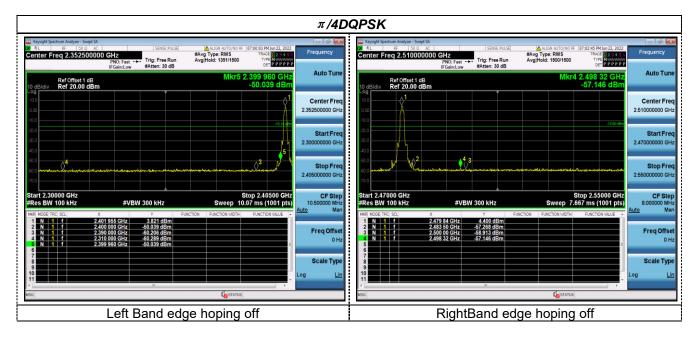


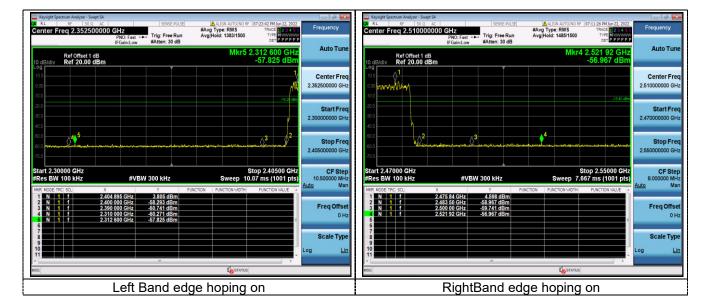
Band-edge Measurements for RF Conducted Emissions:

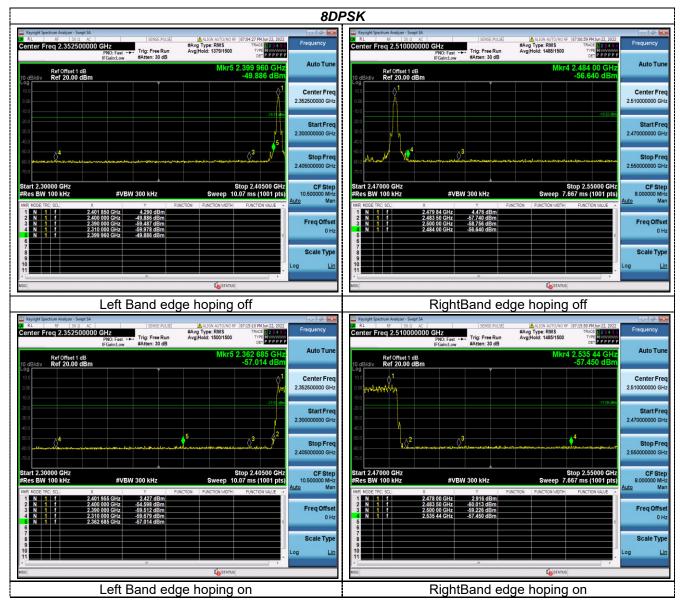
	G	FSK
Keysigkt Spectrum Analyzer - Swept SA SENS R L RF S9.0 AC SENS Center Freq 2.35525000000 GHz PNO: Fast +>> Trig: Free IF Galance.uw #Kten: 3 Trig: Action 1		Keysigkt Spectrum Analyzer - Swept SA SSIGE PULSE Auton Autom Analyzer - Swept SA Frequency R L RF SS B AC SSIGE PULSE Auton Auton NO RF GeS SE2 PM Jun 22, 2022 Frequency Center Freq 2.5100000000 GHz IFGalt.com Trig: Free Run Astten: 30 db Trig: Free Run Augitold: 1497/1500 Trig: Free Run PULSE Frequency
Ref Offset 1 dB 10 dB/div Ref 20.00 dBm	Mkr5 2.399 960 GHz -49.197 dBm	Ref Offset 1 dB Mkr4 2.484 00 GHz Auto Tune 10 dBidiv Ref 20.00 dBm -56.465 dBm
	01 Center Freq 2.352500000 GHz	Conter Freq 2.510000000 GHz 100
-200 	Start Freq 2.3000000 GHz Stop Freq	300 400 400 400 400 400 400 400 400 400
-60.0 http://www.selecter.com///www.selecter.com////////////////////////////////////	2.405000000 GHz	All Deleted Manual and a standard and and a standard and standard and a standard and a standard and and a standard and a stand
Start 2.30000 GHz #Res BW 100 kHz #VBW 300 kHz	Auto Man	Start 2.47000 GHz Stop 2.55000 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 7.667 ms (1001 pts) Automation Automation
MeR MODE TRC Scl. X Y Y 1 N 1 f 2.401 850 GHz 4.189 GHz 2 N 1 f 2.401 850 GHz 4.181 97 GHZ 3 N 1 f 2.300 000 GHz 4.9197 GHZ 3 N 1 f 2.398 000 GHz 4.90 012 GHZ 4 N 1 f 2.310 000 GHz 4.90 GHZ 4.9197 GHZ 5 1 f 2.399 960 GHz 4.9197 dHZ 5.00 GHZ	3m 0 Hz	Mon Mode Tricl Sci. X Y Function Function <t< th=""></t<>
7 8 9 10 11 11 *	Scale Type	7 Scale Type 9 Scale Type 10 Log
	Ko status	
Keysight Spectrum Analyzer - Swept SA	edge hoping off	RightBand edge hoping off
Center Freq 2.352500000 GHz PN0: Fast →→ IFGaint.tow #Atten: 3	0 dB DET PPPPP	All RF 35 0 AC Senserus: Autor AUTON AVE (276:13P4/Junz 22022 Center Freq 2.510000000 GHz PNO: Fast → Trig: FreeRun Avg Hold: 1450/1500 Trig ForePreperiod Frequency
Ref Offset 1 dB	Mkr5 2.383 895 GHz -56.673 dBm	Ref Offset 1 dB Mkr4 2.526 48 GHz Auto Tune
	Center Freq 2.352500000 GHz	100 1 Center Freq 2.510000000 GHz 100 111111 1 S State
-0.0	2.30000000 GHz	300 Start Freq 300 2.47000000 GHz
400 400 	5 3 2 Stop Freq 2.40500000 GHz	200 300 400 300 700 300 500 500 500 500
Start 2.30000 GHz #Res BW 100 kHz #VBW 300 kHz	Auto Man	Start 2.47000 GHz Stop 2.55000 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 7.667 ms (1001 pts) .0000 MHz
Implementation Y	3m 0.Hz	Min Mode Tricl Sci. X Y Function Function worth Fu
7 8 9 10 11 4 4 7 7 7 8 9 9 10 10 11 11 7 7 7 8 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	Scale Type	7 8 Scale Type 10 10 10 11 10 10
	Lo status	
Lett Band	edge hoping on	RightBand edge hoping on



Report No.: GTS20220614007-1-1

Page 40 of 47





4.9 Pseudorandom Frequency Hopping Sequence

TEST APPLICABLE

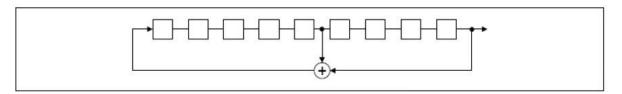
For 47 CFR Part 15C section 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the firststage. The sequence begins with the first one of 9 consecutive ones, forexample: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:

0	2	4	6	62	64	78	1		73 75 7
				 Γ	П				
						1	L		
				1					
			Ц.,		L).	L		}	

Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

4.10 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The maximum gain of antenna was 0dBi.

5 <u>Test Setup Photos of the EUT</u>











Photos of the EUT **External Photos of EUT**









