

FCC RADIO TEST REPORT-WIFI FCC ID:2AEHF-SMARTVOLT

Product: NOBUX™ SMART VOLT

Trade Name: NOBUX™

Model Name: SMART VOLT

Serial Model: N/A

Report No.: NTEK-2015NT10222902F1

Prepared for

NOBUX, LLC 8600 NW SOUTH RIVER DR #103 MIAMI, FLORIDA 33166, United States

Prepared by

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TEST RESULT CERTIFICATION

Report No.: NTEK-2015NT10222902F1

the revision of

Applicant's name Address		UTH RIVER	DR #103 MIAMI, F	LORIDA 33166,
Manufacture's Name	NOBUX, LLC			
Address	8600 NW SOI United States		DR #103 MIAMI, F	LORIDA 33166,
Product description				
Product name	NOBUX™ SN	MART VOLT		
Model and/or type reference	SMART VOLT	Γ		
Serial Model	N/A			
Standards	FCC Part15.2	247 01 Oct.	2015	
Test procedure	ANSI C63.10-	-2013 and KI	DB 558074: June	5, 2014
This device described all equipment under test (E to the tested sample ide	UT) is in comp	oliance with th		results show that the nts. And it is applicable only
This report shall not be a document may be altere the document. Date of Test	d or revised by	•		approval of NTEK, this all be noted in the revision o
Date (s) of performance	of tests 22	2 Oct. 2015 ~	10 Nov. 2015	
Date of Issue	10	Nov. 2015		
Test Result	Pa	ass		
Testing	g Engineer	:	Jusen chen)	
Techni	cal Manager	:	Brown Lu)	
Author	ized Signatory	′:	Sam . Chan (Sam Chen)	<u>/</u>



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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		

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(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.

Report No.: NTEK-2015NT10222902F1

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	NOBUX™ SMART	VOLT		
Trade Name	NOBUX™			
Model Name	SMART VOLT	SMART VOLT		
Serial Model	N/A			
Model Difference	N/A			
Product Description	The EUT is a NOBUX Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna Designation: Antenna Gain (dBi) Based on the applicat User's Manual, the EU	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) 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. 1.0 dbi tion, features, or specification exhibited in JT is considered as an ITE/Computing of EUT technical specification, please		
Channel List	refer to the User's Ma Please refer to the No			
Ratings	DC 3.8V			
Adapter	Input: 100-240V~, 50/60Hz,150mA Output: 5.0V=,500mA			
Battery	DC 3.8V ,2100mAh			
Connecting I/O Port(s)	Please refer to the Us	ser's Manual		

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	80	2447	11	2462
03	2422	06	2437	09	2452		

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3

Table for Filed Antenna

Iabi	able for the Arterna					
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	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 4	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	

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			

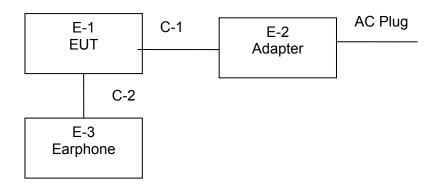


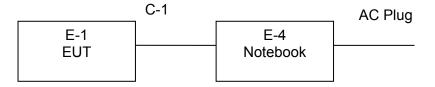
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test







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	NOBUX™ SMART VOLT	NOBUX™	SMART VOLT	N/A	EUT
E-2	ADAPTER	N/A	JK050250-S04US	N/A	
E-3	Earphone	N/A	2688	N/A	
E-4	Notebook	Lenove	Thinkpad Edge E430	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	

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 1: 1:		
Padiation	LACT A	taamant
Radiation	וכטו כו	JUIDITIETIL

			1				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.06.07	2016.06.06	1 year

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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	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	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)

	Class A (dBuV)		Class B	Standard	
FREQUENCY (MHz)	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.



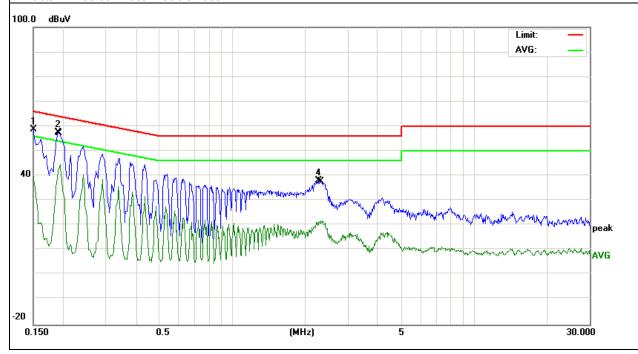
3.1.6 TEST RESULTS

EUT:	NOBUX™ SMART VOLT	Model Name. :	SMART VOLT
Temperature :	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
LIEST VOITAGE .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	49.06	9.63	58.69	65.99	-7.30	QP
0.1900	48.06	9.61	57.67	64.03	-6.36	QP
0.1940	35.08	9.60	44.68	53.86	-9.18	AVG
2.2620	28.28	9.66	37.94	56.00	-18.06	QP
2.3300	12.24	9.66	21.90	46.00	-24.10	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



Mode 4



Test Voltage :

EUT:	NOBUX™	SMART VOLT	Model Name. :	SMART VOLT
Temperature :	26 ℃		Relative Humidity:	56%
Pressure:	1010hPa		Phase :	N

Test Mode:

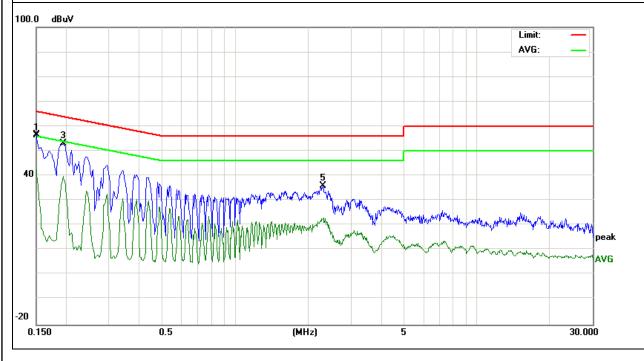
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DC 5V form Adapter

AC 120V/60Hz

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	46.90	9.60	56.50	65.99	-9.49	QP
0.1500	33.03	9.60	42.63	55.99	-13.36	AVG
0.1940	43.42	9.61	53.03	63.86	-10.83	QP
0.1940	30.11	9.61	39.72	53.86	-14.14	AVG
2.3020	26.54	9.53	36.07	56.00	-19.93	QP
2.3179	13.63	9.53	23.16	46.00	-22.84	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



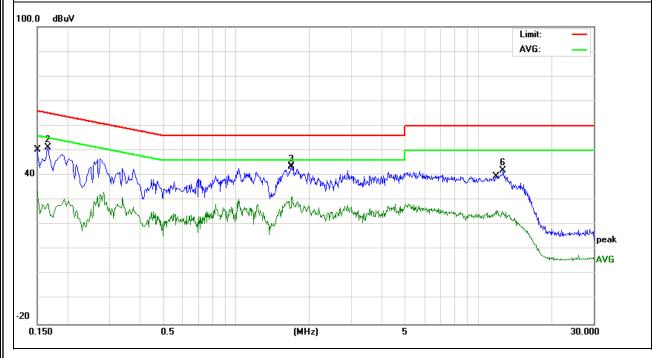


EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
TASE VOIDAGE .	DC 5.0V from adapter AC 240V/60Hz	Test Mode :	Mode 4

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	24.07	9.49	33.56	55.99	-22.43	QP
0.1660	41.88	9.48	51.36	65.15	-13.79	AVG
1.6820	34.04	9.56	43.60	56.00	-12.40	QP
1.7060	21.85	9.56	31.41	46.00	-14.59	AVG
11.8260	15.87	9.77	25.64	50.00	-24.36	QP
12.7140	32.15	9.78	41.93	60.00	-18.07	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



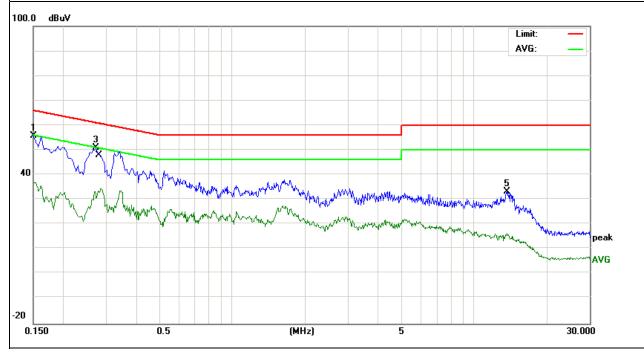


EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test vollage .	DC 5.0V from adapter AC 240V/60Hz	Test Mode :	Mode 4

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	46.21	9.46	55.67	65.99	-10.32	QP
0.1500	27.43	9.46	36.89	55.99	-19.10	AVG
0.2740	41.40	9.45	50.85	60.99	-10.14	QP
0.2860	25.09	9.44	34.53	50.64	-16.11	AVG
13.6540	23.45	9.75	33.20	60.00	-26.80	QP

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



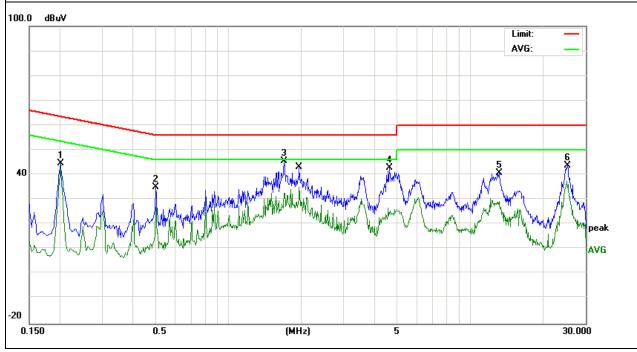


EUT:	NOBUX™ SMART VOLT	Model Name. :	SMART VOLT
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
Liest Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 4

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2020	35.30	9.45	44.75	63.52	-18.77	QP
0.5020	25.44	9.55	34.99	56.00	-21.01	AVG
1.7060	35.92	9.56	45.48	56.00	-10.52	QP
4.6259	33.28	9.67	42.95	56.00	-13.05	AVG
13.1339	31.02	9.79	40.81	60.00	-19.19	QP
25.2420	33.71	9.92	43.63	60.00	-16.37	AVG
0.2020	33.89	9.45	43.34	53.52	-10.18	QP
1.9660	25.37	9.57	34.94	46.00	-11.06	AVG
25.1420	27.67	9.92	37.59	50.00	-12.41	QP

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



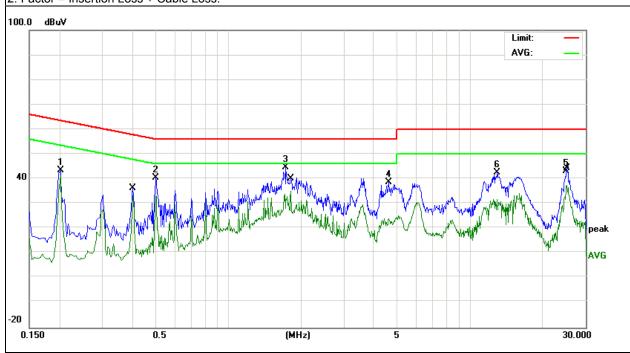


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EUT:	NOBUX™ SMART VOLT	Model Name. :	SMART VOLT
Temperature :	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 4

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2020	34.06	9.46	43.52	63.52	-20.00	QP
0.5020	30.97	9.46	40.43	56.00	-15.57	AVG
1.7340	35.21	9.45	44.66	56.00	-11.34	QP
4.6099	29.10	9.48	38.58	56.00	-17.42	AVG
25.0300	33.06	9.95	43.01	60.00	-16.99	QP
12.9699	32.91	9.74	42.65	60.00	-17.35	AVG
0.2020	32.01	9.46	41.47	53.52	-12.05	QP
0.4020	23.81	9.44	33.25	47.81	-14.56	AVG
25.1300	27.43	9.95	37.38	50.00	-12.62	QP
1.8100	25.69	9.46	35.15	46.00	-10.85	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



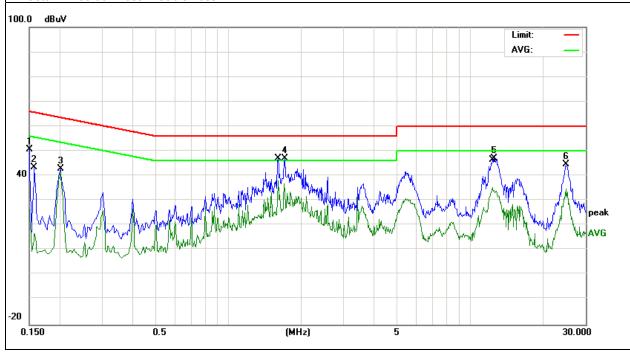


EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
riest voltage .	DC 5.0V from PC AC 240V/60Hz	Test Mode :	Mode 4

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1499	41.08	9.49	50.57	66.00	-15.43	QP
0.1580	33.90	9.48	43.38	65.56	-22.18	AVG
0.2020	33.28	9.45	42.73	63.52	-20.79	QP
1.7100	37.59	9.56	47.15	56.00	-8.85	AVG
12.5579	37.14	9.78	46.92	60.00	-13.08	QP
24.9860	34.87	9.92	44.79	60.00	-15.21	AVG
0.2020	32.18	9.45	41.63	53.52	-11.89	QP
1.6020	28.45	9.56	38.01	46.00	-7.99	AVG
12.3459	25.53	9.78	35.31	50.00	-14.69	QP

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



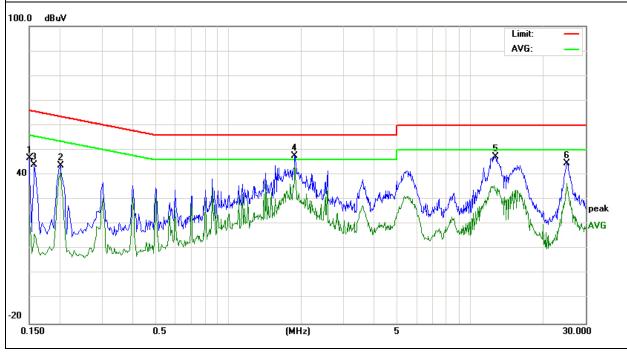


-				
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT	
Temperature : 26 ℃		Relative Humidity:	54%	
Pressure :	1010hPa	Phase :	N	
Liest Voltage :	DC 5.0V from PC AC 240V/60Hz	Test Mode:	Mode 4	

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1499	37.34	9.46	46.80	66.00	-19.20	QP
0.2020	34.37	9.46	43.83	63.52	-19.69	AVG
0.1580	34.71	9.46	44.17	65.56	-21.39	QP
1.8860	38.26	9.46	47.72	56.00	-8.28	AVG
12.7499	37.77	9.73	47.50	60.00	-12.50	QP
25.0940	34.65	9.95	44.60	60.00	-15.40	AVG
0.2020	31.98	9.46	41.44	53.52	-12.08	QP
1.8860	34.69	9.46	44.15	46.00	-1.85	AVG
25.0940	26.68	9.95	36.63	50.00	-13.37	QP

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





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 B (dBuV/m) (at 3M)		
FREQUENCT (WITZ)	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).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook, 1 MHz / 10Hz 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 m for below 1GHz and 1.5m for above 1GHz 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 for below 1GHz and 1.5m for above 1GHz; 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	QP	100 kHz	100 kHz
	Peak	1 MHz	1 MHz
Above 1000	Peak	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

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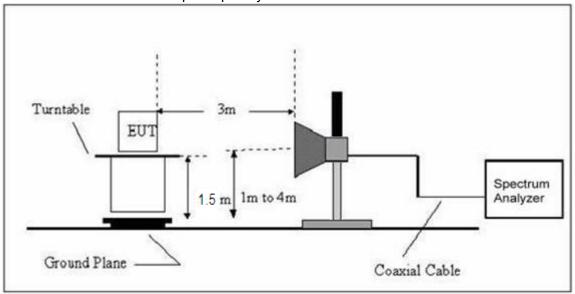
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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

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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:	NOBUX™	SMART VOLT	Model Name. :	SMART VOLT
Temperature:	20 ℃		Relative Humidtity:	48%
Pressure:	1010 hPa		Test Voltage :	DC 3.8V
Test Mode:	TX		Polarization :	

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.



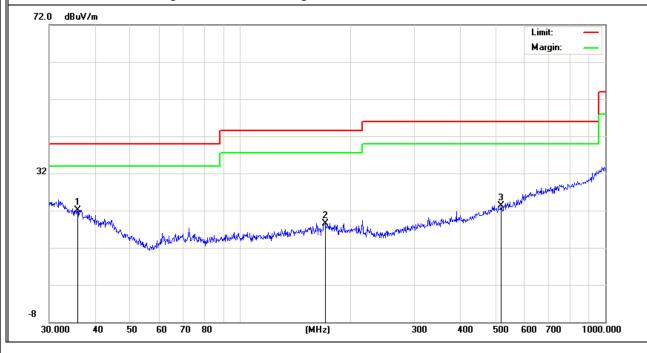
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.8V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	35.8746	5.04	17.00	22.04	40.00	-17.96	QP
V	170.7925	6.03	12.51	18.54	43.50	-24.96	QP
V	517.2480	6.08	17.19	23.27	46.00	-22.73	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



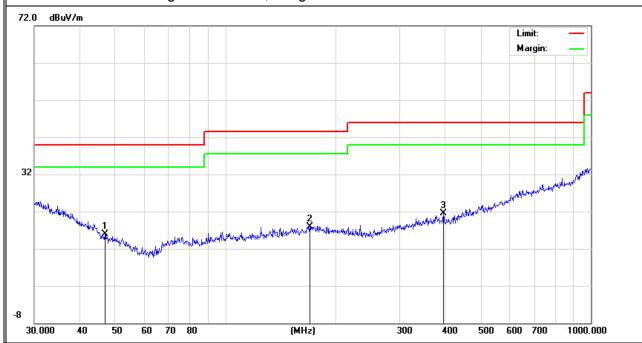


Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
Н	46.8303	5.58	10.31	15.89	40.00	-24.11	peak
Н	170.1948	5.37	12.54	17.91	43.50	-25.59	peak
Н	394.8545	6.67	14.80	21.47	46.00	-24.53	peak

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Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	NOBUX™ SMART VOI	T Model Name :	SMART VOLT
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.8V
Test Mode:	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Damark	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark	Comment
		Lo	w Channel (2412 M	1Hz)		•	
4824.042	51.6	10.44	62.04	74.00	-11.96	Pk	Vertical
4824.042	33.16	10.44	43.60	54.00	-10.40	Av	Vertical
7236.126	44.81	12.39	57.20	74.00	-16.80	Pk	Vertical
7236.126	29.09	12.39	41.48	54.00	-12.52	Av	Vertical
4824.304	53.35	10.44	63.79	74.00	-10.21	Pk	Horizontal
4824.304	32.07	10.44	42.51	54.00	-11.49	Av	Horizontal
7236.252	45.51	12.39	57.90	74.00	-16.10	Pk	Horizontal
7236.252	30.65	12.39	43.04	54.00	-10.96	Av	Horizontal
		Mid	del Channel (2437	MHz)			
4874.247	51.01	10.40	61.41	74.00	-12.59	Pk	Vertical
4874.247	31.93	10.40	42.33	54.00	-11.67	Av	Vertical
7311.306	44.67	12.75	57.42	74.00	-16.58	Pk	Vertical
7311.306	27.66	12.75	40.41	54.00	-13.59	Av	Vertical
4874.089	51.78	10.40	62.18	74.00	-11.82	Pk	Horizontal
4874.089	33.01	10.40	43.41	54.00	-10.59	Av	Horizontal
7311.174	47.89	12.75	60.64	74.00	-13.36	Pk	Horizontal
7311.174	28.58	12.75	41.33	54.00	-12.67	Av	Horizontal
	High Channel (2462 MHz)						
4924.326	50.95	10.39	61.34	74.00	-12.66	Pk	Vertical
4924.326	32.58	10.39	42.97	54.00	-11.03	Av	Vertical
7386.247	44.35	12.68	57.03	74.00	-16.97	Pk	Vertical
7386.247	27.99	12.68	40.67	54.00	-13.33	Av	Vertical
4924.089	50.98	10.39	61.37	74.00	-12.63	Pk	Horizontal
4924.089	33.08	10.39	43.47	54.00	-10.53	Av	Horizontal
7386.147	47.37	12.68	60.05	74.00	-13.95	Pk	Horizontal
7386.147	28.67	12.68	41.35	54.00	-12.65	Av	Horizontal

Note: 802.11b mode is worse case.



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	

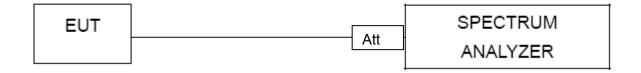
4.1.1 TEST PROCEDURE

- 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.

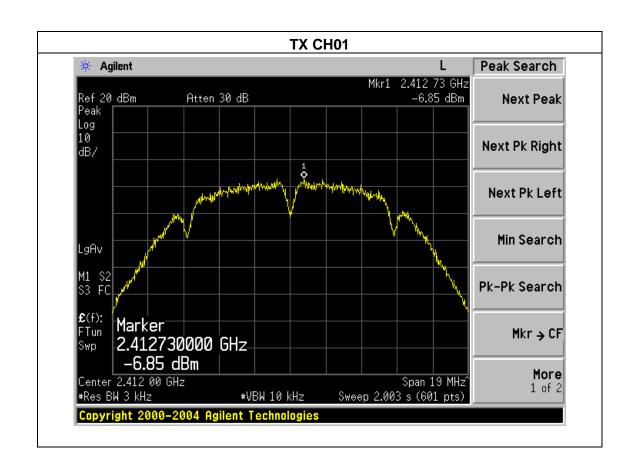


4.1.5 TEST RESULTS

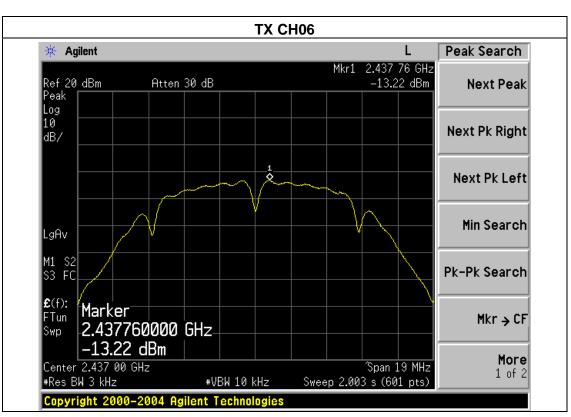
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

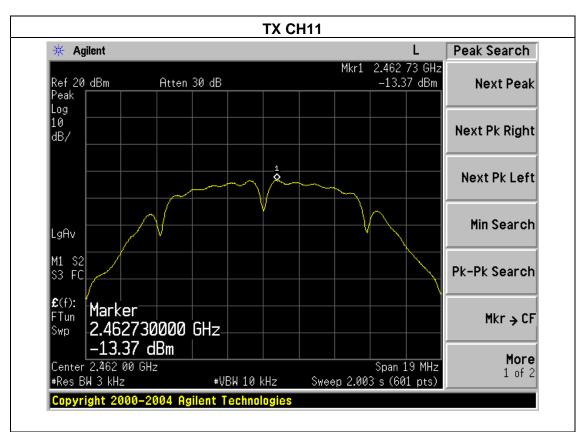
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-6.85	8	PASS
2437 MHz	-13.22	8	PASS
2462 MHz	-13.37	8	PASS







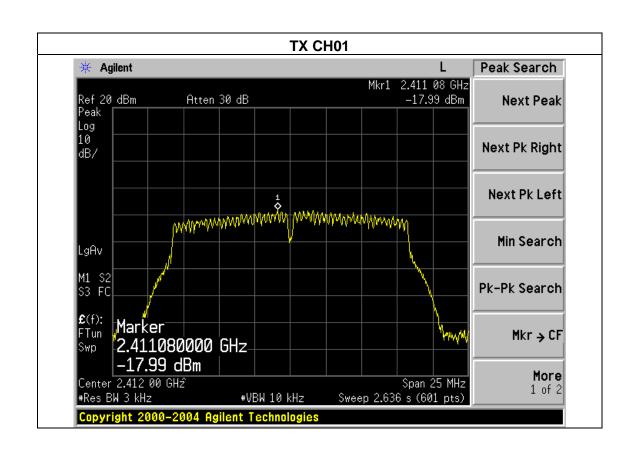




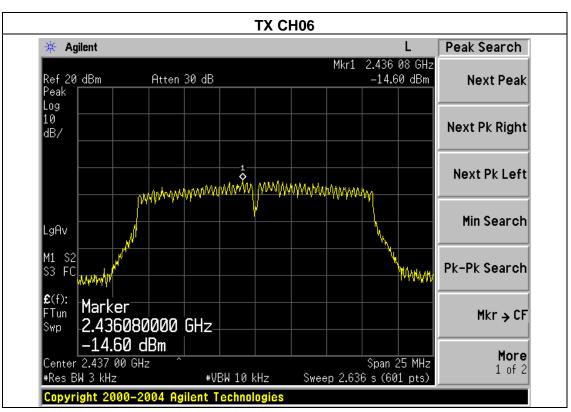
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

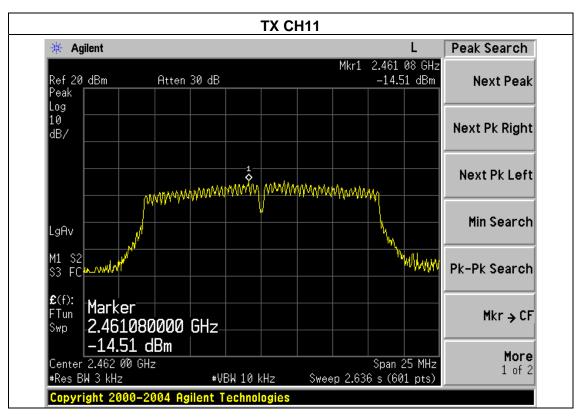
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-17.99	8	PASS
2437 MHz	-14.60	8	PASS
2462 MHz	-14.51	8	PASS







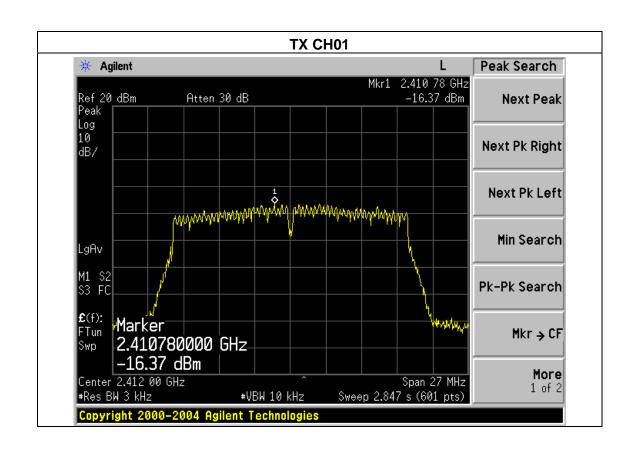




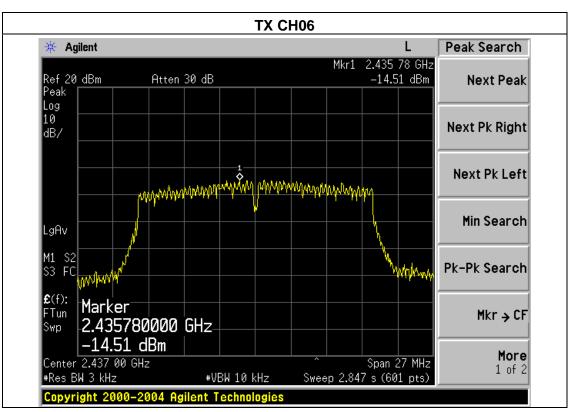
		_	
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

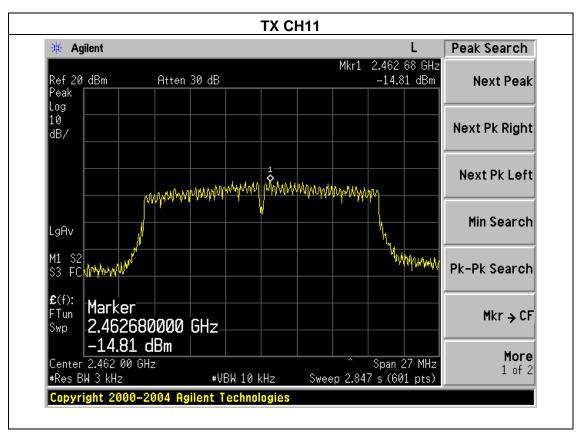
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-16.37	8	PASS
2437 MHz	-14.51	8	PASS
2462 MHz	-14.81	8	PASS







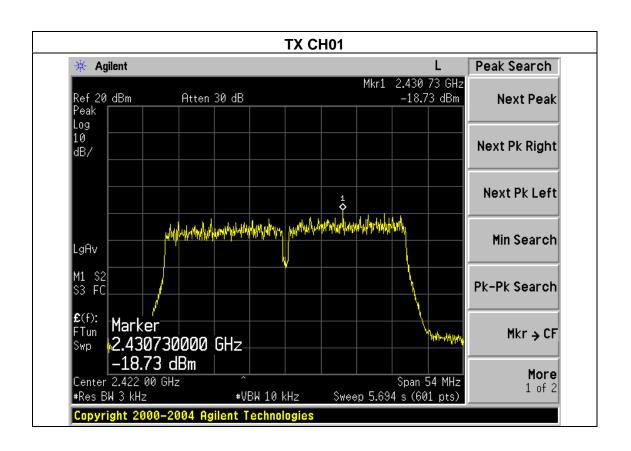




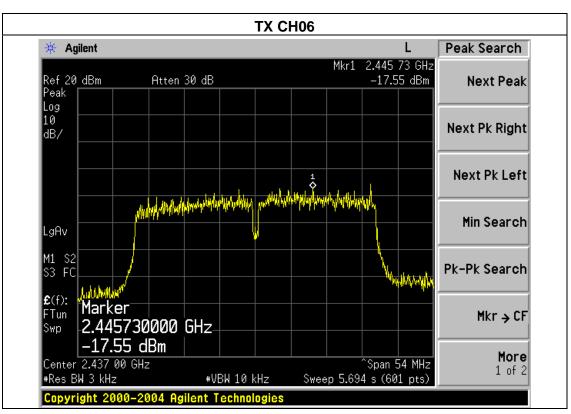
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH01, CH06	6. CH11	

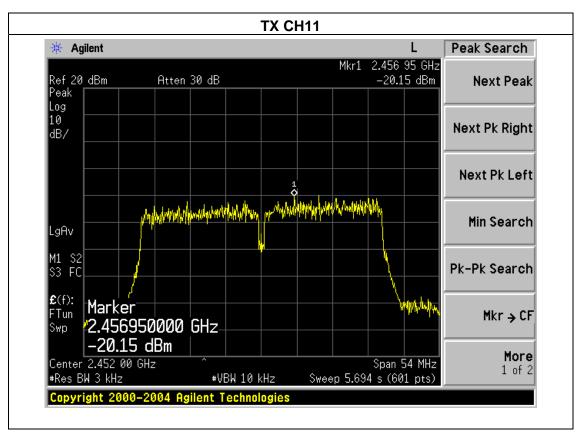
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-18.73	8	PASS
2437 MHz	-17.55	8	PASS
2462 MHz	-20.15	8	PASS











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.

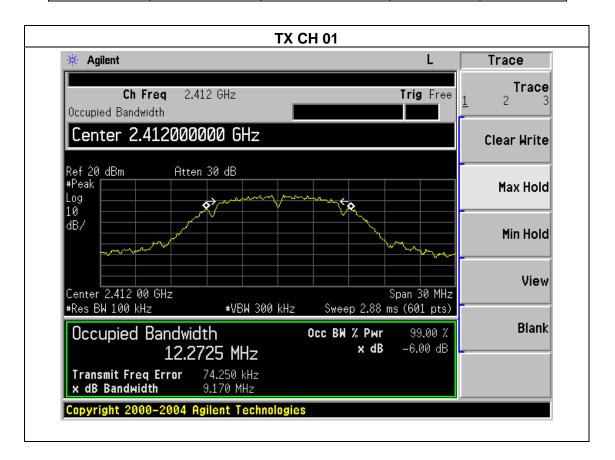


5.1.3 TEST RESULTS

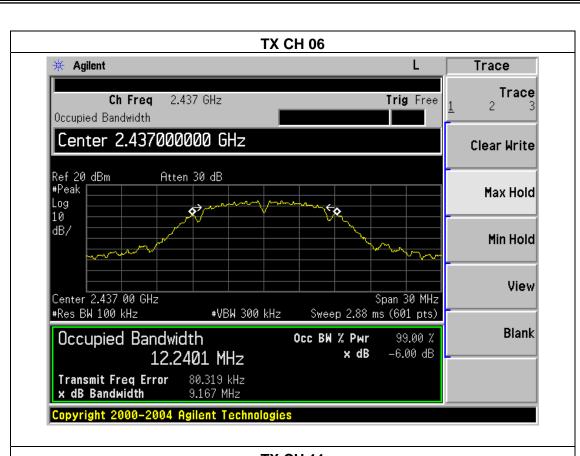
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT	
Temperature :	25 ℃	Relative Humidity:	56%	
Pressure :	1012 hPa	Test Voltage :	DC 3.8V	
Test Mode :	TX b Mode /CH01, CH06, CH11			

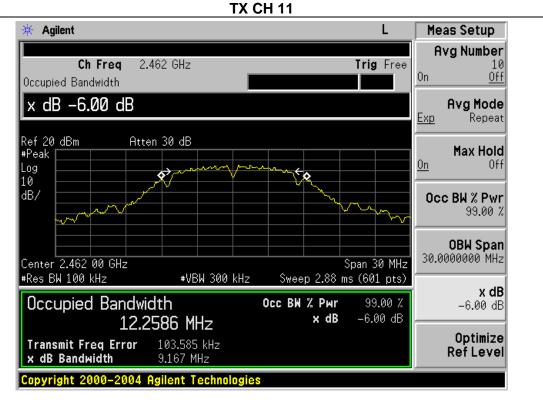
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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.170	500	Pass
Middle	2437	9.167	500	Pass
High	2462	9.167	500	Pass







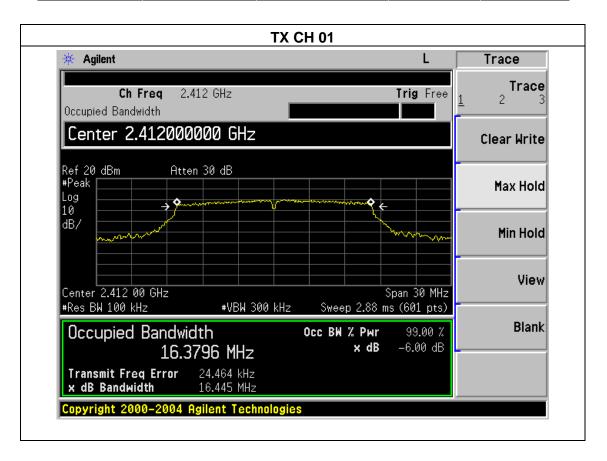




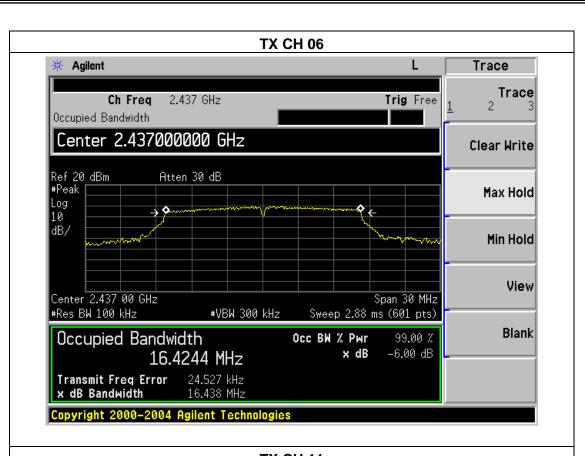
		_	_
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

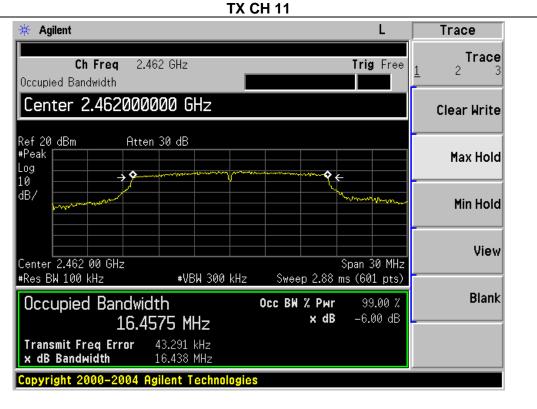
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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.445	500	Pass
Middle	2437	16.438	500	Pass
High	2462	16.438	500	Pass







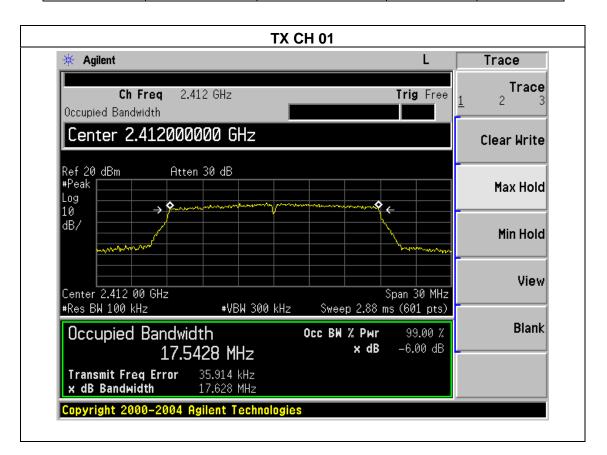




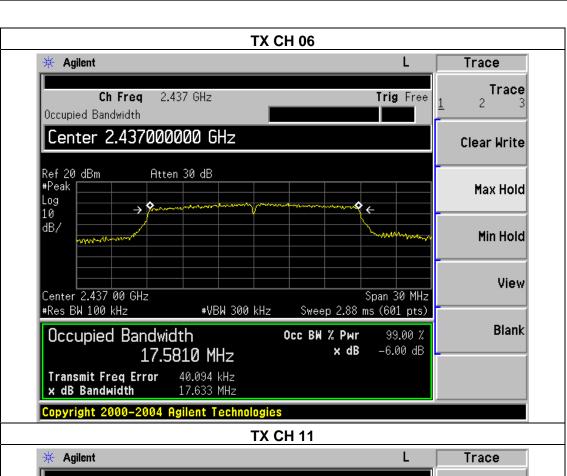
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06	6, CH11	

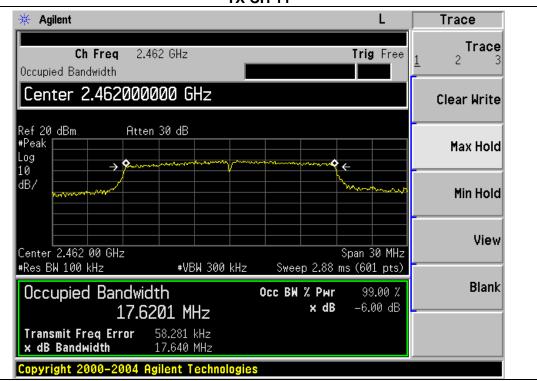
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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.628	500	Pass
Middle	2437	17.633	500	Pass
High	2462	17.640	500	Pass







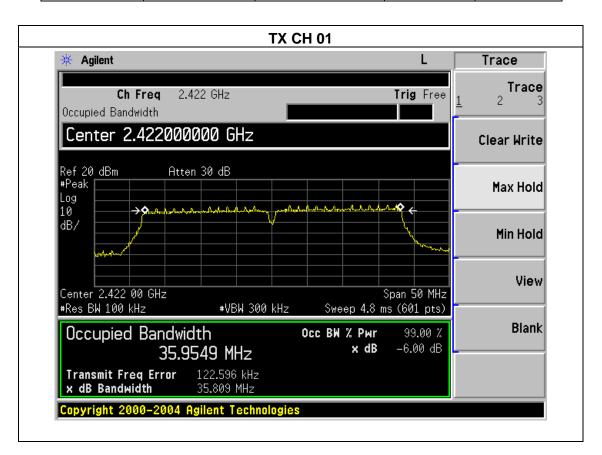




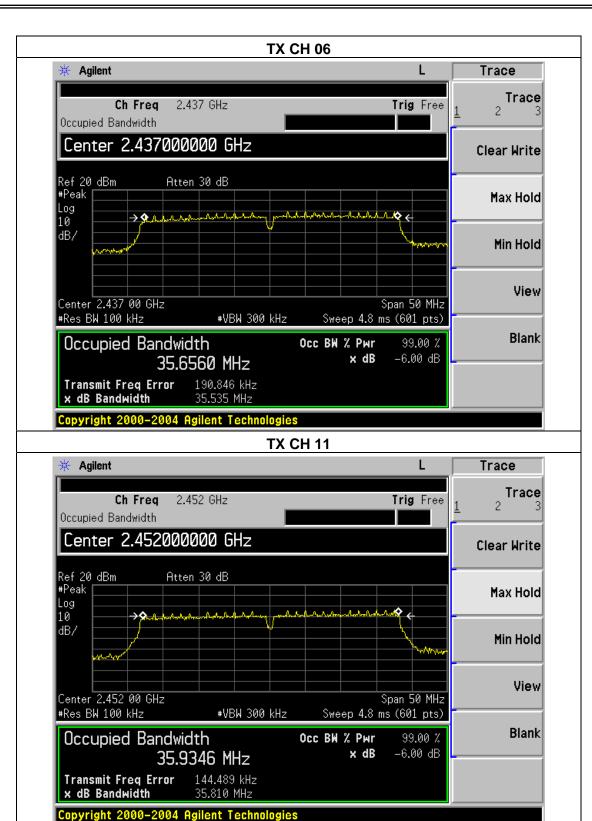
EUT:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH01, CH06, CH11		

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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	35.809	500	Pass
Middle	2437	35.535	500	Pass
High	2462	35.810	500	Pass









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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	METER
	TONLIK	MIL 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:	NOBUX™ SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b/g/n20/n40 Mode		

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TX 802.11b Mode								
T4	Frequency	Maximum Conducted Maximum Conducted		LINALT				
Test Channe		Output Power(PK)	Output Power(AV)	LIMIT				
	(MHz)	(dBm)	(dBm)	(dBm)				
CH01	2412	12.87	9.47	30				
CH06	2437	12.89	9.58	30				
CH11	2462	12.65	9.43	30				
	TX 802.11g Mode							
CH01	2412	11.58	8.45	30				
CH06	2437	11.75	8.62	30				
CH11	2462	11.69	8.56	30				
TX 802.11n-HT20 Mode								
CH01	2412	10.58	8.35	30				
CH06	2437	10.66	8.43	30				
CH11	2462	10.25	8.02	30				
TX 802.11n-HT40 Mode								
CH03	2422	9.77	7.35	30				
CH06	2437	9.65	7.23	30				
CH09	2452	9.37	6.95	30				

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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:	NOBUX™	SMART VOLT	Model Name :	SMART VOLT
Temperature :	25 ℃		Relative Humidity:	56%
Pressure:	1012 hPa		Test Voltage :	DC 3.8V

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Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result			
	802.11b					
2400	53.15	20	Pass			
2483.5	54.87	20	Pass			
802.11g						
2400	24.16	20	Pass			
2483.5	26.89	20	Pass			
802.11n20						
2400	34.29	20	Pass			
2483.5	31.08	20	Pass			



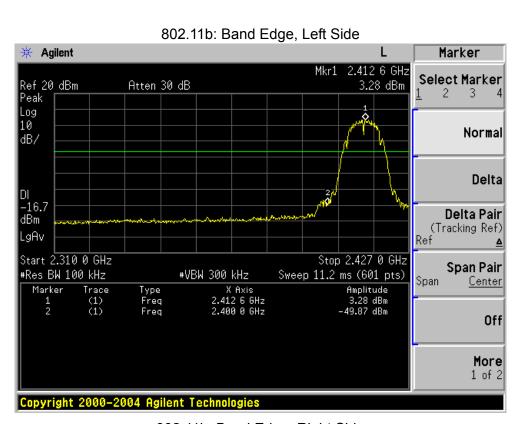
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Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
802.11b							
2390	58.67	-13.06	45.61	74	-28.39	peak	Vertical
2390	58.4	-13.06	45.34	74	-28.66	peak	Horizontal
2483.5	59.59	-12.78	46.81	74	-27.19	peak	Vertical
2483.5	59.61	-12.78	46.83	74	-27.17	peak	Horizontal
			802.11g				
2390	58.25	-13.06	45.19	74	-28.81	peak	Vertical
2390	57.48	-13.06	44.42	74	-29.58	peak	Horizontal
2483.5	58.97	-12.78	46.19	74	-27.81	peak	Vertical
2483.5	59.36	-12.78	46.58	74	-27.42	peak	Horizontal
			802.11n20				
2390	61.18	-13.06	48.12	74	-25.88	peak	Vertical
2390	60.96	-13.06	47.9	74	-26.10	peak	Horizontal
2483.5	61.1	-12.78	48.32	74	-25.68	peak	Vertical
2483.5	61.24	-12.78	48.46	74	-25.54	peak	Horizontal
802.11n20							
2390	61.94	-13.06	48.88	74	-25.12	peak	Vertical
2390	63.09	-13.06	50.03	74	-23.97	peak	Horizontal
2483.5	61.59	-12.78	48.81	74	-25.19	peak	Vertical
2483.5	61.56	-12.78	48.78	74	-25.22	peak	Horizontal

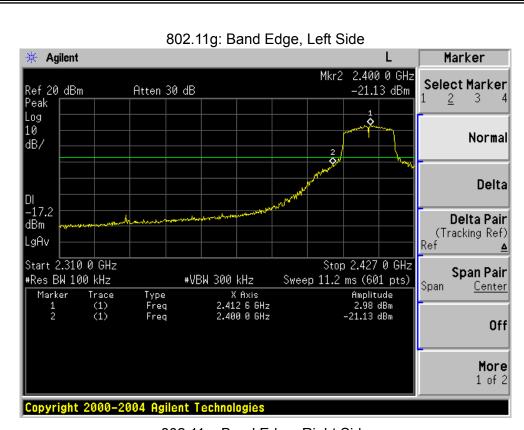
Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.





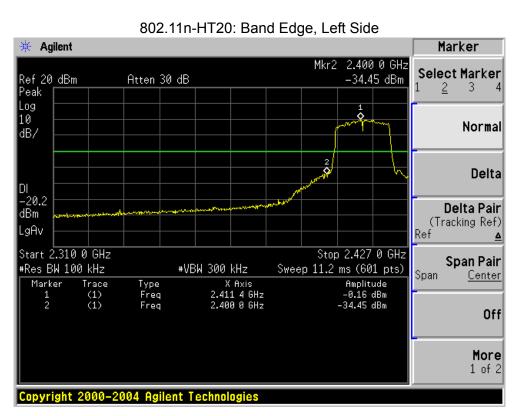
802.11b: Band Edge, Right Side Agilent Trace Mkr2 2.483 50 GHz Trace -49.28 dBm Ref 20 dBm Atten 30 dB Peak Log 10 Clear Write dB/ Max Hold $\gamma \gamma \gamma$ -14.3 dBm Min Hold LgAv Start 2.447 00 GHz Stop 2.500 00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.08 ms (601 pts) View Trace (1) (1) Type Freq X Axis 2.461 49 GHz 2.483 50 GHz Amplitude 5.59 dBm -49.28 dBm Marker Freq **Blank** Copyright 2000-2004 Agilent Technologies





802.11g: Band Edge, Right Side Agilent Marker Mkr1 2.462 90 GHz Select Marker 4.90 dBm Ref 20 dBm Atten 30 dB Peak Log 10 Normal dB/ ΔΑΑ.... Delta -15.1 dBm Delta Pair (Tracking Ref) LgAv Start 2.447 00 GHz Stop 2.500 00 GHz Span Pair #Res BW 100 kHz #VBW 300 kHz Sweep 5.08 ms (601 pts) Span <u>Center</u> Trace (1) (1) Type Freq X Axis 2.462 90 GHz 2.483 50 GHz Amplitude 4.90 dBm -21.99 dBm Marker Freq Off More 1 of 2 Copyright 2000-2004 Agilent Technologies









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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 p	permanent attached	l antenna. It co	omply with	the standard	requirement.
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9. EUT TEST PHOTO









Conducted Measurement Photos



