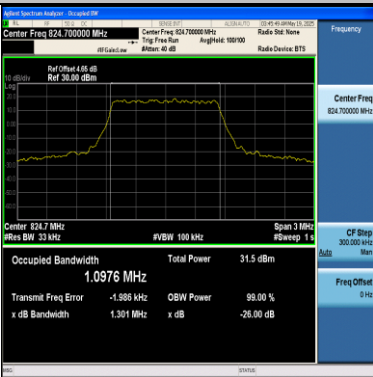
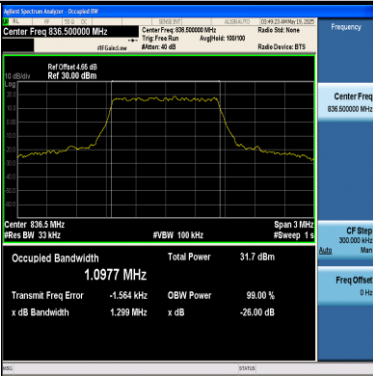
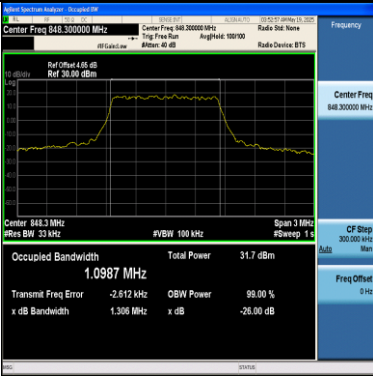
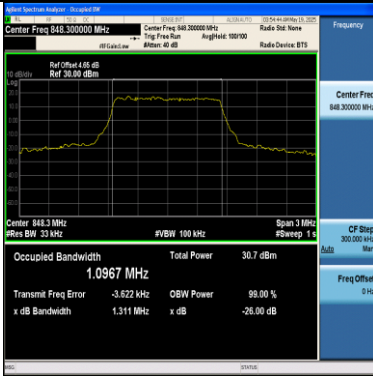
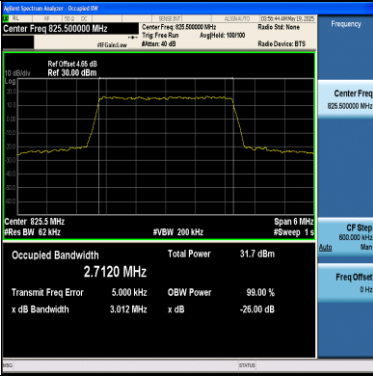
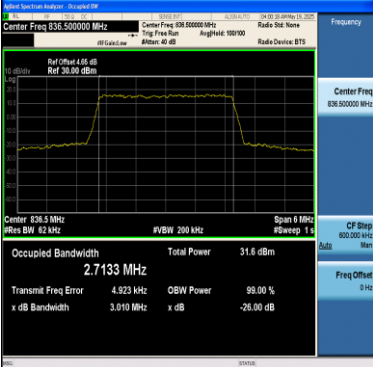
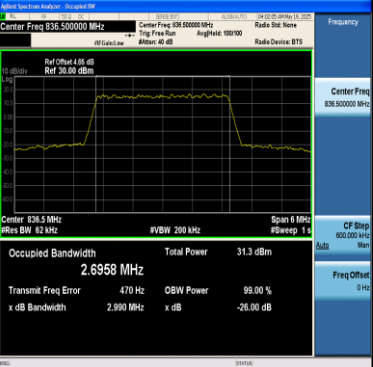
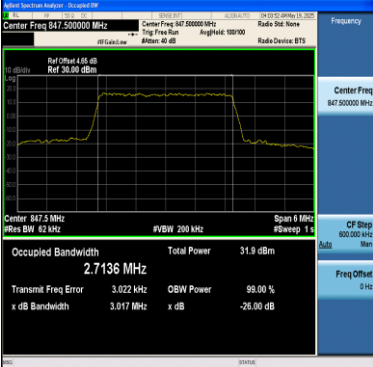
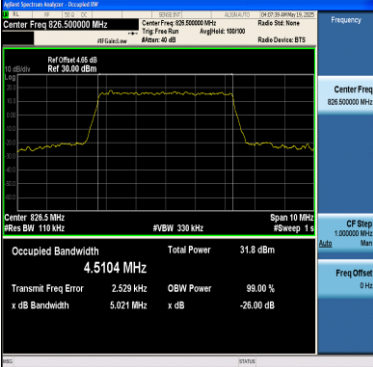
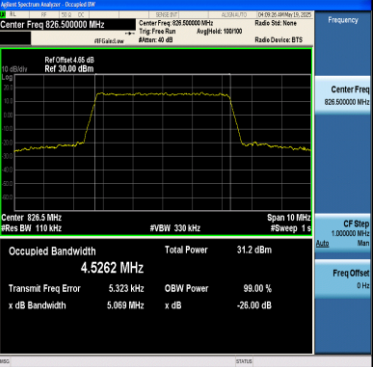
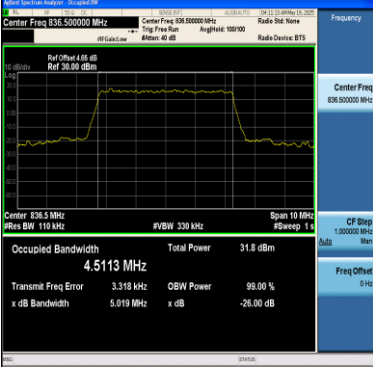
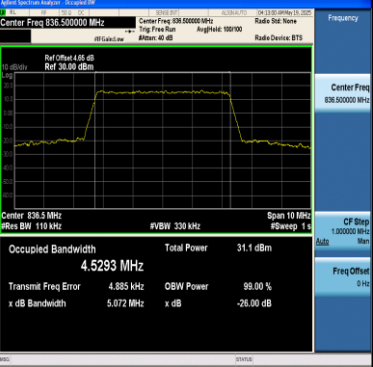


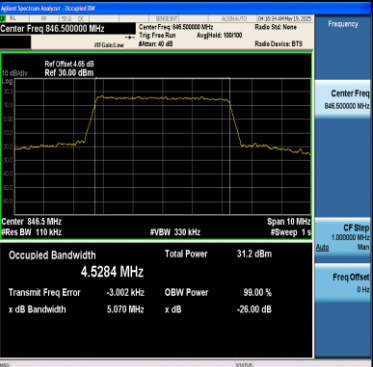
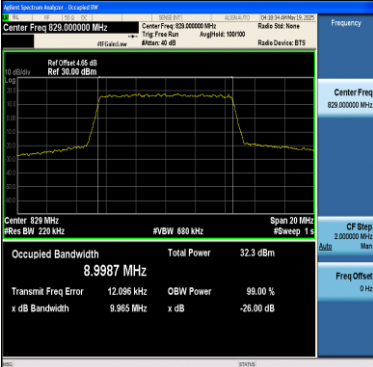
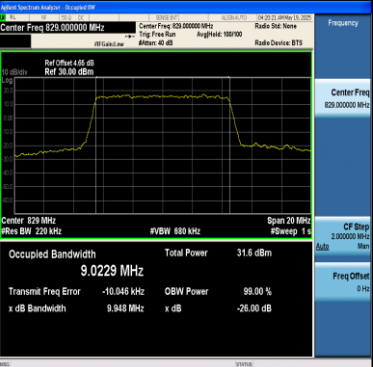
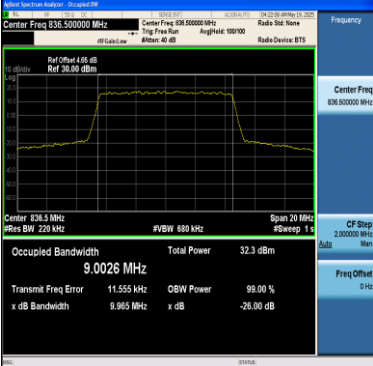
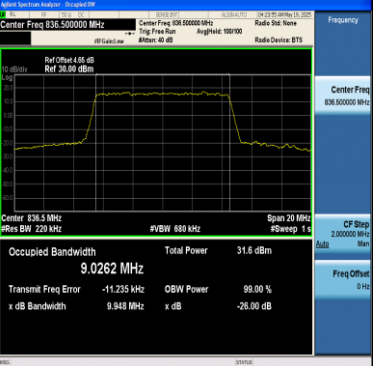
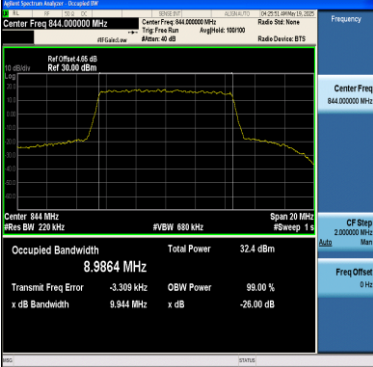
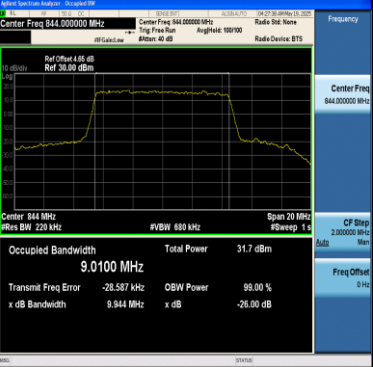
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Band4-15MHz-QPSK-20175-75RB#0-PASS Center Freq 1.732500000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Center Freq 1.733 GHz #Res BW 330 kHz #VBW 1 MHz Span 30 MHz CF Step 3.000000 MHz #Sweep 1 s Occupied Bandwidth 13.464 MHz Total Power 32.1 dBm Transmit Freq Error 11.842 kHz x dB Bandwidth 14.84 MHz OBW Power 99.00 % x dB -26.00 dB	Band4-15MHz-16QAM-20175-75RB#0-PASS Center Freq 1.732500000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Center Freq 1.733 GHz #Res BW 330 kHz #VBW 1 MHz Span 30 MHz CF Step 3.000000 MHz #Sweep 1 s Occupied Bandwidth 13.461 MHz Total Power 31.4 dBm Transmit Freq Error 10.216 kHz x dB Bandwidth 14.81 MHz OBW Power 99.00 % x dB -26.00 dB
Band4-15MHz-QPSK-20325-75RB#0-PASS Center Freq 1.747500000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Center Freq 1.748 GHz #Res BW 330 kHz #VBW 1 MHz Span 30 MHz CF Step 3.000000 MHz #Sweep 1 s Occupied Bandwidth 13.474 MHz Total Power 32.2 dBm Transmit Freq Error 14.971 kHz x dB Bandwidth 14.83 MHz OBW Power 99.00 % x dB -26.00 dB	Band4-15MHz-16QAM-20325-75RB#0-PASS Center Freq 1.747500000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Center Freq 1.748 GHz #Res BW 330 kHz #VBW 1 MHz Span 30 MHz CF Step 3.000000 MHz #Sweep 1 s Occupied Bandwidth 13.470 MHz Total Power 31.4 dBm Transmit Freq Error 11.232 kHz x dB Bandwidth 14.80 MHz OBW Power 99.00 % x dB -26.00 dB
Band4-20MHz-QPSK-20050-100RB#0-PASS Center Freq 1.720000000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Center Freq 1.72 GHz #Res BW 430 kHz #VBW 1.5 MHz Span 40 MHz CF Step 4.000000 MHz #Sweep 1 s Occupied Bandwidth 17.952 MHz Total Power 32.3 dBm Transmit Freq Error 37.876 kHz x dB Bandwidth 19.71 MHz OBW Power 99.00 % x dB -26.00 dB	Band4-20MHz-16QAM-20050-100RB#0-PASS Center Freq 1.720000000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Center Freq 1.72 GHz #Res BW 430 kHz #VBW 1.5 MHz Span 40 MHz CF Step 4.000000 MHz #Sweep 1 s Occupied Bandwidth 17.941 MHz Total Power 31.5 dBm Transmit Freq Error 13.688 kHz x dB Bandwidth 19.59 MHz OBW Power 99.00 % x dB -26.00 dB



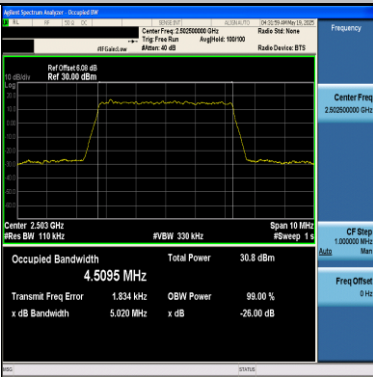
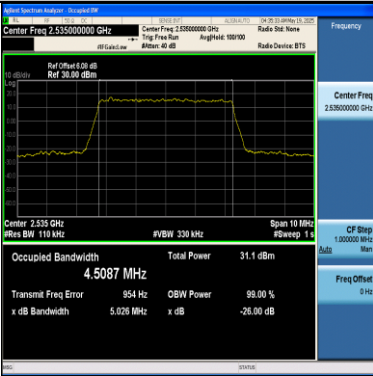
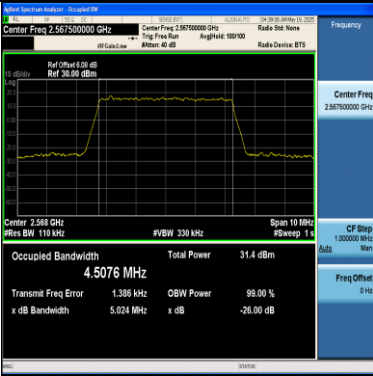
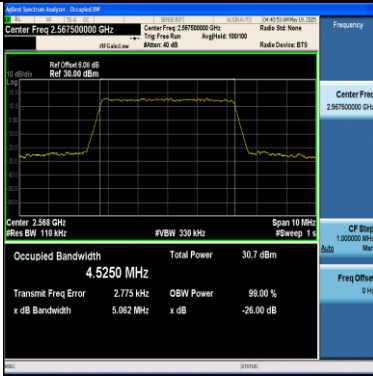
LTE Band 5 Test Graphs

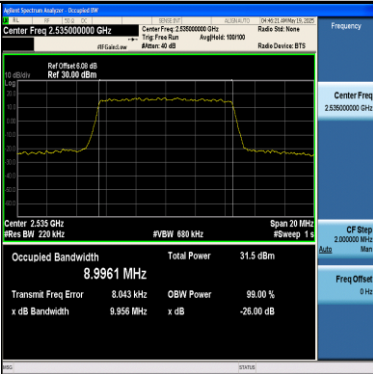
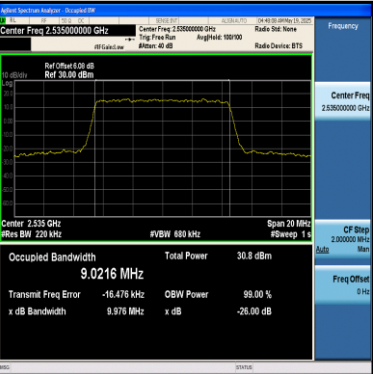
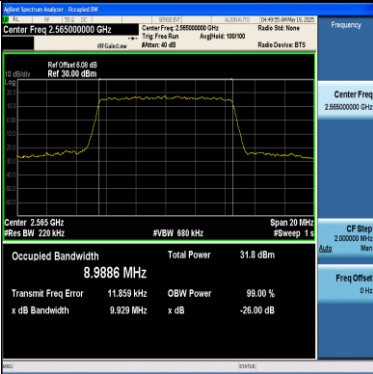
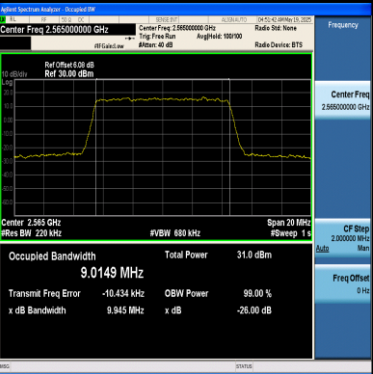
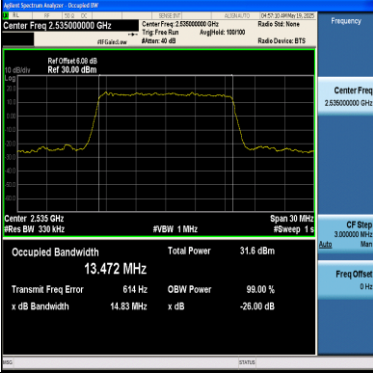
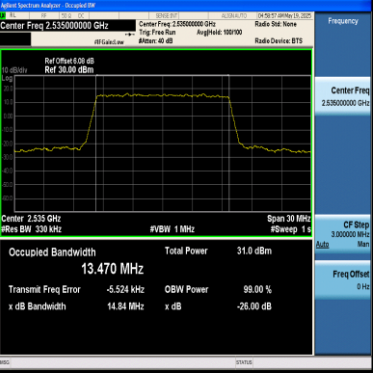
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Band5-1.4MHz-QPSK-20525-6RB#0-PASS		Band5-1.4MHz-16QAM-20525-6RB#0-PASS	
			
Band5-1.4MHz-QPSK-20643-6RB#0-PASS		Band5-1.4MHz-16QAM-20643-6RB#0-PASS	
			
Band5-3MHz-QPSK-20415-15RB#0-PASS		Band5-3MHz-16QAM-20415-15RB#0-PASS	
			

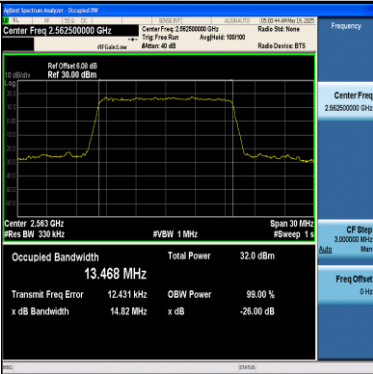
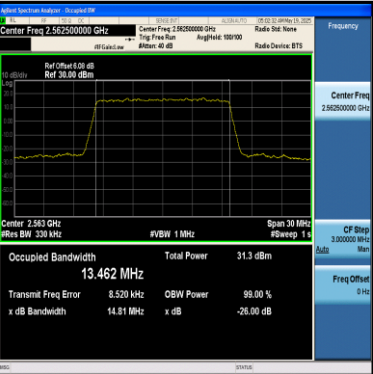
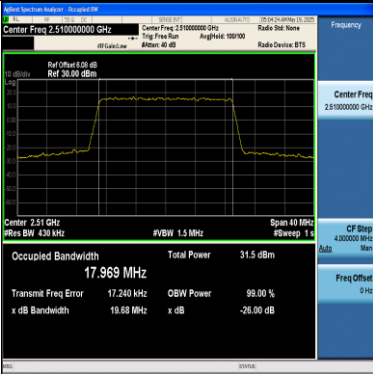
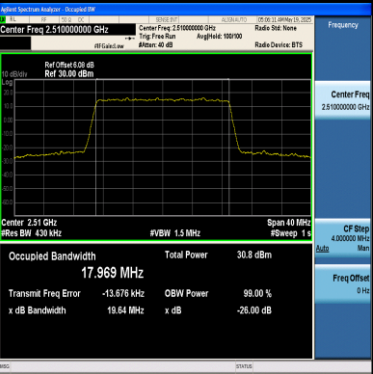
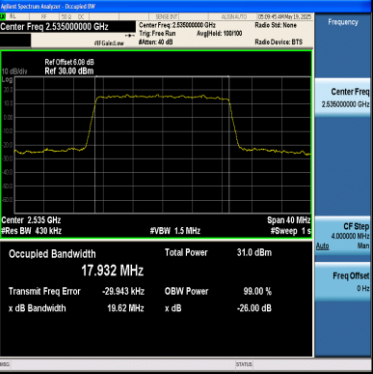
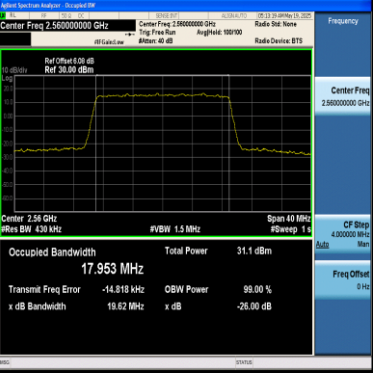
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 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 62 kHz Span 3 MHz VBW 200 kHz CF Step 600.000 MHz Occupied Bandwidth 2.7133 MHz Total Power 31.6 dBm Transmit Freq Error 4.923 kHz OSW Power 99.00 % x dB Bandwidth 3.010 MHz x dB -26.00 dB	 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 62 kHz Span 3 MHz VBW 200 kHz CF Step 600.000 MHz Occupied Bandwidth 2.6958 MHz Total Power 31.3 dBm Transmit Freq Error 470 Hz OSW Power 99.00 % x dB Bandwidth 2.990 MHz x dB -26.00 dB
Band5-3MHz-QPSK-20635-15RB#0-PASS	Band5-3MHz-16QAM-20635-15RB#0-PASS
 Center Freq 847.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 847.5 MHz Ref BW 62 kHz Span 3 MHz VBW 200 kHz CF Step 600.000 MHz Occupied Bandwidth 2.7136 MHz Total Power 31.9 dBm Transmit Freq Error 3.022 kHz OSW Power 99.00 % x dB Bandwidth 3.017 MHz x dB -26.00 dB	 Center Freq 847.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 847.5 MHz Ref BW 62 kHz Span 3 MHz VBW 200 kHz CF Step 600.000 MHz Occupied Bandwidth 2.6958 MHz Total Power 31.4 dBm Transmit Freq Error -2.536 kHz OSW Power 99.00 % x dB Bandwidth 2.997 MHz x dB -26.00 dB
Band5-5MHz-QPSK-20425-25RB#0-PASS	Band5-5MHz-16QAM-20425-25RB#0-PASS
 Center Freq 826.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 826.5 MHz Ref BW 110 kHz Span 5 MHz VBW 330 kHz CF Step 1.000000 MHz Occupied Bandwidth 4.5104 MHz Total Power 31.8 dBm Transmit Freq Error 2.529 kHz OSW Power 99.00 % x dB Bandwidth 5.021 MHz x dB -26.00 dB	 Center Freq 826.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 826.5 MHz Ref BW 110 kHz Span 5 MHz VBW 330 kHz CF Step 1.000000 MHz Occupied Bandwidth 4.5262 MHz Total Power 31.2 dBm Transmit Freq Error 5.323 kHz OSW Power 99.00 % x dB Bandwidth 5.069 MHz x dB -26.00 dB
Band5-5MHz-QPSK-20525-25RB#0-PASS	Band5-5MHz-16QAM-20525-25RB#0-PASS
 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 110 kHz Span 5 MHz VBW 330 kHz CF Step 1.000000 MHz Occupied Bandwidth 4.5113 MHz Total Power 31.8 dBm Transmit Freq Error 3.318 kHz OSW Power 99.00 % x dB Bandwidth 5.019 MHz x dB -26.00 dB	 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 110 kHz Span 5 MHz VBW 330 kHz CF Step 1.000000 MHz Occupied Bandwidth 4.5293 MHz Total Power 31.1 dBm Transmit Freq Error 4.885 kHz OSW Power 99.00 % x dB Bandwidth 5.072 MHz x dB -26.00 dB

Band5-5MHz-QPSK-20625-25RB#0-PASS  Center Freq 846.500000 MHz Span 10 MHz #Fires 110 kHz #VBW 330 kHz #Sweep 1 s CF Step 1.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 4.5116 MHz Total Power 32.0 dBm Transmit Freq Error -3.833 kHz OBW Power 99.00 % x dB Bandwidth 5.011 MHz x dB -26.00 dB	Band5-5MHz-16QAM-20625-25RB#0-PASS  Center Freq 846.500000 MHz Span 10 MHz #Fires 110 kHz #VBW 330 kHz #Sweep 1 s CF Step 1.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 4.5284 MHz Total Power 31.2 dBm Transmit Freq Error -3.802 kHz OBW Power 99.00 % x dB Bandwidth 5.070 MHz x dB -26.00 dB
Band5-10MHz-QPSK-20450-50RB#0-PASS  Center Freq 829.000000 MHz Span 20 MHz #Fires 220 kHz #VBW 680 kHz #Sweep 1 s CF Step 2.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 8.9887 MHz Total Power 32.3 dBm Transmit Freq Error 12.096 kHz OBW Power 99.00 % x dB Bandwidth 9.965 MHz x dB -26.00 dB	Band5-10MHz-16QAM-20450-50RB#0-PASS  Center Freq 829.000000 MHz Span 20 MHz #Fires 220 kHz #VBW 680 kHz #Sweep 1 s CF Step 2.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 9.0229 MHz Total Power 31.6 dBm Transmit Freq Error -10.048 kHz OBW Power 99.00 % x dB Bandwidth 9.948 MHz x dB -26.00 dB
Band5-10MHz-QPSK-20525-50RB#0-PASS  Center Freq 836.500000 MHz Span 20 MHz #Fires 220 kHz #VBW 680 kHz #Sweep 1 s CF Step 2.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 9.0026 MHz Total Power 32.3 dBm Transmit Freq Error 11.555 kHz OBW Power 99.00 % x dB Bandwidth 9.965 MHz x dB -26.00 dB	Band5-10MHz-16QAM-20525-50RB#0-PASS  Center Freq 836.500000 MHz Span 20 MHz #Fires 220 kHz #VBW 680 kHz #Sweep 1 s CF Step 2.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 9.0262 MHz Total Power 31.6 dBm Transmit Freq Error -11.235 kHz OBW Power 99.00 % x dB Bandwidth 9.948 MHz x dB -26.00 dB
Band5-10MHz-QPSK-20600-50RB#0-PASS  Center Freq 844.000000 MHz Span 20 MHz #Fires 220 kHz #VBW 680 kHz #Sweep 1 s CF Step 2.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 8.9864 MHz Total Power 32.4 dBm Transmit Freq Error -3.309 kHz OBW Power 99.00 % x dB Bandwidth 9.944 MHz x dB -26.00 dB	Band5-10MHz-16QAM-20600-50RB#0-PASS  Center Freq 844.000000 MHz Span 20 MHz #Fires 220 kHz #VBW 680 kHz #Sweep 1 s CF Step 2.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 9.0100 MHz Total Power 31.7 dBm Transmit Freq Error -28.587 kHz OBW Power 99.00 % x dB Bandwidth 9.944 MHz x dB -26.00 dB

LTE Band 7 Test Graph

Band7-5MHz-QPSK-20775-25RB#0-PASS		Band7-5MHz-16QAM-20775-25RB#0-PASS	
			
Band7-5MHz-QPSK-21100-25RB#0-PASS		Band7-5MHz-16QAM-21100-25RB#0-PASS	
			
Band7-5MHz-QPSK-21425-25RB#0-PASS		Band7-5MHz-16QAM-21425-25RB#0-PASS	
			
Band7-10MHz-QPSK-20800-50RB#0-PASS		Band7-10MHz-16QAM-20800-50RB#0-PASS	
			

Band7-10MHz-QPSK-21100-50RB#0-PASS	Band7-10MHz-16QAM-21100-50RB#0-PASS
 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.535000000 GHz Span: 20 MHz Res BW: 220 kHz #VBW: 600 kHz #Sweep: 1 s Total Power: 31.5 dBm Occupied Bandwidth: 8.9961 MHz Transmit Freq Error: 8.043 kHz x dB Bandwidth: 9.956 MHz OBW Power: 99.00 % x dB: -26.00 dB	 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.535000000 GHz Span: 20 MHz Res BW: 220 kHz #VBW: 600 kHz #Sweep: 1 s Total Power: 30.8 dBm Occupied Bandwidth: 9.0216 MHz Transmit Freq Error: -16.476 kHz x dB Bandwidth: 9.976 MHz OBW Power: 99.00 % x dB: -26.00 dB
Band7-10MHz-QPSK-21400-50RB#0-PASS	Band7-10MHz-16QAM-21400-50RB#0-PASS
 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.565000000 GHz Span: 20 MHz Res BW: 220 kHz #VBW: 600 kHz #Sweep: 1 s Total Power: 31.8 dBm Occupied Bandwidth: 8.9886 MHz Transmit Freq Error: 11.859 kHz x dB Bandwidth: 9.929 MHz OBW Power: 99.00 % x dB: -26.00 dB	 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.565000000 GHz Span: 20 MHz Res BW: 220 kHz #VBW: 600 kHz #Sweep: 1 s Total Power: 31.0 dBm Occupied Bandwidth: 9.0149 MHz Transmit Freq Error: -10.434 kHz x dB Bandwidth: 9.945 MHz OBW Power: 99.00 % x dB: -26.00 dB
Band7-15MHz-QPSK-20825-75RB#0-PASS	Band7-15MHz-16QAM-20825-75RB#0-PASS
 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.568000000 GHz Span: 30 MHz Res BW: 330 kHz #VBW: 1 MHz #Sweep: 1 s Total Power: 31.4 dBm Occupied Bandwidth: 13.493 MHz Transmit Freq Error: 5.538 kHz x dB Bandwidth: 14.84 MHz OBW Power: 99.00 % x dB: -26.00 dB	 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.568000000 GHz Span: 30 MHz Res BW: 330 kHz #VBW: 1 MHz #Sweep: 1 s Total Power: 30.9 dBm Occupied Bandwidth: 13.477 MHz Transmit Freq Error: 369 Hz x dB Bandwidth: 14.83 MHz OBW Power: 99.00 % x dB: -26.00 dB
Band7-15MHz-QPSK-21100-75RB#0-PASS	Band7-15MHz-16QAM-21100-75RB#0-PASS
 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.535000000 GHz Span: 30 MHz Res BW: 330 kHz #VBW: 1 MHz #Sweep: 1 s Total Power: 31.6 dBm Occupied Bandwidth: 13.472 MHz Transmit Freq Error: 614 Hz x dB Bandwidth: 14.83 MHz OBW Power: 99.00 % x dB: -26.00 dB	 Adjust Spectrum Analyzer - Occupied BW Center Freq: 2.535000000 GHz Span: 30 MHz Res BW: 330 kHz #VBW: 1 MHz #Sweep: 1 s Total Power: 31.0 dBm Occupied Bandwidth: 13.470 MHz Transmit Freq Error: -5.524 kHz x dB Bandwidth: 14.84 MHz OBW Power: 99.00 % x dB: -26.00 dB

Band7-15MHz-QPSK-21375-75RB#0-PASS	Band7-15MHz-16QAM-21375-75RB#0-PASS
 Center Freq 2.562500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 13.468 MHz Total Power 32.0 dBm Transmit Freq Error 12.431 kHz OBW Power 99.00 % x dB Bandwidth 14.82 MHz x dB -26.00 dB	 Center Freq 2.562500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 13.462 MHz Total Power 31.3 dBm Transmit Freq Error 8.520 kHz OBW Power 99.00 % x dB Bandwidth 14.81 MHz x dB -26.00 dB
Band7-20MHz-QPSK-20850-100RB#0-PASS	Band7-20MHz-16QAM-20850-100RB#0-PASS
 Center Freq 2.510000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 17.969 MHz Total Power 31.5 dBm Transmit Freq Error 17.240 kHz OBW Power 99.00 % x dB Bandwidth 19.68 MHz x dB -26.00 dB	 Center Freq 2.510000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 17.969 MHz Total Power 30.8 dBm Transmit Freq Error -13.676 kHz OBW Power 99.00 % x dB Bandwidth 19.64 MHz x dB -26.00 dB
Band7-20MHz-QPSK-21100-100RB#0-PASS	Band7-20MHz-16QAM-21100-100RB#0-PASS
 Center Freq 2.535000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 17.937 MHz Total Power 31.6 dBm Transmit Freq Error -2.777 kHz OBW Power 99.00 % x dB Bandwidth 19.65 MHz x dB -26.00 dB	 Center Freq 2.535000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 17.932 MHz Total Power 31.0 dBm Transmit Freq Error -29.943 kHz OBW Power 99.00 % x dB Bandwidth 19.62 MHz x dB -26.00 dB
Band7-20MHz-QPSK-21350-100RB#0-PASS	Band7-20MHz-16QAM-21350-100RB#0-PASS
 Center Freq 2.560000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 17.948 MHz Total Power 31.9 dBm Transmit Freq Error 15.271 kHz OBW Power 99.00 % x dB Bandwidth 19.66 MHz x dB -26.00 dB	 Center Freq 2.560000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 17.953 MHz Total Power 31.1 dBm Transmit Freq Error -14.818 kHz OBW Power 99.00 % x dB Bandwidth 19.62 MHz x dB -26.00 dB