

# APPENDIX REPORT

Project No.	SHT2107001001EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21070010027	Model No.	E485
Start test date	2021-07-07	Finish date	202-07-07
Temperature	26.4°C	Humidity	35%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhe

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

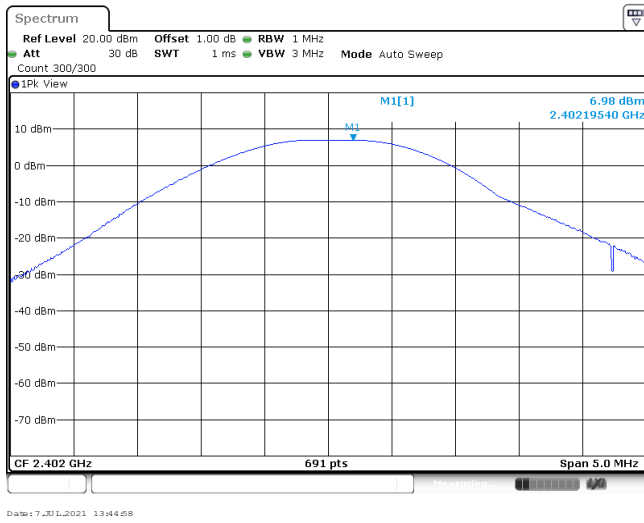
**Appendix A: Peak Output Power**

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	6.98	6.97	≤ 30.00	Pass
	39	5.99	5.98		
	78	5.83	5.82		
π/4DQPSK	00	7.93	6.73	≤ 21.00	Pass
	39	6.99	5.33		
	78	7.02	5.67		
8DPSK	00	8.26	6.79	≤ 21.00	Pass
	39	7.34	5.35		
	78	7.31	5.72		

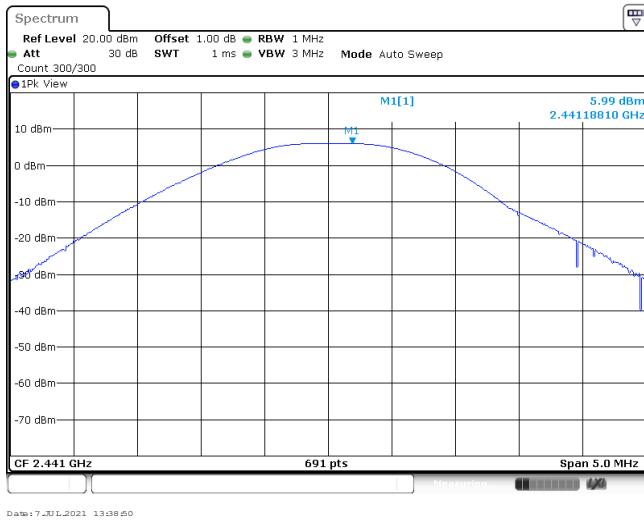
Modulation Type:

GFSK

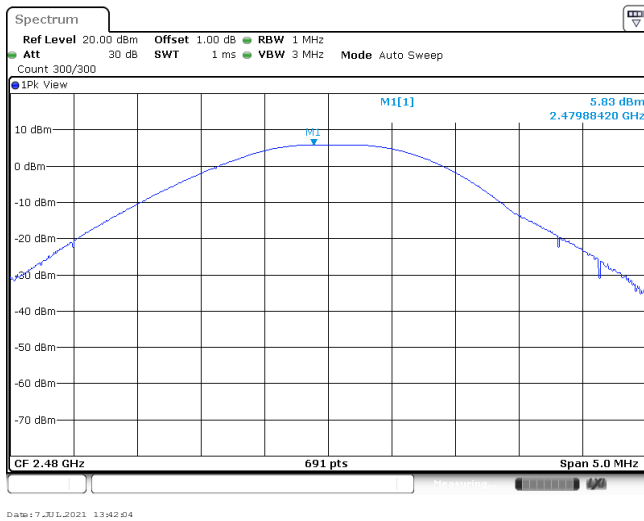
CH00



CH39

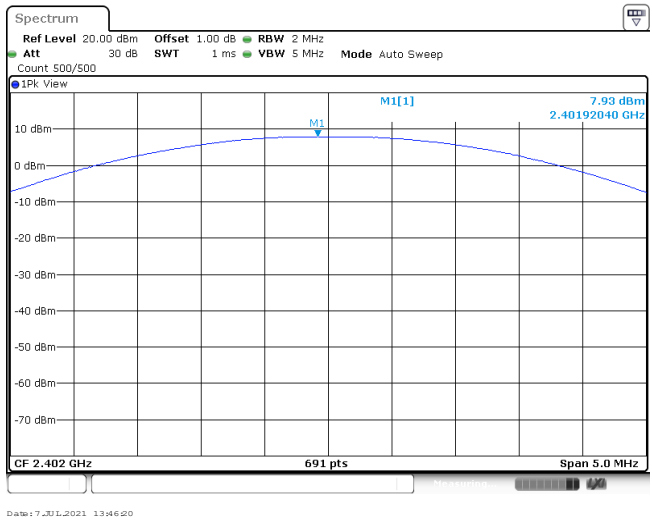


CH78

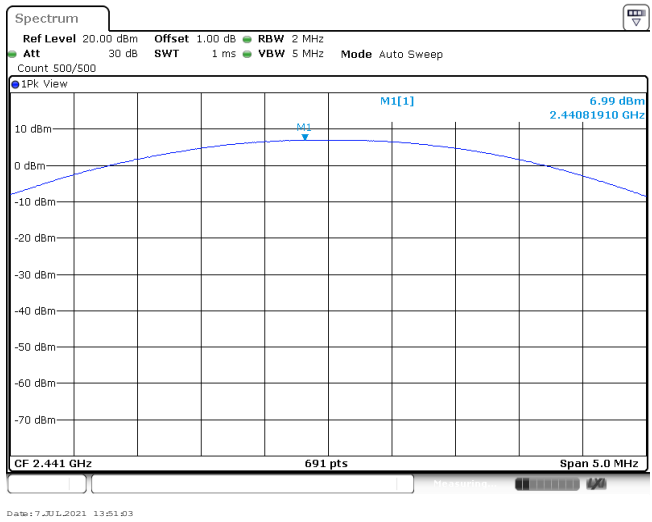


**Modulation Type:**  $\pi/4$ DQPSK

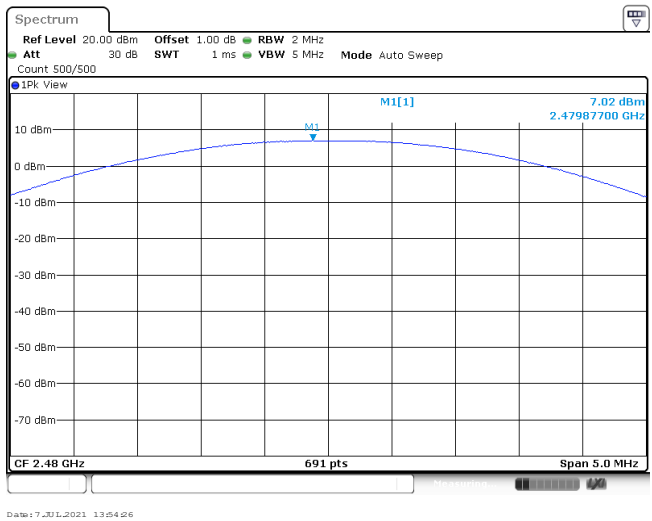
CH00



CH39



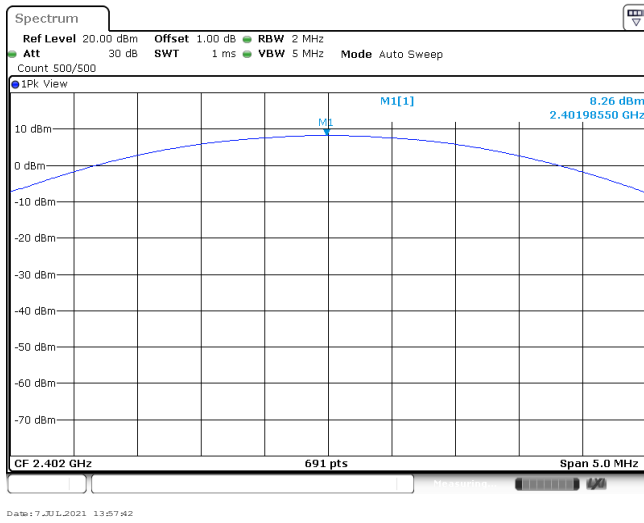
CH78



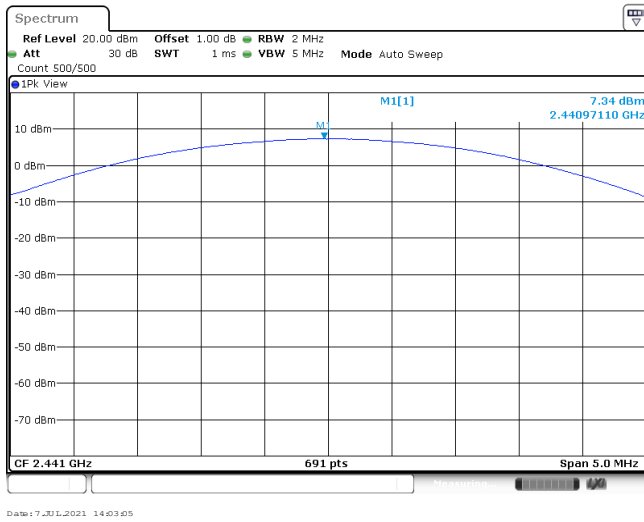
Modulation Type:

8DPSK

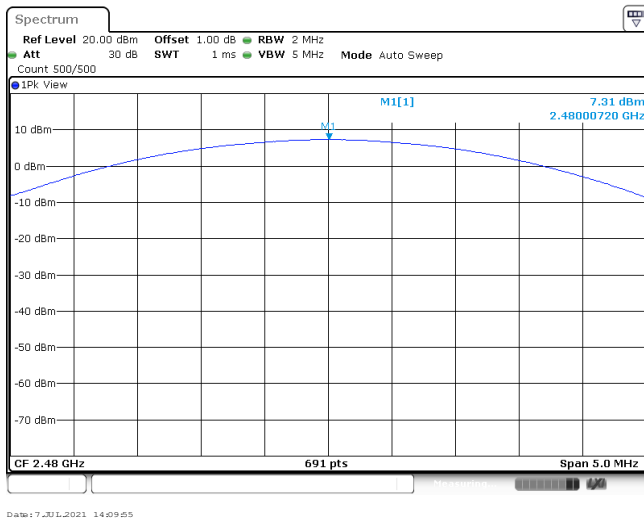
CH00



CH39



CH78

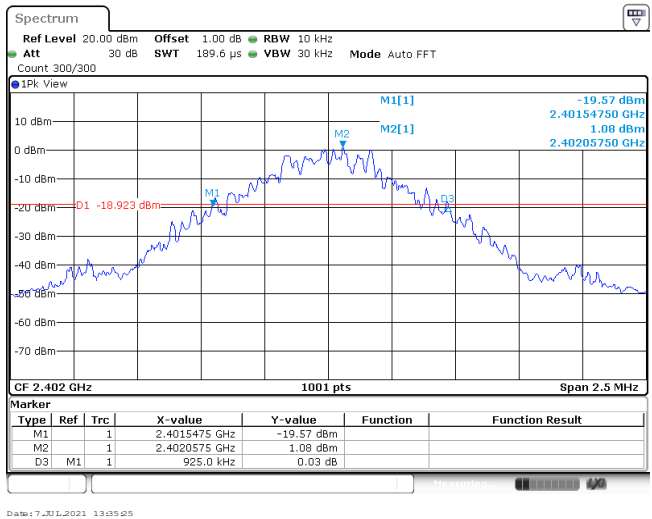


**Appendix B : 20 dB Bandwidth**

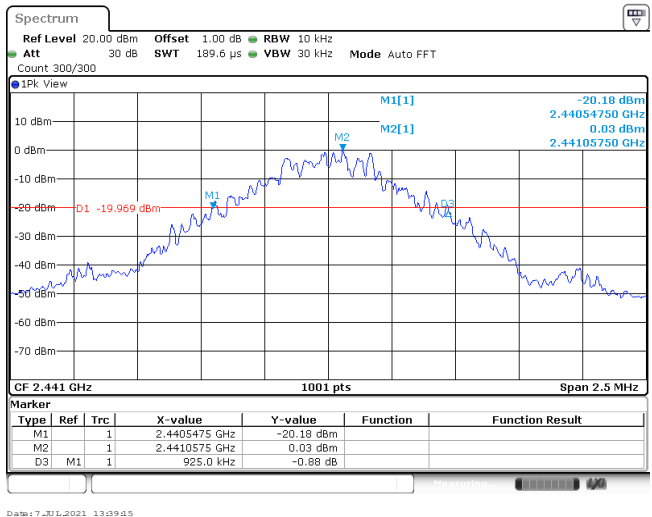
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	925.00		
	78	925.00		
$\pi/4$ DQPSK	00	1287.50	-	Pass
	39	1290.00		
	78	1293.00		
8DPSK	00	1297.50	-	Pass
	39	1295.00		
	78	1297.50		

**Modulation Type: GFSK**

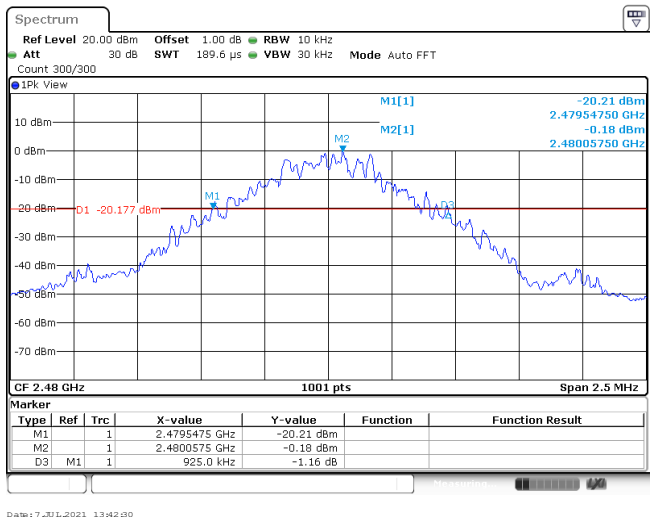
CH00



CH39

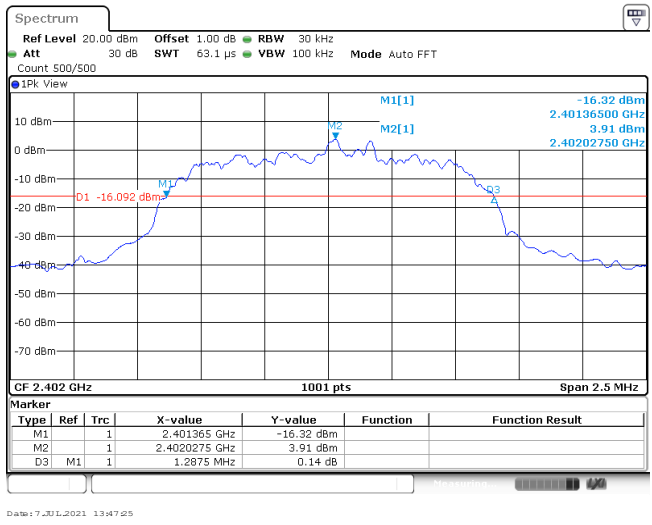


CH78

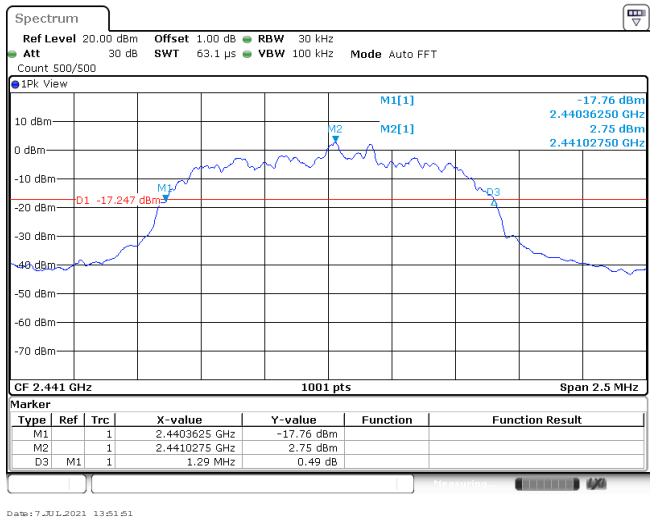


**Modulation Type:**  $\pi/4$ DQPSK

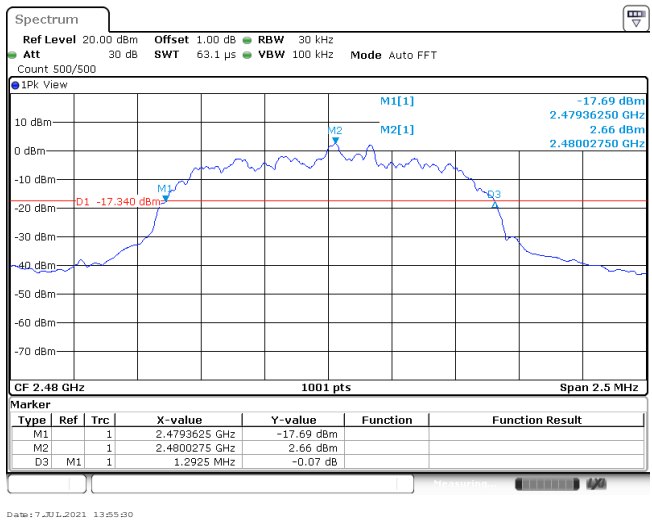
CH00



CH39



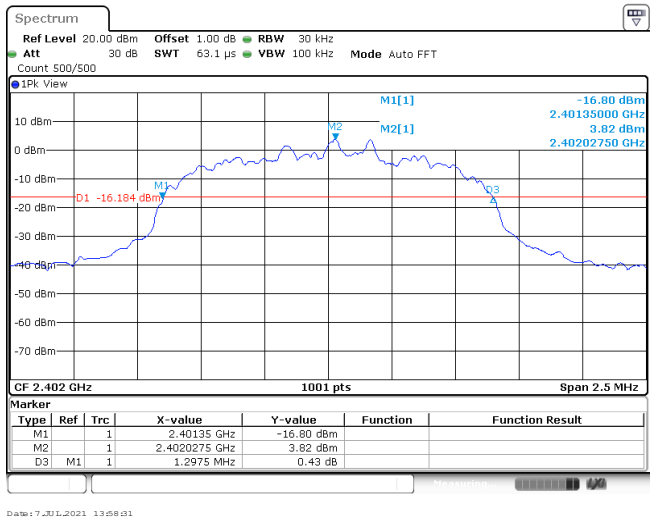
CH78



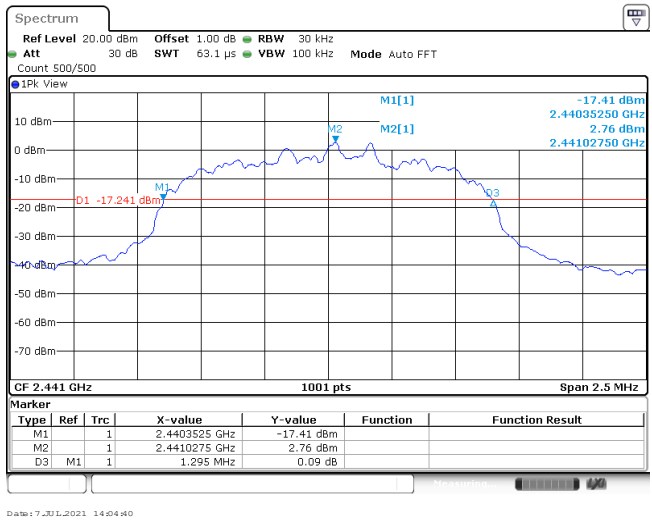


**Modulation Type: 8DPSK**

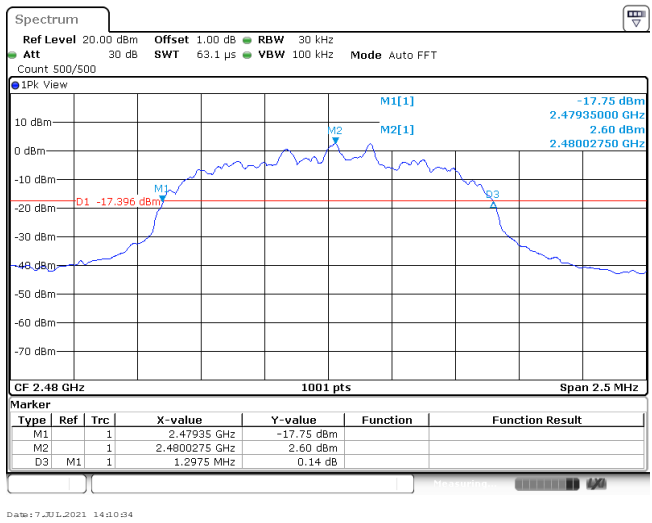
CH00



CH39



CH78



**Appendix C: 99% Occupied Bandwidth**

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.86	-	Pass
	39	0.86		
	78	0.86		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		
8DPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		

Modulation Type: <span style="float: right;"><b>GFSK</b></span>	
CH00	<p>CF 2.402 GHz      1001 pts      Span 2.5 MHz</p> <p>Peak: 5.19 dBm                  2.40183520 GHz                  856.649356643 kHz</p>
CH39	<p>CF 2.441 GHz      1001 pts      Span 2.5 MHz</p> <p>Peak: 4.08 dBm                  2.44083520 GHz                  856.649356643 kHz</p>
CH78	<p>CF 2.48 GHz      1001 pts      Span 2.5 MHz</p> <p>Peak: 3.90 dBm                  2.47983520 GHz                  859.140859141 kHz</p>

Modulation Type: $\pi/4$ DQPSK	
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Peak: 3.86 dBm                  2.40202750 GHz                  1.181318681 MHz</p> <p>Date: 7_JUL_2021 13:47:52</p>
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Peak: 2.70 dBm                  2.44102750 GHz                  1.181318681 MHz</p> <p>Date: 7_JUL_2021 13:51:58</p>
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Peak: 2.65 dBm                  2.48002750 GHz                  1.181318681 MHz</p> <p>Date: 7_JUL_2021 13:55:38</p>

Modulation Type: 8DPSK	
CH00	<p><b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz            Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT            Count 500/500            1Pk View            3.87 dBm            2.40202750 GHz            1.178821179 MHz            CF 2.402 GHz 1001 pts Span 2.5 MHz            Date: 7_30_2021 13:58:39</p>
CH39	<p><b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz            Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT            Count 500/500            1Pk View            2.71 dBm            2.44102750 GHz            1.176323676 MHz            CF 2.441 GHz 1001 pts Span 2.5 MHz            Date: 7_30_2021 14:04:48</p>
CH78	<p><b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz            Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT            Count 500/500            1Pk View            2.65 dBm            2.48002750 GHz            1.181318681 MHz            CF 2.48 GHz 1001 pts Span 2.5 MHz            Date: 7_30_2021 14:04:42</p>

**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥925	Pass
$\pi/4$ DQPSK	39	1.00	≥862	Pass
8DPSK	39	1.00	≥865	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

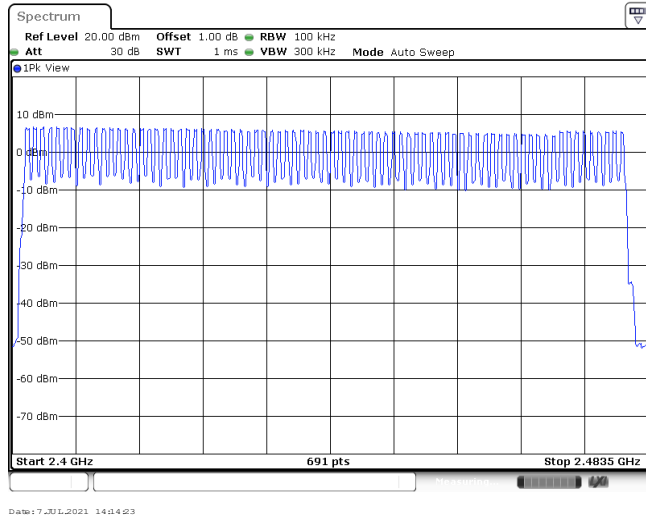
<p style="text-align: center;">GFSK</p>	<p style="text-align: center;">Date: 7_JUL_2021 13:37:56</p>
<p style="text-align: center;"><math>\pi/4</math>DQPSK</p>	<p style="text-align: center;">Date: 7_JUL_2021 13:50:22</p>
<p style="text-align: center;">8DPSK</p>	<p style="text-align: center;">Date: 7_JUL_2021 14:02:10</p>

**Appendix E: Hopping Channel Number**

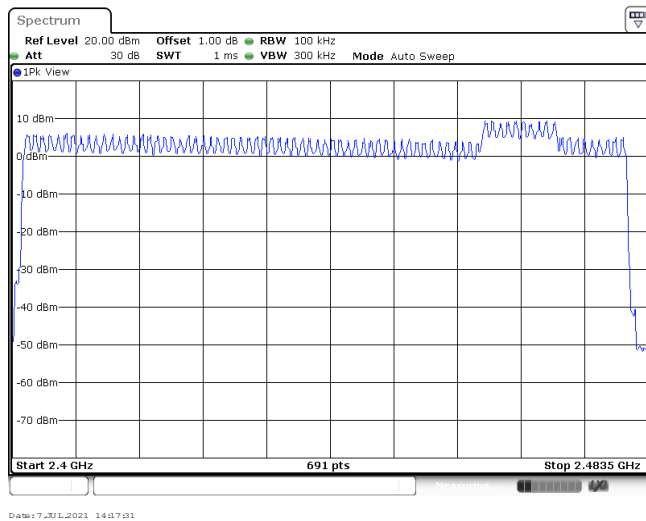
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		



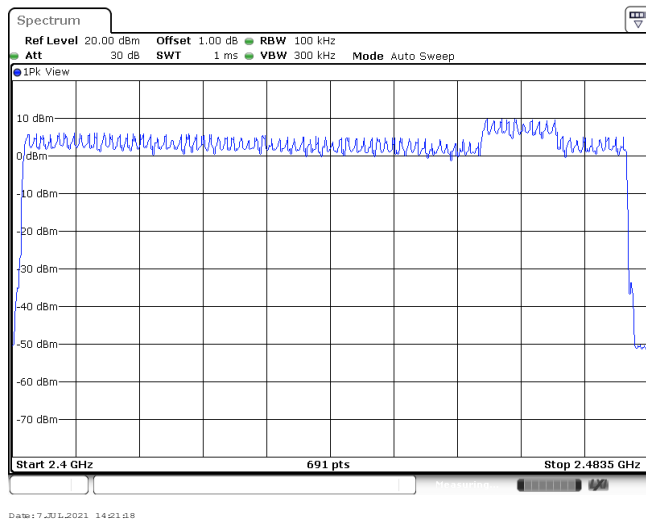
GFSK



$\pi/4$ DQPSK



8DPSK

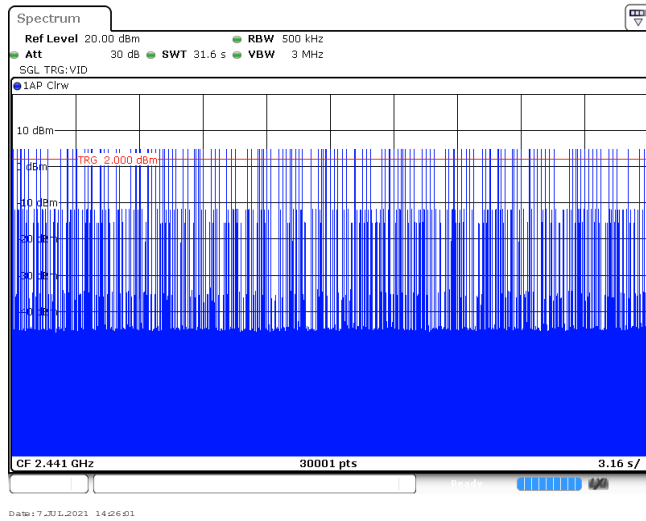


**Appendix F: Dwell Time**

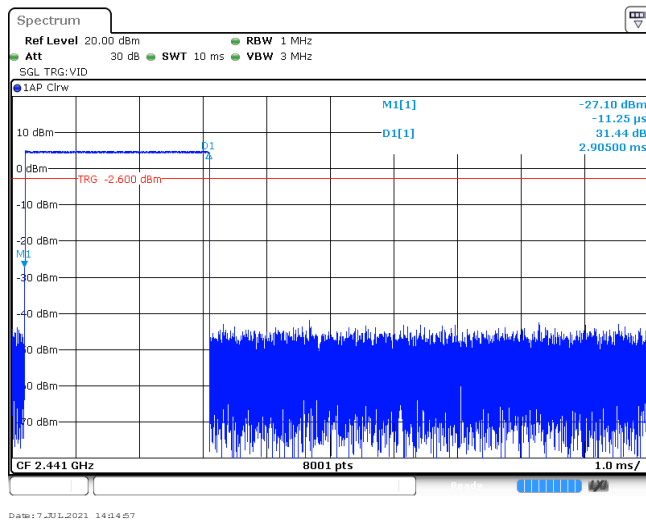
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	320	0.12	≤ 0.40	Pass
	DH3	1.65	151	0.25		
	DH5	2.91	107	0.31		
π/4DQPSK	2DH1	0.38	320	0.12	≤ 0.40	Pass
	2DH3	1.64	167	0.27		
	2DH5	2.88	106	0.31		
8DPSK	3DH1	0.38	319	0.12	≤ 0.40	Pass
	3DH3	1.63	158	0.26		
	3DH5	2.88	102	0.29		

Modulation Type: GFSK	
DH1 Burst width	<p>                     Spectrum                      Ref Level 20.00 dBm RBW 1 MHz                      Att 30 dB SWT 10 ms VBW 3 MHz                      SGL TRG:VID                      1AP Cirw                      M1[1] -9.79 dBm                      D1[1] -1.25 µs                      TRG 2.000 dBm 8.42 dB                      390.00 µs                      CF 2.441 GHz 8001 pts 1.0 ms/                 </p> <p>Date: 7_JUL_2021 14:24:18</p>
DH1 Burst number	<p>                     Spectrum                      Ref Level 20.00 dBm RBW 500 kHz                      Att 30 dB SWT 31.6 s VBW 3 MHz                      SGL TRG:VID                      1AP Cirw                      TRG 2.000 dBm                      CF 2.441 GHz 30001 pts 3.16 s/                 </p> <p>Date: 7_JUL_2021 14:24:51</p>
DH3 Burst width	<p>                     Spectrum                      Ref Level 20.00 dBm RBW 1 MHz                      Att 30 dB SWT 10 ms VBW 3 MHz                      SGL TRG:VID                      1AP Cirw                      M1[1] 2.33 dBm                      D1[1] -1.25 µs                      TRG 2.000 dBm 2.33 dB                      1.64625 ms                      CF 2.441 GHz 8001 pts 1.0 ms/                 </p> <p>Date: 7_JUL_2021 14:25:28</p>

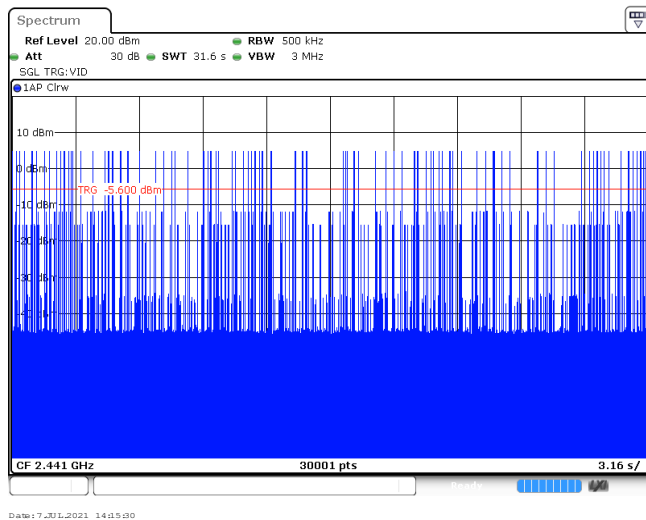
DH3  
Burst number



DH5  
Burst width

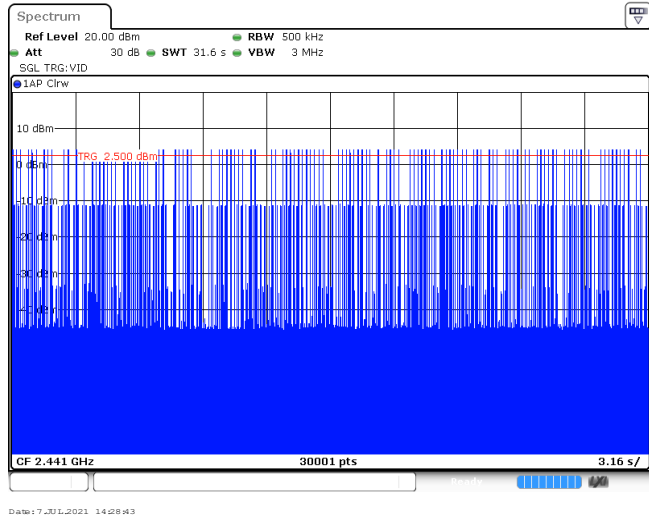


DH5  
Burst number

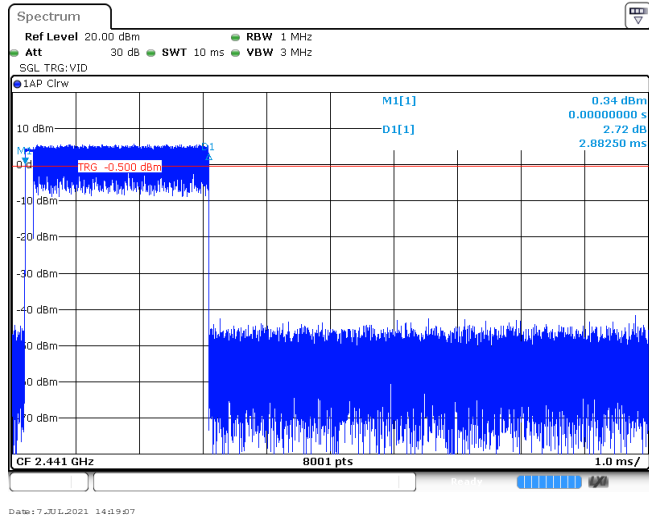


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 7_JUL_2021 14:27:02</p>
2DH1 Burst number	<p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 7_JUL_2021 14:27:04</p>
2DH3 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 7_JUL_2021 14:28:20</p>

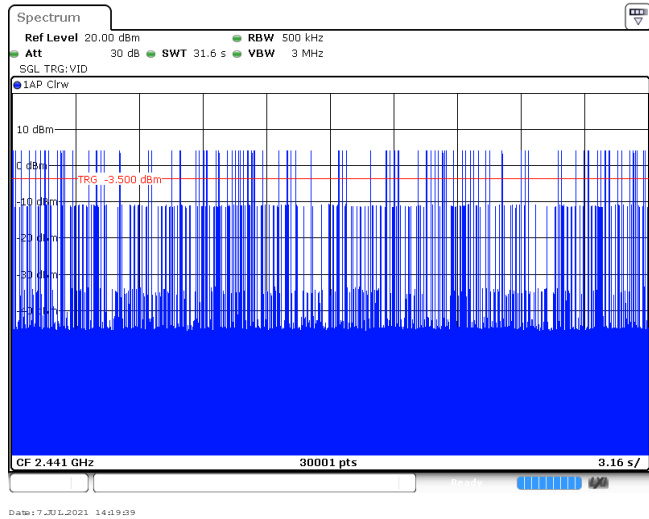
2DH3  
Burst number



2DH5  
Burst width

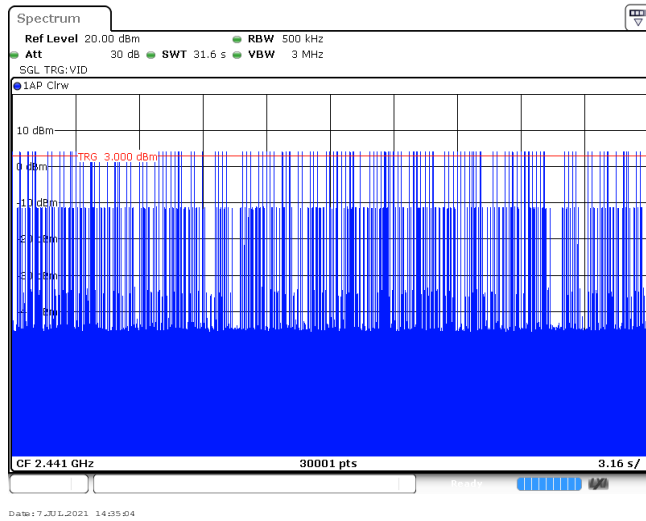


2DH5  
Burst number

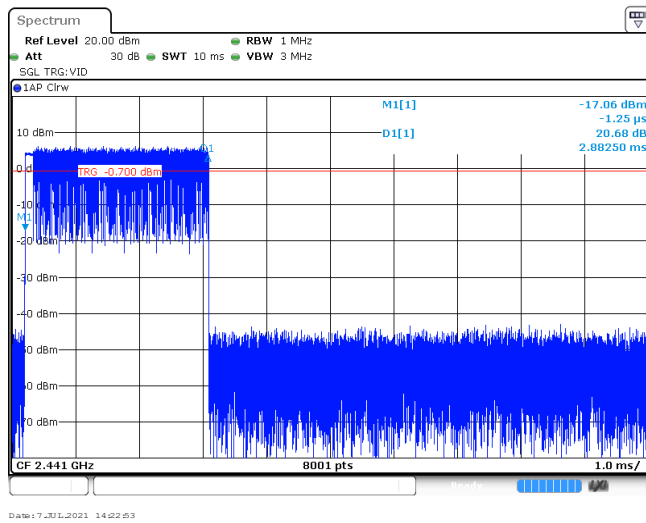


Modulation Type: 8DPSK	
3DH1 Burst width	<p>Spectrum</p> <p>Ref Level 20.00 dBm RBW 1 MHz</p> <p>Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>SGL TRG:VID</p> <p>1AP Cirw</p> <p>M1[1] -17.89 dBm -2.50 µs</p> <p>D1[1] 21.18 dB 381.25 µs</p> <p>TRG 3.200 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 7_JUL_2021 14:29:54</p>
3DH1 Burst number	<p>Spectrum</p> <p>Ref Level 20.00 dBm RBW 500 kHz</p> <p>Att 30 dB SWT 31.6 s VBW 3 MHz</p> <p>SGL TRG:VID</p> <p>1AP Cirw</p> <p>M1[1] -10.42 dBm -1.25 µs</p> <p>D1[1] 13.82 dB 1.63125 ms</p> <p>TRG 3.200 dBm</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 7_JUL_2021 14:30:07</p>
3DH3 Burst width	<p>Spectrum</p> <p>Ref Level 20.00 dBm RBW 1 MHz</p> <p>Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>SGL TRG:VID</p> <p>1AP Cirw</p> <p>M1[1] -10.42 dBm -1.25 µs</p> <p>D1[1] 13.82 dB 1.63125 ms</p> <p>TRG 3.200 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 7_JUL_2021 14:34:31</p>

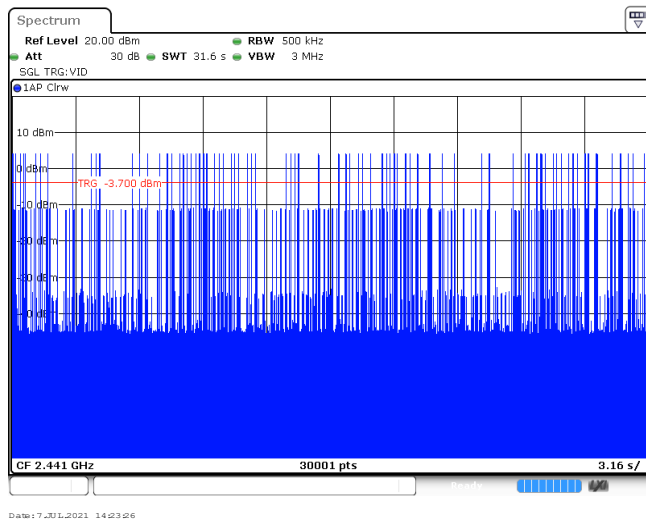
3DH3  
Burst number



3DH5  
Burst width



3DH5  
Burst number

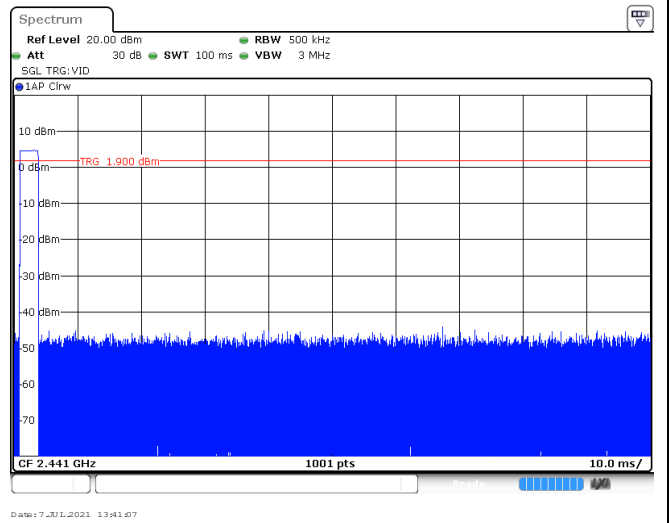
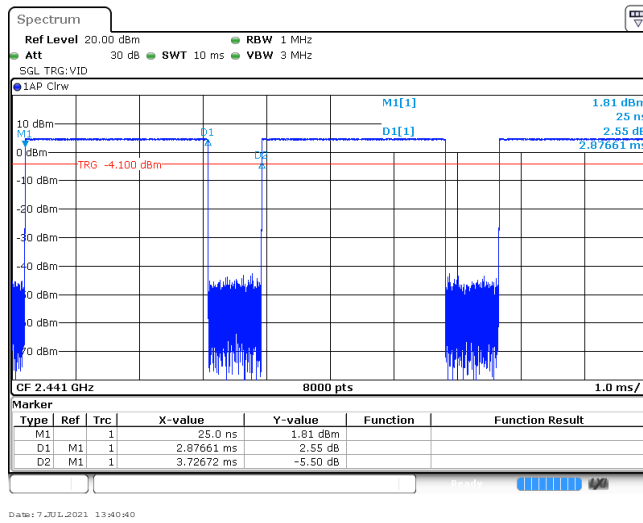




**Appendix G: Duty Cycle Correction Factor (DCCF)**

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log( $T_{\text{on time}} / T_{\text{period}}$ )					
Modulation type	Test Frequency (MHz)	$T_{\text{on time}}$ for single burst [ms]	$T_{\text{period}}$ [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.88	100	1	-30.81
$\pi/4$ DQPSK	2441	2.87	100	1	-30.84
8DPSK	2441	2.87	100	1	-30.84

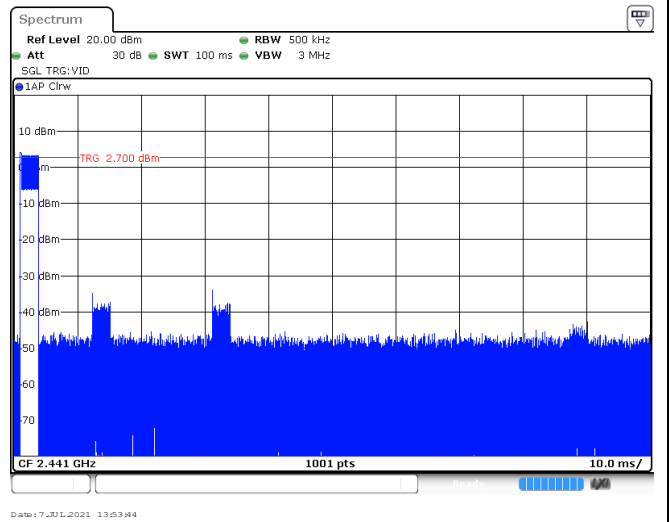
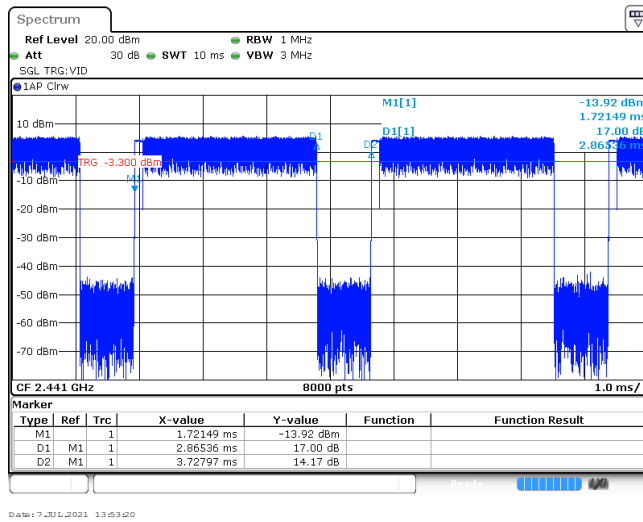
GFSK



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

Burst Quantity

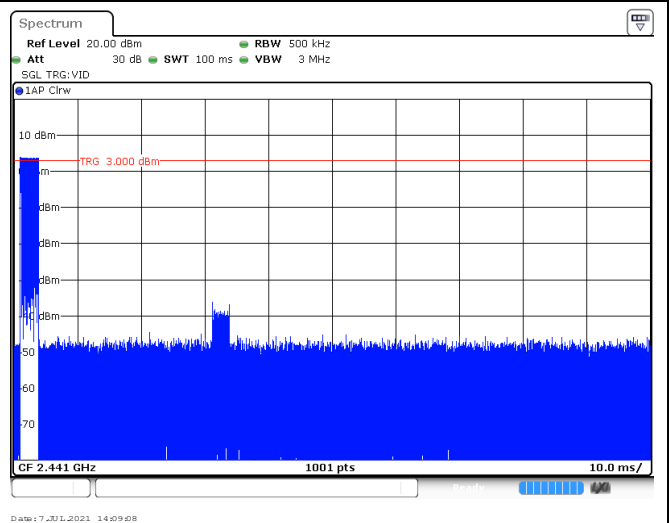
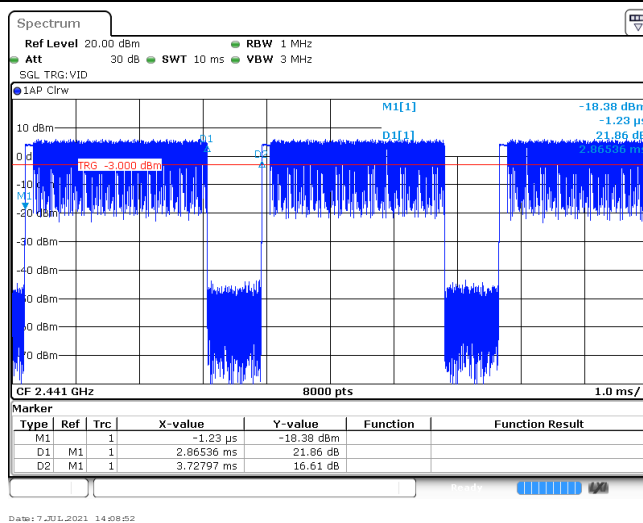
$\pi/4$  DQPSK



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

Burst Quantity

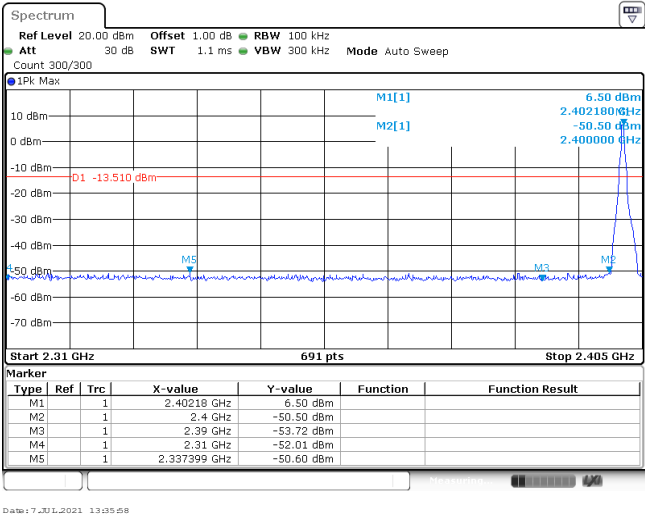
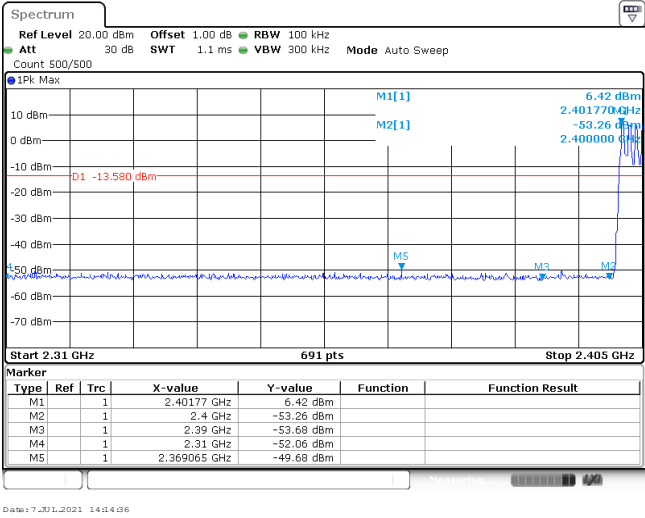
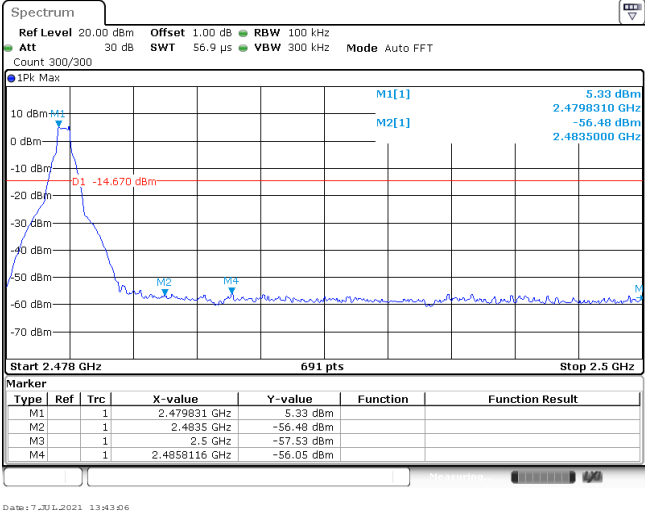
8DPSK



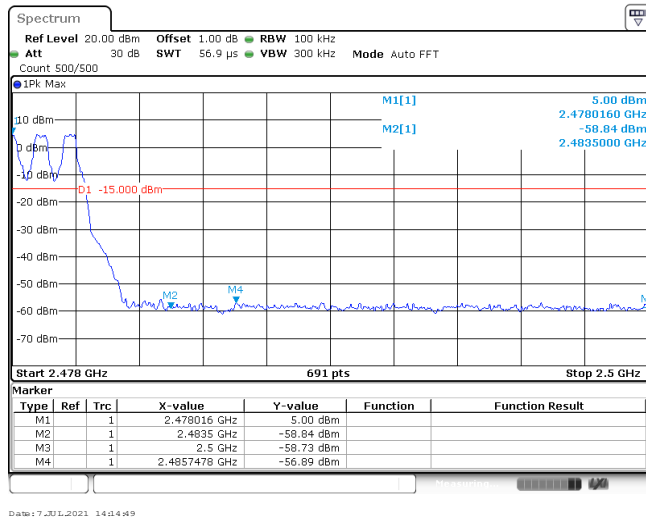
T<sub>on</sub> time for single burst

Burst Quantity

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

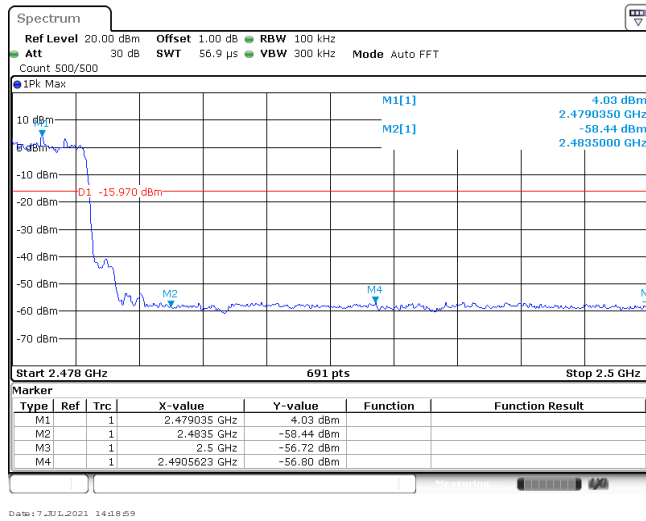
Test Item:	Band edge	Modulation type:	GFSK																																																
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="687 725 1334 824"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.40218 GHz</td> <td>5.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-50.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-53.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-52.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.337399 GHz</td> <td>-50.60 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40218 GHz	5.50 dBm			M2	1			2.4 GHz	-50.50 dBm			M3	1			2.39 GHz	-53.72 dBm			M4	1			2.31 GHz	-52.01 dBm			M5	1			2.337399 GHz	-50.60 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
M1	1			2.40218 GHz	5.50 dBm																																														
M2	1			2.4 GHz	-50.50 dBm																																														
M3	1			2.39 GHz	-53.72 dBm																																														
M4	1			2.31 GHz	-52.01 dBm																																														
M5	1			2.337399 GHz	-50.60 dBm																																														
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="687 1274 1334 1373"> <thead> <tr> <th>Marker</th> <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></td> <td>2.40177 GHz</td> <td>6.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-53.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-53.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-52.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.369065 GHz</td> <td>-49.68 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40177 GHz	6.42 dBm			M2	1			2.4 GHz	-53.26 dBm			M3	1			2.39 GHz	-53.68 dBm			M4	1			2.31 GHz	-52.06 dBm			M5	1			2.369065 GHz	-49.68 dBm		
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CH78  
Hopping mode



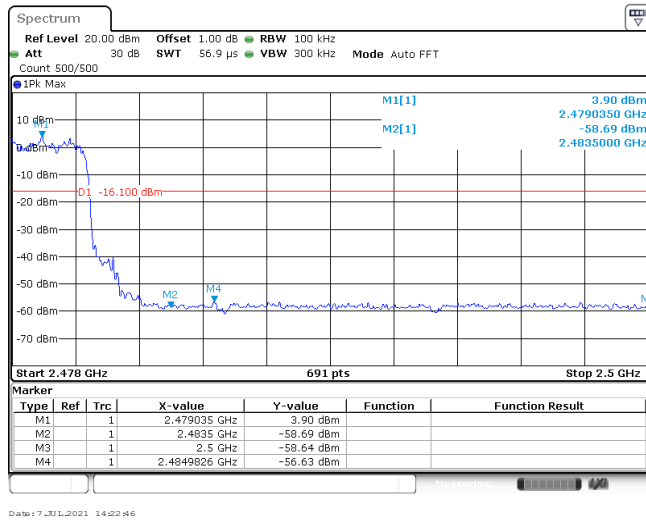
Test Item:	Band edge	Modulation type:	π/4DQPSK																																										
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CH78  
Hopping mode

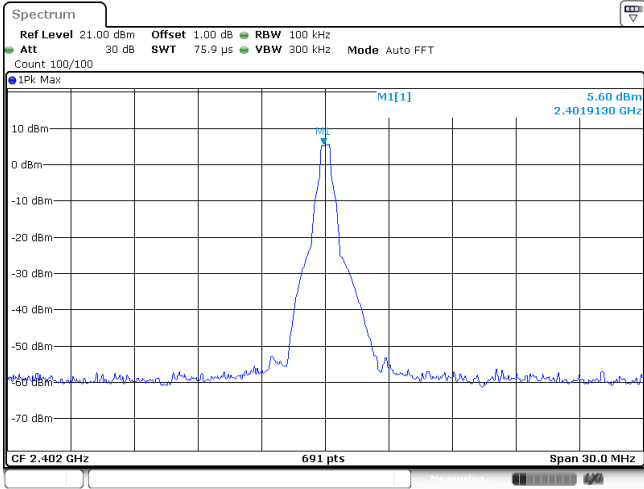
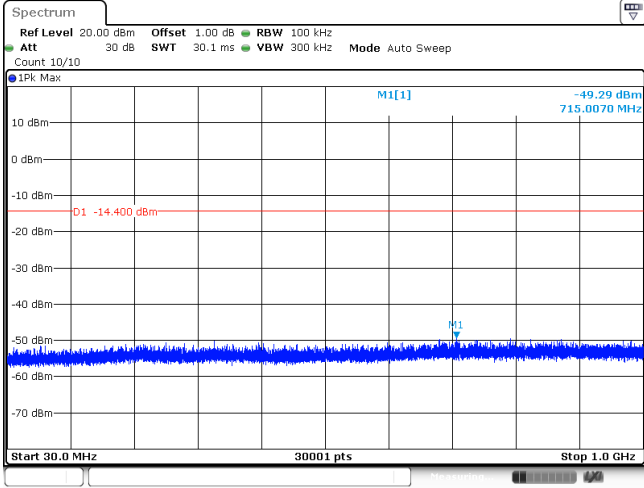
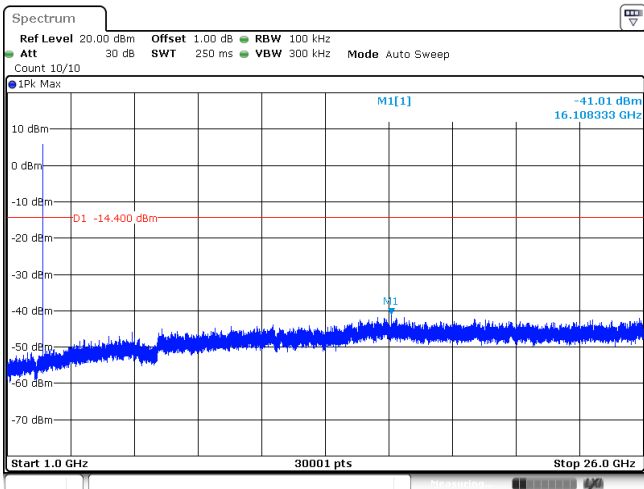


Test Item:	Band edge	Modulation type:	8DPSK																																																
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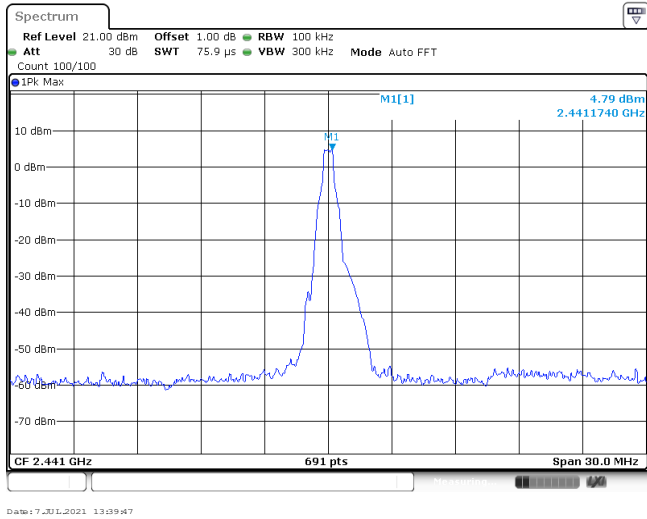
CH78  
Hoppig mode



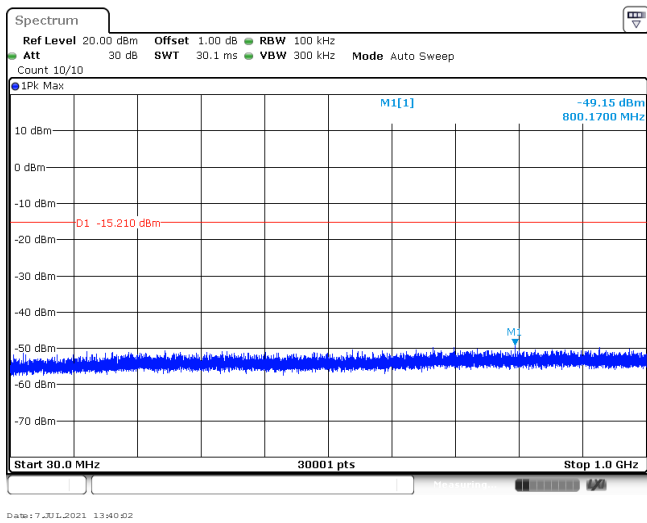


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<p>CH00 1GHz~26GHz</p>			

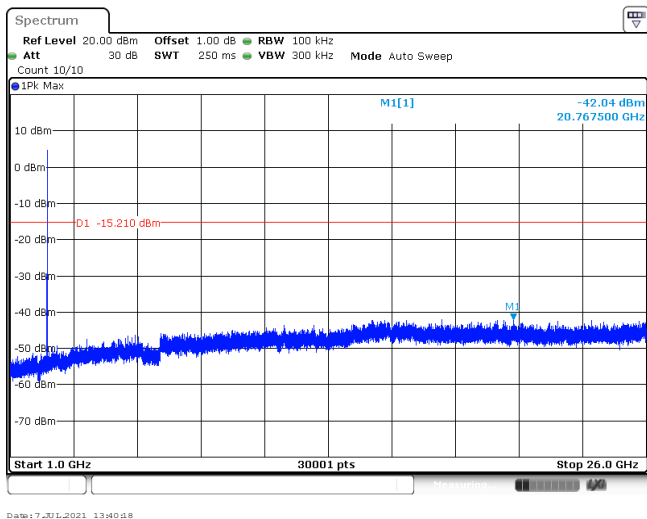
CH39  
Reference level



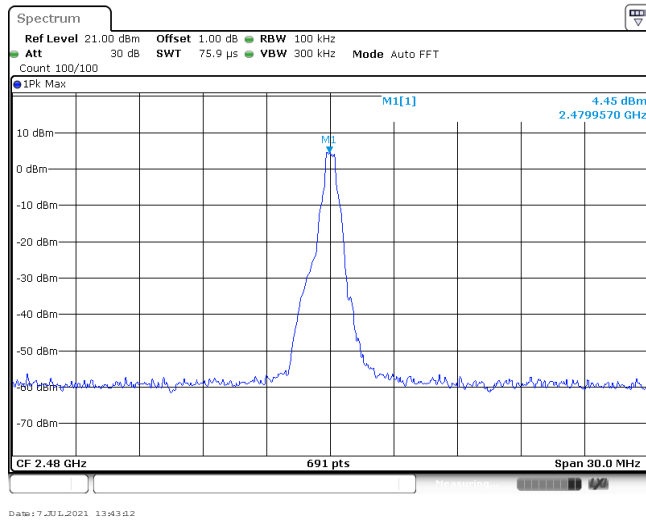
CH39  
30MHz~1000MHz



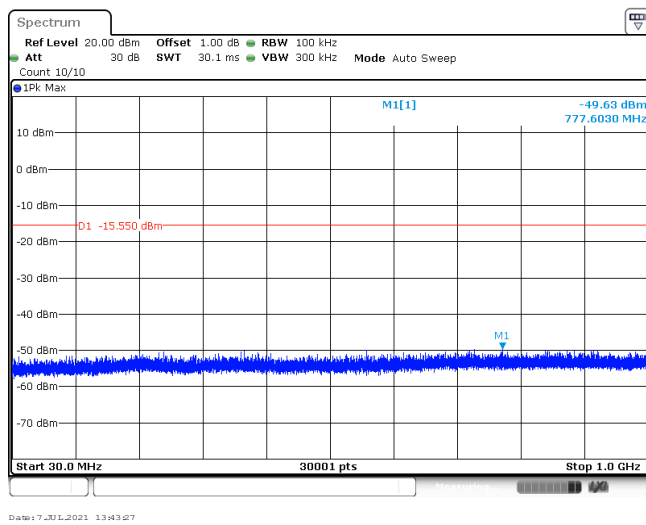
CH39  
1GHz~26GHz



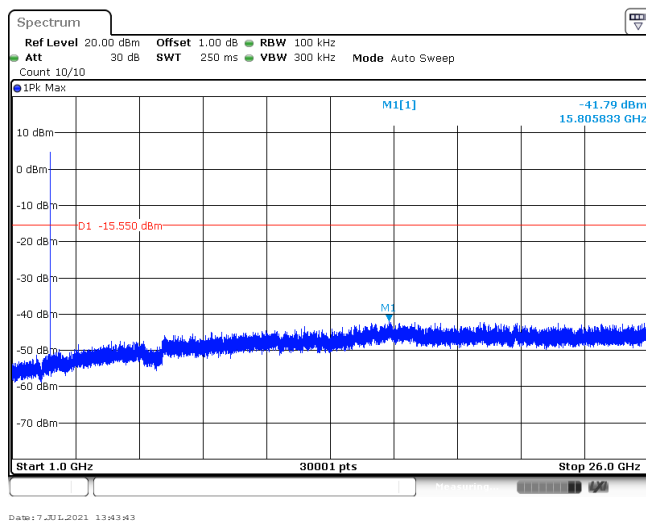
CH78  
Reference level

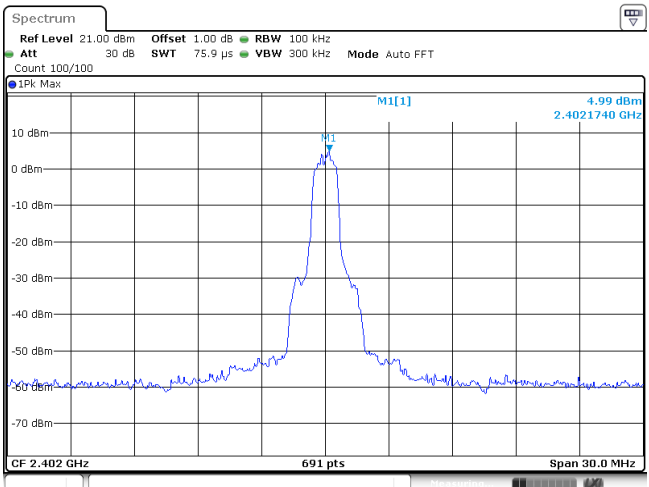
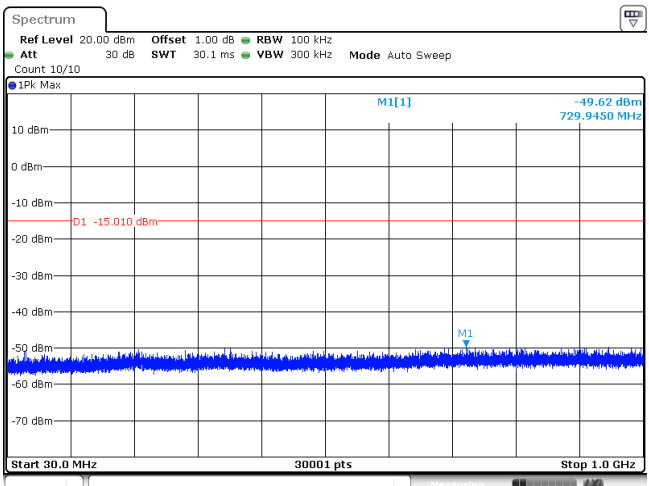
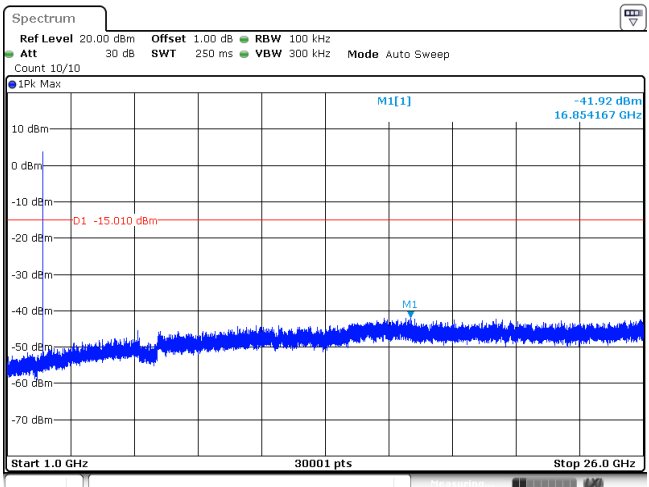


CH78  
30MHz~1000MHz



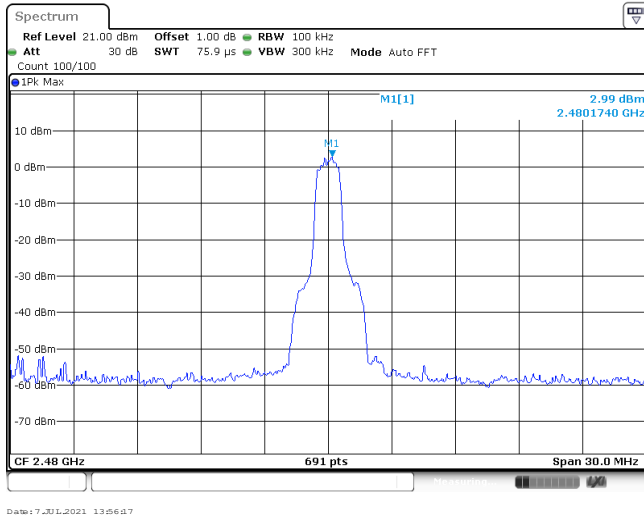
CH78  
1GHz~26GHz



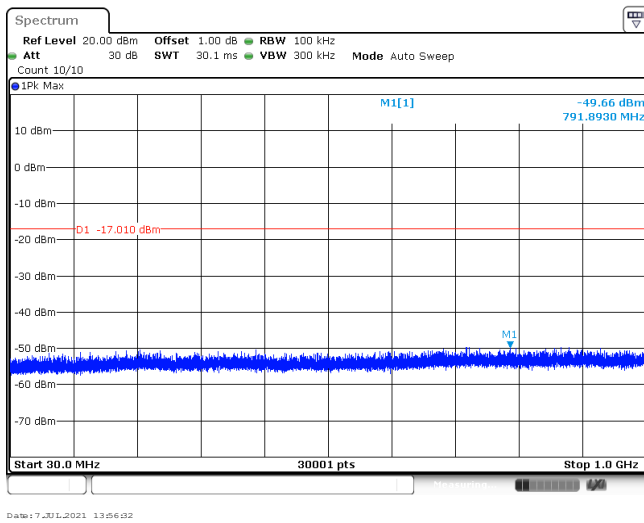
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>CF 2.402 GHz      691 pts      Span 30.0 MHz</p> <p>Date: 7 Jul 2021 13:48:36</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz      30001 pts      Stop 1.0 GHz</p> <p>Date: 7 Jul 2021 13:48:51</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz      30001 pts      Stop 26.0 GHz</p> <p>Date: 7 Jul 2021 13:49:06</p>		

<p>CH39 Reference level</p>	
<p>CH39 30MHz~1000MHz</p>	
<p>CH39 1GHz~26GHz</p>	

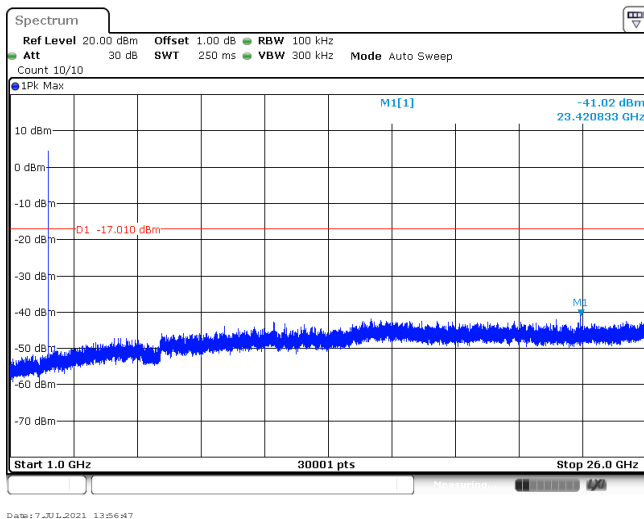
CH78  
Reference level

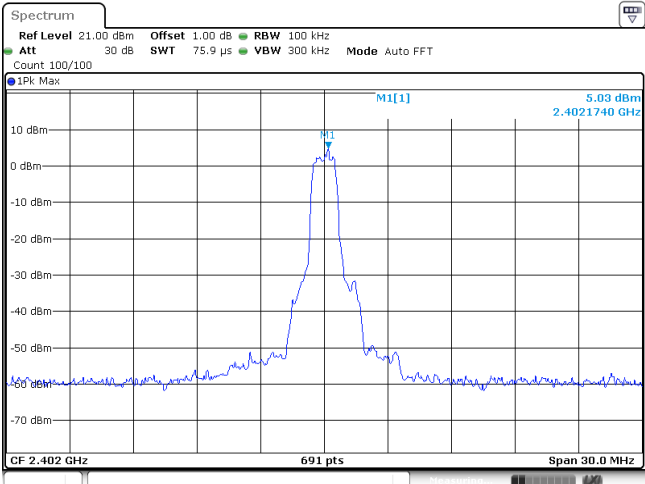
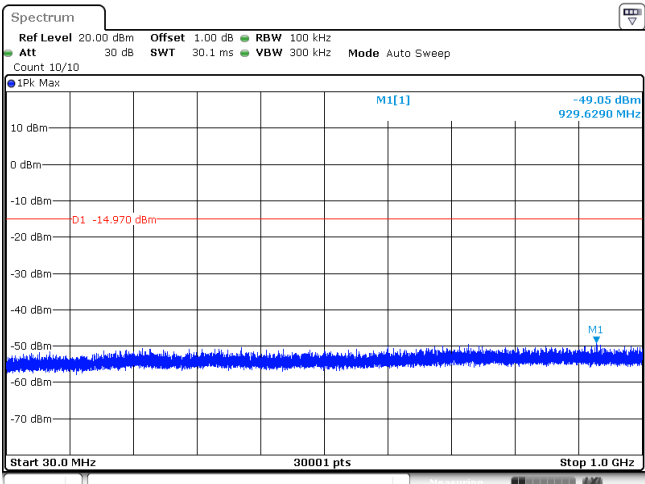
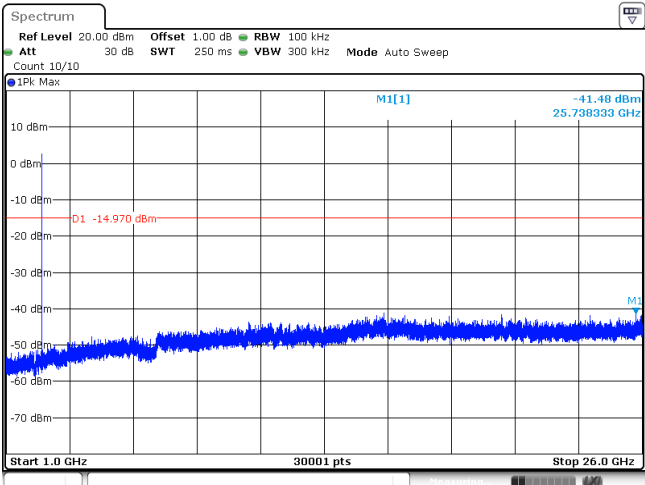


CH78  
30MHz~1000MHz

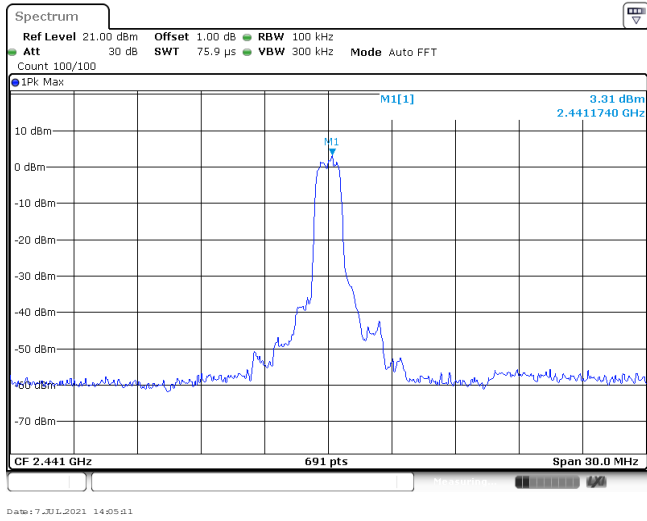


CH78  
1GHz~26GHz

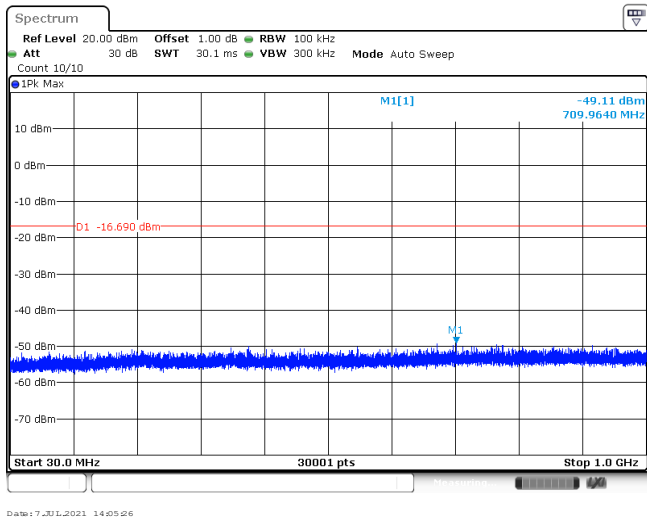


Test Item:	Spurious Emission	Modulation type:	8DPSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 7 Jul 2021 13:59:28</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 7 Jul 2021 13:59:44</p>		

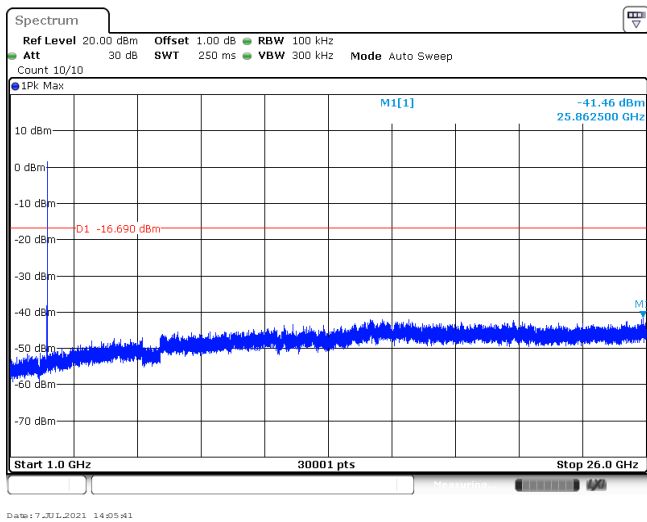
CH39  
Reference level



CH39  
30MHz~1000MHz

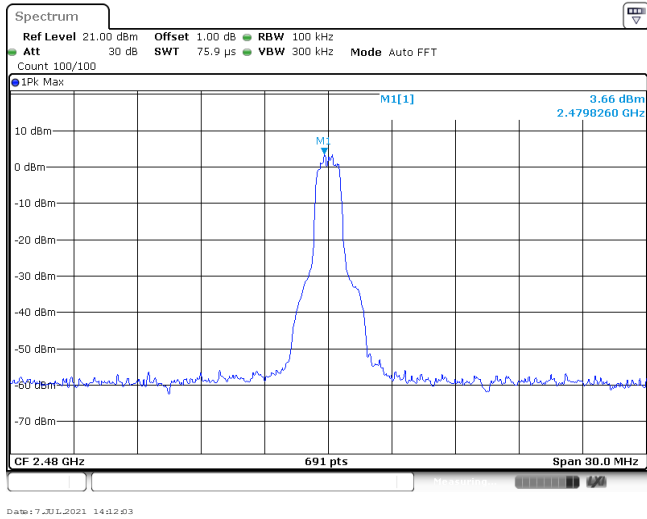


CH39  
1GHz~26GHz

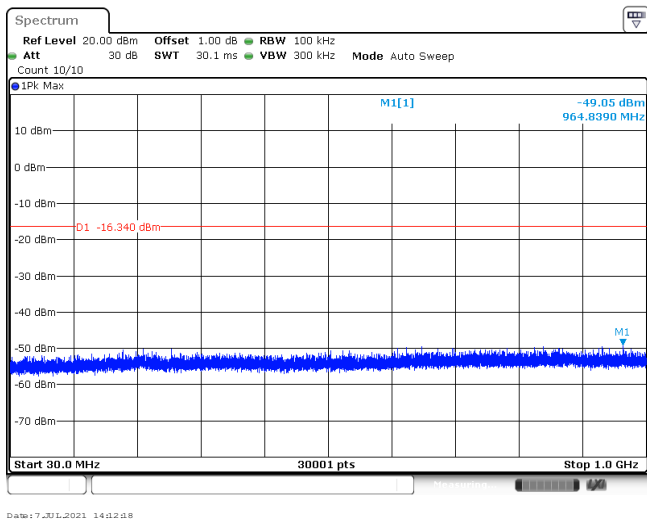




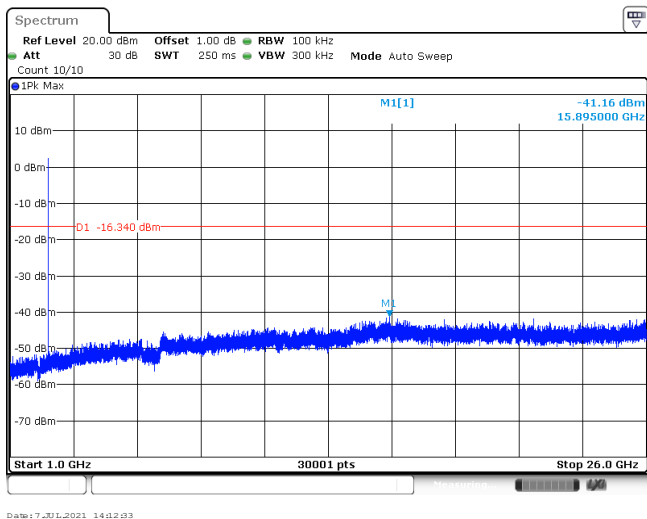
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



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