

The proposed document “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVCIES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION” specifies that the characteristics of each waveform be provided (see Section 8.3, Number 17 d).

This reporting requirement only matters for the randomized waveforms. The Type 1 waveform has fixed parameters therefore the characteristics of this waveform are specified by the FCC procedure.

Additionally there is explicit guidance, in the form of sample data sheets, regarding the characteristics to be reported for the randomized Types 2 through 5 waveforms. However no such guidance is provided to clarify the characteristics to be reported for the randomized Type 6 waveform.

The document needs to be clear and consistent in this regard. Section 8.3, number 17 d ought to refer only to the randomized waveforms. Additionally if no characteristics for the Type 6 radar waveform need be reported, then Section 8.3, number 17 d needs to be changed accordingly.

This comment proposes that the most salient characteristics of the hopping waveform be reported, so that the randomized characteristics reported for the Type 6 waveform are similar to the randomized characteristics reported for Type 2 through 5 waveforms. The changes proposed can be implemented with very little additional burden on test laboratories.

The most important characteristic of the frequency hopping waveform is the number of hops that lie within the detection bandwidth. This number ought to be included as a reporting requirement.

For tests that utilize the Method #2 frequency hopping waveform generating system, the frequency at which the signal generator is set for each trial is also an important characteristic. This number ought to be included as a reporting requirement.

Since computer control is required to perform the test with the Type 6 waveform, these parameters are already calculated and available, Reporting this information only requires the addition of one (for Method #1 systems) or two (for Method #2 systems) columns to the existing data sheet format.

The following updated reporting requirements are proposed, in order to clarify the reporting requirements of the randomized waveforms:

Change Section 8.3 Number 17 d to:

“For each of the randomized waveforms that were used for each signal type, supply the characteristics (such as pulse width, pulse repetition interval, number of pulses per burst, modulation, number of hops within detection bandwidth). Sample data sheets Tables 8 through 11b show the exact characteristics to be reported for each radar type.”

Change Table 8, and add Tables 11a and 11b, as shown below:

Table 8: Sample Data Sheet for radar Waveforms 1 and 5
 [Use a Separate Data Sheet for Each radar Type]

Radar Waveform	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1 or 5	1		16	
	2		17	
	3		18	
	4		19	
	5		20	
	6		21	
	7		22	
	8		23	
	9		24	
	10		25	
	11		26	
	12		27	
	13		28	
	14		29	
	15		30	

Table 11a: Sample Data Sheet for radar Test Waveform 6 when testing is performed with the Method #1 Waveform Generating System

Radar Waveform	Trial #	Number of Hops within the Detection Bandwidth	Detection
			Yes / No
6	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		

Table 11b: Sample Data Sheet for radar Test Waveform 6 when testing is performed with the Method #2 Waveform Generating System

Radar Waveform	Trial #	Number of Hops within the Detection Bandwidth	Signal Generator Frequency (MHz)	Detection
				Yes / No
6	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
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