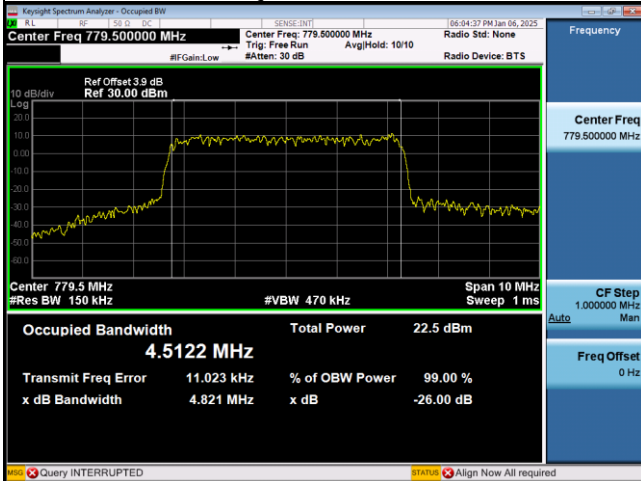
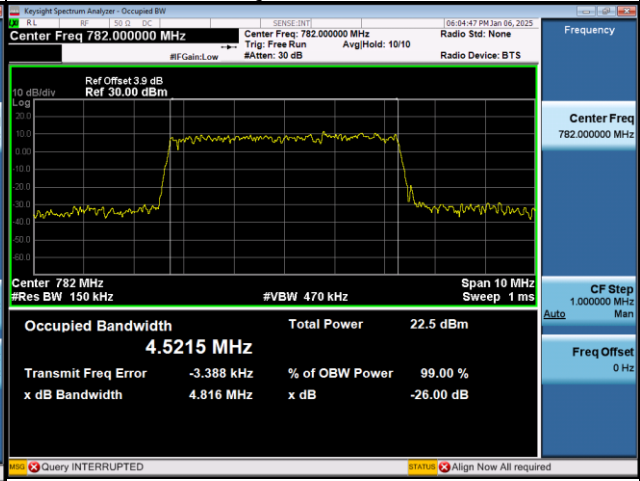


Spectrum Plot

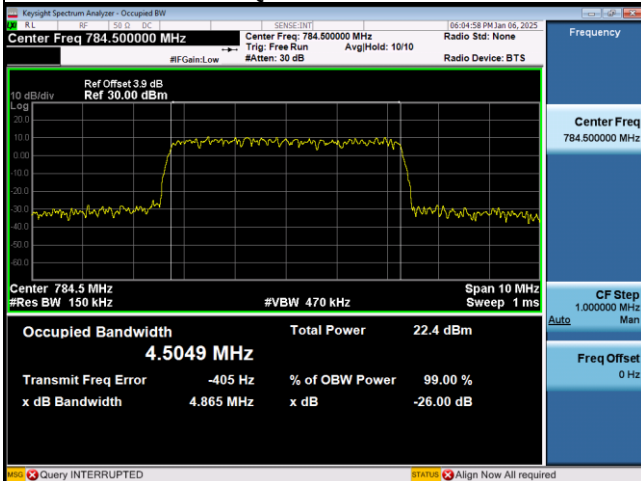
QPSK-23205



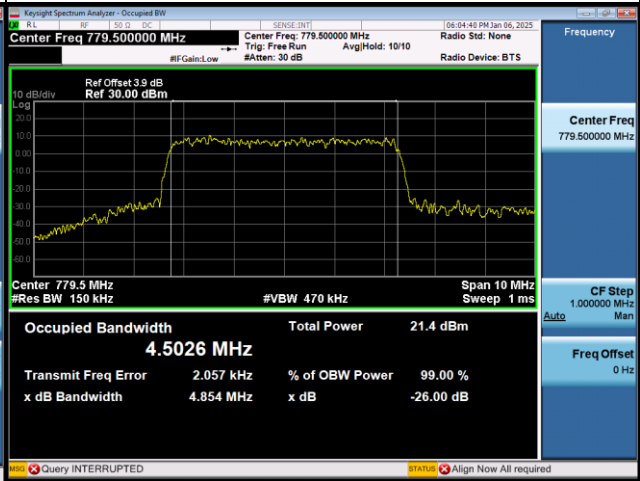
QPSK-23230



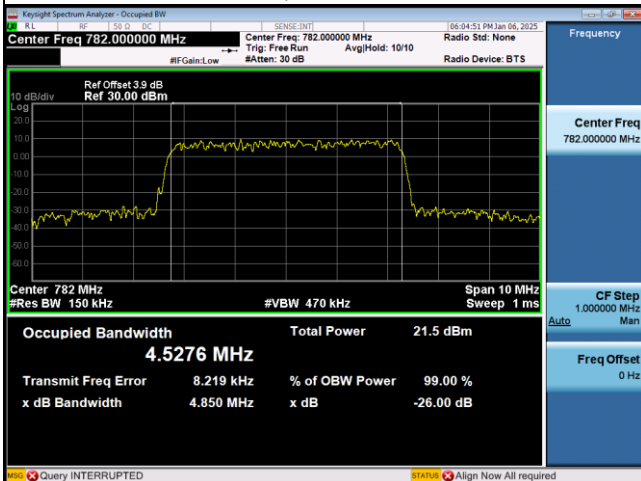
QPSK-23255



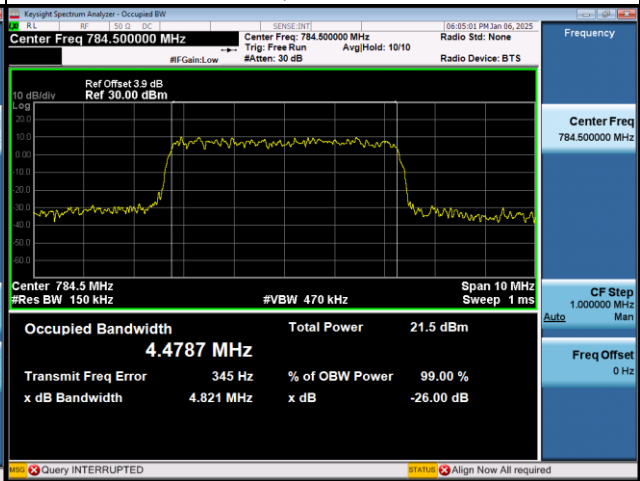
16QAM-23205

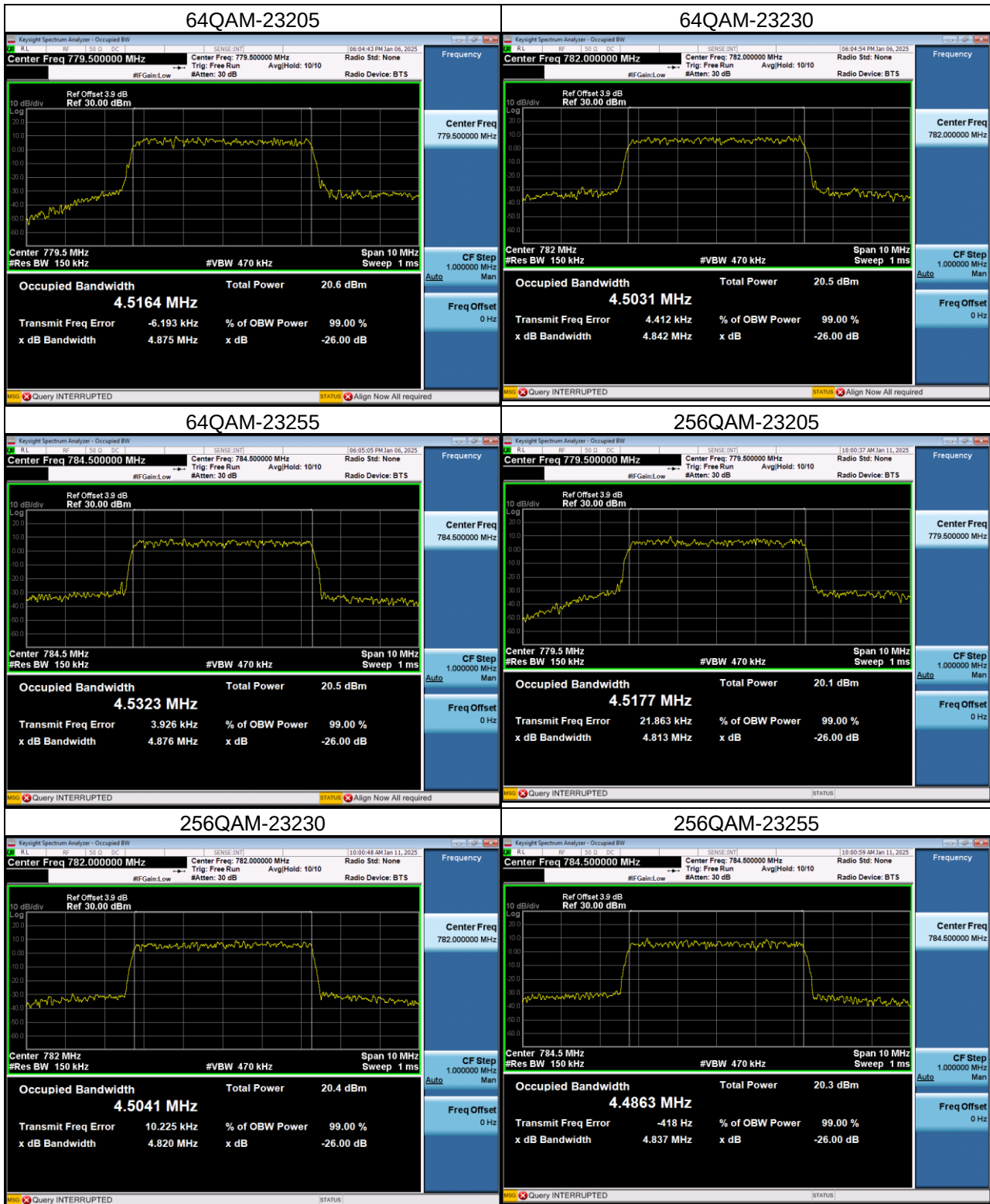


16QAM-23230



16QAM-23255

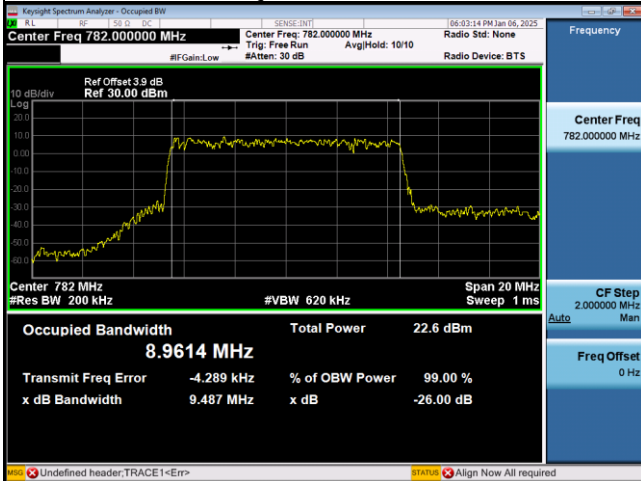




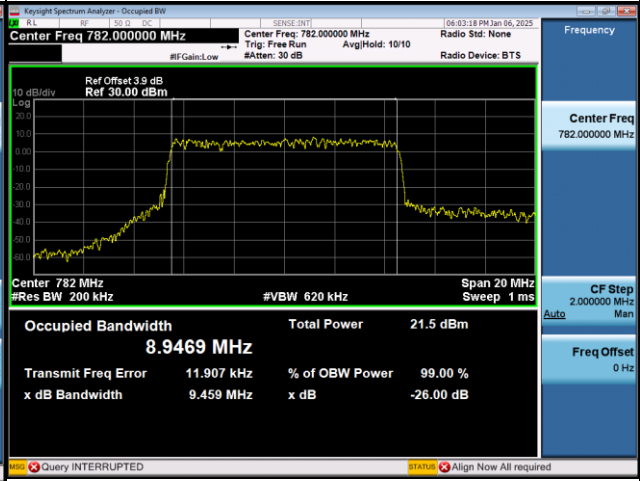
LTE Band 13_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9614	23230	782.0	9.487
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9469	23230	782.0	9.459
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9344	23230	782.0	9.441
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9979	23230	782.0	9.502

Spectrum Plot

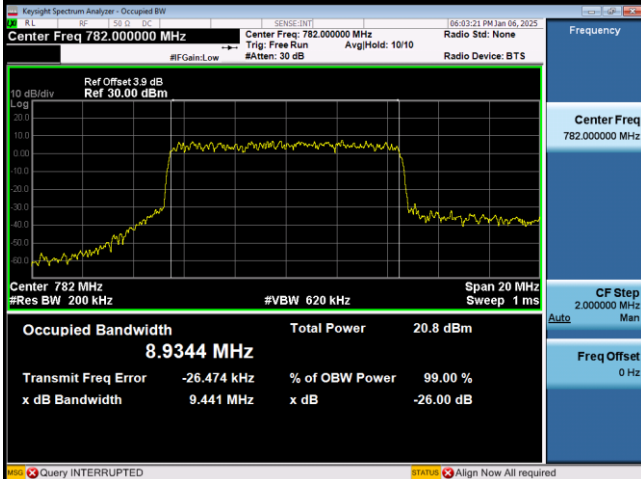
QPSK-23230



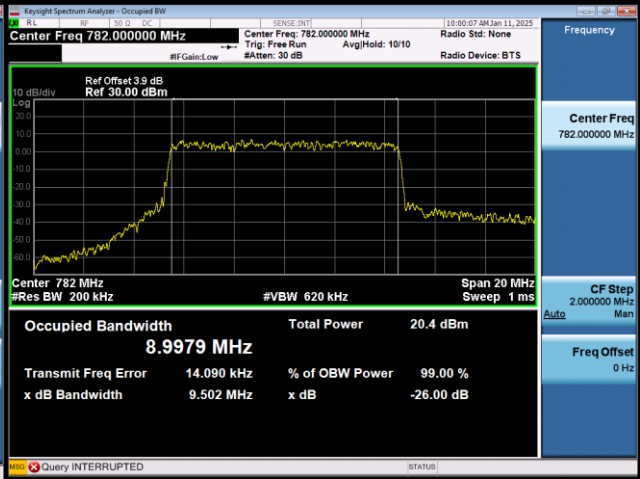
16QAM-23230



64QAM-23230



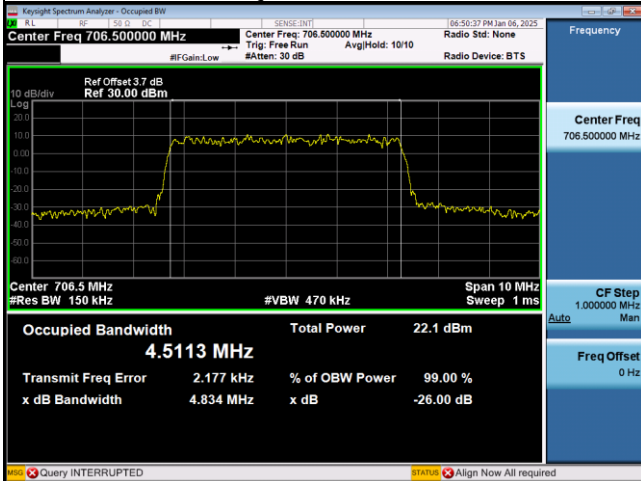
256QAM-23230



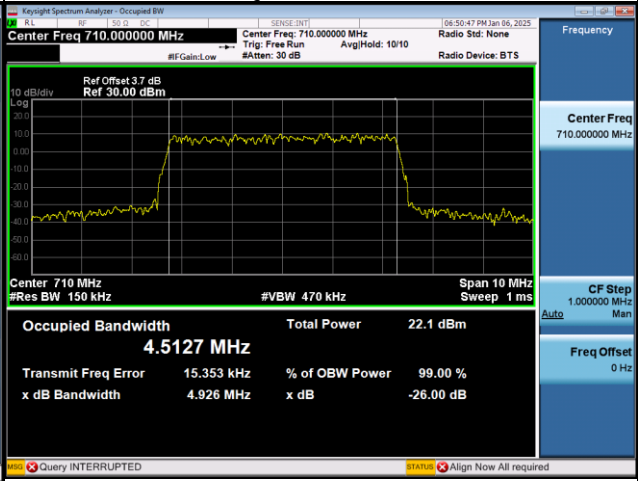
LTE Band 17_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23755	706.5	4.5113	23755	706.5	4.834
23790	710	4.5127	23790	710	4.926
23825	713.5	4.5091	23825	713.5	4.839
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23755	706.5	4.5127	23755	706.5	4.861
23790	710	4.5147	23790	710	4.815
23825	713.5	4.5162	23825	713.5	4.823
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23755	706.5	4.5474	23755	706.5	4.828
23790	710	4.4811	23790	710	4.838
23825	713.5	4.4698	23825	713.5	4.860
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23755	706.5	4.5324	23755	706.5	4.820
23790	710	4.5221	23790	710	4.838
23825	713.5	4.4930	23825	713.5	4.836

Spectrum Plot

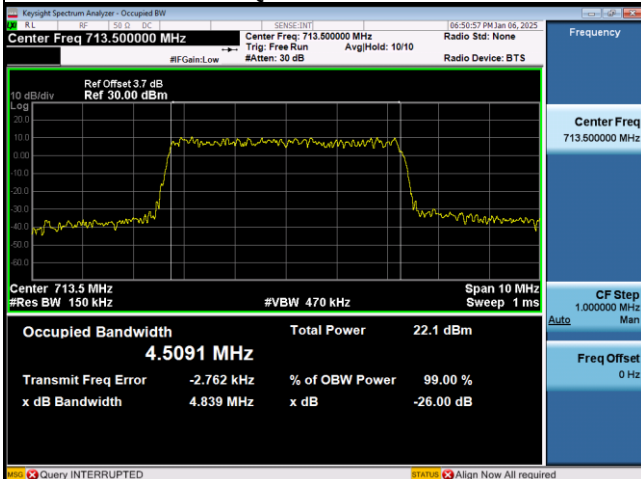
QPSK-23755



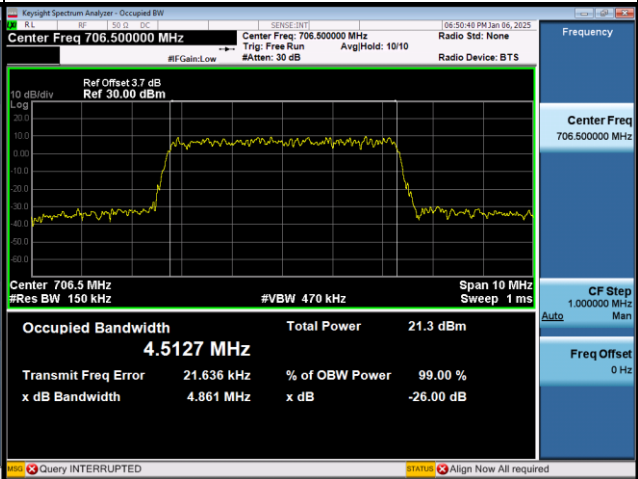
QPSK-23790



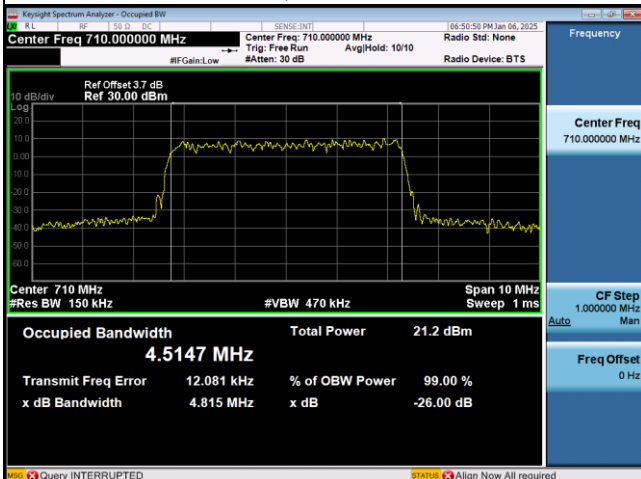
QPSK-23825



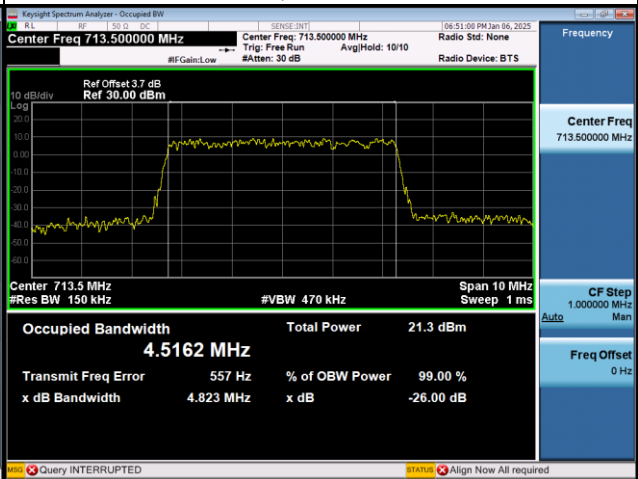
16QAM-23755

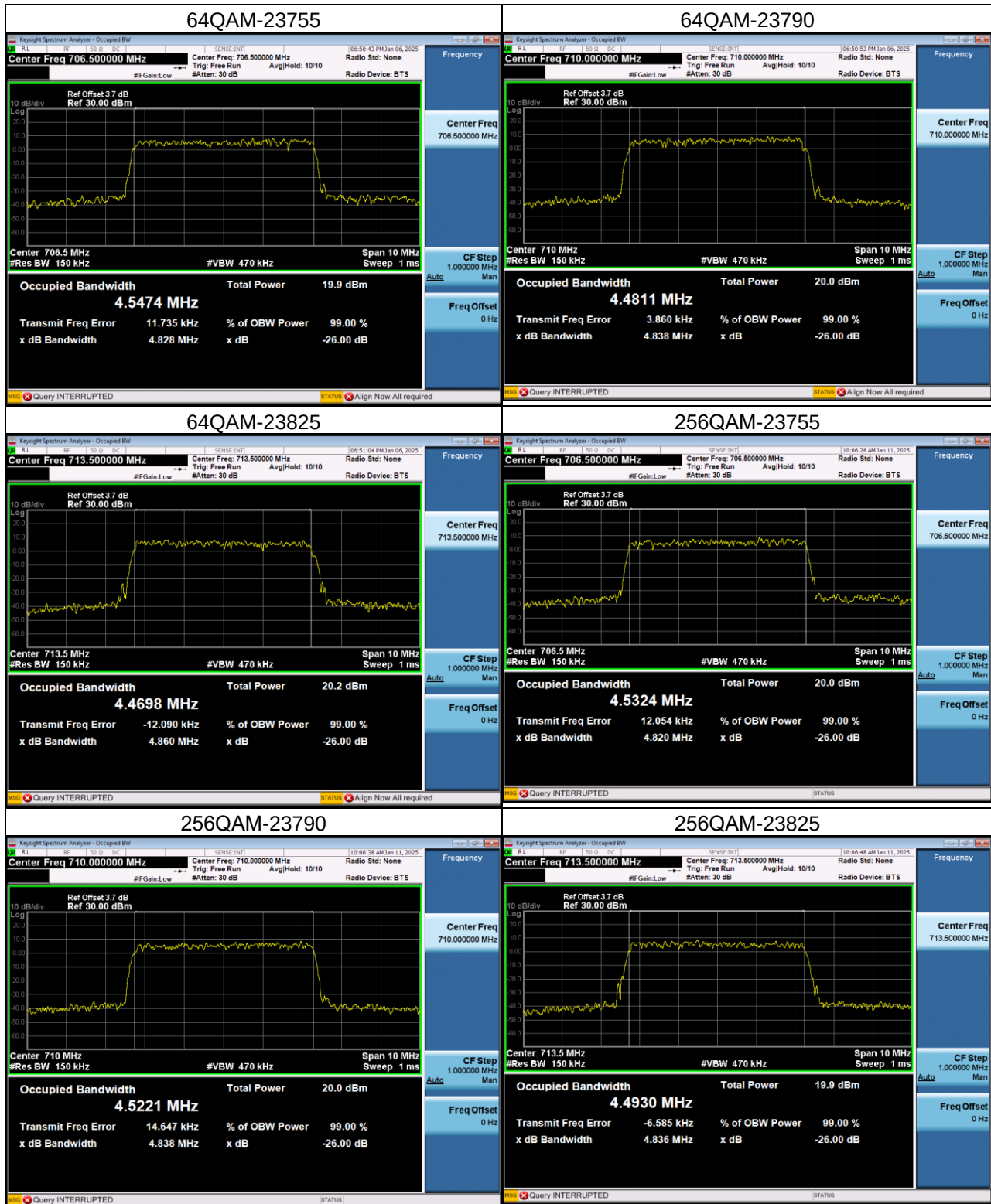


16QAM-23790



16QAM-23825

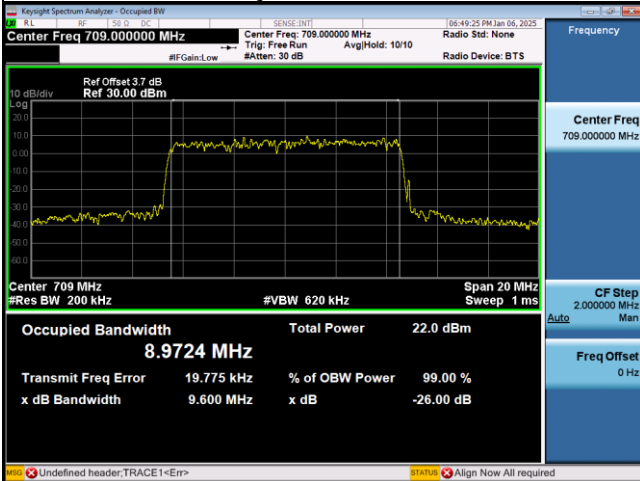




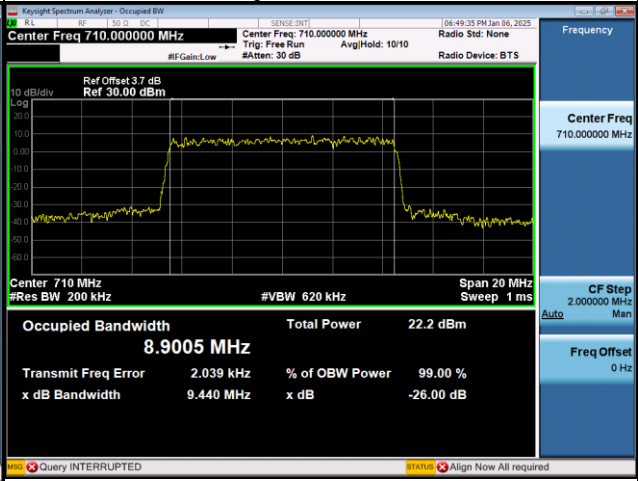
LTE Band 17_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23780	709	8.9724	23780	709	9.600
23790	710	8.9005	23790	710	9.440
23800	711	8.9379	23800	711	9.509
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23780	709	9.0115	23780	709	9.431
23790	710	8.9409	23790	710	9.430
23800	711	8.9403	23800	711	9.431
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23780	709	8.9813	23780	709	9.500
23790	710	8.9161	23790	710	9.464
23800	711	8.9225	23800	711	9.431
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23780	709	8.9696	23780	709	9.444
23790	710	8.9807	23790	710	9.567
23800	711	8.9758	23800	711	9.455

Spectrum Plot

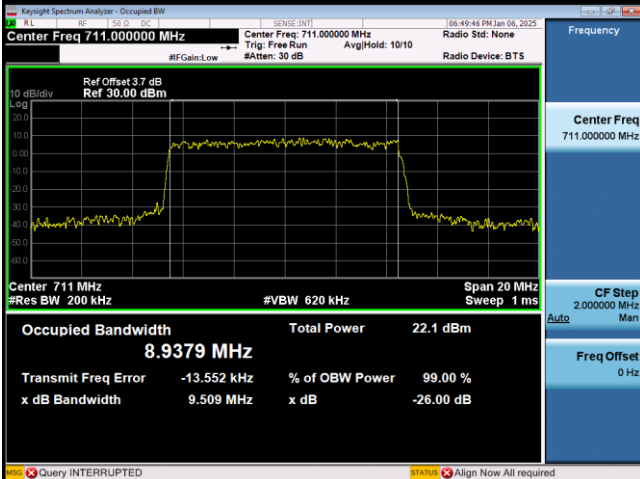
QPSK-23780



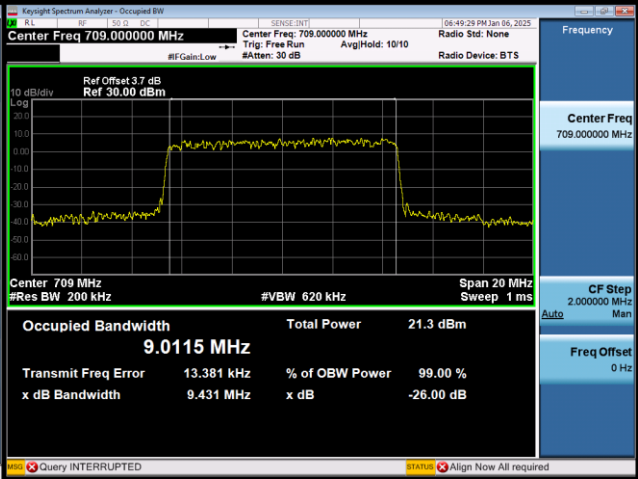
QPSK-23790



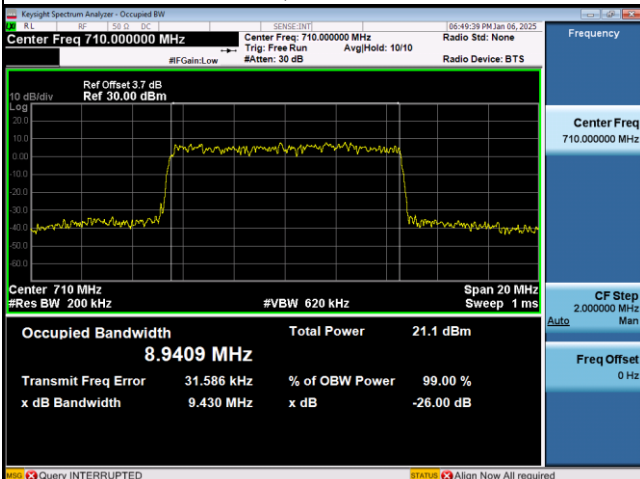
QPSK-23800



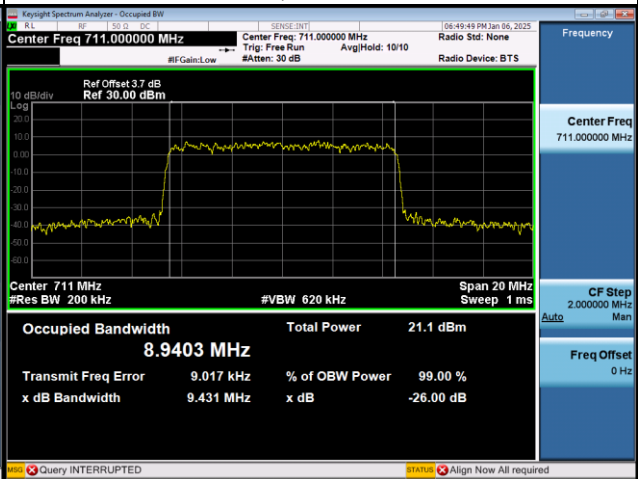
16QAM-23780

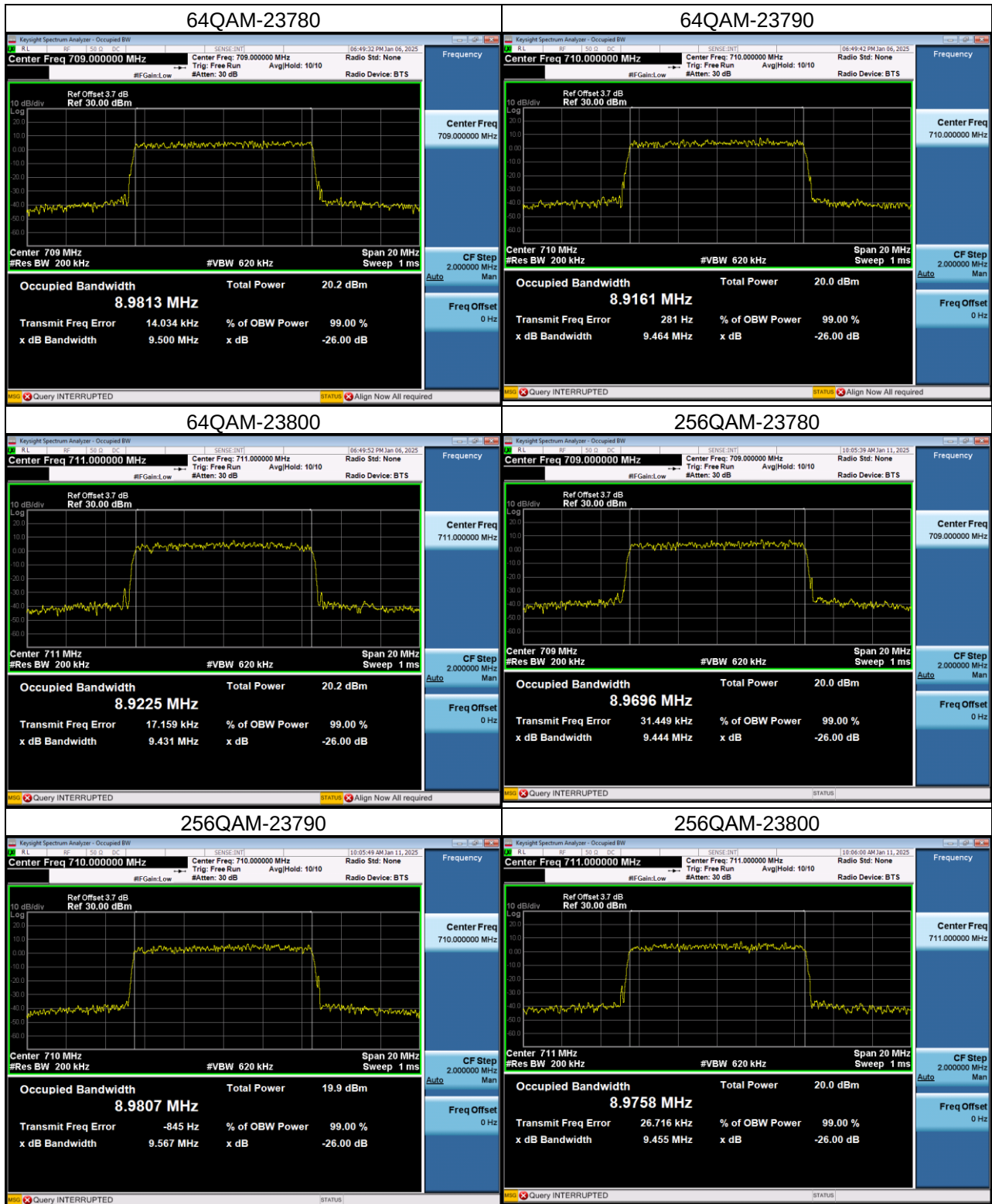


16QAM-23790



16QAM-23800

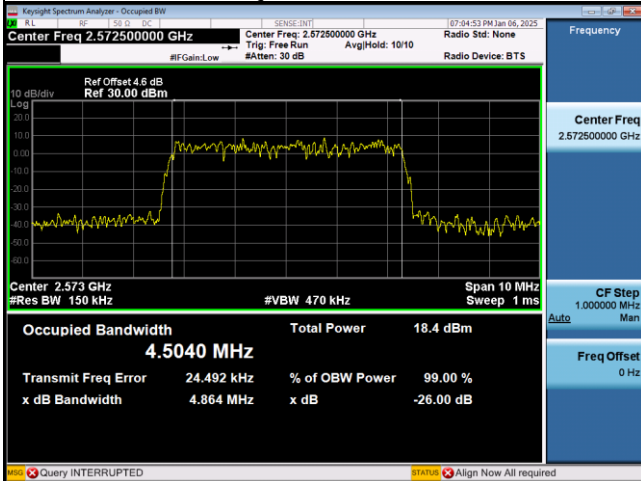




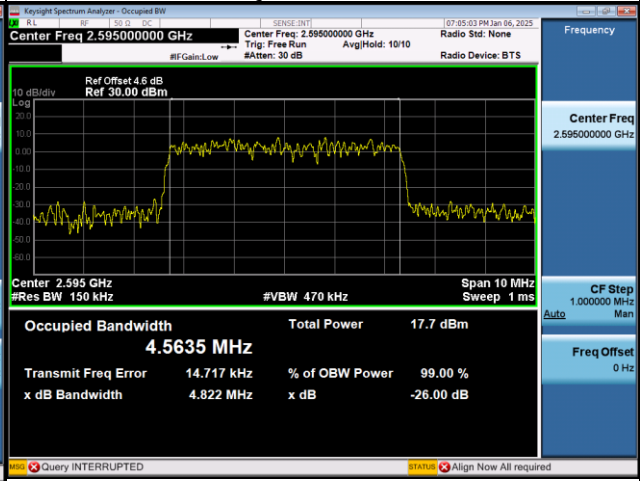
LTE Band 38_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5040	37775	2572.5	4.864
38000	2595	4.5635	38000	2595	4.822
38225	2617.5	4.5252	38225	2617.5	4.833
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5856	37775	2572.5	4.863
38000	2595	4.5042	38000	2595	4.804
38225	2617.5	4.5183	38225	2617.5	4.815
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5049	37775	2572.5	4.797
38000	2595	4.5226	38000	2595	4.887
38225	2617.5	4.4945	38225	2617.5	4.801
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37775	2572.5	4.5122	37775	2572.5	4.835
38000	2595	4.5223	38000	2595	4.815
38225	2617.5	4.4974	38225	2617.5	4.830

Spectrum Plot

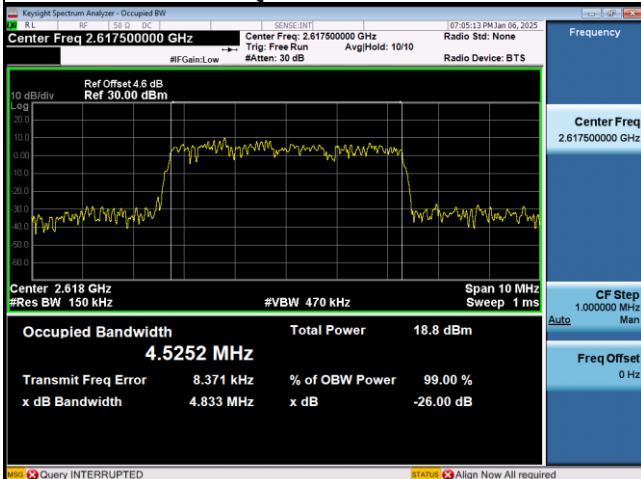
QPSK-37775



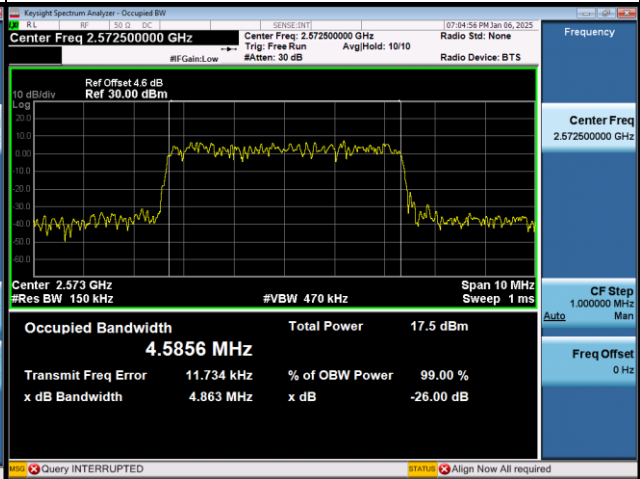
QPSK-38000



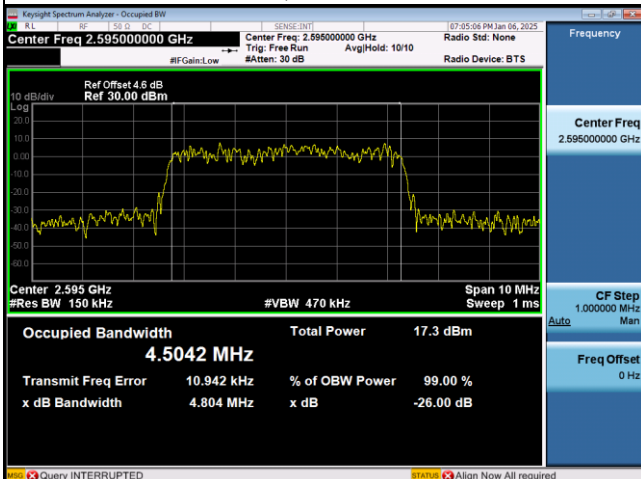
QPSK-38225



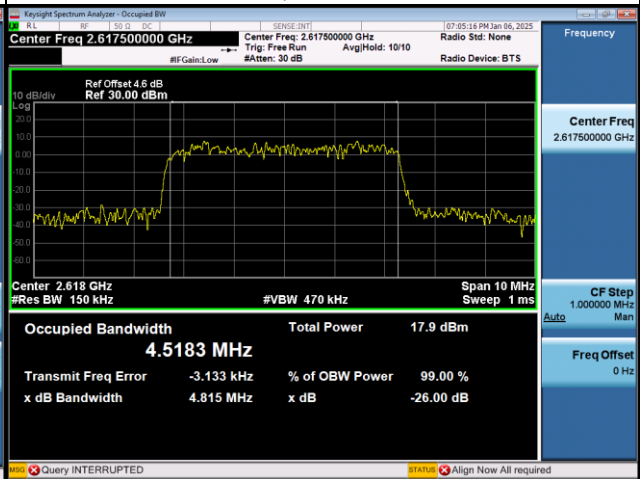
16QAM-37775

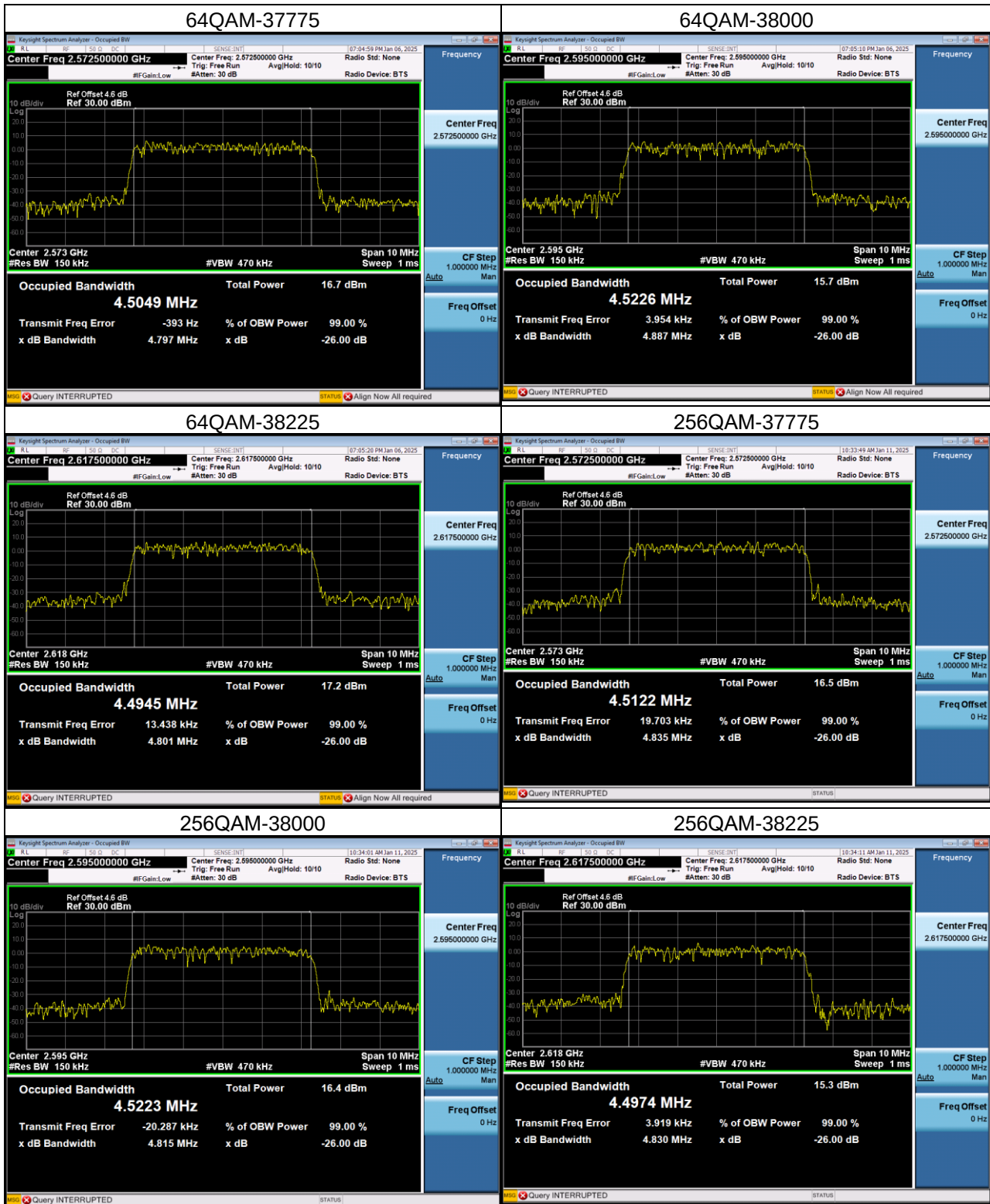


16QAM-38000



16QAM-38225





LTE Band 38_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9697	37800	2575	9.378
38000	2595	9.0128	38000	2595	9.481
38200	2615	9.0385	38200	2615	9.419
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9445	37800	2575	9.438
38000	2595	8.9649	38000	2595	9.420
38200	2615	8.9117	38200	2615	9.394
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9848	37800	2575	9.496
38000	2595	8.9411	38000	2595	9.396
38200	2615	9.0002	38200	2615	9.483
256QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
37800	2575	8.9634	37800	2575	9.491
38000	2595	8.9078	38000	2595	9.386
38200	2615	9.0589	38200	2615	9.568