

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: Diversionary Therapy Technologies Pty. Ltd.

Diversionary Therapy Technologies, Level 11 / 39 Sherwood

Address: Road, Toowong, QUEENSLAND, 4066. AUSTRALIA.

Product Name: Tablet PC

Model Name: DIT-D7005

Brand Name: Diversionary Therapy Technologies

FCC ID: 2ADOXDIT

Report No.: MTE/SAL/F14111541

Date of Issue: Nov. 24, 2014

Issued by: Most Technology Service Co., Ltd.

No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan,

Address : Shenzhen, Guangdong, China

Tel: 86-755-86026850

Fax: 86-755-26013350

The report consists 79 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by MOST. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver.

FCC ID: 2ADOXDIT

TABLE OF CONTENTS

1.	VE	RIFICATION OF CONFORMITY	. 4
		ENERAL INFORMATION	
		oduct Informationjective	
		st Standards and Results	
		vironmental Conditions	
		ASUREMENT UNCERTAINTY	
		ST FACILITYt Conditions	
		annel List	
3.4 [es	scription of Test Modes	8
		le of Parameters of Text Software Setting	
		ST EQUIPMENT LIST	
		CFR Part 15 C 15.247 Requirements	
		B Bandwidth Definition	
		Limit	
5.1.		Test Configuration	
5.1.4	1	Test Procedure	10
5.1.5		Test Result	
		ak Output Power	
5.2.1	L	Definition	16
5.2.2	2	Limit	16
5.2.3	3	Test Configuration.	16
5.2.4	ļ	Test Procedure	16
5.2.5	5	Test Result	16
5.3	Со	nducted Spurious Emission	18
5.3.1	l	Definition	18
5.3.2	2	Test Configuration.	18
5.3.3	3	Test Description	18
5.3.4	1	Test Result	18
5.4	Ва	nd Edge	31
5.4.	l	Definition	31
5.4.2	2	Test Description	31
5.4.3	3	Test Configuration	31
5.4.4	1	Test Result	31
5.5	Ро	wer Spectral Density (PSD)	44
5.5.1		Definition	44
5.5.2	2	Limit	44
5.5.3	3	Test Configuration	44
5.5.4	1	Test Description	44
5.5.5	5	Test Configuration	44

5.5.6	Operation Condition	44
5.5.7	Test Result	44
5.6 C	Conducted Emission	50
5.6.1	Definition	50
5.6.2	Test Description	50
5.6.3	Test Result	50
5.7 R	adiated Emission	53
5.7.1	Definition	53
5.7.2	Test Description	54
5.7.3	Test Result	55
5.8 A	ntenna Requirement	68
5.8.1	Definition	68
5.8.2	Evaluation Criteria	68
5.8.3	Evaluation Results	68
APPE	ENDIX 1	69
	TOGRAPHS OF TEST SETUP	

1. VERIFICATION OF CONFORMITY

Equipment Under Test: Tablet PC

Brand Name: Diversionary Therapy Technologies

Model Name: DIT-D7005

Series Model Name: N/A

FCC ID: 2ADOXDIT

Applicant: Diversionary Therapy Technologies Pty. Ltd.

Diversionary Therapy Technologies, Level 11 / 39 Sherwood Road, Toowong,

QUEENSLAND, 4066. AUSTRALIA.

Manufacturer: Diversionary Therapy Technologies Pty. Ltd.

Diversionary Therapy Technologies, Level 11 / 39 Sherwood Road, Toowong,

QUEENSLAND, 4066. AUSTRALIA.

Technical Standards: 47 CFR Part 15 Subpart C

 File Number:
 MTE/SAL/F14111541

 Date of test:
 Oct. 27-Nov. 06, 2014

Deviation:NoneCondition of Test Sample:NormalTest Result:PASS

The above equipment was tested by *MOST* for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Sophia Liu

Oct.24. APPROVED

Henry Chen

Nov. 24, 2014

Yvette Zhou(Manager)

Nov. 24, 2014

2. GENERAL INFORMATION

2.1 Product Information

Description:	Tablet PC
Model Name:	DIT-D7005
Series Number:	N/A
Model Difference description:	N/A
Frequency Range:	802.11b/g/n(20MHz): 2412-2462MHz
Number of Channels:	IEEE 802.11b/g/n(20MHz)mode:11 Channels
Modulation Technique:	IEEE 802.11b mode: DSSS IEEE 802.11g mode: OFDM 802.11n Standard-20 MHz Channel mode: OFDM
Antenna Type:	FPC
Antenna Gain:	2.0dBi
Power Supply:	DC 5V by Adapter Input AC 120V/60Hz
Temperature Range:	-20°C ~ +40°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

Perform FCC Part 15 Subpart C tests for FCC Marking.

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.247(a)(2)	6dB Bandwidth	PASS	2014-11-06
2	15.247(b)(3)	Peak Output Power	PASS	2014-11-06
3	15.247(d)	conducted spurious emission	PASS	2014-11-06
4	15.247(d)	Band Edge	PASS	2014-11-06
5	15.247(e)	Power Spectral Density	PASS	2014-11-06
6	15.207	Conducted Emission	PASS	2014-11-05
7	15.247(d) 15.205 15.209	Radiated Emission	PASS	2014-11-03
8	15.203	Antenna Requirement	PASS	2014-11-06

Note:

- 1. The test result judgment is decided by the limit of measurement standard
- 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement y±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%

- Uncertainty of Conducted Emission, Uc = ±1.8dB
- Uncertainty of Radiated Emission, Uc = ±3.2dB

3. TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16

requirements.

The FCC Registration Number is 490827.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements

that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

558074 D01 DTS

provides Guidance for Performing Compliance Measurements on Digital Transmission

Meas Guidance

Systems (DTS) Operating Under CFR Title 47 15.247

v03r02:

3.2 Test Conditions

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT lie-down position (Y axis), stand-up position (X, Z axis).

The following data show only with the worst case setup.

The worst case of X axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

3.3 Channel List

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

3.4 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

Pre-test Mode	Description		
Mode 1	802.11b CH01/CH06/CH11		
Mode 2	802.11g CH01/CH06/CH11		
Mode 3	802.11n(20MHz)CH01/CH06/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.

3.5 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level, the RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software Version	Test Channels			
802.11b	2412MHz	2437MHz	2462MHz	
802.11g	2412MHz	2437MHz	2462MHz	
802.11n(20MHz)	2412MHz	2437MHz	2462MHz	

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1/ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

from	from 10 kHz to 1.0 GHz or above.							
No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval		
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/10	1 Year		
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2014/03/14	1 Year		
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2014/03/10	1 Year		
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/07	1 Year		
5	Terminator	Hubersuhner	50Ω	No.1	2014/03/07	1 Year		
6	RF Cable	SchwarzBeck	N/A	No.1	2014/03/07	1 Year		
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2014/03/10	1 Year		
8	Bilog Antenna	Sunol	JB3	A121206	2014/03/14	1 Year		
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2014/03/14	1 Year		
10	Horn Antenna	Penn Engineering	9034	8376	2014/03/14	1 Year		
11	Cable	Resenberger	N/A	NO.1	2014/03/07	1 Year		
12	Cable	SchwarzBeck	N/A	NO.2	2014/03/07	1 Year		
13	Cable	SchwarzBeck	N/A	NO.3	2014/03/07	1 Year		
14	DC Power Filter	DuoJi	DL2×30B	N/A	2014/03/07	1 Year		
15	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2014/03/07	1 Year		
16	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2014/03/07	1 Year		
17	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/10	1 Year		
18	Absorbing Clamp	Luthi	MDS21	3635	2014/03/12	1 Year		
19	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/07	1 Year		
20	AC Power Source	Kikusui	AC40MA	LM003232	2014/03/10	1 Year		
21	Test Analyzer	Kikusui	KHA1000	LM003720	2014/03/10	1 Year		
22	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2014/03/10	1 Year		
23	ESD Tester	Kikusui	KES4021	LM003537	2014/03/07	1 Year		
24	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2014/03/10	1 Year		
25	Signal Generator	IFR	2032	203002/100	2014/03/10	1 Year		
26	Amplifier	A&R	150W1000	301584	2014/03/14	1 Year		
27	CDN	FCC	FCC-801-M2-25	47	2014/03/10	1 Year		
28	CDN	FCC	FCC-801-M3-25	107	2014/03/10	1 Year		
29	EM Injection Clamp	FCC	F-203I-23mm	403	2014/03/10	1 Year		
30	RF Cable	MIYAZAKI	N/A	No.1/No.2	2014/03/10	1 Year		
31	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2014/03/10	1 Year		
32	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2014/03/10	1 Year		
33	8 Loop Antenna	ARA	PLA-1030/B	1029	2014/02/19	1 Year		
34	Power Meter	R&S	NRVS	100696	2014/07/06	1 Year		
35	Power Sensor(AV)	R&S	URV5-Z4	0395.1619.05	2014/07/06	1 Year		

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C 15.247 Requirements

5.1 6dB Bandwidth

5.1.1 Definition

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2 Limit

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

5.1. 3 Test Configuration

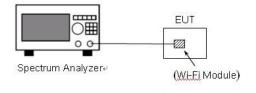


Figure 1: RF Test Setup

5.1.4 Test Procedure

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	>Measurement bandwidth or channel separation
RB	100kHz
VB	≧3 x RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 500hm.

5.1.5 Test Result

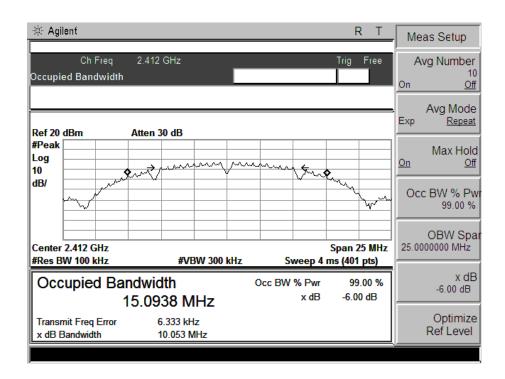
The lowest, Middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

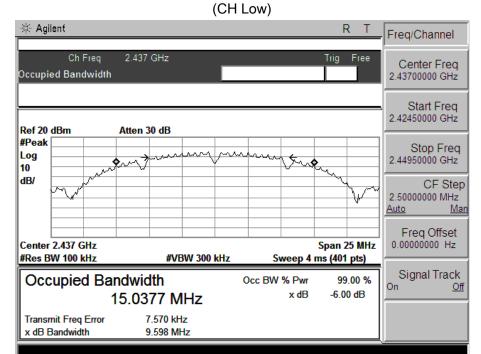
5.1.5.1 802.11b Test Mode

A. Test Verdict:

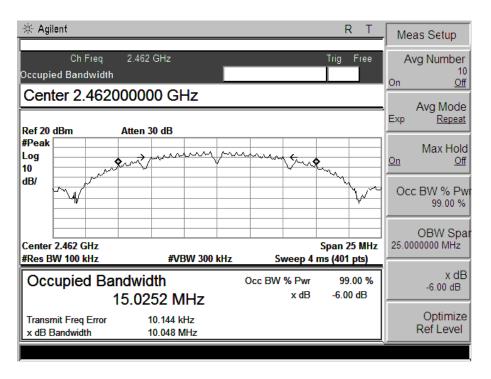
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	10.053	≥500	PASS
6	2437	9.598	≥500	PASS
11	2462	10.048	≥500	PASS

B. Test Plot:





(CH Mid)



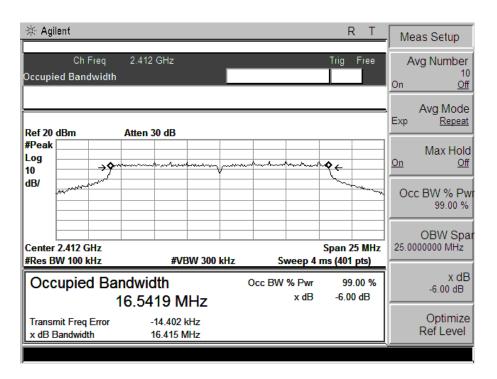
(CH High)

5.1.5.2 802.11g Test Mode

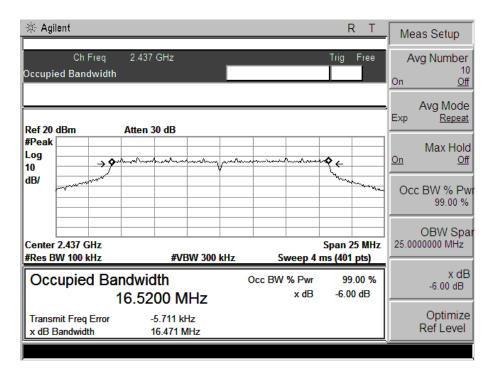
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.415	≥500	PASS
6	2437	16.471	≥500	PASS
11	2462	16.436	≥500	PASS

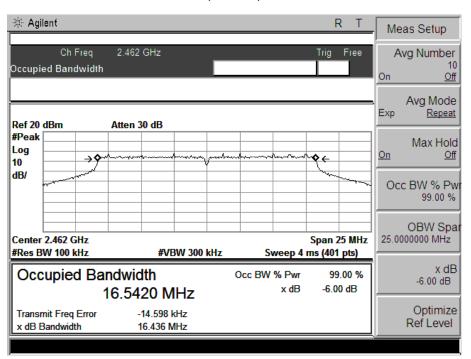
B. Test Plot:



(CH Low)



(CH Mid)



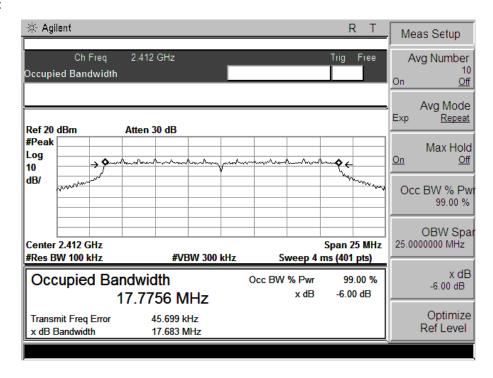
(CH High)

5.1.5.3 802.11n(20MHz) Test Mode

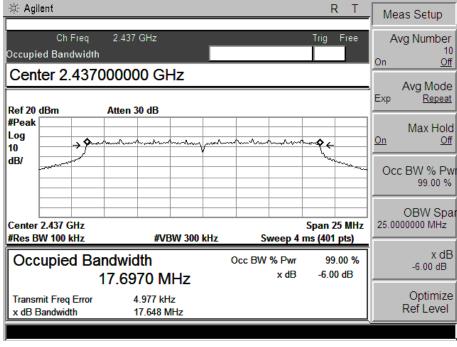
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	17.683	≥500	PASS
6	2437	17.648	≥500	PASS
11	2462	17.664	≥500	PASS

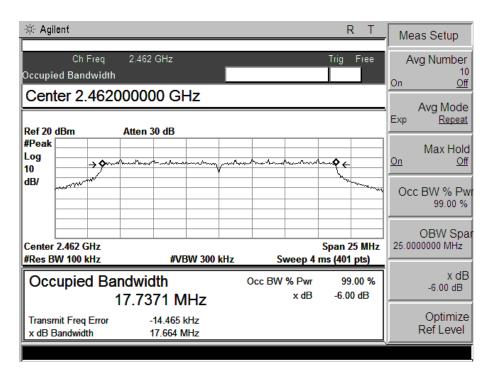
B. Test Plot:







(CH Mid)



(CH High)

5.2 Peak Output Power

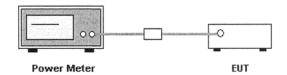
5.2.1 Definition

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

5.2.2 **Limit**

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

5.2.3 Test Configuration



5.2.4 Test Procedure

The EUT which is powered by AC adapter, is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

5.2.5 Test Result

The EUT operates at maximum output power mode. The lowest, Middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

5.2.5.1 802.11b Test Mode

A. Test Verdict:

	Channel	Frequency (MHz)	Peak Output Power	Lin	Verdict		
		(MHZ)	dBm	dBm	W		
Ī	1	2412	9.40			PASS	
	6	2437	9.40	30	1	PASS	
Ī	11	2462	9.49			PASS	

5.2.5.2 802.11g Test Mode

A. Test Verdict:

Channel	Frequency (MHz)	Peak Output Power	Lin	Verdict	
	(MHZ)	dBm	dBm W		
1	2412	8.88			PASS
6	2437	8.30	30	1	PASS
11	2462	8.59			PASS

5.2.5.3 802.11n(20MHz) Test Mode

A. Test Verdict:

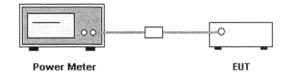
Channel	Frequency (MHz)	Peak Output Power	Lin	Verdict		
	(MITZ)	dBm	dBm	W		
1	2412	8.48			PASS	
6	2437	8.54	30	1	PASS	
11	2462	8.15			PASS	

5.3 Conducted Spurious Emission

5.3.1 Definition

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.

5.3.2 Test Configuration



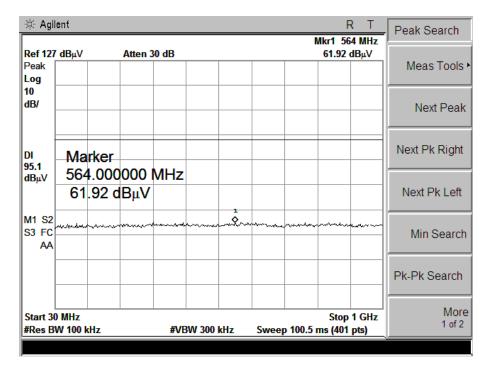
5.3.3 Test Description

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 500hm.

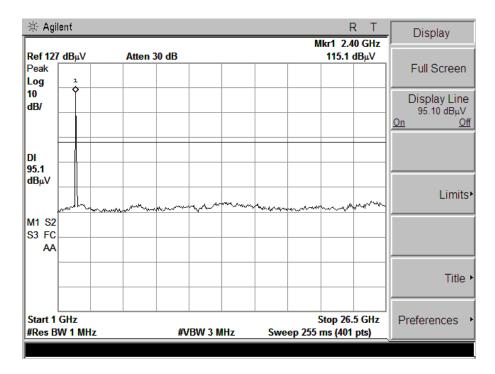
5.3.4 Test Result

The EUT operates at maximum output power mode. The lowest, and highest channels are selected to perform testing to verify the Conducted Spurious Emission of the Module.

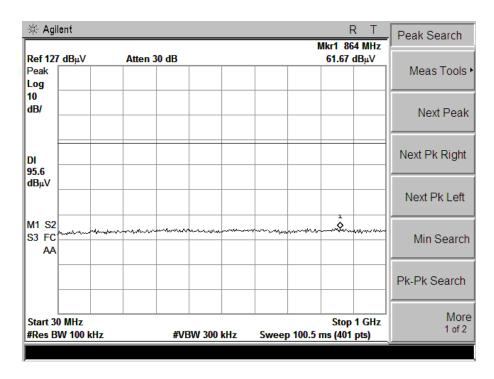
Test Plot:



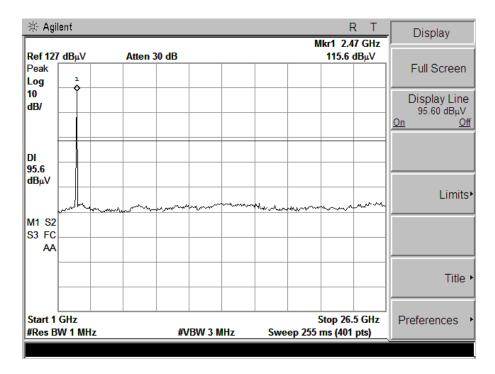
(CH Low, 9kHz to 1GHz)



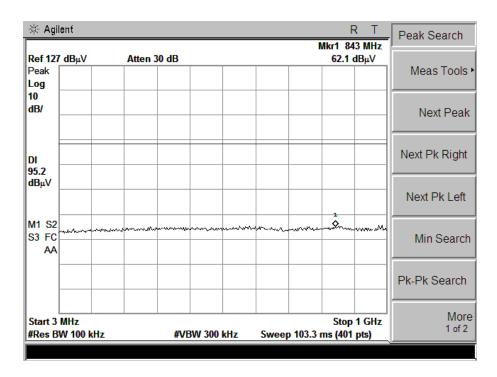
(CH Low, 1GHz to 26.5GHz)



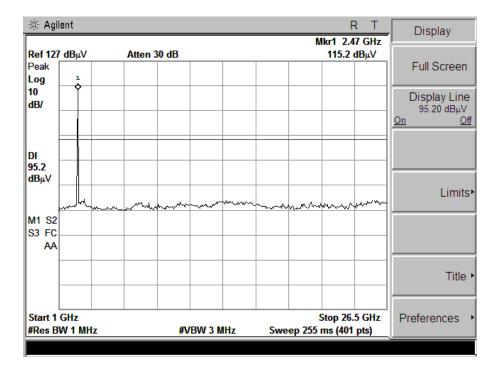
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)



(CH High, 9kHz to 1GHz)

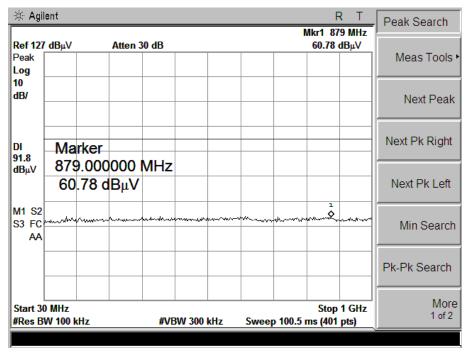


(CH High, 1GHz to 26.5GHz)

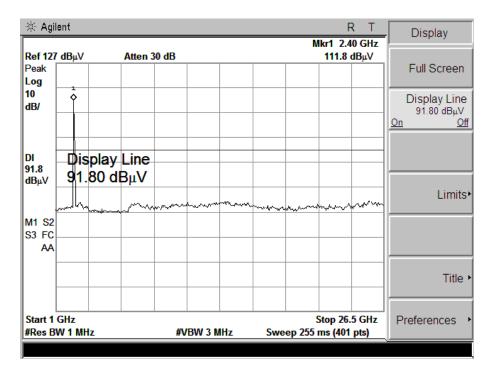
Note:

1. The power of the Module transmitting frequency should be ignored.

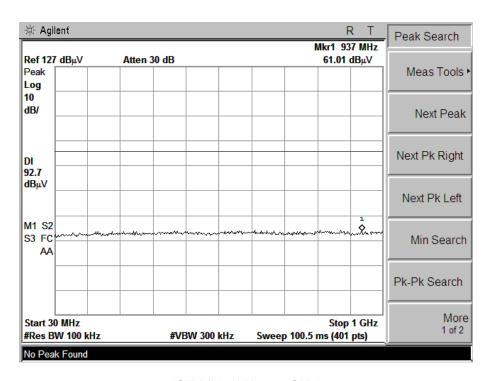
802.11g Test Mode



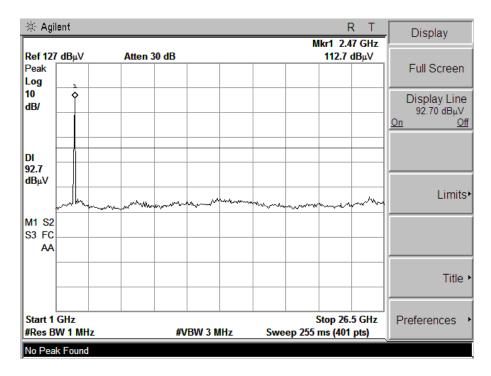
(CH Low, 9kHz to 1GHz)



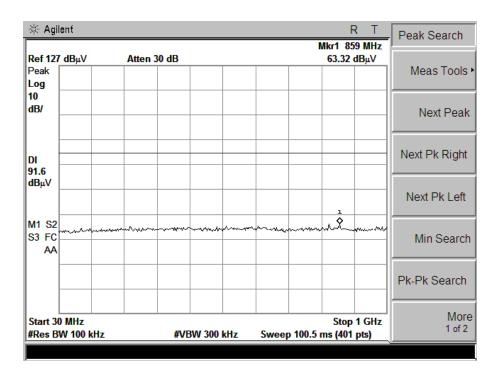
(CH Low, 1GHz to 26.5GHz)



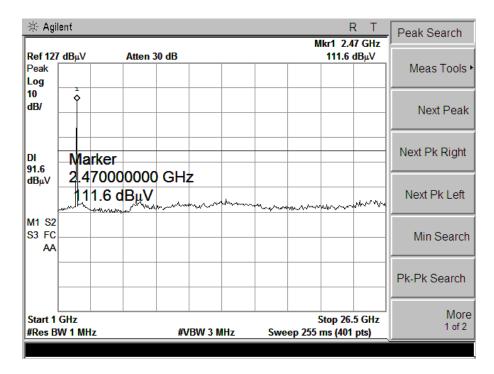
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)



(CH High, 9kHz to 1GHz)

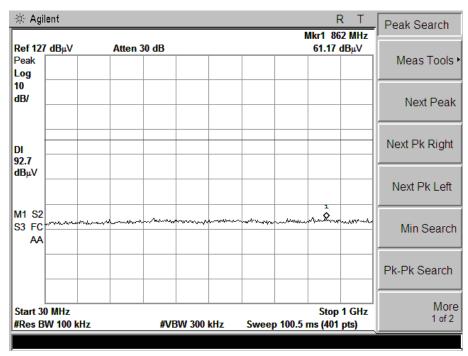


(CH High, 1GHz to 26.5GHz)

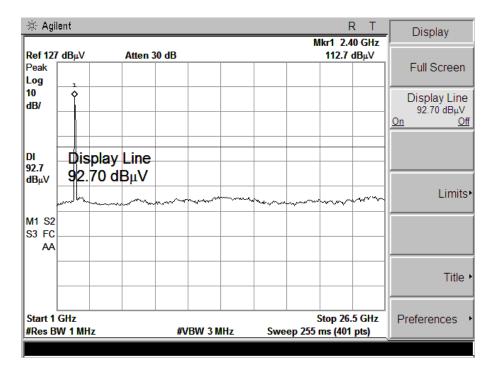
Note:

1. The power of the Module transmitting frequency should be ignored.

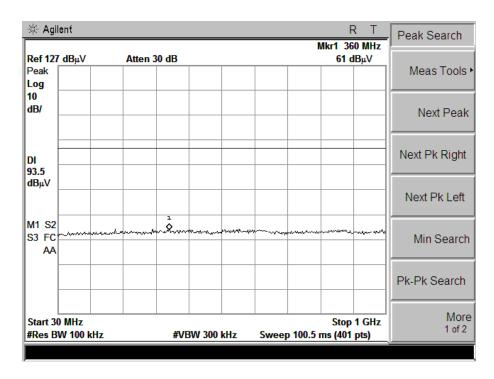
802.11n(20MHz) Test Mode



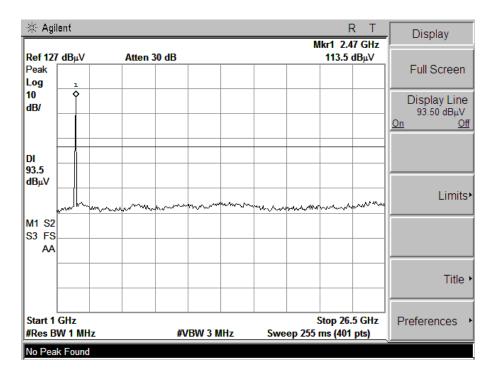
(CH Low, 9kHz to 1GHz)



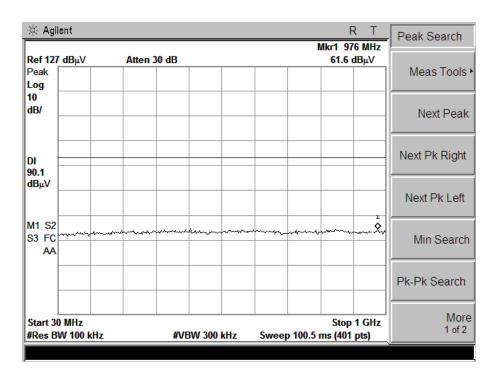
(CH Low, 1GHz to 26.5GHz)



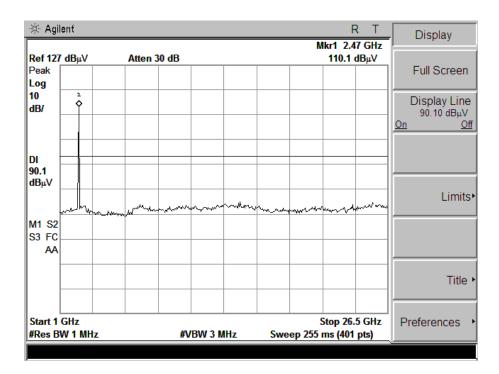
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)

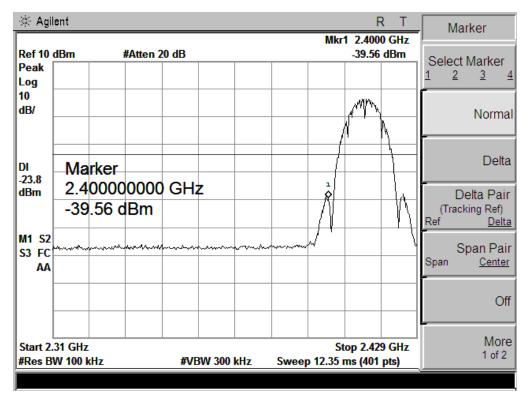


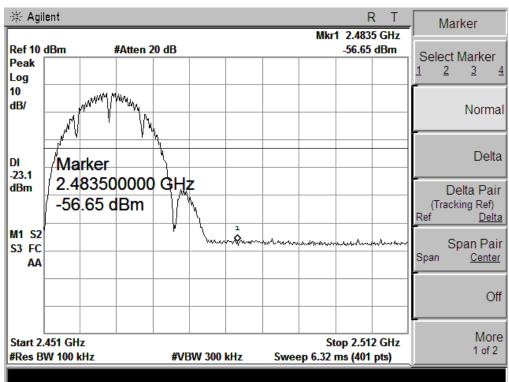
(CH High, 9kHz to 1GHz)



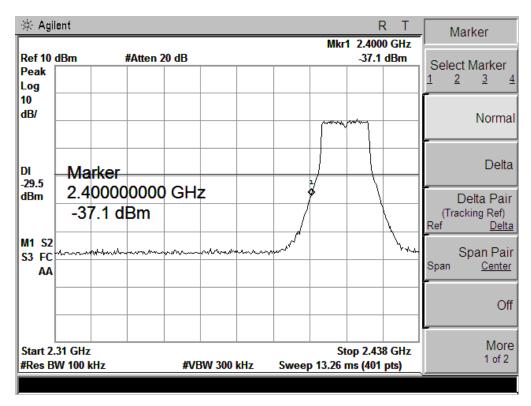
(CH High, 1GHz to 26.5GHz)

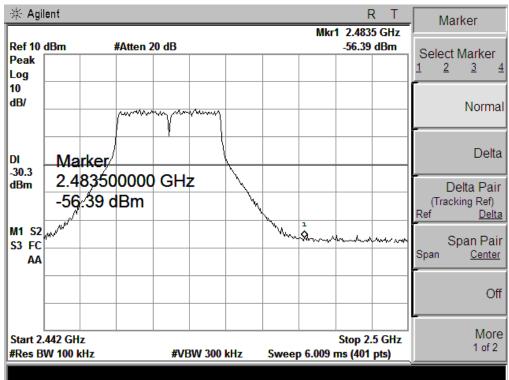
802.11b Model:



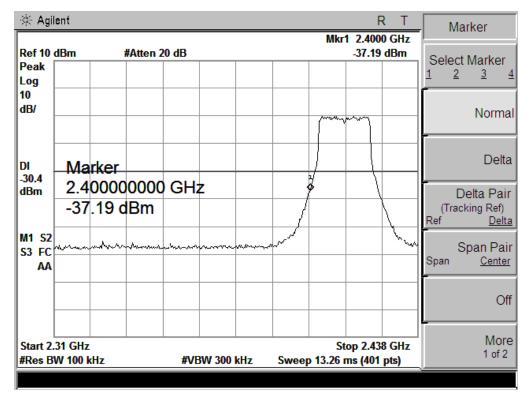


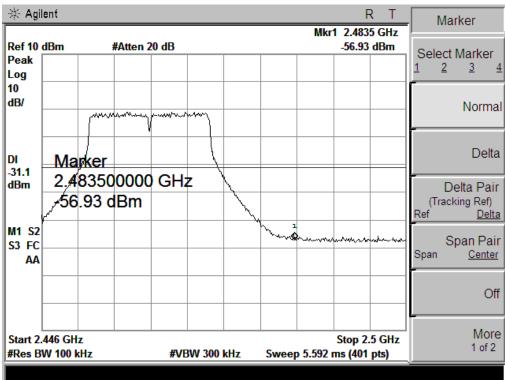
802.11g Model:





802.11n-HT20 Model:





5.4 Band Edge

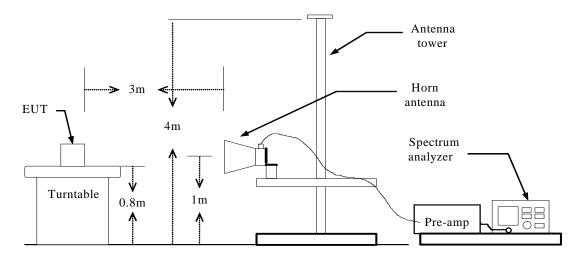
5.4.1 Definition

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.

5.4.2 Test Description

Spectrum Parameters	Setting				
Attenuation	Auto				
Start-stop ferquency	2350MHz-2420MHz/2450MHz-2500				
RB	1MHz				
VB	3MHz				
Detector	Peak				
Trace	Max Hold				
Sweep Time	Auto				

5.4.3 Test Configuration



5.4.4 Test Result

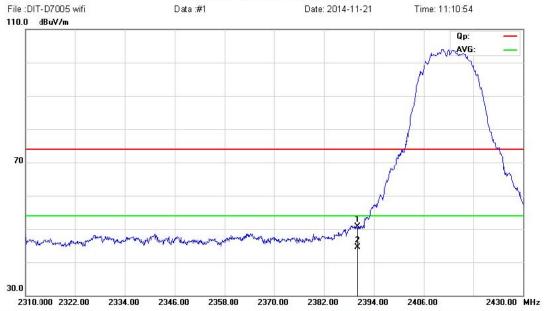
The EUT operates at continuous transmit test mode. The lowest and highest channels are tested to verify the band edge emissions.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1 Limit: FCC Part15 B Spurious Radiation(PEAK) Polarization: Horizontal

Power: DC 5V by Adapter

Temperature: 25.5

Humidity: 53 %

Distance:

EUT: Tablet PC M/N: DIT-D7005

Mode: Low CH Note: 802.11b

Reading Correct Measure-Antenna Table No. Mk. Freq. Limit Over Level Factor ment Height Degree MHz dBu∀ dΒ dBu∀/m dBuV/m dΒ Detector cm degree Comment 2390.000 40.25 10.36 50.61 74.00 0 -23.39 1 peak 44.58 2 2390.000 34.22 10.36 54.00 -9.42 AVG 0

Engineer Signature: lidegan

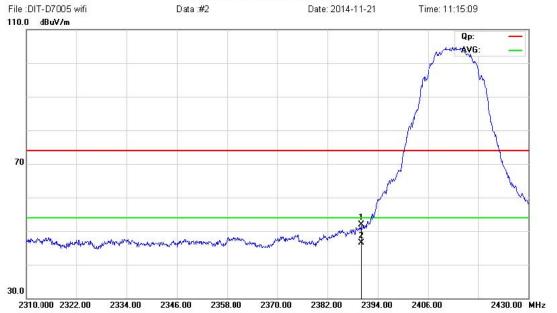
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1 Limit: FCC Part15 B Spurious Radiation(PEAK) Polarization: Vertical Power: DC 5V by Adapter

Temperature: 25.5 53 %

EUT: Tablet PC

Humidity:

M/N: DIT-D7005 Mode: Low CH Note: 802.11b

Distance:

No.	Ν	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		23	390.000	41.54	10.36	51.90	74.00	-22.10	peak		0	
2	*	23	390.000	36.24	10.36	46.60	54.00	-7.40	AVG		0	

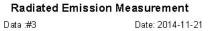
Engineer Signature: lidegan

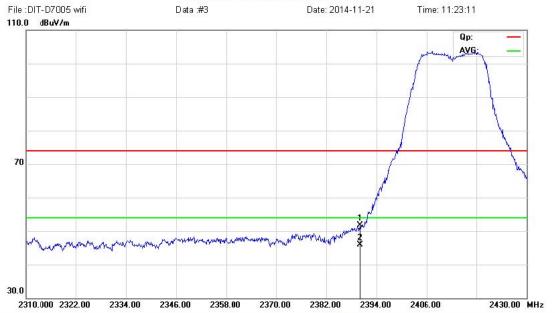
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350





Site MOST #1 Limit: FCC Part15 B Spurious Radiation(PEAK) Polarization: Vertical Temperature: 25.5

EUT: Tablet PC

Power: DC 5V by Adapter

Humidity: 53 %

M/N: DIT-D7005 Mode: Low CH Note: 802.11g

Distance:

No	. M	lk.	Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		23	390.000	41.25	10.36	51.61	74.00	-22.39	peak		0	
2	*	23	390.000	35.46	10.36	45.82	54.00	-8.18	AVG		0	

Engineer Signature: lidegan

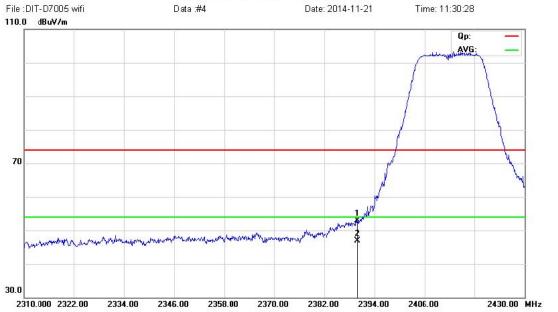
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1

Polarization: Horizontal

Distance:

Temperature: 25.5

Limit: FCC Part15 B Spurious Radiation(PEAK)

Power: DC 5V by Adapter

Humidity: 53 %

EUT: Tablet PC M/N: DIT-D7005

Mode: Low CH Note: 802.11g

No. MI	k. Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height		
	MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2390.000	42.56	10.36	52.92	74.00	-21.08	peak		0	
2 *	2390.000	36.58	10.36	46.94	54.00	-7.06	AVG		0	

Engineer Signature: lidegan

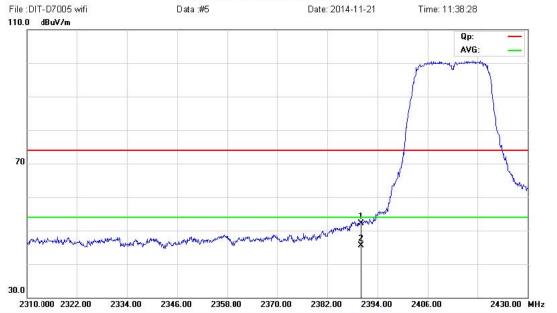
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1
Limit: FCC Part15 B Spurious Radiation(PEAK)

Polarization: Horizontal

Temperature: 25.5

EUT: Tablet PC

Power: DC 5V by Adapter

Humidity:

Distance:

53 %

M/N: DIT-D7005

Mode: Low CH Note: 802.11n-HT20

No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		23	90.000	41.68	10.36	52.04	74.00	-21.96	peak		0	
2	*	23	90.000	35.22	10.36	45.58	54.00	-8.42	AVG		0	

Engineer Signature: lidegan

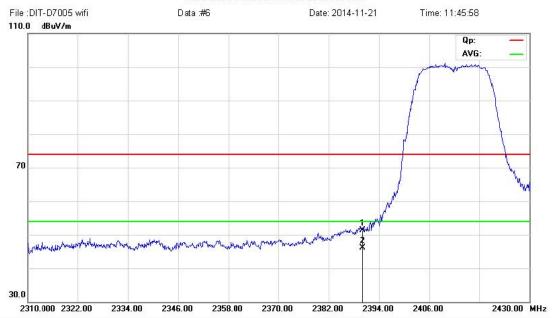
^{*:}Maximum data x:Over limit I:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1 Polari
Limit: FCC Part15 B Spurious Radiation(PEAK) Powel

Polarization: Vertical
Power: DC 5V by Adapter

Temperature: 25.5 Humidity: 53 %

Distance:

EUT: Tablet PC

M/N: DIT-D7005 Mode: Low CH Note: 802.11n-HT20

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	40.89	10.36	51.25	74.00	-22.75	peak		0	
2	*	2390.000	35.78	10.36	46.14	54.00	-7.86	AVG		0	

Engineer Signature: lidegan

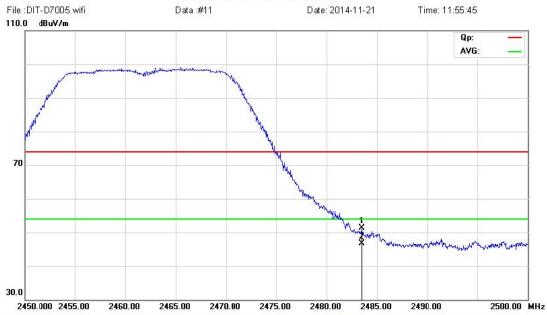
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1
Limit: FCC Part15 B Spurious Radiation(PEAK)

Polarization: Vertical

Temperature: 25.5

EUT: Tablet PC

Power: DC 5V by Adapter

Humidity: 53 %

M/N: DIT-D7005 Mode: High CH Note: 802.11n-HT20 Distance:

No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2	483.500	40.56	10.73	51.29	74.00	-22.71	peak		0	
2 7	* 2	483.500	35.97	10.73	46.70	54.00	-7.30	AVG		0	

Engineer Signature: lidegan

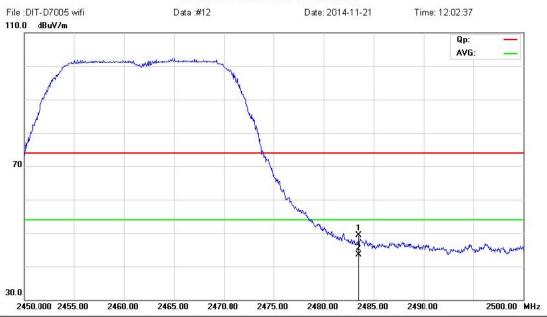
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1 Polarization: Horizontal Limit: FCC Part15 B Spurious Radiation(PEAK)

Power: DC 5V by Adapter

Temperature: 25.5 Humidity: 53 %

EUT: Tablet PC

M/N: DIT-D7005 Mode: High CH Note: 802.11n-HT20 Distance:

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24	83.500	38.56	10.73	49.29	74.00	-24.71	peak		0	
2	*	24	83.500	32.69	10.73	43.42	54.00	-10.58	AVG		0	

Engineer Signature: lidegan

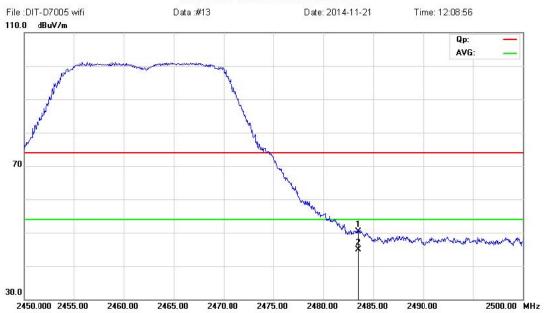
^{*:}Maximum data x:Over limit !:over margin



 $\label{eq:Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong\ \mbox{,} China$

Tel: 0755-86026850 Fax: 0755-26013350





Site MOST #1

Polarization: Horizontal

Distance:

Temperature: 25.5

Limit: FCC Part15 B Spurious Radiation(PEAK)

Power: DC 5V by Adapter

Humidity:

M/N: DIT-D7005 Mode: High CH

EUT: Tablet PC

Note: 802.11g

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	39.64	10.73	50.37	74.00	-23.63	peak		0	
2	*	2483.500	34.12	10.73	44.85	54.00	-9.15	AVG		0	

Engineer Signature: lidegan

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File:DIT-D7005 wifi Date: 2014-11-21 Data :#14 Time: 12:17:54 110.0 dBuV/m Qp: AVG: 70 30.0 2450.000 2455.00 2460.00 2465.00 2470.00 2475.00 2480.00 2485.00 2490.00 2500.00 MHz

Site MOST #1 Polarization: Vertical Temperature: 25.5 Power: DC 5V by Adapter Humidity: Limit: FCC Part15 B Spurious Radiation(PEAK)

EUT: Tablet PC Distance:

M/N: DIT-D7005 Mode: High CH Note: 802.11g

No	MŁ	k. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height		
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	39.68	10.73	50.41	74.00	-23.59	peak		0	
2	*	2483.500	33.56	10.73	44.29	54.00	-9.71	AVG		0	

Engineer Signature: lidegan 53 %

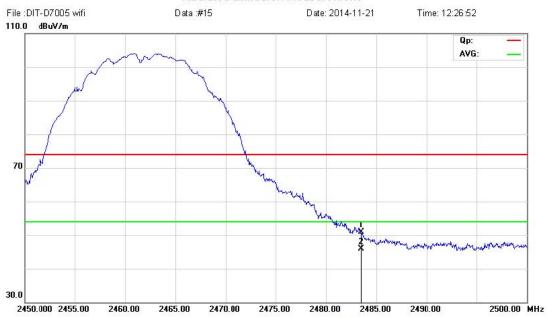
^{*:}Maximum data x:Over limit l:over margin



 $\label{eq:Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong\ \mbox{,} China$

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1 Limit: FCC Part15 B Spurious Radiation(PEAK) Polarization: Vertical

Temperature: 25.5

EUT: Tablet PC

Power: DC 5V by Adapter

Humidity: 53 %

M/N: DIT-D7005 Mode: High CH

Note: 802.11b

Distance:

No.	Ν	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24	483.500	40.21	10.73	50.94	74.00	-23.06	peak		0	
2	*	24	483.500	35.21	10.73	45.94	54.00	-8.06	AVG		0	

Engineer Signature: lidegan

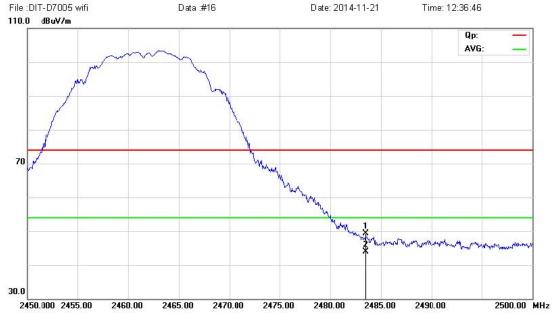
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site MOST #1

Polarization: Horizontal

Temperature: 25.5

Limit: FCC Part15 B Spurious Radiation(PEAK)

Power: DC 5V by Adapter

Humidity: 53 %

M/N: DIT-D7005 Mode: High CH Note: 802.11b

EUT: Tablet PC

Distance:

No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		248	83.500	38.67	10.73	49.40	74.00	-24.60	peak		0	
2	*	248	83.500	33.22	10.73	43.95	54.00	-10.05	AVG		0	

Engineer Signature: lidegan

^{*:}Maximum data x:Over limit !:over margin

5.5 Power Spectral Density (PSD)

5.5.1 Definition

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band.

5.5.2 Limit

	FCC Part15(15.247)									
Section	Test Item	Limit	Frequency Range(MHz)	Result						
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2402-2483.5	PASS						

5.5.3 Test Configuration

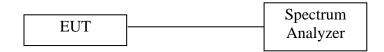


5.5.4 Test Description

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	1.5 DTS Bandwidth
RB	100kHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- a. Set analyzer center frequency to DTS Channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3kHz \le RBW \le 100kHz$.
- d. Set the VBW \geqslant 3×RBW.
- e. Detector=peak.
- f. Sweep time=auto couple.
- g. Trace mode=max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level with the RBW.
- j. If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat.

5.5.5 Test Configuration



5.5.6 Operation Condition

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.

5.5.7 Test Result

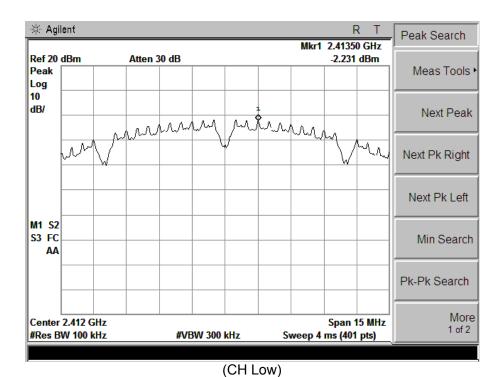
The lowest, middle and highest channels are tested to verify the power spectral density.

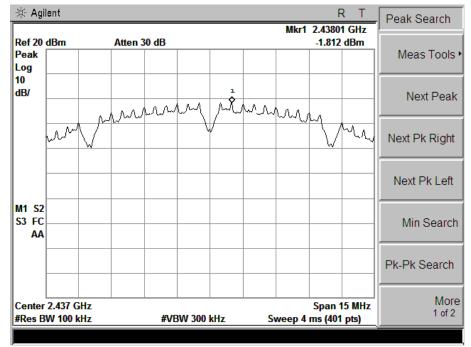
5.5.6.1 802.11b Test Mode

A. Test Verdict:

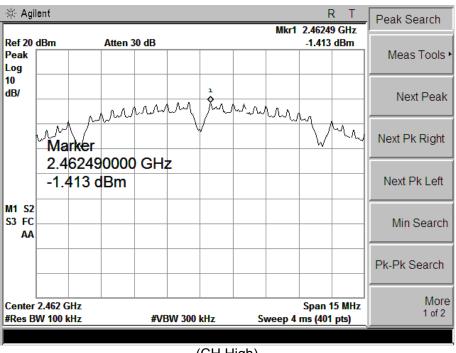
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-2.231	€8	PASS
7	2437	-1.812	€8	PASS
11	2462	-1.413	€8	PASS

B. Test Plot:





(CH Mid)



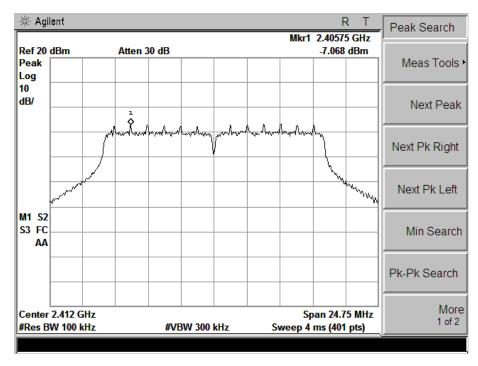
(CH High)

5.5.6.2 802.11g Test Mode

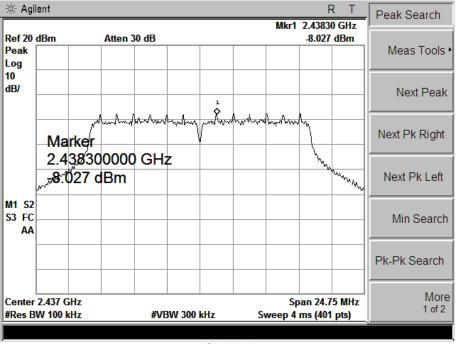
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-7.086	≪8	PASS
7	2437	-8.027	€8	PASS
11	2462	-5.823	≤8	PASS

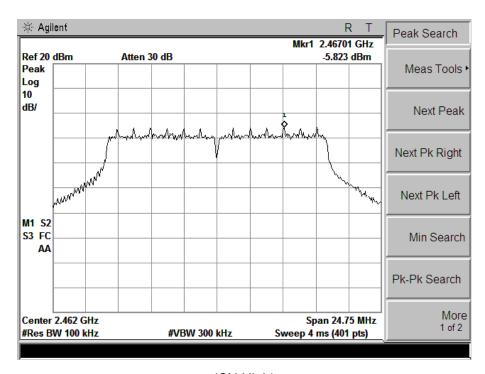
B. Test Plot:



(CH Low)



(CH Mid)



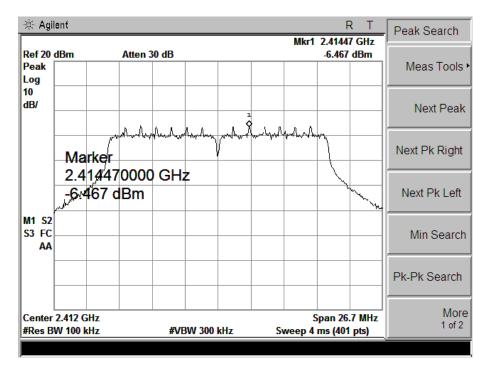
(CH High)

5.5.6.3 802.11n(20MHz) Test Mode

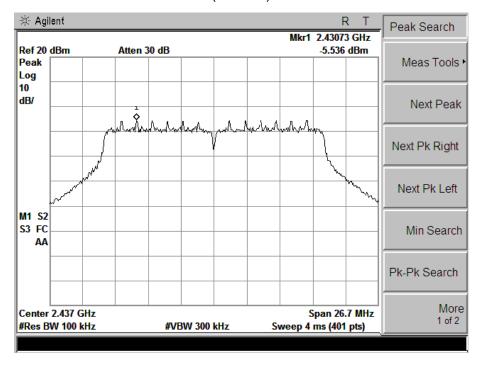
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-6.467	≪8	PASS
7	2437	-5.536	€8	PASS
11	2462	-5.681	€8	PASS

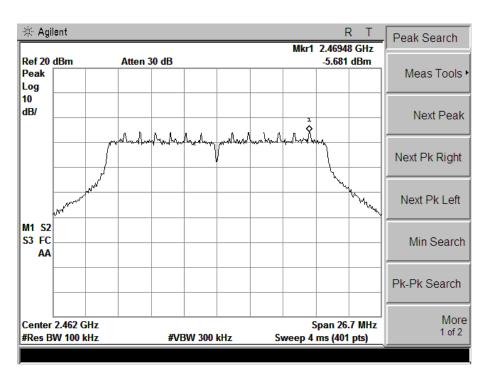
B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

5.6 Conducted Emission

5.6.1 Definition

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \, \mu H/50$ ohms line impedance stabilization network (LISN).

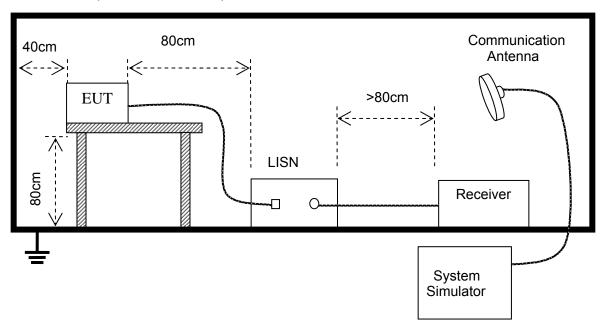
Fraguency	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz-500kHz	66-56	56-46				
500kHz-5MHz	56	46				
5MHz-30MHz	60	50				

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.6.2 Test Description

The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.



5.6.3 Test Result

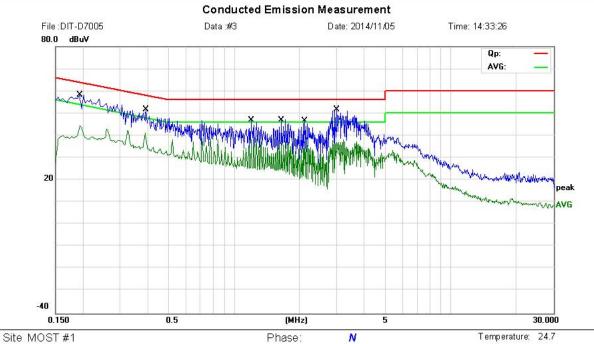
A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The Wifi model was carried out for 802.11b/g/n modulation types with two adapters, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong, China

Tel: 0755-86026850 Fax: 0755-26013350



Limit: FCC Part15 B Class B QP

EUT: Tablet PC M/N: DIT-D7005

Note:

Power: DC 5V by Adapter Humidity: 53 % Mode: Charging+WIFI

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.1924	46.28	11.54	57.82	63.93	-6.11	QP	
2	0.1924	31.33	11.54	42.87	53.93	-11.06	AVG	
3	0.3900	30.29	10.73	41.02	48.06	-7.04	AVG	
4	0.3940	41.07	10.71	51.78	57.98	-6.20	QP	
5	1.2020	36.92	9.80	46.72	56.00	-9.28	QP	
6	1.2020	28.22	9.80	38.02	46.00	-7.98	AVG	
7	1.6580	37.45	9.34	46.79	56.00	-9.21	QP	
8	1.6580	27.40	9.34	36.74	46.00	-9.26	AVG	
9	2.1140	37.55	9.11	46.66	56.00	-9.34	QP	
10	2.1140	28.29	9.11	37.40	46.00	-8.60	AVG	
11	2.9900	27.06	9.99	37.05	46.00	-8.95	AVG	
12 *	2.9940	41.81	9.99	51.80	56.00	-4.20	QP	

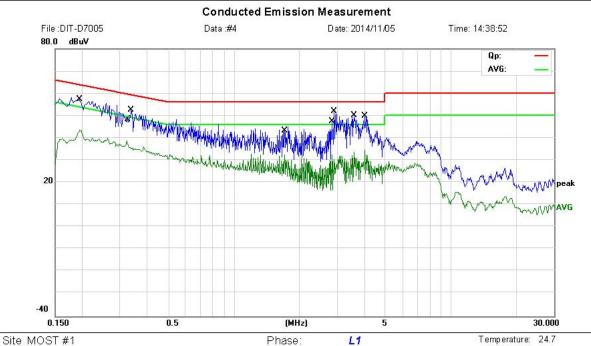
^{*:}Maximum data x:Over limit !:over margin

Engineer Signature: Kang



 $\label{eq:Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong\ , China$

Tel: 0755-86026850 Fax: 0755-26013350



Limit: FCC Part15 B Class B QP

EUT: Tablet PC M/N: DIT-D7005 Mode: Charging+WIFI

Note:

Power: DC 5V by Adapter Humidity: 53 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∀	dBu√	dB	Detector	Comment
1	0.1940	45.66	11.64	57.30	63.86	-6.56	QP	
2	0.1940	31.91	11.64	43.55	53.86	-10.31	AVG	
3	0.3234	26.99	11.18	38.17	49.62	-11.45	AVG	
4	0.3340	38.20	11.11	49.31	59.35	-10.04	QР	
5	1.7140	33.98	9.29	43.27	56.00	-12.73	QP	
6	1.7140	23.23	9.29	32.52	46.00	-13.48	AVG	
7	2.8460	22.51	9.85	32.36	46.00	-13.64	AVG	
8 *	2.9140	41.91	9.91	51.82	56.00	-4.18	QР	
9	3.5900	39.58	10.59	50.17	56.00	-5.83	QP	
10	3.5900	23.08	10.59	33.67	46.00	-12.33	AVG	
11	4.0420	38.78	11.04	49.82	56.00	-6.18	QР	
12	4.0420	23.41	11.04	34.45	46.00	-11.55	AVG	

^{*:}Maximum data x:Over limit !:over margin

Engineer Signature: Kang

5.7 Radiated Emission

5.7.1 Definition

According to FCC section 15.247(d), radiated emission outside the frequency band 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)).

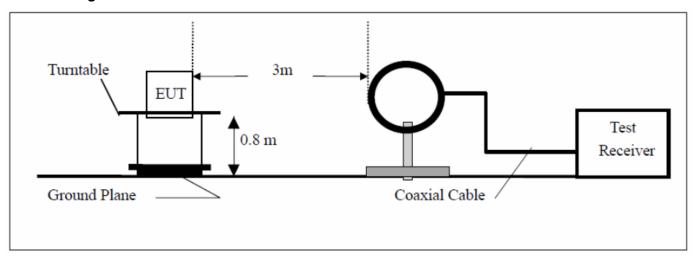
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
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

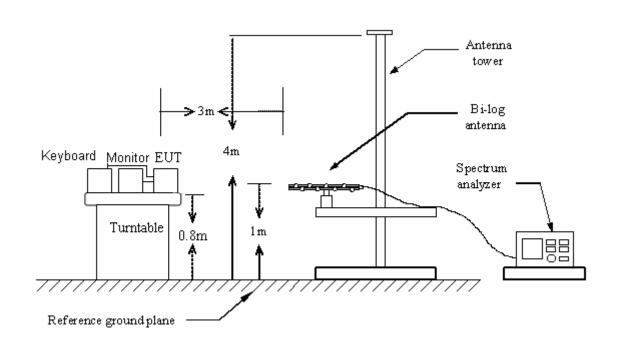
As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

5.7.2 Test Description

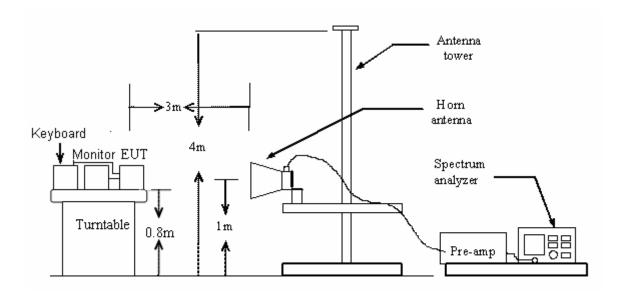
A. Test Configuration:



Below 1GHz:



Above 1GHz:



B. Test procedures

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.7.3 Test Result

The Wifi model was carried out for 802.11b/g/n modulation types with two adapters, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.

From 9KHz to 30MHz:

EUT:	Tablet PC	Model Name. :	DIT-D7005
Temperature:	26 ℃	Relative Humidity:	61%
Pressure:	1010 hPa	Test Voltage:	DC 5V by Adaptor
Test Mode:	TX	Polarization :	

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

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 =20 log (specific distance/test distance)(dB);

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

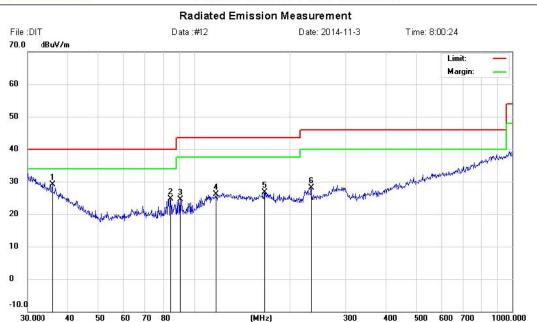
Conclusion: PASS

Below 1 GHz



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong China

Tel: 0755-86026850 Fax: 0755-26013350



Site Chamber #1

Limit: FCC Part15 B 3M Radiation

EUT: Tablet PC M/N: DIT-D7005 Mode: WIFI+Charging

Note:

Polarization: Vertical

Power: DC 5V by Adapter Humidity:

Temperature: 27.3

46 %

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	36.0007	10.31	18.88	29.19	40.00	-10.81	QP			
2		84.1100	13.34	11.40	24.74	40.00	-15.26	QΡ			
3		90.5374	13.07	11.50	24.57	43.50	-18.93	QΡ			
4	1	16.9495	8.94	17.07	26.01	43.50	-17.49	QΡ			
5	1	66.6514	9.55	17.23	26.78	43.50	-16.72	QΡ			
6	2	233.3487	11.41	16.73	28.14	46.00	-17.86	QΡ			

Engineer Signature:

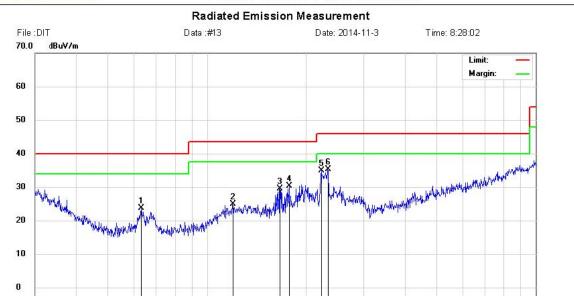
Cesc

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong, China

Tel: 0755-86026850 Fax: 0755-26013350



Site Chamber #1

-10.030.000

Limit: FCC Part15 B 3M Radiation

50 60 70 80

EUT: Tablet PC M/N: DIT-D7005 Mode: WIFI+Charging

Note:

Polarization: Horizontal

Power: DC 5V by Adapter

Temperature: 27.3 Humidity:

600 700

Distance: 3m

500

400

46 %

1000.000

Reading Correct Measure-Antenna Table Limit Over No. Mk. Freq. Level Factor Height Degree ment MHz dBu∀ dΒ dBuV/m dBuV/m dΒ Detector degree Comment 63.0916 23.70 QΡ 1 12.62 11.08 40.00 -16.30 QΡ 2 119.4361 7.39 17.42 24.81 43.50 -18.69 3 166.6514 12.28 17.23 29.51 43.50 -13.99 QΡ 4 178.1327 13.50 16.79 30.29 43.50 -13.21 QΡ 5 222.9502 18.55 16.36 34.91 46.00 -11.09 QΡ 6 233.3487 18.60 16.73 35.33 46.00 -10.67 QΡ

(MHz)

Engineer Signature:

Cesc

^{*:}Maximum data x:Over limit Lover margin

Above 1 GHz

Operation Mode: TX/ IEEE 802.11b/CH Low Test Date: Nov. 04, 2014

Temperature: 26°C **Tested by:** Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824	Н	38.44	16.01	23.78	54.45	39.79	74.00	54.00	-14.21
N/A	Η								
4824	V	37.07	16.20	24.01	53.27 40.21		74.00	54.00	-13.79
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH MID Test Date: Nov. 04, 2014

Temperature: 26°C Tested by: Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4874	Н	36.25	14.27	23.78	50.52	38.05	74.00	54.00	-15.95
N/A	Η								
4874	V	36.91	14.66	24.01	51.56 38.67		74.00	54.00	-15.33
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH High Test Date: Nov. 04, 2014

Temperature: 26°C Tested by: Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4924	Н	36.24	13.08	23.78	49.32	36.86	74.00	54.00	-17.14
N/A	Η								
4924	V	35.76	14.76	24.01	50.52 38.77		74.00	54.00	-15.23
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Low Test Date: Nov. 04, 2014

Temperature: 26°C **Tested by:** Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824	Н	35.25	14.40	23.78	59.03	38.18	74.00	54.00	-15.82
N/A	Η								
4824	V	36.42	13.88	24.01	60.43 37.89		74.00	54.00	-16.11
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH MID Test Date: Nov. 04, 2014

Temperature: 26°C **Tested by:** Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4874	Н	36.75	15.45	23.78	60.53	39.23	74.00	54.00	-14.77
N/A	Η								
4874	V	35.88	14.52	24.01	59.89 38.53		74.00	54.00	-15.47
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH High Test Date: Nov. 04, 2014

Temperature: 26°C **Tested by:** Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV	
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin	
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)	
					(dBuV/m)	(dBuV/m)				
4924	Н	34.04	16.07	23.78	57.82	39.85	74.00	54.00	-14.15	
N/A	Н									
4924	V	34.85	15.48	24.01	58.86	39.49	74.00	54.00	-14.51	
N/A	V									

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Nov. 04, 2014

Operation Mode: TX/ IEEE 802.11n(20MHz)/CH

Low Test Date:

Temperature: 26°C **Tested by:** Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824	Η	34.20	13.74	23.78	57.98	37.52	74.00	54.00	-16.48
N/A	Η								
4824	V	34.80	13.52	24.01	58.81	37.53	74.00	54.00	-16.47
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie:
 - margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6.Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n(20MHz)/CH

Mid

Test Date: Nov. 04, 2014

Temperature: 26°C Tested by: Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4874	Н	34.06	12.99	23.78	57.84	36.77	74.00	54.00	-17.23
N/A	Η								
4874	V	34.24	13.23	24.01	58.25	37.24	74.00	54.00	-16.76
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6 Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n(20MHz)/CH

High

Test Date: Nov. 04, 2014

Temperature: 26°C Tested by: Roy

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4924	Н	33.19	12.99	23.78	56.97	36.77	74.00	54.00	-17.23
N/A	Η								
4924	V	34.62	13.09	24.01	58.63	37.10	74.00	54.00	-16.90
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie:
- margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6.Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

5.8 Antenna Requirement

5.8.1 Definition

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, An analysis of the EUT was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

5.8.2 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

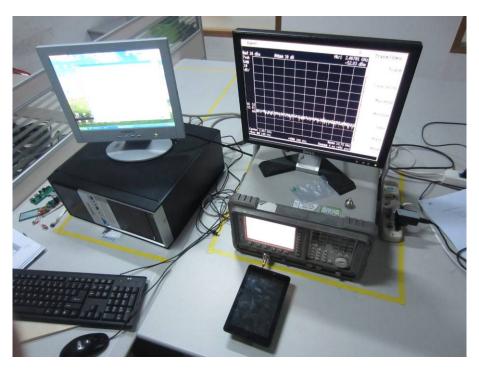
5.8.3 Evaluation Results

The antenna used in this product is FPC antenna. The antenna is permanently attached. It is inaccessible to the user.

The EUT is therefore compliant with the regulation.

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

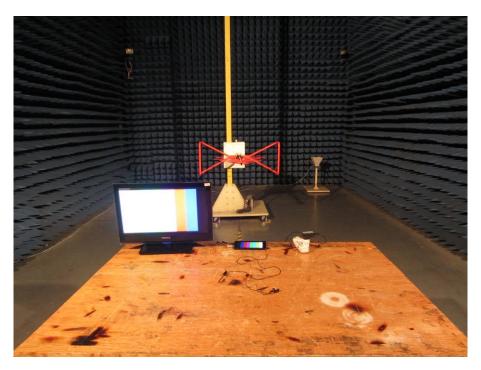
CONDUCTED TEST SETUP



CE TEST SETUP



RE TEST SETUP





-----END OF REPORT-----