

APPENDIX REPORT

Project No.	SHT2109040108EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21070035015	Model No.	AM501
Start test date	2021-08.06	Finish date	2021-08-06
Temperature	25.9°C	Humidity	39%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhuo

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

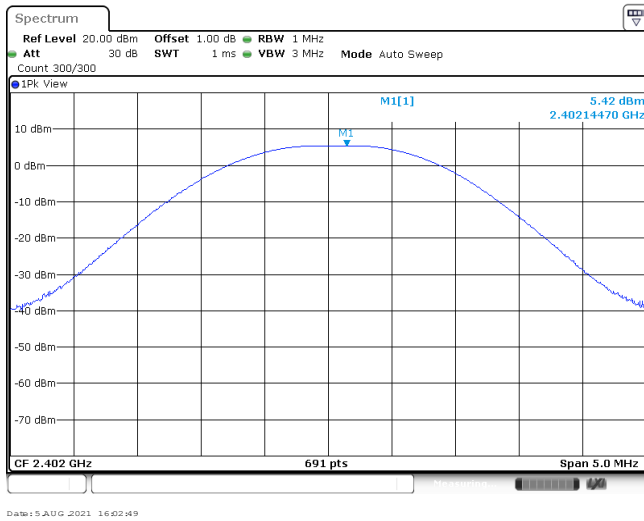
Appendix A: Peak Output Power

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	5.42	5.33	≤ 30.00	Pass
	39	6.08	5.99		
	78	5.15	5.05		
π/4DQPSK	00	3.98	3.09	≤ 21.00	Pass
	39	4.67	3.79		
	78	3.77	2.85		
8DPSK	00	4.26	3.15	≤ 21.00	Pass
	39	4.97	3.82		
	78	4.02	2.86		

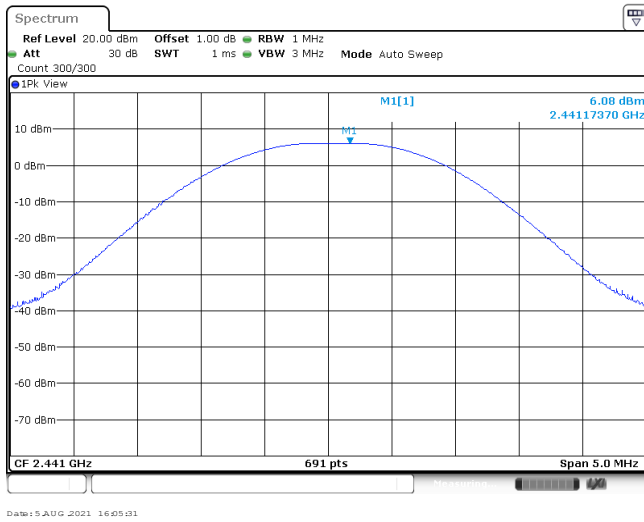
Modulation Type:

GFSK

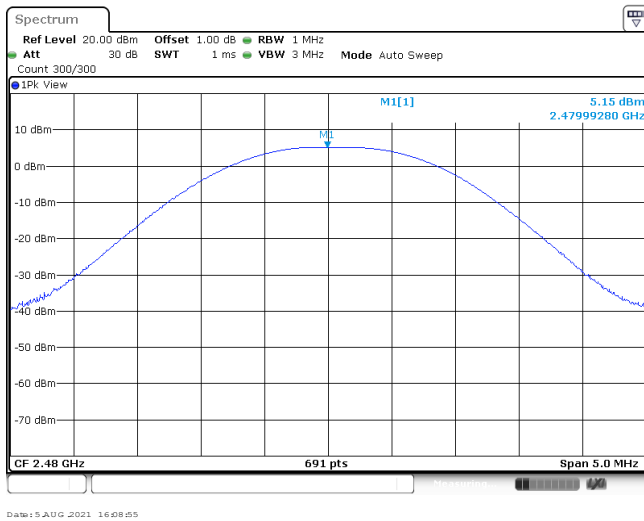
CH00



CH39



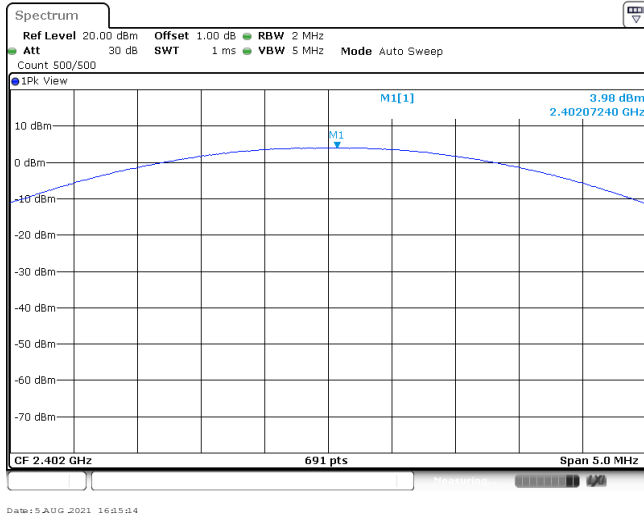
CH78



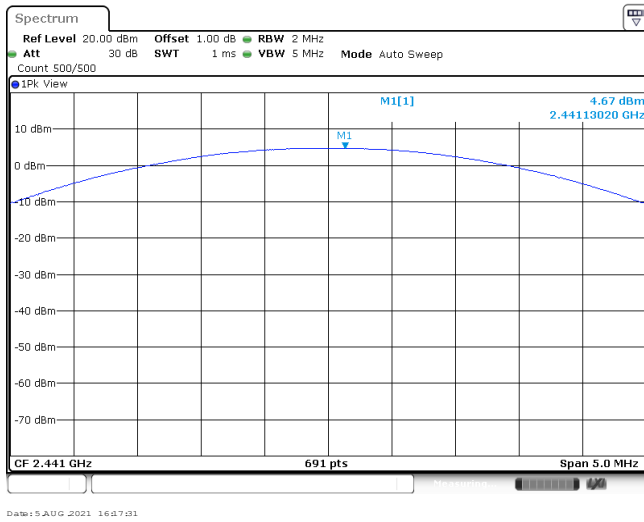
Modulation Type:

$\pi/4$ DQPSK

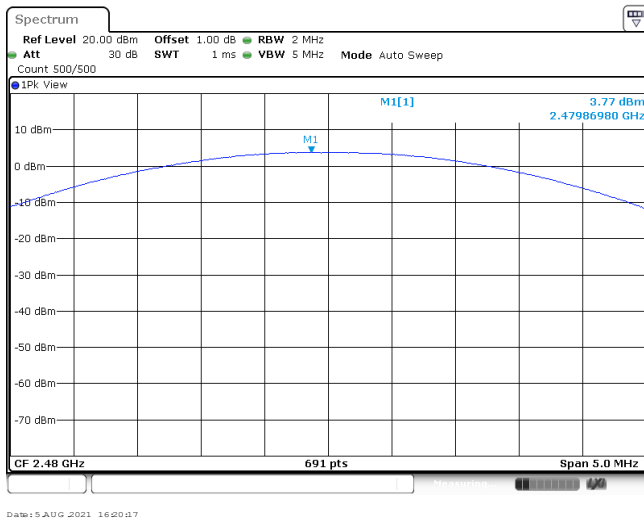
CH00



CH39

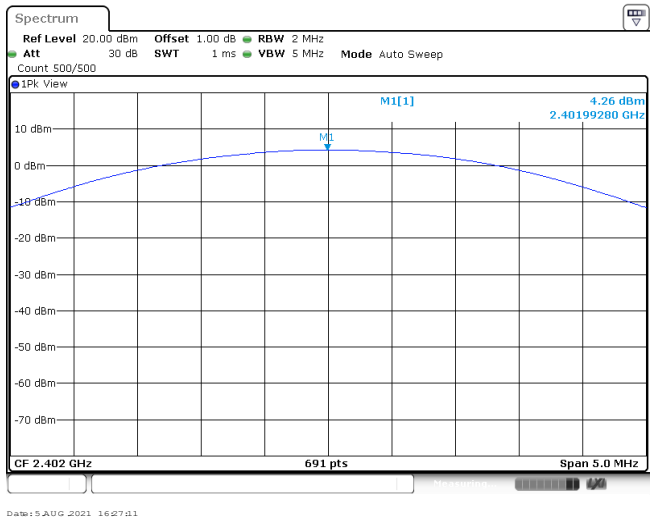


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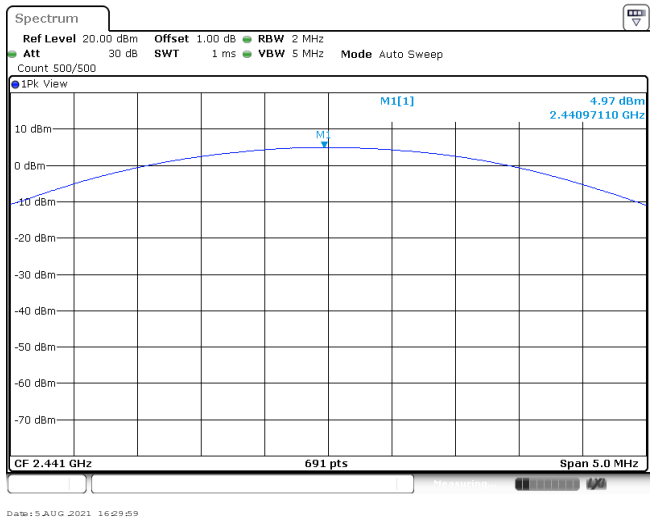


Modulation Type: 8DPSK

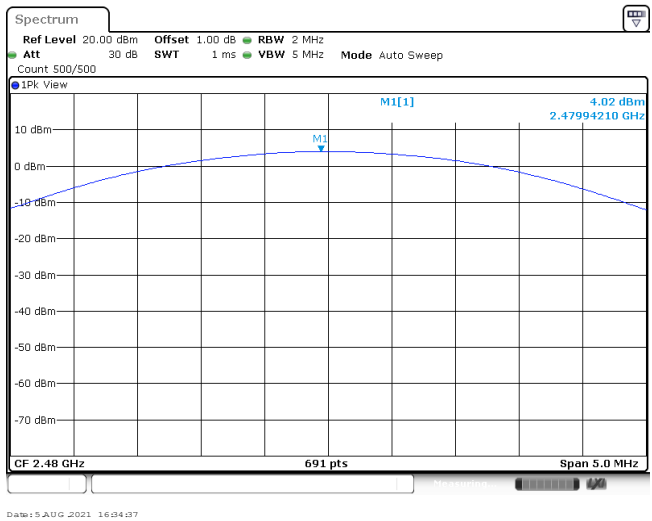
CH00



CH39



CH78

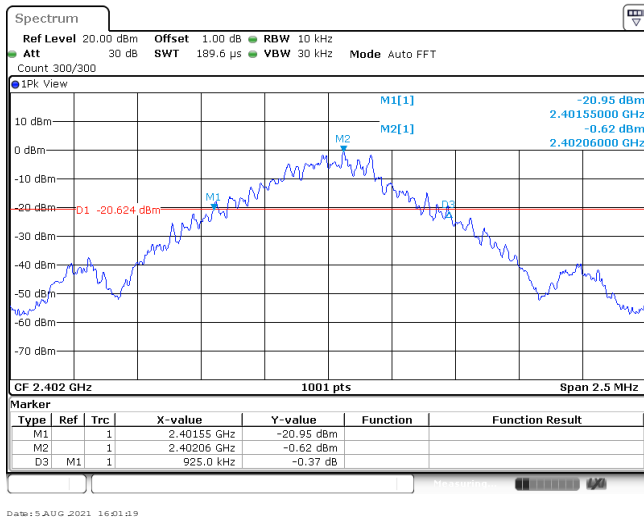


Appendix B : 20 dB Bandwidth

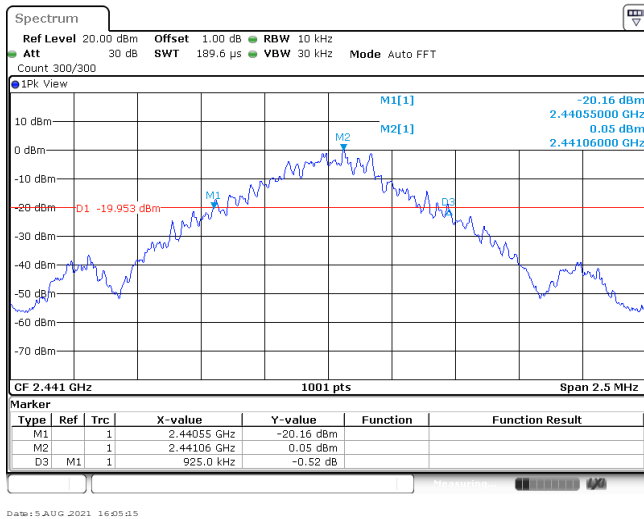
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	925.00		
	78	925.00		
$\pi/4$ DQPSK	00	1282.50	-	Pass
	39	1282.50		
	78	1285.00		
8DPSK	00	1280.00	-	Pass
	39	1280.00		
	78	1280.00		

Modulation Type: GFSK

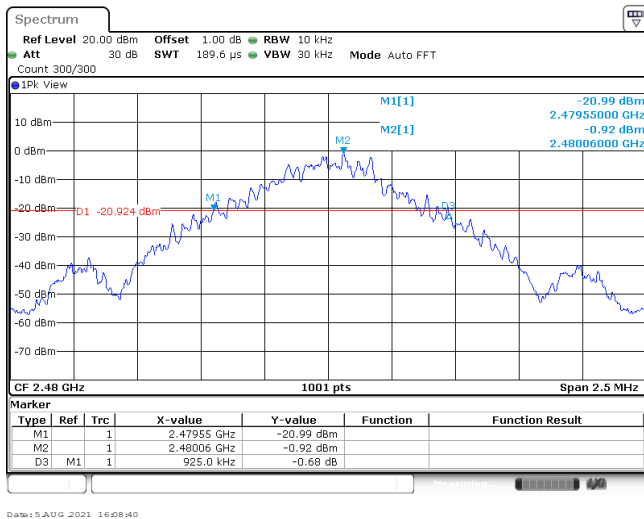
CH00



CH39

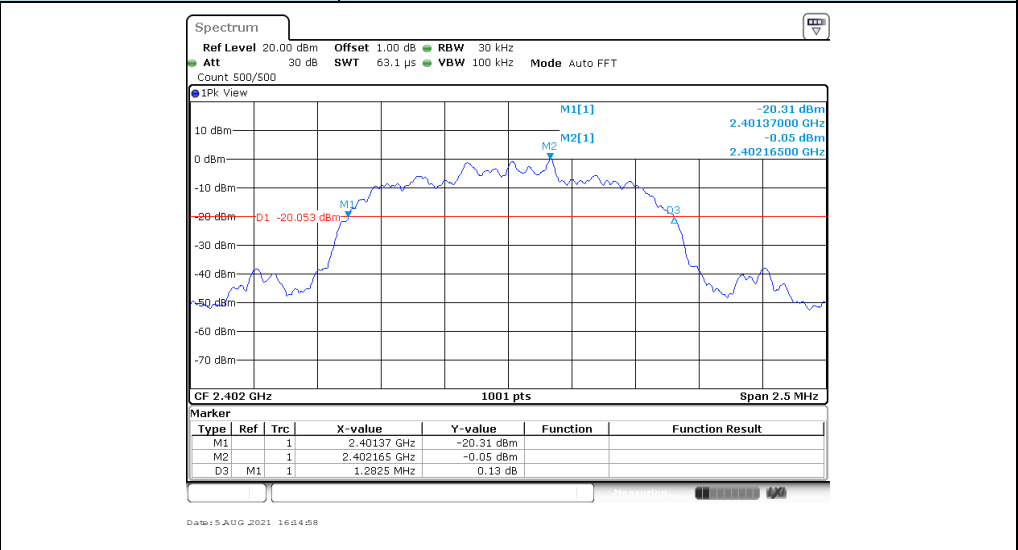


CH78

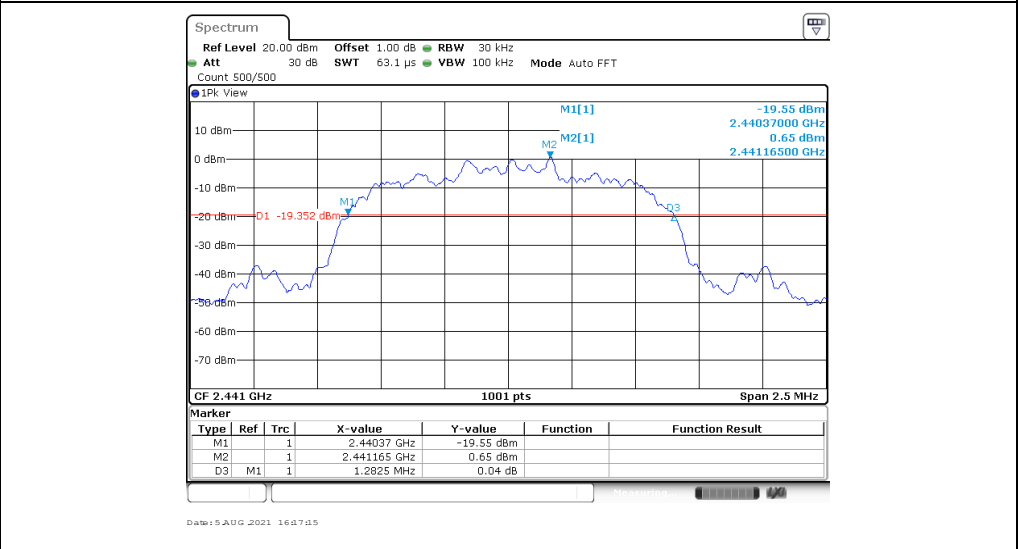


Modulation Type: **$\pi/4$ DQPSK**

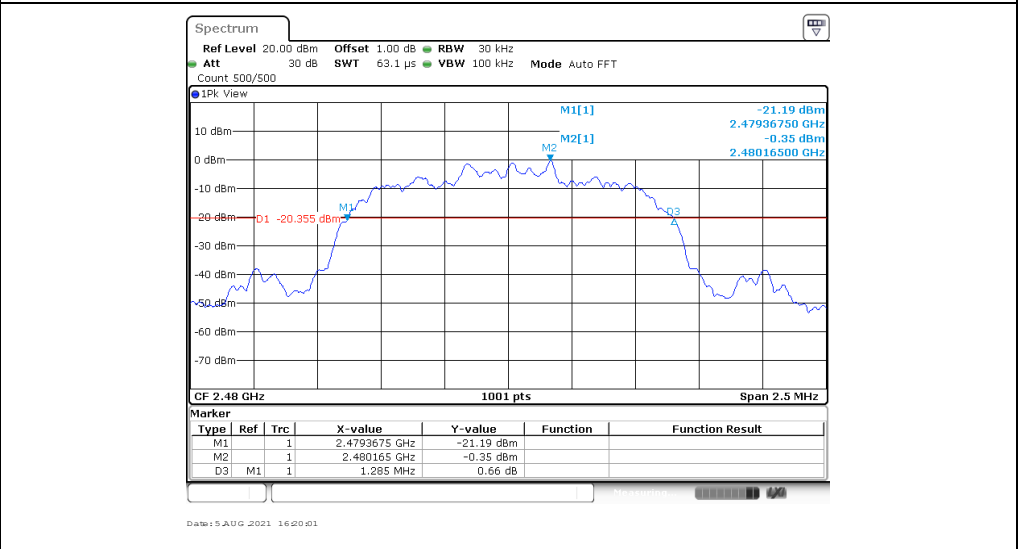
CH00



CH39

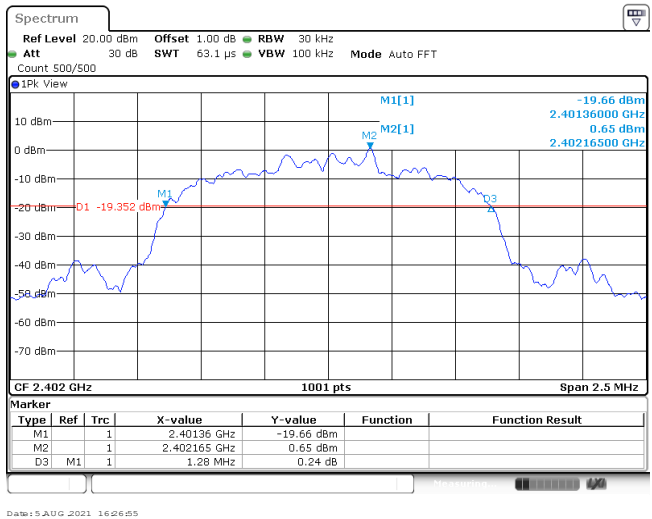


CH78

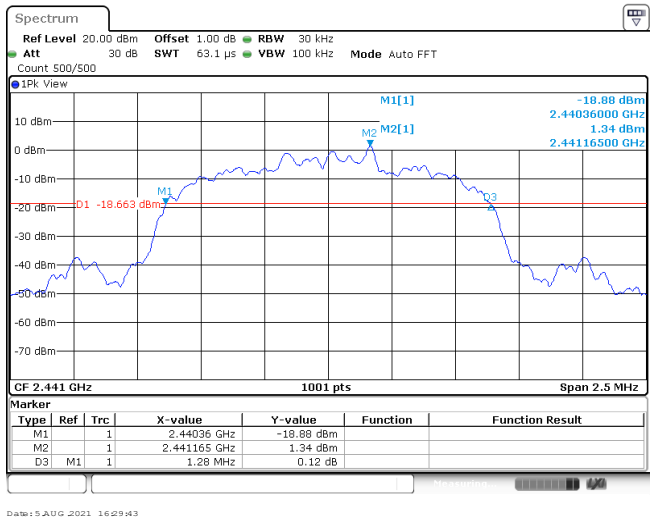


Modulation Type: 8DPSK

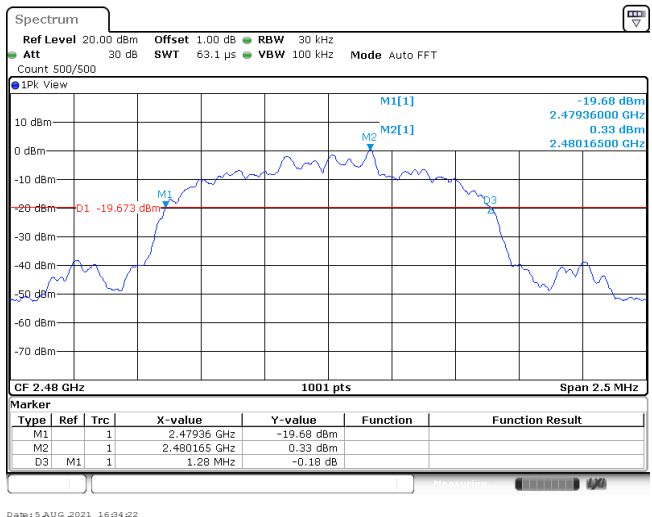
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.93	-	Pass
	39	0.90		
	78	0.90		
$\pi/4$ DQPSK	00	1.16	-	Pass
	39	1.16		
	78	1.16		
8DPSK	00	1.16	-	Pass
	39	1.16		
	78	1.16		

Modulation Type: GFSK	
CH00	<p>Spectrum</p> <p>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 300/300</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 1.74 dBm 2.40216480 GHz 934.065934066 kHz</p> <p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 5 AUG 2021 16:01:57</p>
CH39	<p>Spectrum</p> <p>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 300/300</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 2.43 dBm 2.44116480 GHz 896.603396603 kHz</p> <p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 5 AUG 2021 16:05:23</p>
CH78	<p>Spectrum</p> <p>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 300/300</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 1.44 dBm 2.48016480 GHz 899.100899101 kHz</p> <p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 5 AUG 2021 16:08:47</p>

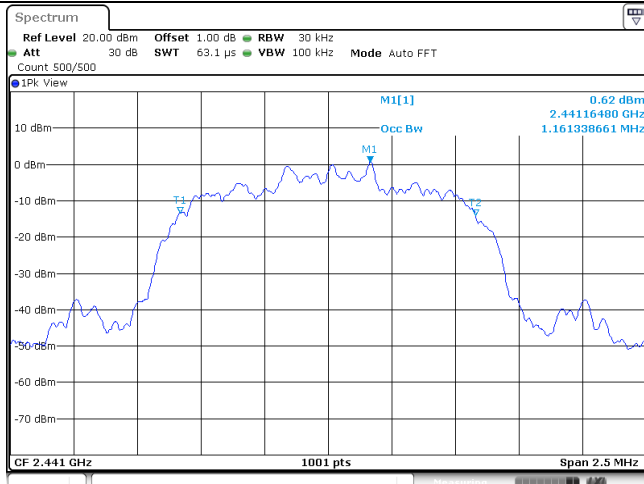
Modulation Type: **π /4DQPSK**

CH00



Date: 5 AUG 2021 16:25:05

CH39



Date: 5 AUG 2021 16:27:23

CH78



Date: 5 AUG 2021 16:29:08

Modulation Type:

8DPSK

CH00



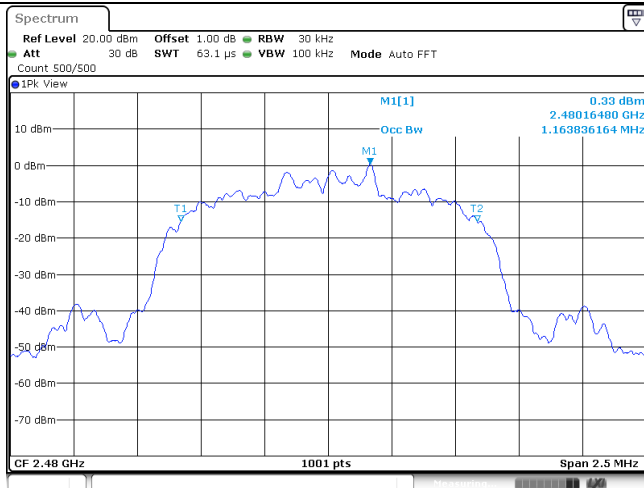
Date: 5 AUG 2021 16:27:02

CH39



Date: 5 AUG 2021 16:29:51

CH78



Date: 5 AUG 2021 16:34:29

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥925.00	Pass
$\pi/4$ DQPSK	39	1.00	≥856.67	Pass
8DPSK	39	1.00	≥853.33	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.

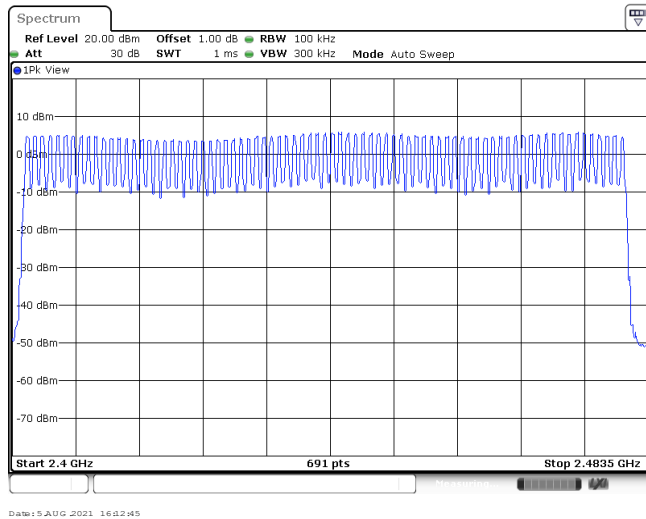
8DPSK limit = $2/3$ * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

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

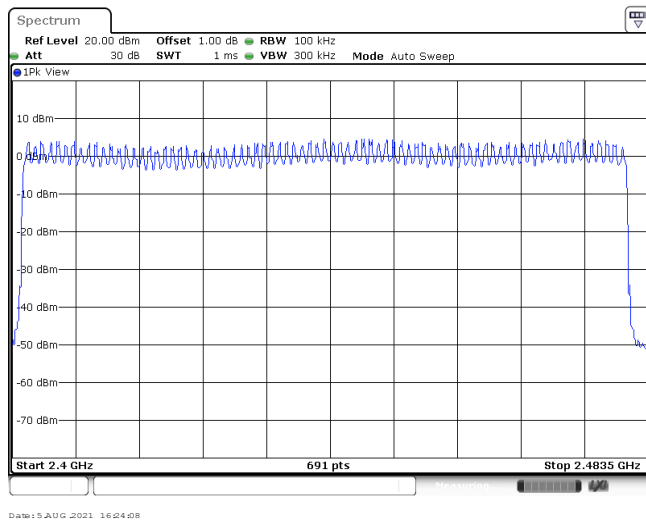
Appendix E: Hopping Channel Number

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

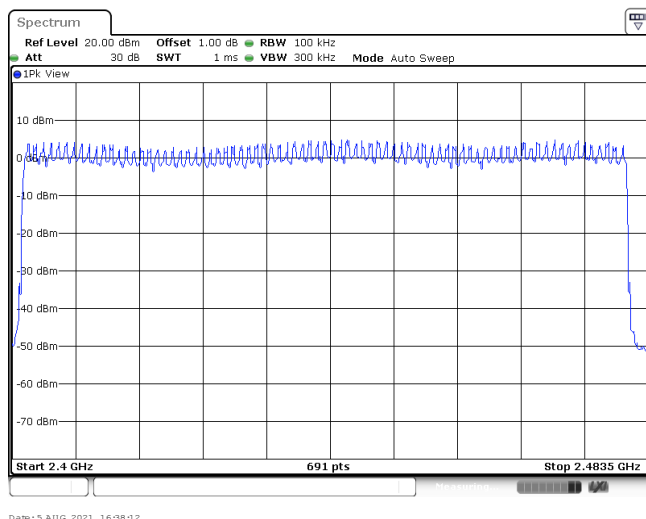
GFSK



$\pi/4$ DQPSK



8DPSK

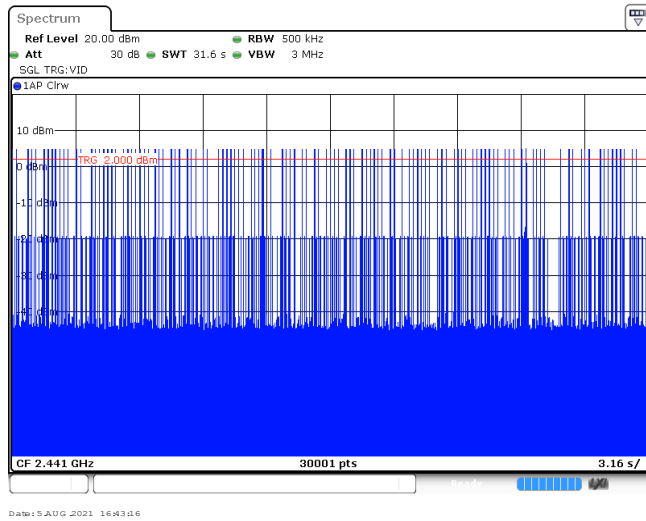


Appendix F: Dwell Time

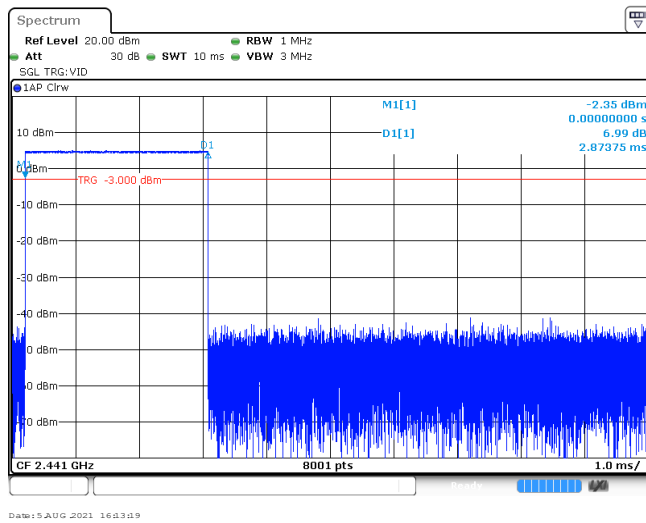
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.37	314	0.12	≤ 0.40	Pass
	DH3	1.63	158	0.26		
	DH5	2.87	107	0.31		
π/4DQPSK	2DH1	0.38	314	0.12	≤ 0.40	Pass
	2DH3	1.63	160	0.26		
	2DH5	2.88	108	0.31		
8DPSK	3DH1	0.38	314	0.12	≤ 0.40	Pass
	3DH3	1.63	160	0.26		
	3DH5	2.88	104	0.30		

Modulation Type: GFSK	
DH1 Burst width	<p> Spectrum Ref Level 20.00 dBm RBW 1 MHz Att 30 dB VSW 10 ms VBW 3 MHz SGL TRG:VID 1AP Clrw M1[1] -4.04 dBm D1[1] -1.25 μs TRG 2.000 dBm 8.80 dB 368.75 μs CF 2.441 GHz 8001 pts 1.0 ms/ </p> <p>Date: 5.AUG.2021 16:41:54</p>
DH1 Burst number	<p> Spectrum Ref Level 20.00 dBm RBW 500 kHz Att 30 dB VSW 31.6 s VBW 3 MHz SGL TRG:VID 1AP Clrw TRG 2.000 dBm CF 2.441 GHz 30001 pts 3.16 s/ </p> <p>Date: 5.AUG.2021 16:42:17</p>
DH3 Burst width	<p> Spectrum Ref Level 20.00 dBm RBW 1 MHz Att 30 dB VSW 10 ms VBW 3 MHz SGL TRG:VID 1AP Clrw M1[1] -2.18 dBm D1[1] -1.25 μs TRG 2.000 dBm 6.88 dB 1.62500 ms CF 2.441 GHz 8001 pts 1.0 ms/ </p> <p>Date: 5.AUG.2021 16:42:43</p>

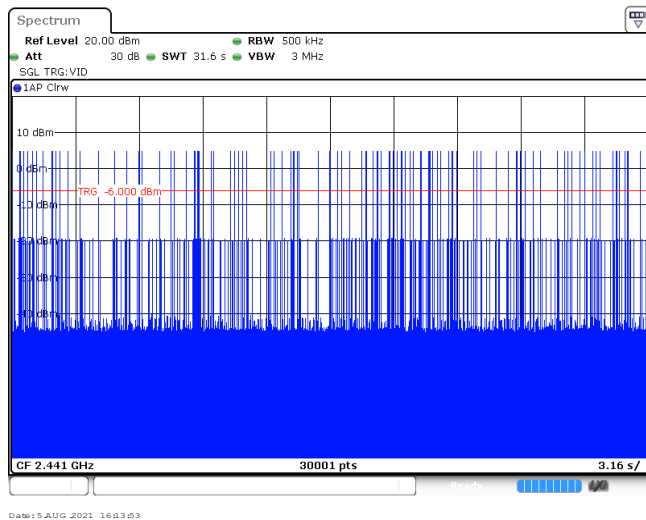
DH3
Burst number



DH5
Burst width

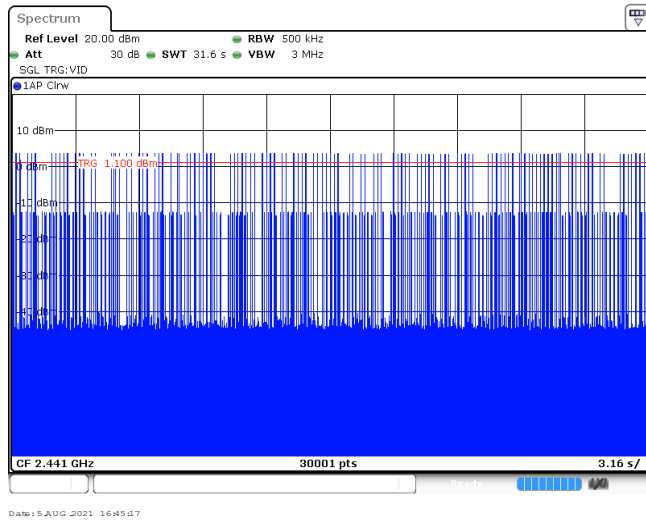


DH5
Burst number

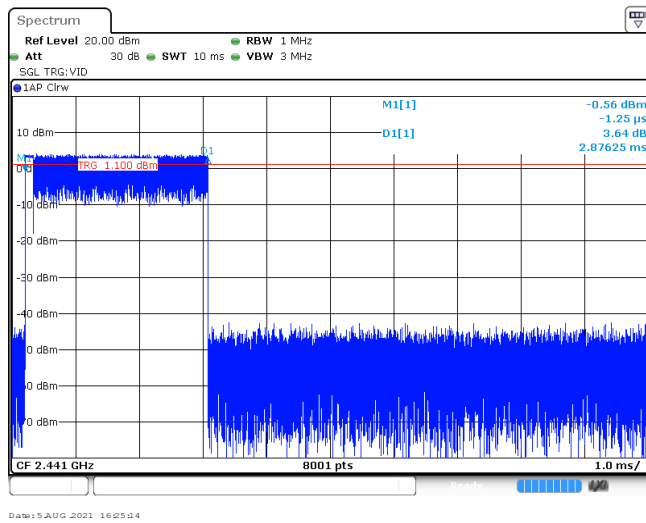


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 5.AUG.2021 16:43:47</p>
2DH1 Burst number	<p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 5.AUG.2021 16:44:20</p>
2DH3 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 5.AUG.2021 16:44:44</p>

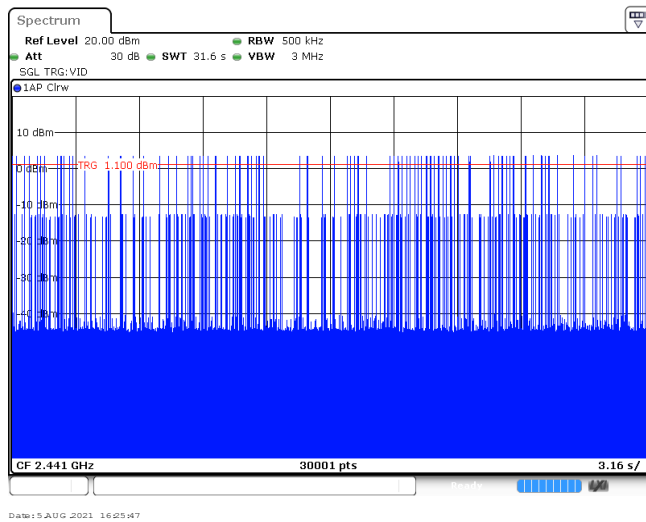
2DH3
Burst number



2DH5
Burst width

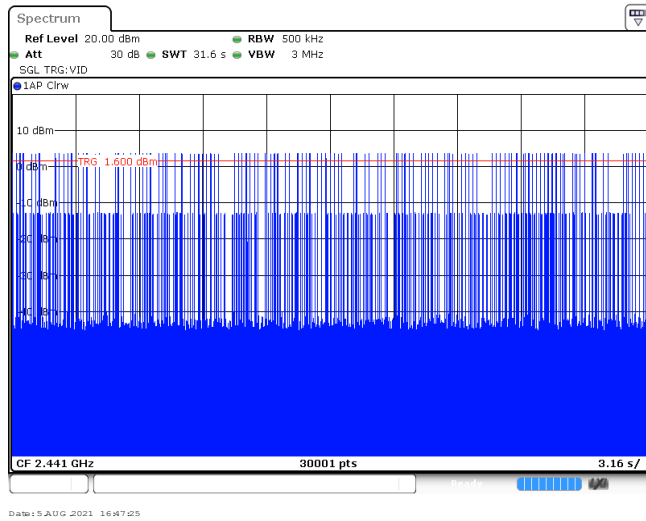


2DH5
Burst number

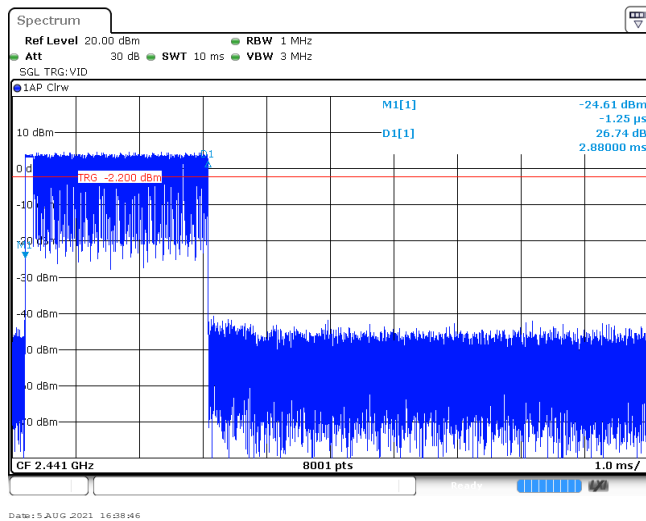


Modulation Type: 8DPSK	
3DH1 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 5.AUG.2021 16:45:54</p>
3DH1 Burst number	<p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 5.AUG.2021 16:46:17</p>
3DH3 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 5.AUG.2021 16:46:52</p>

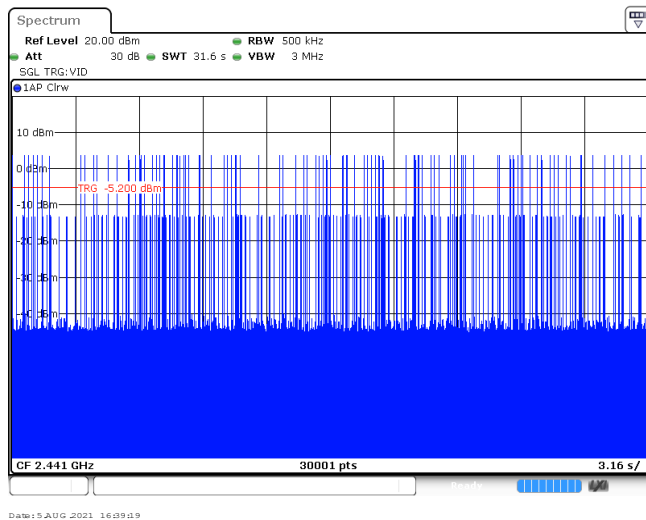
3DH3
Burst number



3DH5
Burst width



3DH5
Burst number

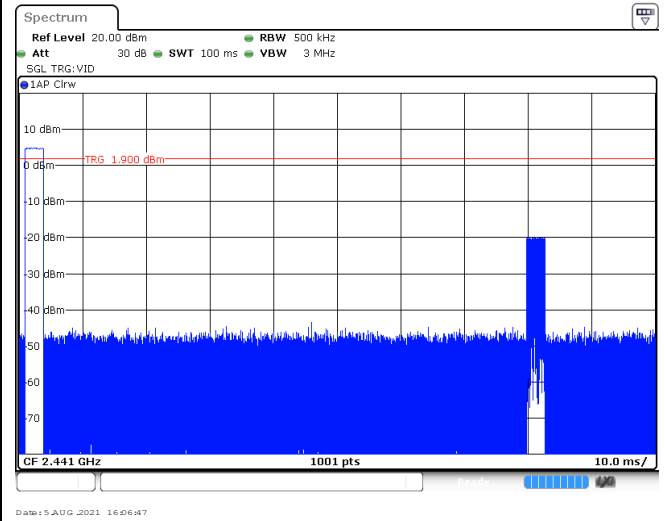
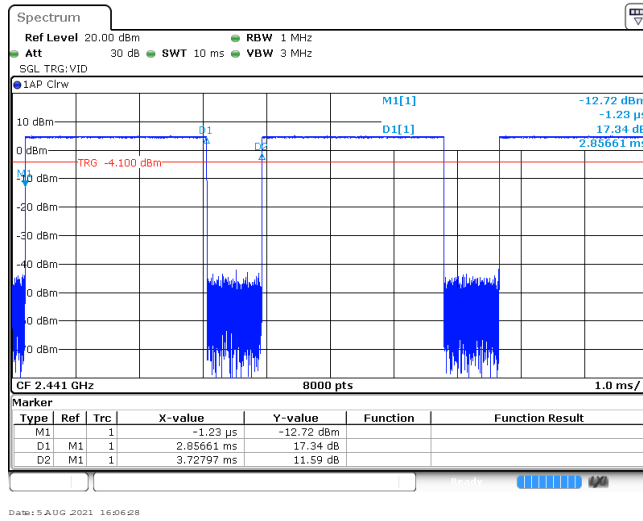


Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

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

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	2	-24.85
$\pi/4$ DQPSK	2441	2.86	100	2	-24.85
8DPSK	2441	2.86	100	3	-21.33

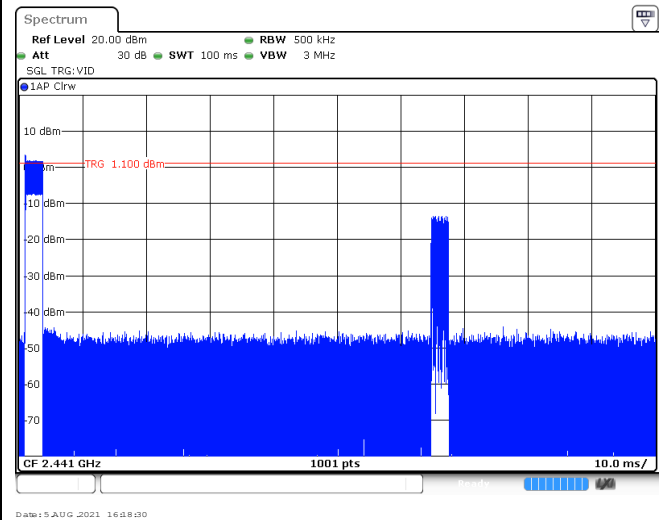
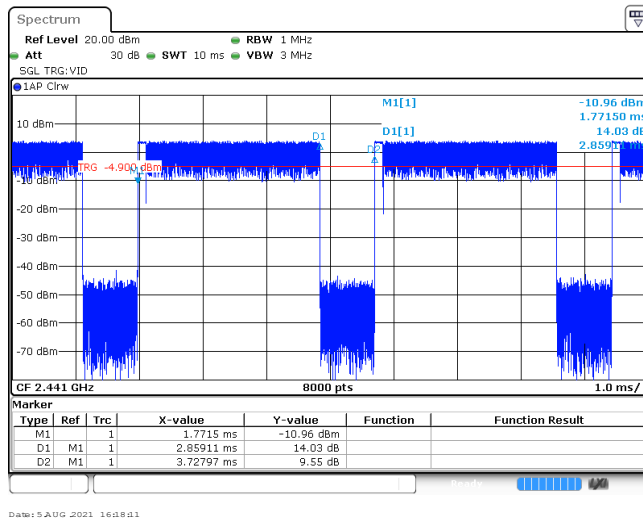
GFSK



T_{on} time for single burst

Burst Quantity

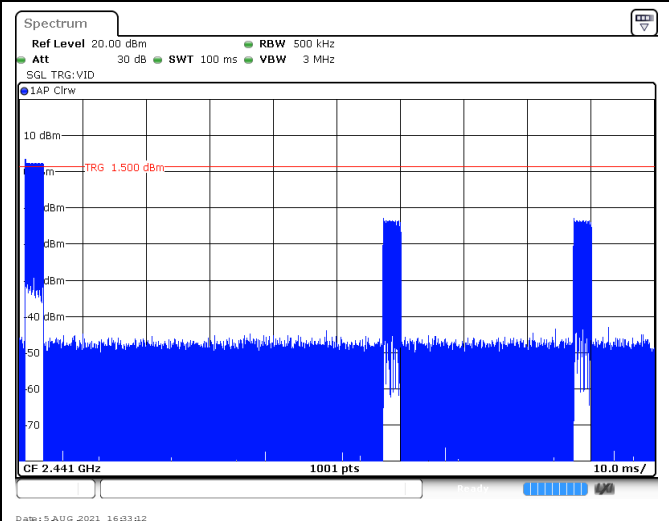
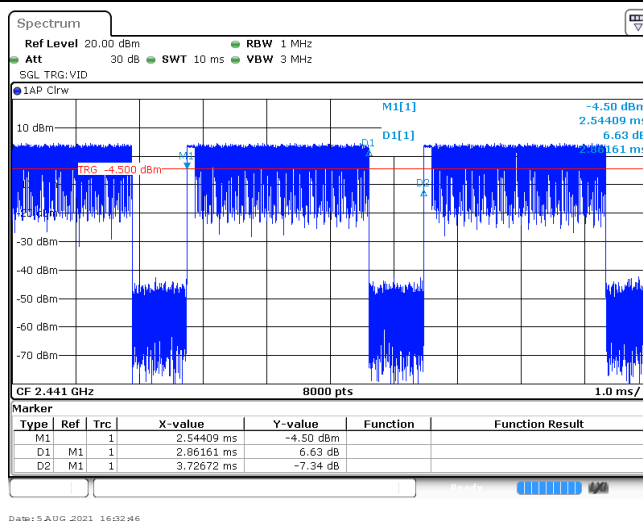
$\pi/4$ DQPSK



T_{on} time for single burst

Burst Quantity

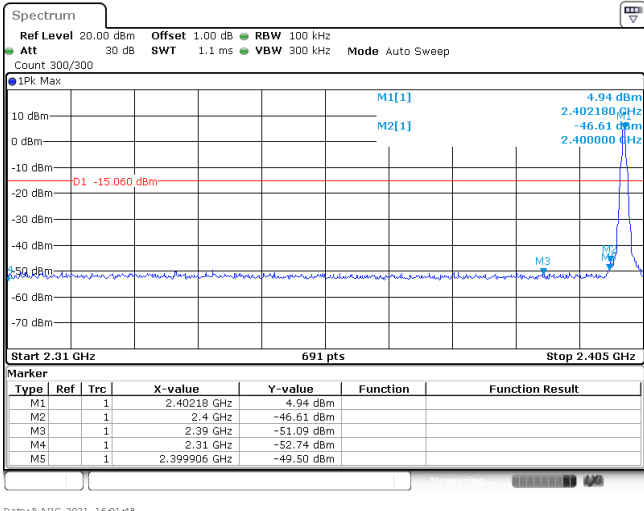
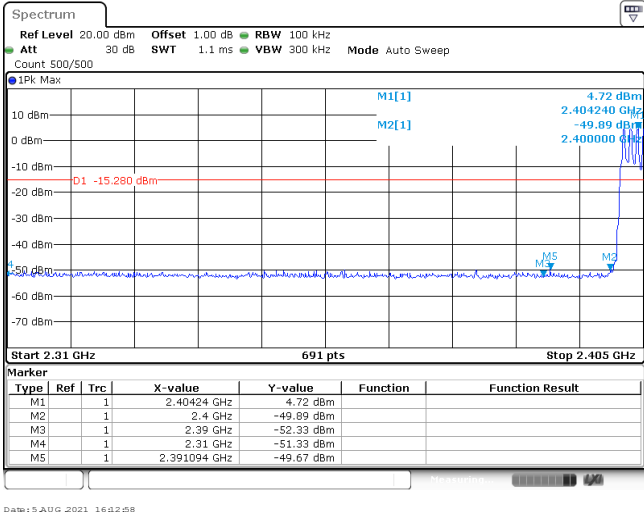
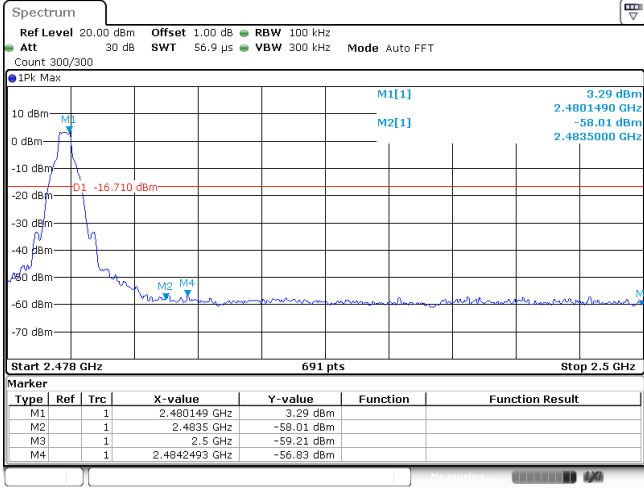
8DPSK



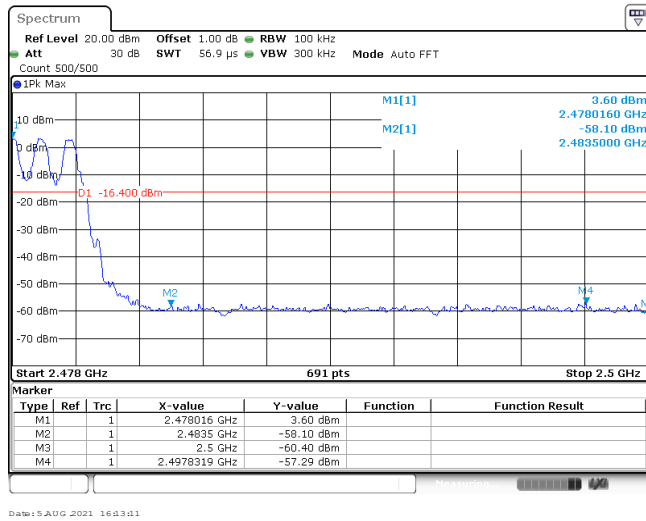
T_{on} time for single burst

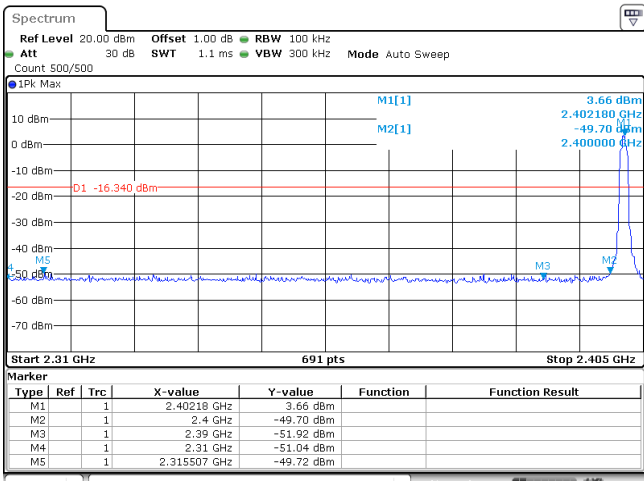
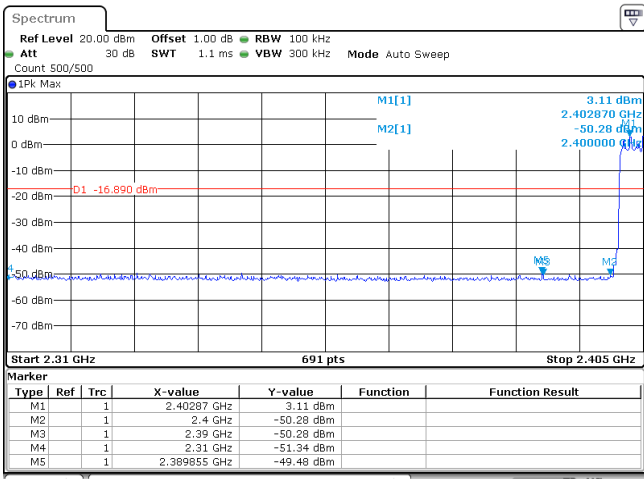
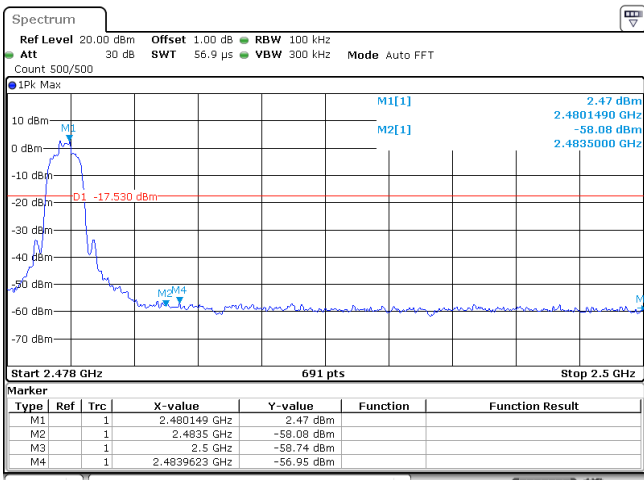
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

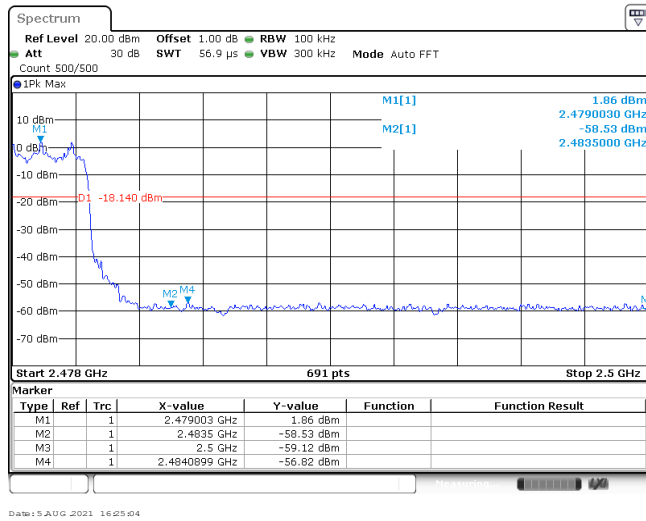
Test Item:	Band edge	Modulation type:	GFSK																																																
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="686 728 1332 817"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.40218 GHz</td> <td>4.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-46.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-51.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-52.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.399906 GHz</td> <td>-49.50 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 5 AUG 2021 16:01:48</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40218 GHz	4.94 dBm			M2	1			2.4 GHz	-46.61 dBm			M3	1			2.39 GHz	-51.09 dBm			M4	1			2.31 GHz	-52.74 dBm			M5	1			2.399906 GHz	-49.50 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
M1	1			2.40218 GHz	4.94 dBm																																														
M2	1			2.4 GHz	-46.61 dBm																																														
M3	1			2.39 GHz	-51.09 dBm																																														
M4	1			2.31 GHz	-52.74 dBm																																														
M5	1			2.399906 GHz	-49.50 dBm																																														
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="686 1265 1332 1355"> <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>2.40424 GHz</td> <td>4.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-49.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-52.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-51.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.391094 GHz</td> <td>-49.67 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 5 AUG 2021 16:02:58</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40424 GHz	4.72 dBm			M2	1			2.4 GHz	-49.89 dBm			M3	1			2.39 GHz	-52.33 dBm			M4	1			2.31 GHz	-51.33 dBm			M5	1			2.391094 GHz	-49.67 dBm		
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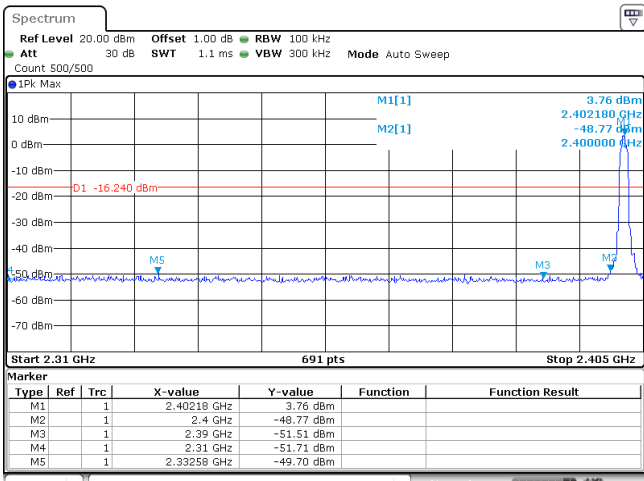
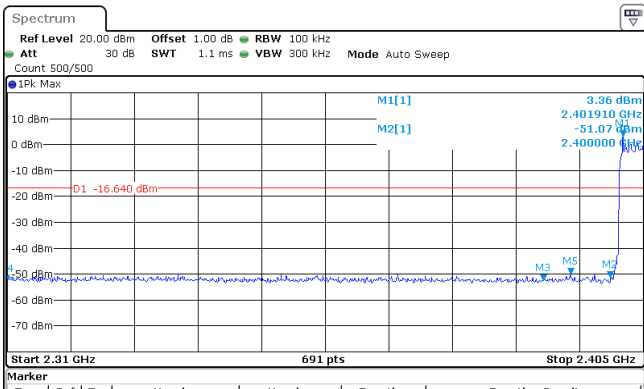
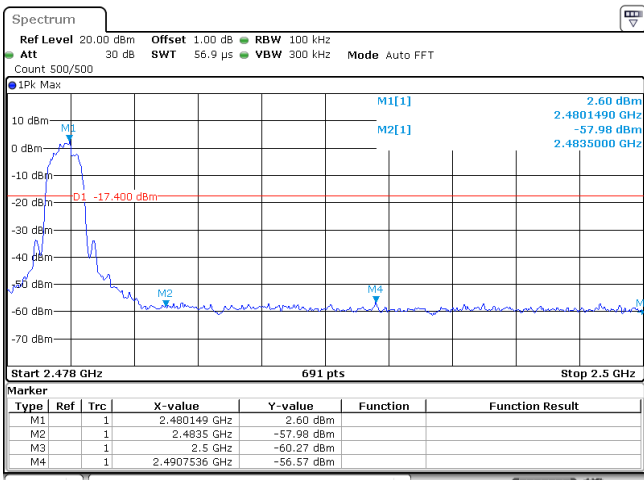
CH78
Hopping mode



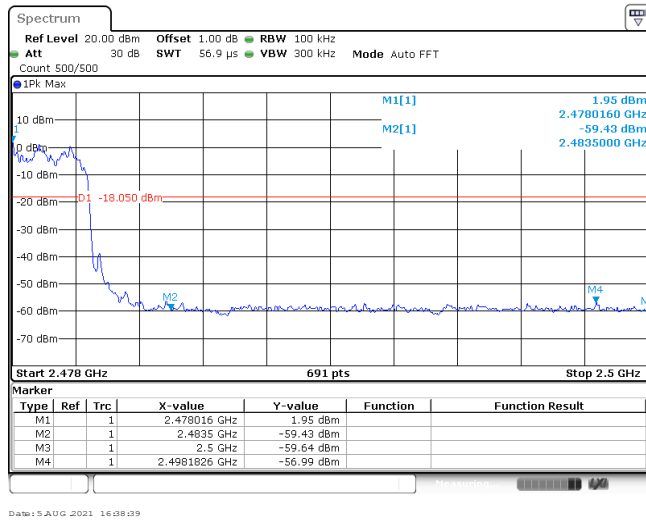
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																																
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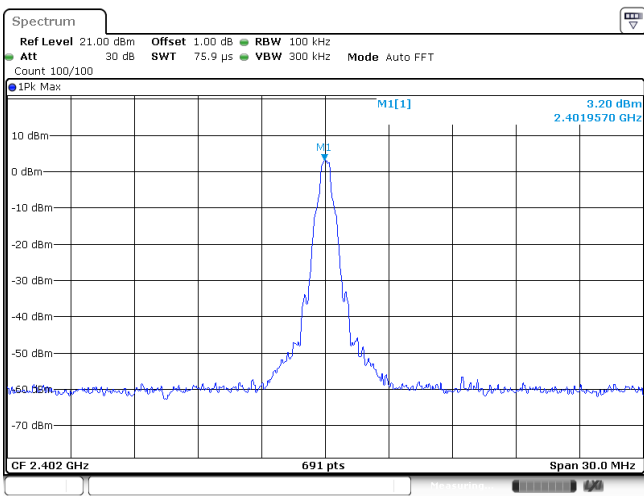
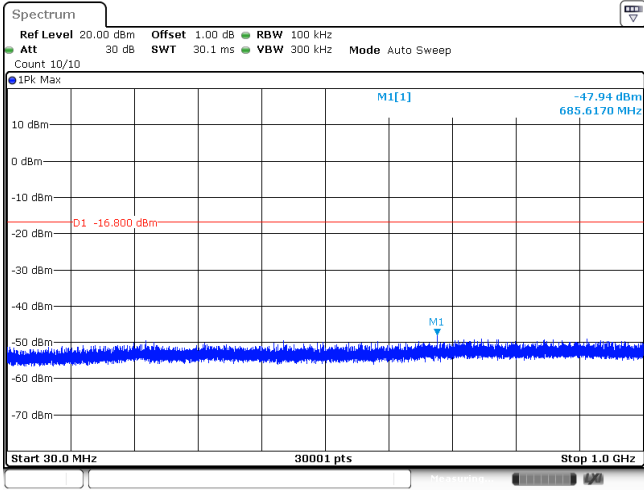
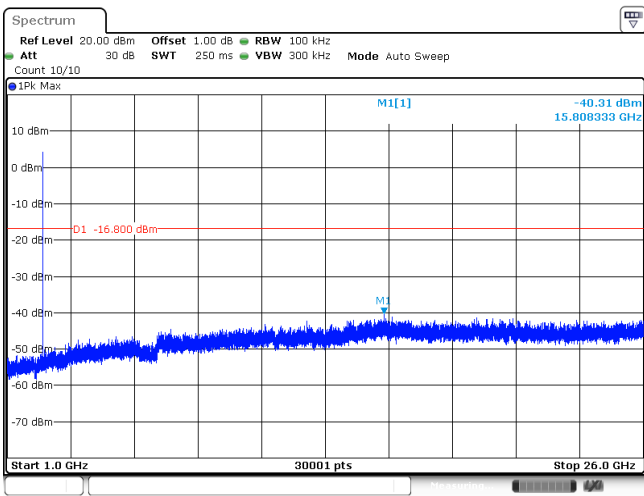
CH78
Hopping mode



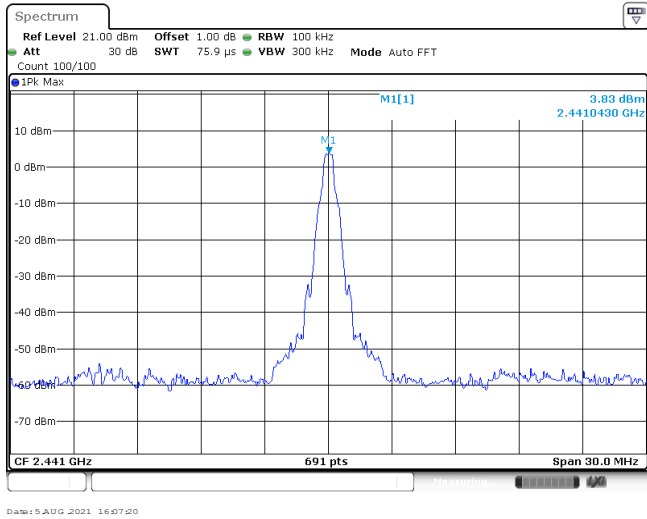
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CH78
Hoppig mode

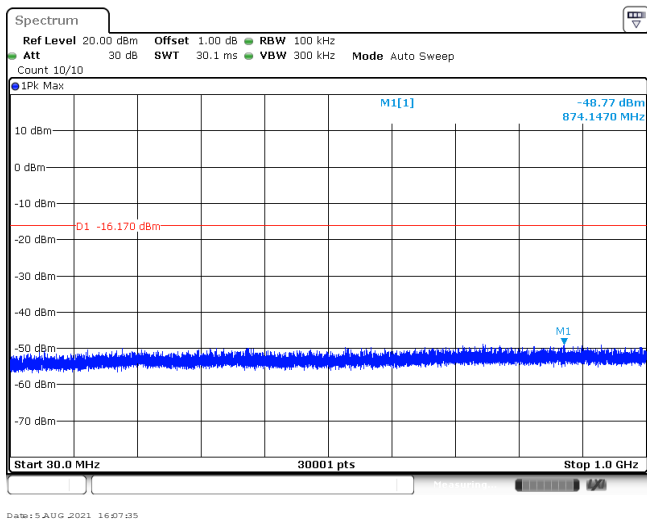


Test Item:	Spurious Emission	Modulation type:	GFSK
<p>CH00 Reference level</p>	 <p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 3.20 dBm 2.4019570 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 5 AUG 2021 16:01:53</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Spectrum 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 1Pk Max M1[1] -47.94 dBm 695.6170 MHz D1 -16.800 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 5 AUG 2021 16:02:08</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Spectrum 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 1Pk Max M1[1] -40.31 dBm 15.808333 GHz D1 -16.800 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 5 AUG 2021 16:02:24</p>		

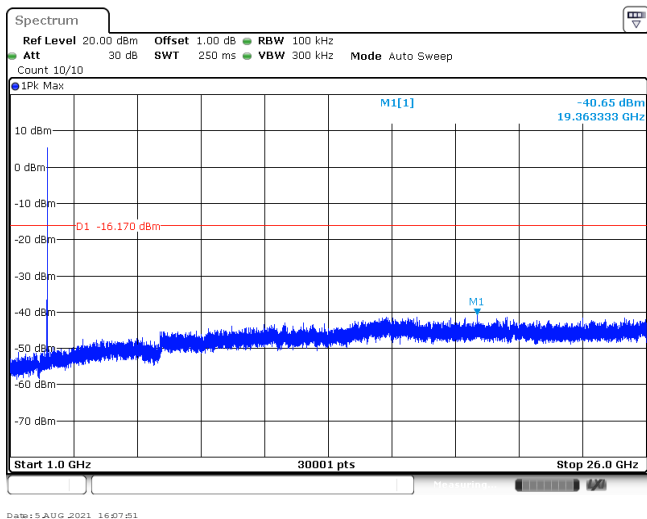
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Reference level



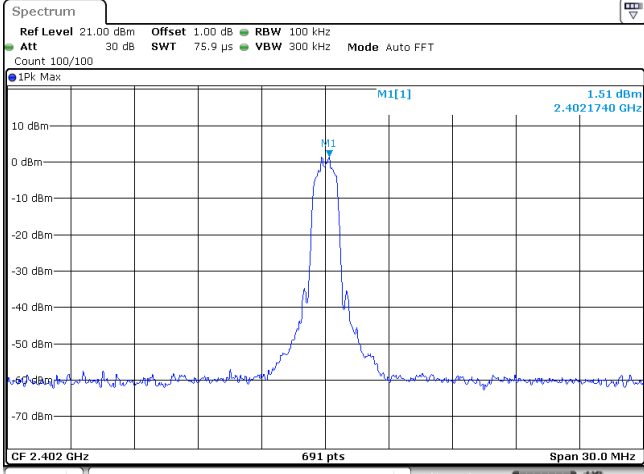
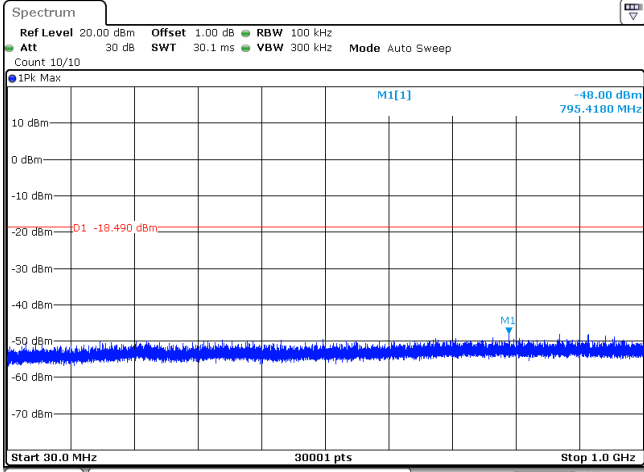
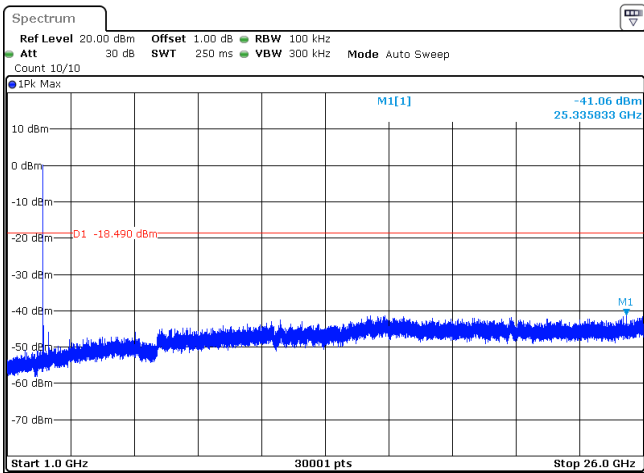
CH39
30MHz~1000MHz



CH39
1GHz~26GHz

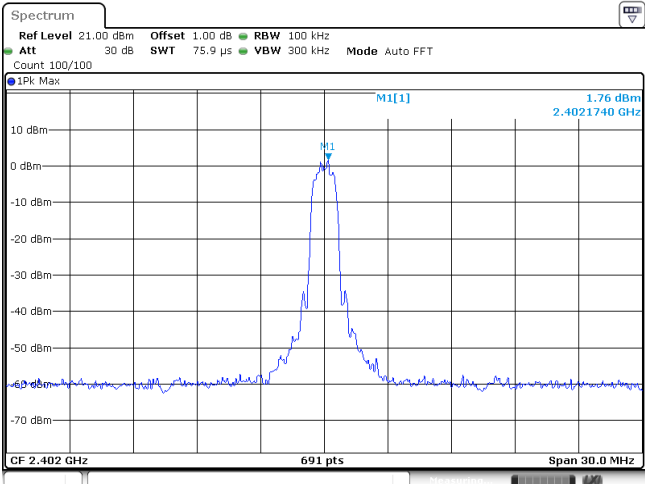
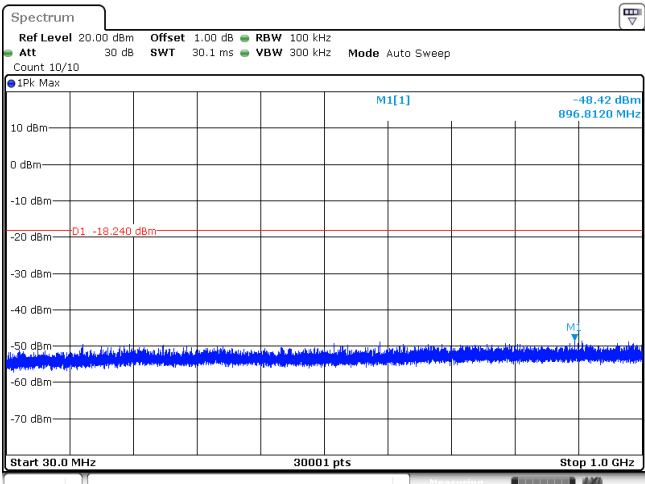
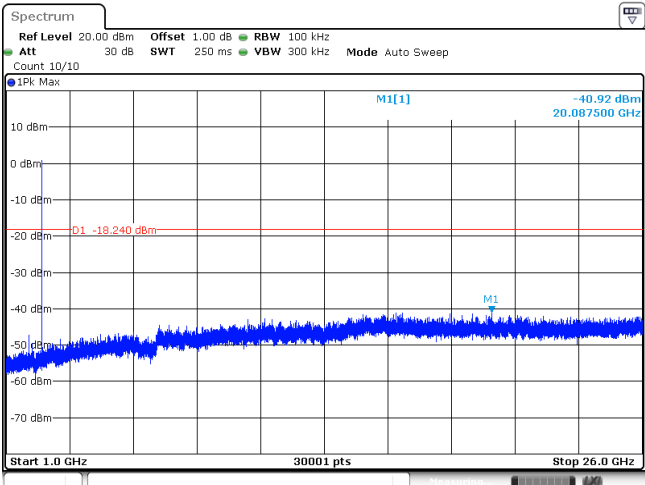


<p>CH78 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] 3.03 dBm 2.480000 GHz CF 2.48 GHz 691 pts Span 30.0 MHz Date: 5 AUG 2021 16:09:06</p>
<p>CH78 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -48.50 dBm 966.8430 MHz D1 -16.970 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 5 AUG 2021 16:09:51</p>
<p>CH78 1GHz~26GHz</p>	<p>Spectrum 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 IPK Max M1[1] -40.98 dBm 16.175000 GHz D1 -16.970 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 5 AUG 2021 16:00:07</p>

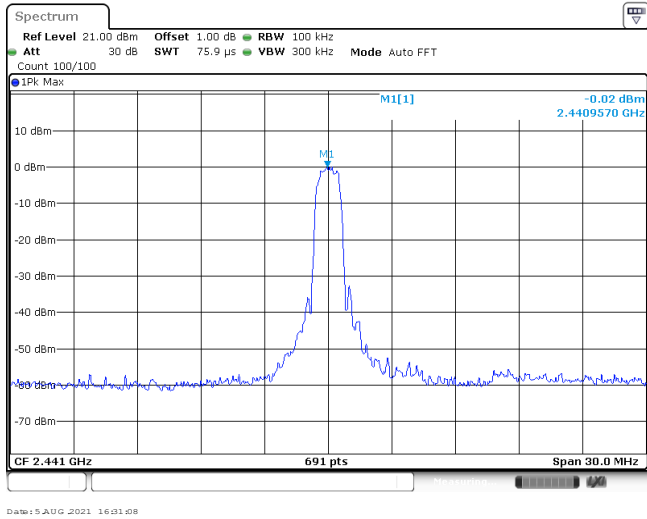
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 5 AUG 2021 16:26:08</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 5 AUG 2021 16:26:23</p>		

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

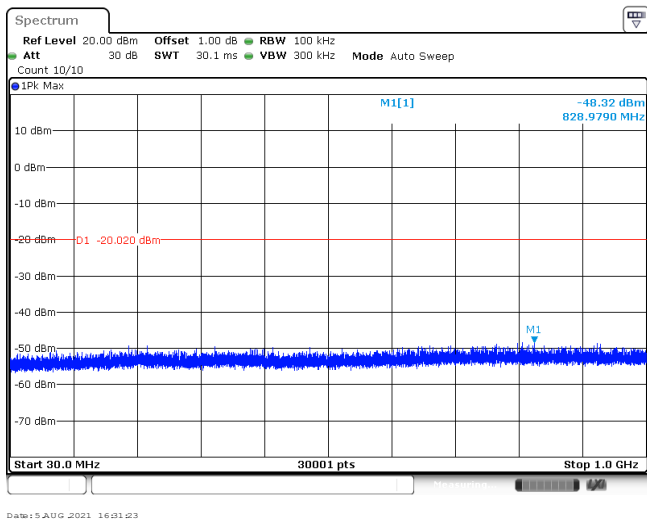
<p>CH78 Reference level</p>	
<p>CH78 30MHz~1000MHz</p>	
<p>CH78 1GHz~26GHz</p>	

Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>1Pk Max: 1.76 dBm @ 2.4021740 GHz</p> <p>CF 2.402 GHz, 691 pts, Span 30.0 MHz</p> <p>Date: 5 AUG 2021 16:28:07</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>1Pk Max: -48.42 dBm @ 896.8120 MHz</p> <p>D1: -18.240 dBm</p> <p>Start 30.0 MHz, 30001 pts, Stop 1.0 GHz</p> <p>Date: 5 AUG 2021 16:28:22</p>		
<p>CH00 1GHz~26GHz</p>	 <p>1Pk Max: -40.92 dBm @ 20.087500 GHz</p> <p>D1: -18.240 dBm</p> <p>Start 1.0 GHz, 30001 pts, Stop 26.0 GHz</p> <p>Date: 5 AUG 2021 16:28:28</p>		

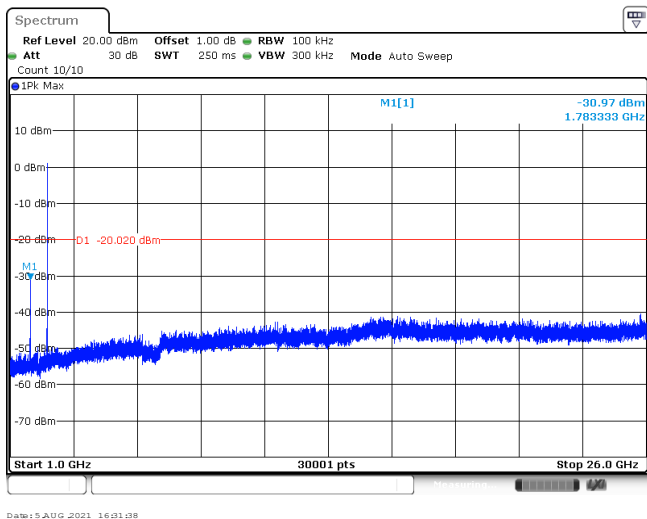
CH39
Reference level



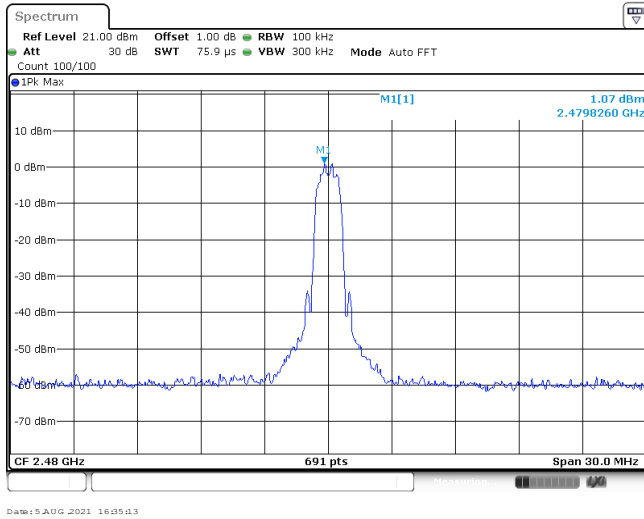
CH39
30MHz~1000MHz



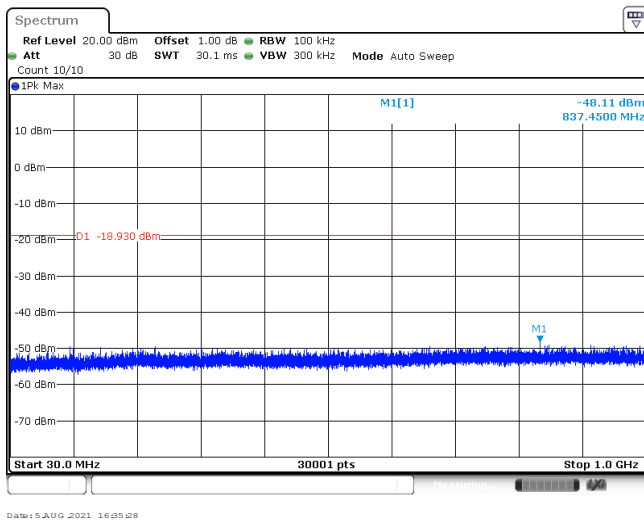
CH39
1GHz~26GHz



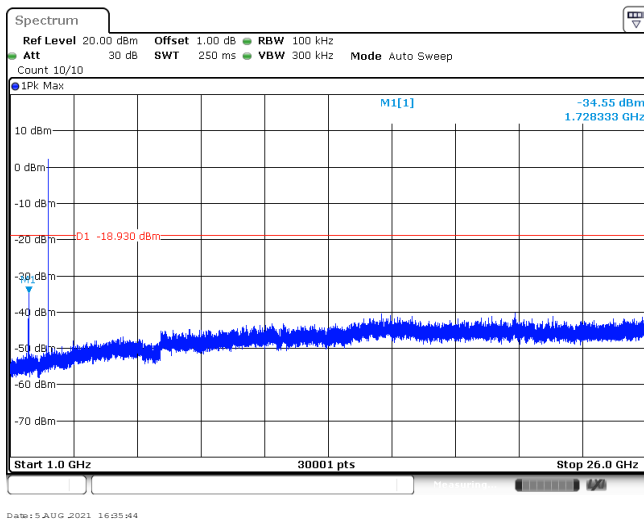
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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