

3.3. Emission Bandwidth & Occupied Bandwidth

Omni-directional Antenna			
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Test Mode	Frequency (MHz)	26 dB RF Bandwidth	99 % Occupied Bandwidth
		ANT-1 (MHz)	ANT-1 (MHz)
Mode 1	4942.5	8.550	4.373
	4967.5	8.815	4.378
	4987.5	8.905	4.549
Mode 2	4945.0	18.590	8.805
	4965.0	15.690	8.820
	4985.0	17.590	8.665
Mode 3	4950.0	35.740	17.631
	4965.0	36.610	18.867
	4980.0	34.650	18.963
Mode 4	4942.5	8.181	4.388
	4967.5	8.471	4.361
	4987.5	8.355	4.363
Mode 5	4945.0	18.130	8.814
	4965.0	18.390	9.006
	4985.0	17.810	8.908
Mode 6	4950.0	36.390	19.100
	4965.0	35.580	19.046
	4980.0	39.240	19.077

Test Mode	Frequency (MHz)	26 dB RF Bandwidth		99 % Occupied Bandwidth	
		ANT-0 (MHz)	ANT-1 (MHz)	ANT-0 (MHz)	ANT-1 (MHz)
Mode 7	4942.5	5.690	6.285	4.238	4.215
	4967.5	5.214	6.617	4.207	4.232
	4987.5	4.941	4.961	4.207	4.167
Mode 8	4945.0	17.960	17.920	9.592	9.336
	4965.0	16.300	15.460	8.656	8.549
	4985.0	15.890	16.930	8.572	8.637
Mode 9	4950.0	32.500	35.550	17.291	17.668
	4965.0	35.360	35.260	19.453	19.542
	4980.0	35.650	35.500	18.361	18.350
Mode 10	4942.5	5.040	5.791	4.190	4.224
	4967.5	4.984	5.500	4.214	4.216
	4987.5	5.681	5.407	4.192	4.190
Mode 11	4945.0	17.480	18.520	8.868	9.301
	4965.0	16.380	17.560	8.492	8.677
	4985.0	16.490	17.440	8.591	8.641
Mode 12	4950.0	35.390	37.640	18.845	18.936
	4965.0	35.610	37.060	19.260	18.835
	4980.0	34.070	36.570	18.683	19.055

Directional Panel Antenna

Test Mode	Frequency (MHz)	26 dB RF Bandwidth	99 % Occupied Bandwidth
		ANT-1 (MHz)	ANT-1 (MHz)
Mode 1	4942.5	5.433	4.193
	4967.5	4.772	4.152
	4987.5	4.778	4.201
Mode 2	4945.0	9.717	8.399
	4965.0	9.608	8.364
	4985.0	9.570	8.351
Mode 3	4950.0	21.850	17.953
	4965.0	21.110	17.865
	4980.0	22.610	17.897
Mode 4	4942.5	4.870	4.188
	4967.5	4.831	4.165
	4987.5	4.871	4.176
Mode 5	4945.0	9.649	8.306
	4965.0	9.649	8.333
	4985.0	9.719	8.335
Mode 6	4950.0	22.980	16.796
	4965.0	22.930	16.847
	4980.0	22.550	16.915

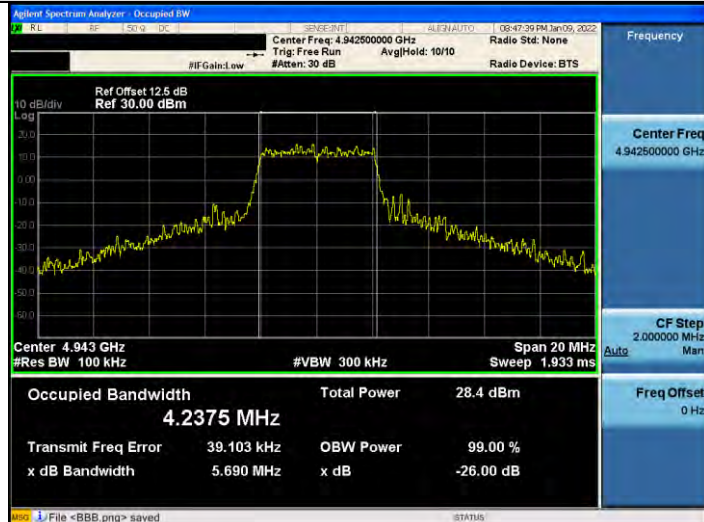
Test Mode	Frequency (MHz)	26 dB RF Bandwidth		99 % Occupied Bandwidth	
		ANT-0 (MHz)	ANT-1 (MHz)	ANT-0 (MHz)	ANT-1 (MHz)
Mode 7	4942.5	5.243	4.776	4.196	4.186
	4967.5	4.809	4.807	4.194	4.189
	4987.5	5.160	5.020	4.160	4.175
Mode 8	4945.0	10.550	9.582	8.398	8.363
	4965.0	10.640	9.534	8.359	8.357
	4985.0	9.899	9.668	8.385	8.376
Mode 9	4950.0	23.030	21.040	16.876	16.757
	4965.0	22.250	21.570	16.883	16.821
	4980.0	22.320	21.560	16.923	16.775
Mode 10	4942.5	5.336	4.745	4.160	4.172
	4967.5	5.374	4.788	4.217	4.179
	4987.5	4.827	5.223	4.200	4.174
Mode 11	4945.0	10.460	9.523	8.376	8.375
	4965.0	10.620	9.686	8.367	8.353
	4985.0	9.544	9.555	8.353	8.374
Mode 12	4950.0	22.960	24.210	17.914	18.035
	4965.0	22.890	21.970	17.859	17.889
	4980.0	23.460	22.140	18.105	17.852

Omni-directional Antenna

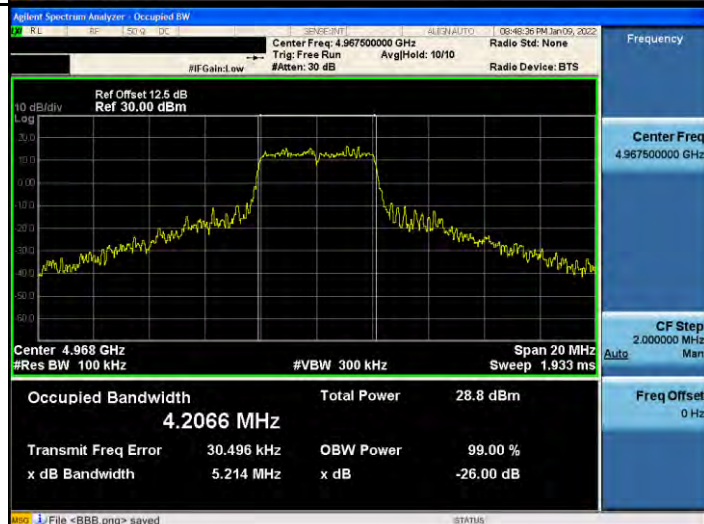
Test Graphs

Mode 7: MIMO_5 MHz Continuous TX mode (Legacy) _ANT-0

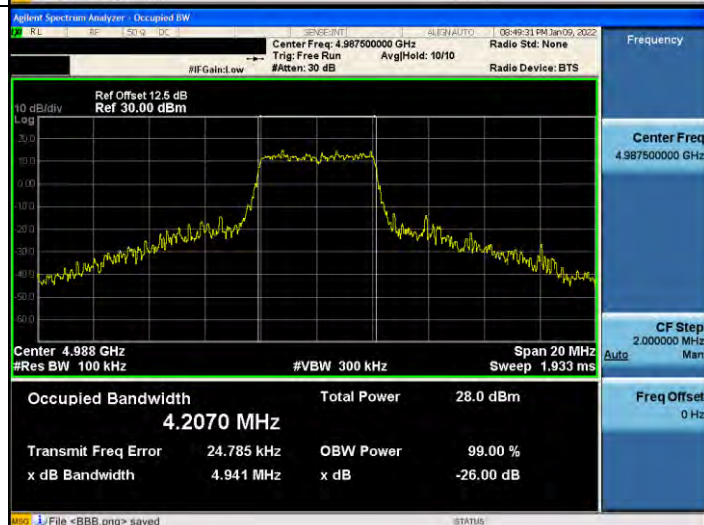
4942.5 MHz

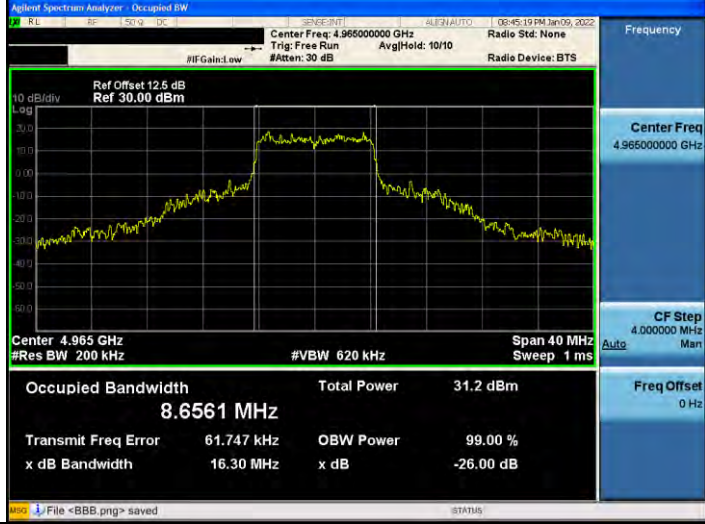
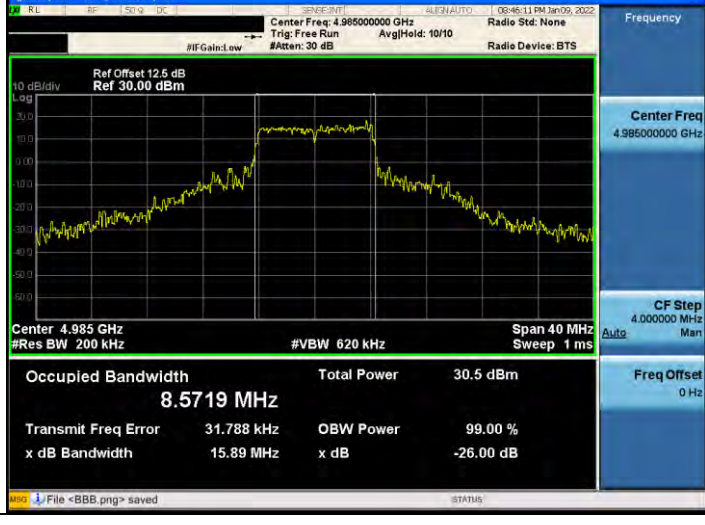


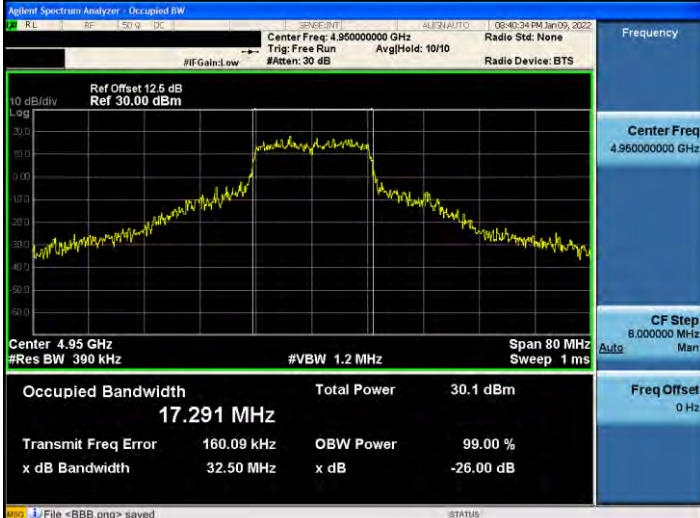
4967.5 MHz

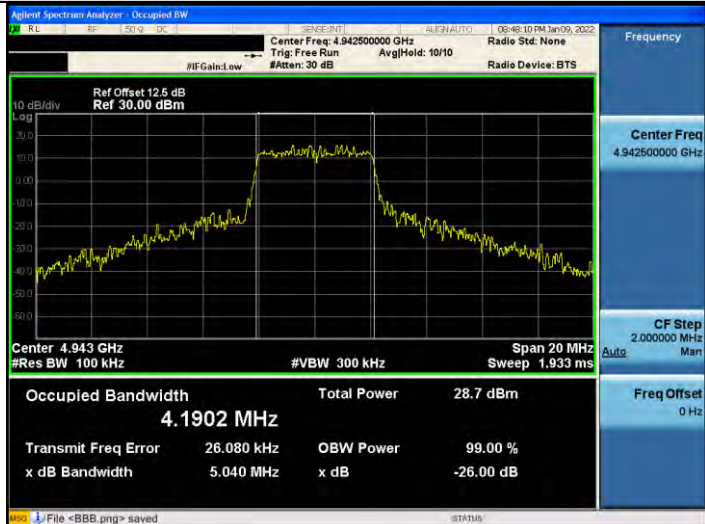
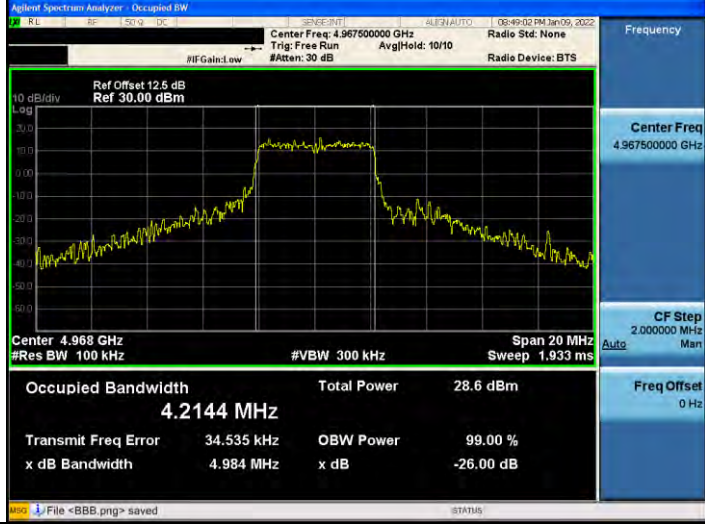
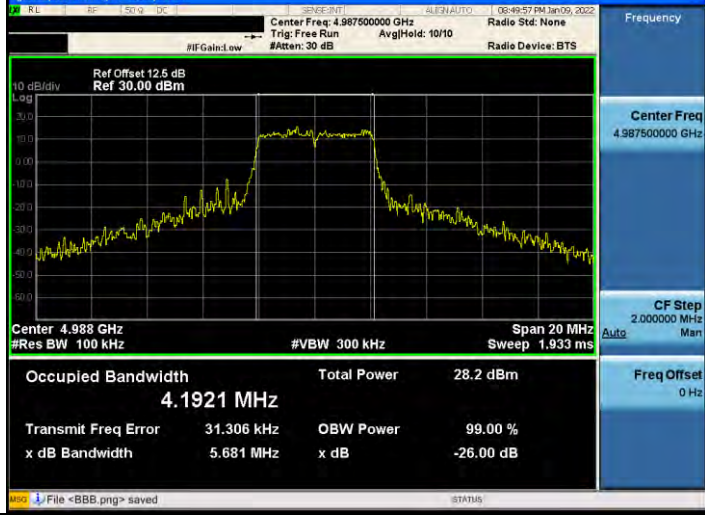


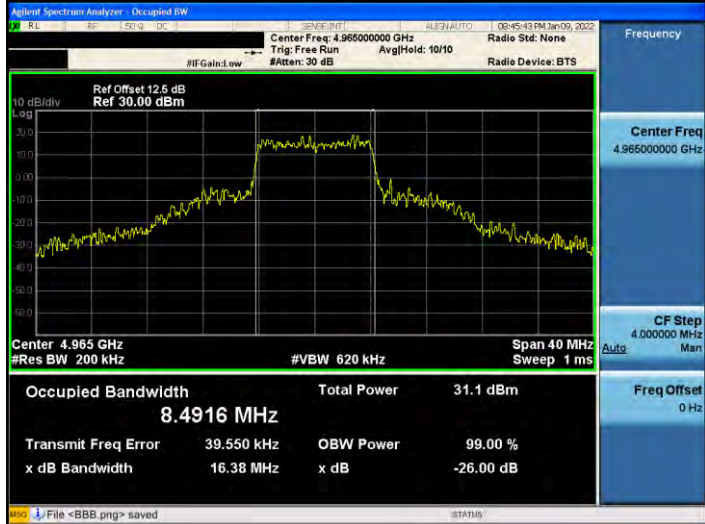
4987.5 MHz

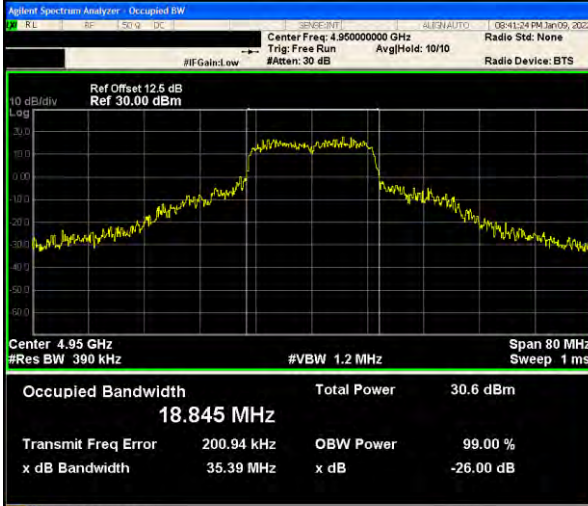
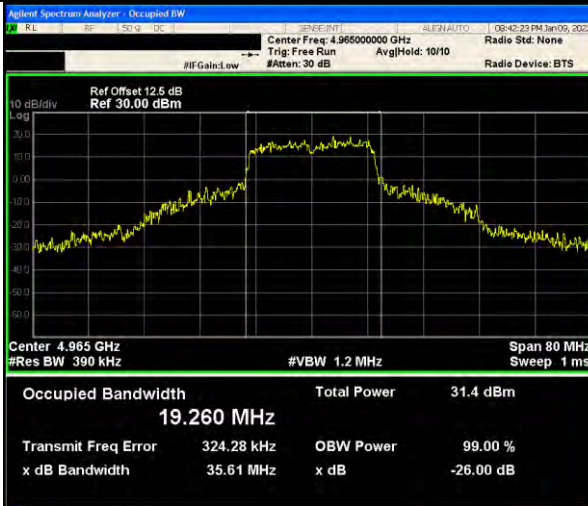
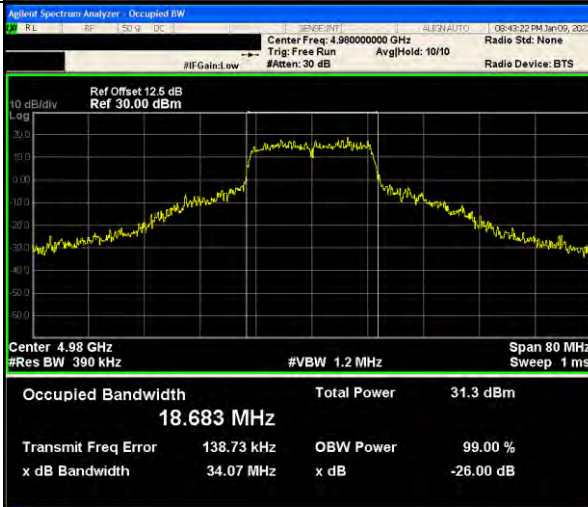


Mode 8: MIMO_10 MHz Continuous TX mode (Legacy) _ANT-0	
4945 MHz	 Center Freq: 4.94500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 9.5917 MHz Total Power: 31.1 dBm Transmit Freq Error: 21.989 kHz OBW Power: 99.00 % x dB Bandwidth: 17.96 MHz x dB: -26.00 dB
4965 MHz	 Center Freq: 4.96500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.6561 MHz Total Power: 31.2 dBm Transmit Freq Error: 61.747 kHz OBW Power: 99.00 % x dB Bandwidth: 16.30 MHz x dB: -26.00 dB
4985 MHz	 Center Freq: 4.98500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.5719 MHz Total Power: 30.5 dBm Transmit Freq Error: 31.788 kHz OBW Power: 99.00 % x dB Bandwidth: 15.89 MHz x dB: -26.00 dB

Mode 9: MIMO_20 MHz Continuous TX mode (Legacy) _ANT-0	
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Ref Offset 12.5 dB Ref 30.00 dBm Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB 10 dB/div Ref Offset 12.5 dB Ref 30.00 dBm Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.291 MHz Total Power 30.1 dBm Transmit Freq Error 160.09 kHz OBW Power 99.00 % x dB Bandwidth 32.50 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Ref Offset 12.5 dB Ref 30.00 dBm Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB 10 dB/div Ref Offset 12.5 dB Ref 30.00 dBm Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 19.453 MHz Total Power 31.0 dBm Transmit Freq Error 314.19 kHz OBW Power 99.00 % x dB Bandwidth 35.36 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Ref Offset 12.5 dB Ref 30.00 dBm Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB 10 dB/div Ref Offset 12.5 dB Ref 30.00 dBm Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.361 MHz Total Power 31.0 dBm Transmit Freq Error 150.37 kHz OBW Power 99.00 % x dB Bandwidth 35.65 MHz x dB -26.00 dB File <BBB.png> saved STATUS

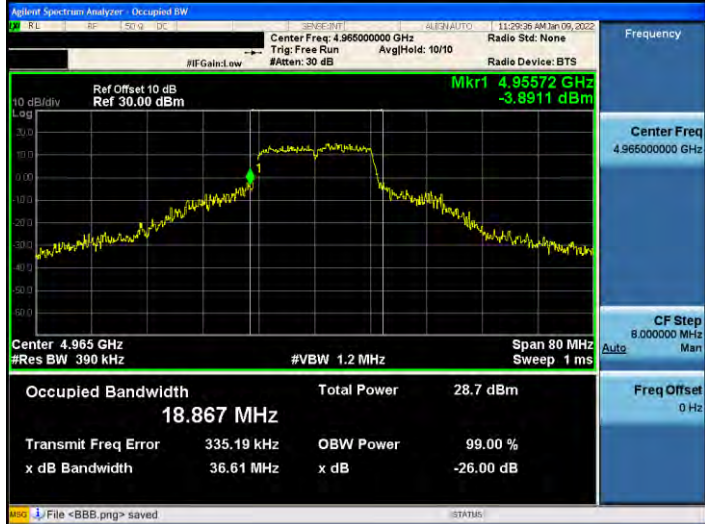
Mode 10: MIMO_5 MHz Continuous TX mode_ANT-0	
4942.5 MHz	 Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1902 MHz Total Power 28.7 dBm Transmit Freq Error 26.080 kHz OBW Power 99.00 % x dB Bandwidth 5.040 MHz x dB -26.00 dB
4967.5 MHz	 Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2144 MHz Total Power 28.6 dBm Transmit Freq Error 34.535 kHz OBW Power 99.00 % x dB Bandwidth 4.984 MHz x dB -26.00 dB
4987.5 MHz	 Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1921 MHz Total Power 28.2 dBm Transmit Freq Error 31.306 kHz OBW Power 99.00 % x dB Bandwidth 5.681 MHz x dB -26.00 dB

Mode 11: MIMO_10 MHz Continuous TX mode_ANT-0	
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Span: 40 MHz Occupied Bandwidth: 8.8677 MHz Total Power: 31.6 dBm Transmit Freq Error: 74.650 kHz OBW Power: 99.00 % x dB Bandwidth: 17.48 MHz x dB: -26.00 dB
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Span: 40 MHz Occupied Bandwidth: 8.4916 MHz Total Power: 31.1 dBm Transmit Freq Error: 39.550 kHz OBW Power: 99.00 % x dB Bandwidth: 16.38 MHz x dB: -26.00 dB
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Span: 40 MHz Occupied Bandwidth: 8.5914 MHz Total Power: 30.7 dBm Transmit Freq Error: 30.933 kHz OBW Power: 99.00 % x dB Bandwidth: 16.49 MHz x dB: -26.00 dB

Mode 12: MIMO_20 MHz Continuous TX mode_ANT-0	
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.950000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.845 MHz Total Power 30.6 dBm Transmit Freq Error 200.94 kHz OBW Power 99.00 % x dB Bandwidth 35.39 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.950000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.965000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 19.260 MHz Total Power 31.4 dBm Transmit Freq Error 324.28 kHz OBW Power 99.00 % x dB Bandwidth 35.61 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.965000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.980000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.683 MHz Total Power 31.3 dBm Transmit Freq Error 138.73 kHz OBW Power 99.00 % x dB Bandwidth 34.07 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.980000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

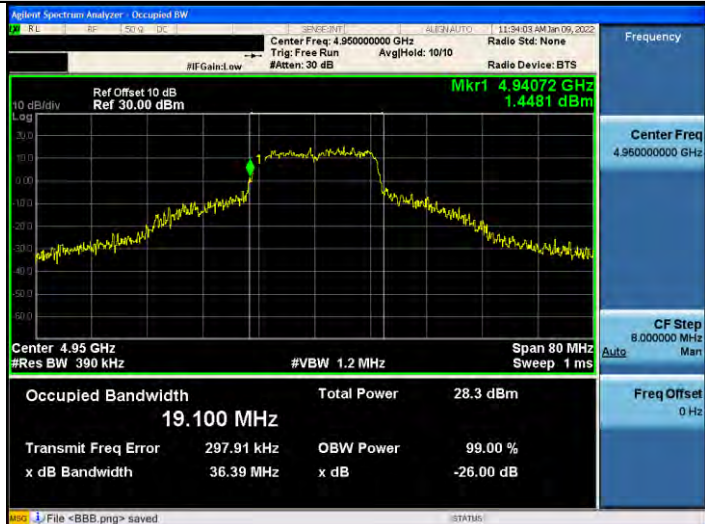
Mode 1: SISO_5 MHz Continuous TX mode (Legacy) _ANT-1		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.942500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.94038 GHz 2.1085 dBm Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.3733 MHz Total Power 28.9 dBm Transmit Freq Error 67.324 kHz OBW Power 99.00 % x dB Bandwidth 8.550 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.942500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.967500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.96538 GHz 2.7368 dBm Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.3778 MHz Total Power 29.0 dBm Transmit Freq Error 67.750 kHz OBW Power 99.00 % x dB Bandwidth 8.815 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.987500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.98528 GHz -1.9646 dBm Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.5487 MHz Total Power 29.7 dBm Transmit Freq Error 106.50 kHz OBW Power 99.00 % x dB Bandwidth 8.905 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz

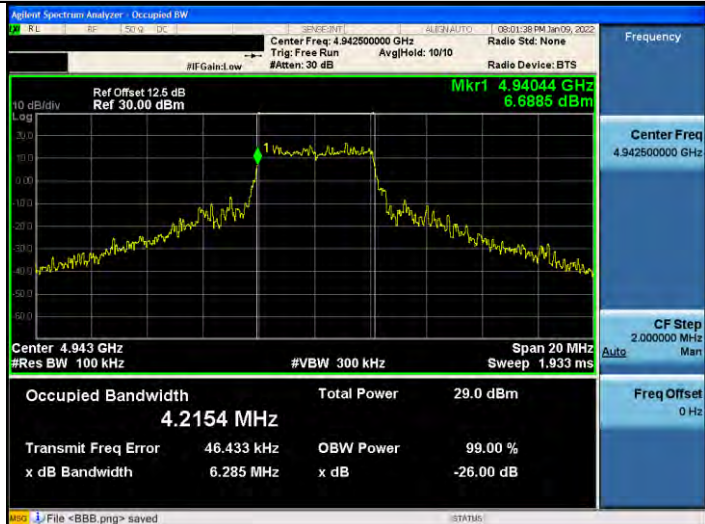
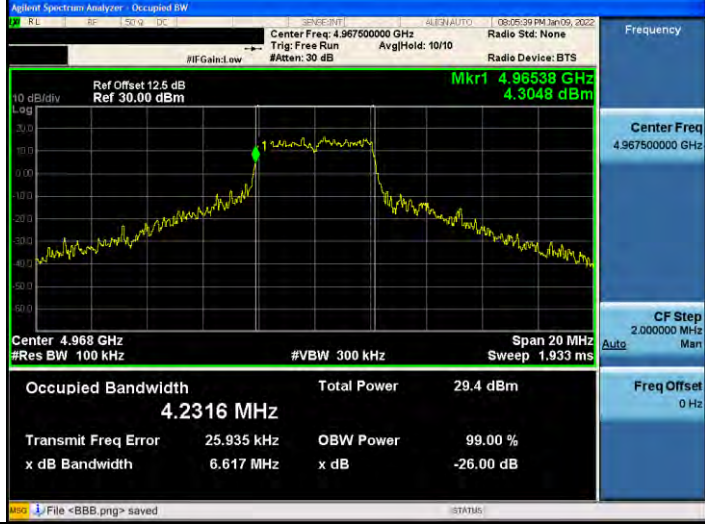
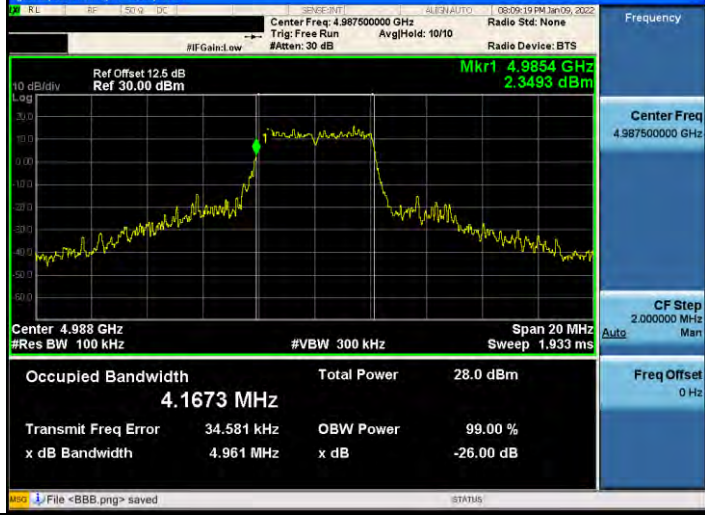
Mode 2: SISO_10 MHz Continuous TX mode (Legacy) _ANT-1		
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9406 GHz 0.19134 dBm Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.8051 MHz Total Power 29.2 dBm Transmit Freq Error 120.13 kHz OBW Power 99.00 % x dB Bandwidth 18.59 MHz x dB -26.00 dB File <BBB.png> saved STATUS	Frequency Center Freq 4.94500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.96084 GHz 1.5121 dBm Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.8196 MHz Total Power 28.9 dBm Transmit Freq Error 86.391 kHz OBW Power 99.00 % x dB Bandwidth 15.69 MHz x dB -26.00 dB File <BBB.png> saved STATUS	Frequency Center Freq 4.96500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9808 GHz 4.0732 dBm Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.6652 MHz Total Power 28.8 dBm Transmit Freq Error 126.21 kHz OBW Power 99.00 % x dB Bandwidth 17.59 MHz x dB -26.00 dB File <BBB.png> saved STATUS	Frequency Center Freq 4.98500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

Mode 3: SISO_20 MHz Continuous TX mode (Legacy) _ANT-1		
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9412 GHz -1.3997 dBm Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.631 MHz Total Power 28.1 dBm Transmit Freq Error 239.13 kHz OBW Power 99.00 % x dB Bandwidth 35.74 MHz x dB -26.00 dB File <BBB.png> saved	Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.95572 GHz -3.8911 dBm Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.867 MHz Total Power 28.7 dBm Transmit Freq Error 335.19 kHz OBW Power 99.00 % x dB Bandwidth 36.61 MHz x dB -26.00 dB File <BBB.png> saved	Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.97072 GHz -4.0962 dBm Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.963 MHz Total Power 29.5 dBm Transmit Freq Error 266.99 kHz OBW Power 99.00 % x dB Bandwidth 34.65 MHz x dB -26.00 dB File <BBB.png> saved	Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

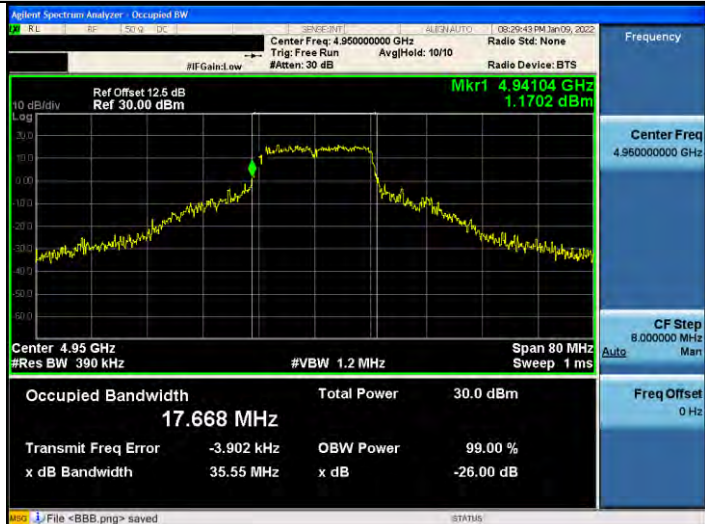
Mode 4: SISO_5 MHz Continuous TX mode_ANT-1		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94250000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.94034 GHz 0.84546 dBm Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.3877 MHz Total Power 28.6 dBm Transmit Freq Error 38.178 kHz OBW Power 99.00 % x dB Bandwidth 8.181 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.94250000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz	
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96750000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.96534 GHz 0.15928 dBm Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.3607 MHz Total Power 28.9 dBm Transmit Freq Error 52.485 kHz OBW Power 99.00 % x dB Bandwidth 8.471 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.96750000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz	
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98750000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.98538 GHz 4.2058 dBm Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.3633 MHz Total Power 29.9 dBm Transmit Freq Error 65.124 kHz OBW Power 99.00 % x dB Bandwidth 8.355 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.98750000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz	

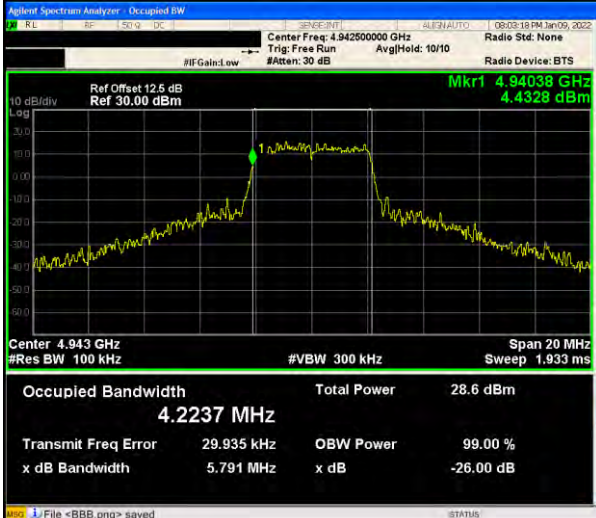
Mode 5: SISO_10 MHz Continuous TX mode_ANT-1	
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.94084 GHz 0.50813 dBm Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.8137 MHz Total Power 28.4 dBm Transmit Freq Error 98.259 kHz OBW Power 99.00 % x dB Bandwidth 18.13 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9606 GHz -0.42182 dBm Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 9.0055 MHz Total Power 28.6 dBm Transmit Freq Error 153.08 kHz OBW Power 99.00 % x dB Bandwidth 18.39 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9806 GHz -0.90330 dBm Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.9079 MHz Total Power 29.2 dBm Transmit Freq Error 158.87 kHz OBW Power 99.00 % x dB Bandwidth 17.81 MHz x dB -26.00 dB File <BBB.png> saved STATUS

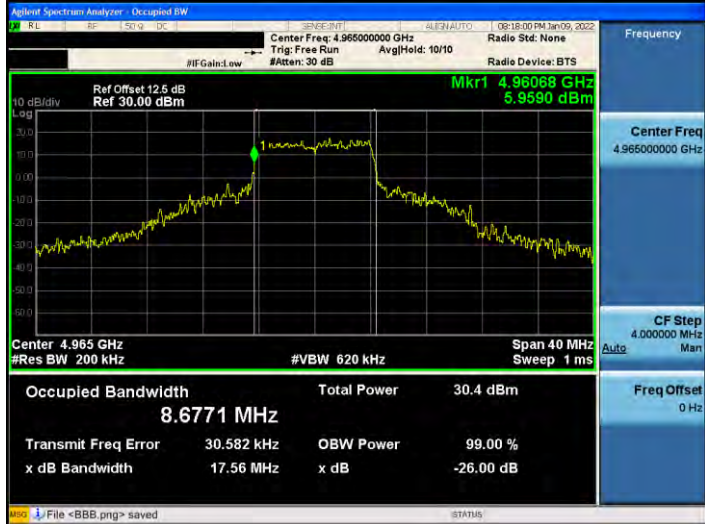
Mode 6: SISO_20 MHz Continuous TX mode_ANT-1	
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.94072 GHz 1.4481 dBm Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 19.100 MHz Total Power 28.3 dBm Transmit Freq Error 297.91 kHz OBW Power 99.00 % x dB Bandwidth 36.39 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9556 GHz -6.2153 dBm Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 19.046 MHz Total Power 28.7 dBm Transmit Freq Error 309.56 kHz OBW Power 99.00 % x dB Bandwidth 35.58 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 10 dB Ref 30.00 dBm Mkr1 4.9708 GHz -0.65009 dBm Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 19.077 MHz Total Power 28.9 dBm Transmit Freq Error 349.50 kHz OBW Power 99.00 % x dB Bandwidth 39.24 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

Mode 7: MIMO_5 MHz Continuous TX mode (Legacy) _ANT-1		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94250000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.94044 GHz 6.6885 dBm Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2154 MHz Total Power 29.0 dBm Transmit Freq Error 46.433 kHz OBW Power 99.00 % x dB Bandwidth 6.285 MHz x dB -26.00 dB File <BBB.png> saved	Frequency Center Freq 4.94250000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96750000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.96538 GHz 4.3048 dBm Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2316 MHz Total Power 29.4 dBm Transmit Freq Error 25.935 kHz OBW Power 99.00 % x dB Bandwidth 6.617 MHz x dB -26.00 dB File <BBB.png> saved	Frequency Center Freq 4.96750000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98750000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.9854 GHz 2.3493 dBm Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1673 MHz Total Power 28.0 dBm Transmit Freq Error 34.581 kHz OBW Power 99.00 % x dB Bandwidth 4.961 MHz x dB -26.00 dB File <BBB.png> saved	Frequency Center Freq 4.98750000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz

Mode 8: MIMO_10 MHz Continuous TX mode (Legacy) _ANT-1	
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.9404 GHz -0.54950 dBm Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 9.3362 MHz Total Power 31.4 dBm Transmit Freq Error 161.10 kHz OBW Power 99.00 % x dB Bandwidth 17.92 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.94500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.96072 GHz 1.8094 dBm Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.5485 MHz Total Power 30.2 dBm Transmit Freq Error 19.442 kHz OBW Power 99.00 % x dB Bandwidth 15.46 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.96500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.98068 GHz 4.2451 dBm Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.6369 MHz Total Power 30.5 dBm Transmit Freq Error 49.529 kHz OBW Power 99.00 % x dB Bandwidth 16.93 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.98500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

Mode 9: MIMO_20 MHz Continuous TX mode (Legacy) _ANT-1		
4950 MHz		Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz		Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz		Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

Mode 10: MIMO_5 MHz Continuous TX mode_ANT-1		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.942500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.94038 GHz 4.4328 dBm Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2237 MHz Total Power 28.6 dBm Transmit Freq Error 29.935 kHz OBW Power 99.00 % x dB Bandwidth 5.791 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.942500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.967500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.96538 GHz 4.2309 dBm Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2160 MHz Total Power 29.5 dBm Transmit Freq Error 28.950 kHz OBW Power 99.00 % x dB Bandwidth 5.500 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.987500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.98546 GHz 6.4776 dBm Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1900 MHz Total Power 27.9 dBm Transmit Freq Error 37.010 kHz OBW Power 99.00 % x dB Bandwidth 5.407 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz

Mode 11: MIMO_10 MHz Continuous TX mode_ANT-1		
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.94036 GHz -1.3977 dBm Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 9.3005 MHz Total Power 31.0 dBm Transmit Freq Error 156.14 kHz OBW Power 99.00 % x dB Bandwidth 18.52 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.94500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.96068 GHz 5.9590 dBm Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.6771 MHz Total Power 30.4 dBm Transmit Freq Error 30.582 kHz OBW Power 99.00 % x dB Bandwidth 17.56 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.96500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.98068 GHz 5.8861 dBm Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.6407 MHz Total Power 30.9 dBm Transmit Freq Error 45.597 kHz OBW Power 99.00 % x dB Bandwidth 17.44 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.98500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

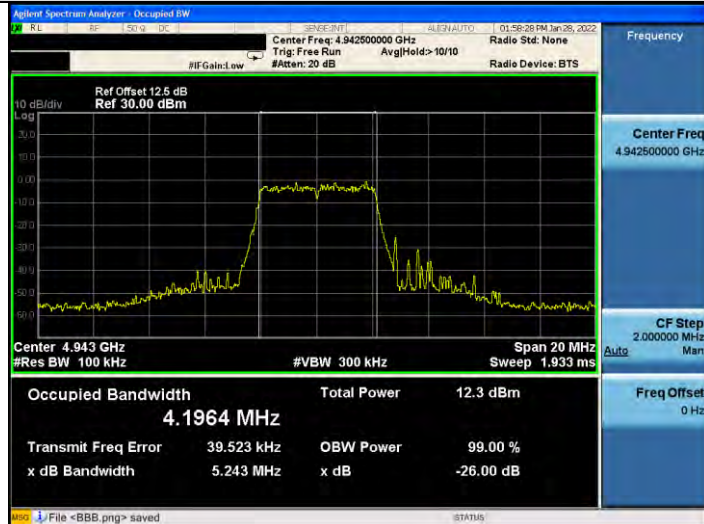
Mode 12: MIMO_20 MHz Continuous TX mode_ANT-1	
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.94084 GHz -0.17615 dBm Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.936 MHz Total Power 30.6 dBm Transmit Freq Error 171.78 kHz OBW Power 99.00 % x dB Bandwidth 37.64 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.9556 GHz 1.0130 dBm Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.835 MHz Total Power 30.7 dBm Transmit Freq Error 237.12 kHz OBW Power 99.00 % x dB Bandwidth 37.06 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm Mkr1 4.97056 GHz 1.4391 dBm Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 19.055 MHz Total Power 30.7 dBm Transmit Freq Error 233.31 kHz OBW Power 99.00 % x dB Bandwidth 36.57 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

Directional Panel Antenna

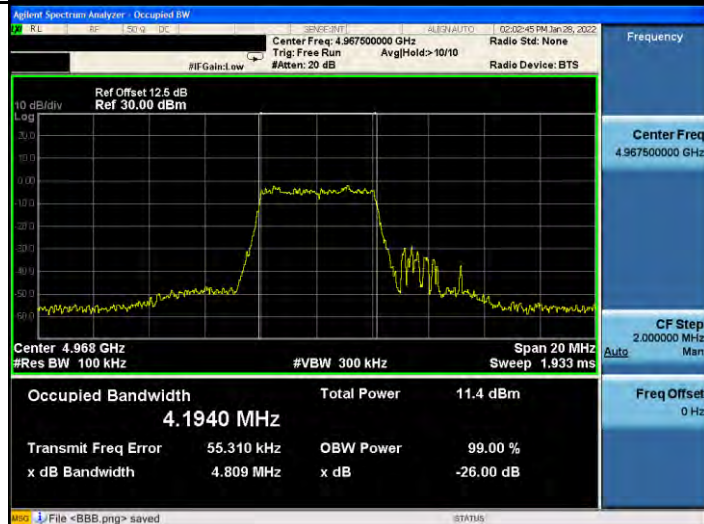
■ Test Graphs

Mode 7: MIMO_5 MHz Continuous TX mode (Legacy) _ANT-0

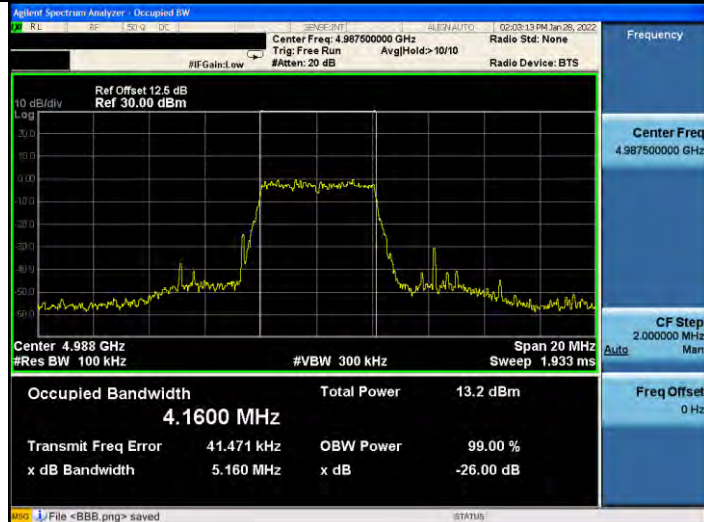
4942.5 MHz

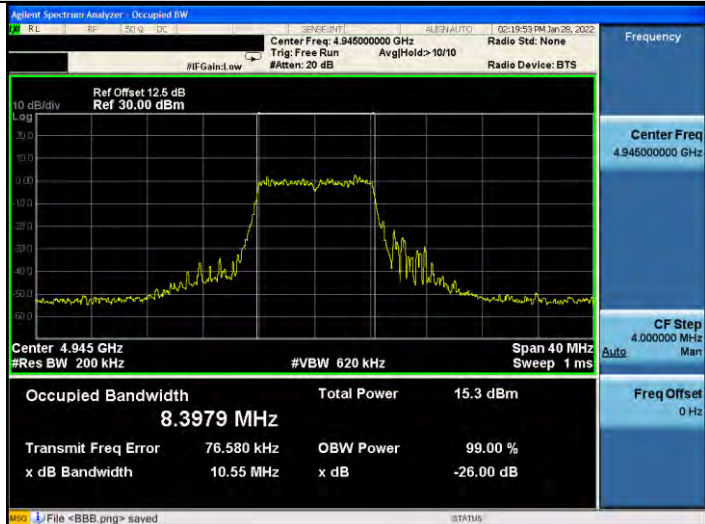
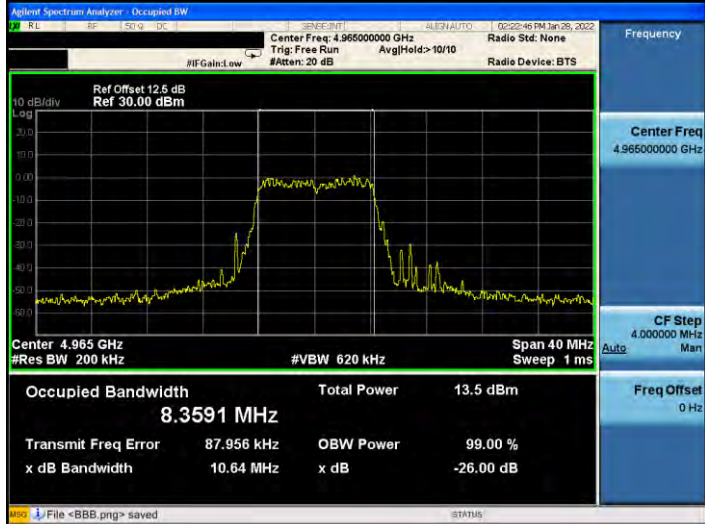
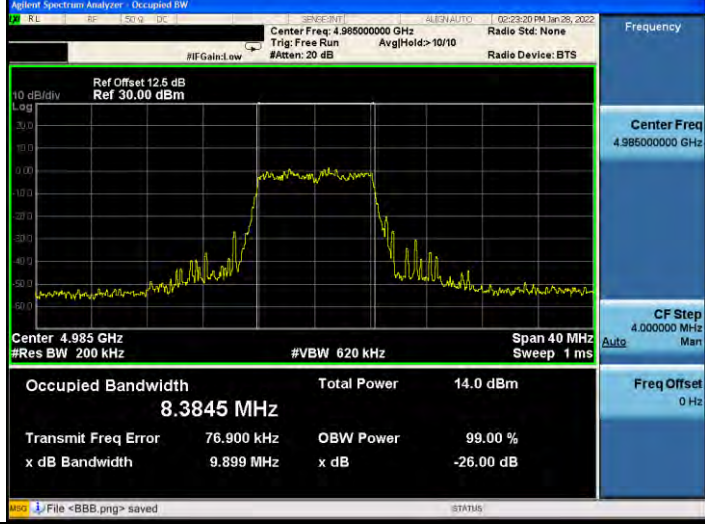


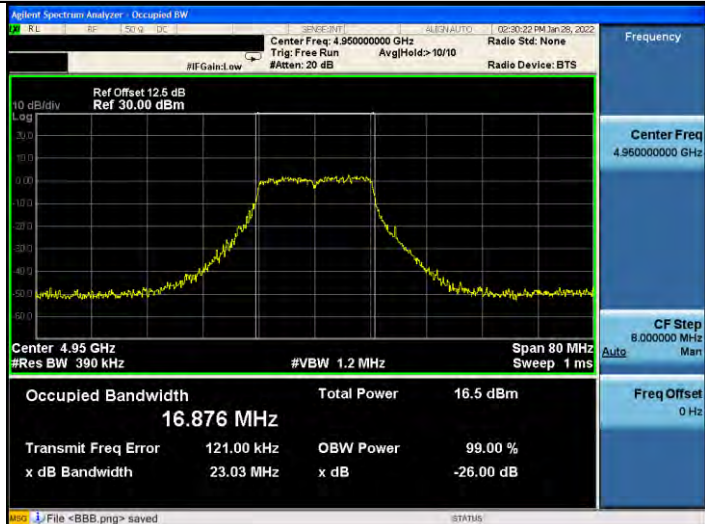
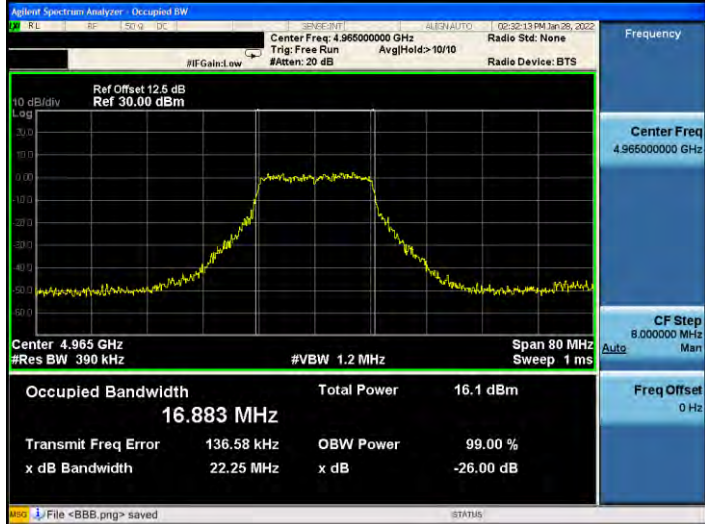
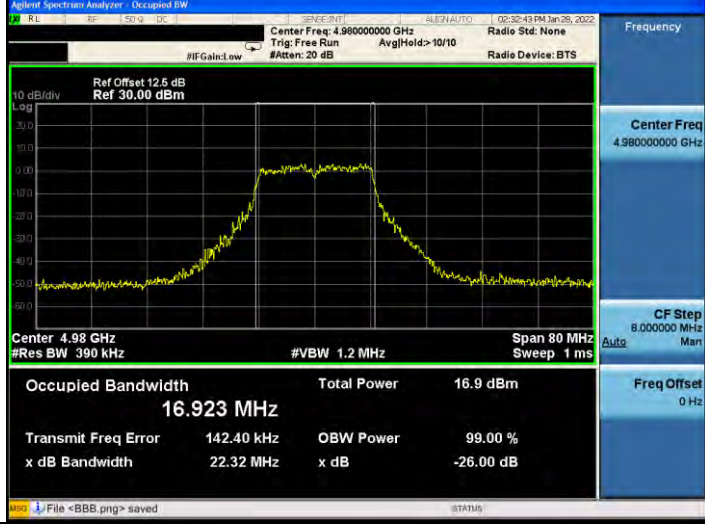
4967.5 MHz

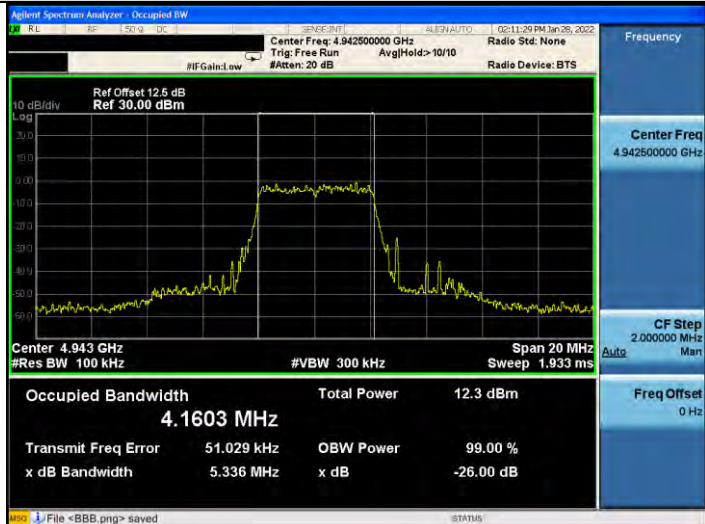
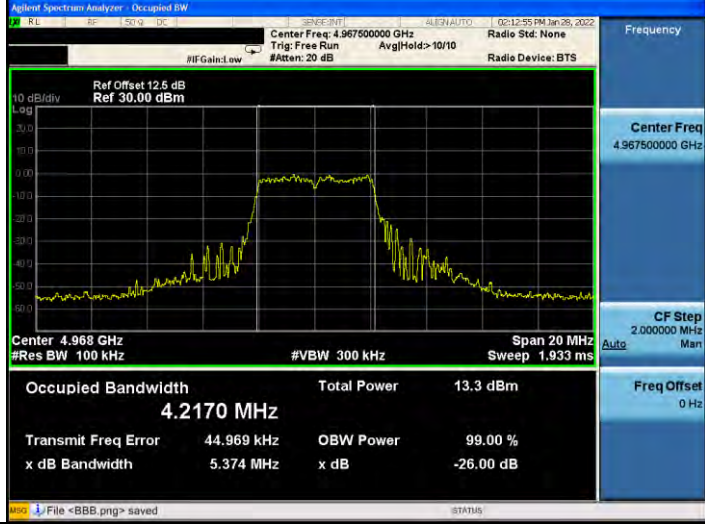
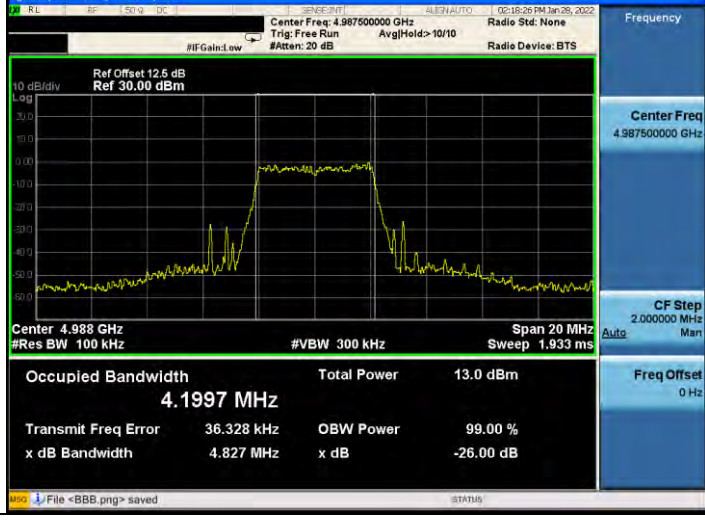


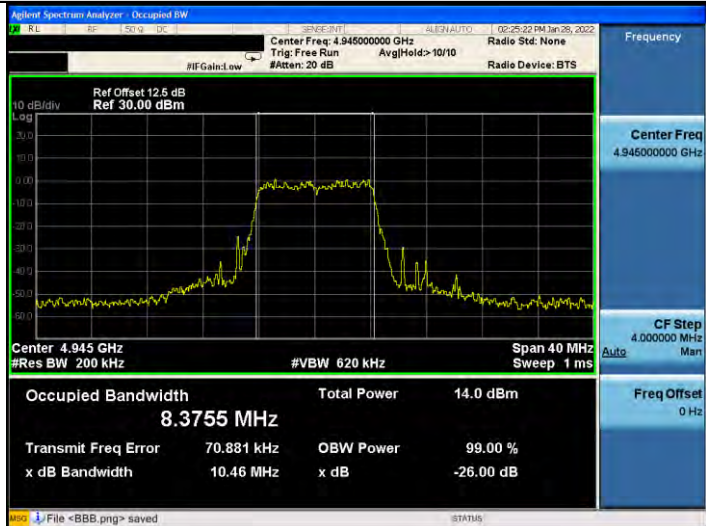
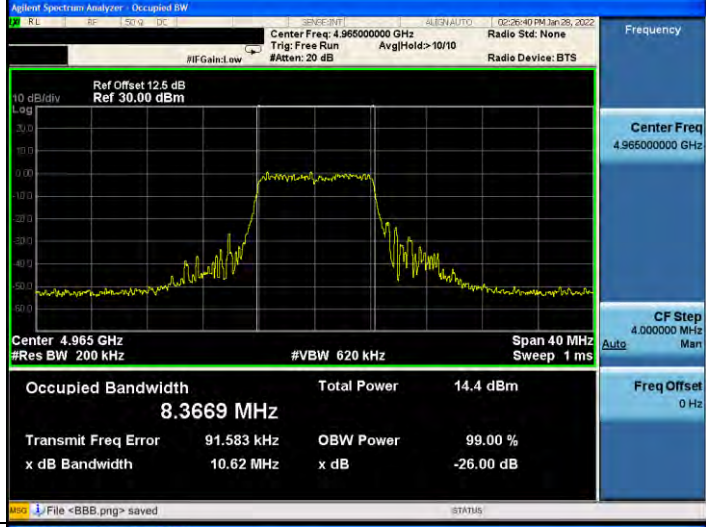
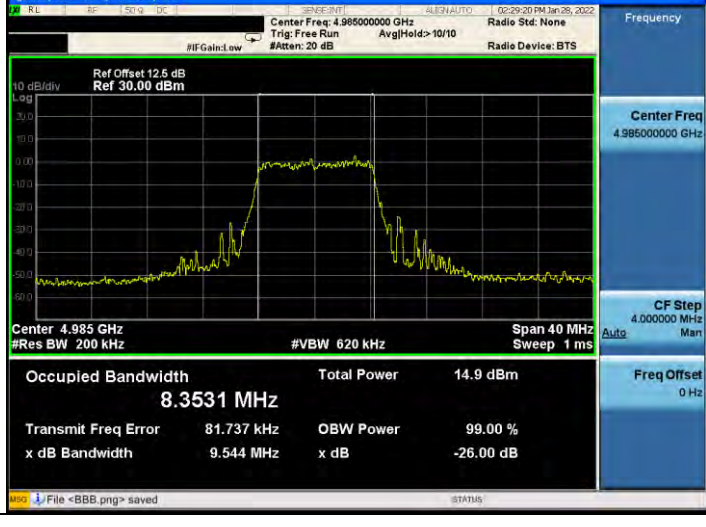
4987.5 MHz

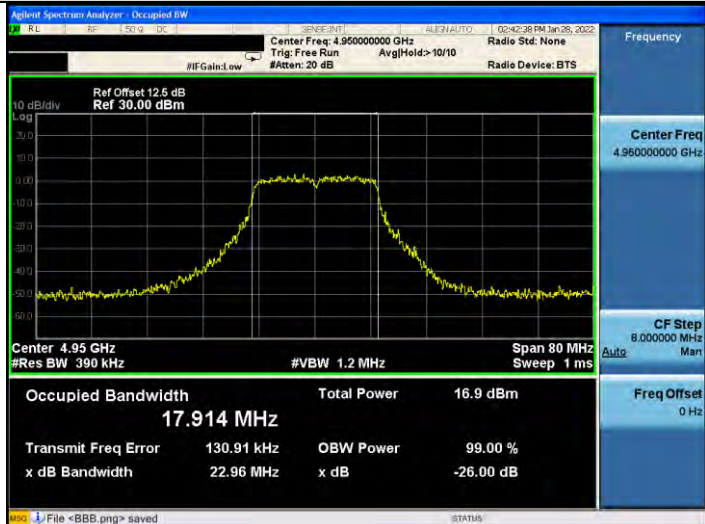
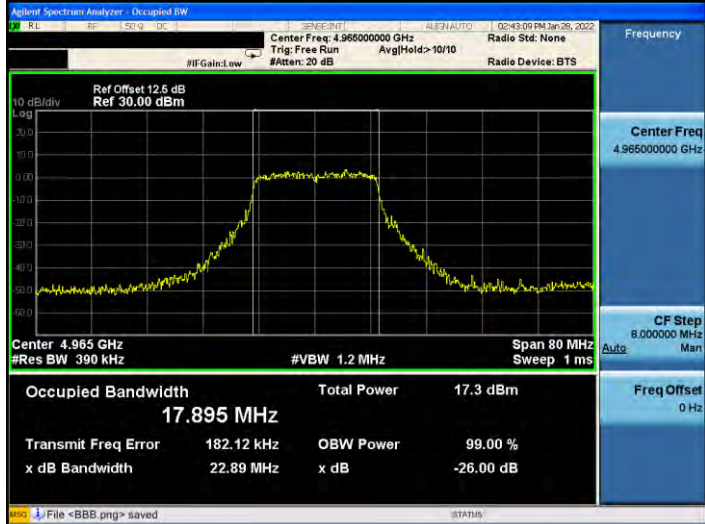
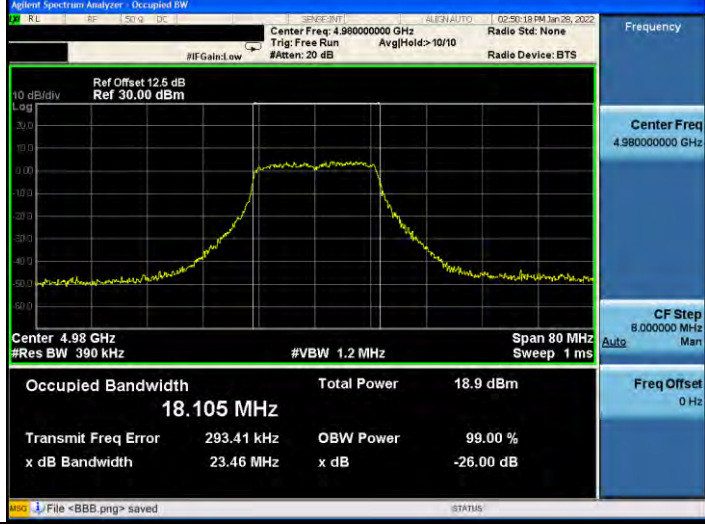


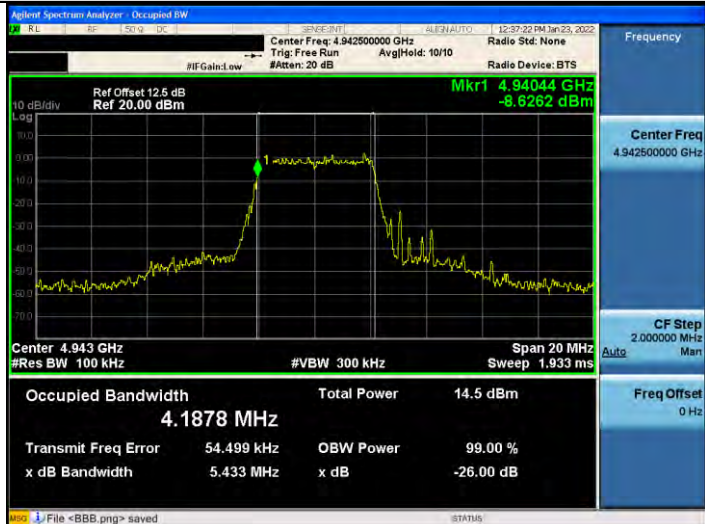
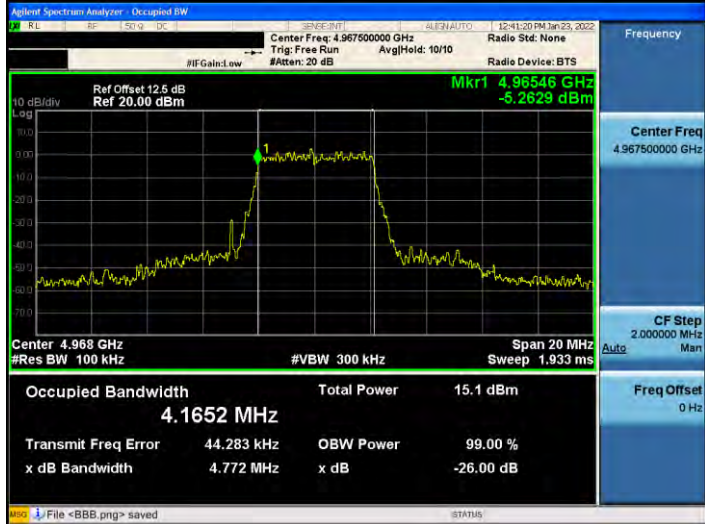
Mode 8: MIMO_10 MHz Continuous TX mode (Legacy) _ANT-0	
4945 MHz	 Center Freq: 4.94500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.3979 MHz Total Power: 15.3 dBm Transmit Freq Error: 76.580 kHz OBW Power: 99.00 % x dB Bandwidth: 10.55 MHz x dB: -26.00 dB
4965 MHz	 Center Freq: 4.96500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.3591 MHz Total Power: 13.5 dBm Transmit Freq Error: 87.956 kHz OBW Power: 99.00 % x dB Bandwidth: 10.64 MHz x dB: -26.00 dB
4985 MHz	 Center Freq: 4.98500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.3845 MHz Total Power: 14.0 dBm Transmit Freq Error: 76.900 kHz OBW Power: 99.00 % x dB Bandwidth: 9.899 MHz x dB: -26.00 dB

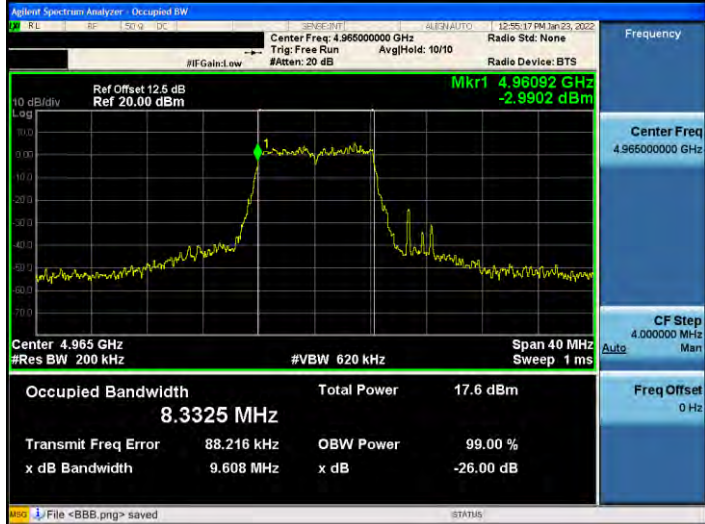
Mode 9: MIMO_20 MHz Continuous TX mode (Legacy) _ANT-0		
4950 MHz	 Center Freq: 4.95000000 GHz Span: 80 MHz Occupied Bandwidth: 16.876 MHz	Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Center Freq: 4.96500000 GHz Span: 80 MHz Occupied Bandwidth: 16.883 MHz	Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Center Freq: 4.98000000 GHz Span: 80 MHz Occupied Bandwidth: 16.923 MHz	Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

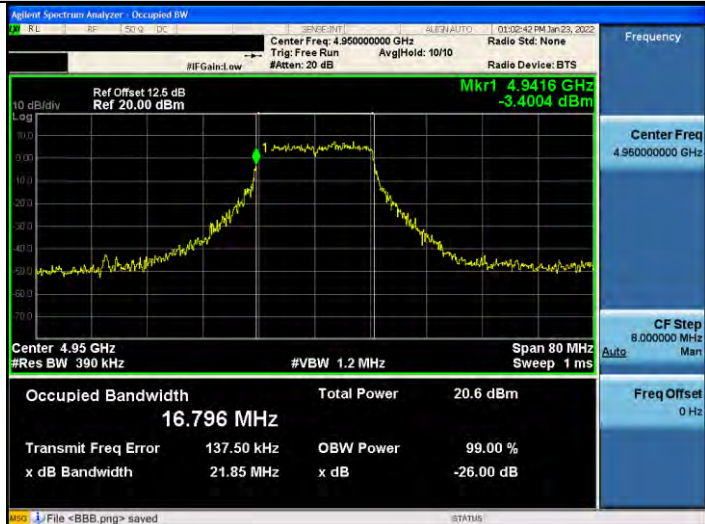
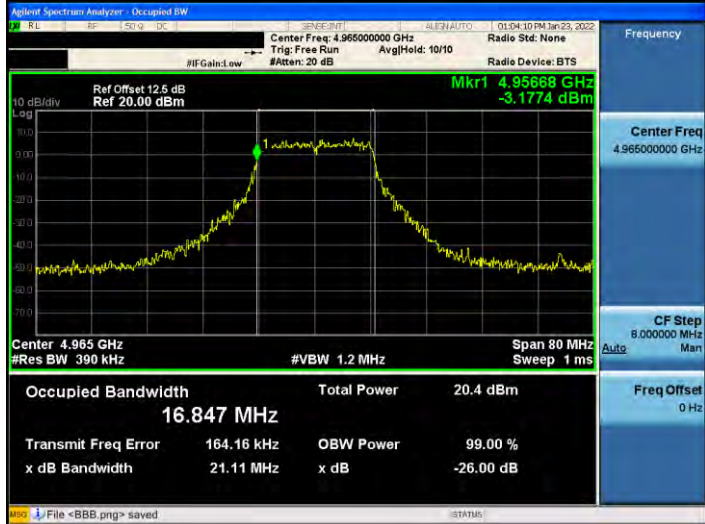
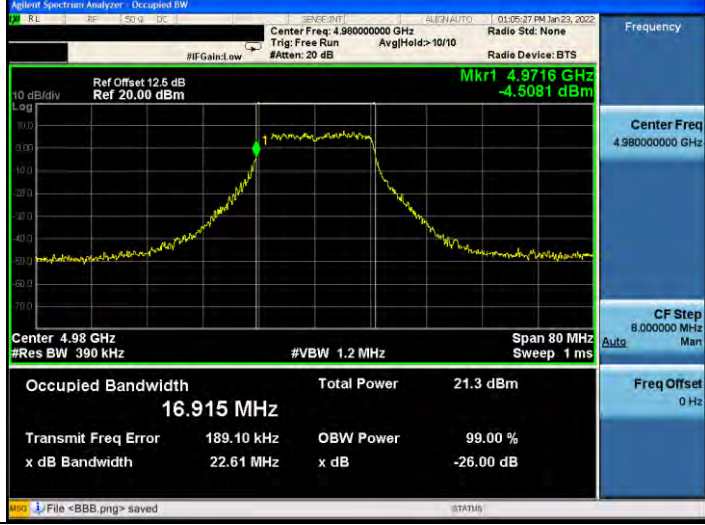
Mode 10: MIMO_5 MHz Continuous TX mode_ANT-0		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.942500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1603 MHz Total Power 12.3 dBm Transmit Freq Error 51.029 kHz OBW Power 99.00 % x dB Bandwidth 5.336 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.942500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz	
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.967500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2170 MHz Total Power 13.3 dBm Transmit Freq Error 44.969 kHz OBW Power 99.00 % x dB Bandwidth 5.374 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz	
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.987500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1997 MHz Total Power 13.0 dBm Transmit Freq Error 36.328 kHz OBW Power 99.00 % x dB Bandwidth 4.827 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz	

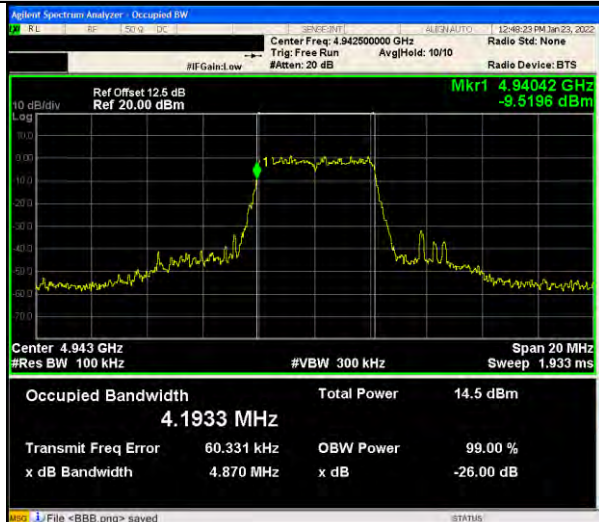
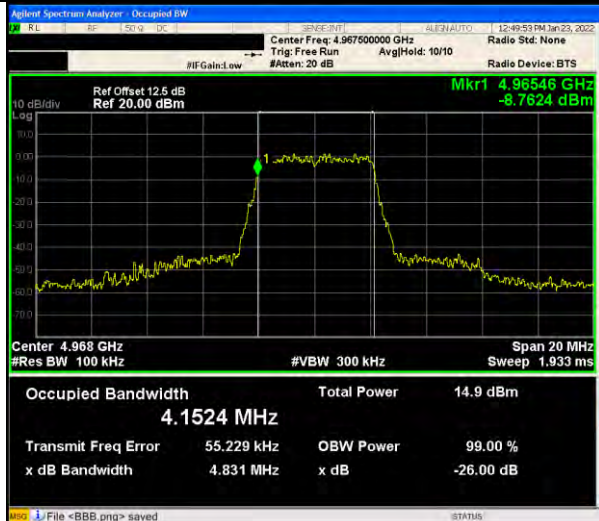
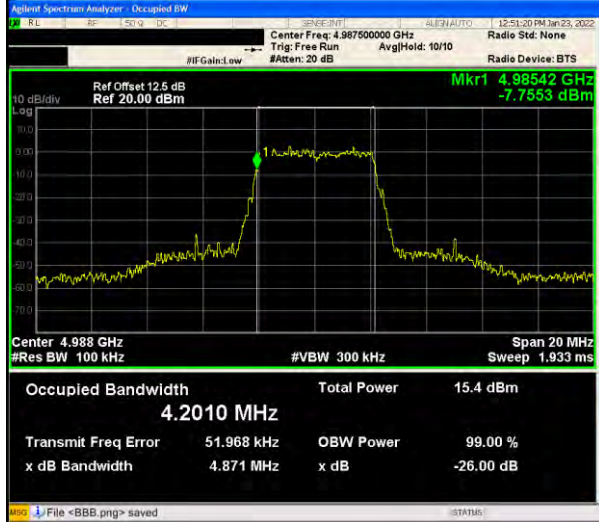
Mode 11: MIMO_10 MHz Continuous TX mode_ANT-0	
4945 MHz	
4965 MHz	
4985 MHz	

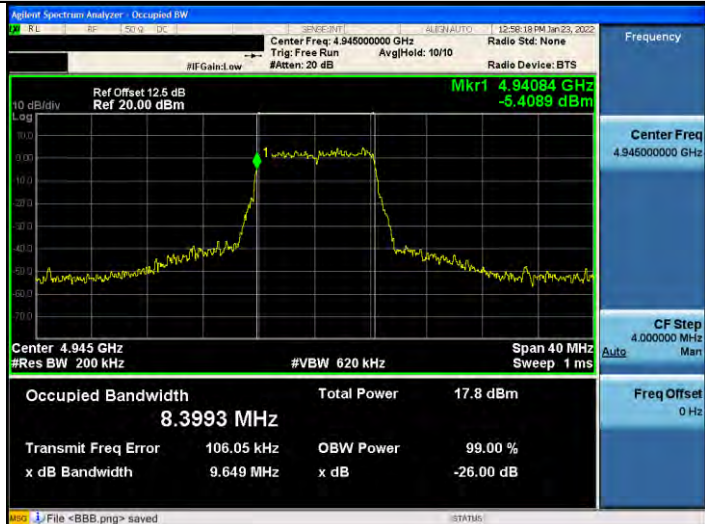
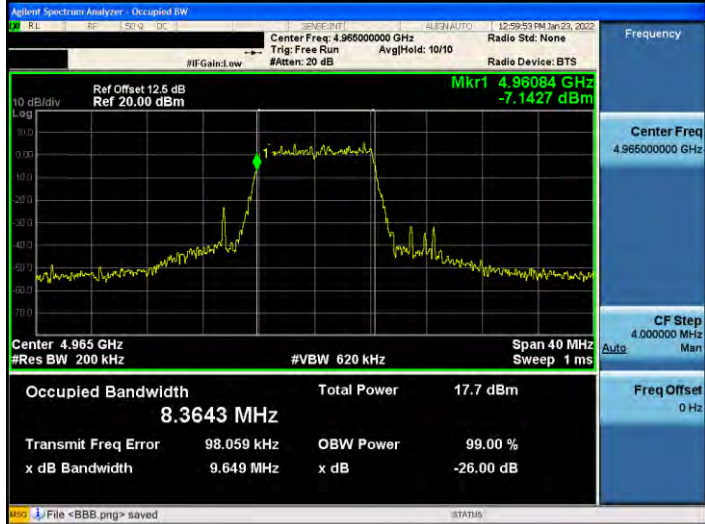
Mode 12: MIMO_20 MHz Continuous TX mode_ANT-0		
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Trig: Free Run #Att: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.914 MHz Total Power 16.9 dBm Transmit Freq Error 130.91 kHz OBW Power 99.00 % x dB Bandwidth 22.96 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run #Att: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.895 MHz Total Power 17.3 dBm Transmit Freq Error 182.12 kHz OBW Power 99.00 % x dB Bandwidth 22.89 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Trig: Free Run #Att: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.105 MHz Total Power 18.9 dBm Transmit Freq Error 293.41 kHz OBW Power 99.00 % x dB Bandwidth 23.46 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

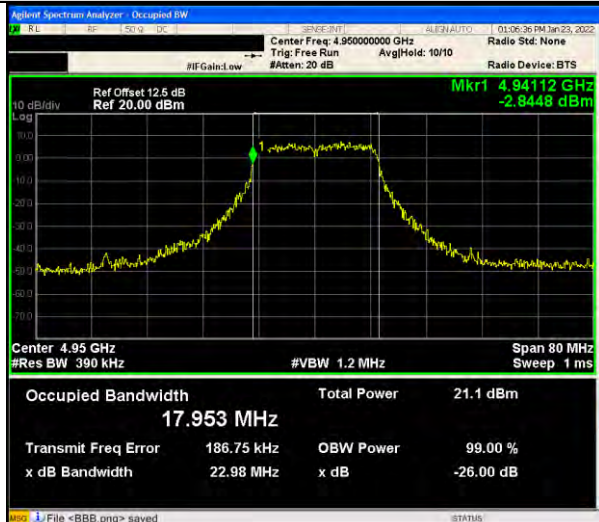
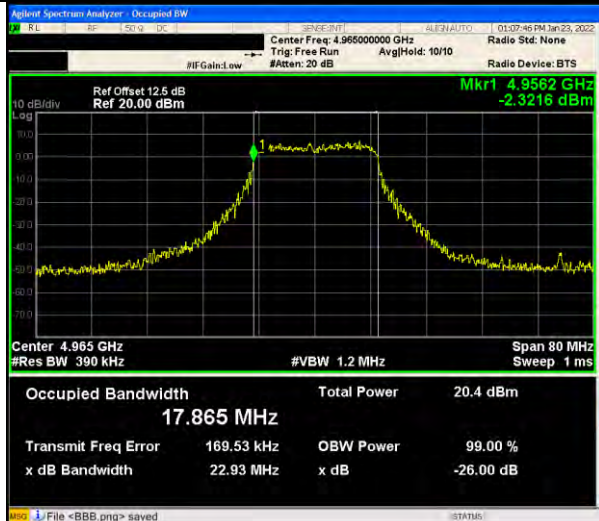
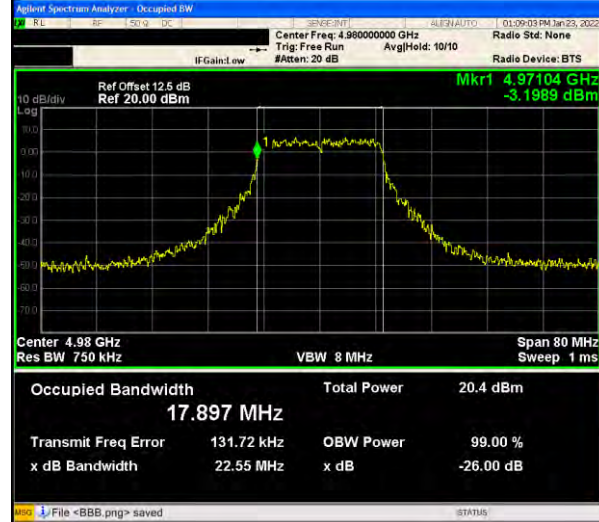
Mode 1: SISO_5 MHz Continuous TX mode (Legacy) _ANT-1		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94250000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.94044 GHz -8.6262 dBm Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1878 MHz Total Power 14.5 dBm Transmit Freq Error 54.499 kHz OBW Power 99.00 % x dB Bandwidth 5.433 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.94250000 GHz CF Step 2.000000 MHz Man Freq Offset 0 Hz
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.967500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.96546 GHz -5.2629 dBm Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1652 MHz Total Power 15.1 dBm Transmit Freq Error 44.283 kHz OBW Power 99.00 % x dB Bandwidth 4.772 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Man Freq Offset 0 Hz
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.987500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.98542 GHz -8.3872 dBm Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1760 MHz Total Power 15.7 dBm Transmit Freq Error 56.185 kHz OBW Power 99.00 % x dB Bandwidth 4.778 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Man Freq Offset 0 Hz

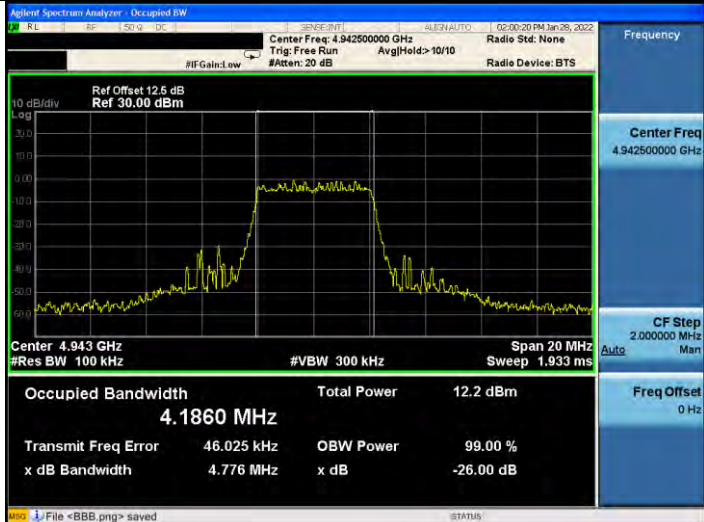
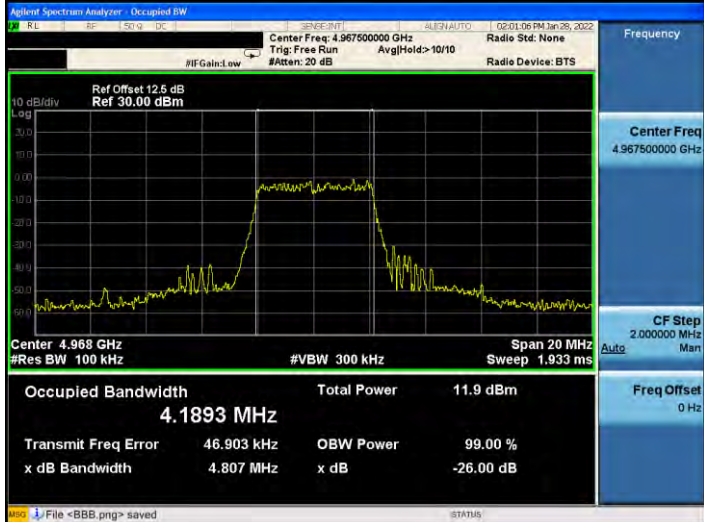
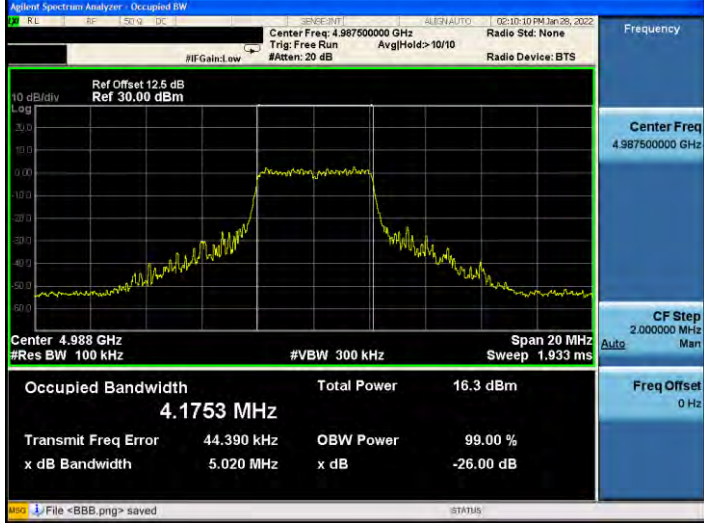
Mode 2: SISO_10 MHz Continuous TX mode (Legacy) _ANT-1	
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.94096 GHz -2.2896 dBm Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3058 MHz Total Power 17.8 dBm Transmit Freq Error 102.27 kHz OBW Power 99.00 % x dB Bandwidth 9.717 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.96092 GHz -2.9902 dBm Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3325 MHz Total Power 17.6 dBm Transmit Freq Error 88.216 kHz OBW Power 99.00 % x dB Bandwidth 9.608 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.98092 GHz -1.1996 dBm Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3350 MHz Total Power 17.5 dBm Transmit Freq Error 74.759 kHz OBW Power 99.00 % x dB Bandwidth 9.570 MHz x dB -26.00 dB File <BBB.png> saved STATUS

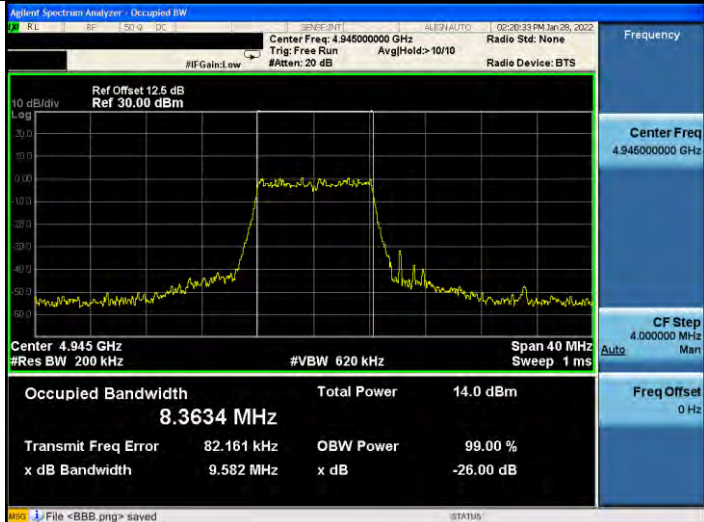
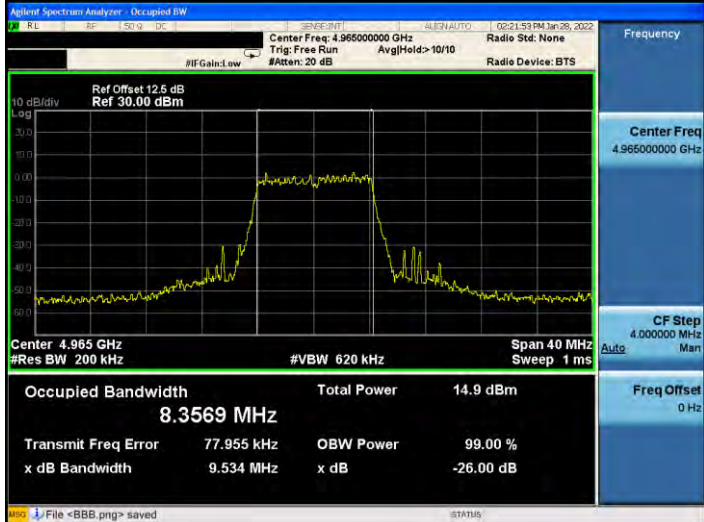
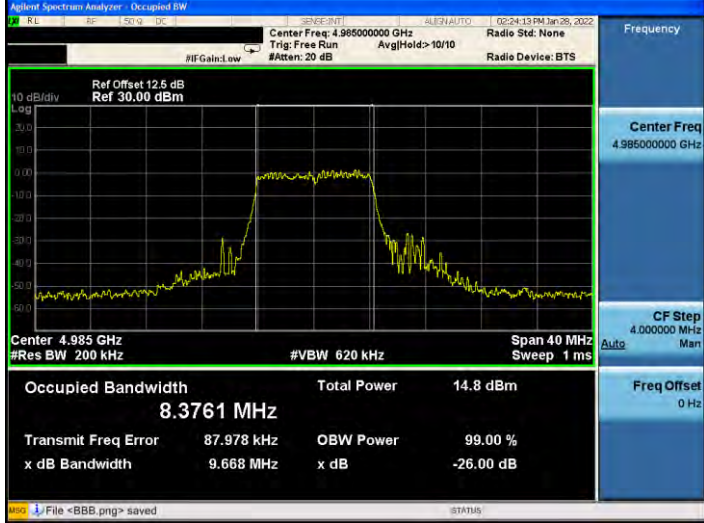
Mode 3: SISO_20 MHz Continuous TX mode (Legacy) _ANT-1		
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.9416 GHz -3.4004 dBm Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 16.796 MHz Total Power 20.6 dBm Transmit Freq Error 137.50 kHz OBW Power 99.00 % x dB Bandwidth 21.85 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.95688 GHz -3.1774 dBm Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 16.847 MHz Total Power 20.4 dBm Transmit Freq Error 164.16 kHz OBW Power 99.00 % x dB Bandwidth 21.11 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.9716 GHz -4.5081 dBm Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 16.915 MHz Total Power 21.3 dBm Transmit Freq Error 189.10 kHz OBW Power 99.00 % x dB Bandwidth 22.61 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

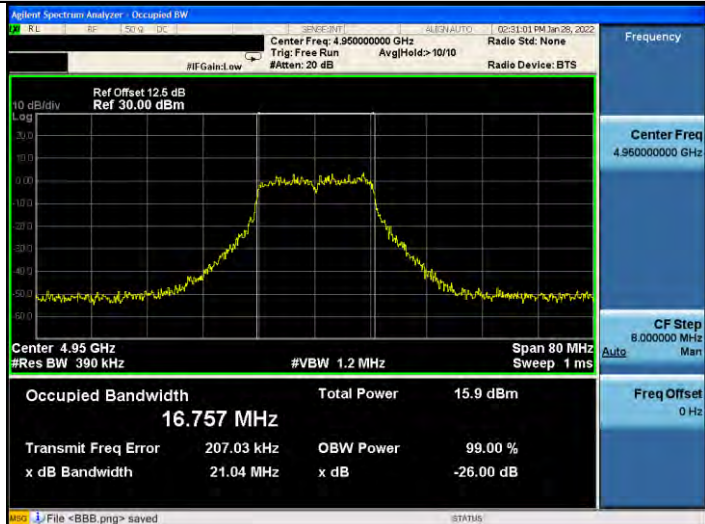
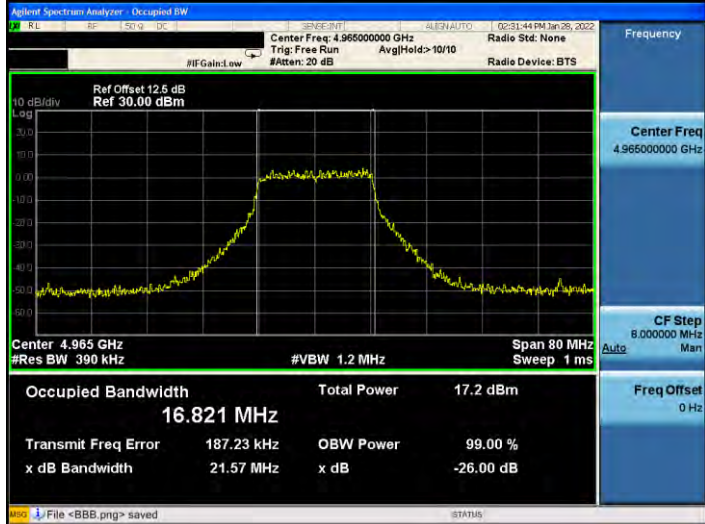
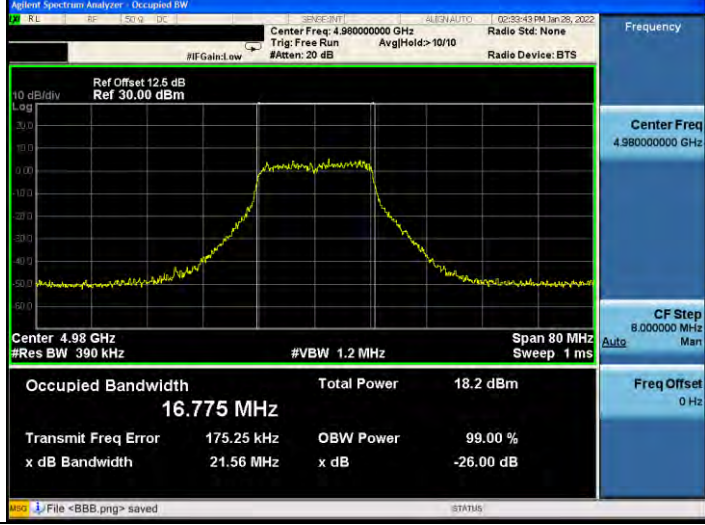
Mode 4: SISO_5 MHz Continuous TX mode_ANT-1		
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.942500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.94042 GHz -9.5196 dBm Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1933 MHz Total Power 14.5 dBm Transmit Freq Error 60.331 kHz OBW Power 99.00 % x dB Bandwidth 4.870 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.942500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.967500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.96546 GHz -8.7624 dBm Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1524 MHz Total Power 14.9 dBm Transmit Freq Error 55.229 kHz OBW Power 99.00 % x dB Bandwidth 4.831 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.987500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.98542 GHz -7.7553 dBm Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.2010 MHz Total Power 15.4 dBm Transmit Freq Error 51.968 kHz OBW Power 99.00 % x dB Bandwidth 4.871 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz

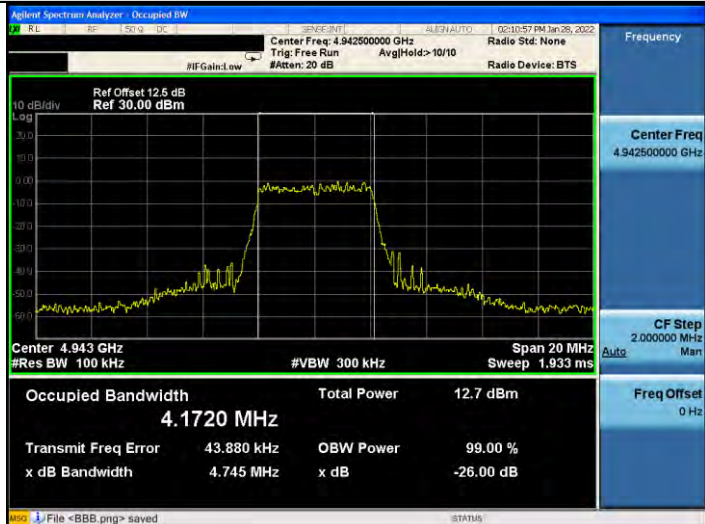
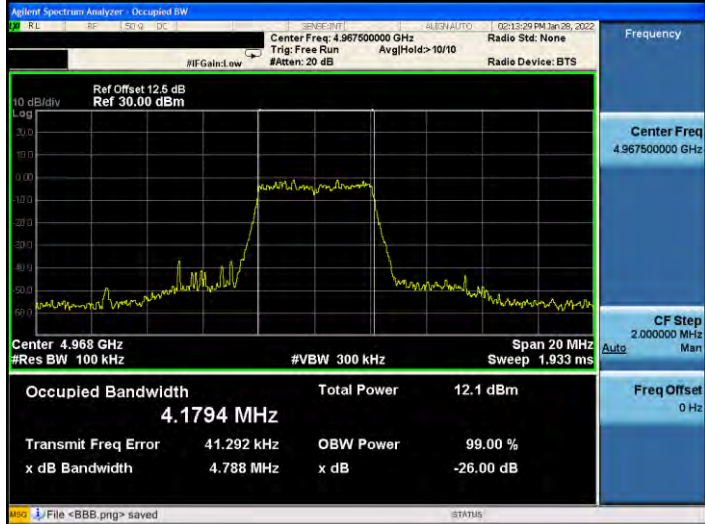
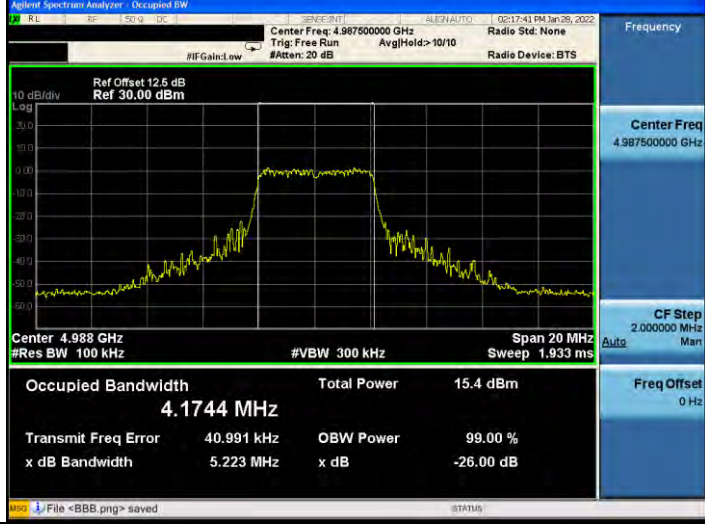
Mode 5: SISO_10 MHz Continuous TX mode_ANT-1	
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.94084 GHz -5.4089 dBm Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3993 MHz Total Power 17.8 dBm Transmit Freq Error 106.05 kHz OBW Power 99.00 % x dB Bandwidth 9.649 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.96084 GHz -7.1427 dBm Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3643 MHz Total Power 17.7 dBm Transmit Freq Error 98.059 kHz OBW Power 99.00 % x dB Bandwidth 9.649 MHz x dB -26.00 dB File <BBB.png> saved STATUS
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 20.00 dBm Mkr1 4.98088 GHz -2.9373 dBm Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3509 MHz Total Power 17.8 dBm Transmit Freq Error 74.008 kHz OBW Power 99.00 % x dB Bandwidth 9.719 MHz x dB -26.00 dB File <BBB.png> saved STATUS

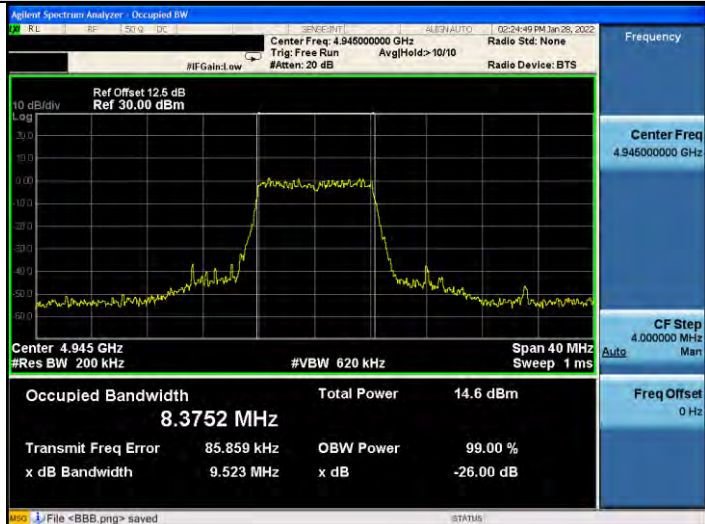
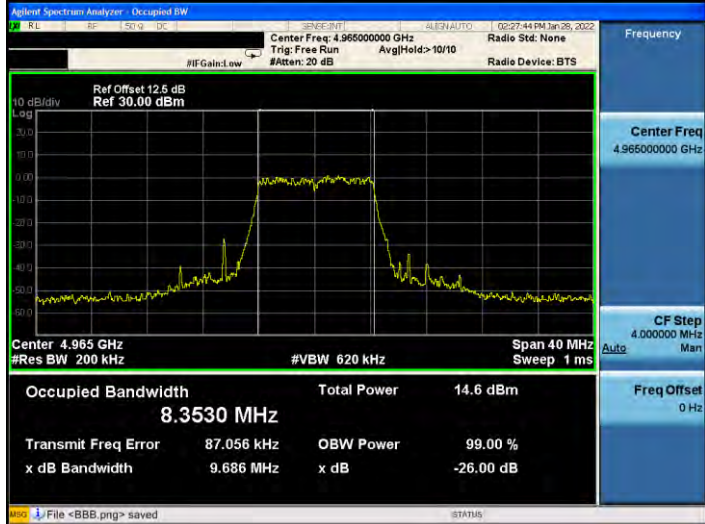
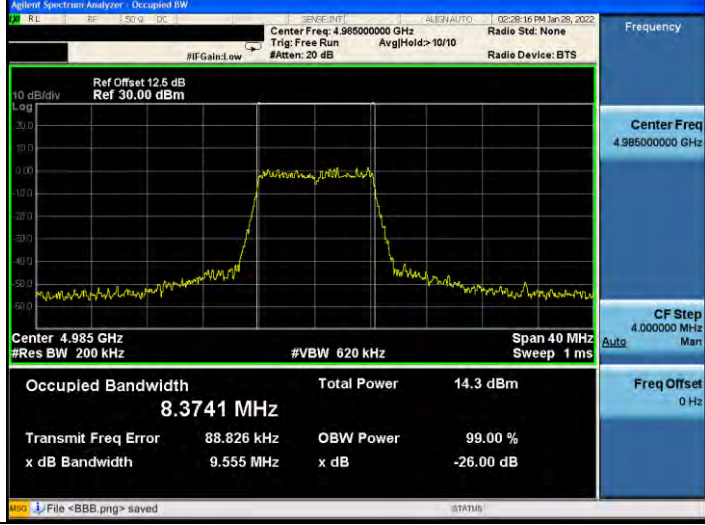
Mode 6: SISO_20 MHz Continuous TX mode_ANT-1		
4950 MHz	 Center Freq: 4.95000000 GHz Mkr1 4.94112 GHz -2.8448 dBm Ref Offset 12.5 dB Ref 20.00 dBm #IF Gain: Low #Atten: 20 dB Avg/Hold: 10/10 Radio Device: BTS Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.953 MHz Total Power 21.1 dBm Transmit Freq Error 186.75 kHz OBW Power 99.00 % x dB Bandwidth 22.98 MHz x dB -26.00 dB	Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Center Freq: 4.96500000 GHz Mkr1 4.9562 GHz -2.3216 dBm Ref Offset 12.5 dB Ref 20.00 dBm #IF Gain: Low #Atten: 20 dB Avg/Hold: 10/10 Radio Device: BTS Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.865 MHz Total Power 20.4 dBm Transmit Freq Error 169.53 kHz OBW Power 99.00 % x dB Bandwidth 22.93 MHz x dB -26.00 dB	Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Center Freq: 4.98000000 GHz Mkr1 4.97104 GHz -3.1989 dBm Ref Offset 12.5 dB Ref 20.00 dBm #IF Gain: Low #Atten: 20 dB Avg/Hold: 10/10 Radio Device: BTS Center 4.98 GHz #Res BW 750 kHz VBW 8 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.897 MHz Total Power 20.4 dBm Transmit Freq Error 131.72 kHz OBW Power 99.00 % x dB Bandwidth 22.55 MHz x dB -26.00 dB	Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz

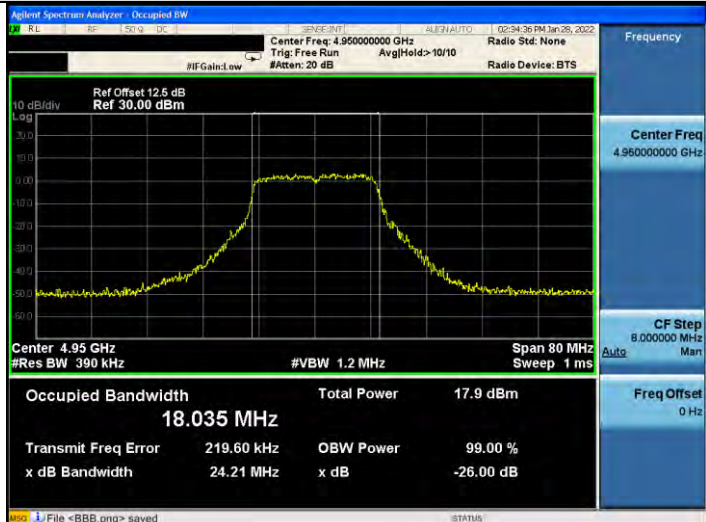
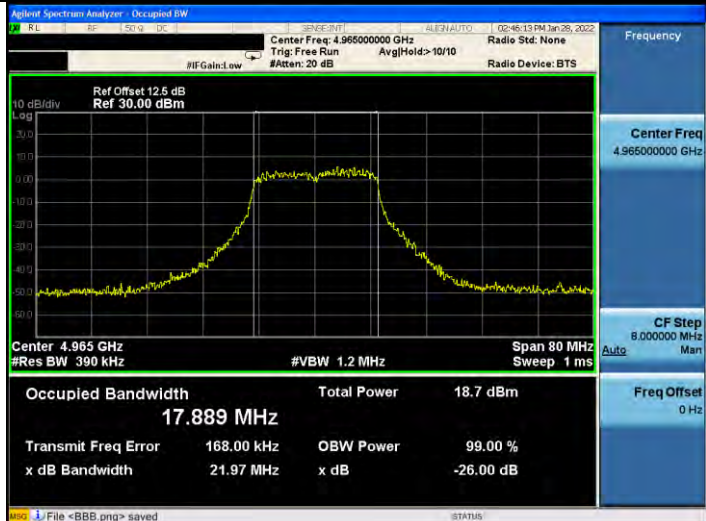
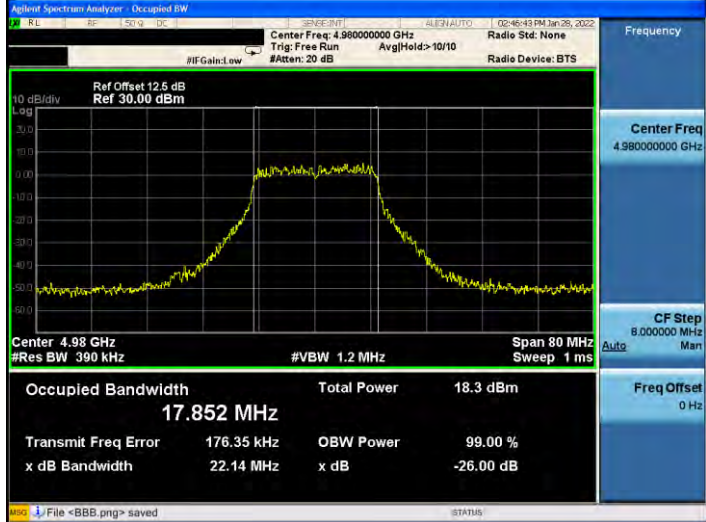
Mode 7: MIMO_5 MHz Continuous TX mode (Legacy) _ANT-1		
4942.5 MHz		Frequency Center Freq 4.942500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4967.5 MHz		Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4987.5 MHz		Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz

Mode 8: MIMO_10 MHz Continuous TX mode (Legacy) _ANT-1		
4945 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.94500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.945 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3634 MHz Total Power 14.0 dBm Transmit Freq Error 82.161 kHz OBW Power 99.00 % x dB Bandwidth 9.582 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.94500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.965 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3569 MHz Total Power 14.9 dBm Transmit Freq Error 77.955 kHz OBW Power 99.00 % x dB Bandwidth 9.534 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.96500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
4985 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98500000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.985 GHz #Res BW 200 kHz #VBW 620 kHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 8.3761 MHz Total Power 14.8 dBm Transmit Freq Error 87.978 kHz OBW Power 99.00 % x dB Bandwidth 9.668 MHz x dB -26.00 dB File <BBB.png> saved (STATUS)	Frequency Center Freq 4.98500000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

Mode 9: MIMO_20 MHz Continuous TX mode (Legacy) _ANT-1		
4950 MHz		Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Man Freq Offset 0 Hz
4965 MHz		Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Man Freq Offset 0 Hz
4980 MHz		Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Man Freq Offset 0 Hz

Mode 10: MIMO_5 MHz Continuous TX mode_ANT-1	
4942.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.942500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.943 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1720 MHz Total Power 12.7 dBm Transmit Freq Error 43.880 kHz OBW Power 99.00 % x dB Bandwidth 4.745 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.942500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4967.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.967500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.968 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1794 MHz Total Power 12.1 dBm Transmit Freq Error 41.292 kHz OBW Power 99.00 % x dB Bandwidth 4.788 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.967500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz
4987.5 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.987500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div L 9g Center 4.988 GHz #Res BW 100 kHz #VBW 300 kHz Span 20 MHz Sweep 1.933 ms Occupied Bandwidth 4.1744 MHz Total Power 15.4 dBm Transmit Freq Error 40.991 kHz OBW Power 99.00 % x dB Bandwidth 5.223 MHz x dB -26.00 dB File <BBB.png> saved (STATUS) Frequency Center Freq 4.987500000 GHz CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz

Mode 11: MIMO_10 MHz Continuous TX mode_ANT-1	
4945 MHz	 Center Freq: 4.94500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.3752 MHz Total Power: 14.6 dBm Transmit Freq Error: 85.859 kHz OBW Power: 99.00 % x dB Bandwidth: 9.523 MHz x dB: -26.00 dB
4965 MHz	 Center Freq: 4.96500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.3530 MHz Total Power: 14.6 dBm Transmit Freq Error: 87.056 kHz OBW Power: 99.00 % x dB Bandwidth: 9.686 MHz x dB: -26.00 dB
4985 MHz	 Center Freq: 4.98500000 GHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 8.3741 MHz Total Power: 14.3 dBm Transmit Freq Error: 88.826 kHz OBW Power: 99.00 % x dB Bandwidth: 9.555 MHz x dB: -26.00 dB

Mode 12: MIMO_20 MHz Continuous TX mode_ANT-1	
4950 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.95000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.95 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 18.035 MHz Total Power 17.9 dBm Transmit Freq Error 219.60 kHz OBW Power 99.00 % x dB Bandwidth 24.21 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.95000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4965 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.96500000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.965 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.889 MHz Total Power 18.7 dBm Transmit Freq Error 168.00 kHz OBW Power 99.00 % x dB Bandwidth 21.97 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.96500000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz
4980 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 4.98000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 12.5 dB Ref 30.00 dBm 10 dB/div Center 4.98 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 17.852 MHz Total Power 18.3 dBm Transmit Freq Error 176.35 kHz OBW Power 99.00 % x dB Bandwidth 22.14 MHz x dB -26.00 dB File <BBB.png> saved Frequency Center Freq 4.98000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz