

Appendix-C LTE Band 4

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	24.13	26.07	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.13	26.07	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.10	26.04	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.32	25.26	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.91	25.85	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.08	26.02	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.03	25.97	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.00	24.94	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.75	25.69	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.99	25.93	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.79	25.73	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.95	24.89	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.08	25.02	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.24	25.18	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.89	24.83	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.39	24.33	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.01	24.95	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.09	25.03	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.99	24.93	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.86	23.8	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.17	25.11	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.41	25.35	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.37	25.31	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.95	23.89	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.31	26.25	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.15	26.09	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.14	26.08	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.30	25.24	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.18	26.12	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.93	25.87	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.13	26.07	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.06	25	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.73	25.67	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.78	25.72	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.96	25.9	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.90	24.84	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.35	25.29	30.00	PASS

Band4	3MHz	16QAM	19965	1RB#8	23.43	25.37	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.25	25.19	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.49	24.43	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.18	25.12	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.87	24.81	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.91	24.85	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.95	23.89	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.14	25.08	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.55	25.49	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.37	25.31	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.88	23.82	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.10	26.04	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.41	26.35	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	24.42	26.36	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.30	25.24	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.93	25.87	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.00	25.94	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.89	25.83	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.97	24.91	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	24.06	26	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.97	25.91	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.98	25.92	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.06	25	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.16	25.1	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.11	25.05	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.24	25.18	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.46	24.4	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.91	24.85	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.94	24.88	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.60	24.54	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.99	23.93	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.33	25.27	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.14	25.08	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.00	24.94	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.06	24	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	24.18	26.12	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.60	26.54	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.31	26.25	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.35	25.29	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	24.09	26.03	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.00	25.94	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.86	25.8	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.06	25	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.31	26.25	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.15	26.09	30.00	PASS

Band4	10MHz	QPSK	20350	1RB#49	24.04	25.98	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.20	25.14	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.48	25.42	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.82	25.76	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.30	25.24	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.41	24.35	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.16	25.1	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.99	24.93	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.01	24.95	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.02	23.96	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.07	25.01	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.48	25.42	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.65	25.59	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.25	24.19	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.97	25.91	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	24.23	26.17	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.14	26.08	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.31	25.25	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.95	25.89	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.61	25.55	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.75	25.69	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.03	24.97	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	24.14	26.08	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.99	25.93	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.88	25.82	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.13	25.07	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.43	25.37	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.28	25.22	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.30	25.24	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.25	24.19	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.11	25.05	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.81	24.75	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.91	24.85	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.11	24.05	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.91	25.85	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.86	25.8	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.84	24.78	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.21	24.15	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	24.27	26.21	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.75	26.69	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.09	26.03	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.45	25.39	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	24.25	26.19	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.17	26.11	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.99	25.93	30.00	PASS

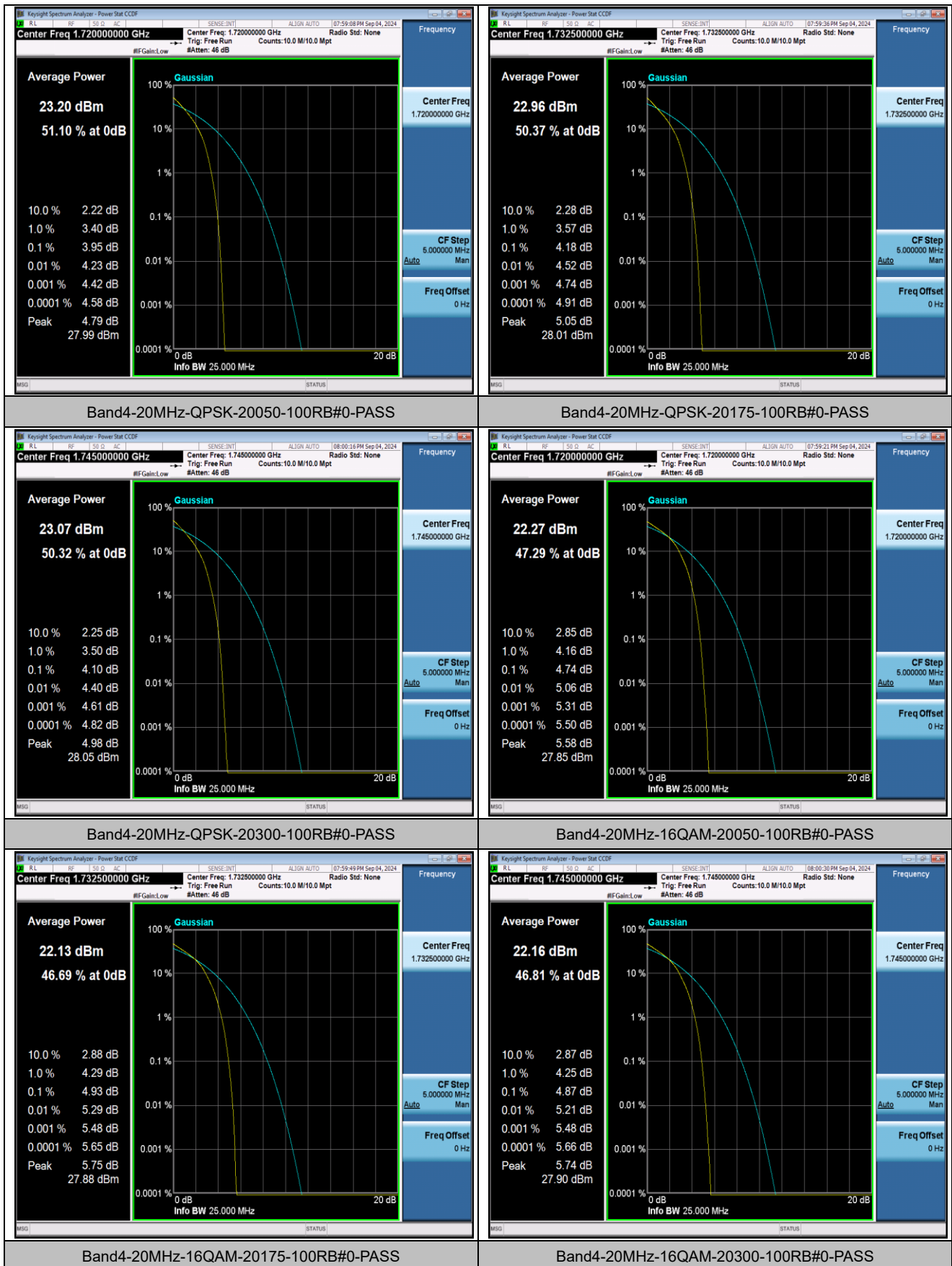
Band4	20MHz	QPSK	20175	100RB#0	23.13	25.07	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	24.12	26.06	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.32	26.26	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.07	26.01	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.26	25.2	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.32	25.26	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	24.13	26.07	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.17	25.11	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.43	24.37	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.39	25.33	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.79	25.73	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.18	25.12	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.18	24.12	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.92	24.86	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.16	25.1	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.04	24.98	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.33	24.27	30.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	3.95	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.18	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.10	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	4.74	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	4.93	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	4.87	13	PASS

Test Graphs

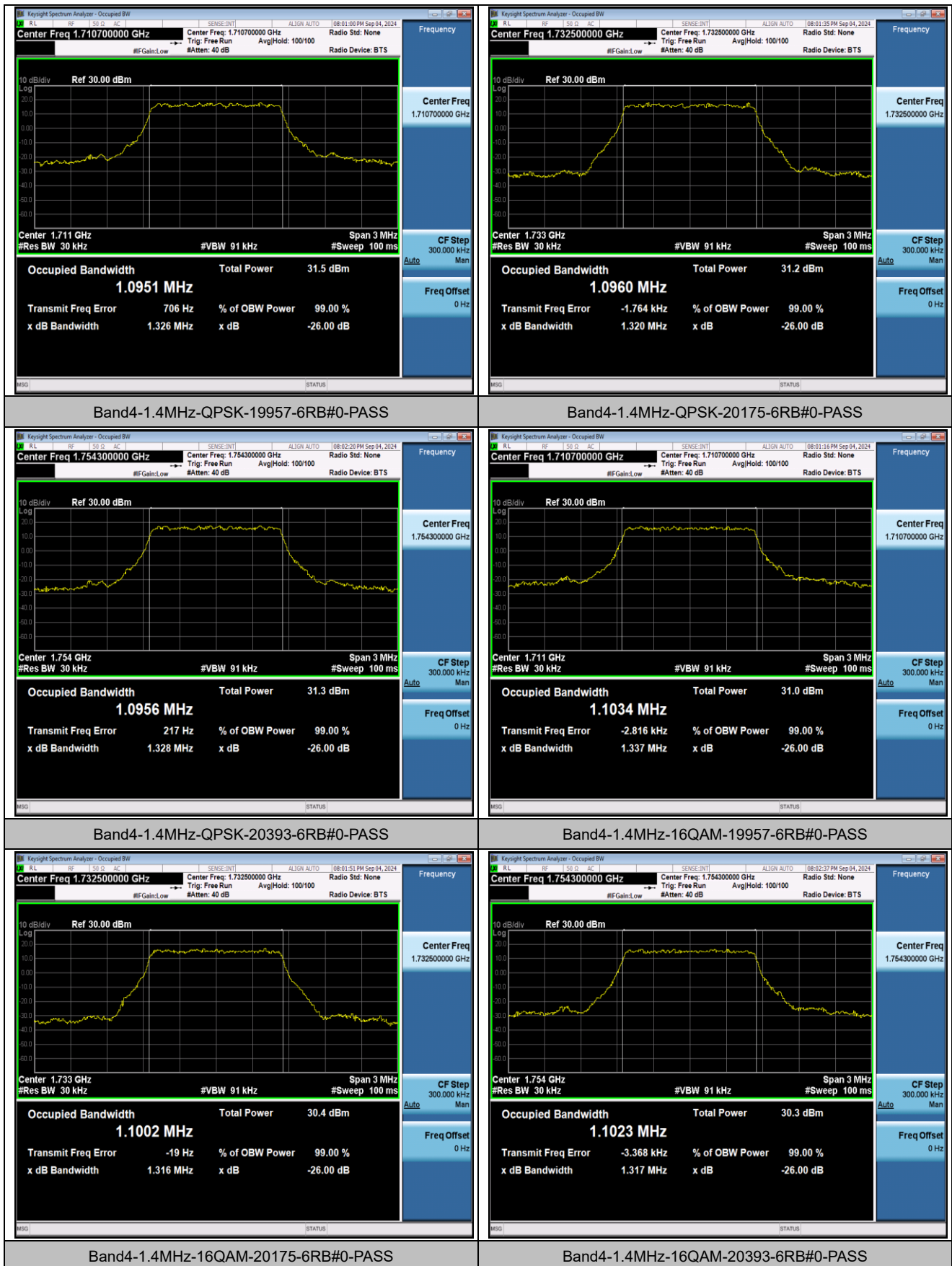


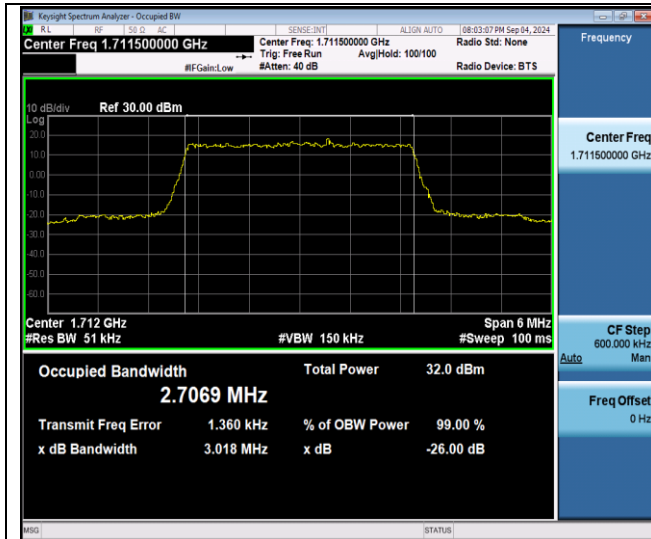
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0951	1.326	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0960	1.320	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0956	1.328	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.1034	1.337	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1002	1.316	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.1023	1.317	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.7069	3.018	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6952	2.986	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7065	2.999	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.7000	2.978	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6981	2.980	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6990	2.983	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5079	5.038	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4987	5.024	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5129	5.030	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5070	5.037	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5149	5.046	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5080	5.001	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9700	10.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9735	9.928	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9628	10.02	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9754	9.945	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9649	9.929	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9631	9.928	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.470	14.89	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.437	14.84	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.88	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.454	14.74	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.461	14.85	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.459	14.69	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.915	19.52	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.940	19.70	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.891	19.49	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.920	19.58	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.908	19.56	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.938	19.53	PASS

Test Graphs

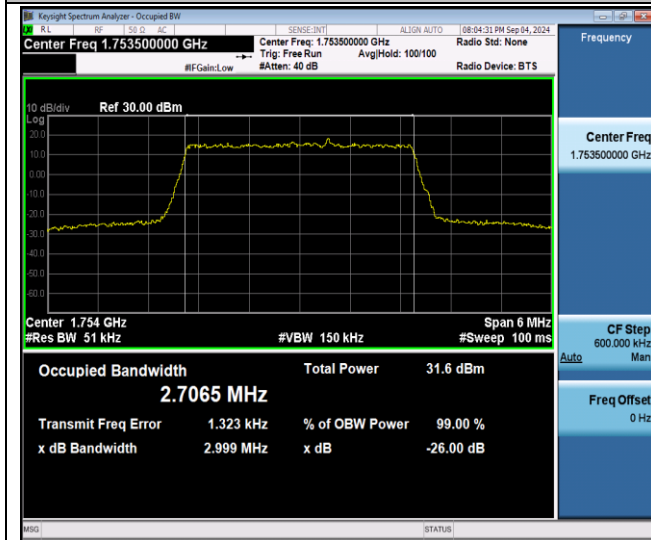




Band4-3MHz-QPSK-19965-15RB#0-PASS



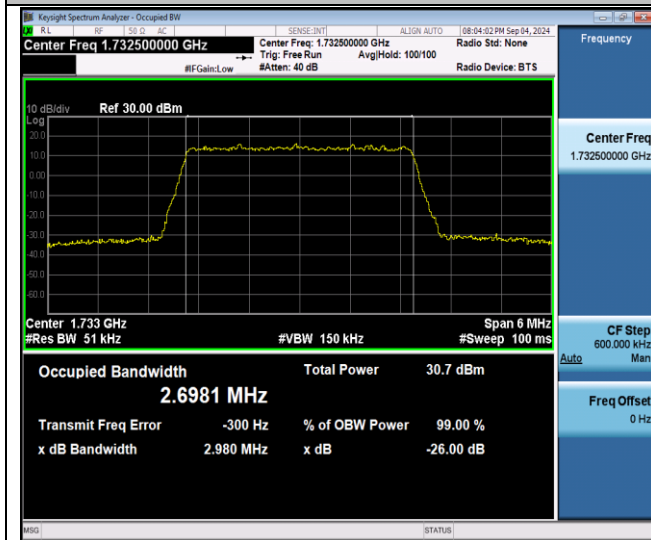
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Band4-3MHz-QPSK-20385-15RB#0-PASS



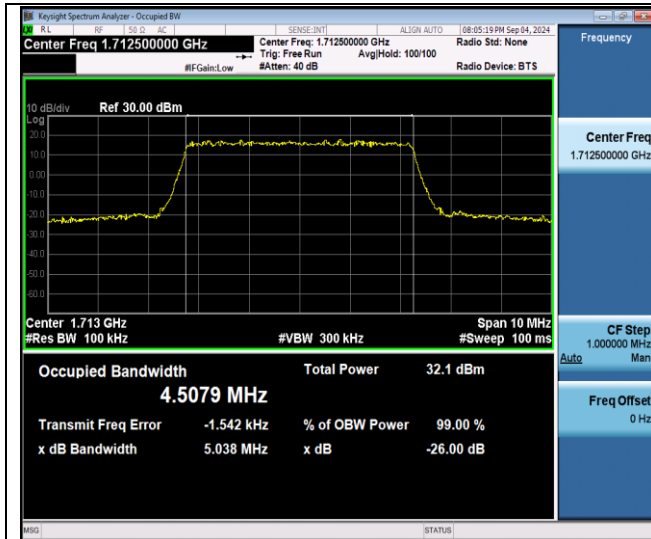
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Band4-3MHz-16QAM-20175-15RB#0-PASS



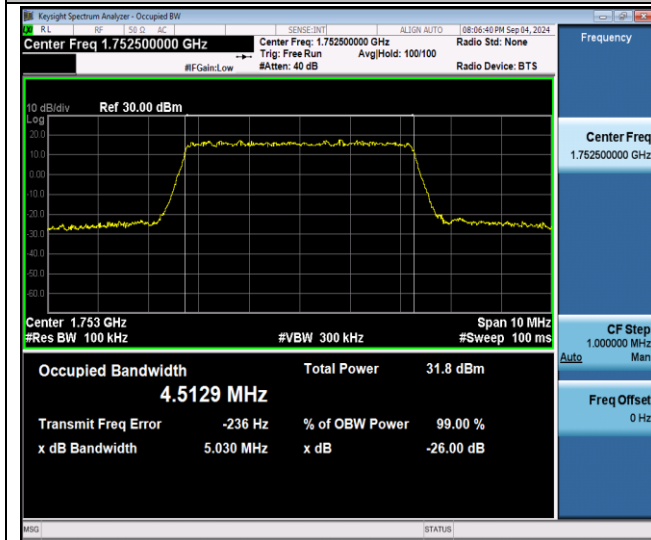
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Band4-5MHz-QPSK-19975-25RB#0-PASS



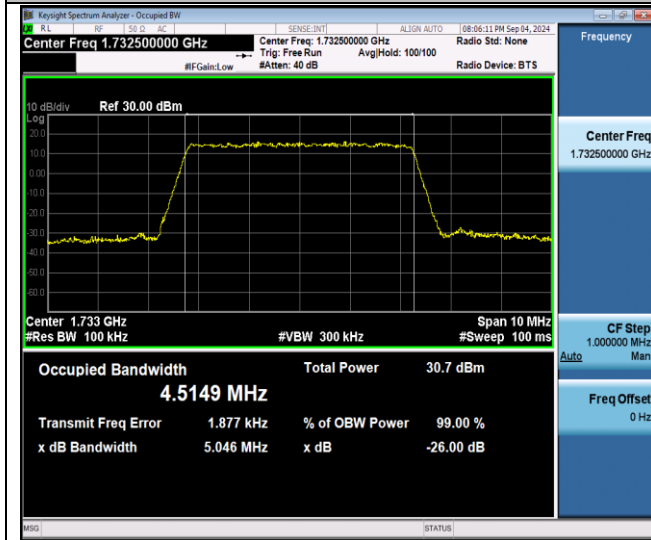
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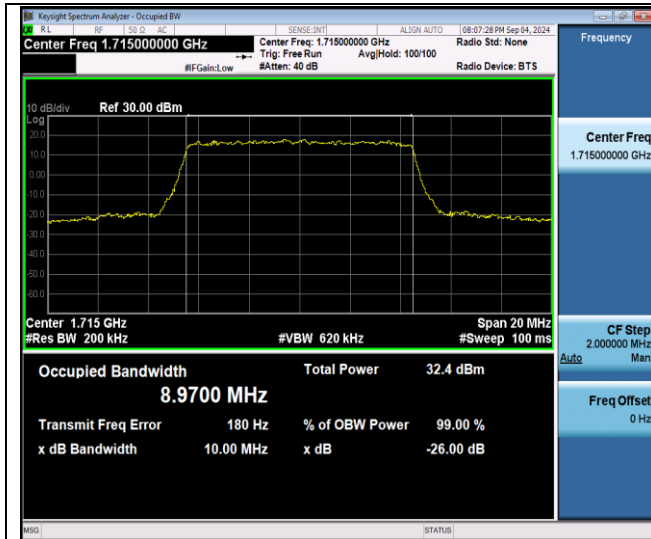
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Band4-5MHz-16QAM-20175-25RB#0-PASS



Band4-5MHz-16QAM-20375-25RB#0-PASS



Band4-10MHz-QPSK-20000-50RB#0-PASS



Band4-10MHz-QPSK-20175-50RB#0-PASS



Band4-10MHz-QPSK-20350-50RB#0-PASS



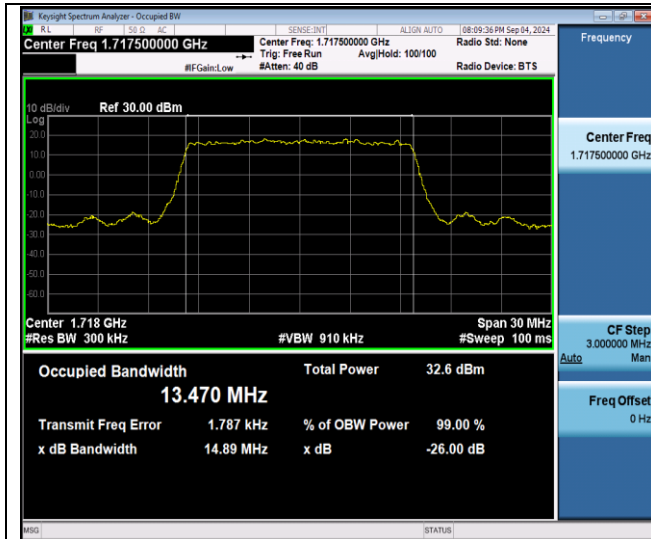
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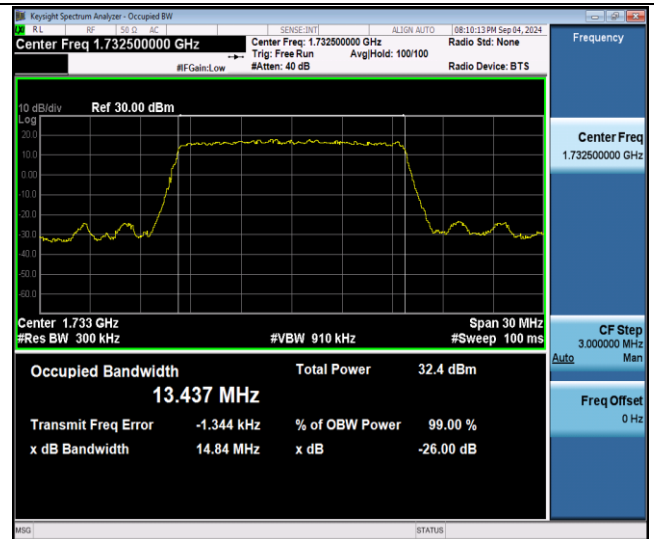
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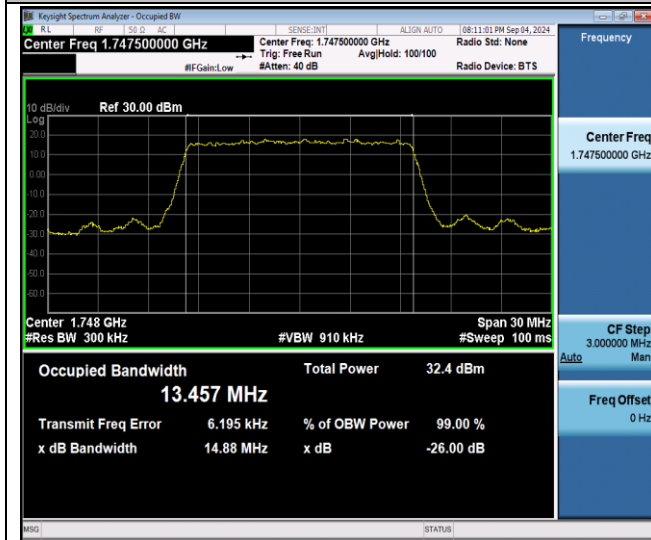
Band4-10MHz-16QAM-20000-50RB#0-PASS



Band4-15MHz-QPSK-20025-75RB#0-PASS



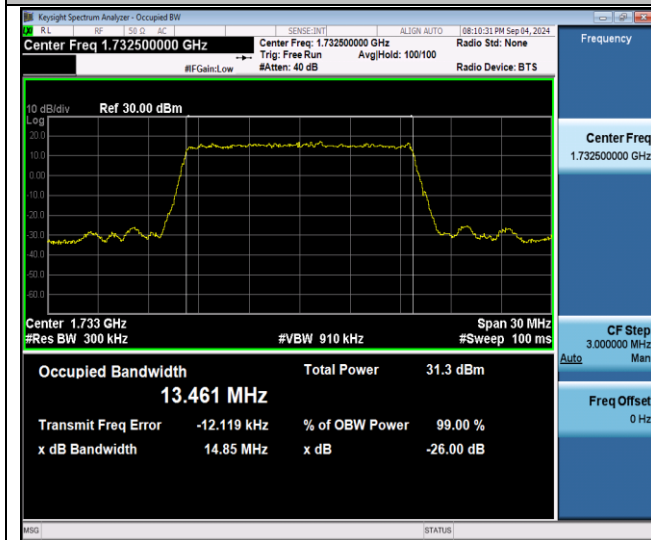
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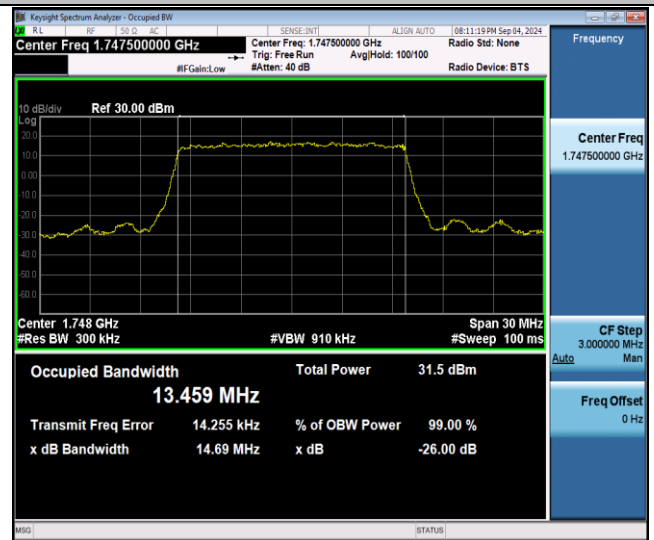
Band4-15MHz-QPSK-20325-75RB#0-PASS



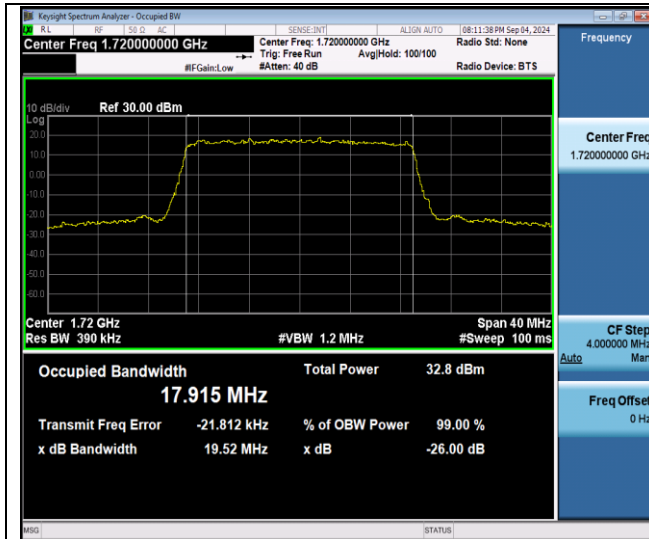
Band4-15MHz-16QAM-20025-75RB#0-PASS



Band4-15MHz-16QAM-20175-75RB#0-PASS



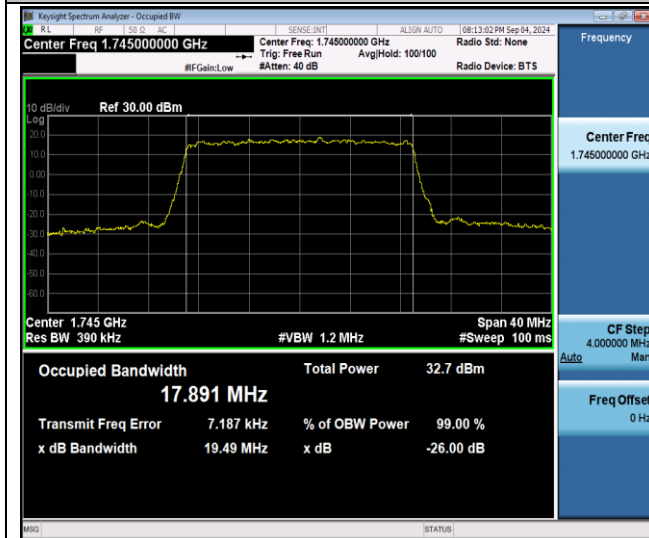
Band4-15MHz-16QAM-20325-75RB#0-PASS



Band4-20MHz-QPSK-20050-100RB#0-PASS



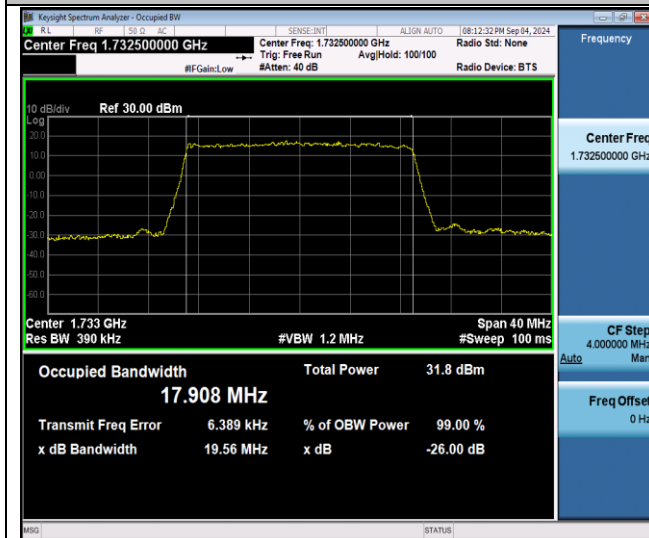
Band4-20MHz-QPSK-20175-100RB#0-PASS



Band4-20MHz-QPSK-20300-100RB#0-PASS



Band4-20MHz-16QAM-20050-100RB#0-PASS



Band4-20MHz-16QAM-20175-100RB#0-PASS



Band4-20MHz-16QAM-20300-100RB#0-PASS