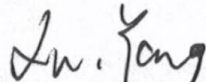


APPENDIX REPORT

Project No.	SHT2309044601EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT23090446001_01	Model No.	Flip K
Start test date	2023-09-27	Finish date	2023-09-27
Temperature	23.7℃	Humidity	49%
Test Engineer	Xiaodong Zhao	Auditor	

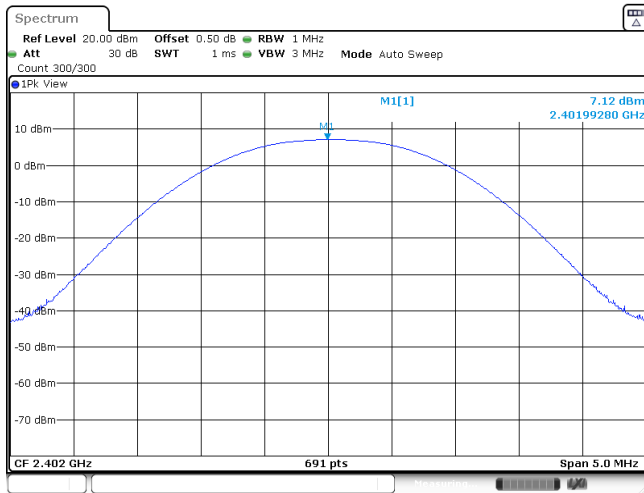
Appendix clause	Test item	Result
A	Peak Output Power	Pass
B	20 dB Bandwidth	Pass
C	99% Occupied Bandwidth	Pass
D	Carrier Frequencies Separation	Pass
E	Hopping Channel Number	Pass
F	Dwell Time	Pass
G	Duty Cycle Correction Factor (DCCF)	Pass
H	Band edge and Spurious Emissions(coducted)	Pass

Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	7.12	7.03	≤ 30.00	Pass
	39	6.95	6.81		
	78	6.99	6.84		
π/4DQPSK	00	6.34	6.20	≤ 21.00	Pass
	39	6.15	6.09		
	78	6.34	6.18		
8DPSK	00	6.30	6.16	≤ 21.00	Pass
	39	6.09	5.89		
	78	6.30	6.09		

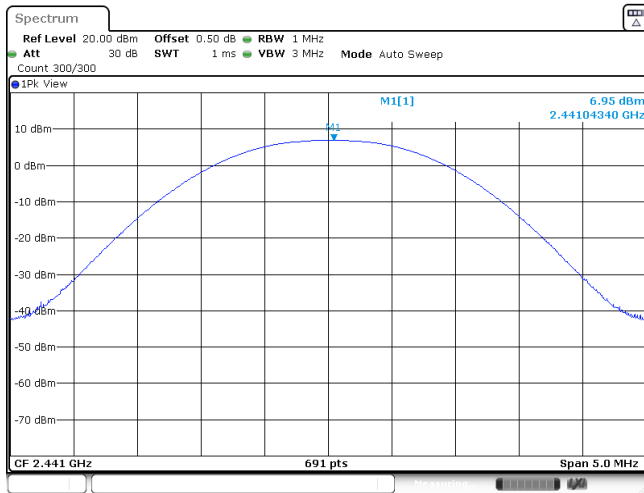
Modulation Type: GFSK

CH00



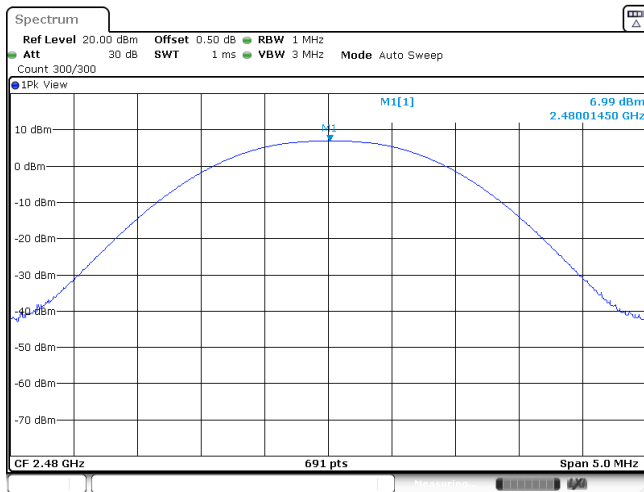
Date: 27 SEP 2023 18:24:10

CH39



Date: 27 SEP 2023 18:25:45

CH78

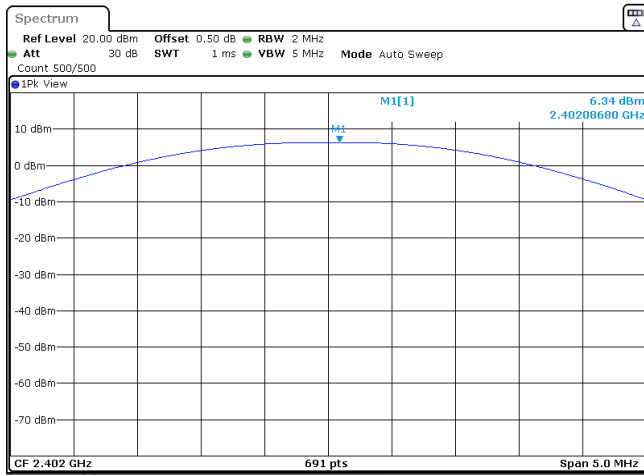


Date: 27 SEP 2023 18:25:11

Modulation Type:

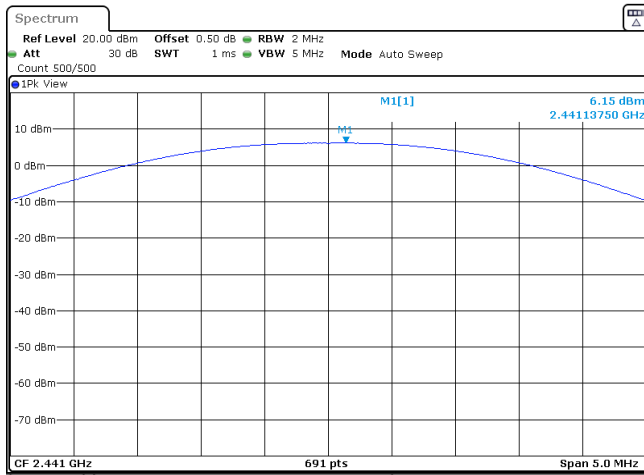
$\pi/4$ DQPSK

CH00



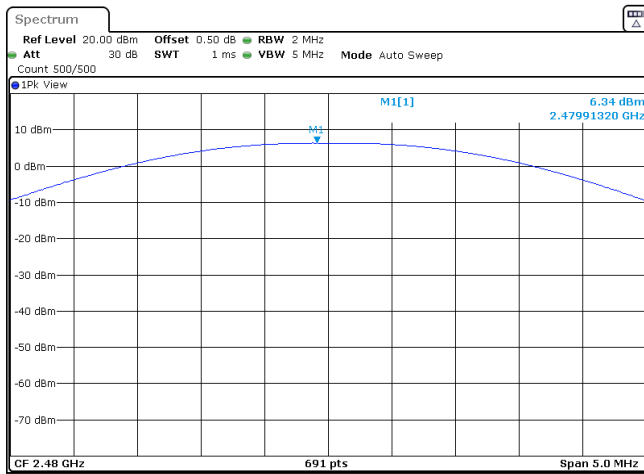
Date: 27 SEP 2023 18:37:47

CH39



Date: 27 SEP 2023 18:39:18

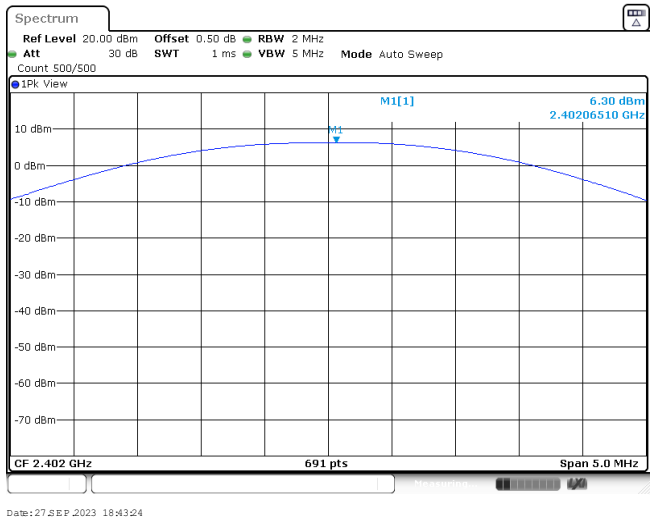
CH78



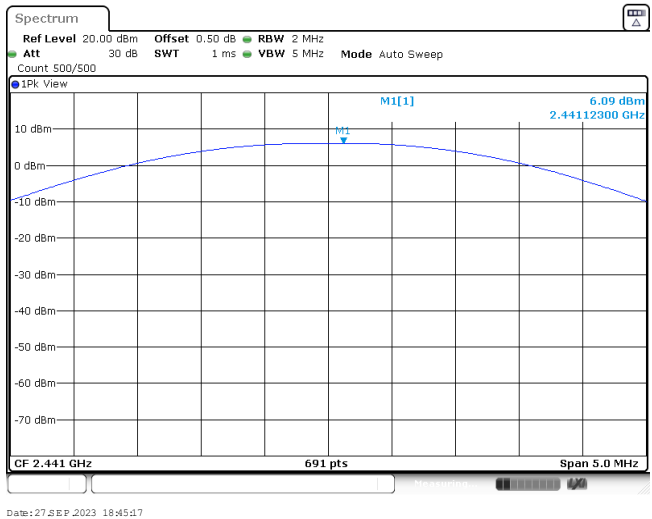
Date: 27 SEP 2023 18:41:36

Modulation Type: 8DPSK

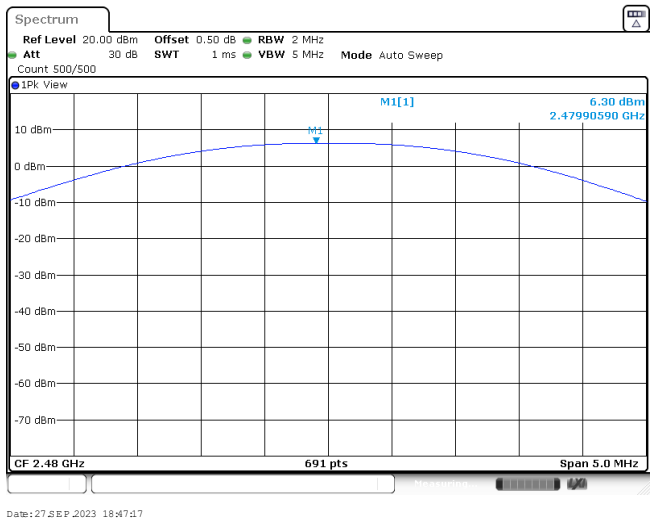
CH00



CH39



CH78

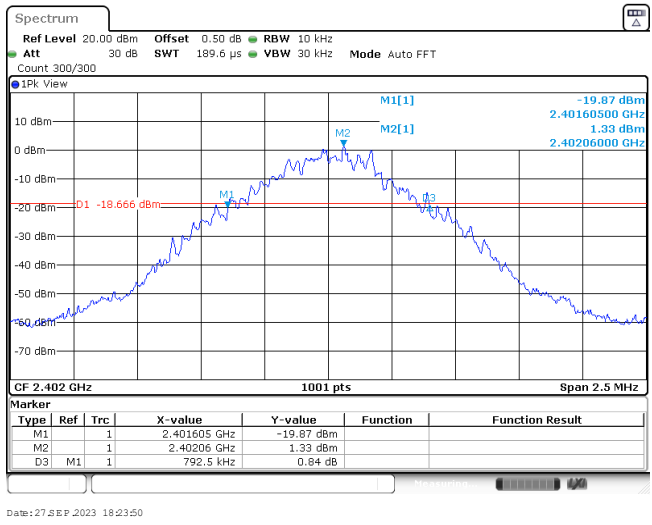


Appendix B : 20 dB Bandwidth

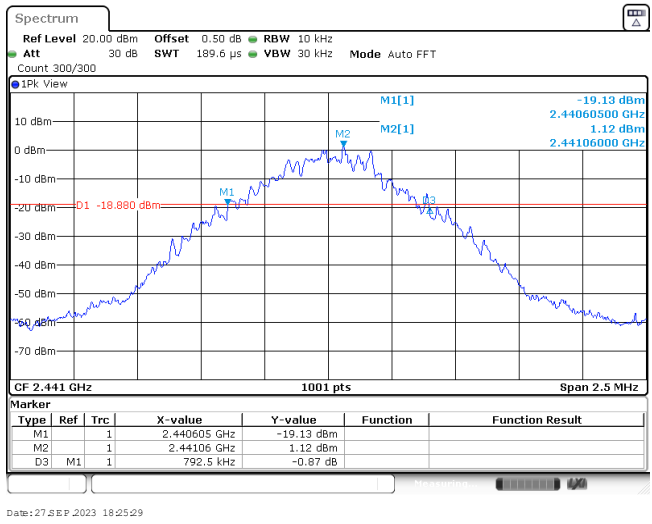
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	793.00	-	Pass
	39	793.00		
	78	793.00		
$\pi/4$ DQPSK	00	1270.00	-	Pass
	39	1265.00		
	78	1263.00		
8DPSK	00	1260.00	-	Pass
	39	1257.00		
	78	1257.00		

Modulation Type: GFSK

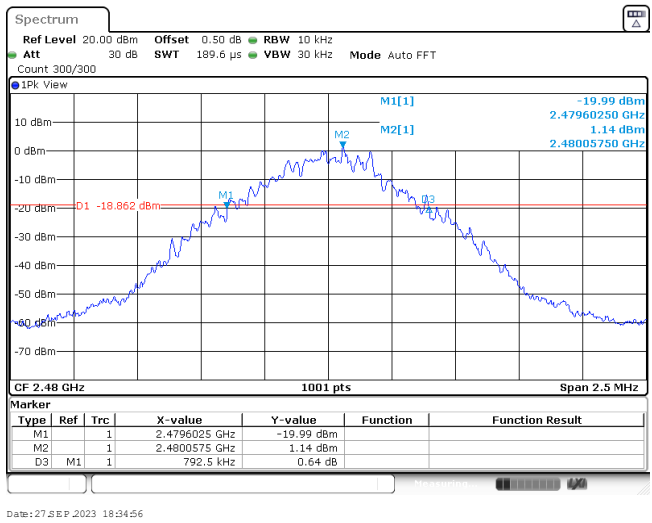
CH00



CH39

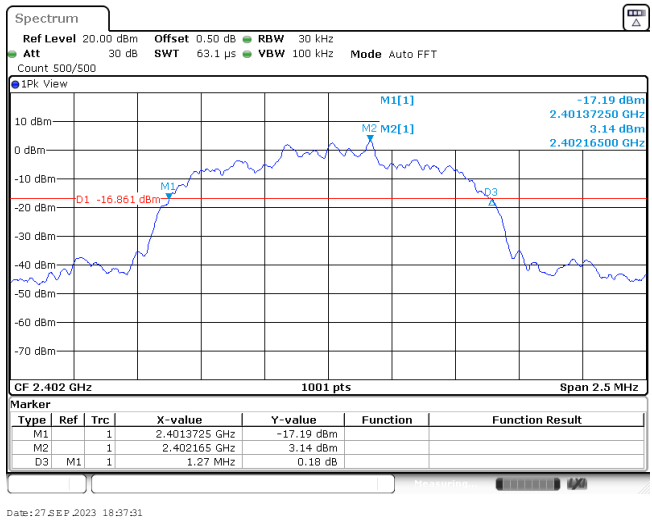


CH78

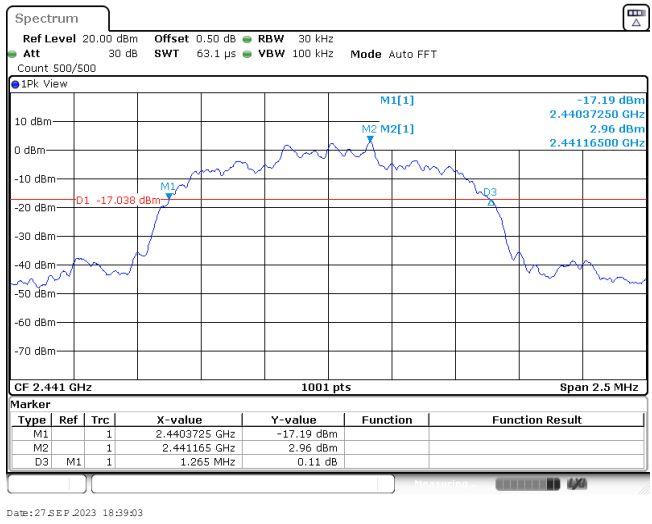


Modulation Type: **$\pi/4$ DQPSK**

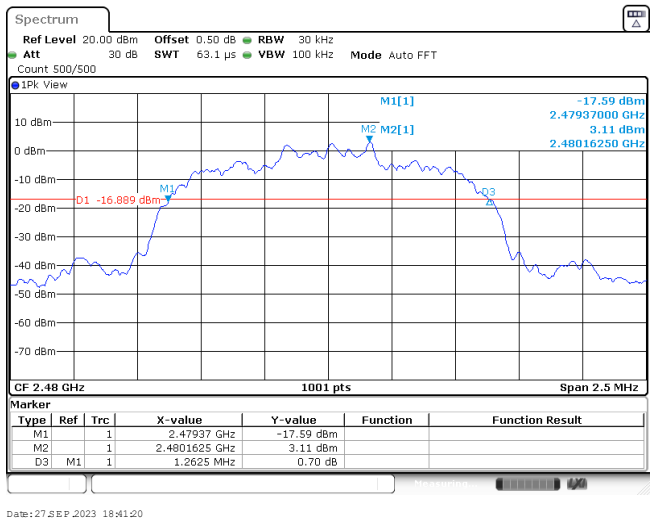
CH00



CH39

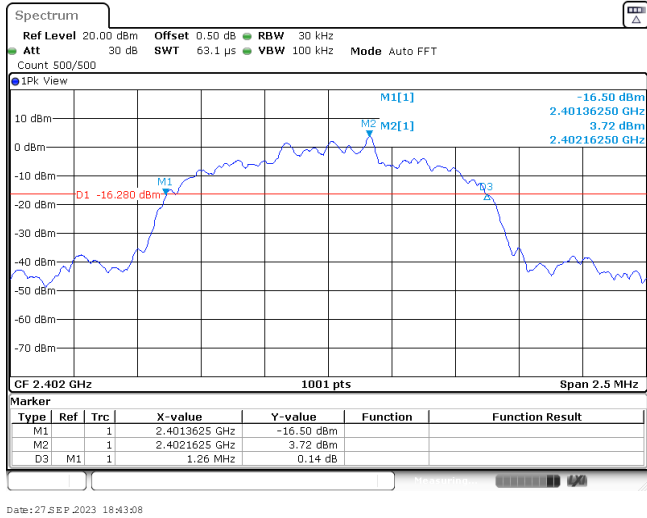


CH78

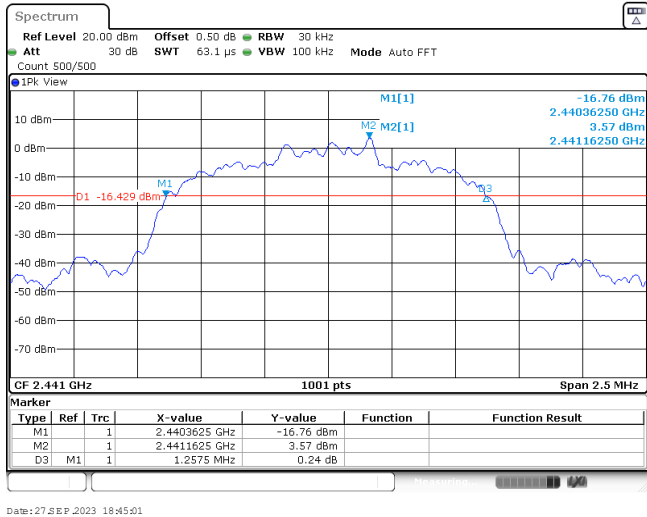


Modulation Type: 8DPSK

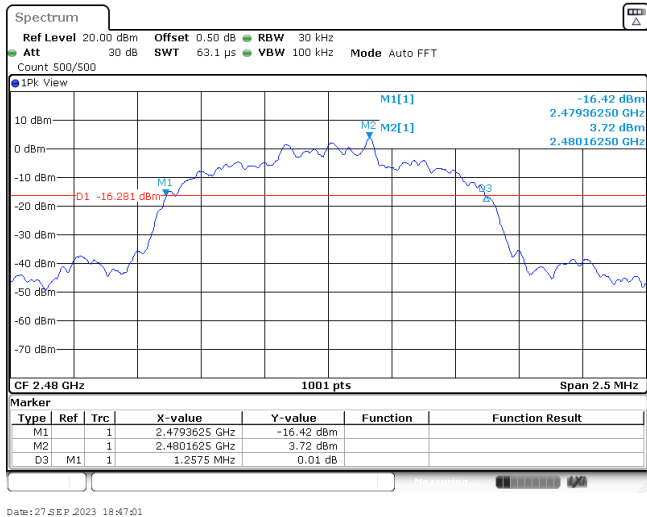
CH00



CH39



CH78



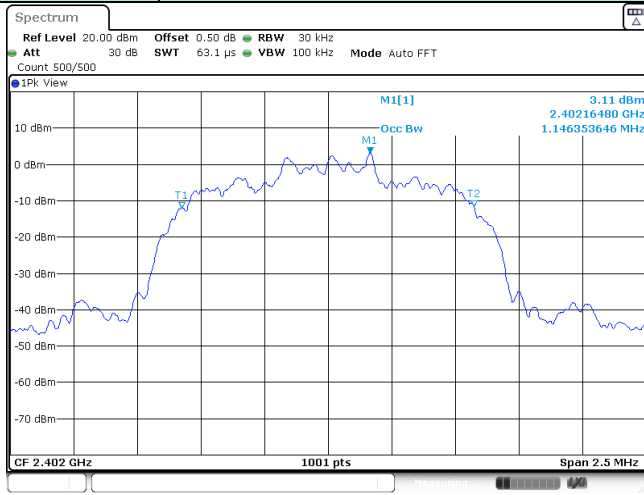
Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.76	-	Pass
	39	0.76		
	78	0.76		
$\pi/4$ DQPSK	00	1.15	-	Pass
	39	1.14		
	78	1.14		
8DPSK	00	1.15	-	Pass
	39	1.15		
	78	1.15		

Modulation Type: GFSK	
CH00	<p>Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT Count 300/300 1Pk View 10 dBm 4.32 dBm 0 dBm 2.40216480 GHz -10 dBm 761.738261738 kHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 1001 pts Span 2.5 MHz Date: 27 SEP 2023 18:24:01</p>
CH39	<p>Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT Count 300/300 1Pk View 10 dBm 4.22 dBm 0 dBm 2.44116480 GHz -10 dBm 759.240759241 kHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz 1001 pts Span 2.5 MHz Date: 27 SEP 2023 18:25:37</p>
CH78	<p>Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT Count 300/300 1Pk View 10 dBm 4.26 dBm 0 dBm 2.48016230 GHz -10 dBm 761.738261738 kHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz 1001 pts Span 2.5 MHz Date: 27 SEP 2023 18:35:03</p>

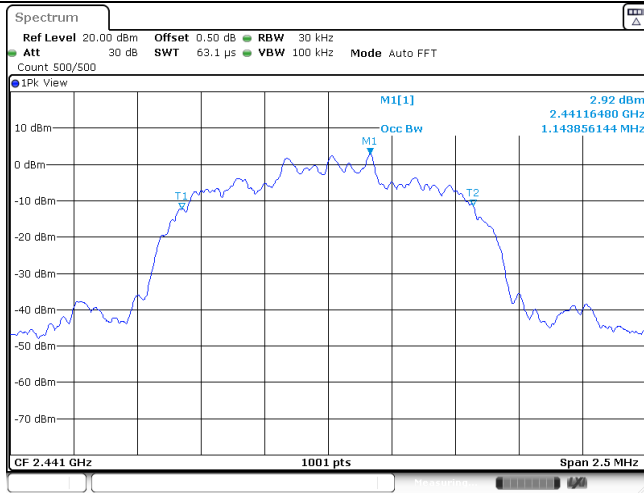
Modulation Type: $\pi/4$ QPSK

CH00



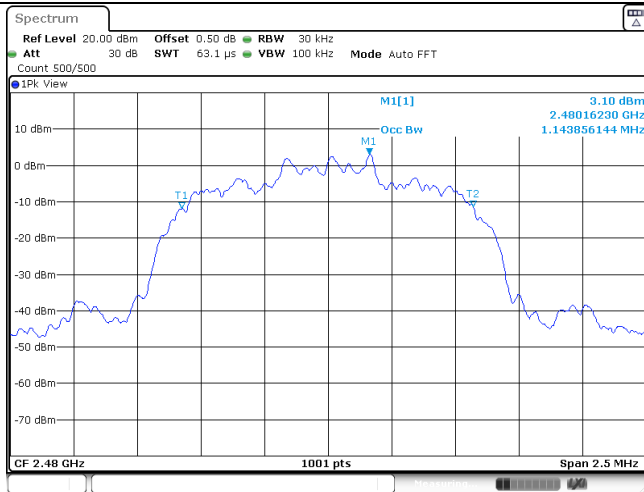
Date: 27 SEP 2023 18:37:38

CH39



Date: 27 SEP 2023 18:39:10

CH78



Date: 27 SEP 2023 18:41:27

Modulation Type: 8DPSK

CH00



Date: 27 SEP 2023 18:43:15

CH39



Date: 27 SEP 2023 19:31:01

CH78



Date: 27 SEP 2023 18:47:09

Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥793.00	Pass
π/4DQPSK	39	1.00	≥846.67	Pass
8DPSK	39	1.00	≥840.00	Pass

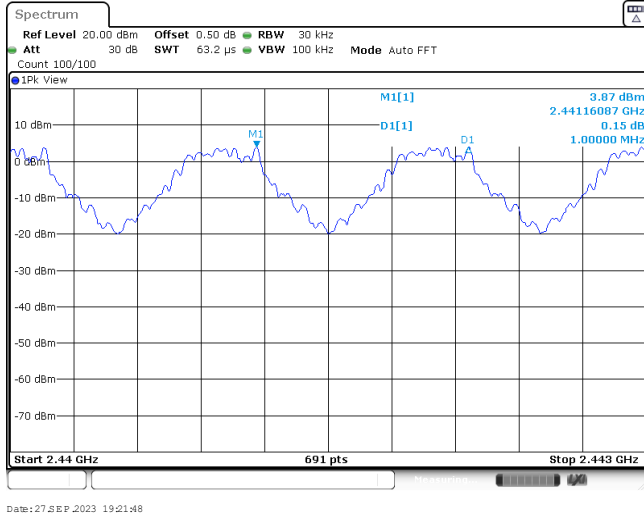
Note:

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

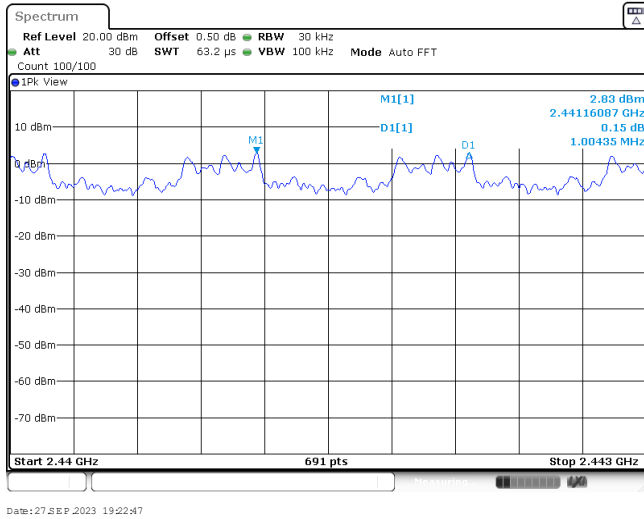
π/4DQPSK limit = 2/3 * The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

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

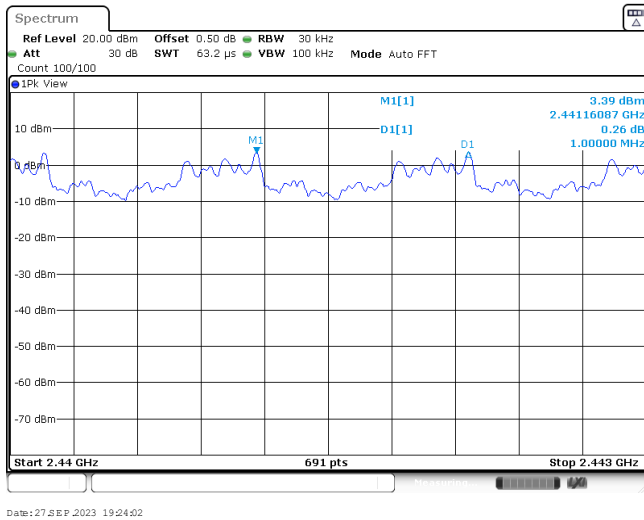
GFSK



$\pi/4$ DQPSK



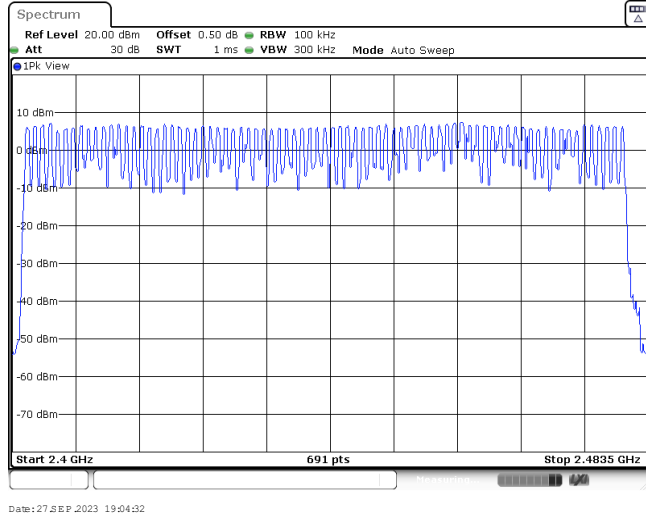
8DPSK



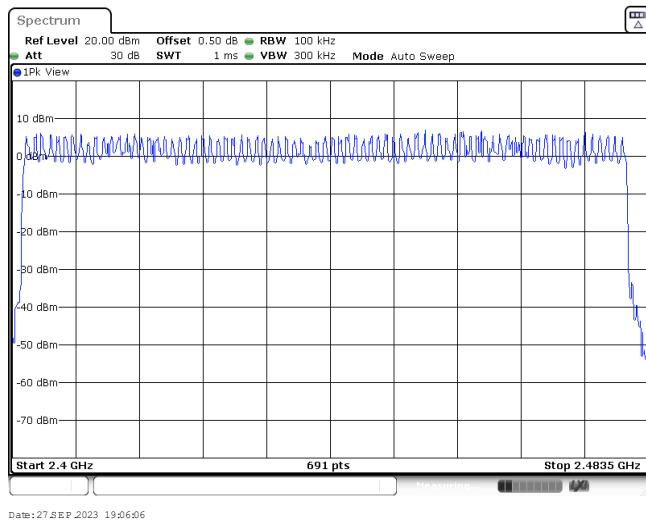
Appendix E: Hopping Channel Number

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

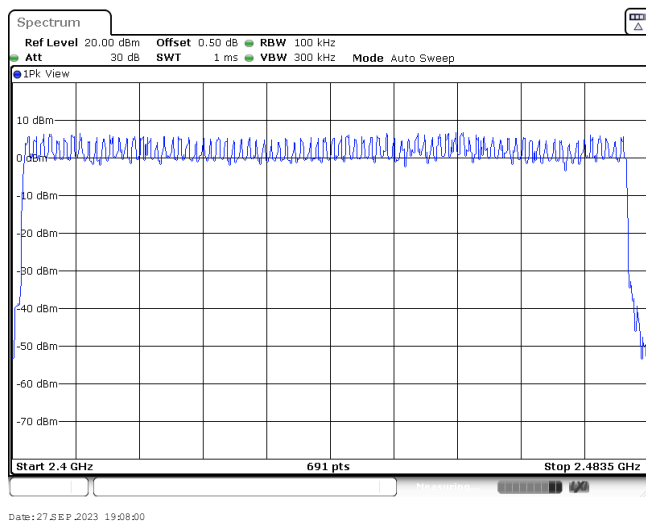
GFSK



$\pi/4$ DQPSK



8DPSK

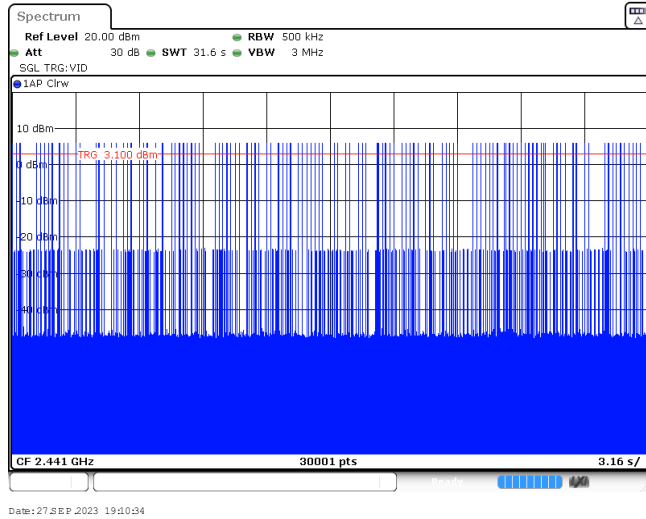


Appendix F: Dwell Time

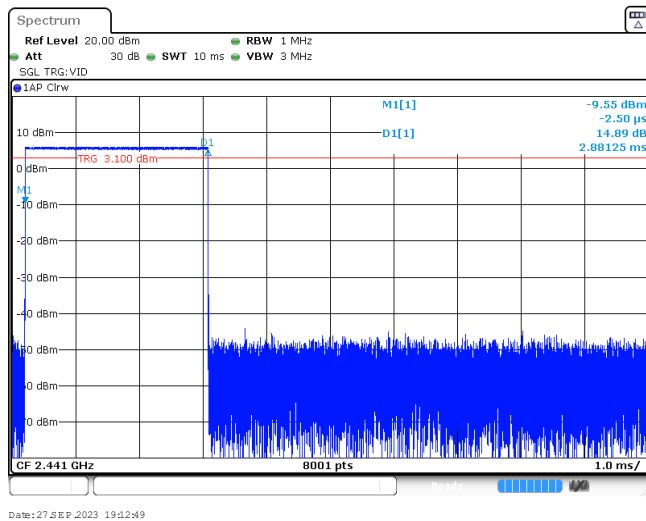
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	315.00	0.12	≤ 0.40	Pass
	DH3	1.63	158.00	0.26		
	DH5	2.88	113.00	0.33		
π/4DQPSK	2DH1	0.38	314.00	0.12	≤ 0.40	Pass
	2DH3	1.64	159.00	0.26		
	2DH5	2.89	102.00	0.29		
8DPSK	3DH1	0.38	310.00	0.12	≤ 0.40	Pass
	3DH3	1.63	162.00	0.27		
	3DH5	2.89	116.00	0.34		

Modulation Type: GFSK	
DH1 Burst width	<p>Ref Level 20.00 dBm RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>M1[1] -4.77 dBm -1.25 μs D1[1] 10.20 dB 376.25 μs</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/pt</p> <p>Date: 27 SEP 2023 19:09:02</p>
DH1 Burst number	<p>Ref Level 20.00 dBm RBW 500 kHz Att 30 dB SWT 31.6 s VBW 3 MHz</p> <p>CF 2.441 GHz 30001 pts 3.16 s/pt</p> <p>Date: 27 SEP 2023 19:09:05</p>
DH3 Burst width	<p>Ref Level 20.00 dBm RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz</p> <p>M1[1] -6.72 dBm -1.25 μs D1[1] 12.09 dB 1.63250 ms</p> <p>CF 2.441 GHz 8001 pts 1.0 ms/pt</p> <p>Date: 27 SEP 2023 19:10:01</p>

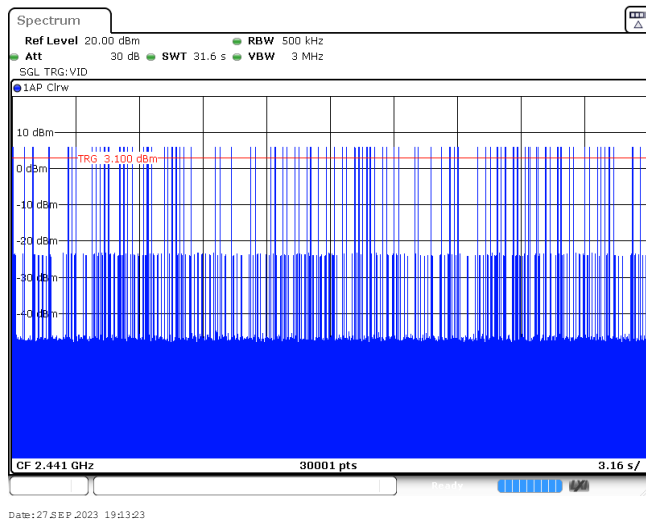
DH3
Burst number



DH5
Burst width

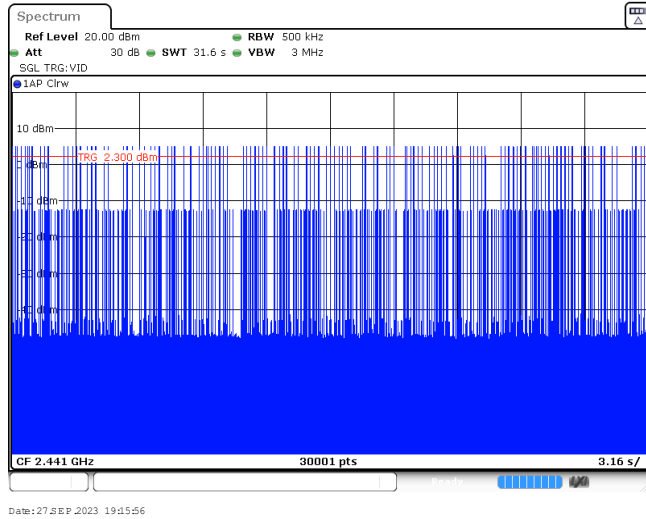


DH5
Burst number

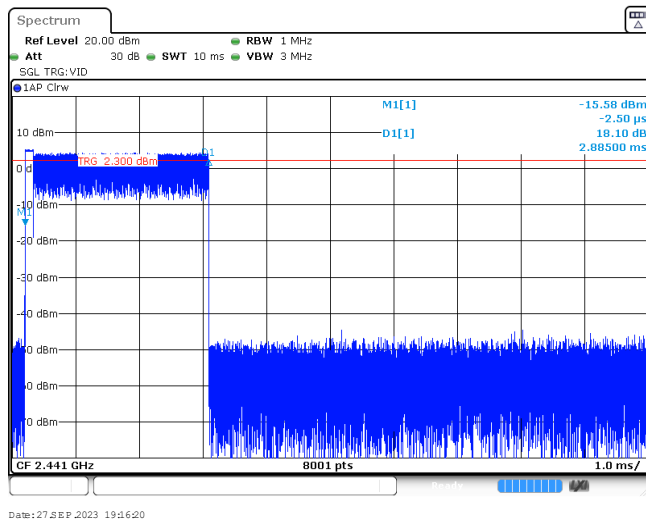


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 27 SEP 2023 19:13:56</p>
2DH1 Burst number	<p>CF 2.441 GHz 30001 pts 3.16 s/</p> <p>Date: 27 SEP 2023 19:14:29</p>
2DH3 Burst width	<p>CF 2.441 GHz 8001 pts 1.0 ms/</p> <p>Date: 27 SEP 2023 19:15:23</p>

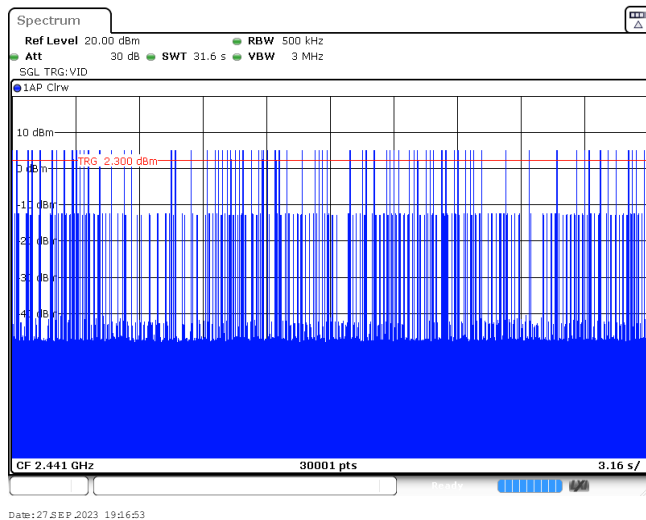
2DH3
Burst number



2DH5
Burst width

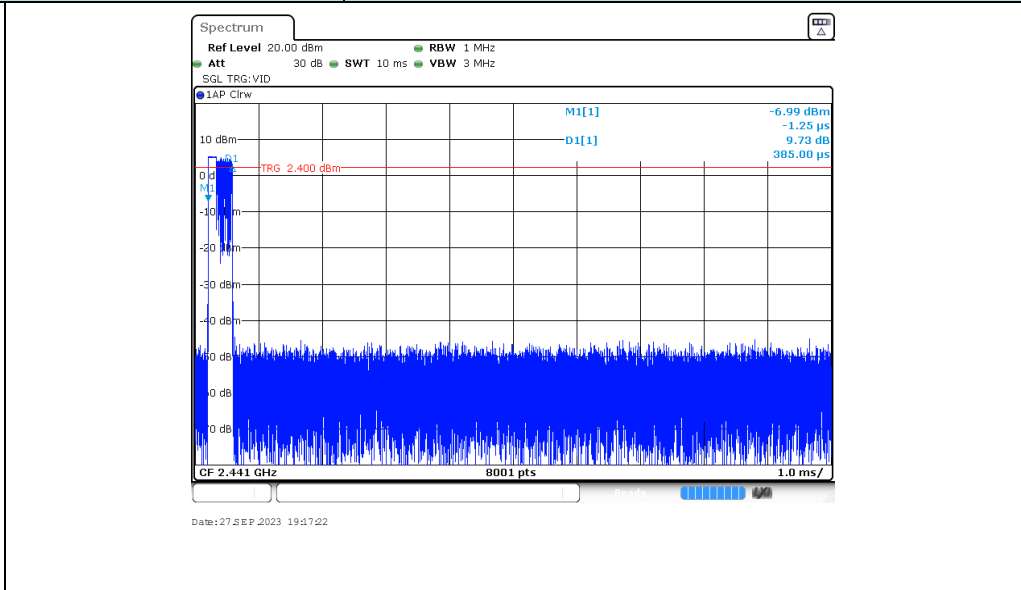


2DH5
Burst number

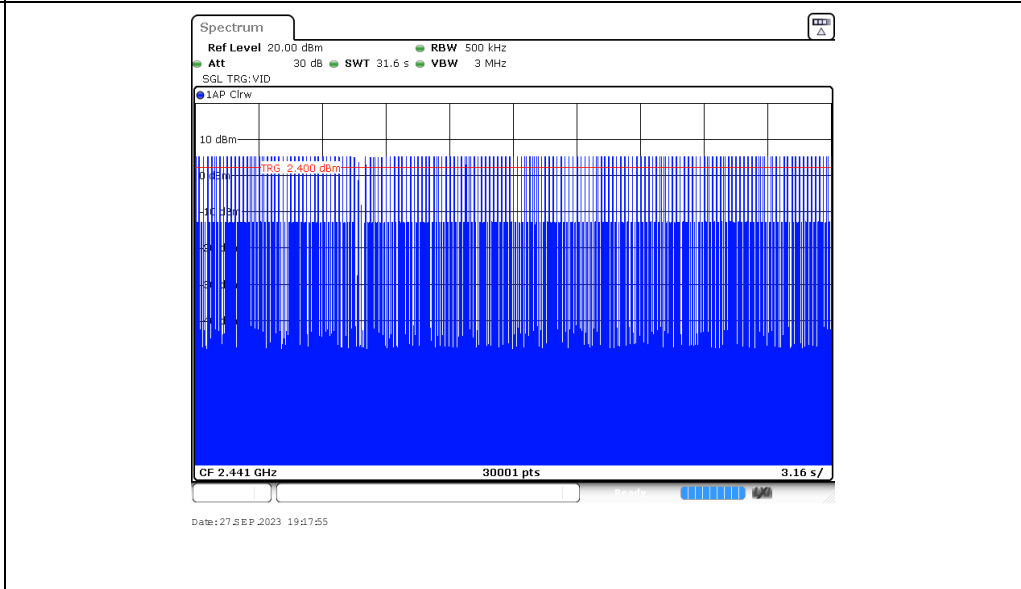


Modulation Type: 8DPSK

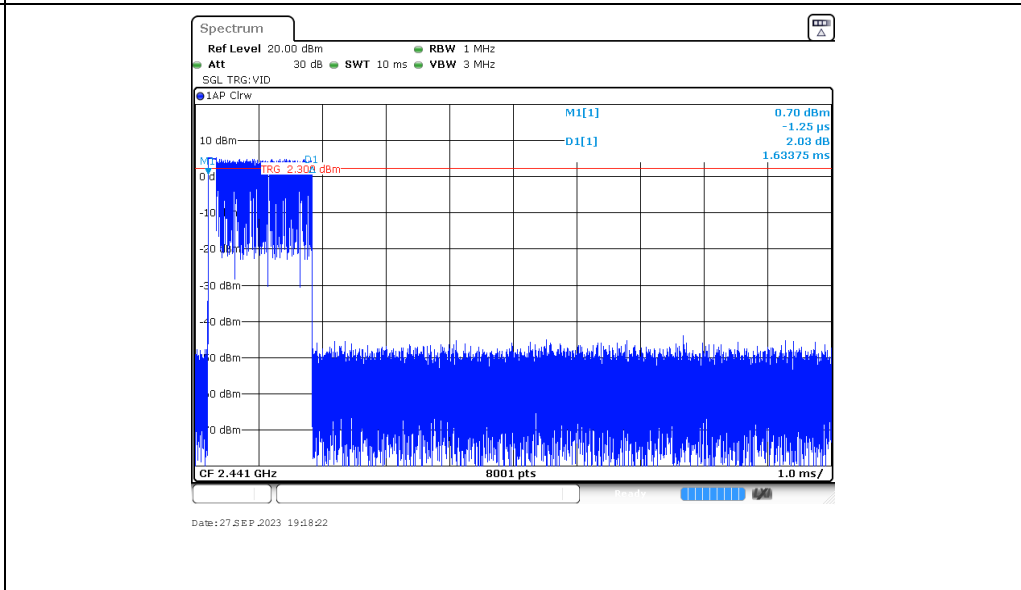
3DH1
Burst width



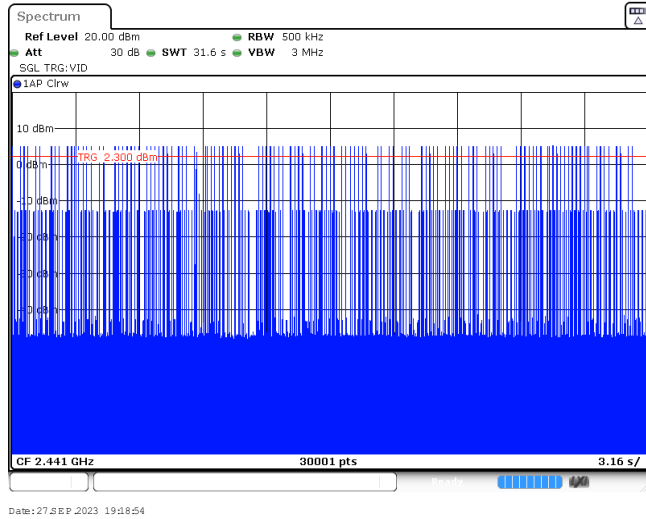
3DH1
Burst number



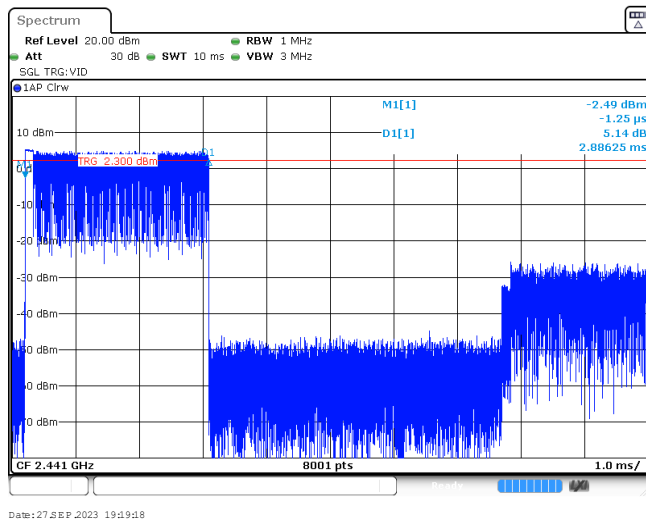
3DH3
Burst width



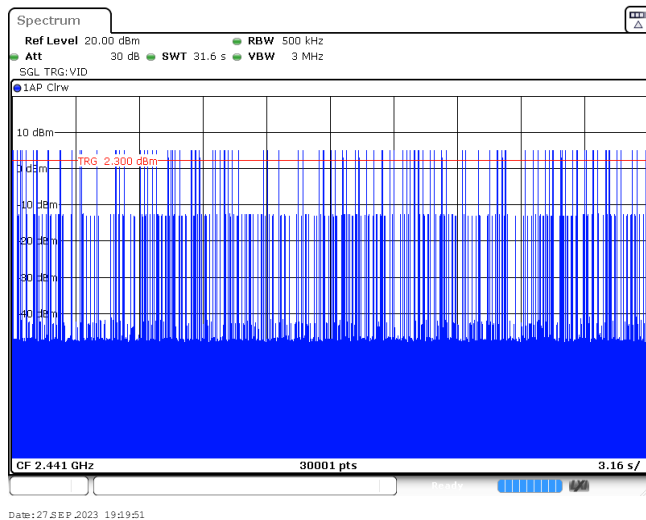
3DH3
Burst number



3DH5
Burst width



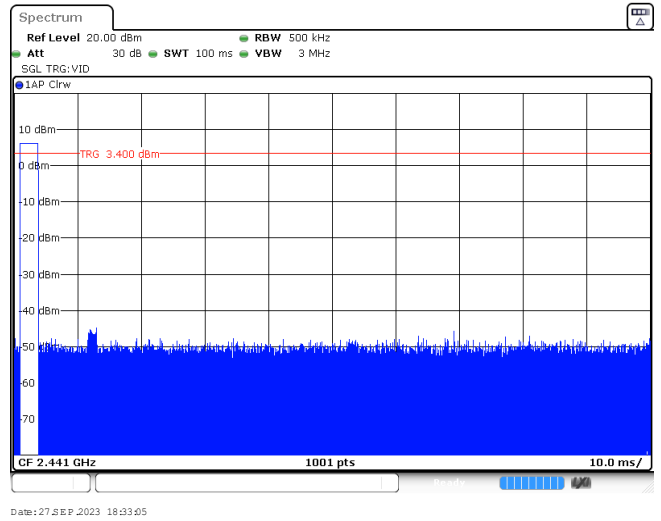
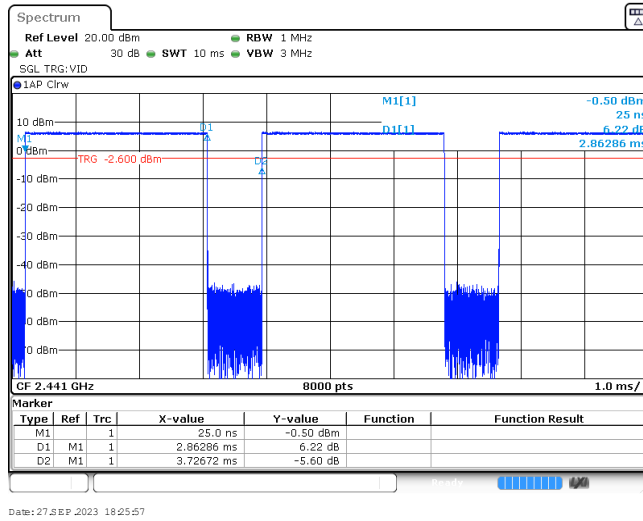
3DH5
Burst number



Appendix G: Duty Cycle Correction Factor (DCCF)

DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log(T _{on time} / T _{period})					
Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	1.00	-30.86
π /4 DQPSK	2441	2.87	100	2.00	-24.83
8DPSK	2441	2.87	100	2.00	-24.83

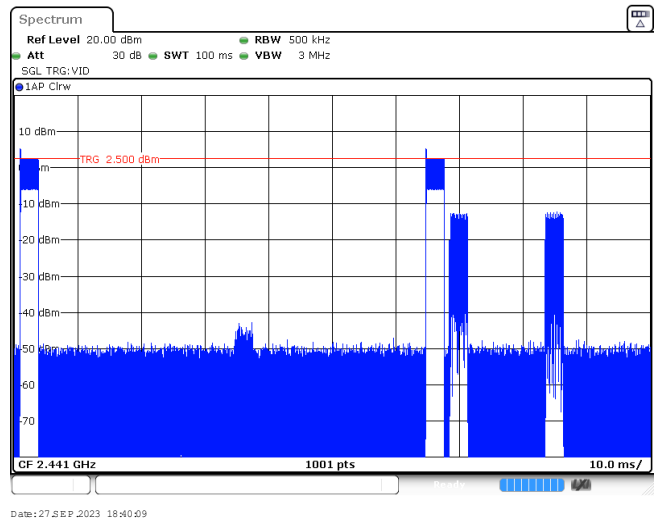
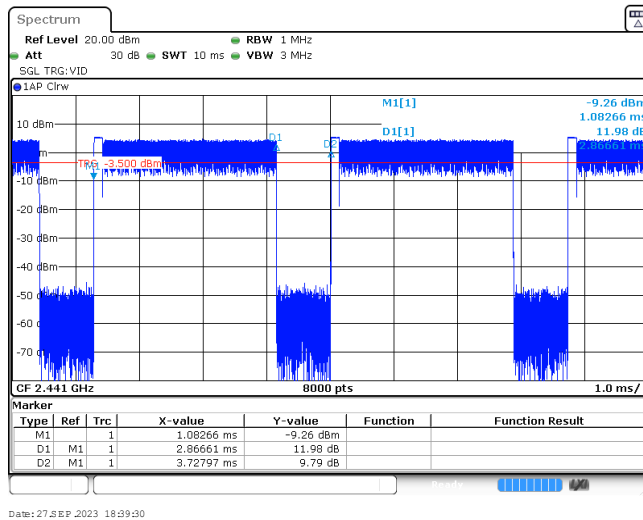
GFSK



Ton time for single burst

Burst Quantity

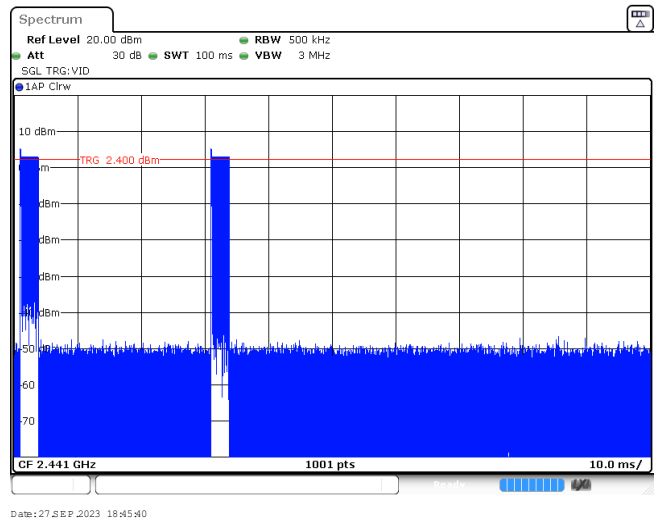
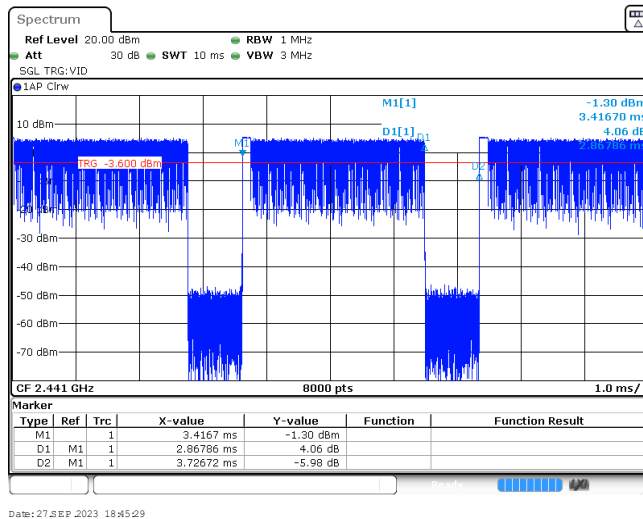
$\pi/4$ DQPSK



Ton time for single burst

Burst Quantity

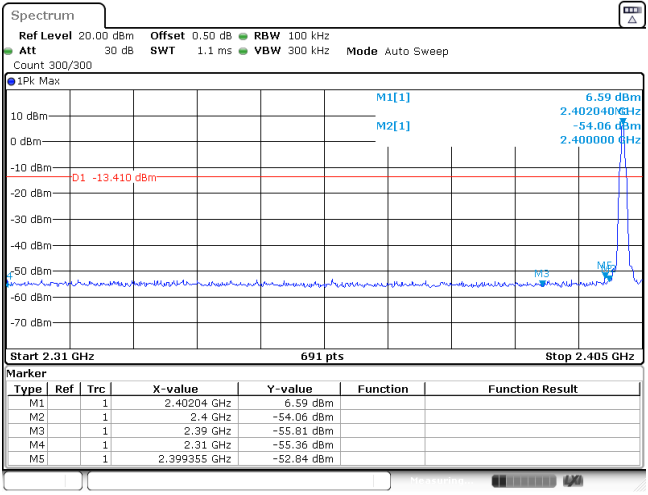
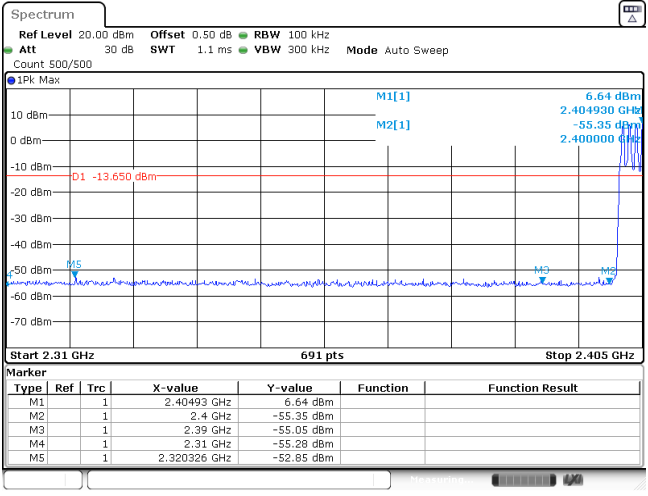
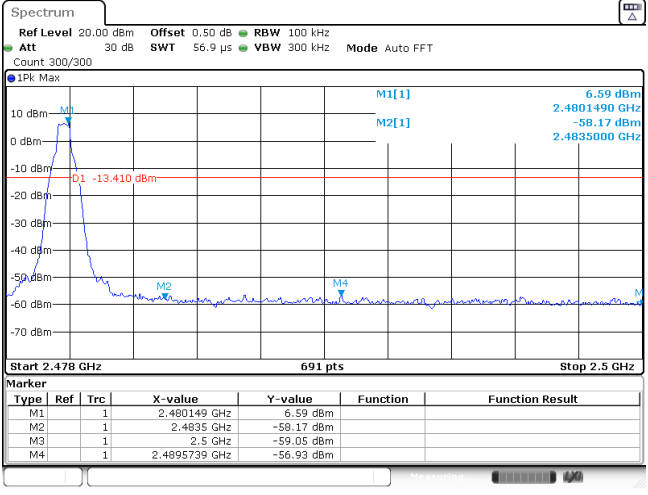
8DPSK



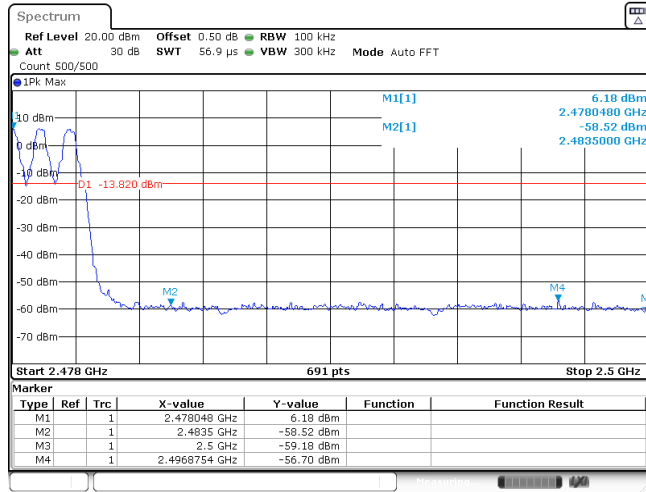
Ton time for single burst

Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <table border="1" data-bbox="687 725 1337 846"> <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>2.40204 GHz</td> <td>6.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-54.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-55.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399355 GHz</td> <td>-52.84 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27 SEP 2023 18:24:23</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40204 GHz	6.59 dBm			M2	1		2.4 GHz	-54.06 dBm			M3	1		2.39 GHz	-55.61 dBm			M4	1		2.31 GHz	-55.36 dBm			M5	1		2.399355 GHz	-52.84 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40204 GHz	6.59 dBm																																									
M2	1		2.4 GHz	-54.06 dBm																																									
M3	1		2.39 GHz	-55.61 dBm																																									
M4	1		2.31 GHz	-55.36 dBm																																									
M5	1		2.399355 GHz	-52.84 dBm																																									
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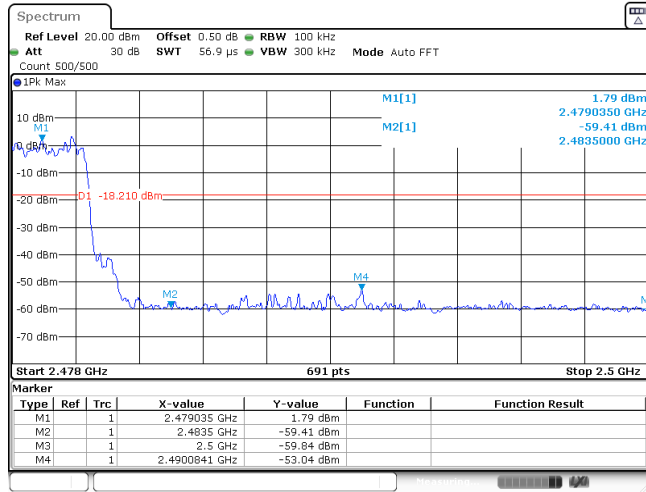
CH78
Hopping mode



Date: 27 SEP 2023 19:04:58

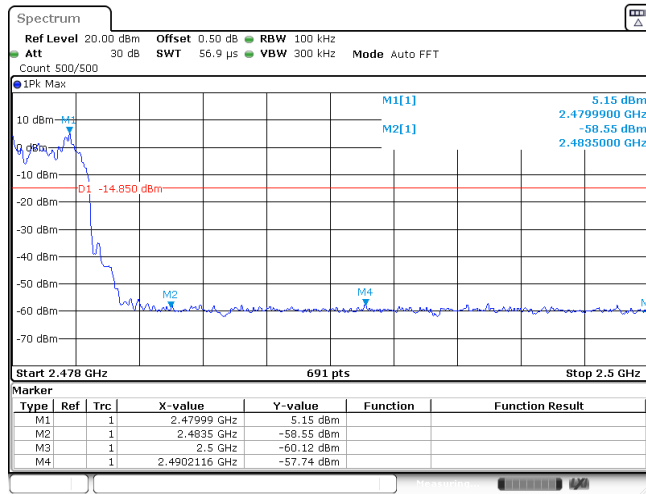
Test Item:	Band edge	Modulation type:	π/4DQPSK																																																
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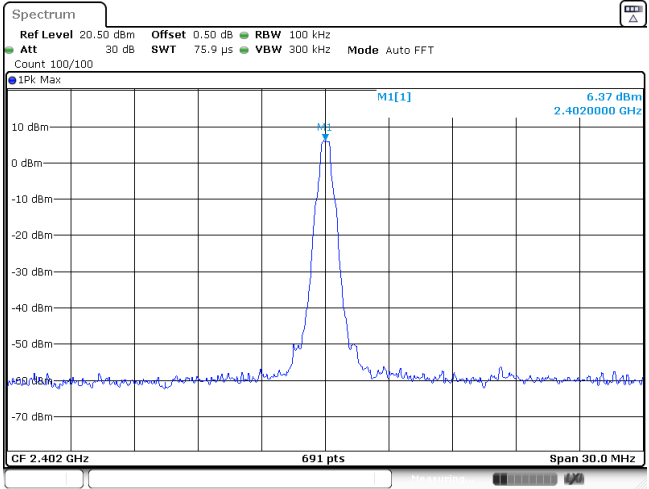
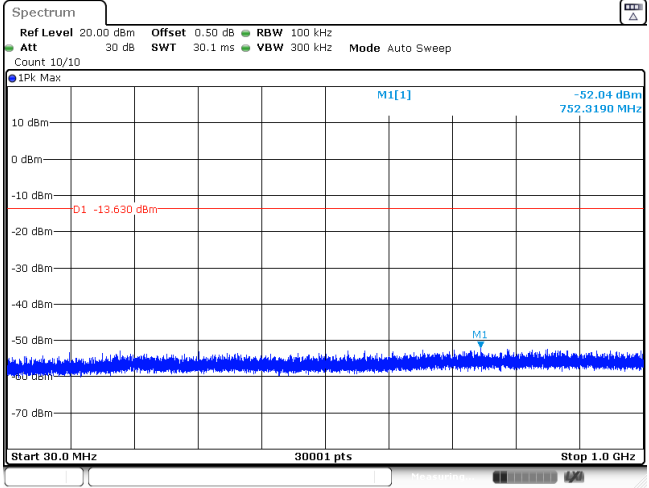
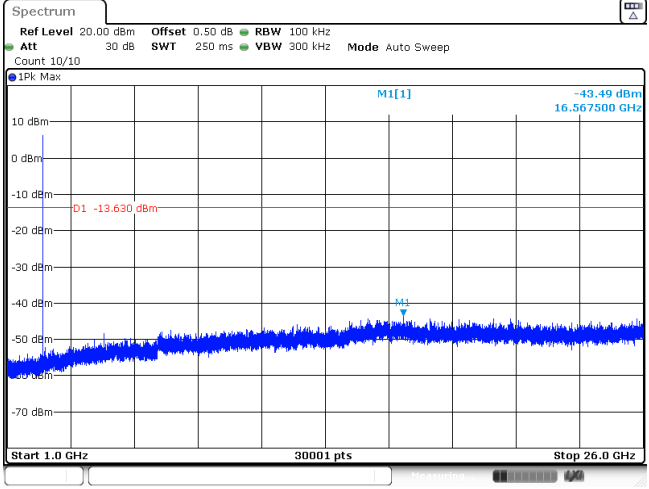
CH78
Hopping mode



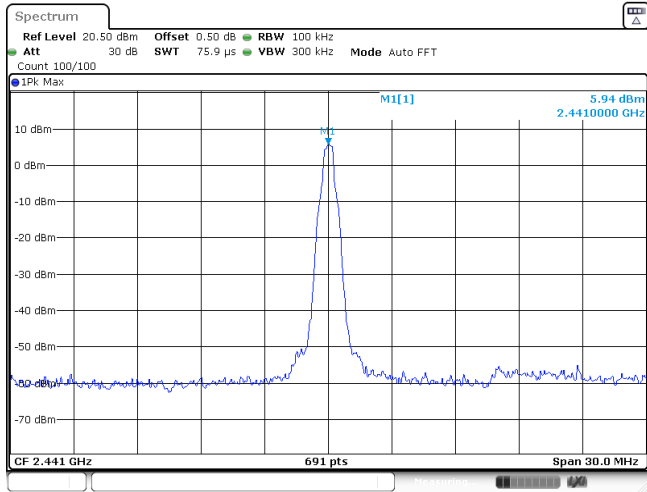
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CH78
Hoppig mode

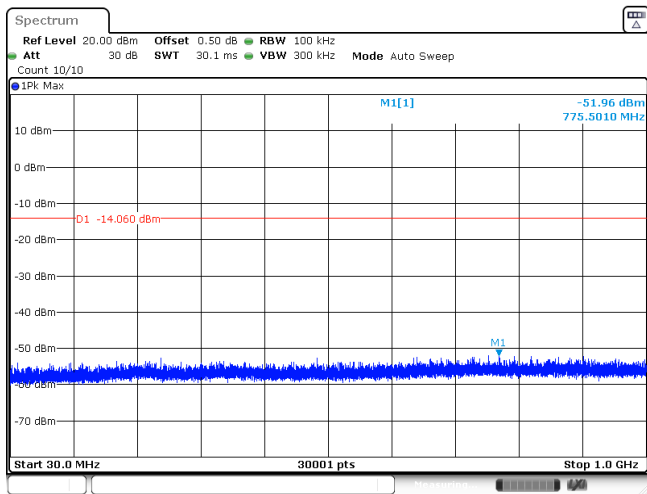


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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 27 SEP 2023 18:24:46</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 27 SEP 2023 18:25:01</p>		

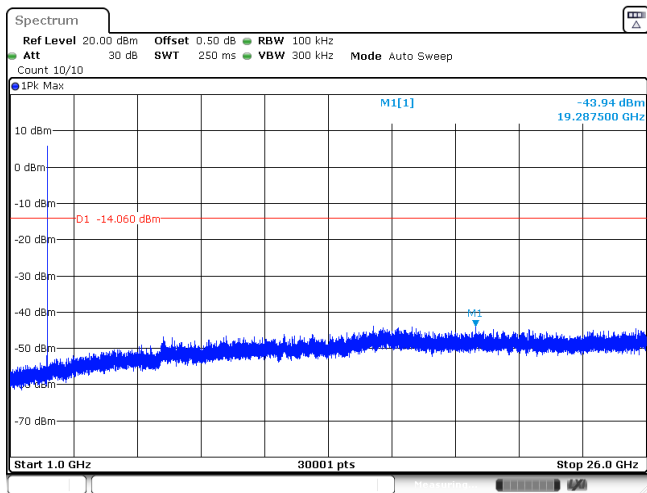
CH39
Reference level



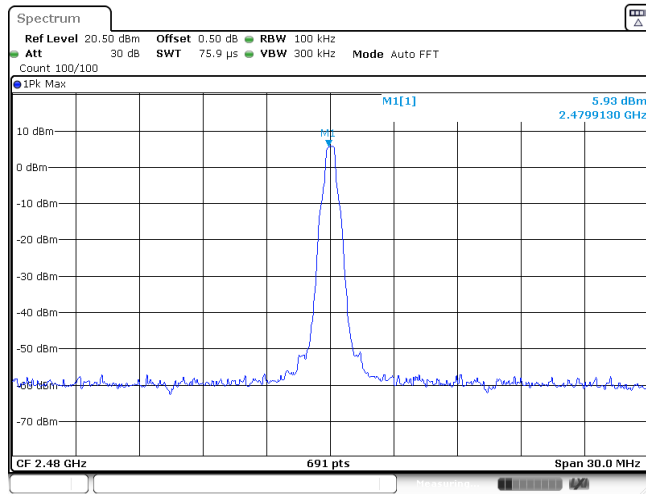
CH39
30MHz~1000MHz



CH39
1GHz~26GHz

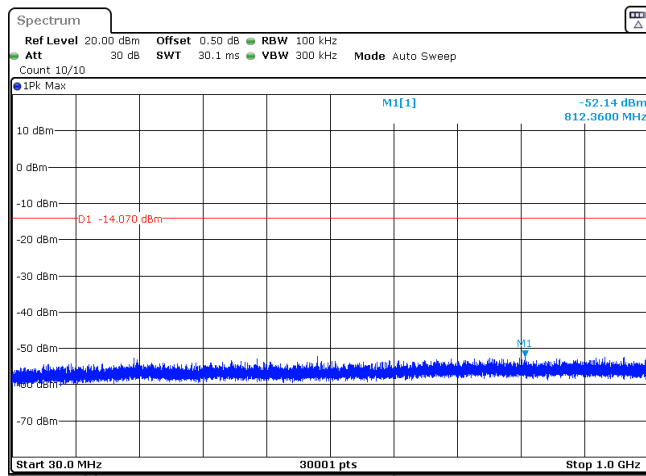


CH78
Reference level



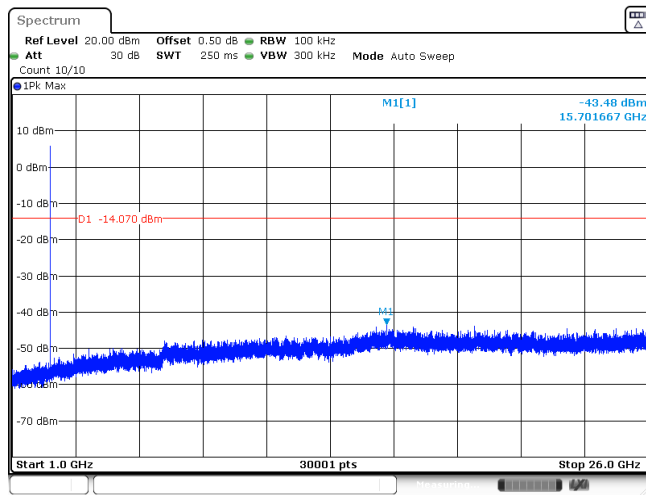
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CH78
30MHz~1000MHz

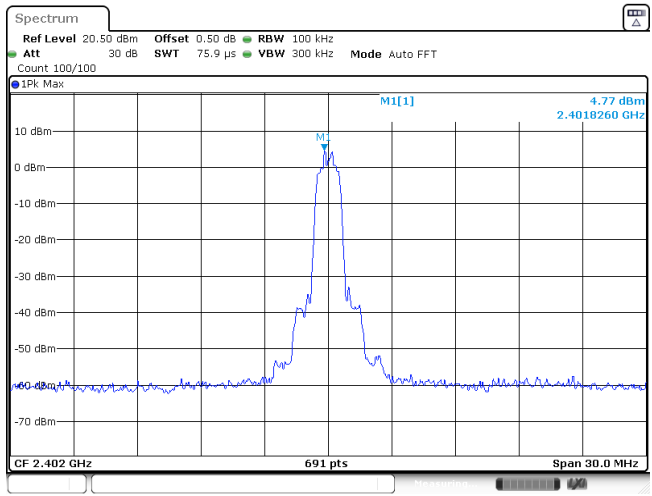
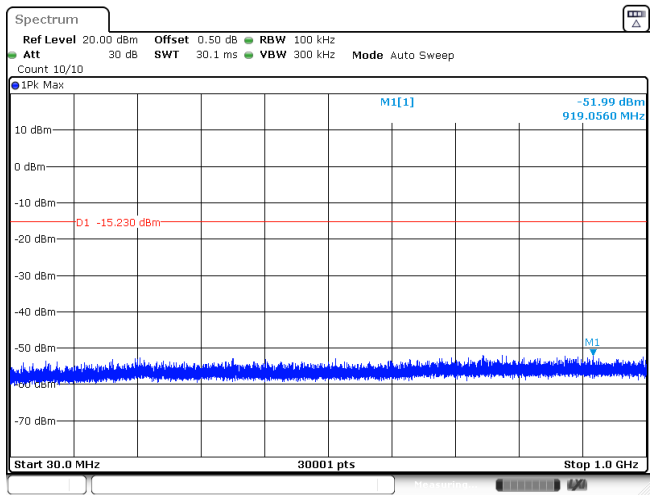
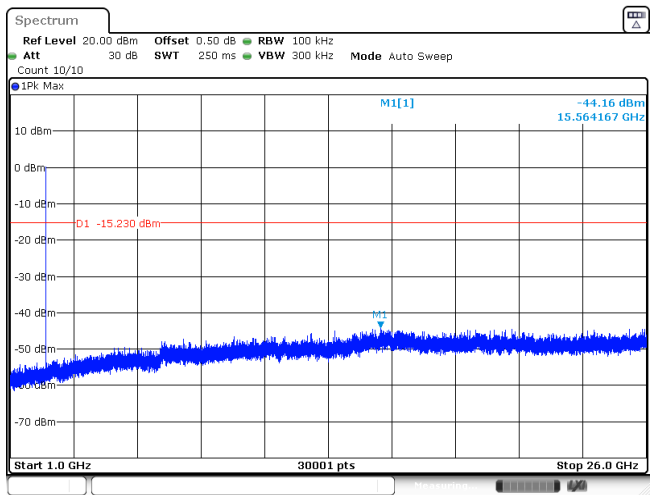


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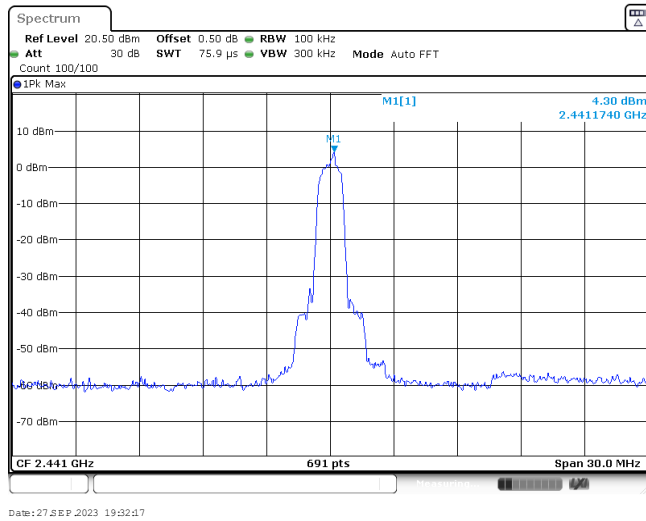
CH78
1GHz~26GHz



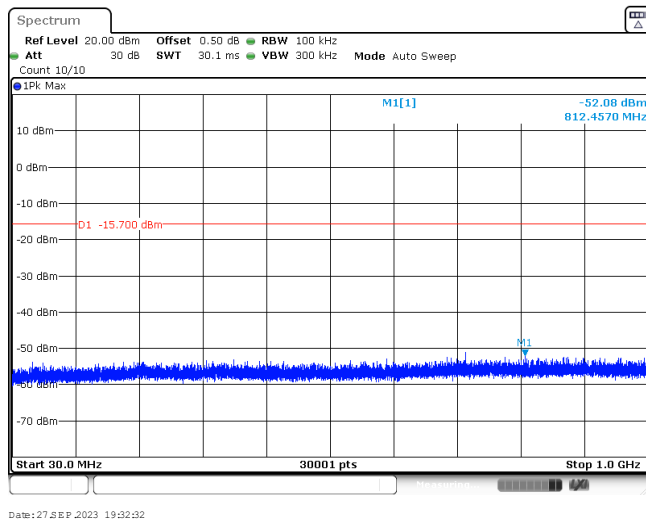
Date: 27 SEP 2023 18:36:00

Test Item:	Spurious Emission	Modulation type:	π/4DQPSK
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<p>CH00 30MHz~1000MHz</p>	 <p>Date: 27 SEP 2023 18:38:20</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 27 SEP 2023 18:38:35</p>		

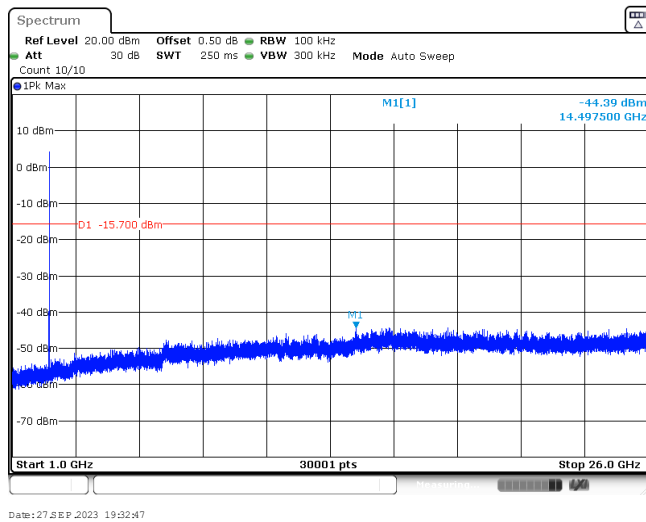
CH39
Reference level



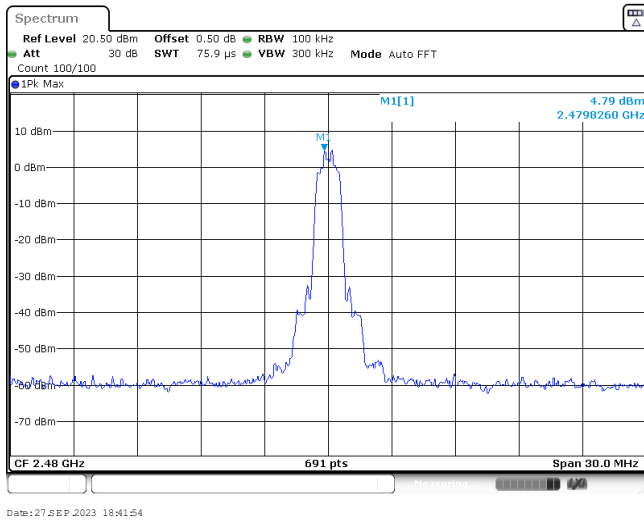
CH39
30MHz~1000MHz



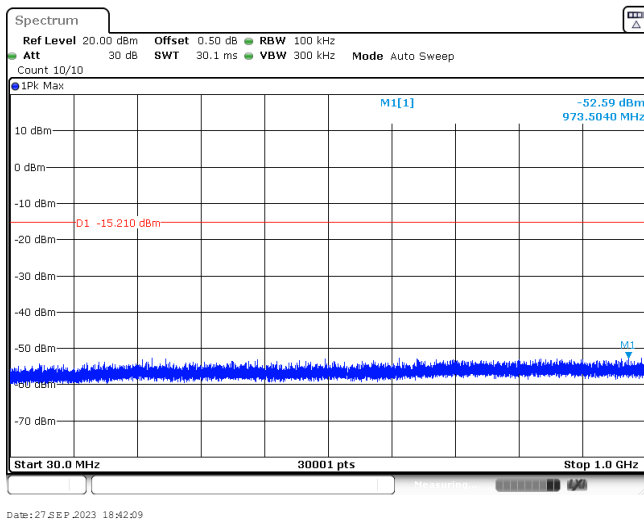
CH39
1GHz~26GHz



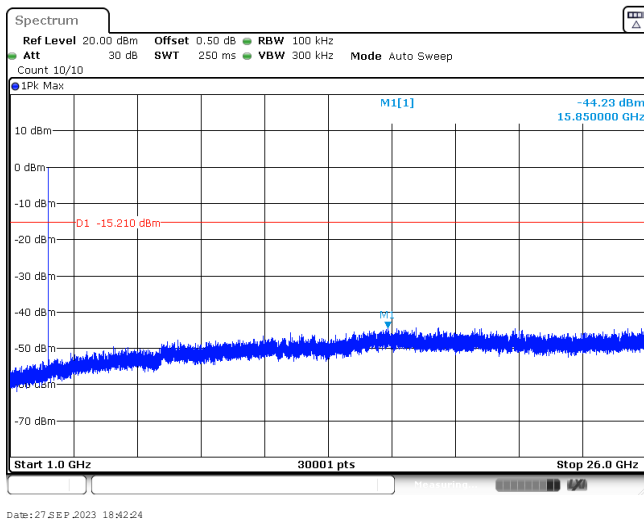
CH78
Reference level

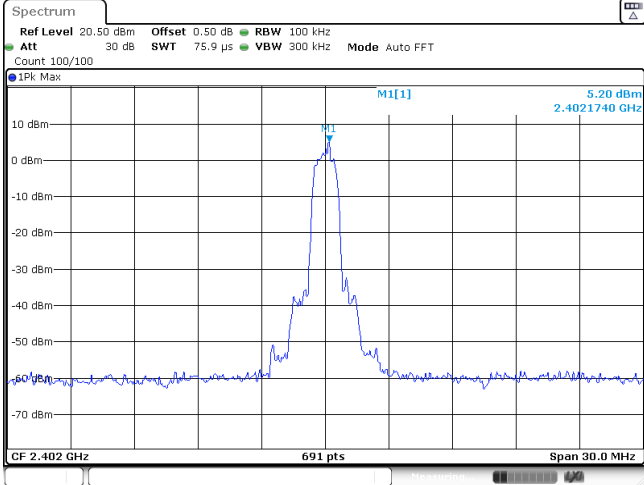
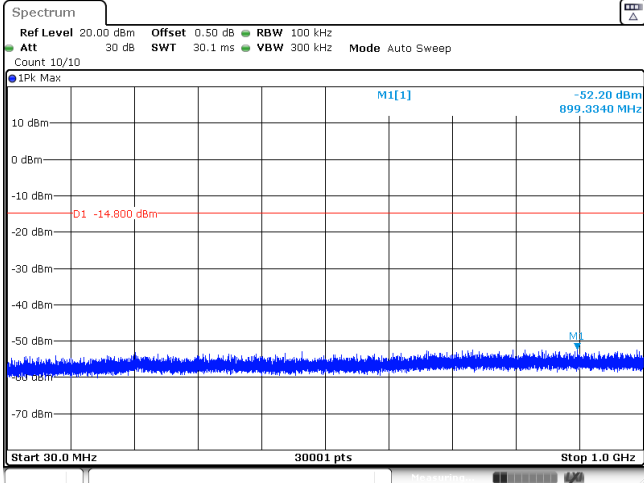
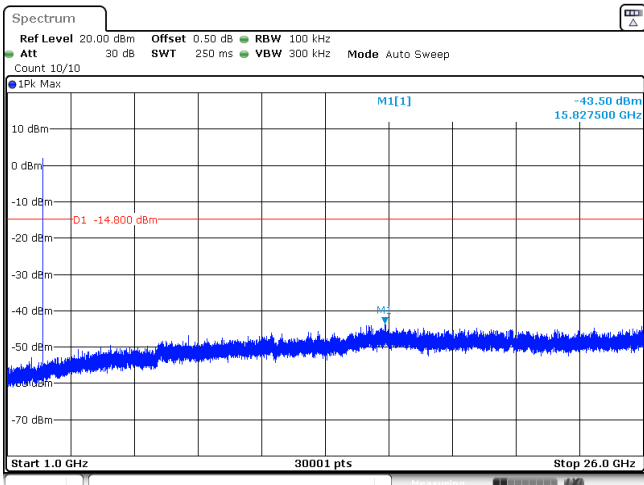


CH78
30MHz~1000MHz

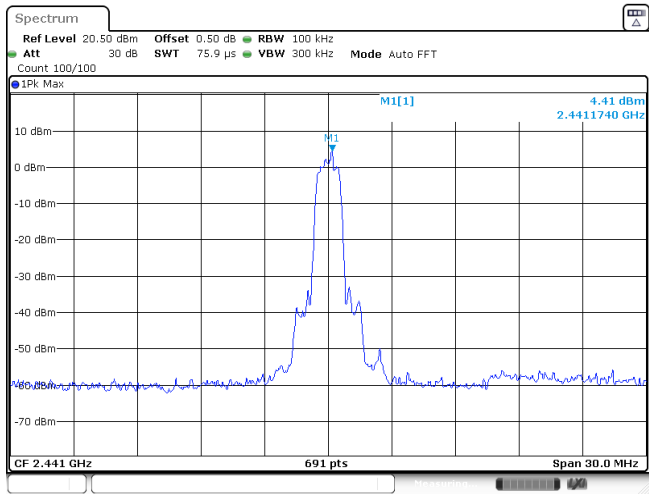


CH78
1GHz~26GHz



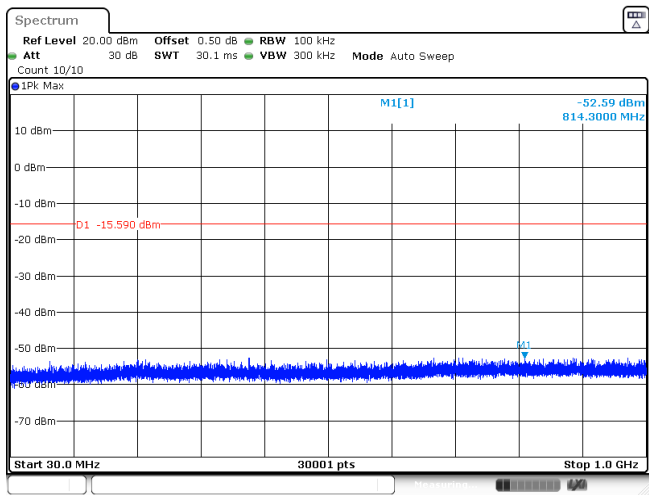
Test Item:	Spurious Emission	Modulation type:	8DPSK
<p>CH00 Reference level</p>	 <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 27 SEP 2023 18:43:42</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 27 SEP 2023 18:43:57</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 27 SEP 2023 18:44:12</p>		

CH39
Reference level



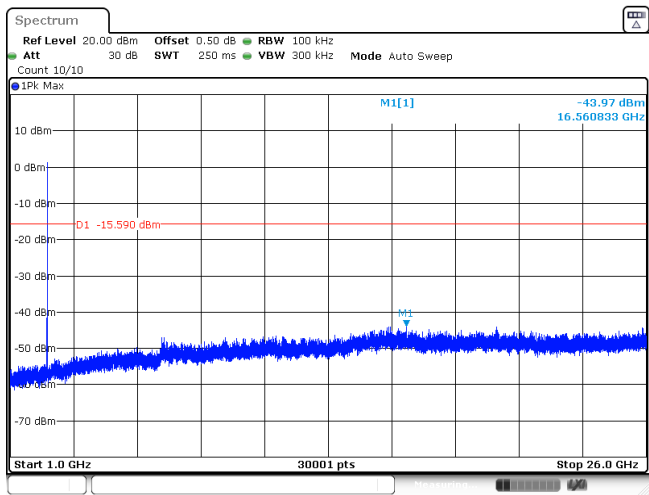
Date: 27 SEP 2023 18:45:57

CH39
30MHz~1000MHz



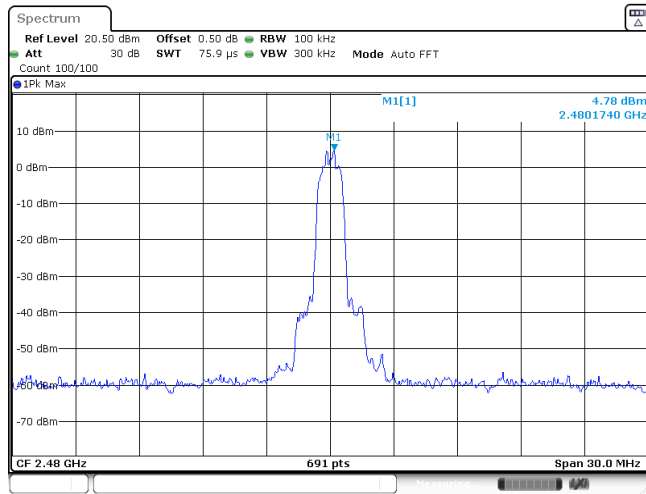
Date: 27 SEP 2023 18:46:12

CH39
1GHz~26GHz



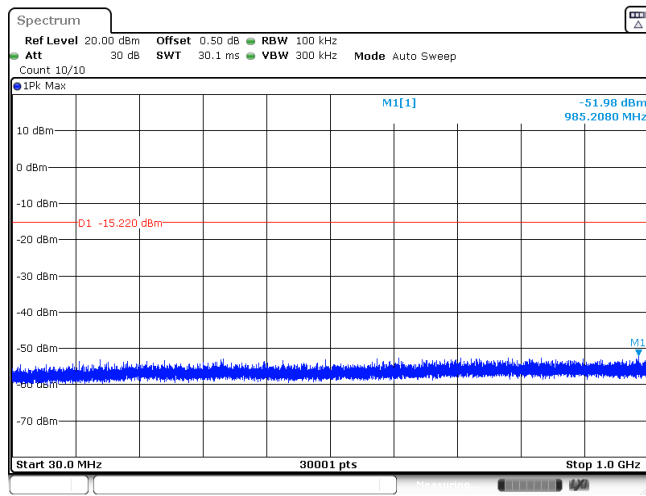
Date: 27 SEP 2023 18:46:27

CH78
Reference level



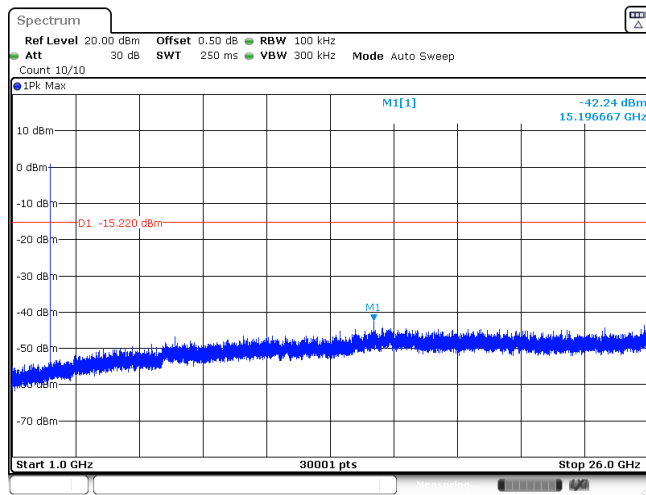
Date: 27 SEP 2023 18:47:35

CH78
30MHz~1000MHz



Date: 27 SEP 2023 18:47:50

CH78
1GHz~26GHz



Date: 27 SEP 2023 18:48:06

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