Report No.: AGCW0E121101F2 Page 1 of 61

FCC Test Report

Report No.: AGCW0E121101F2

FCC ID : Y7WPLUMZ600

PRODUCT DESIGNATION: Link Tablet PC

BRAND NAME : plum

MODEL NAME : Z600

CLIENT : CLC Hong Kong Limited

DATE OF ISSUE : Dec. 05, 2012

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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VERIFICATION OF COMPLIANCE

Analisant	CLC Hong Kong Limited
Applicant	2209,Concordia Plaza, North Tower, No.1 Science Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong
	CLC Technology Co., Ltd.
Manufacturer	Room 303, Block 31, Longtang Industrial Zone, Longtang Community, Minzhi Street, Bao'an District, Shenzhen, China
Product Designation	Link Tablet PC
Brand Name	plum
Model Name	Z600
FCC ID	Y7WPLUMZ600
Report Number	AGCW0E121101F2
Date of Test	Nov.19,2012 to Dec. 05, 2012

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.

Test By: ______ Jane Wu Dec. 05, 2012

Reviewed By:

Forrest Lei Dec. 05, 2012

Authorized By:

Solger Zhang Dec. 05, 2012

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is designed as a "Wifi Device". 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

Operation Frequency	2.412 GHz to 2.462GHz
Max. Output Power	11b:10.42dBm,11g:10.25dBm,11n(20):9.32dBm,11n(40):8.98dBm
Modulation	CCK,OFDM,BPSK,DPSK,16-QAM,64-QAM
Data Rate	DSSS(1/2/5.5/11),OFDM(6/9/12/18/24/36/48/54) See section 1.3 for 802.11n
Number of channels	11
Antenna Designation	Integrated Antenna
Antenna Gain	Antenna (max): 1.0dBi
Power Supply	DC 3.7V by lithium battery

1.2 TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2412MHZ
	2	2417MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
0.400 0.400 51.41.17	6	2437 MHZ
2400~2483.5MHZ	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462MHZ

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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1.3 IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS NDBPS		Data rat 800	e(Mbps) nsGl		
muox		modulation			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	486	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	

1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: Y7WPLUMZ600**, filing to comply with the FCC Part 15 requirements.

1.5 TEST METHODOLOGY

Because the EUT received power from DC3.7V lithium battery, so only 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.

1.6 TEST FACILITY

The test site used to collect the radiated data is located on the address of Attestation of Global Compliance (Shenzhen) Co., Ltd.

1&2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District,

Shenzhen, China

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and IC requirements in documents RS212.

FCC register No.: 259865

1.7 SPECIAL ACCESSORIES

Refer to section 2.2.

1.8 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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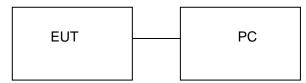
2. SYSTEM TEST CONFIGURATION

2.1 CONFIGURATION OF EUT SYSTEM

Configure1: (Normal hopping)



Configure2: (continuous TX)



Note: the EUT controlled by PC to work in continuous TX mode and Normal hopping mode.

2.2 EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Equipment Mfr/Brand		Remark
1	1 Link Tablet PC plum		Z600	EUT
2	Adapter	plum	HT-001-050200	Accessory
3	PC Dell		Inpiron N4110	A.E

Note: the following "EUT" in setup diagram means EUT system.

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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.

4. DESCRIPTION OF TEST MODES

TEST MODES
Low Channel(TX)
Middle Channel(TX)
High Channel(TX)
Normal (Wi-Fi)

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.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable modes.

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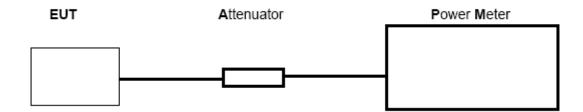
5. PEAK OUTPUT POWER

5.1 MEASUREMENT PROCEDURE

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to power meter through an RF attenuator
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Set the RBW greater than 6DB bandwidth of emission.
- 5. Record the maximum power from the power meter.
- 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.

5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



5.3 MEASUREMENT EQUIPMENT USED

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Power meter	R&S	NRP-Z23	N/A	07/18/2012	07/17/2013
RF attenuator	N/A	RFA20db	N/A	N/A	N/A
AGILENT	Agilent	E4440A	N/A	07/18/2012	07/17/2013

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5.4 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	9.58	10.34	30	Pass
2.437	9.45	10.42	30	Pass
2.462	9.37	10.29	30	Pass

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	9.24	10.18	30	Pass	
2.437	9.31	10.25	30	Pass	
2.462	9.16	10.09	30	Pass	

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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	8.42	9.21	30	Pass	
2.437	8.25	9.14	30	Pass	
2.462	8.31	9.32	30	Pass	

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	7.83	8.76	30	Pass		
2.437	7.88	8.82	30	Pass		
2.452	8.02	8.98	30	Pass		

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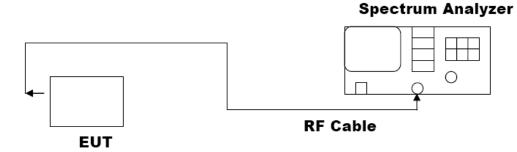
6. 6 DB BANDWIDTH

6.1 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.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥RBW.
- 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.

6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



6.3 MEASUREMENT EQUIPMENT USED

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	07/18/2012	06/17/2013
RF attenuator	N/A	RFA20db	N/A	N/A	N/A

6.4 LIMITS AND MEASUREMENT RESULTS

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

LIMITS AND MEASUREMENT RESULT				
Applicable Limite	Measurement Result			
Applicable Limits	Test Data (MHz)		Criteria	
	Low Channel	10.099	PASS	
>500KHZ	Middle Channel	10.094	PASS	
	High Channel	10.079	PASS	

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

LIMITS AND MEASUREMENT RESULT				
Applicable Limite	Measurement Result			
Applicable Limits	Test Data (MHz)		Criteria	
	Low Channel	16.539	PASS	
>500KHZ	Middle Channel	16.523	PASS	
	High Channel	16.534	PASS	

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

LIMITS AND MEASUREMENT RESULT			
Applicable Limite	Measurement Result		
Applicable Limits	Test Data	Criteria	
	Low Channel	17.700	PASS
>500KHZ	Middle Channel	17.659	PASS
	High Channel	17.673	PASS

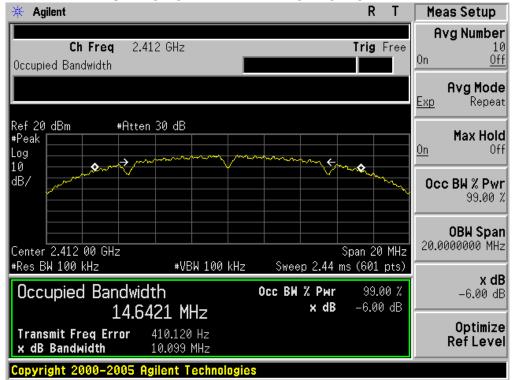
TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
Applicable Littlis	Test Da	Criteria	
	Low Channel	36.406	PASS
>500KHZ	Middle Channel	36.428	PASS
	High Channel	36.427	PASS

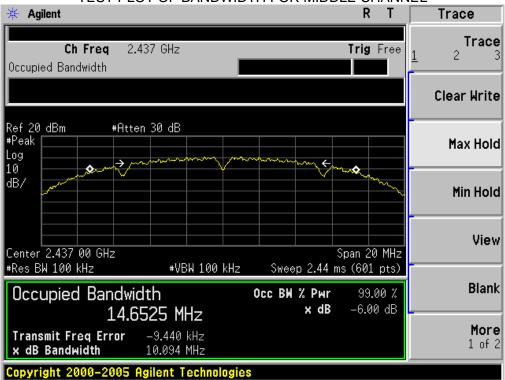
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802.11b TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

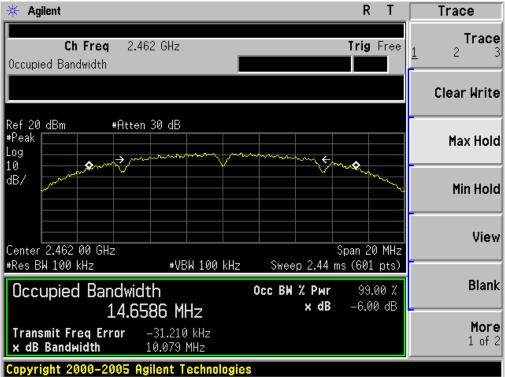


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



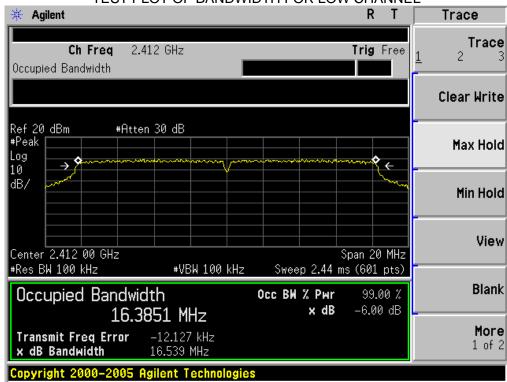
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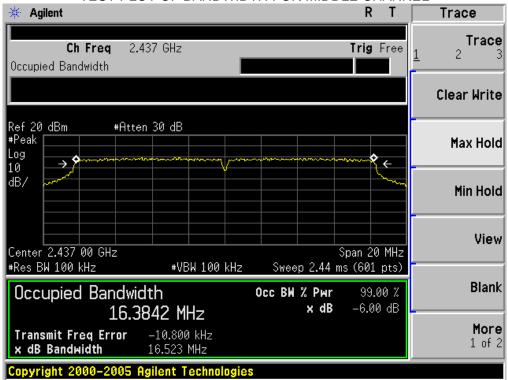
802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

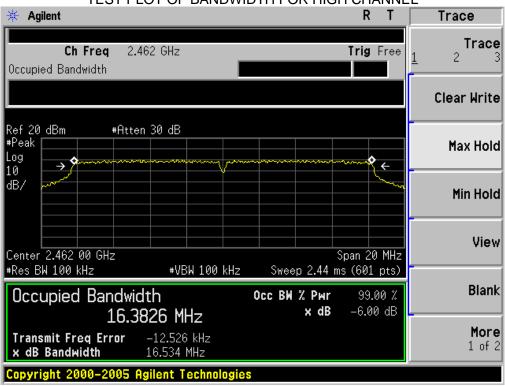


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



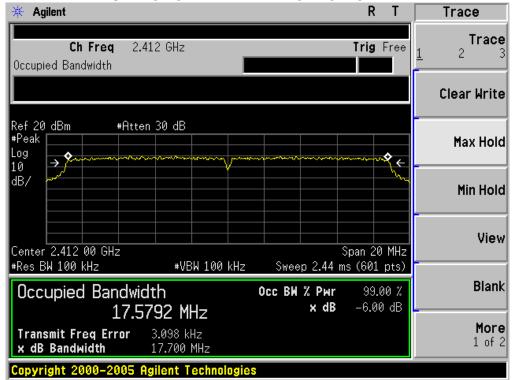
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



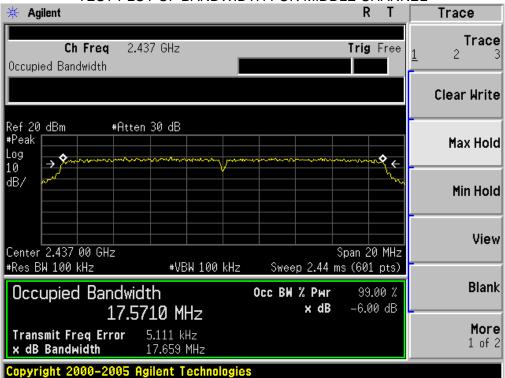
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802. 11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

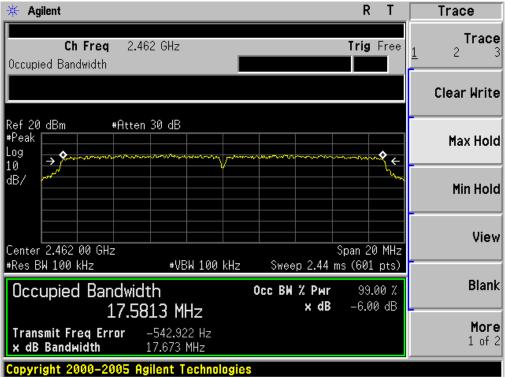


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



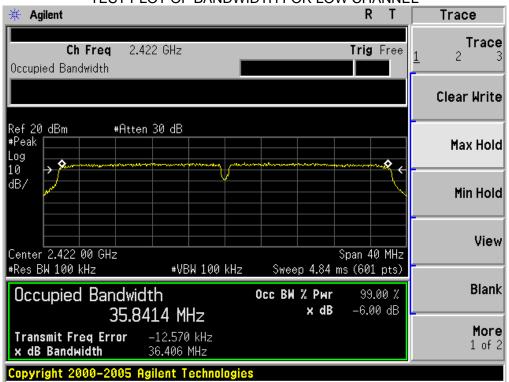
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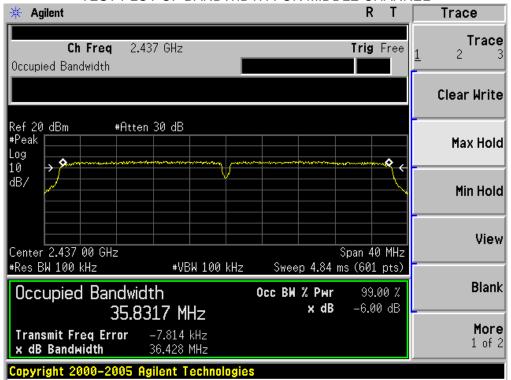
802.11n 40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

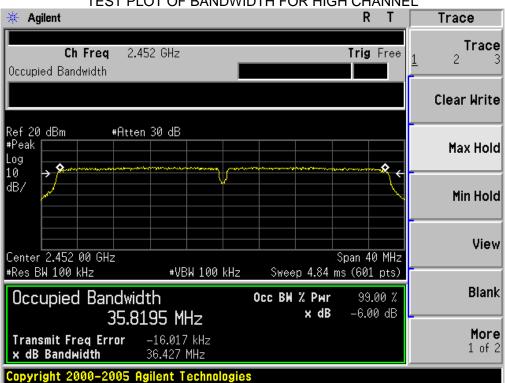


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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7. CONDUCTED SPURIOUS EMISSION

7.1 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.

7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 6.2

7.3 MEASUREMENT EQUIPMENT USED

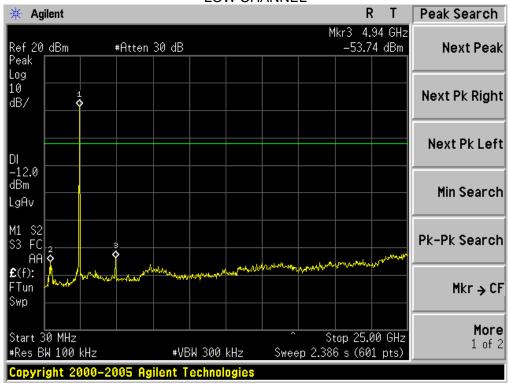
The same as described in section 6.3

7.4 LIMITS AND MEASUREMENT RESULT

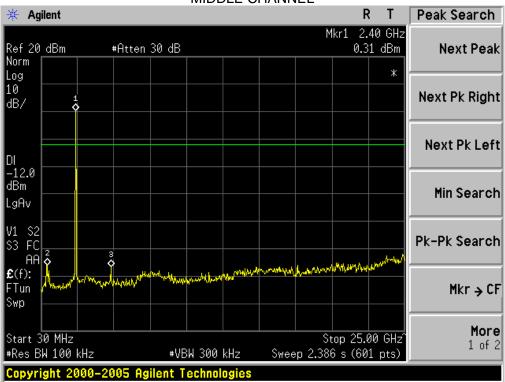
LIMITS AND MEASUREMENT RESULT			
Applicable Limite	Measurement Result		
Applicable Limits	Test Data	Criteria	
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall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

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

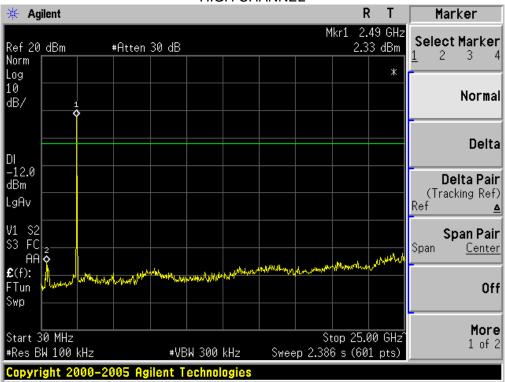


MIDDLE CHANNEL



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HIGH CHANNEL



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8. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

8.1 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, VBW \geqslant 300KHz, SPAN to 5-30 % greater than the EBW, Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (3 kHz/100kHz = -15.2 dB).

8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 6.2

8.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.3

8.4 LIMITS AND MEASUREMENT RESULT

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

Channel No.	Reading Value	BWCF	PSD	Limit	Result
	(dBm)	(dB)	(dBm)	(dBm)	
Low Channel	1.01	-15.2	-14.19	8	Pass
Middle Channel	0.01	-15.2	-15.19	8	Pass
High Channel	1.28	-15.2	-13.92	8	Pass

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

Channel No.	Reading Value	BWCF	PSD	Limit	Result
	(dBm)	(dB)	(dBm)	(dBm)	
Low Channel	-0.74	-15.2	-15.94	8	Pass
Middle Channel	-1.07	-15.2	-16.27	8	Pass
High Channel	-0.41	-15.2	-15.61	8	Pass

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

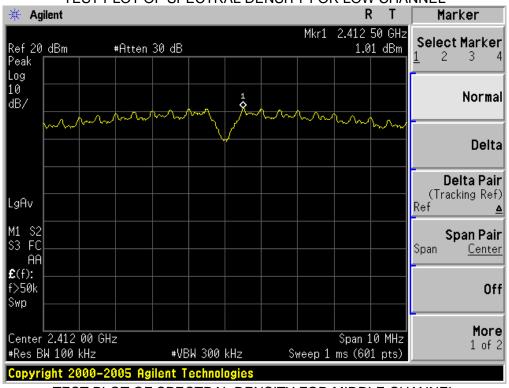
Channel No.	Reading Value	BWCF	PSD	Limit	Result
	(dBm)	(dB)	(dBm)	(dBm)	
Low Channel	-0.05	-15.2	-15.25	8	Pass
Middle Channel	-0.79	-15.2	-15.99	8	Pass
High Channel	-1.25	-15.2	-16.45	8	Pass

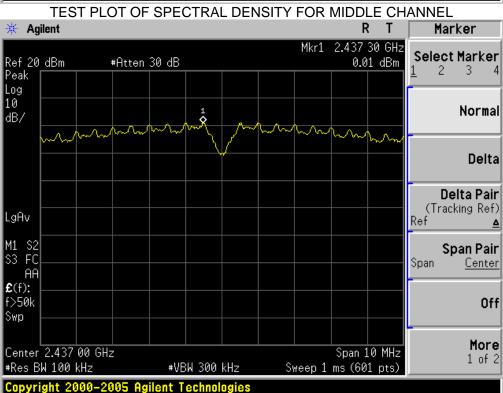
TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

Channel No.	Reading Value	BWCF	PSD	Limit	Result
	(dBm)	(dB)	(dBm)	(dBm)	
Low Channel	-4.39	-15.2	-19.59	8	Pass
Middle Channel	-3.93	-15.2	-19.13	8	Pass
High Channel	-4.28	-15.2	-19.48	8	Pass

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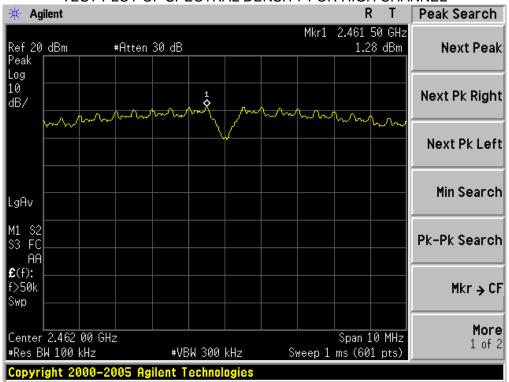
802.11b TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



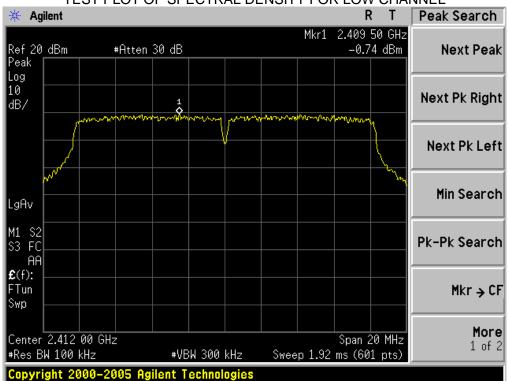


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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

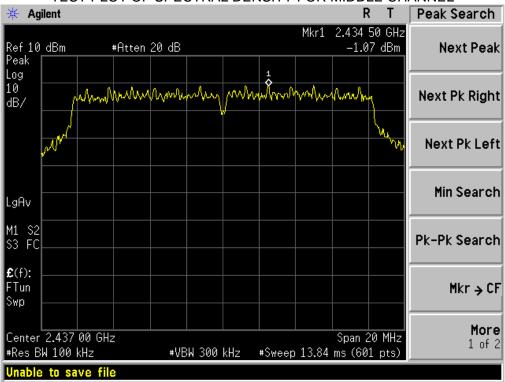


802.11g TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

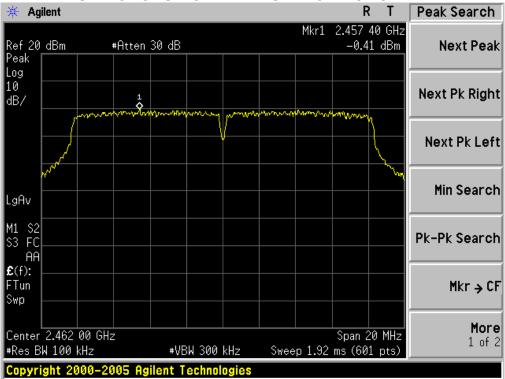


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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



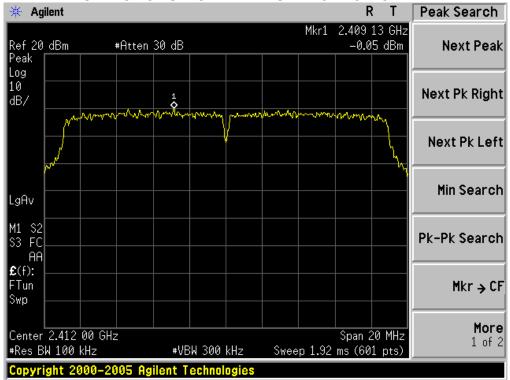
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



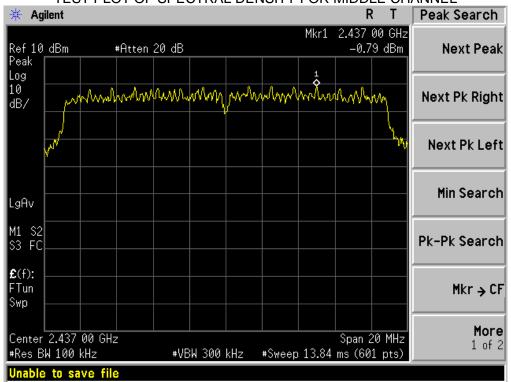
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802.11n 20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

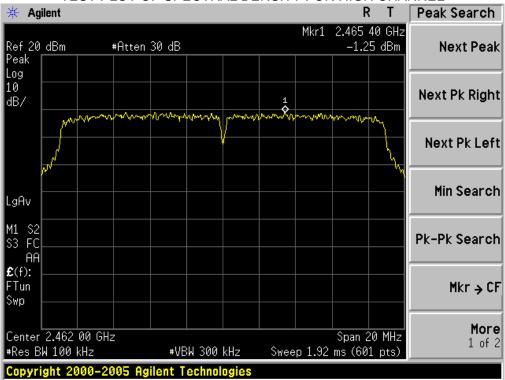


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



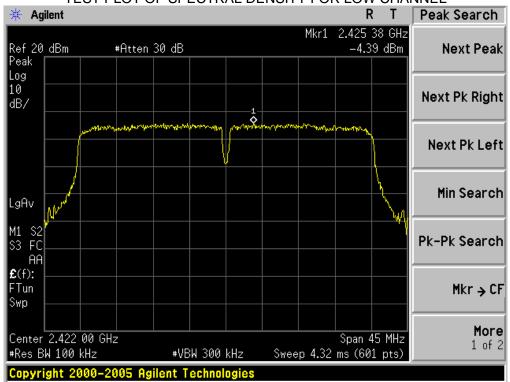
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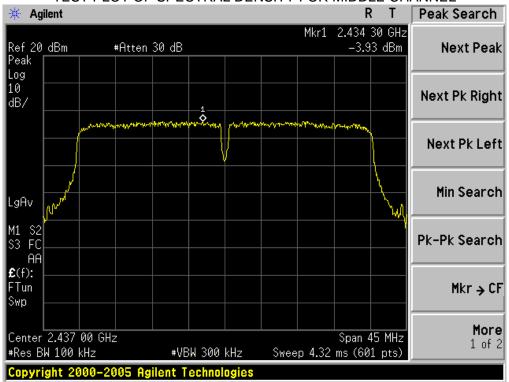
802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

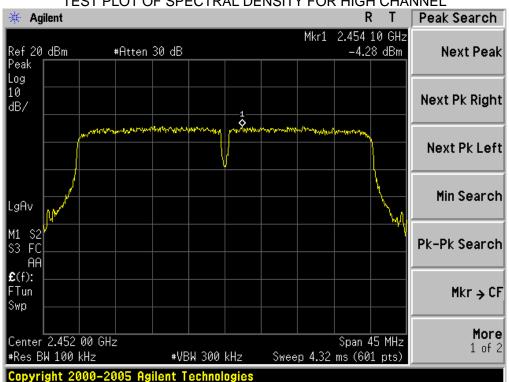


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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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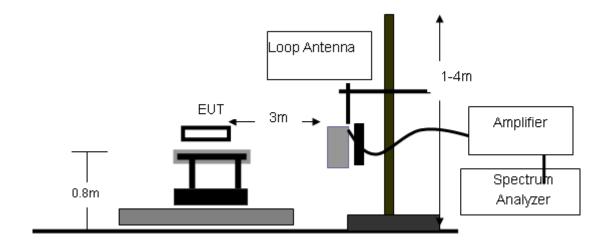
9. RADIATED EMISSION MEASUREMENT

9.1 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 1M to 4M)and then the turntable was Rotated(from 0 degree to 360degrees) 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 emission 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 seconds interval during which the field strength is at its maximum value.
- 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 3dB 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.

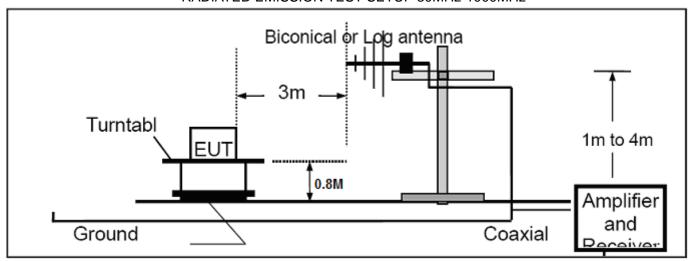
9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

RADIATED EMISSION TEST SETUP BELOW 30MHz

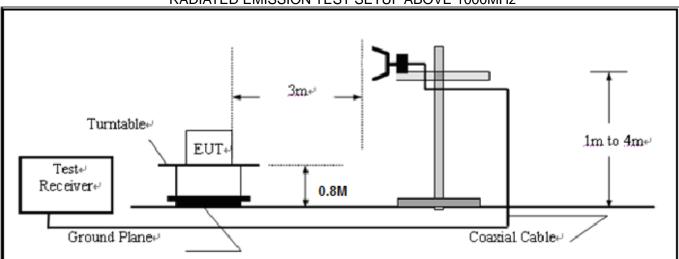


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RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



9.3 MEASUREMENT EQUIPMENT USED

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	07/18/2012	07/17/2013
Amplifier	EM	EM30180	0607030	07/18/2012	07/17/2013
Horn Antenna	EM	EM-AH-10180	N/A	07/18/2012	07/17/2013
Horn Antenna	A.H. Systems Inc.	SAS-574		07/18/2012	07/17/2013
EMI Test Receiver	Rohde & Schwarz	ESCI	N/A	07/18/2012	07/17/2013
Amplifier	EM	EM30180	N/A	07/18/2012	07/17/2013
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	07/18/2012	07/17/2013
Loop Antenna	A.H.	SAS-526B	264	07/18/2012	07/17/2013
Isolation Transformer	LETEAC	LTBK		07/18/2012	07/17/2013

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9.4 LIMITS AND MEASUREMENT RESULT

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

Frequencies	Field Strength	Measurement Distance			
(MHz)	(micorvolts/meter)	(meters)			
0.009~0.490	2400/F(KHz)	300			
0.490~1.705	24000/F(KHz)	30			
1.705~30.0	30	30			
30~88	100	3			
88~216	150	3			
216~960	200	3			
Above 960	500	3			

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

Temperature: 26

Humidity: 60 %

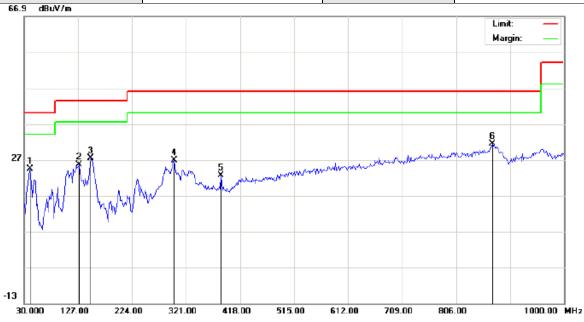
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RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

EUT	Link Tablet PC	Model Name	Z600					
Temperature	25° C	Relative Humidity	55.4%					
Pressure	960hPa	Test Voltage	Normal Voltage					
Test Mode	802.11b With date rate 1 2412MHZ	Antenna	Vertical					



Polarization: Vertical

Limit: FCC Class B 3M Radiation

EUT: Link Tablet PC

M/N: Z600

Site: site #1

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		41.3167	17.69	6.79	24.48	40.00	-15.52	peak			
2		128.6167	16.70	8.95	25.65	43.50	-17.85	peak			
3		149.6333	13.19	14.15	27.34	43.50	-16.16	peak			
4		299.9833	9.81	17.00	26.81	46.00	-19.19	peak			
5		384.0500	3.41	19.16	22.57	46.00	-23.43	peak			
6	*	870.6667	1.50	29.82	31.32	46.00	-14.68	peak			

Power:

Distance: 3m

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EUT	Link Tablet PC	Model Name	Z600	
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: Link Tablet PC

M/N: Z600

Mode: Low channel TX

Note:

Polarization:	Horizontal	l emperatu	re: 2	26
Power:		Humidity:	60 %	6

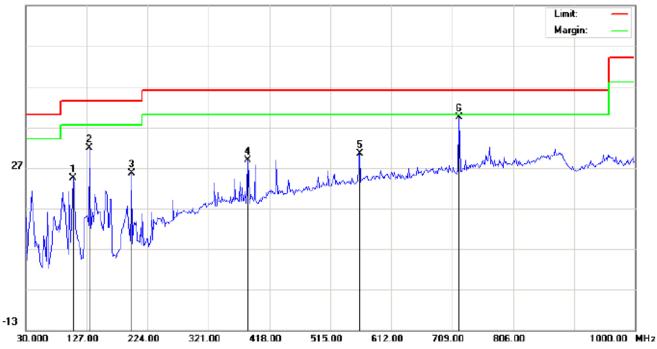
Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	128.6167	17.70	13.89	31.59	43.50	-11.91	peak			
2		232.0833	16.50	12.44	28.94	46.00	-17.06	peak			
3		316.1500	12.97	18.06	31.03	46.00	-14.97	peak			
4		384.0500	13.31	18.55	31.86	46.00	-14.14	peak			
5		760.7333	1.76	27.57	29.33	46.00	-16.67	peak			
6		851.2667	1.64	30.09	31.73	46.00	-14.27	peak			

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EUT	Link Tablet PC	Model Name	Z600	
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 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Link Tablet PC Distance: 3m

M/N: Z600

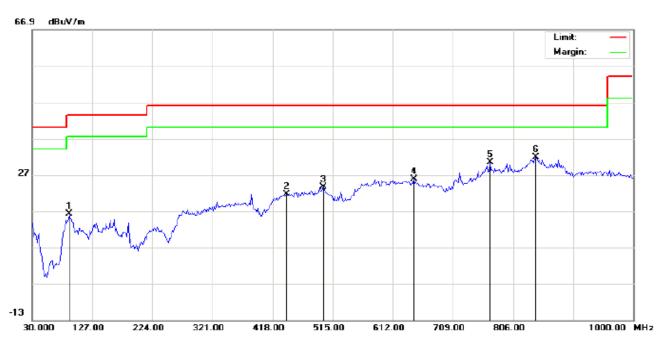
Mode: Middle channel TX

Note:

۷o.	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		105.9833	15.05	9.40	24.45	43.50	-19.05	peak			
2		131.8500	21.93	9.93	31.86	43.50	-11.64	peak			
3		198.1333	17.15	8.51	25.66	43.50	-17.84	peak			
4		384.0500	9.61	19.16	28.77	46.00	-17.23	peak			
5		561.8833	6.40	24.07	30.47	46.00	-15.53	peak			
6	*	720.3167	13.31	26.15	39.46	46.00	-6.54	peak			

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EUT	Link Tablet PC	Model Name	Z600
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 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Link Tablet PC Distance: 3m

M/N: Z600

Mode: Middle channel TX

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		89.8167	-0.91	17.11	16.20	43.50	-27.30	peak			
2		440.6333	0.11	21.48	21.59	46.00	-24.41	peak			
3		500.4500	0.78	22.90	23.68	46.00	-22.32	peak			
4		645.9500	1.35	24.47	25.82	46.00	-20.18	peak			
5		768.8167	2.52	27.81	30.33	46.00	-15.67	peak		·	
6	*	843.1833	0.77	30.99	31.76	46.00	-14.24	peak			

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EUT	Link Tablet PC	Model Name	Z600	
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: Link Tablet PC Distance: 3m

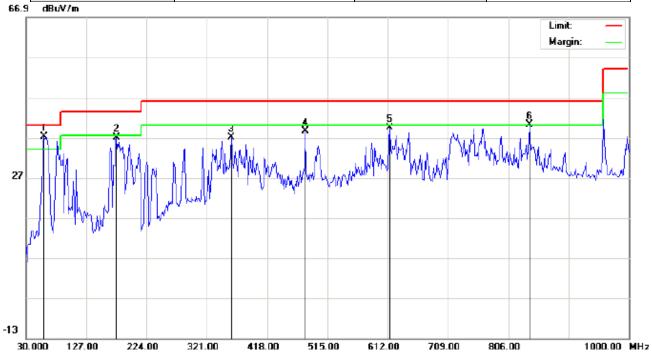
M/N: Z600

Mode: High channel TX

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	*	63.9500	34.47	2.25	36.72	40.00	-3.28	peak			
2		196.5166	26.71	8.79	35.50	43.50	-8.00	peak			
3		479.4333	13.82	21.67	35.49	46.00	-10.51	peak			
4		615.2333	9.05	25.03	34.08	46.00	-11.92	peak			
5		720.3167	11.50	26.15	37.65	46.00	-8.35	peak			
6		959.5833	10.12	28.92	39.04	46.00	-6.96	peak			

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EUT	Link Tablet PC	Model Name	Z600	
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: Link Tablet PC Distance: 3m

M/N: Z600

Mode: High channel TX

Note:

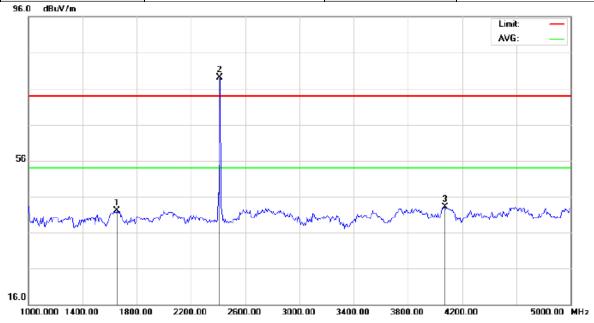
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	59.1000	33.64	3.63	37.27	40.00	-2.73	peak			
2		175.5000	25.44	11.61	37.05	43.50	-6.45	peak			
3		359.8000	17.97	19.11	37.08	46.00	-8.92	peak			
4		479.4333	16.85	21.67	38.52	46.00	-7.48	peak			
5		615.2333	14.41	25.03	39.44	46.00	-6.56	peak			
6	ļ	839.9500	8.95	31.34	40.29	46.00	-5.71	peak			

Note: Measurement= Reading + Factor, Over=Measure-Limit.

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RADIATED EMISSION ABOVE 1GHZ

		7.20.2	
EUT	Link Tablet PC	Model Name	Z600
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: Link Tablet PC Distance: 3m

M/N: Z600

Mode: Low channel TX

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		1653.333	35.81	6.23	42.04	74.00	-31.96	peak			
2	*	2413.333	68.83	10.33	79.16	74.00	5.16	peak			
3		4073.333	29.23	13.97	43.20	74.00	-30.80	peak			

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EUT	Link Tablet PC	Model Name	Z600
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: Link Tablet PC Distance: 3m

M/N: Z600

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		1506.667	41.21	4.69	45.90	74.00	-28.10	peak			
2	*	2413.333	74.33	10.33	84.66	74.00	10.66	peak			
3		4220.000	36.65	11.54	48.19	74.00	-25.81	peak			

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

Measurement= Reading + Factor, Over=Measure-Limit.

All modes radiation emission from 5GHz to 25GHz at least have 20dB margin.

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10 BAND EDGE EMISSION

10.1 MEASUREMENT PROCEDURE

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

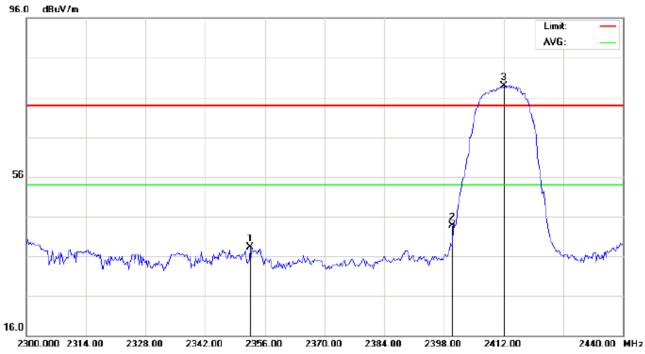
10.2 TEST SET-UP

The Same as described in section 8.2

10.3 TEST RESULT

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EUT	Link Tablet PC	Model Name	Z600
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: Link Tablet PC Distance: 3m

M/N: Z600

Mode: 802.11b-Low Channel-TX

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		2352.500	27.95	10.27	38.22	74.00	-35.78	peak			
2		2400.000	33.37	10.32	43.69	74.00	-30.31	peak			
3	*	2412.000	68.51	10.33	78.84	74.00	4.84	peak			

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EUT	Link Tablet PC	Model Name	Z600
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 %

2370.00

2384.00

2398.00

2412.00

2440.00 MHz

2356.00

EUT: Link Tablet PC Distance: 3m

2342.00

2328.00

M/N: Z600

2300.000 2314.00

Mode: 802.11b-Low Channel-TX

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		2352.033	30.60	10.27	40.87	74.00	-33.13	peak			
2		2400.000	34.37	10.32	44.69	74.00	-29.31	peak			
3	*	2412.000	70.01	10.33	80.34	74.00	6.34	peak			

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EUT	Link Tablet PC	Model Name	Z600
Temperature	emperature 25° C		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: Link Tablet PC Distance: 3m

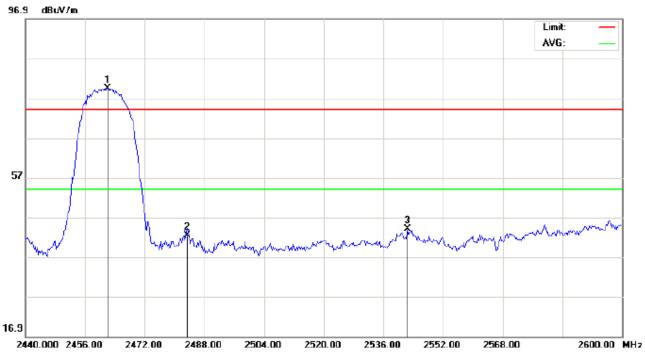
M/N: Z600

Mode: 802.11b-High Channel-TX

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	68.53	10.39	78.92	74.00	4.92	peak			
2		2483.500	27.56	10.41	37.97	74.00	-36.03	peak			
3		2515.467	29.36	10.47	39.83	74.00	-34.17	peak			

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EUT	Link Tablet PC	Model Name	Z600
Temperature	Temperature 25° C		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: Link Tablet PC Distance: 3m

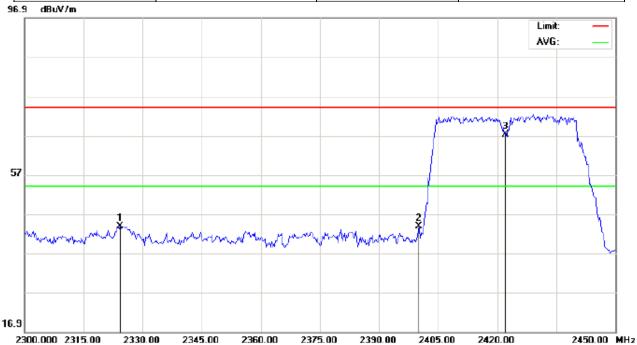
M/N: Z600

Mode: 802.11b-High Channel-TX

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	68.94	10.39	79.33	74.00	5.33	peak			
2		2483.500	32.00	10.41	42.41	74.00	-31.59	peak			
3		2542.400	33.38	10.53	43.91	74.00	-30.09	peak			

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EUT	Link Tablet PC	Model Name	Z600
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: Link Tablet PC Distance: 3m

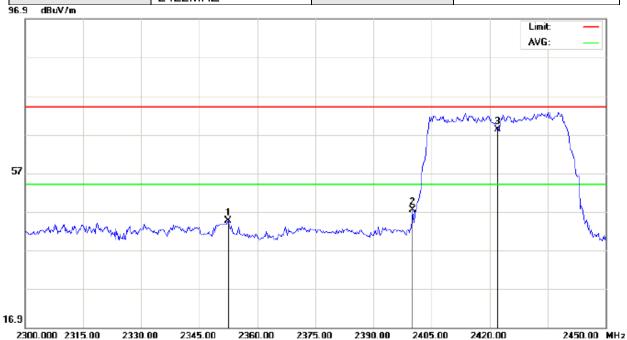
M/N: Z600

Mode: 802.11n40-Low Channel-TX

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		2324.250	33.64	10.24	43.88	74.00	-30.12	peak			
2		2400.000	33.43	10.32	43.75	74.00	-30.25	peak			
3	*	2422.000	56.83	10.34	67.17	74.00	-6.83	peak			

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EUT	Link Tablet PC	Model Name	Z600
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: Link Tablet PC Distance: 3m

M/N: Z600

Mode: 802.11n40-Low Channel-TX

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		2352.500	34.37	10.27	44.64	74.00	-29.36	peak			
2		2400.000	37.07	10.32	47.39	74.00	-26.61	peak			
3	*	2422.000	57.83	10.34	68.17	74.00	-5.83	peak			

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EUT	Link Tablet PC	Model Name	Z600
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: Link Tablet PC Distance: 3m

M/N: Z600

Mode: 802.11n40-High Channel-TX

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	*	2452.000	59.57	10.38	69.95	74.00	-4.05	peak			
2		2483.550	29.87	10.41	40.28	74.00	-33.72	peak			
3		2536.250	31.85	10.52	42.37	74.00	-31.63	peak			

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EUT	Link Tablet PC	Model Name	Z600		
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	Horizontal		



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

EUT: Link Tablet PC Distance: 3m

M/N: Z600

Mode: 802.11n40-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	*	2452.000	56.17	10.38	66.55	74.00	-7.45	peak			
2		2483.550	31.41	10.41	41.82	74.00	-32.18	peak			
3		2571.100	31.23	10.60	41.83	74.00	-32.17	peak			

Note: the other modes radiation emission have enough 20dB margin. Measurement= Reading + Factor, Over=Measure-Limit.

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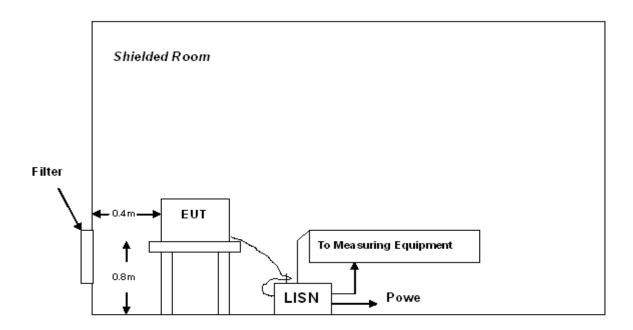
10. FCC LINE CONDUCTED EMISSION TEST

11.1 LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	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.

11.2 BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



A: Powered through filter

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

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11.3 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 power from a LISN, if any.
- 5) The EUT received DC 5V power by adapter which received 120V/60Hz power from 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 following 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. All the test mode were in the worst case(the lowest rate).

11.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

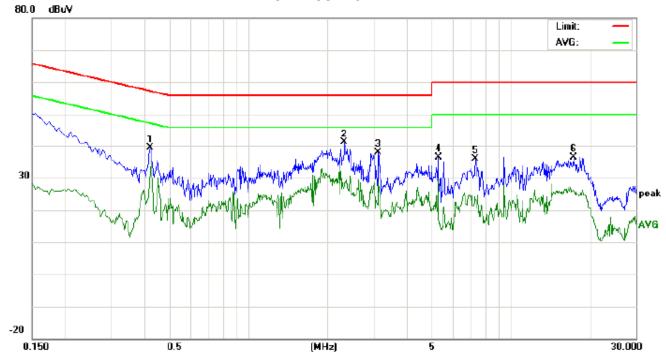
- 1) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.

Temperature26 Humidity: 60 %

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11.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

TEST RESULT OF L LINE



Phase:

Power:

L1

Site: Conduction

Limit: FCC Class B Conduction(QP)

EUT: Link Tablet PC

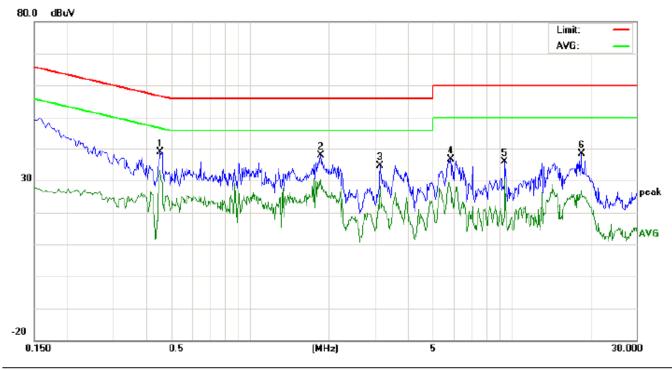
M/N: Z600

Mode: Normal (Wi-Fi)

No.	Freq.	Reading_Level (dBuV)			Correct Factor				Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.4220	29.15		22.70	10.35	39.50		33.05	57.41	47.41	-17.91	-14.36	Р	
2	2.3220	30.75		18.27	10.36	41.11		28.63	56.00	46.00	-14.89	-17.37	Р	
3	3.1340	27.36		18.16	10.54	37.90		28.70	56.00	46.00	-18.10	-17.30	Р	
4	5.2940	26.19		18.78	10.25	36.44		29.03	60.00	50.00	-23.56	-20.97	Р	
5	7.3540	25.52		12.77	10.34	35.86		23.11	60.00	50.00	-24.14	-26.89	Р	
6	17.3180	26.32		15.81	10.13	36.45		25.94	60.00	50.00	-23.55	-24.06	Р	

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TEST RESULT OF N LINE



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

EUT: Link Tablet PC

M/N: Z600

Mode: Normal (Wi-Fi)

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	0.4540	28.52		22.87	10.37	38.89		33.24	56.80	46.80	-17.91	-13.56	Р	
2	1.8620	27.73		19.99	10.26	37.99		30.25	56.00	46.00	-18.01	-15.75	Р	
3	3.1460	24.08		17.80	10.54	34.62		28.34	56.00	46.00	-21.38	-17.66	Р	
4	5.8460	26.25		17.73	10.27	36.52		28.00	60.00	50.00	-23.48	-22.00	Р	
5	9.4300	25.42		19.97	10.36	35.78		30.33	60.00	50.00	-24.22	-19.67	Р	
6	18.4940	28.28		16.69	10.12	38.40		26.81	60.00	50.00	-21.60	-23.19	Р	

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APPENDIX I PHOTOGRAPHS OF THE EUT

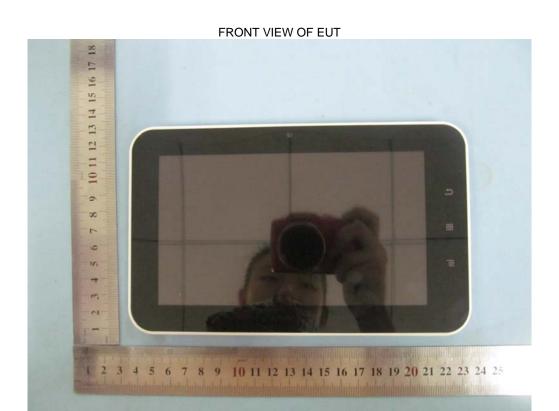
TOP VIEW OF EUT





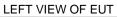


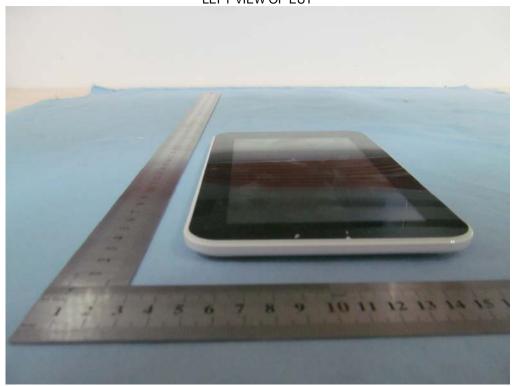
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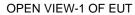




RIGHT VIEW OF EUT



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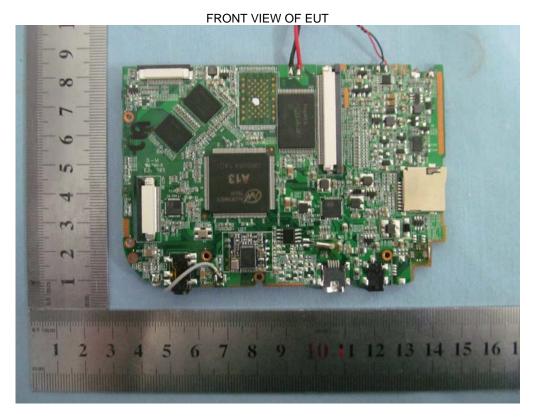
WiFi Antenna

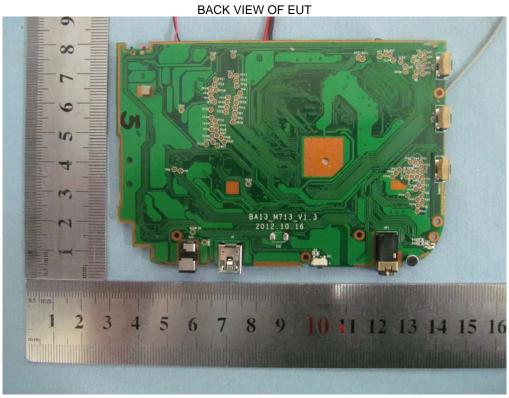


OPEN VIEW-2 OF EUT



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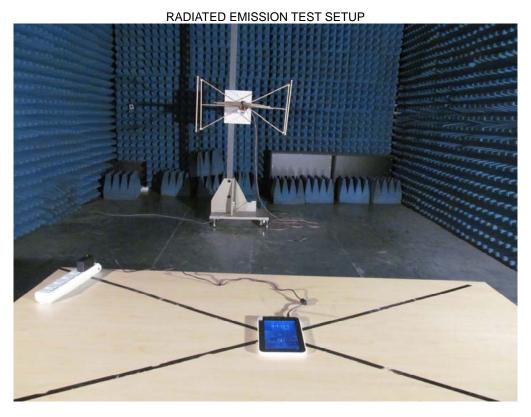
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APPENDIX II

PHOTOGRAPHS OF THE TEST SETUP

CONDUCTED EMISSION TEST SETUP





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----END OF REPORT----