



FCC RADIO TEST REPORT

FCC ID: COJTALPV2B7I1

Product : LeafPresenter Tablet

Trade Name : Leaf

Model Name : V2

Serial Model : N/A

Report No. : NTEK-2014NT0610898F1

Prepared for

Leaf Holdings, Inc.

215 1st Street, 4th Floor, Cambridge, MA 02142, United States

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name Leaf Holdings, Inc.

Address 215 1st Street, 4th Floor, Cambridge, MA 02142, United States

Manufacture's Name Leaf Holdings, Inc.

Address 215 1st Street, 4th Floor, Cambridge, MA 02142, United States

Product description

Product name LeafPresenter Tablet

Model and/or type reference V2

Serial Model N/A

Standards FCC Part15.247

Test procedure ANSI C63.4-2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests 10 Jun. 2014 ~20 Jun. 2014

Date of Issue 20 Jun. 2014

Test Result **Pass**

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(Kyle Xu)

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(Brown Lu)

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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) Pass* Refer to report No. : SZEM140100028002/ FCC ID: COJALPV2B7I1.

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

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LeafPresenter Tablet	
Trade Name	Leaf	
Model Name	V2	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a LeafPresenter Tablet	
	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps
	Number Of Channel	802.11b/g/n20MHz:11CH
	Antenna Designation:	Please see Note 3.
	Output Power(Conducted):	N/A
	Antenna Gain (dBi)	2.0 dbi
	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 3.7V	
Adapter	Mode: ASSA2-050250 Input: 100-240V~,50/60Hz,0.5A Output: 5.0V---,2.5A	
Battery	DC3.7V, 4500mAh	

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		

3.

Table for Filed Antenna

Ant .	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	Dedicated Antenna	N/A	2.0	Wifi Antenna

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 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

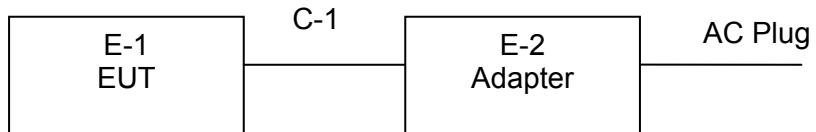
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n/20MHz CH1/ CH6/ CH11

Note:

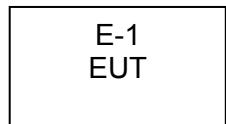
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



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	LeafPresenter Tablet	Leaf	V2	N/A	EUT
E-2	Adapter	N/A	ASSA2-050250	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	

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 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY4510840	2013.07.06	2014.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.07.06	2014.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	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-10180	2011071402	2013.07.06	2014.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.07.06	2014.07.05	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	2013.07.06	2014.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2013.07.06	2014.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	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

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 (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
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

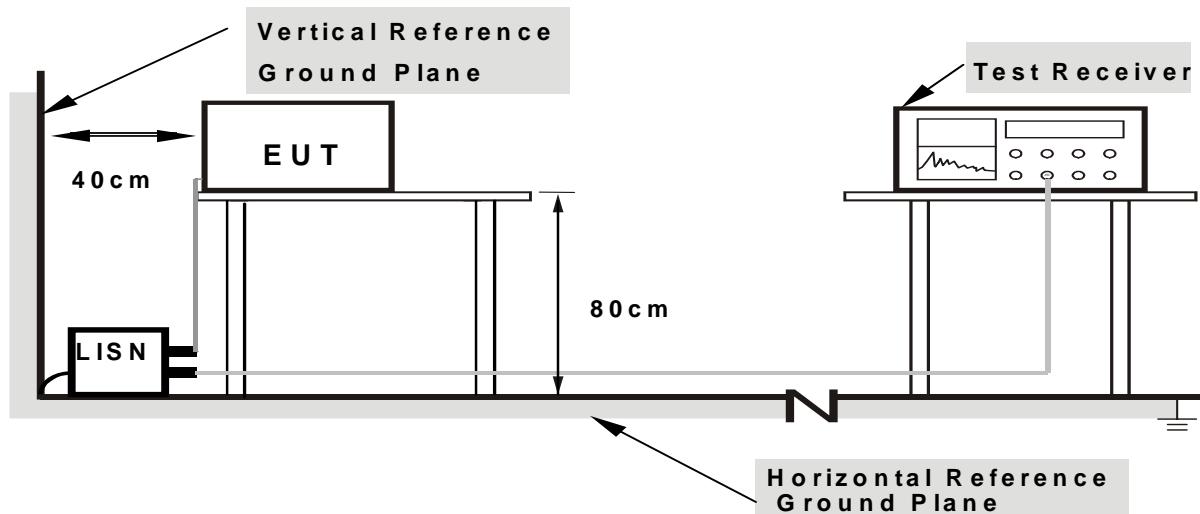
3.1.2 TEST PROCEDURE

- 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 cm 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.

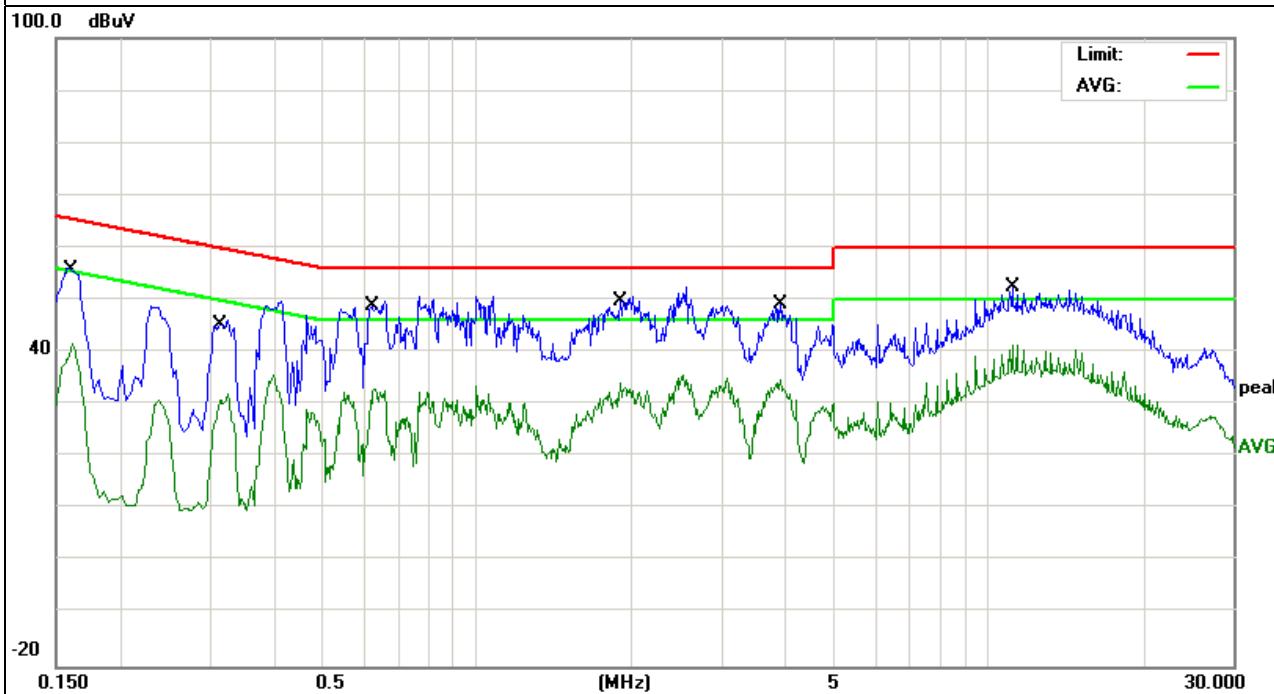
3.1.6 TEST RESULTS

EUT :	LeafPresenter Tablet	Model Name. :	V2
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Detector Type
0.1620	45.94	9.62	55.56	65.36	-9.80	QP
0.1620	32.02	9.62	41.64	55.36	-13.72	AVG
0.3140	35.65	9.51	45.16	59.86	-14.70	QP
0.3140	21.41	9.51	30.92	49.86	-18.94	AVG
0.6300	40.47	9.53	50.00	56.00	-6.00	QP
0.6300	25.47	9.53	35.00	46.00	-11.00	AVG
1.9020	44.22	9.57	53.79	56.00	-2.21	QP
1.9020	28.45	9.57	38.02	46.00	-7.98	AVG
3.9180	39.49	9.59	49.08	56.00	-6.92	QP
3.9180	25.11	9.59	34.70	46.00	-11.30	AVG
11.1299	42.75	9.76	52.51	60.00	-7.49	QP
11.1299	31.54	9.76	41.30	50.00	-8.70	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

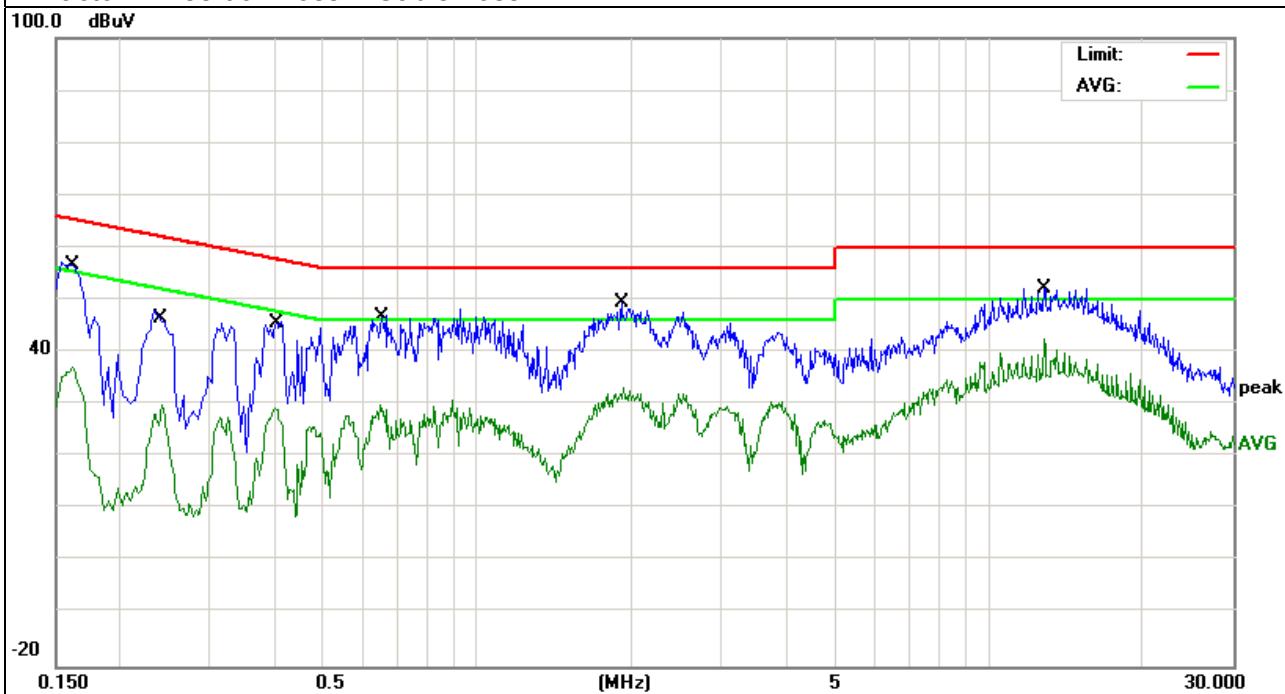


EUT :	LeafPresenter Tablet	Model Name. :	V2
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Detector Type
0.1620	47.07	9.62	56.69	65.36	-8.67	
0.1620	27.54	9.62	37.16	55.36	-18.20	AVG
0.2420	36.48	9.50	45.98	62.02	-16.04	QP
0.2420	20.44	9.50	29.94	52.02	-22.08	AVG
0.4020	35.51	9.52	45.03	57.81	-12.78	QP
0.4020	19.77	9.52	29.29	47.81	-18.52	AVG
0.6460	34.94	9.53	44.47	56.00	-11.53	QP
0.6460	20.54	9.53	30.07	46.00	-15.93	AVG
1.9340	37.45	9.57	47.02	56.00	-8.98	QP
1.9340	23.53	9.57	33.10	46.00	-12.90	AVG
12.8019	42.50	9.80	52.30	60.00	-7.70	QP
12.8019	32.64	9.80	42.44	50.00	-7.56	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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 (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	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 band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

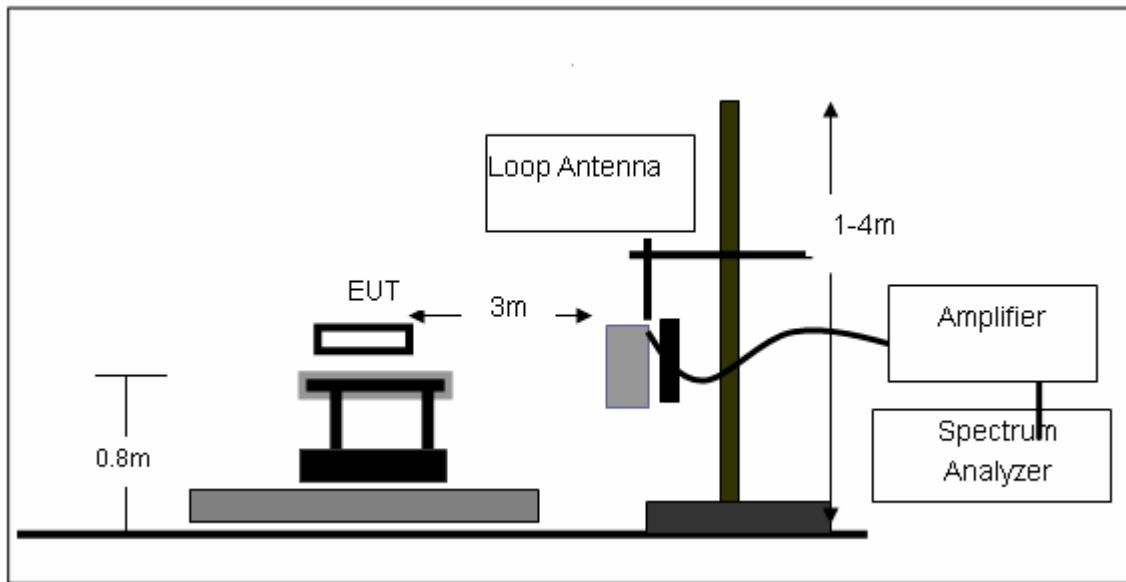
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

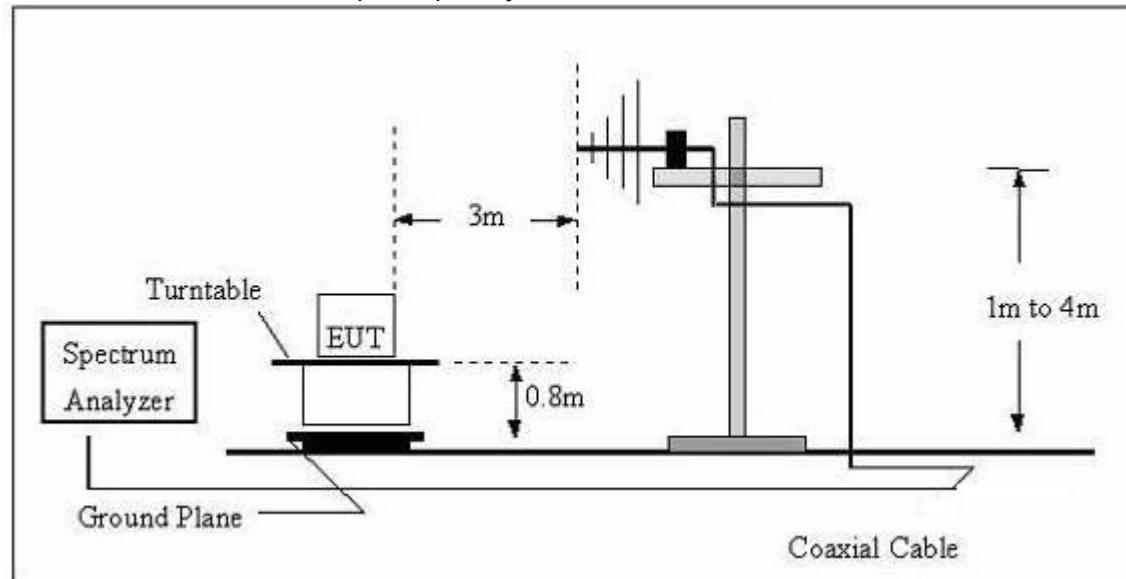
No deviation

3.2.4 TEST SETUP

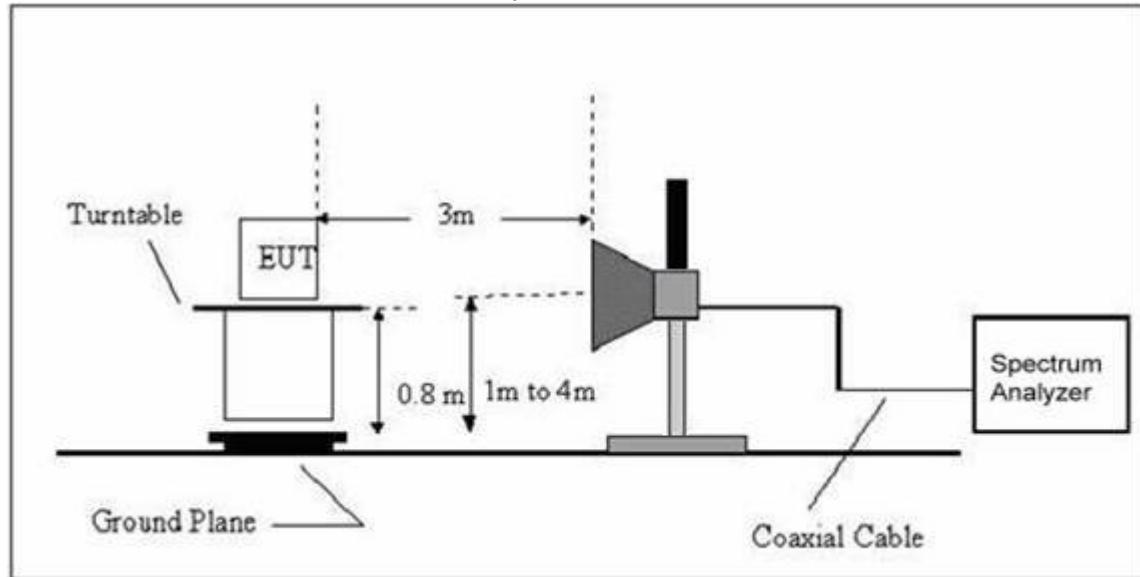
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(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:	LeafPresenter Tablet	Model Name. :	V2
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

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 = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
Limit line = specific limits(dBuV) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	LeafPresenter Tablet	Model Name :	V2
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detect or Type	Comment
Low Channel (2412 MHz)-Below 1G-802.11b							
115.0234	17.81	12.03	29.84	43.5	-13.66	QP	Vertical
233.7409	16.22	11.65	27.87	46	-18.13	QP	Vertical
401.024	17.19	18.53	35.72	46	-10.28	QP	Vertical
493.4544	15.56	20.56	36.12	46	-9.88	QP	Vertical
524.2269	15.68	21.12	36.8	46	-9.2	QP	Vertical
802.9012	10.08	26.43	36.51	46	-9.49	QP	Vertical
115.0355	15.32	12.21	27.53	43.5	-15.97	QP	Horizontal
164.9071	15.73	10.81	26.54	43.5	-16.96	QP	Horizontal
287.9904	16.74	14.3	31.04	46	-14.96	QP	Horizontal
524.2632	16.11	21.12	37.23	46	-8.77	QP	Horizontal
701.7765	9.68	25.59	35.27	46	-10.73	QP	Horizontal
802.0336	10.46	26.43	36.89	46	-9.11	QP	Horizontal
Middel Channel (2437 MHz)-Below 1G-802.11b							
133.2342	15.73	12.25	27.98	43.5	-15.52	QP	Vertical
235.4655	16.84	11.65	28.49	46	-17.51	QP	Vertical
267.0332	17.33	14.62	31.95	46	-14.05	QP	Vertical
315.4806	16.98	15.26	32.24	46	-13.76	QP	Vertical
528.2458	16.12	21.12	37.24	46	-8.76	QP	Vertical
815.9678	11.43	26.46	37.89	46	-8.11	QP	Vertical
125.0066	16.66	12.21	28.87	43.5	-14.63	QP	Horizontal
263.819	16.81	14.62	31.43	46	-14.57	QP	Horizontal
432.5457	17.64	18.82	36.46	46	-9.54	QP	Horizontal
528.2097	17.68	21.12	38.8	46	-7.2	QP	Horizontal
721.7259	10.54	25.59	36.13	46	-9.87	QP	Horizontal
815.2377	11.15	26.46	37.61	46	-8.39	QP	Horizontal
High Channel (2462 MHz)-Below 1G-802.11b							
98.1096	15.78	10.51	26.29	43.5	-17.21	QP	Vertical
144.1266	18.05	12.06	30.11	43.5	-13.39	QP	Vertical
337.098	14.12	16.03	30.15	46	-15.85	QP	Vertical
381.5672	15.61	17.38	32.99	46	-13.01	QP	Vertical
524.0454	17.23	21.12	38.35	46	-7.65	QP	Vertical
813.7642	9.16	26.46	35.62	46	-10.38	QP	Vertical
132.0833	16.12	12.22	28.34	43.5	-15.16	QP	Horizontal
198.1433	17.84	8.99	26.83	43.5	-16.67	QP	Horizontal
288.9012	17.79	14.3	32.09	46	-13.91	QP	Horizontal
466.3696	15.32	19.5	34.82	46	-11.18	QP	Horizontal
624.1455	10.87	23.6	34.47	46	-11.53	QP	Horizontal
724.7389	10.26	25.59	35.85	46	-10.15	QP	Horizontal

3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	LeafPresenter Tablet	Model Name :	V2
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detect or Type	Comment
Low Channel (2412 MHz)-Above 1G							
4824.012	47.15	10.44	57.59	74.0	-16.41	Pk	Vertical
4824.012	30.01	10.44	40.45	54.0	-13.55	Av	Vertical
7236.000	36.88	12.39	49.27	74.0	-24.73	Pk	Vertical
4824.012	44.58	10.44	55.02	74.0	-18.98	Pk	Horizontal
4824.012	28.17	10.44	38.61	54.0	-15.39	Av	Horizontal
7236.000	30.06	12.39	42.45	54.0	-11.55	Av	Horizontal
Mid Channel (2437 MHz)-Above 1G							
4874.043	48.36	10.40	58.76	74.0	-15.24	Pk	Vertical
4874.043	32.34	10.40	42.74	54.0	-11.26	Av	Vertical
7311.147	38.26	12.75	51.01	74.0	-22.99	Pk	Vertical
4874.043	47.13	10.40	57.53	74.0	-16.47	Pk	Horizontal
4874.043	30.47	10.40	40.87	54.0	-13.13	Av	Horizontal
7311.147	31.76	12.75	44.51	54.0	-9.49	Av	Horizontal
High Channel (2462 MHz)- Above 1G							
4924.124	47.88	10.39	58.27	74.0	-15.73	Pk	Vertical
4924.124	31.05	10.39	41.44	54.0	-12.56	Av	Vertical
7386.076	34.55	12.68	47.23	74.0	-26.77	Pk	Vertical
4924.124	45.69	10.39	56.08	74.0	-17.92	Pk	Horizontal
4924.124	30.43	10.39	40.82	54.0	-13.18	Av	Horizontal
7386.033	32.08	12.68	44.76	54.0	-9.24	Av	Horizontal

Note: "802.11b" mode is the worst mode.

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

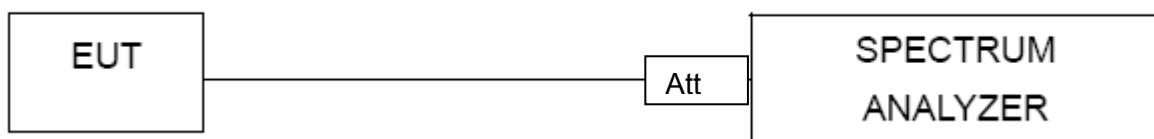
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. $3 \text{ kHz} \leq \text{Set the RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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 within the RBW.
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.

4.1.5 TEST RESULTS

EUT :	LeafPresenter Tablet	Model Name :	V2
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	N/A
Test Mode :	N/A		

5. BANDWIDTH TEST

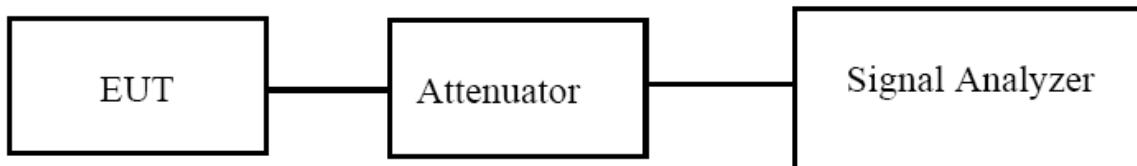
5.1 APPLIED PROCEDURES / LIMIT

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

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



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 :	LeafPresenter Tablet	Model Name :	V2
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	N/A
Test Mode :	N/A		

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

- 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.

6.1.5 TEST RESULTS

EUT :	LeafPresenter Tablet	Model Name :	V2
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	N/A
Test Mode :	N/A		

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)).

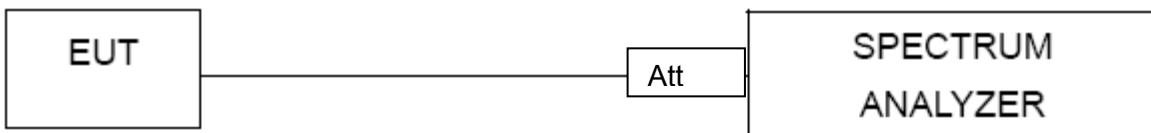
TEST PROCEDURE

- 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.

7.4 TEST RESULTS

EUT :	LeafPresenter Tablet	Model Name :	V2
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	N/A

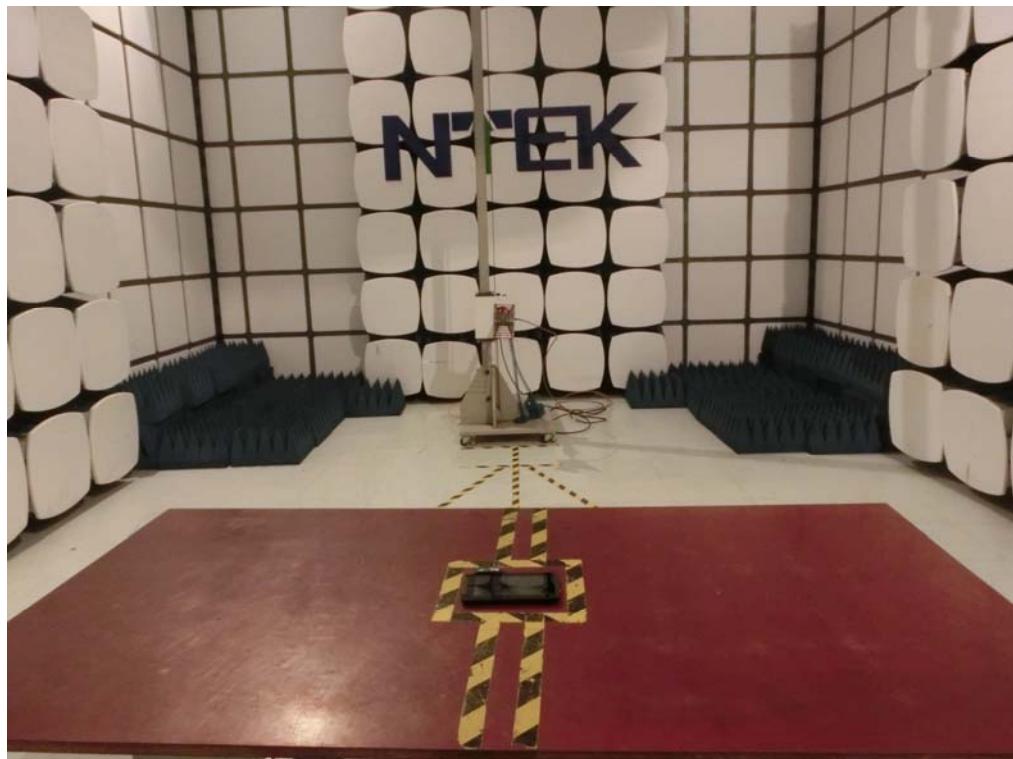
8. ANTENNA REQUIREMENT

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 Dedicated Antenna. It comply with the standard requirement.

9. EUT TEST PHOTO**Radiated Measurement Photos**

Conducted Measurement Photos