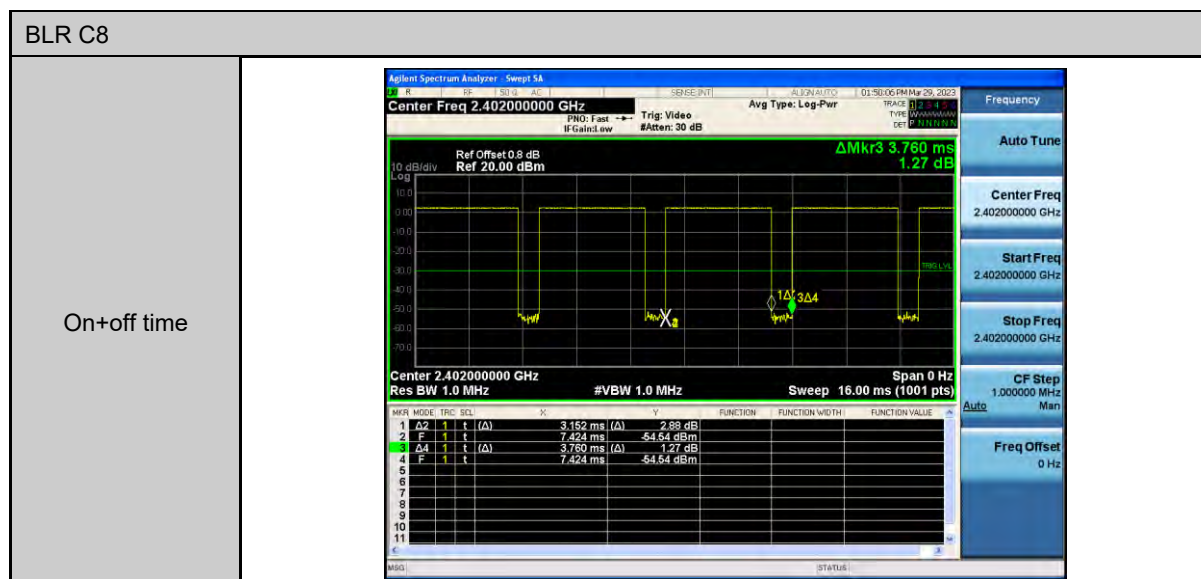
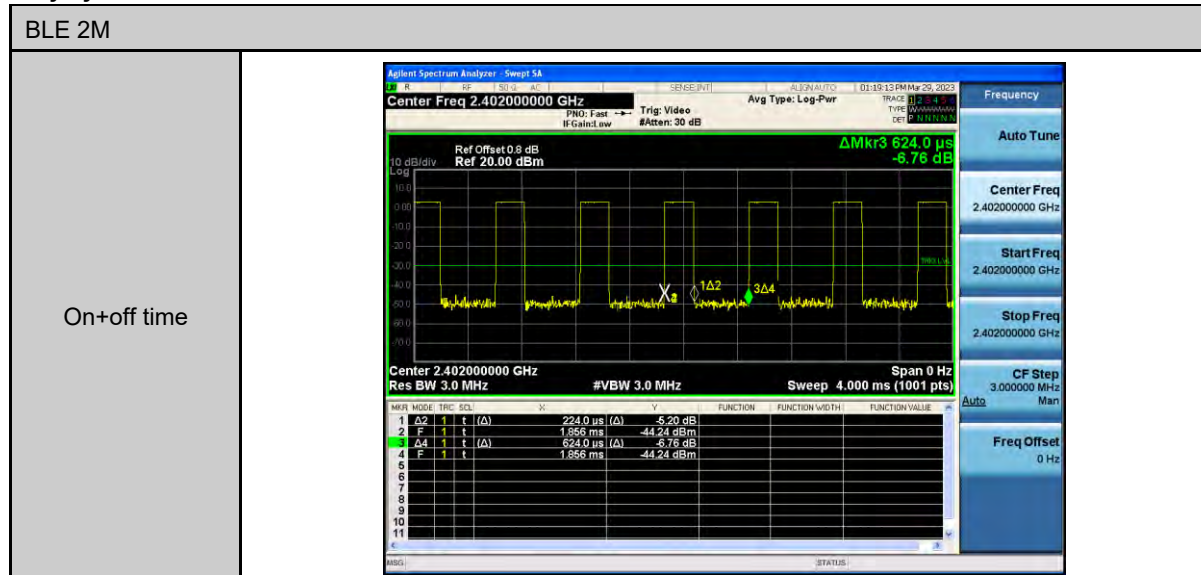
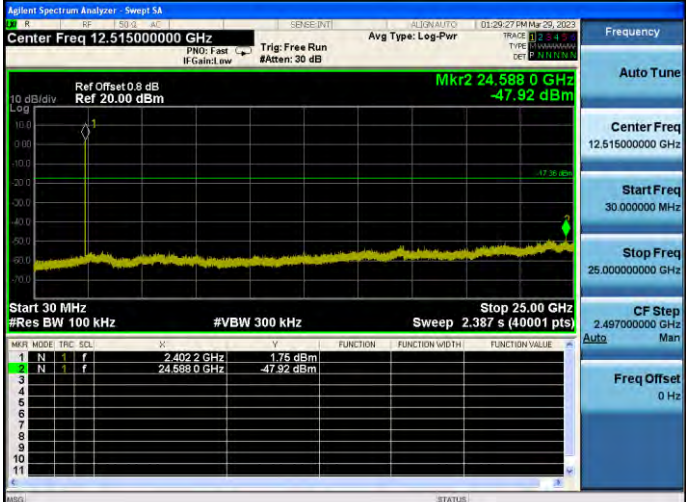
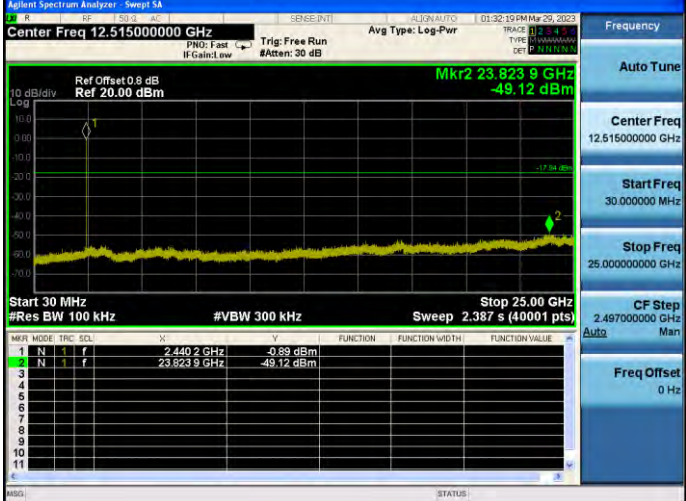


Appendix B. Test Plots

Duty cycle



Out of Band Conducted Spurious Emission

BLE 2M																												
Low ch	 Agilent Spectrum Analyzer - Swept SA Center Freq 12.515000000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr2 24.588 0 GHz -47.92 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (40001 pts) Stop 25.00 GHz <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SQL</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>2.402 2 GHz</td><td>-1.75 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.588 0 GHz</td><td>-47.92 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.402 2 GHz	-1.75 dBm				2	N	1	f	24.588 0 GHz	-47.92 dBm			
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BLR C8																																																																																																													
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Reference level

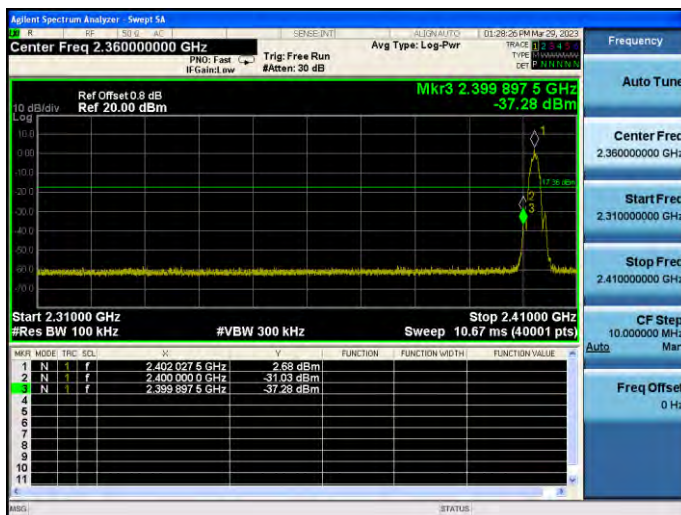
BLE 2M	
Low ch	
Mid ch	
High ch	

BLR C8	
Mid ch	
High ch	

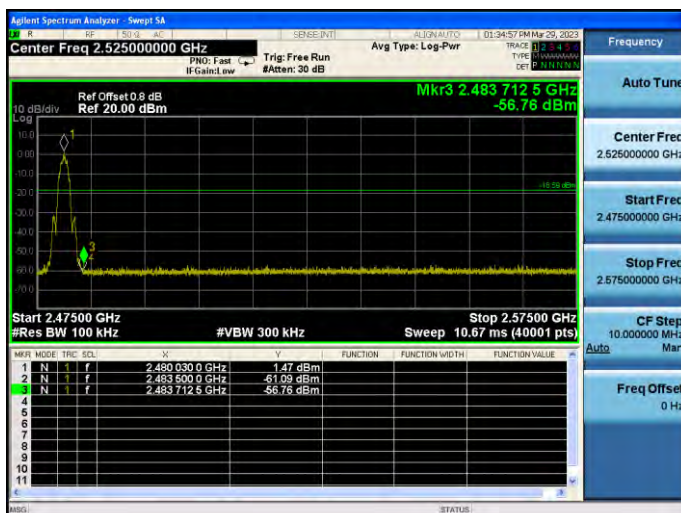
Conducted Band Edge

BLE 2M

Low ch



High ch



BLR C8																													
Low ch	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.360000000 GHz SENSE [INT] ALPHA AUTO 01:52:32 PM May 29, 2023 PRNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Leg-Pwr TYPE: D [Waveform] DET: P [Detector] Ref Offset 0.8 dB Ref 20.00 dBm Mkr3 2.395 820 0 GHz -57.89 dBm 10 dB/div Log Start 2.31000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10.67 ms (40001 pts) Stop 2.41000 GHz Marker Table <table><thead><tr><th>Marker</th><th>Mode</th><th>Freq</th><th>Level</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>2.402 002 5 GHz</td><td>-17.1 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>2.400 000 0 GHz</td><td>-59.66 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>2.395 820 0 GHz</td><td>-57.89 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 2.360000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.410000000 GHz CF Step 10.000000 MHz Man Freq Offset 0 Hz	Marker	Mode	Freq	Level	Function	Function Width	Function Value	1	N	2.402 002 5 GHz	-17.1 dBm				2	N	2.400 000 0 GHz	-59.66 dBm				3	N	2.395 820 0 GHz	-57.89 dBm			
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High ch	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.525000000 GHz SENSE [INT] ALPHA AUTO 01:58:42 PM May 29, 2023 PRNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Leg-Pwr TRACE [1] 2 = 4 = 7 TYPE: D [Waveform] DET: P [Detector] Ref Offset 0.8 dB Ref 20.00 dBm Mkr3 2.538 912 5 GHz -57.25 dBm 10 dB/div Log Start 2.47500 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10.67 ms (40001 pts) Stop 2.57500 GHz Marker Table <table><thead><tr><th>Marker</th><th>Mode</th><th>Freq</th><th>Level</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>2.479 990 0 GHz</td><td>-0.27 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>2.483 500 0 GHz</td><td>-60.69 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>2.538 912 5 GHz</td><td>-57.25 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 2.525000000 GHz Start Freq 2.475000000 GHz Stop Freq 2.575000000 GHz CF Step 10.000000 MHz Man Freq Offset 0 Hz	Marker	Mode	Freq	Level	Function	Function Width	Function Value	1	N	2.479 990 0 GHz	-0.27 dBm				2	N	2.483 500 0 GHz	-60.69 dBm				3	N	2.538 912 5 GHz	-57.25 dBm			
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6 dB Bandwidth

BLE 2M

Low ch

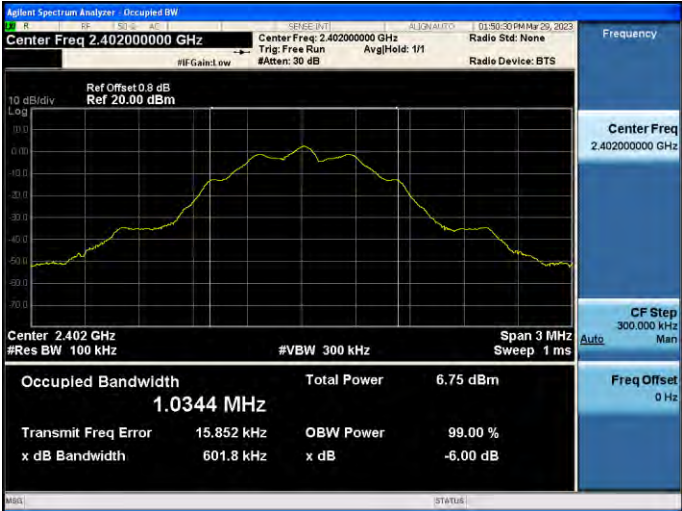


Mid ch

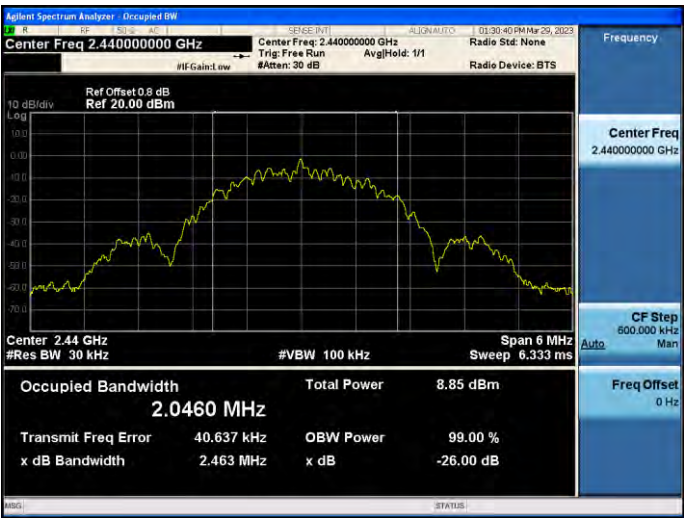


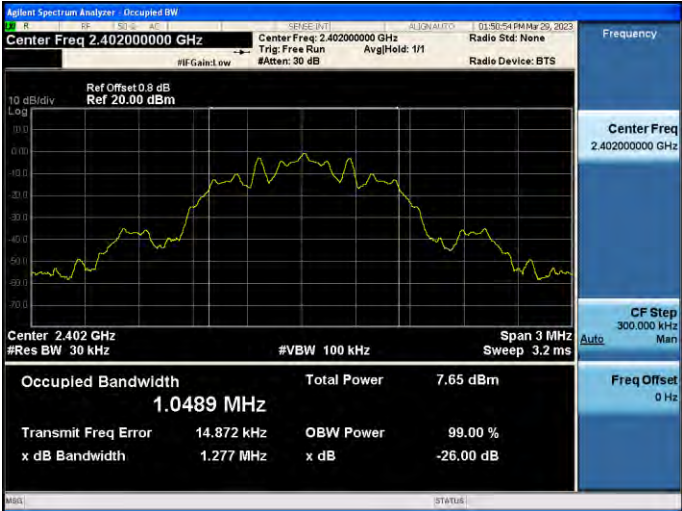
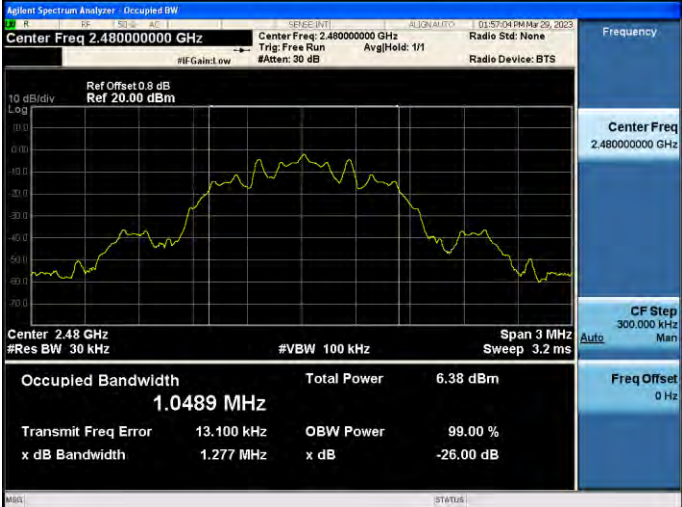
High ch



BLR C8 Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Center Freq 2.402000000 GHz Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms Occupied Bandwidth 1.0344 MHz Total Power 6.75 dBm Transmit Freq Error 15.852 kHz OBW Power 99.00 % x dB Bandwidth 601.8 kHz x dB -6.00 dB Frequency Center Freq 2.402000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.440000000 GHz Center Freq 2.440000000 GHz Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms Occupied Bandwidth 1.0319 MHz Total Power 6.23 dBm Transmit Freq Error 13.935 kHz OBW Power 99.00 % x dB Bandwidth 601.1 kHz x dB -6.00 dB Frequency Center Freq 2.440000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Center Freq 2.480000000 GHz Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms Occupied Bandwidth 1.0316 MHz Total Power 5.62 dBm Transmit Freq Error 14.249 kHz OBW Power 99.00 % x dB Bandwidth 603.0 kHz x dB -6.00 dB Frequency Center Freq 2.480000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz

99 % Occupied Bandwidth

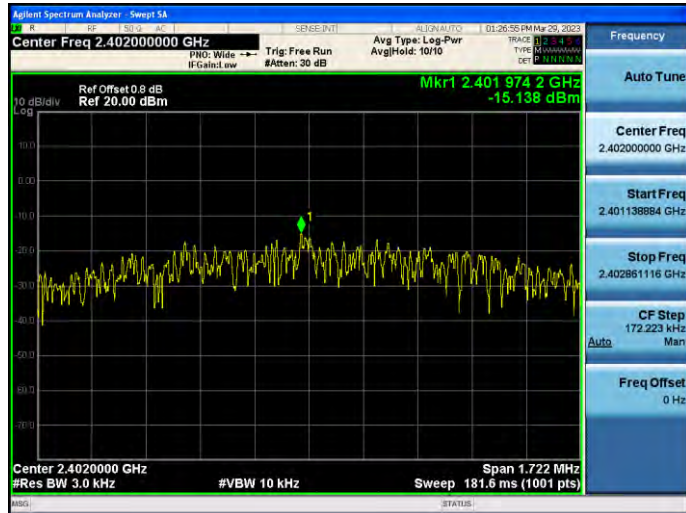
BLE 2M	
Low ch	
Mid ch	
High ch	

BLR C8	
Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Ref Offset: 0.5 dB Ref 20.00 dBm Occupied Bandwidth: 1.0489 MHz Total Power: 7.65 dBm Transmit Freq Error: 14.872 kHz OBW Power: 99.00 % x dB Bandwidth: 1.277 MHz x dB: -26.00 dB
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.440000000 GHz Ref Offset: 0.5 dB Ref 20.00 dBm Occupied Bandwidth: 1.0485 MHz Total Power: 7.03 dBm Transmit Freq Error: 13.208 kHz OBW Power: 99.00 % x dB Bandwidth: 1.277 MHz x dB: -26.00 dB
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Ref Offset: 0.5 dB Ref 20.00 dBm Occupied Bandwidth: 1.0489 MHz Total Power: 6.38 dBm Transmit Freq Error: 13.100 kHz OBW Power: 99.00 % x dB Bandwidth: 1.277 MHz x dB: -26.00 dB

Power Density

BLE 2M

Low ch



Mid ch



High ch



BLR C8 Low ch	
Mid ch	
High ch	