FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Proware Technologies Co., Ltd.

3G Wireless N Nano Router

Model No.: PW-3G401M

FCC ID: WWM3G401MV1

Prepared for: Proware Technologies Co., Ltd.

2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F12242

Date of Test : Sep.23~Nov.07, 2012

Date of Report : Nov.14 2012



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TEST REPORT CERTIFICATION

Applicant

Proware Technologies Co., Ltd.

Manufacturer

Proware Technologies Co., Ltd.

EUT Description

3G Wireless N Nano Router

FCC ID

WWM3G401MV1

(A) MODEL NO.

PW-3G401M

(B) SERIAL NO.

N/A

(C) POWER SUPPLY: DC 5V From Adapter Input

(D) TEST VOLTAGE: DC 5V From Adapter Input AC 120V/60Hz

Tested for comply with:

FCC Rules and Regulations Part 15 Subpart C: 2011

Sen 23~ Nov 07 2012

Test procedure used:

ANSI C63.10:2009

Date of Test .

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test.	3cp.23 110v.07, 2012	Report of date	Nov.14 2012
Prepared by : _	Selma Lin	Reviewed by :	4/1
	Selina Liu / Supervisor	◎ 信華科技(深圳) 🖁	Sunny Lu / Assistant Manager
			(Shenzhen) Co., Ltd.
	The state of the s	EMC 部門報告.	專用章
		Stamp only for EMC D	Dept. Report
Approved & Au	thorized Signer :	Signature:	lu 1/5 15

Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION						
Description of Test Item	Standard	Results				
Power Line Conducted Emission	FCC Part 15: 15.207	PASS				
	ANSI C63.10: 2009					
Radiated Emission	FCC Part 15: 15.209	PASS				
Radiated Linission	ANSI C63.10: 2009	11100				
Band Edge Compliance	FCC Part 15: 15.247	PASS				
Band Edge Compitance	ANSI C63.10: 2009	TASS				
Conducted spurious emissions	FCC Part 15: 15.247					
Conducted spurious emissions	ANSI C63.10: 2009	PASS				
6dB Bandwidth	FCC Part 15: 15.247	PASS				
odb balldwidti	ANSI C63.10: 2009	I ASS				
Dook Output Down	FCC Part 15: 15.247	PASS				
Peak Output Power	ANSI C63.10: 2009	rass				
Downer Constrol Donoite	FCC Part 15: 15.247	DACC				
Power Spectral Density	KDB558074	PASS				
Antenna requirement	FCC Part 15: 15.203	PASS				



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2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product Name : 3G Wireless N Nano Router

Model Number : PW-3G401M

FCC ID : WWM3G401MV1

Operation Frequency: IEEE 802.11b: 2412MHz—2462MHz

IEEE 802.11g: 2412MHz—2462MHz

IEEE802.11n HT20: 2412MHz—2462MHz IEEE802.11n HT40: 2422MHz—2452MHz

Channel Number : IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels

IEEE 802.11n HT40: 7Channels

Modulation Technology : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,

QPSK,BPSK)

Antenna Assembly Gain : PCB Antenna, 0dBi Gain

Applicant : Proware Technologies Co., Ltd.

2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen

Manufacturer : Proware Technologies Co., Ltd.

2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen

Power Adapter : Manufacturer: Huntkey., M/N: HKA00605010-4B

USB Cable Unshielded, Detachable, 0.8m

Date of Test : Sep.23~Nov.07, 2012

Date of Receipt : Sep.20, 2012

Sample Type : Prototype production



2.2.Test Information

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information							
Mode	data rate	Channel	Frequency				
	(Mpbs)(see Note)		(MHz)				
IEEE 802.11b	1	Low:CH1	2412				
	1	Middle: CH6	2437				
	1	High: CH11	2462				
IEEE 802.11g	6	Low:CH1	2412				
	6	Middle: CH6	2437				
	6	High: CH11	2462				
IEEE 802.11n HT20	6.5	Low:CH1	2412				
	6.5	Middle: CH6	2437				
	6.5	High: CH11	2462				
IEEE 802.11n HT40	13.5	Low:CH1	2422				
	13.5	Middle: CH4	2437				
	13.5	High: CH7	2452				

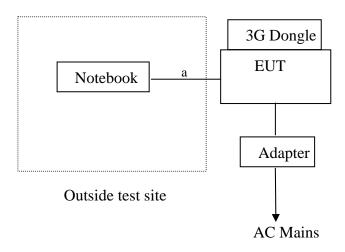
Note 1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.



2.3.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Notebook	Test PC R	DELL	D430	PPHY	☑FCC DoC ☑BSMI ID: R41108

2.4. Block Diagram of Test Setup



a: LAN Cable

(EUT: 3G Wireless N Nano Router)



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2.5. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen

Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 90454 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232 Valid Date: Dec.30, 2012

EMC Lab. : Certificated by Industry Canada

Registration Number: IC 5183A-1

Valid Date: Jun.13, 2014

: Certificated by DAkkS, Germany Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2013

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty			
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB (150KHz to 30MHz)			
	3.6 dB(30~200MHz, Polarize: H)			
Uncertainty for Radiation Emission test	3.8 dB(30~200MHz, Polarize: V)			
in 3m chamber	4.2 dB(200M~1GHz, Polarize: H)			
	3.8 dB(200M~1GHz, Polarize: V)			
Uncertainty for Radiation Emission test in	3.1dB (Distance: 3m Polarize: V)			
3m chamber (1GHz-18GHz)	3.7 dB (Distance: 3m Polarize: H)			
Uncertainty for Radiated Spurious	3.57 dB			
Emission test in RF chamber	5.57 db			
Uncertainty for Conduction Spurious	2.00 dB			
emission test	0.72 JD			
Uncertainty for Output power test	0.73 dB			
Uncertainty for Power density test	2.00 dB			
Uncertainty for Frequency range test	$7x10^{-8}$			
Uncertainty for Bandwidth test	83 kHz			
Uncertainty for DC power test	0.038 %			
Uncertainty for test site temperature and	0.6℃			
humidity	3%			

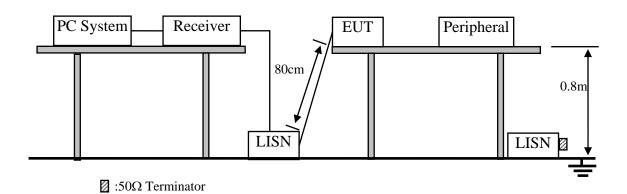


3. POWER LINE CONDUCTED EMISSION MERSUREMENT

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 11	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 11	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 12	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 12	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 12	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 12	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 12	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 12	1 Year

3.2.Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

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

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1.3G Wireless N Nano Router (EUT)

Model Number : PW-3G401M

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

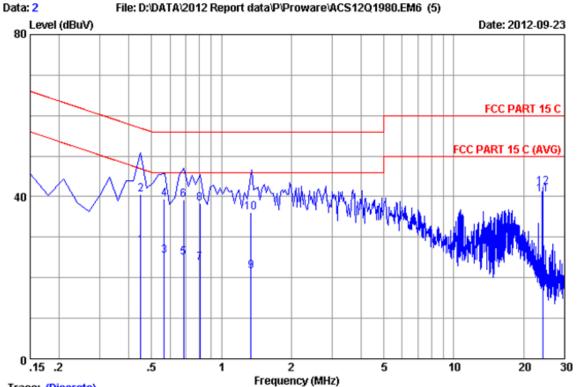
The bandwidth of test receiver (R & S ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)





Trace: (Discrete)

Site no :1#conduction Data No :2

Dis./Ant. :** 2012 ESH2-Z5 LINE

Limit :FCC PART 15 C

Env./Ins. :24.5*C/55% Engineer :Leo_Li

EUT :3G Wireless N Nano Router

Power Rating :DC 5V From Adapter Input AC 120V/60Hz

Test Mode : Tx Mode

:M/N:PW-3G401M

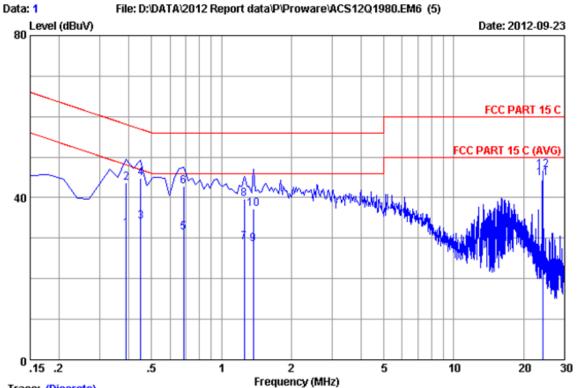
:

		LISN	Cable		Emission	n		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.44800	0.16	9.95	17.80	27.91	46.91	19.00	Average
2	0.44800	0.16	9.95	30.50	40.61	56.91	16.30	QP
3	0.56700	0.16	9.95	15.30	25.41	46.00	20.59	Average
4	0.56700	0.16	9.95	29.40	39.51	56.00	16.49	QP
5	0.68700	0.16	9.95	14.80	24.91	46.00	21.09	Average
6	0.68700	0.16	9.95	29.10	39.21	56.00	16.79	QP
7	0.80600	0.16	9.95	13.40	23.51	46.00	22.49	Average
8	0.80600	0.16	9.95	28.30	38.41	56.00	17.59	QP
9	1.340	0.18	9.94	11.60	21.72	46.00	24.28	Average
10	1.340	0.18	9.94	25.90	36.02	56.00	19.98	QP
11	24.150	0.61	10.11	29.80	40.52	50.00	9.48	Average
12	24.150	0.61	10.11	31.70	42.42	60.00	17.58	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





Trace: (Discrete)

Site no :1#conduction Data No :1

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 C

Env./Ins. :24.5*C/55% Engineer :Leo Li

EUT :3G Wireless N Nano Router

Power Rating :DC 5V From Adapter Input AC 120V/60Hz

Test Mode : Tx Mode

:M/N:PW-3G401M

:

		LISN	Cable		Emission	ı		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.38800	0.15	9.95	22.29	32.39	48.11	15.72	Average
2	0.38800	0.15	9.95	33.49	43.59	58.11	14.52	QP
3	0.44800	0.15	9.95	24.00	34.10	46.91	12.81	Average
4	0.44800	0.15	9.95	34.80	44.90	56.91	12.01	QP
5	0.68700	0.16	9.95	21.30	31.41	46.00	14.59	Average
6	0.68700	0.16	9.95	32.60	42.71	56.00	13.29	QP
7	1.250	0.18	9.94	18.90	29.02	46.00	16.98	Average
8	1.250	0.18	9.94	29.50	39.62	56.00	16.38	QP
9	1.370	0.18	9.94	18.50	28.62	46.00	17.38	Average
10	1.370	0.18	9.94	27.00	37.12	56.00	18.88	QP
11	24.150	0.36	10.11	34.40	44.87	50.00	5.13	Average
12	24.150	0.36	10.11	36.30	46.77	60.00	13.23	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



4. RADIATED EMISSION MEASUREMENT

4.1.Test Equipment

4.1.1. For frequency range 30MHz~1000MHz (At Anechoic Chamber)

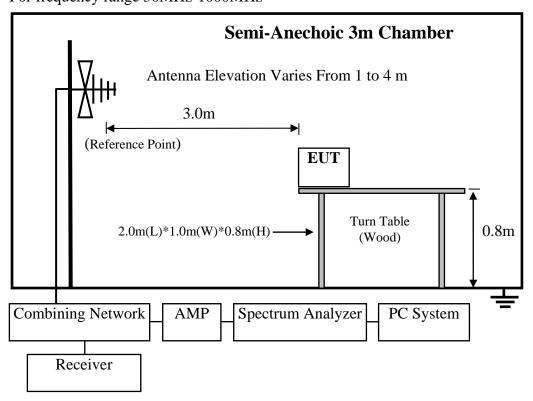
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.28,11	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 12	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 12	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 12	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.26, 10	2.0 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 12	1 Year

4.1.2. For frequency range 1GHz~25GHz (At Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 12	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	June.05, 12	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 12	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 12	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	1 Year
6	Horn Antenna	EMCO	3116	00060089	May.08, 12	1.5Year

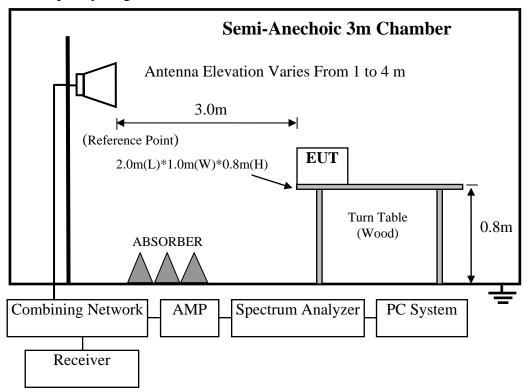
4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit

4.3.1.15.209 limits

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT	
MHz	Meters	μV/m	$dB(\mu V)/m$	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500	54.0	
Above 1000	3	74.0 dB(µV)/m (Peak)		
		54.0 dB(µV)/m (Average		

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2.15.205 Restricted bands of operation

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)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.



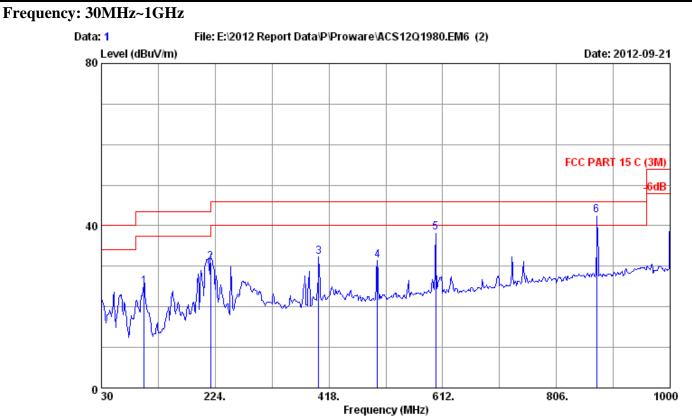
4.7. Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.





Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 C (3M)

Env. / Ins. : 24*C/56% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power rating : DC 5V From Adapter Input AC 120V/60Hz

Test Mode : Tx Mode

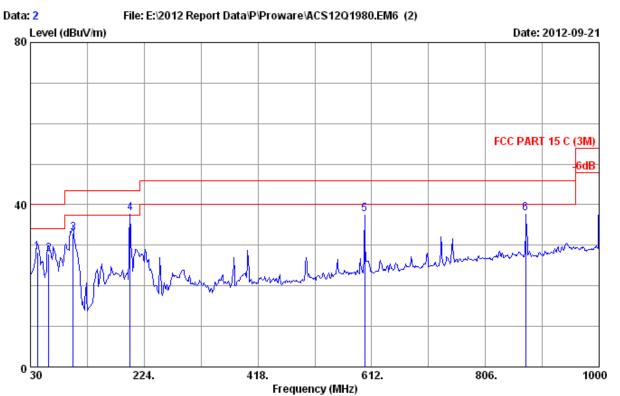
M/N:PW-3G401M

_	No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	102.750	9.88	0.85	14.13	24.86	43.50	18.64	QP
	2	216.240	9.75	1.11	20.07	30.93	46.00	15.07	QP
	3	400.540	16.70	1.56	14.13	32.39	46.00	13.61	QP
	4	500.450	19.09	1.83	10.47	31.39	46.00	14.61	QP
	5	600.000	20.20	2.11	16.10	38.41	46.00	7.59	QP
	6	875.000	23.39	2.78	16.30	42.47	46.00	3.53	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 C (3M)

Env. / Ins. : 24*C/56% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power rating : DC 5V From Adapter Input AC 120V/60Hz

Test Mode : Tx Mode

M/N:PW-3G401M

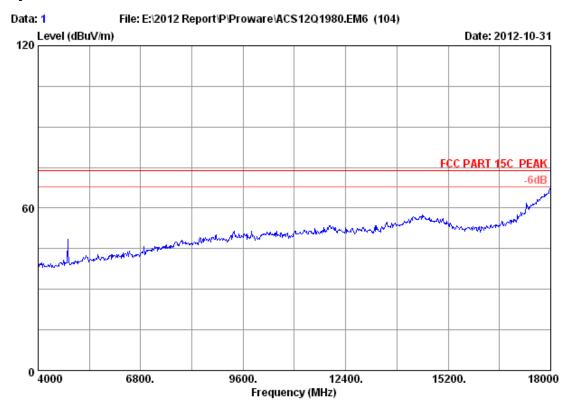
No	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.640	12.44	0.57	15.26	28.27	40.00	11.73	QP
2	61.040	5.41	0.66	21.86	27.93	40.00	12.07	QP
3	102.750	9.88	0.85	22.31	33.04	43.50	10.46	QP
4	200.000	9.37	1.06	27.48	37.91	43.50	5.59	QP
5	600.000	20.20	2.11	15.45	37.76	46.00	8.24	QP
6	875.000	23.39	2.78	11.80	37.97	46.00	8.03	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



Frequency: 1GHz~18GHz



Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

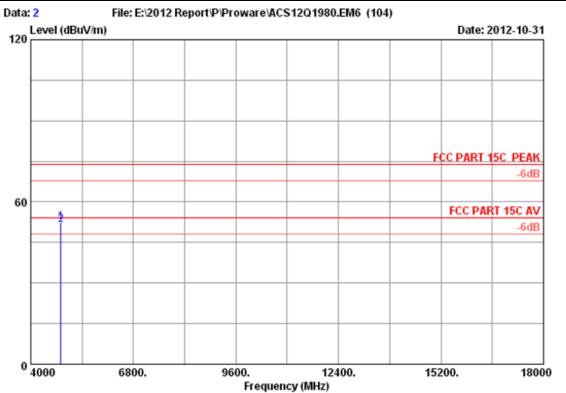
EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 1 2412MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply: DC 5V From Adapter Input AC 120V/60Hz

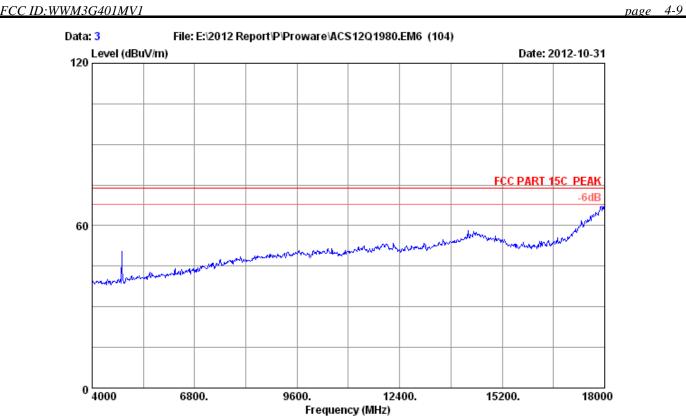
Test mode : IEEE802.11b CH 1 2412MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	4824.000	32.51	8.69	35.71	46.86	52.35	74.00	21.65	Peak
2	4824.000	32.51	8.69	35.71	45.90	51.39	54.00	2.61	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 3

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

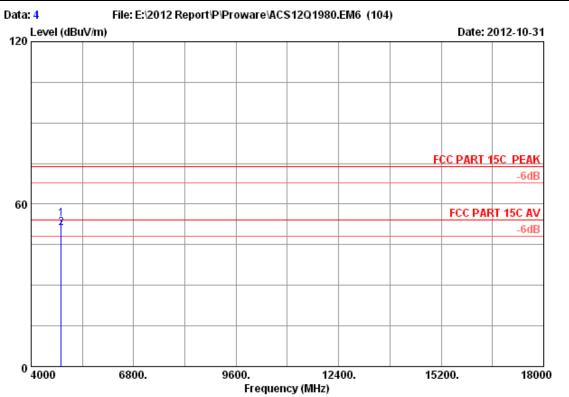
EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 1 2412MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

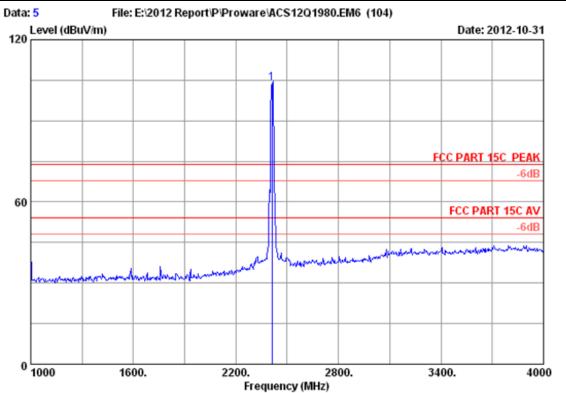
Test mode : IEEE802.11b CH 1 2412MHz Tx

M/N : PW-3G401M

		Ant.	Cable	Amp.		Emission			
	Freq. (MHz)	Factor (dB/m)			_	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.51	8.69	35.71	48.97	54.46	74.00	19.54	Peak
2	4824.000	32.51	8.69	35.71	45.78	51.27	54.00	2.73	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 5

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply: DC 5V From Adapter Input AC 120V/60Hz

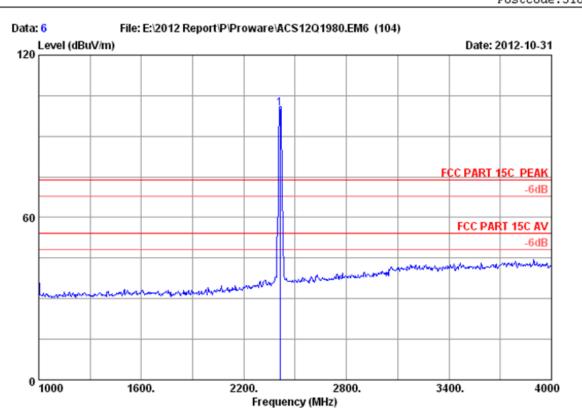
Test mode : IEEE802.11b CH 1 2412MHz Tx

M/N : PW-3G401M

	Freq.		loss	Factor	Reading	Emission Level (dBuV/m)	Limits	_	Remark	
1	2412.000	26.84	6.04	35.92	107.11	104.07	74.00	-30.07	Peak	

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 6

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

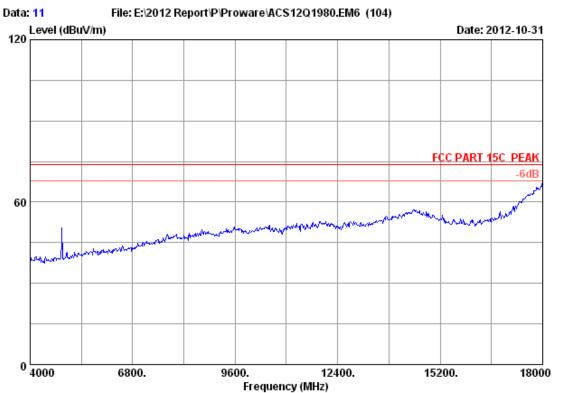
Test mode : IEEE802.11b CH 1 2412MHz Tx

M/N : PW-3G401M

	Freq.			Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	103.39	100.35	74.00	-26.35	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 11

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

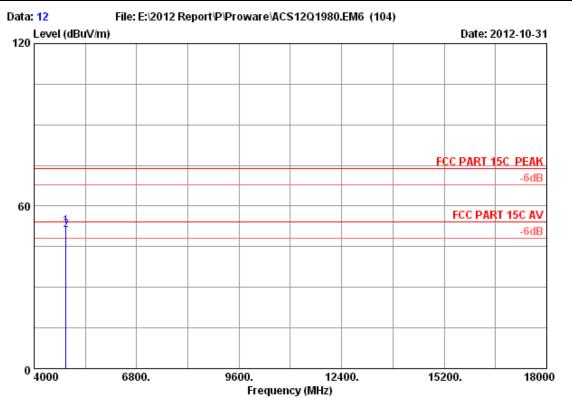
EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 6 2437MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 12

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

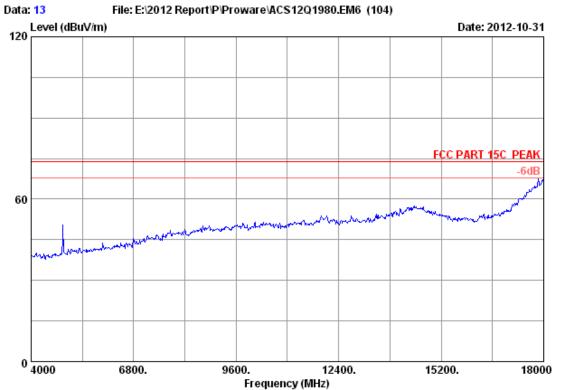
Test mode : IEEE802.11b CH 6 2437MHz Tx

M/N : PW-3G401M

Freq. (MHz)		Factor	_	Emission Level (dBuV/m)	Limits		Remark
4874.000 4874.000	8.73 8.73		46.78 45.52	52.44 51.18	74.00 54.00	21.56 2.82	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 13

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

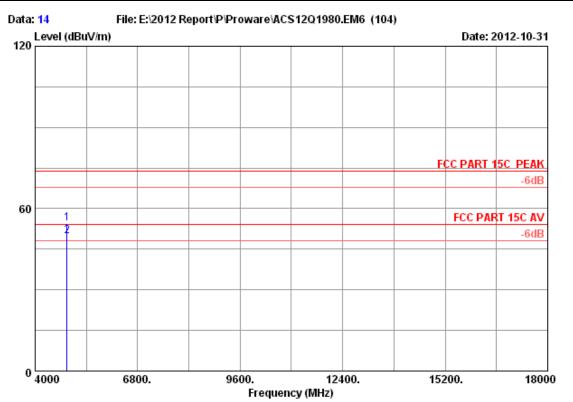
EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 6 2437MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 14

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply: DC 5V From Adapter Input AC 120V/60Hz

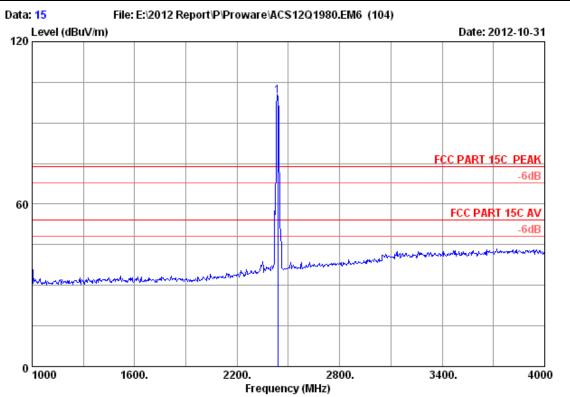
Test mode : IEEE802.11b CH 6 2437MHz Tx

M/N : PW-3G401M

	Ant.	Cable	Amp.		Emission			
Freq. (MHz)	Factor (dB/m)		Factor (dB)	_	Level (dBuV/m)		_	Remark
4874.000 4874.000			35.69 35.69	48.71 44.00	54.37 49.66	74.00 54.00	19.63 4.34	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

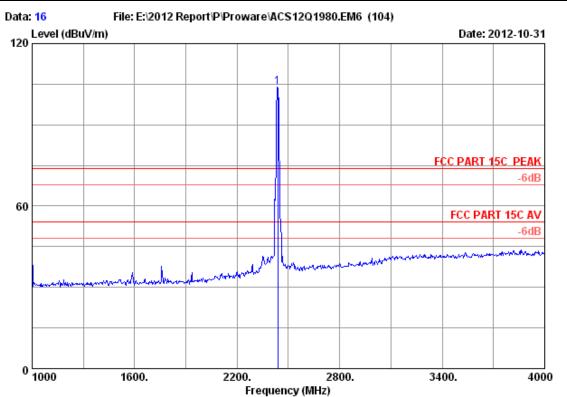
Test mode : IEEE802.11b CH 6 2437MHz Tx

M/N : PW-3G401M

	-		loss	Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	102.86	100.02	74.00	-26.02	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 16

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 6 2437MHz Tx

M/N : PW-3G401M

	Freq. (MHz)	Ant. Factor (dB/m)	loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2437.000	27.00	6.08	35.92	106.94	104.10	74.00	-30.10	Peak

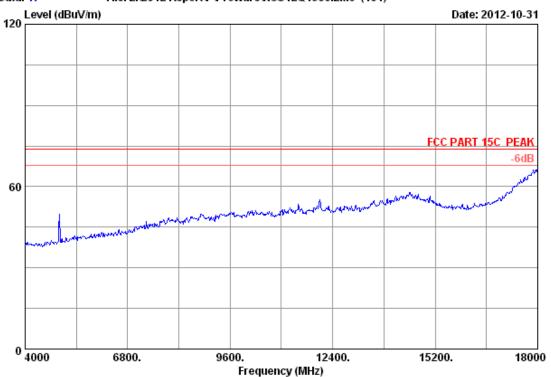
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



 FCC ID:WWM3G401MV1
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 Data: 17
 File: E:\2012 Report\P\Proware\ACS12Q1980.EM6 (104)

 Level (dBuV/m)
 Date: 2012-10-31



Site no. : 3m Chamber Data no. : 17

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

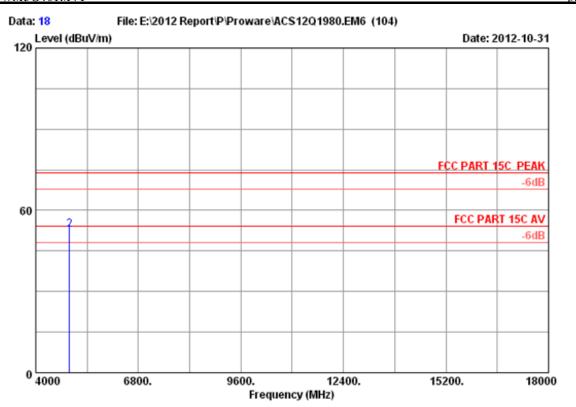
EUT : 3G Wireless N Nano Router

Power supply: DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 11 2462MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 18

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

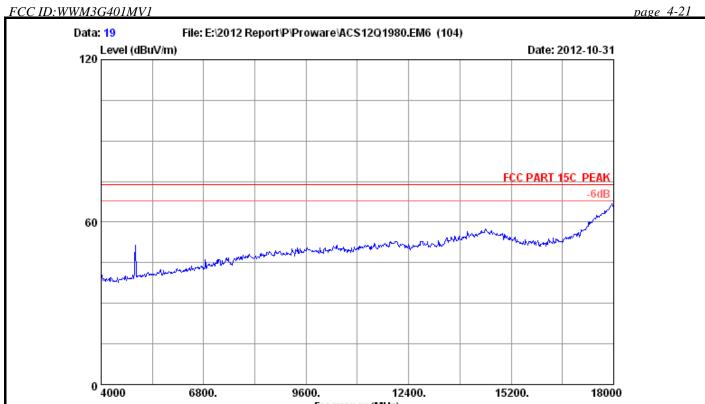
Test mode : IEEE802.11b CH 11 2462MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)		Reading (dBuV)		Limits (dBuV/m)	_	Remark
1 2	4924.000 4924.000			35.68 35.68	45.04 47.04	50.87 52.87	54.00 74.00	3.13 21.13	Average Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 19

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Frequency (MHz)

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

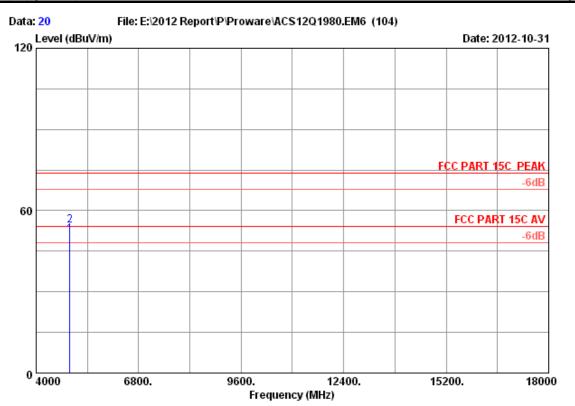
: 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH 11 2462MHz Tx

M/N: PW-3G401M





Site no. : 3m Chamber Data no. : 20

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply: DC 5V From Adapter Input AC 120V/60Hz

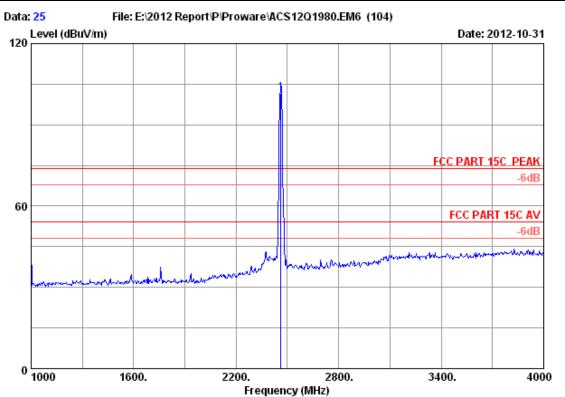
Test mode : IEEE802.11b CH 11 2462MHz Tx

M/N : PW-3G401M

	Ant.	Cable	Amp.		Emission			
Freq. (MHz)	Factor (dB/m)		Factor (dB)	_	Level (dBuV/m)		_	Remark
4924.000 4924.000		8.78 8.78		45.31 48.60	51.14 54.43	54.00 74.00	2.86 19.57	Average Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 25

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

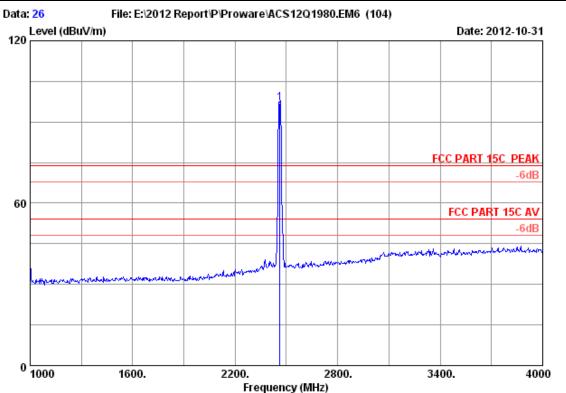
Test mode : IEEE802.11b CH 11 2462MHz Tx

M/N : PW-3G401M

	Freq. (MHz)		loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2462.000	27.16	6.12	35.92	104.42	101.78	74.00	-27.78	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

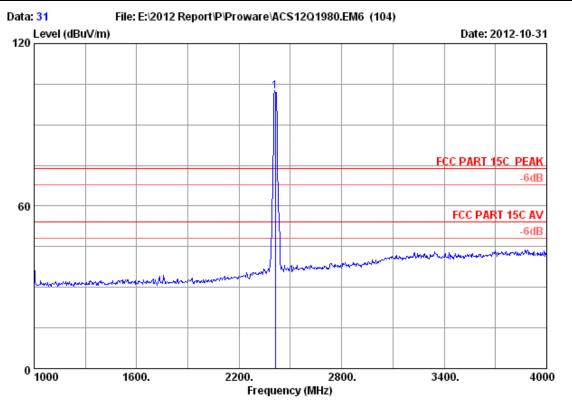
Test mode : IEEE802.11b CH 11 2462MHz Tx

M/N : PW-3G401M

	-		loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	99.49	96.85	74.00	-22.85	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

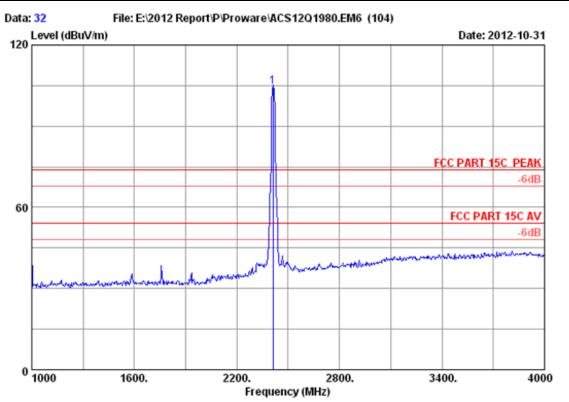
Test mode : IEEE802.11g CH 1 2412MHz Tx

M/N : PW-3G401M

	Freq. (MHz)	Ant. Factor (dB/m)	loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2412.000	26.84	6.04	35.92	105.38	102.34	74.00	-28.34	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 32

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 1 2412MHz Tx

M/N : PW-3G401M

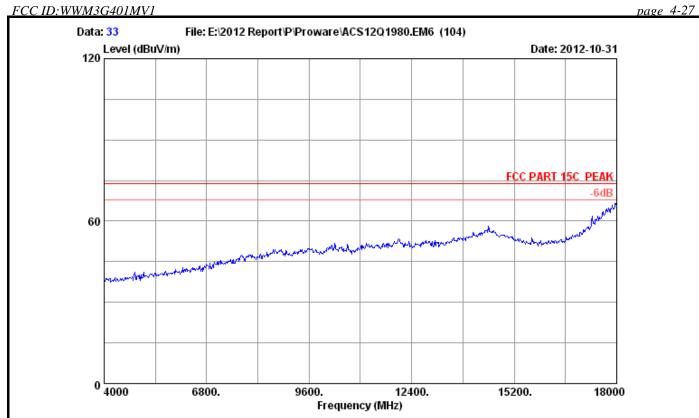
Freq.	Factor	Cable loss (dB)	Factor	Reading (dBuV)	Emission Level (dBuV/m)		Margin (dB)	Remark
2412.000	26.84	6.04	35.92	107.54	104.50	74.00	-30.50	Peak

Remarks:

1

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 33

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

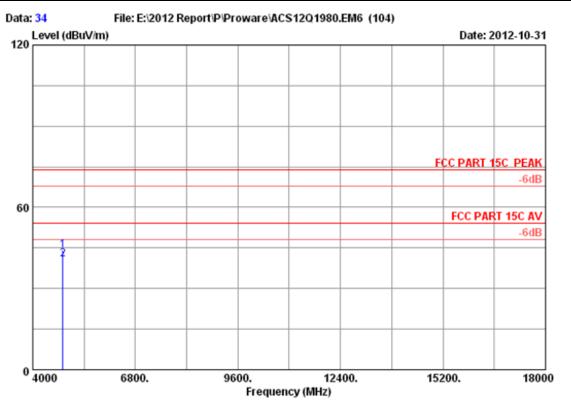
Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 1 2412MHz Tx





Site no. : 3m Chamber Data no. : 34

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 1 2412MHz Tx

M/N : PW-3G401M

	Freq.	Factor (dB/m)	 	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Remark
1 2	4824.000 4824.000		 35.71 35.71	38.74 35.45	44.23 40.94	74.00 54.00	29.77 13.06	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

18000



0 4000

Data: 35 File: E:\t2012 Report\tP\Proware\ACS12Q1980.EM6 (104)

Level (dBuV/m) Date: 2012-10-31

FCC PART 15C PEAK

60

60

Site no. : 3m Chamber Data no. : 35

9600.

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Frequency (MHz)

12400.

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

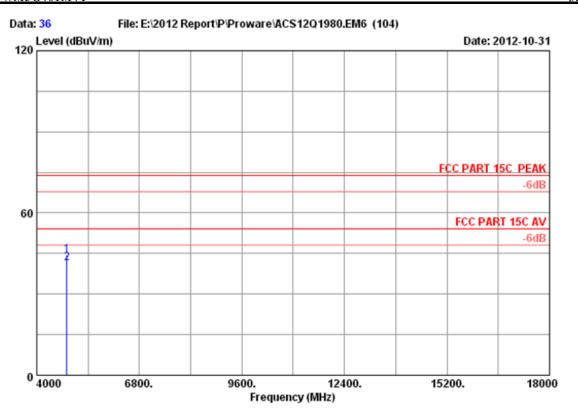
Power supply: DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 1 2412MHz Tx

M/N : PW-3G401M

6800.





Site no. : 3m Chamber Data no. : 36

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

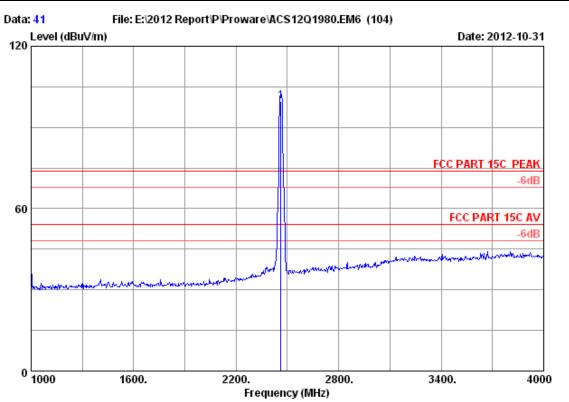
Test mode : IEEE802.11g CH 1 2412MHz Tx

M/N : PW-3G401M

Freq.	Ant. Factor (dB/m)	Cable loss (dB)	Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
4824.000 4824.000				39.11 35.89	44.60 41.38	74.00 54.00	29.40 12.62	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 41

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply: DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 11 2462MHz Tx

M/N : PW-3G401M

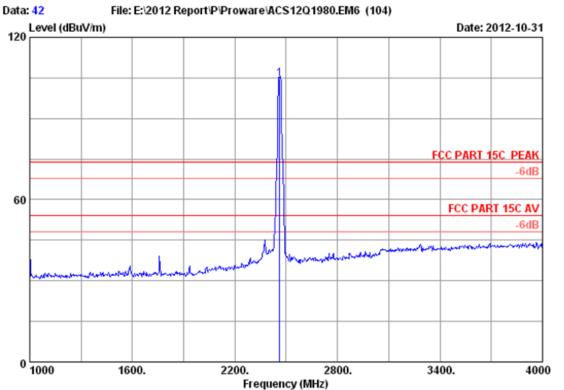
Freq. (MHz)			Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
2462.000	27.16	6.12	35.92	102.34	99.70	74.00	-25.70	Peak

Remarks:

1

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 42

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

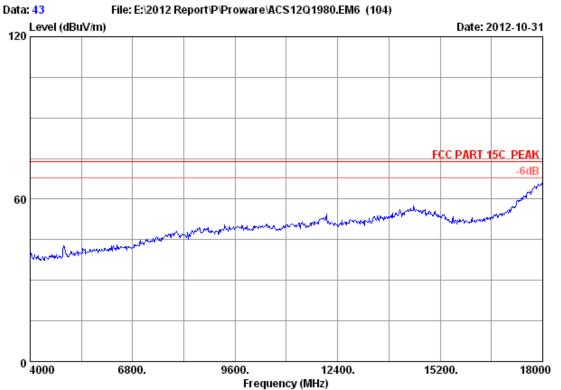
Test mode : IEEE802.11g CH 11 2462MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)	loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2462.000	27.16	6.12	35.92	107.28	104.64	74.00	-30.64	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 43

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

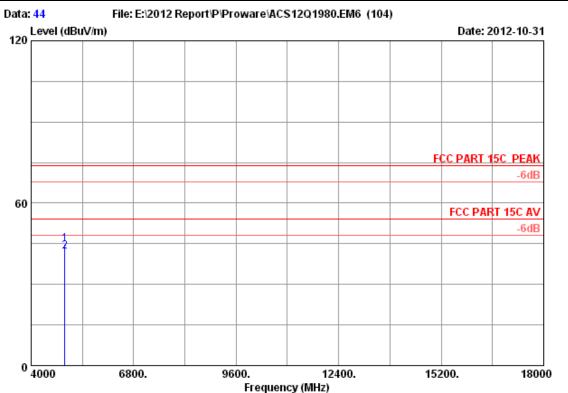
Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 11 2462MHz Tx





Site no. : 3m Chamber Data no. : 44

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 11 2462MHz Tx

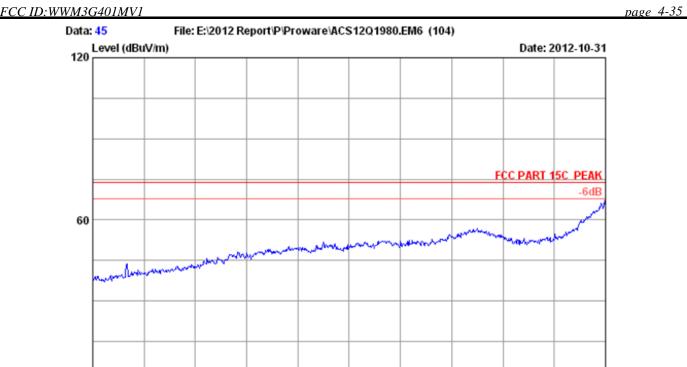
M/N : PW-3G401M

	Freq. (MHz)	Ant. Factor (dB/m)		Factor	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000 4924.000		8.78 8.78	35.68 35.68		44.75 42.28	74.00 54.00	29.25 11.72	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



0 4000



Site no. : 3m Chamber Data no. : 45

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Frequency (MHz)

12400.

15200.

18000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

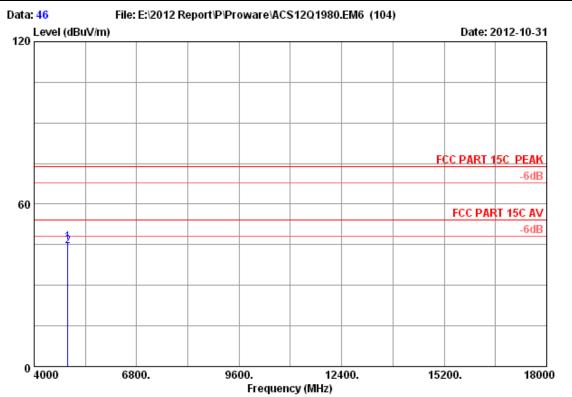
9600.

Test mode : IEEE802.11g CH 11 2462MHz Tx

M/N : PW-3G401M

6800.





Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

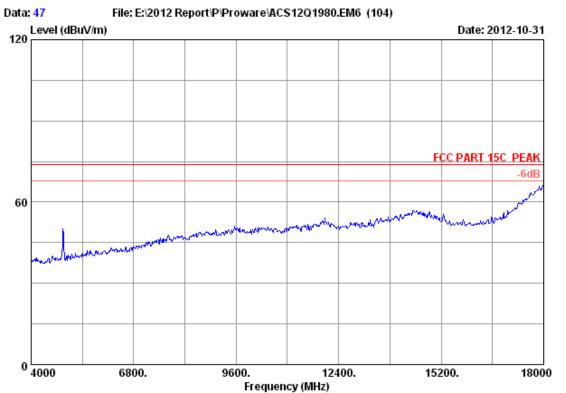
Test mode : IEEE802.11g CH 11 2462MHz Tx

M/N : PW-3G401M

		Ant.	Cable	Amp.		Emission			
	Freq. (MHz)	Factor (dB/m)			_	Level (dBuV/m)		_	Remark
	4924.000 4924.000		8.78 8.78		39.92 38.46	45.75 44.29	74.00 54.00	28.25 9.71	Peak Average
_									

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 47

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

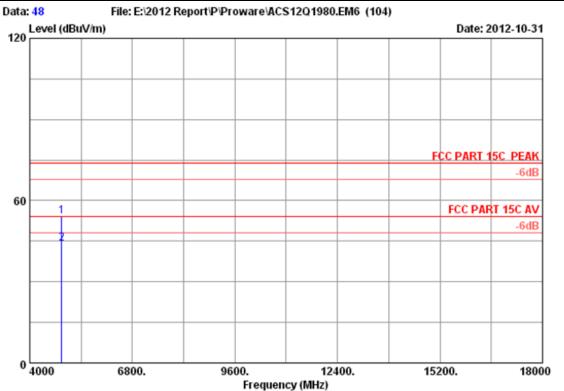
Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 6 2437MHz Tx





Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

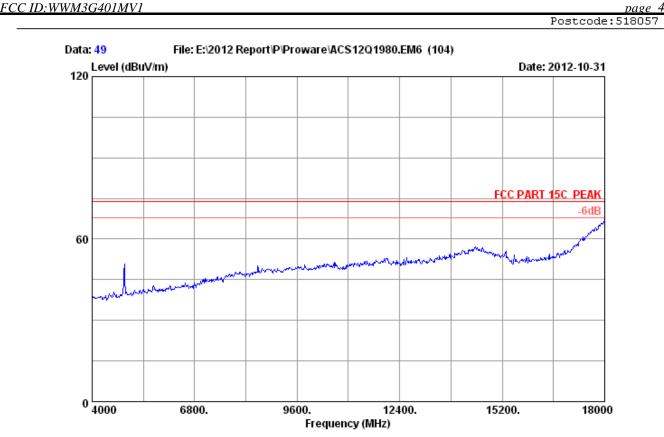
Test mode : IEEE802.11g CH 6 2437MHz Tx

M/N : PW-3G401M

Freq.	Ant. Factor (dB/m)	Cable loss (dB)	Factor	Reading (dBuV)	Emission Level (dBuV/m)		Margin (dB)	Remark
4874.000 4874.000			35.69 35.69	48.49 38.45	54.15 44.11	74.00 54.00	19.85 9.89	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 49

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

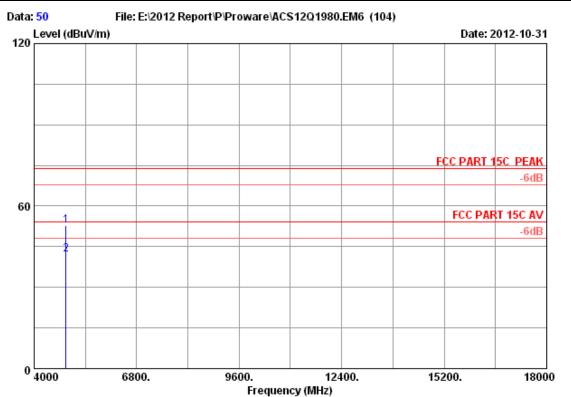
Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 6 2437MHz Tx





Site no. : 3m Chamber Data no. : 50

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

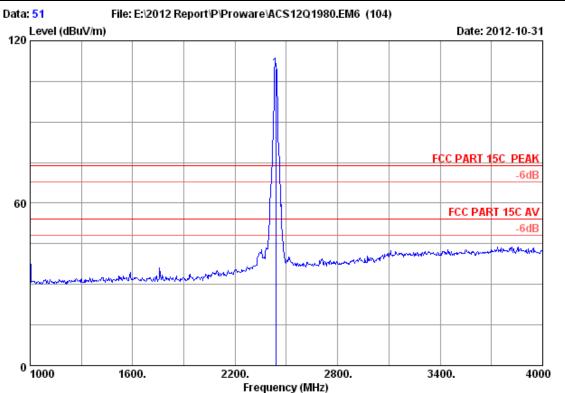
Test mode : IEEE802.11g CH 6 2437MHz Tx

M/N : PW-3G401M

 Freq. (MHz)	Factor (dB/m)		_	Level (dBuV/m)		Remark
874.000 874.000		8.73 8.73	 47.14 36.45		 21.20 11.89	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 51

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz

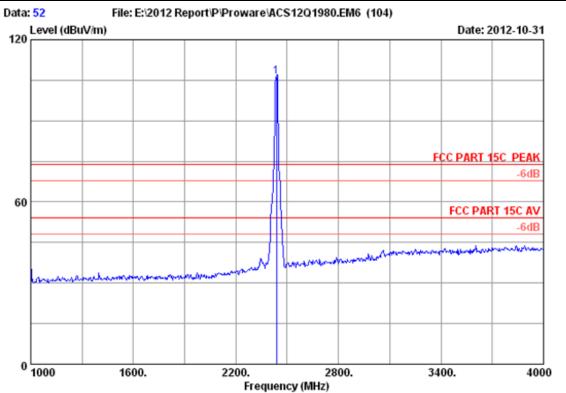
Test mode : IEEE802.11g CH 6 2437MHz Tx

M/N : PW-3G401M

	-		loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark	
1	2437.000	27.00	6.08	35.92	112.44	109.60	74.00	-35.60	Peak	

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

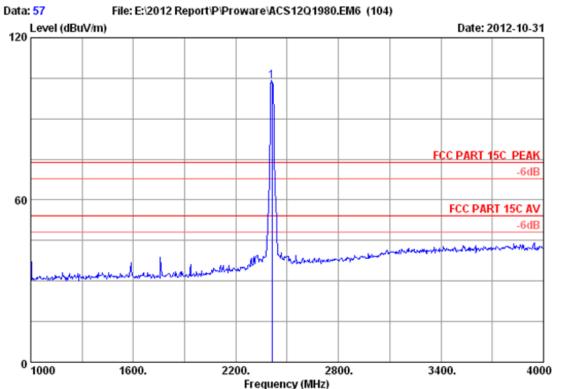
Power supply : DC 5V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH 6 2437MHz Tx

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	109.19	106.35	74.00	-32.35	Peak
	Remarks:								

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 57

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

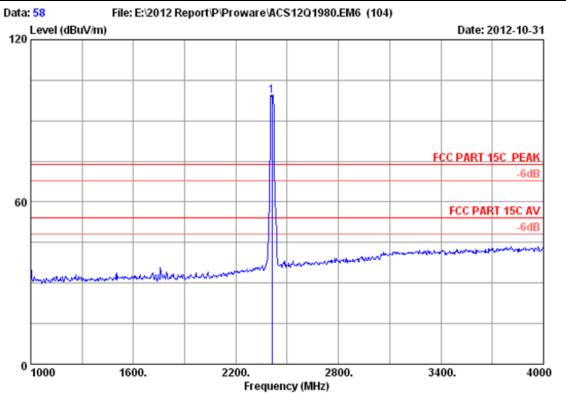
EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2412.000 	26.84	6.04	35.92	106.89	103.85	74.00	-29.85	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

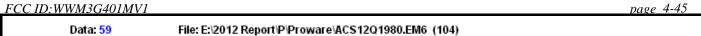
EUT : 3G Wireless N Nano Router

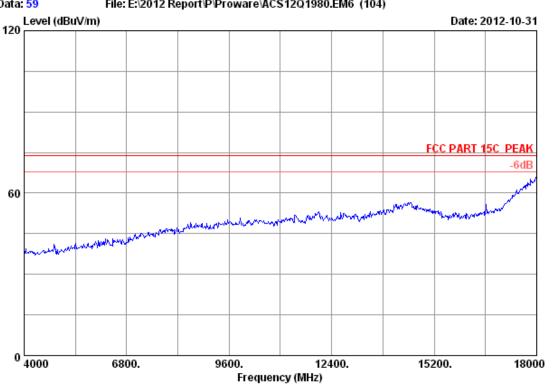
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx

	Freq.	Ant. Factor (dB/m)		Factor	Reading	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2412.000 	26.84	6.04	35.92	102.26	99.22	74.00	-25.22	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.







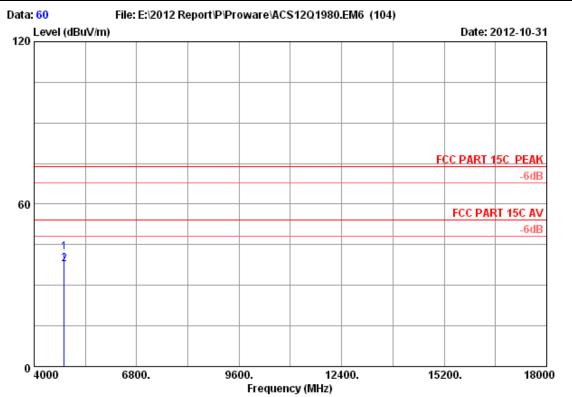
Site no. : 3m Chamber Data no. : 59 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx





Site no. : 3m Chamber Data no. : 60
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

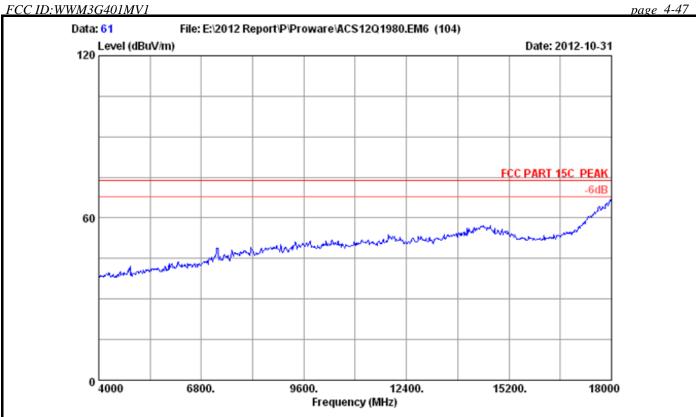
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx

M/N : PW-3G401M

		Ant.	Cable	Amp.		Emission			
	Freq. (MHz)	Factor (dB/m)			_	Level (dBuV/m)		Margin (dB)	Remark
1	4824.000	32.51	8.69	35.71	36.71	42.20	74.00	31.80	Peak
2	4824.000	32.51	8.69	35.71	32.45	37.94	54.00	16.06	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 61

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

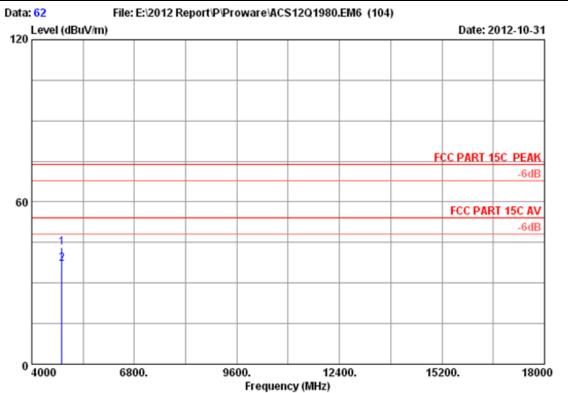
Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx





Site no. : 3m Chamber Data no. : 62

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

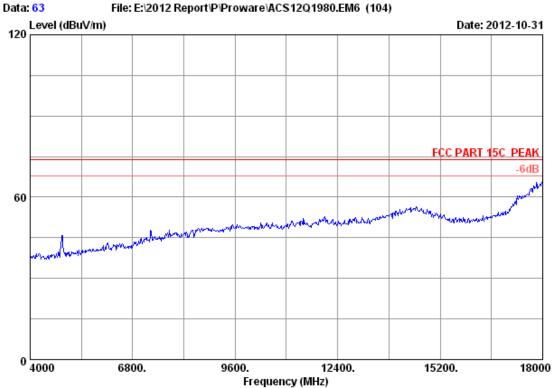
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	4824.000	32.51	8.69	35.71	37.62	43.11	74.00	30.89	Peak
2	4824.000	32.51	8.69	35.71	31.46	36.95	54.00	17.05	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 63

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

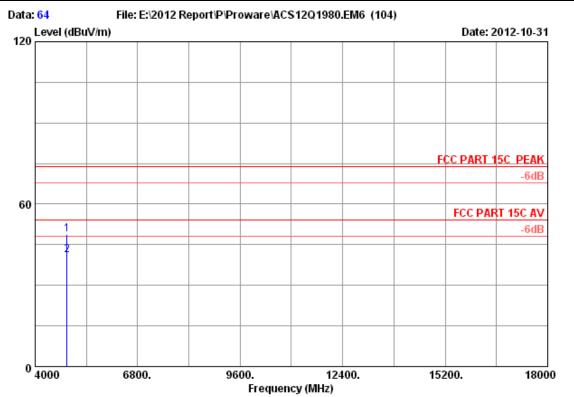
Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 6 2437MHz Tx





Site no. : 3m Chamber Data no. : 64

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

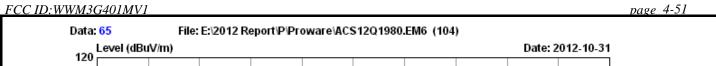
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 6 2437MHz Tx

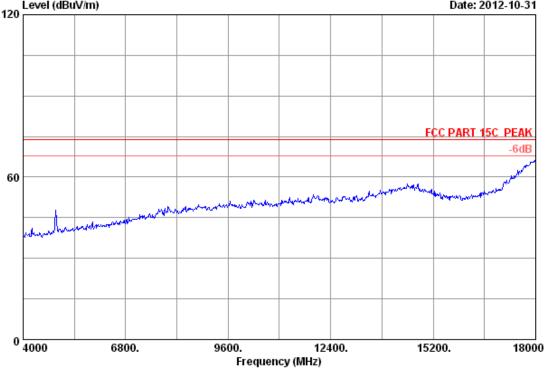
M/N : PW-3G401M

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	32.62	8.73	35.69	43.28	48.94	74.00	25.06	Peak
2	4874.000	32.62	8.73	35.69	35.46	41.12	54.00	12.88	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.







Site no. : 3m Chamber Data no. : 65

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

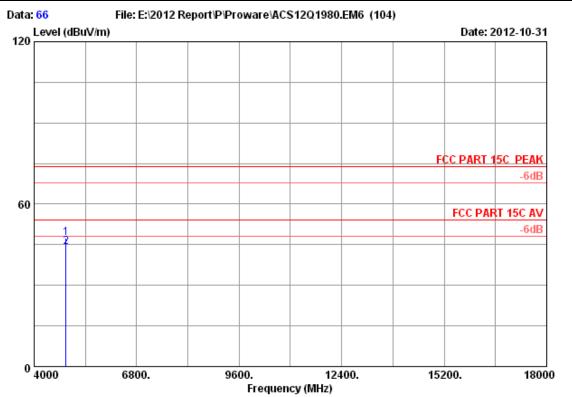
Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 6 2437MHz Tx





Site no. : 3m Chamber Data no. : 66
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

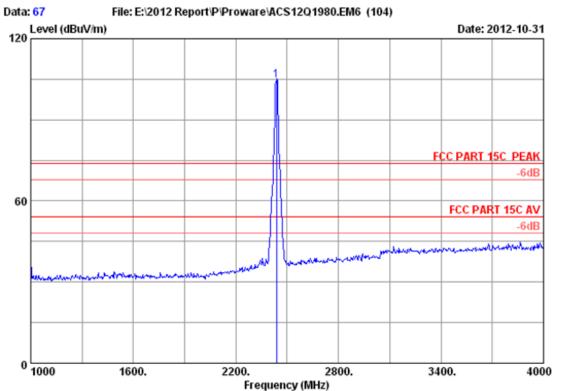
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 6 2437MHz Tx

M/N : PW-3G401M

			Cable	•		Emission			
	Freq.				_	Level		_	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	32.62	8.73	35.69	41.96	47.62	74.00	26.38	Peak
2	4874.000	32.62	8.73	35.69	38.46	44.12	54.00	9.88	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

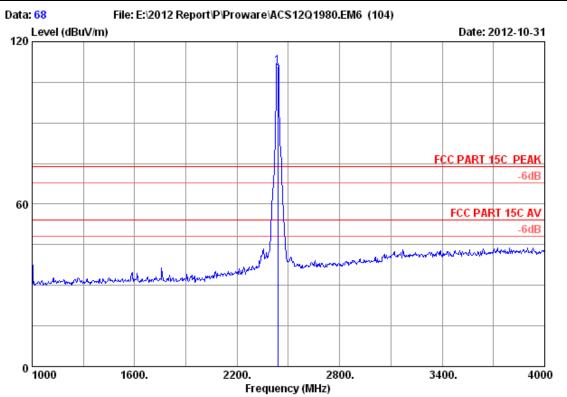
EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 6 2437MHz Tx

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	107.37	104.53	74.00	-30.53	Peak
	Remarks:								

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 68

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

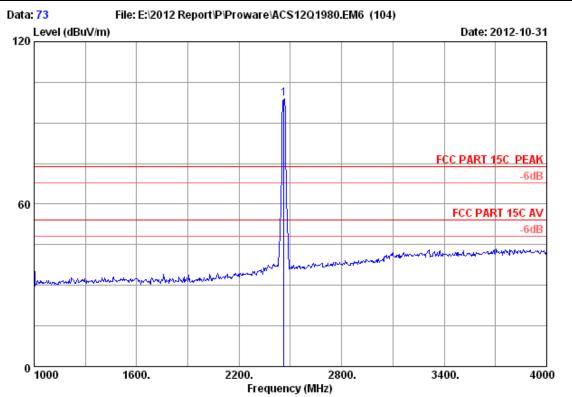
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 6 2437MHz Tx

M/N : PW-3G401M

	Freq. (MHz)	Ant. Factor (dB/m)	loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2437.000	27.00	6.08	35.92	113.87	111.03	74.00	-37.03	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

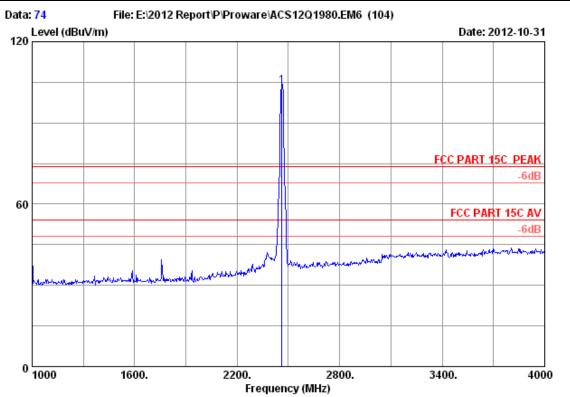
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx

M/N : PW-3G401M

	Freq. (MHz)		loss	Factor	Reading	Level (dBuV/m)	Limits	_	Remark
1	2462.000	27.16	6.12	35.92	101.64	99.00	74.00	-25.00 	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 74

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

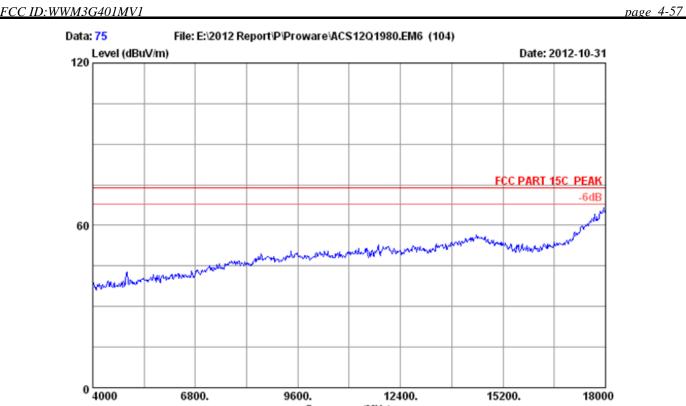
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)	loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2462.000	27.16	6.12	35.92	106.20	103.56	74.00	-29.56	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 75

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Frequency (MHz)

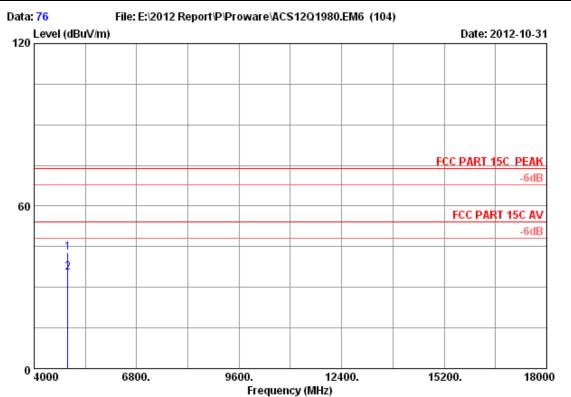
Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx





Site no. : 3m Chamber Data no. : 76

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

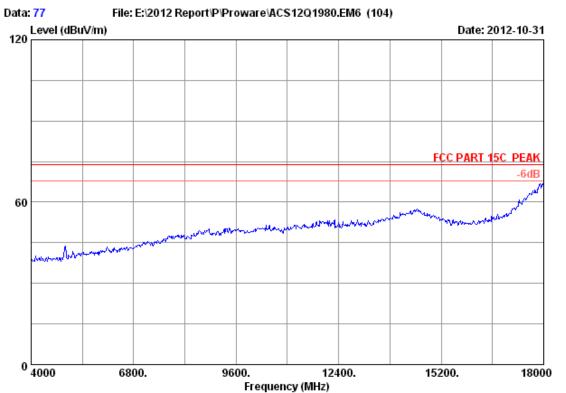
Power supply: DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx

M/N : PW-3G401M

	Freq. (MHz)	Ant. Factor (dB/m)		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits		Remark
_	4924.000 4924.000		8.78 8.78	35.68 35.68		42.64 35.39	74.00 54.00	31.36 18.61	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 77

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

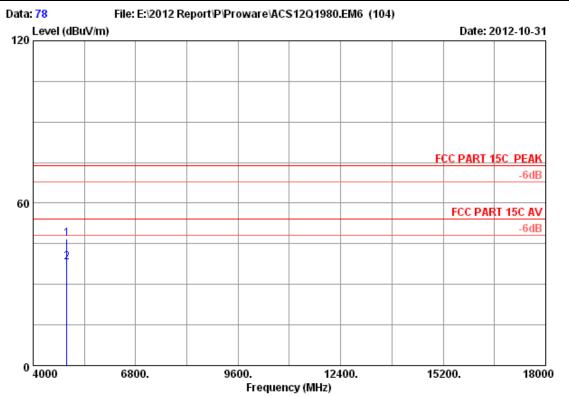
Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx





Site no. : 3m Chamber Data no. : 78

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

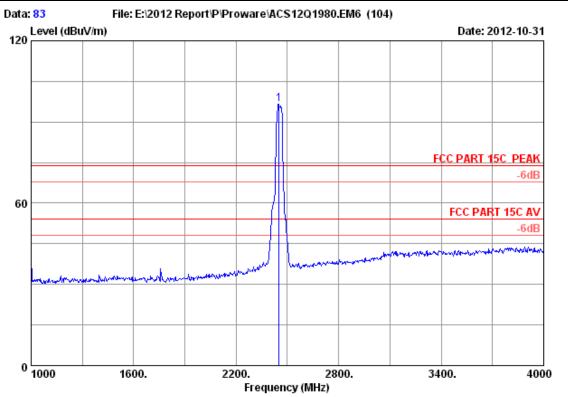
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx

M/N : PW-3G401M

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	•	Reading (dBuV)		Limits (dBuV/m)	_	Remark
4924.000 4924.000		8.78 8.78	35.68 35.68	40.81 32.14	46.64 37.97	74.00 54.00	27.36 16.03	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

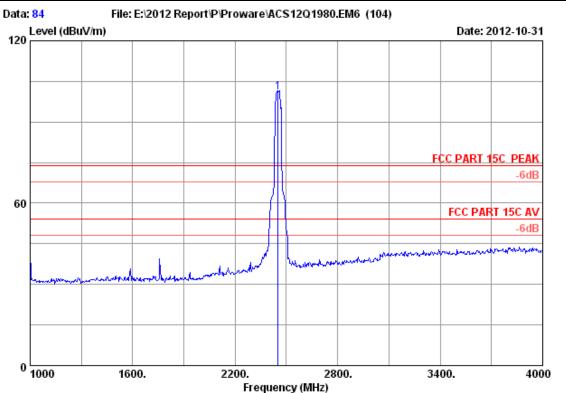
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)	loss	Factor	_	Emission Level (dBuV/m)	Limits	_	Remark
1	2452.000	27.09 	6.11	35.92	99.16	96.44	74.00	-22.44	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 84

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

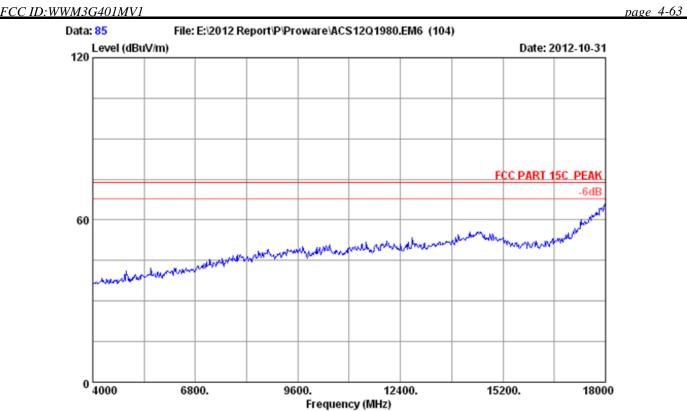
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx

M/N : PW-3G401M

	-		loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark	
1	2452.000	27.09	6.11	35.92	103.82	101.10	74.00	-27.10	Peak	

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 85

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

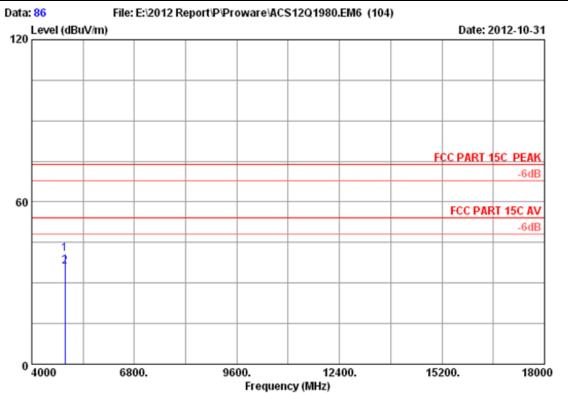
Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 86

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

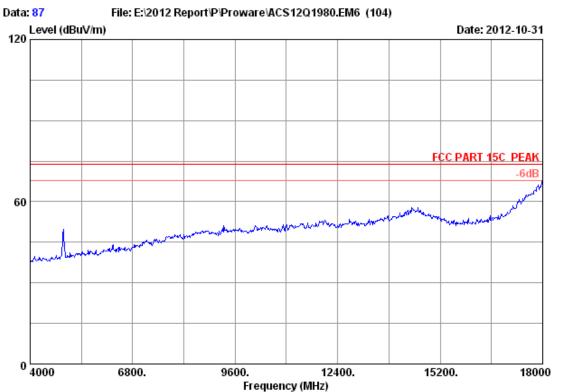
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	4904.000	32.69	8.76	35.68	35.17	40.94	74.00	33.06	Peak
2	4904.000	32.69	8.76	35.68	30.45	36.22	54.00	17.78	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 87
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

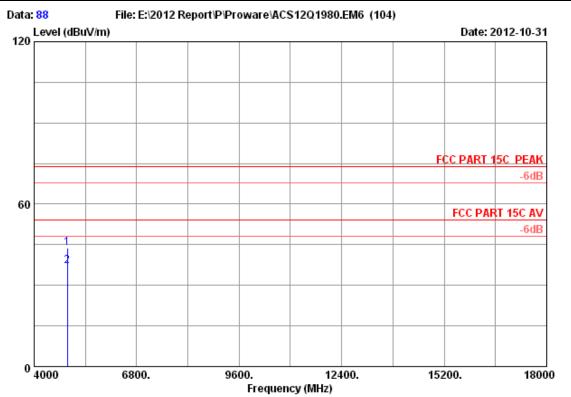
Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 88
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

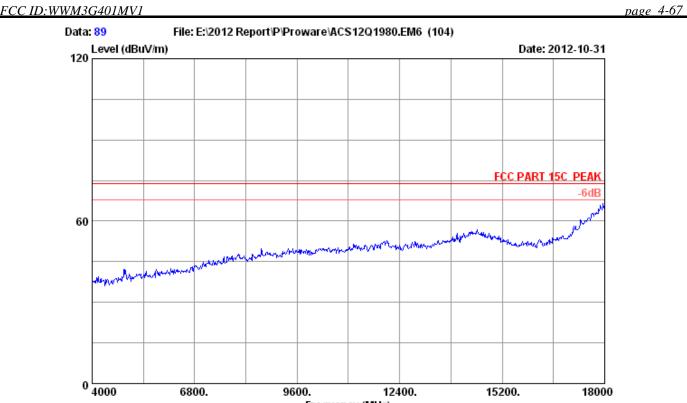
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx

M/N : PW-3G401M

		Ant.	Cable	Amp.		Emission			
	Freq. (MHz)	Factor (dB/m)			_	Level (dBuV/m)		Margin (dB)	Remark
1	4904.000	32.69	8.76	35.68	38.17	43.94	74.00	30.06	Peak
2	4904.000	32.69	8.76	35.68	31.47	37.24	54.00	16.76	Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 89

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Frequency (MHz)

12400.

15200.

18000

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 3G Wireless N Nano Router

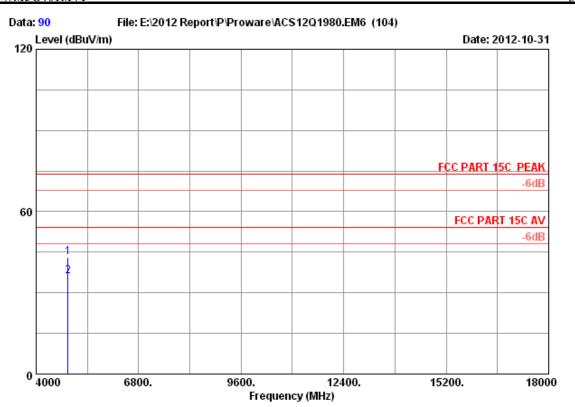
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx

9600.

M/N: PW-3G401M

6800.





Site no. : 3m Chamber Data no. : 90

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

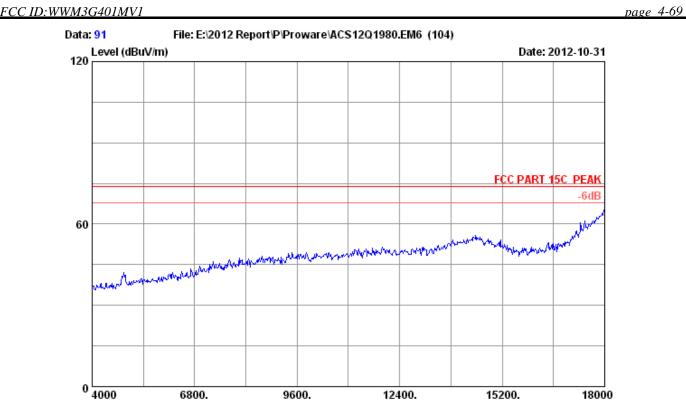
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx

M/N : PW-3G401M

	Ant.	Cable	Amp.		Emission			
Freq. (MHz)	Factor (dB/m)		Factor (dB)	_	Level (dBuV/m)		Margin (dB)	Remark
4874.000 4874.000				37.41 30.45	43.07 36.11	74.00 54.00	30.93 17.89	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





: 3m Chamber Data no. : 91

9600.

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Frequency (MHz)

12400.

15200.

18000

: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

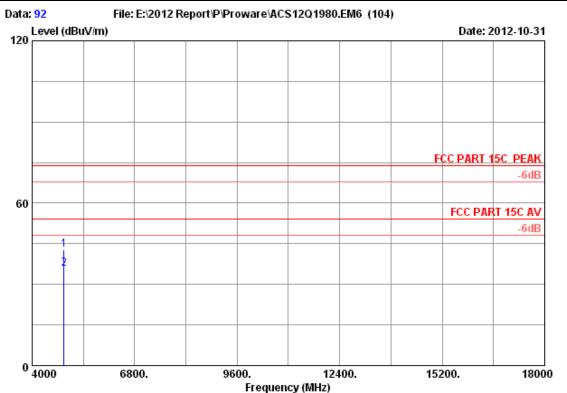
: 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx

M/N: PW-3G401M

6800.





Site no. : 3m Chamber Data no. : 92

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

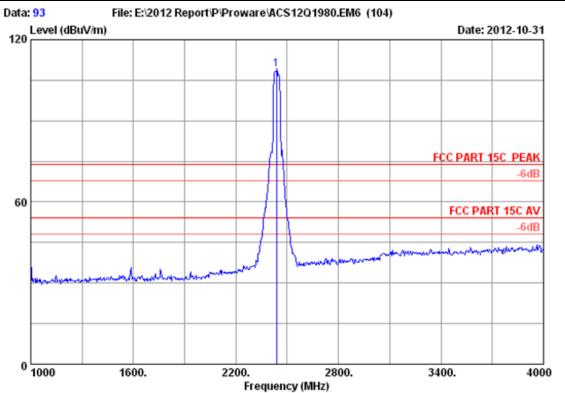
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx

M/N : PW-3G401M

1 4874.000 32.62 8.73 35.69 37.13 42.79 74.00 31.21 Peak 2 4874.000 32.62 8.73 35.69 30.14 35.80 54.00 18.20 Averag		Freq. (MHz)	Ant. Factor (dB/m)	•	Reading (dBuV)	Limits (dBuV/m)	Margin (dB)	Remark
	_			 		 		Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 93

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

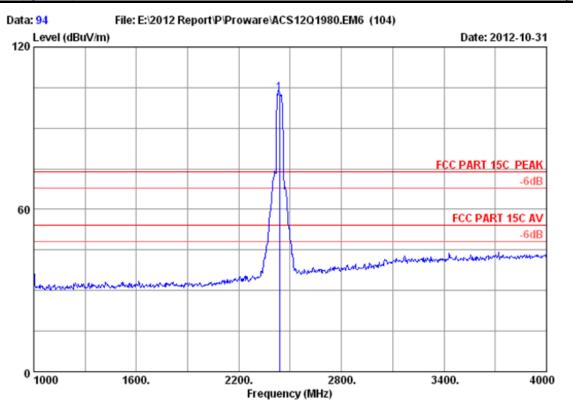
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	111.90	109.06	74.00	-35.06	Peak
	Remarks:								

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 94

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

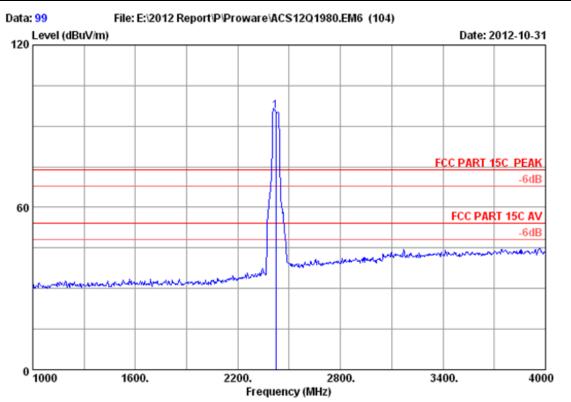
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	105.91	103.07	74.00	-29.07	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 99
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx

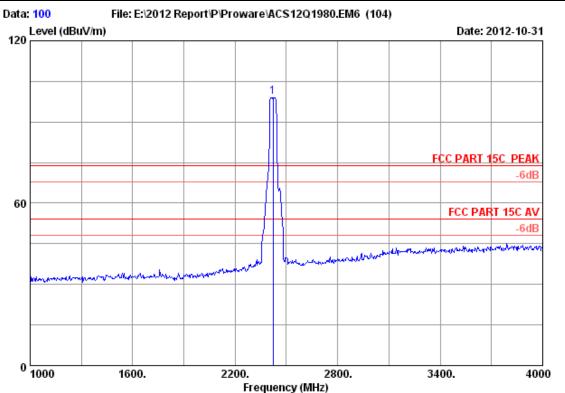
M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)		Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2422.000	26.90	6.05	35.92	98.59	95.62	74.00	-21.62	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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: 3m Chamber Data no. : 100 Site no.

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx

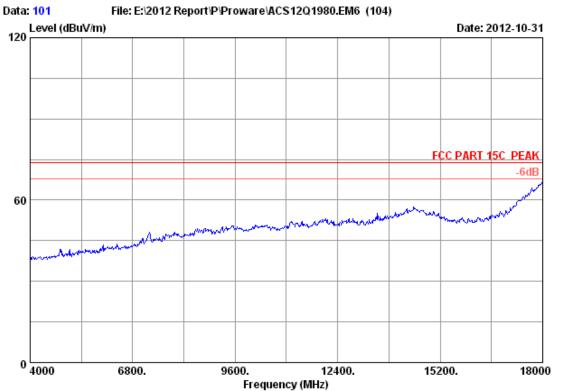
M/N : PW-3G401M

	Freq.		loss	Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2422.000	26.90	6.05	35.92	102.12	99.15	74.00	-25.15	Peak
	D								

- 1. Emission Level= Antenna Factor + Cable Loss Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 101

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

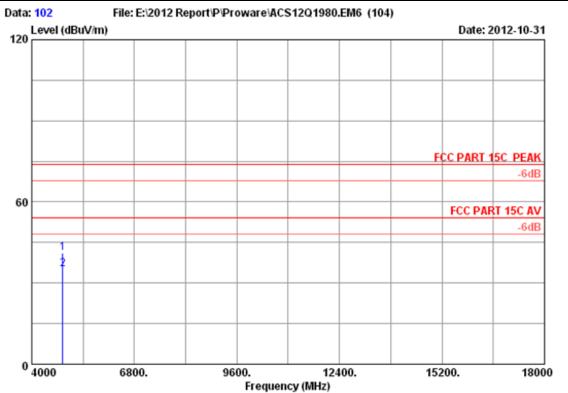
Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx

M/N: PW-3G401M





Site no. : 3m Chamber Data no. : 102

Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

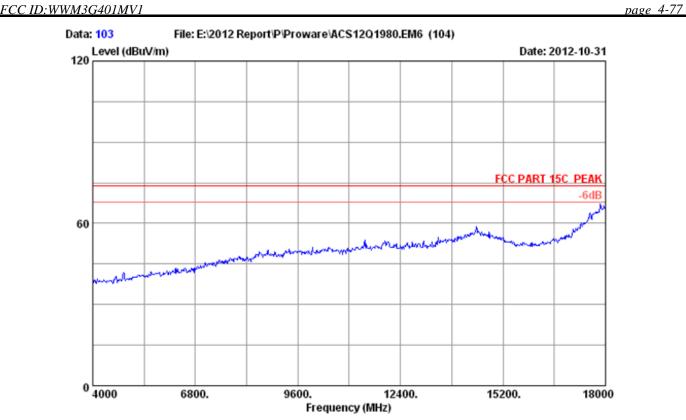
Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx

M/N : PW-3G401M

	Freq.	Ant. Factor (dB/m)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2		32.56 32.56	 35.70 35.70	35.56 29.40	41.12 34.96	74.00 54.00	32.88 19.04	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 103
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

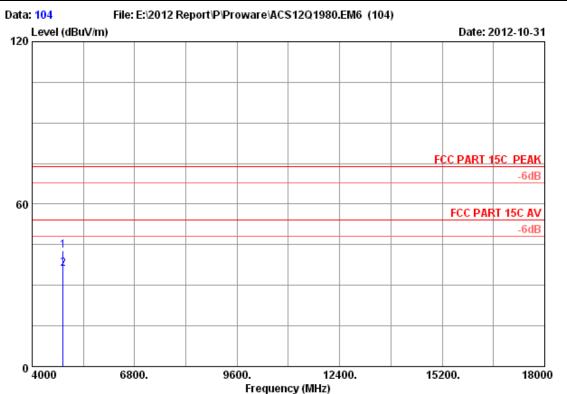
Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx

M/N : PW-3G401M





Site no. : 3m Chamber Data no. : 104
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 3G Wireless N Nano Router

Power supply : DC 5V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx

M/N : PW-3G401M

		Ant.	Cable	Amp.		Emission			
	Freq. (MHz)	Factor (dB/m)			_	Level (dBuV/m)		_	Remark
1	4844.000 4844.000		8.70 8.70		37.19 30.64	42.75 36.20	74.00 54.00	31.25 17.80	Peak Average

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,12	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,12	1Year

5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

5.4. Test result

PASS (The testing data was attached in the next pages.)



page 5-2 FCC ID:WWM3G401MV1 Test Mode: IEEE 802.11b TX Test CH1: 2412MHz 🔆 Agilent Marker Mkr4 2.725 GHz Select Marker -45.47 dBm Ref 21 dBm Atten 10 dB 2 3 #Peak Log 10 ō Normal dB/ Offst 21 dB Delta -3 **♦** DΙ ø **\Q** -24.6 dBm Delta Pair (Tracking Ref) LgAv Ref Start 1.000 GHz Stop 10.000 GHz Span Pair #Res BW 100 kHz #VBW 300 kHz Sweep 860.2 ms (601 pts) Span Center Marker Trace Type X Axis Amplitude (1) (1) Freq 2.410 GHz -4.62 dBm 123

3.220 GHz 4.825 GHz

2.725 GHz

-44.70 dBm

-46.81 dBm

-45.47 dBm

Off

More 1 of 2

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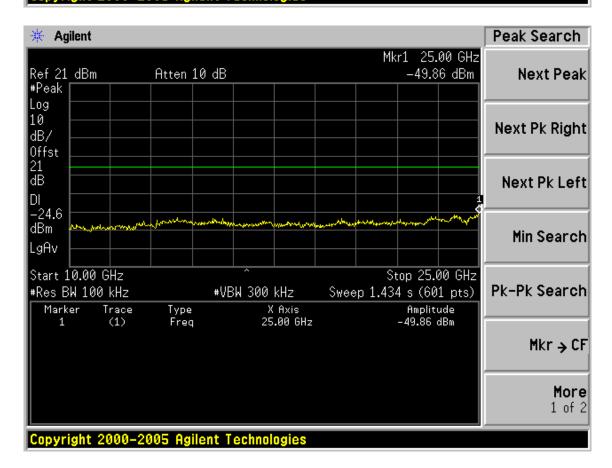
Freq

Freq

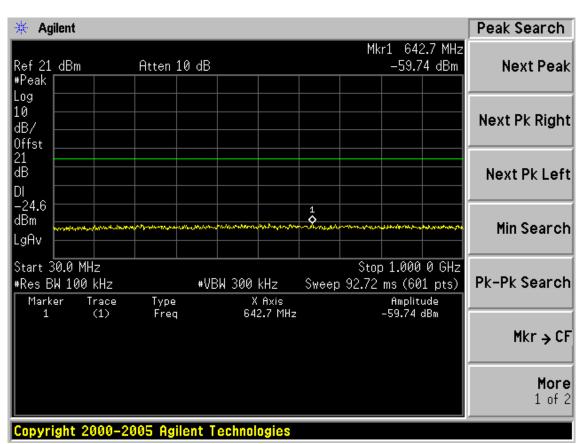
Freq

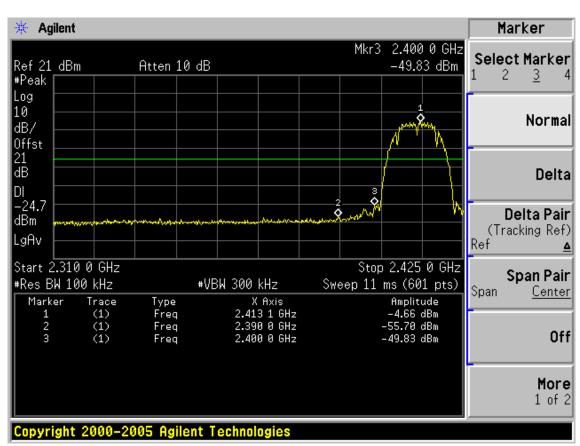
(1)

(1)

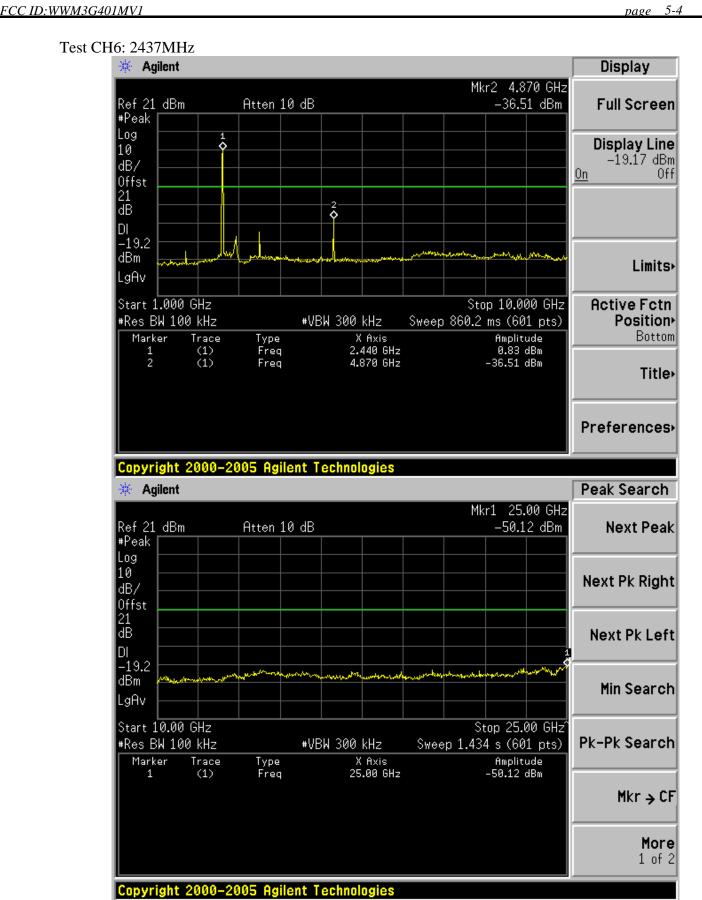




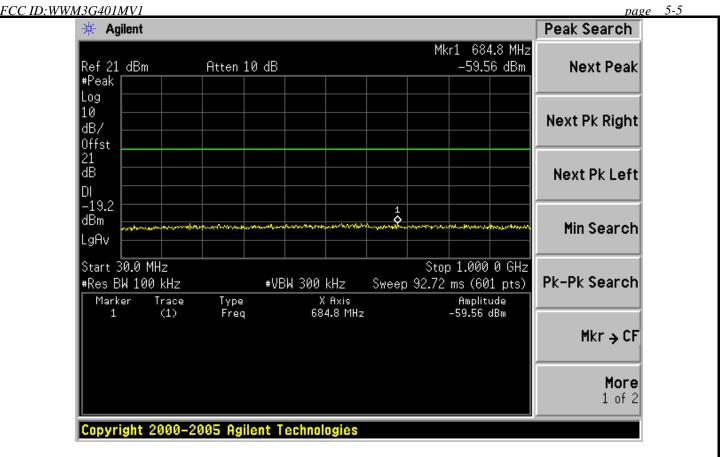














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Test CH11: 2462MHz

