

14. Duty Cycle Of Test Signal

14.1 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.

14.2 Formula

Duty Cycle = Ton / (Ton+Toff)

14.3 Test Procedure

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

14.4 Test Result

5.1G				
Condition	Mode	Duty Cycle (%)	Correction Factor (dB)	
NVNT	а	5180	0	
NVNT	n20	5180	0	
NVNT	n40	5190	0	
NVNT	ac20	5180	0	
NVNT	ac40	5190	0	
NVNT	ac80	5210	0	





	Test G Duty Cycle NVN		,	
gilent Spectrum Analyzer - Swept SA	Duty Cycle NVI			
RL RF 50Ω AC enter Freq 5.180000000 GI F	HZ NO: Fast →→→ Trig: Free Run Gain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	03:18:45 PM Aug 30, 2024 TRACE 123456 TYPE WWWWWW DET P. N N N N	Frequency
Ref Offset 0.5 dB 0 dB/div Ref 20.00 dBm	Come on the second s		Mkr1 5.000 ms -0.98 dBm	Auto Tune
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20.0				Start Fred 5.180000000 GH;
50.0				Stop Free 5.18000000 GH:
Center 5.180000000 GHz Res BW 8 MHz	#VBW 8.0 MHz	Sweep 10.	Span 0 Hz 00 ms (10001 pts) FUNCTION VALUE	CF Step 8.000000 MH: <u>Auto</u> Mar
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glient Spectrum Analyzer - Swept SA RL RF 50.Ω AC enter Freq 5.180000000 GI F Ref Offset 0.5 dB 0 dB/div Ref 20.00 dBm	HZ N0: Fast →→ Trig: Free Run	T n20 5180MH	03:18:52 PM Aug 30, 2024 TRACE 1 2 3 4 5 6 TYPE WAAAAAAAA	
RL RF 50 Ω AC enter Freq 5.180000000 GI F <	HZ N0: Fast →→ Trig: Free Run	T n20 5180MH	03:18:52PM Aug 30, 2024 TRACE 23 4 5 6 TYPE WWWWWW DET P N N N N Mkr1 5.000 ms 0.80 dBm	Auto Tune Center Free
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RL RF 50 enter Freq 5.1900	Ω AC 000000 GHz PN0: Fast ←	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	03:20:17 PM Aug 30, 2024 TRACE 123456 TYPE WWWWW DET PNNNNN	Frequency
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5.8G

Condition	Mode	Duty Cycle (%)	Correction Factor (dB)
NVNT	а	100	0
NVNT	n20	100	0
NVNT	n40	100	0
NVNT	ac20	100	0
NVNT	ac40	100	0
NVNT	ac80	100	0

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RL RF 5 Center Freq 5.775	0Ω AC 0000000 GHz PN0: Fast •	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	03:12:18 PM Aug 30, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N	Frequency
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800	#VB	Y FL	-	00 ms (10001 pts)	Stop Free 5.775000000 GH: CF Step 8.000000 MH:



15. Antenna Requirement

15.1 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.

15.2 Test Result

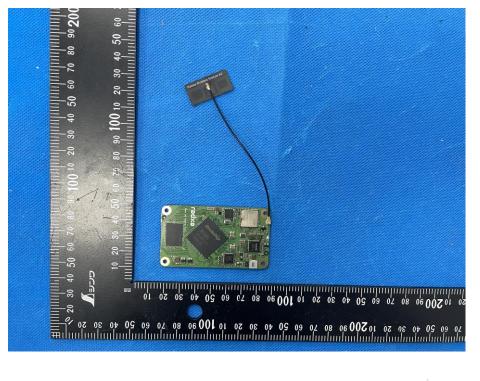
The EUT antenna is FPC antenna, The IPEX antenna connector is adopted.

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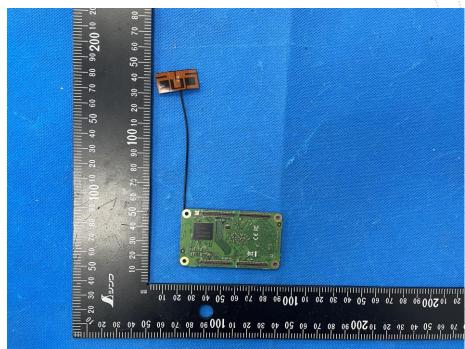


16. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

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17. EUT Test Setup Photographs

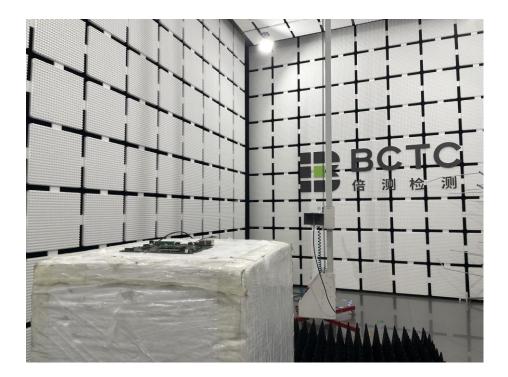
Conducted Emissions Photo



Radiated Measurement Photos







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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.

Address:

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***** END *****

No.: BCTC/RF-EMC-005