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FCC PART 15 SUBPART C TEST REPORT

FCC Part 15.247

Report Reference No...... CTL1306281042-WW

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Date of issue...... August 15, 2013

Representative Laboratory Name .: Shenzhen CTL Electromagnetic Technology Co., Ltd.

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Test Firm Bontek Compliance Testing Laboratory Ltd

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Road, Nanshan, Shenzhen, China

Applicant's name...... SHENZHEN GOLD EAST ELETRONIC CO., LTD

District, Shenzhen, China 518000

Test specification:

Standard FCC Part 15.247: Operation within the bands 902–928 MHz, 2400–

2483.5 MHz, and 5725-5850 MHz.

TRF Originator...... Shenzhen CTL Electromagnetic Technology Co., Ltd.

Master TRF...... Dated 2011-01

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Test item description Tablet PC

FCC ID...... 2AANTL001-30

Trade Mark /

L002-9S, L097-5S, L010-13S, L011-1S, L013-3S, L001-40, L001-40S, L002-10, L002-10S, L097-6, L097-6S, L010-16, L010-16S,

L011-2, L011-2S

GSM/WCDMA

3G:WCDMA Band II: 1850-1910MHz,

WCDMA Band V: 824~849MHz

Result Positive

71.0	Page 2 of 97	Report No.: CTL1306281042-WW
Receive:	2G:GSM 850: 869~894MHz, PCS 1	900: 1930~1990MHz
	3G:WCDMA Band II: 1930~1990MF	Hz,
	WCDMA Band V: 869~894MHz	
Release Version:	2G:R99	
	3G:UMTS FDD: Rel-5	
Type of modulation:	2G: GMSK for GSM/GPRS/EDGE	
	3G: QPSK	
GPRS Type:	Class B	
GPRS Class	Class 12	
GPS		
work frequency:	1575.42MHz	
Type of modulation:	BPSK	
Bluetooth		
Work frequency:	2402~2480MHz	
Version	V3.0	
Type of modulation:	FHSS	
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK	(), 3Mbps(8DPSK)
Wi-Fi		
Work frequency:	802.11b/g/n(20MHz): 2412~2462M	Hz
1 55 1	802.11n(40MHz): 2422~2452	2
Type of modulation:	802.11b DSSS, 802.11g/n: OFDM	
Data Rate	802.11b: 1/2/5.5/11 Mbps	7 0
1 2	802.11g: 6/9/12/18/24/36/48/54 Mb	ps
1 9	802.11n: up to 150 Mbps	2
Antenna Gain	-0.5 dBi for GSM850 and WCDMA	Band V
7	-1.0 dBi for PCS1900 and WCDMA	
1,10	-2.0 dBi for Bluetooth and Wi-Fi	
Antenna type	Internal	
IMEI	-2.0 dBi for Bluetooth and Wi-Fi Internal 357619049208958	

TEST REPORT

Test Report No. :	CTL1306281042-WW	August 15, 2013
rest Report No	0121300201042-4444	Date of issue

Equipment under Test : Tablet PC

Model /Type : L001-30

Listed Models : L002-6, L097-5, L010-13, L011-1, L001-30S, L002-6S,

L002-9S, L097-5S, L010-13S, L011-1S, L013-3S, L001-40, L001-40S, L002-10, L002-10S, L097-6, L097-6S, L010-16,

L010-16S, L011-2, L011-2S

Difference Description Only the model's name is different

Applicant : SHENZHEN GOLD EAST ELETRONIC CO., LTD

Address : 6F, Bldg #11, Yusheng Industry Area, #467 Gushu, Xixiang,

Bao'an District, Shenzhen, China 518000

Manufacturer : SHENZHEN GOLD EAST ELETRONIC CO., LTD

Address : 6F, Bldg #11, Yusheng Industry Area, #467 Gushu, Xixiang,

Bao'an District, Shenzhen, China 518000

	0.
Test Result according to the standards on page 5:	Positive
Standards on page of	100

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Part 15.247:</u> Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices.

ANSI C63.4-2003

KDB Publication No. KDB558074 D01 v03r01 Guidance on Measurements for Digital Transmission Systems



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2. <u>SUMMAR</u>Y

2.1. General Remarks

Date of receipt of test sample	:	July 22, 2013
Testing commenced on	:	July 22, 2013
Testing concluded on	:	August 15, 2013

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	•	120V / 60 Hz	○ 115V / 60Hz
	1	0	12 V DC	○ 24 V DC
	P	•	Other (specified in blank below)	

DC 3.7V from battery

Description of the test mode

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT, but only eleventh channels used for USA.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	16 1	
6	2437		. //
7	2442	20	

2.3. Short description of the Equipment under Test (EUT)

A Tablet PC (L001-30) with UMTS/GSM, Bluetooth, GPS and wifi function.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

2.4. EUT operation mode

Test Mode:

1. The EUT has been tested under normal operating condition.

2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed. Channel low (2412MHz), mid (2442MHz) and high (2462MHz) with highest data rate are chosen for full testing.

3. Test Mode:

Test Mode(TM)	Description	Remark
1	Transmitting	802.11 b
2	Transmitting	802.11 g
3	Transmitting	802.11 n HT20
4	Transmitting	802.11 n HT40

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

O - supplied by the manufacturer

supplied by the lab

Notebook PC Manufacturer: lenovo

Model No.: E43L

2.6. NOTE

1. The EUT is an 802.11b/g/n Tablet PC, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g, 802.11n	FCC Part 15 Subpart C (Section15.247)	CTL1306281042-WW
WLAN 802.11b/g, 802.11n	FCC Per 47 CFR 2.1091(b)	137S031R-HP-US-P03V01

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	V		TO THE	
802.11g	VAIP		-4() -1	_
802.11n(20MHz)	1 27 1/57	//-AHDak	0 - 117	_
802.11n(40MHz)	1 2 1		1 797	_

3. The EUT incorporates a SISO function, Physically, the EUT provides two completed transmitter and two completed receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX
2.7. Related Submittal(s) / Grant (s)	agneticTec

2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AANTL001-30 filing to comply with of the FCC Part 15.247 Rules.

2.8. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Bontek Compliance Testing Laboratory Ltd 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 7631A

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on March, 2011.

FCC-Registration No.: 338263

Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March 24, 2008.

3.3. Environmental conditions

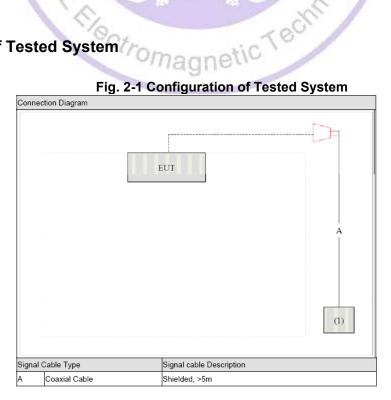
During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Configuration of Tested System



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3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Bontek Compliance Testing Laboratory Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Bontek laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3.6. Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Last Cal.	Due. Date
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	2013/04/14	2014/04/13
2	Radio Communication Tester	nmunication ROHDE & SCHWARZ		2013/04/14	2014/04/13
3	Dual Directional Coupler	Agilent	778D	2013/04/14	2014/04/13
4	10dB attenuator	SCHWARZBECK	MTAIMP-136	2013/04/14	2014/04/13
5	Tunable Bandreject filter	K&L	3TNF-800	2013/04/14	2014/04/13
6	Tunable Bandreject filter	K&L	5TNF-1700	2013/04/14	2014/04/13
7	High-Pass Filter	K&L	9SH10- 2700/X12750- O/O	2013/04/14	2014/04/13
8	High-Pass Filter	K&L	41H10- 1375/U12750- O/O	2013/04/14	2014/04/13
9	Coaxial Cable	Huber+Suhner	AC4-RF-H	2013/04/14	2014/04/13
10	AC Power Supply	IDRC	CF-500TP	2013/04/14	2014/04/13
11	DC Power Supply	IDRC	CD-035-020PR	2013/04/14	2014/04/13
12	RF Current Probe	FCC	F-33-4	2013/04/14	2014/04/13
13	Temperature /Humidity Meter	zhicheng	ZC1-2	2013/04/14	2014/04/13
14	MICROWAVE AMPLIFIER	HP 4	8349B	2013/04/14	2014/04/13
15	Amplifier	HP	8447D	2013/04/14	2014/04/13
16	SIGNAL GENERATOR	HP	8647A	2013/04/14	2014/04/13
17	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	2013/04/14	2014/04/13
18	Horn Antenna	Schwarzbeck	BBHA9120A	2013/04/14	2014/04/13
19	EMI Test Receiver	R&S	ESPI	2013/04/14	2014/04/13
20	Loop Antenna	ZHINAN	ZN30900A	2013/04/14	2014/04/13
21	Horn Antenna	Schwarzbeck	BBHA9120D	2013/04/14	2014/04/13
22	Horn Antenna	Schwarzbeck	BBHA9170	2013/04/14	2014/04/13
23	Spectrum Analyzer	Agilent	E4446A	2013/04/14	2014/04/13
24	Wideband Peak Power Meter	Anritsu	ML2495A	2013/04/14	2014/04/13
25	Power Sensor	Anritsu	MA2411B	2013/04/14	2014/04/13

3.7. Summary of Test Result

FCC PART 15		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS
FCC Per 47 CFR 2.1091(b)	MPE Evaluation	PASS

Remark: The measurement uncertainty is not included in the test result.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	Normal Link	11 Mbps	1
	11b/DSSS	11 Mbps	1/6/11
Maximum Peak Conducted Output Power Power Spectral Density	11g/OFDM	54 Mbps	1/6/11
6dB Bandwidth Spurious RF conducted emission	11n(20MHz)/OFDM	65Mbps	1/6/11
Spurious RF conducted emission	11n(40MHz)/OFDM	150Mbps	3/6/9
0	11b/DSSS	11 Mbps	1/6/11
3 -41	11g/OFDM	54 Mbps	1/6/11
Radiated Emission 30MHz~1GHz	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
Teo.	11b/DSSS	11 Mbps	1/6/11
-1	11g/OFDM	54 Mbps	1/6/11
Radiated Emission 1GHz~10th Harmonic	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
	11b/DSSS	11 Mbps	1/11
Band Edge Compliance of RF Emission	11g/OFDM	54 Mbps	1/11
	11n(20MHz)/OFDM	65Mbps	1/11
	11n(40MHz)/OFDM	150Mbps	3/9

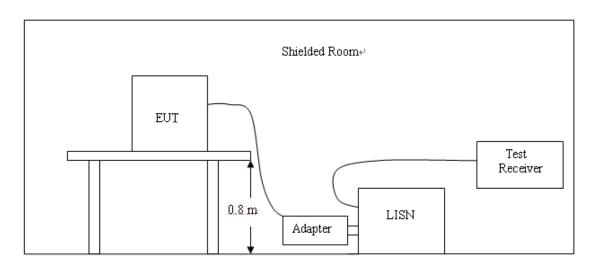
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

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4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Frequency (MHz)	Maximum RF Line Voltage (dBμv)						
	CLA	SS A	CLASS B				
(Q.P.	Ave.	Q.P.	Ave.			
0.15 - 0.50	79	66	66-56*	56-46*			
0.50 - 5.00	73	60	56	46			
5.00 - 30.0	73	60	60	50			

^{*} Decreasing linearly with the logarithm of the frequency

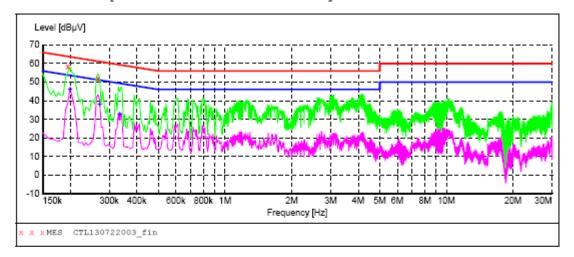
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

- 1. Please follow the guidelines in ANSI C63.4-2003.
- 2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 4. All the support units are connecting to the other LISN.
- 5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 7. Both sides of AC line were checked for maximum conducted interference.
- 8. The frequency range from 150 kHz to 30 MHz was searched.
- 9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

The RBW/VBW for 150KHz to 30MHz: 9KHz

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



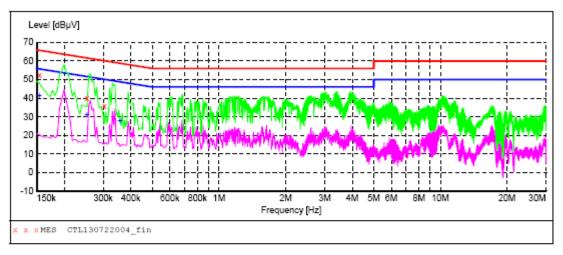
MEASUREMENT RESULT: "CTL130722003_fin"

7/22/2013 2:	31PM						
Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.195000 0.267000	58.40 51.70	9.8 9.8	64 61	5.4 9.5	_	N	GND GND

MEASUREMENT RESULT: "CTL130722003_fin2"

7/22/2013 2:33 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.199500 0.271500 0.334500	46.70 38.60 33.00	9.8 9.8 9.8	54 51 49	6.9 12.5 16.3	AV AV AV	N N	GND GND GND
		1/2	1			Chil	5
		ac	tron	nagn	eticT		

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL130722004_fin"

7/22/2013	2:41PM						
-	cy Level Hz dBµV			Margin dB	Detector	Line	PE
0.1545	00 52.60	9.8	66	13.2	QP	Ll	GND
0.2535	00 40.10	9.8	62	21.5	QP	Ll	GND
0.3030	00 35.60	9.8	60	24.6	QP	Ll	GND

MEASUREMENT RESULT: "CTL130722004_fin2"

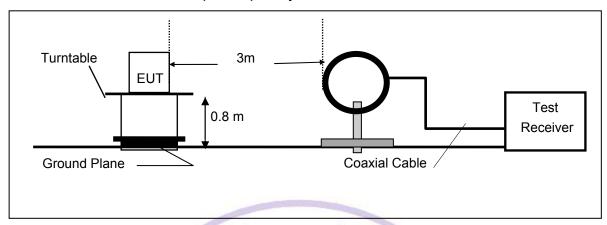
7/22/2013 2: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500 0.253500 0.357000	41.80 31.30 28.40	9.8 9.8 9.8	56 52 49	14.0 20.3 20.4	AV AV AV	L1 L1 L1	GND GND GND
	19		3				9
		1/00	y		70	Chi	
			ron	nagn	etic ,		

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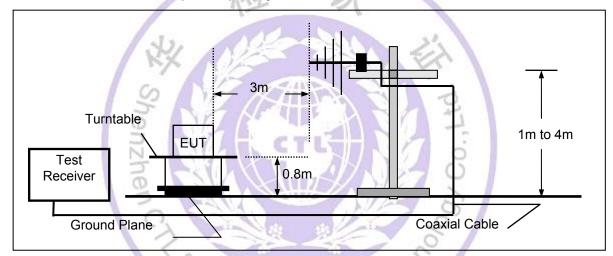
4.2. Radiated Emission Test

TEST CONFIGURATION

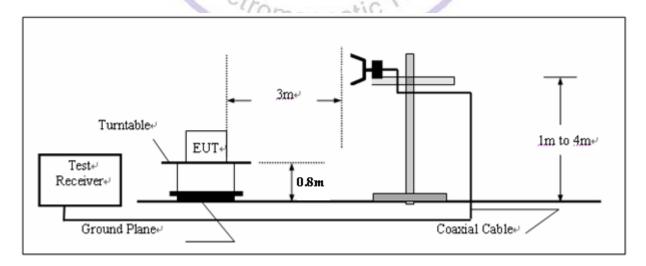
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



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FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)			
RA = Reading Amplitude	AG = Amplifier Gain			
AF = Antenna Factor				

TEST PROCEDURE

- The testing follows FCC KDB Publication No. KDB558074 D01 v03r01 (Measurement Guidelines of DTS), the EUT was setup according to ANSI C63.4: and tested according to ANSI C63.10 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane.
- 3. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° C to 360° C to acquire the highest emissions from EUT
- 4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f >1 GHz, 120 kHz for f < 1 GHz; VBW ≧ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 6. Repeat above procedures until all frequency measurements have been completed.

Note:

When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the "cone of radiation" of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (μV/m)
30-88	3''lagi	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is 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 desired power.

TEST RESULTS

Mode1: Transmit at 802.11b

СН	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	4824.0	46.8	-7.1	39.7	54(note3)	-14.3	PK
	V					. ,		
		4824.0	47.1	-7.2	39.9	54(note3)	-14.1	PK
1	Н	7236.0	43.2	-1.7	41.5	54(note3)	-12.5	PK
'	V	7236.0	42.6	-1.8	40.8	54(note3)	-13.2	PK
	Н	9648.0	39.1	4.3	43.4	54(note3)	-10.6	PK
	V	9648.0	38.9	4.4	43.3	54(note3)	-10.7	PK
	Н	4874.0	45.8	-7.0	38.8	54(note3)	-15.2	PK
	V	4874.0	46.8	-7.0	39.8	54(note3)	-14.2	PK
	Н	7311.0	43.0	-1.6	41.4	54(note3)	-12.6	PK
6	V	7311.0	42.7	-1.6	41.1	54(note3)	-12.9	PK
	Н	9748.0	39.1	4.5	43.6	54(note3)	-10.4	PK
	V	9748.0	38.1	4.6	42.7	54(note3)	-11.3	PK
	H	4924.0	47.5	-7.1	40.4	54(note3)	-13.6	PK
	V	4924.0	47.0	-7.0	40	54(note3)	-14	PK
11	Н	7386.0	42.6	-1.3	41.3	54(note3)	-12.7	PK
''	V	7386.0	41.7	-1.3	40.4	54(note3)	-13.6	PK
	Н	9848.0	38.6	4.9	43.5	54(note3)	-10.5	PK
	V	9848.0	37.4	5.0	42.4	54(note3)	-11.6	PK

Note: 1. Measure Level = Reading Level + Factor.

nzhen Carlo Carlo

^{2.} The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

^{3.} This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode2: Transmit at 802.11g

СН	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	4824.0	47.1	-7.1	40	54(note3)	-14	PK
	V	4824.0	47.0	-7.2	39.8	54(note3)	-14.2	PK
1	Н	7236.0	43.6	-1.7	41.9	54(note3)	-12.1	PK
ı	V	7236.0	42.6	-1.8	40.8	54(note3)	-13.2	PK
	Н	9648.0	39.5	4.3	43.8	54(note3)	-10.2	PK
	V	9648.0	38.8	4.4	43.2	54(note3)	-10.8	PK
	Н	4874.0	45.9	-7.0	38.9	54(note3)	-15.1	PK
	V	4874.0	46.4	-7.0	39.4	54(note3)	-14.6	PK
6	Н	7311.0	43.3	-1.6	41.7	54(note3)	-12.3	PK
0	V	7311.0	42.8	-1.6	41.2	54(note3)	-12.8	PK
	Н	9748.0	39.4	4.5	43.9	54(note3)	-10.1	PK
	V	9748.0	39.2	4.6	43.8	54(note3)	-10.2	PK
	Н	4924.0	47.6	-7.1	40.5	54(note3)	-13.5	PK
	V	4924.0	46.6	-7.0	39.6	54(note3)	-14.4	PK
11	Н	7386.0	42.6	-1.3	41.3	54(note3)	-12.7	PK
''	V	7386.0	42.7	-1.3	41.4	54(note3)	-12.6	PK
	Н	9848.0	37.2	4.9	42.1	54(note3)	-11.9	PK
	V	9848.0	37.5	5.0	42.5	54(note3)	-11.5	PK

Note: 1. Measure Level = Reading Level + Factor.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



^{2.} The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

Mode3: Transmit at 802.11n(20MHz)

СН	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	4824.0	46.8	-7.1	39.7	54(note3)	-14.3	PK
	V	4824.0	47.1	-7.2	39.9	54(note3)	-14.1	PK
1	Н	7236.0	43.2	-1.7	41.5	54(note3)	-12.5	PK
	V	7236.0	42.6	-1.8	40.8	54(note3)	-13.2	PK
	Н	9648.0	39.1	4.3	43.4	54(note3)	-10.6	PK
	V	9648.0	38.9	4.4	43.3	54(note3)	-10.7	PK
	Н	4874.0	45.8	-7.0	38.8	54(note3)	-15.2	PK
	V	4874.0	45.9	-7.0	38.9	54(note3)	-15.1	PK
	Н	7311.0	42.5	-1.6	40.9	54(note3)	-13.1	PK
6	V	7311.0	43.2	-1.6	41.6	54(note3)	-12.4	PK
	Н	9748.0	38.3	4.5	42.8	54(note3)	-11.2	PK
	V	9748.0	38.0	4.6	42.6	54(note3)	-11.4	PK
	Н	4924.0	47.2	-7.1	40.1	54(note3)	-13.9	PK
	V	4924.0	46.6	-7.0	39.6	54(note3)	-14.4	PK
	Н	7386.0	42.8	-1.3	41.5	54(note3)	-12.5	PK
11	V	7386.0	42.4	-1.3	41.1	54(note3)	-12.9	PK
	Н	9848.0	37.8	4.9	42.7	54(note3)	-11.3	PK
	V	9848.0	37.7	5.0	42.7	54(note3)	-11.3	PK

Note: 1. Measure Level = Reading Level + Factor.

^{3.} This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



^{2.} The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

Mode4: Transmit at 802.11n(40MHz)

СН	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	4844.0	46.8	-7.0	39.8	54(note3)	-14.2	PK
	V	4844.0	46.3	-7.1	39.2	54(note3)	-14.8	PK
3	Н	7266.0	42.5	-1.7	40.8	54(note3)	-13.2	PK
	V	7266.0	41.6	-1.7	39.9	54(note3)	-14.1	PK
	Н	9688.0	39.0	4.5	43.5	54(note3)	-10.5	PK
	V	9688.0	38.0	4.5	42.5	54(note3)	-11.5	PK
	Н	4874.0	46.1	-7.0	39.1	54(note3)	-14.9	PK
	V	4874.0	46.1	-7.0	39.1	54(note3)	-14.9	PK
	Н	7311.0	42.5	-1.6	40.9	54(note3)	-13.1	PK
6	V	7311.0	42.4	-1.6	40.8	54(note3)	-13.2	PK
	Н	9748.0	37.9	4.5	42.4	54(note3)	-11.6	PK
	V	9748.0	38.1	4.6	42.7	54(note3)	-11.3	PK
	Н	4904.0	46.4	-7.1	39.3	54(note3)	-14.7	PK
	V	4904.0	46.5	-7.0	39.5	54(note3)	-14.5	PK
9	Н	7356.0	42.8	-1.4	41.4	54(note3)	-12.6	PK
9	V	7356.0	41.8	-1.4	40.4	54(note3)	-13.6	PK
	Н	9808.0	37.4	4.8	42.2	54(note3)	-11.8	PK
	V	9808.0	38.2	4.9	43.1	54(note3)	-10.9	PK

Note: 1. Measure Level = Reading Level + Factor.

- 2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.
- 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

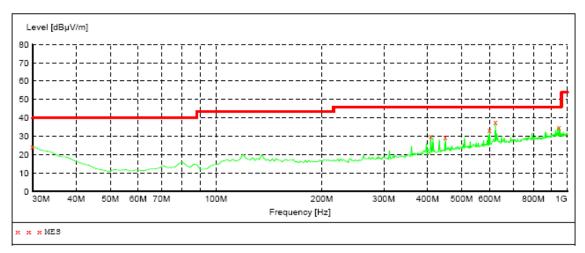


The worst case of Radiated Emission below 1GHz:

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi

Short Description: Field Strength
Start Stop Detector Meas. IF Transducer
Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak 300.0 ms 120 kHz JB1



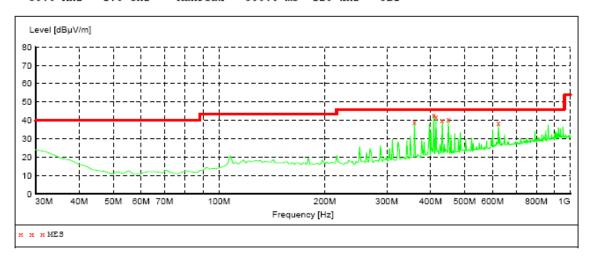
MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000 408.300000 449.040000 600.360000 945.680000	24.50 30.10 29.40 33.60 37.70 34.80	21.1 18.4 19.2 21.8 22.3 26.6	40.0 46.0 46.0 46.0 46.0	15.5 15.9 16.6 12.4 8.3 11.2	atic	0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength

Stop Start Detector Meas. ĪF Transducer

Time Bandw. Frequency Frequency 30.0 MHz 300.0 ms 120 kHz 1.0 GHz MaxPeak JB1



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
359.800000 408.300000 414.120000 431.580000 449.040000 623.640000	39.10 43.20 42.10 40.20 40.60 38.70	17.3 18.4 18.6 18.9 19.2 22.3	46.0 46.0 46.0 46.0 46.0	6.9 2.8 3.9 5.8 5.4 7.3	tic	0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL

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4.3. 6dB Bandwidth Measurement

TEST CONFIGURATION



TEST PROCEDURE

- 1. The testing follows FCC KDB Publication No. KDB558074 D01 v03r01 (Measurement Guidelines of DTS).
- 2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.
- 4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

LIMIT

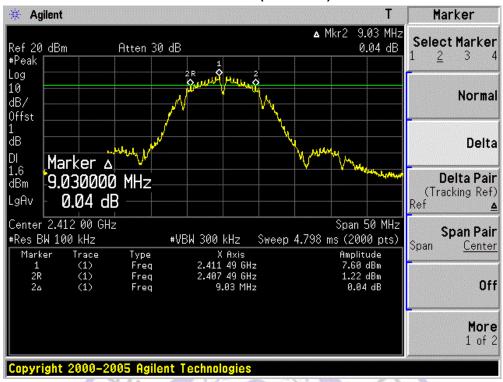
For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST RESULTS

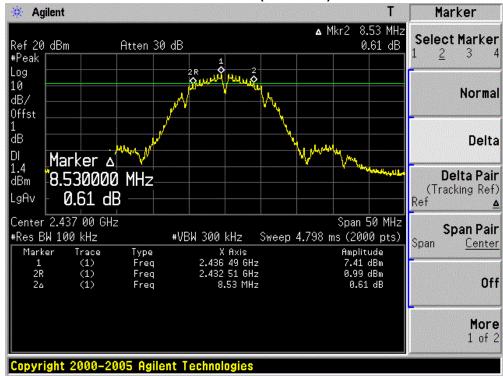
Product	Tablet PC
Test Item	6dB Occupied Bandwidth
Test Mode	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	9030	500	Pass
06	2437	8530	500	Pass
11	2462	8530	500	Pass
	Flec	tromagnet	icTechn	

Channel 01 (2412MHz)



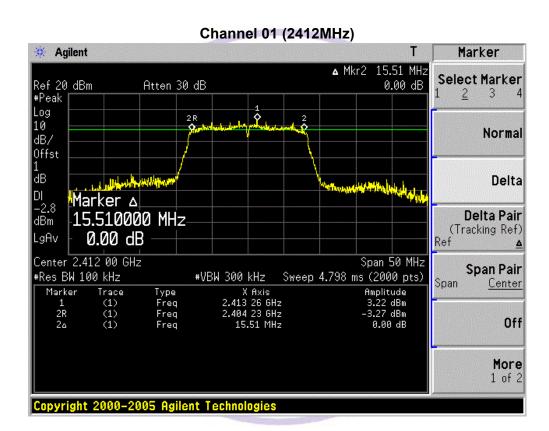


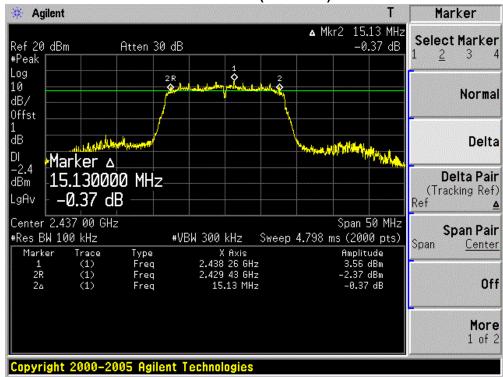


Channel 11 (2462MHz) Agilent Marker ▲ Mkr2 8.53 MHz Select Marker Ref 20 dBm Atten 30 dB 0.27 dB 2 3 #Peak Log 10 Normal dB/ Offst ďΒ Delta Marker A DI 1.8 **Delta Pair** 8.530000 MHz dBm (Tracking Ref) LgAv 0.27 dB Ref Center 2.462 00 GHz Span 50 MHz Span Pair #Res BW 100 kHz #VBW 300 kHz Sweep 4.798 ms (2000 pts) Span Center X Axis 2.461 51 GHz 2.457 49 GHz 8.53 MHz Type Freq Marker Amplitude (1) (1) (1) 7.83 dBm 1.67 dBm 0.27 dB 2R Freq Off 2δ Freq More 1 of 2 Copyright 2000-2005 Agilent Technologies

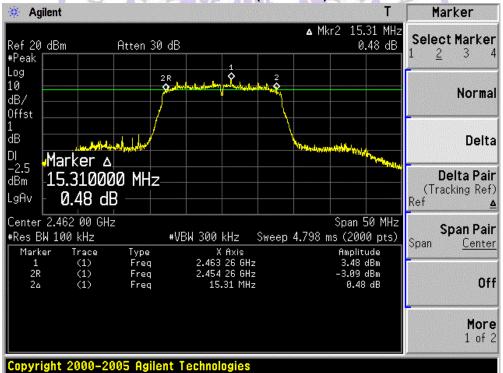
Product	Tablet PC
Test Item	6dB Occupied Bandwidth
Test Mode	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15510	500	Pass
06	2437	15130	500	Pass
11	2462	15310	500	Pass



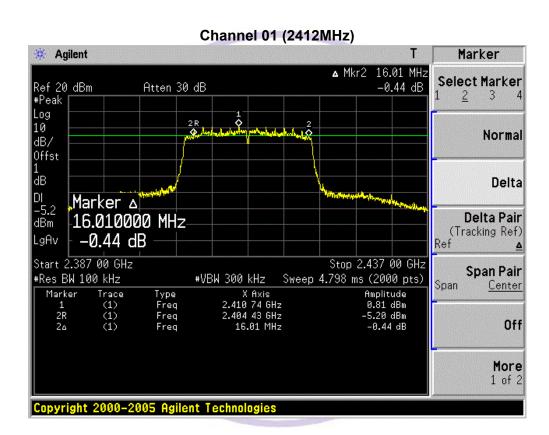


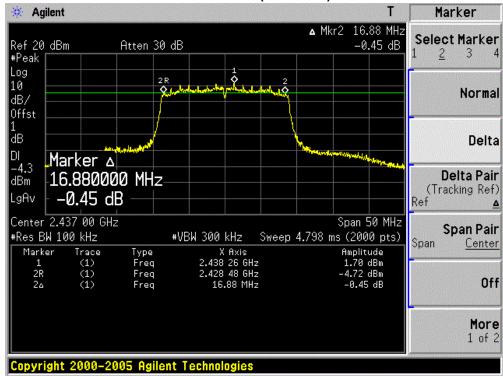
Channel 11 (2462MHz)



Product	Tablet PC
Test Item	6dB Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16010	500	Pass
06	2437	16880	500	Pass
11	2462	16010	500	Pass





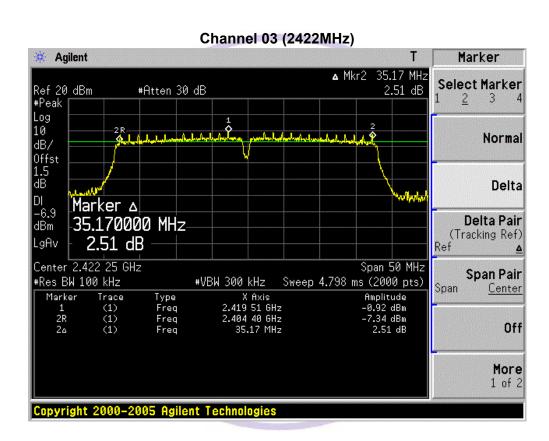
Channel 11 (2462MHz) Agilent Marker ▲ Mkr2 16.01 MHz Select Marker Atten 30 dB Ref 20 dBm 0.12 dB 2 3 #Peak Log Ŷ 10 Normal dB/ Offst ďΒ Delta DI Marker ∆ -4.4 dBm **Delta Pair** 16.010000 MHz (Tracking Ref) LgAv 0.12 dB Ref Center 2.462 00 GHz Span 50 MHz Span Pair #Res BW 100 kHz #VBW 300 kHz Sweep 4.798 ms (2000 pts) Span Center X Axis 2.463 26 GHz 2.453 56 GHz 16.01 MHz Type Freq Marker Amplitude (1) (1) (1) 1.63 dBm -4.47 dBm 0.12 dB 2R Freq Off 2δ Freq More

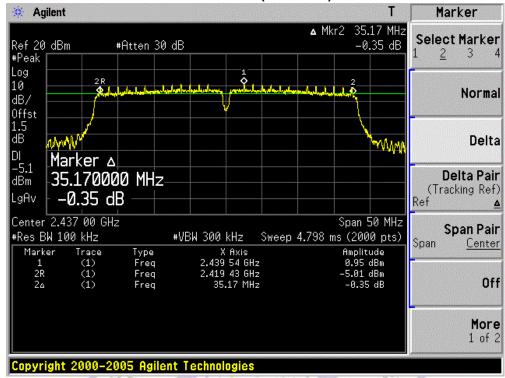
Copyright 2000-2005 Agilent Technologies

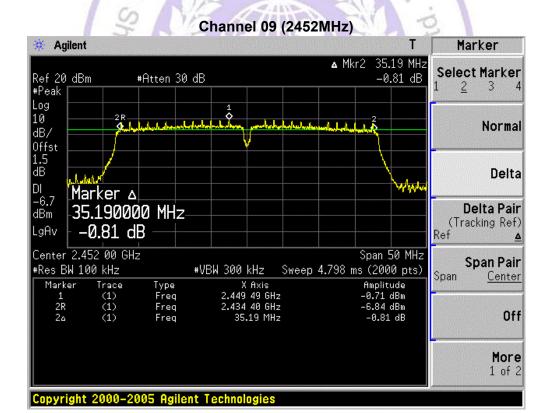
1 of 2

Product	Tablet PC
Test Item	6dB Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	35170	500	Pass
06	2437	35170	500	Pass
09	2452	35190	500	Pass







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4.4. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to C63.10 -2009 and KDB558074 D01 v03r01, The EUT was directly connected to the power meter / spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

Use the wideband power meter to test peak power and record the result.

LIMIT

The Peak Output Power Measurement limits are 30dBm.

TEST RESULTS

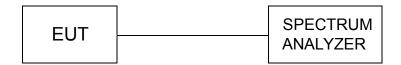
Mode	Channel	Peak Power Output (dBm)	Peak Power Limit (dBm)	PASS / FAIL	
	1	18.14	30	PASS	
802.11b	6	18.18	30	PASS	
	1	18.22	30	PASS	
	1	17.08	30	PASS	
802.11g	6	17.15	30	PASS	
	1	17.22	30	PASS	
802.11n	1	16.29	30	PASS	
HT20	6	16.32	30	PASS	
11120	1	16.38	30	PASS	
802.11n	3	15.39	30	PASS	
HT40	6	15.41	30	PASS	
11140	9	15.50	30 10	PASS	

Note: The test results including the cable lose.

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4.5. Band Edge Measurement

TEST CONFIGURATION



TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 and FCC KDB Publication No. KDB558074 D01 v03r01 (Measurement Guidelines of DTS) with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW and VBW to 100 kHz, to measure the conducted peak band edge.

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).

- Span: Set Span for minimum 50 MHz Reference Level: 110 dB μ V (corrected for gains and losses of test antenna factor, preamp gain and cable loss) Attenuation: 10 dB
- Sweep Time: Coupled Resolution Bandwidth: Up to and including 1 GHz = ≥ 100 kHz
- Resolution Bandwidth: Above 1 GHz = 1 MHz Video Bandwidth: Below 1 GHz = 300 kHz
- Video Bandwidth: Up to and including 1 GHz = ≥ 3 MHz for peak and 10 Hz for average
- Detector: Peak

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

LIMIT

- 1. Below -20dB of the highest emission level in operating band.
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209(see Section 15.205(c)).

Frequency (MHz)	Limit Average (dBuv/m)	Limit Peak (dBuv/m)
Below 2390 or Above 2483.5	54	74

TEST RESULTS

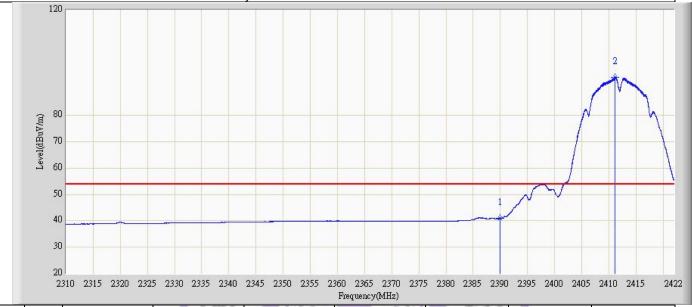
Engineer: Milo	
Site: AC5	Time: 2013/07/23 -09:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V

Note: Mode 1: Transmit at channel 2412MHz by 802.11b

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	52.258	24.576	-21.742	74.000	27.682	PK
2	*	2411.892	99.062	71.292	N/A	N/A	27.769	PK
			zhen CTLY	ectroma	agnetic	BCHUO O		

Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 09:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V

Note: Mode 1: Transmit at channel 2412MHz by 802.11b

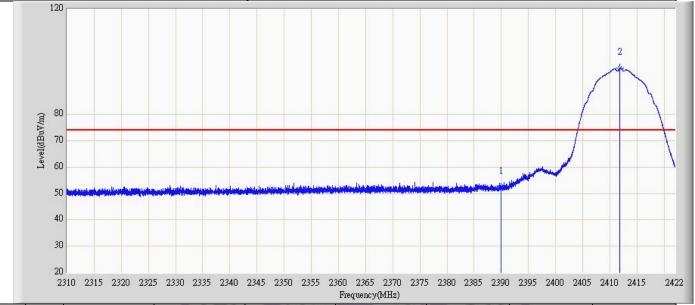


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	40.954	13.272	-13.046	54.000	27.682	AV
2	*	2411.066	94.402	66.636	N/A	N/A	27.766	AV



Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 09:41	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical	
EUT: Tablet PC	Power: DC 3.7V	

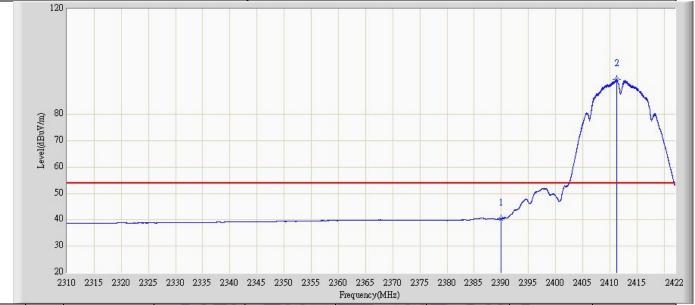
Note: Mode 1: Transmit at channel 2412MHz by 802.11b



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	52.378	24.696	-21.622	74.000	27.682	PK
2	*	2411.892	97.544	69.774	N/A	N/A	27.769	PK



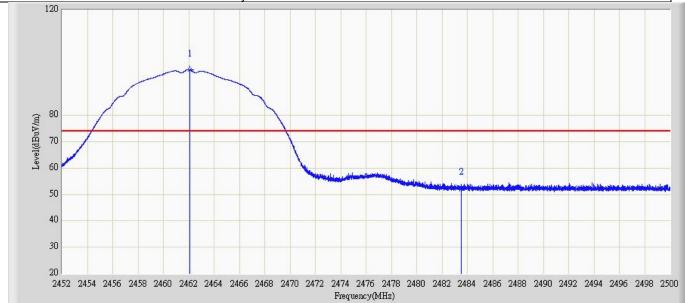
Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 09:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	40.477	12.795	-13.523	54.000	27.682	AV
2	*	2411.248	93.139	65.372	N/A	N/A	27.767	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2462.104	97.341	69.365	N/A	N/A	27.976	PK
2		2483.500	52.333	24.276	-21.667	74.000	28.057	PK



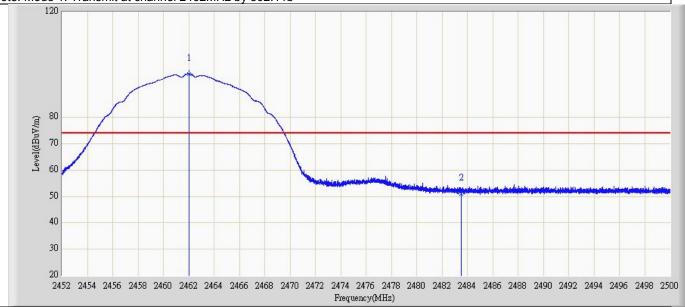
Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



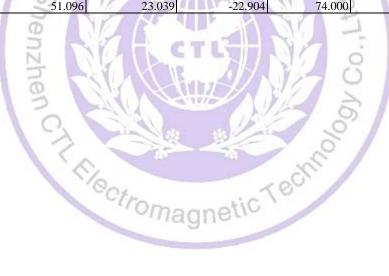
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.186	92.528	64.555	N/A	N/A	27.973	AV
2		2483.500	39.809	11.752	-14.191	54.000	28.057	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2462.032	96.574	68.598	N/A	N/A	27.976	PK
2		2483.500	51.096	23.039	-22.904	74.000	28.057	PK

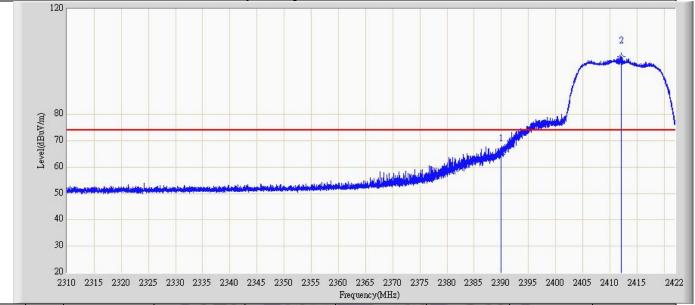


Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 10:10	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical	
EUT: Tablet PC	Power: DC 3.7V	

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.354	91.713	63.740	N/A	N/A	27.974	AV
2		2483.500	39.792	11.735	-14.208	54.000	28.057	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	64.722	37.040	-9.278	74.000	27.682	PK
2	*	2412.116	101.962	74.191	N/A	N/A	27.770	PK



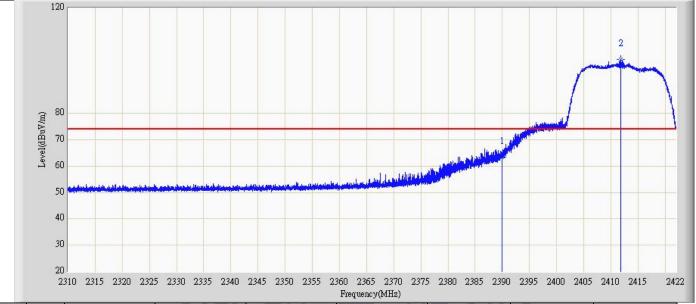
Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	46.839	19.157	-7.161	54.000	27.682	AV
2	*	2411.248	83.924	56.157	N/A	N/A	27.767	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



	No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
	1		2390.000	63.364	35.682	-10.636	74.000	27.682	PK
ſ	2	*	2411.766	100.433	72.664	N/A	N/A	27.769	PK



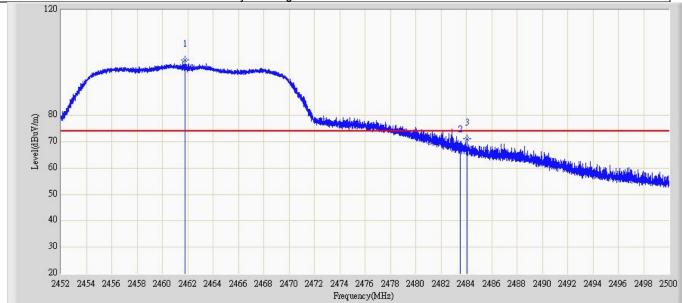
Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	45.870	18.188	-8.130	54.000	27.682	AV
2	*	2410.968	81.969	54.203	N/A	N/A	27.766	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.792	100.942	72.967	N/A	N/A	27.975	PK
2		2483.500	68.540	40.483	-5.460	74.000	28.057	PK
3		2484.088	71.130	43.071	-2.870	74.000	28.059	PK
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Engineer: Milo		
Site: AC5	Time: 2013/07/23 -10:41	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal	
EUT: Tablet PC	Power: DC 3.7V	



N	o Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
	1 *	2461.282	81.521	53.548	N/A	N/A	27.973	AV
	2	2483.500	47.724	19.667	-6.276	54.000	28.057	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.624	99.306	71.331	N/A	N/A	27.975	PK
2		2483.500	67.647	39.590	-6.353	74.000	28.057	PK
3		2483.752	70.236	42.178	-3.764	74.000	28.058	PK
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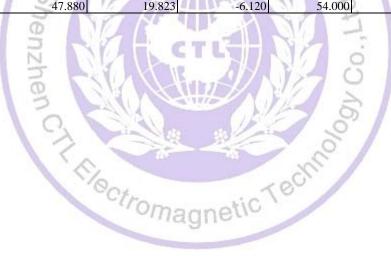
2452 2454 2456 2458 2460 2462 2464 2466 2468 2470 2472 2474 2476 2478 2480 2482 2484 2486 2488 2490 2492 2494 2496 2498 2500 Frequency(MHz)

20

Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.438	81.660	53.686	N/A	N/A	27.974	AV
2		2483.500	47.880	19.823	-6.120	54.000	28.057	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V

Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)

2
2
3
60
50
40
30
20
2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405 2410 2415 2422

Frequency(MHz)

No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	65.288	37.606	-8.712	74.000	27.682	PK
2	*	2411.612	99.036	71.267	N/A	N/A	27.768	PK



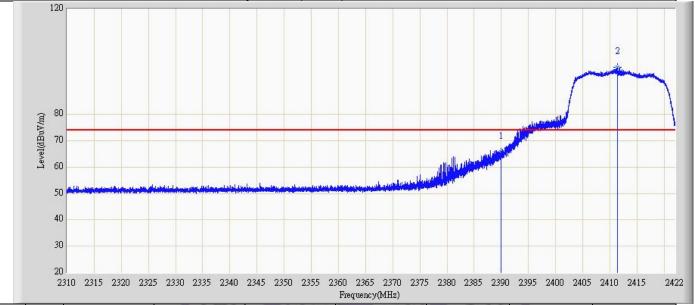
Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	45.122	17.440	-8.878	54.000	27.682	AV
2	*	2411.234	81.400	53.633	N/A	N/A	27.767	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 10:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	65.761	38.079	-8.239	74.000	27.682	PK
2	*	2411.360	97.935	70.167	N/A	N/A	27.767	PK



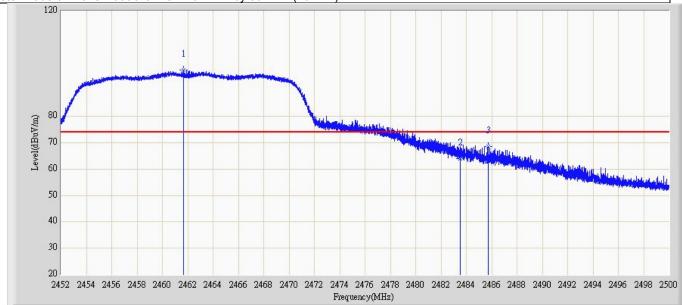
Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1		2390.000	43.590	15.908	-10.410	54.000	27.682	AV
2	*	2411.234	79.810	52.043	N/A	N/A	27.767	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23- 12:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.648	97.647	69.672	N/A	N/A	27.975	PK
2		2483.500	63.916	35.859	-10.084	74.000	28.057	PK
3		2485.702	68.684	40.618	-5.316	74.000	28.066	PK
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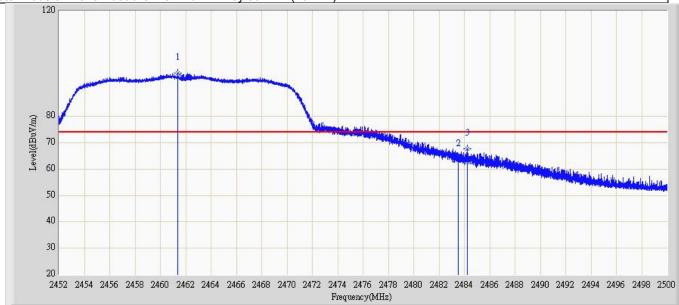
Engineer: Milo	
Site: AC5	Time: 2013/07/23- 12:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2462.722	79.199	51.220	N/A	N/A	27.979	AV
2	2	2483.500	44.077	16.020	-9.923	54.000	28.057	AV



Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 12:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.396	96.476	68.502	N/A	N/A	27.974	PK
2		2483.500	63.543	35.486	-10.457	74.000	28.057	PK
3		2484.232	67.839	39.779	-6.161	74.000	28.060	PK
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Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 12:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Туре
1	*	2461.294	78.231	50.258	N/A	N/A	27.973	AV
2		2483.500	42.725	14.668	-11.275	54.000	28.057	AV



Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 11:59	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal	
EUT: Tablet PC	Power: DC 3.7V	

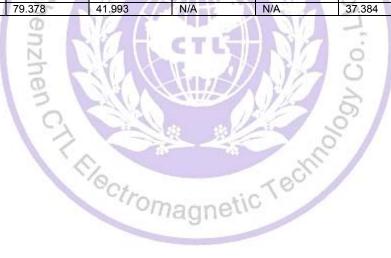
Note: Mode4: Transmit at channel 2422MHz by 802.11n40MHz Level(dBuV/m) 00 04 08 Frequency(MHz)

Ma rk	Frequency (MHz)	Measure Level	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
	2388 036		22 222		74.000	37 150	PK
							PK
*							PK
		0	860			160%	
			E/OCI		Techn		
			Clin	- 11	0 1		
	rk	rk (MHz) 2388.936 2390.000	rk (MHz) Level (dBuV/m) 2388.936 70.473 2390.000 68.254 * 2419.032 101.386	rk (MHz) Level (dBuV/m) (dBuV) 2388.936 70.473 33.323 2390.000 68.254 31.095 * 2419.032 101.386 63.972	rk (MHz) Level (dBuV) (dB) (dB) 2388.936 70.473 33.323 -3.527 2390.000 68.254 31.095 -5.746 * 2419.032 101.386 63.972 N/A	rk (MHz) Level (dBuV/m) (dB) (dBuV/m) (rk (MHz) Level (dBuV/m) (dBuV) (dB) (dBuV/m) 2388.936 70.473 33.323 -3.527 74.000 37.150 2390.000 68.254 31.095 -5.746 74.000 37.159 * 2419.032 101.386 63.972 N/A N/A 37.414

Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 13:09	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal	
EUT: Tablet PC	Power: DC 3.7V	

Note: Mode4: Transmit at channel 2422MHz by 802.11n40MHz Level(dBuV/m) 00 04 Frequency(MHz)

No	Fla g	Ma rk	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
1			2390.000	48.219	11.060	-5.781	54.000	37.159	AV
2		*	2415.666	79.378	41.993	N/A	N/A	37.384	AV



Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 13:10	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical	
EUT: Tablet PC	Power: DC 3.7V	

Note: Mode4: Transmit at channel 2422MHz by 802.11n40MHz Level(dBuV/m) 00 00 Frequency(MHz)

No	Fla g	Ma rk	Frequency (MHz)	Measure Level	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
				(dBuV/m)	1411	COUNTY OF	41.00		
1			2388.936	66.969	30.475	-7.031	74.000	36.494	PK
2			2390.000	64.520	28.021	-9.480	74.000	36.499	PK
3		*	2420.484	97.122	60.477	N/A	N/A	36.645	PK
				zhen CTL	Electrom	agneti	cTechn	0/00/n	

Engineer: Milo	
Site: AC5	Time: 2013/07/23 - 13:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: Tablet PC	Power: DC 3.7V

Note: Mode4: Transmit at channel 2422MHz by 802.11n40MHz Level(dBuV/m) 00 04 08 Frequency(MHz)

No	Fla g	Ma rk	Frequency (MHz)	Measure Level	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
1			2390.000	(dBuV/m) 45.771	9.272	-8.229	54.000	36.499	AV
2		*	2420.352	76.404	39.759	N/A	N/A	36.645	AV
		<u> </u>	2120.002	en		CTL	A SY	7.0	
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					rom	agneti	C ,		
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Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 13:13	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal	
EUT: Tablet PC	Power: DC 3.7V	

Note: Mode4: Transmit at channel 2452MHz by 802.11n40MHz Level(dBuV/m) 2432 2435 Frequency(MHz)

No Fla	Ma rk	Frequency (MHz)	Measure Level	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
	*	2450.496	(dBuV/m) 100.969	63.282	N/A	N/A	37.687	PK
2		2483.500	67.101	29.131	-6.899	74.000	37.969	PK
3		2487.352	69.660	31.656	-4.340	74.000	38.004	PK
			nzhen CT	Electrom			160/0	
				60	75.01	0		

Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 13:15	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal	
EUT: Tablet PC	Power: DC 3.7V	

Note: Mode4: Transmit at channel 2452MHz by 802.11n40MHz Level(dBuV/m) 2432 2435 Frequency(MHz)

No	Fla g	Ma rk	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
1		*	2454.270	79.245	41.527	N/A	N/A	37.717	AV
2			2483.500	46.743	8.773	-7.257	54.000	37.969	AV
				nzhen CTL	Electrom	agneti	cTechn	70/09y Cc	

Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 13:16	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical	
EUT: Tablet PC	Power: DC 3.7V	

Note: Mode4: Transmit at channel 2452MHz by 802.11n40MHz Level(dBuV/m) 2432 2435 Frequency(MHz)

No	Fla g	Ma rk	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
1		*	2455.018	98.088	61.284	N/A	N/A	36.804	PK
2			2483.500	63.912	26.976	-10.088	74.000	36.935	PK
3			2487.182	66.766	29.813	-7.234	74.000	36.954	PK
				zhen CTL	Electrom	agneti	CTECHE	0/60/0	

Engineer: Milo		
Site: AC5	Time: 2013/07/23 - 13:18	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical	
EUT: Tablet PC	Power: DC 3.7V	

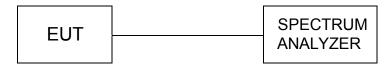
Note: Mode4: Transmit at channel 2452MHz by 802.11n40MHz Level(dBuV/m) 2432 2435 Frequency(MHz)

(dBuV/m)	No	Fla g	Ma rk	Frequency (MHz)	Measure Level	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Туре
2 2483.500 43.633 6.697 -10.367 54.000 36.935 AV				0.1.0.1.1		4 4 / 4		11.34	20 - 22 -	100
enzhen enzhen	•		*							
The state of the s	2			2483.500	43.633	6.697	-10.367	54.000	36.935	AV
Clar Nic					130				109y C	

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4.6. Power Spectral Density Measurement

TEST CONFIGURATION



TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r01 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, VBW≥10KHz, SPAN to 1.5 times greater than the EBW,.

LIMIT

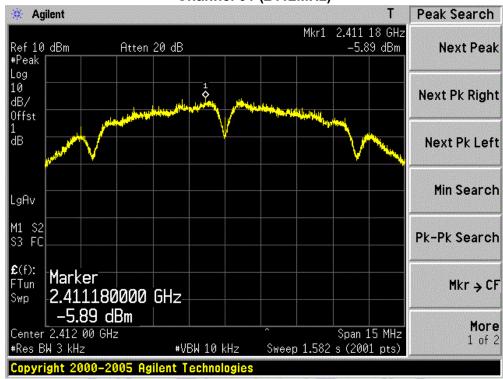
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

Product	Tablet PC
Test Item	Power Spectral Density
Test Mode	Mode 1: Transmit by 802.11b

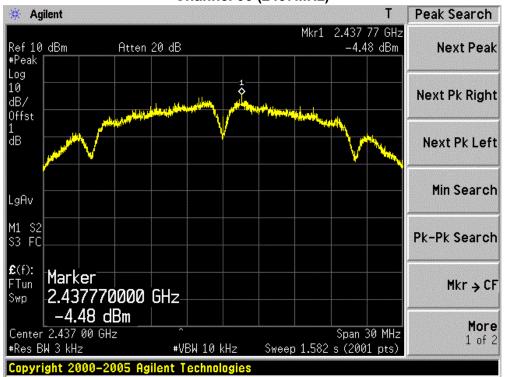
Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
01	2412	-5.89	8	Pass
06	2437	-4.48	8	Pass
11	2462	-6.62	8 8	Pass
11	70	romagne)	nno	Pass

Channel 01 (2412MHz)

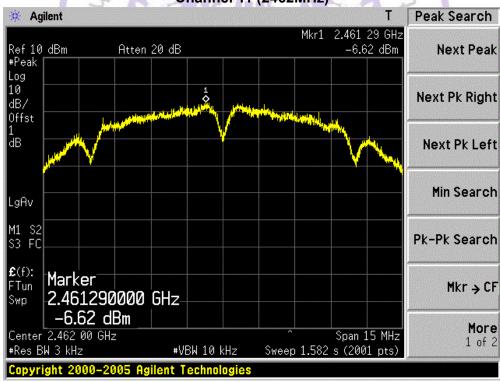




Channel 06 (2437MHz)

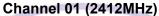


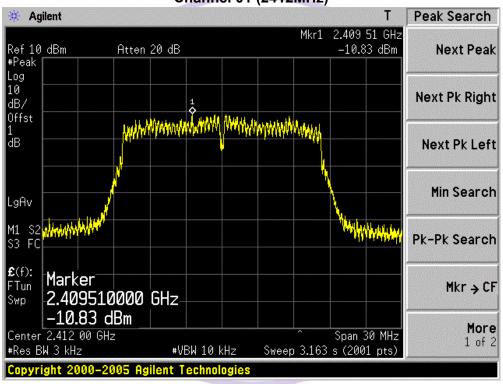
Channel 11 (2462MHz)



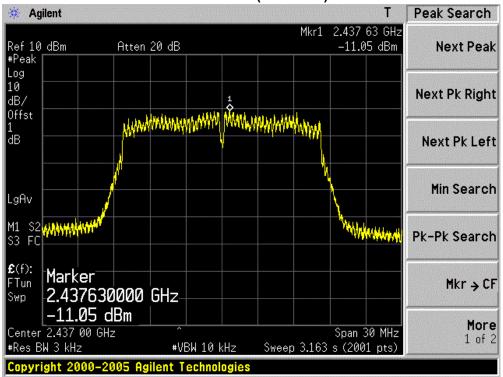
Product	Tablet PC
Test Item	Power Spectral Density
Test Mode	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Reading Value (dBm)	Limit (dBm)	Result
01	2412	-10.83	8	Pass
06	2437	-11.05	8	Pass
11	2462	-10.54	8	Pass

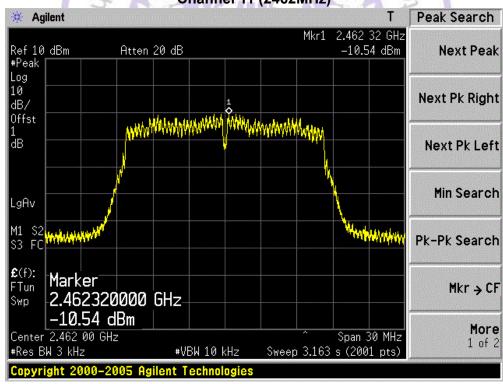




Channel 06 (2437MHz)

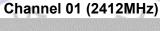


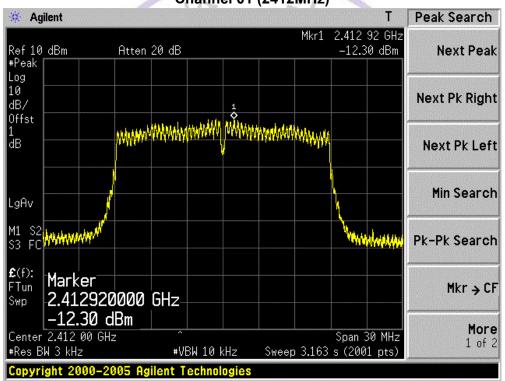
Channel 11 (2462MHz)



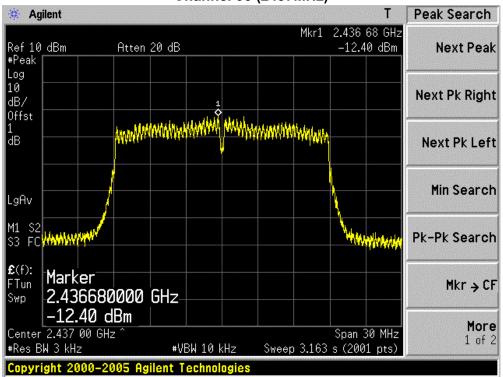
Product	Tablet PC
Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
01	2412	-12.30	8	Pass
06	2437	-12.40	8	Pass
11	2462	-12.08	8	Pass

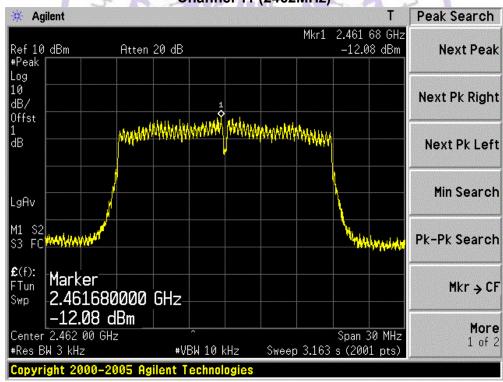




Channel 06 (2437MHz)

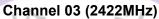


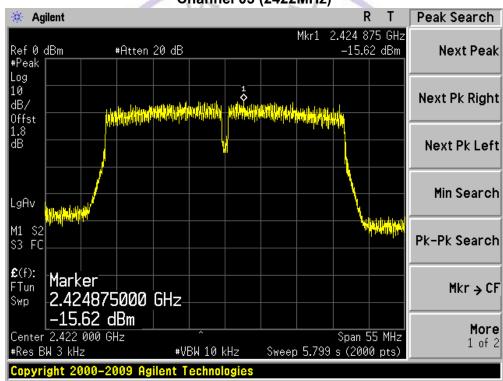
Channel 11 (2462MHz)

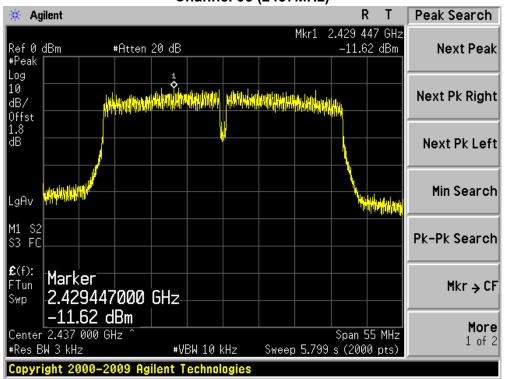


Product	Tablet PC
Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n (40MHz)

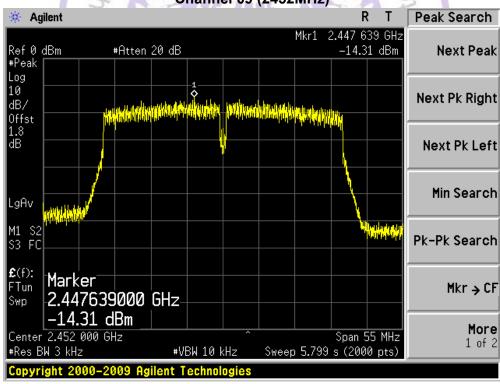
Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
03	2422	-15.62	8	Pass
06	2437	-11.62	8	Pass
09	2452	-14.31	8	Pass







Channel 09 (2452MHz)



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4.7. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r01 for compliance to FCC 47CFR 15.247 requirements. The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength, and measure frequeny range from 30MHz to 26.5GHz.

LIMIT

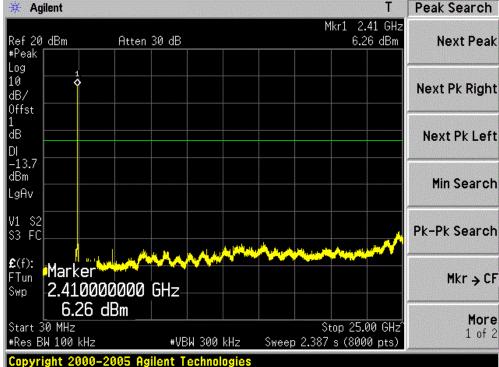
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

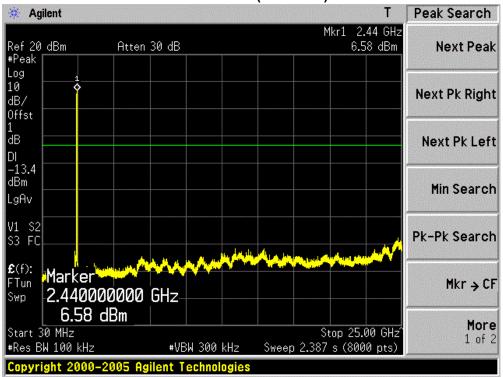
TEST RESULTS

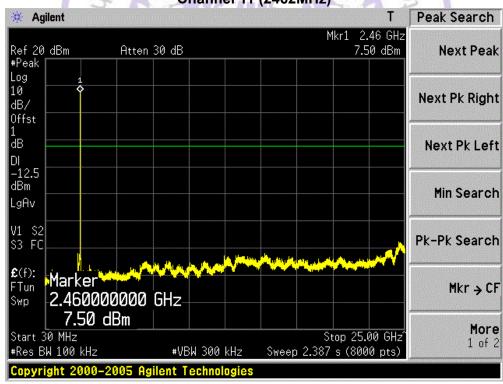
Photos of Spurious RF Conducted Emission Measurement

Product	Tablet PC
Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 1: Transmit by 802.11b

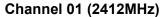


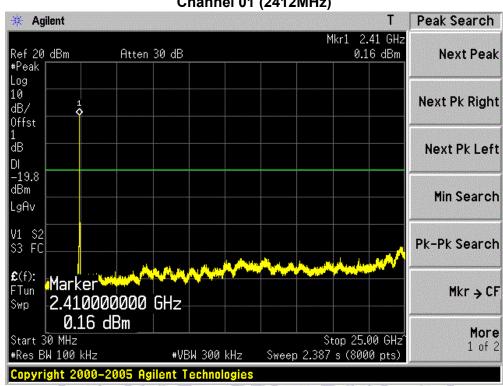




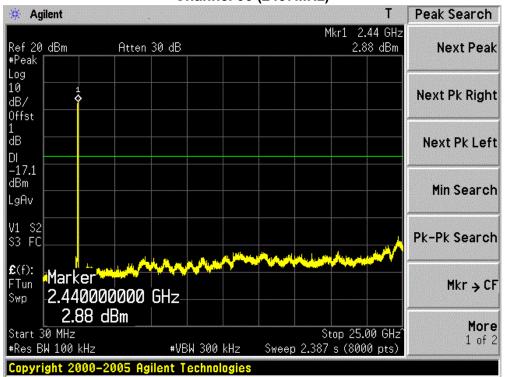


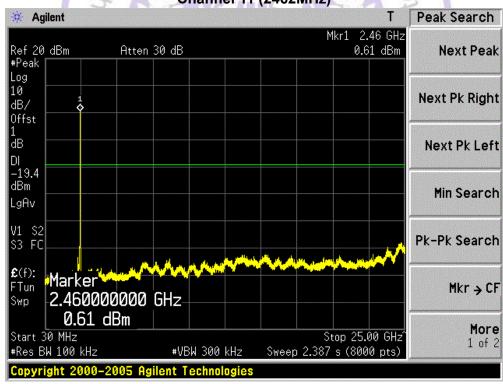
Product	Tablet PC
Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 2: Transmit by 802.11g





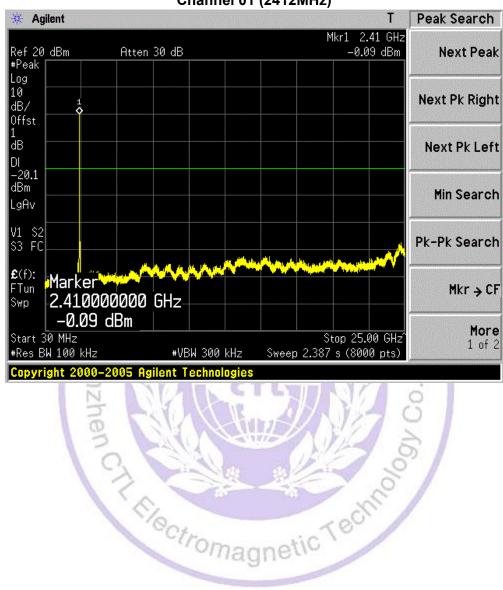
The Ctromagnetic Technology

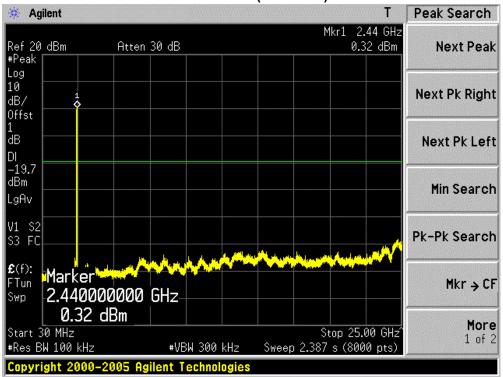


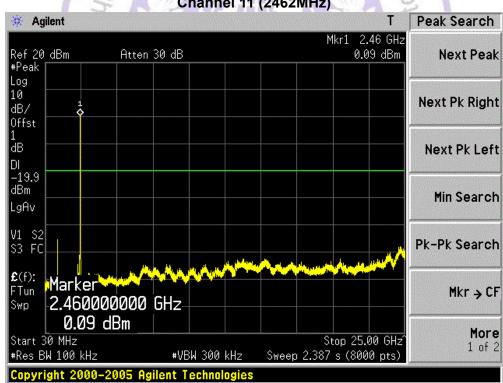


Product	Tablet PC
Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

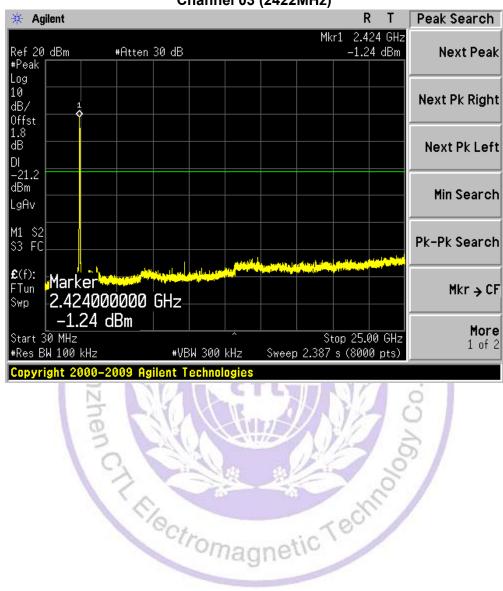


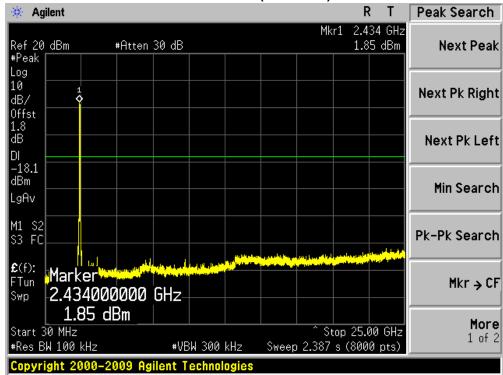




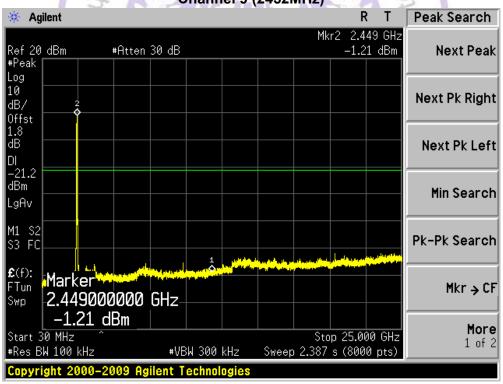
Product	Tablet PC
Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 4: Transmit by 802.11n(40MHz)

Channel 03 (2422MHz)





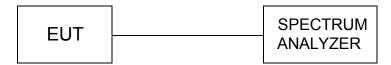
Channel 9 (2452MHz)



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4.8. Operation Frequency Range of 20dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

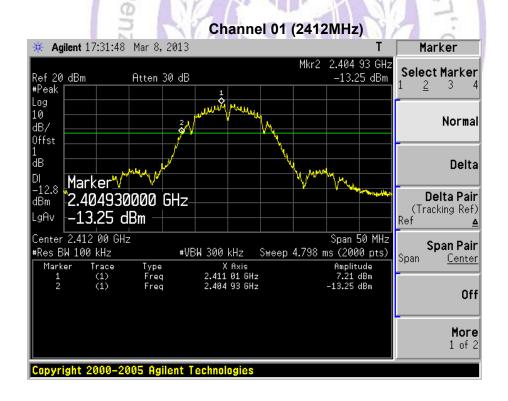
The EUT was tested according to KDB558074 D01 v03r01 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Span greater than RBW.

LIMIT

20 dB bandwidth of the emission is contained within the operation frequency band.

TEST RESUTL

Product		Tablet PC
Test Item	• •	Operation Frequency Range of 20dB Bandwidth
Test Site	• •	TR-8
Test Mode		Mode 1: Transmit by 802.11b

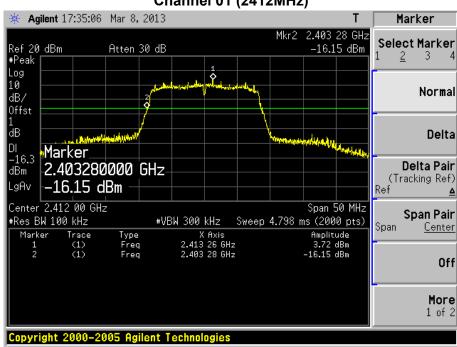






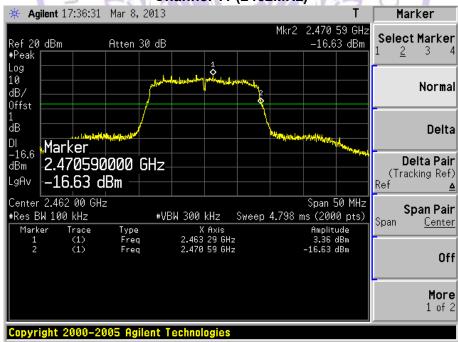
Product		Tablet PC
Test Item	• •	Operation Frequency Range of 20dB Bandwidth
Test Site		TR-8
Test Mode		Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)



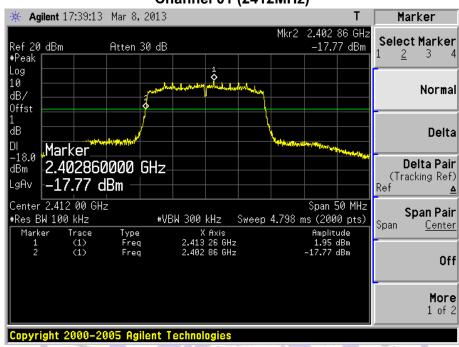
Channel 11 (2462MHz)

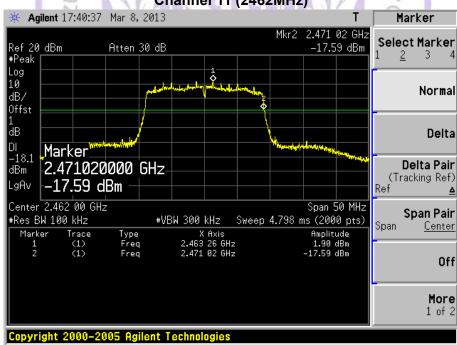
CTLT



Product	:	Tablet PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode		Mode 3: Transmit by 802.11n (20MHz)

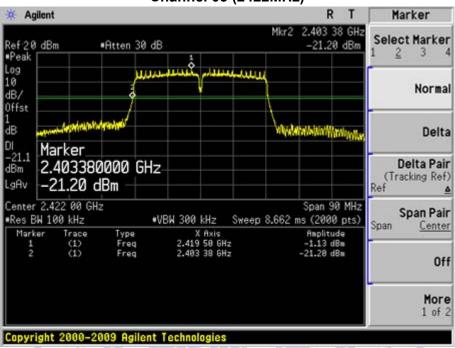
Channel 01 (2412MHz)



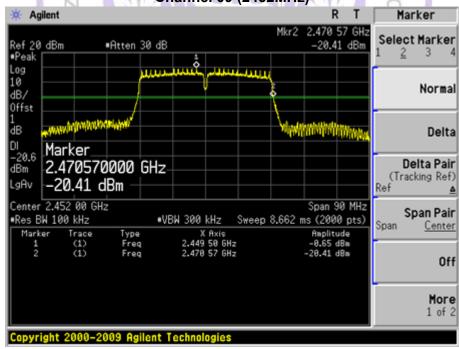


Product	:	Tablet PC
Test Item	• •	Operation Frequency Range of 20dB Bandwidth
Test Site	• •	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



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4.9. Antenna Requirement

STANDARD APPLICABLE

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 (c), 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.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

ANTENNA CONNECTED CONSTRUCTION

The directional gains of antenna used for transmitting is -2.0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.



5. Test Setup Photos of the EUT











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6. External and Internal Photos of the EUT

External Photos of EUT

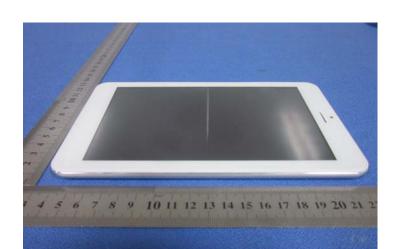














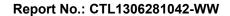
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Internal Photos of EUT

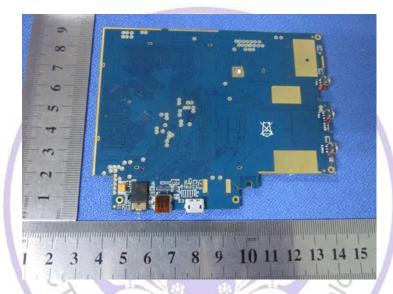












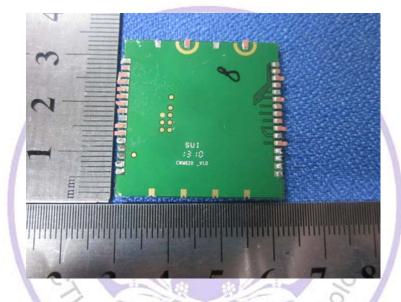














.....End of Report.....