



Test Report

Product Name	Tablet PC
Model No.	xTablet [®] T7200, Fieldbook A2, T7Q, a7360X, a7380X
FCC ID	FKGT7Q

Applicant	Twinhead International Corp
Address	10F, 550 Rueiguand Rd Neihu, Taipei, Taiwan 114, ROC

Date of Receipt	Feb. 21, 2012
Issued Date	Apr. 18, 2012
Report No.	122393R-RFUSP39V01
Report Version	V1.0



The test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: Apr. 18, 2012

Report No.: 122393R-RFUSP39V01



Product Name	Tablet PC
Applicant	Twinhead International Corp
Address	10F, 550 Rueiguand Rd Neihu, Taipei, Taiwan 114, ROC
Manufacturer	Twinhead International Corp
Model No.	xTablet® T7200, Fieldbook A2, T7Q, a7360X, a7380X
FCC ID.	FKGT7Q
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	MobileDemand, LOGIC INSTRUMENT, DURABOOK, tabletkiosk
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2010 ANSI C63.4: 2003
Test Result	Complied

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Approved By : [Signature]
(Manager / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Tablet PC
Trade Name	MobileDemand, LOGIC INSTRUMENT, DURABOOK, tabletkiosk
Model No.	xTablet®T7200, Fieldbook A2, T7Q, a7360X, a7380X
FCC ID	FKGT7Q
Frequency Range	13.56MHz
Channel Control	N/A
Antenna Type	PCB Antenna
Power Adapter	MFR: FSP GROUP, M/N: FSP065-RAB Input: AC 100-240V, 50-60Hz, 1.5A Output: DC 19V, 3.42A Cable out: Non-Shielded, 1.8m, with one ferrite core bonded. Power Cord: Non-Shielded, 1.8m

Frequency of Each Channel:

Channel	Frequency
Channel 1:	13.56 MHz

Note:

1. This device is a Tablet PC, Contains functions and so on WiFi 、Bluetooth 、RFID 、GPS , This report for RFID.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.225 for spread spectrum devices.
3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
4. The different of the each model is shown as below:

Model	Trademark
xTablet®T7200	MobileDemand
Fieldbook A2	LOGIC INSTRUMENT
T7Q	DURABOOK
a7360X/a7380X	tabletkiosk

NOTE: I/O Port and appearance of buttons in each model is not the same.(See internal photos)

Test Mode	Mode 1: Transmit mode
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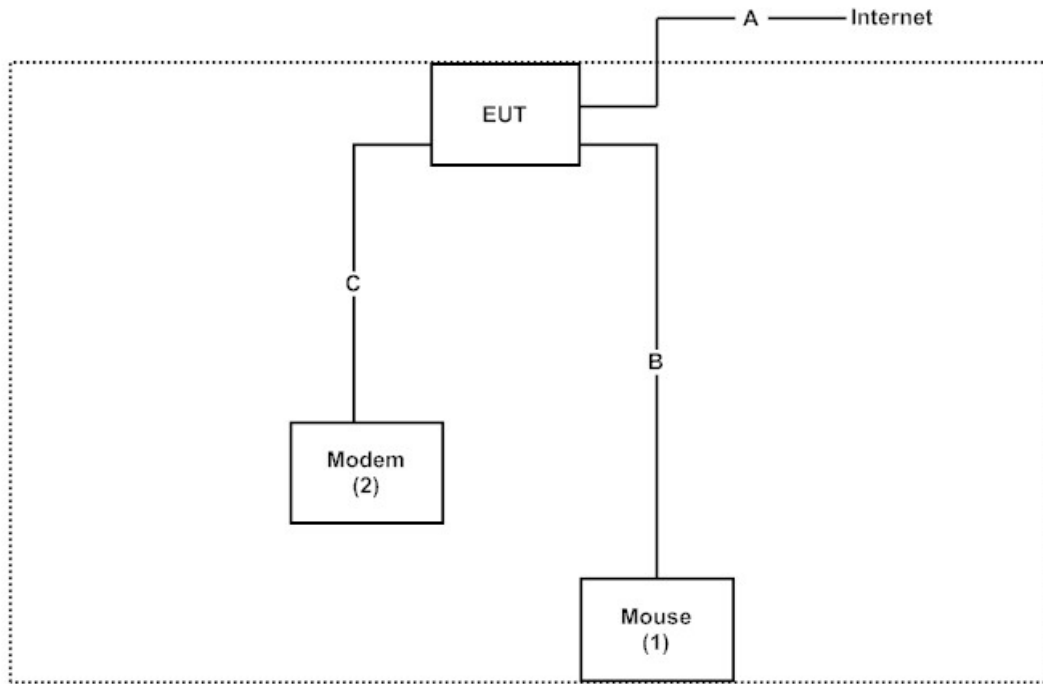
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) USB Mouse	Logitech	M-U0003	LZ024HR	N/A
(2) Modem	ACEEX	DM-1414	0102027558	Non-Shielded, 1.8m

Signal Cable Type	Signal cable Description
A LAN Cable	Non-Shielded, 2m
B Mouse Cable	Non-Shielded, 1.8m
C Modem Cable	Non-Shielded, 1.5m

1.4. Configuration of tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute program on the EUT.
- (3) Configure the test mode, the test channel.
- (4) Press “OK” to start the continuous transmitter.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

Quietek Corporation's Web Site : <http://tw.quietek.com/tw/emc/accreditations/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation
Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

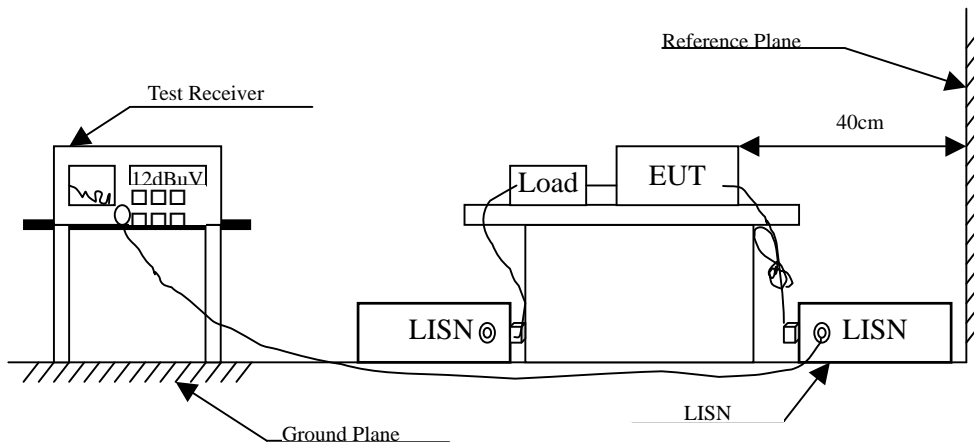
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2011	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2012	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2012	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2012	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2012	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBUV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Tablet PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.185	9.840	40.870	50.710	-14.290	65.000
0.291	9.840	29.530	39.370	-22.601	61.971
0.701	9.840	31.390	41.230	-14.770	56.000
1.279	9.850	22.260	32.110	-23.890	56.000
3.209	9.870	19.010	28.880	-27.120	56.000
15.787	10.130	25.250	35.380	-24.620	60.000
Average					
0.185	9.840	22.580	32.420	-22.580	55.000
0.291	9.840	13.810	23.650	-28.321	51.971
0.701	9.840	17.980	27.820	-18.180	46.000
1.279	9.850	3.160	13.010	-32.990	46.000
3.209	9.870	2.730	12.600	-33.400	46.000
15.787	10.130	17.720	27.850	-22.150	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Tablet PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.193	9.840	40.000	49.840	-14.931	64.771
0.310	9.840	27.820	37.660	-23.769	61.429
0.388	9.840	28.510	38.350	-20.850	59.200
0.564	9.840	33.520	43.360	-12.640	56.000
0.736	9.840	22.250	32.090	-23.910	56.000
16.384	10.240	25.580	35.820	-24.180	60.000
Average					
0.193	9.840	26.250	36.090	-18.681	54.771
0.310	9.840	14.810	24.650	-26.779	51.429
0.388	9.840	18.000	27.840	-21.360	49.200
0.564	9.840	18.290	28.130	-17.870	46.000
0.736	9.840	11.720	21.560	-24.440	46.000
16.384	10.240	18.810	29.050	-20.950	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Radiated Emission

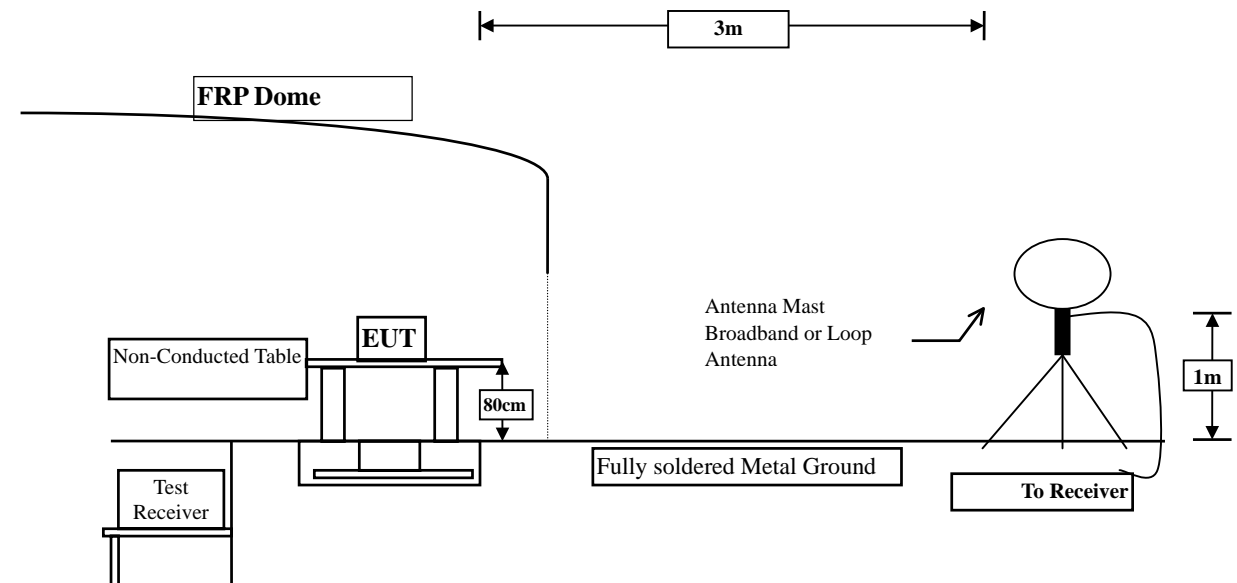
3.1. Test Equipment

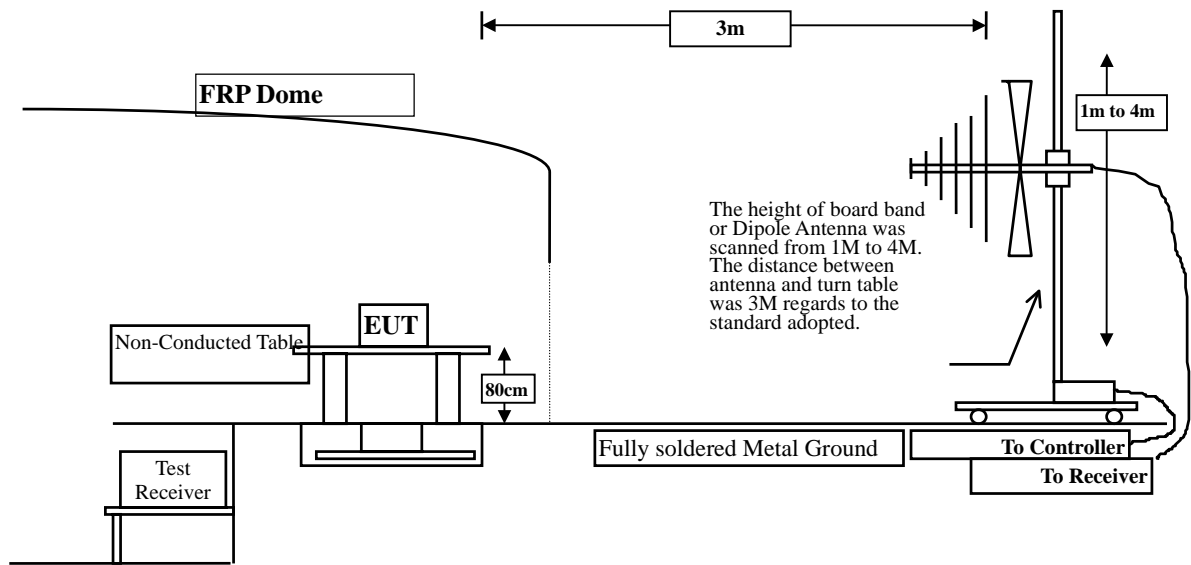
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2011
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2011
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2011
		Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2011
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2012
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2011
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2011
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2012
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup





3.3. Limits

➤ Fundamental electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.225 Limits				
Fundamental Frequency MHz	Field strength of fundamental			
	uV/m	Distance (meter)	dBuV/m	Distance (meter)
13.553 – 13.567	15848	30	124	3
13.410 – 13.553 and 13.567 – 13.710	334	30	90.47	3
13.110 – 13.410 and 13.710 – 14.010	106	30	80.50	3
Outside of the 13.110 – 14.010	See 15.209 Limits			

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

➤ Spurious electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.209 Limits			
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	See Remark ¹	300
0.490-1.705	24000/F(kHz)	See Remark ¹	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Test Procedure

Fundamental electric field strength:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. First rotating antenna to confirm the fundamental strength, determine the angle of the antenna maximum polarization. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

Spurious electric field strength:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. First rotating antenna to confirm the fundamental strength, determine the angle of the antenna maximum polarization. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 on radiated measurement.

On any frequency the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

3.5. Uncertainty

± 2.6 dB below 30MHz

± 3.8 dB above 30MHz

3.6. Test Result of Radiated Emission

Product : Tablet PC
 Test Item : Fundamental Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
X-axis					
Quasi-Peak					
13.560	19.598	31.680	51.278	-72.722	124.000
Y-axis					
Quasi-Peak					
13.560	19.598	28.920	48.518	-75.482	124.000
Z-axis					
Quasi-Peak					
13.560	19.598	27.160	46.758	-77.242	124.000

Note:

1. $\text{Limit} = 84 \text{dBuV/m} + 40 * \text{Log} (30(\text{m})/3(\text{m})) = 124 \text{dBuV/m}$
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Tablet PC
 Test Item : General Radiated Emission Data (below 30MHz)
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level	dB	dBuV/m
	dB	dBuV	dBuV/m		
27.120	19.256	18.440	37.696	-31.844	69.540

Note:

1. $\text{Limit} = 29.54 \text{ dBuV/m} + 40 * \text{Log} (30(\text{m})/3(\text{m})) = 69.54 \text{ dBuV/m}$
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. "■" means the worst emission level.
4. $\text{Measurement Level} = \text{Reading Level} + \text{Correct Factor}.$

Product : Tablet PC
 Test Item : General Radiated Emission Data (above 30MHz)
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
QP Detector					
121.180	-7.289	34.754	27.465	-16.035	43.500
359.800	-0.226	29.153	28.927	-17.073	46.000
398.600	0.879	32.104	32.983	-13.017	46.000
540.220	3.499	23.630	27.129	-18.871	46.000
629.460	1.212	31.006	32.218	-13.782	46.000
864.200	6.329	24.076	30.405	-15.595	46.000
Vertical					
QP Detector					
121.180	-3.559	34.859	31.300	-12.200	43.500
179.380	-0.824	27.247	26.423	-17.077	43.500
344.280	-0.584	23.941	23.357	-22.643	46.000
540.220	2.169	25.950	28.119	-17.881	46.000
672.140	-0.561	27.673	27.112	-18.888	46.000
901.060	1.858	25.160	27.018	-18.982	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

4. Band Edge

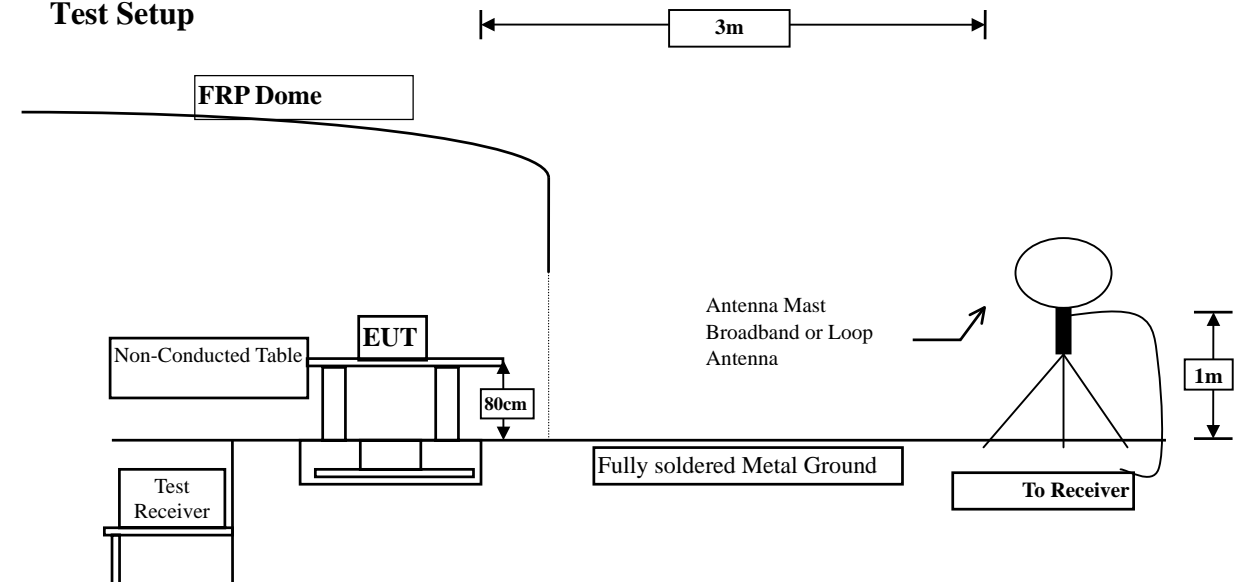
4.1. Test Equipment

The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2011
		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2011
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2011
		Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2011
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2012
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2011
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2011
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2012
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup



4.3. Limits

In any 9 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50 dB below that in the 9 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. First rotating antenna to confirm the fundamental strength, determine the angle of the antenna maximum polarization. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 on radiated measurement.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

4.5. Uncertainty

Radiated is ± 2.6 dB

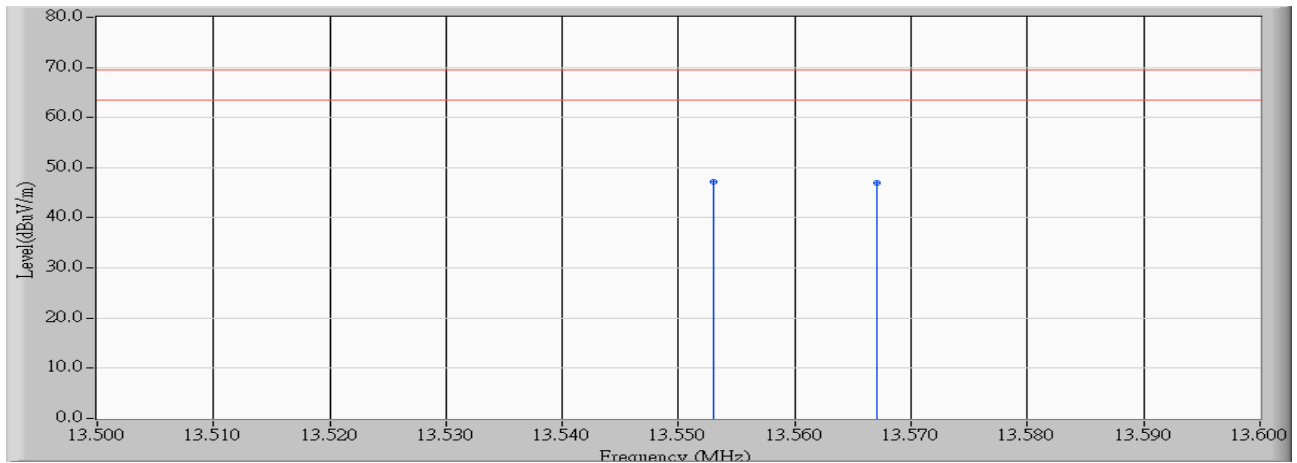
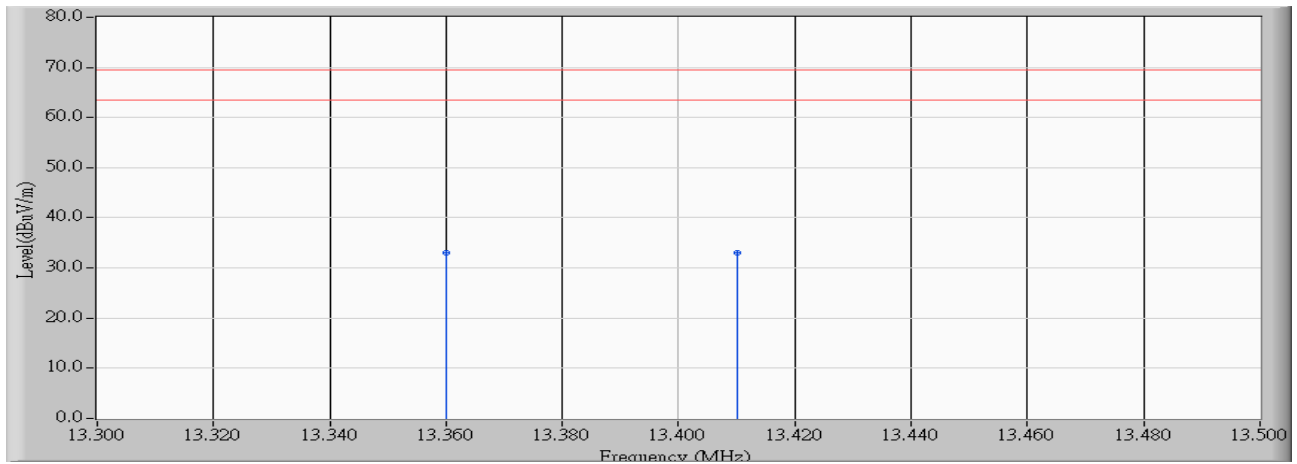
4.6. Test Result of Band Edge

Product : Tablet PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

RF Radiated Measurement :

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	QP Limit (dBuV/m)	Result
1 (Quasi-Peak)	13.360	19.591	13.500	33.091	69.540	Pass
2 (Quasi-Peak)	13.410	19.600	13.340	32.940	69.540	Pass
3 (Quasi-Peak)	13.553	19.599	27.630	47.229	69.540	Pass
4 (Quasi-Peak)	13.567	19.598	27.460	47.058	69.540	Pass

Figure Channel 1:



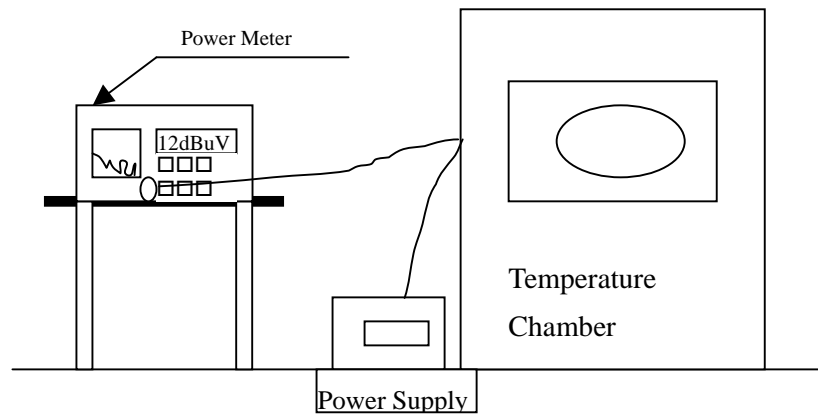
5. Frequency Tolerance

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2011
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2011
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012
X	Temperature Chamber	TDE	CHM 150CT	March, 2012

Note: All equipments are calibrated every one year.

5.2. Test Setup



5.3. Limits

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency.

5.4. Test Procedure

The over operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.5. Uncertainty

± 150 Hz

5.6. Test Result of Frequency Stability

Product : Tablet PC
 Test Item : Frequency Tolerance
 Test Site : Temperature Chamber
 Test Mode : Mode 1: Transmit mode

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency (MHz)	Read Frequency (MHz)	Tolerance (%)	Limit (%)
20	120	start	13.56	13.5607	0.005162	± 0.01 %
		2mins	13.56	13.5607	0.005162	
		5mins	13.56	13.5606	0.004425	
		10mins	13.56	13.5607	0.005162	
20	132	start	13.56	13.5608	0.005900	± 0.01 %
		2mins	13.56	13.5608	0.005900	
		5mins	13.56	13.5608	0.005900	
		10mins	13.56	13.5607	0.005162	
20	108	start	13.56	13.5606	0.004425	± 0.01 %
		2mins	13.56	13.5605	0.003687	
		5mins	13.56	13.5606	0.004425	
		10mins	13.56	13.5606	0.004425	
50	120	start	13.56	13.5607	0.008850	± 0.01 %
		2mins	13.56	13.5607	0.007375	
		5mins	13.56	13.5606	0.009587	
		10mins	13.56	13.5607	0.008850	
40	120	start	13.56	13.5608	0.008850	± 0.01 %
		2mins	13.56	13.5608	0.008850	
		5mins	13.56	13.5608	0.008850	
		10mins	13.56	13.5607	0.008850	
30	120	start	13.56	13.5606	0.007375	± 0.01 %
		2mins	13.56	13.5605	0.008850	
		5mins	13.56	13.5606	0.008112	
		10mins	13.56	13.5606	0.008850	

10	120	start	13.56	13.5612	-0.007375	± 0.01 %
		2mins	13.56	13.5590	-0.007375	
		5mins	13.56	13.5590	-0.007375	
		10mins	13.56	13.5590	-0.007375	
0	120	start	13.56	13.5590	0.005162	± 0.01 %
		2mins	13.56	13.5607	0.006637	
		5mins	13.56	13.5609	0.006637	
		10mins	13.56	13.5609	0.005900	
-10	120	start	13.56	13.5608	0.005162	± 0.01 %
		2mins	13.56	13.5607	0.006637	
		5mins	13.56	13.5609	0.005900	
		10mins	13.56	13.5608	0.006637	
-20	120	start	13.56	13.5609	0.006637	± 0.01 %
		2mins	13.56	13.5609	0.005900	
		5mins	13.56	13.5608	0.005900	
		10mins	13.56	13.5608	0.006637	

Note: Limit= Ref. Freq. * (±) 0.01% = 13.55952~13.56223MHz

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.