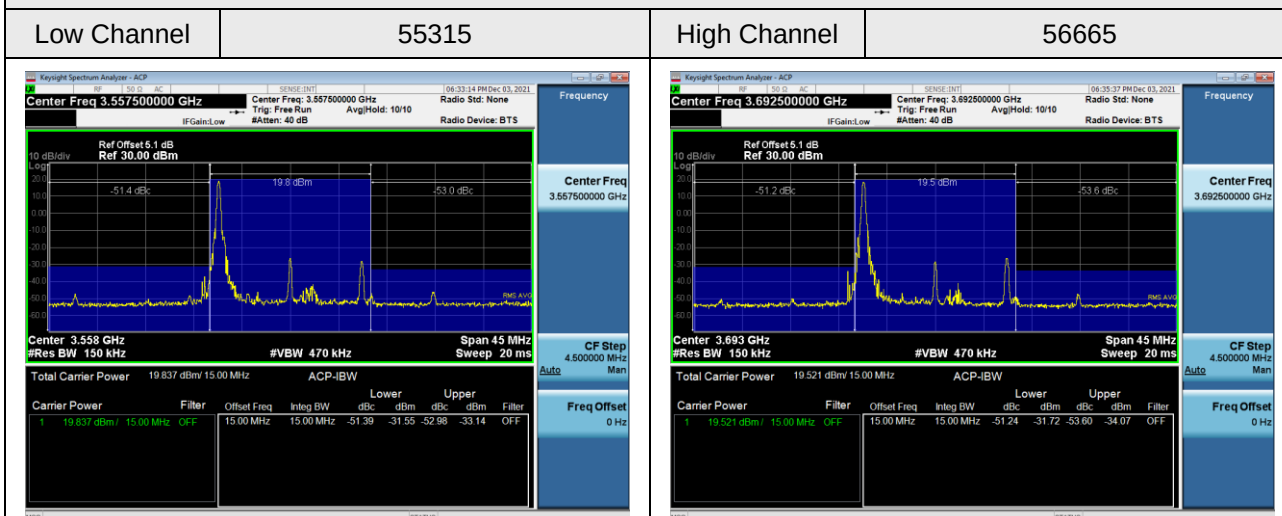
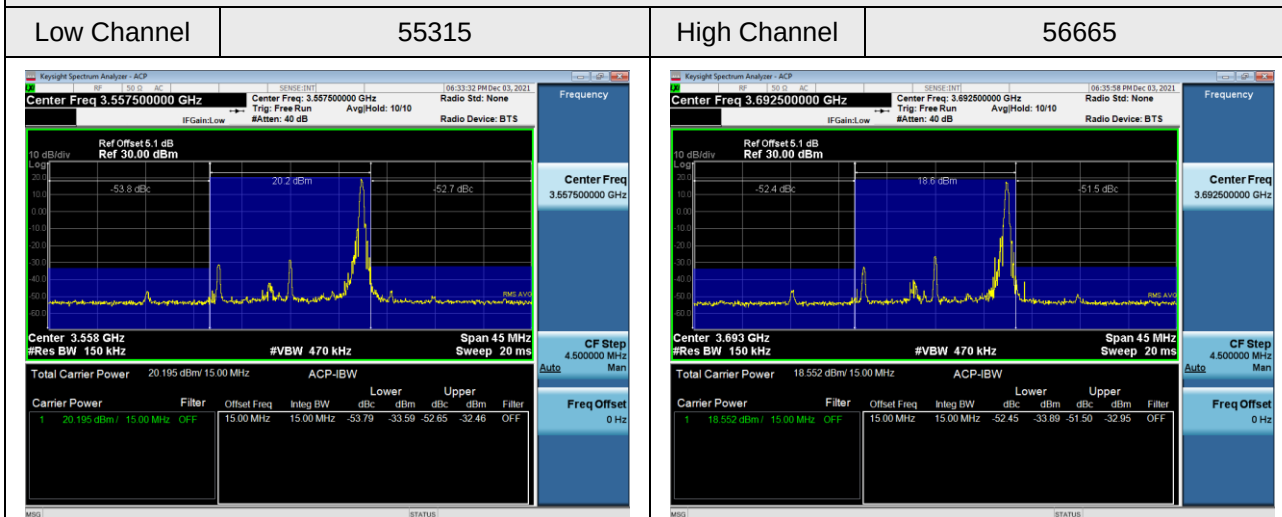


LTE Band 48_15MHz Spectrum Plot

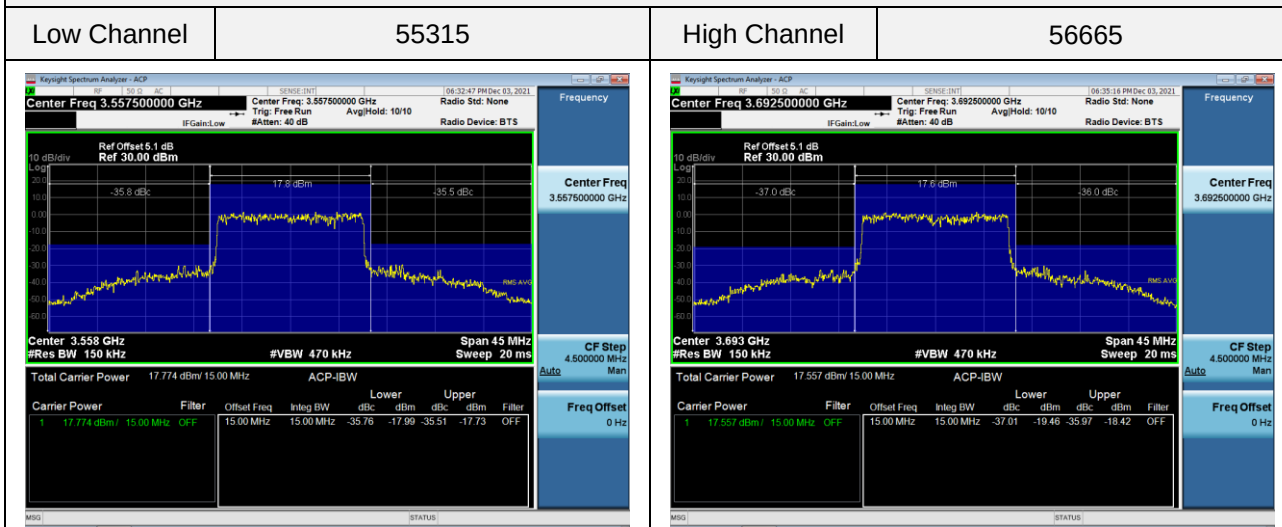
1RB#0

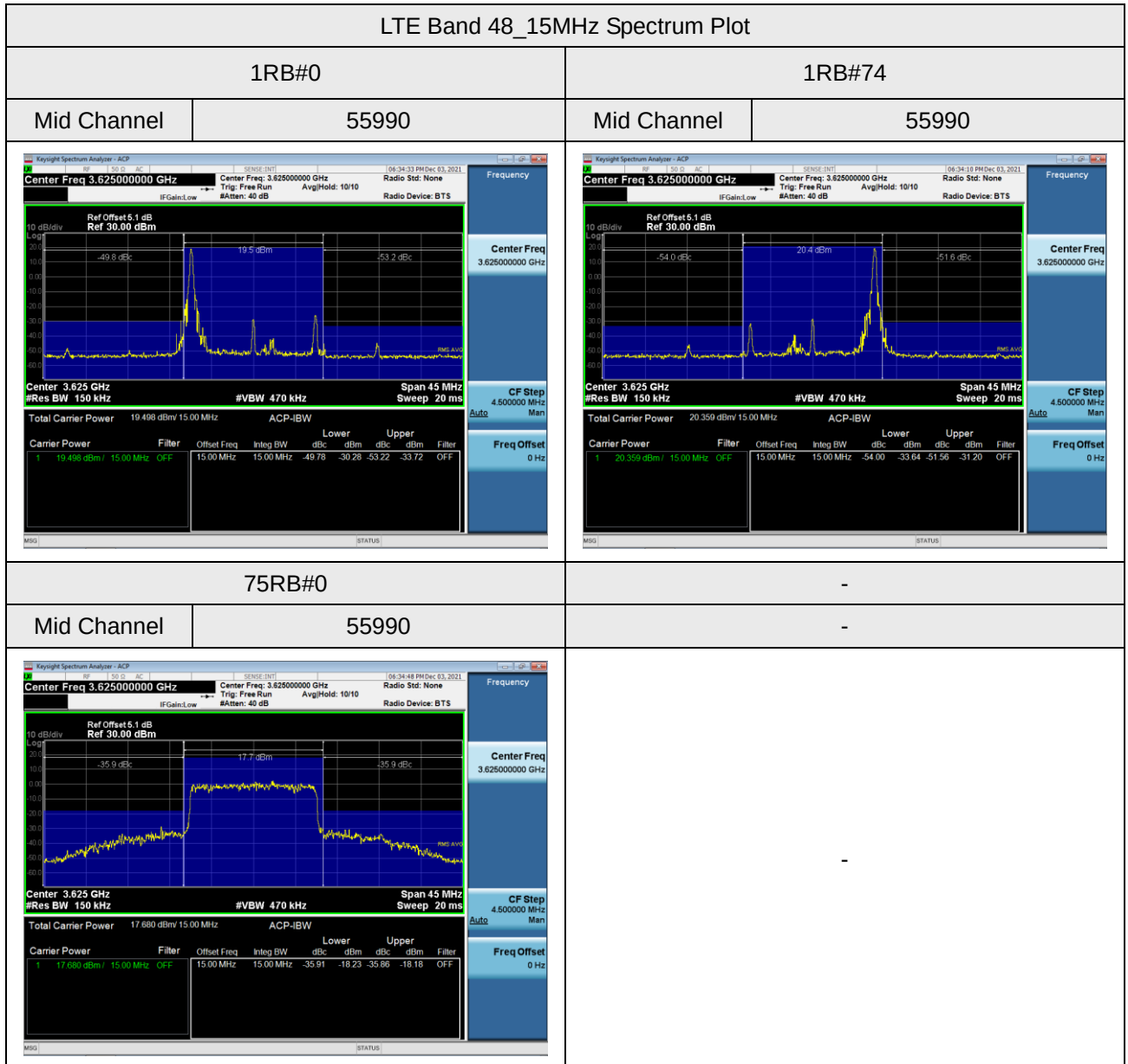


1RB#74



75RB#0





LTE Band 48_20MHz Spectrum Plot

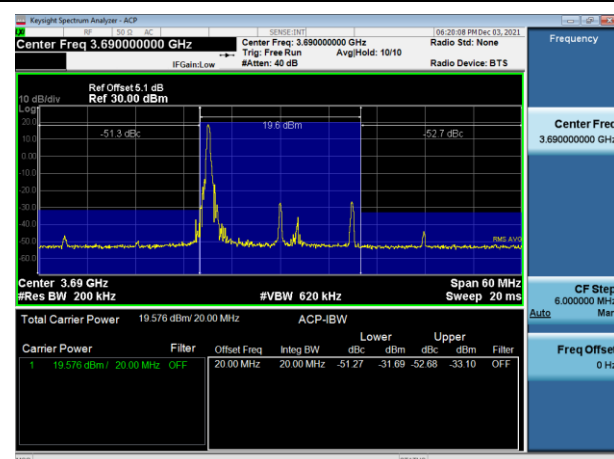
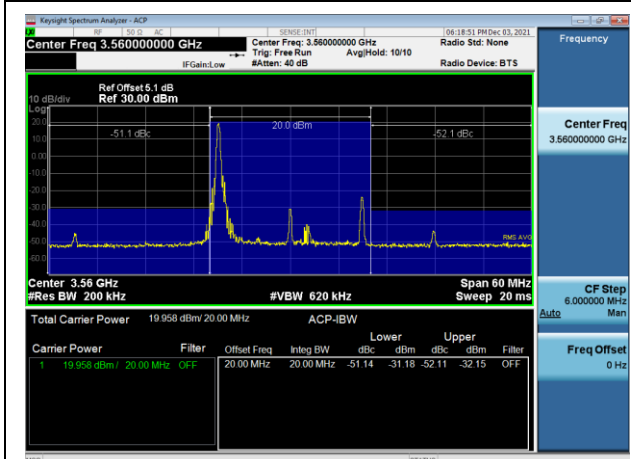
1RB#0

Low Channel

55340

High Channel

56640



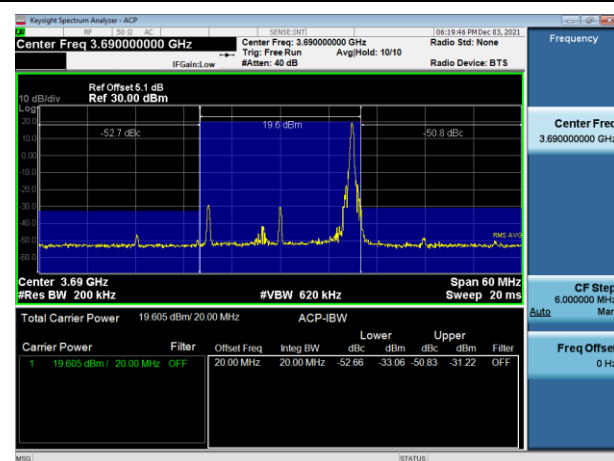
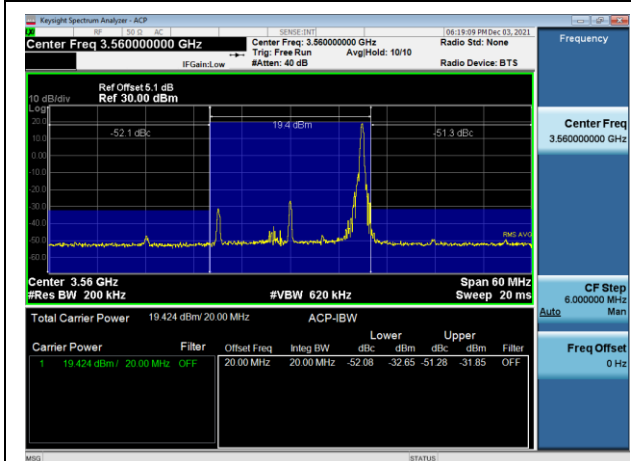
1RB#99

Low Channel

55340

High Channel

56640



100RB#0

Low Channel

55340

High Channel

56640



LTE Band 48_20MHz Spectrum Plot			
1RB#0		1RB#99	
Mid Channel	55990	Mid Channel	55990
Keylight Spectrum Analyzer - ACP Center Freq 3.625000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 5.1 dB Ref 30.00 dBm 10 dB/div Log -47.4 dBc 19.9 dBm -51.7 dBc Center 3.625 GHz #Res BW 200 kHz #VBW 620 kHz Span 60 MHz Sweep 20 ms Total Carrier Power 18.859 dBm/20.00 MHz ACP-IBW Carrier Power Filter Offset Freq Integ BW dBc dBm Lower dBc dBm Upper dBm Filter 1 18.859 dBm / 20.00 MHz OFF 20.00 MHz 20.00 MHz -47.42 -28.56 -51.75 -32.89 OFF Frequency Center Freq 3.625000000 GHz CF Step 6.000000 MHz Freq Offset 0 Hz		Keylight Spectrum Analyzer - ACP Center Freq 3.625000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 5.1 dB Ref 30.00 dBm 10 dB/div Log -52.0 dBc 19.5 dBm -51.2 dBc Center 3.625 GHz #Res BW 200 kHz #VBW 620 kHz Span 60 MHz Sweep 20 ms Total Carrier Power 19.464 dBm/20.00 MHz ACP-IBW Carrier Power Filter Offset Freq Integ BW dBc dBm Lower dBc dBm Upper dBm Filter 1 19.464 dBm / 20.00 MHz OFF 20.00 MHz 20.00 MHz -52.02 -32.56 -51.19 -31.72 OFF Frequency Center Freq 3.625000000 GHz CF Step 6.000000 MHz Freq Offset 0 Hz	
100RB#0		-	
Mid Channel	55990	-	
Keylight Spectrum Analyzer - ACP Center Freq 3.625000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 5.1 dB Ref 30.00 dBm 10 dB/div Log -36.6 dBc 17.7 dBm -36.5 dBc Center 3.625 GHz #Res BW 200 kHz #VBW 620 kHz Span 60 MHz Sweep 20 ms Total Carrier Power 17.738 dBm/20.00 MHz ACP-IBW Carrier Power Filter Offset Freq Integ BW dBc dBm Lower dBc dBm Upper dBm Filter 1 17.738 dBm / 20.00 MHz OFF 20.00 MHz 20.00 MHz -36.60 -18.87 -36.46 -18.72 OFF Frequency Center Freq 3.625000000 GHz CF Step 6.000000 MHz Freq Offset 0 Hz		-	

APPENDIX H - FREQUENCY STABILITY

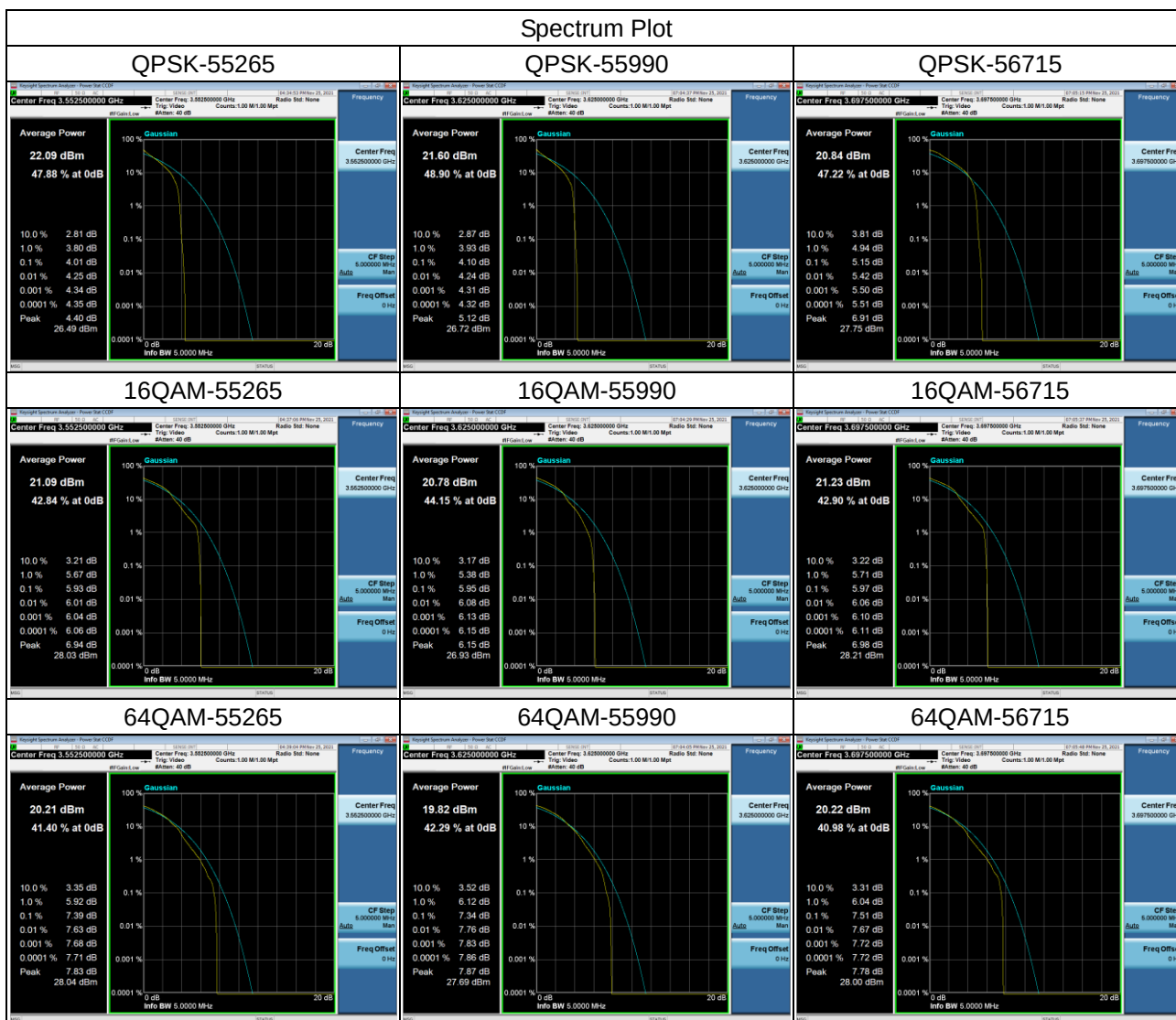
Test Mode:	LTE Band 48_20MHz
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Temperature (°C)	Frequency (MHz)		worst ppm
	Low channel limit:3550 Reference point -13dBm	High channel limit:3700 Reference point -13dBm	Record only
50	3550.711367	3699.298451	200.3850704
40	3550.711342	3699.298419	200.3780282
30	3550.711393	3699.298413	200.3923944
20	3550.711357	3699.298496	200.3822535
10	3550.711324	3699.298451	200.3729577
0	3550.711344	3699.298447	200.3785915
-10	3550.711365	3699.298439	200.384507
-20	3550.711361	3699.298455	200.3833803
-30	3550.711345	3699.298473	200.3788732
Minimum voltage	3550.711328	3699.298428	200.3740845
Maximum voltage	3550.711375	3699.298444	200.3873239
Nominal voltage	3550.711379	3699.298484	200.3884507

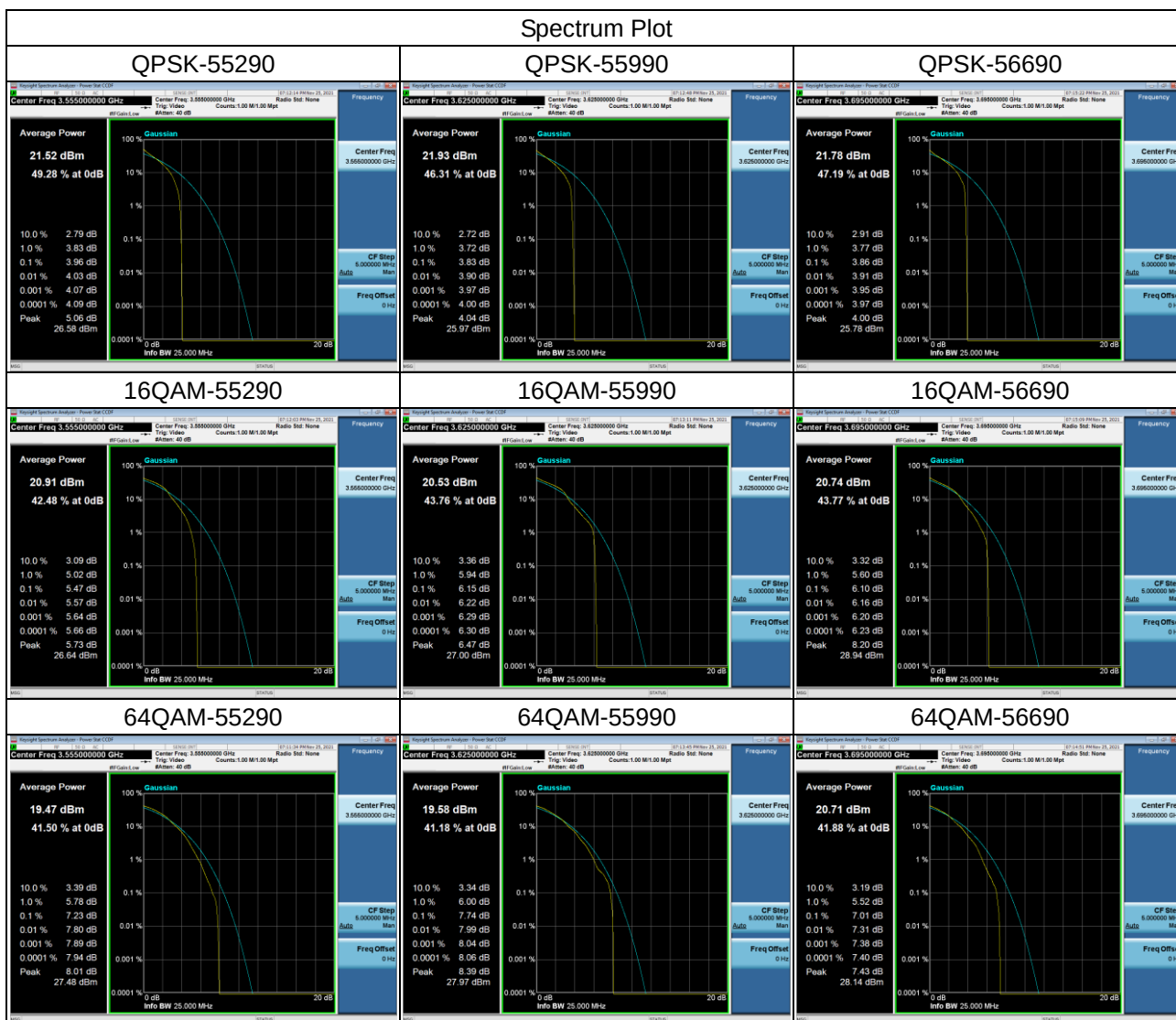
Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

APPENDIX I - PEAK TO AVERAGE RATIO

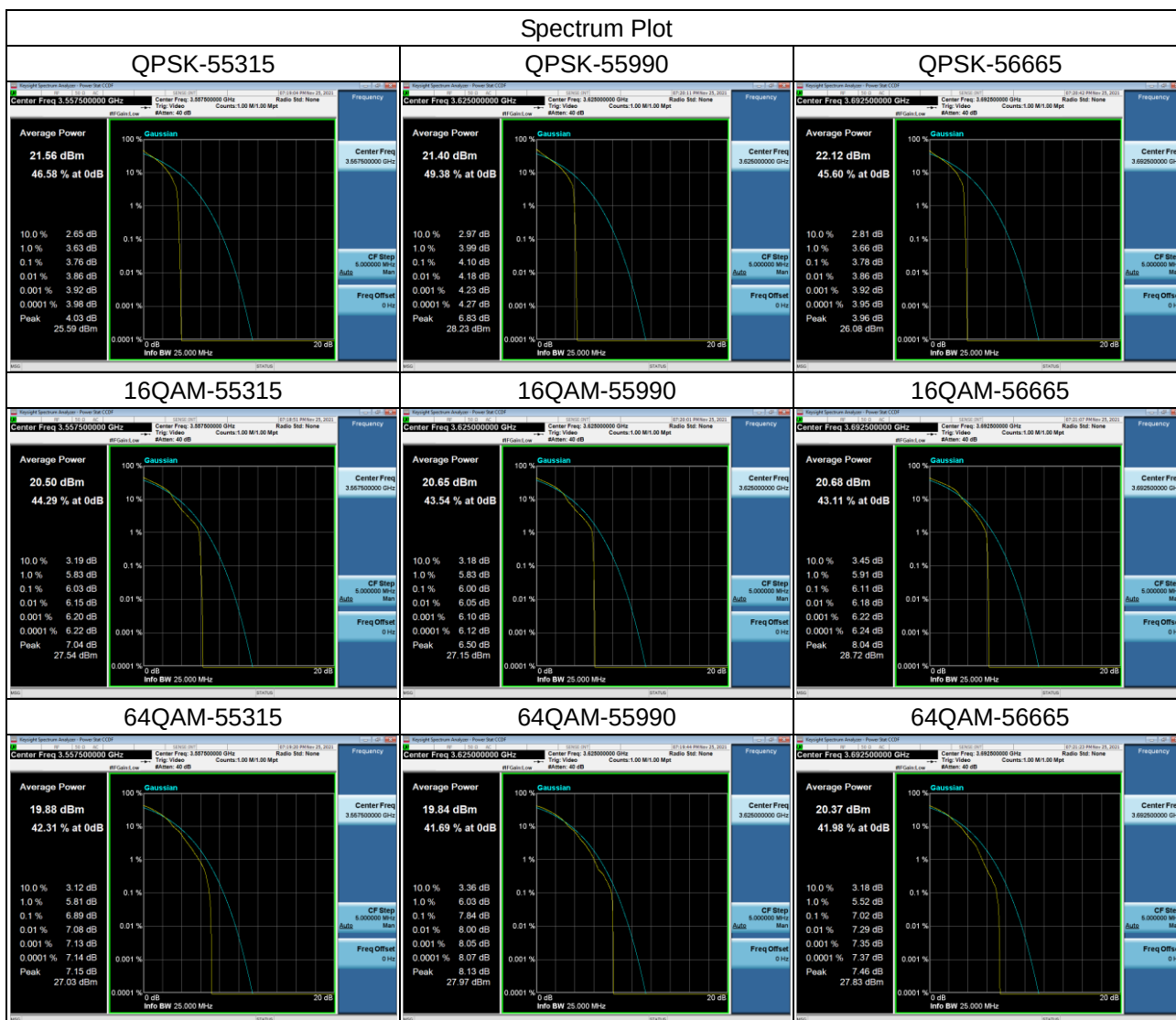
LTE Band 48_5MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
55265	3552.5	4.01	5.93	7.39	13	Pass
55990	3625.0	4.10	5.95	7.34	13	Pass
56715	3697.5	5.15	5.97	7.51	13	Pass



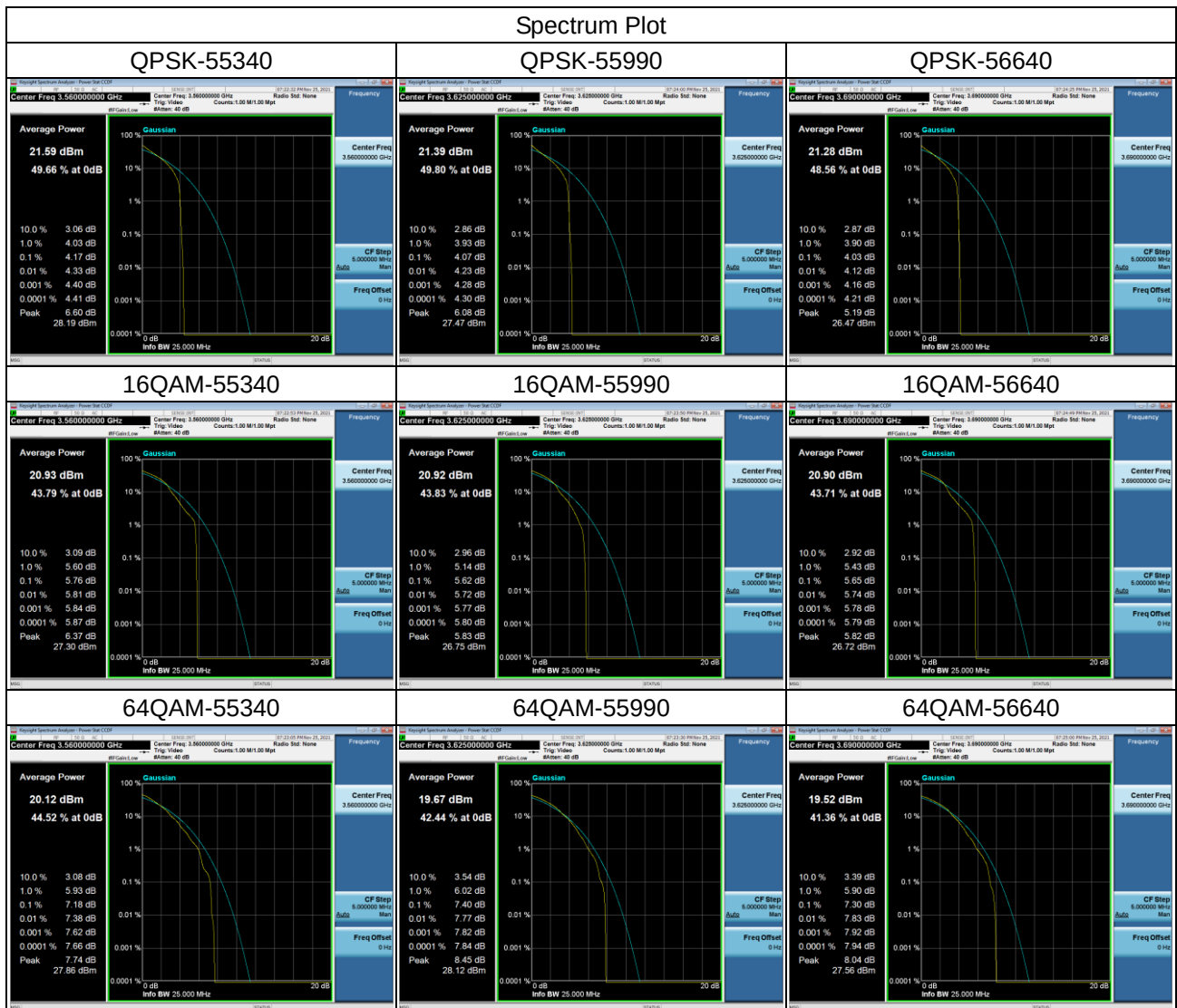
LTE Band 48_10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
55290	3555.0	3.96	5.47	7.23	13	Pass
55990	3625.0	3.83	6.15	7.74	13	Pass
56690	3695.0	3.86	6.10	7.01	13	Pass



LTE Band 48_15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
55315	3557.5	3.76	6.03	6.89	13	Pass
55990	3625.0	4.10	6.00	7.84	13	Pass
56665	3692.5	3.78	6.11	7.02	13	Pass



LTE Band 48_20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
55340	3560.0	4.17	5.76	7.18	13	Pass
55990	3625.0	4.07	5.62	7.40	13	Pass
56640	3690.0	4.03	5.65	7.30	13	Pass



End of Test Report