

APPENDIX REPORT

Project No.	SHT2006062904EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20060629002	Model No.	T350
Start test date	2020/06/29	Finish date	2020/07/03
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	Auditor	<i>William.wang</i>

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

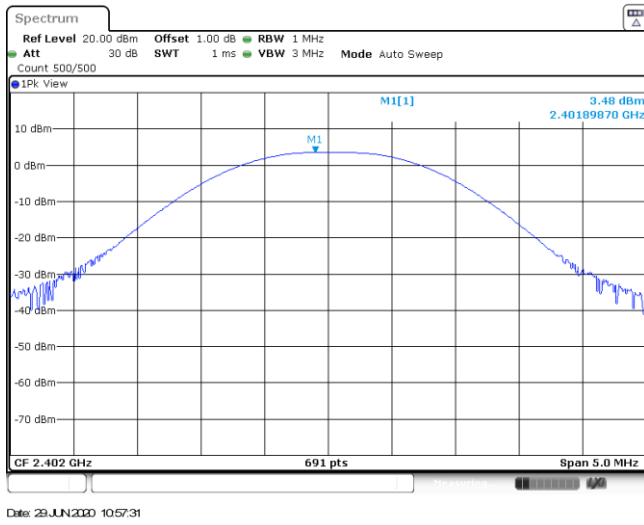
Appendix A: Peak Output Power

Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	3.48	2.80	≤ 30.00	Pass
	39	3.47	2.66		
	78	3.44	2.71		
$\pi/4$ DQPSK	00	3.46	1.65	≤ 21.00	Pass
	39	3.45	1.79		
	78	3.41	2.16		
8DPSK	00	3.54	1.56	≤ 21.00	Pass
	39	3.78	1.65		
	78	3.74	1.58		

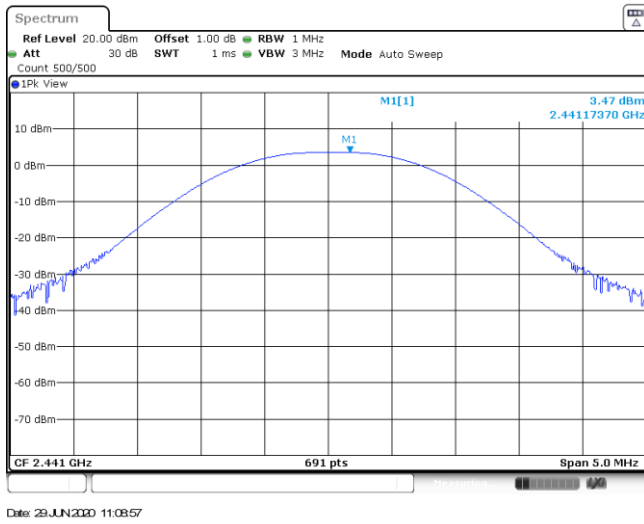
Modulation Type:

GFSK

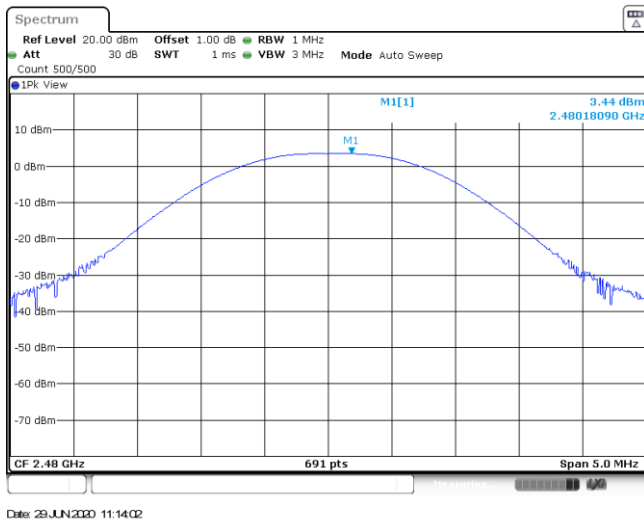
CH00



CH39



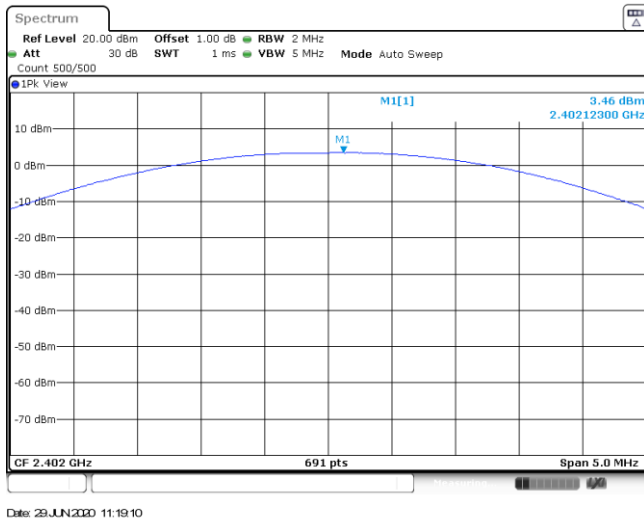
CH78



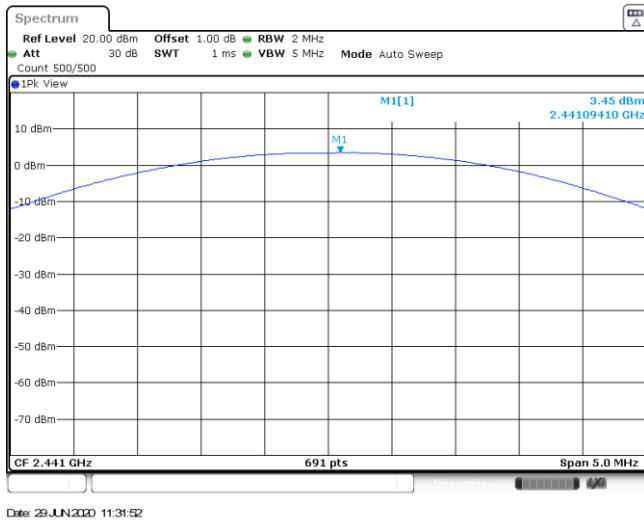
Modulation Type:

$\pi/4$ DQPSK

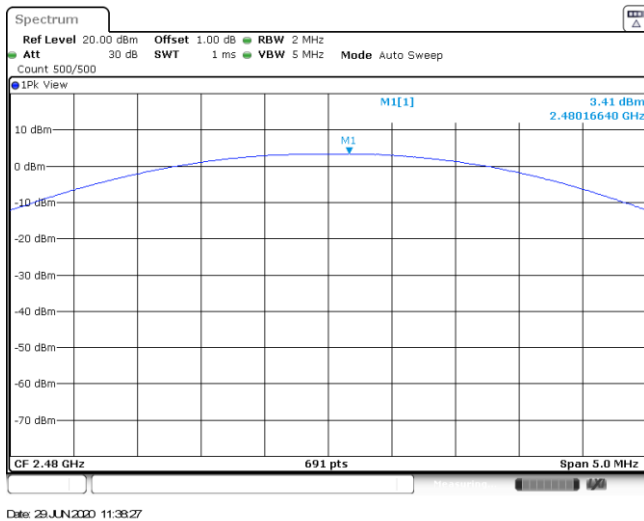
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CH39



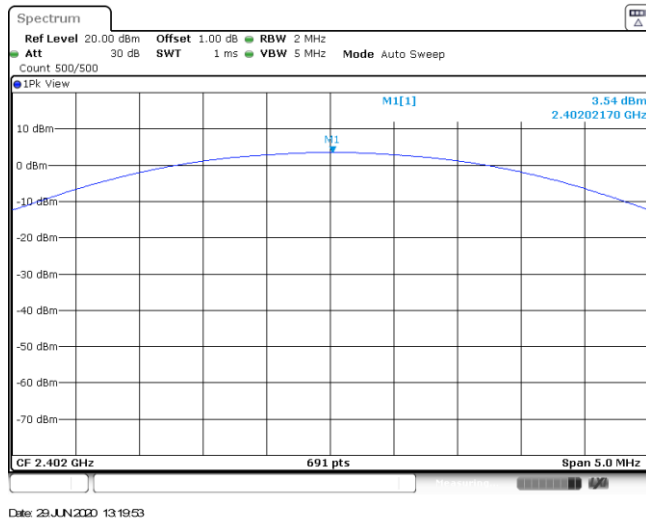
CH78



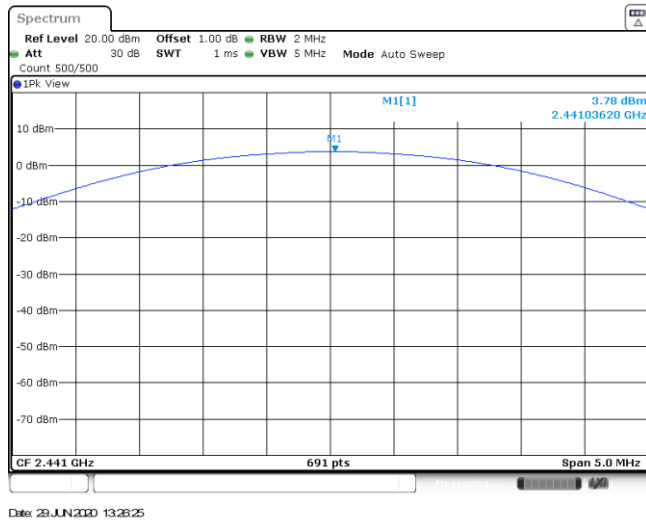
Modulation Type:

8DPSK

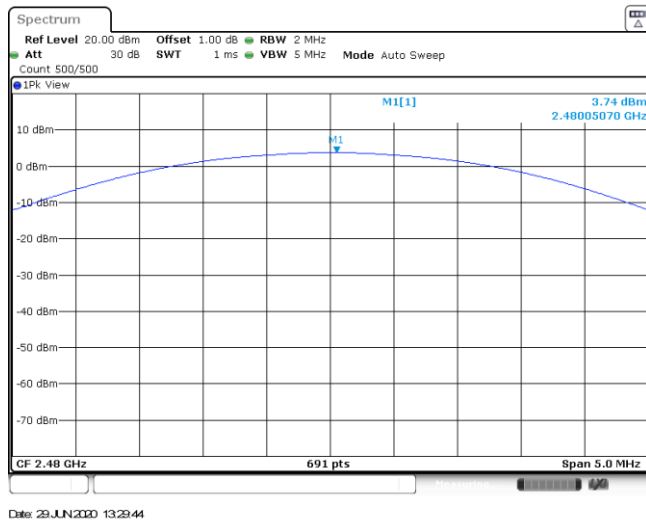
CH00



CH39



CH78

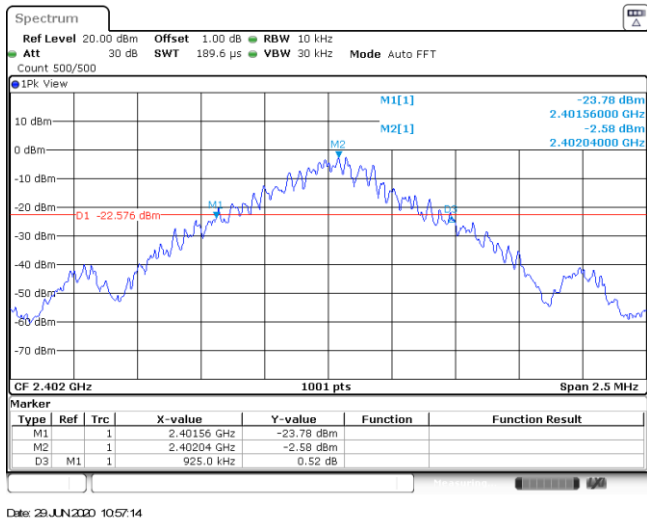


Appendix B : 20 dB Bandwidth

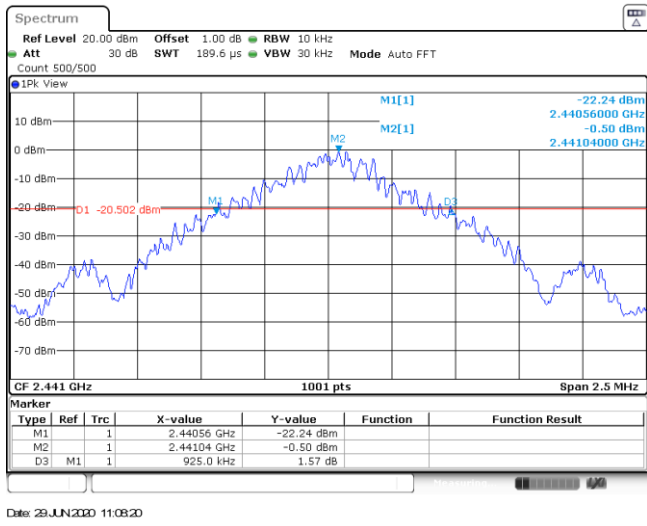
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	925.00		
	78	925.00		
$\pi/4$ DQPSK	00	1282.50	-	Pass
	39	1280.00		
	78	1280.00		
8DPSK	00	1282.50	-	Pass
	39	1282.50		
	78	1282.50		

Modulation Type: GFSK

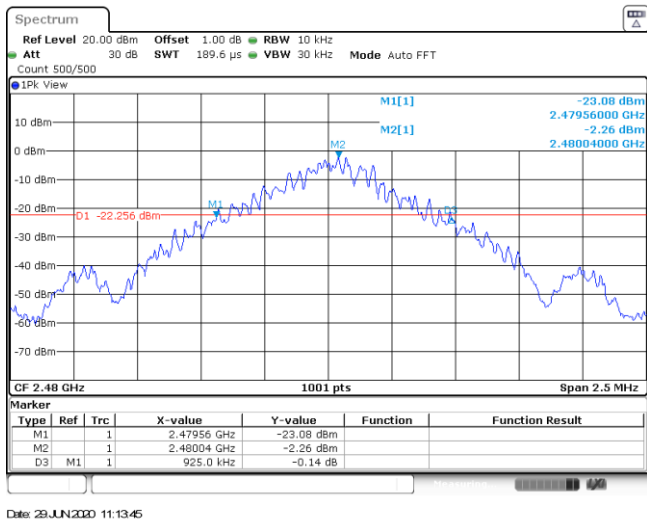
CH00



CH39

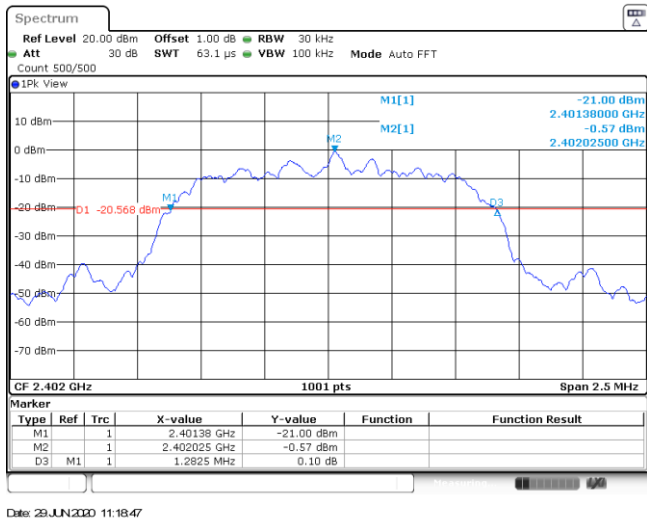


CH78



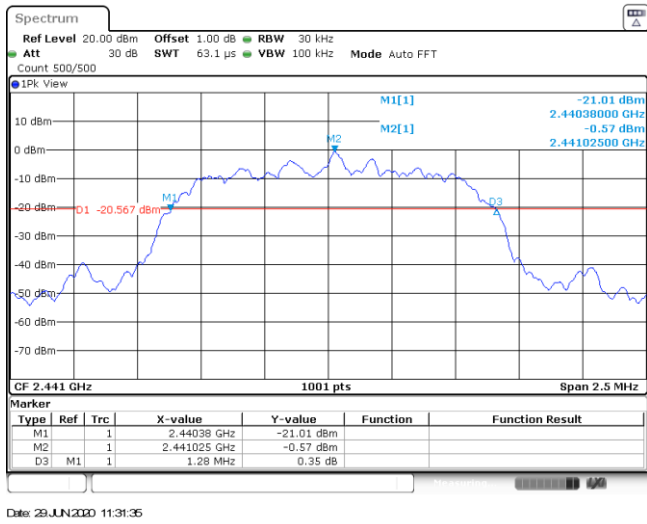
Modulation Type: **$\pi/4$ DQPSK**

CH00



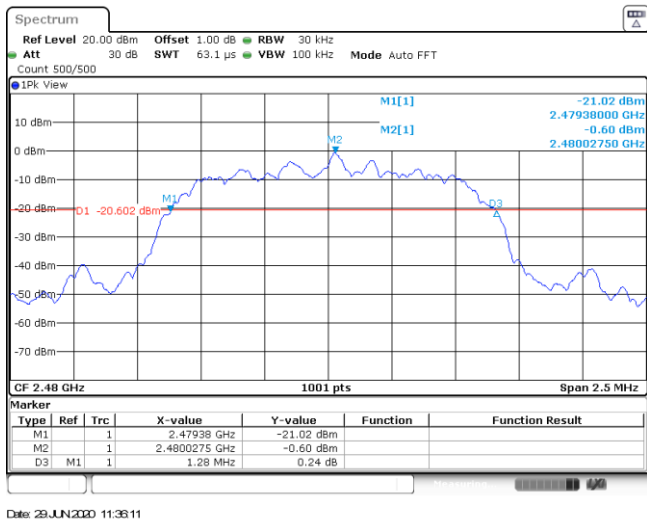
Date: 29 JUN 2020 11:18:47

CH39



Date: 29 JUN 2020 11:31:35

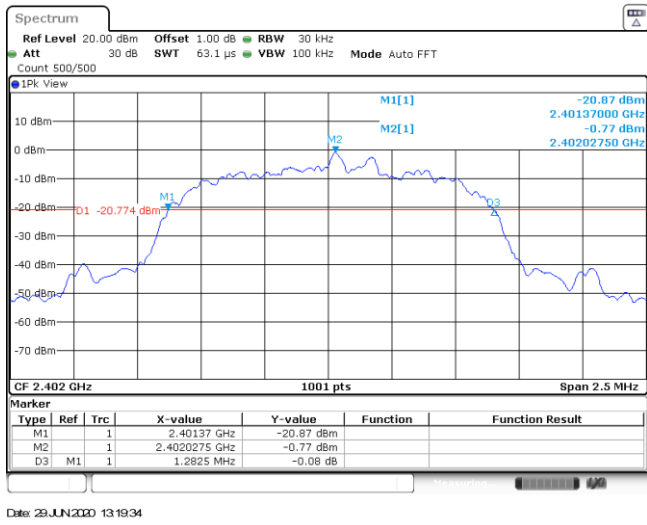
CH78



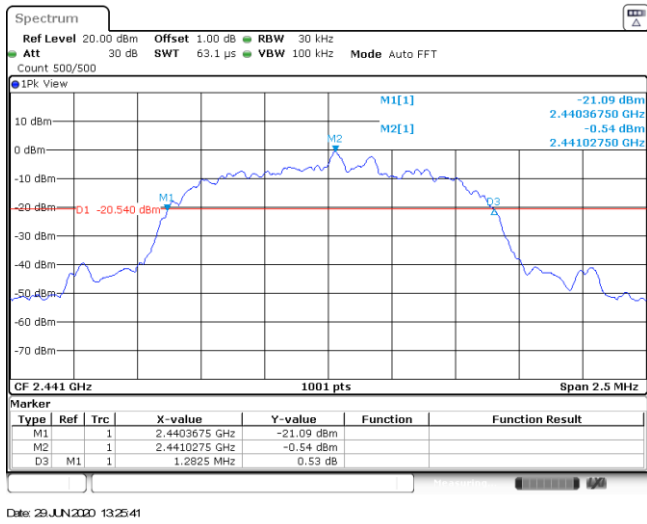
Date: 29 JUN 2020 11:36:11

Modulation Type: 8DPSK

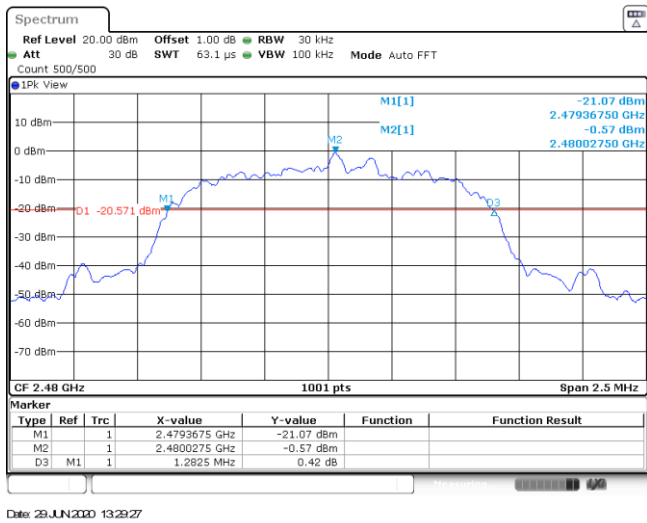
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

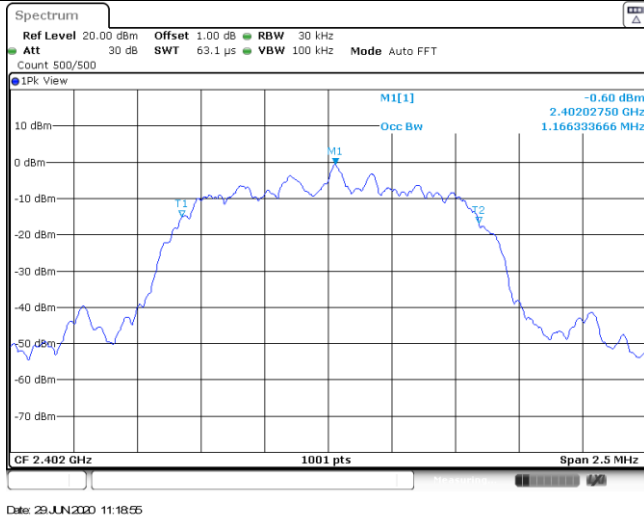
Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.90	-	Pass
	39	0.90		
	78	0.90		
$\pi/4$ DQPSK	00	1.17	-	Pass
	39	1.17		
	78	1.17		
8DPSK	00	1.17	-	Pass
	39	1.17		
	78	1.17		

Modulation Type: GFSK	
CH00	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT Count 500/500</p> <p>1Pk View</p> <p>M1[1] 1.37 dBm 2.40202750 GHz Occ Bw 896.603396604 kHz</p> <p>T1 T2</p> <p>CF 2.402 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 29 JUN 2020 10:57:22</p>
CH39	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT Count 500/500</p> <p>1Pk View</p> <p>M1[1] 1.38 dBm 2.44102750 GHz Occ Bw 896.603396603 kHz</p> <p>T1 T2</p> <p>CF 2.441 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 29 JUN 2020 11:08:40</p>
CH78	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT Count 500/500</p> <p>1Pk View</p> <p>M1[1] 1.35 dBm 2.48002750 GHz Occ Bw 896.603396604 kHz</p> <p>T1 T2</p> <p>CF 2.48 GHz 1001 pts Span 2.5 MHz</p> <p>Date: 29 JUN 2020 11:13:53</p>

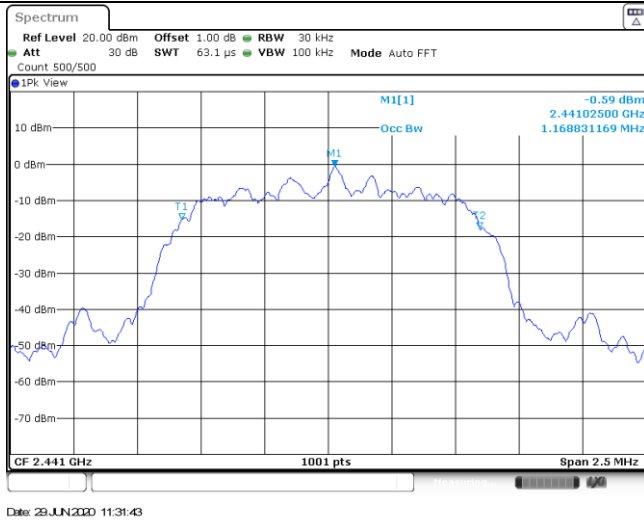
Modulation Type:

$\pi/4$ DQPSK

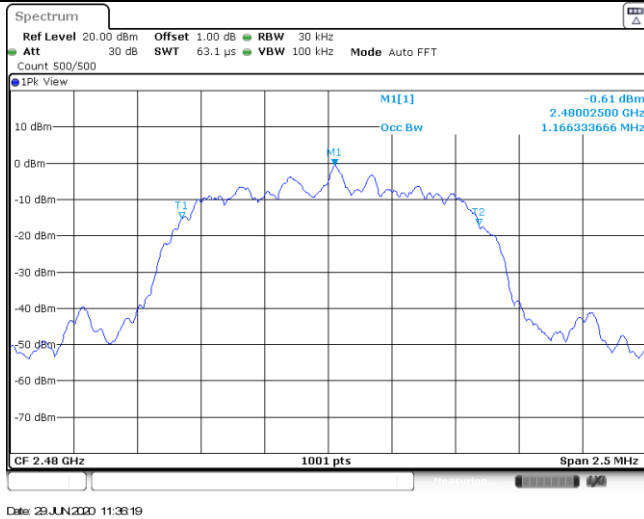
CH00



CH39

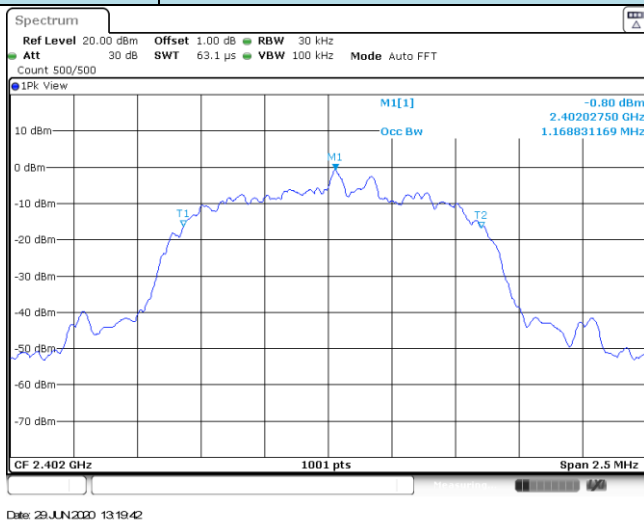


CH78

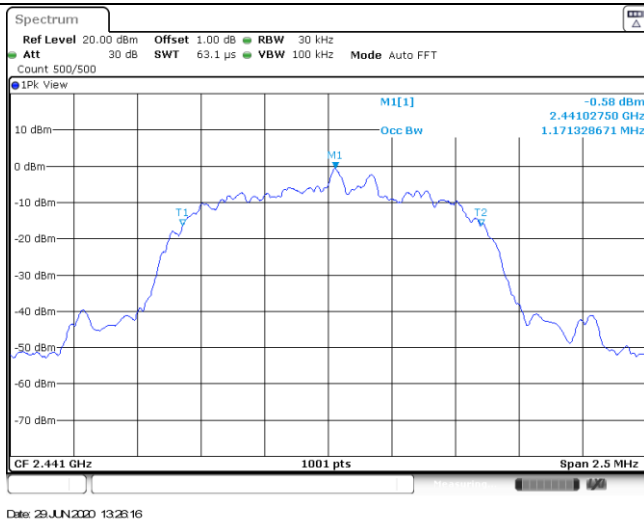


Modulation Type: 8DPSK

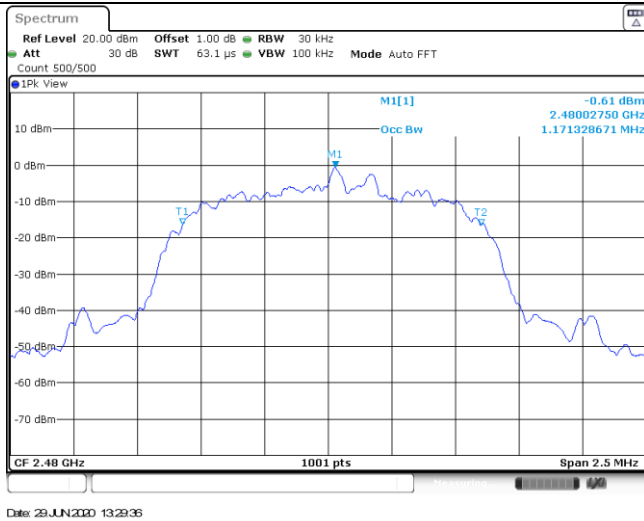
CH00



CH39



CH78



Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥925	Pass
π/4DQPSK	39	1.00	≥855	Pass
8DPSK	39	1.00	≥855	Pass

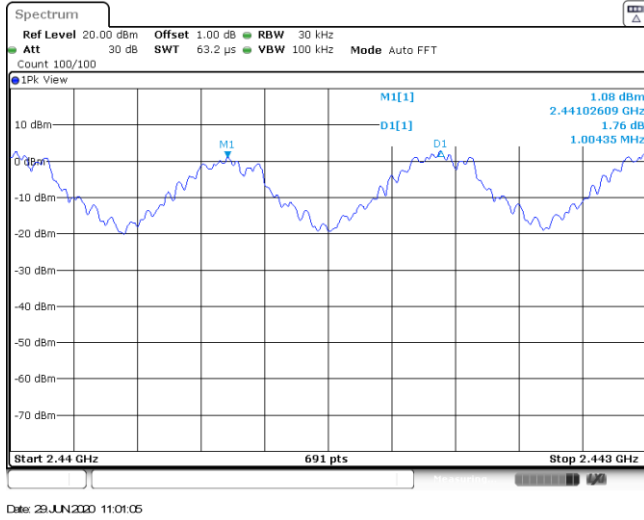
Note:

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

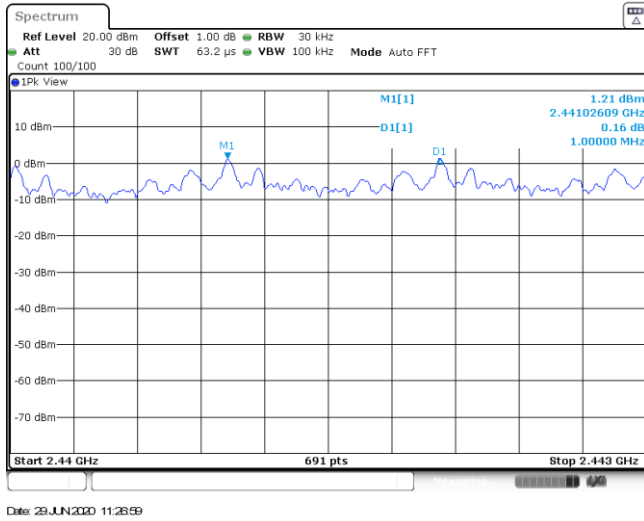
π/4DQPSK limit = 2/3 * The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

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

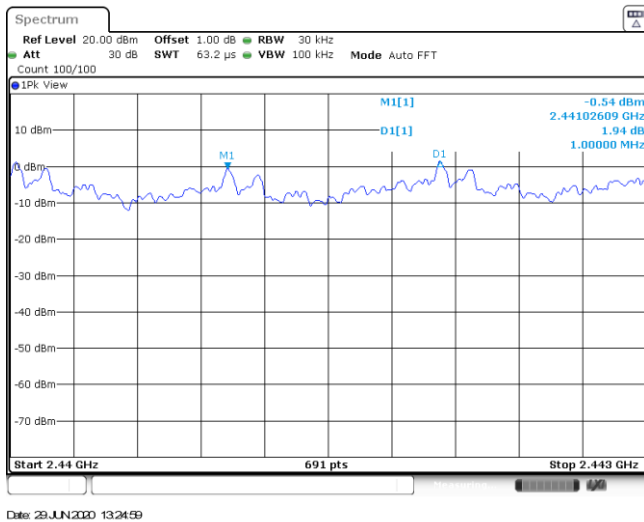
GFSK



$\pi/4$ DQPSK



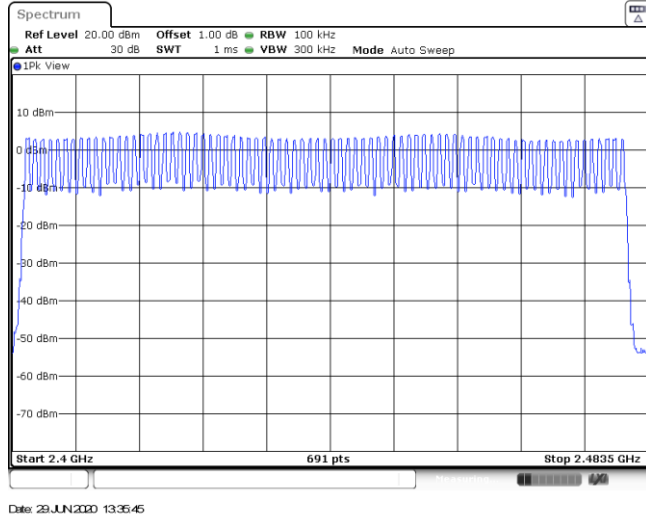
8DPSK



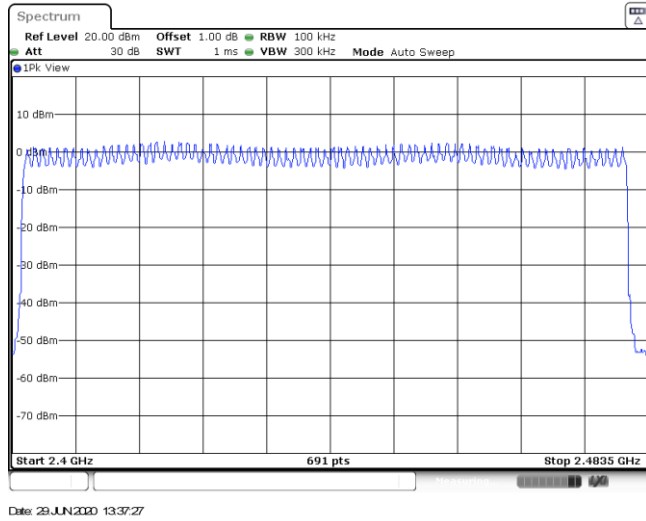
Appendix E: Hopping Channel Number

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

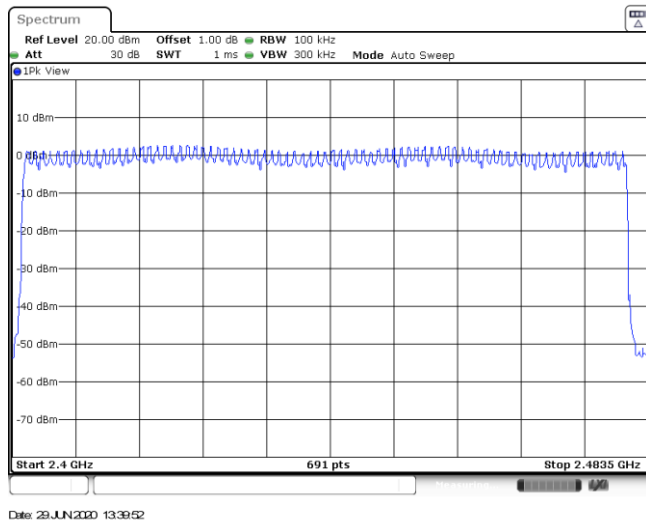
GFSK



$\pi/4$ DQPSK



8DPSK

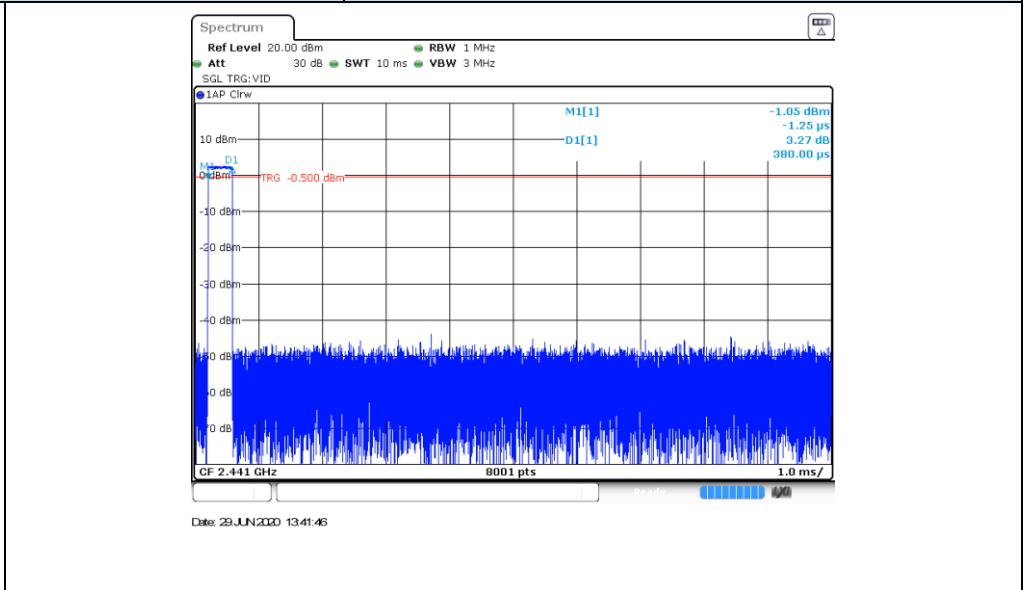


Appendix F: Dwell Time

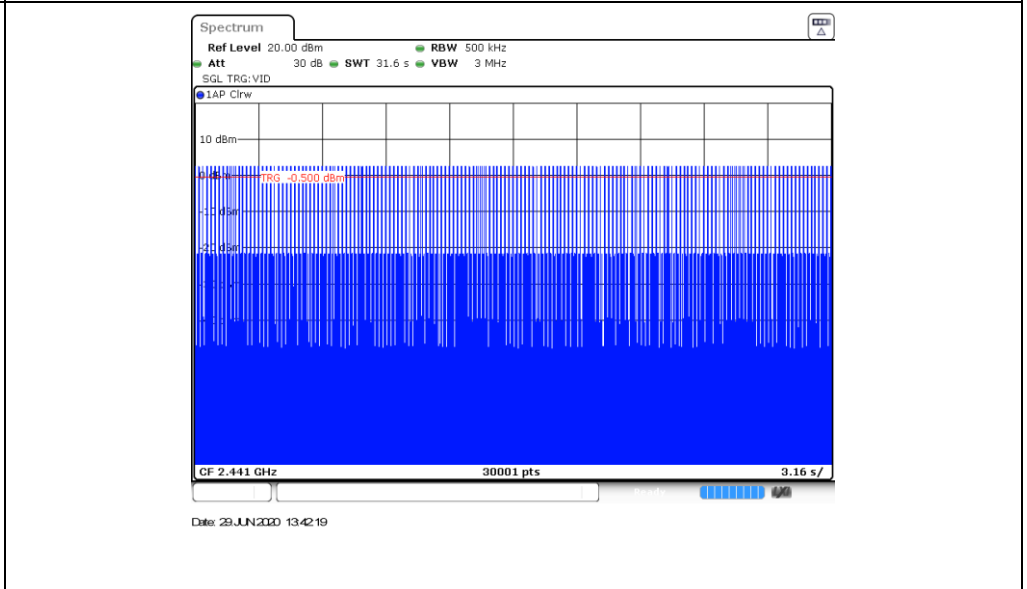
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	315.00	0.12	≤ 0.40	Pass
	DH3	1.64	155.00	0.25		
	DH5	2.89	111.00	0.32		
π/4DQPSK	2DH1	0.39	319.00	0.12	≤ 0.40	Pass
	2DH3	1.64	154.00	0.25		
	2DH5	2.89	100.00	0.29		
8DPSK	3DH1	0.39	320.00	0.12	≤ 0.40	Pass
	3DH3	1.64	151.00	0.25		
	3DH5	2.89	120.00	0.35		

Modulation Type: GFSK

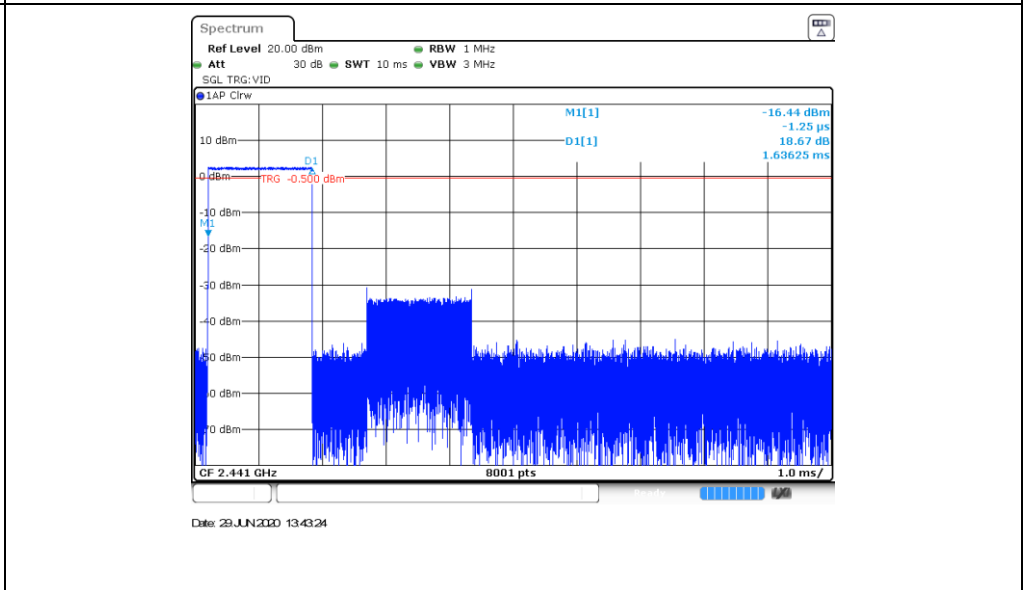
DH1
Burst width



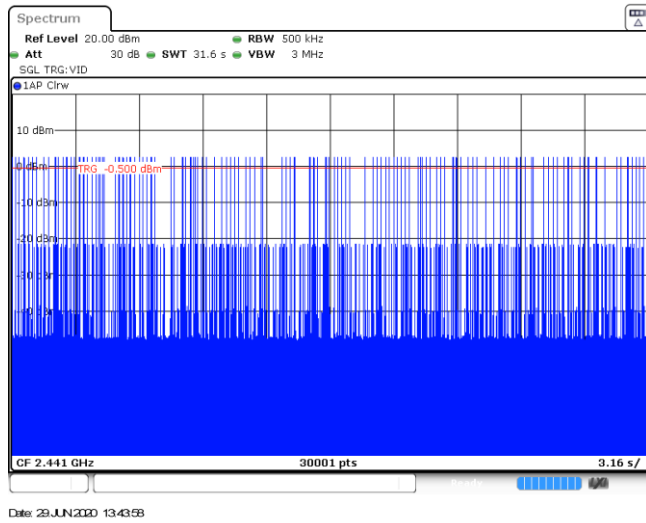
DH1
Burst number



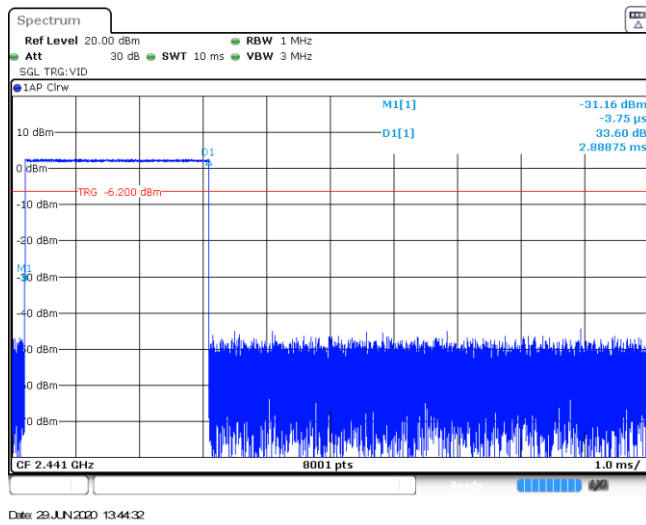
DH3
Burst width



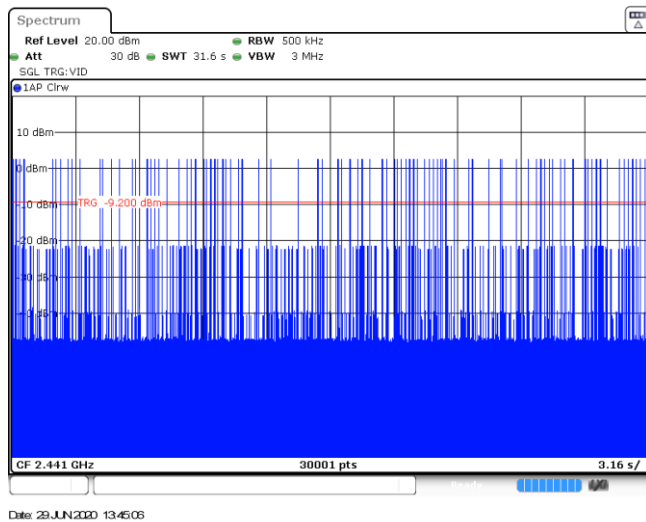
DH3
Burst number



DH5
Burst width



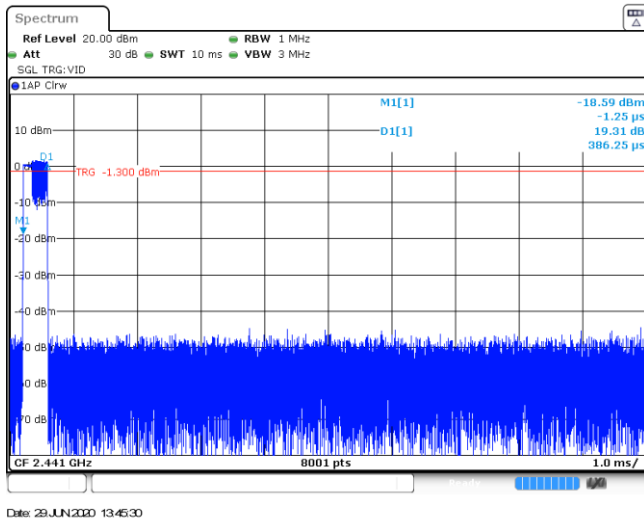
DH5
Burst number



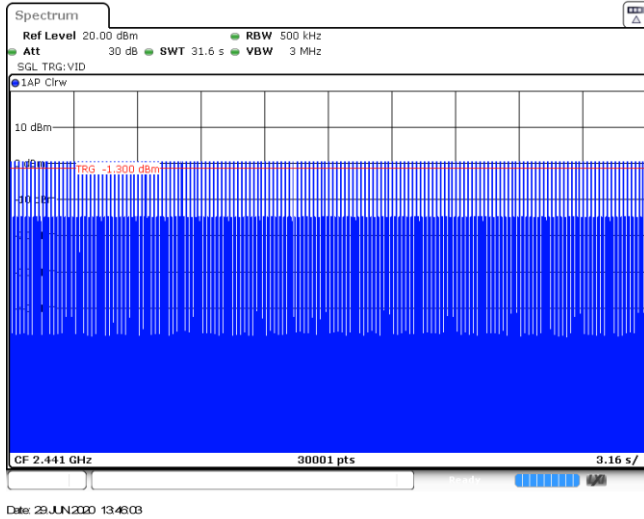
Modulation Type:

$\pi/4$ DQPSK

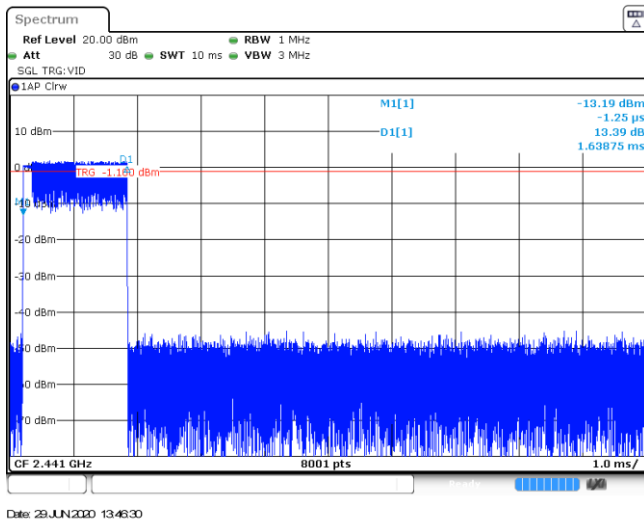
2DH1
Burst width



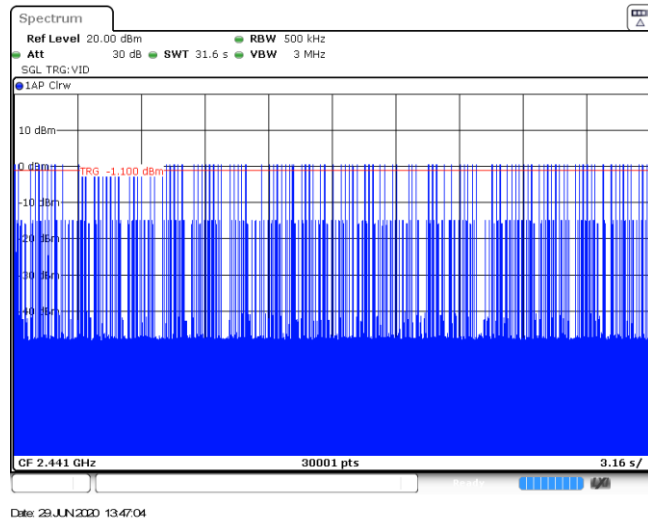
2DH1
Burst number



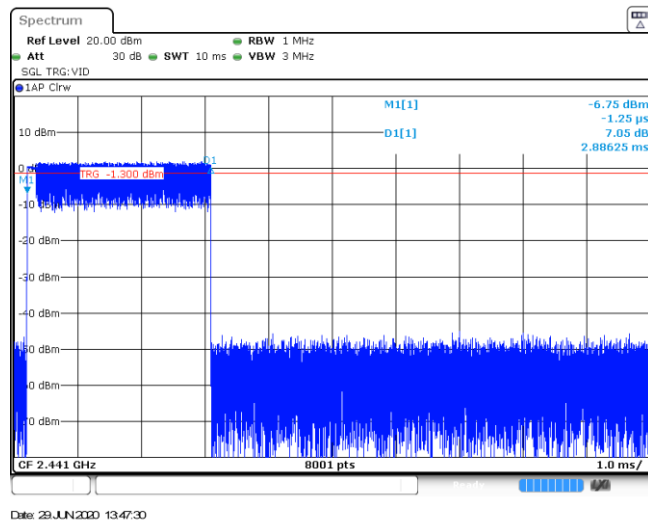
2DH3
Burst width



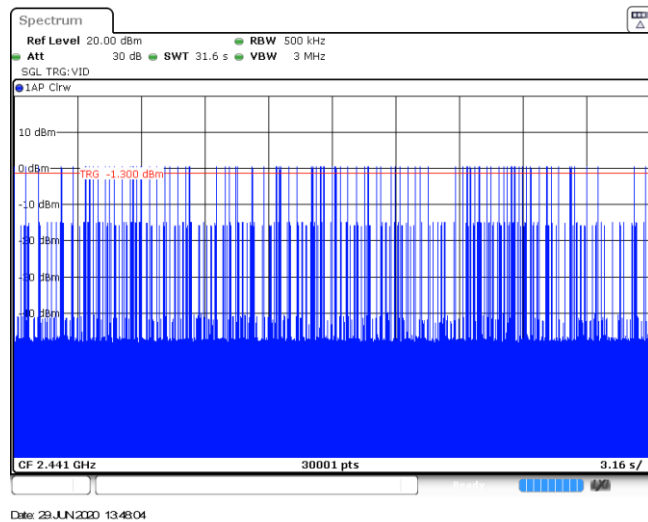
2DH3
Burst number



2DH5
Burst width

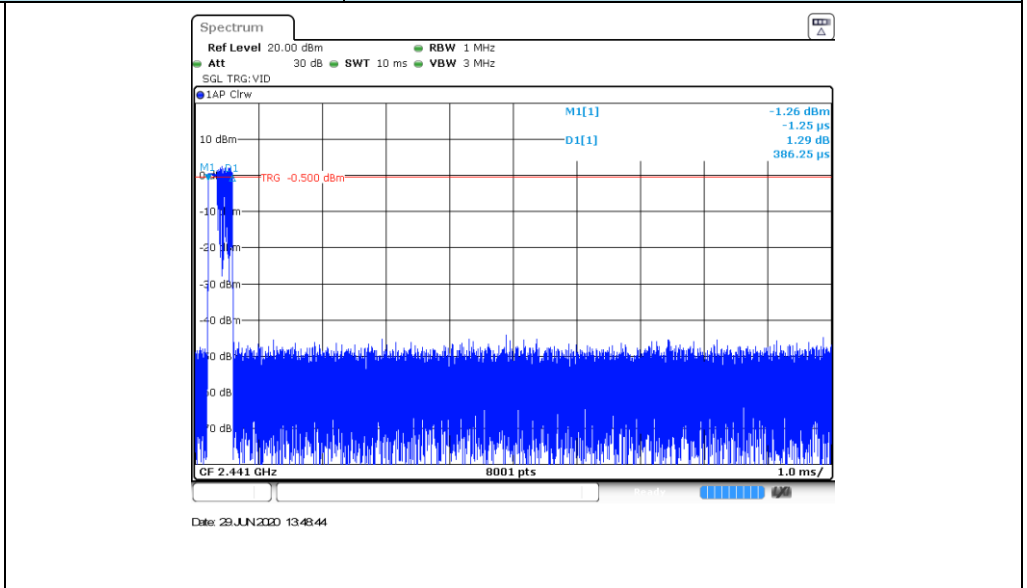


2DH5
Burst number

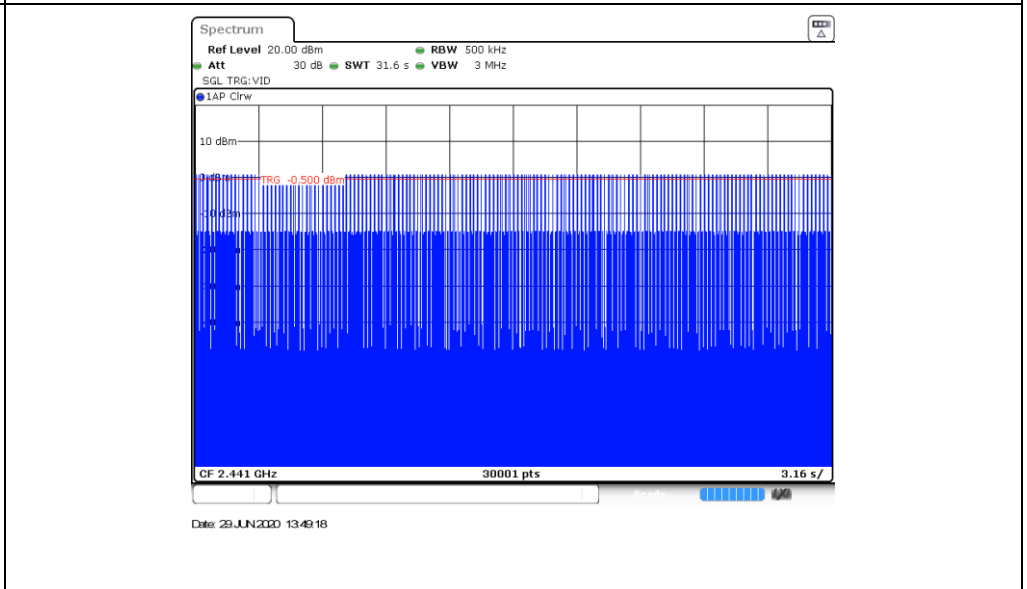


Modulation Type: 8DPSK

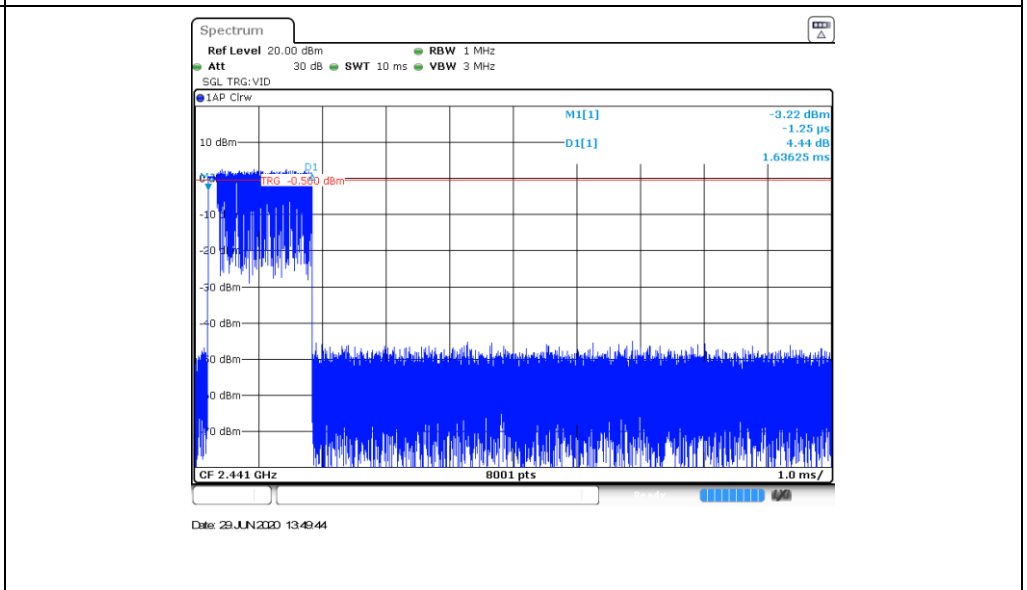
3DH1
Burst width



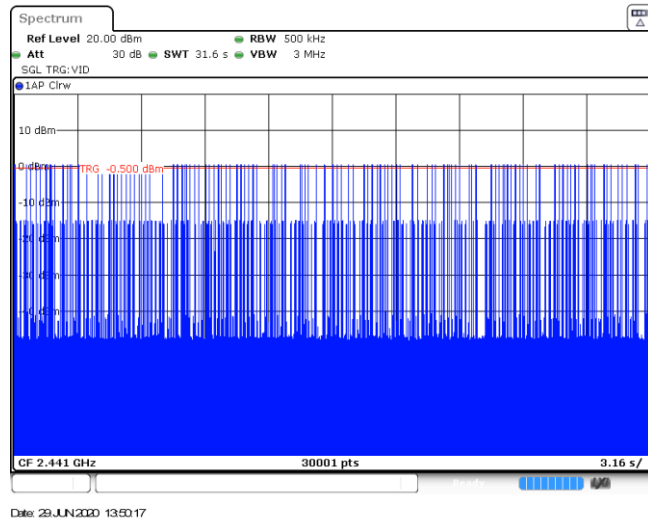
3DH1
Burst number



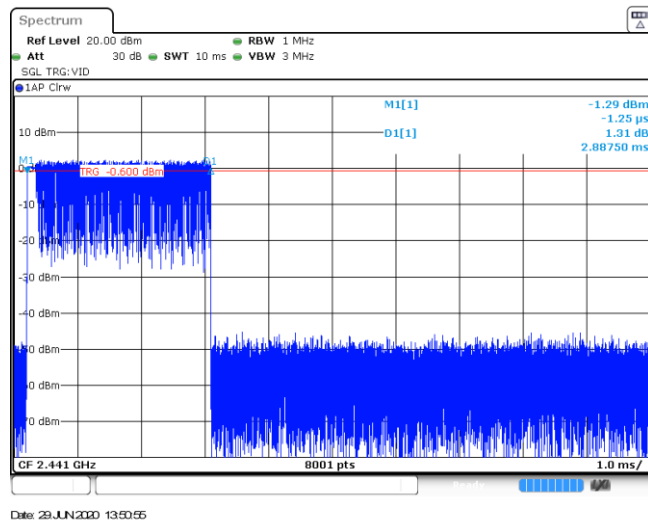
3DH3
Burst width



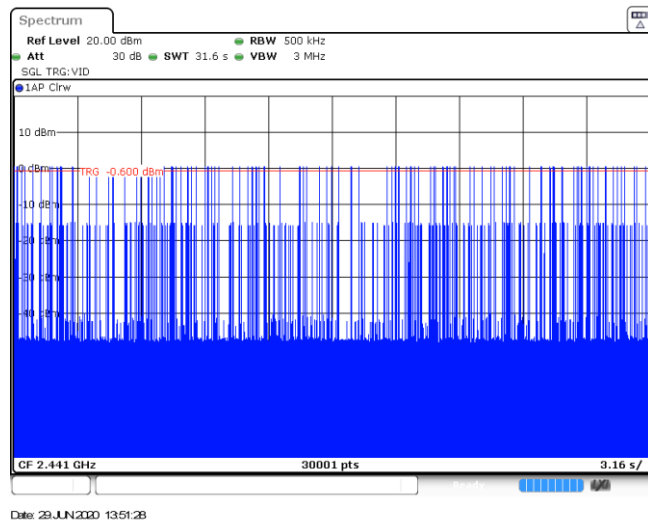
3DH3
Burst number



3DH5
Burst width



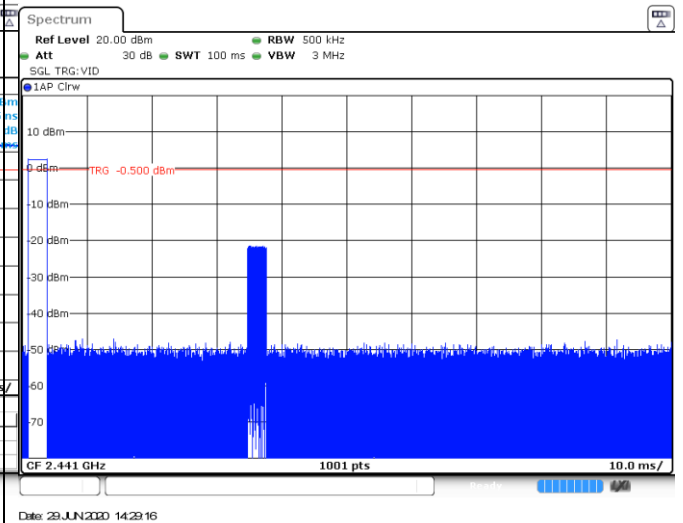
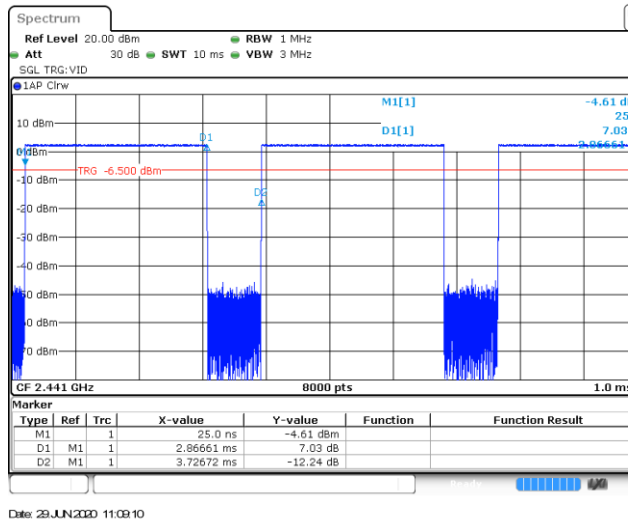
3DH5
Burst number



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	2.87	100	2.00	-24.82
$\pi/4$ DQPSK	2441	2.87	100	2.00	-24.82
8DPSK	2441	2.87	100	1.00	-30.84

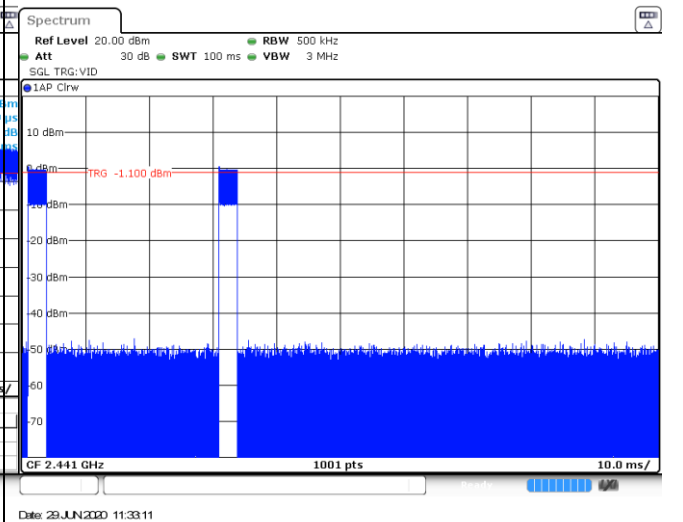
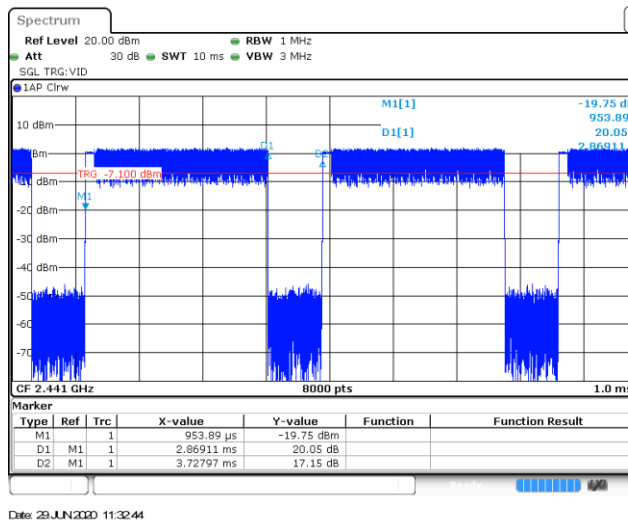
GFSK



T_{on} time for single burst

Burst Quantity

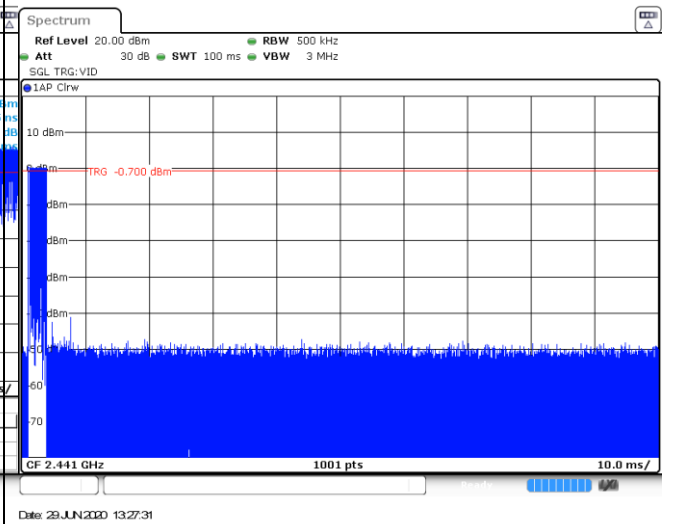
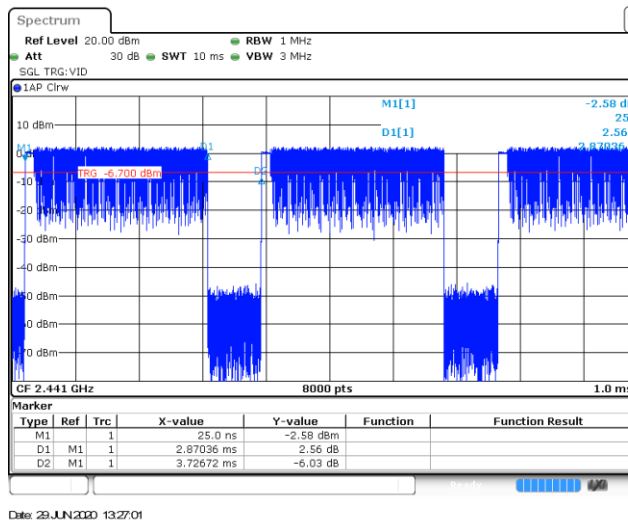
$\pi/4$ DQPSK



T_{on} time for single burst

Burst Quantity

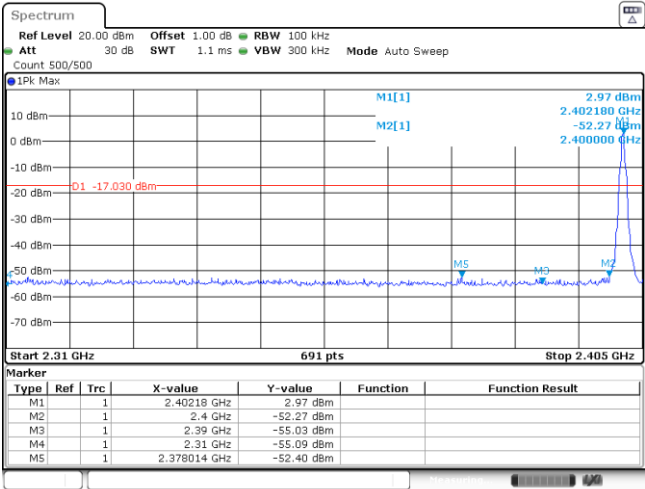
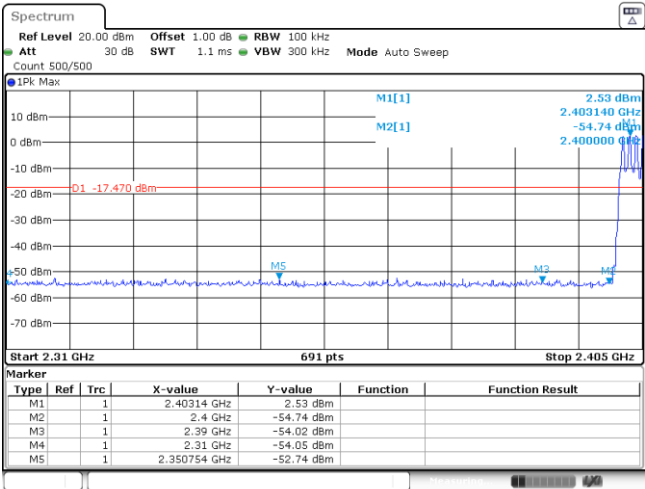
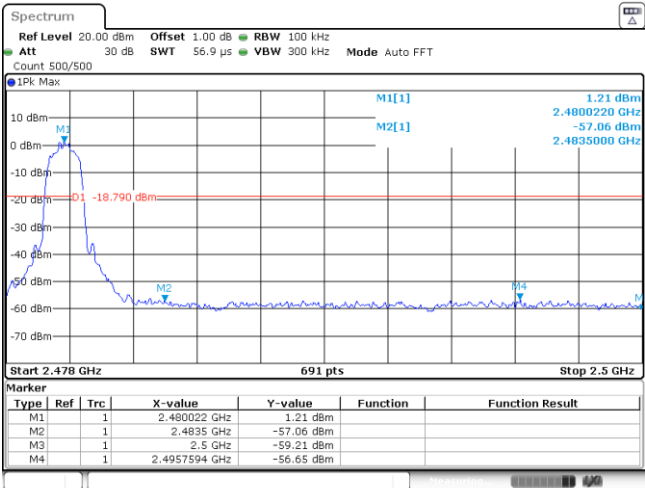
8DPSK



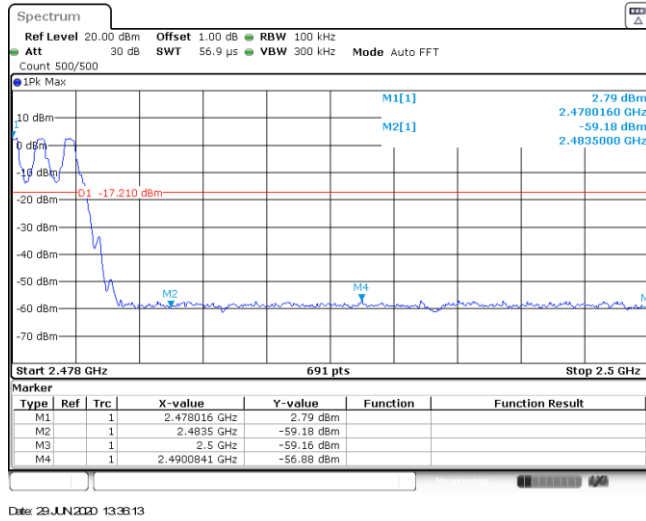
T_{on} time for single burst

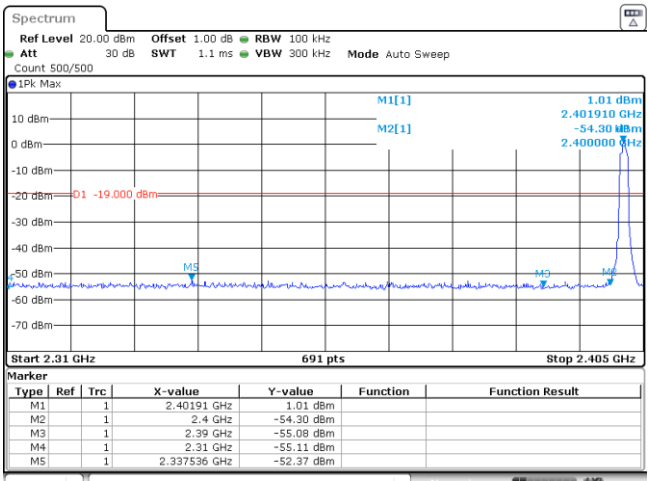
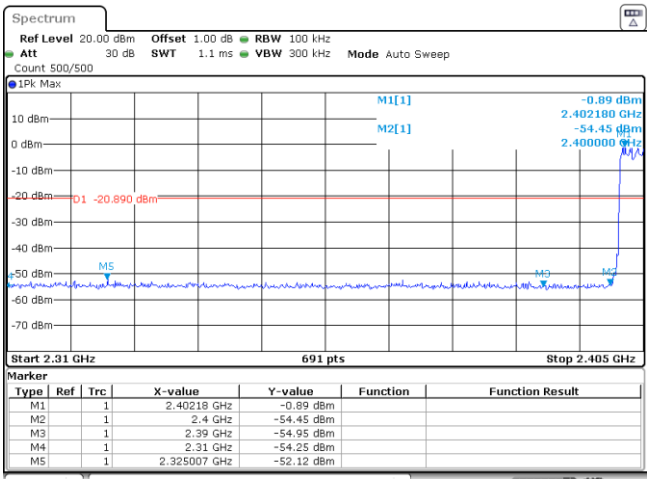
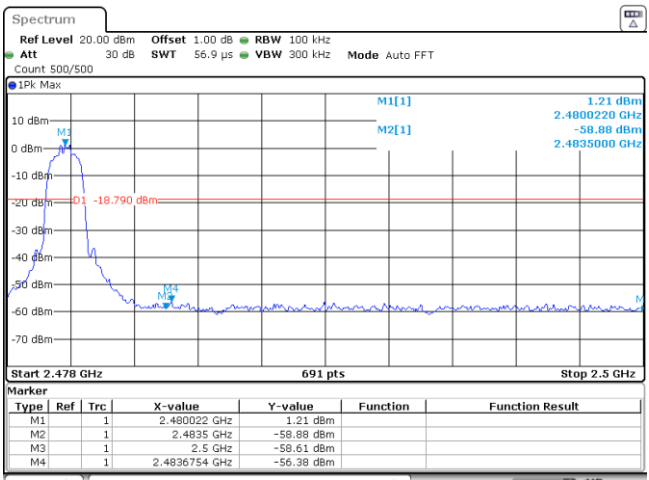
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

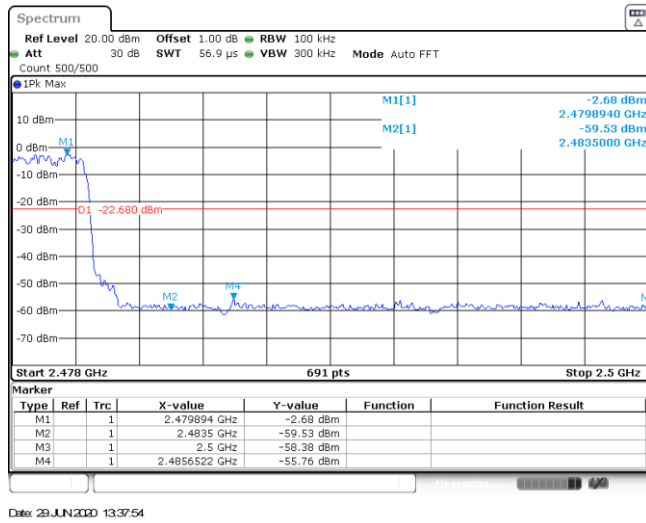
Test Item:	Band edge	Modulation type:	GFSK																																										
<p>CH00 No hopping mode</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>IPK Max</p> <p>10 dBm M1[1] 2.97 dBm 2.402180 GHz 0 dBm M2[1] -52.27 dBm 2.400000 GHz -10 dBm -20 dBm D1 -17.030 dBm -30 dBm -40 dBm M5 M3 M2 -50 dBm -60 dBm -70 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.405 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40218 GHz</td> <td>2.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-52.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-55.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-55.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.378014 GHz</td> <td>-52.40 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 29 JUN 2020 10:58:54</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40218 GHz	2.97 dBm			M2	1	1	2.4 GHz	-52.27 dBm			M3	1	1	2.39 GHz	-55.09 dBm			M4	1	1	2.31 GHz	-55.09 dBm			M5	1	1	2.378014 GHz	-52.40 dBm		
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<p>CH78 No hopping mode</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 56.9 µs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK Max</p> <p>10 dBm M1[1] 1.21 dBm 2.4800220 GHz 0 dBm M2[1] -57.06 dBm 2.4835000 GHz -10 dBm -20 dBm D1 -18.790 dBm -30 dBm -40 dBm M2 M3 M4 -50 dBm -60 dBm -70 dBm</p> <p>Start 2.478 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.480022 GHz</td> <td>1.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4835 GHz</td> <td>-57.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.5 GHz</td> <td>-59.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.4957594 GHz</td> <td>-56.65 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 29 JUN 2020 11:29:29</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.480022 GHz	1.21 dBm			M2	1	1	2.4835 GHz	-57.06 dBm			M3	1	1	2.5 GHz	-59.21 dBm			M4	1	1	2.4957594 GHz	-56.65 dBm									
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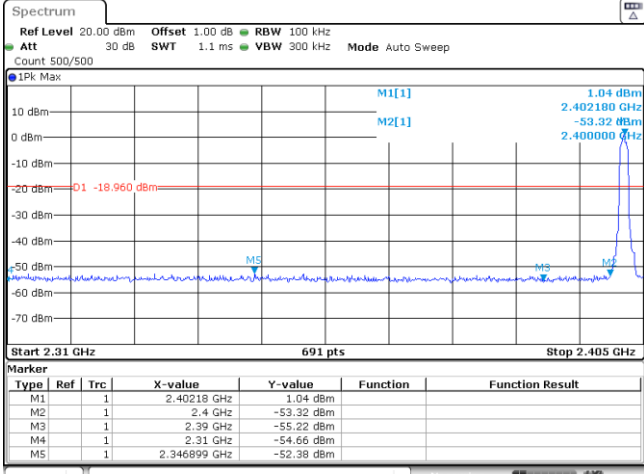
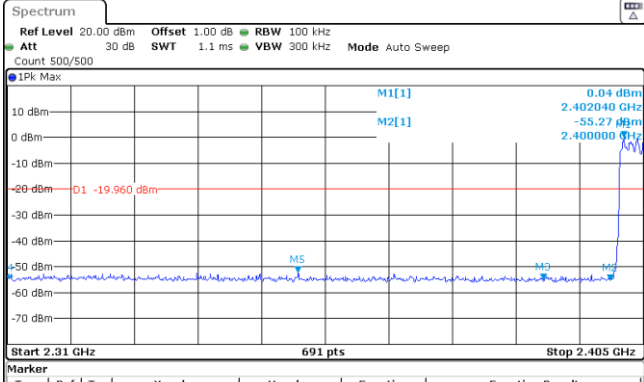
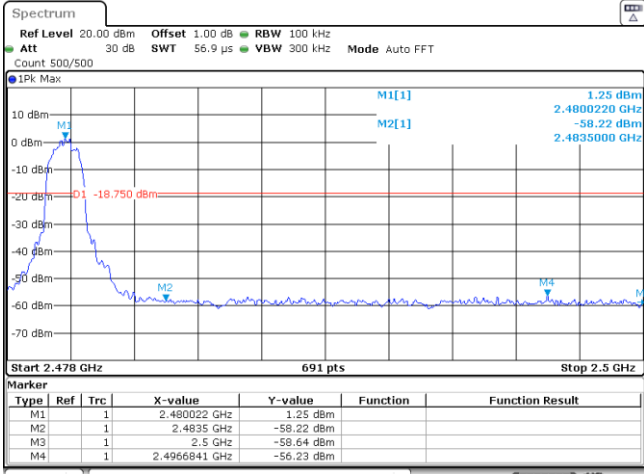
CH78
Hopping mode



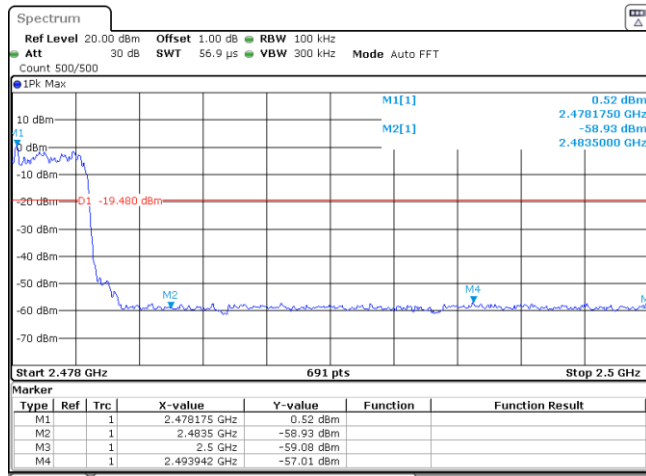
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																																
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CH78
Hopping mode

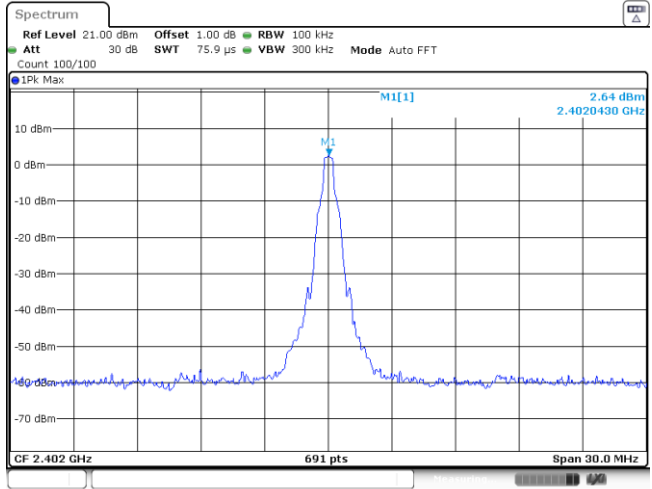
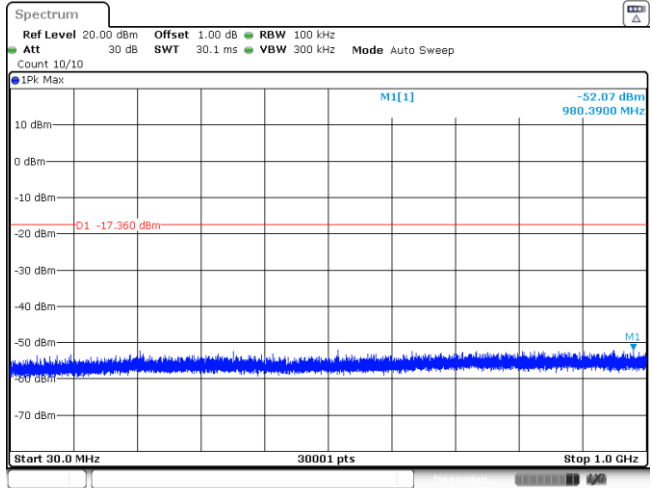
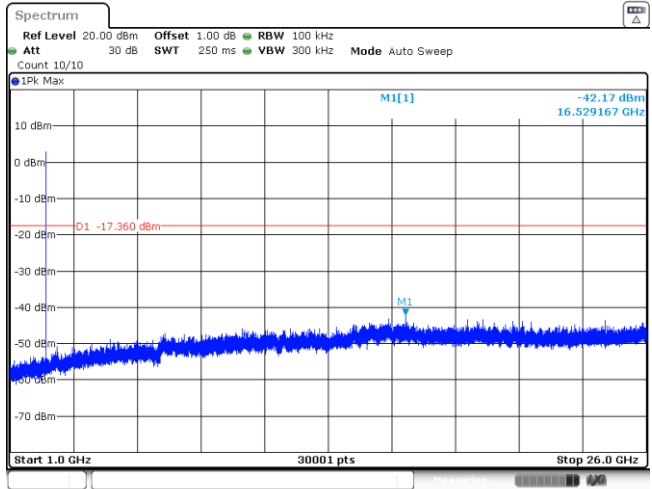


Test Item:	Band edge	Modulation type:	8DPSK																																																
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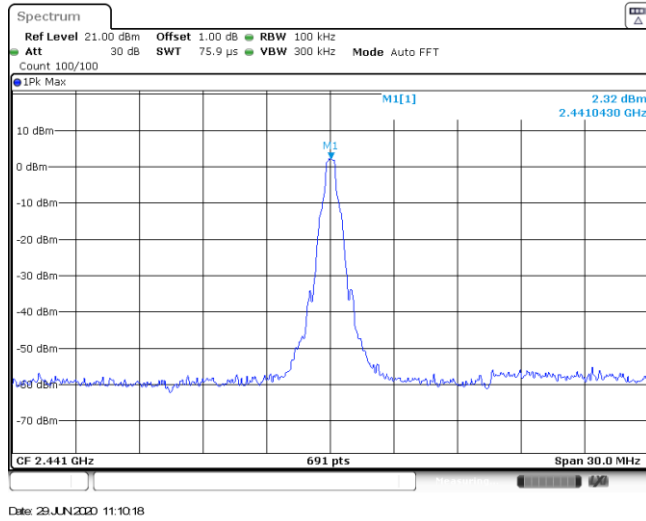
CH78
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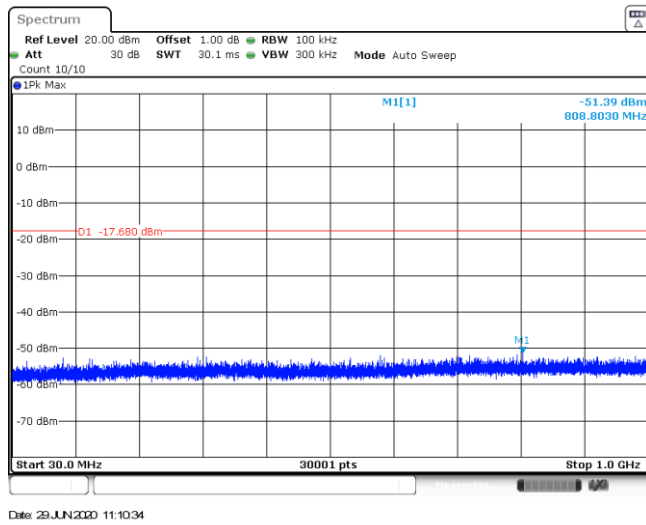
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Test Item:	Spurious Emission	Modulation type:	GFSK
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CH00 30MHz~1000MHz	 <p>Date: 29 JUN 2020 10:58:07</p>		
CH00 1GHz~26GHz	 <p>Date: 29 JUN 2020 10:58:23</p>		

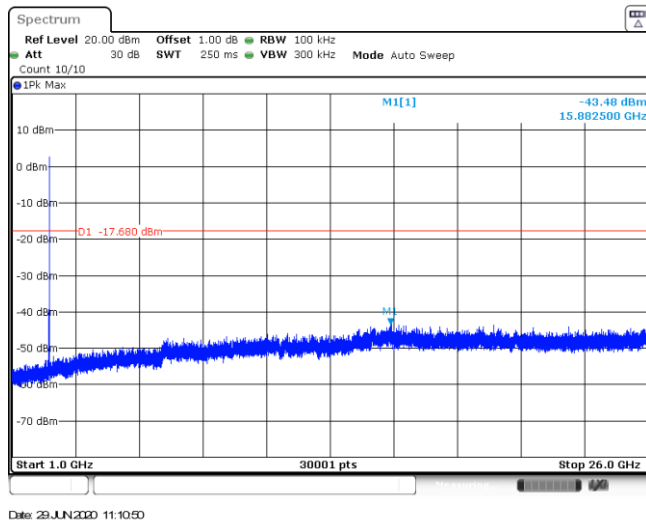
CH39
Reference level



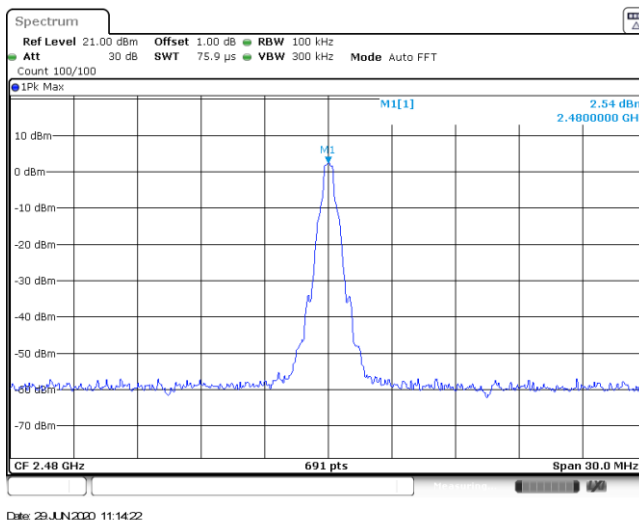
CH39
30MHz~1000MHz



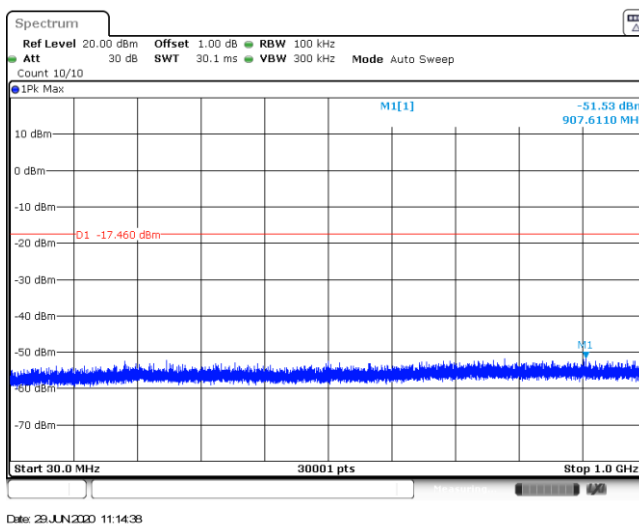
CH39
1GHz~26GHz



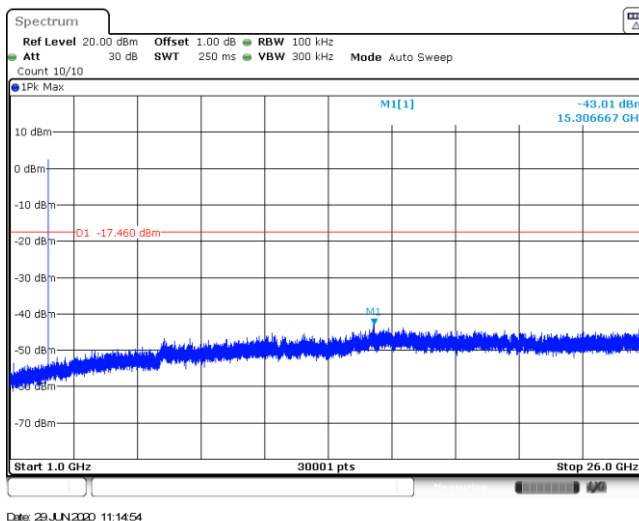
CH78
Reference level

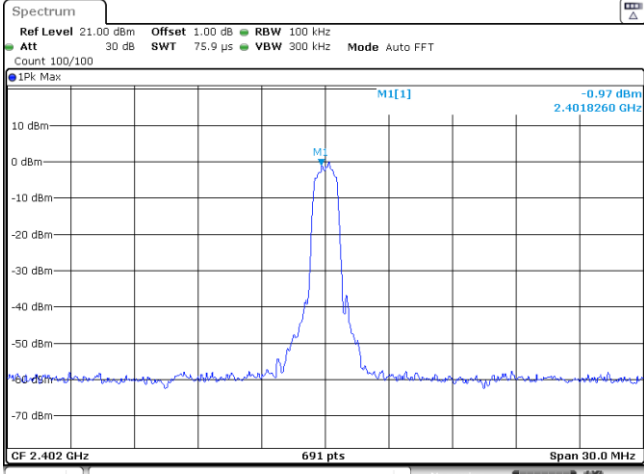
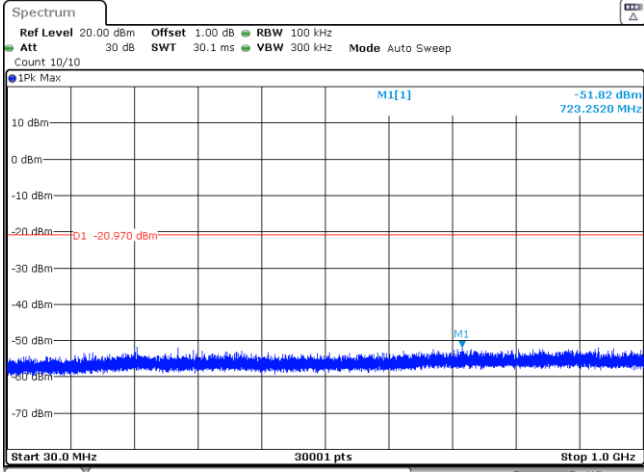
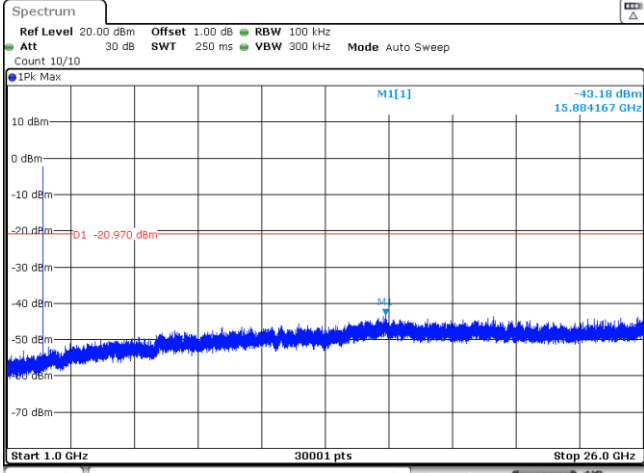


CH78
30MHz~1000MHz

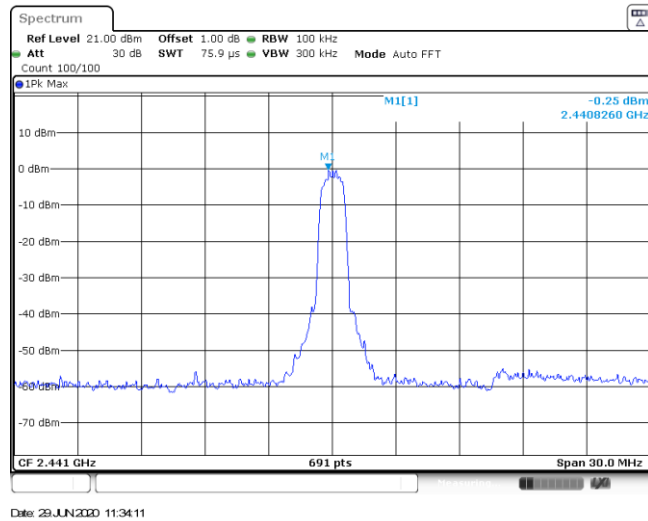


CH78
1GHz~26GHz

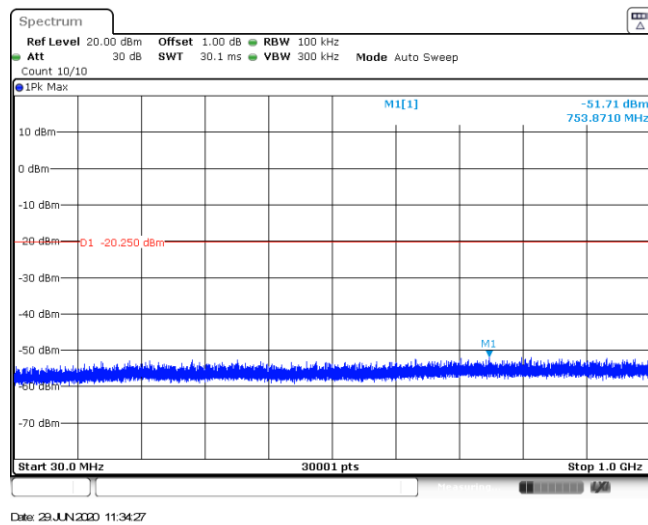


Test Item:	Spurious Emission	Modulation type:	π/4DQPSK
<p>CH00 Reference level</p>	 <p>Date: 29 JUN 2020 11:20:54</p>		
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 29 JUN 2020 11:21:09</p>		
<p>CH00 1GHz~26GHz</p>	 <p>Date: 29 JUN 2020 11:21:25</p>		

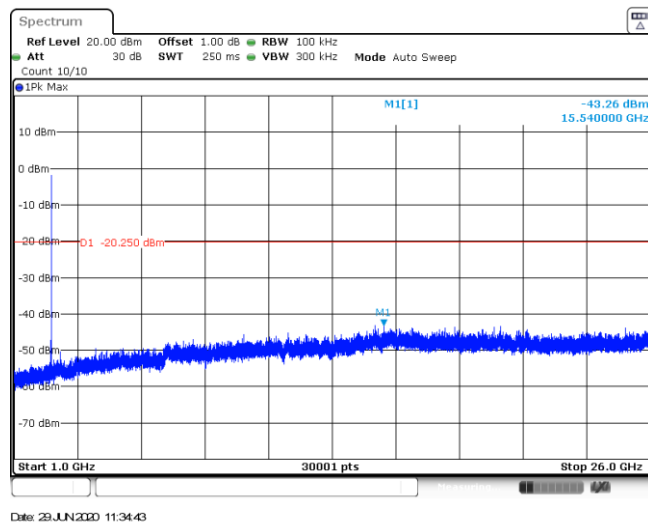
CH39
Reference level



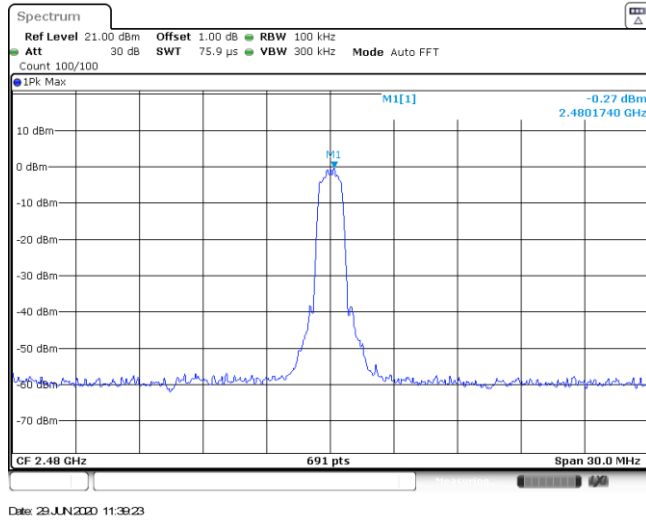
CH39
30MHz~1000MHz



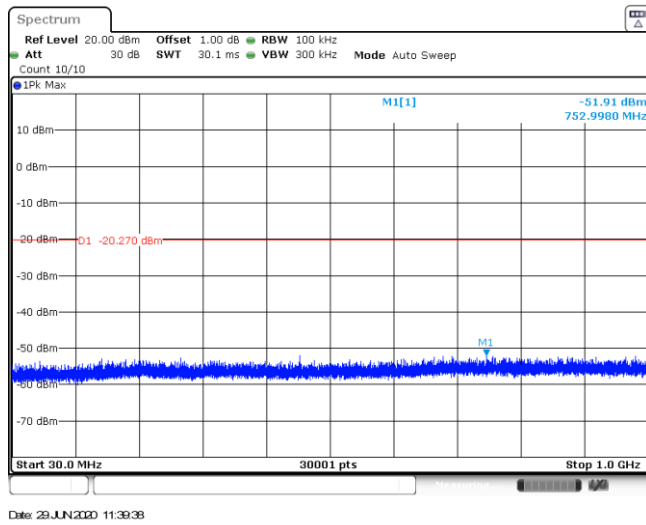
CH39
1GHz~26GHz



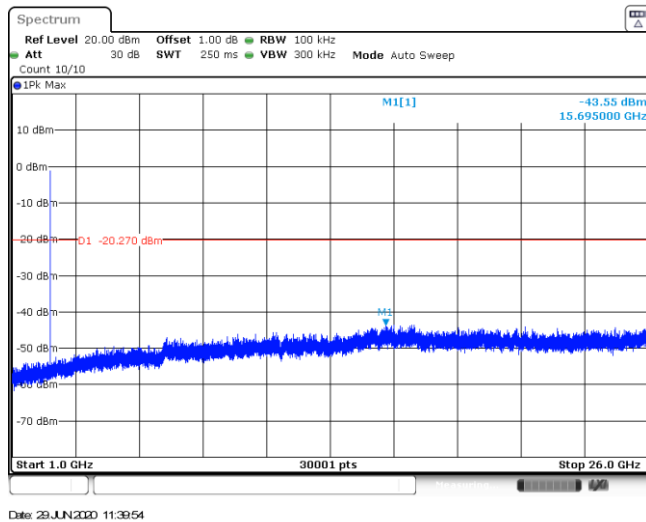
CH78
Reference level

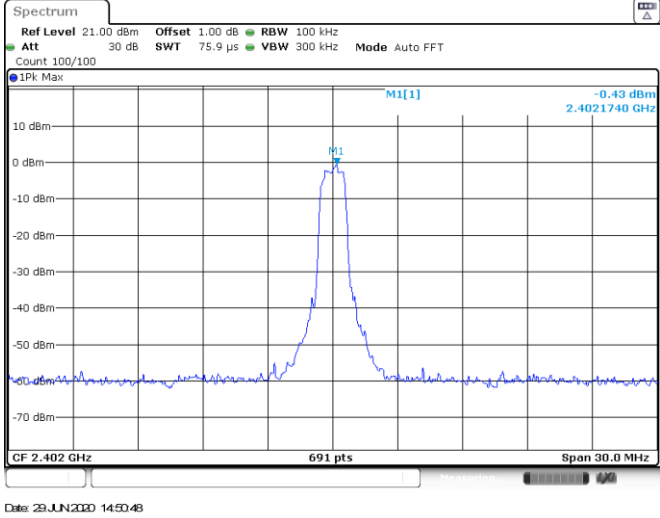
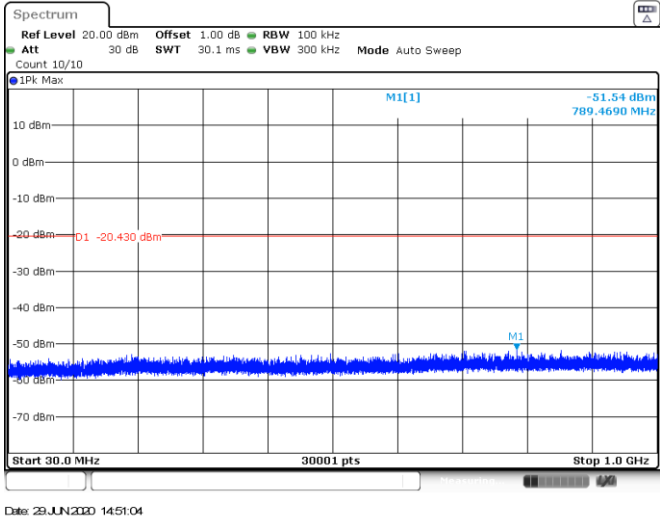
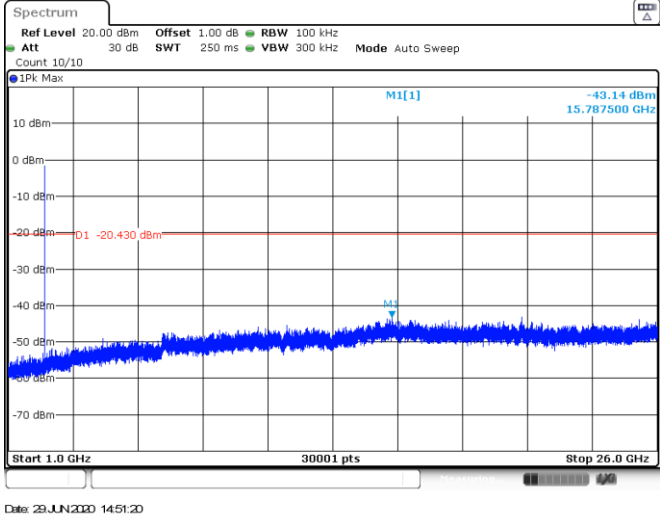


CH78
30MHz~1000MHz

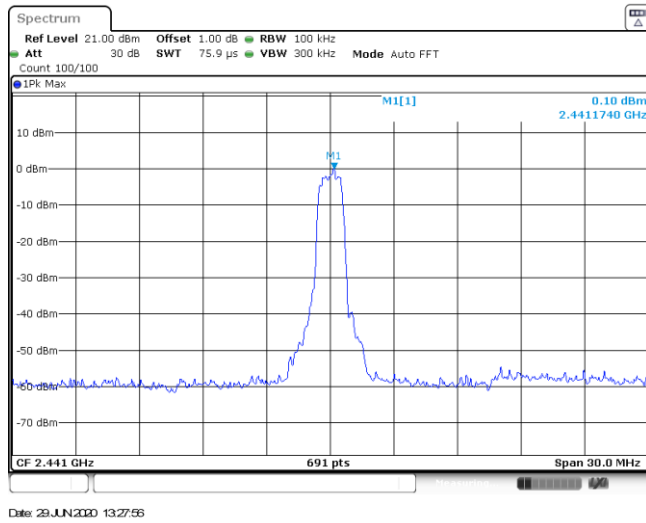


CH78
1GHz~26GHz

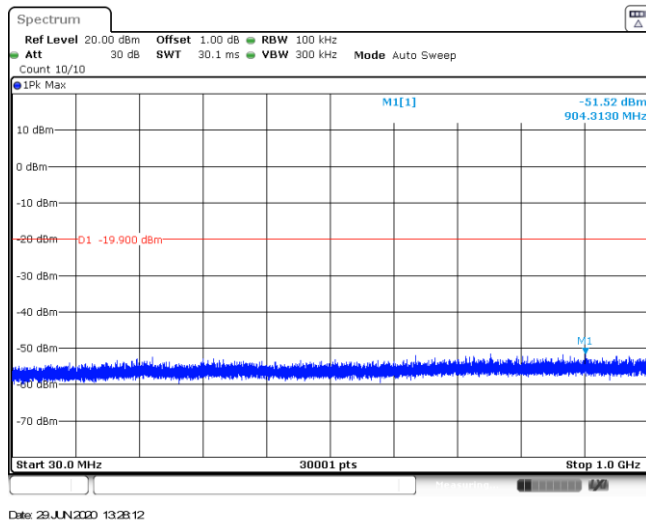


Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max M1[1] -0.43 dBm 2.4021740 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 23 JUN 2020 14:50:48</p>		
CH00 30MHz~1000MHz	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max M1[1] -51.54 dBm 789.4690 MHz</p> <p>D1 -20.430 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 23 JUN 2020 14:51:04</p>		
CH00 1GHz~26GHz	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max M1[1] -43.14 dBm 15.787500 GHz</p> <p>D1 -20.430 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 23 JUN 2020 14:51:20</p>		

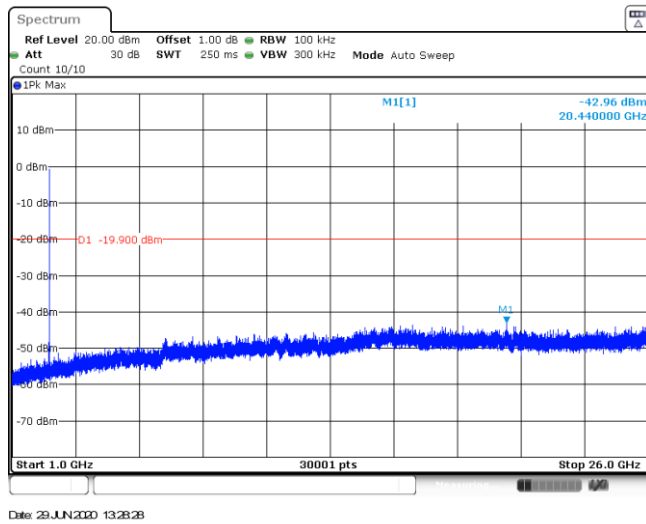
CH39
Reference level



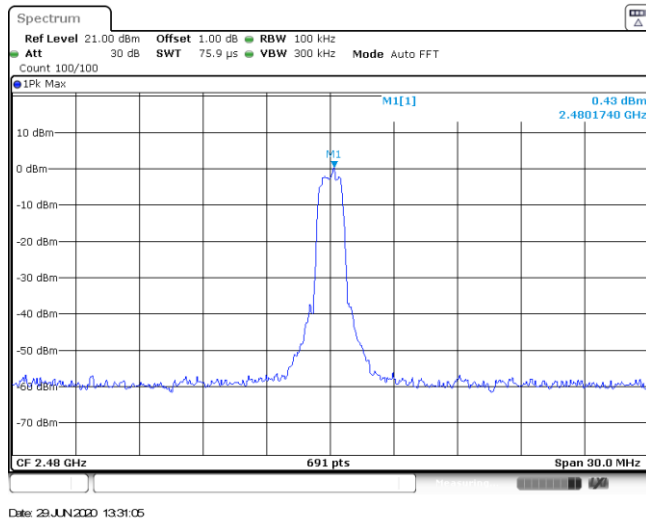
CH39
30MHz~1000MHz



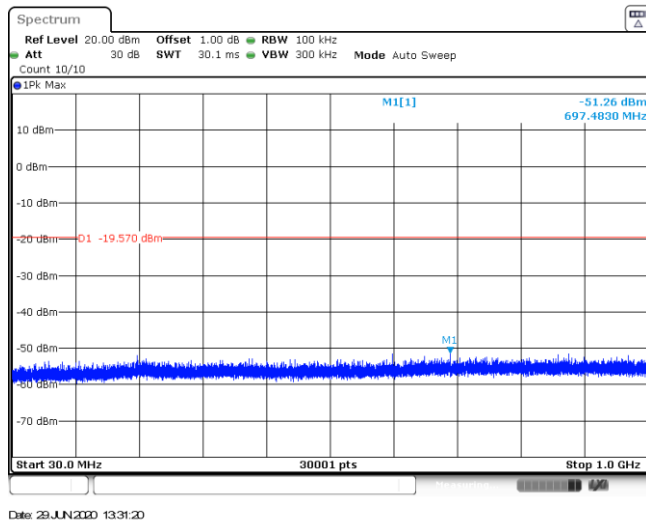
CH39
1GHz~26GHz



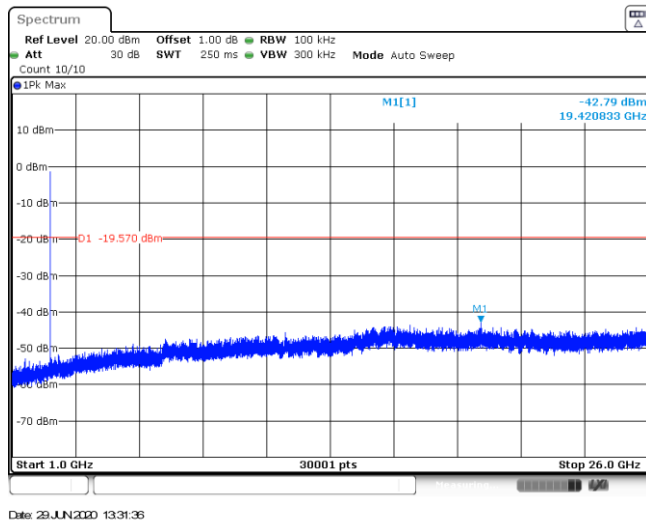
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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