

APPENDIX REPORT

Project No.	SHT2203115001EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22031150003	Model No.	RS20
Start test date	2022-04-08	Finish date	2022-04-08
Temperature	24.6°C	Humidity	34%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

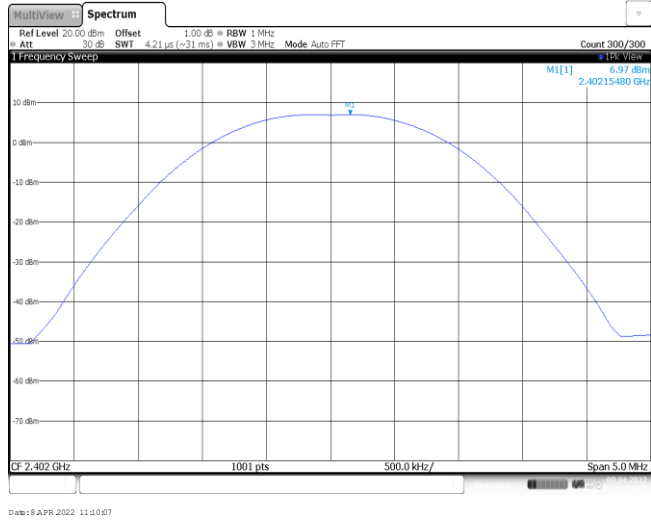
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	6.97	6.95	≤ 30.00	Pass
	39	8.42	8.41		
	78	7.76	7.72		
π/4DQPSK	00	7.85	7.44	≤ 21.00	Pass
	39	9.51	8.99		
	78	8.72	8.28		
8DPSK	00	7.92	7.47	≤ 21.00	Pass
	39	9.60	9.05		
	78	8.83	8.30		

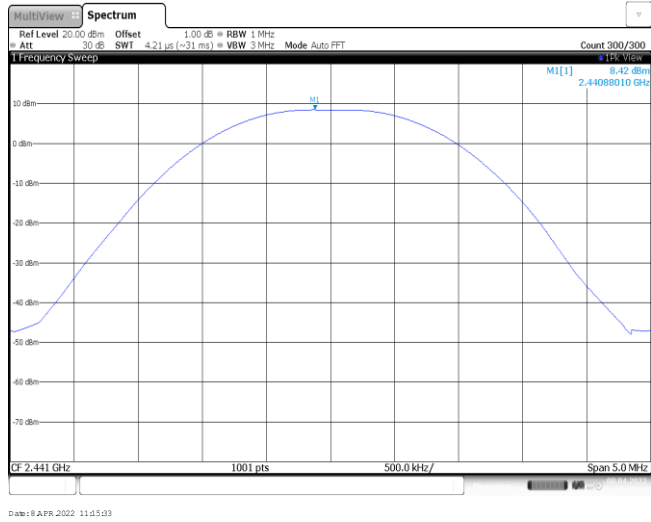
Modulation Type: GFSK

CH00



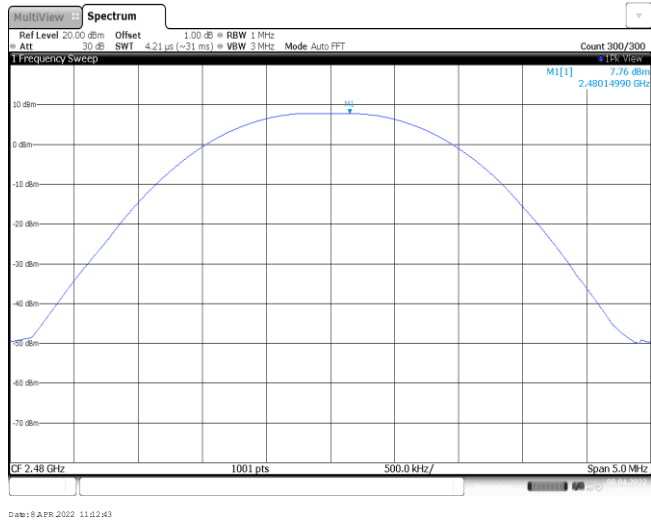
Date: 8 APR 2022 11:10:07

CH39



Date: 8 APR 2022 11:15:33

CH78

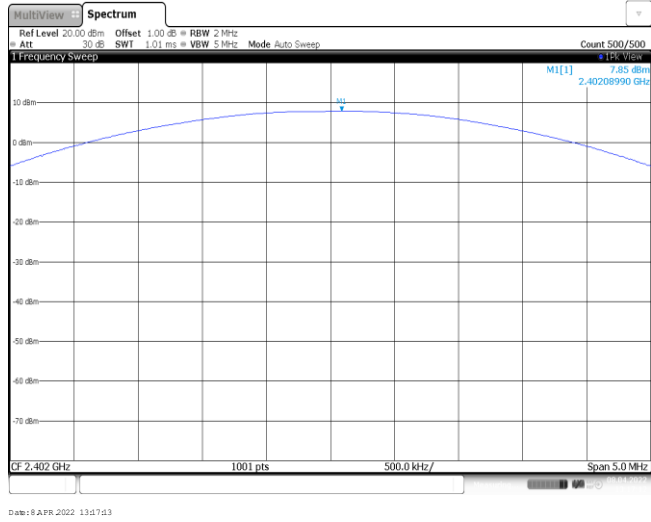


Date: 8 APR 2022 11:12:43

Modulation Type:

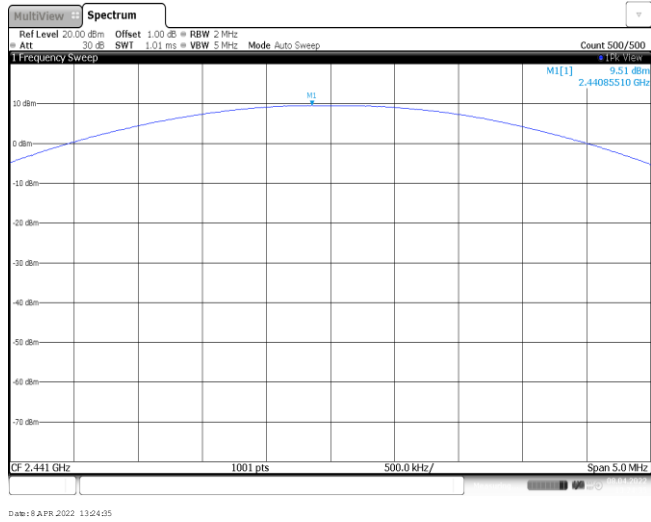
$\pi/4$ DQPSK

CH00



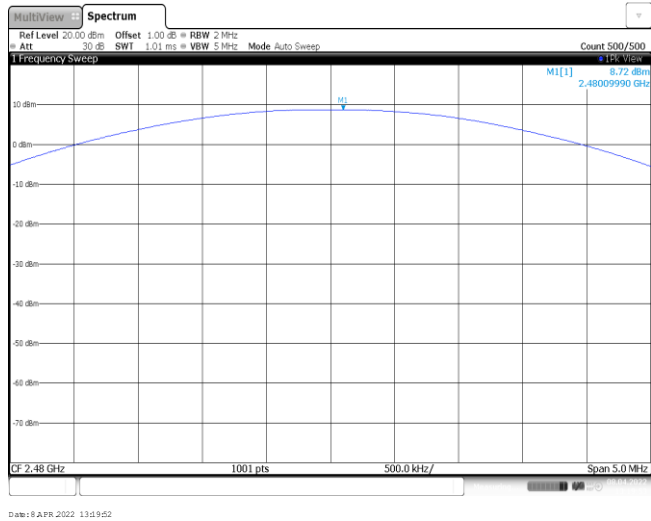
Date: 8 APR 2022 13:47:13

CH39



Date: 8 APR 2022 13:24:35

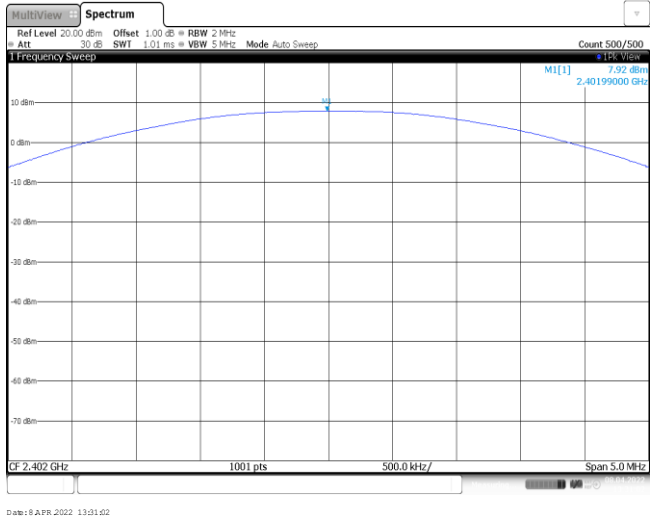
CH78



Date: 8 APR 2022 13:19:52

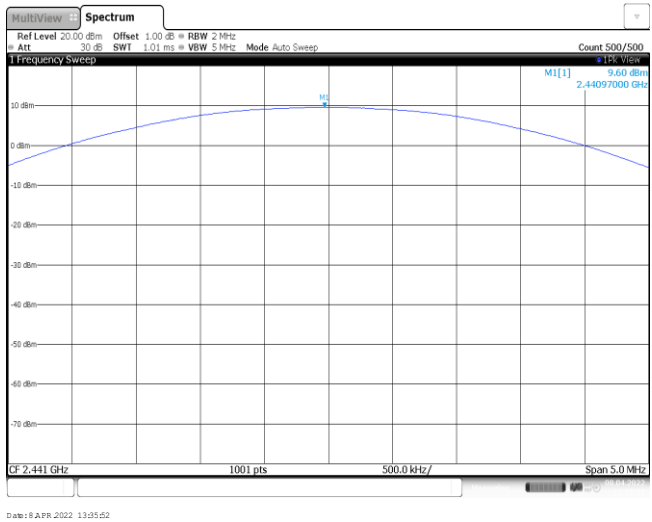
Modulation Type: 8DPSK

CH00



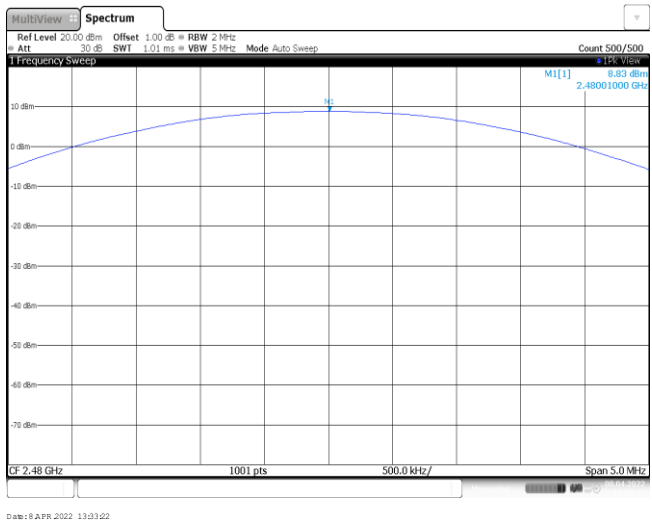
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CH39



Date: 8 APR 2022 13:25:42

CH78



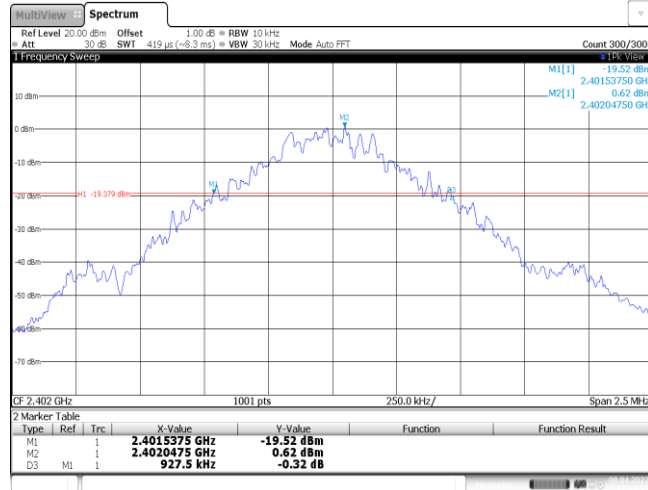
Date: 8 APR 2022 13:33:22

Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	927.50	-	Pass
	39	927.50		
	78	927.50		
$\pi/4$ DQPSK	00	1322.50	-	Pass
	39	1322.50		
	78	1322.50		
8DPSK	00	1310.00	-	Pass
	39	1307.50		
	78	1307.50		

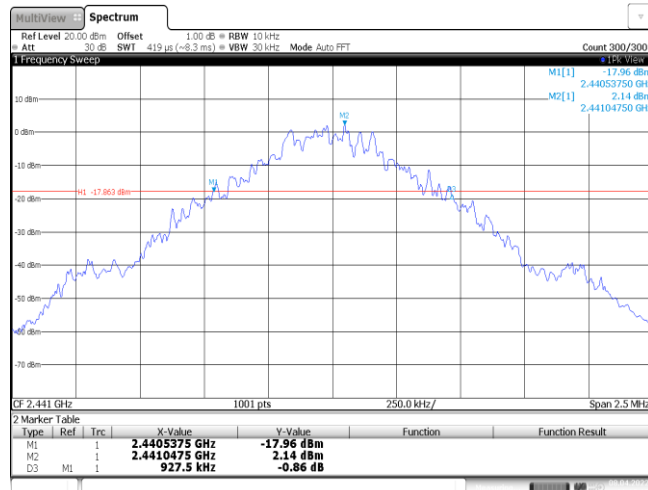
Modulation Type: GFSK

CH00



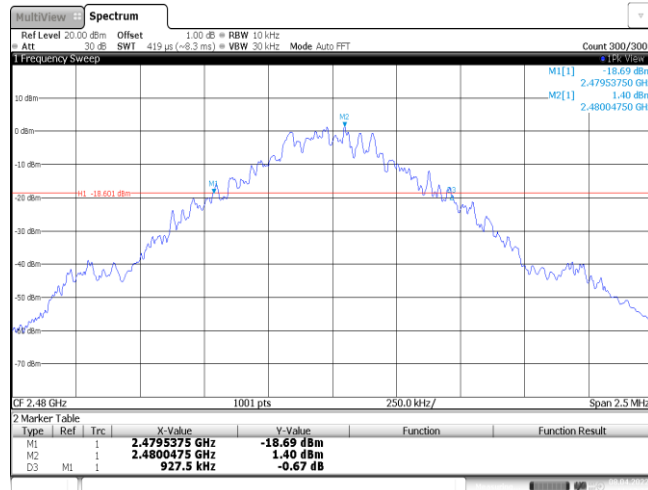
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CH39



Date: 8 APR 2022 11:15:14

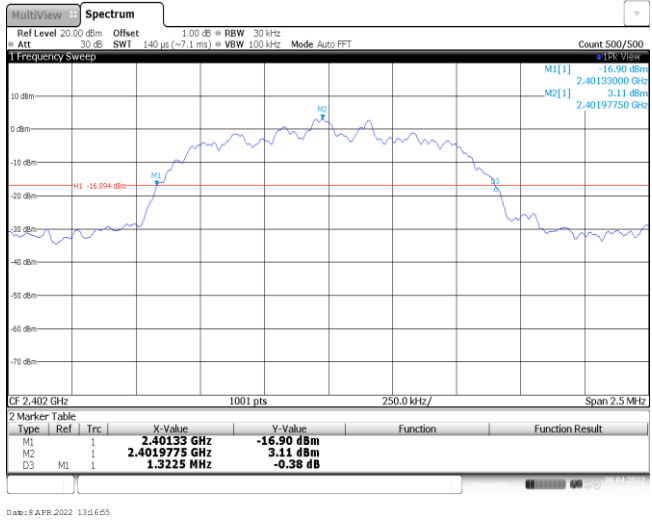
CH78



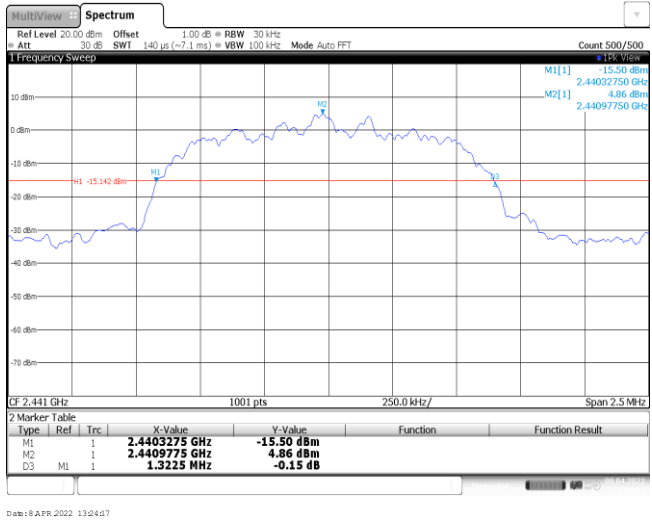
Date: 8 APR 2022 11:12:25

Modulation Type: $\pi/4$ DQPSK

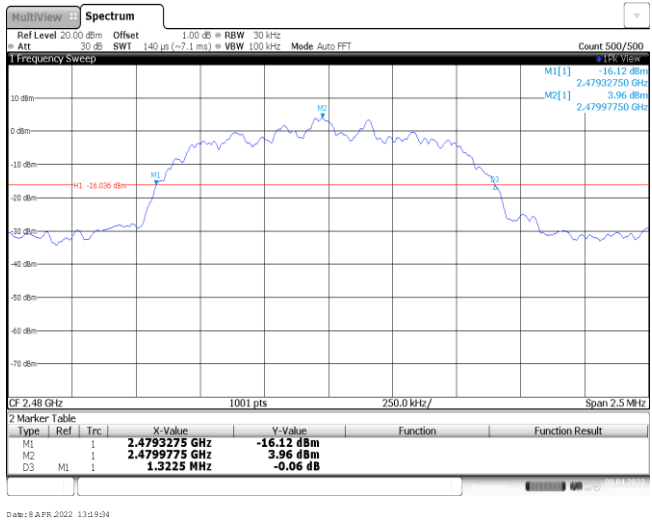
CH00



CH39

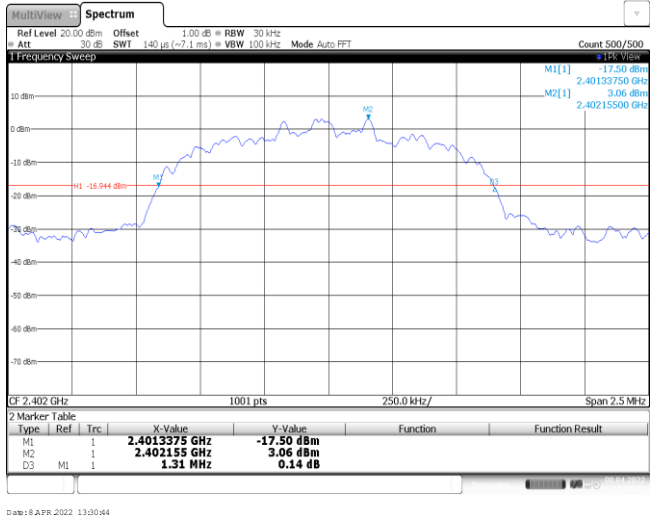


CH78

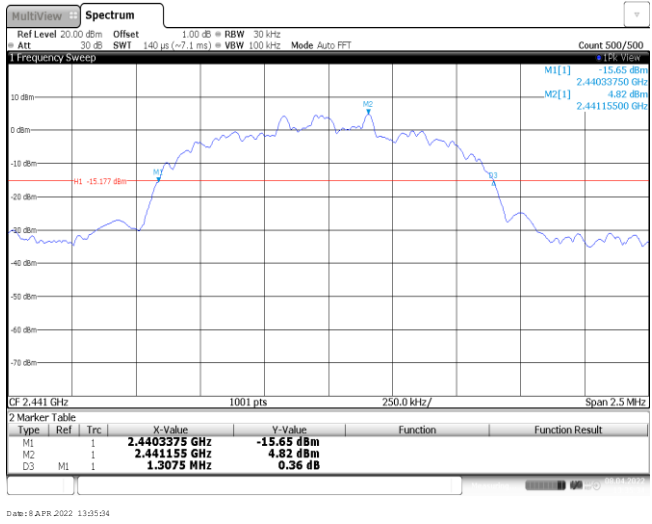


Modulation Type: 8DPSK

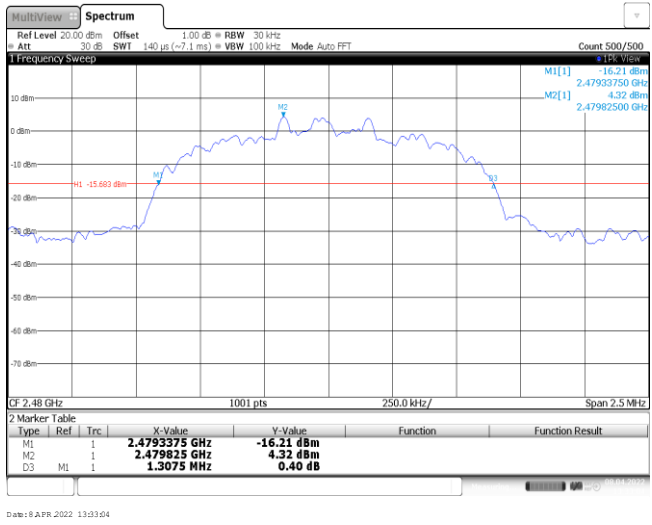
CH00



CH39



CH78

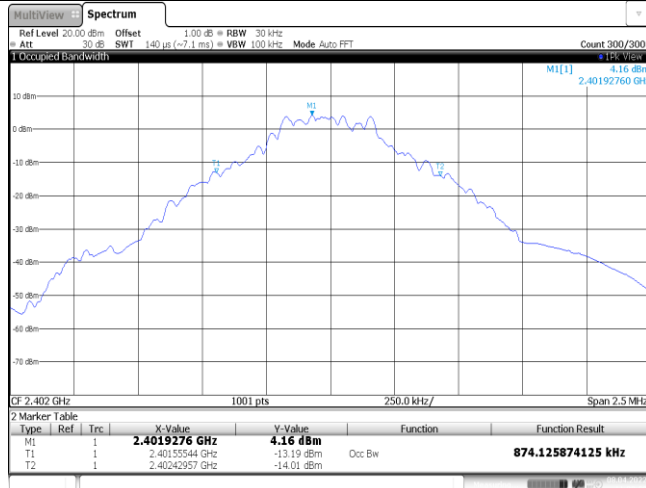


Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.87	-	Pass
	39	0.87		
	78	0.88		
$\pi/4$ DQPSK	00	1.20	-	Pass
	39	1.19		
	78	1.19		
8DPSK	00	1.19	-	Pass
	39	1.19		
	78	1.20		

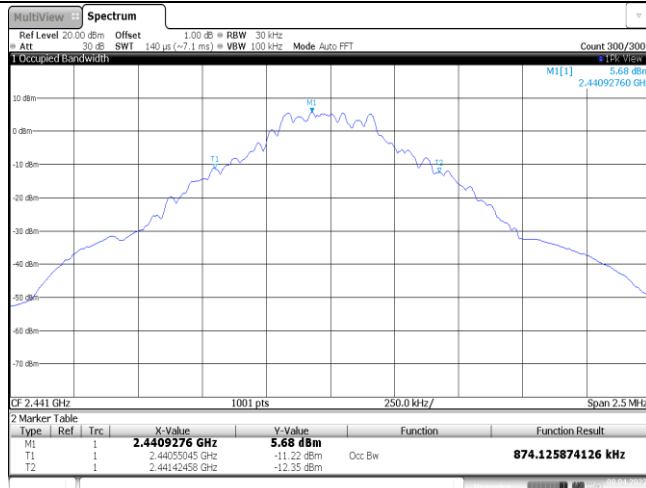
Modulation Type: GFSK

CH00



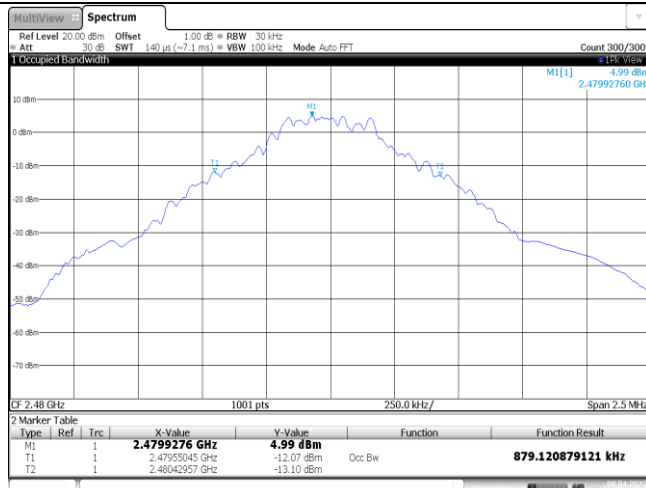
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CH39



Date: R APR 2022 11:15:23

CH78



Date: R APR 2022 11:12:33

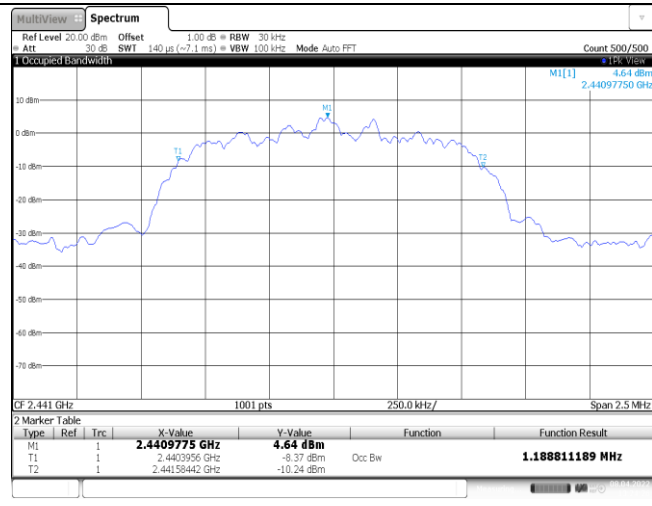
Modulation Type: $\pi/4$ QPSK

CH00



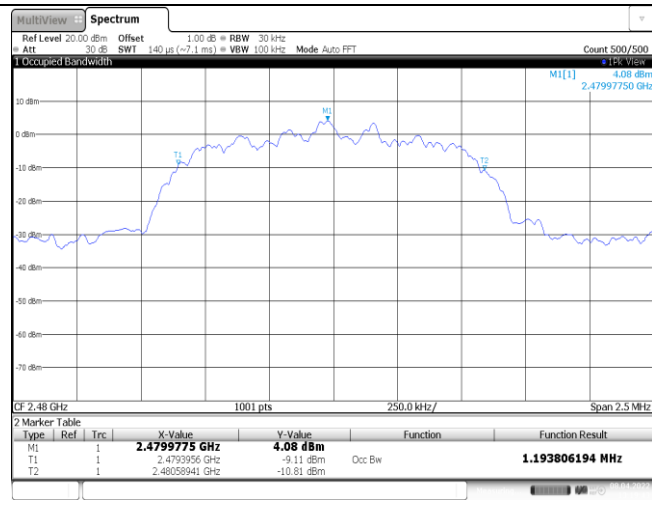
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CH39



Date: 8 APR 2022 13:24:26

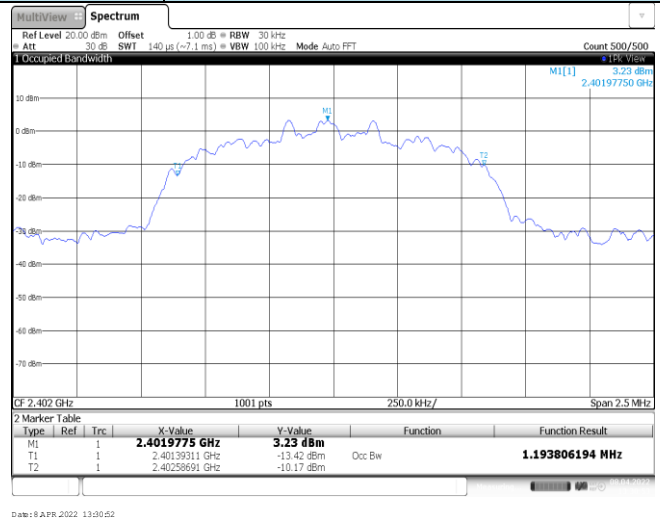
CH78



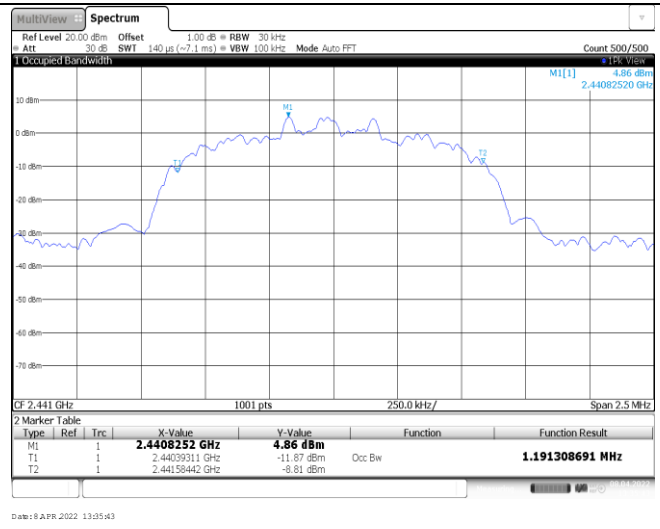
Date: 8 APR 2022 13:49:43

Modulation Type: 8DPSK

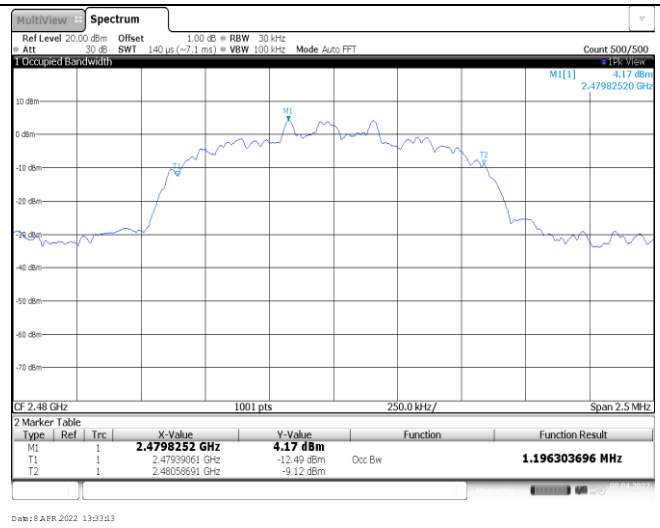
CH00



CH39



CH78



Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥927.50	Pass
π/4DQPSK	39	1.00	≥881.67	Pass
8DPSK	39	1.00	≥873.33	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.

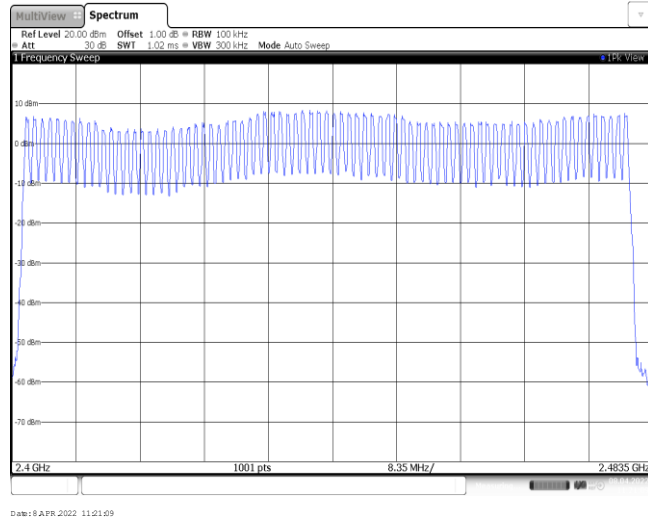
8DPSK limit = 2/3 * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

<p style="text-align: center;">GFSK</p>	<p style="text-align: right;">M1[1] 2.44093000 GHz -5.17 dBm D1[1] 2.44095000 GHz -2.05 dBm</p> <p style="text-align: center;">Date: 8.APR.2022 11:19:52</p>
<p style="text-align: center;">$\pi/4$DQPSK</p>	<p style="text-align: right;">M1[1] 2.44095000 GHz -2.29 dBm D1[1] 2.44095000 GHz -0.77 dBm</p> <p style="text-align: center;">Date: 8.APR.2022 11:28:59</p>
<p style="text-align: center;">8DPSK</p>	<p style="text-align: right;">M1[1] 2.44082121 GHz -3.10 dBm D1[1] 2.44082121 GHz -0.51 dBm</p> <p style="text-align: center;">Date: 8.APR.2022 11:26:18</p>

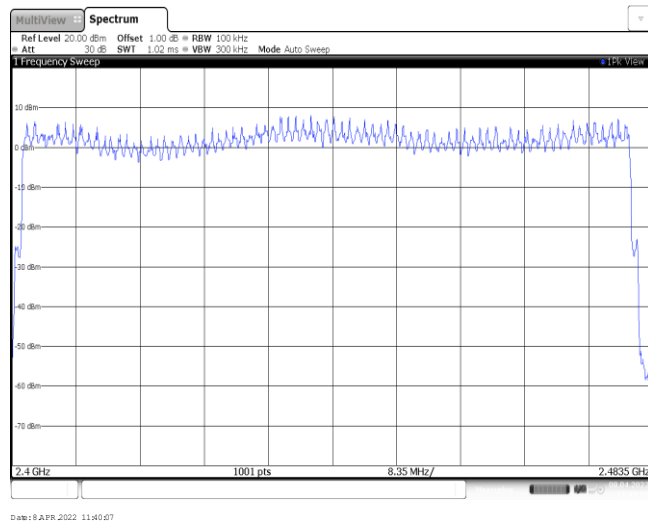
Appendix E: Hopping Channel Number

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

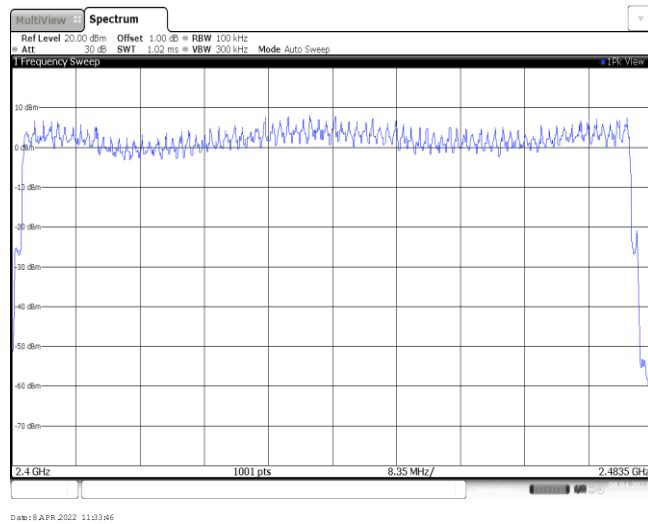
GFSK



$\pi/4$ DQPSK



8DPSK

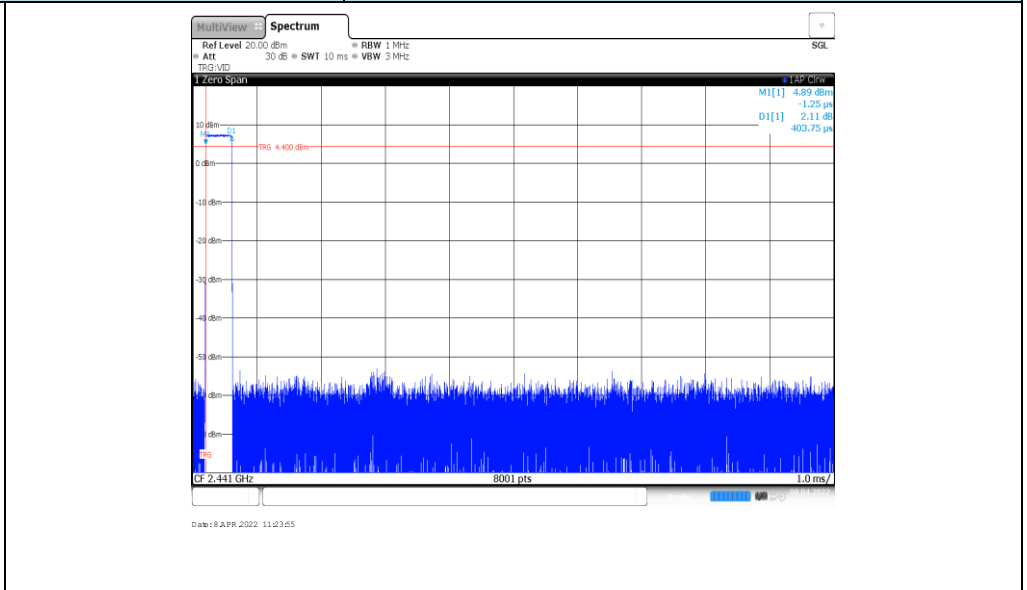


Appendix F: Dwell Time

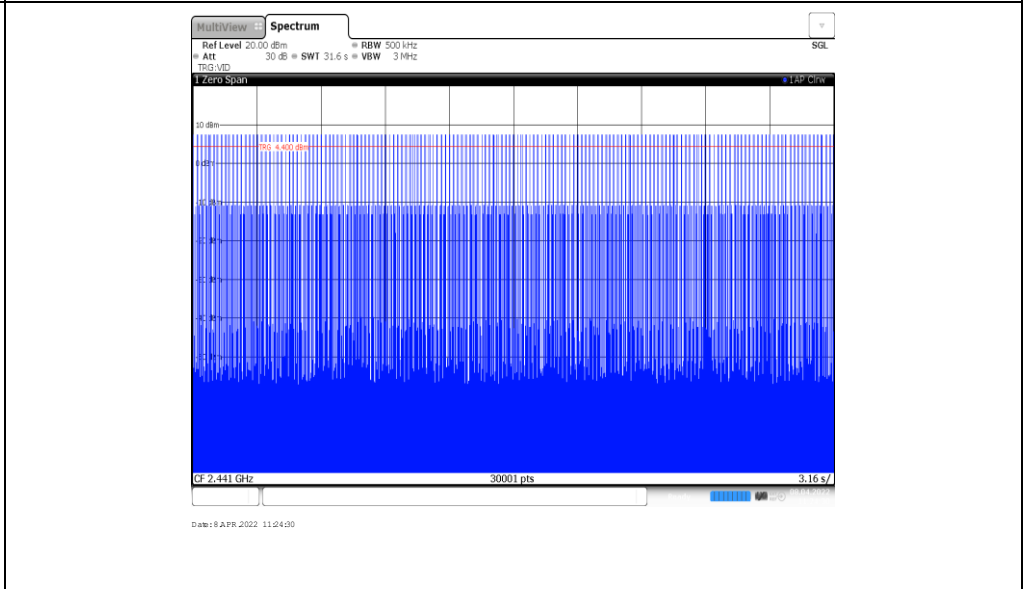
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.40	319	0.13	≤ 0.40	Pass
	DH3	1.66	166	0.28		
	DH5	2.91	114	0.33		
π/4DQPSK	2DH1	0.40	317	0.13	≤ 0.40	Pass
	2DH3	1.65	144	0.24		
	2DH5	2.90	101	0.29		
8DPSK	3DH1	0.39	320	0.13	≤ 0.40	Pass
	3DH3	1.64	164	0.27		
	3DH5	2.90	102	0.30		

Modulation Type: GFSK

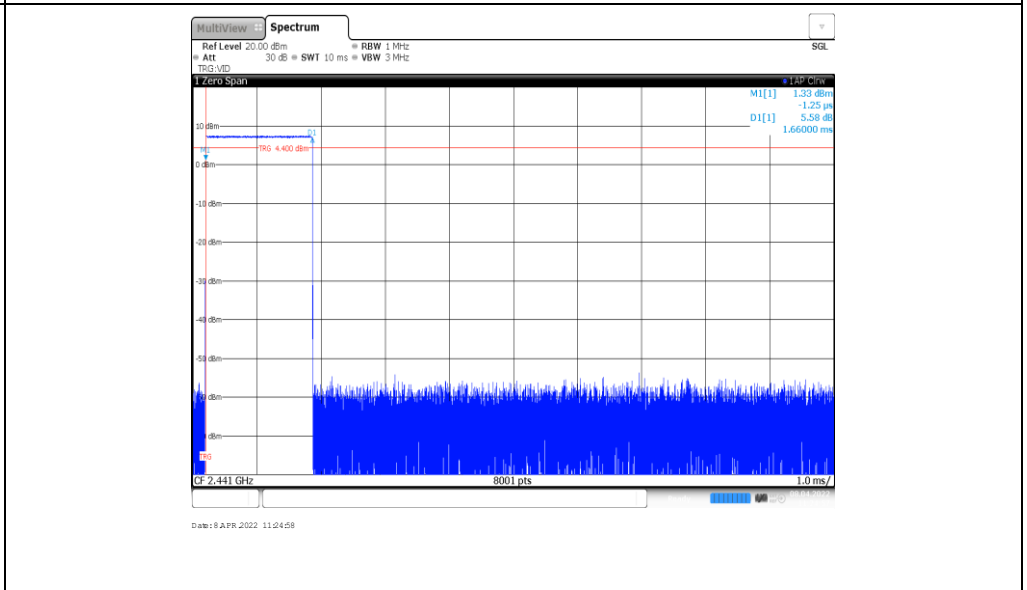
DH1
Burst width



DH1
Burst number

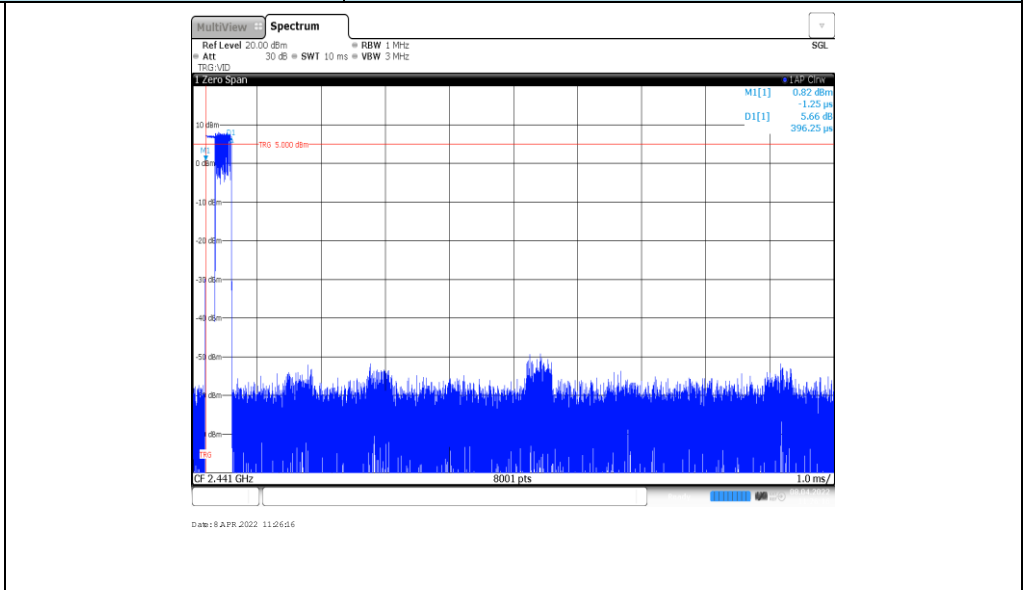


DH3
Burst width

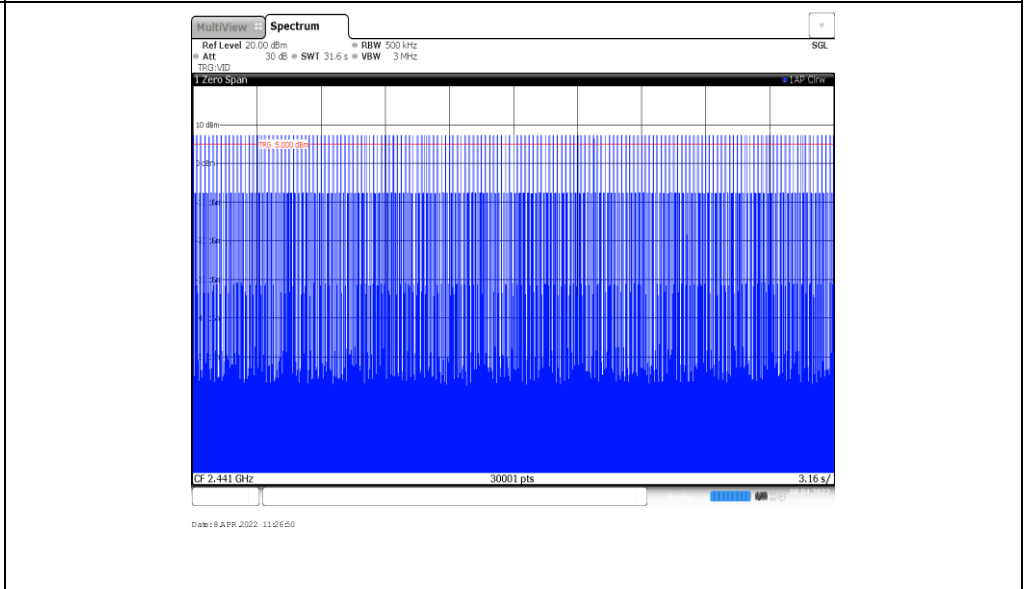


Modulation Type: $\pi/4$ DQPSK

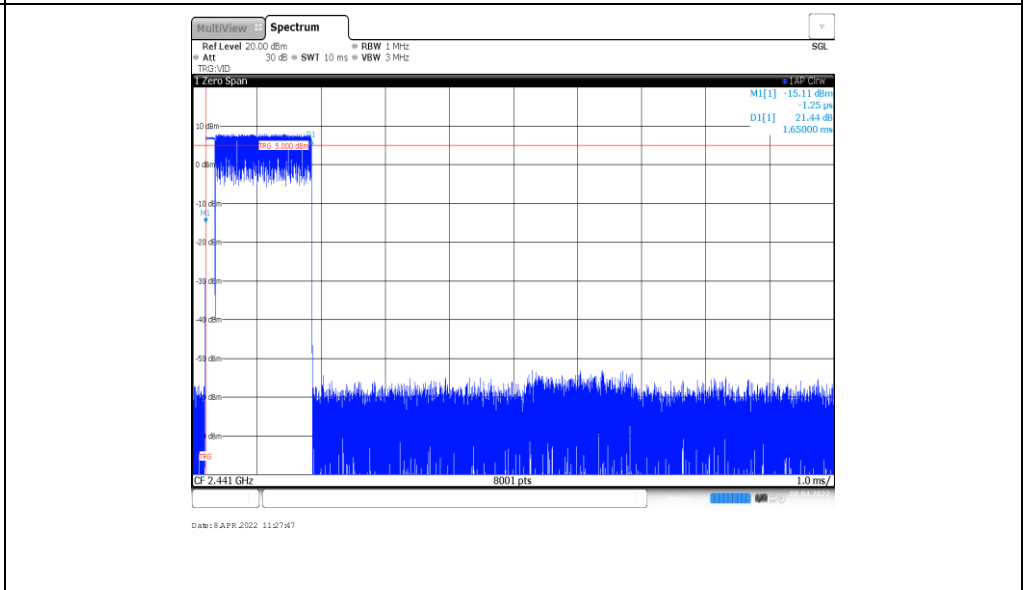
2DH1
Burst width



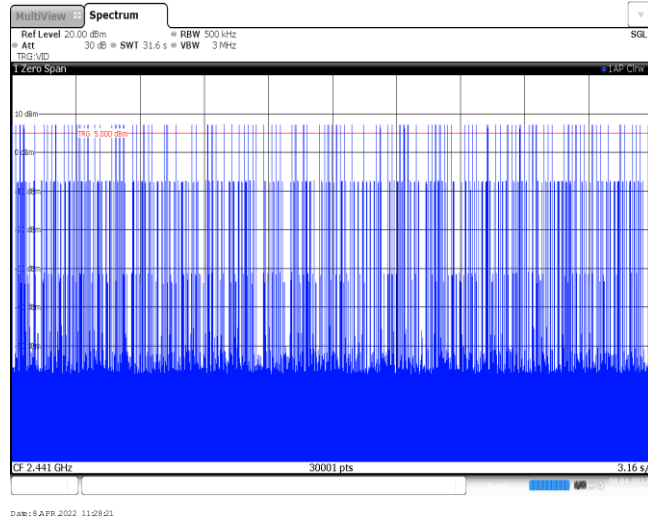
2DH1
Burst number



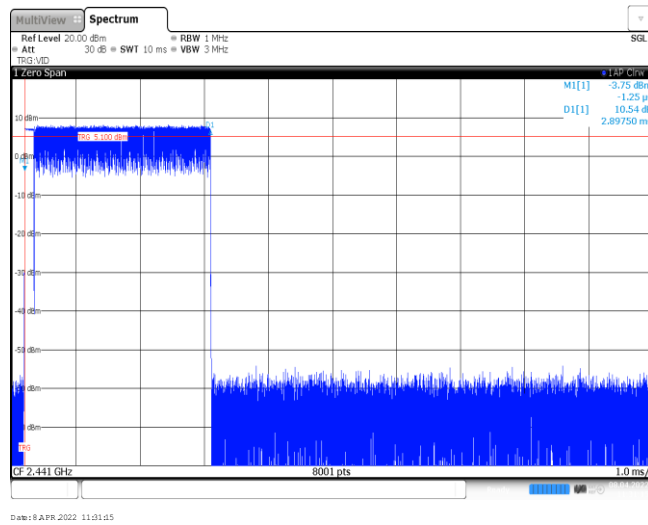
2DH3
Burst width



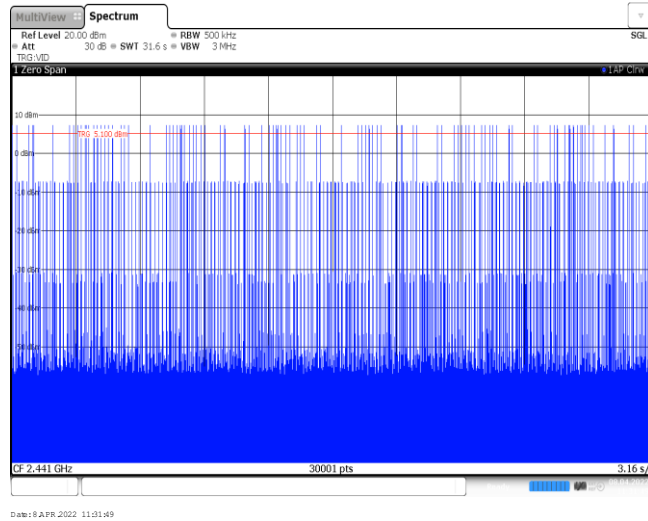
2DH3
Burst number



2DH5
Burst width

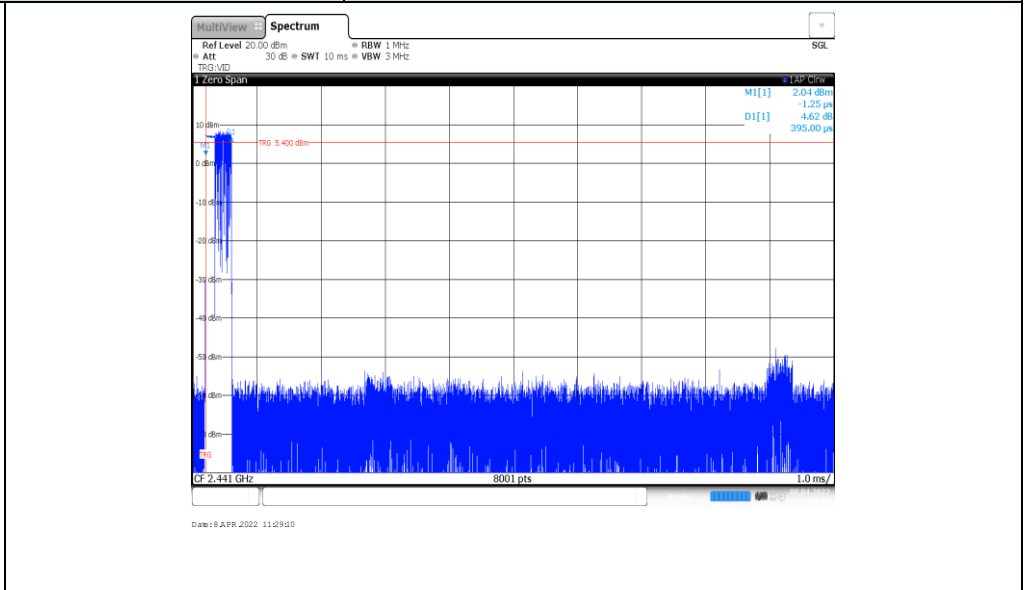


2DH5
Burst number

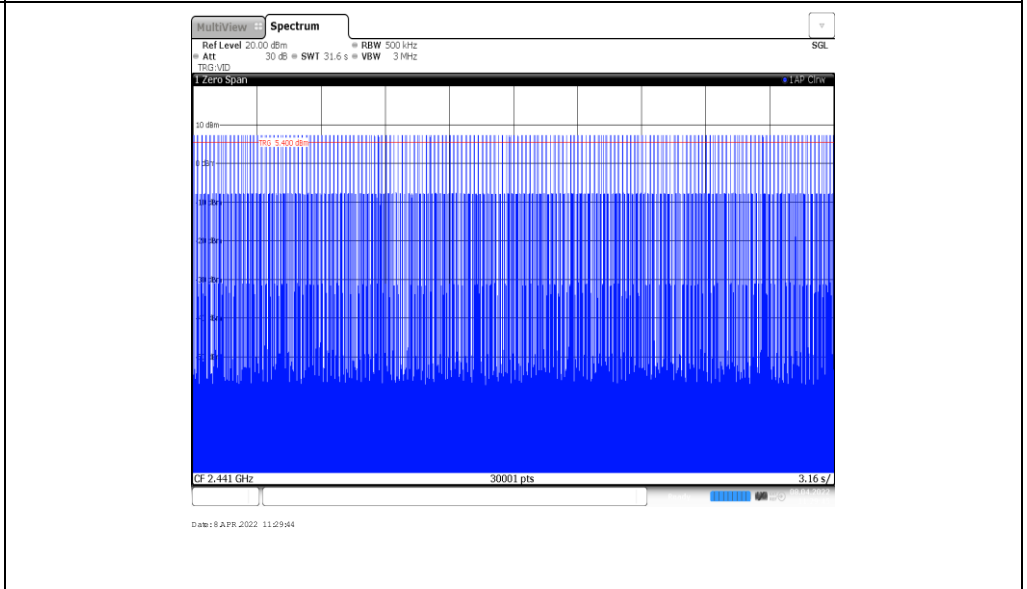


Modulation Type: 8DPSK

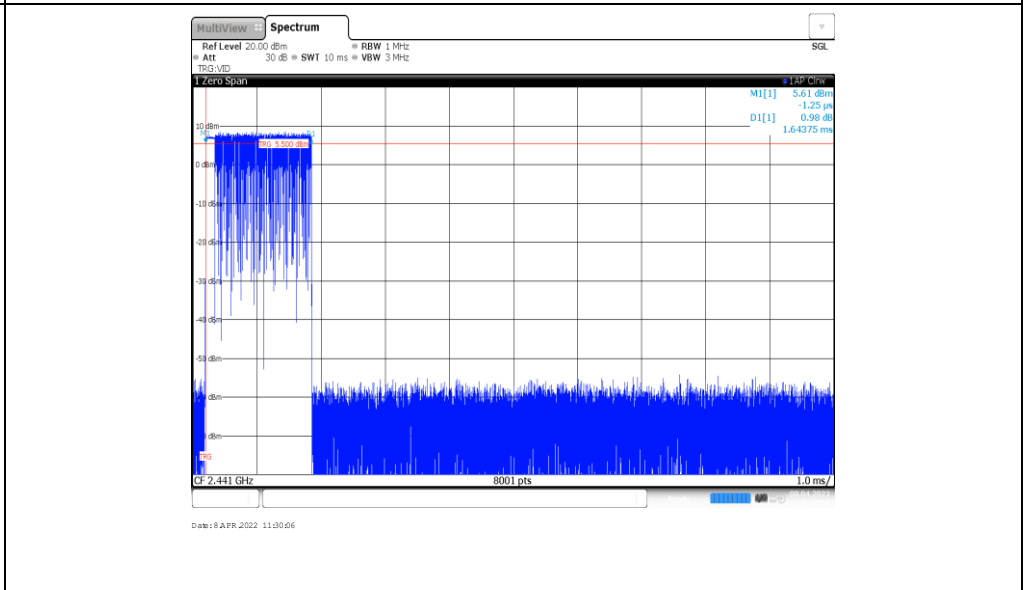
3DH1
Burst width



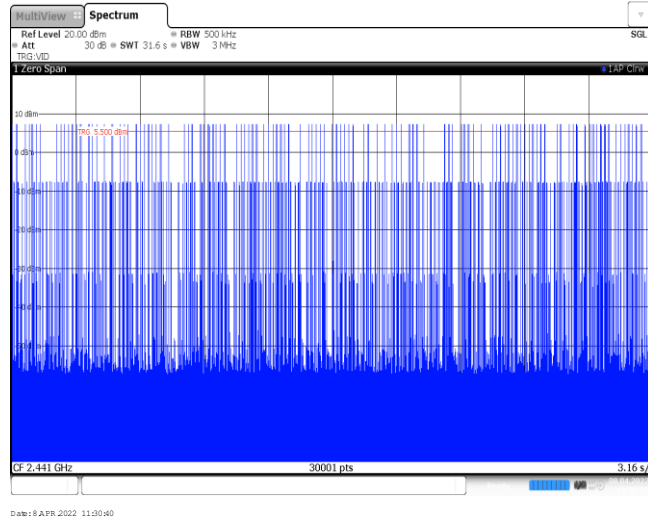
3DH1
Burst number



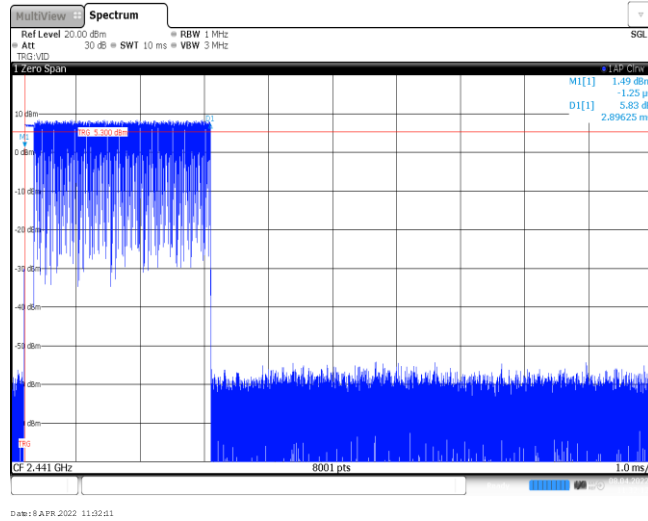
3DH3
Burst width



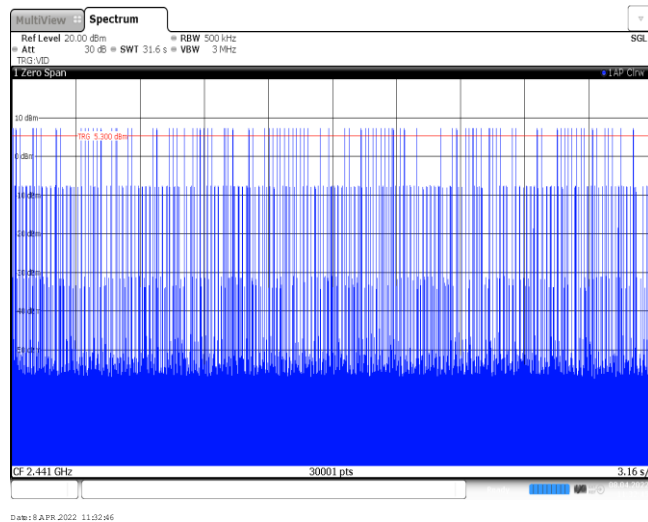
3DH3
Burst number



3DH5
Burst width



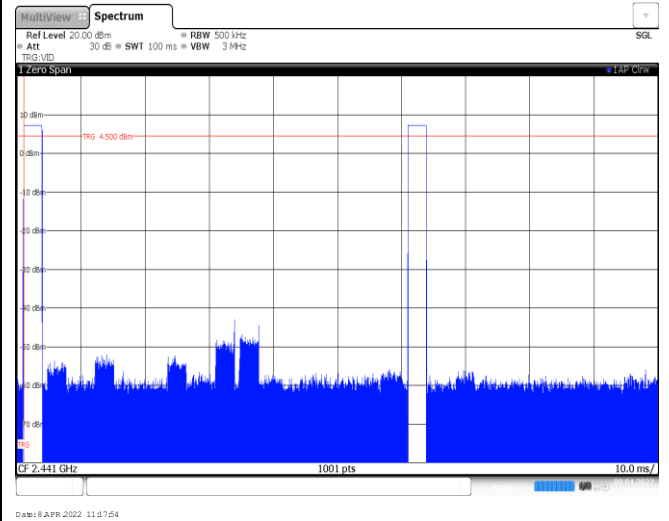
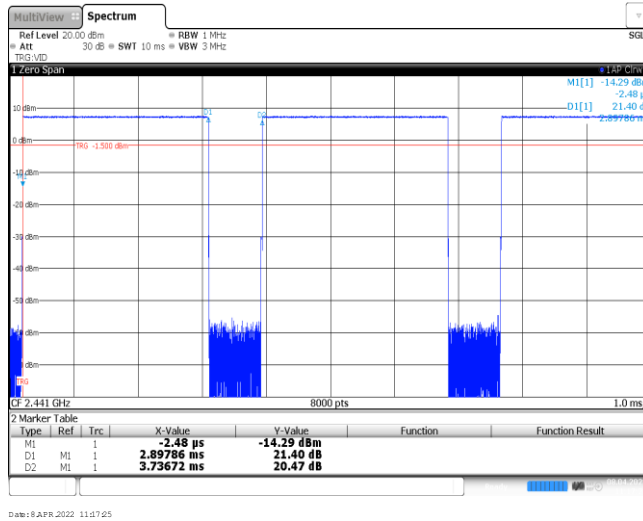
3DH5
Burst number



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	2.90	100	2	-24.73
$\pi/4$ DQPSK	2441	2.89	100	1	-30.78
8DPSK	2441	2.89	100	1	-30.78

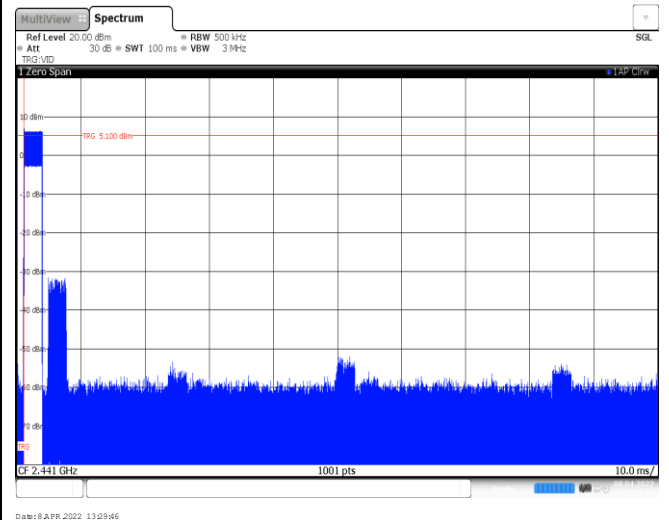
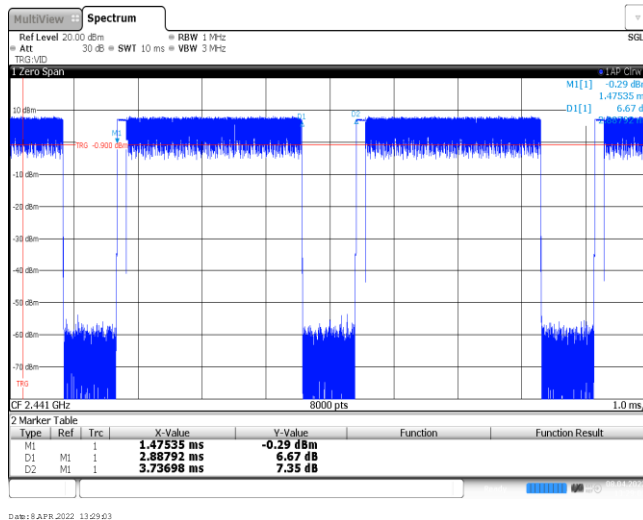
GFSK



Ton time for single burst

Burst Quantity

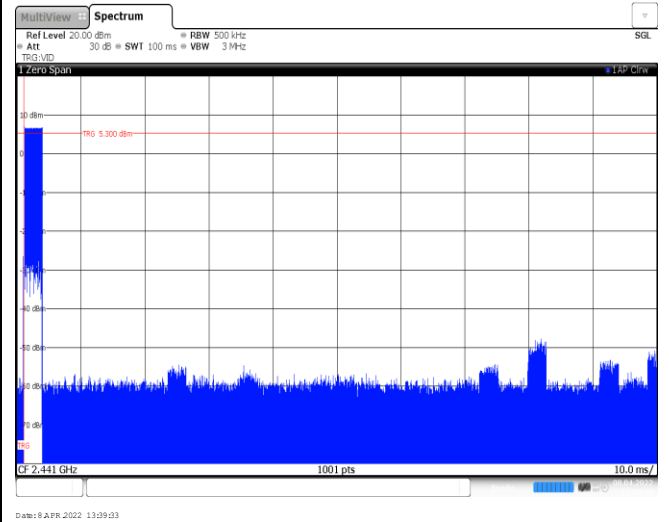
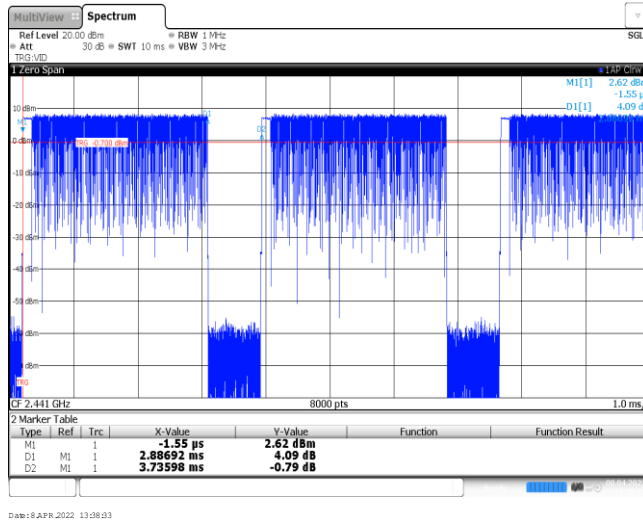
$\pi/4$ DQPSK



Ton time for single burst

Burst Quantity

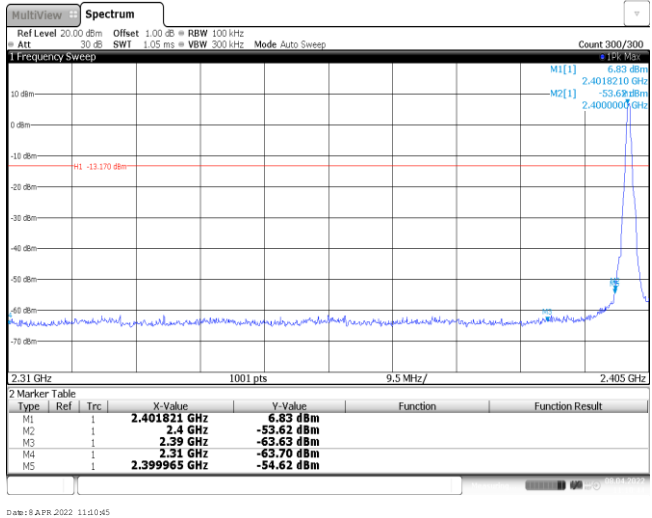
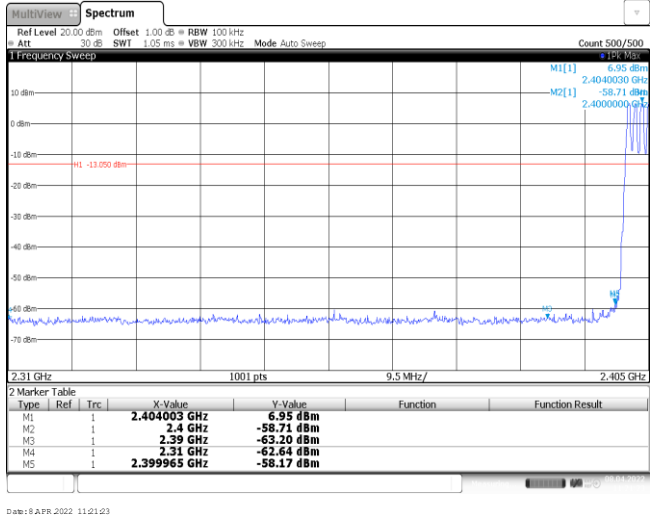
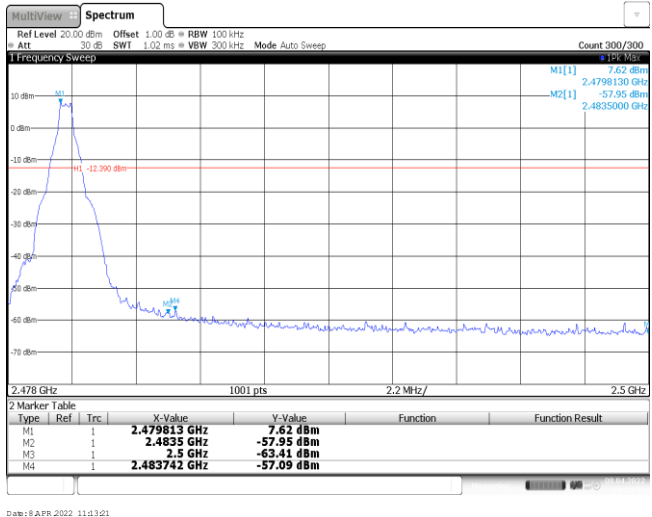
8DPSK



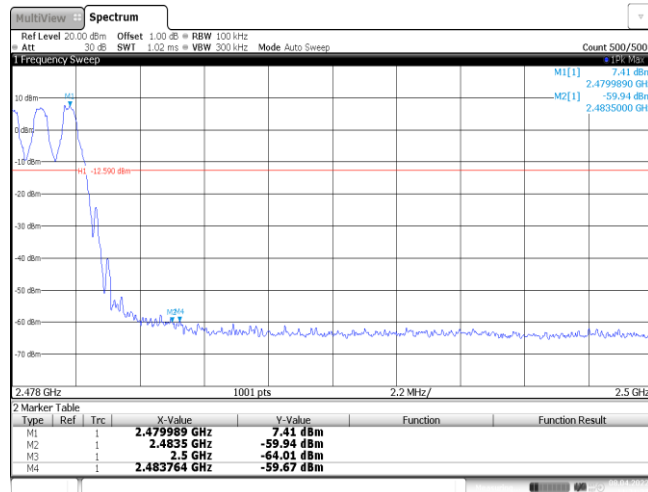
Ton time for single burst

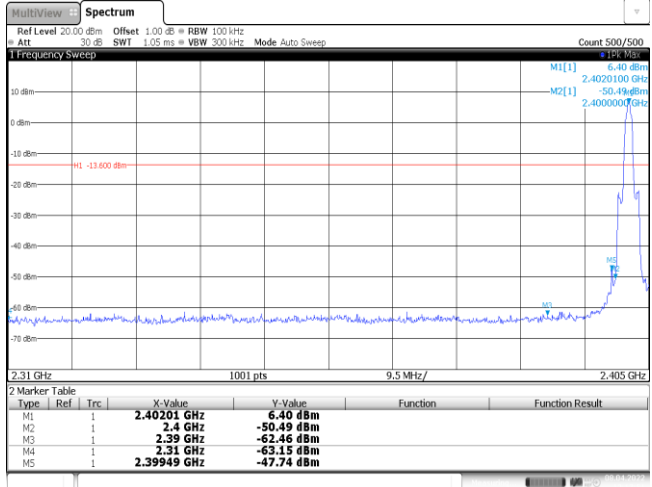
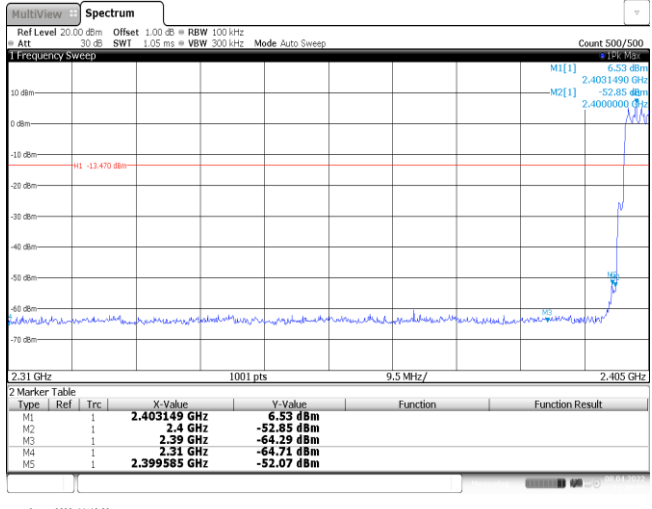
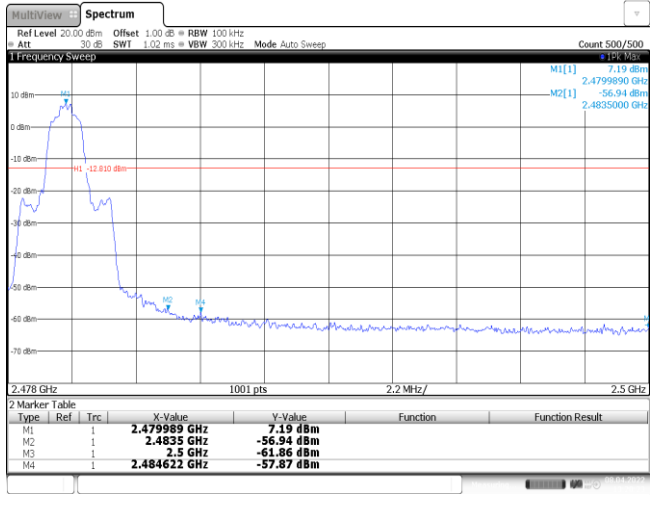
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

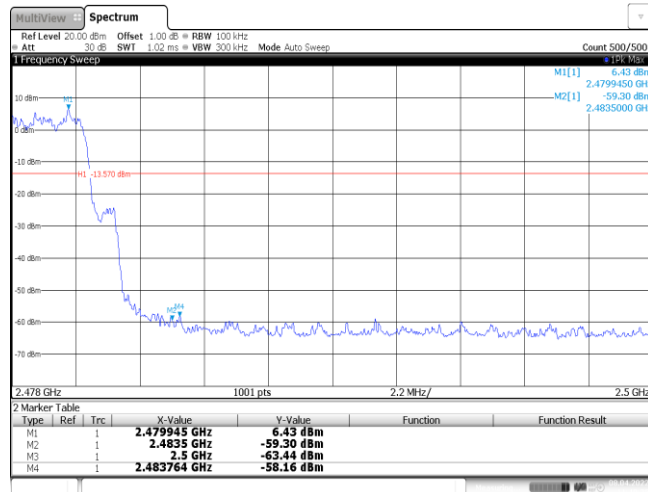
Test Item:	Band edge	Modulation type:	GFSK
<p>CH00 No hopping mode</p>			
<p>CH00 Hopping mode</p>			
<p>CH78 No hopping mode</p>			

CH78
Hopping mode



Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="683 638 1337 728"> <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>2.40201 GHz</td> <td>6.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39949 GHz</td> <td>-47.74 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 8 APR 2022 13:47:51</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	6.40 dBm			M2	1		2.4 GHz	-50.49 dBm			M3	1		2.39 GHz	-62.46 dBm			M4	1		2.31 GHz	-63.15 dBm			M5	1		2.39949 GHz	-47.74 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40201 GHz	6.40 dBm																																									
M2	1		2.4 GHz	-50.49 dBm																																									
M3	1		2.39 GHz	-62.46 dBm																																									
M4	1		2.31 GHz	-63.15 dBm																																									
M5	1		2.39949 GHz	-47.74 dBm																																									
<p>CH00 Hopping mode</p>	 <table border="1" data-bbox="683 1187 1337 1276"> <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>2.403149 GHz</td> <td>6.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-64.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399585 GHz</td> <td>-52.07 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 8 APR 2022 11:40:20</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.403149 GHz	6.53 dBm			M2	1		2.4 GHz	-52.85 dBm			M3	1		2.39 GHz	-64.29 dBm			M4	1		2.31 GHz	-64.71 dBm			M5	1		2.399585 GHz	-52.07 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M2	1		2.4 GHz	-52.85 dBm																																									
M3	1		2.39 GHz	-64.29 dBm																																									
M4	1		2.31 GHz	-64.71 dBm																																									
M5	1		2.399585 GHz	-52.07 dBm																																									
<p>CH78 No hopping mode</p>	 <table border="1" data-bbox="683 1736 1337 1825"> <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>2.479989 GHz</td> <td>7.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-56.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-61.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484622 GHz</td> <td>-57.87 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 8 APR 2022 13:20:24</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	7.19 dBm			M2	1		2.4835 GHz	-56.94 dBm			M3	1		2.5 GHz	-61.86 dBm			M4	1		2.484622 GHz	-57.87 dBm									
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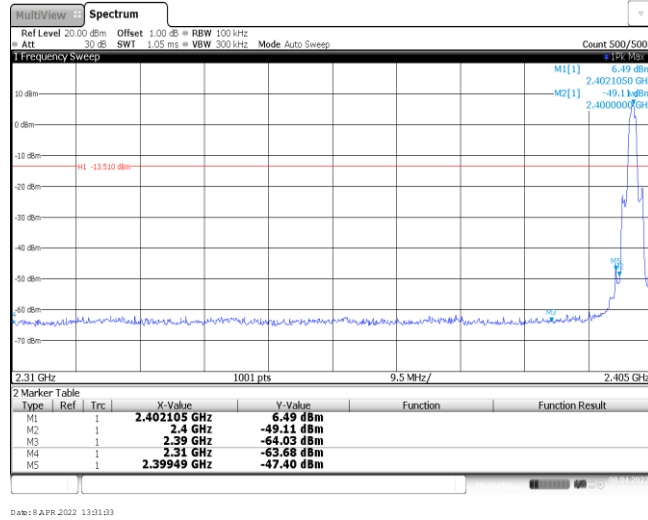
CH78
Hopping mode



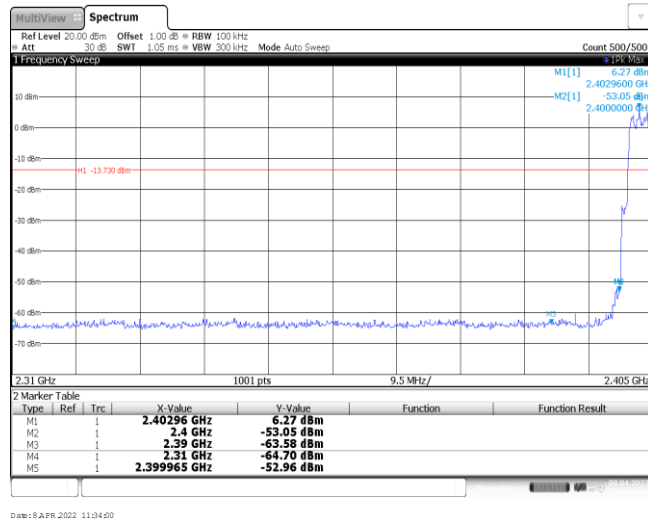
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Test Item:	Band edge	Modulation type:	8DPSK
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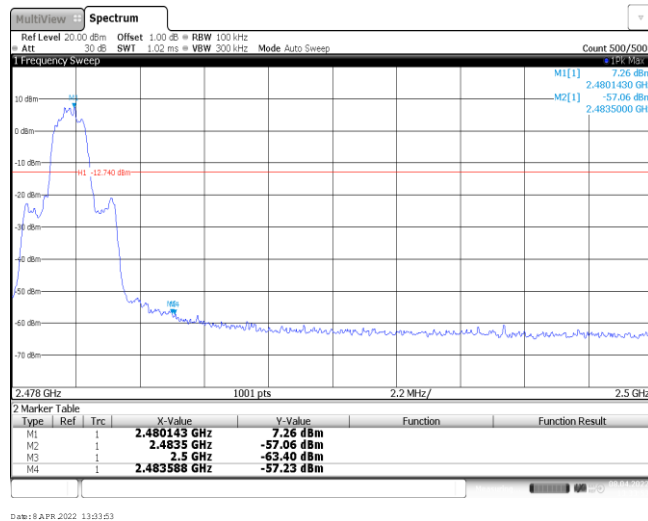
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No hopping mode



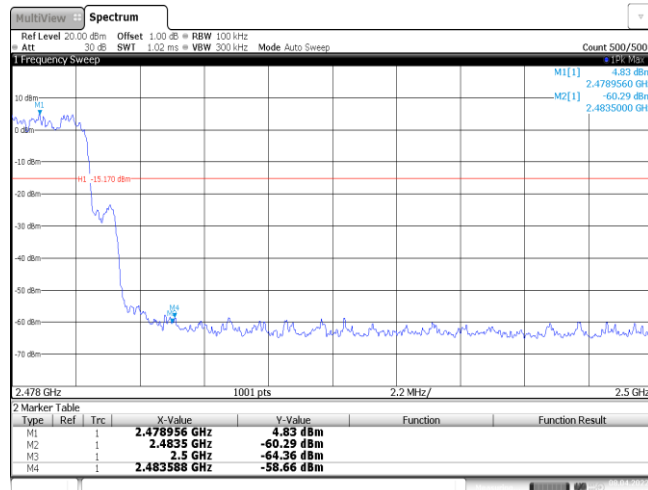
CH00
Hopping mode



CH78
No hopping mode

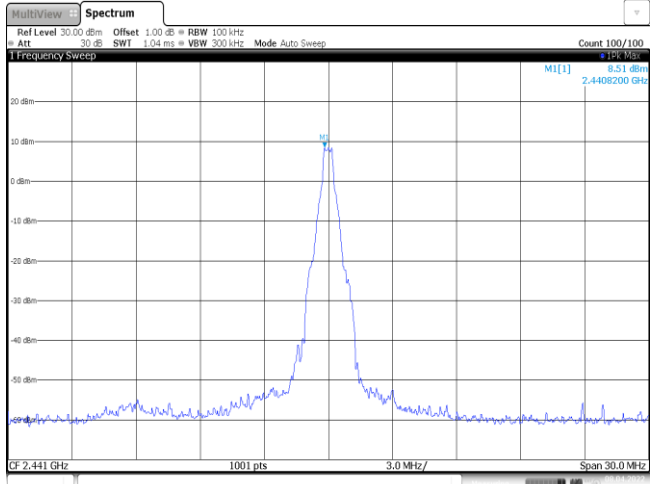
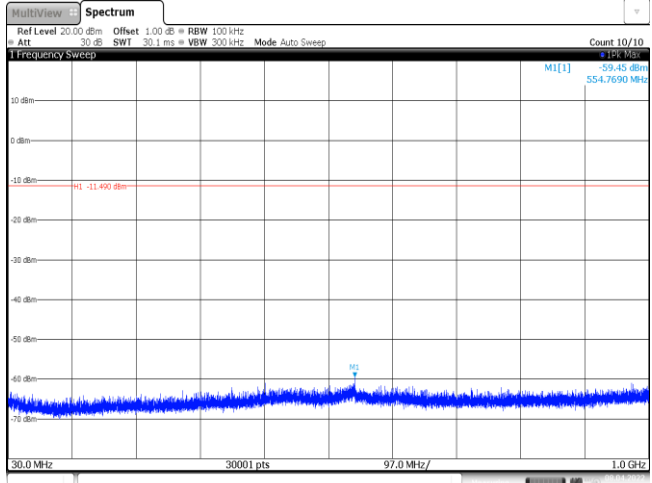
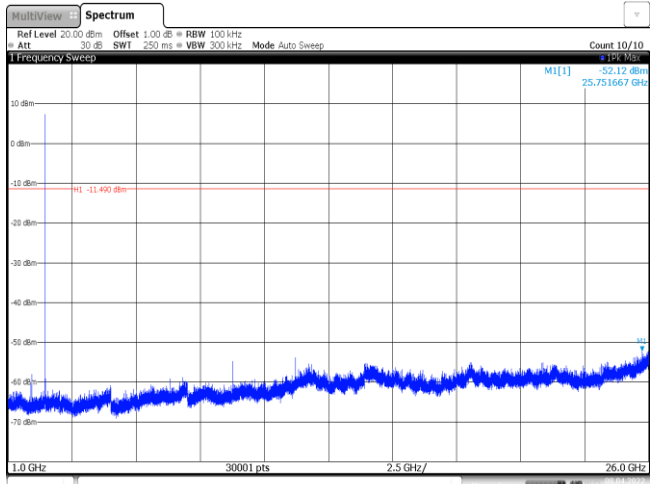


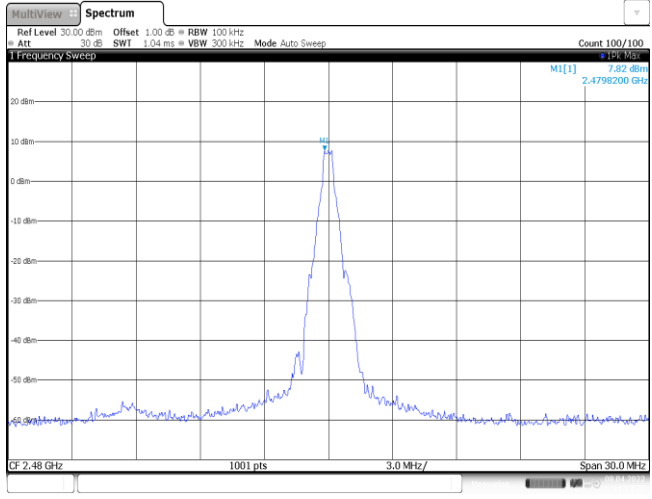
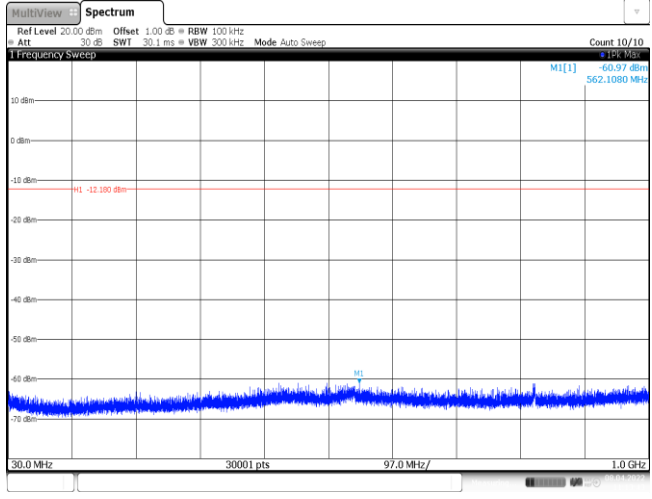
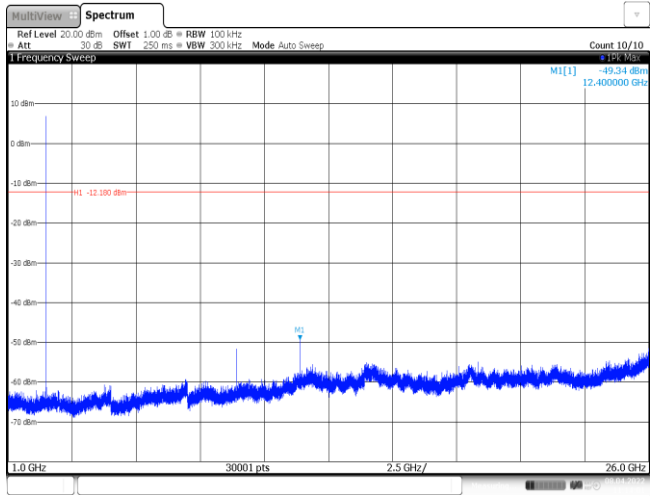
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Hoppig mode

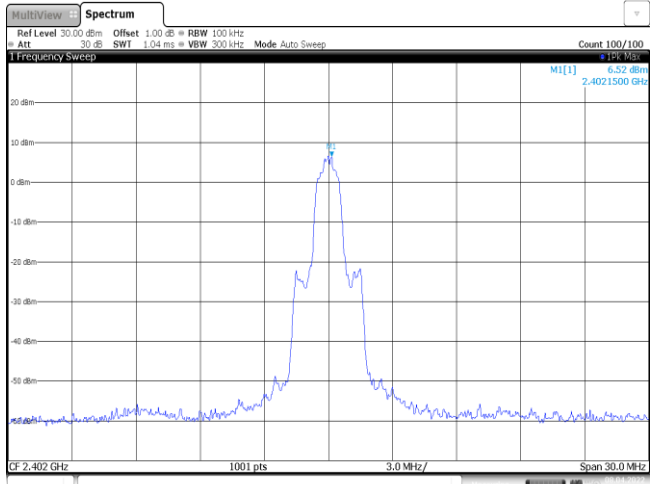
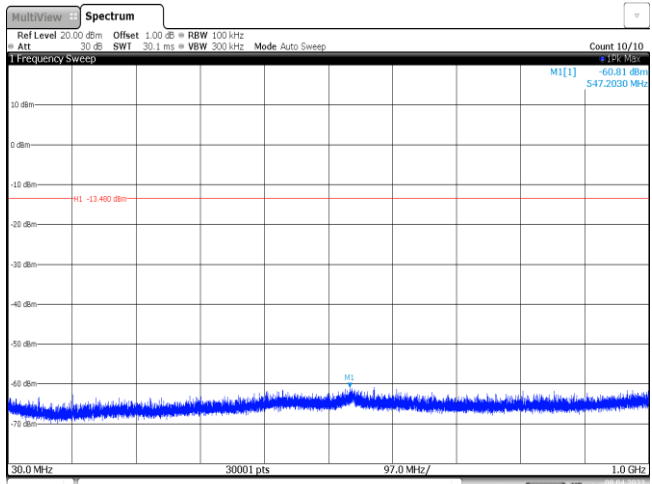
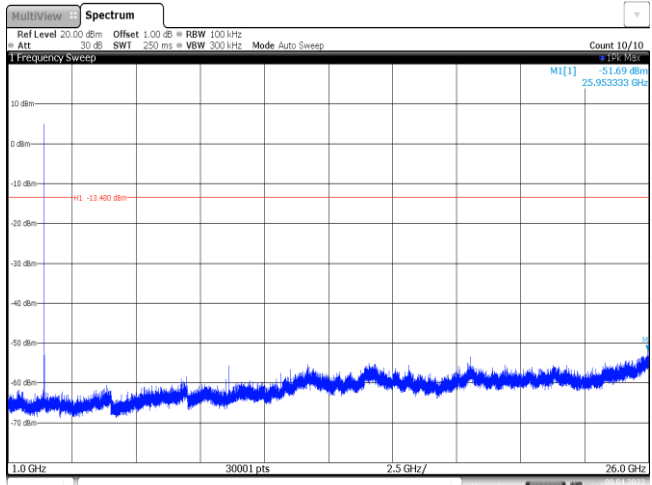


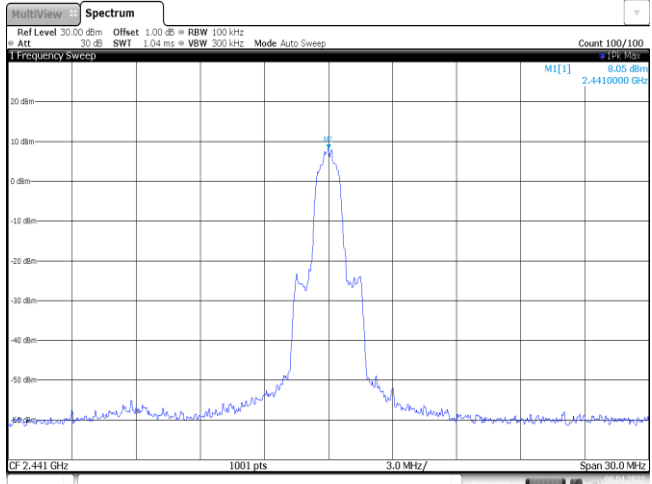
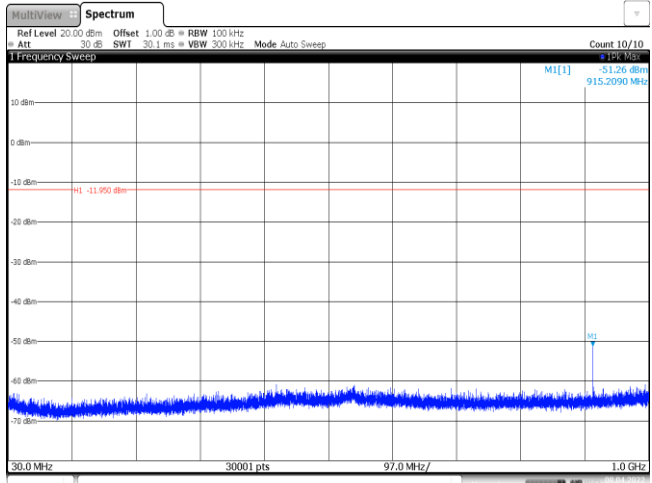
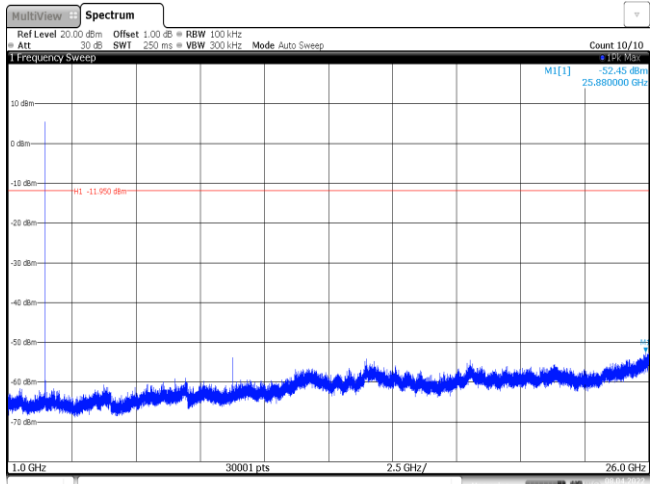
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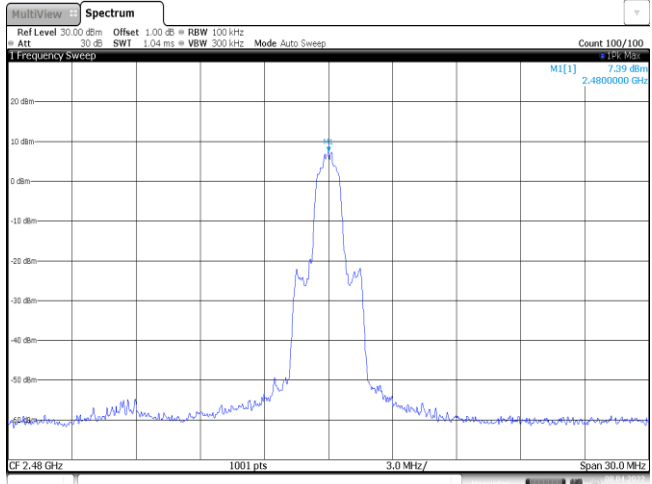
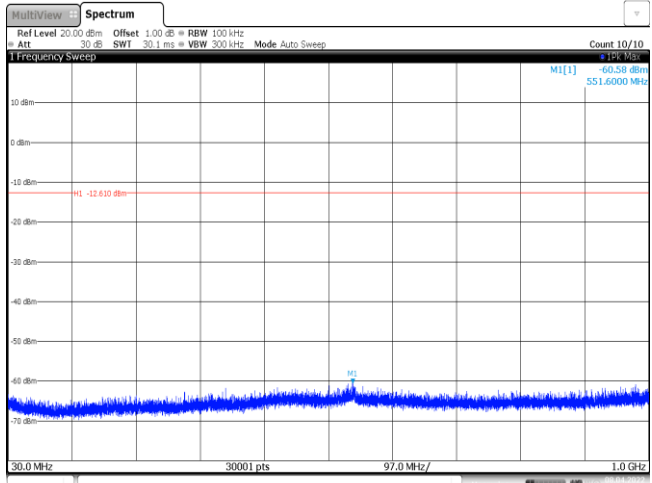
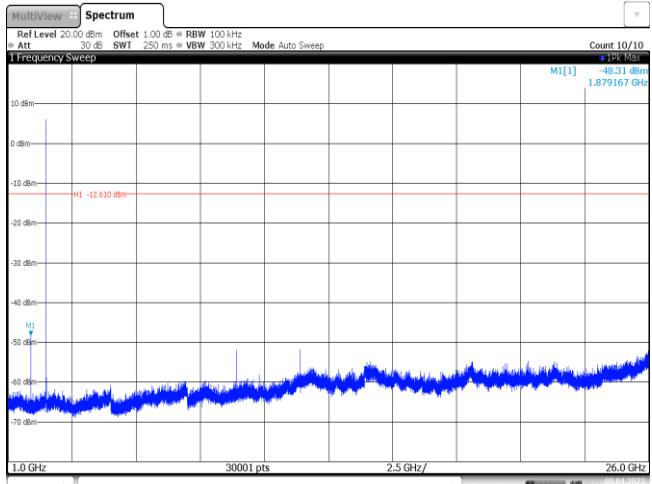
Test Item:	Spurious Emission	Modulation type:	GFSK
<p>CH00 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 6.56 dBm 2.4018200 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 APR 2022 11:10:54</p>		
<p>CH00 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Frequency Sweep M1[1] -60.62 dBm 507.7900 MHz M1 -13.040 dBm H0 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 11:11:10</p>		
<p>CH00 1GHz~26GHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Frequency Sweep M1[1] -52.74 dBm 25.944167 GHz M1 -13.040 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 APR 2022 11:11:26</p>		

<p>CH39 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 8.51 dBm 2.4408200 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 APR 2022 11:15:56</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -59.45 dBm 554.7690 MHz M1 -11.400 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 11:16:13</p>
<p>CH39 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.12 dBm 25.751667 GHz M1 -11.400 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 APR 2022 11:16:29</p>

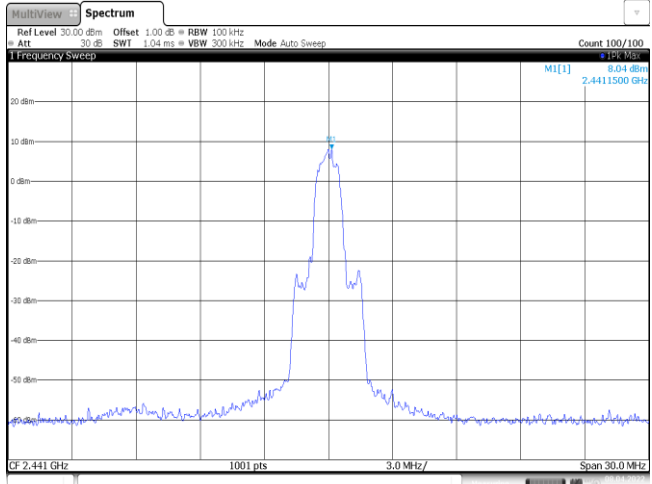
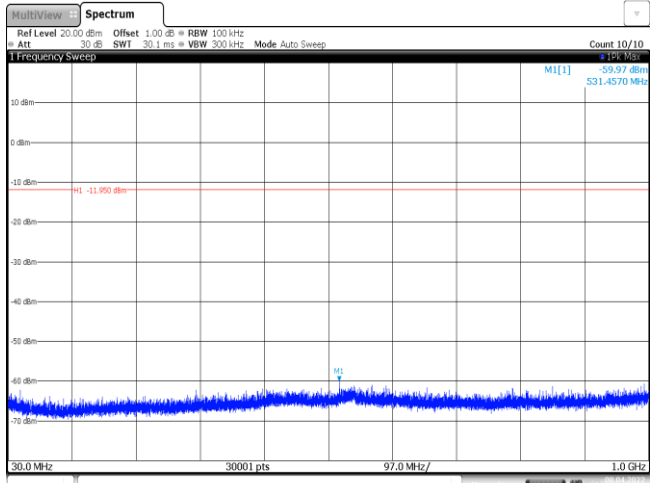
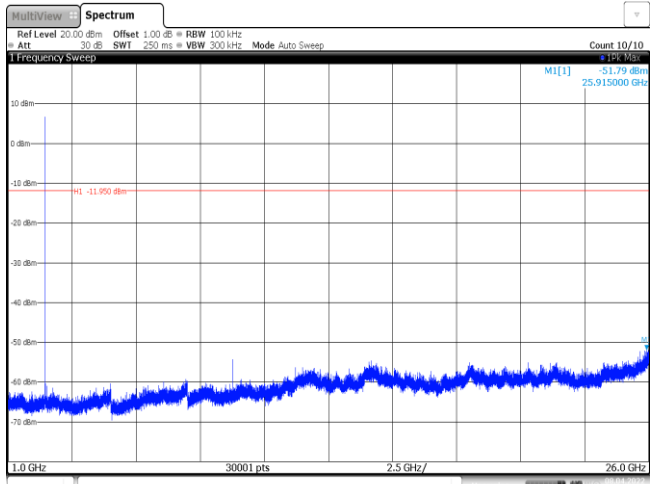
<p>CH78 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 7.82 dBm 2.4796200 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 APR 2022 11:13:28</p>
<p>CH78 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -60.97 dBm 562.1080 MHz MI -12.100 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 11:13:44</p>
<p>CH78 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep MI[1] -49.34 dBm 12.400000 GHz MI -12.100 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 APR 2022 11:14:00</p>

Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 6.52 dBm 2.4021500 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 APR 2022 13:17:58</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.81 dBm 547.2030 MHz MI -13.480 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 13:18:14</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW1 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -51.69 dBm 25.953333 GHz MI -13.480 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 APR 2022 13:18:21</p>		

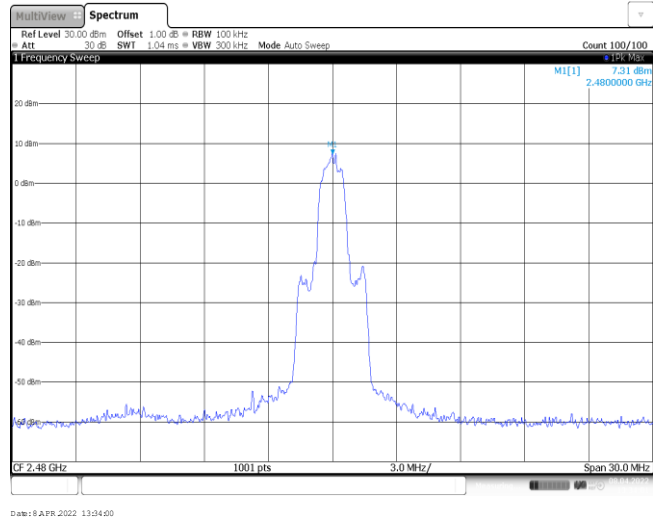
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<p>CH39 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.26 dBm 915.2090 MHz M2 -11.950 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 13:25:22</p>
<p>CH39 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.45 dBm 25.880000 GHz M2 -11.950 dBm 1.0 GHz 30001 pts 25.0 GHz/ 26.0 GHz Date: 8 APR 2022 13:25:29</p>

<p>CH78 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 7.39 dBm 2.480000 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 APR 2022 13:22:41</p>
<p>CH78 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.58 dBm 551.6000 MHz MI -12.610 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 13:22:56</p>
<p>CH78 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -48.31 dBm 1.879167 GHz MI -12.610 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 APR 2022 13:23:13</p>

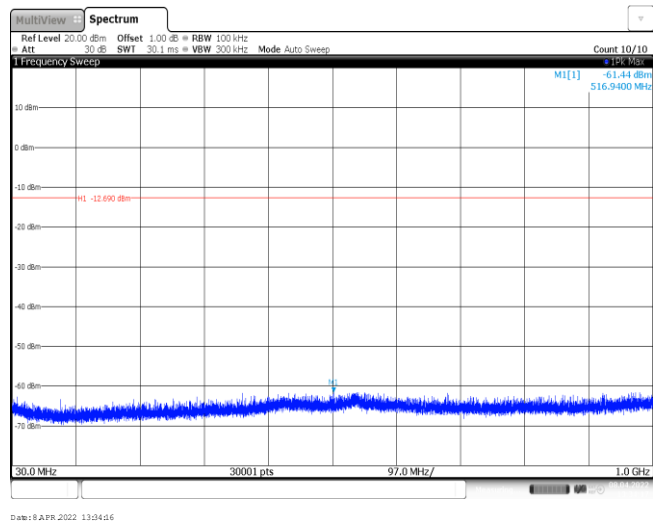
Test Item:	Spurious Emission	Modulation type:	8DPSK
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<p>CH00 1GHz~26GHz</p>			

<p>CH39 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 8.04 dBm 2.441500 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 APR 2022 13:26:18</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -59.97 dBm 531.4570 MHz M1 -11.950 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 APR 2022 13:26:24</p>
<p>CH39 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.79 dBm 25.915000 GHz M1 -11.950 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 APR 2022 13:26:51</p>

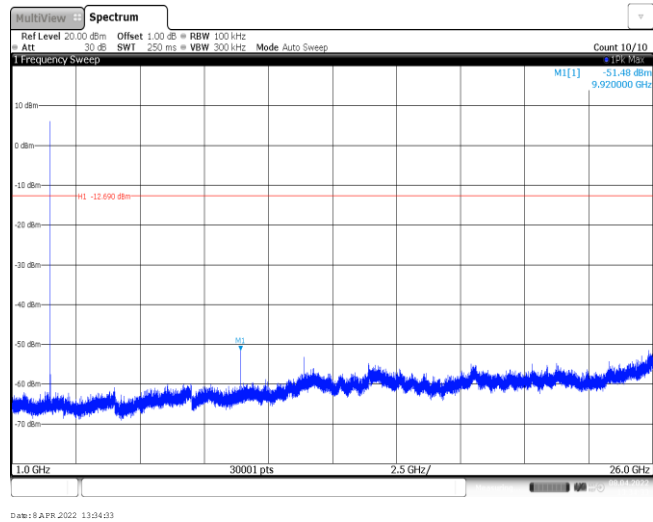
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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