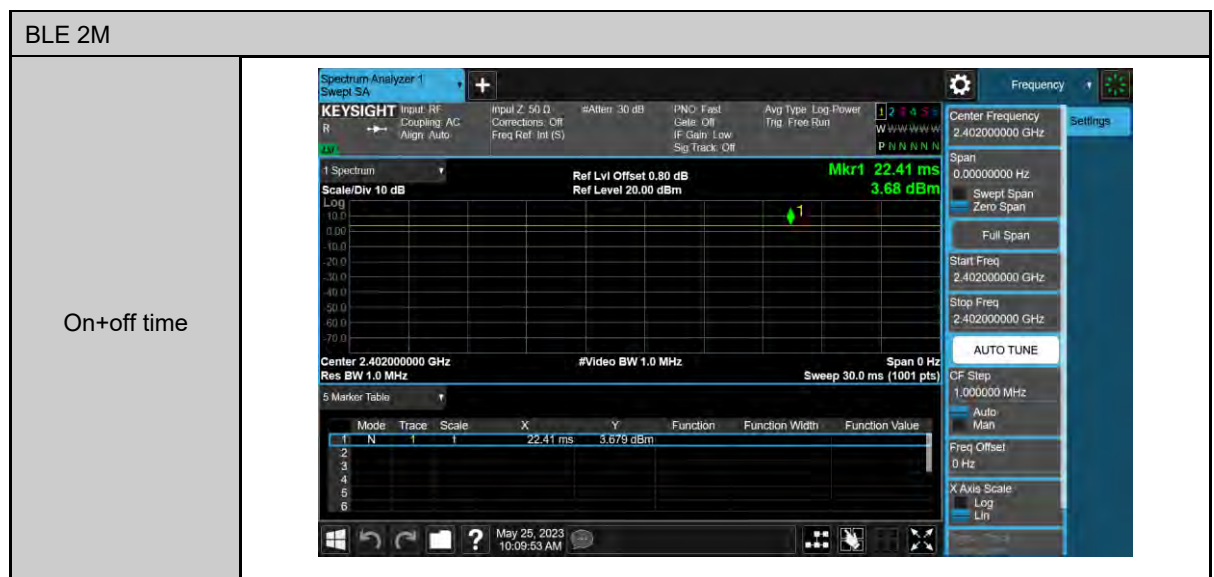
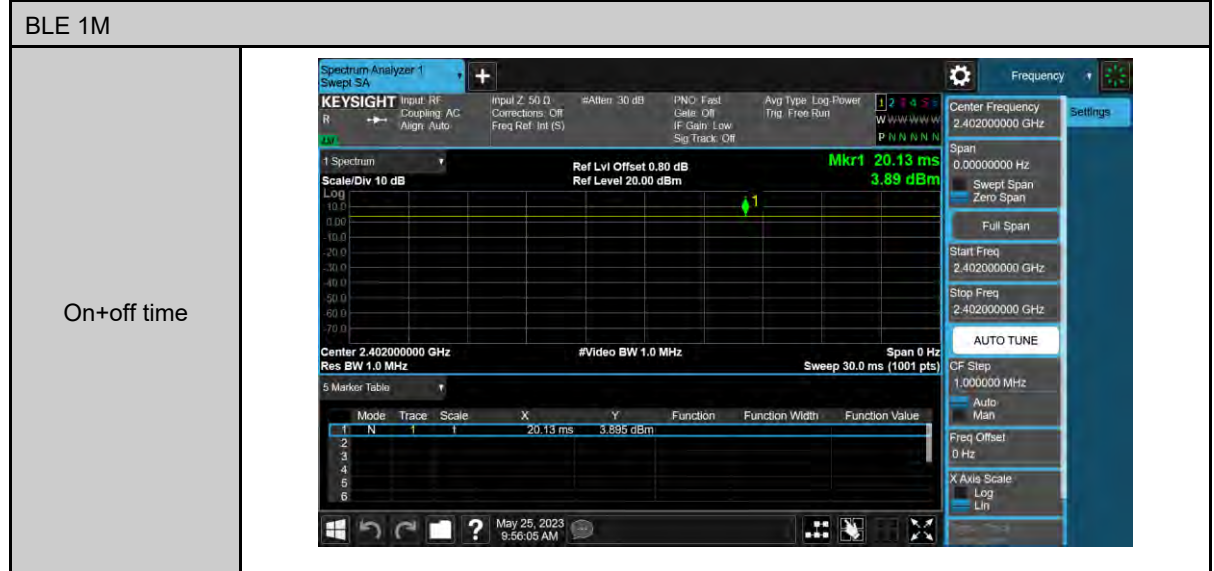


Appendix B. Test Plots

Duty cycle



Out of Band Conducted Spurious Emission

BLE 1M

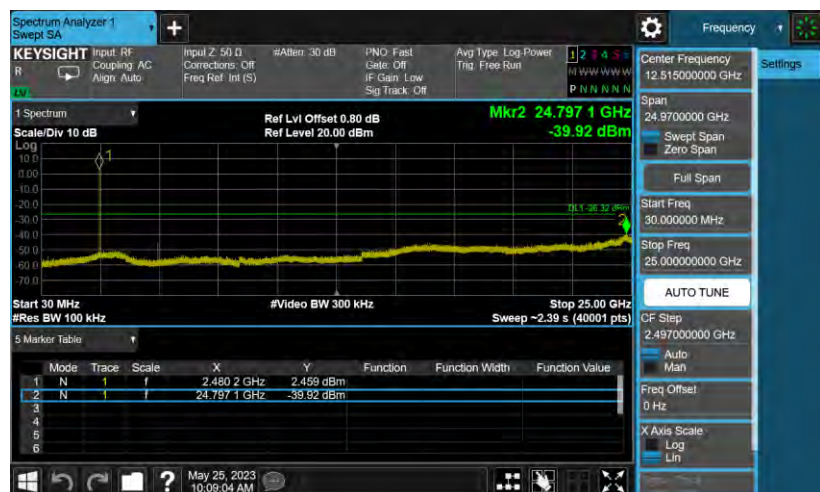
Low ch



Mid ch



High ch



BLE 2M

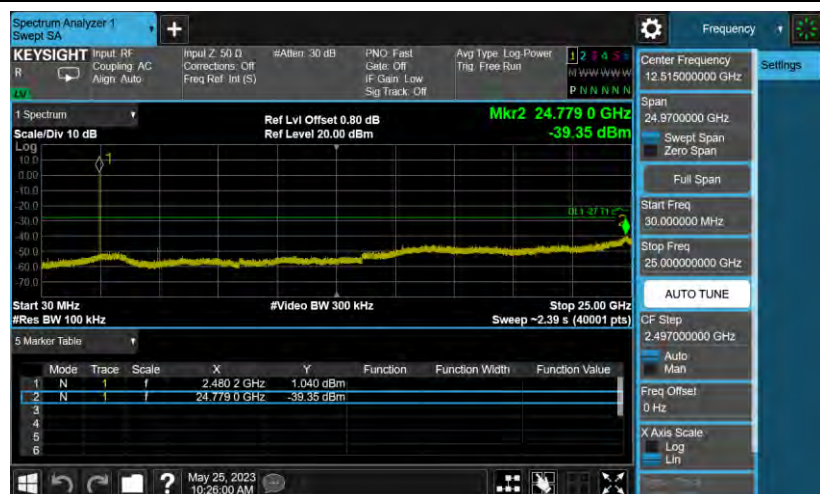
Low ch






Mid ch






High ch



Reference level

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

<p>BLE 2M</p> <p>Low ch</p>	
<p>Mid ch</p>	
<p>High ch</p>	

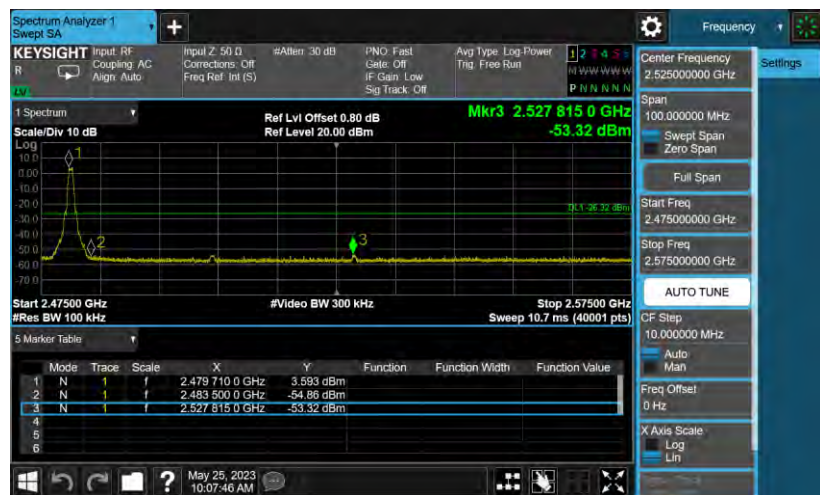
Conducted Band Edge

BLE 1M

Low ch



High ch





6 dB Bandwidth

BLE 1M

Low ch





Mid ch








High ch



<p>BLE 2M</p> <p>Low ch</p>	 <p> Spectrum Analyzer 1 Occupied BW </p> <p> KEYSIGHT Input: RF, Coupling: AC, Atten: 30 dB, Trig: Freq Run, Gate: Off, Ref: Gain Low, Center Freq: 2.40200000 GHz, Avg Hold: 1/1, Radio Sst: None </p> <p> 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm </p> <p> Center 2.402000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 6 MHz Sweep 1.00 ms (1001 pts) </p> <p> 2 Metrics Occupied Bandwidth: 2.0686 MHz Total Power: 12.7 dBm Transmit Freq Error: -44.174 kHz % of OBW Power: 99.00 % x dB Bandwidth: 1.439 MHz x dB: -6.00 dB </p> <p> May 25, 2023 10:10:37 AM </p>
<p>Mid ch</p>	 <p> Spectrum Analyzer 1 Occupied BW </p> <p> KEYSIGHT Input: RF, Coupling: AC, Atten: 30 dB, Trig: Freq Run, Gate: Off, Ref: Gain Low, Center Freq: 2.44000000 GHz, Avg Hold: 1/1, Radio Sst: None </p> <p> 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm </p> <p> Center 2.440000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 6 MHz Sweep 1.00 ms (1001 pts) </p> <p> 2 Metrics Occupied Bandwidth: 2.0810 MHz Total Power: 12.4 dBm Transmit Freq Error: -43.571 kHz % of OBW Power: 99.00 % x dB Bandwidth: 1.454 MHz x dB: -6.00 dB </p> <p> May 25, 2023 10:18:13 AM </p>
<p>High ch</p>	 <p> Spectrum Analyzer 1 Occupied BW </p> <p> KEYSIGHT Input: RF, Coupling: AC, Atten: 30 dB, Trig: Freq Run, Gate: Off, Ref: Gain Low, Center Freq: 2.48000000 GHz, Avg Hold: 1/1, Radio Sst: None </p> <p> 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm </p> <p> Center 2.480000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 6 MHz Sweep 1.00 ms (1001 pts) </p> <p> 2 Metrics Occupied Bandwidth: 2.0929 MHz Total Power: 12.5 dBm Transmit Freq Error: -47.022 kHz % of OBW Power: 99.00 % x dB Bandwidth: 1.474 MHz x dB: -6.00 dB </p> <p> May 25, 2023 10:21:49 AM </p>

99 % Occupied Bandwidth

<p>BLE 1M</p> <p>Low ch</p>	 <p>Center Frequency: 2.40200000 GHz Span: 3.0000 MHz CF Step: 300.000 kHz Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 1.0563 MHz Total Power: 13.2 dBm % of OBW Power: 99.0%</p>
<p>Mid ch</p>	 <p>Center Frequency: 2.44000000 GHz Span: 3.0000 MHz CF Step: 300.000 kHz Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 1.0579 MHz Total Power: 12.9 dBm % of OBW Power: 99.0%</p>
<p>High ch</p>	 <p>Center Frequency: 2.48000000 GHz Span: 3.0000 MHz CF Step: 300.000 kHz Freq Offset: 0 Hz</p> <p>Occupied Bandwidth: 1.0620 MHz Total Power: 13.0 dBm % of OBW Power: 99.0%</p>

BLE 2M	
Low ch	
Mid ch	
High ch	

Power Density

BLE 1M

Low ch


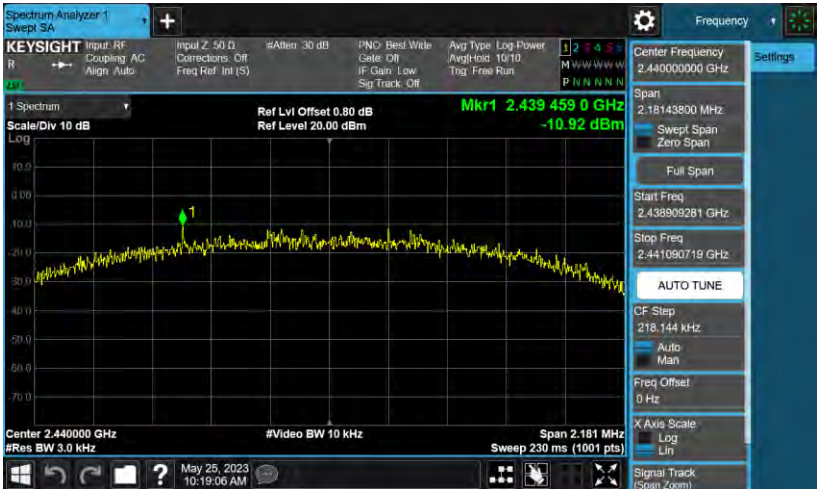


Mid ch



High ch



<p>BLE 2M</p> <p>Low ch</p>	
<p>Mid ch</p>	
<p>High ch</p>	