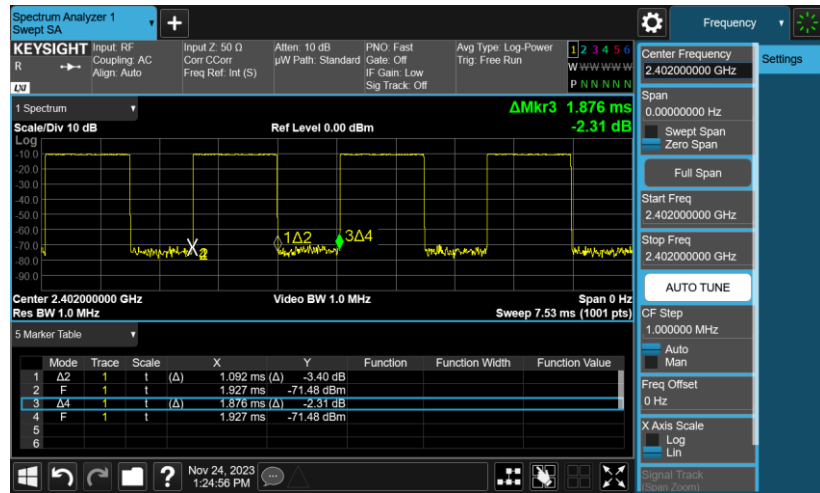


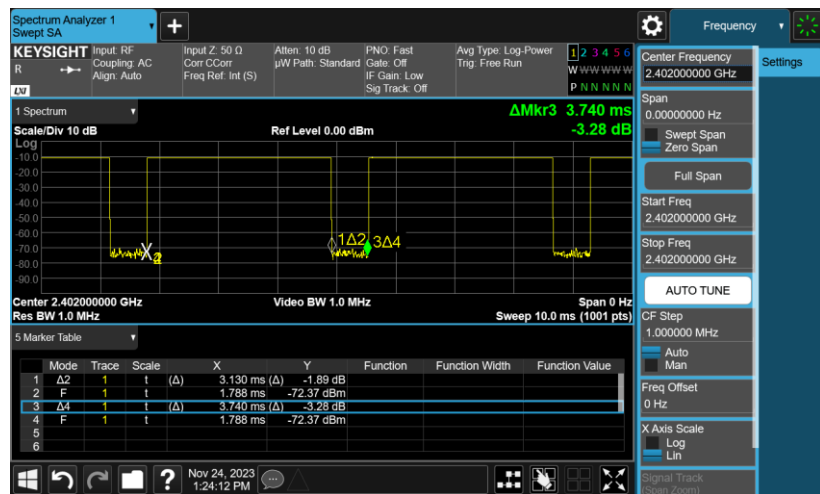
BLR C2

On+off time

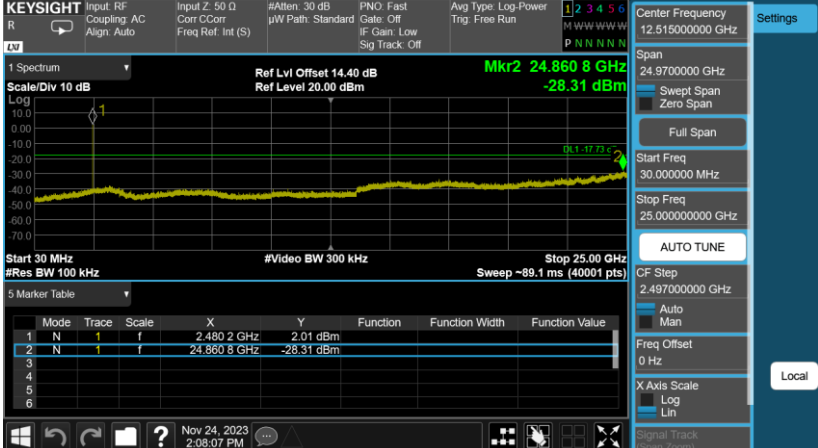


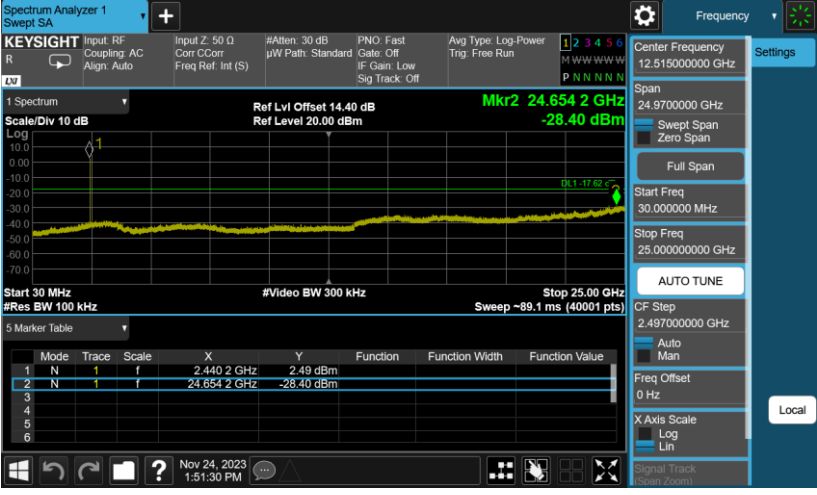
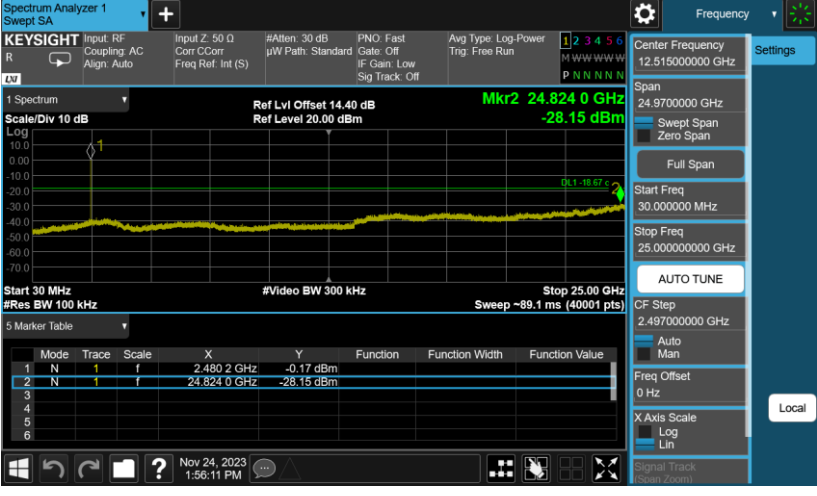
BLR C8

On+off time

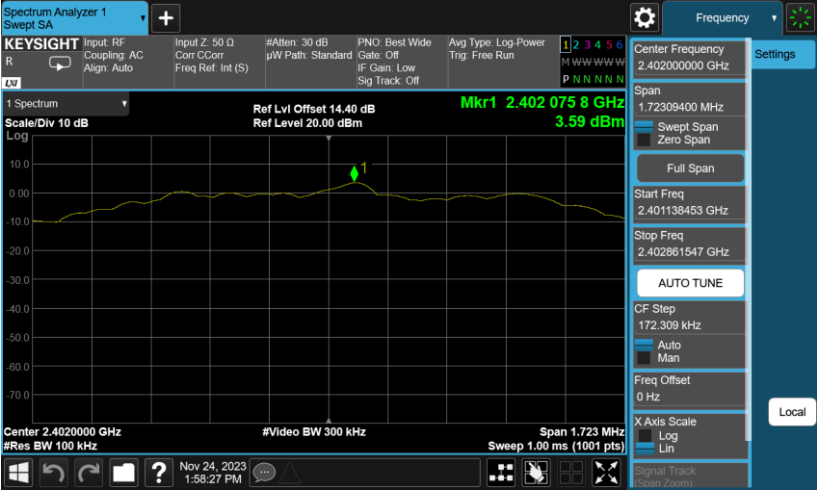
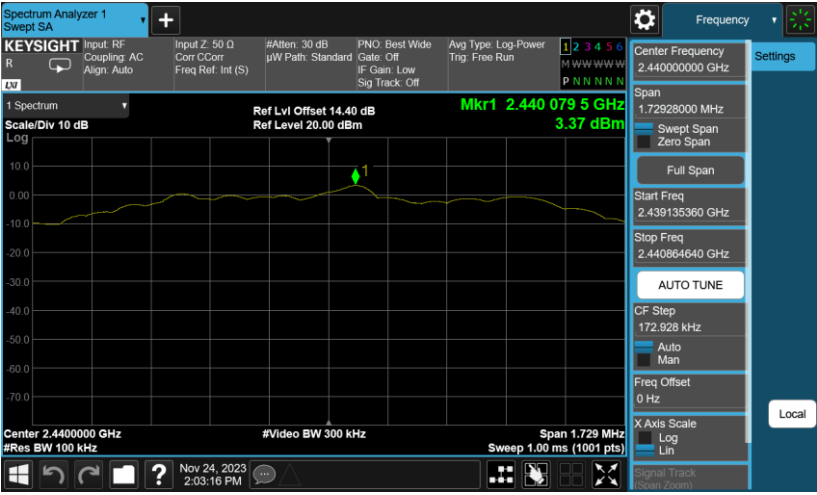
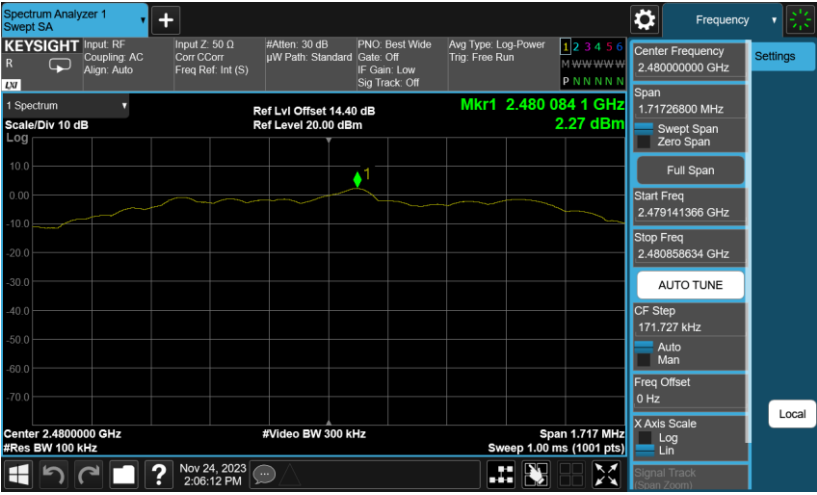


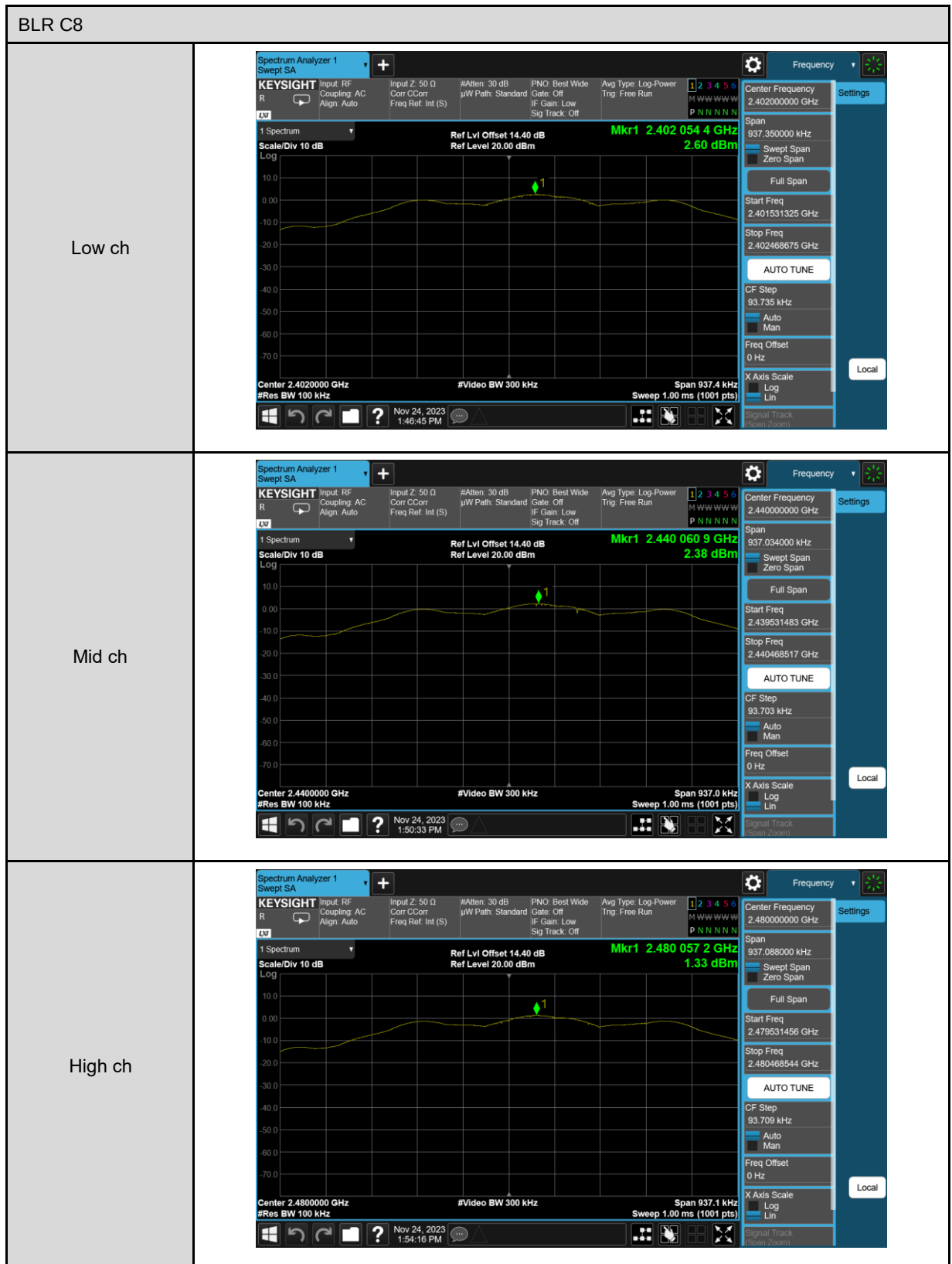
Out of Band Conducted Spurious Emission

BLE 2M																																																									
Low ch	 Spectrum Analyzer 1 Sweep SA KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corr: Corr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run 1 Spectrum Scale/Div 10 dB Log Ref Lvl Offset 14.40 dB Ref Level 20.00 dBm Mkr2 24.289 0 GHz -28.17 dBm Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 25.00 GHz Sweep ~89.1 ms (40001 pts) 5 Marker Table <table><tr><th>Mode</th><th>Trace</th><th>Scale</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>3.61 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.289 0 GHz</td><td>-28.17 dBm</td><td></td><td></td></tr><tr><td>3</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></tr><tr><td>5</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></tr></table> Nov 24, 2023 2:00:18 PM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.402 2 GHz	3.61 dBm			2	N	1	f	24.289 0 GHz	-28.17 dBm			3								4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	N	1	f	2.402 2 GHz	3.61 dBm																																																				
2	N	1	f	24.289 0 GHz	-28.17 dBm																																																				
3																																																									
4																																																									
5																																																									
6																																																									
Mid ch	 Spectrum Analyzer 1 Sweep SA KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corr: Corr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run 1 Spectrum Scale/Div 10 dB Log Ref Lvl Offset 14.40 dB Ref Level 20.00 dBm Mkr2 24.892 0 GHz -28.23 dBm Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 25.00 GHz Sweep ~89.1 ms (40001 pts) 5 Marker Table <table><tr><th>Mode</th><th>Trace</th><th>Scale</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>2.440 2 GHz</td><td>3.23 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.892 0 GHz</td><td>-28.23 dBm</td><td></td><td></td></tr><tr><td>3</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></tr><tr><td>5</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></tr></table> Nov 24, 2023 2:04:13 PM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.440 2 GHz	3.23 dBm			2	N	1	f	24.892 0 GHz	-28.23 dBm			3								4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	N	1	f	2.440 2 GHz	3.23 dBm																																																				
2	N	1	f	24.892 0 GHz	-28.23 dBm																																																				
3																																																									
4																																																									
5																																																									
6																																																									
High ch	 Spectrum Analyzer 1 Sweep SA KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corr: Corr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run 1 Spectrum Scale/Div 10 dB Log Ref Lvl Offset 14.40 dB Ref Level 20.00 dBm Mkr2 24.860 8 GHz -28.31 dBm Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 25.00 GHz Sweep ~89.1 ms (40001 pts) 5 Marker Table <table><tr><th>Mode</th><th>Trace</th><th>Scale</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>2.480 2 GHz</td><td>2.01 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.860 8 GHz</td><td>-28.31 dBm</td><td></td><td></td></tr><tr><td>3</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></tr><tr><td>5</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></tr></table> Nov 24, 2023 2:08:07 PM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.480 2 GHz	2.01 dBm			2	N	1	f	24.860 8 GHz	-28.31 dBm			3								4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	N	1	f	2.480 2 GHz	2.01 dBm																																																				
2	N	1	f	24.860 8 GHz	-28.31 dBm																																																				
3																																																									
4																																																									
5																																																									
6																																																									

BLR C8	
Low ch	 Keysight Spectrum Analyzer 1 screenshot for Low channel. The display shows a spectrum plot with a yellow trace. A marker 'Mkr2' is placed at 24.8583 GHz with a level of -28.56 dBm. The plot shows a relatively flat spectrum with some noise. The settings on the right include Center Frequency 12.515000000 GHz, Span 24.9700000 GHz, and various other parameters.
Mid ch	 Keysight Spectrum Analyzer 1 screenshot for Mid channel. The display shows a spectrum plot with a yellow trace. A marker 'Mkr2' is placed at 24.6542 GHz with a level of -28.40 dBm. The plot shows a relatively flat spectrum with some noise. The settings on the right include Center Frequency 12.515000000 GHz, Span 24.9700000 GHz, and various other parameters.
High ch	 Keysight Spectrum Analyzer 1 screenshot for High channel. The display shows a spectrum plot with a yellow trace. A marker 'Mkr2' is placed at 24.8240 GHz with a level of -28.15 dBm. The plot shows a relatively flat spectrum with some noise. The settings on the right include Center Frequency 12.515000000 GHz, Span 24.9700000 GHz, and various other parameters.

Reference level

BLE 2M Low ch	
Mid ch	
High ch	



Conducted Band Edge

BLE 2M

Low ch

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 30 dB μ W Path: Standard PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run

Center Frequency: 2.360000000 GHz
Span: 100.000000 MHz
Start Freq: 2.310000000 GHz
Stop Freq: 2.410000000 GHz
AUTO TUNE
CF Step: 10.000000 MHz
Freq Offset: 0 Hz
X Axis Scale: Log Lin
Signal Track (Span Zoom)

1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 14.40 dB
Ref Level 20.00 dBm
Mkr3 2.385 030 0 GHz
-42.81 dBm

Start 2.310000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 2.410000 GHz
Sweep 2.67 ms (40001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.402 072 5 GHz	3.63 dBm		
2	N	1	f	2.400 000 0 GHz	-41.00 dBm		
3	N	1	f	2.385 030 0 GHz	-42.81 dBm		
4							
5							
6							

Nov 24, 2023 1:59:23 PM

High ch

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 30 dB μ W Path: Standard PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run

Center Frequency: 2.525000000 GHz
Span: 100.000000 MHz
Start Freq: 2.475000000 GHz
Stop Freq: 2.575000000 GHz
AUTO TUNE
CF Step: 10.000000 MHz
Freq Offset: 0 Hz
X Axis Scale: Log Lin
Signal Track (Span Zoom)

1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 14.40 dB
Ref Level 20.00 dBm
Mkr3 2.525 872 5 GHz
-42.17 dBm

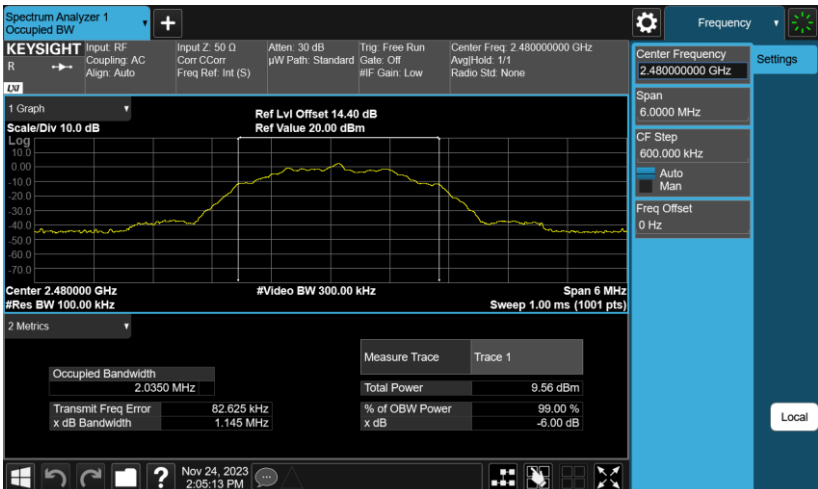
Start 2.475000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 2.575000 GHz
Sweep 2.67 ms (40001 pts)

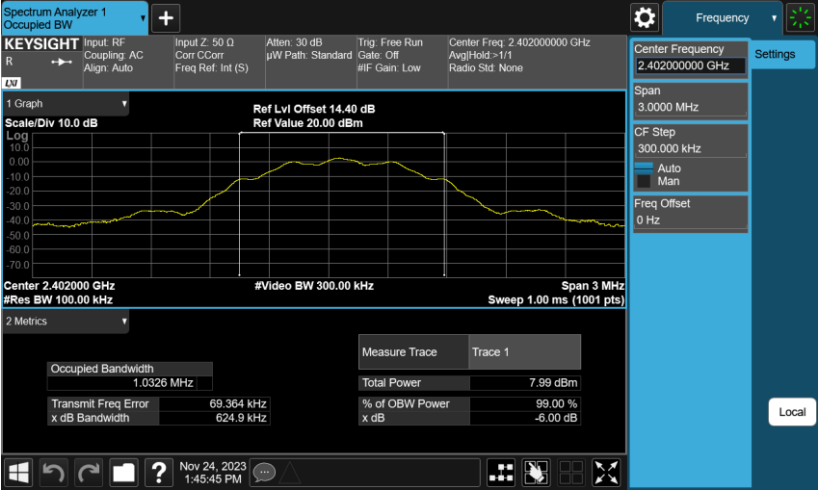
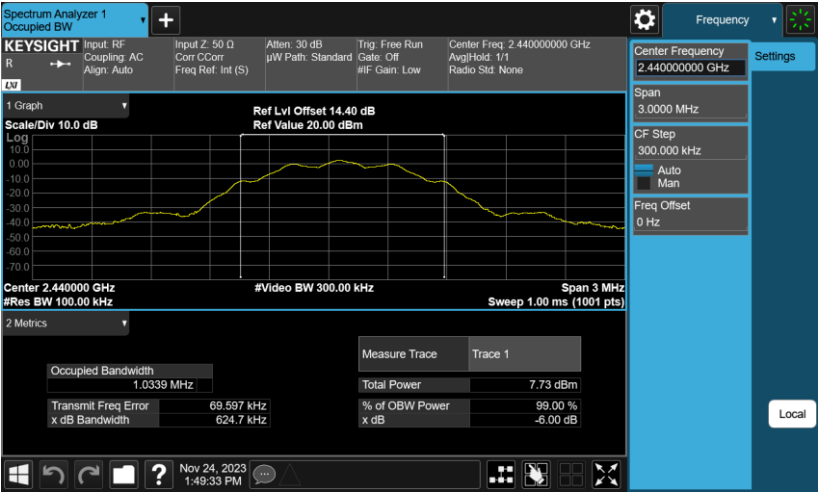
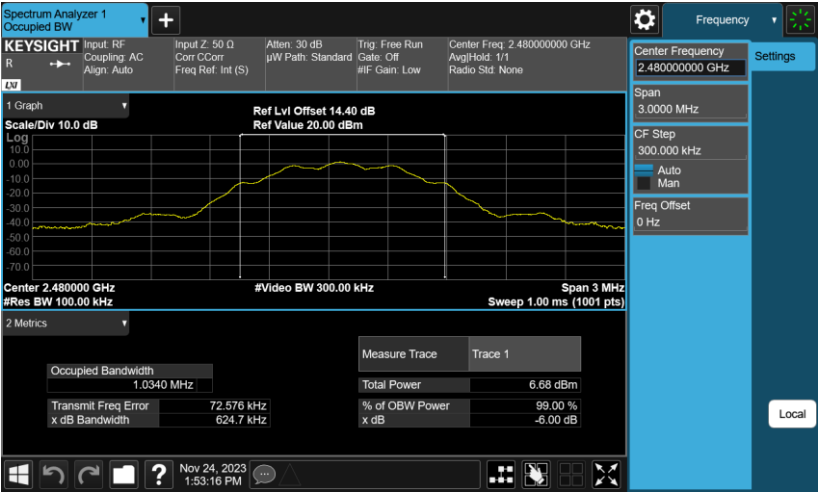
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2	N	1	f	2.483 500 0 GHz	-45.89 dBm		
3	N	1	f	2.525 872 5 GHz	-42.17 dBm		
4							
5							
6							

Nov 24, 2023 2:07:10 PM

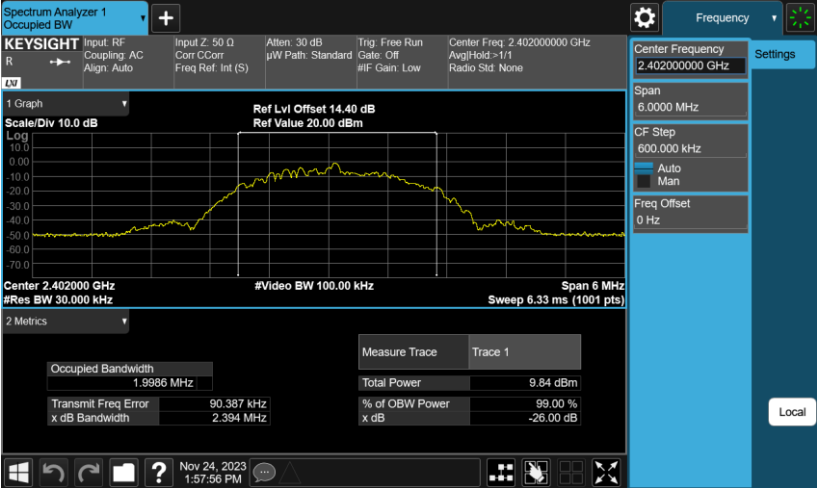
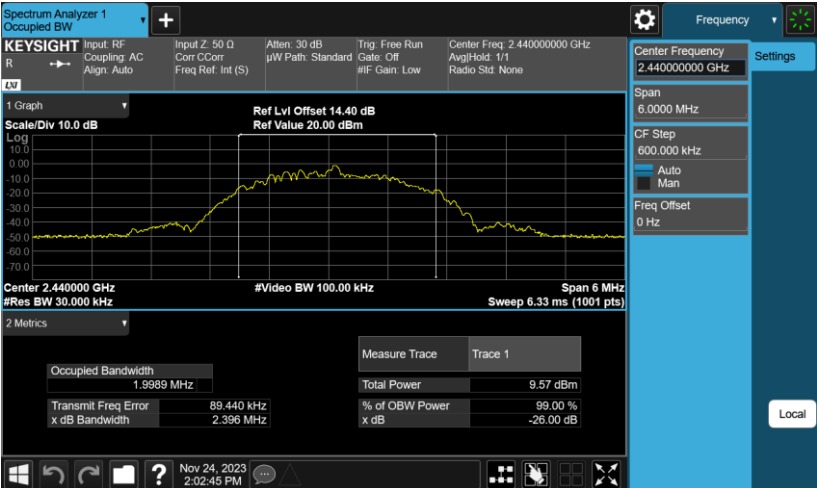
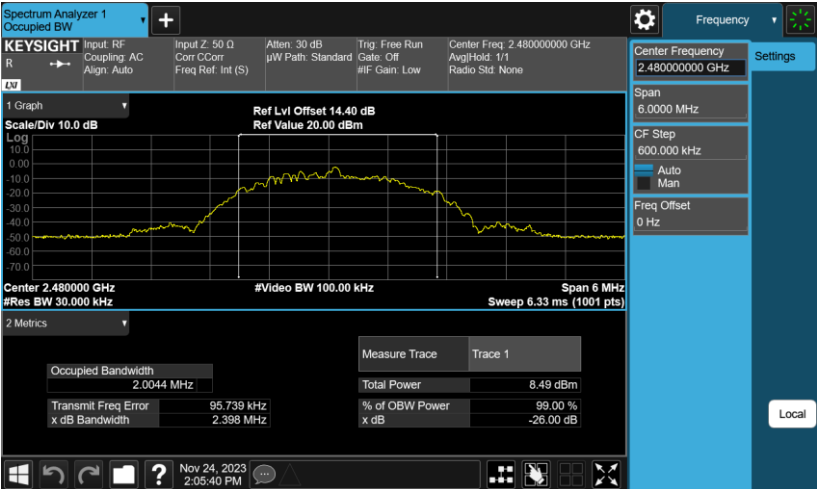


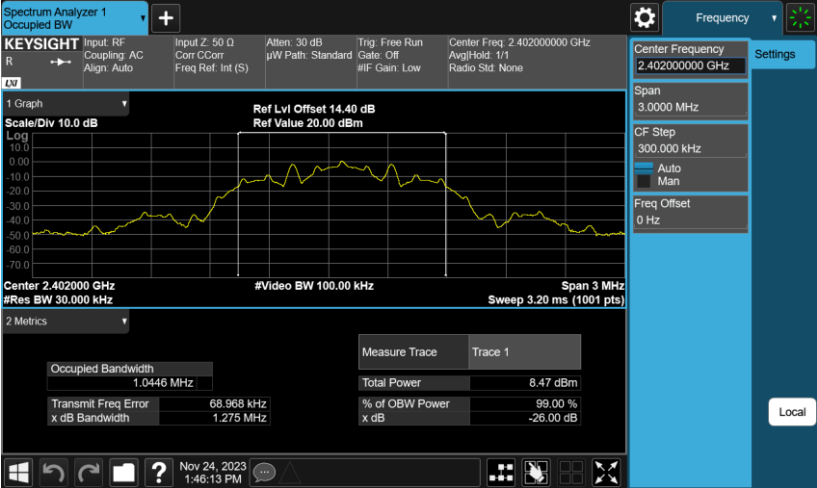
6 dB Bandwidth

BLE 2M	
Low ch	
Mid ch	
High ch	

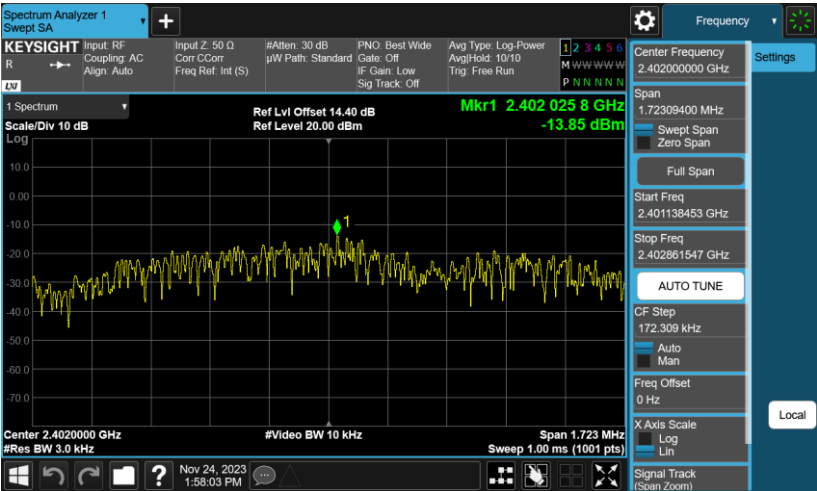
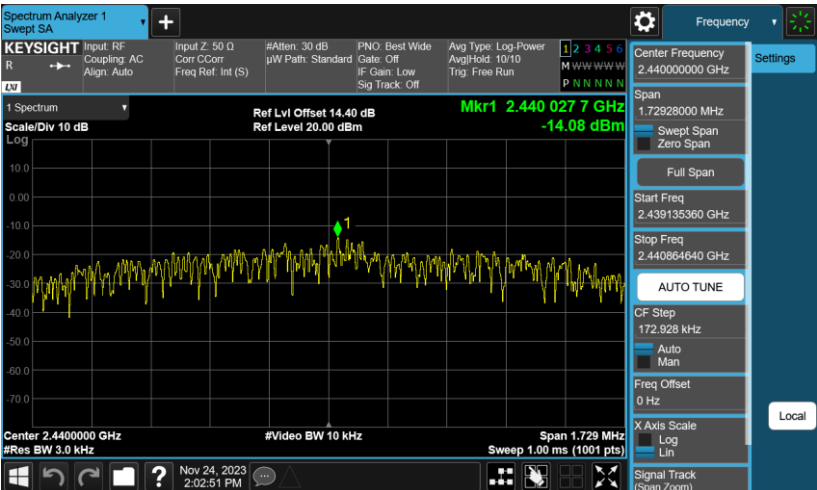
BLR C8	
Mid ch	
High ch	

99 % Occupied Bandwidth

BLE 2M Low ch	
Mid ch	
High ch	

BLR C8	
Mid ch	
High ch	

Power Density

BLE 2M Low ch	
Mid ch	
High ch	