

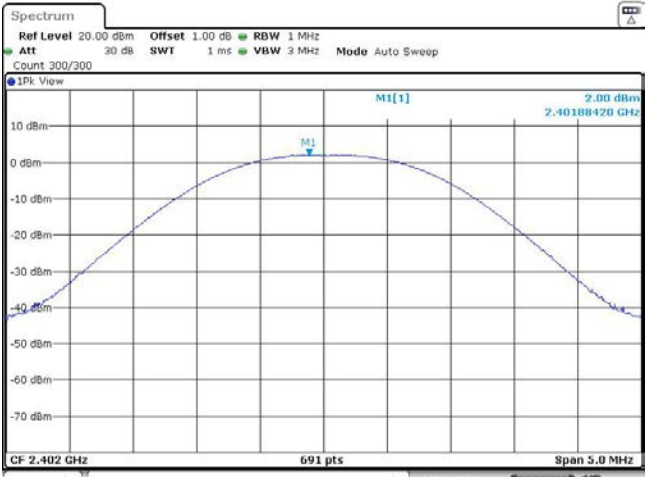
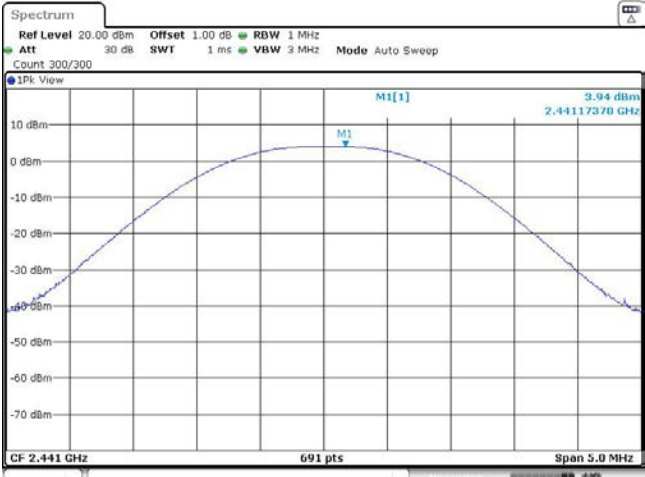
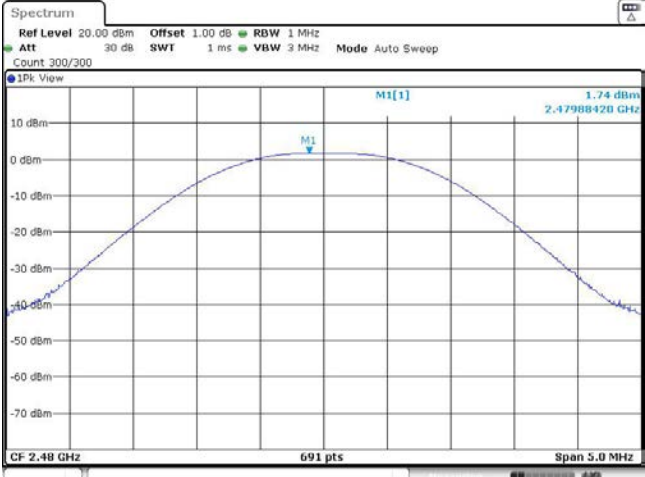
APPENDIX REPORT

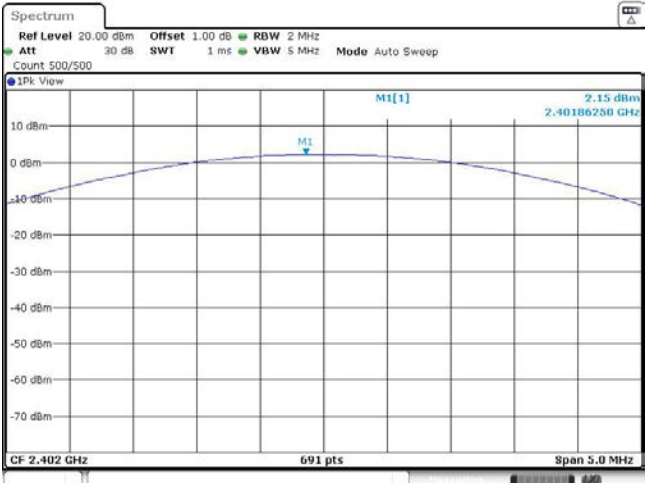
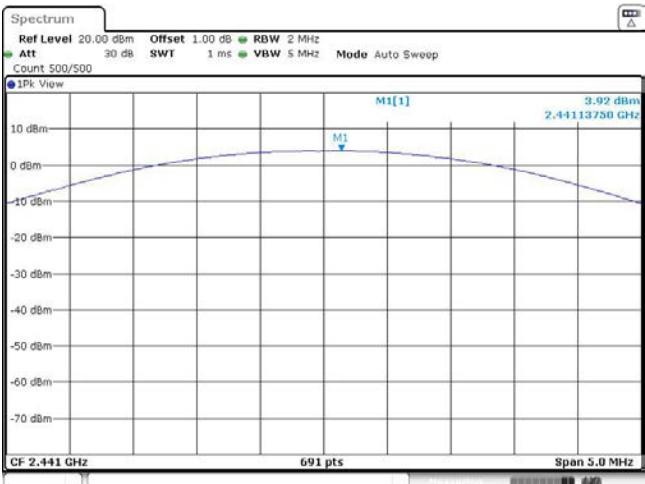
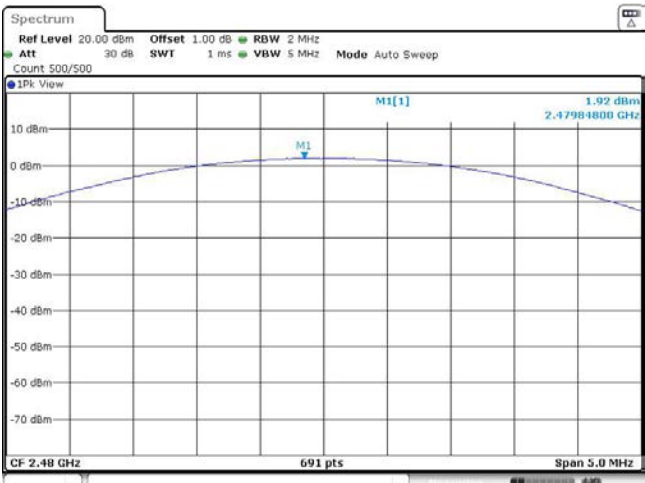
Project No.	SHT2205032401EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22050324003	Model No.	Tronik 12
Start test date	2022-05-26	Finish date	2022-05-26
Temperature	24.5℃	Humidity	37%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhuo

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	2.00	1.98	≤ 30.00	Pass
	39	3.94	3.86		
	78	1.74	1.71		
$\pi/4$ DQPSK	00	2.15	1.71	≤ 21.00	Pass
	39	3.92	3.35		
	78	1.92	1.41		
8DPSK	00	2.24	1.65	≤ 21.00	Pass
	39	4.15	3.43		
	78	2.09	1.43		

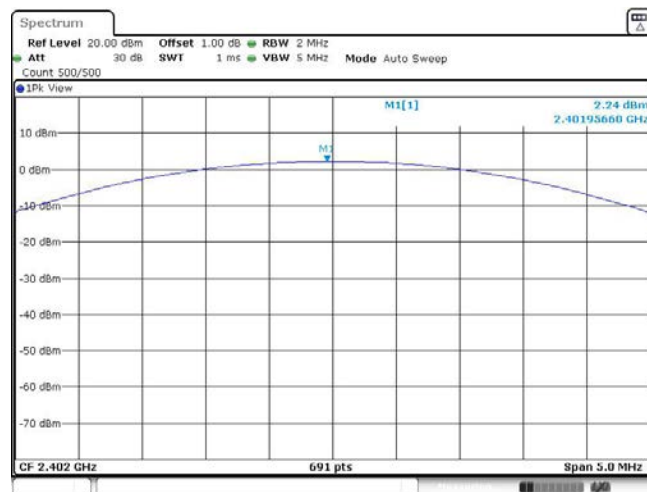
Modulation Type:	GFSK
CH00	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] 2.00 dBm 2.40188420 GHz CF 2.402 GHz 691 pts Span 5.0 MHz Date: 26 MAY 2022 14:16:06
CH39	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] 3.94 dBm 2.44117378 GHz CF 2.441 GHz 691 pts Span 5.0 MHz Date: 26 MAY 2022 14:20:54
CH78	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] 1.74 dBm 2.47988420 GHz CF 2.48 GHz 691 pts Span 5.0 MHz Date: 26 MAY 2022 14:19:03

Modulation Type:	$\pi/4$ DQPSK
CH00	 Spectrum plot for CH00. The plot shows a signal centered at 2.40186230 GHz with a peak level of 2.15 dBm. The carrier frequency (CF) is 2.402 GHz. The plot includes a grid and a span of 5.0 MHz. The date is 26 MAY 2022 14:29:00.
CH39	 Spectrum plot for CH39. The plot shows a signal centered at 2.44113750 GHz with a peak level of 3.92 dBm. The carrier frequency (CF) is 2.441 GHz. The plot includes a grid and a span of 5.0 MHz. The date is 26 MAY 2022 14:45:42.
CH78	 Spectrum plot for CH78. The plot shows a signal centered at 2.47984800 GHz with a peak level of 1.92 dBm. The carrier frequency (CF) is 2.48 GHz. The plot includes a grid and a span of 5.0 MHz. The date is 26 MAY 2022 14:31:07.

Modulation Type:

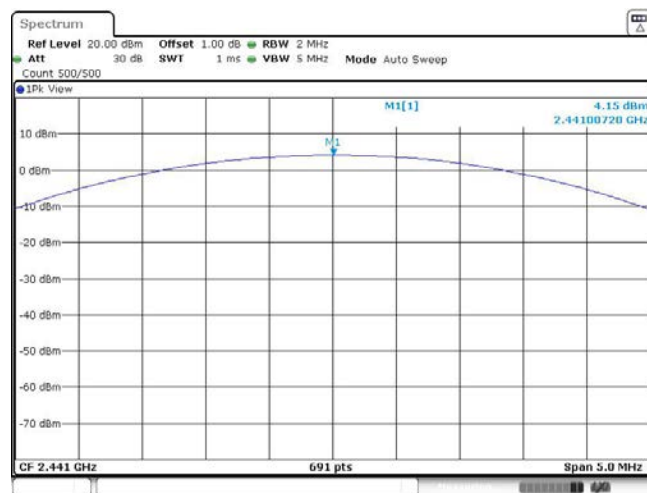
8DPSK

CH00



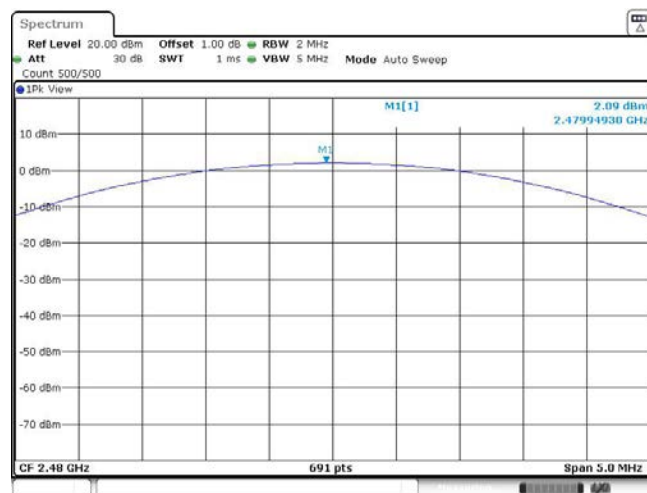
Date: 26 MAY 2022 14:52:17

CH39



Date: 26 MAY 2022 14:56:17

CH78



Date: 26 MAY 2022 14:54:15

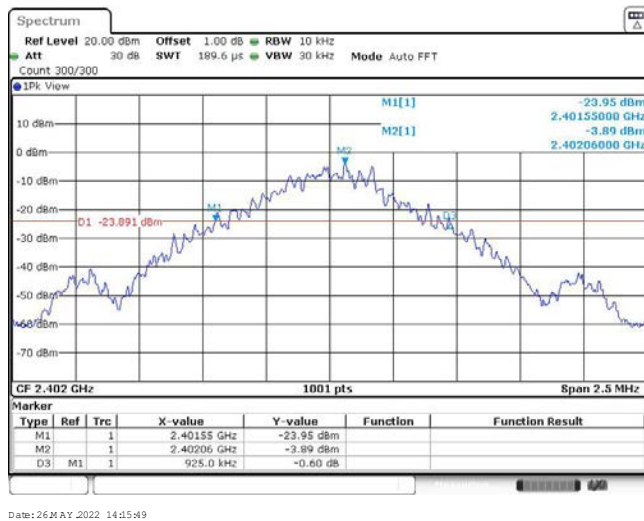
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	925.00	-	Pass
	39	925.00		
	78	927.50		
$\pi/4$ DQPSK	00	1312.50	-	Pass
	39	1302.50		
	78	1305.00		
8DPSK	00	1297.50	-	Pass
	39	1292.50		
	78	1290.00		

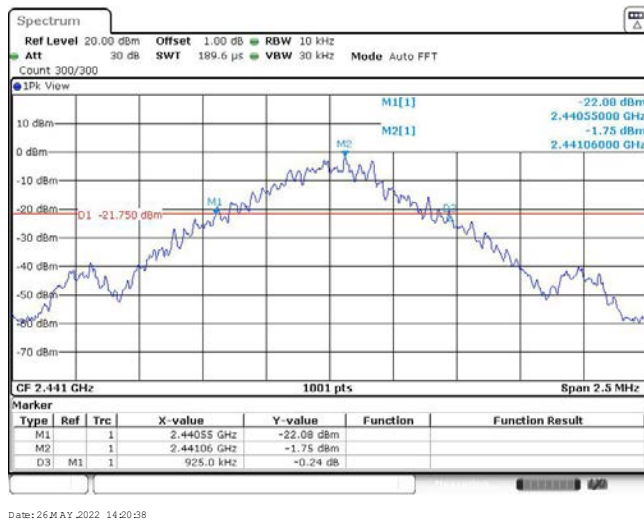
Modulation Type:

GFSK

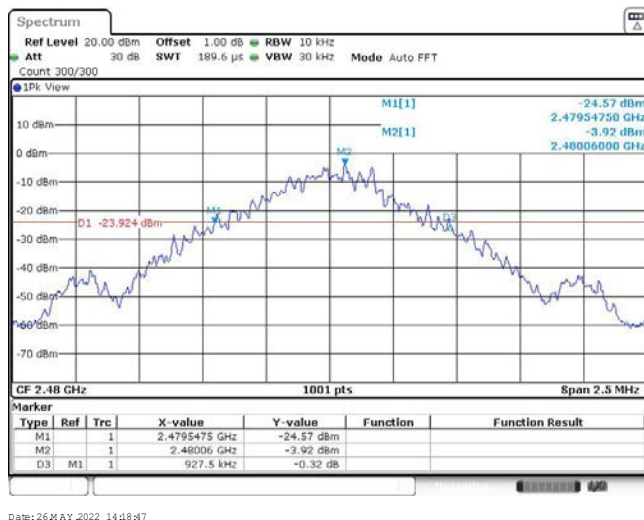
CH00



CH39



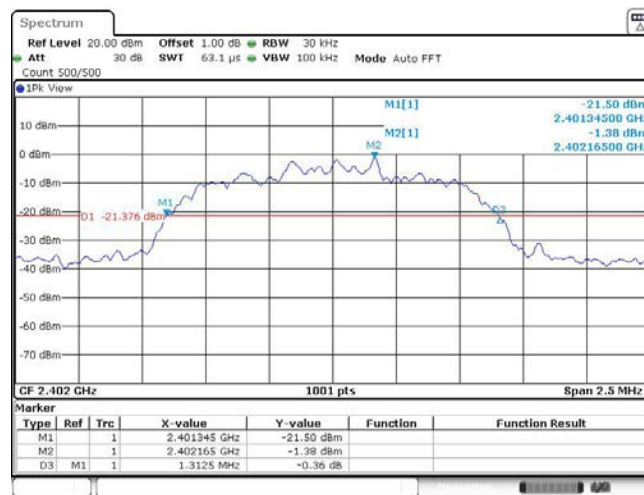
CH78



Modulation Type:

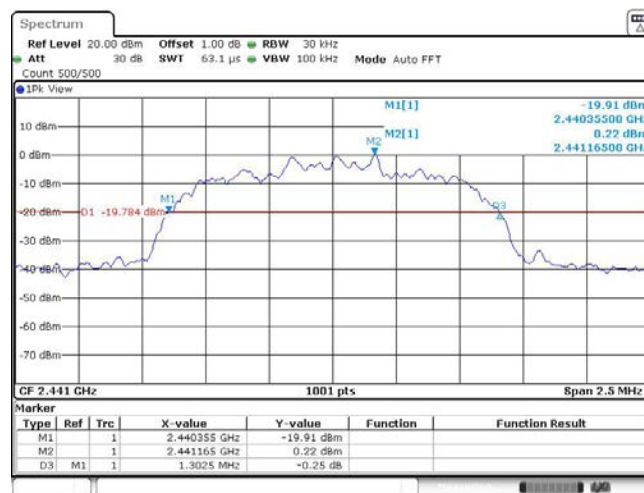
 $\pi/4$ DQPSK

CH00



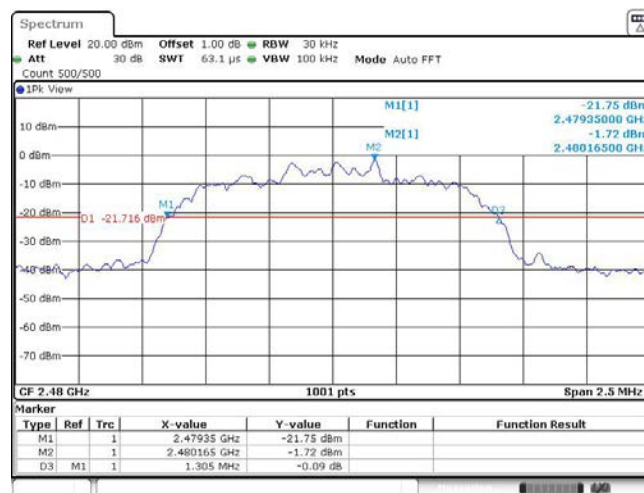
Date: 26 MAY 2022 14:28:44

CH39



Date: 26 MAY 2022 14:45:27

CH78

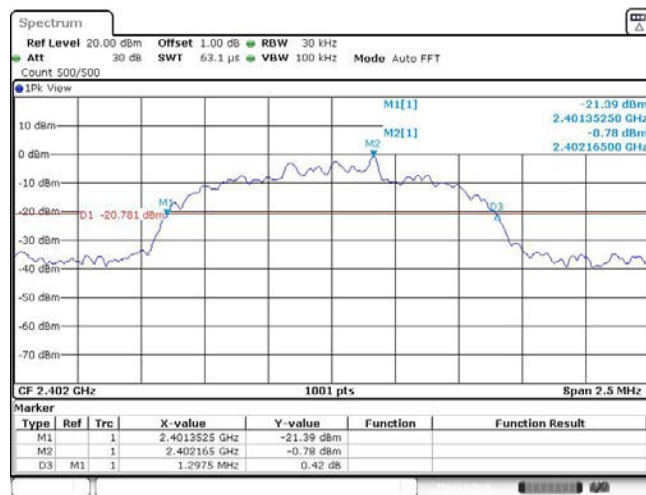


Date: 26 MAY 2022 14:30:52

Modulation Type:

8DPSK

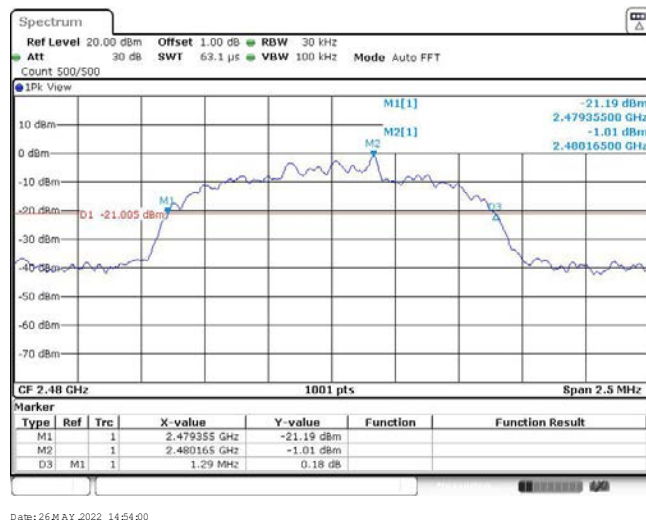
CH00



CH39



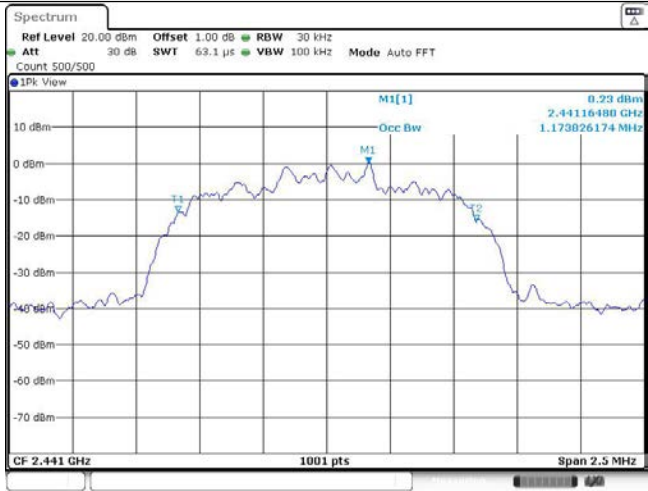
CH78

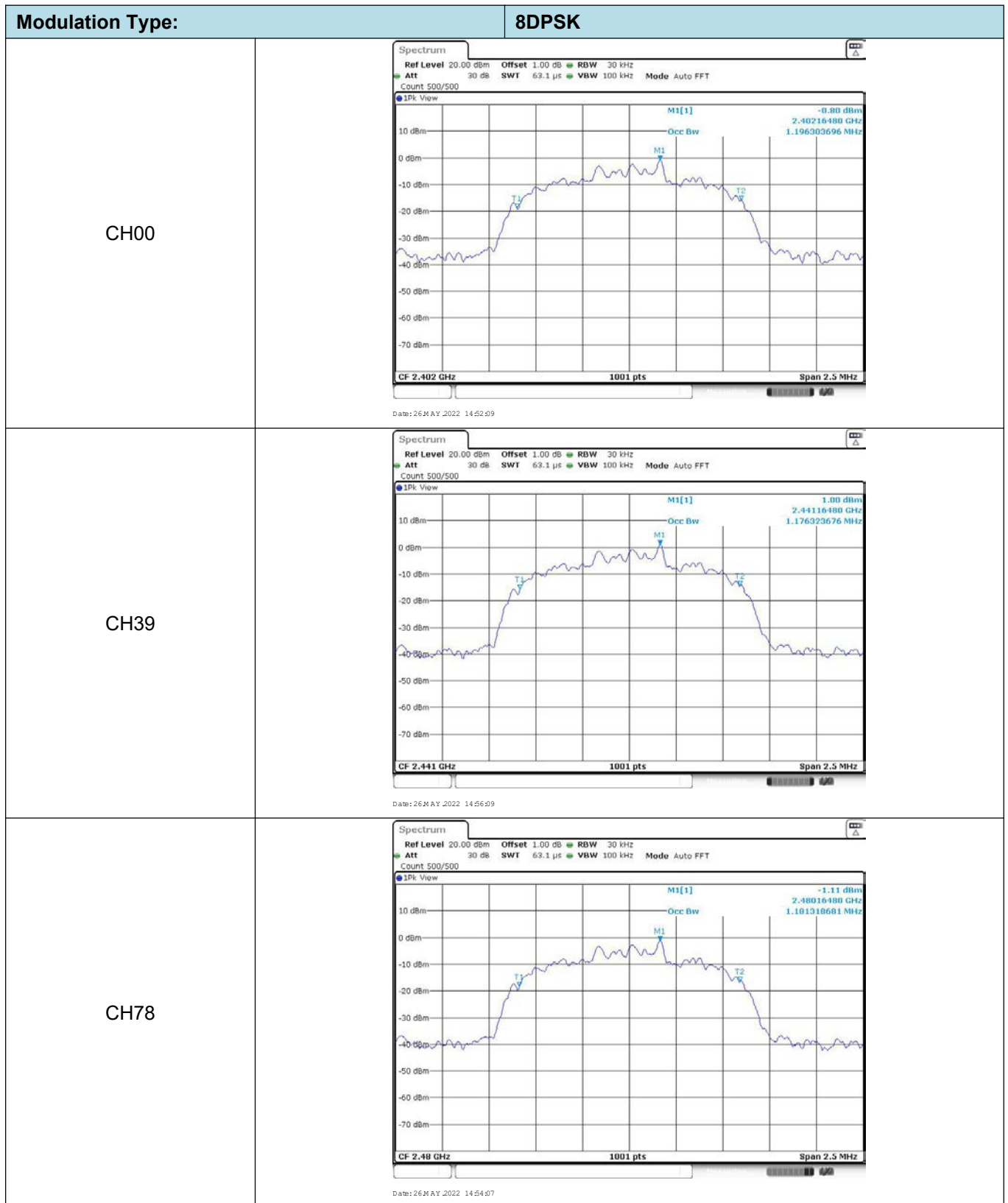


Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.89	-	Pass
	39	0.90		
	78	0.90		
$\pi/4$ DQPSK	00	1.19	-	Pass
	39	1.17		
	78	1.18		
8DPSK	00	1.20	-	Pass
	39	1.18		
	78	1.18		

Modulation Type:		GFSK
CH00	Spectrum 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 300/300 1Pk View M1[1] 0.17 dBm 2.40216480 GHz 894.105894106 kHz M1 Occ Bw T1 T2 CF 2.402 GHz 1001 pts Span 2.5 MHz Date: 26 MAY 2022 14:15:57	
CH39	Spectrum 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 300/300 1Pk View M1[1] 2.22 dBm 2.441116480 GHz 899.100899101 kHz M1 Occ Bw T1 T2 CF 2.441 GHz 1001 pts Span 2.5 MHz Date: 26 MAY 2022 14:20:46	
CH78	Spectrum 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 300/300 1Pk View M1[1] 0.03 dBm 2.48016230 GHz 899.100899101 kHz M1 Occ Bw T1 T2 CF 2.48 GHz 1001 pts Span 2.5 MHz Date: 26 MAY 2022 14:18:55	

Modulation Type:		$\pi/4$ DQPSK
CH00	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 63.1 μs VBW 100 kHz Mode Auto FFT Count 500/500 1Pk View M1[1] -1.42 dBm 2.40216480 GHz 1.106313686 MHz CF 2.402 GHz 1001 pts Span 2.5 MHz Date: 26 MAY 2022 14:28:52	
CH39	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 63.1 μs VBW 100 kHz Mode Auto FFT Count 500/500 1Pk View M1[1] 0.23 dBm 2.44116480 GHz 1.173026174 MHz CF 2.441 GHz 1001 pts Span 2.5 MHz Date: 26 MAY 2022 14:45:34	
CH78	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 63.1 μs VBW 100 kHz Mode Auto FFT Count 500/500 1Pk View M1[1] -1.75 dBm 2.48016480 GHz 1.176323676 MHz CF 2.480 GHz 1001 pts Span 2.5 MHz Date: 26 MAY 2022 14:30:59	



Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥927.50	Pass
π/4DQPSK	39	1.00	≥875.00	Pass
8DPSK	39	1.00	≥865.00	Pass

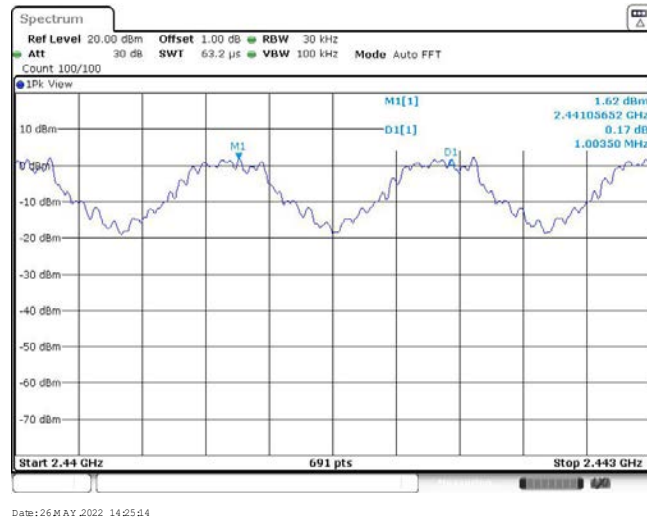
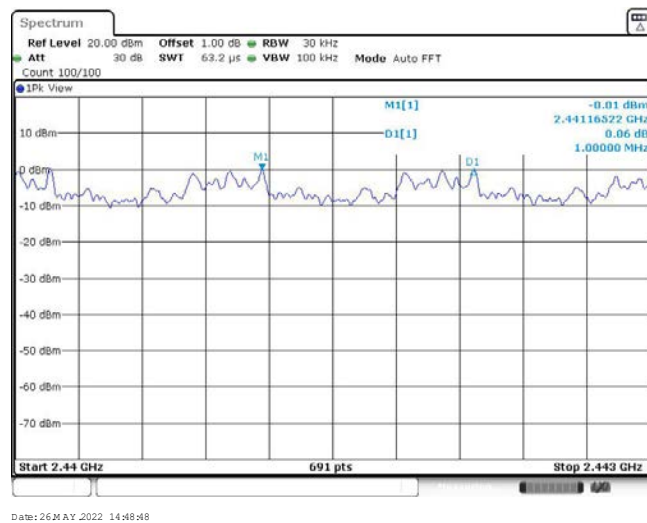
Note:

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

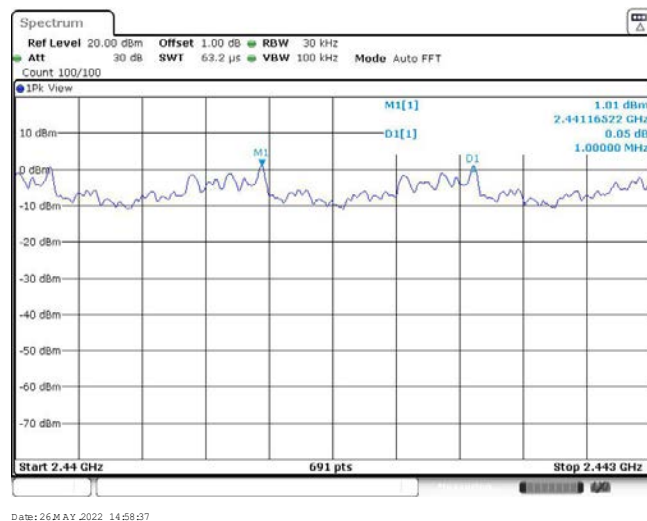
π/4DQPSK limit = $\frac{2}{3}$ * The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

8DPSK limit = $\frac{2}{3}$ * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

GFSK

 $\pi/4$ DQPSK

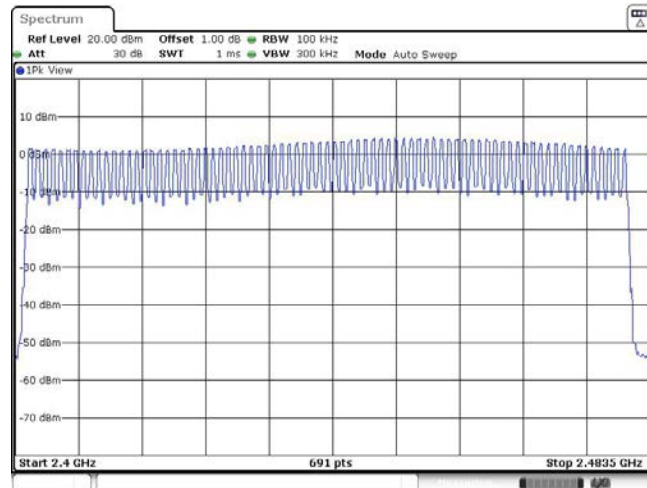
8DPSK



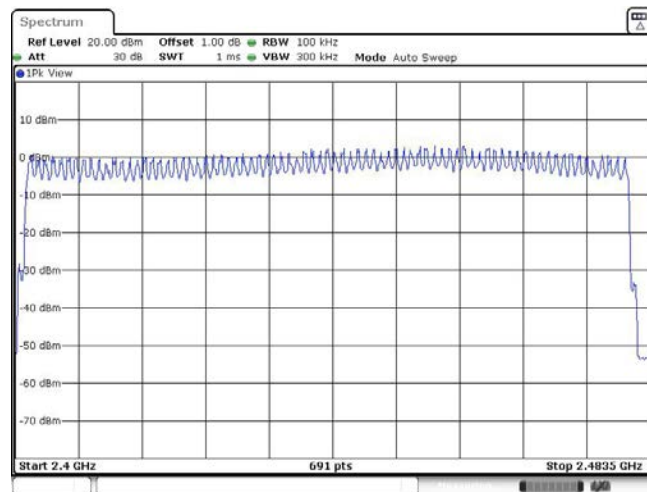
Appendix E: Hopping Channel Number

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

GFSK

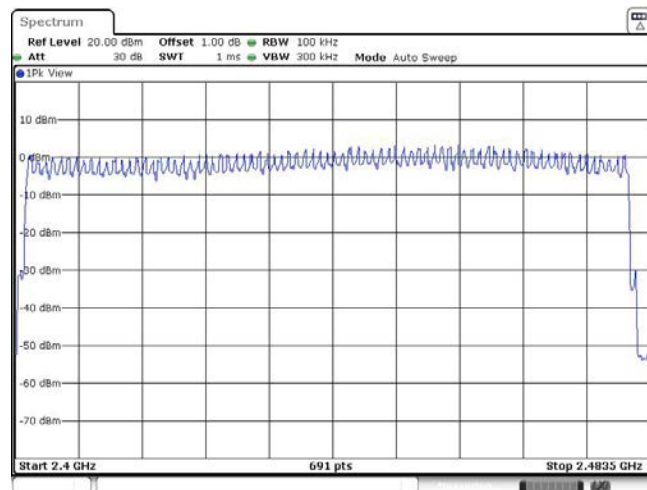


Date: 26 MAY 2022 14:26:21

 $\pi/4$ DQPSK

Date: 26 MAY 2022 14:49:46

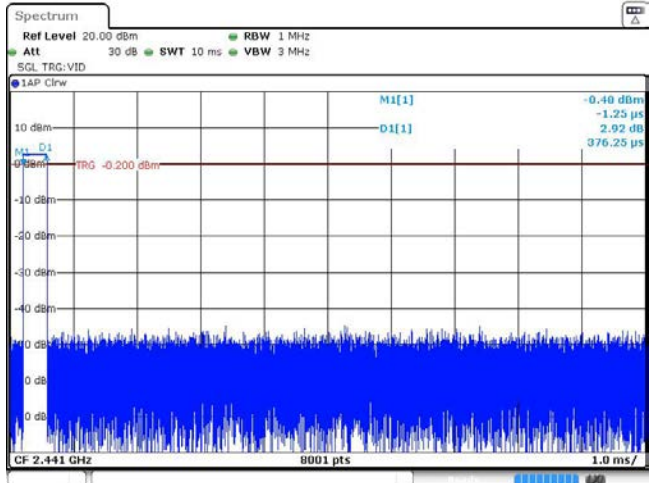
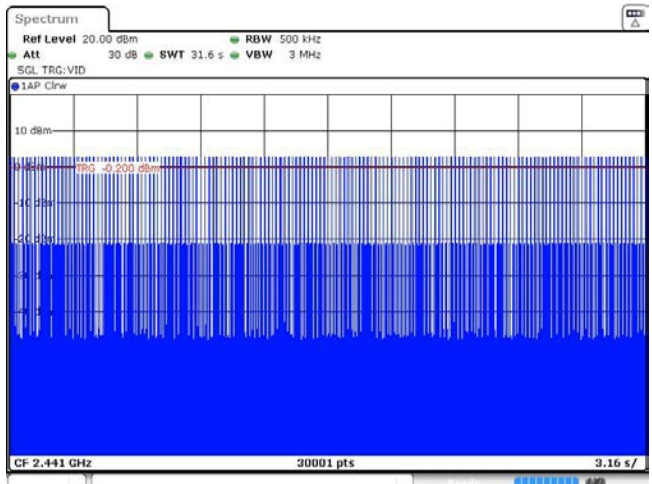
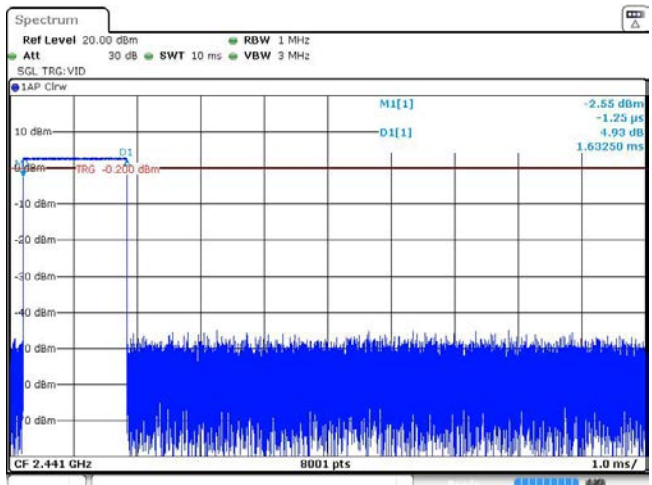
8DPSK



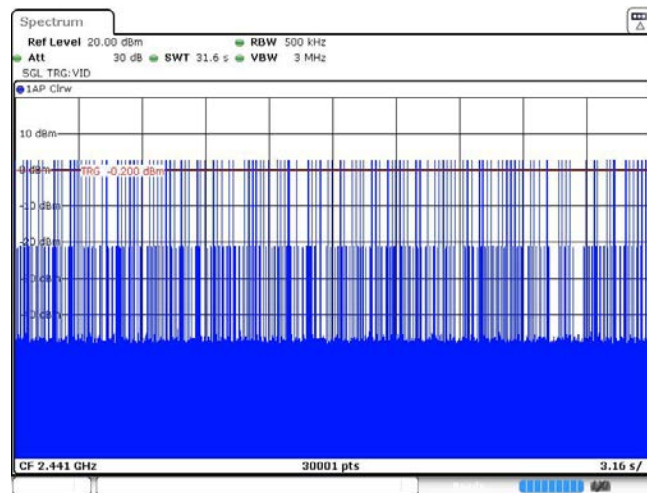
Date: 26 MAY 2022 15:01:23

Appendix F: Dwell Time

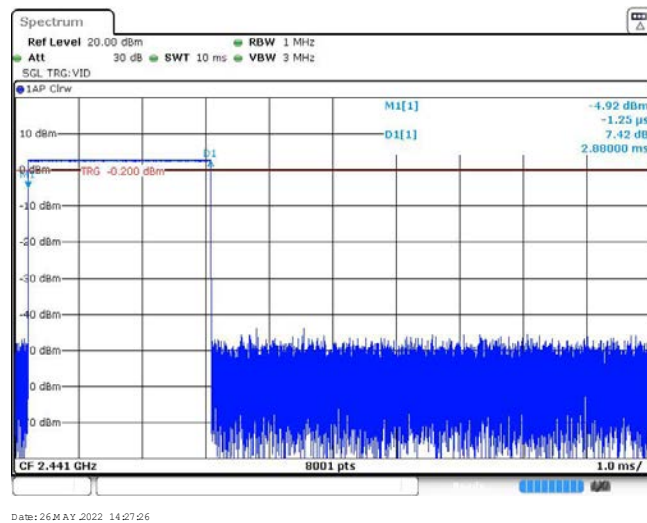
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	314	0.12	≤ 0.40	Pass
	DH3	1.63	160	0.26		
	DH5	2.88	125	0.36		
$\pi/4$ DQPSK	2DH1	0.38	314	0.12	≤ 0.40	Pass
	2DH3	1.64	157	0.26		
	2DH5	2.89	102	0.29		
8DPSK	3DH1	0.38	314	0.12	≤ 0.40	Pass
	3DH3	1.63	158	0.26		
	3DH5	2.89	110	0.32		

Modulation Type:	GFSK
DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. A red trigger line is set at -0.200 dBm. The plot shows a burst of signal starting at approximately 0.25 ms and ending at approximately 0.75 ms. The signal level is around -1.25 dBm. The plot is labeled 'M1[1]' and 'D1[1]'. Date: 26 MAY 2022 15:03:18
DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents time in s, ranging from 0 to 3.16. A red trigger line is set at -0.200 dBm. The plot shows a burst of signal starting at approximately 0.25 s and ending at approximately 3.16 s. The signal level is around -1.25 dBm. The plot is labeled 'M1[1]' and 'D1[1]'. Date: 26 MAY 2022 15:03:51
DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. A red trigger line is set at -0.200 dBm. The plot shows a burst of signal starting at approximately 0.25 ms and ending at approximately 0.75 ms. The signal level is around -1.25 dBm. The plot is labeled 'M1[1]' and 'D1[1]'. Date: 26 MAY 2022 15:04:24

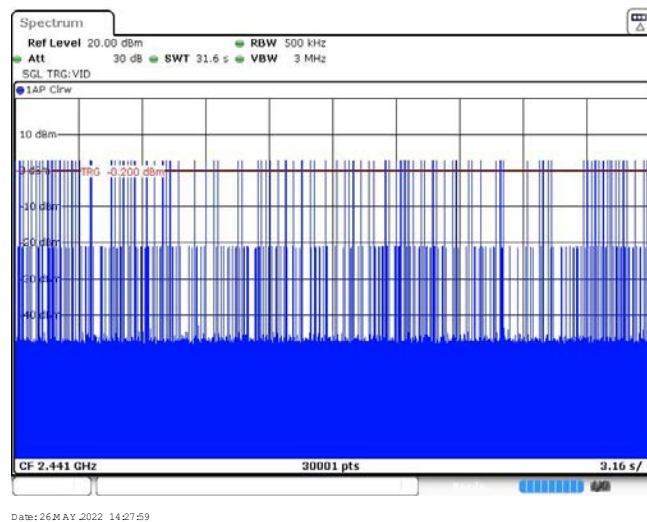
DH3
Burst number

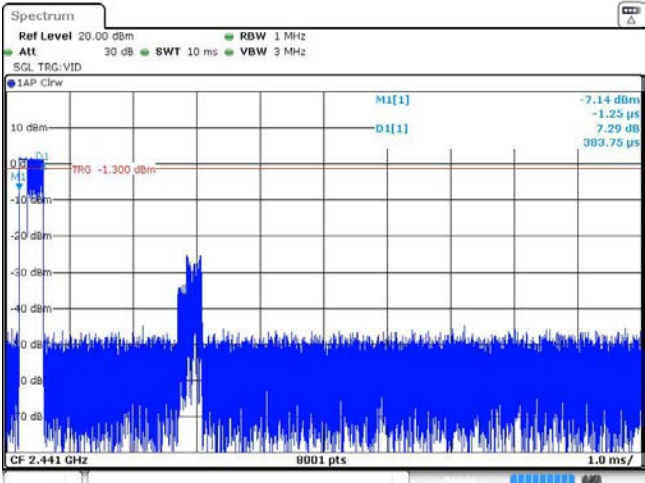
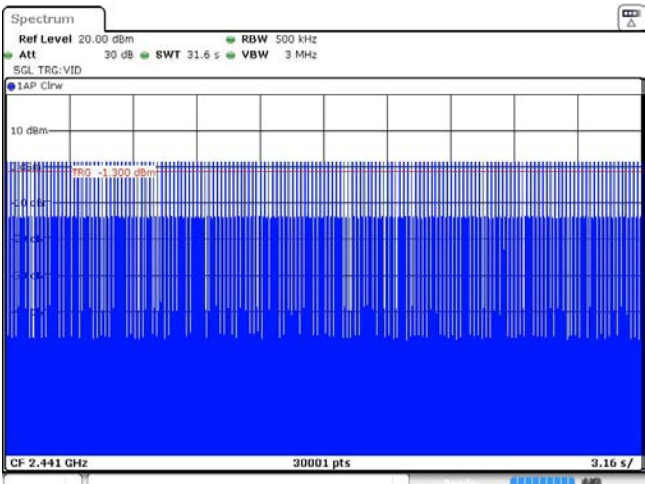
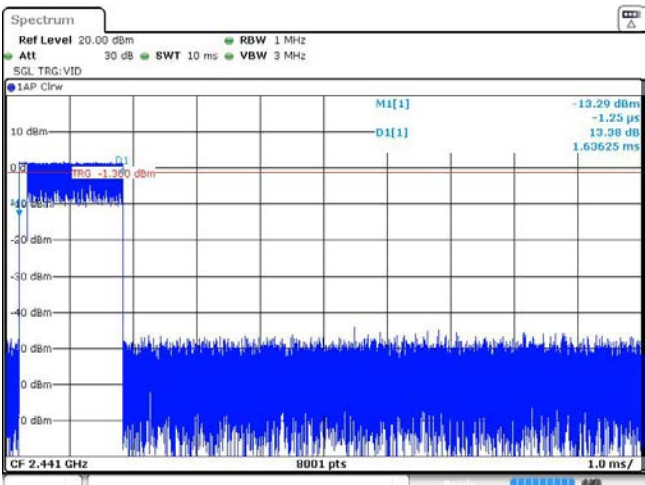


DH5
Burst width

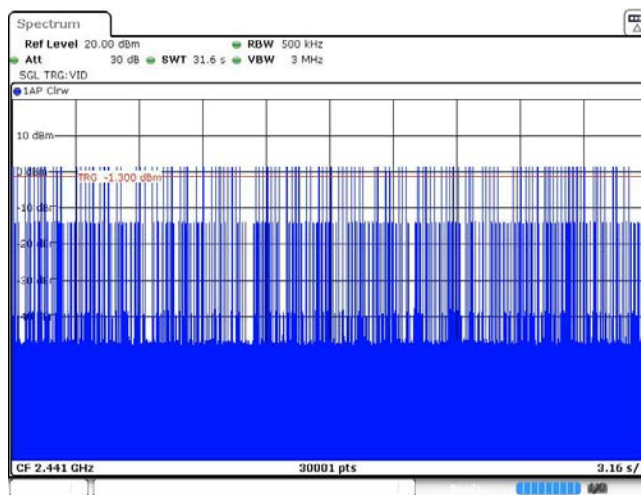


DH5
Burst number



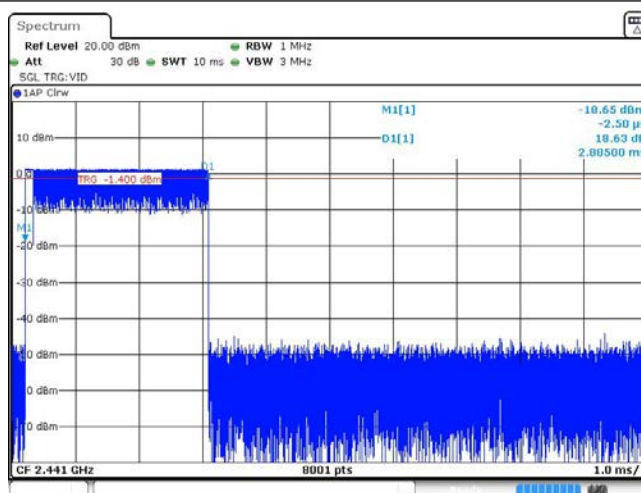
Modulation Type:	$\pi/4$ DQPSK
2DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the signal level at -1.300 dBm. The plot shows a burst of signal with a width of approximately 1.0 ms. The signal is labeled M1[1] and D1[1]. The plot also shows the signal level at -7.14 dBm, -1.25 μs, 7.29 dB, and 383.75 μs. Date: 26 MAY 2022 15:05:16
2DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the signal level at -1.300 dBm. The plot shows a burst of signal with a width of approximately 3.16 s. The signal is labeled M1[1] and D1[1]. The plot also shows the signal level at -13.29 dBm, -1.25 μs, 13.38 dB, and 1.63625 ms. Date: 26 MAY 2022 15:05:49
2DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.442. A red line indicates the signal level at -1.300 dBm. The plot shows a burst of signal with a width of approximately 1.0 ms. The signal is labeled M1[1] and D1[1]. The plot also shows the signal level at -13.29 dBm, -1.25 μs, 13.38 dB, and 1.63625 ms. Date: 26 MAY 2022 15:06:11

2DH3
Burst number



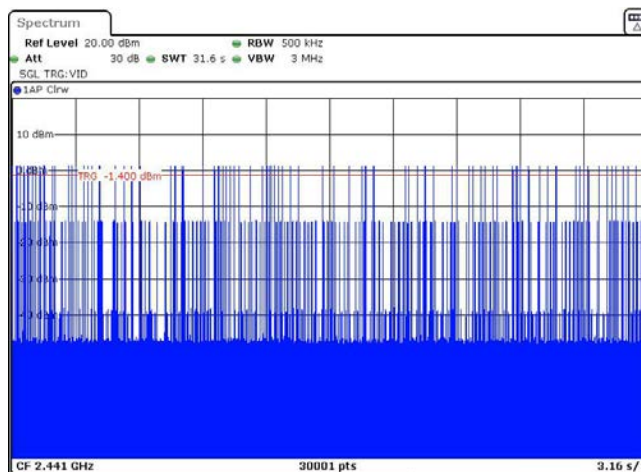
Date: 26 MAY 2022 15:06:44

2DH5
Burst width

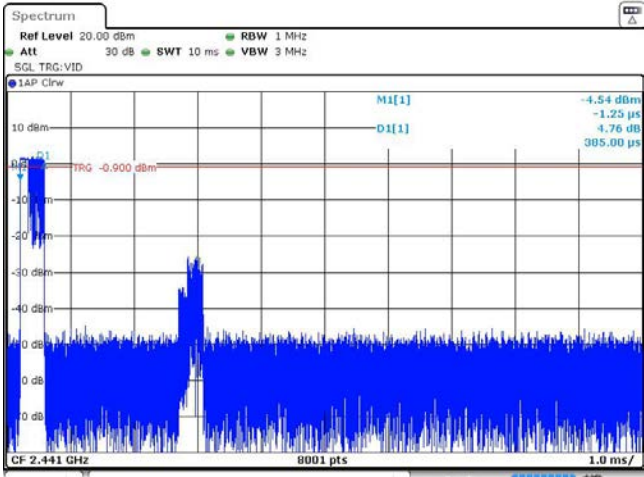
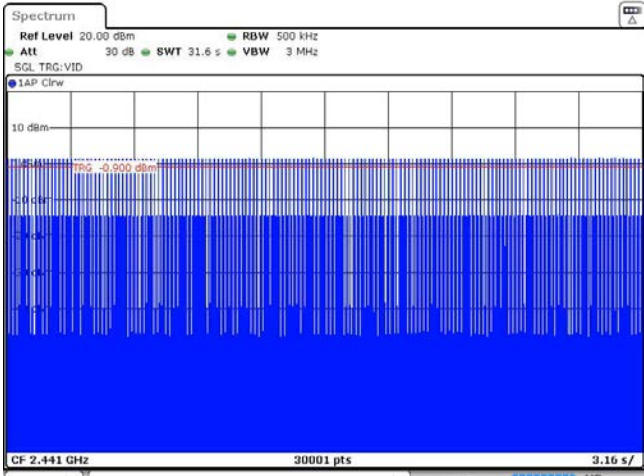
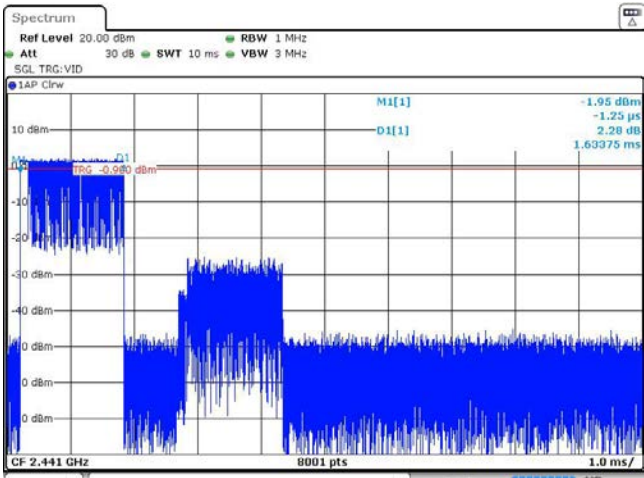


Date: 26 MAY 2022 14:50:41

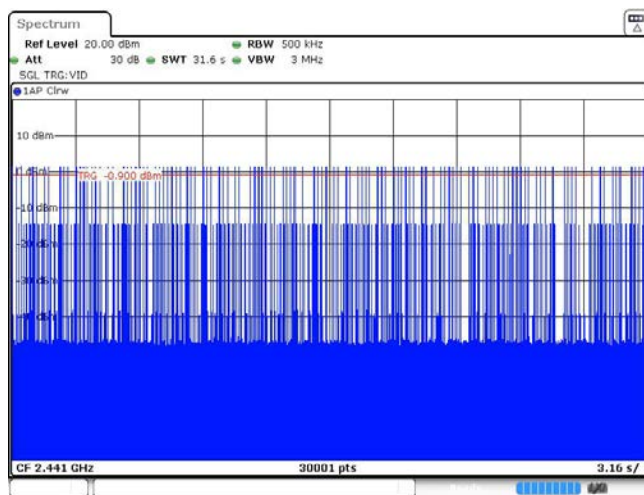
2DH5
Burst number



Date: 26 MAY 2022 14:51:14

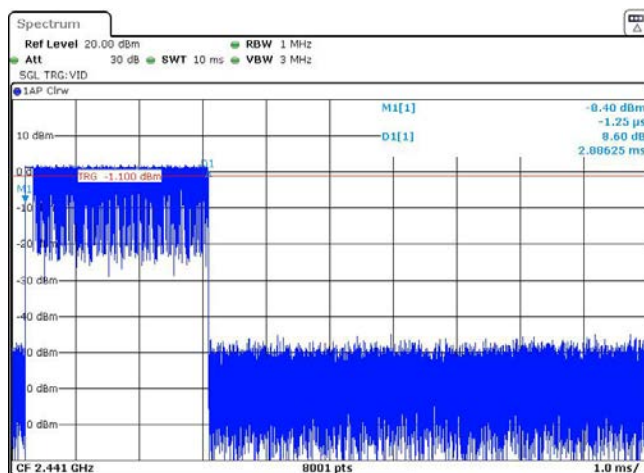
Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. A red horizontal line indicates a reference level at -0.900 dBm. The signal is a burst of energy, with a peak power of approximately -4.54 dBm. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, SWT 10 ms, VBW 3 MHz, and SGL TRG:VID. The date is 26 MAY 2022 15:07:05.
3DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents time in s, ranging from 0 to 3.16. A red horizontal line indicates a reference level at -0.900 dBm. The signal is a burst of energy, with a peak power of approximately -4.54 dBm. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, SWT 31.6 s, VBW 3 MHz, and SGL TRG:VID. The date is 26 MAY 2022 15:07:38.
3DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 10. The x-axis represents time in ms, ranging from 0 to 1.0. A red horizontal line indicates a reference level at -0.900 dBm. The signal is a burst of energy, with a peak power of approximately -1.95 dBm. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, SWT 10 ms, VBW 3 MHz, and SGL TRG:VID. The date is 26 MAY 2022 15:07:58.

3DH3
Burst number



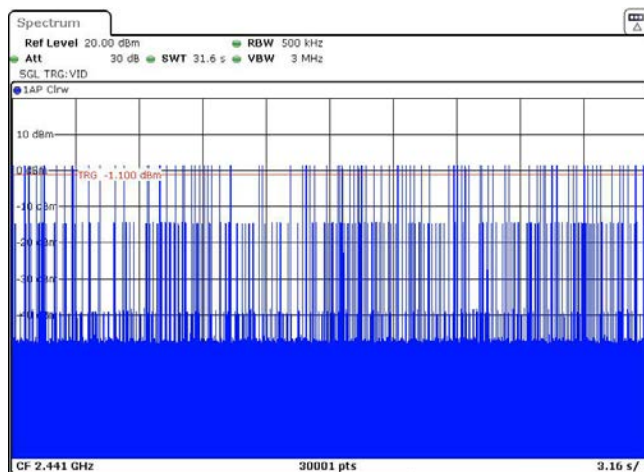
Date: 26 MAY 2022 15:08:31

3DH5
Burst width



Date: 26 MAY 2022 15:02:13

3DH5
Burst number



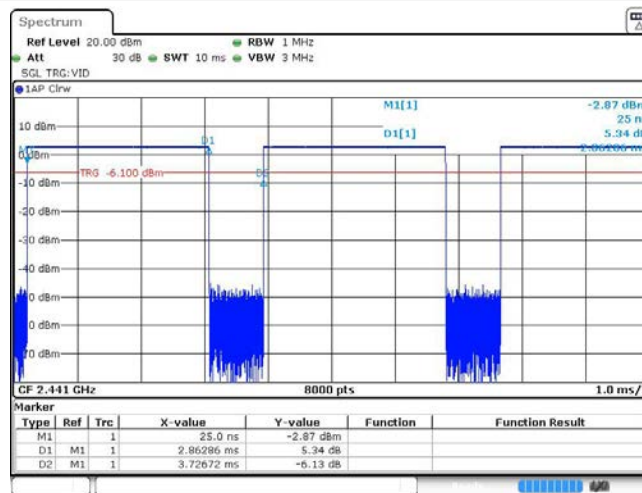
Date: 26 MAY 2022 15:02:46

Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

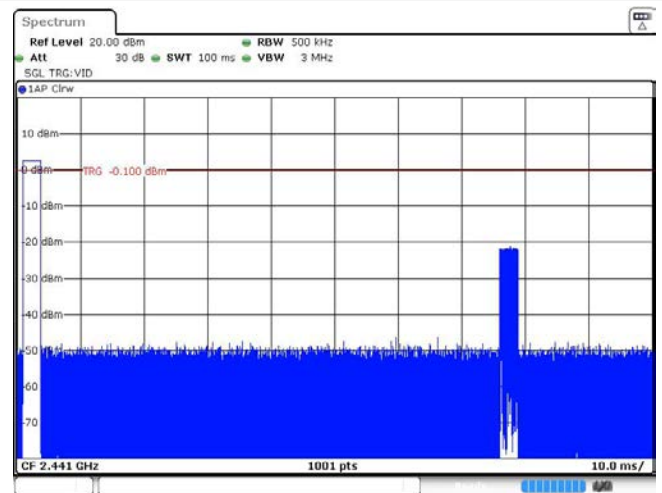
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.86	100	2	-24.85
$\pi/4$ DQPSK	2441	2.87	100	1	-30.84
8DPSK	2441	2.87	100	1	-30.84

GFSK



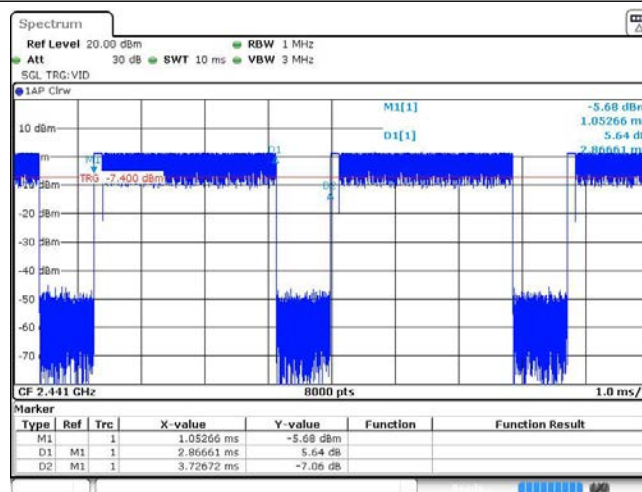
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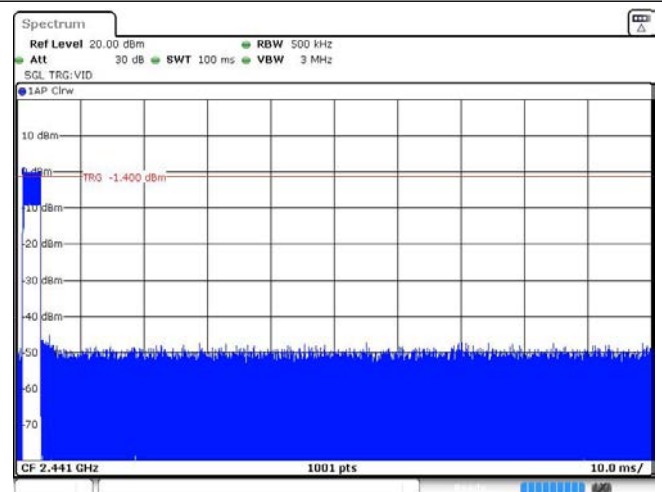
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Ton time for single burst

Burst Quantity

 $\pi/4$ DQPSK

Date: 26 MAY 2022 14:47:14

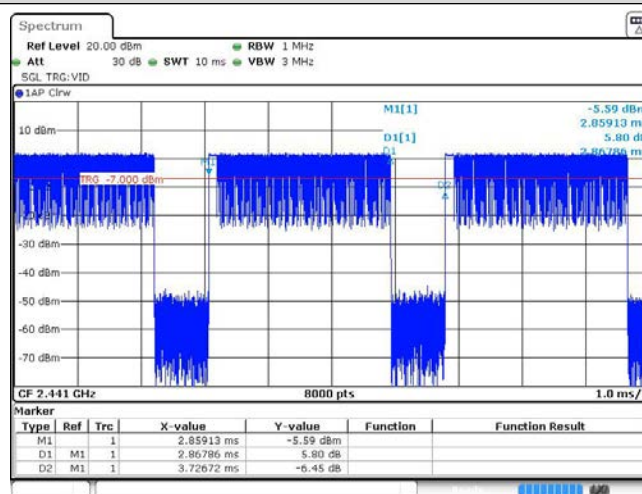


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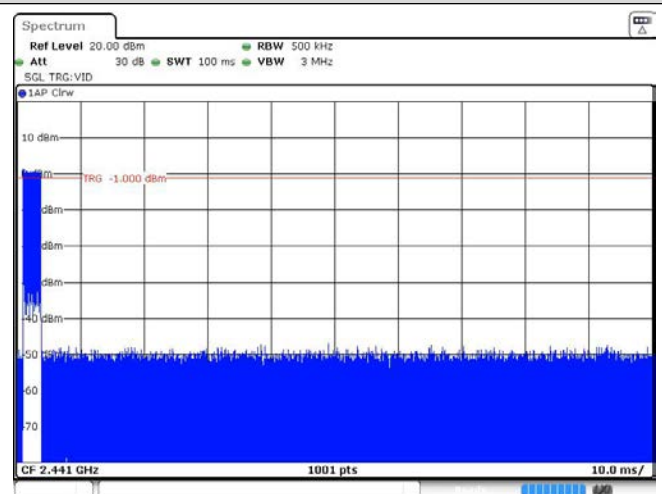
Ton time for single burst

Burst Quantity

8DPSK



Date: 26 MAY 2022 14:57:32



Date: 26 MAY 2022 14:57:43

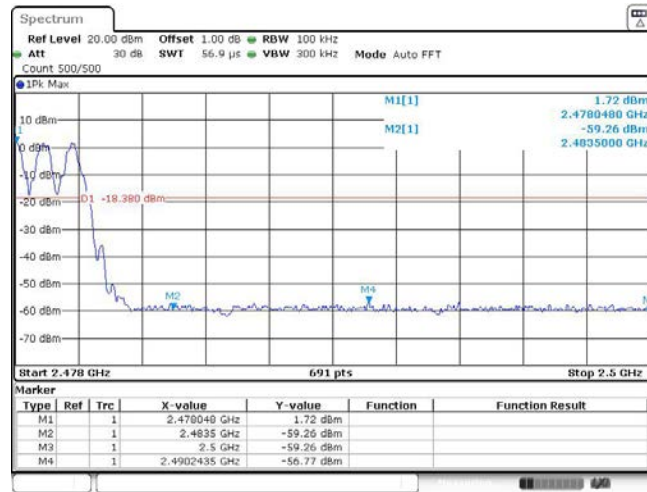
Ton time for single burst

Burst Quantity

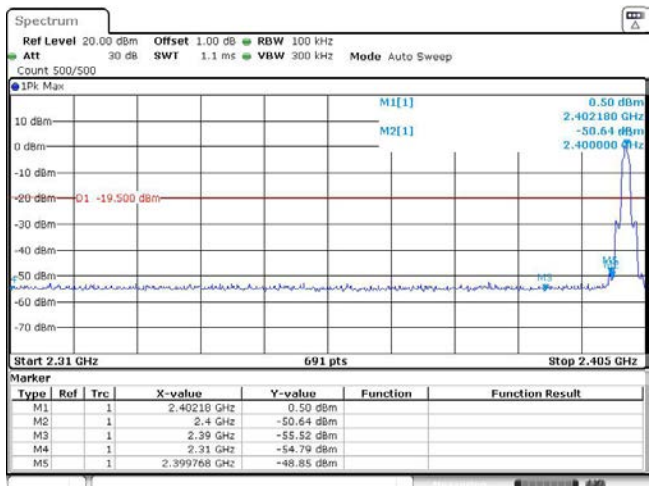
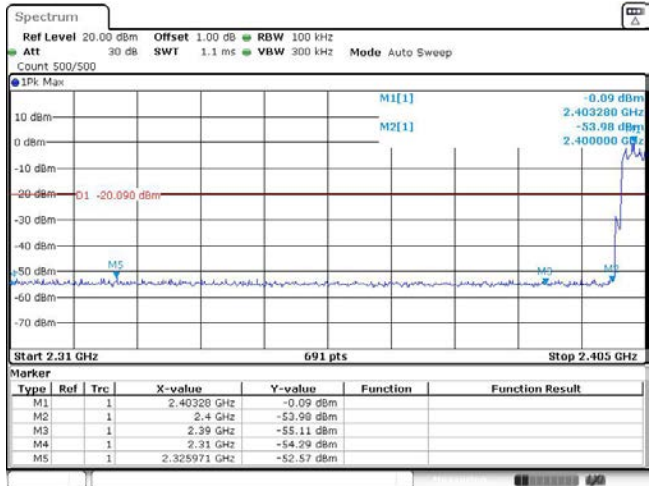
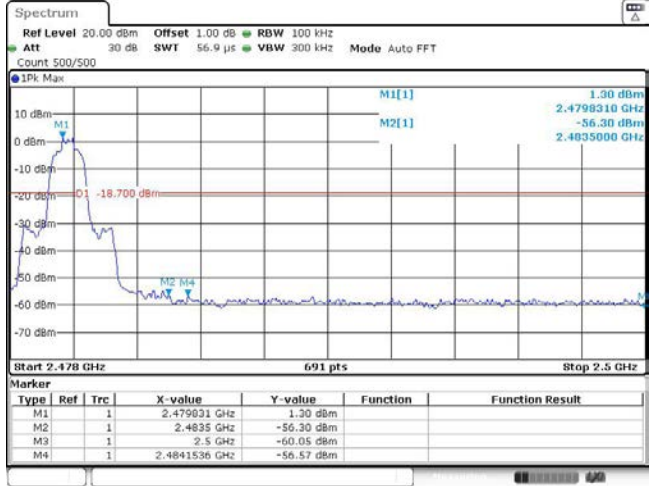
Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] 1.57 dBm 2.402180 GHz -52.58 dBm 2.400000 GHz D1 -19.430 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40218 GHz</td><td>1.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-52.58 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-54.83 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.98 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.319087 GHz</td><td>-52.57 dBm</td><td></td><td></td></tr></table> Date: 26 MAY 2022 14:17:18			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	1.57 dBm			M2	1		2.4 GHz	-52.58 dBm			M3	1		2.39 GHz	-54.83 dBm			M4	1		2.31 GHz	-54.98 dBm			M5	1		2.319087 GHz	-52.57 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40218 GHz	1.57 dBm																																									
M2	1		2.4 GHz	-52.58 dBm																																									
M3	1		2.39 GHz	-54.83 dBm																																									
M4	1		2.31 GHz	-54.98 dBm																																									
M5	1		2.319087 GHz	-52.57 dBm																																									
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] 0.69 dBm 2.403010 GHz -54.99 dBm 2.400000 GHz D1 -19.310 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40301 GHz</td><td>0.69 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-54.99 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.15 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-53.30 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.310964 GHz</td><td>-52.89 dBm</td><td></td><td></td></tr></table> Date: 26 MAY 2022 14:26:04			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40301 GHz	0.69 dBm			M2	1		2.4 GHz	-54.99 dBm			M3	1		2.39 GHz	-55.15 dBm			M4	1		2.31 GHz	-53.30 dBm			M5	1		2.310964 GHz	-52.89 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40301 GHz	0.69 dBm																																									
M2	1		2.4 GHz	-54.99 dBm																																									
M3	1		2.39 GHz	-55.15 dBm																																									
M4	1		2.31 GHz	-53.30 dBm																																									
M5	1		2.310964 GHz	-52.89 dBm																																									
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 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] 2.35 dBm 2.480149 GHz -59.28 dBm 2.400000 GHz D1 -17.650 dBm Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.480149 GHz</td><td>2.35 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.28 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.36 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4893826 GHz</td><td>-55.90 dBm</td><td></td><td></td></tr></table> Date: 26 MAY 2022 14:19:32			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480149 GHz	2.35 dBm			M2	1		2.4835 GHz	-59.28 dBm			M3	1		2.5 GHz	-59.36 dBm			M4	1		2.4893826 GHz	-55.90 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.480149 GHz	2.35 dBm																																									
M2	1		2.4835 GHz	-59.28 dBm																																									
M3	1		2.5 GHz	-59.36 dBm																																									
M4	1		2.4893826 GHz	-55.90 dBm																																									

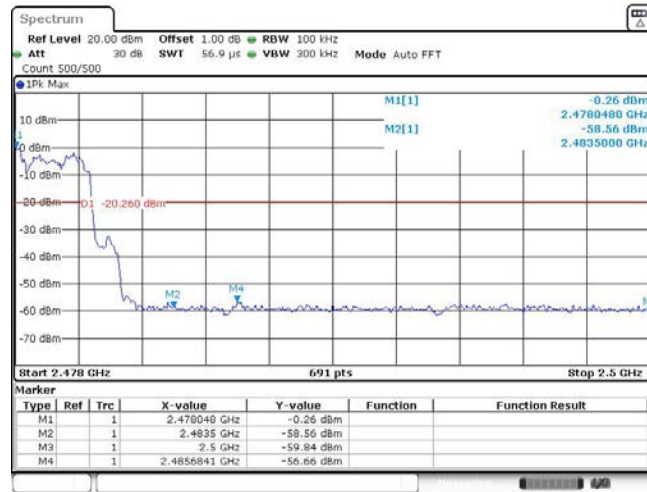
CH78
Hopping mode



Date: 26 MAY 2022 14:26:47

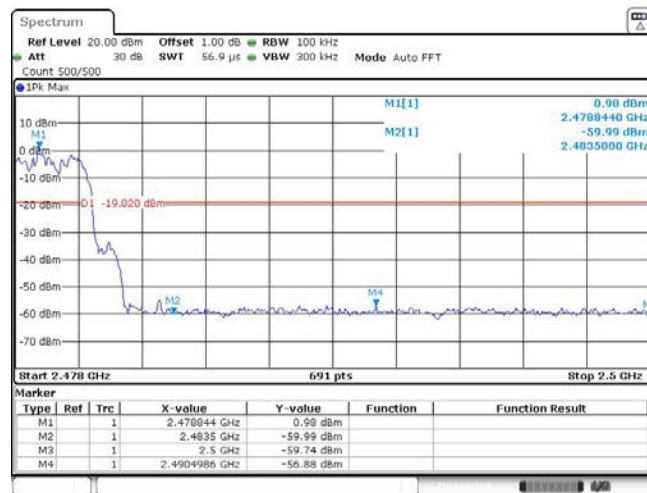
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																									
CH00 No hopping mode	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40218 GHz</td><td>0.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-50.64 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.52 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.79 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399768 GHz</td><td>-48.85 dBm</td><td></td><td></td></tr></table> Date: 26 MAY 2022 14:29:41	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40218 GHz	0.50 dBm			M2	1		2.4 GHz	-50.64 dBm			M3	1		2.39 GHz	-55.52 dBm			M4	1		2.31 GHz	-54.79 dBm			M5	1		2.399768 GHz	-48.85 dBm			
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40218 GHz	0.50 dBm																																								
M2	1		2.4 GHz	-50.64 dBm																																								
M3	1		2.39 GHz	-55.52 dBm																																								
M4	1		2.31 GHz	-54.79 dBm																																								
M5	1		2.399768 GHz	-48.85 dBm																																								
CH00 Hopping mode	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 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 Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40328 GHz</td><td>-0.09 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.98 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.11 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.29 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.325971 GHz</td><td>-52.57 dBm</td><td></td><td></td></tr></table> Date: 26 MAY 2022 14:49:59	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40328 GHz	-0.09 dBm			M2	1		2.4 GHz	-53.98 dBm			M3	1		2.39 GHz	-55.11 dBm			M4	1		2.31 GHz	-54.29 dBm			M5	1		2.325971 GHz	-52.57 dBm			
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40328 GHz	-0.09 dBm																																								
M2	1		2.4 GHz	-53.98 dBm																																								
M3	1		2.39 GHz	-55.11 dBm																																								
M4	1		2.31 GHz	-54.29 dBm																																								
M5	1		2.325971 GHz	-52.57 dBm																																								
CH78 No hopping mode	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 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 Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.479831 GHz</td><td>1.30 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-56.30 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-60.05 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4841536 GHz</td><td>-56.57 dBm</td><td></td><td></td></tr></table> Date: 26 MAY 2022 14:31:34	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479831 GHz	1.30 dBm			M2	1		2.4835 GHz	-56.30 dBm			M3	1		2.5 GHz	-60.05 dBm			M4	1		2.4841536 GHz	-56.57 dBm										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.479831 GHz	1.30 dBm																																								
M2	1		2.4835 GHz	-56.30 dBm																																								
M3	1		2.5 GHz	-60.05 dBm																																								
M4	1		2.4841536 GHz	-56.57 dBm																																								

CH78
Hopping mode

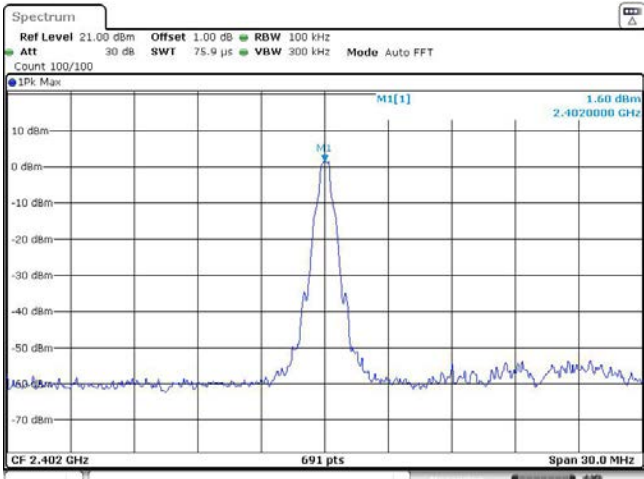
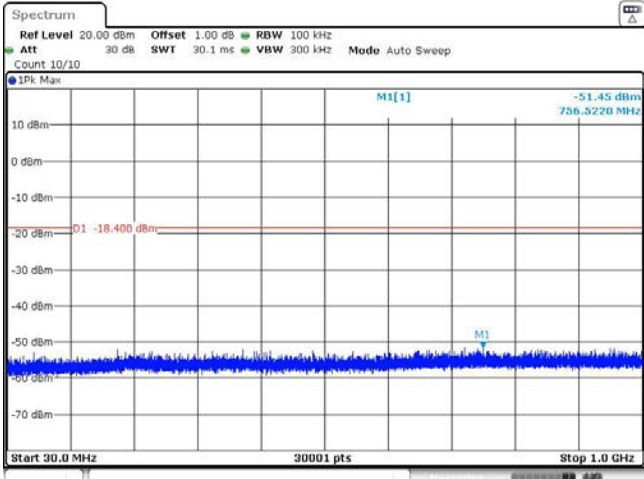
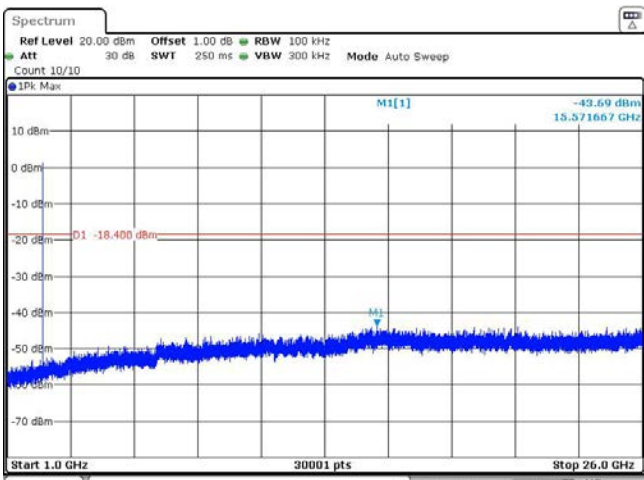


Test Item:	Band edge	Modulation type:	8DPSK																																																
CH00 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max MI[1] 0.29 dBm 2.401910 GHz M2[1] -51.14 dBm 2.400000 GHz D1 -19.710 dBm M3 -54.49 dBm M4 -54.00 dBm M5 -49.68 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz <table><thead><tr><th>Marker</th><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></td><td>2.40191 GHz</td><td>0.29 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4 GHz</td><td>-51.14 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.39 GHz</td><td>-54.49 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.31 GHz</td><td>-54.00 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td></td><td>2.39963 GHz</td><td>-49.68 dBm</td><td></td><td></td></tr></tbody></table> Date: 26 MAY 2022 14:52:45			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40191 GHz	0.29 dBm			M2	1			2.4 GHz	-51.14 dBm			M3	1			2.39 GHz	-54.49 dBm			M4	1			2.31 GHz	-54.00 dBm			M5	1			2.39963 GHz	-49.68 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
M1	1			2.40191 GHz	0.29 dBm																																														
M2	1			2.4 GHz	-51.14 dBm																																														
M3	1			2.39 GHz	-54.49 dBm																																														
M4	1			2.31 GHz	-54.00 dBm																																														
M5	1			2.39963 GHz	-49.68 dBm																																														
CH00 Hopping mode	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max MI[1] -1.91 dBm 2.403140 GHz M2[1] -53.18 dBm 2.400000 GHz D1 -21.910 dBm M3 -54.84 dBm M4 -54.54 dBm M5 -51.72 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz <table><thead><tr><th>Marker</th><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></td><td>2.40314 GHz</td><td>-1.91 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4 GHz</td><td>-53.18 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.39 GHz</td><td>-54.84 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.31 GHz</td><td>-54.54 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td></td><td>2.399768 GHz</td><td>-51.72 dBm</td><td></td><td></td></tr></tbody></table> Date: 26 MAY 2022 15:01:36			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40314 GHz	-1.91 dBm			M2	1			2.4 GHz	-53.18 dBm			M3	1			2.39 GHz	-54.84 dBm			M4	1			2.31 GHz	-54.54 dBm			M5	1			2.399768 GHz	-51.72 dBm		
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
M1	1			2.40314 GHz	-1.91 dBm																																														
M2	1			2.4 GHz	-53.18 dBm																																														
M3	1			2.39 GHz	-54.84 dBm																																														
M4	1			2.31 GHz	-54.54 dBm																																														
M5	1			2.399768 GHz	-51.72 dBm																																														
CH78 No hopping mode	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 56.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk Max MI[1] 1.15 dBm 2.460149 GHz M2[1] -56.87 dBm 2.463500 GHz D1 -18.850 dBm M3 -58.29 dBm M4 -56.45 dBm Start 2.478 GHz 691 pts Stop 2.5 GHz <table><thead><tr><th>Marker</th><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></td><td>2.460149 GHz</td><td>1.15 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4635 GHz</td><td>-56.87 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.5 GHz</td><td>-58.29 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.4988841 GHz</td><td>-56.45 dBm</td><td></td><td></td></tr></tbody></table> Date: 26 MAY 2022 14:54:45			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.460149 GHz	1.15 dBm			M2	1			2.4635 GHz	-56.87 dBm			M3	1			2.5 GHz	-58.29 dBm			M4	1			2.4988841 GHz	-56.45 dBm										
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																												
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M2	1			2.4635 GHz	-56.87 dBm																																														
M3	1			2.5 GHz	-58.29 dBm																																														
M4	1			2.4988841 GHz	-56.45 dBm																																														

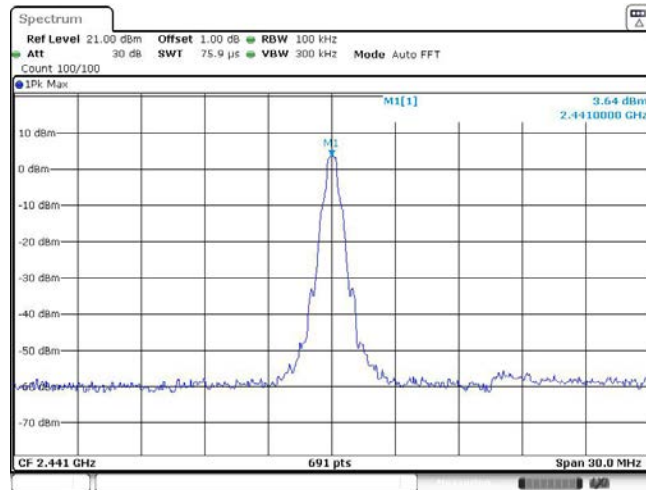
CH78
Hoppig mode



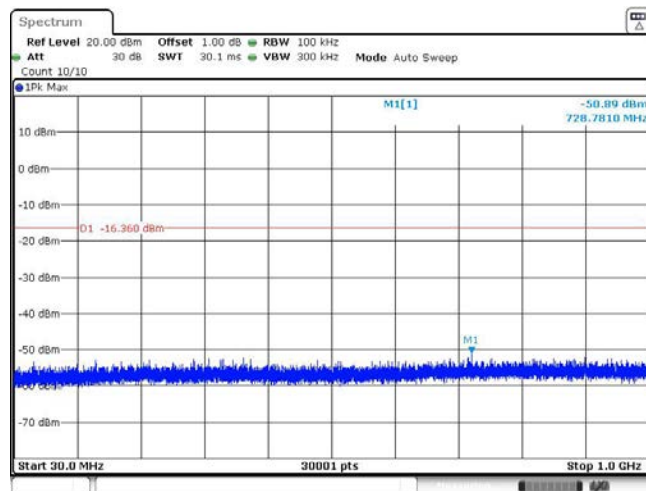
Date: 26 MAY 2022 15:01:49

Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level	 Date: 26 MAY 2022 14:17:24		
CH00 30MHz~1000MHz	 Date: 26 MAY 2022 14:17:39		
CH00 1GHz~26GHz	 Date: 26 MAY 2022 14:17:54		

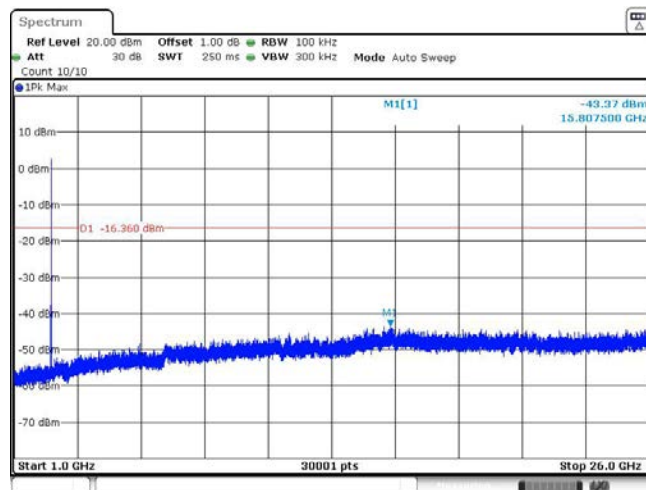
CH39
Reference level



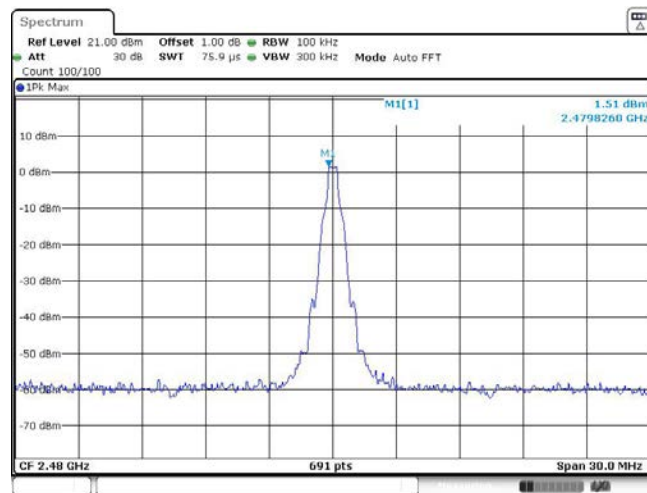
CH39
30MHz~1000MHz



CH39
1GHz~26GHz

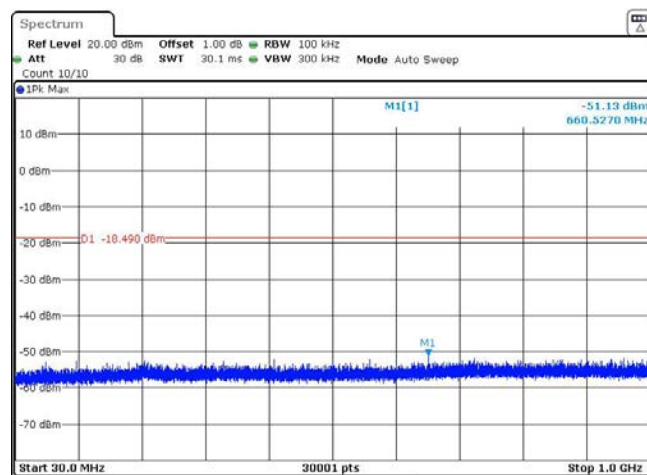


CH78
Reference level



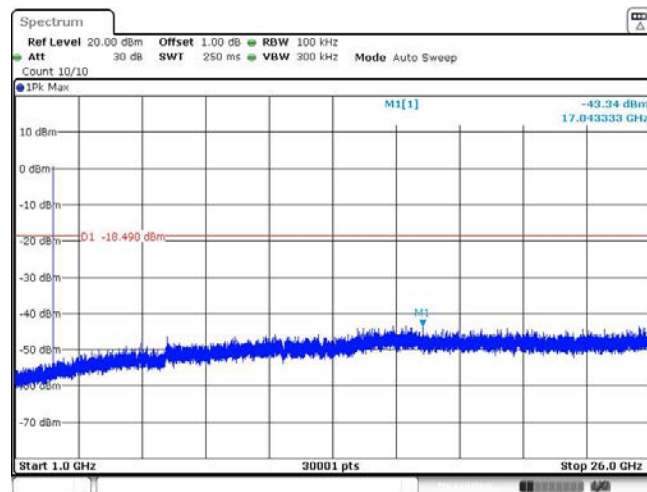
Date: 26 MAY 2022 14:19:38

CH78
30MHz~1000MHz

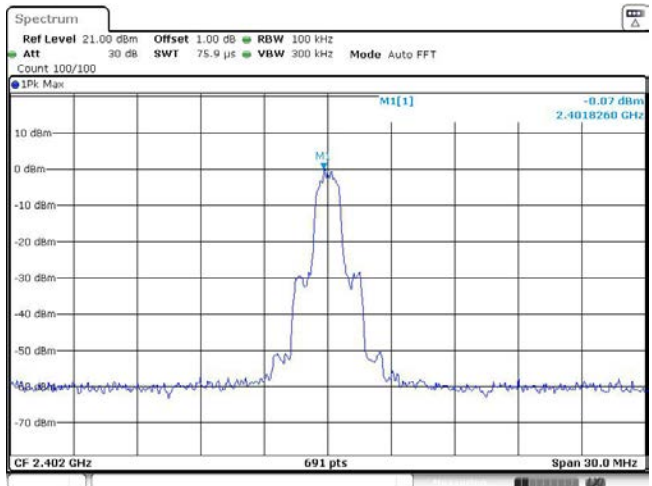
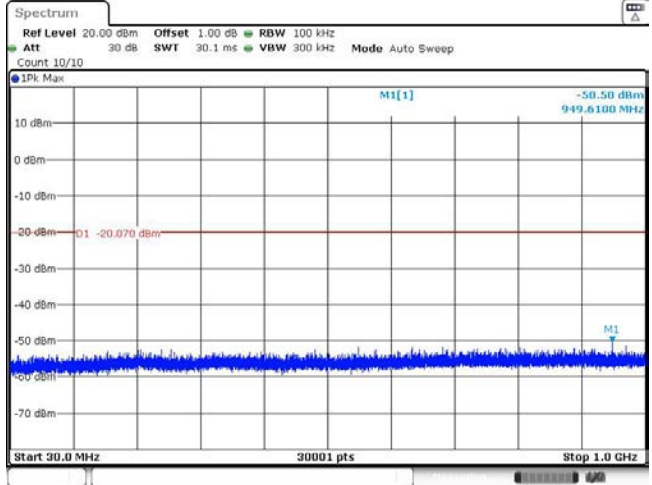
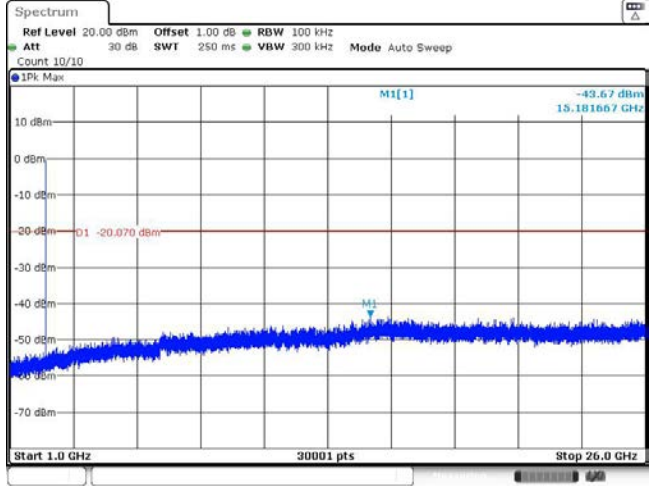


Date: 26 MAY 2022 14:19:53

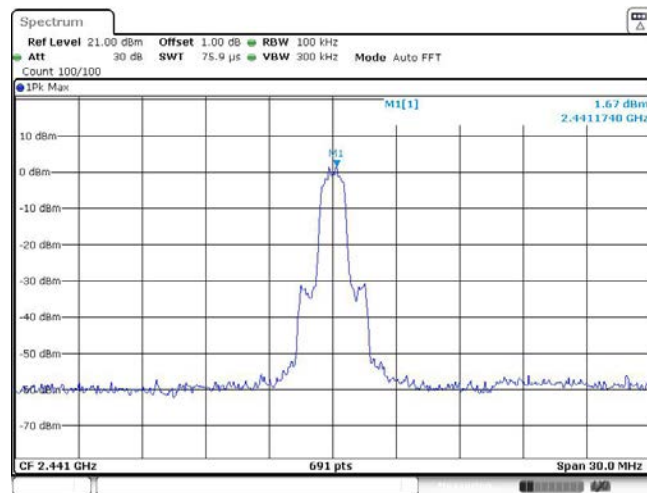
CH78
1GHz~26GHz



Date: 26 MAY 2022 14:20:08

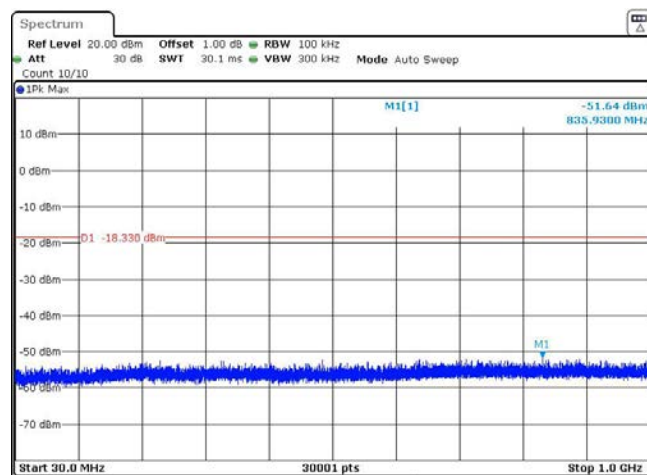
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level	 Date: 26 MAY 2022 14:29:47		
CH00 30MHz~1000MHz	 Date: 26 MAY 2022 14:30:02		
CH00 1GHz~26GHz	 Date: 26 MAY 2022 14:30:17		

CH39
Reference level



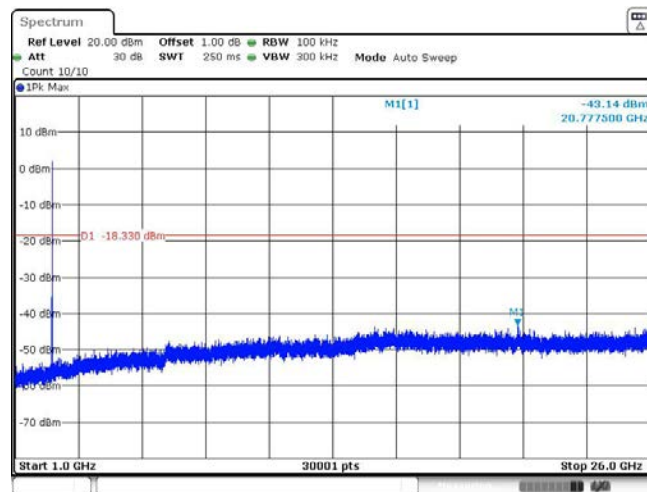
Date: 26 MAY 2022 14:46:04

CH39
30MHz~1000MHz



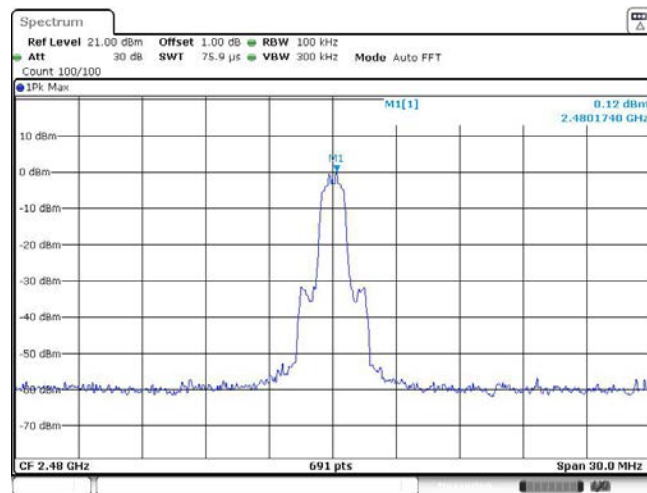
Date: 26 MAY 2022 14:46:19

CH39
1GHz~26GHz

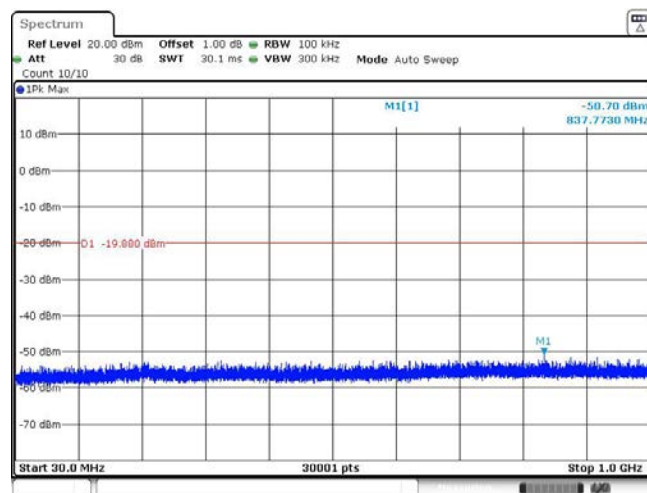


Date: 26 MAY 2022 14:46:34

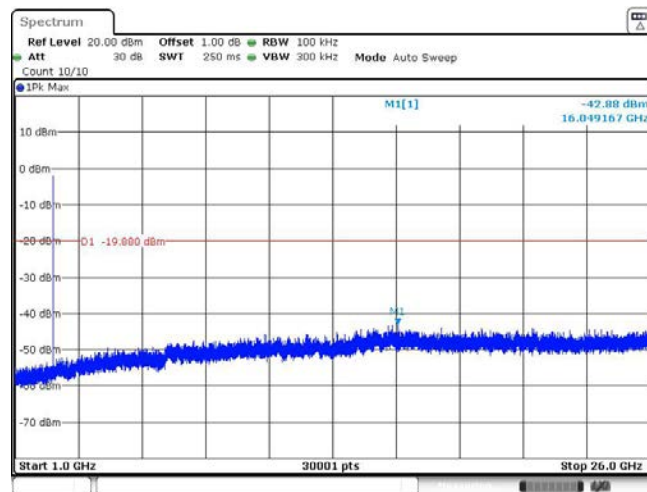
CH78
Reference level

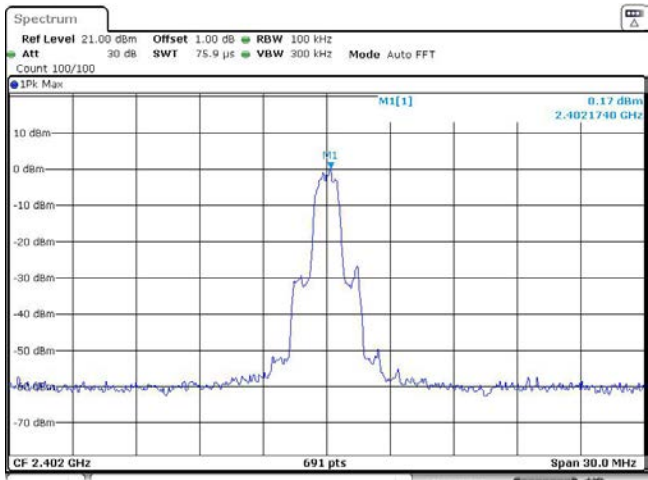
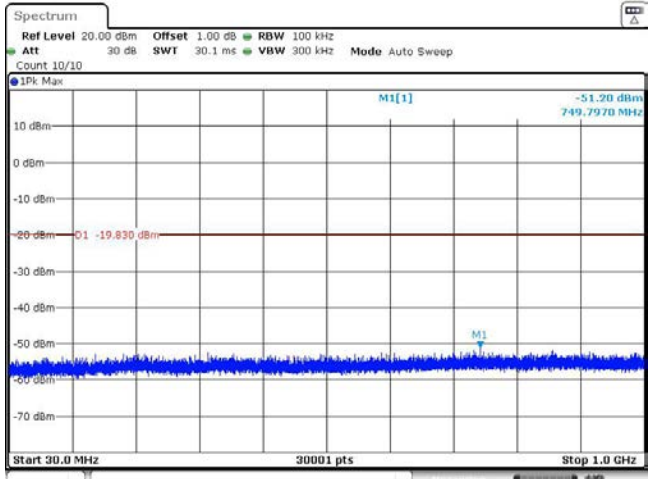
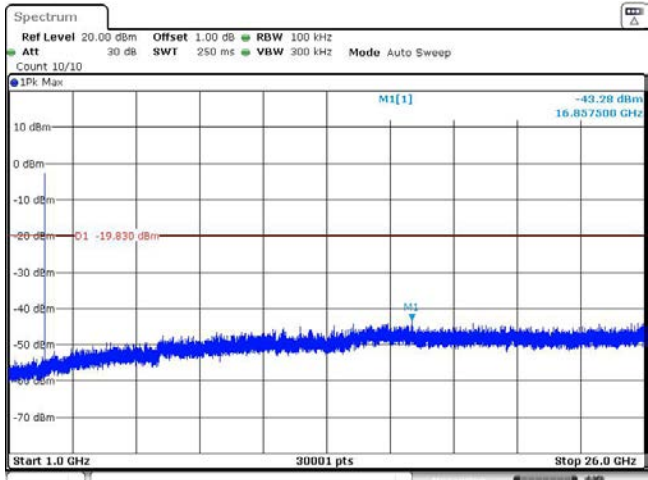


CH78
30MHz~1000MHz

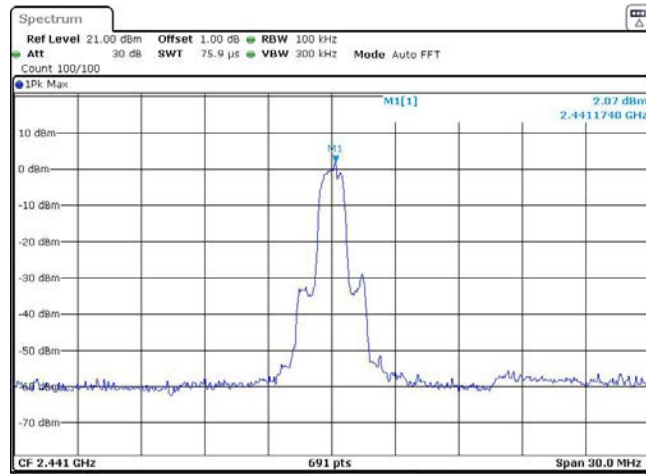


CH78
1GHz~26GHz



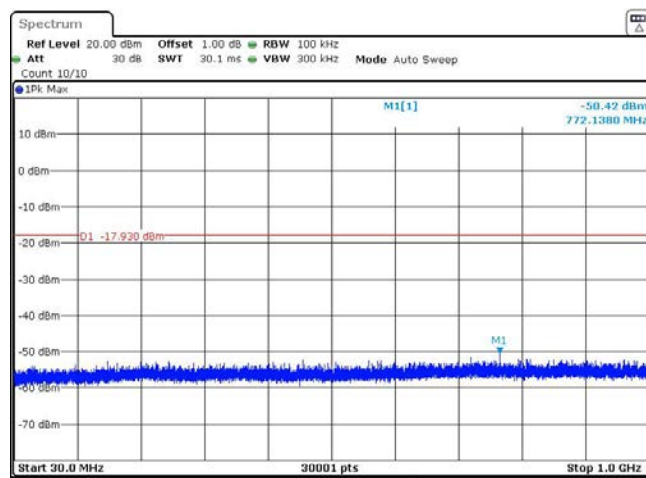
Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level	 Date: 26 MAY 2022 14:52:51		
CH00 30MHz~1000MHz	 Date: 26 MAY 2022 14:53:06		
CH00 1GHz~26GHz	 Date: 26 MAY 2022 14:53:21		

CH39
Reference level



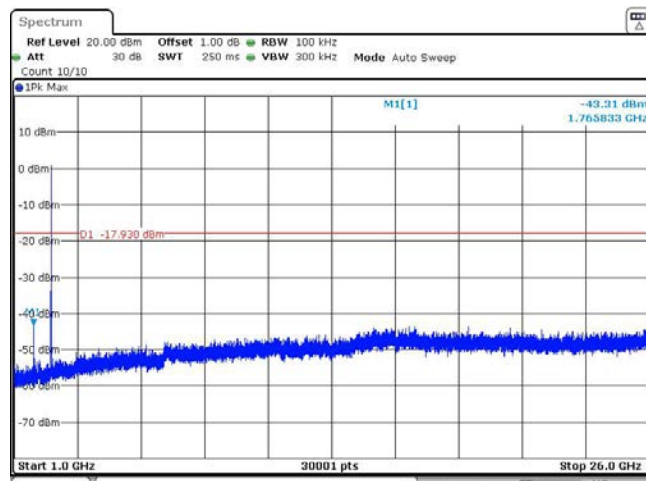
Date: 26 MAY 2022 14:56:37

CH39
30MHz~1000MHz



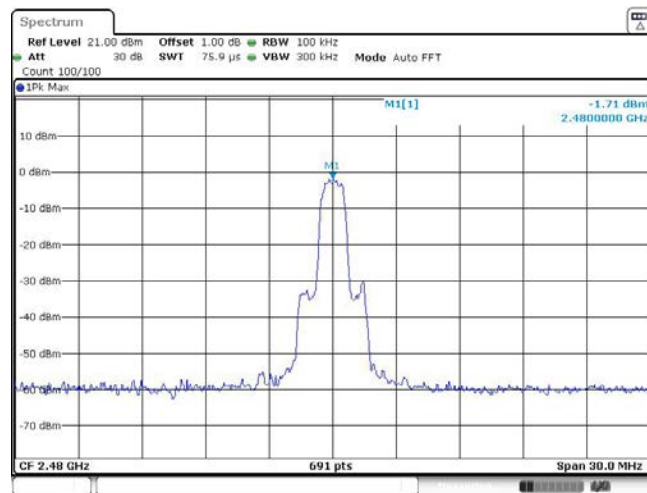
Date: 26 MAY 2022 14:56:52

CH39
1GHz~26GHz



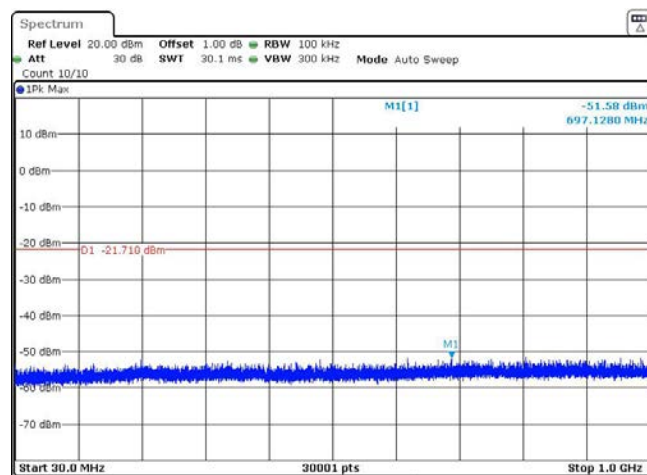
Date: 26 MAY 2022 14:57:07

CH78
Reference level



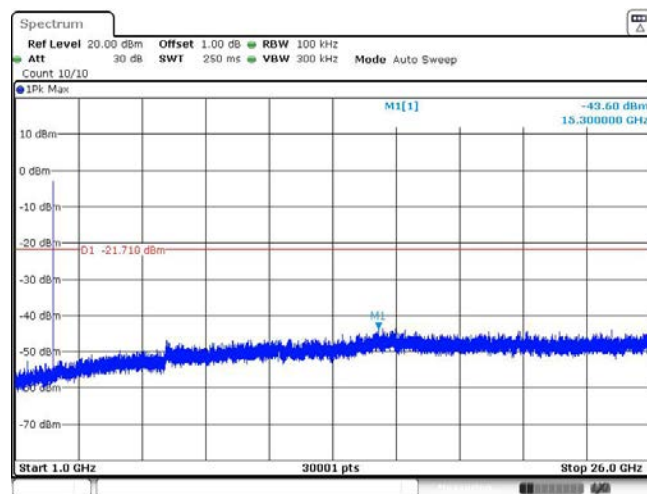
Date: 26 MAY 2022 14:54:51

CH78
30MHz~1000MHz



Date: 26 MAY 2022 14:55:05

CH78
1GHz~26GHz



Date: 26 MAY 2022 14:55:21

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