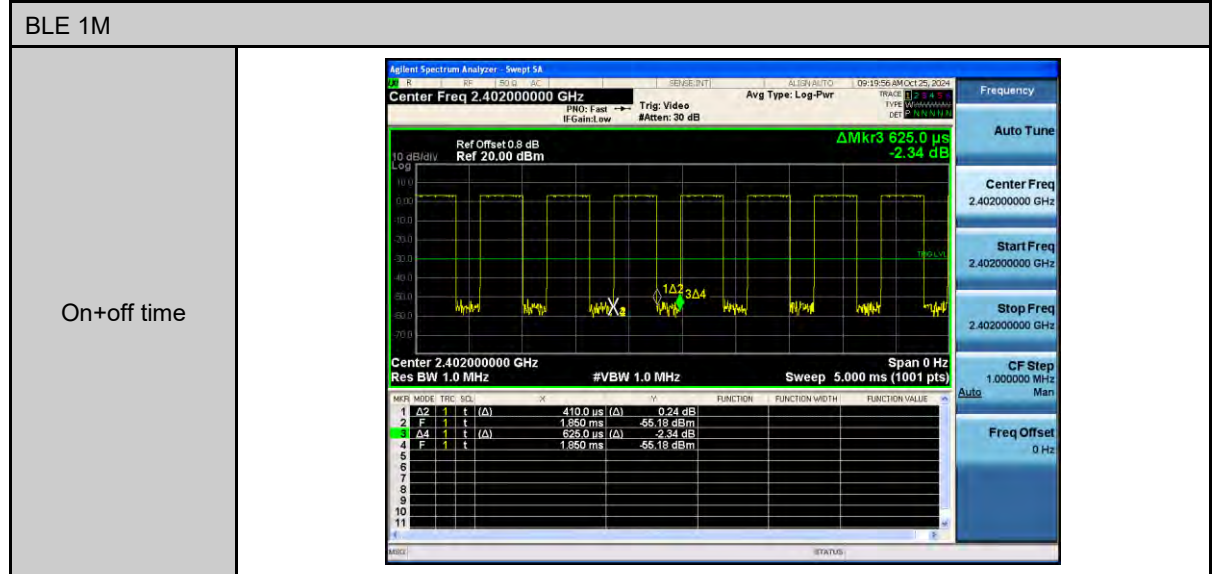


Appendix B. Test Plots




Duty cycle



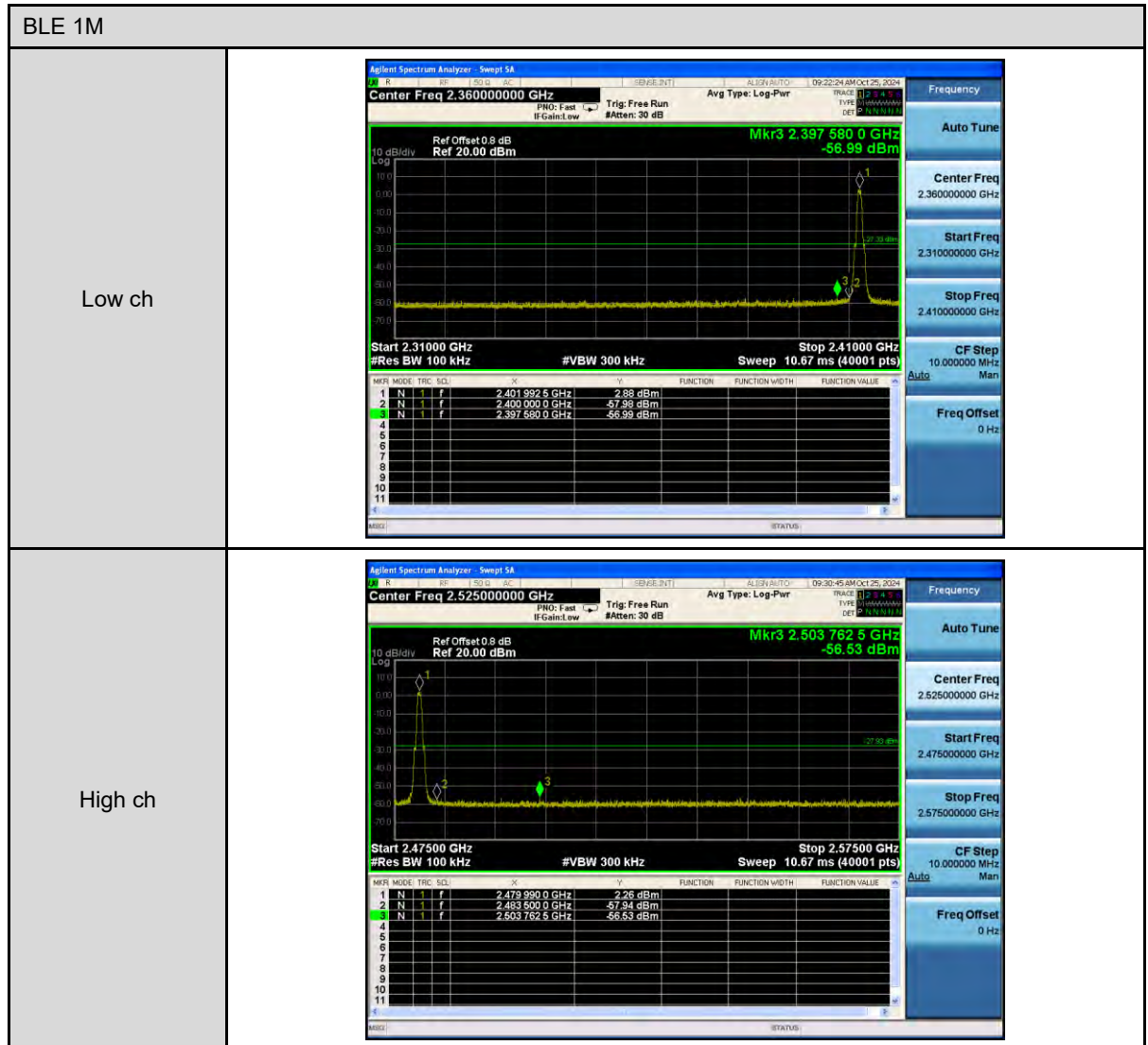
Out of Band Conducted Spurious Emission

BLE 1M																												
Low ch	<p>Agilent Spectrum Analyzer - Sweep 5A Center Freq 12.51500000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr2 23.350 1 GHz -47.50 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.387 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCD</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>F</td> <td>2.401 5 GHz</td> <td>1.77 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>23.350 1 GHz</td> <td>-47.50 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCD	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	2.401 5 GHz	1.77 dBm				2	N	1	F	23.350 1 GHz	-47.50 dBm			
MKR	MODE	TRC	SCD	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	F	2.401 5 GHz	1.77 dBm																							
2	N	1	F	23.350 1 GHz	-47.50 dBm																							
Mid ch	<p>Agilent Spectrum Analyzer - Sweep 5A Center Freq 12.51500000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr2 24.160 4 GHz -48.00 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.387 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCD</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>F</td> <td>2.440 2 GHz</td> <td>1.93 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>24.160 4 GHz</td> <td>-48.00 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCD	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	2.440 2 GHz	1.93 dBm				2	N	1	F	24.160 4 GHz	-48.00 dBm			
MKR	MODE	TRC	SCD	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	F	2.440 2 GHz	1.93 dBm																							
2	N	1	F	24.160 4 GHz	-48.00 dBm																							
High ch	<p>Agilent Spectrum Analyzer - Sweep 5A Center Freq 12.51500000 GHz Ref Offset 0.8 dB Ref 20.00 dBm Mkr2 24.201 6 GHz -47.92 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.387 s (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCD</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>F</td> <td>2.480 2 GHz</td> <td>2.08 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>24.201 6 GHz</td> <td>-47.92 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCD	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	2.480 2 GHz	2.08 dBm				2	N	1	F	24.201 6 GHz	-47.92 dBm			
MKR	MODE	TRC	SCD	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	F	2.480 2 GHz	2.08 dBm																							
2	N	1	F	24.201 6 GHz	-47.92 dBm																							

Reference level

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



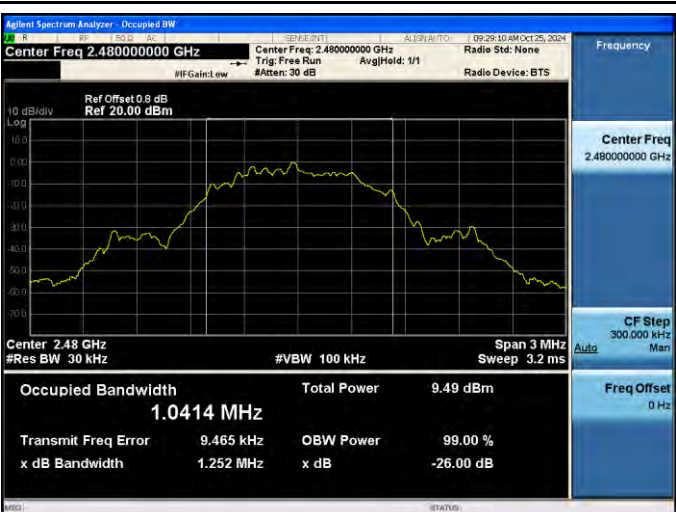
Conducted Band Edge





6 dB Bandwidth

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

99 % Occupied Bandwidth

BLE 1M	
Low ch	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.40200000 GHz</p> <p>Ref Offset 0.0 dB Ref 20.00 dBm</p> <p>Occupied Bandwidth: 1.0398 MHz</p> <p>Total Power: 9.99 dBm</p> <p>OBW Power: 99.00 %</p>
Mid ch	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.44000000 GHz</p> <p>Ref Offset 0.0 dB Ref 20.00 dBm</p> <p>Occupied Bandwidth: 1.0546 MHz</p> <p>Total Power: 9.81 dBm</p> <p>OBW Power: 99.00 %</p>
High ch	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.48000000 GHz</p> <p>Ref Offset 0.0 dB Ref 20.00 dBm</p> <p>Occupied Bandwidth: 1.0414 MHz</p> <p>Total Power: 9.49 dBm</p> <p>OBW Power: 99.00 %</p>

Power Density

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