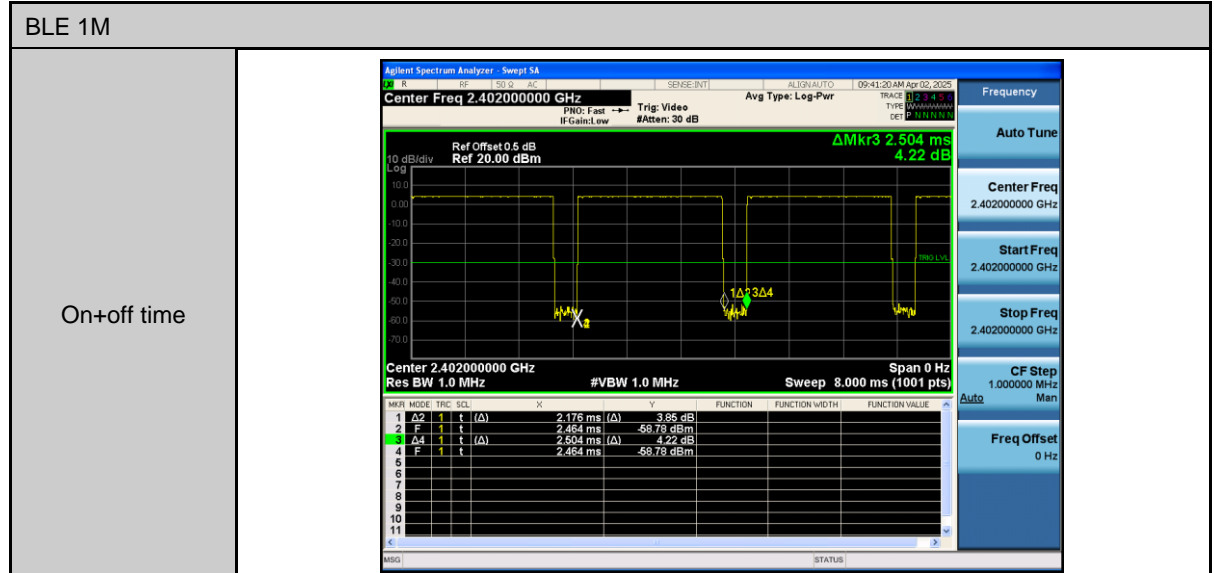
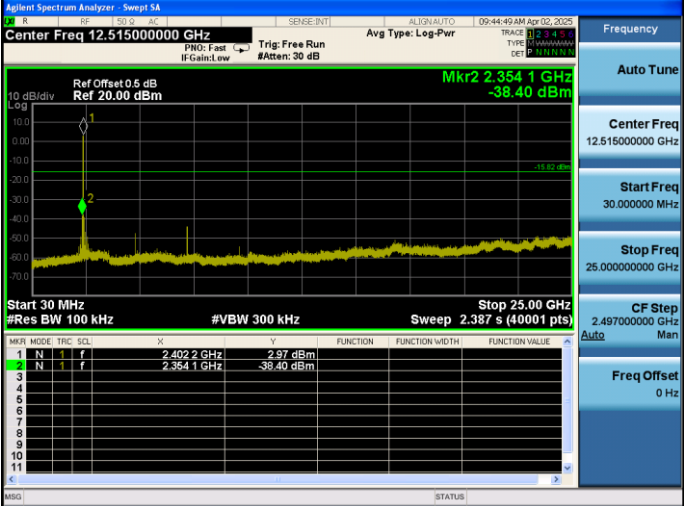
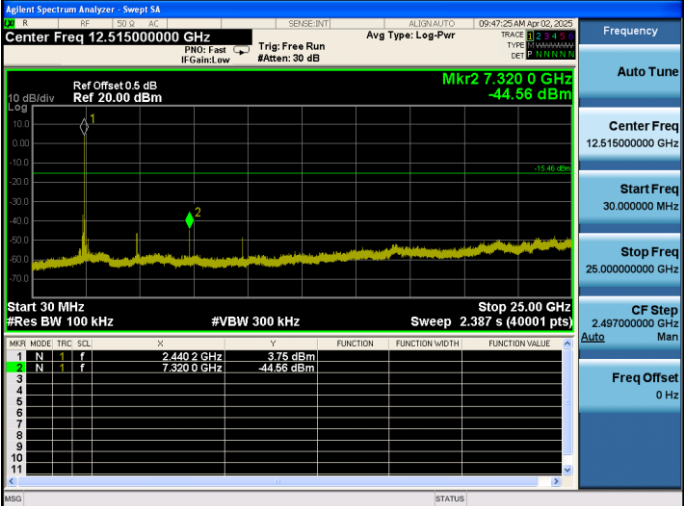
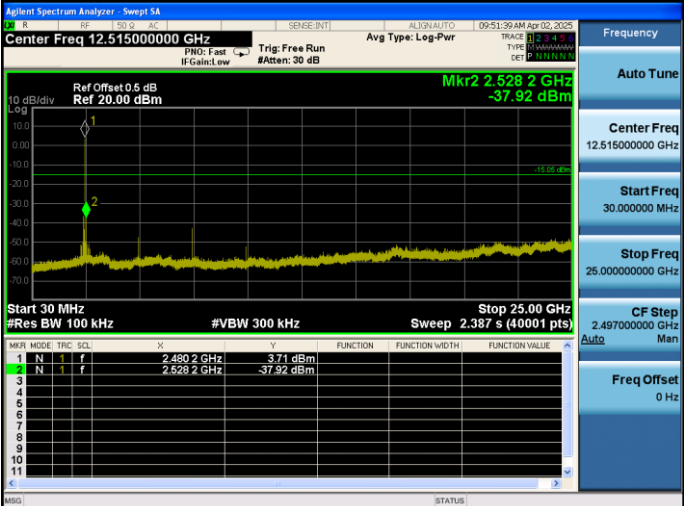


Appendix B. Test Plots




Duty cycle



Out of Band Conducted Spurious Emission

<p>BLE 1M</p> <p>Low ch</p>	
<p>Mid ch</p>	
<p>High ch</p>	

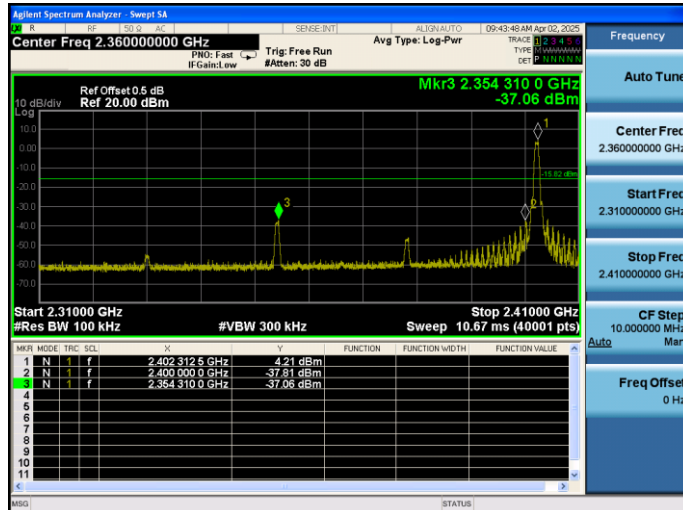
Reference level

<p>BLE 1M</p> <p>Low ch</p>	
<p>Mid ch</p>	
<p>High ch</p>	

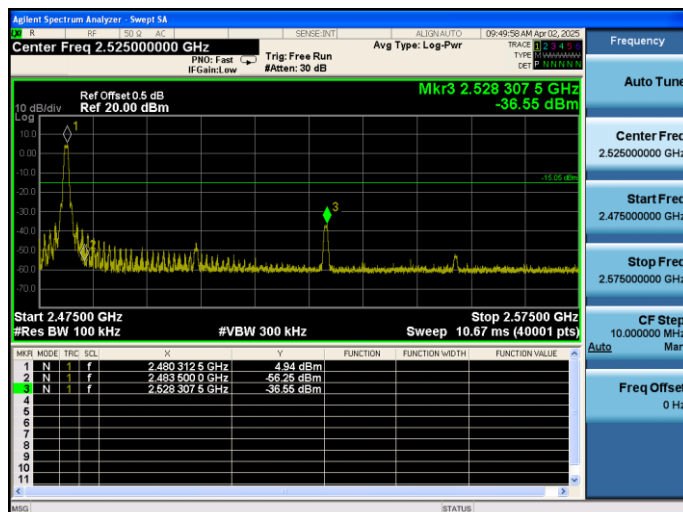
Conducted Band Edge

BLE 1M

Low ch



High ch



6 dB Bandwidth

BLE 1M	
Low ch	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.402000000 GHz</p> <p>Ref Offset: 0.5 dB, Ref: 20.00 dBm</p> <p>Occupied Bandwidth: 1.0462 MHz</p> <p>Total Power: 11.0 dBm</p> <p>Transmit Freq Error: 61.206 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 669.1 kHz</p> <p>x dB: -6.00 dB</p>
Mid ch	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.440000000 GHz</p> <p>Ref Offset: 0.5 dB, Ref: 20.00 dBm</p> <p>Occupied Bandwidth: 1.0457 MHz</p> <p>Total Power: 11.3 dBm</p> <p>Transmit Freq Error: 61.206 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 670.3 kHz</p> <p>x dB: -6.00 dB</p>
High ch	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.480000000 GHz</p> <p>Ref Offset: 0.5 dB, Ref: 20.00 dBm</p> <p>Occupied Bandwidth: 1.0497 MHz</p> <p>Total Power: 11.8 dBm</p> <p>Transmit Freq Error: 62.958 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 669.7 kHz</p> <p>x dB: -6.00 dB</p>

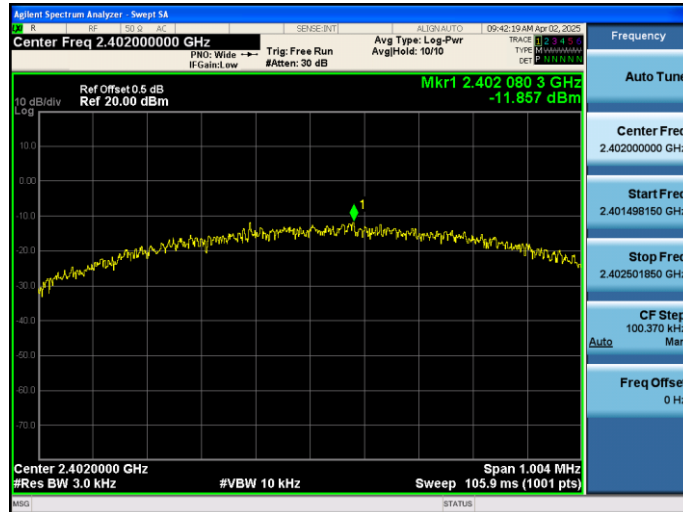
99 % Occupied Bandwidth

BLE 1M	
Low ch	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.402000000 GHz</p> <p>Center Freq: 2.402000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Device: BTS</p> <p>Ref Offset 0.5 dB</p> <p>Ref 20.00 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.402 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 3 MHz</p> <p>Sweep 3.2 ms</p> <p>Occupied Bandwidth 1.0333 MHz</p> <p>Total Power 11.5 dBm</p> <p>Transmit Freq Error 65.452 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.267 MHz</p> <p>x dB Bandwidth -26.00 dB</p> <p>Frequency</p> <p>Center Freq 2.402000000 GHz</p> <p>CF Step 300.000 kHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
Mid ch	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.440000000 GHz</p> <p>Center Freq: 2.440000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Device: BTS</p> <p>Ref Offset 0.5 dB</p> <p>Ref 20.00 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.44 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 3 MHz</p> <p>Sweep 3.2 ms</p> <p>Occupied Bandwidth 1.0327 MHz</p> <p>Total Power 11.8 dBm</p> <p>Transmit Freq Error 66.758 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.267 MHz</p> <p>x dB Bandwidth -26.00 dB</p> <p>Frequency</p> <p>Center Freq 2.440000000 GHz</p> <p>CF Step 300.000 kHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
High ch	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.480000000 GHz</p> <p>Center Freq: 2.480000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Device: BTS</p> <p>Ref Offset 0.5 dB</p> <p>Ref 20.00 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.48 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 3 MHz</p> <p>Sweep 3.2 ms</p> <p>Occupied Bandwidth 1.0416 MHz</p> <p>Total Power 12.4 dBm</p> <p>Transmit Freq Error 65.947 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.273 MHz</p> <p>x dB Bandwidth -26.00 dB</p> <p>Frequency</p> <p>Center Freq 2.480000000 GHz</p> <p>CF Step 300.000 kHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>

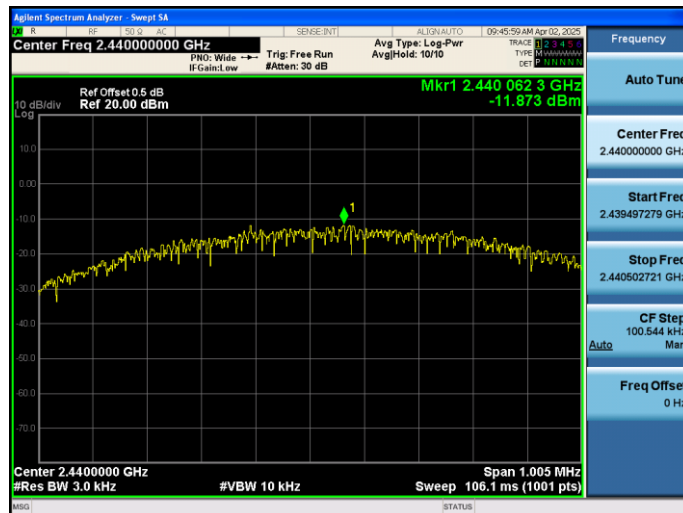
Power Density

BLE 1M

Low ch



Mid ch



High ch

