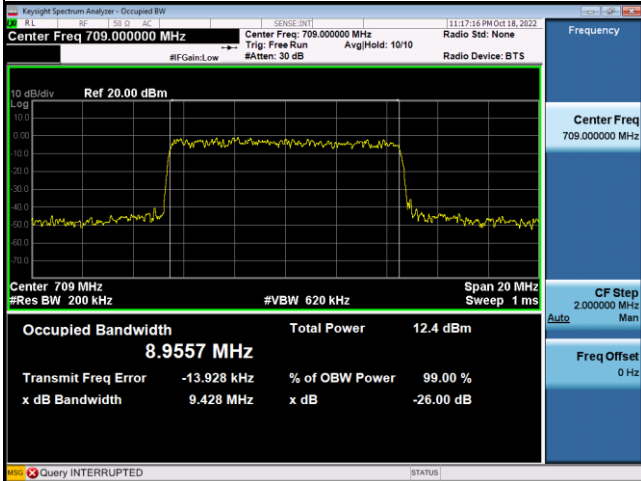
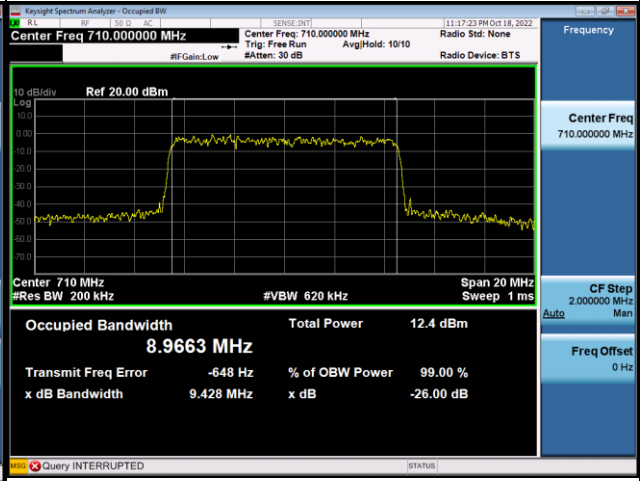


Spectrum Plot

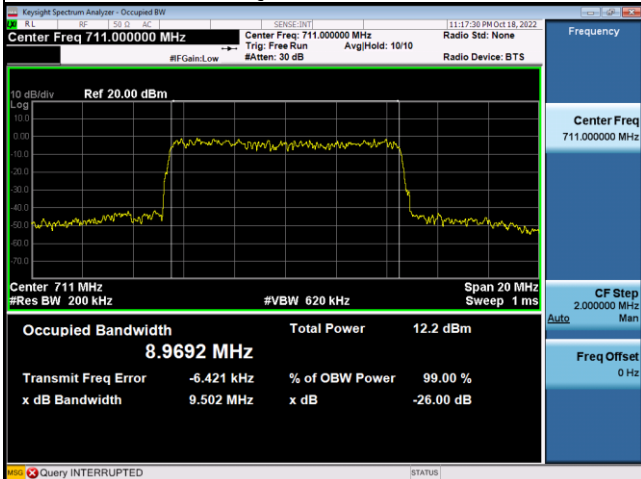
QPSK-23780



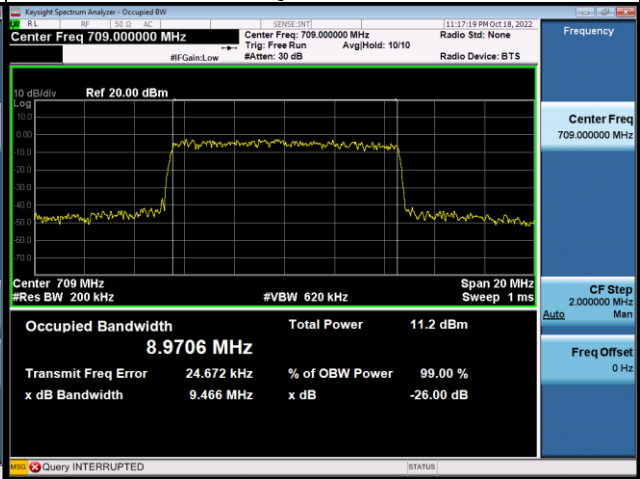
QPSK-23790



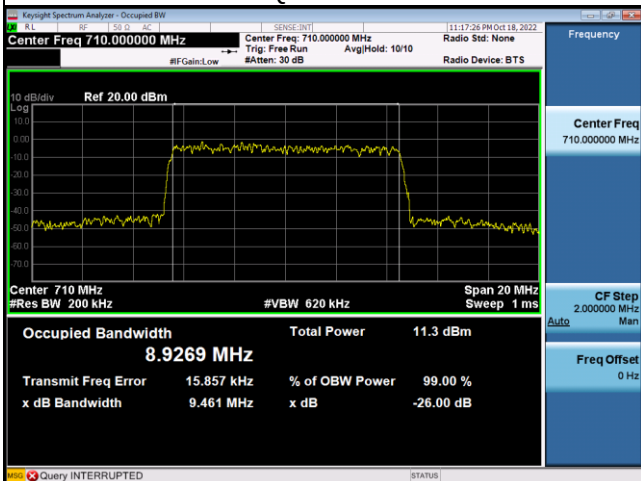
QPSK-23800



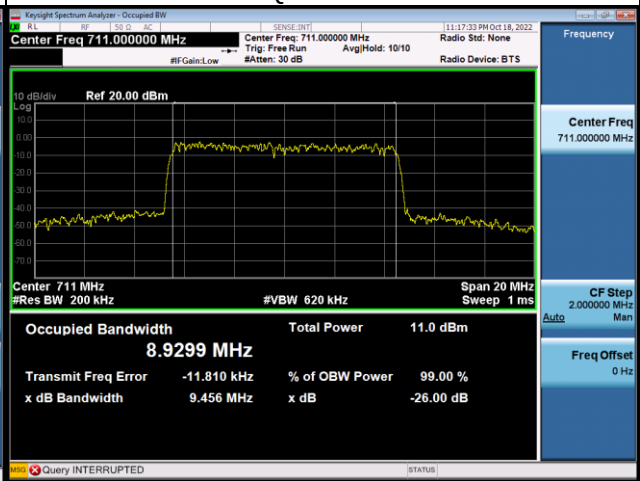
16QAM-23780



16QAM-23790

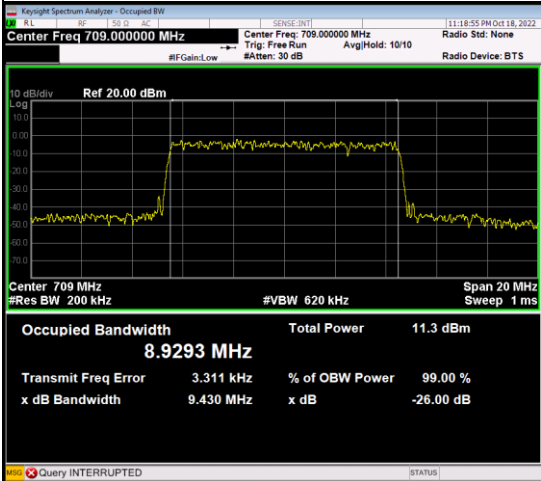


16QAM-23800

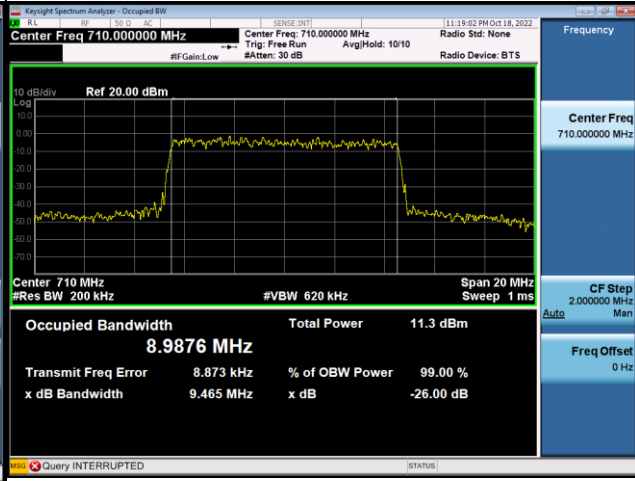


Spectrum Plot

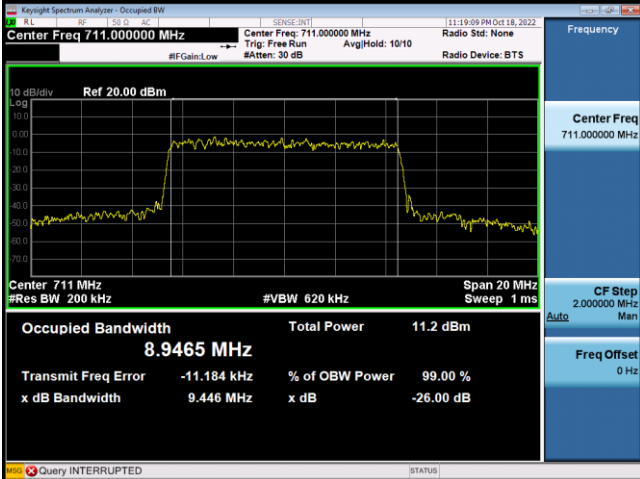
64QAM-23780



64QAM -23790



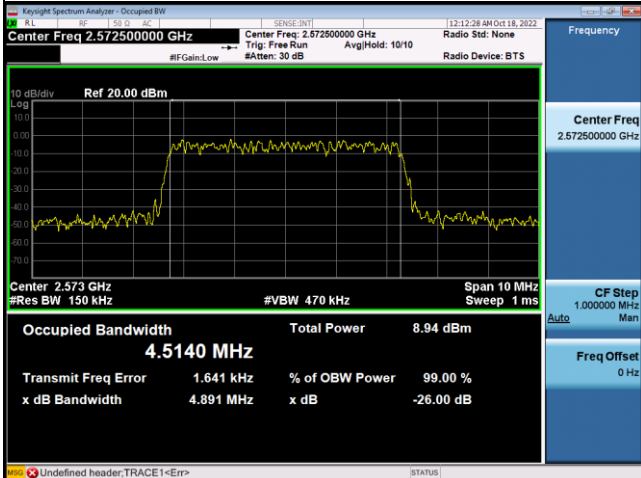
64QAM -23800



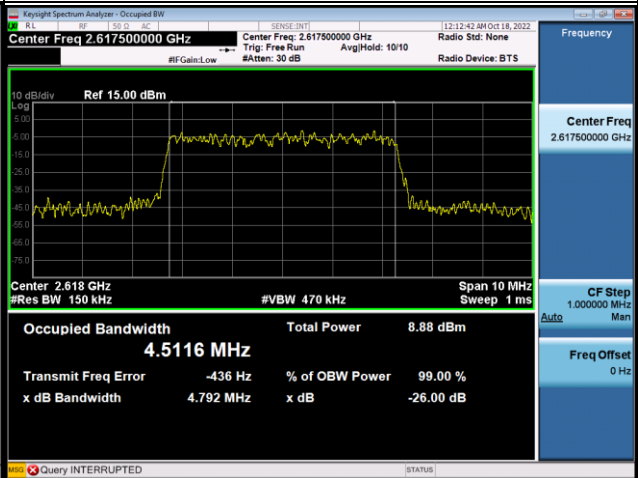
LTE Band 38_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5140	37775	2572.5	4.891
38000	2595	4.5116	38000	2595	4.792
38225	2617.5	4.5257	38225	2617.5	4.835
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5081	37775	2572.5	4.836
38000	2595	4.5188	38000	2595	4.809
38225	2617.5	4.5253	38225	2617.5	4.849
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5084	37775	2572.5	4.795
38000	2595	4.5042	38000	2595	4.806
38225	2617.5	4.4568	38225	2617.5	4.831

Spectrum Plot

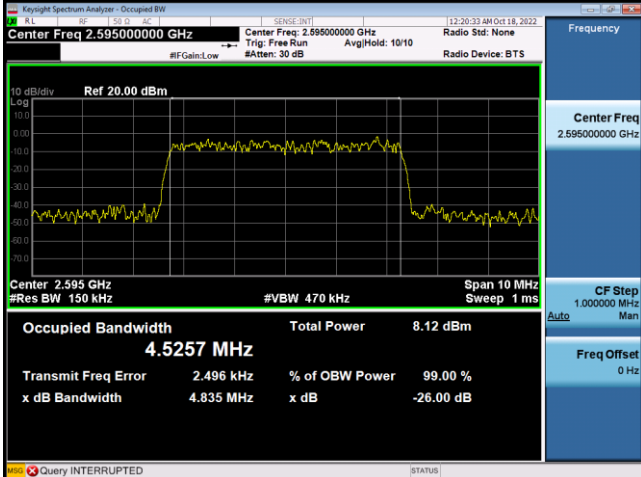
QPSK-37775



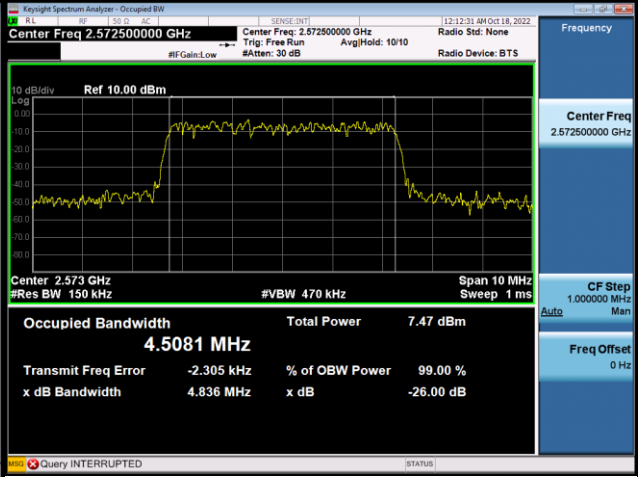
QPSK-38000



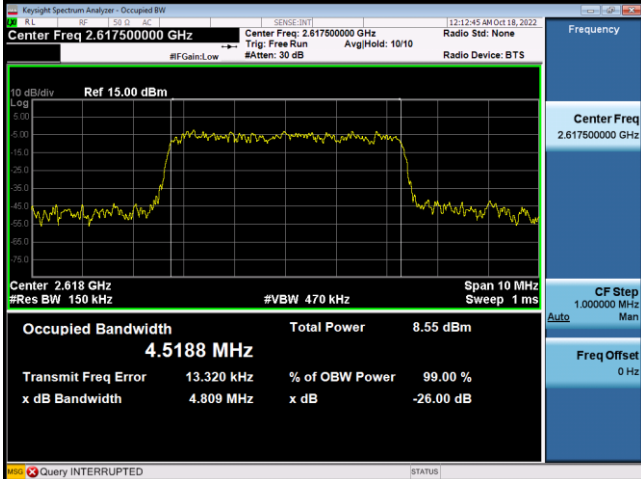
QPSK-38225



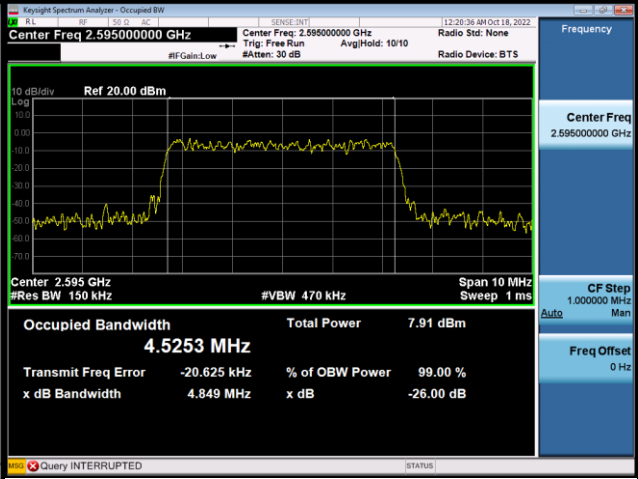
16QAM-37775



16QAM-38000

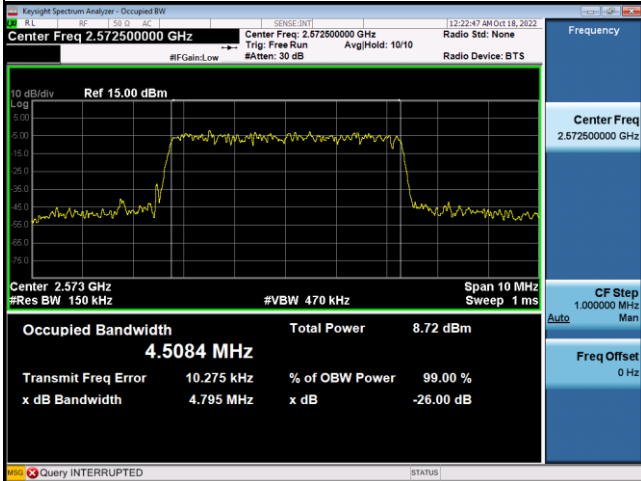


16QAM-38225

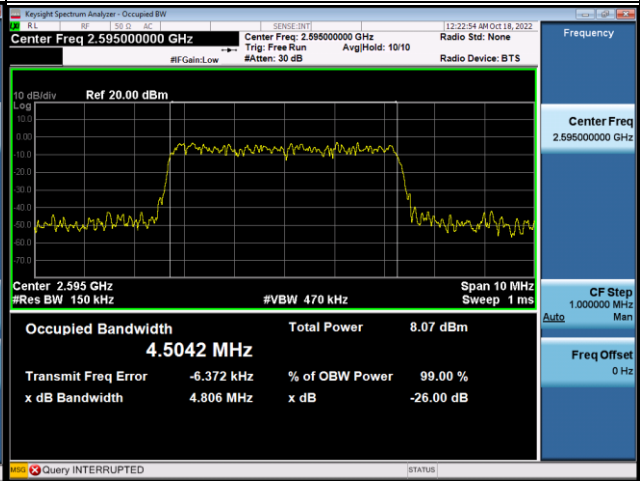


Spectrum Plot

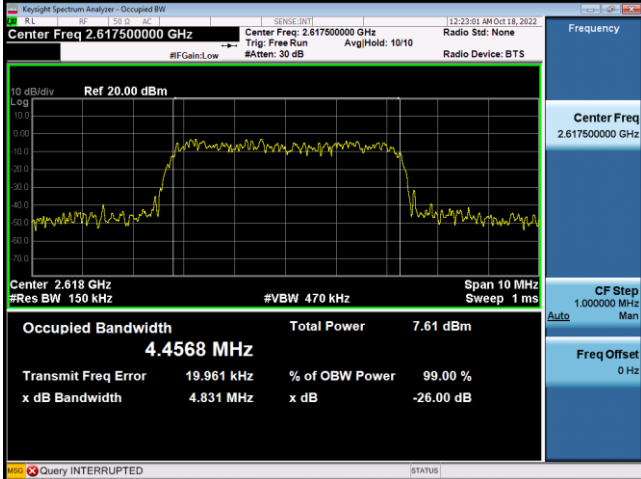
64QAM-37775



64QAM-38000



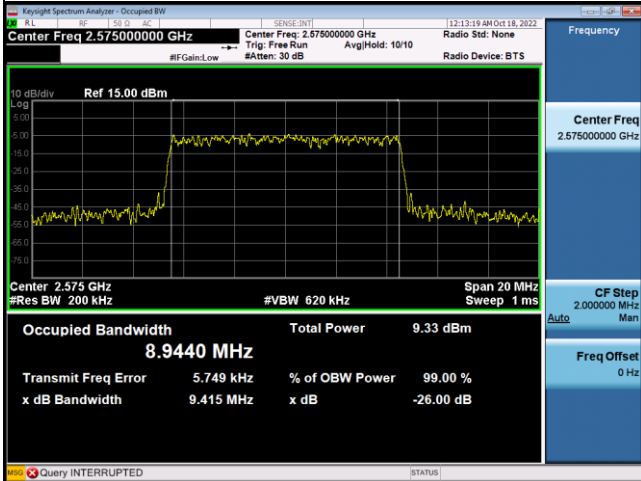
64QAM-38225



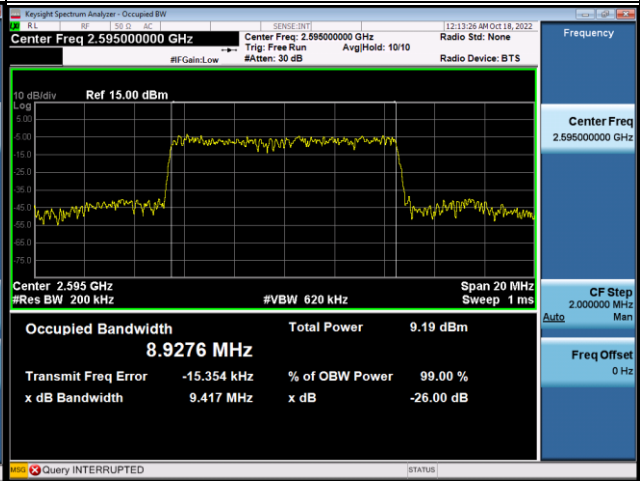
LTE Band 38_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9440	37800	2575	9.415
38000	2595	8.9276	38000	2595	9.417
38200	2615	9.4405	38200	2615	9.409
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9728	37800	2575	9.487
38000	2595	8.9057	38000	2595	9.462
38200	2615	8.9721	38200	2615	9.496
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9976	37800	2575	9.448
38000	2595	8.9715	38000	2595	9.420
38200	2615	8.9452	38200	2615	9.454

Spectrum Plot

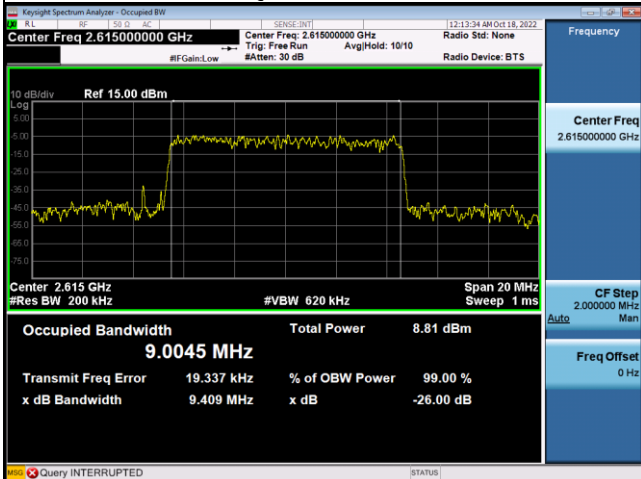
QPSK-37800



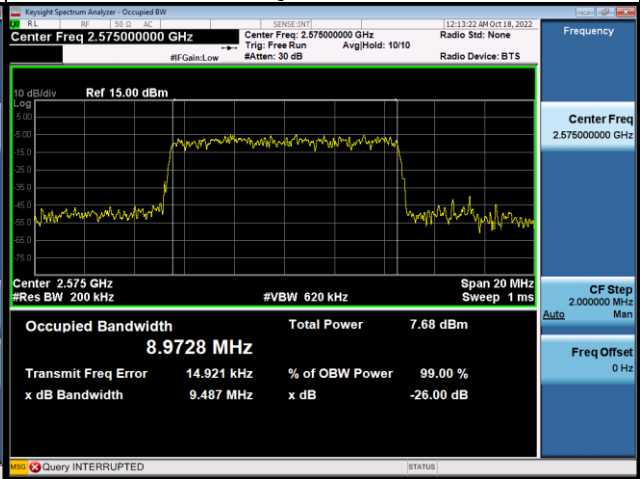
QPSK-38000



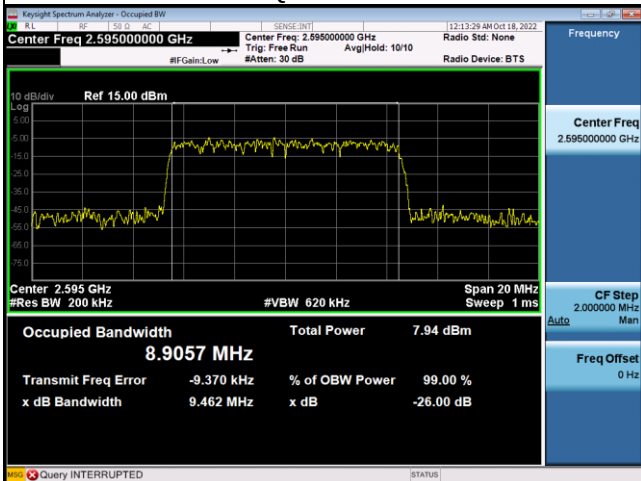
QPSK-38200



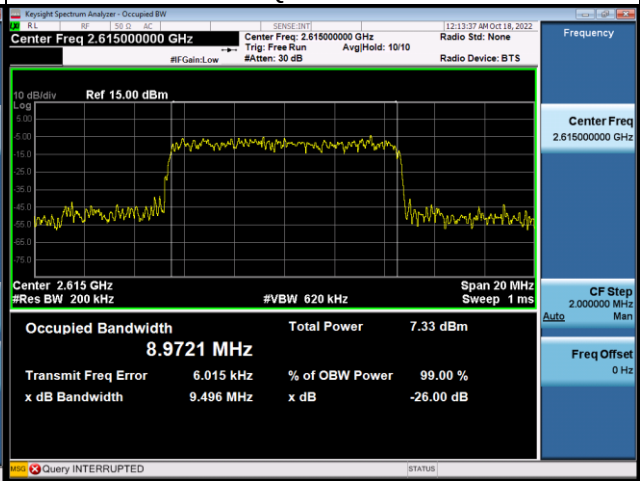
16QAM-37800



16QAM-38000

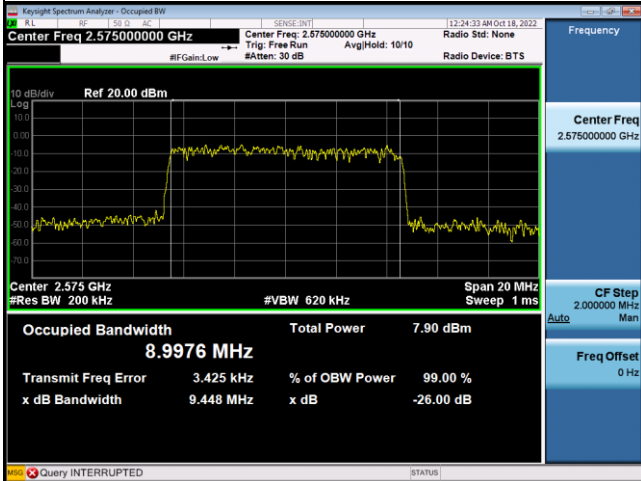


16QAM-38200

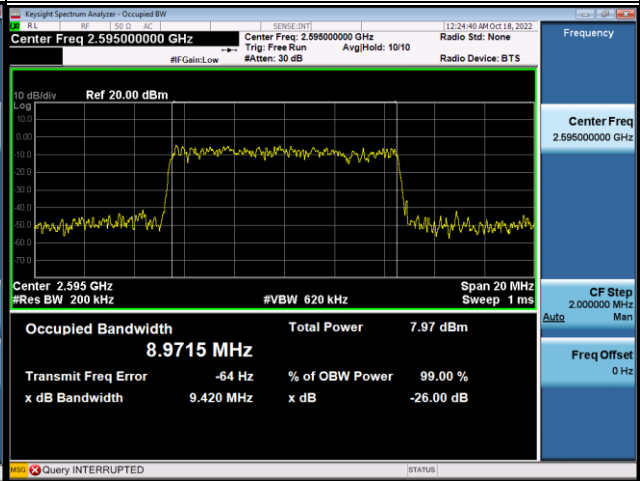


Spectrum Plot

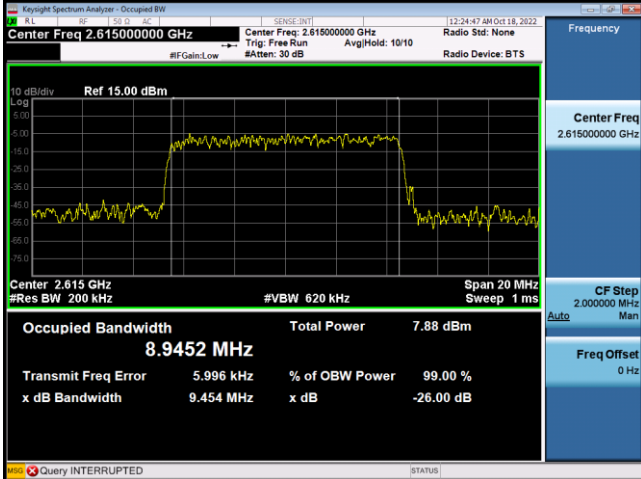
64QAM-37800



64QAM-38000



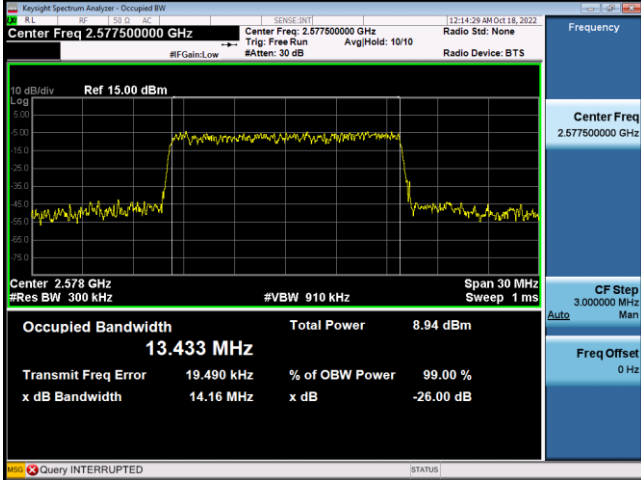
64QAM-38200



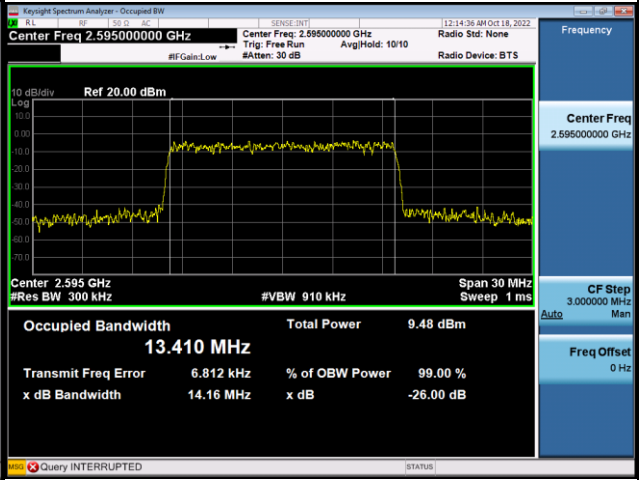
LTE Band 38_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.433	37825	2577.5	14.16
38000	2595	13.410	38000	2595	14.16
38175	2612.5	13.492	38175	2612.5	14.13
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.406	37825	2577.5	14.14
38000	2595	13.469	38000	2595	14.14
38175	2612.5	13.416	38175	2612.5	14.10
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37825	2577.5	13.422	37825	2577.5	14.04
38000	2595	13.417	38000	2595	14.17
38175	2612.5	13.409	38175	2612.5	14.13

Spectrum Plot

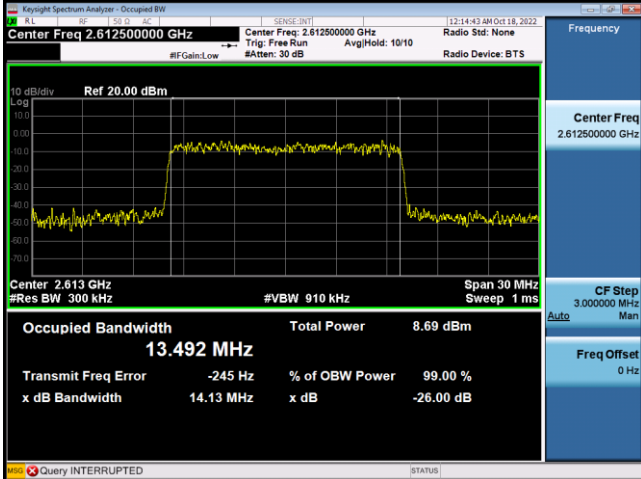
QPSK-37825



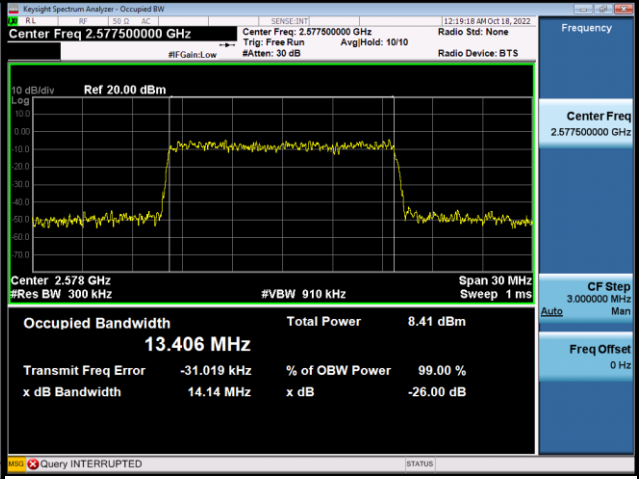
QPSK-38000



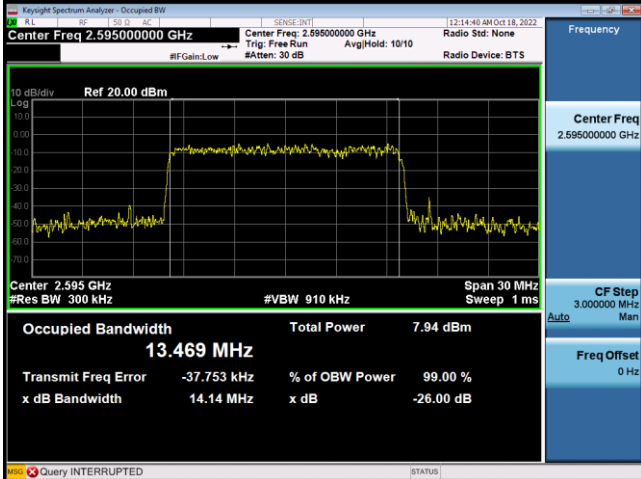
QPSK-38175



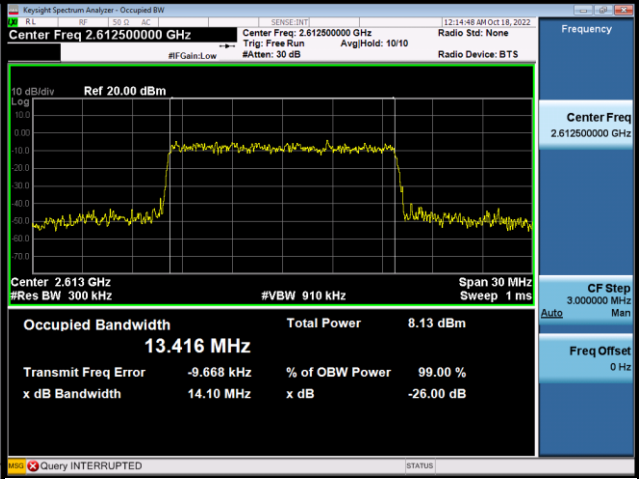
16QAM-37825



16QAM-38000

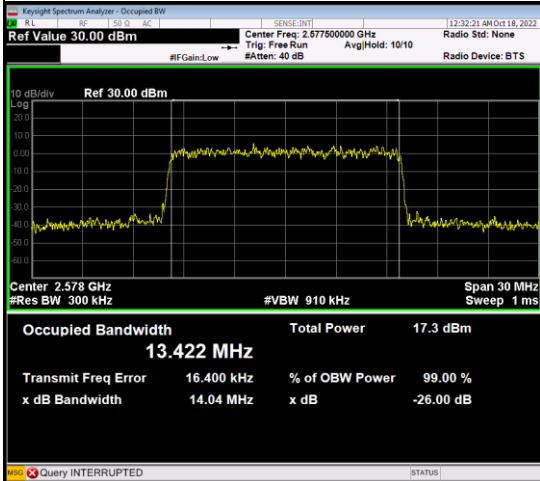


16QAM-38175

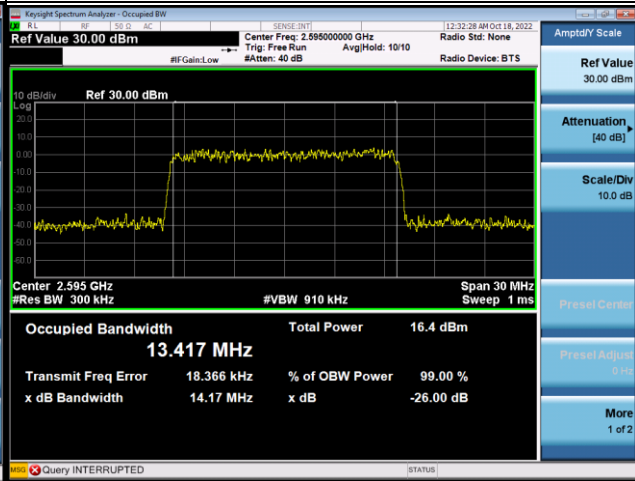


Spectrum Plot

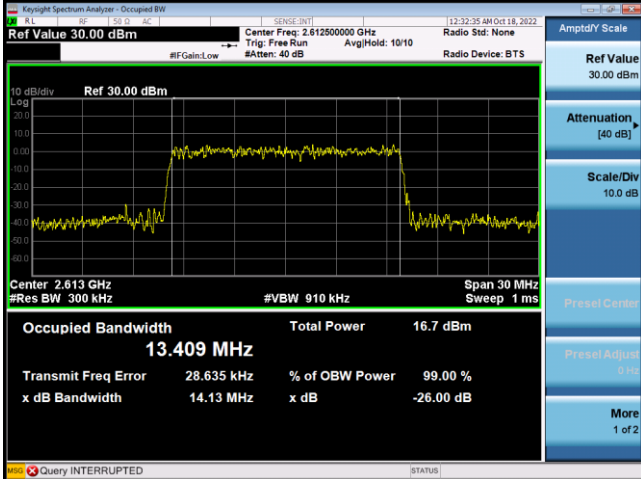
64QAM-37825



64QAM-38000



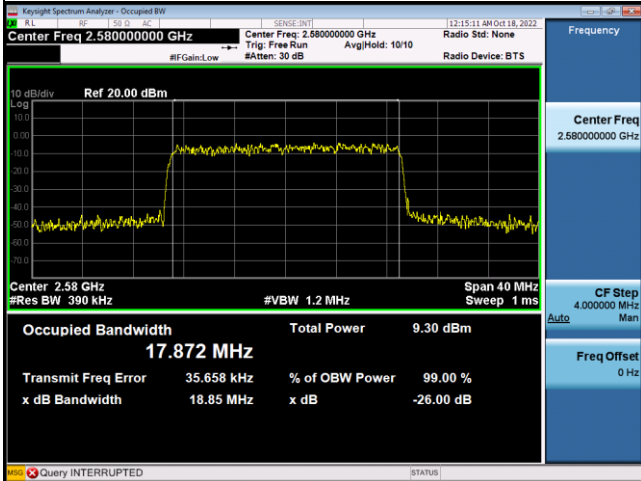
64QAM-38175



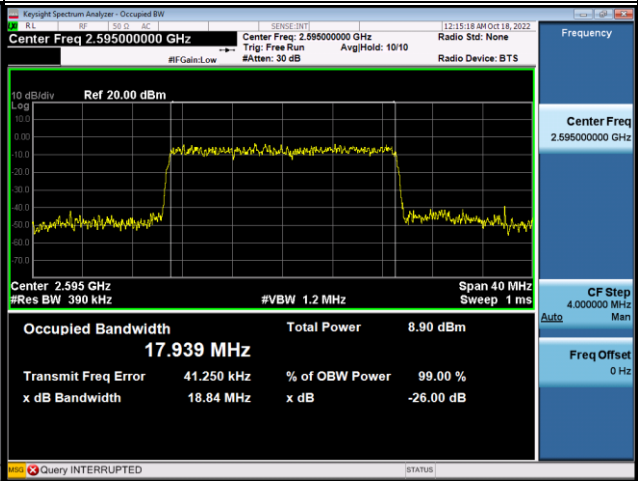
LTE Band 38_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.872	37850	2580	18.85
38000	2595	17.939	38000	2595	18.84
38150	2610	17.912	38150	2610	18.82
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.924	37850	2580	18.91
38000	2595	17.767	38000	2595	18.84
38150	2610	17.847	38150	2610	18.85
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37850	2580	17.976	37850	2580	18.85
38000	2595	17.902	38000	2595	18.82
38150	2610	17.854	38150	2610	18.76

Spectrum Plot

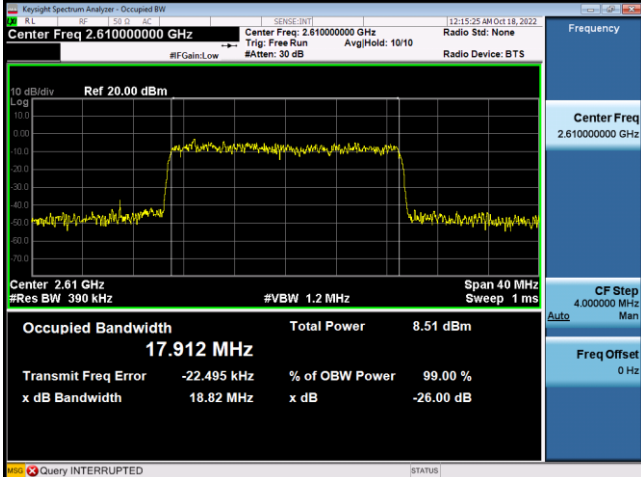
QPSK-37850



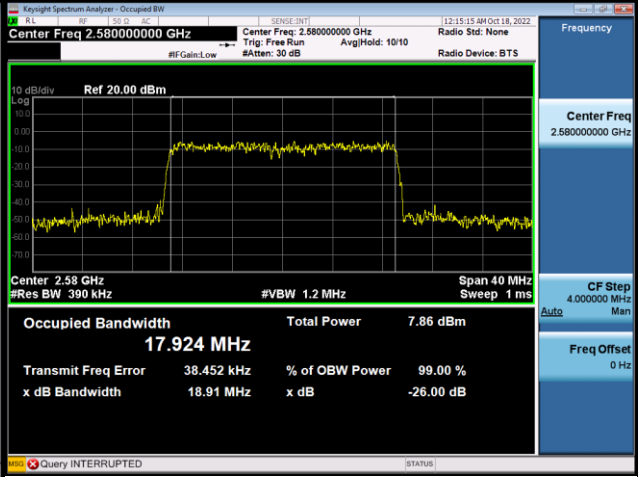
QPSK-38000



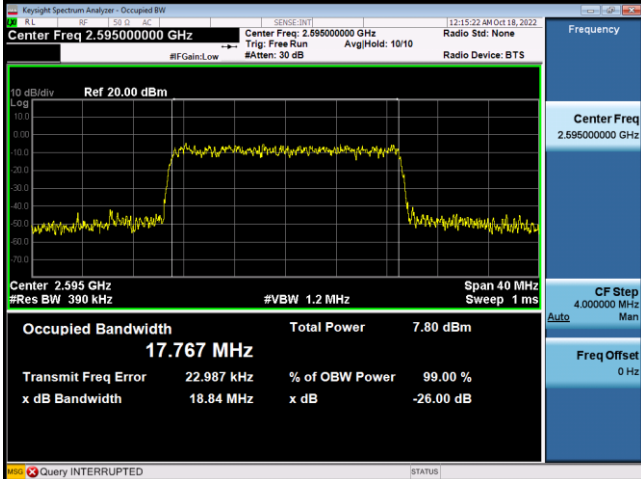
QPSK-38150



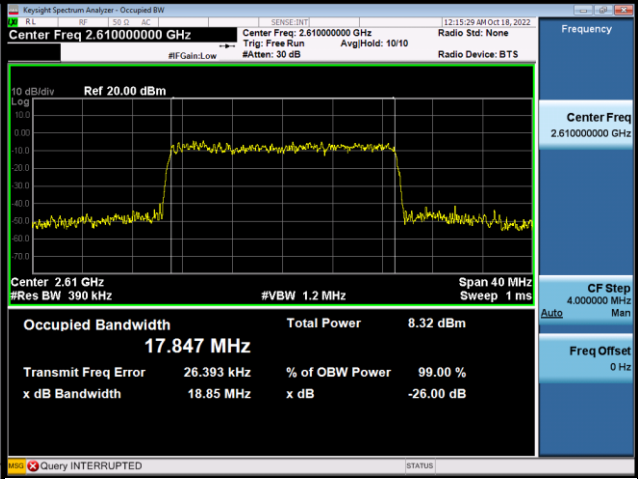
16QAM-37850



16QAM-38000

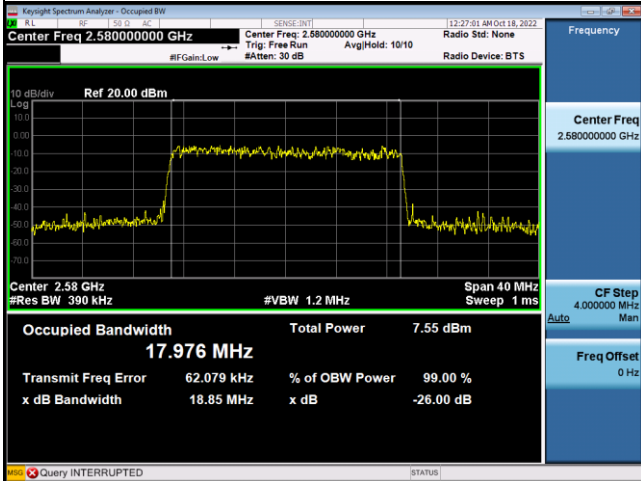


16QAM-38150

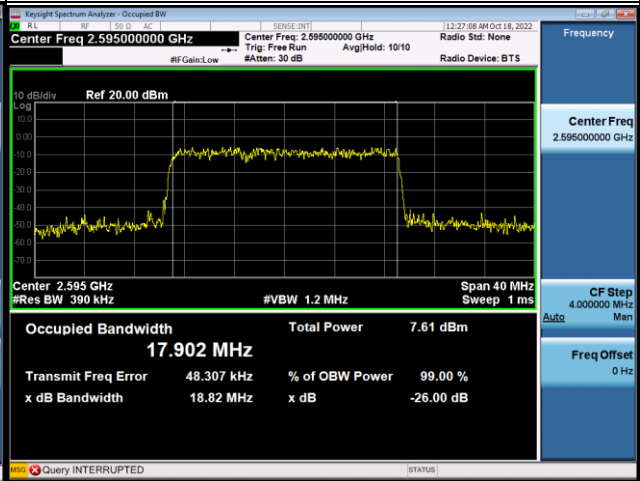


Spectrum Plot

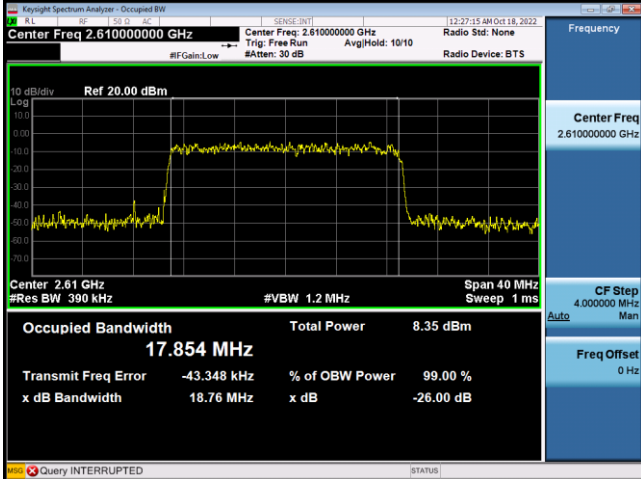
64QAM-37850



64QAM-38000



64QAM-38150



LTE Band 41_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.4728	39675	2498.5	4.809
40620	2593	4.4974	40620	2593	4.811
41565	2687.5	4.5064	41565	2687.5	4.870
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.5016	39675	2498.5	4.876
40620	2593	4.5494	40620	2593	4.865
41565	2687.5	4.4839	41565	2687.5	4.932
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.5020	39675	2498.5	4.808
40620	2593	4.5243	40620	2593	4.826
41565	2687.5	4.5374	41565	2687.5	4.804