



Test Report

Product Name	Wireless Tablet
Model No.	TWHL850
FCC ID.	DoC

Applicant	UC-Logic Technology Corp.
Address	2F-9, No. 14, Lane 609, Sec. 5, Chung Hsing Rd., San-Chung Dist., New Taipei City 241, Taiwan (R.O.C.)

Date of Receipt	Jan. 03, 2011
Issued Date	Jan. 18, 2011
Report No.	111172R-RFUSP37V02
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: Jan. 18, 2011

Report No. : 111172R-RFUSP37V02



Product Name	Wireless Tablet
Applicant	UC-Logic Technology Corp.
Address	2F-9, No. 14, Lane 609, Sec. 5, Chung Hsing Rd., San-Chung Dist., New Taipei City 241, Taiwan (R.O.C.)
Manufacturer	UC-Logic Technology Corp.
Model No.	TWHL850
FCC ID.	DoC
EUT Rated Voltage	DC 3V(Power by battery)
EUT Test Voltage	DC 3V(Power by battery)
Trade Name	UC-Logic
Applicable Standard	FCC CFR Title 47 Part 15 Subpart B: 2009 ANSI C63.4: 2003
Test Result	Complied

The test results relate only to the samples tested.

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Documented By :

A handwritten signature in blue ink that reads "Genie Chang".

(Senior Adm. Specialist / Genie Chang)



Tested By :

A handwritten signature in blue ink that reads "Joe Guo".

(Engineer / Joe Guo)



Approved By :

A handwritten signature in blue ink that reads "Vincent Lin".

(Manager / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless Tablet
Trade Name	UC-Logic
Model No.	TWHL850
Frequency Range	2402~2479MHz
Channel Control	Auto
Channel Separation	1MHz
Antenna Type	Printed on PCB
Channel Number	78
Type of Modulation	MSK
USB Cable	Non-Shielded, 1.5m

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	UC-Logic Technology Corp.	N/A	-1.28dBi for 2.4 GHz

Note: The antenna of EUT is conform to FCC 15.203

Frequency of Each Channel

Channel 1:	2402 MHz	Channel 22:	2423 MHz	Channel 43:	2444 MHz	Channel 64:	2465 MHz
Channel 2:	2403 MHz	Channel 23:	2424 MHz	Channel 44:	2445 MHz	Channel 65:	2466 MHz
Channel 3:	2404 MHz	Channel 24:	2425 MHz	Channel 45:	2446 MHz	Channel 66:	2467 MHz
Channel 4:	2405 MHz	Channel 25:	2426 MHz	Channel 46:	2447 MHz	Channel 67:	2468 MHz
Channel 5:	2406 MHz	Channel 26:	2427 MHz	Channel 47:	2448 MHz	Channel 68:	2469 MHz
Channel 6:	2407 MHz	Channel 27:	2428 MHz	Channel 48:	2449 MHz	Channel 69:	2470 MHz
Channel 7:	2408 MHz	Channel 28:	2429 MHz	Channel 49:	2450 MHz	Channel 70:	2471 MHz
Channel 8:	2409 MHz	Channel 29:	2430 MHz	Channel 50:	2451 MHz	Channel 71:	2472 MHz
Channel 9:	2410 MHz	Channel 30:	2431 MHz	Channel 51:	2452 MHz	Channel 72:	2473 MHz
Channel 10:	2411 MHz	Channel 31:	2432 MHz	Channel 52:	2453 MHz	Channel 73:	2474 MHz
Channel 11:	2412 MHz	Channel 32:	2433 MHz	Channel 53:	2454 MHz	Channel 74:	2475 MHz
Channel 12:	2413 MHz	Channel 33:	2434 MHz	Channel 54:	2455 MHz	Channel 75:	2476 MHz
Channel 13:	2414 MHz	Channel 34:	2435 MHz	Channel 55:	2456 MHz	Channel 76:	2477 MHz
Channel 14:	2415 MHz	Channel 35:	2436 MHz	Channel 56:	2457 MHz	Channel 77:	2478 MHz
Channel 15:	2416 MHz	Channel 36:	2437 MHz	Channel 57:	2458 MHz	Channel 78:	2479 MHz
Channel 16:	2417 MHz	Channel 37:	2438 MHz	Channel 58:	2459 MHz		
Channel 17:	2418 MHz	Channel 38:	2439 MHz	Channel 59:	2460 MHz		
Channel 18:	2419 MHz	Channel 39:	2440 MHz	Channel 60:	2461 MHz		
Channel 19:	2420 MHz	Channel 40:	2441 MHz	Channel 61:	2462 MHz		
Channel 20:	2421 MHz	Channel 41:	2442 MHz	Channel 62:	2463 MHz		
Channel 21:	2422 MHz	Channel 42:	2443 MHz	Channel 63:	2464 MHz		

Note:

1. This device is a Wireless Tablet with a built-in 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart B for spread spectrum devices.

Test Mode:	Mode 1: Receive Mode
	Mode 2: Charge Mode

1.2. Tested System Details

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

Mode 1: Receive Mode

Product	Manufacturer	Model No.	Serial No.	Power Cord
N/A				

Mode 2: Charge Mode

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) Monitor	LG	W2261VT	907YHZK07373	Non-Shielded, 1.8m
(2) Notebook PC	DELL	PPT	N/A	Non-Shielded, 0.8m
(3) USB Mouse	DELL	M056U0A	F0Y01YE9	Non-Shielded, 1.8m
(4) Microphone & Earphone	PCHOME	N/A	N/A	Non-Shielded, 2.0m
(5) Modem	ACEEX	DM-1414	0102027553	Non-Shielded, 1.8m

Mode 1: Receive Mode

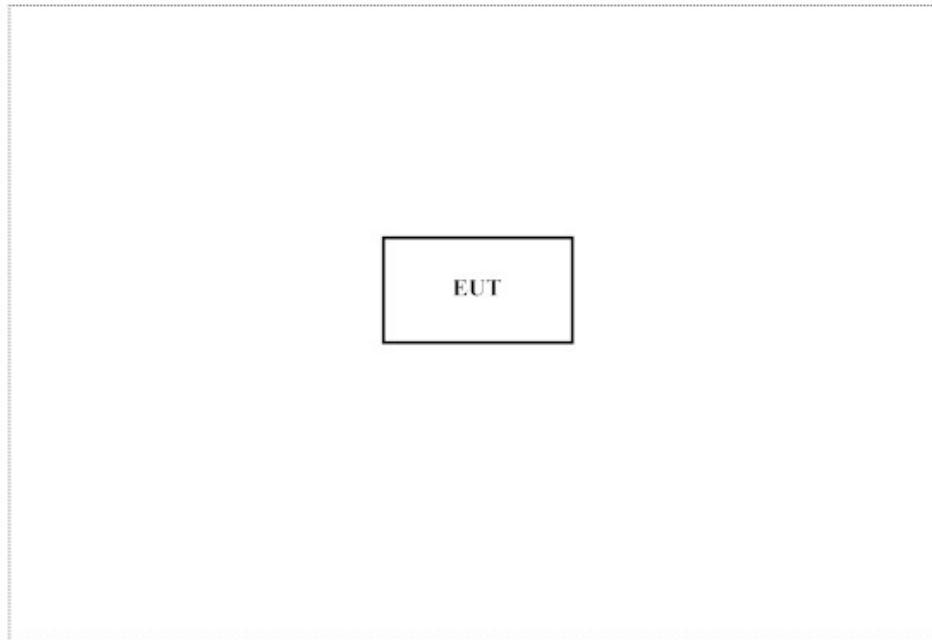
Signal Cable Type	Signal cable Description
	N/A

Mode 2: Charge Mode

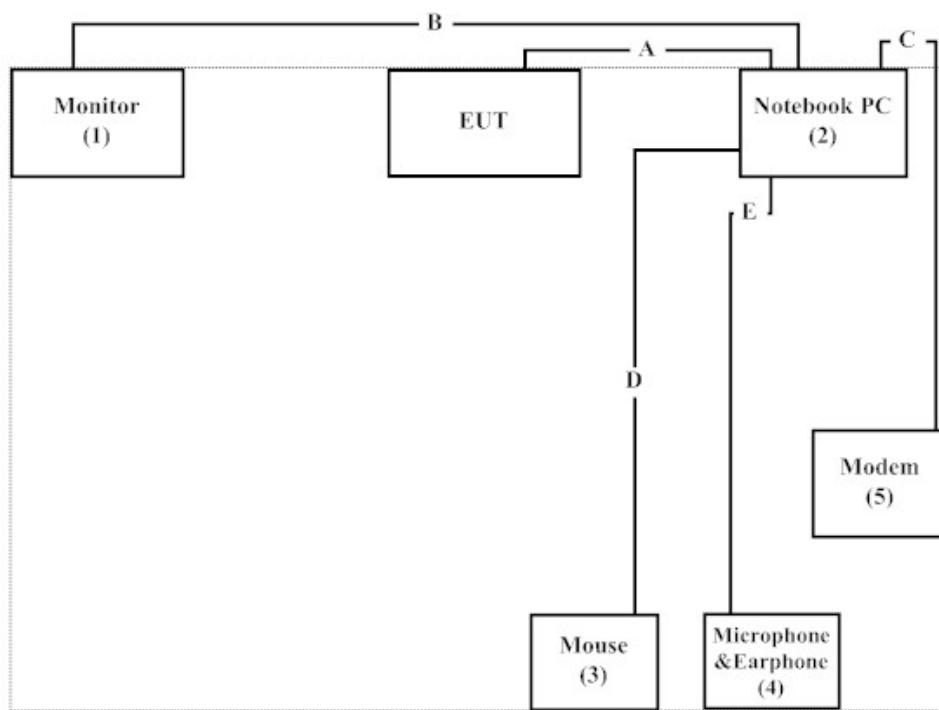
Signal Cable Type	Signal cable Description
A USB Cable	Non-Shielded, 1.5m
B D-SUB Cable	Shielded, 1.8mm, with two ferrite core bonded.
C Modem Cable	Shielded, 1.5m
D USB Mouse Cable	Shielded, 1.0m
E Microphone & Earphone Cable	Non-Shielded, 2.0m

1.3. Configuration of Tested System

Mode 1: Receive Mode



Mode 2: Charge Mode



1.4. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.3
- (2) Inserts the batteries, start continuous transmit.
- (3) Verify that the EUT works correctly.

1.5. 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

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FCC Accreditation Number: TW1014



2. Conducted Emission

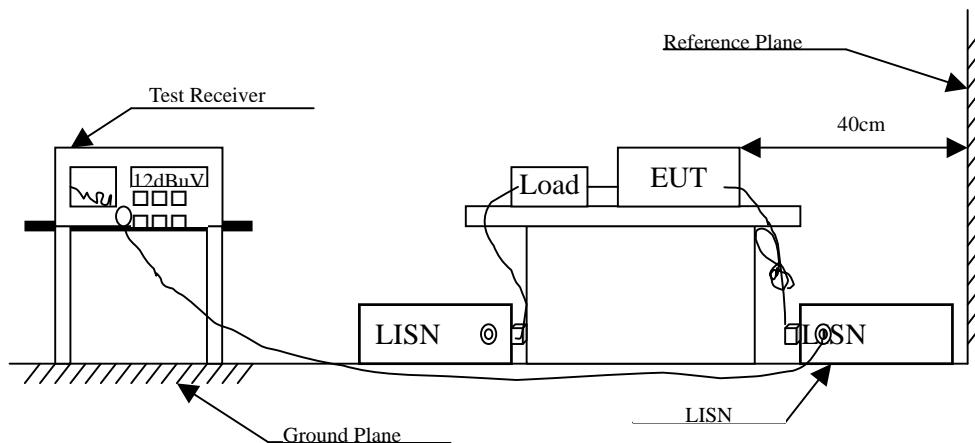
2.1. Test Equipment

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

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2010	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2010	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2010	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2010	
5	No.1 Shielded Room				N/A

Note: All instruments are calibrated every one year.

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	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

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 : Wireless Tablet
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Charge Mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.181	9.724	45.080	54.804	-10.310	65.114
0.201	9.706	26.600	36.306	-28.237	64.543
0.244	9.679	38.450	48.129	-15.185	63.314
0.306	9.650	29.910	39.560	-21.983	61.543
2.127	9.680	23.120	32.800	-23.200	56.000
3.951	9.700	24.930	34.630	-21.370	56.000
Average					
0.181	9.724	38.760	48.484	-6.630	55.114
0.201	9.706	7.270	16.976	-37.567	54.543
0.244	9.679	30.530	40.209	-13.105	53.314
0.306	9.650	22.490	32.140	-19.403	51.543
2.127	9.680	20.850	30.530	-15.470	46.000
3.951	9.700	14.500	24.200	-21.800	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

Product : Wireless Tablet
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Charge Mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.181	9.732	44.100	53.832	-11.282	65.114
0.240	9.690	36.070	45.760	-17.669	63.429
0.302	9.660	30.500	40.160	-21.497	61.657
0.365	9.651	25.930	35.581	-24.276	59.857
2.064	9.680	22.620	32.300	-23.700	56.000
3.994	9.700	22.770	32.470	-23.530	56.000
Average					
0.181	9.732	38.960	48.692	-6.422	55.114
0.240	9.690	28.050	37.740	-15.689	53.429
0.302	9.660	24.550	34.210	-17.447	51.657
0.365	9.651	20.990	30.641	-19.216	49.857
2.064	9.680	20.480	30.160	-15.840	46.000
3.994	9.700	10.350	20.050	-25.950	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

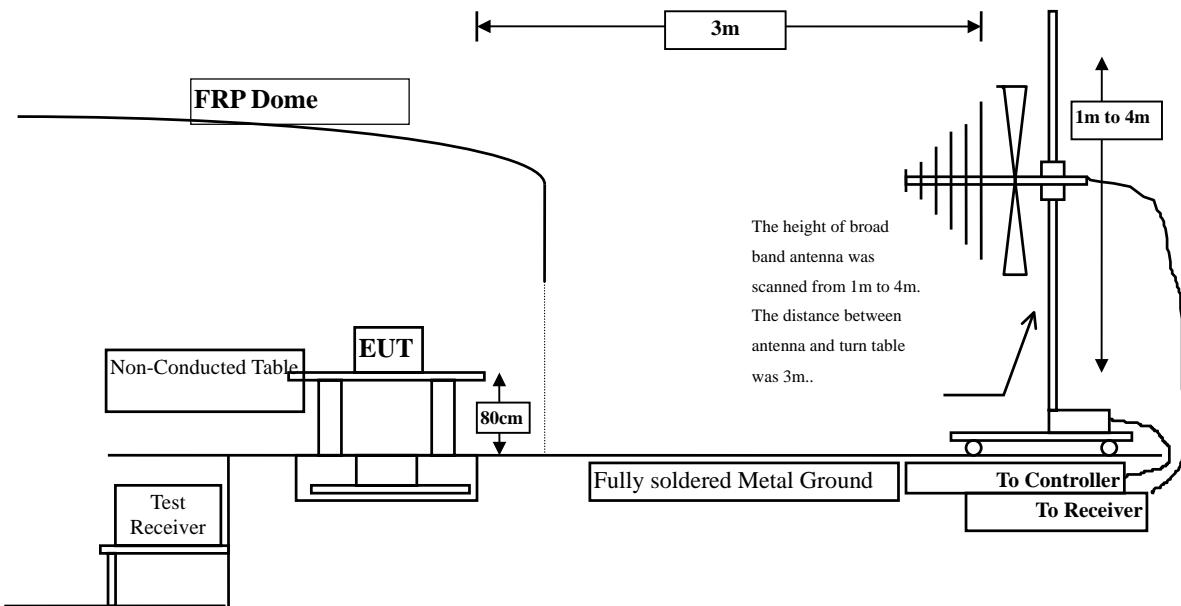
3.1. Test Equipment

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2010
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2010
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2010
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2010
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2010
	X	Spectrum Analyzer	Advantest	R3162/91700283	Oct., 2010
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2010
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

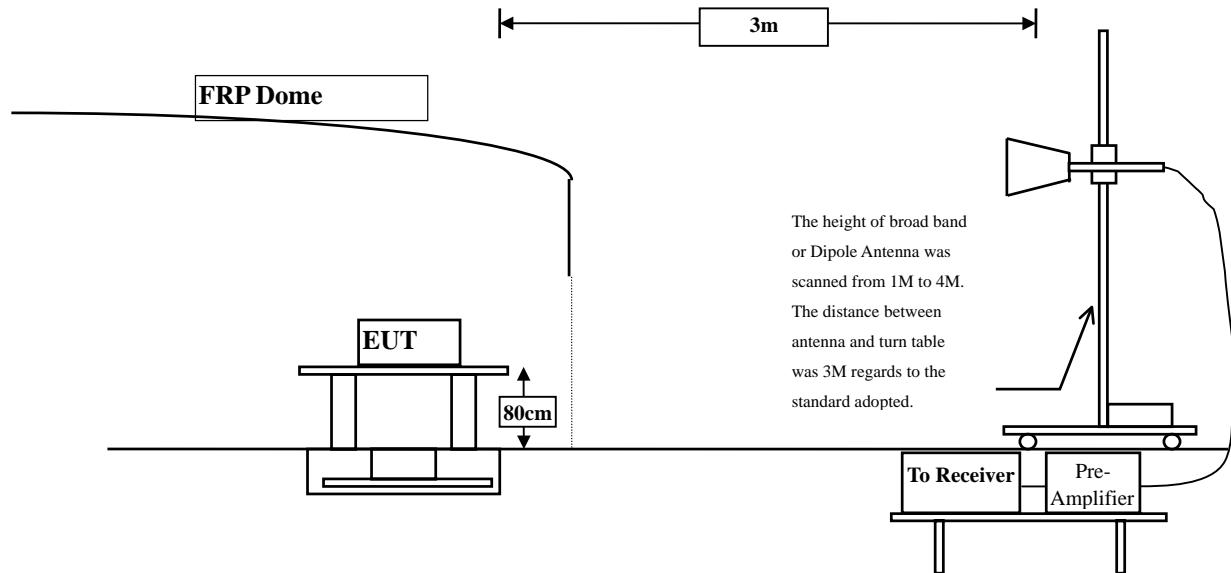
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

3.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



3.3. Limits

FCC Part 15 Subpart B Paragraph 15.109 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dBuV) = $20 \log_{10}$ 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

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 C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

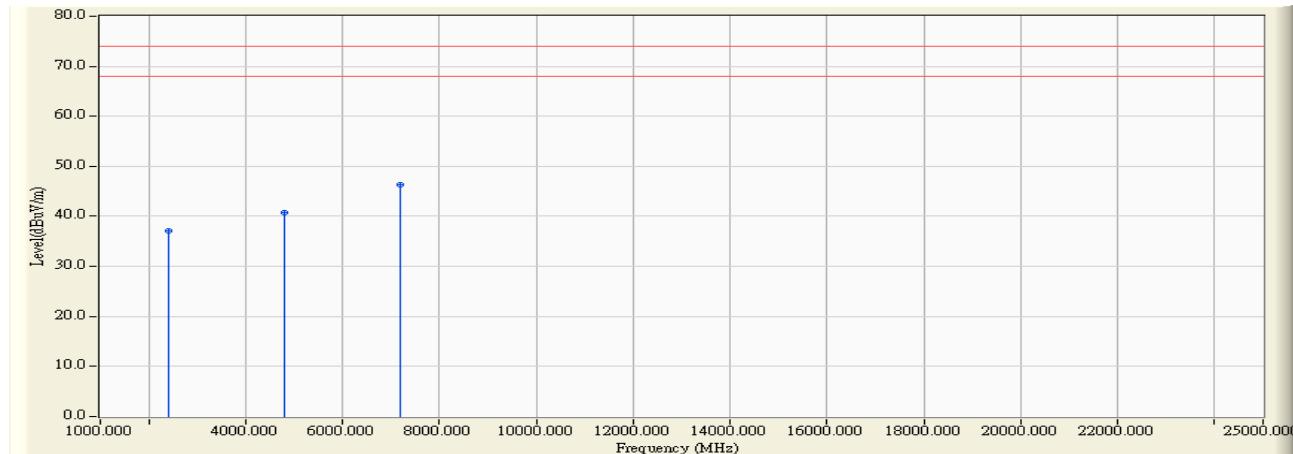
3.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

3.6. Test Result of Radiated Emission

Product : Wireless Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2402 MHz)



Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector					
2402.000	-4.657	41.730	37.073	-36.927	74.000
4804.000	0.342	40.390	40.732	-33.268	74.000
7206.000	7.700	38.540	46.240	-27.760	74.000

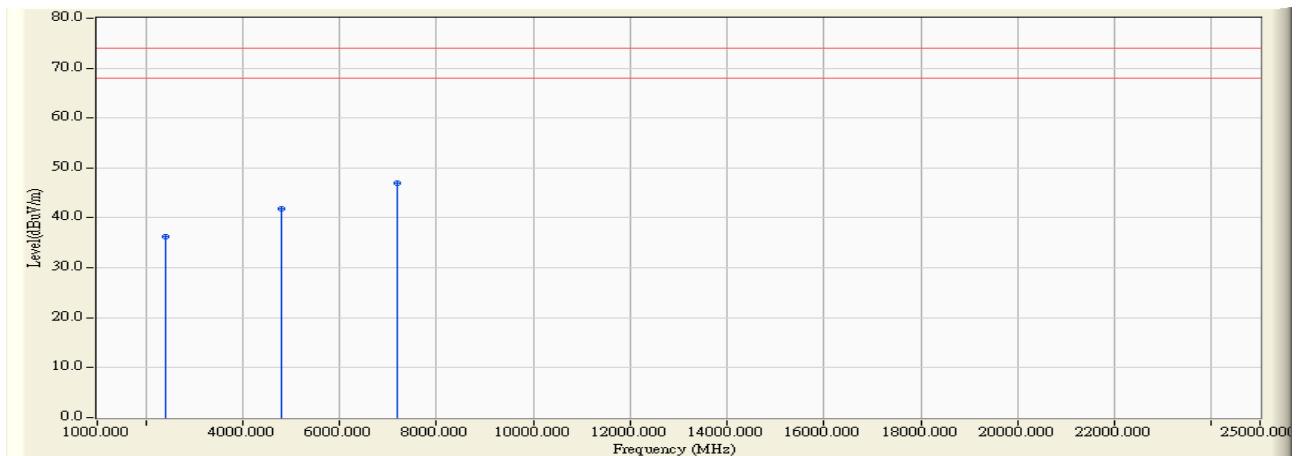
Average Detector

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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2402 MHz)



Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Vertical					
Peak Detector					
2402.000	-6.171	42.460	36.289	-37.711	74.000
4804.000	0.754	41.110	41.864	-32.136	74.000
7206.000	8.177	38.860	47.037	-26.963	74.000

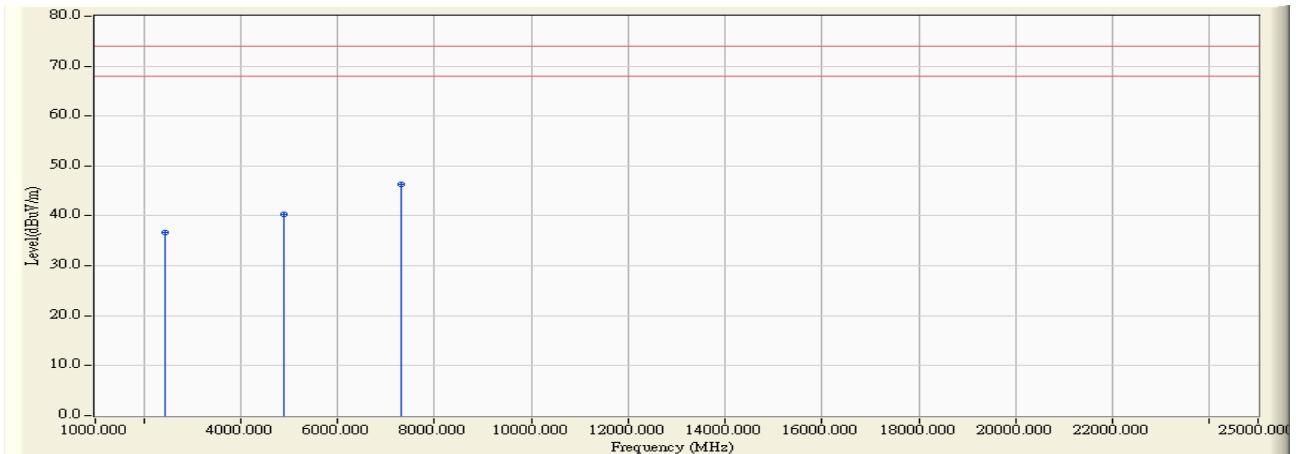
Average Detector

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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2441 MHz)



Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector					
2441.000	-4.636	41.210	36.573	-37.427	74.000
4882.000	-0.092	40.410	40.318	-33.682	74.000
7323.000	7.977	38.450	46.427	-27.573	74.000

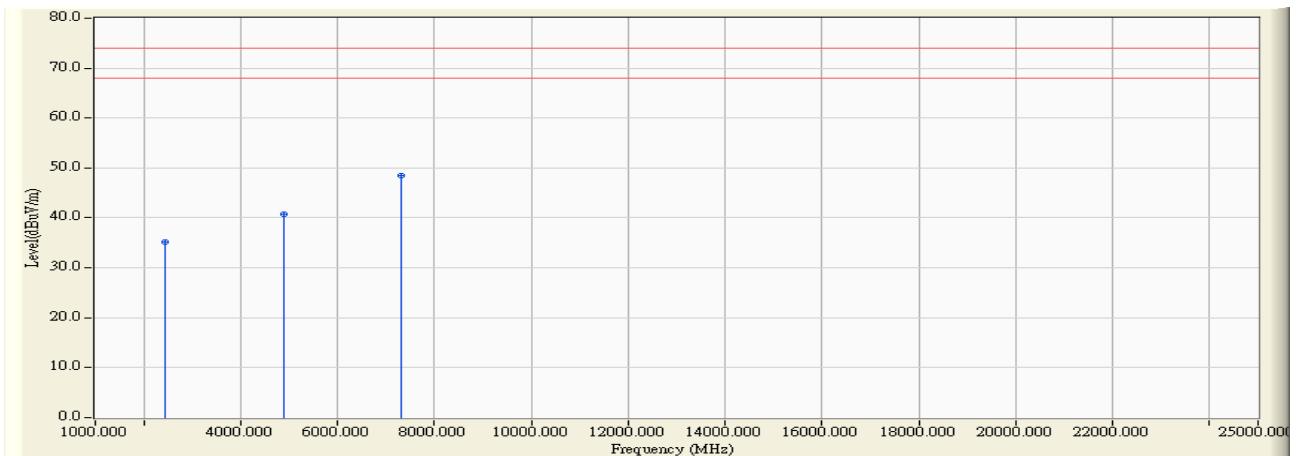
Average Detector

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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2441 MHz)



Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Vertical					
Peak Detector					
2441.000	-6.096	41.300	35.204	-38.796	74.000
4882.000	0.371	40.390	40.760	-33.240	74.000
7323.000	8.590	39.800	48.390	-25.610	74.000

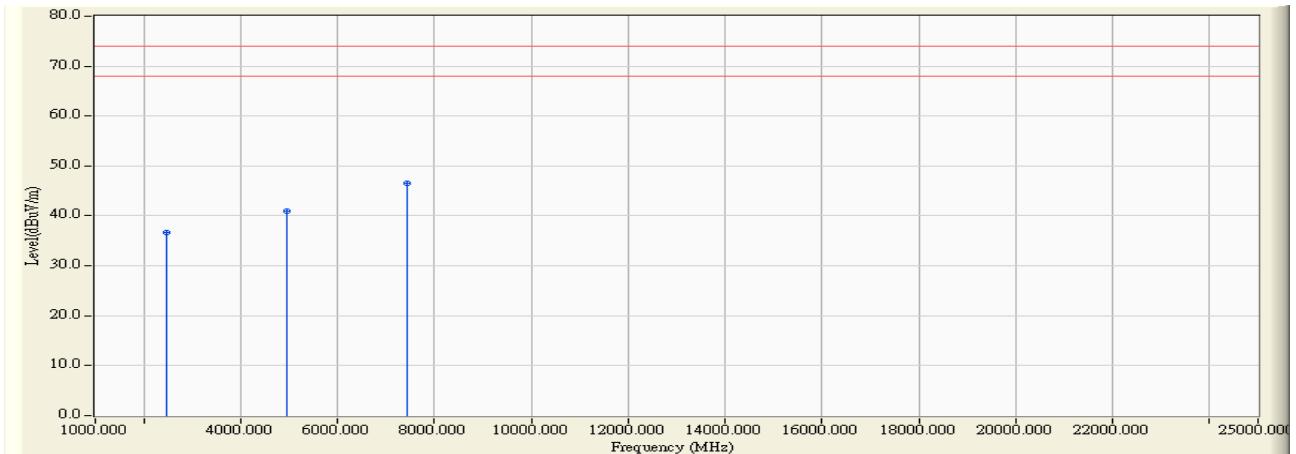
Average Detector

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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2479 MHz)



Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector					
2479.000	-4.606	41.340	36.734	-37.266	74.000
4958.000	0.371	40.680	41.051	-32.949	74.000
7437.000	8.512	38.053	46.565	-27.435	74.000

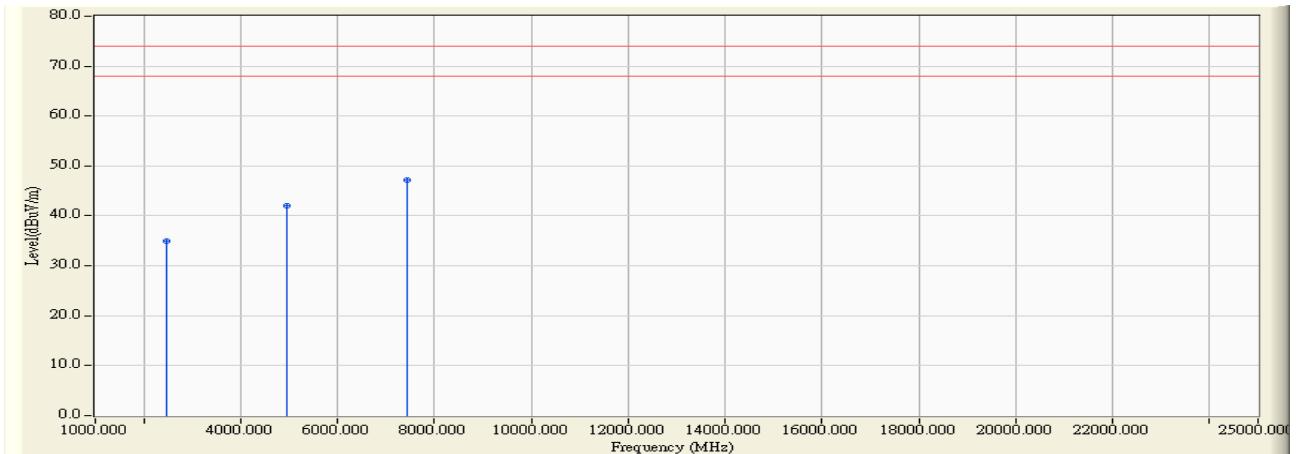
Average Detector

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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2479 MHz)



Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Vertical					
Peak Detector					
2479.000	-5.981	40.880	34.899	-39.101	74.000
4958.000	1.176	40.760	41.936	-32.064	74.000
7437.000	9.185	38.090	47.275	-26.725	74.000

Average Detector

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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Receive Mode (2441MHz)

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector					
39.700	-3.625	28.453	24.828	-15.172	40.000
144.460	-7.703	40.261	32.558	-10.942	43.500
191.020	-9.679	48.082	38.403	-5.097	43.500
288.020	-5.557	41.531	35.974	-10.026	46.000
383.080	1.305	37.017	38.322	-7.678	46.000
528.580	3.074	28.950	32.024	-13.976	46.000
Vertical					
Peak Detector					
30.000	-3.010	29.808	26.798	-13.202	40.000
43.580	-10.919	37.346	26.427	-13.573	40.000
144.460	-5.503	28.738	23.235	-20.265	43.500
383.080	0.195	24.109	24.304	-21.696	46.000
544.100	1.503	22.449	23.952	-22.048	46.000
780.780	2.769	22.452	25.221	-20.779	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Wireless Tablet
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Charge Mode

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
33.880	-0.840	23.699	22.859	-17.141	40.000
377.260	1.107	22.963	24.070	-21.930	46.000
472.320	2.932	26.810	29.742	-16.258	46.000
586.780	3.246	22.352	25.598	-20.402	46.000
755.560	5.039	23.646	28.685	-17.315	46.000
852.560	7.106	22.162	29.268	-16.732	46.000
Vertical					
Peak Detector					
30.000	-3.010	27.450	24.440	-15.560	40.000
179.380	-0.824	21.878	21.054	-22.446	43.500
375.320	0.388	22.470	22.858	-23.142	46.000
540.220	2.169	21.769	23.938	-22.062	46.000
608.120	2.175	23.268	25.443	-20.557	46.000
802.120	2.966	22.197	25.163	-20.837	46.000

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7. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. EMI Reduction Method During Compliance Testing

No modification was made during testing.