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FCC CERTIFICATION TEST REPORT

FOR FCC ID:2ACOE-SKW71 IC:20742-SKW71

Report Reference No	:	15FAS09060 11
Nate of issue		2015-10-20

Testing Laboratory: ATT Product Service Co., Ltd.

DongGuan City, GuangDong, China.

Applicant's name...... Skylab M&C Technology Co.,Ltd

Address 9th Floor,zhongguang Building,Yayuan

Road, Bantian, Shenzhen

Manufacturer..... Skylab M&C Technology Co.,Ltd

Test specification:

Test item description.....: Wifi module

Trade Mark....:

Model/Type reference SKW71

Ratings...... DC 3.3V 350mA

Responsible Engineer Approved by

(Smile Wang/Engineer)

Smile Wong

(King Wang/EMC Manger)

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TEST REPORT DECLARE

Applicant		Skylab M&C Technology Co.,Ltd	
Address	:	9th Floor,zhongguang Building,Yayuan Road,Bantian,Shenzhen	
Equipment under Test	:	Wifi module	
Model No		SKW71	
FCC ID		2ACOE-SKW71	
Manufacturer	::	Skylab M&C Technology Co.,Ltd	
Address	••	9th Floor,zhongguang Building,Yayuan Road,Bantian,Shenzhen	

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C: 2015

RSS-247 ISSUE 1 MAY 2015 & RSS-GEN ISSUE 4 NOV 2014

Test procedure used: ANSI C63.10:2013, ANSI C63.4:2014

We Declare:

The equipment described above is tested by ATT Product Service Co., Ltd., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and ATT Product Service Co., Ltd., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

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Date of Test:	2015/10/12~2015/10/19	Date of Report:	2015/10/20

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of ATT Product Service Co., Ltd.



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1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.				
Description of Test Item	Standard	Results		
6dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247 KDB558074	PASS		
Peak Output Power	FCC Part 15: 15.247 KDB558074	PASS		
Power Spectral Density	FCC Part 15: 15.247 KDB558074	PASS		
Band Edge	FCC Part 15: 15.247	PASS		
Spurious Emission	15.205/15.209	PASS		
Power Line Conducted Emission	FCC Part 15: 15.207	PASS		
Antenna requirement	FCC Part 15: 15.203	PASS		



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2. General test information

2.1. Description of EUT

EUT* Name	:	Wifi module
Model Number	:	SKW71
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 5V from adapter
Radio Technology	:	IEEE802.11b/g/n
FCC Operation frequency	:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Modulation	:	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 Type	:	Printed antenna, maximum PK gain:2dBi
Date of Receipt	:	2015/10/20
Sample Type	:	Series production

Note1: EUT is the ab.of equipment under test.

Channle information							
CH	Frequency	CH	Frequency	CH	Frequency	CH	Frequency
1	2412	5	2432	9	2452	/	/
2	2417	6	2437	10	2457	/	/
3	2422	7	2442	11	2462	/	/
4	2427	8	2447	/	/	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number or Type	Output.
AC ADAPTOR	Skylab M&C Technology Co.,Ltd	BSF-137F	5V/2A

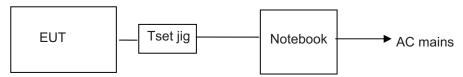


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2.3. Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number or Type	EMC Compliance	SN
Notebook	DELL	Latitude D610	FCC DOC	00045-534-136-300

2.4. Block diagram of EUT configuration for test



EUT was connected to control to a special test jig provided by manufacturer which has a standard RSS-232 connector to connect to Notebook, and the Notebook will run a special test software

"MP_Kit_PTI_11p_8188ELIS_LISB" provided by manufacturer to control ELIT work in Continuous TX mode.

"MP_Kit_RTL11n_8188EUS_USB" provided by manufacturer to control EUT work in Continuous TX mode (>98% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information						
data rate (Mpbs)	Channel	Frequency				
(see Note)		(MHz)				
1	Low :CH1	2412				
1	Middle: CH6	2437				
1	High: CH11	2462				
6	Low :CH1	2412				
6	Middle: CH6	2437				
6	High: CH11	2462				
MCS 0	Low :CH1	2412				
MCS 0	Middle: CH6	2437				
MCS 0	High: CH11	2462				
MCS 0	Low :CH3	2422				
MCS 0	Middle: CH6	2437				
MCS 0	High: CH9	2452				
	data rate (Mpbs) (see Note) 1 1 1 6 6 6 MCS 0 MCS 0 MCS 0 MCS 0 MCS 0 MCS 0 MCS 0	data rate (Mpbs) Channel (see Note) 1 Low :CH1 1 Middle: CH6 1 High: CH11 6 Low :CH1 6 Middle: CH6 6 High: CH11 MCS 0 Low :CH1 MCS 0 Middle: CH6 MCS 0 High: CH11 MCS 0 Low :CH3 MCS 0 Middle: CH6				

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



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2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 ℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.6. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.44dB
Uncertainty for Radiation Emission test (150KHz-30MHz)	3.21dB
Uncertainty for Radiation Emission toot (20MHz 10Hz)	3.14 dB (Polarize: V)
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.16 dB (Polarize: H)
Uncortainty for Padiation Emission tost (1GHz to 25GHz)	2.08dB(Polarize: V)
Uncertainty for Radiation Emission test (1GHz to 25GHz)	2.56dB (Polarize: H)
Uncertainty for radio frequency	1×10-9
Uncertainty for conducted RF Power	0.65dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence evel using a coverage factor of k=2.



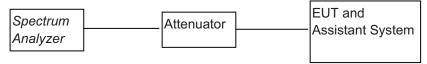
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3. 6dB Bandwidth and 99% Bandwidth

3.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.2 6	2015/12/26	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2015/12/26	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2015/12/26	1 Year

β.2. Block diagram of test setup



3.3. Limits

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 KHz

3.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 3.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) Set the spectrum analyzer as follows:

RBW:	100KHz
VBW:	300KHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

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



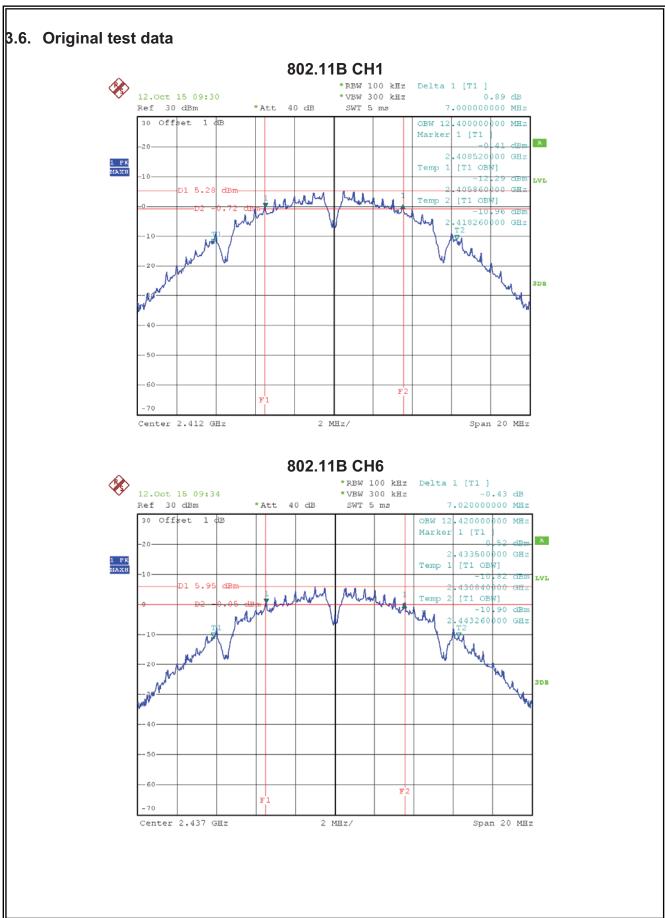
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3.5. Test Result

FUT Cat Mada	CH or	6 dB bandwidth	99% dB bandwidth
EUT Set Mode	Frequency	Result (MHz)	Result (MHz)
	CH1	7	12.4
11b	CH6	7.02	12.42
	CH11	7	12.48
	CH1	16.48	16.42
11g	CH6	16.44	16.44
	CH11	16.48	16.42
	CH1	17.78	17.6
11n HT 20	CH6	17.74	17.62
	CH11	17.72	17.6
	CH3	36.24	35.88
11n HT 40	CH6	36.28	35.92
	CH9	36.16	35.84
imit: >500KHz			Conclusion: PASS

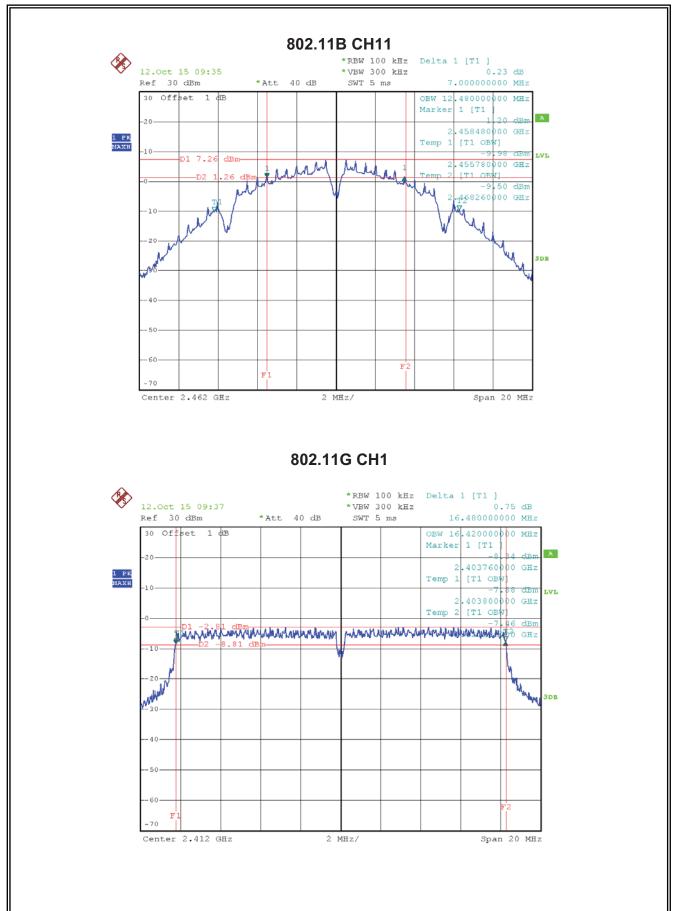


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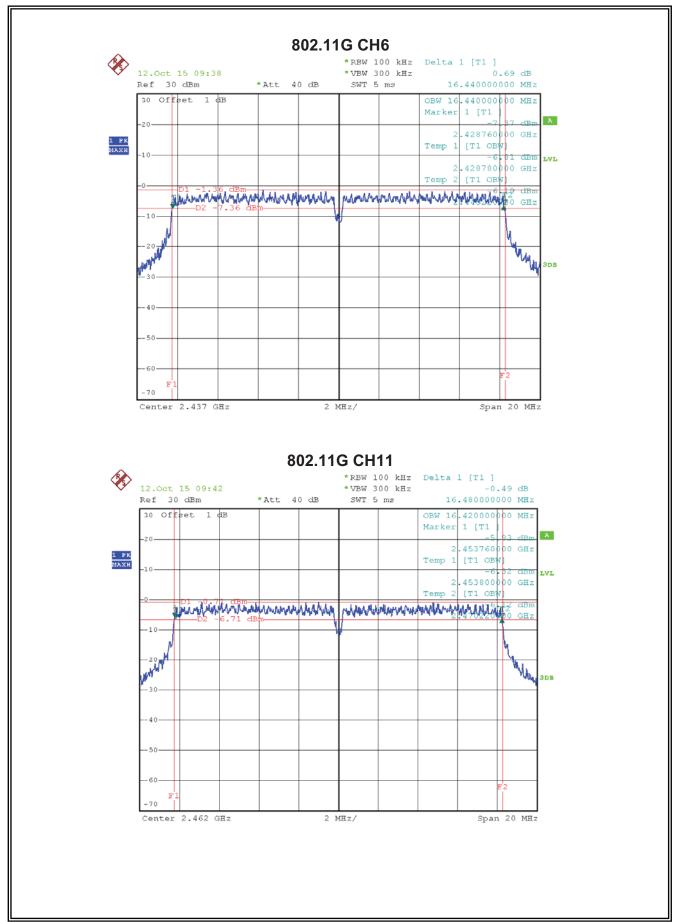


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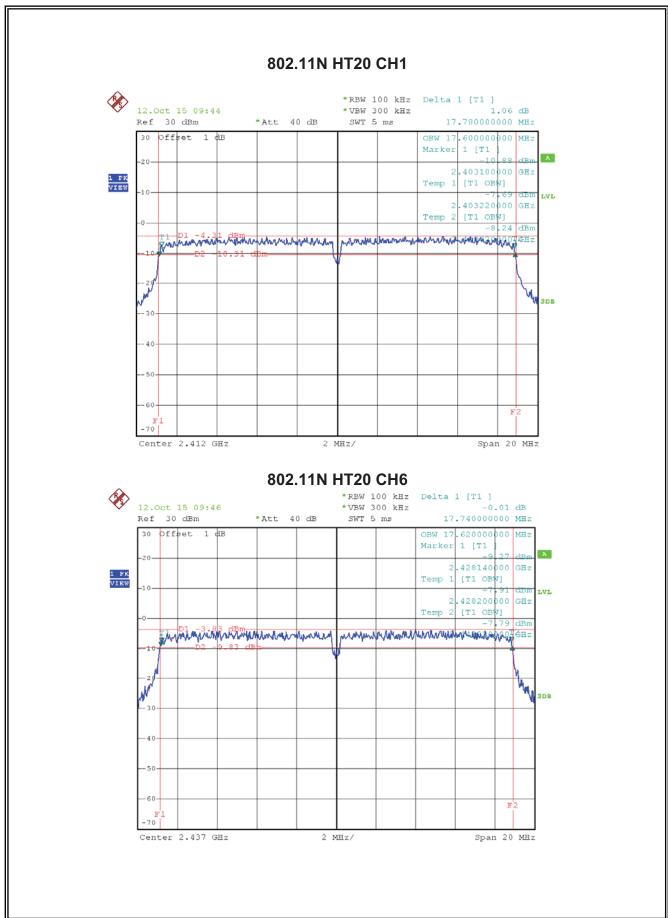




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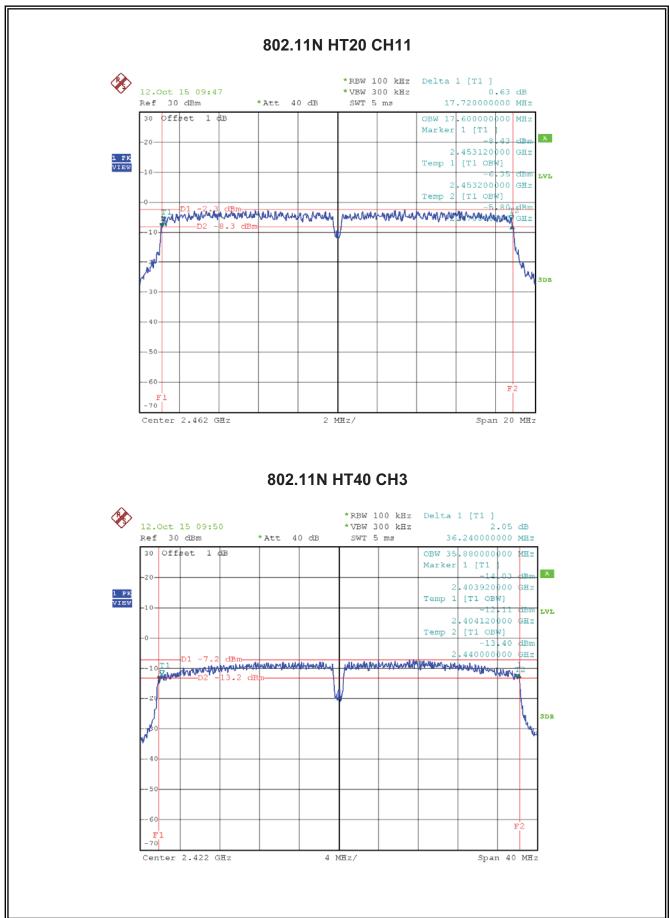


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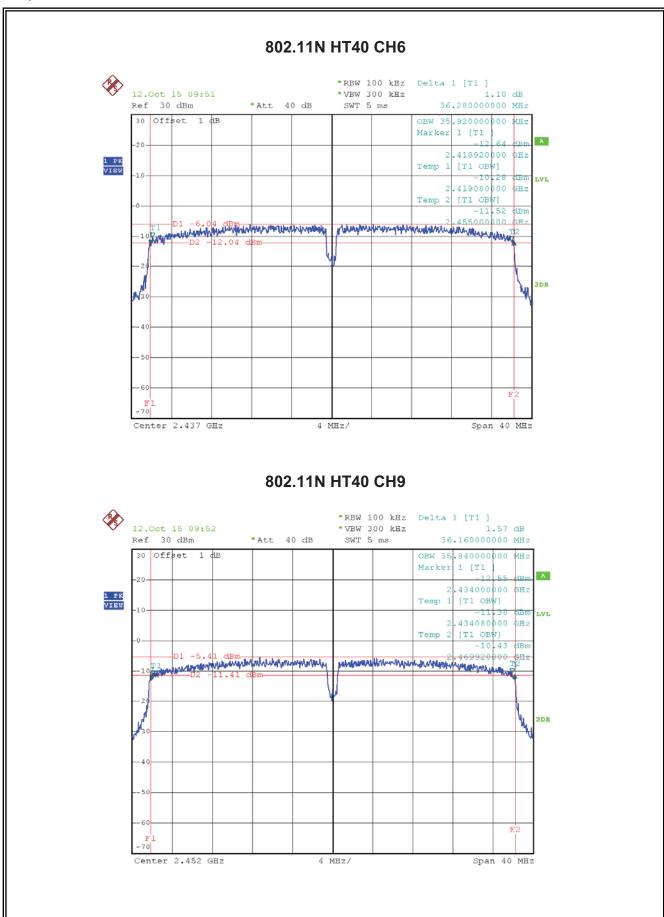


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4. Conducted Peak Output Power

4.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Power meter	Agilent	E4417A	MY45100473	2015/12/26	1 Year
2	Wireband Power sensor	Agilent	E4427A	MY5100041	2015/12/26	1Y

4.2. Block diagram of test setup



4.3. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.4. Test Procedure

- (1) Place the EUT on a bench and set it in transmitting mode.
- (2) A wide band power meter with a matched thermocouple detector was used to directly measure the output power from the RF output port of the EUT in continuously transmitting mode.
- (3) The measurement shall be repeated at the lowest, the middle, and the highest channel of the stated frequency range.



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4.5. Test Result

EUT: Wifi module M/N: SKW71				
CUT Cot Mode	Data Rate		CII	Result(dBm)
EUT Set Mode	Soit power set	(Mbp/s)	CH	Peak
			CH1	14.29
11b	53	1	CH6	15.15
			CH11	15.67
			CH1	16.13
11g	53	6	CH6	17.10
			CH11	17.77
			CH1	14.63
11n HT20	53	MCS 0	CH6	15.71
			CH11	16.18
			CH3	14.81
11n HT40	53	MCS0	CH6	15.51
			CH9	15.66
Limit: 30dBm (PK power)			Conclusion: PASS	



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5. Power Spectral Density

5.1 Test equipment

Same with 3.1

5.2 Block diagram of test setup

Same with 3.2

5.3 Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

5.4 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 5.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) Set the spectrum analyzer as follows:

Center frequency	DTS Channel center frequency
RBW:	3 kHz ≤ RBW ≤ 100 kHz
VBW:	≥ 3RBW
Span	1.5times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

- (5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- (6) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



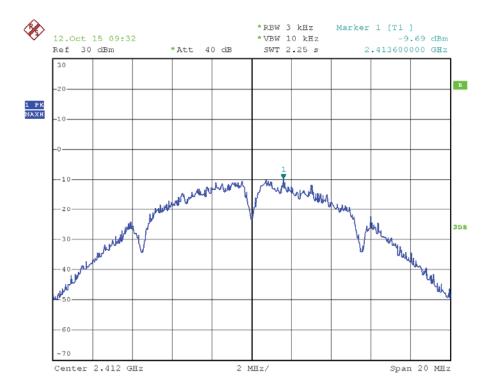
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5.5 Test Result

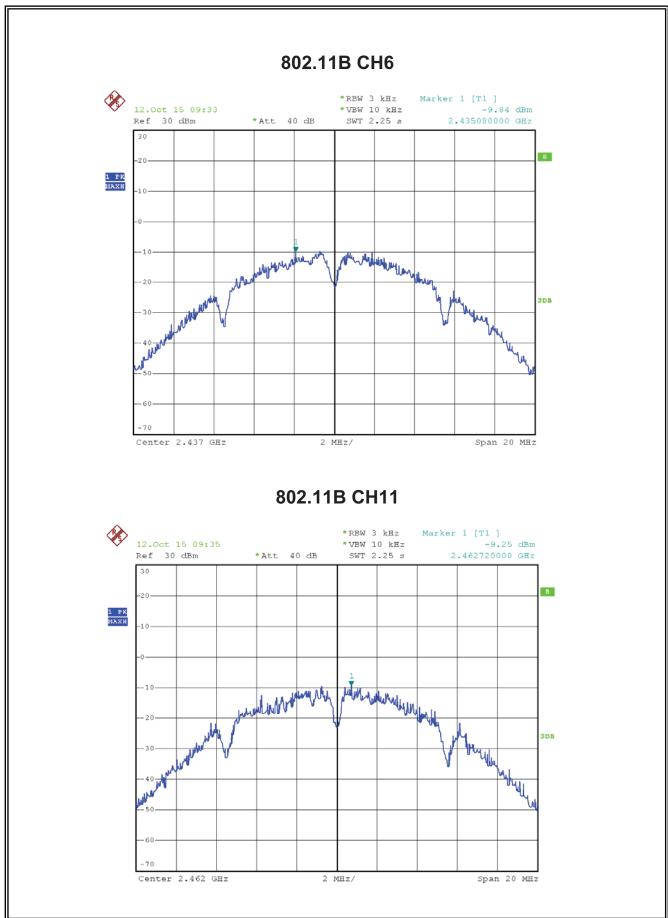
EUT Set Mode	CH or Frequency	Result	EUT Set Mode	CH or Frequency	Result
	CH1	-9.69dBm		CH1	-17.66dBm
11b	CH6	-9.84dBm	11n HT 20	CH6	-15.66dBm
	CH11	-9.25 dBm		CH11	-13.85dBm
	CH1	-13.64dBm		CH3	-19.27dBm
11g	CH6	-13.62dBm	11n HT 40	CH6	-17.64dBm
	CH11	-11.69dBm	1	CH9	-17.26dBm
Limit: <8dBm/3KHz			Conclusion: PAS	SS	,

5.6 Original test data

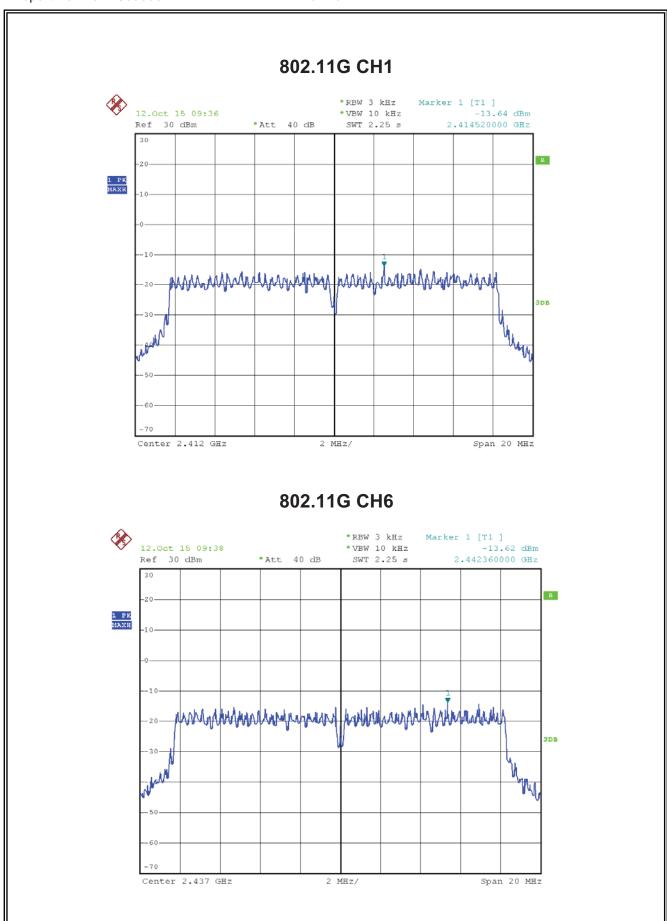
802.11B CH1



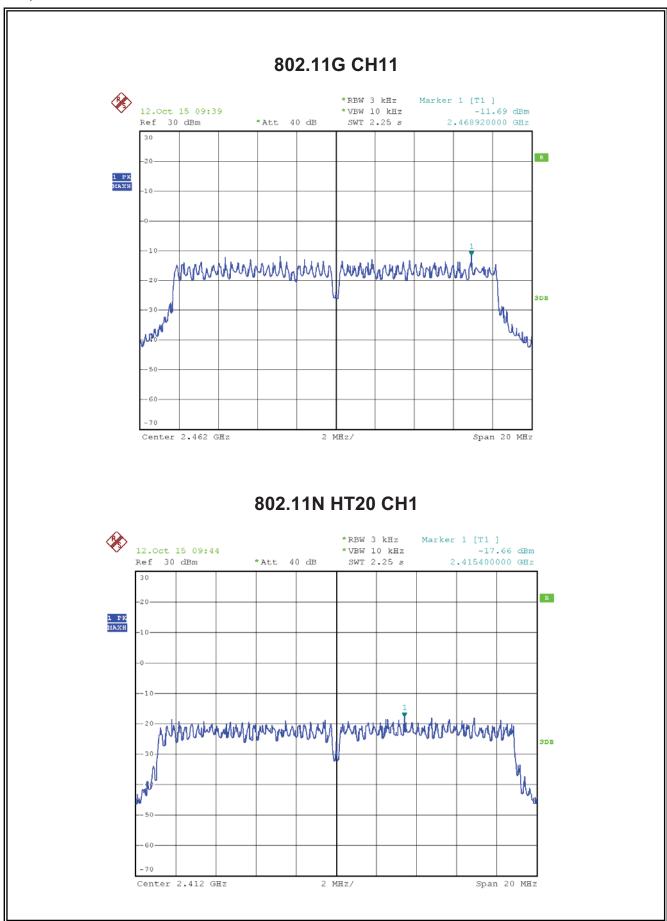
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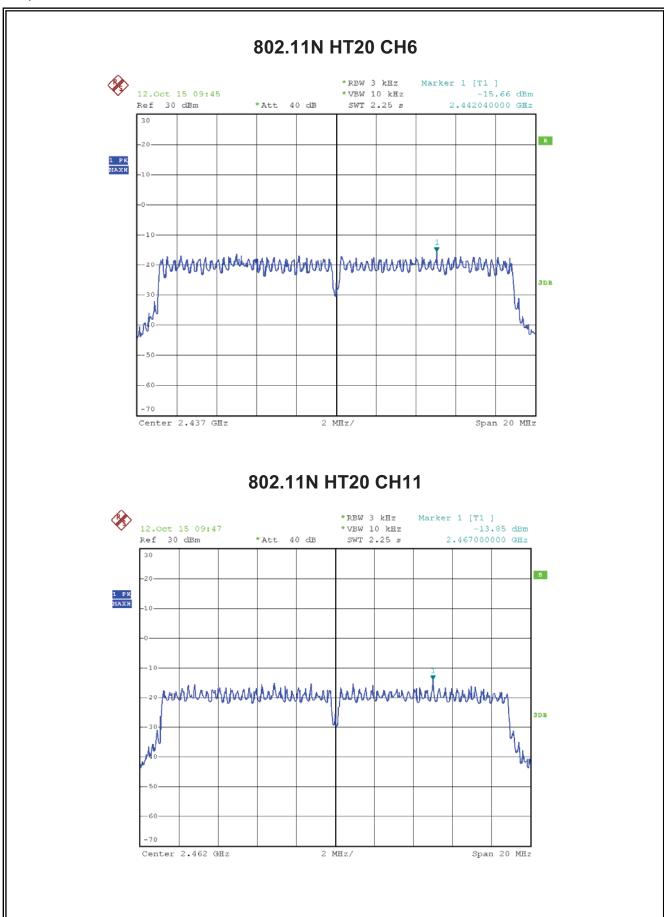


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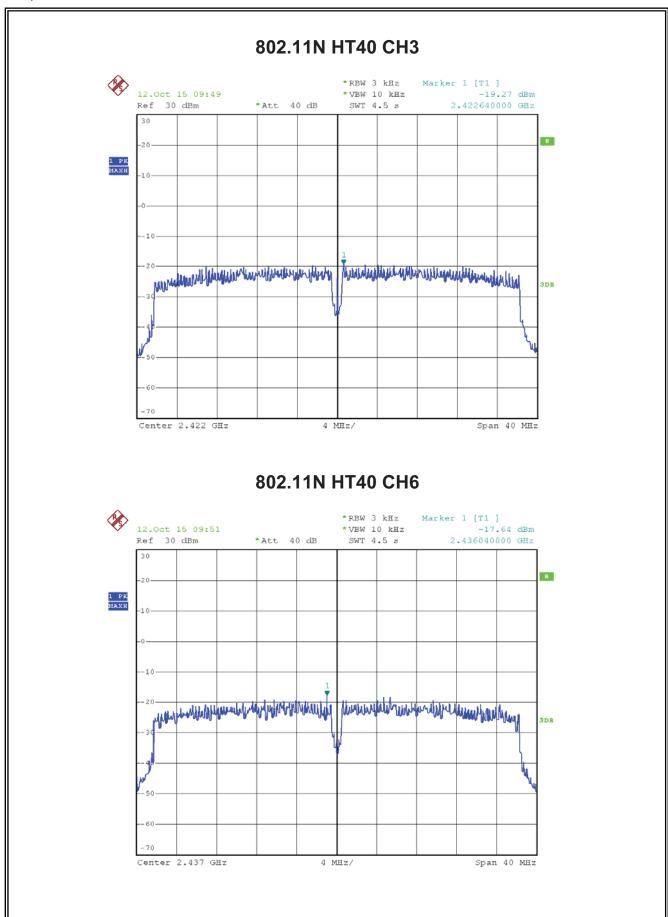




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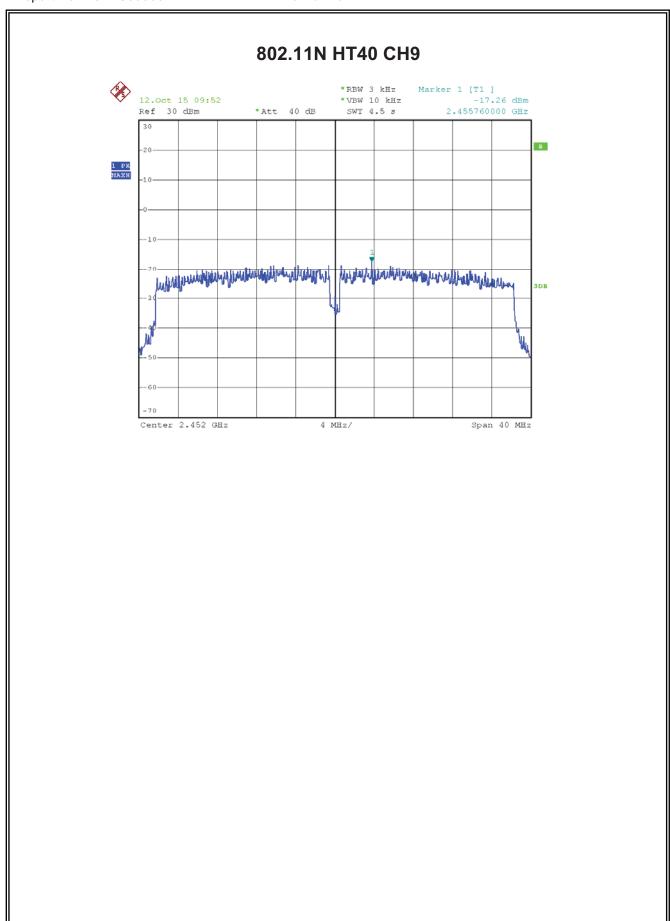


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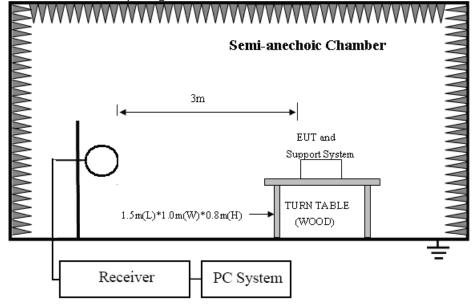
Emissions in restricted frequency bands

6.1 Test equipment

	 		t	· · · · · · · · · · · · · · · · · · ·	 	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESU8	100316	2015/12/26	1 Year
2	Spectrum analyzer	R&S	FSU	1166.1660.2 6	2015/12/26	1 Year
3	Loop antenna	TESEQ	HLA6120	20129	2015/12/26	1 Year
4	Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2015/12/26	1 Year
5	Double Ridged Horn Antenna	R&S	HF907	100276	2015/12/26	1 Year
6	Horn Antenna	EMCO	3116	00060095	2015/12/26	1 Year
7	Pre-amplifier	A.H.	PAM-1840VH	562	2015/12/26	1 Year
8	RF Cable	R&S	R01	10403	2015/12/26	1 Year
9	RF Cable	R&S	R02	10512	2015/12/26	1 Year

6.2 Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz

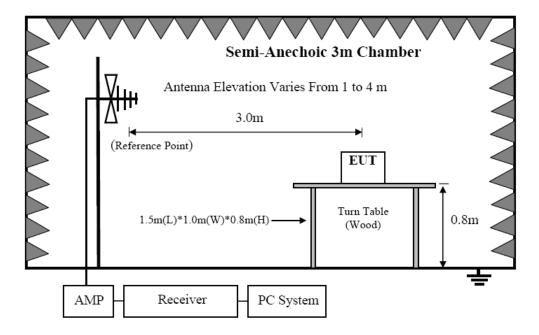


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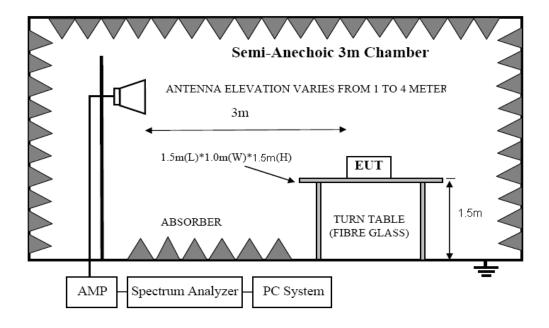
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In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



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Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

6.3 Limit

8.3.1 FCC 15.205 Restricted frequency band

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)

8.3.2 FCC 15.209 Limit.

FREQUENCY	DISTANCE	FIELD STRENG	STHS LIMIT
MHz	Meters	μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5

ATT Product Service Co., Ltd (CBTL Lab of UL/Demko)

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216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/ι 54.0 dB(μV)/m	, ,

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.

Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

Limit_{3m}(dBuV/m)= Limit_{30m}(dBuV/m) + 40Log(30m/3m)

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8.3.3 Limit for this EUT

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.

6.4 Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.4 and 7.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:
- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.



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Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 on Radiated Emission test.
- (6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure(according ANSI C63.10 clause 4.2.3.2.3 procedure for average measure). Peak detector is used for Peak and AV measurement both.



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6.5 Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9KHz to 25GHz were comply with 15.209 limit.

- Note1: According exploratory test no any obvious emission were detected from 9KHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.
- Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in 11b, Tx CH6 mode.
- Note3: For emissions above 1GHz. according exploratory explorer test, when change adapter no distinct influence on emissions level, so for emissions above 1GHz, the final test was only performed with EUT working in adapter (Ktec). If peak results comply with AV limit, AV Result is deemed to comply with AV limit.
- Note4: For below test data, when the limit tabular marked "/" means this frequency point is the fundamental emission and no need comply with this limit.



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Test Site : 3m Chamber

Test Date : 2015-10-18 **Tested By** : Smile Wang EUT : Wifi module **Model Number** : SKW71

Power Supply : DC 3.3V **Test Mode** : Tx mode 802.11B

Antenna/Distance: 3m : Temp:24.5'C,Humi:55% Condition

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	FCC 15.247	
(MHz)	Reading	Detector	Polar	Factor	(dB)	(dB)	(dBµV/m)	Limit	Margin
((dBµV)	(PK/QP/AV)	(H/V)	(dB)				(dBµV/m)	(dB)
		·		Low Chanr	nel (2412)				
2412	75.39	PK	Н	28	3.65	0	107.04	N/A	N/A
2412	71.78	AV	Н	28	3.65	0	103.43	N/A	N/A
2412	73.26	PK	V	28	3.65	0	104.91	N/A	N/A
2412	68.27	AV	V	28	3.65	0	99.92	N/A	N/A
2390	22.36	PK	Н	28.4	3.57	0	54.33	74	-19.67
2390	15.79	AV	Н	28.4	3.57	0	47.76	54	-6.24
2390	20.18	PK	V	28.4	3.57	0	52.15	74	-21.85
2390	12.71	AV	V	28.4	3.57	0	44.68	54	-9.32
4824	40.28	PK	Н	32.3	5.91	31.78	46.71	74	-27.29
4824	35.02	AV	Н	32.3	5.91	31.78	41.45	54	-12.55
4824	38.15	PK	V	32.3	5.91	31.78	44.58	74	-29.42
4824	32.17	AV	V	32.3	5.91	31.78	38.6	54	-15.4
7236	37.11	PK	Н	36.3	6.34	30.97	48.78	74	-25.22
7236	31.08	AV	Н	36.3	6.34	30.97	42.75	54	-11.25
7236	37.25	PK	V	36.3	6.34	30.97	48.92	74	-25.08
7236	32.05	AV	V	36.3	6.34	30.97	43.72	54	-10.28
9648	37.36	PK	Н	37.9	8.01	30.86	52.41	74	-21.59
9648	32.14	AV	Н	37.9	8.01	30.86	47.19	54	-6.81
9648	37.02	PK	V	37.9	8.01	30.86	52.07	74	-21.93
9648	32.23	AV	V	37.9	8.01	30.86	47.28	54	-6.72
526.18	48.33	QP	Н	12.8	2.63	27.2	36.56	46	-9.44
325.02	46.94	QP	V	12.8	2.63	27.2	35.17	46	-10.83
Middle Channel (2437)									
2437	74.25	PK	Н	28.7	3.74	0	106.69	N/A	N/A
2437	69.34	AV	Н	28.7	3.74	0	101.78	N/A	N/A
2437	72.88	PK	V	28.7	3.74	0	105.32	N/A	N/A
2437	67.36	AV	V	28.7	3.74	0	99.8	N/A	N/A
4874	41.05	PK	Н	32.6	6.15	31.78	48.02	74	-25.98



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4874	35.86	AV	Н	32.6	6.15	31.78	42.83	54	-11.17
4874	39.42	PK	V	32.6	6.15	31.78	46.39	74	-27.6°
4874	33.08	AV	V	32.6	6.15	31.78	40.05	54	-13.9
7311	37.36	PK	Н	36.7	6.22	30.97	49.31	74	-24.69
7311	31.86	AV	Н	36.7	6.22	30.97	43.81	54	-10.19
7311	37.58	PK	V	36.7	6.22	30.97	49.53	74	-24.4
7311	32.36	AV	V	36.7	6.22	30.97	44.31	54	-9.6
9748	37.17	PK	Н	38.2	8.11	30.86	52.62	74	-21.3
9748	31.22	AV	Н	38.2	8.11	30.86	46.67	54	-7.3
9748	38.39	PK	V	38.2	8.11	30.86	53.84	74	-20.1
9748	32.1	AV	V	38.2	8.11	30.86	47.55	54	-6.4
526.18	47.32	QP	Н	12.8	2.63	27.2	35.55	46	-10.4
325.05	45.93	QP	V	12.8	2.63	27.2	34.16	46	-11.8
				High Chanr	nel (2462)				
2462	73.25	PK	Н	29.1	3.81	0	106.16	N/A	N/
2462	68.34	AV	Н	29.1	3.81	0	101.25	N/A	N/
2462	71.17	PK	V	29.1	3.81	0	104.08	N/A	N/
2462	66.08	AV	V	29.1	3.81	0	98.99	N/A	N/
2483.5	26.35	PK	Н	28.7	3.62	0	58.67	74	-15.3
2483.5	16.31	AV	Н	28.7	3.62	0	48.63	54	-5.3
2483.5	24.31	PK	V	28.7	3.62	0	56.63	74	-17.3
2483.5	13.8	AV	V	28.7	3.62	0	46.12	54	-7.8
4924	42.36	PK	Н	32.8	6.17	31.78	49.55	74	-24.4
4924	37.16	AV	Н	32.8	6.17	31.78	44.35	54	-9.6
4924	41.11	PK	V	32.8	6.17	31.78	48.3	74	-25
4924	35.75	AV	V	32.8	6.17	31.78	42.94	54	-11.0
7386	37.25	PK	Н	36.8	6.26	30.97	49.34	74	-24.6
7386	31.16	AV	Н	36.8	6.26	30.97	43.25	54	-10.7
7386	37.58	PK	V	36.8	6.26	30.97	49.67	74	-24.3
7386	30.89	AV	V	36.8	6.26	30.97	42.98	54	-11.0
9848	37.39	PK	Н	38.4	8.17	30.86	53.1	74	-20
9848	31.71	AV	Н	38.4	8.17	30.86	47.42	54	-6.5
9848	38.02	PK	V	38.4	8.17	30.86	53.73	74	-20.2
9848	32.33	AV	V	38.4	8.17	30.86	48.04	54	-5.9
526.18	48.25	QP	Н	12.8	2.63	27.2	36.48	46	-9.5
325.02	46.12	QP	V	12.8	2.63	27.2	34.35	46	-11.6



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Test Site : 3m Chamber

Test Date : 2015-10-18 **Tested By** : Smile Wang EUT : Wifi module **Model Number** : SKW71

Power Supply : DC 3.3V **Test Mode** : Tx mode 802.11G

Antenna/Distance: 3m : Temp:24.5'C,Humi:55% Condition

Frequency	Receiver	Receiver		Rx Antenna		Amplifier Gain	Correct ed Amplitu de	FCC 15.247	
(MHz)	Reading	Detector	Polar	Factor	(dB)	(dB)	(dBµV/ m)	Limit	Margin
(1411 12)	(dBµV)	(PK/QP/AV)	(H/V)	(dB)			,	(dBµV/m)	(dB)
				Low Chanr	nel (2412)				
2412	67.35	PK	Н	28	3.65	0	99	N/A	N/A
2412	55.16	AV	Н	28	3.65	0	86.81	N/A	N/A
2412	65.95	PK	V	28	3.65	0	97.6	N/A	N/A
2412	53.18	AV	V	28	3.65	0	84.83	N/A	N/A
2390	25.36	PK	Н	28.4	3.57	0	57.33	74	-16.67
2390	14.79	AV	Н	28.4	3.57	0	46.76	54	-7.24
2390	24.69	PK	V	28.4	3.57	0	56.66	74	-17.34
2390	13.28	AV	V	28.4	3.57	0	45.25	54	-8.75
4824	38.16	PK	Н	32.3	5.91	31.78	44.59	74	-29.41
4824	26.34	AV	Н	32.3	5.91	31.78	32.77	54	-21.23
4824	37.56	PK	V	32.3	5.91	31.78	43.99	74	-30.01
4824	26.17	AV	V	32.3	5.91	31.78	32.6	54	-21.4
7236	37.44	PK	Н	36.3	6.34	30.97	49.11	74	-24.89
7236	26.28	AV	Н	36.3	6.34	30.97	37.95	54	-16.05
7236	37.89	PK	V	36.3	6.34	30.97	49.56	74	-24.44
7236	26.15	AV	V	36.3	6.34	30.97	37.82	54	-16.18
9648	37.63	PK	Н	37.9	8.01	30.86	52.68	74	-21.32
9648	25.41	AV	Н	37.9	8.01	30.86	40.46	54	-13.54
9648	37.03	PK	V	37.9	8.01	30.86	52.08	74	-21.92
9648	25.79	AV	V	37.9	8.01	30.86	40.84	54	-13.16
526.18	49.36	QP	Н	12.8	2.63	27.2	37.59	46	-8.41
325.02	45.98	QP	V	12.8	2.63	27.2	34.21	46	-11.79
				Middle Char	nnel (2437))			
2437	69.36	PK	Н	28.7	3.74	0	101.8	N/A	N/A
2437	56.71	AV	Н	28.7	3.74	0	89.15	N/A	N/A
2437	67.28	PK	V	28.7	3.74	0	99.72	N/A	N/A
2437	55.32	AV	V	28.7	3.74	0	87.76	N/A	N/A



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4874	38.69	PK	Н	32.6	6.15	31.78	45.66	74	-28.3
4874	25.14	AV	Н	32.6	6.15	31.78	32.11	54	-21.8
4874	38.13	PK	V	32.6	6.15	31.78	45.1	74	-28
4874	26.01	AV	V	32.6	6.15	31.78	32.98	54	-21.0
7311	37.32	PK	Н	36.7	6.22	30.97	49.27	74	-24.7
7311	24.08	AV	Н	36.7	6.22	30.97	36.03	54	-17.9
7311	37.85	PK	V	36.7	6.22	30.97	49.8	74	-24
7311	24.79	AV	V	36.7	6.22	30.97	36.74	54	-17.2
9748	36.98	PK	Н	38.2	8.11	30.86	52.43	74	-21.
9748	23.06	AV	Н	38.2	8.11	30.86	38.51	54	-15.4
9748	37.15	PK	V	38.2	8.11	30.86	52.6	74	-21
9748	24.82	AV	V	38.2	8.11	30.86	40.27	54	-13.7
526.18	48.26	QP	Н	12.8	2.63	27.2	36.49	46	-9.5
325.02	47.1	QP	V	12.8	2.63	27.2	35.33	46	-10.6
				High Chann	el (2462)				
2462	70.25	PK	Н	29.1	3.81	0	103.16	N/A	N.
2462	57.26	AV	Н	29.1	3.81	0	90.17	N/A	N.
2462	67.05	PK	V	29.1	3.81	0	99.96	N/A	N.
2462	53.96	AV	V	29.1	3.81	0	86.87	N/A	N.
2483.5	25.16	PK	Н	28.7	3.62	0	57.48	74	-16.
2483.5	12.36	AV	Н	28.7	3.62	0	44.68	54	-9.3
2483.5	24.98	PK	V	28.7	3.62	0	57.3	74	-16
2483.5	12.03	AV	V	28.7	3.62	0	44.35	54	-9.6
4924	38.69	PK	Н	32.8	6.17	31.78	45.88	74	-28.
4924	25.63	AV	Н	32.8	6.17	31.78	32.82	54	-21.1
4924	38.18	PK	V	32.8	6.17	31.78	45.37	74	-28.6
4924	25.04	AV	V	32.8	6.17	31.78	32.23	54	-21.7
7386	37.2	PK	Н	36.8	6.26	30.97	49.29	74	-24.7
7386	24.63	AV	Н	36.8	6.26	30.97	36.72	54	-17.2
7386	37.03	PK	V	36.8	6.26	30.97	49.12	74	-24.8
7386	24.01	AV	V	36.8	6.26	30.97	36.1	54	-17
9848	37.14	PK	Н	38.4	8.17	30.86	52.85	74	-21.1
9848	24.18	AV	Н	38.4	8.17	30.86	39.89	54	-14.1
9848	36.98	PK	V	38.4	8.17	30.86	52.69	74	-21.3
9848	24.03	AV	V	38.4	8.17	30.86	39.74	54	-14.2
526.18	47.69	QP	Н	12.8	2.63	27.2	35.92	46	-10.0
325.02	47.05	QP	V	12.8	2.63	27.2	35.28	46	-10.7



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Test Site : 3m Chamber

Test Date : 2015-10-18 **Tested By** : Smile Wang EUT : Wifi module **Model Number** : SKW71

Power Supply : DC 3.3V **Test Mode** : Tx mode 802.11N20

Antenna/Distance: 3m : Temp:24.5'C,Humi:55% Condition

Frequency	Receiver		Rx Ant	enna	Cable loss	Amplifier Gain	Corrected Amplitude	FCC 15.24	7
	Reading	Detector	Polar	Factor	(dB)	(dB)	(dBµV/m)	Limit	Margin
(MHz)	(dBµV)	(PK/QP/A V)	(H/V)	(dB)				(dBµV/m)	(dB)
				Low Chann	nel (2412)				
2412	66.82	PK	Н	28	3.65	0	98.47	N/A	N/A
2412	53.19	AV	Н	28	3.65	0	84.84	N/A	N/A
2412	65.79	PK	V	28	3.65	0	97.44	N/A	N/A
2412	53.16	AV	V	28	3.65	0	84.81	N/A	N/A
2390	23.36	PK	Н	28.4	3.57	0	55.33	74	-18.67
2390	11.18	AV	Н	28.4	3.57	0	43.15	54	-10.85
2390	21.85	PK	V	28.4	3.57	0	53.82	74	-20.18
2390	10.58	AV	V	28.4	3.57	0	42.55	54	-11.45
4824	37.85	PK	Н	32.3	5.91	31.78	44.28	74	-29.72
4824	25.19	AV	Н	32.3	5.91	31.78	31.62	54	-22.38
4824	37.25	PK	V	32.3	5.91	31.78	43.68	74	-30.32
4824	24.86	AV	V	32.3	5.91	31.78	31.29	54	-22.71
7236	37.86	PK	Н	36.3	6.34	30.97	49.53	74	-24.47
7236	24.15	AV	Н	36.3	6.34	30.97	35.82	54	-18.18
7236	37.26	PK	V	36.3	6.34	30.97	48.93	74	-25.07
7236	24.17	AV	V	36.3	6.34	30.97	35.84	54	-18.16
9648	37.33	PK	Н	37.9	8.01	30.86	52.38	74	-21.62
9648	23.86	AV	Н	37.9	8.01	30.86	38.91	54	-15.09
9648	37.17	PK	V	37.9	8.01	30.86	52.22	74	-21.78
9648	24.89	AV	V	37.9	8.01	30.86	39.94	54	-14.06
526.2	47.69	QP	Н	12.8	2.63	27.2	35.92	46	-10.08
325.02	45.15	QP	V	12.8	2.63	27.2	33.38	46	-12.62
				Middle Char	nel (2437)				
2437	67.36	PK	Н	28.7	3.74	0	99.8	N/A	N/A
2437	54.72	AV	Н	28.7	3.74	0	87.16	N/A	N/A
2437	65.16	PK	V	28.7	3.74	0	97.6	N/A	N/A
2437	52.89	AV	٧	28.7	3.74	0	85.33	N/A	N/A
4874	38.02	PK	Н	32.6	6.15	31.78	44.99	74	-29.01



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4874	24.25	AV	Н	32.6	6.15	31.78	31.22	54	-22.78
4874	37.69	PK	V	32.6	6.15	31.78	44.66	74	-29.34
4874	24.38	AV	V	32.6	6.15	31.78	31.35	54	-22.65
7311	37.17	PK	Н	36.7	6.22	30.97	49.12	74	-24.88
7311	23.9	AV	Н	36.7	6.22	30.97	35.85	54	-18.15
7311	37.36	PK	V	36.7	6.22	30.97	49.31	74	-24.69
7311	24.03	AV	V	36.7	6.22	30.97	35.98	54	-18.02
9748	37.17	PK	Н	38.2	8.11	30.86	52.62	74	-21.38
9748	23.96	AV	Н	38.2	8.11	30.86	39.41	54	-14.59
9748	37.58	PK	V	38.2	8.11	30.86	53.03	74	-20.97
9748	24.15	AV	V	38.2	8.11	30.86	39.6	54	-14.4
526.18	48.71	QP	Н	12.8	2.63	27.2	36.94	46	-9.06
325.02	46.85	QP	V	12.8	2.63	27.2	35.08	46	-10.92
				High Chann	el (2462)				
2462	66.36	PK	Н	29.1	3.81	0	99.27	N/A	N/A
2462	55.17	AV	Н	29.1	3.81	0	88.08	N/A	N/A
2462	65.25	PK	V	29.1	3.81	0	98.16	N/A	N/A
2462	53.69	AV	V	29.1	3.81	0	86.6	N/A	N/A
2483.5	26.71	PK	Н	28.7	3.62	0	59.03	74	-14.97
2483.5	12.18	AV	Н	28.7	3.62	0	44.5	54	-9.5
2483.5	25.17	PK	V	28.7	3.62	0	57.49	74	-16.51
2483.5	10.85	AV	V	28.7	3.62	0	43.17	54	-10.83
4924	37.82	PK	Н	32.8	6.17	31.78	45.01	74	-28.99
4924	24.36	AV	Н	32.8	6.17	31.78	31.55	54	-22.45
4924	37.23	PK	V	32.8	6.17	31.78	44.42	74	-29.58
4924	24.17	AV	V	32.8	6.17	31.78	31.36	54	-22.64
7386	37.58	PK	Н	36.8	6.26	30.97	49.67	74	-24.33
7386	23.99	AV	Н	36.8	6.26	30.97	36.08	54	-17.92
7386	37.65	PK	V	36.8	6.26	30.97	49.74	74	-24.26
7386	24.55	AV	V	36.8	6.26	30.97	36.64	54	-17.36
9848	37.36	PK	Н	38.4	8.17	30.86	53.07	74	-20.93
9848	24.17	AV	Н	38.4	8.17	30.86	39.88	54	-14.12
9848	37.85	PK	V	38.4	8.17	30.86	53.56	74	-20.44
9848	24.33	AV	V	38.4	8.17	30.86	40.04	54	-13.96
				40.0	0.00	07.0	20.00	40	0.00
526.2	48.69	QP	Н	12.8	2.63	27.2	36.92	46	-9.08



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Test Site : 3m Chamber

Test Date : 2015-10-18 **Tested By** : Smile Wang EUT : Wifi module **Model Number** : SKW71

Power Supply : DC 3.3V **Test Mode** : Tx mode 802.11N40

Antenna/Distance: 3m : Temp:24.5'C,Humi:55% Condition

Frequency	Receiver		Rx Ant	enna	Cable loss	Amplifier Gain	Corrected Amplitude	FCC 15.2	47
	Reading	Detector	Polar	Factor	(dB)	(dB)	(dBµV/m)	Limit	Margin
(MHz)	(dBµV)	(PK/QP/A V)	(H/V)	(dB)				(dBµV/ m)	(dB)
				Low Chann	el (2422)				
2422	63.58	PK	Н	28	3.65	0	95.23	N/A	N/A
2422	50.85	AV	Н	28	3.65	0	82.5	N/A	N/A
2422	62.36	PK	V	28	3.65	0	94.01	N/A	N/A
2422	49.35	AV	V	28	3.65	0	81	N/A	N/A
2390	24.05	PK	Н	28.4	3.57	0	56.02	74	-17.98
2390	11.75	AV	Н	28.4	3.57	0	43.72	54	-10.28
2390	24.36	PK	V	28.4	3.57	0	56.33	74	-17.67
2390	11.08	AV	V	28.4	3.57	0	43.05	54	-10.95
4844	37.58	PK	Н	32.3	5.91	31.78	44.01	74	-29.99
4844	24.63	AV	Н	32.3	5.91	31.78	31.06	54	-22.94
4844	37.89	PK	V	32.3	5.91	31.78	44.32	74	-29.68
4844	24.35	AV	V	32.3	5.91	31.78	30.78	54	-23.22
7266	37.63	PK	Н	36.3	6.34	30.97	49.3	74	-24.7
7266	24.18	AV	Н	36.3	6.34	30.97	35.85	54	-18.15
7266	36.89	PK	V	36.3	6.34	30.97	48.56	74	-25.44
7266	24.16	AV	V	36.3	6.34	30.97	35.83	54	-18.17
9688	37.16	PK	Н	37.9	8.01	30.86	52.21	74	-21.79
9688	23.63	AV	Н	37.9	8.01	30.86	38.68	54	-15.32
9688	37.66	PK	V	37.9	8.01	30.86	52.71	74	-21.29
9688	24.05	AV	V	37.9	8.01	30.86	39.1	54	-14.9
526.2	47.52	QP	Н	12.8	2.63	27.2	35.75	46	-10.25
325.02	46.78	QP	V	12.8	2.63	27.2	35.01	46	-10.99
				Middle Chan	nel (2437)				
2437	64.39	PK	Н	28.7	3.74	0	96.83	N/A	N/A
2437	51.71	AV	Н	28.7	3.74	0	84.15	N/A	N/A
2437	62.35	PK	٧	28.7	3.74	0	94.79	N/A	N/A
2437	49.71	AV	V	28.7	3.74	0	82.15	N/A	N/A
4874	37.58	PK	Н	32.6	6.15	31.78	44.55	74	-29.45



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							_				
4874	24.18	AV	Н	32.6	6.15	31.78	31.15	54	-22.85		
4874	37.41	PK	V	32.6	6.15	31.78	44.38	74	-29.62		
4874	23.99	AV	V	32.6	6.15	31.78	30.96	54	-23.04		
7311	37.36	PK	Н	36.7	6.22	30.97	49.31	74	-24.69		
7311	24.25	AV	Н	36.7	6.22	30.97	36.2	54	-17.8		
7311	37.05	PK	V	36.7	6.22	30.97	49	74	-25		
7311	24.31	AV	V	36.7	6.22	30.97	36.26	54	-17.74		
9748	37.65	PK	Н	38.2	8.11	30.86	53.1	74	-20.9		
9748	24.55	AV	Н	38.2	8.11	30.86	40	54	-14		
9748	37.25	PK	V	38.2	8.11	30.86	52.7	74	-21.3		
9748	24.36	AV	V	38.2	8.11	30.86	39.81	54	-14.19		
526.16	49.63	QP	Н	12.8	2.63	27.2	37.86	46	-8.14		
325.06	48.58	QP	V	12.8	2.63	27.2	36.81	46	-9.19		
High Channel (2452)											
2452	64.28	PK	Н	29.1	3.81	0	97.19	N/A	N/A		
2452	51.85	AV	Н	29.1	3.81	0	84.76	N/A	N/A		
2452	63.17	PK	V	29.1	3.81	0	96.08	N/A	N/A		
2452	50.82	AV	V	29.1	3.81	0	83.73	N/A	N/A		
2483.5	25.36	PK	Н	28.7	3.62	0	57.68	74	-16.32		
2483.5	14.86	AV	Н	28.7	3.62	0	47.18	54	-6.82		
2483.5	24.36	PK	V	28.7	3.62	0	56.68	74	-17.32		
2483.5	12.18	AV	V	28.7	3.62	0	44.5	54	-9.5		
4904	37.56	PK	Н	32.8	6.17	31.78	44.75	74	-29.25		
4904	24.25	AV	Н	32.8	6.17	31.78	31.44	54	-22.56		
4904	37.55	PK	V	32.8	6.17	31.78	44.74	74	-29.26		
4904	24.02	AV	V	32.8	6.17	31.78	31.21	54	-22.79		
7356	37.36	PK	Н	36.8	6.26	30.97	49.45	74	-24.55		
7356	23.98	AV	Н	36.8	6.26	30.97	36.07	54	-17.93		
7356	37.89	PK	V	36.8	6.26	30.97	49.98	74	-24.02		
7356	24.18	AV	V	36.8	6.26	30.97	36.27	54	-17.73		
9808	37.39	PK	Н	38.4	8.17	30.86	53.1	74	-20.9		
9808	24.36	AV	Н	38.4	8.17	30.86	40.07	54	-13.93		
9808	37.25	PK	V	38.4	8.17	30.86	52.96	74	-21.04		
9808	25.05	AV	V	38.4	8.17	30.86	40.76	54	-13.24		
526.2	48.35	QP	Н	12.8	2.63	27.2	36.58	46	-9.42		
325.08	46.2	QP	V	12.8	2.63	27.2	34.43	46	-11.57		



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Band Edge Compliance

7.1 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESU8	100316	2015/12/26	1 Year
2	Spectrum analyzer	R&S	FSU	1166.1660.2 6	2015/12/26	1 Year
3	Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2015/12/26	1 Year
4	Double Ridged Horn Antenna	R&S	HF907	100276	2015/12/26	1 Year
5	Pre-amplifier	A.H.	PAM0-0118	360	2015/12/26	1 Year
6	RF Cable	R&S	R01	10403	2015/12/26	1 Year
7	RF Cable	R&S	R02	10512	2015/12/26	1 Year

7.2 Block diagram of test setup



7.3 Limit

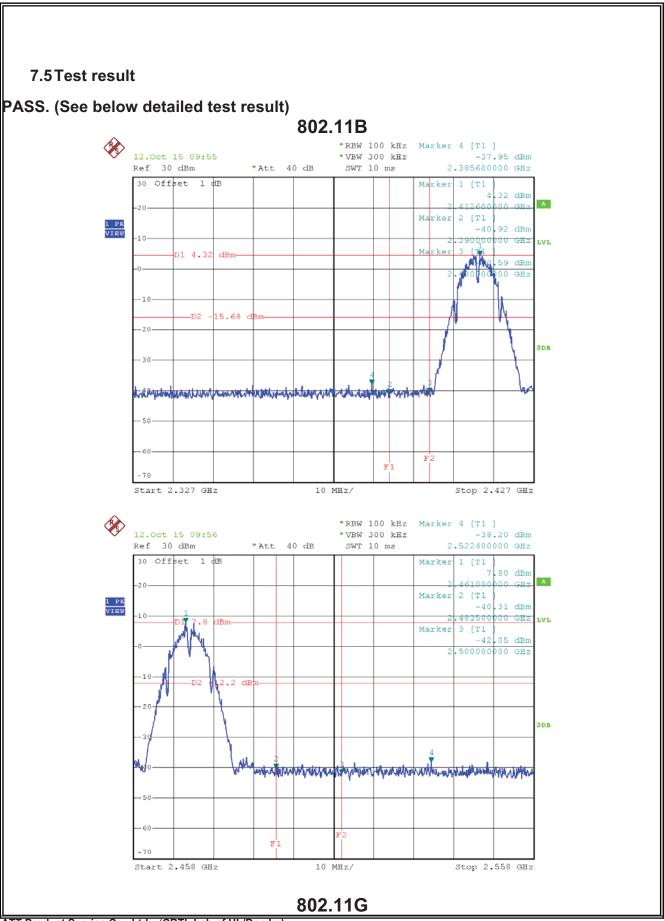
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.



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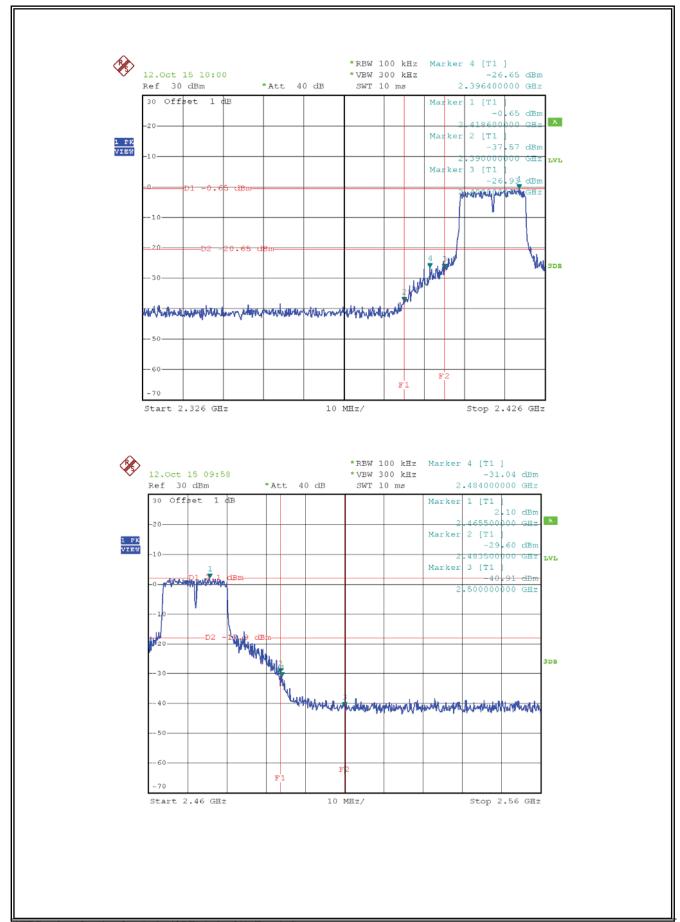
7.4Test Procedure
Same with clause 8.4 except change investigated frequency range from 2100MHz to 2450MHz and
2450MHz to 2500MHz.
Remark: All restriction band have been tested, and only the worse case is shown in report.

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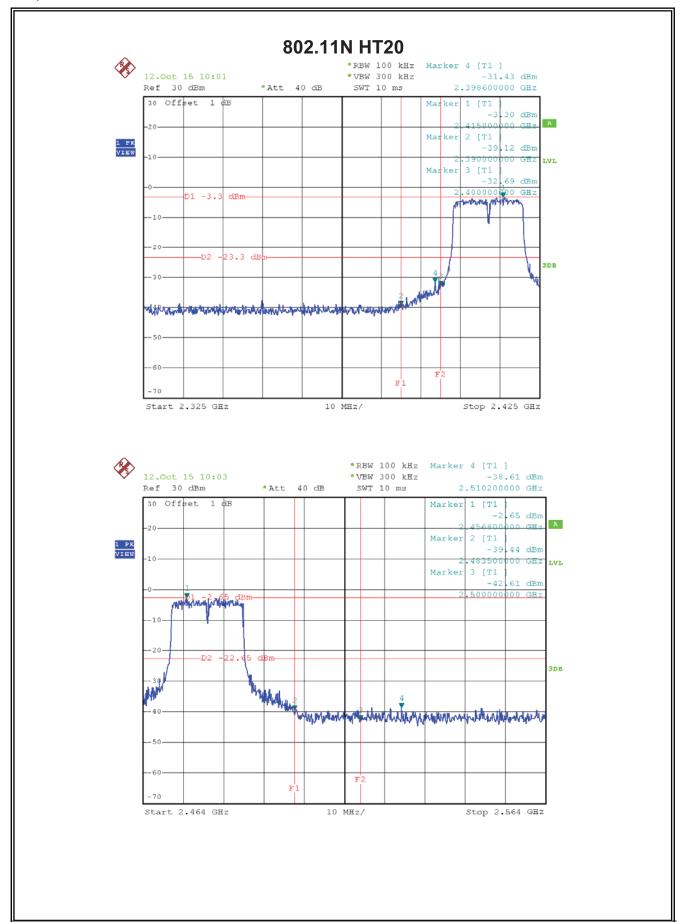


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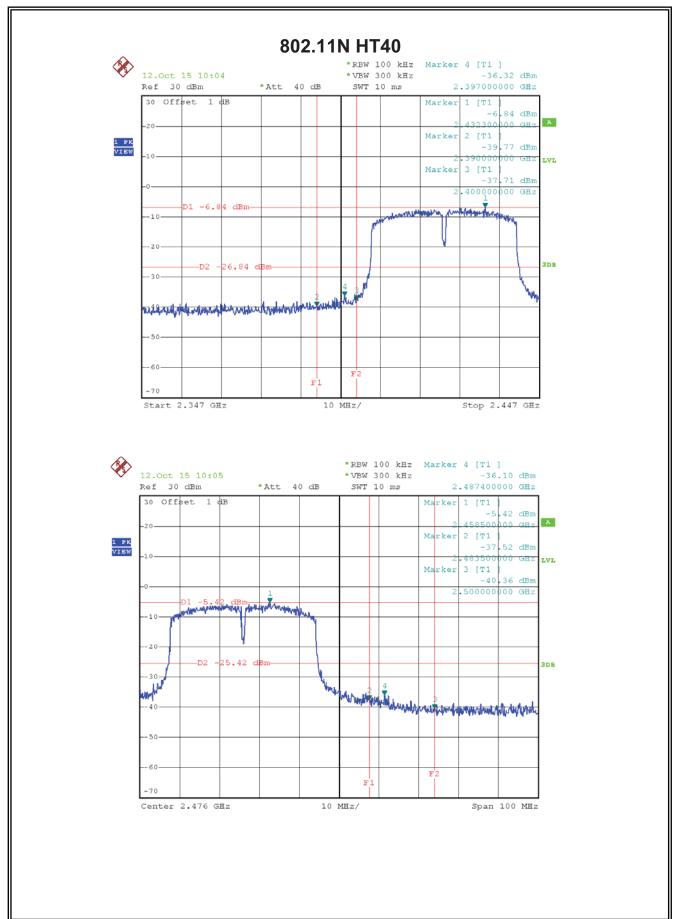


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S CONDUCTED SPURIOUS EMISSIONS

8.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	Cal. Interval
1	Spectrum analyzer	Agilent	E4407B	US40240708	2015/12/26	1Y
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2015/12/26	1 Y
3	RF Cable	Micable	C10-01-01-1	100309	2015/12/26	1Y

8.2 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

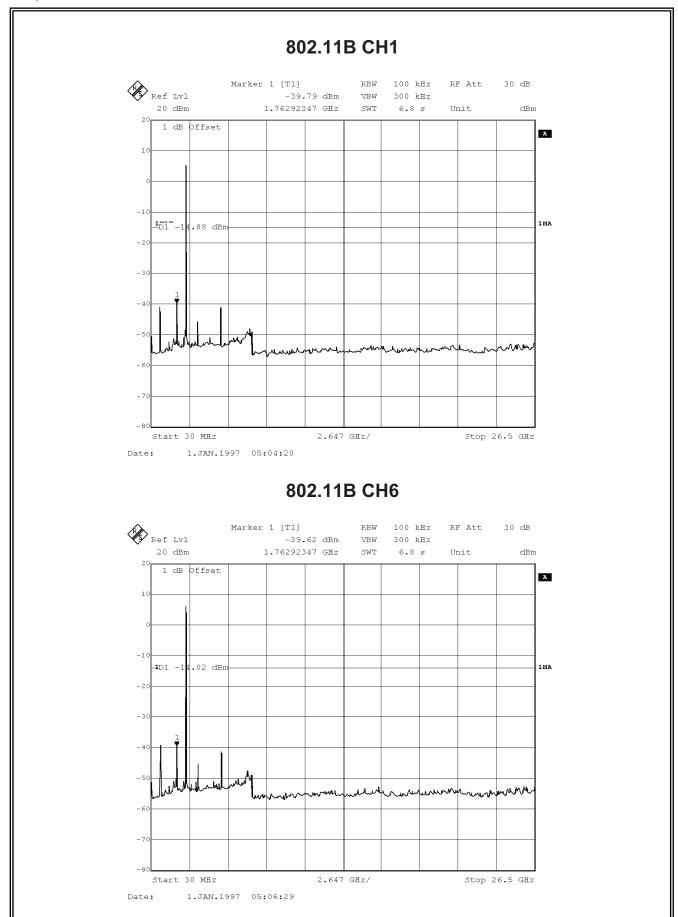
8.3 Test Procedure

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.

8.4 Test result

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

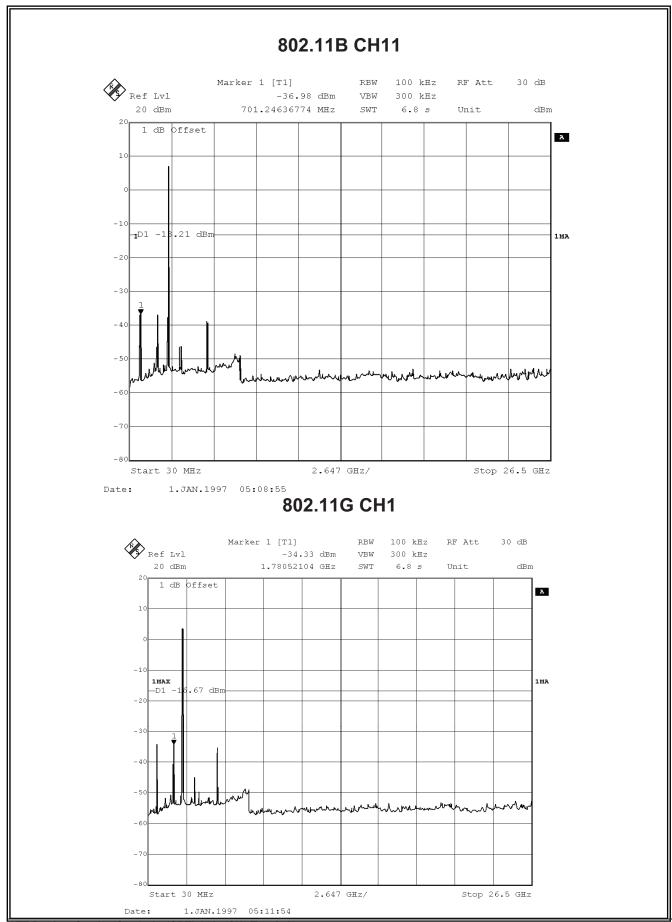
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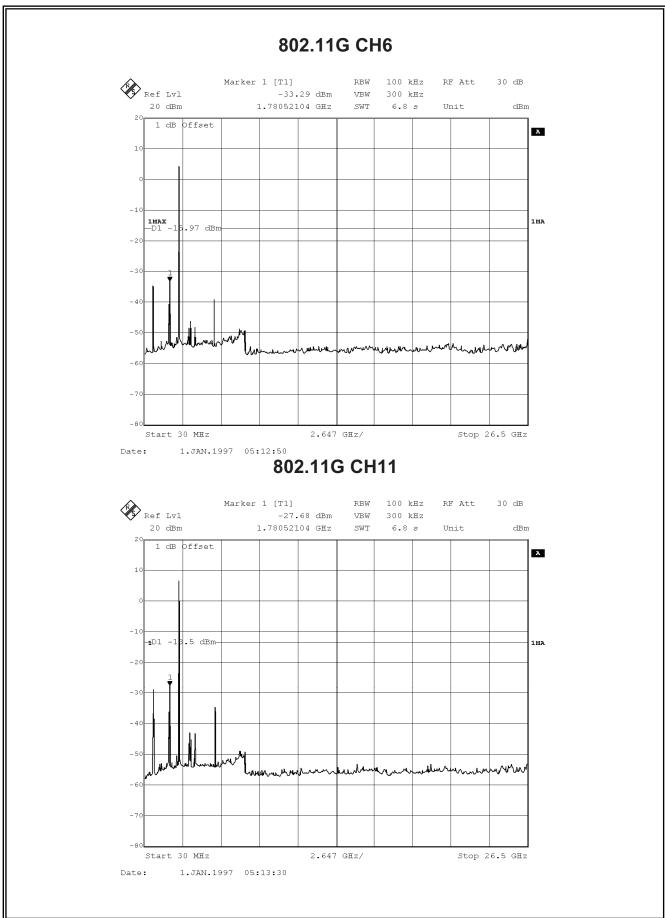
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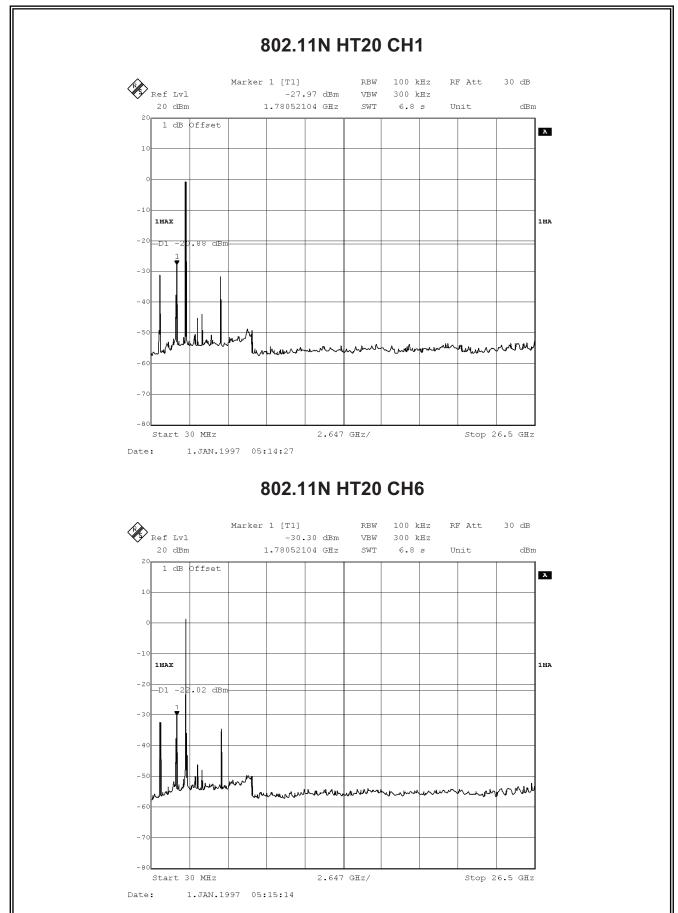


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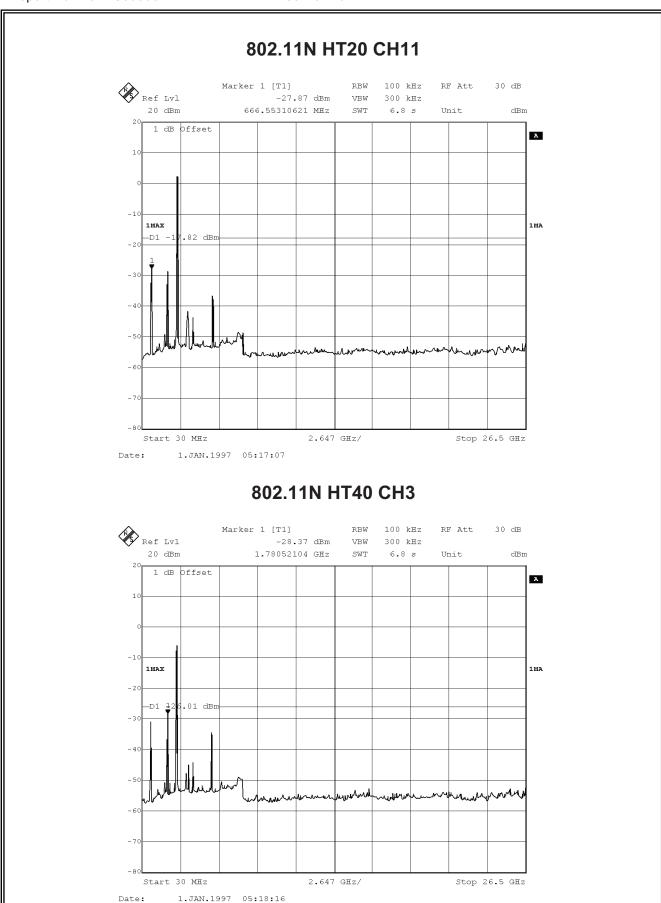
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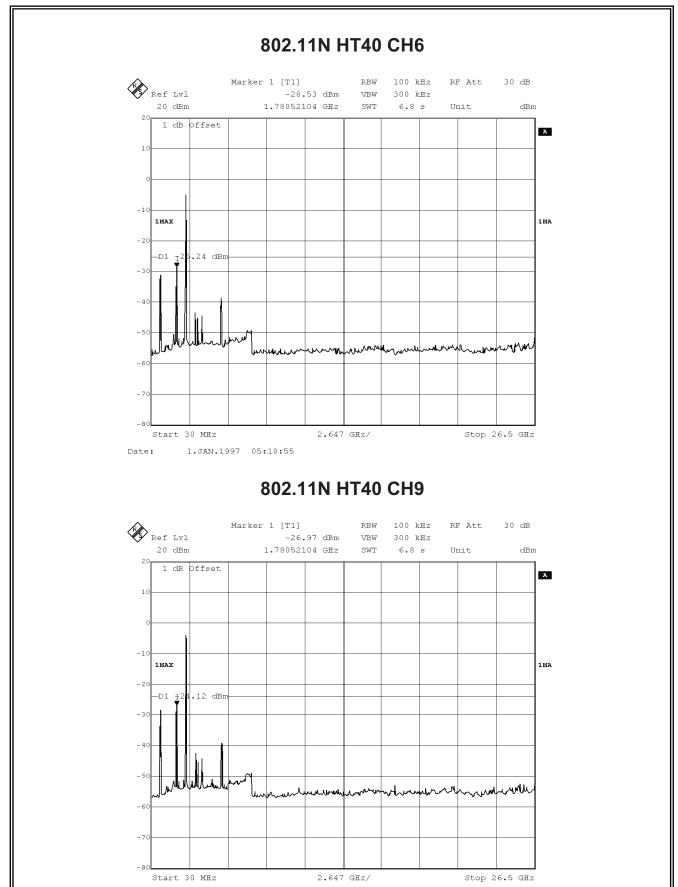
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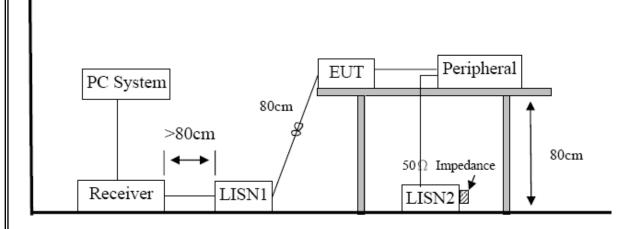
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Power Line Conducted Emission

9.1 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	R&S	ESU8	100316	2015/12/26	1 Year
2	LISN 1	R&S	ENV216	101109	2015/12/26	1 Year
3	LISN 2	R&S	ESH2-Z5	100309	2015/12/26	1 Year
4	Pulse Limiter	R&S	ESH3-Z2	101242	2015/12/26	1 Year
5	CABLE	R&S	EA033	JHW1401206 8	2015/12/26	1 Year

9.2 Block diagram of test setup



9.3 Power Line Conducted Emission Limits(Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Note 1: * Decreasing linearly with logarithm of frequency.

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



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9.4 Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

9.5 Test Result

PASS. (See below detailed test result)

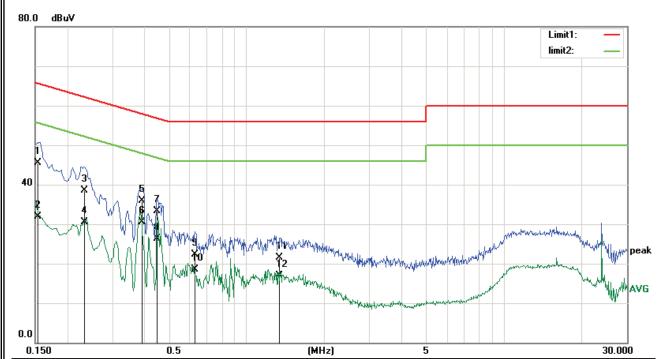
Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means peak detection; "----" mans average detection



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EUT:	WIFI module	Model No.:	SKW71
Temperature:	24	Relative Humidity:	55%
Probe:	L1	Test Power:	AC 120V/60Hz
Standard:	(CE)FCC PART 15 class B_QP	Test Result:	Pass
Test Mode:	TX	Test By:	Smile Wang

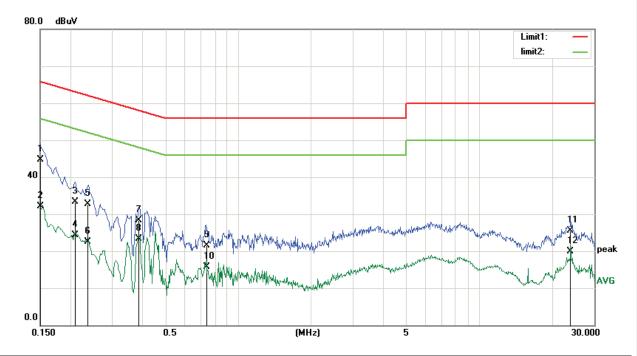


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1539	34.10	11.44	45.54	65.78	-20.24	QP
2	0.1539	20.54	11.44	31.98	55.78	-23.80	AVG
3	0.2323	27.55	10.90	38.45	62.36	-23.91	QP
4	0.2323	19.62	10.90	30.52	52.36	-21.84	AVG
5	0.3871	25.50	10.33	35.83	58.12	-22.29	QP
6	0.3871	20.20	10.33	30.53	48.12	-17.59	AVG
7	0.4477	23.04	10.25	33.29	56.92	-23.63	QP
8	0.4477	16.06	10.25	26.31	46.92	-20.61	AVG
9	0.6300	12.09	10.14	22.23	56.00	-33.77	QP
10	0.6300	8.41	10.14	18.55	46.00	-27.45	AVG
11	1.3381	11.42	10.10	21.52	56.00	-34.48	QP
12	1.3381	6.81	10.10	16.91	46.00	-29.09	AVG



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EUT:	WIFI module	Model No.:	SKW71
Temperature:	24	Relative Humidity:	55%
Probe:	N	Test Power:	AC 120V/60Hz
Standard:	(CE)FCC PART 15 class B_QP	Test Result:	Pass
Test Mode:	TX	Test By:	Smile Wang



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1503	33.16	11.47	44.63	65.98	-21.35	QP
2	0.1503	20.59	11.47	32.06	55.98	-23.92	AVG
3	0.2088	22.21	11.07	33.28	63.25	-29.97	QP
4	0.2088	13.14	11.07	24.21	53.25	-29.04	AVG
5	0.2359	21.91	10.88	32.79	62.24	-29.45	QP
6	0.2359	11.70	10.88	22.58	52.24	-29.66	AVG
7	0.3844	18.07	10.33	28.40	58.18	-29.78	QP
8	0.3844	12.98	10.33	23.31	48.18	-24.87	AVG
9	0.7436	11.32	10.11	21.43	56.00	-34.57	QP
10	0.7436	5.61	10.11	15.72	46.00	-30.28	AVG
11	23.9070	15.37	10.19	25.56	60.00	-34.44	QP
12	23.9070	9.64	10.19	19.83	50.00	-30.17	AVG



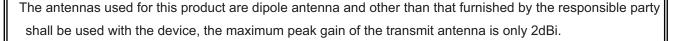
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10 Antenna Requirements

10.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

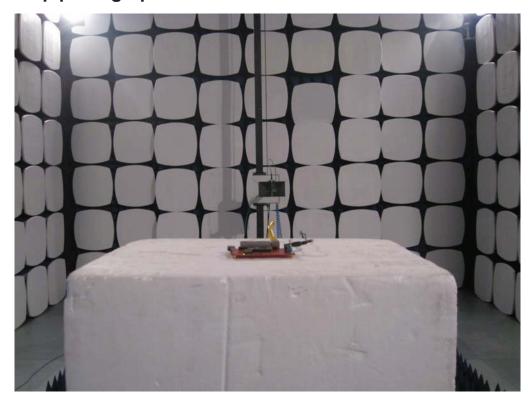
10.2 Result

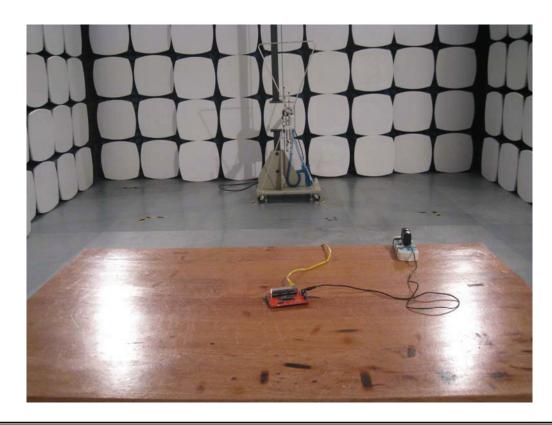




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11 Test setup photograph







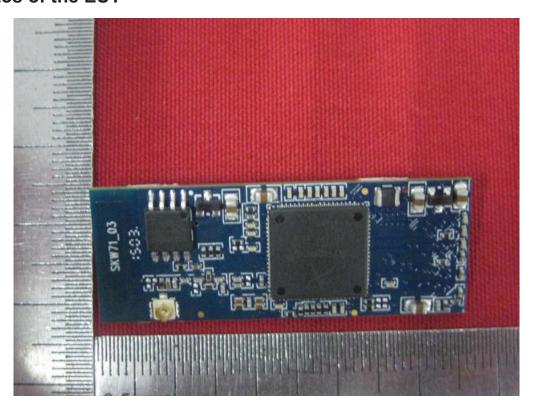
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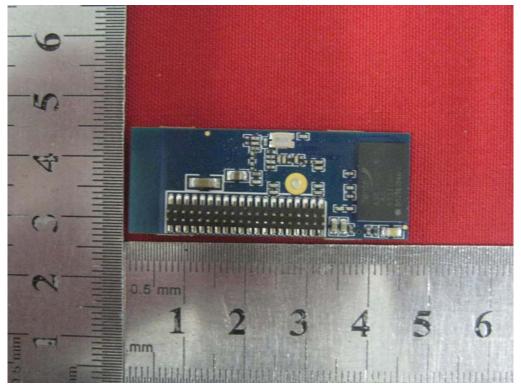




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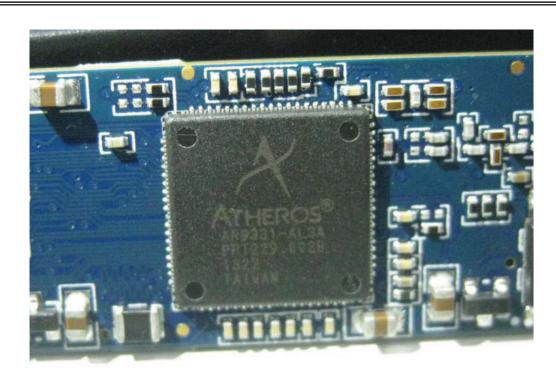
12 Photos of the EUT

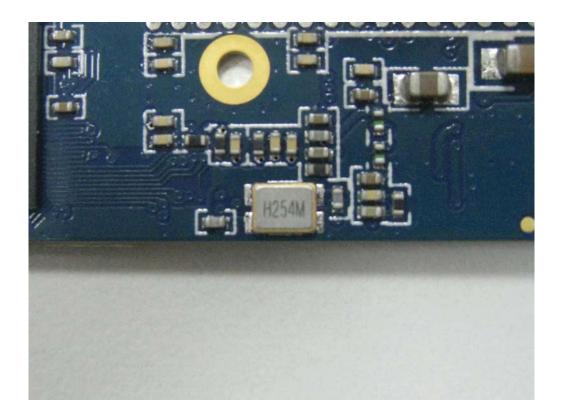






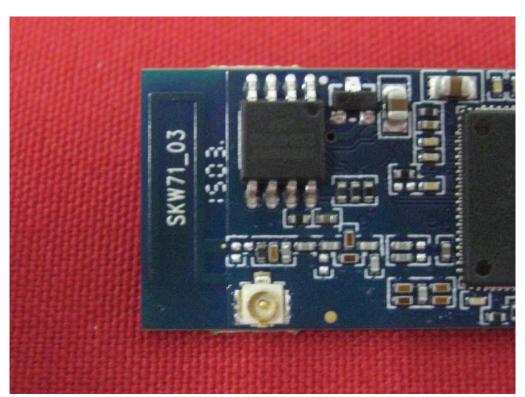
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END OF REPORT