

# APPENDIX REPORT

Project No.	SHT2210059201EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22100592001	Model No.	ClearDryve 220a
Start test date	2022-12-02	Finish date	2022-12-02
Temperature	25.9°C	Humidity	35%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhuo

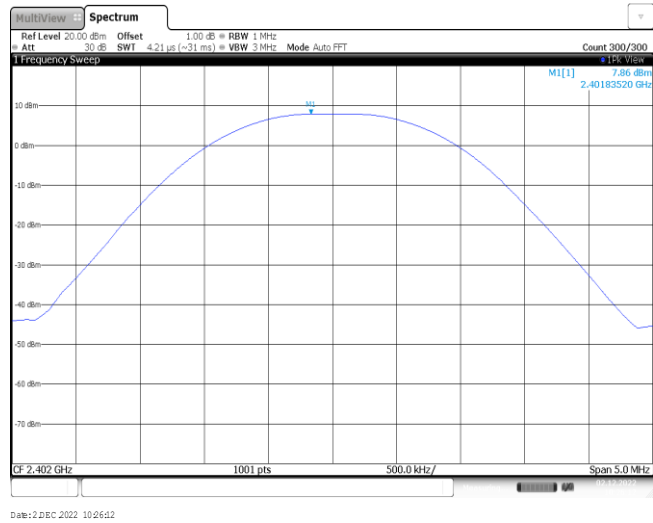
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(ducted)	PASS

**Appendix A: Peak Output Power**

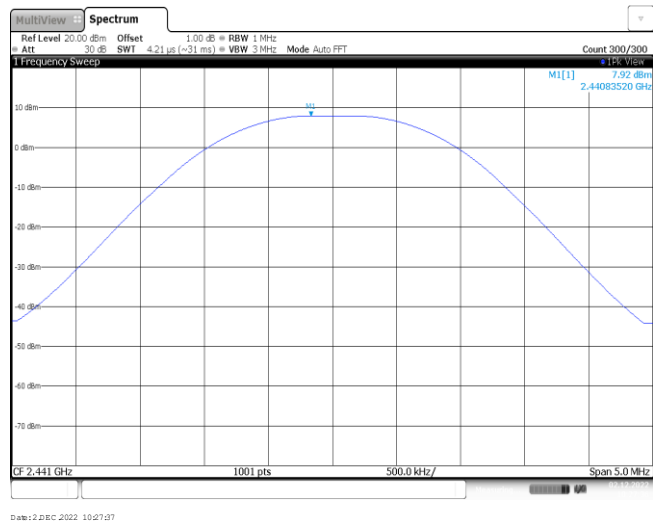
Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	7.86	7.76	≤ 30.00	Pass
	39	7.92	7.84		
	78	7.87	7.86		
π/4DQPSK	00	9.35	9.13	≤ 21.00	Pass
	39	9.06	8.78		
	78	8.80	8.60		
8DPSK	00	7.87	7.83	≤ 21.00	Pass
	39	9.02	8.74		
	78	8.24	8.04		

**Modulation Type: GFSK**

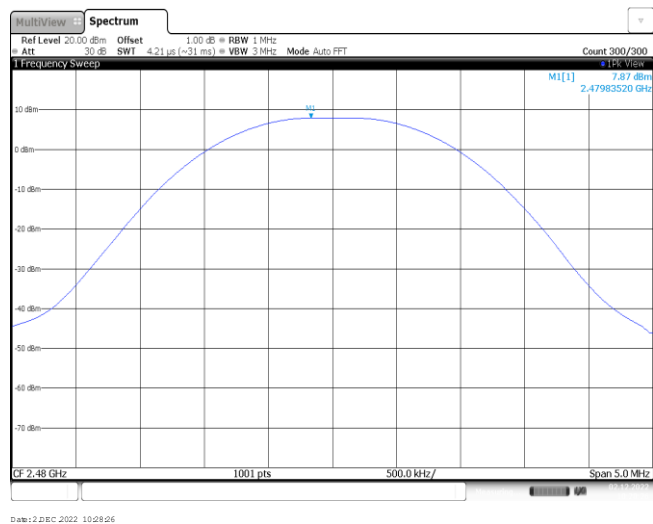
CH00



CH39

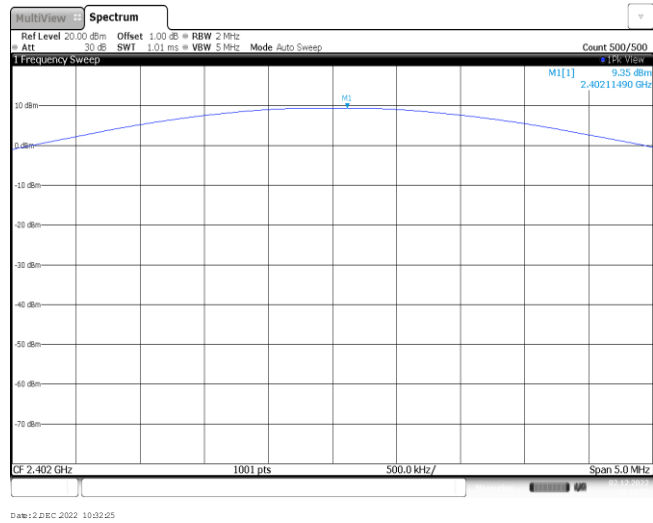


CH78

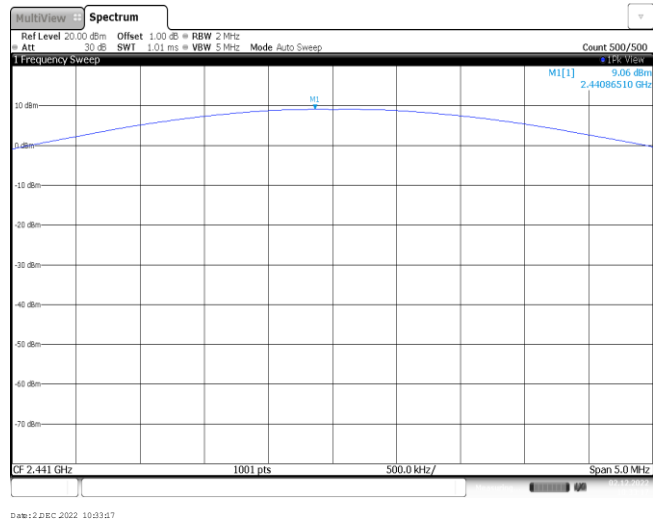


**Modulation Type:**  $\pi/4$ QPSK

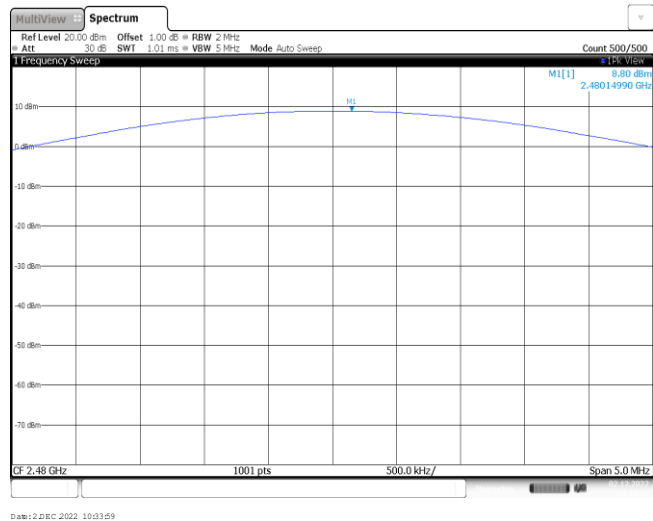
CH00



CH39

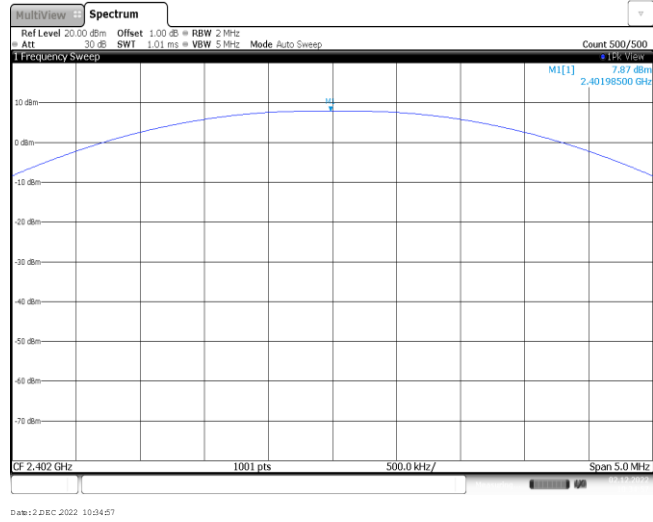


CH78

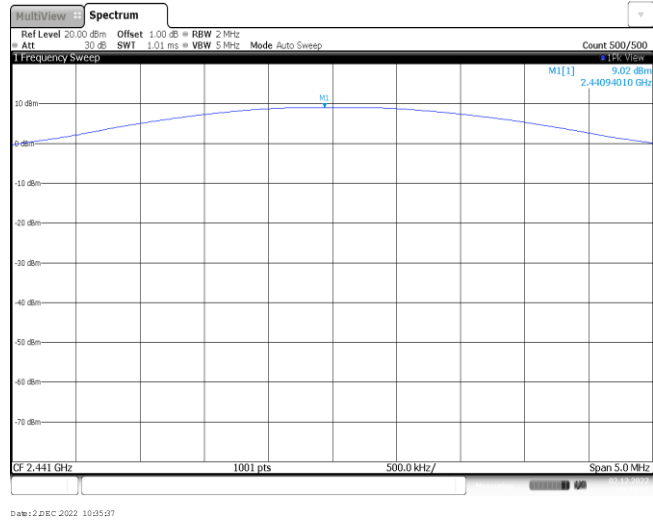


**Modulation Type: 8DPSK**

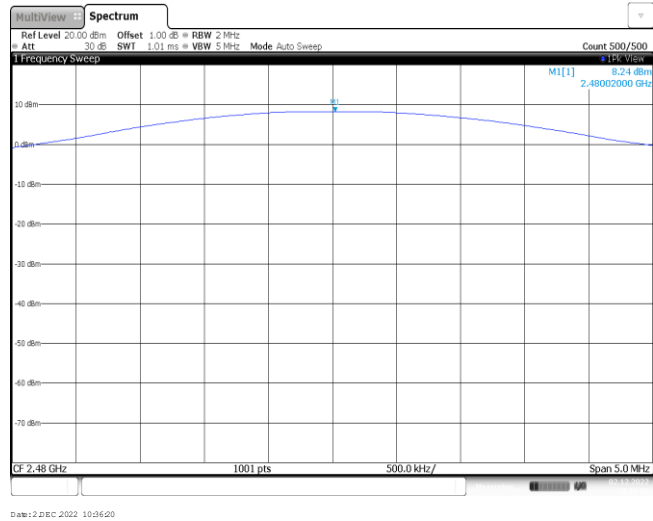
CH00



CH39



CH78

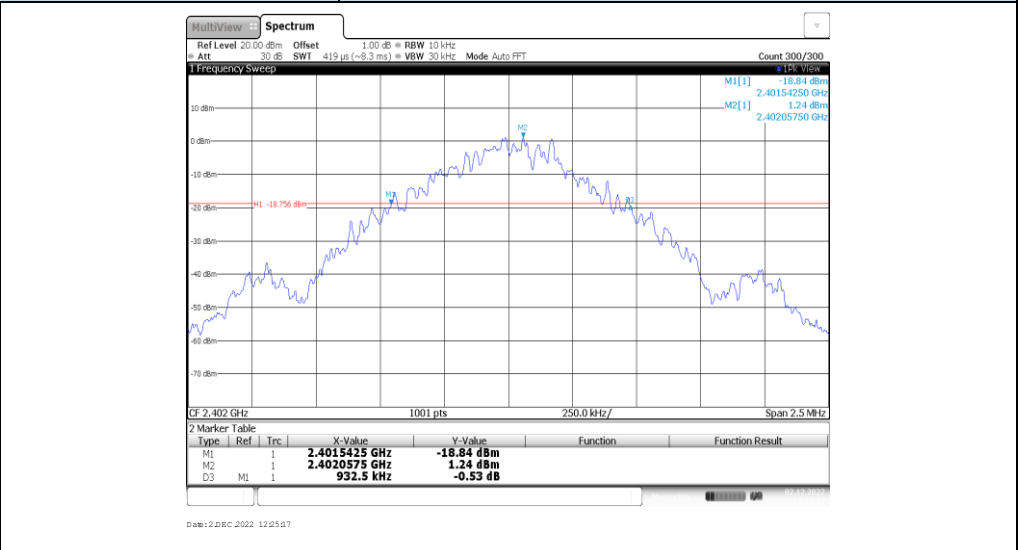


**Appendix B : 20 dB Bandwidth**

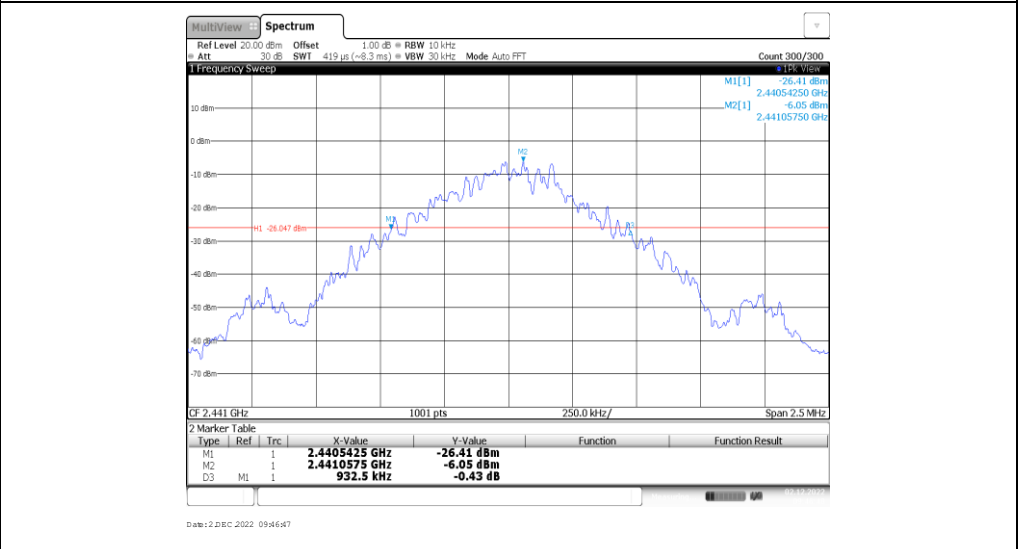
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	932.50	-	Pass
	39	932.50		
	78	932.50		
$\pi/4$ DQPSK	00	1342.50	-	Pass
	39	1340.00		
	78	1342.50		
8DPSK	00	1342.50	-	Pass
	39	1345.00		
	78	1347.50		

**Modulation Type: GFSK**

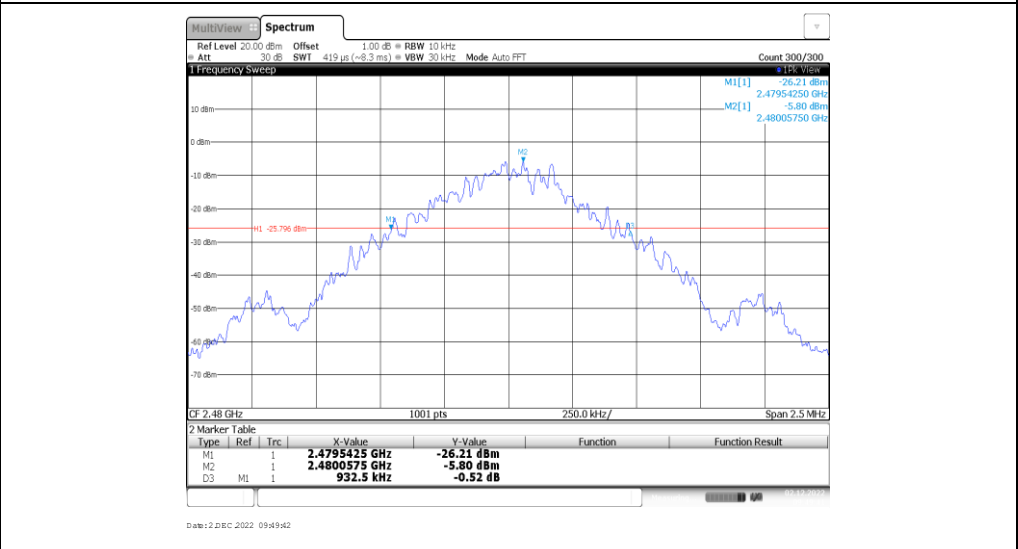
CH00



CH39

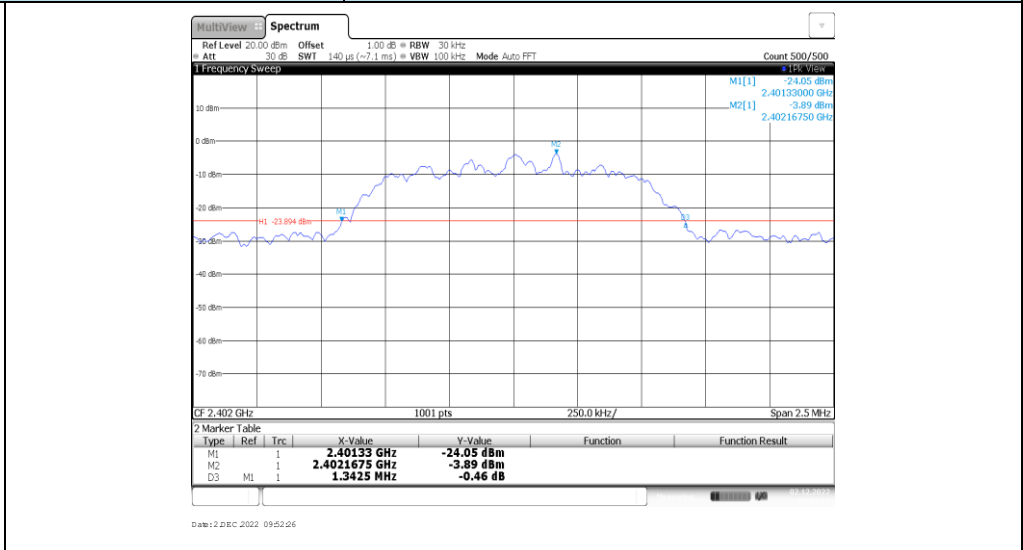


CH78

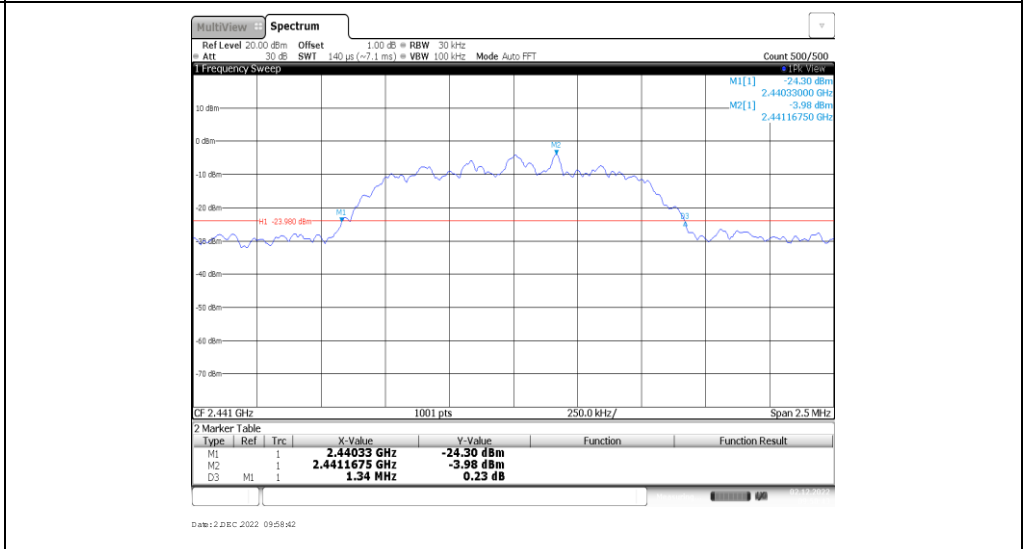


**Modulation Type:**  **$\pi/4$ DQPSK**

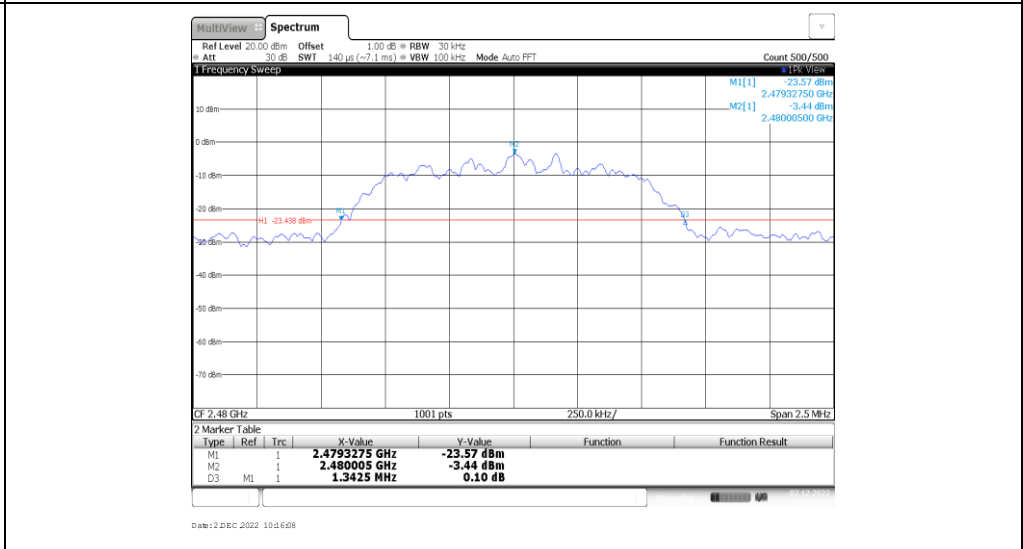
CH00



CH39



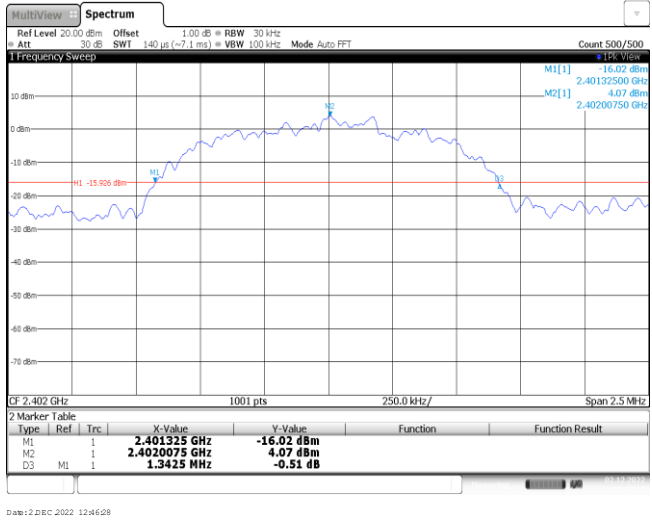
CH78



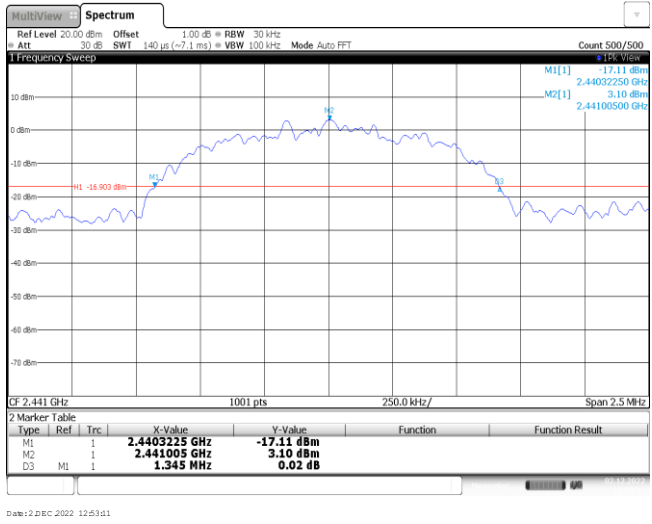


**Modulation Type: 8DPSK**

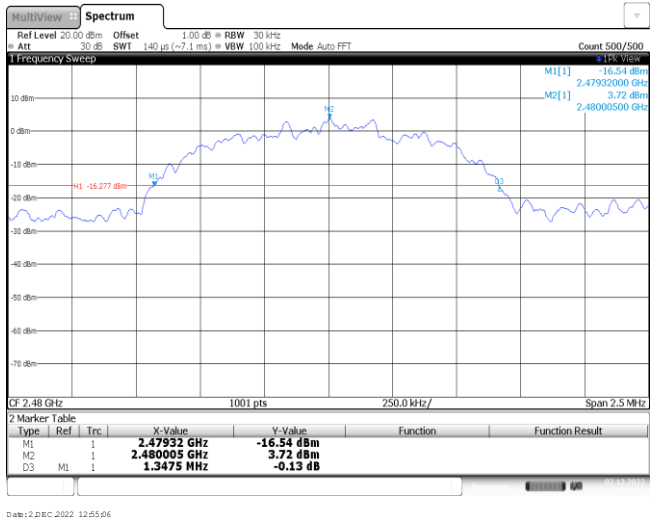
CH00



CH39



CH78

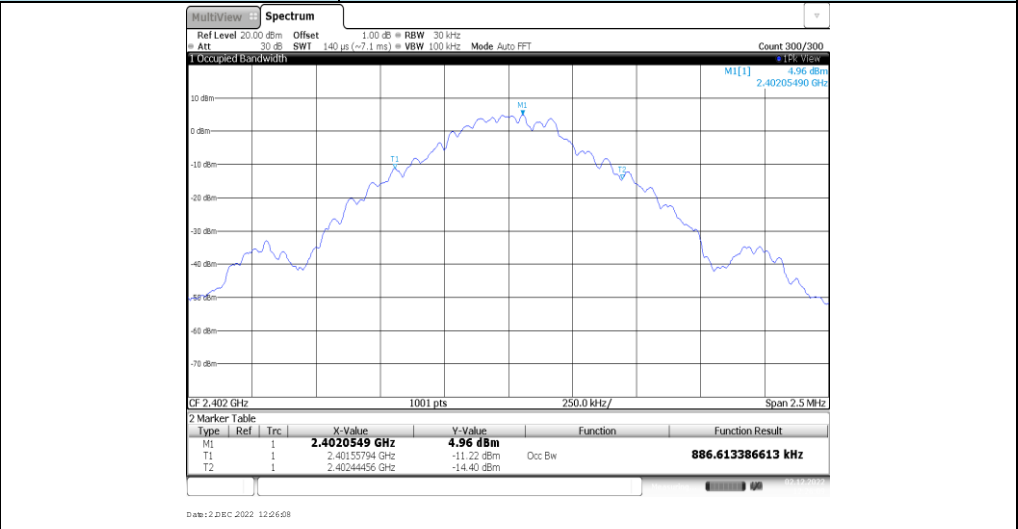


**Appendix C: 99% Occupied Bandwidth**

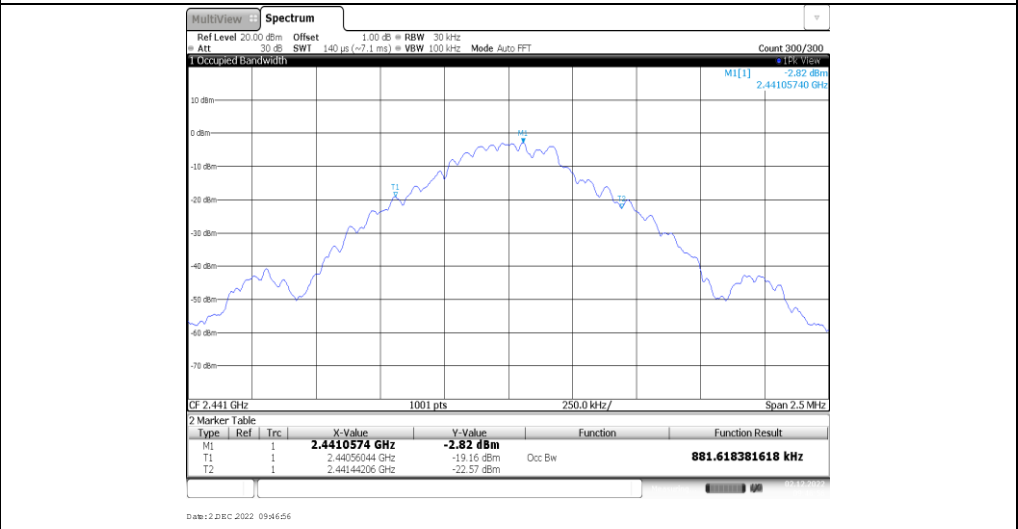
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.89	-	Pass
	39	0.88		
	78	0.88		
$\pi/4$ DQPSK	00	1.35	-	Pass
	39	1.35		
	78	1.35		
8DPSK	00	1.25	-	Pass
	39	1.25		
	78	1.26		

**Modulation Type: GFSK**

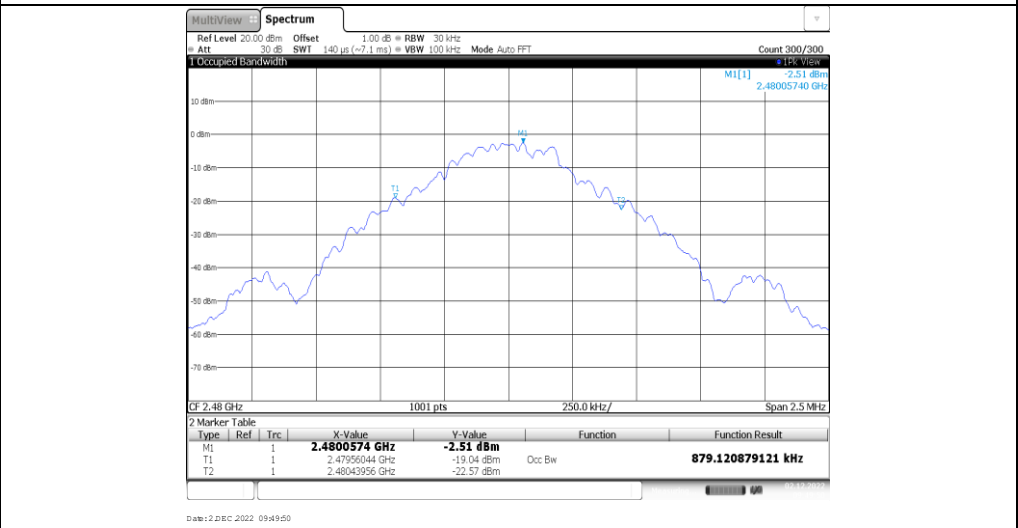
CH00



CH39



CH78



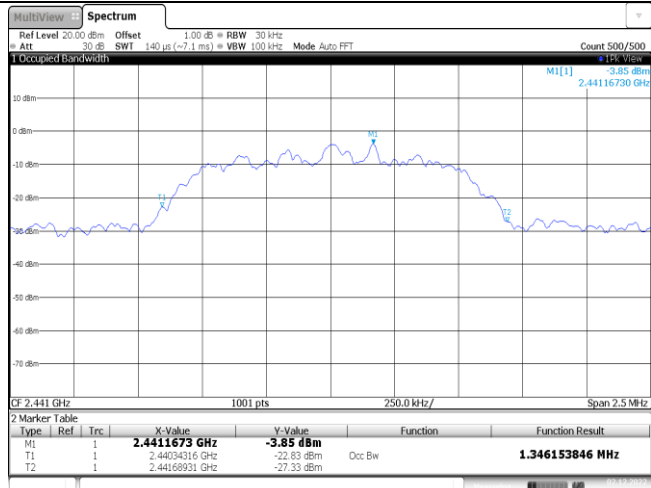
**Modulation Type:**  $\pi/4$ DQPSK

CH00



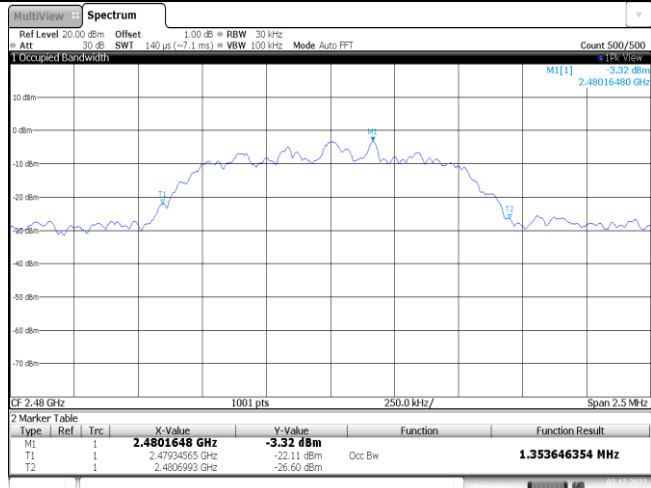
Date: 2.DEC 2022 09:52:04

CH39



Date: 2.DEC 2022 09:58:51

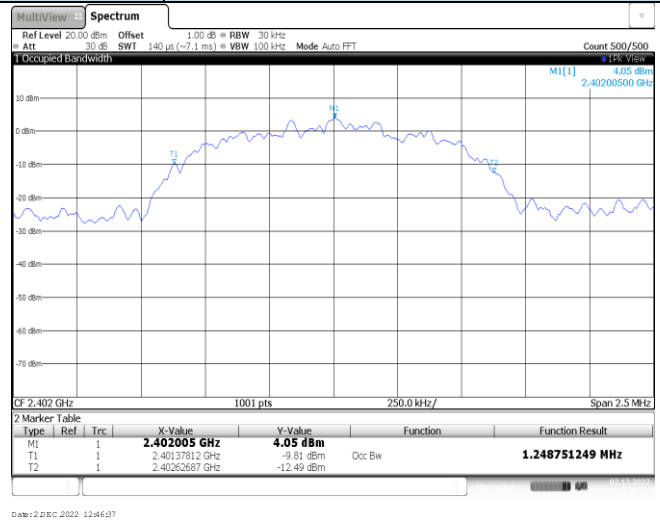
CH78



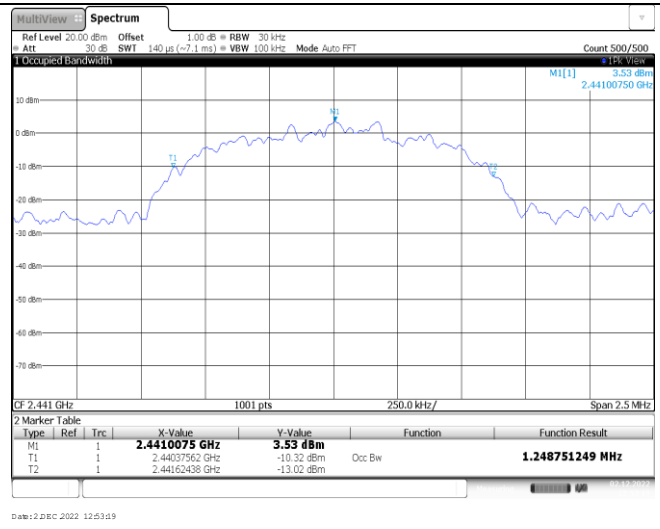
Date: 2.DEC 2022 10:16:16

**Modulation Type: 8DPSK**

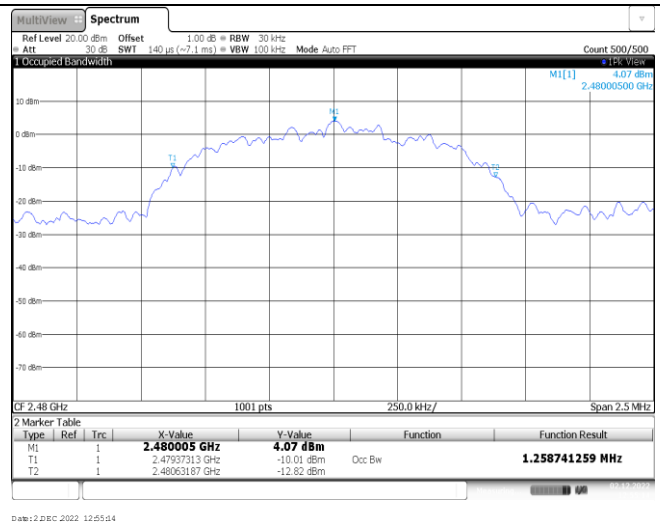
CH00



CH39



CH78



**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥932.50	Pass
$\pi/4$ DQPSK	39	1.00	≥895.00	Pass
8DPSK	39	1.00	≥898.33	Pass

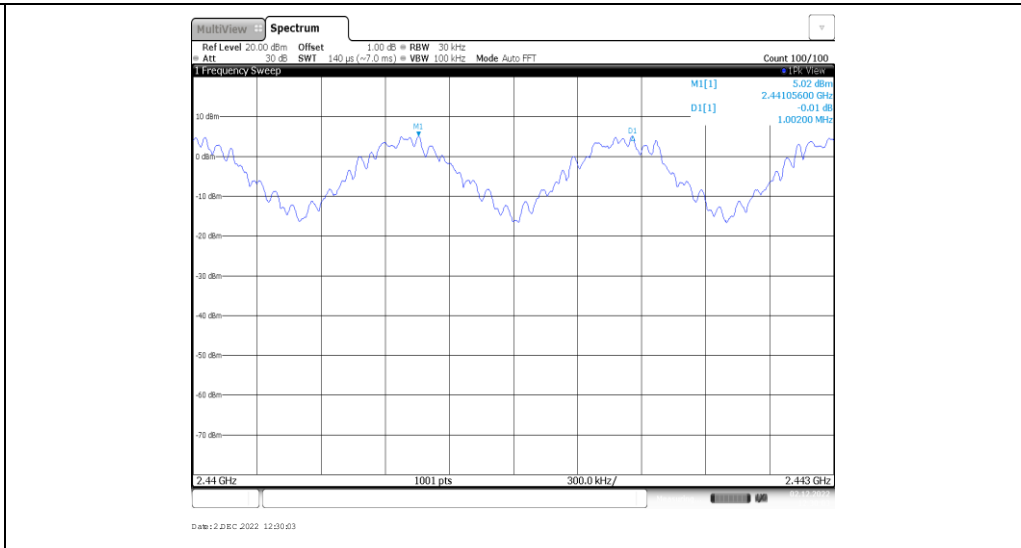
**Note:**

\*: GFSK limit = The maximum 20 dB Bandwidth for GFSK modulation on the appendix B.

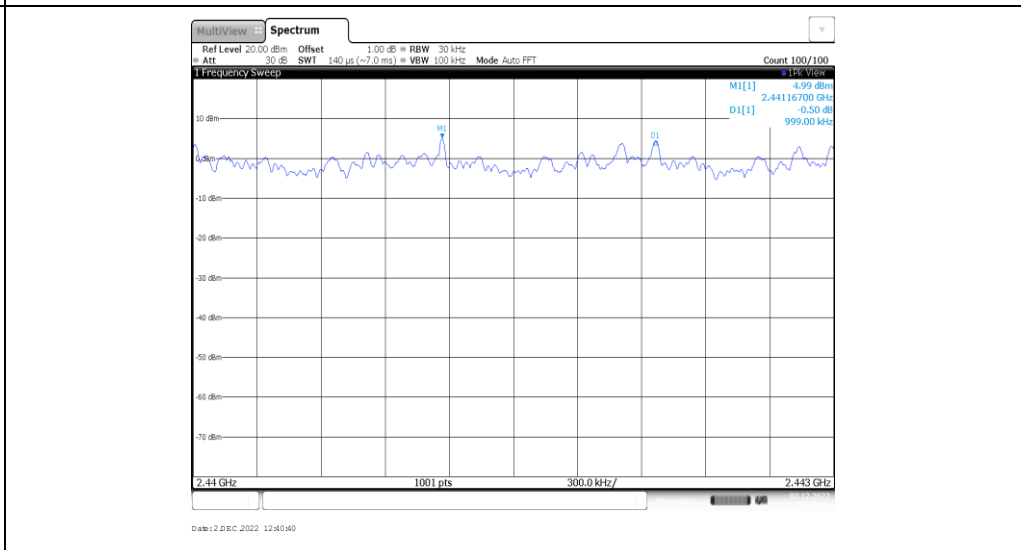
$\pi/4$ DQPSK limit =  $2/3$  \* The maximum 20 dB Bandwidth for  $\pi/4$ DQPSK modulation on the appendix B.

8DPSK limit =  $2/3$  \* The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

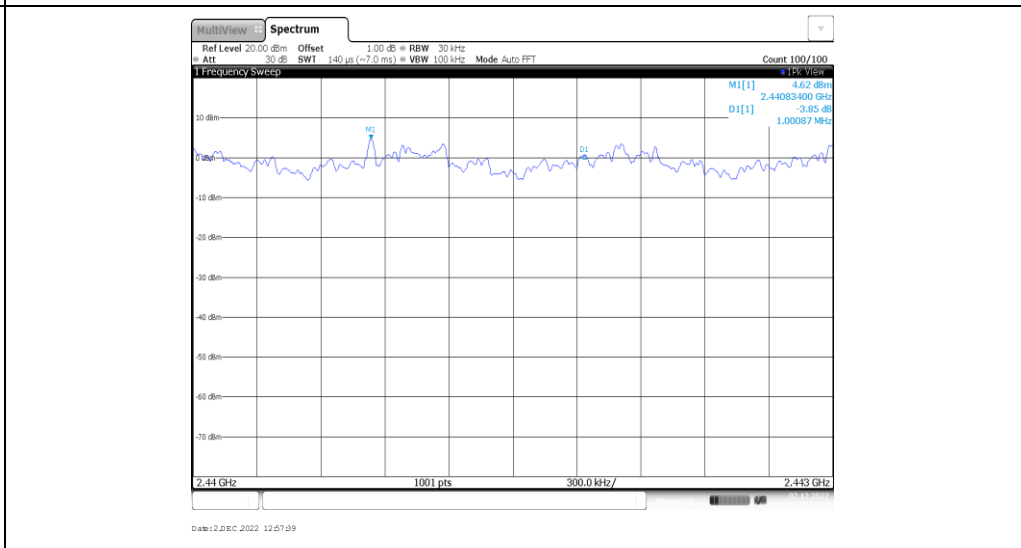
GFSK



$\pi/4$ DQPSK



8DPSK

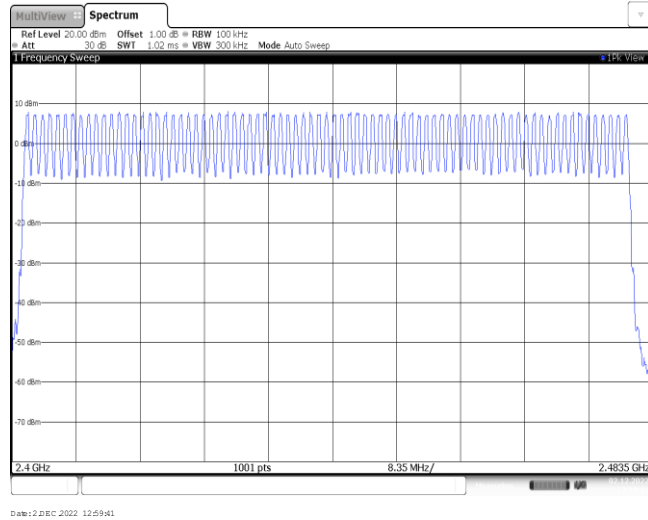


**Appendix E: Hopping Channel Number**

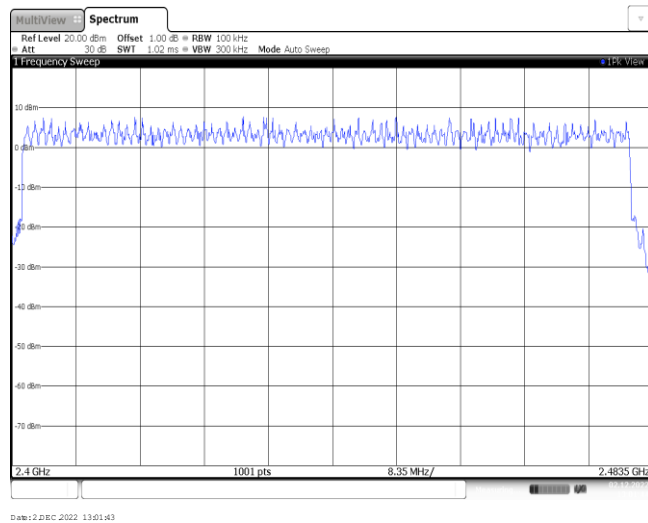
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



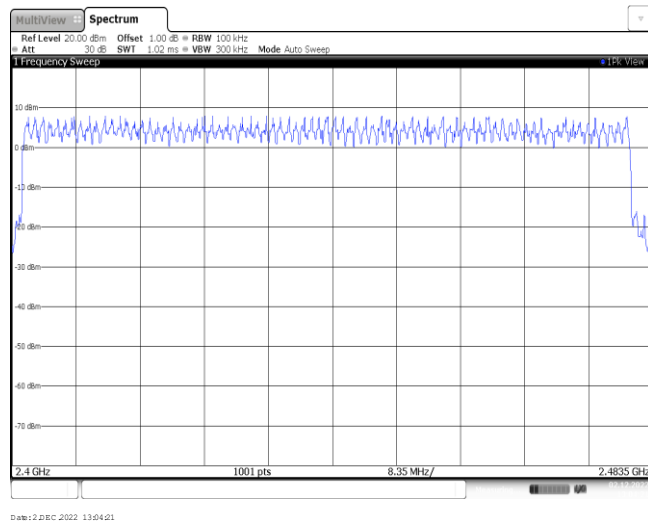
GFSK



$\pi/4$ DQPSK



8DPSK

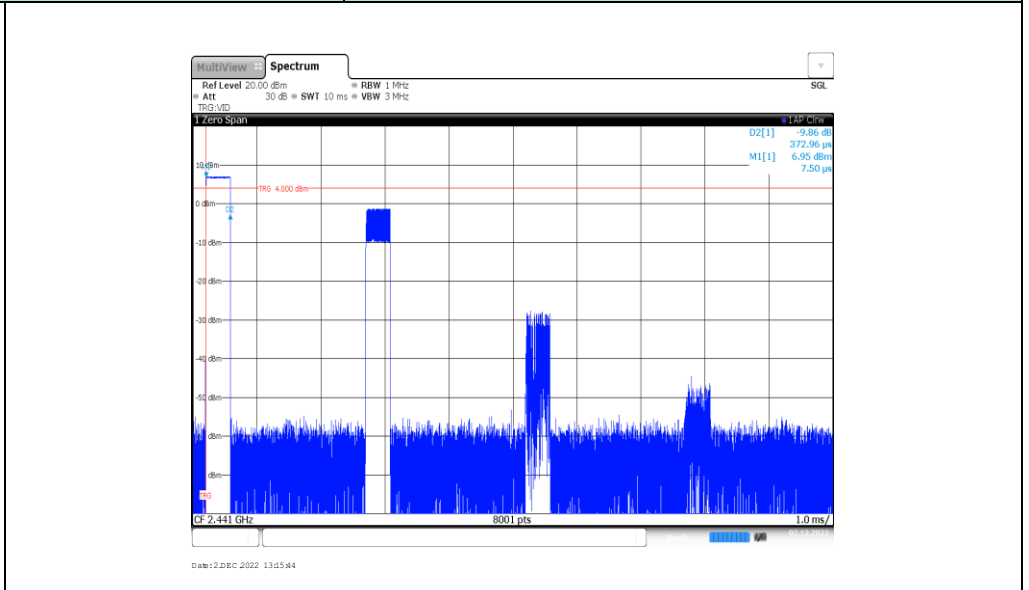


**Appendix F: Dwell Time**

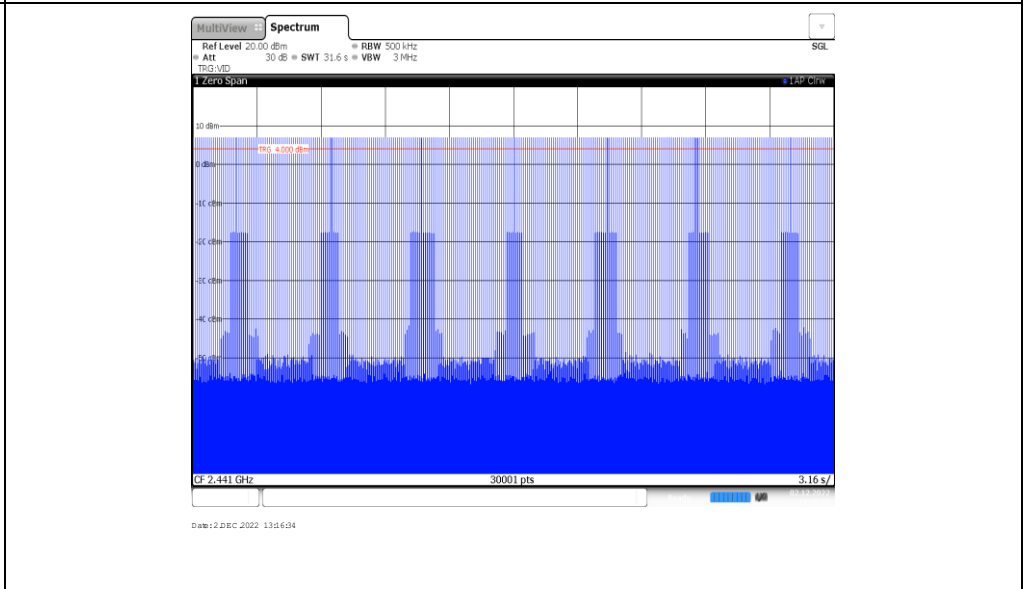
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.37	320	0.12	≤ 0.40	Pass
	DH3	1.64	160	0.26		
	DH5	2.89	107	0.31		
π/4DQPSK	2DH1	0.39	303	0.12	≤ 0.40	Pass
	2DH3	1.65	160	0.26		
	2DH5	2.89	107	0.31		
8DPSK	3DH1	0.39	320	0.12	≤ 0.40	Pass
	3DH3	1.64	160	0.26		
	3DH5	2.89	107	0.31		

**Modulation Type: GFSK**

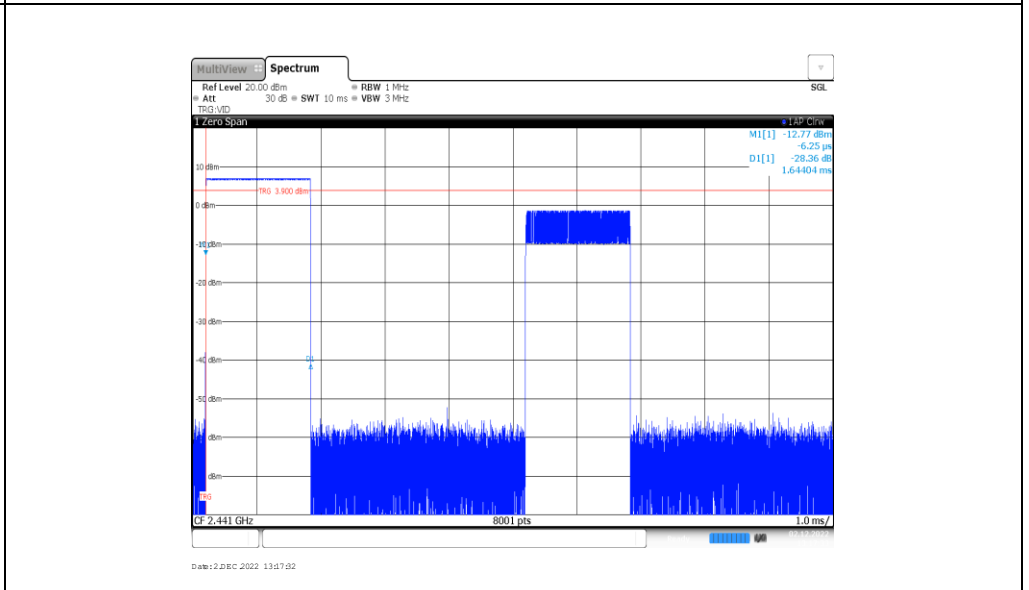
DH1  
Burst width



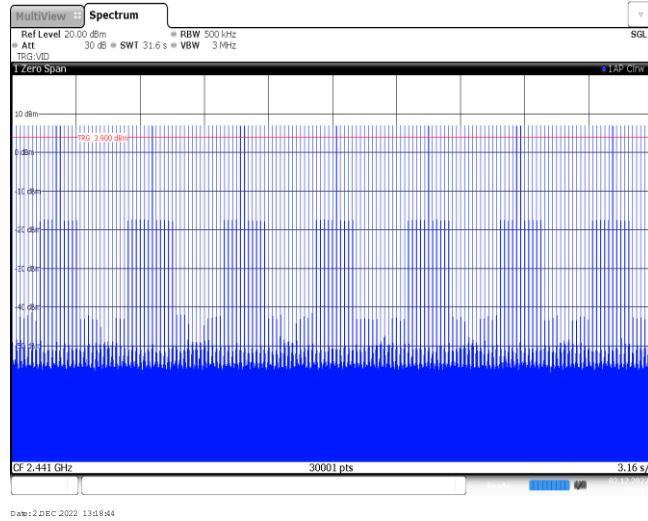
DH1  
Burst number



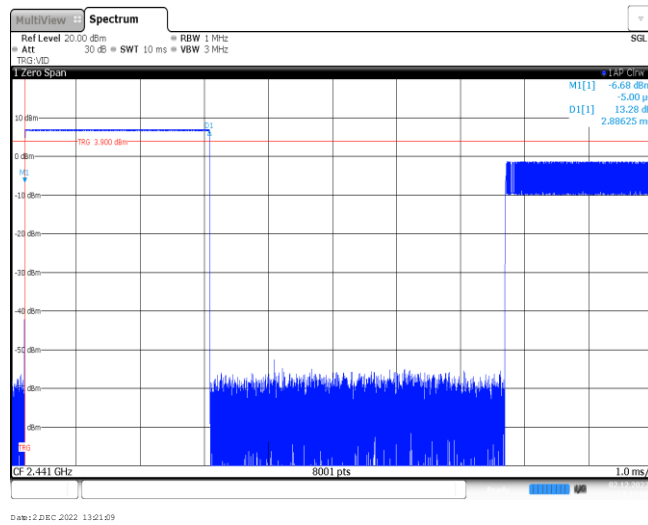
DH3  
Burst width



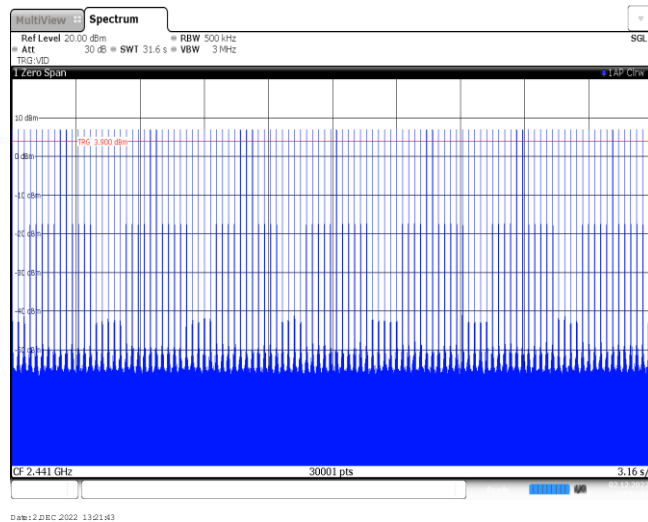
DH3  
Burst number



DH5  
Burst width

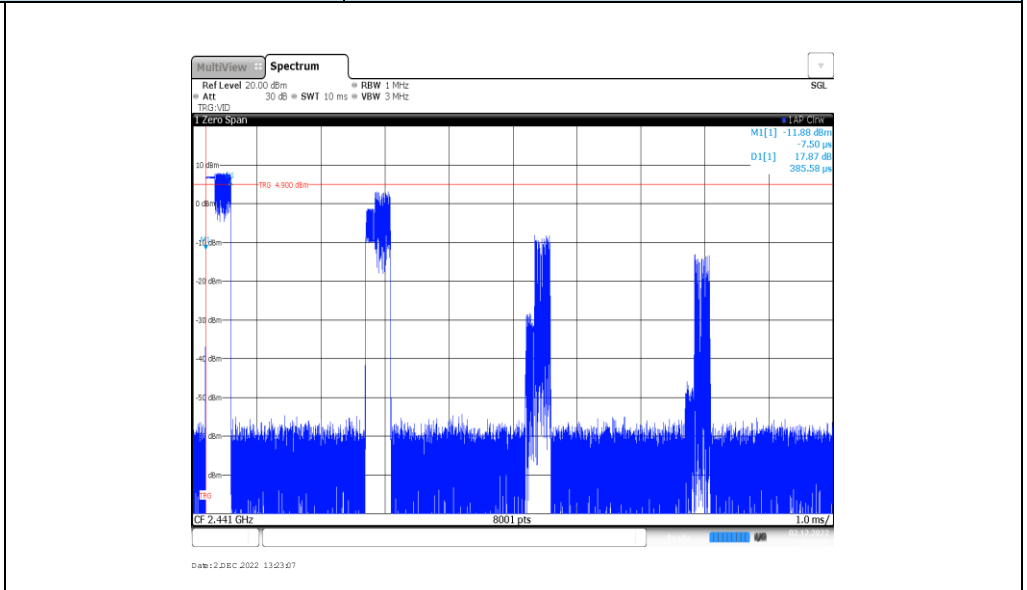


DH5  
Burst number

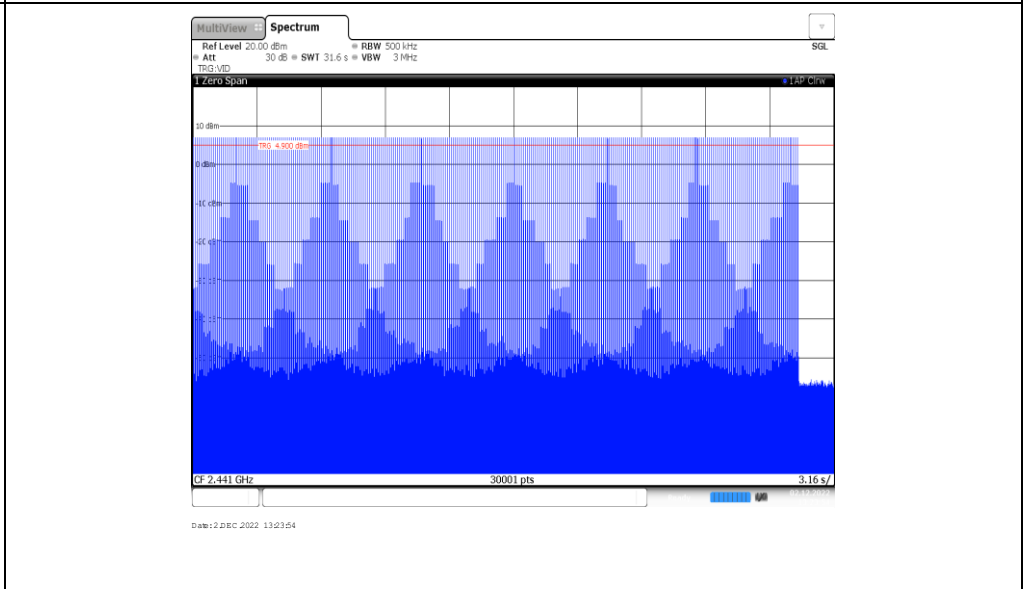


**Modulation Type:**  $\pi/4$ DQPSK

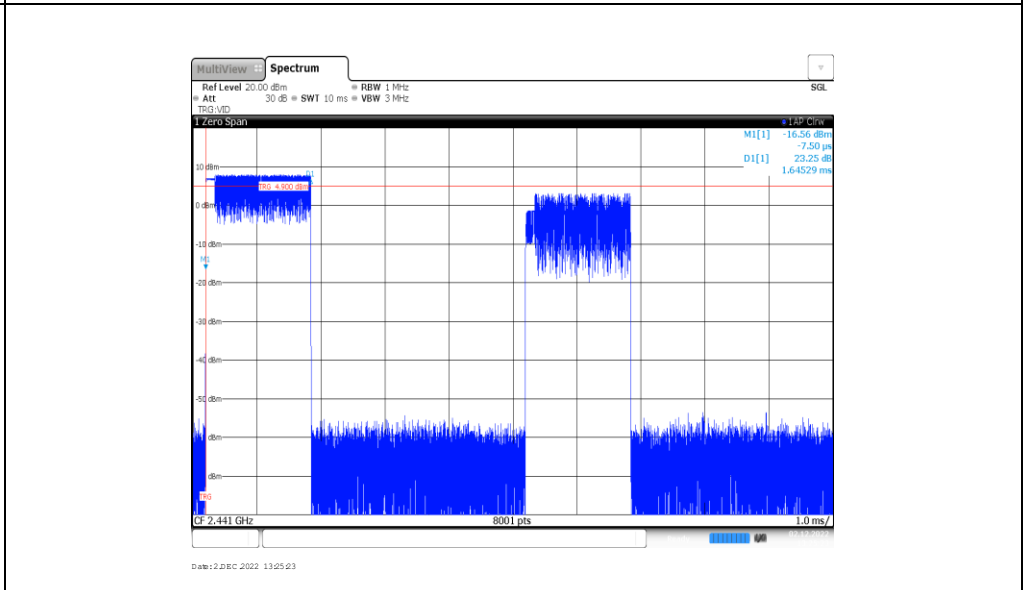
2DH1  
Burst width



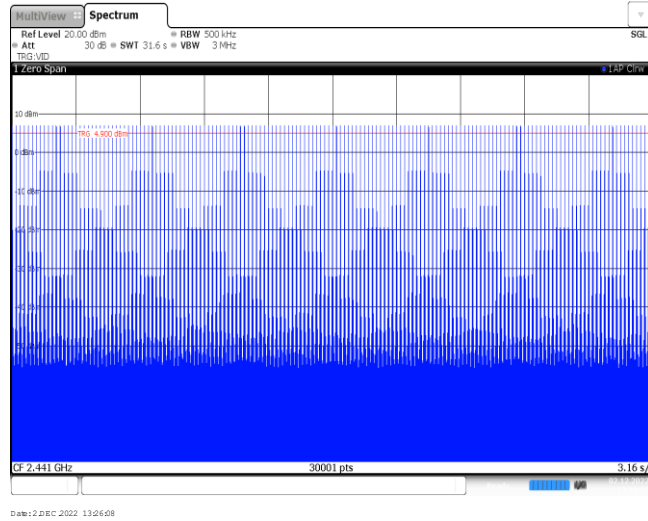
2DH1  
Burst number



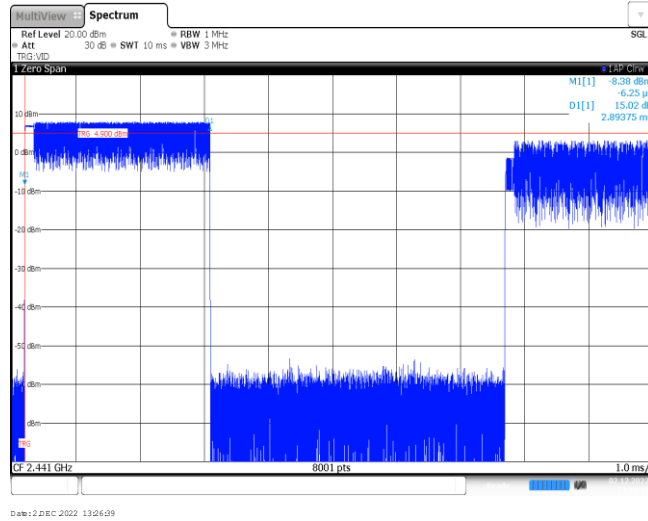
2DH3  
Burst width



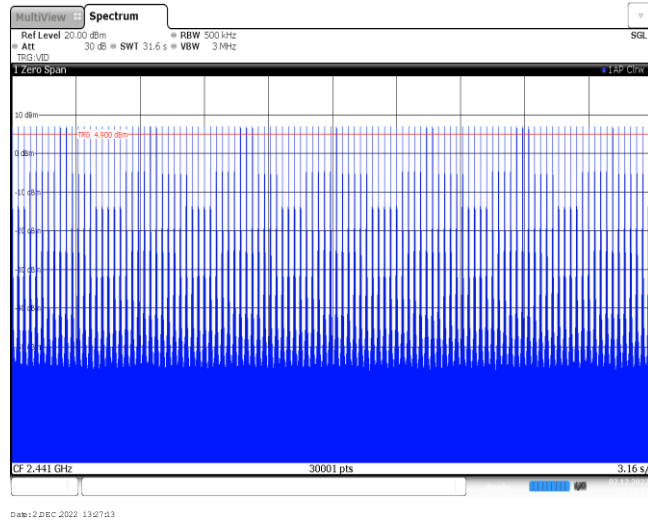
2DH3  
Burst number



2DH5  
Burst width

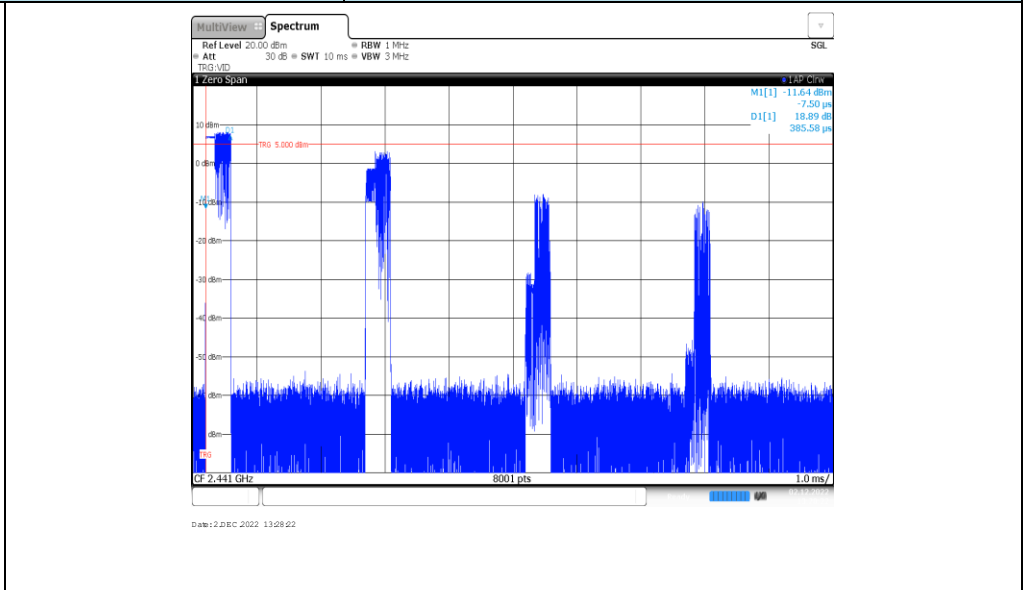


2DH5  
Burst number

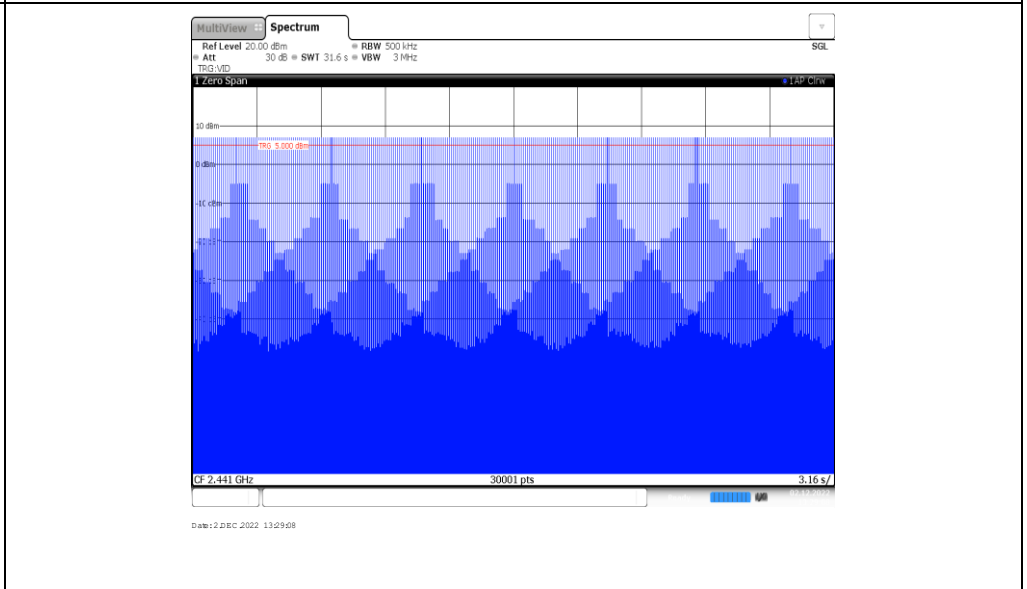


**Modulation Type: 8DPSK**

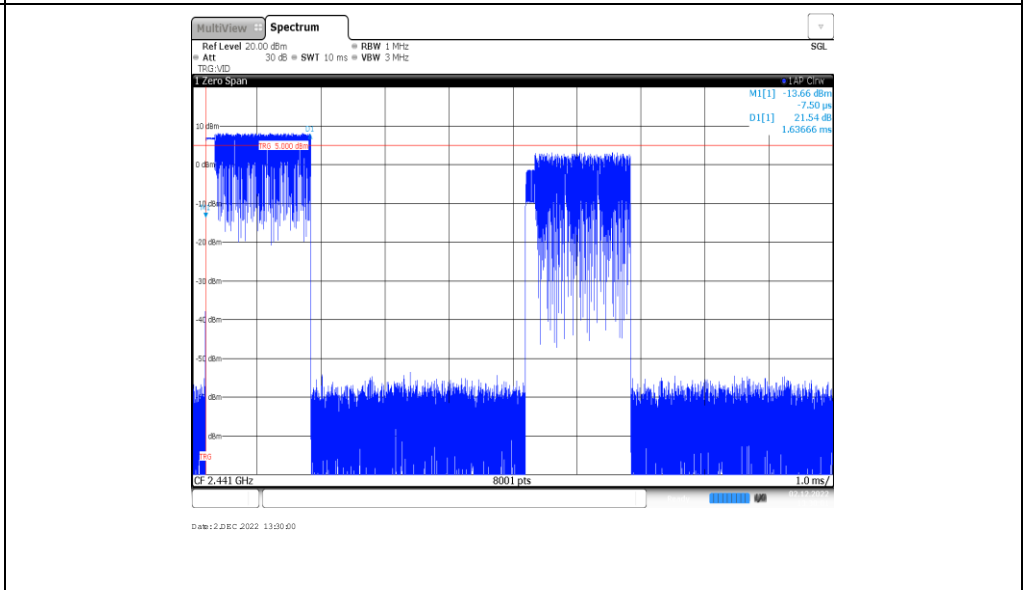
3DH1  
Burst width



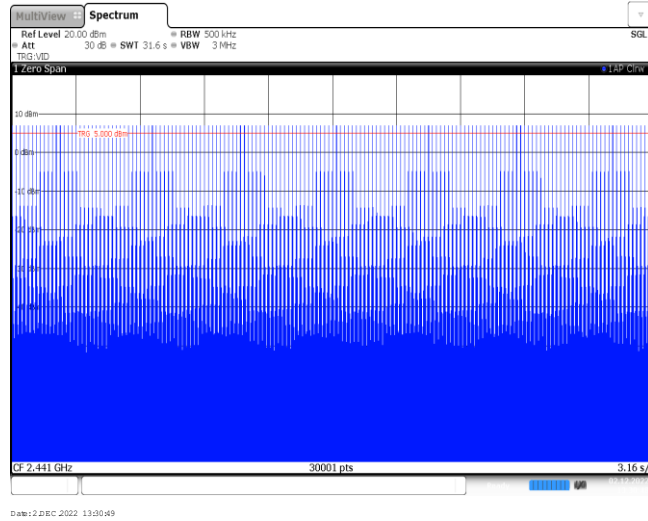
3DH1  
Burst number



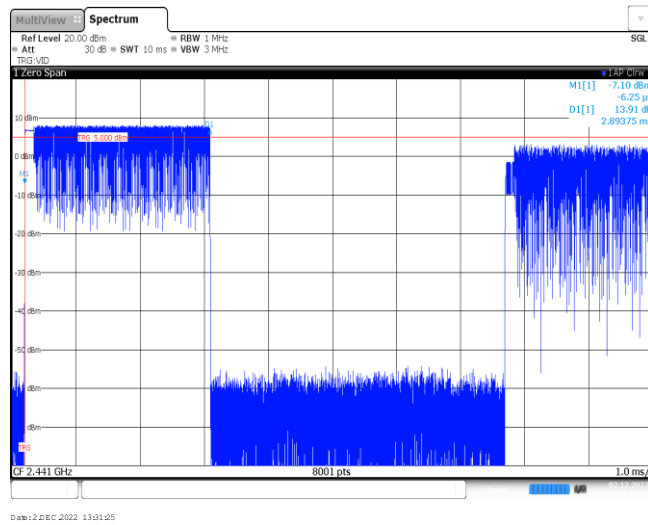
3DH3  
Burst width



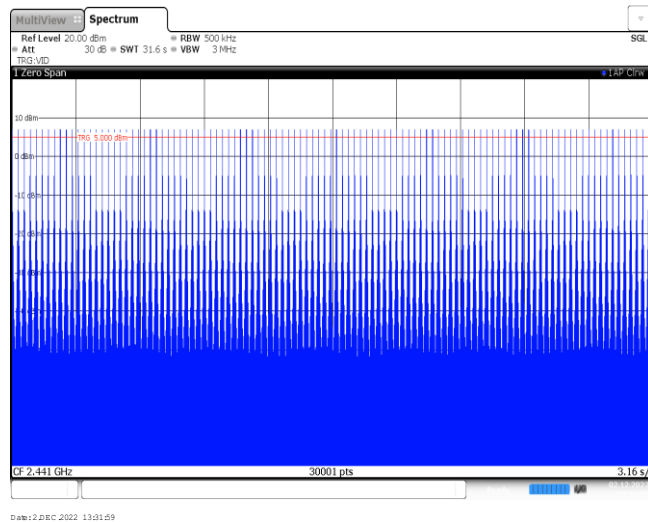
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

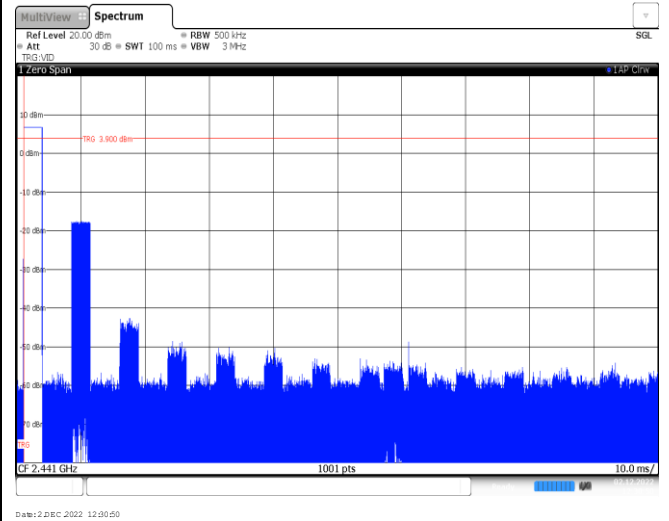
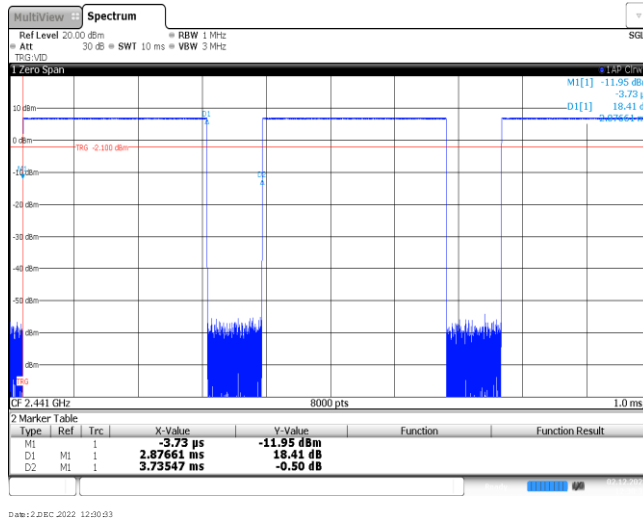




**Appendix G: Duty Cycle Correction Factor (DCCF)**

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log( $T_{on\ time} / T_{period}$ )					
Modulation type	Test Frequency (MHz)	$T_{on\ time}$ for single burst [ms]	$T_{period}$ [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.88	100	1	-30.81
$\pi/4$ DQPSK	2441	2.88	100	1	-30.81
8DPSK	2441	2.88	100	1	-30.81

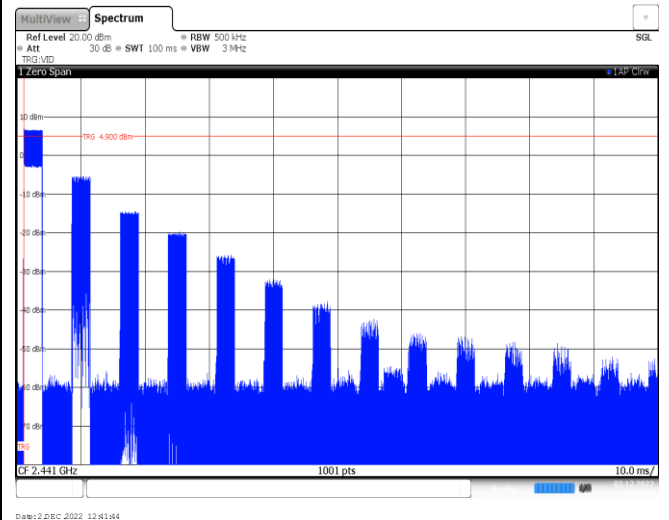
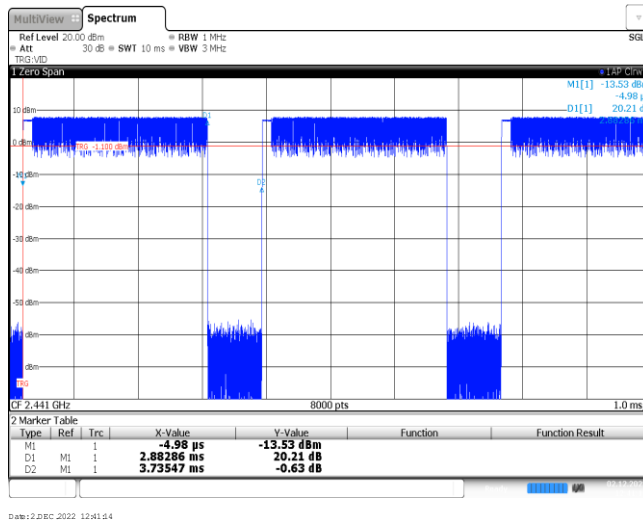
GFSK



Ton time for single burst

Burst Quantity

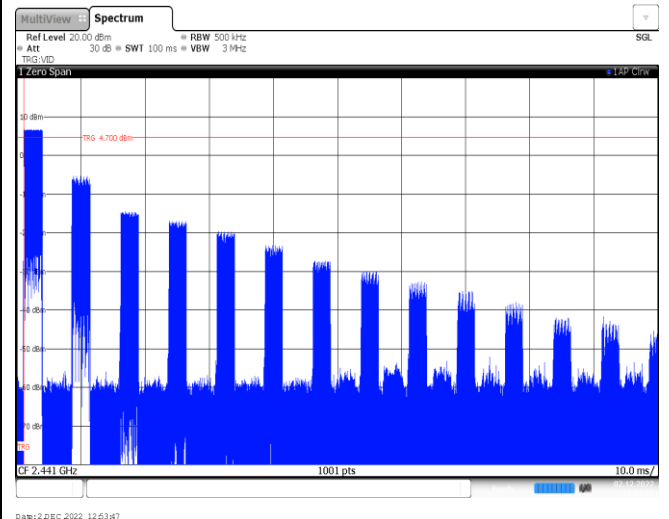
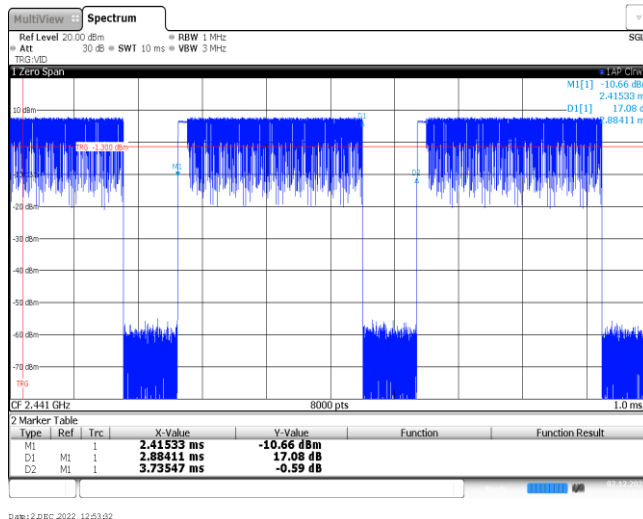
$\pi/4$  DQPSK



Ton time for single burst

Burst Quantity

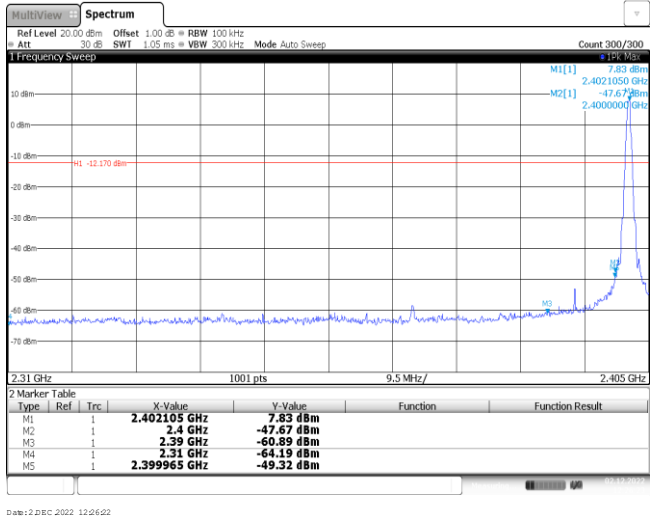
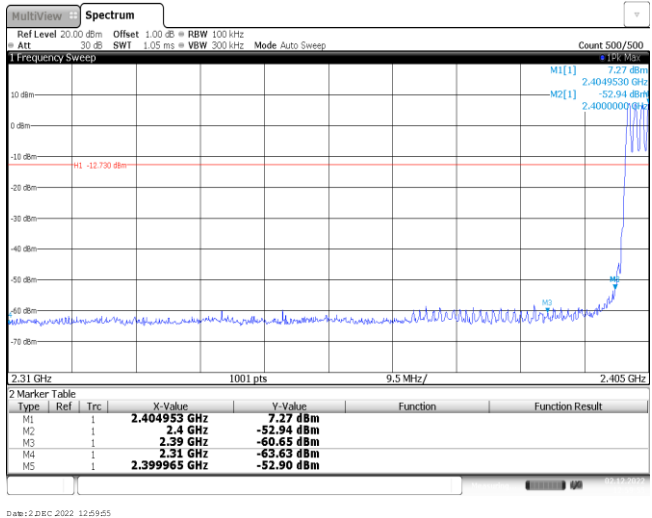
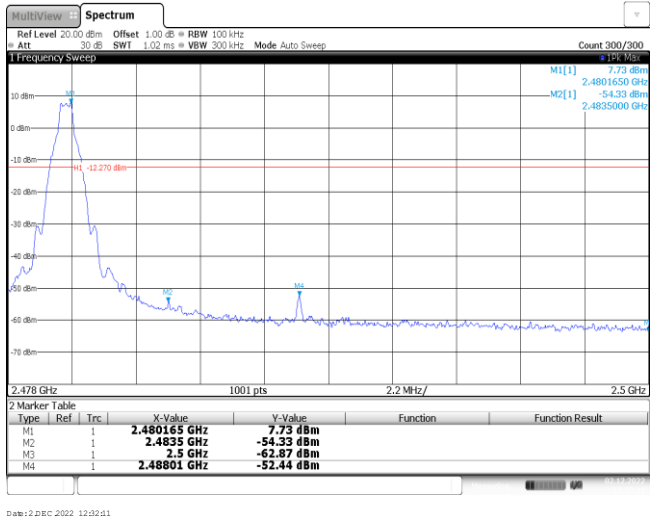
8DPSK



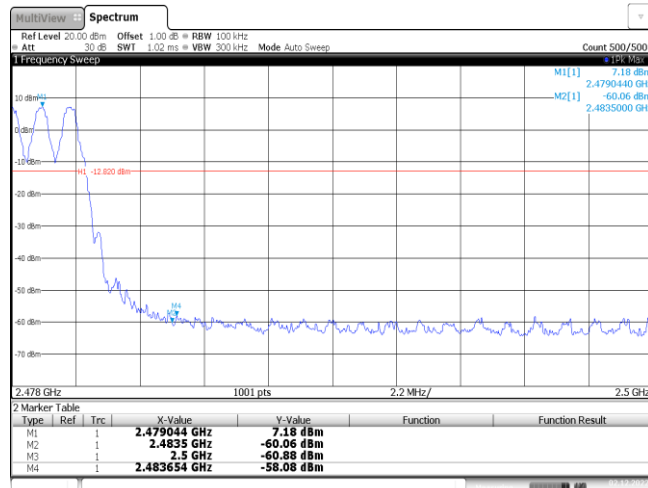
Ton time for single burst

Burst Quantity

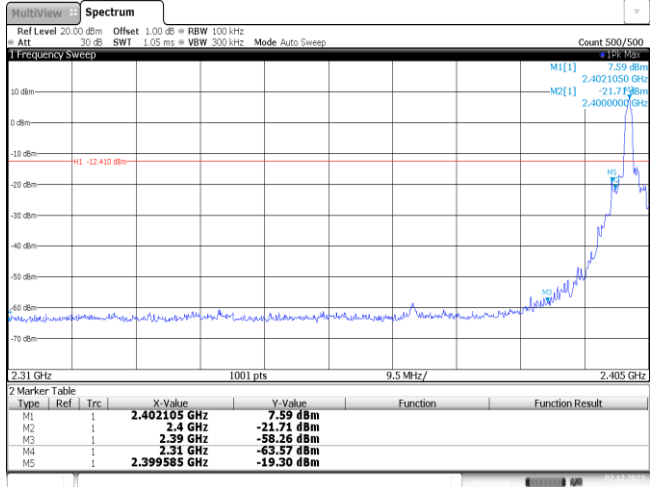
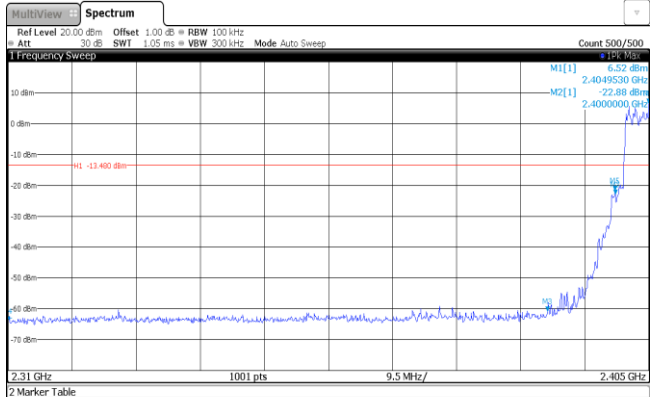
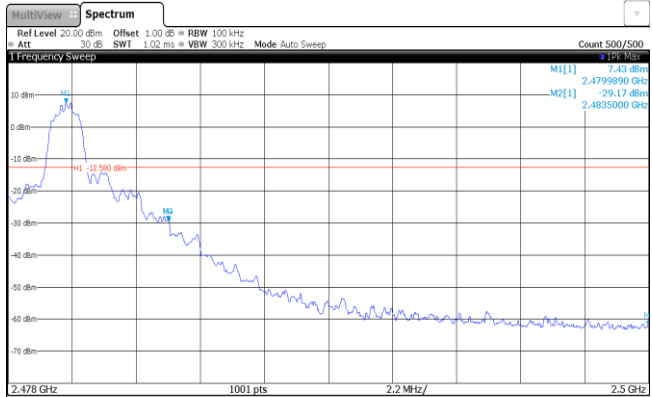
**Appendix H: Band edge and Spurious Emissions (conducted)**

Test Item:	Band edge	Modulation type:	GFSK
<p>CH00 No hopping mode</p>			
<p>CH00 Hopping mode</p>			
<p>CH78 No hopping mode</p>			

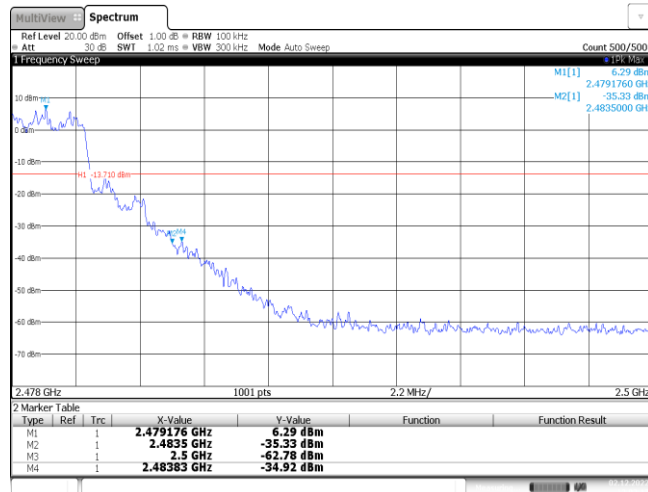
CH78  
Hopping mode



Date: 2 DEC 2022 13:00:09

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="683 638 1337 728"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402105 GHz</td> <td>7.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-21.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399585 GHz</td> <td>-19.30 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2.DEC 2022 12:24:08</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	7.59 dBm			M2	1		2.4 GHz	-21.71 dBm			M3	1		2.39 GHz	-58.26 dBm			M4	1		2.31 GHz	-63.57 dBm			M5	1		2.399585 GHz	-19.30 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	7.59 dBm																																									
M2	1		2.4 GHz	-21.71 dBm																																									
M3	1		2.39 GHz	-58.26 dBm																																									
M4	1		2.31 GHz	-63.57 dBm																																									
M5	1		2.399585 GHz	-19.30 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="683 1184 1337 1274"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.404953 GHz</td> <td>6.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-22.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-60.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-21.70 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2.DEC 2022 13:03:03</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404953 GHz	6.52 dBm			M2	1		2.4 GHz	-22.88 dBm			M3	1		2.39 GHz	-60.82 dBm			M4	1		2.31 GHz	-63.03 dBm			M5	1		2.399965 GHz	-21.70 dBm		
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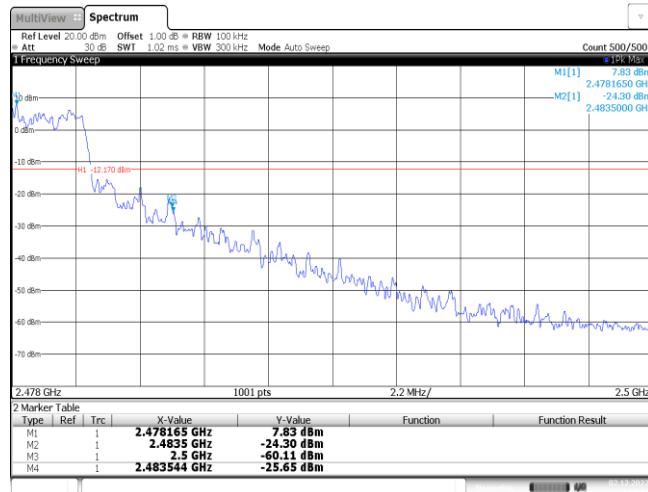
CH78  
Hopping mode



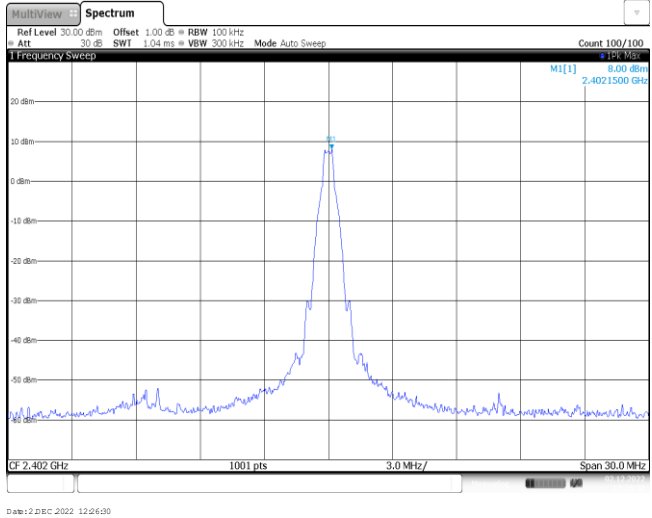
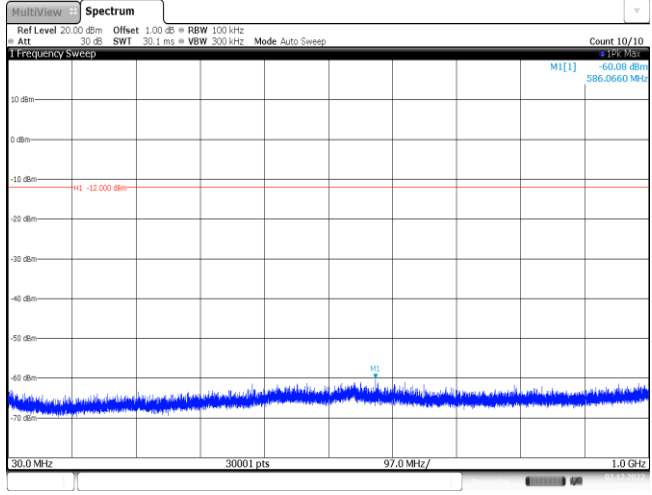
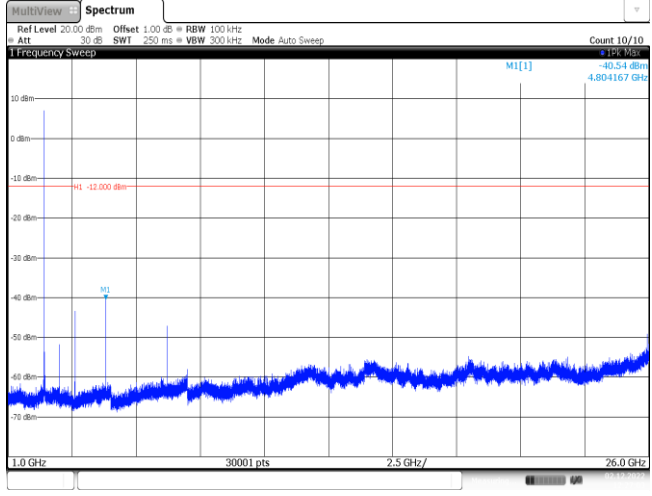
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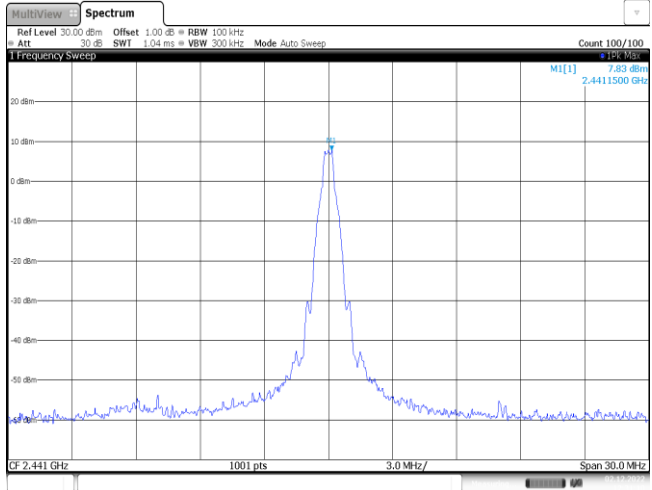
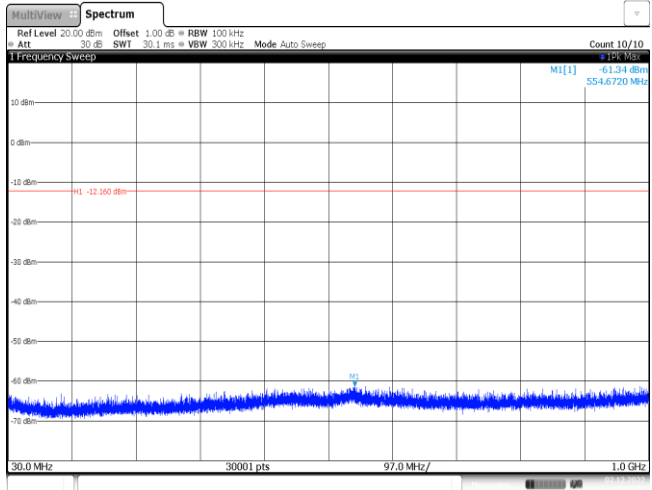
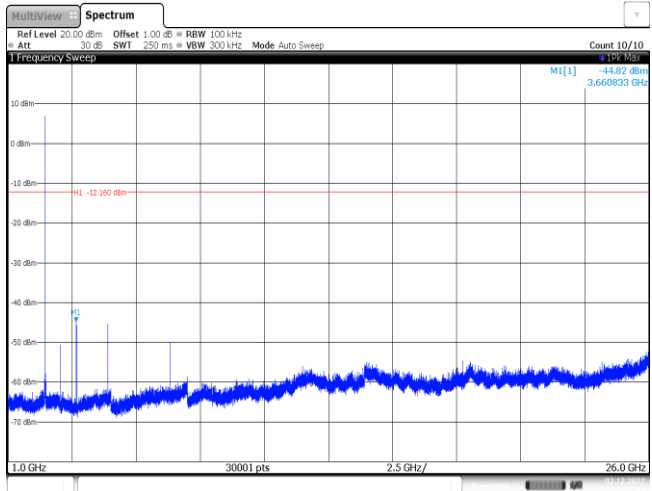
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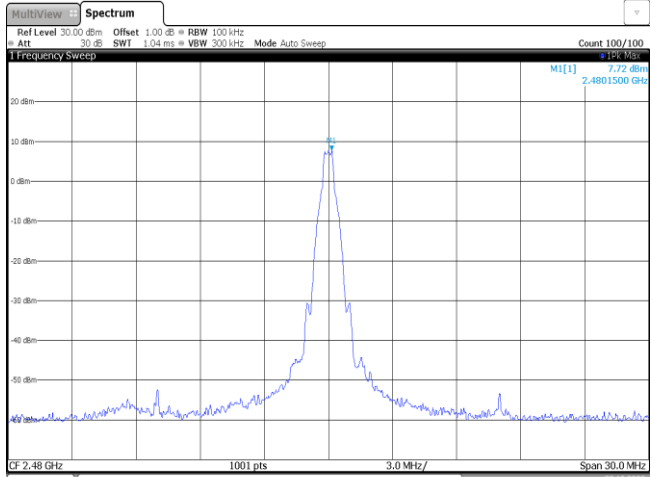
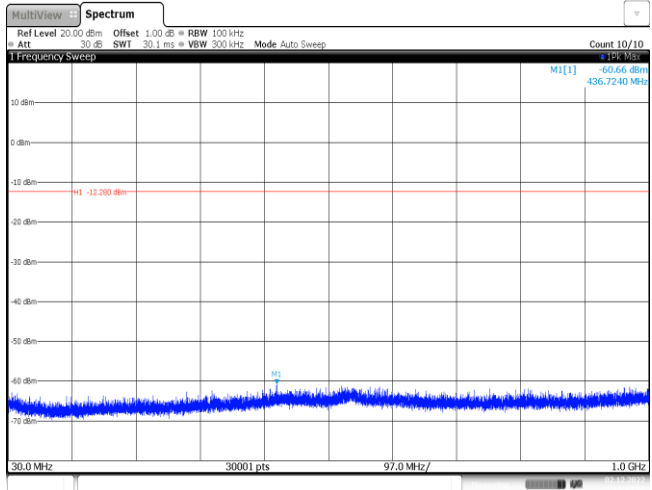
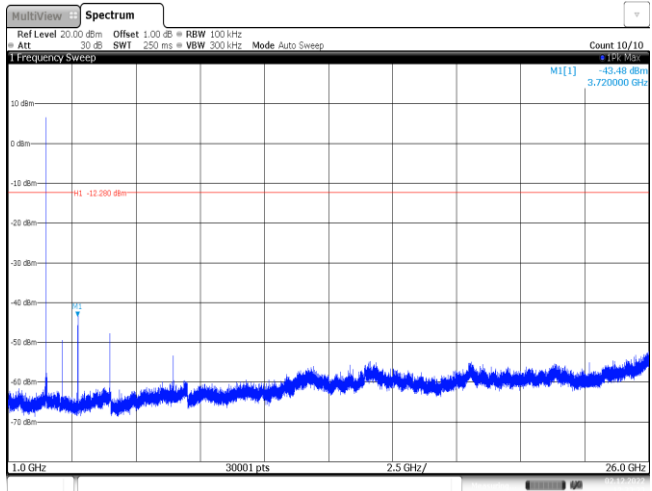
CH78  
Hoppig mode

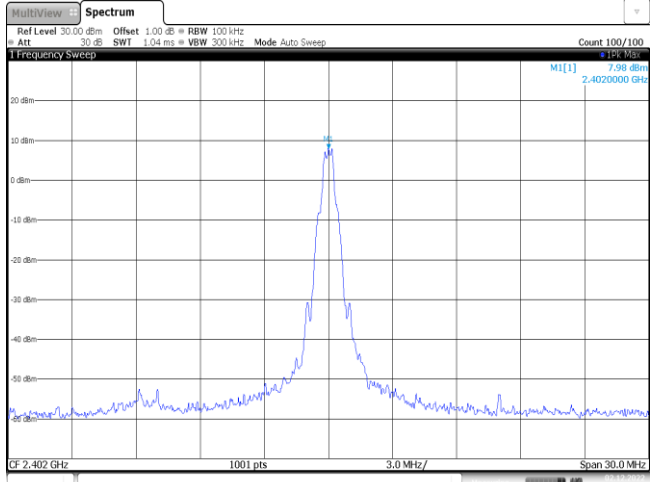
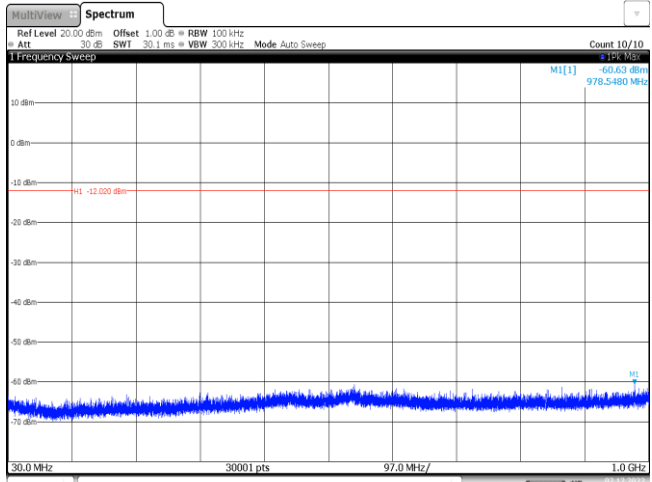
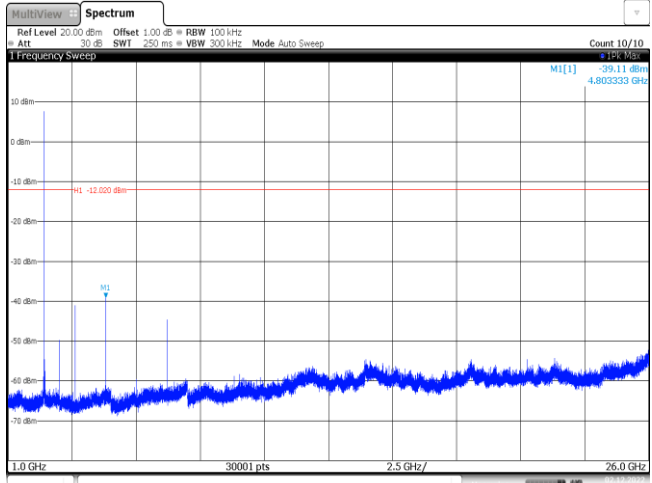




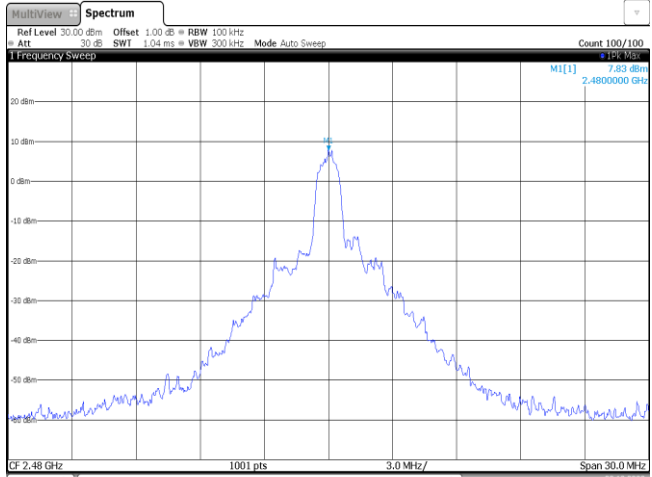
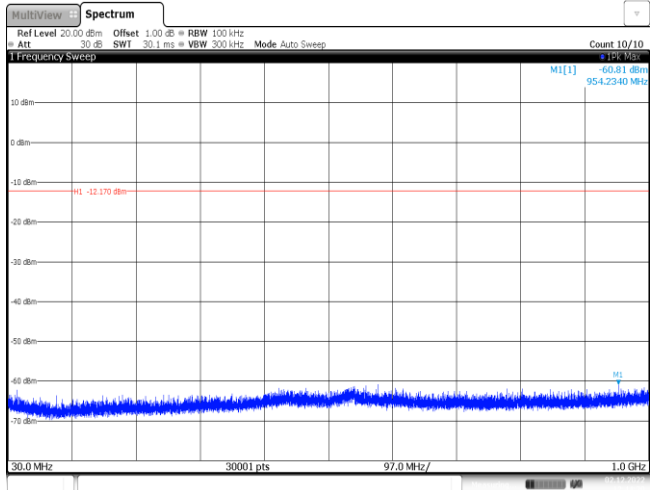
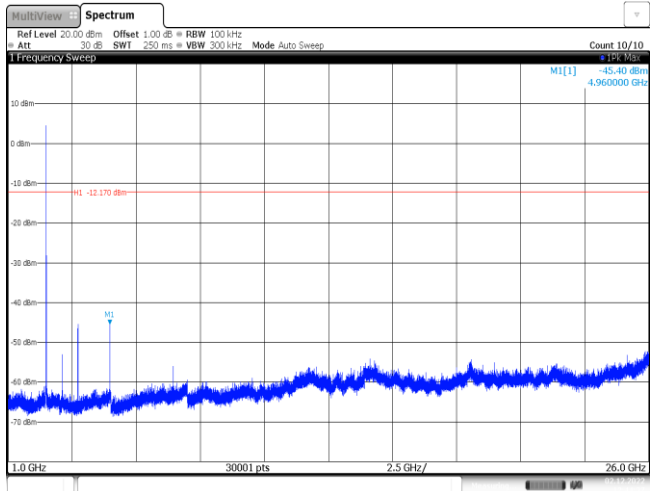
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<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

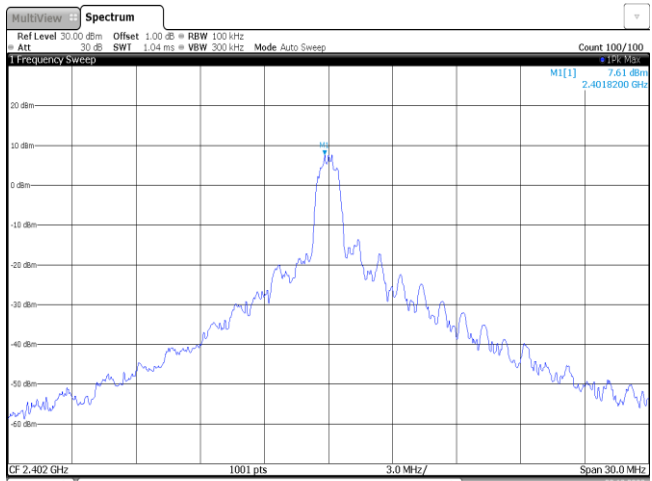
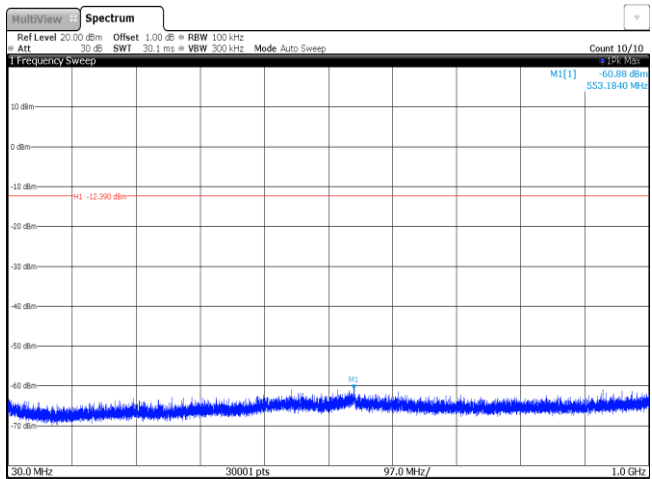
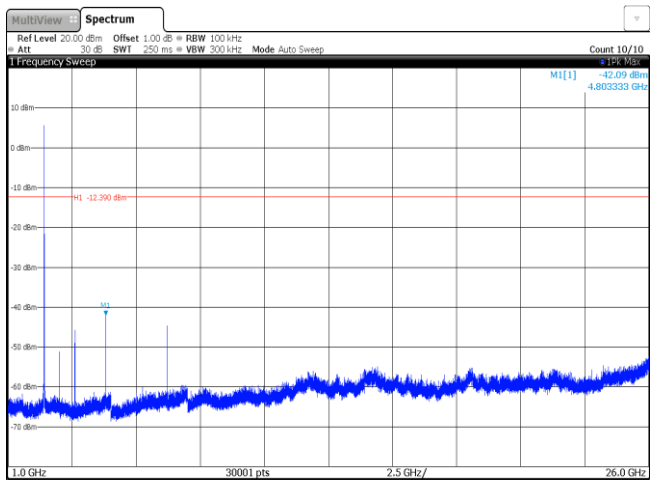
<p>CH39 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 7.83 dBm 2.4411500 GHz</p> <p>CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 2 DEC 2022 12:31:10</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -61.34 dBm 554.6720 MHz</p> <p>H1 -12.100 dBm</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 2 DEC 2022 12:31:26</p>
<p>CH39 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -44.82 dBm 3.660833 GHz</p> <p>H1 -12.100 dBm</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 2 DEC 2022 12:31:43</p>

<p>CH78 Reference level</p>	 <p>The plot shows a single sharp peak at 2.48 GHz with a magnitude of 7.72 dBm. The y-axis ranges from -60 dBm to 20 dBm, and the x-axis ranges from 2.48 GHz to 3.0 MHz. Parameters include Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, and Span 30.0 MHz.</p>
<p>CH78 30MHz~1000MHz</p>	 <p>The plot shows a noise floor across the 30 MHz to 1000 MHz range, with a maximum magnitude of -60.66 dBm. A red horizontal line is drawn at -12.00 dBm. The y-axis ranges from -70 dBm to 10 dBm, and the x-axis ranges from 30.0 MHz to 1.0 GHz. Parameters include Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, and Span 30.0 MHz.</p>
<p>CH78 1GHz~26GHz</p>	 <p>The plot shows a noise floor across the 1 GHz to 26 GHz range, with a maximum magnitude of -43.48 dBm. A red horizontal line is drawn at -12.00 dBm. The y-axis ranges from -70 dBm to 10 dBm, and the x-axis ranges from 1.0 GHz to 26.0 GHz. Parameters include Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, and Span 1.0 GHz.</p>

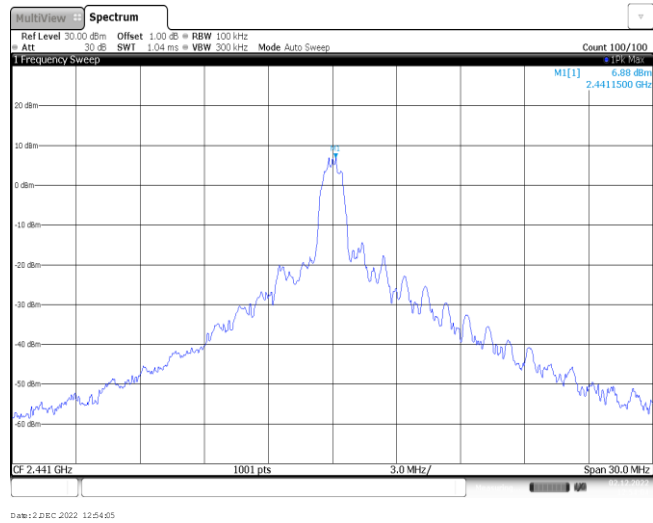
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 7.98 dBm 2.4020000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2.DEC 2022 12:39:07</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.63 dBm 978.5480 MHz H1 -12.000 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 2.DEC 2022 12:39:23</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -39.11 dBm 4.803333 GHz H1 -12.000 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 2.DEC 2022 12:39:29</p>		

<p>CH39 Reference level</p>	<p>Date: 2.DEC 2022 12:42:06</p>
<p>CH39 30MHz~1000MHz</p>	<p>Date: 2.DEC 2022 12:42:22</p>
<p>CH39 1GHz~26GHz</p>	<p>Date: 2.DEC 2022 12:42:28</p>

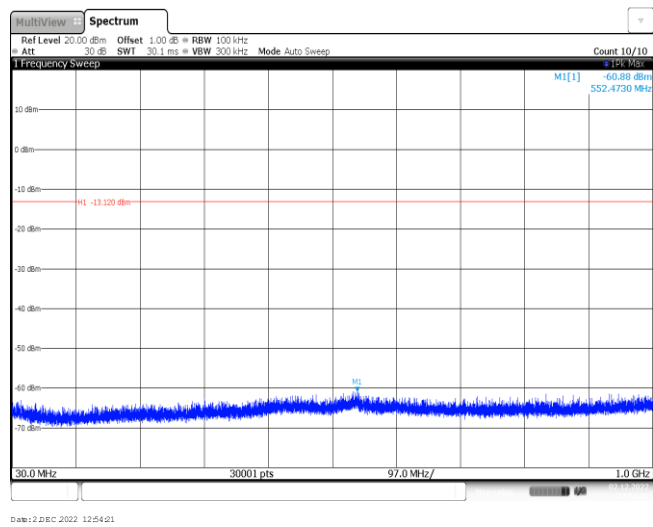
<p>CH78 Reference level</p>	 <p>The plot shows a spectrum with a prominent peak at 2.48 GHz. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The peak is labeled with a magnitude of 7.83 dBm. The plot title is 'Spectrum' and it includes technical parameters like 'Ref Level 30.00 dBm', 'Offset 1.00 dB', 'RBW 100 kHz', and 'Mode Auto Sweep'.</p>
<p>CH78 30MHz~1000MHz</p>	 <p>The plot shows a wide frequency range from 30 MHz to 1000 MHz. The power level is consistently low, around -60 dBm, indicating a noise floor. A red horizontal line is drawn at -12.170 dBm. The plot title is 'Spectrum' and it includes technical parameters like 'Ref Level 20.00 dBm', 'Offset 1.00 dB', 'RBW 100 kHz', and 'Mode Auto Sweep'.</p>
<p>CH78 1GHz~26GHz</p>	 <p>The plot shows a wide frequency range from 1.0 GHz to 26 GHz. The power level is consistently low, around -65 dBm, indicating a noise floor. A red horizontal line is drawn at -12.170 dBm. The plot title is 'Spectrum' and it includes technical parameters like 'Ref Level 20.00 dBm', 'Offset 1.00 dB', 'RBW 100 kHz', and 'Mode Auto Sweep'.</p>

Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 7.61 dBm 2.4016200 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2.DEC 2022 12:46:57</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.88 dBm 553.1840 MHz H1 -12.90 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 2.DEC 2022 12:47:13</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -42.09 dBm 4.803333 GHz H1 -12.90 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 2.DEC 2022 12:47:29</p>		

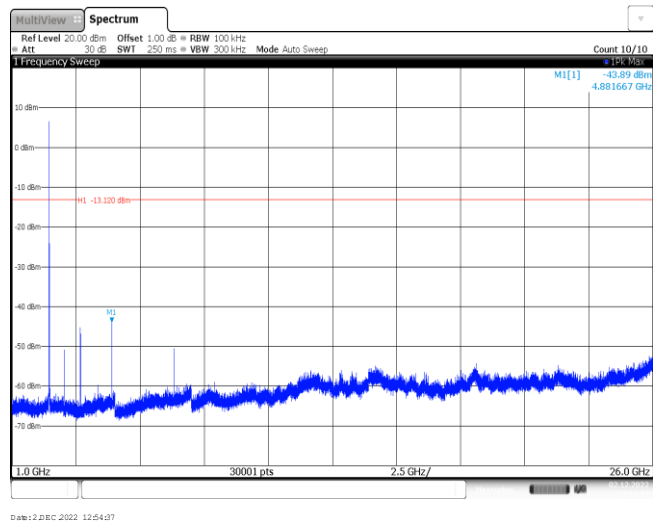
CH39  
Reference level



CH39  
30MHz~1000MHz

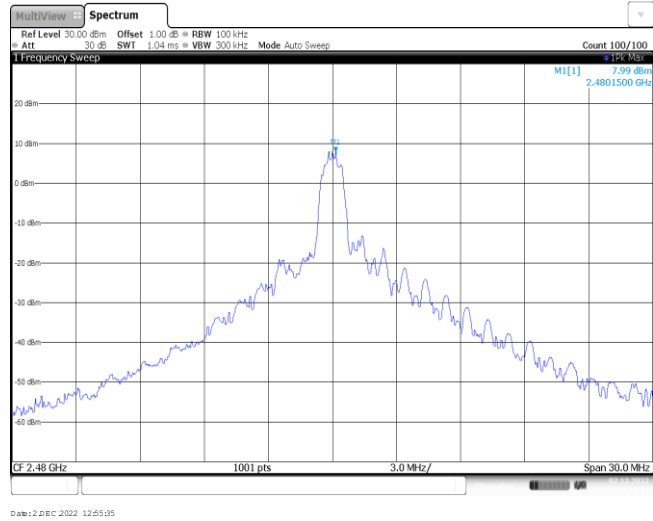


CH39  
1GHz~26GHz

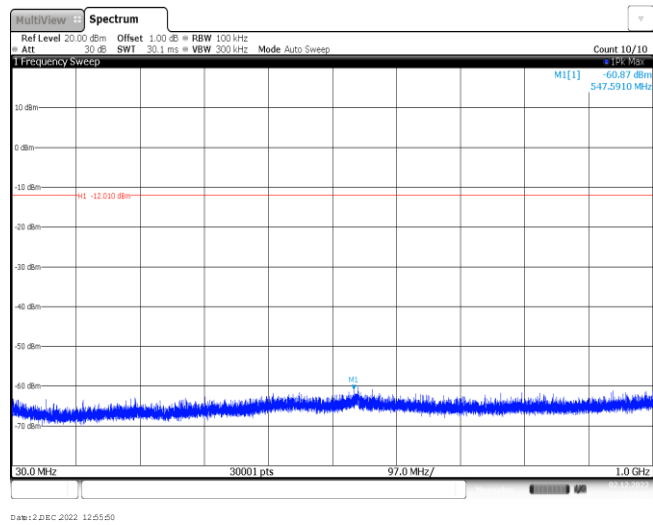




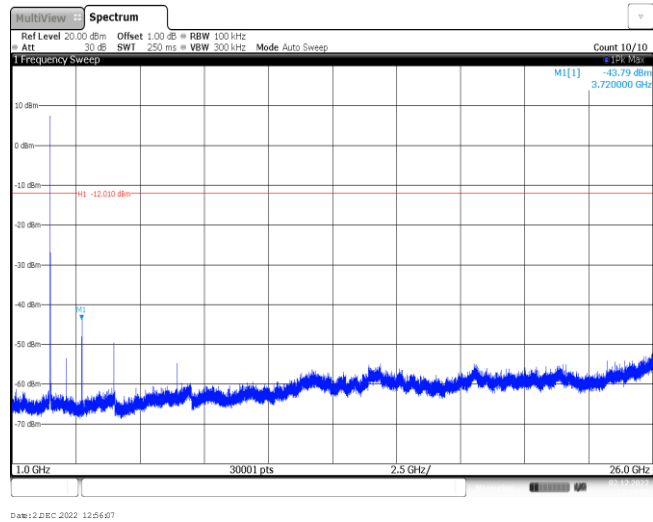
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



-----End of Report-----