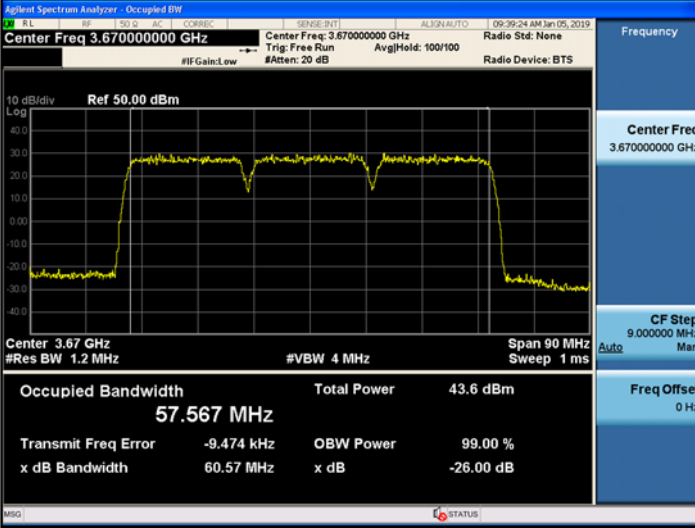
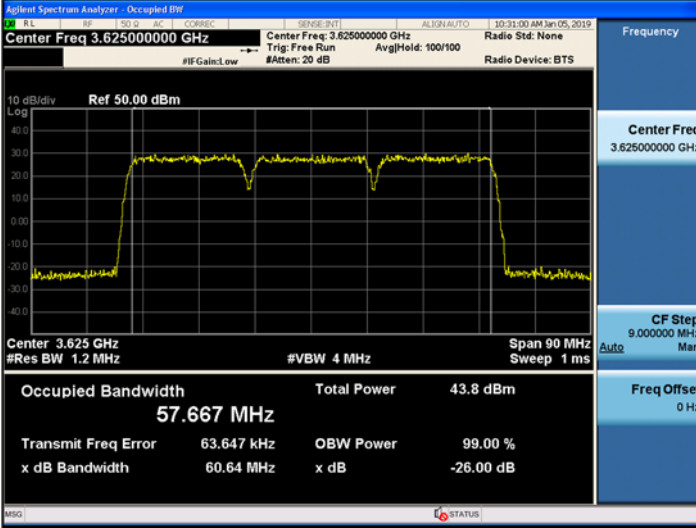
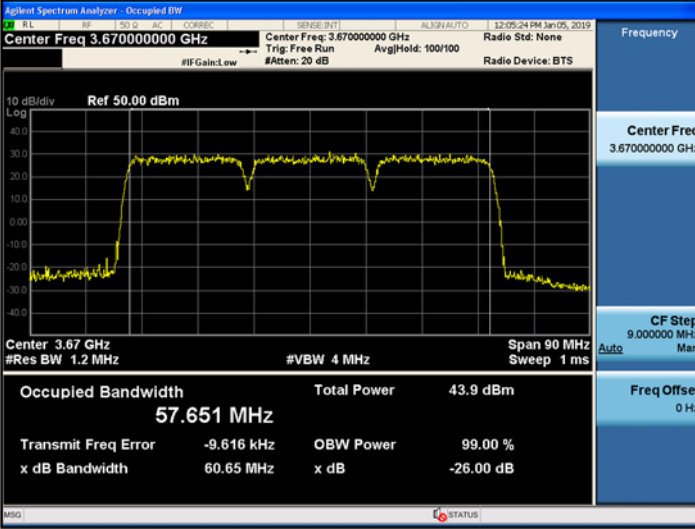
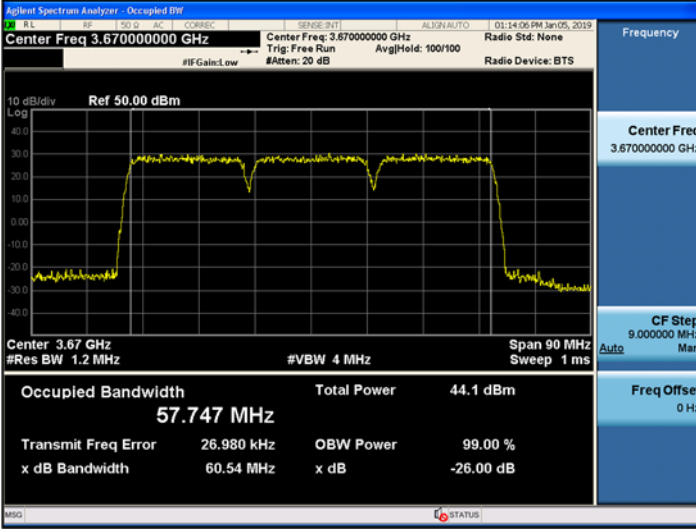
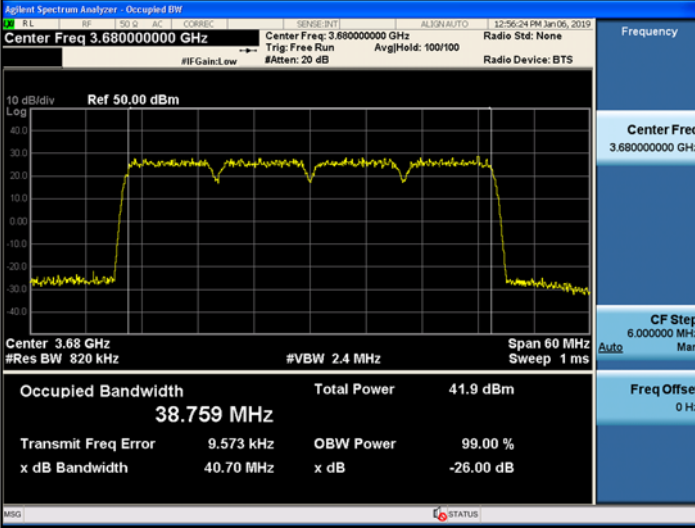
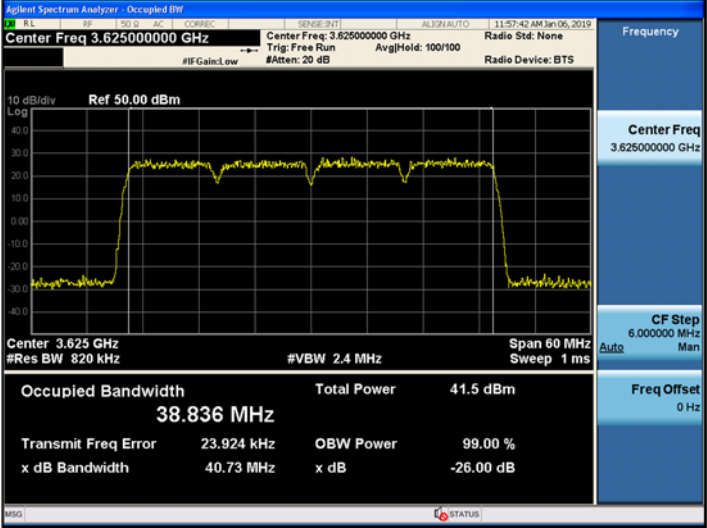
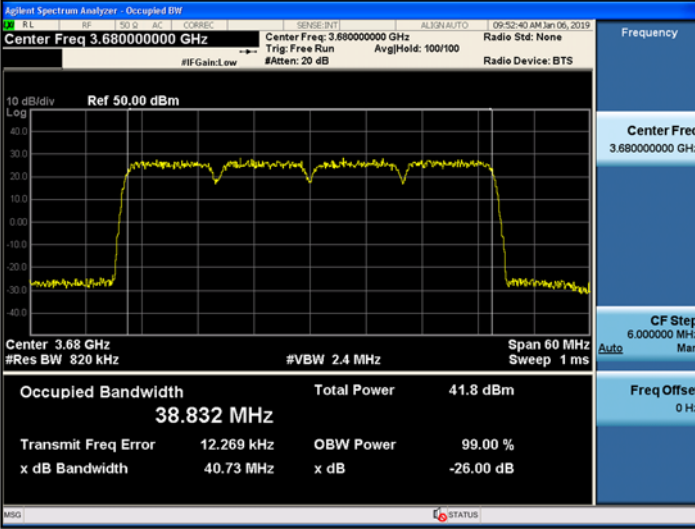
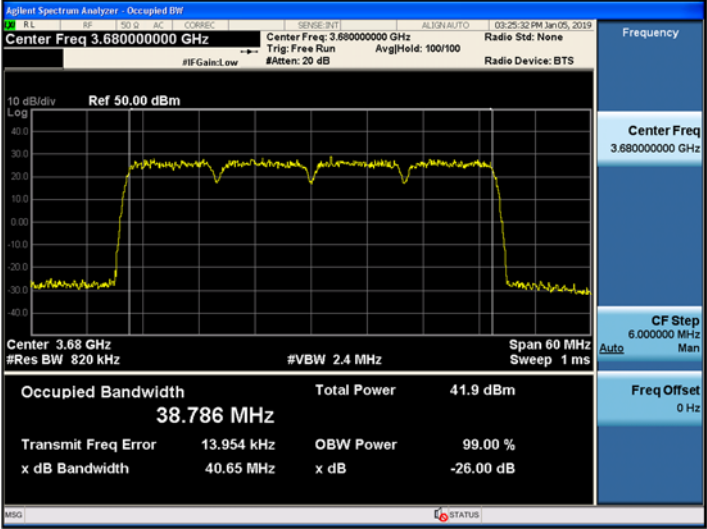


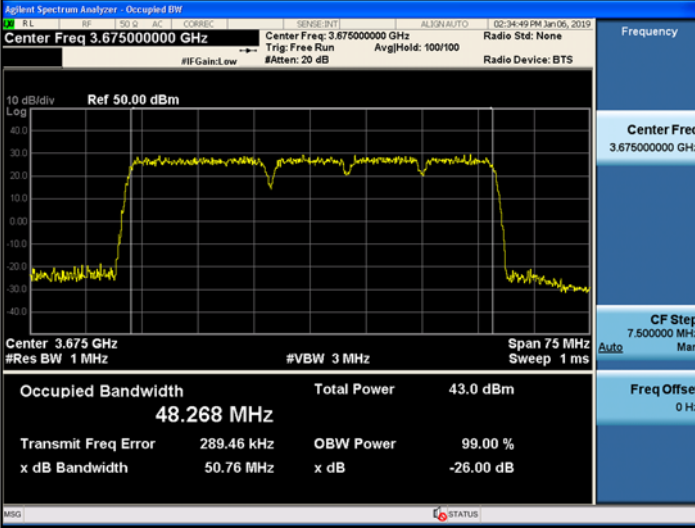
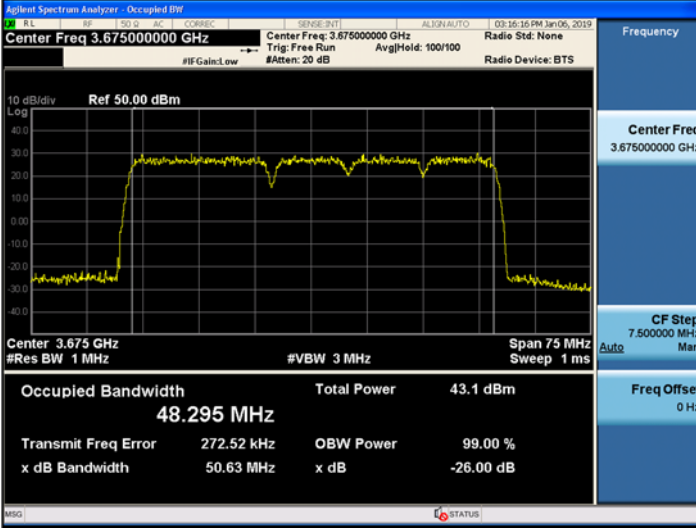
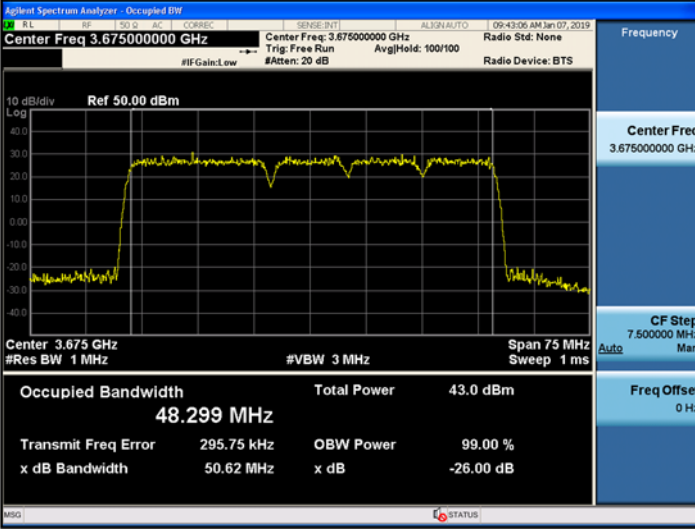
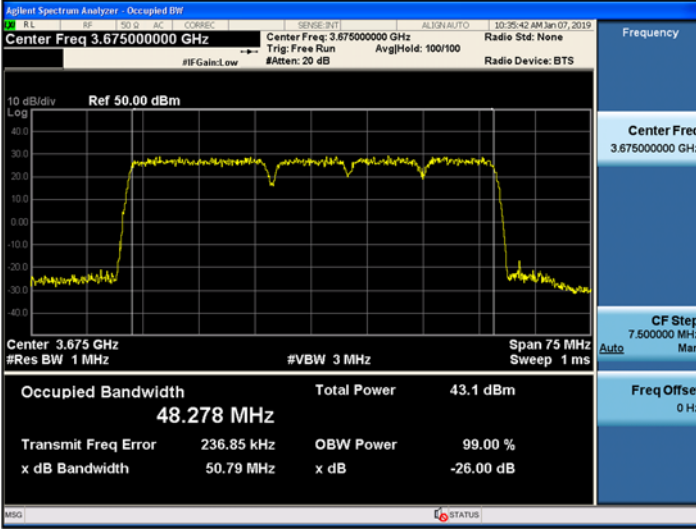
20 MHz Bandwidth + 20 MHz Bandwidth + 20 MHz Bandwidth / 3 Carriers

Port	0	Port	1
Modulation:	QPSK	Modulation:	256QAM
Channel:	High	Channel:	Middle
			
Port	2	Port	3
Modulation:	64QAM	Modulation:	256QAM
Channel:	High	Channel:	High
			

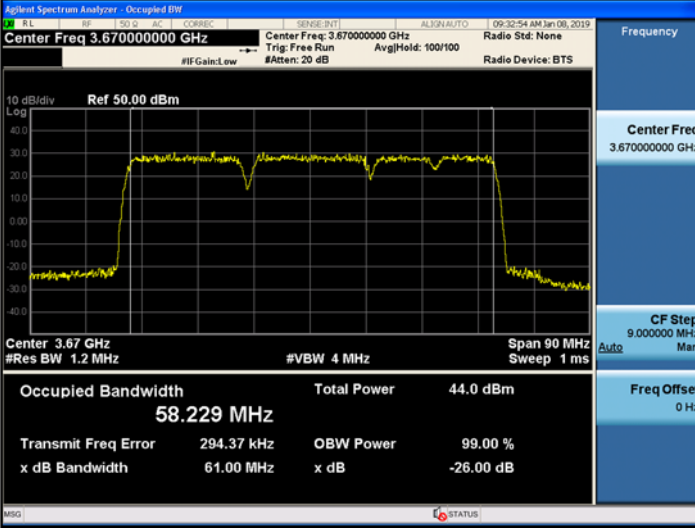
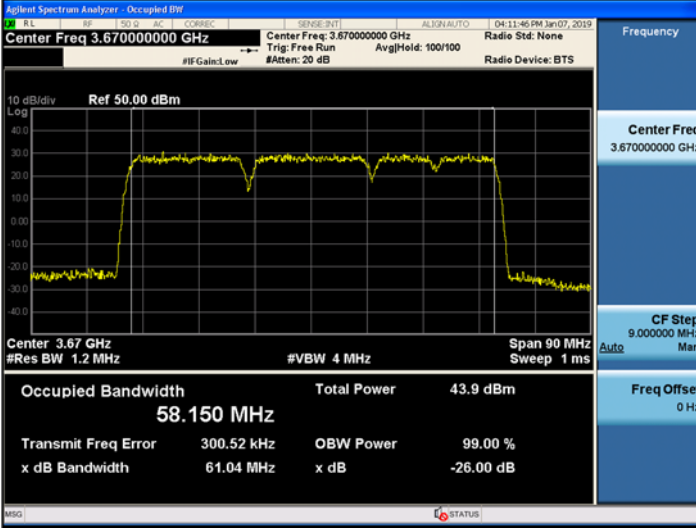
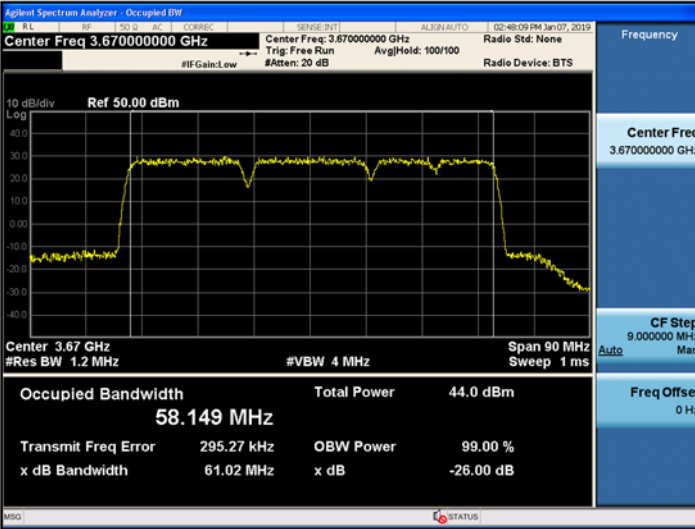
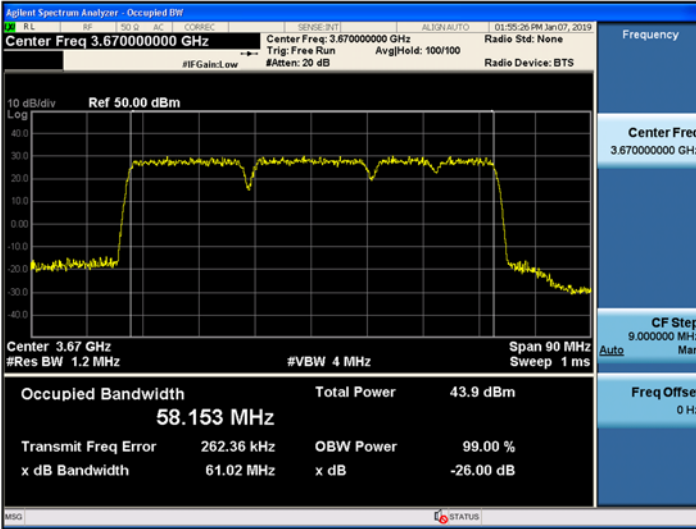
10 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth/ 4 Carriers

Port	0	Port	1
Modulation:	256QAM	Modulation:	256QAM
Channel:	High	Channel:	Middle
			
Port	2	Port	3
Modulation:	64QAM	Modulation:	QPSK
Channel:	High	Channel:	High
			

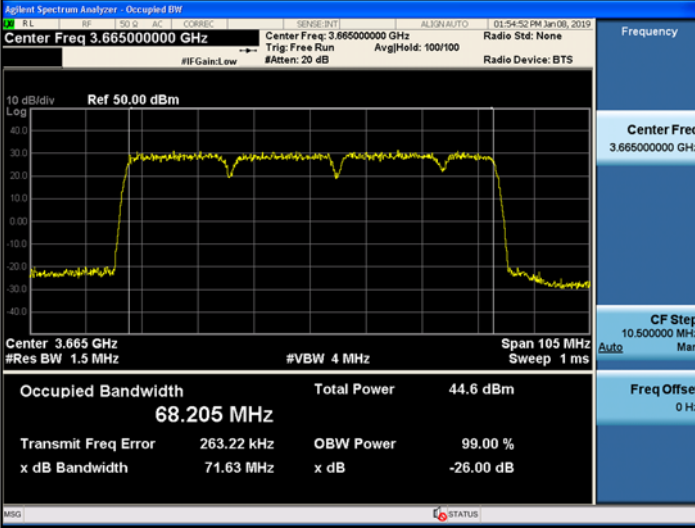
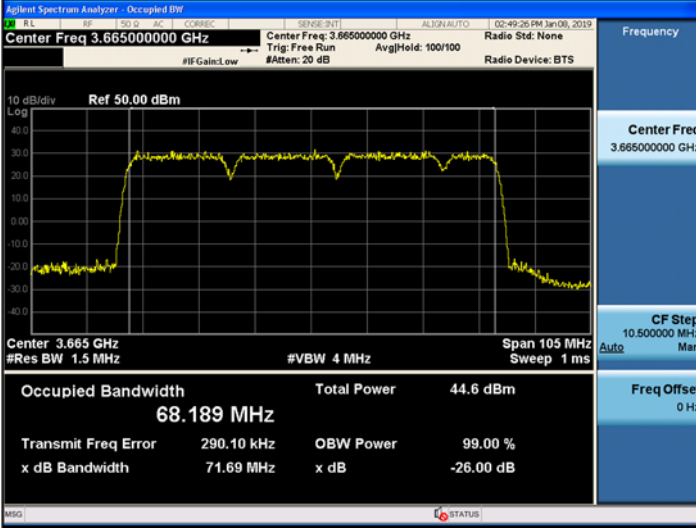
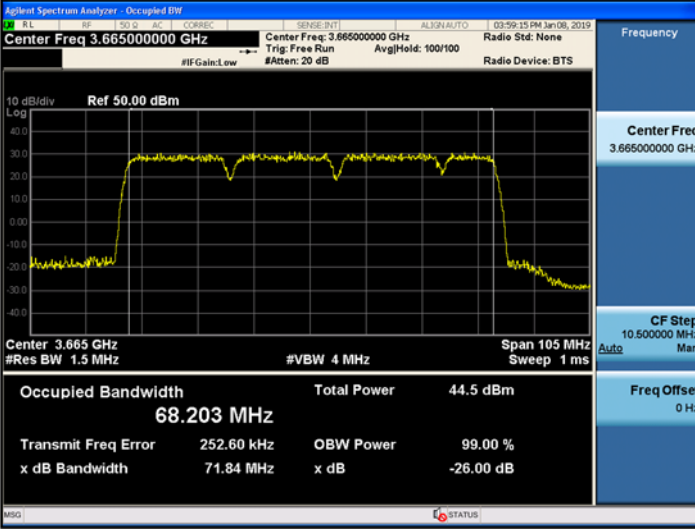
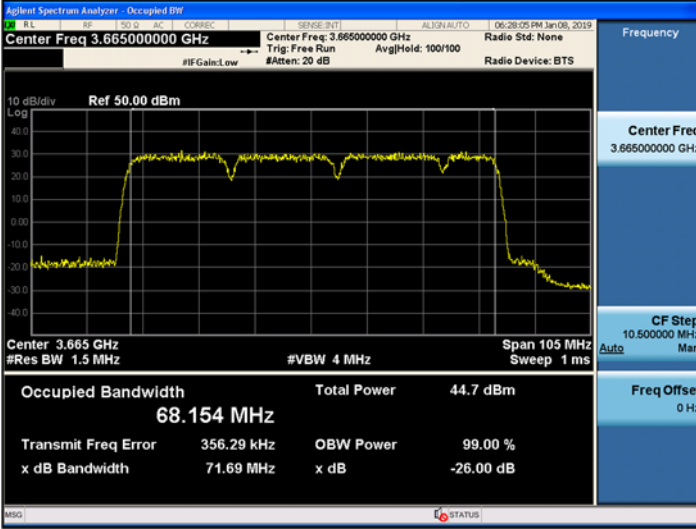
20 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth/ 4 Carriers

Port	0	Port	1
Modulation:	64QAM	Modulation:	QPSK
Channel:	High	Channel:	High
			
Port	2	Port	3
Modulation:	QPSK	Modulation:	64QAM
Channel:	High	Channel:	High
			

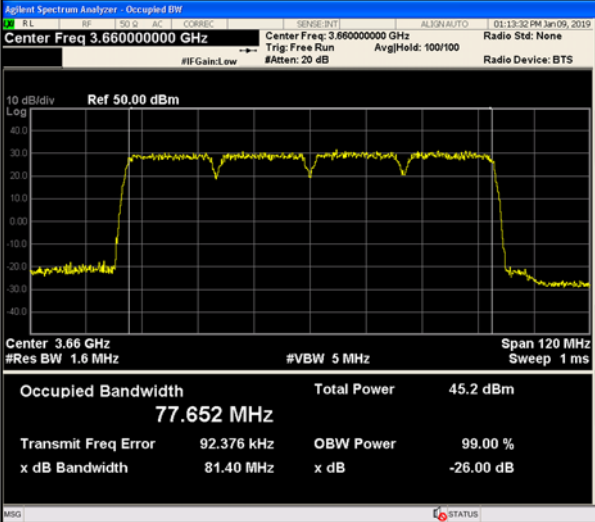
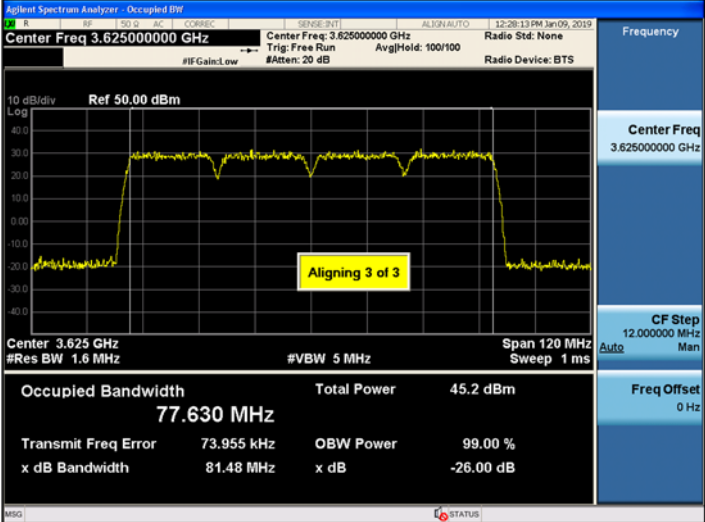
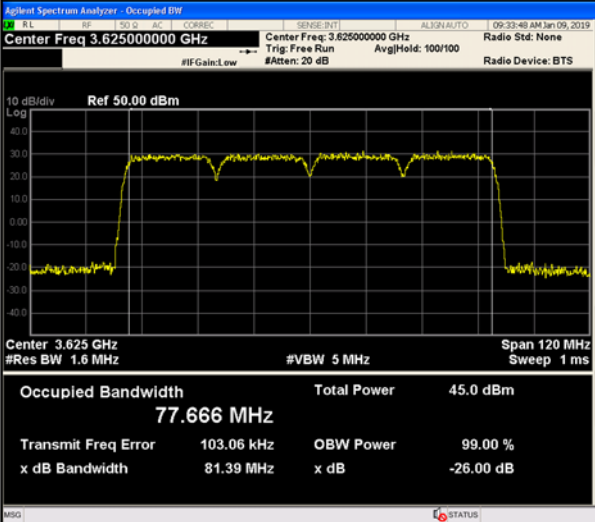
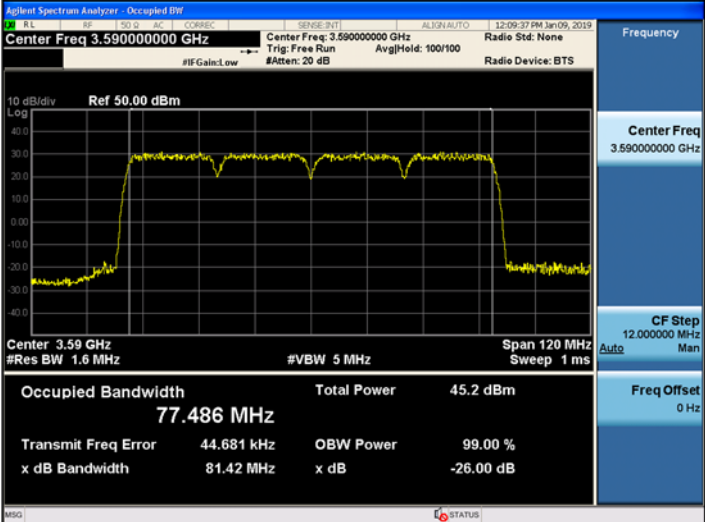
20 MHz Bandwidth + 20 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth/ 4 Carriers

Port	0	Port	1
Modulation:	QPSK	Modulation:	QPSK
Channel:	High	Channel:	High
			
Port	2	Port	3
Modulation:	256QAM	Modulation:	256QAM
Channel:	High	Channel:	High
			

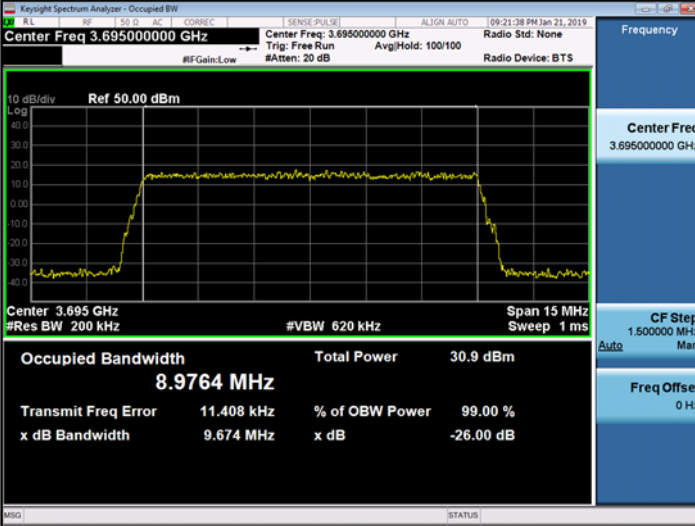
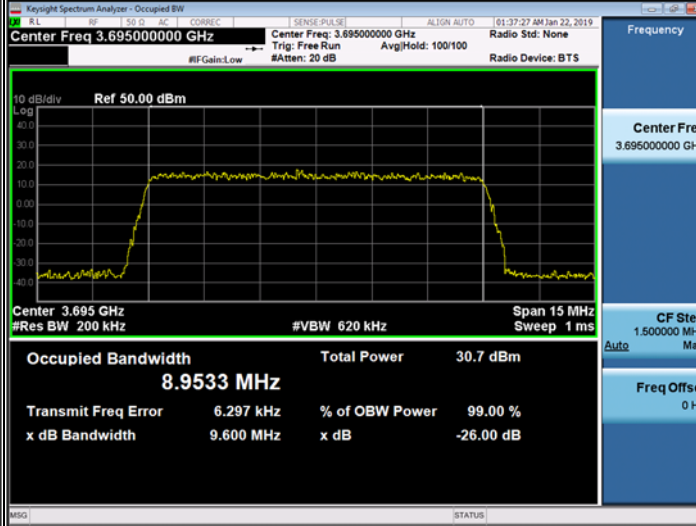
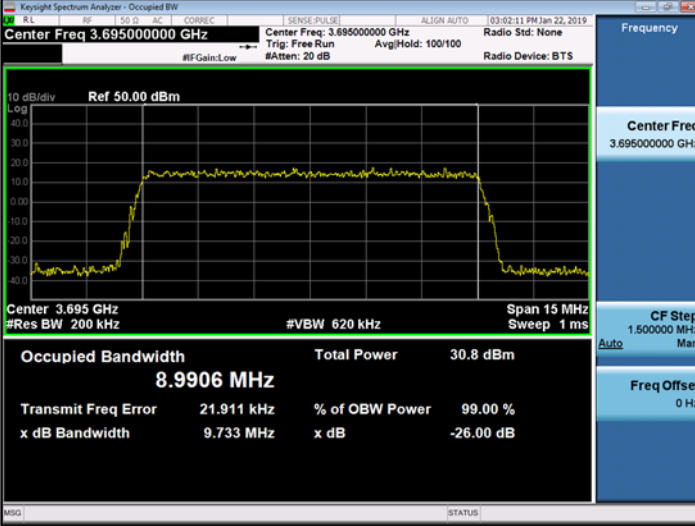
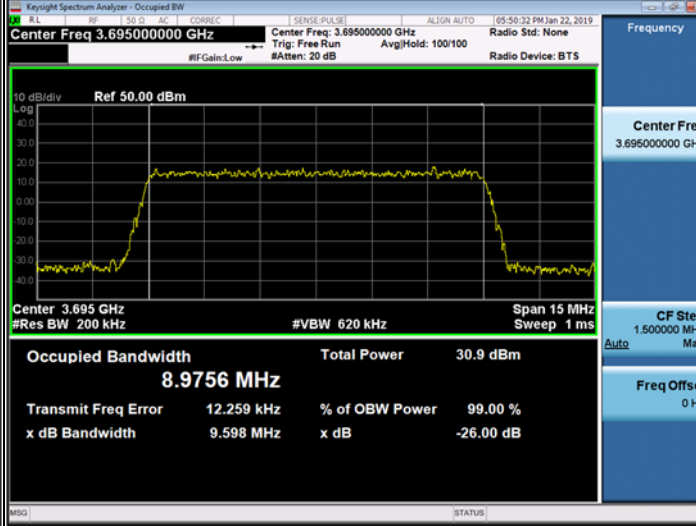
20 MHz Bandwidth + 20 MHz Bandwidth + 20 MHz Bandwidth + 10 MHz Bandwidth/ 4 Carriers

Port	0	Port	1
Modulation:	256QAM	Modulation:	256QAM
Channel:	High	Channel:	High
			
Port	2	Port	3
Modulation:	256QAM	Modulation:	64QAM
Channel:	High	Channel:	High
			

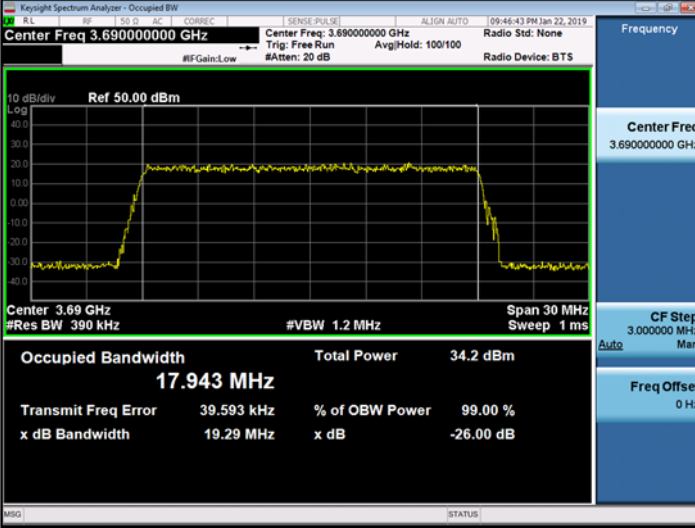
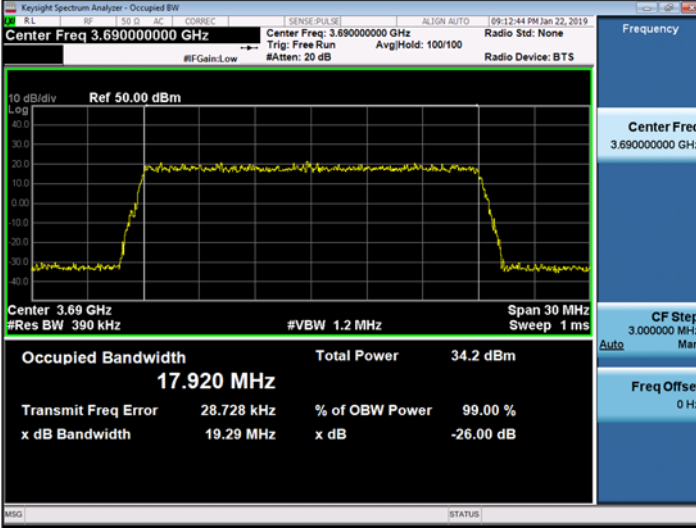
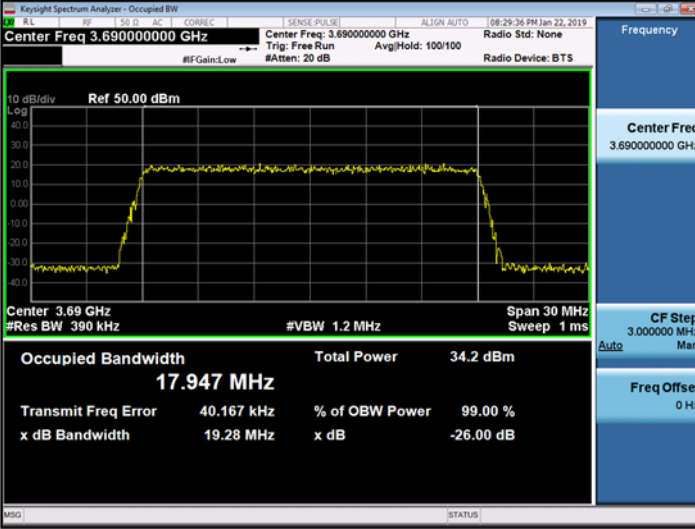
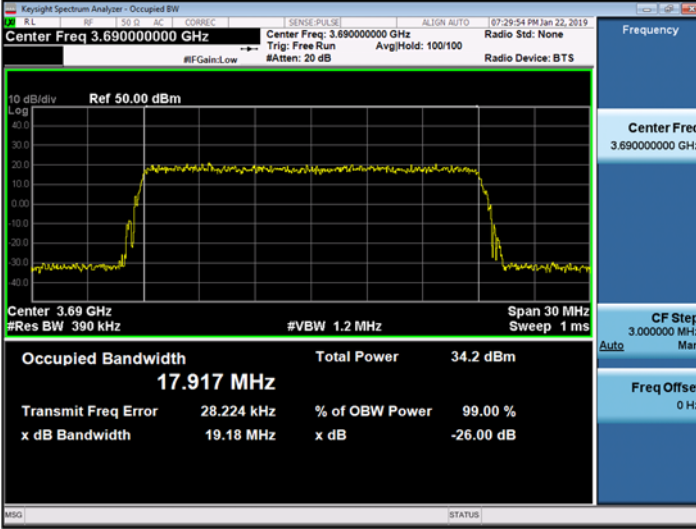
20 MHz Bandwidth + 20 MHz Bandwidth + 20 MHz Bandwidth + 20 MHz Bandwidth/ 4 Carriers

Port	0	Port	1
Modulation:	256QAM	Modulation:	64QAM
Channel:	High	Channel:	Middle
			
Port	2	Port	3
Modulation:	256QAM	Modulation:	64QAM
Channel:	Middle	Channel:	Low
			

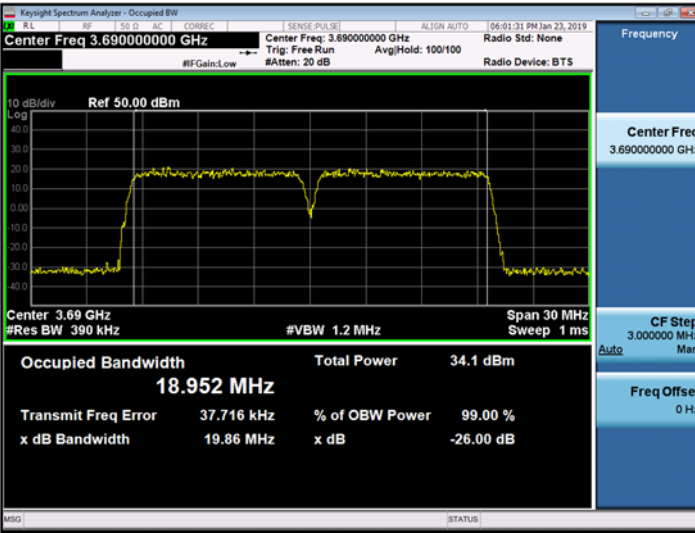
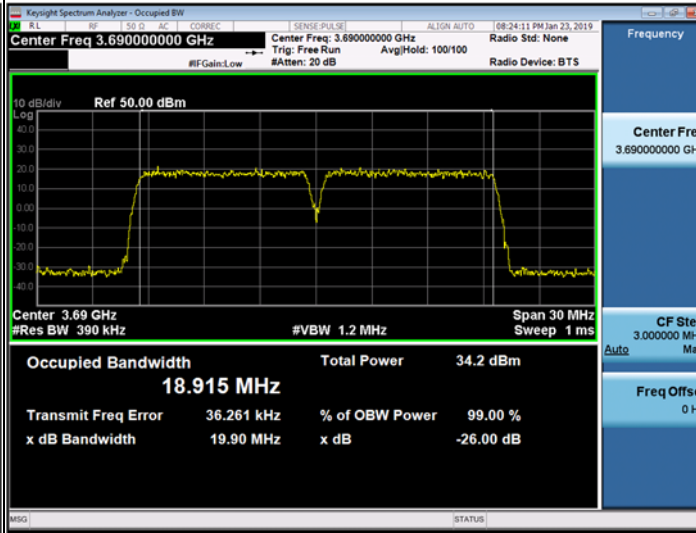
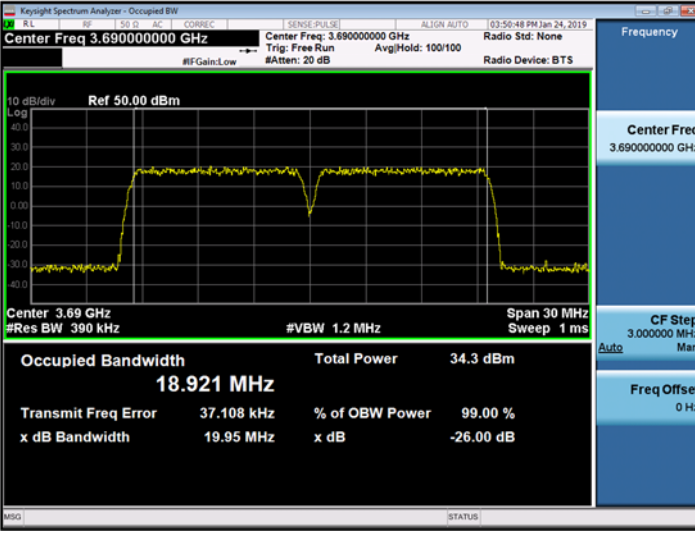
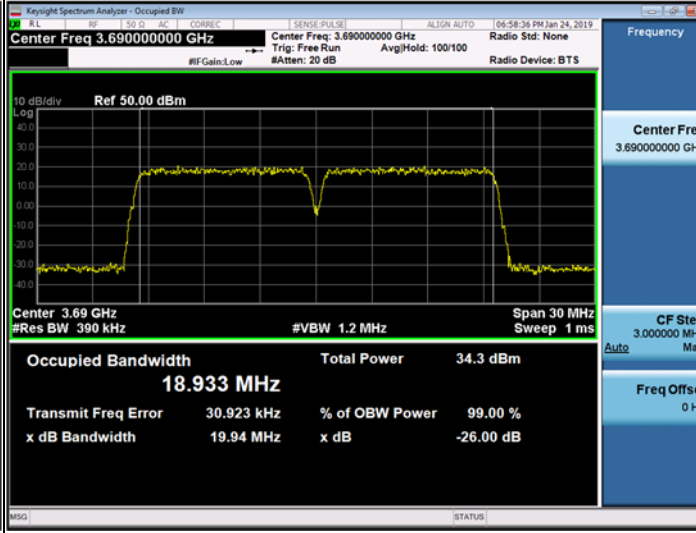
Plots of Occupied Bandwidth_Max Power for Clip-on Ant 10 MHz Bandwidth / 1 Carriers

Port	0	Port	1
Modulation:	QPSK	Modulation:	QPSK
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.695000000 GHz #Res BW 200 kHz #VBW 620 kHz Span 15 MHz Sweep 1 ms CF Step 1.500000 MHz Freq Offset 0 Hz Occupied Bandwidth 8.9764 MHz Total Power 30.9 dBm Transmit Freq Error 11.408 kHz % of OBW Power 99.00 % x dB Bandwidth 9.674 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.695000000 GHz #Res BW 200 kHz #VBW 620 kHz Span 15 MHz Sweep 1 ms CF Step 1.500000 MHz Freq Offset 0 Hz Occupied Bandwidth 8.9533 MHz Total Power 30.7 dBm Transmit Freq Error 6.297 kHz % of OBW Power 99.00 % x dB Bandwidth 9.600 MHz x dB -26.00 dB	
Port	2	Port	3
Modulation:	64QAM	Modulation:	64QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.695000000 GHz #Res BW 200 kHz #VBW 620 kHz Span 15 MHz Sweep 1 ms CF Step 1.500000 MHz Freq Offset 0 Hz Occupied Bandwidth 8.9906 MHz Total Power 30.8 dBm Transmit Freq Error 21.911 kHz % of OBW Power 99.00 % x dB Bandwidth 9.733 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.695000000 GHz #Res BW 200 kHz #VBW 620 kHz Span 15 MHz Sweep 1 ms CF Step 1.500000 MHz Freq Offset 0 Hz Occupied Bandwidth 8.9756 MHz Total Power 30.9 dBm Transmit Freq Error 12.259 kHz % of OBW Power 99.00 % x dB Bandwidth 9.598 MHz x dB -26.00 dB	

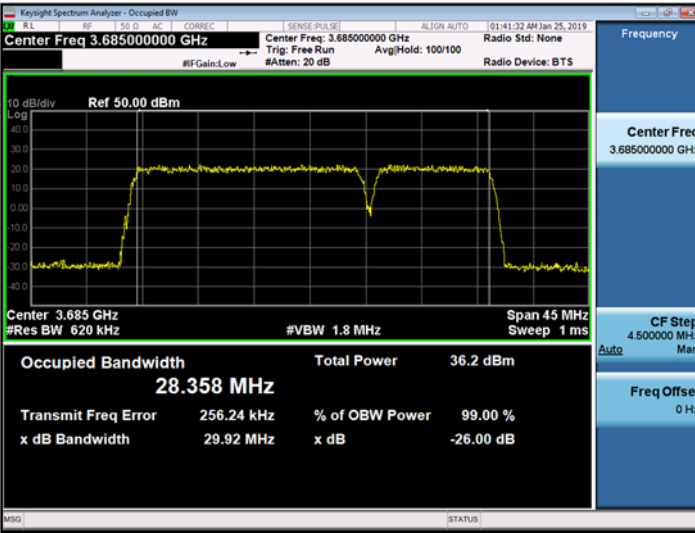
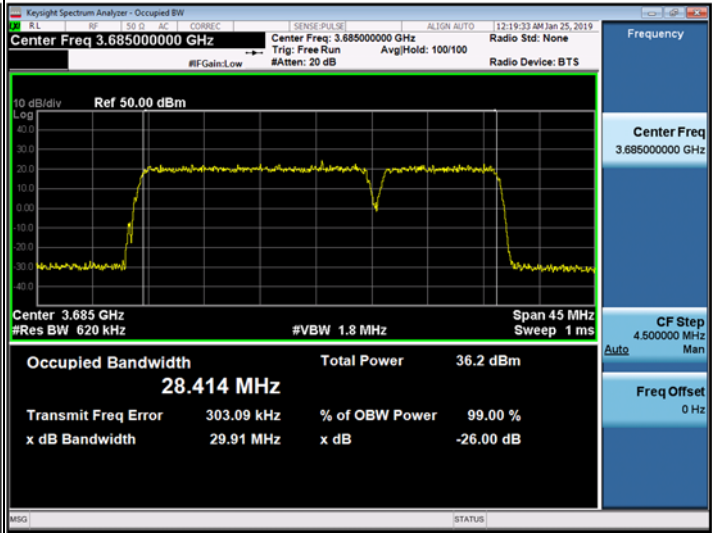
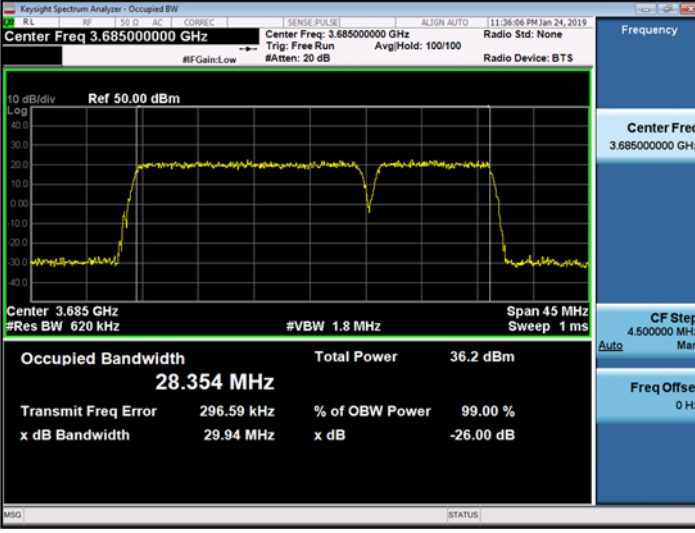
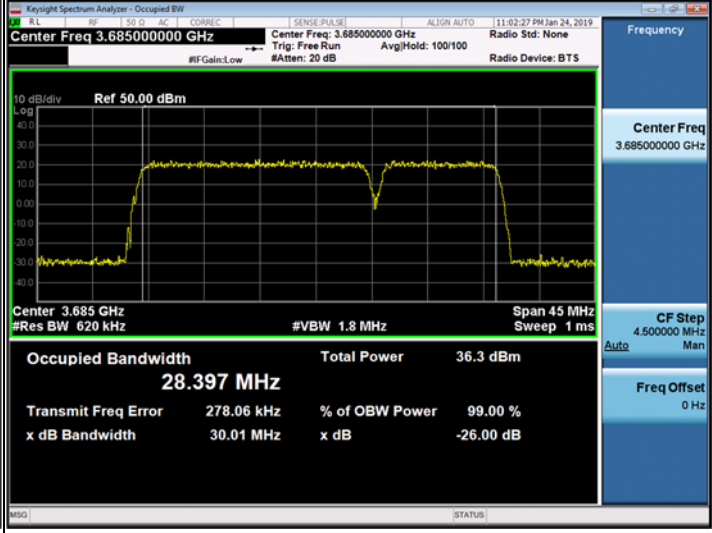
20 MHz Bandwidth / 1 Carriers

Port	0	Port	1
Modulation:	256QAM	Modulation:	QPSK
Channel:	High	Channel:	High
			
Port	2	Port	3
Modulation:	256QAM	Modulation:	16QAM
Channel:	High	Channel:	High
			

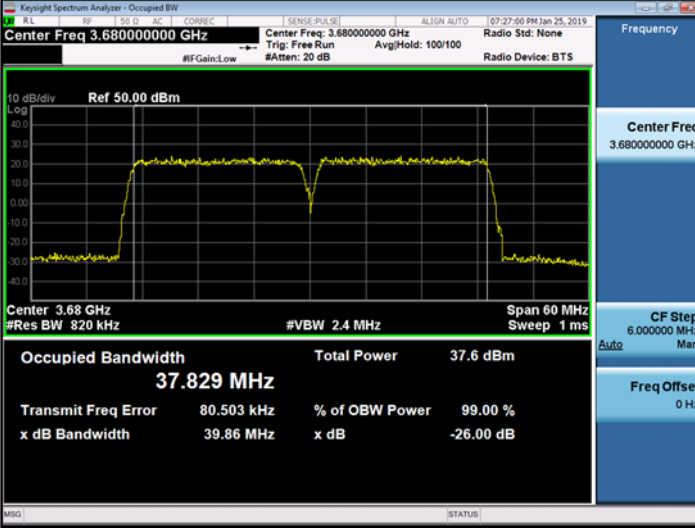
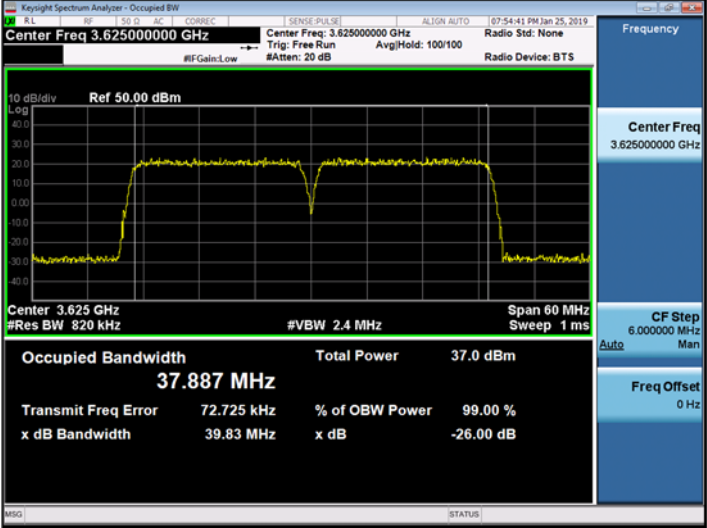
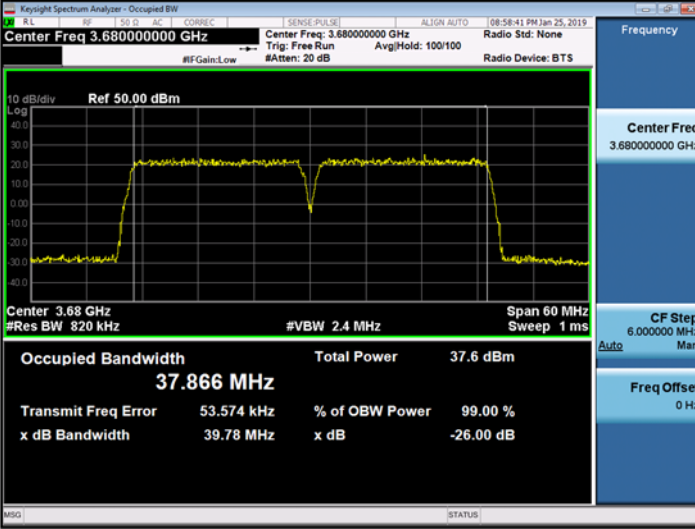
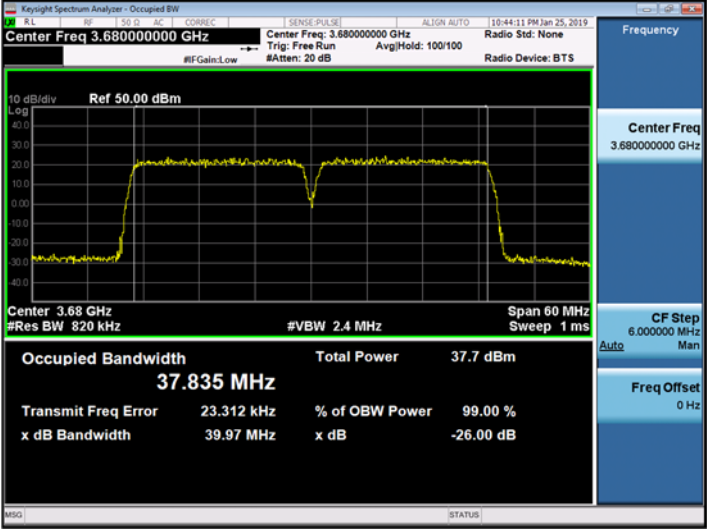
10 MHz Bandwidth + 10 MHz Bandwidth / 2 Carriers

Port	0	Port	1
Modulation:	QPSK	Modulation:	QPSK
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.690000000 GHz Center Freq: 3.690000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref 50.00 dBm Center Freq 3.69 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 30 MHz Sweep 1 ms CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 18.952 MHz Total Power 34.1 dBm Transmit Freq Error 37.716 kHz % of OBW Power 99.00 % x dB Bandwidth 19.86 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.690000000 GHz Center Freq: 3.690000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref 50.00 dBm Center Freq 3.69 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 30 MHz Sweep 1 ms CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 18.915 MHz Total Power 34.2 dBm Transmit Freq Error 36.261 kHz % of OBW Power 99.00 % x dB Bandwidth 19.90 MHz x dB -26.00 dB	
Port	2	Port	3
Modulation:	256QAM	Modulation:	64QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.690000000 GHz Center Freq: 3.690000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref 50.00 dBm Center Freq 3.69 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 30 MHz Sweep 1 ms CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 18.921 MHz Total Power 34.3 dBm Transmit Freq Error 37.108 kHz % of OBW Power 99.00 % x dB Bandwidth 19.95 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.690000000 GHz Center Freq: 3.690000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref 50.00 dBm Center Freq 3.69 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 30 MHz Sweep 1 ms CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 18.933 MHz Total Power 34.3 dBm Transmit Freq Error 30.923 kHz % of OBW Power 99.00 % x dB Bandwidth 19.94 MHz x dB -26.00 dB	

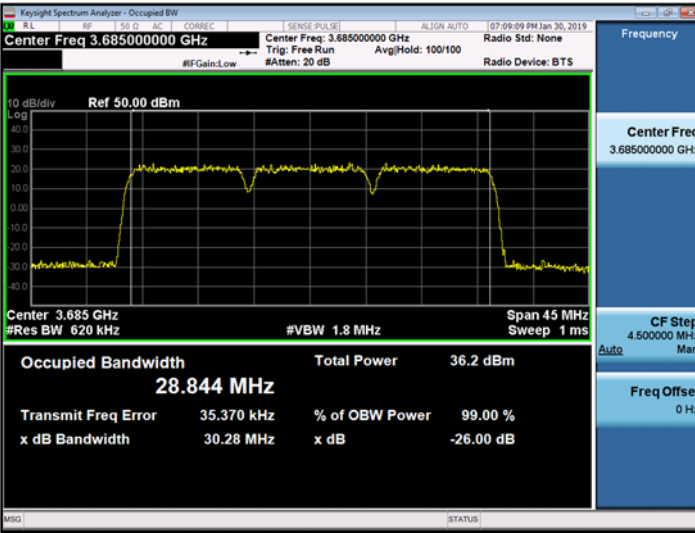
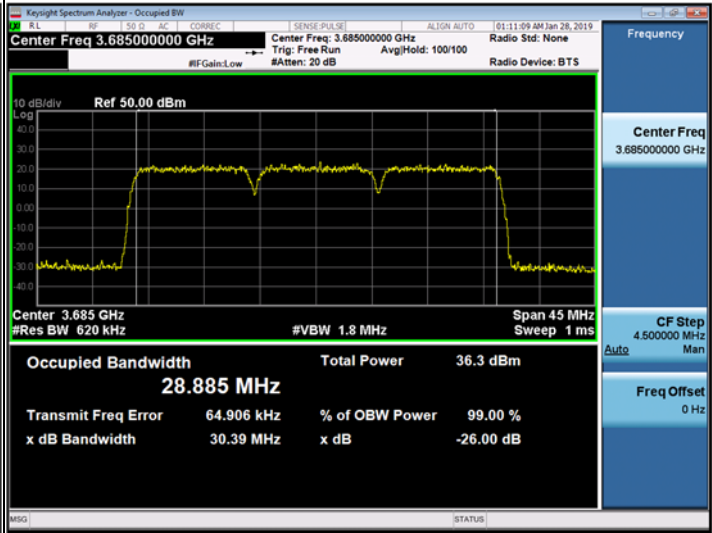
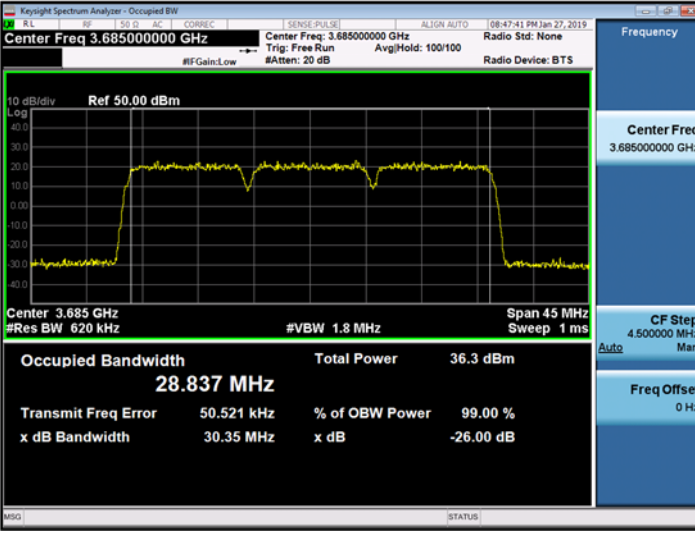
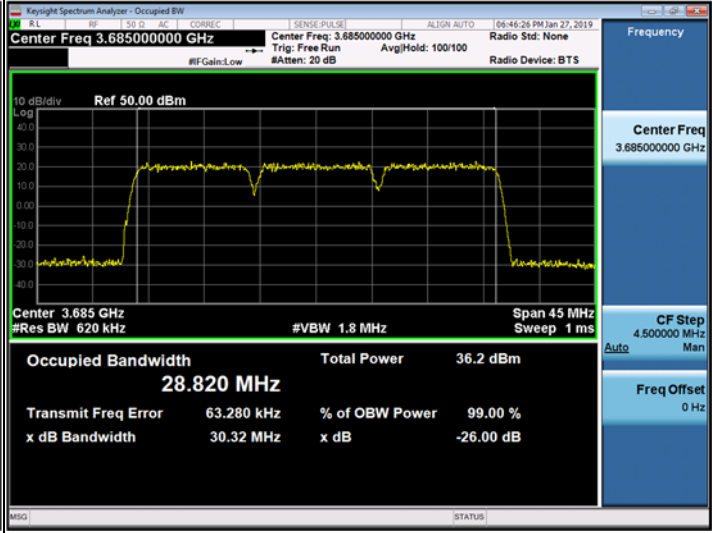
20 MHz Bandwidth + 10 MHz Bandwidth / 2 Carriers

Port	0	Port	1
Modulation:	QPSK	Modulation:	256QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms Ref 50.00 dBm Occupied Bandwidth 28.358 MHz Total Power 36.2 dBm Transmit Freq Error 256.24 kHz % of OBW Power 99.00 % x dB Bandwidth 29.92 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms Ref 50.00 dBm Occupied Bandwidth 28.414 MHz Total Power 36.2 dBm Transmit Freq Error 303.09 kHz % of OBW Power 99.00 % x dB Bandwidth 29.91 MHz x dB -26.00 dB	
Port	2	Port	3
Modulation:	256QAM	Modulation:	64QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms Ref 50.00 dBm Occupied Bandwidth 28.354 MHz Total Power 36.2 dBm Transmit Freq Error 296.59 kHz % of OBW Power 99.00 % x dB Bandwidth 29.94 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms Ref 50.00 dBm Occupied Bandwidth 28.397 MHz Total Power 36.3 dBm Transmit Freq Error 278.06 kHz % of OBW Power 99.00 % x dB Bandwidth 30.01 MHz x dB -26.00 dB	

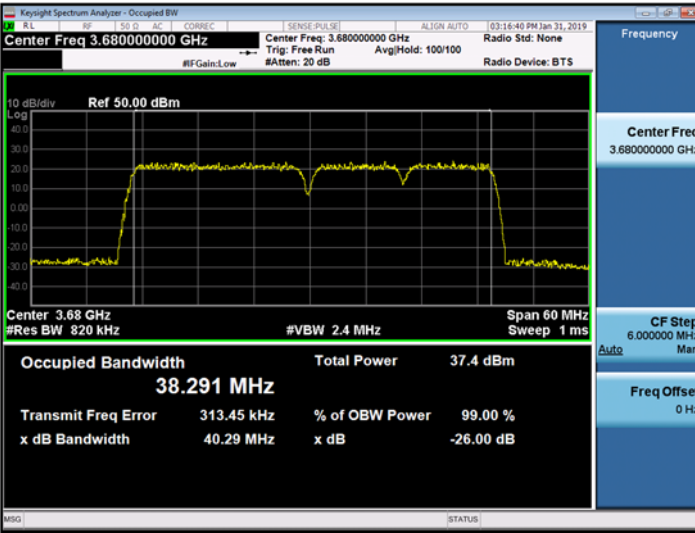
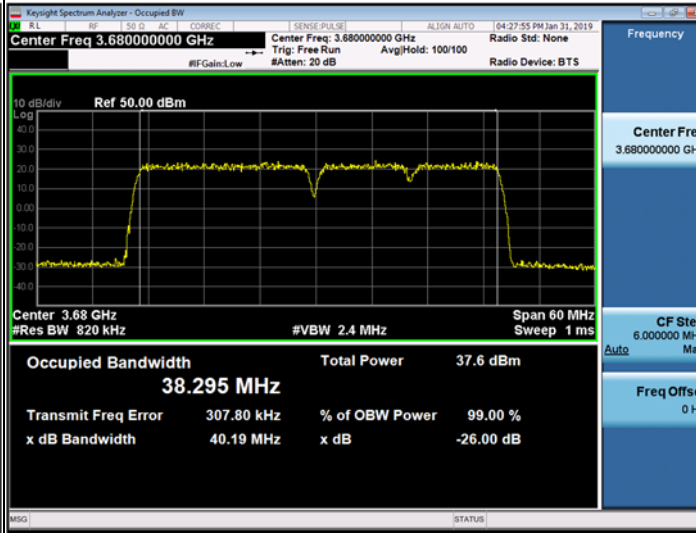
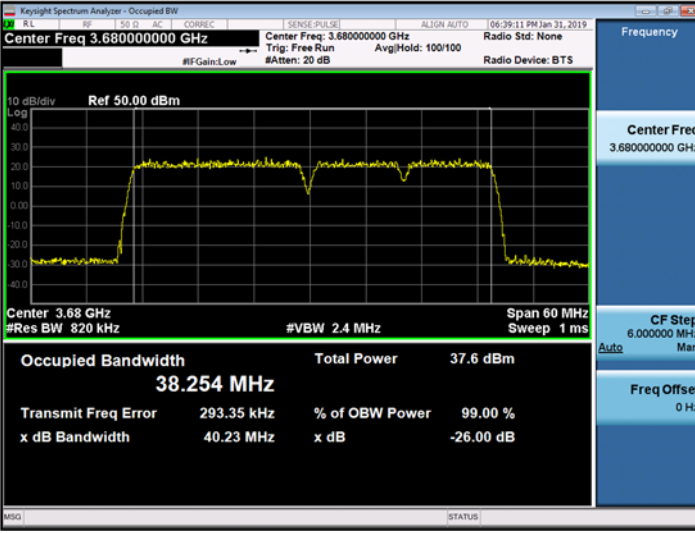
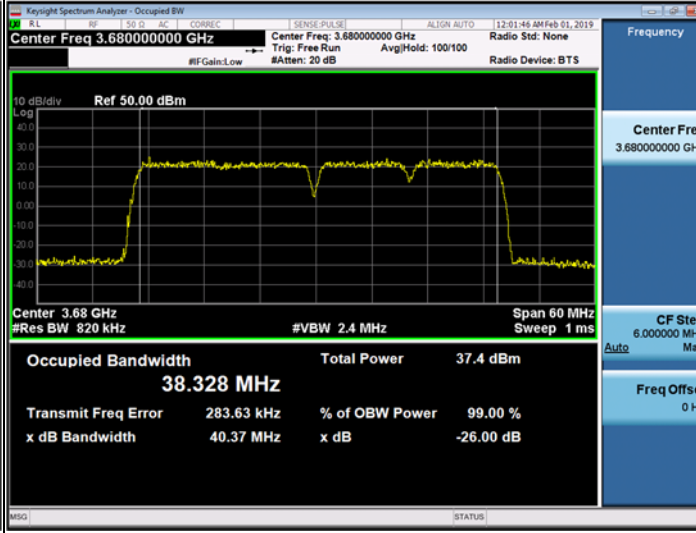
20 MHz Bandwidth + 20 MHz Bandwidth / 2 Carriers

Port	0	Port	1
Modulation:	QPSK	Modulation:	64QAM
Channel:	High	Channel:	Middle
			
Port	2	Port	3
Modulation:	QPSK	Modulation:	64QAM
Channel:	High	Channel:	High
			

10 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth / 3 Carriers

Port	0	Port	1
Modulation:	64QAM	Modulation:	64QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms CF Step 4.500000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 28.844 MHz Total Power 36.2 dBm Transmit Freq Error 35.370 kHz % of OBW Power 99.00 % x dB Bandwidth 30.28 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms CF Step 4.500000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 28.885 MHz Total Power 36.3 dBm Transmit Freq Error 64.906 kHz % of OBW Power 99.00 % x dB Bandwidth 30.39 MHz x dB -26.00 dB	
Port	2	Port	3
Modulation:	256QAM	Modulation:	64QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms CF Step 4.500000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 28.837 MHz Total Power 36.3 dBm Transmit Freq Error 50.521 kHz % of OBW Power 99.00 % x dB Bandwidth 30.35 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.685000000 GHz #Res BW 620 kHz #VBW 1.8 MHz Span 45 MHz Sweep 1 ms CF Step 4.500000 MHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 28.820 MHz Total Power 36.2 dBm Transmit Freq Error 63.280 kHz % of OBW Power 99.00 % x dB Bandwidth 30.32 MHz x dB -26.00 dB	

20 MHz Bandwidth + 10 MHz Bandwidth + 10 MHz Bandwidth / 3 Carriers

Port	0	Port	1
Modulation:	64QAM	Modulation:	256QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.680000000 GHz #Res BW 820 kHz #VBW 2.4 MHz Span 60 MHz Sweep 1 ms CF Step 6.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 38.291 MHz Total Power 37.4 dBm Transmit Freq Error 313.45 kHz % of OBW Power 99.00 % x dB Bandwidth 40.29 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.680000000 GHz #Res BW 820 kHz #VBW 2.4 MHz Span 60 MHz Sweep 1 ms CF Step 6.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 38.295 MHz Total Power 37.6 dBm Transmit Freq Error 307.80 kHz % of OBW Power 99.00 % x dB Bandwidth 40.19 MHz x dB -26.00 dB	
Port	2	Port	3
Modulation:	256QAM	Modulation:	16QAM
Channel:	High	Channel:	High
 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.680000000 GHz #Res BW 820 kHz #VBW 2.4 MHz Span 60 MHz Sweep 1 ms CF Step 6.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 38.254 MHz Total Power 37.6 dBm Transmit Freq Error 293.35 kHz % of OBW Power 99.00 % x dB Bandwidth 40.23 MHz x dB -26.00 dB		 KeySight Spectrum Analyzer - Occupied BW Center Freq 3.680000000 GHz #Res BW 820 kHz #VBW 2.4 MHz Span 60 MHz Sweep 1 ms CF Step 6.000000 MHz Freq Offset 0 Hz Occupied Bandwidth 38.328 MHz Total Power 37.4 dBm Transmit Freq Error 283.63 kHz % of OBW Power 99.00 % x dB Bandwidth 40.37 MHz x dB -26.00 dB	