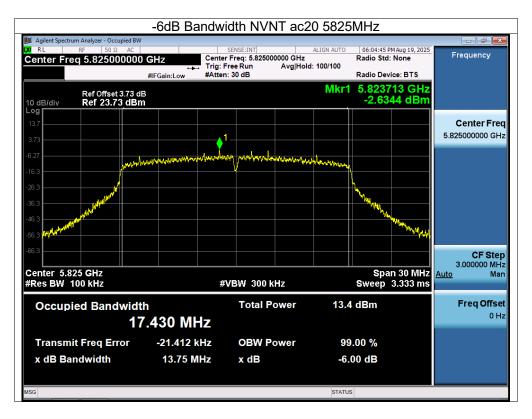


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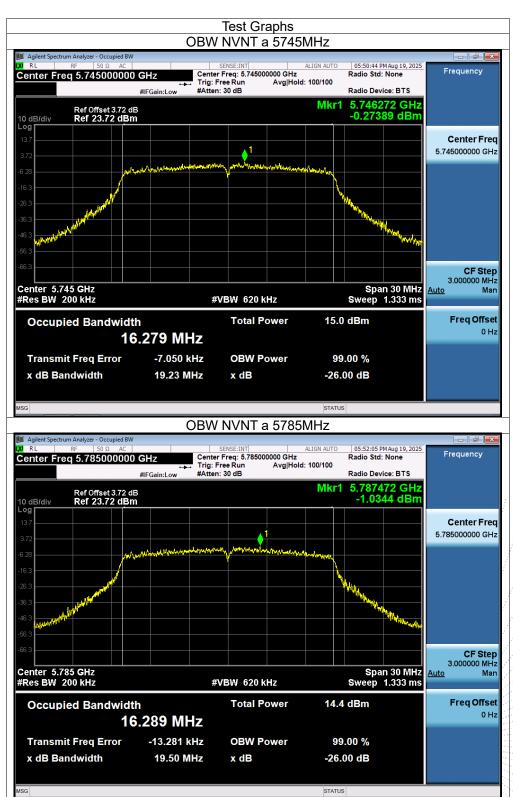






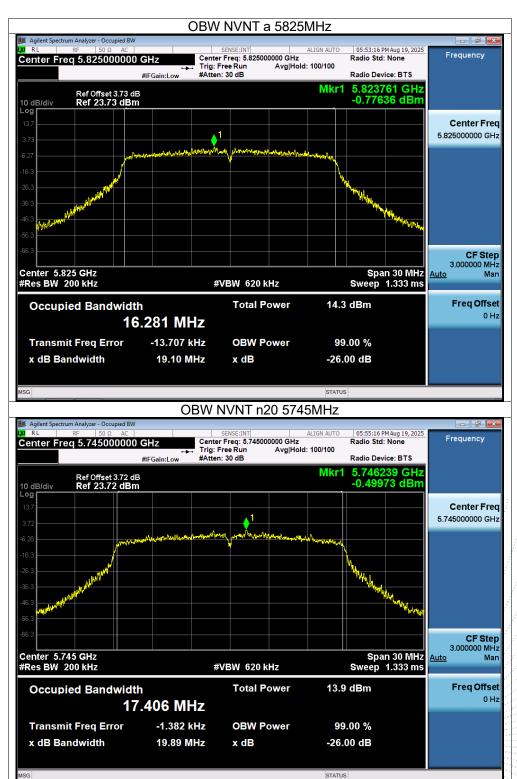


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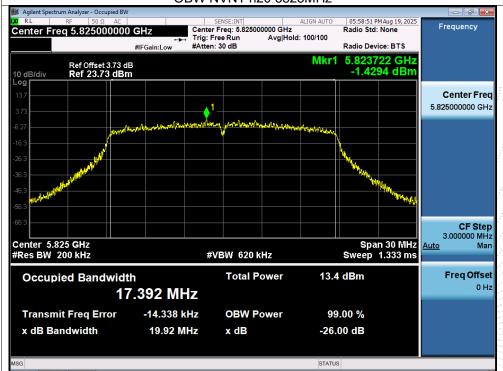




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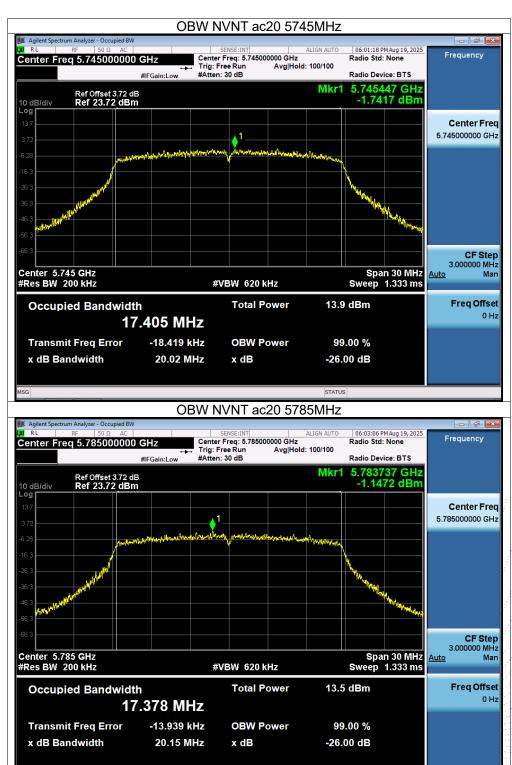






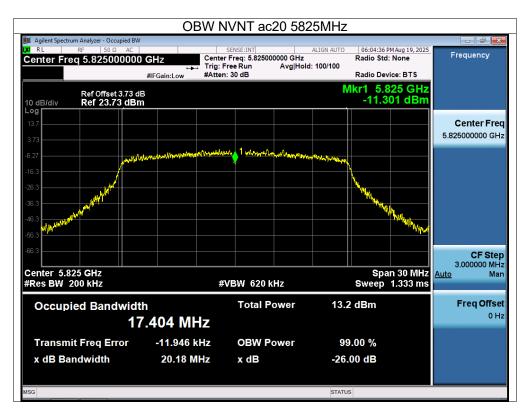
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10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup

POWER MET	ER
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10.2 Limit

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

10.3 Test procedure

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

- a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
- b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.
- 2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

- a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
 - The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
- (ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the

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transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

- (iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.
- b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
 - (ii) Set RBW = 1 MHz.
 - (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
 - (v) Sweep time = auto.
 - (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
 - (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

10.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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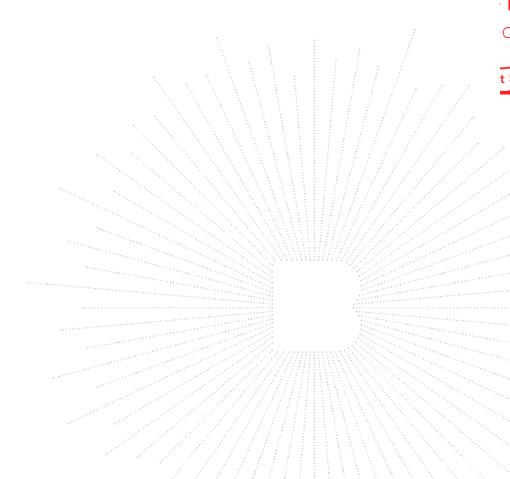
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10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	11.06	24	Pass
NVNT	а	5200	10.45	24	Pass
NVNT	а	5240	10.09	24	Pass
NVNT	n20	5180	9.78	24	Pass
NVNT	n20	5200	9.23	24	Pass
NVNT	n20	5240	9.11	24	Pass
NVNT	ac20	5180	9.93	24	Pass
NVNT	ac20	5200	10.22	24	Pass
NVNT	ac20	5240	11.04	24	Pass

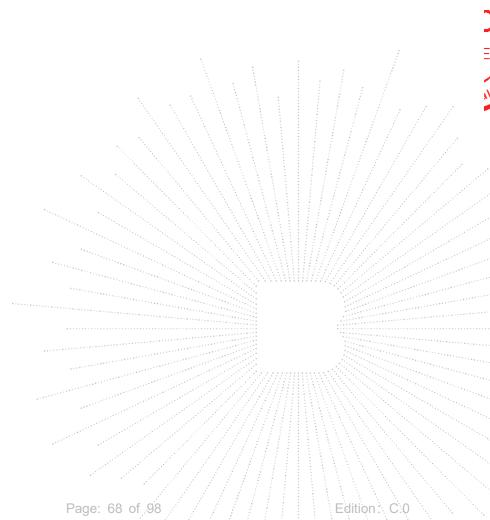


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Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure: 101KPa		Test Voltage:	DC 5V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)			Verdict
NVNT	а	5745	11.98	30	Pass
NVNT	а	5785	11.25	30	Pass
NVNT	а	5825	11.17	30	Pass
NVNT	n20	5745	10.85	30	Pass
NVNT	n20	5785	10.26	30	Pass
NVNT	n20	5825	10.20	30	Pass
NVNT	ac20	5745	10.45	30	Pass
NVNT	ac20	5785	9.95	30	Pass
NVNT	ac20	5825	10.00	30	Pass



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11. Out Of Band Emissions

11.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

11.2 Limit

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits: (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

11.3 Test procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

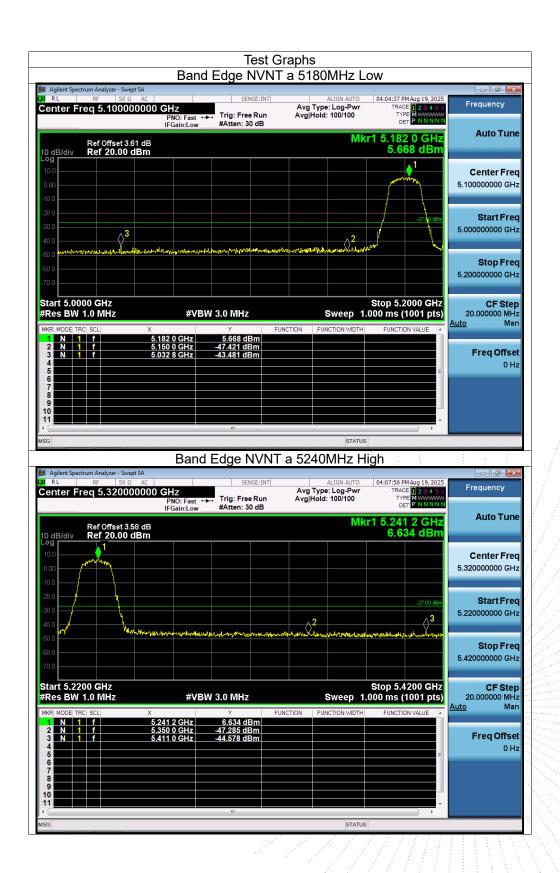
11.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data

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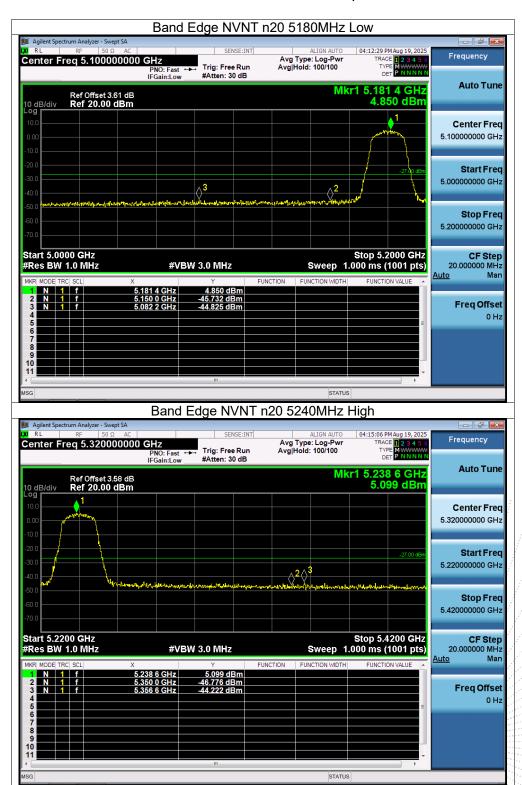


11.5 Test Result



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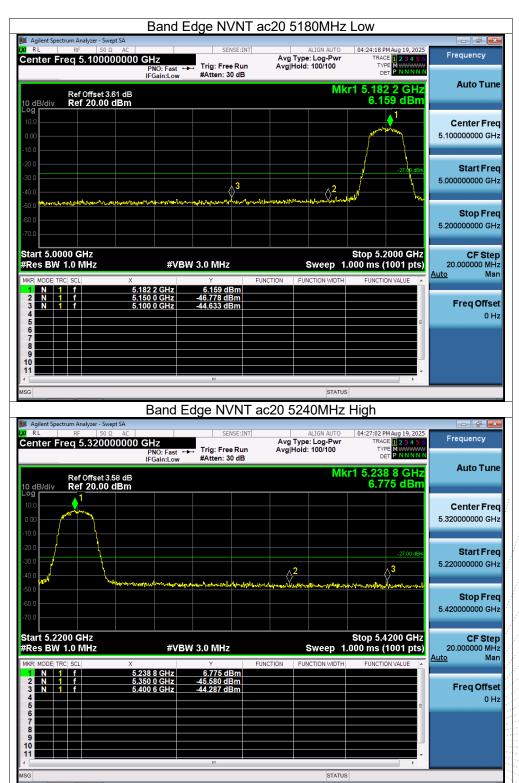




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12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits: (1)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2)For transmitters operating in the 5.725-5.85 GHz band(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

12.3 Test procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

12.4 Test Result

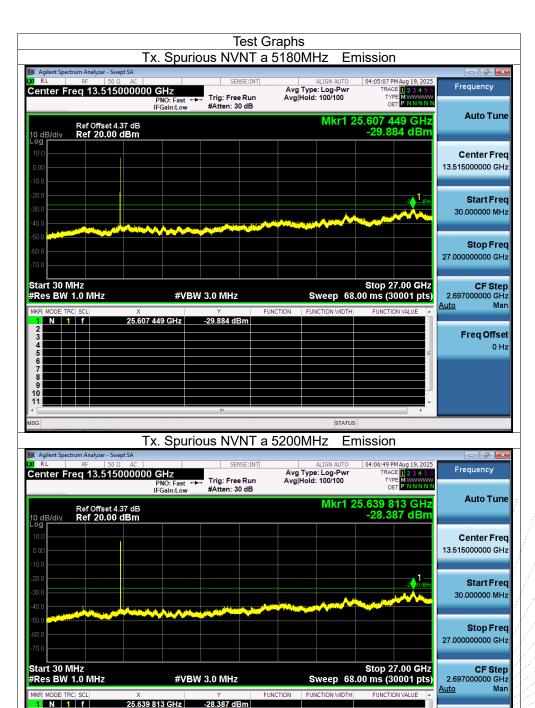
Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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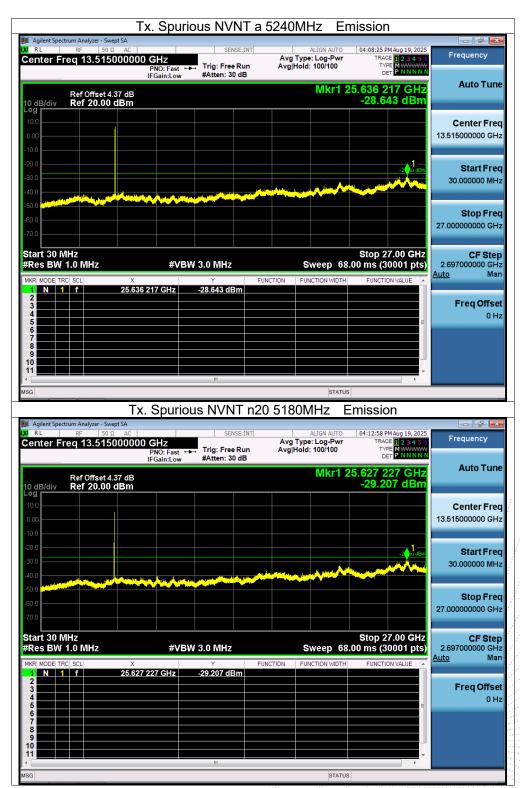
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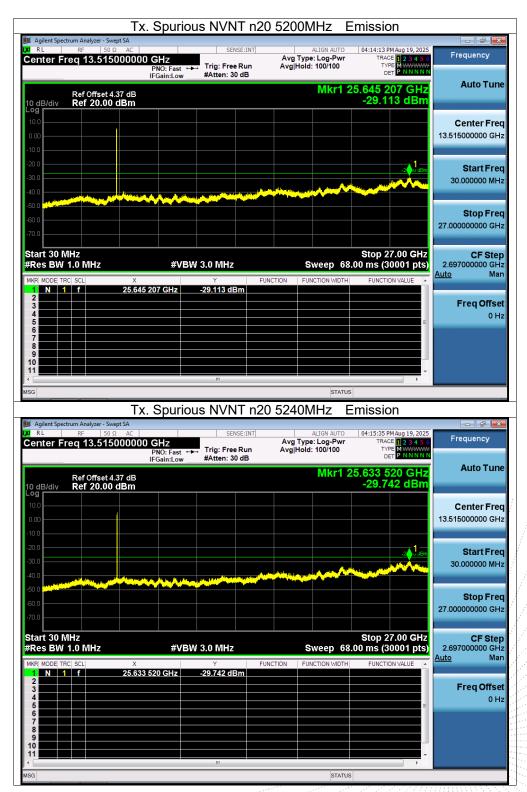


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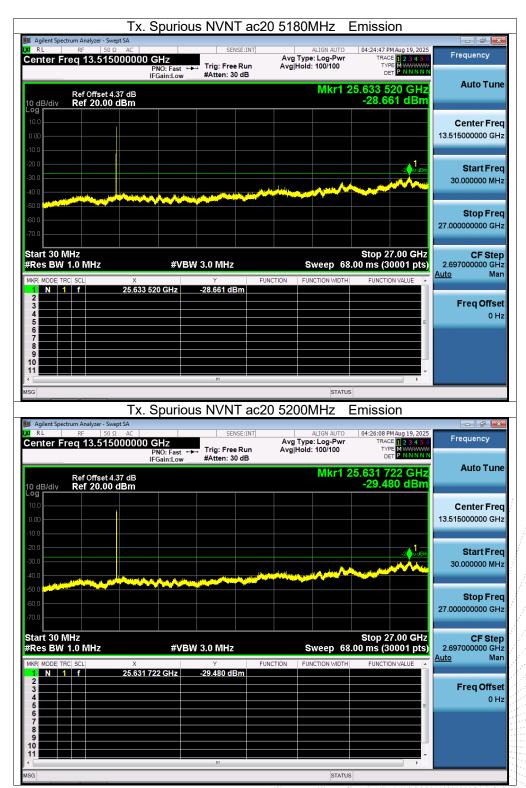
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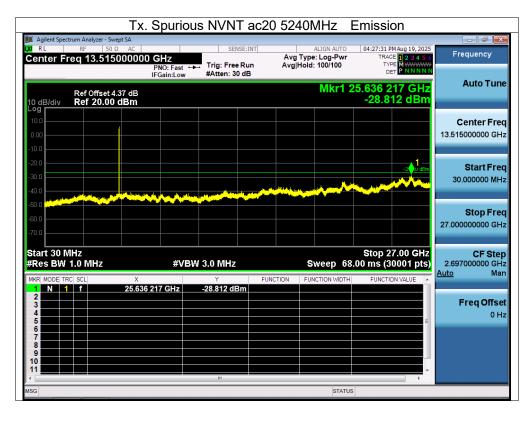




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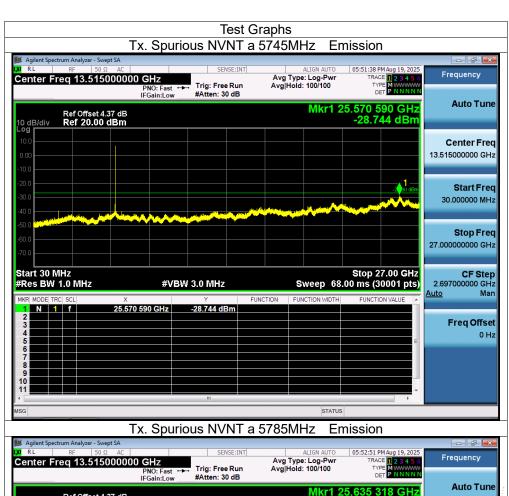


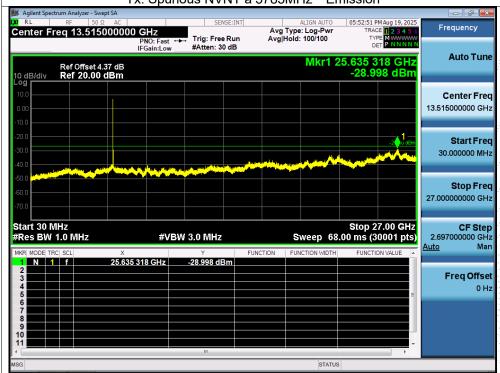






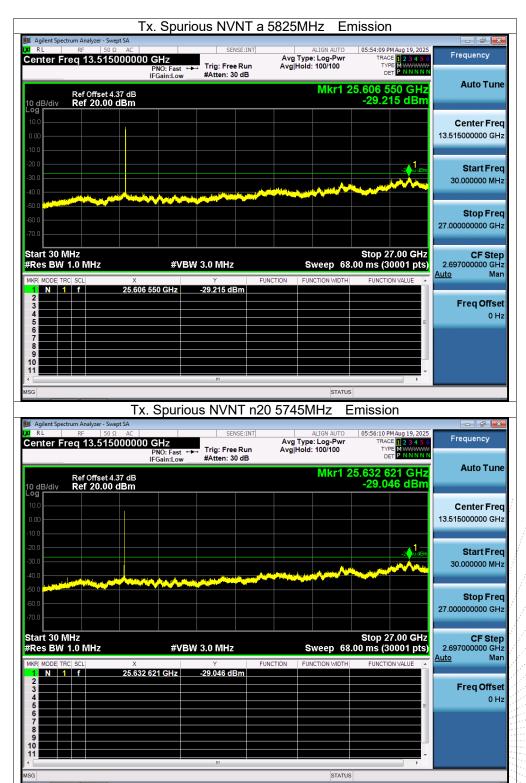






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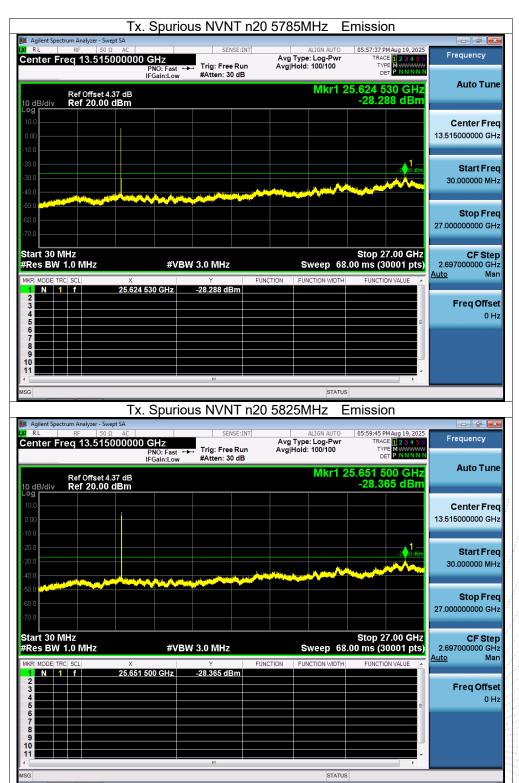




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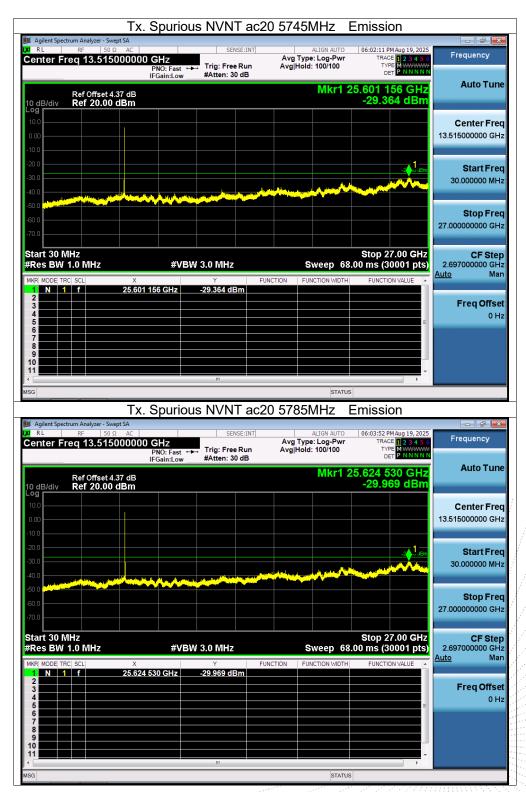


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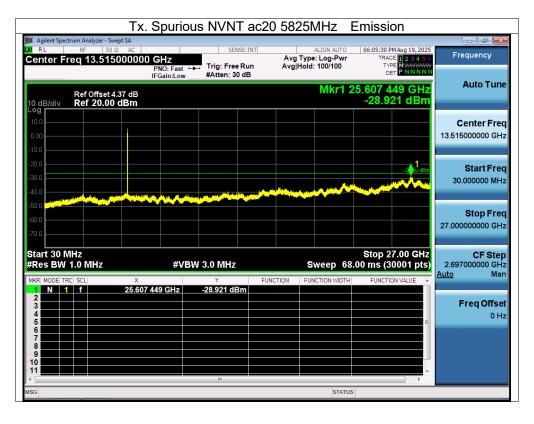
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13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual

The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

13.3 Test procedure

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. EUT have transmitted absence of modulation signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
- 5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 106$ ppm and he limit is less than ± 20 ppm (IEEE 802.11nspecification).
- 6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 7. Extreme temperature is -20°C~70°C.

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13.4 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH			
Pressure:	101KPa	Test Voltage:	DC 5V			
Test Mode:	TX (5.1G) Mode Frequency U-NII-1 (5180-5240MHz)					

Voltage vs. Frequency Stability

				Reference Frequency:5180MHz			
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
_		V nom (V)	120.00	5180.0069	5180	0.0069	1.3320
T nom (°C)	20	V max (V)	138.00	5180.0075	5180	0.0075	1.4479
(0)	V min (V) 102.00		102.00	5180.0121	5180	0.0121	2.3359
Limits			5150-5250 MHz				
Result			Complies				

Temperature vs. Frequency Stability

Reference Frequency:5180MHz									
				Ret	erence Freq	requericy:5 rouldinz			
TEST CONDITIONS			_	Max.	Max.				
				Ť	fc	Deviation (MHz)	Deviation (ppm)		
		T (°C)	-20	5180.0012	5180	0.0012	0.2317		
		T (°C)	-10	5180.0056	5180	0.0056	1.0811		
		T (°C)	0	5180.0090	5180	0.0090	1.7375		
		T (°C)	10	5180.0047	5180	0.0047	0.9073		
V nom (V)	120	T (°C)	20	5180.0089	5180	0.0089	1,7181		
v Holli (v)	120	T (°C)	30	5180.0087	5180	0.0087	1.6795		
		T (°C)	40	5180.0097	5180	0.0097	1.8726		
		T (°C)	50	5180.0081	5180	0.0081	1.5637		
		T (°C)	60	5180.0123	5180	0.0123	2.3745		
		T (°C)	70	5180.0076	5180	0.0076	1.4672		
	Limits			The same of the sa	5150-5	250 MHz			
Result				Con	nplies				

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Voltage vs. Frequency Stability

			Reference Frequency: 5200MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
_		V nom (V)	120.00	5200.0010	5200	0.0010	0.1923
T nom (°C)	20	V max (V)	138.00	5200.0075	5200	0.0075	1.4423
V min (V) 102.00		5200.0027	5200	0.0027	0.5192		
Limits			5725-5850 MHz				
Result				С	omplies		

Temperature vs. Frequency Stability

remperature		'		Reference Frequency: 5200MHz				
Т	TEST C	ONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5200.0061	5200	0.0061	1.1731	
		T (°C)	-10	5200.0053	5200	0.0053	1.0192	
		T (°C)	0	5200.0020	5200	0.0020	0.3846	
		T (°C)	10	5200.0042	5200	0.0042	0.8077	
V nom (V)	120	T (°C)	20	5200.0082	5200	0.0082	1.5769	
v Holli (v)	120	T (°C)	30	5200.0091	5200	0.0091	1.7500	
		T (°C)	40	5200.0052	5200	0.0052	1.0000	
		T (°C)	50	5200.0067	5200	0.0067	1.2885	
		T (°C)	60	5200.0056	5200	0.0056	1.0769	
		T (°C)	70	5200.0040	5200	0.0040	0.7692	
	Limits				5150-	5250 MHz		
	Result				Co	mplies	7777	

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Voltage vs. Frequency Stability

				Reference Frequency: 5240MHz				
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
_		V nom (V)	120.00	5240.0002	5240	0.0002	0.0382	
T nom (°C)	20	V max (V)	138.00	5240.0045	5240	0.0045	0.8588	
(0)		V min (V)	102.00	5240.0111	5240	0.0111	2.1183	
Limits				5150-5250 MHz				
Result				Complies				

Temperature vs. Frequency Stability

Temperature vs. Frequency Stability									
				Reference Frequency: 5240MHz					
7	TEST C	ONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
		T (°C)	-20	5240.0001	5240	0.0001	0.0191		
		T (°C)	-10	5240.0099	5240	0.0099	1.8893		
		T (°C)	0	5240.0064	5240	0.0064	1.2214		
		T (°C)	10	5240.0024	5240	0.0024	0.4580		
V nom (V)	120	T (°C)	20	5240.0050	5240	0.0050	0.9542		
V HOIH (V)	120	T (°C)	30	5240.0116	5240	0.0116	2.2137		
		T (°C)	40	5240.0087	5240	0.0087	1.6603		
		T (°C)	50	5240.0037	5240	0.0037	0.7061		
		T (°C)	60	5240.0112	5240	0.0112	2.1374		
		T (°C)	70	5240.0046	5240	0.0046	0.8779		
	Limits				5150-5250 MHz				
Result				Complies					

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Temperature:	26 ℃	Relative Humidity:	54%RH			
Pressure:	101KPa	Test Voltage:	DC 5V			
Test Mode:	TX (5.8G) Mode Frequency U-NII-3 (5745-5825MHz)					

Voltage vs. Frequency Stabilit

	•	doney clasmi		Reference Frequency: 5745MHz					
	TES	ST CONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
_		V nom (V)	120.00	5745.0108	5745	0.0108	1.8799		
T nom (°C)	20	V max (V)	138.00	5745.0065	5745	0.0065	1.1314		
(0)				V min (V)	102.00	5745.0045	5745	0.0045	0.7833
		Limits		5725-5850 MHz					
Result				Complies					

Temperature vs. Frequency Stability

'		quericy otabl	··· <i>,</i>	Refe	rence Frequ	uency:5745Ml	Ηz
T	EST C	ONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5745.0105	5745	0.0105	1.8277
	120	T (°C)	-10	5745.0033	, 5745	0.0033	0.5744
		T (°C)	0	5745.0087	5745	0.0087	1.5144
		T (°C)	10	5745.0085	5745	0.0085	1.4795
V nom (V)		T (°C)	20	5745.0006	5745	0.0006	0.1044
v nom (v)		T (°C)	30	5745.0053	5745	0.0053	0.9225
		T (°C)	40	5745.0030	5745	0.0030	0.5222
		T (°C)	50	5745.0015	5745	0.0015	0.2611
		T (°C)	60	5745.0128	5745	0.0128	2.2280
		T (°C)	70-7	5745.0089	5745	0.0089	1.5492
	l	_imits	144.		5725-58	50 MHz	
	F	Result	***************************************		Com	plies	

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Voltage vs. Frequency Stability

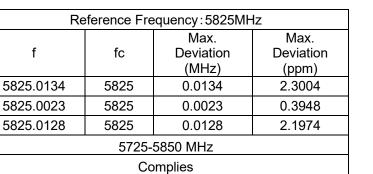
	-	-		Reference Frequency: 5785MHz											
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)								
_		V nom (V)	120.00	5785.0113	5785	0.0113	1.9533								
T nom (°C)	20	V max (V)	138.00	5785.0068	5785	0.0068	1.1755								
(0)										V min (V)	102.00	5785.0050	5785	0.0050	0.8643
	Limits				5725-5850 MHz										
	Result				Complies										

Temperature vs. Frequency Stability

'	VS. FIE	•		Reference Frequency: 5785MHz				
ד	TEST C	ONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5785.0062	5785	0.0062	1.0717	
		T (°C)	-10	5785.0001	5785	0.0001	0.0173	
		T (°C)	0	5785.0039	5785	0.0039	0.6742	
		T (°C)	10	5785.0055	5785	0.0055	0.9507	
V nom (V)	120	T (°C)	20	5785.0105	5785	0.0105	1.8150	
v nom (v)	120	T (°C)	30	5785.0111	5785	0.0111	1.9188	
		T (°C)	40	5785.0028	5785	0.0028	0.4840	
		T (°C)	50	5785.0123	5785	0.0123	2.1262	
		T (°C)	60	5785.0032	5785	0.0032	0.5532	
		T (°C)	70	5785.0005	5785	0.0005	0.0864	
	Limits				5725-	5850 MHz	//////	
	Result				Co	mplies	7777	

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BCTC

Voltage vs. Frequency Stability

20

T nom

(°C)

TEST CONDITIONS

V nom (V)

V max (V)

V min (V)

Limits

Result

120.00

138.00

102.00

Temperature vs. Frequency Stability

T (°C)	-20 -10	f 5825.0036	fc 5825	equency:5825MF Max. Deviation (MHz)	dz Max. Deviation (ppm)
T (°C)	-20	-		Deviation (MHz)	Deviation
T (°C)		5825.0036	5825	0.0000	
	10		3023	0.0036	0.6180
T (0.0)	-10	5825.0078	5825	0.0078	1.3391
T (°C)	0	5825.0067	5825	0.0067	1.1502
T (°C)	10	5825.0006	5825	0.0006	0.1030
T (°C)	20	5825.0063	5825	0.0063	1.0815
T (°C)	30	5825.0071	5825	0.0071	1.2189
T (°C)	40	5825.0037	5825	0.0037	0.6352
T (°C)	50	5825.0085	5825	0.0085	1.4592
T (°C)	60	5825.0048	5825	0.0048	0.8240
T (°C)	70	5825.0039	5825	0.0039	0.6695
Limits		1 1	5725-	5850 MHz	77,7
Result			Complies		
	T (°C) Limits	T (°C) 10 T (°C) 20 T (°C) 30 T (°C) 40 T (°C) 50 T (°C) 60 T (°C) 70 Limits	T (°C) 10 5825.0006 T (°C) 20 5825.0063 T (°C) 30 5825.0071 T (°C) 40 5825.0037 T (°C) 50 5825.0085 T (°C) 60 5825.0048 T (°C) 70 5825.0039 Limits	T (°C) 10 5825.0006 5825 T (°C) 20 5825.0063 5825 T (°C) 30 5825.0071 5825 T (°C) 40 5825.0037 5825 T (°C) 50 5825.0085 5825 T (°C) 60 5825.0048 5825 T (°C) 70 5825.0039 5825 Limits 5725-	T (°C) 10 5825.0006 5825 0.0006 T (°C) 20 5825.0063 5825 0.0063 T (°C) 30 5825.0071 5825 0.0071 T (°C) 40 5825.0037 5825 0.0037 T (°C) 50 5825.0085 5825 0.0085 T (°C) 60 5825.0048 5825 0.0048 T (°C) 70 5825.0039 5825 0.0039 Limits 5725-5850 MHz

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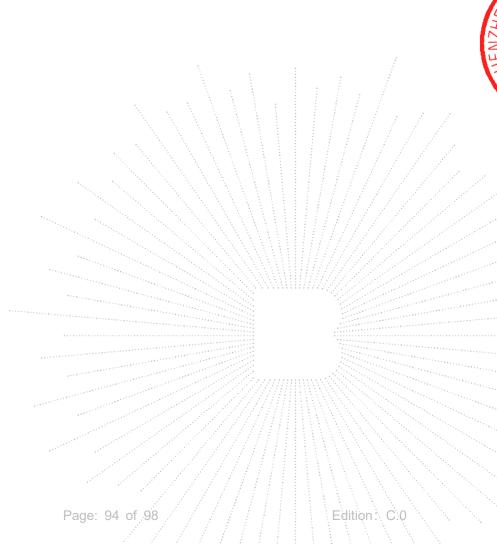
14. Antenna Requirement

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 Antenna

The EUT antenna is Internal antenna. It comply with the standard requirement.

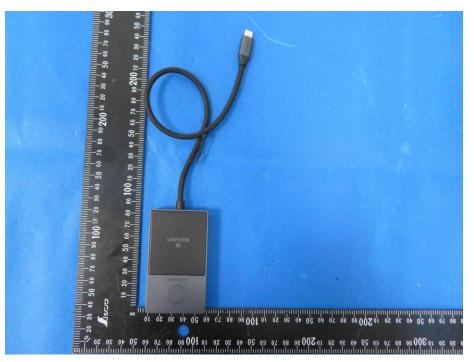


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15. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details (CM737 TX _External & Internal Photos)

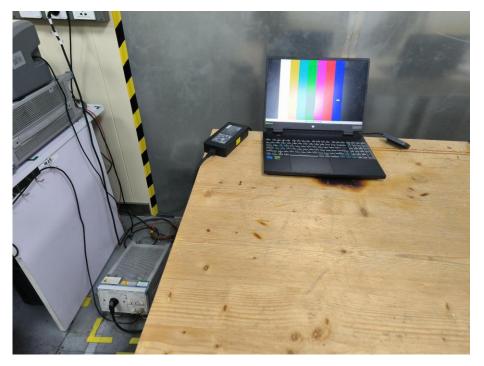
AF

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16. EUT Test Setup Photographs

Conducted Measurement Photo



Radiated Measurement Photos



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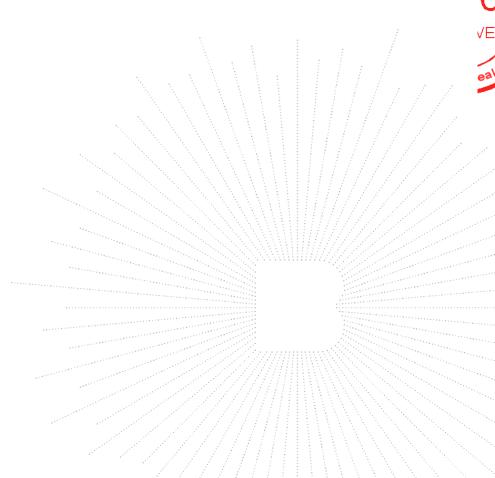
C 7

Dort



Spurious emissions





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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.

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**** END ****

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