.92	0.2467	33.01	PASS
41	10.0	40620	2593.0	QPSK	1@49	21.01	23.89	0.2451	33.01	PASS
41	10.0	40620	2593.0	QPSK	25@0	20.08	22.96	0.1976	33.01	PASS
41	10.0	40620	2593.0	QPSK	25@12	20.08	22.96	0.1977	33.01	PASS
41	10.0	40620	2593.0	QPSK	25@24	20.1	22.98	0.1986	33.01	PASS
41	10.0	40620	2593.0	QPSK	50@0	20.1	22.98	0.1985	33.01	PASS
41	10.0	40620	2593.0	16QAM	1@0	19.74	22.62	0.1828	33.01	PASS
41	10.0	40620	2593.0	16QAM	1@24	19.8	22.68	0.1855	33.01	PASS
41	10.0	40620	2593.0	16QAM	1@49	19.75	22.63	0.1833	33.01	PASS
41	10.0	40620	2593.0	16QAM	25@0	19.13	22.01	0.159	33.01	PASS
41	10.0	40620	2593.0	16QAM	25@12	19.13	22.01	0.159	33.01	PASS
41	10.0	40620	2593.0	16QAM	25@24	19.09	21.97	0.1575	33.01	PASS
41	10.0	40620	2593.0	16QAM	50@0	19.15	22.03	0.1594	33.01	PASS
41	10.0	41540	2685.0	QPSK	1@0	20.83	23.71	0.2351	33.01	PASS

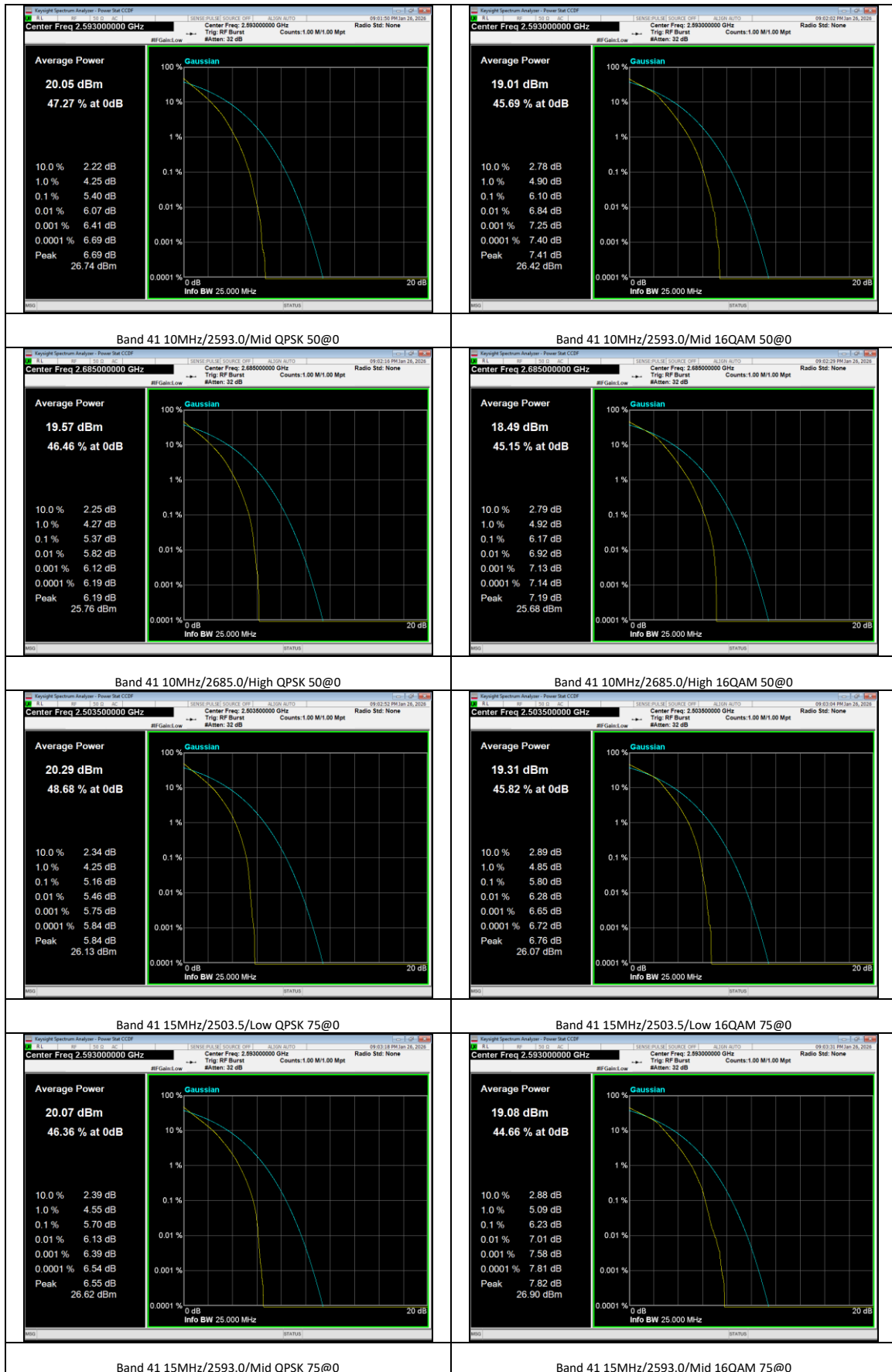
41	10.0	41540	2685.0	QPSK	1@24	20.75	23.63	0.2306	33.01	PASS
41	10.0	41540	2685.0	QPSK	1@49	20.71	23.59	0.2286	33.01	PASS
41	10.0	41540	2685.0	QPSK	25@0	19.77	22.65	0.184	33.01	PASS
41	10.0	41540	2685.0	QPSK	25@12	19.8	22.68	0.1853	33.01	PASS
41	10.0	41540	2685.0	QPSK	25@24	19.8	22.68	0.1852	33.01	PASS
41	10.0	41540	2685.0	QPSK	50@0	19.71	22.59	0.1816	33.01	PASS
41	10.0	41540	2685.0	16QAM	1@0	19.46	22.34	0.1713	33.01	PASS
41	10.0	41540	2685.0	16QAM	1@24	19.3	22.18	0.1652	33.01	PASS
41	10.0	41540	2685.0	16QAM	1@49	19.3	22.18	0.1652	33.01	PASS
41	10.0	41540	2685.0	16QAM	25@0	18.78	21.66	0.1465	33.01	PASS
41	10.0	41540	2685.0	16QAM	25@12	18.76	21.64	0.1459	33.01	PASS
41	10.0	41540	2685.0	16QAM	25@24	18.78	21.66	0.1466	33.01	PASS
41	10.0	41540	2685.0	16QAM	50@0	18.72	21.6	0.1447	33.01	PASS
41	15.0	39725	2503.5	QPSK	1@0	21.3	24.18	0.2616	33.01	PASS
41	15.0	39725	2503.5	QPSK	1@37	21.35	24.23	0.2648	33.01	PASS
41	15.0	39725	2503.5	QPSK	1@74	21.29	24.17	0.2612	33.01	PASS
41	15.0	39725	2503.5	QPSK	36@0	20.25	23.13	0.2057	33.01	PASS
41	15.0	39725	2503.5	QPSK	36@16	20.26	23.14	0.2059	33.01	PASS
41	15.0	39725	2503.5	QPSK	36@35	20.26	23.14	0.2059	33.01	PASS
41	15.0	39725	2503.5	QPSK	75@0	20.33	23.21	0.2095	33.01	PASS
41	15.0	39725	2503.5	16QAM	1@0	20.23	23.11	0.2048	33.01	PASS
41	15.0	39725	2503.5	16QAM	1@37	20.37	23.25	0.2115	33.01	PASS
41	15.0	39725	2503.5	16QAM	1@74	20.33	23.21	0.2092	33.01	PASS
41	15.0	39725	2503.5	16QAM	36@0	19.34	22.22	0.1667	33.01	PASS
41	15.0	39725	2503.5	16QAM	36@16	19.33	22.21	0.1662	33.01	PASS
41	15.0	39725	2503.5	16QAM	36@35	19.33	22.21	0.1662	33.01	PASS
41	15.0	39725	2503.5	16QAM	75@0	19.3	22.18	0.1651	33.01	PASS
41	15.0	40620	2593.0	QPSK	1@0	21.14	24.02	0.2522	33.01	PASS
41	15.0	40620	2593.0	QPSK	1@37	21.2	24.08	0.2561	33.01	PASS
41	15.0	40620	2593.0	QPSK	1@74	21.14	24.02	0.2522	33.01	PASS
41	15.0	40620	2593.0	QPSK	36@0	20.09	22.97	0.1981	33.01	PASS
41	15.0	40620	2593.0	QPSK	36@16	20.05	22.93	0.1966	33.01	PASS
41	15.0	40620	2593.0	QPSK	36@35	20.11	22.99	0.1992	33.01	PASS
41	15.0	40620	2593.0	QPSK	75@0	20.09	22.97	0.1981	33.01	PASS
41	15.0	40620	2593.0	16QAM	1@0	20.39	23.27	0.2123	33.01	PASS
41	15.0	40620	2593.0	16QAM	1@37	20.45	23.33	0.2155	33.01	PASS
41	15.0	40620	2593.0	16QAM	1@74	20.38	23.26	0.2116	33.01	PASS
41	15.0	40620	2593.0	16QAM	36@0	19.13	22.01	0.159	33.01	PASS
41	15.0	40620	2593.0	16QAM	36@16	19.07	21.95	0.1568	33.01	PASS
41	15.0	40620	2593.0	16QAM	36@35	19.11	21.99	0.1579	33.01	PASS
41	15.0	40620	2593.0	16QAM	75@0	19.08	21.96	0.1569	33.01	PASS
41	15.0	41515	2682.5	QPSK	1@0	20.66	23.54	0.2259	33.01	PASS
41	15.0	41515	2682.5	QPSK	1@37	20.61	23.49	0.2232	33.01	PASS
41	15.0	41515	2682.5	QPSK	1@74	20.48	23.36	0.2166	33.01	PASS
41	15.0	41515	2682.5	QPSK	36@0	19.83	22.71	0.1866	33.01	PASS
41	15.0	41515	2682.5	QPSK	36@16	19.76	22.64	0.1839	33.01	PASS
41	15.0	41515	2682.5	QPSK	36@35	19.84	22.72	0.187	33.01	PASS
41	15.0	41515	2682.5	QPSK	75@0	19.71	22.59	0.1817	33.01	PASS
41	15.0	41515	2682.5	16QAM	1@0	19.41	22.29	0.1696	33.01	PASS
41	15.0	41515	2682.5	16QAM	1@37	19.35	22.23	0.1671	33.01	PASS
41	15.0	41515	2682.5	16QAM	1@74	19.25	22.13	0.1633	33.01	PASS
41	15.0	41515	2682.5	16QAM	36@0	18.74	21.62	0.1453	33.01	PASS
41	15.0	41515	2682.5	16QAM	36@16	18.75	21.63	0.1456	33.01	PASS
41	15.0	41515	2682.5	16QAM	36@35	18.75	21.63	0.1455	33.01	PASS
41	15.0	41515	2682.5	16QAM	75@0	18.65	21.53	0.1421	33.01	PASS
41	20.0	39750	2506.0	QPSK	1@0	21.3	24.18	0.2616	33.01	PASS
41	20.0	39750	2506.0	QPSK	1@49	21.36	24.24	0.2652	33.01	PASS
41	20.0	39750	2506.0	QPSK	1@99	21.32	24.2	0.2631	33.01	PASS
41	20.0	39750	2506.0	QPSK	50@0	20.28	23.16	0.2071	33.01	PASS
41	20.0	39750	2506.0	QPSK	50@24	20.24	23.12	0.205	33.01	PASS
41	20.0	39750	2506.0	QPSK	50@49	20.29	23.17	0.2076	33.01	PASS
41	20.0	39750	2506.0	QPSK	100@0	20.26	23.14	0.2058	33.01	PASS
41	20.0	39750	2506.0	16QAM	1@0	20.39	23.27	0.2121	33.01	PASS
41	20.0	39750	2506.0	16QAM	1@49	20.52	23.4	0.219	33.01	PASS
41	20.0	39750	2506.0	16QAM	1@99	20.47	23.35	0.2164	33.01	PASS
41	20.0	39750	2506.0	16QAM	50@0	19.22	22.1	0.1622	33.01	PASS
41	20.0	39750	2506.0	16QAM	50@24	19.22	22.1	0.1622	33.01	PASS
41	20.0	39750	2506.0	16QAM	50@49	19.22	22.1	0.1621	33.01	PASS
41	20.0	39750	2506.0	16QAM	100@0	19.29	22.17	0.165	33.01	PASS
41	20.0	40620	2593.0	QPSK	1@0	21.13	24.01	0.2516	33.01	PASS
41	20.0	40620	2593.0	QPSK	1@49	21.17	24.05	0.254	33.01	PASS
41	20.0	40620	2593.0	QPSK	1@99	21.12	24.0	0.2513	33.01	PASS
41	20.0	40620	2593.0	QPSK	50@0	20.12	23.0	0.1994	33.01	PASS
41	20.0	40620	2593.0	QPSK	50@24	20.17	23.05	0.2021	33.01	PASS
41	20.0	40620	2593.0	QPSK	50@49	20.11	22.99	0.199	33.01	PASS
41	20.0	40620	2593.0	QPSK	100@0	20.1	22.98	0.1984	33.01	PASS
41	20.0	40620	2593.0	16QAM	1@0	19.76	22.64	0.1839	33.01	PASS
41	20.0	40620	2593.0	16QAM	1@49	19.84	22.72	0.1872	33.01	PASS
41	20.0	40620	2593.0	16QAM	1@99	19.76	22.64	0.1837	33.01	PASS
41	20.0	40620	2593.0	16QAM	50@0	19.2	22.08	0.1614	33.01	PASS
41	20.0	40620	2593.0	16QAM	50@24	19.19	22.07	0.1612	33.01	PASS
41	20.0	40620	2593.0	16QAM	50@49	19.2	22.08	0.1615	33.01	PASS
41	20.0	40620	2593.0	16QAM	100@0	19.03	21.91	0.1553	33.01	PASS
41	20.0	41490	2680.0	QPSK	1@0	20.84	23.72	0.2355	33.01	PASS
41	20.0	41490	2680.0	QPSK	1@49	20.87	23.75	0.2369	33.01	PASS
41	20.0	41490	2680.0	QPSK	1@99	20.66	23.54	0.2259	33.01	PASS

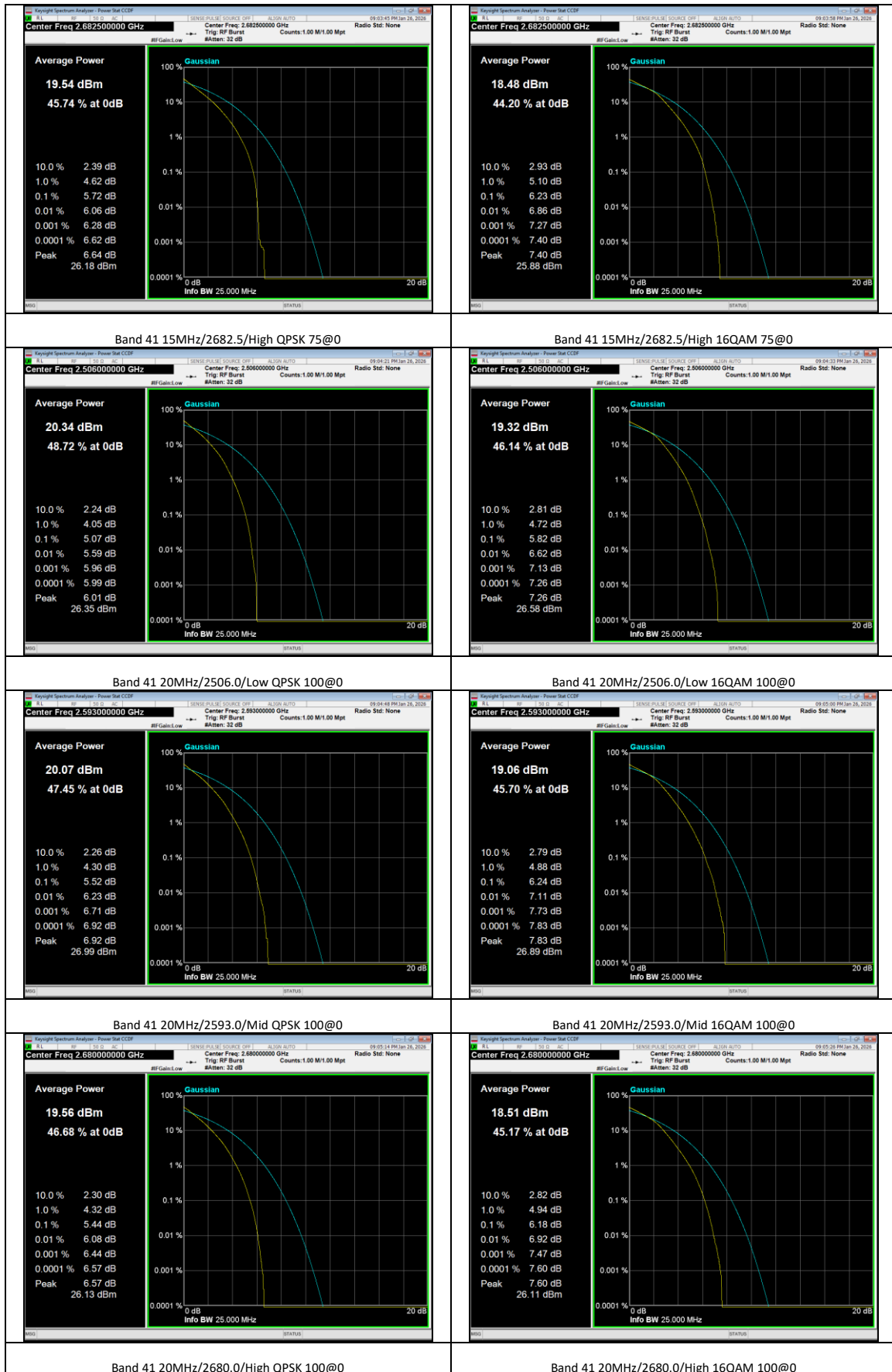
41	20.0	41490	2680.0	QPSK	50@0	19.92	22.8	0.1906	33.01	PASS
41	20.0	41490	2680.0	QPSK	50@24	19.93	22.81	0.191	33.01	PASS
41	20.0	41490	2680.0	QPSK	50@49	19.91	22.79	0.1903	33.01	PASS
41	20.0	41490	2680.0	QPSK	100@0	19.72	22.6	0.1819	33.01	PASS
41	20.0	41490	2680.0	16QAM	1@0	19.91	22.79	0.1902	33.01	PASS
41	20.0	41490	2680.0	16QAM	1@49	19.94	22.82	0.1914	33.01	PASS
41	20.0	41490	2680.0	16QAM	1@99	19.88	22.76	0.1888	33.01	PASS
41	20.0	41490	2680.0	16QAM	50@0	18.88	21.76	0.15	33.01	PASS
41	20.0	41490	2680.0	16QAM	50@24	18.9	21.78	0.1508	33.01	PASS
41	20.0	41490	2680.0	16QAM	50@49	18.89	21.77	0.1504	33.01	PASS
41	20.0	41490	2680.0	16QAM	100@0	18.69	21.57	0.1435	33.01	PASS

2. Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
41	5.0	39675	2498.5	QPSK	25@0	4.85	13	PASS
41	5.0	39675	2498.5	16QAM	25@0	5.54	13	PASS
41	5.0	40620	2593.0	QPSK	25@0	5.46	13	PASS
41	5.0	40620	2593.0	16QAM	25@0	6.07	13	PASS
41	5.0	41565	2687.5	QPSK	25@0	5.5	13	PASS
41	5.0	41565	2687.5	16QAM	25@0	6.15	13	PASS
41	10.0	39700	2501.0	QPSK	50@0	4.76	13	PASS
41	10.0	39700	2501.0	16QAM	50@0	5.56	13	PASS
41	10.0	40620	2593.0	QPSK	50@0	5.4	13	PASS
41	10.0	40620	2593.0	16QAM	50@0	6.1	13	PASS
41	10.0	41540	2685.0	QPSK	50@0	5.37	13	PASS
41	10.0	41540	2685.0	16QAM	50@0	6.17	13	PASS
41	15.0	39725	2503.5	QPSK	75@0	5.16	13	PASS
41	15.0	39725	2503.5	16QAM	75@0	5.8	13	PASS
41	15.0	40620	2593.0	QPSK	75@0	5.7	13	PASS
41	15.0	40620	2593.0	16QAM	75@0	6.23	13	PASS
41	15.0	41515	2682.5	QPSK	75@0	5.72	13	PASS
41	15.0	41515	2682.5	16QAM	75@0	6.23	13	PASS
41	20.0	39750	2506.0	QPSK	100@0	5.07	13	PASS
41	20.0	39750	2506.0	16QAM	100@0	5.82	13	PASS
41	20.0	40620	2593.0	QPSK	100@0	5.52	13	PASS
41	20.0	40620	2593.0	16QAM	100@0	6.24	13	PASS
41	20.0	41490	2680.0	QPSK	100@0	5.44	13	PASS
41	20.0	41490	2680.0	16QAM	100@0	6.18	13	PASS

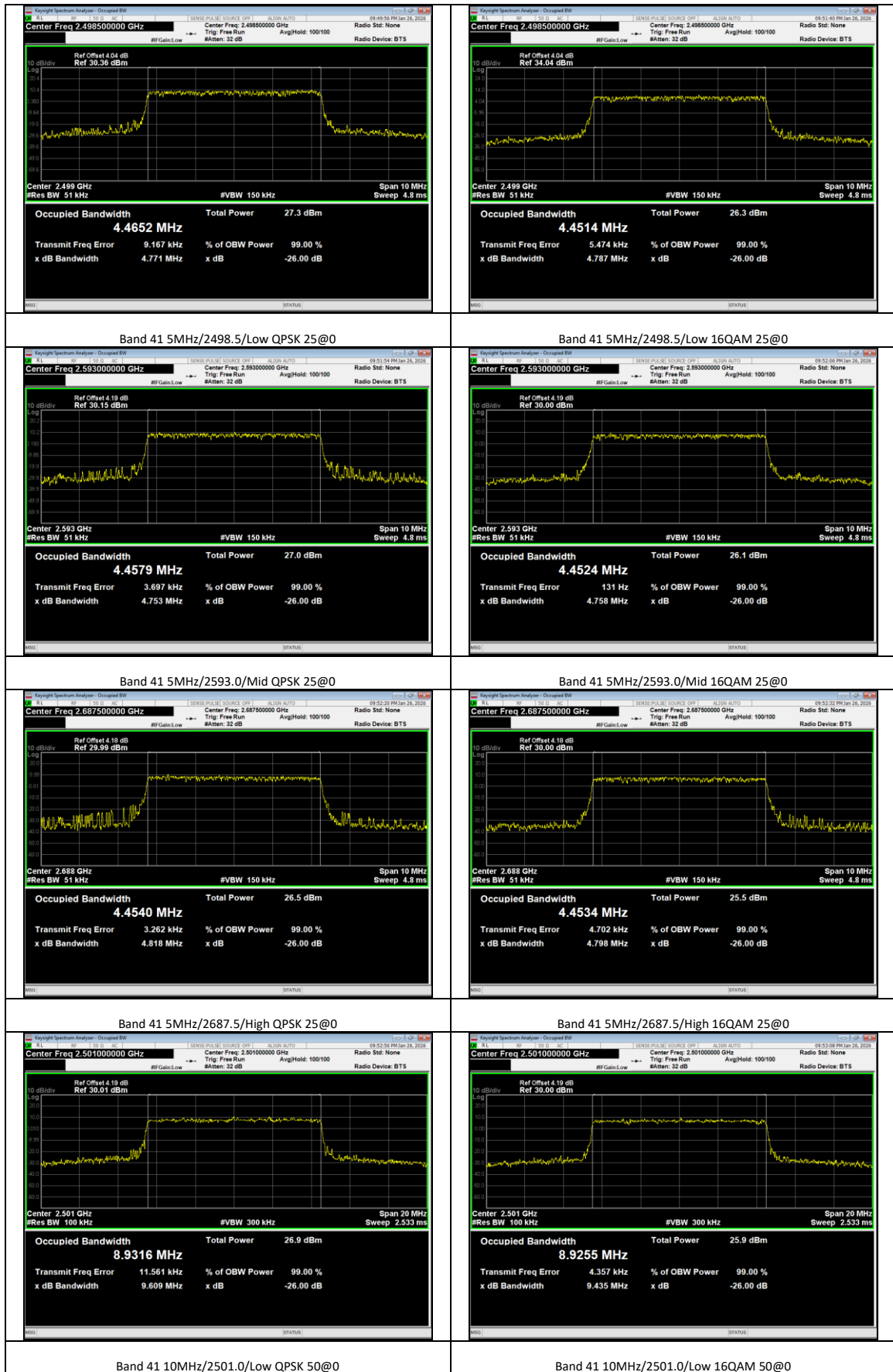


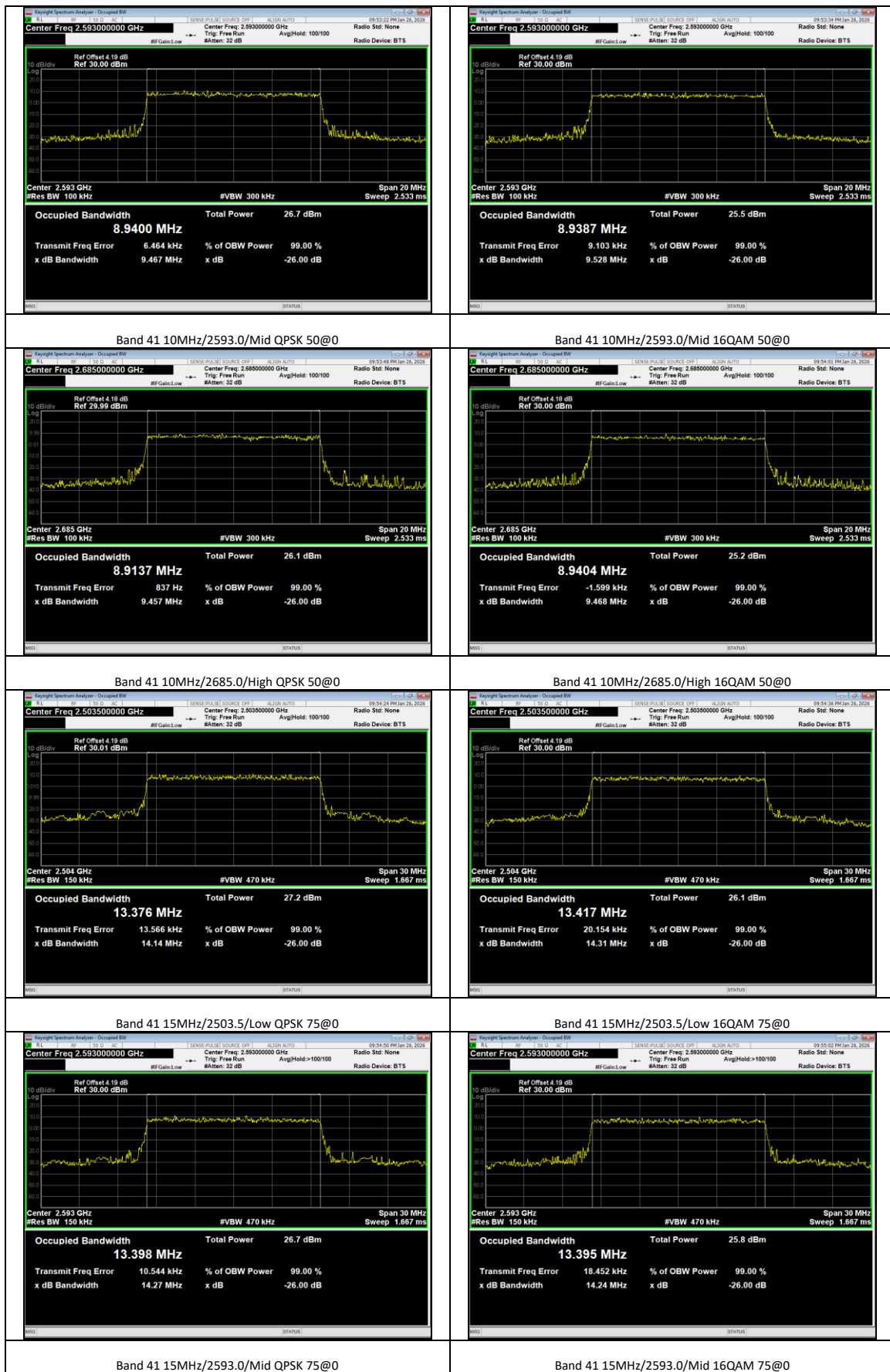


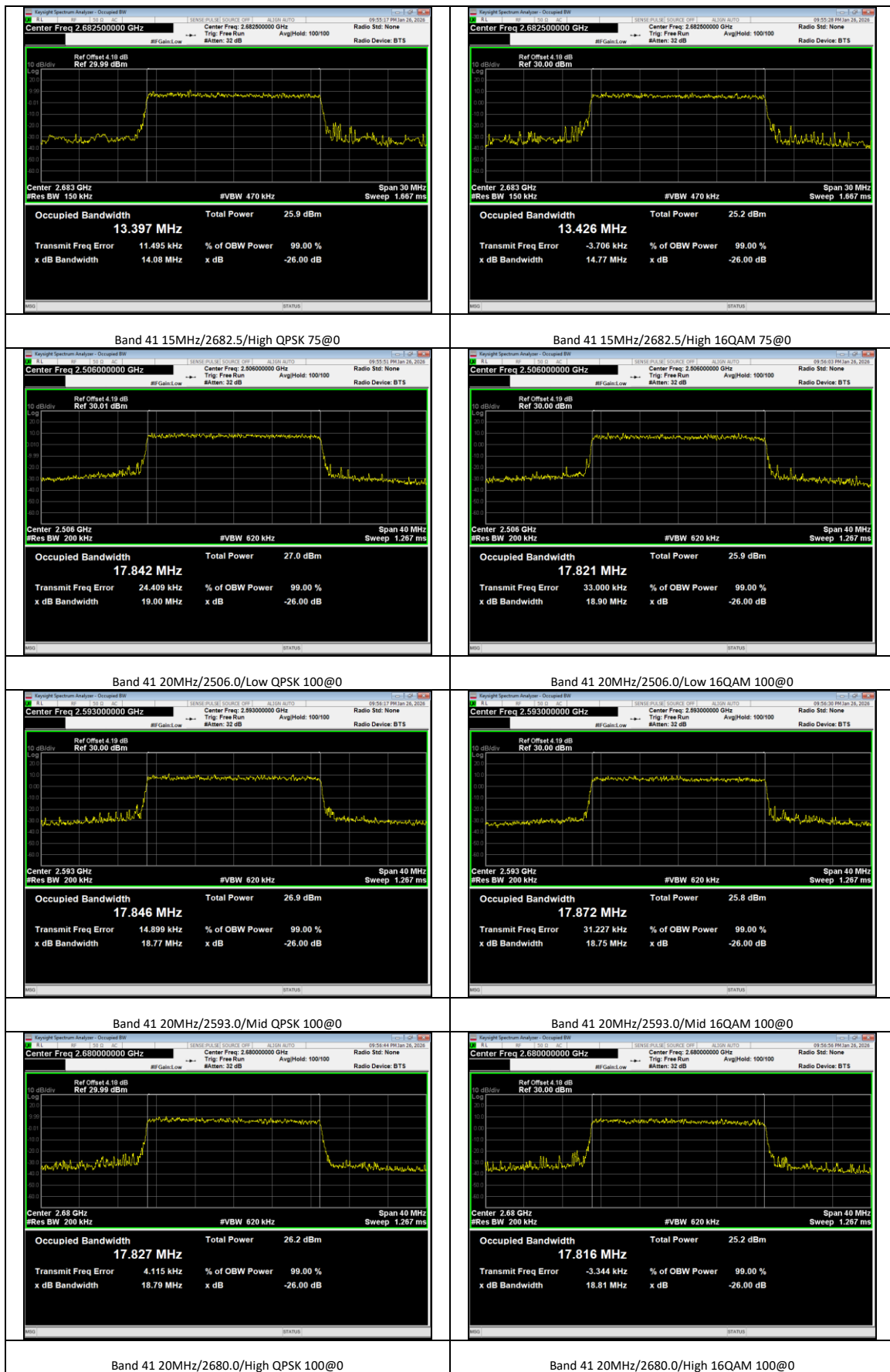


3. Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
41	5.0	39675	2498.5	QPSK	25@0	4.4652	4.771	PASS
41	5.0	39675	2498.5	16QAM	25@0	4.4514	4.787	PASS
41	5.0	40620	2593.0	QPSK	25@0	4.4579	4.753	PASS
41	5.0	40620	2593.0	16QAM	25@0	4.4524	4.758	PASS
41	5.0	41565	2687.5	QPSK	25@0	4.4540	4.818	PASS
41	5.0	41565	2687.5	16QAM	25@0	4.4534	4.798	PASS
41	10.0	39700	2501.0	QPSK	50@0	8.9316	9.609	PASS
41	10.0	39700	2501.0	16QAM	50@0	8.9255	9.435	PASS
41	10.0	40620	2593.0	QPSK	50@0	8.9400	9.467	PASS
41	10.0	40620	2593.0	16QAM	50@0	8.9387	9.528	PASS
41	10.0	41540	2685.0	QPSK	50@0	8.9137	9.457	PASS
41	10.0	41540	2685.0	16QAM	50@0	8.9404	9.468	PASS
41	15.0	39725	2503.5	QPSK	75@0	13.376	14.14	PASS
41	15.0	39725	2503.5	16QAM	75@0	13.417	14.31	PASS
41	15.0	40620	2593.0	QPSK	75@0	13.398	14.27	PASS
41	15.0	40620	2593.0	16QAM	75@0	13.395	14.24	PASS
41	15.0	41515	2682.5	QPSK	75@0	13.397	14.08	PASS
41	15.0	41515	2682.5	16QAM	75@0	13.426	14.77	PASS
41	20.0	39750	2506.0	QPSK	100@0	17.842	19.00	PASS
41	20.0	39750	2506.0	16QAM	100@0	17.821	18.90	PASS
41	20.0	40620	2593.0	QPSK	100@0	17.846	18.77	PASS
41	20.0	40620	2593.0	16QAM	100@0	17.872	18.75	PASS
41	20.0	41490	2680.0	QPSK	100@0	17.827	18.79	PASS
41	20.0	41490	2680.0	16QAM	100@0	17.816	18.81	PASS







4. Unwanted Spurious Emission

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
41	5.0	39675	2498.5	QPSK	1@0	30	1000	-55.78	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	1000	4000	-43.55	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	4000	7000	-47.8	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	7000	10000	-44.79	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	10000	13000	-50.07	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	13000	16000	-48.11	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	16000	19000	-46.09	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	19000	22000	-44.14	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	22000	25000	-38.0	-25	PASS
41	5.0	39675	2498.5	QPSK	1@0	25000	27000	-38.14	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	30	1000	-56.79	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	1000	4000	-40.51	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	4000	7000	-49.33	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	7000	10000	-45.07	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	10000	13000	-50.41	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	13000	16000	-48.37	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	16000	19000	-45.98	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	19000	22000	-44.1	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	22000	25000	-38.97	-25	PASS
41	5.0	39675	2498.5	16QAM	1@0	25000	27000	-38.93	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	30	1000	-38.53	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	1000	4000	-35.25	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	4000	7000	-52.99	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	7000	10000	-37.97	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	10000	13000	-48.62	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	13000	16000	-47.45	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	16000	19000	-46.66	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	19000	22000	-43.75	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	22000	25000	-38.48	-25	PASS
41	5.0	40620	2593.0	QPSK	1@0	25000	27000	-38.43	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	30	1000	-39.08	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	1000	4000	-39.15	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	4000	7000	-53.16	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	7000	10000	-40.26	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	10000	13000	-47.52	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	13000	16000	-46.83	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	16000	19000	-45.68	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	19000	22000	-42.72	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	22000	25000	-37.96	-25	PASS
41	5.0	40620	2593.0	16QAM	1@0	25000	27000	-38.9	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	30	1000	-42.63	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	1000	4000	-40.29	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	4000	7000	-49.53	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	7000	10000	-35.04	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	10000	13000	-41.08	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	13000	16000	-48.02	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	16000	19000	-45.96	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	19000	22000	-43.67	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	22000	25000	-38.53	-25	PASS
41	5.0	41565	2687.5	QPSK	1@0	25000	27000	-38.09	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	30	1000	-41.58	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	1000	4000	-38.85	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	4000	7000	-50.42	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	7000	10000	-34.99	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	10000	13000	-44.95	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	13000	16000	-47.85	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	16000	19000	-46.25	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	19000	22000	-44.49	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	22000	25000	-38.82	-25	PASS
41	5.0	41565	2687.5	16QAM	1@0	25000	27000	-38.97	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	30	1000	-56.08	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	1000	4000	-39.21	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	4000	7000	-47.88	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	7000	10000	-44.41	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	10000	13000	-48.72	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	13000	16000	-47.63	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	16000	19000	-45.51	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	19000	22000	-43.76	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	22000	25000	-38.29	-25	PASS
41	10.0	39700	2501.0	QPSK	1@0	25000	27000	-37.9	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	30	1000	-56.59	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	1000	4000	-42.26	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	4000	7000	-49.12	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	7000	10000	-45.72	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	10000	13000	-49.16	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	13000	16000	-48.58	-25	PASS

41	10.0	39700	2501.0	16QAM	1@0	16000	19000	-46.52	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	19000	22000	-43.29	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	22000	25000	-38.5	-25	PASS
41	10.0	39700	2501.0	16QAM	1@0	25000	27000	-38.37	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	30	1000	-56.27	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	1000	4000	-39.39	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	4000	7000	-52.77	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	7000	10000	-39.59	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	10000	13000	-46.64	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	13000	16000	-47.26	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	16000	19000	-45.97	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	19000	22000	-44.08	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	22000	25000	-38.31	-25	PASS
41	10.0	40620	2593.0	QPSK	1@0	25000	27000	-38.83	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	30	1000	-57.22	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	1000	4000	-38.48	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	4000	7000	-52.36	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	7000	10000	-37.95	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	10000	13000	-47.4	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	13000	16000	-48.15	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	16000	19000	-45.96	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	19000	22000	-43.51	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	22000	25000	-37.09	-25	PASS
41	10.0	40620	2593.0	16QAM	1@0	25000	27000	-38.82	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	30	1000	-42.01	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	1000	4000	-36.96	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	4000	7000	-48.25	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	7000	10000	-36.11	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	10000	13000	-45.98	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	13000	16000	-47.74	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	16000	19000	-46.3	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	19000	22000	-43.41	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	22000	25000	-38.45	-25	PASS
41	10.0	41540	2685.0	QPSK	1@0	25000	27000	-39.11	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	30	1000	-43.81	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	1000	4000	-37.18	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	4000	7000	-48.25	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	7000	10000	-37.37	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	10000	13000	-42.8	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	13000	16000	-47.76	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	16000	19000	-46.46	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	19000	22000	-43.63	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	22000	25000	-38.69	-25	PASS
41	10.0	41540	2685.0	16QAM	1@0	25000	27000	-39.22	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	30	1000	-56.88	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	1000	4000	-40.09	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	4000	7000	-47.92	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	7000	10000	-45.43	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	10000	13000	-51.09	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	13000	16000	-47.01	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	16000	19000	-45.96	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	19000	22000	-43.46	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	22000	25000	-38.44	-25	PASS
41	15.0	39725	2503.5	QPSK	1@0	25000	27000	-37.4	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	30	1000	-56.59	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	1000	4000	-42.72	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	4000	7000	-48.47	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	7000	10000	-45.79	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	10000	13000	-50.0	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	13000	16000	-48.27	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	16000	19000	-46.67	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	19000	22000	-43.75	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	22000	25000	-38.07	-25	PASS
41	15.0	39725	2503.5	16QAM	1@0	25000	27000	-38.2	-25	PASS
41	15.0	40620	2593.0	QPSK	1@0	22000	25000	-38.1	-25	PASS
41	15.0	40620	2593.0	QPSK	1@0	25000	27000	-38.71	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	30	1000	-57.21	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	1000	4000	-40.75	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	4000	7000	-53.18	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	7000	10000	-41.25	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	10000	13000	-46.45	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	13000	16000	-47.9	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	16000	19000	-46.61	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	19000	22000	-44.02	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	22000	25000	-38.18	-25	PASS
41	15.0	40620	2593.0	16QAM	1@0	25000	27000	-38.5	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	30	1000	-42.72	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	1000	4000	-37.41	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	4000	7000	-48.08	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	7000	10000	-35.48	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	10000	13000	-45.85	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	13000	16000	-47.65	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	16000	19000	-46.75	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	19000	22000	-43.99	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	22000	25000	-38.74	-25	PASS
41	15.0	41515	2682.5	QPSK	1@0	25000	27000	-38.52	-25	PASS

41	15.0	41515	2682.5	16QAM	1@0	30	1000	-42.06	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	1000	4000	-37.24	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	4000	7000	-48.73	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	7000	10000	-34.75	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	10000	13000	-46.8	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	13000	16000	-47.8	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	16000	19000	-45.81	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	19000	22000	-44.4	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	22000	25000	-38.31	-25	PASS
41	15.0	41515	2682.5	16QAM	1@0	25000	27000	-38.16	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	30	1000	-56.07	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	1000	4000	-43.82	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	4000	7000	-48.73	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	7000	10000	-46.2	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	10000	13000	-49.04	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	13000	16000	-48.04	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	16000	19000	-45.62	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	19000	22000	-44.23	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	22000	25000	-38.66	-25	PASS
41	20.0	39750	2506.0	QPSK	1@0	25000	27000	-38.64	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	30	1000	-57.47	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	1000	4000	-43.76	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	4000	7000	-48.19	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	7000	10000	-43.78	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	10000	13000	-49.1	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	13000	16000	-48.16	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	16000	19000	-46.65	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	19000	22000	-43.75	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	22000	25000	-38.95	-25	PASS
41	20.0	39750	2506.0	16QAM	1@0	25000	27000	-39.08	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	30	1000	-57.57	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	1000	4000	-43.5	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	4000	7000	-52.32	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	7000	10000	-38.98	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	10000	13000	-47.81	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	13000	16000	-48.19	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	16000	19000	-46.41	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	19000	22000	-44.12	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	22000	25000	-38.72	-25	PASS
41	20.0	40620	2593.0	QPSK	1@0	25000	27000	-39.02	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	30	1000	-56.87	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	1000	4000	-43.28	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	4000	7000	-52.69	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	7000	10000	-39.66	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	10000	13000	-48.98	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	13000	16000	-47.97	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	16000	19000	-46.78	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	19000	22000	-44.32	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	22000	25000	-38.0	-25	PASS
41	20.0	40620	2593.0	16QAM	1@0	25000	27000	-38.97	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	30	1000	-41.11	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	1000	4000	-43.09	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	4000	7000	-48.82	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	7000	10000	-34.21	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	10000	13000	-43.91	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	13000	16000	-47.24	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	16000	19000	-46.72	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	19000	22000	-43.89	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	22000	25000	-39.02	-25	PASS
41	20.0	41490	2680.0	QPSK	1@0	25000	27000	-38.41	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	30	1000	-45.18	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	1000	4000	-43.6	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	4000	7000	-49.19	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	7000	10000	-33.27	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	10000	13000	-44.6	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	13000	16000	-48.12	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	16000	19000	-45.96	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	19000	22000	-43.35	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	22000	25000	-38.77	-25	PASS
41	20.0	41490	2680.0	16QAM	1@0	25000	27000	-38.87	-25	PASS