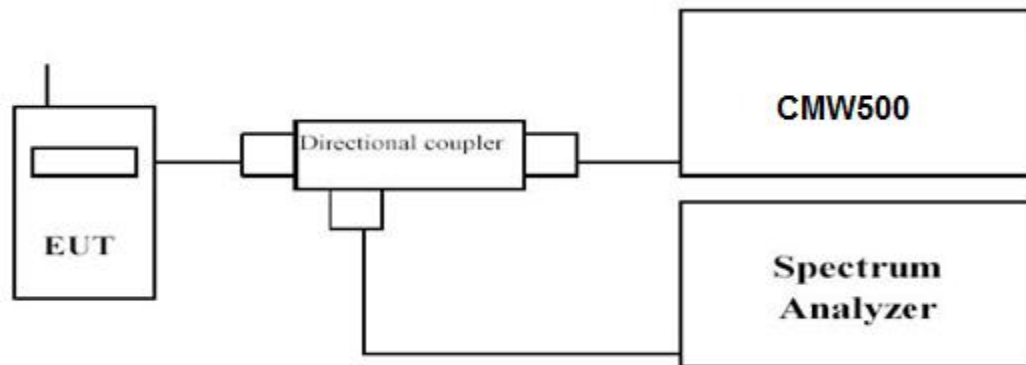


4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded.

Set RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW.

-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

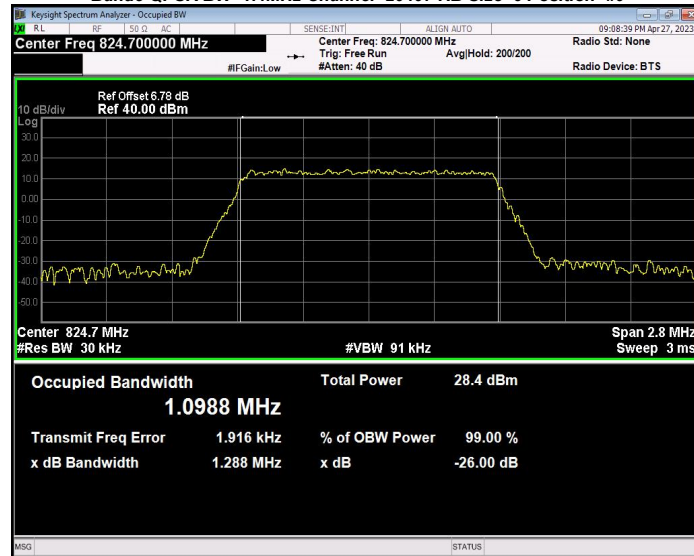
TEST RESULTS

Occupied bandwidth								
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band5	1.4	20407	6	#0	QPSK	1.099	1.288	PASS
Band5	1.4	20407	6	#0	QAM16	1.090	1.258	PASS
Band5	1.4	20525	6	#0	QPSK	1.099	1.276	PASS
Band5	1.4	20525	6	#0	QAM16	1.100	1.289	PASS
Band5	1.4	20643	6	#0	QPSK	1.098	1.267	PASS
Band5	1.4	20643	6	#0	QAM16	1.093	1.271	PASS
Band5	3	20415	15	#0	QPSK	2.684	2.983	PASS
Band5	3	20415	15	#0	QAM16	2.686	2.985	PASS
Band5	3	20525	15	#0	QPSK	2.689	2.928	PASS
Band5	3	20525	15	#0	QAM16	2.683	2.971	PASS
Band5	3	20635	15	#0	QPSK	2.687	2.976	PASS
Band5	3	20635	15	#0	QAM16	2.679	2.981	PASS
Band5	5	20425	25	#0	QPSK	4.502	4.879	PASS
Band5	5	20425	25	#0	QAM16	4.510	4.863	PASS
Band5	5	20525	25	#0	QPSK	4.513	4.903	PASS
Band5	5	20525	25	#0	QAM16	4.511	4.891	PASS
Band5	5	20625	25	#0	QPSK	4.510	4.876	PASS
Band5	5	20625	25	#0	QAM16	4.507	4.861	PASS
Band5	10	20450	50	#0	QPSK	9.003	9.741	PASS
Band5	10	20450	50	#0	QAM16	8.995	9.646	PASS
Band5	10	20525	50	#0	QPSK	8.951	9.685	PASS
Band5	10	20525	50	#0	QAM16	8.963	9.701	PASS
Band5	10	20600	50	#0	QPSK	8.979	9.690	PASS
Band5	10	20600	50	#0	QAM16	9.000	9.678	PASS
Band38	5	37775	25	#0	QPSK	4.509	4.909	PASS
Band38	5	37775	25	#0	QAM16	4.497	4.801	PASS
Band38	5	38000	25	#0	QPSK	4.521	4.869	PASS
Band38	5	38000	25	#0	QAM16	4.487	4.879	PASS
Band38	5	38225	25	#0	QPSK	4.504	4.823	PASS

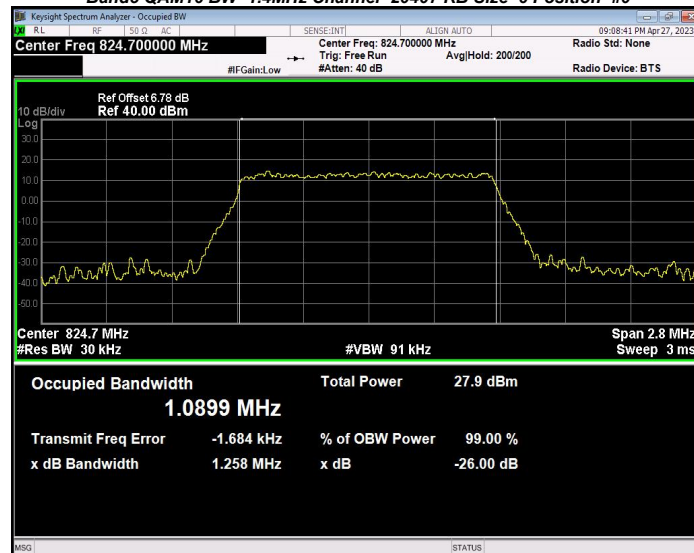
Band38	5	38225	25	#0	QAM16	4.482	4.936	PASS
Band38	10	37800	50	#0	QPSK	8.943	9.594	PASS
Band38	10	37800	50	#0	QAM16	8.988	9.675	PASS
Band38	10	38000	50	#0	QPSK	8.970	9.698	PASS
Band38	10	38000	50	#0	QAM16	8.983	9.590	PASS
Band38	10	38200	50	#0	QPSK	8.986	9.516	PASS
Band38	10	38200	50	#0	QAM16	9.000	9.972	PASS
Band38	15	37825	75	#0	QPSK	13.467	14.479	PASS
Band38	15	37825	75	#0	QAM16	13.487	14.225	PASS
Band38	15	38000	75	#0	QPSK	13.415	14.346	PASS
Band38	15	38000	75	#0	QAM16	13.388	14.224	PASS
Band38	15	38175	75	#0	QPSK	13.480	14.961	PASS
Band38	15	38175	75	#0	QAM16	13.448	14.586	PASS
Band38	20	37850	100	#0	QPSK	18.032	18.982	PASS
Band38	20	37850	100	#0	QAM16	17.932	19.207	PASS
Band38	20	38000	100	#0	QPSK	17.924	19.213	PASS
Band38	20	38000	100	#0	QAM16	17.845	19.137	PASS
Band38	20	38150	100	#0	QPSK	17.962	19.229	PASS
Band38	20	38150	100	#0	QAM16	17.939	19.264	PASS
Band40(2350-2360)	5	39175	25	#0	QPSK	4.507	4.820	PASS
Band40(2350-2360)	5	39175	25	#0	QAM16	4.492	5.034	PASS
Band40(2350-2360)	5	39200	25	#0	QPSK	4.503	4.959	PASS
Band40(2350-2360)	5	39200	25	#0	QAM16	4.491	4.826	PASS
Band40(2350-2360)	5	39225	25	#0	QPSK	4.500	4.860	PASS
Band40(2350-2360)	5	39225	25	#0	QAM16	4.496	4.966	PASS
Band40(2350-2360)	10	39200	50	#0	QPSK	8.962	9.579	PASS
Band40(2350-2360)	10	39200	50	#0	QAM16	8.986	9.646	PASS
Band40(2305-2315)	5	38725	25	#0	QPSK	4.502	4.869	PASS
Band40(2305-2315)	5	38725	25	#0	QAM16	4.506	4.877	PASS
Band40(2305-2315)	5	38750	25	#0	QPSK	4.495	4.883	PASS
Band40(2305-2315)	5	38750	25	#0	QAM16	4.485	4.848	PASS
Band40(2305-2315)	5	38775	25	#0	QPSK	4.506	4.809	PASS
Band40(2305-2315)	5	38775	25	#0	QAM16	4.493	4.894	PASS
Band40(2305-2315)	10	38750	50	#0	QPSK	8.998	9.582	PASS
Band40(2305-2315)	10	38750	50	#0	QAM16	8.976	9.545	PASS
Band41	5	39675	25	#0	QPSK	6.334	9.915	PASS
Band41	5	39675	25	#0	QAM16	7.230	10.000	PASS
Band41	5	40620	25	#0	QPSK	4.513	4.873	PASS
Band41	5	40620	25	#0	QAM16	4.504	4.842	PASS
Band41	5	41565	25	#0	QPSK	4.511	4.887	PASS
Band41	5	41565	25	#0	QAM16	4.506	4.866	PASS
Band41	10	39700	50	#0	QPSK	13.034	14.610	PASS
Band41	10	39700	50	#0	QAM16	13.219	14.620	PASS
Band41	10	40620	50	#0	QPSK	9.020	9.585	PASS
Band41	10	40620	50	#0	QAM16	8.941	9.633	PASS
Band41	10	41540	50	#0	QPSK	8.979	9.669	PASS
Band41	10	41540	50	#0	QAM16	8.972	9.554	PASS
Band41	15	39725	75	#0	QPSK	16.432	21.903	PASS
Band41	15	39725	75	#0	QAM16	16.949	21.931	PASS
Band41	15	40620	75	#0	QPSK	13.454	14.324	PASS
Band41	15	40620	75	#0	QAM16	13.458	14.470	PASS
Band41	15	41515	75	#0	QPSK	13.463	14.579	PASS
Band41	15	41515	75	#0	QAM16	13.492	14.448	PASS
Band41	20	39750	100	#0	QPSK	17.138	19.944	PASS

Band41	20	39750	100	#0	QAM16	17.066	19.225	PASS
Band41	20	40620	100	#0	QPSK	17.886	19.181	PASS
Band41	20	40620	100	#0	QAM16	17.912	19.174	PASS
Band41	20	41490	100	#0	QPSK	17.976	19.641	PASS
Band41	20	41490	100	#0	QAM16	17.999	19.053	PASS

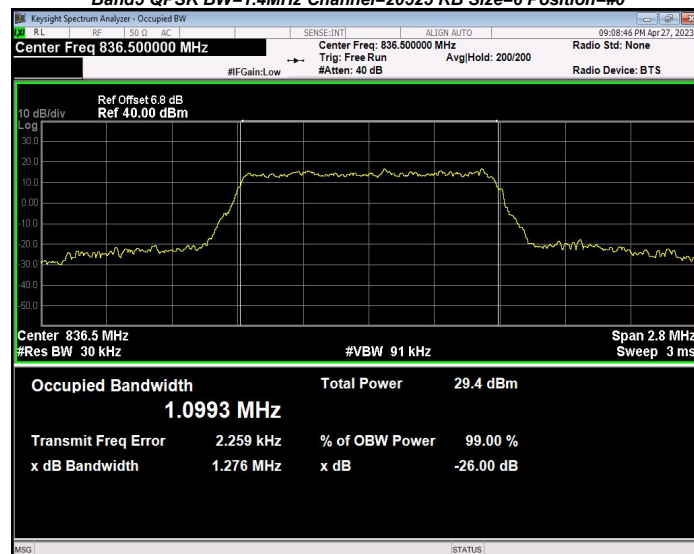
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0

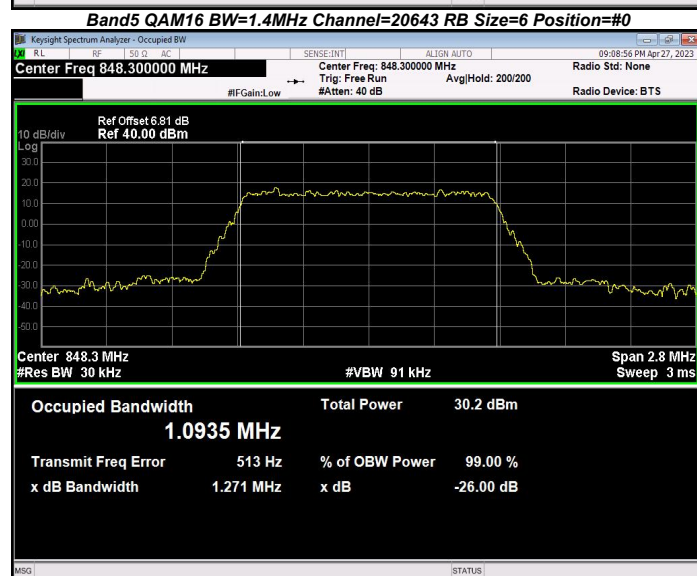
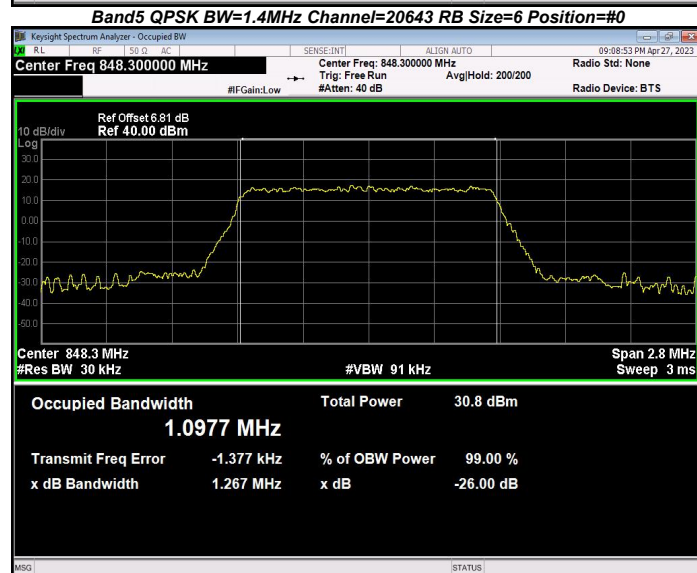
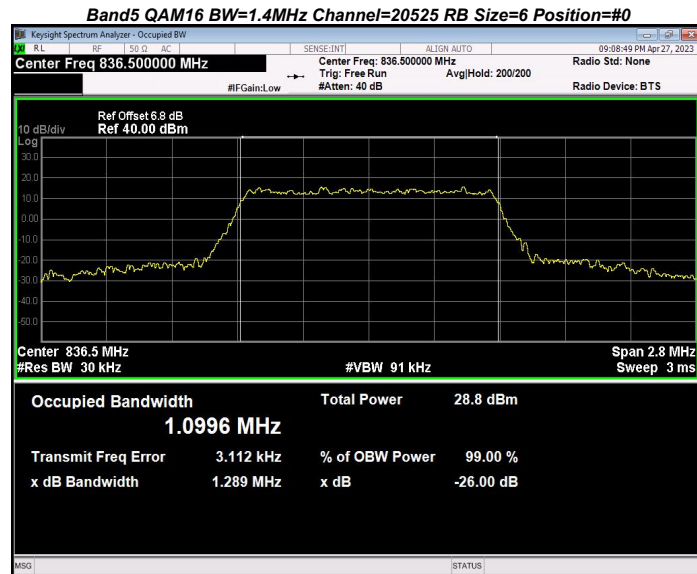


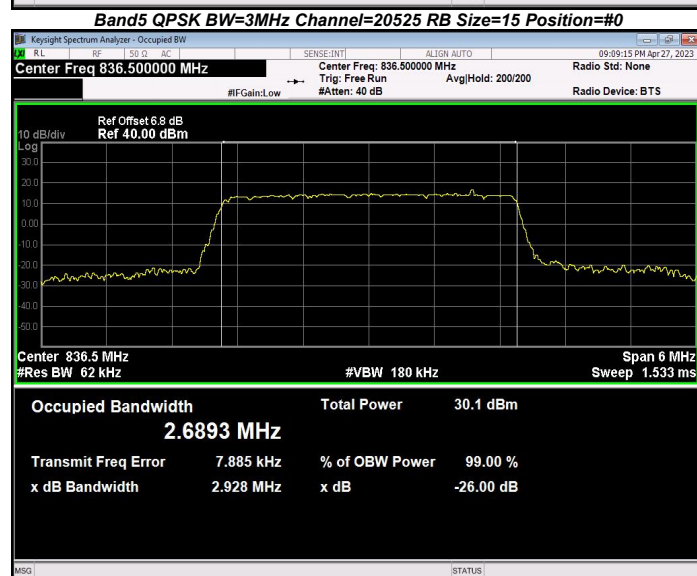
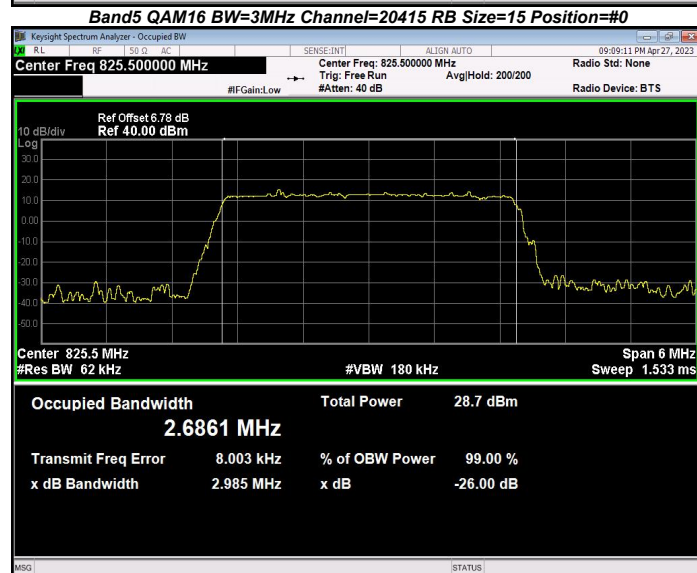
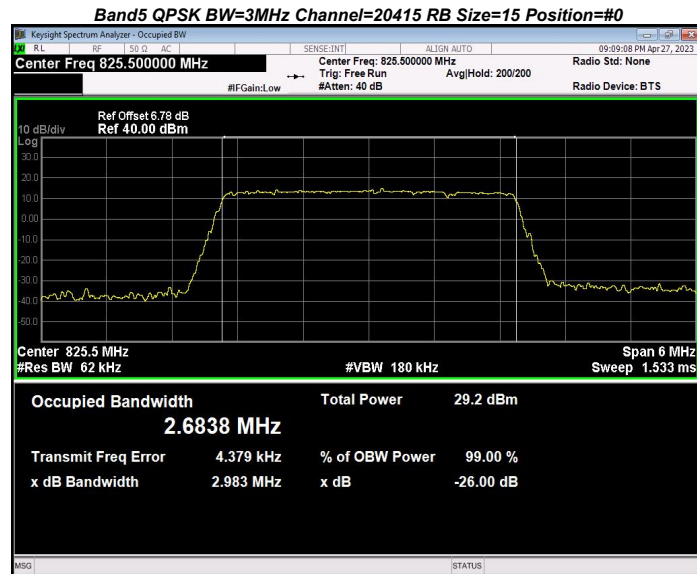
Band5 QAM16 BW=1.4MHz Channel=20407 RB Size=6 Position=#0

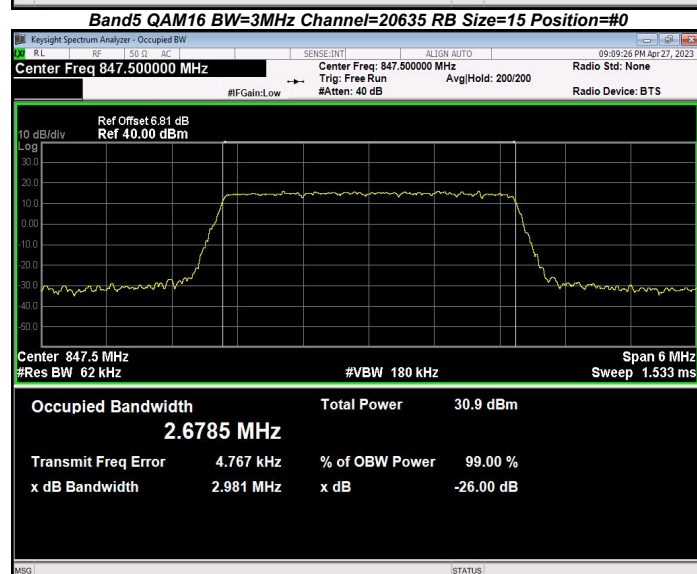
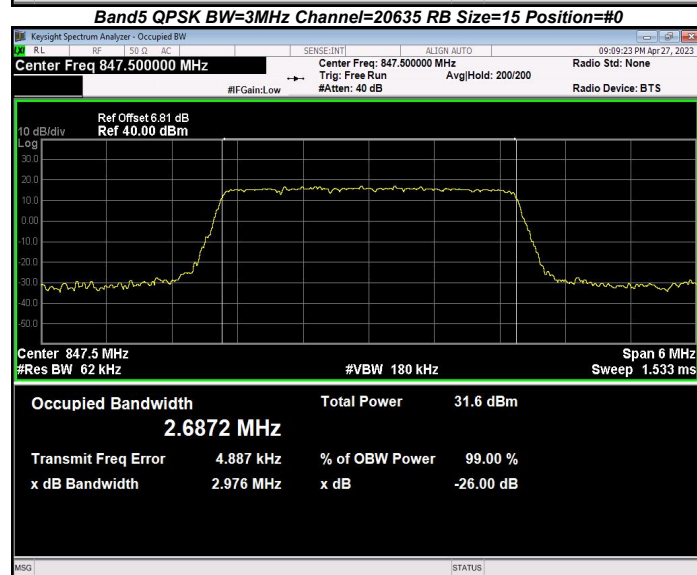
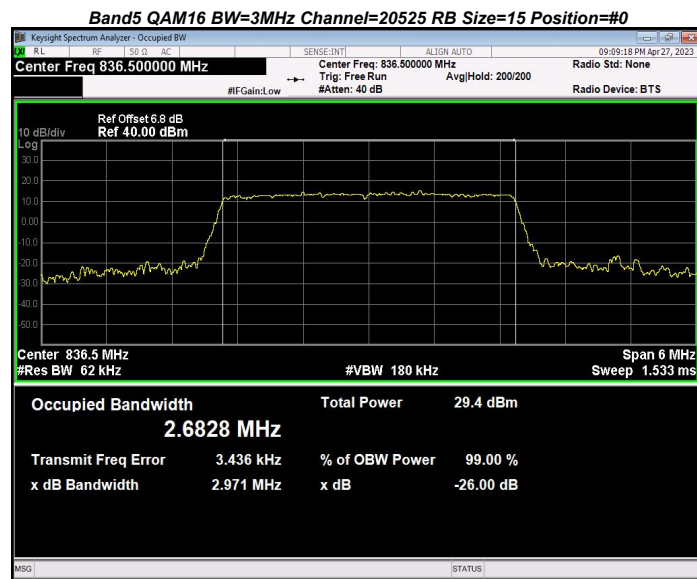


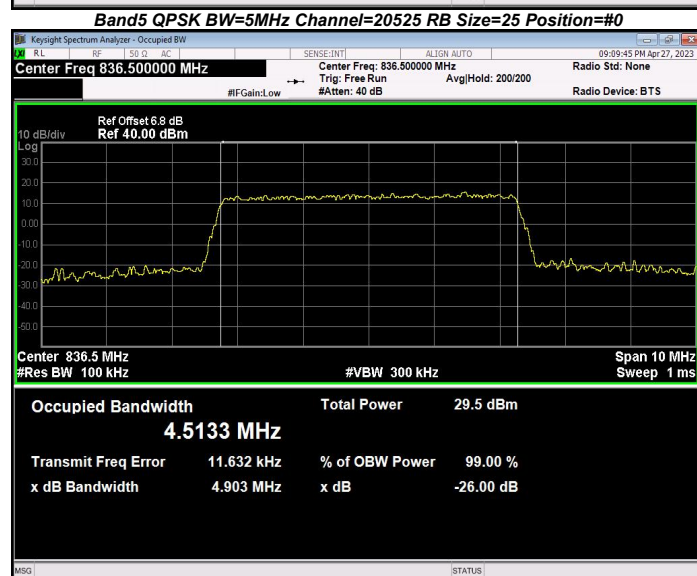
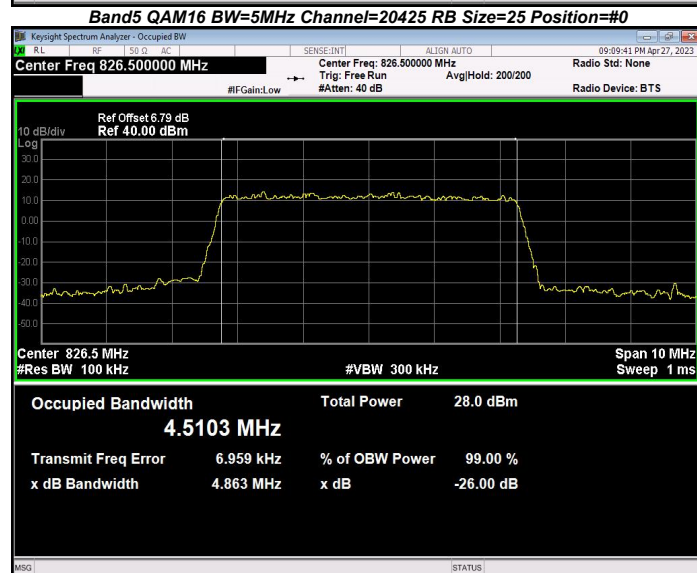
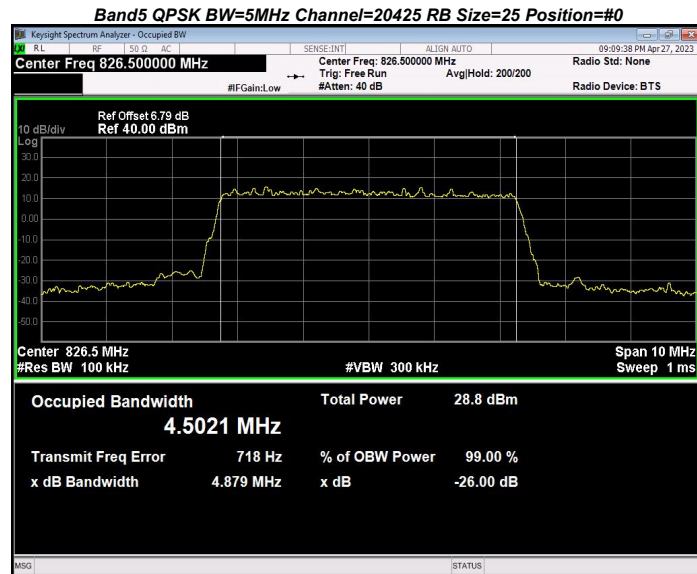
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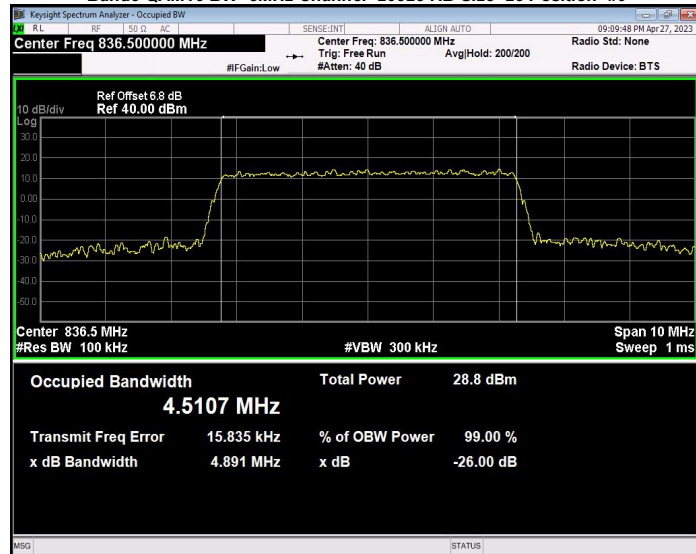
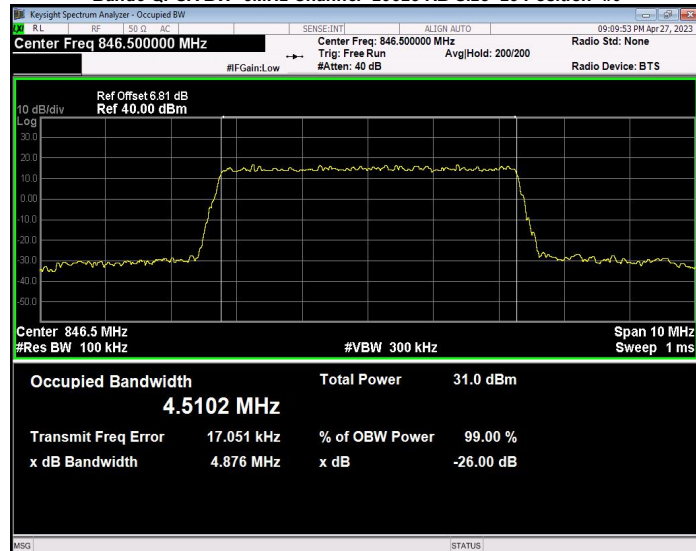
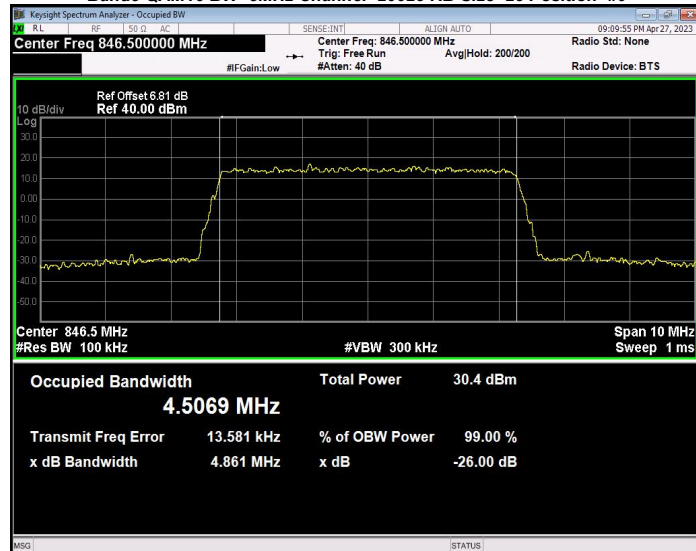


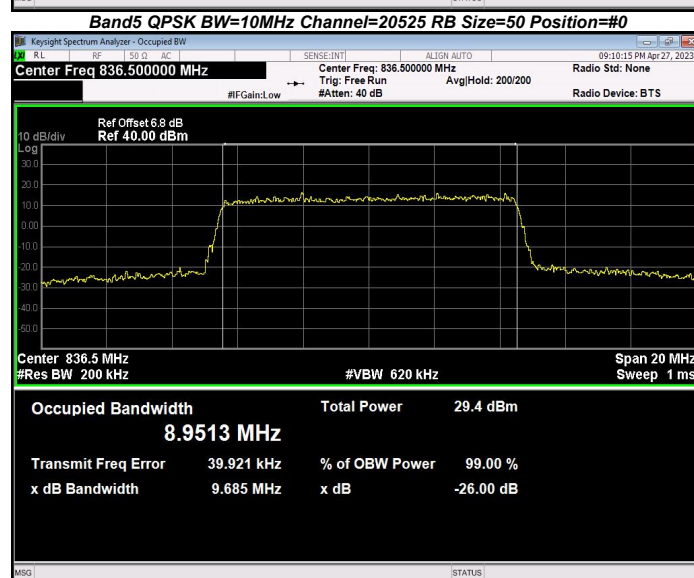
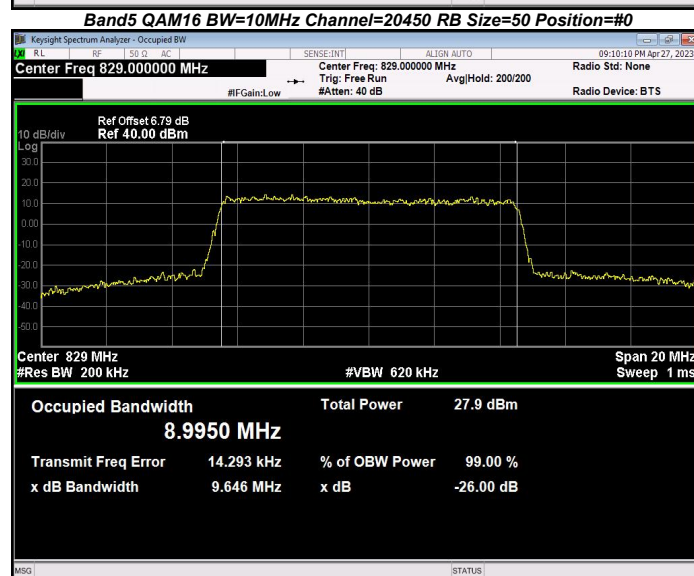
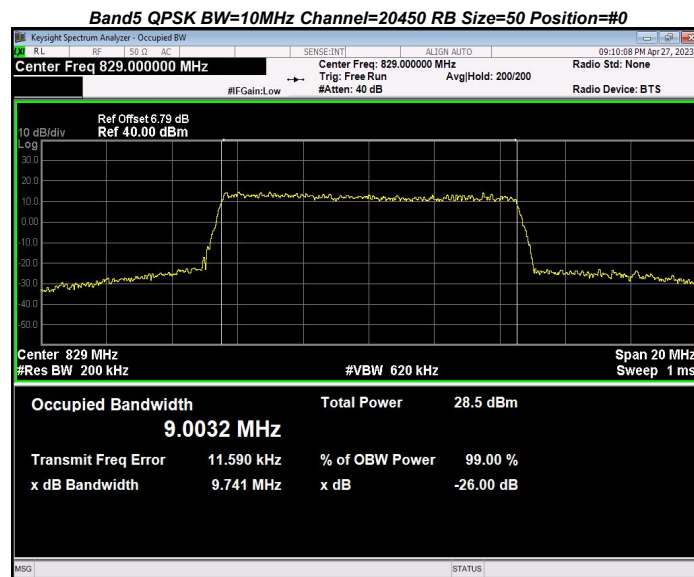


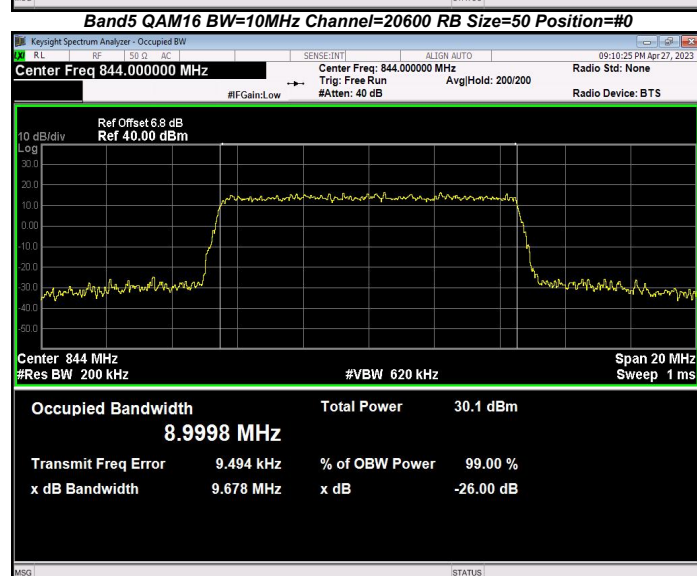
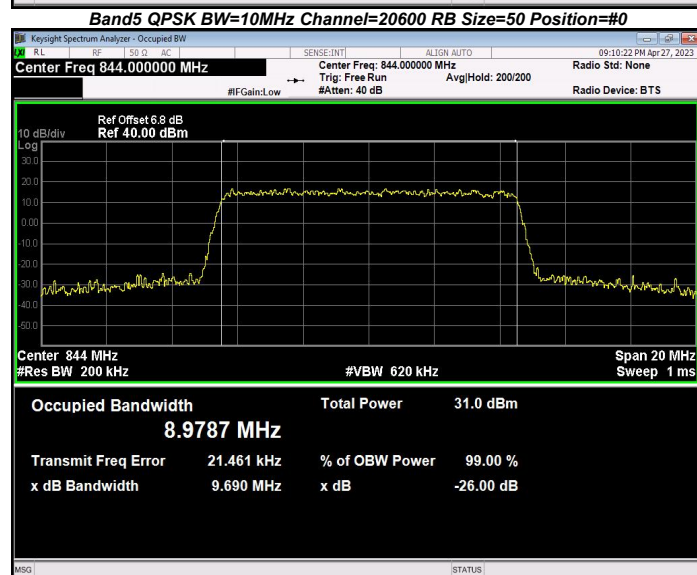
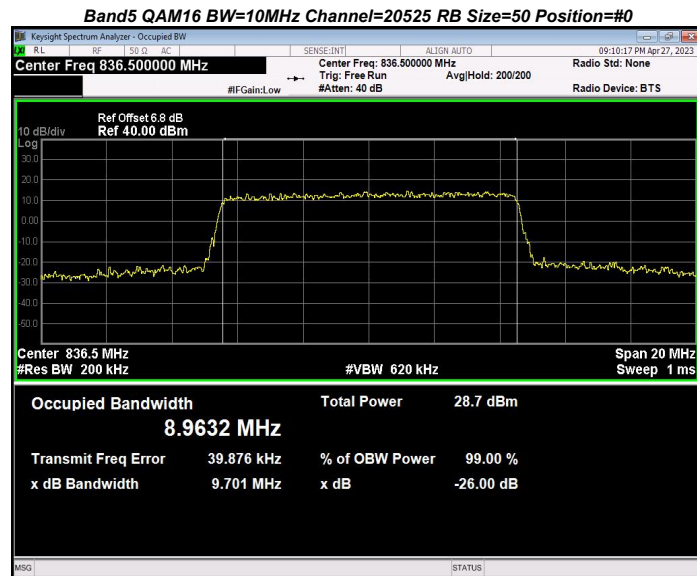


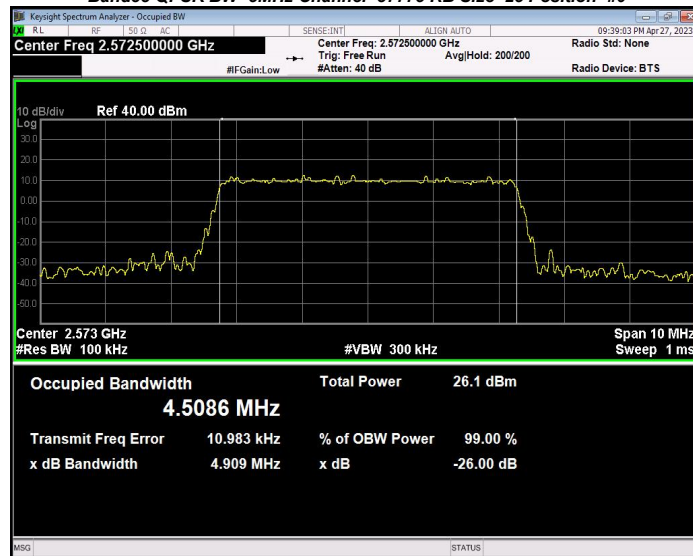
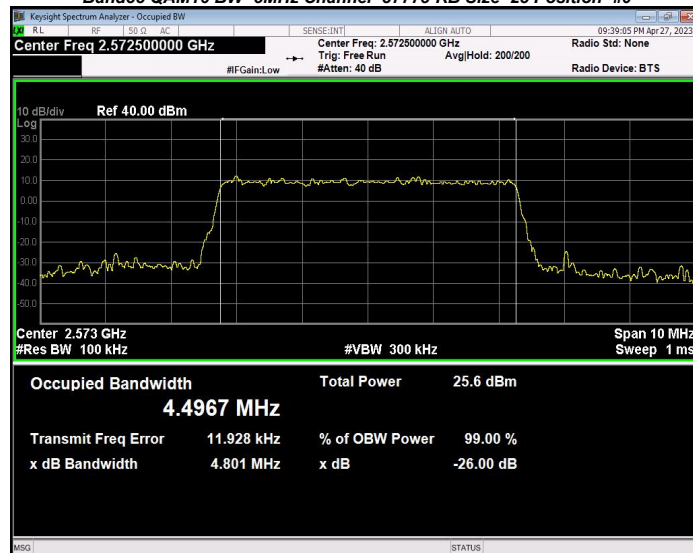
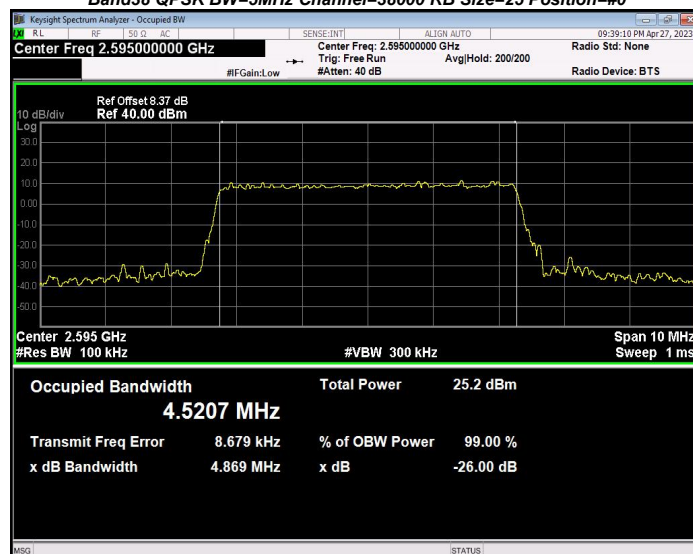


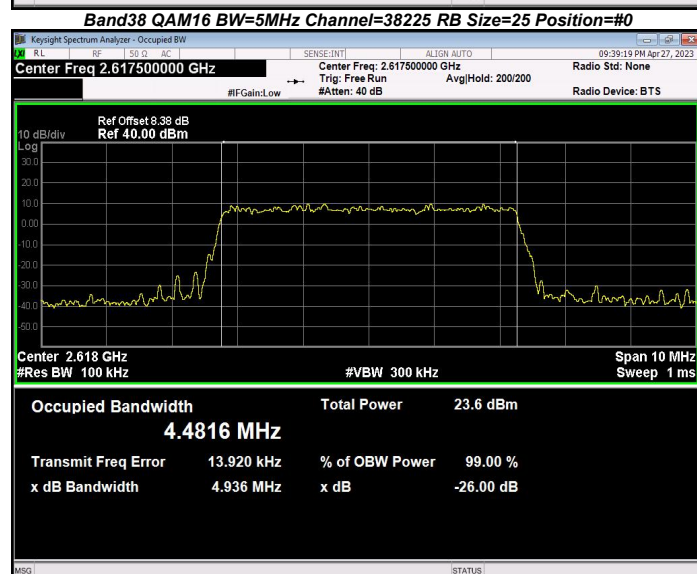
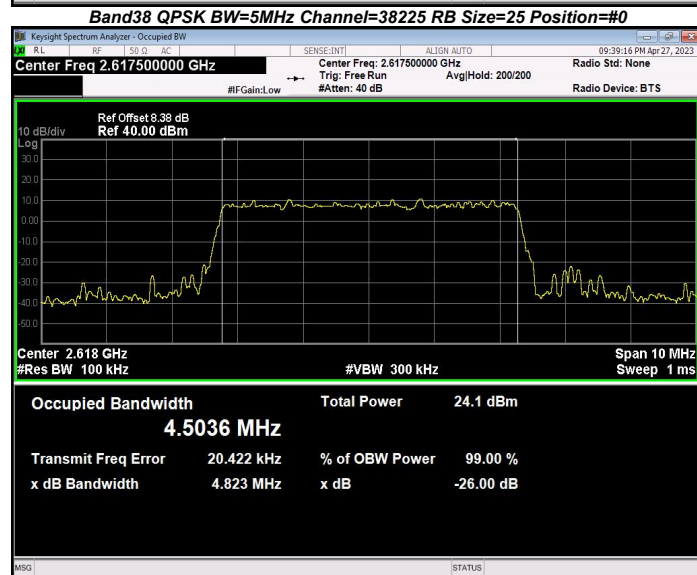
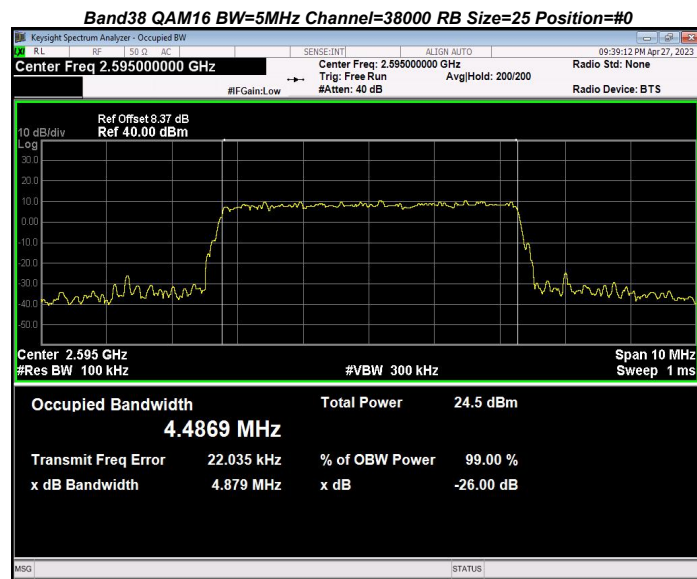


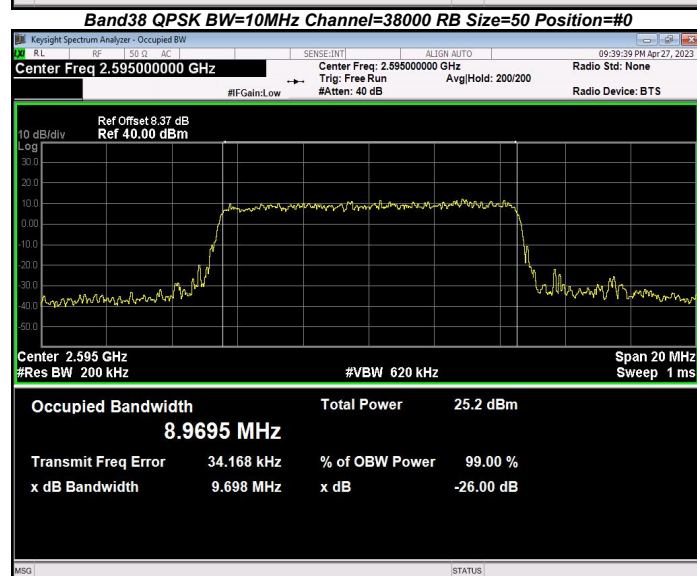
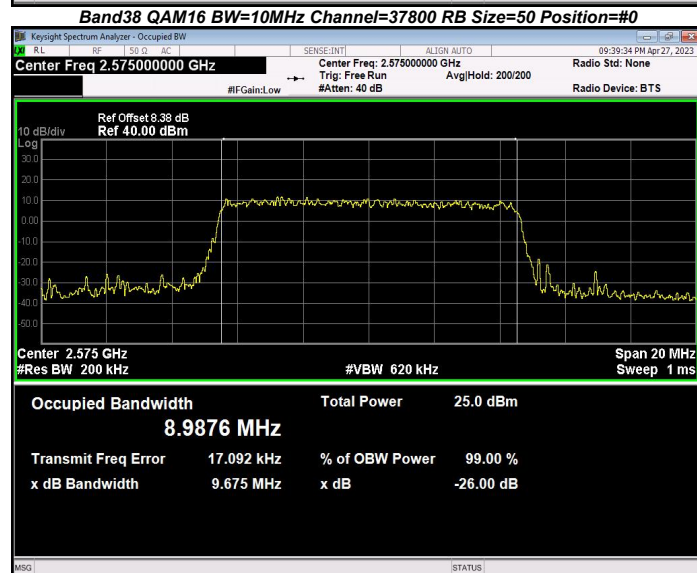
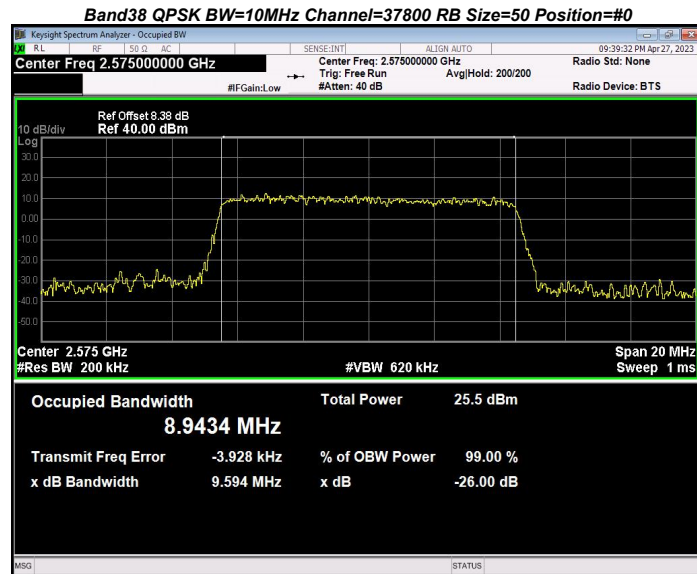
Band5 QAM16 BW=5MHz Channel=20525 RB Size=25 Position=#0**Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0****Band5 QAM16 BW=5MHz Channel=20625 RB Size=25 Position=#0**

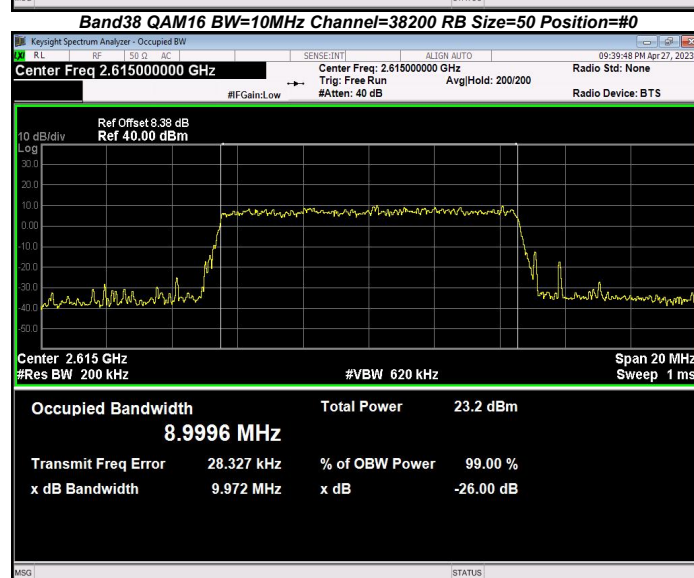
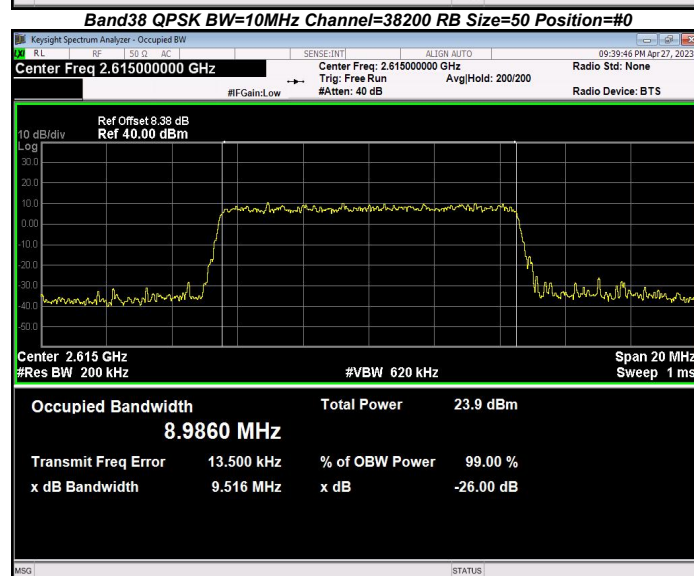
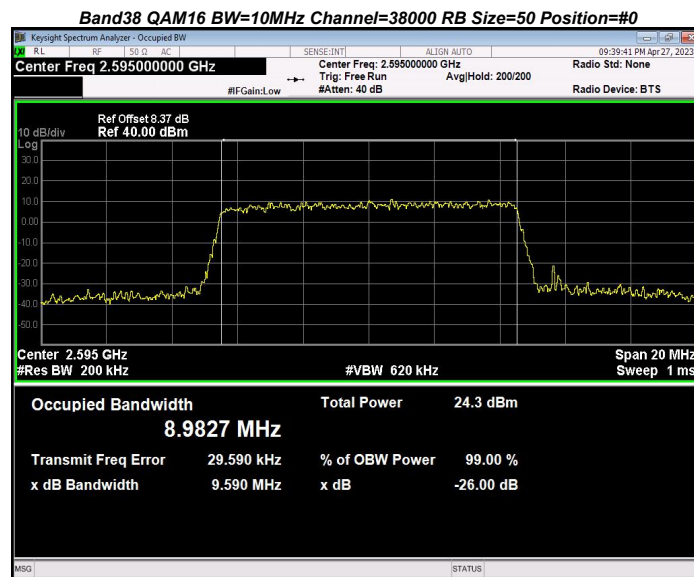


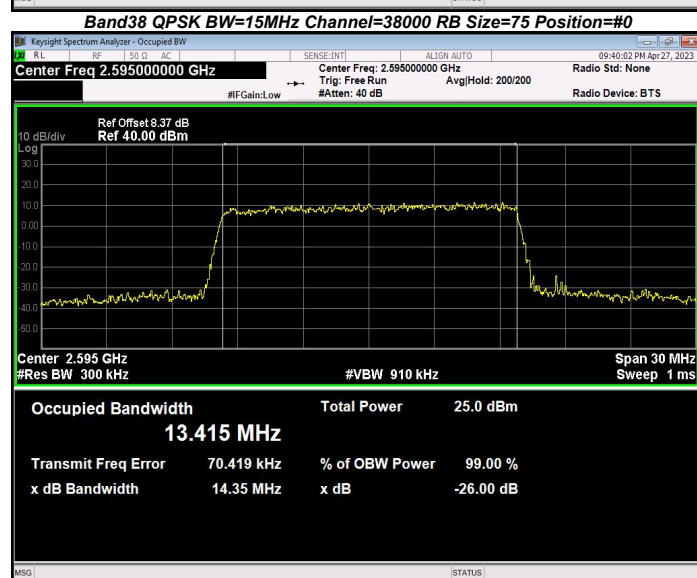
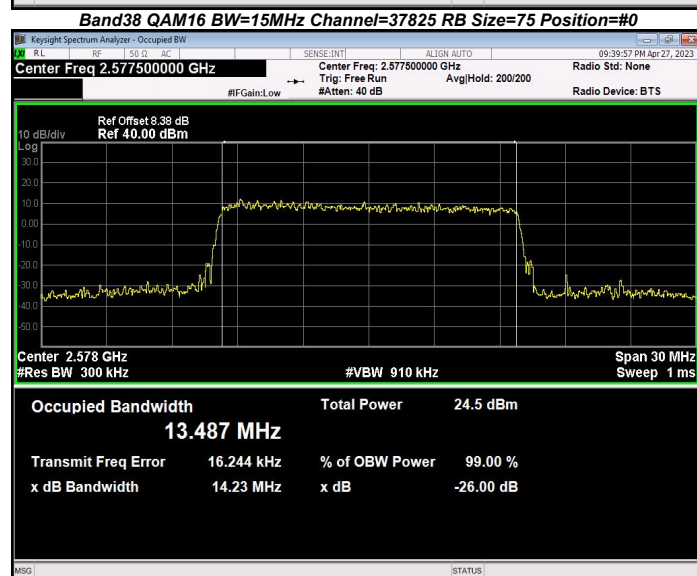
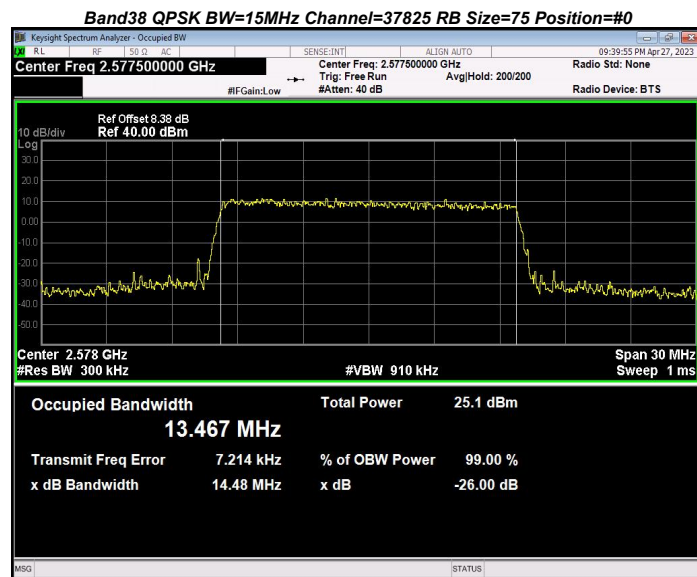


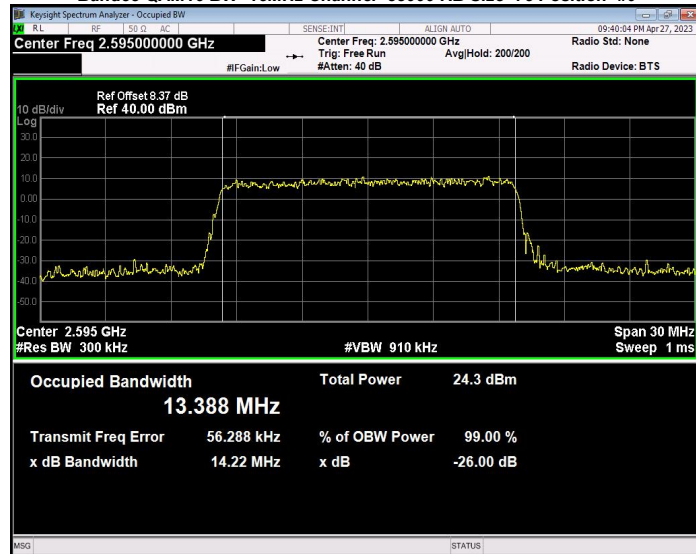
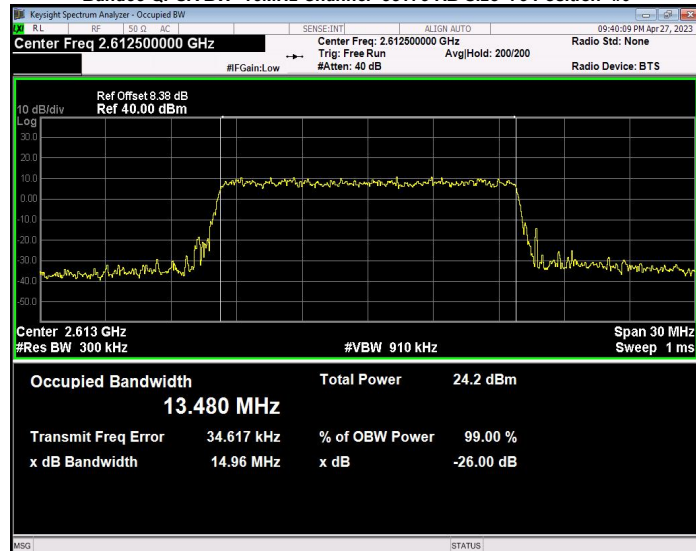
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Band38 QAM16 BW=15MHz Channel=38000 RB Size=75 Position=#0**Band38 QPSK BW=15MHz Channel=38175 RB Size=75 Position=#0****Band38 QAM16 BW=15MHz Channel=38175 RB Size=75 Position=#0**