

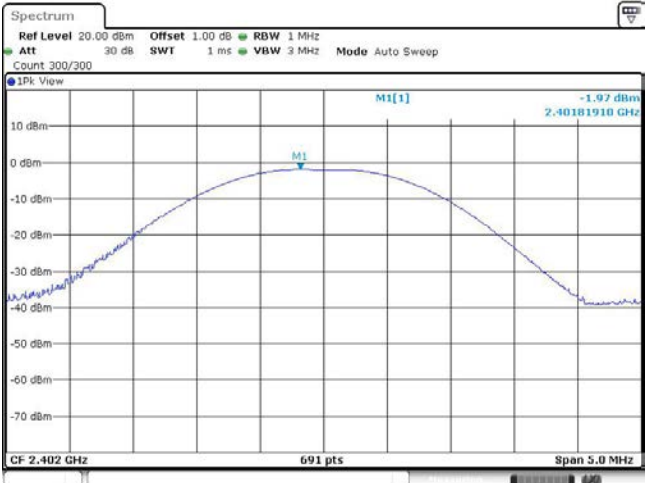
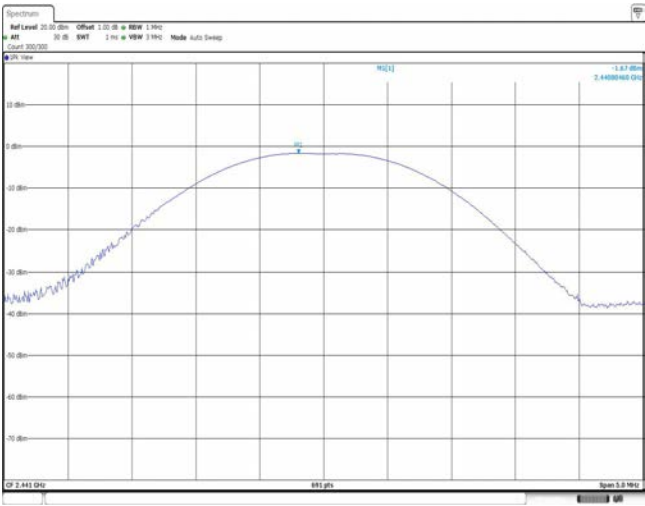
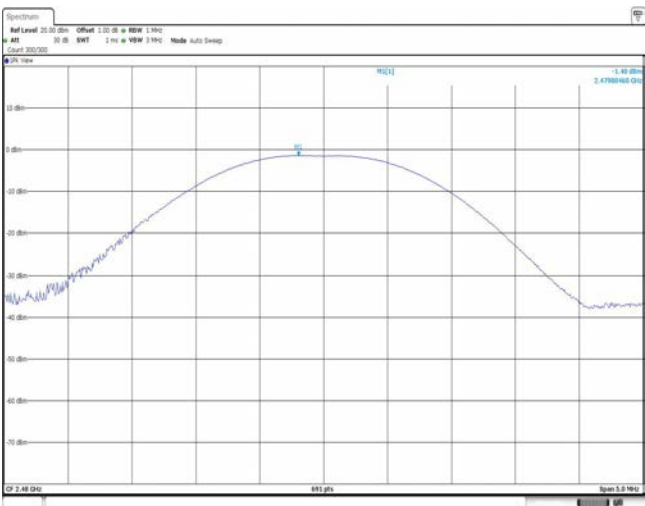
APPENDIX REPORT

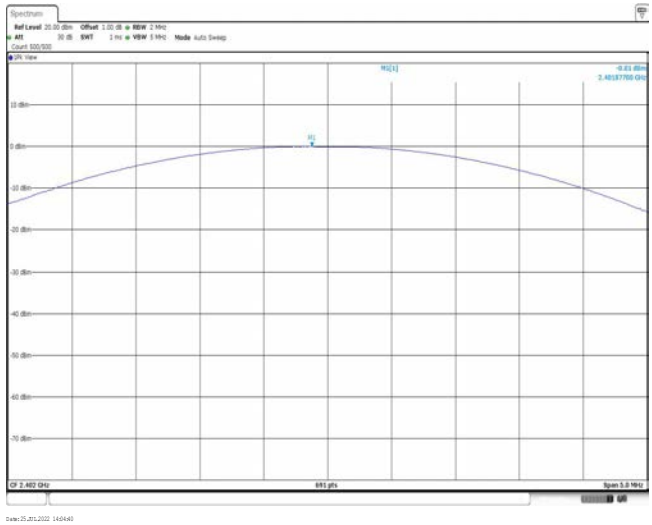
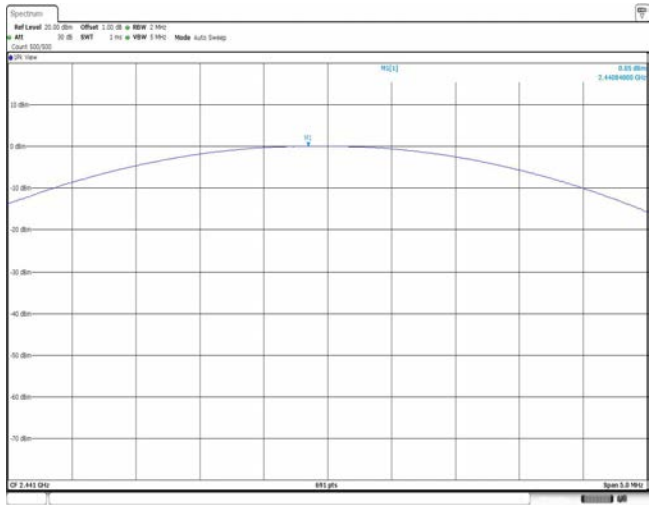
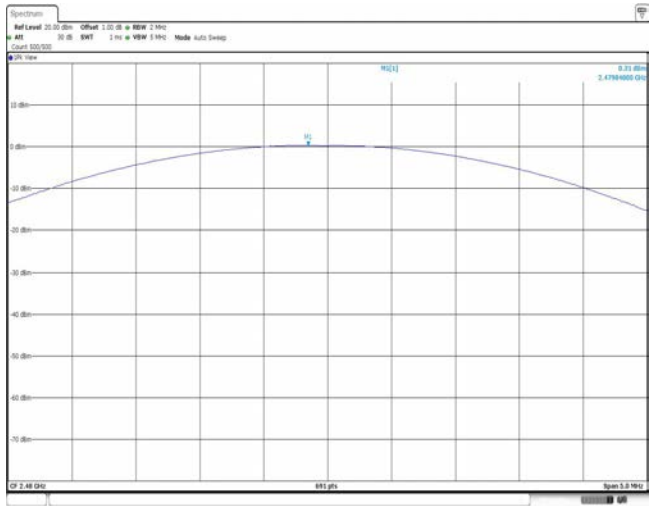
Project No.	SHT2207065101EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT22070651003	Model No.	P270
Start test date	2022-07-25	Finish date	2022-07-25
Temperature	25.9℃	Humidity	31%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zheo

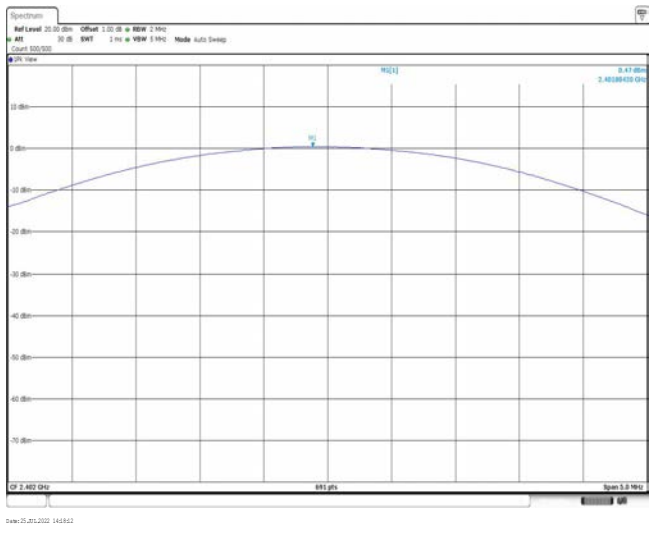
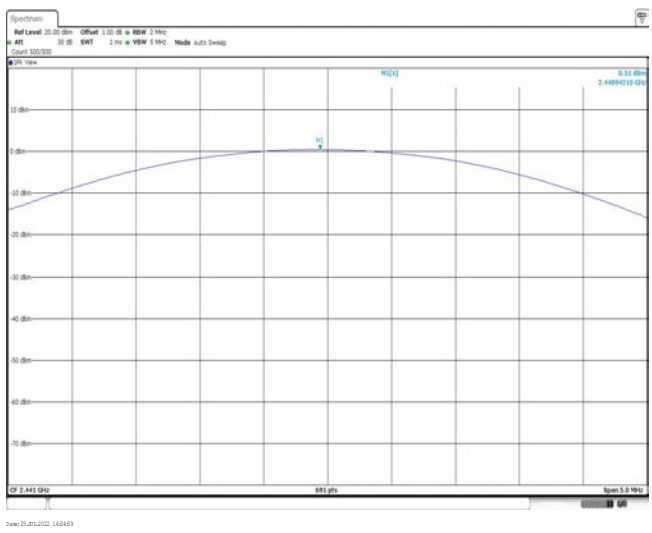
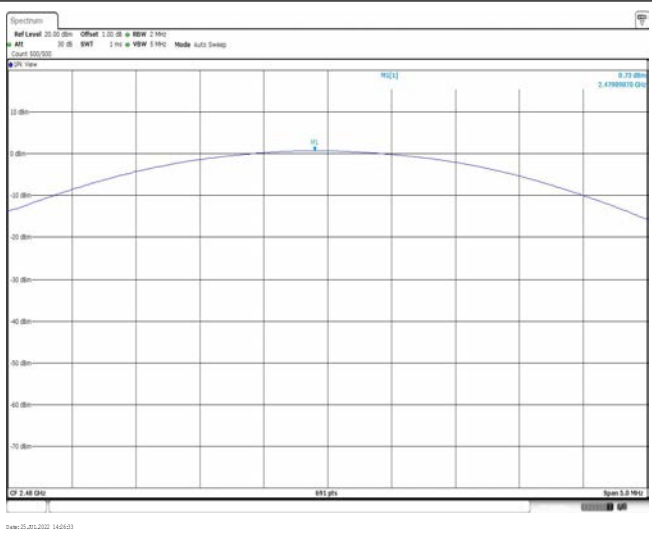
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	-1.97	-1.98	≤ 30.00	Pass
	39	-1.67	-1.75		
	78	-1.40	-1.46		
$\pi/4$ DQPSK	00	-0.01	-1.02	≤ 21.00	Pass
	39	0.05	-1.84		
	78	0.31	-1.96		
8DPSK	00	0.47	-1.00	≤ 21.00	Pass
	39	0.51	-0.93		
	78	0.73	-0.70		

Modulation Type:	GFSK
CH00	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] -1.97 dBm 2.40181910 GHz CF 2.402 GHz 691 pts Span 5.0 MHz Date: 25 JUL 2022 13:47:56
CH39	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] -1.67 dBm 2.40080000 GHz CF 2.401 GHz 691 pts Span 5.0 MHz Date: 25 JUL 2022 13:51:09
CH78	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View M1[1] -1.40 dBm 2.40080000 GHz CF 2.40 GHz 691 pts Span 5.0 MHz Date: 25 JUL 2022 14:01:30

Modulation Type:	$\pi/4$ DQPSK
CH00	 Frequency: 2.402 GHz Power: 0 dBm Bandwidth: 5.0 MHz
CH39	 Frequency: 2.443 GHz Power: 0 dBm Bandwidth: 5.0 MHz
CH78	 Frequency: 2.484 GHz Power: 0 dBm Bandwidth: 5.0 MHz

Modulation Type:	8DPSK
CH00	
CH39	
CH78	

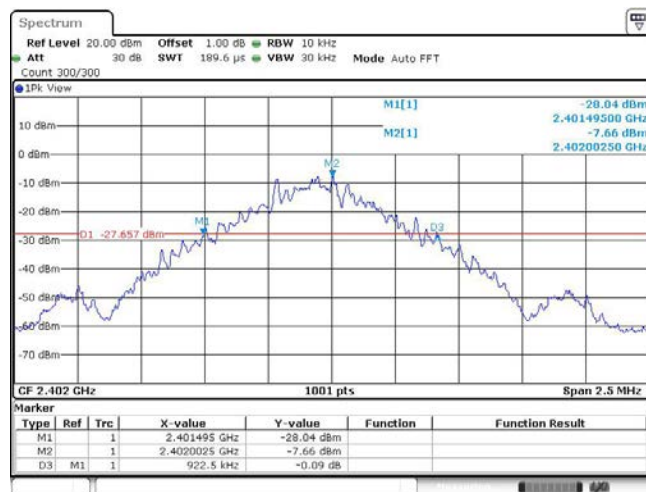
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	922.50	-	Pass
	39	925.00		
	78	925.00		
$\pi/4$ DQPSK	00	1282.50	-	Pass
	39	1282.50		
	78	1285.00		
8DPSK	00	1290.00	-	Pass
	39	1292.50		
	78	1292.50		

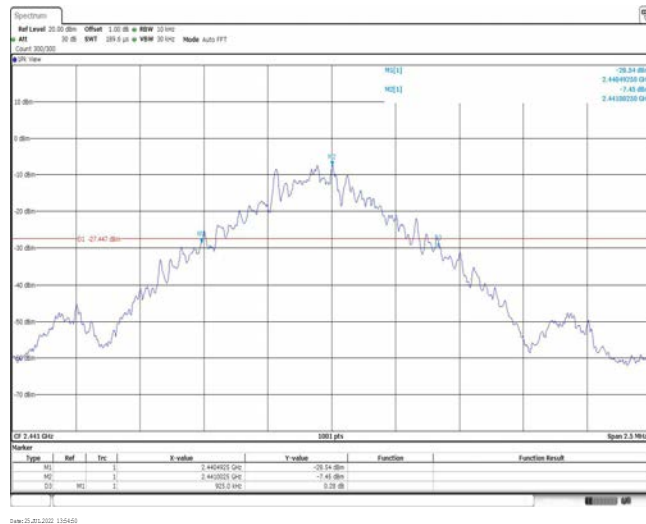
Modulation Type:

GFSK

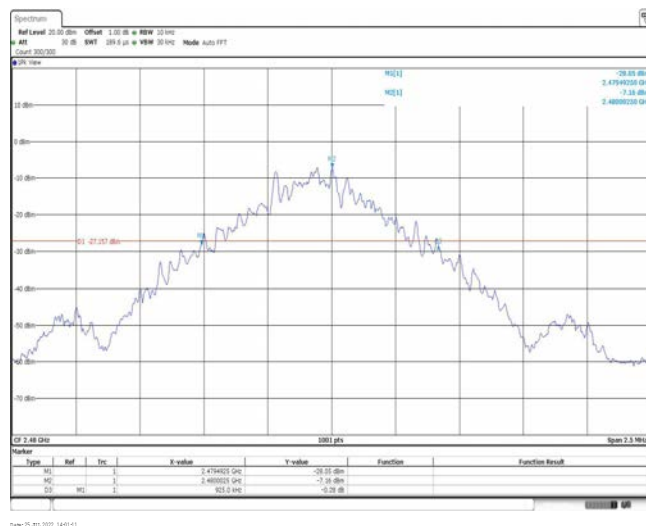
CH00



CH39



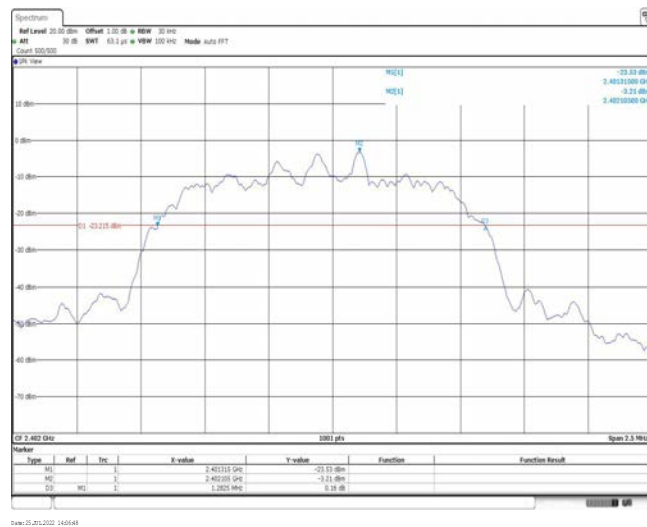
CH78



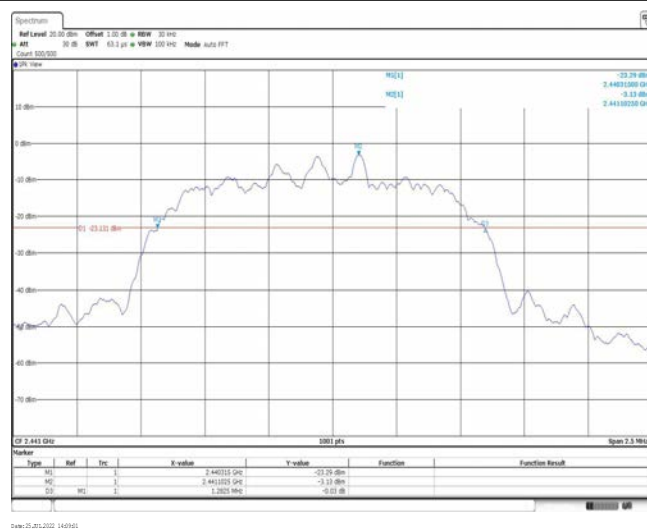
Modulation Type:

 $\pi/4$ DQPSK

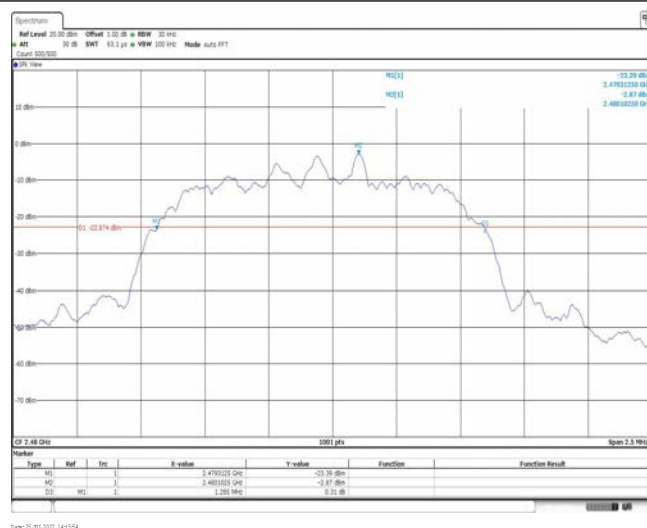
CH00

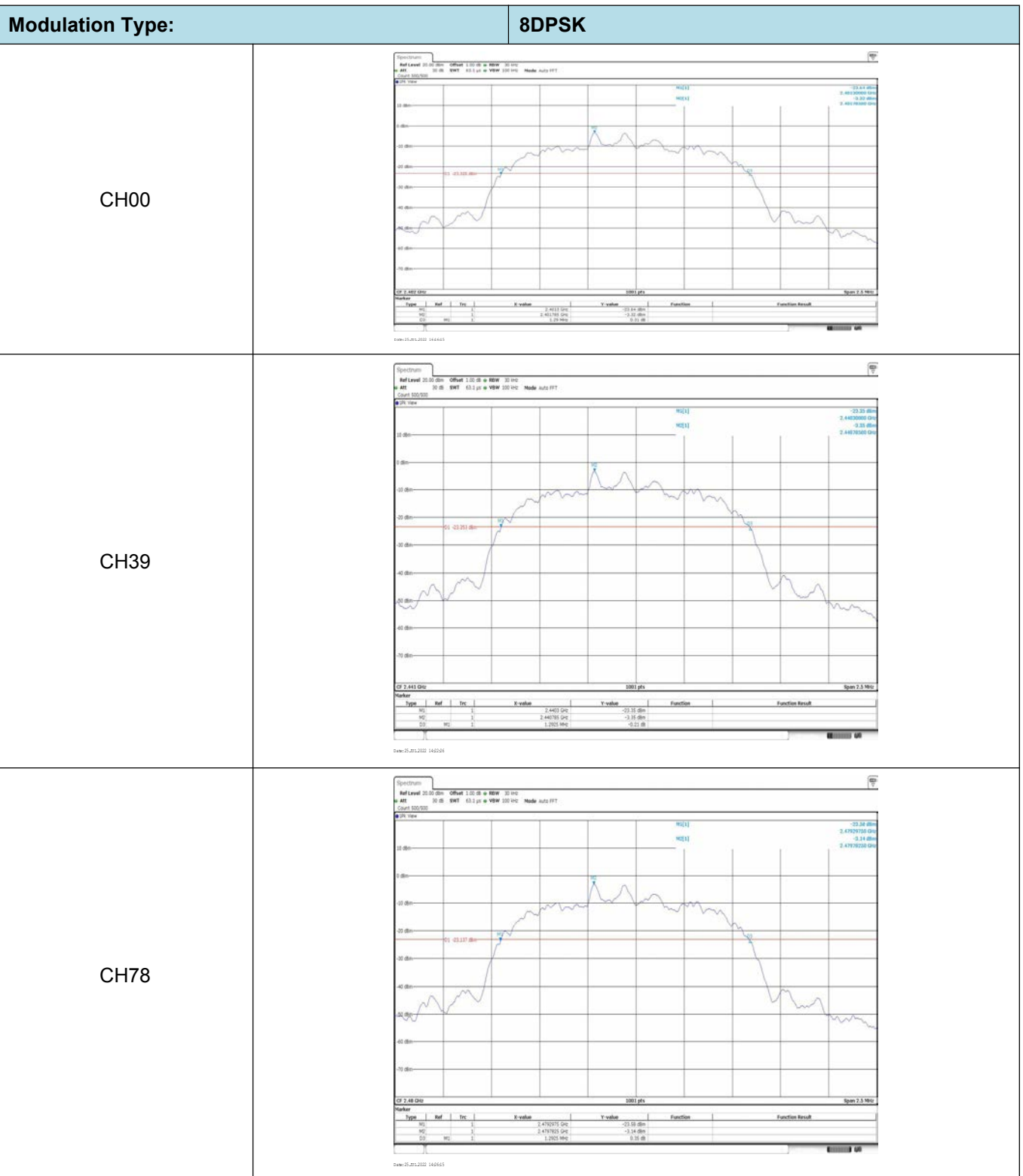


CH39



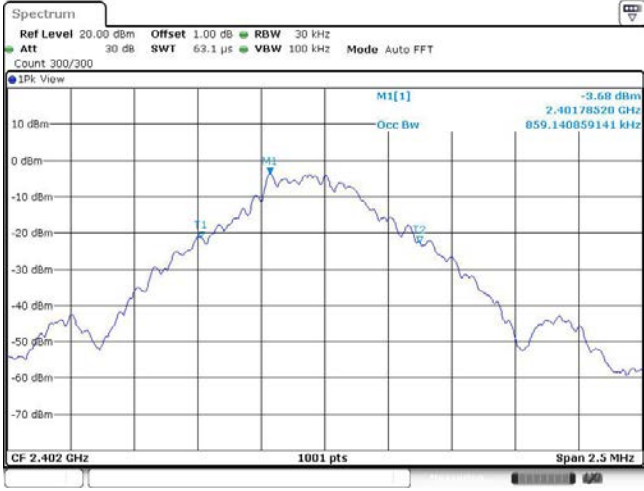
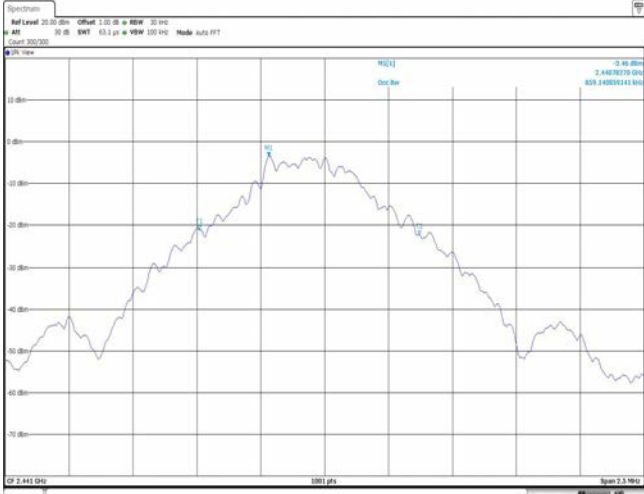
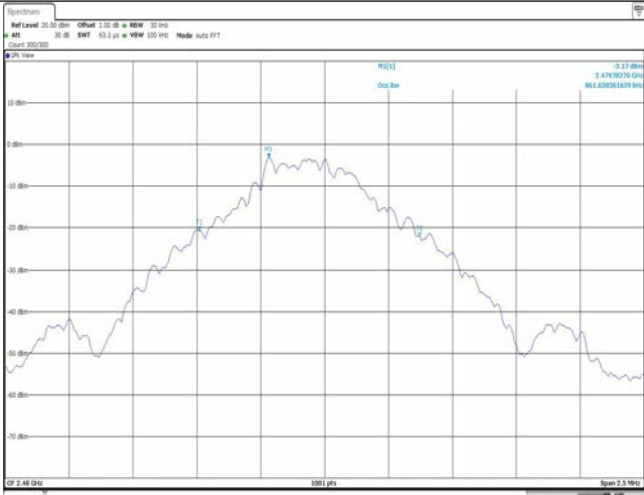
CH78

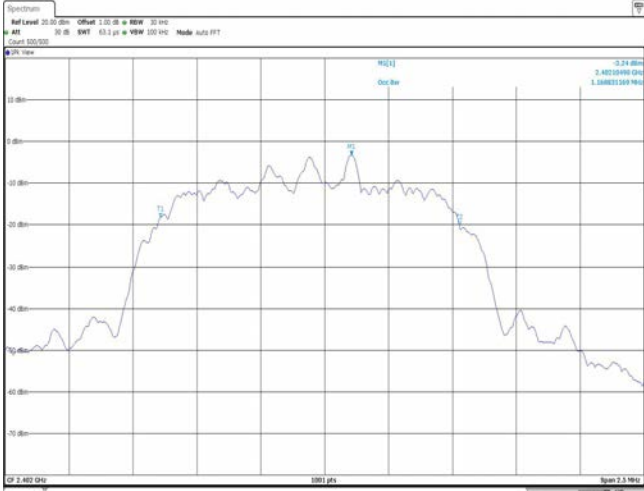
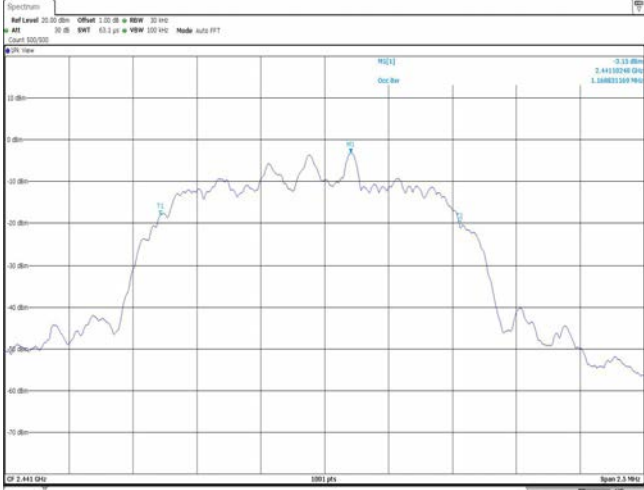
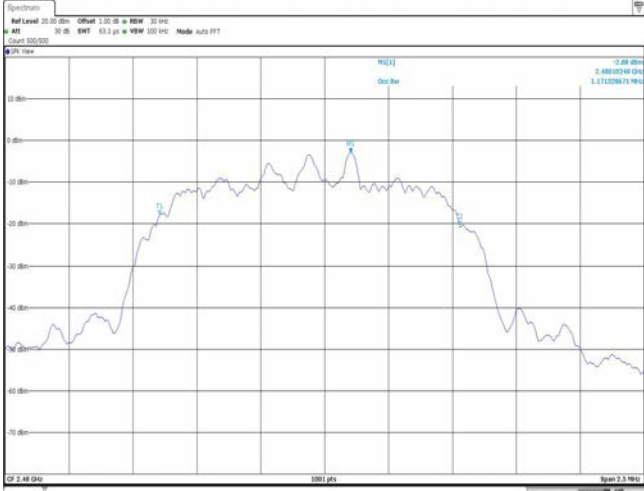




Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.86	-	Pass
	39	0.86		
	78	0.86		
$\pi/4$ DQPSK	00	1.17	-	Pass
	39	1.17		
	78	1.17		
8DPSK	00	1.18	-	Pass
	39	1.17		
	78	1.17		

Modulation Type:	GFSK
CH00	 Date: 25 JUL 2022 13:51:56
CH39	 Date: 25 JUL 2022 13:54:01
CH78	 Date: 25 JUL 2022 14:01:01

Modulation Type:	$\pi/4$ DQPSK
CH00	 File: 15_01_2012_145621
CH39	 File: 15_01_2012_145621
CH78	 File: 15_01_2012_145621

Modulation Type:

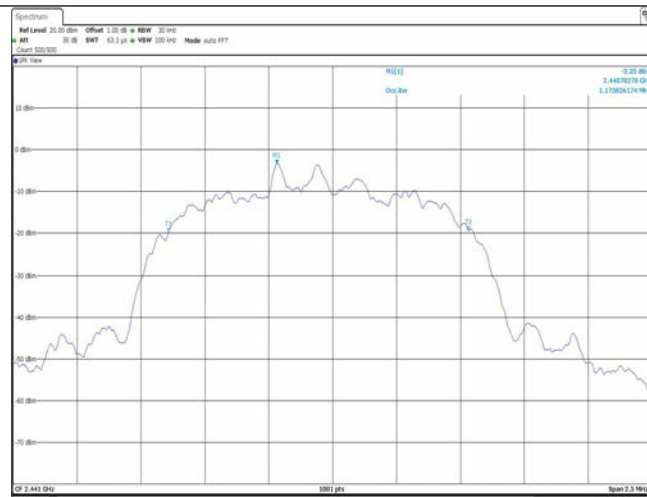
8DPSK

CH00



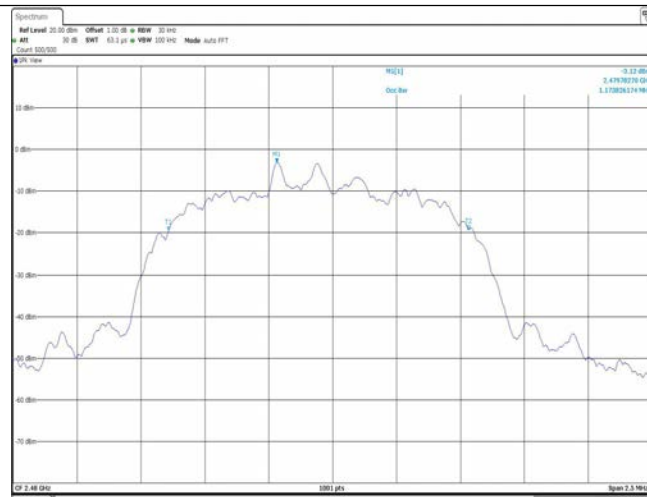
Date: 26.07.2022 14:01:38

CH39



Date: 26.07.2022 14:02:04

CH78



Date: 26.07.2022 14:02:04

Appendix D: Carrier Frequencies Separation

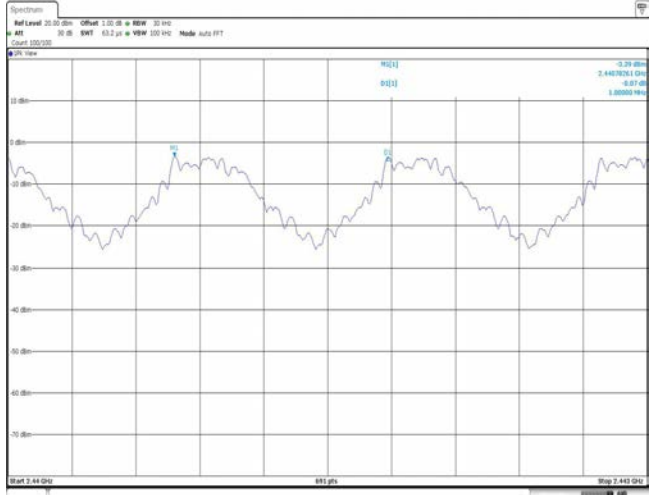
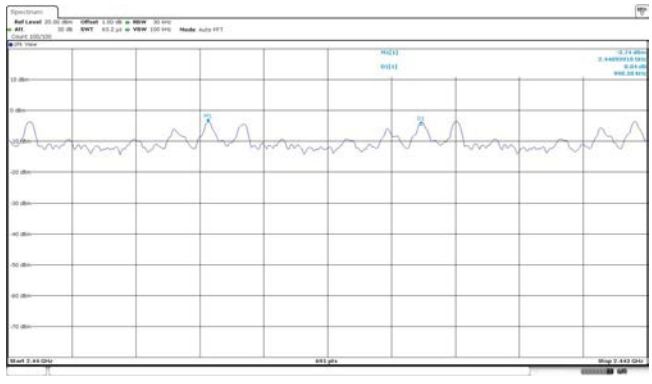
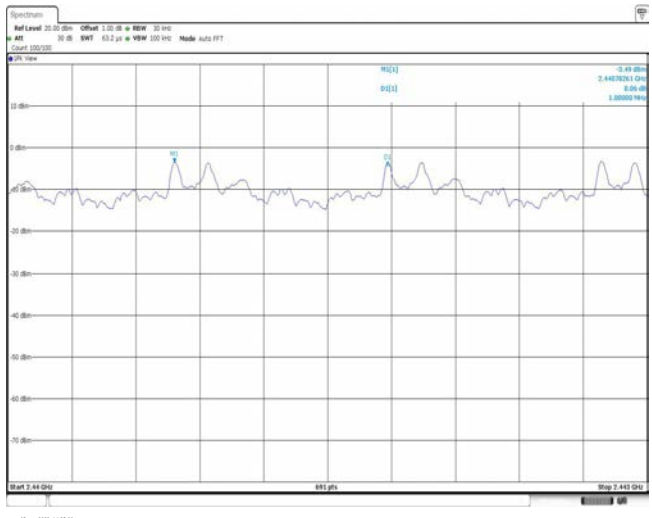
Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥925.00	Pass
π/4DQPSK	39	1.00	≥856.67	Pass
8DPSK	39	1.00	≥863.33	Pass

Note:

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

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

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

GFSK	 Spectrum Ref Level: 20.00 dBm Offset: 1.00 GHz BW: 30 kHz SMT: 0.2 µs VMW: 100 kHz Mode: Auto FFT Count: 1000000 Peak: -12.29 dBm 2.44070261 GHz 0.00 dB 1.000000 MHz Start: 2.44 GHz Stop: 2.445 GHz Date: 20.01.2022 14:50:01
$\pi/4$ DQPSK	 Spectrum Ref Level: 20.00 dBm Offset: 1.00 GHz BW: 30 kHz SMT: 0.2 µs VMW: 100 kHz Mode: Auto FFT Count: 1000000 Peak: -12.74 dBm 2.44070261 GHz 0.00 dB 1.000000 MHz Start: 2.44 GHz Stop: 2.445 GHz Date: 20.01.2022 14:50:03
8DPSK	 Spectrum Ref Level: 20.00 dBm Offset: 1.00 GHz BW: 30 kHz SMT: 0.2 µs VMW: 100 kHz Mode: Auto FFT Count: 1000000 Peak: -12.49 dBm 2.44070261 GHz 0.00 dB 1.000000 MHz Start: 2.44 GHz Stop: 2.445 GHz Date: 20.01.2022 14:50:03

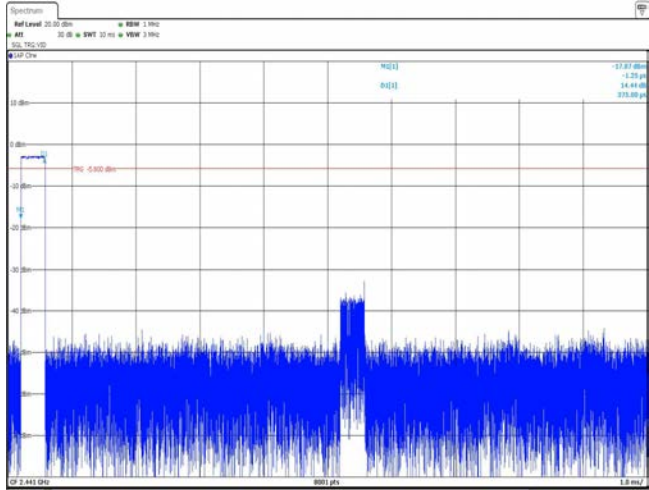
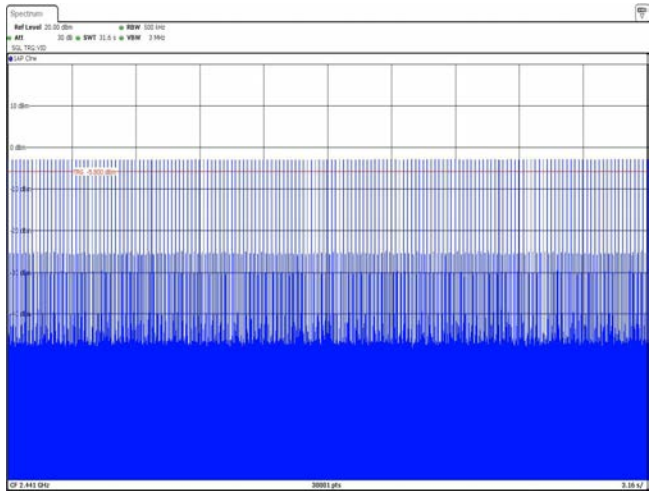
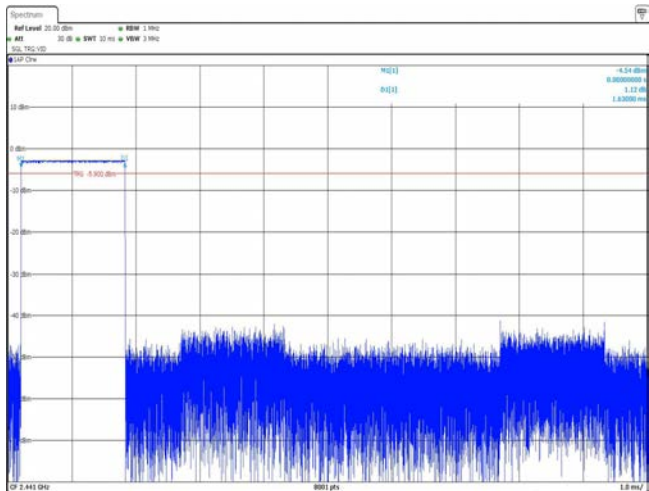
Appendix E: Hopping Channel Number

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

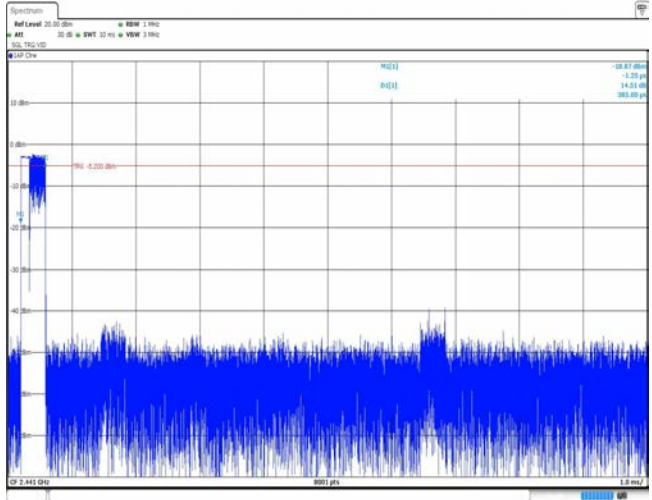
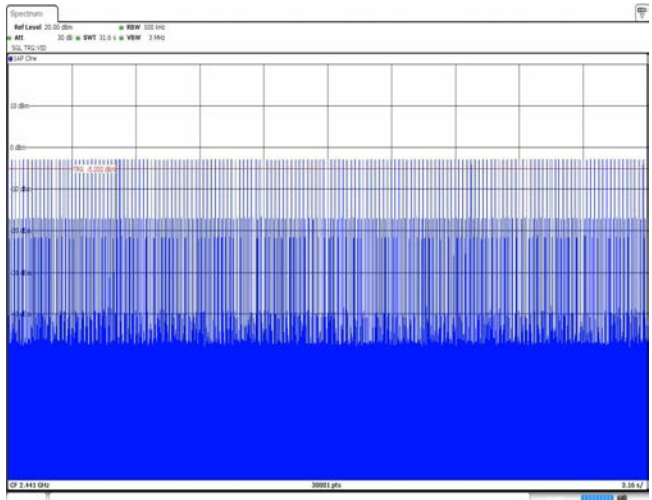
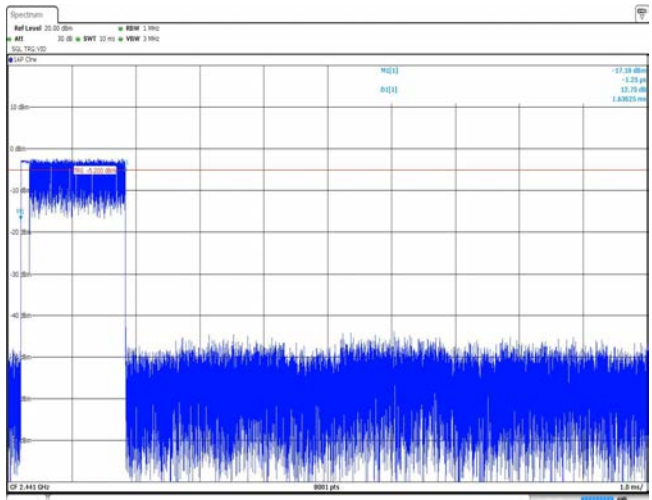
Appendix report page: 17 of 41

Appendix F: Dwell Time

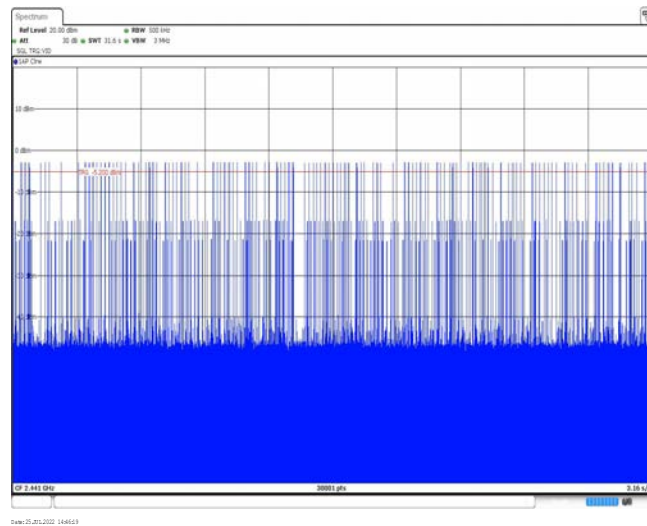
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	319	0.12	≤ 0.40	Pass
	DH3	1.63	146	0.24		
	DH5	2.88	107	0.31		
$\pi/4$ DQPSK	2DH1	0.38	315	0.12	≤ 0.40	Pass
	2DH3	1.64	163	0.27		
	2DH5	2.88	111	0.32		
8DPSK	3DH1	0.38	316	0.12	≤ 0.40	Pass
	3DH3	1.64	155	0.25		
	3DH5	2.89	109	0.32		

Modulation Type:	GFSK
DH1 Burst width	 The spectrum plot shows a signal at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red horizontal line indicates a power level of -5.00 dBm. The signal is a burst of energy, with a peak power of approximately -1.00 dBm. The plot is labeled 'Spectrum' and 'Ref Level: 20.00 dBm'. The date and time are 20.01.2022 14:45:27.
DH1 Burst number	 The spectrum plot shows a signal at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red horizontal line indicates a power level of -5.00 dBm. The signal is a burst of energy, with a peak power of approximately -1.00 dBm. The plot is labeled 'Spectrum' and 'Ref Level: 20.00 dBm'. The date and time are 20.01.2022 14:45:27.
DH3 Burst width	 The spectrum plot shows a signal at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red horizontal line indicates a power level of -5.00 dBm. The signal is a burst of energy, with a peak power of approximately -1.00 dBm. The plot is labeled 'Spectrum' and 'Ref Level: 20.00 dBm'. The date and time are 20.01.2022 14:45:27.

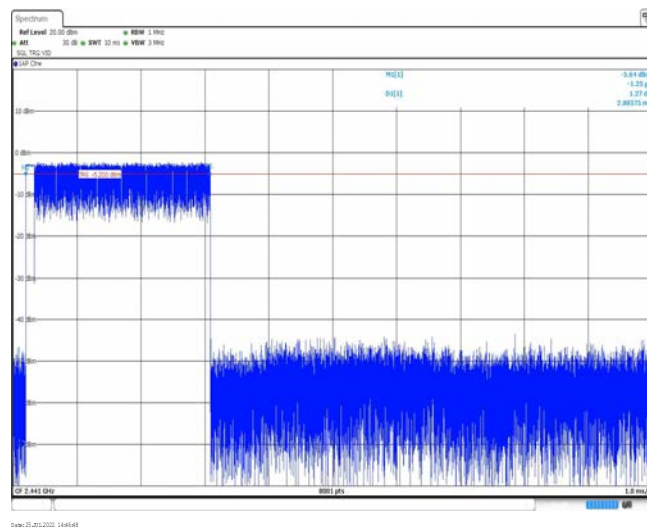
Appendix report page: 20 of 41

Modulation Type:	$\pi/4$ DQPSK
2DH1 Burst width	 The spectrum plot shows a signal with a peak at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. The plot shows a narrowband signal with a bandwidth of approximately 1.0 MHz. The signal is centered at 2.445 GHz. The plot also shows a noise floor at approximately -50 dBm.
2DH1 Burst number	 The spectrum plot shows a signal with a peak at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. The plot shows a narrowband signal with a bandwidth of approximately 1.0 MHz. The signal is centered at 2.445 GHz. The plot also shows a noise floor at approximately -50 dBm.
2DH3 Burst width	 The spectrum plot shows a signal with a peak at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. The plot shows a narrowband signal with a bandwidth of approximately 1.0 MHz. The signal is centered at 2.445 GHz. The plot also shows a noise floor at approximately -50 dBm.

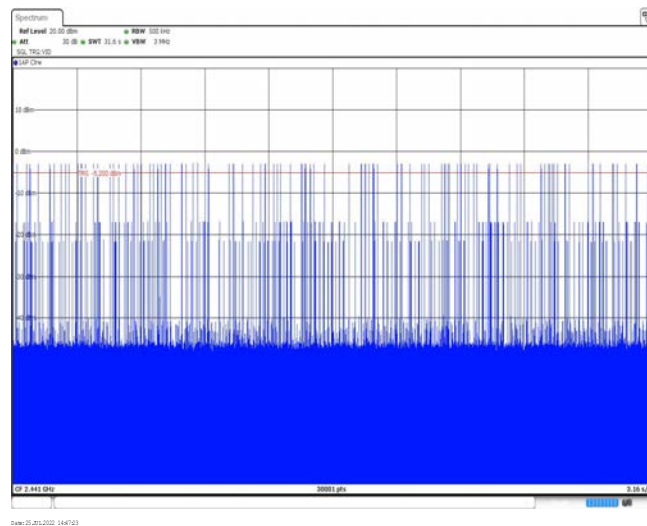
2DH3
Burst number

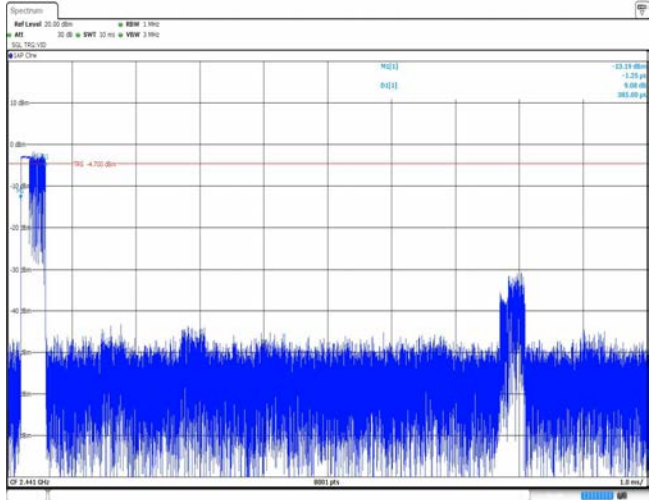
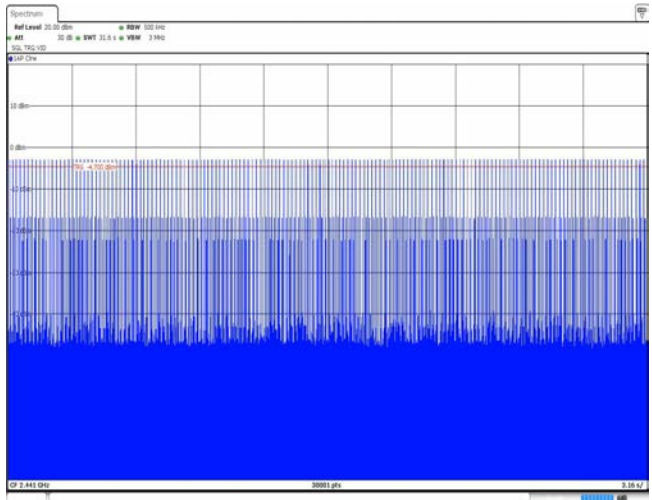
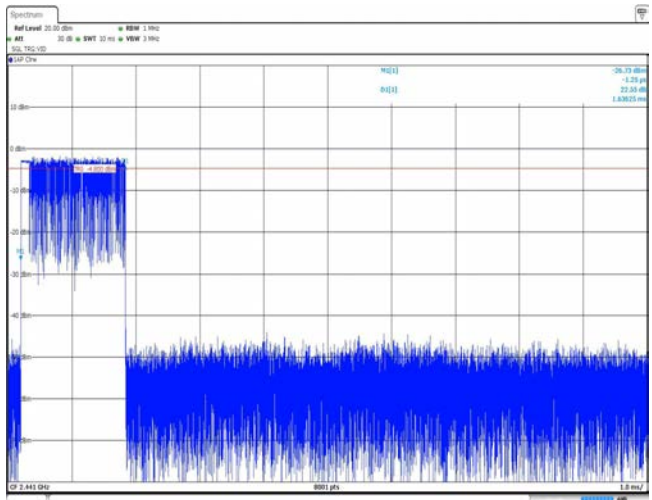


2DH5
Burst width

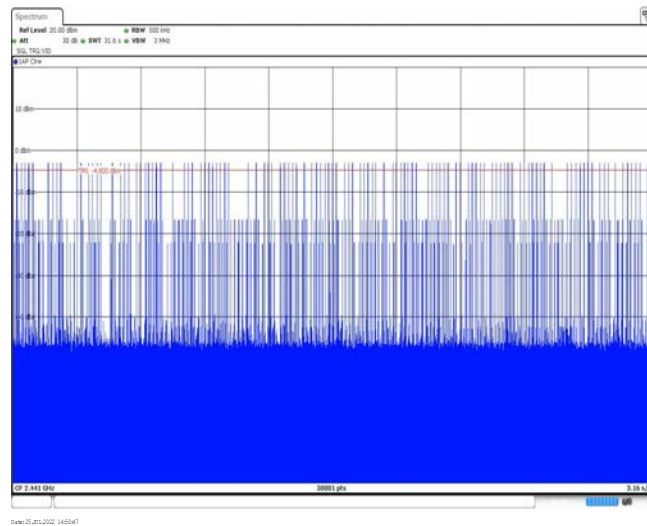


2DH5
Burst number

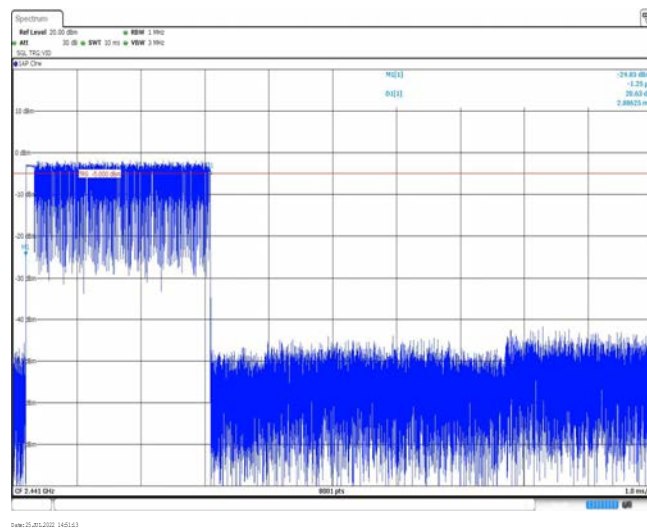


Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a signal centered at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red line indicates a peak power level of -4.700 dBm. The signal is characterized by a narrow, sharp burst of energy. File: 20_01_2022_144903
3DH1 Burst number	 The spectrum plot shows a signal centered at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red line indicates a peak power level of -4.700 dBm. The signal is characterized by a dense, continuous burst of energy. File: 20_01_2022_144941
3DH3 Burst width	 The spectrum plot shows a signal centered at 2.445 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in MHz, ranging from 2.440 to 2.450. A red line indicates a peak power level of -4.700 dBm. The signal is characterized by a narrow, sharp burst of energy. File: 20_01_2022_145042

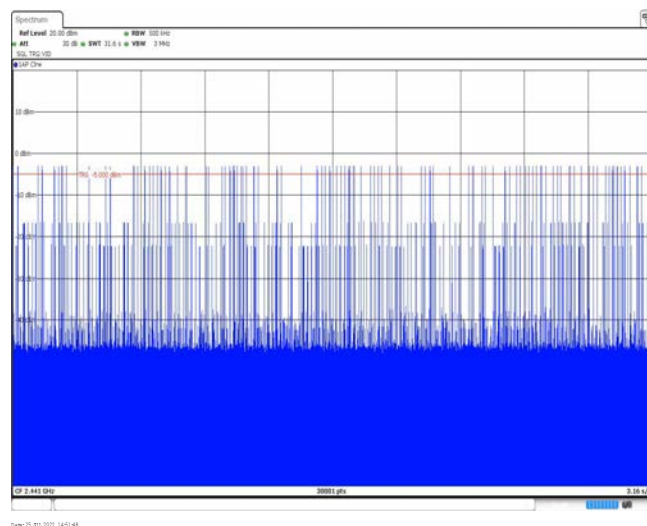
3DH3
Burst number



3DH5
Burst width



3DH5
Burst number

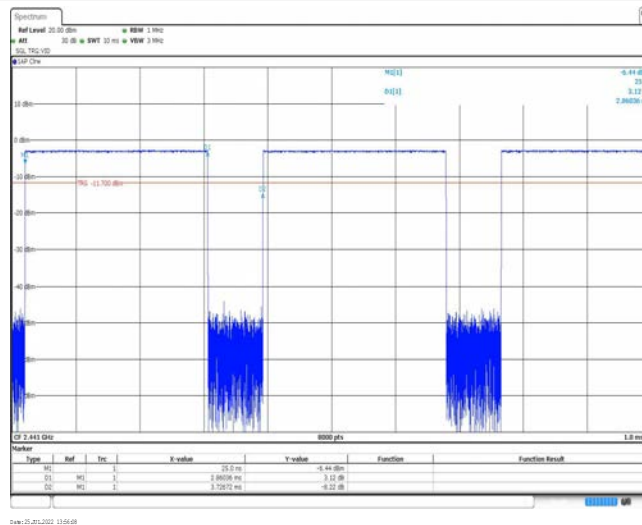


Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

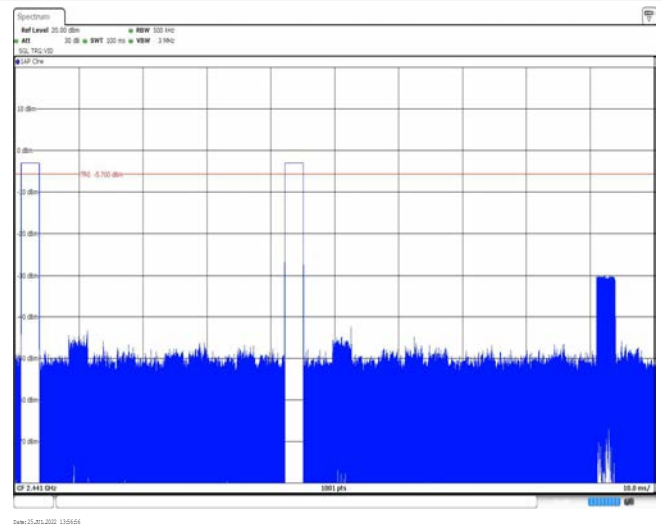
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

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	2	-24.82
8DPSK	2441	2.87	100	2	-24.82

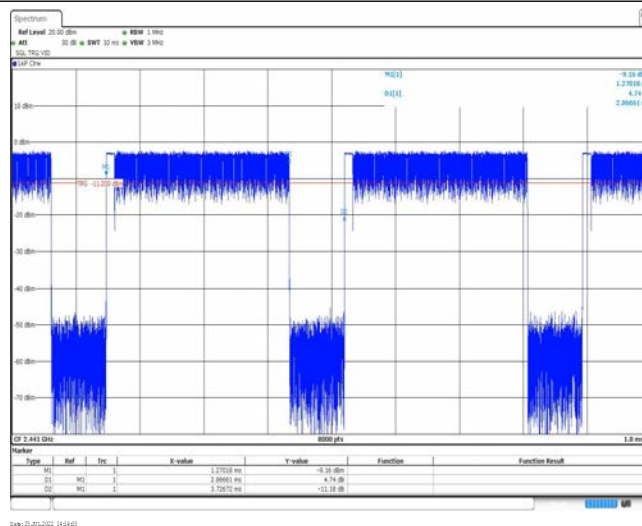
GFSK



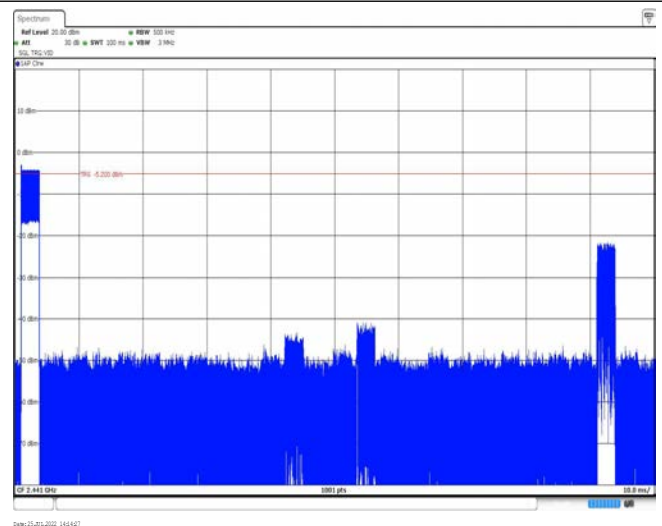
Ton time for single burst



Burst Quantity

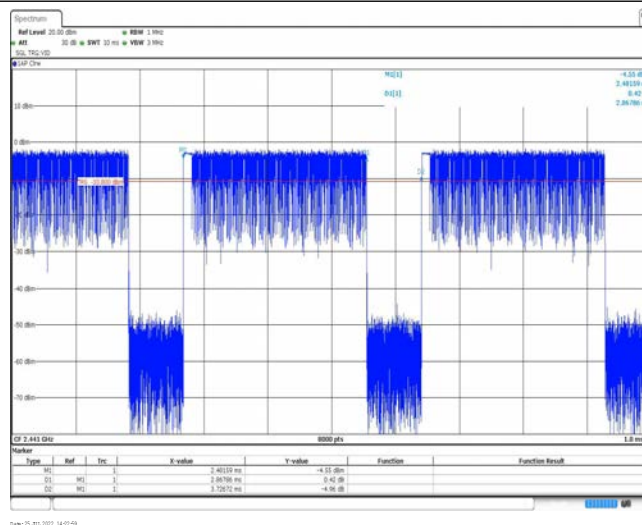
 $\pi/4$ DQPSK

Ton time for single burst

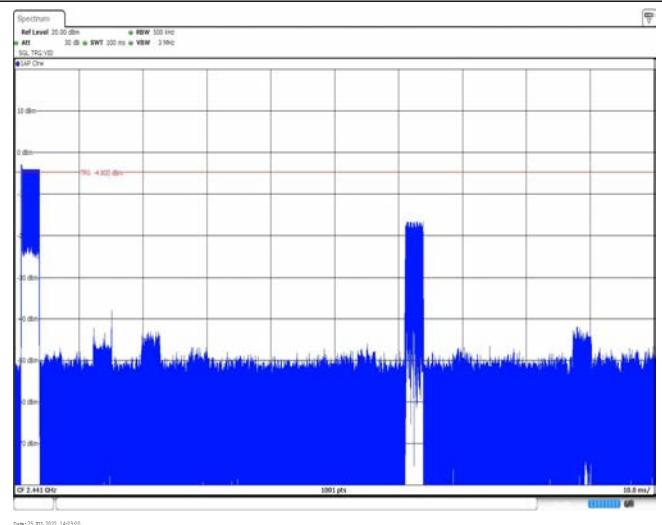


Burst Quantity

8DPSK

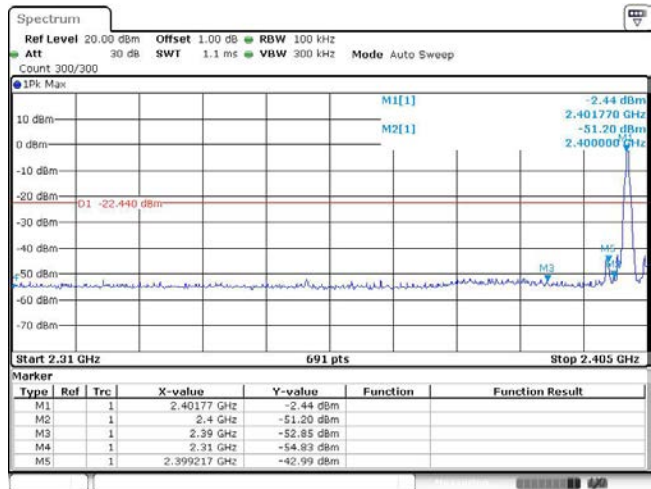
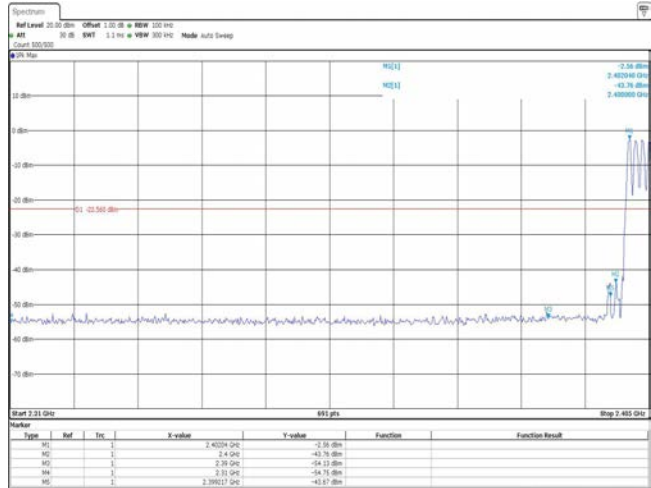
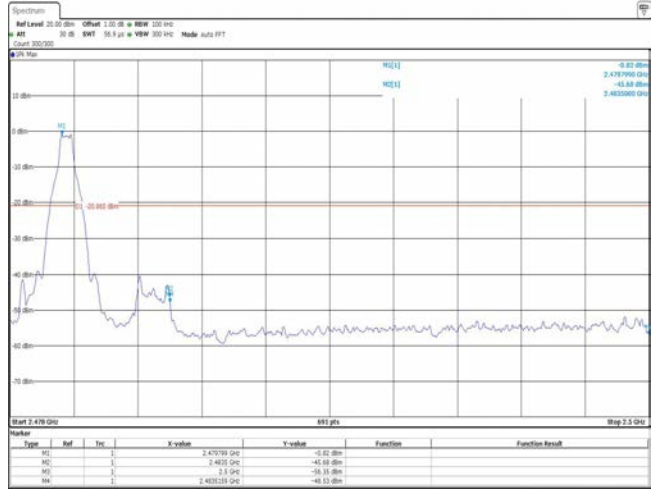


Ton time for single burst

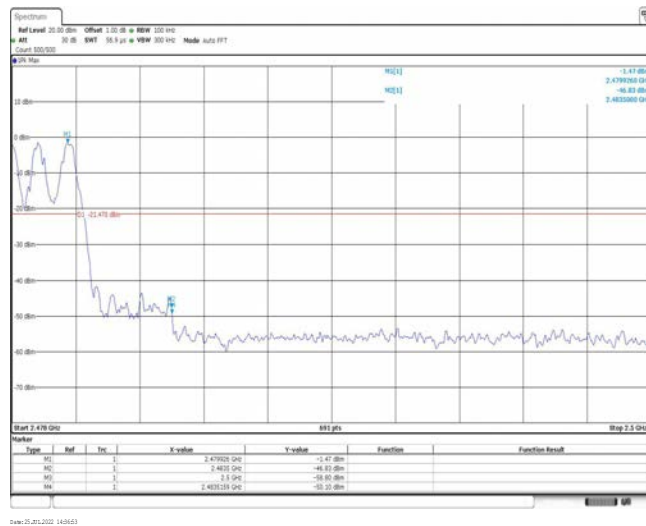


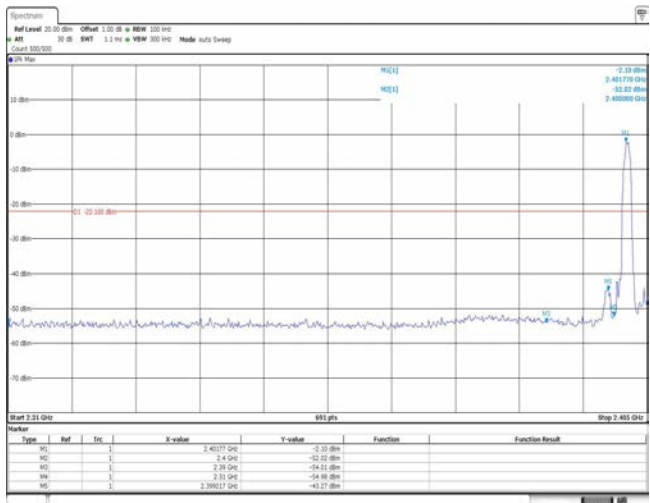
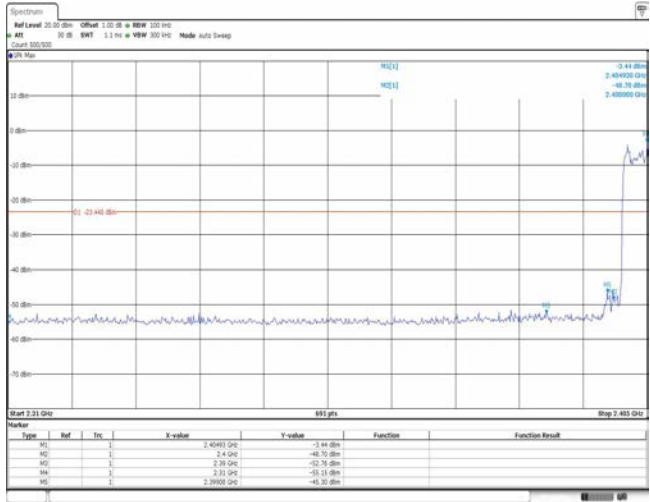
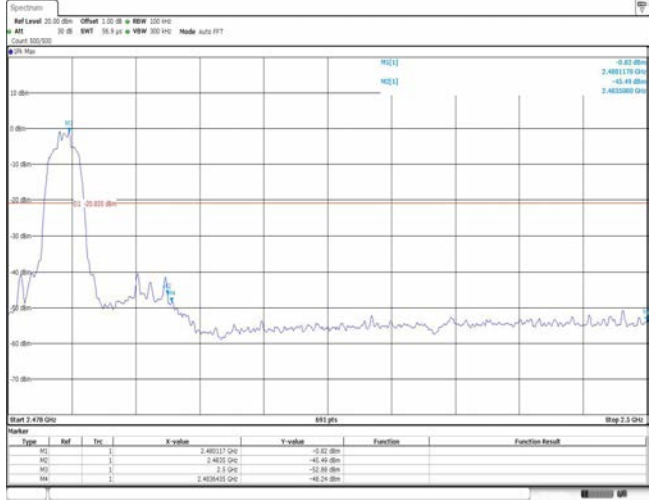
Burst Quantity

Appendix H: Band edge and Spurious Emissions (conducted)

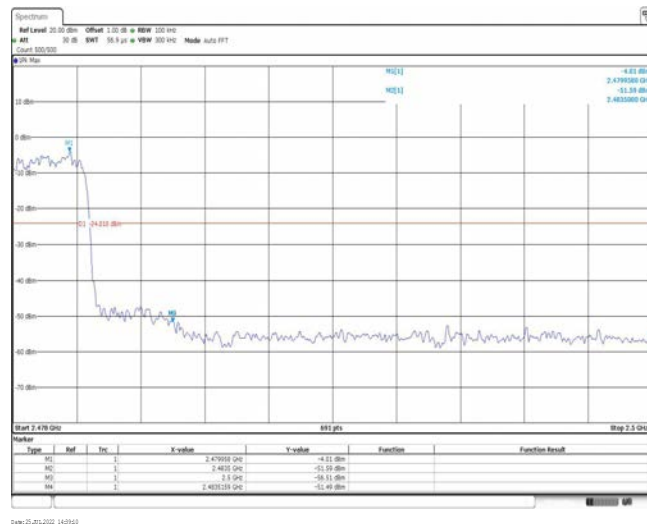
Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	 Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40177 GHz</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.20 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.85 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.83 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399217 GHz</td><td>-42.99 dBm</td><td></td><td></td></tr></table> Date: 25 JUL 2022 13:52:09	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	-2.44 dBm			M2	1		2.4 GHz	-51.20 dBm			M3	1		2.39 GHz	-52.85 dBm			M4	1		2.31 GHz	-54.83 dBm			M5	1		2.399217 GHz	-42.99 dBm				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40177 GHz	-2.44 dBm																																									
M2	1		2.4 GHz	-51.20 dBm																																									
M3	1		2.39 GHz	-52.85 dBm																																									
M4	1		2.31 GHz	-54.83 dBm																																									
M5	1		2.399217 GHz	-42.99 dBm																																									
CH00 Hopping mode	 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>2.40177 GHz</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.20 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.85 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.83 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399217 GHz</td><td>-42.99 dBm</td><td></td><td></td></tr></table> Date: 25 JUL 2022 14:03:08	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	-2.44 dBm			M2	1		2.4 GHz	-51.20 dBm			M3	1		2.39 GHz	-52.85 dBm			M4	1		2.31 GHz	-54.83 dBm			M5	1		2.399217 GHz	-42.99 dBm				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40177 GHz	-2.44 dBm																																									
M2	1		2.4 GHz	-51.20 dBm																																									
M3	1		2.39 GHz	-52.85 dBm																																									
M4	1		2.31 GHz	-54.83 dBm																																									
M5	1		2.399217 GHz	-42.99 dBm																																									
CH78 No hopping mode	 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>2.40177 GHz</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.20 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.85 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.83 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399217 GHz</td><td>-42.99 dBm</td><td></td><td></td></tr></table> Date: 25 JUL 2022 14:03:05	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	-2.44 dBm			M2	1		2.4 GHz	-51.20 dBm			M3	1		2.39 GHz	-52.85 dBm			M4	1		2.31 GHz	-54.83 dBm			M5	1		2.399217 GHz	-42.99 dBm				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40177 GHz	-2.44 dBm																																									
M2	1		2.4 GHz	-51.20 dBm																																									
M3	1		2.39 GHz	-52.85 dBm																																									
M4	1		2.31 GHz	-54.83 dBm																																									
M5	1		2.399217 GHz	-42.99 dBm																																									

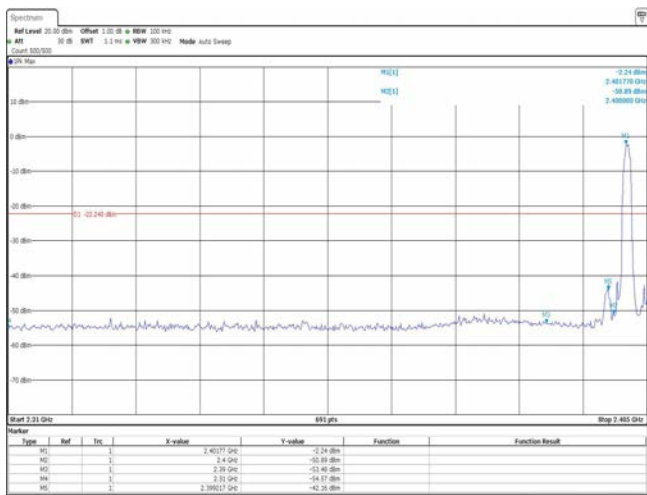
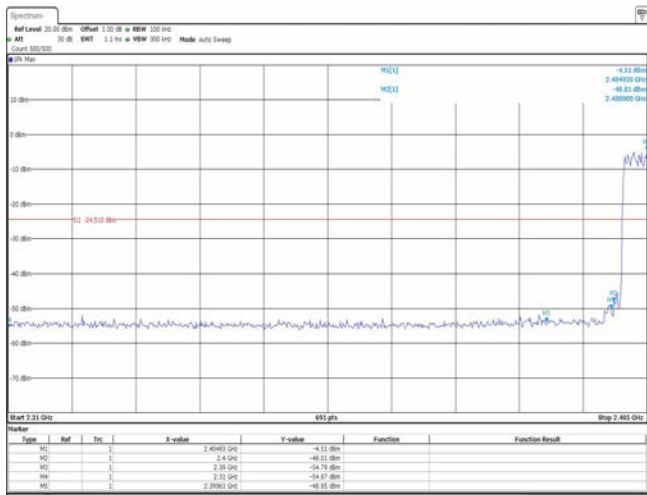
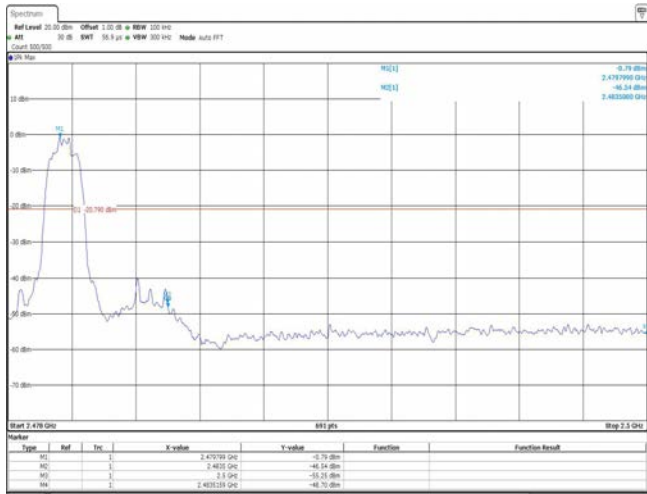
CH78
Hopping mode



Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
CH00 No hopping mode	<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>MC</td><td>1</td><td>1</td><td>2.40277 GHz</td><td>-2.33 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-52.20 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-54.81 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-54.81 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39017 GHz</td><td>-41.27 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:05:04			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40277 GHz	-2.33 dBm			MC	1	1	2.4 GHz	-52.20 dBm			MC	1	1	2.39 GHz	-54.81 dBm			MC	1	1	2.31 GHz	-54.81 dBm			MC	1	1	2.39017 GHz	-41.27 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
MC	1	1	2.40277 GHz	-2.33 dBm																																									
MC	1	1	2.4 GHz	-52.20 dBm																																									
MC	1	1	2.39 GHz	-54.81 dBm																																									
MC	1	1	2.31 GHz	-54.81 dBm																																									
MC	1	1	2.39017 GHz	-41.27 dBm																																									
CH00 Hopping mode	<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>MC</td><td>1</td><td>1</td><td>2.40403 GHz</td><td>-3.44 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-48.70 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-52.76 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-53.13 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39008 GHz</td><td>-48.50 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:05:04			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40403 GHz	-3.44 dBm			MC	1	1	2.4 GHz	-48.70 dBm			MC	1	1	2.39 GHz	-52.76 dBm			MC	1	1	2.31 GHz	-53.13 dBm			MC	1	1	2.39008 GHz	-48.50 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
MC	1	1	2.40403 GHz	-3.44 dBm																																									
MC	1	1	2.4 GHz	-48.70 dBm																																									
MC	1	1	2.39 GHz	-52.76 dBm																																									
MC	1	1	2.31 GHz	-53.13 dBm																																									
MC	1	1	2.39008 GHz	-48.50 dBm																																									
CH78 No hopping mode	<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>MC</td><td>1</td><td>1</td><td>2.40017 GHz</td><td>-5.02 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4003 GHz</td><td>-45.49 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-52.89 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.400403 GHz</td><td>-48.24 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:05:09			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40017 GHz	-5.02 dBm			MC	1	1	2.4003 GHz	-45.49 dBm			MC	1	1	2.31 GHz	-52.89 dBm			MC	1	1	2.400403 GHz	-48.24 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
MC	1	1	2.40017 GHz	-5.02 dBm																																									
MC	1	1	2.4003 GHz	-45.49 dBm																																									
MC	1	1	2.31 GHz	-52.89 dBm																																									
MC	1	1	2.400403 GHz	-48.24 dBm																																									

CH78
Hopping mode



Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	<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>MC</td><td>1</td><td>1</td><td>2.40277 GHz</td><td>-2.24 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-50.24 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-51.40 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-54.17 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39017 GHz</td><td>-42.10 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:51:02			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40277 GHz	-2.24 dBm			MC	1	1	2.4 GHz	-50.24 dBm			MC	1	1	2.39 GHz	-51.40 dBm			MC	1	1	2.31 GHz	-54.17 dBm			MC	1	1	2.39017 GHz	-42.10 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
MC	1	1	2.40277 GHz	-2.24 dBm																																									
MC	1	1	2.4 GHz	-50.24 dBm																																									
MC	1	1	2.39 GHz	-51.40 dBm																																									
MC	1	1	2.31 GHz	-54.17 dBm																																									
MC	1	1	2.39017 GHz	-42.10 dBm																																									
CH00 Hopping mode	<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>MC</td><td>1</td><td>1</td><td>2.40403 GHz</td><td>-4.11 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.4 GHz</td><td>-48.11 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39 GHz</td><td>-54.16 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-54.17 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.39017 GHz</td><td>-48.11 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:40:29			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.40403 GHz	-4.11 dBm			MC	1	1	2.4 GHz	-48.11 dBm			MC	1	1	2.39 GHz	-54.16 dBm			MC	1	1	2.31 GHz	-54.17 dBm			MC	1	1	2.39017 GHz	-48.11 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
MC	1	1	2.40403 GHz	-4.11 dBm																																									
MC	1	1	2.4 GHz	-48.11 dBm																																									
MC	1	1	2.39 GHz	-54.16 dBm																																									
MC	1	1	2.31 GHz	-54.17 dBm																																									
MC	1	1	2.39017 GHz	-48.11 dBm																																									
CH78 No hopping mode	<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>MC</td><td>1</td><td>1</td><td>2.47579 GHz</td><td>-5.75 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.402 GHz</td><td>-48.11 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.31 GHz</td><td>-55.11 dBm</td><td></td><td></td></tr><tr><td>MC</td><td>1</td><td>1</td><td>2.402128 GHz</td><td>-48.70 dBm</td><td></td><td></td></tr></table> date:20.01.2022 14:07:55			Type	Ref	Trc	X-value	Y-value	Function	Function Result	MC	1	1	2.47579 GHz	-5.75 dBm			MC	1	1	2.402 GHz	-48.11 dBm			MC	1	1	2.31 GHz	-55.11 dBm			MC	1	1	2.402128 GHz	-48.70 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
MC	1	1	2.47579 GHz	-5.75 dBm																																									
MC	1	1	2.402 GHz	-48.11 dBm																																									
MC	1	1	2.31 GHz	-55.11 dBm																																									
MC	1	1	2.402128 GHz	-48.70 dBm																																									

Keysight ADS

Ref Level: 20.00 dBm Offset: 2.00 dB to dBm 100 MHz

Alt: 30 dB SWR 16.3 μs at VSWR 300 kHz Mode: Auto FFT

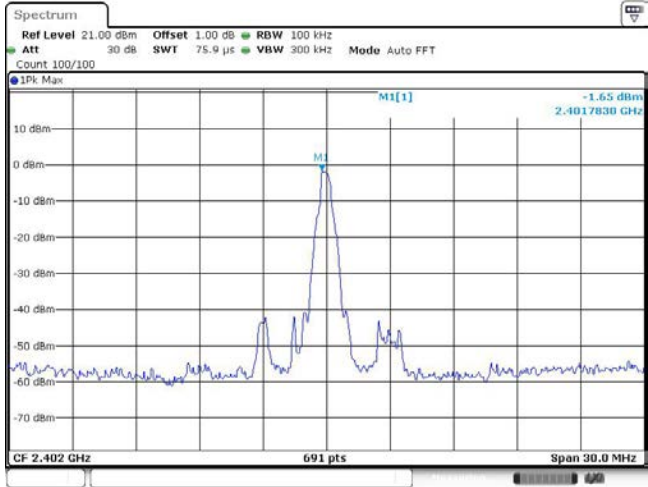
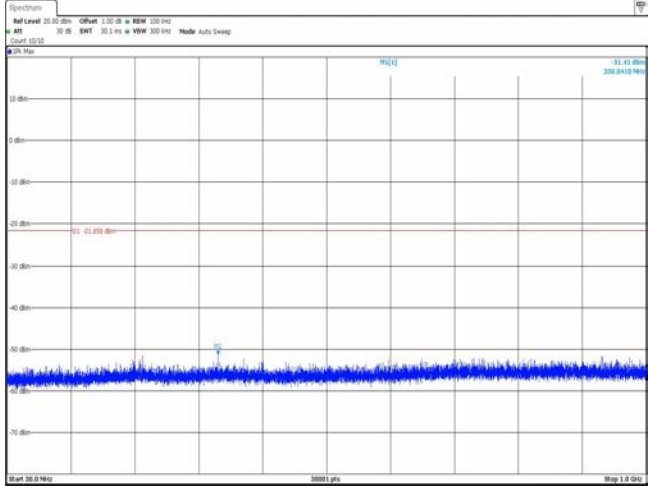
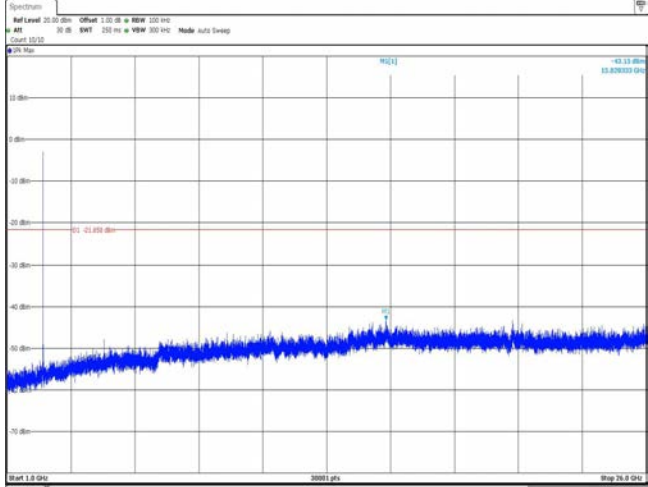
Chart: S11 (dB)

S11 (dB)

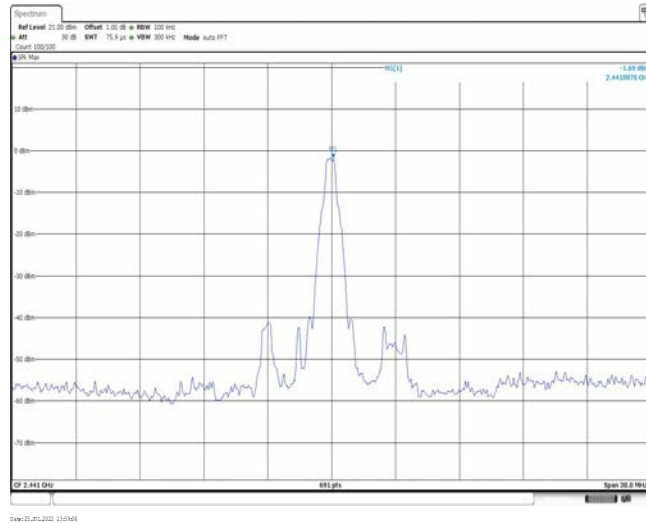
GHz

Start: 2.410 GHz Stop: 2.5 GHz

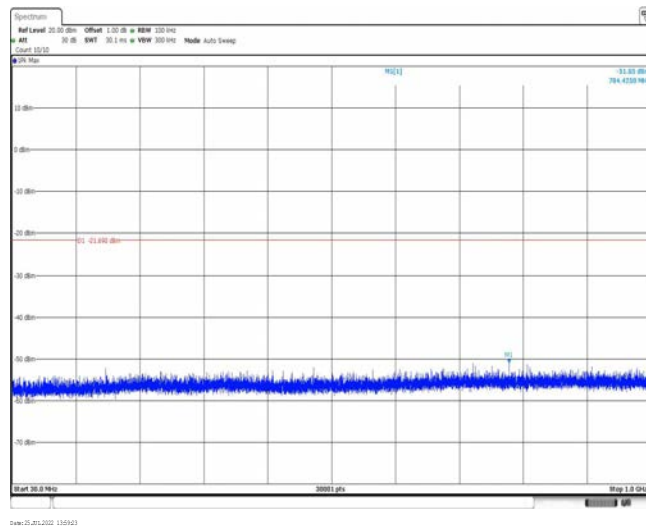
Type	Ref	Pre	X-value	Y-value	Function	Function Result
S11	1		2.47000 GHz	-2.63 dBm		
S11	1		2.49500 GHz	-32.14 dBm		
S11	1		2.5 GHz	-51.33 dBm		
S11	1		2.50000 GHz	-51.11 dBm		

Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level	 Date: 25 JUL 2022 13:52:17		
CH00 30MHz~1000MHz	 Date: 25 JUL 2022 13:52:17		
CH00 1GHz~26GHz	 Date: 25 JUL 2022 13:52:17		

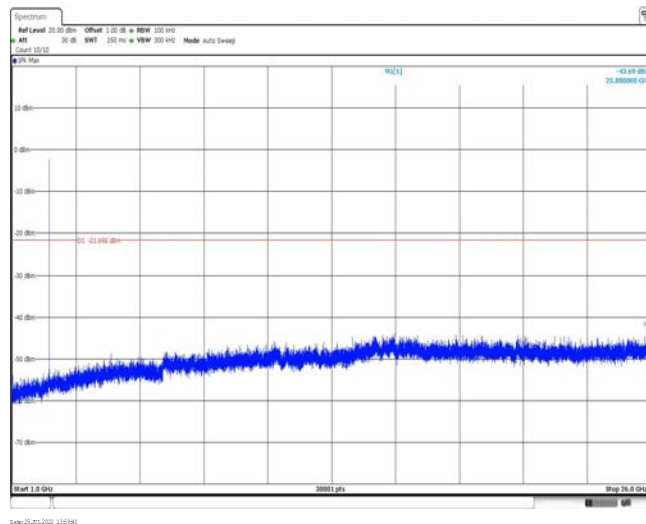
CH39
Reference level

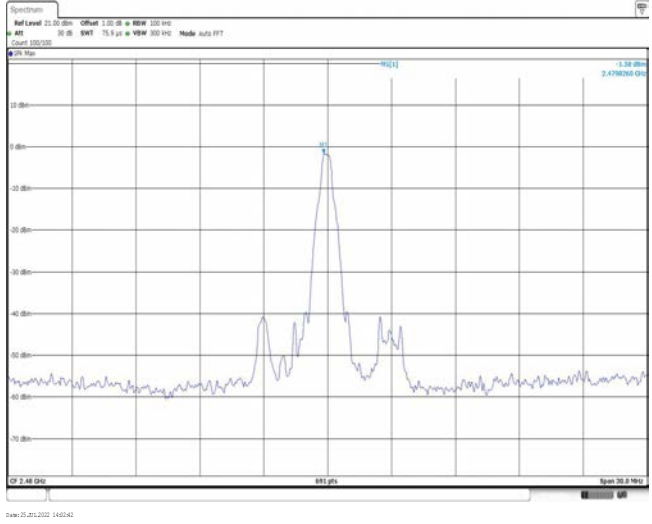
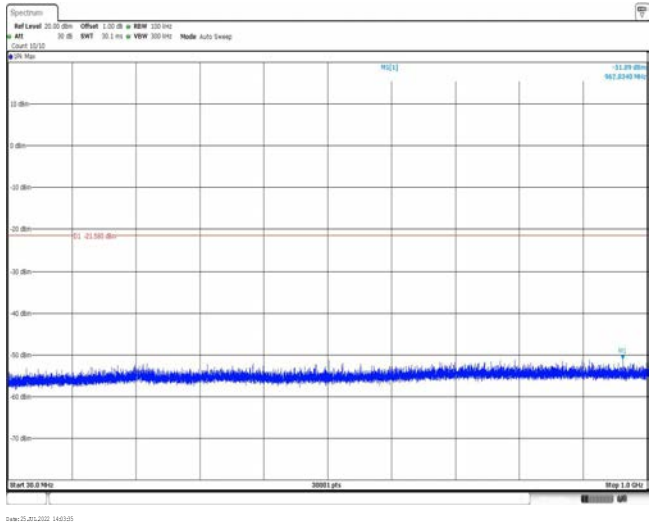
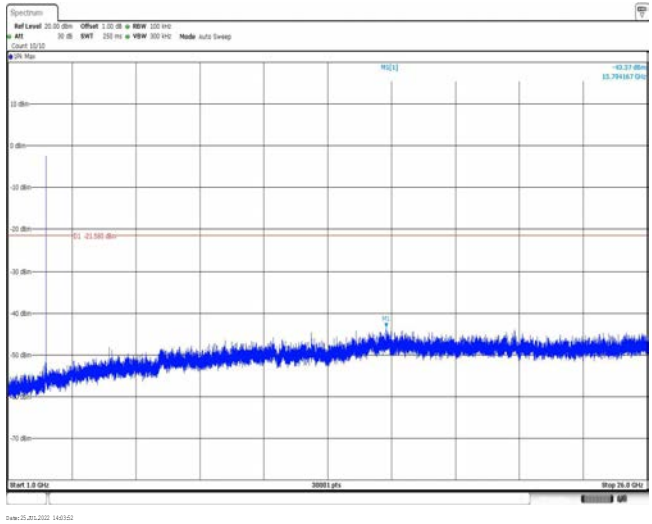


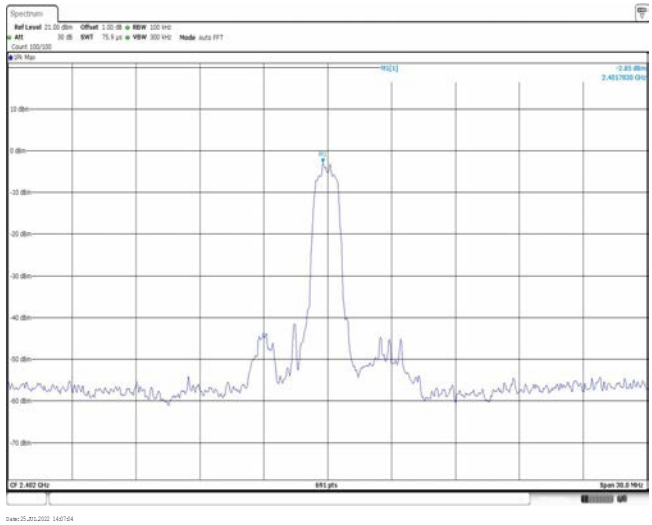
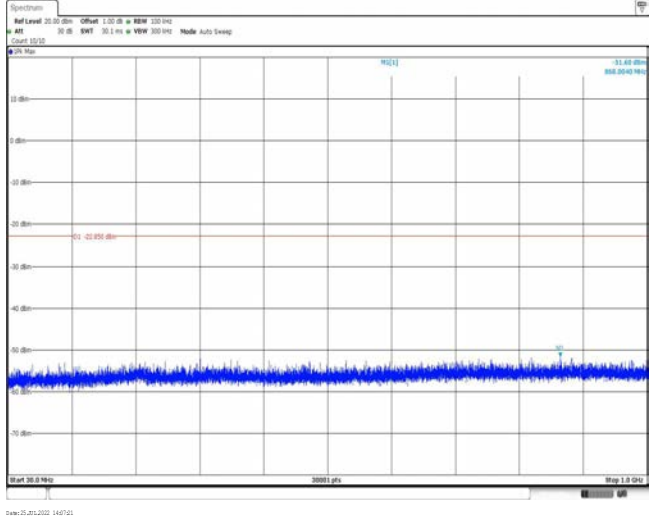
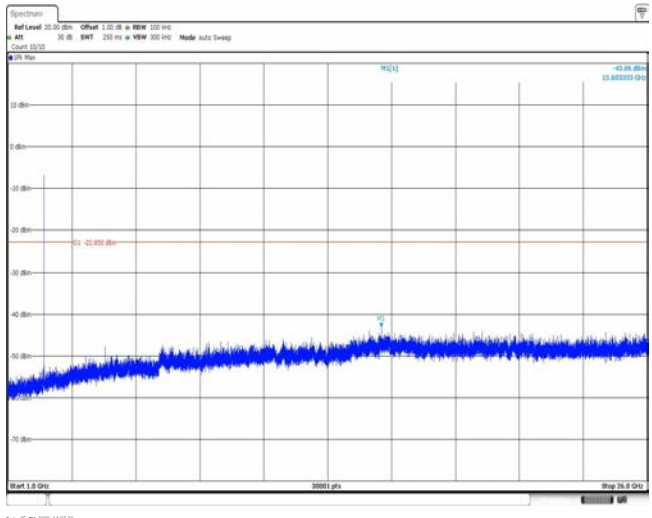
CH39
30MHz~1000MHz



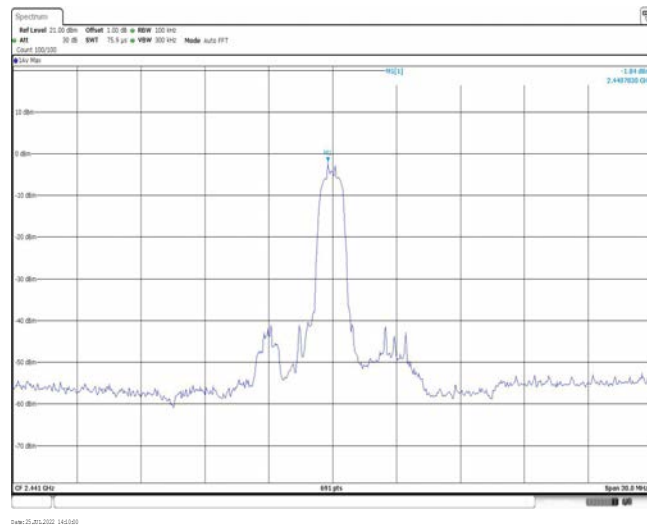
CH39
1GHz~26GHz



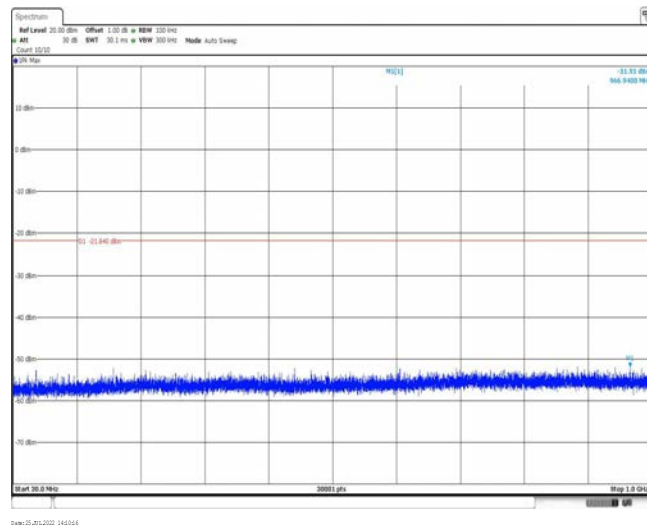
CH78 Reference level	 The spectrum plot shows a reference signal for CH78. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in GHz, ranging from 0.4 to 2.6. A prominent peak is visible at approximately 2.479 GHz, reaching a power level of about 10 dBm. The plot includes a grid and various measurement parameters at the top, such as 'Ref Level: 21.00 dBm', 'Offset: 1.00 GHz', and 'BW: 100 kHz'.
CH78 30MHz~1000MHz	 The spectrum plot shows the power spectrum for CH78 in the 30 MHz to 1000 MHz range. The y-axis ranges from -70 to 20 dBm, and the x-axis ranges from 0.3 to 1.0 GHz. The plot shows a relatively flat noise floor around -60 dBm, with a small peak at approximately 0.3 GHz reaching about -20 dBm. The plot includes a grid and various measurement parameters at the top, such as 'Ref Level: 21.00 dBm', 'Offset: 1.00 GHz', and 'BW: 100 kHz'.
CH78 1GHz~26GHz	 The spectrum plot shows the power spectrum for CH78 in the 1 GHz to 26 GHz range. The y-axis ranges from -70 to 20 dBm, and the x-axis ranges from 1.0 to 2.6 GHz. The plot shows a relatively flat noise floor around -60 dBm, with a small peak at approximately 1.0 GHz reaching about -20 dBm. The plot includes a grid and various measurement parameters at the top, such as 'Ref Level: 21.00 dBm', 'Offset: 1.00 GHz', and 'BW: 100 kHz'.

Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

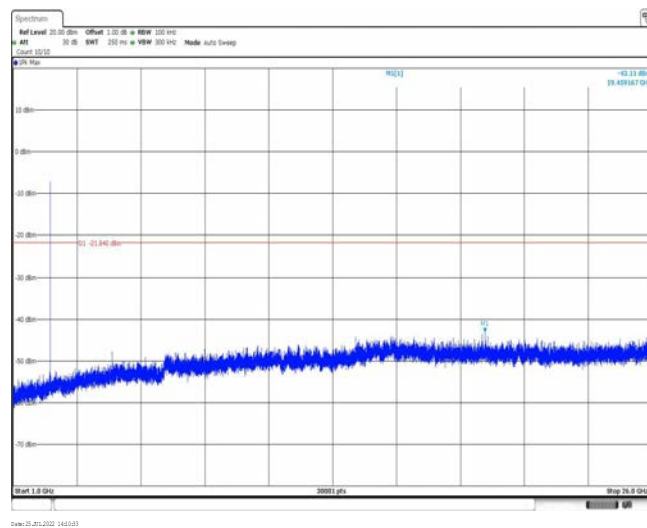
CH39
Reference level



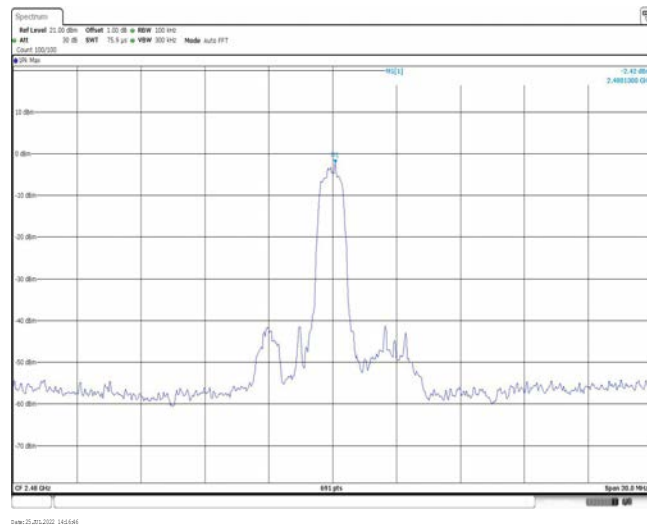
CH39
30MHz~1000MHz



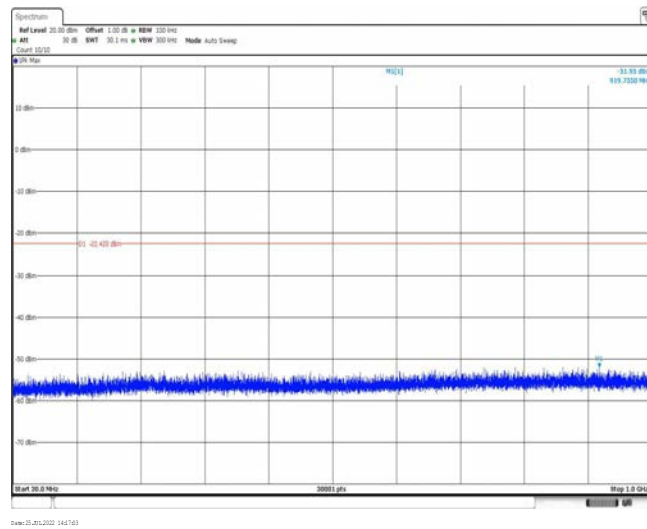
CH39
1GHz~26GHz



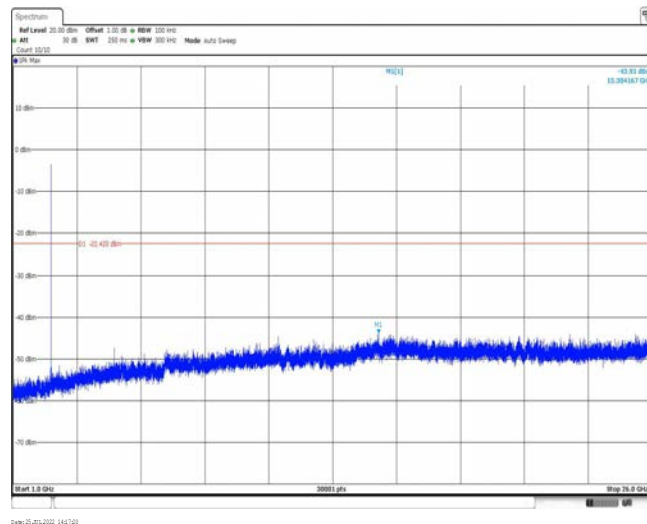
CH78
Reference level

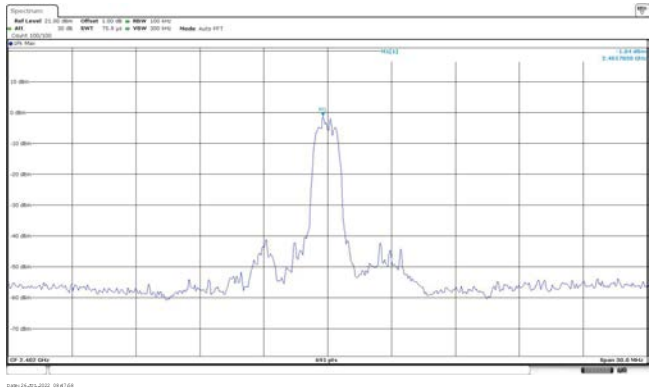
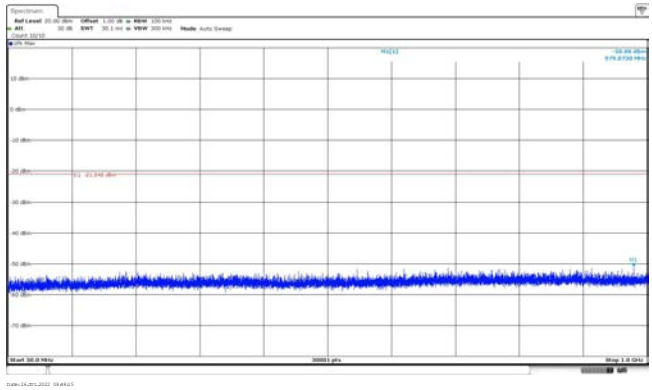
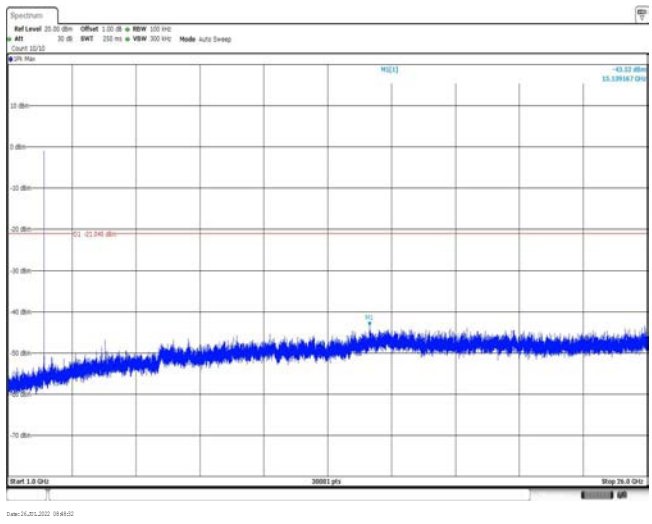


CH78
30MHz~1000MHz

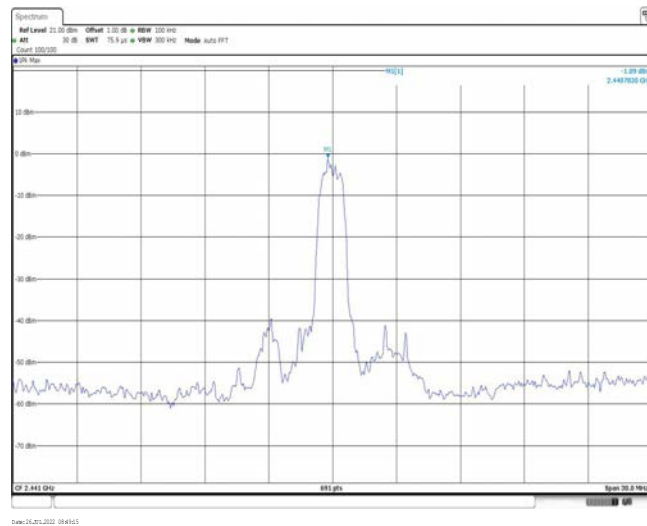


CH78
1GHz~26GHz

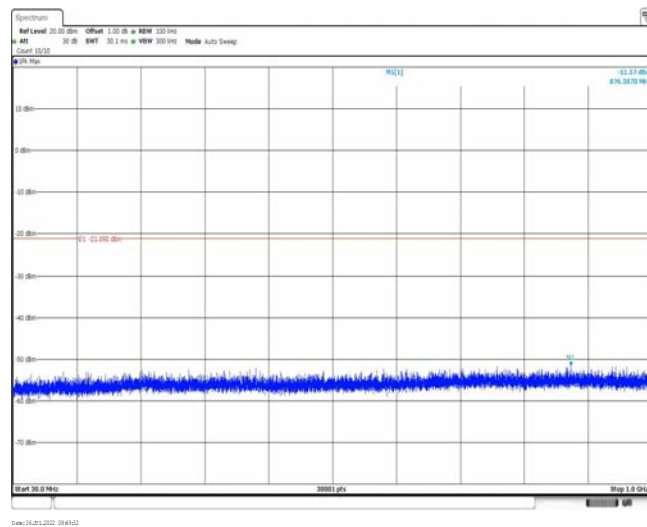


Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

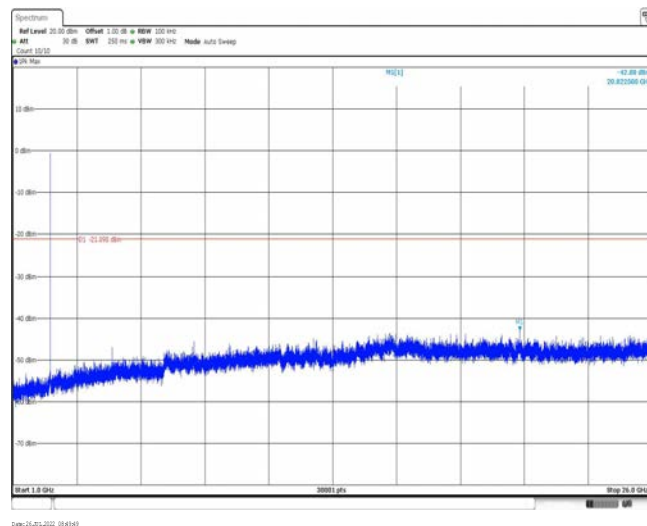
CH39
Reference level

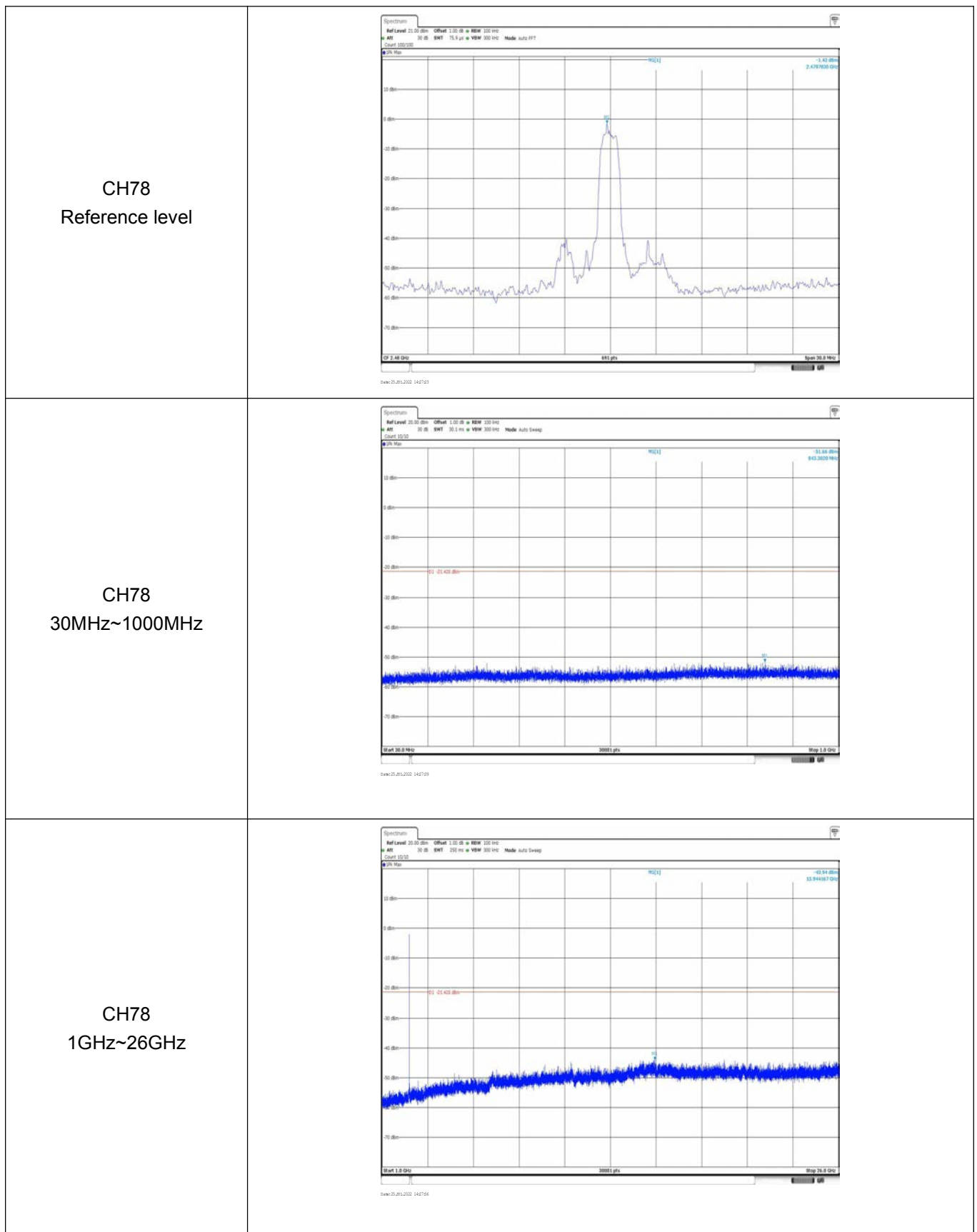


CH39
30MHz~1000MHz



CH39
1GHz~26GHz





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