

10.7. Appendix G: Duty Cycle 10.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11b	8.425	8.597	0.9799	98.00	0	0.01	0.01
11g	1.393	1.558	0.8941	89.41	0.49	0.72	1
11n HT20	1.306	1.471	0.8878	88.78	0.52	0.77	1
11n HT40	0.645	0.809	0.7973	79.73	0.98	1.55	2

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



10.7.2. Test Graphs

11B_Ant2_2437	
Keysight Spectrum Analyzer - Swept SA	- 2 -
WIRL RF 50.0 Center Freq 2.43700000 GHz Trig Delay-200.0 µs #A/gt 7/gt 202.0 µs	Frequency
Ref Offset 19.79 dB ΔMkr3 8.579 ms 10 dB/div Ref 35.00 dBm -2.12 dB	Auto Tune
	Center Freq
	2.437000000 GHz
	Start Freq 2.437000000 GHz
350	
450	Stop Freq 2.437000000 GHz
Center 2.437000000 GHz Span 0 Hz Res BW 8 MHz #VBW 8.0 MHz Sweep 30.00 ms (30001 pts)	CF Step 8.000000 MHz
μαση μασε μπε (sc.) x y Function Function wave - 1 Δ2 t t Δ.25 ms Δ.1.97 dB B 2 F 1 2.227 ms 2.1.05 dB m -	<u>Auto</u> Man
I Δ4 1 t (Δ) 8.579 ms (Δ) -2.12 dB 4 F 1 t 2.227 ms 21.05 dBm 6 6 6 6 6	Freq Offset 0 Hz
7	Scale Type
9 10 11	Log <u>Lin</u>
MSG STATUS	
11G_Ant2_2437	
Keysight Spectrum Analyzer - Swept SA Image: RL RF 50 Ω DC SENSE:INT ALIGN AUTO 01:14:59 PM Aug 24, 2020	
Center Freq 2.437000000 GHz NFE PNC: Fast →→ Trig: Video FrGatinutow #Atten: 40 db certify PPP PP PP	Frequency
Ref Offset 19.79 dB ΔMkr3 1.558 ms 10 dB/div Ref 35.00 dBm -0.29 dB	Auto Tune
	Center Freq
150 september 1997 - The sector of the secto	2.437000000 GHz
-5:00 -1:50	Start Freq 2.437000000 GHz
45.0	Stop Freq 2.437000000 GHz
Center 2.437000000 GHz Span 0 Hz Res BW 8 MHz #VBW 8.0 MHz Sweep 10.13 ms (8000 pts)	CF Step 8.000000 MHz
MMR MODEL FIG SCL X Y FUNCTION FUNCTION VALUE 1 N 1 1 1549 ms 17.12 dBm FUNCTION FUNCTION VALUE	<u>Auto</u> Man
2 Δ1 1 t (Δ) 1.393 ms (Δ) 2.37 dB Δ1 1 t (Δ) 1.558 ms (Δ) -0.29 dB 5	Freq Offset 0 Hz
6 7 8	Scale Type
9 10 11	Log <u>Lin</u>
MSG STATUS	





END OF REPORT