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## **FCC Test Report**

Report No.: AGC01321140103FE04

FCC ID : 2ABGBW590

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Mobile Phone

**BRAND NAME** : Magicon

**MODEL NAME** : W0590, W590

**CLIENT** : Conplex International Limited

**DATE OF ISSUE** : Jan. 20, 2014

**STANDARD(S)** : FCC Part 15 Rules

**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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### **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 20, 2014	Valid	Original Report

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#### 1. VERIFICATION OF CONFORMITY

Applicant	Conplex International Limited
Address	Unit 902-904, 9 <sup>th</sup> Floor, Tower B, Hung Hom Commercial Centre, 37, Ma Tau Wai Road, Hung Hum, Kowloon, HongKong
Manufacturer	Conplex International Limited
Address	Unit 902-904, 9 <sup>th</sup> Floor, Tower B, Hung Hom Commercial Centre, 37, Ma Tau Wai Road, Hung Hum, Kowloon, HongKong
Product Designation	Mobile Phone
Brand Name	Magicon
Test Model	W0590
Series Model	W590
Difference description	All the same except for model name.
Date of test	Jan. 13, 2014 to Jan.18, 2014
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BGN/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Wall Huang Jan. 20, 2014

Checked By

Kidd Yang Jan. 20, 2014

Authorized By

Solger Zhang Jan. 20, 2014

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Mobile Phone". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

, , , , , , , , , , , , , , , , , , , ,	To the december definition and			
Operation Frequency	2.412 GHz~2.462GHz			
Outrout Bourse	IEEE 802.11b:18.28 dBm; IEEE 802.11g:13.62dBm;			
Output Power	IEEE 802.11n(20):14.38dBm; IEEE 802.11n(40):11.37dBm			
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)			
Number of channels	11			
Hardware Version	E2006_V2.1			
Software Version	N/A			
Antenna Designation	Integrated Antenna			
Antenna Gain	1.2 dBi			
Power Supply	DC3.7V by Built-in Li-ion Battery			

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11 For 40MHZ bandwidth system use Channel 3 to Channel 9

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#### 2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps) 800nsGl	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

#### 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ABGBW590** filing to comply with the FCC Part 15 requirements.

#### 2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules.

#### 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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#### 3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

#### Note:

Transmit by 802.11b with Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date rate

(13.5/27/40.5/54/81/108/121.5/135)

#### Note:

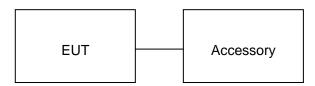
- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency individually.
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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#### 5. SYSTEM TEST CONFIGURATION

#### **5.1. CONFIGURATION OF EUT SYSTEM**

Configure:



#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment Model No. ID or Specification		Remark	
1	Mobile Phone	W0590,W590	FCC ID: 2ABGBW590	EUT
2	Adapter	W0590,W590	DC5.0V / 1000mA	Accessory
3	Battery	W0590,W590	DC3.7V/ 2300 mAh	Accessory
4	Earphone	W0590	N/A	Accessory
5	USB Cable	W0590	N/A	Accessory

Note: All the accessories have been used during the test in conduction emission test.

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

Note: The EUT received power from DC3.7V lithium battery.

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#### **6. TEST FACILITY**

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China		
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.		

#### **ALL TEST EQUIPMENT LIST**

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/17/2013	07/16/2014
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/17/2013	07/16/2014
Amplifier	EM	EM30180	0607030	07/17/2013	07/16/2014
Horn Antenna	EM	EM-AH-10180	67	04/21/2013	04/20/2014
Horn Antenna	A.H. Systems Inc.	SAS-574		07/17/2013	07/16/2014
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/17/2013	07/16/2014
Biological Antenna	A.H. Systems Inc.	SAS-521-4	26	06/07/2013	06/06/2014
Loop Antenna	A.H.	SAS-526B	264	07/14/2013	07/13/2014
LISN	R&S	ESH3-Z5	8389791009	07/17/2013	07/16/2014

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#### 7. PEAK OUTPUT POWER

#### 7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 4. Use the following spectrum analyzer settings:

Set the RBW = 1 MHz

Set the VBW ≥ 3 RBW

Set the span ≥ 1.5 x DTS bandwidth

Detector = peak

Sweep time = auto couple

Trace mode = max hold

- 5. Allow the trace to stabilize. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges.
- 6. Record the result form the Spectrum Analyzer.

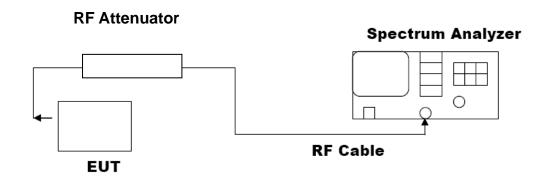
#### For average power test:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to power probe through an RF attenuator.
- 3. Connect the power probe to the PC.
- 4. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 5. Record the maximum power from the software.
- 6. The maximum peak power shall be less 1 Watt (30dBm).

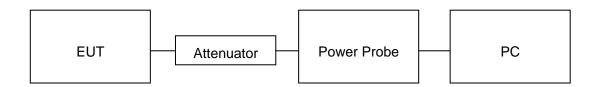
Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

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# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



#### **AVERAGE POWER SETUP**



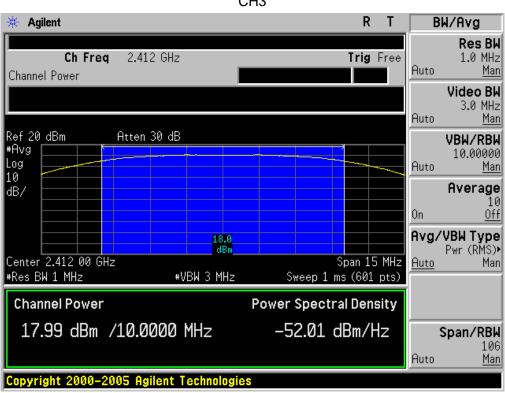
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#### 7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	PEAK POWER
TEST MODE	802.11b with data rate 1

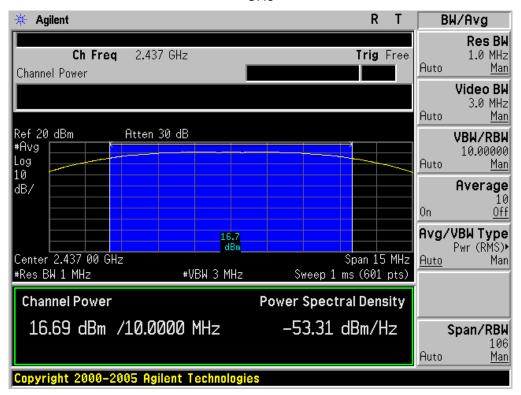
LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	16.01	17.99	30	Pass
2.437	14.71	16.69	30	Pass
2.462	16.3	18.28	30	Pass

CH3

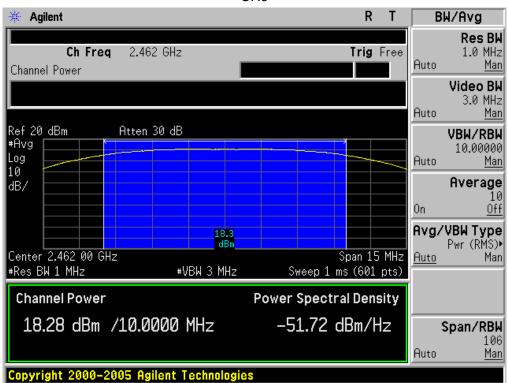


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CH<sub>6</sub>



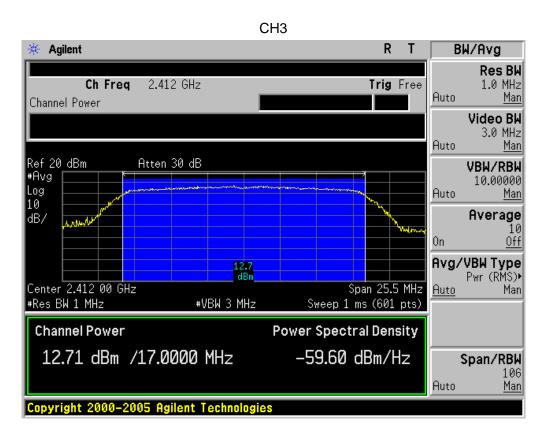
#### CH9



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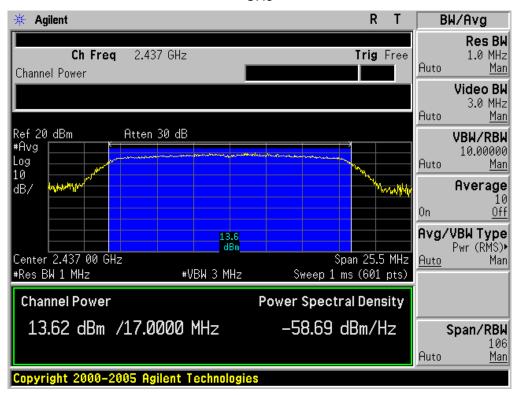
TEST ITEM	PEAK POWER
TEST MODE	802.11g with data rate 6

	LIMITS AND MEASUREMENT RESULT			
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.73	12.71	30	Pass
2.437	11.64	13.62	30	Pass
2.462	11.13	13.11	30	Pass

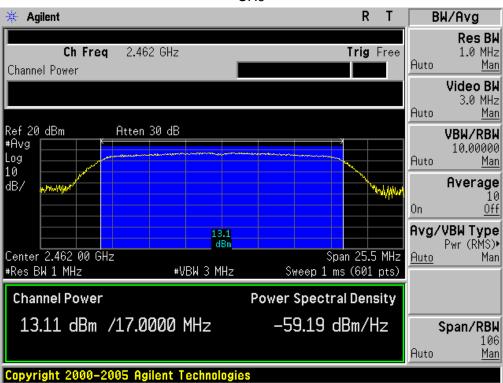


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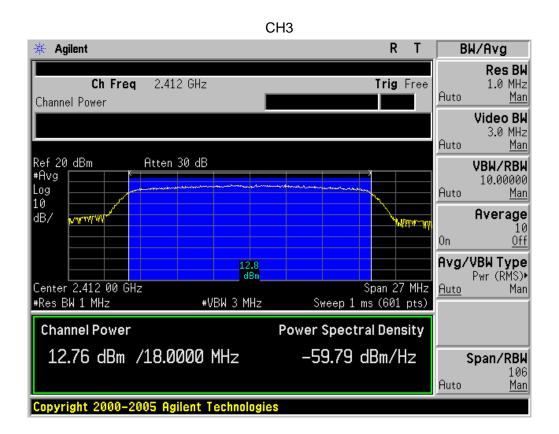
#### CH9



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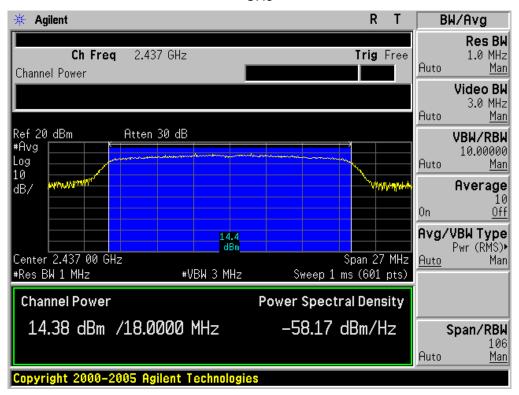
TEST ITEM	PEAK POWER
TEST MODE	802.11n 20 with data rate 6.5

	LIMITS AND MEASUREMENT RESULT			
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.78	12.76	30	Pass
2.437	12.4	14.38	30	Pass
2.462	9.18	11.16	30	Pass

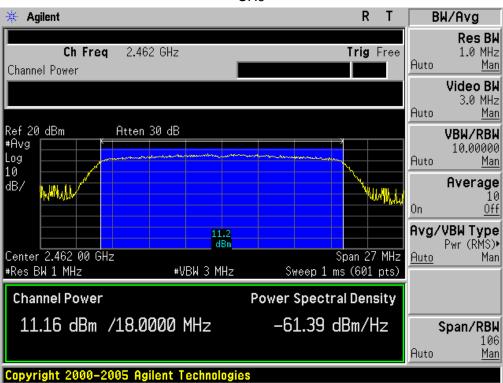


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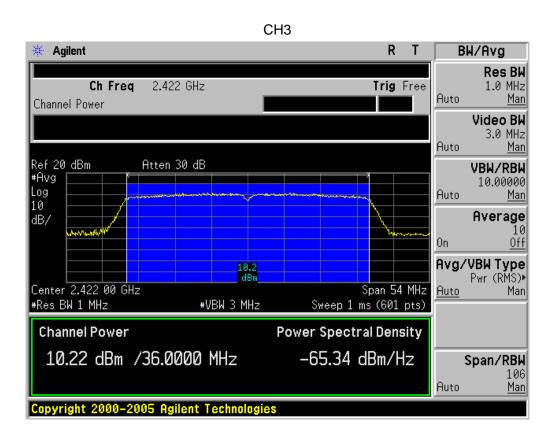
#### CH9



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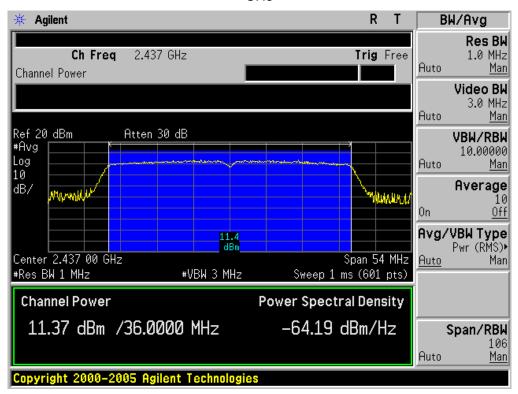
TEST ITEM	PEAK POWER
TEST MODE	802.11n 40 with data rate 13.5

	LIMITS AND MEASUREMENT RESULT			
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	8.24	10.22	30	Pass
2.437	9.39	11.37	30	Pass
2.452	8.14	10.12	30	Pass

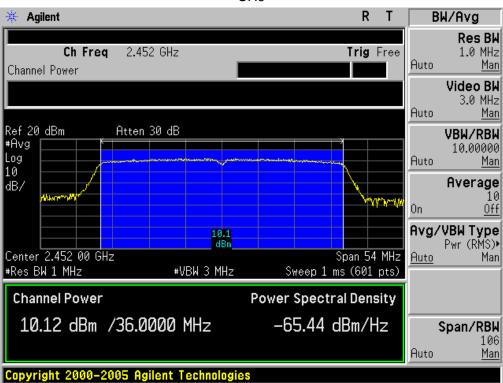


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CH<sub>6</sub>



#### CH9



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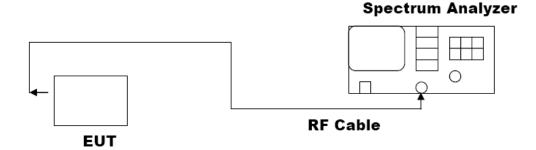
#### 8. 6DB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥RBW.
- 5. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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#### 8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11b with data rate 11

LIMITS AND MEASUREMENT RESULT			
Applicable Limits			
Applicable Limits	Test Data (MHz) Criteria		
	Low Channel	10.055	PASS
>500KHZ	Middle Channel	10.015	PASS
	High Channel	9.564	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11g with data rate 54

LIMITS AND MEASUREMENT RESULT			
Applicable Limite	Applicable Limits		
Applicable Limits	Test Data (MHz)		Criteria
>500KHZ	Low Channel	15.337	PASS
	Middle Channel	16.326	PASS
	High Channel	14.658	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 20 with data rate 65

LIMITS AND MEASUREMENT RESULT			
Applicable Limite	Applicable Limits		
Applicable Limits	Test Data (MHz)		Criteria
	Low Channel	15.113	PASS
>500KHZ	Middle Channel	17.010	PASS
	High Channel	15.385	PASS

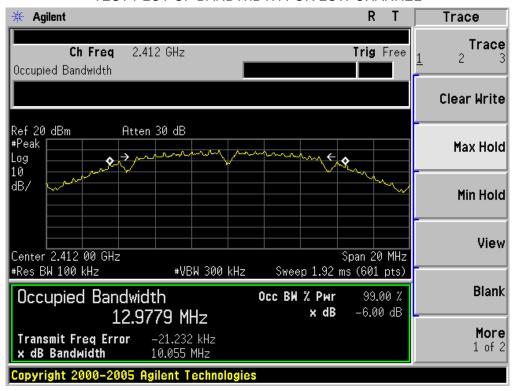
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TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135

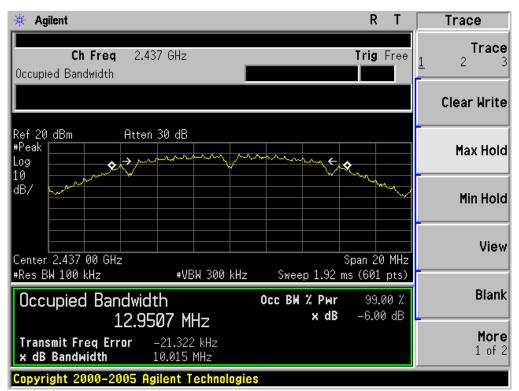
LIMITS AND MEASUREMENT RESULT				
Annliachta Limita	Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria	
>500KHZ	Low Channel	35.017	PASS	
	Middle Channel	35.258	PASS	
	High Channel	35.141	PASS	

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**802.11b TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

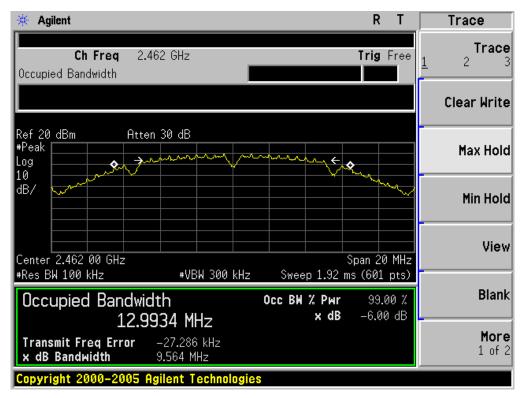


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

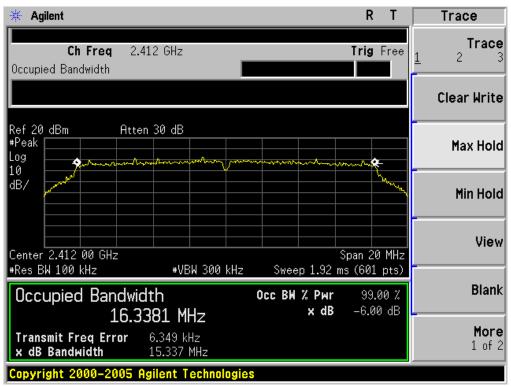


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

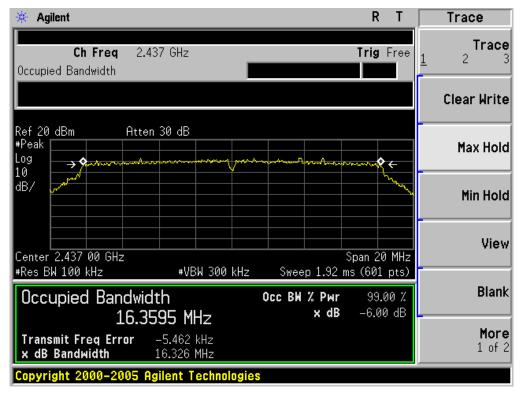


**802.11g TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

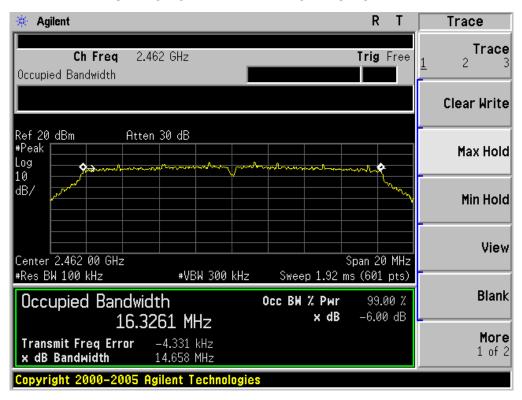


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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

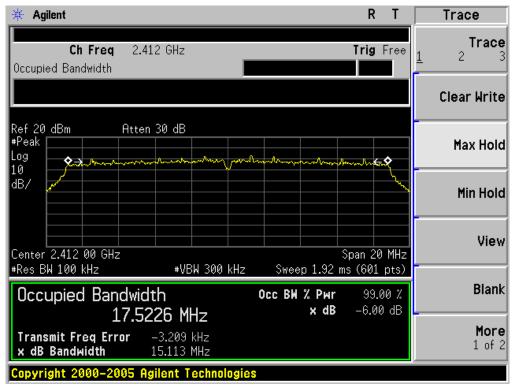


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

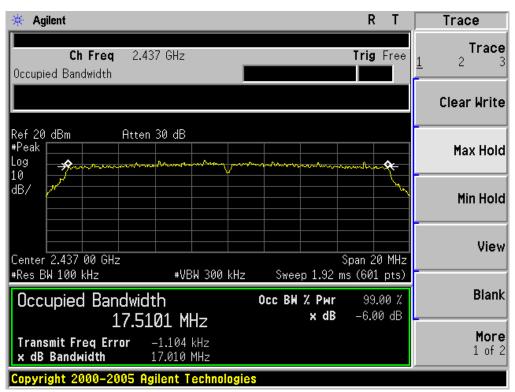


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**802.11n (20) TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

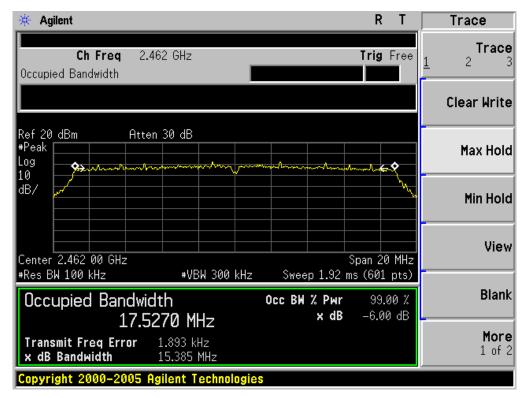


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

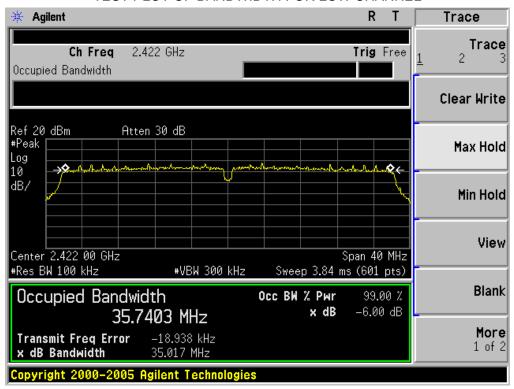


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

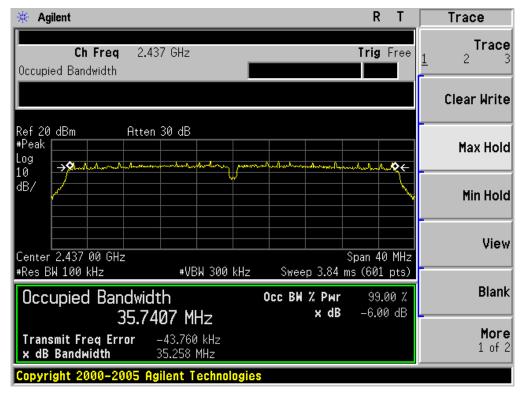


802.11n(40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

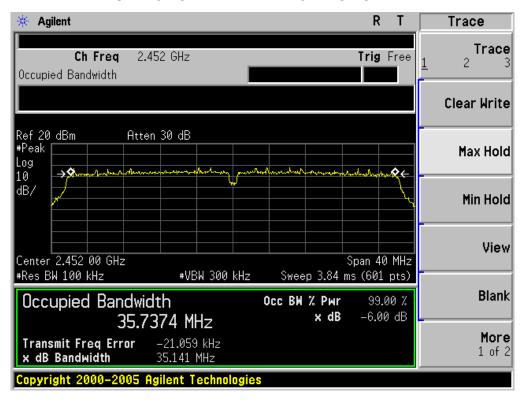


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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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#### 9. CONDUCTED SPURIOUS EMISSION

#### 9.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

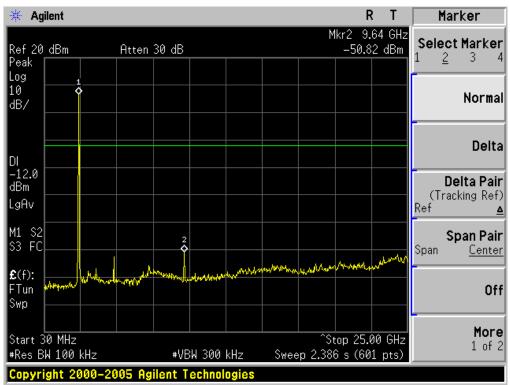
The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

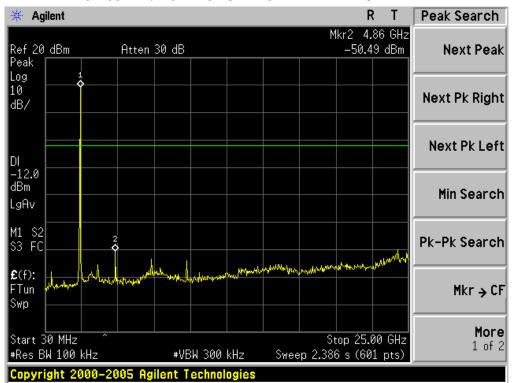
LIMITS AND MEASUREMENT RESULT			
Applicable Limite	Measurement Result		
Applicable Limits	Test Data	Criteria	
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit		
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS	
intentional radiator is operating, the radio frequency	Channel		
power that is produce by the intentional radiator			
shall be at least 20 dB below that in 100KHz			
bandwidth within the band that contains the highest			
level of the desired power.	At least -20dBc than the limit	PASS	
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS	
restricted bands, as defined in §15.205(a), must also			
comply with the radiated emission limits specified			
in§15.209(a))			

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### TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

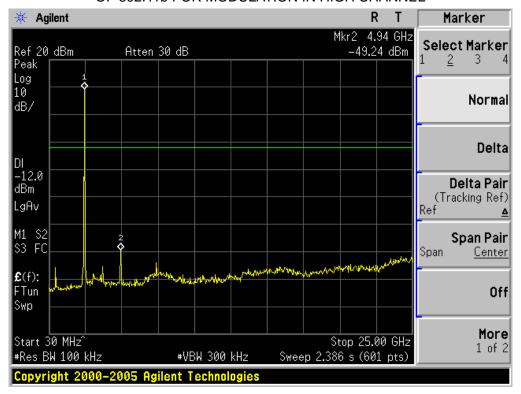


TEST PLOT OF OUT OF BAND EMISSIONS
OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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## TEST PLOT OF OUT OF BAND EMISSIONS OF 802.11b FOR MODULATION IN HIGH CHANNEL



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#### 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

#### **10.1 MEASUREMENT PROCEDURE**

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

#### 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

#### **10.3 MEASUREMENT EQUIPMENT USED**

Refer To Section 6.

#### **10.4 LIMITS AND MEASUREMENT RESULT**

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-4.67	8	Pass
Middle Channel	-4.82	8	Pass
High Channel	-4.02	8	Pass

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11g with data rate 6

Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-11.66	8	Pass
Middle Channel	-10.62	8	Pass
High Channel	-12.42	8	Pass

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TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

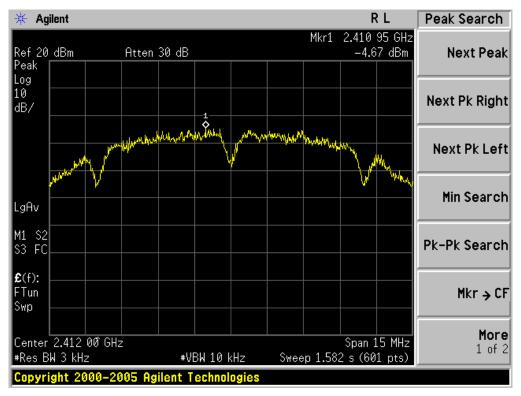
Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-12.30	8	Pass
Middle Channel	-10.66	8	Pass
High Channel	-12.79	8	Pass

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

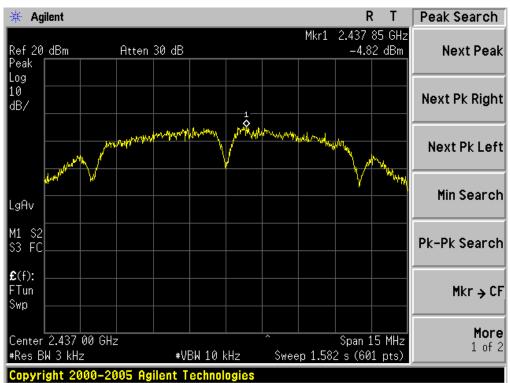
Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-17.03	8	Pass
Middle Channel	-14.33	8	Pass
High Channel	-14.66	8	Pass

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**802.11b TEST RESULT**TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

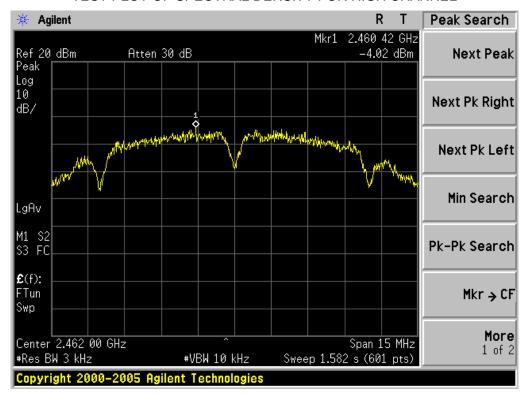


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

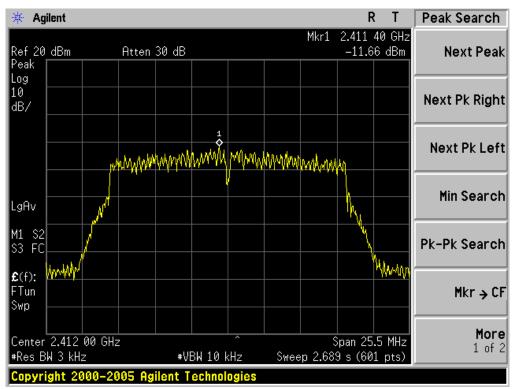


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#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

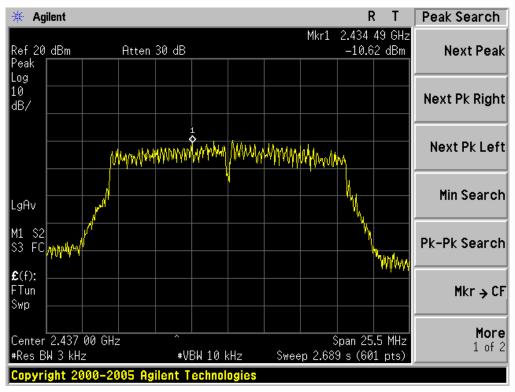


**802.11g TEST RESULT**TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

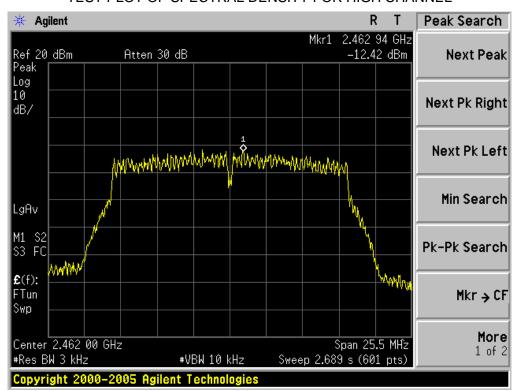


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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

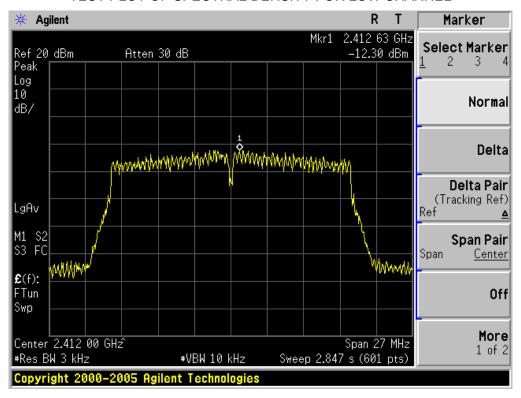


#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

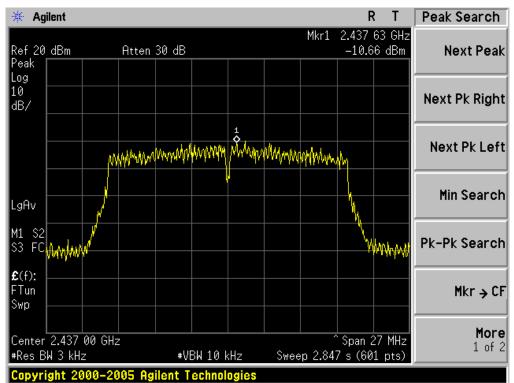


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802.11n 20 TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

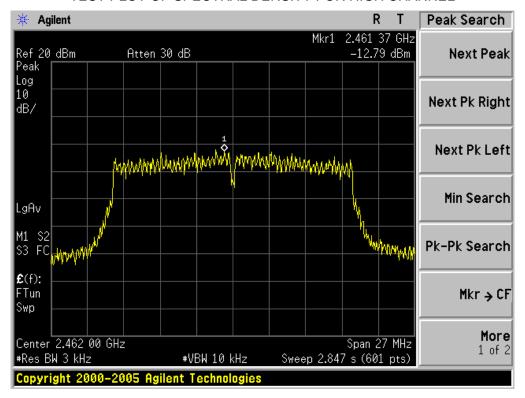


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

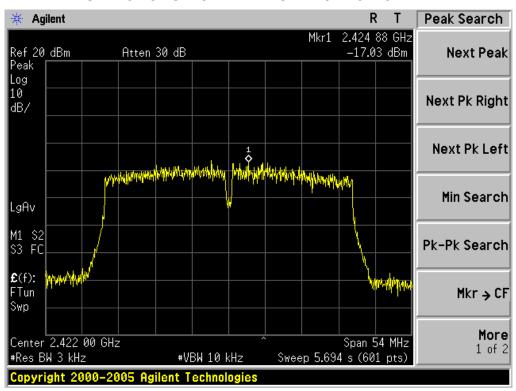


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#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

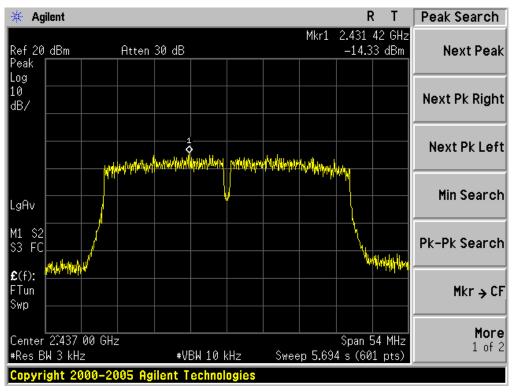


**802.11n 40 TEST RESULT**TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

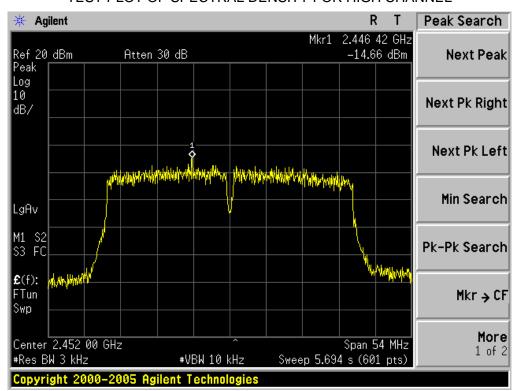


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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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#### 11. RADIATED EMISSION

#### 11.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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#### 11.2. TEST SETUP

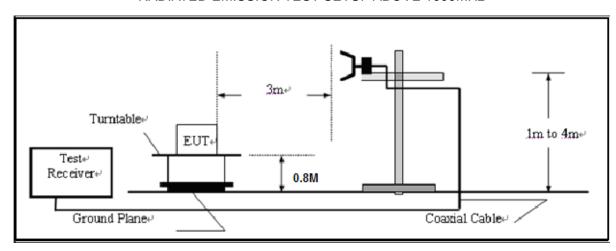
### RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

## 11.4. TEST RESULT

#### **RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

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### **RADIATED EMISSION BELOW 1GHZ**

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



Site: site #1

Limit: FCC Class B 3M Radiation EUT: Mobile Phone

M/N: W0590

Mode: Low Channel TX

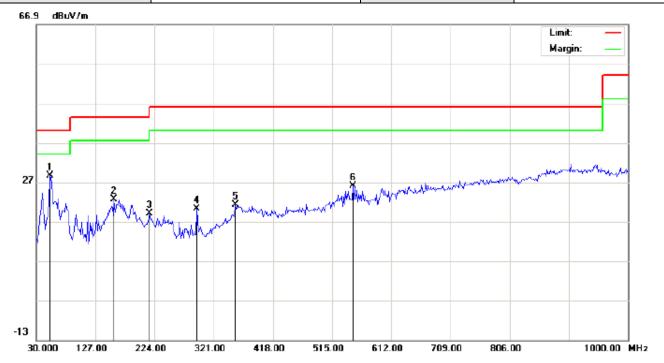
Note:

Polarization: Horizontal Temperature: 26
Power: Humidity: 60 %

Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	41.3166	24.64	8.81	33.45	40.00	-6.55	peak			
2		68.7998	20.03	4.73	24.76	40.00	-15.24	peak			
3		152.8667	6.74	15.28	22.02	43.50	-21.48	peak			
4		185.1999	8.91	12.75	21.66	43.50	-21.84	peak			
5		120.5332	14.28	7.08	21.36	43.50	-22.14	peak		·	
6		728.3999	1.40	26.01	27.41	46.00	-18.59	peak			

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

Distance:

EUT: Mobile Phone

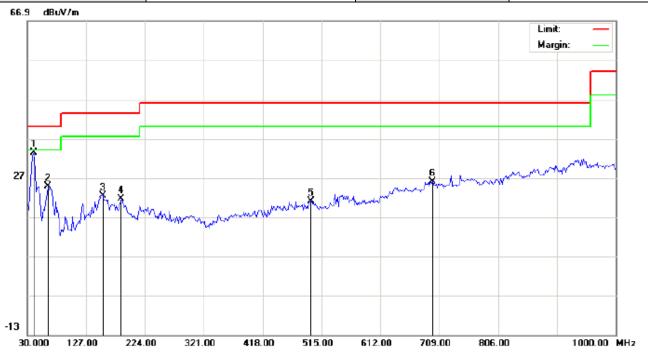
M/N: W0590

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1	*	52.6332	17.34	11.22	28.56	40.00	-11.44	peak			
2		157.7167	7.22	15.32	22.54	43.50	-20.96	peak			
3		215.9166	6.50	12.60	19.10	43.50	-24.40	peak			
4		293.5167	4.95	15.21	20.16	46.00	-25.84	peak			
5		356.5667	2.35	18.78	21.13	46.00	-24.87	peak			
6		548.9500	3.54	22.45	25.99	46.00	-20.01	peak			

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Mobile Phone M/N: W0590

Mode: Middle Channel TX

Note:

Polarization: Horizontal Temperature: 26 Humidity: 60 % Power:

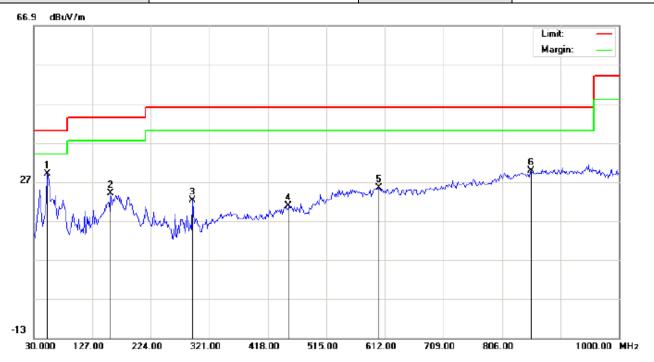
Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	41.3166	24.64	8.81	33.45	40.00	-6.55	peak			
2		63.9500	18.11	6.61	24.72	40.00	-15.28	peak			
3		154.4833	7.14	15.29	22.43	43.50	-21.07	peak			
4		185.1999	8.91	12.75	21.66	43.50	-21.84	peak			
5		497.2167	-0.08	21.10	21.02	46.00	-24.98	peak			
6		697.6833	0.80	25.13	25.93	46.00	-20.07	peak			

Temperature: 26

Humidity: 60 %

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: W0590

Mode: Middle Channel TX

Note:

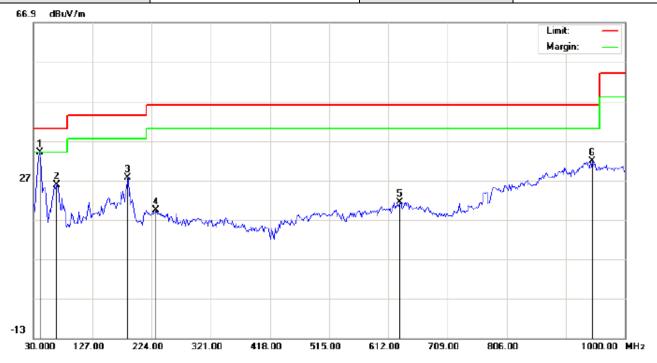
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	52.6332	17.84	11.22	29.06	40.00	-10.94	peak			
2		157.7167	8.72	15.32	24.04	43.50	-19.46	peak			
3		293.5167	6.95	15.21	22.16	46.00	-23.84	peak			
4		451.9499	0.27	20.61	20.88	46.00	-25.12	peak			
5		602.2999	1.59	23.74	25.33	46.00	-20.67	peak			
6		854.5000	2.46	27.43	29.89	46.00	-16.11	peak			

Power:

Distance:

Polarization: Vertical

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Mobile Phone Distance:

Mode: High Channel TX

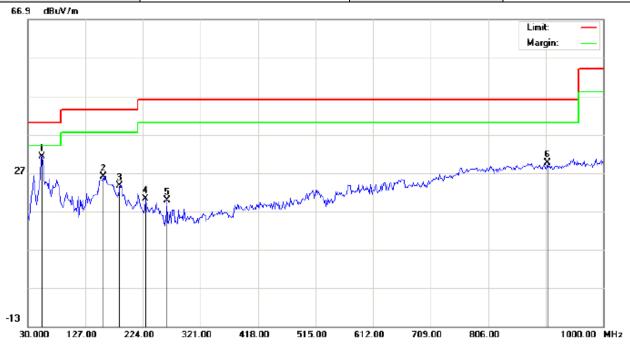
Note:

M/N: W0590

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	41.3166	25.14	8.81	33.95	40.00	-6.05	peak			
2		68.7998	21.03	4.73	25.76	40.00	-14.24	peak			
3		185.1999	14.91	12.75	27.66	43.50	-15.84	peak			
4		230.4667	7.38	11.99	19.37	46.00	-26.63	peak			
5		631.3999	-2.03	23.43	21.40	46.00	-24.60	peak			
6		946.6499	1.85	29.91	31.76	46.00	-14.24	peak			

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EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Mobile Phone Distance:

M/N: W0590

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	54.2500	19.91	11.20	31.11	40.00	-8.89	peak			
2		157.7167	10.72	15.32	26.04	43.50	-17.46	peak			
3		185.1999	12.26	11.31	23.57	43.50	-19.93	peak			
4		228.8499	7.10	13.10	20.20	46.00	-25.80	peak			
5		264.4166	5.45	14.34	19.79	46.00	-26.21	peak		·	
6		906.2332	0.78	28.78	29.56	46.00	-16.44	peak		·	

## **RESULT: PASS**

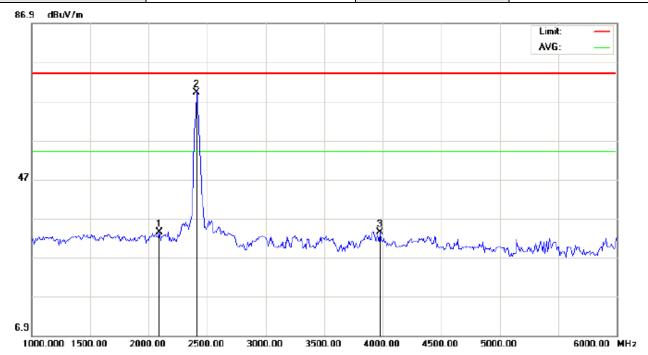
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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### **RADIATED EMISSION ABOVE 1GHZ**

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

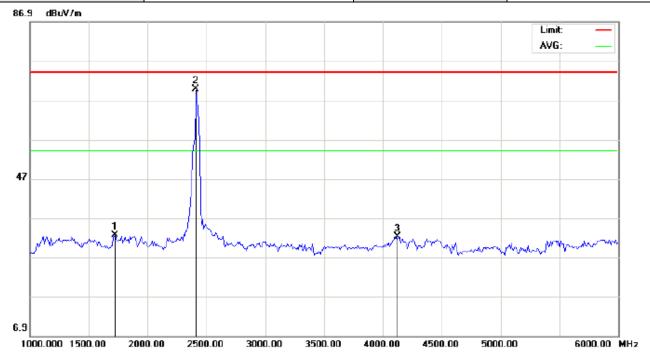
Mode: 802.11b Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2091.667	43.50	-10.02	33.48	74.00	-40.52	peak			
2	*	2412.003	78.78	-9.67	69.11	74.00	-4.89	peak			
3		3975.000	38.34	-4.96	33.38	74.00	-40.62	peak			

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EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

Mode: 802.11b Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1725.000	45.62	-13.01	32.61	74.00	-41.39	peak			
2	*	2412.005	79.57	-9.67	69.90	74.00	-4.10	peak			
3		4125.000	36.67	-4.38	32.29	74.00	-41.71	peak			

## **RESULT: PASS**

Note: The other modes radiation emissions have more than 20dB margin.

All modes radiation emission from 6GHz to 25GHz at least have 20dB margin.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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## 12. BAND EDGE EMISSION

## 12.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency = Operation Frequency, RBW>=1%span, VBW>=RBW
- 3. The band edges was measured and recorded.

## 12.2. TEST SET-UP

Radiated same as 11.2

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### 12.3. TEST RESULT

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

Mode: 802.11b Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	er Detector Height Degree C		Comment	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2325.433	42.57	-9.76	32.81	74.00	-41.19	peak			
2		2390.000	41.40	-9.69	31.71	74.00	-42.29	peak			
3	*	2412.005	80.00	-9.67	70.33	74.00	-3.67	peak			

EUT	Mobile Phone	Model Name	W0590	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical	



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

Mode: 802.11b Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2333.367	43.83	-9.75	34.08	74.00	-39.92	peak			
2		2390.000	41.28	-9.69	31.59	74.00	-42.41	peak			
3	*	2412.006	79.64	-9.67	69.97	74.00	-4.03	peak			

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

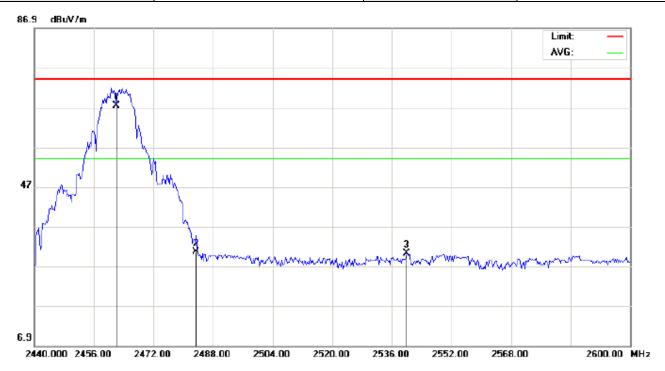
M/N: W0590

Mode: 802.11b High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2462.004	75.39	-9.61	65.78	74.00	-8.22	peak			
2		2483.500	46.81	-9.59	37.22	74.00	-36.78	peak			
3		2584.267	42.66	-9.37	33.29	74.00	-40.71	peak			

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

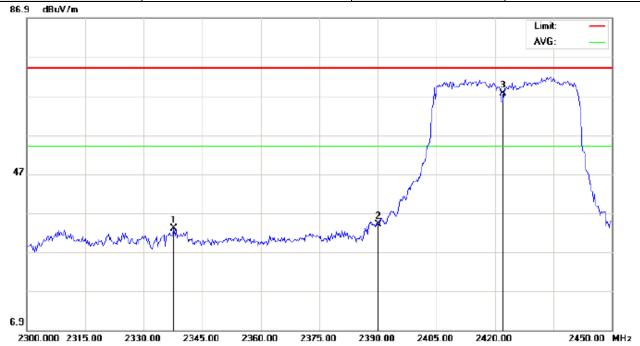
M/N: W0590

Mode: 802.11b High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2462.000	76.92	-9.61	67.31	74.00	-6.69	peak			
2		2483.500	40.22	-9.59	30.63	74.00	-43.37	peak			
3		2540.000	39.67	-9.47	30.20	74.00	-43.80	peak			

EUT	Mobile Phone	Model Name	W0590	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal	



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

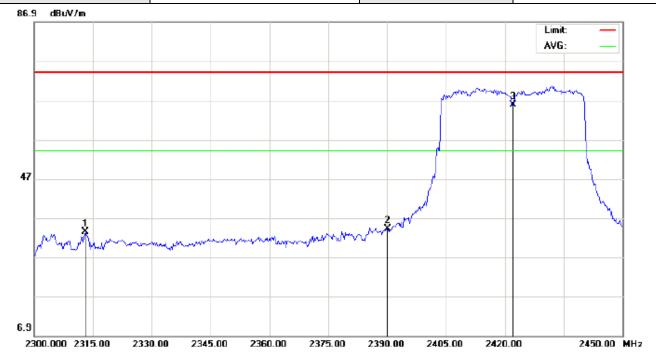
M/N: W0590

Mode: 802.11n(40) Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2337.750	42.82	-9.75	33.07	74.00	-40.93	peak			
2		2390.000	43.71	-9.69	34.02	74.00	-39.98	peak			
3	*	2422.006	77.31	-9.66	67.65	74.00	-6.35	peak			

EUT	Mobile Phone	Model Name	W0590	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical	



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

Mode: 802.11n(40) Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2313.000	43.10	-9.78	33.32	74.00	-40.68	peak			
2		2390.000	43.90	-9.69	34.21	74.00	-39.79	peak			
3	*	2422.000	75.37	-9.66	65.71	74.00	-8.29	peak			

EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5	Antenna	Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

Mode: 802.11n(40) High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2452.009	73.97	-9.62	64.35	74.00	-9.65	peak			
2		2483.500	46.79	-9.59	37.20	74.00	-36.80	peak			
3		2550.983	40.76	-9.45	31.31	74.00	-42.69	peak			

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EUT	Mobile Phone	Model Name	W0590
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Mobile Phone Distance: 3m

M/N: W0590

Mode: 802.11n(40) High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2452.005	73.90	-9.62	64.28	74.00	-9.72	peak			
2		2483.500	47.54	-9.59	37.95	74.00	-36.05	peak			
3		2553.817	39.68	-9.44	30.24	74.00	-43.76	peak			

#### **RESULT: PASS**

Note: The other modes radiation emission have enough 20dB margin.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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## 13. FCC LINE CONDUCTED EMISSION TEST

### 13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF Line Voltage								
Frequency	Q.P.( dBuV)	Average( dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	56	46							
5MHz~30MHz	60	50							

### Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

## 13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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#### 13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

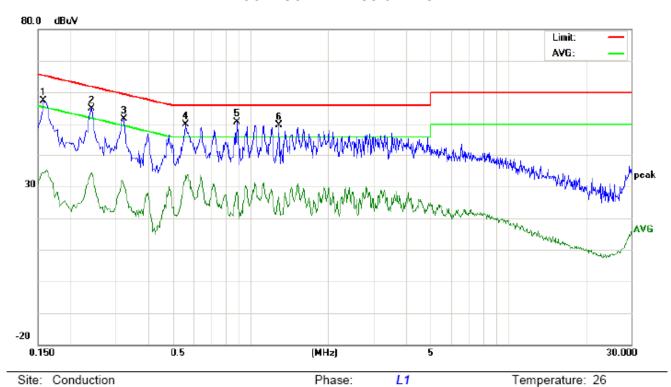
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

Humidity: 60 %

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### 13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### LINE CONDUCTED EMISSION TEST LINE 1-L



Limit: FCC Class B Conduction(QP)

EUT: Mobile Phone M/N: W0590

Mode: Normal Operating(WiFi)

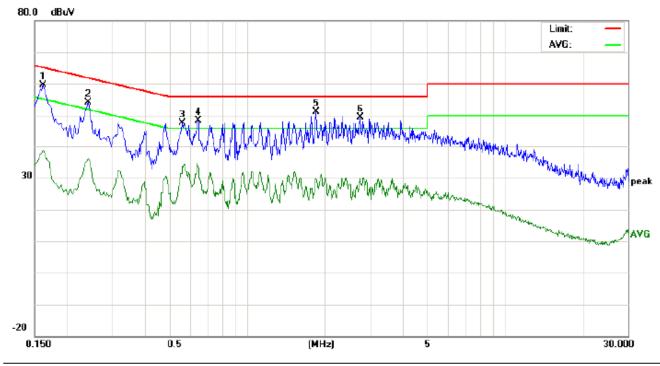
Note:

No.	Freq.	Reading_Level (dBuV)		Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment	
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1580	47.11		24.27	10.17	57.28		34.44	65.56	55.56	-8.28	-21.12	Р	
2	0.2419	44.62		24.00	10.26	54.88		34.26	62.03	52.03	-7.15	-17.77	Р	
3	0.3220	41.24		20.24	10.30	51.54		30.54	59.65	49.65	-8.11	-19.11	Р	
4	0.5620	39.46		23.07	10.34	49.80		33.41	56.00	46.00	-6.20	-12.59	Р	
5	0.8860	40.16		17.94	10.39	50.55		28.33	56.00	46.00	-5.45	-17.67	Р	
6	1.2900	39.26		16.32	10.38	49.64		26.70	56.00	46.00	-6.36	-19.30	Р	

Power:

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## Line Conducted Emission Test Line 2-N



Site: Conduction Phase: N Temperature: 26
Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %

EUT: Mobile Phone M/N: W0590

Mode: Normal Operating(WiFi)

Note:

No.	Freq.	Reading_Level (dBuV)			vel Correct Measurement Factor (dBuV)		1	nit uV)	1	rgin IB)	P/F	Comment		
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1620	49.54		28.56	10.17	59.71		38.73	65.36	55.36	-5.65	-16.63	Р	
2	0.2419	43.82		25.96	10.26	54.08		36.22	62.03	52.03	-7.95	-15.81	Р	
3	0.5620	37.37		23.32	10.34	47.71		33.66	56.00	46.00	-8.29	-12.34	Р	
4	0.6460	37.93		23.26	10.33	48.26		33.59	56.00	46.00	-7.74	-12.41	Р	
5	1.8540	40.77		19.55	10.27	51.04		29.82	56.00	46.00	-4.96	-16.18	Р	
6	2.7580	38.84		18.79	10.49	49.33		29.28	56.00	46.00	-6.67	-16.72	Р	

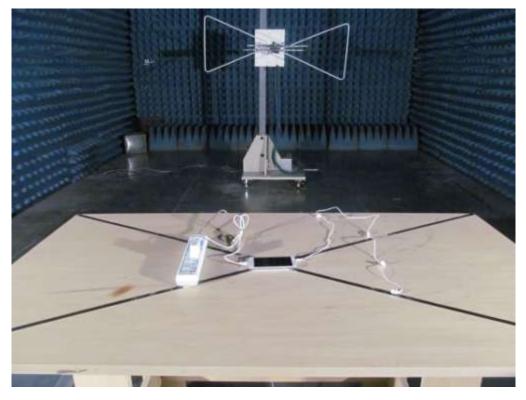
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# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT





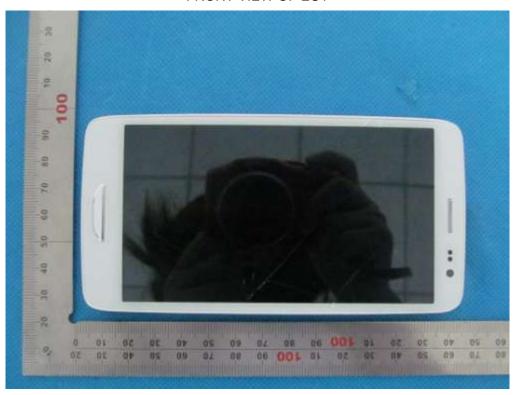
TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



FRONT VIEW OF EUT



**BACK VIEW OF EUT** 

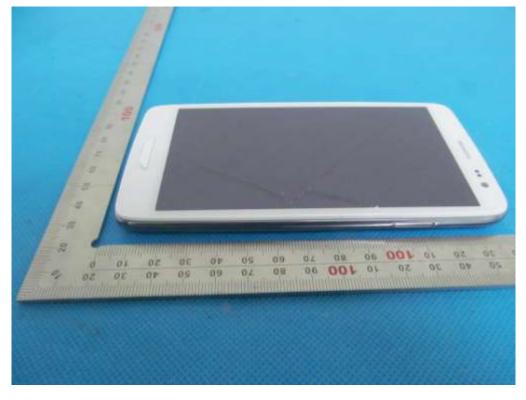


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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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## **OPEN VIEW OF EUT-1**



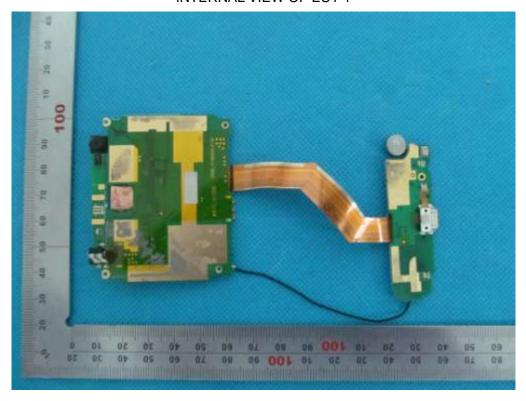
**OPEN VIEW OF EUT-2** 



**OPEN VIEW OF EUT-3** 

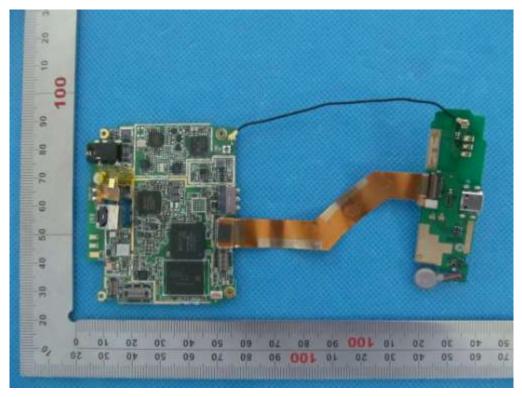


**INTERNAL VIEW OF EUT-1** 



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## **INTERNAL VIEW OF EUT-2**



----END OF REPORT----