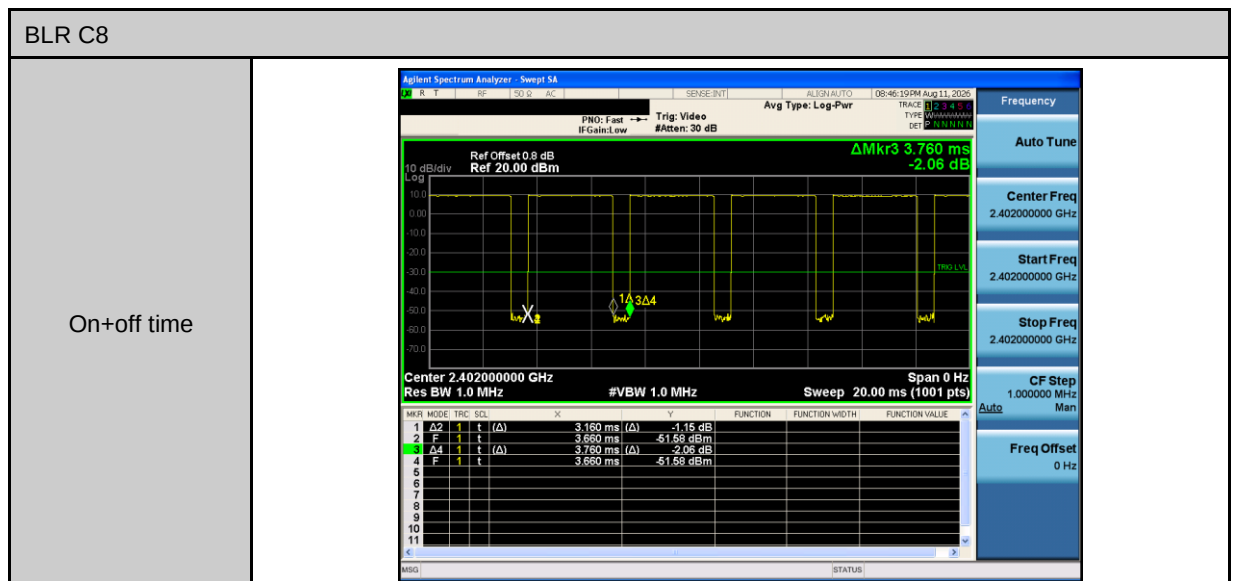
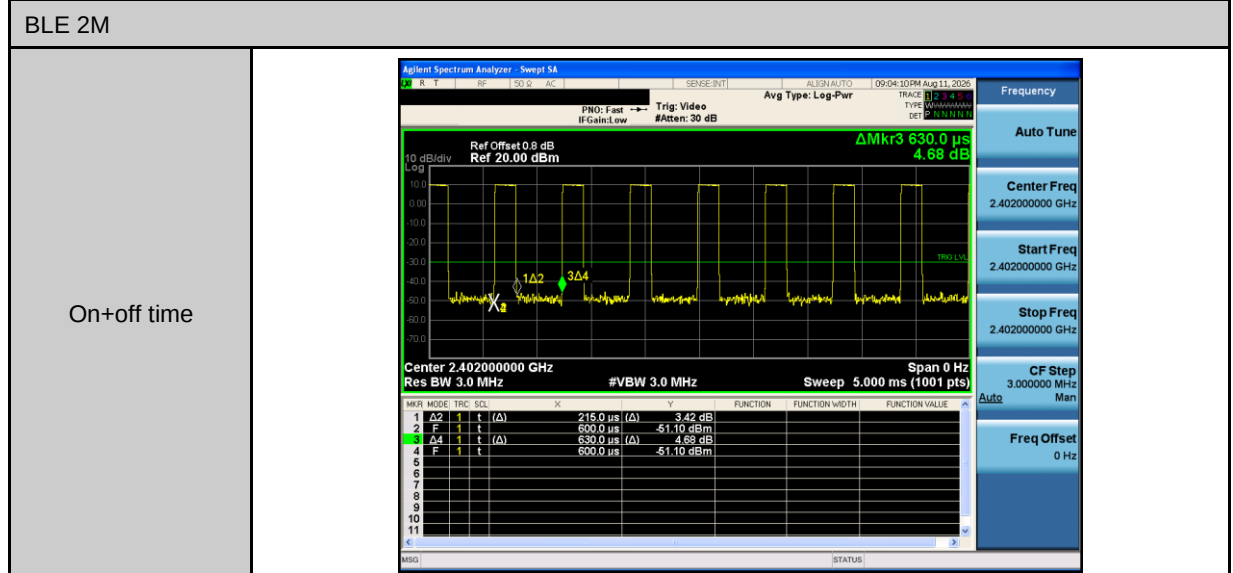


Appendix B. Test Plots

Duty cycle

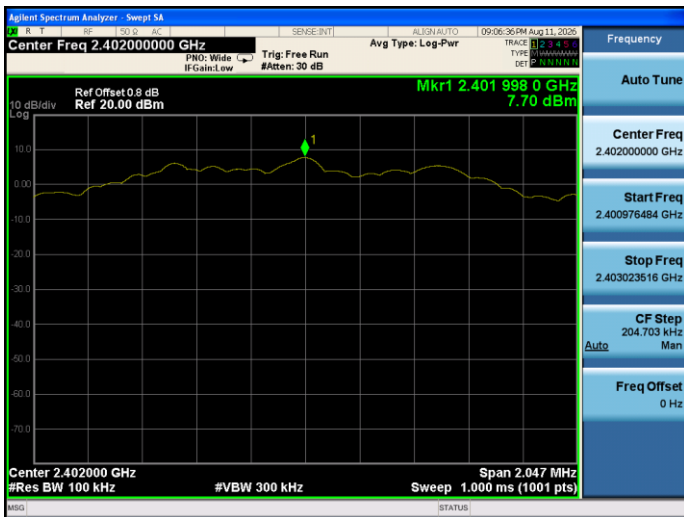
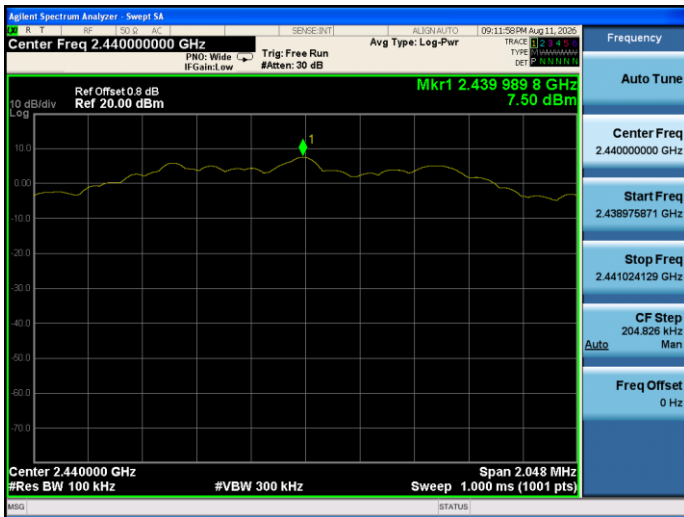
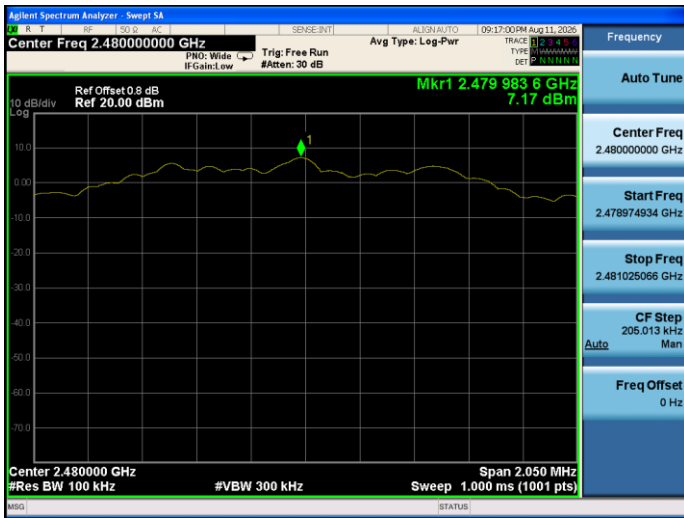


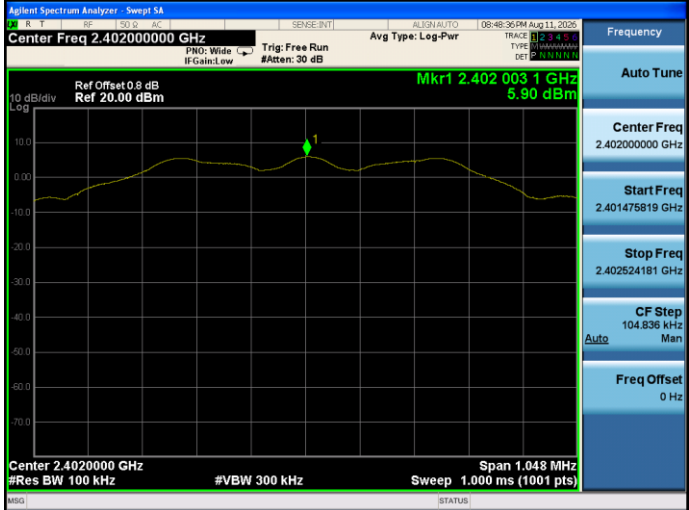
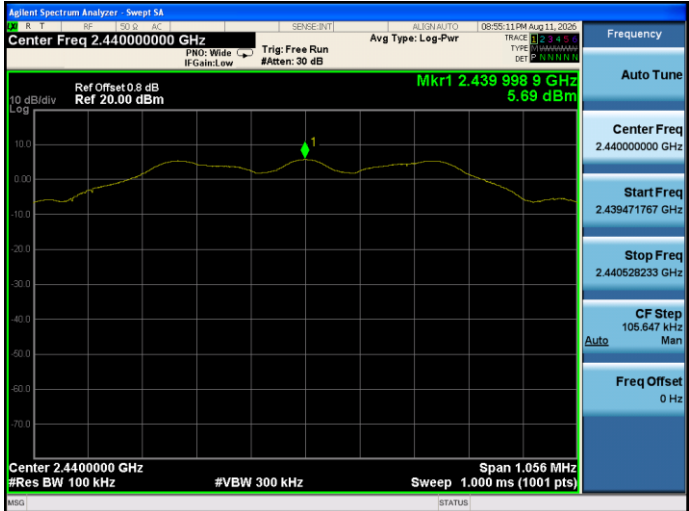
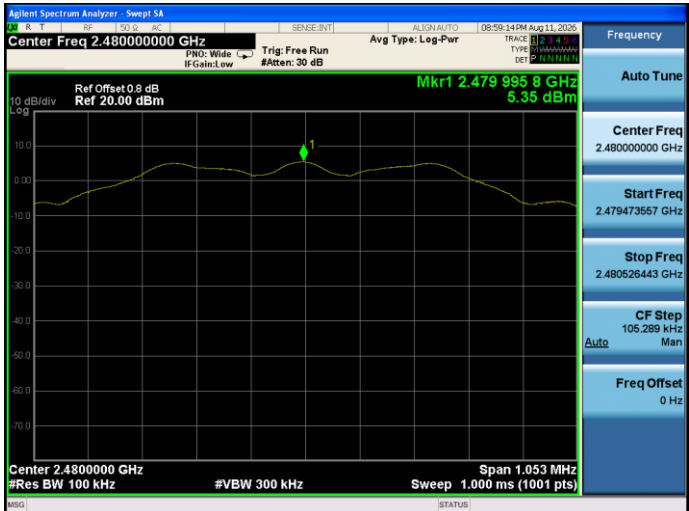
Out of Band Conducted Spurious Emission

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Low ch	Agilent Spectrum Analyzer - Sweep SA Center Freq 12.515000000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr2 3.2024 GHz -44.70 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (40001 pts) <table><tr><th>MARKER</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4015 GHz</td><td>6.02 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>3.2024 GHz</td><td>-44.70 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Frequency Auto Tune Center Freq 12.515000000 GHz Start Freq 30.000000 MHz Stop Freq 25.000000000 GHz CF Step 2.497000000 GHz Man Freq Offset 0 Hz	MARKER	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4015 GHz	6.02 dBm				2	N	1	f	3.2024 GHz	-44.70 dBm				3									4									5									6									7									8									9									10									11								
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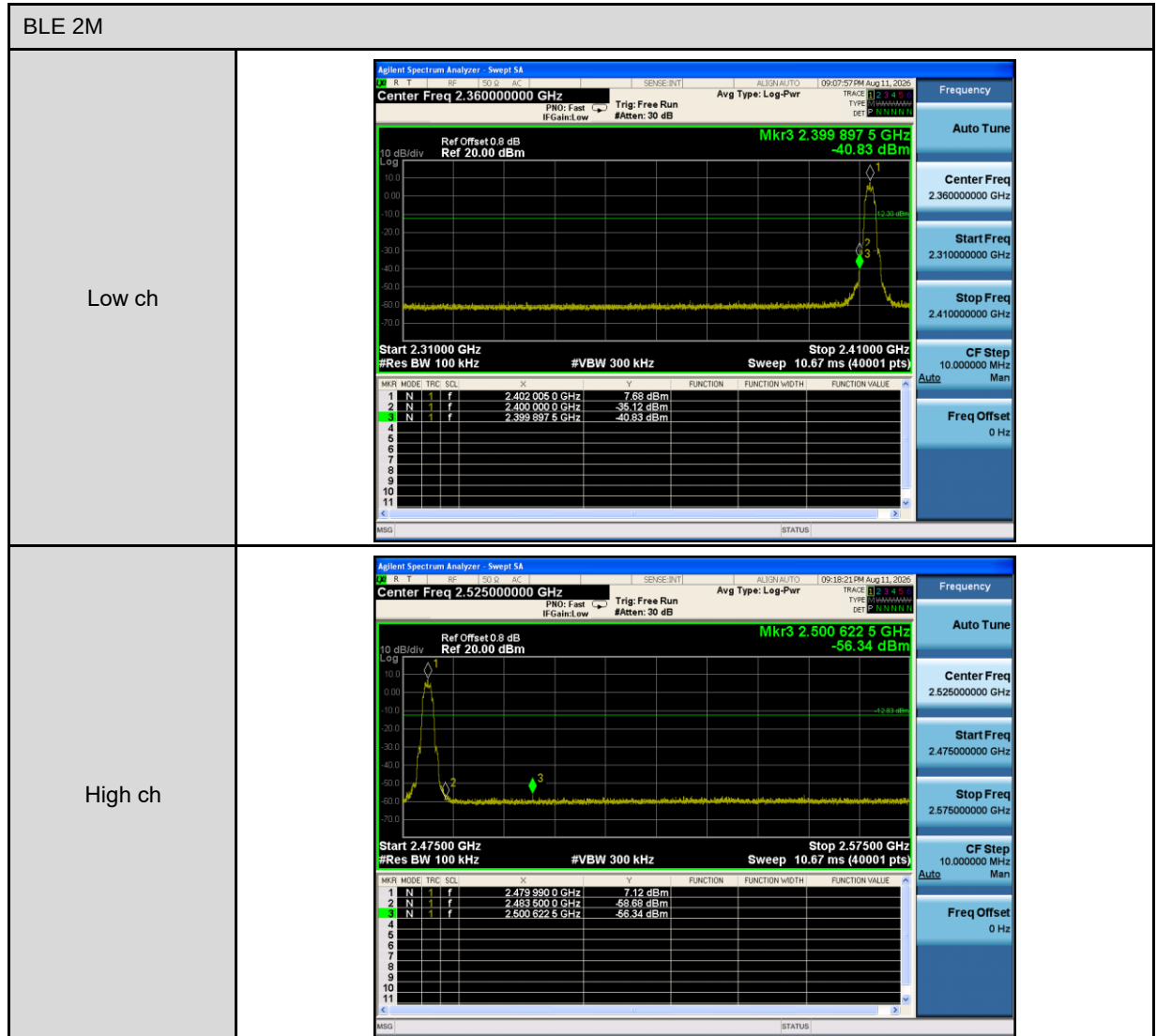
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Reference level

BLE 2M	
Low ch	
Mid ch	
High ch	

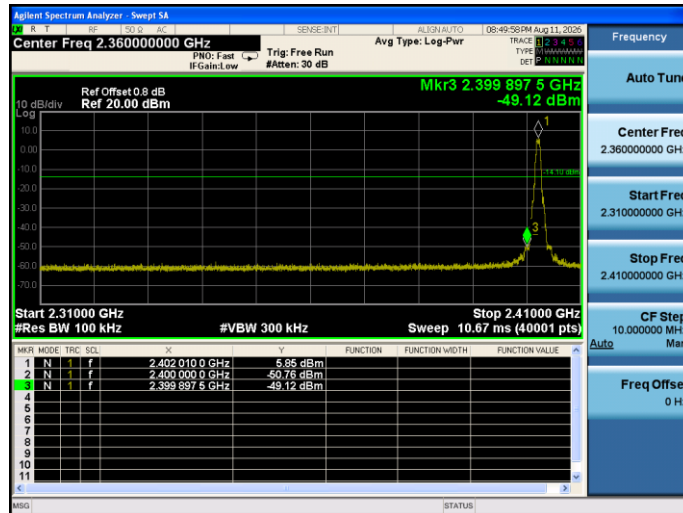
BLR C8	
Low ch	
Mid ch	
High ch	

Conducted Band Edge

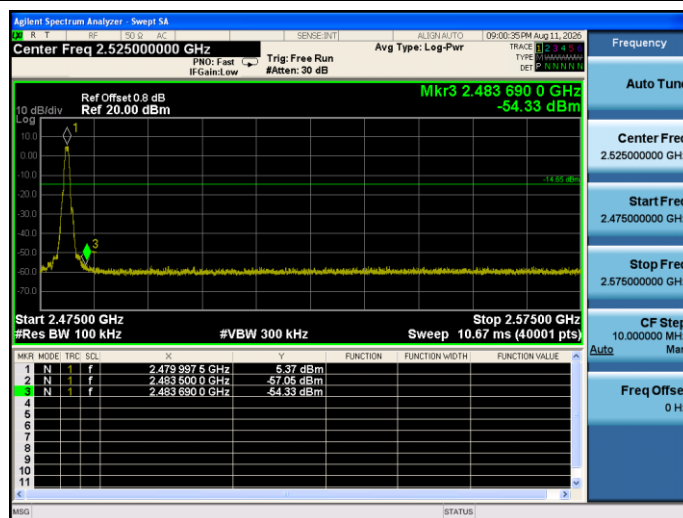


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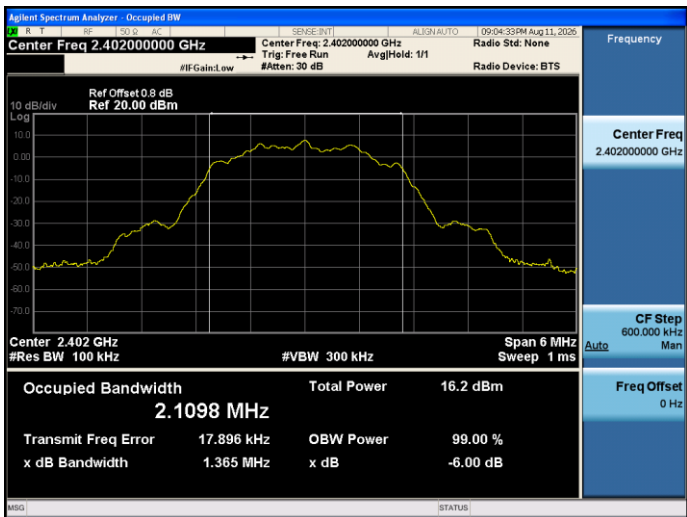
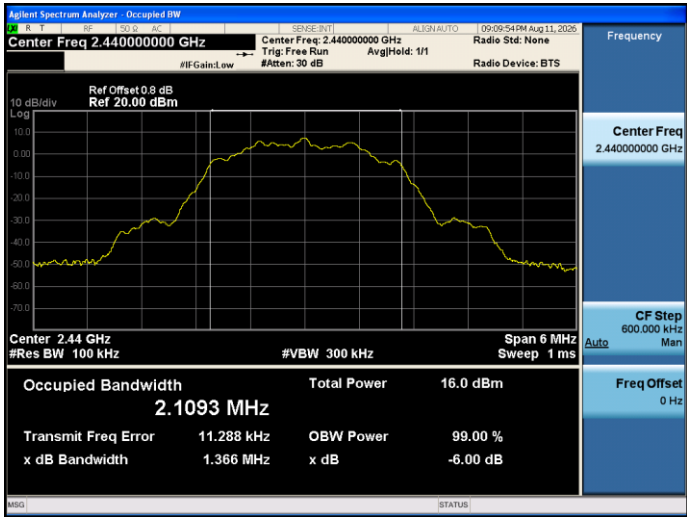
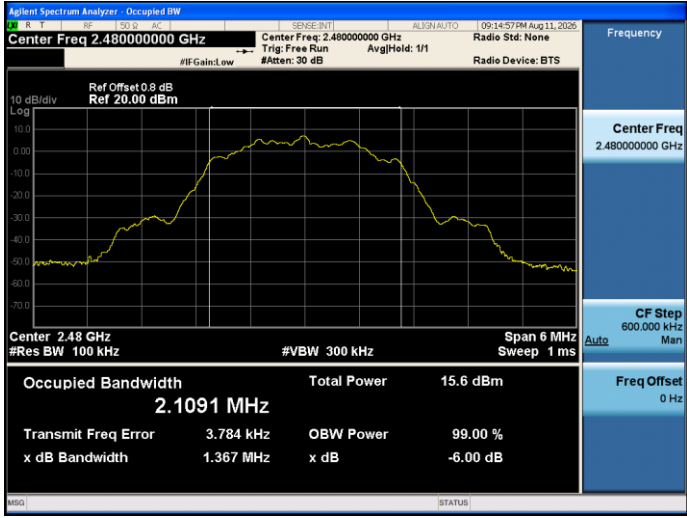
Low ch

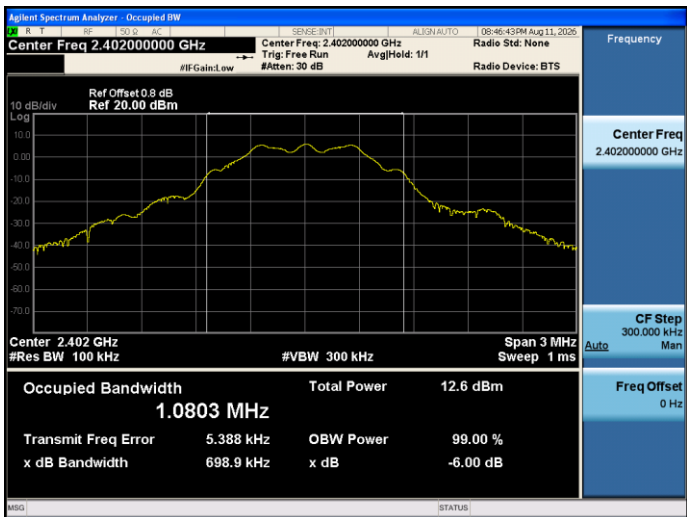
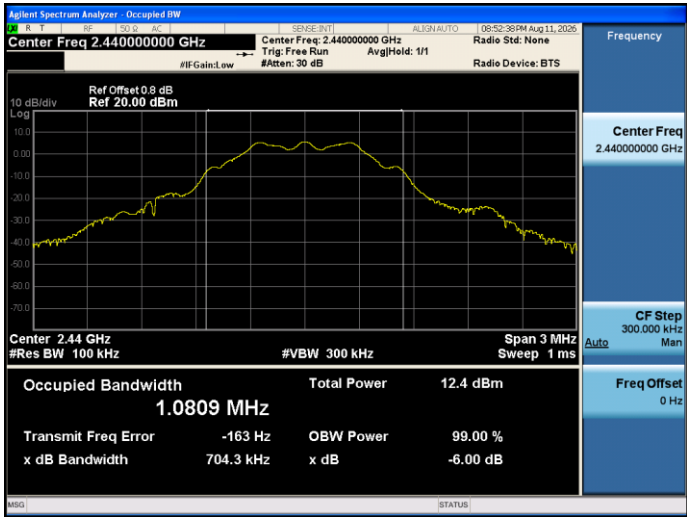
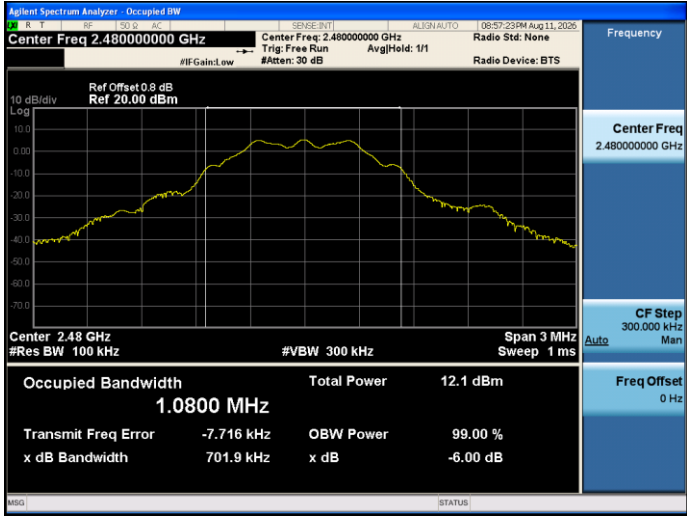


High ch

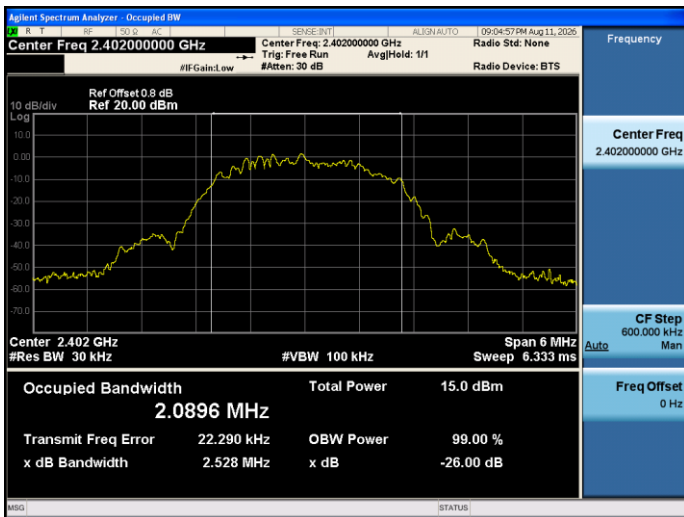
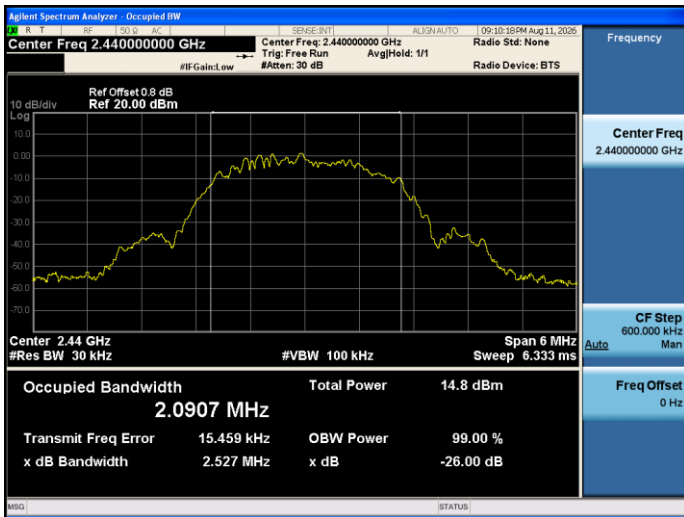
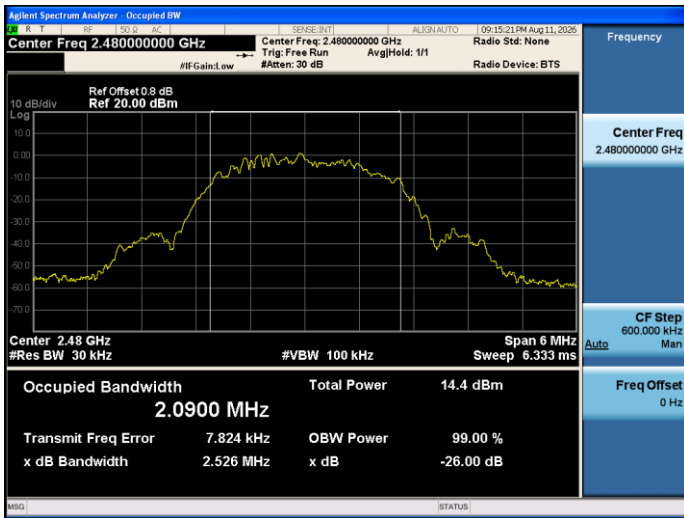


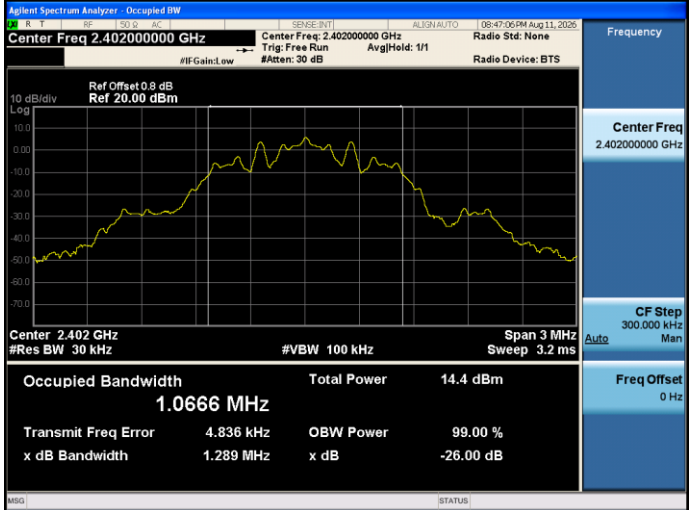
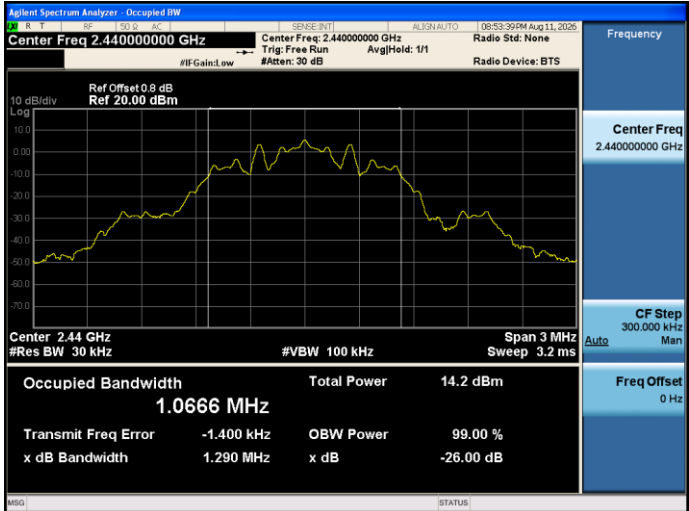
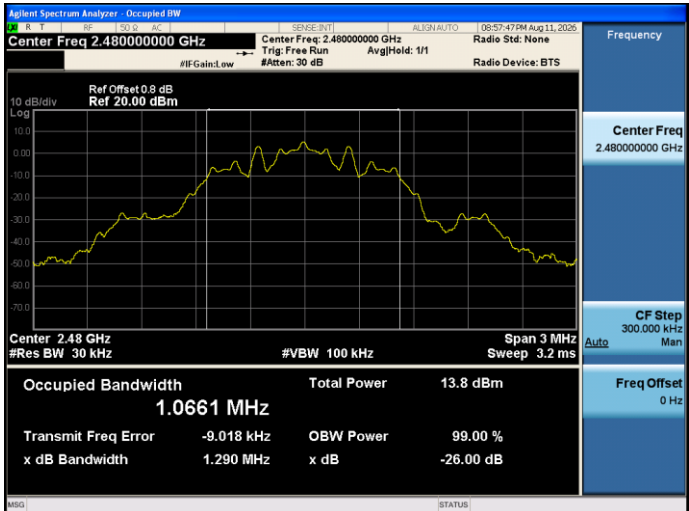
6 dB Bandwidth

BLE 2M	
Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 6 MHz Sweep 1 ms Occupied Bandwidth 2.1098 MHz Total Power 16.2 dBm Transmit Freq Error 17.896 kHz OBW Power 99.00 % x dB Bandwidth 1.365 MHz x dB -6.00 dB
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.440000000 GHz Center Freq: 2.440000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 6 MHz Sweep 1 ms Occupied Bandwidth 2.1093 MHz Total Power 16.0 dBm Transmit Freq Error 11.288 kHz OBW Power 99.00 % x dB Bandwidth 1.366 MHz x dB -6.00 dB
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 6 MHz Sweep 1 ms Occupied Bandwidth 2.1091 MHz Total Power 15.6 dBm Transmit Freq Error 3.784 kHz OBW Power 99.00 % x dB Bandwidth 1.367 MHz x dB -6.00 dB

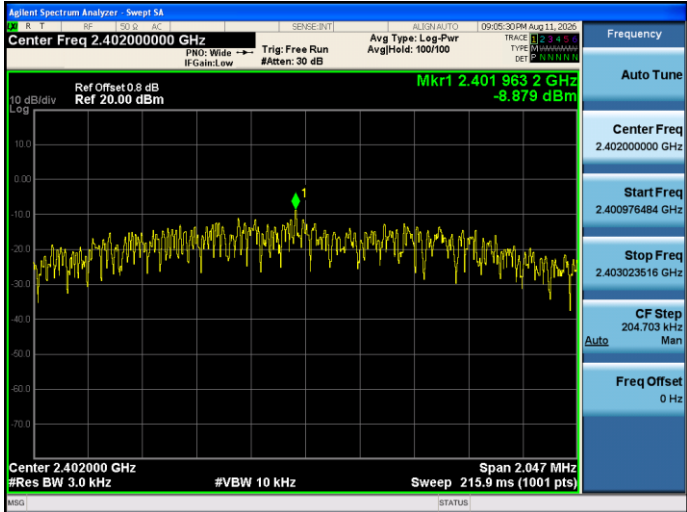
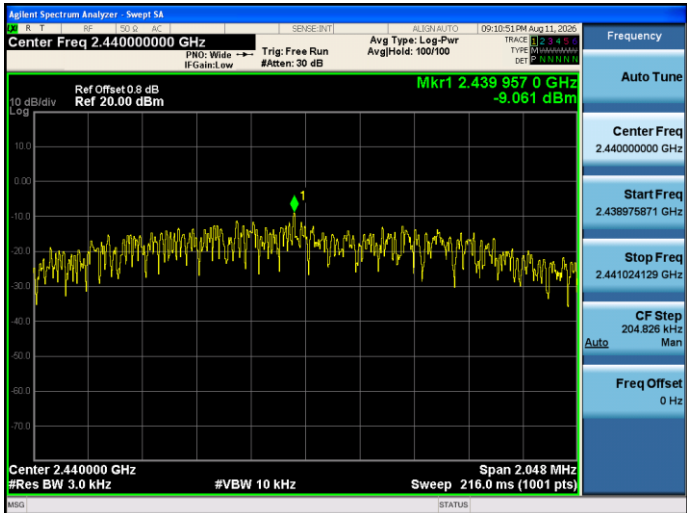
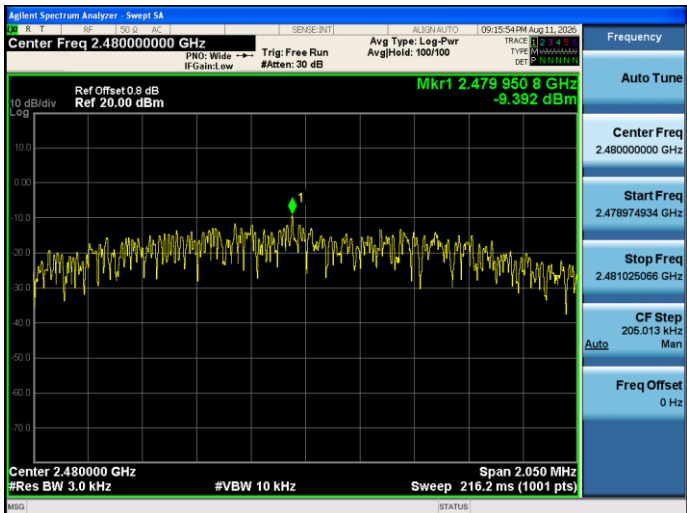
BLR C8	
Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms Occupied Bandwidth 1.0803 MHz Total Power 12.6 dBm Transmit Freq Error 5.388 kHz OBW Power 99.00 % x dB Bandwidth 698.9 kHz x dB -6.00 dB
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.440000000 GHz Center Freq: 2.440000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms Occupied Bandwidth 1.0809 MHz Total Power 12.4 dBm Transmit Freq Error -163 Hz OBW Power 99.00 % x dB Bandwidth 704.3 kHz x dB -6.00 dB
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms Occupied Bandwidth 1.0800 MHz Total Power 12.1 dBm Transmit Freq Error -7.716 kHz OBW Power 99.00 % x dB Bandwidth 701.9 kHz x dB -6.00 dB

99 % Occupied Bandwidth

BLE 2M	
Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm 10 dB/div Log Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 6 MHz Sweep 6.333 ms Occupied Bandwidth 2.0896 MHz Total Power 15.0 dBm Transmit Freq Error 22.290 kHz OBW Power 99.00 % x dB Bandwidth 2.528 MHz x dB -26.00 dB Frequency Center Freq 2.402000000 GHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz MSG STATUS
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.440000000 GHz Center Freq: 2.440000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm 10 dB/div Log Center 2.44 GHz #Res BW 30 kHz #VBW 100 kHz Span 6 MHz Sweep 6.333 ms Occupied Bandwidth 2.0907 MHz Total Power 14.8 dBm Transmit Freq Error 15.459 kHz OBW Power 99.00 % x dB Bandwidth 2.527 MHz x dB -26.00 dB Frequency Center Freq 2.440000000 GHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz MSG STATUS
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm 10 dB/div Log Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 6 MHz Sweep 6.333 ms Occupied Bandwidth 2.0900 MHz Total Power 14.4 dBm Transmit Freq Error 7.824 kHz OBW Power 99.00 % x dB Bandwidth 2.526 MHz x dB -26.00 dB Frequency Center Freq 2.480000000 GHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz MSG STATUS

BLR C8	
Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.0666 MHz Total Power 14.4 dBm Transmit Freq Error 4.836 kHz OBW Power 99.00 % x dB Bandwidth 1.289 MHz x dB -26.00 dB
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.440000000 GHz Center Freq: 2.440000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.44 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.0666 MHz Total Power 14.2 dBm Transmit Freq Error -1.400 kHz OBW Power 99.00 % x dB Bandwidth 1.290 MHz x dB -26.00 dB
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 0.8 dB Ref 20.00 dBm Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.0661 MHz Total Power 13.8 dBm Transmit Freq Error -9.018 kHz OBW Power 99.00 % x dB Bandwidth 1.290 MHz x dB -26.00 dB

Power Density

BLE 2M	
Low ch	
Mid ch	
High ch	

BLR C8	
Low ch	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.40200000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr1 2.4022558 GHz 3.106 dBm Span 1.048 MHz Res BW 3.0 kHz VBW 10 kHz Sweep 110.6 ms (1001 pts)
Mid ch	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.44000000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr1 2.4397498 GHz 2.911 dBm Span 1.056 MHz Res BW 3.0 kHz VBW 10 kHz Sweep 111.4 ms (1001 pts)
High ch	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.48000000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr1 2.4797431 GHz 2.573 dBm Span 1.053 MHz Res BW 3.0 kHz VBW 10 kHz Sweep 111.1 ms (1001 pts)