

APPENDIX REPORT

Project No.	SHT2001035304EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20010353003	Model No.	DSJ-K9
Start test date	2020/2/28	Finish date	2020/2/28
Temperature	25°C	Humidity	50%
Test Engineer	Jinyue.Yan	Auditor	<i>William.wang</i>

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

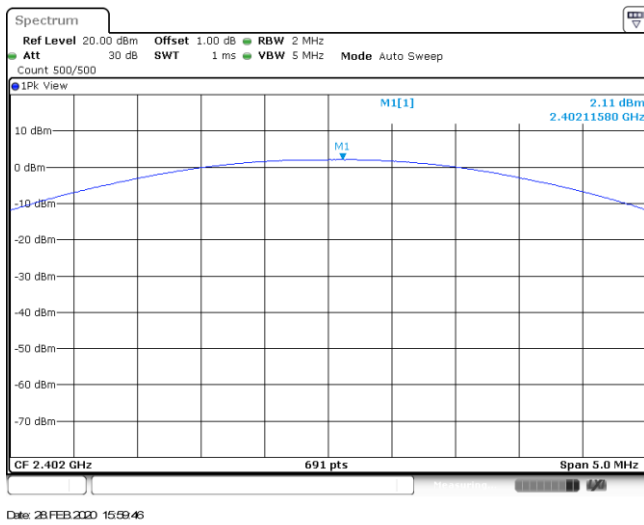
Appendix A: Peak Output Power

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	2.58	2.53	≤ 30.00	Pass
	39	5.29	5.21		
	78	2.72	2.66		
π/4DQPSK	00	2.11	1.61	≤ 21.00	Pass
	39	4.75	4.24		
	78	2.12	1.58		
8DPSK	00	2.16	1.61	≤ 21.00	Pass
	39	4.81	4.29		
	78	2.19	1.63		

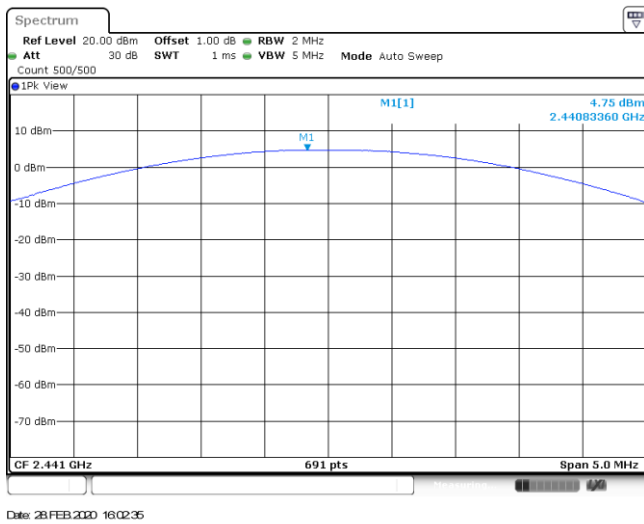
Modulation Type:		GFSK
CH00	<p>CF 2.402 GHz 691 pts Span 5.0 MHz</p> <p>Date: 28 FEB 2020 15:50:05</p>	
CH39	<p>CF 2.441 GHz 691 pts Span 5.0 MHz</p> <p>Date: 28 FEB 2020 15:53:13</p>	
CH78	<p>CF 2.48 GHz 691 pts Span 5.0 MHz</p> <p>Date: 28 FEB 2020 15:55:47</p>	

Modulation Type: $\pi/4$ DQPSK

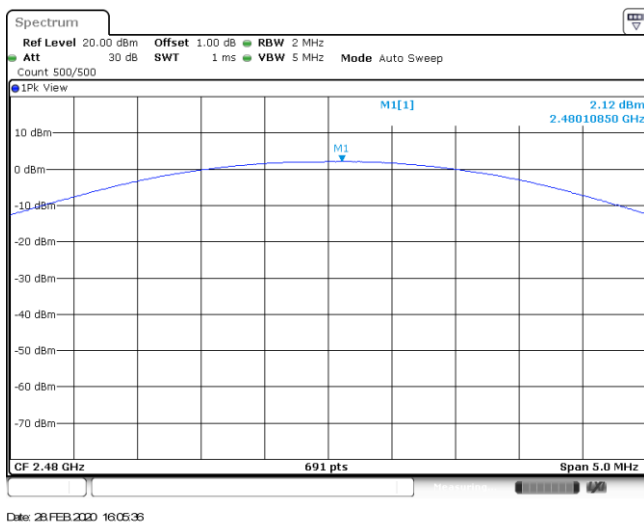
CH00



CH39

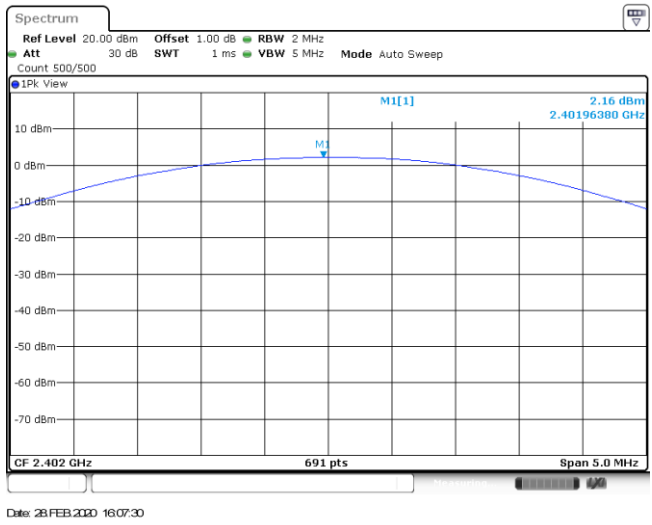


CH78

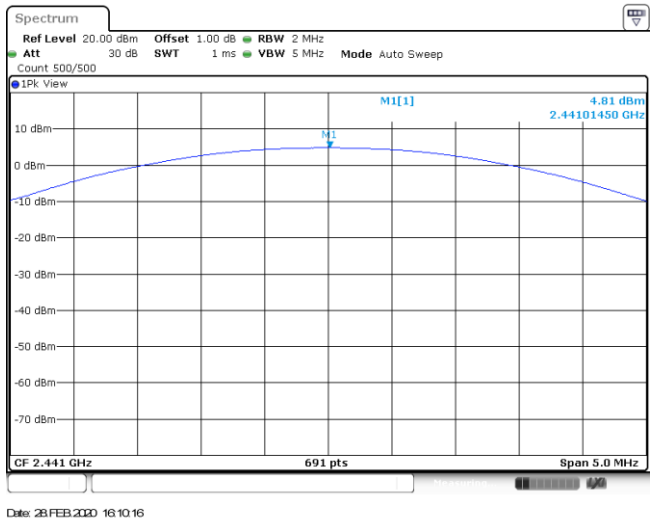


Modulation Type: 8DPSK

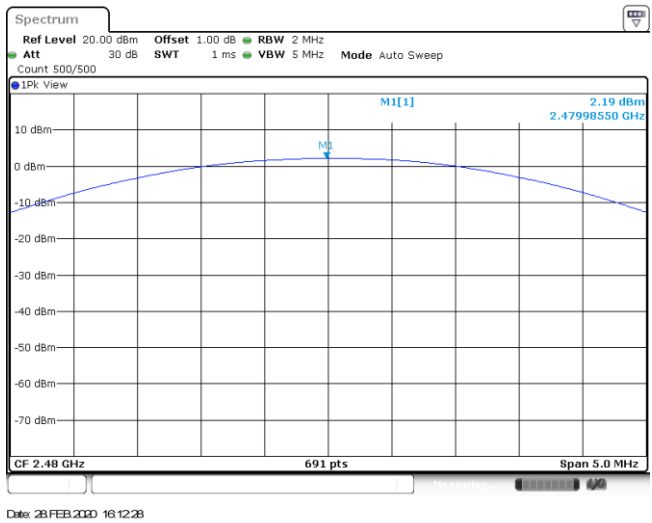
CH00



CH39



CH78

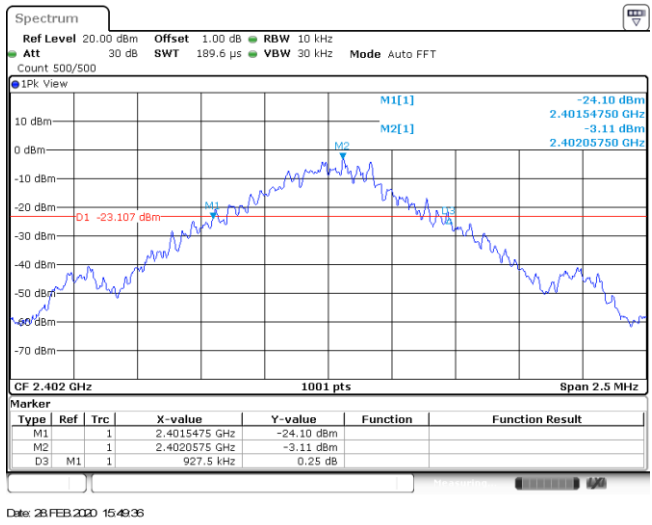


Appendix B : 20 dB Bandwidth

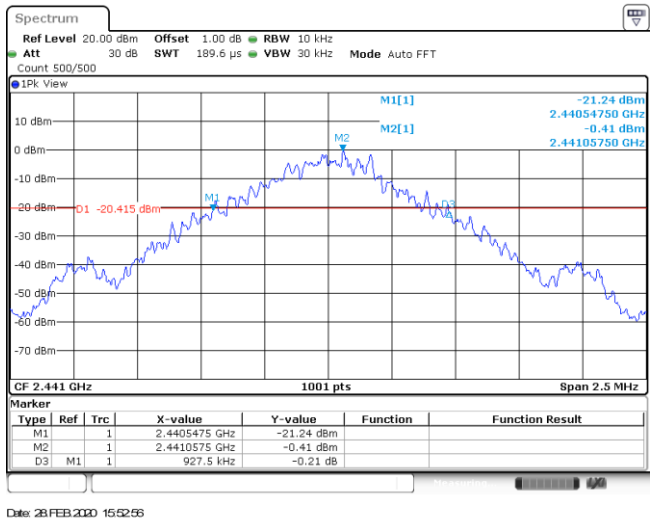
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	927.00	-	Pass
	39	927.00		
	78	927.00		
$\pi/4$ DQPSK	00	1305.00	-	Pass
	39	1305.00		
	78	1288.00		
8DPSK	00	1293.00	-	Pass
	39	1287.00		
	78	1287.00		

Modulation Type: GFSK

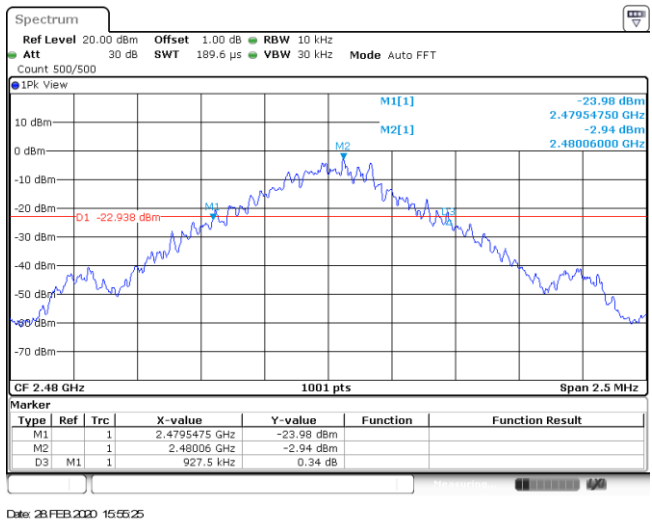
CH00



CH39

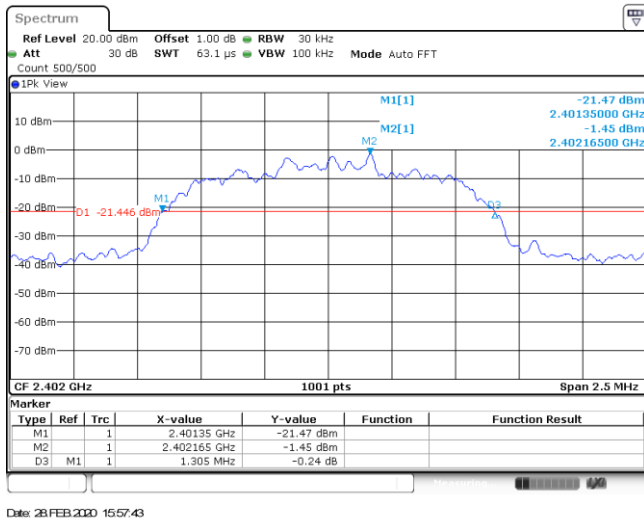


CH78

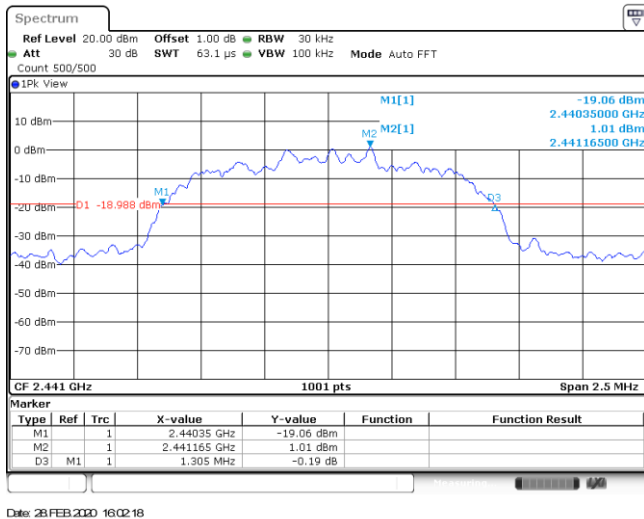


Modulation Type: $\pi/4$ DQPSK

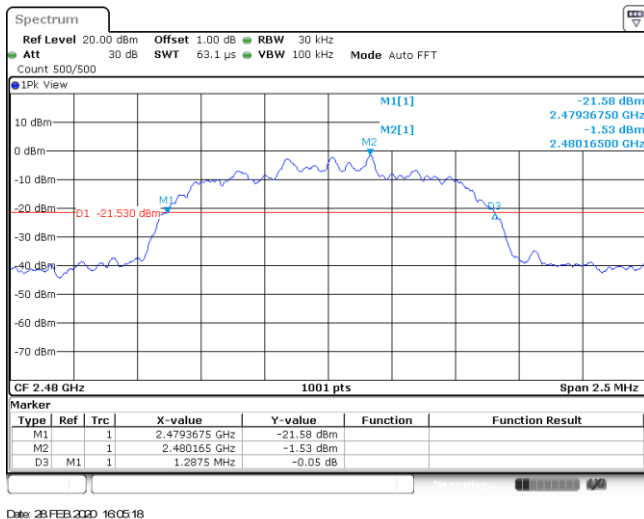
CH00



CH39

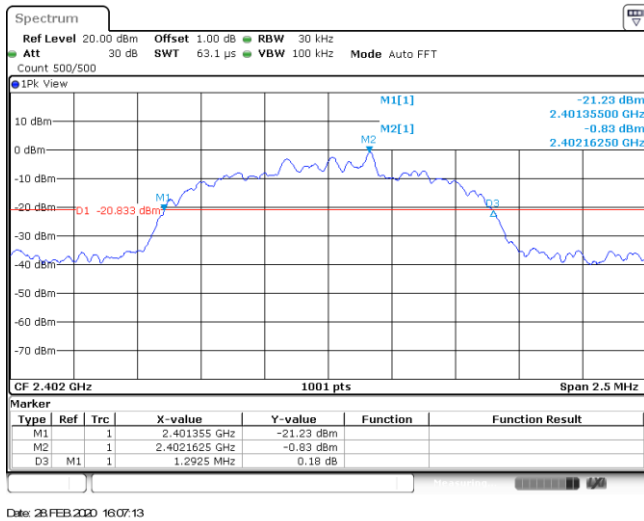


CH78

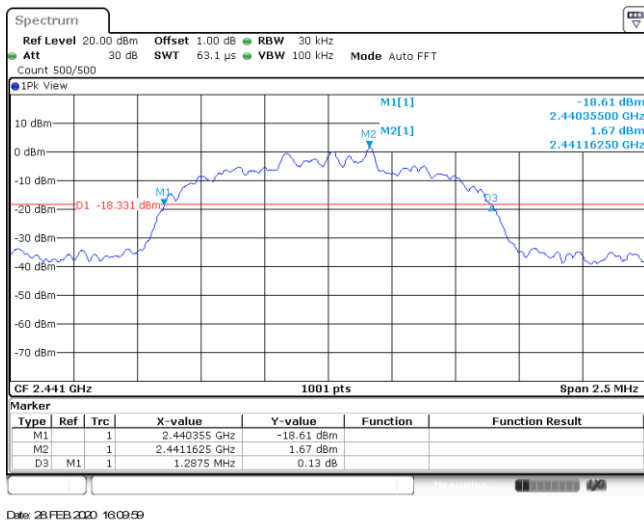


Modulation Type: 8DPSK

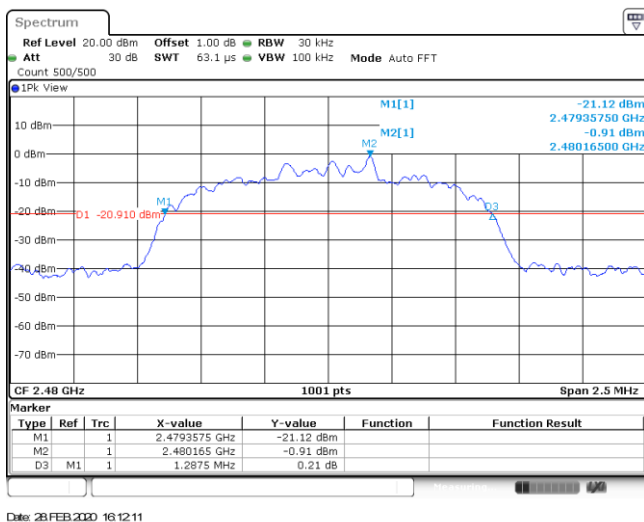
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.90	-	Pass
	39	0.90		
	78	0.91		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		
8DPSK	00	1.19	-	Pass
	39	1.18		
	78	1.18		

Modulation Type:		GFSK
CH00	<p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 28 FEB 2020 15:49:53</p>	
CH39	<p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 28 FEB 2020 15:53:04</p>	
CH78	<p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 28 FEB 2020 15:55:36</p>	

Modulation Type: $\pi/4$ DQPSK	
CH00	<p>Date: 28 FEB 2020 15:59:37</p>
CH39	<p>Date: 28 FEB 2020 16:02:26</p>
CH78	<p>Date: 28 FEB 2020 16:05:27</p>

Modulation Type:		8DPSK
CH00	<p style="font-size: small;">Spectrum 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 M1[1] -0.81 dBm 2.40216230 GHz Occ Bw 1.188811189 MHz T1 T2 CF 2.402 GHz 1001 pts Span 2.5 MHz Date: 28 FEB 2020 16:07:21</p>	
CH39	<p style="font-size: small;">Spectrum 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 M1[1] 1.66 dBm 2.44116230 GHz Occ Bw 1.183816184 MHz T1 T2 CF 2.441 GHz 1001 pts Span 2.5 MHz Date: 28 FEB 2020 16:10:07</p>	
CH78	<p style="font-size: small;">Spectrum 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 M1[1] -0.92 dBm 2.48016230 GHz Occ Bw 1.181318681 MHz T1 T2 CF 2.48 GHz 1001 pts Span 2.5 MHz Date: 28 FEB 2020 16:12:19</p>	

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥910.00	Pass
$\pi/4$ DQPSK	39	1.00	≥786.67	Pass
8DPSK	39	1.00	≥793.33	Pass

Note:

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

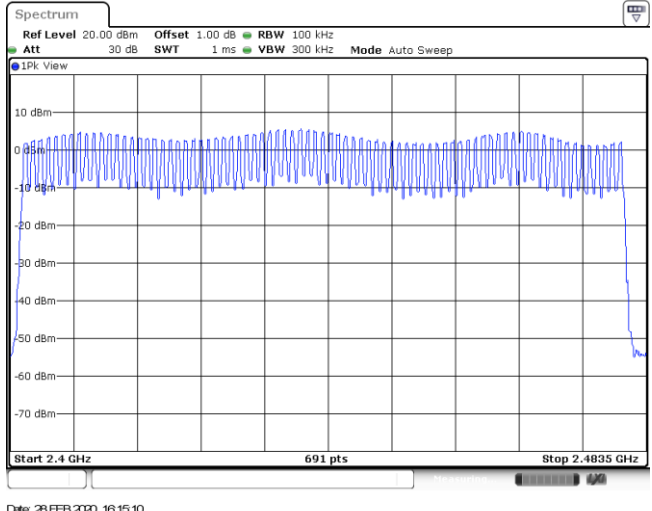
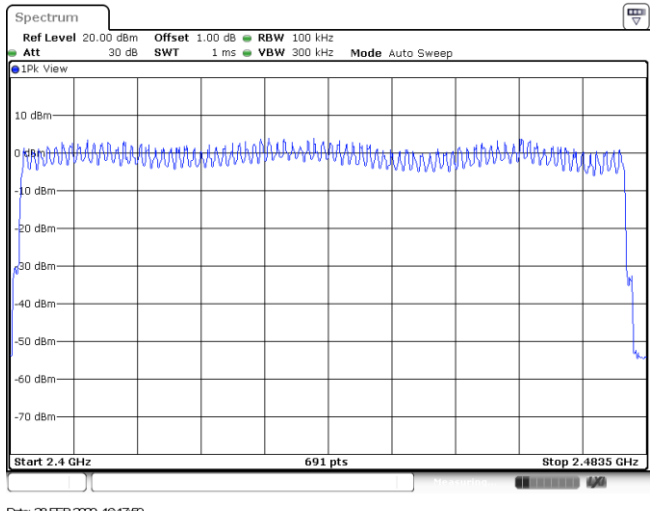
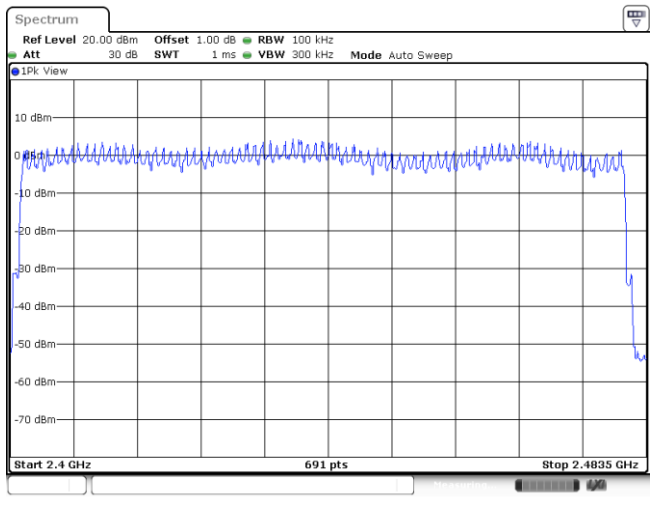
$\pi/4$ DQPSK limit = $2/3$ * The maximum 20 dB Bandwidth for $\pi/4$ DQPSK modulation on the appendix B.

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

<p style="text-align: center;">GFSK</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk View M1[1] 2.81 dBm 2.44116522 GHz -0.21 dB 1.00000 MHz Start 2.44 GHz 691 pts Stop 2.443 GHz Date: 28 FEB 2020 15:52:11</p>
<p style="text-align: center;">$\pi/4$DQPSK</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk View M1[1] 1.03 dBm 2.44116522 GHz -0.15 dB 1.00000 MHz Start 2.44 GHz 691 pts Stop 2.443 GHz Date: 28 FEB 2020 16:01:52</p>
<p style="text-align: center;">8DPSK</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk View M1[1] 1.65 dBm 2.44116087 GHz -0.12 dB 1.00435 MHz Start 2.44 GHz 691 pts Stop 2.443 GHz Date: 28 FEB 2020 16:09:32</p>

Appendix E: Hopping Channel Number

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

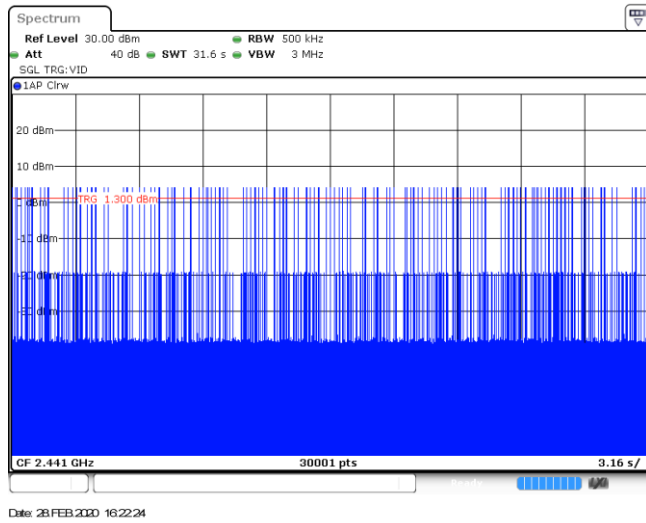
<p>GFSK</p>	 <p>Date: 28 FEB 2020 16:15:10</p>
<p>$\pi/4$DQPSK</p>	 <p>Date: 28 FEB 2020 16:17:59</p>
<p>8DPSK</p>	 <p>Date: 28 FEB 2020 16:19:30</p>

Appendix F: Dwell Time

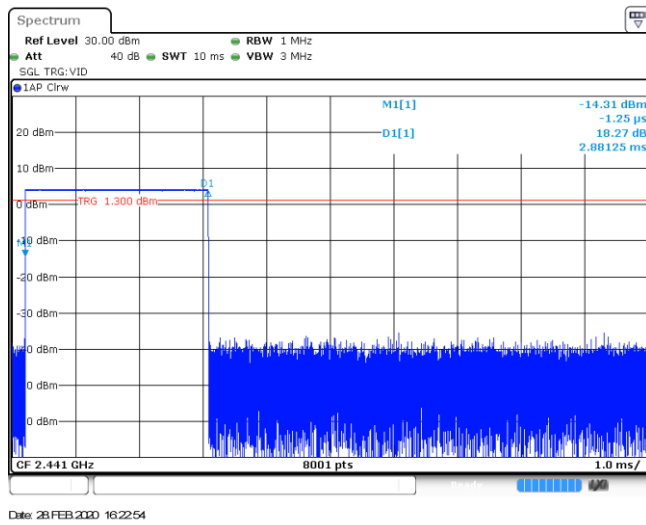
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	314	0.12	≤ 0.40	Pass
	DH3	1.63	159	0.26		
	DH5	2.88	103	0.30		
π/4DQPSK	2DH1	0.38	314	0.12	≤ 0.40	Pass
	2DH3	1.64	162	0.27		
	2DH5	2.88	104	0.30		
8DPSK	3DH1	0.38	314	0.12	≤ 0.40	Pass
	3DH3	1.64	160	0.26		
	3DH5	2.89	103	0.30		

Modulation Type: GFSK	
DH1 Burst width	<p>Ref Level 30.00 dBm Att 40 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M1[1] -4.66 dBm D1[1] 8.70 dB 376.25 µs</p> <p>TRG 1.300 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 28 FEB 2020 16:20:34</p>
DH1 Burst number	<p>Ref Level 30.00 dBm Att 40 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz</p> <p>TRG 1.300 dBm</p> <p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 28 FEB 2020 16:21:08</p>
DH3 Burst width	<p>Ref Level 30.00 dBm Att 40 dB RBW 1 MHz SWT 10 ms VBW 3 MHz</p> <p>M1[1] -0.17 dBm D1[1] 4.02 dB 1.63250 ms</p> <p>TRG 1.300 dBm</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 28 FEB 2020 16:21:50</p>

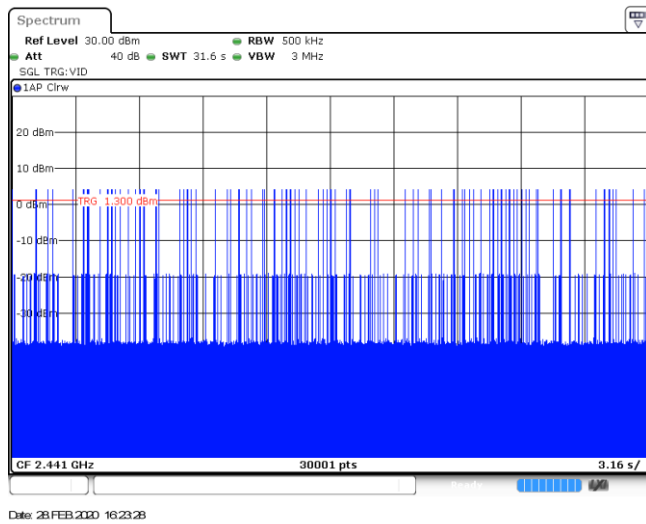
DH3
Burst number



DH5
Burst width

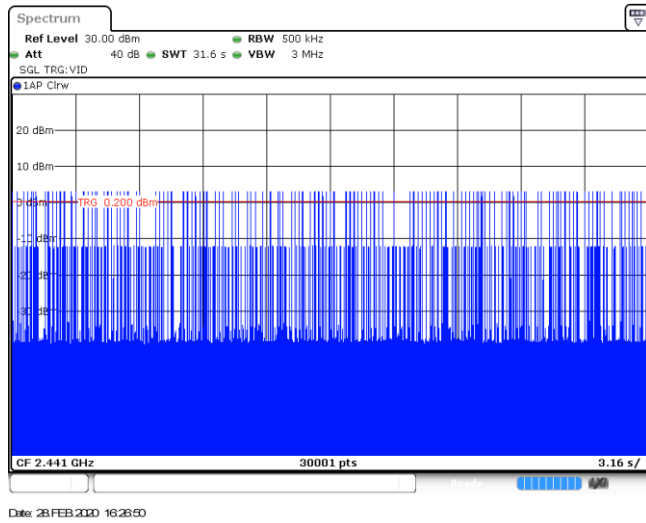


DH5
Burst number

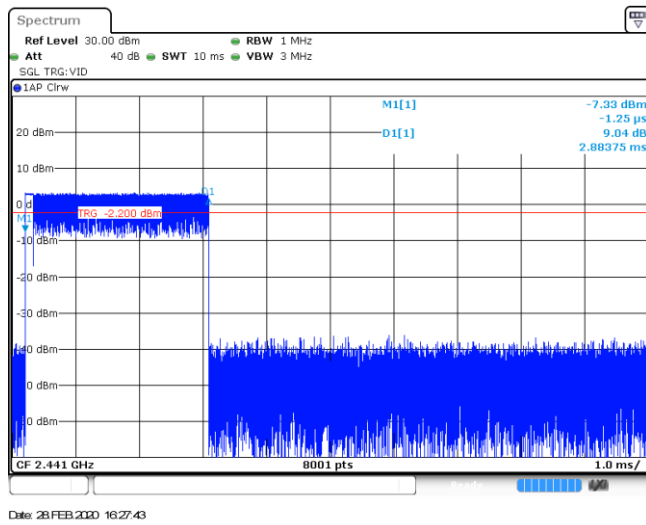


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p style="font-size: small;">Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 3 MHz SGL TRG:VID 1AP Cirw M1[1] -6.01 dBm D1[1] -1.25 μs 7.78 dB 383.75 μs TRG 0.200 dBm CF 2.441 GHz 8001 pts 1.0 ms/ Date: 28 FEB 2020 16:32:14</p>
2DH1 Burst number	<p style="font-size: small;">Spectrum Ref Level 30.00 dBm RBW 500 kHz Att 40 dB SWT 31.6 s VBW 3 MHz SGL TRG:VID 1AP Cirw TRG 0.200 dBm CF 2.441 GHz 30001 pts 3.16 s/ Date: 28 FEB 2020 16:32:48</p>
2DH3 Burst width	<p style="font-size: small;">Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 3 MHz SGL TRG:VID 1AP Cirw M1[1] -18.27 dBm D1[1] -2.50 μs 20.07 dB 1.63625 ms TRG 0.200 dBm CF 2.441 GHz 8001 pts 1.0 ms/ Date: 28 FEB 2020 16:28:16</p>

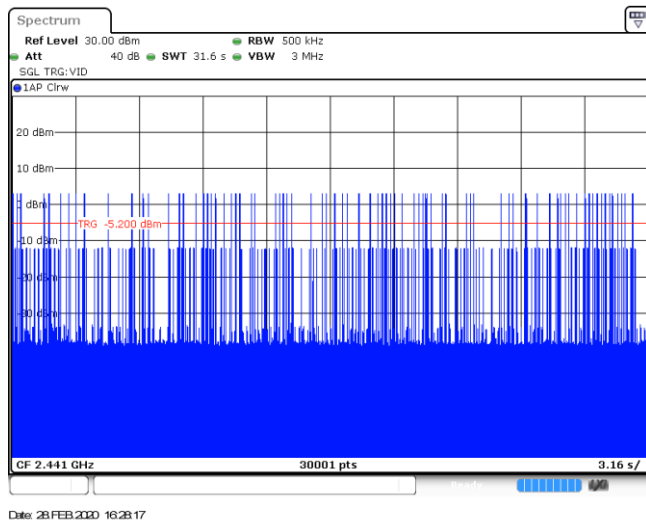
2DH3
Burst number



2DH5
Burst width

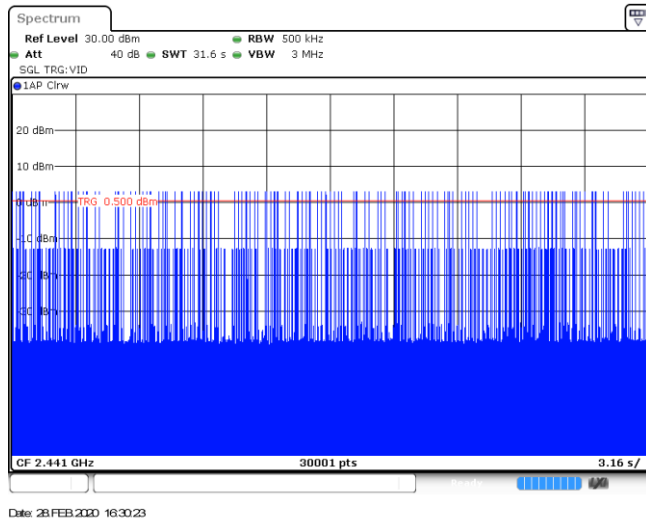


2DH5
Burst number

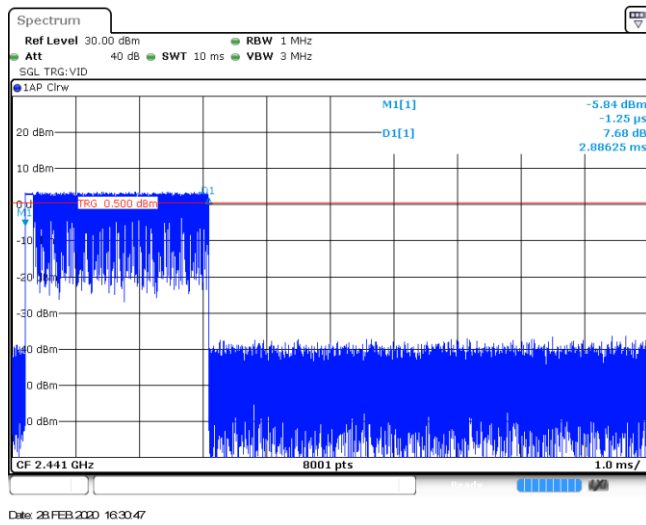


Modulation Type: 8DPSK	
3DH1 Burst width	
3DH1 Burst number	
3DH3 Burst width	

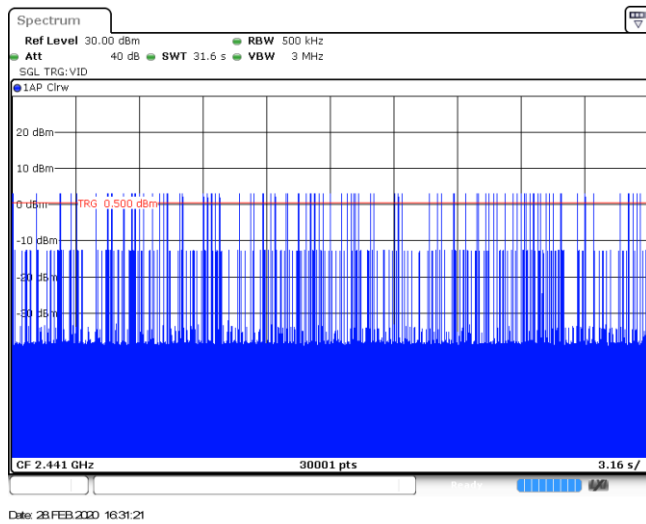
3DH3
Burst number



3DH5
Burst width



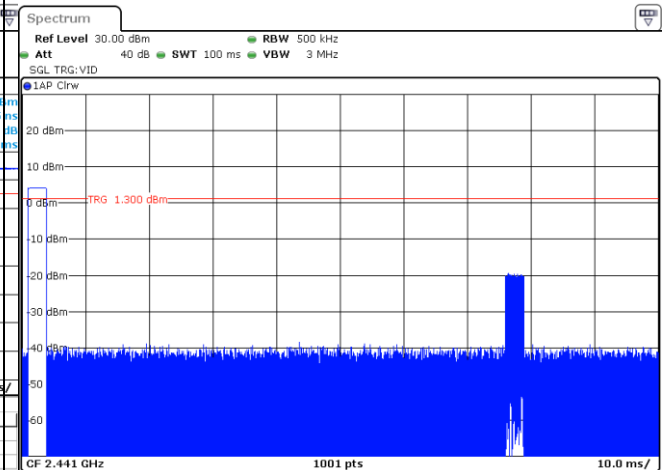
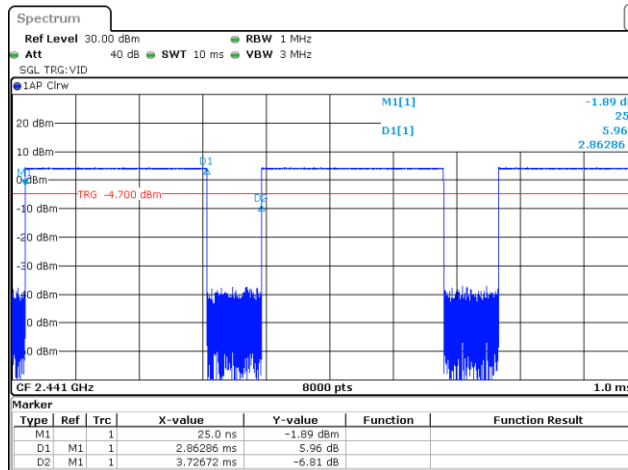
3DH5
Burst number



Appendix G: Duty Cycle Correction Factor (DCCF)

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log($T_{on\ time} / T_{period}$)					
Modulation type	Test Frequency (MHz)	$T_{on\ time}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	2	-24.85
$\pi/4$ DQPSK	2441	2.87	100	4	-18.80
8DPSK	2441	2.87	100	2	-24.82

GFSK



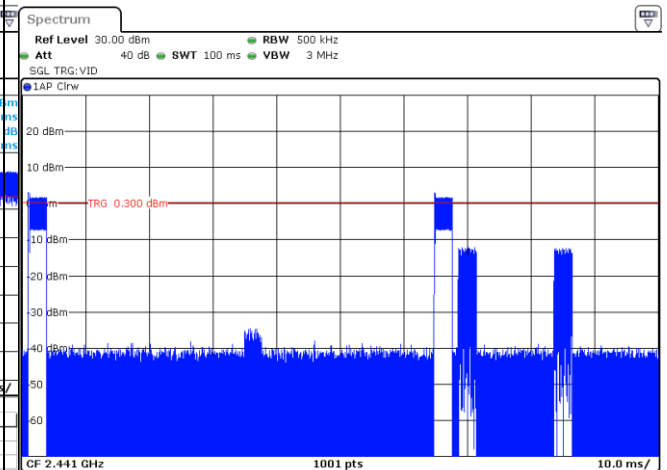
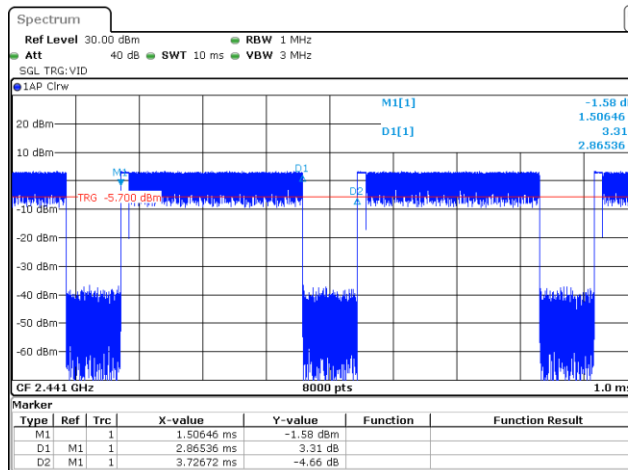
Date: 28 FEB 2020 15:53:28

Date: 28 FEB 2020 15:53:55

T_{on} time for single burst

Burst Quantity

$\pi/4$ DQPSK



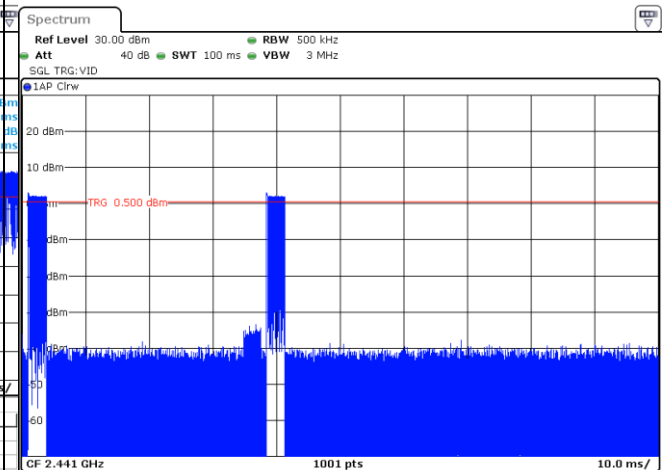
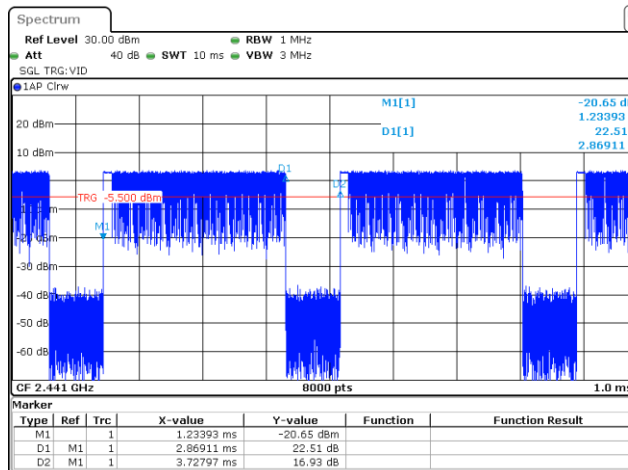
Date: 28 FEB 2020 16:02:48

Date: 28 FEB 2020 16:03:05

T_{on} time for single burst

Burst Quantity

8DPSK



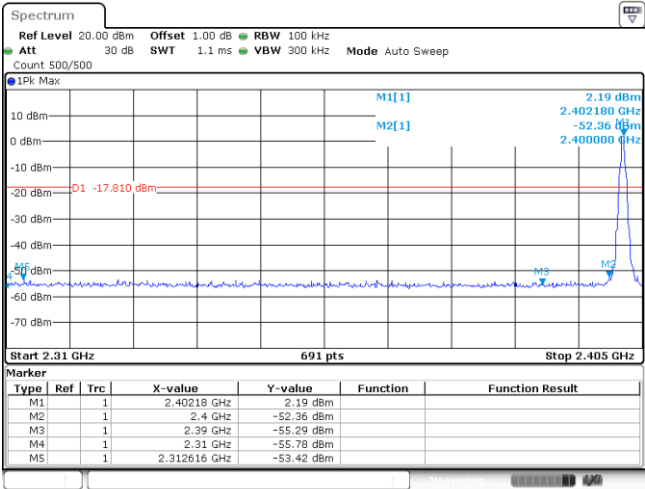
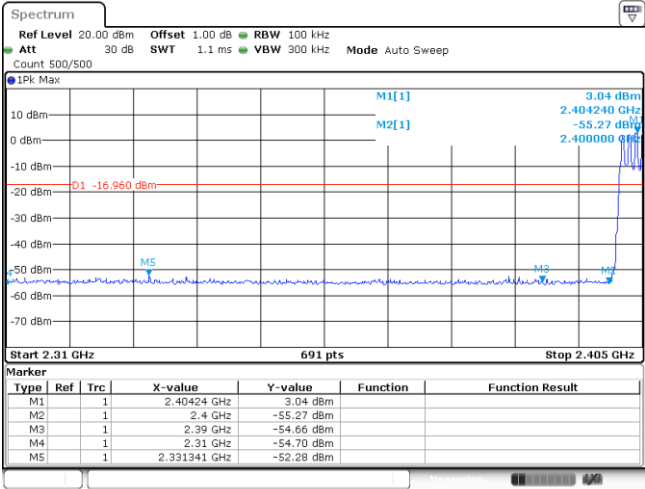
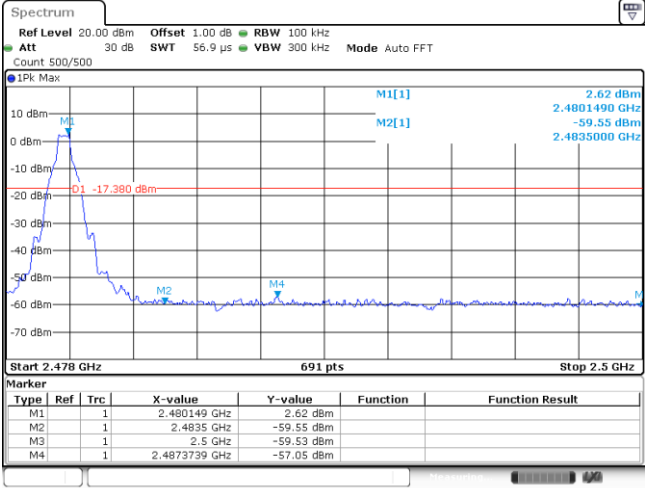
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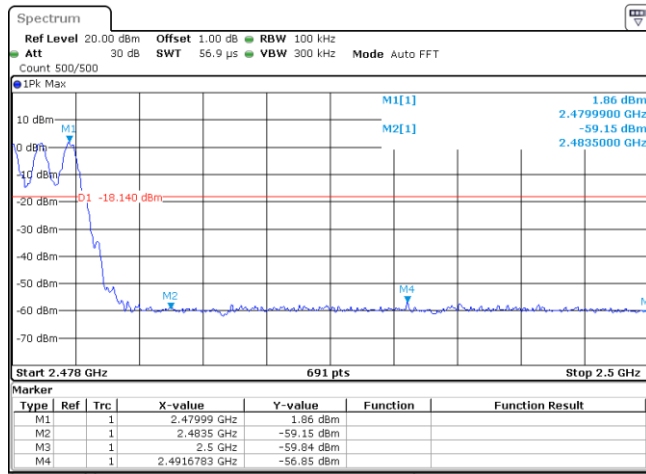
T_{on} time for single burst

Burst Quantity

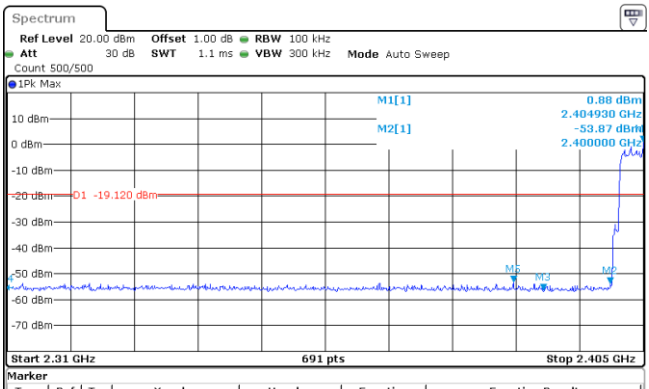
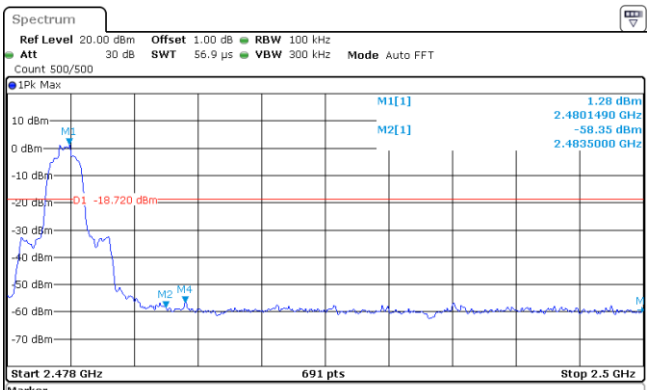
Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1"> <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></td> <td>1</td> <td>2.40218 GHz</td> <td>2.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-52.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-55.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-55.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.312616 GHz</td> <td>-53.42 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 FEB 2020 16:50:24</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40218 GHz	2.19 dBm			M2		1	2.4 GHz	-52.36 dBm			M3		1	2.39 GHz	-55.29 dBm			M4		1	2.31 GHz	-55.78 dBm			M5		1	2.312616 GHz	-53.42 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.40218 GHz	2.19 dBm																																									
M2		1	2.4 GHz	-52.36 dBm																																									
M3		1	2.39 GHz	-55.29 dBm																																									
M4		1	2.31 GHz	-55.78 dBm																																									
M5		1	2.312616 GHz	-53.42 dBm																																									
<p>CH00 Hopping mode</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></td> <td>1</td> <td>2.40424 GHz</td> <td>3.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4 GHz</td> <td>-55.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.39 GHz</td> <td>-54.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.31 GHz</td> <td>-54.70 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td></td> <td>1</td> <td>2.331341 GHz</td> <td>-52.28 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 FEB 2020 16:16:42</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40424 GHz	3.04 dBm			M2		1	2.4 GHz	-55.27 dBm			M3		1	2.39 GHz	-54.66 dBm			M4		1	2.31 GHz	-54.70 dBm			M5		1	2.331341 GHz	-52.28 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.40424 GHz	3.04 dBm																																									
M2		1	2.4 GHz	-55.27 dBm																																									
M3		1	2.39 GHz	-54.66 dBm																																									
M4		1	2.31 GHz	-54.70 dBm																																									
M5		1	2.331341 GHz	-52.28 dBm																																									
<p>CH78 No hopping mode</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></td> <td>1</td> <td>2.480149 GHz</td> <td>2.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4835 GHz</td> <td>-59.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td></td> <td>1</td> <td>2.5 GHz</td> <td>-59.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td></td> <td>1</td> <td>2.4873739 GHz</td> <td>-57.05 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 FEB 2020 16:33:46</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.480149 GHz	2.62 dBm			M2		1	2.4835 GHz	-59.55 dBm			M3		1	2.5 GHz	-59.53 dBm			M4		1	2.4873739 GHz	-57.05 dBm									
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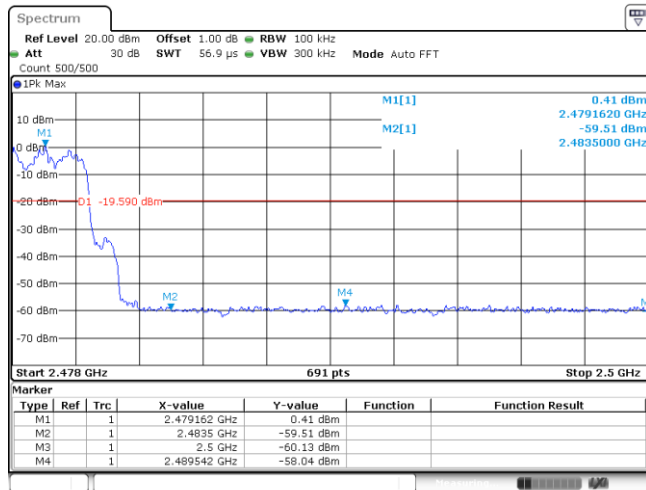
CH78
Hopping mode



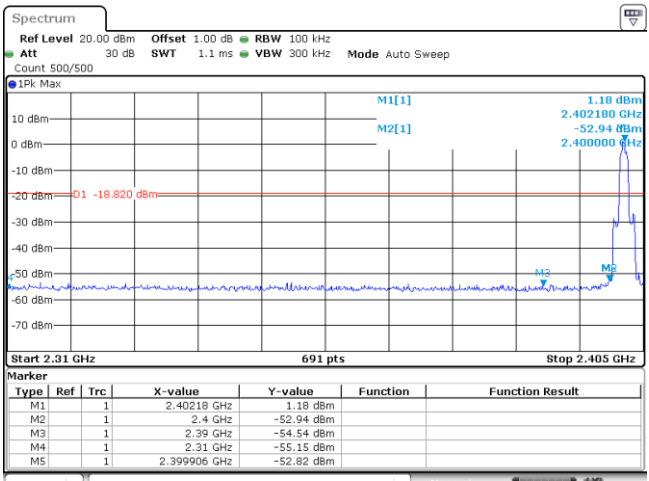
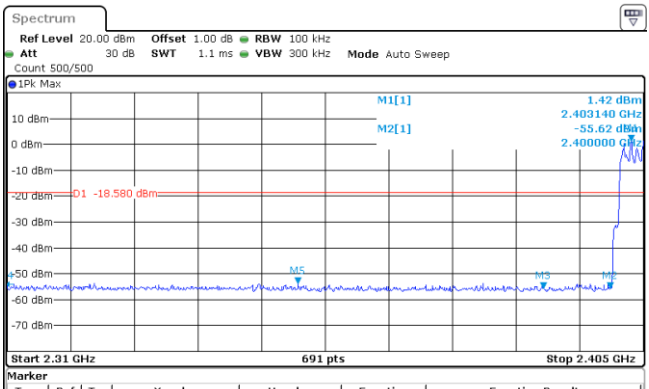
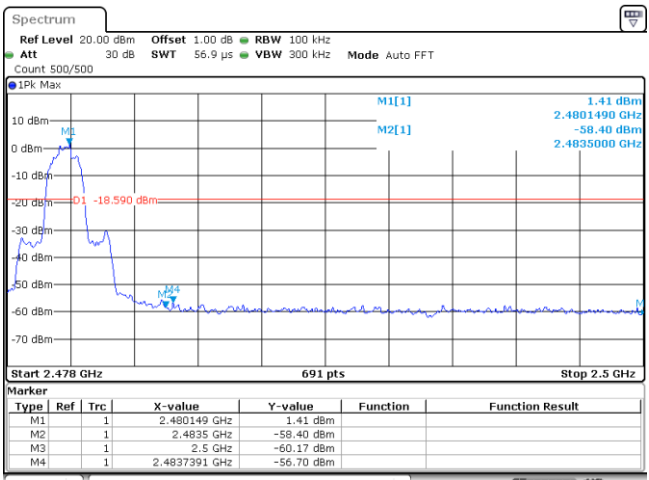
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Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<p>CH00 No hopping mode</p>	 <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40191 GHz</td> <td>0.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-56.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-54.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399493 GHz</td> <td>-53.19 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 FEB 2020 16:00:00</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40191 GHz	0.97 dBm			M2	1		2.4 GHz	-53.08 dBm			M3	1		2.39 GHz	-56.49 dBm			M4	1		2.31 GHz	-54.92 dBm			M5	1		2.399493 GHz	-53.19 dBm		
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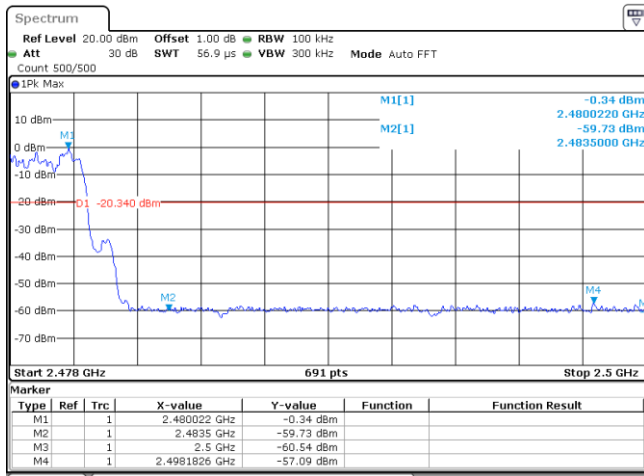
CH78
Hopping mode



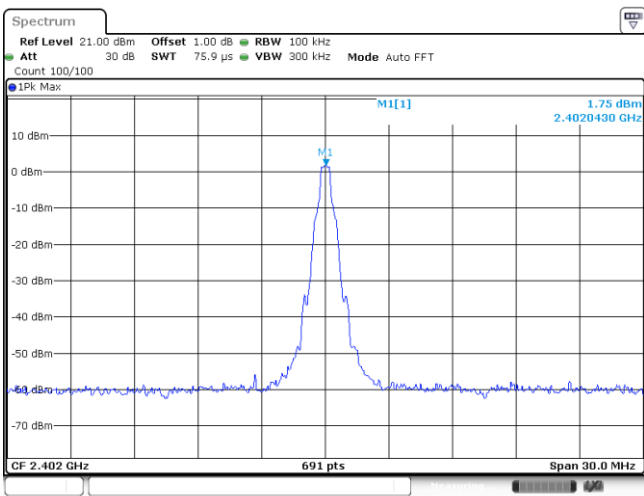
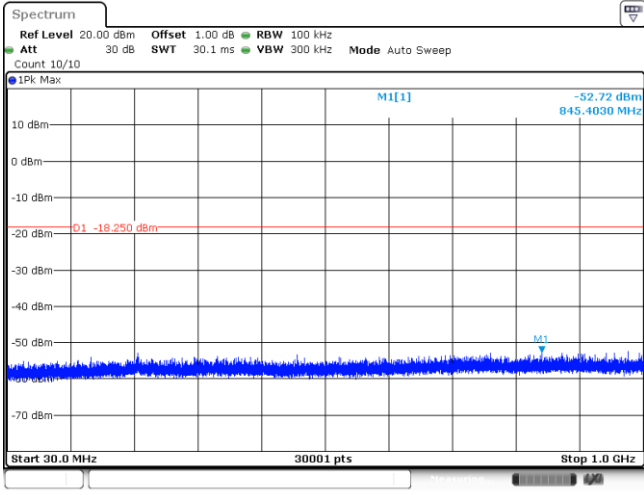
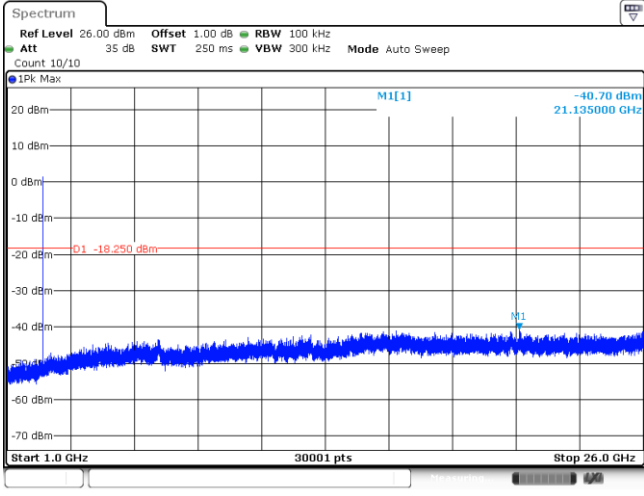
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Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max Start 2.31 GHz 691 pts Stop 2.405 GHz</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>2.40218 GHz</td> <td>1.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399906 GHz</td> <td>-52.82 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 FEB 2020 16:07:43</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	1.18 dBm			M2	1		2.4 GHz	-52.94 dBm			M3	1		2.39 GHz	-54.54 dBm			M4	1		2.31 GHz	-55.15 dBm			M5	1		2.399906 GHz	-52.82 dBm		
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<p>CH78 No hopping mode</p>	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 56.9 µs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk Max Start 2.478 GHz 691 pts Stop 2.5 GHz</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>2.480149 GHz</td> <td>1.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-56.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-60.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4837391 GHz</td> <td>-56.70 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 28 FEB 2020 16:34:23</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480149 GHz	1.41 dBm			M2	1		2.4835 GHz	-56.40 dBm			M3	1		2.5 GHz	-60.17 dBm			M4	1		2.4837391 GHz	-56.70 dBm									
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CH78
Hoppig mode

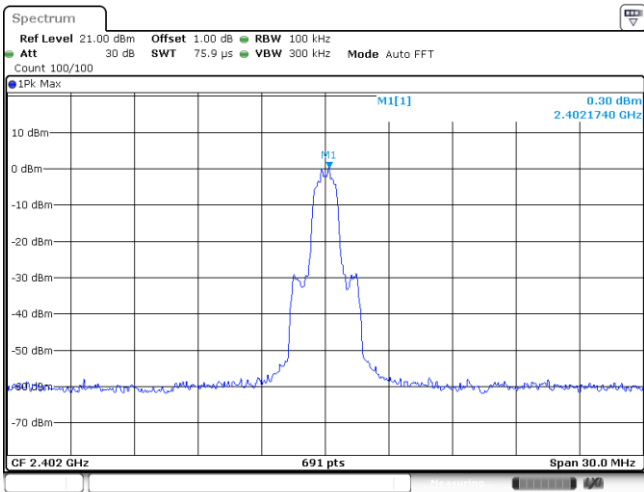
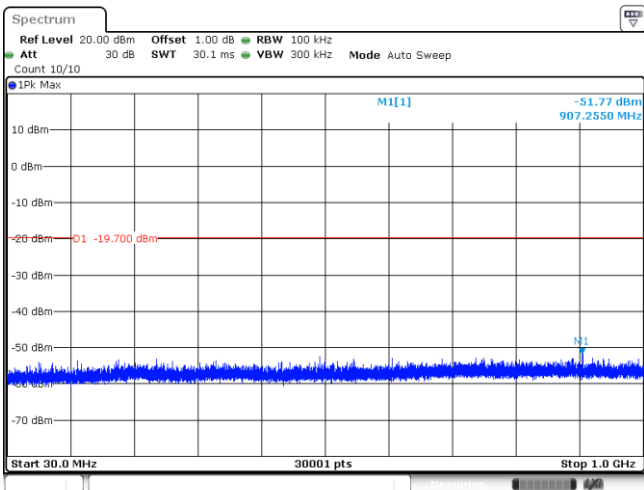
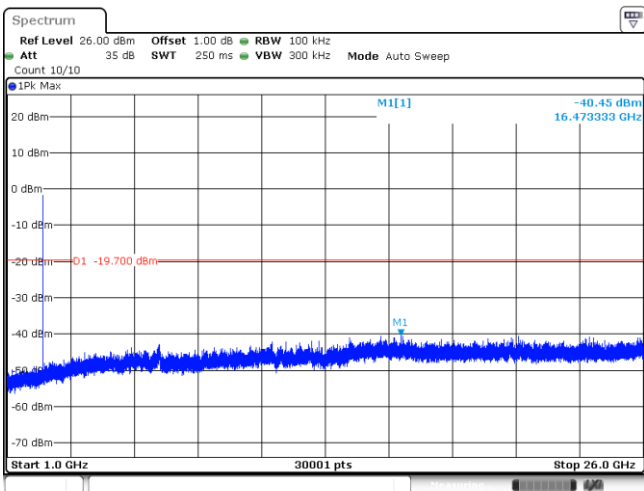


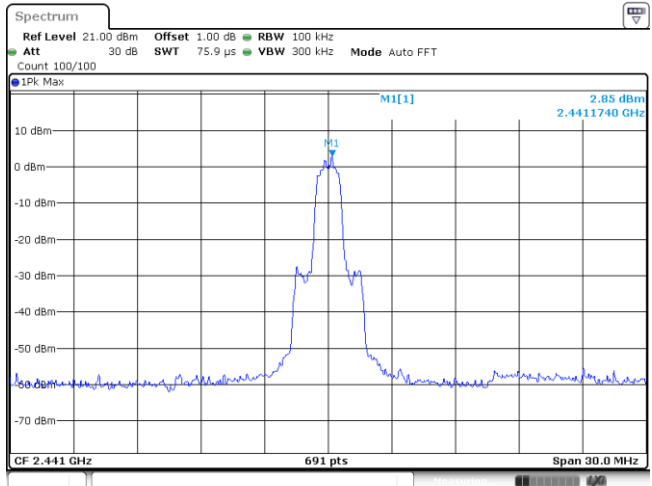
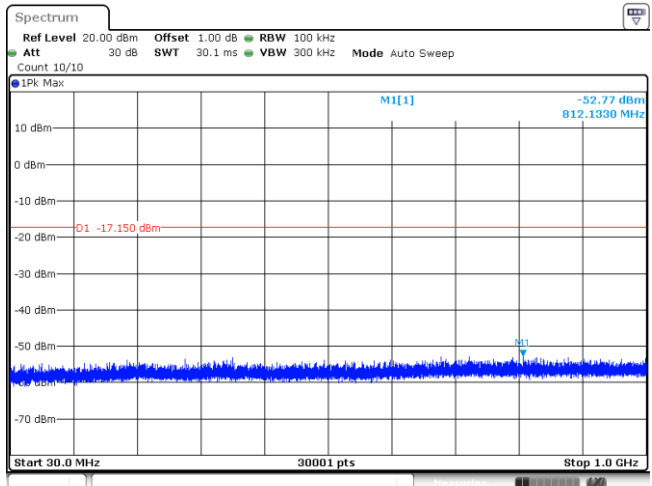
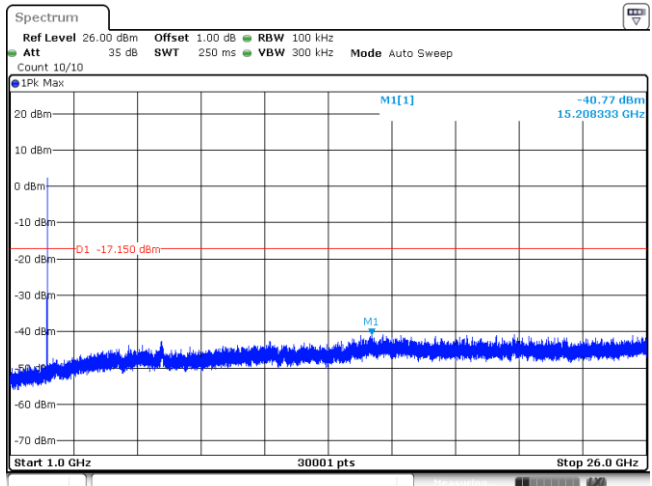
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Test Item:	Spurious Emission	Modulation type:	GFSK
<p>CH00 Reference level</p>	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] 1.75 dBm 2.4020430 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 28 FEB 2020 15:50:35</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Spectrum</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</p> <p>1Pk Max</p> <p>M1[1] -52.72 dBm 845.4030 MHz</p> <p>D1 -18.250 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 28 FEB 2020 15:50:52</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Spectrum</p> <p>Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max</p> <p>M1[1] -40.70 dBm 21.135000 GHz</p> <p>D1 -18.250 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 28 FEB 2020 15:51:08</p>		

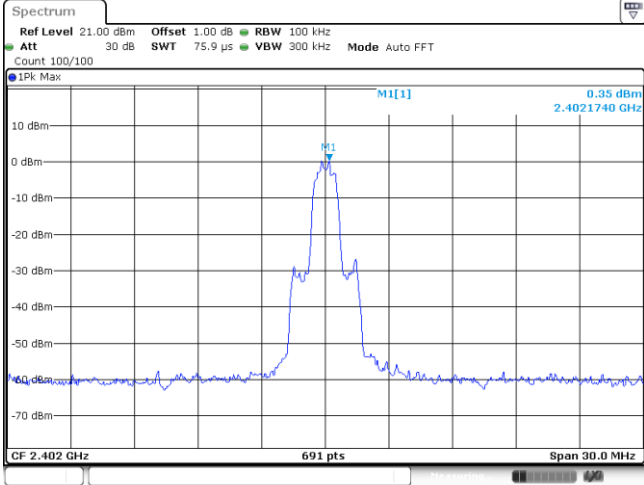
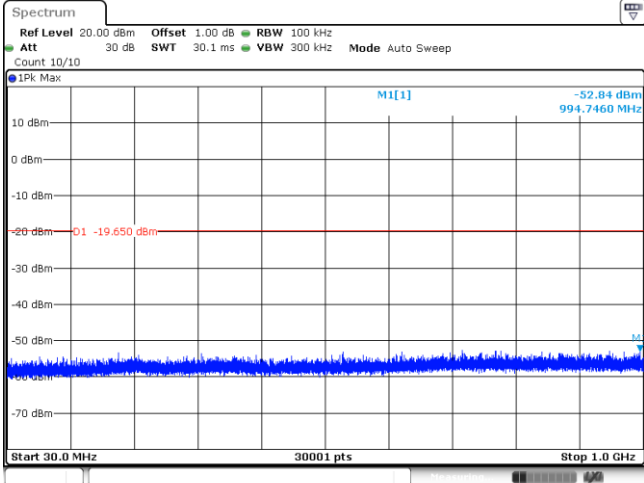
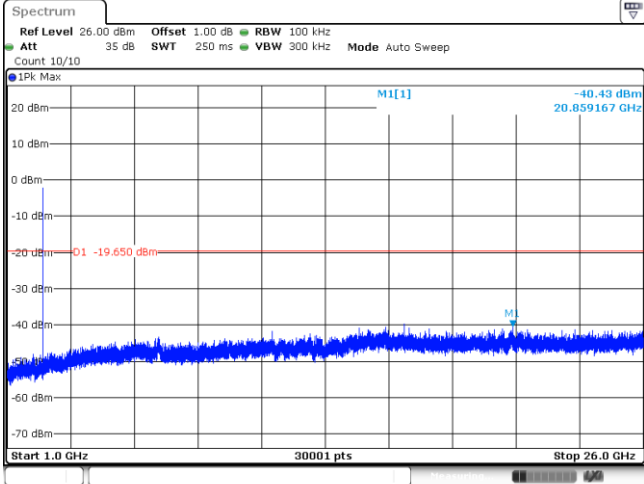
<p>CH39 Reference level</p>	<p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 4.27 dBm 2.4409570 GHz</p> <p>CF 2.441 GHz 691 pts Span 30.0 MHz</p> <p>Date: 28 FEB 2020 15:54:14</p>
<p>CH39 30MHz~1000MHz</p>	<p>Spectrum</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</p> <p>IPK Max</p> <p>M1[1] -51.88 dBm 782.4520 MHz</p> <p>D1 -15.730 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 28 FEB 2020 15:54:33</p>
<p>CH39 1GHz~26GHz</p>	<p>Spectrum</p> <p>Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>IPK Max</p> <p>M1[1] -39.98 dBm 20.366667 GHz</p> <p>D1 -15.730 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 28 FEB 2020 15:54:49</p>

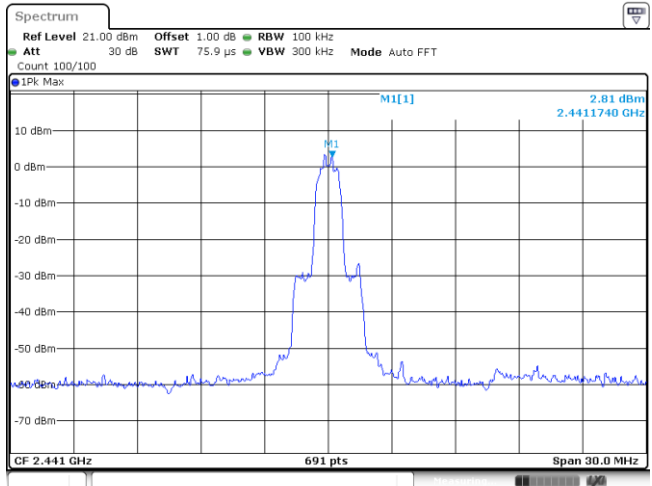
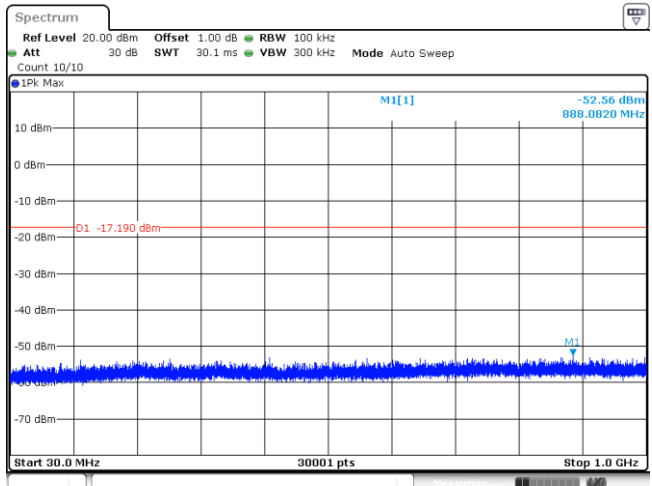
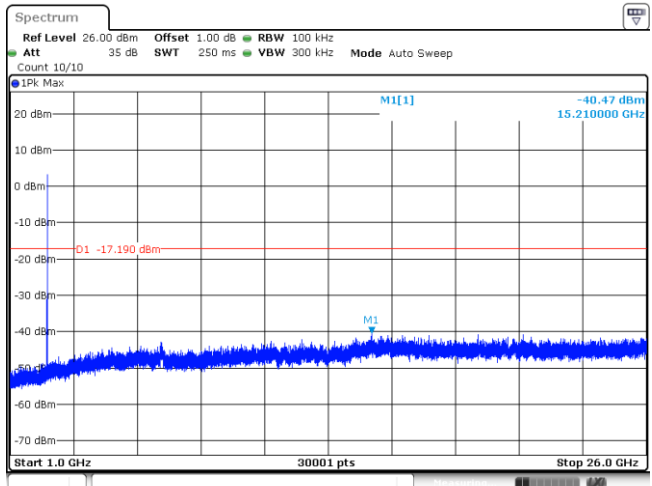
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<p>CH78 30MHz~1000MHz</p>	
<p>CH78 1GHz~26GHz</p>	

Test Item:	Spurious Emission	Modulation type:	π/4DQPSK
<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 0.30 dBm 2.4021740 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 28 FEB 2020 16:00:09</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 -51.77 dBm 907.2550 MHz -19.700 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 28 FEB 2020 16:00:25</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Spectrum Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -40.45 dBm 16.479333 GHz -19.700 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 28 FEB 2020 16:00:41</p>		

<p>CH39 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] 2.85 dBm 2.4411740 GHz CF 2.441 GHz 691 pts Span 30.0 MHz Date: 28 FEB 2020 16:03:33</p>
<p>CH39 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] -52.77 dBm 812.1330 MHz D1 -17.150 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 28 FEB 2020 16:03:49</p>
<p>CH39 1GHz~26GHz</p>	 <p>Spectrum Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -40.77 dBm 15.208333 GHz D1 -17.150 dBm M1 Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 28 FEB 2020 16:04:05</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: 0.35 dBm 2.4021740 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 28 FEB 2020 16:07:52</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>1Pk Max: -52.84 dBm 994.7460 MHz</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 28 FEB 2020 16:08:08</p>		
<p>CH00 1GHz~26GHz</p>	 <p>1Pk Max: -40.43 dBm 20.859167 GHz</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 28 FEB 2020 16:08:24</p>		

<p>CH39 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] 2.81 dBm 2.4411740 GHz CF 2.441 GHz 691 pts Span 30.0 MHz Date: 28 FEB 2020 16:11:11</p>
<p>CH39 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] -52.56 dBm 888.0820 MHz D1 -17.190 dBm M1 Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 28 FEB 2020 16:11:27</p>
<p>CH39 1GHz~26GHz</p>	 <p>Spectrum Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -40.47 dBm 15.210000 GHz D1 -17.190 dBm M1 Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 28 FEB 2020 16:11:43</p>

<p>CH78 Reference level</p>	<p>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] 0.64 dBm 2.4801740 GHz CF 2.48 GHz 691 pts Span 30.0 MHz Date: 28 FEB 2020 16:13:17</p>
<p>CH78 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 IPK Max M1[1] -52.59 dBm 668.8690 MHz -19.360 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 28 FEB 2020 16:13:33</p>
<p>CH78 1GHz~26GHz</p>	<p>Ref Level 26.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -40.25 dBm 20.789167 GHz -19.360 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 28 FEB 2020 16:13:49</p>

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