

# RADIO TEST REPORT FCC ID: 2AAWC-1070TPC

Product: SupraPad Tablet PC

Trade Name: iview

Model No.: 1070TPC

Serial Model: N/A

Report No.: NTEK-2016NT08058101F1

**Issue Date:** Sep 07, 2016

# Prepared for

Wiltronic Corporation
13939 Central Ave, Chino, CA, United States, 91710

# Prepared by

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



# **TABLE OF CONTENTS**

1 T	EST RESULT CERTIFICATION	3
2 S	UMMARY OF TEST RESULTS	4
3 F	ACILITIES AND ACCREDITATIONS	5
3.1	FACILITIES	5
3.2	LABORATORY ACCREDITATIONS AND LISTINGS	
3.3	MEASUREMENT UNCERTAINTY	5
4 G	GENERAL DESCRIPTION OF EUT	6
5 D	DESCRIPTION OF TEST MODES	8
6 S	ETUP OF EQUIPMENT UNDER TEST	9
6.1	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
6.2	SUPPORT EQUIPMENTEQUIPMENTS LIST FOR ALL TEST ITEMS	10
6.3	EQUIPMENTS LIST FOR ALL TEST ITEMS	11
7 T	EST REQUIREMENTS	12
7.1	CONDUCTED EMISSIONS TEST	12
7.2	RADIATED SPURIOUS EMISSION	17
7.3	6DB BANDWIDTH	26
7.4	DUTY CYCLE	29
7.5	PEAK OUTPUT POWER	31
7.6	POWER SPECTRAL DENSITY	
7.7	CONDUCTED BAND EDGE MEASUREMENT	38
7.8	ANTENNA APPLICATION	40



# 1 TEST RESULT CERTIFICATION

Applicant's name:	Wiltronic Corporation	
Address:	13939 Central Ave, Chino, CA, United States, 91710	
Manufacture's Name:	Wiltronic Corporation	
Address:	13939 Central Ave, Chino, CA, United States, 91710	
Product description		
Product name:	SupraPad Tablet PC	
Model and/or type reference:	1070TPC	
Serial Model:	N/A	

## Measurement Procedure Used:

APPLICABLE STANDARDS				
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT			
FCC 47 CFR Part 2, Subpart J:2015				
FCC 47 CFR Part 15, Subpart C:2015				
KDB 174176 D01 Line Conducted FAQ v01r01	Complied			
ANSI C63.10-2013				
FCC KDB 558074 D01 DTS Meas Guidance v03r05				

This device described above has been tested by NTEK Testing Technology Co., Ltd., 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.

This report shall not be reproduced except in full, without the written approval of NTEK Testing Technology Co., Ltd., this document may be altered or revised by NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

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

Date of Test	:	05 Aug. 2016 ~ 07 Sep, 2016
Testing Engineer	:	Eileen Wu.
		(Eileen Liu)
Technical Manager	:	Jason chen
_		(Jason Chen)
		Sam. Chen
Authorized Signatory	:	
		(Sam Chen)



# 2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C						
Standard Section Test Item Verdict 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				

# Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 3 FACILITIES AND ACCREDITATIONS

#### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

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

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2014.09.04

The certificate is valid until 2017.09.03

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.

Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1.

Accredited by FCC, September 6, 2013

The Certificate Registration Number is 238937.

Name of Firm : NTEK Testing Technology Co., Ltd

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen P.R. China.

# 3.3 MEASUREMENT UNCERTAINTY

The reported 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 %.

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%	



# 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment SupraPad Tablet PC					
Trade Name iview					
FCC ID 2AAWC-1070TPC					
Model No.	1070TPC				
Serial Model	N/A				
Model Difference	N/A				
Operating Frequency	2402MHz~2480MHz				
Modulation	GFSK				
Number of Channels 40 Channels					
Antenna Type	FPCB Antenna				
Antenna Gain	1 dBi				
	☑DC supply: DC 3.7V/6000mAh from Li-ion Battery or DC 5V from USB Port.				
Power supply					
HW Version	N/A				
SW Version					

Note: 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.



# **Revision History**

Report No.	Version	Description	Issued Date
NTEK-2016NT08058101F1	Rev.01	Initial issue of report	Aug 15, 2016
NTEK-2016NT08058101F1	Rev.02	Update issue of report	Sep 07, 2016



## 5 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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
	****
19	2440
20	2442
	****
38	2478
39	2480

Note: fc=2402MHz+k×2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases					
Test Item	Data Rate/ Modulation				
restitem	Bluetooth 4.0_LE / GFSK				
AC Conducted Emission	Mode 4: normal link mode				
	Mode 1: Bluetooth Tx Ch00_2402MHz_1Mbps				
Radiated Test	Mode 2: Bluetooth Tx Ch19_2440MHz_1Mbps				
Cases	Mode 3: Bluetooth Tx Ch39_2480MHz_1Mbps				
	Mode 4: normal link mode				
Conducted Test	Mode 1: Bluetooth Tx Ch00_2402MHz_1Mbps				
Conducted Test Cases	Mode 2: Bluetooth Tx Ch19_2440MHz_1Mbps				
Cases	Mode 3: Bluetooth Tx Ch39_2480MHz_1Mbps				

- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. AC power line Conducted Emission was tested under maximum output power.
- 3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.



# **6 SETUP OF EQUIPMENT UNDER TEST** 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For AC Conducted Emission Mode EUT Earphone -Adapter For Radiated Test Cases EUT For Conducted Test Cases Measurement Attenuator -EUT Instrument



# **6.2 SUPPORT EQUIPMENT**

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	Mfr/Brand	Model/Type No.	FCC ID	Note
E-1	SupraPad Tablet PC	IVIEW	1070TPC	2AAWC-1070TPC	EUT
E-2	Adapter	N/A	JK050200-S04USA	N/A	Peripherals
E-3	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Earphone	NO	NO	0.8m
C-3	RF Cable	NO	NO	0.5m

- (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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



# 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Nauia	lation rest equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY46186938	2015.11.19	2016.11.18	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-1018 0	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.07	2017.06.06	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

	zenadetten reet equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.07	2017.06.06	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.07	2017.06.06	1 year
7	Test Cable	N/A	C01	N/A	2016.06.07	2017.06.06	1 year
8	Test Cable	N/A	C02	N/A	2016.06.07	2017.06.06	1 year
9	Test Cable	N/A	C03	N/A	2016.06.07	2017.06.06	1 year
1	Attenuation	MCE	24-10-34	BN9258	2016.06.07	2017.06.06	1 year

Note: Each piece of equipment is scheduled for calibration once a year.



#### 7 TEST REQUIREMENTS

#### 7.1 CONDUCTED EMISSIONS TEST

#### 7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

#### 7.1.2 Conformance Limit

Fraguanov(MHz)	Conducted	Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

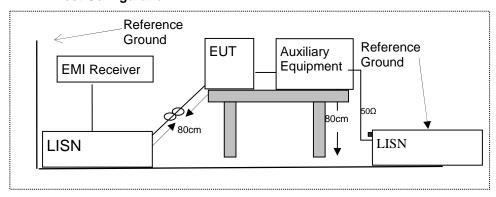
Note: 1. \*Decreases with the logarithm of the frequency

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

# 7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

## 7.1.4 Test Configuration



#### 7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

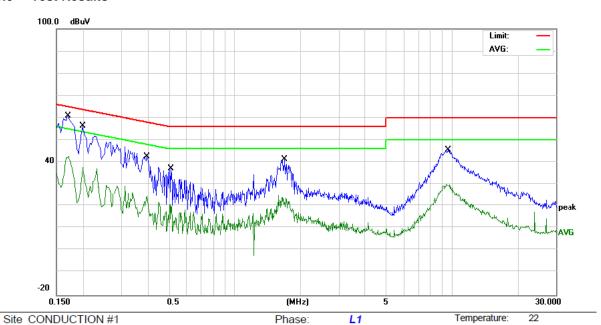
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Humidity:

51 %







Limit: FCC Part 15B\_(0.15-30MHz) \_Main\_QP

Mode: NORMAL LINK

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	50.86	10.12	60.98	64.96	-3.98	QP	
2		0.1700	32.56	10.12	42.68	54.96	-12.28	AVG	
3		0.1980	46.35	10.13	56.48	63.69	-7.21	QP	
4		0.1980	27.66	10.13	37.79	53.69	-15.90	AVG	
5		0.3940	32.57	10.05	42.62	57.98	-15.36	QP	
6		0.3940	14.42	10.05	24.47	47.98	-23.51	AVG	
7		0.5100	27.24	9.81	37.05	56.00	-18.95	QP	
8		0.5100	10.77	9.81	20.58	46.00	-25.42	AVG	
9		1.6978	31.42	9.80	41.22	56.00	-14.78	QP	
10		1.6978	15.07	9.80	24.87	46.00	-21.13	AVG	
11		9.5616	35.55	9.88	45.43	60.00	-14.57	QP	
12		9.5616	20.17	9.88	30.05	50.00	-19.95	AVG	

Power:

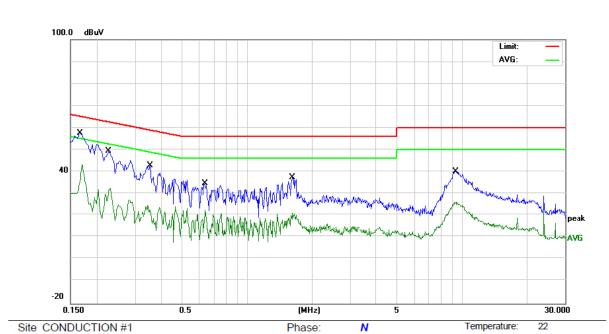
AC 120V/60Hz

<sup>\*:</sup>Maximum data x:Over limit !:over margin

Humidity:

51 %





Power:

AC 120V/60Hz

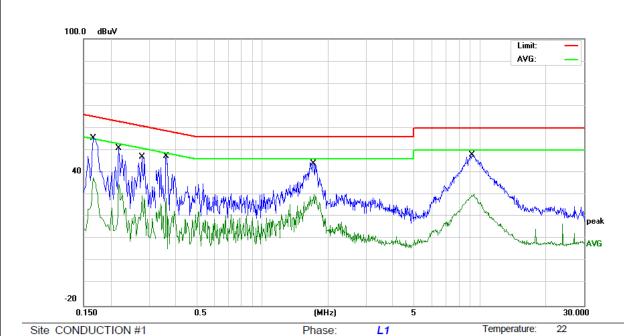
Limit: FCC Part 15B\_(0.15-30MHz) \_Main\_QP

Mode: NORMAL LINK

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBuV	dBu∨	dB	Detector	Comment
1 *	0.1660	47.60	10.06	57.66	65.15	-7.49	QP	
2	0.1660	33.46	10.06	43.52	55.15	-11.63	AVG	
3	0.2260	39.25	10.05	49.30	62.59	-13.29	QP	
4	0.2260	22.54	10.05	32.59	52.59	-20.00	AVG	
5	0.3537	32.65	10.09	42.74	58.87	-16.13	QP	
6	0.3537	14.53	10.09	24.62	48.87	-24.25	AVG	
7	0.6340	25.05	9.82	34.87	56.00	-21.13	QP	
8	0.6340	12.52	9.82	22.34	46.00	-23.66	AVG	
9	1.6180	27.65	9.83	37.48	56.00	-18.52	QP	
10	1.6180	10.99	9.83	20.82	46.00	-25.18	AVG	
11	9.3099	30.44	9.86	40.30	60.00	-19.70	QP	
12	9.3099	16.44	9.86	26.30	50.00	-23.70	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin





Limit: FCC Part 15B\_(0.15-30MHz) \_Main\_QP

AC 230V/50Hz Power:

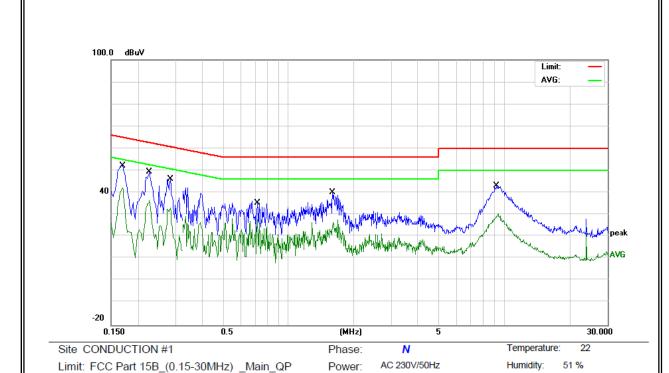
Humidity: 51 %

Mode: NORMAL LINK

MHz         dBuV         dB         dBuV         dB uV         dB uV         Detector under	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
2       0.1660       27.56       10.12       37.68       55.15       -17.47       AVG         3       0.2179       40.76       10.13       50.89       62.89       -12.00       QP         4       0.2179       24.94       10.13       35.07       52.89       -17.82       AVG         5       0.2779       36.92       10.14       47.06       60.88       -13.82       QP         6       0.2779       19.43       10.14       29.57       50.88       -21.31       AVG         7       0.3619       37.12       10.08       47.20       58.68       -11.48       QP         8       0.3619       18.25       10.08       28.33       48.68       -20.35       AVG         9       1.7099       34.26       9.79       44.05       56.00       -11.95       QP         10       1.7099       20.51       9.79       30.30       46.00       -15.70       AVG         11       9.2499       38.10       9.87       47.97       60.00       -12.03       QP			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
3     0.2179     40.76     10.13     50.89     62.89 -12.00     QP       4     0.2179     24.94     10.13     35.07     52.89 -17.82     AVG       5     0.2779     36.92     10.14     47.06     60.88 -13.82     QP       6     0.2779     19.43     10.14     29.57     50.88 -21.31     AVG       7     0.3619     37.12     10.08     47.20     58.68 -11.48     QP       8     0.3619     18.25     10.08     28.33     48.68 -20.35     AVG       9     1.7099     34.26     9.79     44.05     56.00 -11.95     QP       10     1.7099     20.51     9.79     30.30     46.00 -15.70     AVG       11     9.2499     38.10     9.87     47.97     60.00 -12.03     QP	1	*	0.1660	45.21	10.12	55.33	65.15	-9.82	QP	
4       0.2179       24.94       10.13       35.07       52.89 -17.82       AVG         5       0.2779       36.92       10.14       47.06       60.88 -13.82       QP         6       0.2779       19.43       10.14       29.57       50.88 -21.31       AVG         7       0.3619       37.12       10.08       47.20       58.68 -11.48       QP         8       0.3619       18.25       10.08       28.33       48.68 -20.35       AVG         9       1.7099       34.26       9.79       44.05       56.00 -11.95       QP         10       1.7099       20.51       9.79       30.30       46.00 -15.70       AVG         11       9.2499       38.10       9.87       47.97       60.00 -12.03       QP	2		0.1660	27.56	10.12	37.68	55.15	-17.47	AVG	
5     0.2779     36.92     10.14     47.06     60.88 -13.82     QP       6     0.2779     19.43     10.14     29.57     50.88 -21.31     AVG       7     0.3619     37.12     10.08     47.20     58.68 -11.48     QP       8     0.3619     18.25     10.08     28.33     48.68 -20.35     AVG       9     1.7099     34.26     9.79     44.05     56.00 -11.95     QP       10     1.7099     20.51     9.79     30.30     46.00 -15.70     AVG       11     9.2499     38.10     9.87     47.97     60.00 -12.03     QP	3		0.2179	40.76	10.13	50.89	62.89	-12.00	QP	
6 0.2779 19.43 10.14 29.57 50.88 -21.31 AVG 7 0.3619 37.12 10.08 47.20 58.68 -11.48 QP 8 0.3619 18.25 10.08 28.33 48.68 -20.35 AVG 9 1.7099 34.26 9.79 44.05 56.00 -11.95 QP 10 1.7099 20.51 9.79 30.30 46.00 -15.70 AVG 11 9.2499 38.10 9.87 47.97 60.00 -12.03 QP	4		0.2179	24.94	10.13	35.07	52.89	-17.82	AVG	
7     0.3619     37.12     10.08     47.20     58.68 -11.48     QP       8     0.3619     18.25     10.08     28.33     48.68 -20.35     AVG       9     1.7099     34.26     9.79     44.05     56.00 -11.95     QP       10     1.7099     20.51     9.79     30.30     46.00 -15.70     AVG       11     9.2499     38.10     9.87     47.97     60.00 -12.03     QP	5		0.2779	36.92	10.14	47.06	60.88	-13.82	QP	
8 0.3619 18.25 10.08 28.33 48.68 -20.35 AVG 9 1.7099 34.26 9.79 44.05 56.00 -11.95 QP 10 1.7099 20.51 9.79 30.30 46.00 -15.70 AVG 11 9.2499 38.10 9.87 47.97 60.00 -12.03 QP	6		0.2779	19.43	10.14	29.57	50.88	-21.31	AVG	
9 1.7099 34.26 9.79 44.05 56.00 -11.95 QP 10 1.7099 20.51 9.79 30.30 46.00 -15.70 AVG 11 9.2499 38.10 9.87 47.97 60.00 -12.03 QP	7		0.3619	37.12	10.08	47.20	58.68	-11.48	QP	
10 1.7099 20.51 9.79 30.30 46.00 -15.70 AVG 11 9.2499 38.10 9.87 47.97 60.00 -12.03 QP	8		0.3619	18.25	10.08	28.33	48.68	-20.35	AVG	
11 9.2499 38.10 9.87 47.97 60.00 -12.03 QP	9		1.7099	34.26	9.79	44.05	56.00	-11.95	QP	
	10		1.7099	20.51	9.79	30.30	46.00	-15.70	AVG	
12 9.2499 20.62 9.87 30.49 50.00 -19.51 AVG	11		9.2499	38.10	9.87	47.97	60.00	-12.03	QP	
	12		9.2499	20.62	9.87	30.49	50.00	-19.51	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin





Mode: NORMAL LINK

1 *	,	MHz	dBuV		ment	Limit	Over		
1 *	ì		ubuv	dB	dBu∀	dBuV	dB	Detector	Comment
		0.1700	42.16	10.06	52.22	64.96	-12.74	QP	
2		0.1700	32.04	10.06	42.10	54.96	-12.86	AVG	
3		0.2260	39.42	10.05	49.47	62.59	-13.12	QP	
4		0.2260	26.35	10.05	36.40	52.59	-16.19	AVG	
5		0.2818	36.14	10.11	46.25	60.76	-14.51	QP	
6		0.2818	23.12	10.11	33.23	50.76	-17.53	AVG	
7		0.7178	26.53	9.82	36.35	56.00	-19.65	QP	
8		0.7178	18.13	9.82	27.95	46.00	-18.05	AVG	
9		1.5980	30.41	9.83	40.24	56.00	-15.76	QP	
10		1.5980	18.02	9.83	27.85	46.00	-18.15	AVG	
11		9.2417	33.22	9.84	43.06	60.00	-16.94	QP	
12		9.2417	20.59	9.84	30.43	50.00	-19.57	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin



## 7.2 RADIATED SPURIOUS EMISSION

#### 7.2.1 **Applicable Standard**

According to FCC Part 15.247(d) and 15.209 and DA 00-705

#### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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 Part15.205, Restricted bands

According to FCC Part 15.205, Restricted barros						
MHz	MHz	MHz	GHz			
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15			
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46			
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75			
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5			
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2			
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5			
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7			
6.26775-6.26825	123-138	2200-2300	14.47-14.5			
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2			
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4			
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12			
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0			
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8			
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5			
12.57675-12.57725	322-335.4	3600-4400	(2)			
13.36-13.41						

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

100	ilicied balla specified off	13.203(a), inen ine 13.208	o(a) ilitili ili ilie iable below i	ias to be followed.
	Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
	0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
	0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
	1.705~30.0	30	29.5	30
	30-88	100	40	3
	88-216	150	43.5	3
	216-960	200	46	3
	Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV	/m) (at 3M)
Frequency(MH2)	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

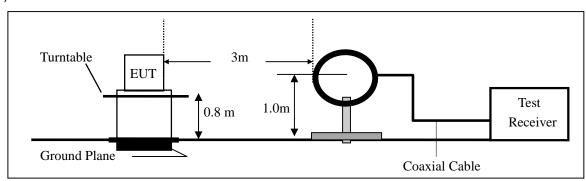
#### 7.2.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

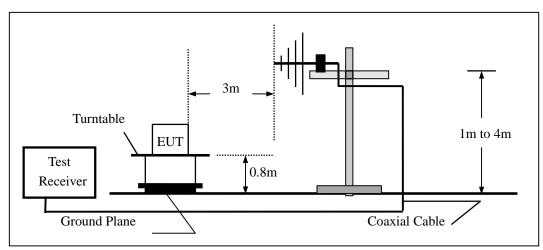


# 7.2.4 Test Configuration

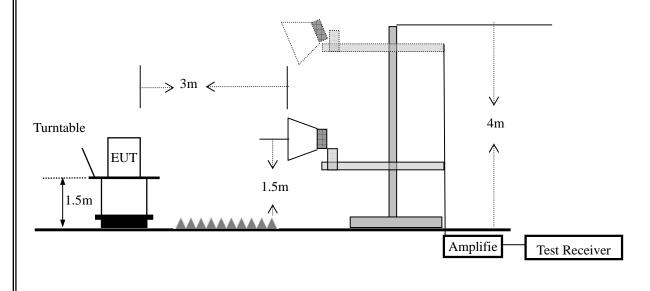
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz





#### 7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

	3 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 3 - 1	
	Spectrum Parameter	Setting
	Attenuation	Auto
	Start Frequency	1000 MHz
	Stop Frequency	10th carrier harmonic
F	RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- 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 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. 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 for below 1GHz and 1.5m for above 1GHz; 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	
Above 1000	Peak	1 MHz	1 MHz	
Above 1000	Average	1 MHz	10 Hz	

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



# 7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Eileen Liu

Freq.	Ant.Pol.	Emission L	evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	PK AV ´		AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor

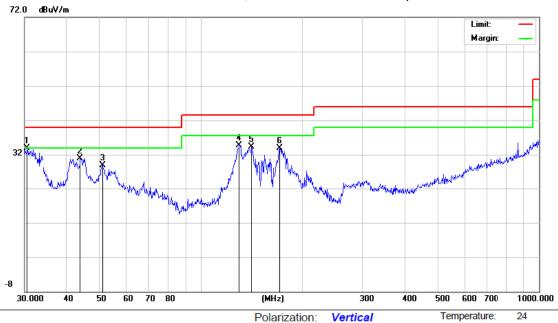
Humidity:

50 %





All the modulation modes have been tested, and the worst result was report as below:



Site
Limit: FCC\_PART15\_B\_03m\_QP

Mode: NORMAL LINK

Note:

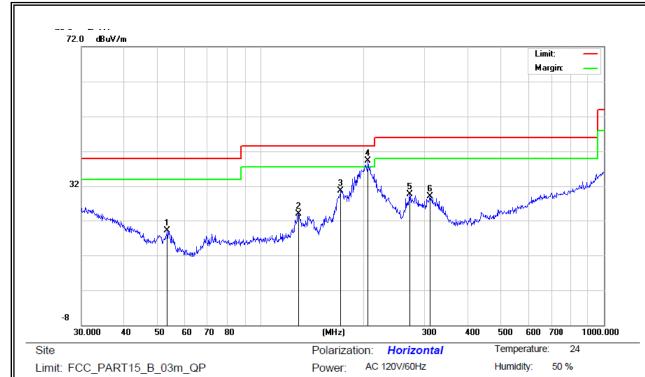
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.5306	13.90	20.05	33.95	40.00	-6.05	QP			
2		43.9658	17.51	13.38	30.89	40.00	-9.11	QP			
3		51.1208	19.08	9.87	28.95	40.00	-11.05	QP			
4	1	129.4677	22.81	11.97	34.78	43.50	-8.72	QP			
5	1	140.8351	22.13	12.14	34.27	43.50	-9.23	QP			
6	1	171.3926	20.29	13.57	33.86	43.50	-9.64	QP			

Power:

AC 120V/60Hz

<sup>\*:</sup>Maximum data x:Over limit !:over margin





Mode: NORMAL LINK

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		53.5052	10.21	8.94	19.15	40.00	-20.85	QP			
2		128.5629	12.11	11.93	24.04	43.50	-19.46	QP			
3		171.3925	17.07	13.57	30.64	43.50	-12.86	QP			
4	*	205.6751	26.57	12.77	39.34	43.50	-4.16	QP			
5		272.2776	16.82	12.88	29.70	46.00	-16.30	QP			
6	;	311.0867	14.89	14.29	29.18	46.00	-16.82	QP			

<sup>\*:</sup>Maximum data x:Over limit !:over margin



Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Eileen Liu

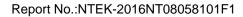
All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark	Comment
		Low Chanr	nel (2402 MHz)-Abo	ve 1G			
4804.254	60.52	-3.64	56.88	74.00	-17.12	Pk	Vertical
4804.254	42.14	-3.64	38.50	54.00	-15.50	AV	Vertical
7206.207	60.29	-0.95	59.34	74.00	-14.66	Pk	Vertical
7206.207	41.17	-0.95	40.22	54.00	-13.78	AV	Vertical
4804.339	63.65	-3.64	60.01	74.00	-13.99	Pk	Horizontal
4804.339	43.52	-3.64	39.88	54.00	-14.12	AV	Horizontal
7206.021	60.78	-0.95	59.83	74.00	-14.17	Pk	Horizontal
7206.021	37.77	-0.95	36.82	54.00	-17.18	AV	Horizontal
		Mid Chann	nel (2441 MHz)-Abo	ve 1G			
4880.178	58.69	-3.68	55.01	74.00	-18.99	Pk	Vertical
4880.178	44.16	-3.68	40.48	54.00	-13.52	AV	Vertical
7320.282	60.2	-0.82	59.38	74.00	-14.62	Pk	Vertical
7320.282	41.72	-0.82	40.90	54.00	-13.10	AV	Vertical
4880.063	60.35	-3.68	56.67	74.00	-17.33	Pk	Horizontal
4880.063	39.69	-3.68	36.01	54.00	-17.99	AV	Horizontal
7320.396	61.42	-0.82	60.60	74.00	-13.40	Pk	Horizontal
7320.396	45.68	-0.82	44.86	54.00	-9.14	AV	Horizontal
		High Chanr	nel (2480 MHz)- Abo	ove 1G			
4960.229	60.11	-3.59	56.52	74.00	-17.48	Pk	Vertical
4960.229	41.14	-3.59	37.55	54.00	-16.45	AV	Vertical
7440.132	60.02	-0.68	59.34	74.00	-14.66	Pk	Vertical
7440.132	45.58	-0.68	44.90	54.00	-9.10	AV	Vertical
4960.198	61.47	-3.59	57.88	74.00	-16.12	Pk	Horizontal
4960.198	41.15	-3.59	37.56	54.00	-16.44	AV	Horizontal
7440.286	63.36	-0.68	62.68	74.00	-11.32	Pk	Horizontal
7440.286	41.17	-0.68	40.49	54.00	-13.51	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

<sup>(2)</sup> Emission Level= Reading Level+Probe Factor +Cable Loss. (3)All other emissions more than 20dB below the limit.





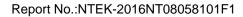


■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz							
EUT: SupraPad Tablet PC Model No.: 1070TPC							
Temperature:	20 ℃	Relative Humidity:	48%				
Test Mode: Mode1/Mode2/Mode3 Test By: Eileen Liu							

All the modulation modes were tested, the data of the worst mode are described in the following table

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment		
	1Mbps								
2390	60.52	-13.06	47.46	74	-26.54	Pk	Vertical		
2390	41.13	-13.06	28.07	54	-25.93	AV	Vertical		
2390	60.03	-13.06	46.97	74	-27.03	Pk	Horizontal		
2390	39.46	-13.06	26.4	54	-27.60	AV	Horizontal		
2483.5	58.97	-12.78	46.19	74	-27.81	Pk	Vertical		
2483.5	38.94	-12.78	26.16	54	-27.84	AV	Vertical		
2483.5	60.41	-12.78	47.63	74	-26.37	Pk	Horizontal		
2483.5	39.22	-12.78	26.44	54	-27.56	AV	Horizontal		







■ Spurious Emission in Restricted Bands 3260MMHz- 18000MHz								
EUT: SupraPad Tablet PC Model No.: 1070TPC								
Temperature:	emperature: 20 °C Relative Humidity: 48%							
Test Mode:	Test Mode: Mode1/Mode2/Mode3 Test By: Eileen Liu							

All the modulation modes were tested, the data of the worst mode are described in the following table

			1				1	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment	
	1Mbps							
3260	62.36	-13.06	49.3	74	-24.7	Pk	Vertical	
3260	51.58	-13.06	38.52	54	-15.48	AV	Vertical	
3260	60.59	-13.06	47.53	74	-26.47	Pk	Horizontal	
3260	52.45	-13.06	39.39	54	-14.61	AV	Horizontal	
3332	67.15	-12.78	54.37	74	-19.63	Pk	Vertical	
3332	52.59	-12.78	39.81	54	-14.19	AV	Vertical	
3332	63.44	-12.78	50.66	74	-23.34	Pk	Horizontal	
3332	52.69	-12.78	39.91	54	-14.09	AV	Horizontal	
17788	65.85	-13.06	52.79	74	-21.21	Pk	Vertical	
17788	54.02	-13.06	40.96	54	-13.04	AV	Vertical	
17788	60.44	-13.06	47.38	74	-26.62	Pk	Horizontal	
17788	50.74	-13.06	37.68	54	-16.32	AV	Horizontal	



# 7.3 6DB BANDWIDTH

## 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 DTS 01 Meas. Guidance v03r05

#### 7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

#### 7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

## 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

## 7.3.5 Test Procedure

The testing follows KDB 558074 DTS 01 Meas. Guidance v03r05

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW = 100KHz

 $VBW \geq 3^{*}RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

#### 7.3.6 Test Results

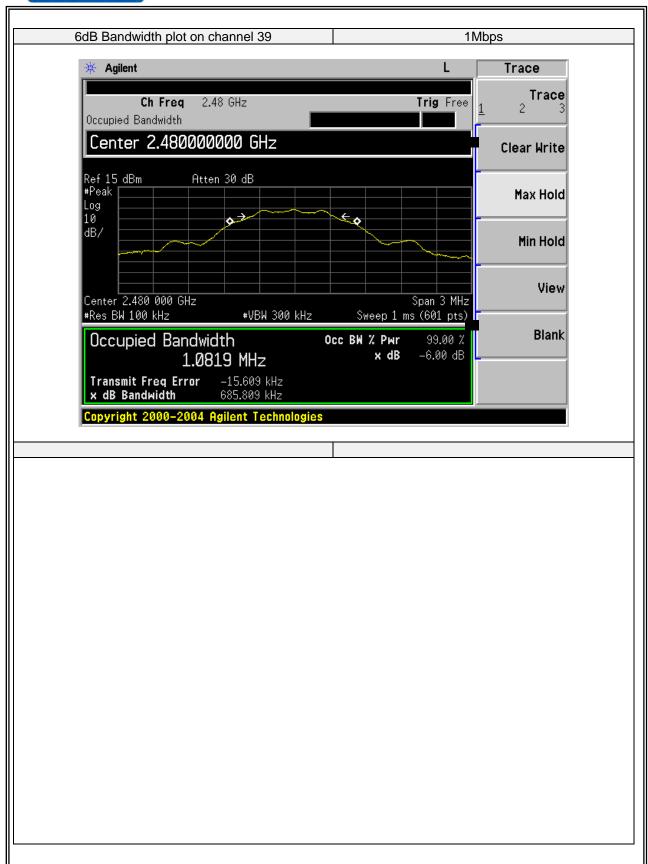
EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Eileen Liu

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	693.674	500	Pass
Middle	2440	692.053	500	Pass
High	2480	685.809	500	Pass











#### 7.4 DUTY CYCLE

## 7.4.1 Applicable Standard

According to KDB 558074)6)b), issued 06/09/2015

#### 7.4.2 Conformance Limit

No limit requirement.

#### 7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074(issued 06/09/2015)

The largest availble value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \le 6.25$  microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 8MHz(the largest available value)

 $VBW = 8MHz (\ge RBW)$ 

Number of points in Sweep >100

Detector function = peak

Trace = Clear write

Measure  $T_{\text{total}}$  and  $T_{\text{on}}$ 

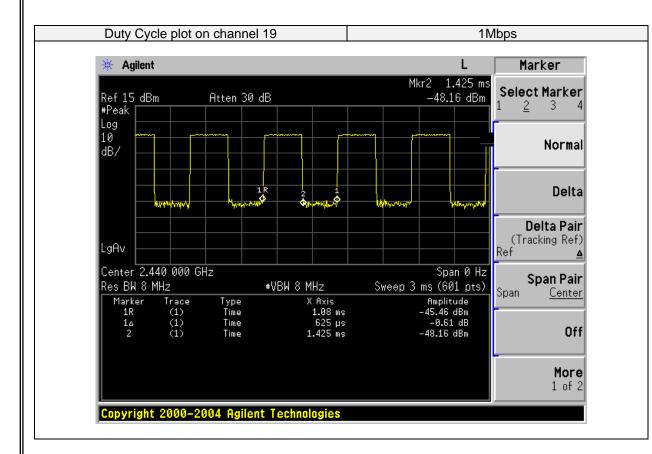
Calculate Duty Cycle =  $T_{on}/T_{total}$  and Duty Cycle Factor=10\*log(1/Duty Cycle)



## 7.4.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode5	Test By:	Eileen Liu

Modulation Mode	Data rate	Ton	T <sub>total</sub>	Duty Cycle	Duty Cycle Factor (dB)
GFSK	1Mbps	345.0	625.0	0.552	2.581





#### 7.5 PEAK OUTPUT POWER

## 7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 DTS 01 Meas. Guidance v03r05

#### 7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

## 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.5.5 Test Procedure

The testing follows KDB 558074 DTS 01 Meas. Guidance v03r05

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the RBW ≥DTS bandwidth(about 1MHz).

Set VBW = 3\*RBW(about 3MHz)

Set the span ≥3\*RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize.

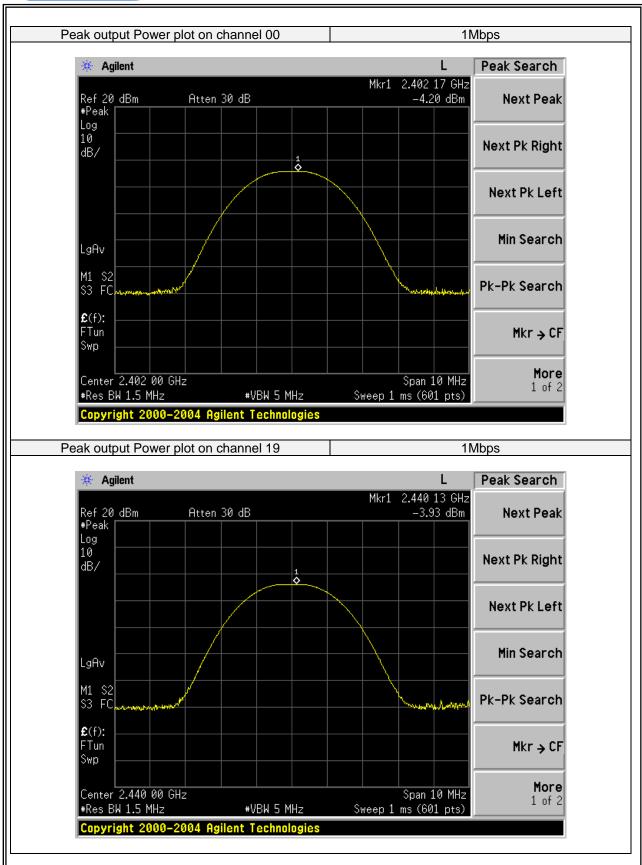
Use peak marker function to determine the peak amplitude level.

## 7.5.6 Test Results

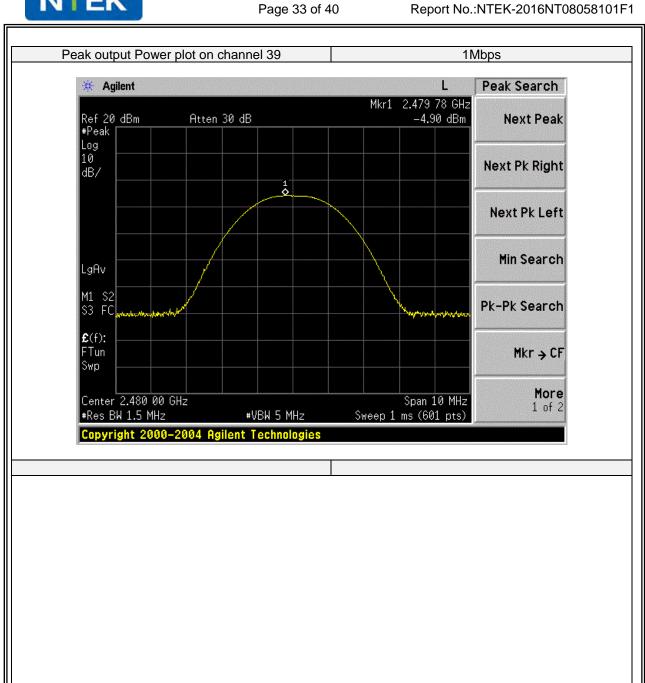
EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Eileen Liu

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict	
	1Mbps					
00	2402	Default	-4.20	30	PASS	
19	2440	Default	-3.93	30	PASS	
39	2480	Default	-4.90	30	PASS	











#### 7.6 POWER SPECTRAL DENSITY

## 7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 DTS 01 Meas. Guidance v03r05

#### 7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

- 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:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW ≥ 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 within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

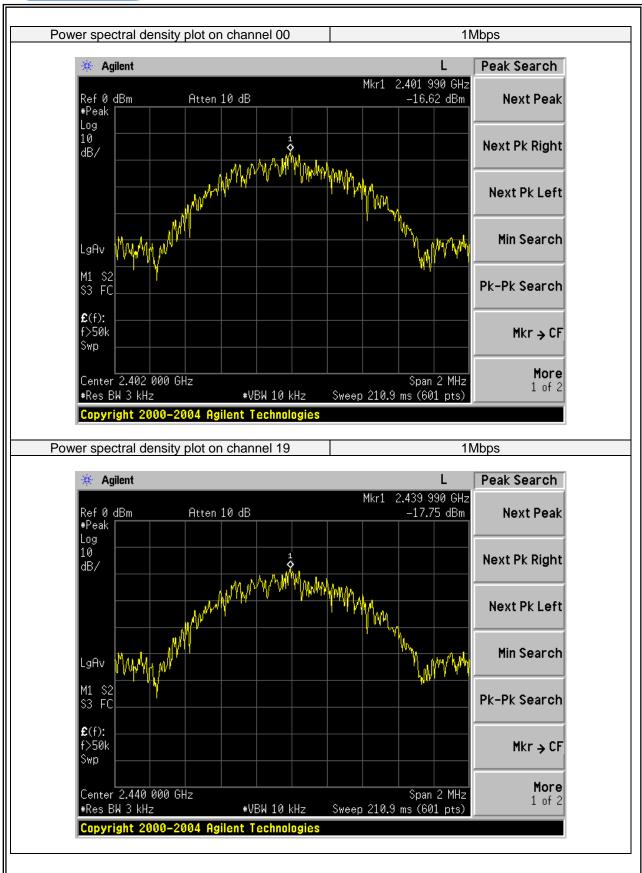


# 7.6.6 Test Results

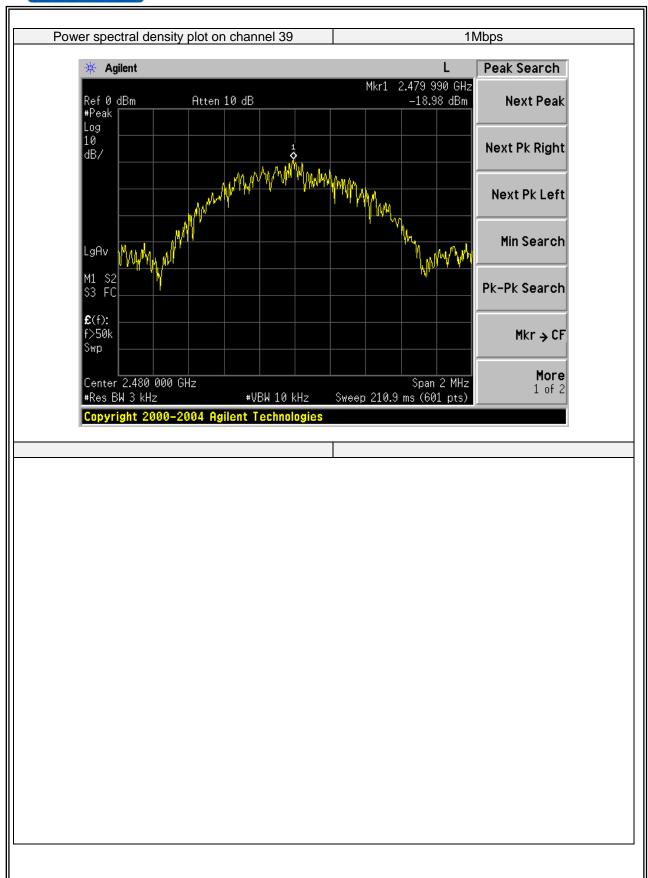
EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Eileen Liu

Test Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Verdict		
	1Mbps					
00	2402	-16.62	8	PASS		
19	2440	-17.75	8	PASS		
39	2480	-18.98	8	PASS		











#### 7.7 CONDUCTED BAND EDGE MEASUREMENT

## 7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 DTS 01 Meas. Guidance v03r05

#### 7.7.2 Conformance Limit

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.

#### 7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.7.5 Test Procedure

The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

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.

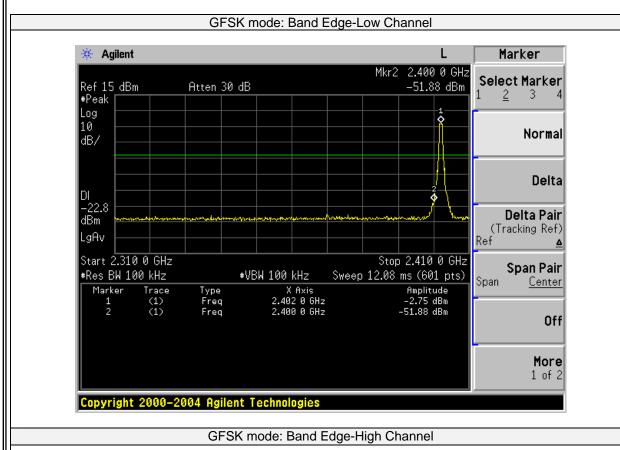
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

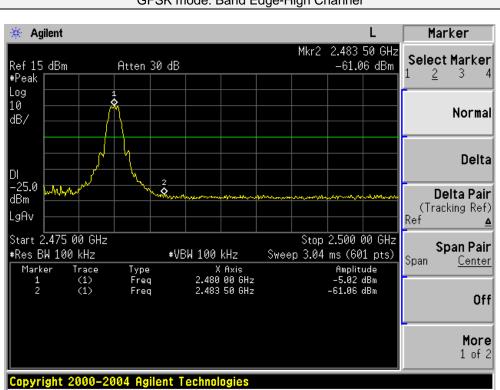
Repeat above procedures until all measured frequencies were complete.

#### 7.7.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	1070TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode5/Mode7	Test By:	Eileen Liu









# 7.8 ANTENNA APPLICATION

# 7.8.1 Antenna 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.

## 7.8.2 **Result**

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

**END OF REPORT**