

# FCC RADIO TEST REPORT-BT 4.0 FCC ID:YH5-10DTB37

**Product**: W10 Tablet



Model Name: 10DTB37

Serial Model : N/A

**Report No. :** NTEK-2014NT0916399F4

# **Prepared for**

Kobian Canada Inc.

560 Denison Street, Unit 5.Markham, Ontario, L3R 2M8.Canada

# Prepared by

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# **TEST RESULT CERTIFICATION**

Applicant's name ...... Kobian Canada Inc.

Address ...... 560 Denison Street, Unit 5.Markham, Ontario, L3R 2M8.Canada

Manufacture's Name... Kobian Canada Inc.

Address ...... 560 Denison Street, Unit 5.Markham, Ontario, L3R 2M8.Canada

#### Product description

Product name ...... W10 Tablet

Model and/or type 10DTB37

Serial Model ..... N/A

Standards ..... FCC Part15.247 01 Oct. 2013

Test procedure ...... ANSI C63.4-2003 and KDB 558074: June 5, 2014

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

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Date of Test	
Date (s) of performance of tests:	16 Sep. 2014 ~25 Sep. 2014
Date of Issue	25 Sep. 2014
Test Result:	Pass

**Testing Engineer** 

Verry Grand

Denny Huang

Technical Manager

rowolu

(Brown Lu)

Authorized Signatory :

(Bill Yao)



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# **1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

	FCC Part15 (15.247) , Subpart C					
Standard Section	lest item					
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.

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

CNAS Registration No.:L5516

# **1.2 MEASUREMENT UNCERTAINTY**

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

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	W10 Tablet			
Trade Name	hipstreet			
Model Name	10DTB37			
Serial Model	N/A			
Model Difference	N/A			
	The EUT is a W10 Ta	blet		
	Operation	2402~2480MHz		
	Frequency:			
	Modulation Type: Number Of Channel	GFSK 40CH		
	Antenna	Please see Note 3.		
	Designation:	Flease see Note 5.		
Product Description	Output	-2.09 dBm(MAX)		
	Power(Conducted):			
	Antenna Gain (dBi)	1.0dBi		
	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			
	Model:Inco Duplet			
Adapter	Input: 100-240V,50/60 Hz			
	Output: 9.0V, 2000mA			
Battery	DC 3.7V ,3950mAh			
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
Chainlei	(MHz)
00	2402
01	2404
•••••	•••••
•••••	••••••
38	2478
39	2480

#### 3.

## Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
А	N/A	N/A	FPCB Antenna	N/A	1.0	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	

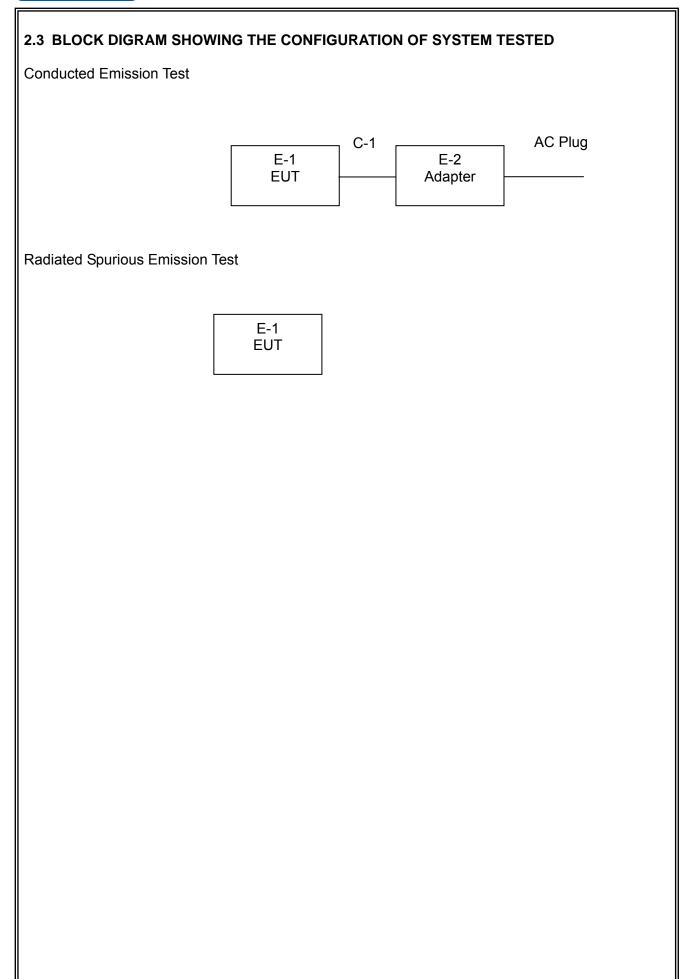
For Radiated Emission		
Final Test Mode	Description	
Mode 1	CH00	
Mode 2	CH19	
Mode 3	CH39	
Mode 4	Link Mode	

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







## 2.4 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	W10 Tablet	hipstreet	10DTB37	N/A	EUT
E-2	Adapter	N/A	Inco Duplet	N/A	

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

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in  $\[$ Length $\]$  column.

# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Ttuut	ation rest equi						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	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	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	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	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
Cond	luction Test eq	uipment					
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receive	er R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year

3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year
1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year

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## 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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

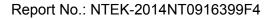
Note:

(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



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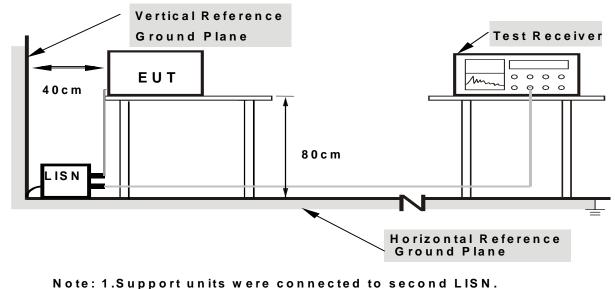
## 3.1.2 TEST PROCEDURE

- 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



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

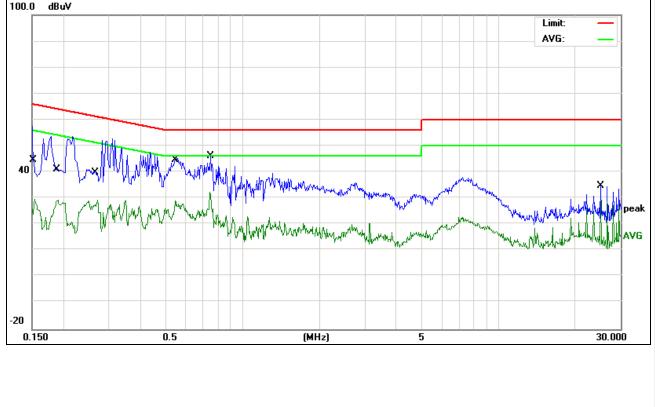
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

# 3.1.6 TEST RESULTS

	W10 Tablet		Model Na	Model Name. :		10DTB37	
Temperature :	<b>26</b> ℃			Relative Humidity :		56%	
Pressure :	1010hPa		Phase :		L		
Test Voltage :	Itage : DC 9.0V form Adapter AC 120V/60Hz			e :	Mode 4		
	1				1		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)		
0.1524	38.17	9.62	47.79	65.86	-18.07	QP	
0.1524	23.75	9.62	33.37	55.86	-22.49	AVG	
0.1748	32.88	9.56	42.44	64.72	-22.28	QP	
0.1748	22.29	9.56	31.85	54.72	-22.87	AVG	
0.2600	34.41	9.49	43.90	61.43	-17.53	QP	
0.2660	21.33	9.49	30.82	51.24	-20.42	AVG	
0.3659	29.29	9.50	38.79	58.59	-19.80	QP	
0.3659	22.66	9.50	32.16	48.59	-16.43	AVG	
0.8578	34.93	9.53	44.46	56.00	-11.54	QP	
0.8578	21.48	9.53	31.01	46.00	-14.99	AVG	
7.3379	28.88	9.67	38.55	60.00	-21.45	QP	
7.3379	13.31	9.67	22.98	50.00	-27.02	AVG	
Remark: 1. All readings are Quasi-Peak and Average values. 2. Factor = Insertion Loss + Cable Loss. 100.0 dBuV							
2. Factor = Insert			values.				
2. Factor = Insert			values.				



EUT :	W10 Tablet		Model Na	odel Name. : 10DTB37		
Temperature :	<b>26</b> ℃		Relative H	Relative Humidity : 56%		
Pressure :	1010hPa		Phase :	Phase : N		
Test Voltage :	DC 9.0V form Adapter AC 120V/60Hz		Test Mode	): 	Mode 4	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1539	48.00	9.62	57.62	65.78	-8.16	QP
0.1539	20.14	9.62	29.76	55.78	-26.02	AVG
0.1900	35.00	9.51	44.51	64.03	-19.52	QP
0.1900	19.81	9.51	29.32	54.03	-24.71	AVG
0.2700	30.10	9.49	39.59	61.12	-21.53	QP
0.2700	19.78	9.49	29.27	51.12	-21.85	AVG
0.5460	32.31	9.51	41.82	56.00	-14.18	QP
0.5460	19.62	9.51	29.13	46.00	-16.87	AVG
0.7459	31.13	9.53	40.66	56.00	-15.34	QP
0.7459	22.93	9.53	32.46	46.00	-13.54	AVG
25.1020	16.05	10.18	26.23	60.00	-33.77	QP
25.1020	19.16	10.18	29.34	50.00	-20.66	AVG
Remark: 1. All readings are 2. Factor = Insertio		•	values.			



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## 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 B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / <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

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## 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 test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested

and performed pretest to three orthogonal axis. The worst case emissions were reported

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

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Peak	1 MHz	10 Hz

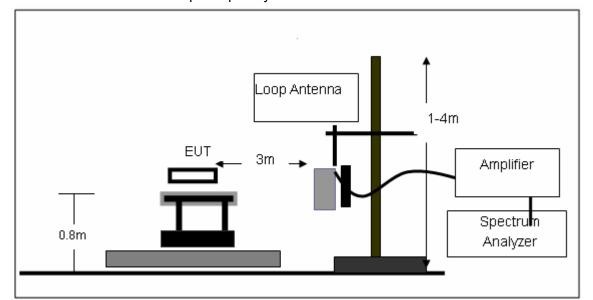
## 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

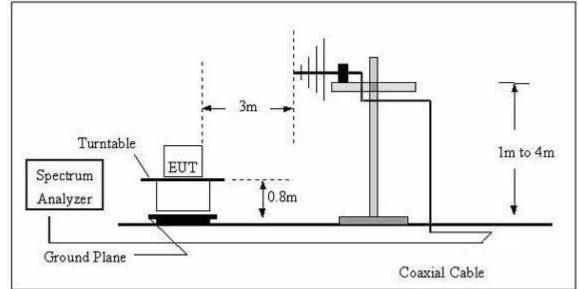


## 3.2.4 TEST SETUP

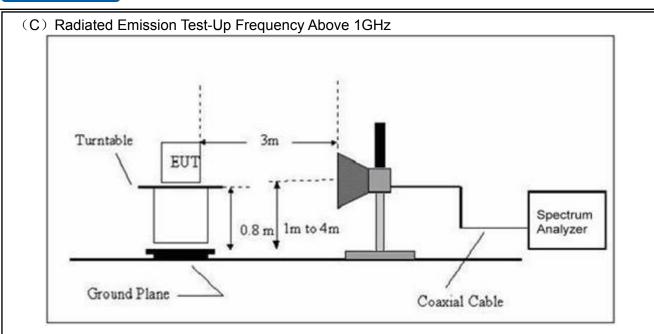
(A) Radiated Emission Test-Up Frequency Below 30MHz



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







# 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:	W10 Tablet	Model Name. :	10DTB37
Temperature:	<b>20</b> ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ	Polarization :	

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

## NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

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



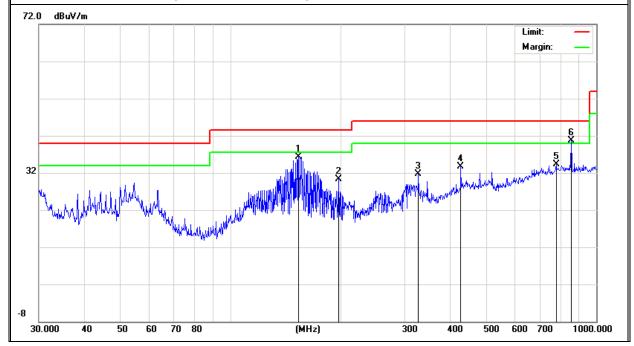
# 3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT :	W10 Tablet	Model Name :	10DTB37
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ	•	

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	153.7384	25.96	10.44	36.40	43.50	-7.10	QP
V	197.8925	19.48	10.77	30.25	43.50	-13.25	QP
V	326.7395	16.34	15.27	31.61	46.00	-14.39	QP
V	426.5210	14.77	18.84	33.61	46.00	-12.39	QP
V	776.8777	7.42	26.80	34.22	46.00	-11.78	QP
V	854.0247	13.56	27.21	40.77	46.00	-5.23	QP

#### Remark:

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





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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	172.5988	21.72	10.57	32.29	43.50	-11.21	QP
Н	196.5098	24.07	10.75	34.82	43.50	-8.68	QP
Н	249.4250	23.39	13.59	36.98	46.00	-9.02	QP
Н	300.3672	23.73	14.16	37.89	46.00	-8.11	QP
Н	345.5951	21.50	16.06	37.56	46.00	-8.44	QP
Н	854.0247	14.69	27.21	41.90	46.00	-4.10	QP
	uV/m	dingLevel+ Fa				Limit:	]
						Margin:	
32					<b>Å</b> NU <b>Å</b>		E.
	and a second second second second	Munchennerstrick			TTINAN WULL	Josepherine Markenerg Hark	
-8	40 50 6	D 70 80	(MI		300 400	500 600 700	1000.000



# 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	W10 Tablet	Model Name :	10DTB37
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ		

Low Channel (2402 MHz)-Above 1G        4804.145      59.8      -3.64      63.44      74.00      -10.56      Pk      Vertical        4804.145      43.11      -3.64      46.75      54.00      -7.25      AV      Vertical        7206.216      60.95      -0.95      61.90      74.00      -12.10      Pk      Vertical        7206.216      39.06      -0.95      40.01      54.00      -13.99      AV      Vertical        4804.084      60.18      -3.64      63.82      74.00      -10.18      Pk      Horizontal        7206.032      59.15      -0.95      60.10      74.00      -13.90      Pk      Horizontal        7206.032      59.51      -0.95      60.10      74.00      -14.09      AV      Horizontal        7206.032      38.96      -0.95      39.91      54.00      -7.74      AV      Vertical        4880.124      59.51      -3.68      63.19      74.00      -12.24      Pk      Vertical        7320.069      61.78      -0.82      61.76	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	Polar (H/V)
1000      1000 <th< td=""><td colspan="8"></td></th<>								
Total      Total <th< td=""><td>4804.145</td><td>59.8</td><td>-3.64</td><td>63.44</td><td>74.00</td><td>-10.56</td><td>Pk</td><td>Vertical</td></th<>	4804.145	59.8	-3.64	63.44	74.00	-10.56	Pk	Vertical
T206_216      39.06      -0.95      40.01      54.00      -13.99      AV      Vertical        4804.084      60.18      -3.64      63.82      74.00      -10.18      Pk      Horizontal        4804.084      42.01      -3.64      45.65      54.00      -8.35      AV      Horizontal        7206.032      59.15      -0.95      60.10      74.00      -13.90      Pk      Horizontal        7206.032      38.96      -0.95      39.91      54.00      -14.09      AV      Horizontal        7206.032      38.96      -0.95      39.91      54.00      -14.09      AV      Horizontal        7206.032      38.96      -0.95      39.91      54.00      -14.09      AV      Horizontal        7206.032      59.51      -3.68      63.19      74.00      -10.81      Pk      Vertical        4880.124      42.58      -3.68      46.26      54.00      -7.74      AV      Vertical        7320.069      41.78      -0.82      41.60      54.00      -7.74      AV	4804.145	43.11	-3.64	46.75	54.00	-7.25	AV	Vertical
1801      1802 <th< td=""><td>7206.216</td><td>60.95</td><td>-0.95</td><td>61.90</td><td>74.00</td><td>-12.10</td><td>Pk</td><td>Vertical</td></th<>	7206.216	60.95	-0.95	61.90	74.00	-12.10	Pk	Vertical
4804.084      42.01      -3.64      45.65      54.00      -8.35      AV      Horizontal        7206.032      59.15      -0.95      60.10      74.00      -13.90      Pk      Horizontal        7206.032      38.96      -0.95      39.91      54.00      -14.09      AV      Horizontal        Mid Channel (2440 MHz)-Above 1G      -      -      4880.124      59.51      -3.68      63.19      74.00      -10.81      Pk      Vertical        4880.124      42.58      -3.68      46.26      54.00      -7.74      AV      Vertical        7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      41.78      -0.82      42.60      54.00      -7.74      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148      60.88      -0.82	7206.216	39.06	-0.95	40.01	54.00	-13.99	AV	Vertical
7206.032      59.15      -0.95      60.10      74.00      -13.90      Pk      Horizontal        7206.032      38.96      -0.95      39.91      54.00      -14.09      AV      Horizontal        Mid Channel (2440 MHz)-Above 1G      -10.81      Pk      Vertical        4880.124      59.51      -3.68      63.19      74.00      -10.81      Pk      Vertical        7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      41.78      -0.82      42.60      54.00      -7.74      AV      Vertical        7320.069      41.78      -0.82      42.60      54.00      -11.40      AV      Vertical        7320.069      41.78      -0.82      42.60      54.00      -7.74      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148	4804.084	60.18	-3.64	63.82	74.00	-10.18	Pk	Horizontal
7206.032      38.96      -0.95      39.91      54.00      -14.09      AV      Horizontal        4880.124      59.51      -3.68      63.19      74.00      -10.81      Pk      Vertical        4880.124      42.58      -3.68      63.19      74.00      -10.81      Pk      Vertical        7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      41.78      -0.82      42.60      54.00      -7.74      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      42.58      -3.68      46.26      54.00      -7.74      AV      Horizontal        7320.148      60.88      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -9.54      Pk	4804.084	42.01	-3.64	45.65	54.00	-8.35	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G        4880.124      59.51      -3.68      63.19      74.00      -10.81      Pk      Vertical        7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      41.78      -0.82      42.60      54.00      -11.40      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      42.58      -3.68      64.13      74.00      -9.87      Pk      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -9.54      Pk      Vertical        4960.236      60.87      -3.59      64.46	7206.032	59.15	-0.95	60.10	74.00	-13.90	Pk	Horizontal
4880.124      59.51      -3.68      63.19      74.00      -10.81      Pk      Vertical        4880.124      42.58      -3.68      46.26      54.00      -7.74      AV      Vertical        7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      41.78      -0.82      42.60      54.00      -11.40      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      42.58      -3.68      64.13      74.00      -9.87      Pk      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -7.74      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -9.54      Pk      Vertical        4960.236      60.87      -3.59      64.46      74.00      -9.54      Pk	7206.032	38.96	-0.95	39.91	54.00	-14.09	AV	Horizontal
10001121      10100      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      111000      1110000      1110000      1110000      1110000      1110000      11100000000      1110000000000000000000000000000000000			Mid Cha	nnel (2440 MHz	)-Above 1G			
7320.069      60.94      -0.82      61.76      74.00      -12.24      Pk      Vertical        7320.069      41.78      -0.82      42.60      54.00      -11.40      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      42.58      -3.68      64.13      74.00      -9.87      Pk      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148      60.88      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -9.54      Pk      Vertical        4960.236      60.87      -3.59      64.46      74.00      -9.54      Pk      Vertical        4960.236      42.71      -3.59      46.30      54.00      -7.70      AV	4880.124	59.51	-3.68	63.19	74.00	-10.81	Pk	Vertical
7320.069      41.78      -0.82      42.60      54.00      -11.40      AV      Vertical        4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      42.58      -3.68      46.26      54.00      -7.74      AV      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148      60.88      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        74960.236      60.87      -3.59      64.46      74.00      -9.54      Pk      Vertical        4960.236      42.71      -3.59      46.30      54.00      -7.70      AV      Vertical        7440.047      59.34      -0.68      60.02      74.00      -9.76      AV	4880.124	42.58	-3.68	46.26	54.00	-7.74	AV	Vertical
4880.204      60.45      -3.68      64.13      74.00      -9.87      Pk      Horizontal        4880.204      42.58      -3.68      64.13      74.00      -9.87      Pk      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148      60.88      -0.82      41.87      54.00      -12.13      AV      Horizontal        High Channel (2480MHz)- Above 1G      Horizontal      High Channel (2480MHz)- Above 1G      Vertical        4960.236      60.87      -3.59      64.46      74.00      -9.54      Pk      Vertical        7440.047      59.34      -0.68      60.02      74.00      -13.98      Pk      Vertical        7440.047      43.56      -0.68      44.24      54.00      -9.76      AV      Vertical        4960.214      60.7      -3.59      64.29      74.00      -9.71      Pk      Horizontal        4960.214      60.7      -3.59      64.29      74.00      -9.71      Pk      Horizontal	7320.069	60.94	-0.82	61.76	74.00	-12.24	Pk	Vertical
4880.204      42.58      -3.68      46.26      54.00      -7.74      AV      Horizontal        7320.148      60.88      -0.82      61.70      74.00      -12.30      Pk      Horizontal        7320.148      60.88      -0.82      41.87      54.00      -12.13      AV      Horizontal        7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        High Channel (2480MHz)- Above 1G      Horizontal      -3.59      64.46      74.00      -9.54      Pk      Vertical        4960.236      60.87      -3.59      64.46      74.00      -9.54      Pk      Vertical        7440.047      59.34      -0.68      60.02      74.00      -13.98      Pk      Vertical        7440.047      43.56      -0.68      44.24      54.00      -9.76      AV      Vertical        4960.214      60.7      -3.59      64.29      74.00      -9.71      Pk      Horizontal        4960.214      62.21      -0.68      62.89      74.00      -7.55 <td>7320.069</td> <td>41.78</td> <td>-0.82</td> <td>42.60</td> <td>54.00</td> <td>-11.40</td> <td>AV</td> <td>Vertical</td>	7320.069	41.78	-0.82	42.60	54.00	-11.40	AV	Vertical
10001201      11100      10100      10120      01000      1111      1111      1111      1111	4880.204	60.45	-3.68	64.13	74.00	-9.87	Pk	Horizontal
7320.148      41.05      -0.82      41.87      54.00      -12.13      AV      Horizontal        High Channel (2480MHz)- Above 1G      -      1      -      -      1      -      1      -      0      -      -      1      -      1      -      0      -      0      -      1      -      1      -      3      59      64.46      74.00      -      9      54      Pk      Vertical        4960.236      42.71      -3.59      46.30      54.00      -7.70      AV      Vertical        7440.047      59.34      -0.68      60.02      74.00      -9.76      AV      Vertical        4960.214      60.7      -3.59      64.29      74.00      -9.71      Pk      Horizontal        7440.1	4880.204	42.58	-3.68	46.26	54.00	-7.74	AV	Horizontal
High Channel (2480MHz)- Above 1G      4960.236    60.87    -3.59    64.46    74.00    -9.54    Pk    Vertical      4960.236    42.71    -3.59    64.46    74.00    -9.54    Pk    Vertical      4960.236    42.71    -3.59    64.46    74.00    -9.54    Pk    Vertical      7440.047    59.34    -0.68    60.02    74.00    -13.98    Pk    Vertical      7440.047    43.56    -0.68    44.24    54.00    -9.76    AV    Vertical      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    62.21    -0.68    62.89    74.00    -9.71    Pk    Horizontal      4960.214    42.86    -3.59    46.45    54.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal      Remark:	7320.148	60.88	-0.82	61.70	74.00	-12.30	Pk	Horizontal
4960.236    60.87    -3.59    64.46    74.00    -9.54    Pk    Vertical      4960.236    42.71    -3.59    46.30    54.00    -7.70    AV    Vertical      7440.047    59.34    -0.68    60.02    74.00    -13.98    Pk    Vertical      7440.047    43.56    -0.68    44.24    54.00    -9.76    AV    Vertical      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    62.21    -0.68    62.89    74.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal      Remark:    Kemark:    Kemark    Kemark    Kemark    Kemark    Kemark    Kemark    Kemark	7320.148	41.05	-0.82	41.87	54.00	-12.13	AV	Horizontal
4960.236    42.71    -3.59    46.30    54.00    -7.70    AV    Vertical      7440.047    59.34    -0.68    60.02    74.00    -13.98    Pk    Vertical      7440.047    43.56    -0.68    44.24    54.00    -9.76    AV    Vertical      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    62.21    -0.68    62.89    74.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal      Remark:			High Cha	nnel (2480MHz	)- Above 10	6	-	
7440.047    59.34    -0.68    60.02    74.00    -13.98    Pk    Vertical      7440.047    43.56    -0.68    44.24    54.00    -9.76    AV    Vertical      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    42.86    -3.59    46.45    54.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal	4960.236	60.87	-3.59	64.46	74.00	-9.54	Pk	Vertical
7440.047    43.56    -0.68    44.24    54.00    -9.76    AV    Vertical      4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    42.86    -3.59    46.45    54.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal	4960.236	42.71	-3.59	46.30	54.00	-7.70	AV	Vertical
4960.214    60.7    -3.59    64.29    74.00    -9.71    Pk    Horizontal      4960.214    42.86    -3.59    46.45    54.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal      Remark:	7440.047	59.34	-0.68	60.02	74.00	-13.98	Pk	Vertical
4960.214    42.86    -3.59    46.45    54.00    -7.55    AV    Horizontal      7440.122    62.21    -0.68    62.89    74.00    -11.11    Pk    Horizontal      7440.122    41.07    -0.68    41.75    54.00    -12.25    AV    Horizontal      Remark:	7440.047	43.56	-0.68	44.24	54.00	-9.76	AV	Vertical
7440.122      62.21      -0.68      62.89      74.00      -11.11      Pk      Horizontal        7440.122      41.07      -0.68      41.75      54.00      -12.25      AV      Horizontal        Remark:	4960.214	60.7	-3.59	64.29	74.00	-9.71	Pk	Horizontal
7440.122      41.07      -0.68      41.75      54.00      -12.25      AV      Horizontal        Remark:	4960.214	42.86	-3.59	46.45	54.00	-7.55	AV	Horizontal
Remark:	7440.122	62.21	-0.68	62.89	74.00	-11.11	Pk	Horizontal
	7440.122 41.07 -0.68 41.75 54.00 -12.25 AV Horizontal							
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit	<b>Remark:</b> Absolute Leve	el= Readingl e	vel+ Facto	or Margin= Abs	olute l evel	- Limit		

# 4. POWER SPECTRAL DENSITY TEST

## 4.1 APPLIED PROCEDURES / LIMIT

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

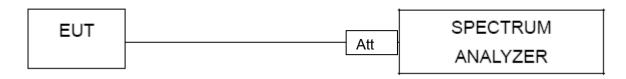
## 4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 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

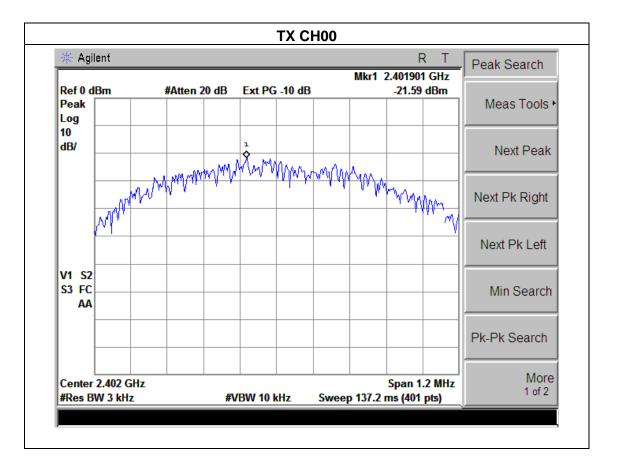
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



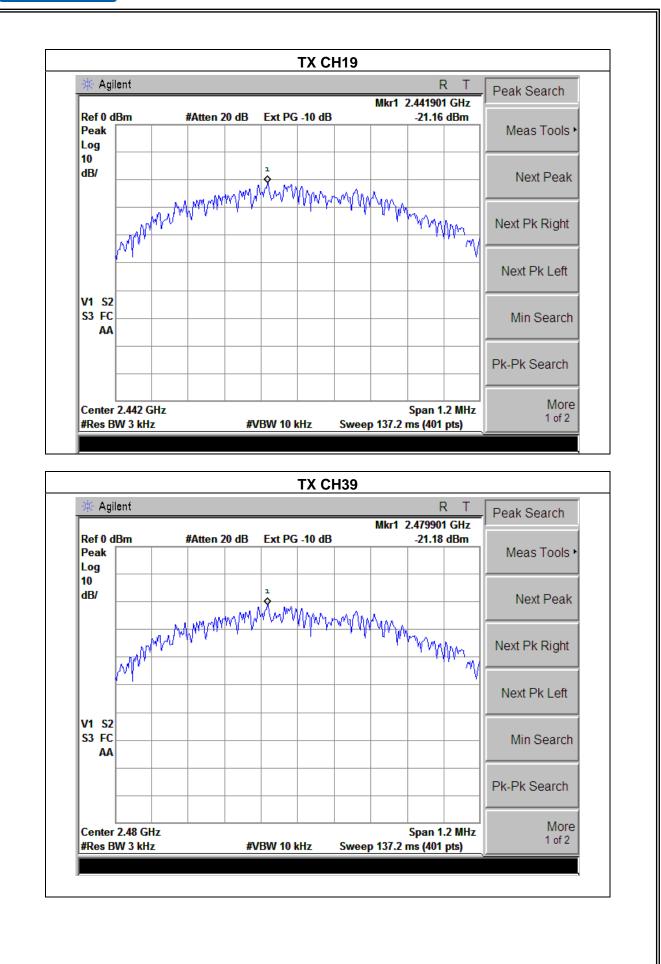
#### 4.1.5 TEST RESULTS

EUT :	W10 Tablet	Model Name :	10DTB37
Temperature :	<b>25</b> ℃	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-21.59	8	PASS
2440 MHz	-21.16	8	PASS
2480 MHz	-21.18	8	PASS







# 5. BANDWIDTH TEST

# 5.1 APPLIED PROCEDURES / LIMIT

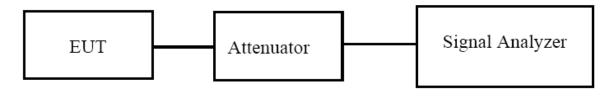
	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS			

# 5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW)  $\ge$  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

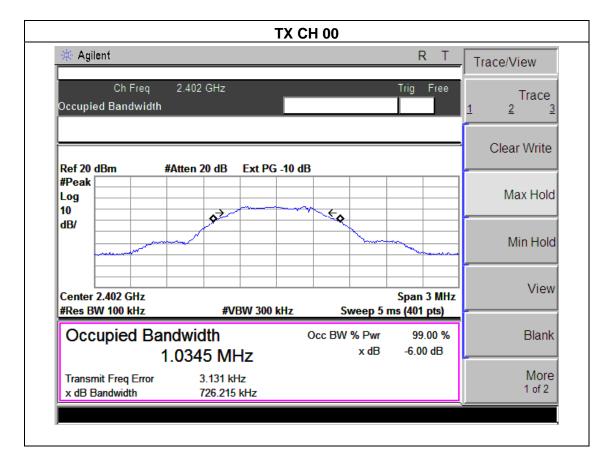
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## 5.1.3 TEST RESULTS

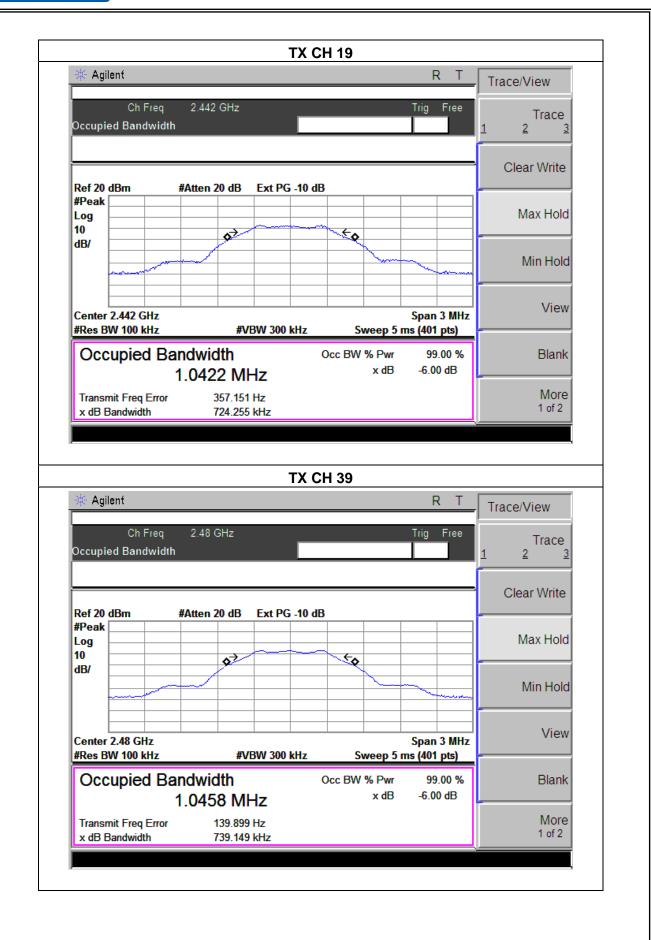
		1	
EUT :	W10 Tablet	Model Name :	10DTB37
Temperature :	<b>25</b> ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	726.215	500	Pass
Middle	2440	724.255	500	Pass
High	2480	739.149	500	Pass





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# 6. PEAK OUTPUT POWER TEST

## 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section  Test Item  Limit  Frequency Range (MHz)  Frequency Range				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 METER			
	EUT	POWER	METER

## 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 :	W10 Tablet	Model Name :	10DTB37
Temperature :	<b>25</b> ℃	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode		

Test Channe	Frequency Conducted Output Power(PK)		LIMIT	
	(MHz)	(dBm)	dBm	
CH00	2402	-2.12	30	
CH19	2440	-2.09	30	
CH39	2480	-2.11	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)).

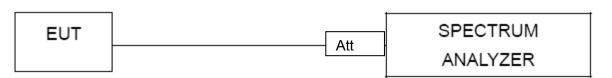
## **TEST PROCEDURE**

- 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 :	W10 Tablet	Model Name :	10DTB37
Temperature :	<b>25</b> ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
Left-band	42.13	20	Pass
Right-band	41.79	20	Pass

# Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
2390	57.87	-13.06	44.81	74	-29.19	peak	Vertical
2390	57.61	-13.06	44.55	74	-29.45	peak	Horizontal
2483.5	58.84	-12.78	46.06	74	-27.94	peak	Vertical
2483.5	58.85	-12.78	46.07	74	-27.93	peak	Horizontal

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

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			Left S	Side		
🔆 Agilen	it				RT	Peak Search
Ref 20 dB Peak Log	lm	#Atten 20 df	B Ext PG -10 dB	Mkr	2 2.4000 GHz -48.93 dBm	Meas Tools •
10 dB/						Next Peak
DI -26.9	stronger and					Next Pk Right
dBm						Next Pk Left
Start 2.31 #Res BW Marker	100 kHz Trace	Туре	#VBW 300 kHz X Axis	Sweep 9.842 r	Amplitude	Min Search
1 2	(1) (1)	Freq Freq	2.4019 GHz 2.4000 GHz		-6.801 dBm -48.93 dBm	Pk-Pk Search
						More 1 of 2

**Right Side** 





# 8. ANTENNA REQUIREMENT

## 8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

## 8.2 EUT ANTENNA

The EUT antenna is FPCB antenna. It comply with the standard requirement.



# 9. EUT TEST PHOTO



