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Tom 2 hang Bovey Yang

## **FCC RADIO TEST REPORT**

Compiled by (+ signature) ......

Tom Zhang

Approved by (+ signature) ......

Bovey Yang

Applicant's name ...... ALFA NETWORK Inc.

Address...... 4F-1 No.106, Rueiguang Rd., Neihu Distric, Taipei City 114

Manufacture's Name ...... ALFA NETWORK Inc.

Address...... 4F-1 No.106, Rueiguang Rd., Neihu Distric, Taipei City 114

Test specification:

Test item description

Product name .....: IEEE 802.11b/g/n Long Range AP-Router

FCC ID UQ2525H

Trademark .....: ALFA

Model and/or type reference : AIP-W525H, AIP-W515H, W525H, W515H, G2N, G2NH,

AWAP02O-15H, AWAP02O-25H

Rating(s) ...... DC 12V, 300mA, 3.6W

**Testing Laboratory information:** 

Testing Laboratory Name .....: NTEK Testing Technology Co., Ltd

Address ...... 1/F, Building E, Fenda Science Park, Sanwei Community,

Xixiang Street, Bao ' an District, Shenzhen P.R. China.

This device described above has been tested by NTEK Testing Technology Co., Ltd, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Testing .....:

Date of receipt of test item ...... 1 Dec. 2011

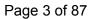
Date (s) of performance of tests ...... 1 Dec. 2011 ~7 Dec. 2011

Date of Issue ...... 7 Dec. 2011

Test Result...... Pass



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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				
15.203	Antenna Requirement	PASS				



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.: POCE12091126RF

FCC FRN Registration Nombre:238937; IC Registration Nombre:9270A-1

### 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	Radiated Emission Test	±3.17dB
3	RF power,conducted	±0.16dB
4	Spurious emissions,conducted	±0.21dB
5	All emissions,radiated(<1G)	±4.68dB
6	All emissions,radiated(>1G)	±4.89dB



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	IEEE 802.11b/g/n Lon	g Range AP-Router				
Trade Name	ALFA					
MadalNlass	AIP-W525H, AIP-W515H, W525H, W515H, G2N, G2NH,					
Model Name	AWAP02O-15H, AWAP	02O-25H				
OEM Brand/Model Name	N/A					
Model Difference	N/A					
	The EUT is a Travel Ro	uter				
	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462 MHz 802.11n(40MHz):2422~2452 MHz				
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK				
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps				
		802.11n(20MHz):54/144.44/130/1 17/115.56/104/86.67/78/52/6.5 Mbps				
Product Description		802.11n(40MHz):300/270/240/18 0/150/120/108/90/54 Mbps				
	Number Of Channel	11 CH, Please see Note 2.				
	Antenna Designation:	Please see Note 3.				
	Antenna Gain(Peak)	Please see Note 3.				
	Output Power(EIRP):	802.11b(A): 23.01 dBm (Max.) 802.11g (A): 26.17 dBm (Max.) 802.11n(20M): <b>28.88</b> dBm (Max.) 802.11n (40M): 28.89 dBm (Max.)				
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.					
Channel List	Please refer to the Note	2.				
Power Source	DC 12V					
Connecting I/O Port(s)	Please refer to the User	's Manual				
Products Covered	N/A					

### 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(20MHz)						
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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	Channel List for 802.11b/g/n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	80	2447				

# Table for Filed Antenna

	able for the different						
/	۹nt	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	Α	N/A	N/A	external Antenna	N/A	-1	Inverse spiral antenna
	В	N/A	N/A	external Antenna	NA	-1	Inverse spiral antenna

The Control software(MP\_TEST2.exe) can control antenna A and antenna B, For 802.11b/g mode, when antenna A is transmitting, antenna B closed, when antenna B is transmitting, antenna A closed. For 802.11n 20/40MHz mode ,two antennas simultaneously transmit. And the data is recorded for radiated emission.



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(20) CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9

For Conducted Emission				
Final Test Mode	Description			
Mode 5	NORMAL LINK			

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(20) CH1/ CH6/ CH11			
Mode 4	802.11n(40) CH3/ CH6/ CH9			

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

#### 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

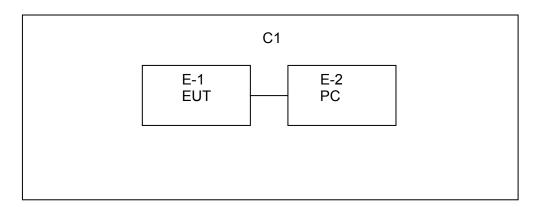
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software Version	Test program: MP_TEST.exe			
802.11b	2412 MHz	2437 MHz	2462 MHz	
802.11g	2412 MHz	2437 MHz	2462 MHz	
802.11n(20MHz)	2412 MHz	2437 MHz	2462 MHz	
802.11n(40MHz)	2422 MHz	2437 MHz	2452 MHz	



## 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated:





## 2.5 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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Travel Router	N/A	AIP-W525H	N/A	EUT
E-2	Notebook computer	IBM	2366	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.5M	net cable

#### 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.



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## 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

**Radiation Test equipment** 

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2012
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2012
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2012
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2012
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2012
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2012
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2012
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2012
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2012
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2012

**Conduction Test equipment** 

	Conduction rest equipment								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2012				
2	LISN	R&S	ENV216	101313	Jul. 06. 2012				
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2012				
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2012				
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2012				
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2012				



## 3. EMC EMISSION TEST

### 3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard	
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		



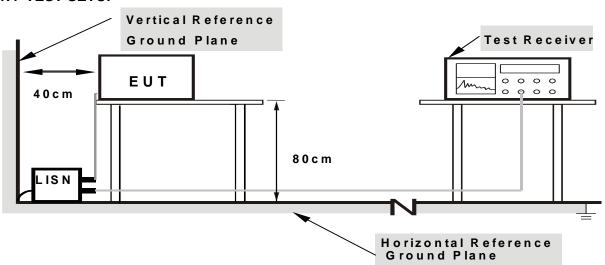
#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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.

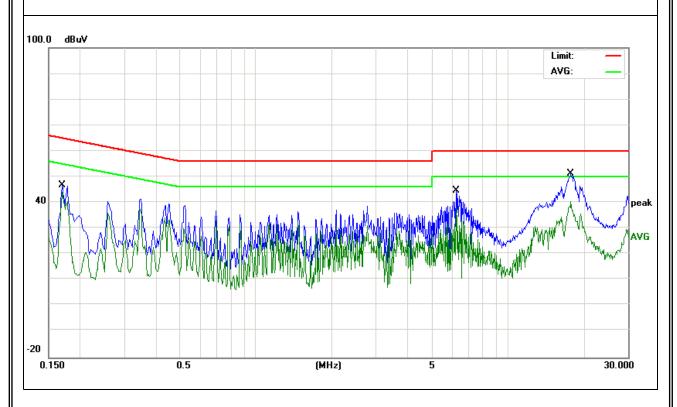


## 3.1.6 TEST RESULTS

H-111 .	IEEE 802.11b/g/n Long Range AP-Router	Model Name. :	AIP-W525H
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2011-12-1
Test Mode:	Normal Link	Phase :	L
Test Voltage :	DC 12V		

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Detector
0.17	36.32	10.45	46.77	64.96	-18.19	QP
0.17	33.71	10.45	44.16	54.96	-10.8	AVG
6.226	34.06	10.66	44.72	60	-15.28	QP
6.226	27.4	10.66	38.06	50	-11.94	AVG
17.814	40.68	10.72	51.4	60	-8.6	QP
17.814	29.65	10.72	40.37	50	-9.63	AVG

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

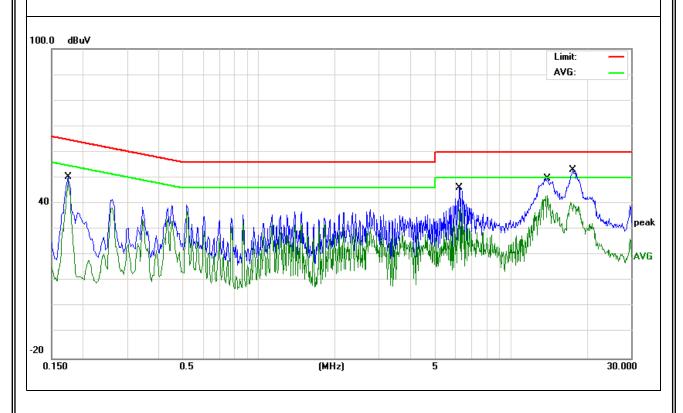




FIII .	IEEE 802.11b/g/n Long Range AP-Router	Model Name. :	AIP-W525H
Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010hPa	Test Date :	2011-12-1
Test Mode:	Normal Link	Phase :	N
Test Voltage :	DC 12V		

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Detector
0.1737	40.02	10.36	50.38	64.78	-14.4	QP
0.1737	38.19	10.36	48.55	54.78	-6.23	AVG
6.2259	35.52	10.68	46.2	60	-13.8	QP
6.3098	27.46	10.67	38.13	50	-11.87	AVG
13.9177	32.37	10.72	43.09	50	-6.91	AVG
17.6377	42.34	10.75	53.09	60	-6.91	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 A (dBu	IV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
PREQUENCT (WITZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80 60		74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	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 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

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- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

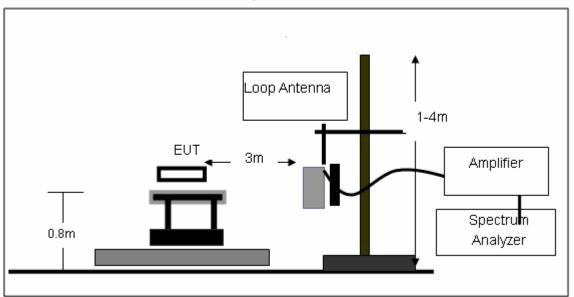
#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

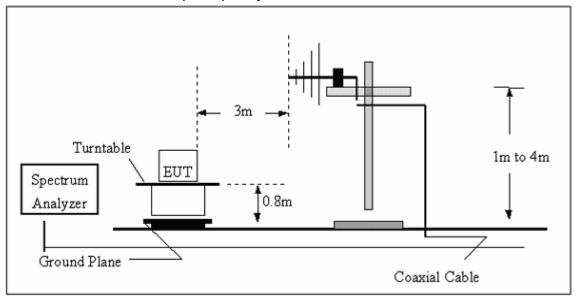


## 3.2.4 TEST SETUP

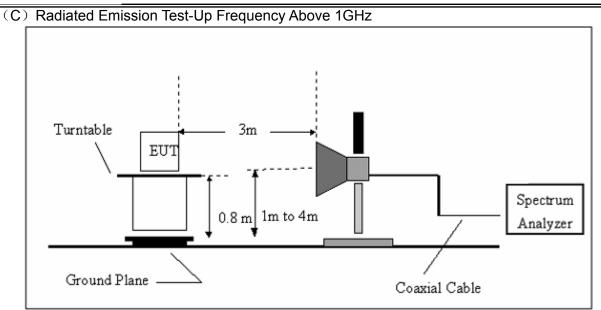
(A) Radiated Emission Test-Up Frequency Below 30MHz



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







#### 3.2.5 EUT OPERATING CONDITIONS

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



## 3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

	IEEE 802.11b/g/n Long Range AP-Router	Model Name. :	AIP-W525H
Temperature :	1'2() ( '	Relative HuMaylong Mobility Tabletity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX	Polarization :	

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

### NOTE:

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

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



## 3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

H-111 .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
71.3298	26.21	6.19	32.4	40	-7.6	QP
102.7192	23.4	10.8	34.2	43.5	-9.3	QP
545.1825	10.13	23.47	33.6	46	-12.4	QP

#### Remark:





<b> -   </b>   .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
32.634	18.71	16.99	35.7	40	-4.3	QP
81.7831	26.95	8.05	35	40	-5	QP
541.3721	9.14	23.46	32.6	46	-13.4	QP

## Remark:



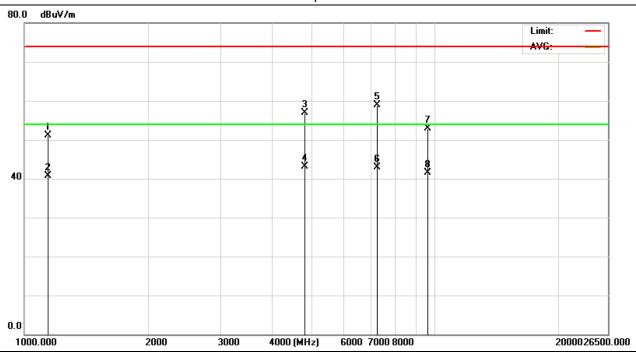


## 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1143.2	55.85	-4.69	51.16	74	-22.84	peak
1143.2	45.33	-4.69	40.64	54	-13.36	AVG
4810.62	46.52	10.41	56.93	74	-17.07	peak
4810.62	32.74	10.41	43.15	54	-10.85	AVG
7215.94	46.52	12.39	58.91	74	-15.09	peak
7215.94	30.48	12.39	42.87	54	-11.13	AVG
9623.14	36.88	16.06	52.94	74	-21.06	peak
9623.14	25.45	16.06	41.51	54	-12.49	AVG

## Remark:

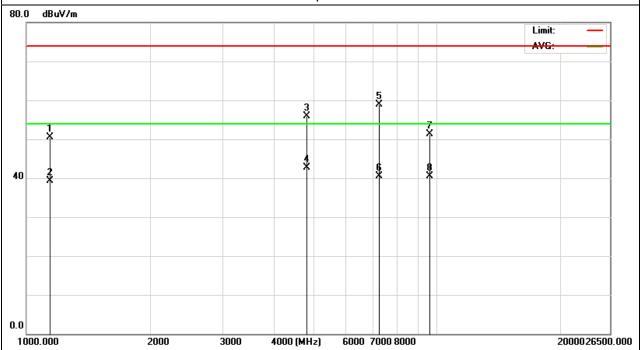


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1143.2	55.1	-4.69	50.41	74	-23.59	peak
1143.2	44.03	-4.69	39.34	54	-14.66	AVG
4810.62	45.53	10.41	55.94	74	-18.06	peak
4810.62	32.23	10.41	42.64	54	-11.36	AVG
7215.94	46.52	12.39	58.91	74	-15.09	peak
7215.94	28.09	12.39	40.48	54	-13.52	AVG

## Remark:

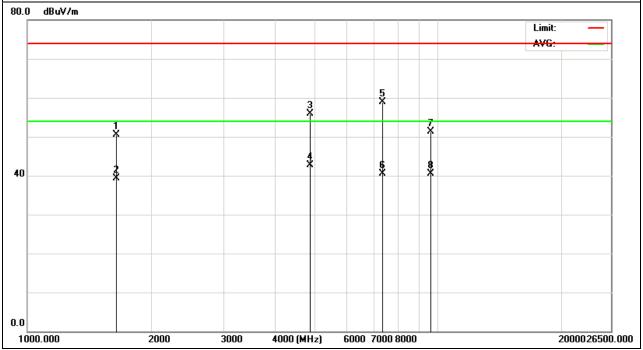


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EUT:	IEEE 802.11b/g/n Long	Model Name :	AIP-W525H
	Range AP-Router	Model Name :	MIF-VV02011
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1645.32	53.46	-3.05	50.41	74	-23.59	peak
1645.32	42.39	-3.05	39.34	54	-14.66	AVG
4882.16	45.58	10.36	55.94	74	-18.06	peak
4882.16	32.28	10.36	42.64	54	-11.36	AVG
7323.45	46.14	12.77	58.91	74	-15.09	peak
7323.45	27.71	12.77	40.48	54	-13.52	AVG

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. No emission detected above 18GHz

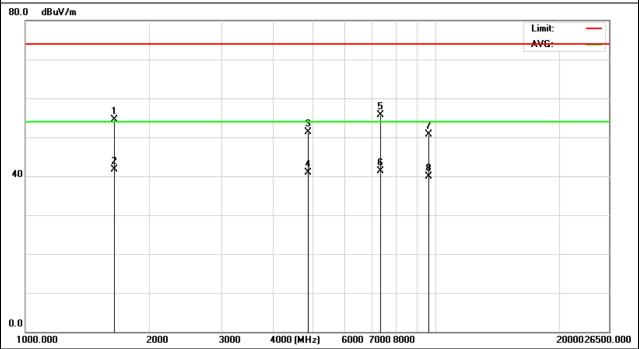


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<b>FIII</b> .	IEEE 802.11b/g/n Long	Model Name :	AID MESELL
	Range AP-Router	iviouei name .	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1645.32	57.61	-3.05	54.56	74	-19.44	peak
1645.32	44.83	-3.05	41.78	54	-12.22	AVG
4882.16	40.88	10.36	51.24	74	-22.76	peak
4882.16	30.61	10.36	40.97	54	-13.03	AVG
7323.45	42.97	12.77	55.74	74	-18.26	peak
7323.45	28.51	12.77	41.28	54	-12.72	AVG
9623.14	34.58	16.06	50.64	74	-23.36	peak
9623.14	23.81	16.06	39.87	54	-14.13	AVG

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. No emission detected above 18GHz

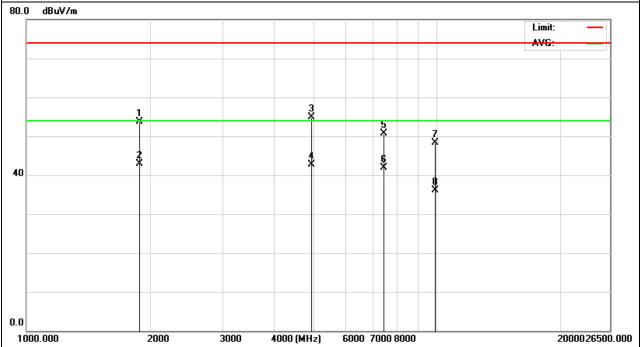


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FIJI .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1884.32	55.55	-1.89	53.66	74	-20.34	peak
1884.32	44.86	-1.89	42.97	54	-11.03	AVG
4954.81	44.48	10.49	54.97	74	-19.03	peak
4954.81	32.26	10.49	42.75	54	-11.25	AVG
7431.66	37.63	13.03	50.66	74	-23.34	peak
7431.66	28.88	13.03	41.91	54	-12.09	AVG
9911.54	32.08	16.2	48.28	74	-25.72	peak
9911.54	19.91	16.2	36.11	54	-17.89	AVG

- 3. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 4. No emission detected above 18GHz

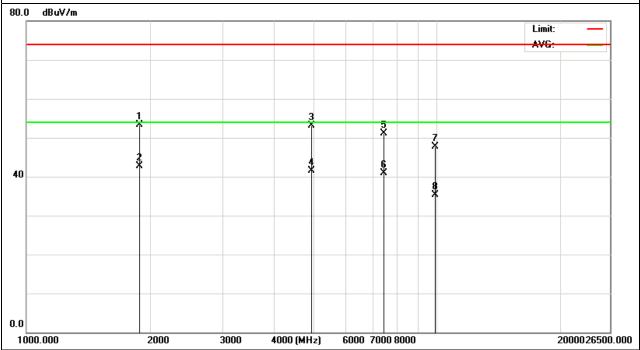


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1884.32	55.17	-1.89	53.28	74	-20.72	peak
1884.32	44.5	-1.89	42.61	54	-11.39	AVG
4954.81	42.67	10.49	53.16	74	-20.84	peak
4954.81	30.92	10.49	41.41	54	-12.59	AVG
7431.66	37.99	13.03	51.02	74	-22.98	peak
7431.66	27.94	13.03	40.97	54	-13.03	AVG
9911.54	31.44	16.2	47.64	74	-26.36	peak
9911.54	19.14	16.2	35.34	54	-18.66	AVG

## Remark:

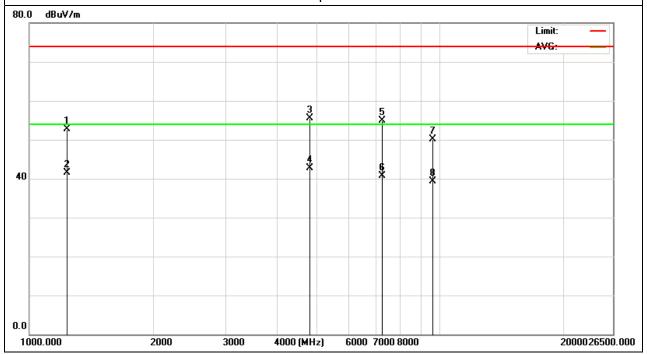


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FIII .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1231.15	56.52	-3.88	52.64	74	-21.36	peak
1231.15	45.37	-3.88	41.49	54	-12.51	AVG
4810.62	45.13	10.41	55.54	74	-18.46	peak
4810.62	32.23	10.41	42.64	54	-11.36	AVG
7215.94	42.59	12.39	54.98	74	-19.02	peak
7215.94	28.28	12.39	40.67	54	-13.33	AVG
9623.14	34.05	16.06	50.11	74	-23.89	peak
9623.14	23.29	16.06	39.35	54	-14.65	AVG

## Remark:

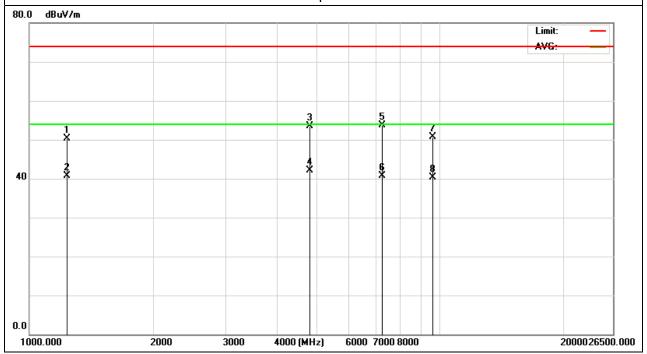


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FIJI .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1231.64	54.23	-3.88	50.35	74	-23.65	peak
1231.64	44.54	-3.88	40.66	54	-13.34	AVG
4810.62	43.12	10.41	53.53	74	-20.47	peak
4810.62	31.7	10.41	42.11	54	-11.89	AVG
7215.94	41.27	12.39	53.66	74	-20.34	peak
7215.94	28.29	12.39	40.68	54	-13.32	AVG
9623.14	34.72	16.06	50.78	74	-23.22	peak
9623.14	24.17	16.06	40.23	54	-13.77	AVG

## Remark:

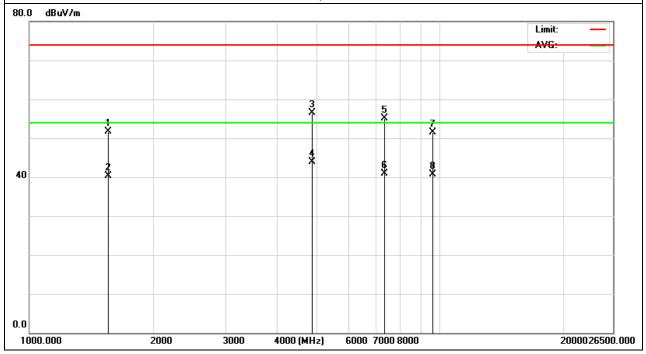


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1556.24	55.32	-3.68	51.64	74	-22.36	peak
1556.24	44.01	-3.68	40.33	54	-13.67	AVG
4882.16	46.2	10.36	56.56	74	-17.44	peak
4882.16	33.45	10.36	43.81	54	-10.19	AVG
7323.45	42.4	12.77	55.17	74	-18.83	peak
7323.45	28.2	12.77	40.97	54	-13.03	AVG

## Remark:

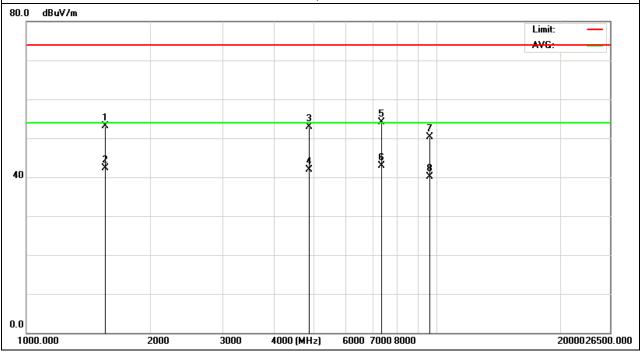


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1556.24	56.87	-3.68	53.19	74	-20.81	peak
1556.24	46.02	-3.68	42.34	54	-11.66	AVG
4882.16	42.61	10.36	52.97	74	-21.03	peak
4882.16	31.48	10.36	41.84	54	-12.16	AVG
7323.45	41.42	12.77	54.19	74	-19.81	peak
7323.45	30.07	12.77	42.84	54	-11.16	AVG

## Remark:

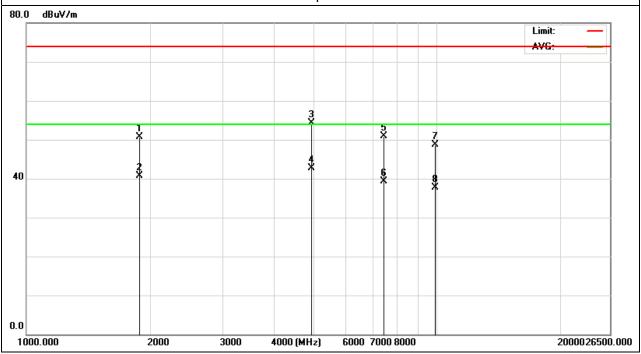


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1884.32	52.55	-1.89	50.66	74	-23.34	peak
1884.32	42.68	-1.89	40.79	54	-13.21	AVG
4954.81	43.82	10.49	54.31	74	-19.69	peak
4954.81	32.3	10.49	42.79	54	-11.21	AVG
7431.66	37.96	13.03	50.99	74	-23.01	peak
7431.66	26.33	13.03	39.36	54	-14.64	AVG
9911.54	32.49	16.2	48.69	74	-25.31	peak
9911.54	21.44	16.2	37.64	54	-16.36	AVG

## Remark:

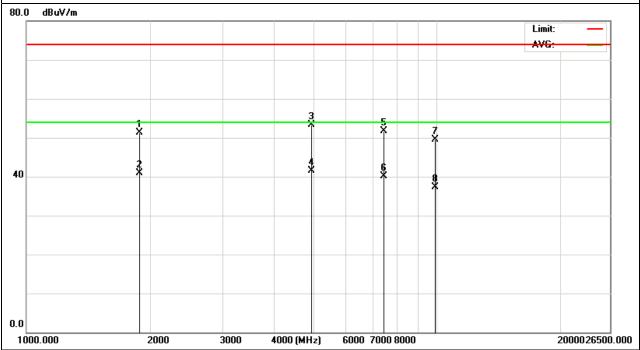


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1884.32	53.15	-1.89	51.26	74	-22.74	peak
1884.32	42.77	-1.89	40.88	54	-13.12	AVG
4954.81	42.8	10.49	53.29	74	-20.71	peak
4954.81	31.1	10.49	41.59	54	-12.41	AVG
7431.66	38.63	13.03	51.66	74	-22.34	peak
7431.66	27.15	13.03	40.18	54	-13.82	AVG
9911.54	33.27	16.2	49.47	74	-24.53	peak
9911.54	21.09	16.2	37.29	54	-16.71	AVG

## Remark:

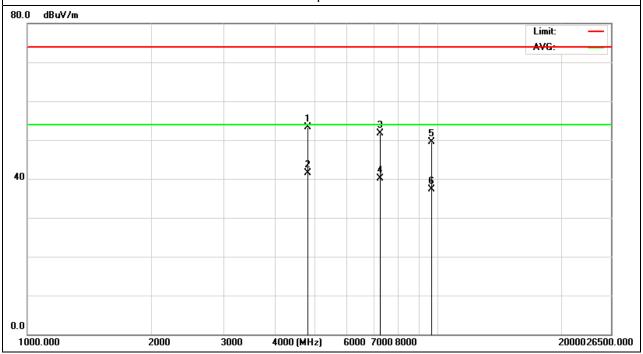


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1(802.11n Mode)/20MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4824.14	42.85	10.44	53.29	74	-20.71	peak
4824.14	31.15	10.44	41.59	54	-12.41	AVG
7239.35	39.27	12.39	51.66	74	-22.34	peak
7239.35	27.79	12.39	40.18	54	-13.82	AVG
9648.23	33.8	15.67	49.47	74	-24.53	peak
9648.23	21.62	15.67	37.29	54	-16.71	AVG

## Remark:

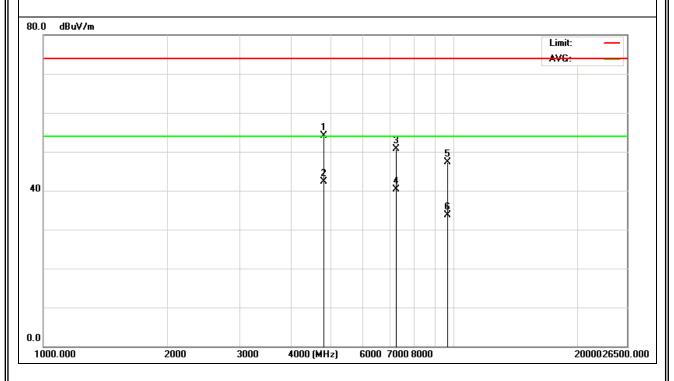




EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1(802.11n Mode)/20MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.14	43.68	10.44	54.12	74	-19.88	peak
4824.14	31.91	10.44	42.35	54	-11.65	AVG
7239.35	38.35	12.39	50.74	74	-23.26	peak
7239.35	27.94	12.39	40.33	54	-13.67	AVG
9648.23	31.58	15.67	47.25	74	-26.75	peak
9648.23	18.11	15.67	33.78	54	-20.22	AVG

## Remark:

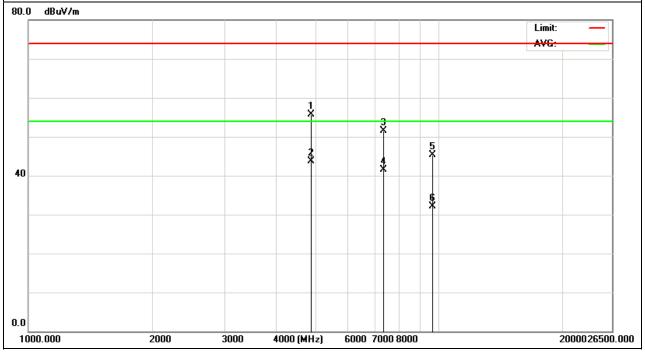


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH6(802.11n Mode)/20MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874.33	45.24	10.4	55.64	74	-18.36	peak
4874.33	33.27	10.4	43.67	54	-10.33	AVG
7311.84	38.79	12.75	51.54	74	-22.46	peak
7311.84	28.73	12.75	41.48	54	-12.52	AVG
9648.23	29.66	15.67	45.33	74	-28.67	peak
9648.23	16.45	15.67	32.12	54	-21.88	AVG

# Remark:

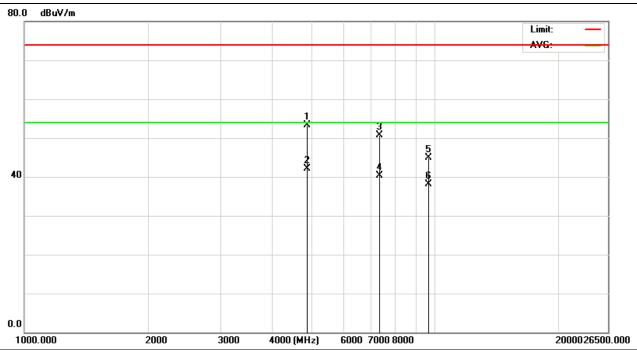


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH6(802.11n Mode)/20MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874.33	42.86	10.4	53.26	74	-20.74	peak
4874.33	31.79	10.4	42.19	54	-11.81	AVG
7311.84	37.94	12.75	50.69	74	-23.31	peak
7311.84	27.56	12.75	40.31	54	-13.69	AVG
9648.23	29.3	15.67	44.97	74	-29.03	peak
9648.23	22.52	15.67	38.19	54	-15.81	AVG

### Remark

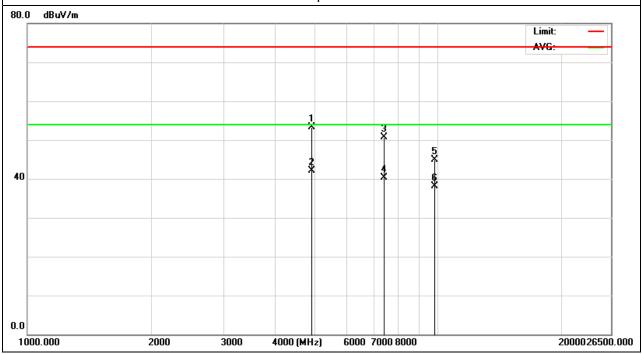


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH11(802.11n Mode)/20MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924.11	42.87	10.39	53.26	74	-20.74	peak
4924.11	31.8	10.39	42.19	54	-11.81	AVG
7386.19	38.01	12.68	50.69	74	-23.31	peak
7386.19	27.63	12.68	40.31	54	-13.69	AVG
9848.95	29.04	15.93	44.97	74	-29.03	peak
9848.95	22.26	15.93	38.19	54	-15.81	AVG

### Remark

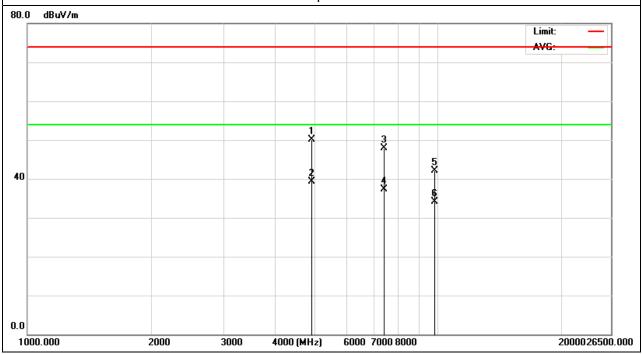


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH11(802.11n Mode)/20MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924.11	39.62	10.39	50.01	74	-23.99	peak
4924.11	28.99	10.39	39.38	54	-14.62	AVG
7386.19	35.26	12.68	47.94	74	-26.06	peak
7386.19	24.7	12.68	37.38	54	-16.62	AVG
9848.95	26.23	15.93	42.16	74	-31.84	peak
9848.95	18.23	15.93	34.16	54	-19.84	AVG

# Remark:

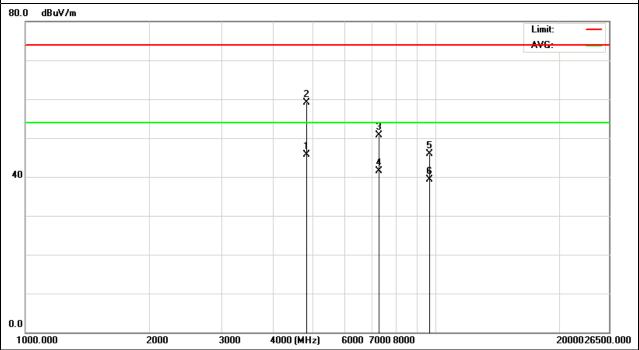


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH3(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844.45	35.15	10.5	45.65	54	-8.35	AVG
4844.54	48.69	10.5	59.19	74	-14.81	peak
7266.95	38.17	12.5	50.67	74	-23.33	peak
7266.95	28.92	12.5	41.42	54	-12.58	AVG
9688.26	29.98	15.99	45.97	74	-28.03	peak
9688.26	23.39	15.99	39.38	54	-14.62	AVG

### Remark

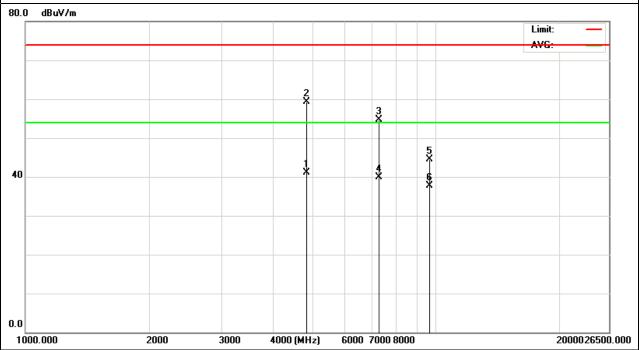


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH3(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844.45	30.66	10.5	41.16	54	-12.84	AVG
4844.54	48.76	10.5	59.26	74	-14.74	peak
7266.95	42.17	12.5	54.67	74	-19.33	peak
7266.95	27.44	12.5	39.94	54	-14.06	AVG
9688.26	28.49	15.99	44.48	74	-29.52	peak
9688.26	21.7	15.99	37.69	54	-16.31	AVG

# Remark:

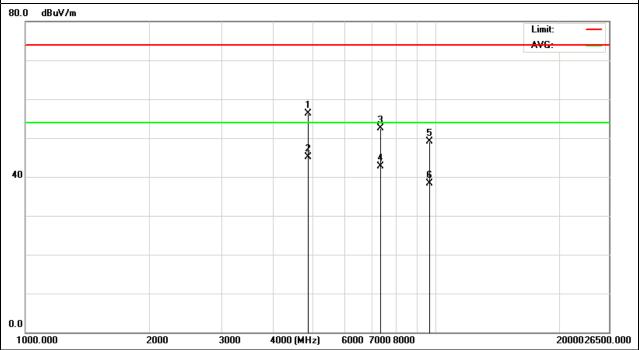


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH6(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874.33	45.86	10.4	56.26	74	-17.74	peak
4874.33	34.79	10.4	45.19	54	-8.81	AVG
7311.84	39.79	12.75	52.54	74	-21.46	peak
7311.84	29.92	12.75	42.67	54	-11.33	AVG
9648.23	33.51	15.67	49.18	74	-24.82	peak
9648.23	22.62	15.67	38.29	54	-15.71	AVG

### Remark

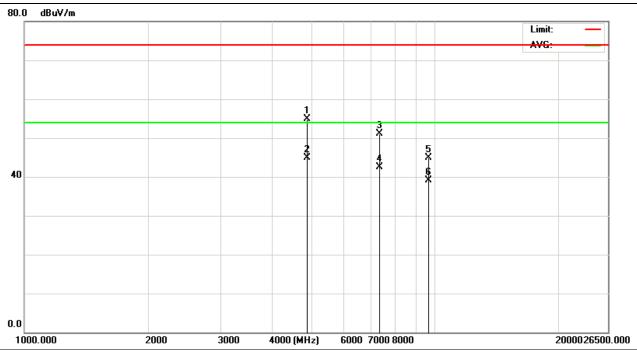


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH6(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874.33	44.57	10.4	54.97	74	-19.03	peak
4874.33	34.57	10.4	44.97	54	-9.03	AVG
7311.84	38.44	12.75	51.19	74	-22.81	peak
7311.84	29.72	12.75	42.47	54	-11.53	AVG
9648.23	29.3	15.67	44.97	74	-29.03	peak
9648.23	23.51	15.67	39.18	54	-14.82	AVG

# Remark:

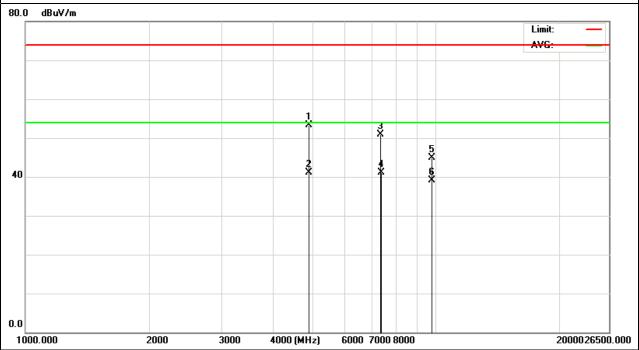


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH9(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904.18	42.97	10.29	53.26	74	-20.74	peak
4904.18	30.9	10.29	41.19	54	-12.81	AVG
7356.29	38.1	12.79	50.89	74	-23.11	peak
7359.29	28.38	12.79	41.17	54	-12.83	AVG
9808.54	28.86	16.11	44.97	74	-29.03	peak
9808.54	23.07	16.11	39.18	54	-14.82	AVG

# Remark:

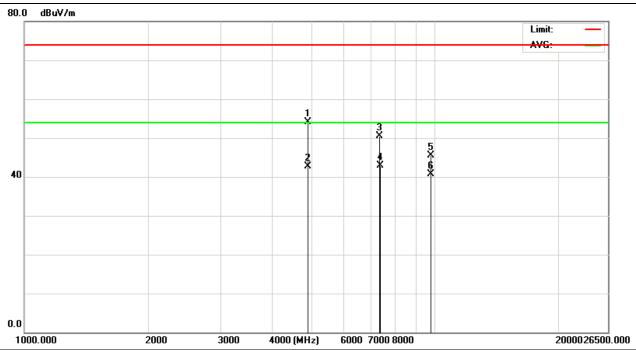


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH9(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904.18	43.82	10.29	54.11	74	-19.89	peak
4904.18	32.35	10.29	42.64	54	-11.36	AVG
7356.29	37.77	12.79	50.56	74	-23.44	peak
7359.29	30.19	12.79	42.98	54	-11.02	AVG
9808.54	29.33	16.11	45.44	74	-28.56	peak
9808.54	24.63	16.11	40.74	54	-13.26	AVG

### Remark



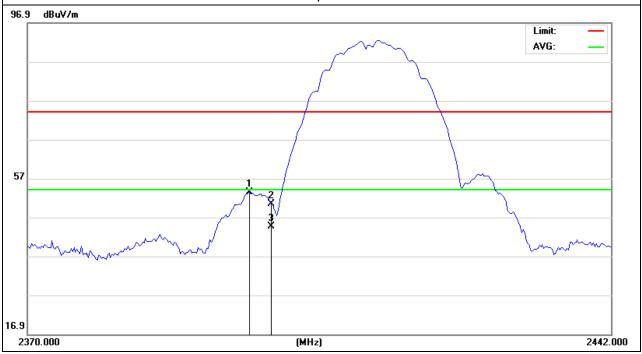


# **4.BAND EDGE EMISSION**

I-UI .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	41.18	-0.69	40.49	74	-33.51	peak
2400	37.94	-0.69	37.25	54	-16.75	AVG

# Remark:



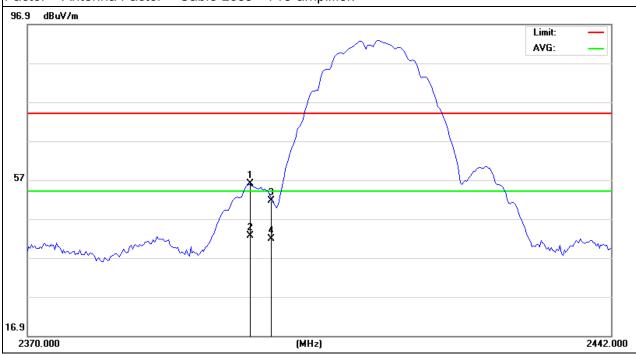


IEEE 802.11b/g/n Long EUT: Model Name : AIP-W525H Range AP-Router Relative Humidity: 20 ℃ Temperature: 48% Test Voltage : Pressure: 1010 hPa DC 12V CH1(802.11b Mode) Test Mode : Polarization: Vertical

Report No.: POCE12091126RF

						_
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2439.12	56.19	-0.69	55.5	74	-18.5	peak
2439.12	40.97	-0.69	40.28	54	-13.72	AVG

## Remark:

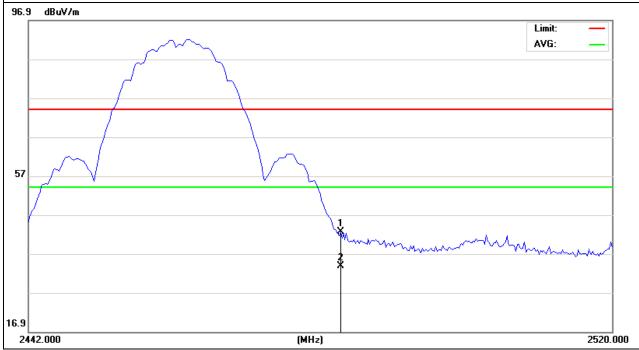


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	41.16	-0.47	40.69	74	-33.31	peak
2483.5	34.11	-0.47	33.64	54	-20.36	AVG

# Remark:



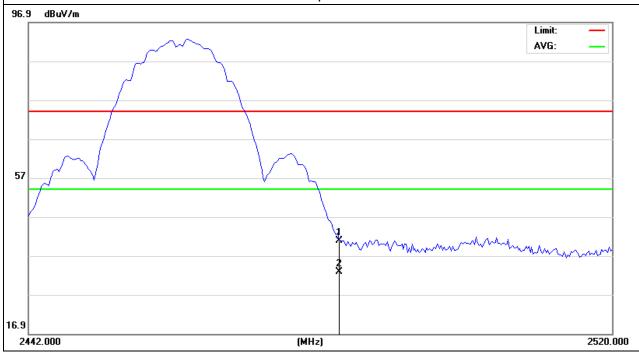


IEEE 802.11b/g/n Long EUT: Model Name : AIP-W525H Range AP-Router Relative Humidity: 20 ℃ Temperature: 48% Test Voltage : Pressure: 1010 hPa DC 12V CH11(802.11b Mode) Test Mode : Polarization: Vertical

Report No.: POCE12091126RF

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	40.16	-0.47	39.69	74	-34.31	peak
2483.5	33.11	-0.47	32.64	54	-21.36	AVG

## Remark:

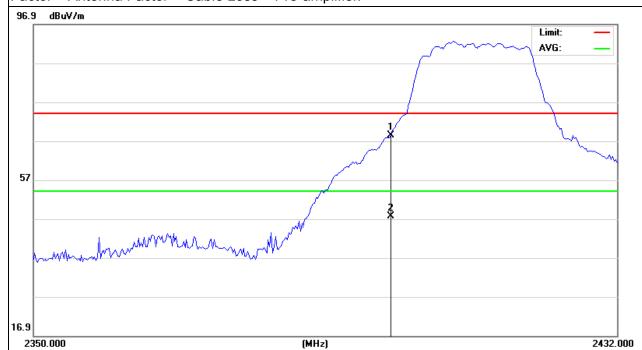


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	66.94	-0.69	66.25	74	-7.75	peak
2400	48.19	-0.69	47.5	54	-6.5	AVG

# Remark:

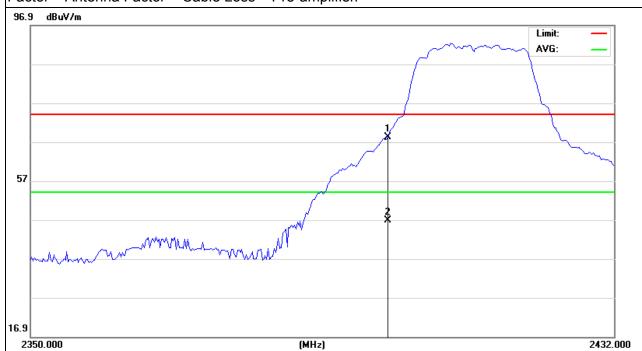


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	68.54	-0.69	67.85	74	-6.15	peak
2400	46.68	-0.69	45.99	54	-8.01	AVG

# Remark:

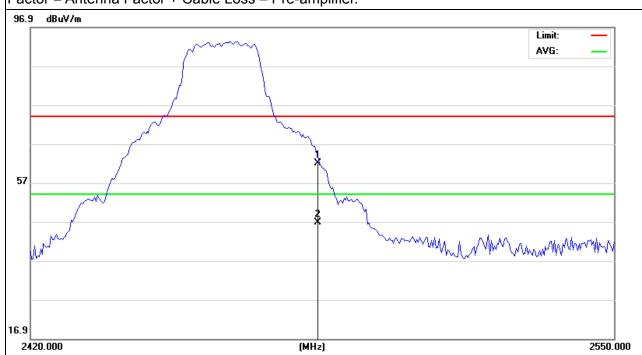


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	62.38	-0.47	61.91	74	-12.09	peak
2483.5	47.24	-0.47	46.77	54	-7.23	AVG

# Remark:

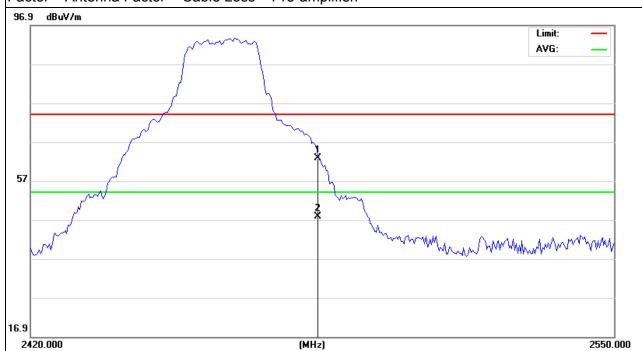


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	63.3	-0.47	62.83	74	-11.17	peak
2483.5	48.27	-0.47	47.8	54	-6.2	AVG

# Remark:

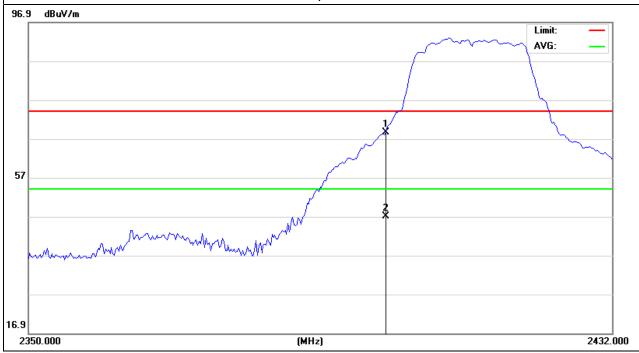




Report No.: POCE12091126RF

	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
TEST WOODE .	CH1(802.11N Mode)/20MHz (A+B )Antenna	Polarization :	Horizontal

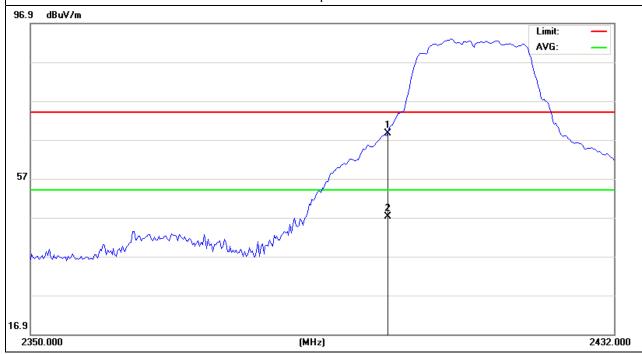
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	69.37	-0.69	68.68	74	-5.32	peak
2400	49.66	-0.69	48.97	54	-5.03	AVG





EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH1(802.11N Mode)/20MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	69.37	-0.69	68.68	74	-5.32	peak
2400	48.88	-0.69	48.19	54	-5.81	AVG

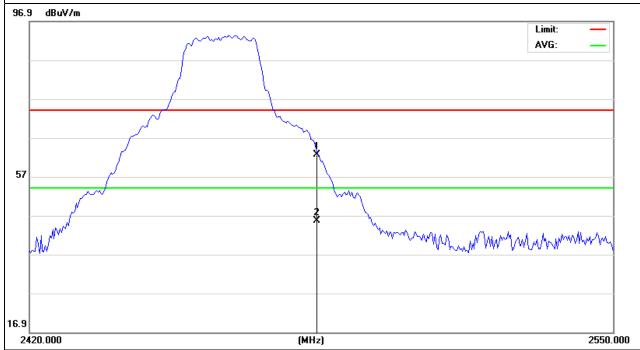


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
rest wode .	CH11(802.11N Mode)/20MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	65.03	-0.47	64.56	74	-9.44	peak
2483.5	47.12	-0.47	46.65	54	-7.35	AVG

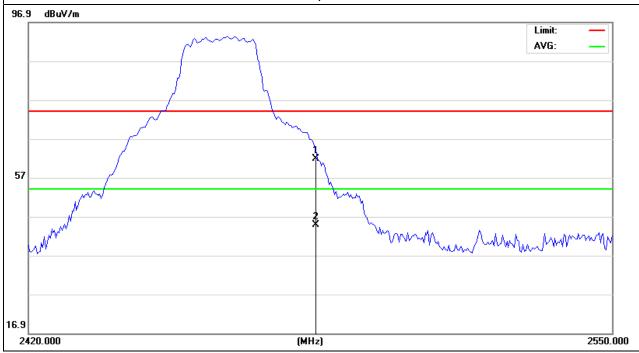
# Remark:





EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH11(802.11N Mode)/20MHz (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	64.33	-0.47	63.86	74	-10.14	peak
2483.5	47.29	-0.47	46.82	54	-7.18	AVG



IEEE 802.11b/g/n Long

Range AP-Router

20 ℃



Temperature :

EUT:

Model Name : AIP-W525H

Relative Humidity : 48%

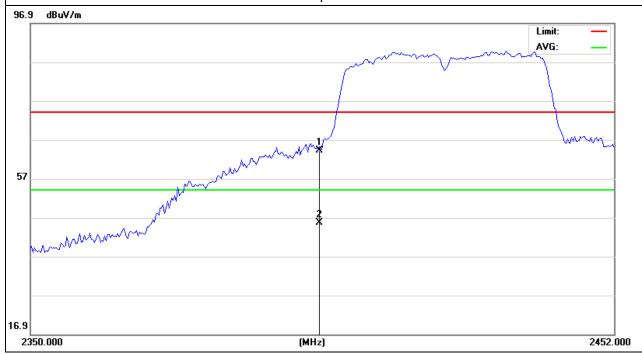
Test Voltage : DC 12V

Report No.: POCE12091126RF

Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH3(802.11n Mode)/40M (A+B )Antenna	Polarization :	Horizontal

	1				ı	1
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	83.86	-0.47	66.4	74	-7.6	peak
2400	65.25	-0.47	47.79	54	-7.21	AVG

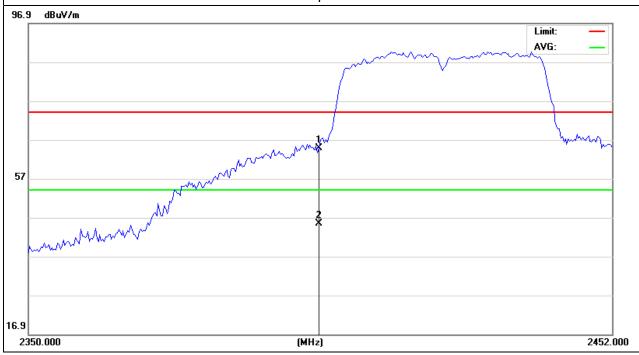
# Remark:





I			
EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH3(802.11n Mode)/40M (A+B )Antenna	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	67.47	-0.47	67	74	-7	peak
2483.5	47.12	-0.47	46.65	54	-7.35	AVG

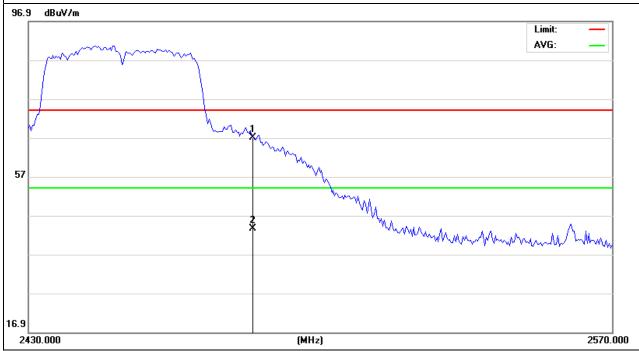


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EUT:	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	CH9(802.11n Mode)/40MHz (A+B )Antenna	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	68.32	-0.47	67.85	74	-6.15	peak
2483.5	48.31	-0.47	47.84	54	-6.16	AVG

# Remark:





Temperature:

Test Mode :

Pressure:

EUT:

_			
	EEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
2	0 ℃	Relative Humidity:	48%
1	010 hPa	Test Voltage :	DC 12V

Report No.: POCE12091126RF

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	68.69	-0.47	68.22	74	-5.78	peak
2483.5	48.78	-0.47	48.31	54	-5.69	AVG

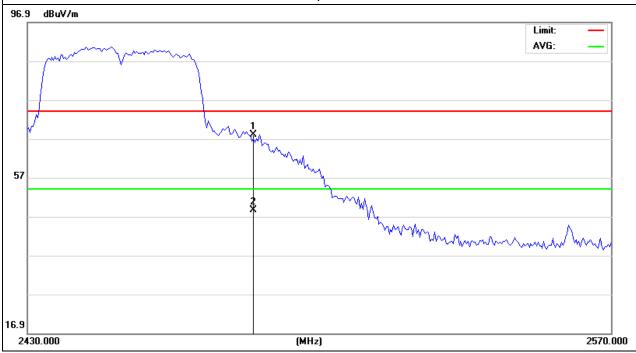
Polarization:

# Remark:

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

CH9(802.11n Mode)/40MHz

(A+B )Antenna





## 5. POWER SPECTRAL DENSITY TEST

## 5.1 APPLIED PROCEDURES / LIMIT

011 7(11 E1ED 1 1(00ED 0((E0) E1)(11)								
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				

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

## **5.1.1 TEST PROCEDURE**

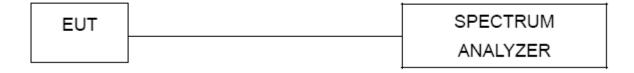
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting: RBW= 3KHz, VBW=30KHz, Sweep time = 500s.

## **5.1.2 DEVIATION FROM STANDARD**

No deviation.

## **5.1.3 TEST SETUP**



## **5.1.4 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.

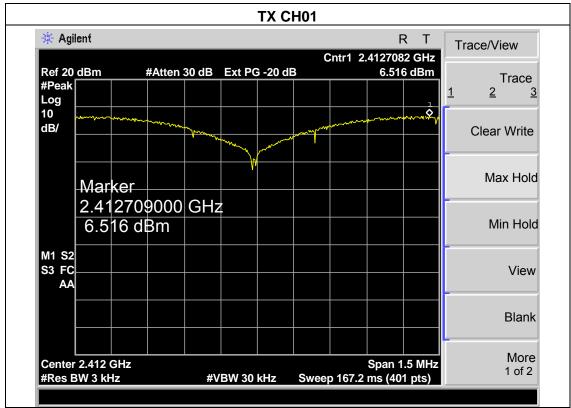


**5.1.5 TEST RESULTS** 

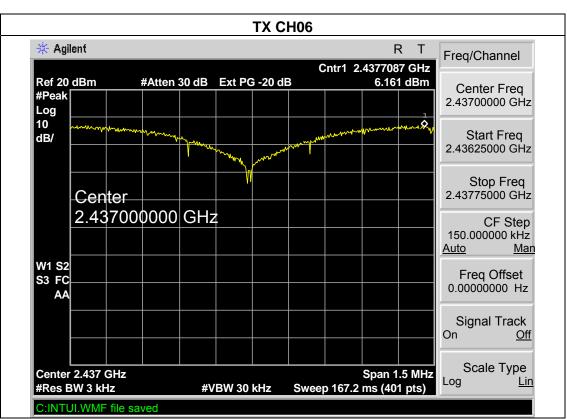
	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H	
Temperature:	<b>25</b> ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage :	DC 12V	
Test Mode :	TX B MODE /CH01, CH06, CH11			

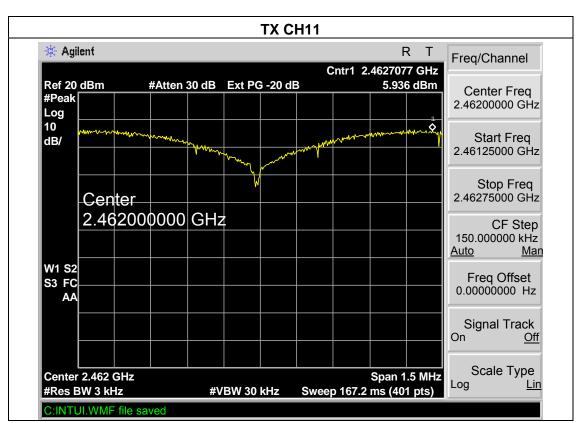
Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	6.516	1.321	8	PASS
2437MHz	6.161	1.158	8	PASS
2462 MHz	5.936	1.669	8	PASS

**Note**: A(B) Represent the value of antennaA and B,The worst data is A Antenna , only shown Antenna A Plot.







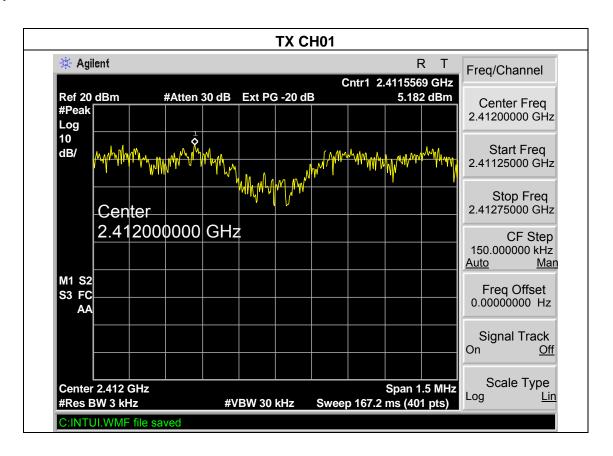




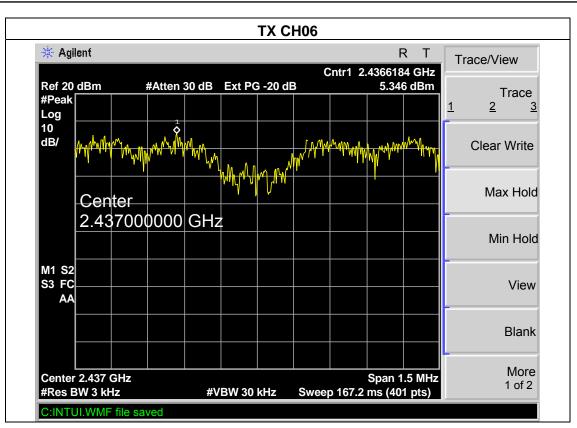
I=III .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H		
Temperature :	<b>25</b> ℃	Relative Humidity:	60%		
Pressure :	1015 hPa	Test Voltage :	DC 12V		
Test Mode :	TX G MODE /CH01, CH06, CH11				

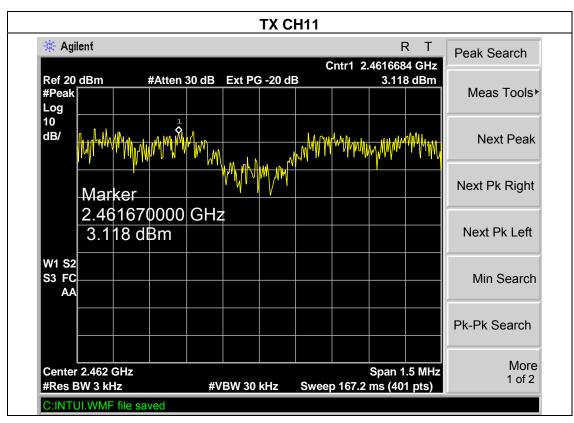
Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	5.182	1.226	8	PASS
2437MHz	5.346	1.687	8	PASS
2462 MHz	3.118	1.011	8	PASS

**Note**: A(B) Represent the value of antennaA and B,The worst data is A Antenna, only shown Antenna A Plot.











EUT:

IEEE 802.11b/g/n Long
Range AP-Router

Model Name : AIP-W525H

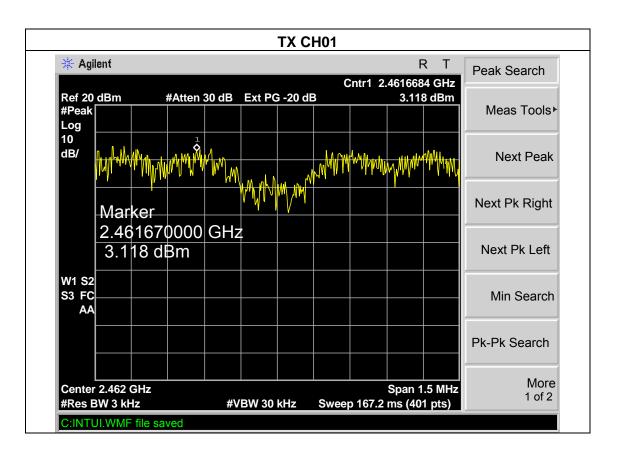
Report No.: POCE12091126RF

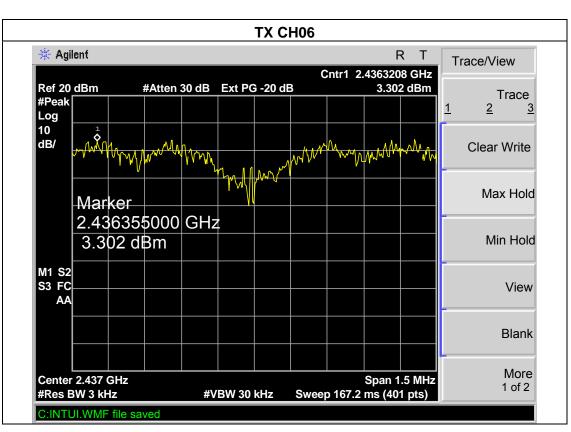
Temperature :  $25 \,^{\circ}\text{C}$  Relative Humidity : 60% Pressure :  $1015 \,\text{hPa}$  Test Voltage : DC 12V

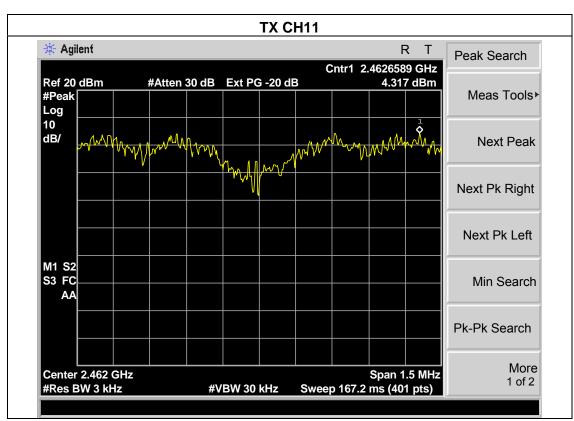
Test Mode: TX n MODE /CH01, CH06, CH11

Frequency	Power Density A (dBm)	Power Density B (dBm)	Total Power (dBm)	Limit (dBm)	Result
2412 MHz	3.118	1.154	4.59	8	PASS
2437MHz	3.302	1.264	4.65	8	PASS
2462 MHz	4.317	1.365	4.98	8	PASS

**Note**: A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.





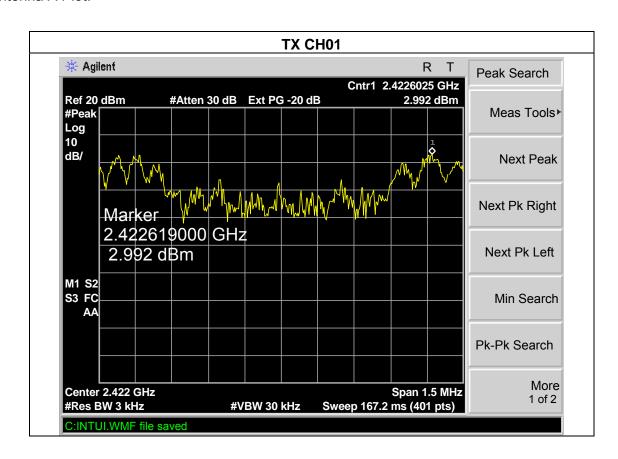




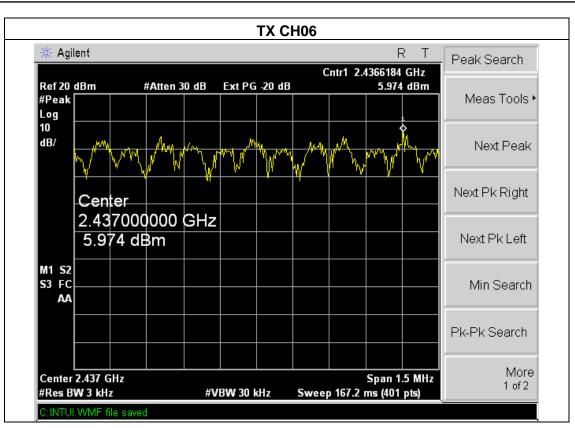
EUT:	IEEE 802.11b/g/n Long	Model Name :	AID WESELI	
	Range AP-Router	iviouei ivairie ·	AIP-W525H	
Temperature :	<b>25</b> ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage :	DC 12V	
Test Mode :	TX n MODE /CH03, CH06, CH09/40MHz			

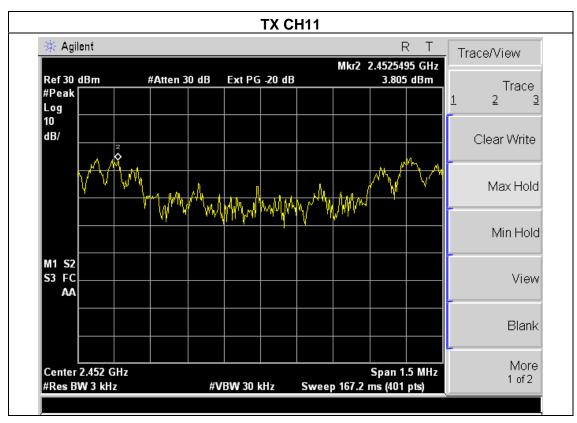
Frequency	Power Density A (dBm)	Power Density B (dBm)	Total Power (dBm)	Limit (dBm)	Result
2412 MHz	2.992	1.065	3.54	8	PASS
2437MHz	5.974	1.664	6.12	8	PASS
2462 MHz	3.805	1.007	4.15	8	PASS

**Note**: A(B) Represent the value of antennaA and B,The worst data is A Antenna ,only shown Antenna A Plot.











**6. BANDWIDTH TEST** 

## **6.1 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

Report No.: POCE12091126RF

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

## **6.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

## 6.1.2 DEVIATION FROM STANDARD

No deviation.

# 6.1.3 TEST SETUP



## **6.1.4 EUT OPERATION CONDITIONS**

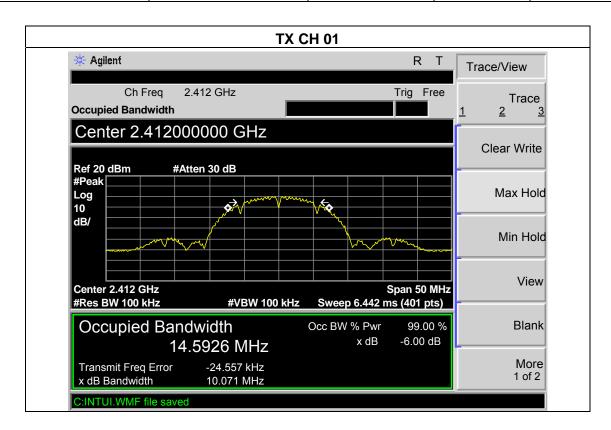
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## **6.1.5 TEST RESULTS**

IF()   .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX B MODE /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.07	14.59	>=500KHz	PASS
2437 MHz	9.85	14.68	>=500KHz	PASS
2462 MHz	10.11	14.74	>=500KHz	PASS



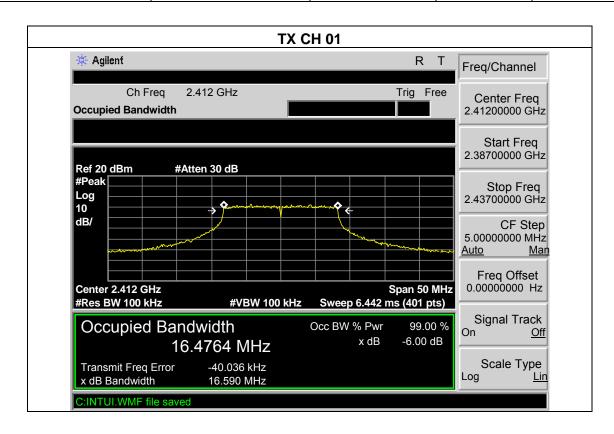




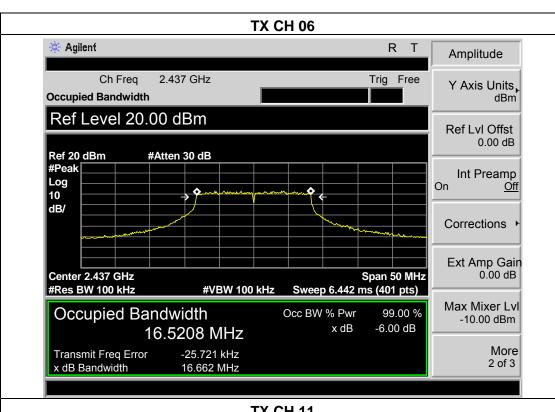


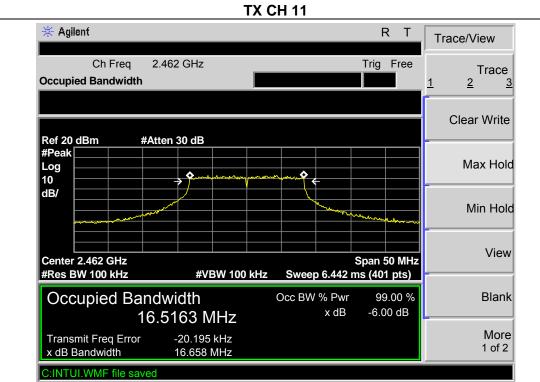
	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX G MODE /CH01, CH06, CH	11	

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.59	16.47	>=500KHz	PASS
2437 MHz	16.66	16.52	>=500KHz	PASS
2462 MHz	16.65	16.51	>=500KHz	PASS





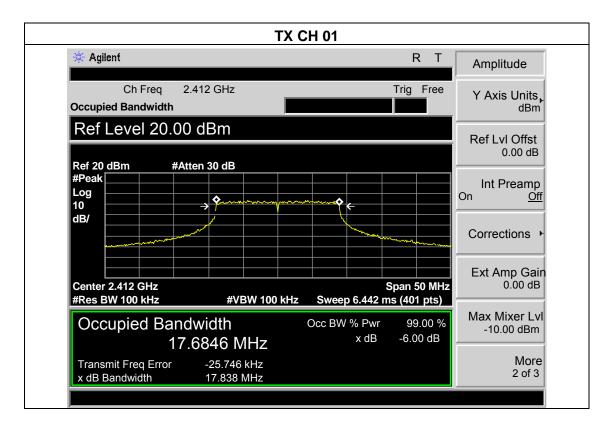






	IEEE 802.11b/g/n Long	Model Name :	AIP-W525H
	Range AP-Router		
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX n MODE /CH01, CH06, CH	11/20MHz	

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.83	17.68	>=500KHz	PASS
2437 MHz	17.86	17.69	>=500KHz	PASS
2462 MHz	17.87	17.70	>=500KHz	PASS





Center 2.462 GHz

#Res BW 100 kHz

Transmit Freq Error

C:INTUI.WMF file saved

x dB Bandwidth

Occupied Bandwidth

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View

Blank

More

1 of 2

Span 50 MHz

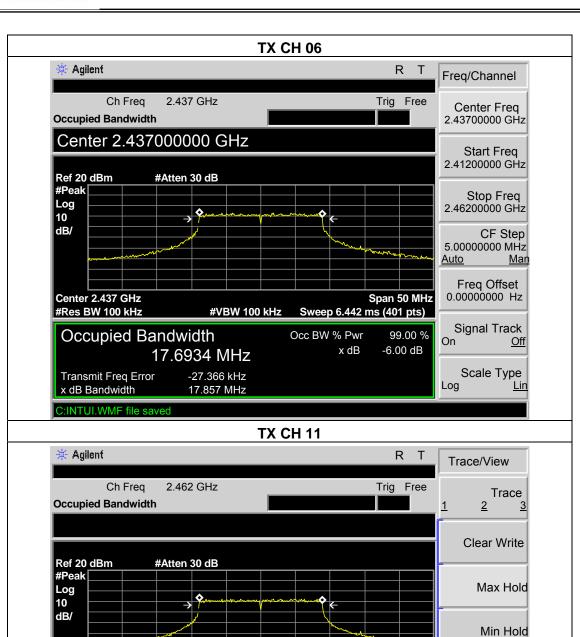
99.00 %

-6.00 dB

Sweep 6.442 ms (401 pts)

x dB

Occ BW % Pwr



#VBW 100 kHz

17.7051 MHz

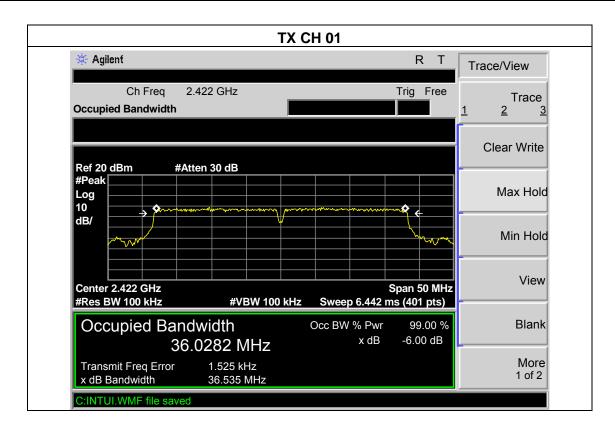
-22.977 kHz

17.877 MHz

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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX n MODE /CH03, CH06, CH	09/40MHz	

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	36.53	36.02	>=500KHz	PASS
2437 MHz	36.53	35.98	>=500KHz	PASS
2462 MHz	36.54	35.99	>=500KHz	PASS





Center 2.452 GHz

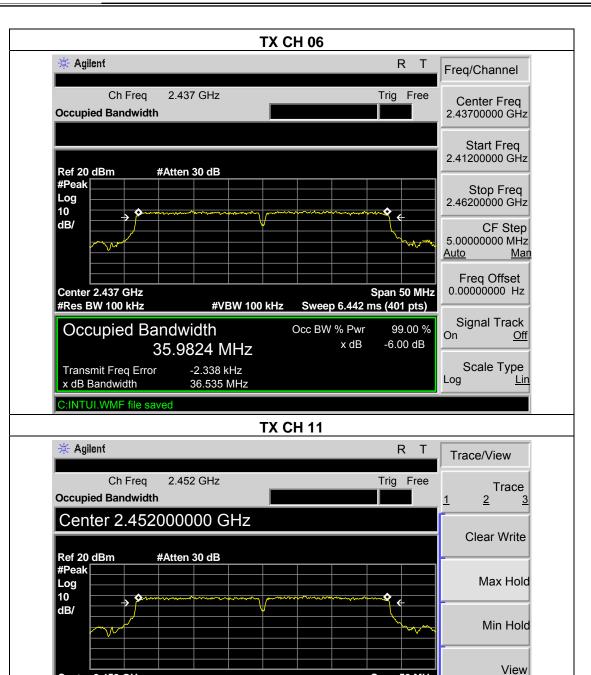
#Res BW 100 kHz

Transmit Freq Error

C:INTUI.WMF file saved

x dB Bandwidth

Occupied Bandwidth



#VBW 100 kHz

35.9930 MHz

8.028 kHz

36.547 MHz

Span 50 MHz

99.00 %

-6.00 dB

Blank

More

1 of 2

Sweep 6.442 ms (401 pts)

x dB

Occ BW % Pwr



## 7. PEAK OUTPUT POWER TEST

### 7.1 APPLIED PROCEDURES / LIMIT

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

### 7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer.

### 7.1.2 DEVIATION FROM STANDARD

No deviation.

### **7.1.3 TEST SETUP**

EUT	SPECTRUM
	ANALYZER

## 7.1.4 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.

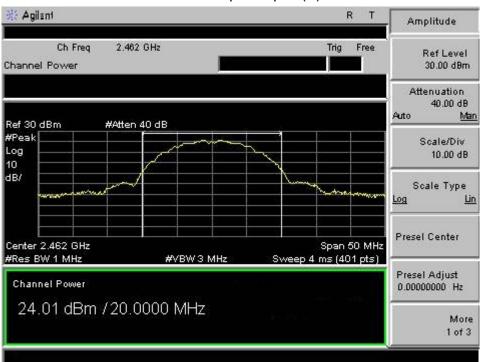


### 7.1.5 TEST RESULTS

IEUI .	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX B MODE /CH01, CH06, CH	11	

Test Channel	Frequency	Peak output power. Antenna A	Peak output power. Antenna B	Antenna Gain A(B)	Max. Power	LIMIT
	(MHz)	dBm	dBm	dBi	dBm	dBm
CH01	2412	23.47	19.87	-1	22.47	30
CH06	2437	23.18	18.66	-1	22.18	30
CH11	2462	24.01	18.67	-1	23.01	30

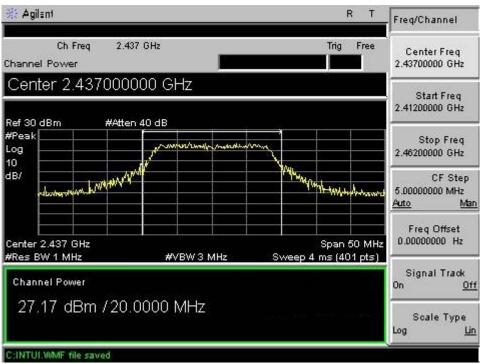
Note: A(B) Represent the value of antennaA and B





		IEEE 802.11b/g/n Long Range AP-Router		Model Name :		AIP-W525H		
Temperature:		25 ℃		Rel	ative Humidity:	60%		
Pressure:		10	1012 hPa		Tes	t Voltage :	DC 12V	
Test Mode :		ΤX	TX G MODE /CH01, CH06, CH11/20MHz					
Test Channel	Frequer	су	Peak output power. Antenna A	Peak outp power. Antenna		Antenna Gain A(B)	Max. Power	LIMIT
	(MHz)	)	dBm	dBi		dBi	dBm	dBm
CH01	2412		26.98	18.64		-1	25.98	30
CH06	2437		27.17	18.66	•	-1	26.17	30
CH11	2462		26.45	18.24		-1	25.45	30

Note: A(B) Represent the value of antennaA and B





EUT: IEEE 802.11b/g/n Long Range AP-Router Model Name: AIP-W525H

Temperature: 25 ℃ Relative Humidity: 60%

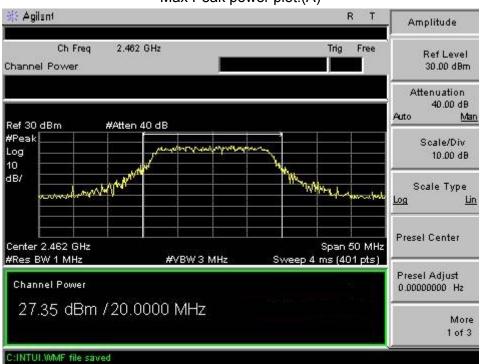
Pressure: 1012 hPa Test Voltage: DC 12V

Test Mode: TX N MODE /CH01, CH06, CH11

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Test Channel	Frequency	Peak output power. Antenna A(B)	Antenna Gain A(B)	EIRP A(B)	Total Power	LIMIT
	(MHz)	(dBm)	dBi	dBm	dBm	dBm
CH01	2412	27.22(18.12)	-1	26.22(17.12)	26.7239	30
CH06	2437	27.15(18.42)	-1	26.15(17.42)	26.7578	30
CH11	2462	27.35(18.33)	-1	26.35(17.33)	26.86274	30

Note: A(B) Represent the value of antennaA and B

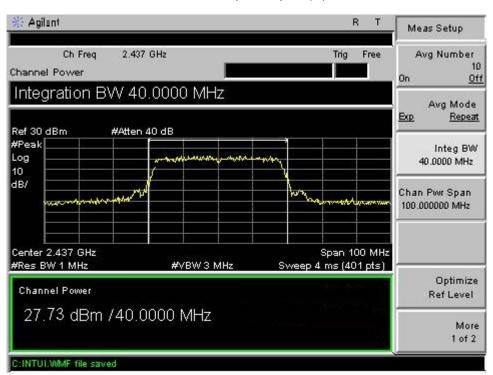


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	IEEE 802.11b/g/n Long Range AP-Router	Model Name :	AIP-W525H	
Temperature :	<b>25</b> ℃	Relative Humidity:	60%	
Pressure:	1012 hPa	Test Voltage :	DC 12V	
Test Mode :	TX N MODE /CH03, CH06, CH09/40MHz			

Test Channel	Frequency	Peak output power. Antenna A(B)	Antenna Gain A(B)	EIRP A(B)	Total Power	LIMIT
	(MHz)	(dBm)	dBi	dBm	dBm	dBm
CH03	2422	27.05(18.74)	-1	26.05(17.74)	26.64779	30
CH06	2437	27.73(18.36)	-1	26.73(17.36)	27.20513	30
CH09	2452	27.42(18.54)	-1	26.42(17.54)	26.9056	30

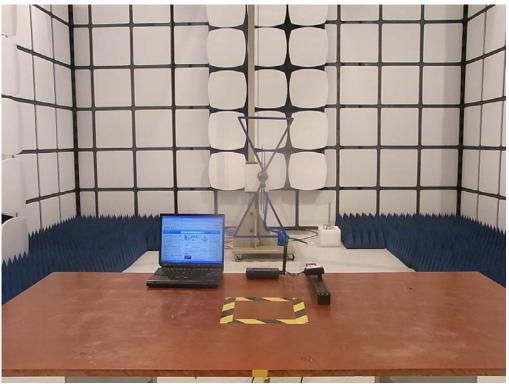
Note: A(B) Represent the value of antennaA and B

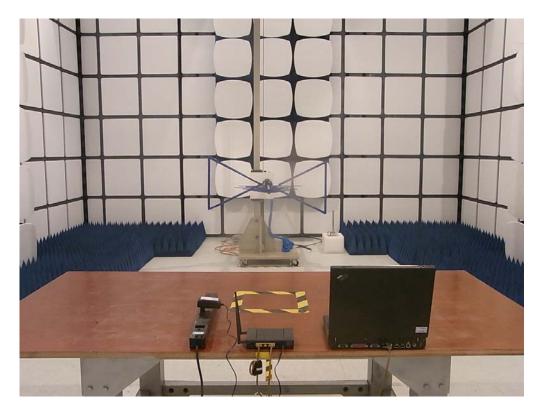




# 8. EUT TEST PHOTO









## **Conducted Measurement Photos**



