

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5199.9837	5200	-0.0163	-3.13
		V max (V)	4.2	5199.9821	5200	-0.0179	-3.44
		V min (V)	3.3	5199.9856	5200	-0.0144	-2.77
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5199.9866	5200	-0.0134	-2.58
		T (°C)	-10	5199.9809	5200	-0.0191	-3.67
		T (°C)	0	5199.9852	5200	-0.0148	-2.85
		T (°C)	10	5199.9865	5200	-0.0135	-2.60
		T (°C)	20	5199.9829	5200	-0.0171	-3.29
		T (°C)	30	5199.9853	5200	-0.0147	-2.83
		T (°C)	40	5199.9846	5200	-0.0154	-2.96
		T (°C)	50	5199.9883	5200	-0.0117	-2.25
		T (°C)	60	5199.9802	5200	-0.0198	-3.81
		T (°C)	70	5199.9804	5200	-0.0196	-3.77
Limits				5150-5250 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5239.9818	5240	-0.0182	-3.47
		V max (V)	4.2	5239.9806	5240	-0.0194	-3.70
		V min (V)	3.3	5239.9817	5240	-0.0183	-3.49
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5239.9822	5240	-0.0178	-3.40
		T (°C)	-10	5239.9852	5240	-0.0148	-2.82
		T (°C)	0	5239.9857	5240	-0.0143	-2.73
		T (°C)	10	5239.9815	5240	-0.0185	-3.53
		T (°C)	20	5239.9889	5240	-0.0111	-2.12
		T (°C)	30	5239.9816	5240	-0.0184	-3.51
		T (°C)	40	5239.9848	5240	-0.0152	-2.90
		T (°C)	50	5239.9805	5240	-0.0195	-3.72
		T (°C)	60	5239.9823	5240	-0.0177	-3.38
		T (°C)	70	5239.9827	5240	-0.0173	-3.30
Limits				5150-5250 MHz			
Result				Complies			

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC3.8V
Test Mode:	TX (5.8G) Mode Frequency U-NII-3 (5745-5825MHz)		

Voltage vs. Frequency Stabilit

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5744.9873	5745	-0.0127	-2.21
		V max (V)	4.2	5744.9833	5745	-0.0167	-2.91
		V min (V)	3.3	5744.9834	5745	-0.0166	-2.89
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5744.9851	5745	-0.0149	-2.59
		T (°C)	-10	5744.9871	5745	-0.0129	-2.25
		T (°C)	0	5744.9802	5745	-0.0198	-3.45
		T (°C)	10	5744.9826	5745	-0.0174	-3.03
		T (°C)	20	5744.9837	5745	-0.0163	-2.84
		T (°C)	30	5744.9854	5745	-0.0146	-2.54
		T (°C)	40	5744.9811	5745	-0.0189	-3.29
		T (°C)	50	5744.9854	5745	-0.0146	-2.54
		T (°C)	60	5744.9888	5745	-0.0112	-1.95
		T (°C)	70	5744.9854	5745	-0.0146	-2.54
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5784.9855	5785	-0.0145	-2.51
		V max (V)	4.2	5784.9883	5785	-0.0117	-2.02
		V min (V)	3.3	5784.9851	5785	-0.0149	-2.58
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5784.9821	5785	-0.0179	-3.09
		T (°C)	-10	5784.9825	5785	-0.0175	-3.03
		T (°C)	0	5784.9802	5785	-0.0198	-3.42
		T (°C)	10	5784.9856	5785	-0.0144	-2.49
		T (°C)	20	5784.9841	5785	-0.0159	-2.75
		T (°C)	30	5784.9832	5785	-0.0168	-2.90
		T (°C)	40	5784.9835	5785	-0.0165	-2.85
		T (°C)	50	5784.9806	5785	-0.0194	-3.35
		T (°C)	60	5784.9868	5785	-0.0132	-2.28
		T (°C)	70	5784.9863	5785	-0.0137	-2.37
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5824.9841	5825	-0.0159	-2.73
		V max (V)	4.2	5824.9872	5825	-0.0128	-2.20
		V min (V)	3.3	5824.9823	5825	-0.0177	-3.04
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5824.9835	5825	-0.0165	-2.83
		T (°C)	-10	5824.9858	5825	-0.0142	-2.44
		T (°C)	0	5824.9854	5825	-0.0146	-2.51
		T (°C)	10	5824.9857	5825	-0.0143	-2.45
		T (°C)	20	5824.9842	5825	-0.0158	-2.71
		T (°C)	30	5824.9879	5825	-0.0121	-2.08
		T (°C)	40	5824.9837	5825	-0.0163	-2.80
		T (°C)	50	5824.9831	5825	-0.0169	-2.90
		T (°C)	60	5824.9829	5825	-0.0171	-2.94
		T (°C)	70	5824.9874	5825	-0.0126	-2.16
Limits				5725-5850 MHz			
Result				Complies			

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 = $T_{on} / (T_{on} + T_{off})$

14.3 Test Procedure

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

14.4 Test Result

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	100	0	0
NVNT	a	5200	100	0	0
NVNT	a	5240	100	0	0
NVNT	n20	5180	100	0	0
NVNT	n20	5200	100	0	0
NVNT	n20	5240	100	0	0
NVNT	n40	5190	100	0	0
NVNT	n40	5230	100	0	0
NVNT	ac20	5180	100	0	0
NVNT	ac20	5200	100	0	0
NVNT	ac20	5240	100	0	0
NVNT	ac40	5190	100	0	0
NVNT	ac40	5230	100	0	0
NVNT	ac80	5210	100	0	0

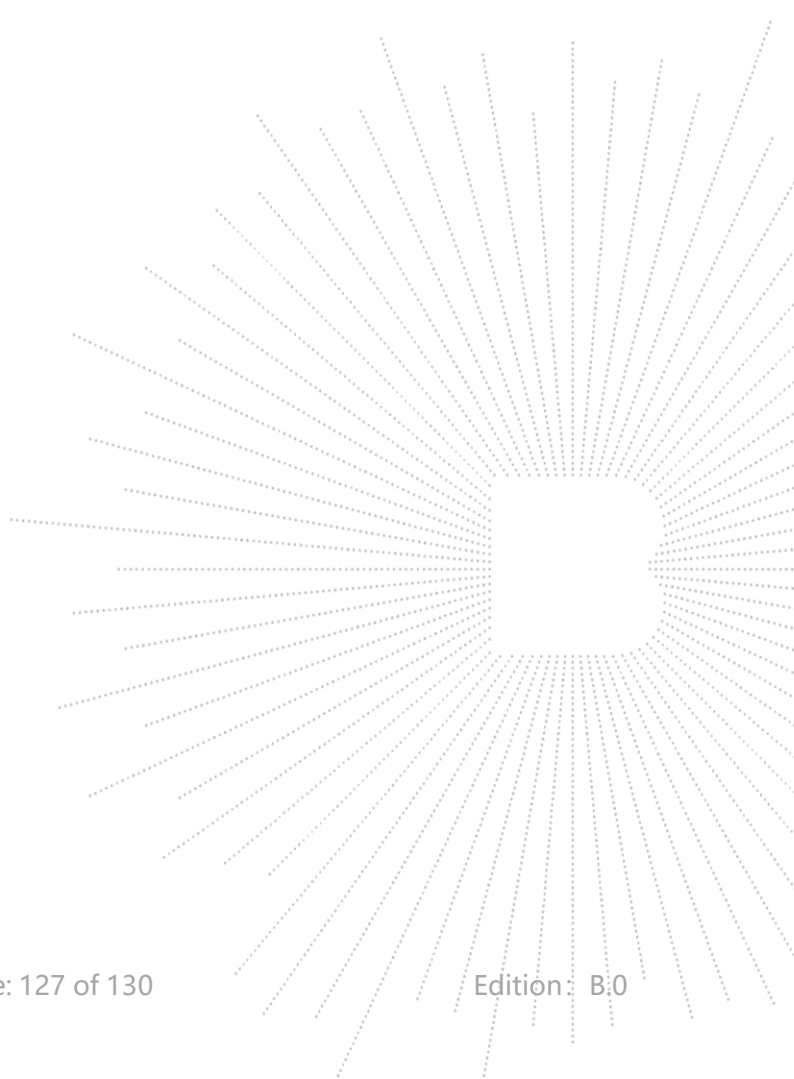
15. Antenna Requirement

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.

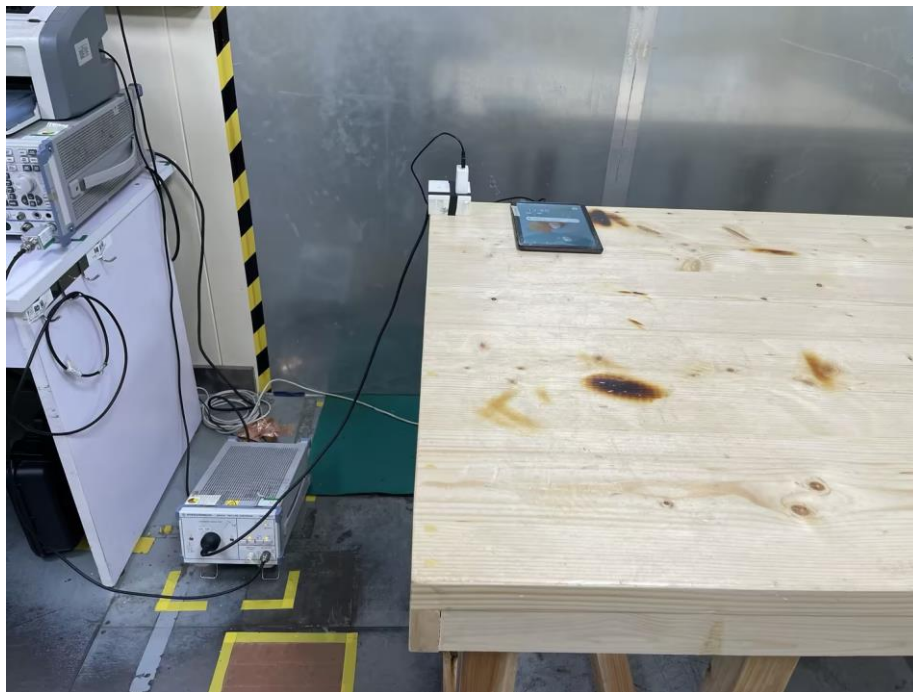
15.2 Test Result

The EUT antenna is internal antenna, fulfill the requirement of this section.



16. EUT Test Setup Photographs

Conducted emissions



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 *****