

FCC RADIO TEST REPORT-BT 4.0

FCC ID: 2AC76DI-1011

Product: Tablet PC

Trade Name: N/A

Model Name: DI-1011

DI-838, DI-751, DI-841, DI-931, DI-832, DI-742,

Serial Model: DI-1041,DI-622,DI-726,DI-1033,DI-9732,DI-741, DI-839,DI-1001,DI-1002,DI-761,DI-861,DW-005,

ST-001.DI-743

Report No.: NTEK-2014NT0610866F3

Prepared for

DIGILINK GROUP CO., LTD.

3th Floor, Block B3, HengFeng Industrial Park, Bao an district, Shen Zhen, China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China

Tel.: +86-0755-61156588 Fax.: +86-0755-61156599 Website:www.ntek.org.cn



TEST RESULT CERTIFICATION

Report No.: NTEK-2014NT0610866F3

Applicant's name	DIGILINK GR	OUP CO., LTI	O.	
			eng Industrial Park, Bao	an district,
	Shen Zhen Ch			
Manufacture's Name		•		
Address	3th Floor, Bloc Shen Zhen Ch		eng Industrial Park, Bao	an district,
Product description				
Product name	Tablet PC			
reference	DI-1011			
Serial Model	DI-1041,DI-622	2,DI-726,DI-103	DI-832,DI-742, 3,DI-9732,DI-741, 1,DI-861,DW-005, ST-00 [,]	1,DI-743
Standards	FCC Part15.24	7: 01 Oct. 2013	3	
Test procedure	ANSI C63.4-20	03 and KDB 55	58074 D01 DTS Meas G	Guidance v03r02
	UT) is in compli	ance with the F	, and the test results show CC requirements. And it is	
•	d or revised by	•	ut the written approval of il only, and shall be noted	
Date (s) of performance	of tests 10 c	Jun. 2014 ~02 J	Iul. 2014	
Date of Issue				
Test Result	Pas	SS		
Testing	ı Engineer		Denny Huang	
Technic	cal Manager	:	Brown Lu (Brown Lu)	-
Author	ized Signatory	:	(Bill Yao)	-



Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS 1.1 TEST FACILITY 1.2 MEASUREMENT UNCERTAINTY	5 6 6
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	_
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3 . EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD	13 13 14 14
3.1.4 TEST SETUP	14
3.1.5 EUT OPERATING CONDITIONS 3.1.6 TEST RESULTS	14 15
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 RADIATED EMISSION LIMITS	17
3.2.2 TEST PROCEDURE	18
3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP	18 19
3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS	20
3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	21
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)	22
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	24
4 . POWER SPECTRAL DENSITY TEST	25
4.1 APPLIED PROCEDURES / LIMIT	25
4.1.1 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD	25 25
4.1.3 TEST SETUP	25 25
4.1.4 EUT OPERATION CONDITIONS	25
4.1.5 TEST RESULTS	26
5 . BANDWIDTH TEST	28
5.1 APPLIED PROCEDURES / LIMIT	28
5.1.1 TEST PROCEDURE	28



Table of Contents

Table of Contents	_
	Page
TEST SETUP	28
5.1.2 EUT OPERATION CONDITIONS	28
5.1.3 TEST RESULTS	29
6 . PEAK OUTPUT POWER TEST	31
6.1 APPLIED PROCEDURES / LIMIT	31
6.1.1 TEST PROCEDURE	31
6.1.2 DEVIATION FROM STANDARD	31
6.1.3 TEST SETUP	31
6.1.4 EUT OPERATION CONDITIONS	31
6.1.5 TEST RESULTS	32
7 . 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	33
7.1 DEVIATION FROM STANDARD	33
7.2 TEST SETUP	33
7.3 EUT OPERATION CONDITIONS	33
7.4 TEST RESULTS	34
8 . ANTENNA REQUIREMENT	36
8.1 STANDARD REQUIREMENT	36
8.2 EUT ANTENNA	36
9 . EUT TEST PHOTO APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	37



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)" N/A" denotes test is not applicable in this Test Report



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.

Report No.: NTEK-2014NT0610866F3

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC		
Trade Name	N/A		
Model Name	DI-1011		
Serial Model	DI-1041,DI-622,DI-72	,DI-931,DI-832,DI-742, 26,DI-1033,DI-9732,DI-741, 302,DI-761,DI-861,DW-005,	
Model Difference	All the model are the	same circuit and RF module,	
meder Billerenee	except the model nan		
	The EUT is a Tablet F	PC	
	Operation	2402~2480MHz	
	Frequency:		
	Modulation Type:	GFSK	
	Number Of Channel	40CH	
	Antenna	Please see Note 3.	
	Designation:		
Product Description	Output	0.73 dBm(MAX)	
	Power(Conducted):		
	Antenna Gain (dBi)	2.0dbi	
	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	Model:FJ-SW0502000N Input: 100-240V~,50/60Hz,0.6AMAX Output: 5.0V===, 2000mA		
Battery	DC 3.7V, 5600mAh		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

Channel	Frequency (MHz)
00	2402
01	2404
•••••	•••••
•••••	•••••
38	2478
39	2480

Page 8 of 38

3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	FPCB Antenna	N/A	2.0	BT 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	CH00
Mode 2	CH19
Mode 3	CH39
Mode 4	Link Mode

For Conducted Emission			
Final Test Mode Description			
Mode 4	Link Mode		

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH19		
Mode 3	CH39		
Mode 4	Link Mode		

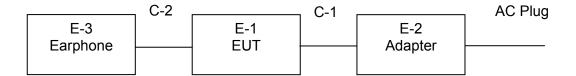
Note:

- (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

E-1 EUT



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	Tablet PC	N/A	DI-1011	N/A	EUT
E-2	Adapter	N/A	FJ-SW0502000N		
E-3	Earphone	N/A	2688		

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	
C-2	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 <code>[Length]</code> 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	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	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	620026441 6	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-101 80	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	Manufactu rer	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
---	-------------	-----	----------	--------	------------	------------	--------



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	Class A (dBuV)		Class B (dBuV)		
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard	
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



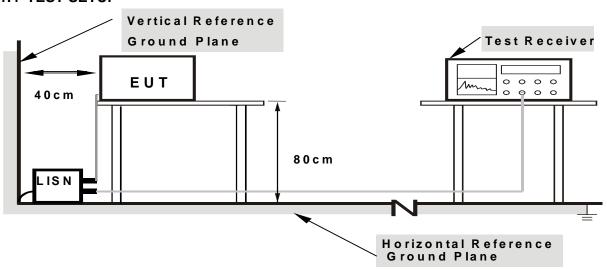
3.1.2 TEST PROCEDURE

- 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 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.



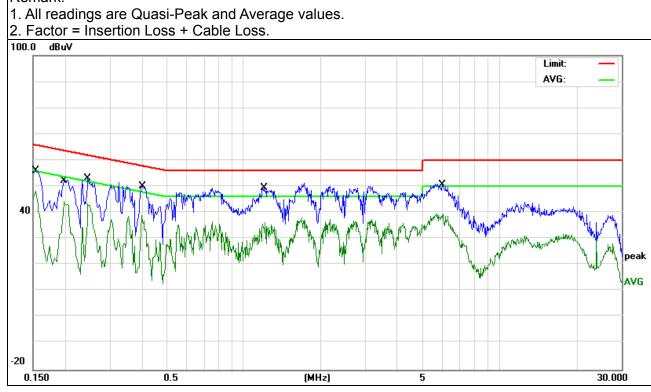
3.1.6 TEST RESULTS

EUT:	Tablet PC	Model Name. :	DI-1011
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
Test Voltage .	DC 5V form Adapter AC 120V/60Hz	Test Mode:	Mode 4

Page 15 of 38

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1539	46.16	9.62	55.78	65.78	-10.00	QP
0.1539	38.49	9.62	48.11	55.78	-7.67	AVG
0.1980	34.93	9.50	44.43	53.69	-9.26	AVG
0.1980	42.37	9.50	51.87	63.69	-11.82	QP
0.2459	43.67	9.49	53.16	61.89	-8.73	QP
0.2459	33.87	9.49	43.36	51.89	-8.53	AVG
0.3980	29.43	9.50	38.93	47.89	-8.96	AVG
0.3980	40.35	9.50	49.85	57.89	-8.04	QP
1.2137	38.73	9.53	48.26	56.00	-7.74	QP
1.2137	26.77	9.53	36.30	46.00	-9.70	AVG
6.0057	41.06	9.64	50.70	60.00	-9.30	QP
6.0057	29.92	9.64	39.56	50.00	-10.44	AVG

Remark:



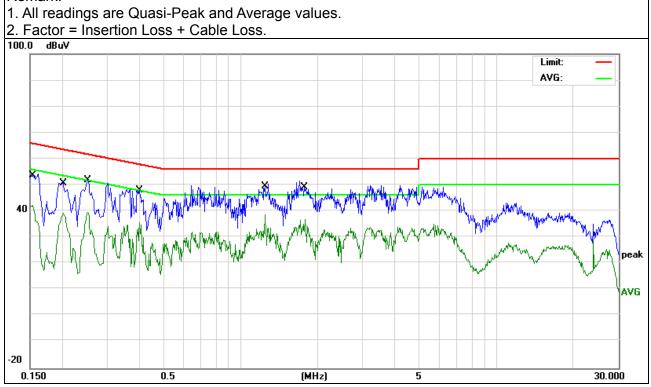


EUT:	Tablet PC	Model Name. :	DI-1011
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Test vollage .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Page 16 of 38

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1539	43.86	9.65	53.51	65.78	-12.27	QP
0.1539	32.62	9.65	42.27	55.78	-13.51	AVG
0.2020	41.08	9.50	50.58	63.52	-12.94	QP
0.2020	29.62	9.50	39.12	53.52	-14.40	AVG
0.2519	29.90	9.51	39.41	51.69	-12.28	AVG
0.2519	42.19	9.51	51.70	61.69	-9.99	QP
0.4020	38.57	9.52	48.09	57.81	-9.72	QP
0.4020	26.19	9.52	35.71	47.81	-12.10	AVG
1.2459	40.05	9.55	49.60	56.00	-6.40	QP
1.2459	29.01	9.55	38.56	46.00	-7.44	AVG
1.7860	39.71	9.57	49.28	56.00	-6.72	QP
1.7860	27.20	9.57	36.77	46.00	-9.23	AVG

Remark:





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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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 (dBu	ıV/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	4 Mile / 4 Mile for Dook 4 Mile / 40//e for Average
band)	1 MHz / 1 MHz for Peak, 1 MHz / <i>10Hz</i> 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.

Report No.: NTEK-2014NT0610866F3

- 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	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

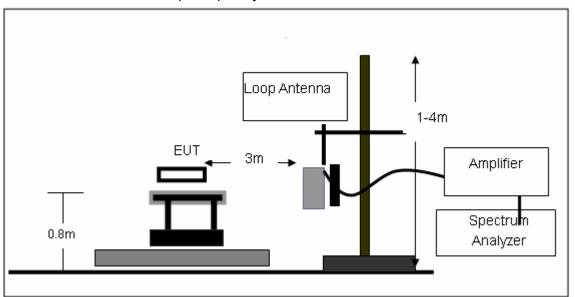
No deviation



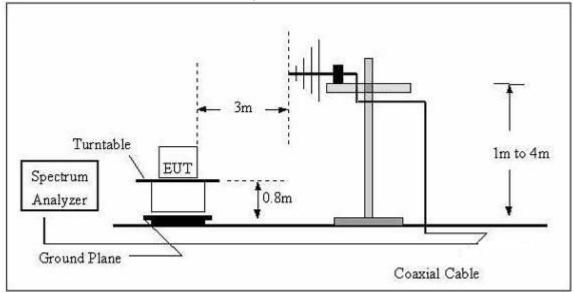
3.2.4 TEST SETUP

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

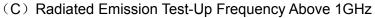
Page 19 of 38

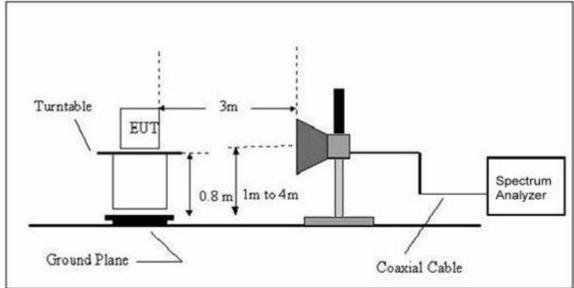


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz









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:	Tablet PC	Model Name. :	DI-1011
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2014NT0610866F3

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 (specific distance/test distance)(dB);

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



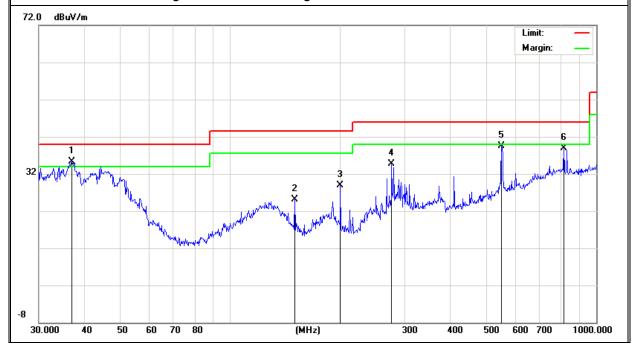
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	Tablet PC	Model Name :	DI-1011
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	36.8952	19.80	15.50	35.30	40.00	-4.70	QP
V	150.0107	14.67	10.41	25.08	43.50	-18.42	QP
V	199.9856	18.17	10.78	28.95	43.50	-14.55	QP
V	276.1235	20.75	13.88	34.63	46.00	-11.37	QP
V	550.9479	18.15	21.36	39.51	46.00	-6.49	QP
V	815.9678	11.59	27.36	38.95	46.00	-7.05	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



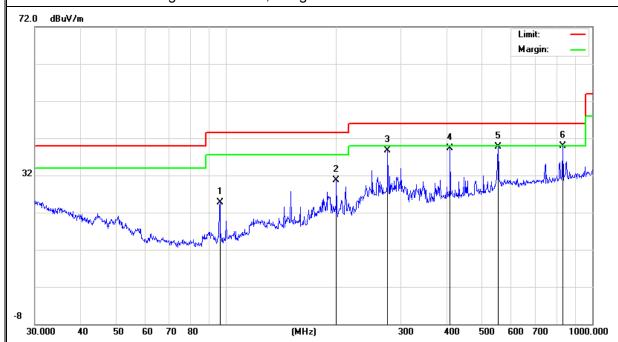


Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	96.0986	16.06	8.57	24.63	43.50	-18.87	QP
Н	199.9856	19.84	10.78	30.62	43.50	-12.88	QP
Н	276.1235	24.82	13.88	38.70	46.00	-7.30	QP
Н	408.9460	20.87	18.49	39.36	46.00	-6.64	QP
Н	552.8831	18.40	21.40	39.80	46.00	-6.20	QP
Н	830.4002	12.60	27.30	39.90	46.00	-6.10	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Page 23 of 38





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Tablet PC	Model Name :	DI-1011
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

Frequency (MHz)	Reading (dBµV)	Factor (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detect or (PK/QP /AV)	Polar (H/V)
		Low Cl	nannel (2402 MHz)	Above 1G			
4804.122	59.81	-3.64	63.45	74.00	-10.55	Pk	Vertical
4804.122	43.12	-3.64	46.76	54.00	-7.24	AV	Vertical
7206.264	52.96	-0.95	53.91	74.00	-20.09	Pk	Vertical
7206.264	38.04	-0.95	38.99	54.00	-15.01	AV	Vertical
4804.147	60.19	-3.64	63.83	74.00	-10.17	Pk	Horizontal
4804.147	43.02	-3.64	46.66	54.00	-7.34	AV	Horizontal
7206.078	54.16	-0.95	55.11	74.00	-18.89	Pk	Horizontal
7206.078	37.97	-0.95	38.92	54.00	-15.08	AV	Horizontal
		Mid Ch	nannel (2440 MHz)-	Above 1G			
4880.364	62.41	-3.68	66.09	74.00	-7.91	Pk	Vertical
4880.364	45.48	-3.68	49.16	54.00	-4.84	AV	Vertical
7320.176	55.83	-0.82	56.65	74.00	-17.35	Pk	Vertical
7320.176	40.68	-0.82	41.50	54.00	-12.50	AV	Vertical
4880.365	62.33	-3.68	66.01	74.00	-7.99	Pk	Horizontal
4880.365	45.48	-3.68	49.16	54.00	-4.84	AV	Horizontal
7320.258	55.73	-0.82	56.55	74.00	-17.45	Pk	Horizontal
7320.258	39.95	-0.82	40.77	54.00	-13.23	AV	Horizontal
		High C	hannel (2480MHz)-	Above 1G			
4960.112	59.89	-3.59	63.48	74.00	-10.52	Pk	Vertical
4960.112	42.73	-3.59	46.32	54.00	-7.68	AV	Vertical
7440.241	53.36	-0.68	54.04	74.00	-19.96	Pk	Vertical
7440.241	37.58	-0.68	38.26	54.00	-15.74	AV	Vertical
4960.225	59.72	-3.59	63.31	74.00	-10.69	Pk	Horizontal
4960.225	42.88	-3.59	46.47	54.00	-7.53	AV	Horizontal
7440.153	53.23	-0.68	53.91	74.00	-20.09	Pk	Horizontal
7440.153	37.09	-0.68	37.77	54.00	-16.23	AV	Horizontal



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Frequency Range (MHz)	Result			
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

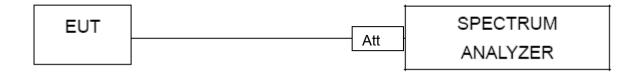
4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 kHz ≤Set the RBW≤100 kHz.
- 4. Set the VBW \geq 3 x 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.

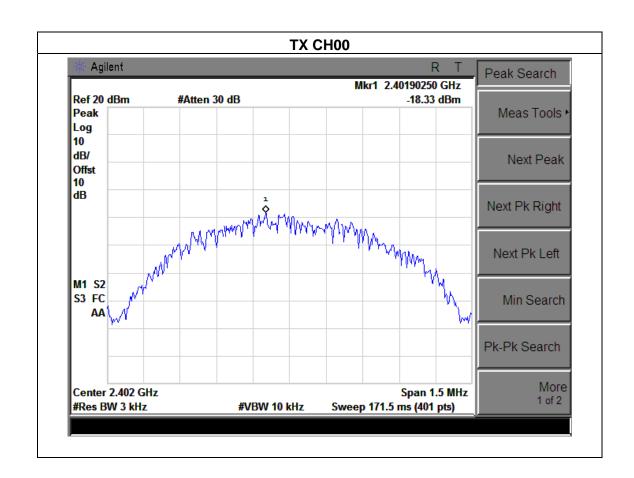


4.1.5 TEST RESULTS

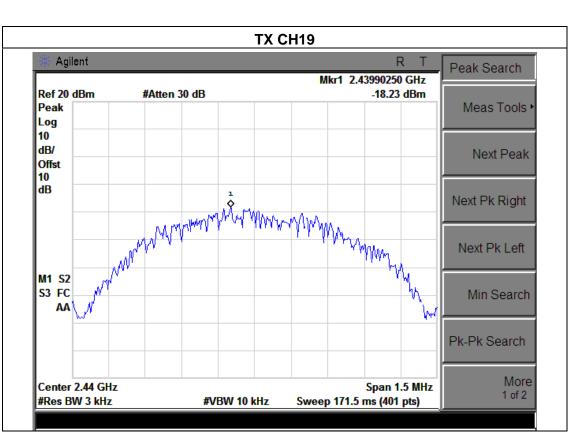
EUT:	Tablet PC	Model Name :	DI-1011
Temperature:	25 ℃	Relative Humidity:	56%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

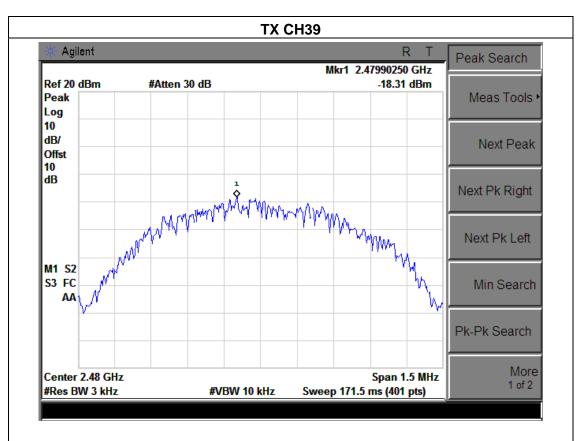
Page 26 of 38

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-18.33	8	PASS
2440 MHz	-18.23	8	PASS
2480 MHz	-18.31	8	PASS











5. BANDWIDTH TEST

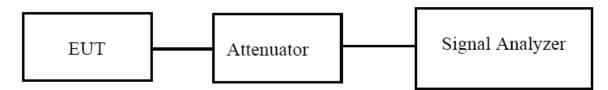
5.1 APPLIED PROCEDURES / LIMIT

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 x 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.

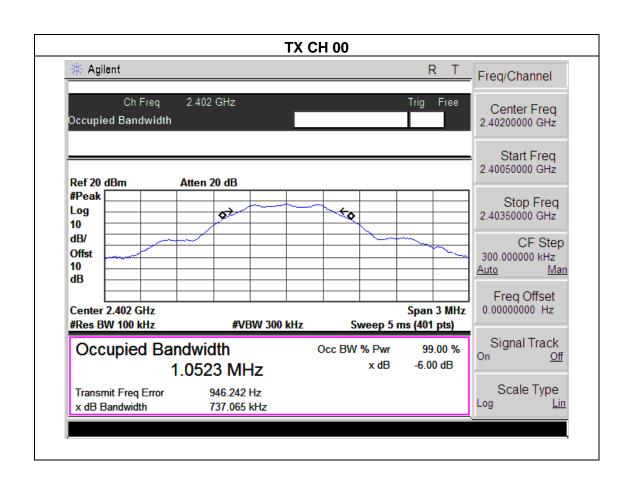


5.1.3 TEST RESULTS

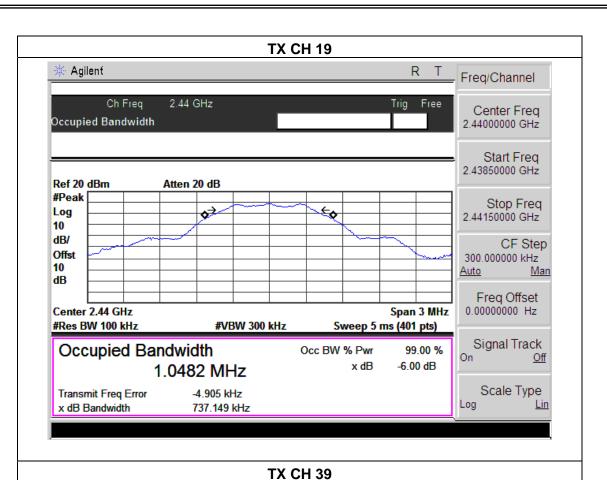
EUT:	Tablet PC	Model Name :	DI-1011
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

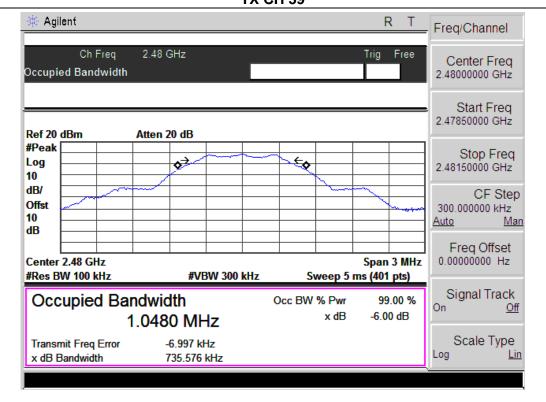
Page 29 of 38

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	737.065	500	Pass
Middle	2440	737.149	500	Pass
High	2480	735.576	500	Pass











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

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	POWER	METED
	TONLIK	ML I LIX

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:	Tablet PC	Model Name :	DI-1011
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode		

Test Channe	Frequency	Maximum Conducted Output Power (PK)	LIMIT
	(MHz)	(dBm)	dBm
CH00	2402	0.73	30
CH19	2440	0.66	30
CH39	2480	0.61	30



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:	Tablet PC	Model Name :	DI-1011
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

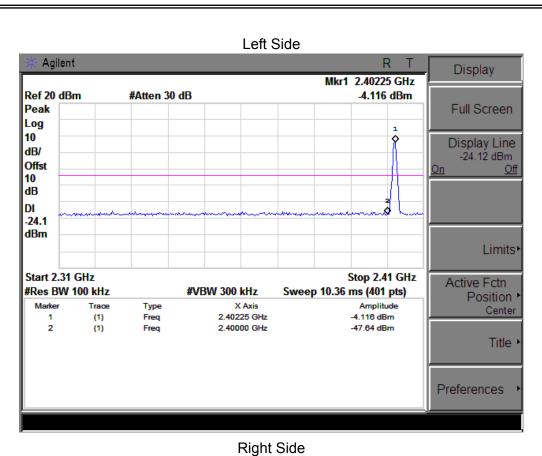
Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
Left-band	43.524	20	Pass
Right-band	43.827	20	Pass

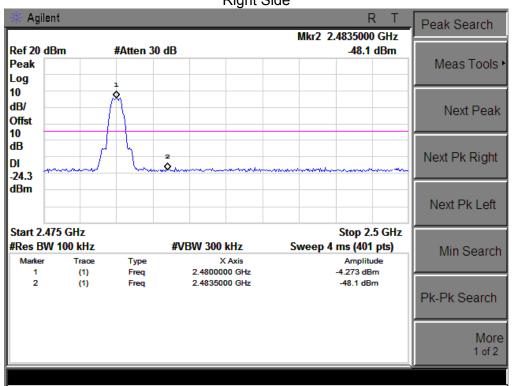
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
2390	57.63	-13.06	44.57	74	-29.43	peak	Vertical
2390	57.37	-13.06	44.31	74	-29.69	peak	Horizontal
2483.5	58.56	-12.78	45.78	74	-28.22	peak	Vertical
2483.5	58.61	-12.78	45.83	74	-28.17	peak	Horizontal

Note: Test method to see chapter 3.2. When PK value is lower than the Average value limit, average not record.









8. ANTENNA REQUIREMENT

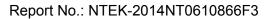
8.1 STANDARD REQUIREMENT

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.

Report No.: NTEK-2014NT0610866F3

8.2 EUT ANTENNA

The EUT antenna is FPCB antenna. It comply with the standard requirem	J i antenna is FPCB antenna. It combiv w	with the	standard	reduireme
---	--	----------	----------	-----------





9. EUT TEST PHOTO











