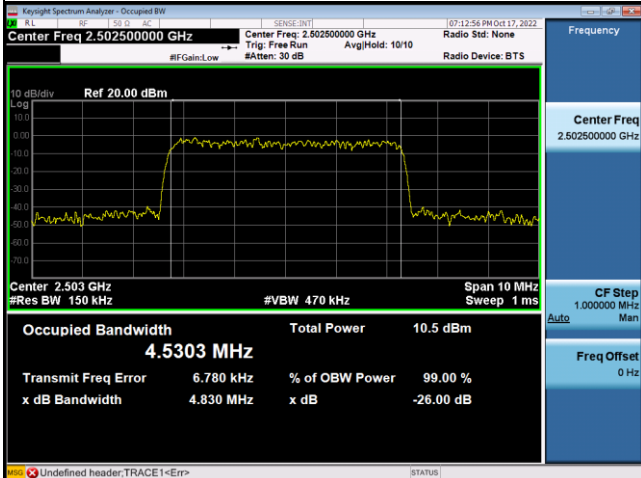
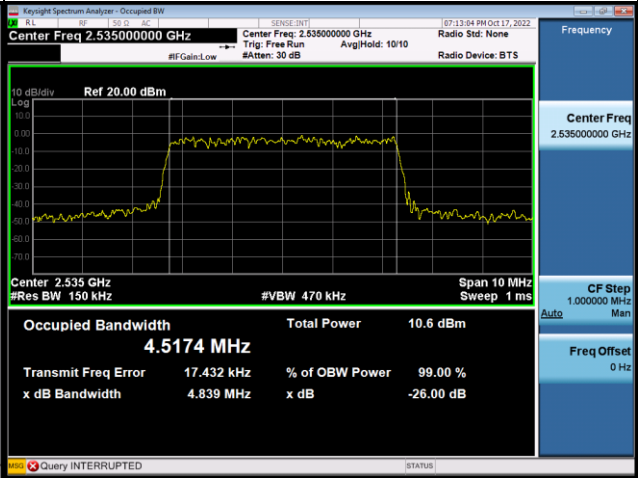


Spectrum Plot

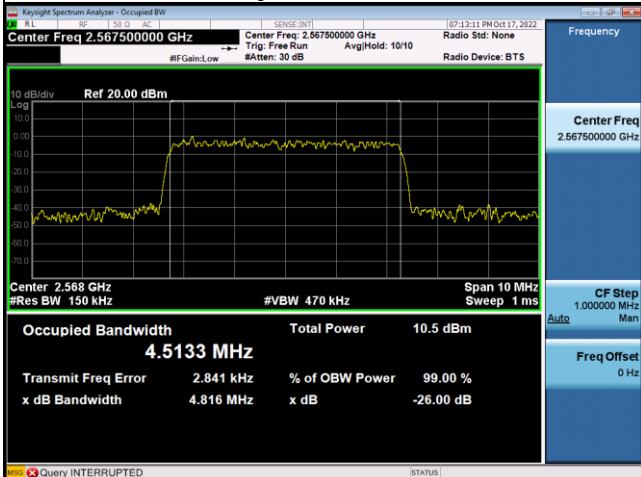
QPSK-20775



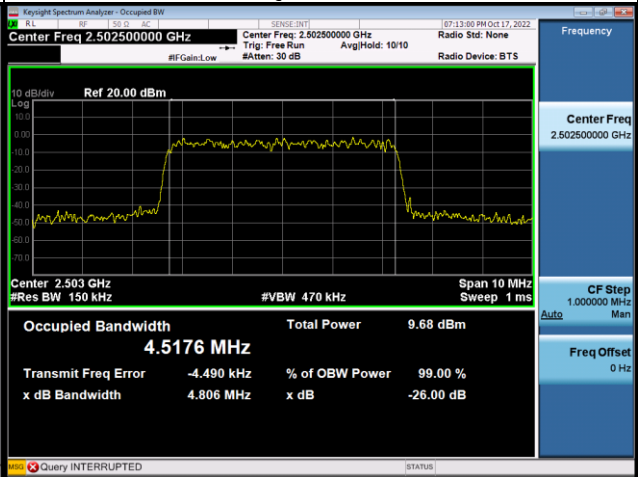
QPSK-21100



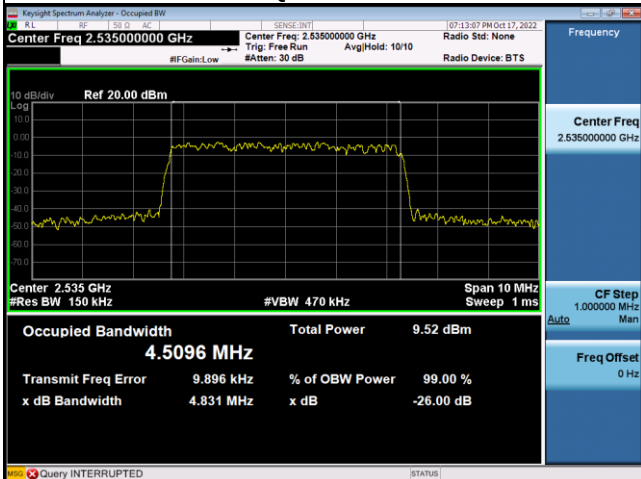
QPSK-21425



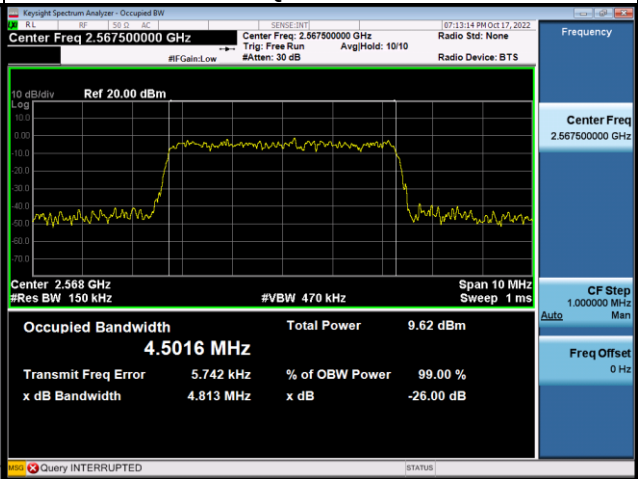
16QAM-20775



16QAM-21100

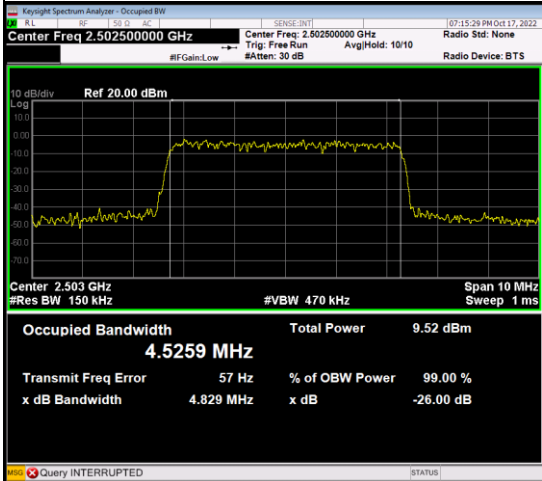


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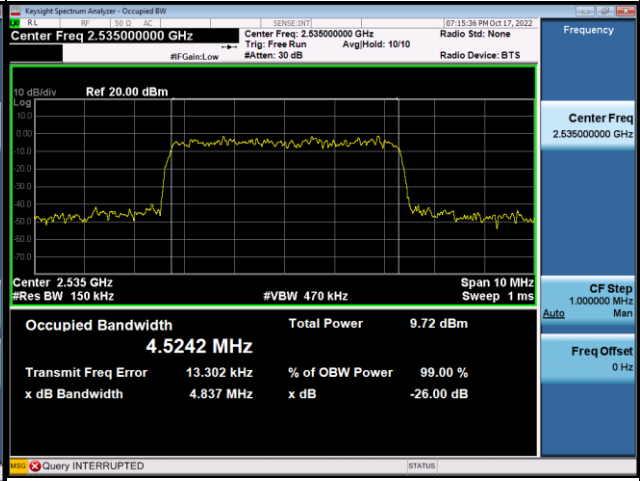


Spectrum Plot

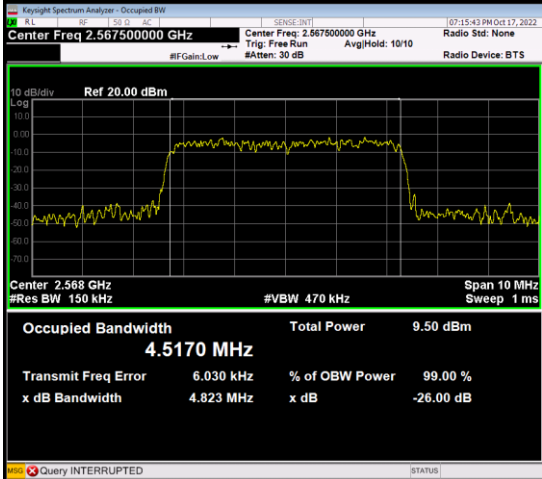
64QAM-20775



64QAM-21100



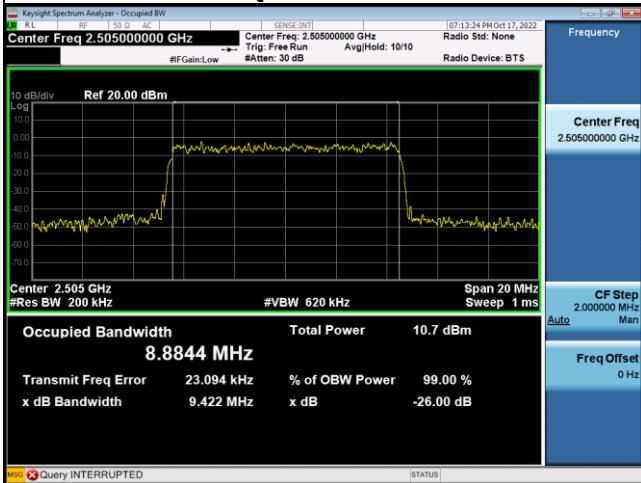
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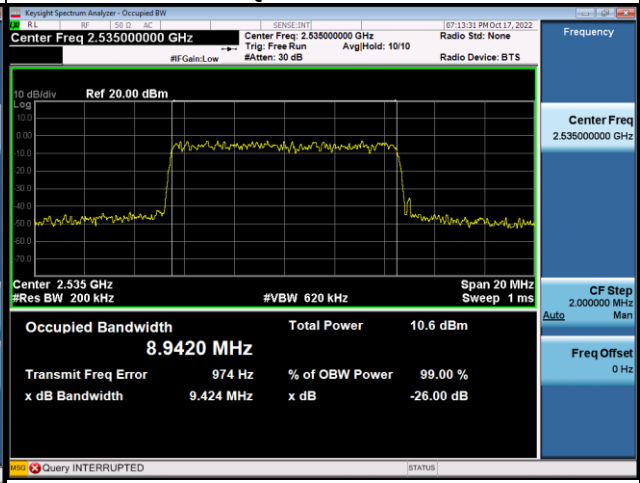
LTE Band 7_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20800	2505	8.8844	20800	2505	9.422
21100	2535	8.9420	21100	2535	9.424
21400	2565	8.9821	21400	2565	9.471
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20800	2505	8.9677	20800	2505	9.452
21100	2535	8.9590	21100	2535	9.486
21400	2565	8.9643	21400	2565	9.433
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20800	2505	8.9240	20800	2505	9.417
21100	2535	8.9739	21100	2535	9.503
21400	2565	8.9824	21400	2565	9.495

Spectrum Plot

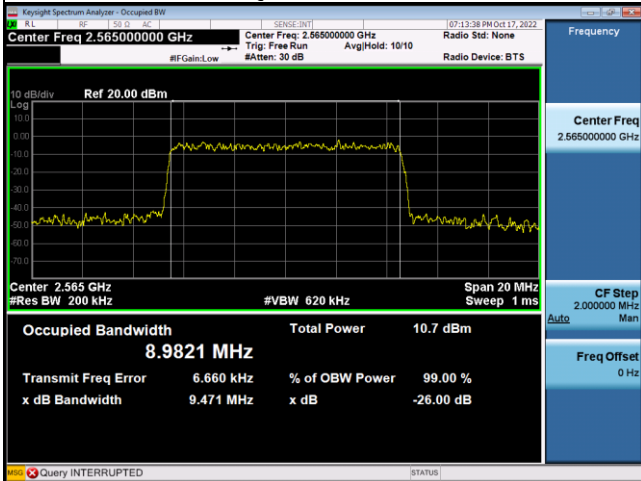
QPSK-20800



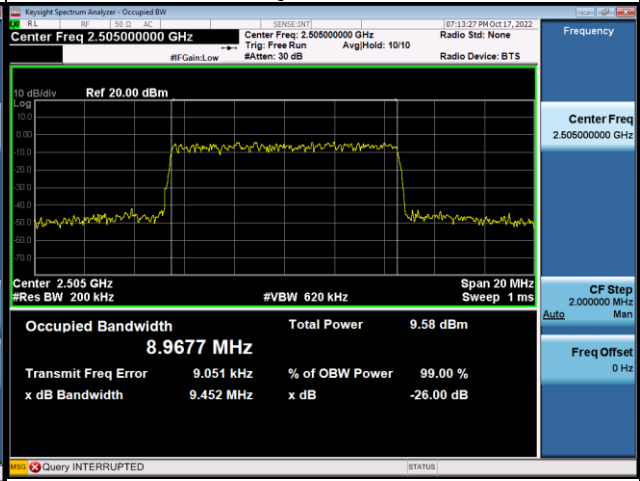
QPSK-21100



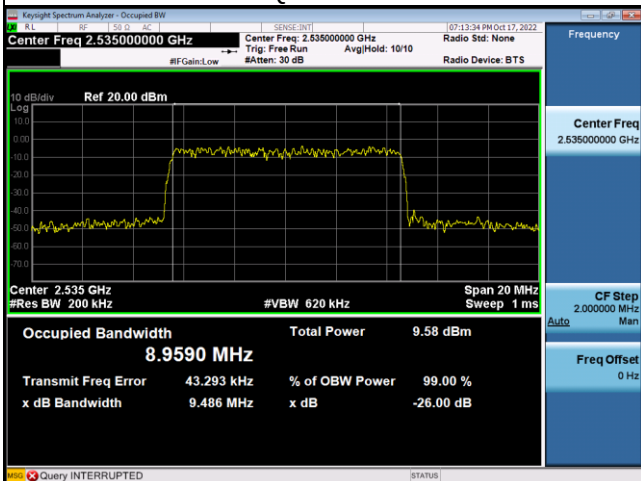
QPSK-21400



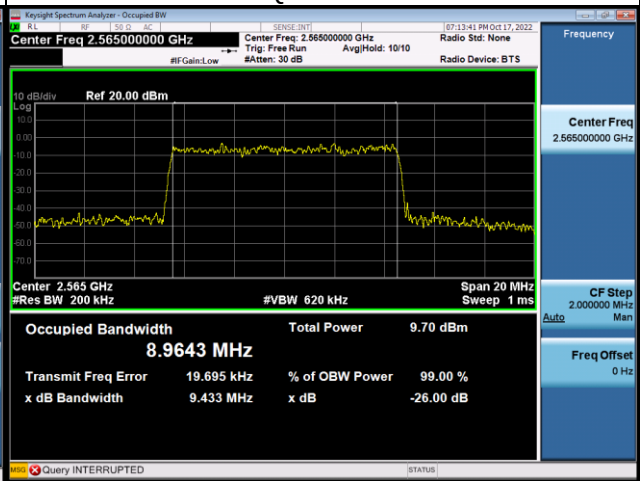
16QAM-20800



16QAM-21100

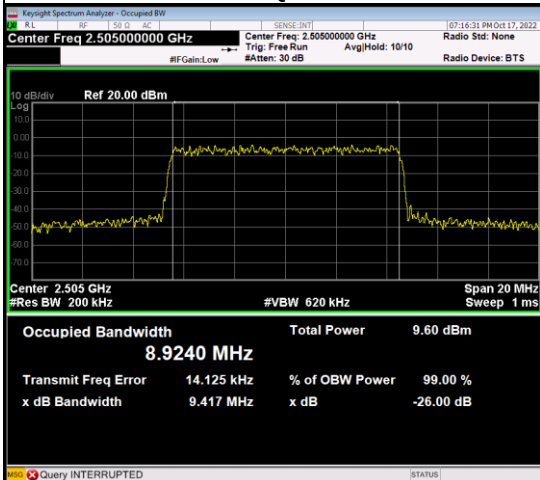


16QAM-21400

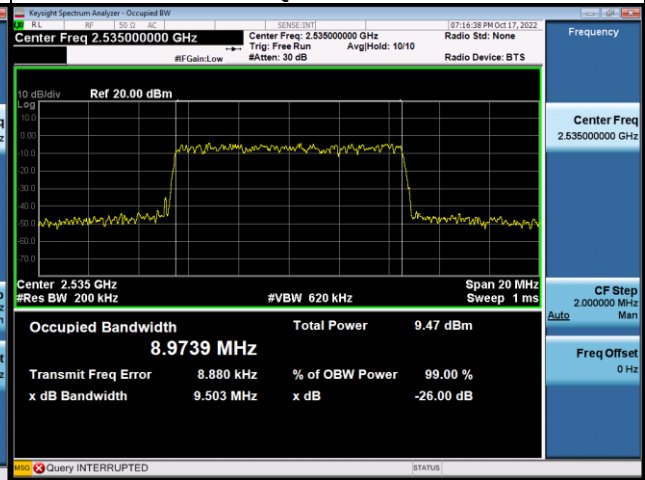


Spectrum Plot

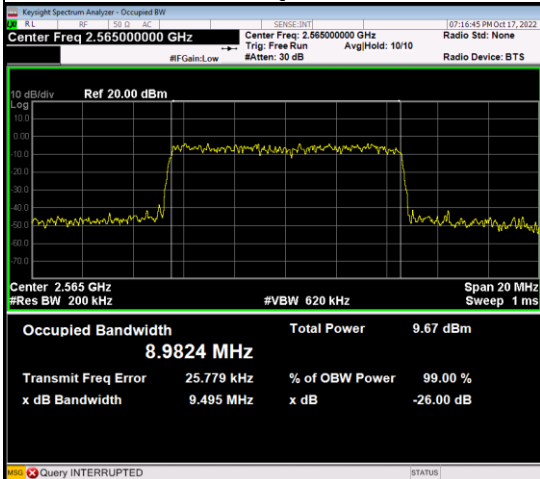
64QAM-20800



64QAM-21100



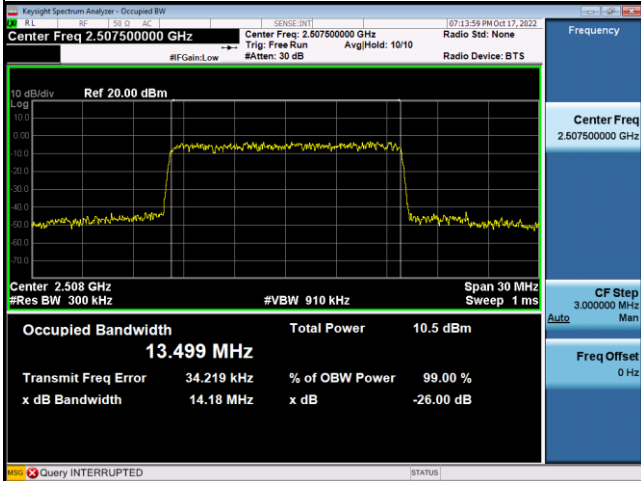
64QAM-21400



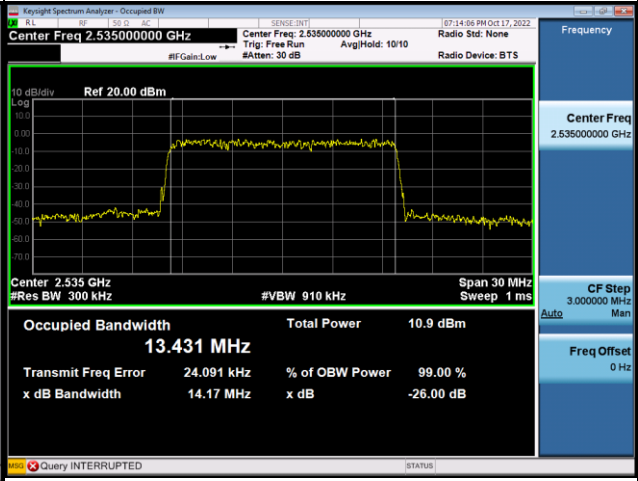
LTE Band 7_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20825	2507.5	13.499	20825	2507.5	14.18
21100	2535	13.431	21100	2535	14.17
21375	2562.5	13.507	21375	2562.5	14.13
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20825	2507.5	13.378	20825	2507.5	14.21
21100	2535	13.456	21100	2535	14.16
21375	2562.5	13.475	21375	2562.5	14.20
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20825	2507.5	13.421	20825	2507.5	14.17
21100	2535	13.475	21100	2535	14.17
21375	2562.5	13.460	21375	2562.5	14.13

Spectrum Plot

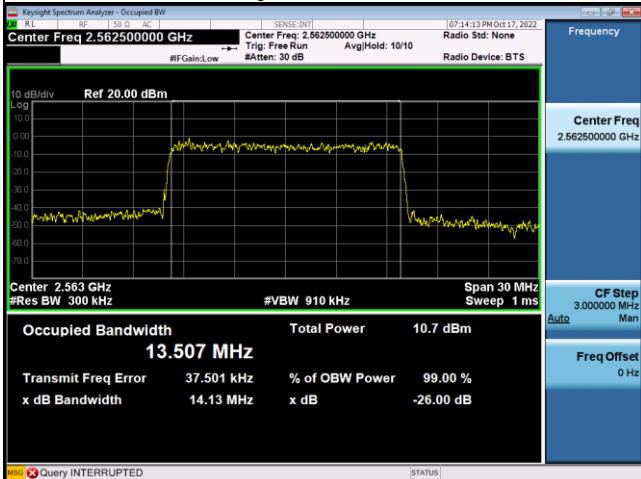
QPSK-20825



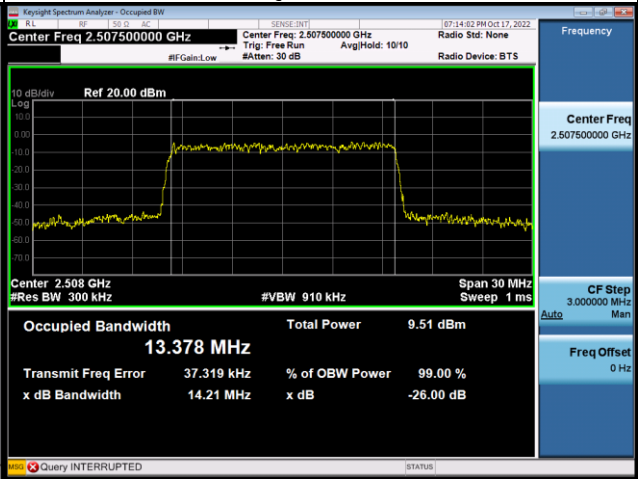
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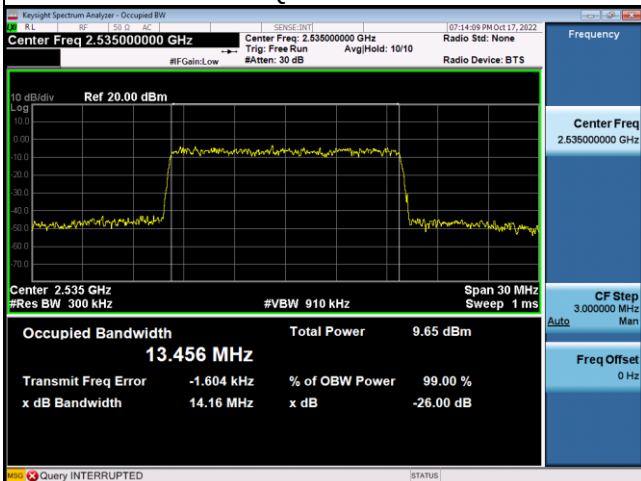
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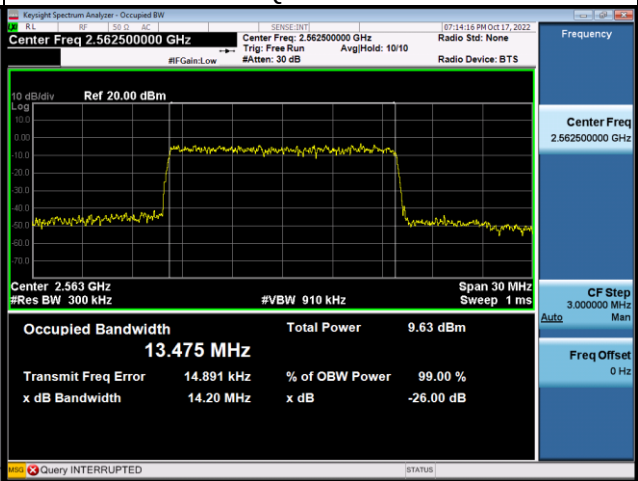
16QAM-20825



16QAM-21100

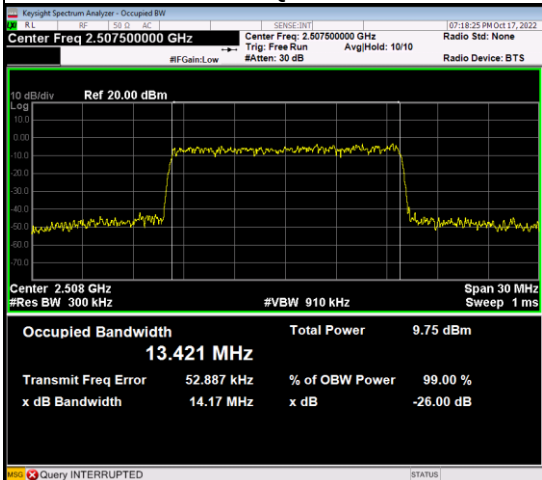


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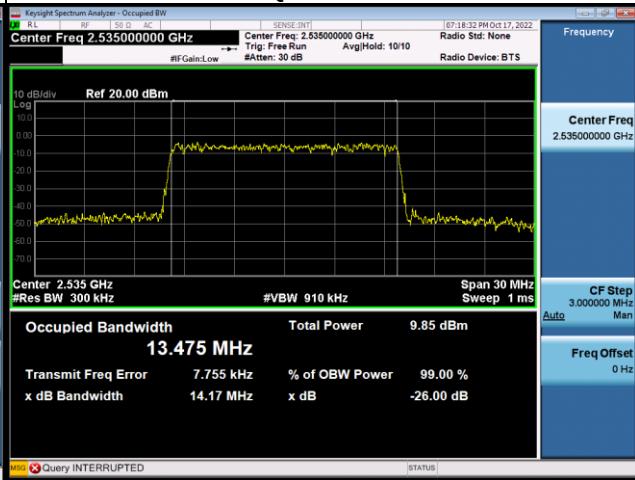


Spectrum Plot

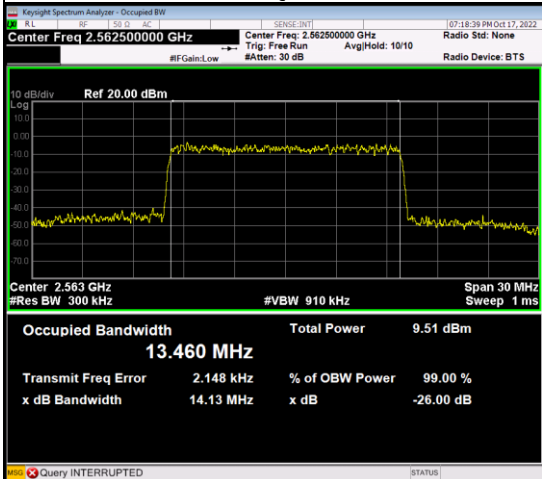
64QAM-20825



64QAM-21100



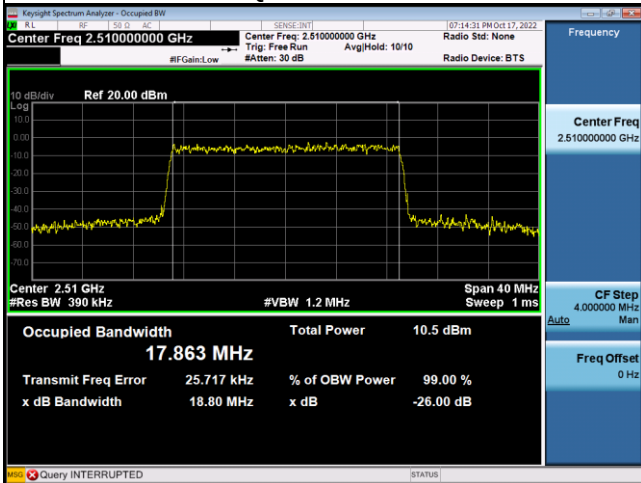
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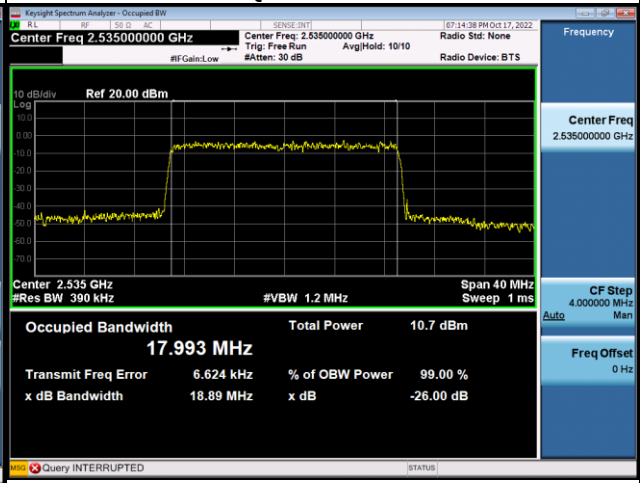
LTE Band 7_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20850	2510	17.863	20850	2510	18.80
21100	2535	17.993	21100	2535	18.89
21350	2560	17.954	21350	2560	18.86
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20850	2510	17.907	20850	2510	18.88
21100	2535	17.851	21100	2535	18.86
21350	2560	17.906	21350	2560	18.81
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20850	2510	17.892	20850	2510	18.82
21100	2535	17.978	21100	2535	18.86
21350	2560	17.900	21350	2560	18.81

Spectrum Plot

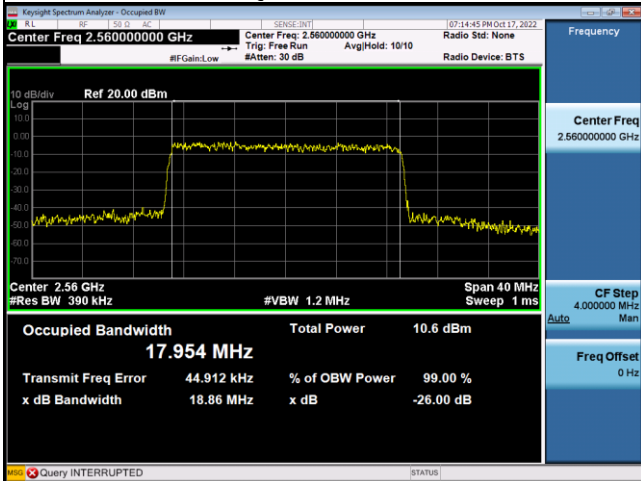
QPSK-20850



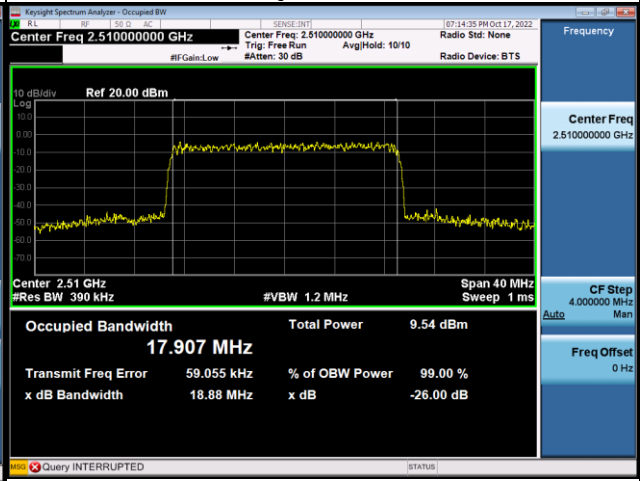
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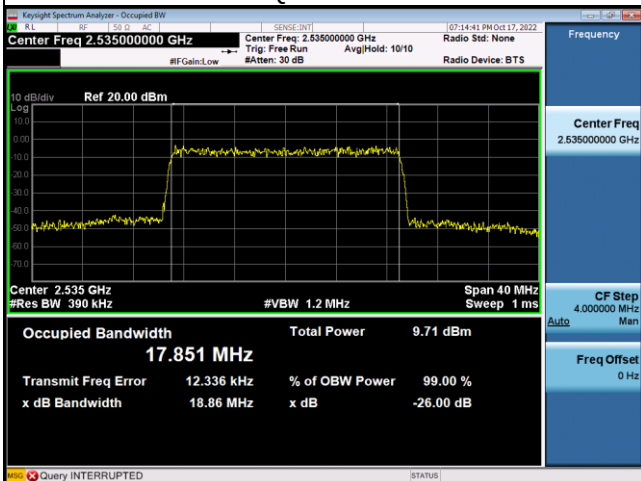
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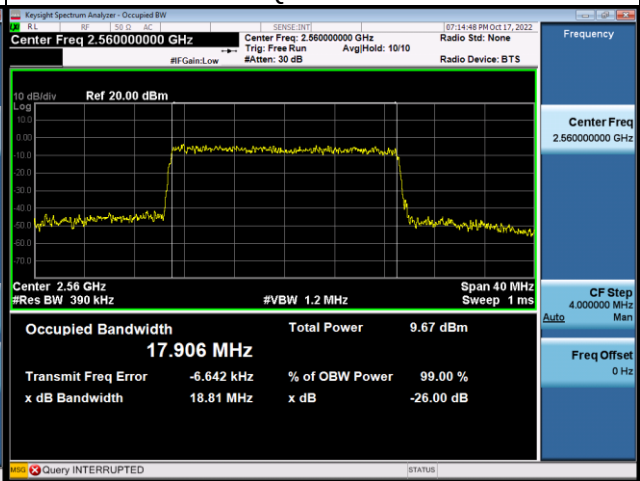
16QAM-20850



16QAM-21100

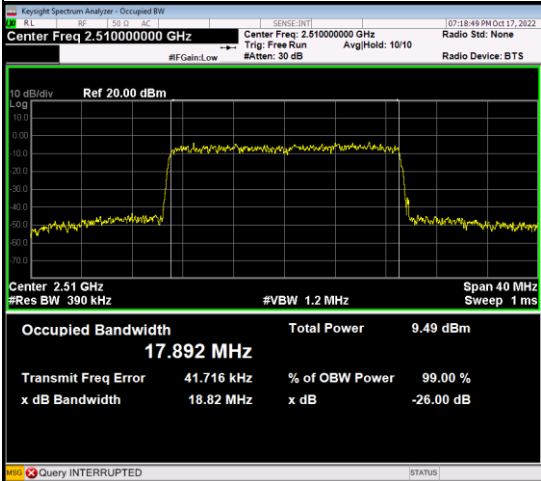


16QAM-21350

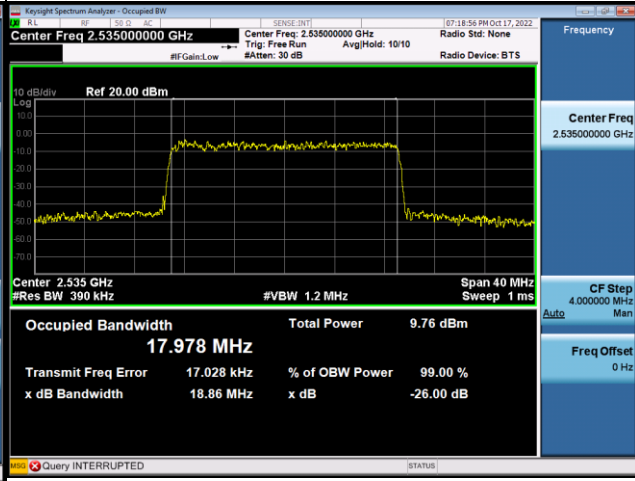


Spectrum Plot

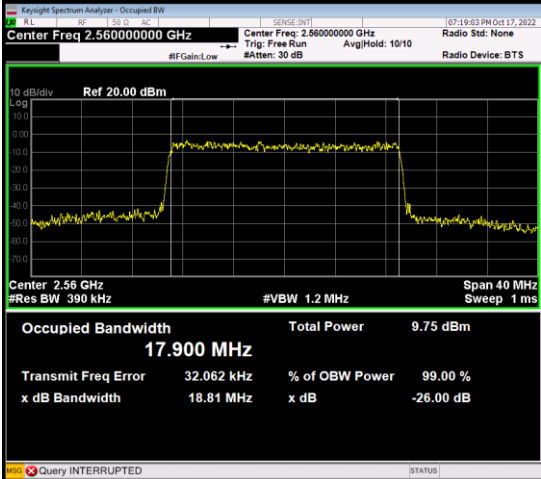
64QAM-20850



64QAM-21100



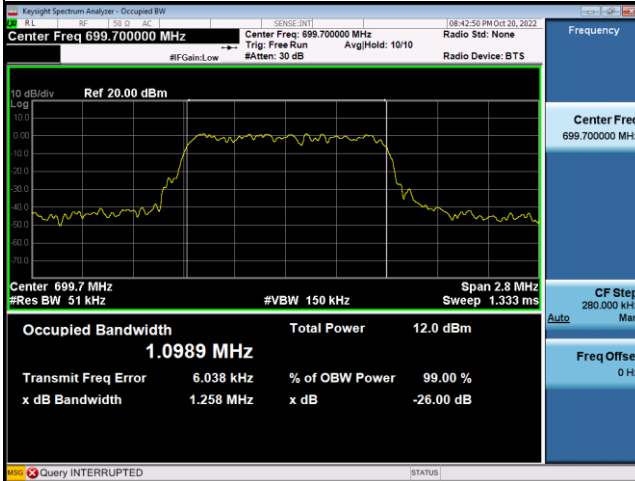
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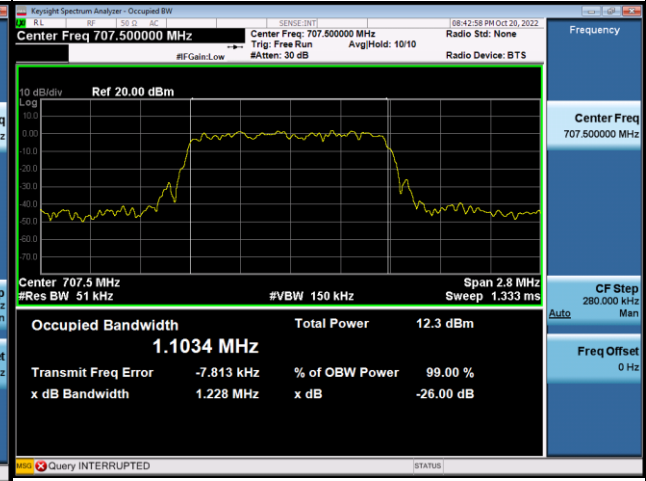
LTE Band 12_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.0989	23017	699.7	1.258
23095	707.5	1.1034	23095	707.5	1.228
23173	715.3	1.1018	23173	715.3	1.232
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.1102	23017	699.7	1.248
23095	707.5	1.0921	23095	707.5	1.215
23173	715.3	1.0988	23173	715.3	1.197
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.1118	23017	699.7	1.216
23095	707.5	1.0916	23095	707.5	1.226
23173	715.3	1.1070	23173	715.3	1.228

Spectrum Plot

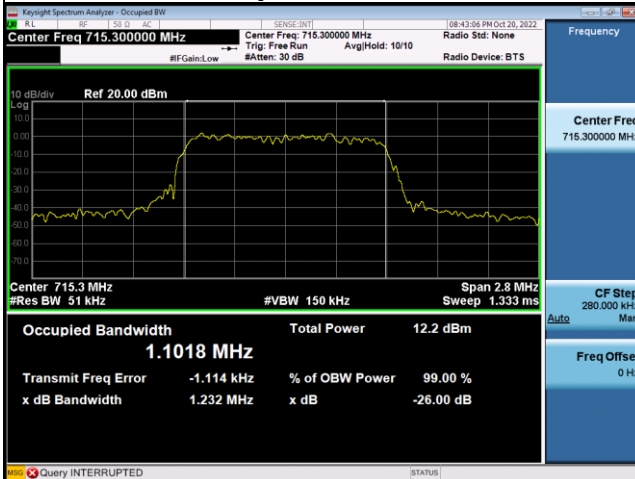
QPSK-23017



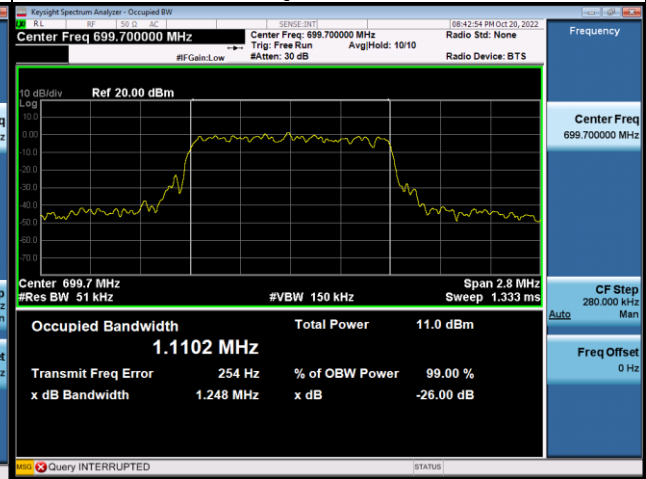
QPSK-23095



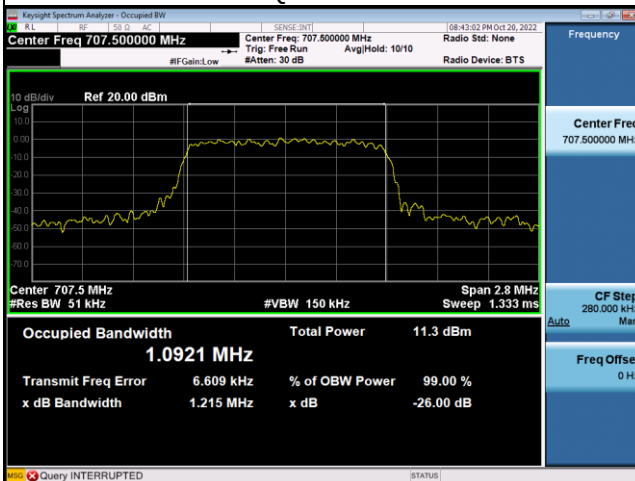
QPSK-23173



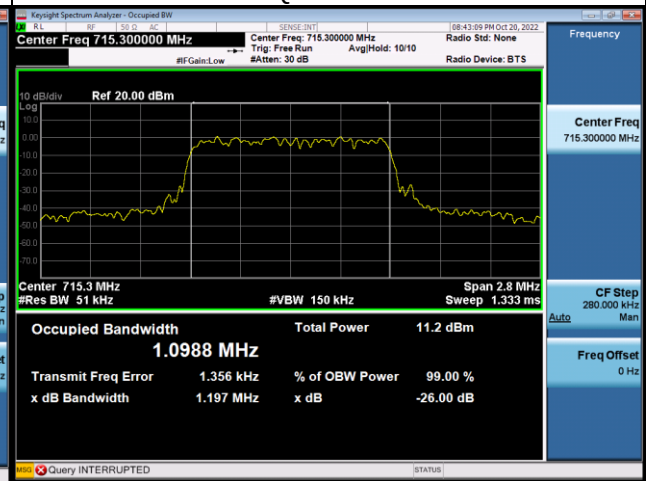
16QAM-23017



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	2.7327	23025	700.5	2.940
23095	707.5	2.7007	23095	707.5	2.922
23165	714.5	2.7117	23165	714.5	2.939
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.7305	23025	700.5	2.960
23095	707.5	2.7189	23095	707.5	2.917
23165	714.5	2.7049	23165	714.5	2.921
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.7097	23025	700.5	2.919
23095	707.5	2.7246	23095	707.5	2.926
23165	714.5	2.7017	23165	714.5	2.919