



## Test Report

Product Name	ASUS Tablet
Model No.	TF810C
FCC ID	MSQTF810C

Applicant	ASUSTeK COMPUTER INC.
Address	No. 15, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	June. 08, 2012
Issued Date	July. 17, 2012
Report No.	126213R-RFUSP39V01
Report Version	V1.0



The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

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

# Test Report Certification

Issued Date: July. 17, 2012

Report No.: 126213R-RFUSP39V01



Product Name	ASUS Tablet
Applicant	ASUSTeK COMPUTER INC.
Address	No. 15, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	1. PEGATRON CORPORATION Taoyuan Mfg 2. Protek (Shanghai) Limited. 3. Tech-Com(Shanghai) Computer Co.Ltd. 4. Wistron InfoComm(Kunshan) Co., Ltd.
Model No.	TF810C
FCC ID.	MSQTF810C
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2010 ANSI C63.4: 2003
Test Result	Complied

Test results relate only to the samples tested.

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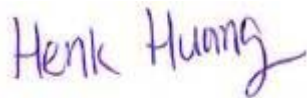
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented By :



(Senior Adm. Specialist / Leven Huang )

Tested By :



( Engineer / Henk Huang )

Approved By :



( Manager / Vincent Lin )

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	ASUS Tablet
Trade Name	ASUS
Model No.	TF810C
FCC ID	MSQTF810C
Frequency Range	13.56MHz
Modulation	ASK
Antenna Type	Loop Antenna
Power Adapter	MFR: DELTA, M/N: ADP-18BW A Input: 100-240V~0.5A, 50-60Hz Output: 15V $\overline{=}$ 1.2A or 5V $\overline{=}$ 2A
USB Cable	Shielded, 1.5m

Frequency of Each Channel:

Channel	Frequency
Channel 1:	13.56 MHz

Note:

1. This device is an ASUS Tablet with a built-in 13.56MHz transceiver.
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
3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

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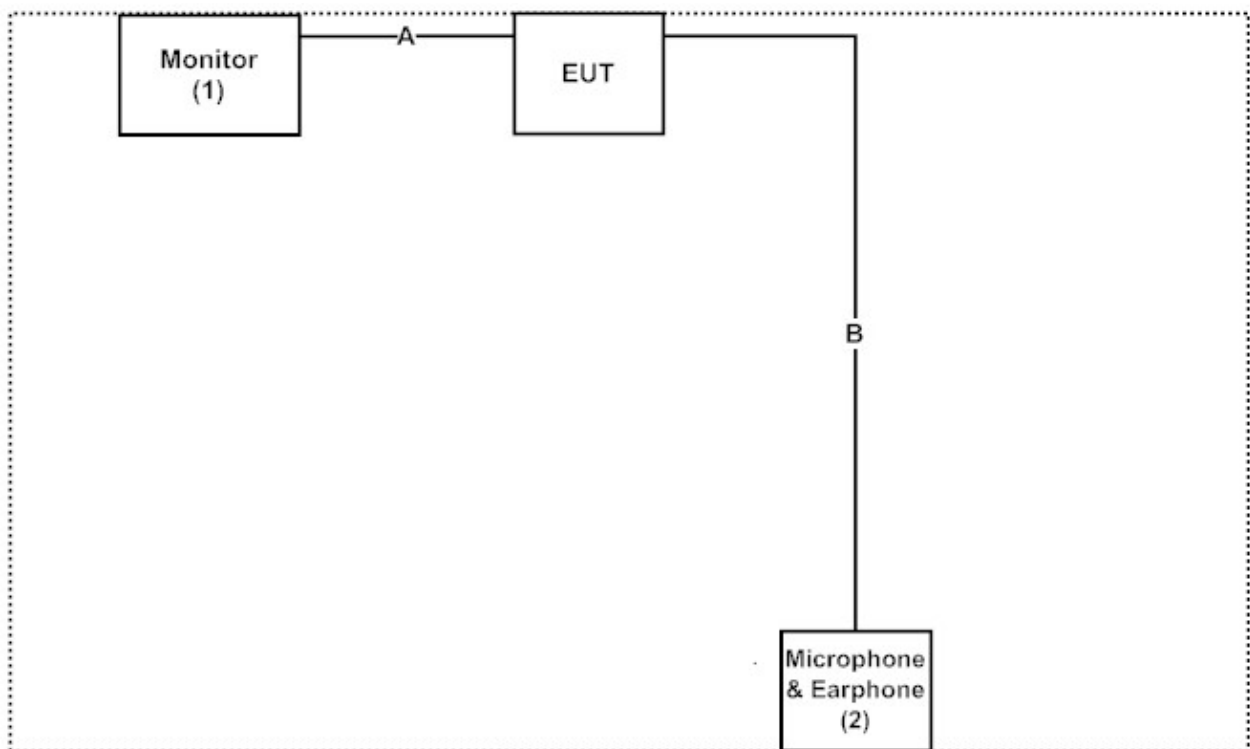
### 1.3. Tested System Details

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)	Monitor	LG	W2261VT	907YHPB07296	Non-Shielded, 1.8m
(2)	Microphone & Earphone	PCHOME	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A	HDMI Cable Shielded, 1.7m
B	Microphone & Earphone Cable Non-Shielded, 2.0m

### 1.4. Configuration of tested System



### 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute Software on the EUT.
- (3) Start the continuous transmitter.
- (4) 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://www.quietek.com/tw/ctg/cts/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, Ruishukeng,  
Linkou Dist. New Taipei City 24451,  
Taiwan, R.O.C.  
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E-Mail : [service@quietek.com](mailto:service@quietek.com)

FCC Accreditation Number: TW1014

## 2. Conducted Emission

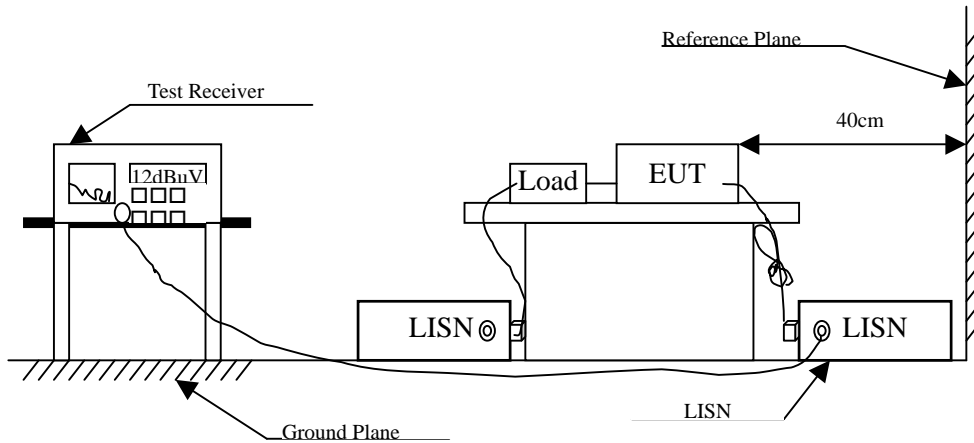
### 2.1. Test Equipment

	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**

<b>FCC Part 15 Subpart C Paragraph 15.207 (dBUV) Limit</b>		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 <sub>(註)</sub>	56-46 <sub>(註)</sub>
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 : ASUS Tablet  
 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
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.224	9.670	44.120	53.790	-10.096	63.886
0.302	9.640	40.920	50.560	-11.097	61.657
0.338	9.640	37.310	46.950	-13.679	60.629
0.451	9.640	37.230	46.870	-10.530	57.400
0.505	9.640	33.110	42.750	-13.250	56.000
6.666	9.720	26.730	36.450	-23.550	60.000
<b>Average</b>					
0.224	9.670	34.310	43.980	-9.906	53.886
0.302	9.640	26.060	35.700	-15.957	51.657
0.338	9.640	31.700	41.340	-9.289	50.629
0.451	9.640	30.240	39.880	-7.520	47.400
0.505	9.640	28.080	37.720	-8.280	46.000
6.666	9.720	19.260	28.980	-21.020	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 : ASUS Tablet  
 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
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.224	9.670	37.260	46.930	-16.956	63.886
0.298	9.646	35.600	45.246	-16.525	61.771
0.451	9.650	37.980	47.630	-9.770	57.400
0.525	9.650	32.420	42.070	-13.930	56.000
0.935	9.690	30.000	39.690	-16.310	56.000
1.427	9.690	28.680	38.370	-17.630	56.000
<b>Average</b>					
0.224	9.670	36.050	45.720	-8.166	53.886
0.298	9.646	24.940	34.586	-17.185	51.771
0.451	9.650	26.000	35.650	-11.750	47.400
0.525	9.650	24.840	34.490	-11.510	46.000
0.935	9.690	21.880	31.570	-14.430	46.000
1.427	9.690	23.890	33.580	-12.420	46.000

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

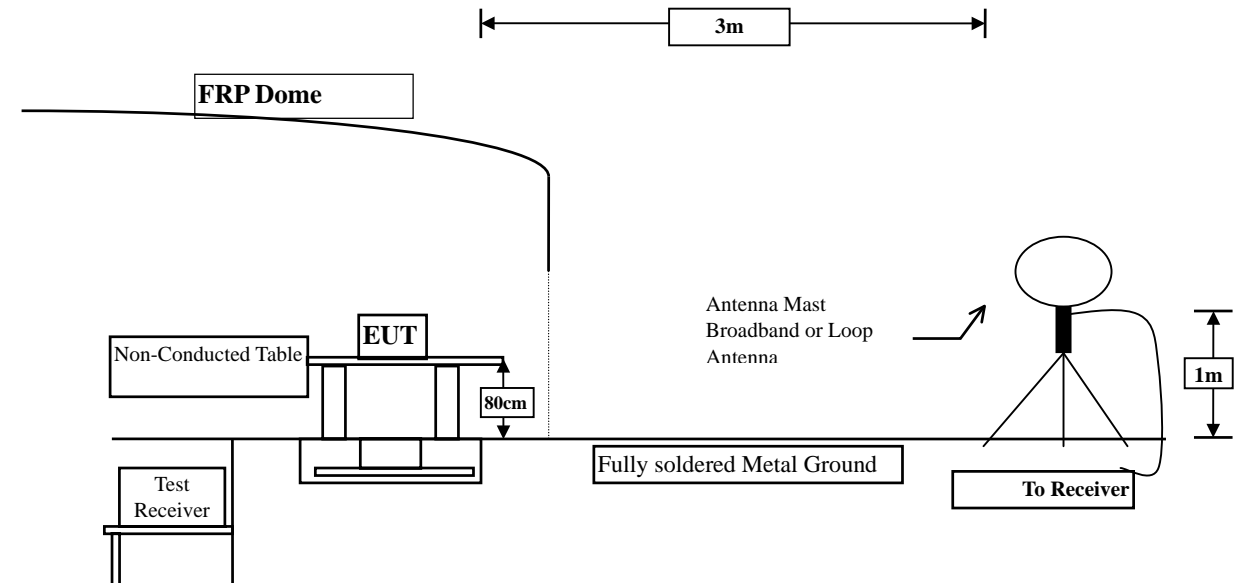
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
	X	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2011
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2012
	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

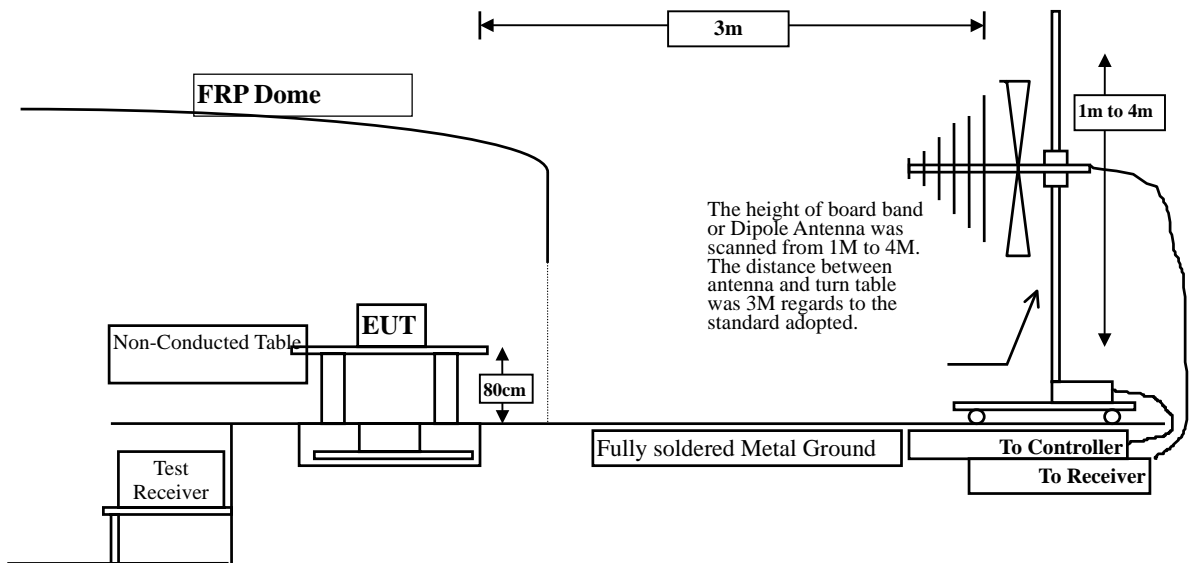
- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.  
 2. The test instruments marked with “X” are used to measure the final test results.

#### 3.2. Test Setup

9kHz~30MHz



30MHz~1GHz



### 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 <sup>1</sup>	300
0.490-1.705	24000/F(kHz)	See Remark <sup>1</sup>	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 1 meter above ground. 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. 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 : ASUS Tablet  
 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
<b>X-axis</b>					
<b>Quasi-Peak</b>					
<b>Horizontal</b>					
13.560	20.040	25.567	45.607	-74.393	120.000
<b>Vertical</b>					
13.560	20.040	23.215	43.255	-76.745	120.000
<b>Y-axis</b>					
<b>Quasi-Peak</b>					
<b>Horizontal</b>					
13.560	20.040	25.267	45.307	-74.693	120.000
<b>Vertical</b>					
13.560	20.040	23.155	43.195	-76.805	120.000
<b>Z-axis</b>					
<b>Quasi-Peak</b>					
<b>Horizontal</b>					
13.560	20.040	18.432	38.472	-81.528	120.000
<b>Vertical</b>					
13.560	20.040	17.052	37.092	-82.908	120.000

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 : ASUS Tablet  
 Test Item : General Radiated Emission Data (below 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
<b>Horizontal</b>					
27.120	19.860	15.011	34.871	-34.669	69.540
<b>Vertical</b>					
27.120	19.860	11.123	30.983	-38.557	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 : ASUS Tablet  
 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
<b>Horizontal</b>					
<b>QP Detector</b>					
286.080	-4.687	26.348	21.661	-24.339	46.000
371.440	-1.097	25.222	24.125	-21.875	46.000
516.940	1.654	23.397	25.051	-20.949	46.000
623.640	1.959	24.639	26.598	-19.402	46.000
780.780	4.230	24.301	28.531	-17.469	46.000
930.160	7.187	22.461	29.648	-16.352	46.000
<b>Vertical</b>					
<b>QP Detector</b>					
200.720	-7.835	29.907	22.072	-21.428	43.500
371.440	-2.737	25.222	22.485	-23.515	46.000
472.320	-4.613	26.822	22.209	-23.791	46.000
575.140	-5.617	22.754	17.137	-28.863	46.000
695.420	1.878	22.776	24.654	-21.346	46.000
930.160	6.477	22.461	28.938	-17.062	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

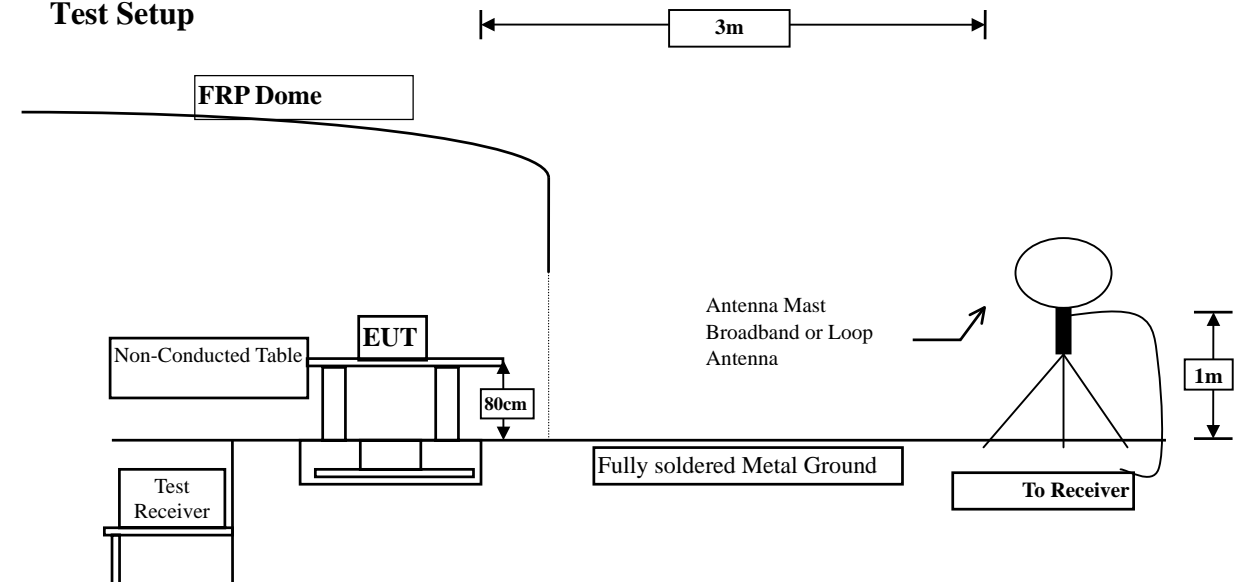
### 4.1. Test Equipment

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., 2012
		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
		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, 2012
	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. 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  $\pm 2.6$  dB

#### 4.6. Test Result of Band Edge

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

#### RF Radiated Measurement

##### (Horizontal)

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	QP Limit (dBuV/m)	Result
13.110	20.020	12.945	32.965	69.540	Pass
13.360	20.031	14.887	34.918	69.540	Pass
13.410	20.040	15.325	35.365	69.540	Pass
14.010	20.060	15.433	35.493	69.540	Pass

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

##### (Vertical)

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	QP Limit (dBuV/m)	Result
13.110	20.020	11.190	31.210	69.540	Pass
13.360	20.031	12.116	32.147	69.540	Pass
13.410	20.040	11.795	31.835	69.540	Pass
14.010	20.060	13.054	33.114	69.540	Pass

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

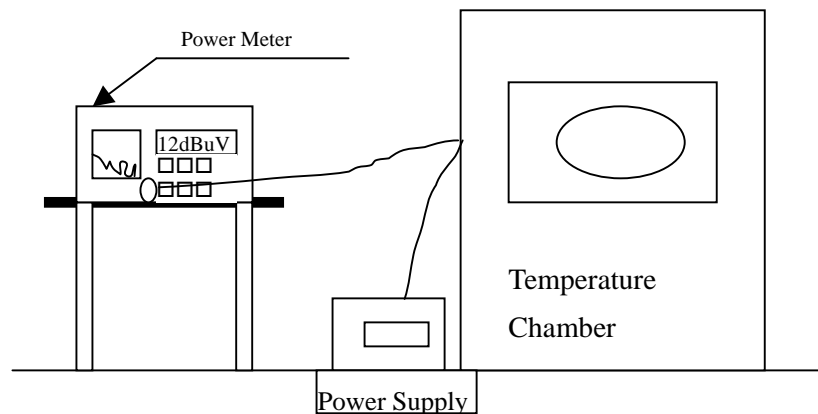
## 5. Frequency Tolerance

### 5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
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

$\pm 150$  Hz

## 5.6. Test Result of Frequency Stability

Product : ASUS Tablet  
 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	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	
20	138	start	13.56	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	
20	102	start	13.56	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	
50	120	start	13.56	13.56048	0.003540	± 0.01 %
		2mins	13.56	13.56048	0.003540	
		5mins	13.56	13.56048	0.003540	
		10mins	13.56	13.56048	0.003540	
40	120	start	13.56	13.56051	0.003761	± 0.01 %
		2mins	13.56	13.56051	0.003761	
		5mins	13.56	13.56051	0.003761	
		10mins	13.56	13.56051	0.003761	
30	120	start	13.56	13.56053	0.003909	± 0.01 %
		2mins	13.56	13.56053	0.003909	
		5mins	13.56	13.56053	0.003909	
		10mins	13.56	13.56053	0.003909	

10	120	start	13.56	13.56055	0.004056	± 0.01 %
		2mins	13.56	13.56055	0.004056	
		5mins	13.56	13.56055	0.004056	
		10mins	13.56	13.56055	0.004056	
0	120	start	13.56	13.56057	0.004204	± 0.01 %
		2mins	13.56	13.56057	0.004204	
		5mins	13.56	13.56057	0.004204	
		10mins	13.56	13.56057	0.004204	
-10	120	start	13.56	13.56057	0.004204	± 0.01 %
		2mins	13.56	13.56057	0.004204	
		5mins	13.56	13.56057	0.004204	
		10mins	13.56	13.56057	0.004204	
-20	120	start	13.56	13.56057	0.004204	± 0.01 %
		2mins	13.56	13.56057	0.004204	
		5mins	13.56	13.56057	0.004204	
		10mins	13.56	13.56057	0.004204	

## 6. EMI Reduction Method During Compliance Testing

No modification was made during testing.