

APPENDIX REPORT

Project No.	SHT2008055601EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20080556001	Model No.	HTLB14INC4Z1SBK
Start test date	2020/8/26	Finish date	2020/8/26
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	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	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	2.66	2.63	≤ 30.00	Pass
	39	3.72	3.70		
	78	3.62	3.60		
$\pi/4$ DQPSK	00	5.46	4.90	≤ 21.00	Pass
	39	5.49	4.93		
	78	5.37	4.81		
8DPSK	00	5.80	5.14	≤ 21.00	Pass
	39	5.83	5.18		
	78	5.65	5.03		

Modulation Type: GFSK	
CH00	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300 1 Frequency Sweep M1[1] 2.66 dBm 2.40184520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:14:20
CH39	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300 1 Frequency Sweep M1[1] 3.72 dBm 2.44111990 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:17:10
CH78	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300 1 Frequency Sweep M1[1] 3.62 dBm 2.47978520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:19:40

Modulation Type: $\pi/4$ DQPSK	
CH00	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.46 dBm 2.40184520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:23:26
CH39	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.49 dBm 2.44084020 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:28:16
CH78	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.37 dBm 2.47983520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:31:33

Modulation Type: 8DPSK	
CH00	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.83 dBm 2.40194010 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:35:07
CH39	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.83 dBm 2.44086510 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:40:24
CH78	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 5.65 dBm 2.47988010 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 26/AUG/2020 14:42:45

Appendix B : 20 dB Bandwidth

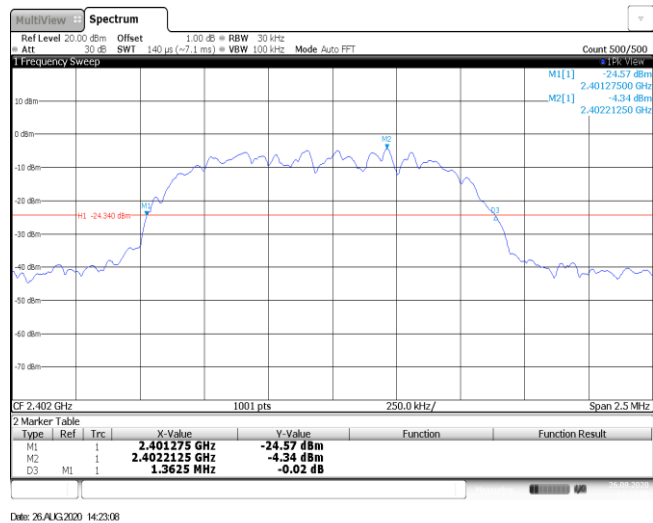
Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	696.80	-	Pass
	39	786.70		
	78	784.20		
$\pi/4$ DQPSK	00	1362.50	-	Pass
	39	1365.00		
	78	1365.00		
8DPSK	00	1302.50	-	Pass
	39	1302.50		
	78	1305.00		

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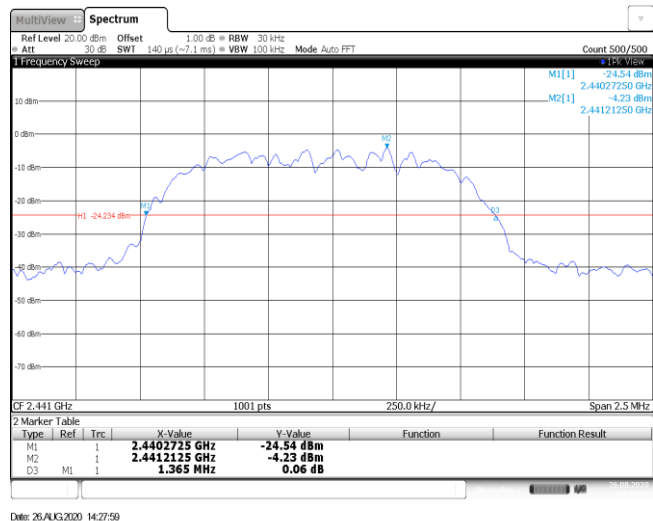
Modulation Type:

 $\pi/4$ DQPSK

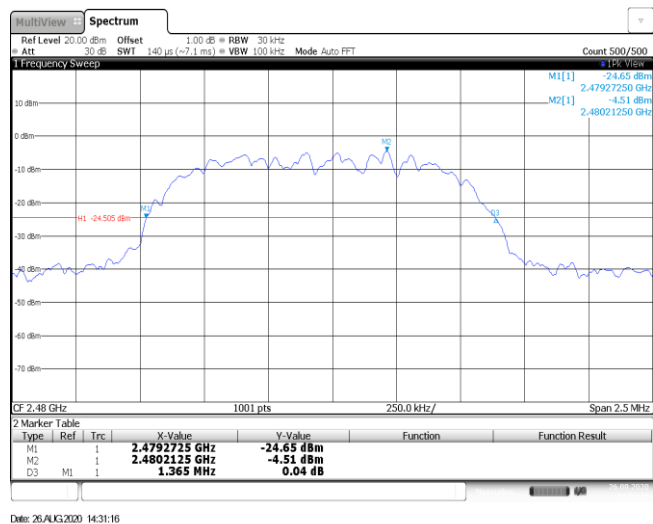
CH00

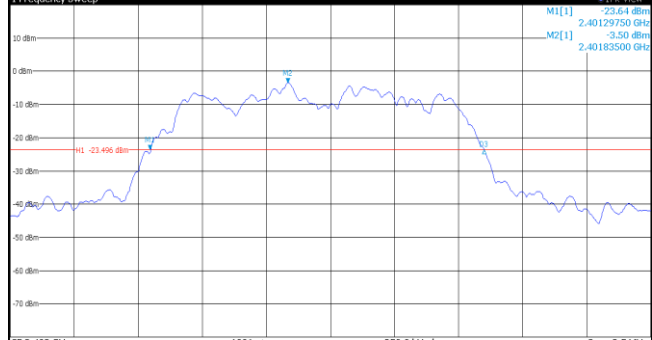
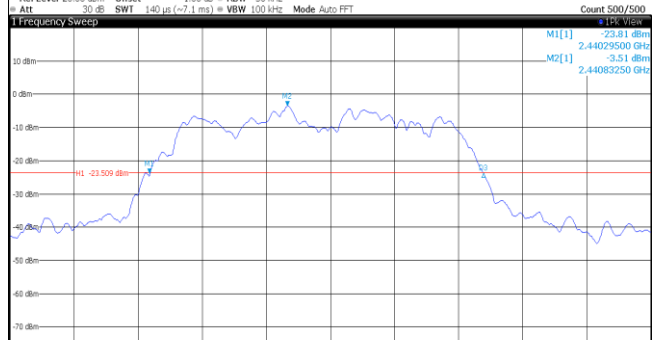
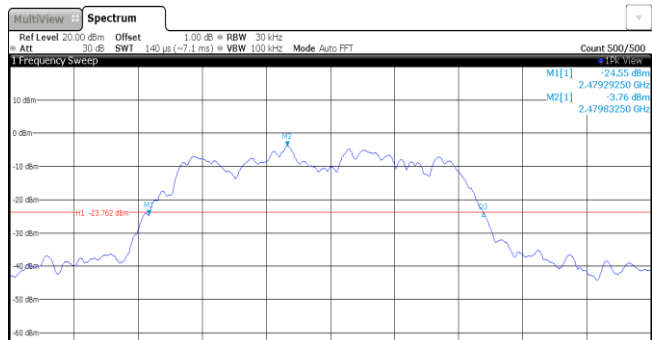


CH39



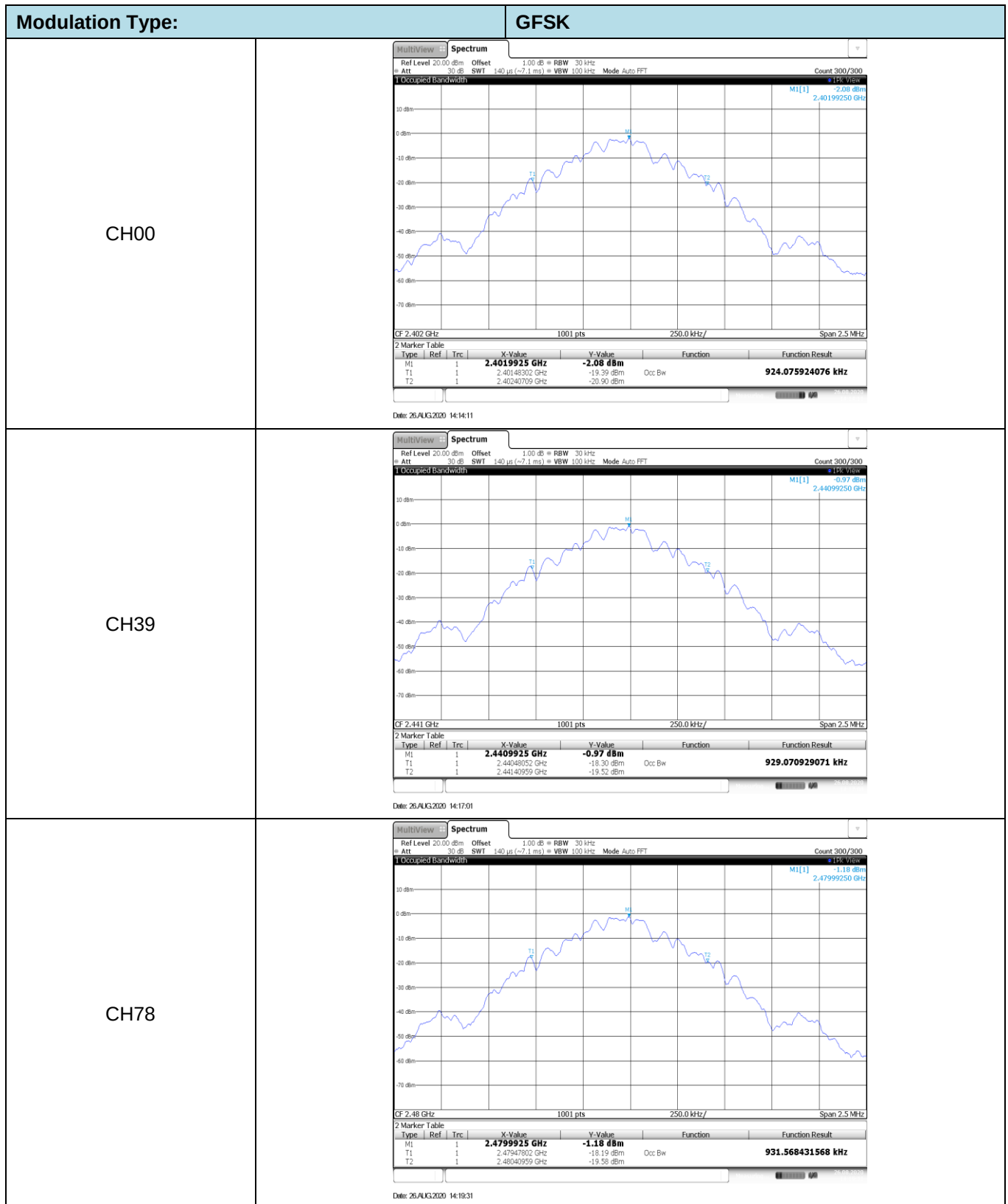
CH78

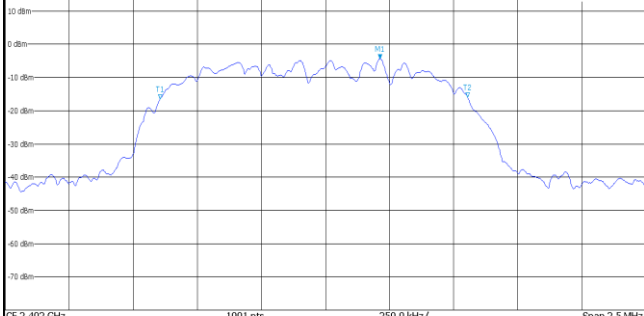
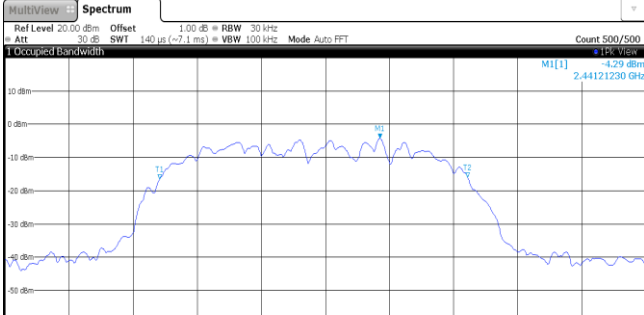


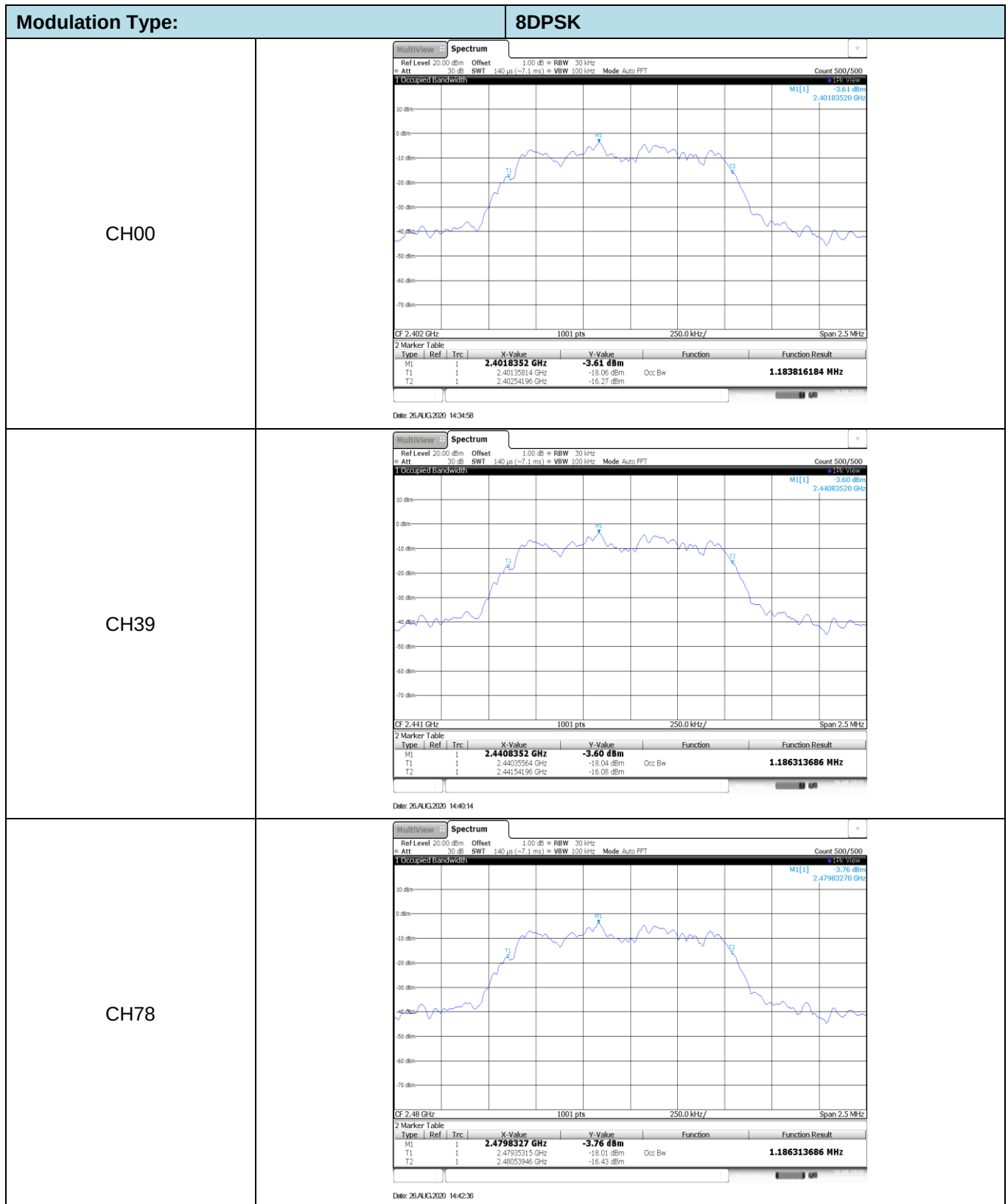
Modulation Type:		8DPSK																											
CH00	MultiView Spectrum Ref Level 20.00 dBm Offset 30 dB Att 30 dB SWT 140 μs (≈7.1 ms) RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 500/500 1PS View 1 Frequency Sweep  CF 2.402 GHz1001 pts250.0 kHz/Span 2.5 MHz 2 Marker Table <table><tr><th>Type</th><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>2.4012975 GHz</td><td>-23.64 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.401835 GHz</td><td>-3.50 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>1.3025 MHz</td><td>0.04 dB</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:34:49	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4012975 GHz	-23.64 dBm			M2	1		2.401835 GHz	-3.50 dBm			D3	M1	1	1.3025 MHz	0.04 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4012975 GHz	-23.64 dBm																									
M2	1		2.401835 GHz	-3.50 dBm																									
D3	M1	1	1.3025 MHz	0.04 dB																									
CH39	MultiView Spectrum Ref Level 20.00 dBm Offset 30 dB Att 30 dB SWT 140 μs (≈7.1 ms) RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 500/500 1PS View 1 Frequency Sweep  CF 2.441 GHz1001 pts250.0 kHz/Span 2.5 MHz 2 Marker Table <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>2.440295 GHz</td><td>-23.81 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4408325 GHz</td><td>-3.51 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>1.3025 MHz</td><td>0.09 dB</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:40:06	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.440295 GHz	-23.81 dBm			M2	1		2.4408325 GHz	-3.51 dBm			D3	M1	1	1.3025 MHz	0.09 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.440295 GHz	-23.81 dBm																									
M2	1		2.4408325 GHz	-3.51 dBm																									
D3	M1	1	1.3025 MHz	0.09 dB																									
CH78	MultiView Spectrum Ref Level 20.00 dBm Offset 30 dB Att 30 dB SWT 140 μs (≈7.1 ms) RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 500/500 1PS View 1 Frequency Sweep  CF 2.48 GHz1001 pts250.0 kHz/Span 2.5 MHz 2 Marker Table <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>2.4792925 GHz</td><td>-24.55 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4798325 GHz</td><td>-3.76 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>1.305 MHz</td><td>0.74 dB</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:42:27	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4792925 GHz	-24.55 dBm			M2	1		2.4798325 GHz	-3.76 dBm			D3	M1	1	1.305 MHz	0.74 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.4792925 GHz	-24.55 dBm																									
M2	1		2.4798325 GHz	-3.76 dBm																									
D3	M1	1	1.305 MHz	0.74 dB																									

Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.92	-	Pass
	39	0.93		
	78	0.93		
$\pi/4$ DQPSK	00	1.20	-	Pass
	39	1.20		
	78	1.20		
8DPSK	00	1.18	-	Pass
	39	1.19		
	78	1.19		



Modulation Type:		$\pi/4$ DQPSK																												
CH00	MultiView Spectrum Ref Level 20.00 dBm Offset 30 dB SWI 140 μs (~7.1 ms) RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth M1[1] -4.41 dBm 2.4021230 GHz  CF 2.402 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz <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>2.402123 GHz</td><td>-4.41 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.40133564 GHz</td><td>-10.43 dBm</td><td>Occ BW</td><td>1.198801199 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.40253445 GHz</td><td>-15.90 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:23:17		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402123 GHz	-4.41 dBm			T1	1		2.40133564 GHz	-10.43 dBm	Occ BW	1.198801199 MHz	T2	1		2.40253445 GHz	-15.90 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		2.402123 GHz	-4.41 dBm																										
T1	1		2.40133564 GHz	-10.43 dBm	Occ BW	1.198801199 MHz																								
T2	1		2.40253445 GHz	-15.90 dBm																										
CH39	MultiView Spectrum Ref Level 20.00 dBm Offset 30 dB SWI 140 μs (~7.1 ms) RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth M1[1] -4.29 dBm 2.44121230 GHz  CF 2.441 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz <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>2.4412123 GHz</td><td>-4.29 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.44033315 GHz</td><td>-10.52 dBm</td><td>Occ BW</td><td>1.201298701 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.44153445 GHz</td><td>-15.85 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:28:07		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4412123 GHz	-4.29 dBm			T1	1		2.44033315 GHz	-10.52 dBm	Occ BW	1.201298701 MHz	T2	1		2.44153445 GHz	-15.85 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		2.4412123 GHz	-4.29 dBm																										
T1	1		2.44033315 GHz	-10.52 dBm	Occ BW	1.201298701 MHz																								
T2	1		2.44153445 GHz	-15.85 dBm																										
CH78	MultiView Spectrum Ref Level 20.00 dBm Offset 30 dB SWI 140 μs (~7.1 ms) RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth M1[1] -4.52 dBm 2.48021230 GHz  CF 2.48 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz <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>2.4802123 GHz</td><td>-4.52 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.47933315 GHz</td><td>-10.66 dBm</td><td>Occ BW</td><td>1.201298701 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.48053445 GHz</td><td>-16.35 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:31:24		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4802123 GHz	-4.52 dBm			T1	1		2.47933315 GHz	-10.66 dBm	Occ BW	1.201298701 MHz	T2	1		2.48053445 GHz	-16.35 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		2.4802123 GHz	-4.52 dBm																										
T1	1		2.47933315 GHz	-10.66 dBm	Occ BW	1.201298701 MHz																								
T2	1		2.48053445 GHz	-16.35 dBm																										



Appendix D: Carrier Frequencies Separation

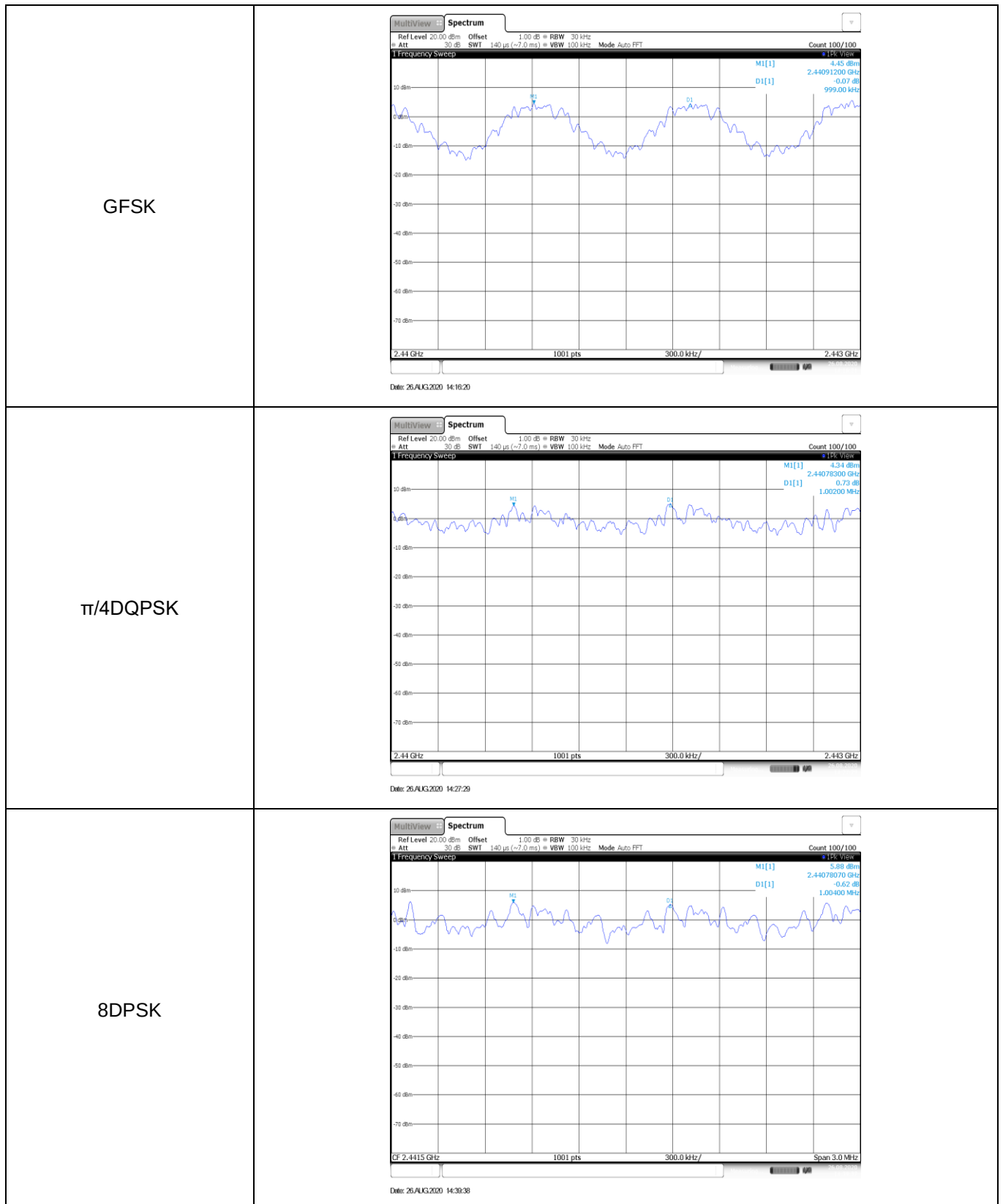
Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥786.70	Pass
π/4DQPSK	39	1.00	≥910.00	Pass
8DPSK	39	1.00	≥870.00	Pass

Note:

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

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

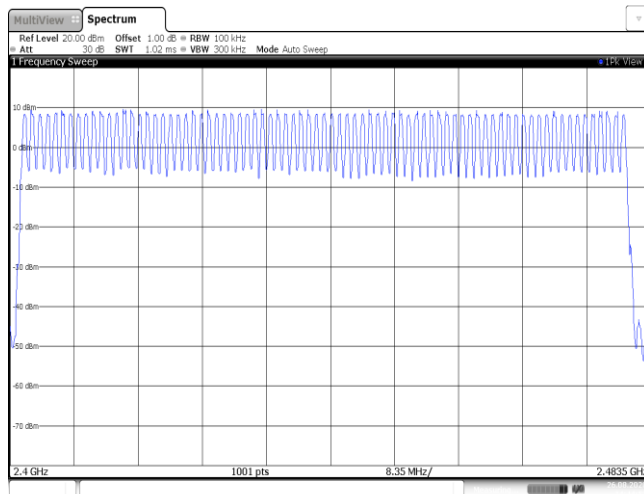
8DPSK limit = 2/3 * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B



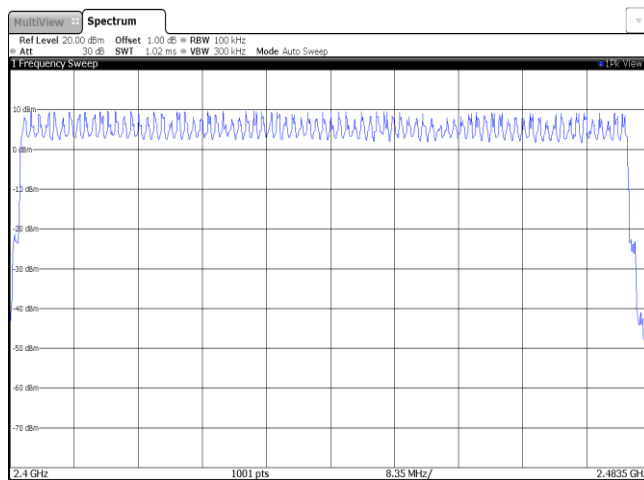
Appendix E: Hopping Channel Number

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

GFSK

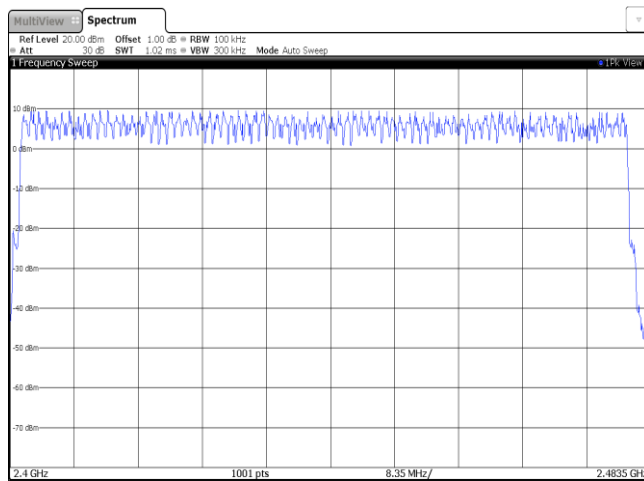


Date: 26/AUG/2020 14:44:52

 $\pi/4$ DQPSK

Date: 26/AUG/2020 14:48:30

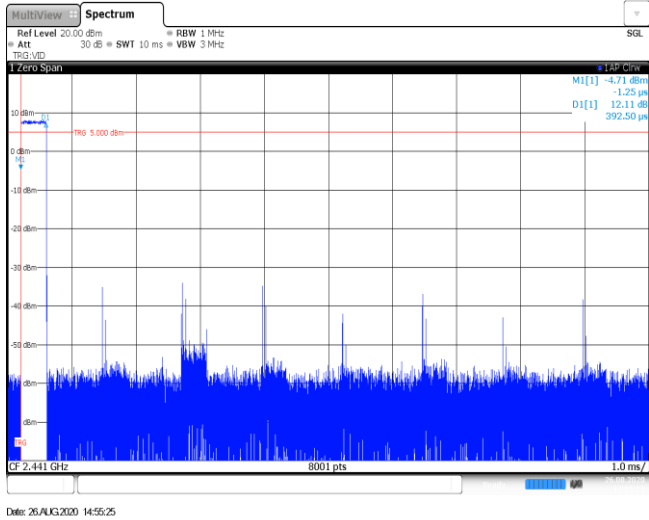
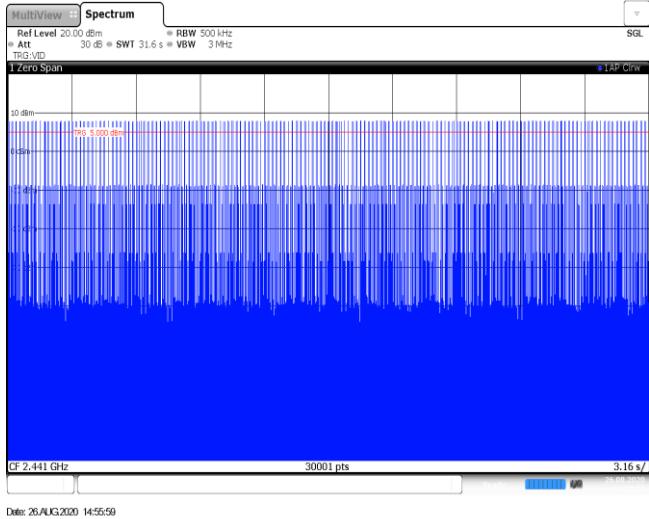
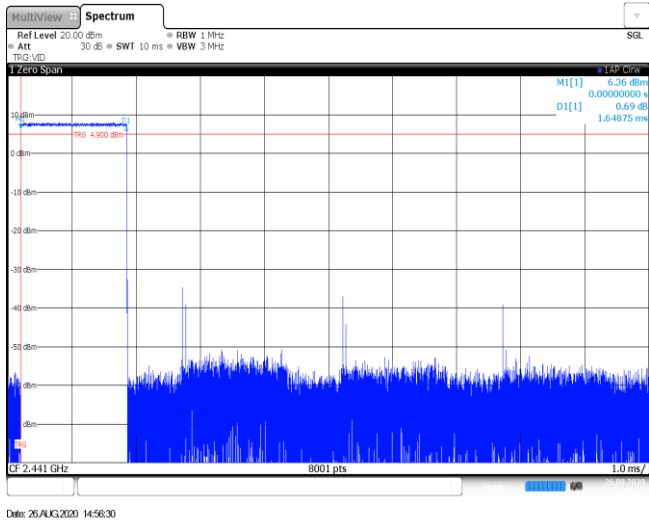
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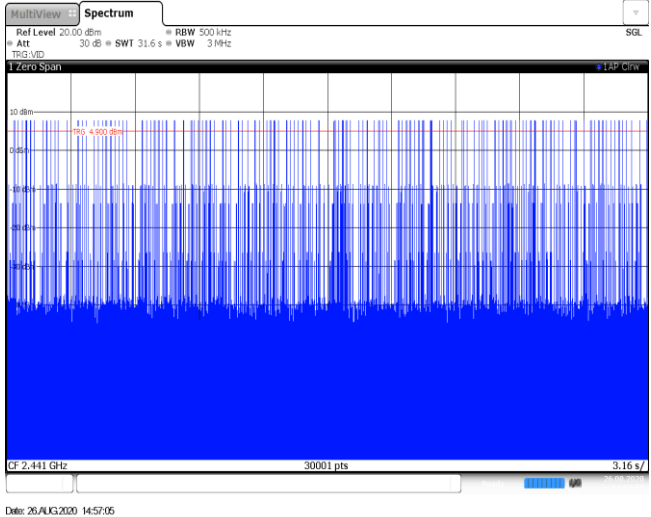
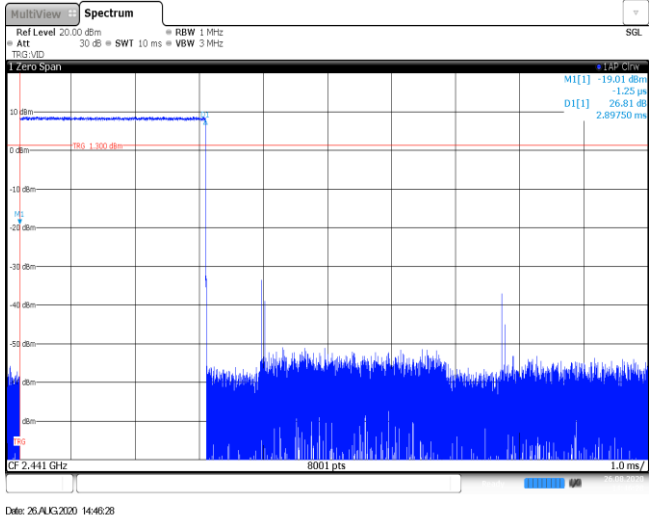
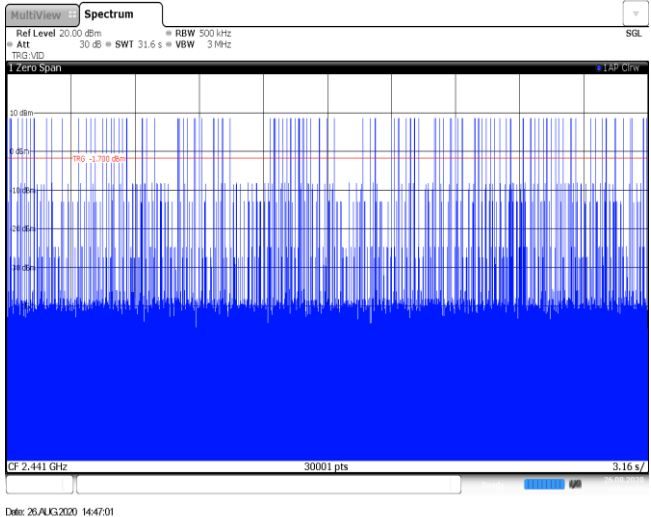


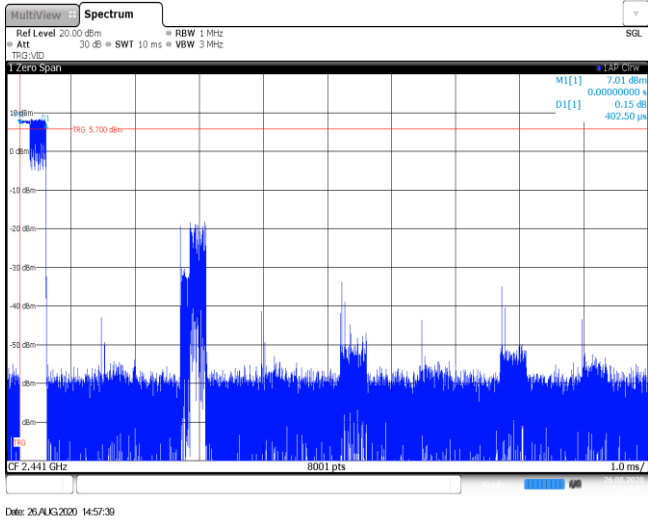
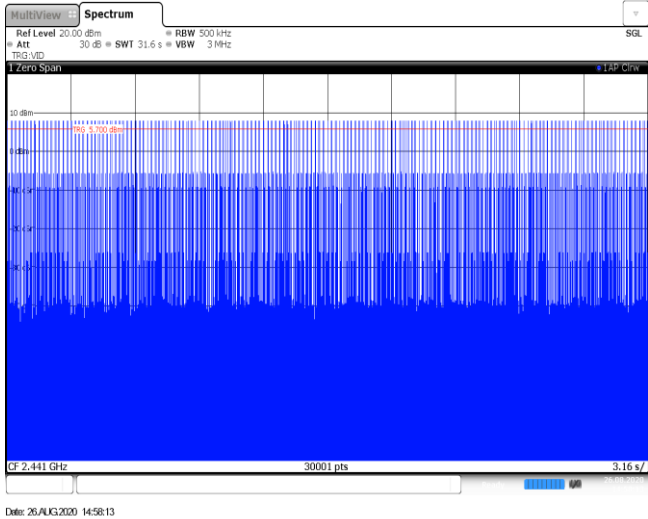
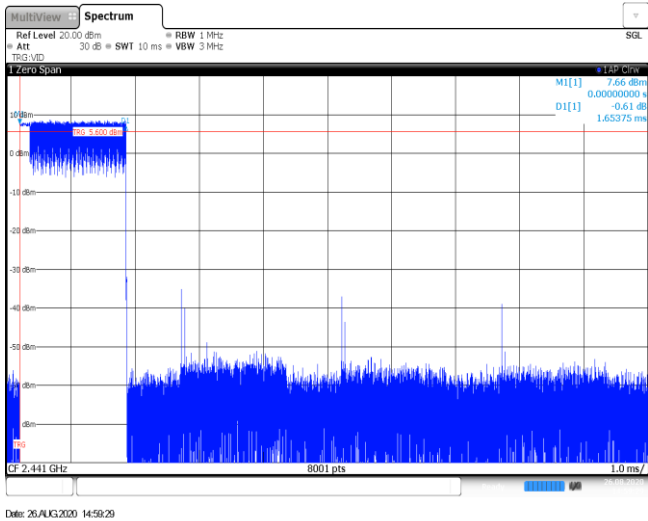
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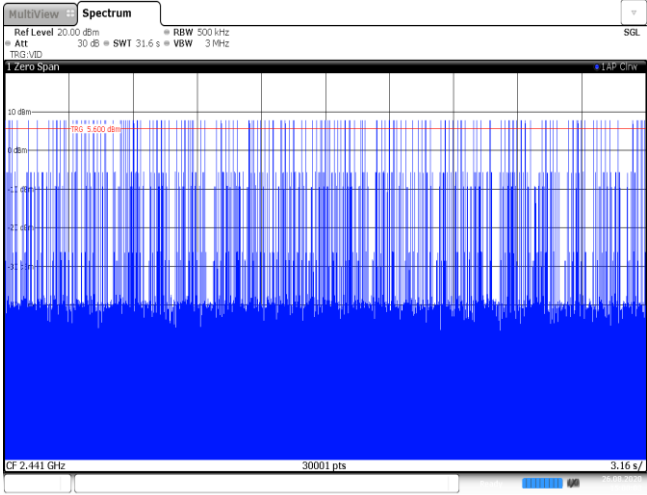
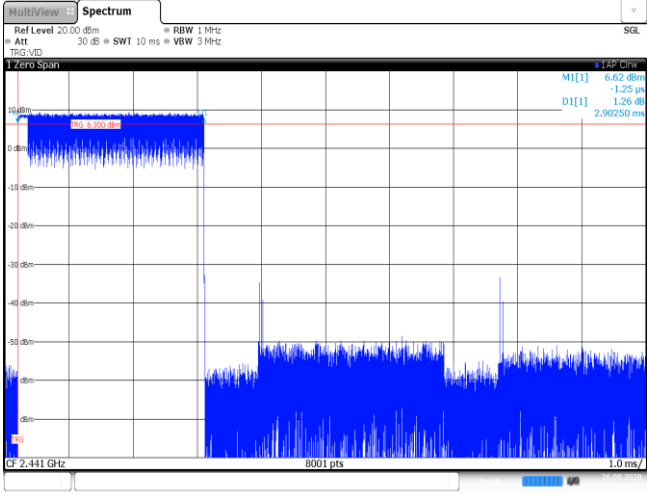
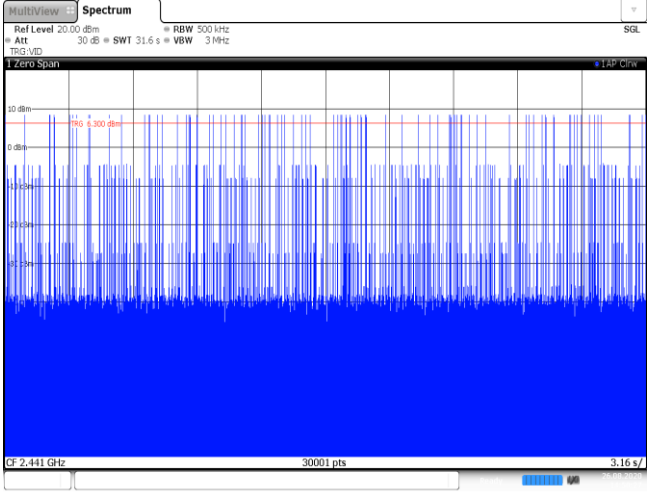
Appendix F: Dwell Time

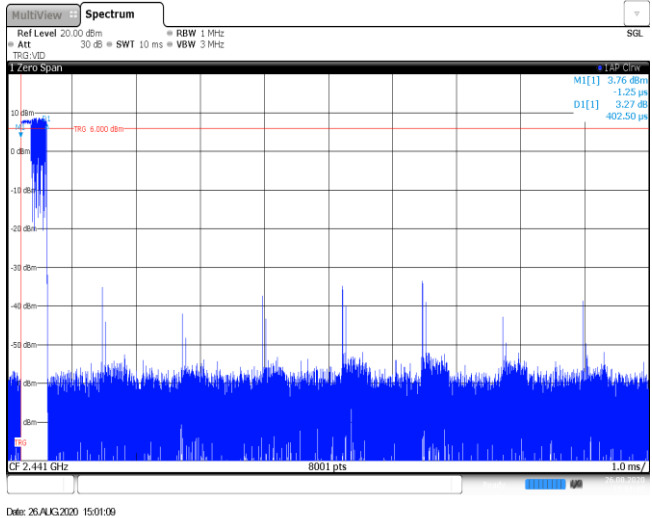
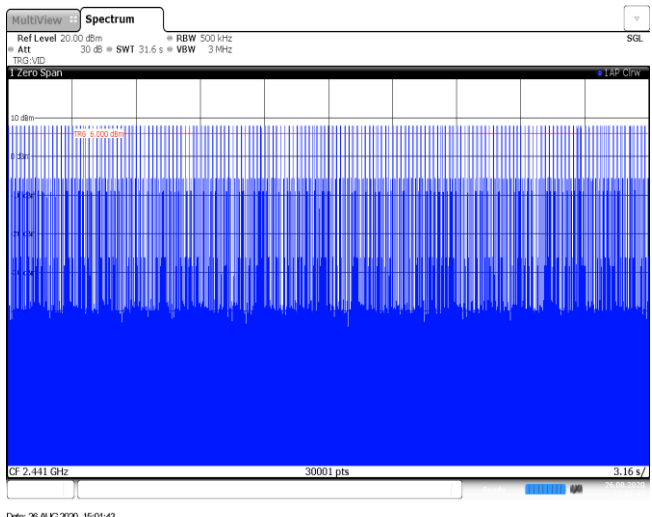
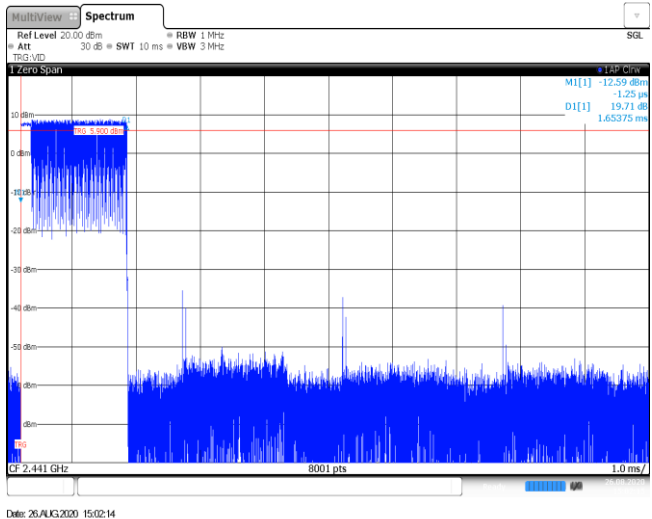
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.39	318	0.13	≤ 0.40	Pass
	DH3	1.65	170	0.28		
	DH5	2.90	118	0.34		
$\pi/4$ DQPSK	2DH1	0.40	321	0.13	≤ 0.40	Pass
	2DH3	1.65	168	0.28		
	2DH5	2.90	86	0.25		
8DPSK	3DH1	0.40	318	0.13	≤ 0.40	Pass
	3DH3	1.65	164	0.27		
	3DH5	2.90	103	0.30		

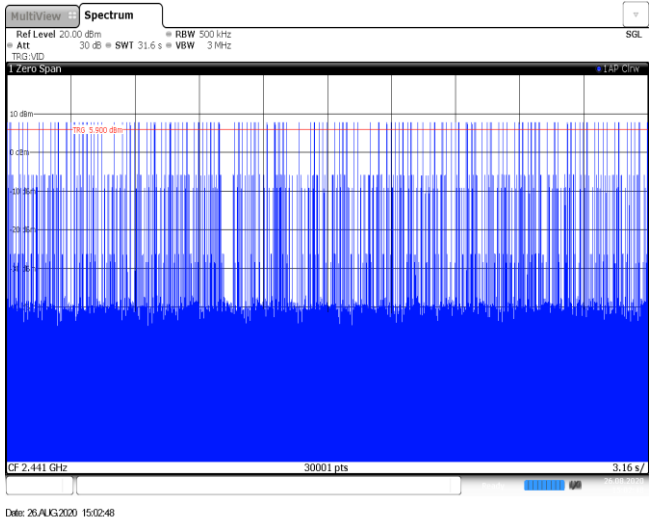
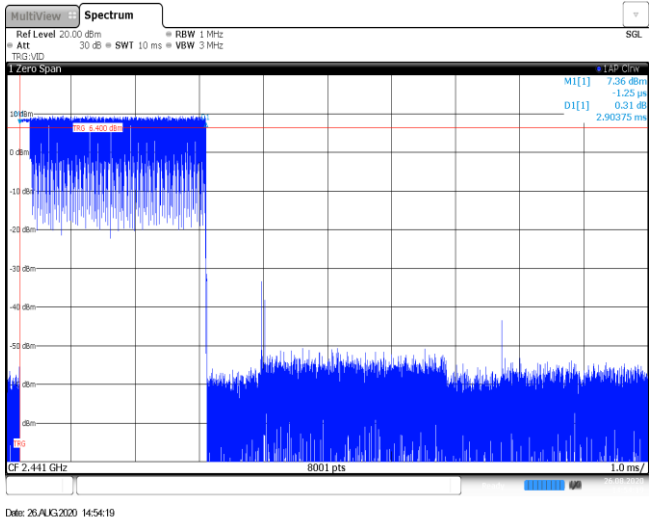
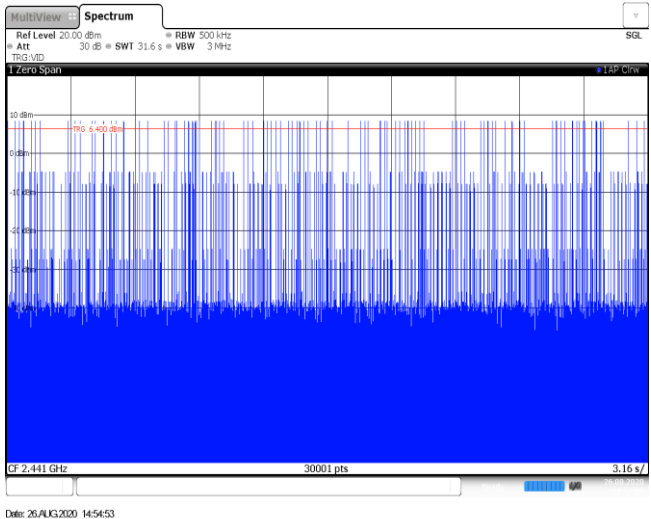
Modulation Type: GFSK	
DH1 Burst width	
DH1 Burst number	
DH3 Burst width	

DH3 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at approximately 0 dBm. The plot shows a dense, noisy signal across the entire frequency range. The status bar at the bottom indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date and time are 'Date: 26/AUG/2020 14:57:05'.
DH5 Burst width	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at approximately 0 dBm. The plot shows a dense, noisy signal across the entire frequency range. The status bar at the bottom indicates 'CF 2.441 GHz', '8001 pts', and '1.0 ms'. The date and time are 'Date: 26/AUG/2020 14:46:28'.
DH5 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at approximately 0 dBm. The plot shows a dense, noisy signal across the entire frequency range. The status bar at the bottom indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date and time are 'Date: 26/AUG/2020 14:47:01'.

Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	
2DH1 Burst number	
2DH3 Burst width	

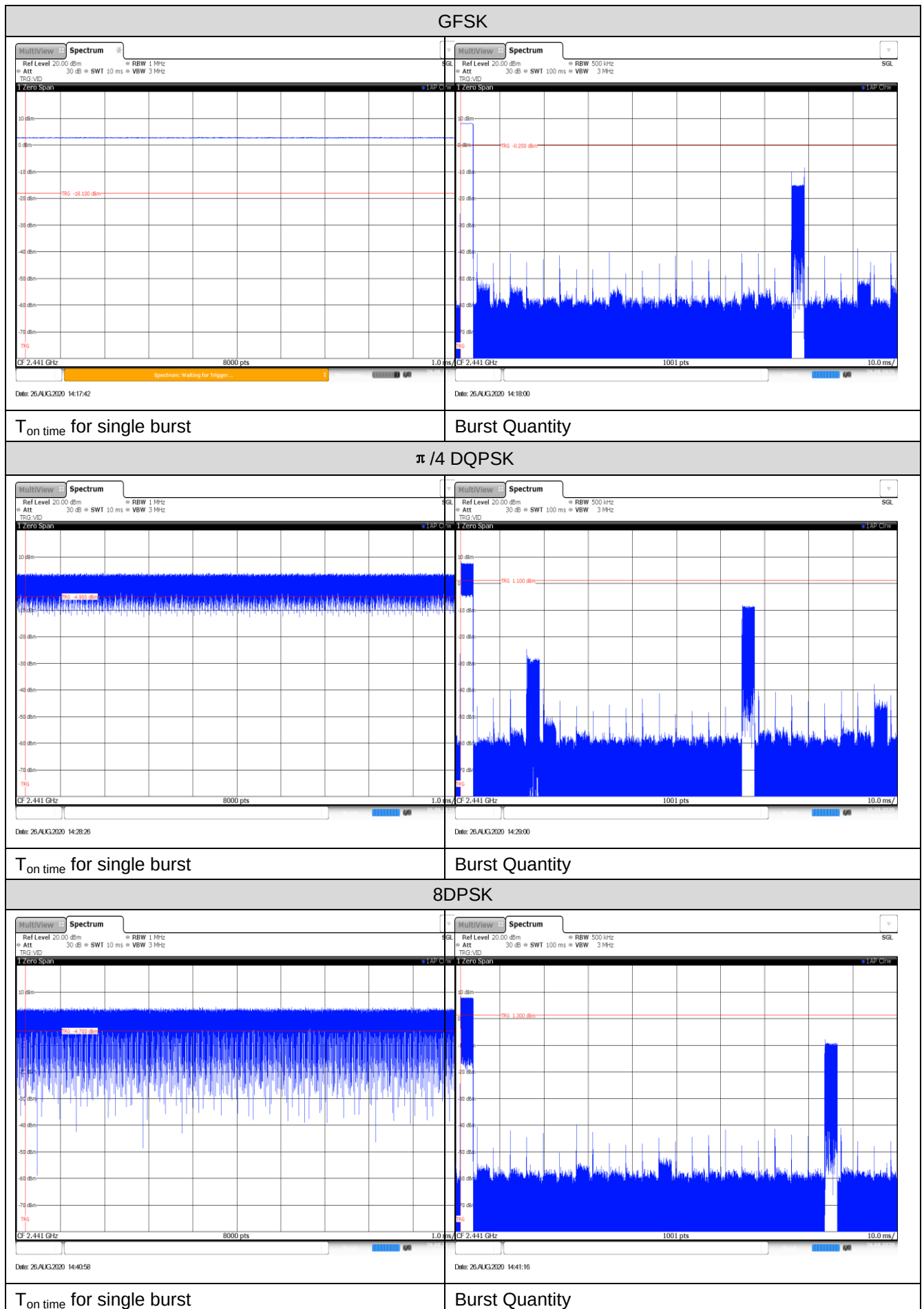
2DH3 Burst number	 Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz 1 Zero Span CF 2.441 GHz 30001 pts 3.16 s Date: 26/AUG/2020 15:00:03
2DH5 Burst width	 Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz 1 Zero Span CF 2.441 GHz 8001 pts 1.0 ms Date: 26/AUG/2020 14:49:52
2DH5 Burst number	 Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz 1 Zero Span CF 2.441 GHz 30001 pts 3.16 s Date: 26/AUG/2020 14:50:27

Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -60 to 10. A red line indicates a threshold at -5.000 dBm. The signal is characterized by a series of sharp, periodic peaks. The plot includes a 'Zero Span' view and a 'Spectrum' view. The date and time are 26/AUG/2020 15:01:09.
3DH1 Burst number	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 30001 pts. The y-axis represents power in dBm, ranging from -60 to 10. A red line indicates a threshold at -5.000 dBm. The signal is characterized by a dense, continuous series of sharp peaks. The plot includes a 'Zero Span' view and a 'Spectrum' view. The date and time are 26/AUG/2020 15:01:43.
3DH3 Burst width	 The spectrum plot shows a signal at 2.441 GHz with a bandwidth of 8001 pts. The y-axis represents power in dBm, ranging from -60 to 10. A red line indicates a threshold at -5.000 dBm. The signal is characterized by a series of sharp, periodic peaks. The plot includes a 'Zero Span' view and a 'Spectrum' view. The date and time are 26/AUG/2020 15:02:14.

3DH3 Burst number	 The spectrum plot shows a dense, continuous signal across the frequency range from 2.441 GHz to 3.16 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, VSW 3 MHz, and SWT 31.6 s. The date is 26/AUG/2020 15:02:48.
3DH5 Burst width	 The spectrum plot shows a signal burst that starts at approximately 2.441 GHz and ends at approximately 2.90375 MHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, VSW 3 MHz, and SWT 10 ms. The date is 26/AUG/2020 14:54:19.
3DH5 Burst number	 The spectrum plot shows a dense, continuous signal across the frequency range from 2.441 GHz to 3.16 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 kHz, VSW 3 MHz, and SWT 31.6 s. The date is 26/AUG/2020 14:54:53.

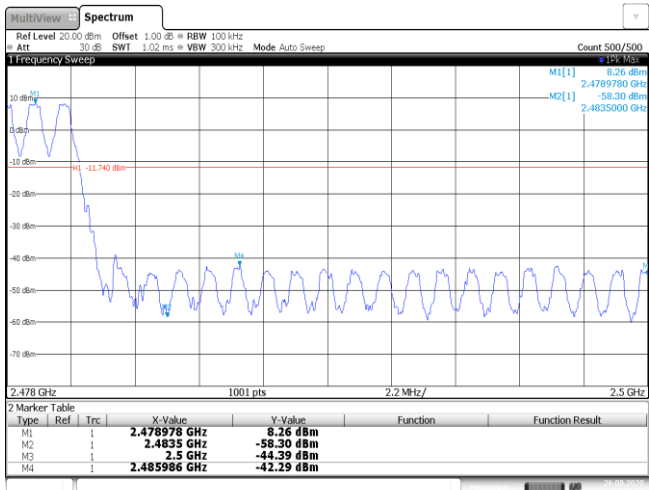
Appendix G: Duty Cycle Correction Factor (DCCF)

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	1.00	100	2.00	-33.98
$\pi/4$ DQPSK	2441	1.00	100	2.00	-33.98
8DPSK	2441	1.00	100	2.00	-33.98



Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	2 Marker Table <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401916 GHz</td> <td>1.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-56.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-62.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.321875 GHz</td> <td>-48.27 dBm</td> <td></td> <td></td> </tr> </tbody> </table> Date: 26.AUG.2020 14:14:39			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401916 GHz	1.62 dBm			M2	1		2.4 GHz	-56.72 dBm			M3	1		2.39 GHz	-62.28 dBm			M4	1		2.31 GHz	-63.65 dBm			M5	1		2.321875 GHz	-48.27 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M5	1		2.399015 GHz	-40.49 dBm																																									
CH78 No hopping mode	2 Marker Table <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.479901 GHz</td> <td>2.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-59.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-62.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483764 GHz</td> <td>-57.79 dBm</td> <td></td> <td></td> </tr> </tbody> </table> Date: 26.AUG.2020 14:18:54			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479901 GHz	2.57 dBm			M2	1		2.4835 GHz	-59.34 dBm			M3	1		2.5 GHz	-62.34 dBm			M4	1		2.483764 GHz	-57.79 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479901 GHz	2.57 dBm																																									
M2	1		2.4835 GHz	-59.34 dBm																																									
M3	1		2.5 GHz	-62.34 dBm																																									
M4	1		2.483764 GHz	-57.79 dBm																																									

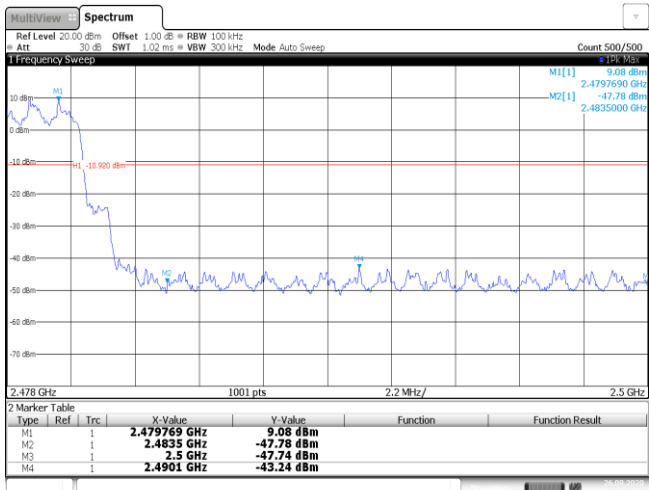
CH78
Hopping mode



Date: 26/AUG/2020 14:45:31

Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
CH00 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 0.71 dBm 2.401631 GHz M2[1] -51.19 dBm 2.400000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz <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>2.401631 GHz</td><td>0.71 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.19 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.53 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.27 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.321685 GHz</td><td>-50.30 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:26:00			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401631 GHz	0.71 dBm			M2	1		2.4 GHz	-51.19 dBm			M3	1		2.39 GHz	-62.53 dBm			M4	1		2.31 GHz	-63.27 dBm			M5	1		2.321685 GHz	-50.30 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.401631 GHz	0.71 dBm																																									
M2	1		2.4 GHz	-51.19 dBm																																									
M3	1		2.39 GHz	-62.53 dBm																																									
M4	1		2.31 GHz	-63.27 dBm																																									
M5	1		2.321685 GHz	-50.30 dBm																																									
CH00 Hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 8.64 dBm 2.404763 GHz M2[1] -43.13 dBm 2.400000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz <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>2.404763 GHz</td><td>8.64 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-43.13 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-46.58 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-57.62 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-39.49 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:49:13			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404763 GHz	8.64 dBm			M2	1		2.4 GHz	-43.13 dBm			M3	1		2.39 GHz	-46.58 dBm			M4	1		2.31 GHz	-57.62 dBm			M5	1		2.399965 GHz	-39.49 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404763 GHz	8.64 dBm																																									
M2	1		2.4 GHz	-43.13 dBm																																									
M3	1		2.39 GHz	-46.58 dBm																																									
M4	1		2.31 GHz	-57.62 dBm																																									
M5	1		2.399965 GHz	-39.49 dBm																																									
CH78 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 0.49 dBm 2.479637 GHz M2[1] -58.72 dBm 2.483500 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz <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>2.479637 GHz</td><td>0.49 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.72 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.76 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483566 GHz</td><td>-57.89 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:32:04			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479637 GHz	0.49 dBm			M2	1		2.4835 GHz	-58.72 dBm			M3	1		2.5 GHz	-63.76 dBm			M4	1		2.483566 GHz	-57.89 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479637 GHz	0.49 dBm																																									
M2	1		2.4835 GHz	-58.72 dBm																																									
M3	1		2.5 GHz	-63.76 dBm																																									
M4	1		2.483566 GHz	-57.89 dBm																																									

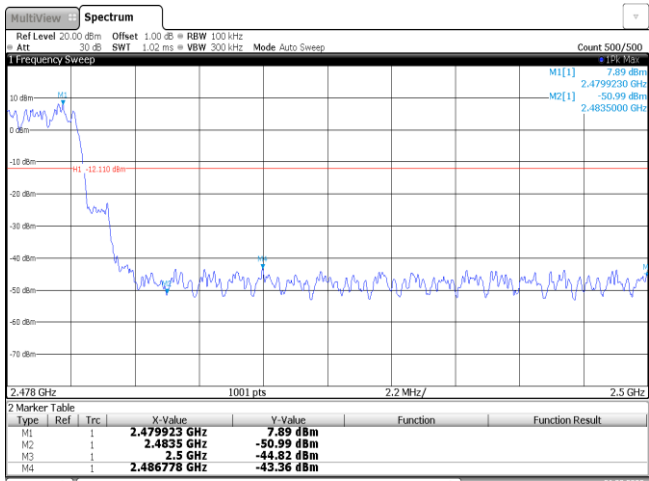
CH78
Hopping mode



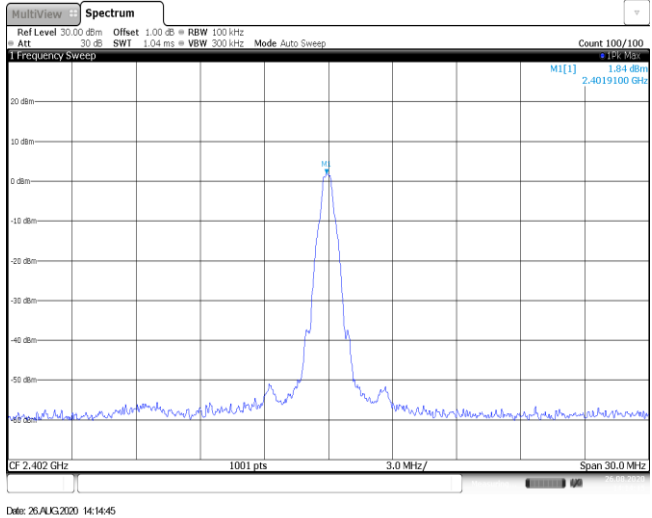
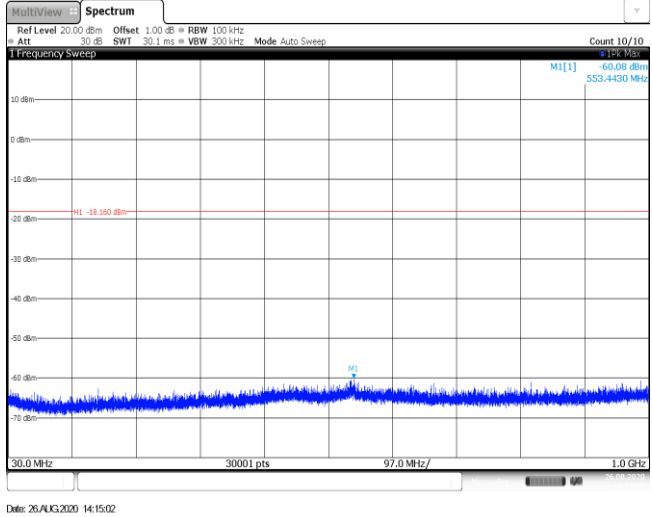
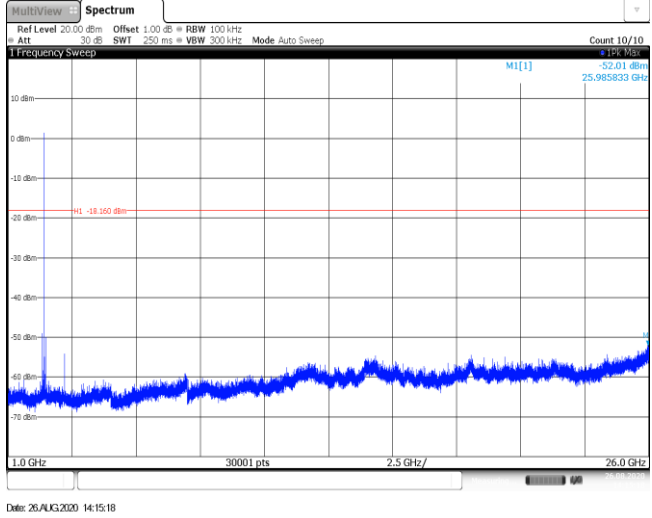
Date: 26/AUG/2020 14:49:40

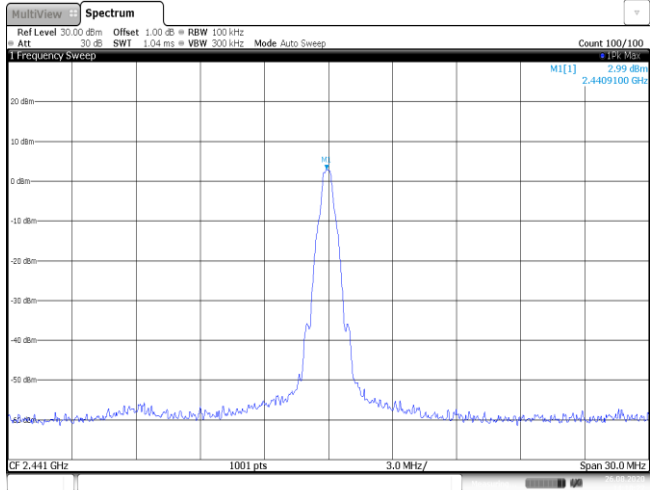
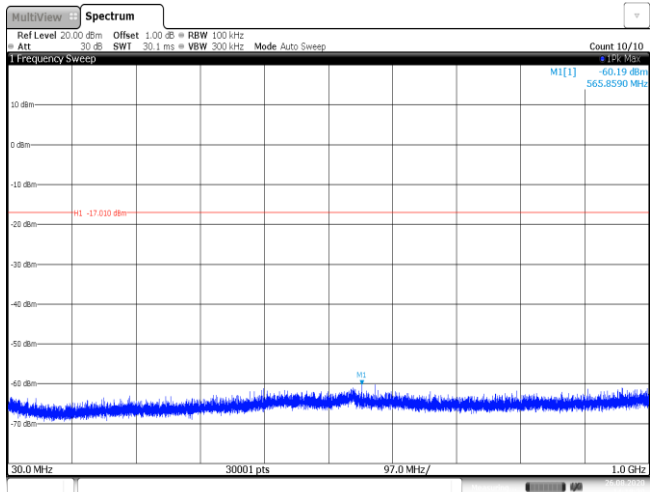
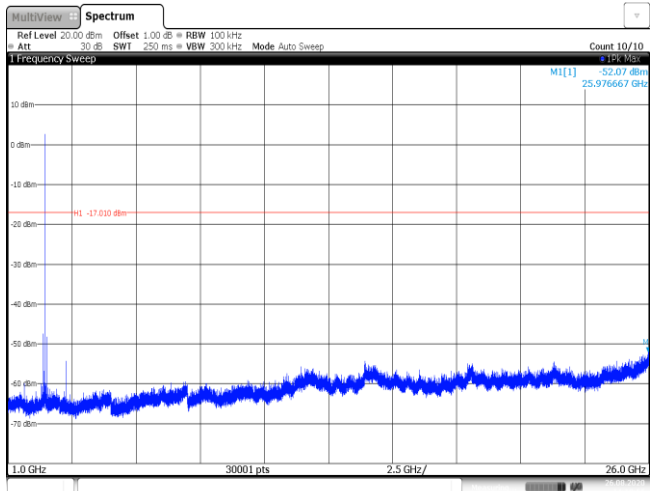
Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 0.75 dBm 2.4021050 GHz M2[1] 50.07 dBm 2.4000000 GHz M1 -19.250 dBm M3 M5 2.31 GHz1001 pts9.5 MHz/2.405 GHz <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>2.402105 GHz</td><td>0.75 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-50.07 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-61.73 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.63 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.321816 GHz</td><td>-50.60 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 15:30:37			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	0.75 dBm			M2	1		2.4 GHz	-50.07 dBm			M3	1		2.39 GHz	-61.73 dBm			M4	1		2.31 GHz	-63.63 dBm			M5	1		2.321816 GHz	-50.60 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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CH00 Hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M2[1] 43.64 dBm 2.339640 GHz M1[1] 9.35 dBm 2.4037190 GHz M1 -19.650 dBm M3 M5 CF 2.3575 GHz1001 pts9.5 MHz/Span 95.0 MHz <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>2.403719 GHz</td><td>9.35 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-38.41 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-44.86 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-56.55 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.333964 GHz</td><td>-40.64 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:53:43			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.403719 GHz	9.35 dBm			M2	1		2.4 GHz	-38.41 dBm			M3	1		2.39 GHz	-44.86 dBm			M4	1		2.31 GHz	-56.55 dBm			M5	1		2.333964 GHz	-40.64 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.403719 GHz	9.35 dBm																																									
M2	1		2.4 GHz	-38.41 dBm																																									
M3	1		2.39 GHz	-44.86 dBm																																									
M4	1		2.31 GHz	-56.55 dBm																																									
M5	1		2.333964 GHz	-40.64 dBm																																									
CH78 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] 0.41 dBm 2.4801430 GHz M2[1] -58.94 dBm 2.4835000 GHz M1 -19.500 dBm M3 M5 2.478 GHz1001 pts2.2 MHz/2.5 GHz <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>2.480143 GHz</td><td>0.41 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.94 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.62 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483566 GHz</td><td>-58.49 dBm</td><td></td><td></td></tr></table> Date: 26/AUG/2020 14:42:58			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480143 GHz	0.41 dBm			M2	1		2.4835 GHz	-58.94 dBm			M3	1		2.5 GHz	-63.62 dBm			M4	1		2.483566 GHz	-58.49 dBm									
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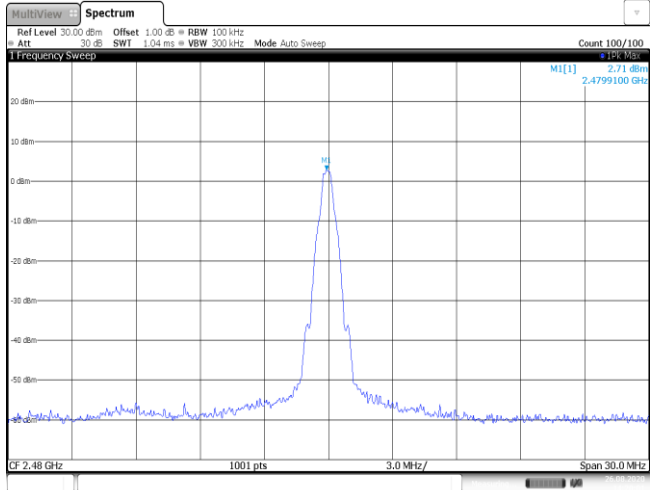
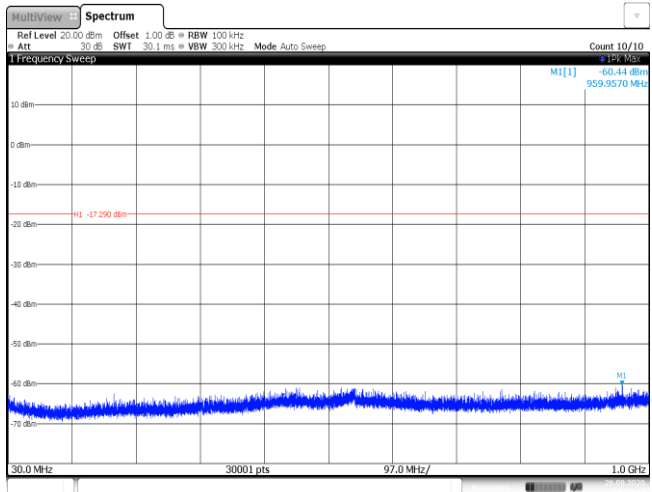
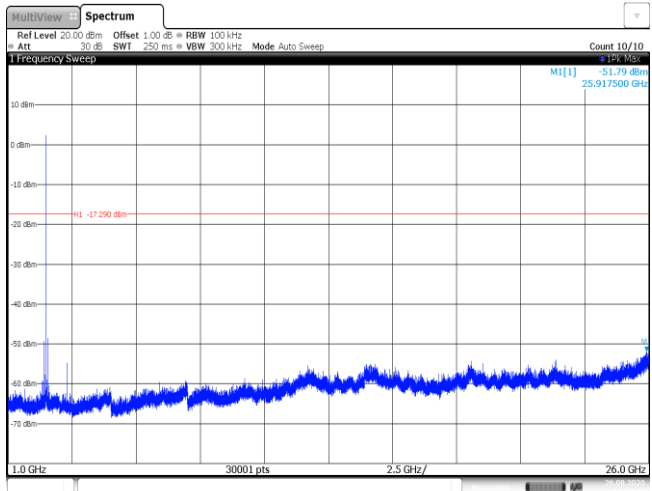
CH78
Hoppig mode

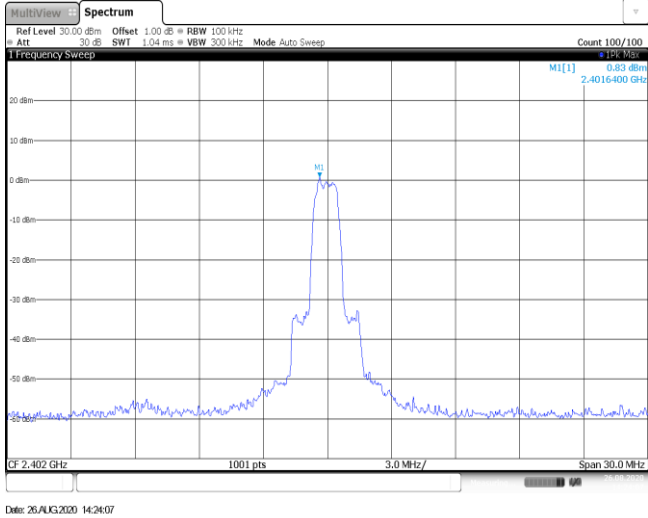
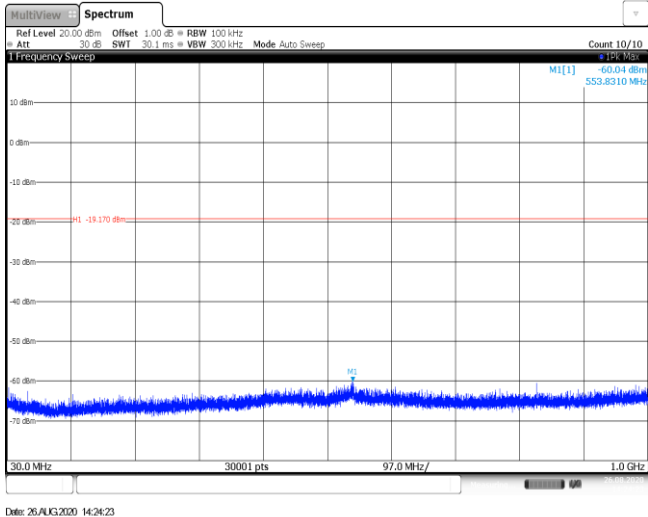
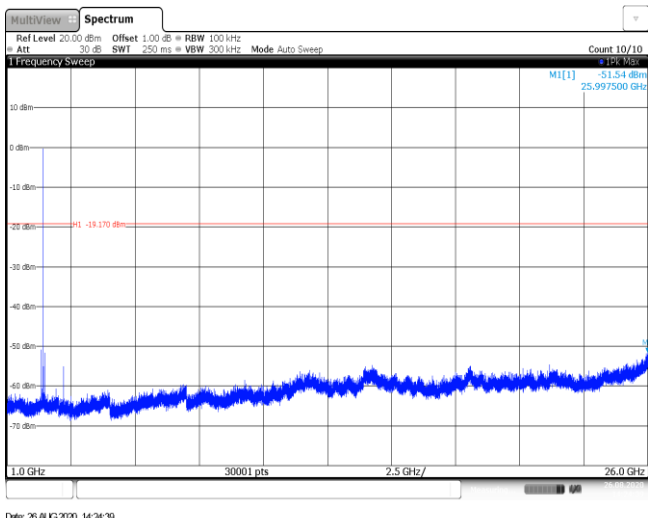


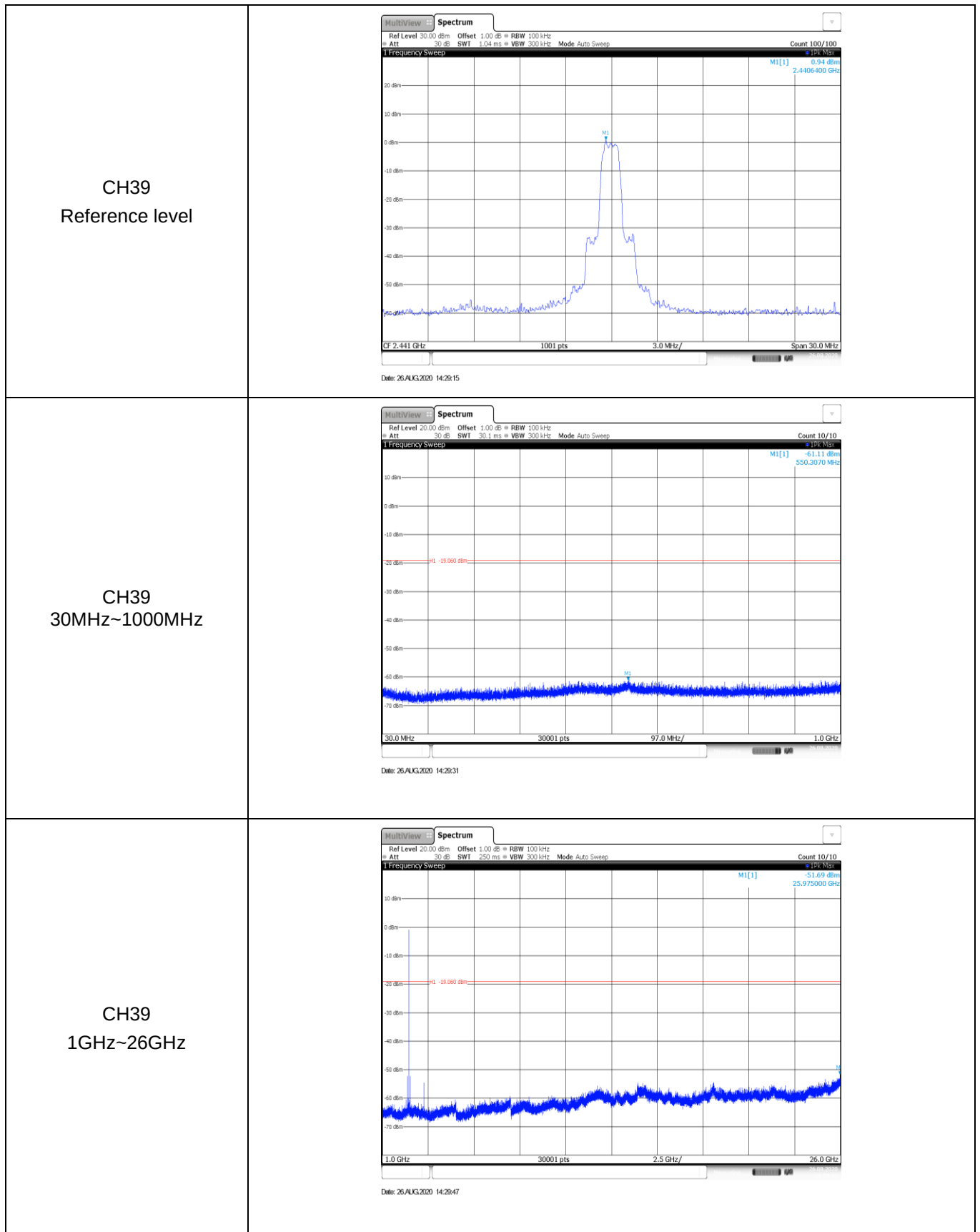
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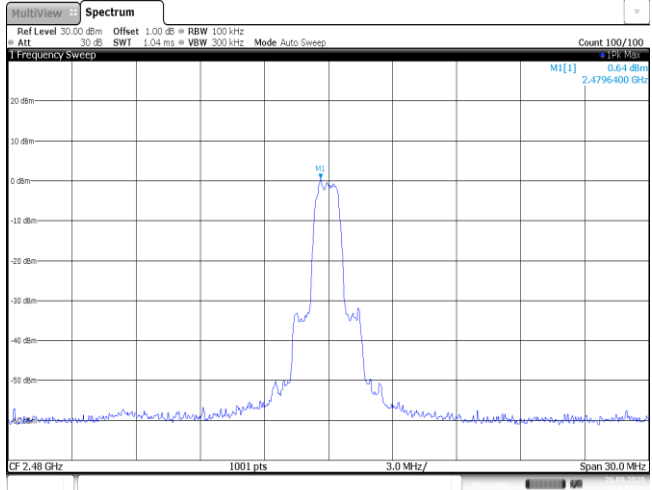
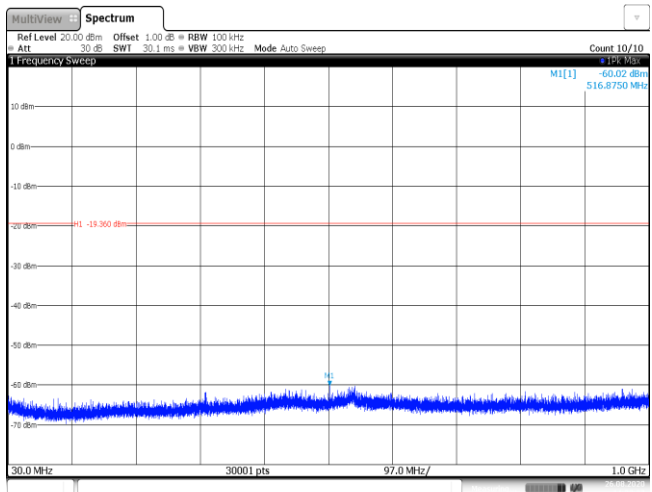
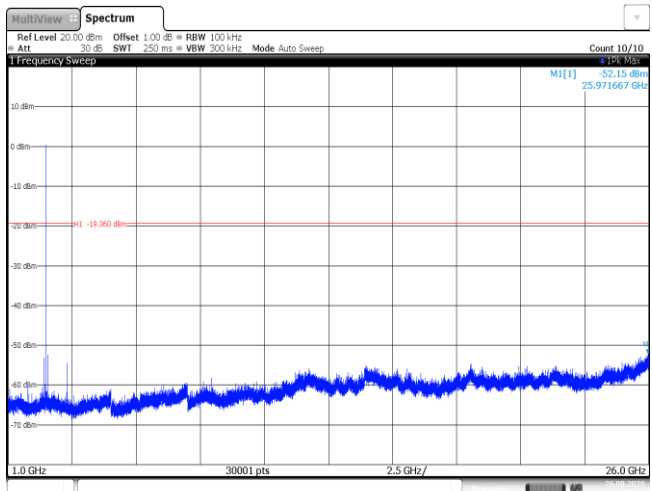
Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

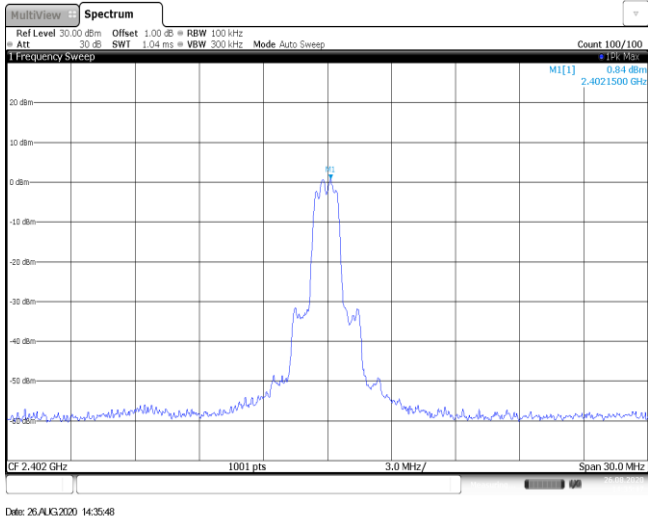
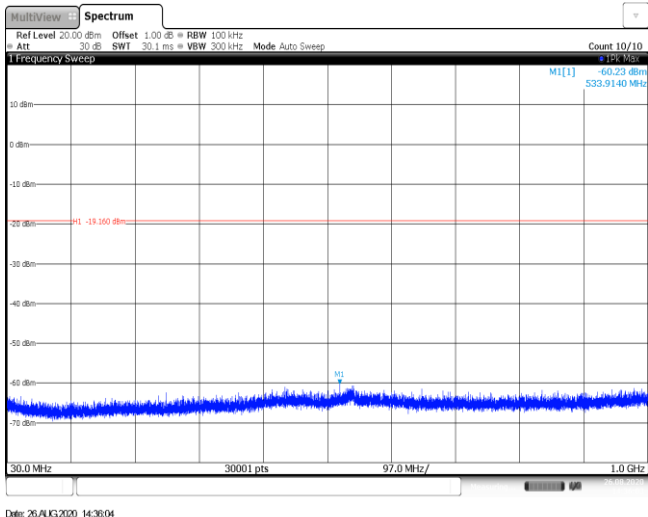
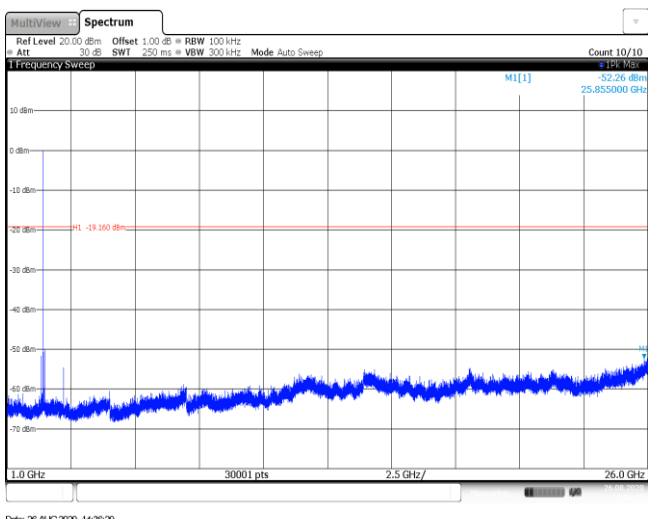
CH39 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 2.99 dBm 2.4409100 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26/AUG/2020 14:18:22
CH39 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.19 dBm 565.8590 MHz M1 -17.010 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 26/AUG/2020 14:18:38
CH39 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.07 dBm 25.976667 GHz M1 -17.010 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 26/AUG/2020 14:18:54

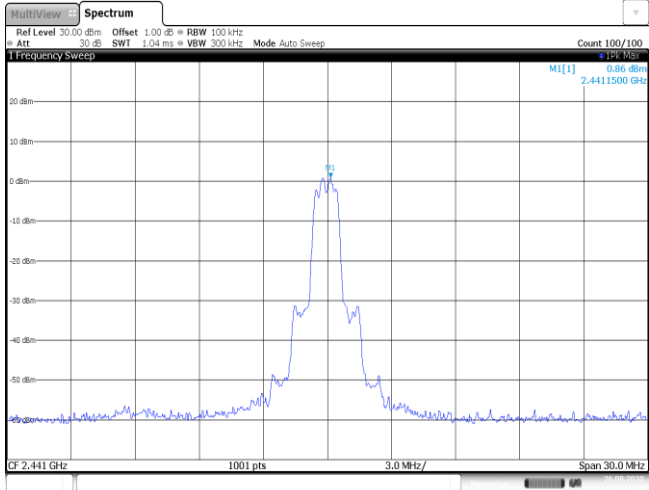
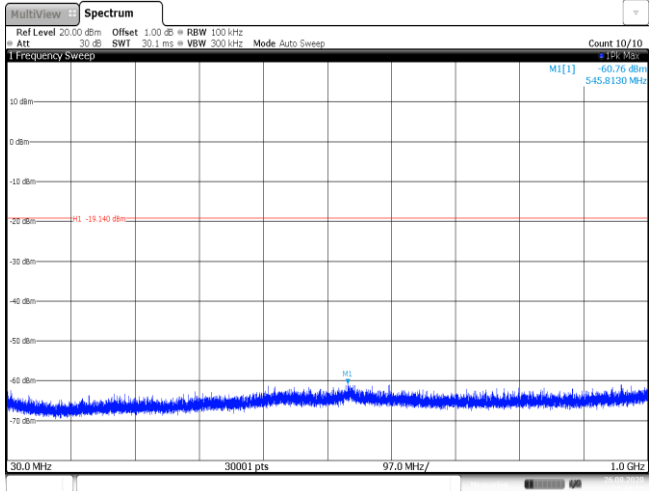
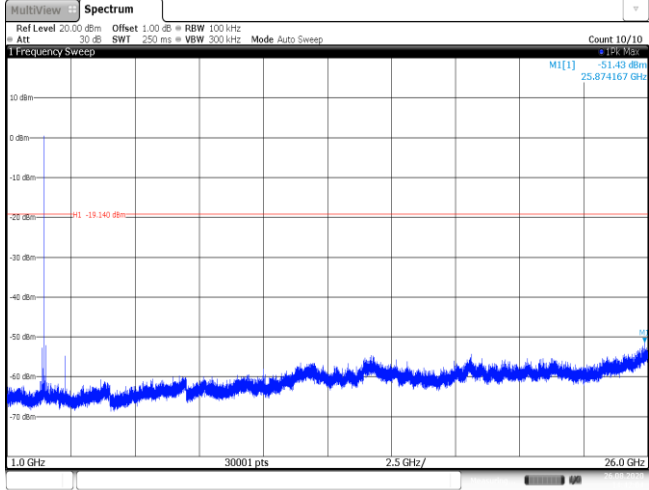
CH78 Reference level	 The spectrum plot shows a single sharp peak at 2.48 GHz. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in MHz, ranging from 2.4799100 to 2.4799100 GHz. The peak is labeled 'M1' with a value of 2.71 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Mode Auto Sweep, Count 100/100, Att 30 dB, SWF 1.04 ms, VBW 300 kHz. The date is 26/AUG/2020 14:20:01.
CH78 30MHz~1000MHz	 The spectrum plot shows a noisy baseline across the 30 MHz to 1000 MHz range. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in MHz, ranging from 30.0 to 1000.0. A red horizontal line is drawn at -17.200 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Mode Auto Sweep, Count 10/10, Att 30 dB, SWF 30.1 ms, VBW 300 kHz. The date is 26/AUG/2020 14:20:17.
CH78 1GHz~26GHz	 The spectrum plot shows a noisy baseline across the 1 GHz to 26 GHz range. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in GHz, ranging from 1.0 to 26.0. A red horizontal line is drawn at -17.200 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Mode Auto Sweep, Count 10/10, Att 30 dB, SWF 250 ms, VBW 300 kHz. The date is 26/AUG/2020 14:20:33.

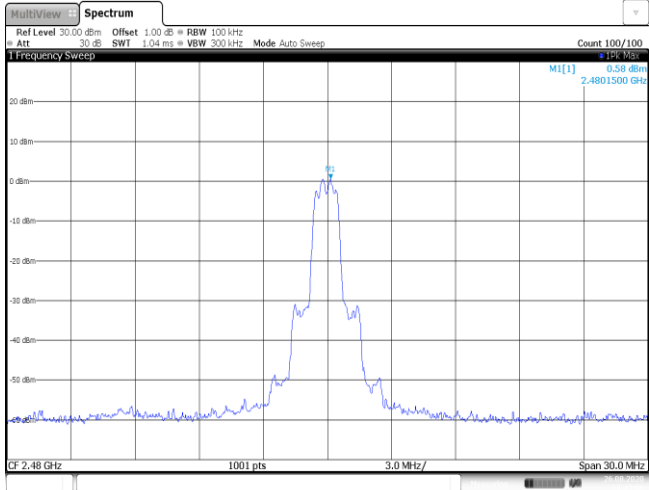
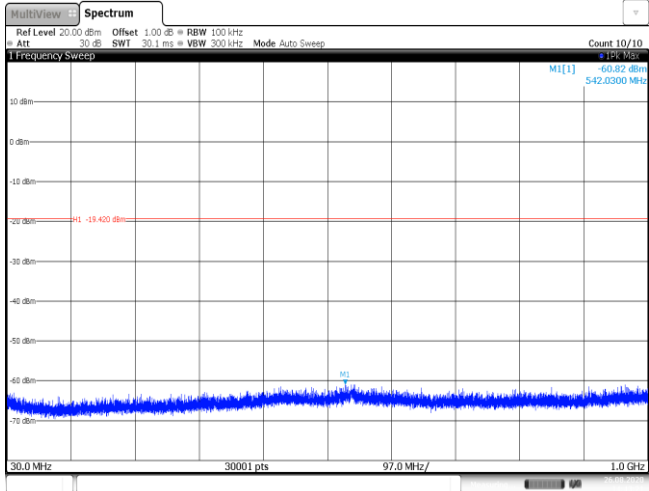
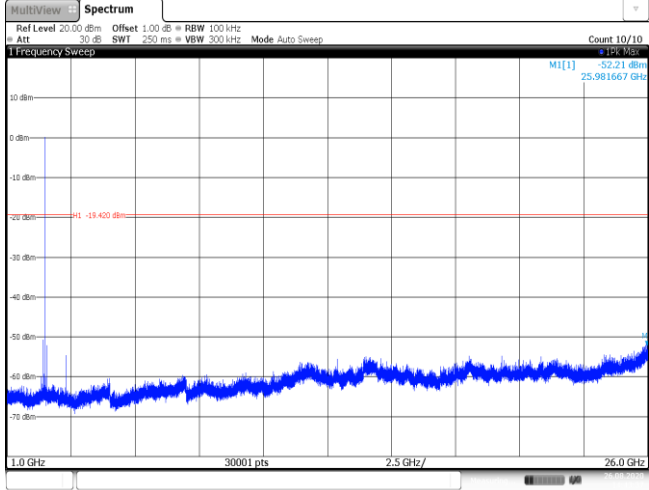
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			



CH78 Reference level	 The spectrum plot shows a single sharp peak at 2.48 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The peak is labeled M1[1] with a value of 0.64 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWI 1.04 ms, VBW 300 kHz, Mode Auto Sweep. The date is 26/AUG/2020 14:32:11.
CH78 30MHz~1000MHz	 The spectrum plot shows a wide range of frequencies from 30.0 MHz to 1.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 97.0 MHz. A horizontal red line is drawn at -19.360 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWI 30.1 ms, VBW 300 kHz, Mode Auto Sweep. The date is 26/AUG/2020 14:32:27.
CH78 1GHz~26GHz	 The spectrum plot shows a wide range of frequencies from 1.0 GHz to 26.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a span of 2.5 GHz. A horizontal red line is drawn at -19.360 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWI 250 ms, VBW 300 kHz, Mode Auto Sweep. The date is 26/AUG/2020 14:32:43.

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

CH39 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep MI[1] 0.86 dBm 2.4411500 GHz CF 2.441 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26/AUG/2020 14:41:31
CH39 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Frequency Sweep MI[1] -60.76 dBm 545.8130 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 26/AUG/2020 14:41:47
CH39 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Frequency Sweep MI[1] -51.43 dBm 25.874167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 26/AUG/2020 14:42:03

CH78 Reference level	
CH78 30MHz~1000MHz	
CH78 1GHz~26GHz	

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