

# APPENDIX REPORT

Project No.	SHT2107048003EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21070480016	Model No.	CT9F8A
Start test date	2021-07-19	Finish date	2021-07-19
Temperature	25.6°C	Humidity	38%
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

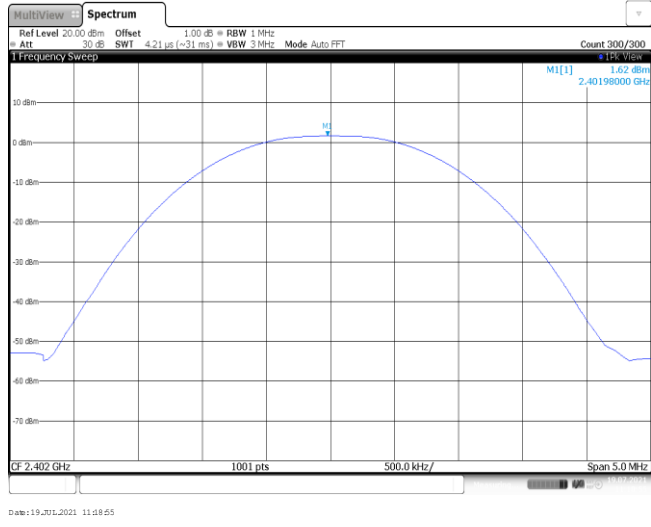
**Appendix A: Peak Output Power**

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	1.62	1.60	≤ 30.00	Pass
	39	4.08	4.07		
	78	3.33	3.32		
π/4DQPSK	00	1.19	1.14	≤ 21.00	Pass
	39	3.73	3.66		
	78	3.01	2.97		
8DPSK	00	1.36	1.31	≤ 21.00	Pass
	39	3.96	3.89		
	78	3.28	3.23		

Modulation Type:

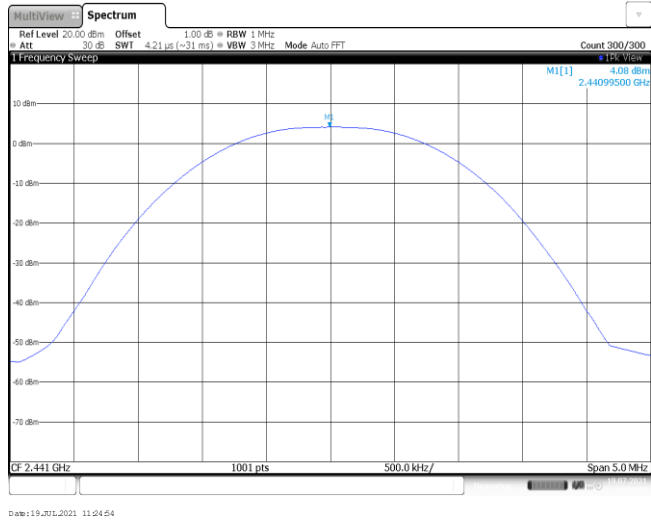
GFSK

CH00



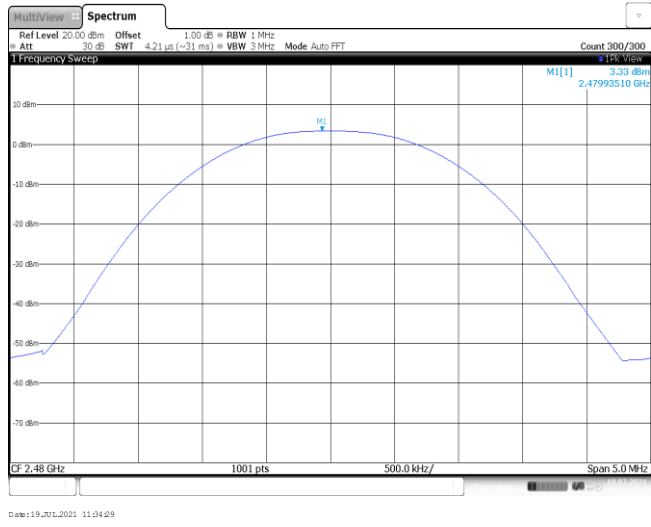
Date: 19.07.2021 11:18:55

CH39



Date: 19.07.2021 11:24:54

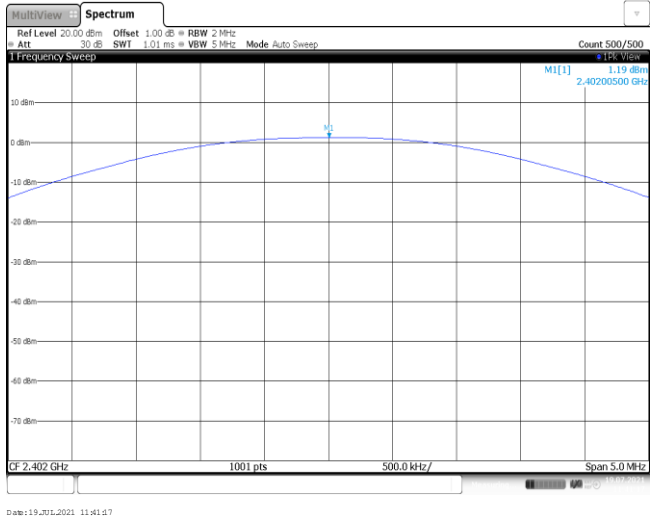
CH78



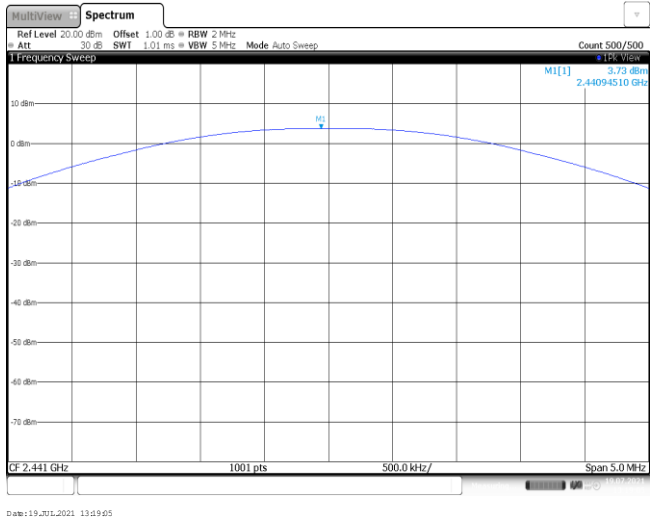
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**Modulation Type:**  $\pi/4$ DQPSK

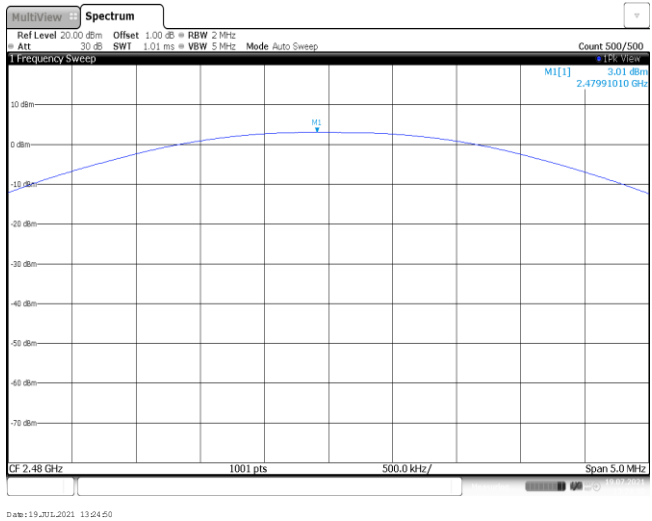
CH00



CH39

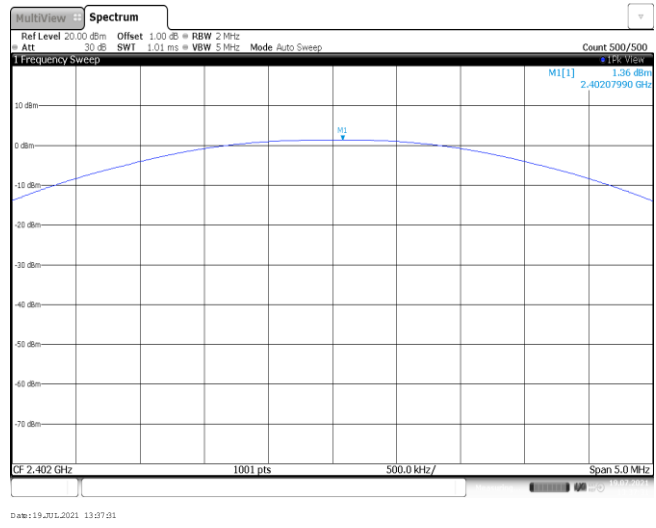


CH78

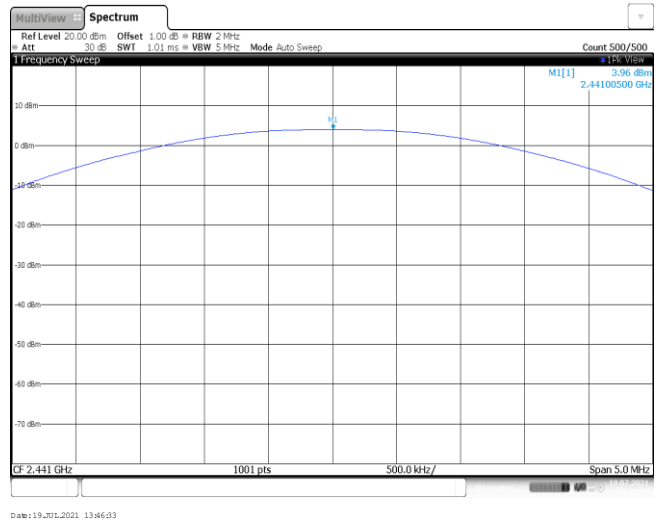


**Modulation Type: 8DPSK**

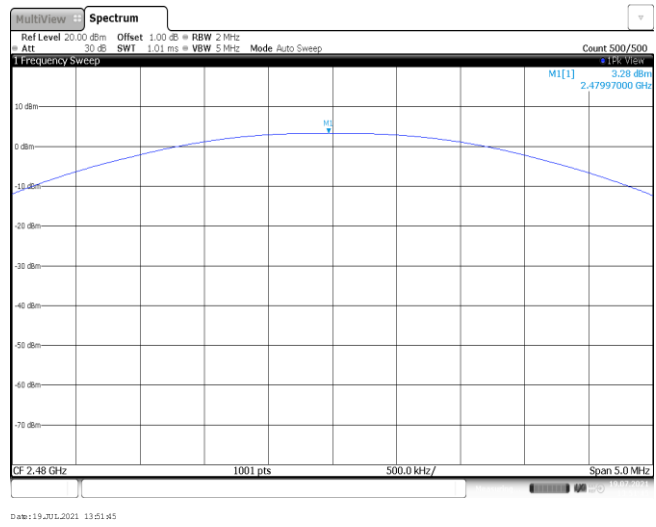
CH00



CH39



CH78

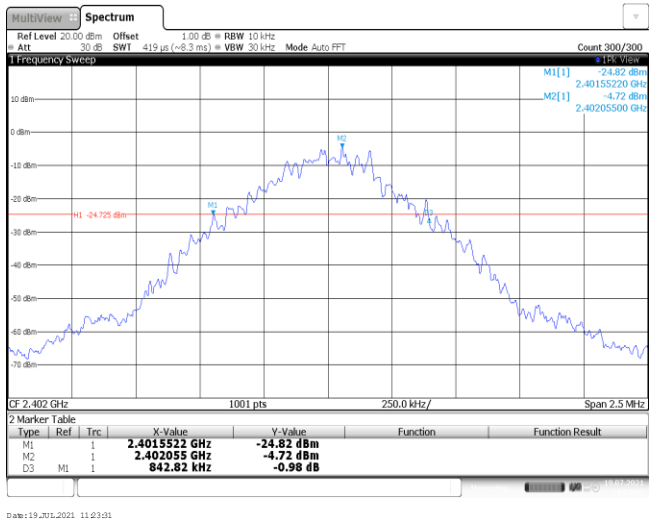


**Appendix B : 20 dB Bandwidth**

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	842.82	-	Pass
	39	839.98		
	78	842.82		
$\pi/4$ DQPSK	00	1277.50	-	Pass
	39	1275.00		
	78	1280.00		
8DPSK	00	1295.00	-	Pass
	39	1290.00		
	78	1275.00		

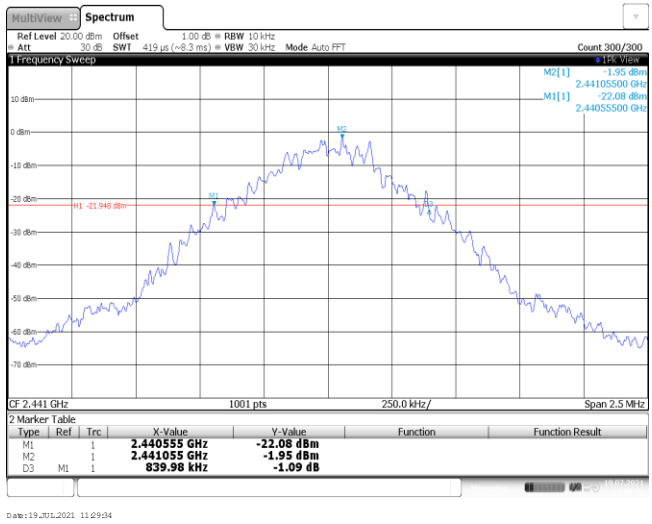
**Modulation Type: GFSK**

CH00



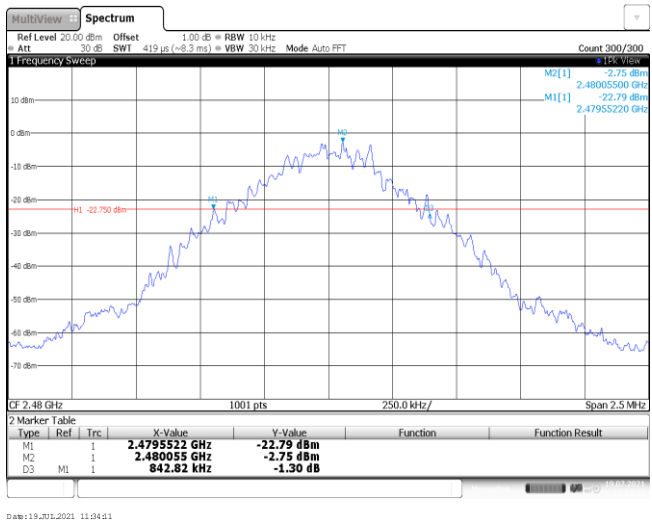
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CH39



Date: 19.01.2021 11:29:24

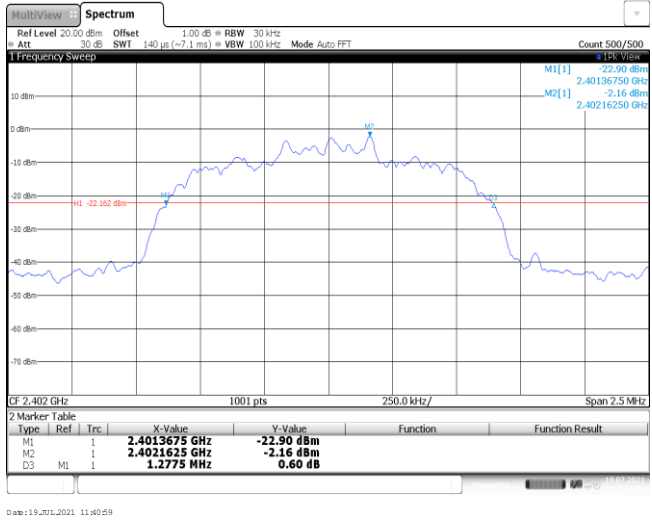
CH78



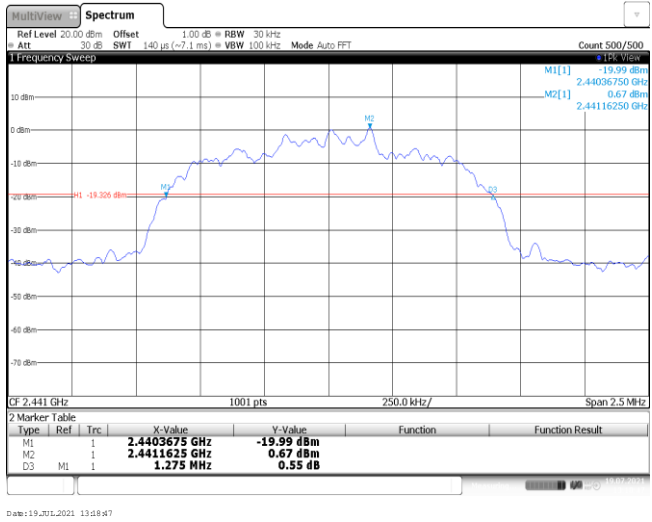
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**Modulation Type:**  **$\pi/4$ DQPSK**

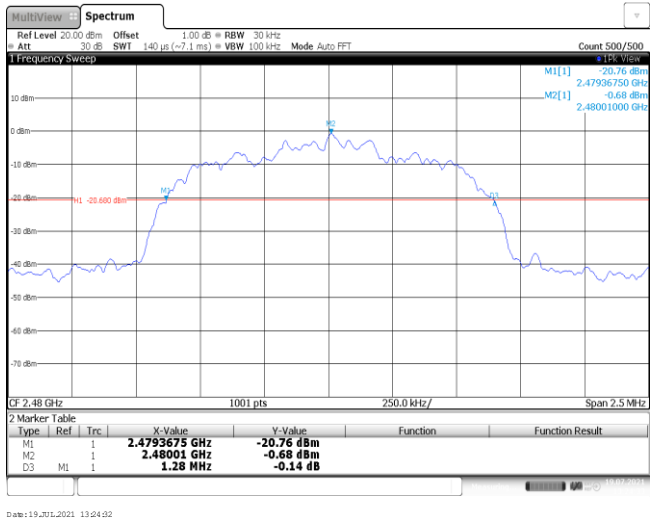
CH00



CH39



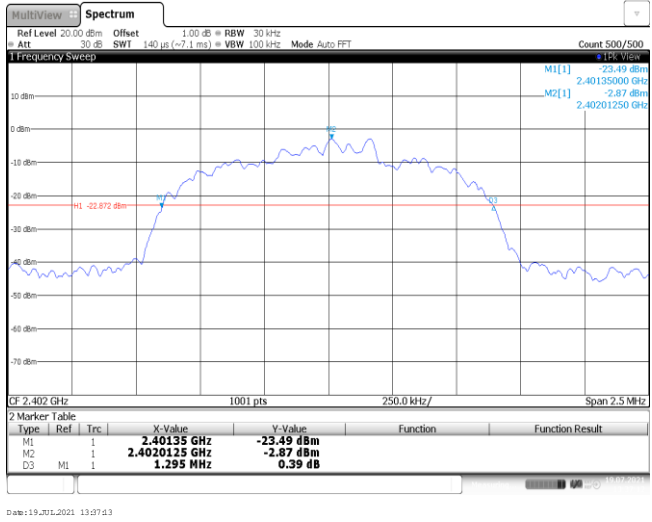
CH78



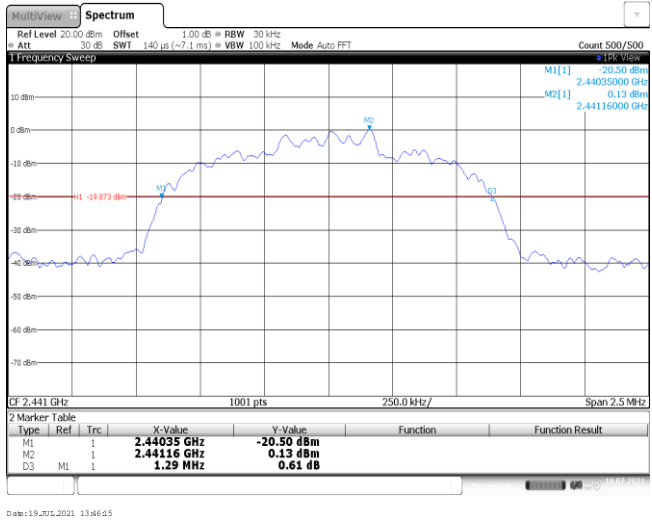


**Modulation Type: 8DPSK**

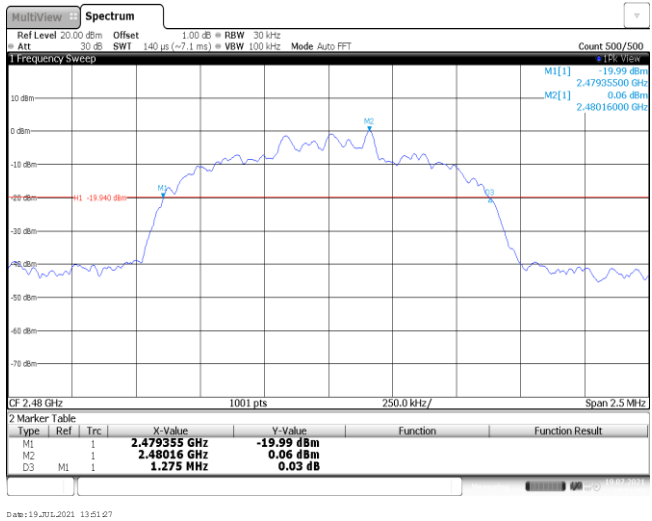
CH00



CH39



CH78

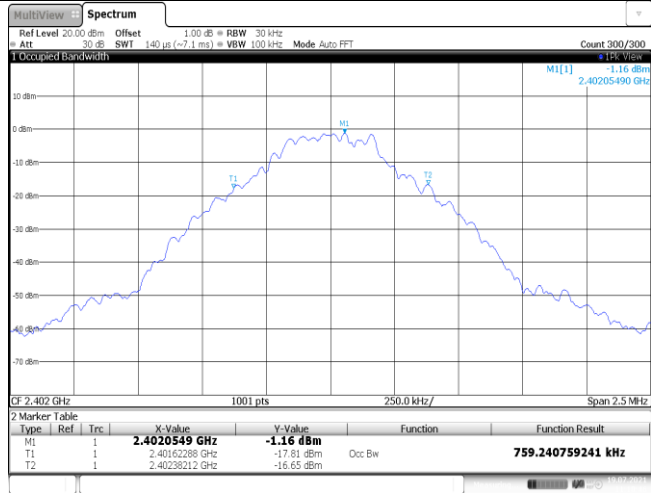


**Appendix C: 99% Occupied Bandwidth**

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.76	-	Pass
	39	0.76		
	78	0.76		
$\pi/4$ DQPSK	00	1.15	-	Pass
	39	1.16		
	78	1.16		
8DPSK	00	1.16	-	Pass
	39	1.16		
	78	1.16		

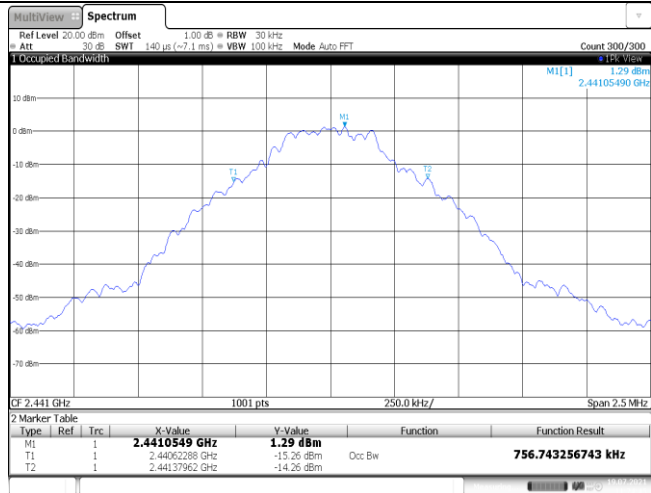
**Modulation Type: GFSK**

CH00



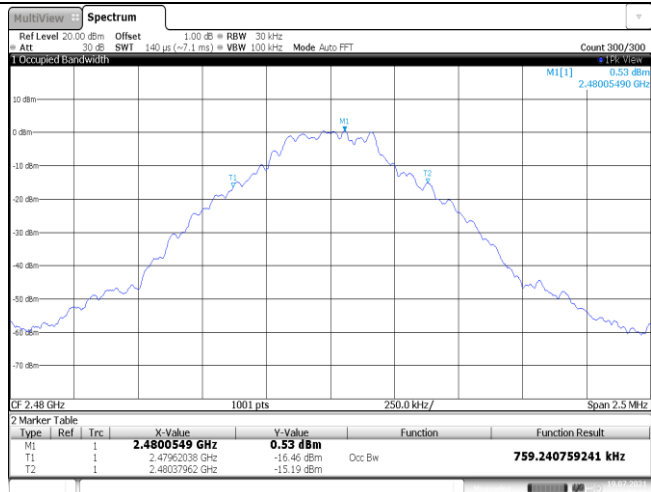
Date: 19\_03\_2021 11:18:46

CH39



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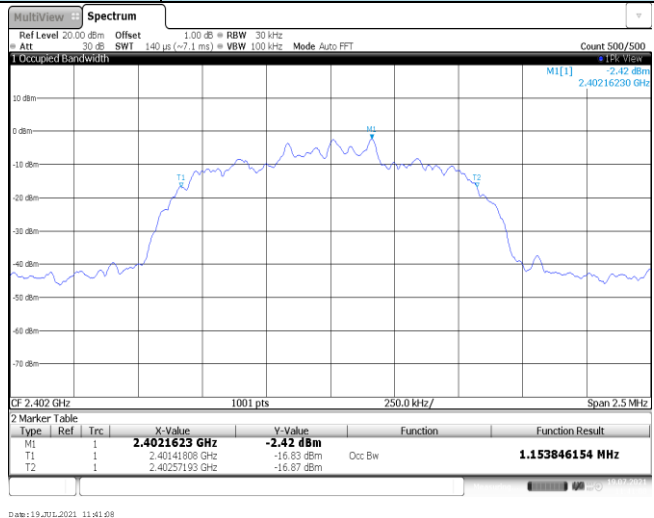
CH78



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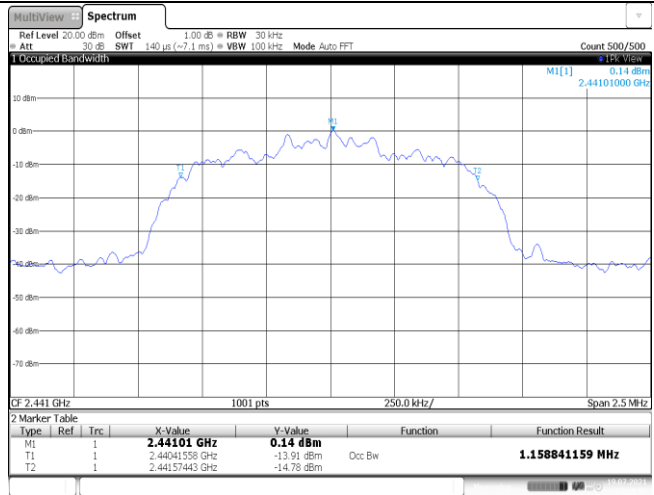
**Modulation Type:  $\pi/4$ DQPSK**

CH00



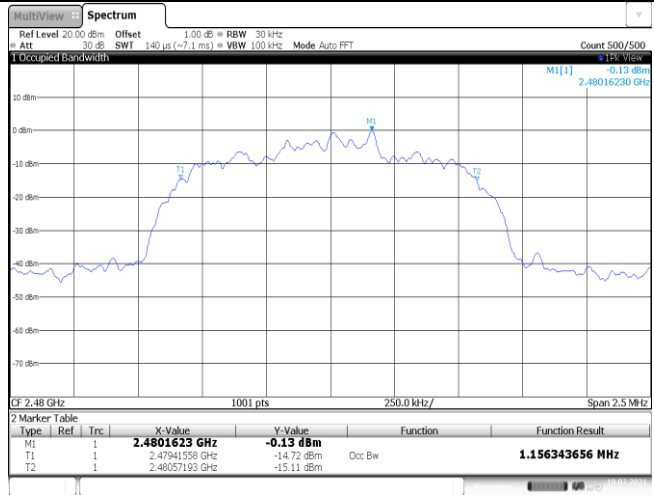
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CH39



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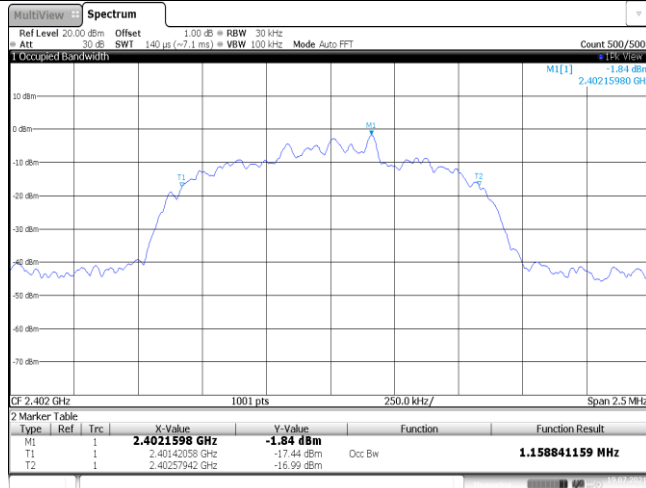
CH78



Date: 19\_01\_2021 13:24:41

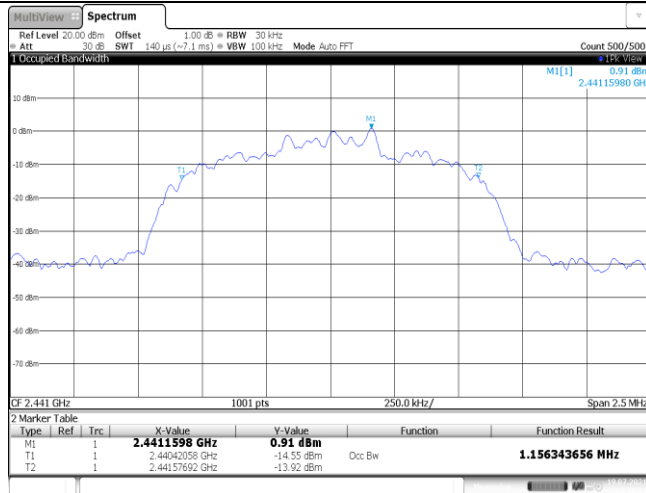
**Modulation Type: 8DPSK**

CH00



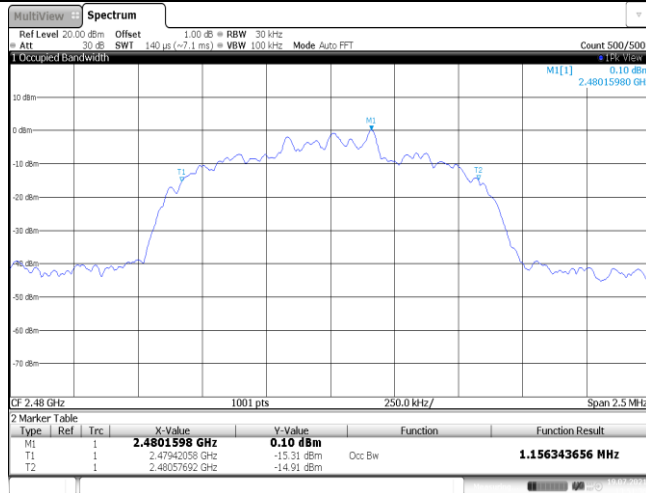
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CH39



Date: 19\_01\_2021 13:46:24

CH78



Date: 19\_01\_2021 13:51:36

**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥842.82	Pass
$\pi/4$ DQPSK	39	1.00	≥853.33	Pass
8DPSK	39	1.00	≥863.33	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

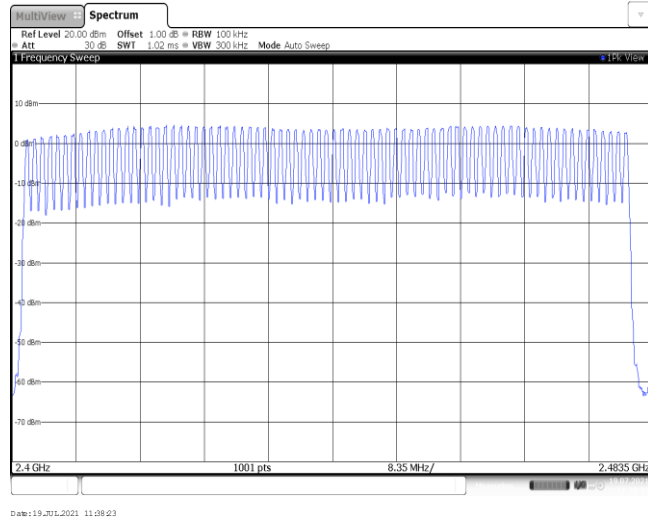
<p style="text-align: center;">GFSK</p>	
<p style="text-align: center;"><math>\pi/4</math>DQPSK</p>	
<p style="text-align: center;">8DPSK</p>	

**Appendix E: Hopping Channel Number**

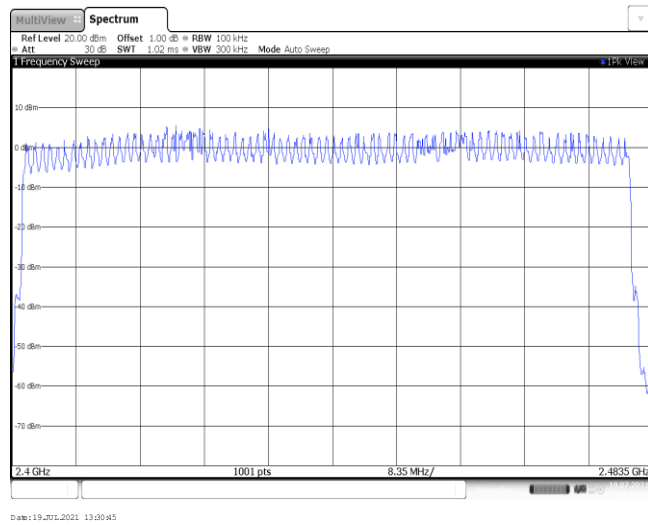
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



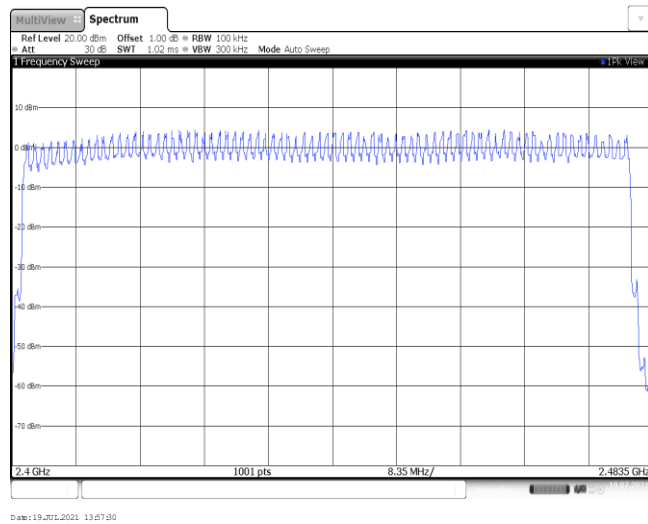
GFSK



$\pi/4$ DQPSK



8DPSK

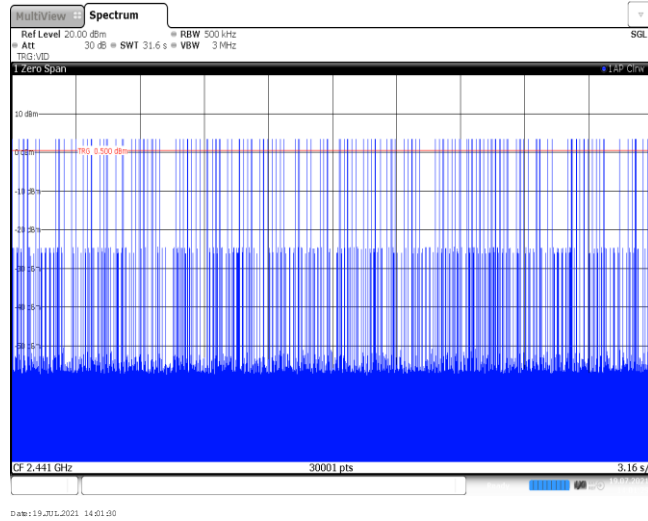


**Appendix F: Dwell Time**

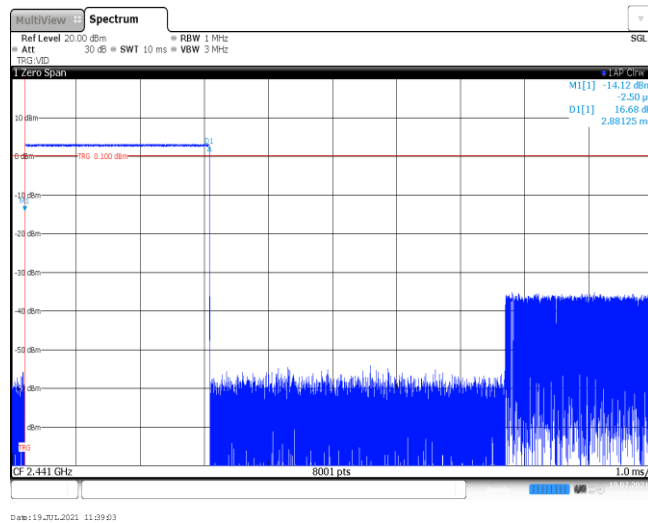
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	311	0.12	≤ 0.40	Pass
	DH3	1.63	158	0.26		
	DH5	2.88	111	0.32		
π/4DQPSK	2DH1	0.38	317	0.12	≤ 0.40	Pass
	2DH3	1.64	160	0.26		
	2DH5	2.88	114	0.33		
8DPSK	3DH1	0.39	314	0.12	≤ 0.40	Pass
	3DH3	1.64	159	0.26		
	3DH5	2.89	104	0.30		

Modulation Type: GFSK	
DH1 Burst width	
DH1 Burst number	
DH3 Burst width	

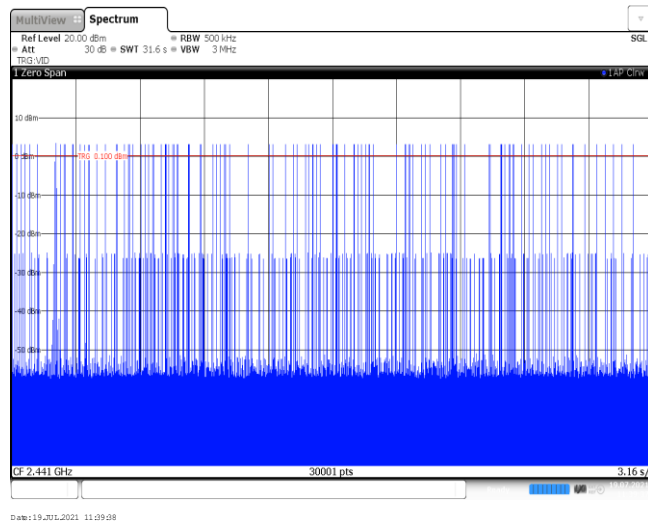
DH3  
Burst number



DH5  
Burst width

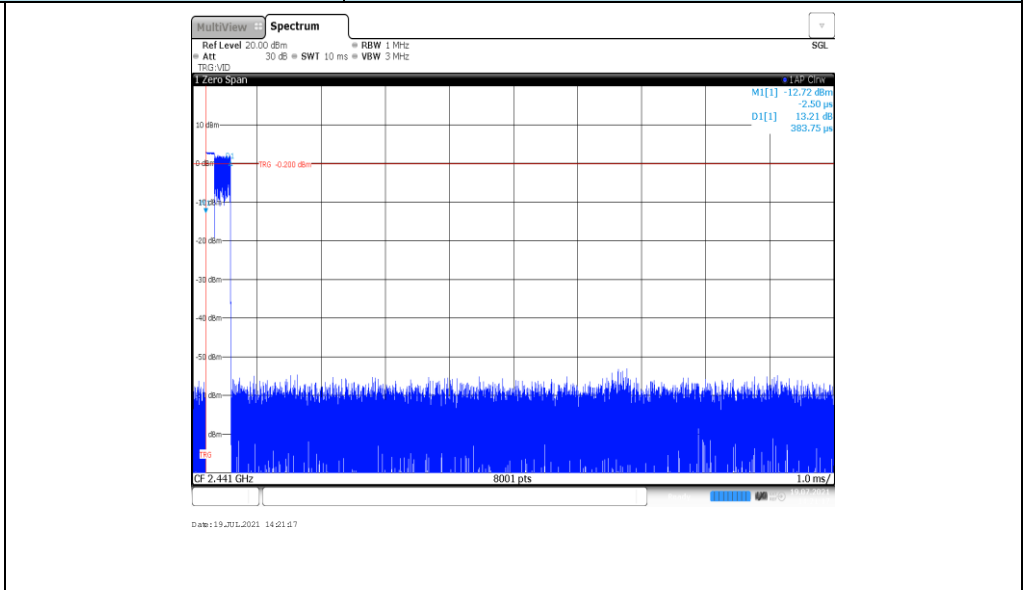


DH5  
Burst number

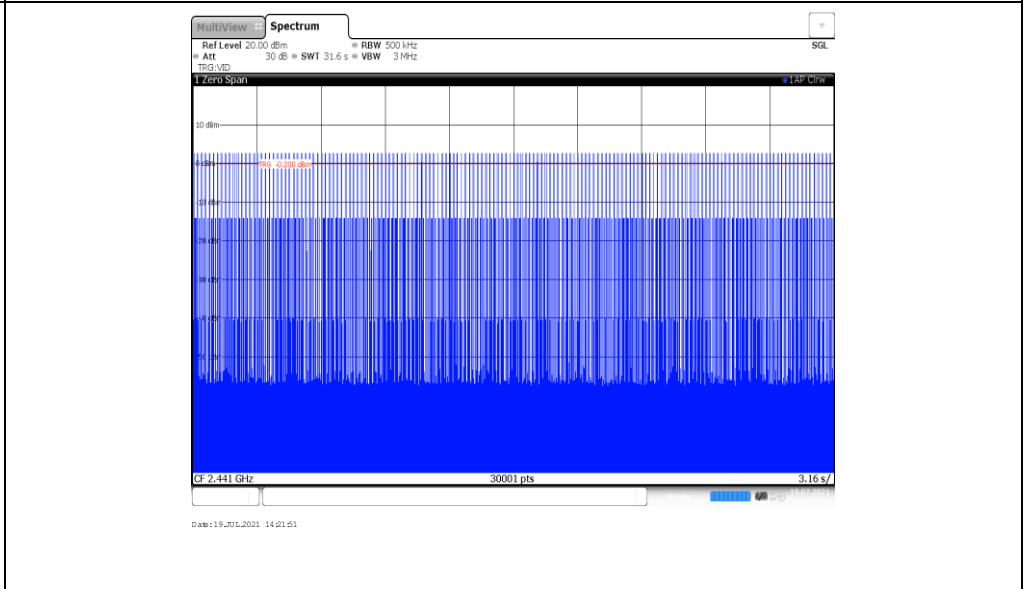


**Modulation Type:**  $\pi/4$ DQPSK

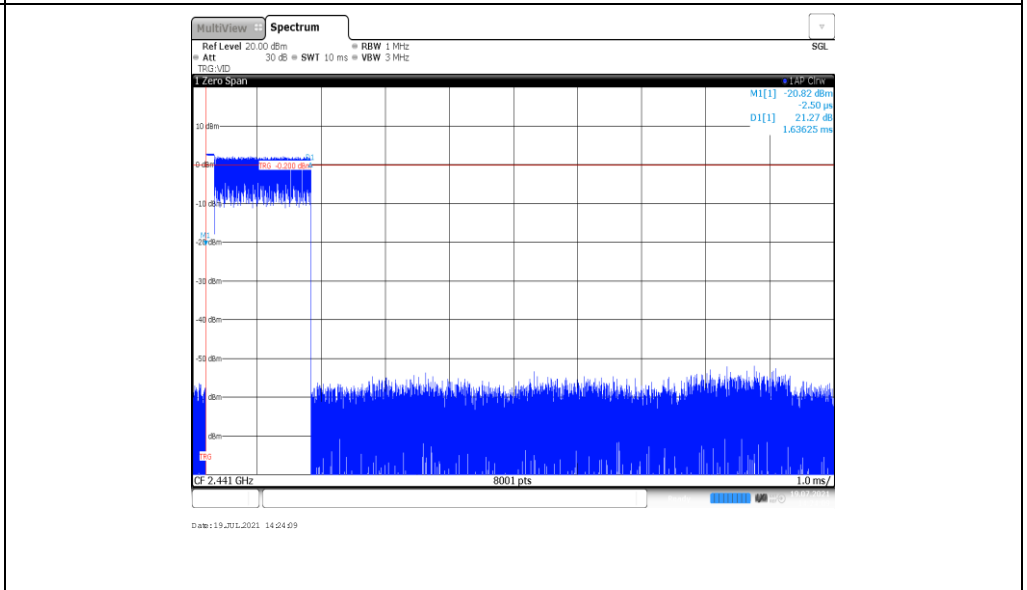
2DH1  
Burst width



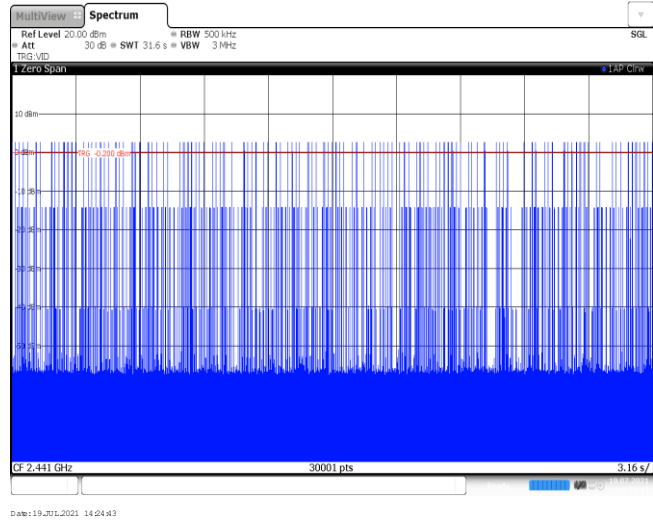
2DH1  
Burst number



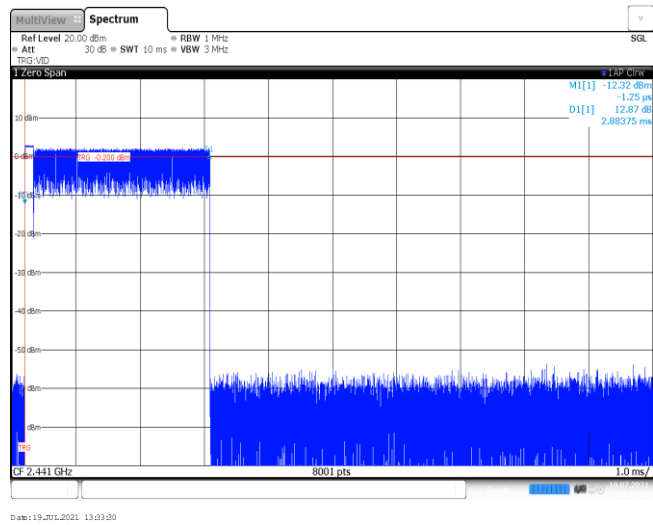
2DH3  
Burst width



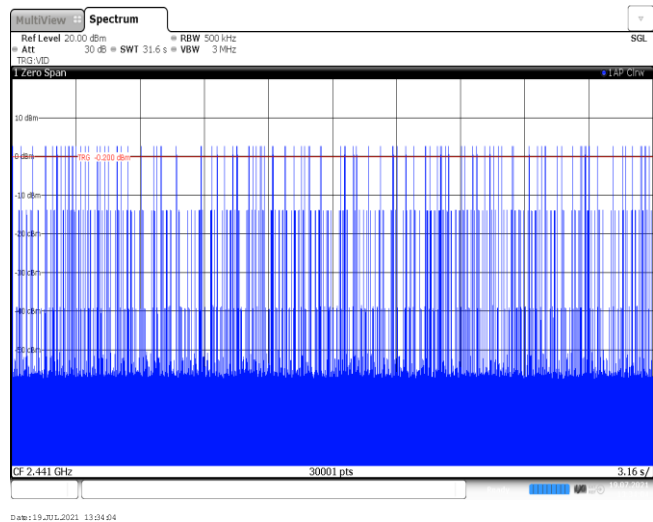
2DH3  
Burst number



2DH5  
Burst width

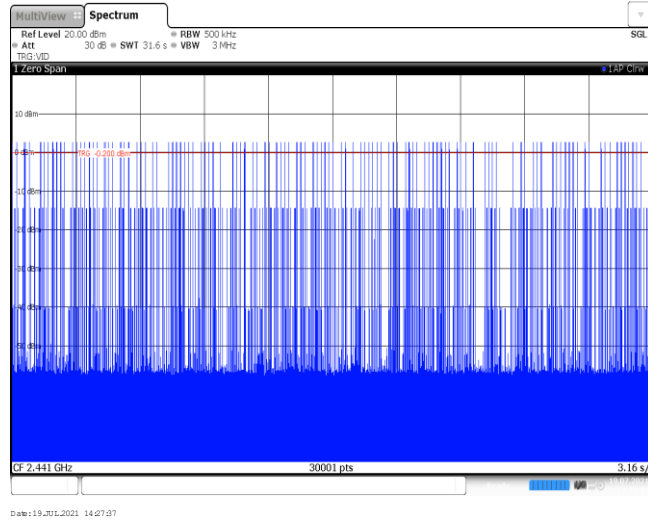


2DH5  
Burst number

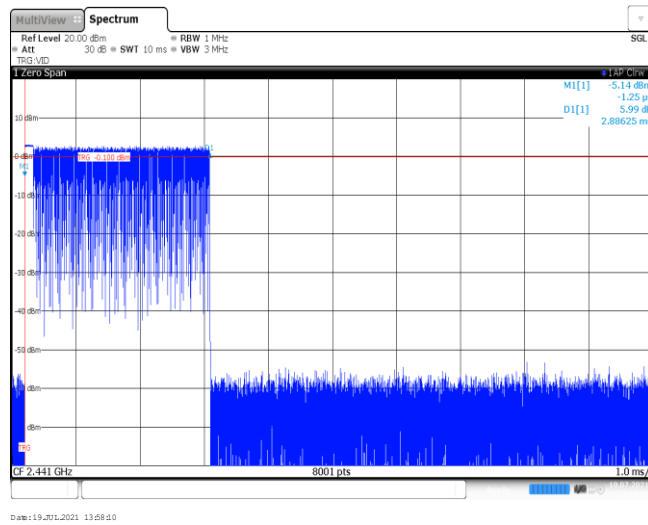


Modulation Type: 8DPSK	
3DH1 Burst width	<p>Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M1[1] -16.40 dBm D1[1] 17.04 dB 385.00 ps</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 19.01.2021 14:25:23</p>
3DH1 Burst number	<p>Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 19.01.2021 14:25:57</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] -5.38 dBm D1[1] 5.93 dB 1.63500 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 19.01.2021 14:27:03</p>

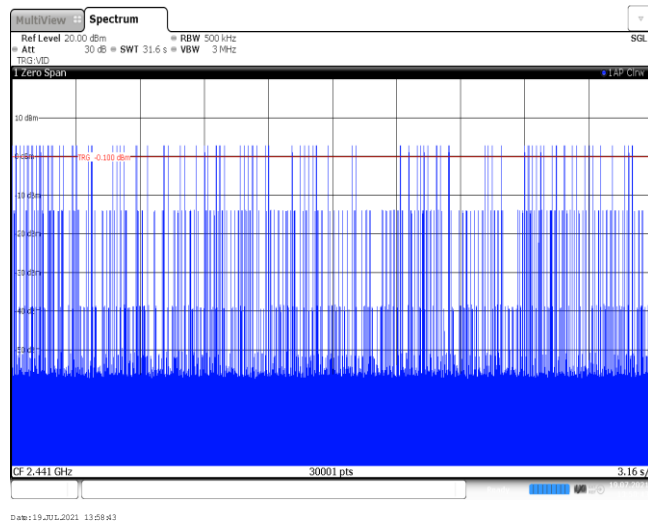
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

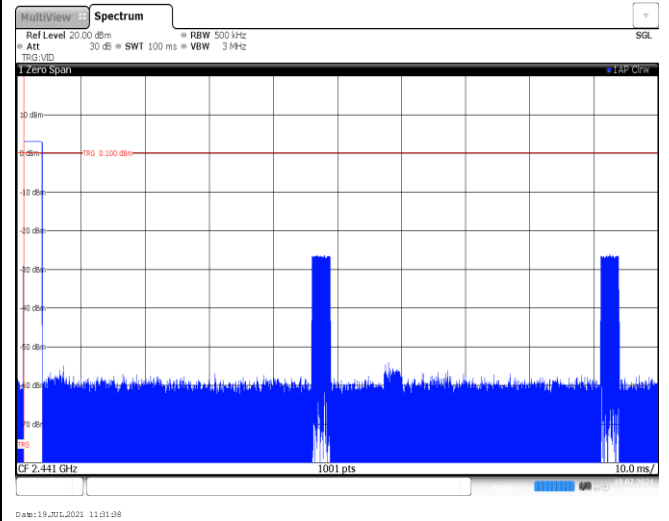
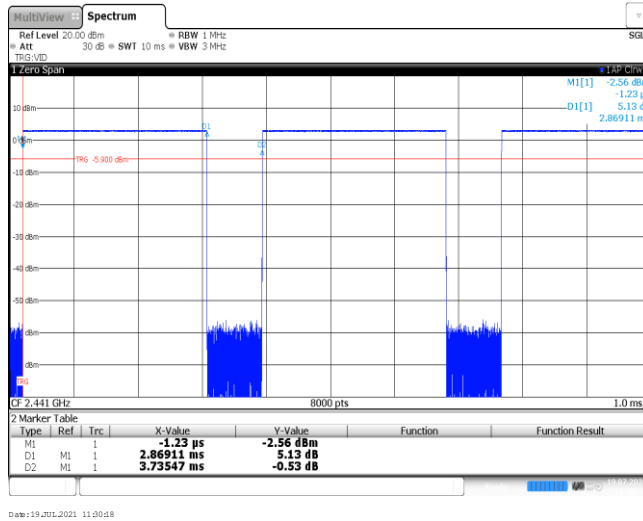




**Appendix G: Duty Cycle Correction Factor (DCCF)**

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	2.87	100	3	-21.30
$\pi/4$ DQPSK	2441	2.87	100	2	-24.82
8DPSK	2441	2.87	100	1	-30.84

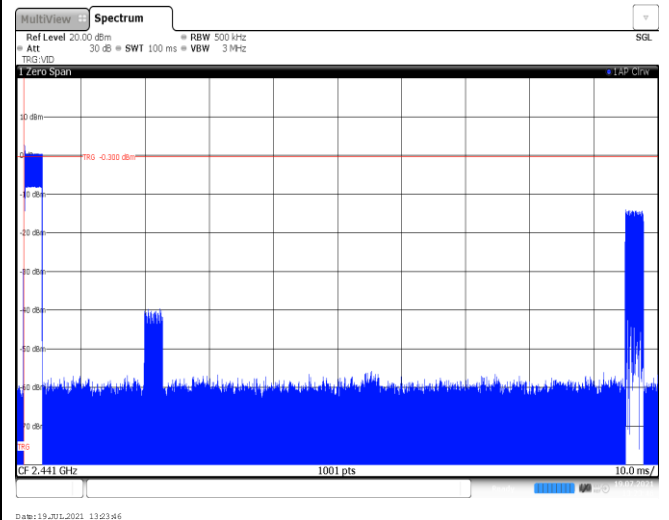
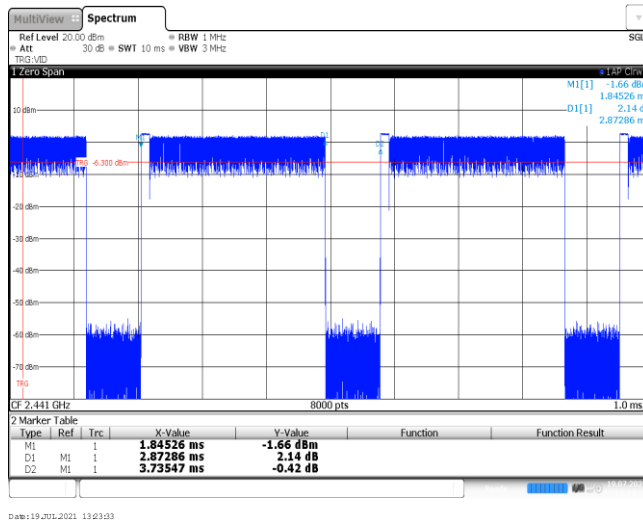
GFSK



Ton time for single burst

Burst Quantity

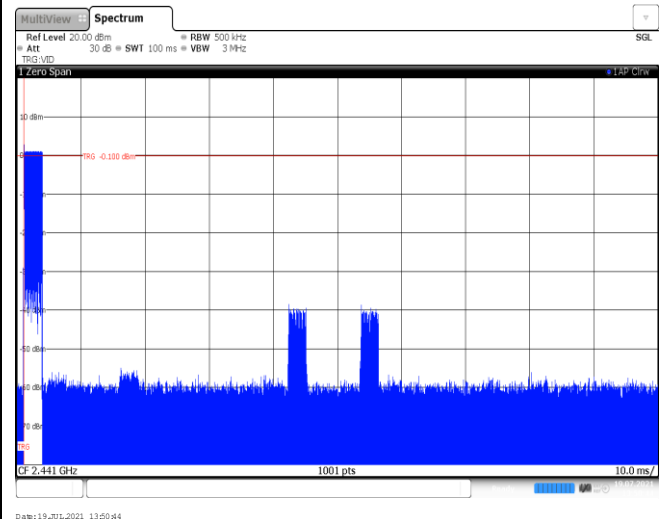
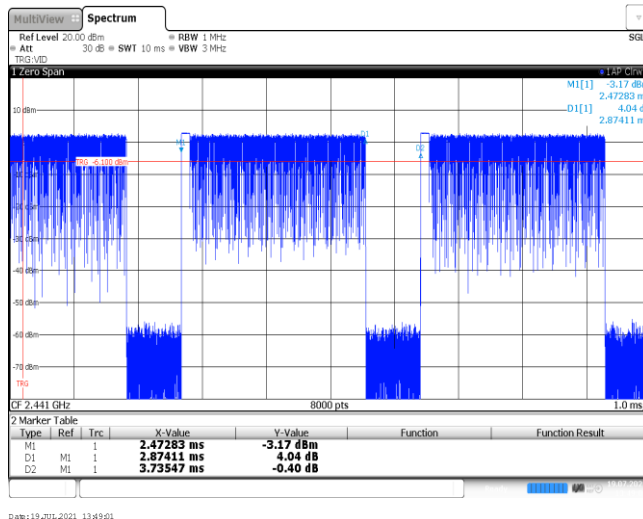
$\pi/4$  DQPSK



Ton time for single burst

Burst Quantity

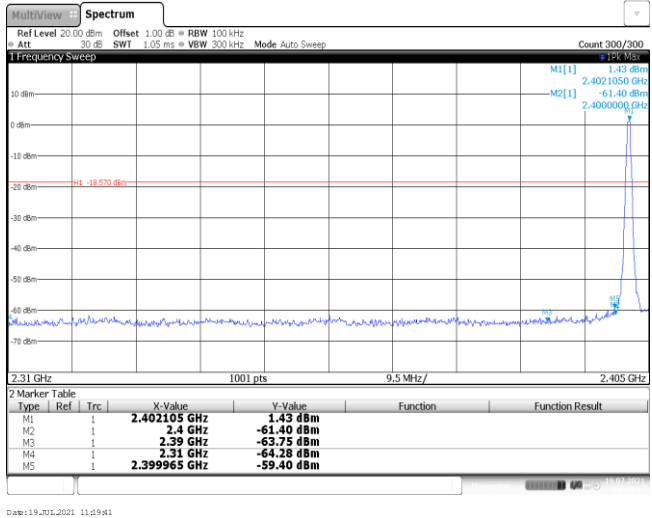
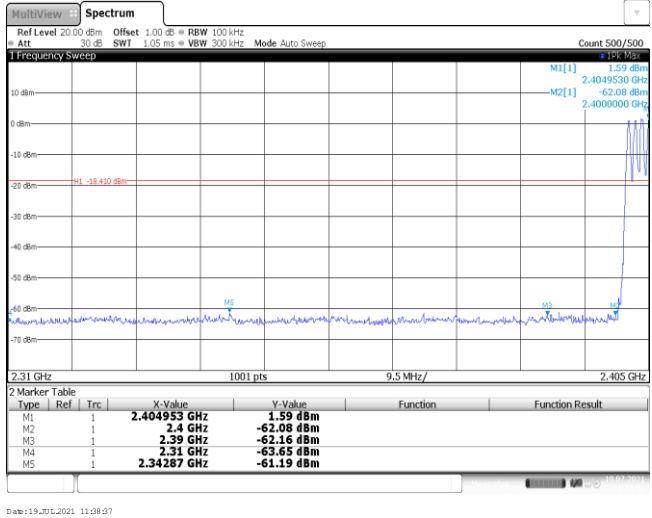
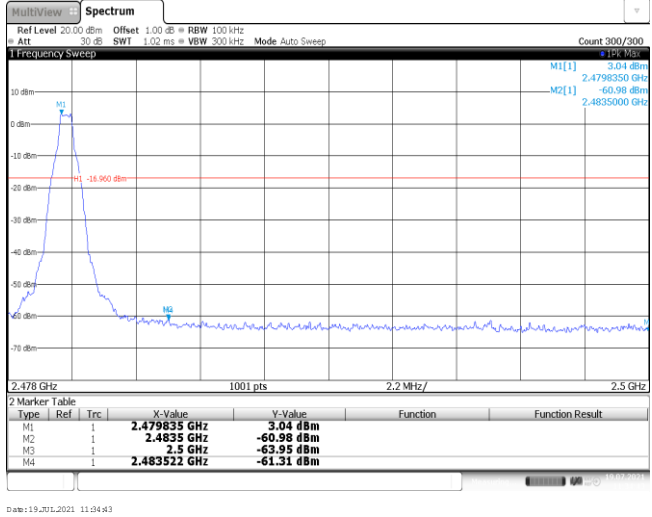
8DPSK



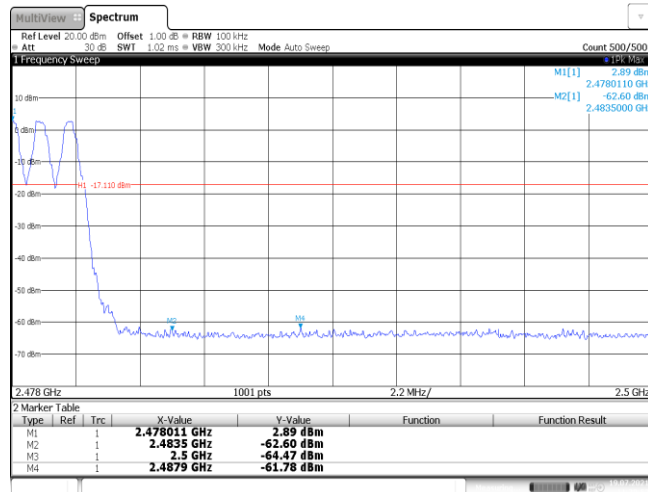
Ton time for single burst

Burst Quantity

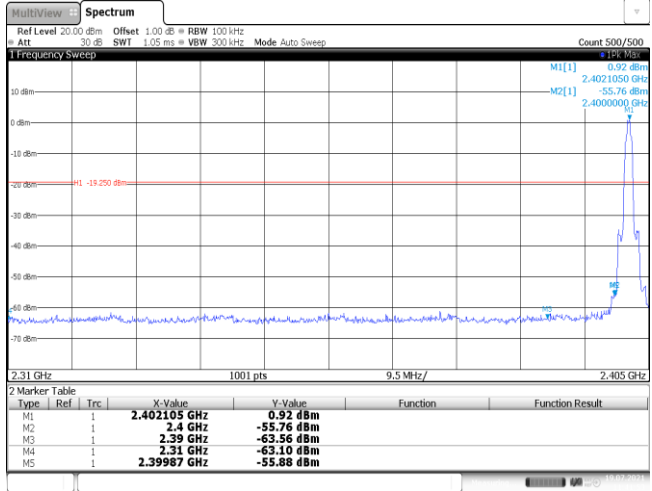
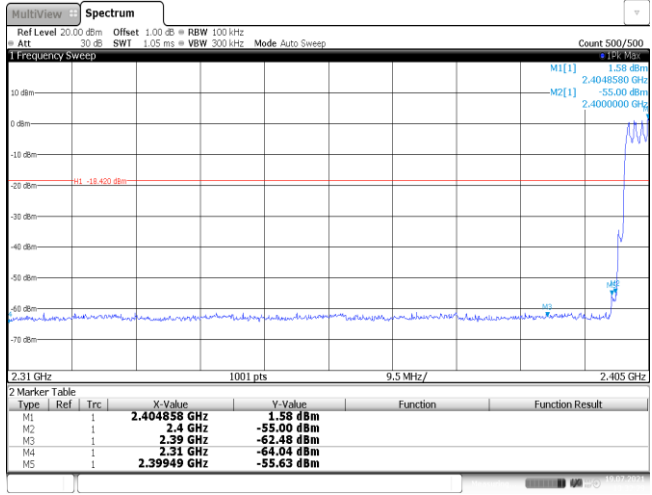
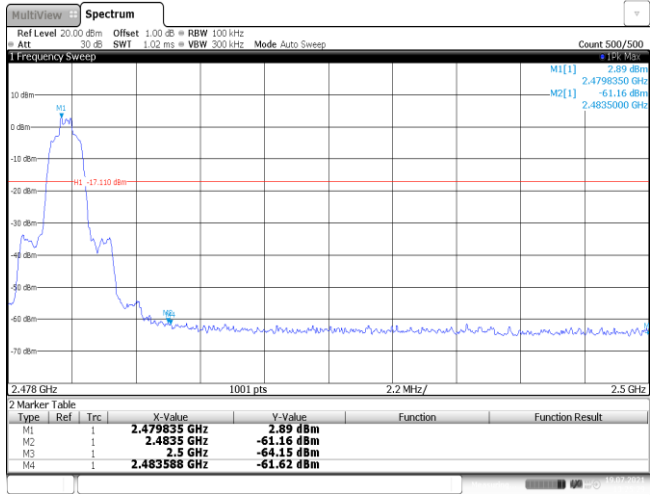
### Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <p>2 Marker Table</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>2.402105 GHz</td> <td>1.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-61.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-59.40 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19.01.2021 11:19:41</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	1.43 dBm			M2	1		2.4 GHz	-61.40 dBm			M3	1		2.39 GHz	-63.75 dBm			M4	1		2.31 GHz	-64.28 dBm			M5	1		2.399965 GHz	-59.40 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	1.43 dBm																																									
M2	1		2.4 GHz	-61.40 dBm																																									
M3	1		2.39 GHz	-63.75 dBm																																									
M4	1		2.31 GHz	-64.28 dBm																																									
M5	1		2.399965 GHz	-59.40 dBm																																									
<p>CH00 Hopping mode</p>	 <p>2 Marker Table</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>2.404953 GHz</td> <td>1.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-62.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.34287 GHz</td> <td>-61.19 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19.01.2021 11:38:37</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404953 GHz	1.59 dBm			M2	1		2.4 GHz	-62.08 dBm			M3	1		2.39 GHz	-62.16 dBm			M4	1		2.31 GHz	-63.65 dBm			M5	1		2.34287 GHz	-61.19 dBm		
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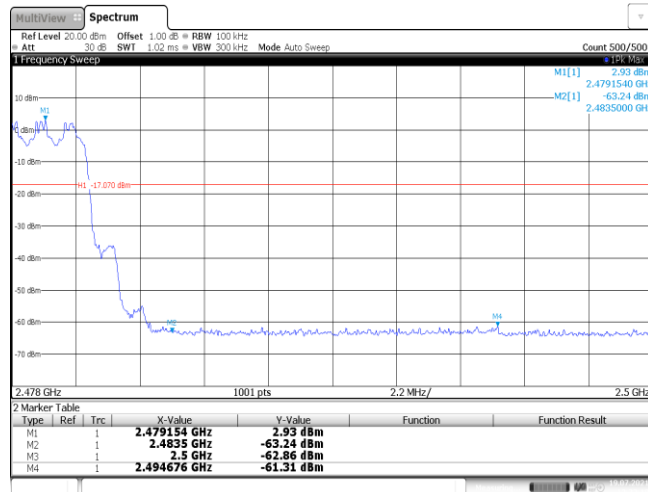
CH78  
Hopping mode



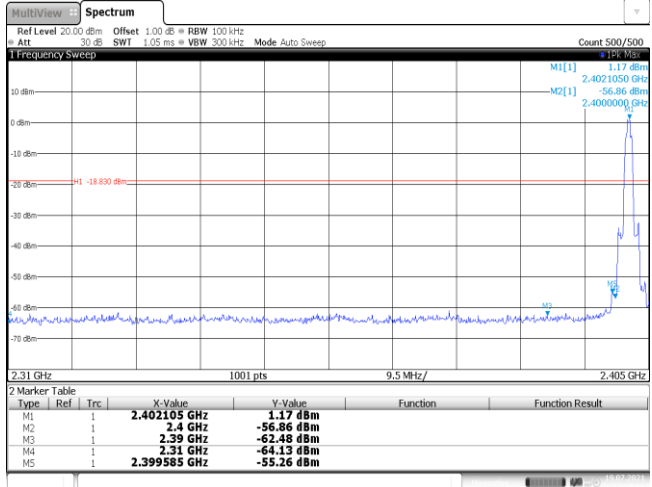
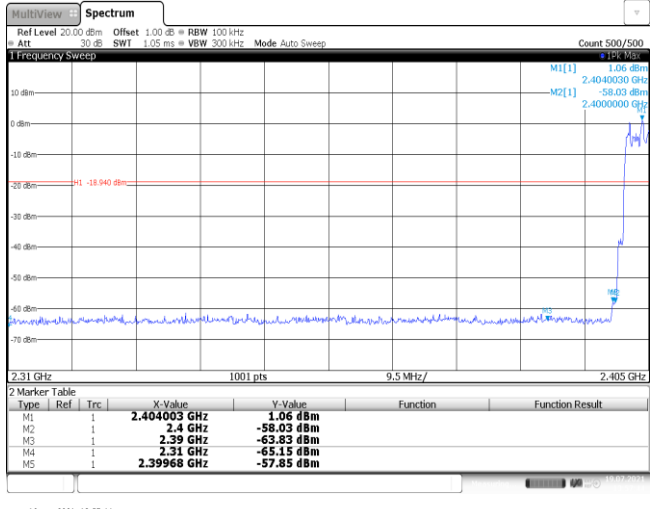
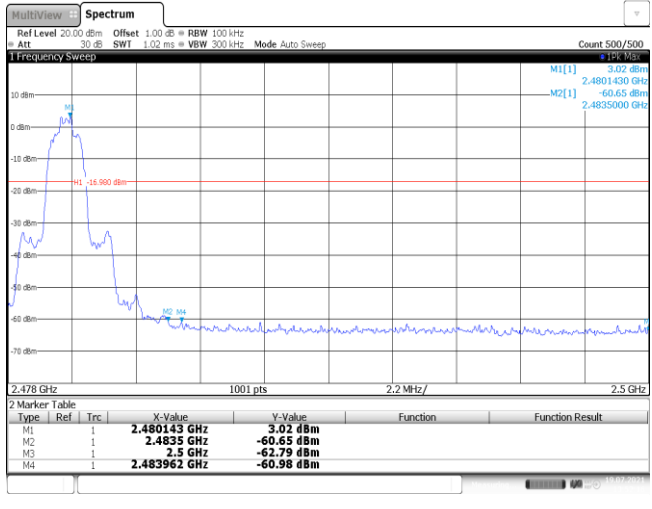
Date: 19.07.2021 11:08:52

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<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="683 1742 1337 1841"> <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>2.479835 GHz</td> <td>2.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-61.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-64.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483588 GHz</td> <td>-61.62 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19-Jul-2021 13:25:08</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479835 GHz	2.89 dBm			M2	1		2.4835 GHz	-61.16 dBm			M3	1		2.5 GHz	-64.15 dBm			M4	1		2.483588 GHz	-61.62 dBm									
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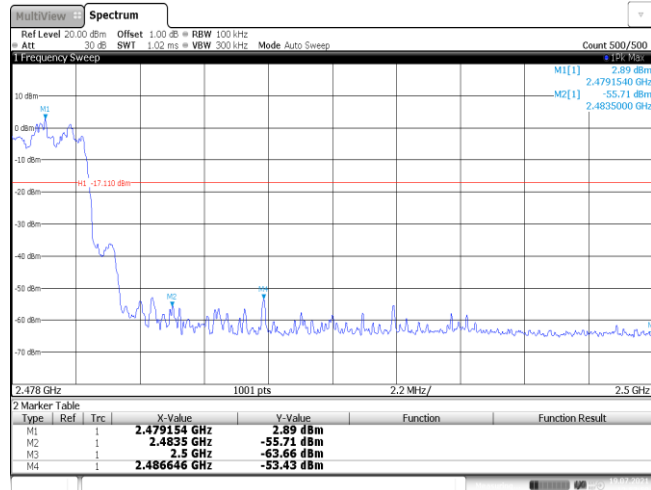
CH78  
Hopping mode



Date: 19.01.2021 13:33:18

Test Item:	Band edge	Modulation type:	8DPSK																																										
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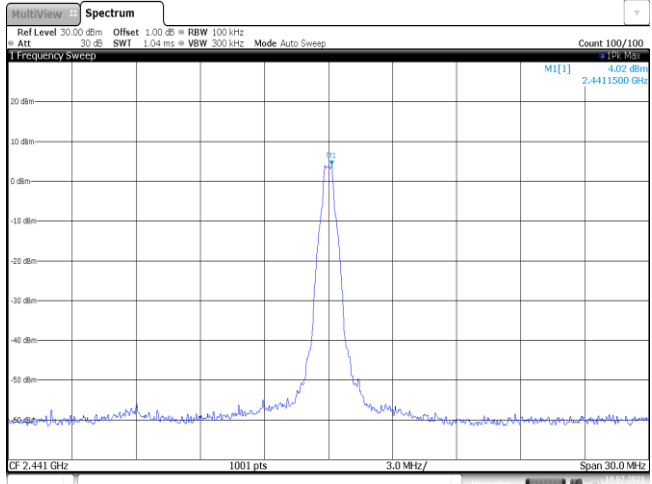
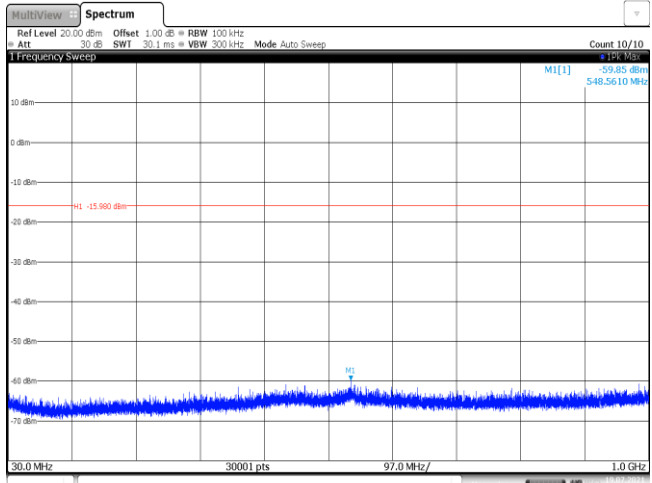
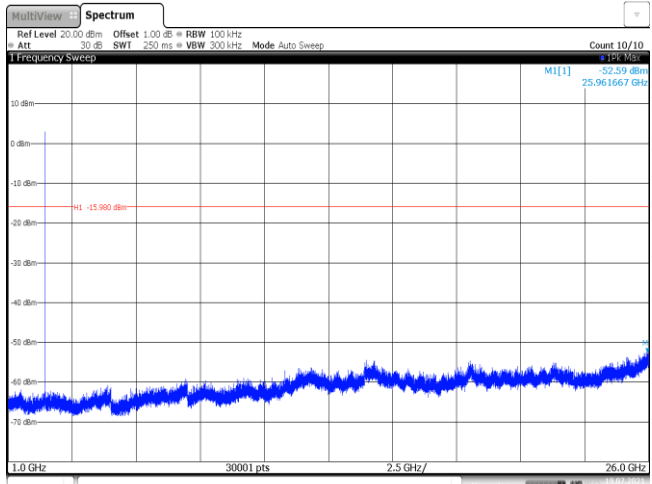
CH78  
Hoppig mode



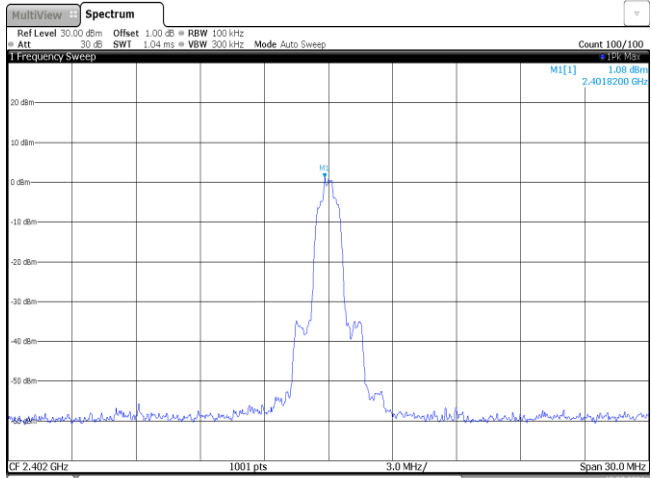
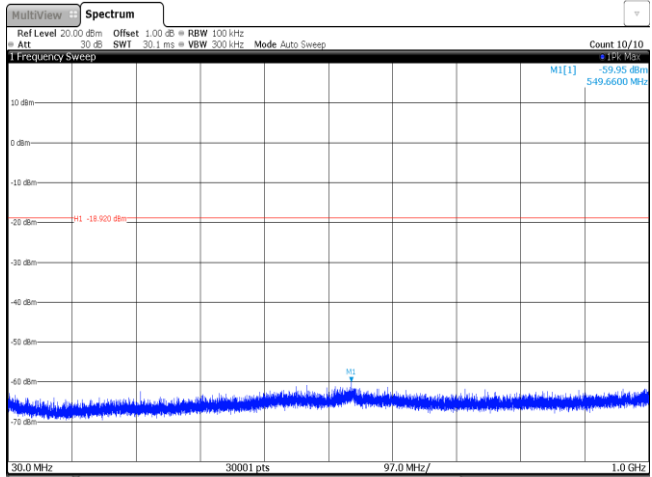
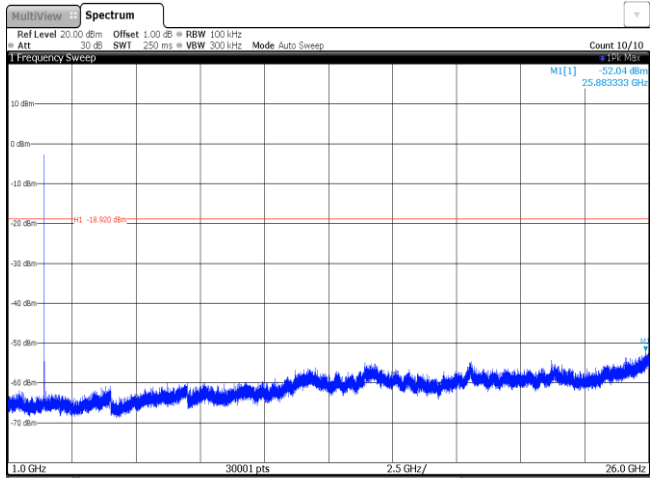
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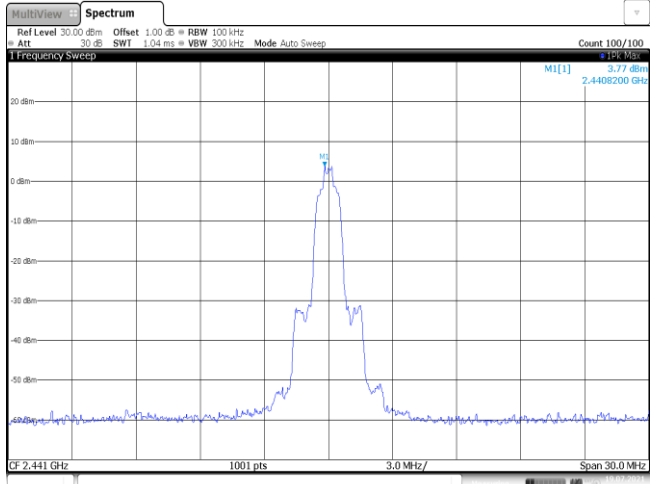
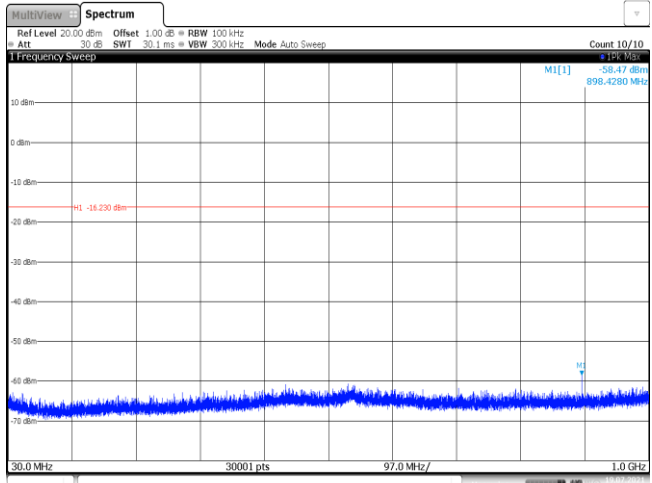
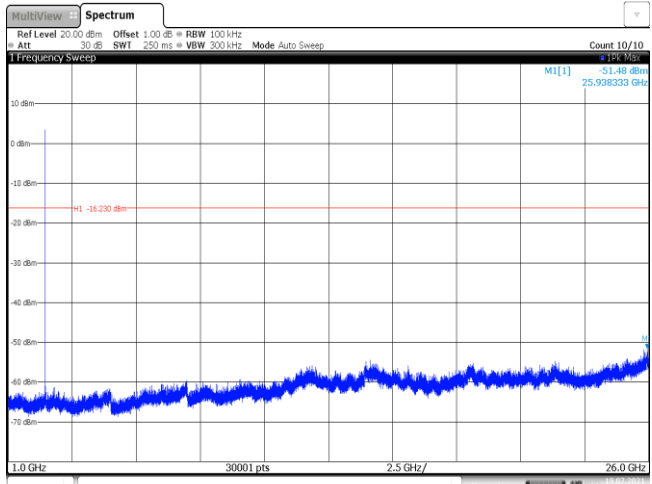


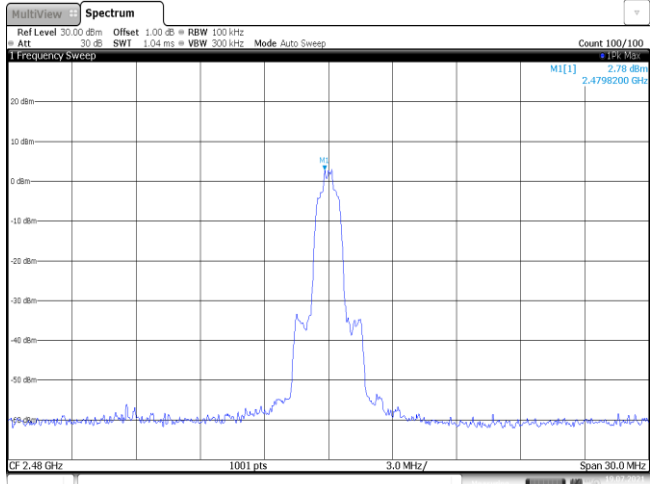
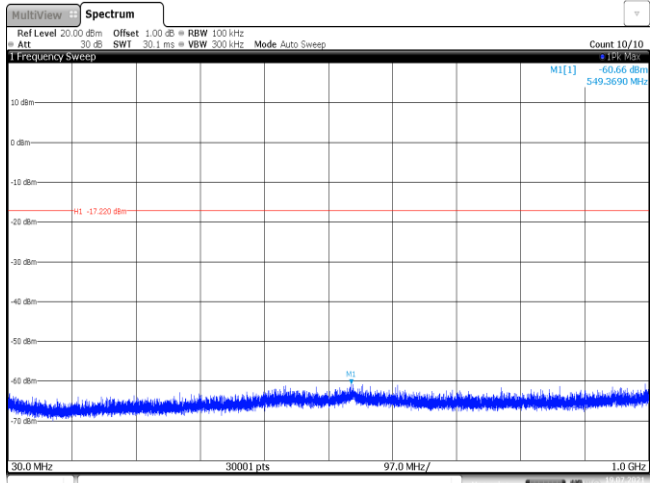
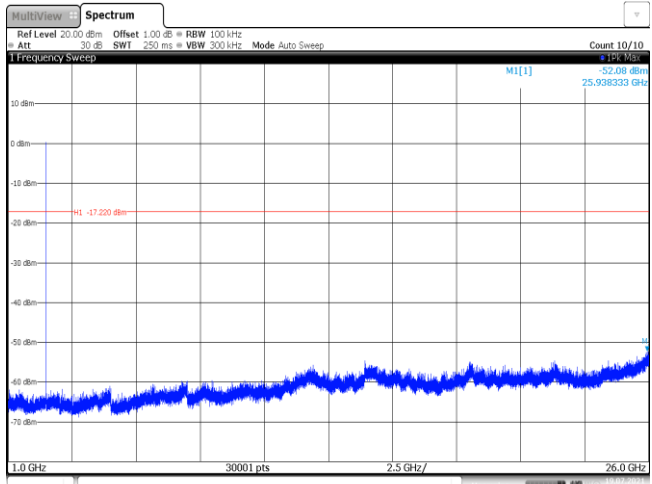
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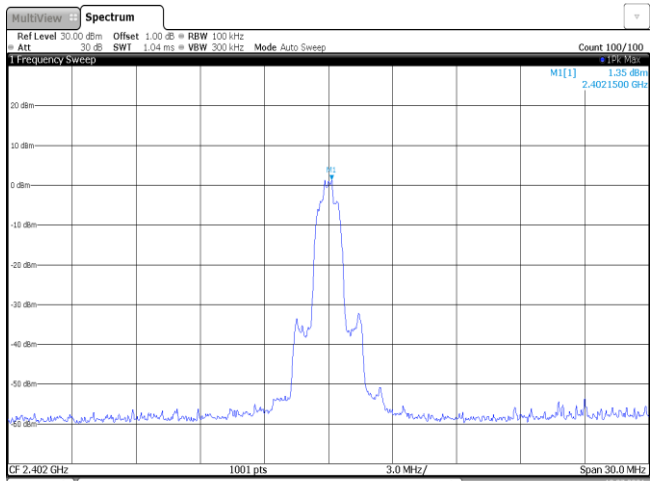
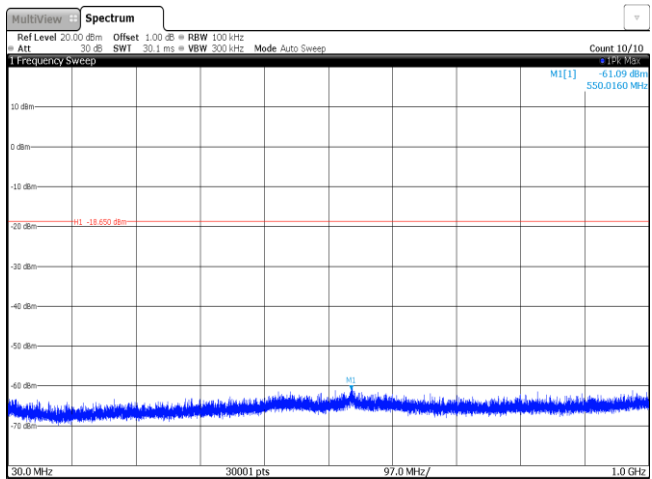
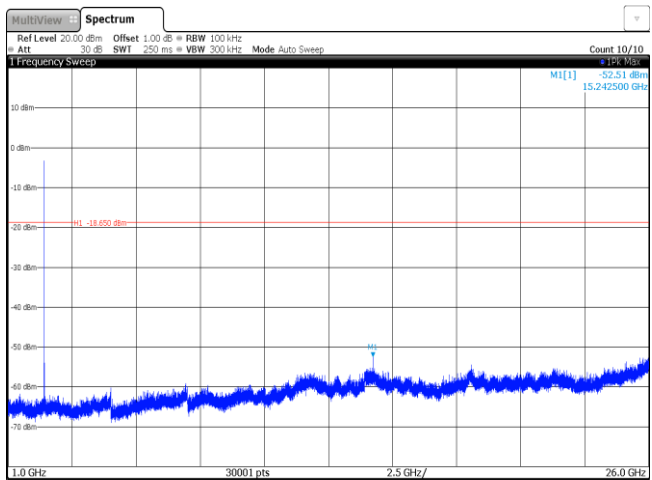
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<p>CH39 30MHz~1000MHz</p>	 <p>Date: 19.01.2021 11:25:36</p>
<p>CH39 1GHz~26GHz</p>	 <p>Date: 19.01.2021 11:25:52</p>

<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] 3.21 dBm 2.4801500 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19.01.2021 11:04:53</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] -61.41 dBm 552.6350 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19.01.2021 11:05:09</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] -52.36 dBm 25.949167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19.01.2021 11:05:25</p>

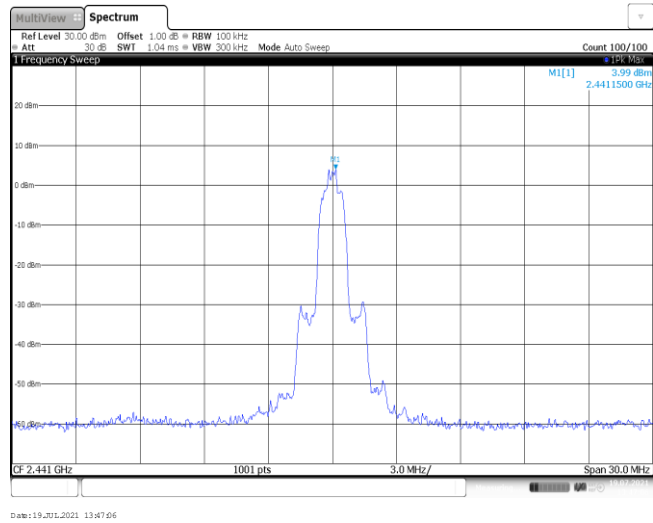
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<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -59.95 dBm 549.6600 MHz M1 -18.900 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19-Jul-2021 11:42:19</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 M1[1] -52.04 dBm 25.883333 GHz M1 -18.900 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19-Jul-2021 11:42:25</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] 3.77 dBm 2.4408200 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19.01.2021 13:20:58</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] -58.47 dBm 898.4280 MHz H1 -16.230 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19.01.2021 13:21:14</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] -51.48 dBm 25.998333 GHz H1 -16.230 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19.01.2021 13:21:20</p>

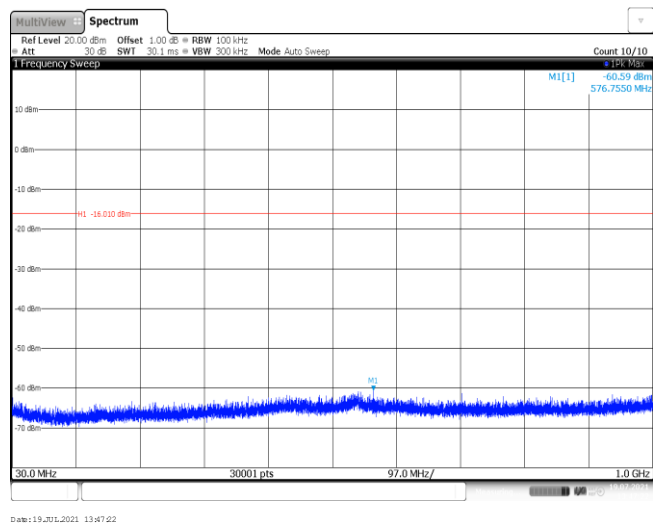
<p>CH78 Reference level</p>	 <p>MultiView Spectrum          Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz          Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep          Count 100/100          1 Frequency Sweep          MI[1] 2.78 dBm          2.4796200 GHz          CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 19.01.2021 13:25:05</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] -60.66 dBm          549.3690 MHz          H1 -17.220 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 19.01.2021 13:25:51</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] -52.08 dBm          25.996333 GHz          H1 -17.220 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 19.01.2021 13:26:08</p>

Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>Date: 19-Jul-2021 13:28:93</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 19-Jul-2021 13:28:49</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 19-Jul-2021 13:29:26</p>		

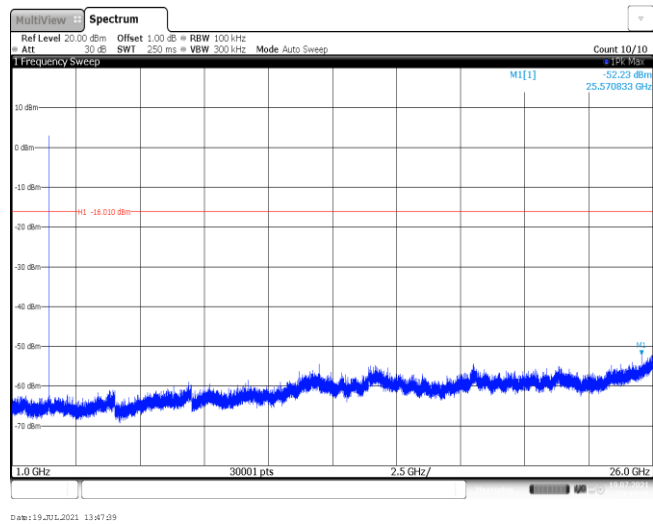
CH39  
Reference level



CH39  
30MHz~1000MHz



CH39  
1GHz~26GHz





<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] 3.24 dBm 2.4801500 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19.01.2021 13:52:24</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] -60.56 dBm 548.5290 MHz H1 -16.700 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19.01.2021 13:52:40</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] -49.46 dBm 3.401667 GHz H1 -16.700 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19.01.2021 13:52:56</p>

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