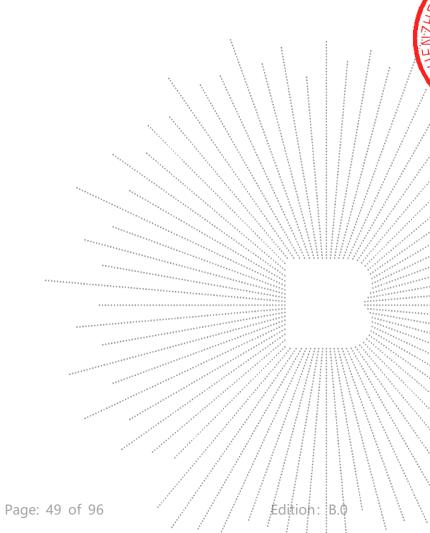


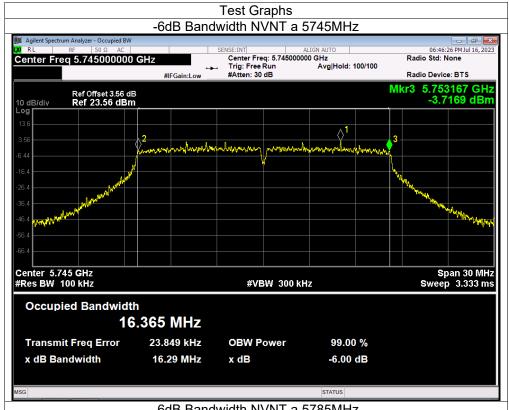
Temperature :	26 ℃	Relative Humidity :	54%	
Pressure :	101kPa	LIEST VOITAGE :	AC 120V/60Hz form adapter to AC 24V output	
Test Mode :	TX Frequency U-NII-3(5745-5825MHz)			

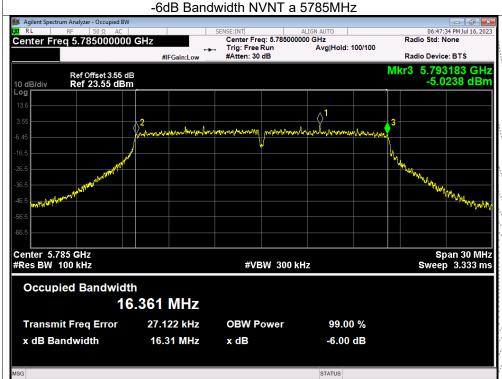
Condition	Mode	Frequency (MHz)	99% bandwidth(MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth MHz	Result
NVNT	а	5745	16.426	16.285	≥500	Pass
NVNT	а	5785	16.425	16.312	≥500	Pass
NVNT	а	5825	16.433	16.038	≥500	Pass
NVNT	n20	5745	17.594	16.927	≥500	Pass
NVNT	n20	5785	17.555	16.505	≥500	Pass
NVNT	n20	5825	17.554	17.156	≥500	Pass
NVNT	n40	5755	35.756	35.06	≥500	Pass
NVNT	n40	5795	35.742	35.026	≥500	Pass



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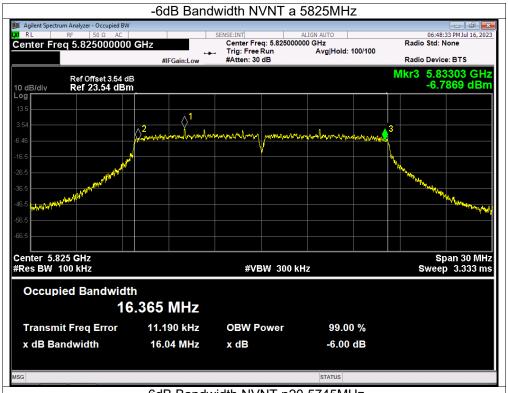


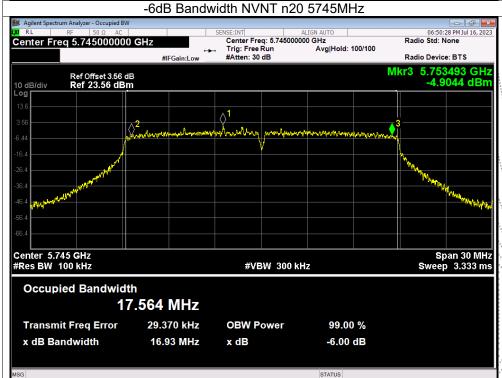




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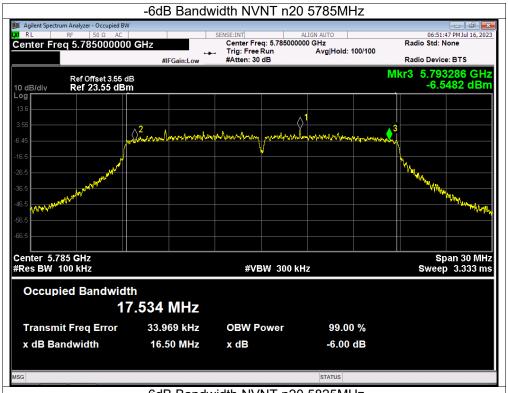


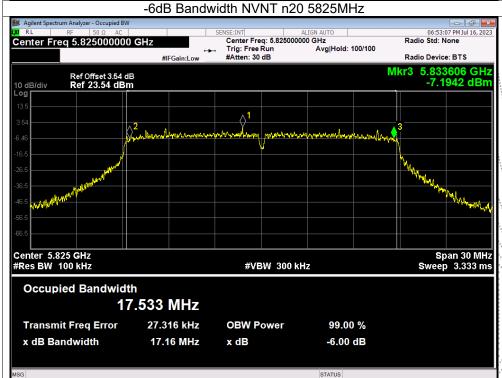




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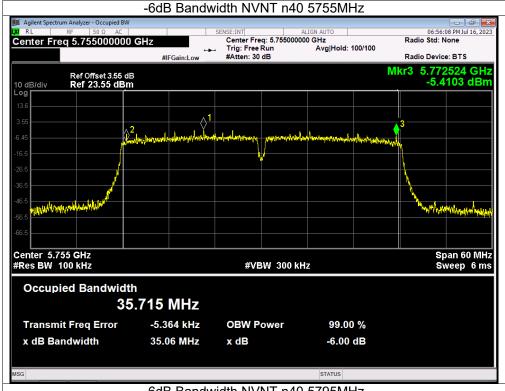


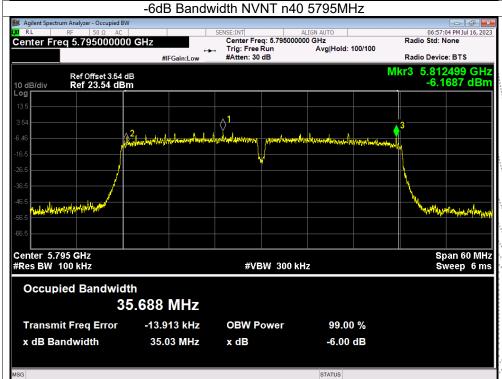




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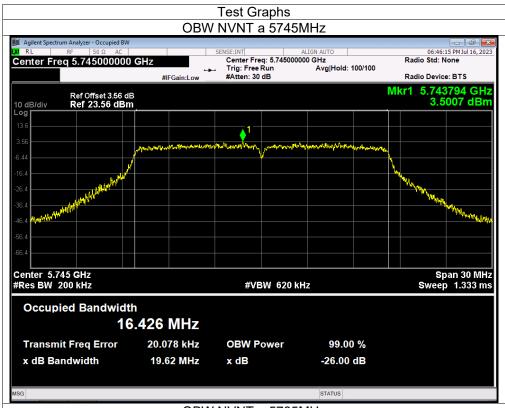


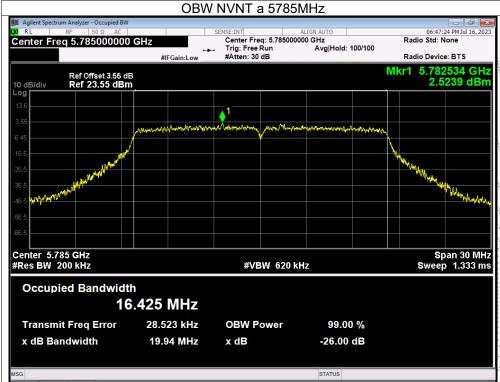




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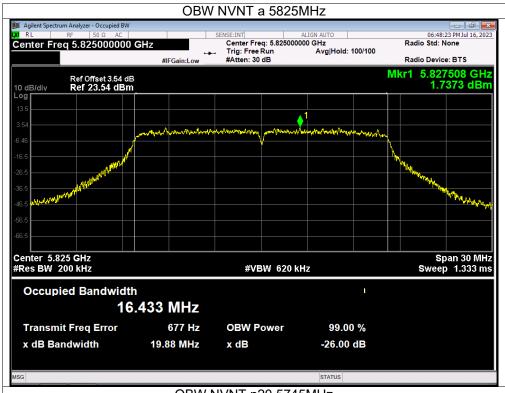


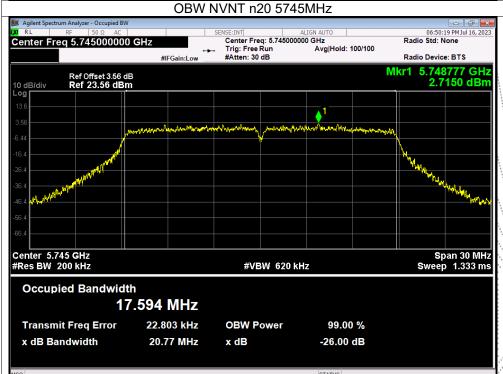




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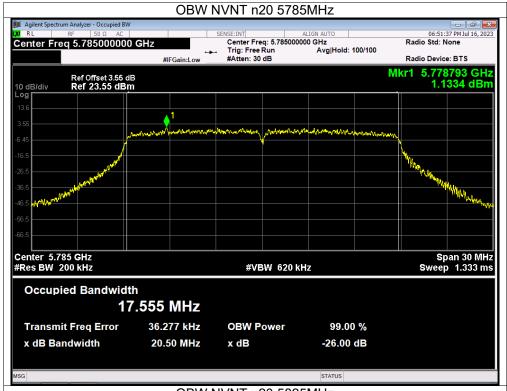


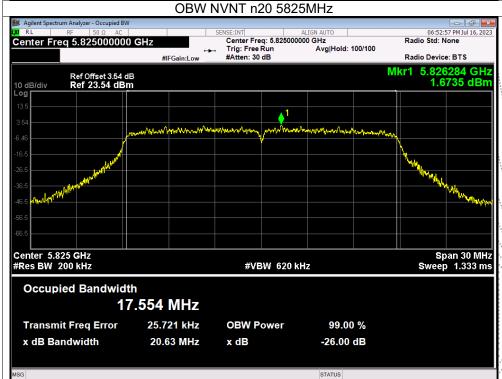




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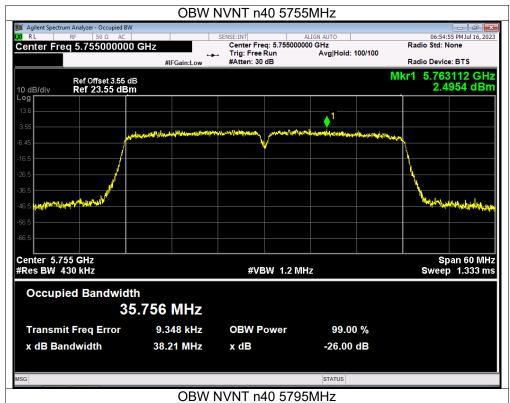


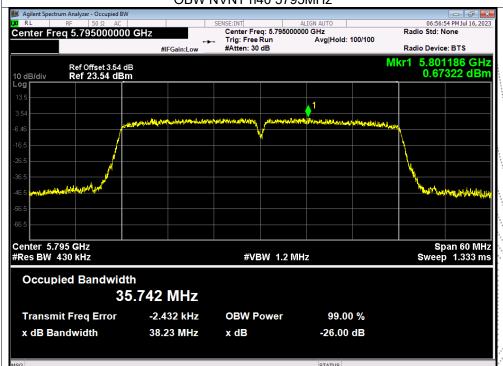




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10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

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.

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- (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 transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than \pm 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 ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is ≤ 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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10.5 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	HEST MOITAGE .	AC 120V/60Hz form adapter to AC 24V output
Test Mode :	TX (5.1G) Mode Frequency U-NII-1 (5180-5240MHz)		

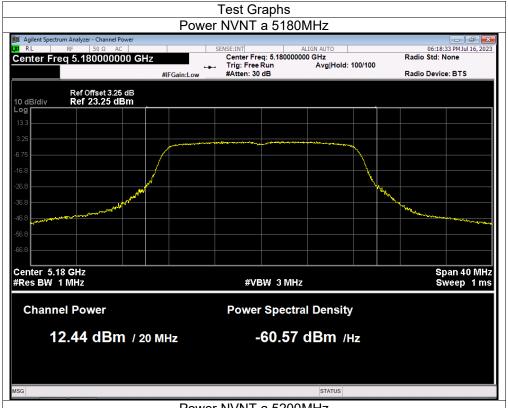
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	12.44	24	Pass
NVNT	а	5200	12.48	24	Pass
NVNT	а	5240	12.16	24	Pass
NVNT	n20	5180	11.65	24	Pass
NVNT	n20	5200	12.17	24	Pass
NVNT	n20	5240	11.67	24	Pass
NVNT	n40	5190	10.19	24	Pass
NVNT	n40	5230	10.47	24	Pass

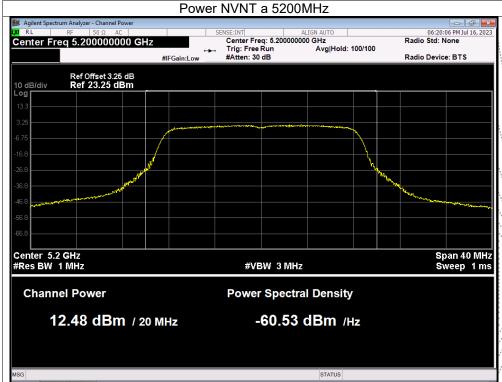
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	LIEST MOITAGE .	AC 120V/60Hz form adapter to AC 24V output
Test Mode :	TX (5.8G) Mode Frequency U-NII-	\ , ,	

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5745	13.54	30	Pass
NVNT	а	5785	12.39	30	Pass
NVNT	а	5825	12.45	30	Pass
NVNT	n20	5745	12.64	30	Pass
NVNT	n20	5785	11.54	30	Pass
NVNT	n20	5825	11.54	30	Pass
NVNT	n40	5755	11.69	30	Pass
NVNT	n40	5795	10.77	30	Pass

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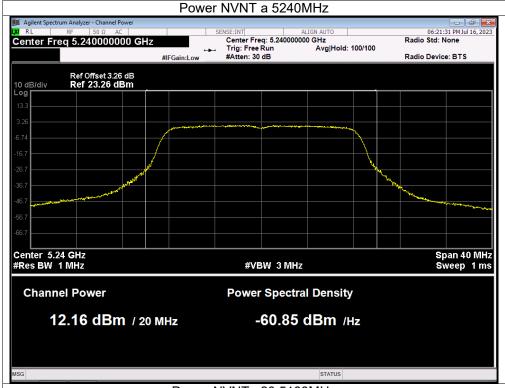






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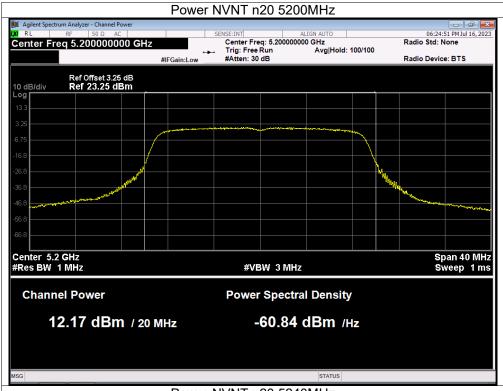


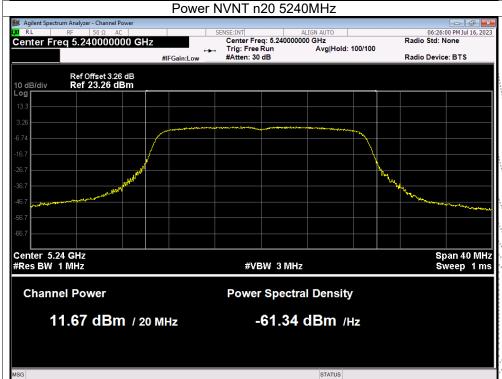




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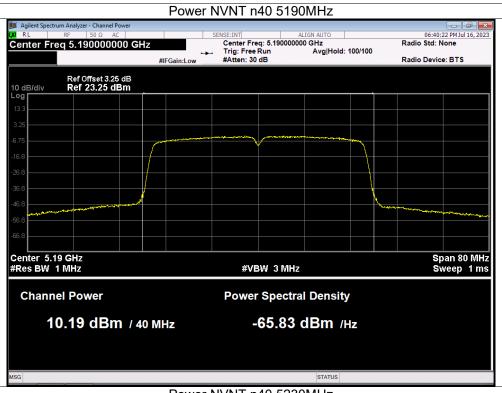






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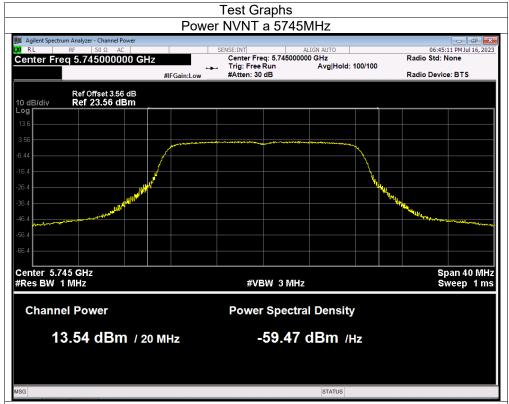






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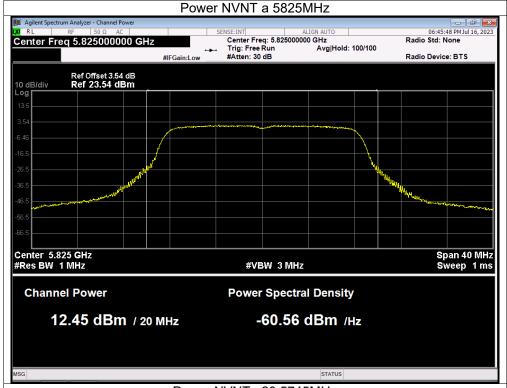


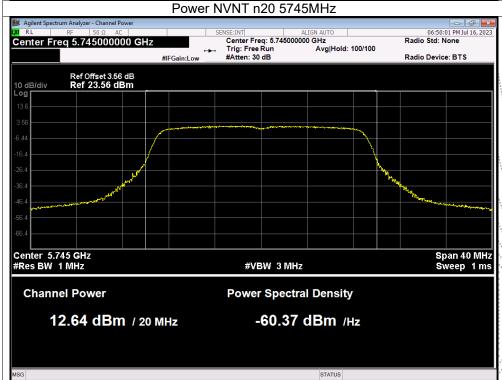




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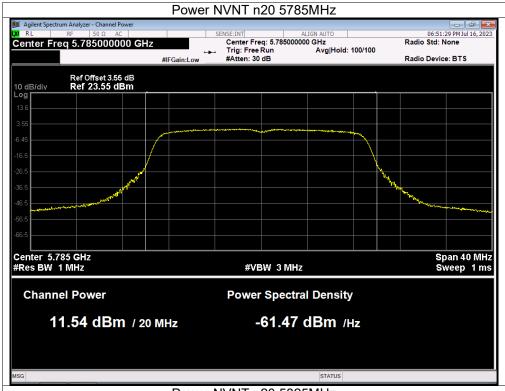


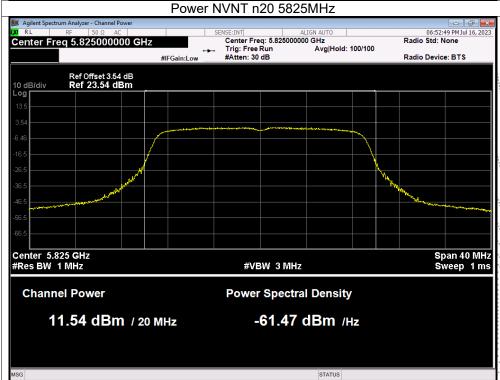




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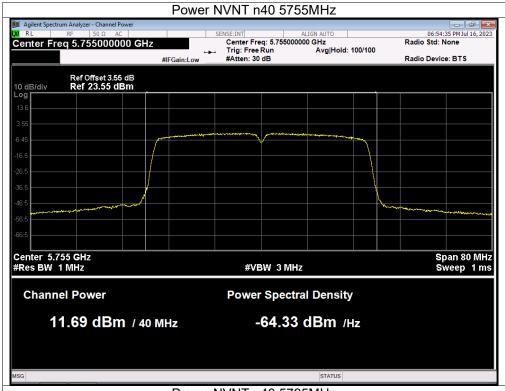


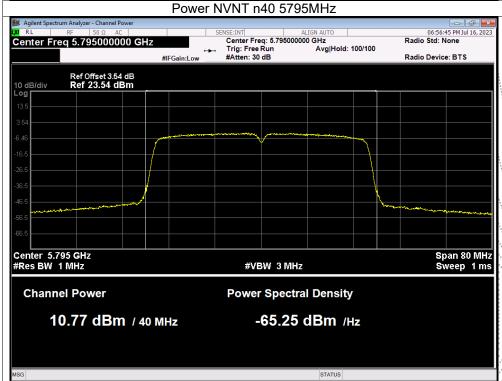




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11. Out Of Band Emissions

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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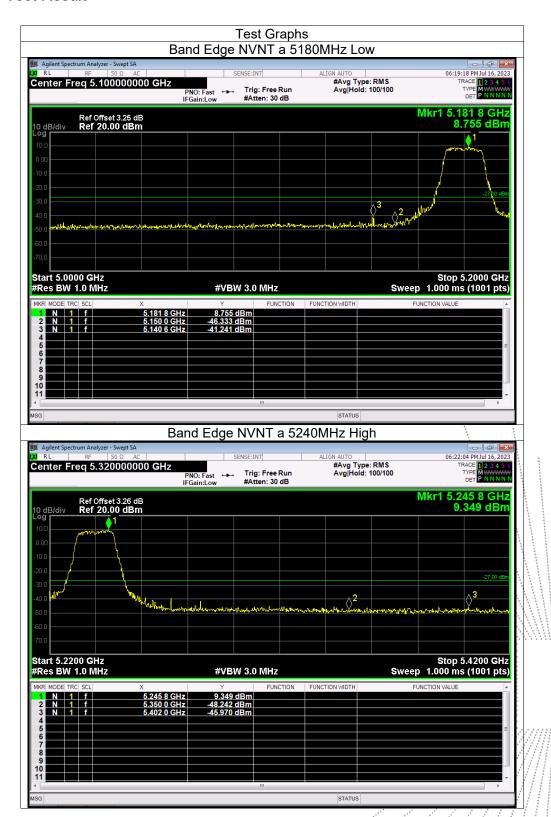
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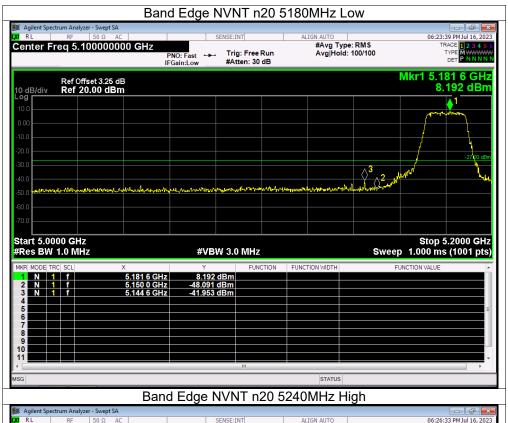


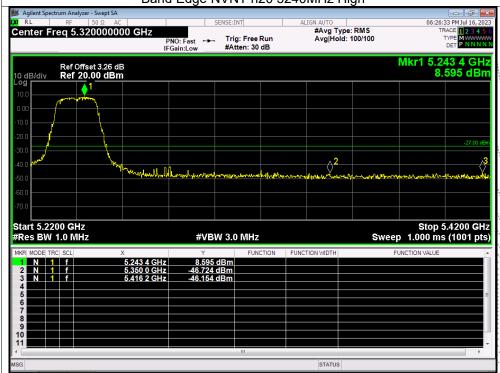
11.5 Test Result



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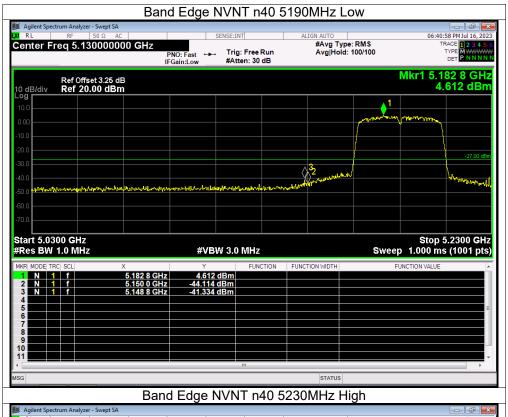


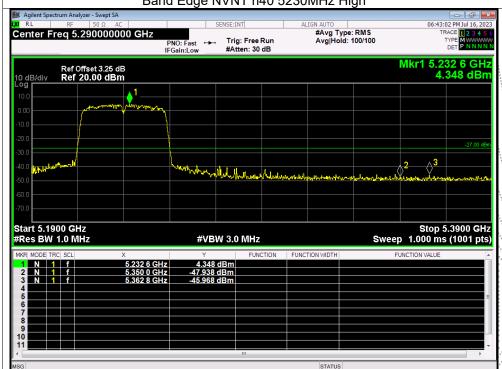




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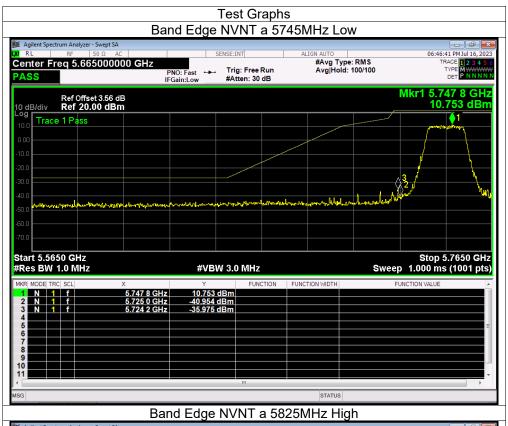


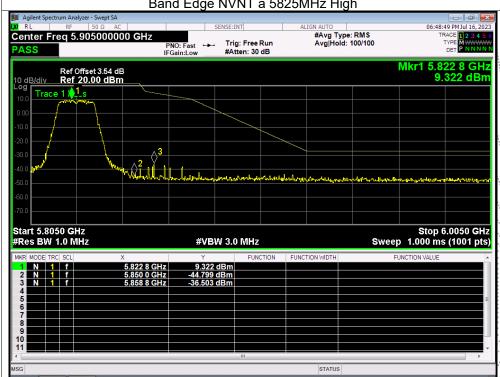




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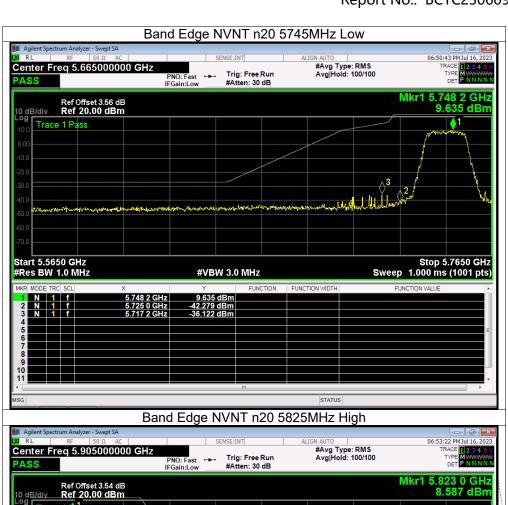


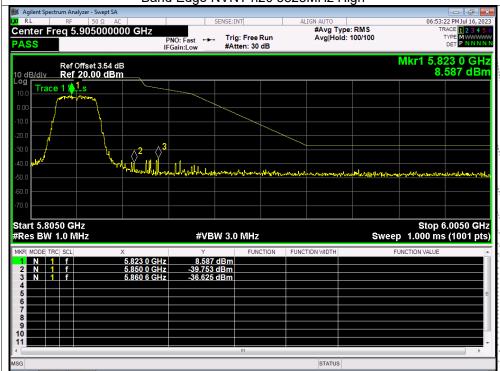




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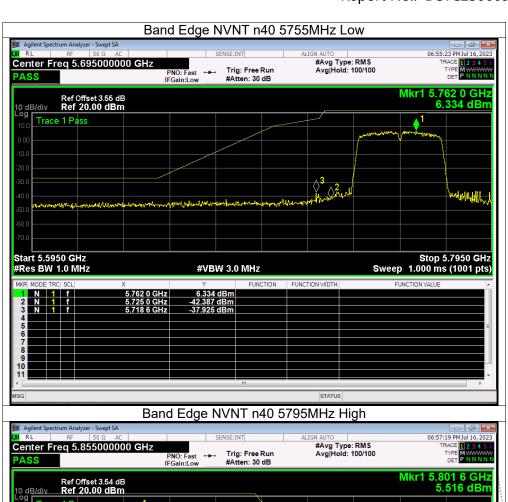


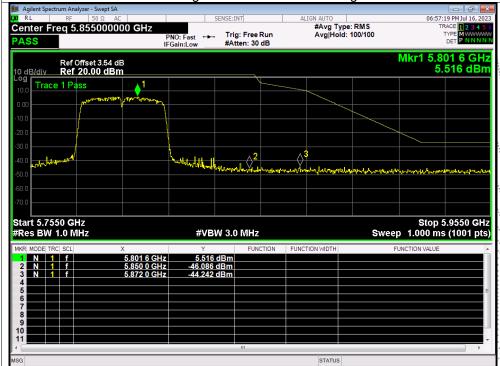




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12. Spurious RF Conducted Emissions

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.

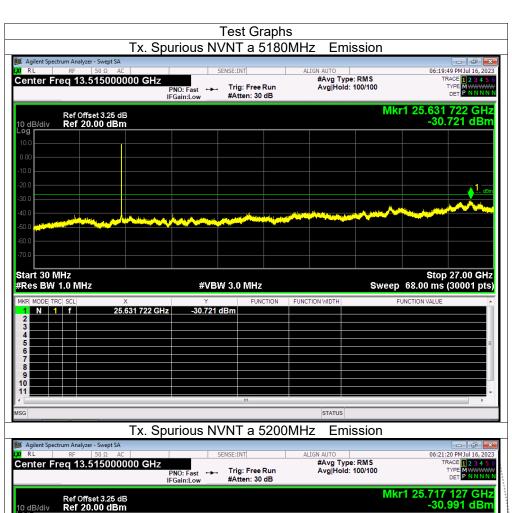
12.4 Test Result

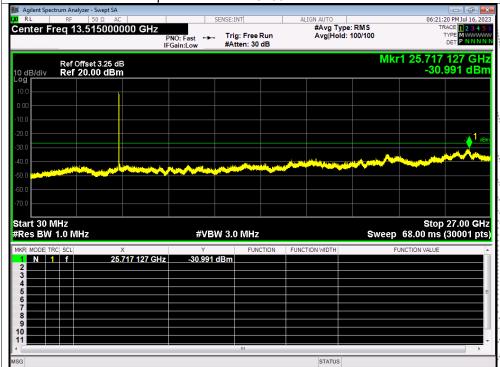
Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

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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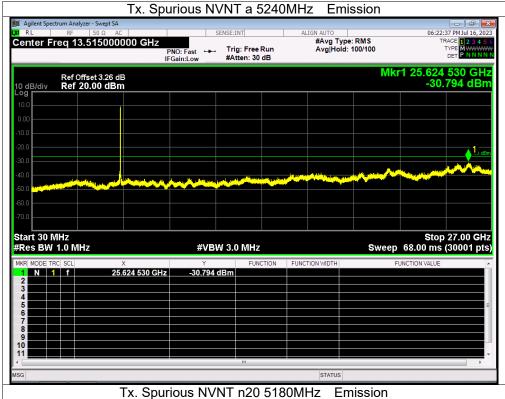


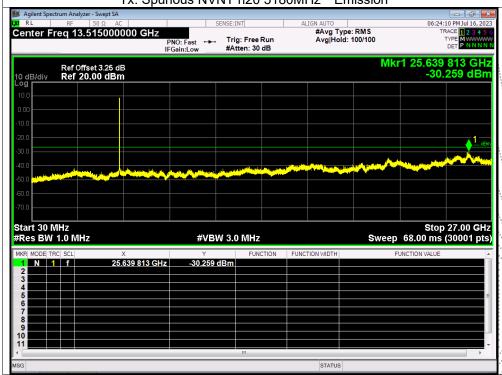




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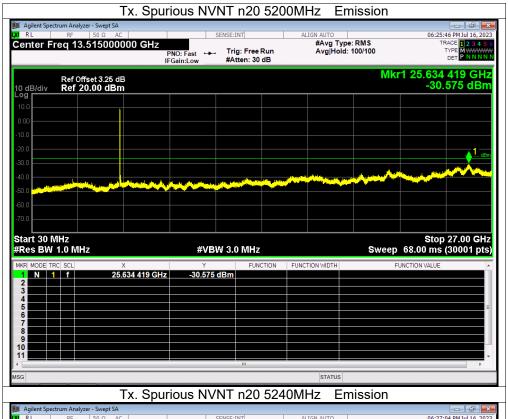


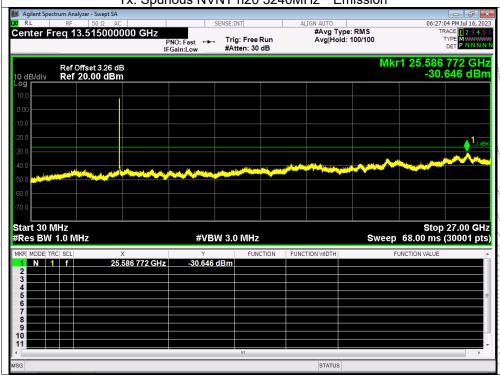




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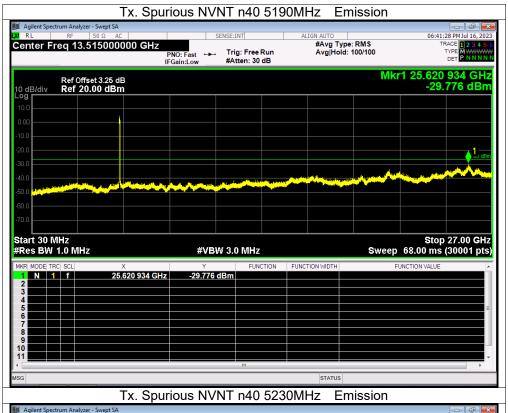


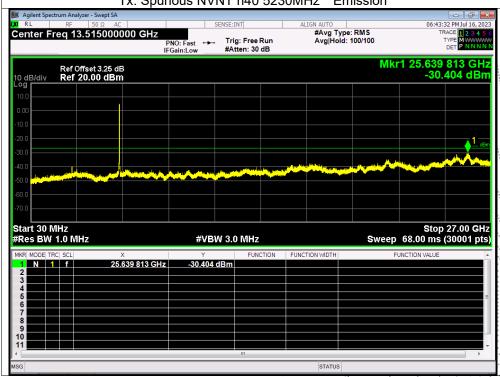




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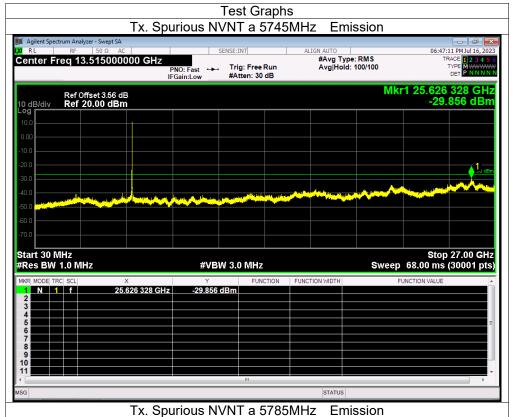


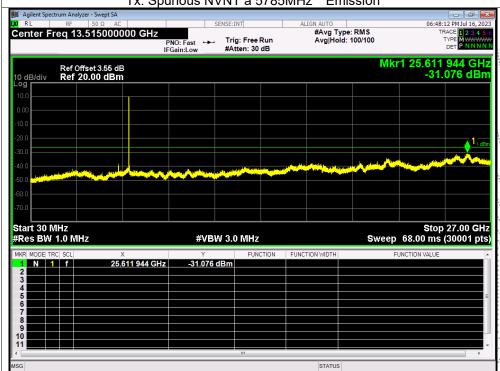




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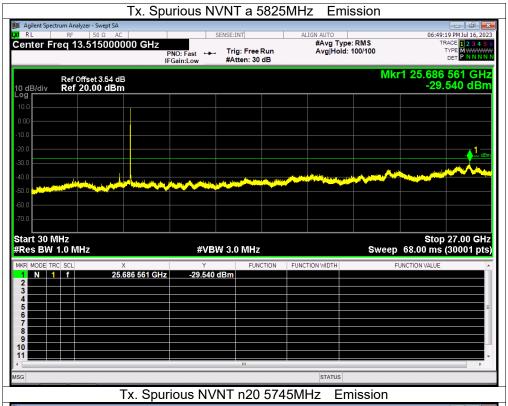


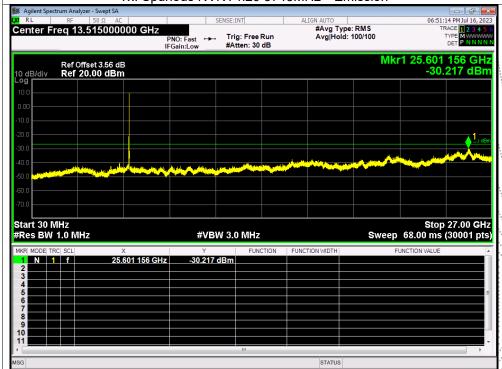




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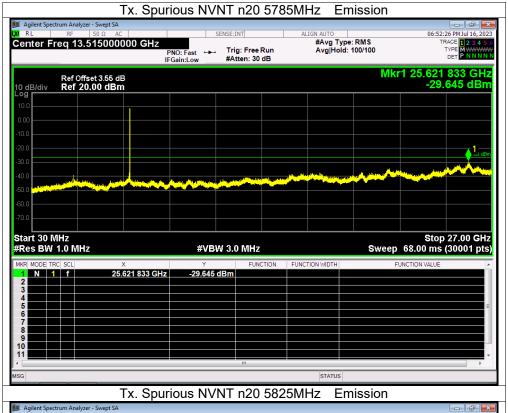


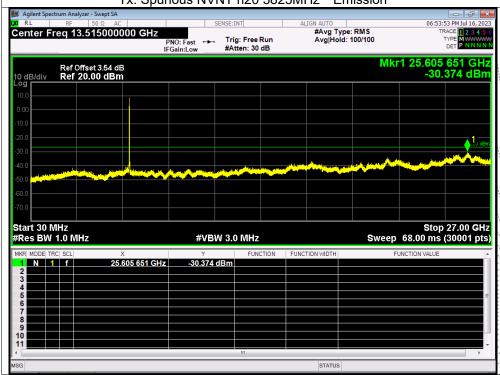




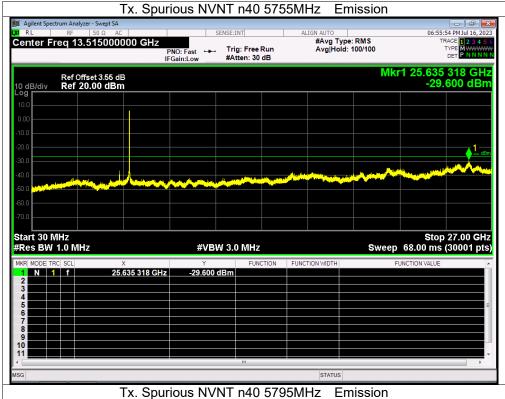
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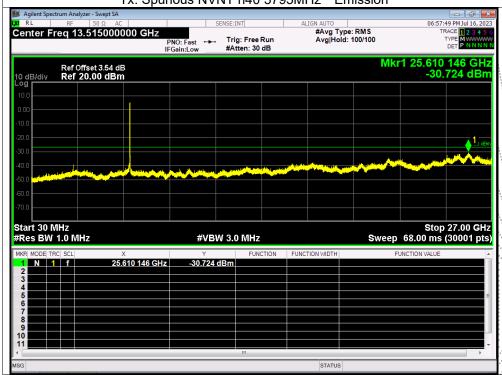






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13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

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 × 106 ppm and he limit is less than ±20ppm (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%				
Pressure :	101kPa	HEST MOITAGE .	AC 120V/60Hz form adapter to AC 24V output				
Test Mode :	TX 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)	AC 120	5180.0201	5180	0.0201	3.8874	
T nom (°C)	20	V max (V)	AC 138	5180.0091	5180	0.0091	1.7554	
(0)		V min (V)	AC 102	5180.0003	5180	0.0003	0.0615	
	Limits			5150-5250 MHz				
Result			Complies					

Temperature vs. Frequency Stability

					Refe	erence Frequency: 518	B0MHz
ТІ	TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5180.0079	5180	0.0079	1.5178
		T (°C)	-10	5180.0013	5180	0.0013	0.2569
		T (°C)	0	5180.0054	5180	0.0054	1.0394
	AC 120	T (°C)	10	5180.0094	5180	0.0094	1.8106
V nom		T (°C)	20	5180.0073	5180	0.0073	1.4126
(V)		T (°C)	30	5180.0055	5180	0.0055	1.0675
		T (°C)	40	5180.0013	5180	0.0013	0.2571
		T (°C)	50	5180.0050	5180	0.0050	0.9686
		T (°C)	60	5180.0017	5180	0.0017	0.3269
		T (°C)	70	5180.0067	5180	0.0067	1.2988
	Limits			5150-5250.MHz			
	Resu	lt		Complies			

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Voltage vs. Frequency Stability

				Reference Frequency: 5200MHz			
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
_		V nom (V)	AC 120	5200.0134	5200	0.0134	2.5674
T nom (°C)	20	V max (V)	AC 138	5200.0089	5200	0.0089	1.7092
(0)		V min (V)	AC 102	5200.0108	5200	0.0108	2.0728
	Limits			5725-5850 MHz			
	Result			Complies			

Temperature vs. Frequency Stability

					Refer	ence Frequency: 520	0MHz	
TE	TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5200.00917	5200	0.00917	1.7641	
		T (°C)	-10	5200.00804	5200	0.00804	1.5467	
		T (°C)	0	5200.00222	5200	0.00222	0.4264	
		T (°C)	10	5200.00283	5200	0.00283	0.5437	
V nom	AC 120	T (°C)	20	5200.01224	5200	0.01224	2.3540	
(V)	AC 120	T (°C)	30	5200.01072	5200	0.01072	2.0624	
		T (°C)	40	5200.00783	5200	0.00783	1.5058	
		T (°C)	50	5200.01184	5200	0.01184	2.2767	
		T (°C)	60	5200.00878	5200	0.00878	1.6881	
		T (°C)	70	5200.00294	5200	0.00294	0.5660	
	Limits			5150-5250 MHz				
	Resu	ılt			Complies			

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Voltage vs. Frequency Stability

				Reference Frequency: 5240MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
_		V nom (V)	AC 120	5240.0025	5240	0.0025	0.4859	
T nom	20	0 V max (V)	AC 138	5240.0001	5240	0.0001	0.0238	
(0)		V min (V)	AC 102	5240.0080	5240	0.0080	1.5323	
	Limits			5150-5250 MHz				
	Result			Complies				

Temperature vs. Frequency Stability

					Refe	erence Frequency: 524	10MHz
TE	TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5240.0025	5240	0.0025	0.4751
		T (°C)	-10	5240.0109	5240	0.0109	2.0824
		T (°C)	0	5240.0105	5240	0.0105	2.0077
		T (°C)	10	5240.0046	5240	0.0046	0.8753
V nom	AC 120	T (°C)	20	5240.0101	5240	0.0101	1.9292
(V)	AC 120	T (°C)	30	5240.0126	5240	0.0126	2.3999
		T (°C)	40	5240.0058	5240	0.0058	1.1003
		T (°C)	50	5240.0064	5240	0.0064	1.2261
		T (°C)	60	5240.0127	5240	0.0127	2.4271
		T (°C)	70	5240.0019	5240	0.0019	0.3647
	Limits			5150-5250 MHz			
	Resu	ılt		Complies			

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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	rresi vollage .	AC 120V/60Hz form adapter to AC 24V output
Hzst Mode :	TX Frequency(5745-5825MHz)		

Voltage vs. Frequency Stabilit

					Reference Frequency: 5745MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)			
T		V nom (V)	AC 120	5745.00458	5745	0.00458	0.7980		
T nom (°C)	20	V max (V)	AC 138	5745.00094	5745	0.00094	0.1645		
(0)		V min (V)	AC 102	5745.01059	5745	0.01059	1.8427		
	Limits			5725-5850 MHz					
	Result			Complies					

Temperature vs. Frequency Stability

					Refe	rence Frequency: 574	5MHz
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5745.00880	5745	0.00880	1.5324
		T (°C)	-10	5745.00163	5745	0.00163	0.2839
		T (°C)	0	5745.00814	5745	0.00814	1.4172
		T (°C)	10	5745.00405	5745	0.00405	0.7052
V nom	AC 120	T (°C)	20	5745.00230	5745	0.00230	0.4001
(V)	AC 120	T (°C)	30	5745.00767	5745	0.00767	1.3352
		T (°C)	40	5745.00434	5745	0.00434	0.7548
		T (°C)	50	5745.00151	5745	0.00151	0.2624
		T (°C)	60	5745.00864	5745	0.00864	1.5048
		T (°C)	70	5745.00752	5745	0.00752	1.3093
	Limits					5725-5850 MHz	
	Result				**********	Complies	

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Voltage vs. Frequency Stability

				Reference Frequency: 5785MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
_		V nom (V)	AC 120	5785.00339	5785	0.00339	0.5864	
T nom	20	V max (V)	AC 138	5785.00392	5785	0.00392	0.6776	
(0)		V min (V)	AC 102	5785.01039	5785	0.01039	1.7965	
	Limits			5725-5850 MHz				
	Result			Complies				

Temperature vs. Frequency Stability

				Reference Frequency: 5785MHz			
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
V nom (V)	AC 120	T (°C)	-20	5785.00842	5785	0.00842	1.4558
		T (°C)	-10	5785.00518	5785	0.00518	0.8948
		T (°C)	0	5785.00401	5785	0.00401	0.6939
		T (°C)	10	5785.00271	5785	0.00271	0.4692
		T (°C)	20	5785.00280	5785	0.00280	0.4841
		T (°C)	30	5785.01238	5785	0.01238	2.1404
		T (°C)	40	5785.01260	5785	0.01260	2.1784
		T (°C)	50	5785.00881	5785	0.00881	1.5232
		T (°C)	60	5785.00308	5785	0.00308	0.5316
		T (°C)	70	5785.00683	5785	0.00683	1.1810
Limits			5725-5850 MHz				
Result				Complies			

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Voltage vs. Frequency Stability

TEST CONDITIONS			Reference Frequency: 5825MHz				
			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T nom (°C)	20	V nom (V)	AC 120	5825.01199	5825	0.01199	2.0583
		V max (V)	AC 138	5825.01171	5825	0.01171	2.0109
		V min (V)	AC 102	5825.00727	5825	0.00727	1.2475
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)	AC 120	T (°C)	-20	5825.00231	5825	0.00231	0.3973
		T (°C)	-10	5825.01114	5825	0.01114	1.9128
		T (°C)	0	5825.00256	5825	0.00256	0.4395
		T (°C)	10	5825.00648	5825	0.00648	1.1130
		T (°C)	20	5825.01223	5825	0.01223	2.0999
		T (°C)	30	5825.00656	5825	0.00656	1.1266
		T (°C)	40	5825.00990	5825	0.00990	1.6997
		T (°C)	50	5825.00365	5825	0.00365	0.6267
		T (°C)	60	5825.00303	5825	0.00303	0.5196
		T (°C)	70	5825.00161	5825	0.00161	0.2764
Limits				5725-5850 MHz			
Result				Complies			

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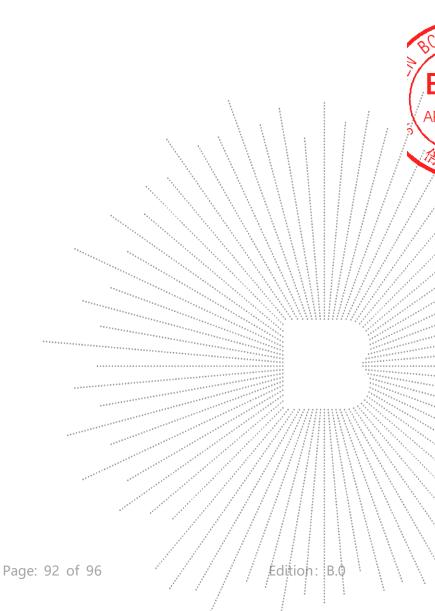
14. Antenna Requirement

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 EUT antenna is FPC antenna. It comply with the standard requirement.



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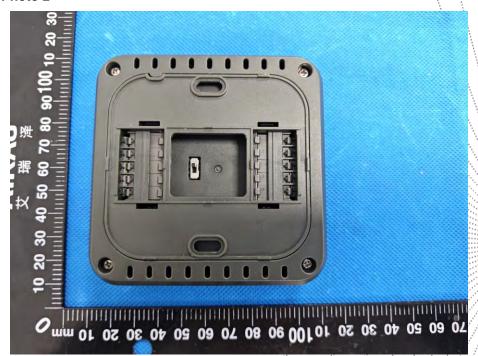


15. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

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16. EUT Test Setup Photographs

Conducted Measurement Photo



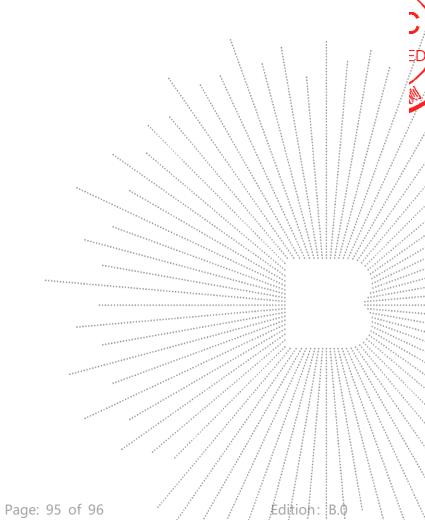
Radiated Measurement Photos



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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.

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**** END ****

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