

APPENDIX REPORT

Project No.	SHT2010078801EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20100788004	Model No.	CN6Q15
Start test date	2020/11/2	Finish date	2020/11/2
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

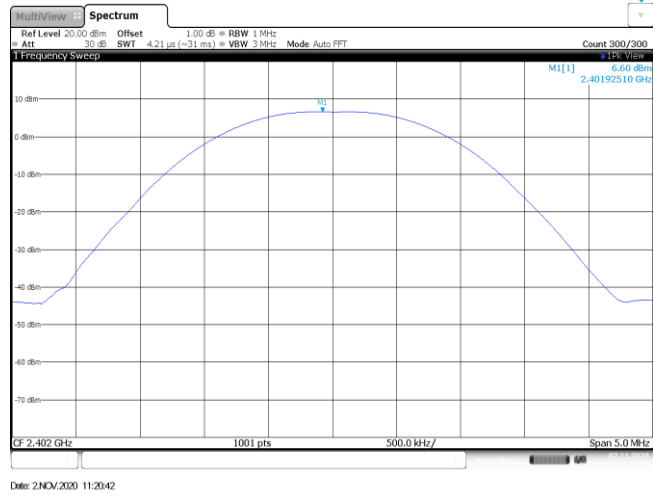
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(ducted)	PASS

Appendix A: Peak Output Power

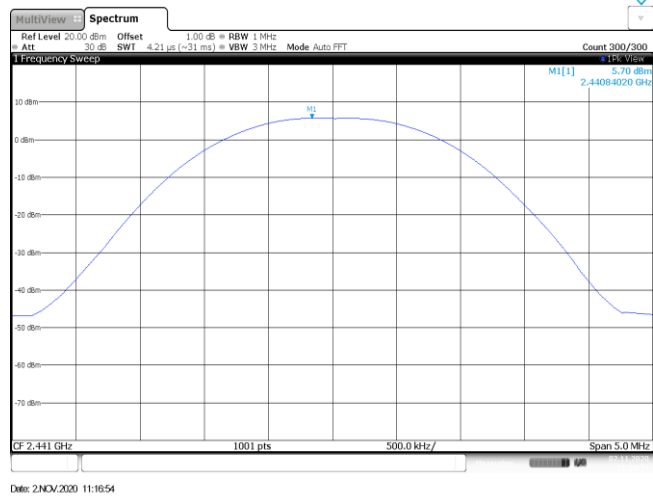
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	6.60	6.58	≤ 30.00	Pass
	39	5.70	5.69		
	78	5.44	5.42		
π/4DQPSK	00	6.65	6.48	≤ 21.00	Pass
	39	6.16	6.07		
	78	5.92	5.86		
8DPSK	00	6.71	6.18	≤ 21.00	Pass
	39	6.32	5.77		
	78	6.12	5.56		

Modulation Type: GFSK

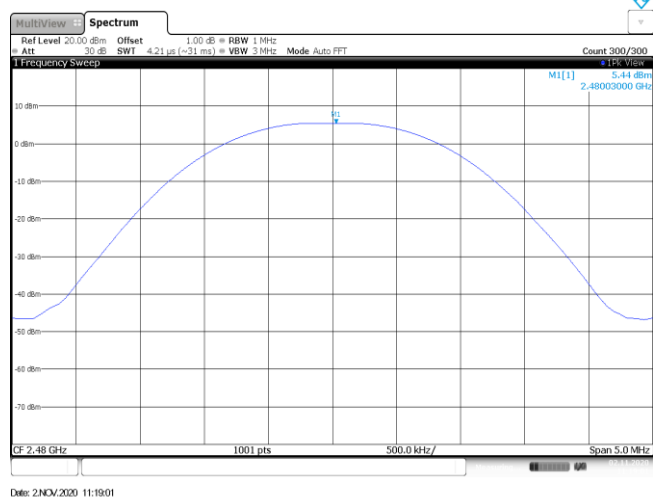
CH00



CH39

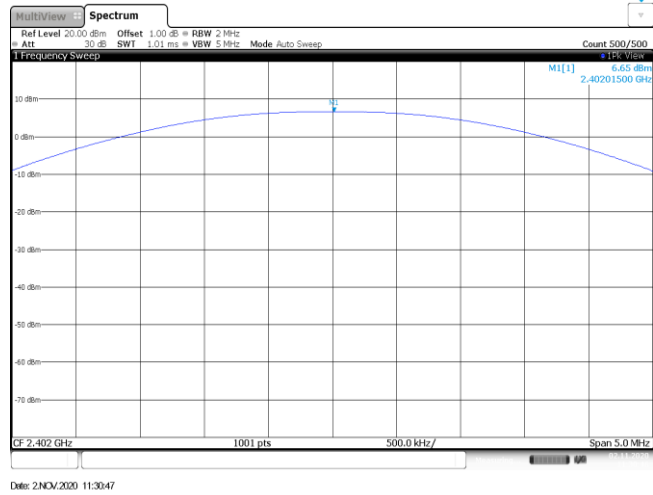


CH78

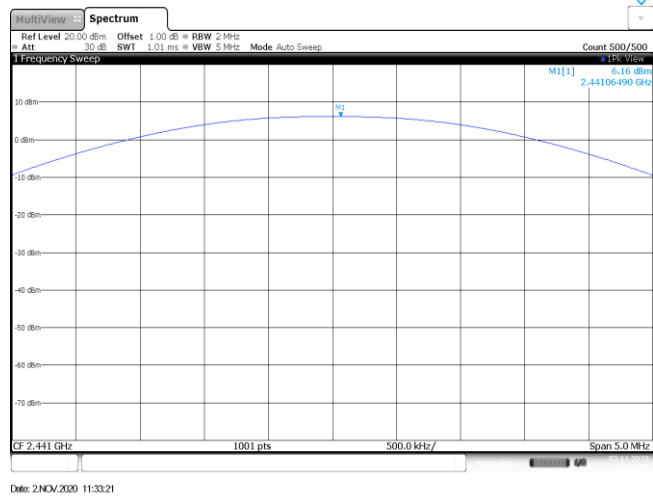


Modulation Type: $\pi/4$ DQPSK

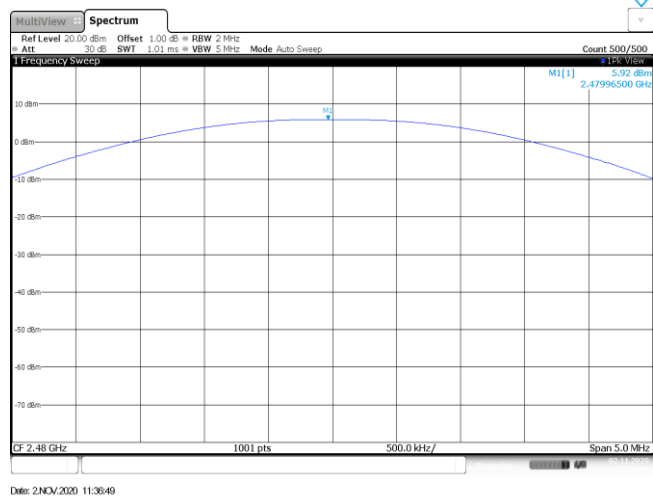
CH00



CH39

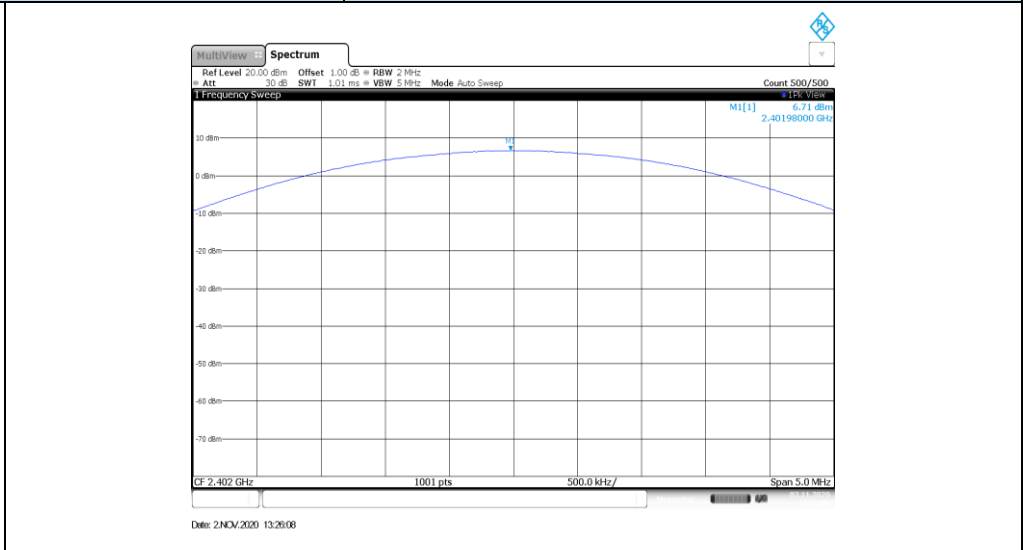


CH78

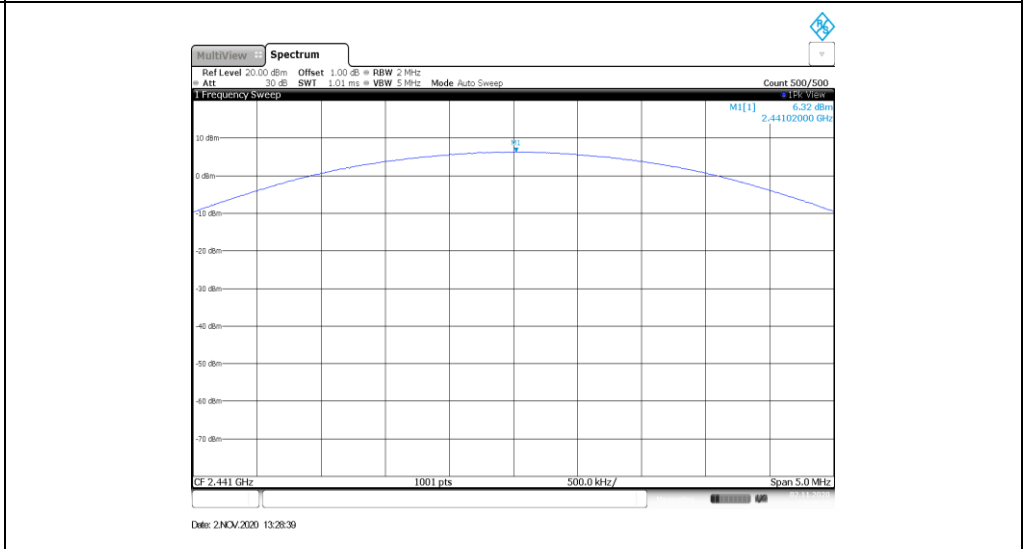


Modulation Type: 8DPSK

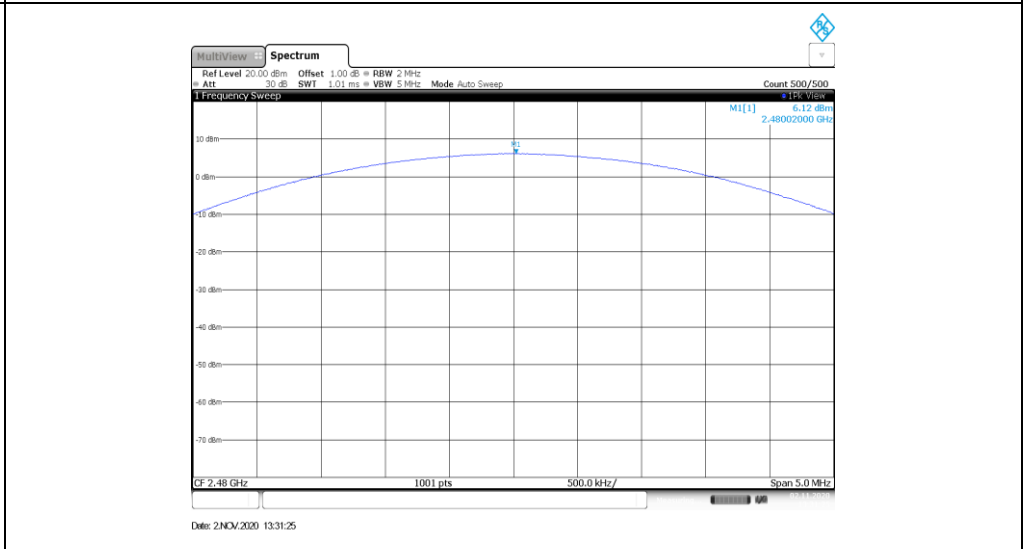
CH00



CH39



CH78

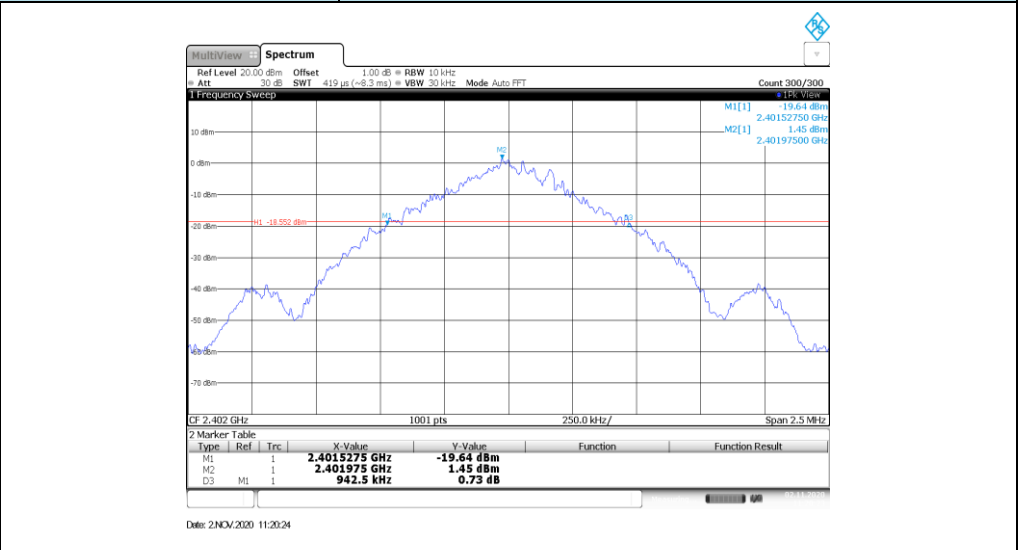


Appendix B : 20 dB Bandwidth

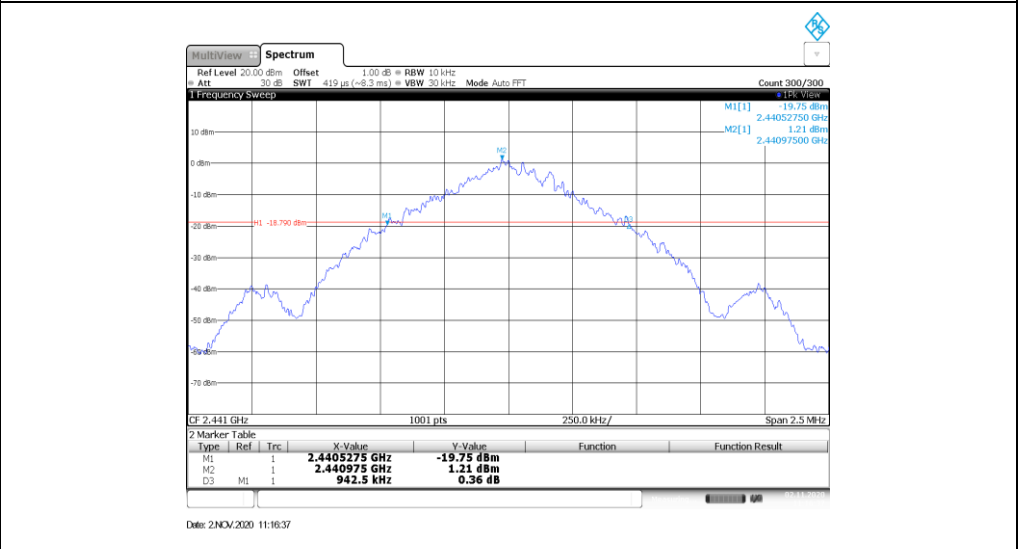
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	942.50	-	Pass
	39	942.50		
	78	942.50		
$\pi/4$ DQPSK	00	1285.00	-	Pass
	39	1280.00		
	78	1267.50		
8DPSK	00	1290.00	-	Pass
	39	1280.00		
	78	1267.50		

Modulation Type: GFSK

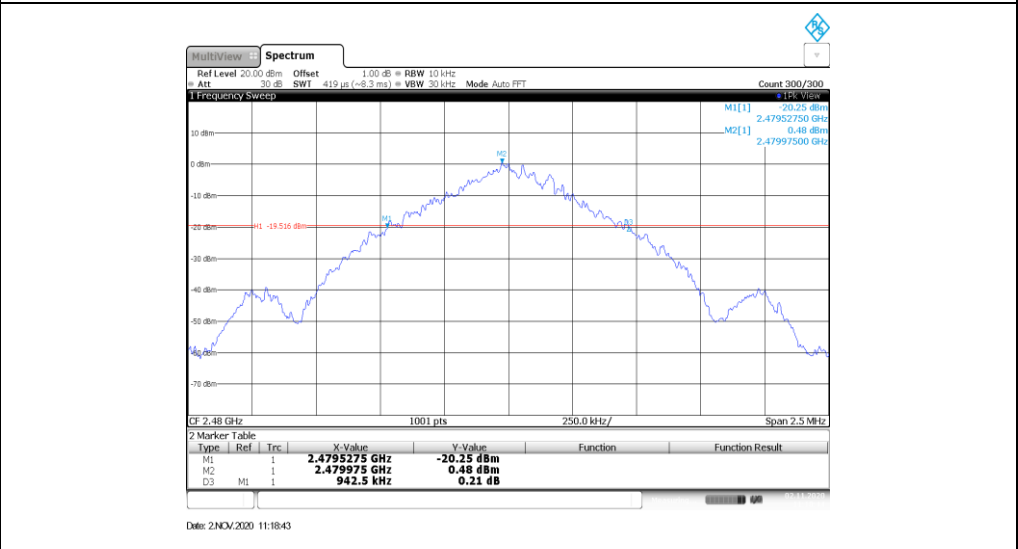
CH00



CH39

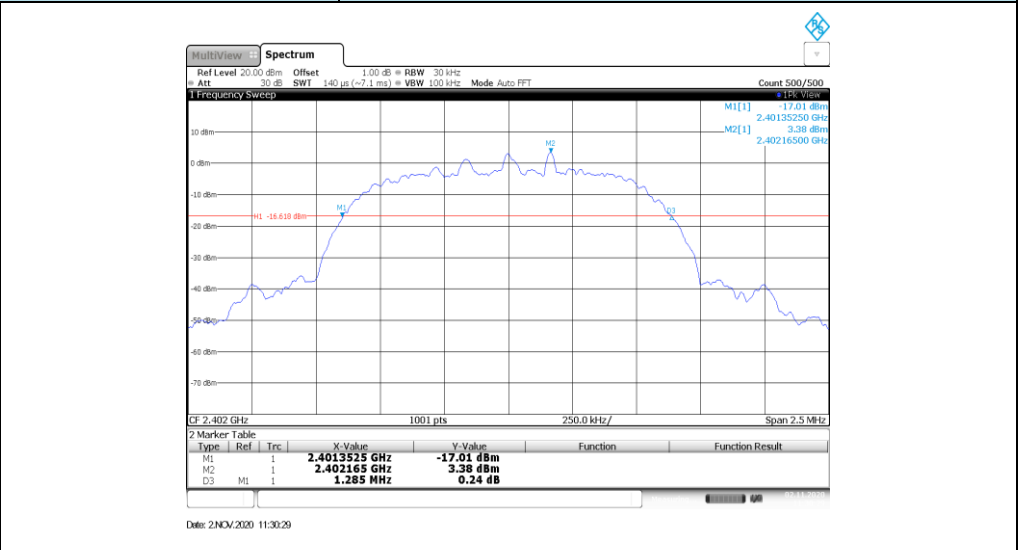


CH78

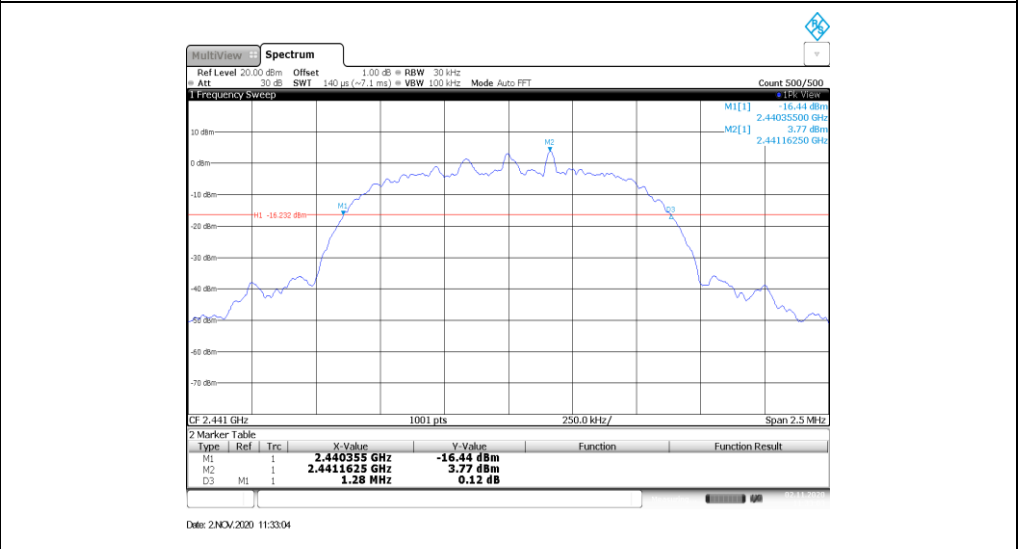


Modulation Type: $\pi/4$ DQPSK

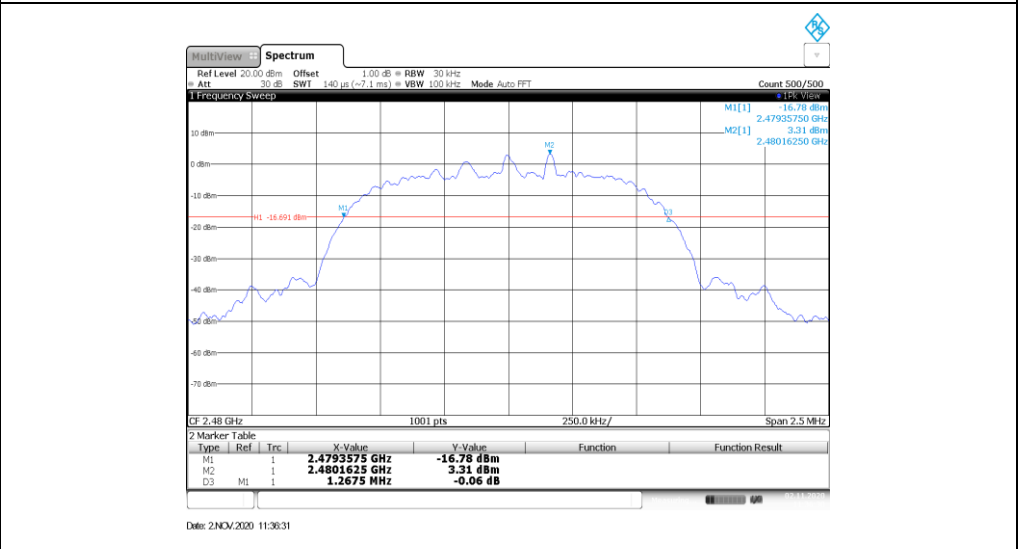
CH00



CH39

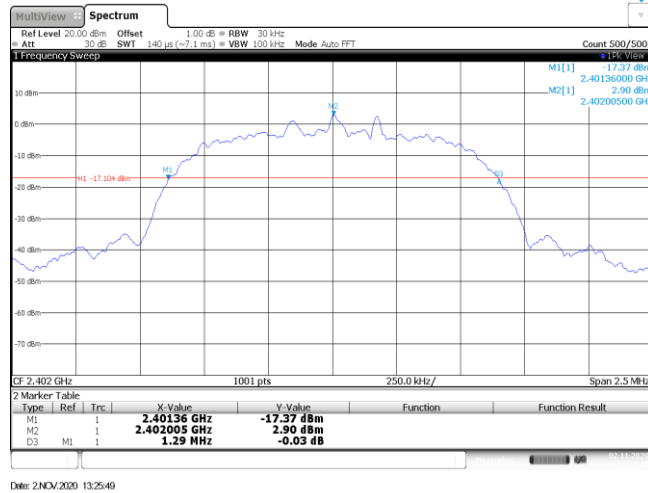


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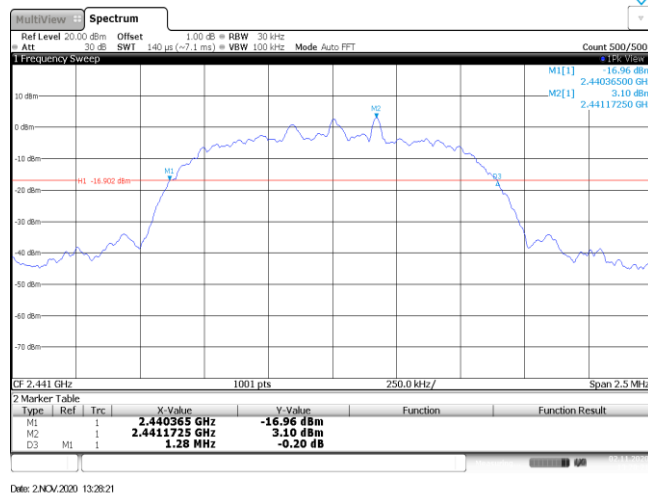


Modulation Type: 8DPSK

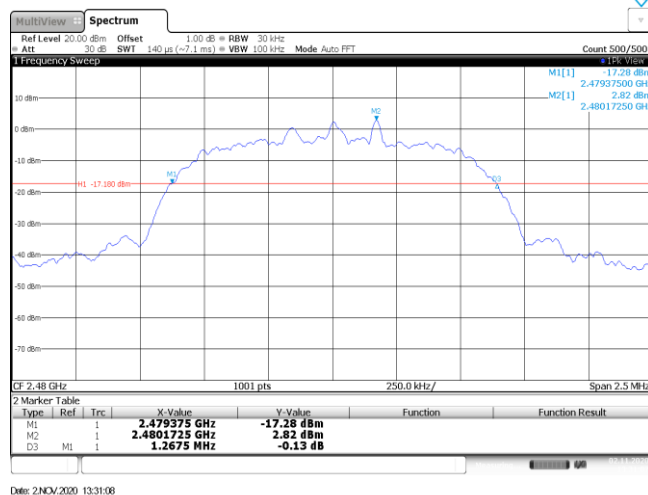
CH00



CH39



CH78

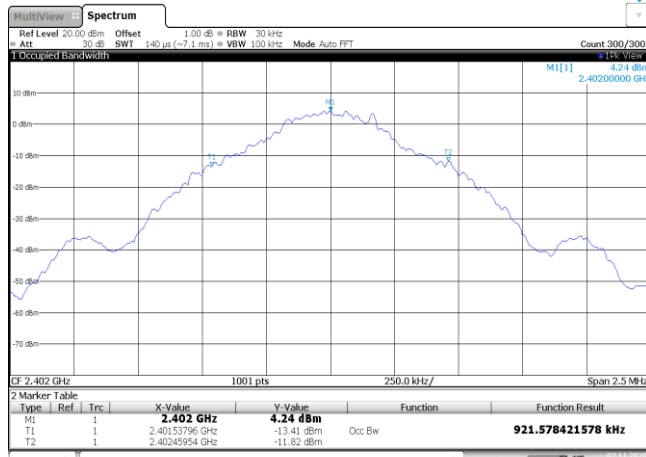


Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.92	-	Pass
	39	0.92		
	78	0.92		
$\pi/4$ DQPSK	00	1.17	-	Pass
	39	1.17		
	78	1.17		
8DPSK	00	1.16	-	Pass
	39	1.16		
	78	1.16		

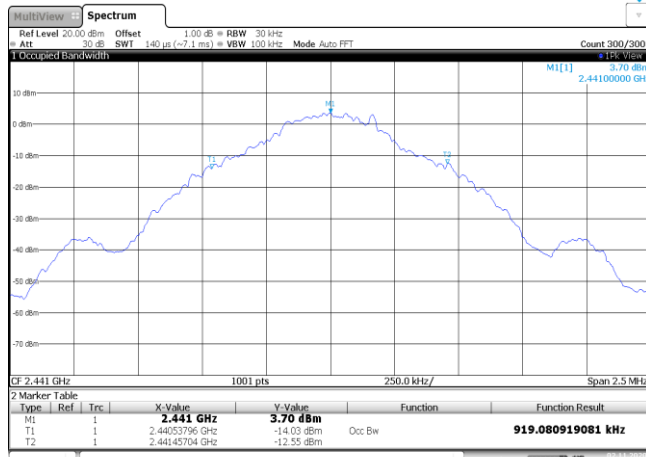
Modulation Type: GFSK

CH00



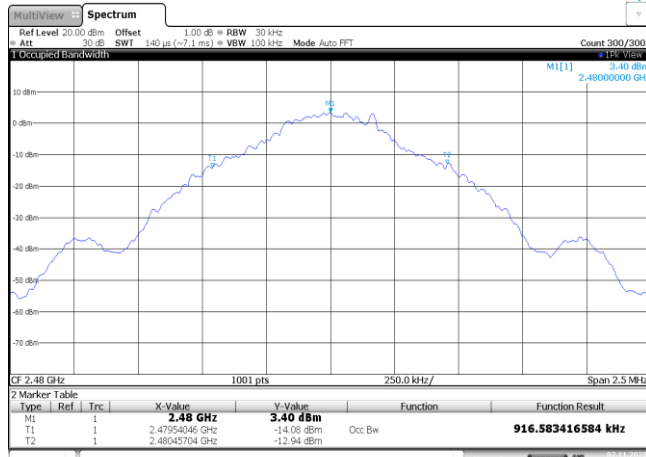
Date: 2 NOV 2020 11:20:32

CH39



Date: 2 NOV 2020 11:16:45

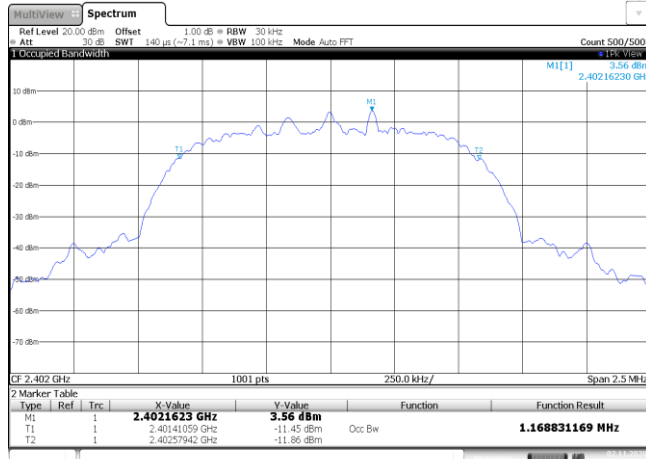
CH78



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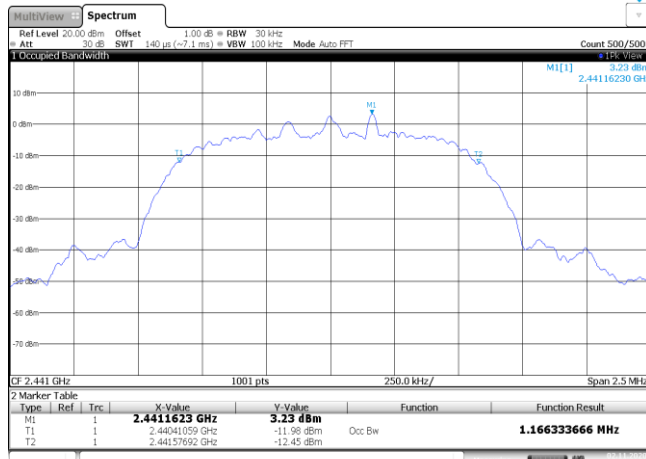
Modulation Type: $\pi/4$ DQPSK

CH00



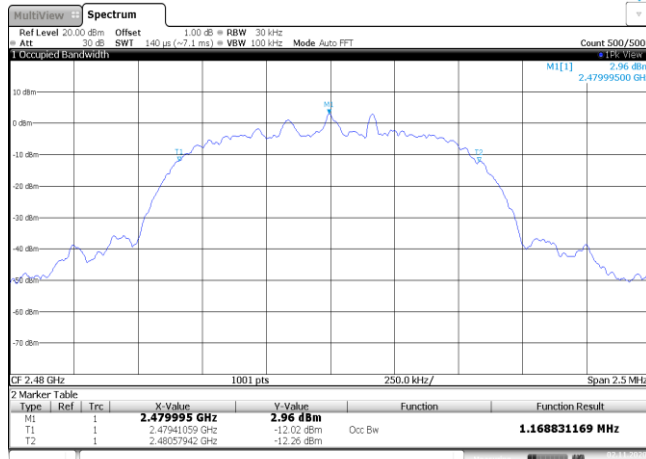
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CH39



Date: 2 NOV 2020 11:33:12

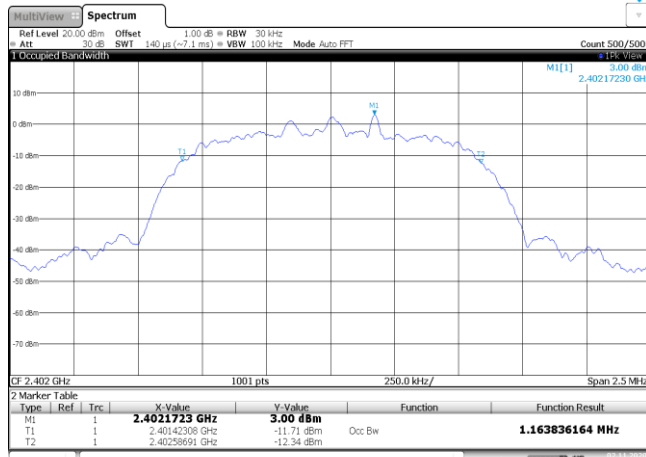
CH78



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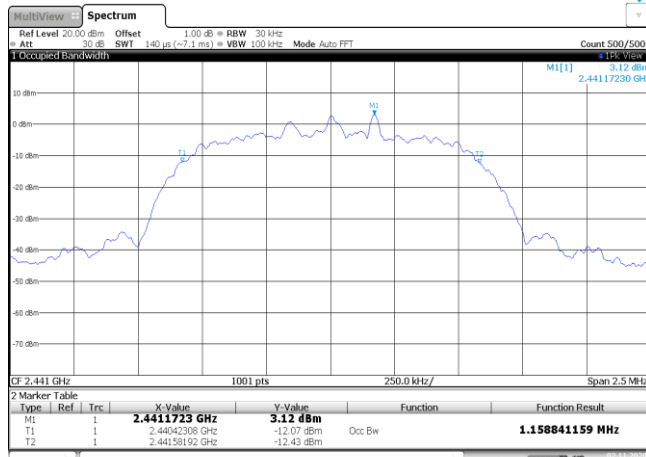
Modulation Type: 8DPSK

CH00



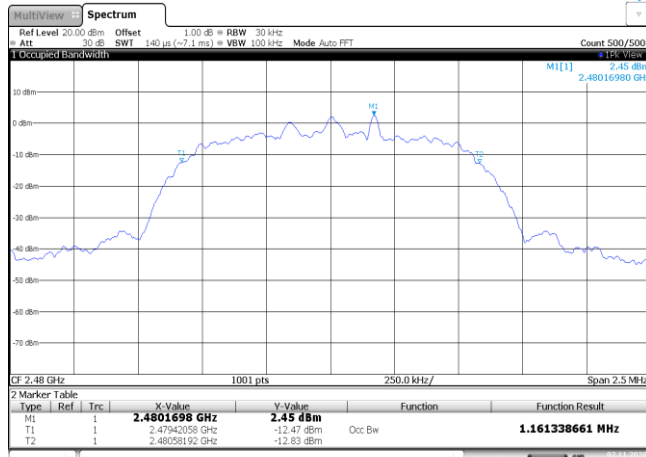
Date: 2 NOV 2020 13:25:57

CH39



Date: 2 NOV 2020 13:28:29

CH78



Date: 2 NOV 2020 13:31:16

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥942.50	Pass
π/4DQPSK	0	1.00	≥856.67	Pass
8DPSK	0	1.00	≥860.00	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.

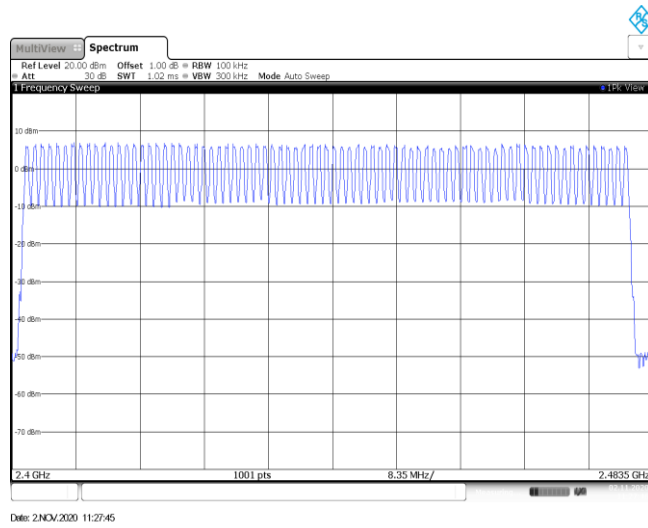
8DPSK limit = 2/3 * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

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

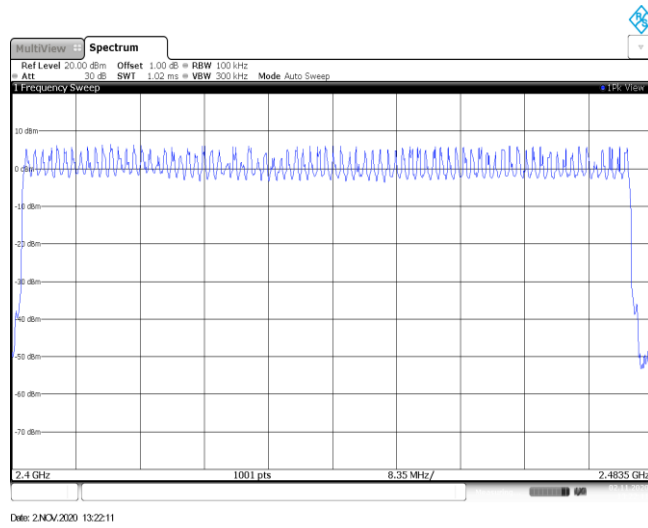
Appendix E: Hopping Channel Number

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

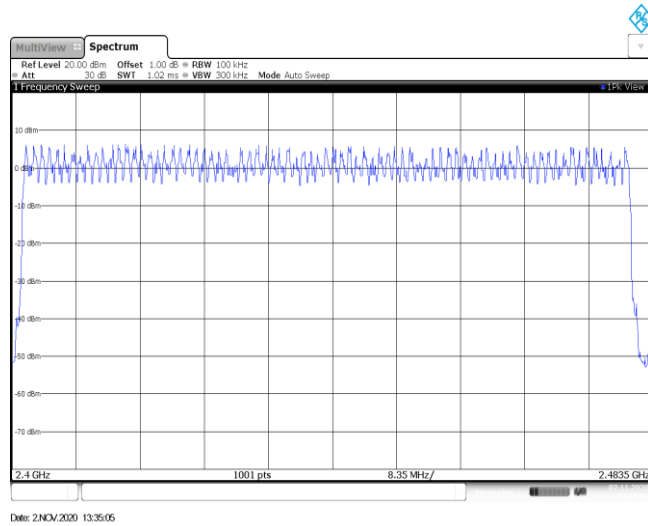
GFSK



$\pi/4$ DQPSK



8DPSK

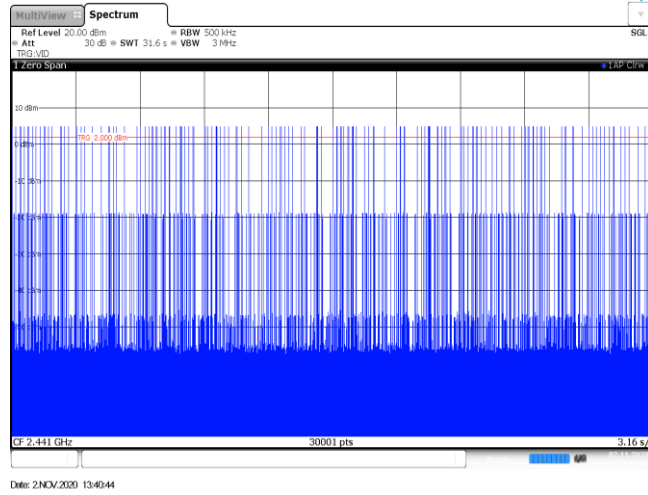


Appendix F: Dwell Time

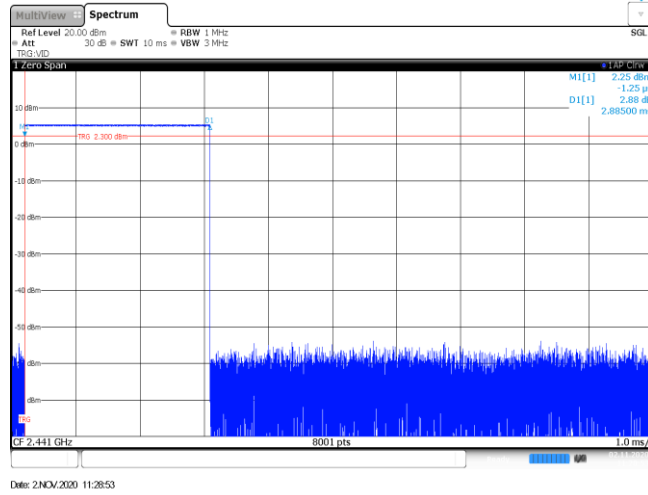
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	319.00	0.12	≤ 0.40	Pass
	DH3	1.64	153.00	0.25		
	DH5	2.89	113.00	0.33		
π/4DQPSK	2DH1	0.39	315.00	0.12	≤ 0.40	Pass
	2DH3	1.64	165.00	0.27		
	2DH5	2.89	120.00	0.35		
8DPSK	3DH1	0.39	318.00	0.12	≤ 0.40	Pass
	3DH3	1.64	157.00	0.26		
	3DH5	2.89	94.00	0.27		

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

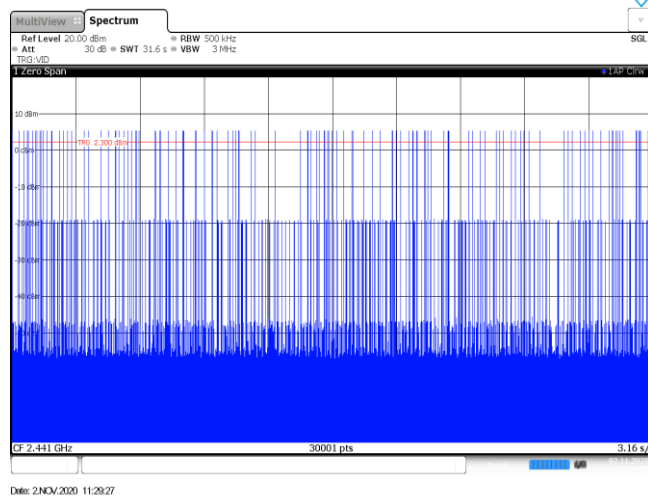
DH3
Burst number



DH5
Burst width

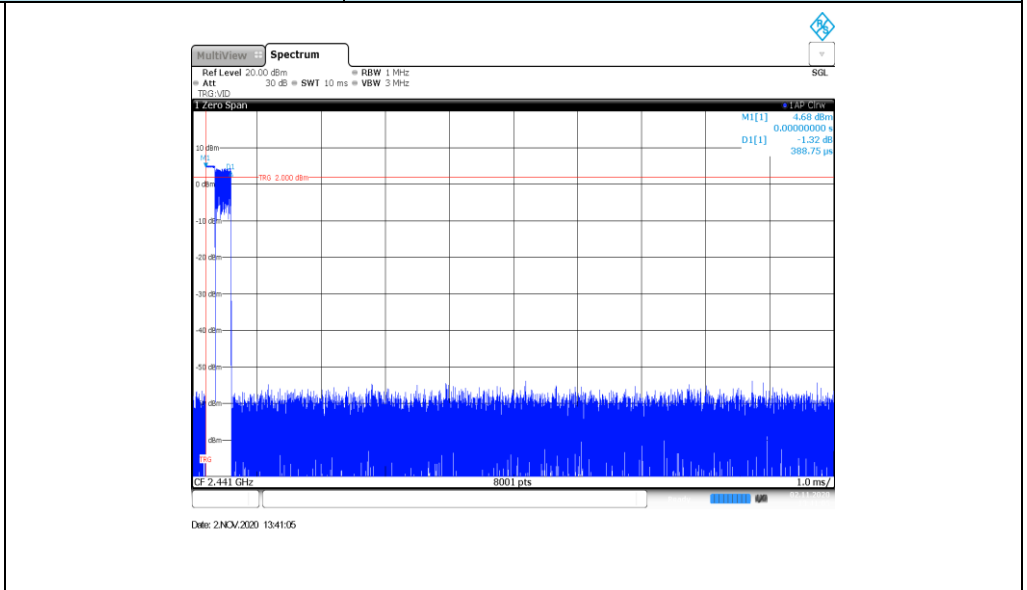


DH5
Burst number

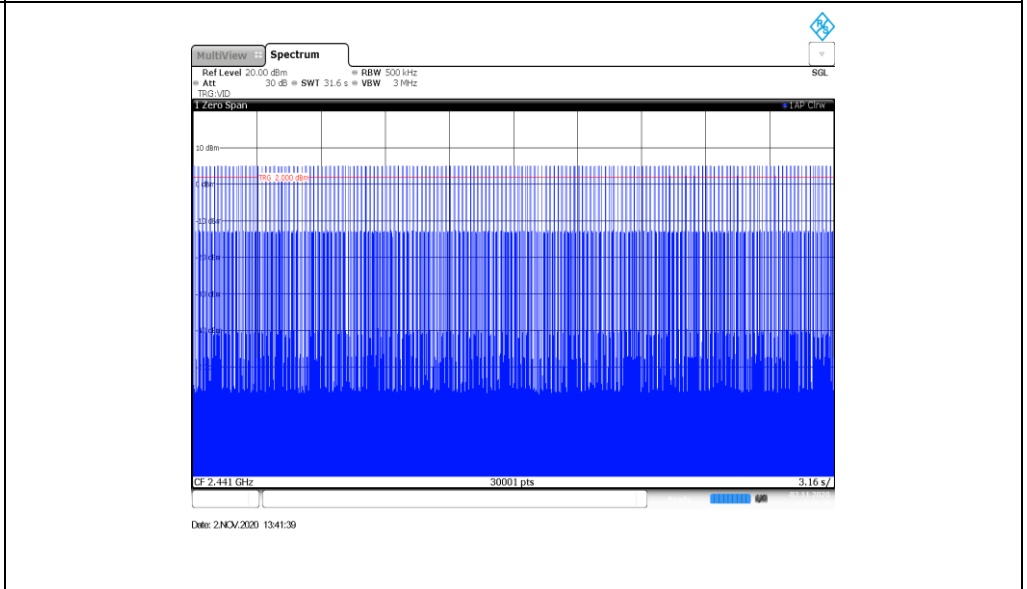


Modulation Type: $\pi/4$ DQPSK

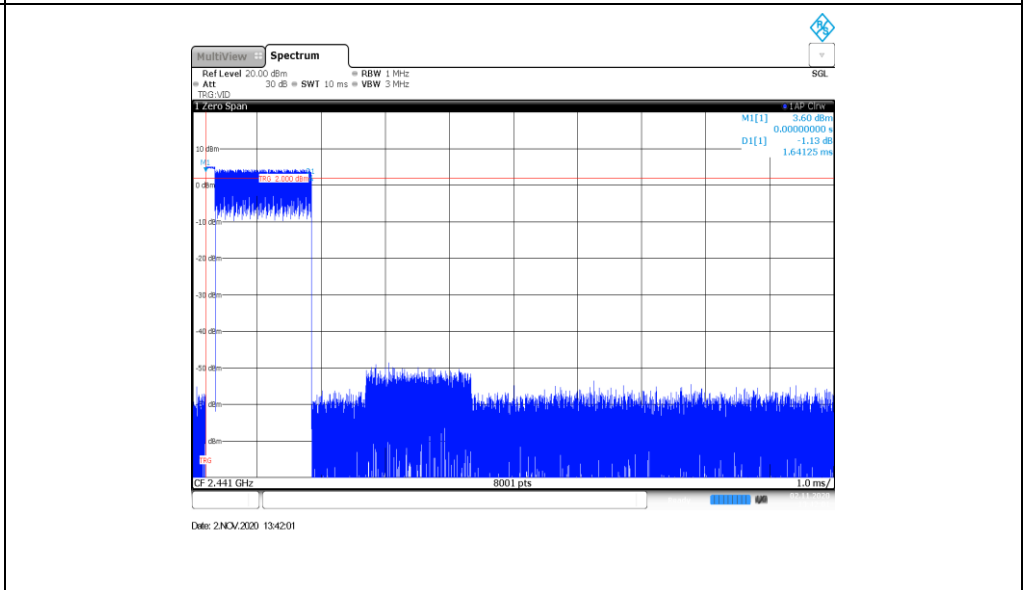
2DH1
Burst width



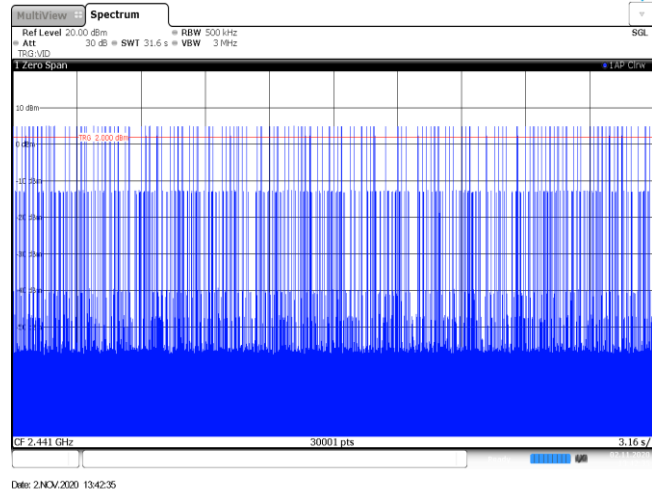
2DH1
Burst number



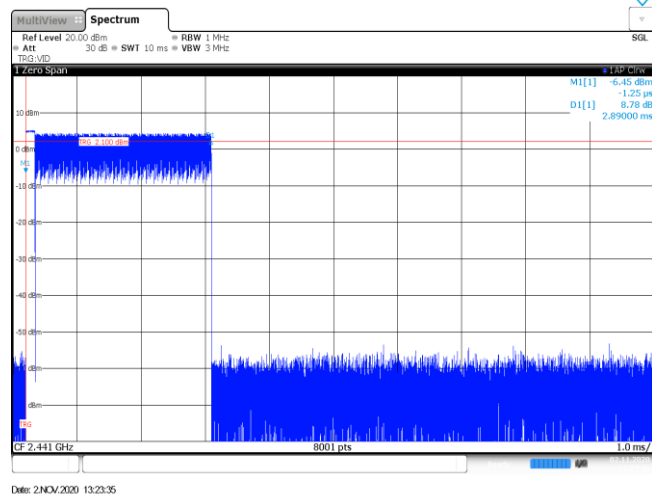
2DH3
Burst width



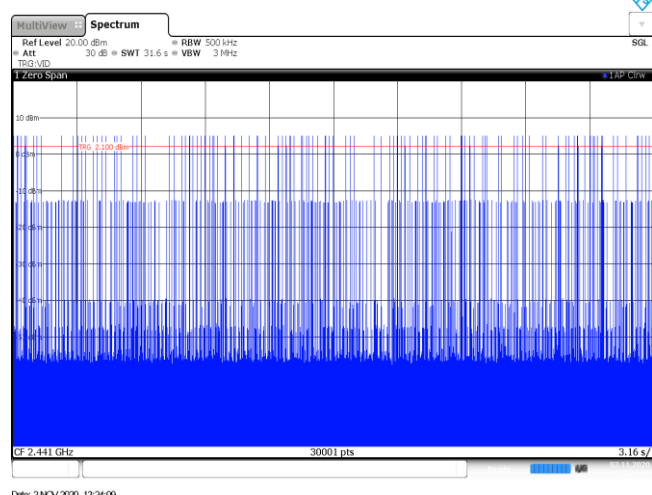
2DH3
Burst number



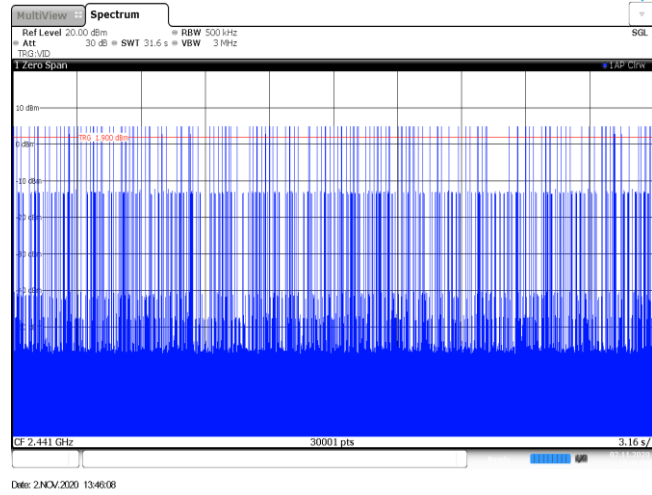
2DH5
Burst width



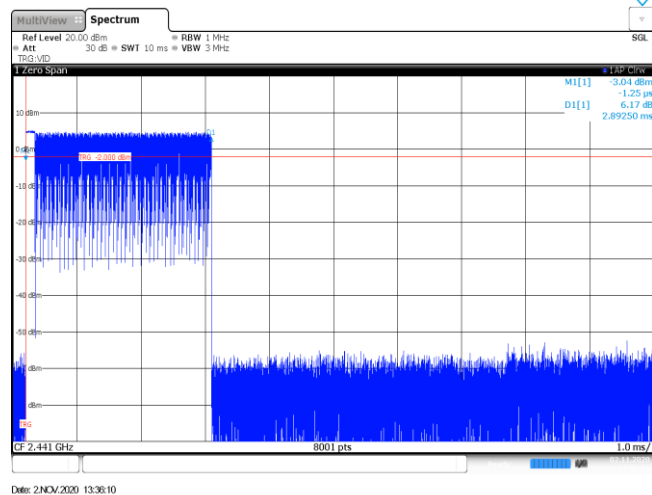
2DH5
Burst number



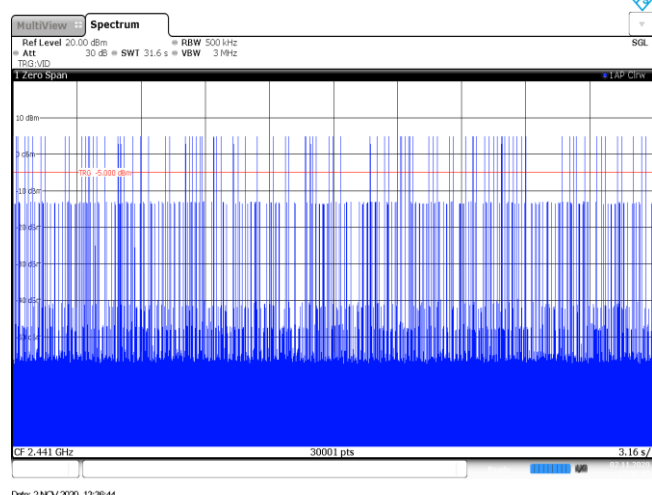
3DH3
Burst number



3DH5
Burst width



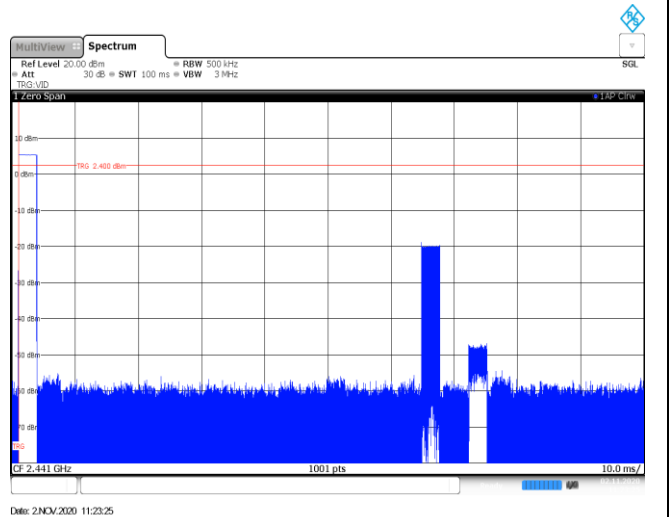
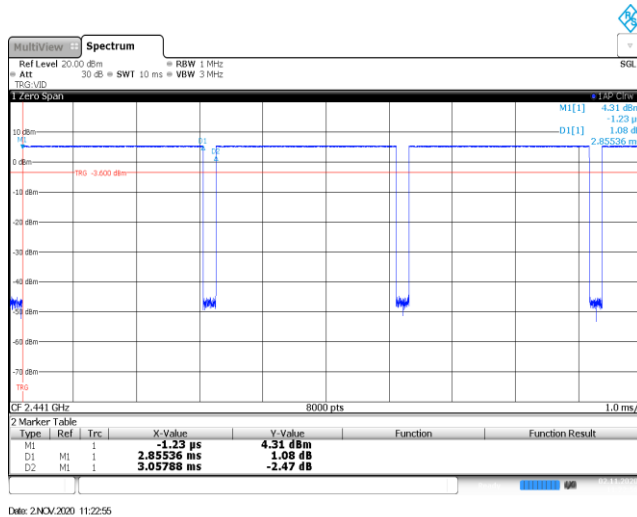
3DH5
Burst number



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	2.00	-24.85
$\pi/4$ DQPSK	2441	2.87	100	1.00	-30.84
8DPSK	2441	2.87	100	1.00	-30.84

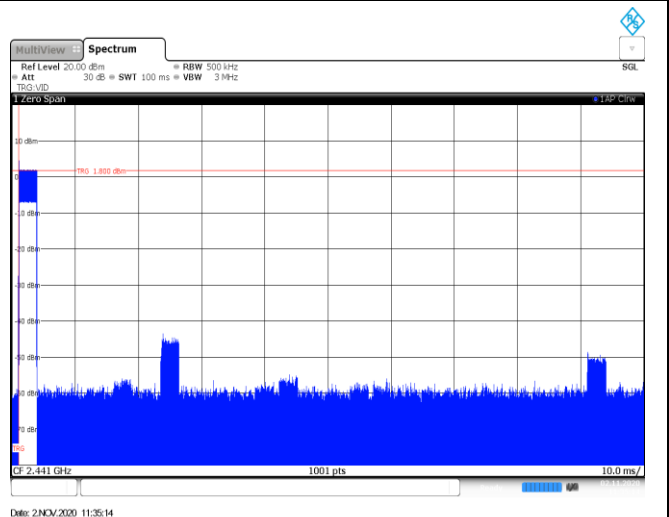
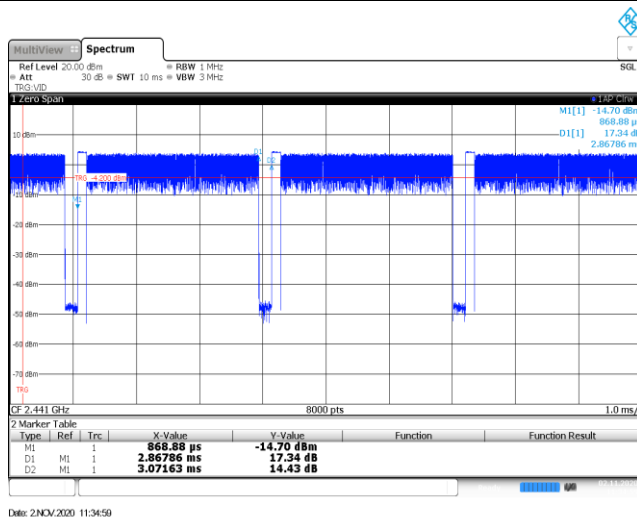
GFSK



T_{on} time for single burst

Burst Quantity

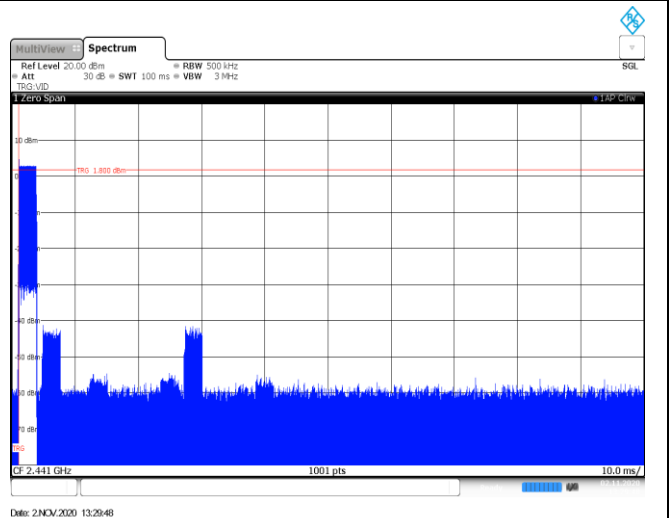
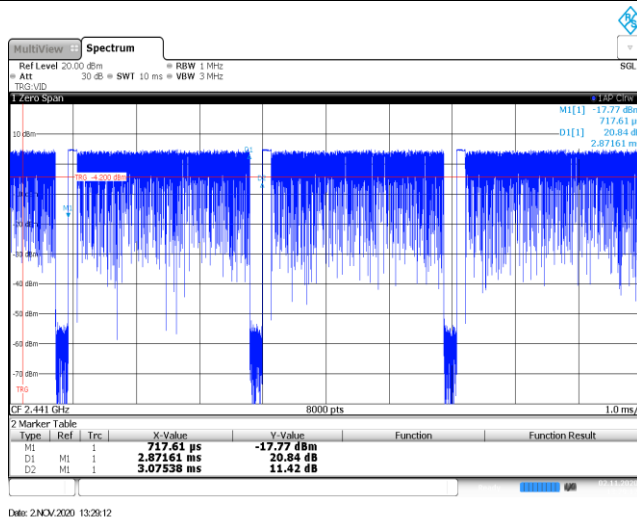
$\pi/4$ DQPSK



T_{on} time for single burst

Burst Quantity

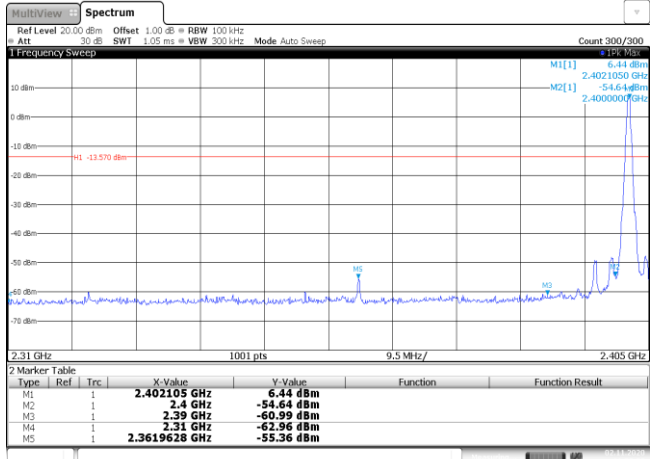
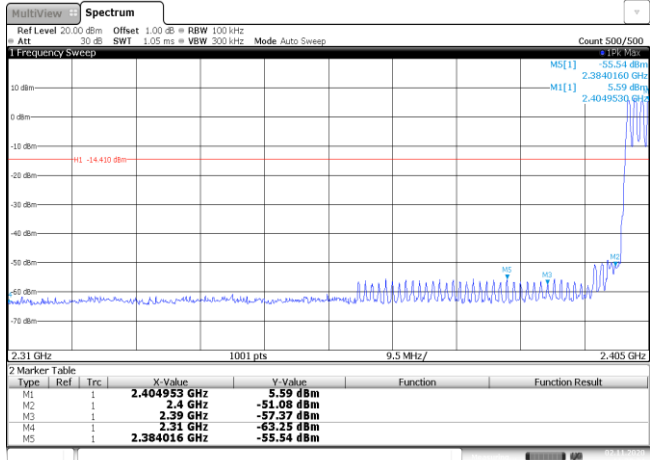
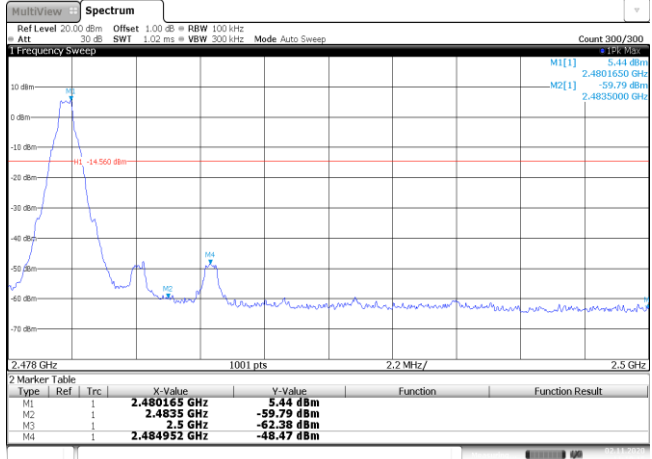
8DPSK



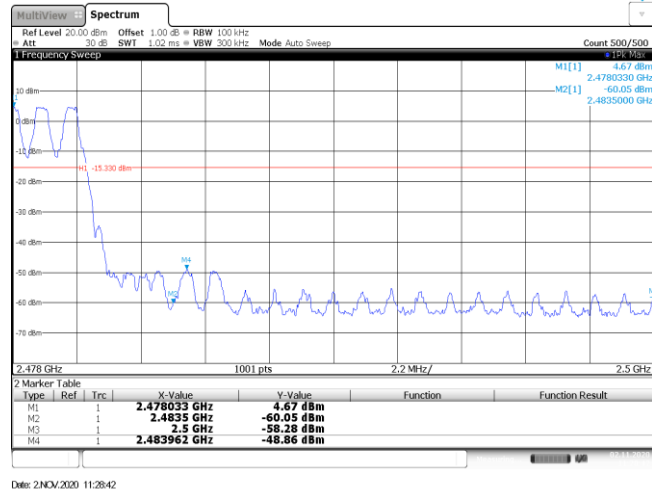
T_{on} time for single burst

Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

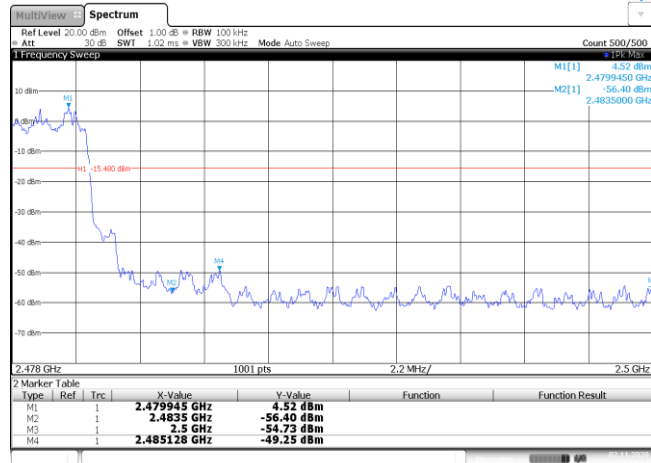
Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402105 GHz</td> <td>6.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-54.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-60.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.3619628 GHz</td> <td>-55.36 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2 NOV 2020 11:22:25</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	6.44 dBm			M2	1		2.4 GHz	-54.64 dBm			M3	1		2.39 GHz	-60.99 dBm			M4	1		2.31 GHz	-62.96 dBm			M5	1		2.3619628 GHz	-55.36 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	6.44 dBm																																									
M2	1		2.4 GHz	-54.64 dBm																																									
M3	1		2.39 GHz	-60.99 dBm																																									
M4	1		2.31 GHz	-62.96 dBm																																									
M5	1		2.3619628 GHz	-55.36 dBm																																									
<p>CH00 Hopping mode</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.404953 GHz</td> <td>5.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-51.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-57.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.384016 GHz</td> <td>-55.54 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2 NOV 2020 11:28:25</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404953 GHz	5.59 dBm			M2	1		2.4 GHz	-51.08 dBm			M3	1		2.39 GHz	-57.37 dBm			M4	1		2.31 GHz	-63.25 dBm			M5	1		2.384016 GHz	-55.54 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404953 GHz	5.59 dBm																																									
M2	1		2.4 GHz	-51.08 dBm																																									
M3	1		2.39 GHz	-57.37 dBm																																									
M4	1		2.31 GHz	-63.25 dBm																																									
M5	1		2.384016 GHz	-55.54 dBm																																									
<p>CH78 No hopping mode</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.480165 GHz</td> <td>5.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-59.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484952 GHz</td> <td>-48.47 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2 NOV 2020 11:19:15</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480165 GHz	5.44 dBm			M2	1		2.4835 GHz	-59.79 dBm			M3	1		2.5 GHz	-62.38 dBm			M4	1		2.484952 GHz	-48.47 dBm									
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CH78
Hopping mode

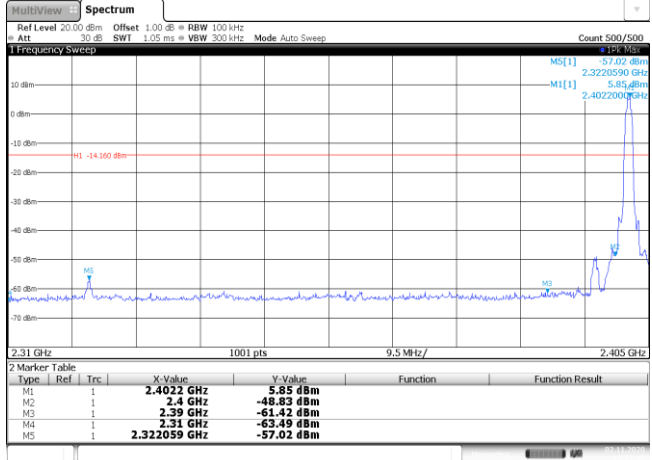
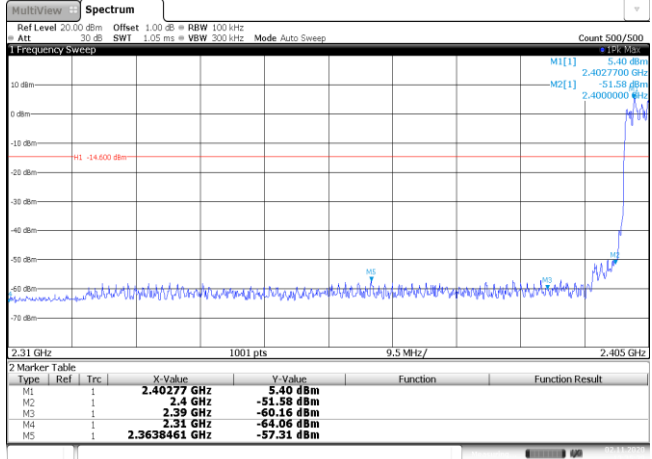
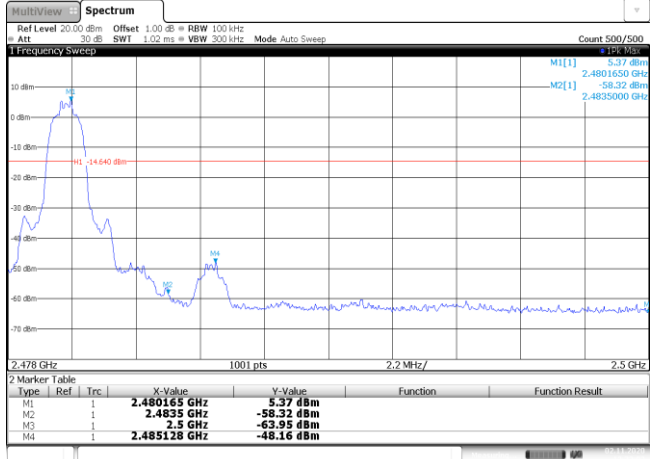


Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<p>CH00 No hopping mode</p>	<p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4022 GHz</td> <td>5.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-49.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-61.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.3220846 GHz</td> <td>-57.56 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2 NOV 2020 14:05:30</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	5.75 dBm			M2	1		2.4 GHz	-49.78 dBm			M3	1		2.39 GHz	-61.60 dBm			M4	1		2.31 GHz	-63.65 dBm			M5	1		2.3220846 GHz	-57.56 dBm		
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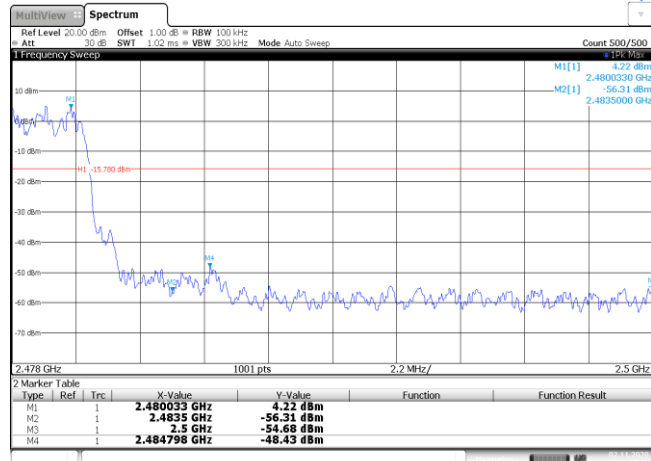
CH78
Hopping mode



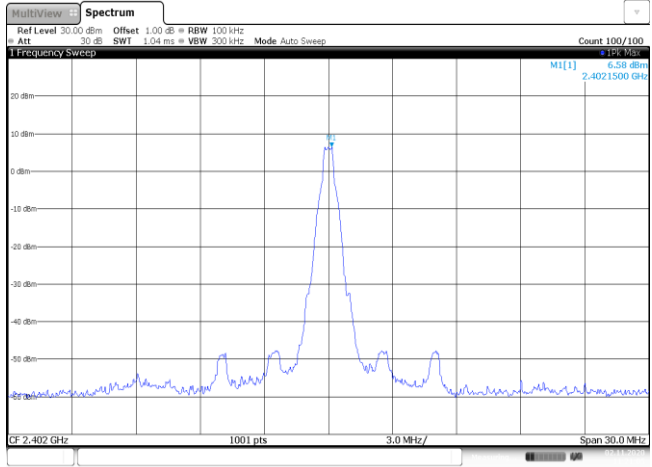
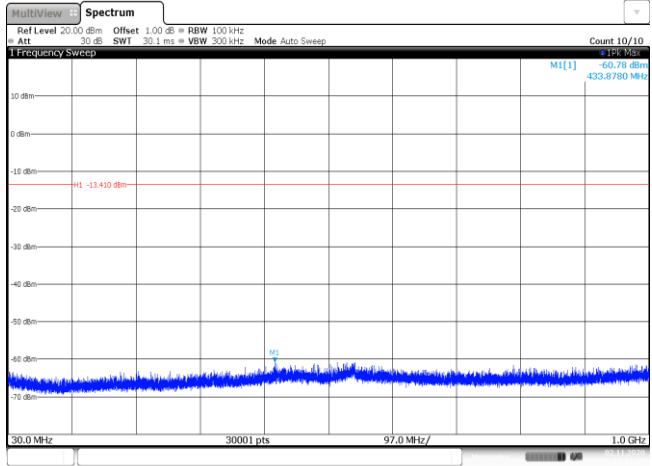
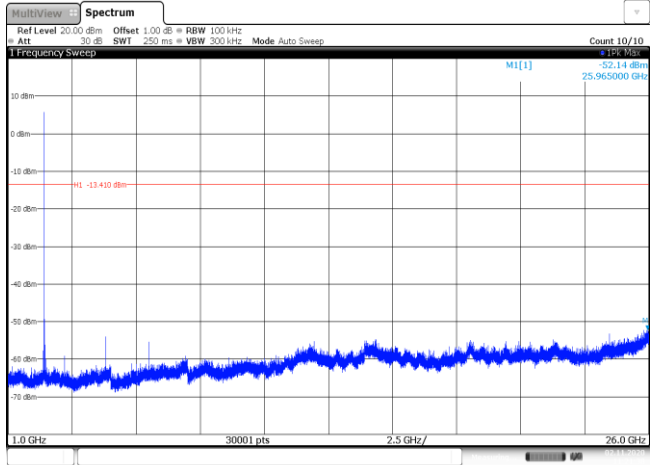
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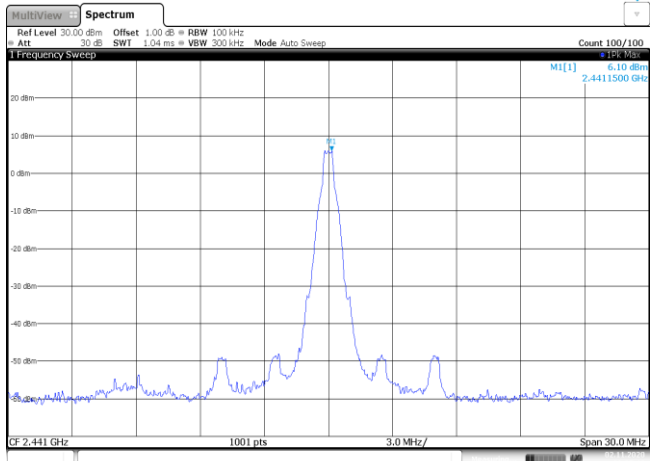
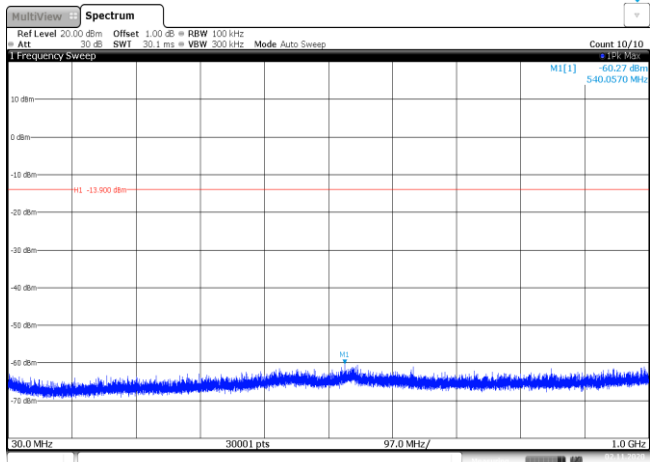
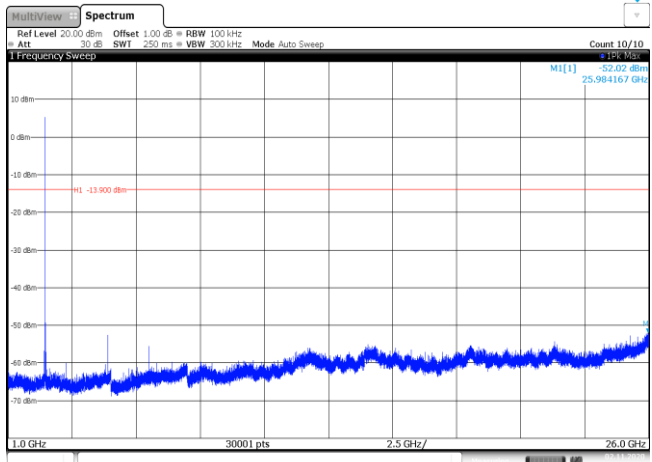
Test Item:	Band edge	Modulation type:	8DPSK																																										
<p>CH00 No hopping mode</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4022 GHz</td> <td>-5.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-61.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.322059 GHz</td> <td>-57.02 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 2 NOV 2020 13:27:10</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	-5.85 dBm			M2	1		2.4 GHz	-48.83 dBm			M3	1		2.39 GHz	-61.42 dBm			M4	1		2.31 GHz	-63.49 dBm			M5	1		2.322059 GHz	-57.02 dBm		
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CH78
Hoppig mode

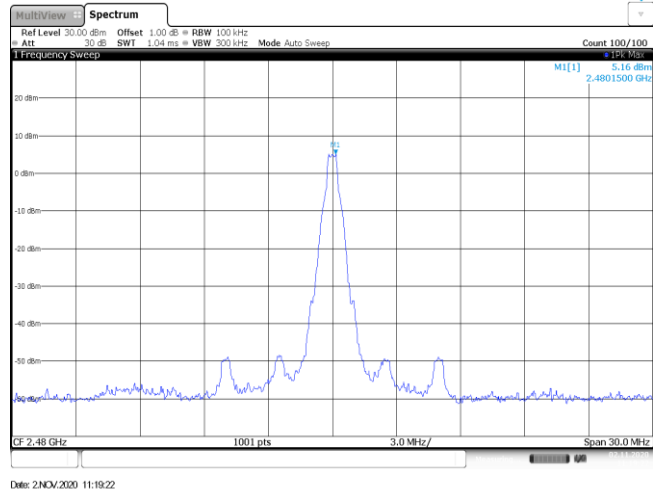


Date: 2 NOV 2020 13:36:02

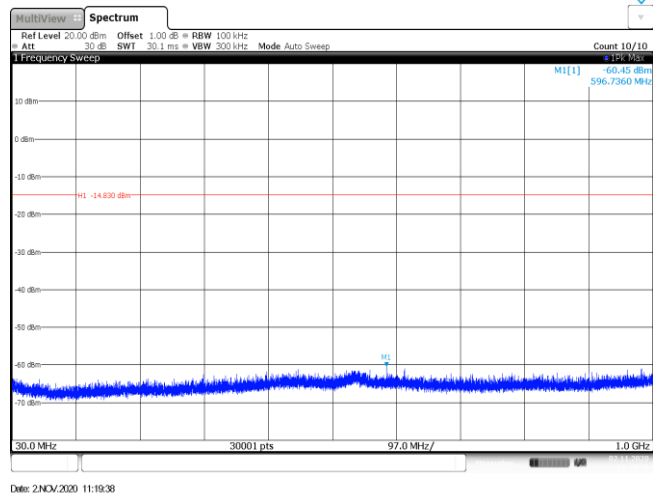
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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 2 NOV 2020 11:21:21</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 2 NOV 2020 11:21:38</p>		

<p>CH39 Reference level</p>	 <p>Date: 2 NOV 2020 11:17:46</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Date: 2 NOV 2020 11:18:02</p>
<p>CH39 1GHz~26GHz</p>	 <p>Date: 2 NOV 2020 11:18:18</p>

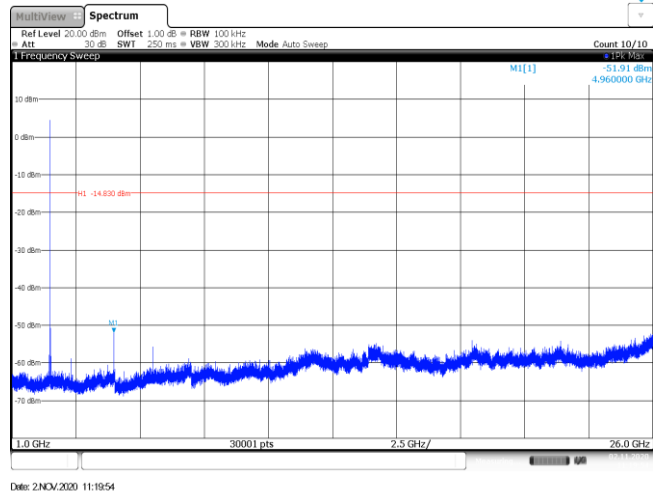
CH78
Reference level

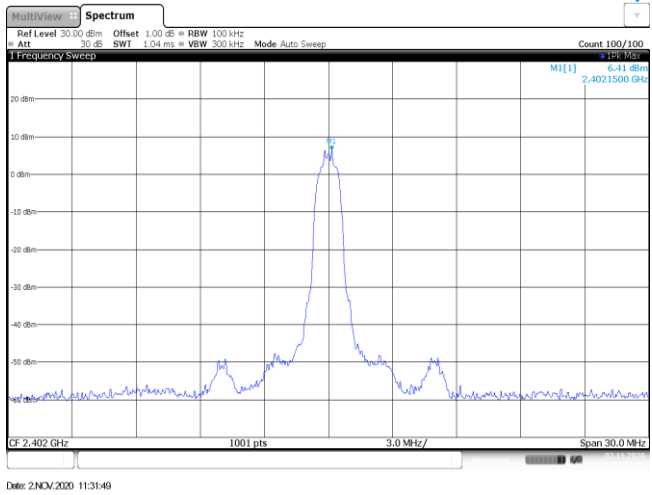
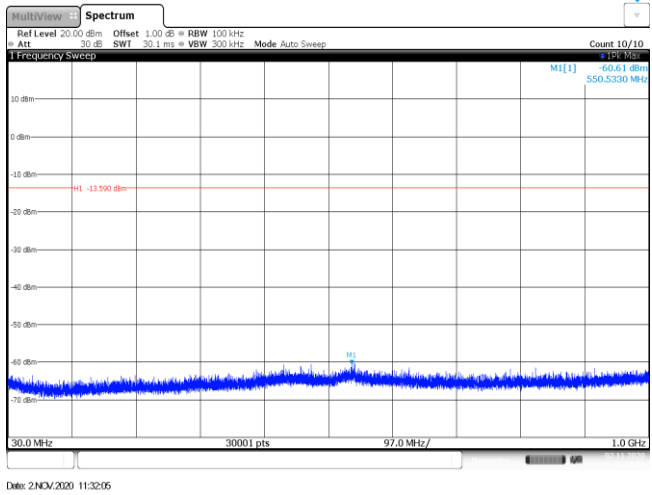
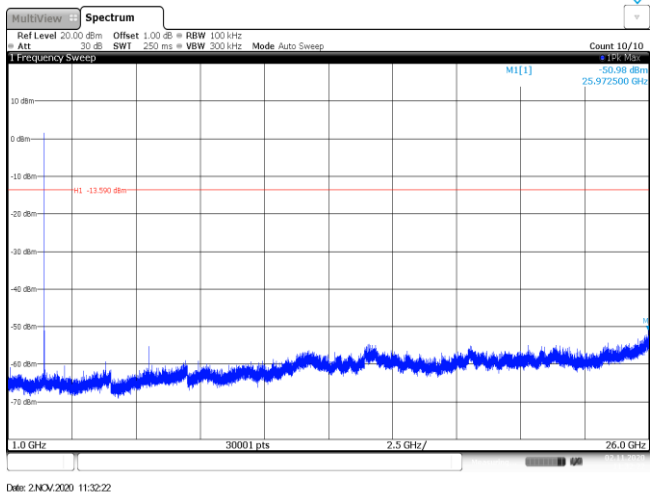


CH78
30MHz~1000MHz

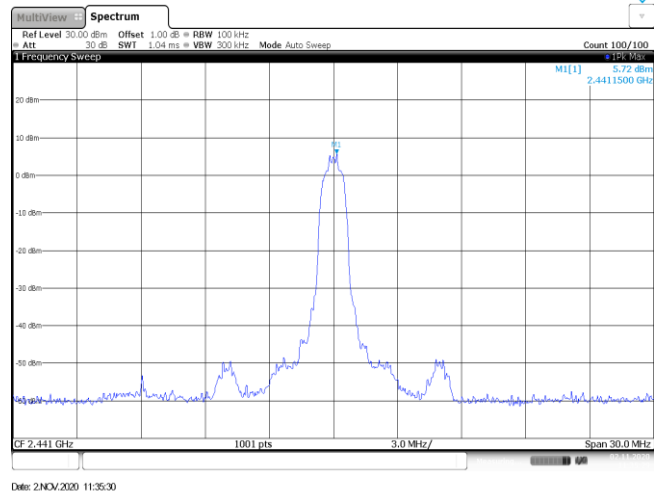


CH78
1GHz~26GHz

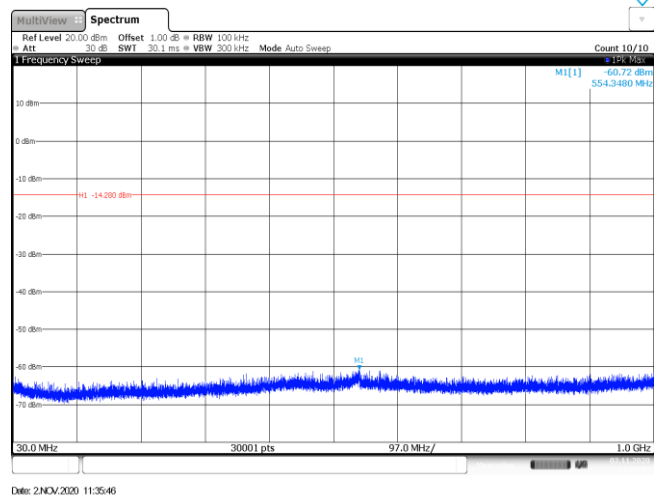


Test Item:	Spurious Emission	Modulation type:	π/4DQPSK
<p>CH00 Reference level</p>	 <p>Date: 2 NOV 2020 11:31:49</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 2 NOV 2020 11:32:05</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 2 NOV 2020 11:32:22</p>		

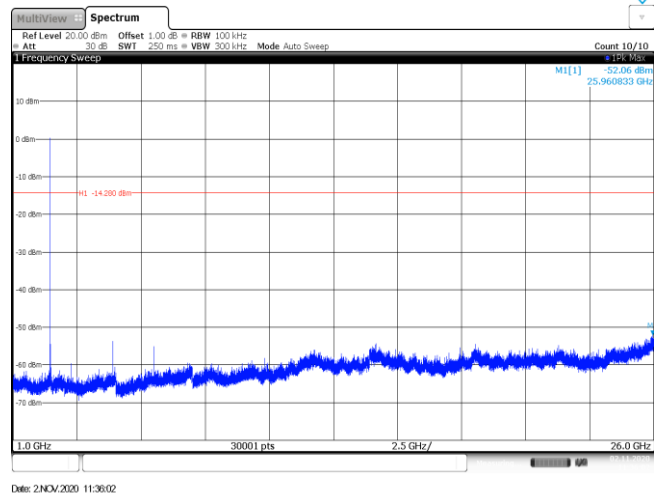
CH39
Reference level



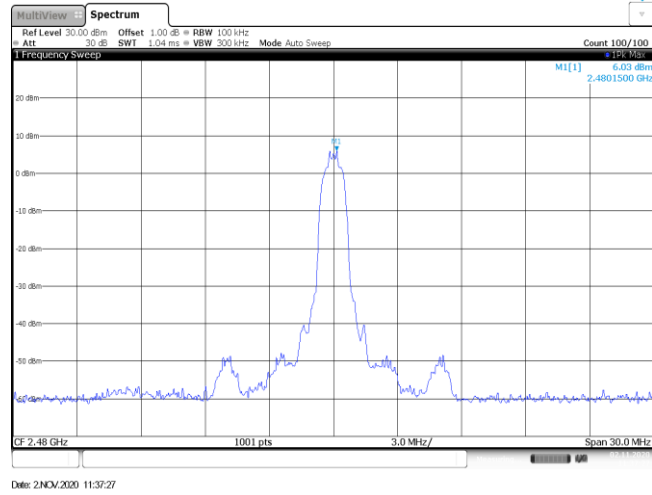
CH39
30MHz~1000MHz



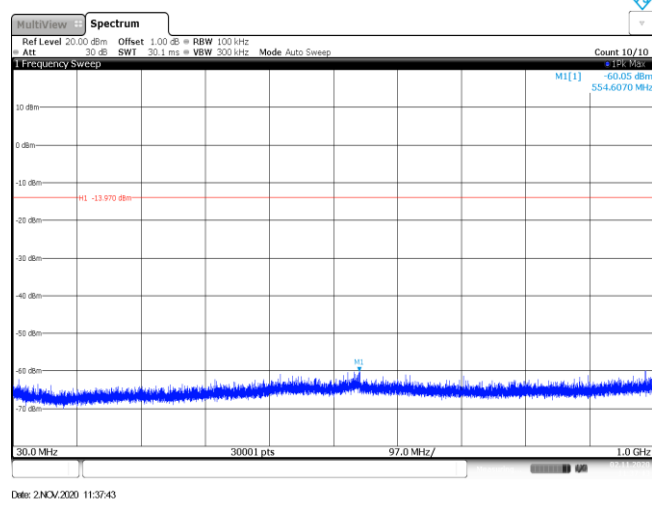
CH39
1GHz~26GHz



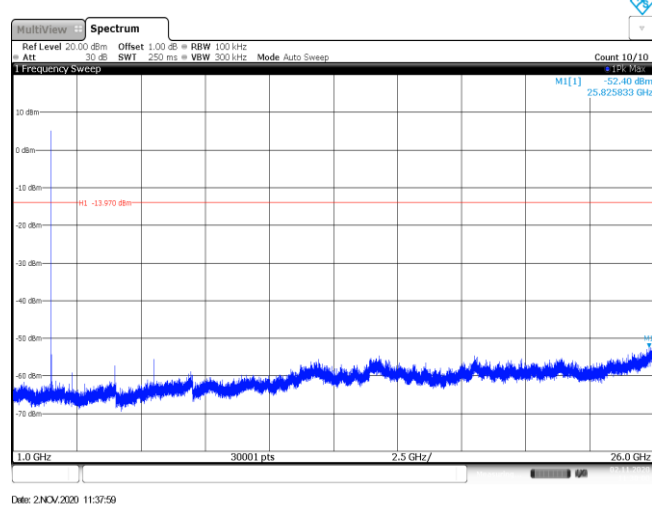
CH78
Reference level

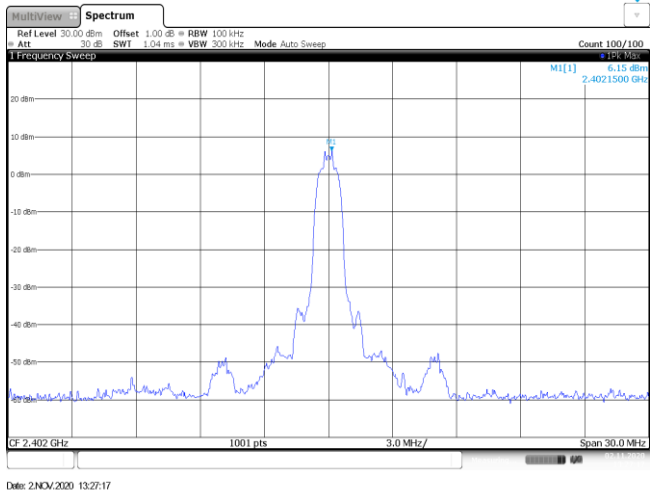
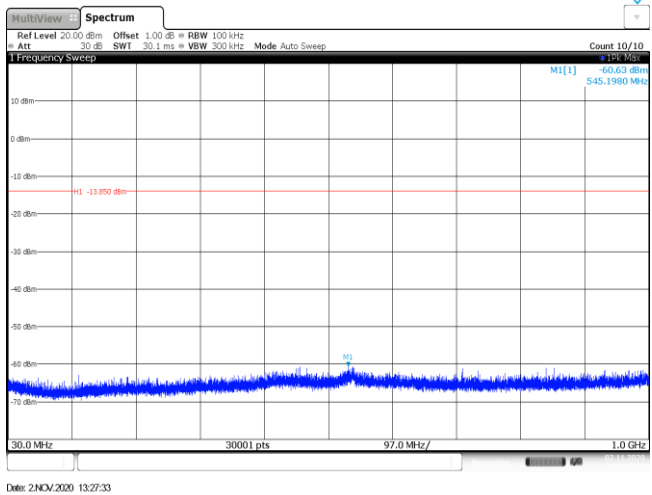
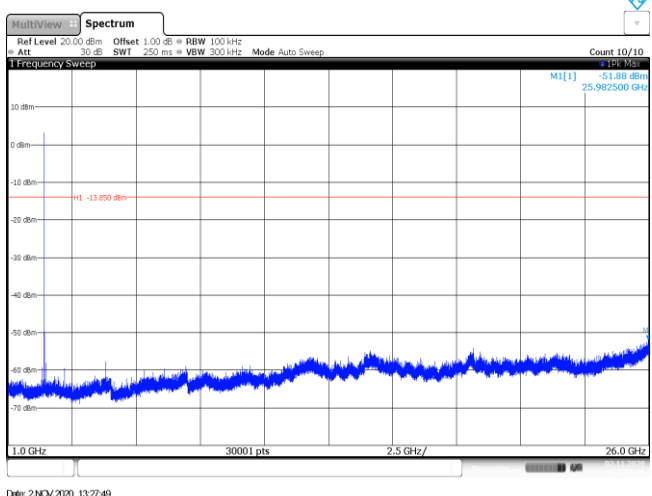


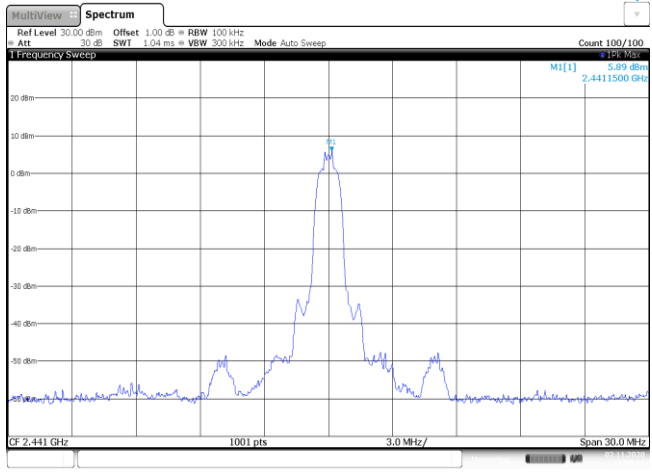
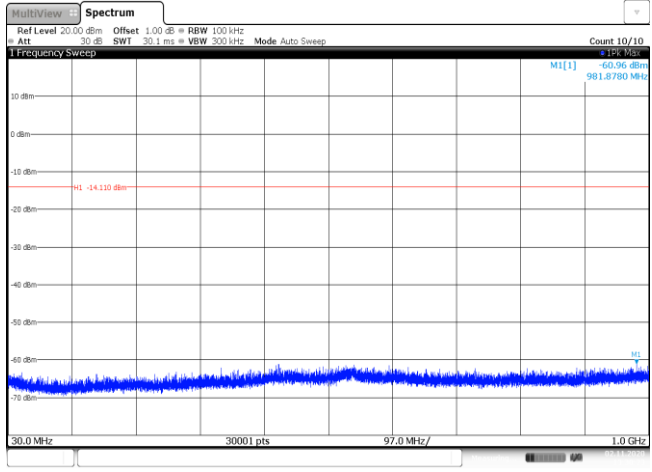
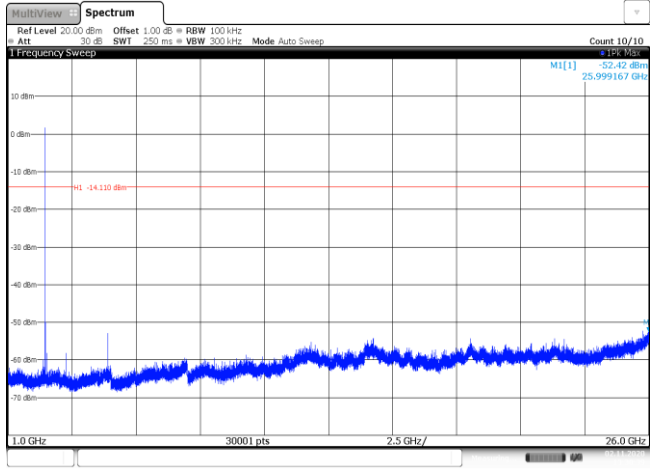
CH78
30MHz~1000MHz



CH78
1GHz~26GHz



Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>			
<p>CH00 30MHz~1000MHz</p>			
<p>CH00 1GHz~26GHz</p>			

<p>CH39 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 5.89 dBm 2.4411500 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2 NOV 2020 13:30:06</p>
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<p>CH39 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -62.42 dBm 25.999167 GHz MI -14.110 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 2 NOV 2020 13:30:38</p>

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

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