

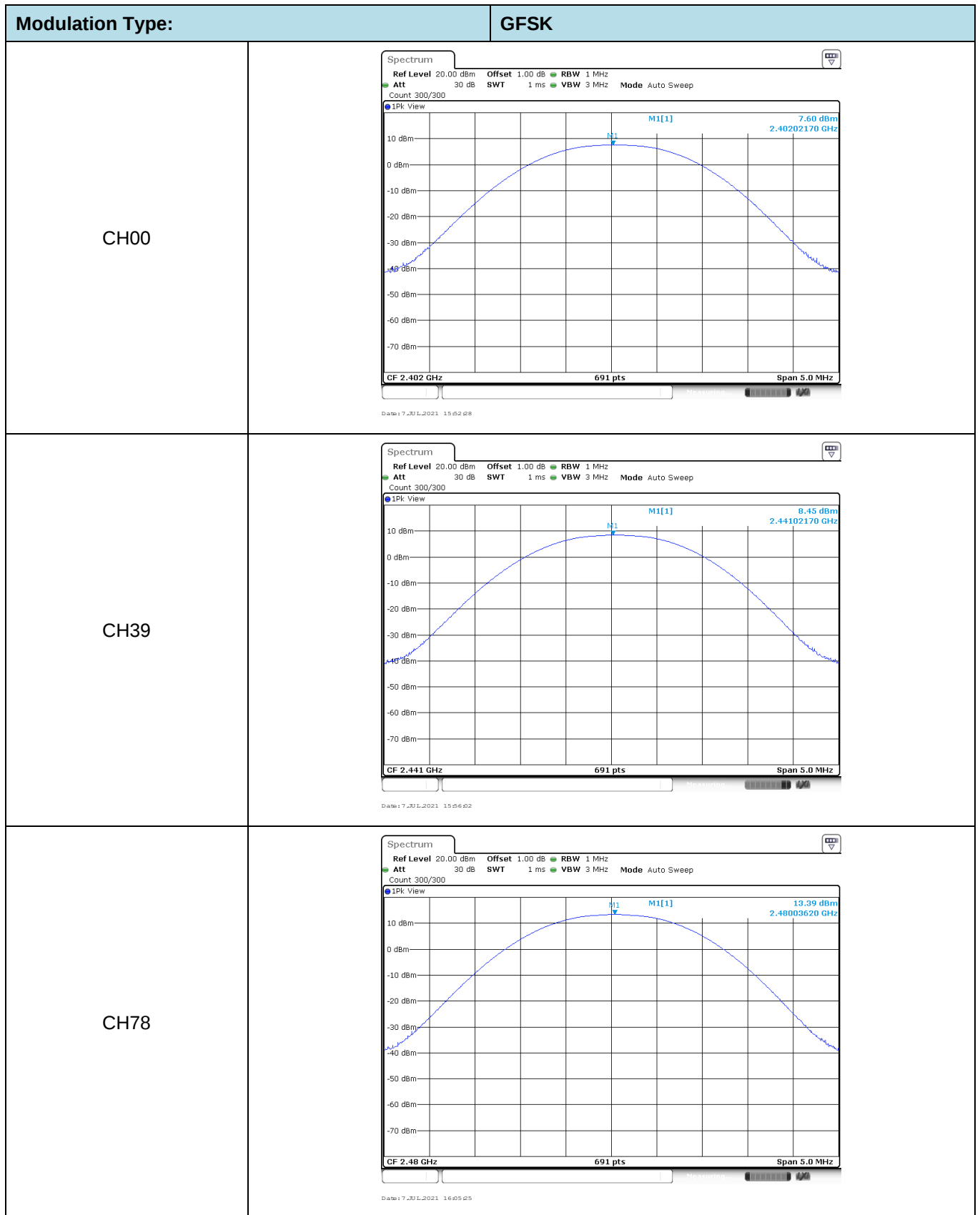
APPENDIX REPORT

Project No.	SHT2107001005EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT21070010013	Model No.	L610
Start test date	2021-07-07	Finish date	2021-07-07
Temperature	25.8°C	Humidity	33%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhao

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

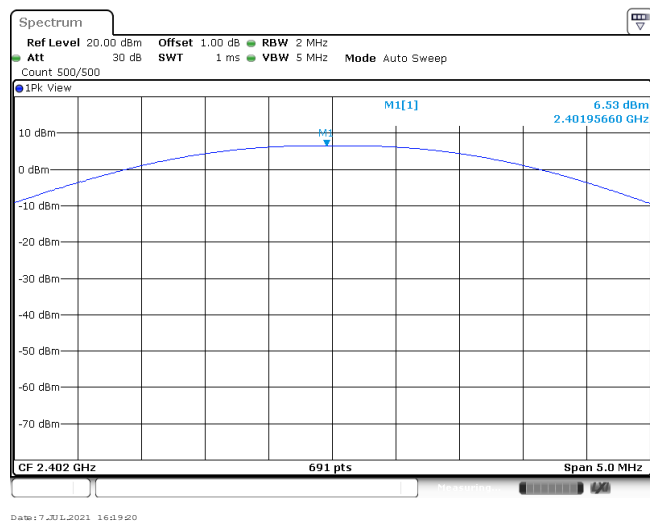
Modulation type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	7.60	7.59	≤ 30.00	Pass
	39	8.45	8.44		
	78	13.39	13.38		
$\pi/4$ DQPSK	00	6.53	6.43	≤ 21.00	Pass
	39	7.55	7.40		
	78	13.10	12.89		
8DPSK	00	6.50	6.38	≤ 21.00	Pass
	39	7.49	7.32		
	78	12.97	12.78		



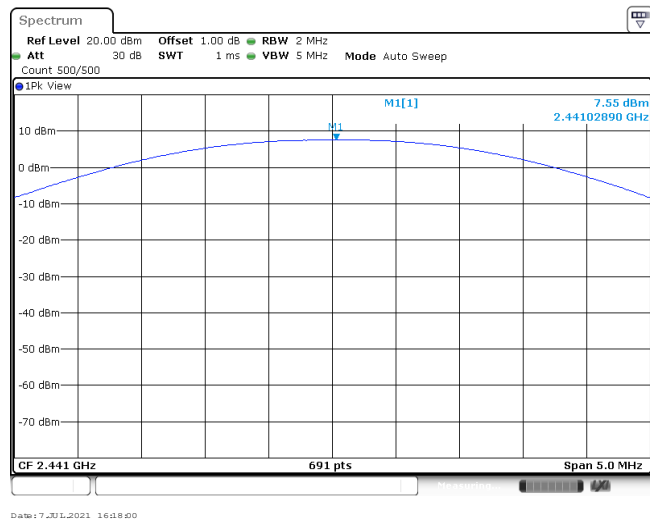
Modulation Type:

 $\pi/4$ DQPSK

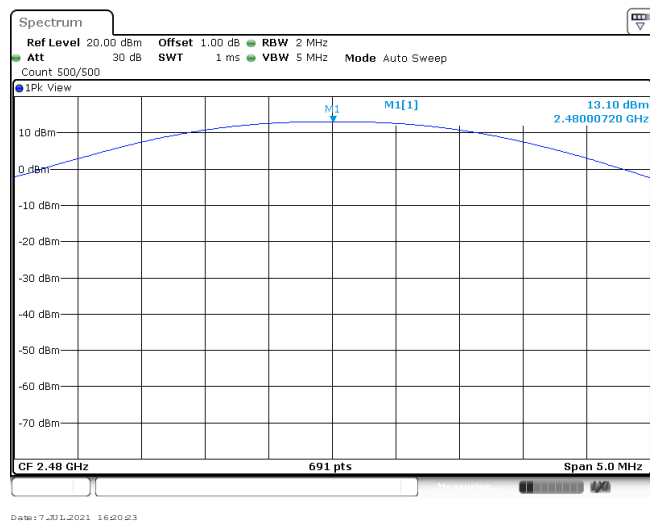
CH00



CH39



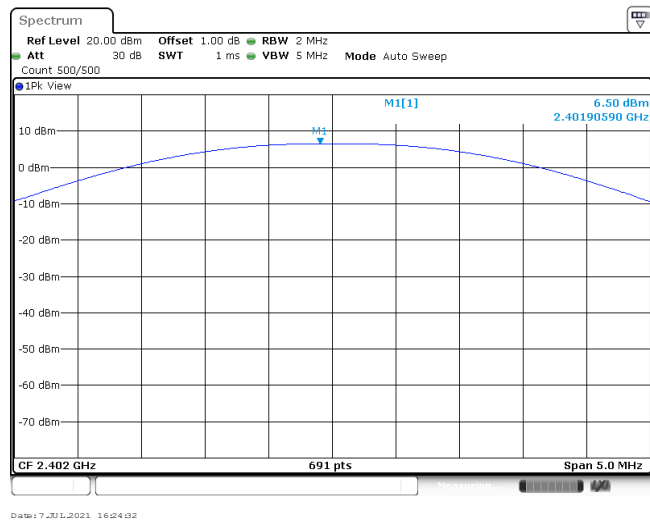
CH78



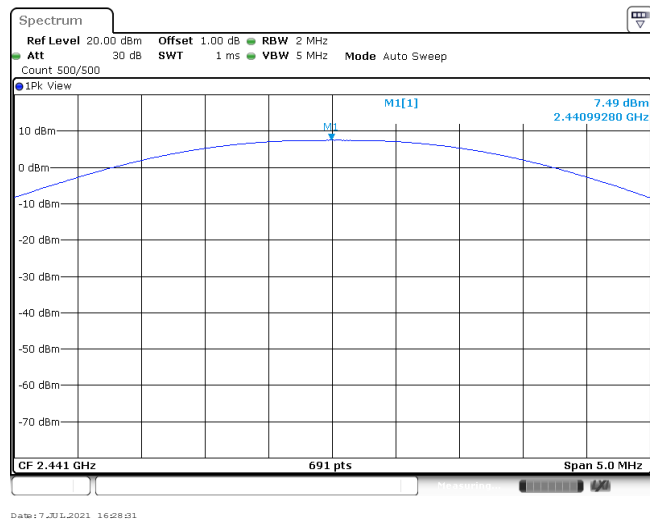
Modulation Type:

8DPSK

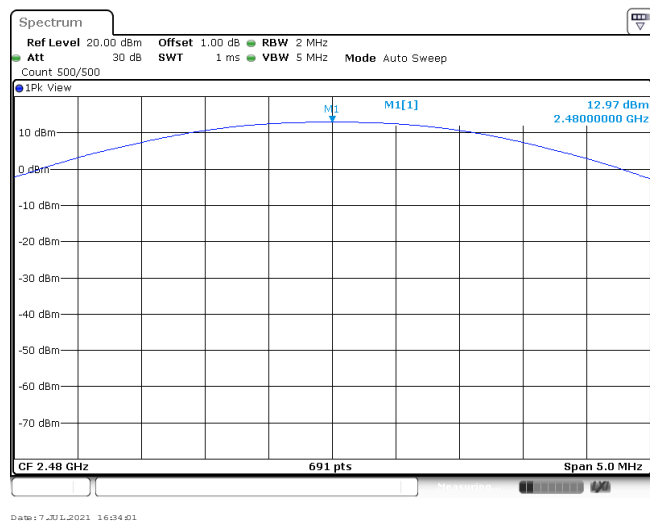
CH00



CH39



CH78



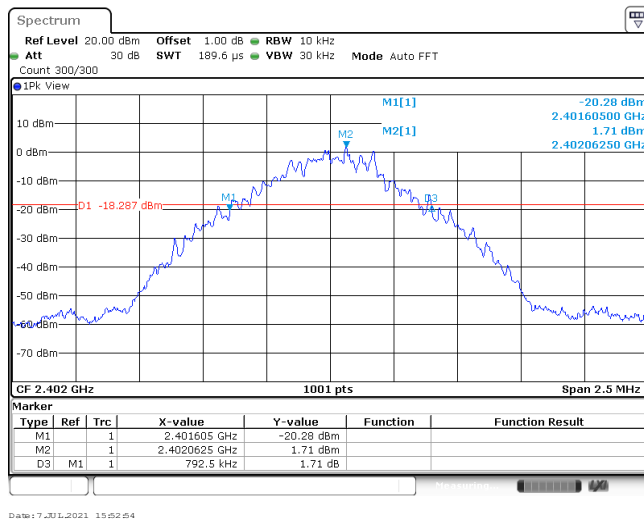
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	792.50	-	Pass
	39	792.50		
	78	792.50		
$\pi/4$ DQPSK	00	1257.50	-	Pass
	39	1267.50		
	78	1275.00		
8DPSK	00	1255.00	-	Pass
	39	1257.50		
	78	1272.50		

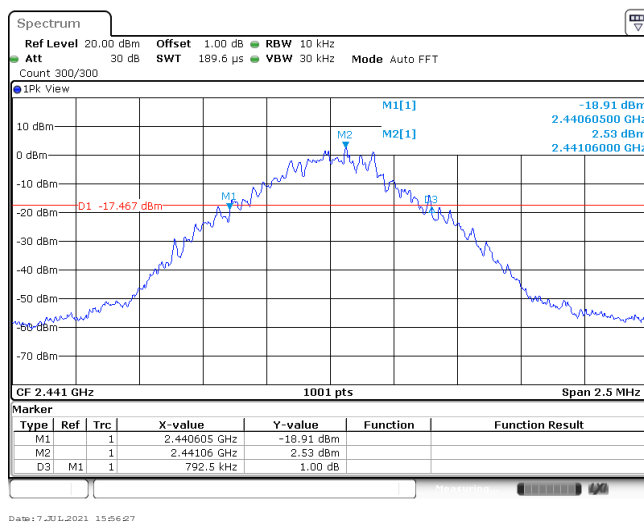
Modulation Type:

GFSK

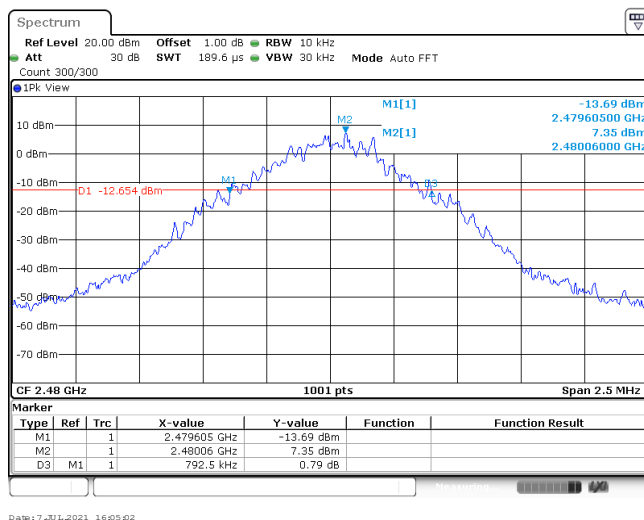
CH00



CH39



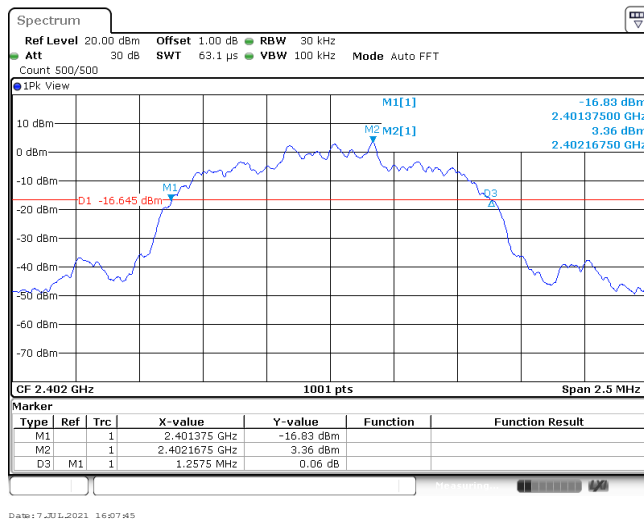
CH78



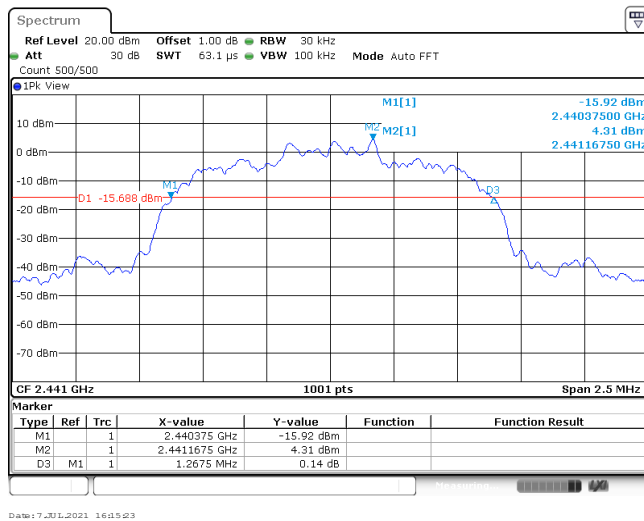
Modulation Type:

 $\pi/4$ DQPSK

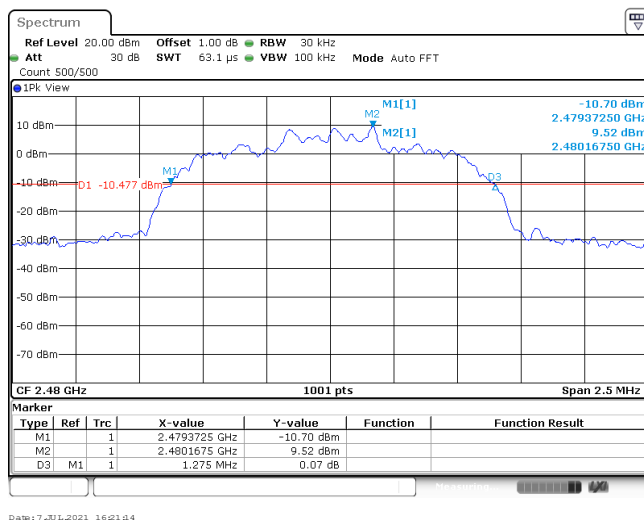
CH00



CH39



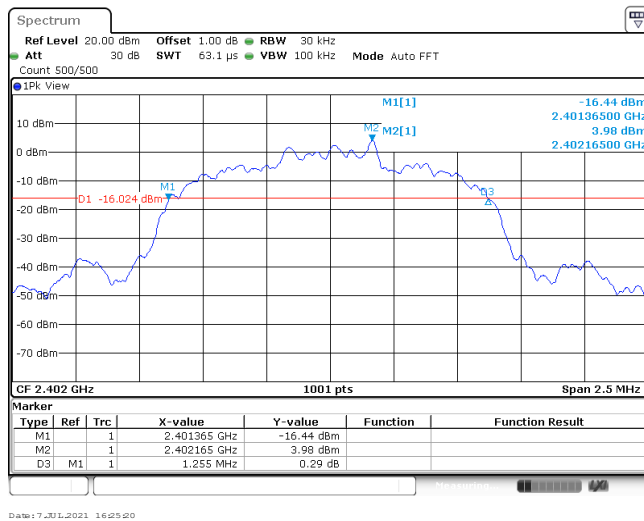
CH78



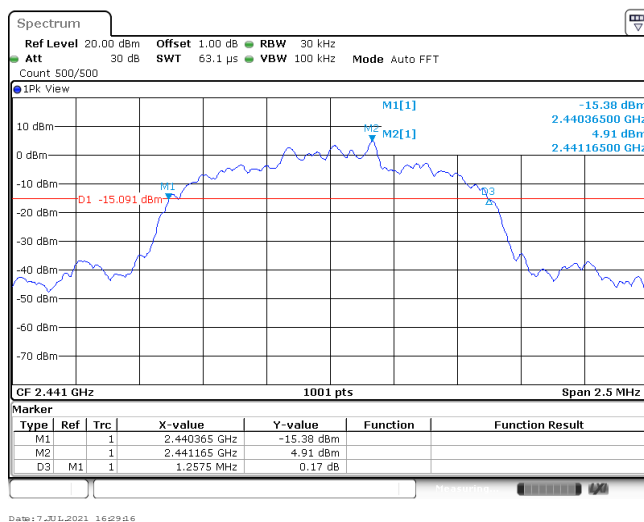
Modulation Type:

8DPSK

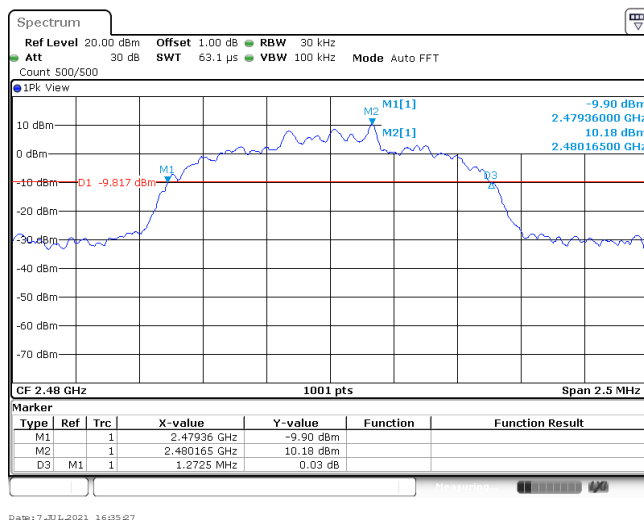
CH00



CH39

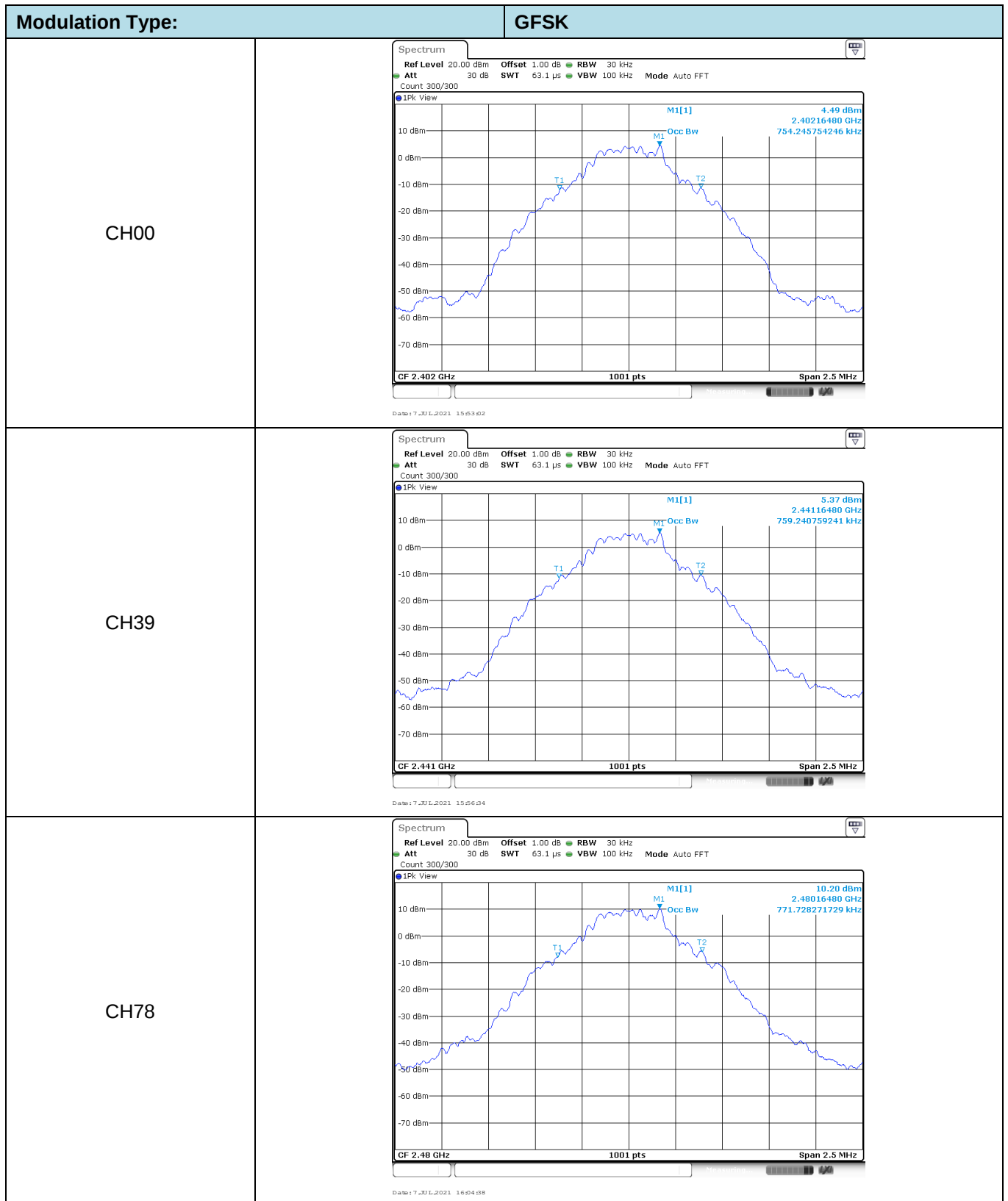


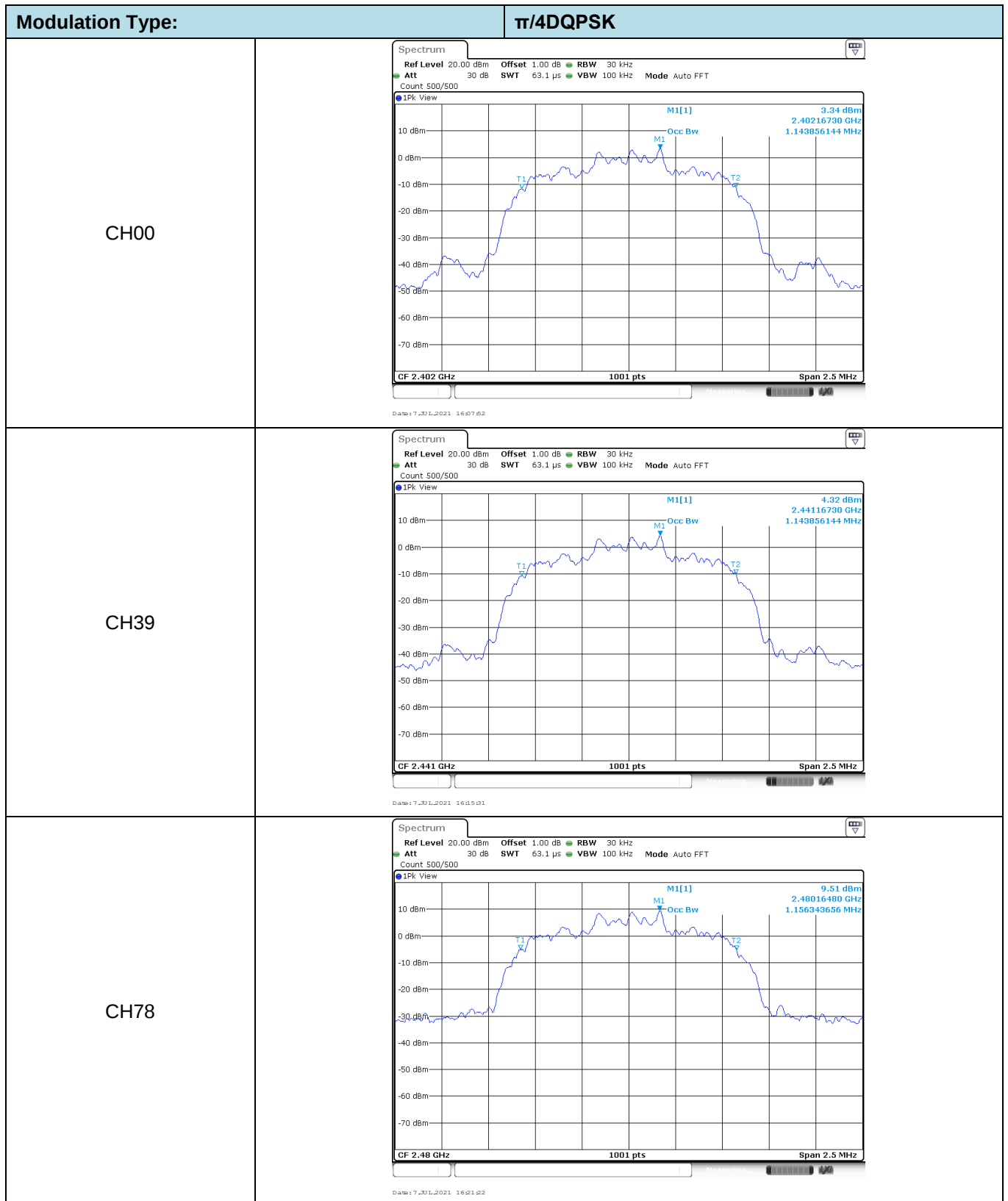
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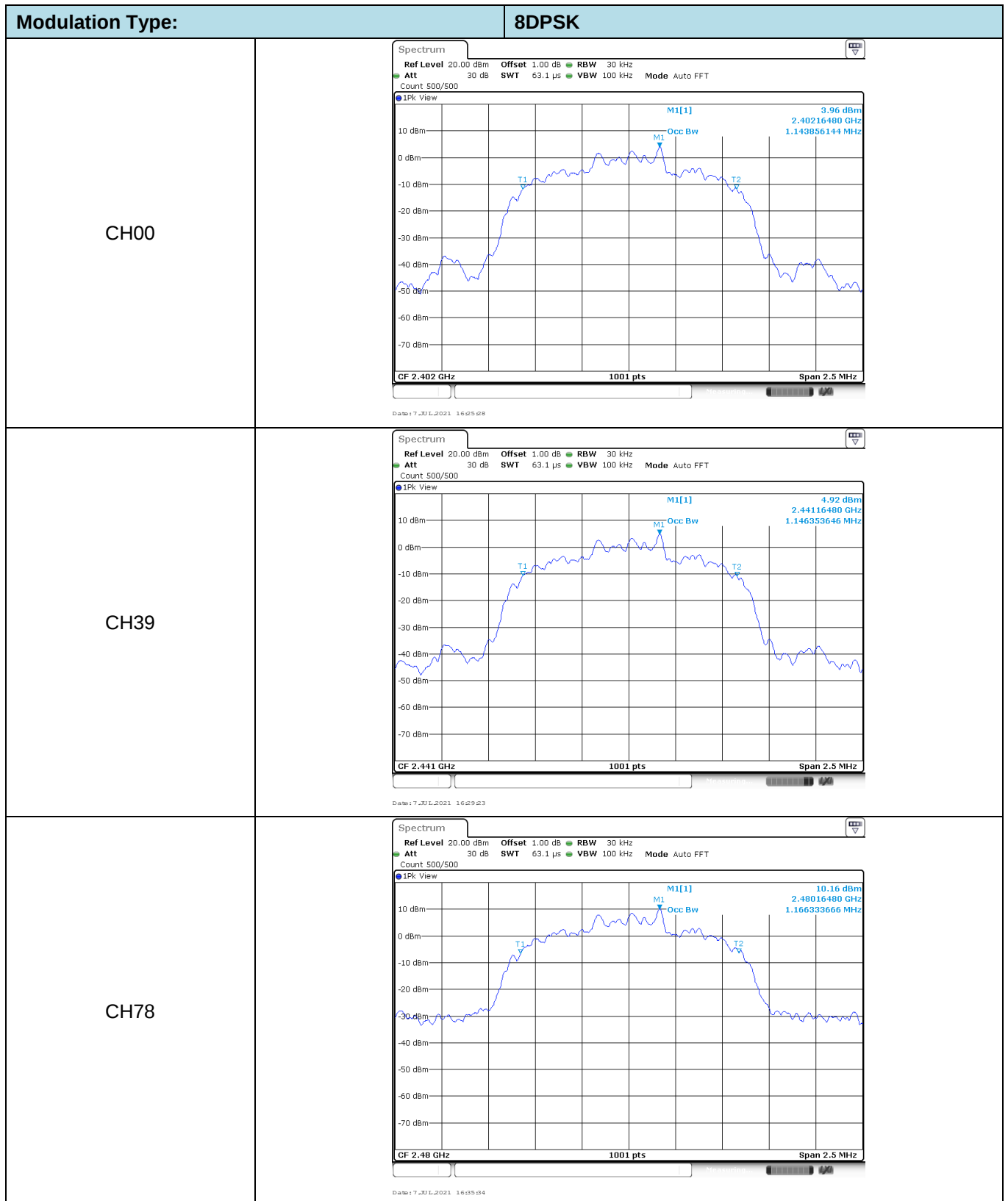


Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.75	-	Pass
	39	0.76		
	78	0.77		
$\pi/4$ DQPSK	00	1.14	-	Pass
	39	1.14		
	78	1.16		
8DPSK	00	1.14	-	Pass
	39	1.15		
	78	1.17		







Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥ 792.50	Pass
$\pi/4$ DQPSK	39	1.00	≥ 850.00	Pass
8DPSK	39	1.00	≥ 850.33	Pass

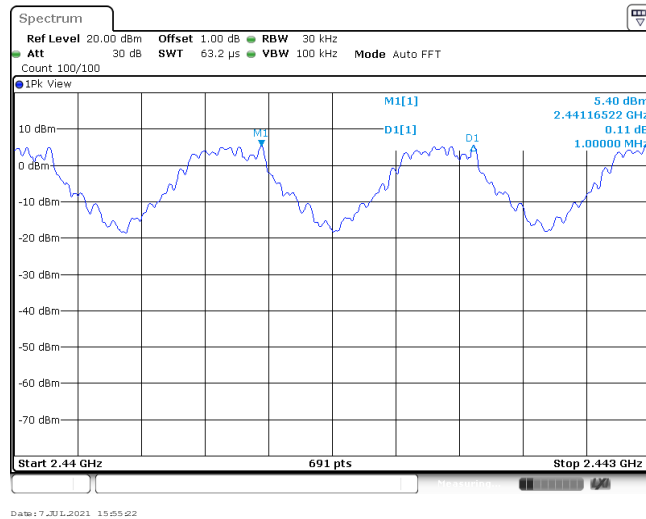
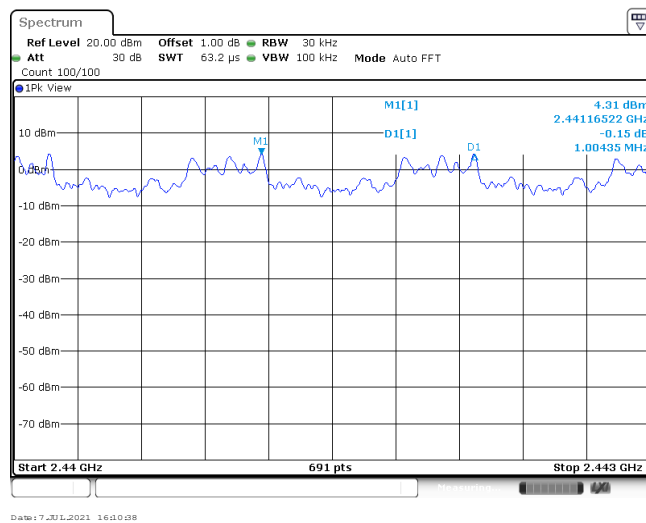
Note:

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

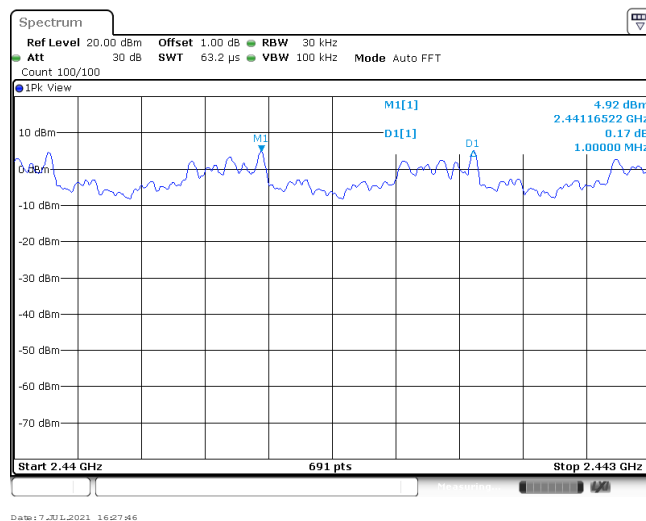
$\pi/4$ DQPSK limit = $2/3$ * The maximum 20 dB Bandwidth for $\pi/4$ DQPSK modulation on the appendix B.

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

GFSK

 π /4DQPSK

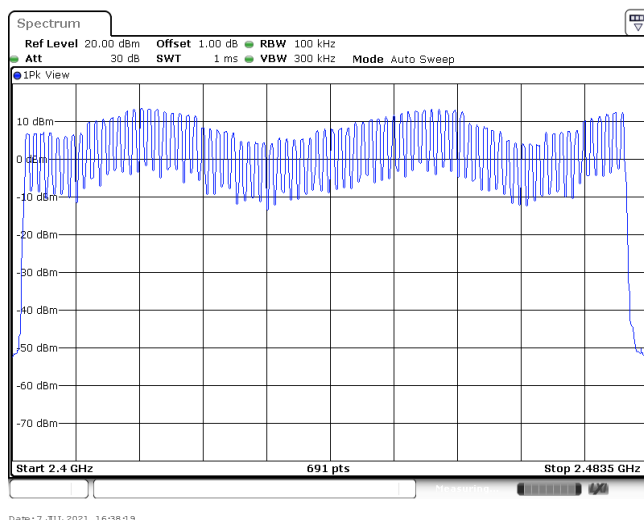
8DPSK



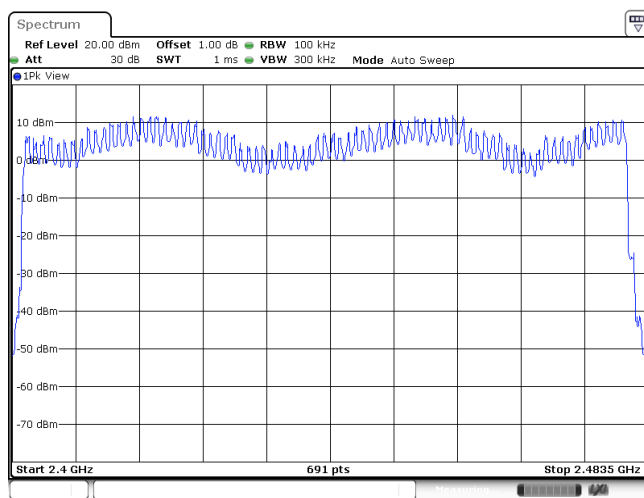
Appendix E: Hopping Channel Number

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

GFSK

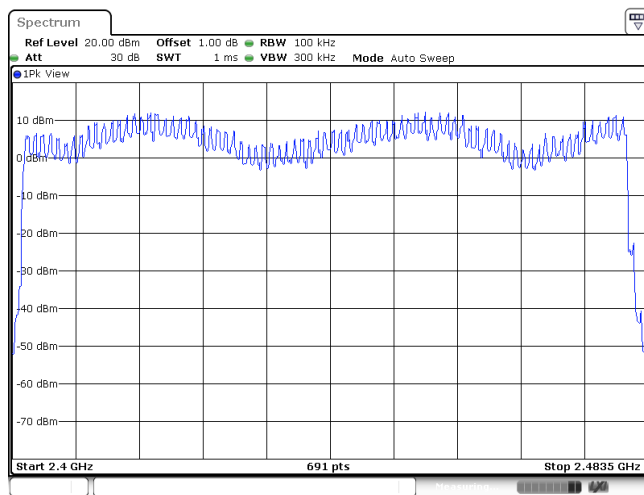


Date: 7_JUL_2021 16:38:19

 $\pi/4$ DQPSK

Date: 7_JUL_2021 16:41:13

8DPSK



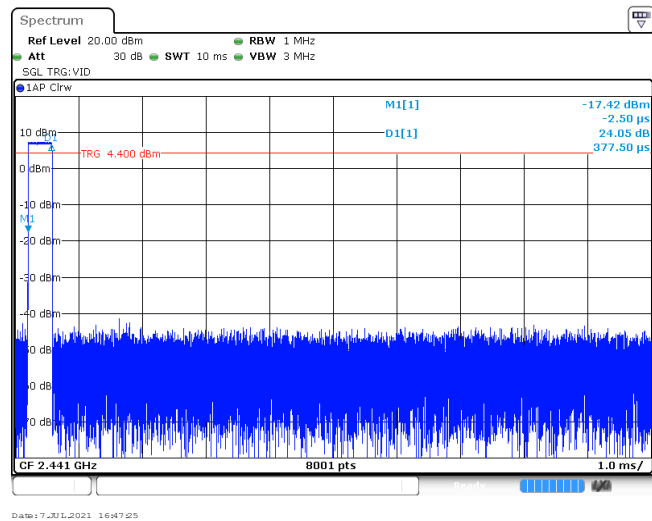
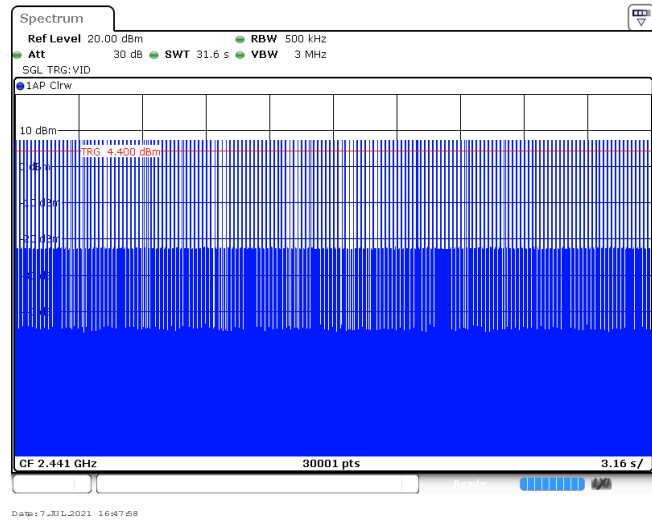
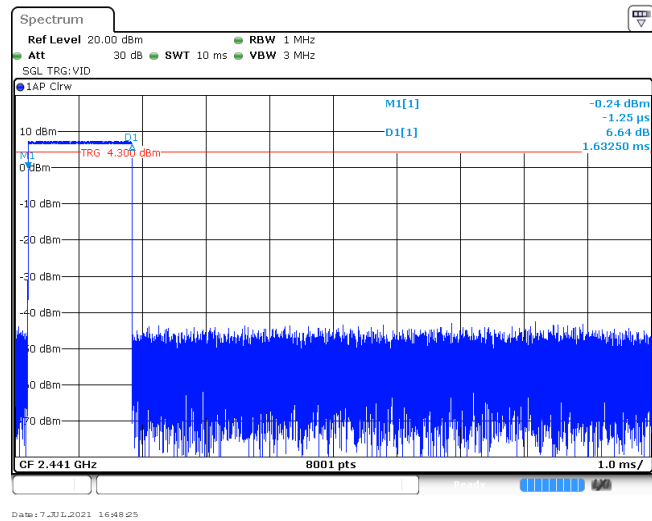
Date: 7_JUL_2021 16:44:16

Appendix F: Dwell Time

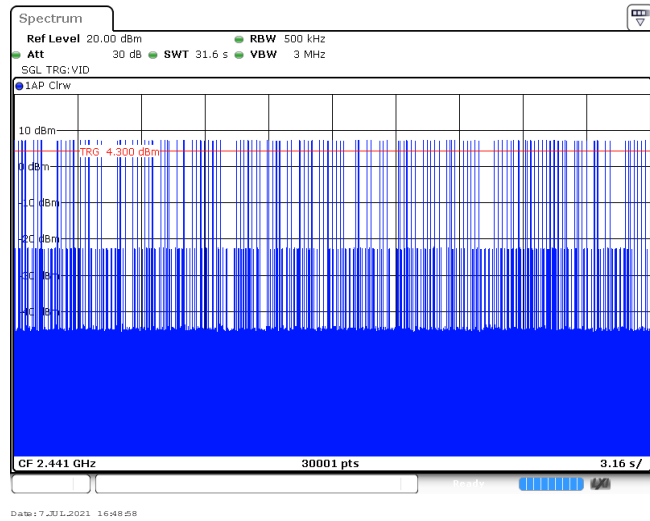
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	315	0.12	≤ 0.40	Pass
	DH3	1.63	160	0.26		
	DH5	2.88	113	0.33		
$\pi/4$ DQPSK	2DH1	0.38	315	0.12	≤ 0.40	Pass
	2DH3	1.64	159	0.26		
	2DH5	2.87	99	0.28		
8DPSK	3DH1	0.38	314	0.12	≤ 0.40	Pass
	3DH3	1.64	159	0.26		
	3DH5	2.89	111	0.32		

Modulation Type:

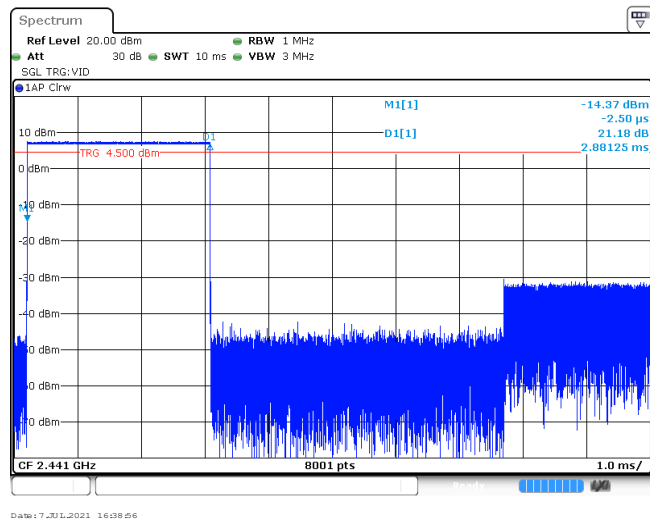
GFSK

DH1
Burst widthDH1
Burst numberDH3
Burst width

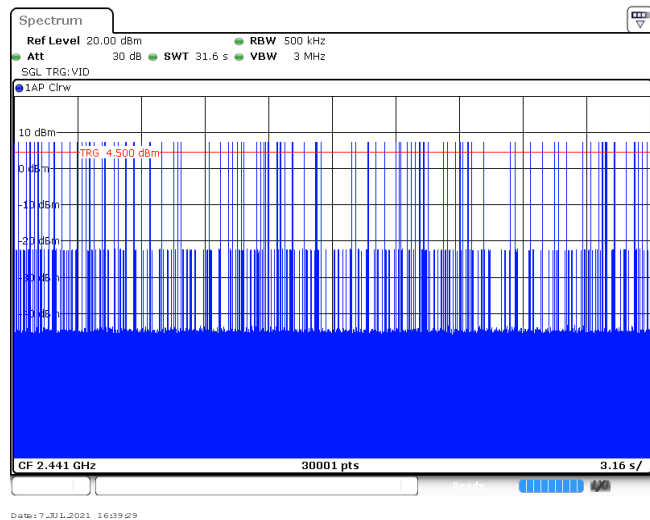
DH3
Burst number

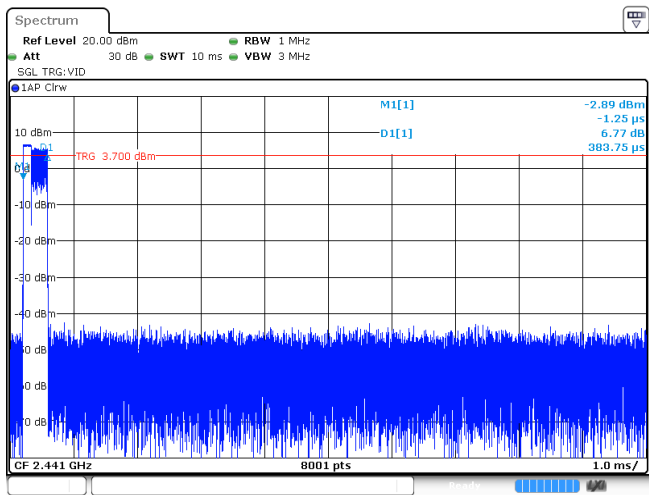
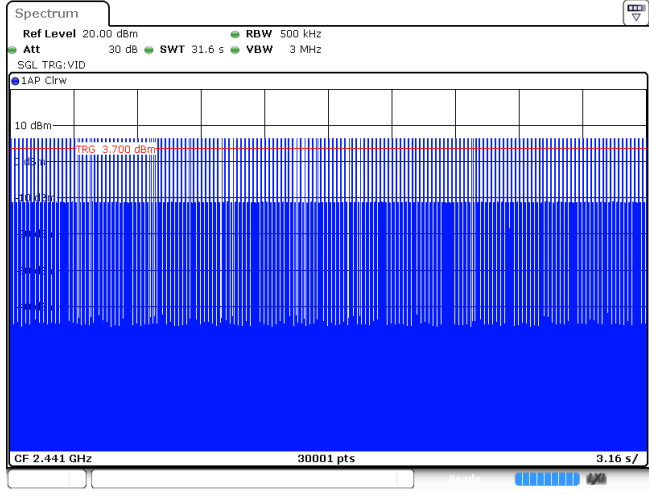
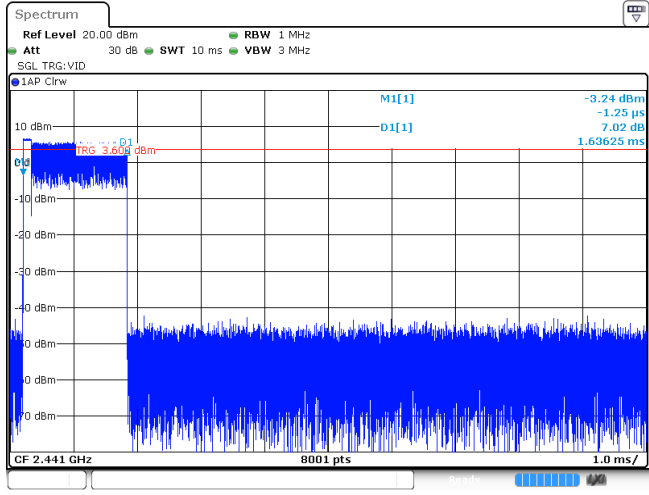


DH5
Burst width

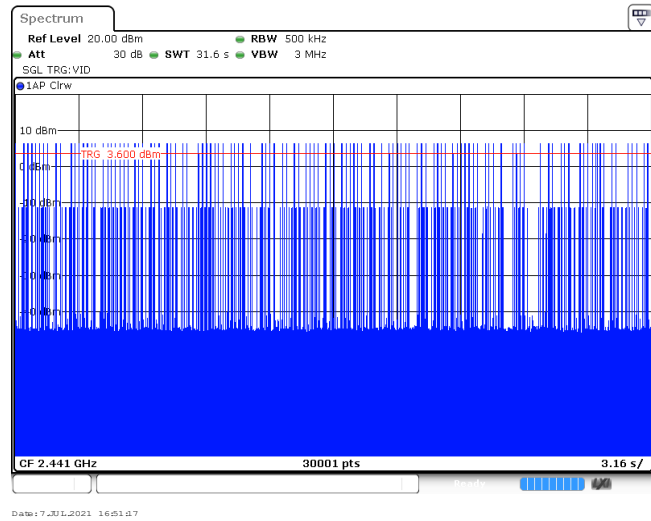


DH5
Burst number

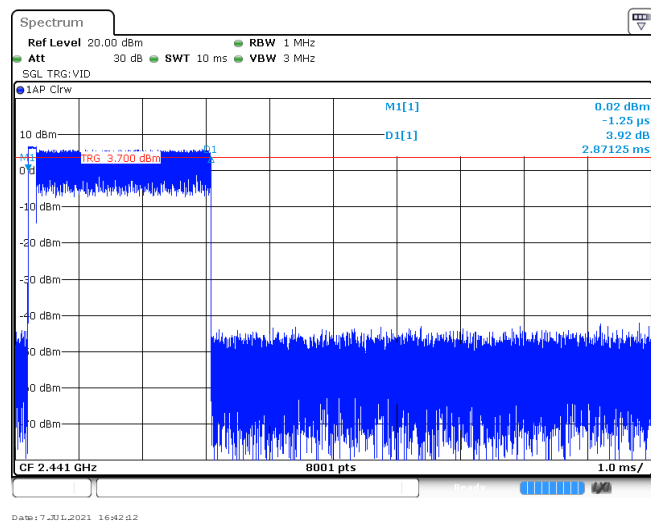


Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	 Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz SGL TRG:VID 1AP Clrw M1[1] -2.89 dBm D1[1] -1.25 μs TRG -3.700 dBm 6.77 dB 383.75 μs CF 2.441 GHz 8001 pts 1.0 ms/ Date: 7 JUL 2021 16:49:40
2DH1 Burst number	 Spectrum Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz SGL TRG:VID 1AP Clrw TRG -3.700 dBm CF 2.441 GHz 30001 pts 3.16 s/ Date: 7 JUL 2021 16:50:13
2DH3 Burst width	 Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz SGL TRG:VID 1AP Clrw M1[1] -3.24 dBm D1[1] -1.25 μs TRG -3.609 dBm 7.02 dB 1.63625 ms CF 2.441 GHz 8001 pts 1.0 ms/ Date: 7 JUL 2021 16:50:43

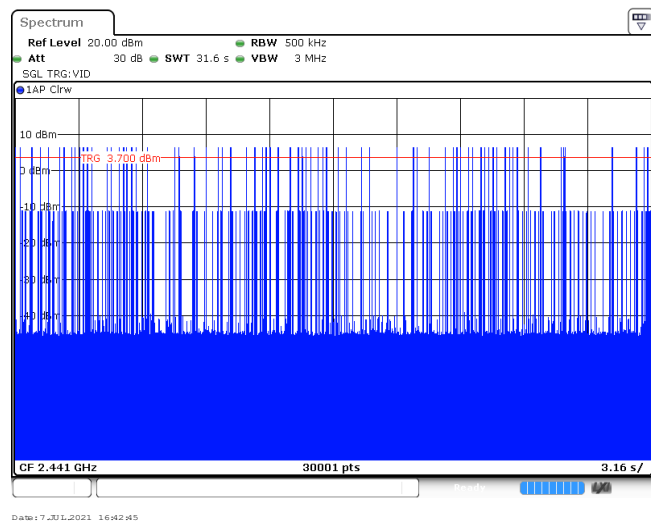
2DH3
Burst number



2DH5
Burst width

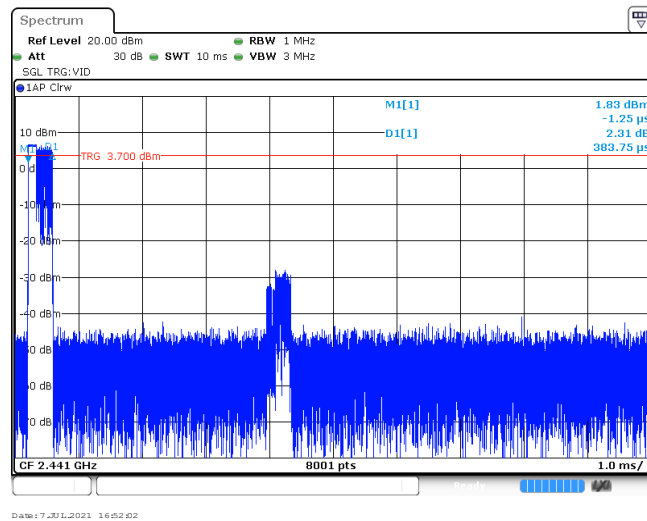
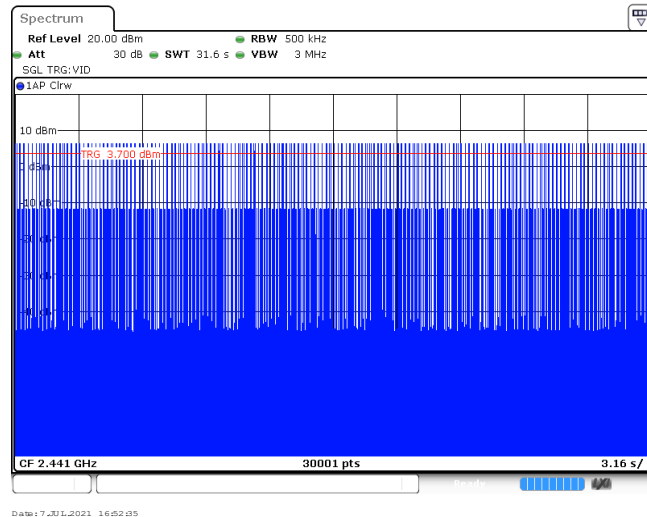
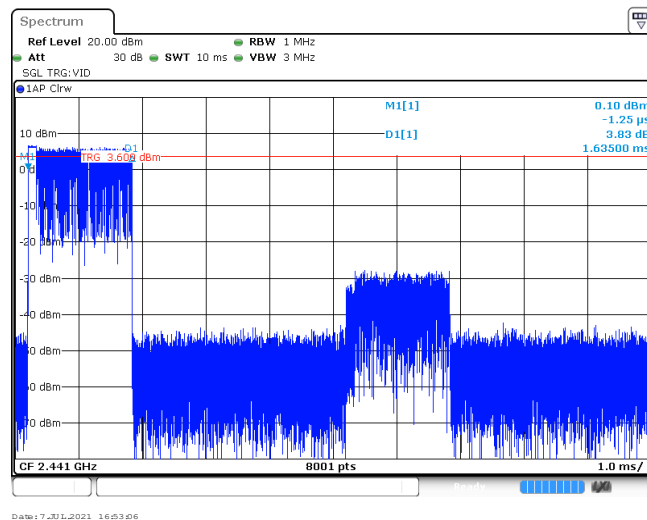


2DH5
Burst number

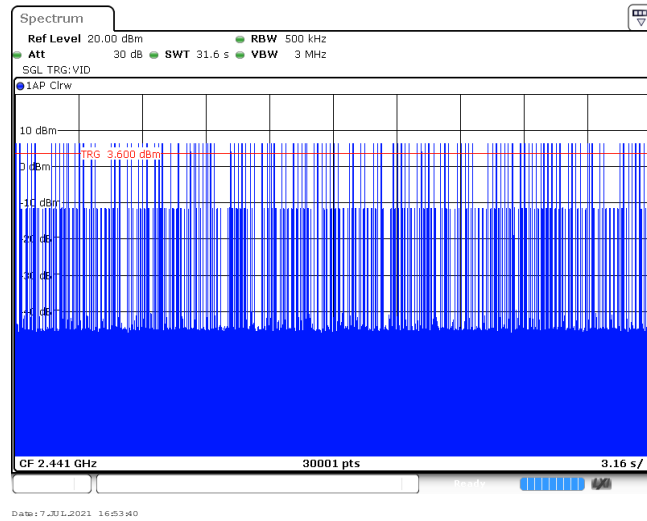


Modulation Type:

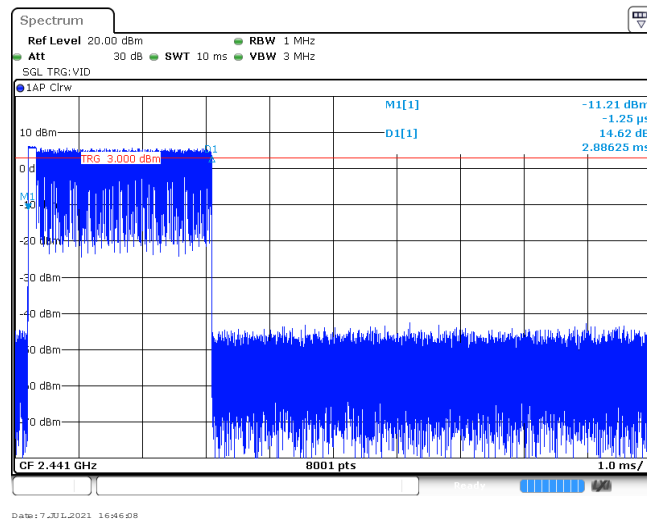
8DPSK

3DH1
Burst width3DH1
Burst number3DH3
Burst width

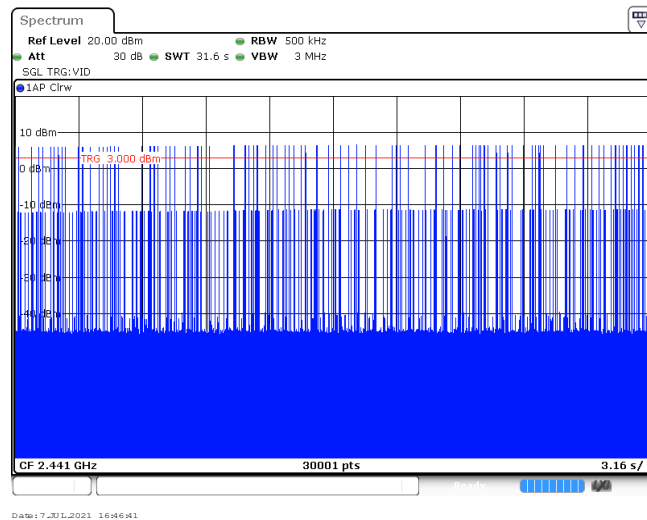
3DH3
Burst number



3DH5
Burst width



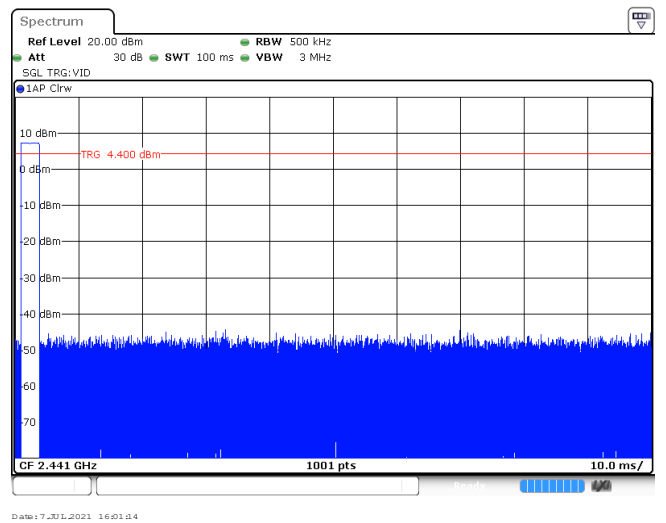
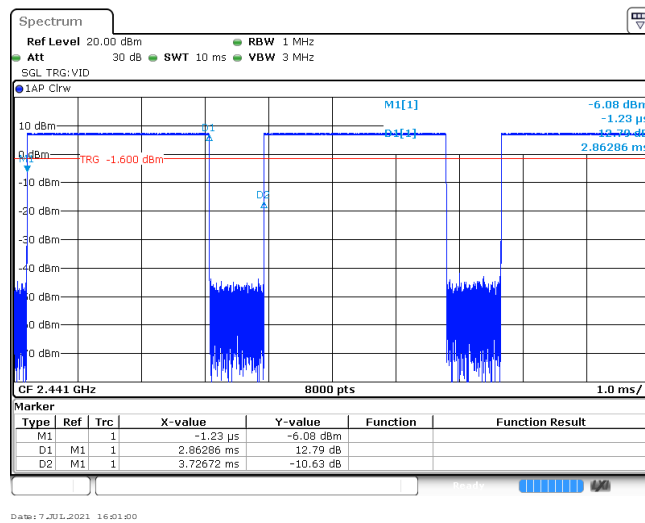
3DH5
Burst number



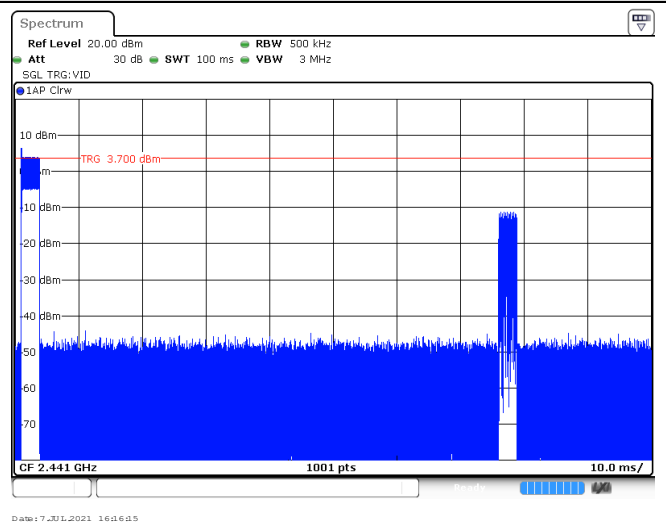
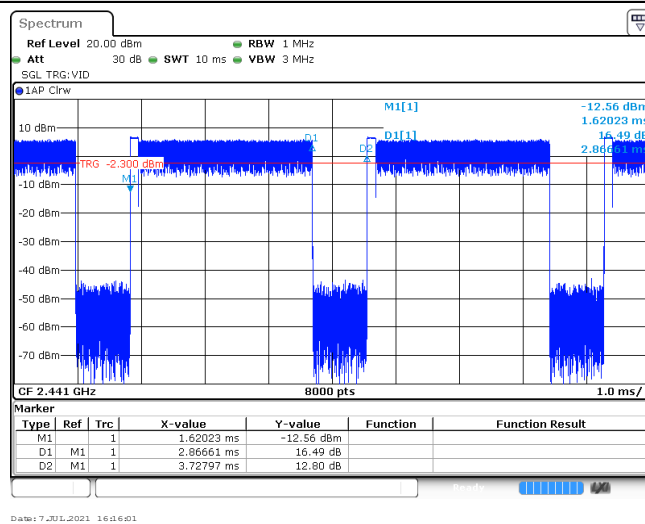
Appendix G: Duty Cycle Correction Factor (DCCF)

DCCF Calculate Formula					
$DCCF = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$					
Modulation type	Test Frequency (MHz)	$T_{\text{on time}}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	1	-30.87
$\pi/4$ DQPSK	2441	2.87	100	2	-24.82
8DPSK	2441	2.87	100	1	-30.84

GFSK

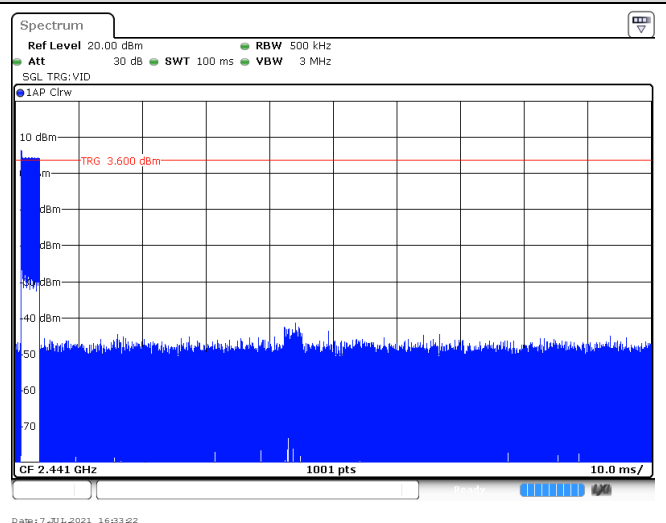
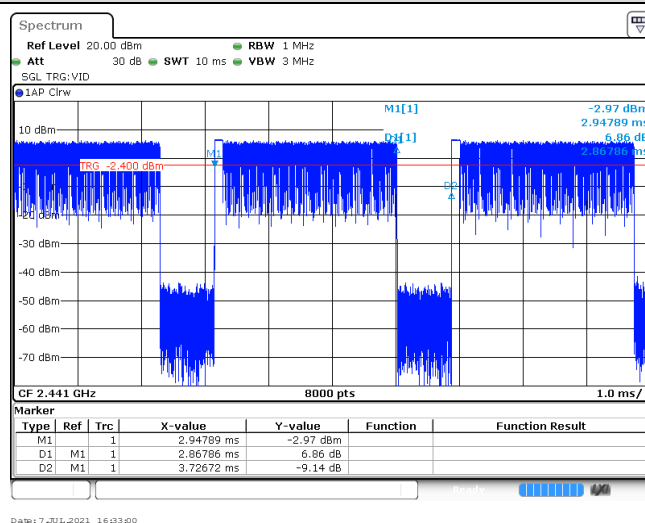
T_{on} time for single burst

Burst Quantity

 $\pi/4$ DQPSKT_{on} time for single burst

Burst Quantity

8DPSK

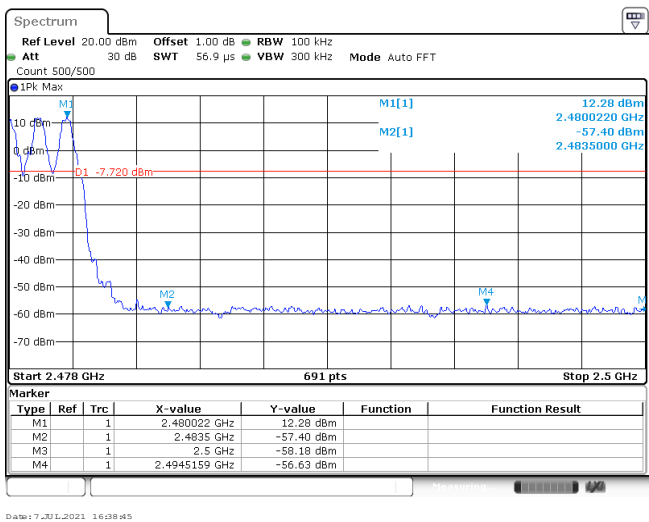
T_{on} time for single burst

Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

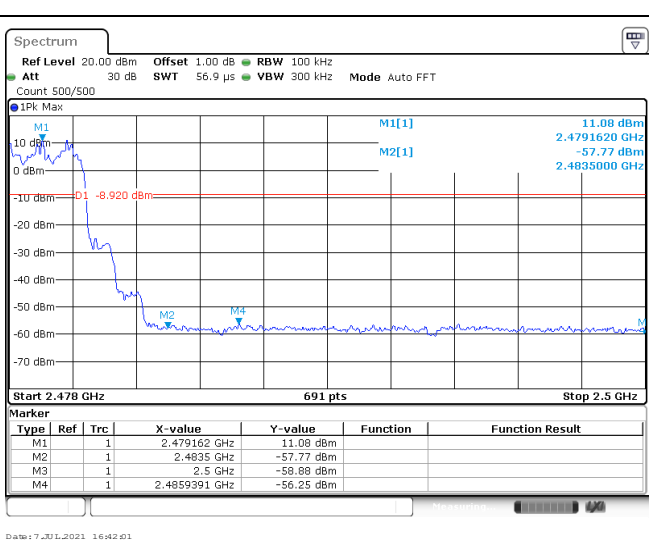
Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 1.1 ms Mode Auto Sweep RBW 100 kHz VBW 300 kHz 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] D1 -13.000 dBm M5 M3 M2 7.00 dBm 2.402040 GHz -51.83 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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>7.00 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.83 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.58 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-52.93 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.356123 GHz</td><td>-50.99 dBm</td><td></td><td></td></tr></tbody></table> Date: 7_30_L2021 15:03:03			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40204 GHz	7.00 dBm			M2	1		2.4 GHz	-51.83 dBm			M3	1		2.39 GHz	-52.58 dBm			M4	1		2.31 GHz	-52.93 dBm			M5	1		2.356123 GHz	-50.99 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40204 GHz	7.00 dBm																																									
M2	1		2.4 GHz	-51.83 dBm																																									
M3	1		2.39 GHz	-52.58 dBm																																									
M4	1		2.31 GHz	-52.93 dBm																																									
M5	1		2.356123 GHz	-50.99 dBm																																									
CH00 Hopping mode	Spectrum Ref Level 20.00 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 1.1 ms Mode Auto Sweep RBW 100 kHz VBW 300 kHz 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] D1 -12.980 dBm M5 M3 M2 7.02 dBm 2.404240 GHz -52.53 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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>2.40424 GHz</td><td>7.02 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-52.53 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.38 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-52.78 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.336848 GHz</td><td>-50.15 dBm</td><td></td><td></td></tr></tbody></table> Date: 7_30_L2021 16:08:02			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40424 GHz	7.02 dBm			M2	1		2.4 GHz	-52.53 dBm			M3	1		2.39 GHz	-52.38 dBm			M4	1		2.31 GHz	-52.78 dBm			M5	1		2.336848 GHz	-50.15 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40424 GHz	7.02 dBm																																									
M2	1		2.4 GHz	-52.53 dBm																																									
M3	1		2.39 GHz	-52.38 dBm																																									
M4	1		2.31 GHz	-52.78 dBm																																									
M5	1		2.336848 GHz	-50.15 dBm																																									
CH78 No hopping mode	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 56.9 μs Mode Auto FFT RBW 100 kHz VBW 300 kHz 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] D1 -7.460 dBm M2 M3 M4 12.54 dBm 2.4800220 GHz -56.71 dBm 2.4835000 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><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>2.480022 GHz</td><td>12.54 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-56.71 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.37 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484887 GHz</td><td>-55.35 dBm</td><td></td><td></td></tr></tbody></table> Date: 7_30_L2021 16:05:49			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480022 GHz	12.54 dBm			M2	1		2.4835 GHz	-56.71 dBm			M3	1		2.5 GHz	-59.37 dBm			M4	1		2.484887 GHz	-55.35 dBm									
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M3	1		2.5 GHz	-59.37 dBm																																									
M4	1		2.484887 GHz	-55.35 dBm																																									

CH78
Hopping mode



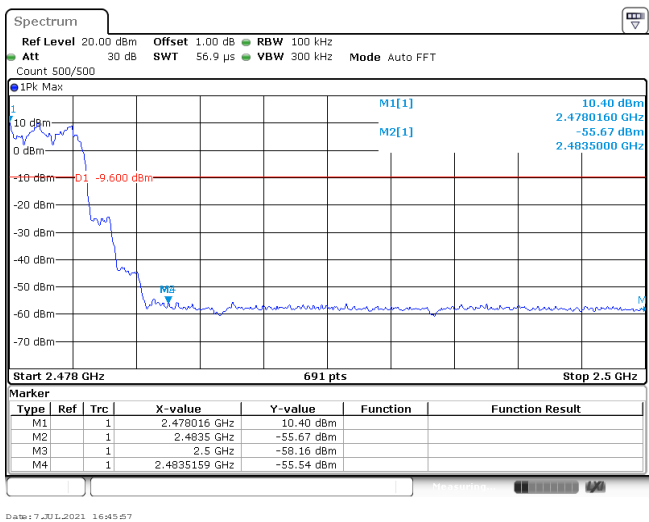
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
CH00 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 6.33 dBm 2.401910 GHz -51.29 dBm 2.400000 GHz -13.670 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td>1</td><td>2.40191 GHz</td><td>6.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-51.29 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-52.42 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-52.36 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td>1</td><td>2.391645 GHz</td><td>-49.93 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 16:08:37			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40191 GHz	6.33 dBm			M2	1	1	2.4 GHz	-51.29 dBm			M3	1	1	2.39 GHz	-52.42 dBm			M4	1	1	2.31 GHz	-52.36 dBm			M5	1	1	2.391645 GHz	-49.93 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1	1	2.40191 GHz	6.33 dBm																																									
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CH00 Hopping mode	Spectrum 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 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 5.03 dBm 2.402040 GHz -52.50 dBm 2.400000 GHz -14.970 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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>2.40204 GHz</td><td>5.03 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-52.50 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-52.75 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-52.76 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td>1</td><td>2.310275 GHz</td><td>-50.74 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 16:41:26			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40204 GHz	5.03 dBm			M2	1	1	2.4 GHz	-52.50 dBm			M3	1	1	2.39 GHz	-52.75 dBm			M4	1	1	2.31 GHz	-52.76 dBm			M5	1	1	2.310275 GHz	-50.74 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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CH78 No hopping mode	Spectrum 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 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 M4 12.54 dBm 2.4798310 GHz -55.08 dBm 2.4835000 GHz -7.460 dBm Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><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>2.479831 GHz</td><td>12.54 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>2.4835 GHz</td><td>-55.08 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td>1</td><td>2.5 GHz</td><td>-59.61 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td>1</td><td>2.4841536 GHz</td><td>-55.96 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 16:23:07			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.479831 GHz	12.54 dBm			M2	1	1	2.4835 GHz	-55.08 dBm			M3	1	1	2.5 GHz	-59.61 dBm			M4	1	1	2.4841536 GHz	-55.96 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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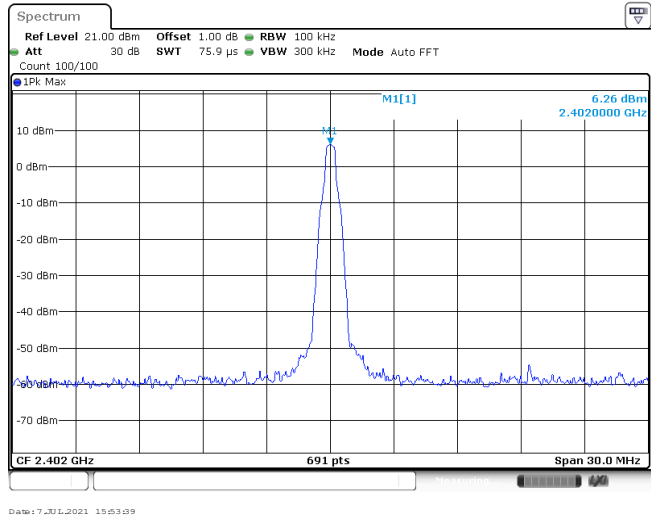
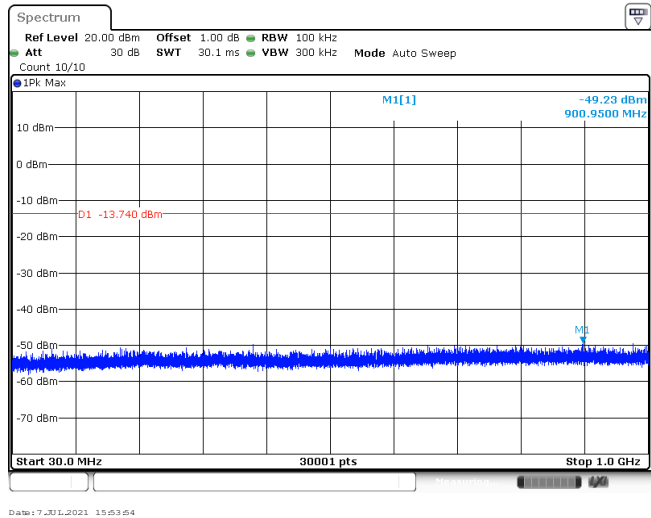
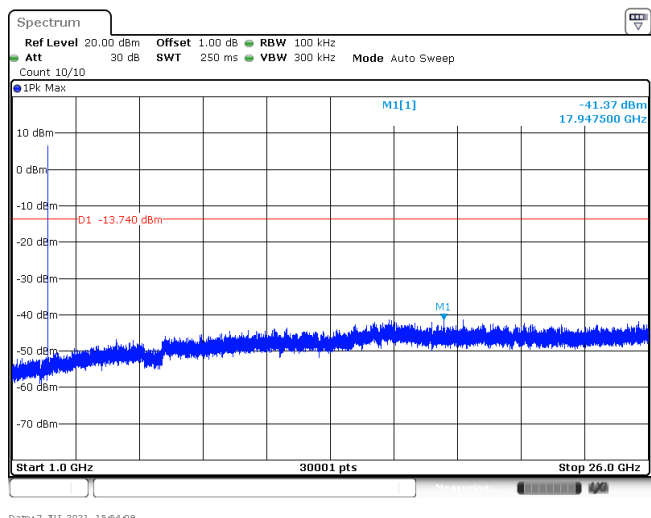
CH78
Hopping mode



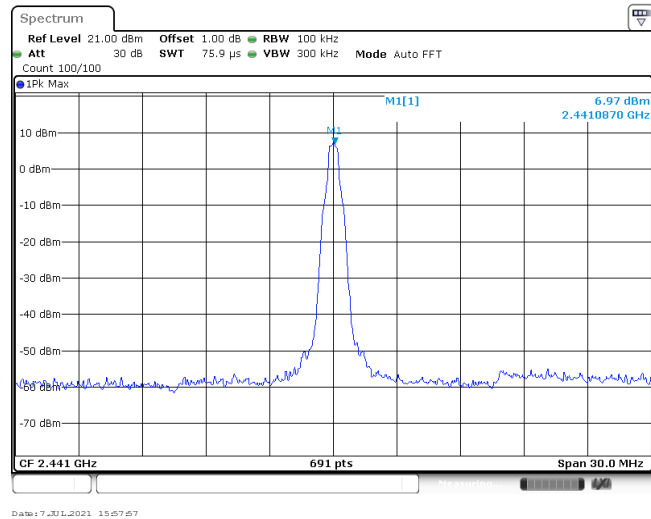
Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M5 M6 6.26 dBm 2.402180 GHz -51.59 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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>6.26 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-51.59 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-53.17 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-52.14 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td>1</td><td>2.391232 GHz</td><td>-50.17 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 16:25:52			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40218 GHz	6.26 dBm			M2	1	1	2.4 GHz	-51.59 dBm			M3	1	1	2.39 GHz	-53.17 dBm			M4	1	1	2.31 GHz	-52.14 dBm			M5	1	1	2.391232 GHz	-50.17 dBm		
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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CH78 No hopping mode	Spectrum 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 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 M4 12.48 dBm 2.4801490 GHz -55.46 dBm 2.4835000 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><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>2.480149 GHz</td><td>12.48 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td>1</td><td>2.4835 GHz</td><td>-55.46 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td>1</td><td>2.5 GHz</td><td>-59.27 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td>1</td><td>2.4836435 GHz</td><td>-55.21 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 16:36:03			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.480149 GHz	12.48 dBm			M2	1	1	2.4835 GHz	-55.46 dBm			M3	1	1	2.5 GHz	-59.27 dBm			M4	1	1	2.4836435 GHz	-55.21 dBm									
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M4	1	1	2.4836435 GHz	-55.21 dBm																																									

CH78
Hoppig mode

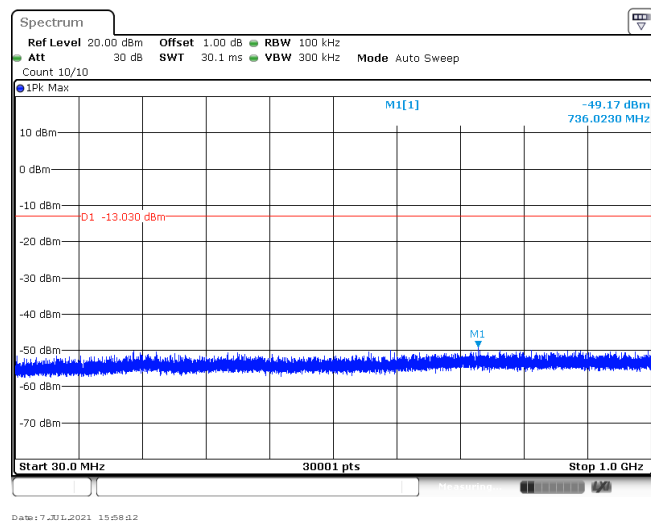


Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level	 Spectrum plot for CH00 Reference level. The plot shows a single peak at 2.402000 GHz with a power of 6.26 dBm. The y-axis ranges from -70 dBm to 10 dBm. The x-axis ranges from 2.402 GHz to 2.402 GHz. The plot is titled 'Spectrum' and includes parameters: 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. The peak is labeled M1[1].		
CH00 30MHz~1000MHz	 Spectrum plot for CH00 30MHz~1000MHz. The plot shows a noise floor at -49.23 dBm. The y-axis ranges from -70 dBm to 10 dBm. The x-axis ranges from 30.0 MHz to 1.0 GHz. The plot is titled 'Spectrum' and includes parameters: 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. The peak is labeled M1[1].		
CH00 1GHz~26GHz	 Spectrum plot for CH00 1GHz~26GHz. The plot shows a noise floor at -41.37 dBm. The y-axis ranges from -70 dBm to 10 dBm. The x-axis ranges from 1.0 GHz to 26.0 GHz. The plot is titled 'Spectrum' and includes parameters: 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. The peak is labeled M1[1].		

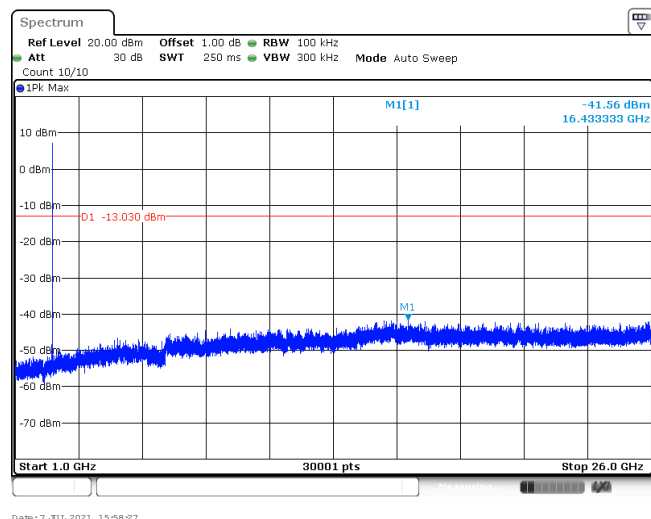
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Reference level



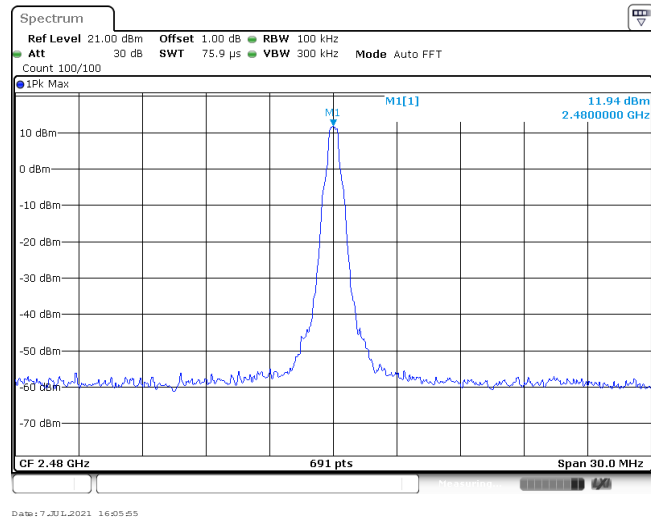
CH39
30MHz~1000MHz



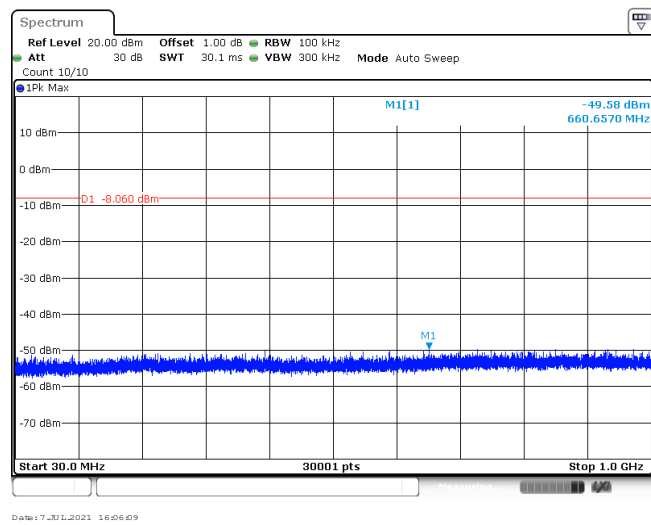
CH39
1GHz~26GHz



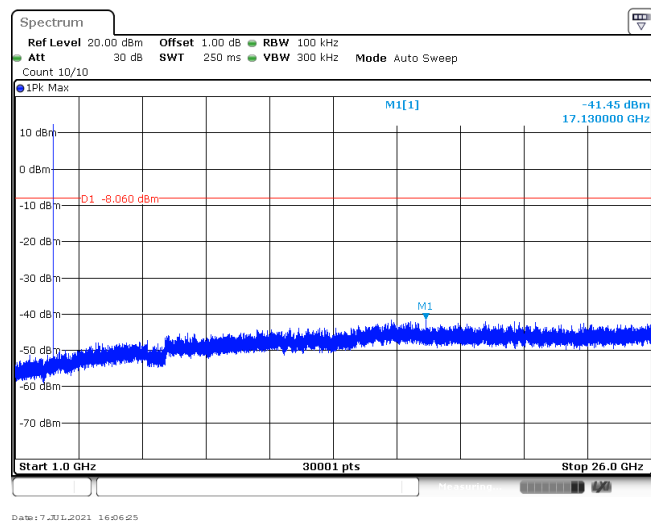
CH78
Reference level



CH78
30MHz~1000MHz

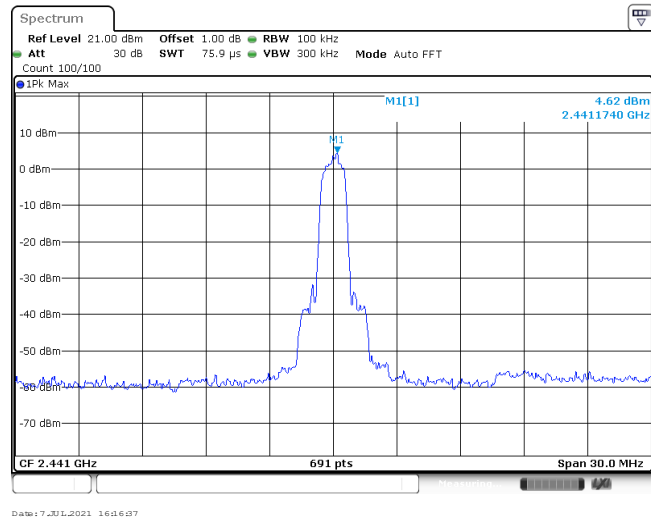


CH78
1GHz~26GHz

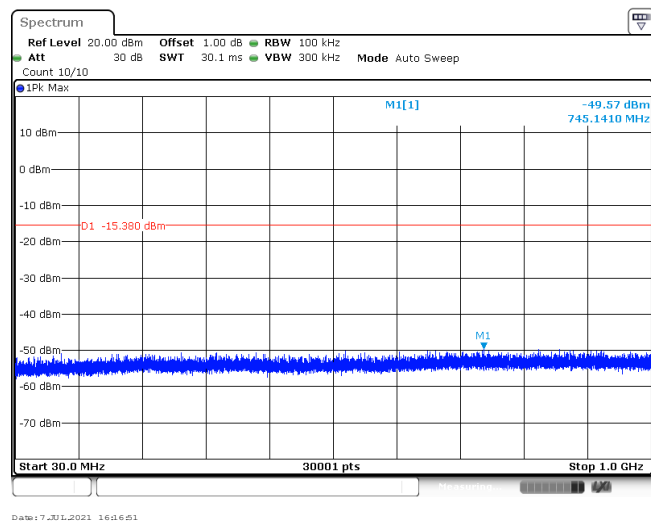


Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 4.80 dBm 2.4018260 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 691 pts Span 30.0 MHz Date: 7 JUL 2021 16:08:42		
CH00 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -49.28 dBm 750.8640 MHz D1 -15.200 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 7 JUL 2021 16:08:57		
CH00 1GHz~26GHz	Spectrum 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 1Pk Max M1[1] -41.63 dBm 15.170833 GHz D1 -15.200 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 7 JUL 2021 16:09:12		

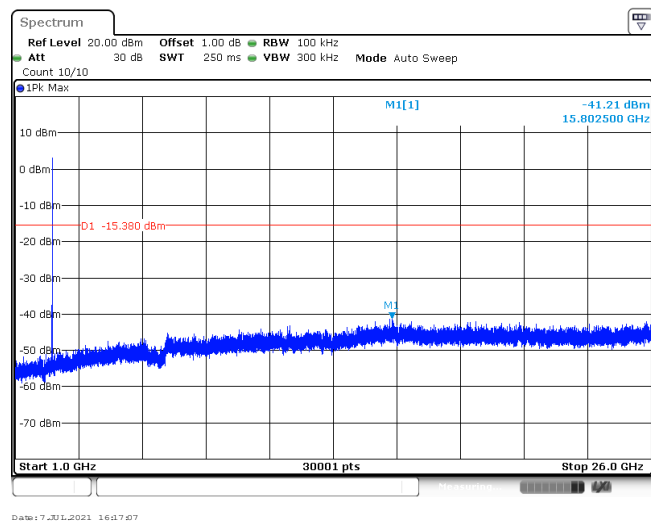
CH39
Reference level



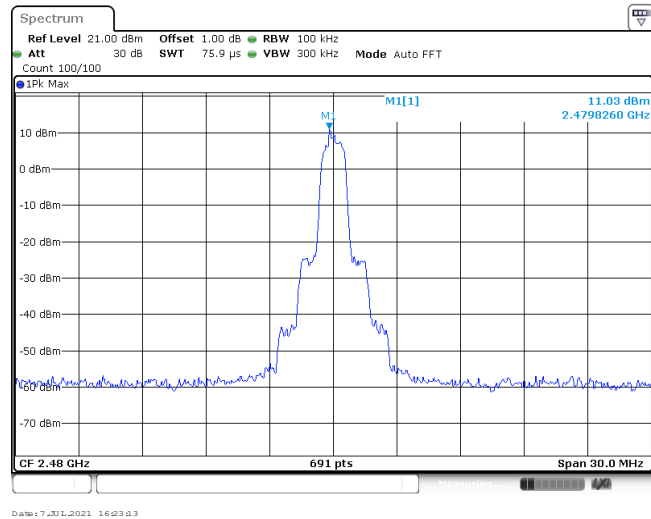
CH39
30MHz~1000MHz



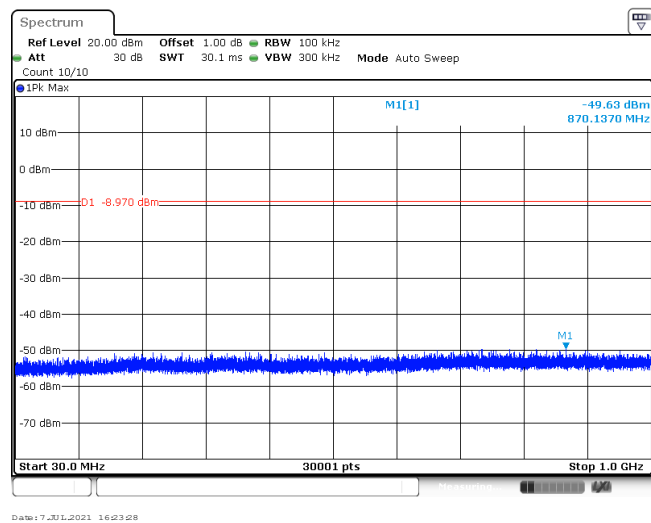
CH39
1GHz~26GHz



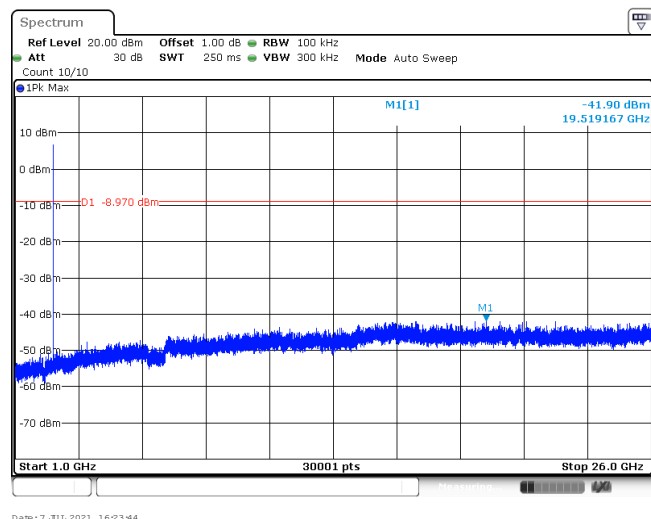
CH78
Reference level

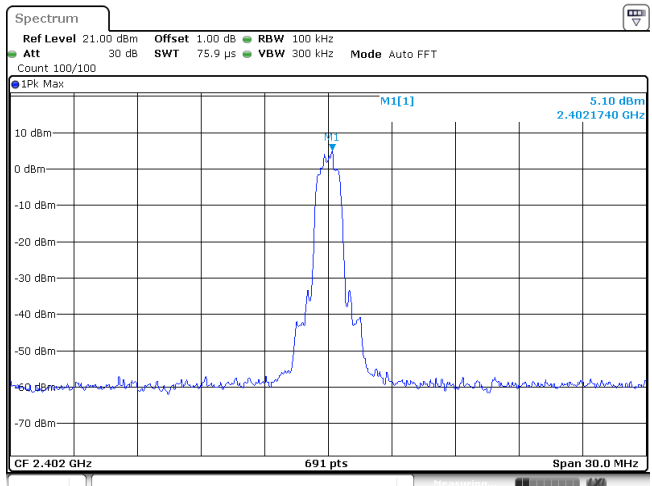
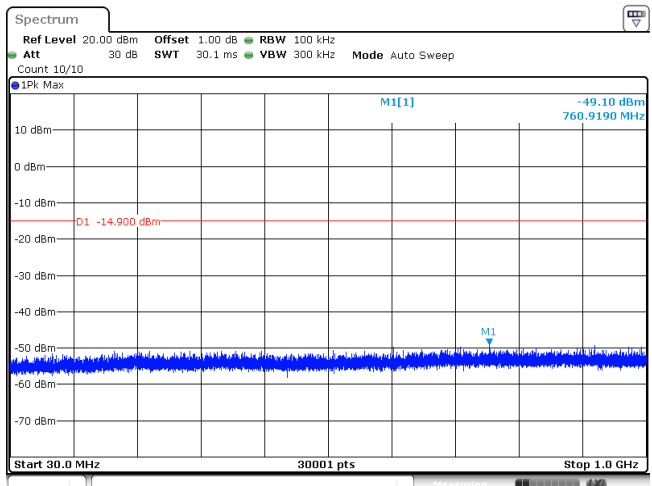
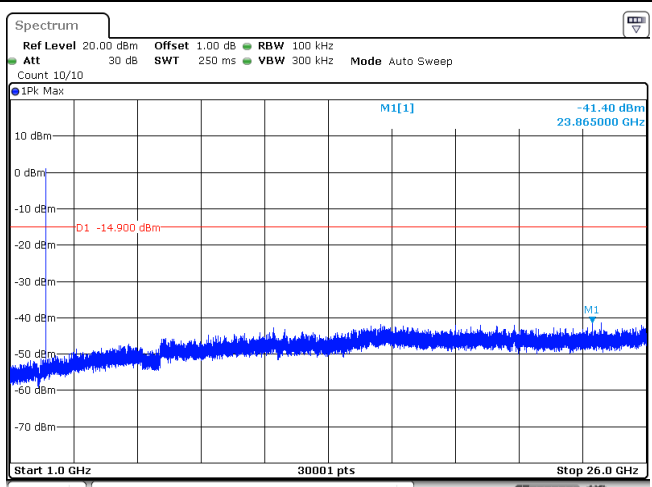


CH78
30MHz~1000MHz

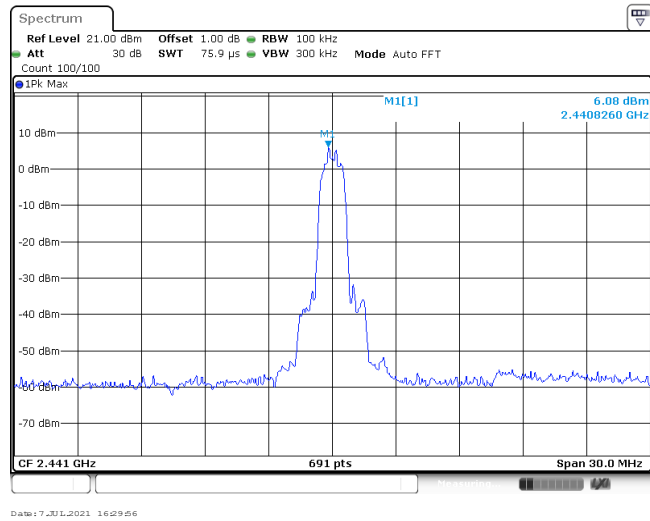


CH78
1GHz~26GHz

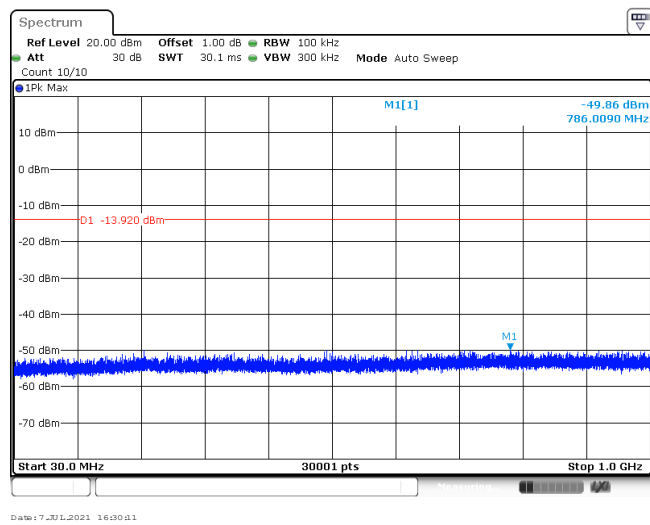


Test Item:	Spurious Emission	Modulation type:	8DPSK
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CH00 30MHz~1000MHz	 Date: 7 JUL 2021 16:26:12		
CH00 1GHz~26GHz	 Date: 7 JUL 2021 16:26:28		

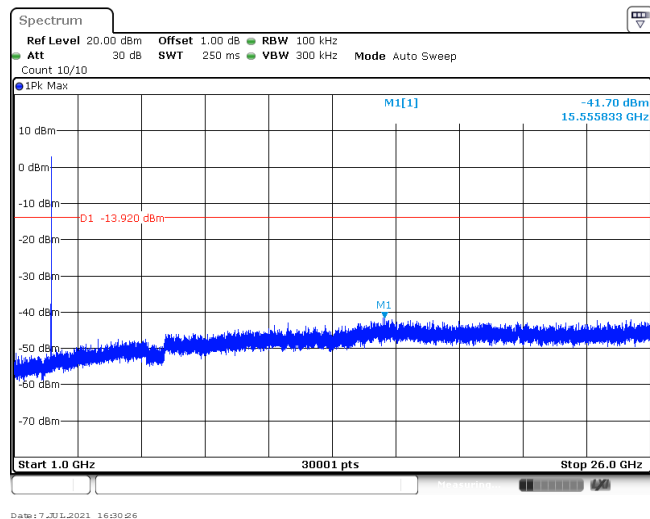
CH39
Reference level



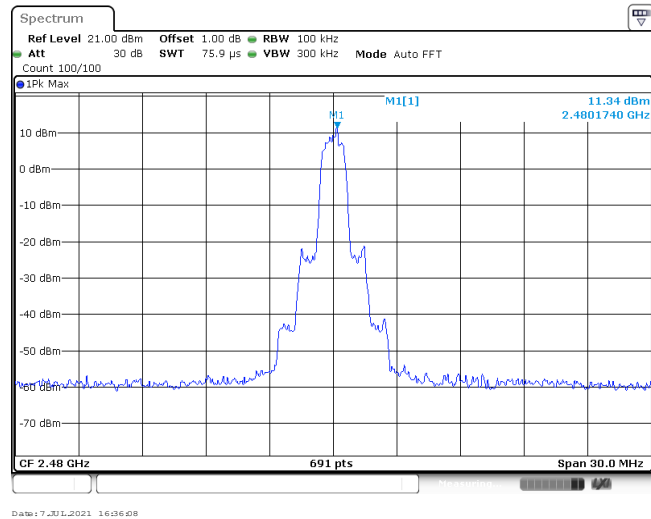
CH39
30MHz~1000MHz



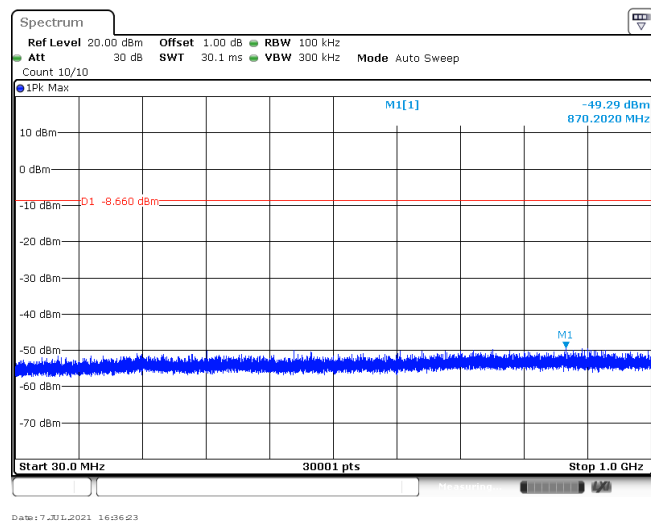
CH39
1GHz~26GHz



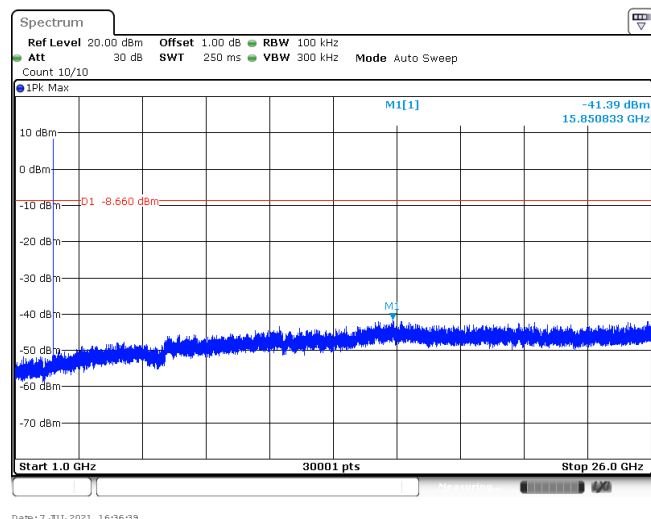
CH78
Reference level



CH78
30MHz~1000MHz



CH78
1GHz~26GHz



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