

# APPENDIX REPORT

Project No.	SHT2003039602EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20030396004	Model No.	S219T
Start test date	2020/3/25	Finish date	2020/3/25
Temperature	25°C	Humidity	50%
Test Engineer	Jinyue.Yan	Auditor	<i>William.wang</i>

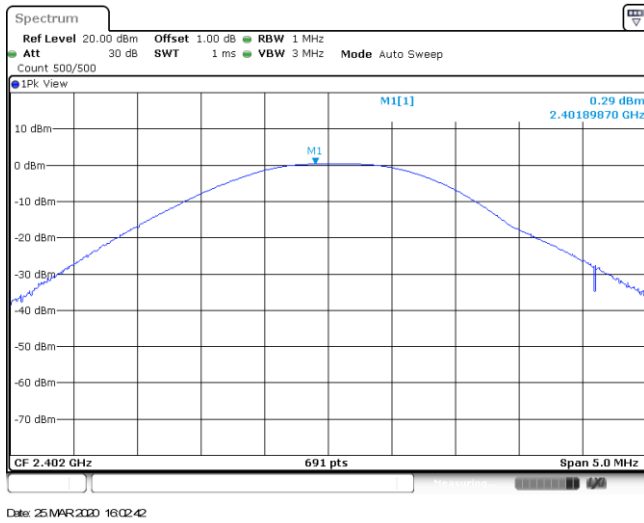
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

**Appendix A: Peak Output Power**

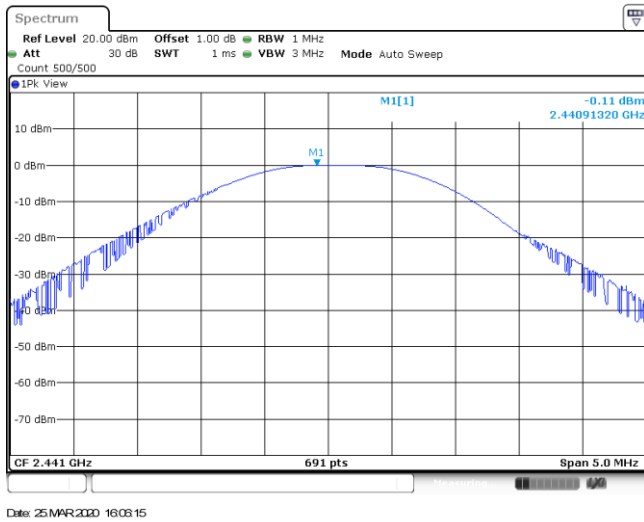
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	0.29	0.19	≤ 30.00	Pass
	39	-0.11	-0.21		
	78	-0.86	-0.96		
π/4DQPSK	00	1.39	0.26	≤ 21.00	Pass
	39	1.07	-0.30		
	78	-0.15	-1.45		
8DPSK	00	1.54	0.28	≤ 21.00	Pass
	39	1.23	-0.35		
	78	0.13	-1.43		

**Modulation Type:** GFSK

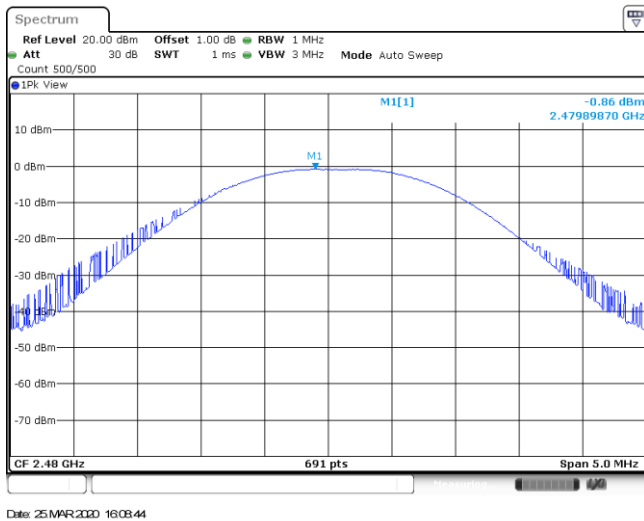
CH00



CH39

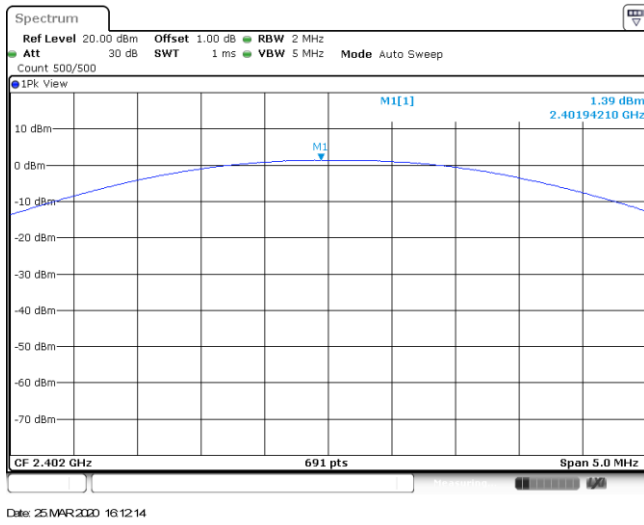


CH78

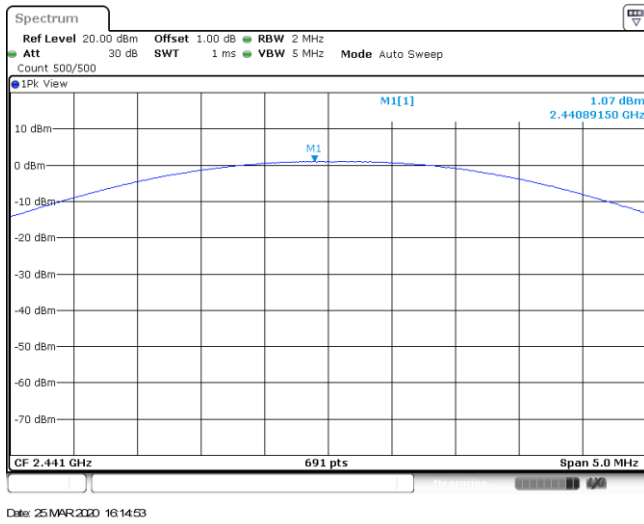


**Modulation Type:**  $\pi/4$ DQPSK

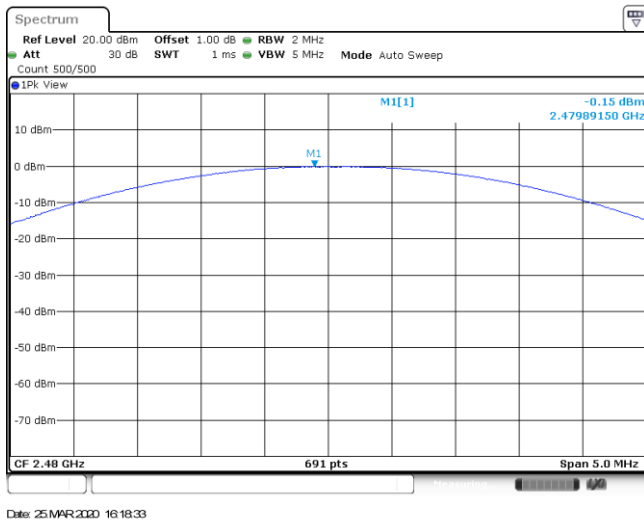
CH00



CH39

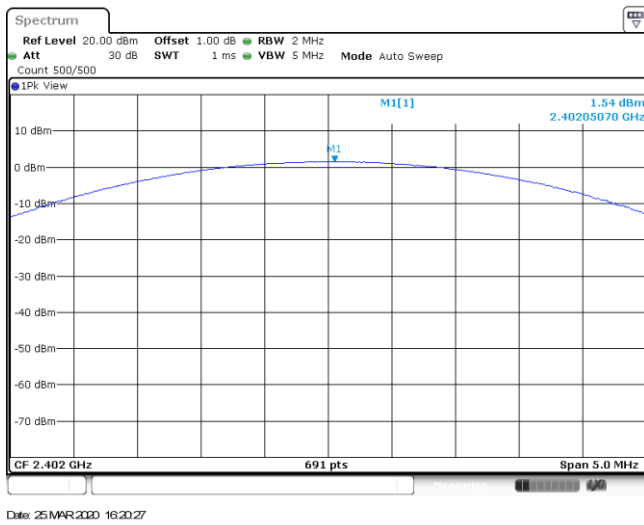


CH78

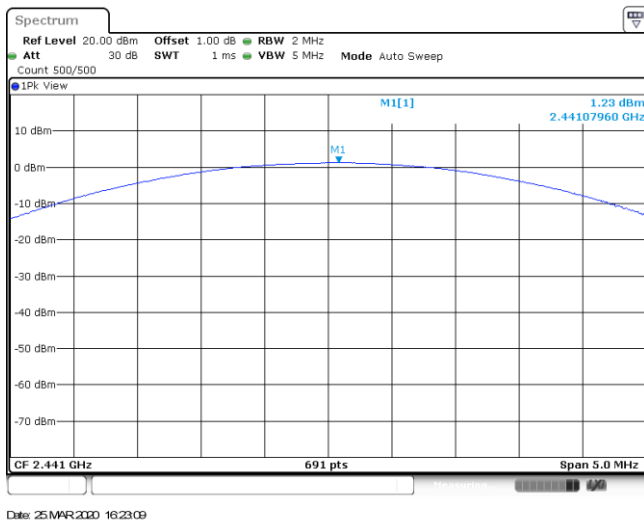


**Modulation Type: 8DPSK**

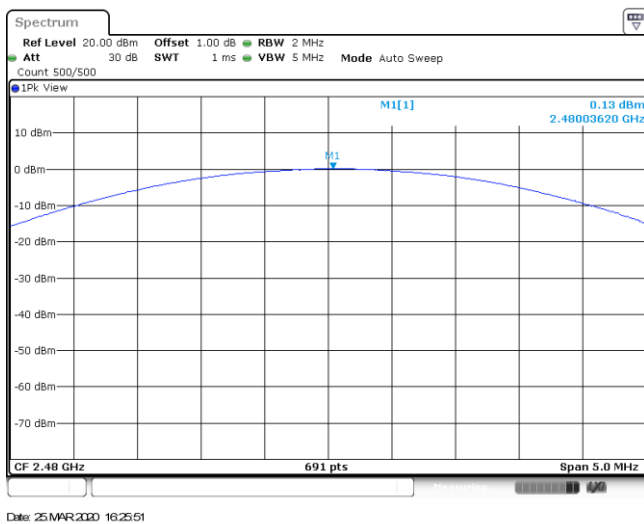
CH00



CH39



CH78

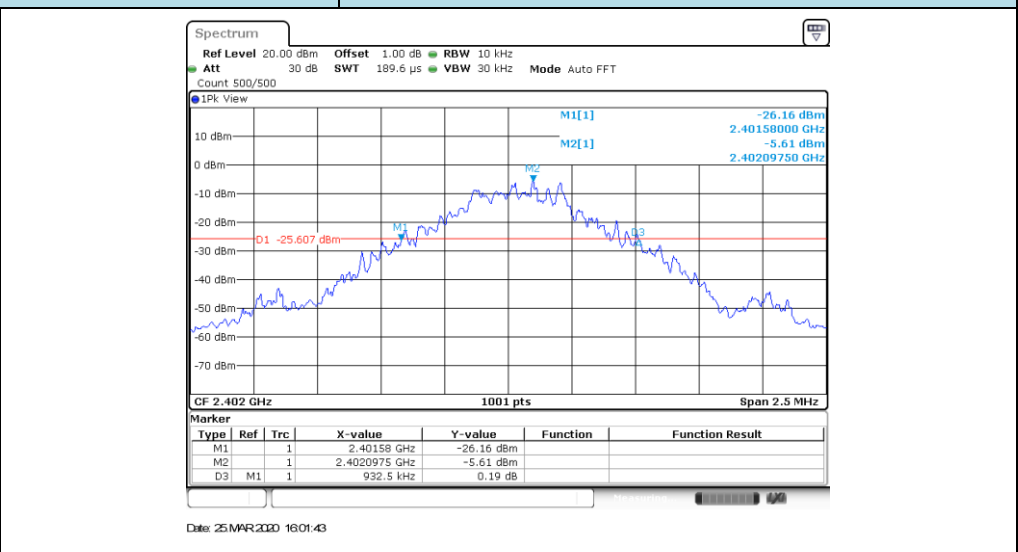


**Appendix B : 20 dB Bandwidth**

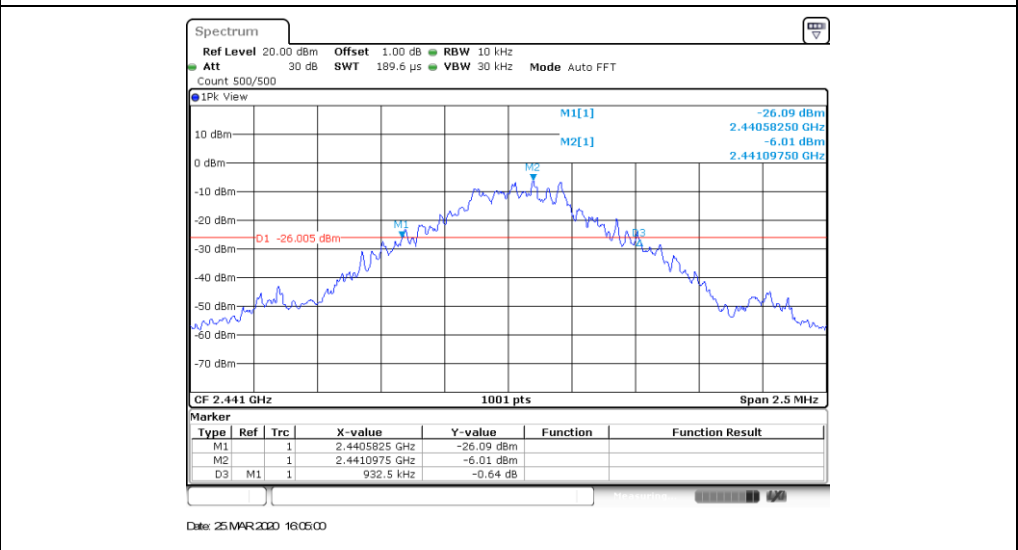
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	932.5	-	Pass
	39	932.5		
	78	932.5		
$\pi/4$ DQPSK	00	1285.0	-	Pass
	39	1282.5		
	78	1282.5		
8DPSK	00	1282.5	-	Pass
	39	1282.5		
	78	1282.5		

**Modulation Type: GFSK**

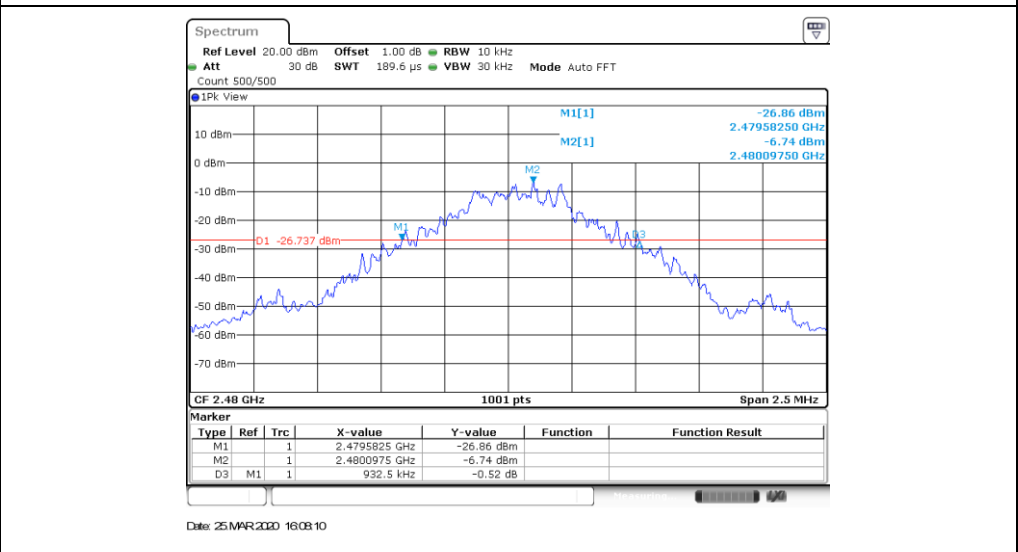
CH00



CH39

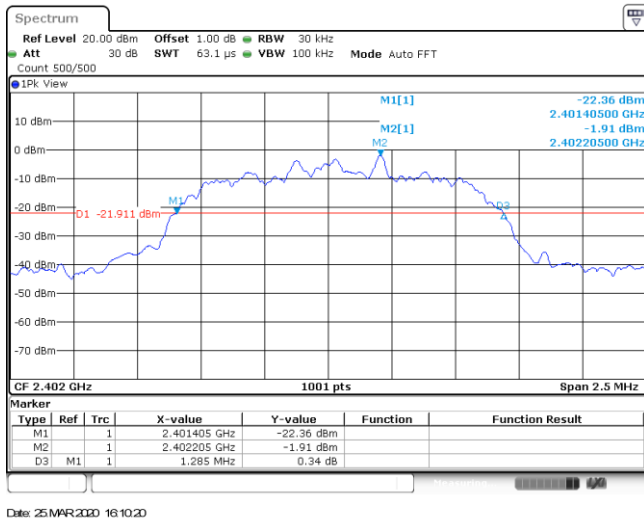


CH78



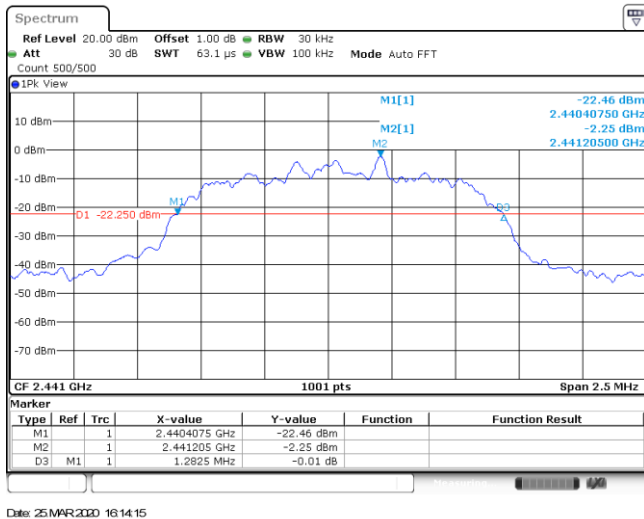
**Modulation Type:**  $\pi/4$ DQPSK

CH00



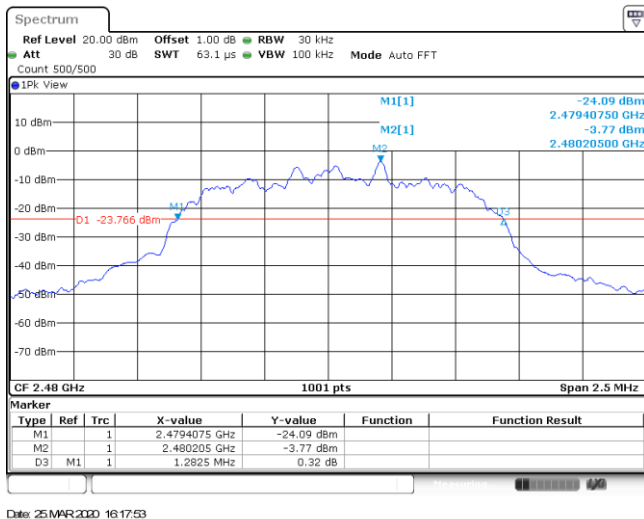
Date: 25 MAR 2020 16:10:20

CH39



Date: 25 MAR 2020 16:14:15

CH78

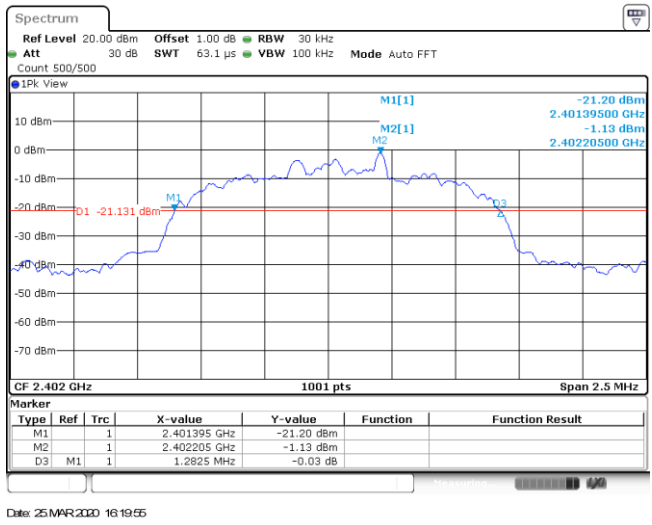


Date: 25 MAR 2020 16:17:53



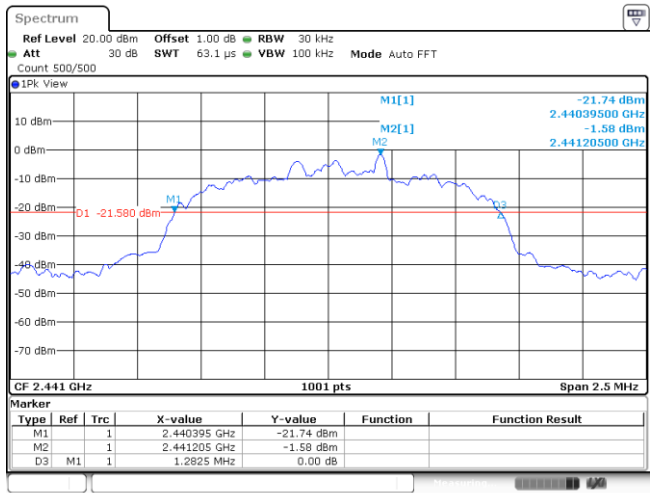
**Modulation Type: 8DPSK**

CH00



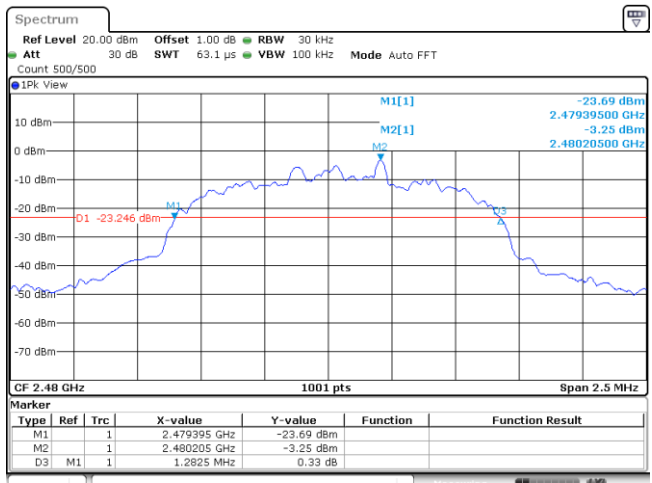
Date: 25 MAR 2020 16:19:55

CH39



Date: 25 MAR 2020 16:22:28

CH78



Date: 25 MAR 2020 16:25:11

**Appendix C: 99% Occupied Bandwidth**

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.89	-	Pass
	39	0.89		
	78	0.89		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.17		
8DPSK	00	1.18	-	Pass
	39	1.18		
	78	1.17		

Modulation Type:		GFSK
CH00	<p>                     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] -1.06 dBm                      2.40220230 GHz                      Occ Bw 889.110889111 kHz                      CF 2.402 GHz 1001 pts Span 2.5 MHz                      Date: 25 MAR 2020 16:01:59                 </p>	
CH39	<p>                     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] -1.36 dBm                      2.44120480 GHz                      Occ Bw 889.110889111 kHz                      CF 2.441 GHz 1001 pts Span 2.5 MHz                      Date: 25 MAR 2020 16:05:03                 </p>	
CH78	<p>                     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] -2.11 dBm                      2.48020480 GHz                      Occ Bw 889.110889111 kHz                      CF 2.48 GHz 1001 pts Span 2.5 MHz                      Date: 25 MAR 2020 16:03:18                 </p>	

Modulation Type: $\pi/4$ DQPSK	
CH00	
CH39	
CH78	

**Modulation Type: 8DPSK**

CH00



CH39



CH78



**Appendix D: Carrier Frequencies Separation**

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥932	Pass
π/4DQPSK	39	1.00	≥857	Pass
8DPSK	39	1.00	≥855	Pass

**Note:**

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

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

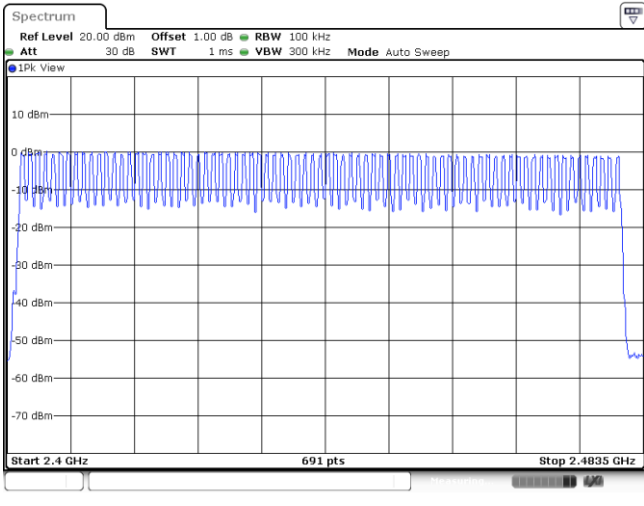
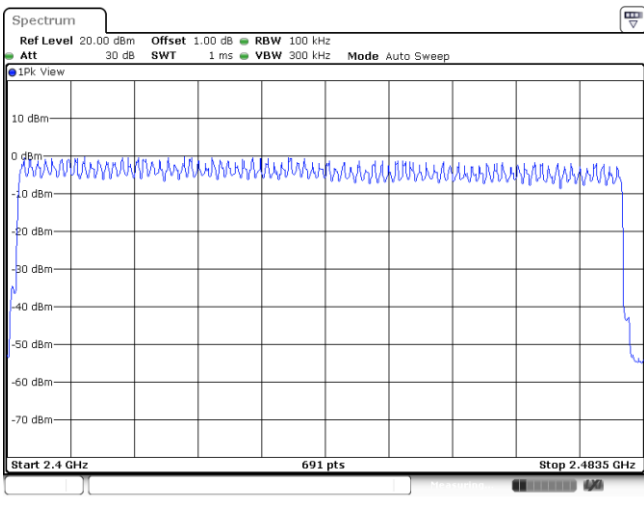
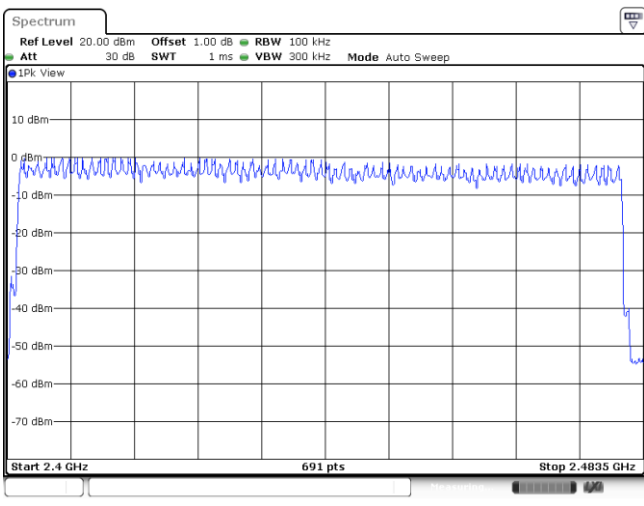
8DPSK limit = 2/3 \* The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

<p>GFSK</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz          Att 30 dB SWT 63.2 <math>\mu</math>s VBW 100 kHz Mode Auto FFT          Count 100/100</p> <p>1Pk View</p> <p>M1[1] -1.41 dBm          2.44120435 GHz          D1[1] 0.03 dB          1.00000 MHz</p> <p>Start 2.44 GHz 691 pts Stop 2.443 GHz</p> <p>Date: 25 MAR 2020 16:04:35</p>
<p><math>\pi/4</math>DQPSK</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz          Att 30 dB SWT 63.2 <math>\mu</math>s VBW 100 kHz Mode Auto FFT          Count 100/100</p> <p>1Pk View</p> <p>M1[1] -2.28 dBm          2.44120435 GHz          D1[1] -0.67 dB          1.00000 MHz</p> <p>Start 2.44 GHz 691 pts Stop 2.443 GHz</p> <p>Date: 25 MAR 2020 16:13:59</p>
<p>8DPSK</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz          Att 30 dB SWT 63.2 <math>\mu</math>s VBW 100 kHz Mode Auto FFT          Count 100/100</p> <p>1Pk View</p> <p>M1[1] -1.59 dBm          2.44120435 GHz          D1[1] -1.00 dB          1.00000 MHz</p> <p>Start 2.44 GHz 691 pts Stop 2.443 GHz</p> <p>Date: 25 MAR 2020 16:22:12</p>

**Appendix E: Hopping Channel Number**

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



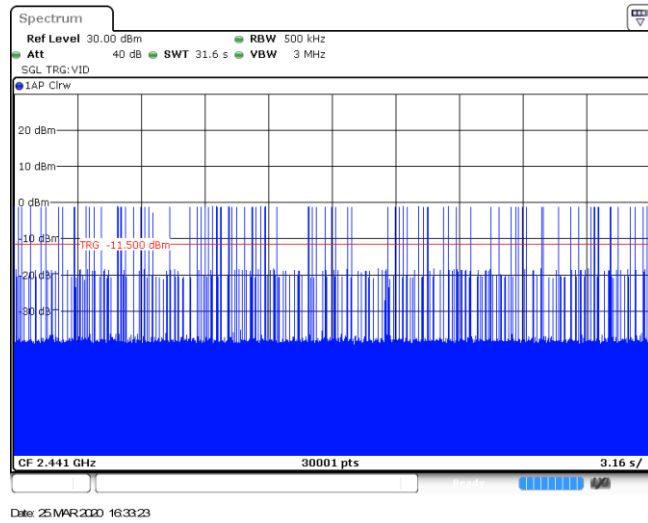
<p>GFSK</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.4 GHz 691 pts Stop 2.4835 GHz</p> <p>Date: 25 MAR 2020 16:27:57</p>
<p><math>\pi/4</math>DQPSK</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep</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>Start 2.4 GHz 691 pts Stop 2.4835 GHz</p> <p>Date: 25 MAR 2020 16:29:36</p>
<p>8DPSK</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep</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>Start 2.4 GHz 691 pts Stop 2.4835 GHz</p> <p>Date: 25 MAR 2020 16:30:55</p>

**Appendix F: Dwell Time**

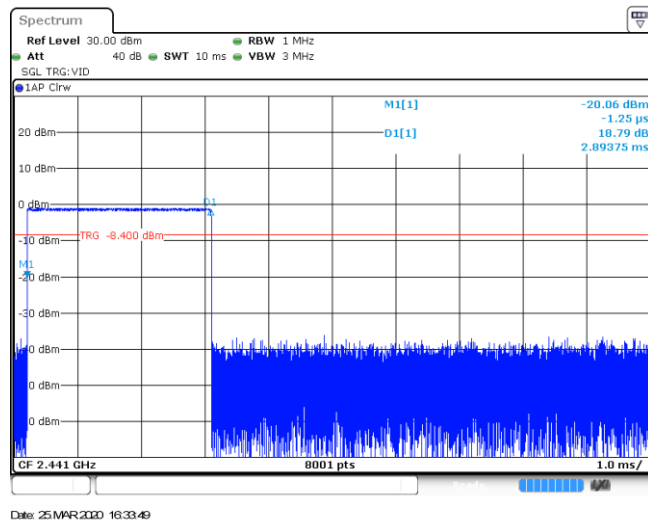
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	320	0.12	≤ 0.40	Pass
	DH3	1.65	92	0.15		
	DH5	2.89	66	0.19		
π/4DQPSK	2DH1	0.38	320	0.12	≤ 0.40	Pass
	2DH3	1.63	107	0.18		
	2DH5	2.88	68	0.20		
8DPSK	3DH1	0.38	321	0.12	≤ 0.40	Pass
	3DH3	1.63	111	0.18		
	3DH5	2.88	82	0.24		

Modulation Type: GFSK	
DH1 Burst width	<p>Date: 25 MAR 2020 16:31:54</p>
DH1 Burst number	<p>Date: 25 MAR 2020 16:32:29</p>
DH3 Burst width	<p>Date: 25 MAR 2020 16:32:49</p>

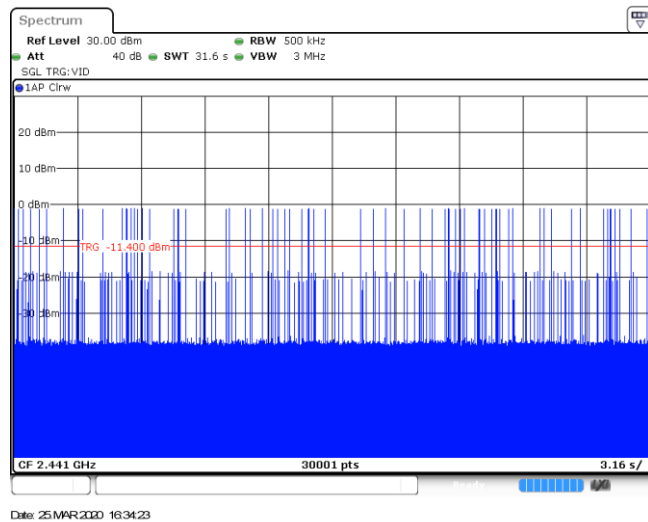
DH3  
Burst number



DH5  
Burst width

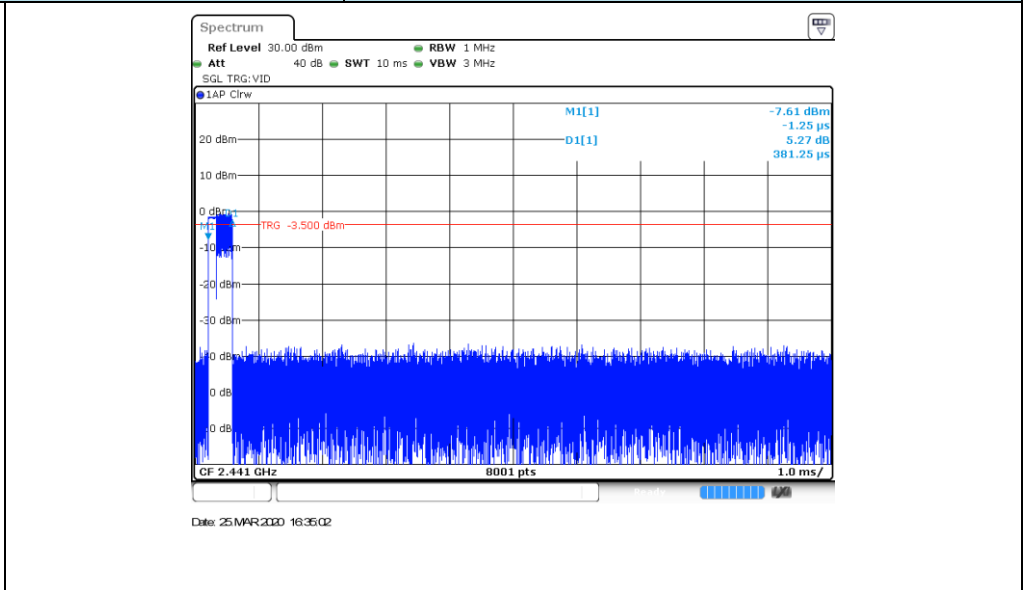


DH5  
Burst number

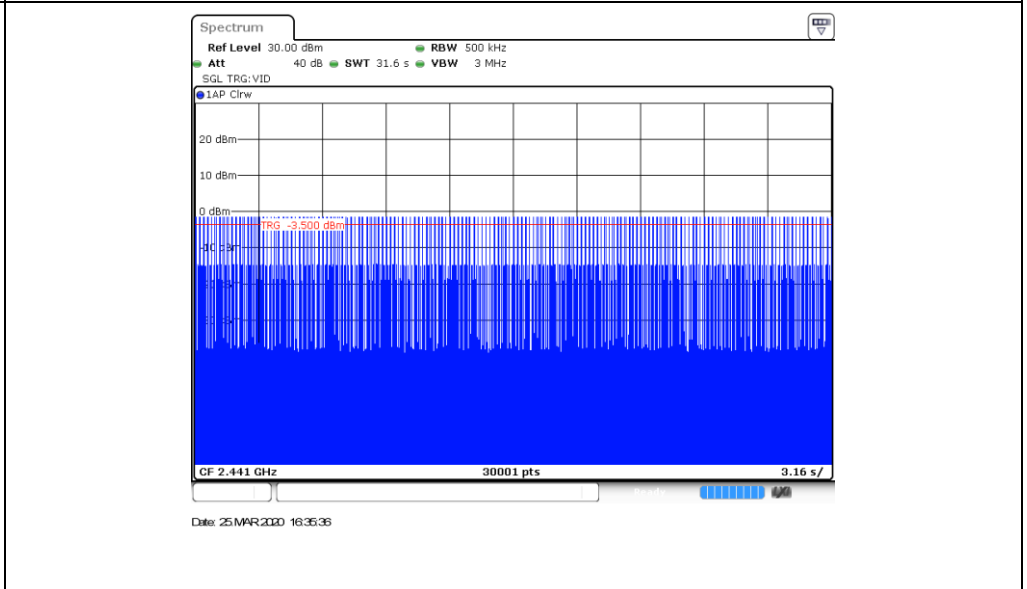


**Modulation Type:**  $\pi/4$ QPSK

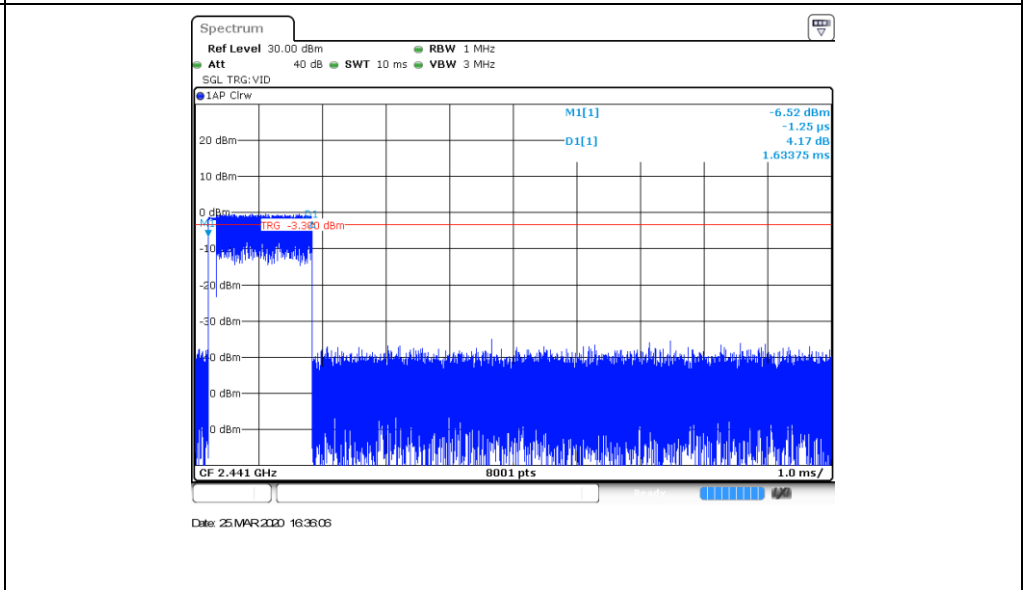
2DH1  
Burst width



2DH1  
Burst number



2DH3  
Burst width



<p>2DH3 Burst number</p>	<p>Spectrum          Ref Level 30.00 dBm          Att 40 dB          RBW 500 kHz          SWT 31.6 s          VBW 3 MHz          SGL TRG:VID          IAP Cirw          CF 2.441 GHz 30001 pts 3.16 s/          Date: 25 MAR 2020 16:33:40</p>
<p>2DH5 Burst width</p>	<p>Spectrum          Ref Level 30.00 dBm          Att 40 dB          RBW 1 MHz          SWT 10 ms          VBW 3 MHz          SGL TRG:VID          IAP Cirw          CF 2.441 GHz 8001 pts 1.0 ms/          Date: 25 MAR 2020 16:37:49</p>
<p>2DH5 Burst number</p>	<p>Spectrum          Ref Level 30.00 dBm          Att 40 dB          RBW 500 kHz          SWT 31.6 s          VBW 3 MHz          SGL TRG:VID          IAP Cirw          CF 2.441 GHz 30001 pts 3.16 s/          Date: 25 MAR 2020 16:33:24</p>

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

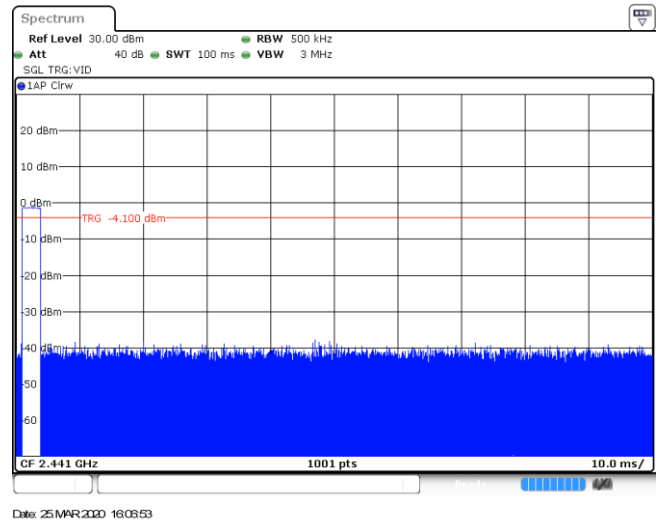
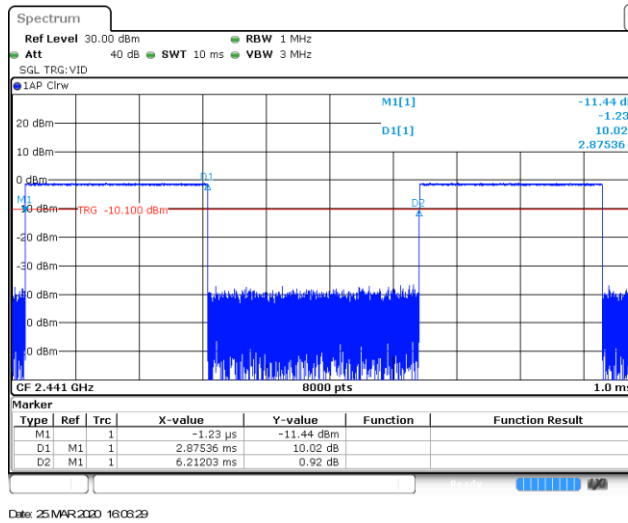
<p>3DH3 Burst number</p>	<p>Spectrum          Ref Level 30.00 dBm          Att 40 dB RBW 500 kHz          SWT 31.6 s VBW 3 MHz          SGL TRG:VID          IAP Cirw          20 dBm          10 dBm          0 dBm          -10 dBm          -20 dBm          -30 dBm          TRG -3.100 dBm          CF 2.441 GHz 30001 pts 3.16 s/          Date: 25 MAR 2020 16:40:22</p>
<p>3DH5 Burst width</p>	<p>Spectrum          Ref Level 30.00 dBm          Att 40 dB RBW 1 MHz          SWT 10 ms VBW 3 MHz          SGL TRG:VID          IAP Cirw          20 dBm          10 dBm          0 dBm          -10 dBm          -20 dBm          -30 dBm          TRG -5.700 dBm          M1[1] -23.87 dBm          -1.25 µs          D1[1] 21.80 dB          2.88125 ms          CF 2.441 GHz 8001 pts 1.0 ms/          Date: 25 MAR 2020 16:40:42</p>
<p>3DH5 Burst number</p>	<p>Spectrum          Ref Level 30.00 dBm          Att 40 dB RBW 500 kHz          SWT 31.6 s VBW 3 MHz          SGL TRG:VID          IAP Cirw          20 dBm          10 dBm          0 dBm          -10 dBm          -20 dBm          -30 dBm          TRG -8.700 dBm          CF 2.441 GHz 30001 pts 3.16 s/          Date: 25 MAR 2020 16:41:17</p>



**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	2.88	100	1	-30.81
$\pi/4$ DQPSK	2441	2.86	100	2	-24.85
8DPSK	2441	2.86	100	1	-30.87

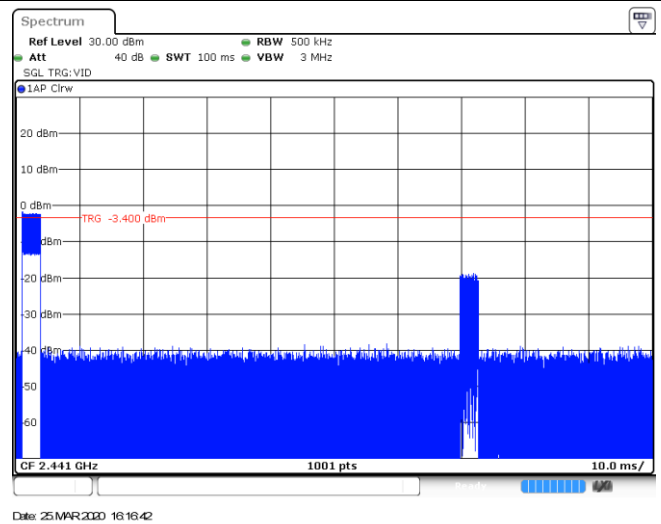
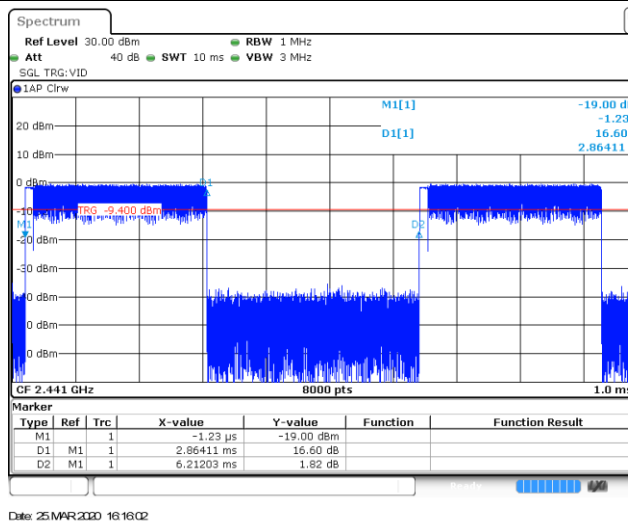
GFSK



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

Burst Quantity

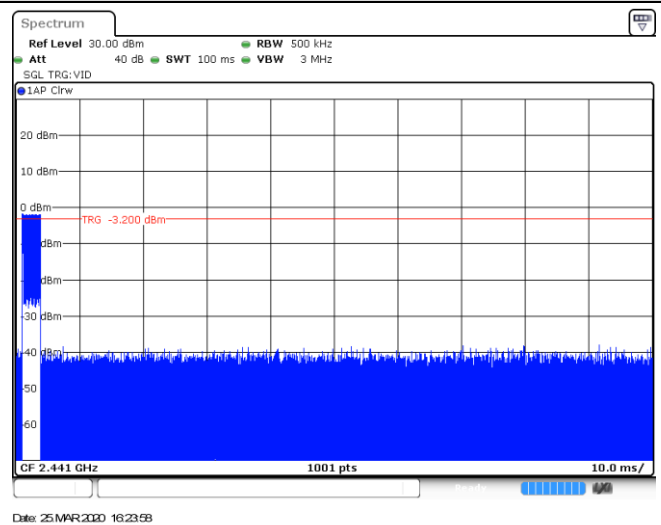
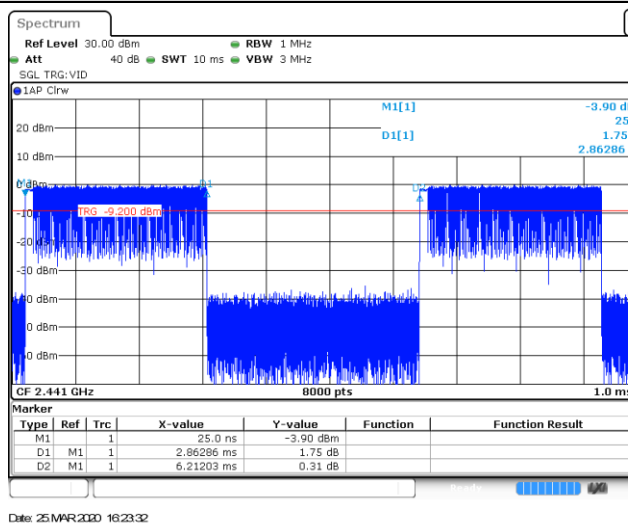
$\pi/4$  DQPSK



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

Burst Quantity

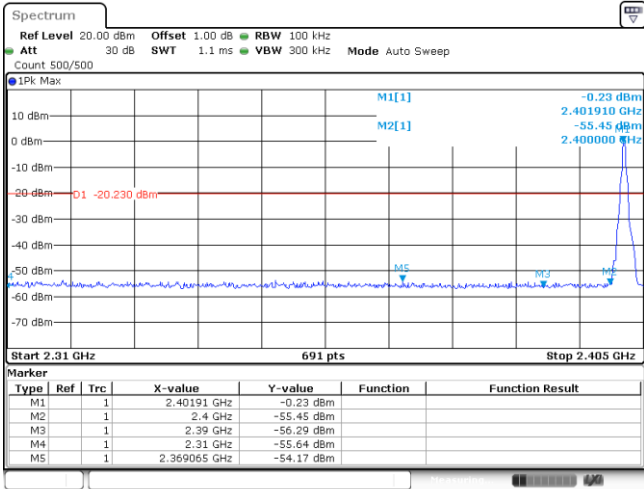
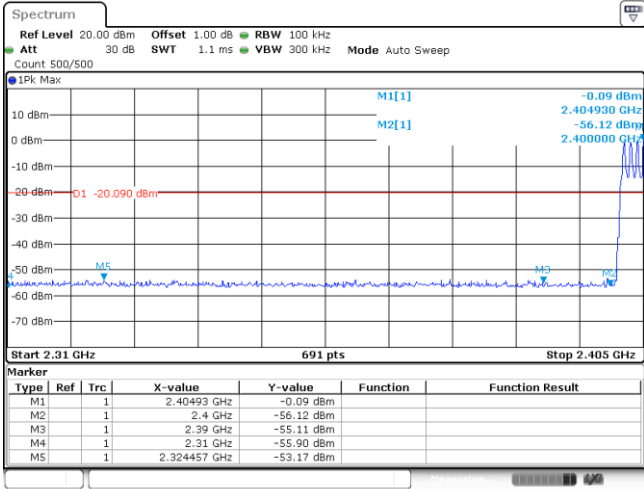
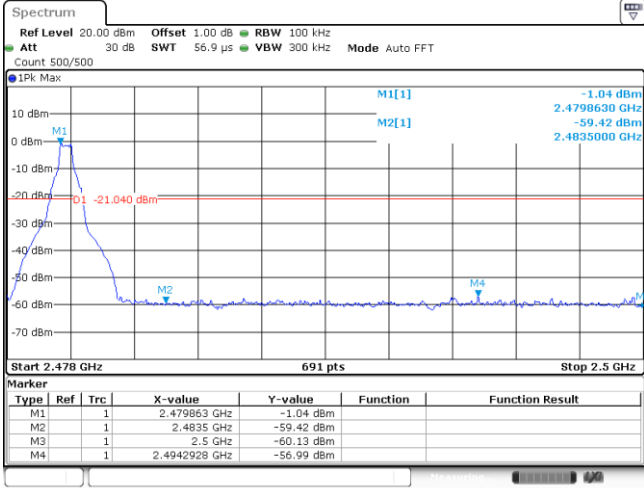
8DPSK



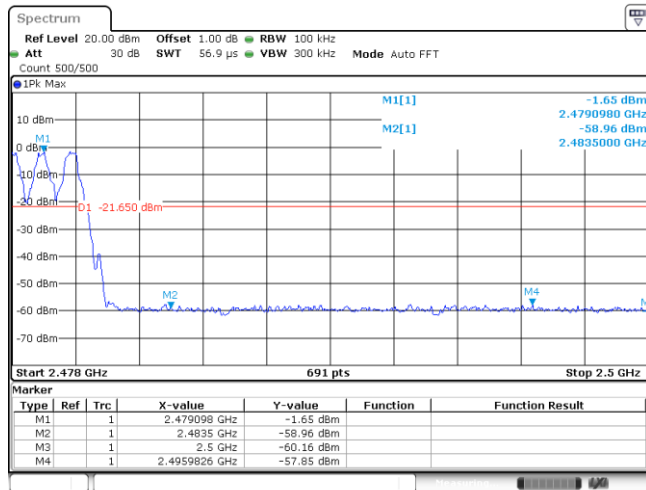
T<sub>on</sub> time for single burst

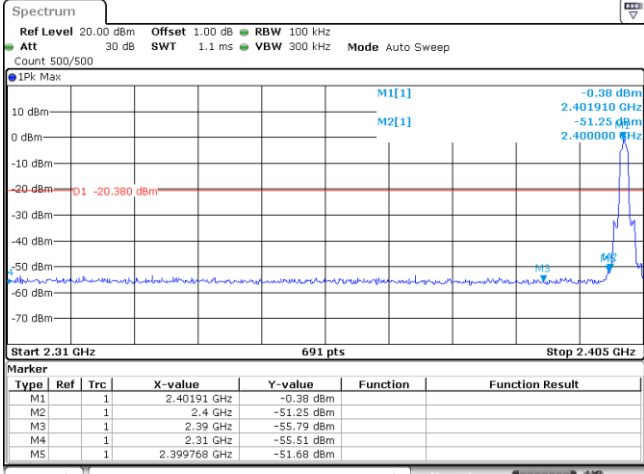
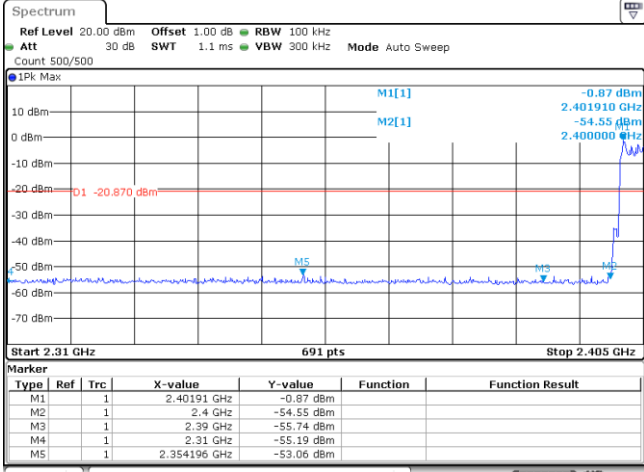
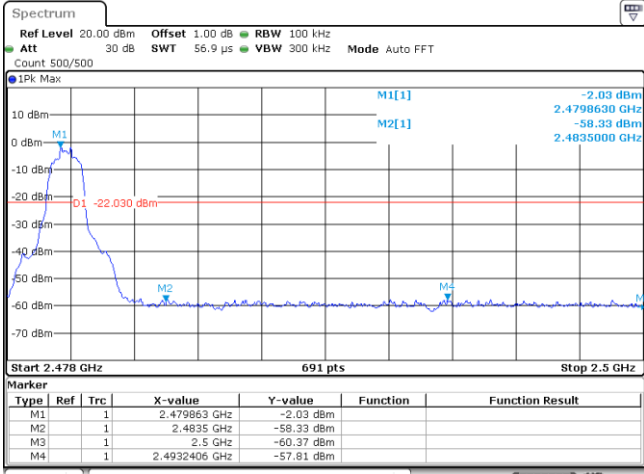
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

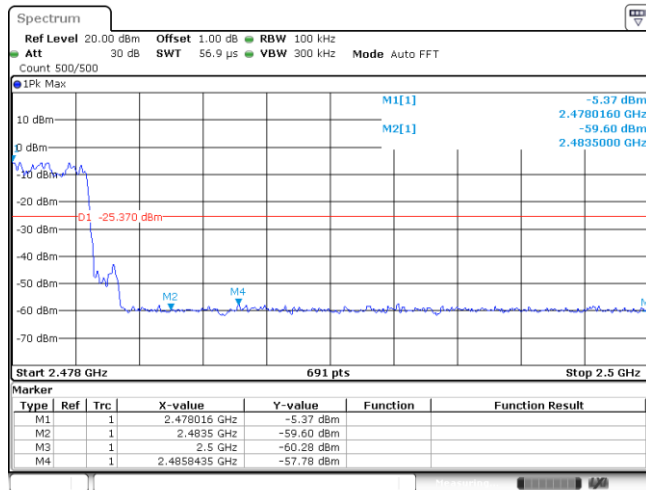
Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40191 GHz</td> <td>-0.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-55.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-56.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.369065 GHz</td> <td>-54.17 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 25 MAR 2020 16:03:00</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40191 GHz	-0.23 dBm			M2	1	1	2.4 GHz	-55.45 dBm			M3	1	1	2.39 GHz	-56.29 dBm			M4	1	1	2.31 GHz	-55.64 dBm			M5	1	1	2.369065 GHz	-54.17 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1	1	2.40191 GHz	-0.23 dBm																																									
M2	1	1	2.4 GHz	-55.45 dBm																																									
M3	1	1	2.39 GHz	-56.29 dBm																																									
M4	1	1	2.31 GHz	-55.64 dBm																																									
M5	1	1	2.369065 GHz	-54.17 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>1</td> <td>1</td> <td>2.40493 GHz</td> <td>-0.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-56.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-55.11 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.324457 GHz</td> <td>-53.17 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 25 MAR 2020 16:28:11</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40493 GHz	-0.09 dBm			M2	1	1	2.4 GHz	-56.12 dBm			M3	1	1	2.39 GHz	-55.11 dBm			M4	1	1	2.31 GHz	-55.90 dBm			M5	1	1	2.324457 GHz	-53.17 dBm		
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<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>1</td> <td>1</td> <td>2.479863 GHz</td> <td>-1.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4835 GHz</td> <td>-59.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.5 GHz</td> <td>-60.13 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.4942928 GHz</td> <td>-56.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 25 MAR 2020 16:03:59</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.479863 GHz	-1.04 dBm			M2	1	1	2.4835 GHz	-59.42 dBm			M3	1	1	2.5 GHz	-60.13 dBm			M4	1	1	2.4942928 GHz	-56.99 dBm									
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CH78  
Hopping mode



Test Item:	Band edge	Modulation type:	π/4DQPSK																																										
<p>CH00 No hopping mode</p>	 <p>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</p> <p>1Pk Max</p> <p>M1[1] -0.38 dBm 2.401910 GHz M2[1] -51.25 dBm 2.400000 GHz</p> <p>D1 -20.390 dBm</p> <p>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>1</td> <td>2.40191 GHz</td> <td>-0.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-51.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-55.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.51 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399768 GHz</td> <td>-51.68 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 25 MAR 2020 16:12:28</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40191 GHz	-0.38 dBm			M2	1	1	2.4 GHz	-51.25 dBm			M3	1	1	2.39 GHz	-55.79 dBm			M4	1	1	2.31 GHz	-55.51 dBm			M5	1	1	2.399768 GHz	-51.68 dBm		
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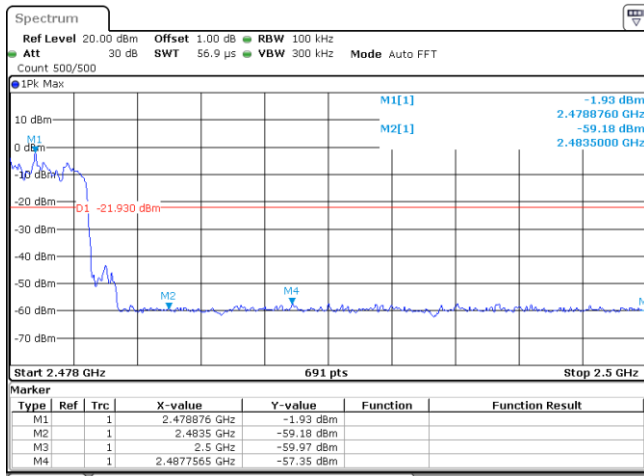
CH78  
Hopping mode



Date: 25 MAR 2020 16:30:04

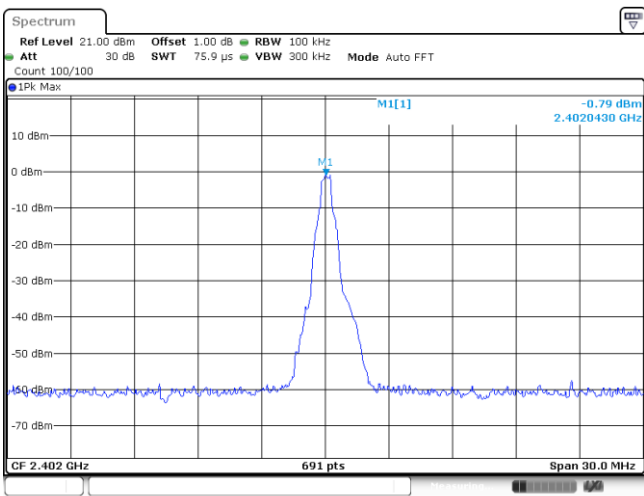
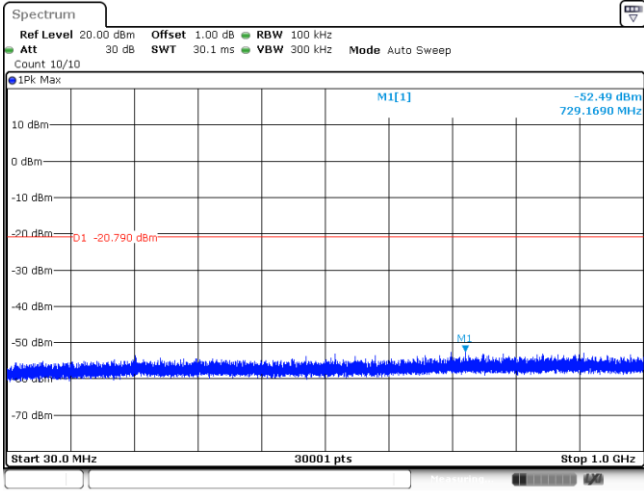
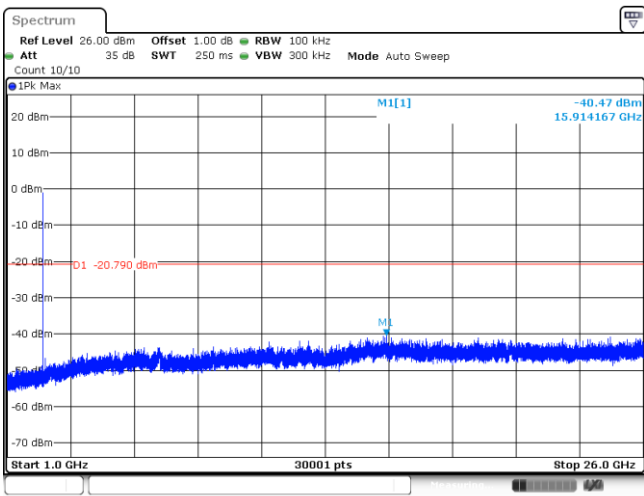
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1Pk Max</p> <p>M1[1] -0.35 dBm 2.401910 GHz M2[1] -51.25 dBm 2.400000 GHz</p> <p>D1 -20.350 dBm</p> <p>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>1</td> <td>2.40191 GHz</td> <td>-0.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-51.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-55.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399768 GHz</td> <td>-51.71 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 25 MAR 2020 16:20:41</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40191 GHz	-0.35 dBm			M2	1	1	2.4 GHz	-51.25 dBm			M3	1	1	2.39 GHz	-55.65 dBm			M4	1	1	2.31 GHz	-55.30 dBm			M5	1	1	2.399768 GHz	-51.71 dBm		
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<p>CH78 No hopping mode</p>	<p>Spectrum</p> <p>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</p> <p>1Pk Max</p> <p>M1[1] -2.04 dBm 2.4802130 GHz M2[1] -60.23 dBm 2.4835000 GHz</p> <p>D1 -22.040 dBm</p> <p>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>1</td> <td>2.480213 GHz</td> <td>-2.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4835 GHz</td> <td>-60.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.5 GHz</td> <td>-59.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.4878522 GHz</td> <td>-57.82 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 25 MAR 2020 16:28:04</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.480213 GHz	-2.04 dBm			M2	1	1	2.4835 GHz	-60.23 dBm			M3	1	1	2.5 GHz	-59.79 dBm			M4	1	1	2.4878522 GHz	-57.82 dBm									
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CH78  
Hoppig mode

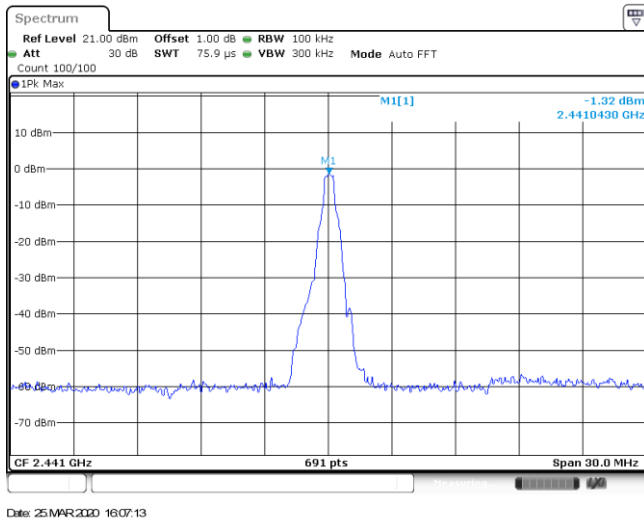


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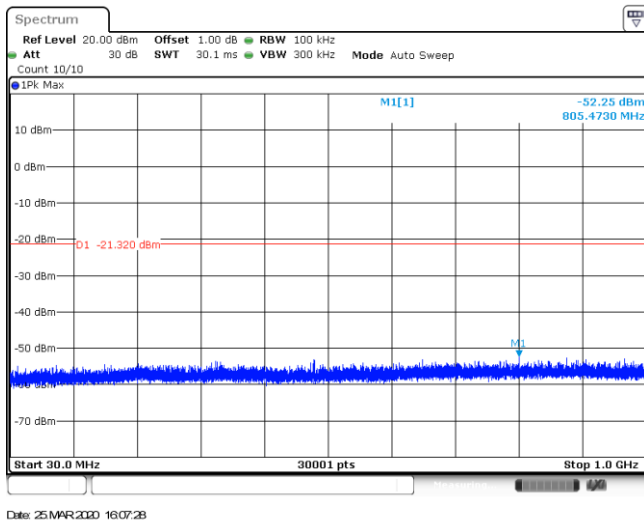


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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 25 MAR 2020 16:03:24</p>		
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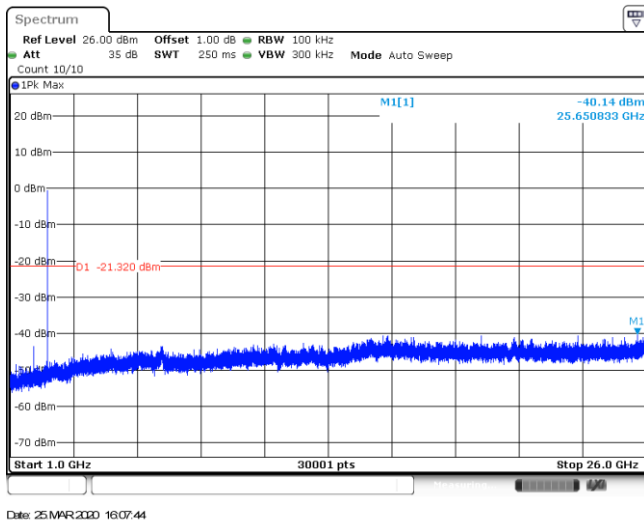
CH39  
Reference level



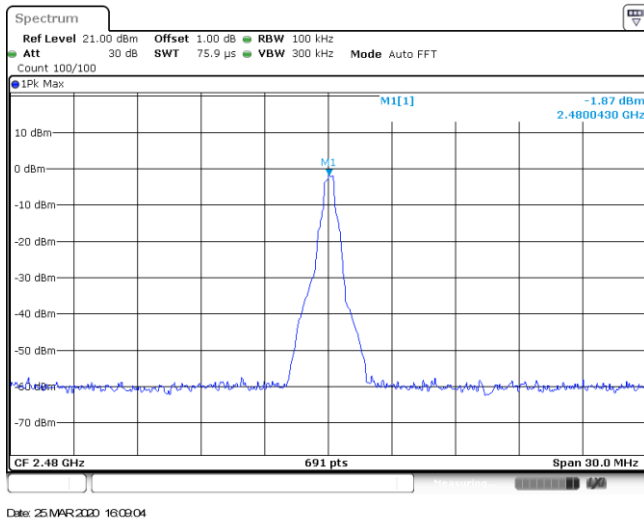
CH39  
30MHz~1000MHz



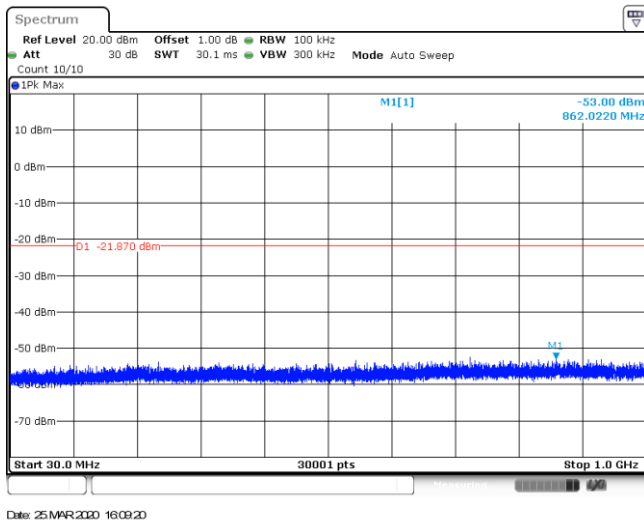
CH39  
1GHz~26GHz



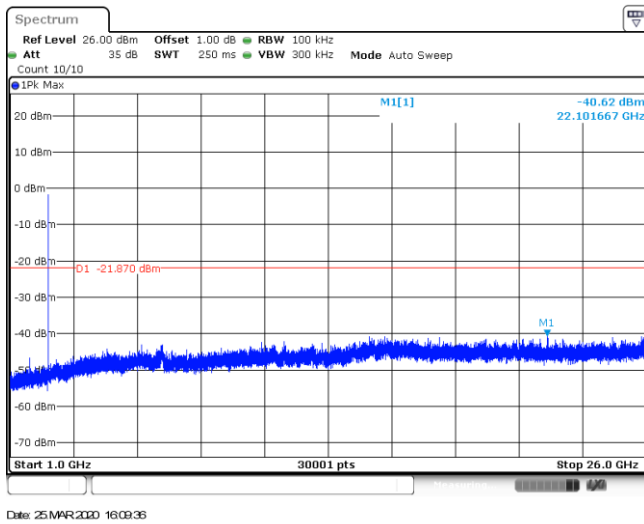
CH78  
Reference level

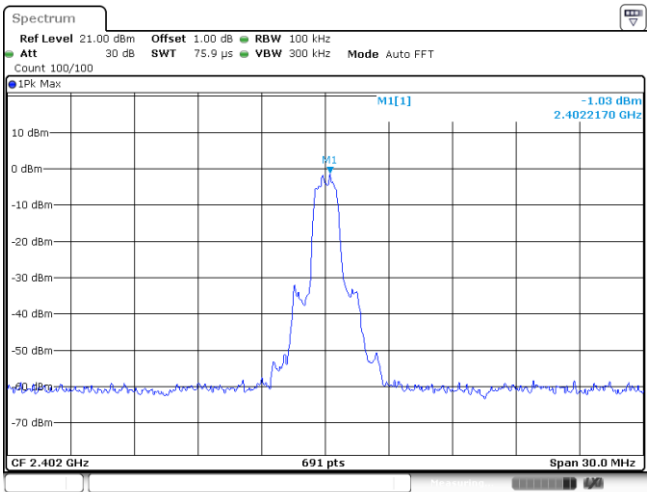
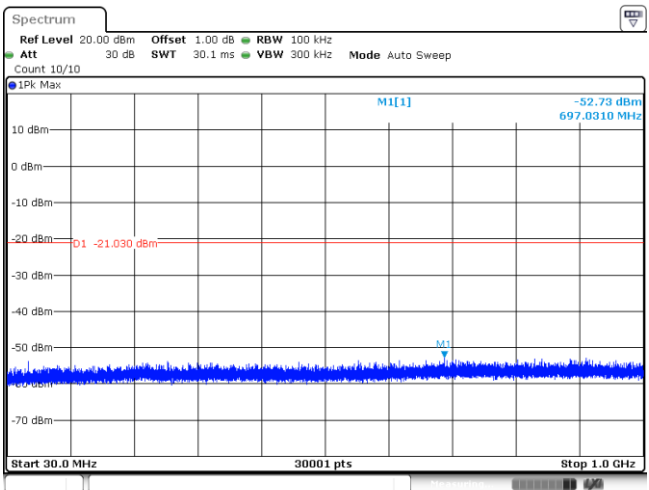
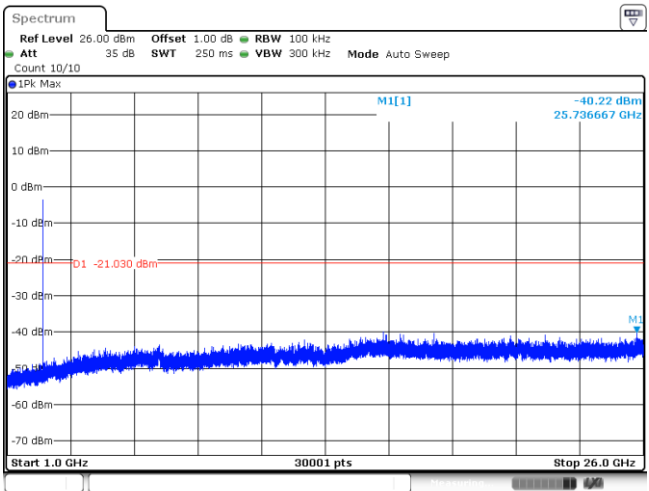


CH78  
30MHz~1000MHz



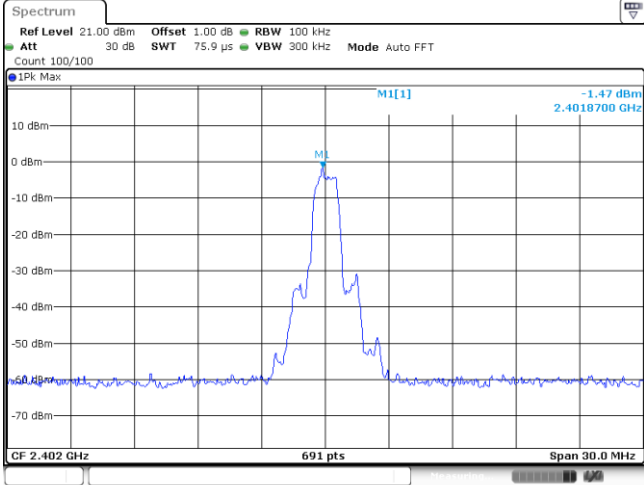
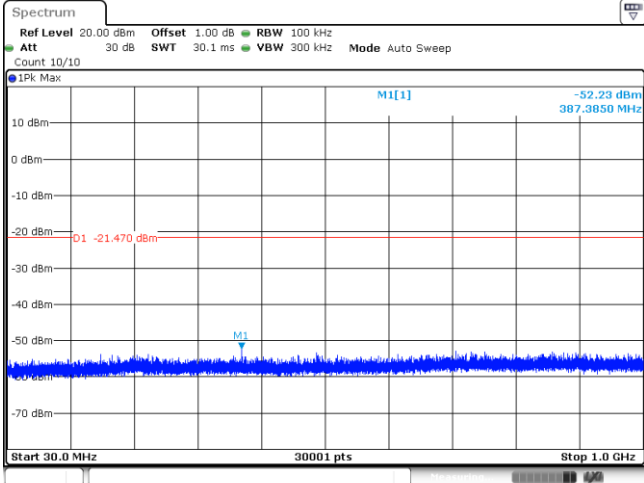
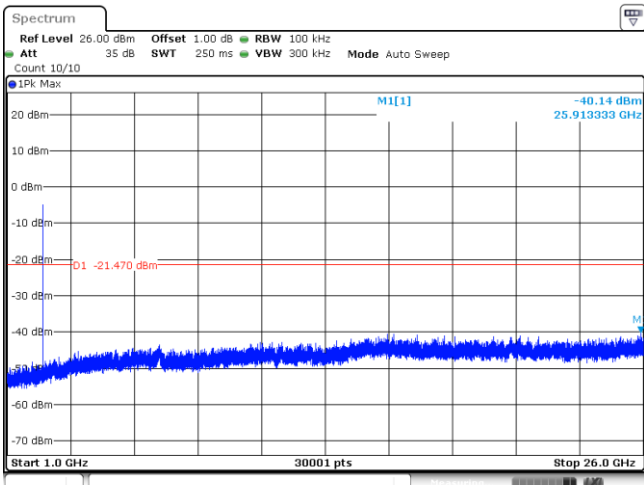
CH78  
1GHz~26GHz



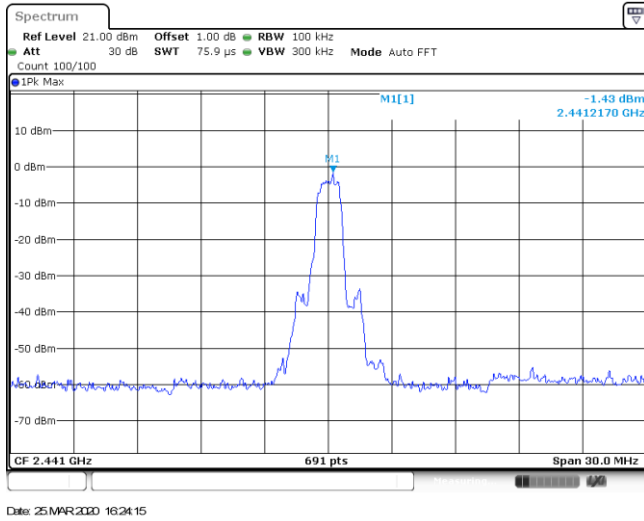
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] -1.03 dBm 2.4022170 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 25 MAR 2020 16:12:34</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] -52.73 dBm 697.0310 MHz</p> <p>D1 -21.030 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 25 MAR 2020 16:12:50</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] -40.22 dBm 25.736667 GHz</p> <p>D1 -21.030 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 25 MAR 2020 16:13:05</p>		

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

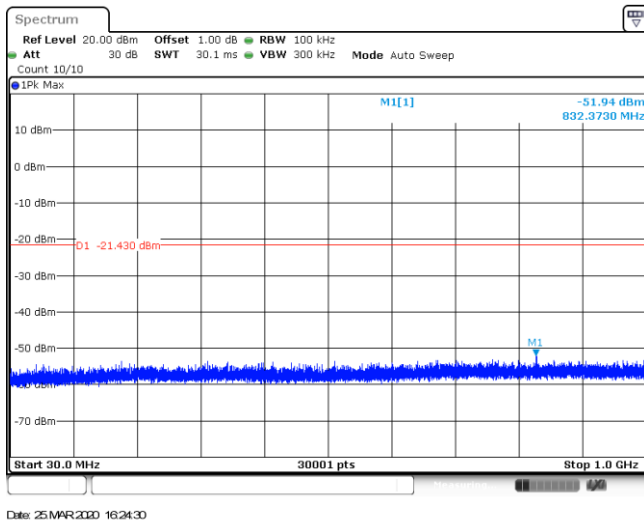
<p>CH78 Reference level</p>	
<p>CH78 30MHz~1000MHz</p>	
<p>CH78 1GHz~26GHz</p>	

Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>Spectrum                      Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz                      Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT                      Count 100/100                      1Pk Max                      -1.47 dBm                      2.4018700 GHz                      M1[1]                      M1                      CF 2.402 GHz 691 pts Span 30.0 MHz                      Date: 25 MAR 2020 16:20:47</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                      -52.23 dBm                      387.3850 MHz                      M1[1]                      M1                      Start 30.0 MHz 30001 pts Stop 1.0 GHz                      Date: 25 MAR 2020 16:21:03</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                      -40.14 dBm                      25.913333 GHz                      M1[1]                      M1                      Start 1.0 GHz 30001 pts Stop 26.0 GHz                      Date: 25 MAR 2020 16:21:19</p>		

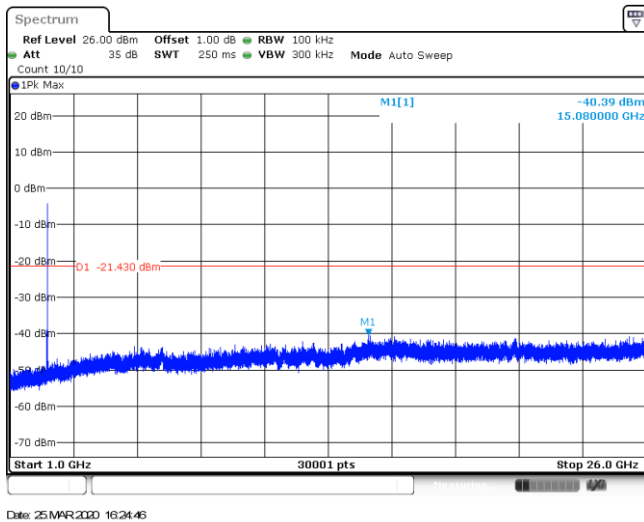
CH39  
Reference level



CH39  
30MHz~1000MHz

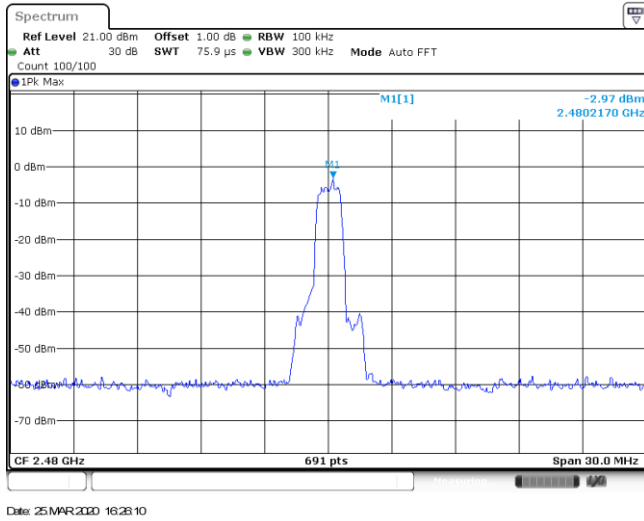


CH39  
1GHz~26GHz

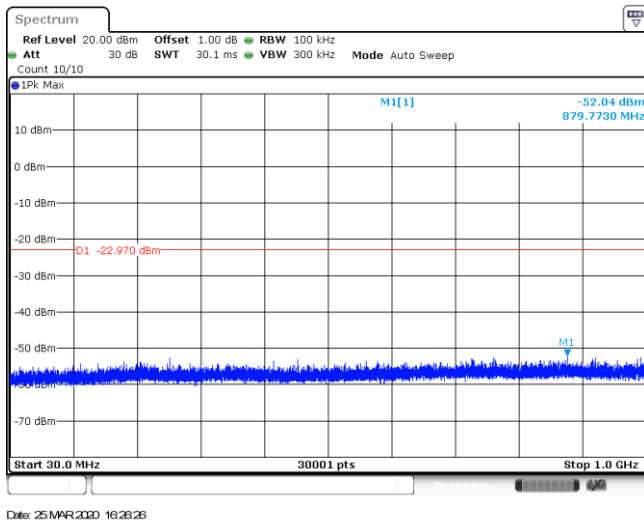




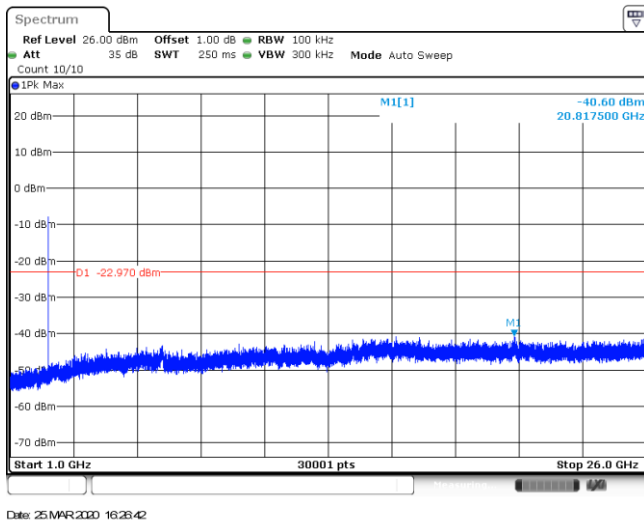
CH78  
Reference level



CH78  
30MHz~1000MHz



CH78  
1GHz~26GHz



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