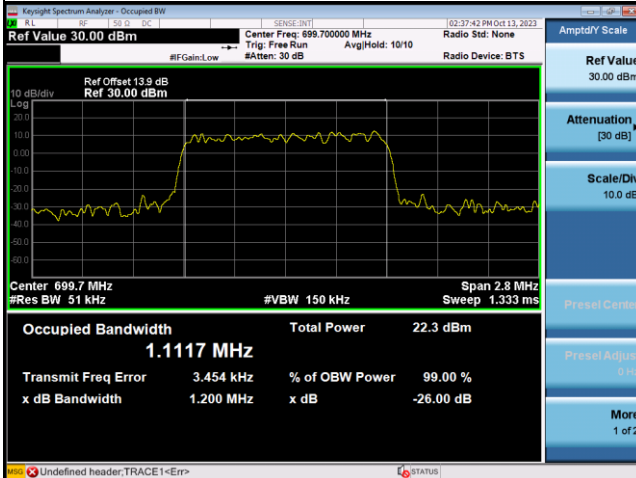
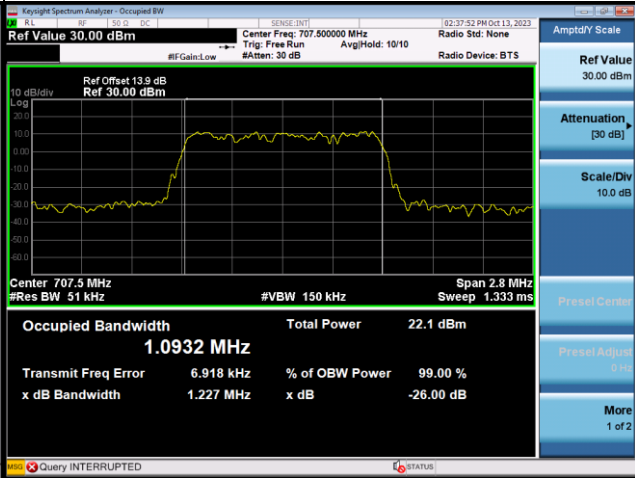


Spectrum Plot

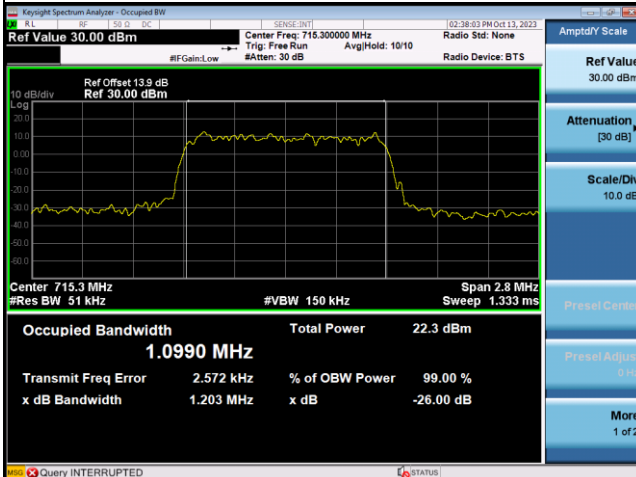
QPSK-23017



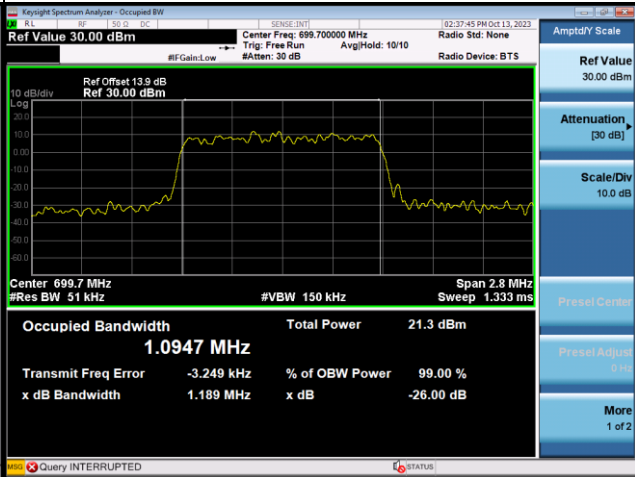
QPSK-23095



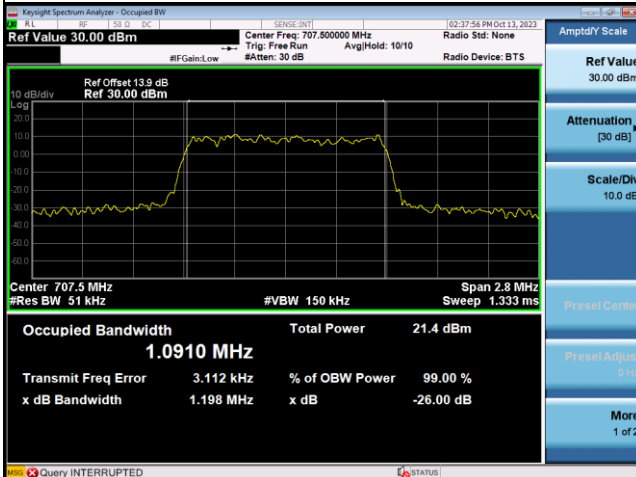
QPSK-23173



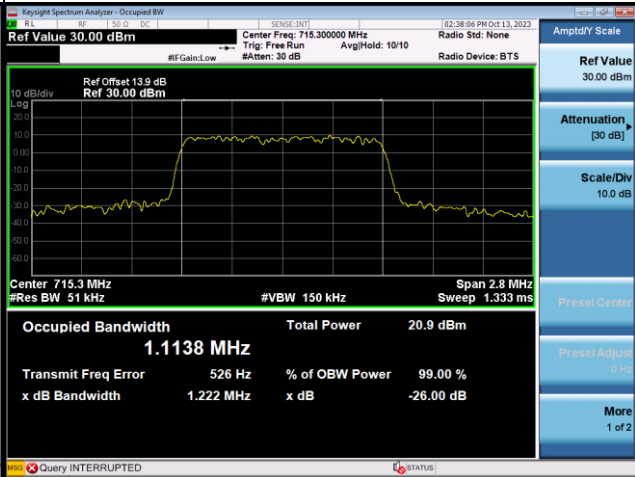
16QAM-23017

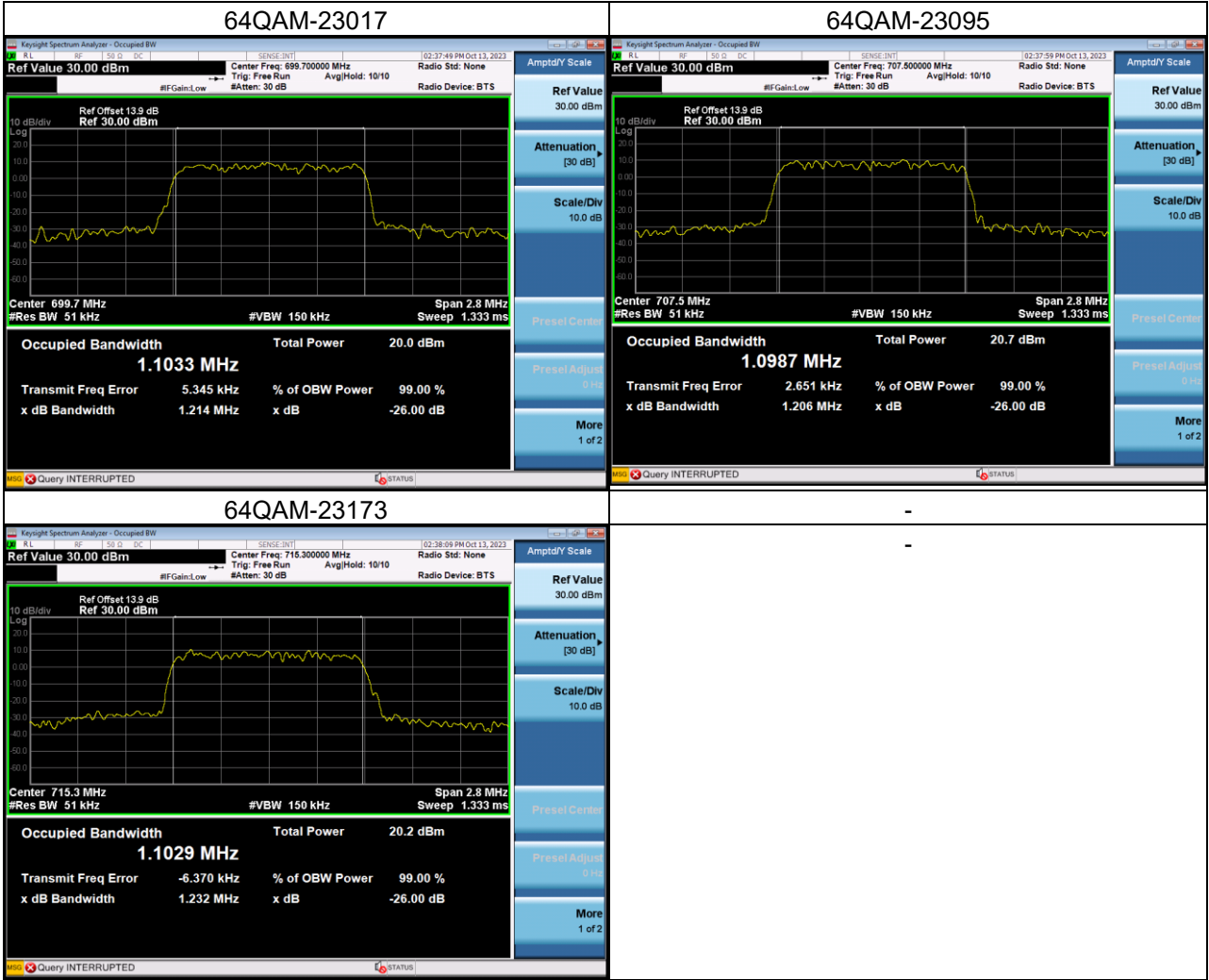


16QAM-23095



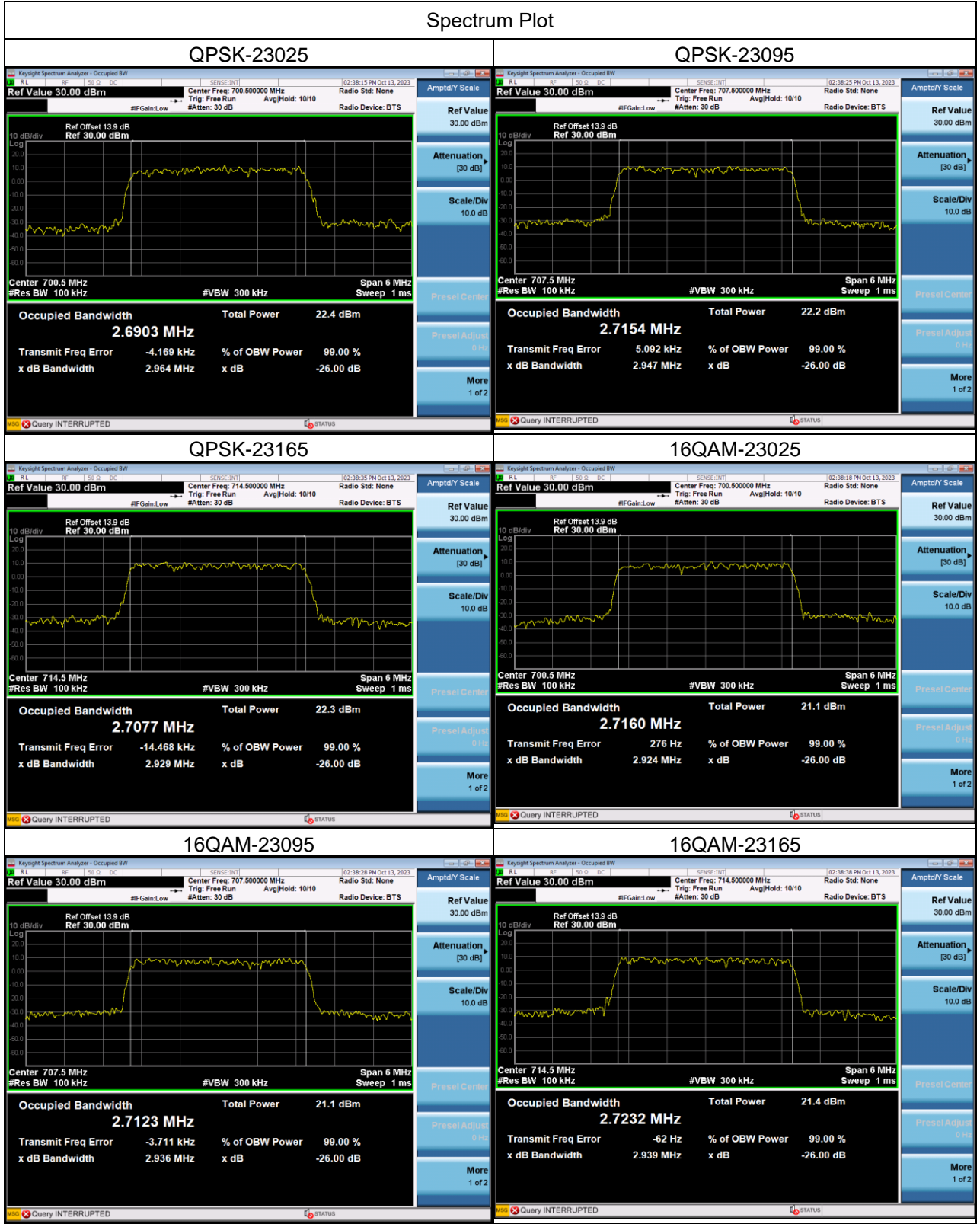
16QAM-23173

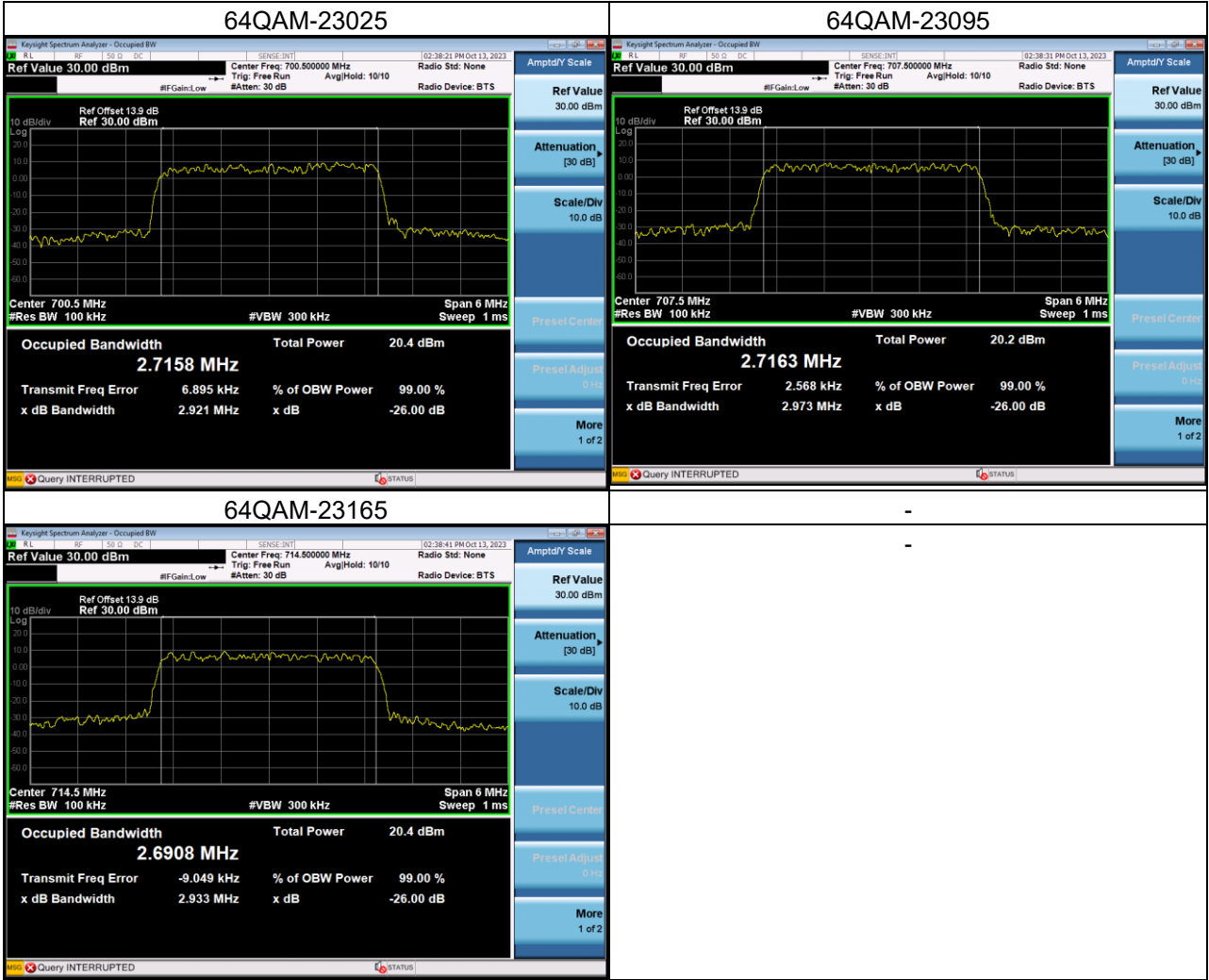




LTE Band 12_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.6903	23025	700.5	2.964
23095	707.5	2.7154	23095	707.5	2.947
23165	714.5	2.7077	23165	714.5	2.929
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.7160	23025	700.5	2.924
23095	707.5	2.7123	23095	707.5	2.936
23165	714.5	2.7232	23165	714.5	2.939
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.7158	23025	700.5	2.921
23095	707.5	2.7163	23095	707.5	2.973
23165	714.5	2.6908	23165	714.5	2.933

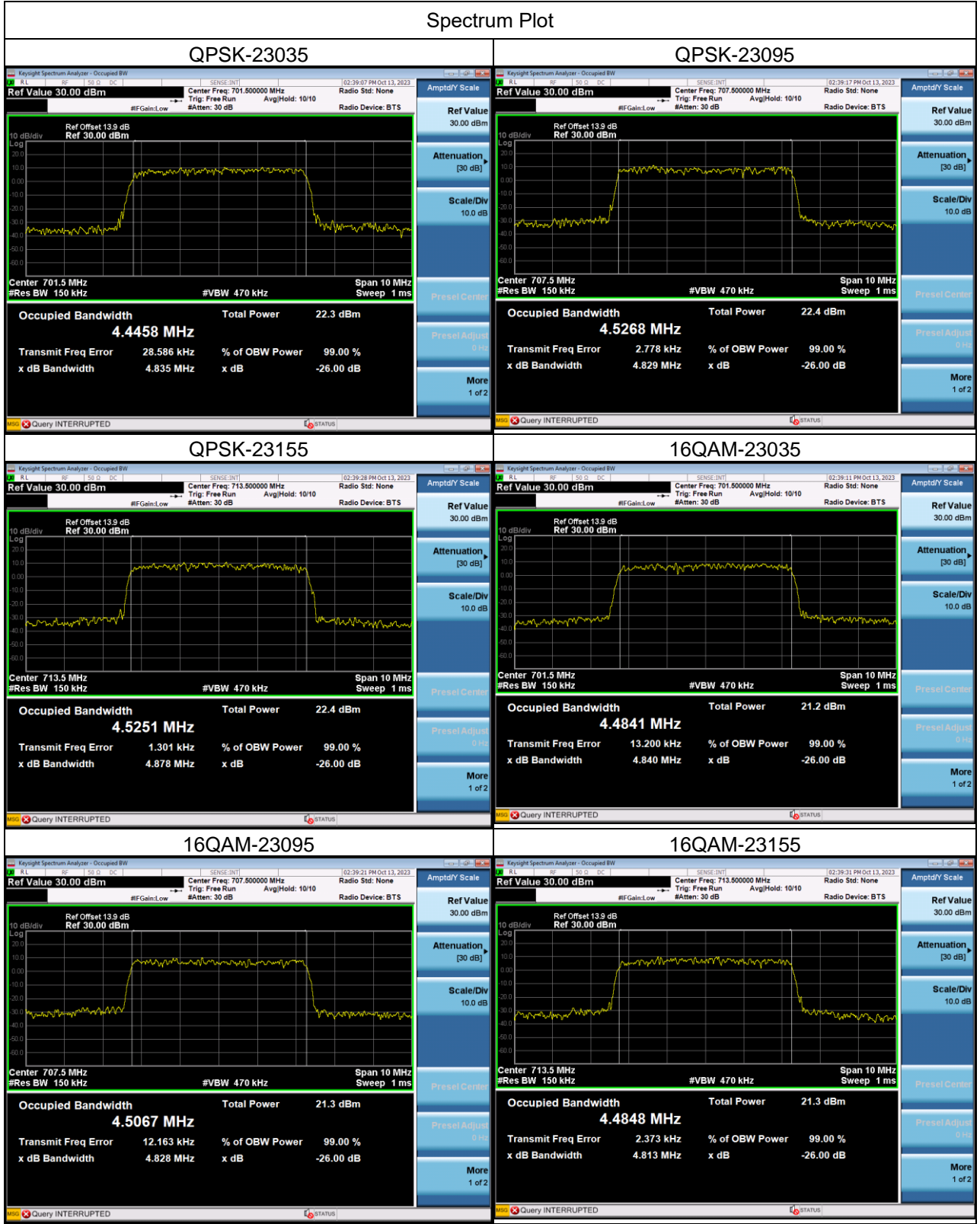
Spectrum Plot

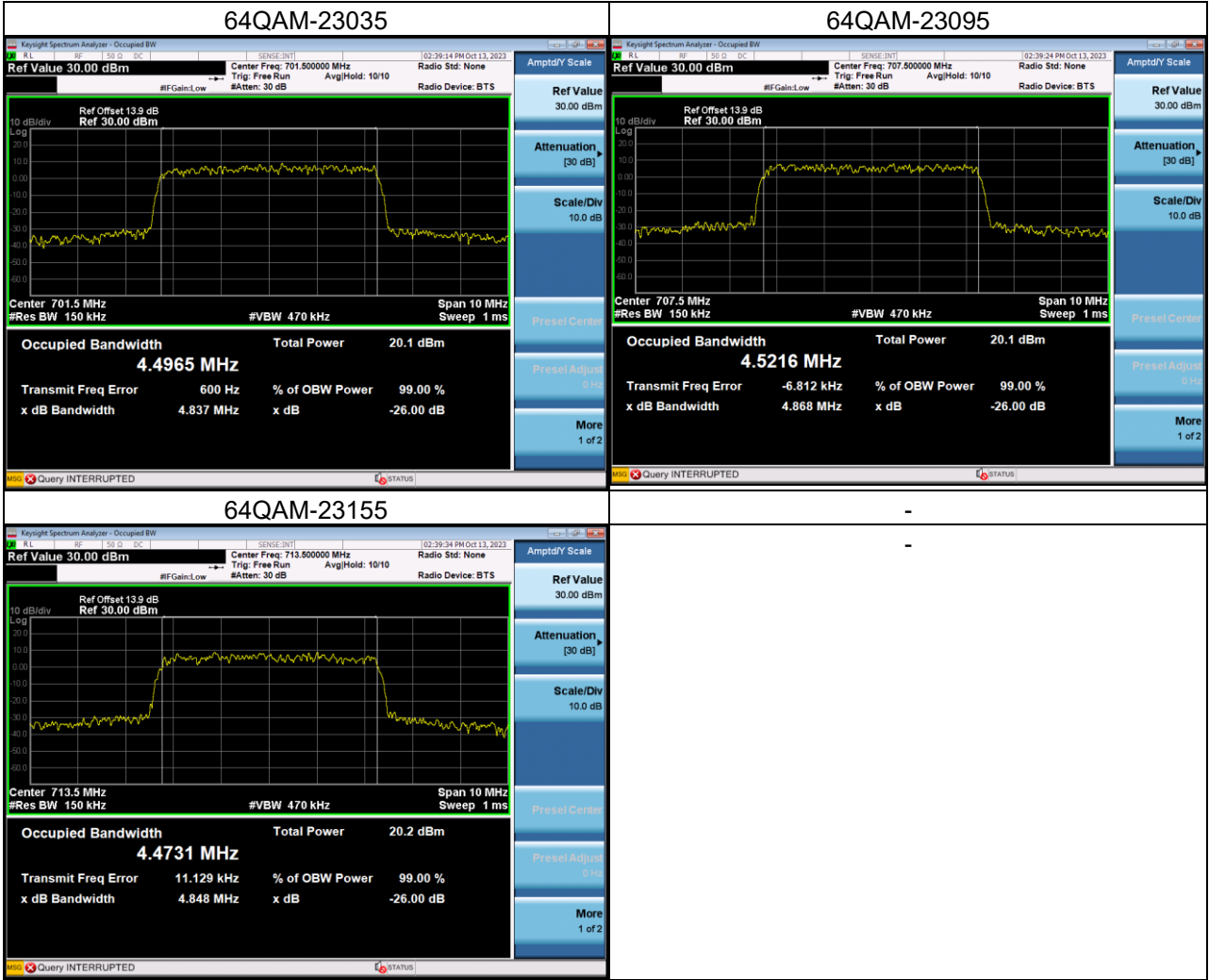




LTE Band 12_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	4.4458	23035	701.5	4.835
23095	707.5	4.5268	23095	707.5	4.829
23155	713.5	4.5251	23155	713.5	4.878
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	4.4841	23035	701.5	4.840
23095	707.5	4.5067	23095	707.5	4.828
23155	713.5	4.4848	23155	713.5	4.813
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	4.4965	23035	701.5	4.837
23095	707.5	4.5216	23095	707.5	4.868
23155	713.5	4.4731	23155	713.5	4.848

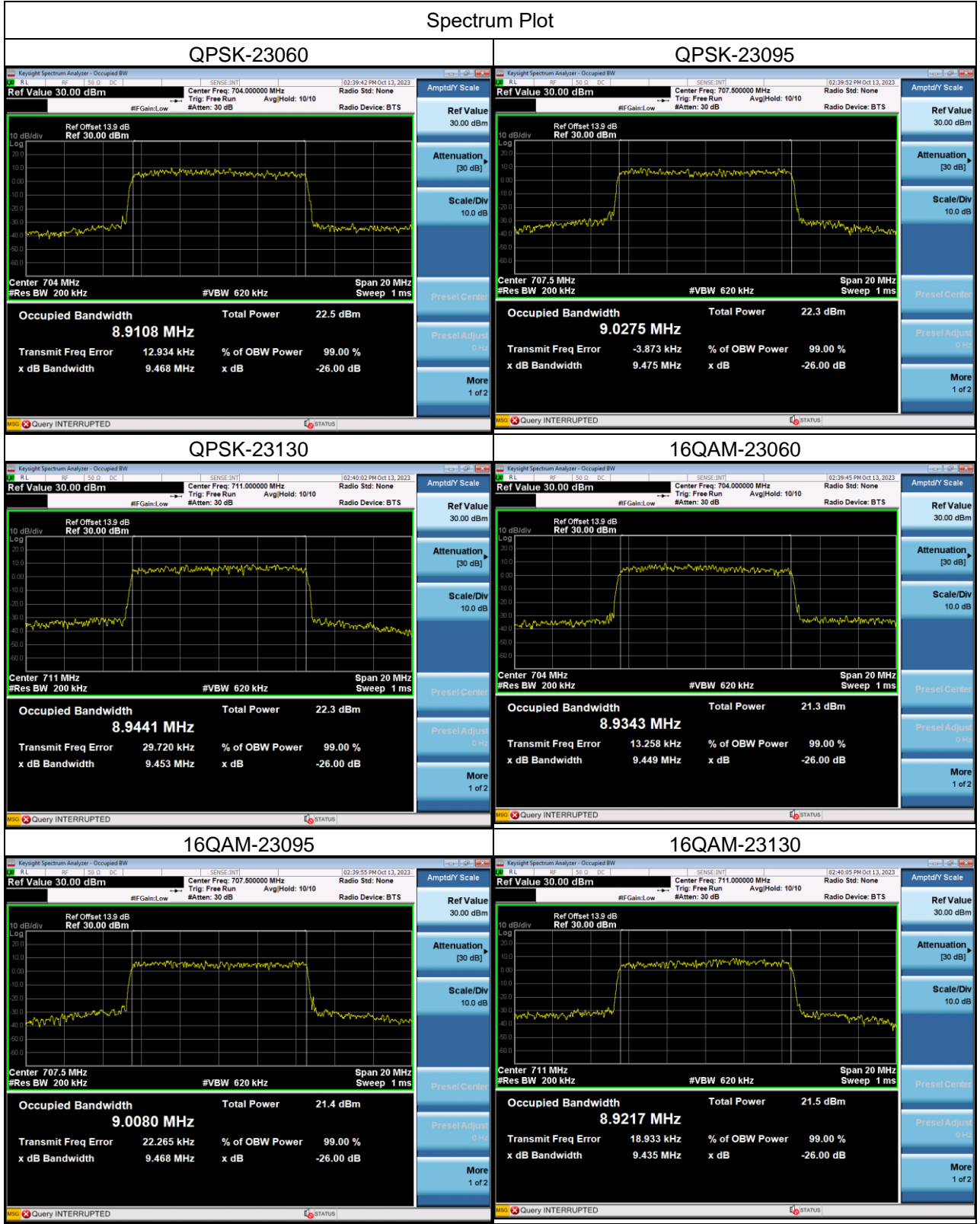
Spectrum Plot

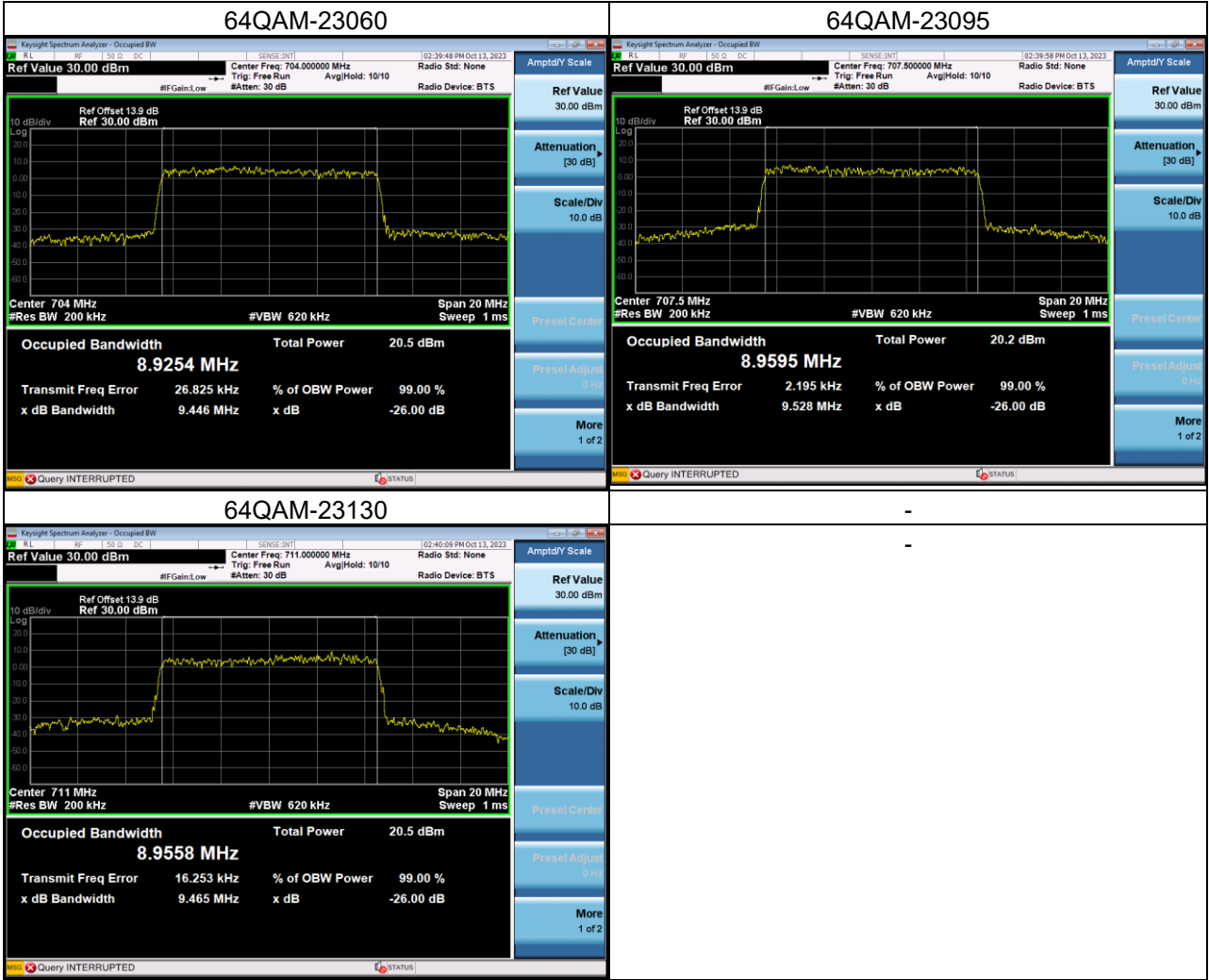




LTE Band 12_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704.0	8.9108	23060	704.0	9.468
23095	707.5	9.0275	23095	707.5	9.475
23130	711.0	8.9441	23130	711.0	9.453
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704.0	8.9343	23060	704.0	9.449
23095	707.5	9.0080	23095	707.5	9.468
23130	711.0	8.9217	23130	711.0	9.435
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704.0	8.9254	23060	704.0	9.446
23095	707.5	8.9595	23095	707.5	9.528
23130	711.0	8.9558	23130	711.0	9.465

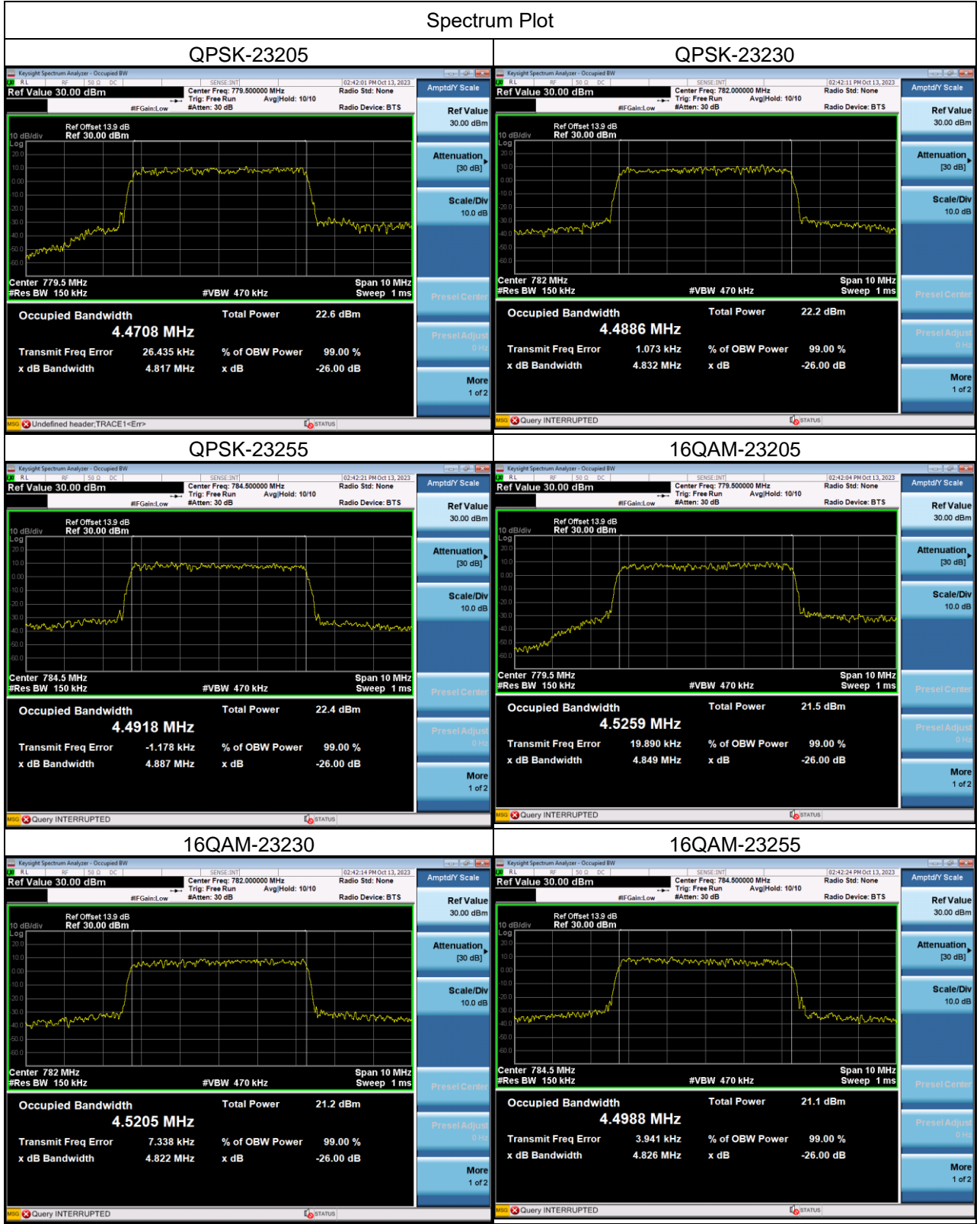
Spectrum Plot

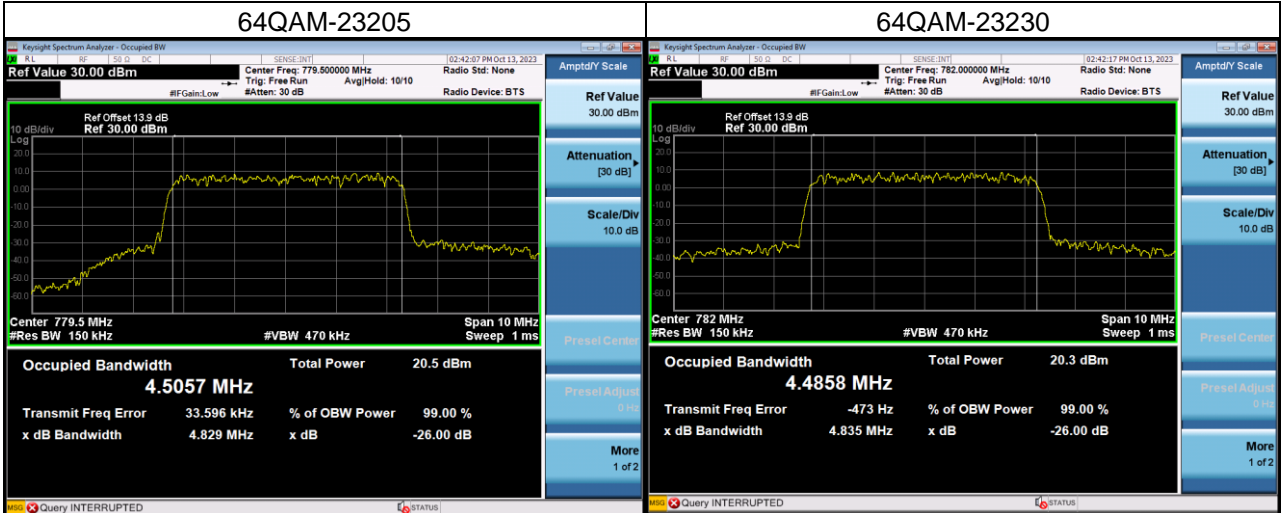




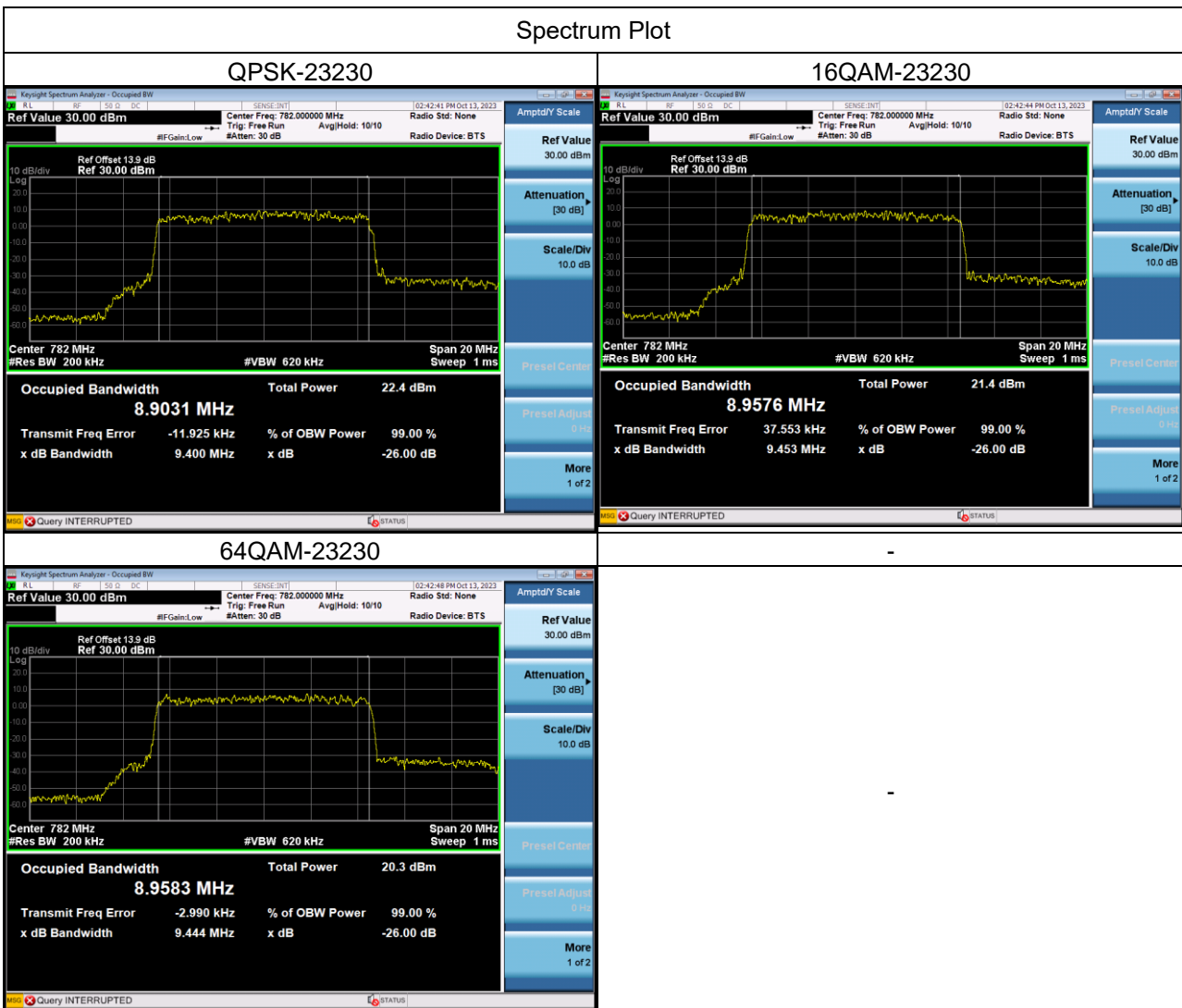
LTE Band 13_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23205	779.5	4.4708	23205	779.5	4.817
23230	782.0	4.4886	23230	782.0	4.832
23255	784.5	4.4918	23255	784.5	4.887
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23205	779.5	4.5259	23205	779.5	4.849
23230	782.0	4.5205	23230	782.0	4.822
23255	784.5	4.4988	23255	784.5	4.826
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23205	779.5	4.5057	23205	779.5	4.829
23230	782.0	4.4858	23230	782.0	4.835
23255	784.5	4.5032	23255	784.5	4.822

Spectrum Plot





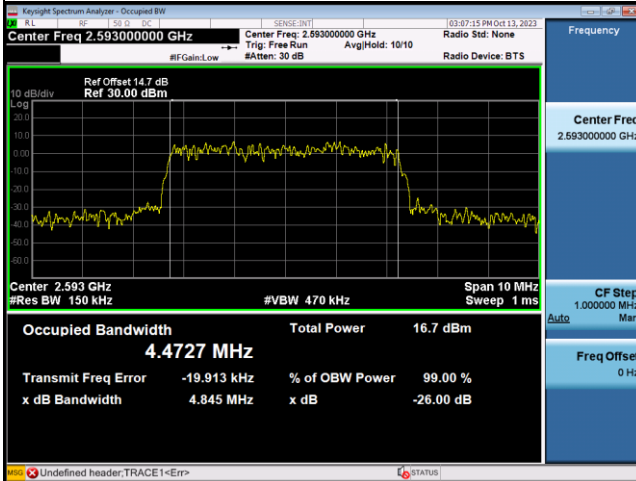
LTE Band 13_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9031	23230	782.0	9.400
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9576	23230	782.0	9.453
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	8.9583	23230	782.0	9.444



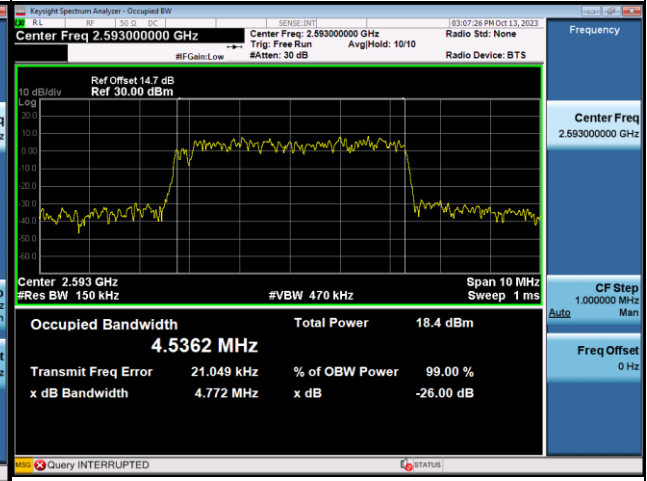
LTE Band 41_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.4727	39675	2498.5	4.845
40620	2593	4.5362	40620	2593	4.772
41565	2687.5	4.5216	41565	2687.5	4.794
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.5228	39675	2498.5	4.917
40620	2593	4.5336	40620	2593	4.852
41565	2687.5	4.4897	41565	2687.5	4.804
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39675	2498.5	4.5539	39675	2498.5	4.834
40620	2593	4.4964	40620	2593	4.781
41565	2687.5	4.5632	41565	2687.5	4.812

Spectrum Plot

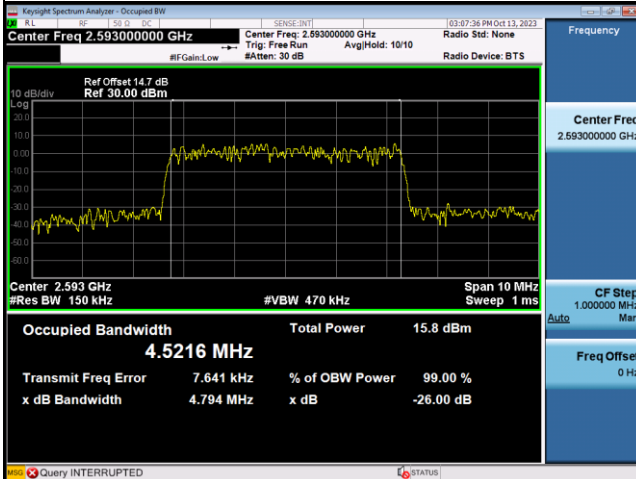
QPSK-39675



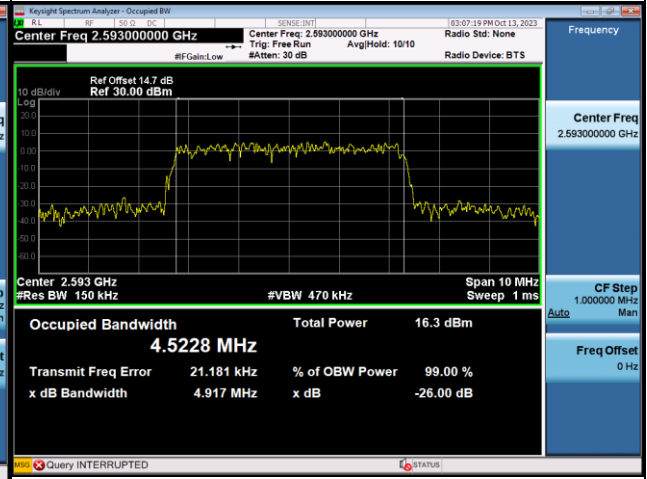
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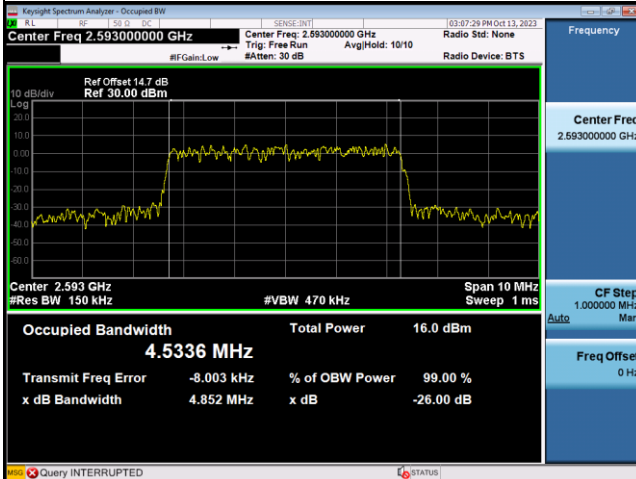
QPSK-41565



16QAM-39675



16QAM-40620



16QAM-41565

