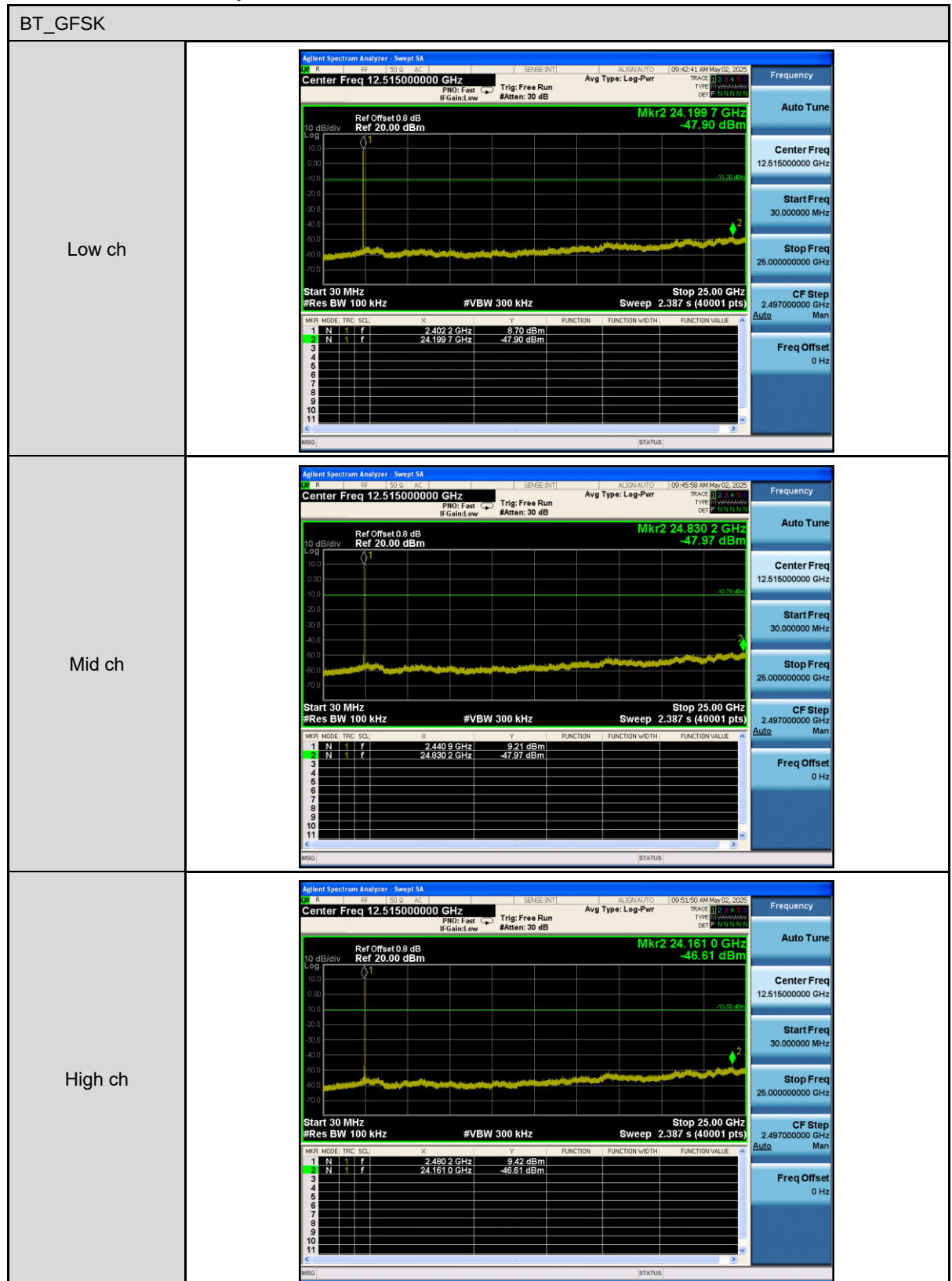


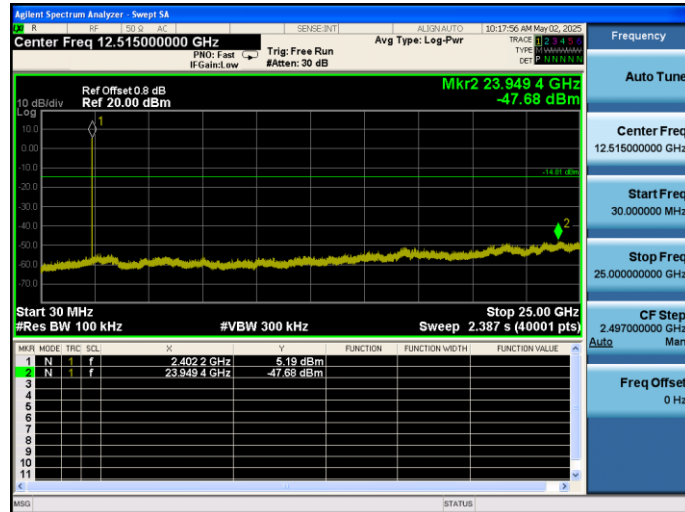
Appendix B. Test Plots

Out of Band Conducted Spurious Emission

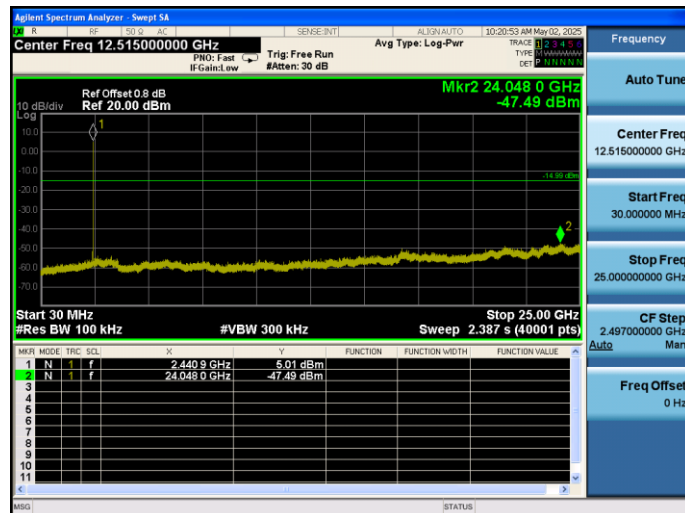


BT_8DPSK

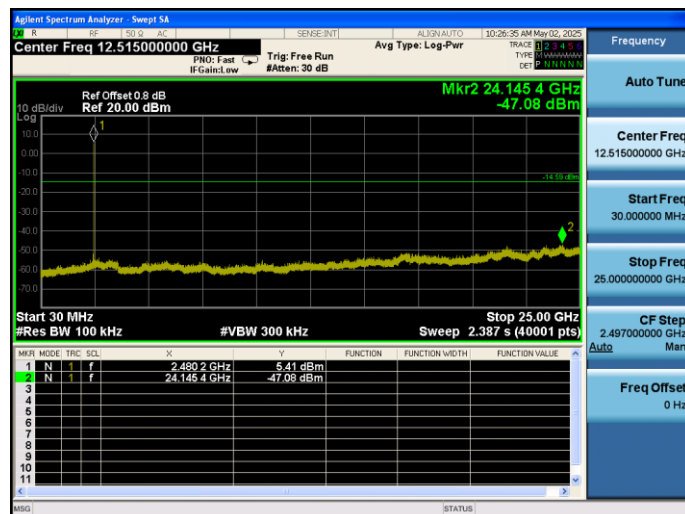
Low ch



Mid ch



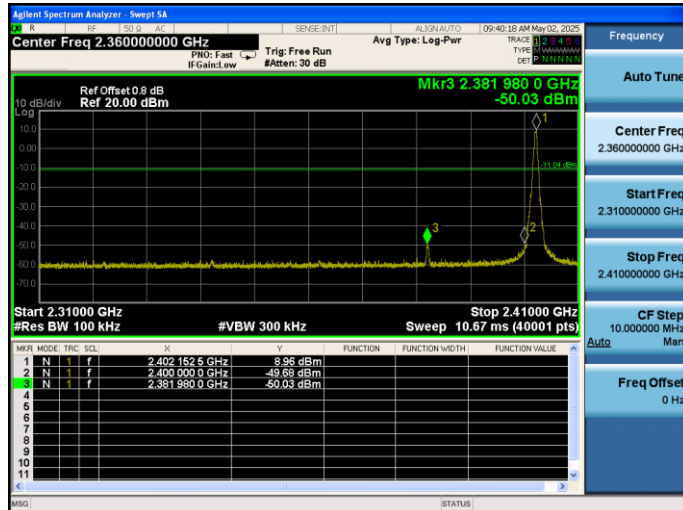
High ch



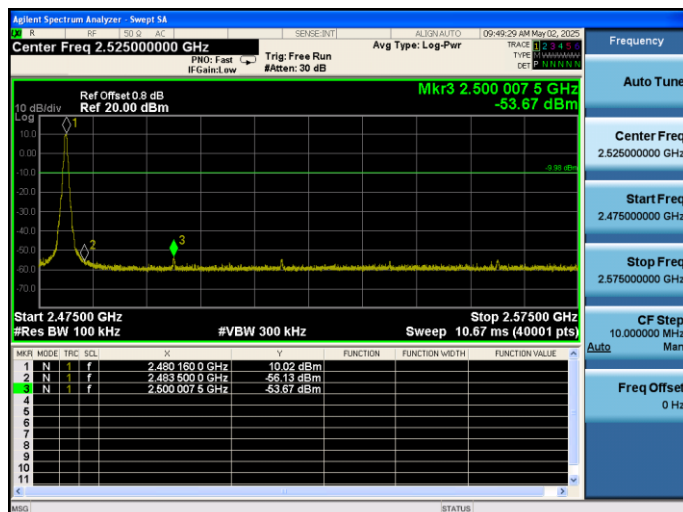
Conducted Band Edge

BT_GFSK_Non-Hopping

Low ch

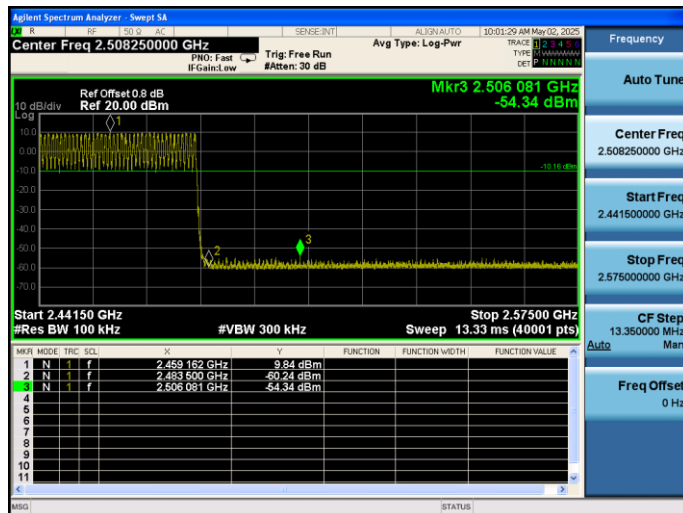
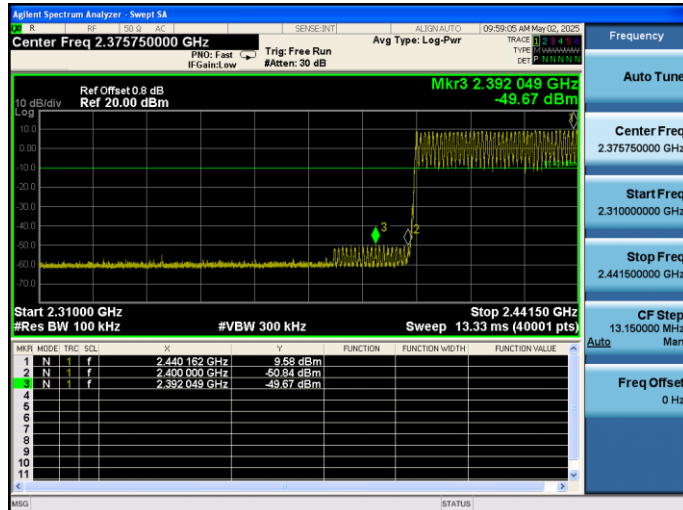


High ch



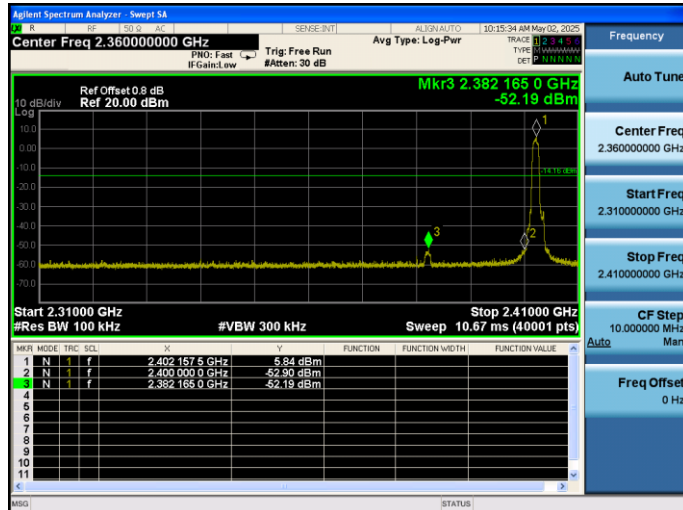
BT_GFSK_Hopping

Low ch-High ch

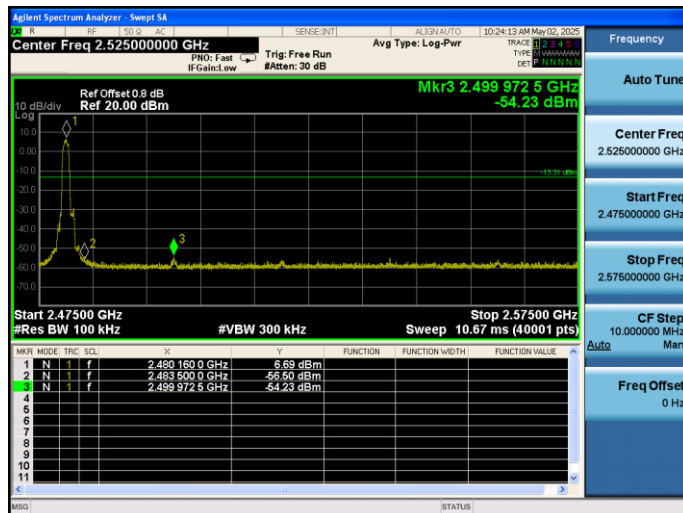


BT_8DPSK _Non-Hopping

Low ch

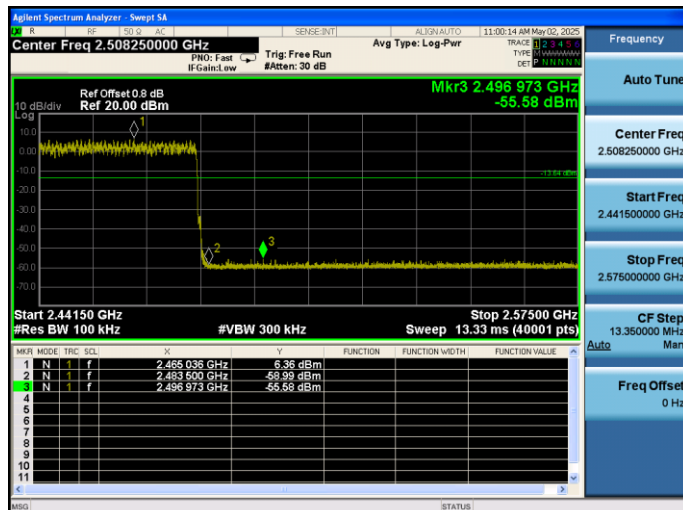
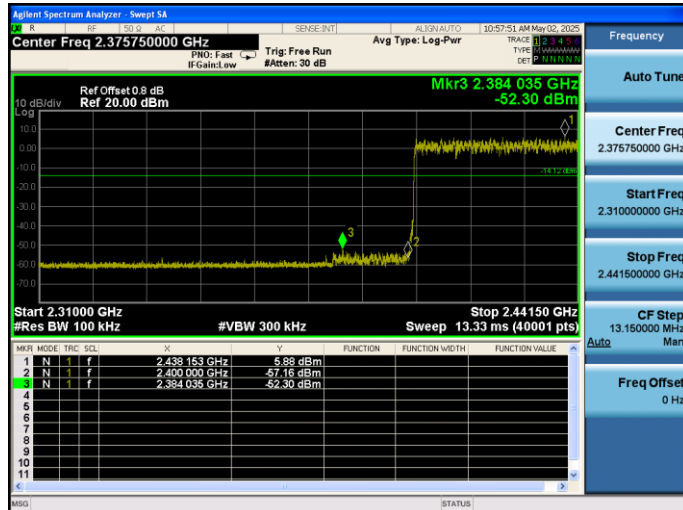


High ch



BT_8DPSK_Hopping

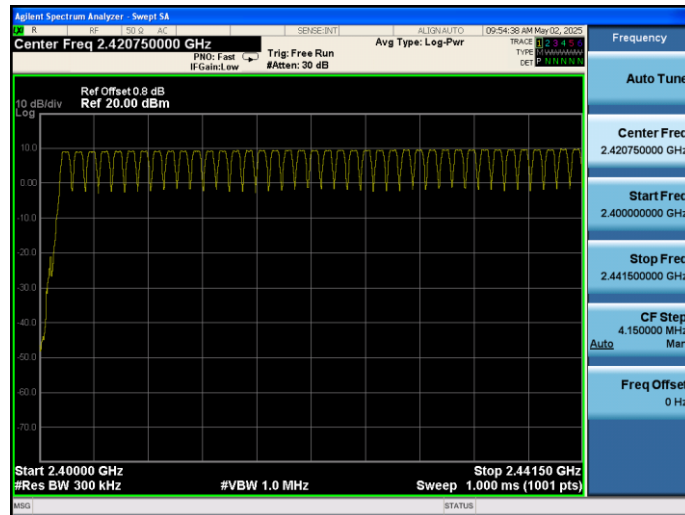
Low ch-High ch



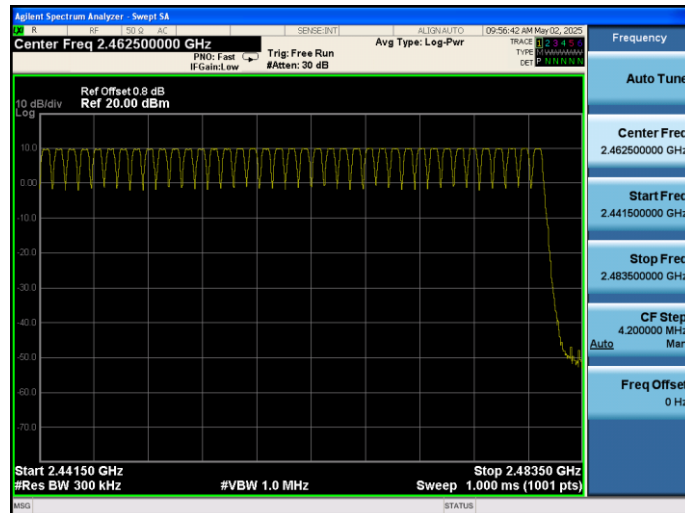
Number of Hopping

BT_GFSK

CH00 - CH39

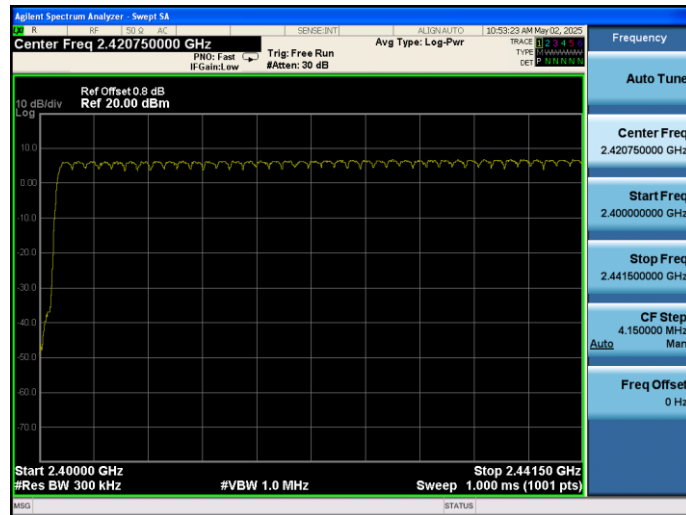


CH39- CH78

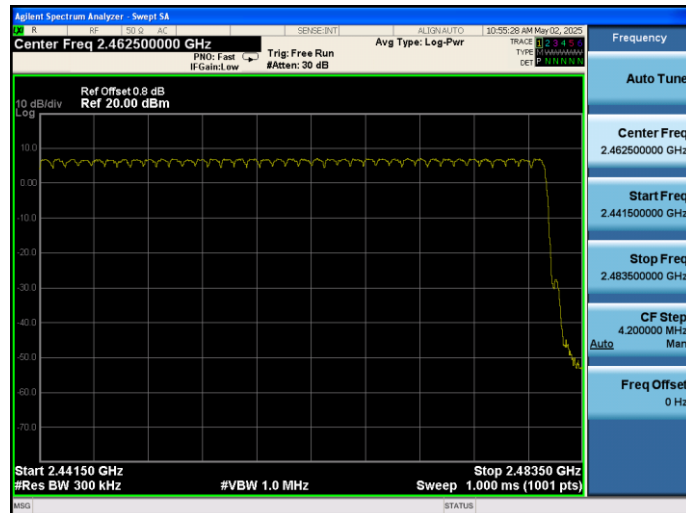


BT_8DPSK

CH00 - CH39

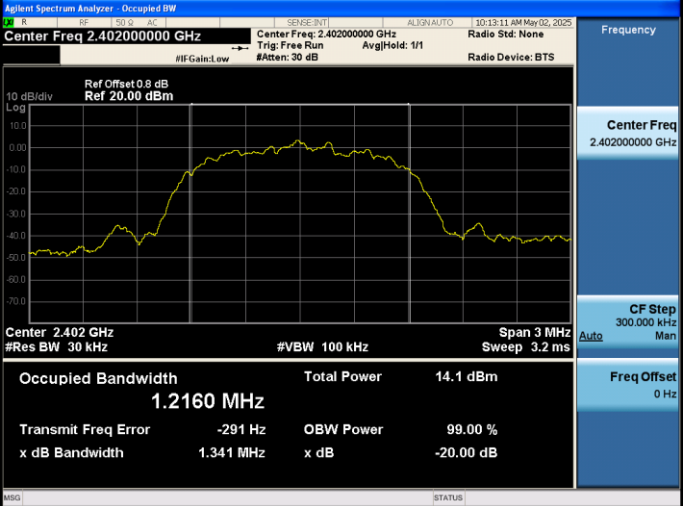
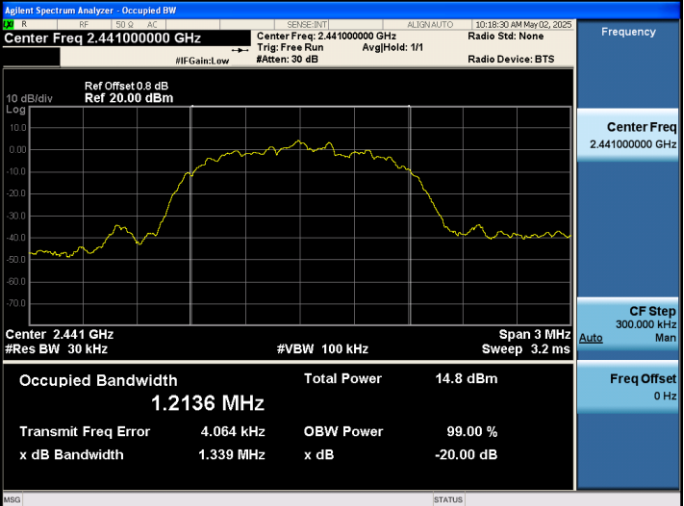
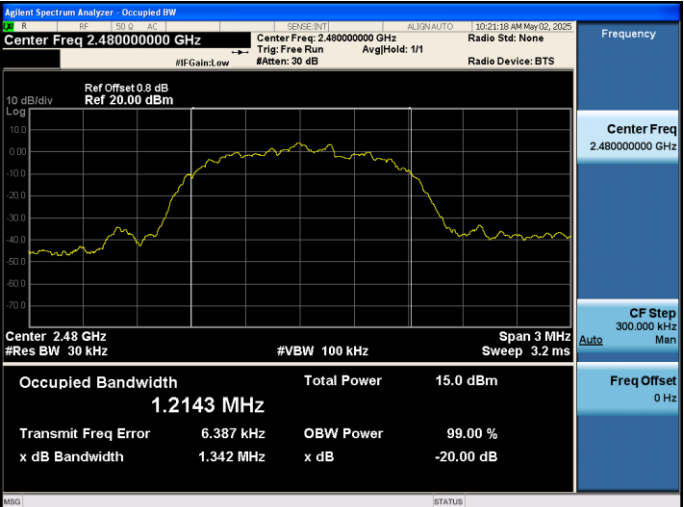


CH39- CH78



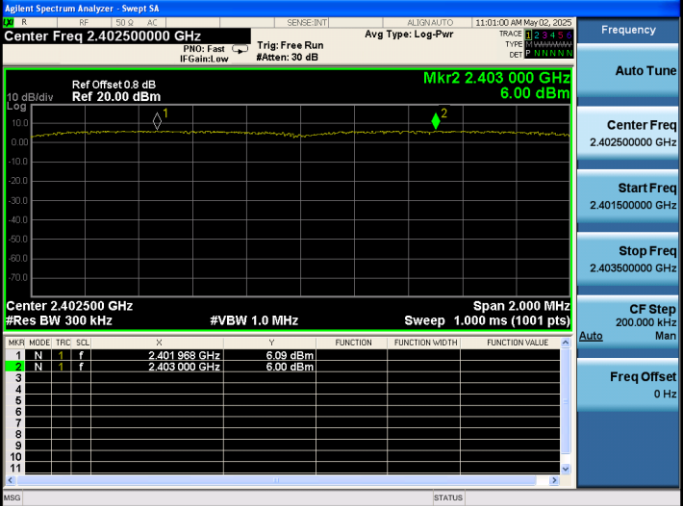
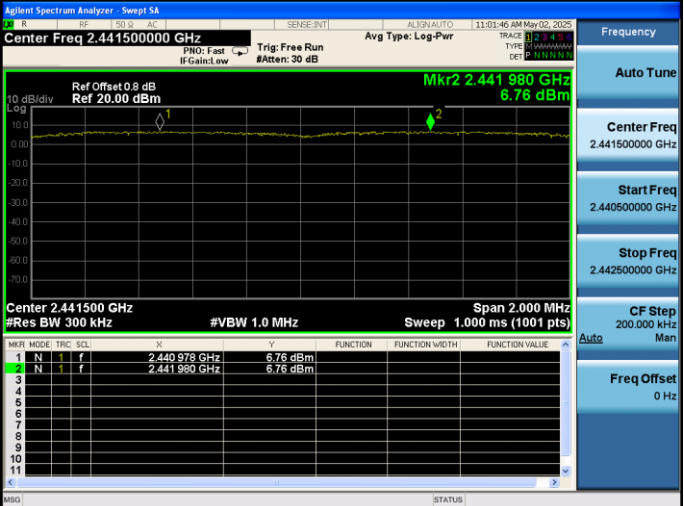
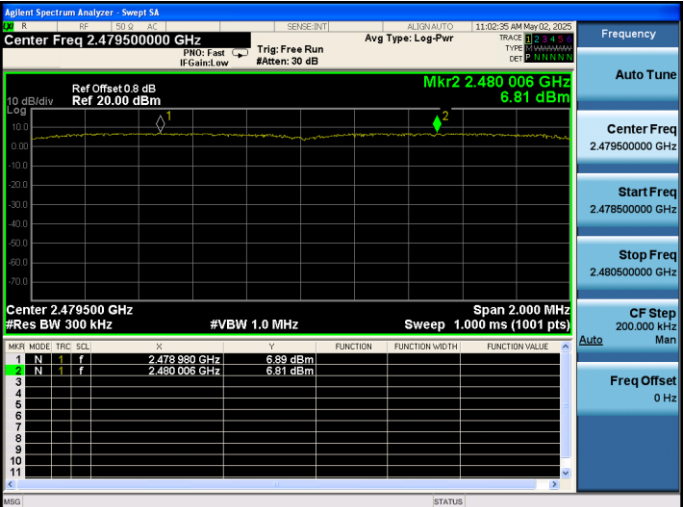
20 dB RF Bandwidth & 99 % Occupied Bandwidth

BT_GFSK	
Low ch	Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Ref Offset: 0.8 dB Ref: 20.00 dBm Occupied Bandwidth: 900.45 kHz Total Power: 16.4 dBm Transmit Freq Error: 4.838 kHz x dB Bandwidth: 994.5 kHz
Mid ch	Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 0.8 dB Ref: 20.00 dBm Occupied Bandwidth: 901.43 kHz Total Power: 17.2 dBm Transmit Freq Error: 6.379 kHz x dB Bandwidth: 988.7 kHz
High ch	Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.480000000 GHz Ref Offset: 0.8 dB Ref: 20.00 dBm Occupied Bandwidth: 903.05 kHz Total Power: 17.6 dBm Transmit Freq Error: 7.413 kHz x dB Bandwidth: 1.042 MHz

BT_8DPSK Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Ref Offset: 0.8 dB Ref: 20.00 dBm Occupied Bandwidth: 1.2160 MHz Total Power: 14.1 dBm Transmit Freq Error: -291 Hz OBW Power: 99.00 % x dB Bandwidth: 1.341 MHz x dB: -20.00 dB
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 0.8 dB Ref: 20.00 dBm Occupied Bandwidth: 1.2136 MHz Total Power: 14.8 dBm Transmit Freq Error: 4.064 kHz OBW Power: 99.00 % x dB Bandwidth: 1.339 MHz x dB: -20.00 dB
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.480000000 GHz Ref Offset: 0.8 dB Ref: 20.00 dBm Occupied Bandwidth: 1.2143 MHz Total Power: 15.0 dBm Transmit Freq Error: 6.387 kHz OBW Power: 99.00 % x dB Bandwidth: 1.342 MHz x dB: -20.00 dB

Carrier Frequency Separation

BT_GFSK																																																																																																													
Low ch	Agilent Spectrum Analyzer - Swept SA Center Freq 2.40250000 GHz Ref Offset 0.8 dB Ref 20.00 dBm 10 dB/div Log 1 2 Center 2.402500 GHz #Res BW 300 kHz #VBW 1.0 MHz Sweep 1.000 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</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>2.401852 GHz</td><td>8.94 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.403152 GHz</td><td>8.98 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></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><td></td></tr><tr><td>5</td><td></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><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG STATUS Frequency Auto Tune Center Freq 2.402500000 GHz Start Freq 2.401500000 GHz Stop Freq 2.403500000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.401852 GHz	8.94 dBm				2	N	1	f	2.403152 GHz	8.98 dBm				3									4									5									6									7									8									9									10									11								
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Mid ch	Agilent Spectrum Analyzer - Swept SA Center Freq 2.44150000 GHz Ref Offset 0.8 dB Ref 20.00 dBm 10 dB/div Log 1 2 Center 2.441500 GHz #Res BW 300 kHz #VBW 1.0 MHz Sweep 1.000 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</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>2.441164 GHz</td><td>9.56 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.442152 GHz</td><td>9.58 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></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><td></td></tr><tr><td>5</td><td></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><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG STATUS Frequency Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq 2.442500000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.441164 GHz	9.56 dBm				2	N	1	f	2.442152 GHz	9.58 dBm				3									4									5									6									7									8									9									10									11								
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High ch	Agilent Spectrum Analyzer - Swept SA Center Freq 2.47950000 GHz Ref Offset 0.8 dB Ref 20.00 dBm 10 dB/div Log 1 2 Center 2.479500 GHz #Res BW 300 kHz #VBW 1.0 MHz Sweep 1.000 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</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>2.479152 GHz</td><td>9.80 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.480176 GHz</td><td>9.80 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></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><td></td></tr><tr><td>5</td><td></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><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG STATUS Frequency Auto Tune Center Freq 2.479500000 GHz Start Freq 2.478500000 GHz Stop Freq 2.480500000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.479152 GHz	9.80 dBm				2	N	1	f	2.480176 GHz	9.80 dBm				3									4									5									6									7									8									9									10									11								
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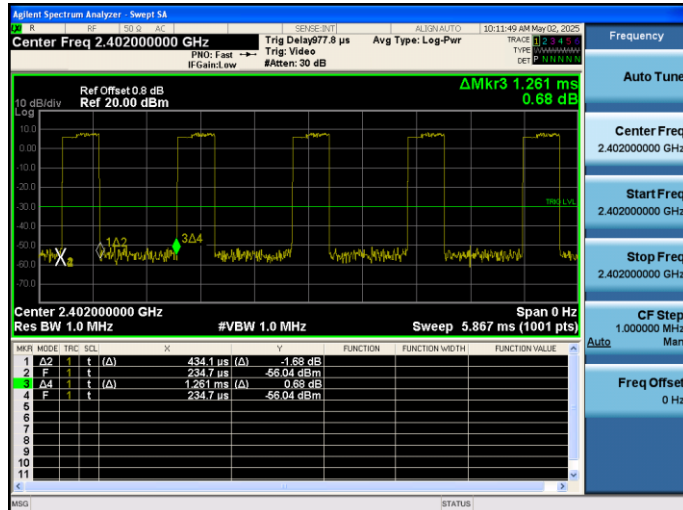
BT_8DPSK	
Mid ch	
High ch	

Time of Occupancy (Dwell Time)

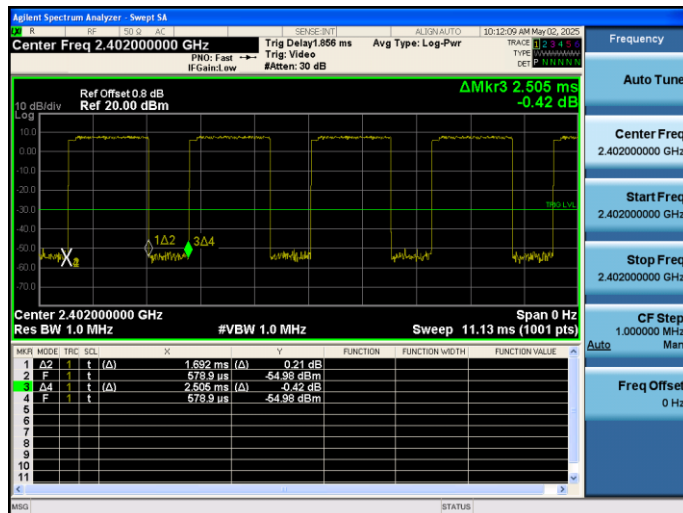
BT_GFSK																																														
DH1	Agilent Spectrum Analyzer - Sweep 1A Center Freq 2.402000000 GHz Trig Delay 977.8 μs Avg Type: Log-Pwr Ref Offset 0.8 dB Ref 20.00 dBm ΔMkr3 1.244 ms 2.68 dB Center 2.402000000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 5.867 ms (1001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>Δ2</td><td>t</td><td>(Δ)</td><td>416.5 μs</td><td>-1.23 dB</td><td></td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>t</td><td>(Δ)</td><td>240.5 μs</td><td>-56.68 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>Δ4</td><td>t</td><td>(Δ)</td><td>1.244 ms</td><td>2.68 dB</td><td></td><td></td><td></td></tr><tr><td>4</td><td>F</td><td>t</td><td>(Δ)</td><td>240.5 μs</td><td>-56.68 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	t	(Δ)	416.5 μ s	-1.23 dB				2	F	t	(Δ)	240.5 μ s	-56.68 dBm				3	Δ 4	t	(Δ)	1.244 ms	2.68 dB				4	F	t	(Δ)	240.5 μ s	-56.68 dBm			
MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																						
1	Δ 2	t	(Δ)	416.5 μ s	-1.23 dB																																									
2	F	t	(Δ)	240.5 μ s	-56.68 dBm																																									
3	Δ 4	t	(Δ)	1.244 ms	2.68 dB																																									
4	F	t	(Δ)	240.5 μ s	-56.68 dBm																																									
DH3	Agilent Spectrum Analyzer - Sweep 1A Center Freq 2.402000000 GHz Trig Delay 1.856 ms Avg Type: Log-Pwr Ref Offset 0.8 dB Ref 20.00 dBm ΔMkr3 2.494 ms -2.83 dB Center 2.402000000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.13 ms (1001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>Δ2</td><td>t</td><td>(Δ)</td><td>1.681 ms</td><td>-1.92 dB</td><td></td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>t</td><td>(Δ)</td><td>580.1 μs</td><td>-52.40 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>Δ4</td><td>t</td><td>(Δ)</td><td>2.494 ms</td><td>-2.83 dB</td><td></td><td></td><td></td></tr><tr><td>4</td><td>F</td><td>t</td><td>(Δ)</td><td>580.1 μs</td><td>-52.40 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	t	(Δ)	1.681 ms	-1.92 dB				2	F	t	(Δ)	580.1 μ s	-52.40 dBm				3	Δ 4	t	(Δ)	2.494 ms	-2.83 dB				4	F	t	(Δ)	580.1 μ s	-52.40 dBm			
MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																						
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3	Δ 4	t	(Δ)	2.494 ms	-2.83 dB																																									
4	F	t	(Δ)	580.1 μ s	-52.40 dBm																																									
DH5	Agilent Spectrum Analyzer - Sweep 1A Center Freq 2.402000000 GHz Trig Delay 2.789 ms Avg Type: Log-Pwr Ref Offset 0.8 dB Ref 20.00 dBm ΔMkr3 3.765 ms -1.22 dB Center 2.402000000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 16.73 ms (1001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>Δ2</td><td>t</td><td>(Δ)</td><td>2.979 ms</td><td>-0.42 dB</td><td></td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>t</td><td>(Δ)</td><td>870.1 μs</td><td>-53.41 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>Δ4</td><td>t</td><td>(Δ)</td><td>3.765 ms</td><td>-1.22 dB</td><td></td><td></td><td></td></tr><tr><td>4</td><td>F</td><td>t</td><td>(Δ)</td><td>870.1 μs</td><td>-53.41 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	t	(Δ)	2.979 ms	-0.42 dB				2	F	t	(Δ)	870.1 μ s	-53.41 dBm				3	Δ 4	t	(Δ)	3.765 ms	-1.22 dB				4	F	t	(Δ)	870.1 μ s	-53.41 dBm			
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BT_8DPSK

3DH1



3DH3



3DH5

