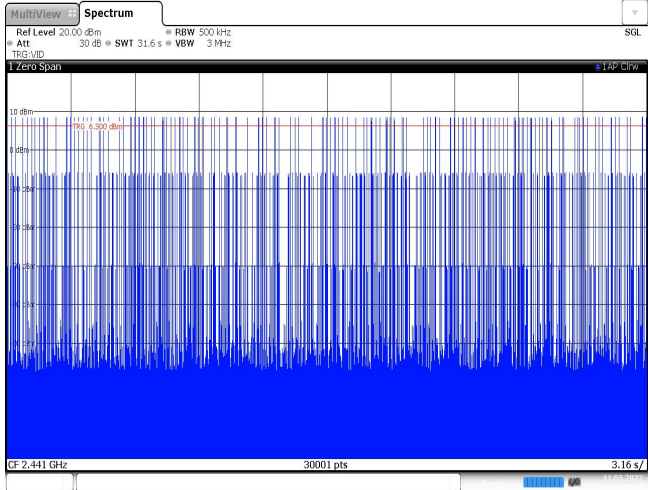
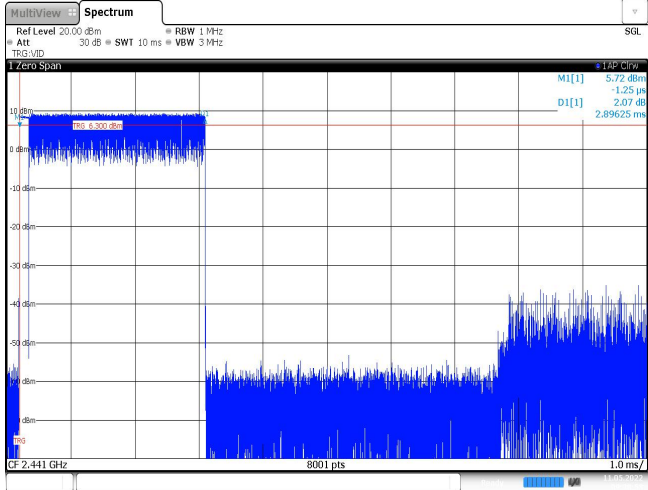
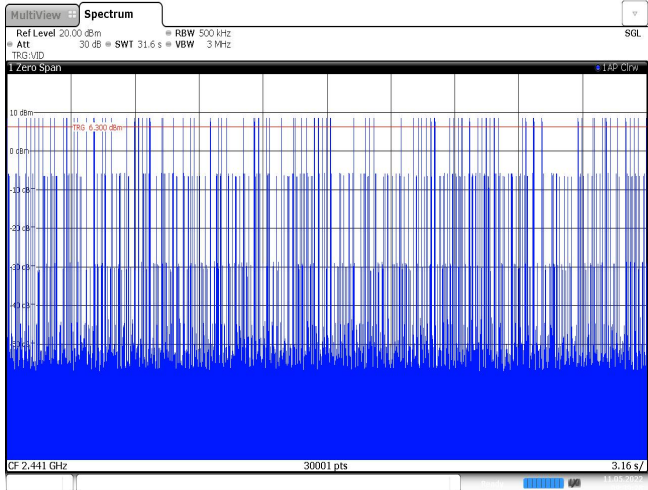
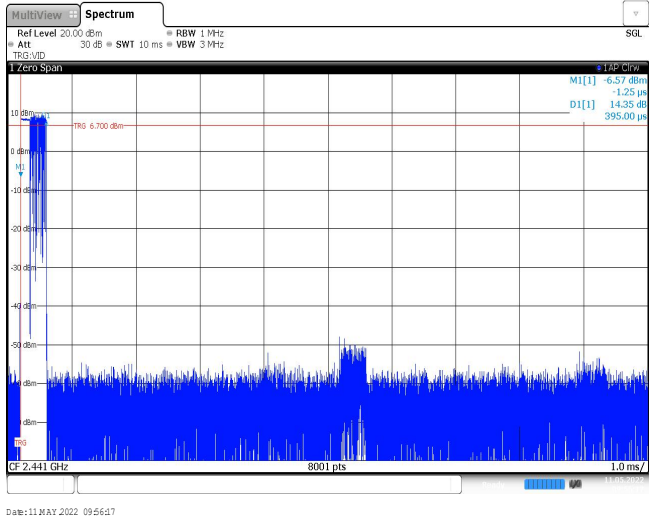
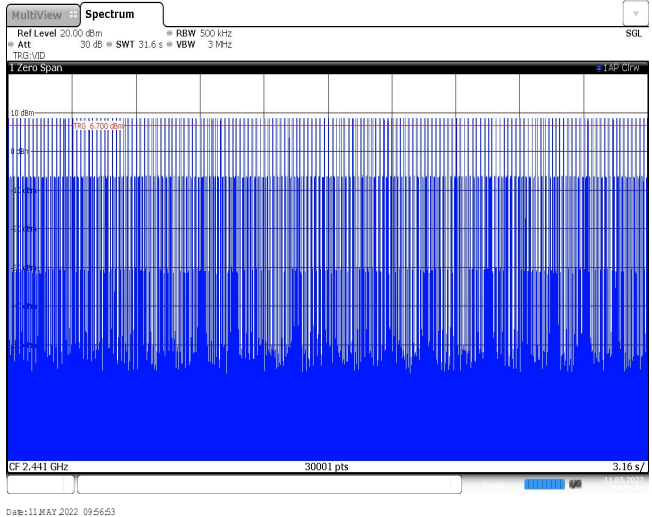
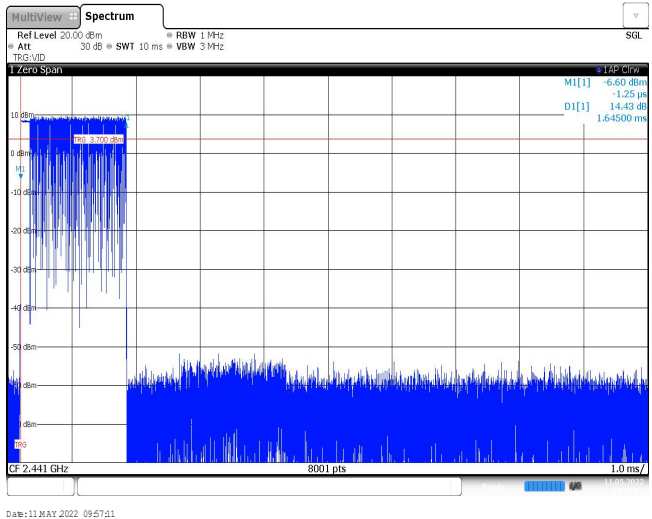
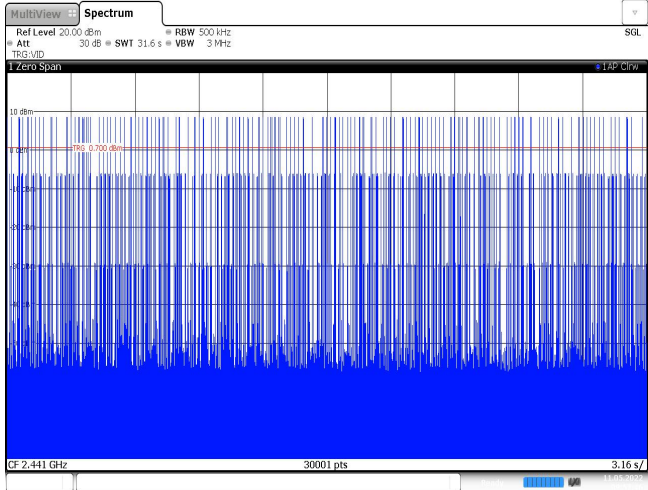
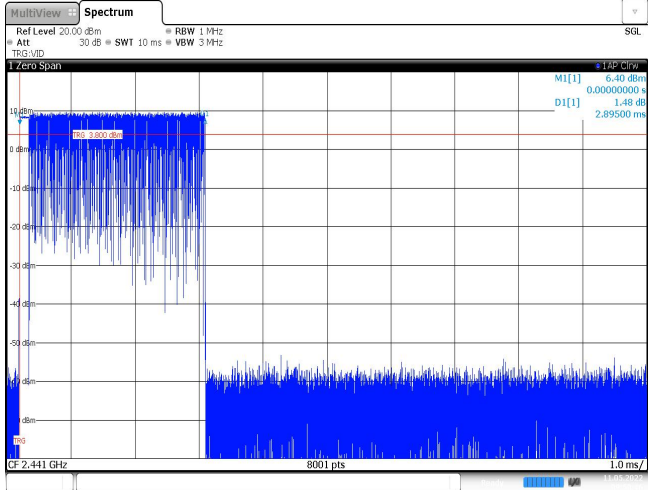
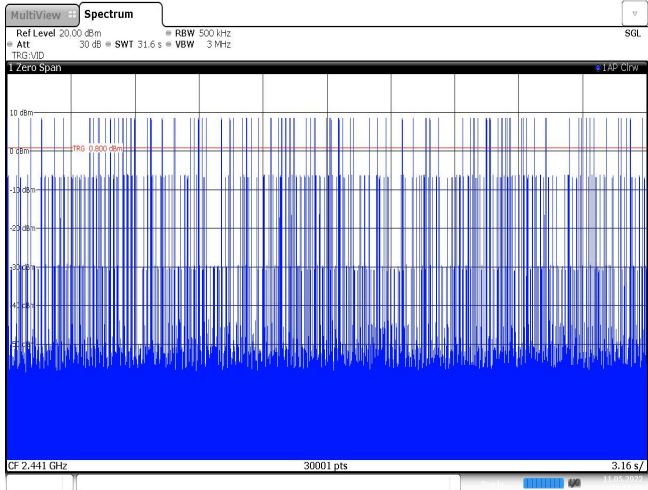


2DH3 Burst number	 The spectrum plot shows a dense signal across the frequency range from 2.441 GHz to 3.165 GHz. The y-axis represents power in dBm, ranging from -100 to 10. The signal is centered around 2.441 GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 Hz, SWT 31.6 s, VBW 3 MHz. The x-axis is labeled 'CF 2.441 GHz' and '30001 pts'. The date is 11 MAY 2022 09:55:46.
2DH5 Burst width	 The spectrum plot shows a signal burst between 2.441 GHz and 3.165 GHz. The y-axis represents power in dBm, ranging from -100 to 10. The signal is centered around 2.441 GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, SWT 10 ms, VBW 3 MHz. The x-axis is labeled 'CF 2.441 GHz' and '8001 pts'. The date is 11 MAY 2022 09:58:53. Additional parameters are shown: M[1] 5.72 dBm, D1[1] -1.25 μs, 2.07 dB, 2.89625 ms.
2DH5 Burst number	 The spectrum plot shows a dense signal across the frequency range from 2.441 GHz to 3.165 GHz. The y-axis represents power in dBm, ranging from -100 to 10. The signal is centered around 2.441 GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 Hz, SWT 31.6 s, VBW 3 MHz. The x-axis is labeled 'CF 2.441 GHz' and '30001 pts'. The date is 11 MAY 2022 09:59:28.

Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a single burst of 8DPSK signal. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red trace line indicates a peak power of 6.700 dBm. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 1 MHz. The signal is modulated with 8DPSK, showing a clear carrier and sidebands. Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz TSG VID SGL 1 Zero Span M1[1] -6.57 dBm D1[1] 14.35 dB 395.00 µs CF 2.441 GHz 8001 pts 1.0 ms/ Date: 11 MAY 2022 09:56:17
3DH1 Burst number	 The spectrum plot shows a continuous burst of 8DPSK signal. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red trace line indicates a peak power of 6.700 dBm. The plot shows a dense, continuous signal across the entire frequency range, indicating a high data rate or a long burst duration. Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz TSG VID SGL 1 Zero Span M1[1] -6.60 dBm D1[1] 14.43 dB 1.64500 ms CF 2.441 GHz 30001 pts 3.16 s/ Date: 11 MAY 2022 09:56:53
3DH3 Burst width	 The spectrum plot shows a single burst of 8DPSK signal. The y-axis represents power in dBm, ranging from -60 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red trace line indicates a peak power of 6.700 dBm. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 1 MHz. The signal is modulated with 8DPSK, showing a clear carrier and sidebands. Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz TSG VID SGL 1 Zero Span M1[1] -6.60 dBm D1[1] 14.43 dB 1.64500 ms CF 2.441 GHz 8001 pts 1.0 ms/ Date: 11 MAY 2022 09:57:11

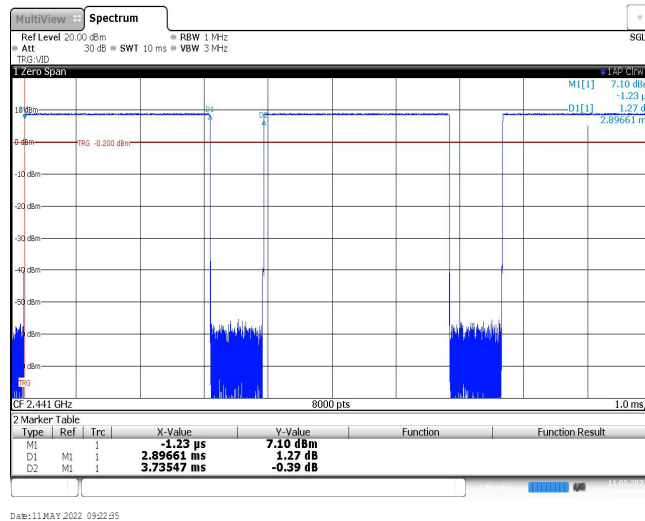
3DH3 Burst number	 The spectrum plot shows a dense, continuous signal across the frequency range from 2.441 GHz to 3.16 GHz. The signal level is relatively constant, with a peak around 0 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, and VSW 3 MHz. The x-axis is labeled 'CF 2.441 GHz' and '30001 pts'. The y-axis is labeled '1 Zero Span' and '10 dBm'. The date is 11 MAY 2022 09:57:46.
3DH5 Burst width	 The spectrum plot shows a signal that is concentrated in a narrow frequency band around 2.441 GHz, with a peak around 0 dBm. The signal level drops significantly outside this band. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, and VSW 3 MHz. The x-axis is labeled 'CF 2.441 GHz' and '8001 pts'. The y-axis is labeled '1 Zero Span' and '10 dBm'. The date is 11 MAY 2022 09:50:46.
3DH5 Burst number	 The spectrum plot shows a dense, continuous signal across the frequency range from 2.441 GHz to 3.16 GHz, similar to the 3DH3 plot. The signal level is relatively constant, with a peak around 0 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, and VSW 3 MHz. The x-axis is labeled 'CF 2.441 GHz' and '30001 pts'. The y-axis is labeled '1 Zero Span' and '10 dBm'. The date is 11 MAY 2022 09:51:23.

Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

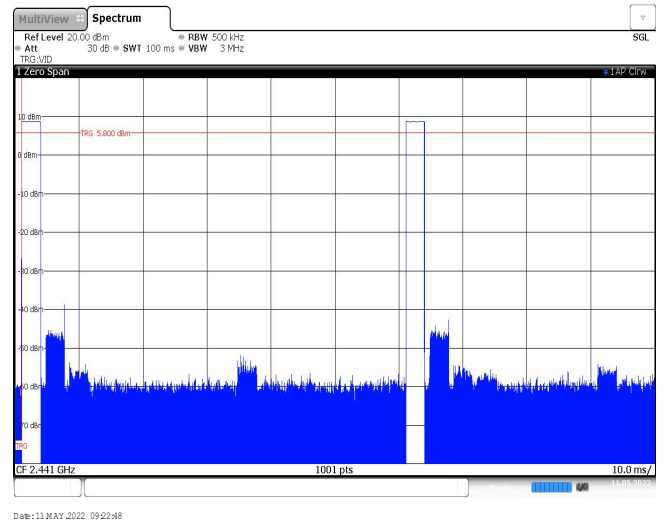
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.90	100	2	-24.73
$\pi/4$ DQPSK	2441	2.89	100	1	-30.78
8DPSK	2441	2.89	100	1	-30.78

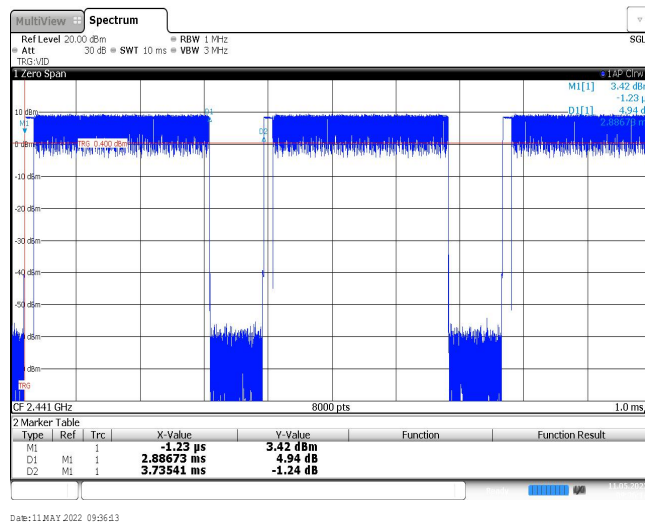
GFSK



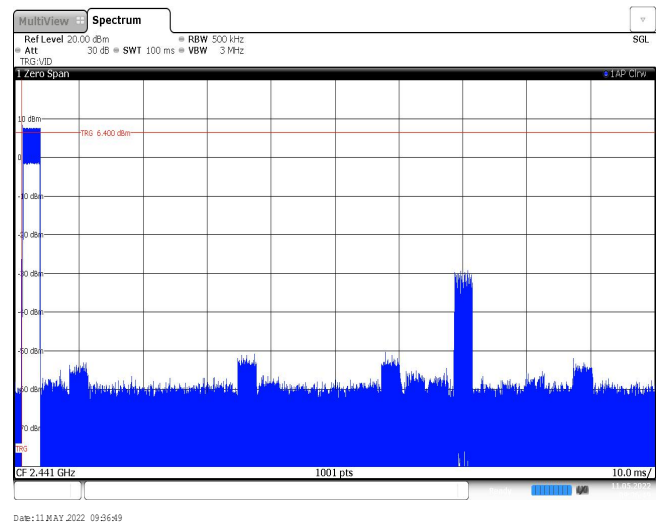
Ton time for single burst



Burst Quantity

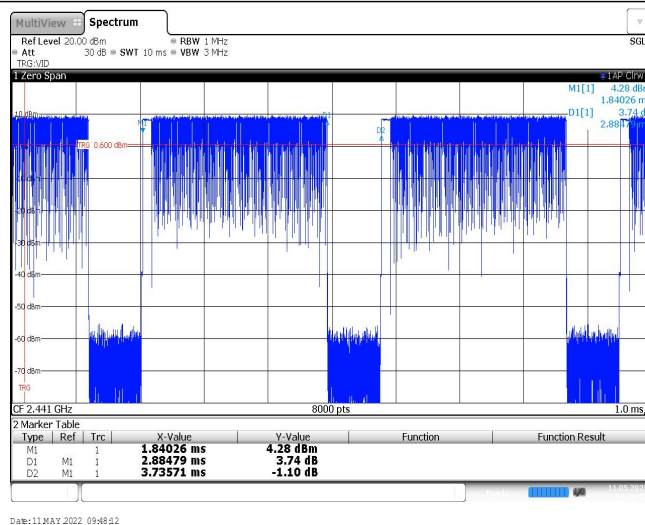
 $\pi/4$ DQPSK

Ton time for single burst

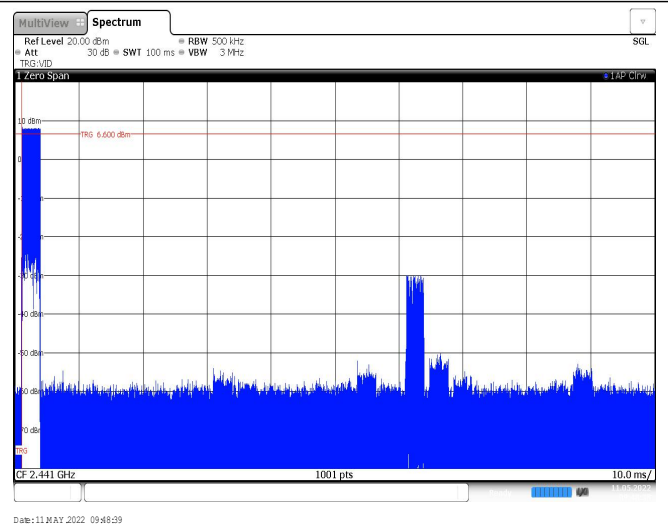


Burst Quantity

8DPSK



Ton time for single burst

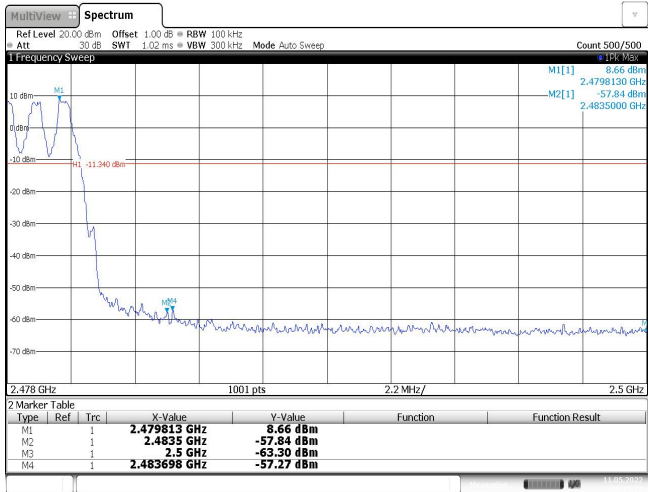


Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

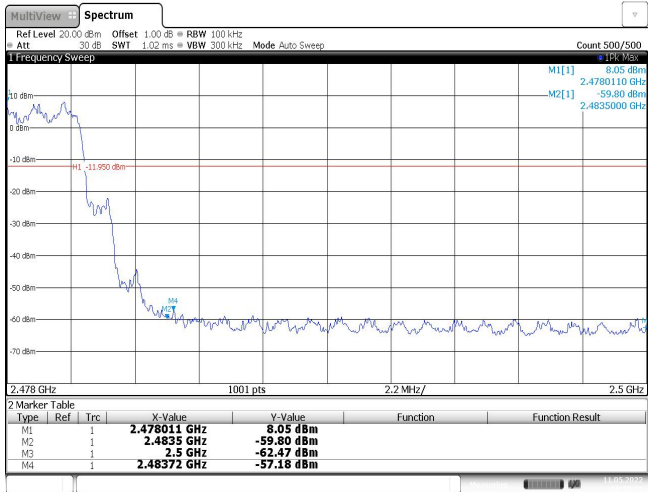
Test Item:	Band edge	Modulation type:	GFSK
CH00 No hopping mode	</		

CH78
Hopping mode



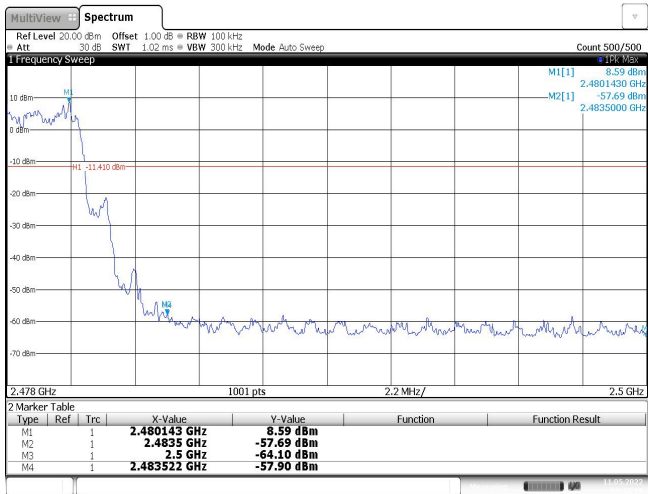
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK
CH00 No hopping mode	<		

CH78
Hopping mode

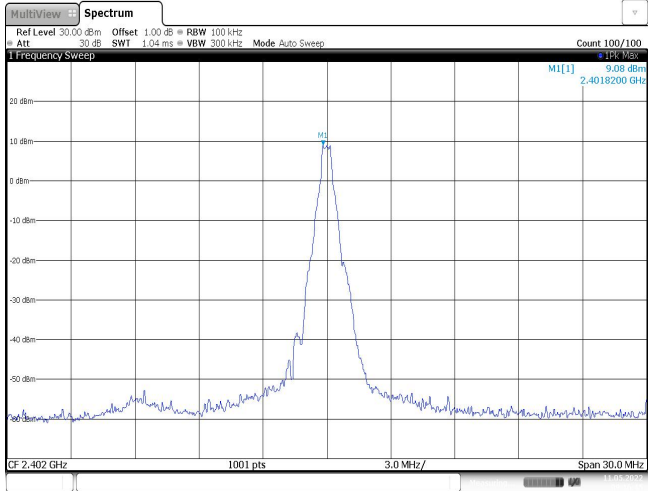
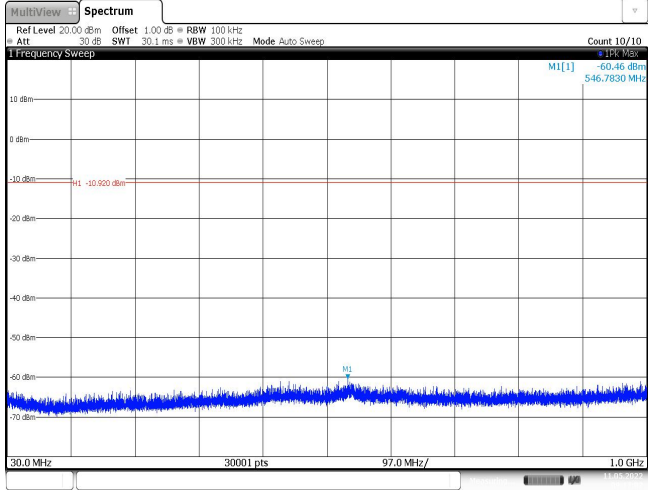
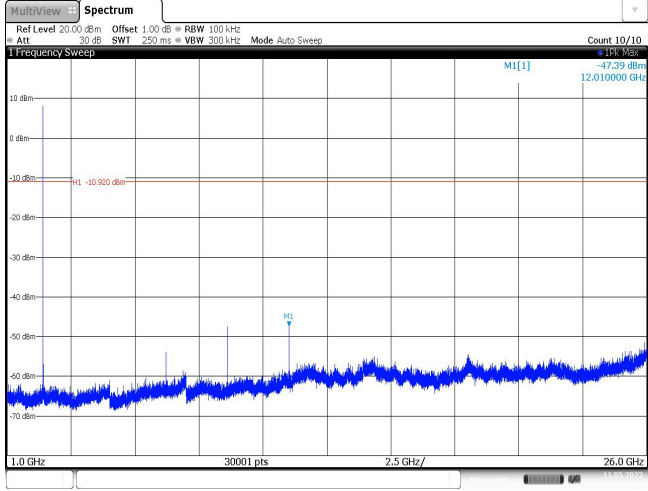


Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 -11.400 dBm M2 M3 M4 M5 M1 [1] 8.54 dBm M2 [1] 2.4021050 GHz M2 [1] -39.22 dBm M2 [1] 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.402105 GHz</td><td>8.54 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-39.22 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.56 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.02 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39949 GHz</td><td>-35.48 dBm</td><td></td><td></td></tr></table> Date: 11 MAY 2022 09:41:05			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	8.54 dBm			M2	1		2.4 GHz	-39.22 dBm			M3	1		2.39 GHz	-62.56 dBm			M4	1		2.31 GHz	-63.02 dBm			M5	1		2.39949 GHz	-35.48 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	8.54 dBm																																									
M2	1		2.4 GHz	-39.22 dBm																																									
M3	1		2.39 GHz	-62.56 dBm																																									
M4	1		2.31 GHz	-63.02 dBm																																									
M5	1		2.39949 GHz	-35.48 dBm																																									
CH00 Hopping mode	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M1 [1] 8.59 dBm M2 [1] 2.4027700 GHz M2 [1] -42.46 dBm M2 [1] 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40277 GHz</td><td>8.59 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-42.46 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.56 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.11 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399775 GHz</td><td>-40.18 dBm</td><td></td><td></td></tr></table> Date: 11 MAY 2022 09:49:59			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40277 GHz	8.59 dBm			M2	1		2.4 GHz	-42.46 dBm			M3	1		2.39 GHz	-63.56 dBm			M4	1		2.31 GHz	-63.11 dBm			M5	1		2.399775 GHz	-40.18 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40277 GHz	8.59 dBm																																									
M2	1		2.4 GHz	-42.46 dBm																																									
M3	1		2.39 GHz	-63.56 dBm																																									
M4	1		2.31 GHz	-63.11 dBm																																									
M5	1		2.399775 GHz	-40.18 dBm																																									
CH78 No hopping mode	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M1 [1] 8.61 dBm M2 [1] 2.4798130 GHz M2 [1] -56.63 dBm M2 [1] 2.4835000 GHz 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.479813 GHz</td><td>8.61 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-56.63 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-62.82 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.48361 GHz</td><td>-54.36 dBm</td><td></td><td></td></tr></table> Date: 11 MAY 2022 09:43:49			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479813 GHz	8.61 dBm			M2	1		2.4835 GHz	-56.63 dBm			M3	1		2.5 GHz	-62.82 dBm			M4	1		2.48361 GHz	-54.36 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479813 GHz	8.61 dBm																																									
M2	1		2.4835 GHz	-56.63 dBm																																									
M3	1		2.5 GHz	-62.82 dBm																																									
M4	1		2.48361 GHz	-54.36 dBm																																									

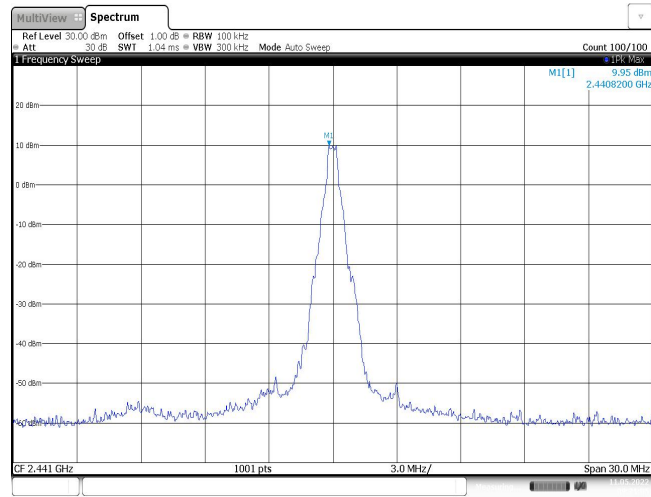
CH78
Hoppig mode



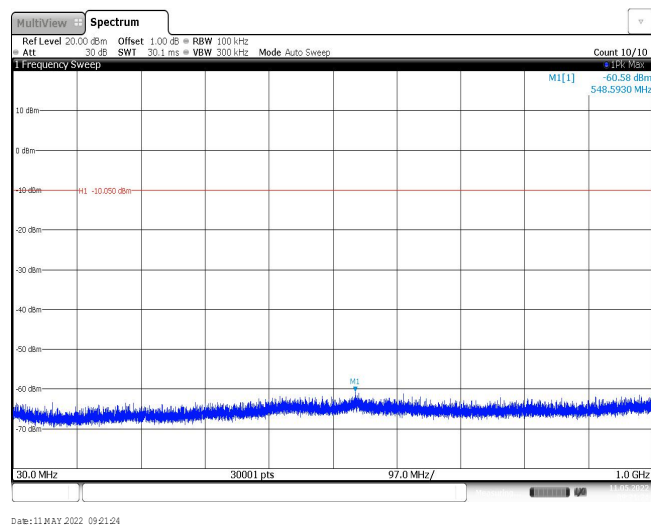
Date:11 MAY 2022 09:50:15

Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level	 Date: 11 MAY 2022 09:16:45		
CH00 30MHz~1000MHz	 Date: 11 MAY 2022 09:17:02		
CH00 1GHz~26GHz	 Date: 11 MAY 2022 09:17:21		

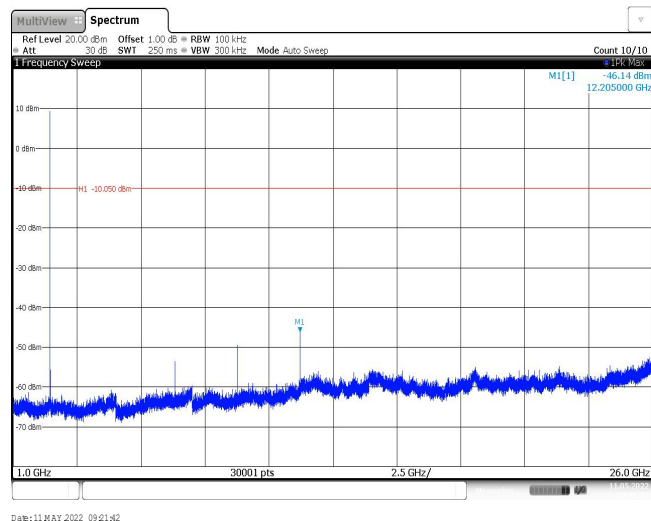
CH39
Reference level



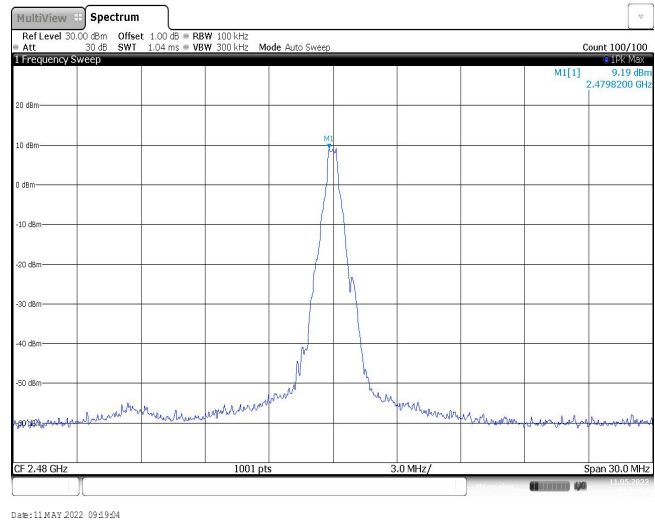
CH39
30MHz~1000MHz



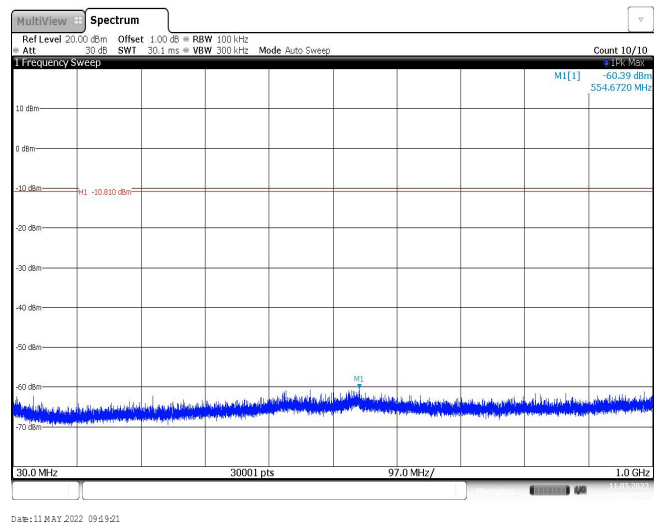
CH39
1GHz~26GHz



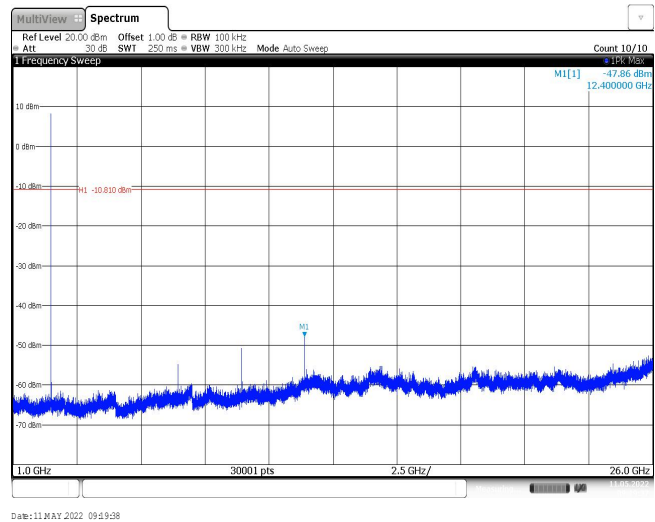
CH78
Reference level

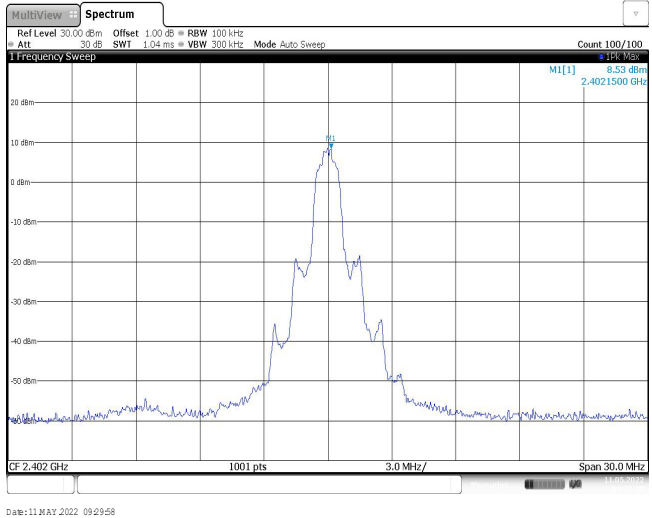
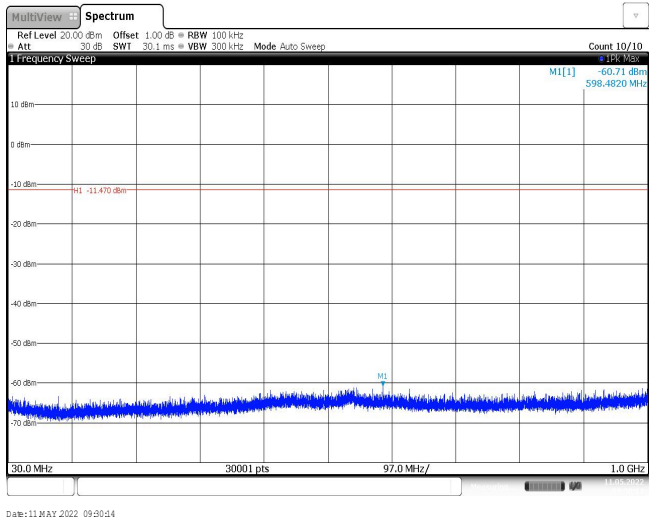


CH78
30MHz~1000MHz



CH78
1GHz~26GHz



Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz	