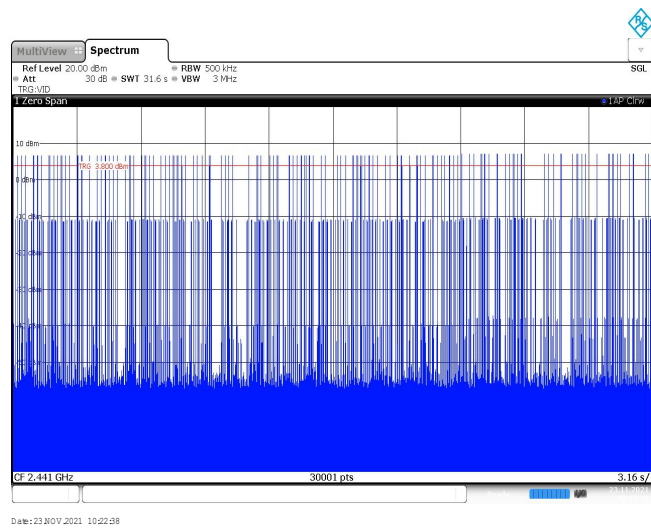
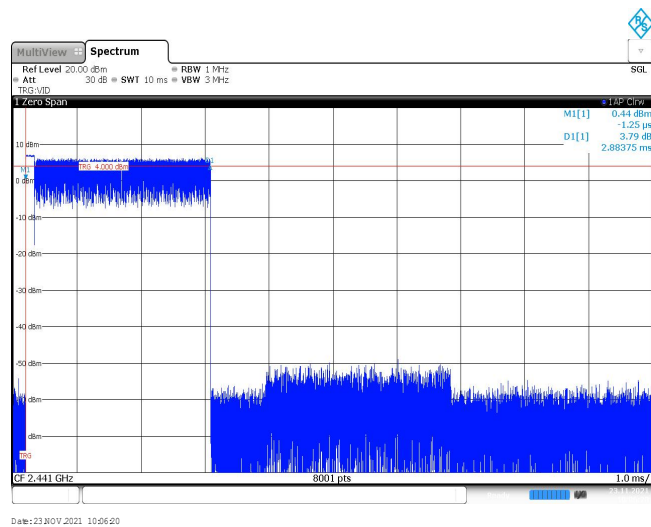


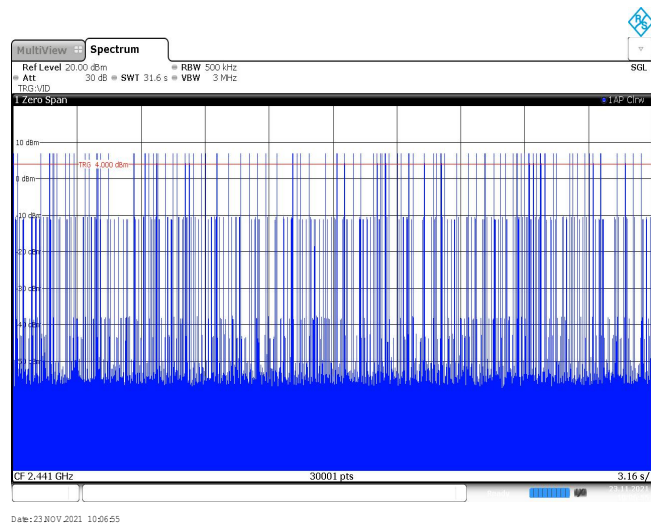
2DH3
Burst number

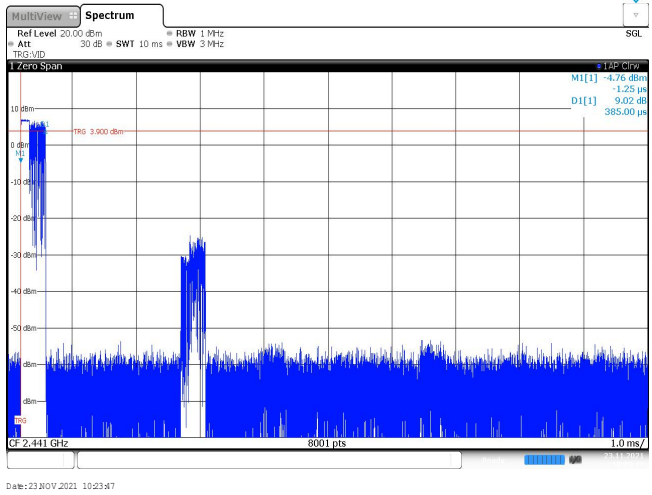
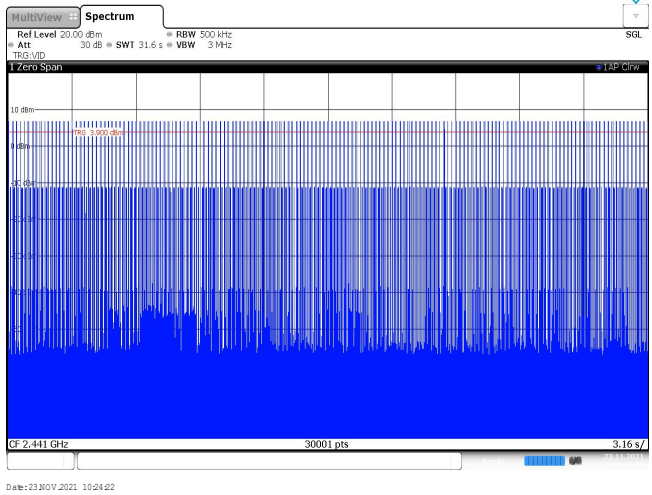
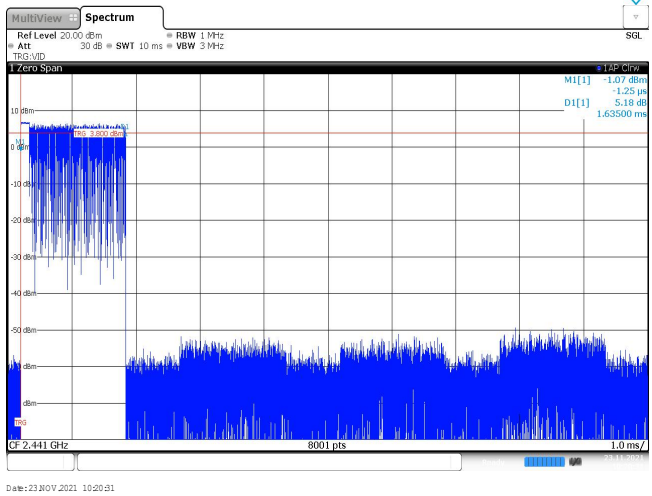


2DH5
Burst width

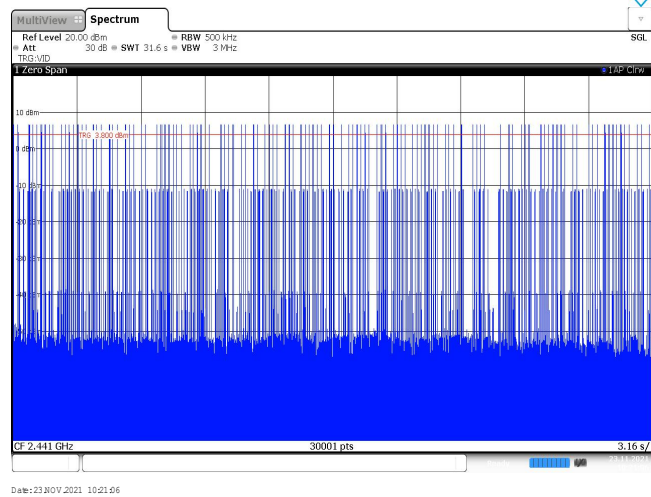


2DH5
Burst number

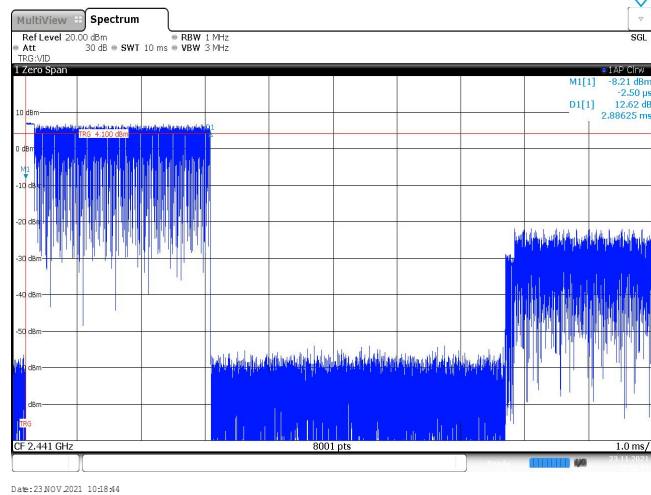


Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a signal burst at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, ranging from 2.440 to 2.442. The plot shows a sharp peak at 2.441 GHz, indicating the burst. The signal is labeled as 3DH1. The plot also shows the signal's bandwidth and power spectral density. MultiView Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz TSG VID 1 Zero Span CF 2.441 GHz 8001 pts 1.0 ms MI[1] -4.76 dBm D1[1] 9.02 dB 385.00 µs Date: 23 NOV 2021 10:23:47
3DH1 Burst number	 The spectrum plot shows a signal burst at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, ranging from 2.440 to 2.442. The plot shows a sharp peak at 2.441 GHz, indicating the burst. The signal is labeled as 3DH1. The plot also shows the signal's bandwidth and power spectral density. MultiView Spectrum Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz TSG VID 1 Zero Span CF 2.441 GHz 30001 pts 3.16 s Date: 23 NOV 2021 10:24:22
3DH3 Burst width	 The spectrum plot shows a signal burst at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, ranging from 2.440 to 2.442. The plot shows a sharp peak at 2.441 GHz, indicating the burst. The signal is labeled as 3DH3. The plot also shows the signal's bandwidth and power spectral density. MultiView Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz TSG VID 1 Zero Span CF 2.441 GHz 8001 pts 1.0 ms MI[1] -1.07 dBm D1[1] 5.18 dB 1.63550 ms Date: 23 NOV 2021 10:20:51

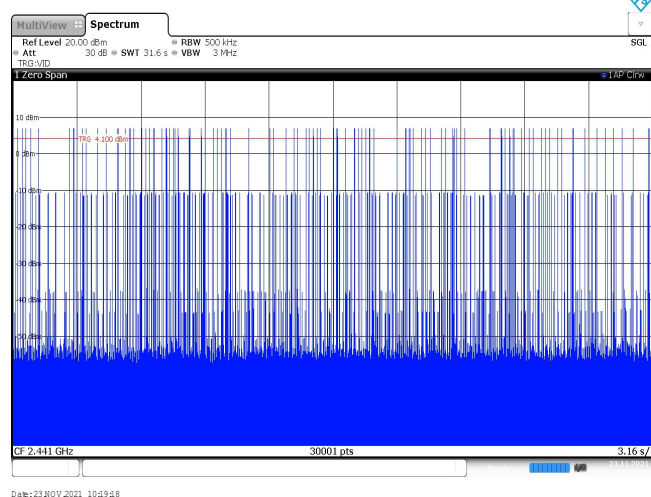
3DH3
Burst number



3DH5
Burst width



3DH5
Burst number

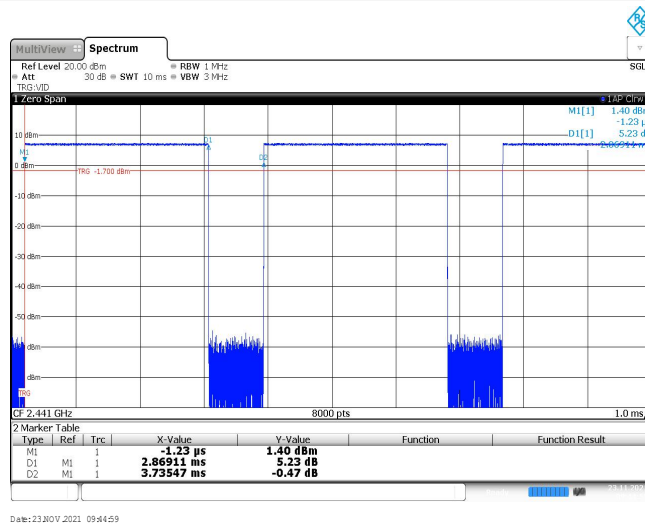


Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

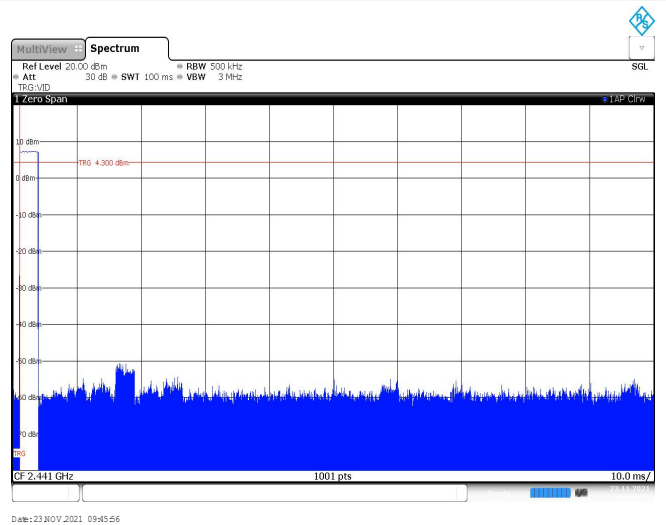
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.87	100	1	-30.84
$\pi/4$ DQPSK	2441	2.87	100	1	-30.84
8DPSK	2441	2.87	100	1	-30.84

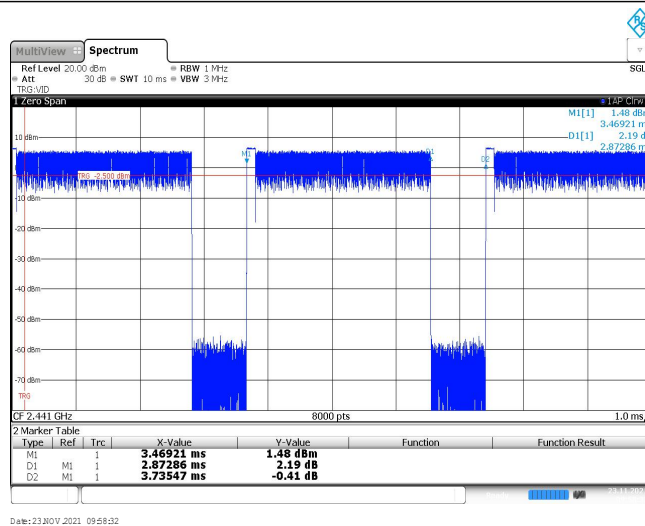
GFSK



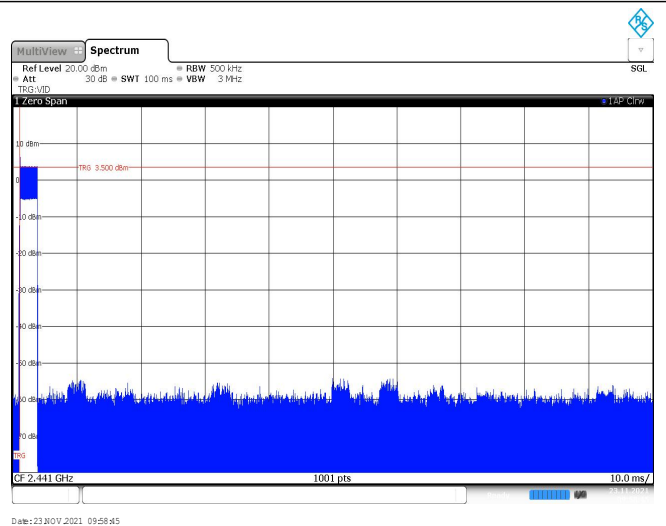
Ton time for single burst



Burst Quantity

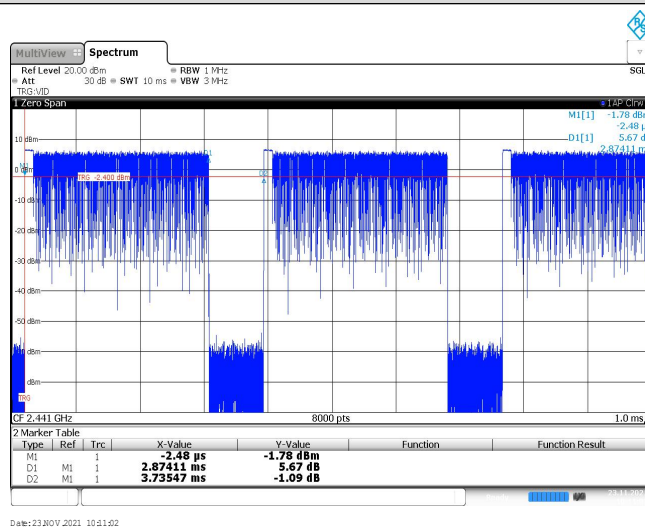
 $\pi/4$ DQPSK

Ton time for single burst

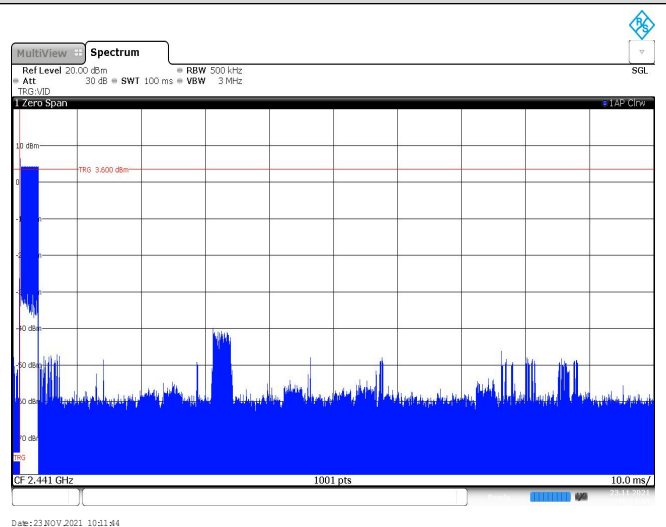


Burst Quantity

8DPSK

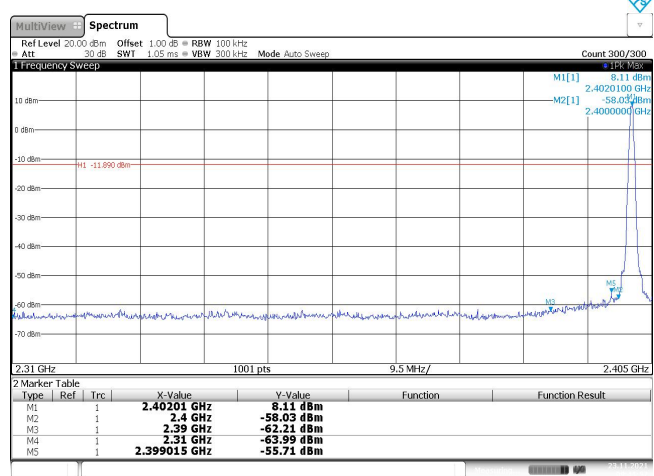
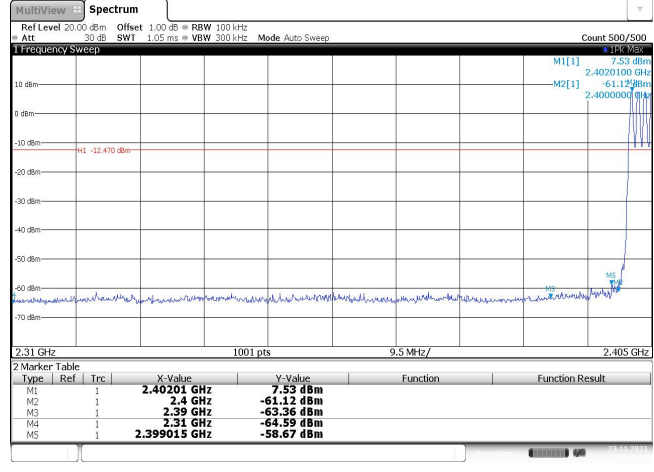
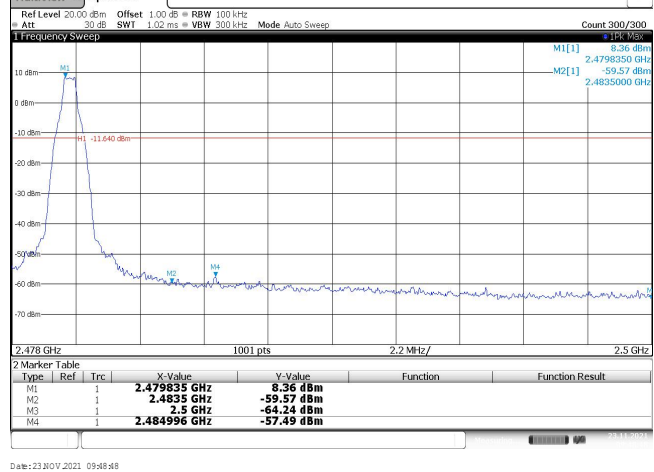


Ton time for single burst

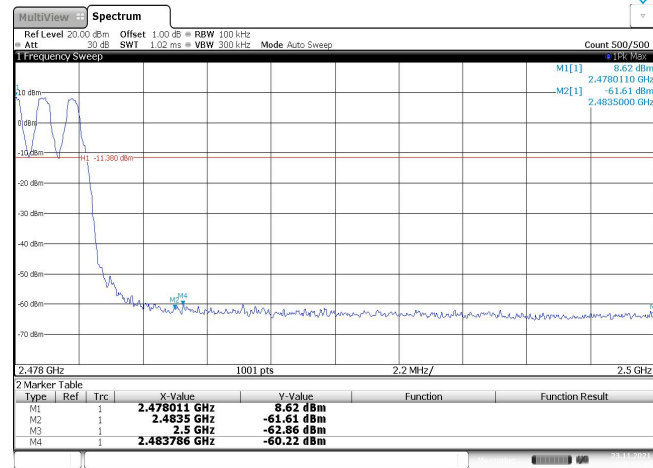


Burst Quantity

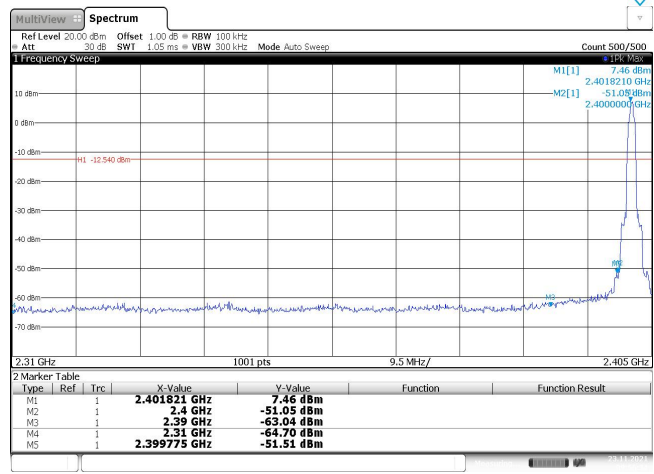
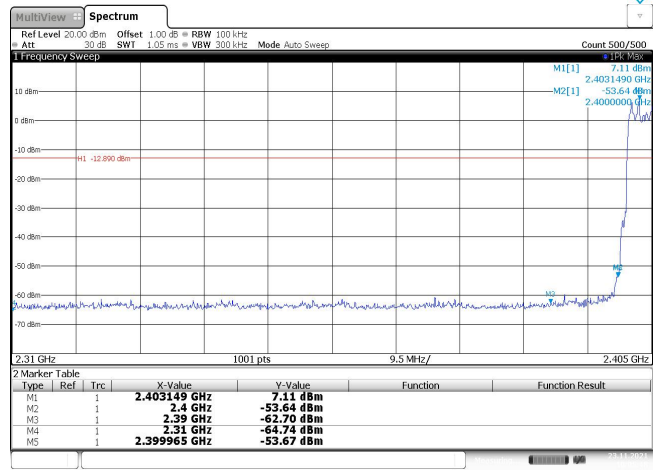
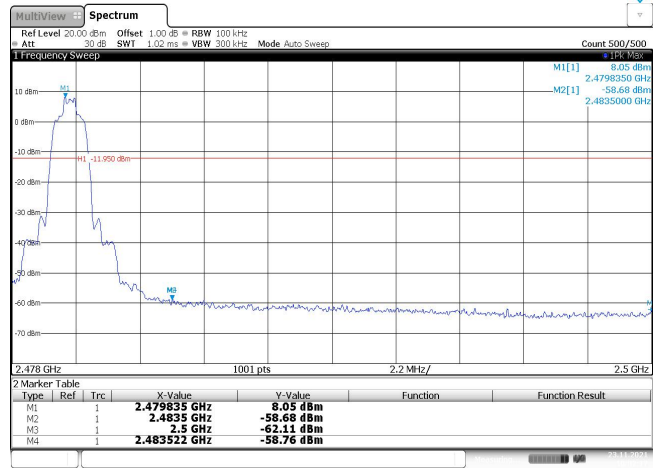
Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz <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>2.40201 GHz</td><td>-8.11 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-58.03 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.21 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.99 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399015 GHz</td><td>-55.71 dBm</td><td></td><td></td></tr></table> Date: 23 NOV 2021 09:41:57	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-8.11 dBm			M2	1		2.4 GHz	-58.03 dBm			M3	1		2.39 GHz	-62.21 dBm			M4	1		2.31 GHz	-63.99 dBm			M5	1		2.399015 GHz	-55.71 dBm				
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40201 GHz	-8.11 dBm																																									
M2	1		2.4 GHz	-58.03 dBm																																									
M3	1		2.39 GHz	-62.21 dBm																																									
M4	1		2.31 GHz	-63.99 dBm																																									
M5	1		2.399015 GHz	-55.71 dBm																																									
CH00 Hopping mode	 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz <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>2.40201 GHz</td><td>-7.53 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-61.12 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-64.59 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.59 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399015 GHz</td><td>-58.67 dBm</td><td></td><td></td></tr></table> Date: 23 NOV 2021 09:53:29	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-7.53 dBm			M2	1		2.4 GHz	-61.12 dBm			M3	1		2.39 GHz	-64.59 dBm			M4	1		2.31 GHz	-64.59 dBm			M5	1		2.399015 GHz	-58.67 dBm				
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40201 GHz	-7.53 dBm																																									
M2	1		2.4 GHz	-61.12 dBm																																									
M3	1		2.39 GHz	-64.59 dBm																																									
M4	1		2.31 GHz	-64.59 dBm																																									
M5	1		2.399015 GHz	-58.67 dBm																																									
CH78 No hopping mode	 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz <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>2.479835 GHz</td><td>-8.36 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.57 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.24 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484996 GHz</td><td>-57.49 dBm</td><td></td><td></td></tr></table> Date: 23 NOV 2021 09:48:48	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479835 GHz	-8.36 dBm			M2	1		2.4835 GHz	-59.57 dBm			M3	1		2.5 GHz	-64.24 dBm			M4	1		2.484996 GHz	-57.49 dBm											
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479835 GHz	-8.36 dBm																																									
M2	1		2.4835 GHz	-59.57 dBm																																									
M3	1		2.5 GHz	-64.24 dBm																																									
M4	1		2.484996 GHz	-57.49 dBm																																									

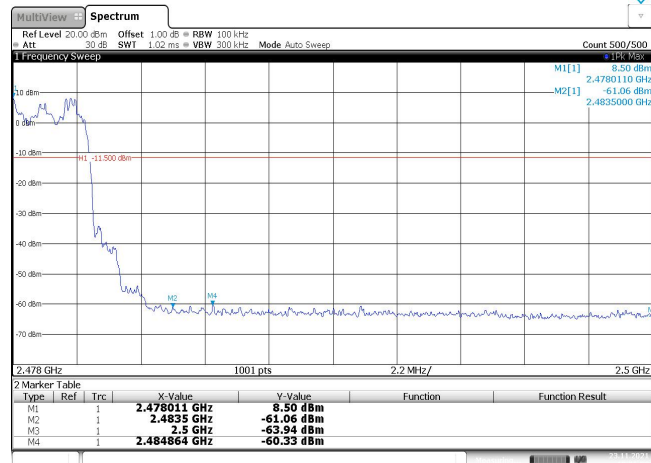
CH78
Hopping mode



Date: 23 NOV 2021 09:53:43

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																									
CH00 No hopping mode	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 2.401821 GHz -7.46 dBm M2[1] 2.401821 GHz -51.05 dBm M3[1] 2.400000 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>2.401821 GHz</td><td>-7.46 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.05 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.04 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.70 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399775 GHz</td><td>-51.51 dBm</td><td></td><td></td></tr></table> Date: 23 NOV 2021 09:56:34	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401821 GHz	-7.46 dBm			M2	1		2.4 GHz	-51.05 dBm			M3	1		2.39 GHz	-63.04 dBm			M4	1		2.31 GHz	-64.70 dBm			M5	1		2.399775 GHz	-51.51 dBm			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																						
M1	1		2.401821 GHz	-7.46 dBm																																								
M2	1		2.4 GHz	-51.05 dBm																																								
M3	1		2.39 GHz	-63.04 dBm																																								
M4	1		2.31 GHz	-64.70 dBm																																								
M5	1		2.399775 GHz	-51.51 dBm																																								
CH00 Hopping mode	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 2.403149 GHz -7.11 dBm M2[1] 2.403149 GHz -53.64 dBm M3[1] 2.400000 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>2.403149 GHz</td><td>-7.11 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.64 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.70 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.74 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-53.67 dBm</td><td></td><td></td></tr></table> Date: 23 NOV 2021 10:05:48	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.403149 GHz	-7.11 dBm			M2	1		2.4 GHz	-53.64 dBm			M3	1		2.39 GHz	-62.70 dBm			M4	1		2.31 GHz	-64.74 dBm			M5	1		2.399965 GHz	-53.67 dBm			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																						
M1	1		2.403149 GHz	-7.11 dBm																																								
M2	1		2.4 GHz	-53.64 dBm																																								
M3	1		2.39 GHz	-62.70 dBm																																								
M4	1		2.31 GHz	-64.74 dBm																																								
M5	1		2.399965 GHz	-53.67 dBm																																								
CH78 No hopping mode	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 2.479835 GHz -8.05 dBm M2[1] 2.479835 GHz -58.68 dBm M3[1] 2.483500 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>2.479835 GHz</td><td>-8.05 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.68 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-62.11 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483522 GHz</td><td>-58.76 dBm</td><td></td><td></td></tr></table> Date: 23 NOV 2021 10:02:17	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479835 GHz	-8.05 dBm			M2	1		2.4835 GHz	-58.68 dBm			M3	1		2.5 GHz	-62.11 dBm			M4	1		2.483522 GHz	-58.76 dBm										
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																						
M1	1		2.479835 GHz	-8.05 dBm																																								
M2	1		2.4835 GHz	-58.68 dBm																																								
M3	1		2.5 GHz	-62.11 dBm																																								
M4	1		2.483522 GHz	-58.76 dBm																																								

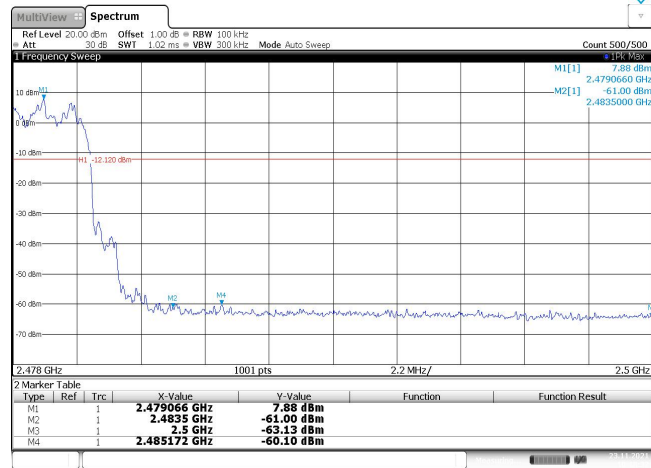
CH78
Hopping mode

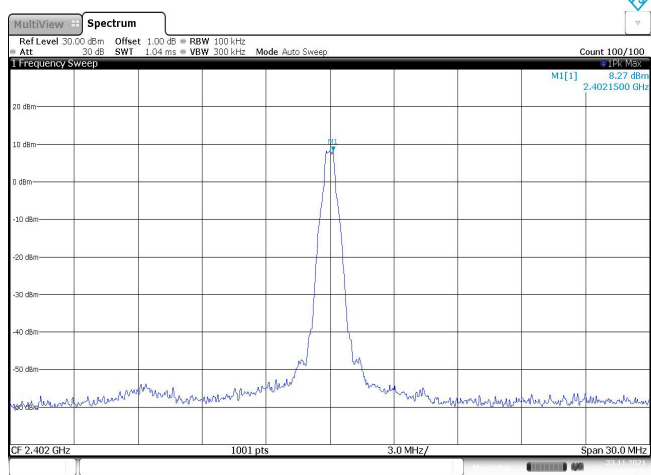
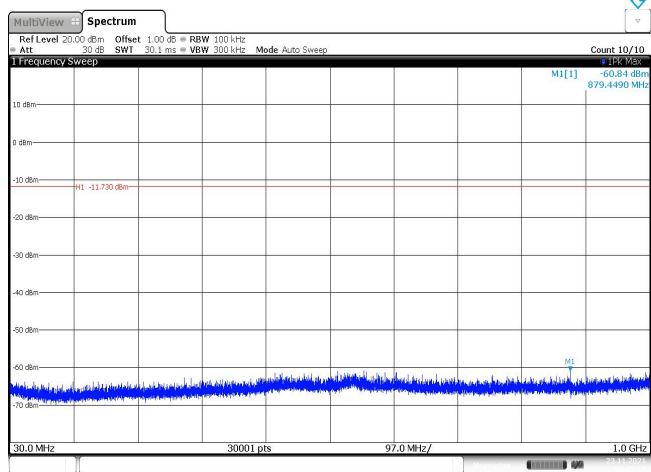
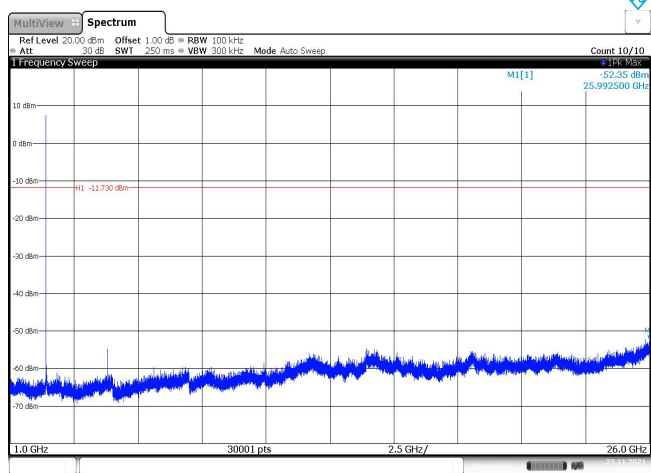


Date: 23 NOV 2021 10:06:28

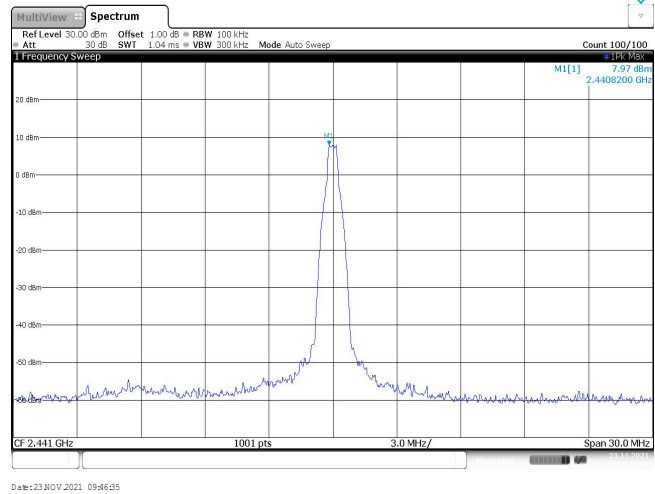
Test Item:	Band edge	Modulation type:	8DPSK
CH00 No hopping mode	<		

CH78
Hoppig mode

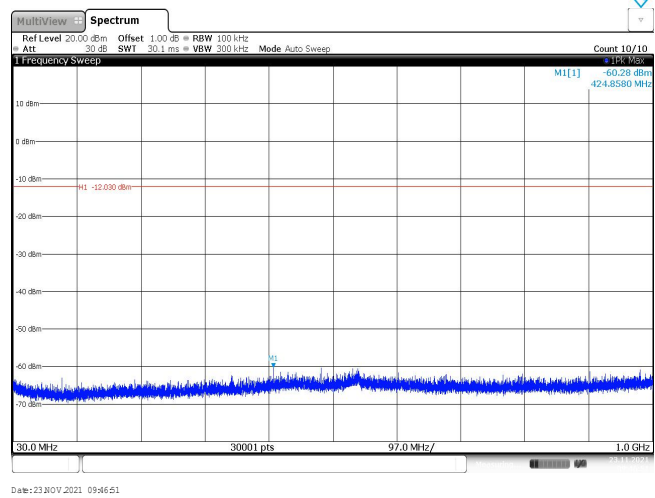


Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level	 CH00 Reference level		
CH00 30MHz~1000MHz	 CH00 30MHz~1000MHz		
CH00 1GHz~26GHz	 CH00 1GHz~26GHz		

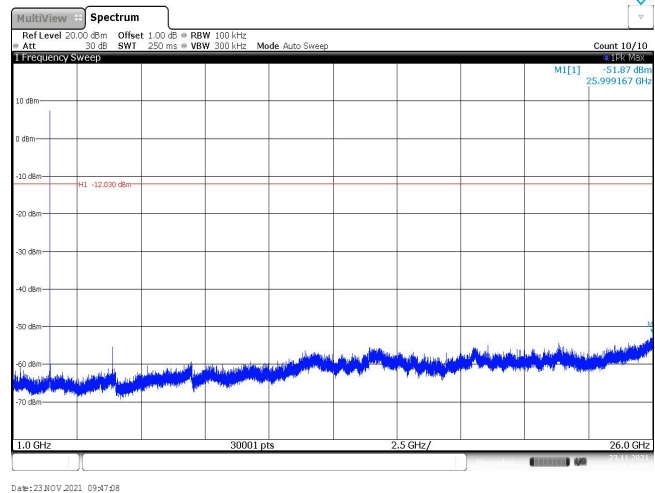
CH39
Reference level



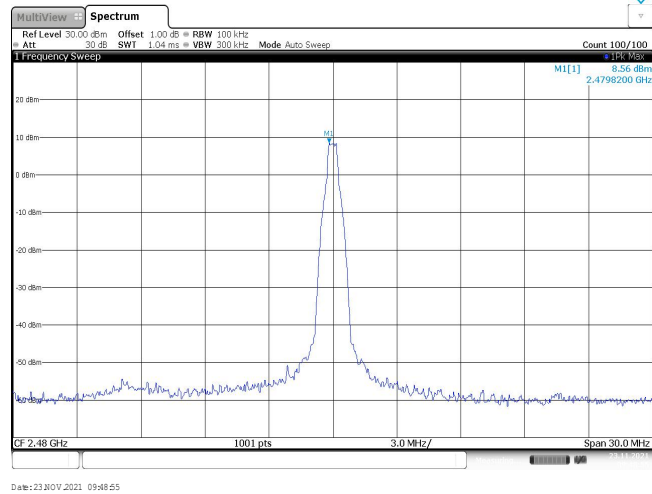
CH39
30MHz~1000MHz



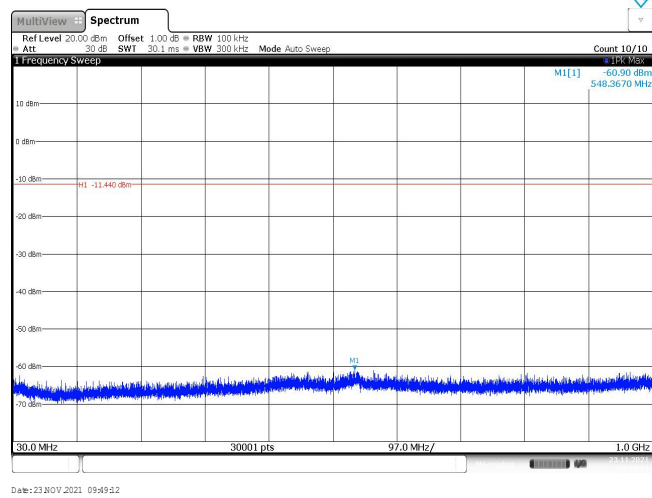
CH39
1GHz~26GHz



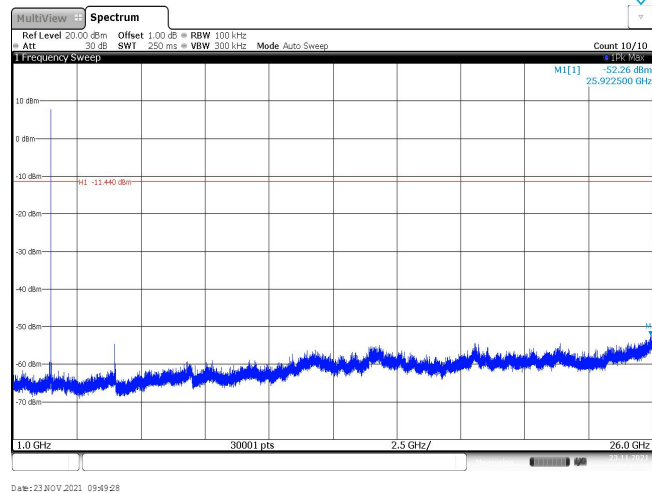
CH78
Reference level

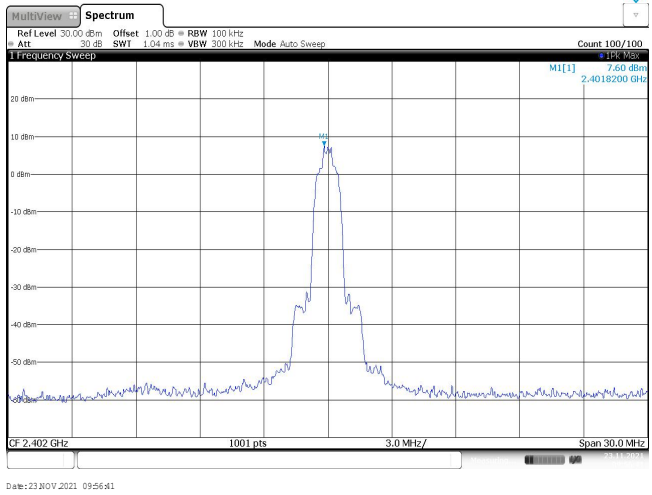
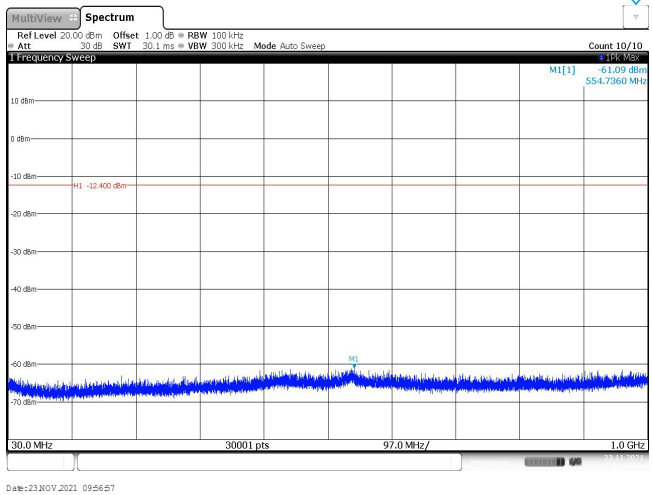


CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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