FCC RADIO TEST REPORT FCC ID: 2ACV2A100

Product: Tablet PC

Trade Name: N/A

Model Name: A100

Serial Model: XP10

Prepared for

advanced digital solution corporation limited

UNIT 04 , 7/F,BRIGHT WAY TOWER,NO,33 MONG KOK ROAD,KOWLOON,HK

Prepared by

DongGuan Precise Testing Service Co.,Ltd.

Room 203-204, 2F, Xinye Building, No.67 Shijing, Guanzhang
Road, Dongguan, China



TEST RESULT CERTIFICATION

Applicant's name	advanced digit	tal solu	tion corp	oration	limited		
Address	UNIT 04 , 7/F,						
	BRIGHT WAY	TOWE)AD,KOV	√LOON,HK
Manufacture's Name	•		tion corp	oration	limited		
Address	UNIT 04 , 7/F,	TOME	.D NO 33	MONIC	YOK DO		VI OON LIIZ
Product description	BRIGHT WAY	TOVVE	:R,NO,33	NIONG	NON RC	JAD,KOV	VLOON,HK
-	Tablet DC						
Product name							
Model and/or type reference	A100						
Serial Model	XP10						
Standards	FCC Part15.24	47					
Test procedure	ANSI C63.4-20	003					
This device described all equipment under test (E to the tested sample ide	UT) is in compl	iance v					
This report shall not be redocument may be altered the document. Date of Test	d or revised by	•	•		• •		•
Date (s) of performance	of tests Jul	. 24, 20	14 ~ Aug.	12, 2014	1		
Date of Issue							
Test Result							
Testing	յ Engineer	:		Jones	0		-
Techni	cal Manager	:		Assis Oovvie Super	1 Liu		-
Author	ized Signatory	:	Jac	_	⊈ மே Manager		-



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)	Peak Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Power Spectral Density	PASS				
15.205	Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC				
Trade Name	N/A				
Model Name	A100				
Serial Model	XP10				
Model Difference	Material difference in the rear housing cover (A100:ABS+PC; XP100:Metal).				
	The EUT is a Tablet Po				
	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz			
		802.11n(40MHz):2422~2452MHz			
	Modulation Type:	DBPSK,DQPSK,CCK,BPSK,QPSK,			
		16QAM, 64QAM			
	Bit Rate of	802.11b:11/5.5/2/1 Mbps			
	Transmitter	802.11g:54/48/36/24/18/12/9/6Mbps			
		802.11n(20MHz):			
		72.2/65/57.8/43.3/28.9/21.7/14.4/7.2			
		Mbps			
Product Description		802.11n(HT40):			
, , o a o o o o o o o o o o o o o o o o		150/135/120/90/60/45/30Mbps			
	Number Of Channel	802.11b/g/n20MHz:11CH 802.11n(40MHz):7CH			
	Antenna Designation:	Please see Note 3.			
	Output Power(Conducted):	802.11b: 10.23 dBm (Max.PK) 802.11g: 10.13 dBm (Max. PK) 802.11n(20M): 9.29 dBm (Max. PK) 802.11n(40M): 9.53 dBm (Max. PK)			
	Antenna Gain (dBi)	2.41dbi			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.				
Channel List	Please refer to the Note 2.				
Ratings	DC 5.0V from adapter.				
Adapter	MODEL: JY12200 INPUT: AC 100-240V , 50/60Hz 0.5A Max OUTPUT: 12V===2A				
Patton	DC 3.7V FROM BATTE	ERY FROM BATTERY 4050mAh			
Battery	rechargeable battery x	2			



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

	Channel List for 802.11b/g/n(20 MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

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

3

Table for Filed Antenna

<u> ~ ~ </u>	ble for tilled / titleffind						
/	۹nt	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	Α	N/A	N/A	FPCB Antenna	A "ipex connector" is as an antenna connector.	2.41	N/A



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20MHz) CH1/ CH6/ CH11
Mode 4	802.11n(40MHz) CH3/ CH6/ CH9
Mode 5	TX Mode

For Conducted Emission					
Final Test Mode	Description				
Mode 5	TX Mode				

For Radiated Emission					
Final Test Mode	Description				
Mode 1	802.11b CH1/ CH6/ CH11				
Mode 2	802.11g CH1/ CH6/ CH11				
Mode 3	802.11n/20MHz CH1/ CH6/ CH11				
Mode 4	802.11n(40MHz) CH3/ CH6/ CH9				

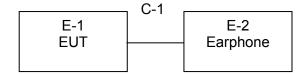
Note

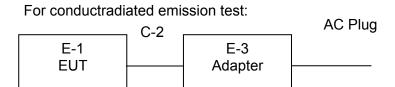
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

For Radiated emission test:







RECISE TESTING

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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC	N/A	A100	N/A	EUT
E-2	Earphone	DELI	DELI-001	N/A	N/A
E-3	Adapter	N/A	SWI10-W0502000A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	
C-2	NO	NO	0.85m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	ation rest equi	31110111					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
12	RF cable	PTS	40 CM	N/A	2014.07.01	2015.06.30	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year
7	Coaxial cable	PTS	200 CM	N/A	2014.07.01	2015.06.30	1 year

1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A	(dBuV)	Class B	Standard	
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



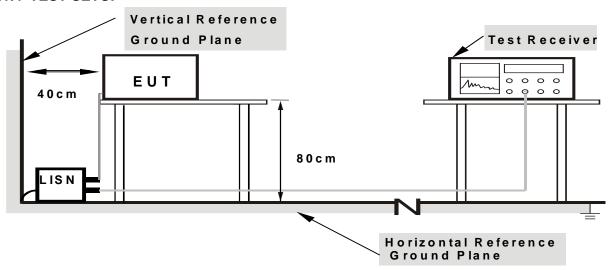
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80

from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

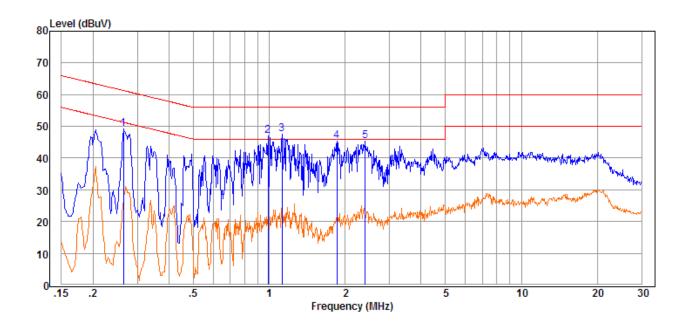


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3.1.6 TEST RESULTS

EUT:	Tablet PC	Model Name. :	A100
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
Hest vollage .	DC 5V form Adapter AC 120V/60Hz	Test Mode:	Mode 5

Freq MHz	Reading dBuV	Factor dB	Result dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Phase
0.26	47.86	1.28	49.14	61.29	-12.15	Peak	LINE
0.99	45.59	1.32	46.91	56.00	-9.09	Peak	LINE
1.12	46.18	1.32	47.50	56.00	-8.50	Peak	LINE
	44.17	_		56.00		Peak	LINE
1.86		1.33	45.50		-10.50		
2.41	44.00	1.34	45.34	56.00	-10.66	Peak	LINE



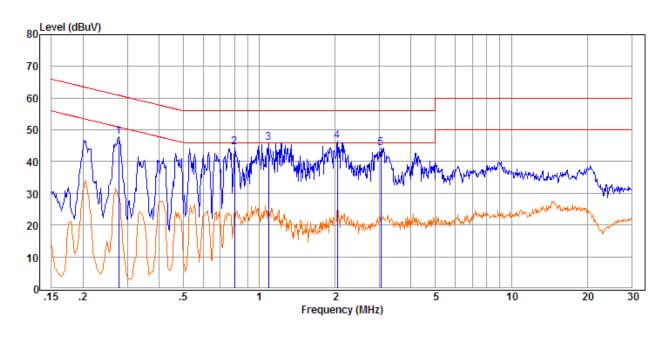


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EUT:	Tablet PC	Model Name. :	A100
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Hest Vollage .	DC 5V form Adapter AC 120V/60Hz	Test Mode:	Mode 5

Freq MHz	Reading dBuV	Factor dB	Result dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Phase
0.28	46.43	1.28	47.71	60.90	-13.19	Peak	NEUTRAL
0.80	43.13	1.31	44.44	56.00	-11.56	Peak	NEUTRAL
1.09	44.57	1.32	45.89	56.00	-10.11	Peak	NEUTRAL
2.04	45.20	1.33	46.53	56.00	-9.47	Peak	NEUTRAL
3.04	43.04	1.34	44.38	56.00	-11.62	Peak	NEUTRAL

.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

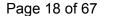
FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
PREQUENCT (WITZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

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

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook 1 MHz / 10/1-for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / <i>10Hz</i> for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP





3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

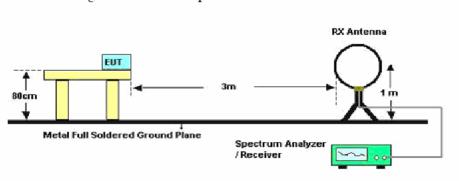


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3.2.4 TEST SETUP

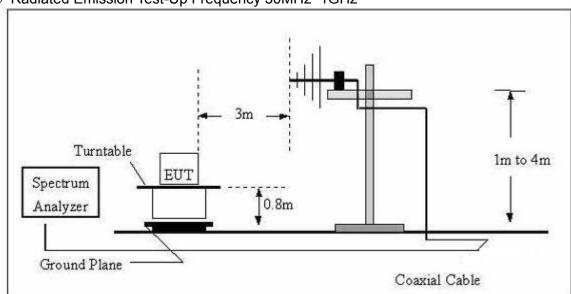
(A) Radiated Emission Test-Up Frequency Below 30MHz

5.2 Block Diagram of Test Setup



Below 30MHz

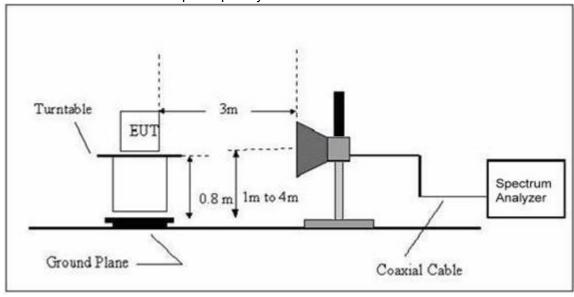
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

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





3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	Tablet PC	Model Name. :	A100
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Liest Voltage .	DC 3.7V FROM BATTERY
Test Mode:	TX	Polarization :	

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

NOTE:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

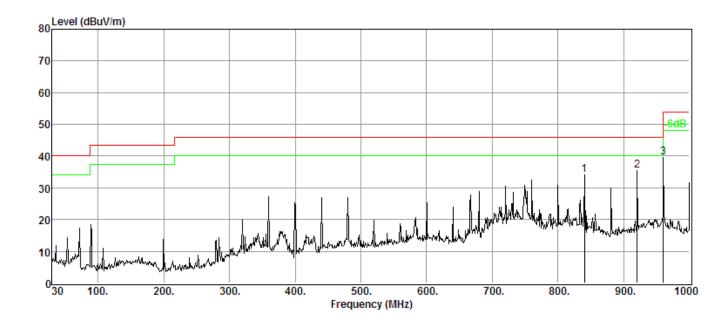


FCISE TESTING

3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

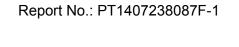
A100 Worst case data: Channel 6, 802.11b

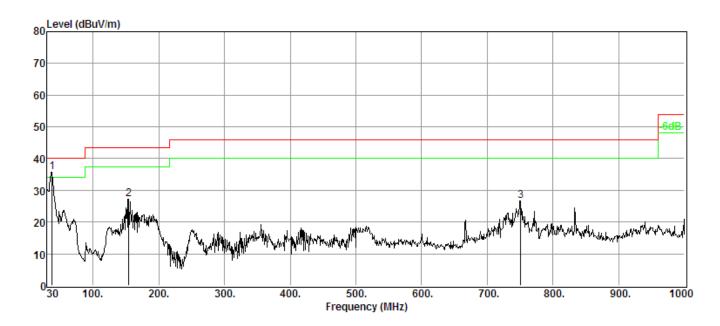
EUT:	Tablet PC	Model Name. :	A100
Temperature:	25 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V FROM BATTERY
Test Mode:	Mode 5		



Freq	Reading	C.F	Result	Limit	Over Limit	Remark	Polarity
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Remark	Polarity
839.95	42.44	-8.26	34.18	46.00	-11.82	QP	HORIZONTAL
920.46	42.95	-7.57	35.38	46.00	-10.62	QP	HORIZONTAL
960.23	46.71	-7.23	39.48	54.00	-14.52	QP	HORIZONTAL





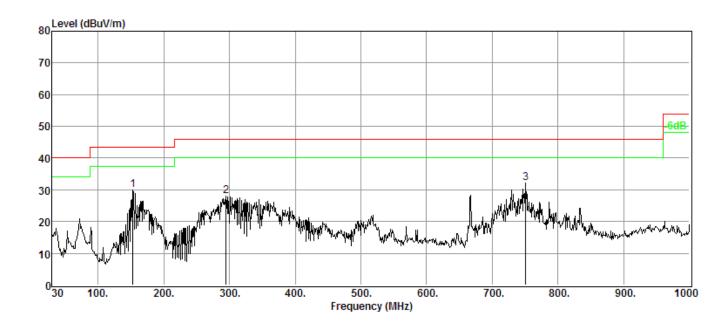


Freq	Reading	C.F	Result	Limit	Over Limit	Remark	Polarity
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	IXCIIIAIK	1 Glarity
37.76	54.20	-18.48	35.72	40.00	-4.28	QP	VERTICAL
154.16	45.09	-17.88	27.21	43.50	-16.29	QP	VERTICAL
750.71	36.12	-9.40	26.72	46.00	-19.28	QP	VERTICAL



XP10 Worst case data:	Channel 6.	802.11b
-----------------------	------------	---------

EUT:	Tablet PC	Model Name. :	XP10
Temperature :	25 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V FROM BATTERY
Test Mode:	Mode 5		



Freq	Reading	C.F	Result	Limit	Over Limit	Remark	Polarity
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Remark	Folanty
153.19	47.92	-17.90	30.02	43.50	-13.48	QP	HORIZONTAL
294.81	45.84	-17.92	27.92	46.00	-18.08	QP	HORIZONTAL
750.71	41.53	-9.40	32.13	46.00	-13.87	QP	HORIZONTAL





70

60

50

40

30

20

100.

200.

80 Level (dBuV/m)



800.

1000

900.

700.

750.71	39.40	-9.40	30.00	46.00	-16.00	QP	VERTICAL
839.95	38.20	-8.26	29.94	46.00	-16.06	QP	VERTICAL
960.23	42.88	-7.23	35.65	54.00	-18.35	QΡ	VERTICAL

400.

500. Frequency (MHz)

600.



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

Worst case: A100(With ABS+PC rear housing)

802.11b Low Channel (2412 MHz)-Above 1G									
Frequency (MHz)	Meter Reading (dBuV)		Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type	Polar (H/V)		
4823.69	47.85	10.43	58.28	74	-15.72	Pk	Vertical		
4823.69	33.26	10.43	43.69	54	-10.31	Av	Vertical		
7237.29	25.66	12.37	48.03	74	-25.97	Pk	Vertical		
4824.06	45.28	10.43	55.71	74	-18.29	Pk	Horizontal		
4824.06	36.67	10.43	47.10	54	-6.90	Av	Horizontal		
7235.29	32.79	12.37	45.16	74	-28.84	Pk	Horizontal		
		Mid C	hannel (2437 MHz)-Above 1G					
4874.09	43.42	10.45	53.87	74	-20.13	Pk	Vertical		
7312.41	35.10	12.41	47.51	74	-26.49	Pk	Vertical		
4875.65	49.79	10.45	60.24	74	-13.76	Pk	Horizontal		
4875.65	37.33	10.45	47.78	54	-6.22	AV	Horizontal		
7313.07	36.40	12.41	48.81	74	-25.19	Pk	Horizontal		
High Channel (2462 MHz)- Above 1G									
4924.13	41.92	10.39	52.31	74	-21.69	Pk	Vertical		
7385.93	34.13	12.68	46.81	74	-27.19	Pk	Vertical		
4925.62	41.58	10.39	51.97	74	-22.03	Pk	Horizontal		
7386.37	34.91	12.68	47.59	74	-26.41	Pk	Horizontal		



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802.11g Low Channel (2412 MHz)-Above 1G

Low Chairner (2412 Min2)-Above 1G									
Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type	Polar (H/V)		
4824.45	51.24	10.39	61.63	74	-12.37	Pk	Vertical		
4824.45	32.01	10.39	42.40	54	-11.60	AV	Vertical		
7236.56	43.87	12.68	56.55	74	-17.45	Pk	Vertical		
7236.56	36.88	12.68	49.56	54	-4.44	AV	Vertical		
4824.45	50.38	10.39	60.77	74	-13.23	Pk	Horizontal		
4824.45	33.74	10.39	44.13	54	-9.87	AV	Horizontal		
7236.35	44.82	12.68	57.50	74	-16.50	Pk	Horizontal		
7236.35	36.84	12.68	49.52	54	-4.48	AV	Horizontal		
		Mid (Channel (2437	7 MHz)-Above	1G				
4874.44	58.02	10.45	59.91	74	-14.09	Pk	Vertical		
4874.44	38.72	10.39	49.11	54	-4.89	AV	Vertical		
7312.54	44.27	12.41	56.68	74	-17.32	Pk	Vertical		
7312.54	37.86	12.41	50.27	54	-3.73	AV	Vertical		
4874.22	50.14	10.45	60.59	74	-13.41	Pk	Horizontal		
4874.22	36.19	10.39	46.58	54	-7.42	Av	Horizontal		
7312.53	41.34	12.41	53.75	74	-20.25	Pk	Horizontal		
High Channel (2462 MHz)- Above 1G									
4915.32	51.12	10.39	61.51	74	-12.49	Pk	Vertical		
4915.32	29.16	10.39	39.55	54	-14.45	Av	Vertical		
7386.52	43.24	12.68	55.92	74	-18.08	Pk	Vertical		
7386.52	32.75	12.68	45.43	54	-8.57	AV	Vertical		
4915.35	50.74	10.39	61.13	74	-12.87	Pk	Horizontal		
4915.35	33.57	10.39	43.96	54	-10.04	Av	Horizontal		
7386.37	40.65	12.68	53.33	74	-20.67	Pk	Horizontal		



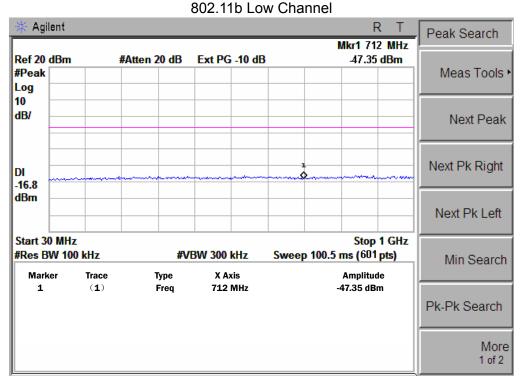
802.11n(HT20) Low Channel (2412 MHz)-Above 1G								
Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type	Polar (H/V)	
4824.44	53.47	10.39	63.86	74	-10.14	Pk	Vertical	
4824.44	31.06	10.39	41.45	54	-12.55	Av	Vertical	
7236.78	48.69	12.68	61.37	74	-12.63	Pk	Vertical	
7236.78	31.54	12.68	44.22	54	-9.78	Av	Vertical	
4824.91	51.23	10.39	61.62	74	-12.38	Pk	Horizontal	
4824.91	36.78	10.39	47.17	54	-6.83	Av	Horizontal	
7236.48	46.28	12.68	58.96	74	-15.04	Pk	Horizontal	
7236.48	34.29	12.68	46.97	54	-7.03	Av	Horizontal	
		Mid C	hannel (2437 MHz)-Above 1G				
4874.36	51.21	10.45	61.66	74	-12.34	Pk	Vertical	
4874.36	32.85	10.45	43.30	54	-10.70	AV	Vertical	
7312.55	48.25	12.41	60.66	74	-13.34	Pk	Vertical	
7312.55	34.87	12.41	47.28	54	-6.72	AV	Vertical	
4875.27	51.24	10.45	61.69	74	-12.31	Pk	Horizontal	
4875.27	34.02	10.45	44.47	54	-9.53	AV	Horizontal	
7312.28	45.26	12.41	57.67	74	-16.33	Pk	Horizontal	
7236.48	31.27	12.41	43.68	54	-10.32	Av	Horizontal	
		High C	hannel (2462 MHz	:)- Above 1G				
4915.08	50.13	10.39	60.52	74	-13.48	Pk	Vertical	
4915.08	31.82	10.39	42.21	54	-11.79	AV	Vertical	
7386.33	43.60	12.68	56.28	74	-17.72	Pk	Vertical	
7386.33	36.27	12.68	48.95	54	-11.79	AV	Vertical	
4915.34	52.01	10.39	62.40	74	-11.60	Pk	Horizontal	
4915.34	29.53	10.39	39.92	54	-14.08	AV	Horizontal	
7386.37	39.36	12.68	52.04	74	-21.96	Pk	Horizontal	

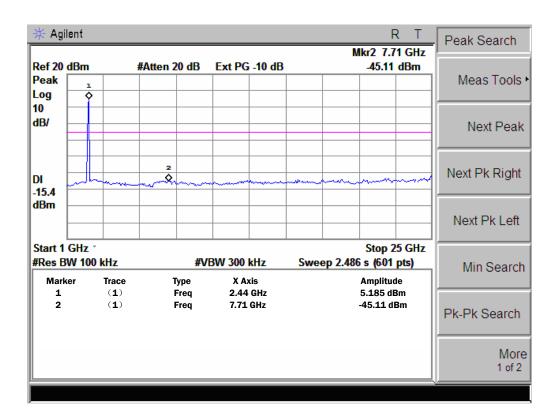


802.11n(HT40) Low Channel (2422 MHz)-Above 1G								
Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type	Polar (H/V)	
4846.36	47.35	10.43	57.78	74	-16.22	Pk	Vertical	
4846.36	36.14	10.43	46.57	54	-7.43	AV	Vertical	
7265.29	52.78	10.43	63.21	74	-10.79	Pk	Vertical	
7265.29	37.48	10.43	47.91	54	-6.09	AV	Vertical	
4846.44	40.41	12.37	52.78	74	-21.22	Pk	Horizontal	
7266.31	40.77	12.37	53.14	74	-20.86	Pk	Horizontal	
		Mid C	hannel (2437 MHz)-Above 1G				
4874.76	52.16	10.45	62.61	74	-11.39	Pk	Vertical	
4874.76	32.27	10.45	42.72	54	-11.28	AV	Vertical	
7312.55	47.28	12.41	59.69	74	-14.31	Pk	Vertical	
7312.55	30.62	12.41	43.03	54	-10.97	AV	Vertical	
4875.13	53.52	10.45	63.97	74	-10.03	Pk	Horizontal	
4875.13	35.09	10.45	45.54	54	-8.46	AV	Horizontal	
7312.53	47.63	12.41	60.04	74	-13.96	Pk	Horizontal	
7312.53	30.19	12.41	42.60	54	-11.40	AV	Horizontal	
		High C	hannel (2452 MHz)- Above 1G				
4906.22	51.62	10.39	62.01	74	-11.99	Pk	Vertical	
4906.22	33.25	10.39	43.64	54	-10.36	Av	Vertical	
7356.76	48.41	12.68	58.80	74	-15.20	Pk	Vertical	
7356.76	35.26	12.68	47.94	54	-6.06	Av	Vertical	
4906.34	51.63	10.39	62.02	74	-11.98	Pk	Horizontal	
4906.34	35.21	10.39	45.60	54	-8.40	Av	Horizontal	
7355.53	47.25	12.68	59.93	74	-14.07	Pk	Horizontal	
7355.53	31.26	12.68	43.94	54	-10.06	Av	Horizontal	



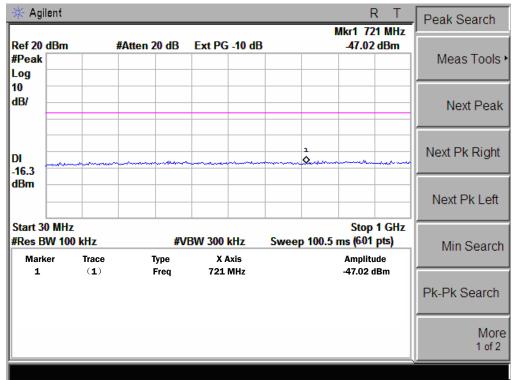
Conducted Spurious Emissions at Antenna Port:

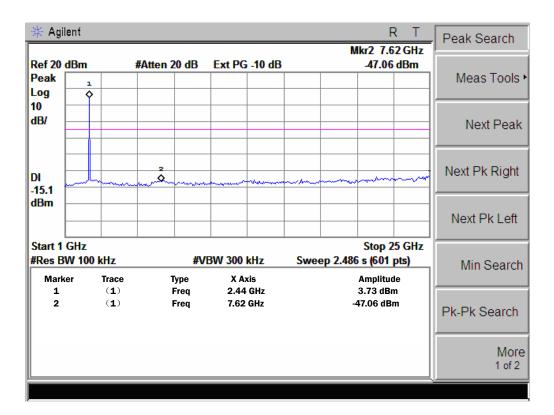






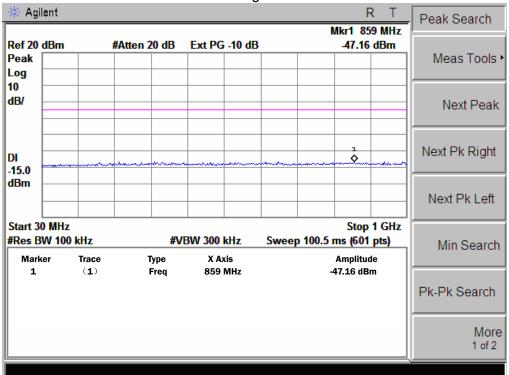
802.11b Middle Channel

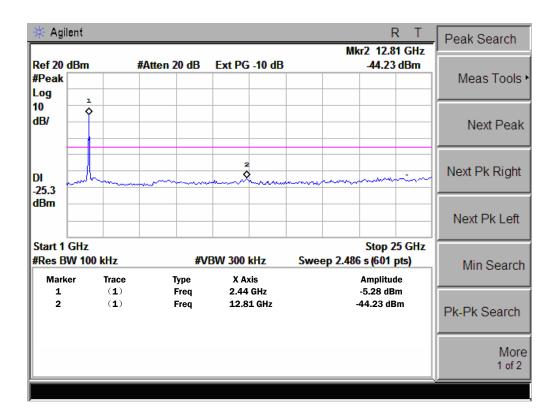




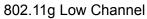


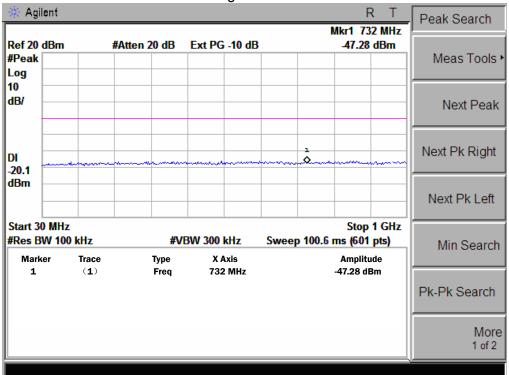


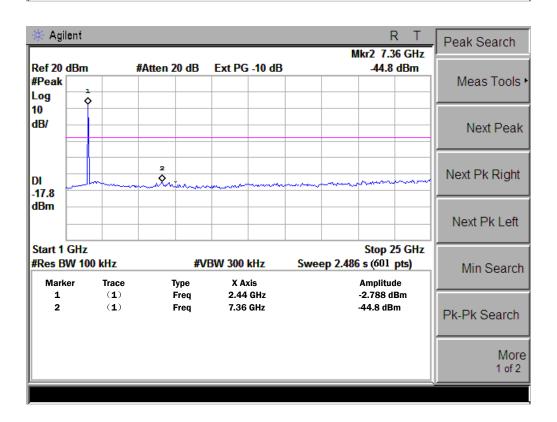




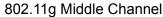


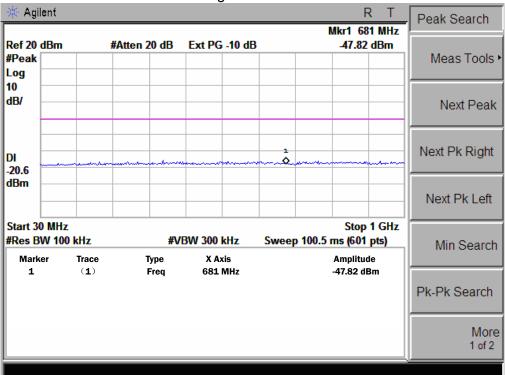


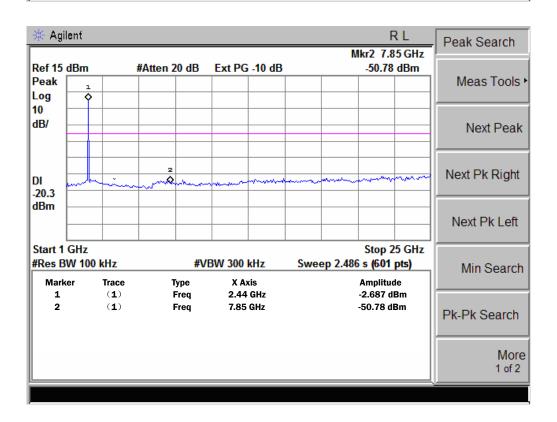






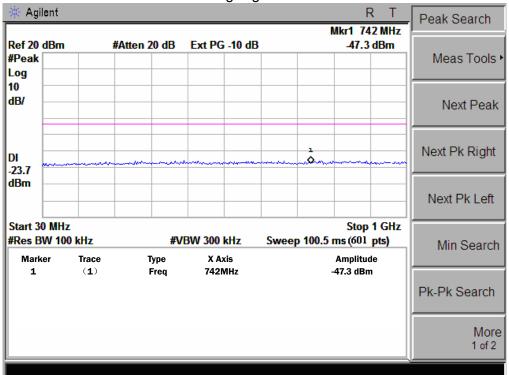


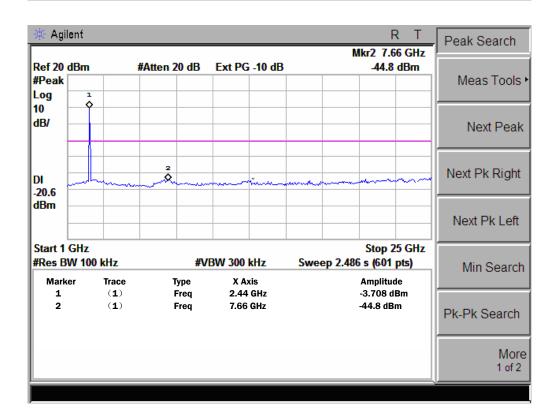






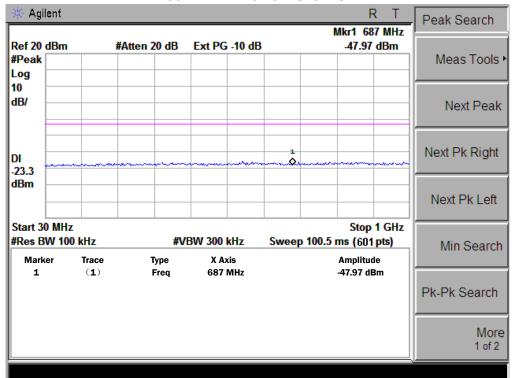


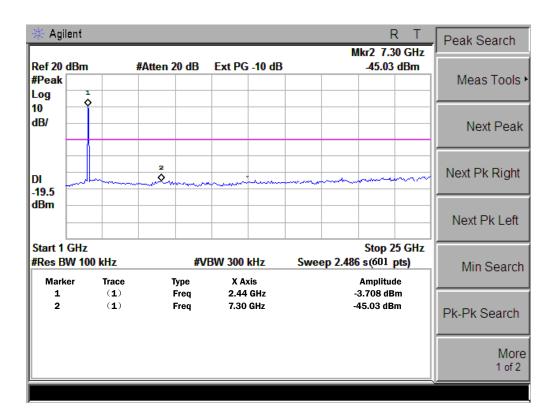






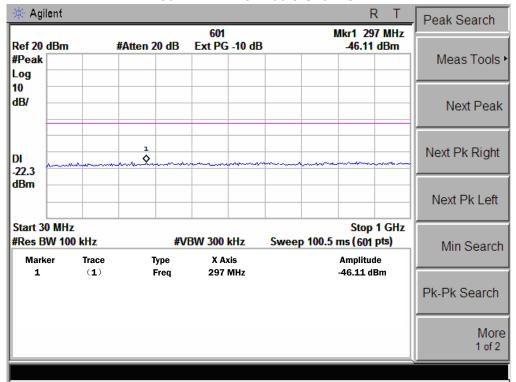
802.11n-HT20 Low Channel

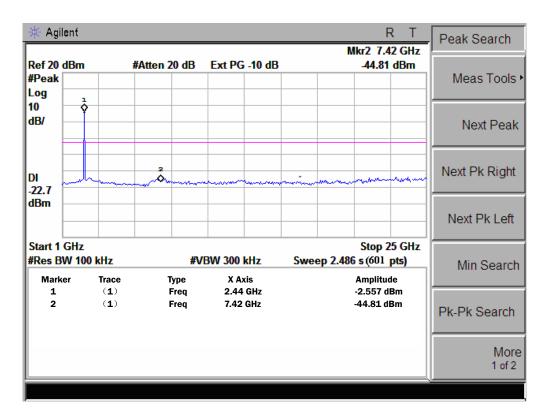






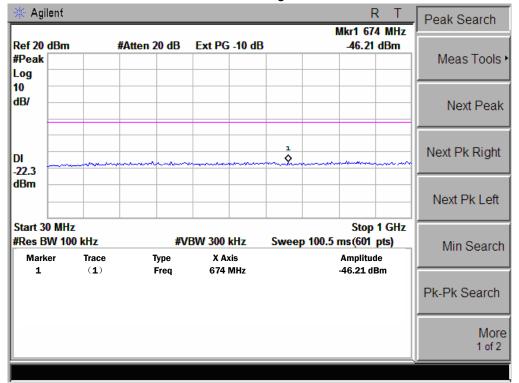
802.11n-HT20 Middle Channel

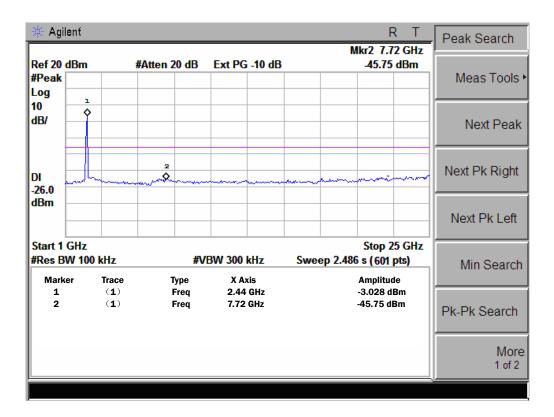




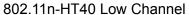


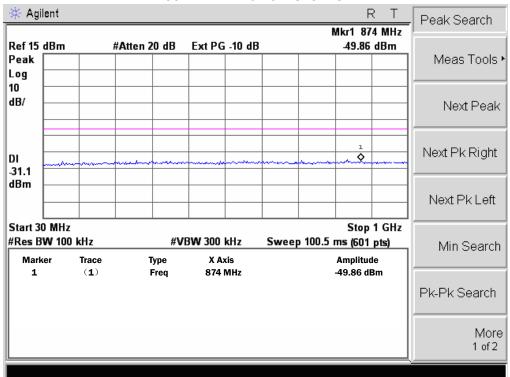
802.11n-HT20 High Channel

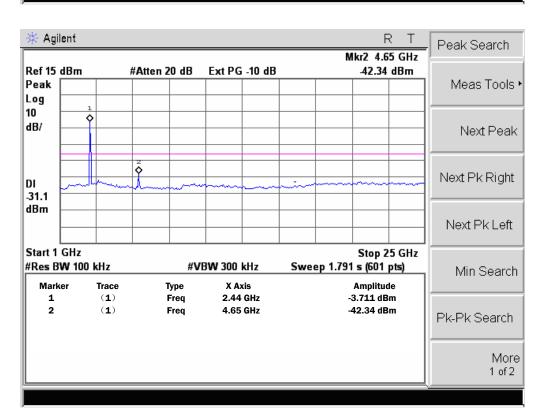






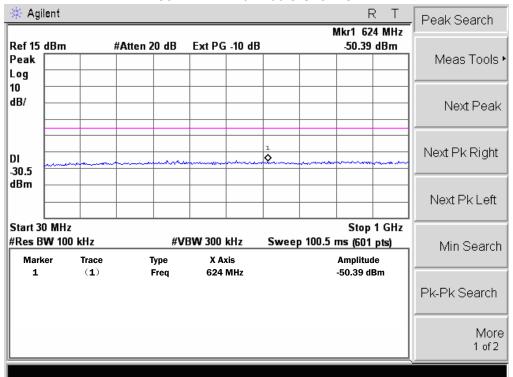


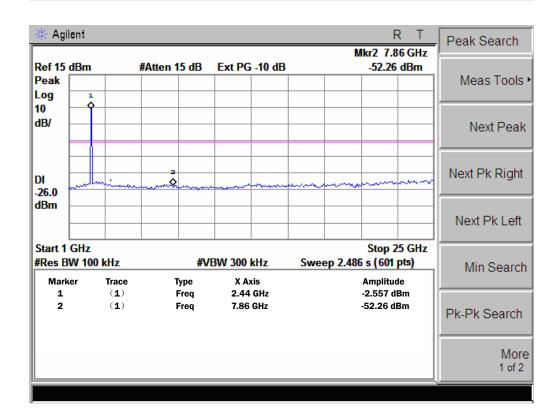






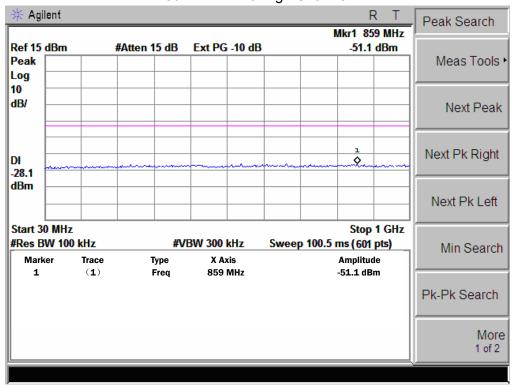
802.11n-HT40 Middle Channel

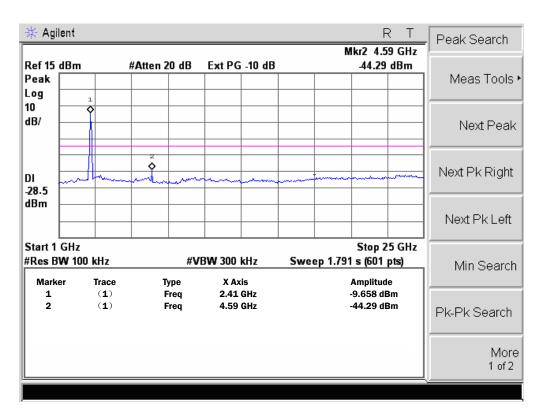






802.11n-HT40 High Channel







DECISE TESTING

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

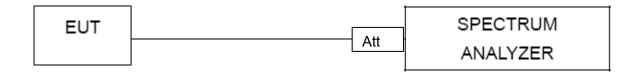
4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

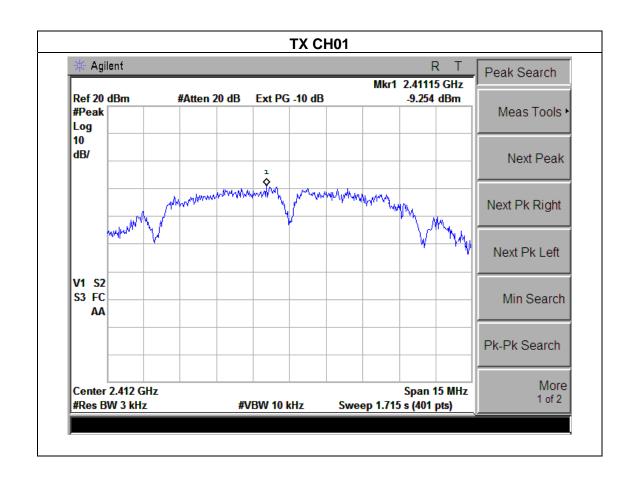


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4.1.5 TEST RESULTS

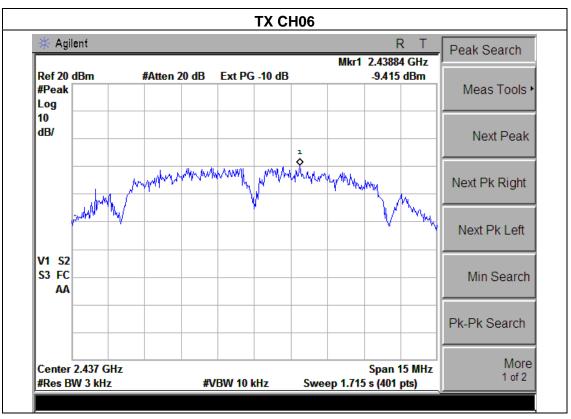
EUT:	Tablet PC	Model Name :	A100
Temperature:	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 5V FROM ADAPTER
Test Mode : TX b Mode /CH01, CH06, CH11			

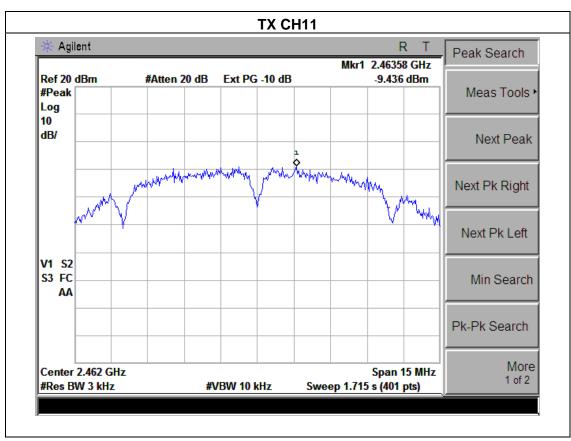
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-9.254	8	PASS
2437 MHz	-9.415	8	PASS
2462 MHz	-9.436	8	PASS





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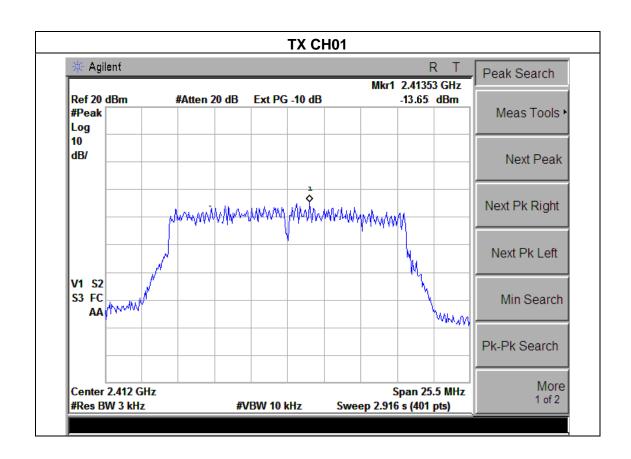
EUT: Tablet PC Model Name: A100

Temperature: 25 °C Relative Humidity: 56%

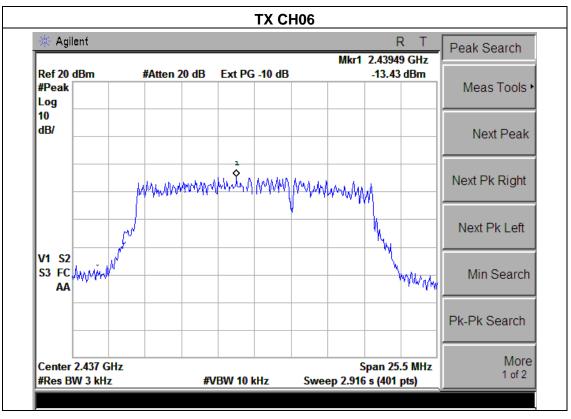
Pressure: 1015 hPa Test Voltage: DC 5V FROM ADAPTER

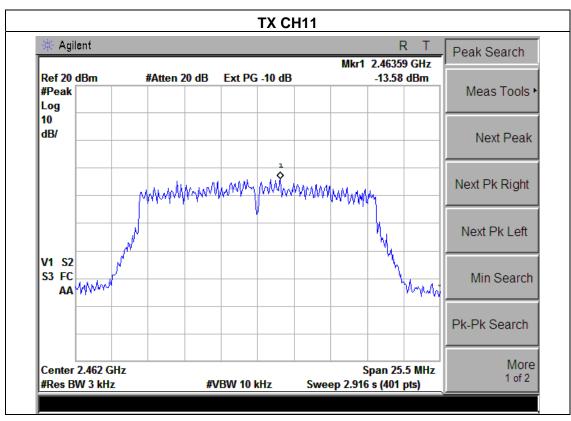
Test Mode: TX g Mode /CH01, CH06, CH11

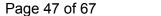
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-13.65	8	PASS
2437 MHz	-13.43	8	PASS
2462 MHz	-13.58	8	PASS













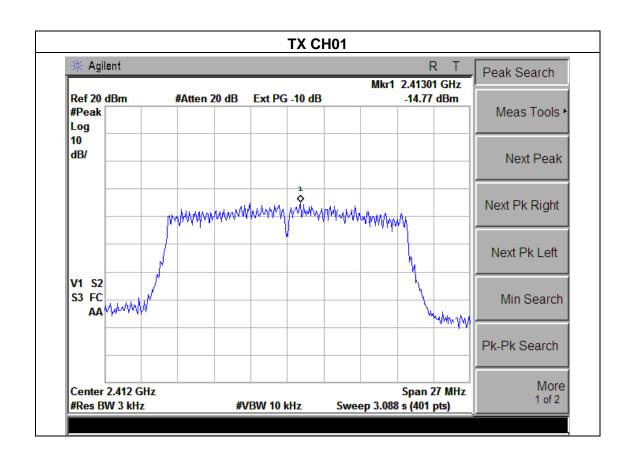
EUT: Tablet PC Model Name: A100

Temperature: 25 °C Relative Humidity: 56%

Pressure: 1015 hPa Test Voltage: DC 5V FROM ADAPTER

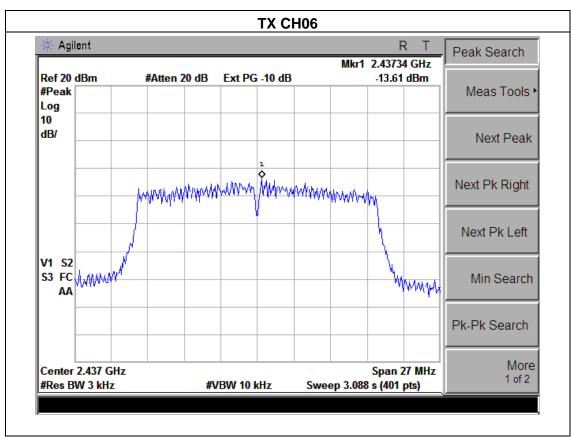
Test Mode: TX n Mode(20M) /CH01, CH06, CH11

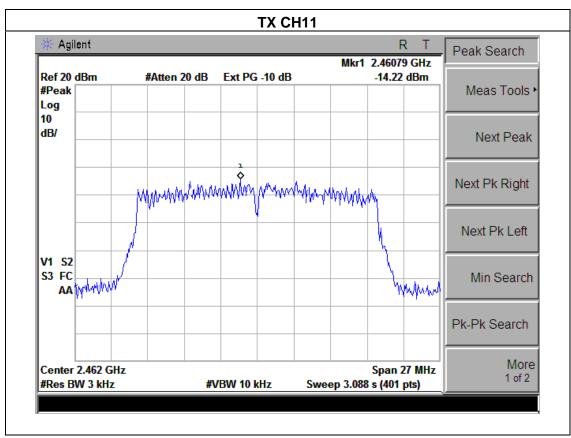
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.77	8	PASS
2437 MHz	-13.61	8	PASS
2462 MHz	-14.22	8	PASS

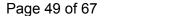




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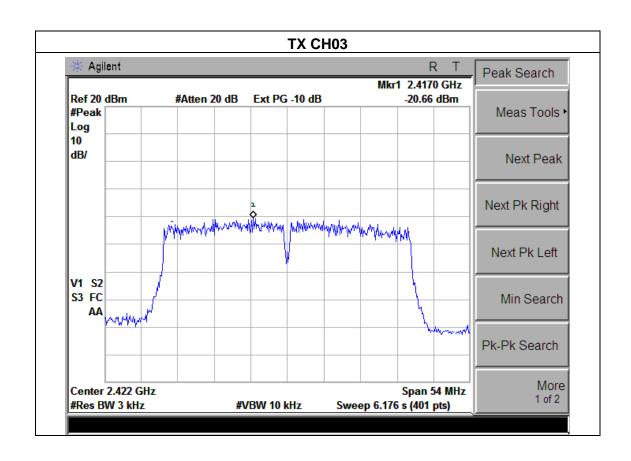
EUT: Tablet PC Model Name: A100

Temperature: 25 °C Relative Humidity: 56%

Pressure: 1015 hPa Test Voltage: DC 5V FROM ADAPTER

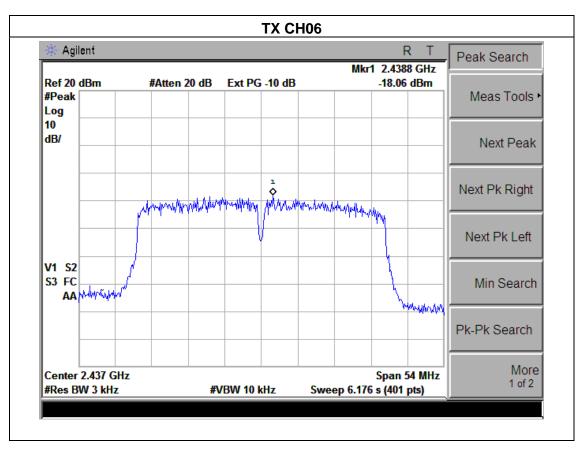
Test Mode: TX n Mode(40M) /CH03, CH06, CH09

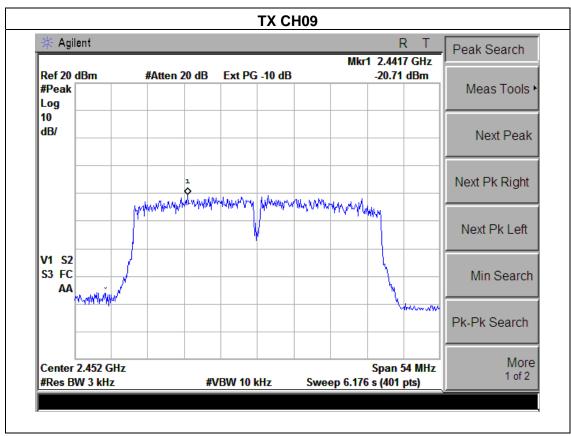
Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-20.66	8	PASS
2437 MHz	-18.06	8	PASS
2452 MHz	-20.71	8	PASS





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5. BANDWIDTH TEST

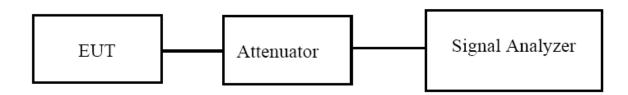
5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

According to KDB 558074 D01 DTS Meas Guidance v03r02

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



5.1.2 EUT OPERATION CONDITIONS

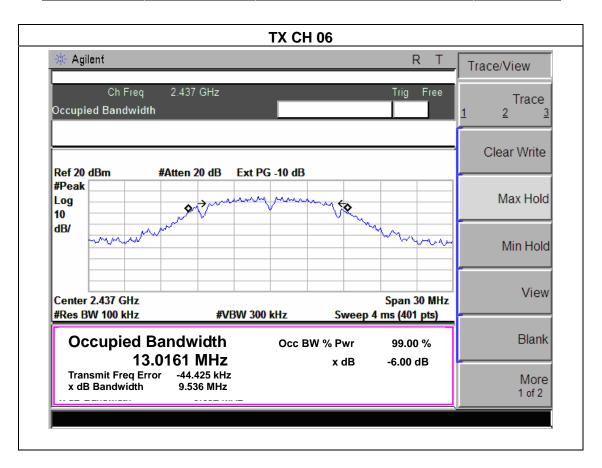
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

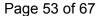


5.1.3 TEST RESULTS

EUT:	Tablet PC	Model Name :	A100
Temperature:	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 5V FROM ADAPTER
Test Mode :	de : TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.519	500	Pass
Middle	2437	9.536	500	Pass
High	2462	9.428	500	Pass







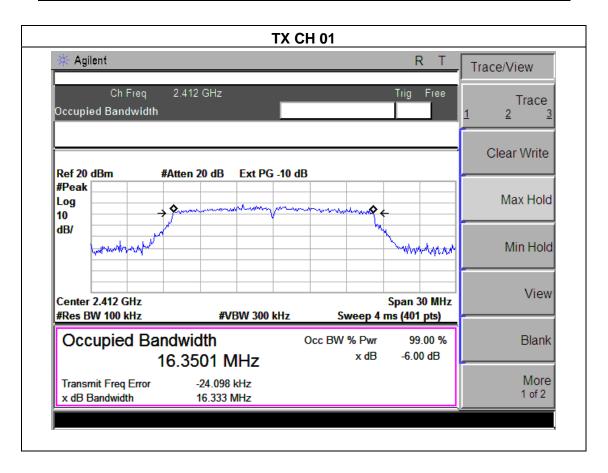
EUT : Tablet PC Model Name : A100

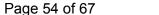
Temperature : 25 °C Relative Humidity : 60%

Pressure : 1012 hPa Test Voltage : DC 5V FROM ADAPTER

Test Mode : TX g Mode /CH01, CH06, CH11

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.333	500	Pass
Middle	2437	16.312	500	Pass
High	2462	16.243	500	Pass







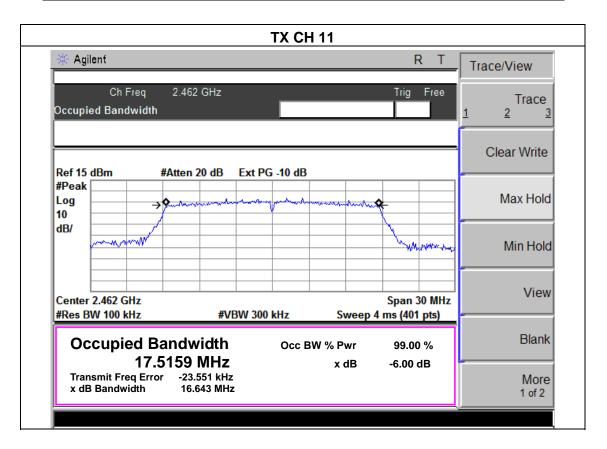
EUT : Tablet PC Model Name : A100

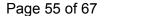
Temperature : 25 °C Relative Humidity : 56%

Pressure : 1012 hPa Test Voltage : DC 5V FROM ADAPTER

Test Mode : TX n Mode(20M) /CH01, CH06, CH11

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.424	500	Pass
Middle	2437	16.285	500	Pass
High	2462	16.643	500	Pass







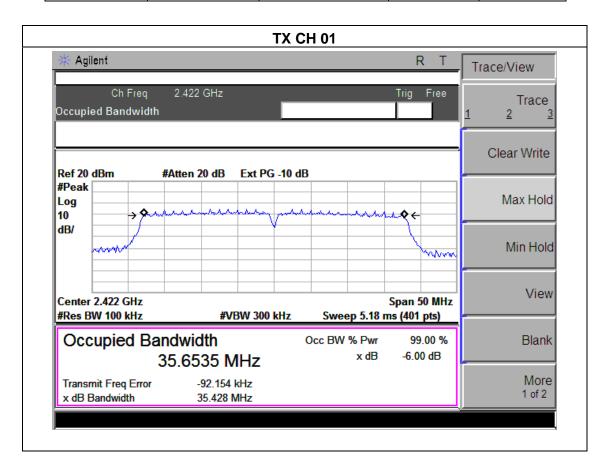
EUT: Tablet PC Model Name: A100

Temperature: 25 °C Relative Humidity: 56%

Pressure: 1012 hPa Test Voltage: DC 5V FROM ADAPTER

Test Mode: TX n Mode(40M)/CH03,06,09

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.428	500	Pass
Middle	2437	35.099	500	Pass
High	2452	35.347	500	Pass





RECISE TESTING

6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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



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6.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	A100
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V FROM ADAPTER
Test Mode :	TX b/g/n20/n40		

TX 802.11b Mode					
Test Channe	Frequency	Maximum Conducted Output Power(PK)	Maximum Conducted Output Power(AV)	LIMIT	
	(MHz)			dBm	
CH01	2412	10.23	9.41	30	
CH06	2437	10.12	9.36	30	
CH11	2462	10.03	9.30	30	
		TX 802.11g Mo	de		
CH01	2412	10.13	9.21	30	
CH06	2437	9.98	9.35	30	
CH11	2462	9.71	9.28	30	
TX 802.11n20 Mode					
CH01	2412	9.21	8.45	30	
CH06	2437	9.29	8.50	30	
CH11	2462	9.25	8.29	30	
TX 802.11n40 Mode					
CH03	2422	9.53	8.46	30	
CH06	2437	8.54	8.32	30	
CH09	2452	8.31	8.21	30	

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7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated 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) (see §15.205(c)).

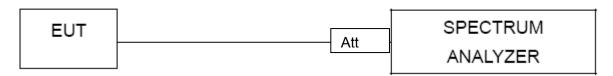
TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

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



FCISE TESTING

7.4 TEST RESULTS

EUT:	Tablet PC	Model Name :	A100
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 5V FROM ADAPTER

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result		
802.11b mode					
Left-band	38.14	20	Pass		
Right-band	48.74	20	Pass		
	802.11g mode				
Left-band	32.61	20	Pass		
Right-band	42.00	20	Pass		
802.11n20 mode					
Left-band	32.30	20	Pass		
Right-band	42.27	20	Pass		
802.11n40 mode					
Left-band	30.41	20	Pass		
Right-band	42.68	20	Pass		



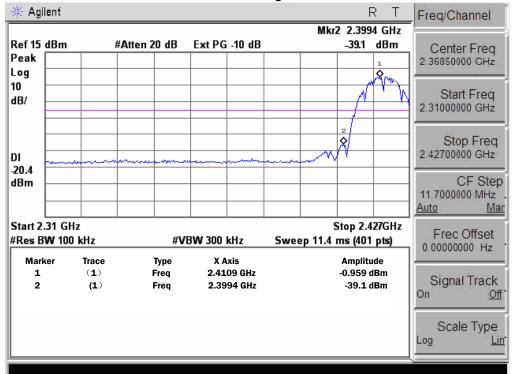
Meter Reading Factor **Emission Level** Limits Frequency Margin Detector Comment Type (dB) $(dB\mu V/m)$ $(dB\mu V/m)$ (dB) (MHz) (dBµV) 802.11b 2390 62.15 -13.06 49.09 74 -24.91 Vertical peak 2390 61.36 -13.06 48.30 74 -25.70 Horizontal peak 47.47 Vertical 2483.5 60.25 -12.78 74 -26.53 peak 47.08 2483.5 59.86 -12.78 74 -26.92 peak Horizontal 802.11g -13.06 2390 61.52 48.46 74 -25.54 Vertical peak 2390 59.84 -13.06 46.78 74 -27.22 peak Horizontal -12.78 2483.5 61.36 48.58 74 -25.42 Vertical peak 2483.5 59.54 -12.78 46.76 74 -27.24 peak Horizontal 802.11n20 2390 62.58 -13.06 49.52 74 -24.48 peak Vertical 61.35 2390 -13.06 48.29 74 -25.71 Horizontal peak 2483.5 62.52 -12.78 49.74 74 -24.26 Vertical peak 2483.5 60.87 -12.78 48.09 74 -25.91 peak Horizontal 802.11n40 2390 61.24 -13.06 48.18 74 -25.82 peak Vertical 2390 60.21 -13.06 47.15 74 -26.85 peak Horizontal 2483.5 61.73 -12.78 48.95 74 -25.05 peak Vertical 2483.5 60.03 -12.78 47.25 74 -26.75 Horizontal peak

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

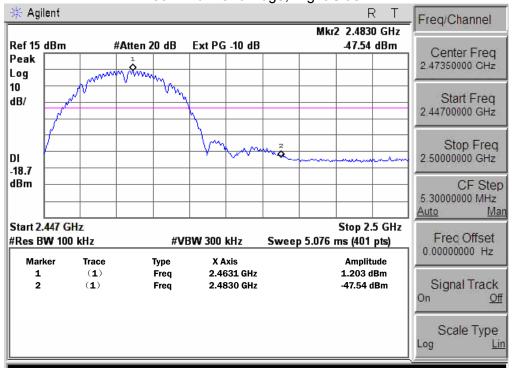


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802.11b: Band Edge, Left Side

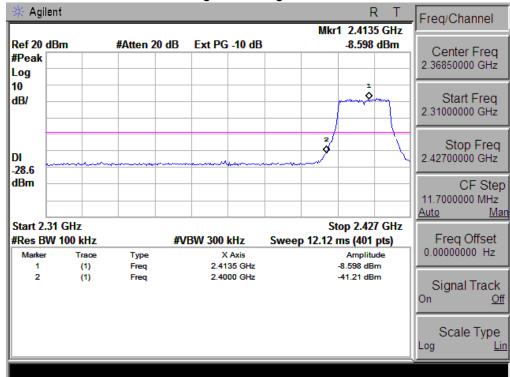


802.11b: Band Edge, Right Side

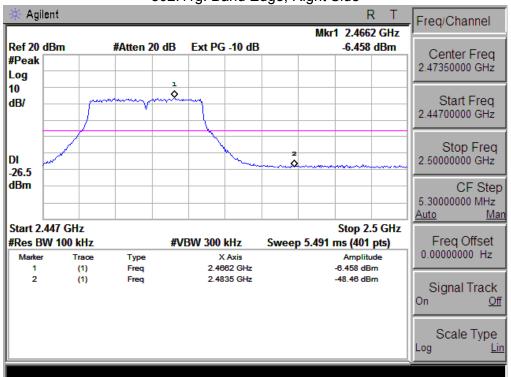




802.11g: Band Edge, Left Side

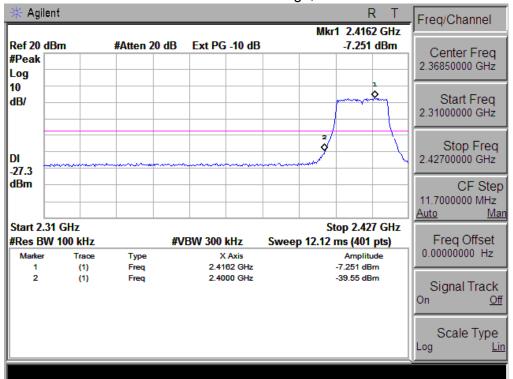


802.11g: Band Edge, Right Side

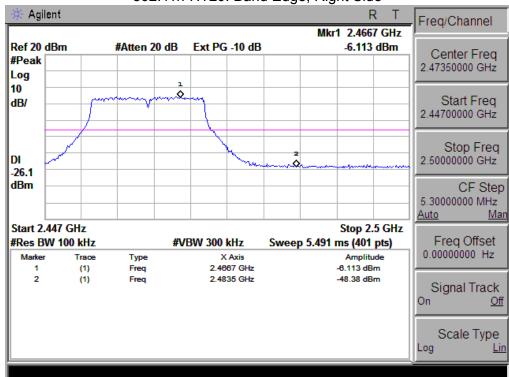




802.11n-HT20: Band Edge, Left Side

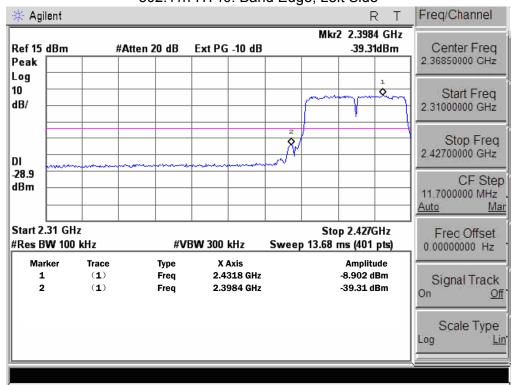


802.11n-HT20: Band Edge, Right Side





802.11n-HT40: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



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8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

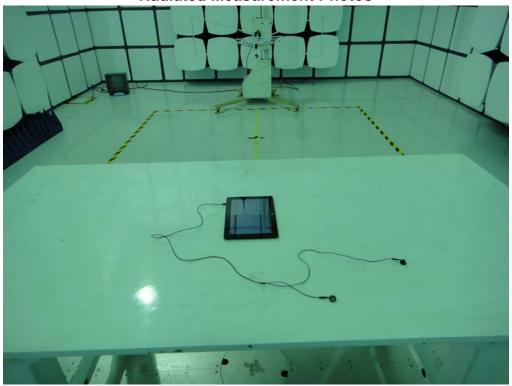
The EUT antenna is built-in antenna antenna. It comply with the standard requirement.

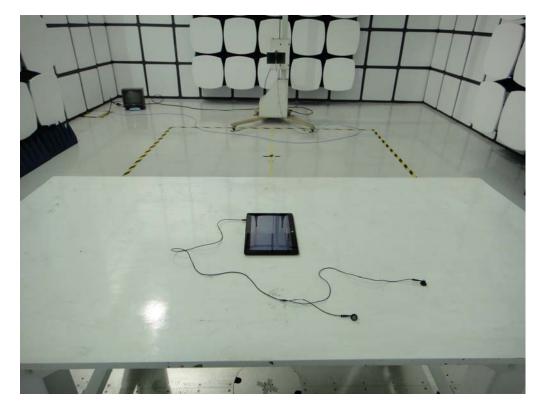


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9. EUT TEST PHOTO



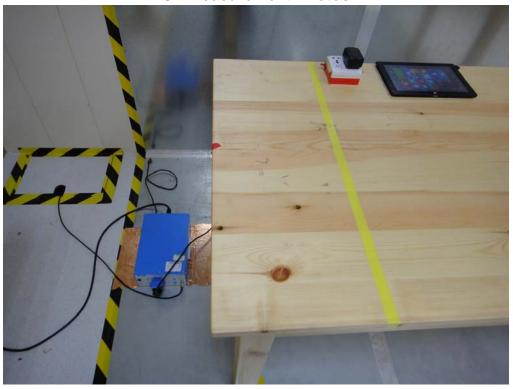






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END OF REPORT