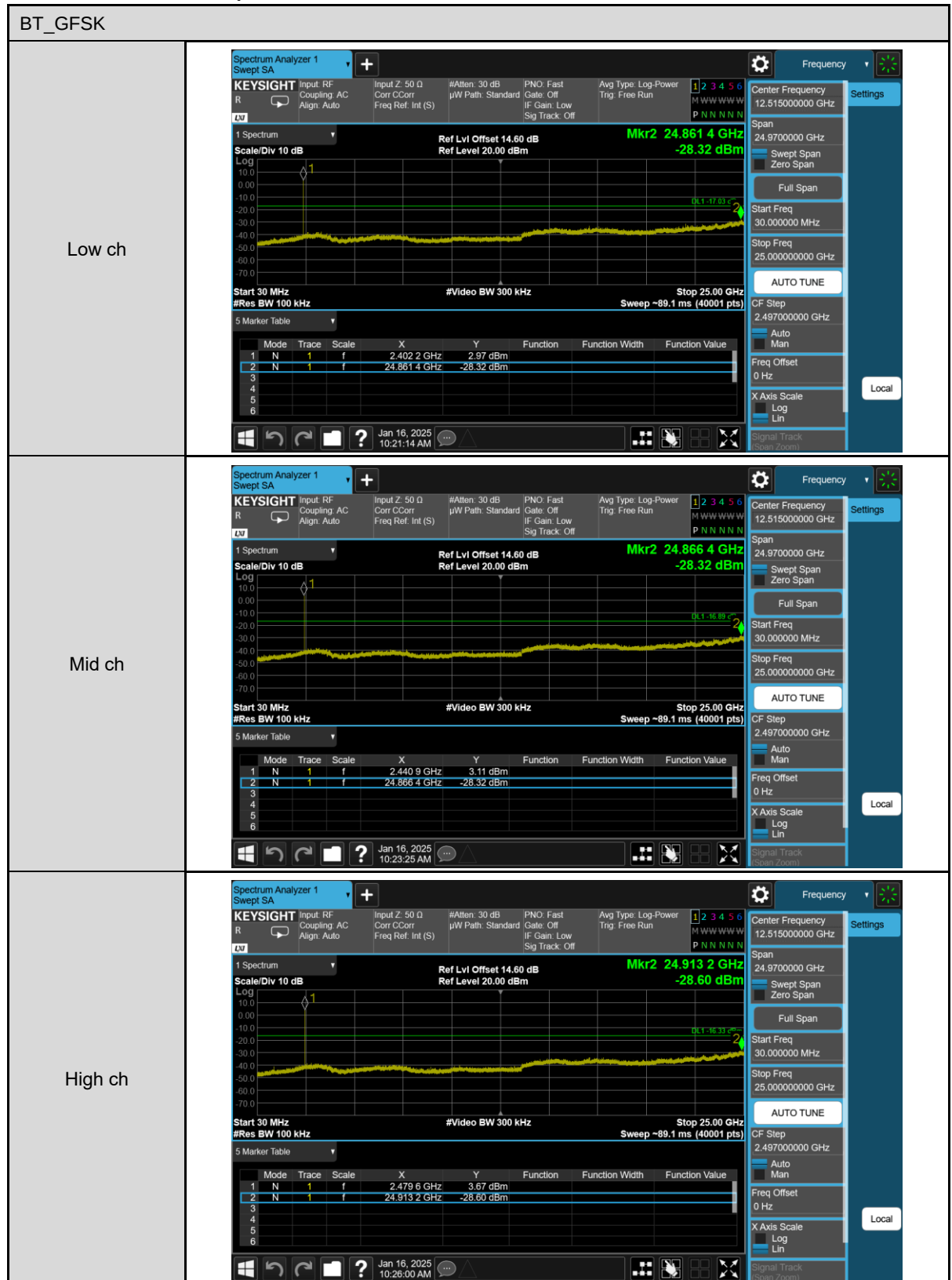


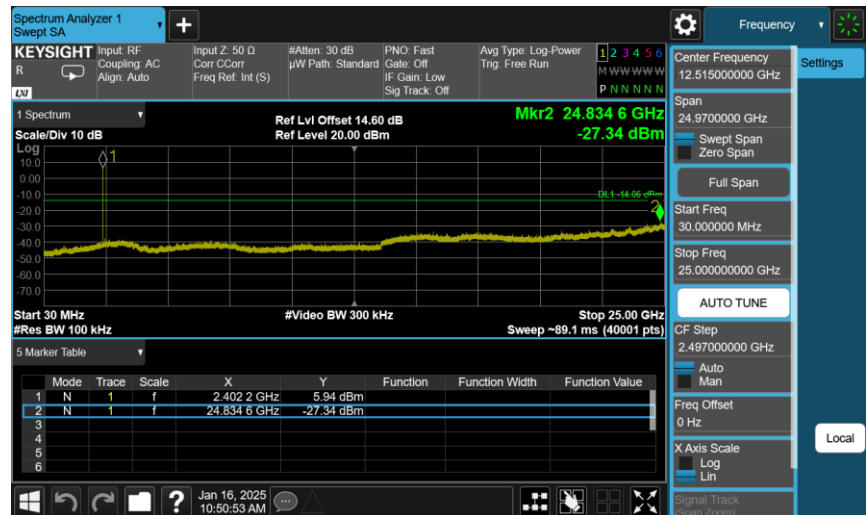
Appendix B. Test Plots

Out of Band Conducted Spurious Emission

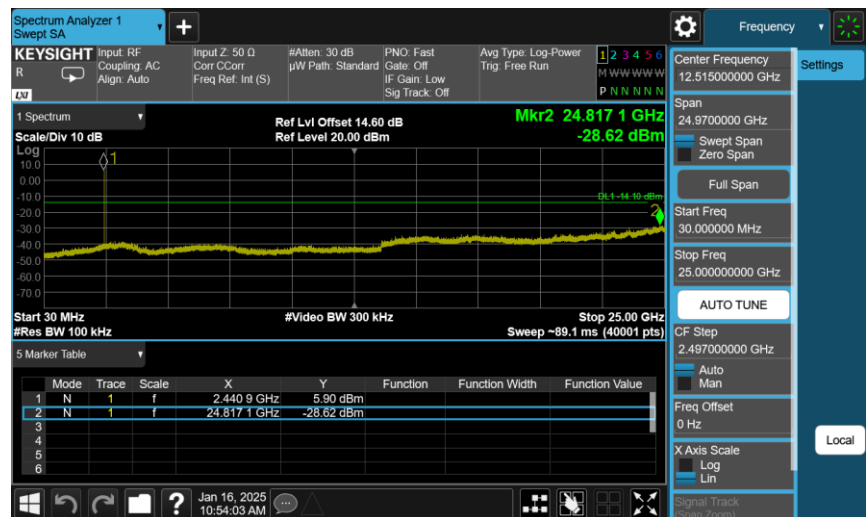


BT_8DPSK

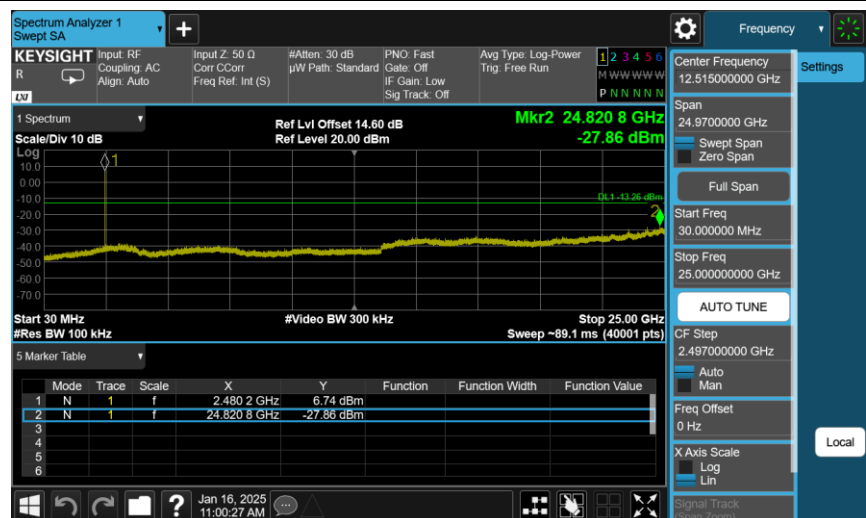
Low ch



Mid ch



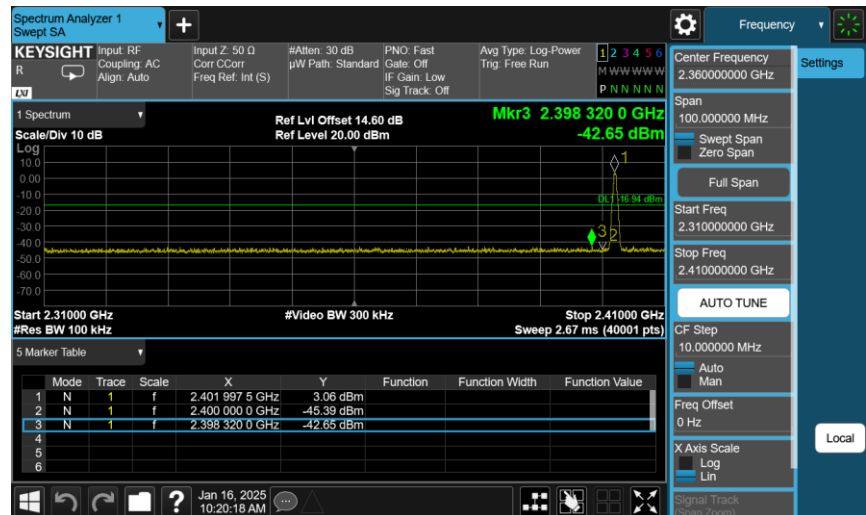
High ch



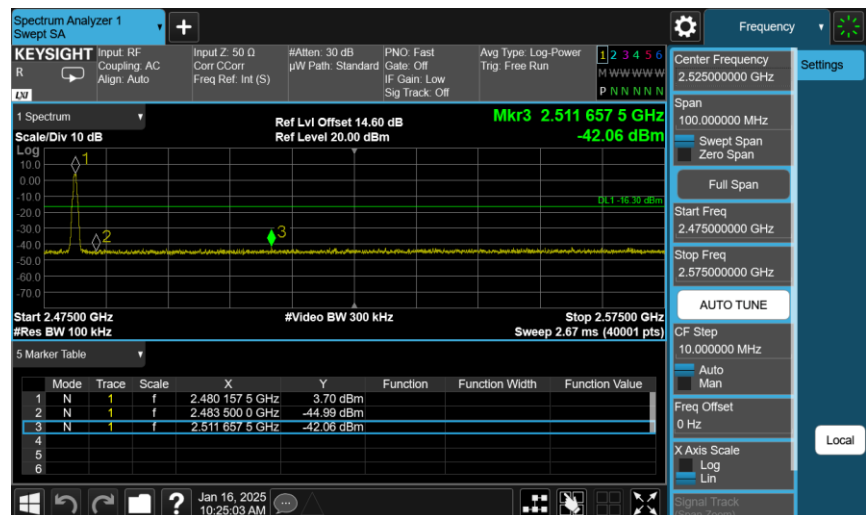
Conducted Band Edge

BT_GFSK_Non-Hopping

Low ch

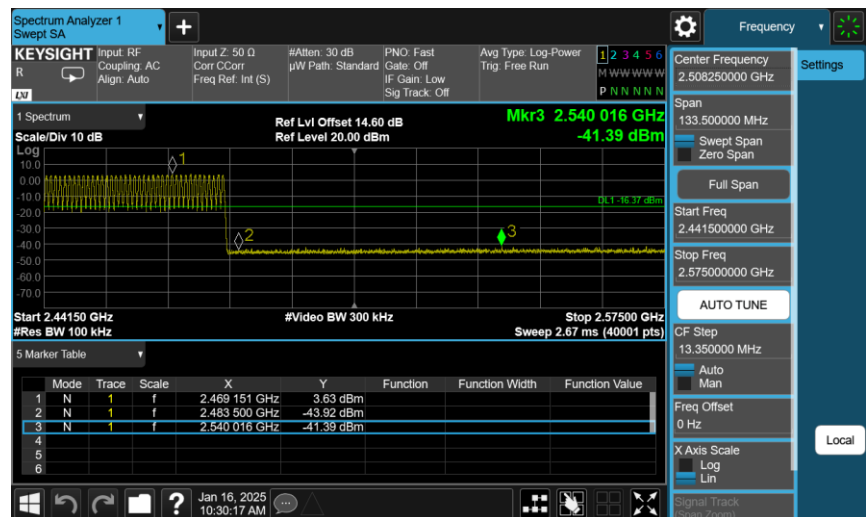
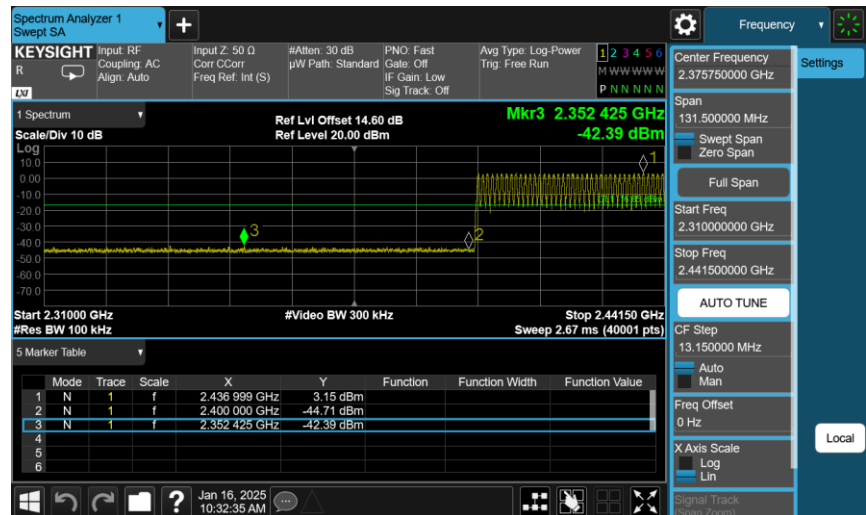


High ch



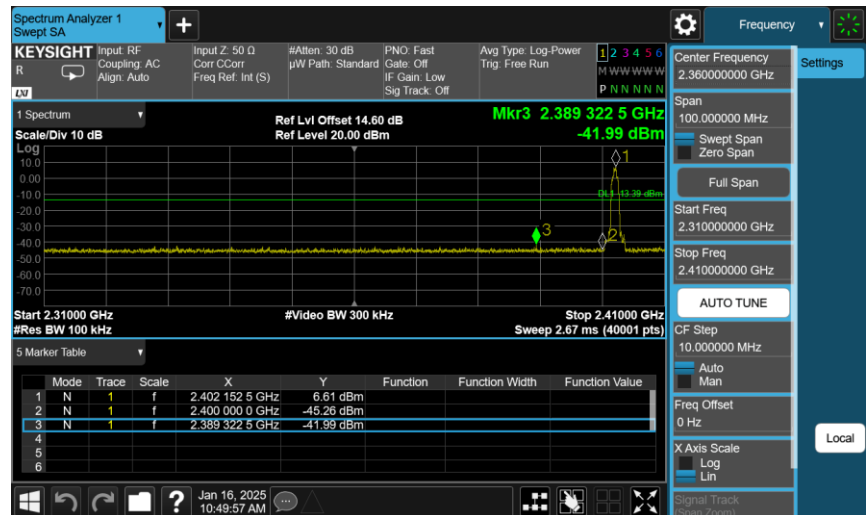
BT_GFSK_Hopping

Low ch-High ch

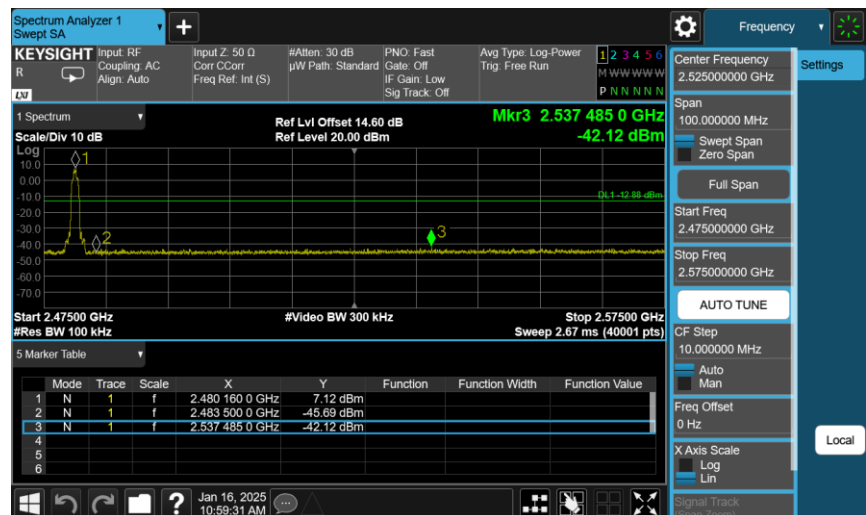


BT_8DPSK _Non-Hopping

Low ch

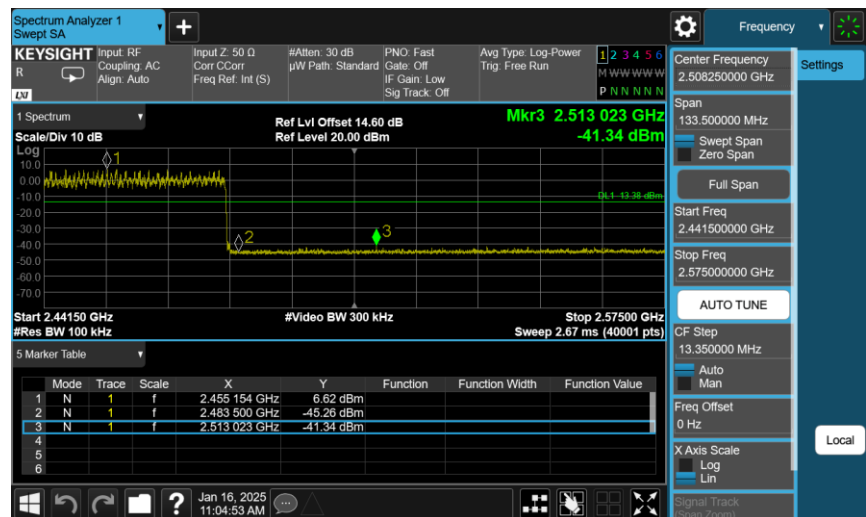
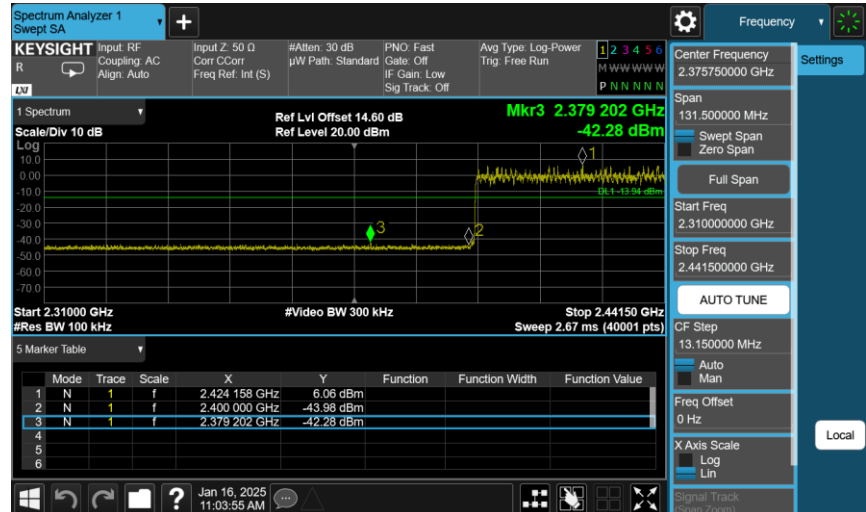


High ch



BT_8DPSK_Hopping

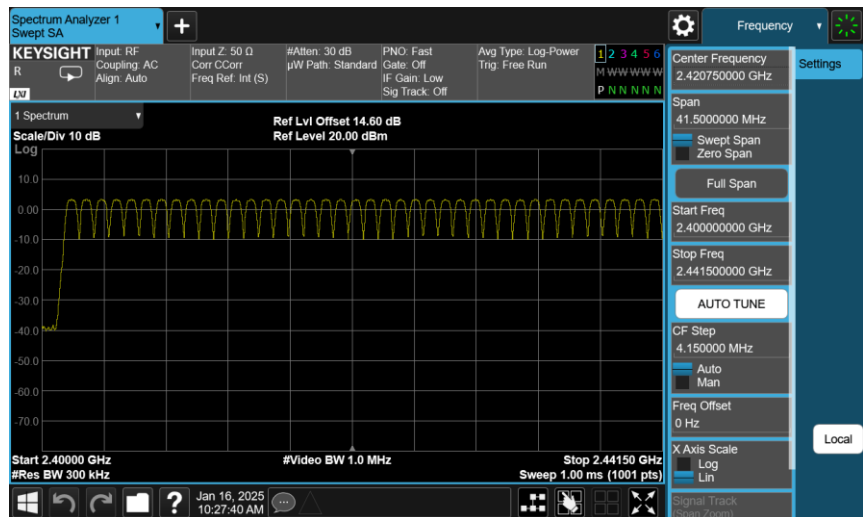
Low ch-High ch



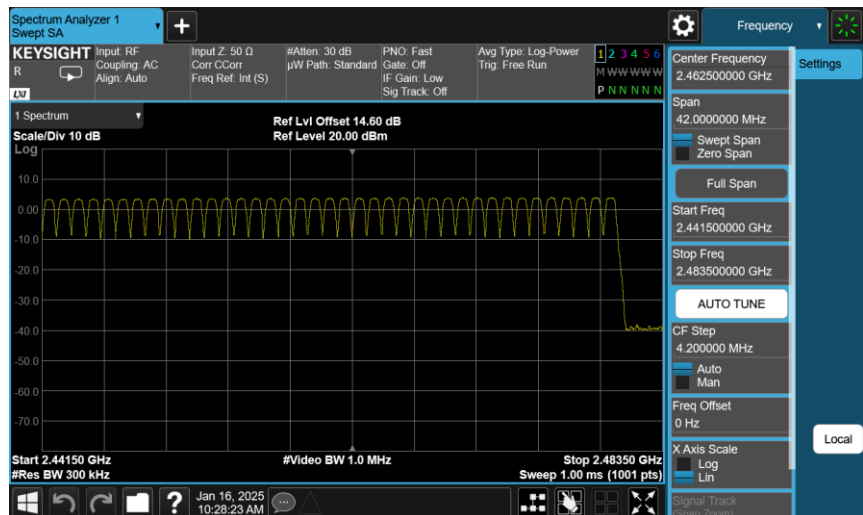
Number of Hopping

BT_GFSK

CH00 - CH39

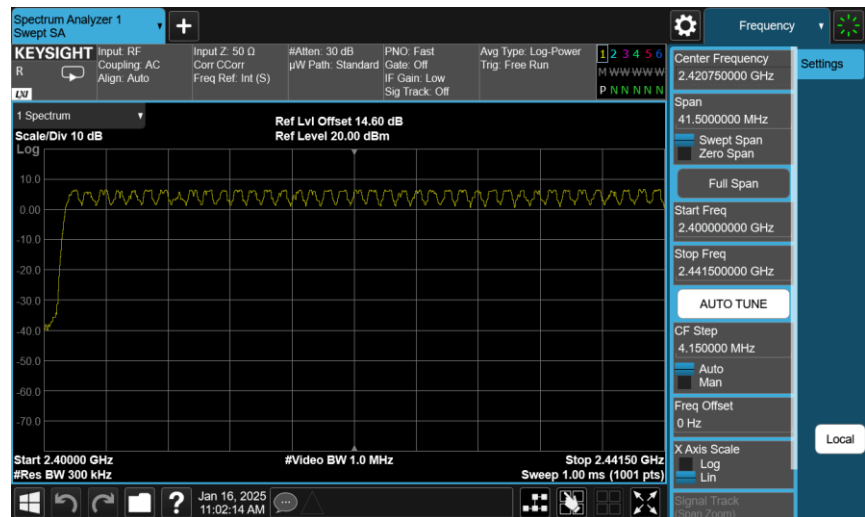


CH39- CH78

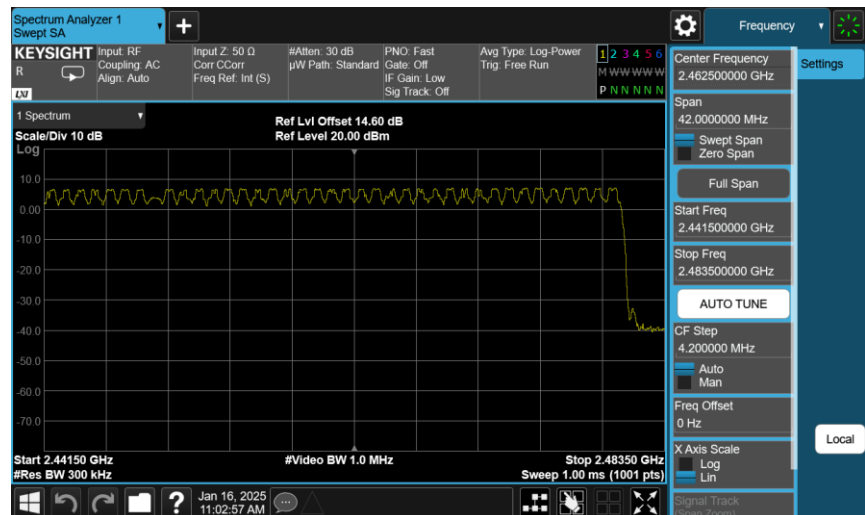


BT_8DPSK

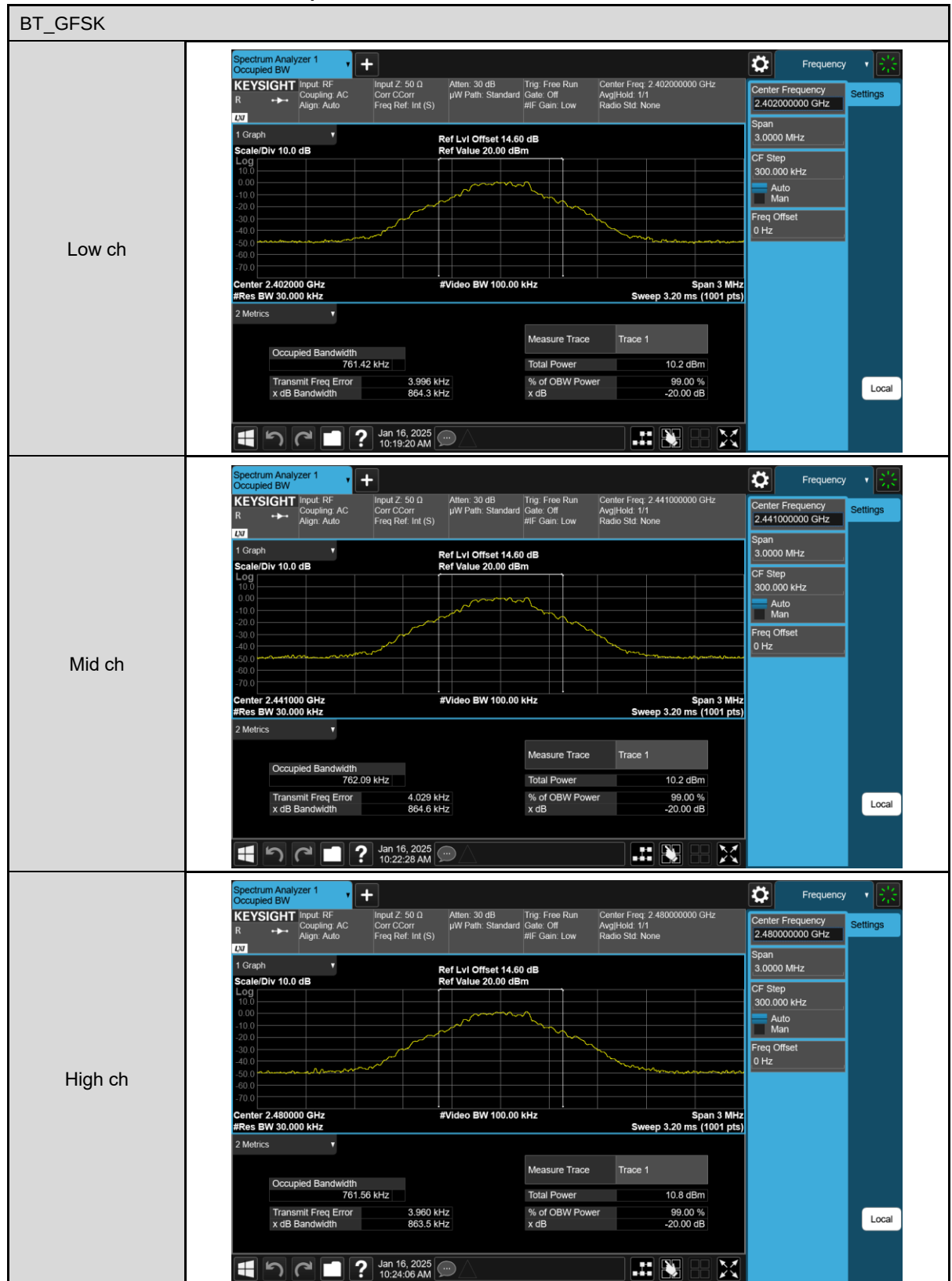
CH00 - CH39



CH39- CH78



20 dB RF Bandwidth & 99 % Occupied Bandwidth

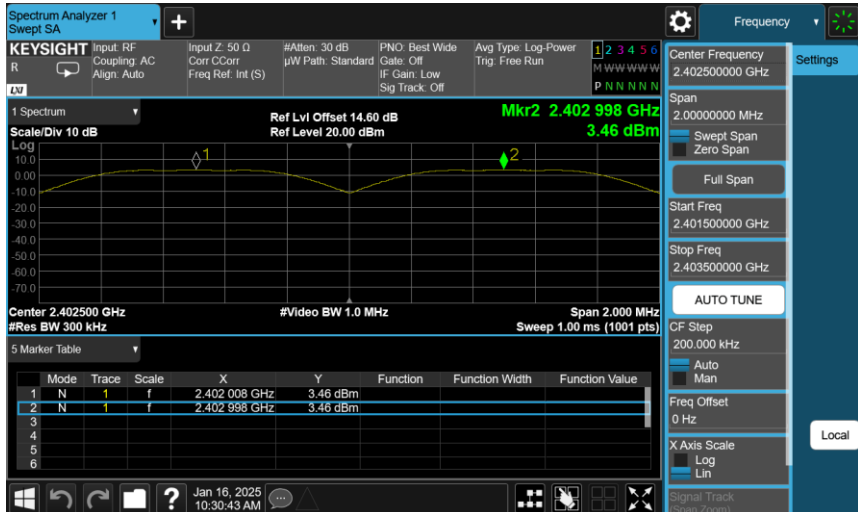




Carrier Frequency Separation

BT_GFSK

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 PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run

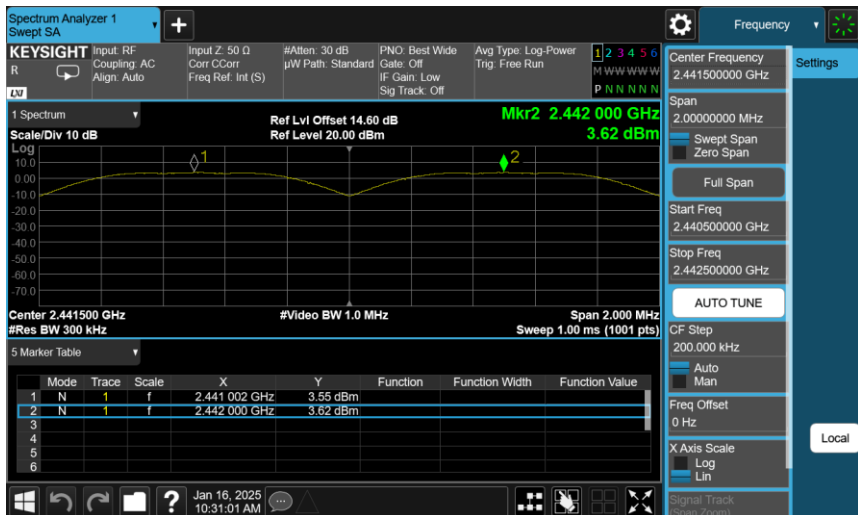
1 Spectrum Scale/Div 10 dB Log Ref Lvl Offset 14.60 dB Ref Level 20.00 dBm Mkr2 2.402998 GHz 3.46 dBm

Center 2.402500 GHz #Res BW 300 kHz #Video BW 1.0 MHz Span 2.000 MHz Sweep 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.402008 GHz	3.46 dBm		
2	N	1	f	2.402998 GHz	3.46 dBm		
3							
4							
5							
6							

Jan 16, 2025 10:30:43 AM

Mid 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 PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run

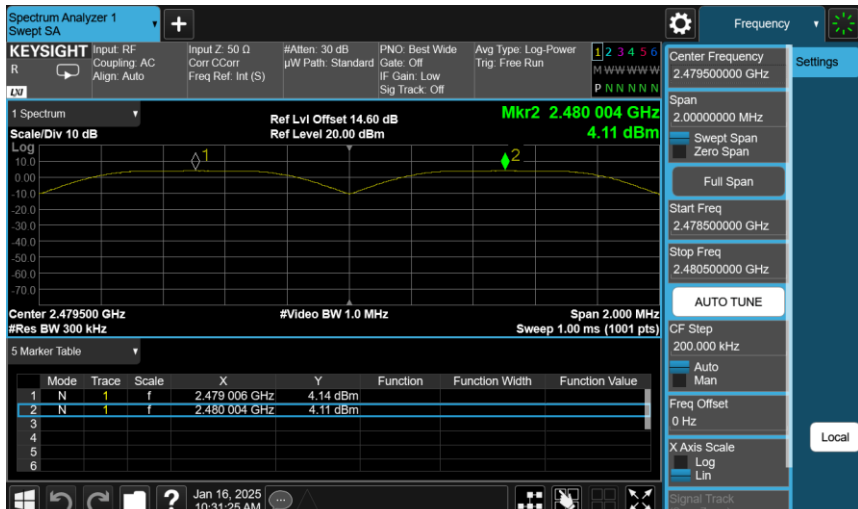
1 Spectrum Scale/Div 10 dB Log Ref Lvl Offset 14.60 dB Ref Level 20.00 dBm Mkr2 2.442000 GHz 3.62 dBm

Center 2.441500 GHz #Res BW 300 kHz #Video BW 1.0 MHz Span 2.000 MHz Sweep 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.441002 GHz	3.55 dBm		
2	N	1	f	2.442000 GHz	3.62 dBm		
3							
4							
5							
6							

Jan 16, 2025 10:31:01 AM

High ch



Spectrum Analyzer 1 Sweep SA

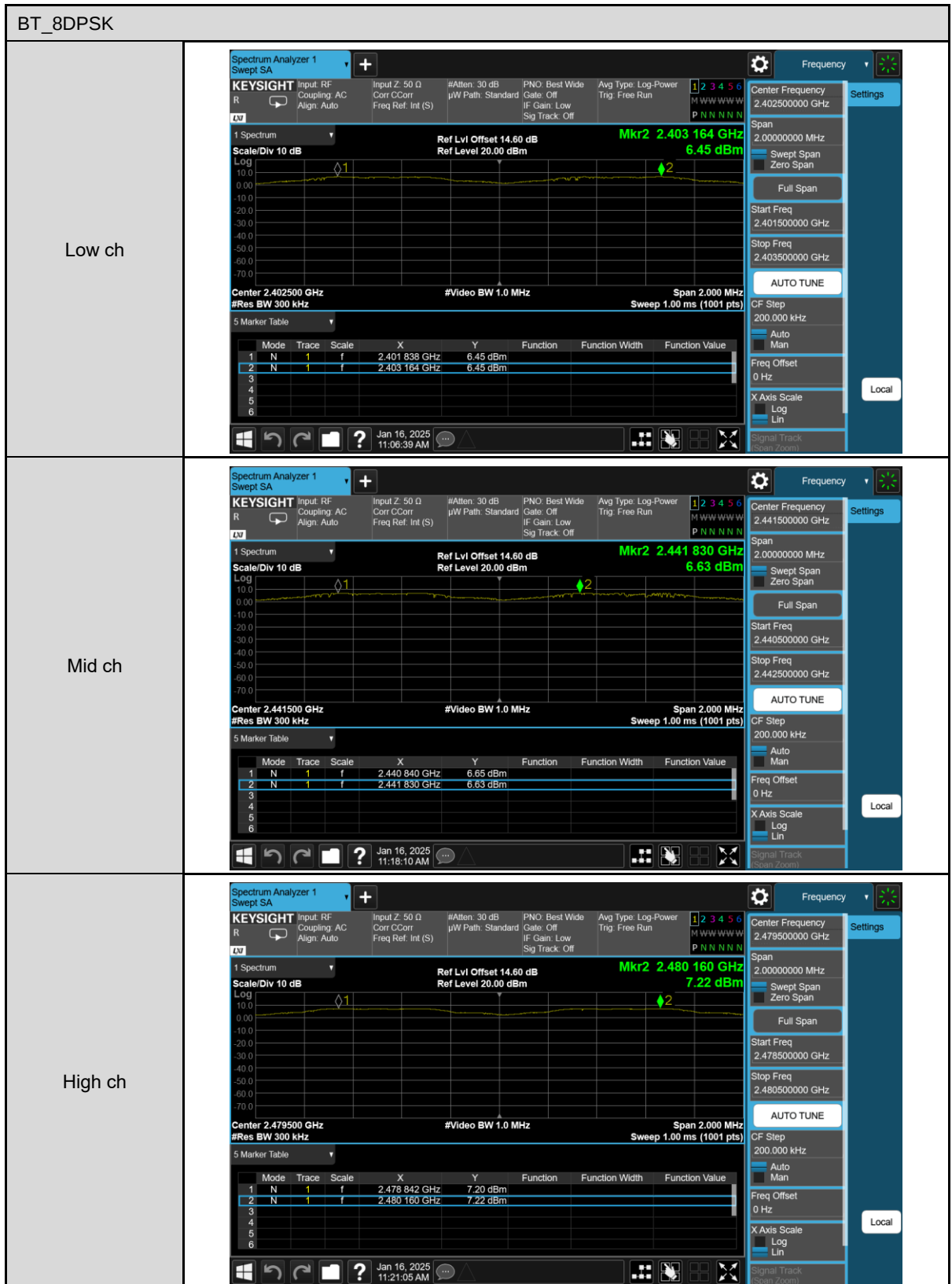
KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corr: C Corr: Freq Ref: Int (S) #Atten: 30 dB PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Free Run

1 Spectrum Scale/Div 10 dB Log Ref Lvl Offset 14.60 dB Ref Level 20.00 dBm Mkr2 2.480004 GHz 4.11 dBm

Center 2.479500 GHz #Res BW 300 kHz #Video BW 1.0 MHz Span 2.000 MHz Sweep 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.479006 GHz	4.14 dBm		
2	N	1	f	2.480004 GHz	4.11 dBm		
3							
4							
5							
6							

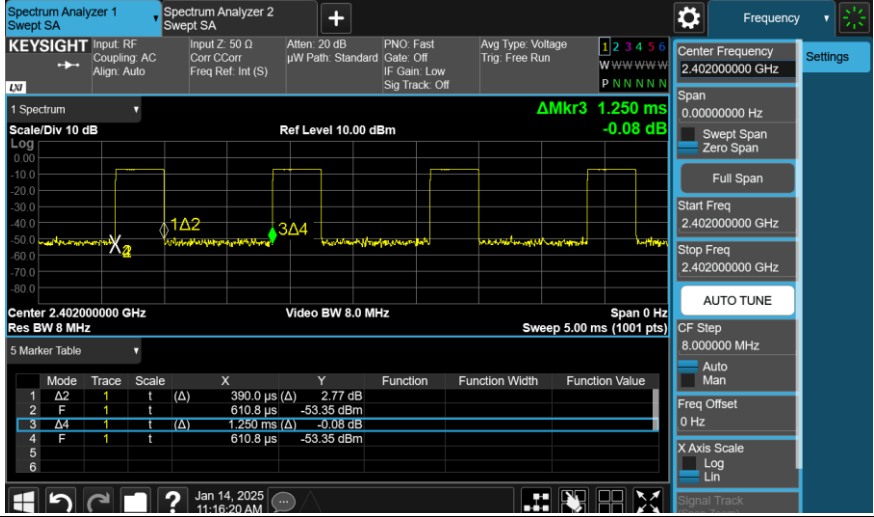
Jan 16, 2025 10:31:25 AM



Time of Occupancy (Dwell Time)

BT_GFSK

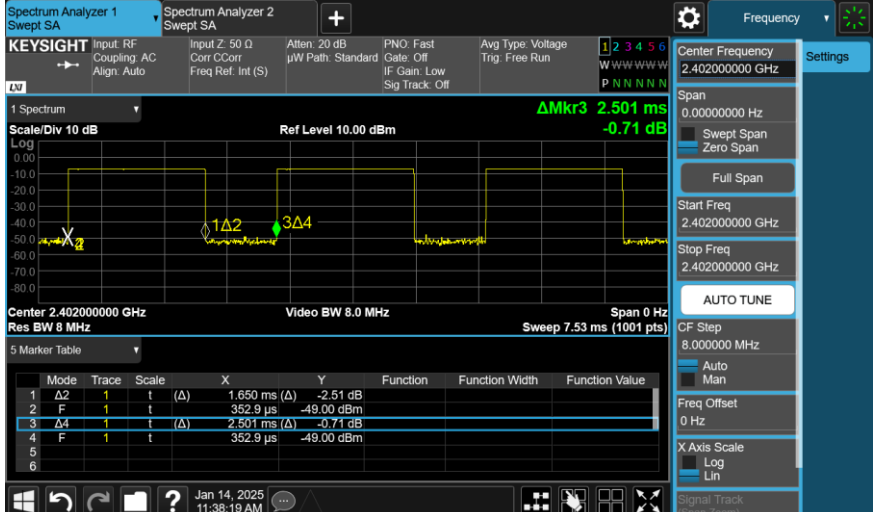
DH1



Center Frequency 2.402000000 GHz
Span 0.00000000 Hz
Start Freq 2.402000000 GHz
Stop Freq 2.402000000 GHz
AUTO TUNE
CF Step 8.000000 MHz
Freq Offset 0 Hz
X Axis Scale Log
Signal Track

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	1	t	(Δ)	390.0 μs (Δ)	2.77 dB	
2	F	1	t		610.8 μs	-53.35 dBm	
3	Δ4	1	t	(Δ)	1.250 ms (Δ)	-0.08 dB	
4	F	1	t		610.8 μs	-53.35 dBm	
5							
6							

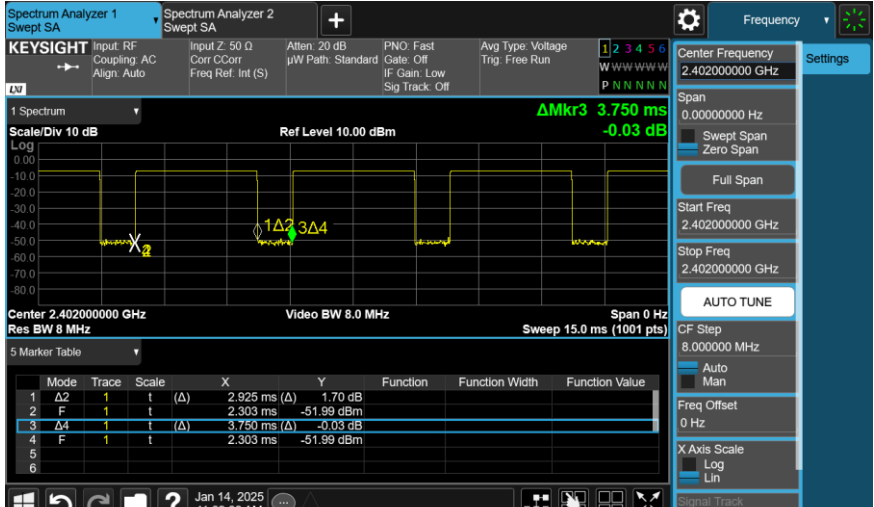
DH3



Center Frequency 2.402000000 GHz
Span 0.00000000 Hz
Start Freq 2.402000000 GHz
Stop Freq 2.402000000 GHz
AUTO TUNE
CF Step 8.000000 MHz
Freq Offset 0 Hz
X Axis Scale Log
Signal Track

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	1	t	(Δ)	1.650 ms (Δ)	-2.51 dB	
2	F	1	t		352.9 μs	-49.00 dBm	
3	Δ4	1	t	(Δ)	2.501 ms (Δ)	-0.71 dB	
4	F	1	t		352.9 μs	-49.00 dBm	
5							
6							

DH5

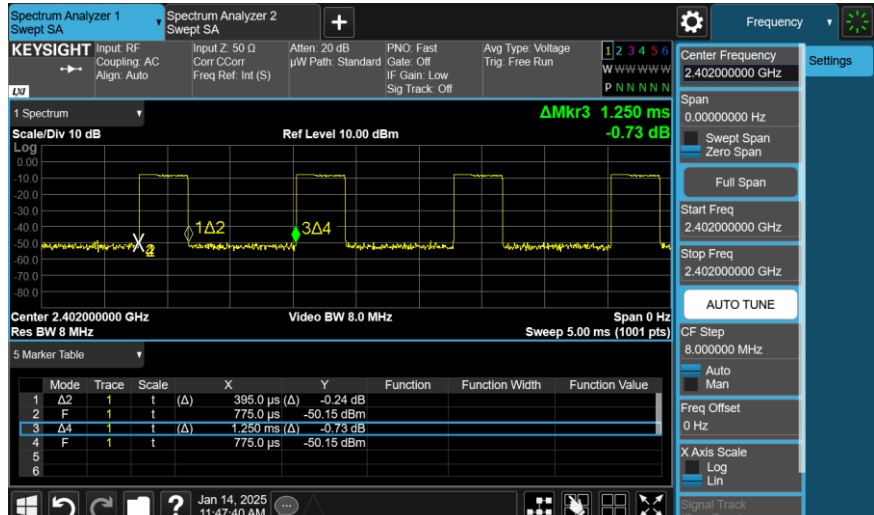


Center Frequency 2.402000000 GHz
Span 0.00000000 Hz
Start Freq 2.402000000 GHz
Stop Freq 2.402000000 GHz
AUTO TUNE
CF Step 8.000000 MHz
Freq Offset 0 Hz
X Axis Scale Log
Signal Track

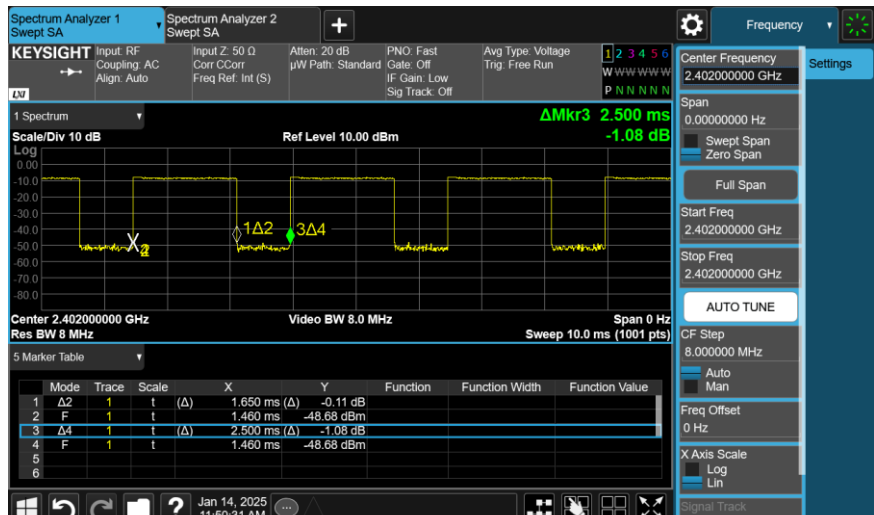
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	1	t	(Δ)	2.925 ms (Δ)	1.70 dB	
2	F	1	t		2.303 ms	-51.99 dBm	
3	Δ4	1	t	(Δ)	3.750 ms (Δ)	-0.03 dB	
4	F	1	t		2.303 ms	-51.99 dBm	
5							
6							

BT_π/4-DQPSK

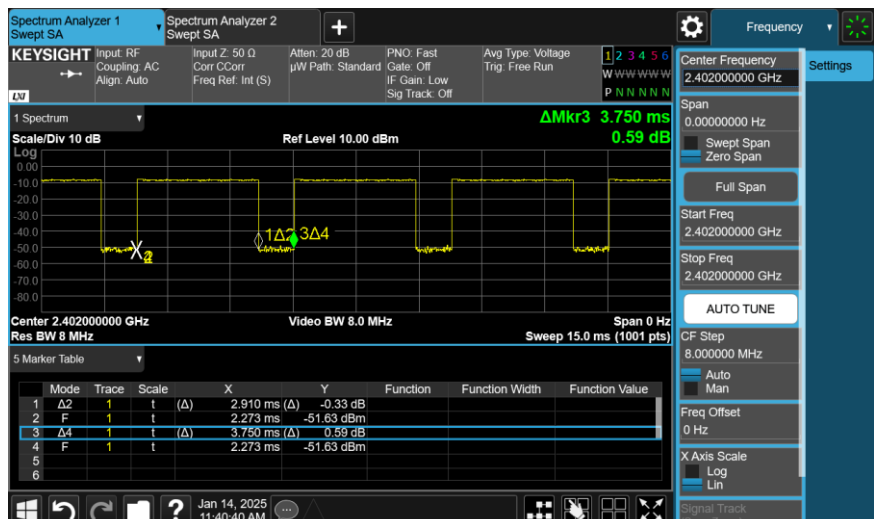
2DH1



2DH3

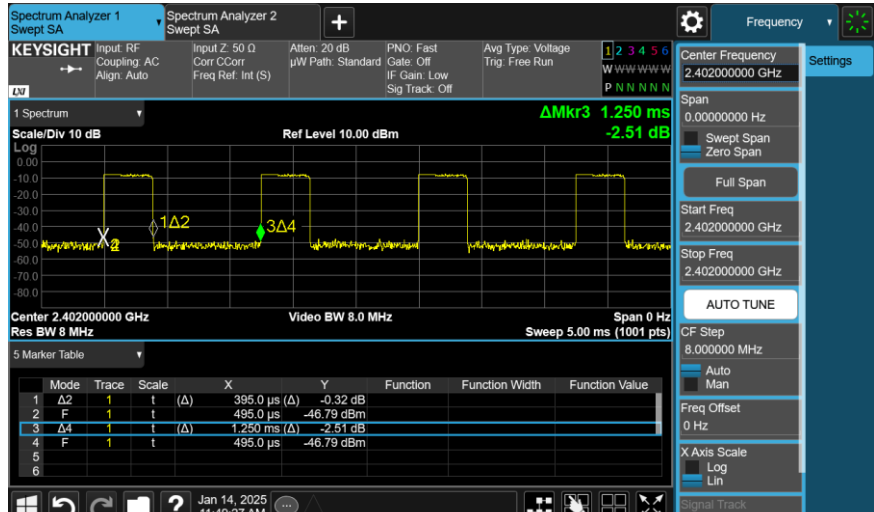


2DH5

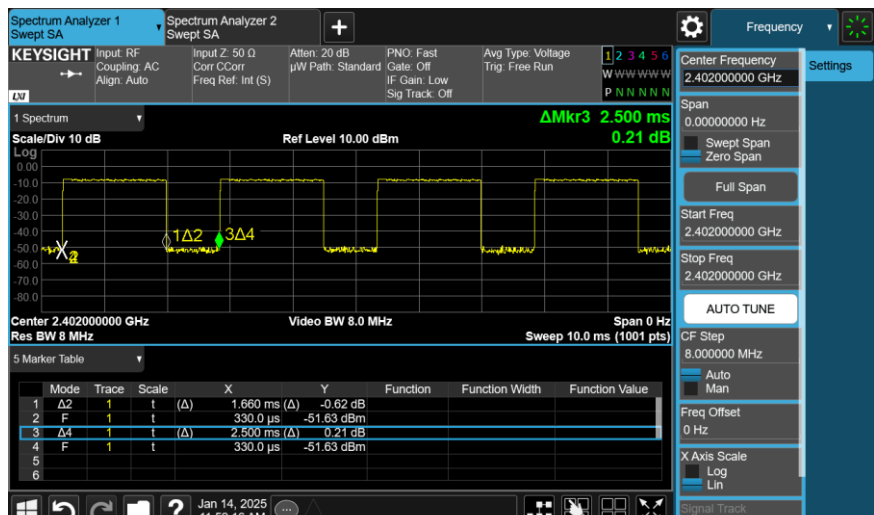


BT_8DPSK

3DH1



3DH3



3DH5

