

TEST REPORT

Report No.:	BCTC2311921684E					
Applicant:	Shenzhen Anycubic Technology Co., Ltd					
Product Name:	3D Printer					
Model/Type Reference:	Photon Mono M5s Pro					
Tested Date:	2023-11-08 to 2023-11-23					
Issued Date:	2023-11-23					
She	enzhen BCTC Testing Co., Ltd.					
No.: BCTC/RF-EMC-005	Page: 1 of 78 Edition: B.0					



FCC ID:2AXYK-M5SPRO

Product Name:	3D Printer
Trademark:	ANYCUBIC
Model/Type Reference:	Photon Mono M5s Pro Anycubic Photon Mono M5s Pro, Mono M5s Pro, Anycubic Photon Mono M5s, Photon Mono M5s, Mono M5s, Anycubic Photon Mono M5, Photon Mono M5, Mono M5
Prepared For:	Shenzhen Anycubic Technology Co., Ltd
Address:	12-13th floor, Building #3B, Vanke Times Square, No.85 Longcheng Avenue, Longcheng Street, Longgang District, Shenzhen, Guangdong Province, China 518000
Manufacturer:	Shenzhen Anycubic Technology Co., Ltd
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Prepared By:	Shenzhen BCTC Testing Co., Ltd.
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Sample Received Date:	2023-11-08
Sample Tested Date:	2023-11-08 to 2023-11-23
Issue Date:	2023-11-23
Report No.:	BCTC2311921684E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is WIFI-2.4GHz band radio test report.

Tested by:

Chen ei

Lei Chen/Project Handler

Approved by:

Zero Zhou/Reviewer

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(Note: N/A Means Not Applicable)





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1. Version

Report No.	Issue Date	Description	Approved
BCTC2311921684E	2023-11-23	Original	Valid



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2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS



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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-200MHz)	U=4.60dB
2	3m chamber Radiated spurious emission(200MHz-1GHz)	U=5.20dB
3	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.70dB
4	3m chamber Radiated spurious emission(1GHz-6GHz)	U=5.20dB
5	3m chamber Radiated spurious emission(6GHz-18GHz)	U=5.50dB
7	Conducted Emission (9kHz-150kHz)	U=3.50dB
8	Conducted Emission (150kHz-30MHz)	U=3.10dB
9	Conducted Adjacent channel power	U=1.38dB
10	Conducted output power uncertainty Above 1G	U=1.576dB
11	Conducted output power uncertainty below 1G	U=1.28dB
12	humidity uncertainty	U=5.3%
13	Temperature uncertainty	U=0.59°C





4. Product Information And Test Setup

4.1 Product Information

Model/Type Reference:	Photon Mono M5s Pro Anycubic Photon Mono M5s Pro, Mono M5s Pro, Anycubic Photon Mono M5s, Photon Mono M5s, Mono M5s, Anycubic Photon Mono M5, Photon Mono M5, Mono M5
Model Differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz
Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 150Mbps
Type of Modulation:	WIFI: OFDM/DSSS
Number Of Channel:	802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH
Antenna installation:	FPC antenna
Antenna Gain:	2.04 dBi
Ratings:	DC 24V from adapter
Adapter:	MODEL: TDX-2405000 INPUT: 100-240V~50/60Hz 2.0A OUTPUT:24.0V ===5.0A 120.0W
Remark:	The antenna gain of the product is provided by the customer, and the test data is affected by the customer information

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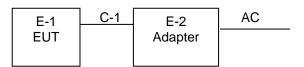
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4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	3D Printer	ANYCUBIC	Photon Mono M5s Pro	Ref. the Section 4.1	EUT
E-2	Adapter	N/A	TDX-2405000	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.5M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 Channel List

	Channel List for 802.11b/g/n(20)						
Channel Frequency Channel Frequency Channel Frequency (MHz)							
01	2412	02	2417	03	2422		
04	2427	05	2432	06	2437		
07	2442	08	2447	09	2452		
10	2457	11	2462				

Channel List for 802.11n(40)							
Channel Frequency Channel Frequency (MHz) Channel Frequency (MHz)							
03	2422	04	2427	05	2432		
06	2437	07	2442	08	2447		
09	2452						

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For All Mode	Description	Modulation Type
Mode 1	CH 01	
Mode 2	CH 06	802.11b
Mode 3	CH 11	
Mode 4	CH 01	
Mode 5	CH 06	802.11g
Mode 6	CH 11	
Mode 7	CH 01	N N N N N N N N N N
Mode 8	CH 06	802.11n20
Mode 9	CH 11	$\mathbb{N} \times \mathbb{N} \times \mathbb{N} = \mathbb{H} = \mathbb{H} \times \mathbb{H}$
Mode 10	CH 03	. N N N N N H H H H / / / /
Mode 11	CH 06	802.11n40
Mode 12	CH 09	NNNNNN 1111/772
Mode 13	Link mode (Conducted Emi	ission & Radiated emission)

Notes:

1. The measurements are performed at the highest, middle, lowest available channels.

2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

3. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 11Mbps for 802.11b,6Mbps for 802.11g,13Mbps for 802.11n(H20), 54Mbps for 802.11n(H40)

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4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	QATool			
Frequency	2412 MHz	2437 MHz	2462 MHz	
Parameters	DEF	DEF	DEF	
Frequency	2422MHz	2437MHz	2452MHz	
Parameters	DEF	DEF	DEF	

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5. **Test Facility And Test Instrument Used**

5.1 **Test Facility**

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850 FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024		
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024		
Software	Frad	EZ-EMC	EMC-CON 3A1	/	١		
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept. 21, 2024		

	RF Conducted Test							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.			
Power Metter	Keysight	E4419		May 15, 2023	May 14, 2024			
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024			
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024			
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024			
Radio frequency control box	MAIWEI	MW100-RFC B	· · · · · · · · · · · · · · · · · · ·					
Software	MAIWEI	MTS 8310						



Radiated Emissions Test (966 Chamber01)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026	
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024	
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024	
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024	
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024	
Software	Frad	EZ-EMC	FA-03A2 RE	\	\	

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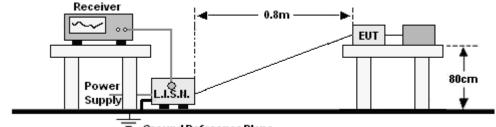
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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



Ground Reference Plane

6.2 Limit

	Limit (d	Limit (dBuV)		
Frequency (MHz)	Quas-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Setting
10 dB
0.15 MHz
30 MHz
9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

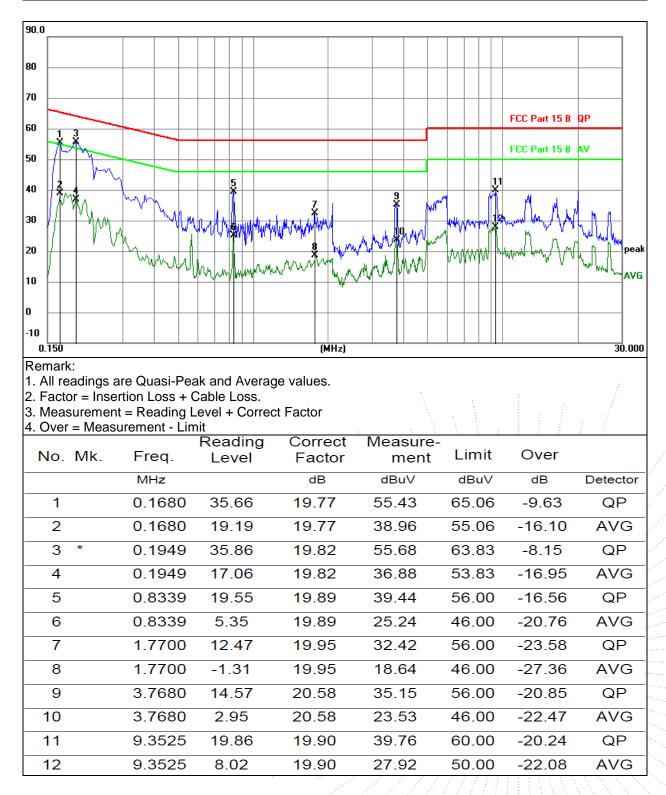
6.4 EUT operating Conditions

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.



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 13	Test Voltage :	AC 120V/60Hz



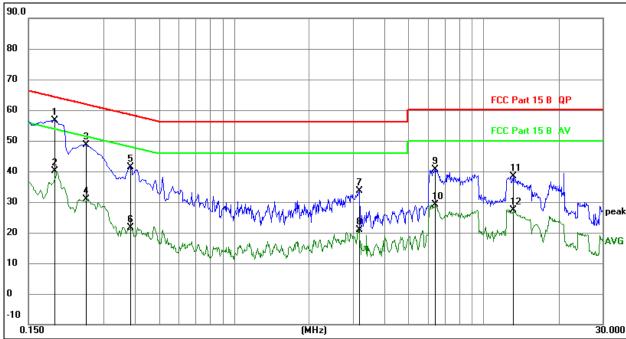
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Ν



Remark:

	1. All readings are Quasi-Peak and Average values.						
	2. Factor = Insertion Loss + Cable Loss.						
		t = Reading L					
4. Over	r = Meas	urement - Lim	nit				
			Reading	Correct	Measure-		
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over
		MHz		dB	dBuV	dBuV	dB
1	*	0.1904	36.86	19.81	56. <mark>6</mark> 7	64.02	-7.35
2		0.1904	20.23	19.81	40.04	54.02	-13.98
3		0.2535	28.78	19.83	48.61	61.64	-13.03
4		0.2535	11.16	19.83	30.99	51.64	-20.65
5		0.3832	21.64	19.84	41.48	58.21	-16.73
6		0.3832	1.90	19.84	21.74	48.21	-26.47
7		3.1731	13.30	20.37	33.67	56.00	-22.33
8		3.1731	0.57	20.37	20.94	46.00	-25.06
9		6.3859	20.54	20.10	40.64	60.00	-19.36
10		6.3859	9.07	20.10	29.17	50.00	-20.83
11		13.1269	18.45	19.88	38.33	60.00	-21.67
12		13.1269	7.40	19.88	27.28	50.00	-22.72

Detector

QP

AVG

QP

AVG

QP

AVG

QP

AVG

QP

AVG

QP

AVG

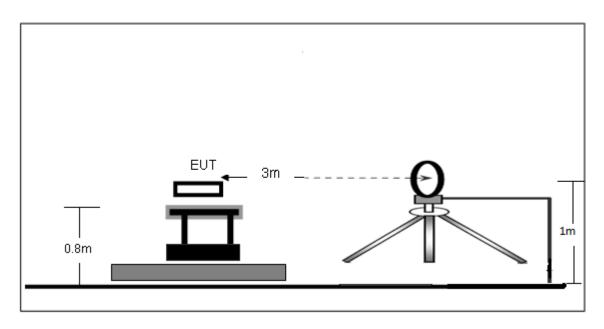
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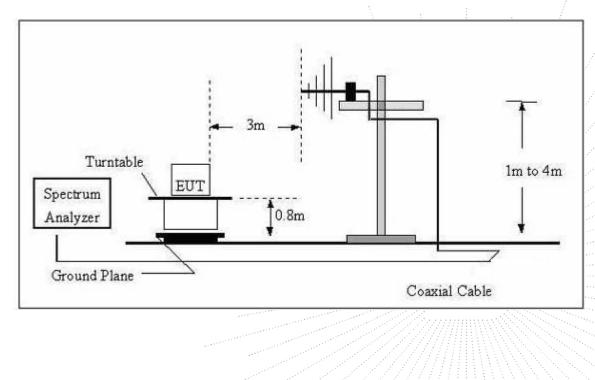
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz

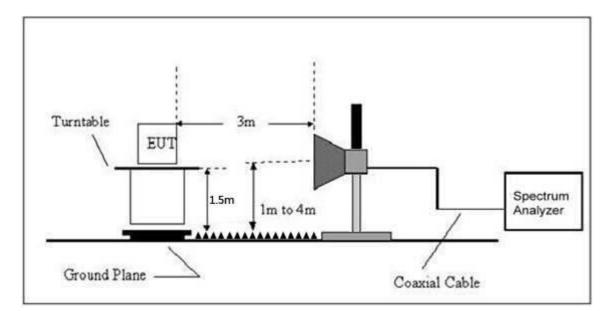


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3 .	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m) (at 3M)	a a construction and a construction of the second
Frequency (MHz)	Peak	erage
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak,
	RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 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.

7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%	, D			
Pressure:	101KPa	Test Voltage:	AC	120V/	60Hz	1	
Test Mode:	Mode 13	Polarization:					2

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
		1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 		PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

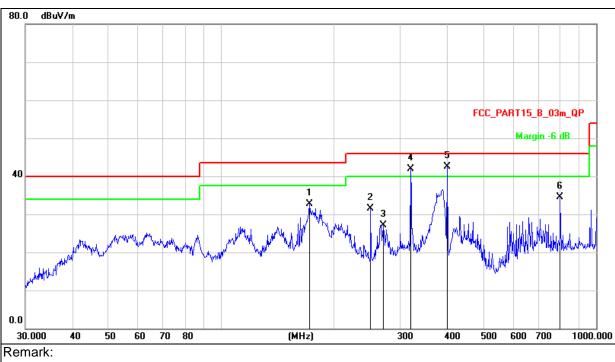
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



Between 30MHz – 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 13	Test Voltage:	AC 120V/60Hz



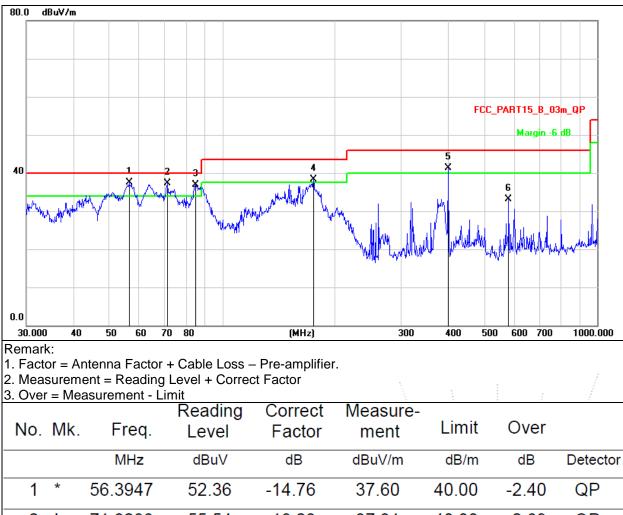
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 Measurement = Reading Level + Correct Factor

3. Over	= Me	asurement - Li	mit					
			Reading	Correct	Measure-			
No.	Mk	. Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		171.9946	50.45	-17.80	32.65	43.50	-10.85	QP
2		250.3012	45.86	-14.28	31.58	46.00	-14.42	QP
3		270.3748	41.01	-13.86	27.15	46.00	-18.85	QP
4	İ	319.9370	54.43	-12.54	41.89	46.00	-4.11	QP
5	*	400.4319	53.33	-10.83	42.50	46.00	-3.50	QP
6		801.7863	38.93	-4.38	34.55	46.00	-11.45	QP





Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Vertical



3. Ov	er =	Mea	asurement - L						1
No). N	/k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detect
1	*		56.3947	52.36	-14.76	37.60	40.00	-2.40	QP
2	<u>2</u>		71.3298	55.54	-18.23	37.31	40.00	-2.69	QP
3	3 !		84.7018	55.59	-18.64	36.95	40.00	-3.05	QP
4	1 I	1	75.0365	55.92	-17.57	38.35	43.50	-5.15	QP
5	5 !	4	100.4318	52.09	-10.83	41.26	46.00	-4.74	QP
6	6	Ę	580.7024	41.40	-8.32	33.08	46.00	-12.92	QP
									· · · · · · · · · · · · · · · · · · ·



Between 1GHz – 25GHz

			802.11g				
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lo	ow channel:24	412MHz			
V	4824.00	71.09	-19.99	51.10	74.00	-22.90	PK
V	4824.00	60.58	-19.99	40.59	54.00	-13.41	AV
V	7236.00	63.46	-14.22	49.24	74.00	-24.76	PK
V	7236.00	52.67	-14.22	38.45	54.00	-15.55	AV
Н	4824.00	68.62	-19.99	48.63	74.00	-25.37	PK
Н	4824.00	57.88	-19.99	37.89	54.00	-16.11	AV
Н	7236.00	62.11	-14.22	47.89	74.00	-26.11	PK
Н	7236.00	55.01	-14.22	40.79	54.00	-13.21	AV
		Mic	dle channel:	2437MHz			
V	4874.00	68.96	-19.84	49.12	74.00	-24.88	PK
V	4874.00	62.68	-19.84	42.84	54.00	-11.16	AV
V	7311.00	59.63	-13.90	45.73	74.00	-28.27	PK
V	7311.00	49.86	-13.90	35.96	54.00	-18.04	AV
Н	4874.00	67.65	-19.84	47.81	74.00	-26.19	PK
Н	4874.00	57.36	-19.84	37.52	54.00	-16.48	AV
Н	7311.00	58.01	-13.90	44.11	74.00	-29.89	PK
Н	7311.00	50.73	-13.90	36.83	54.00	-17.17	AV
		Hi	gh channel:2	462MHz			
V	4924.00	71.66	-19.68	51.98	74.00	-22.02	PK
V	4924.00	60.98	-19.68	41.30	54.00	-12.70	AV
V	7386.00	64.94	-13.57	51.37	74.00	-22.63	PK
V	7386.00	54.72	-13.57	41.15	54.00	-12.85	AV
Н	4924.00	69.53	-19.68	49.85	74.00	-24.15	PK
Н	4924.00	58.78	-19.68	39.10	54.00	-14.90	AV
Н	7386.00	63.02	-13.57	49.45	74.00	-24.55	PK
Н	7386.00	55.69	-13.57	42.12	54.00	-11.88	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

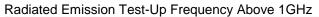
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

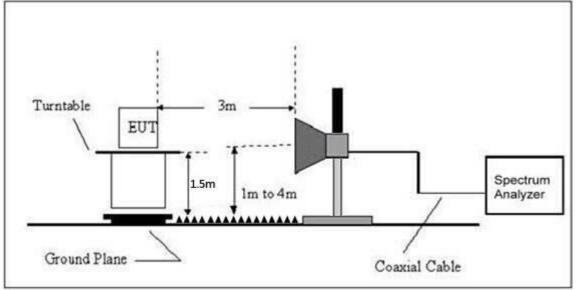
5.All the Modulation are test, the worst mode is 802.11g, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup





8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)		
Frequency (MHz)	Peak	Average	
Above 1000	74	54	

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 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.



8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result
					PK	PK	AV	
			Lo	w Channel 2	412MHz			
	Н	2390.00	73.81	-25.43	48.38	74.00	54.00	PASS
	Н	2400.00	74.86	-25.40	49.46	74.00	54.00	PASS
	V	2390.00	73.89	-25.43	48.46	74.00	54.00	PASS
002 44h	V	2400.00	73.81	-25.40	48.41	74.00	54.00	PASS
802.11b	High Channel 2462MHz							
	Н	2483.50	72.73	-25.15	47.58	74.00	54.00	PASS
	Н	2485.00	68.98	-25.10	43.88	74.00	54.00	PASS
	V	2483.50	72.39	-25.15	47.24	74.00	54.00	PASS
	V	2485.00	67.57	-25.10	42.47	74.00	54.00	PASS
	Low Channel 2412MHz							
	Н	2390.00	73.41	-25.43	47.98	74.00	54.00	PASS
	Н	2400.00	76.13	-25.40	50.73	74.00	54.00	PASS
	V	2390.00	73.70	-25.43	48.27	74.00	54.00	PASS
802.11g	V	2400.00	74.55	-25.40	49.15	74.00	54.00	PASS
802.TTg	High Channel 2462MHz							
	Н	2483.50	71.68	-25.15	46.53	74.00	54.00	PASS
	Н	2485.00	69.90	-25.10	44.80	74.00	54.00	PASS
	V	2483.50	72.53	-25.15	47.38	74.00	54.00	PASS
	V	2485.00	67.81	-25.10	42.71	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level – Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. 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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Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result
					РК	РК	AV	
		L	Lov	w Channel 2	412MHz			
	Н	2390.00	73.69	-25.43	48.26	74.00	54.00	PASS
	Н	2400.00	74.97	-25.40	49.57	74.00	54.00	PASS
	V	2390.00	73.88	-25.43	48.45	74.00	54.00	PASS
000 44-00	V	2400.00	75.51	-25.40	50.11	74.00	54.00	PASS
802.11n20	High Channel 2462MHz							
	Н	2483.50	72.09	-25.15	46.94	74.00	54.00	PASS
	Н	2500.00	68.84	-25.10	43.74	74.00	54.00	PASS
	V	2483.50	72.47	-25.15	47.32	74.00	54.00	PASS
	V	2500.00	67.56	-25.10	42.46	74.00	54.00	PASS
	Low Channel 2422MHz							
	Н	2390.00	72.11	-25.43	46.68	74.00	54.00	PASS
	Н	2400.00	74.27	-25.40	48.87	74.00	54.00	PASS
	V	2390.00	72.30	-25.43	46.87	74.00	54.00	PASS
802.11n40	V	2400.00	73.28	-25.40	47.88	74.00	54.00	PASS
002.111140	High Channel 2452MHz							
	Н	2483.50	72.29	-25.15	47.14	74.00	54.00	PASS
	Н	2500.00	67.85	-25.10	42.75	74.00	54.00	PASS
	V	2483.50	71.00	-25.15	45.85	74.00	54.00	PASS
	V	2500.00	67.59	-25.10	42.49	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. 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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9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS			

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.

10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss



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9.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz

Test Mode	Frequency	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
TX b Mode	2412 MHz	-0.35	-5.58	8	PASS
	2437 MHz	0.36	-4.87	8	PASS
	2462 MHz	2.09	-3.14	8	PASS
	2412 MHz	-10.91	-16.14	8	PASS
TX g Mode	2437 MHz	-10.54	-15.77	8	PASS
	2462 MHz	-8.31	-13.54	8	PASS
	2412 MHz	-10.37	-15.60	8	PASS
TX n Mode(20M)	2437 MHz	-10.15	-15.38	8	PASS
	2462 MHz	-8.21	-13.44	8	PASS
TX n Mode(40M)	2422 MHz	-12.19	-17.42	8	PASS
	2437 MHz	-10.58	-15.81	8	PASS
	2452 MHz	-11.79	-17.02	8	PASS
Note: Correctio	n Factor = 10k	og(3KHz/RBW in measu	urement) =-5.23		

Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23 Power Spectral Density (dBm/3kHz= Power Spectral Density (dBm/10kHz)-5.23

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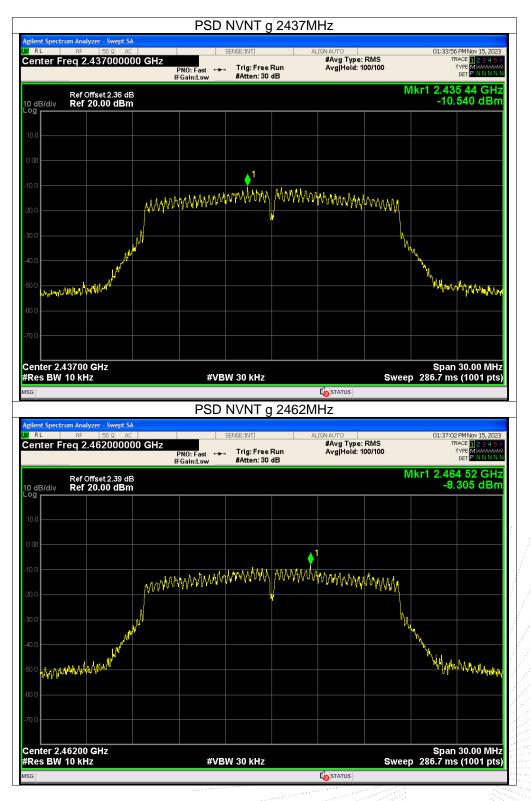






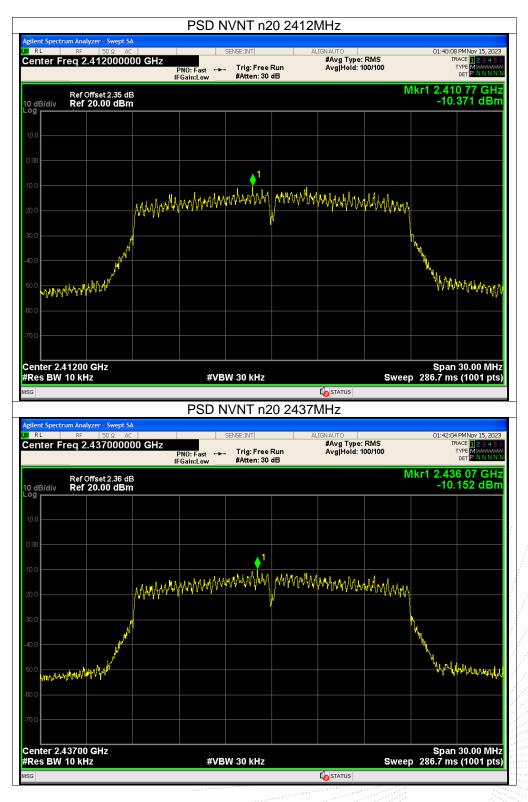








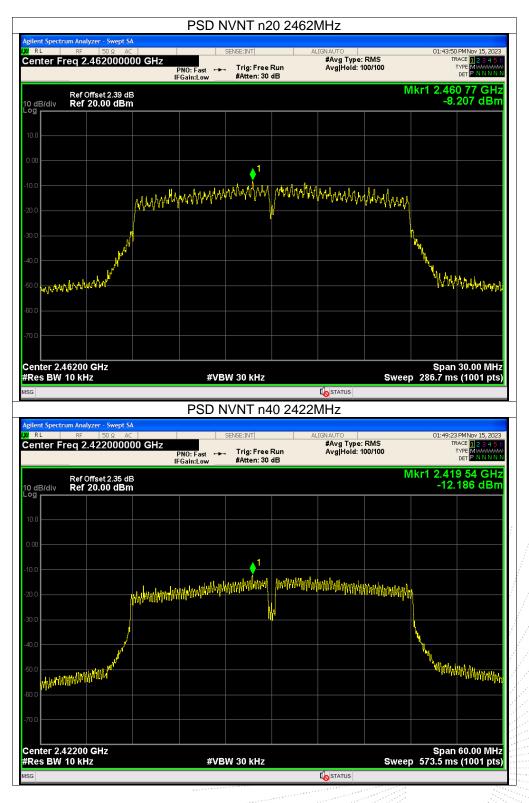








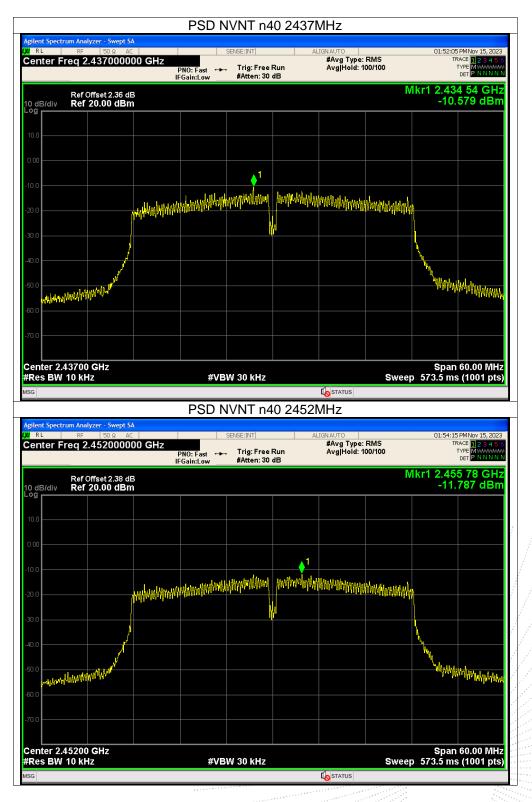
















10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (-6dB bandwidth)	2400-2483.5	PASS		

10.3 Test procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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10.5 Test Result

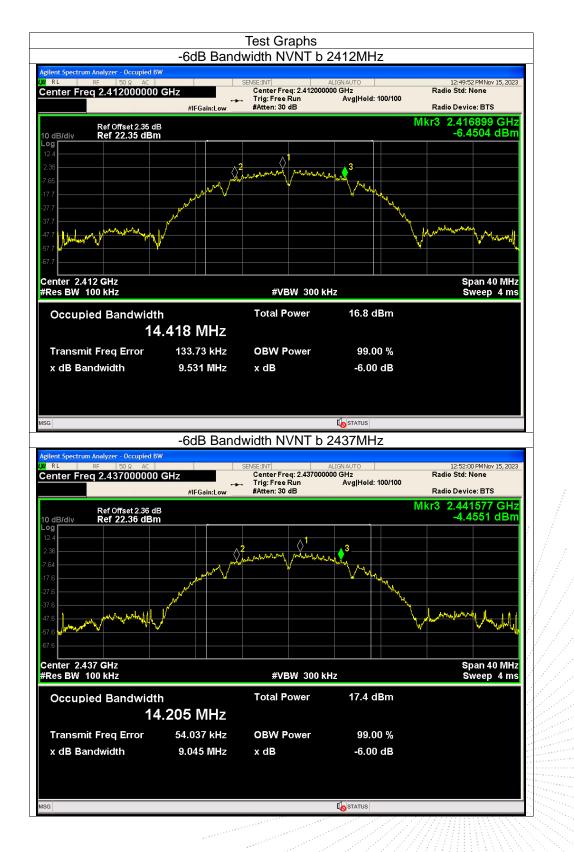
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz

Test Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
	2412	9.531	500	Pass
TX b Mode	2437	9.045	500	Pass
	2462	9.519	500	Pass
	2412	15.078	500	Pass
TX g Mode	2437	16.027	500	Pass
	2462	15.060	500	Pass
	2412	17.333	500	Pass
TX n Mode(20M)	2437	17.150	500	Pass
	2462	15.023	500	Pass
	2422	33.852	500	Pass
TX n Mode(40M)	2437	35.083	500	Pass
	2452	35.072	500	Pass

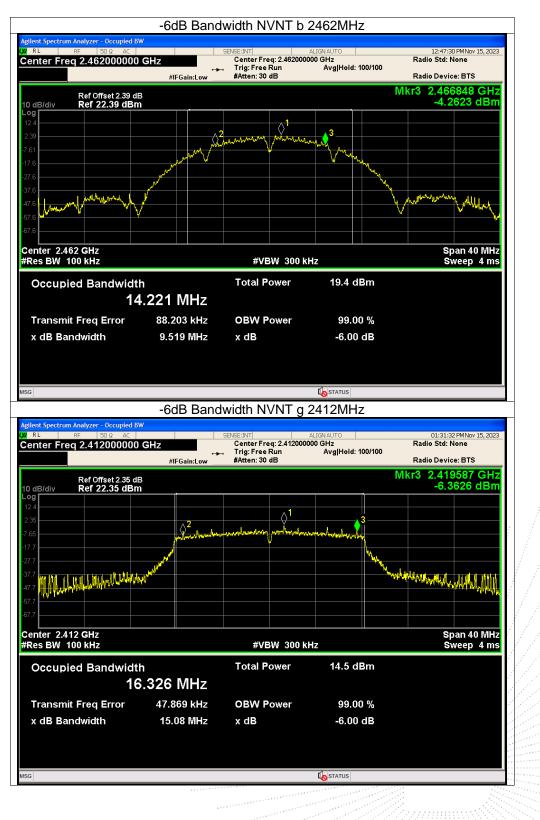










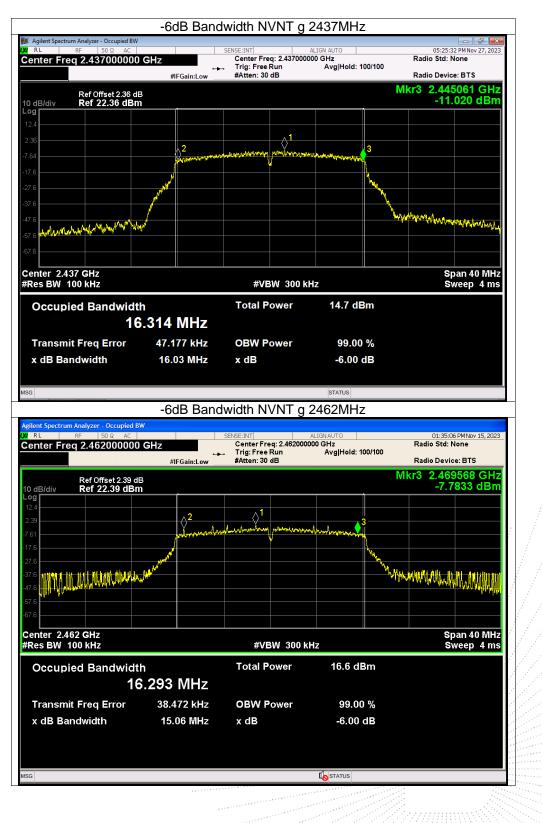


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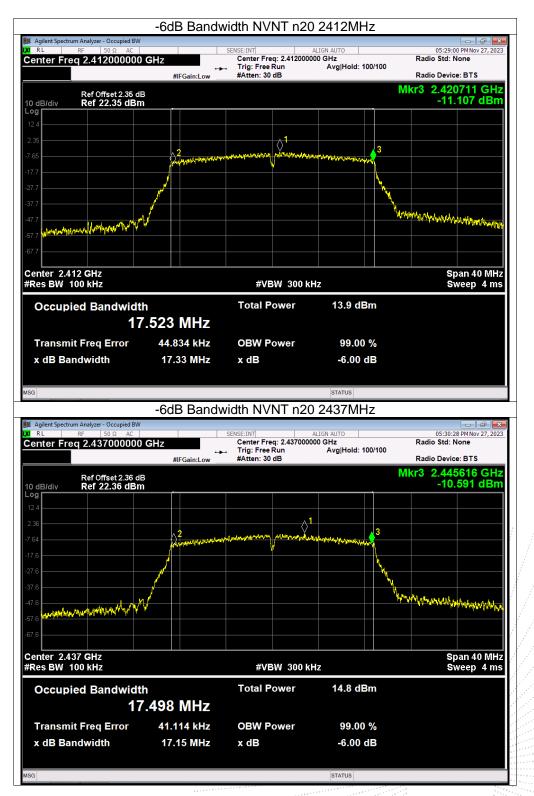






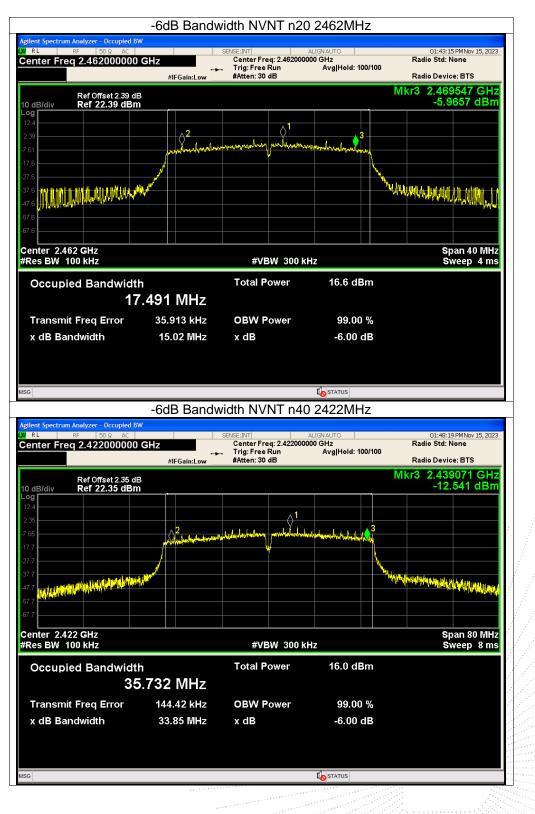




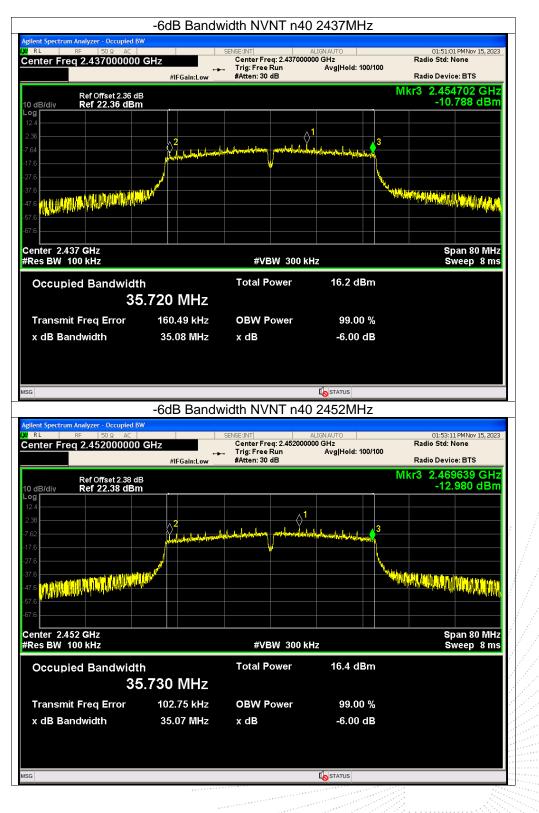














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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

		FCC Part15 (15.247),	Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz

Test Mode	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Limit (dBm)
	2412	10.05	30
802.11b	2437	10.92	30
	2462	12.65	30
	2412	8.16	30
802.11g	2437	8.30	30
	2462	10.36	30
	2412	7.78	30
802.11n20	2437	8.32	30
	2462	10.22	30
	2422	8.75	30
802.11n40	2437	8.97	30
	2452	9.24	30







12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

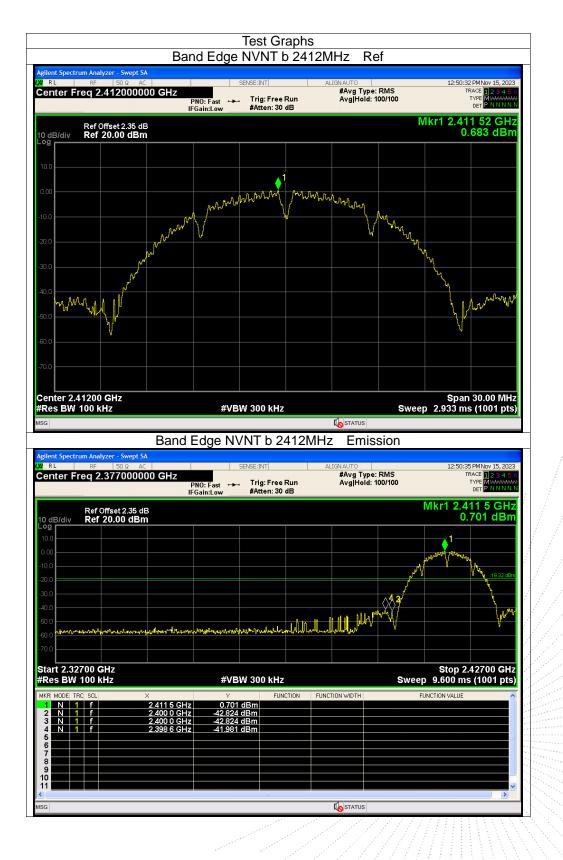


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12.5 Test Result



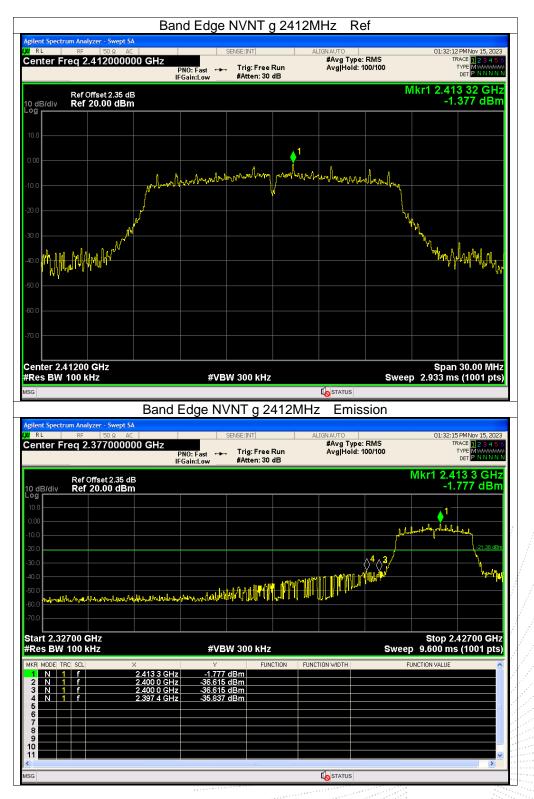






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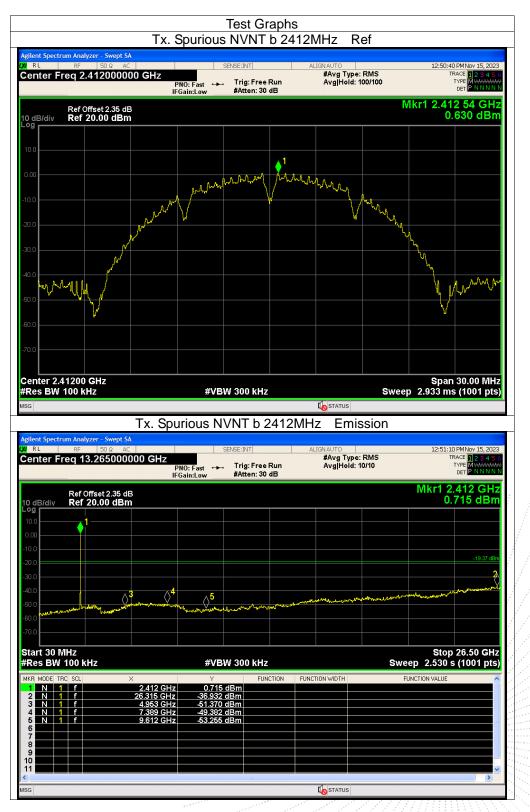




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Conducted Emission Measurement



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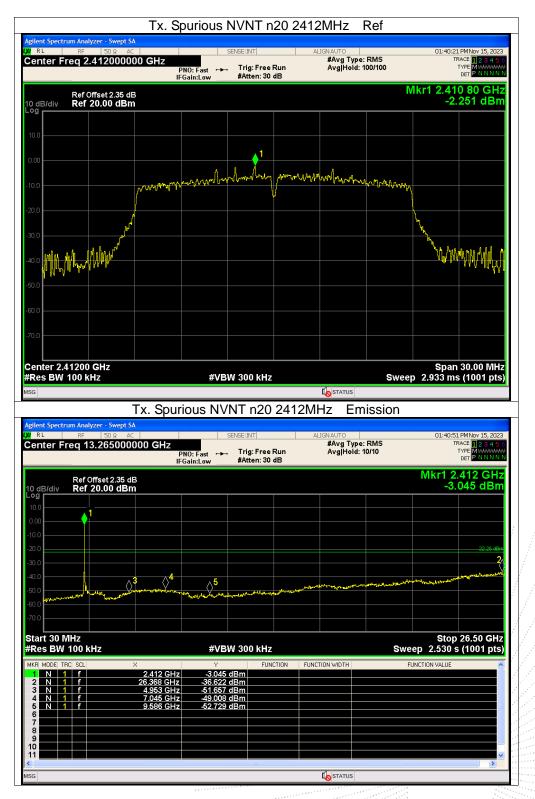






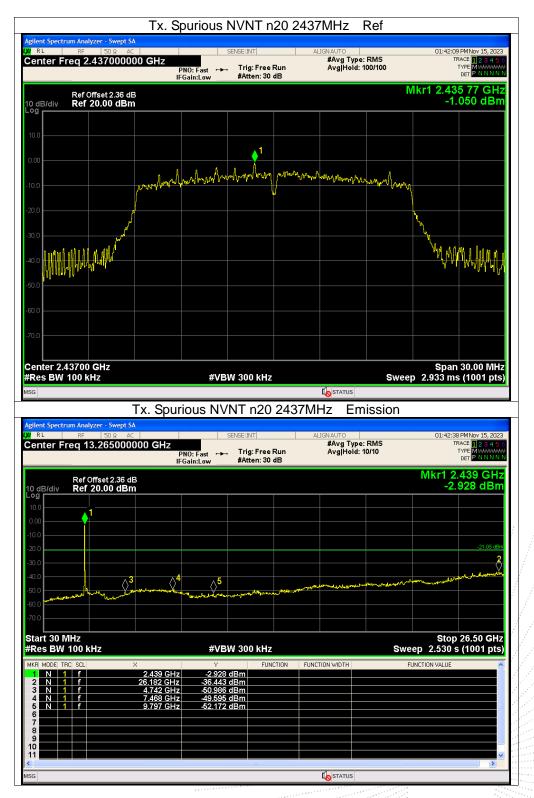










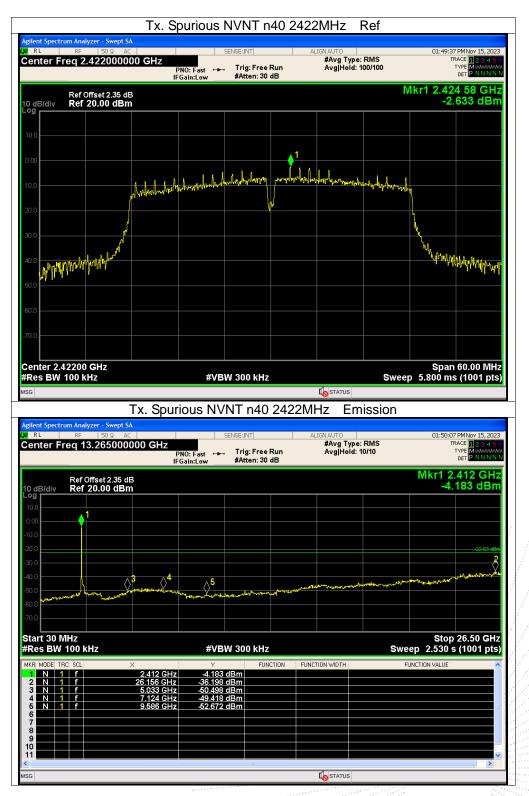








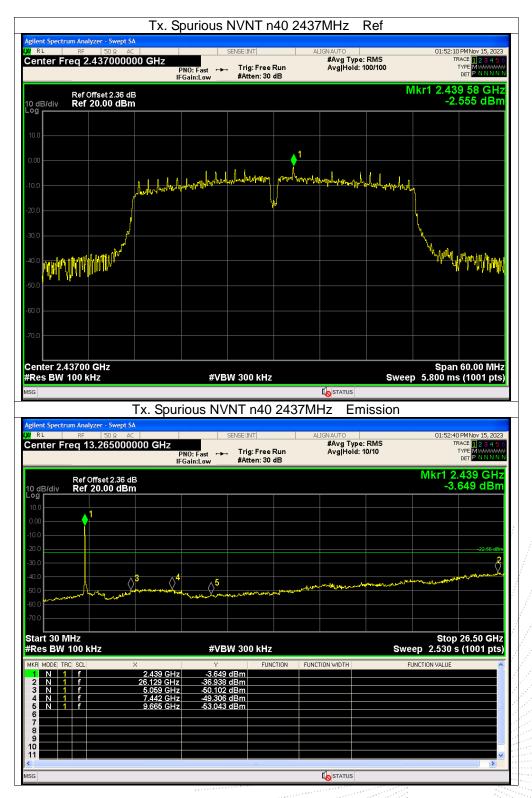






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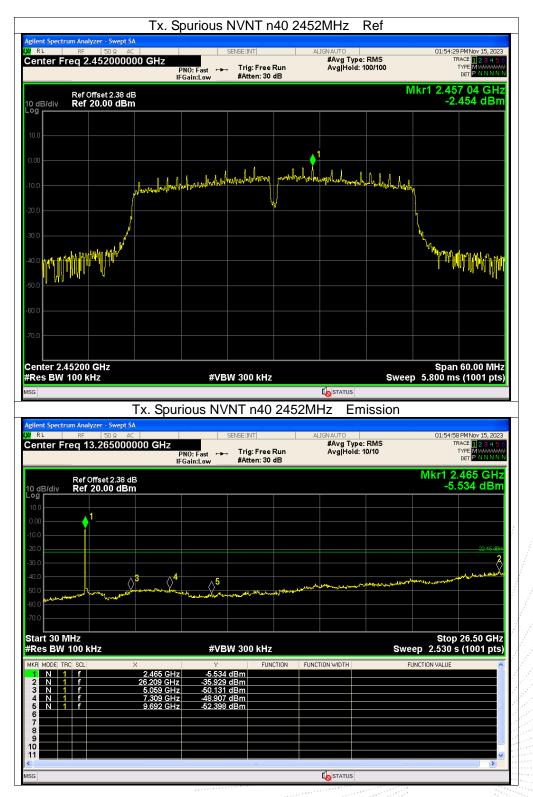




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13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

- 1.Set span = Zero
- 2. RBW = 10MHz
- 3. VBW = 10MHz,
- 4. Detector = Peak

13.4 Test Result

	· · · · · · · · · · · · · · · · · · ·	
Test mode	Duty Cycle	Duty Fator (dB)
	100	0
802.11b	100	0
	100	0
	100	0
802.11g	100	0
	100	0
	100	0
802.11n(HT20)	100	0
	100	0
	100	0
802.11n(HT40)	100	0
	100	0

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Agilent Spectrum Analyzer - Swept SA		cle NVNT b		
RL RF 50 Ω AC enter Freq 2.412000000		SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:26:10 AM Nov 16, 202 TRACE 1 2 3 4 5
	PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 30 dB		TYPE WWWWWW DET P N N N N
Ref Offset 2.35 dB				Mkr1 50.00 ms 9.70 dBm
dB/div Ref 20.00 dBm		≬1		3.70 dbi
0.0				
0.0				
0.0				
0.0				
0.0				
0.0				
enter 2.412000000 GHz				Span 0 Hz
es BW 8 MHz	#VE	SW 8.0 MHz	5	Sweep 100.0 ms (10001 pts
KR MODE TRC SCL X	50.00 ms 9.70	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
2 3				
4 5				=
6				
9				
0				-
G		III		•
			STATUS	
-	Duty Cv	cle NVNT b	status 2437MHz	
Agilent Spectrum Analyzer - Swept SA	Duty Cy	cle NVNT b	2437MHz	
	GHz	SENSE:INT		09:25:11 AM Nov 16, 202 TRACE 12, 3, 4, 5
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC		SENSE:INT	2437MHz	09:25:11 AM Nov 16, 202
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB	GHz PNO: Fast ↔	SENSE:INT	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB 0 dB/div Ref 20.00 dBm	GHz PNO: Fast ↔	SENSE:INT	2437MHz	09:25:11 AM Nov 16, 202 TRACE 2 3 4 5 TYPE WWWWW DET P N N N
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB Ref 20.00 dBm 0 dB/div Ref 20.00 dBm O	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB B dB/div Ref 20.00 dBm G 00 00 00 00	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB Ref 20.00 dBm 0 dB/div Ref 20.00 dBm O	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB D dB/div Ref 20.00 dBm 00 0 0	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 P D dB/div Ref Offset 2.36 dB 00 P P 00 P P 00 P P	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 P B BF/div Ref Offset 2.36 dB B B/div Ref 20.00 dBm 00 0 0 00 0 0 00 0 0 00 0 0	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 P D dB/div Ref Offset 2.36 dB 00 P P	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB dB/div Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GHz PNO: Fast ↔	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM NOV 16, 202 TRACE 1 2 3 4 3 TYPE DET P NNNN Mkr1 50.00 ms 9.10 dBm
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 P P B B dB/div Ref Offset 2.36 dB C Ref 20.00 dBm P C P	GHz PNO: Fast IFGain:Low	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM Nov 16, 202 TRACE 12 34 5 TYPE DET PNNNN DET PNNNN Mkr1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 GB/ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GHz PNO: Fast IFGain:Low →	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM NOV 16, 202 TRACE 12 2 3 4 5 TYPE DET PNNNN Mkr1 50.00 ms 9.10 dBm
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB B C B 0 dB/div Ref Offset 2.36 dB R C	GHz PNO: Fast IFGain:Low →	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM NOV 16, 202 TRACE 12 3 4 5 TYPE WINNIN Mkr1 50.00 ms 9.10 dBm 9.10 dBm Span 0 Hz Sweep 100.0 ms (10001 pts
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB Ref 20.00 dBm AC 0 dB/div Ref 20.00 dBm 0	GHz PNO: Fast IFGain:Low →	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM NOV 16, 202 TRACE 12 3 4 5 TYPE WINNIN Mkr1 50.00 ms 9.10 dBm 9.10 dBm Span 0 Hz Sweep 100.0 ms (10001 pts
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 0 dB/div Ref 20.00 dBm 0 dB/div Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GHz PNO: Fast IFGain:Low →	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM NOV 16, 202 TRACE 12 3 4 5 TYPE WINNIN Mkr1 50.00 ms 9.10 dBm 9.10 dBm Span 0 Hz Sweep 100.0 ms (10001 pts
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.36 dB B B B B C A C A C A C A C A C A C <thc< th=""> <thc< th=""> C <thc< th=""></thc<></thc<></thc<>	GHz PNO: Fast IFGain:Low →	SENSE:INT - Trig: Free Run #Atten: 30 dB	2437MHz	09:25:11 AM NOV 16, 202 TRACE 12 3 4 5 TYPE WINNIN Mkr1 50.00 ms 9.10 dBm 9.10 dBm Span 0 Hz Sweep 100.0 ms (10001 pts