

FCC RADIO TEST REPORT FCC ID: 2ACPN-NVW101S

Product: MID

Trade Name: NuVISION

Model Name: NVW101S

Serial Model: NVW101S XY

Report No.: NTEK-2014NT0703046F1

Prepared for

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TEST RESULT CERTIFICATION

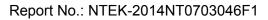
Report No.: NTEK-2014NT0703046F1

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Product description	province,China	1		
Product name	. MID			
Model and/or type reference	NVW101S			
Serial Model	. NVW101S XY			
Standards	FCC Part15.24	17 01 Oct. 201	3	
Test procedure	. ANSI C63.4-20	003		
	UT) is in compli	iance with the F	c, and the test results show CC requirements. And it is	
•	•	•	ut the written approval of al only, and shall be noted	
Date of Test				
Date (s) of performance			ul. 2014	
Date of Issue	14	Jul. 2014		
Test Result	Pas	ss		
Testino	g Engineer	:	kyle Xu	
	, ,		(Kyle Xu)	-
Techni	cal Manager	:	Brown Ln	_
Author	rized Signatory	:	(Brown Lu) - (Bill Yao)	_



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)	Peak Output Power	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.247 (d)	Power Spectral Density	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	MID		
Trade Name	NūVision		
Model Name	NVW101S		
Serial Model	NVW101S XY		
Model Difference	All the model are the except the model nan	same circuit and RF module, ne and colour.	
Product Description	The EUT is a MID Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna Designation: Output Power(Conducted): Antenna Gain (dBi) Crystal oscillator Based on the applica User's Manual, the Electrical	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz CCK/OFDM/DBPSK/DAPSK 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz/40MHz):150/144.44/1 30/117/115.56/104/86.67/78/52/6.5Mb ps 802.11b/g/n20MHz:11CH 802.11n40MHz:7CH Please see Note 3. 802.11g: 11.63 dBm (Max.) 802.11g: 11.63 dBm (Max.) 802.11n(20M): 10.31 dBm (Max.) 802.11n(40M): 9.92dBm (Max.) 1.0 dbi 26MHz; 32.768kHz tion, features, or specification exhibited in UT is considered as an ITE/Computing of EUT technical specification, please	
Channel List	Please refer to the Note 2.		
Ratings	DC 3.7V		
Adapter	MODEL:MSP-C2000IC 9.0-18W-US Input: 100-240V~50/60 Hz 0.7A Output: 9.0V==-, 2A		
Battery	DC 3.7V,3950mAh		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

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

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		Chan	nel List for	802.11n(40	MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	80	2447				

3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	FPCBAntenna	N/A	1.0	Wifi Antenna



2.2 DESCRIPTION OF TEST MODES

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.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n/20MHz CH1/ CH6/ CH11
Mode 4	802.11n/40MHz CH3/ CH6/ CH9
Mode 5	Link Mode

	For Conducted Emission
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission					
Final Test Mode	Description				
Mode 1	802.11b CH1/ CH6/ CH11				
Mode 2	802.11g CH1/ CH6/ CH11				
Mode 3	802.11n/20MHz CH1/ CH6/ CH11				
Mode 4	802.11n/40MHz CH3/ CH6/ CH9				

Note:

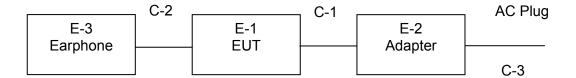
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) EUT configured to transmit continuously:

Operated Mode for Worst Duty Cycle					
Test Signal Duty Cycle (x) Average correction factor (dB)					
100% - IEEE 802.11b 0					
100% - IEEE 802.11g	0				
100% - IEEE 802.11n (HT20) ₀					
100% - IEEE 802.11n (HT40)	0				



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	MID	N/A	NVW101S	N/A	EUT
E-2	Adapter	N/A	MSP-C2000IC9.0-18W-US	N/A	
E-3	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	0.8m	
C-3	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

D 11 11			
Dadiation	I O C t	กลเแทพก	nt
Radiation	1621	cuululle	

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2014.07.06	2015.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	n period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year
7	Test Cable	N/A	C01	N/A	2014.06.08	2015.06.07	1 year
8	Test Cable	N/A	C02	N/A	2014.06.08	2015.06.07	1 year
9	Test Cable	N/A	C03	N/A	2014.06.08	2015.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 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.



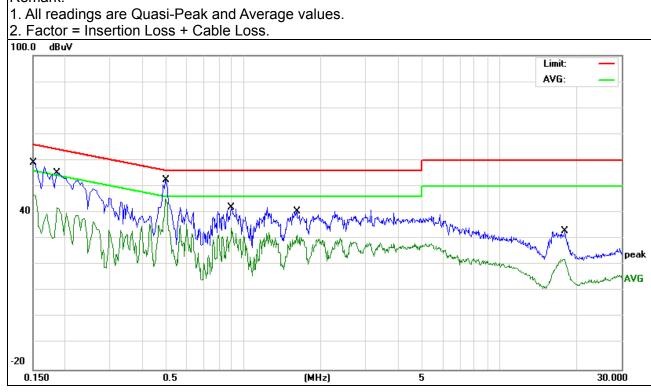
3.1.6 TEST RESULTS

EUT:	MID	Model Name. :	NVW101S
Temperature:	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
TEST VOIDAGE .	DC 9.0V form Adapter AC 120V/60Hz	Test Mode:	Mode 5

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Type
0.1500	49.46	9.63	59.09	66.00	-6.91	QP
0.1500	37.08	9.63	46.71	56.00	-9.29	AVG
0.1860	45.72	9.53	55.25	64.21	-8.96	QP
0.1860	32.36	9.53	41.89	54.21	-12.32	AVG
0.4940	42.88	9.51	52.39	56.10	-3.71	QP
0.4940	35.87	9.51	45.38	46.10	-0.72	AVG
0.8980	32.46	9.53	41.99	56.00	-14.01	QP
0.8980	24.52	9.53	34.05	46.00	-11.95	AVG
1.6140	30.91	9.54	40.45	56.00	-15.55	QP
1.6140	21.85	9.54	31.39	46.00	-14.61	AVG
18.0019	22.71	10.11	32.82	60.00	-27.18	QP
18.0019	12.02	10.11	22.13	50.00	-27.87	AVG

Remark:



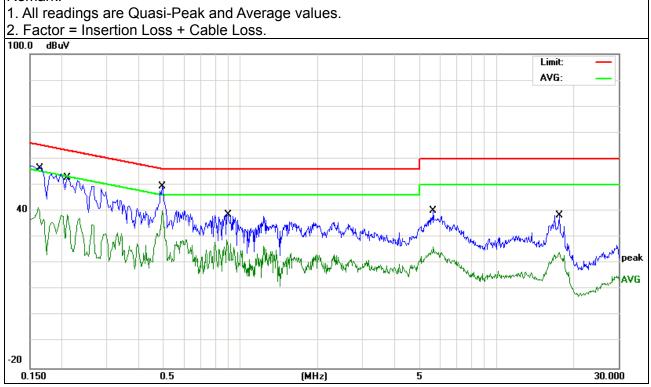


		-	
EUT:	MID	Model Name. :	NVW101S
Temperature :	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
TIEST VOIDAGE .	DC 9.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Туре
0.1620	46.52	9.60	56.12	65.36	-9.24	QP
0.1620	31.66	9.60	41.26	55.36	-14.10	AVG
0.2100	43.31	9.49	52.80	63.20	-10.40	QP
0.2100	29.13	9.49	38.62	53.20	-14.58	AVG
0.4940	39.80	9.51	49.31	56.10	-6.79	QP
0.4940	30.61	9.51	40.12	46.10	-5.98	AVG
0.8820	28.98	9.53	38.51	56.00	-17.49	QP
0.8820	19.56	9.53	29.09	46.00	-16.91	AVG
5.6579	30.47	9.63	40.10	60.00	-19.90	QP
5.6579	16.57	9.63	26.20	50.00	-23.80	AVG
17.6259	28.26	10.08	38.34	60.00	-21.66	QP
17.6259	14.14	10.08	24.22	50.00	-25.78	AVG

Remark:





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	dBuV/m) (at 3M) Class B (dBuV/m) (at 3		
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	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).

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted	4 Mile / 4 Mile for Dook 4 Mile / 40//e for Average	
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

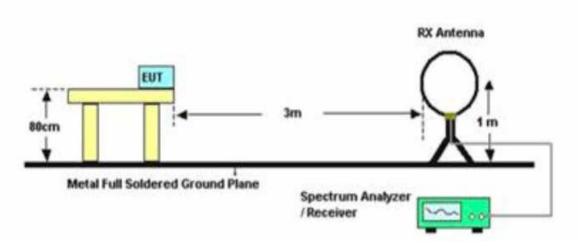
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

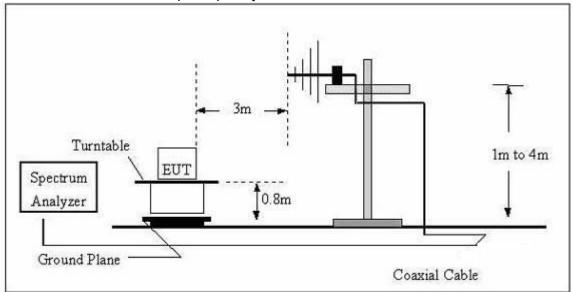


3.2.4 TEST SETUP

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



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









3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	MID	Model Name. :	NVW101S
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2014NT0703046F1

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				Р
				Р

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.



3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT:	MID	Model Name :	NVW101S
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 802.11b		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
	Below 1G						
50.2324	28.06	8.15	36.21	40.00	-3.79	QP	Vertical
130.3789	11.80	12.20	24.00	43.50	-19.50	QP	Vertical
315.4808	13.36	15.26	28.62	46.00	-17.38	QP	Vertical
360.4476	17.05	16.46	33.51	46.00	-12.49	QP	Vertical
434.0651	21.88	18.84	40.72	46.00	-5.28	QP	Vertical
721.7259	9.63	25.59	35.22	46.00	-10.78	QP	Vertical
50.5860	13.38	7.99	21.37	40.00	-18.63	QP	Horizontal
175.6516	16.43	10.08	26.51	43.50	-16.99	QP	Horizontal
242.5253	14.67	12.16	26.83	46.00	-19.17	QP	Horizontal
360.4476	26.03	16.46	42.49	46.00	-3.51	QP	Horizontal
576.6443	11.48	22.44	33.92	46.00	-12.08	QP	Horizontal
721.7259	11.97	25.59	37.56	46.00	-8.44	QP	Horizontal



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	MID	Model Name :	NVW101S
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX-B		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect	Commont	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	or Type	Comment	
	Low Channel (2412 MHz)							
4824.000	47.15	10.44	57.59	74.0	-16.41	Pk	Vertical	
4824.000	30.01	10.44	40.45	54.0	-13.55	AV	Vertical	
7236.000	36.88	12.39	49.27	74.0	-24.73	pk	Vertical	
4824.000	44.58	10.44	55.02	74.0	-18.98	pk	Horizontal	
4824.000	28.17	10.44	38.61	54.0	-15.39	AV	Horizontal	
7236.000	30.06	12.39	42.45	74.0	-31.55	pk	Horizontal	
		Mid	del Channel (2437	MHz)				
4874.000	48.36	10.40	58.76	74.0	-15.24	pk	Vertical	
4874.000	32.34	10.40	42.74	54.0	-11.26	AV	Vertical	
7311.000	38.26	12.75	51.01	74.0	-22.99	Pk	Vertical	
4874.000	47.13	10.40	57.53	74.0	-16.47	Pk	Horizontal	
4874.000	30.47	10.40	40.87	54.0	-13.13	AV	Horizontal	
7311.000	31.76	12.75	44.51	74.0	-29.49	Pk	Horizontal	
		Hiç	gh Channel (2462 N	⁄IHz)				
4924.000	47.88	10.39	58.27	74.0	-15.73	pk	Vertical	
4924.000	31.05	10.39	41.44	54.0	-12.56	AV	Vertical	
7386.000	34.55	12.68	47.23	74.0	-26.77	pk	Vertical	
4924.000	45.69	10.39	56.08	74.0	-17.92	pk	Horizontal	
4924.000	30.43	10.39	40.82	54.0	-13.18	AV	Horizontal	
7386.000	32.08	12.68	44.76	74.0	-29.24	pk	Horizontal	



	-		
EUT:	MID	Model Name :	NVW101S
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX-G		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect	Comment	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	or Type	Comment	
	Low Channel (2412 MHz)							
4824.000	46.42	10.44	56.86	74	-17.14	Pk	Vertical	
4824.000	28.12	10.44	38.56	54	-15.44	AV	Vertical	
7236.000	35.52	12.39	47.91	74	-26.09	pk	Vertical	
4824.000	42.13	10.44	52.57	74	-21.43	pk	Horizontal	
4824.000	22.91	10.44	33.35	54	-20.65	AV	Horizontal	
7236.000	32.53	12.39	44.92	74	-29.08	pk	Horizontal	
		Mid	del Channel (2437	MHz)				
4874.000	46.12	10.4	56.52	74	-17.48	pk	Vertical	
4874.000	31.63	10.4	42.03	54	-11.97	AV	Vertical	
7311.000	35.32	12.75	48.07	74	-25.93	Pk	Vertical	
4874.000	45.32	10.4	55.72	74	-18.28	Pk	Horizontal	
4874.000	28.12	10.4	38.52	54	-15.48	AV	Horizontal	
7311.000	30.21	12.75	42.96	74	-31.04	Pk	Horizontal	
		Hiç	gh Channel (2462 N	⁄IHz)				
4924.000	45.13	10.39	55.52	74	-18.48	pk	Vertical	
4924.000	32.42	10.39	42.81	54	-11.19	AV	Vertical	
7386.000	33.22	12.68	45.9	74	-28.1	pk	Vertical	
4924.000	44.11	10.39	54.5	74	-19.5	pk	Horizontal	
4924.000	28.53	10.39	38.92	54	-15.08	AV	Horizontal	
7386.000	32.21	12.68	44.89	74	-29.11	pk	Horizontal	



		_	
EUT:	MID	Model Name :	NVW101S
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX-N(20)		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect		
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	or	Comment	
(IVITIZ)	(ασμν)	()	(1 /	\ 1 /	(ub)	Type		
	Low Channel (2412 MHz)							
4824.000	42.62	10.44	53.06	74	-20.94	Pk	Vertical	
7236.000	35.52	12.39	47.91	74	-26.09	pk	Vertical	
4824.000	40.24	10.44	50.68	74	-23.32	pk	Horizontal	
7236.000	30.61	12.39	43	74	-31	pk	Horizontal	
		Mid	del Channel (2437	MHz)				
4874.000	46.42	10.4	56.82	74	-17.18	pk	Vertical	
4874.000	30.51	10.4	40.91	54	-13.09	AV	Vertical	
7311.000	33.02	12.75	45.77	74	-28.23	Pk	Vertical	
4874.000	45.43	10.4	55.83	74	-18.17	Pk	Horizontal	
4874.000	26.32	10.4	36.72	54	-17.28	AV	Horizontal	
7311.000	30.12	12.75	42.87	74	-31.13	Pk	Horizontal	
		Hiç	gh Channel (2462 N	ИHz)				
4924.000	45.42	10.39	55.81	74	-18.19	pk	Vertical	
4924.000	31.21	10.39	41.6	54	-12.4	AV	Vertical	
7386.000	32.13	12.68	44.81	74	-29.19	pk	Vertical	
4924.000	43.34	10.39	53.73	74	-20.27	pk	Horizontal	
4924.000	28.03	10.39	38.42	54	-15.58	AV	Horizontal	
7386.000	31.24	12.68	43.92	74	-30.08	pk	Horizontal	



EUT: MID Model Name: NVW101S

Temperature: 20 °C Relative Humidity: 48%

Pressure: 1010 hPa Test Voltage: DC 3.7V

Test Mode: TX-N(40)

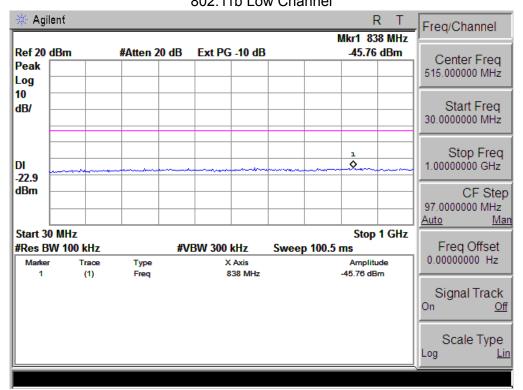
Report No.: NTEK-2014NT0703046F1

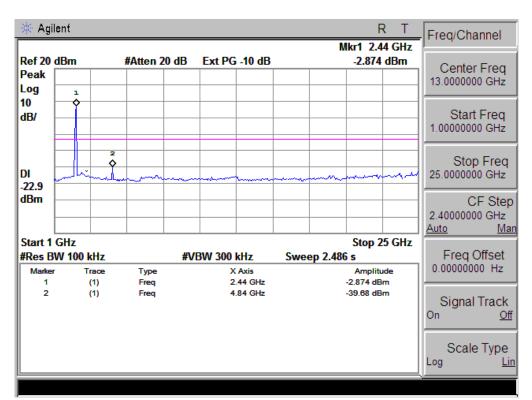
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect	Comment	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment	
	Low Channel (2422 MHz)							
4844.000	40.02	10.46	50.48	74	-23.52	pk	Vertical	
7266.000	32.12	12.4	44.52	74	-29.48	pk	Vertical	
4844.000	38.14	10.46	48.6	74	-25.4	pk	Horizontal	
7266.000	30.42	12.4	42.82	74	-31.18	pk	Horizontal	
		Mid	del Channel (2437	MHz)				
4874.000	44.56	10.4	54.96	74	-19.04	pk	Vertical	
4874.000	25.34	10.4	35.74	54	-18.26	AV	Vertical	
7311.000	33.23	12.75	45.98	74	-28.02	Pk	Vertical	
4874.000	45.41	10.4	55.81	74	-18.19	Pk	Horizontal	
4874.000	29.08	10.4	39.48	54	-14.52	AV	Horizontal	
7311.000	32.57	12.75	45.32	74	-28.68	Pk	Horizontal	
		Hiç	gh Channel (2452 N	⁄lHz)				
4904.000	41.22	10.37	51.59	74	-22.41	pk	Vertical	
7356.000	32.19	12.65	44.84	74	-29.16	pk	Vertical	
4904.000	40.71	10.37	51.08	74	-22.92	pk	Horizontal	
7356.000	30.02	12.65	42.67	74	-31.33	pk	Horizontal	



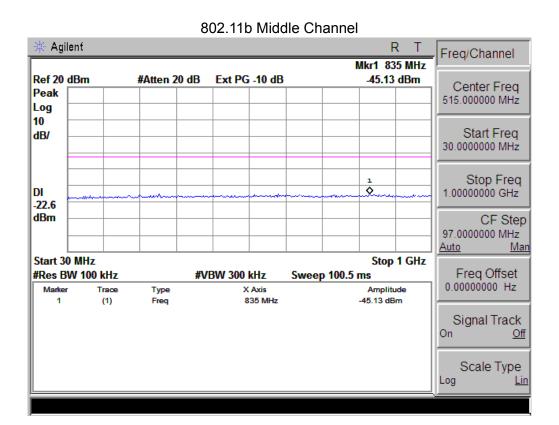
Conducted Spurious Emissions at Antenna Port: 802.11b Low Channel

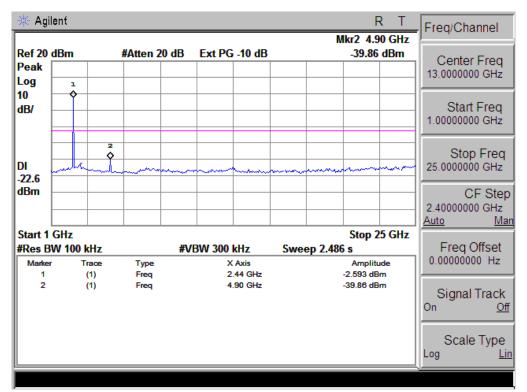
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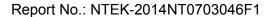




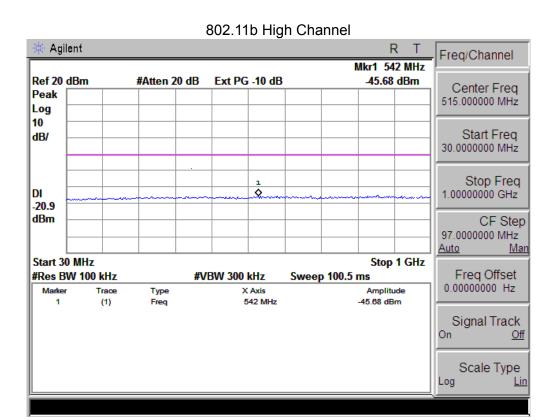


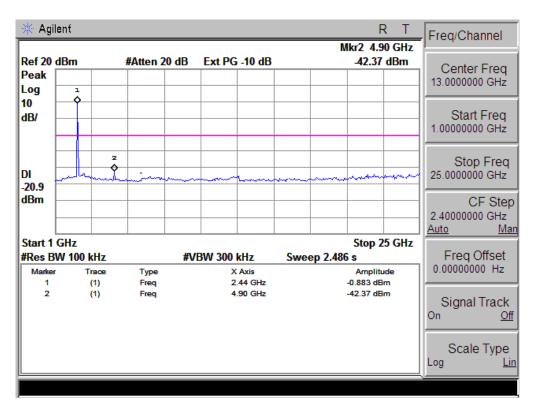




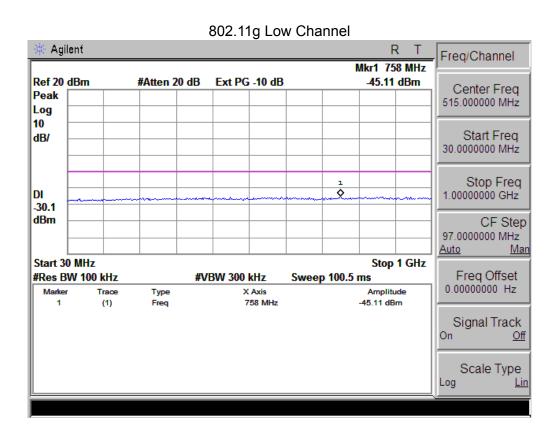


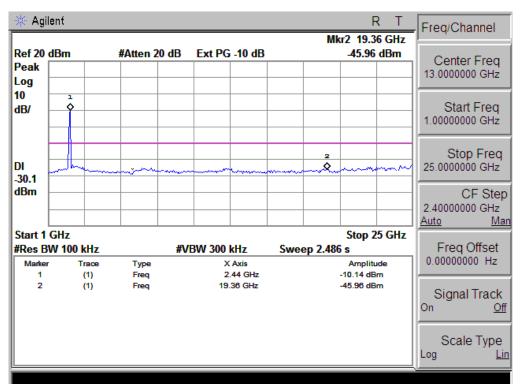






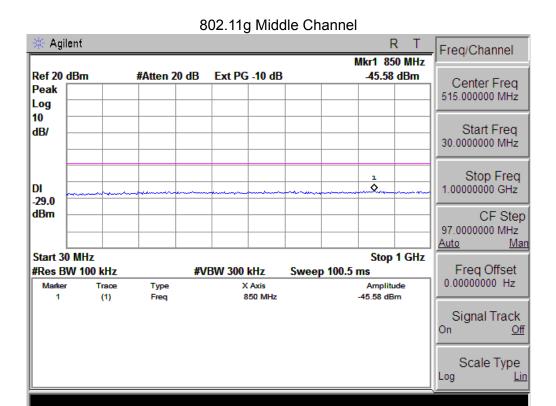


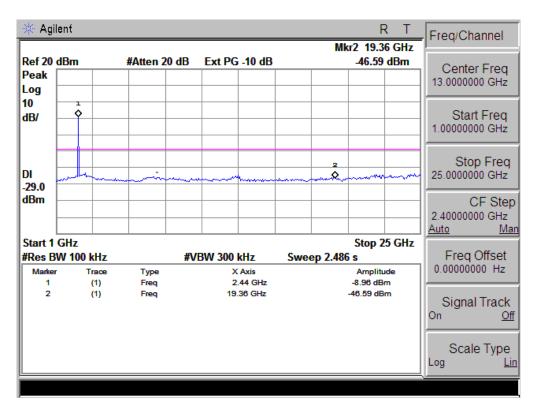




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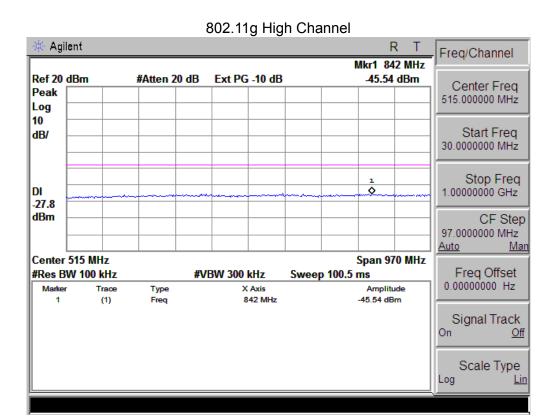


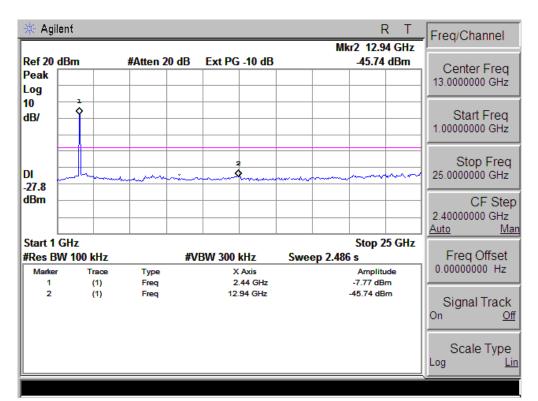




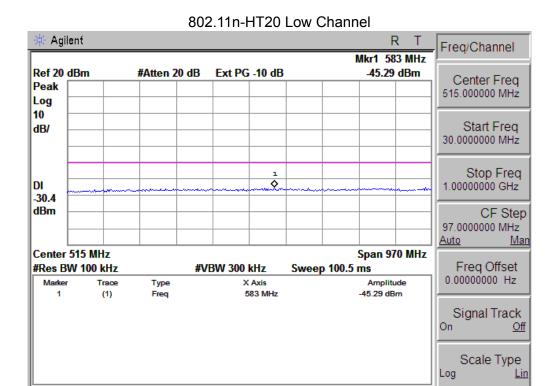
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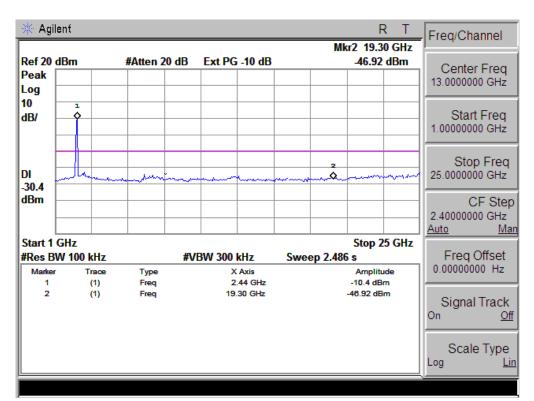








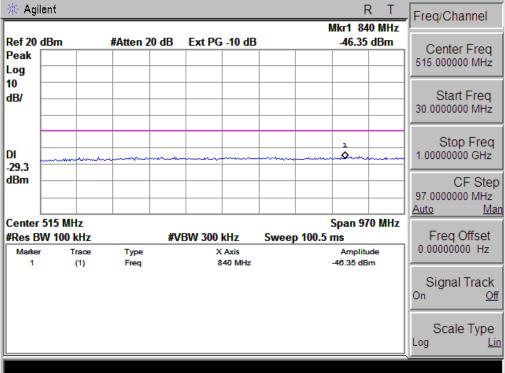
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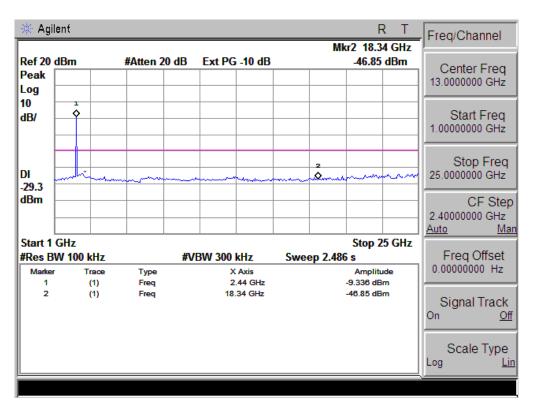




802.11n-HT20 Middle Channel

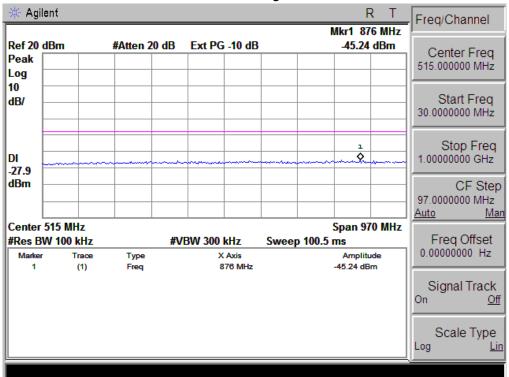
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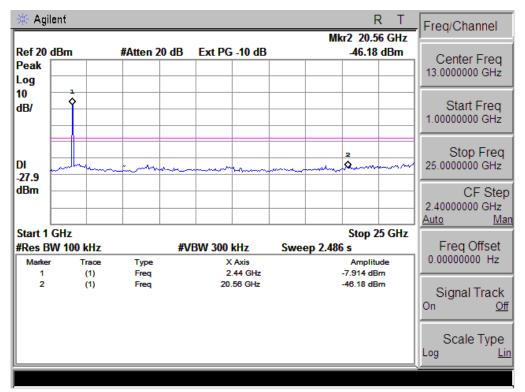






802.11n-HT20 High Channel

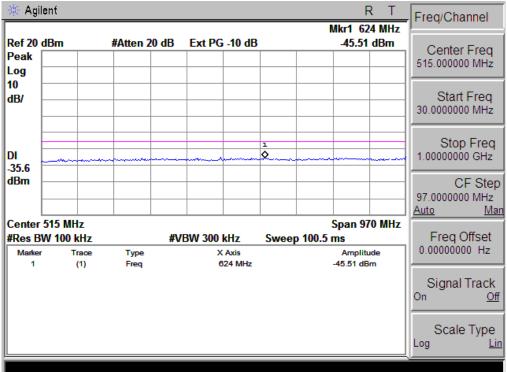


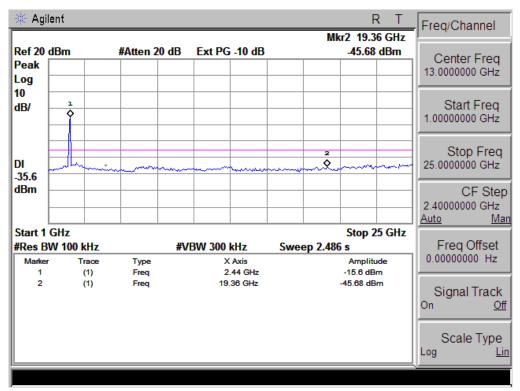




802.11n-HT40 Low Channel

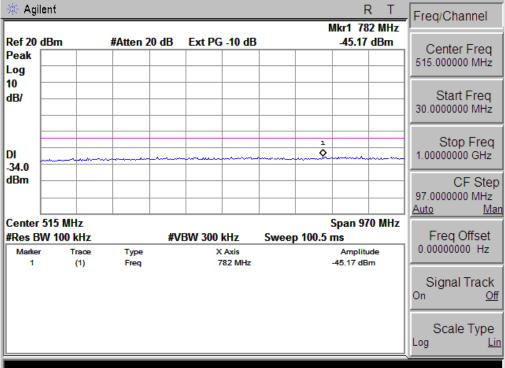
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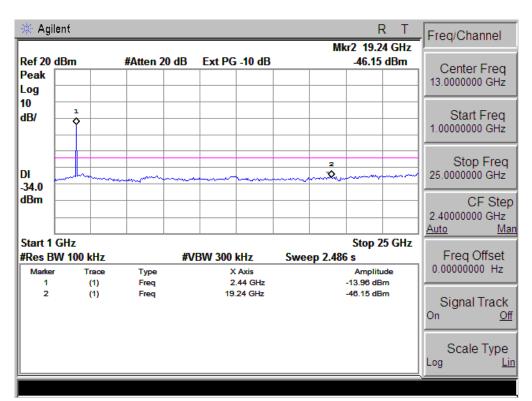






802.11n-HT40 Middle Channel

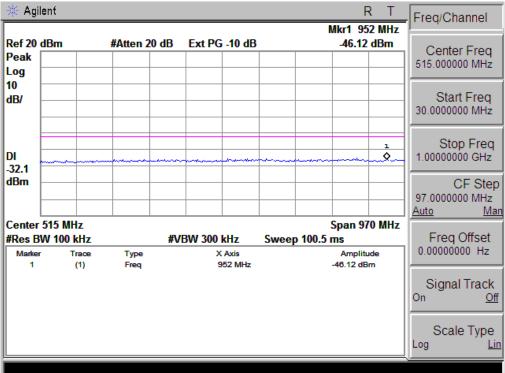


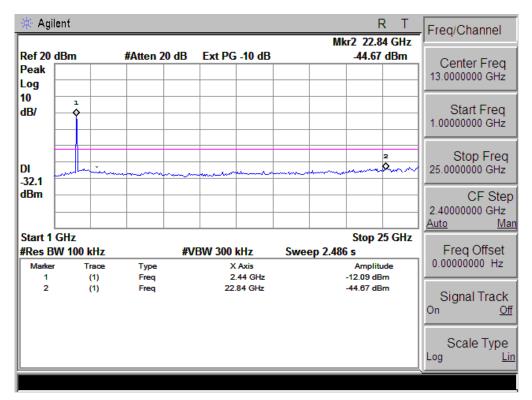


Note: Measurement point satisfies the requirement of KDB file.



802.11n-HT40 High Channel





Note: Measurement point satisfies the requirement of KDB file.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / 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	

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 kHz ≤Set the RBW≤100 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.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

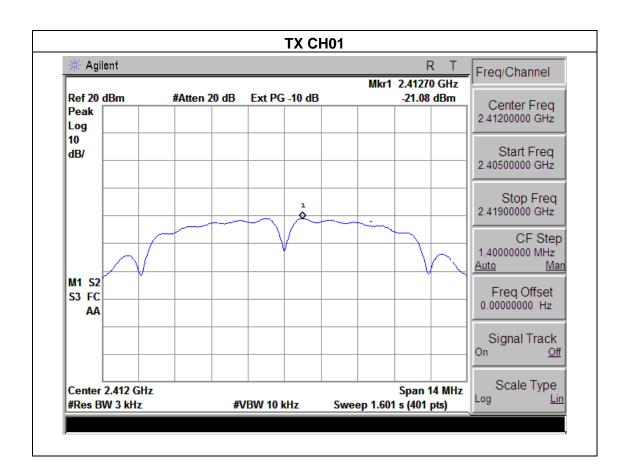


4.1.5 TEST RESULTS

EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode : TX b Mode /CH01, CH06, CH11			

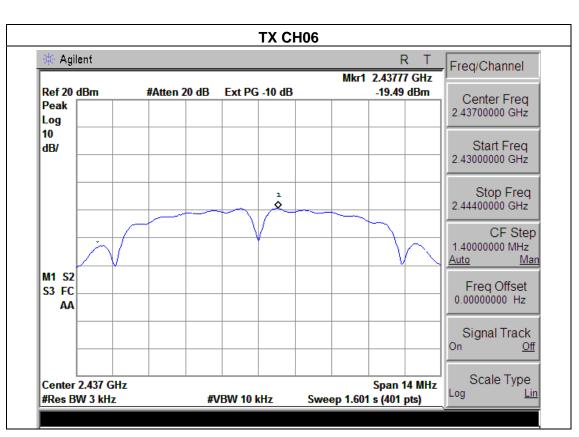
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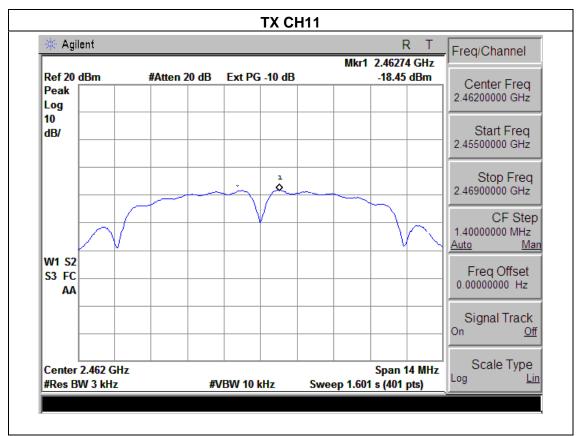
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-21.08	8	PASS
2437 MHz	-19.49	8	PASS
2462 MHz	-18.45	8	PASS



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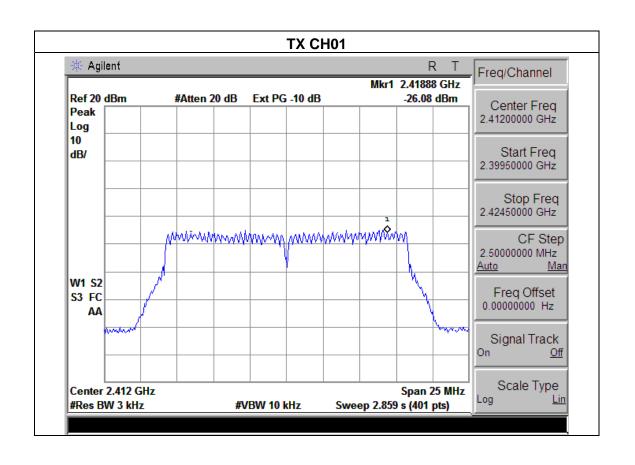




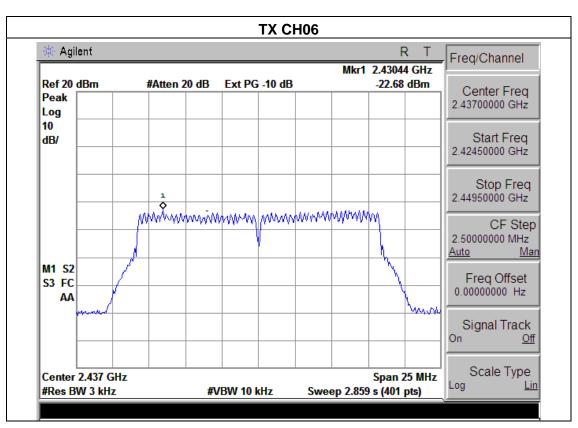
EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

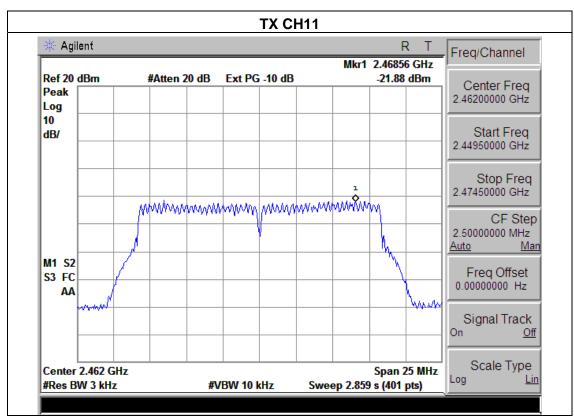
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-26.08	8	PASS
2437 MHz	-22.68	8	PASS
2462 MHz	-21.88	8	PASS







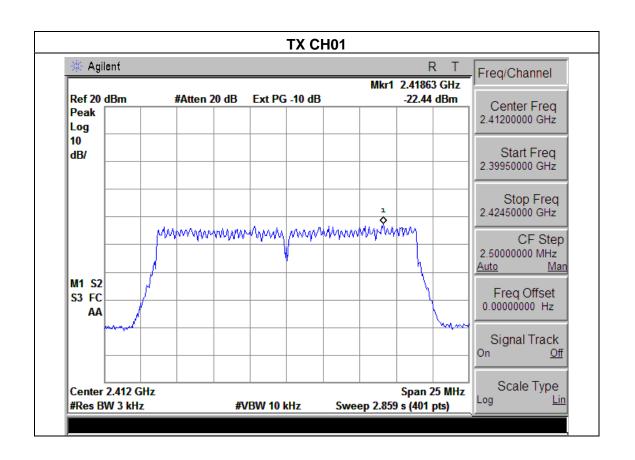




EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

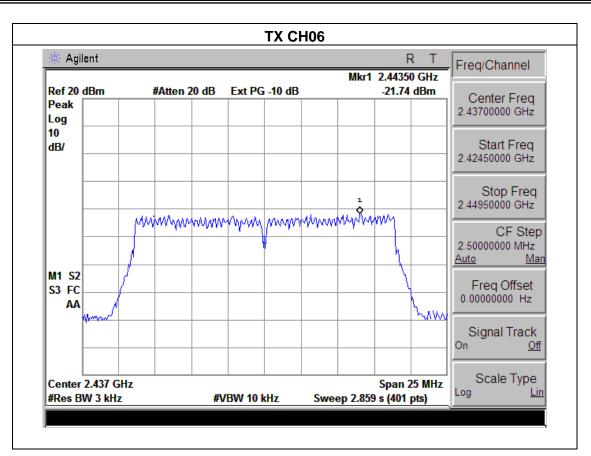
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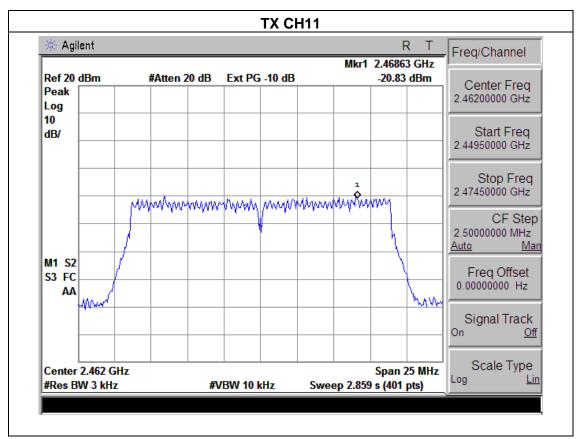
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-22.44	8	PASS
2437 MHz	-21.74	8	PASS
2462 MHz	-20.83	8	PASS



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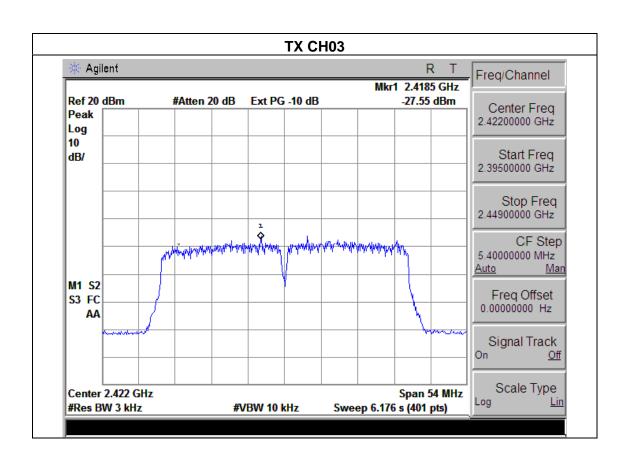




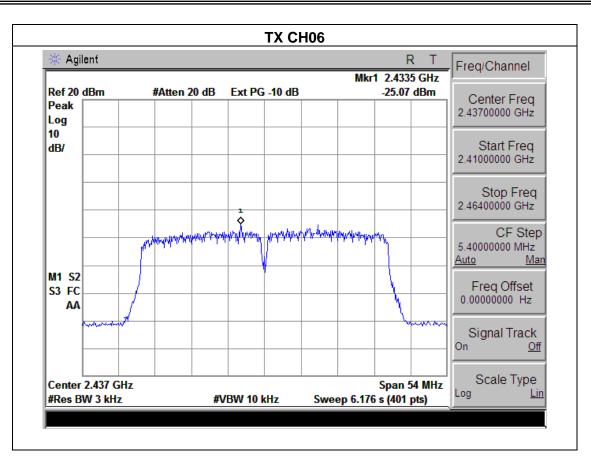
EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

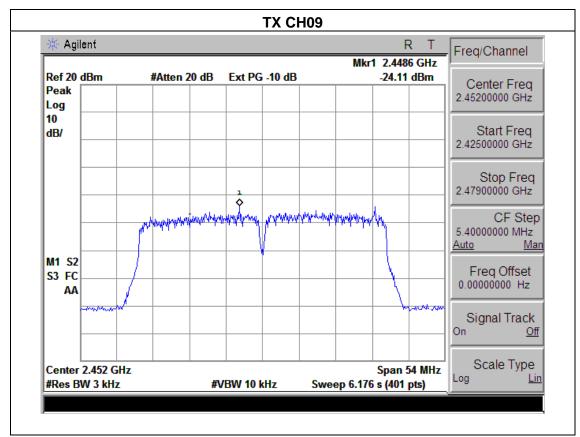
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-27.55	8	PASS
2437 MHz	-25.07	8	PASS
2452 MHz	-24.11	8	PASS











5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / 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	

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

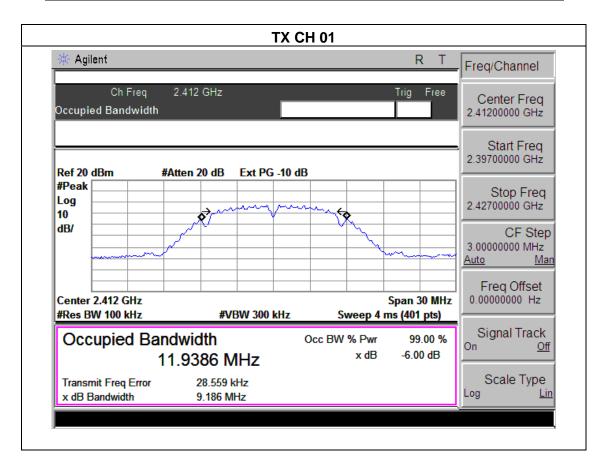


5.1.3 TEST RESULTS

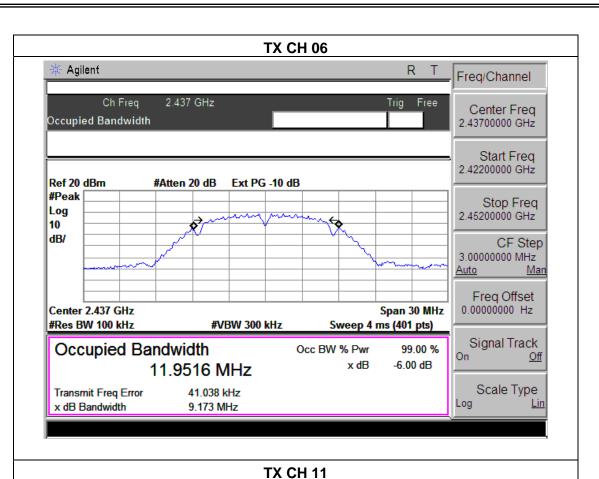
EUT:	MID	Model Name :	NVW101S	
Temperature :	25 ℃	Relative Humidity:	56%	
Pressure:	1012 hPa	Test Voltage :	DC 3.7V	
Test Mode :	TX b Mode /CH01, CH06, CH11			

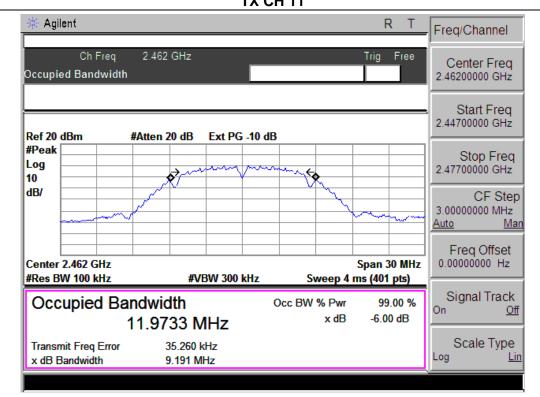
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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.186	500	Pass
Middle	2437	9.173	500	Pass
High	2462	9.191	500	Pass







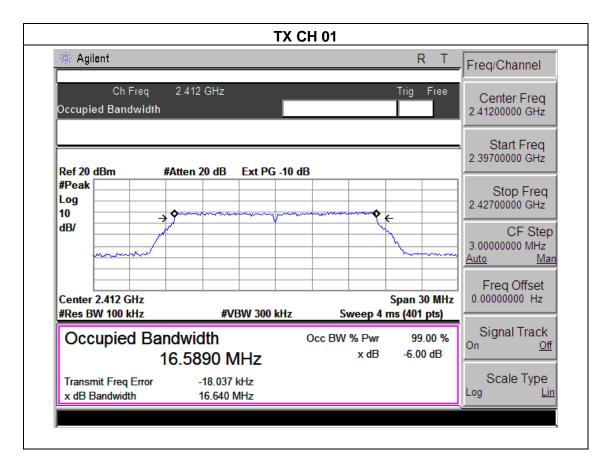




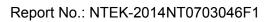
EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH1	11	

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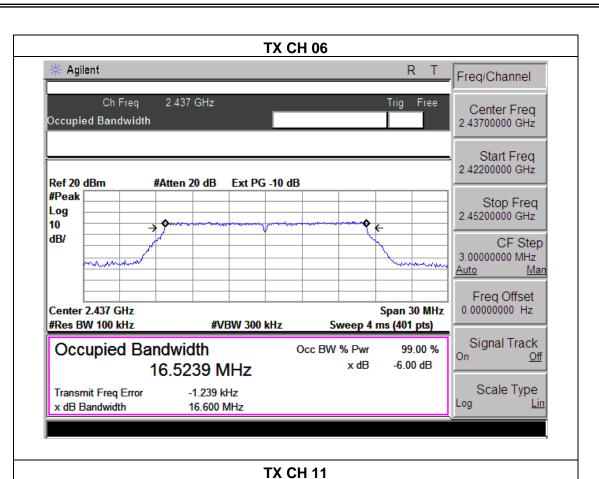
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.640	500	Pass
Middle	2437	16.600	500	Pass
High	2462	16.603	500	Pass

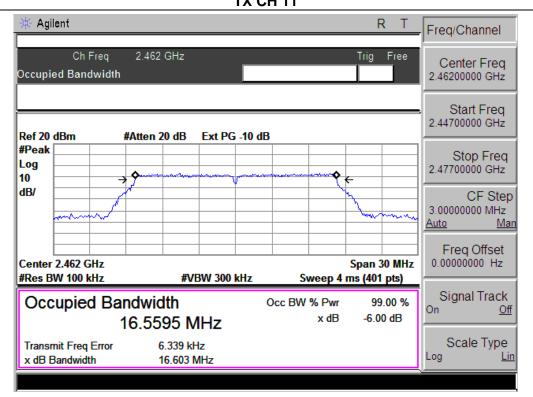


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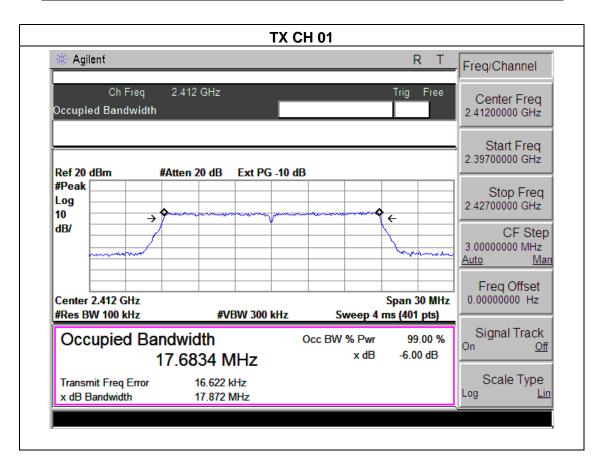




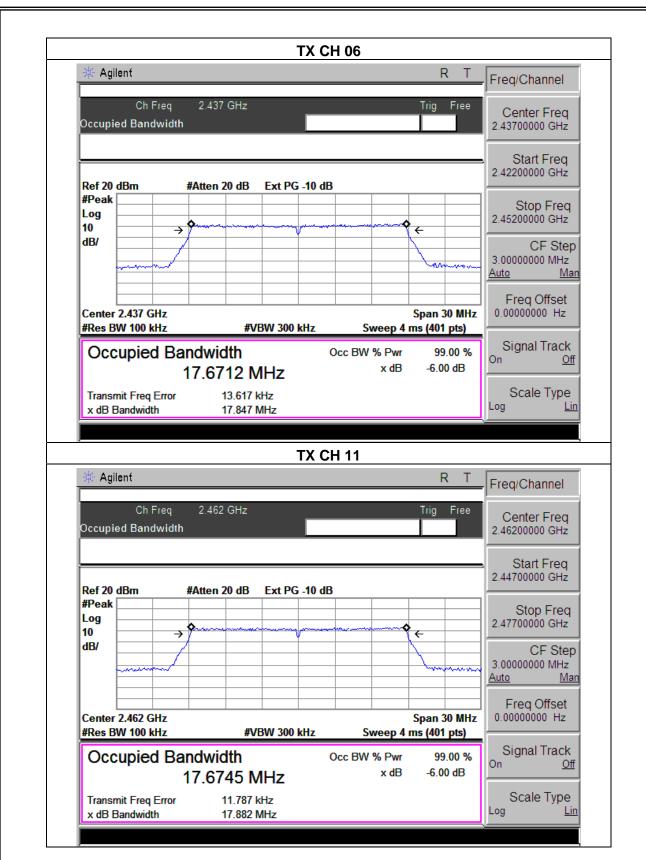
		_	
EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.872	500	Pass
Middle	2437	17.847	500	Pass
High	2462	17.882	500	Pass





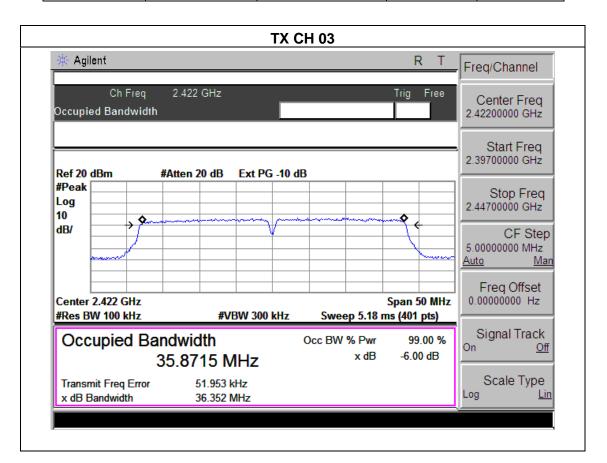




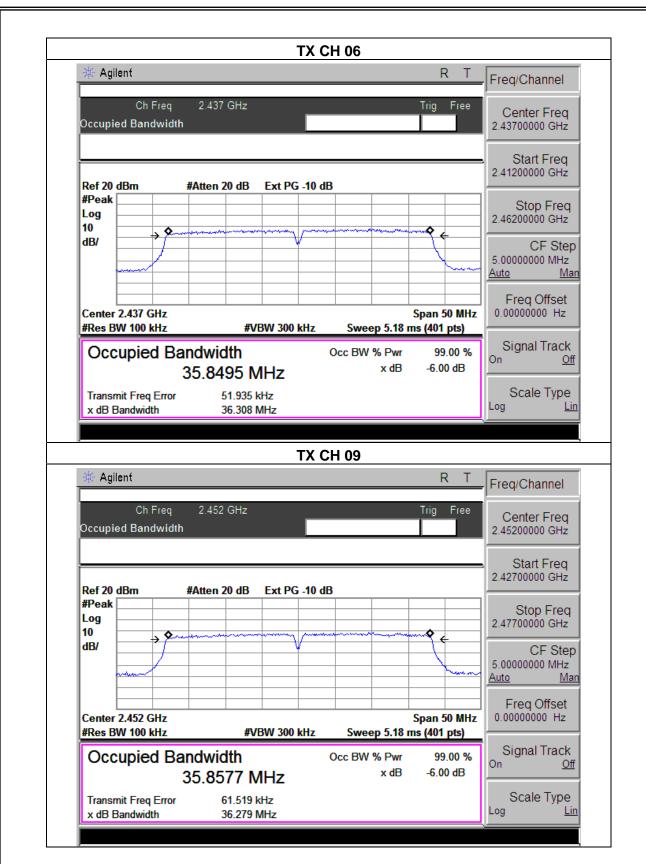
EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	36.352	500	Pass
Middle	2437	35.308	500	Pass
High	2452	36.279	500	Pass









6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / 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

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	POWER	METED
	TONLIK	ML I LIX

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.1.5 TEST RESULTS

EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b/g/n20/n40 Mode		

TX 802.11b Mode					
Test Frequency	Maximum Conducted	Maximum Conducted	LIMIT		
Channe	rrequericy	Output Power(PK)	Output Power(AV)	LIIVIII	
	(MHz)	(dBm)	(dBm)	(dBm)	
CH01	2412	12.13	9.24	30	
CH06	2437	12.44	9.47	30	
CH11	2462	12.32	9.41	30	
		TX 802.11g	Mode		
CH01	2412	11.45	9.15	30	
CH06	2437	11.63	9.32	30	
CH11	2462	11.28	9.22	30	
		TX 802.11n-H	Γ20 Mode		
CH01	2412	10.26	8.10	30	
CH06	2437	10.21	8.33	30	
CH11	2462	10.31	8.51	30	
TX 802.11n-HT40 Mode					
CH03	2422	9.92	8.23	30	
CH06	2437	9.52	7.81	30	
CH09	2452	9.72	7.75	30	



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) 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.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) 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.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.4 TEST RESULTS

EUT:	MID	Model Name :	NVW101S
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result		
	802.11b				
Left-band	44.96	20	Pass		
Right-band	47.46	20	Pass		
	802.11g				
Left-band	36.21	20	Pass		
Right-band	39.96	20	Pass		
	802.11n20				
Left-band	34.48	20	Pass		
Right-band	38.95	20	Pass		
802.11n40					
Left-band	33.15	20	Pass		
Right-band	34.23	20	Pass		

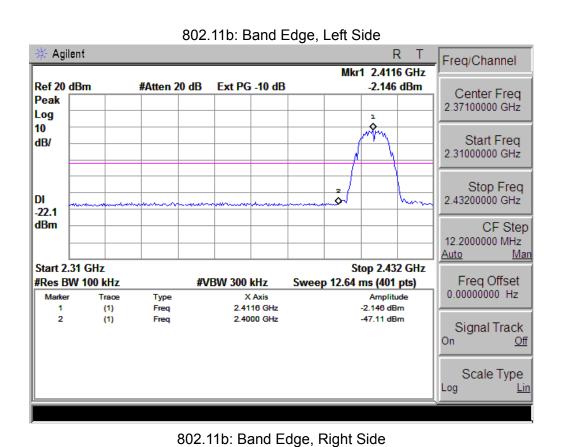


Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type				
802.11b										
2390	56.23	-13.06	43.17	74	-30.83	peak	Vertical			
2390	54.23	-13.06	41.17	74	-32.83	peak	Horizontal			
2483.5	57.34	-12.78	44.56	74	-29.44	peak	Vertical			
2483.5	56.24	-12.78	43.46	74	-30.54	peak	Horizontal			
802.11g										
2390	53.15	-13.06	40.09	74	-33.91	peak	Vertical			
2390	51.34	-13.06	38.28	74	-35.72	peak	Horizontal			
2483.5	55.67	-12.78	42.89	74	-31.11	peak	Vertical			
2483.5	54.62	-12.78	41.84	74	-32.16	peak	Horizontal			
802.11n20										
2390	52.58	-13.06	39.52	74	-34.48	peak	Vertical			
2390	50.35	-13.06	37.29	74	-36.71	peak	Horizontal			
2483.5	53.56	-12.78	40.78	74	-33.22	peak	Vertical			
2483.5	52.78	-12.78	40	74	-34.00	peak	Horizontal			
	802.11n40									
2390	50.12	-13.06	37.06	74	-36.94	peak	Vertical			
2390	52.44	-13.06	39.38	74	-34.62	peak	Horizontal			
2483.5	52.45	-12.78	39.67	74	-34.33	peak	Vertical			
2483.5	54.72	-12.78	41.94	74	-32.06	peak	Horizontal			

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.



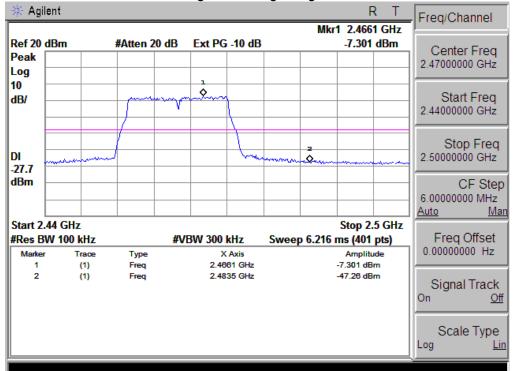


Agilent R Freq/Channel Mkr1 2.4615 GHz Ref 20 dBm #Atten 20 dB Ext PG -10 dB 0.432 dBm Center Freq Peak 2.47000000 GHz Log 10 Start Freq dB/ 2.44000000 GHz Stop Freq DI 2.50000000 GHz Q. -19.6 dBm CF Step 6.00000000 MHz <u>Auto</u> Start 2.44 GHz Stop 2.5 GHz Freq Offset 0.00000000 Hz #Res BW 100 kHz **#VBW 300 kHz** Sweep 6.216 ms (401 pts) Trace Type X Axis Amplitude 2.4615 GHz 0.432 dBm (1) Freq 2 2.4835 GHz -47.03 dBm (1)Freq Signal Track On Off Scale Type

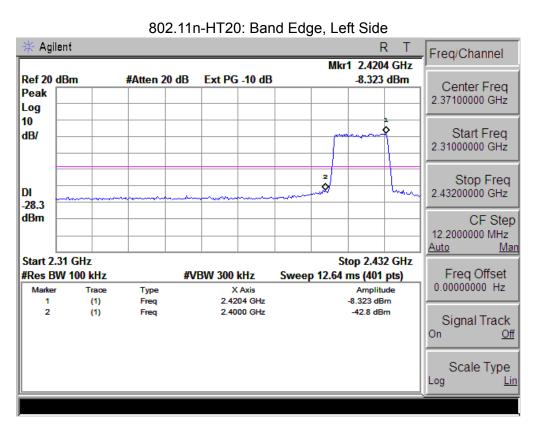




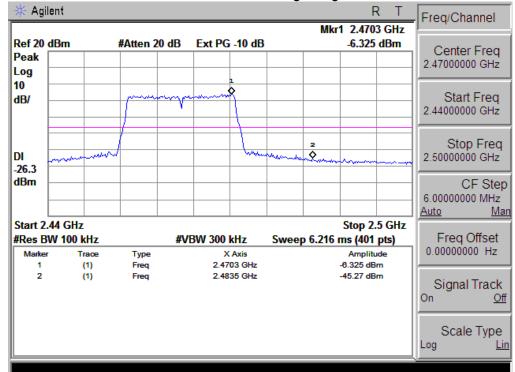
802.11g: Band Edge, Right Side



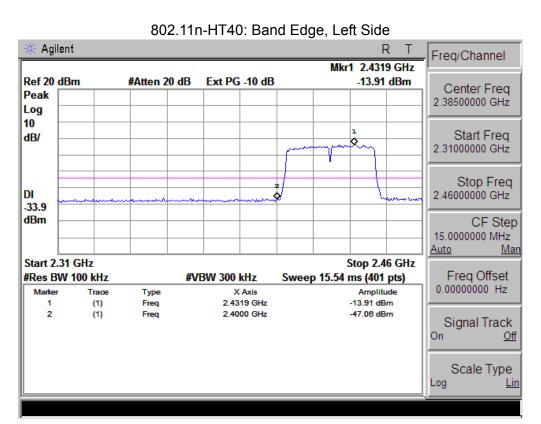




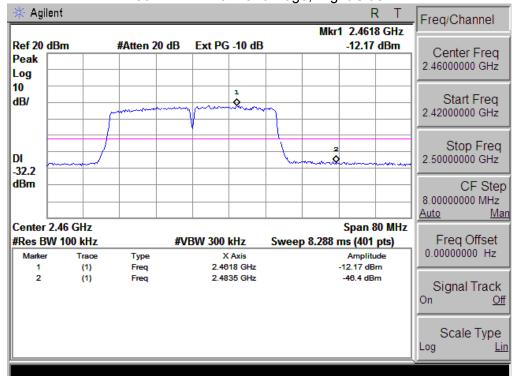
802.11n-HT20: Band Edge, Right Side







802.11n-HT40: Band Edge, Right Side





8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

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.

8.2 EUT ANTENNA

The EUT	antenna	is Built-in	Antenna.	It comply	v with the	standard	requirement	



9. EUT TEST PHOTO



