

# APPENDIX REPORT

Project No.	SHT2107011005EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21070110004	Model No.	PH300A
Start test date	2021-07-29	Finish date	2021-07-29
Temperature	25.7°C	Humidity	39%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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(coducted)	PASS

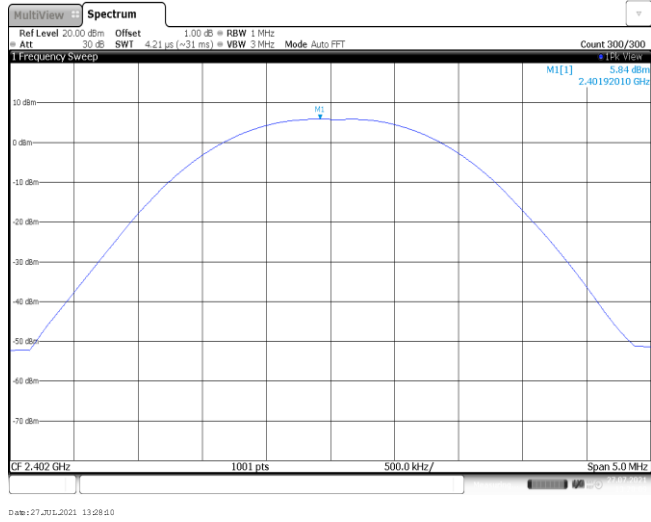
**Appendix A: Peak Output Power**

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	5.84	5.80	≤ 30.00	Pass
	39	6.52	6.48		
	78	8.53	8.41		
π/4DQPSK	00	6.06	5.55	≤ 21.00	Pass
	39	6.74	6.20		
	78	7.46	6.98		
8DPSK	00	1.67	0.96	≤ 21.00	Pass
	39	2.41	1.76		
	78	4.75	4.07		

Modulation Type:

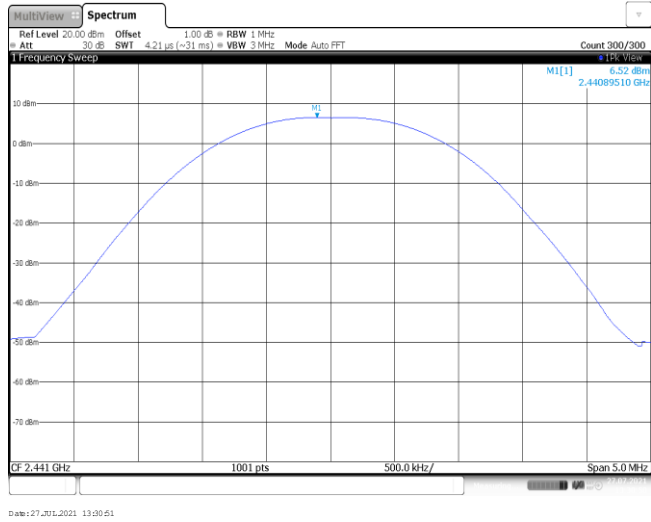
GFSK

CH00



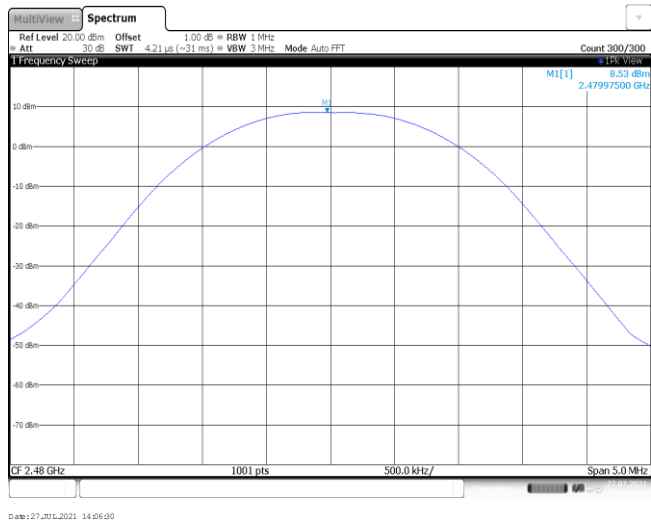
Date: 27.10.2021 13:28:10

CH39



Date: 27.10.2021 13:30:51

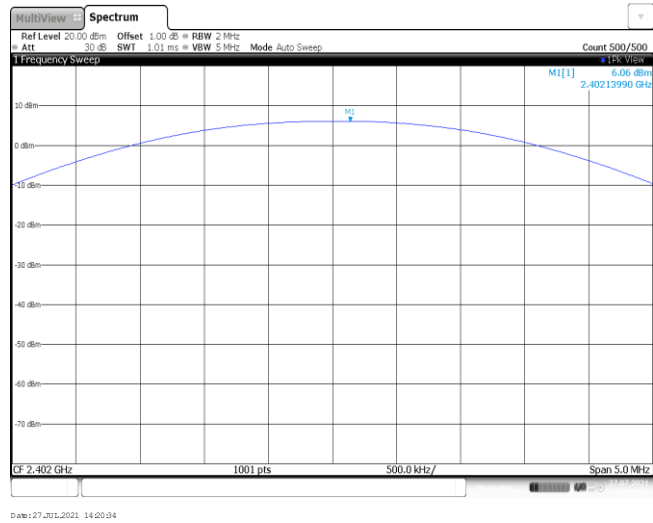
CH78



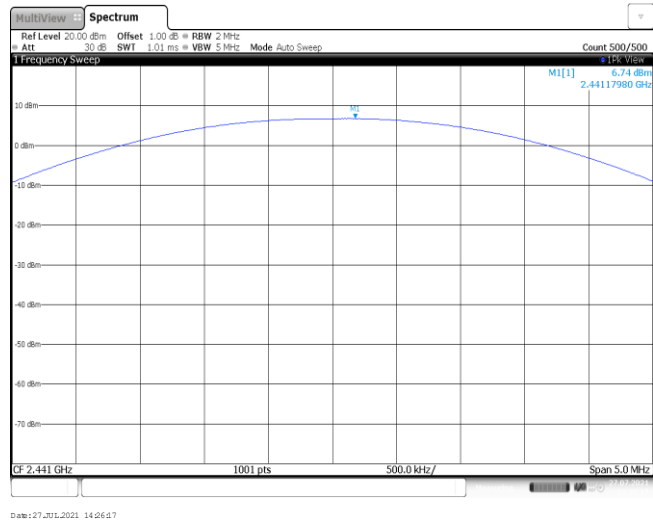
Date: 27.10.2021 14:06:00

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

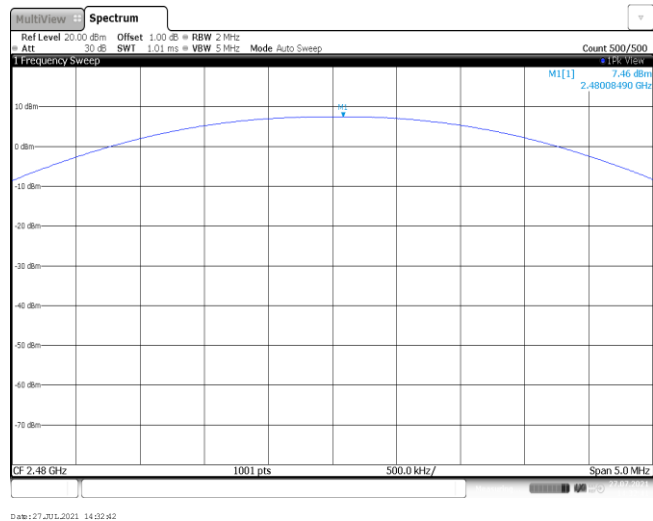
CH00



CH39

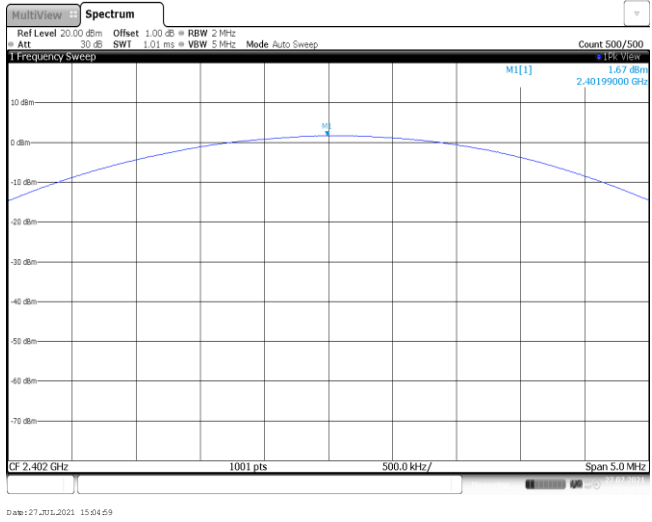


CH78

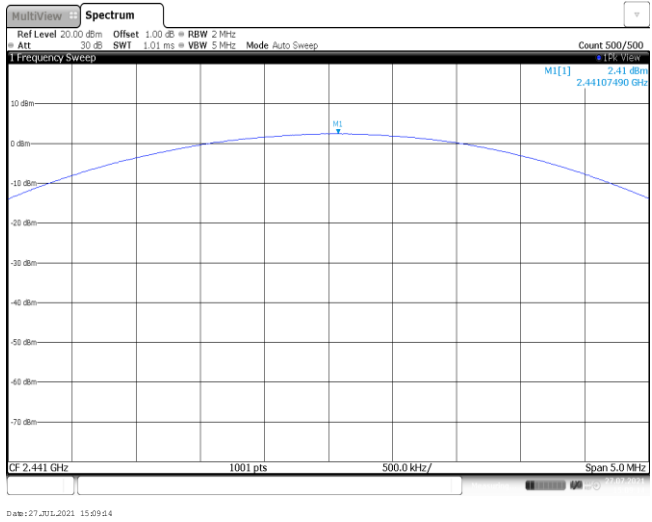


**Modulation Type: 8DPSK**

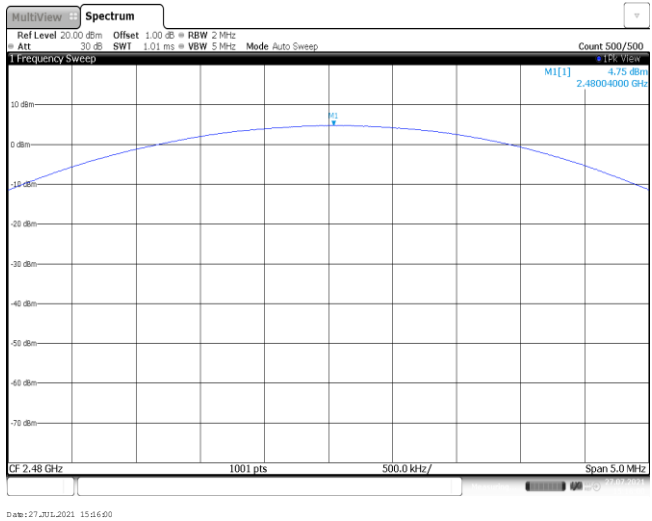
CH00



CH39



CH78

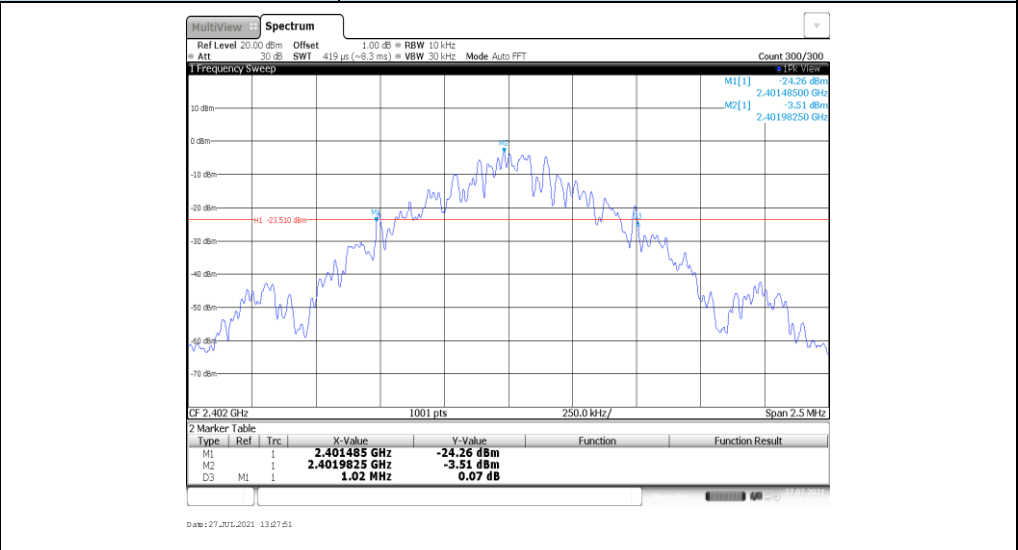


**Appendix B : 20 dB Bandwidth**

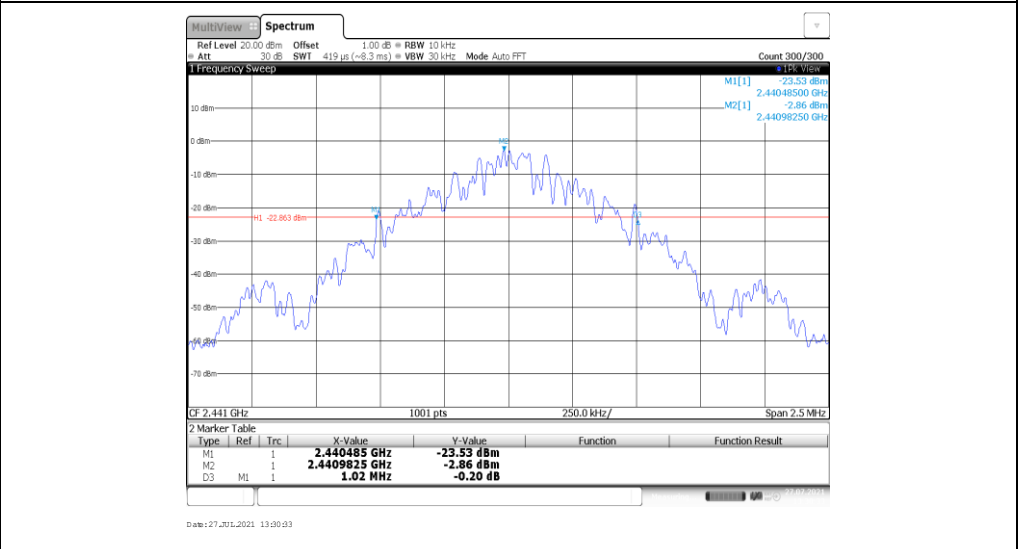
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	1020.00	-	Pass
	39	1020.00		
	78	1020.00		
$\pi/4$ DQPSK	00	1335.00	-	Pass
	39	1332.50		
	78	1335.00		
8DPSK	00	1307.50	-	Pass
	39	1305.00		
	78	1350.00		

**Modulation Type: GFSK**

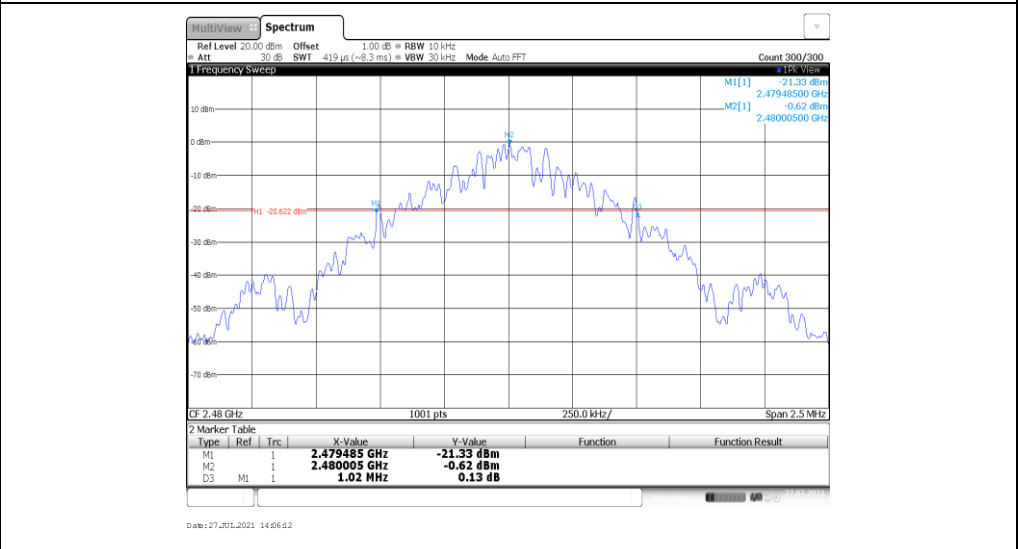
CH00



CH39

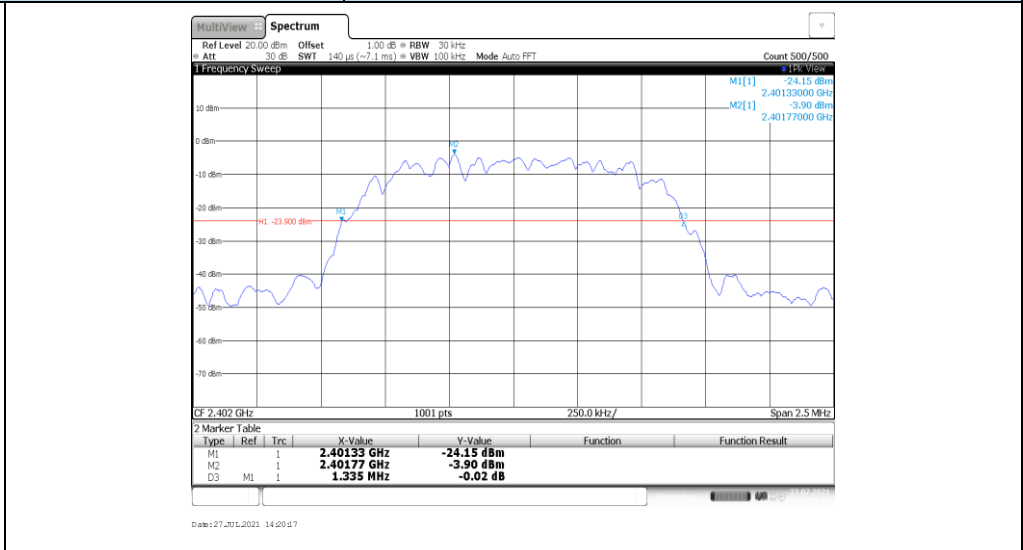


CH78

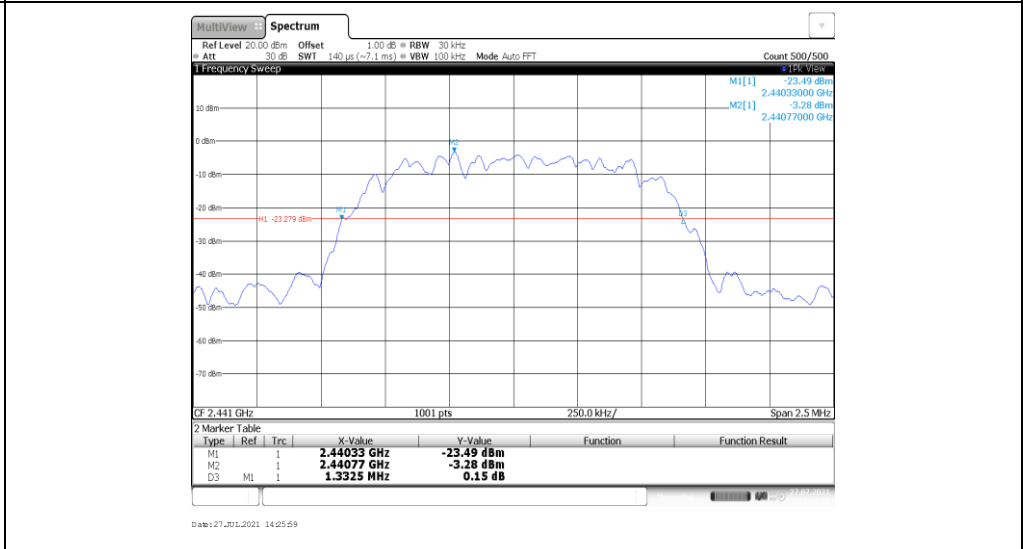


**Modulation Type:**  **$\pi/4$ DQPSK**

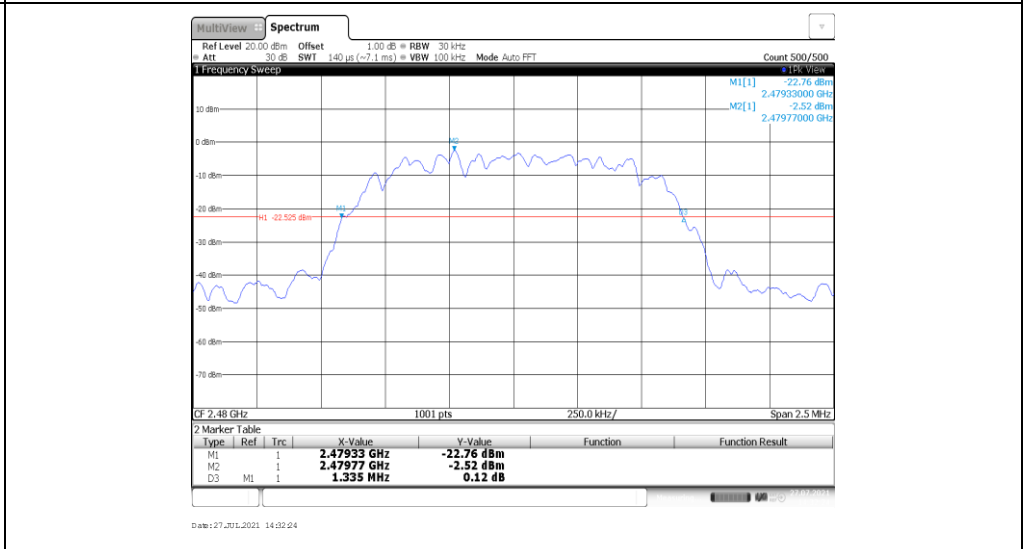
CH00



CH39



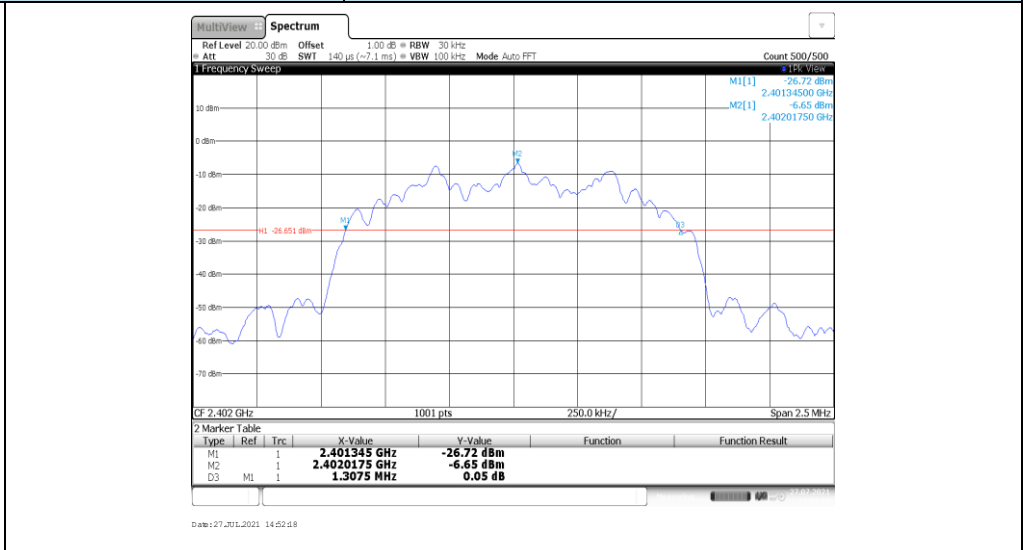
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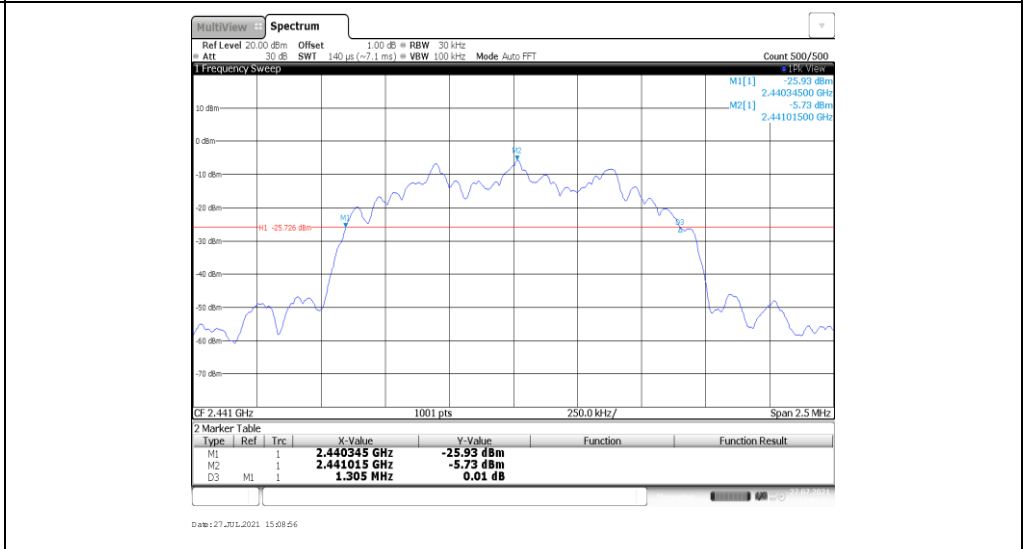


**Modulation Type: 8DPSK**

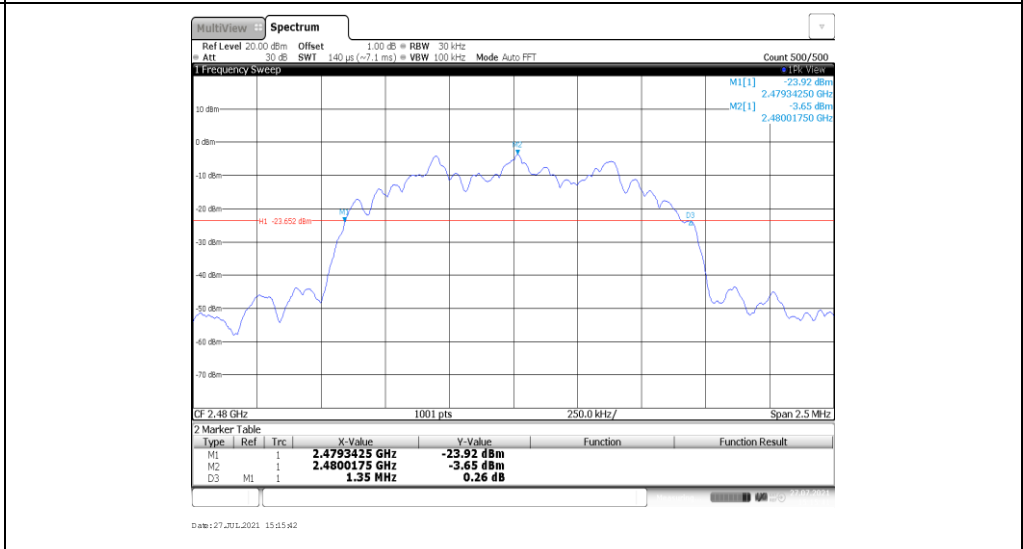
CH00



CH39



CH78

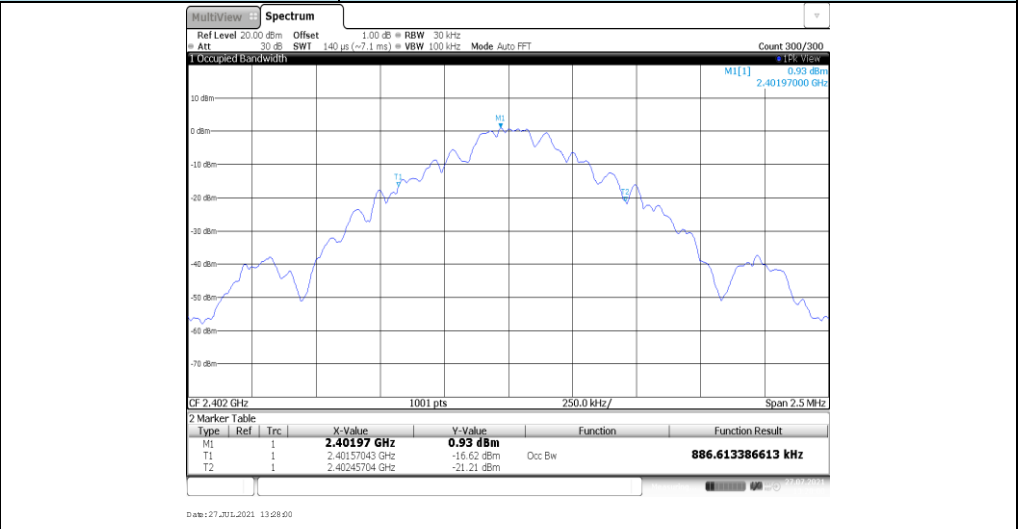


**Appendix C: 99% Occupied Bandwidth**

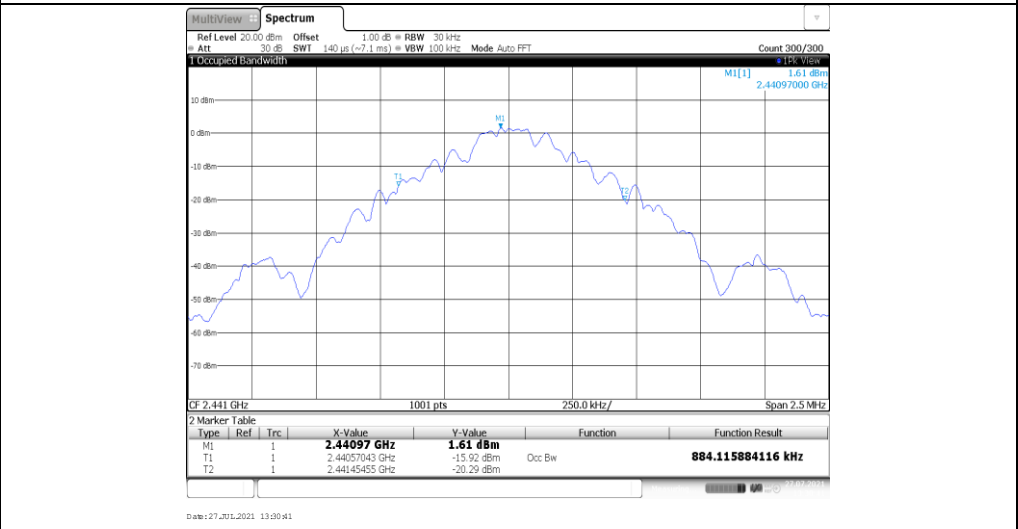
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.89	-	Pass
	39	0.88		
	78	0.88		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		
8DPSK	00	1.22	-	Pass
	39	1.21		
	78	1.22		

**Modulation Type: GFSK**

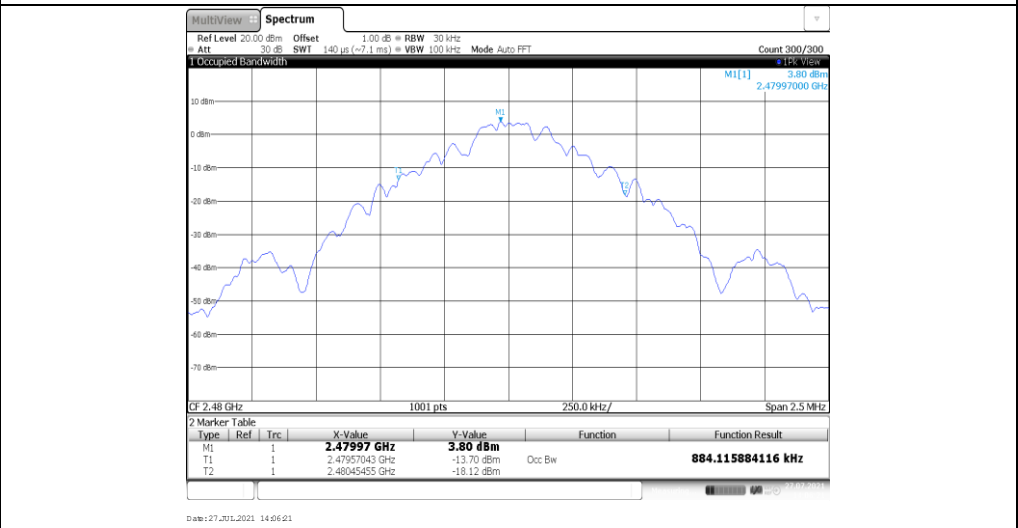
CH00



CH39



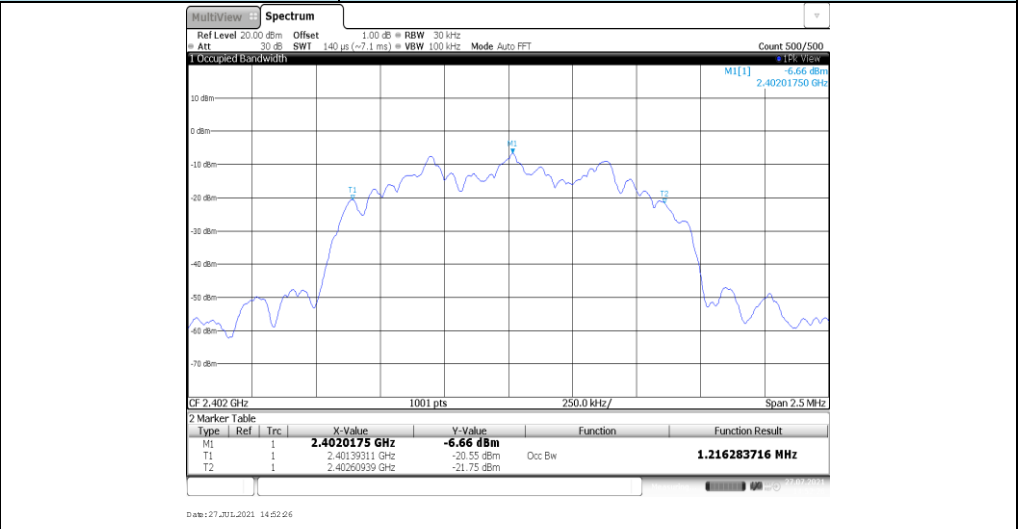
CH78



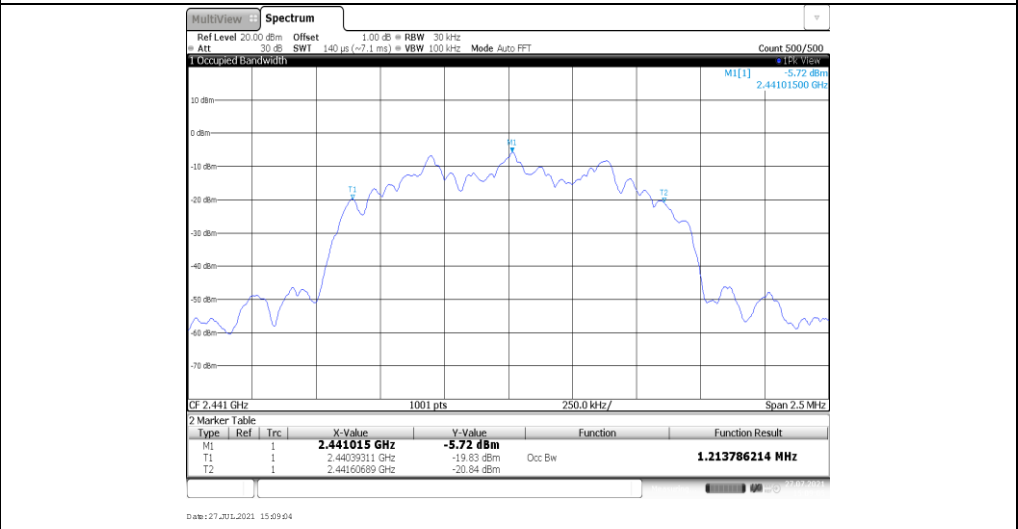
Modulation Type: $\pi/4$ DQPSK																													
CH00	<p><b>1 Occupied Bandwidth</b></p> <p>M1[1] 2.4017702 GHz -3.95 dBm</p> <p>CF 2.402 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4017702 GHz</td> <td>-3.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.40142308 GHz</td> <td>-13.94 dBm</td> <td>Occ Bw</td> <td>1.181318681 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4020944 GHz</td> <td>-16.17 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27_031_2021 14:20:25</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4017702 GHz	-3.95 dBm			T1	1		2.40142308 GHz	-13.94 dBm	Occ Bw	1.181318681 MHz	T2	1		2.4020944 GHz	-16.17 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4017702 GHz	-3.95 dBm																									
T1	1		2.40142308 GHz	-13.94 dBm	Occ Bw	1.181318681 MHz																							
T2	1		2.4020944 GHz	-16.17 dBm																									
CH39	<p><b>1 Occupied Bandwidth</b></p> <p>M1[1] 2.4407702 GHz -3.29 dBm</p> <p>CF 2.441 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz</p> <table border="1"> <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>2.4407702 GHz</td> <td>-3.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.44042357 GHz</td> <td>-14.54 dBm</td> <td>Occ Bw</td> <td>1.178821179 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4410944 GHz</td> <td>-15.49 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27_031_2021 14:26:97</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4407702 GHz	-3.29 dBm			T1	1		2.44042357 GHz	-14.54 dBm	Occ Bw	1.178821179 MHz	T2	1		2.4410944 GHz	-15.49 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4407702 GHz	-3.29 dBm																									
T1	1		2.44042357 GHz	-14.54 dBm	Occ Bw	1.178821179 MHz																							
T2	1		2.4410944 GHz	-15.49 dBm																									
CH78	<p><b>1 Occupied Bandwidth</b></p> <p>M1[1] 2.4797702 GHz -2.55 dBm</p> <p>CF 2.48 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz</p> <table border="1"> <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>2.4797702 GHz</td> <td>-2.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.47942357 GHz</td> <td>-13.92 dBm</td> <td>Occ Bw</td> <td>1.178821179 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4800944 GHz</td> <td>-14.63 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27_031_2021 14:32:32</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4797702 GHz	-2.55 dBm			T1	1		2.47942357 GHz	-13.92 dBm	Occ Bw	1.178821179 MHz	T2	1		2.4800944 GHz	-14.63 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4797702 GHz	-2.55 dBm																									
T1	1		2.47942357 GHz	-13.92 dBm	Occ Bw	1.178821179 MHz																							
T2	1		2.4800944 GHz	-14.63 dBm																									

**Modulation Type: 8DPSK**

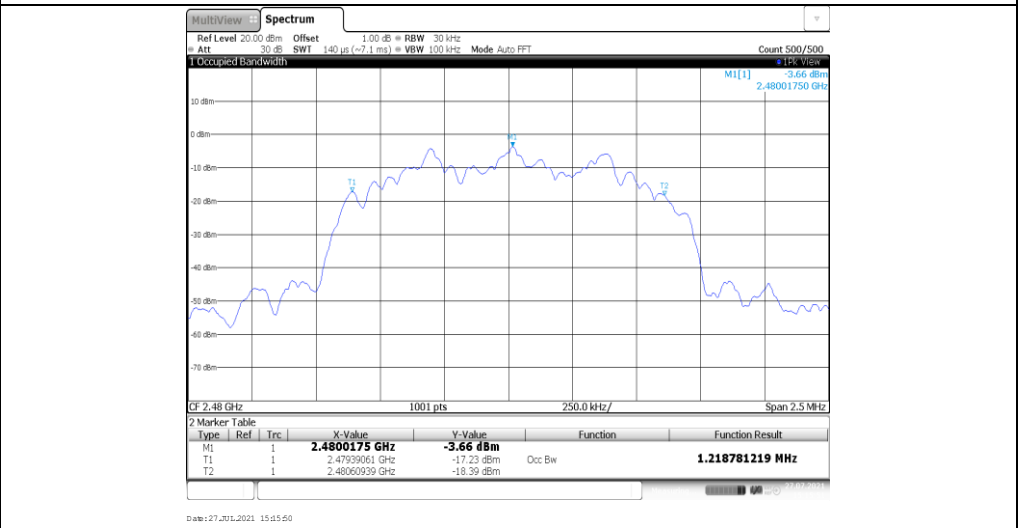
CH00



CH39



CH78



**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥1020.00	Pass
$\pi/4$ DQPSK	39	1.00	≥890.00	Pass
8DPSK	39	1.00	≥900.00	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

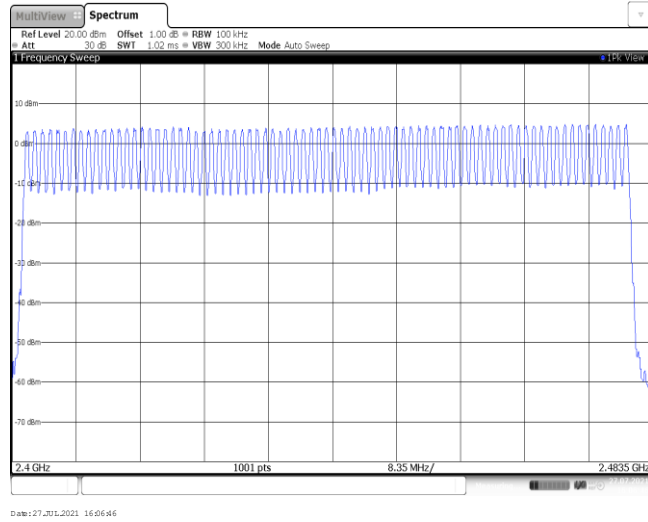
<p style="text-align: center;">GFSK</p>	<p style="text-align: center;">Date: 27_Jul_2021 16:05:03</p>
<p style="text-align: center;"><math>\pi/4</math>DQPSK</p>	<p style="text-align: center;">Date: 27_Jul_2021 15:56:05</p>
<p style="text-align: center;">8DPSK</p>	<p style="text-align: center;">Date: 27_Jul_2021 15:51:07</p>

**Appendix E: Hopping Channel Number**

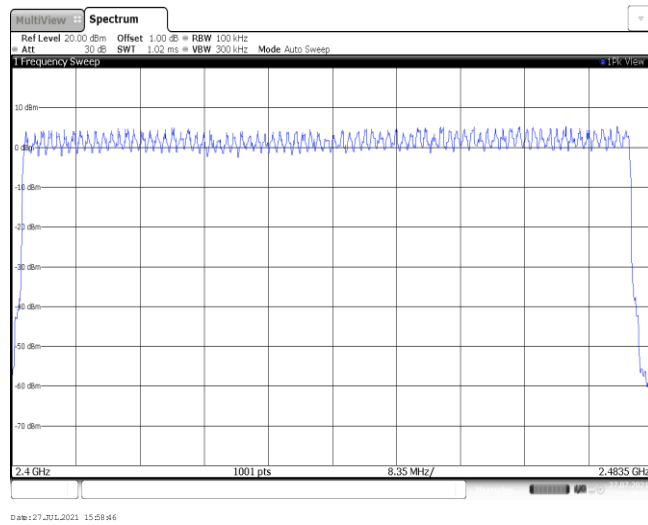
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



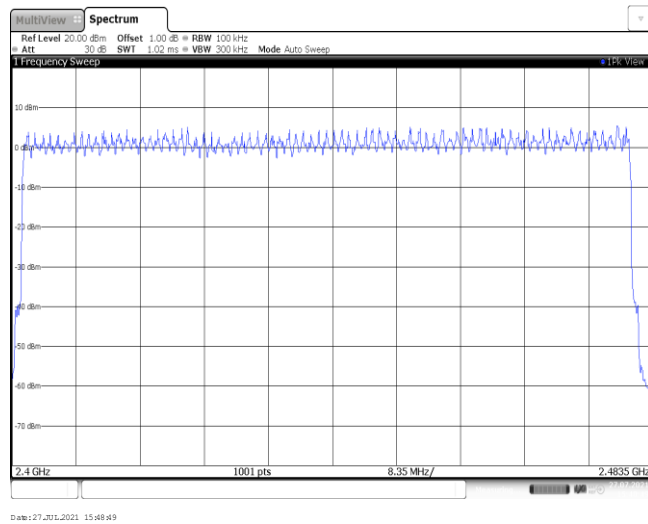
GFSK



$\pi/4$ DQPSK

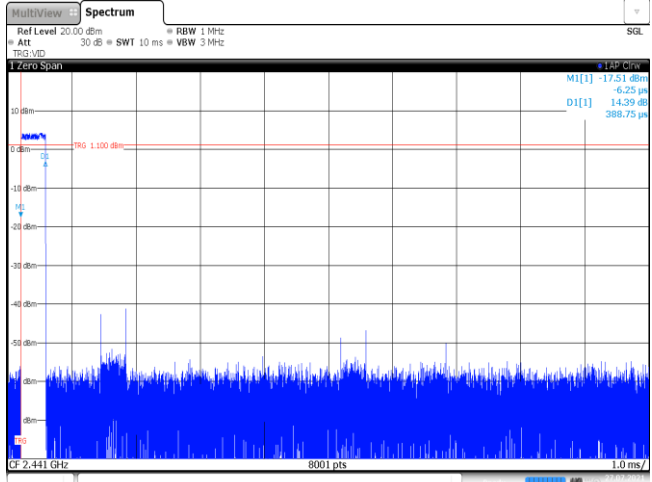
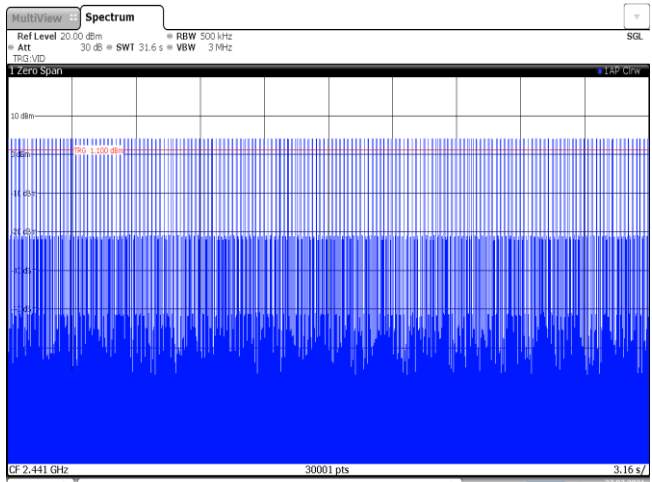
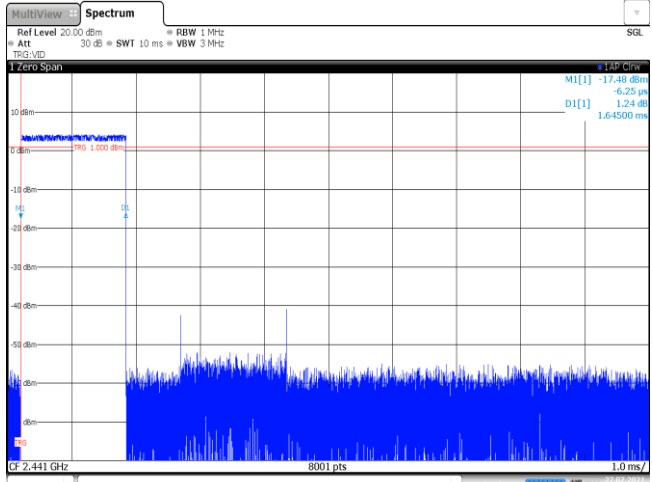


8DPSK

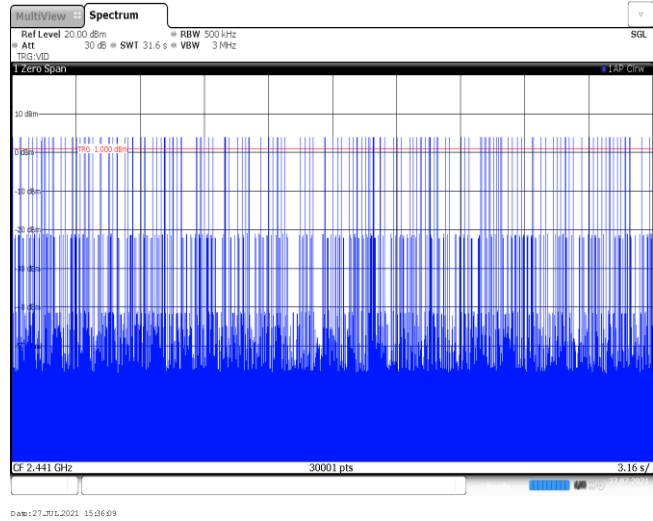


**Appendix F: Dwell Time**

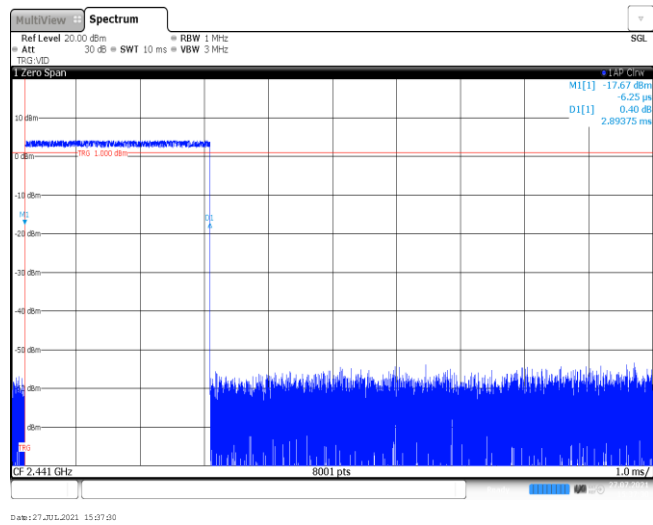
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	319	0.12	≤ 0.40	Pass
	DH3	1.65	155	0.26		
	DH5	2.89	115	0.33		
π/4DQPSK	2DH1	0.40	318	0.13	≤ 0.40	Pass
	2DH3	1.65	157	0.26		
	2DH5	2.90	109	0.32		
8DPSK	3DH1	0.40	318	0.13	≤ 0.40	Pass
	3DH3	1.65	163	0.27		
	3DH5	2.90	101	0.29		

Modulation Type:	GFSK
<p>DH1 Burst width</p>	 <p>A spectrum plot showing a signal burst. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at 0 dBm with a threshold (TRG) of 1.100 dBm. The signal burst is visible as a blue shaded area between approximately -10 dBm and 0 dBm. The plot shows 8001 points over a 1.0 ms duration.</p> <p>Ref Level 20.00 dBm    RBW 1 MHz Att 30 dB    SWT 10 ms    VBW 3 MHz TRG:VD</p> <p>M1[1] -17.51 dBm D1[1] 14.39 dB 388.75 ps</p> <p>TRG 1.100 dBm</p> <p>CF 2.441 GHz    8001 pts    1.0 ms/</p> <p>Date: 27.01.2021 15:24:09</p>
<p>DH1 Burst number</p>	 <p>A spectrum plot showing a continuous signal burst. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at 0 dBm with a threshold (TRG) of 1.100 dBm. The signal burst is visible as a blue shaded area between approximately -10 dBm and 0 dBm. The plot shows 30001 points over a 3.16 s duration.</p> <p>Ref Level 20.00 dBm    RBW 500 kHz Att 30 dB    SWT 31.6 s    VBW 3 MHz TRG:VD</p> <p>TRG 1.100 dBm</p> <p>CF 2.441 GHz    30001 pts    3.16 s/</p> <p>Date: 27.01.2021 15:24:04</p>
<p>DH3 Burst width</p>	 <p>A spectrum plot showing a signal burst. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at 0 dBm with a threshold (TRG) of 1.000 dBm. The signal burst is visible as a blue shaded area between approximately -10 dBm and 0 dBm. The plot shows 8001 points over a 1.0 ms duration.</p> <p>Ref Level 20.00 dBm    RBW 1 MHz Att 30 dB    SWT 10 ms    VBW 3 MHz TRG:VD</p> <p>M1[1] -17.48 dBm D1[1] 1.24 dB 1.64500 ms</p> <p>TRG 1.000 dBm</p> <p>CF 2.441 GHz    8001 pts    1.0 ms/</p> <p>Date: 27.01.2021 15:25:04</p>

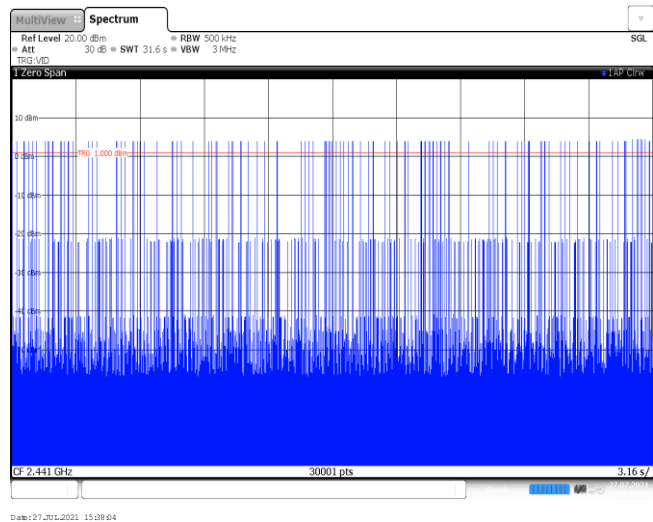
DH3  
Burst number



DH5  
Burst width

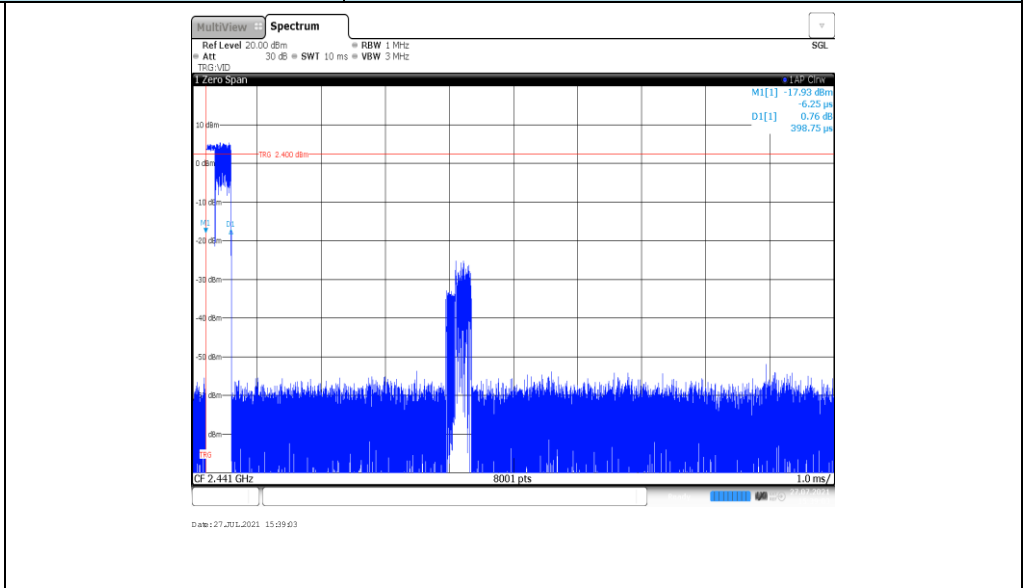


DH5  
Burst number

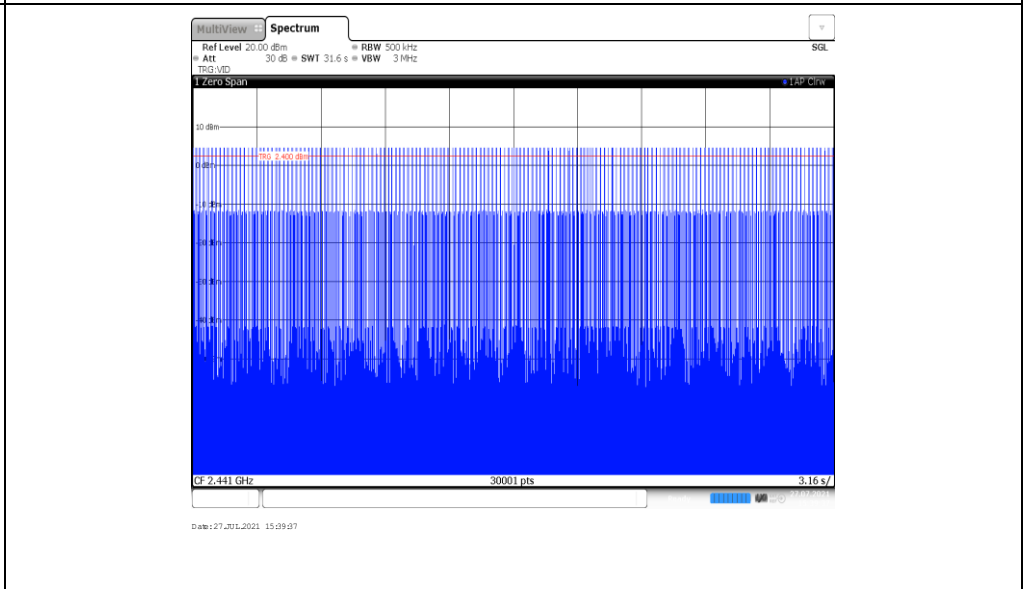


**Modulation Type:**  $\pi/4$ DQPSK

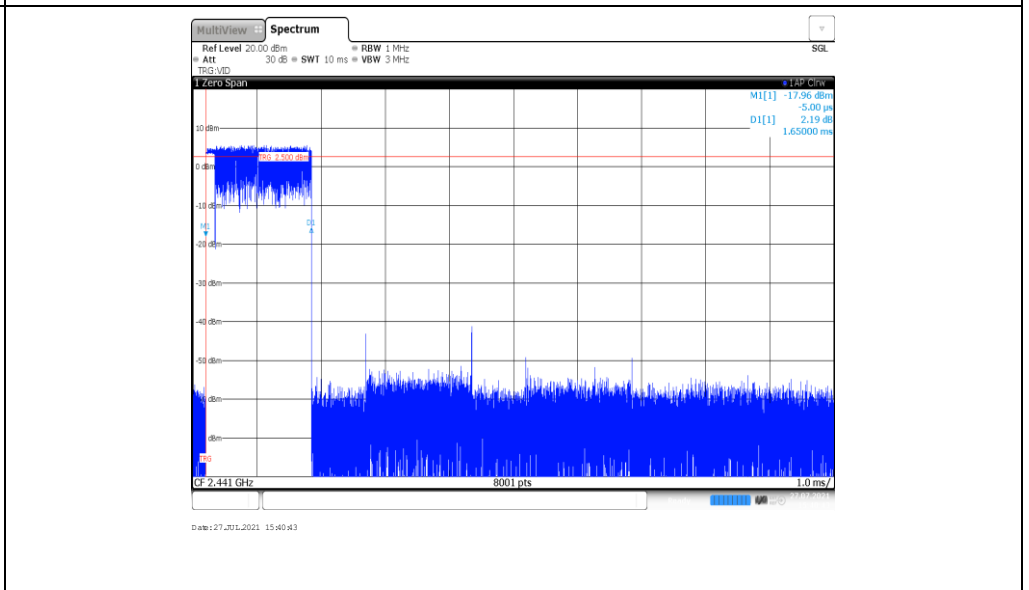
2DH1  
Burst width



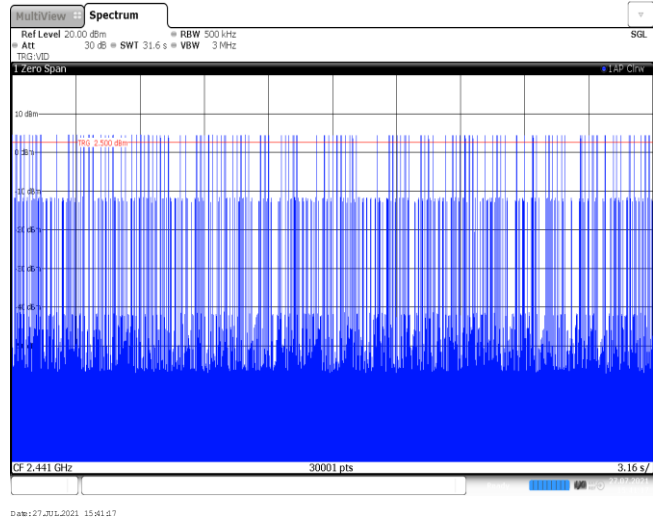
2DH1  
Burst number



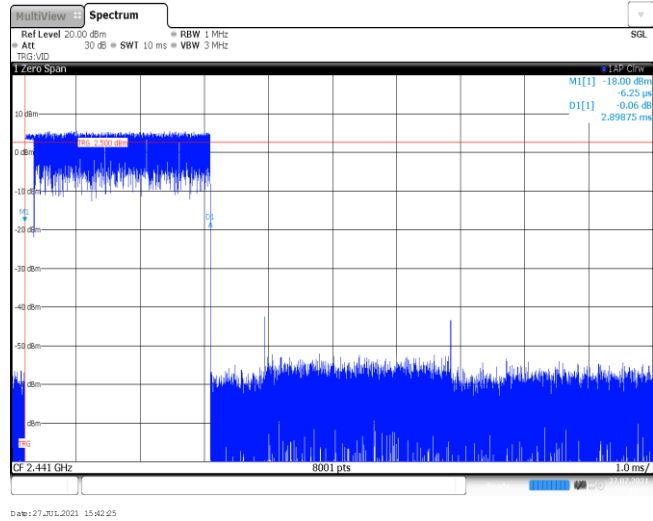
2DH3  
Burst width



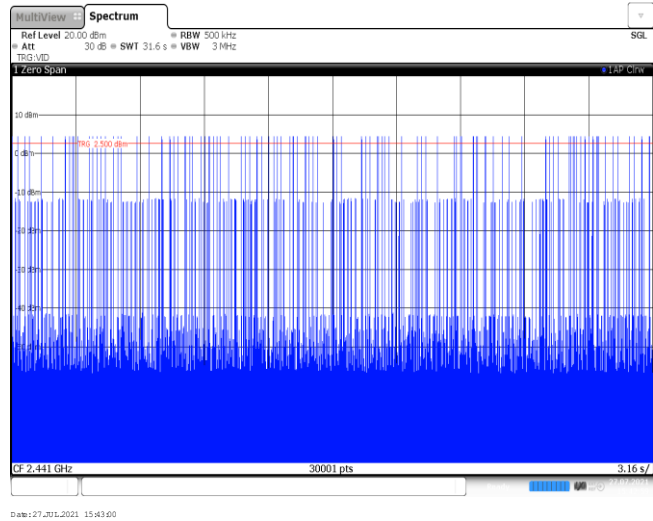
2DH3  
Burst number



2DH5  
Burst width

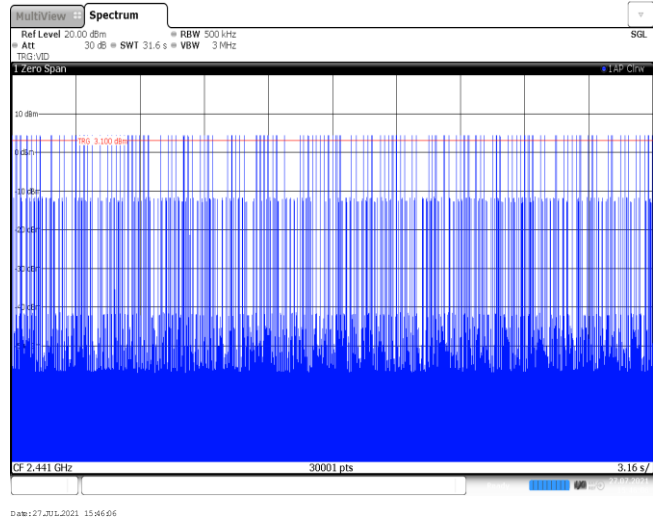


2DH5  
Burst number

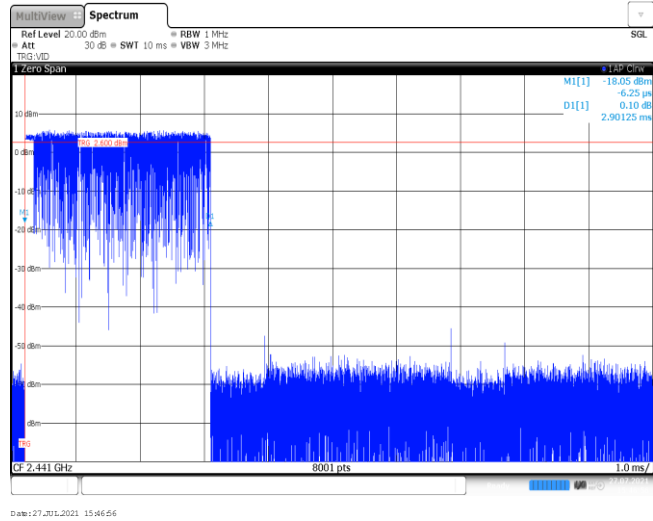


Modulation Type: 8DPSK	
3DH1 Burst width	<p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M1[1] -17.87 dBm D1[1] -0.06 dB 398.75 ps</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 27.10.2021 15:43:54</p>
3DH1 Burst number	<p>Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 27.10.2021 15:44:28</p>
3DH3 Burst width	<p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M1[1] -17.94 dBm D1[1] 2.64 dB 1.64875 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 27.10.2021 15:45:02</p>

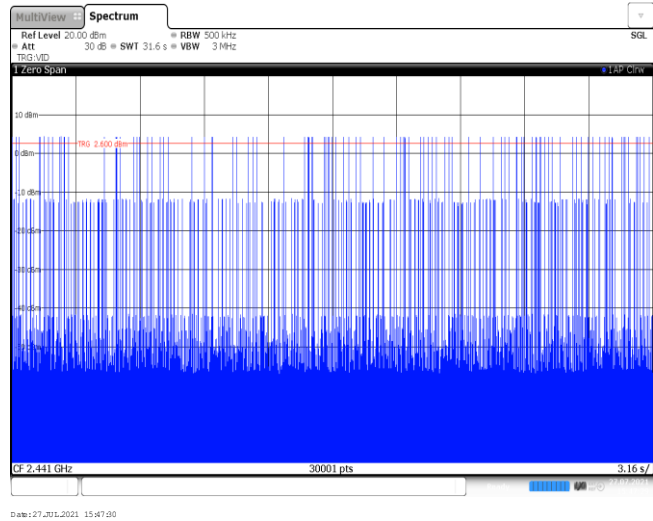
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

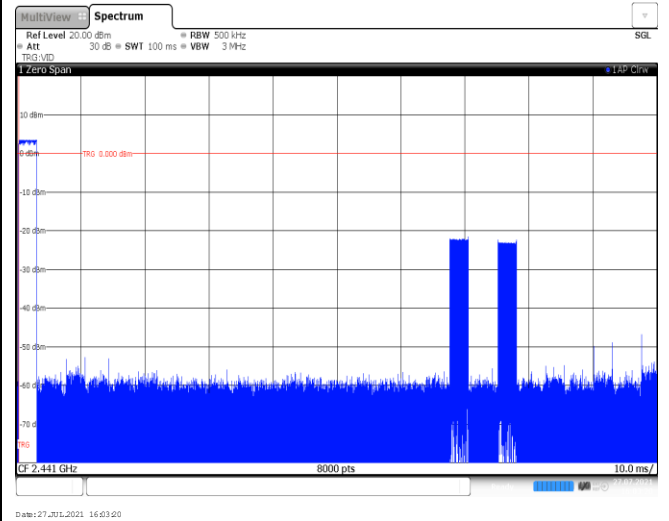
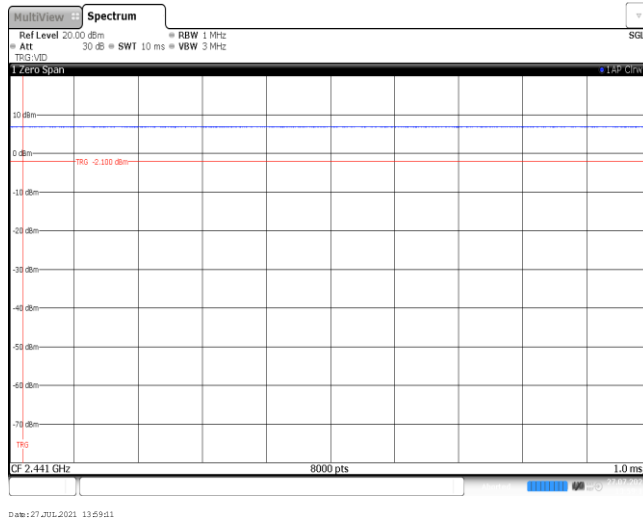




**Appendix G: Duty Cycle Correction Factor (DCCF)**

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	1.00	100	3	-30.46
$\pi/4$ DQPSK	2441	1.00	100	1	-40.00
8DPSK	2441	1.00	100	1	-40.00

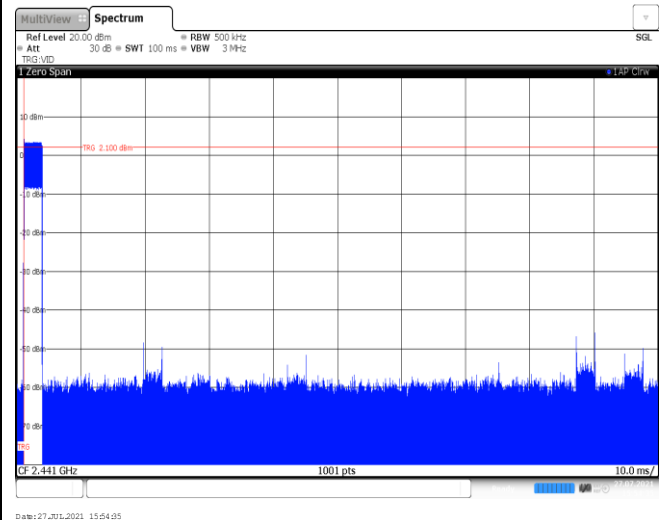
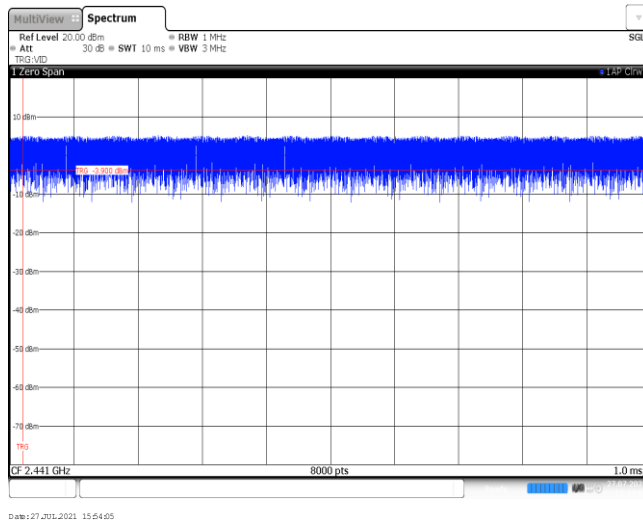
GFSK



T<sub>on</sub> time for single burst

Burst Quantity

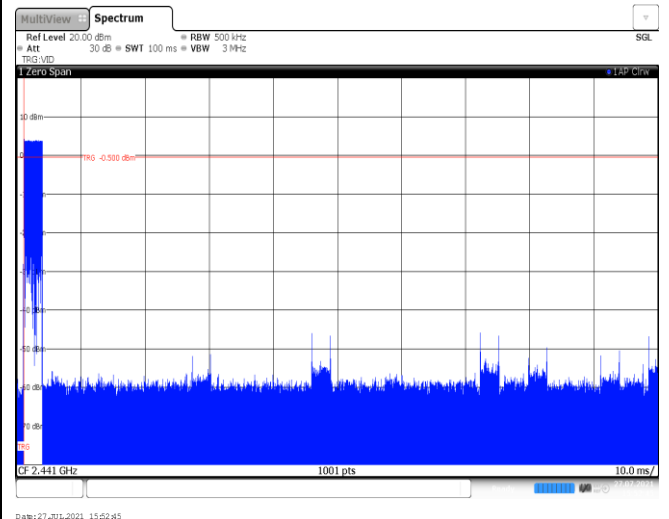
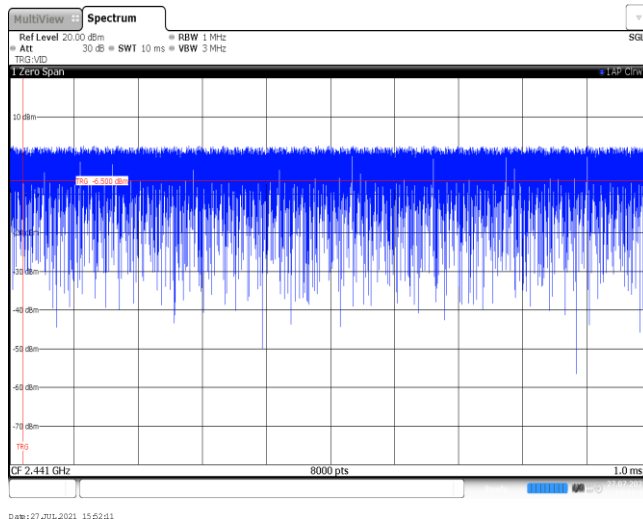
$\pi/4$  DQPSK



T<sub>on</sub> time for single burst

Burst Quantity

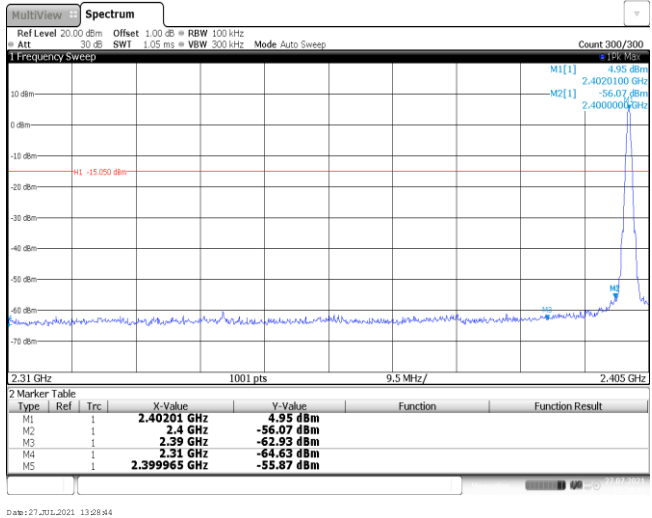
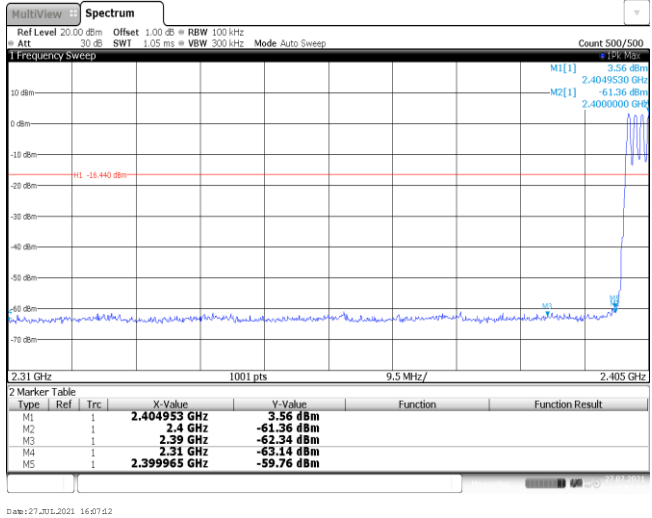
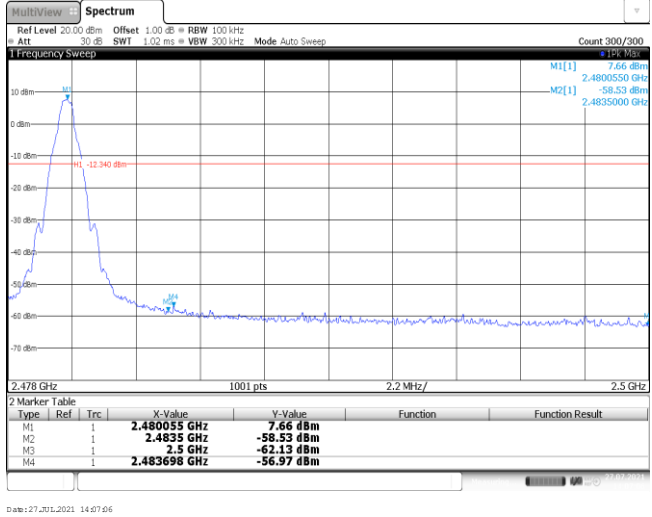
8DPSK



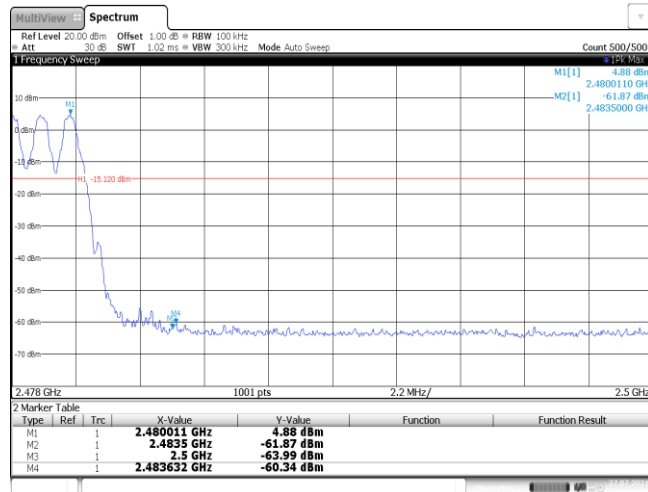
T<sub>on</sub> time for single burst

Burst Quantity

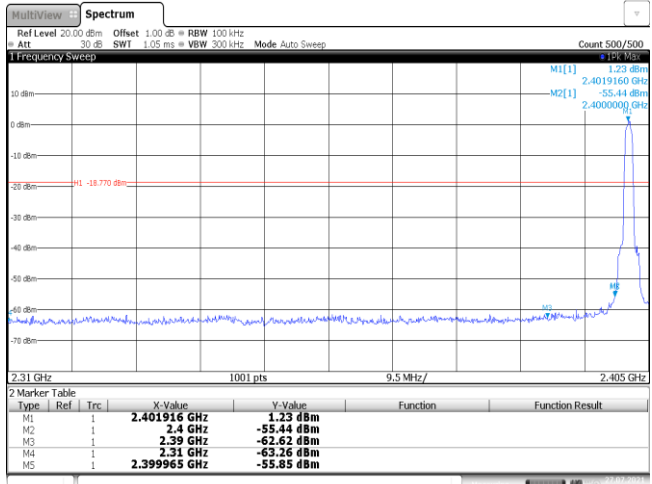
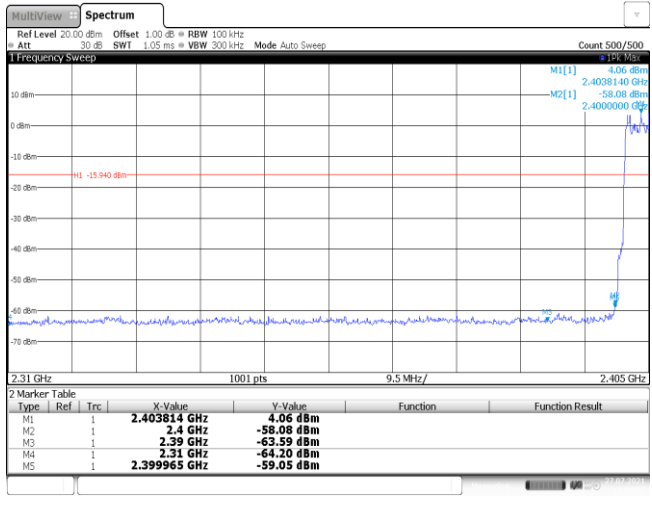
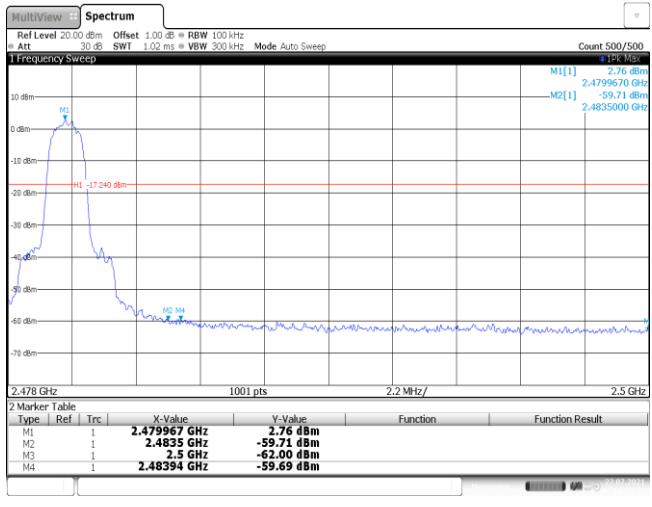
**Appendix H: Band edge and Spurious Emissions (conducted)**

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

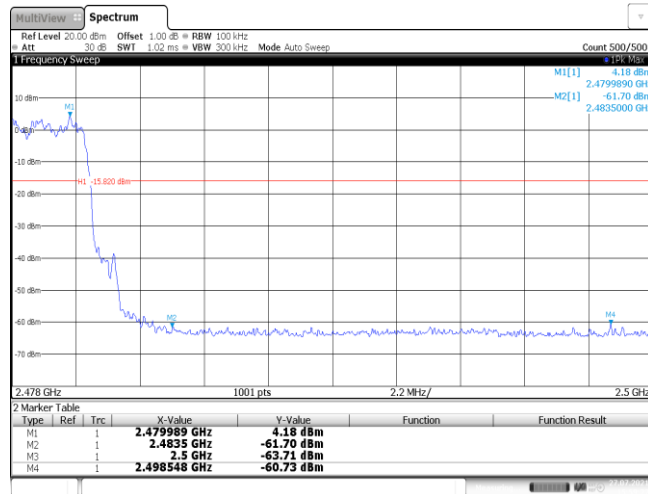
CH78  
Hopping mode



Date: 27\_JUL\_2021 16:07:27

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="683 638 1337 734"> <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>2.401916 GHz</td> <td>1.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-55.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-55.85 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27.10.2021 14:21:17</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401916 GHz	1.23 dBm			M2	1		2.4 GHz	-55.44 dBm			M3	1		2.39 GHz	-62.62 dBm			M4	1		2.31 GHz	-63.26 dBm			M5	1		2.399965 GHz	-55.85 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401916 GHz	1.23 dBm																																									
M2	1		2.4 GHz	-55.44 dBm																																									
M3	1		2.39 GHz	-62.62 dBm																																									
M4	1		2.31 GHz	-63.26 dBm																																									
M5	1		2.399965 GHz	-55.85 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="683 1182 1337 1303"> <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>2.403814 GHz</td> <td>4.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-58.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-59.05 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27.10.2021 15:59:07</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.403814 GHz	4.06 dBm			M2	1		2.4 GHz	-58.08 dBm			M3	1		2.39 GHz	-63.59 dBm			M4	1		2.31 GHz	-64.20 dBm			M5	1		2.399965 GHz	-59.05 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.403814 GHz	4.06 dBm																																									
M2	1		2.4 GHz	-58.08 dBm																																									
M3	1		2.39 GHz	-63.59 dBm																																									
M4	1		2.31 GHz	-64.20 dBm																																									
M5	1		2.399965 GHz	-59.05 dBm																																									
<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="683 1742 1337 1850"> <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>2.479967 GHz</td> <td>2.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-59.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.00 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.48394 GHz</td> <td>-59.69 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27.10.2021 14:33:00</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479967 GHz	2.76 dBm			M2	1		2.4835 GHz	-59.71 dBm			M3	1		2.5 GHz	-62.00 dBm			M4	1		2.48394 GHz	-59.69 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479967 GHz	2.76 dBm																																									
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M3	1		2.5 GHz	-62.00 dBm																																									
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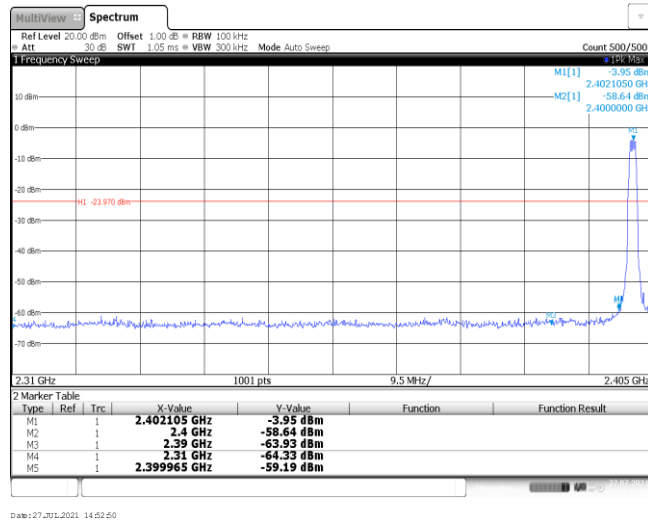
CH78  
Hopping mode



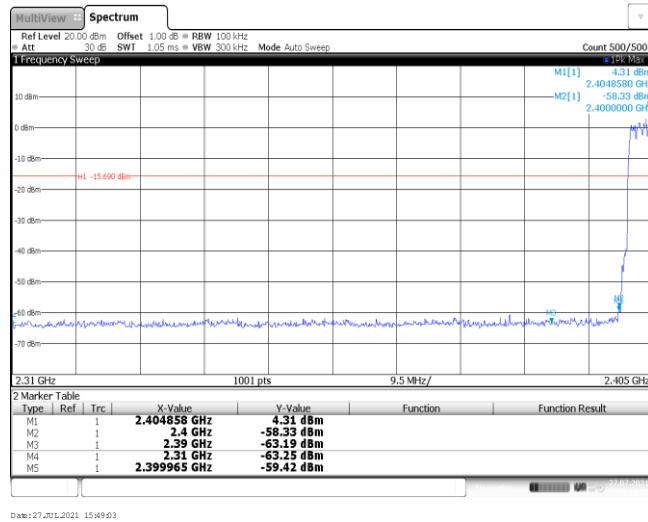
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<b>Test Item:</b>	<b>Band edge</b>	<b>Modulation type:</b>	<b>8DPSK</b>
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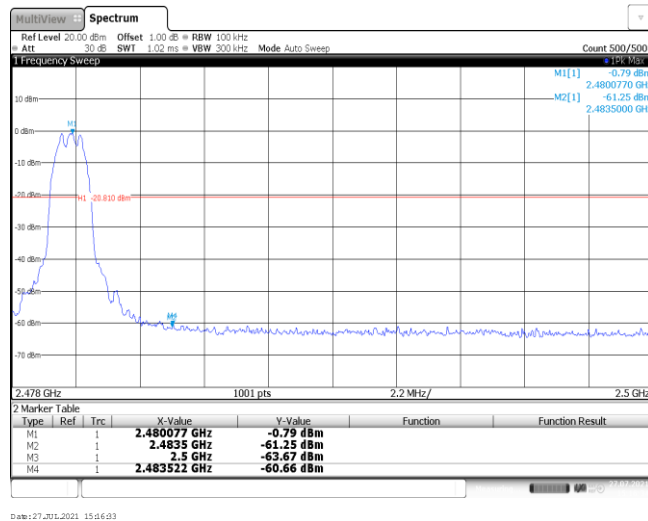
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No hopping mode



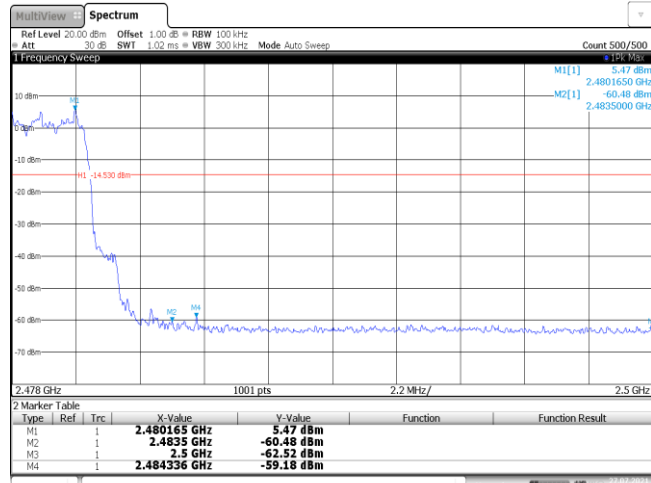
CH00  
Hopping mode



CH78  
No hopping mode

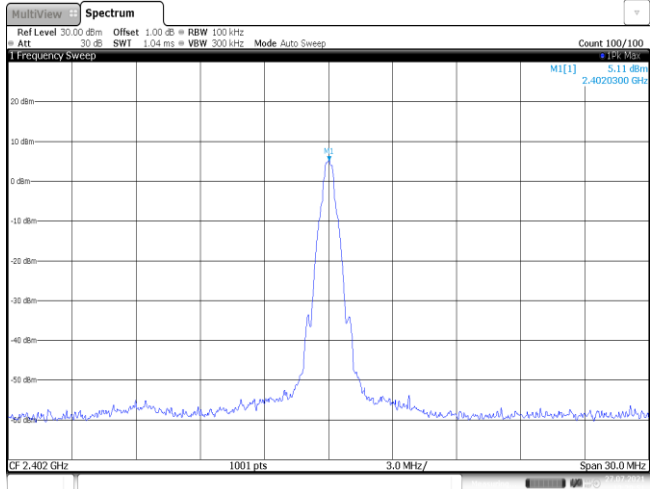
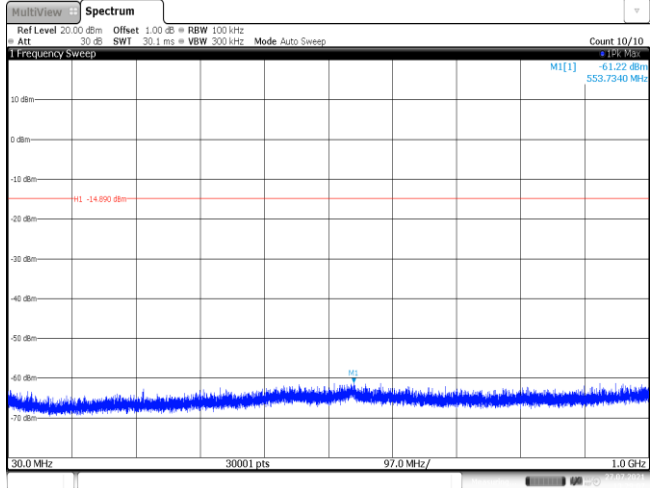
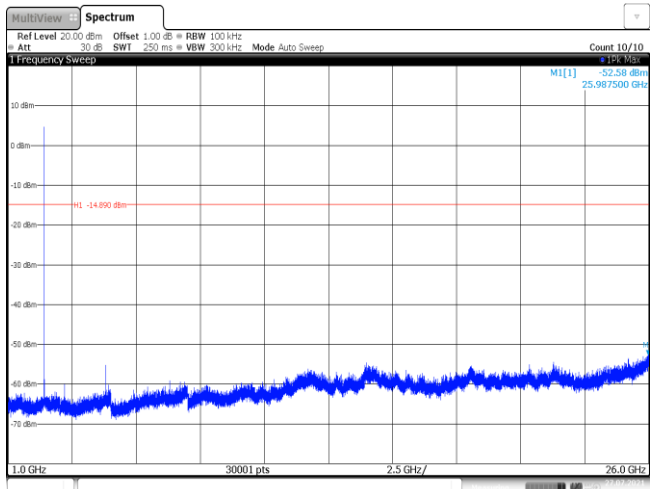


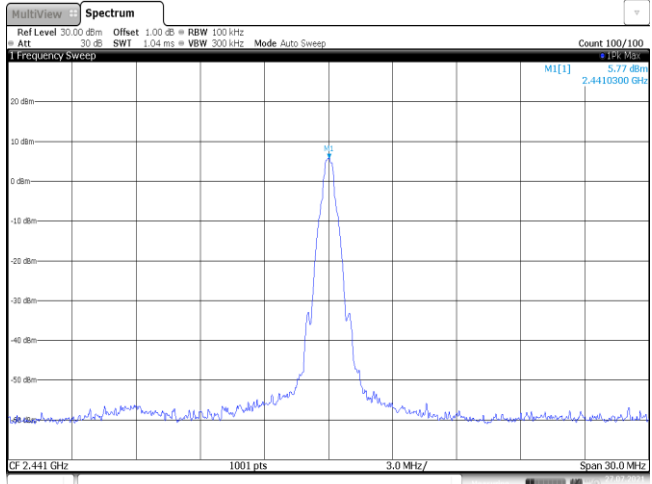
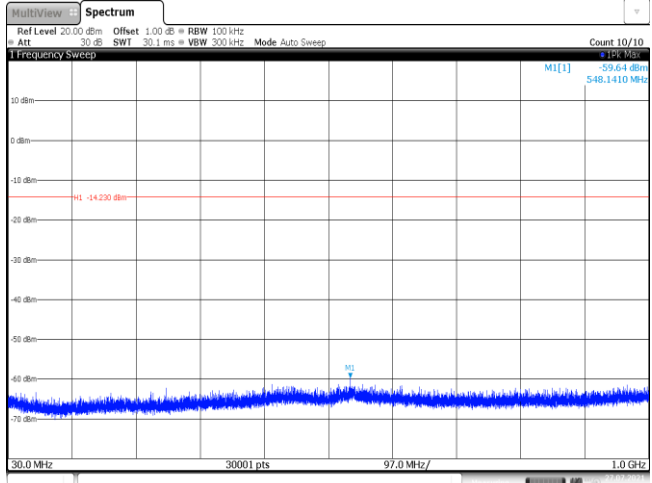
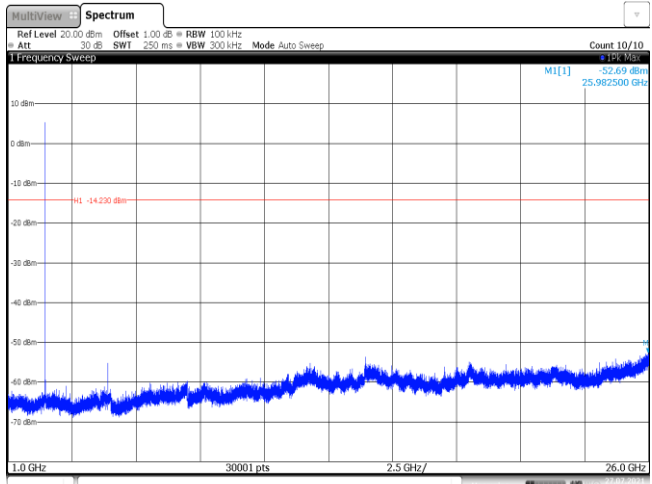
CH78  
Hoppig mode



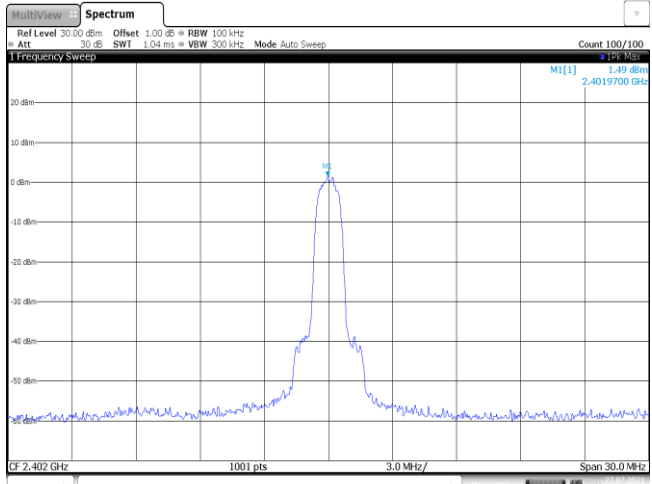
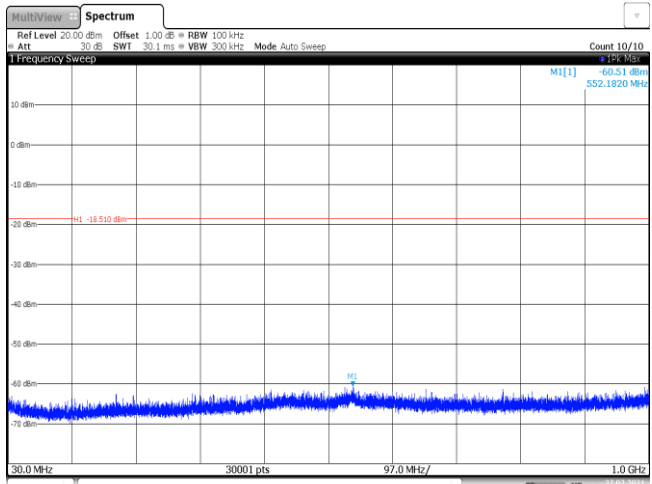
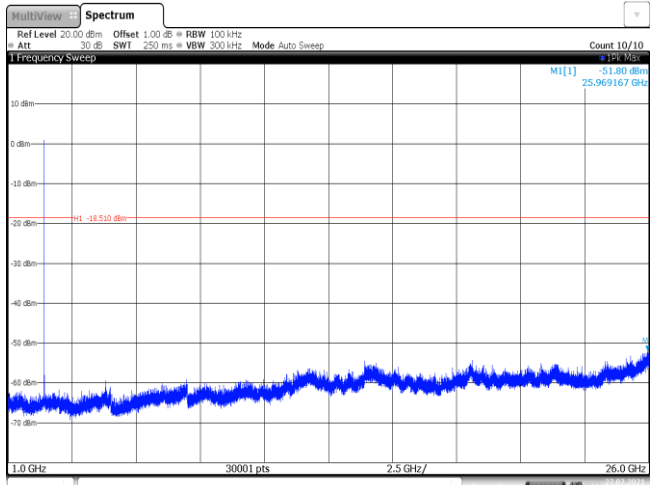
Date: 27\_JUL\_2021 15:49:28



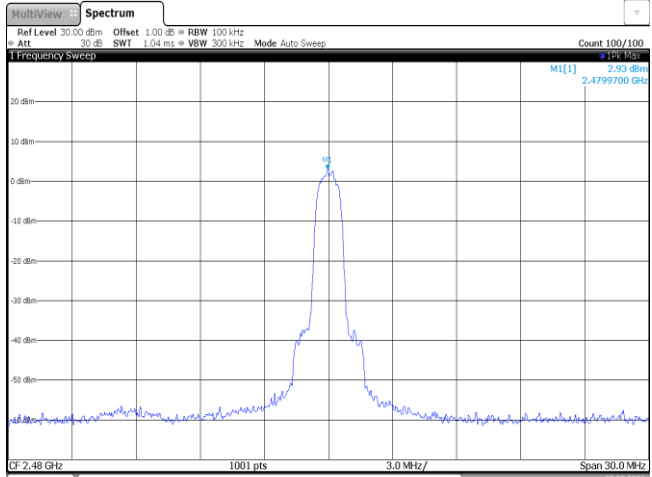
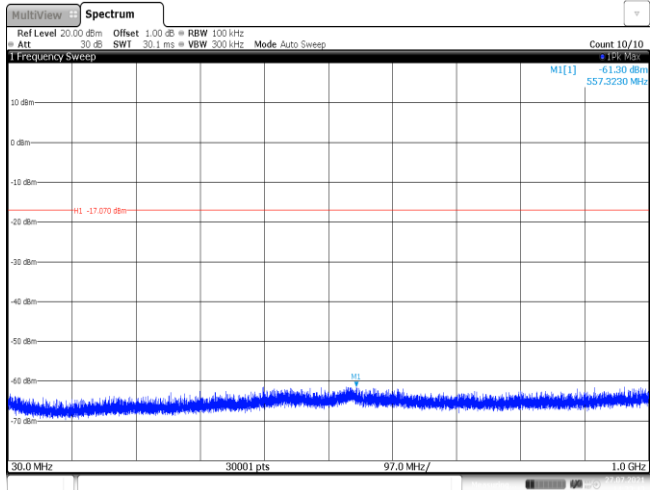
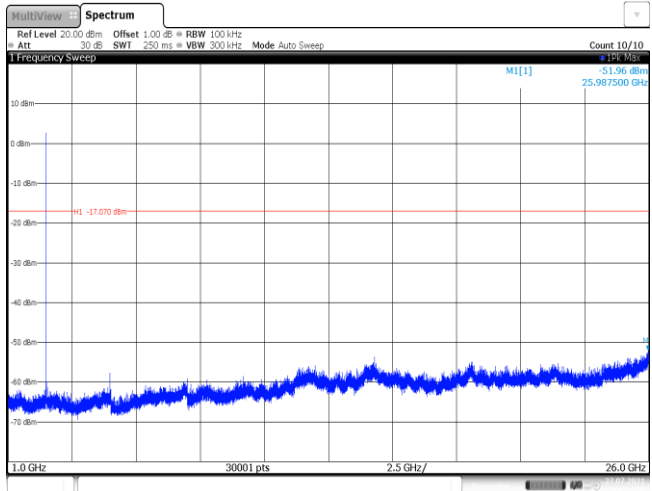
Test Item:	Spurious Emission	Modulation type:	GFSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 27_701_2021 13:29:07</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 27_701_2021 13:29:23</p>		

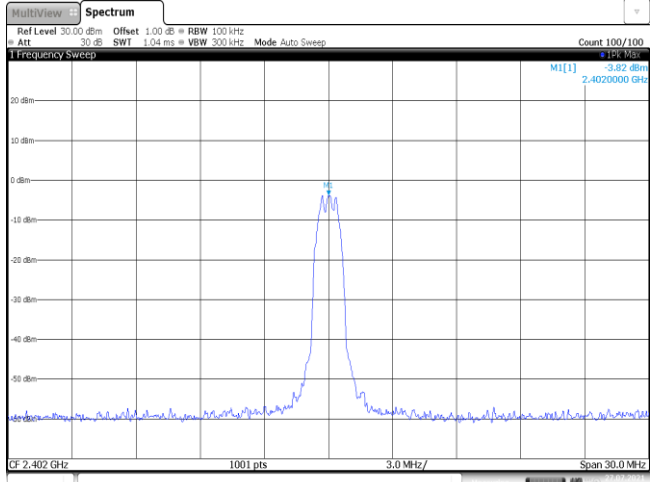
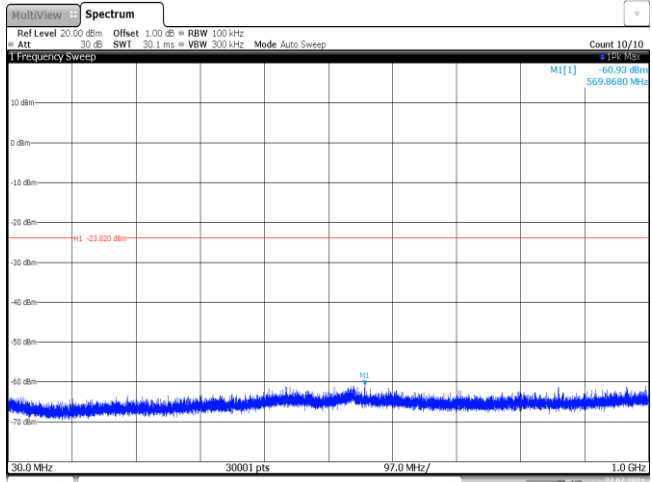
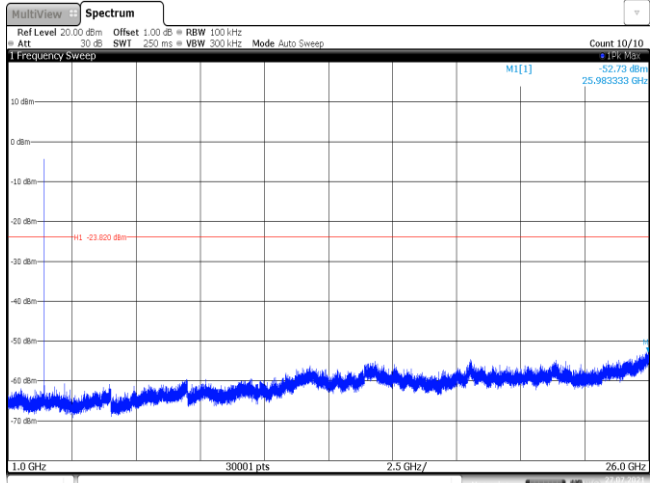
<p>CH39 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 5.77 dBm 2.4410300 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 Jul 2021 13:31:40</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -59.64 dBm 548.1410 MHz M1 -14.230 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 Jul 2021 13:31:57</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 M1[1] -52.69 dBm 25.982500 GHz M1 -14.230 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 Jul 2021 13:32:13</p>

<p>CH78 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 M1[1] 7.78 dBm 2.4800300 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 Jul 2021 14:07:12</p>
<p>CH78 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 M1[1] -61.04 dBm 551.8910 MHz M1 -12.220 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 Jul 2021 14:07:29</p>
<p>CH78 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 M1[1] -52.00 dBm 4.960000 GHz M1 -12.220 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 Jul 2021 14:07:45</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 MI[1] 1.49 dBm 2.4019700 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 Jul 2021 14:22:03</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 MI[1] -60.51 dBm 552.1820 MHz MI -18.510 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 Jul 2021 14:22:19</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 MI[1] -51.80 dBm 25.969167 GHz MI -18.510 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 Jul 2021 14:22:26</p>		

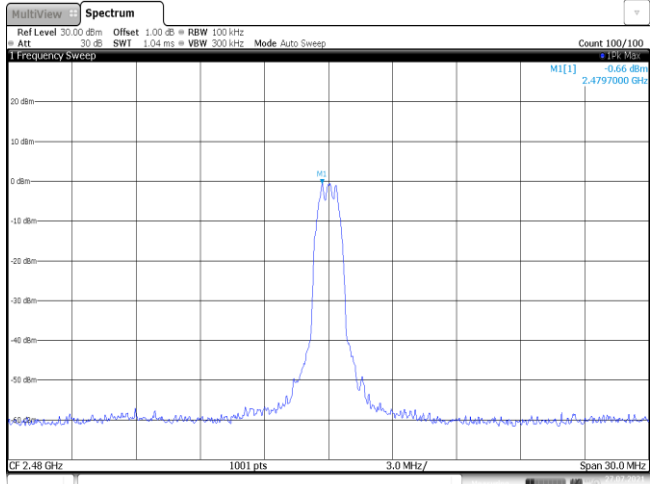
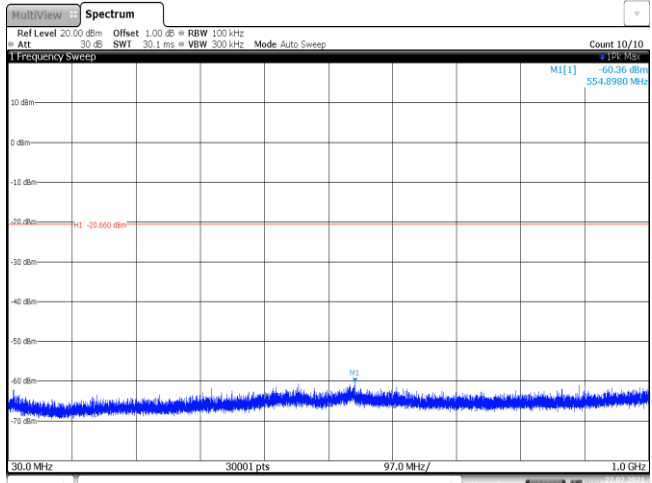
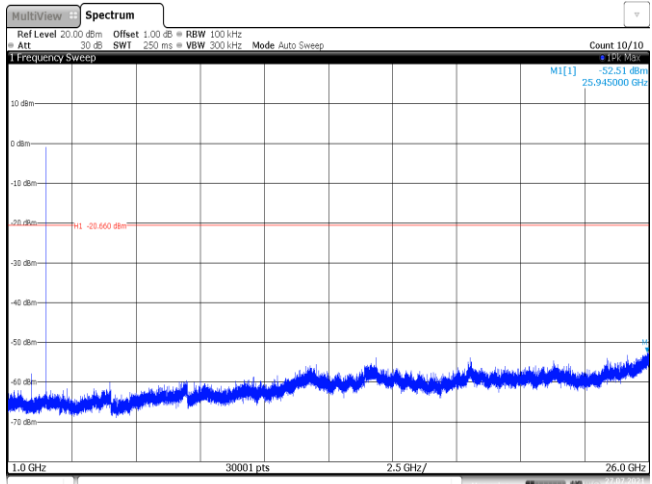
<p>CH39 Reference level</p>	<p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 2.23 dBm 2.4409700 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 Jul 2021 14:28:49</p>
<p>CH39 30MHz~1000MHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.70 dBm 553.3460 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 Jul 2021 14:28:25</p>
<p>CH39 1GHz~26GHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.76 dBm 25.990833 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 Jul 2021 14:28:42</p>

<p>CH78 Reference level</p>	 <p>MultiView Spectrum          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          1 Frequency Sweep          MI[1] 2.93 dBm          2.4799700 GHz          CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 27 Jul 2021 14:33:27</p>
<p>CH78 30MHz~1000MHz</p>	 <p>MultiView Spectrum          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          1 Frequency Sweep          MI[1] -61.50 dBm          557.3230 MHz          -17.070 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 27 Jul 2021 14:33:43</p>
<p>CH78 1GHz~26GHz</p>	 <p>MultiView Spectrum          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          1 Frequency Sweep          MI[1] -51.96 dBm          25.987500 GHz          -17.070 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 27 Jul 2021 14:34:20</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 SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -3.82 dBm 2.4020000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27_JUL_2021 14:52:56</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 -60.93 dBm 569.8680 MHz M1 -23.820 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27_JUL_2021 14:53:12</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 -52.73 dBm 25.983333 GHz M1 -23.820 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27_JUL_2021 14:53:29</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 M1[1] -2.91 dBm 2.4410000 GHz</p> <p>CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 27 Jul 2021 15:10:20</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 M1[1] -61.00 dBm 554.4450 MHz</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 27 Jul 2021 15:10:37</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 M1[1] -51.98 dBm 25.977500 GHz</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 27 Jul 2021 15:10:53</p>



<p>CH78 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] -0.66 dBm 2.4797000 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 Jul 2021 15:16:40</p>
<p>CH78 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] -60.36 dBm 554.8980 MHz H1 -20.660 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 Jul 2021 15:16:56</p>
<p>CH78 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] -52.51 dBm 25.945000 GHz H1 -20.660 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 Jul 2021 15:17:13</p>

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