



# 13. Duty Cycle Of Test Signal

#### 13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

#### 13.3 Test Procedure

- 1.Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

#### 13.4 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
b	2412	100	0
g	2412	100	0
n20	2412	100	0
n40	2422	100	0





	Du	Test G	<b>rapns</b> NT b 2412MH:	2	
Agilent Spectrum Analyzer - Swept SA					
RL RF 50 Ω AC enter Freq 2.4120000	00 GHz PNO: Fast ↔ IFGain:Low	SENSE:INT → Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	02:16:41 AM Aug 23, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N	Frequency
Ref Offset 2.59 dl dB/div Ref 22.59 dBn	В			Mkr1 50.00 ms 10.17 dBm	Auto Tur
2.6					Center Fre
.59					2.412000000 GH
7.4					Start Fre 2.412000000 GH
7.4					<b>Stop Fre</b> 2.412000000 GH
enter 2.412000000 GHz es BW 8 MHz		V 8.0 MHz	Sweep 10	Span 0 Hz 0.0 ms (10001 pts)	CF Ste 8.000000 MI
R MODE TRC SCL	X	Y FU	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 t 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	50.00 ms	10.17 dBm			Freq Offs 0 H
5 6 7				E	
8					
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3	Du		statu NT g 2412MHz		
Agilent Spectrum Analyzer - Swept SA R.L RF 50 Ω AC	C			02:18:08 AM Aug 23, 2024	Frequency
Agilent Spectrum Analyzer - Swept SA	C		NT g 2412MH	2 02:18:08 AM Aug 23, 2024	Frequency
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AG enter Freq 2.41200000 Ref Offset 2.59 dl dB/div Ref 22.59 dBn	00 GHz PN0: Fast ↔ IFGain:Low		NT g 2412MH	02:18:08 AM Aug 23, 2024	Frequency
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AG enter Freq 2.41200000 Ref Offset 2.59 dBn 29 26	00 GHz PN0: Fast ↔ IFGain:Low		NT g 2412MH	2 02:18:08 AM Aug 23, 2024 TRACE 2 3 4 5 6 TYPE WWWWW DET P NNNN N Mkr1 50.00 ms	Frequency Auto Tur Center Fre
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Agilent Spectrum Analyzer - Swept SA RL RF 50 Q. AG enter Freq 2.41200000 Ref Offset 2.59 dl dB/div Ref 22.59 dBm 20 10 10 10 10 10 10 10 10 10 10 10 10 10	00 GHz PN0: Fast ↔ IFGain:Low		NT g 2412MH	2 02:18:08 AM Aug 23, 2024 TRACE 2 3 4 5 6 TYPE WWWWW DET P NNNN N Mkr1 50.00 ms	Frequency Auto Tur Center Fre 2.41200000 GH Start Fre
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		y Cycle NVN	T n20 2412MHz		
Jagilent Spectrum Analyzer - Swept S	AC	SENSE:INT		02:19:55 AM Aug 23, 2024	Frequency
Center Freq 2.412000	PNO: Fast +	<ul> <li>Trig: Free Run</li> <li>#Atten: 30 dB</li> </ul>	Avg Type: Log-Pwr	TRACE 123456 TYPE WWWWWW DET P N N N N N	Frequency
	IFGain:Low	#Atten: 30 dB	Μ	kr1 50.00 ms	Auto Tune
Ref Offset 2.59 10 dB/div Ref 22.59 dE				6.36 dBm	
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-7.41					
-27.4					Start Freq 2.412000000 GHz
-37.4					
-47.4					Stop Freq
-67.4					2.412000000 GHz
Center 2.412000000 GH	lz			Span 0 Hz	CF Step
Res BW 8 MHz		W 8.0 MHz	Sweep 100.0	) ms (10001 pts)	8.000000 MHz Auto Man
MKR MODE TRC SCL	× 50.00 ms	Y FU 6.36 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 3					Freq Offset
4 5 6				E	0 Hz
7					
9					
11					
MSG			STATUS		
B		y Cycle NVN	T n40 2422MHz		
Agilent Spectrum Analyzer - Swept S           RL         RF         50 Ω	AC	SENSE:INT	ALIGN AUTO	02:22:21 AM Aug 23, 2024 TRACE <b>1 2 3 4 5 6</b>	Frequency
Center Freq 2.422000	PNO: Fast ← IFGain:Low	▲ Trig: Free Run #Atten: 30 dB	Avg Type. Log-Pwi	TYPE WWWWWW DET P NNNNN	
Ref Offset 2.59			M		
			IV.	kr1 50.00 ms	Auto Tune
10 dB/div Ref 20.00 dE				kr1 50.00 ms 3.24 dBm	Auto Tune
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10.0				kr1 50.00 ms 3.24 dBm	<b>Center Freq</b> 2.422000000 GHz
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Log 1000 0000 -1000 -2000 -3000 -4000				kr1 50.00 ms 3.24 dBm	Center Freq 2.422000000 GHz Start Freq
Log 1000 0000 -10.0 -20.0 -30.0				kr1 50.00 ms 3.24 dBm	Center Freq 2.42200000 GHz Start Freq 2.422000000 GHz Stop Freq
Log 100 000 -100 -200 -300 -400 -500				kr1 50.00 ms 3.24 dBm	Center Freq 2.42200000 GHz Start Freq 2.422000000 GHz Stop Freq
Log 1000 	3m second second secon			3.24 dBm	Center Freq 2.42200000 GHz Start Freq 2.42200000 GHz Stop Freq 2.422000000 GHz CF Step
Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0 Center 2.422000000 GH Res BW 8 MHz	3m Intervalue direction Iz Iz #VB	W 8.0 MHz	Sweep 100.1	3.24 dBm	Center Freq 2.42200000 GHz Start Freq 2.42200000 GHz Stop Freq 2.42200000 GHz CF Step 8.00000 MHz
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Log 100 100 100 100 200 300 -300 -400 -600 -600 -700 Center 2.422000000 GH Res BW 8 MHz MKR MODE TRC SCL 1 N 1 t 2 3 4 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3m transmenter server et et en en et et et server et et en en et et et server et et en et	Y FU	Sweep 100.1	3.24 dBm	Start Freq 2.422000000 GHz Stop Freq 2.422000000 GHz CF Step 8.000000 MHz
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# 14. Antenna Requirement

#### 14.1 Limit

15.203 requirement: For intentional device, according to 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.

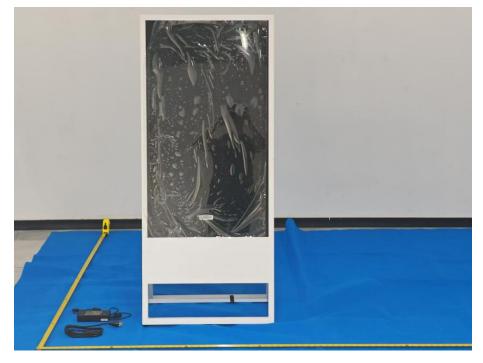
#### 14.2 Test Result

The antenna is RP-SMA antenna, fulfill the requirement of this section.

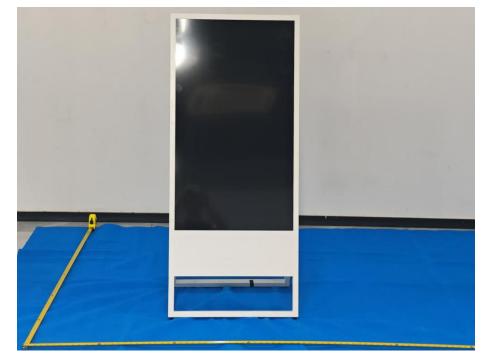


### 15. EUT Photographs

# EUT Photo 1



#### EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.



# 16. EUT Test Setup Photographs

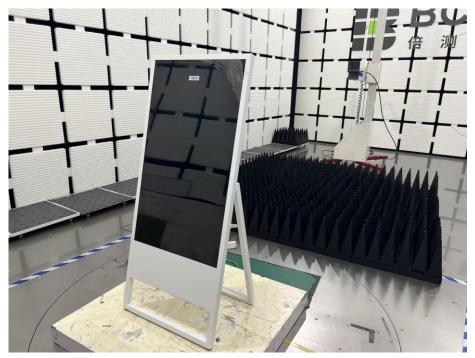
### **Conducted Emissions Photo**

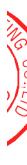


**Radiated Measurement Photos** 











### STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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\*\*\*\*\* END \*\*\*\*\*