



10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup



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 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 \geq 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.



10.5 Test Result

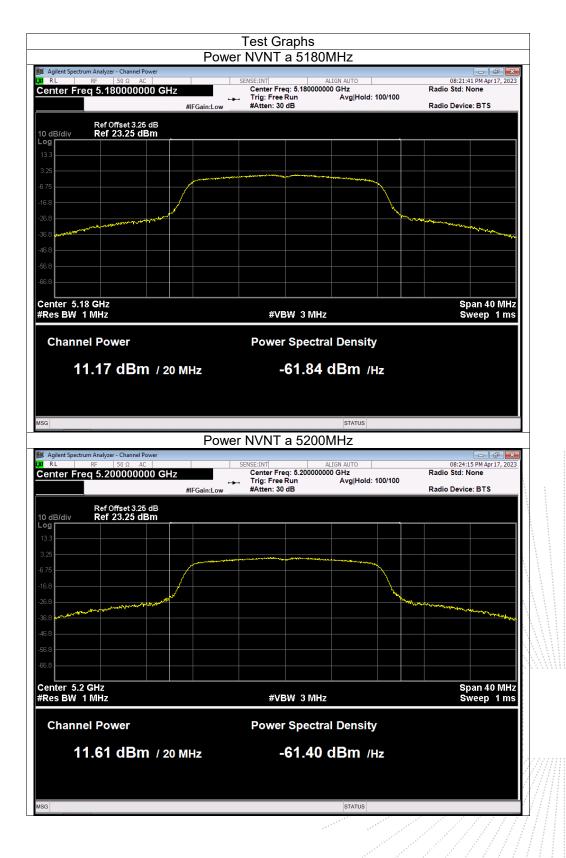
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	TX (5.1G) Mode Frequency U-NII	-1 (5180-5240MHz)	

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	11.17	24	Pass
NVNT	а	5200	11.61	24	Pass
NVNT	а	5240	12.64	24	Pass
NVNT	n20	5180	9.91	24	Pass
NVNT	n20	5200	10.22	24	Pass
NVNT	n20	5240	11.65	24	Pass
NVNT	n40	5190	9.52	24	Pass
NVNT	n40	5230	10.8	24	Pass
NVNT	ac20	5180	9.8	24	Pass
NVNT	ac20	5200	10.12	24	Pass
NVNT	ac20	5240	11.53	24	Pass
NVNT	ac40	5190	9.28	24	Pass
NVNT	ac40	5230	10.76	24	Pass
NVNT	ac80	5210	10.37	24	Pass

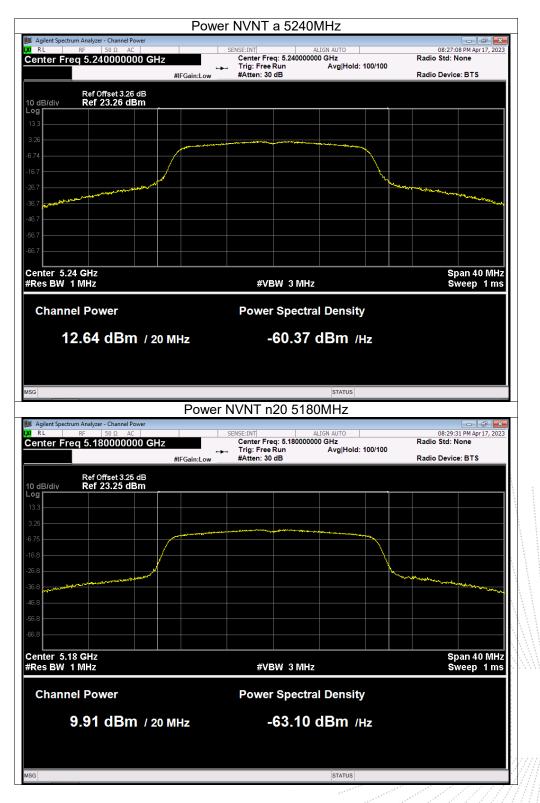
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Temperature :	26 ℃	Relative Humidity:	54%					
Pressure :	101kPa	Test Voltage :	DC 5\	/ \				
Test Mode :	TX (5.8G) Mode Freque	ncy U-NII-3 (5745-5825MHz)						

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5745	12,33	30	Pass
NVNT	а	5785	11.97	30	Pass
NVNT	а	5825	11.42	30	Pass
NVNT	n20	5745	11.15	30	Pass
NVNT	n20	5785	10.76	30	Pass
NVNT	n20	5825	10.31	30	Pass
NVNT	n40	5755	10.24	30	Pass
NVNT	n40	5795	9.81	30	Pass
NVNT	ac20	5745	11.4	30	Pass
NVNT	ac20	5785	10.84	30	Pass
NVNT	ac20	5825	10.28	30	Pass
NVNT	ac40	5755	10.34	30	Pass
NVNT	ac40	5795	9.73	30	Pass
NVNT	ac80	5775	9.09	30	Pass

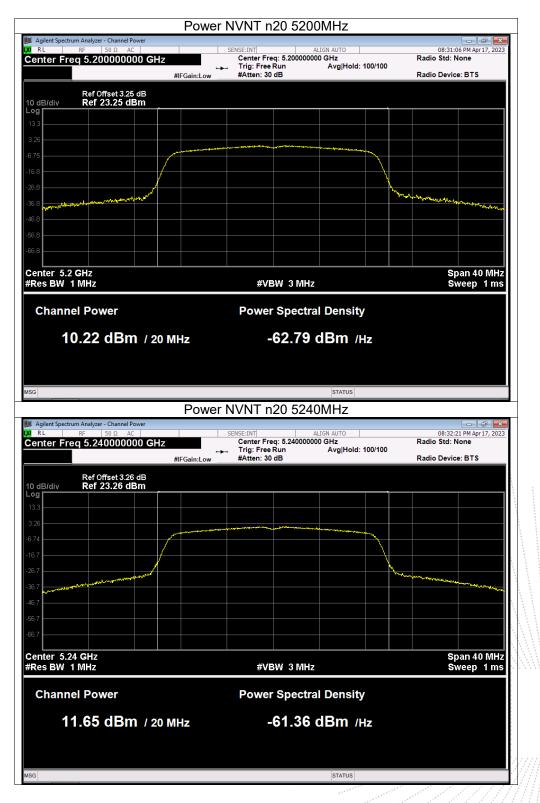




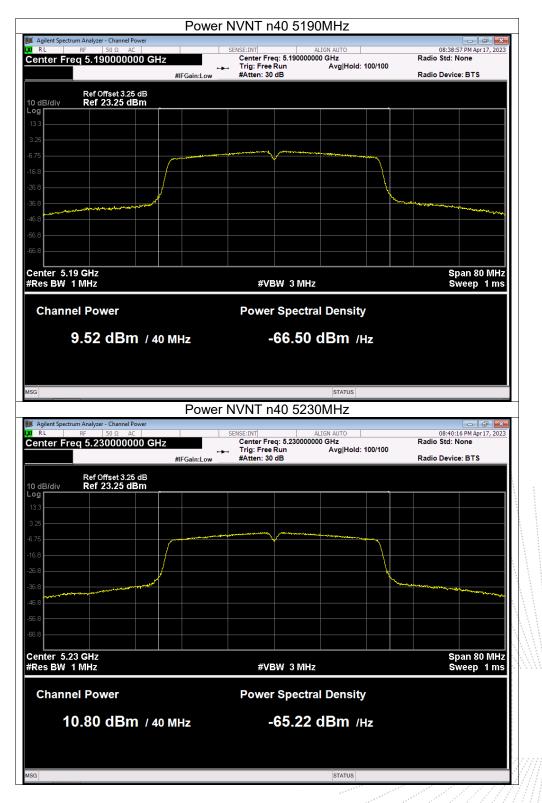




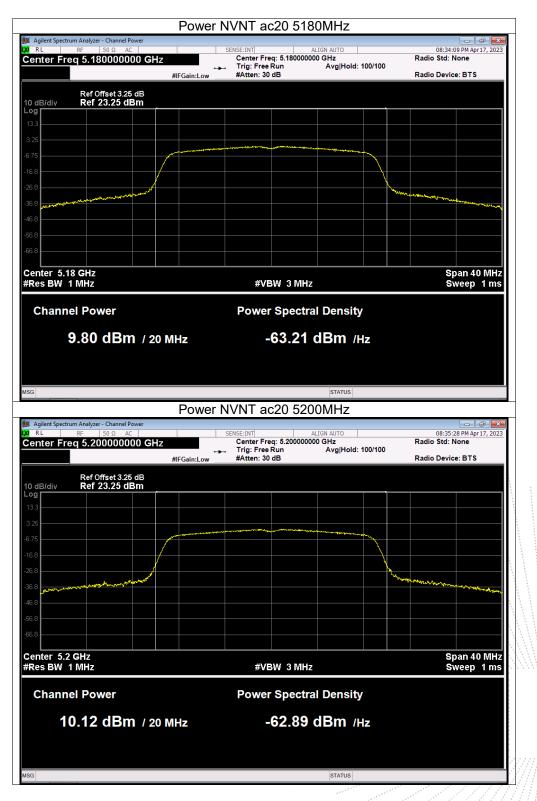




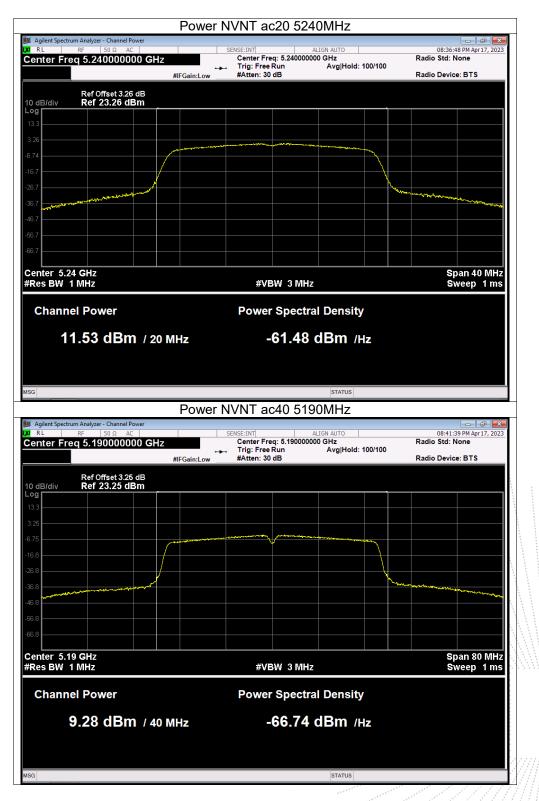




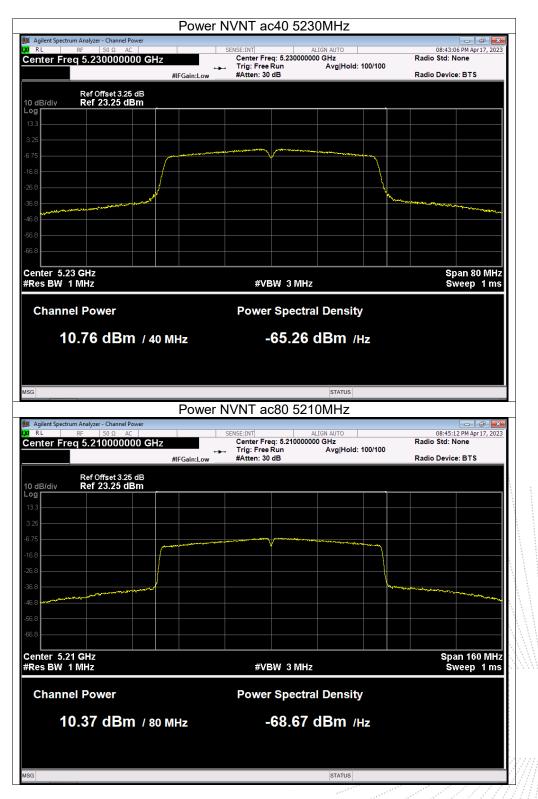




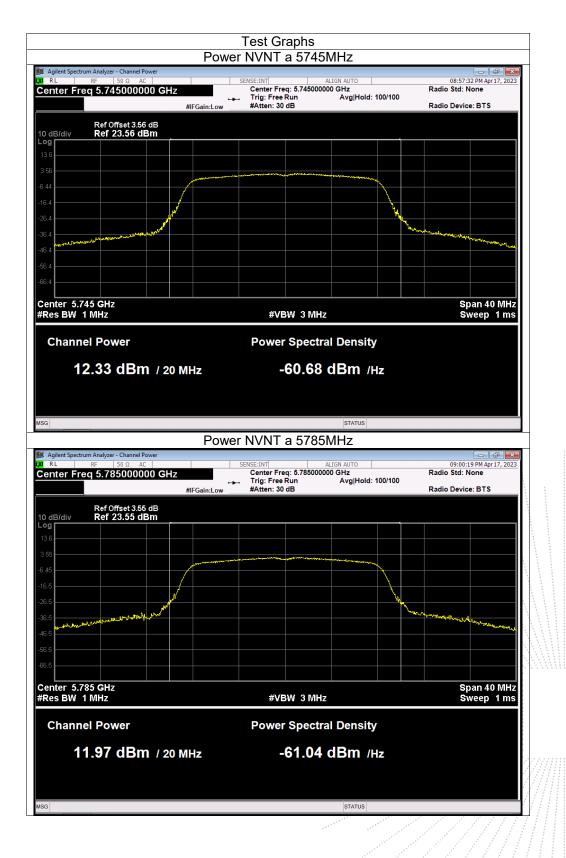




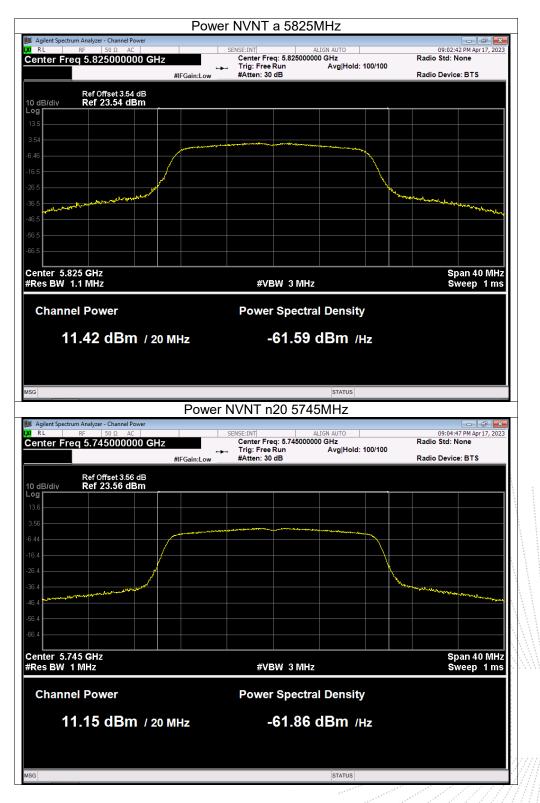




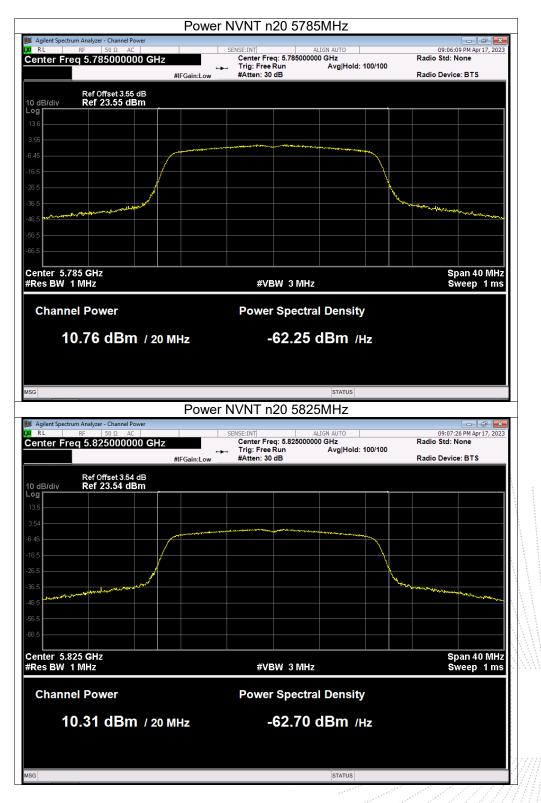




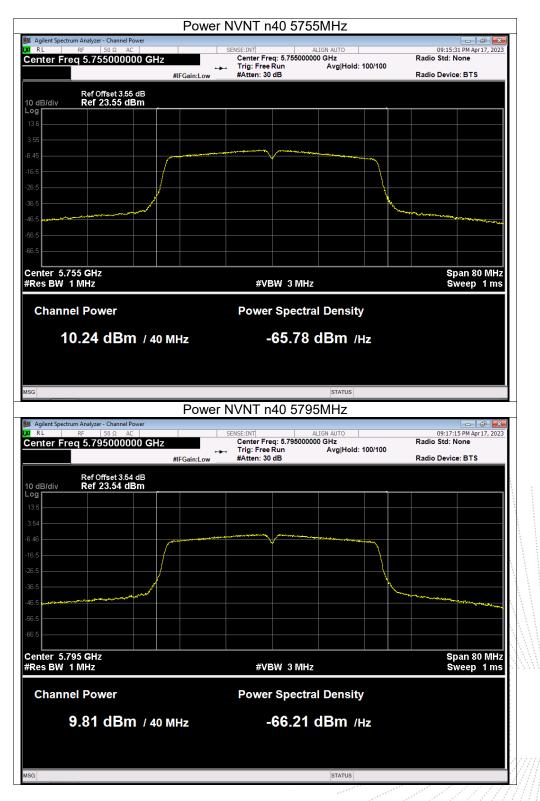




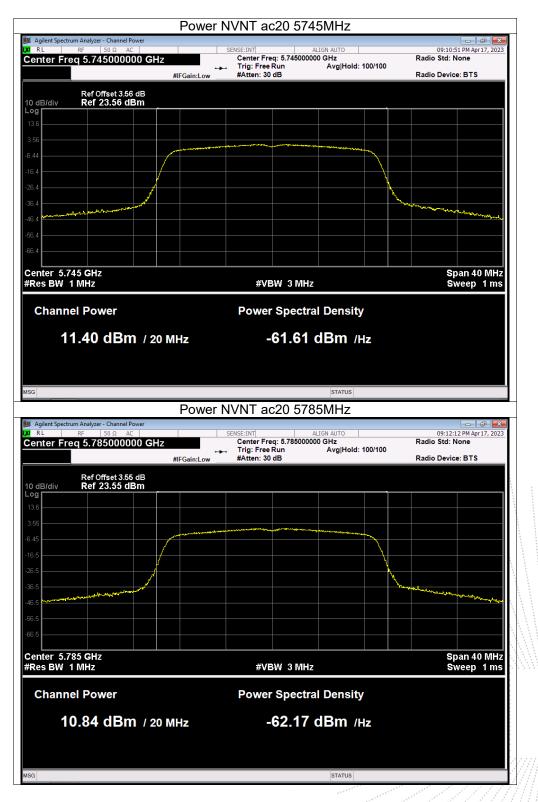




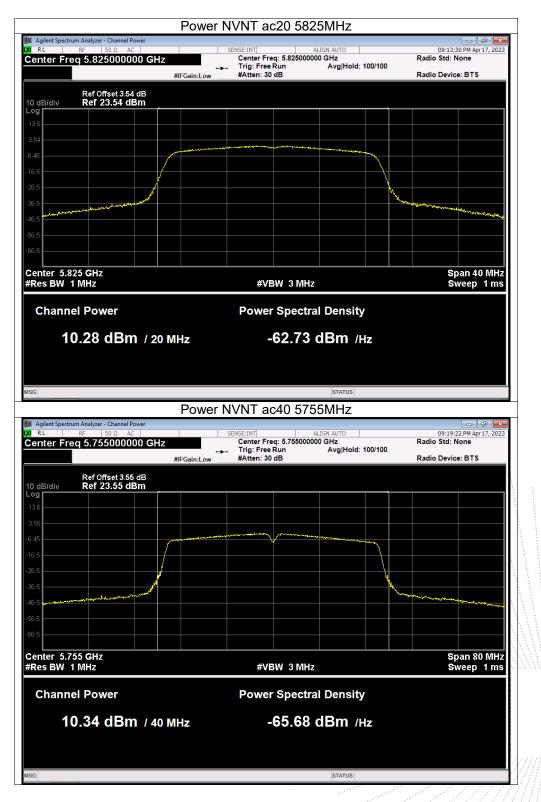




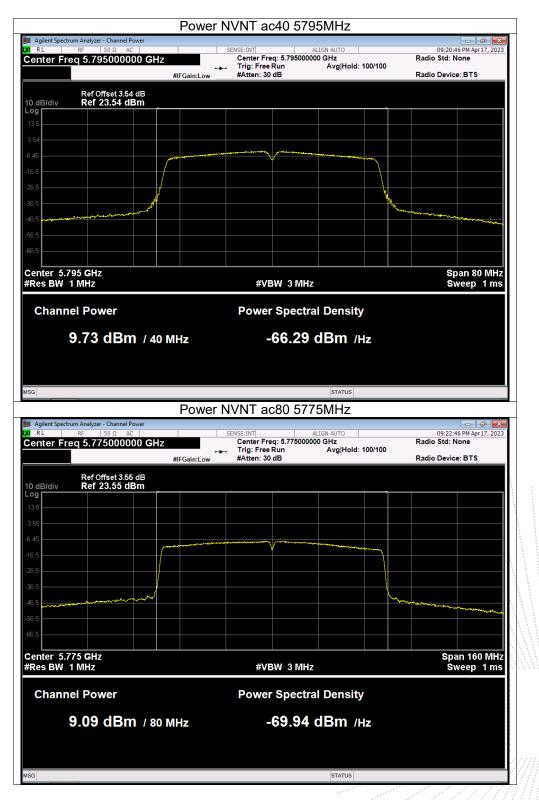














11. Out Of Band Emissions

11.1 Block Diagram Of Test Setup



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.

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.

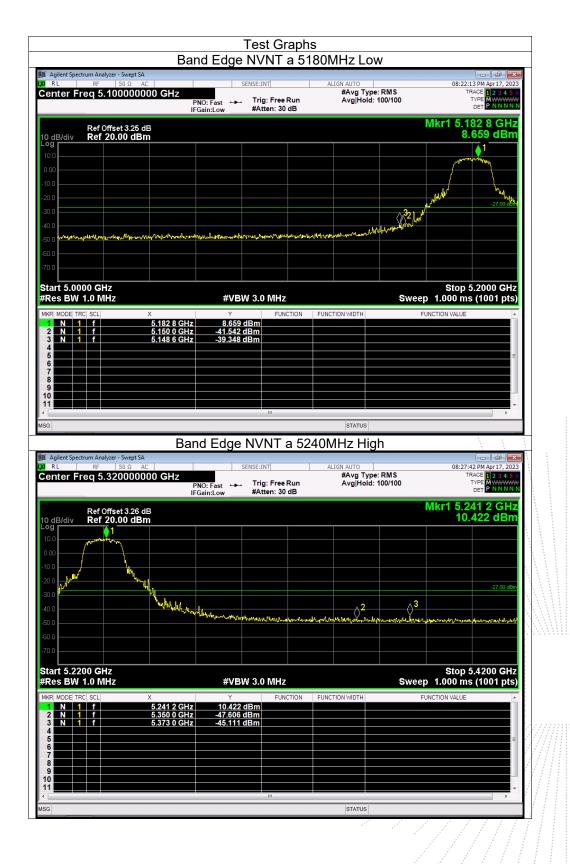
11.4 EUT Operating Conditions

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

Page: 100 of 139



11.5 Test Result





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1 N 1 f	5.178 8 GHz 5.150 0 GHz	7.853 dBm		FUNCTION VALUE
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-	Band Ec	de NV/NT ac2(STATUS	
		lge NVNT ac20	0 5240MHz High	
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Agilent Spectrum Analyzer - Swept S R L RF 50 Ω	AC	SENSE:INT ast →→ Trig: Free Rur	0 5240MHz High	
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Agilent Spectrum Analyzer - Sw		Edge NVNT n2			
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tart 5.5650 GHz				Stor	p 5.7650 GHz
Res BW 1.0 MHz		#VBW 3.0 MHz		Sweep 1.000	ms (1001 pts)
KR MODE TRC SCL	X	Y FUNCT	ION FUNCTION WIDTH	FUNCTION VALU	JE A
2 N 1 f	5.746 6 GHz 5.725 0 GHz	8.477 dBm -33.976 dBm -32.668 dBm			
3 N 1 f	5.724 0 GHz	-32.668 dBm			
5					
7					
9					
3					
			STATUS		
	Band	Edge NVNT n2		gh	
	vept SA		0 5825MHz Hi	•	07:59 PM Apr 17, 2023
RL RF 50 9	2 AC 000000 GHz	SENSE:INT	0 5825MHz Hi	09:	07:59 PM Apr 17, 2023
RL RF 50 9 enter Freq 5.9050	/ept SA Ω AC 1000000 GHz PN		0 5825MHz Hi Align Auto #Avg Type Avg Hold:	09: : RMS 100/100	07:59 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE DET P N N N N
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RL RF 50 5 enter Freq 5.9050 ASS Ref Offset 3 d dB/div Ref 20.00	xept SA Ω AC 000000 GHz PN FG 3.54 dB	SENSE:INT O: Fast → Trig: Free R	0 5825MHz Hi Align Auto #Avg Type Avg Hold:	09: RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE DET P N N N N
RL RF 50 / enter Freq 5.9050 ASS Ref Offset 3 Ref Offset 3 0 dB/div Ref 20.00 Parage Trace 1 Fp 13	xept SA Ω AC 000000 GHz PN FG 3.54 dB	SENSE:INT O: Fast → Trig: Free R	0 5825MHz Hi Align Auto #Avg Type Avg Hold:	09: RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN
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RL RF 501 enter Freq 5.9050 ASS ASS dB/div Ref Offset 3 Ref 0 ffset 3 0 Trace 1 Fp 13 13	Rept SA Ω AC 1000000 GHz PN IFG 3.54 dB 0 dBm	SENSE:INT O: Fast → Trig: Free R	0 5825MHz Hi Align Auto #Avg Type Avg Hold:	09: RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN
RL RF 501 enter Freq 5.9050 ASS Ref Offset 3 dB/div Ref 20.00 Trace 1 Fp 13 Trace 1 Fp 13	Rept SA Ω AC PN 1000000 GHz PN IFG 3.54 dB dBm	SENSE:INT O: Fast → Trig: Free R	0 5825MHz Hi Align Auto #Avg Type Avg Hold:	09: RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN
RL RF 501 enter Freq 5.9050 ASS ASS ABJ/div Ref 20.00 P Trace 1 Fp 13 Comparison of the second	R AC PN 1000000 GHz PN 8.54 dB dBm PN	SENSE:INT O: Fast ain:Low → Trig: Free Ri #Atten: 30 d	0 5825MHz Hi	:RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 12 3 4 3 6 TYPE MWWWWW DET P N N N N 8224 0 GHz 7.498 dBm
RL RF 501 enter Freq 5.9050 ASS ASS Ref Offset 3 dB/div Ref 20.00 P Trace 1 Fp 13 000 MAR	R AC PN 1000000 GHz PN 8.54 dB dBm PN	SENSE:INT O: Fast → Trig: Free R	0 5825MHz Hi	:RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 12 3 4 3 6 TYPE M 2014 3 4 3 DET P NNNN 824 0 GHz 7.498 dBm
Ref Offset 3 D dB/div Ref 20,00 Trace 1 Fp 13 Trace 1 Fp 13 MM	R AC PN 1000000 GHz PN 8.54 dB dBm PN	SENSE:INT O: Fast ain:Low → Trig: Free Ri #Atten: 30 d	0 5825MHz Hi	:RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 12 3 4 3 6 TYPE MWWWWW DET P N N N N 8224 0 GHz 7.498 dBm
RL RF 50 / 200 ASS Ref Offset 3 Odd State 0 dB/div Ref 20.00 0 0 model 15 / 200 0 0 model 15 / 200 0 0 model 0 0 0	R AC PN 1000000 GHz PN 8.54 dB dBm PN	SENSE:INT O: Fast ain:Low → Trig: Free Ri #Atten: 30 d	0 5825MHz Hi	09: RMS 100/100 Mkr1 5	07:59 PM Apr 17, 2023 TRACE 1 2:34 3:6 TYPE M ANN N DET P NNNN 824 0 GHz 7.498 dBm
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RL RF 50.1 enter Freq 5.9050 ASS ASS Ref Offset 3 ASS Ref 20.00 Trace 1 F 13 ASS ASS ASSS ASS	AC DOUDOOD GHz PN B.64 dB C Bm AC AC A	SENSE:INT O: Fast ain:Low Trig: Free Ri #Atten: 30 d	0 5825MHz Hi	۲۹۹۲ ۱۵۵/۱۵۵ ۸kr1 5 ۱۹۹۲ ۱۹۹۲ ۱۹۹۲ ۱۹۹۲ ۱۹۹۲ ۱۹۹۲ ۱۹۹۲ ۱۹۹	27:59 PM Apr 17, 2023 TRACE 1 2.3 4 3 6 TYPE M APR 17, 2023 TYPE M APR 17, 2023 TYPE M APR 17, 2023 TYPE M APR 17, 2023 TYPE M APR 17, 2023 STATUS 10, 2025 P 6.0050 GHz ms (1001 pts)
RL PF 50.1 enter Freq 5.9050 ASS Ref Offset 3 dB/div Ref 0 ffset 3 Ref 20.00 7 Trace 1 F 1.3 Ref 20.00 7 Ref 0 ffset 3 Ref 20.00 8 Ref 20.00 Ref 20.00 8 MOE TO SUB Ref 20.00 8 MOE TO SUB Ref 20.00 9 Ref 20.00 Ref 20.00	xept SA Ω AC 1000000 GHz PN IFG 3.54 dB 0 Bm 4.4 5.824 0 GHz	SENSE:INT O: Fast ain:Low Trig: Free Ri #Atten: 30 d	0 5825MHz Hi	09: RMS 100/100 Mkr1 5	27:59 PM Apr 17, 2023 TRACE 1 2.3 4 3 6 TYPE M APR 17, 2023 TYPE M APR 17, 2023 TYPE M APR 17, 2023 TYPE M APR 17, 2023 TYPE M APR 17, 2023 STATUS 10, 2025 P 6.0050 GHz ms (1001 pts)
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Agilent Spectrum Analyzer - Sv RL RF 50		SENSE:IN	rl I	ALIGN AUTO		09:16	5:04 PM Apr 17, 2023
enter Freq 5.6950	000000 GHz	Telev	Free Run	#Avg Typ Avg Hold			TRACE 1 2 3 4 5 6
ASS			en: 30 dB	Avginoid	. 100/100		
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dB/div Ref 20.00	aBm					`	
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tart 5.5950 GHz						Stop	5.7950 GHz
Res BW 1.0 MHz		#VBW 3.0	MHz		Swe		ns (1001 pts)
KR MODE TRC SCL	× 5.758 4 GHz	۲ 5.305 dBm	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
2 N 1 f 3 N 1 f	5.725 0 GHz 5.720 6 GHz	-35.062 dBm -30.424 dBm					
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8							
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G	Band		T n40 5	STATUS	ligh		
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Agilent Spectrum Analyzer - Sv R L RF 50	vept SA Ω AC					09:17	7:50 PM Apr 17, 2023 TRACE 1 2 3 4 5 6
Agilent Spectrum Analyzer - Sv R L RF 50 enter Freq 5.8550	vept SA Ω AC 000000 GHz	SENSE:INT		795MHz H	e: RMS	09:17	
Agilent Spectrum Analyzer - Sw RL RF 50 enter Freq 5.8550	vept SA Ω AC 000000 GHz Pt IFC	SENSE:IN NO: Fast ↔ Trig:	Free Run	795MHz H Align Auto #Avg Typ	e: RMS	Mkr1 5.	7:50 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN 793 0 GHz
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Agilent Spectrum Analyzer - Sw RL RF S0 enter Freq 5.8550 ASS Ref Offset 3 dB/div Ref 20.00	vept SA <u>Q</u> AC 0000000 GHz PP IFC 3.54 dB 0 dBm	SENSE:IN NO: Fast ↔ Trig:	Free Run	795MHz H Align Auto #Avg Typ	e: RMS	Mkr1 5.	7:50 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN 793 0 GHz
Aglient Spectrum Analyzer - Sw RL RF 50 enter Freq 5.8550 ASS dB/div Ref Offset 3 dB/div Ref 20.00 9 Trace 1 Pass	xept SA Ω AC D00000 GHz Pt IFC 3.54 dB	SENSE:IN NO: Fast ↔ Trig:	Free Run	795MHz H Align Auto #Avg Typ	e: RMS	Mkr1 5.	7:50 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN 793 0 GHz
Aglient Spectrum Analyzer - Sw RL RF 50 enter Freq 5.8550 ASS dB/div Ref 20.00 P Trace 1 Pass	vept SA <u>Q</u> AC 0000000 GHz PP IFC 3.54 dB 0 dBm	SENSE:IN NO: Fast ↔ Trig:	Free Run	795MHz H Align Auto #Avg Typ	e: RMS	Mkr1 5.	7:50 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN 793 0 GHz
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Aglient Spectrum Analyzer - Sw RL RF 50 enter Freq 5.8550 ASS dB/div Ref 20.00 Trace 1 Pass	vept SA <u>Q</u> AC 0000000 GHz PP IFC 3.54 dB 0 dBm	SENSE:IN VO: Fast →→ Trig: ain:Low #Atte	Free Run en: 30 dB	ALIGN AUTO #Avg Typ Avg Hold	e: RMS : 100/100	Mkr1 5.7	550 PM Apr17, 2023 TYPE MANNAN 000 PM ANNAN 000 PM ANNA
Agilent Spectrum Analyzer - Sw RL RF 50 enter Freq 5.8550 ASS dB/div Ref 20.00 grace 1 Pass	vept SA <u>Q</u> AC 0000000 GHz PP IFC 3.54 dB 0 dBm	SENSE:IN 40: Fast →→ Trig: ain:Low #Atte	Free Run en: 30 dB	795MHz H Align Auto #Avg Typ	e: RMS : 100/100	Mkr1 5.7	7:50 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN 793 0 GHz
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Agilent Spectrum Analyzer - Sw RL RF 50 enter Freq 5.8550 ASS D dB/div Ref 20.00 Trace 1 Pass 0 Trace 1 Pass 0	vept SA <u>Q</u> AC D 0000000 GHz P IFC 3.54 dB 0 dBm	SENSE:IN VO: Fast →→ Trig: ain:Low #Atte	Free Run n: 30 dB	ALIGN AUTO #Avg Typ Avg Hold	e: RMS : 100/100	Mkr1 54	5:50 M Apr17, 2023 TARACE [] 2:3 4 3:6 TYPE MININ N 793 0 GHZ 1.548 dBm 5.9550 GHZ 5.9550 GHZ (1001 pts)
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Agilent Spectrum Analyzer - Sv RL RF 50 enter Freq 5.8550 ASS dB/div Ref 20.00 7 race 1 Pass dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	xept SA <u>Q</u> AC D000000 GHz P IFC 3.54 dB dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:IN NO: Fast → Trig: Jain:Low + #Atte	Free Run n: 30 dB	ALIGN AUTO #Avg Typ Avg Hold	e: RMS : 100/100	Mkr1 54	5:50 M Apr17, 2023 TARACE [] 2:3 4 3 6 TYPE MININ N 793 0 GHZ 1.548 dBm 5.9550 GHZ 5.9550 GHZ s (1001 pts)
Agilent Spectrum Analyzer - Siv RL RF 50 enter Freq 5.8550 ASS Comparison of the second s	xept SA <u>Q</u> AC D000000 GHz P IFC 3.54 dB dBm 1 5.793 0 GHz 5.793 0 GHz	SENSE:IN NO: Fast →→ Trig: sain:Low → #Atte	Free Run n: 30 dB	ALIGN AUTO #Avg Typ Avg Hold	e: RMS : 100/100	Mkr1 54	5:50 M Apr17, 2023 TARACE [] 2:3 4 3 6 TYPE MININ N 793 0 GHZ 1.548 dBm 5.9550 GHZ 5.9550 GHZ s (1001 pts)
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Aglient Spectrum Analyzer - Sw RL RE 50 enter Freq 5.8550 ASS CBJdiv Ref Offset 3 CBJdiv Ref 20.00 P Trace 1 Pass CBJdiv Ref 20.00 CD CD CD CD CD CD CD CD CD CD	xept SA <u>Q</u> AC D000000 GHz P IFC 3.54 dB dBm 1 5.793 0 GHz 5.793 0 GHz	SENSE:IN NO: Fast →→ Trig: sain:Low → #Atte	Free Run n: 30 dB	ALIGN AUTO #Avg Typ Avg Hold	e: RMS : 100/100	Mkr1 54	5:50 M Apr17, 2023 TARACE [] 2:3 4 3 6 TYPE MININ N 793 0 GHZ 1.548 dBm 5.9550 GHZ 5.9550 GHZ s (1001 pts)



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tart 5.5650 GHz						Stop :	5.7650 GHz
Res BW 1.0 MHz		#VBW 3.0) MHz		Sweep		s (1001 pts)
KR MODE TRC SCL	Х	Y	FUNCTION	FUNCTION WIDTH	FL	INCTION VALUE	*
1 N 1 f 2 N 1 f	5.744 0 GHz 5.725 0 GHz	8.426 dBm -35.163 dBm					
3 N 1 f	5.722 0 GHz	-34.526 dBm					
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RL RF 50 Ω enter Freq 5.905000	A AC 000 GHz PI	SENSE:	INT	5825MHz H Align Auto #Avg Typ	e: RMS : 100/100	т	04 PM Apr 17, 2023 RACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN
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RL PF 50.0 enter Freq 5.9050000 ASS ASS Ref Offset 3.54 dB/div Ref 20.00 dB Trace 1 1 1s 1 000 0 <	A AC OOO GHz PP IFC dB 3m 4th 2 3 4th 2 3 4th 2 3 4th 4th 5.822 2 GHz 5.822 2 GHz	SENSE: NO: Fast →→ Tri Sain:Low → #A	g: Free Run tten: 30 dB	ALIGN AUTO #Avg Typ Avg Hold:	e: RMS : 100/100	T Mkr1 5.8 8. 	04 PM Apr17, 2023 RACE 12 3 4 5 6 DET P NNNN DET P NNNN 22 2 GHz 002 dBm
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enter Freq 5.695000			#Avg Type: RMS	TRACE 1 2 3 4 5 6
ASS		Fast Trig: Free Run h:Low #Atten: 30 dB	Avg Hold: 100/100	TYPE MWWWWWW DET PNNNNN
Ref Offset 3.55	dB			Mkr1 5.751 2 GHz
dB/div Ref 20.00 dE				6.163 dBm
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				Stop 5 7050 CHr
tart 5.5950 GHz Res BW 1.0 MHz		#VBW 3.0 MHz	Sw	Stop 5.7950 GHz eep 1.000 ms (1001 pts)
KR MODE TRC SCL	Х	Y FUNCTION		FUNCTION VALUE
1 N 1 f 2 N 1 f	5.751 2 GHz 5.725 0 GHz	6.163 dBm -33.231 dBm		
3 N 1 f 4	5.721 4 GHz	-28.061 dBm		
5 6				Ξ
7 8				
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G			STATUS	
	Band E	dge NVNT ac40) 5795MHz High	
) 5795MHz High	
RL RF 50 Ω	AC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr 17, 2023
RL RF 50 Ω enter Freq 5.855000	AC 000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr 17, 2023
RL RF 50 Ω enter Freq 5.855000 ASS	AC 000 GHz PNO: IFGair	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr 17, 2023 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN Mkr1 5.793 4 GHz
RL RF 50 Ω enter Freq 5.855000 ASS ASS Ref Offset 3.54 0 dB/div Ref 20.00 dE	AC DOO GHZ PNO: IFGair	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr 17, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P. N.N.N.N
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RL RF 50 Ω enter Freq 5.855000 ASS ASS ABS Ref Offset 3.54 Ref 20.00 dE Trace 1 Pass Trace 1 Pass ASS	AC 000 GHz PNO: IFGair dB 3m 1	Fast ← Trig: Free Run :Low #Atten: 30 dB	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr 17, 2023 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN Mkr1 5.793 4 GHz
RL RF 50 Ω enter Freq 5.855000 ASS ASS ABS Ref Offset 3.54 Ref 20.00 dE Trace 1 Pass Trace 1 Pass ASS	AC 000 GHz PNO: IFGair dB 3m 1	Fast → Trig: Free Run H:Low #Atten: 30 dB	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr 17, 2023 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN Mkr1 5.793 4 GHz
RL RF 50 Ω enter Freq 5.855000 ASS ASS ASS Ref Offset 3.54 Ref 20.00 dE D dB/div Ref 20.00 dE Ref 20.00 dE Trace 1 Pass Ref 20.00 dE Ref 20.00 dE D dB/div Ref 20.00 dE Ref 20.00 dE D dB/div Ref 20.00 dE Ref 20.00 dE Ref 20.00 dE Ref 20.00 dE Ref 20.00 dE Ref 20.00 dE Ref 20.00 dE Ref 20.00 dE	AC 000 GHz PNO: IFGair dB 3m 1	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:21:20 PM Apr17, 2023 TRACE 12:34 3 C TYPE MUMANN DET PININN N Mkr1 5.793 4 GHz 4.588 dBm
RL RF 50 Ω enter Freq 5.855000 ASS ASS ABS Bef Offset 3.54 Ref Offset 3.54 ABS Trace 1 Pass ASS ABS ABS ABS	AC 000 GHz PNO: IFGair dB 3m 1	Fast → Trig: Free Run H:Low #Atten: 30 dB	ALIGN AUTO #Avg Type: RMS Avg Hold: 100/100	09:21:20 PM Apr17, 2023 TRACE 12:34 3 C TYPE MUMANN DET PININN N Mkr1 5.793 4 GHz 4.588 dBm
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enter Freq 5.855000 ASS d GB/div Ref 20.00 dE	AC A	SENSE:INT Fast → Trig: Free Run #Atten: 30 dB #Uhuthuthuthuthuthuthuthuthuthuthuthuthuth	ALIGN AUTO #Avg Type: RMS Avg Hold: 100/100	09:21:20 PM Apr17, 2023 TRACE [] 2:4 3:6 TYPE [] 2:4 3:6 DET P MINN N Mkr1 5.793 4 GHz 4.588 dBm 4.588 dBm 5 top 5.9550 GHz eep 1.000 ms (1001 pts)
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RL PF 50 Q. enter Freq 5.855000 ASS ASS Ref Offset 3.54 Ref 20.00 dE 0 dB/div Ref 20.00 dE 1 market Ref 20.00 dE 0 market Ref 20.00	AC A	SENSE:INT Fast → Trig: Free Run #Atten: 30 dB #Uhuthuthuthuthuthuthuthuthuthuthuthuthuth	ALIGN AUTO #Avg Type: RMS Avg Hold: 100/100	09:21:20 PM Apr17, 2023 TRACE [] 2:4 3:6 TYPE [] 2:4 3:6 DET P MINN N Mkr1 5.793 4 GHz 4.588 dBm 4.588 dBm 5 top 5.9550 GHz eep 1.000 ms (1001 pts)



Agilent Spectrum Analyzer - Swe		Edge NVNT ac8	Ť	
enter Freq 5.79500		SENSE:INT O: Fast ↔ Trig: Free Rui		
ASS	IFG	ain:Low #Atten: 30 dB	5	
Ref Offset 3. dB/div Ref 20.00				Mkr1 5.777 8 GHz 0.094 dBm
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12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup



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.

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.

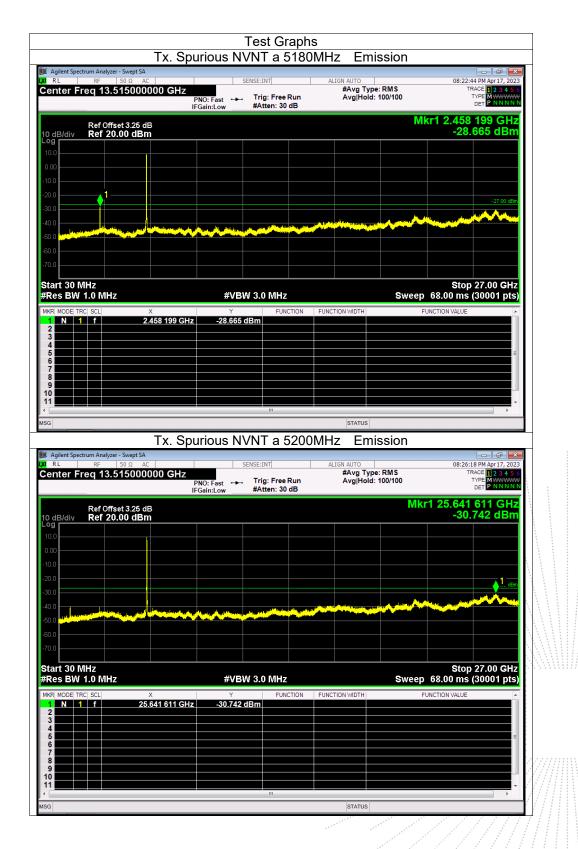
5. Repeat above procedures until all measured frequencies were complete.

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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Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.5150 Ref Offset 3.2 0 0 dB/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 00000 GHz	SEN: PNO: Fast ↔	Γ ac40 51 SE:INT Trig: Free Run #Atten: 30 dB	90MHZ E	pe: RMS d: 100/100	1 25.615 -30.	15 PM APT 17, 2023 WACE II 2 3 4 5 6 TYPE M WWWWWW DET P. NINN N 540 GHZ 614 dBm
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.5150 Ref Offset 3.2 0 dB/div Ref 20.00 d 0 0 0	AC 00000 GHz	PNO: Fast	Γ ac40 51 SE:INT Trig: Free Run #Atten: 30 dB	90MHZ E	Pe: RMS d: 100/100 Mk1	1 25.615 -30.	13 PM APT 17, 2023 4442 II 2 3 4 5 6 TYPE M 4444 19 2 3 4 5 6 19 4 4 4 8 19 4 4 8 19 4 4 8 19 4 8
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.5150 0 dB/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC 000000 GHz 5 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast FGain:Low	T ac40 51 SE:INT Trig: Free Run #Atten: 30 dB 3.0 MIHz FUNCTION	90MHZ E	Pe: RMS di: 100/100	1 25.615 -30.	15 PM APT 17, 2023 WACE II 2 3 4 5 6 TYPE M WWWWWW DET P. NINN N 540 GHZ 614 dBm
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.51500 Ref Offset 3.2 0 dB/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 00000 GHz 100000 GHz 1000000 GHz 100000 GHZ 1000000 GHZ 1000000 GHZ 1000000 GHZ 1000000 GHZ 1000000 GHZ 100000 GHZ 100000 GHZ 100000 GHZ 100000 GHZ 100000 GHZ 1000000 GHZ 1000000 GHZ 1000000 GHZ 10000000 GHZ 10000000 GHZ 1000000000000000000000000000000000000	PNO: Fast FGain:Low	T ac40 51 SE:INT Trig: Free Run #Atten: 30 dB 3.0 MIHz FUNCTION	90MHZ E	Pe: RMS di: 100/100	1 25.615 -30.	13 PM APT 17, 2023 4442 II 2 3 4 5 6 TYPE M 4444 19 2 3 4 5 6 19 4 4 4 8 19 4 4 8 19 4 4 8 19 4 8
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.51500 Ref Offset 3.2 Ref Offset 3.2 0.0 <	AC AC 000000 GHz 5 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast FGain:Low	T ac40 51 SE:INT Trig: Free Run #Atten: 30 dB 3.0 MIHz FUNCTION	90MHZ E	Pe: RMS di: 100/100	1 25.615 -30.	13 PM APT 17, 2023 4442 II 2 3 4 5 6 TYPE M 4444 19 2 3 4 5 6 19 4 4 4 8 19 4 4 8 19 4 4 8 19 4 8
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.5150 Ref Offset 3.2 Comparison of the system	AC AC 000000 GHz 5 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast FGain:Low	T ac40 51 SE:INT Trig: Free Run #Atten: 30 dB 3.0 MIHz FUNCTION	90MHZ E	Pe: RMS di: 100/100	1 25.615 -30.	13 PM APT 17, 2023 4442 II 2 3 4 5 6 TYPE M 4444 19 2 3 4 5 6 19 4 4 4 8 19 4 4 8 19 4 4 8 19 4 8
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.5150 Ref Offset 3.2 Comparison of the system	AC AC 000000 GHz 5 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast FGain:Low	T ac40 51 SE:INT Trig: Free Run #Atten: 30 dB 3.0 MIHz FUNCTION	90MHZ E	Pe: RMS di: 100/100	1 25.615 -30.	13 PM APT 17, 2023 4442 II 2 3 4 5 6 TYPE M 4444 19 2 3 4 5 6 19 4 4 4 8 19 4 4 8 19 4 4 8 19 4 8
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.51500 Ref Offset 3.2 O dB/div Ref 20.00 d 0.0	AC AC 000000 GHz 5 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast FGain:Low	T ac40 51 SE:INT Trig: Free Run #Atten: 30 dB 3.0 MIHz FUNCTION	90MHZ E	Pe: RMS di: 100/100	1 25.615 -30.	13 PM APT 17, 2023 444 El 2 3 4 5 6 TYPE M 444 19 2 3 4 5 6 19 2 4 5 6 19 4 4 4 8 19 4 4 8 19 4 4 8 19 4 5 6 19



Agilent Spectrum Analyzer - Swe	ept SA		10 5230MHz			
RL RF 50 Ω enter Freq 13.5150		SENSE:INT	ALIGN AUTO	Type: RMS	08:44:10	PM Apr 17, 2023
	P	NO:Fast ↔ Trig:Fre	eeRun Avg H	old: 100/100	T	ACE 1 2 3 4 5 6 YPE M WWWWW DET P N N N N N
		Gain:Low #Atten: 3		Mk	1 25.622	
Ref Offset 3. dB/div Ref 20.00	25 dB dBm				-29.6	600 dBm
og						
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io.o waying and a second second						
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tart 30 MHz					Stop 2	27.00 GHz
Res BW 1.0 MHz		#VBW 3.0 MF	lz	Sweep	68.00 ms (30001 pts)
KR MODE TRC SCL	× 25.622 732 GHz	Y FU -29.600 dBm	UNCTION FUNCTION WIDT	H FI	JNCTION VALUE	<u> </u>
2		20.000 0.011				
4 5						
6						
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G			STAT	JS		
G	Tx. Spurio	ous NVNT ac8				
Agilent Spectrum Analyzer - Swe	ept SA	ous NVNT ac8	30 5210MHz	Emission		
Agilent Spectrum Analyzer - Swe	ept SA	SENSE:INT	30 5210MHz Align Auto #Avg	Emission	08:46:08 TR4	PM Apr 17, 2023
Agilent Spectrum Analyzer - Swe	ept SA 2 AC 000000 GHz	SENSE:INT NO: Fast →→→ Trig: Fre	BO 5210MHz Align Auto #Avg ee Run Avg H	Emission	08:46:08 TR4	
Agilent Spectrum Analyzer - Swe RL RF 50 Q enter Freq 13.515(ept SA 2 AC 000000 GHz PIF(SENSE:INT	BO 5210MHz Align Auto #Avg ee Run Avg H	Emission Type: RMS lold: 100/100	08:46:08 TRA T 1 1 25.716	ACE 1 2 3 4 5 6 ACE 1 2 3 4 5 6 ACE P NNNNN DET P NNNNN
Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.5150 Ref Offset 3. 0 dB/div Ref 20.00	ept SA 2 AC 000000 GHz P IF0 25 dB	SENSE:INT NO: Fast →→→ Trig: Fre	BO 5210MHz Align Auto #Avg ee Run Avg H	Emission Type: RMS lold: 100/100	08:46:08 TRA T 1 1 25.716	ACE 123456 YPE MWWWWW DET PNNNNN
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Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.515(Ref Offset 3. 0 dB/div Ref 20.00	ept SA 2 AC 000000 GHz P IF0 25 dB	SENSE:INT NO: Fast →→→ Trig: Fre	BO 5210MHz Align Auto #Avg ee Run Avg H	Emission Type: RMS lold: 100/100	08:46:08 TRA T 1 1 25.716	ACE 1 2 3 4 5 6 ACE 1 2 3 4 5 6 ACE P NNNNN DET P NNNNN
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Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.5150 Ref Offset 3. 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ept SA 2 AC 000000 GHz P IF0 25 dB	SENSE:INT NO: Fast →→→ Trig: Fre	BO 5210MHz Align Auto #Avg ee Run Avg H	Emission Type: RMS lold: 100/100	08:46:08 TRA T 1 1 25.716	ACE 1 2 3 4 5 6 ACE 1 2 3 4 5 6 ACE P NNNNN DET P NNNNN
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Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.5150 Ref Offset 3: 0 dB/div Ref 20.00 0 0 0 0 0<	ept SA 2 AC 2000000 GHz P IF0 25 dB dBm	SENSE:INT NO: Fast ↔ Trig: Fre Sain:Low #Atten: :	30 5210MHz	Emission Type: RMS old: 100/100 Mkr	08:46:08 TRA T 1 25.716 3 -30.4 -30.4 58.00 ms (3	IPMAP17,203 GCI 12 3 4 5 6 (PE M MANNAN 228 GHZ I65 dBm 1 dbm 21 dbm 227.00 GHz
Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.5150 Ref Offset 3. 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	eptSA 2 AC 0000000 GHz P IFd 25 dB dBm	SENSE:INT NO: Fast ↔ Trig: Fre Sain:Low #Atten: :	BO 5210MHz	Emission Type: RMS old: 100/100 Mkr	08:46:08 TRA T 1 25.716 5 -30.4	IPMAP17,203 GCI 12 3 4 5 6 (PE M MANNAN 228 GHZ I65 dBm 1 dbm 21 dbm 227.00 GHz
Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.5150 Ref Offset 3. 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 MHz Res BW 1.0 MHz RR MODE TRC SCL	x	VO: Fast Sain:Low Trig: Fre #Atten: : #Atten: : #VBW 3.0 MH	30 5210MHz	Emission Type: RMS old: 100/100 Mkr	08:46:08 TRA T 1 25.716 3 -30.4 -30.4 58.00 ms (3	IPMAP17,203 GCI 12 3 4 5 6 (PE M MANNAN 228 GHZ I65 dBm 1 dbm 21 dbm 227.00 GHz
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