

# FCC Test Report FCC ID: 2AAWC-769TPC

Product: SupraPad Tablet PC

Trade Name: iview

Model Number: 769TPC

Serial Model: N/A

Report No.: NTEK-2016NT08048078F4

#### Prepared for

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

## Prepared by

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Applicant's name .....: Wiltronic Corporation

Report No.: NTEK-2016NT08048078F4

# **TEST RESULT CERTIFICATION**

Address 13	939 Central Ave, Chino, CA, United States, 91710
Manufacturer's Name: Wi	Itronic Corporation
Address: 13	939 Central Ave, Chino, CA, United States, 91710
Product description	
Product name: Su	praPad Tablet PC
Model and/or type reference : 76	9TPC
Standards	CC Part15B:01 Oct.2016 ISI C63.4:2014
	een tested by NTEK, and the test results show that the impliance with Part 15 of FCC Rules. And it is applicable only to eport.
•	except in full, without the written approval of NTEK, this
•	d by NTEK, personnel only, and shall be noted in the revision of
the document.  Date of Test	
Date (s) of performance of tests	
Date of Issue	•
Test Result	
Testing Engineer	- Jusan Su
	(Susan Su)
	· ,
Technical Manage	er: Jason chen
	(Jason Chen)
Authorized Signat	cory: Sam. Chew
	(Sam Chen)



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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Test Item	Limit	Judgment	Remark		
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS			
	Radiated Emission	Class B	PASS			

# NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



#### 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 Number:238937; IC Registration Number:9270A-1

CNAS Registration Number: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 %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	SupraPad Tablet PC			
Trade Name	İVIEW®			
Model Name	769TPC			
Serial Model	N/A			
Model Difference	N/A			
Product Description	The EUT is a SupraPad  Connecting I/O port: Operation Frequency:  Modulation Type:	Tablet PC.  USB, DC in  BT:2402~2480 MHz  WIFI:802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz  BT(1Mbps)/BLE: GFSK  BT EDR(2Mbps): π/4-DQPSK  BT EDR(3Mbps): 8-DPSK  IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)		
Power Source	DC Voltage			
	Model: JK050150-S02US	D		
Adapter	Input: 100-240V~, 50/60Hz, 0.3A Max			
	Output: 5V ===, 1500mA			
Battery	DC 3.7V, 2800mAh			
HW Version	N/A			
SW Version	Iview_769TPC_20160817	7		



#### 2.1.1 DESCRIPTION OF TEST MODES

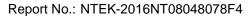
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Connect to PC
Mode 2	REC
Mode 3	ВТ
Mode 4	WIFI
Mode 5	TF CARD
Mode 6	Camera

For Conducted Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	WIFI			
Mode 5	TF CARD			
Mode 6	Camera			

For Radiated Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	WIFI			
Mode 5	TF CARD			
Mode 6	Camera			

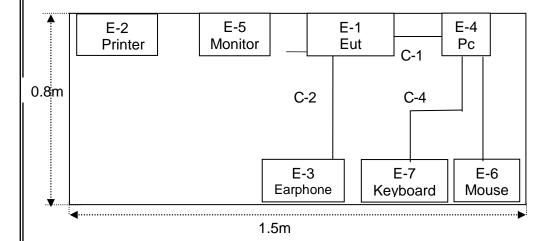
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.



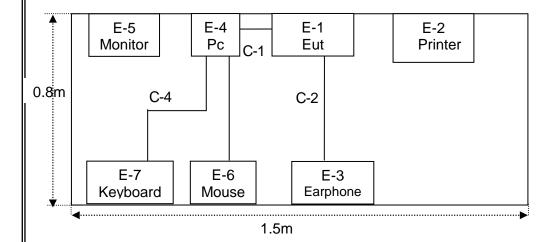


# 2.2 DESCRIPTION OF TEST SETUP

CE



RE





#### 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	SupraPad Tablet PC	<b>iv</b> iew <sup>®</sup>	769TPC	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Earphone	N/A	L662	N/A	Peripherals
E-4	Personal computer	DELL	FT4Y23X	34413561645	
E-5	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67e s	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	
E-7	Keyboard	DELL	SK-8185	OY526KUS	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	Earphone	NO	NO	0.8m	
C-3	USB Cable	NO	NO	1.5m	
C-4	USB Cable	NO	NO	1.5m	

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



# 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	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	620026441 6	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-101 80	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	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	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. 05	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

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	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	620026441 7	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	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

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

EDECLIENCY (MH-)	Class A (dBuV)		Class B (dBuV)	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

#### 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

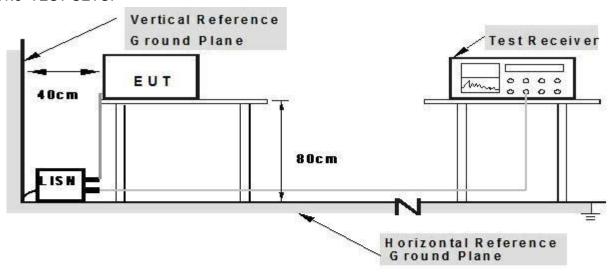
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 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 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

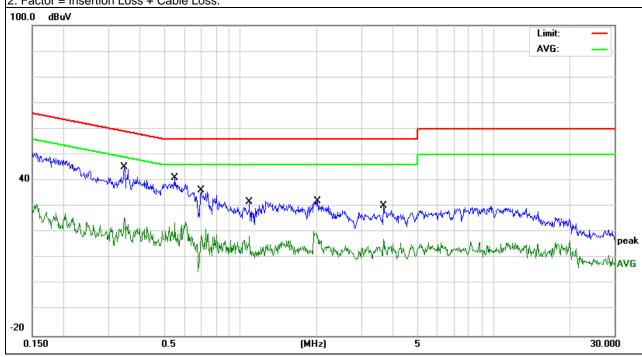


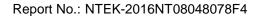
# 3.1.5 TEST RESULTS

EUT:	SupraPad Tablet PC	Model Name. :	769TPC		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-8-09		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 5V From Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demont
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3462	35.76	9.44	45.20	59.05	-13.85	QP
0.3462	16.27	9.44	25.71	49.05	-23.34	AVG
0.55	31.65	9.45	41.10	56.00	-14.90	QP
0.55	14.08	9.45	23.53	46.00	-22.47	AVG
0.6975	26.77	9.43	36.20	56.00	-19.80	QP
0.6975	9.55	9.43	18.98	46.00	-27.02	AVG
1.0859	22.36	9.44	31.80	56.00	-24.20	QP
1.0859	9.26	9.44	18.70	46.00	-27.30	AVG
2.0178	22.64	9.46	32.10	56.00	-23.90	QP
2.0178	9.37	9.46	18.83	46.00	-27.17	AVG
3.6699	20.83	9.47	30.30	56.00	-25.70	QP
3.6699	7.89	9.47	17.36	46.00	-28.64	AVG

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



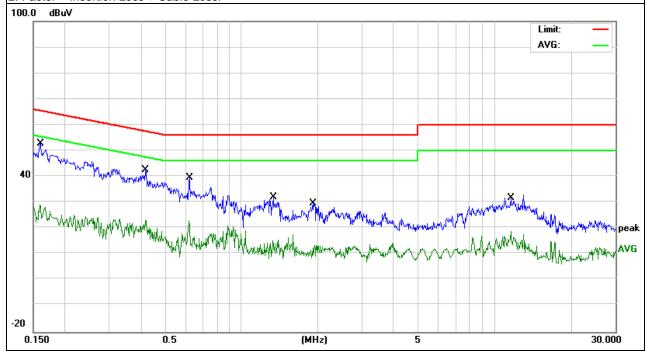




EUT:	SupraPad Tablet PC	Model Name. :	769TPC			
Temperature:	<b>26</b> ℃	Relative Humidity:	54%			
Pressure:	1010hPa	Test Date:	2016-8-09			
Test Mode:	Mode 1 Phase : N					
Test Voltage:	DC 5V From Adapter AC 120V/60Hz					

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1597	43.44	9.46	52.90	65.47	-12.57	QP
0.1597	18.31	9.46	27.77	55.47	-27.70	AVG
0.4178	33.06	9.44	42.50	57.49	-14.99	QP
0.4178	13.74	9.44	23.18	47.49	-24.31	AVG
0.6219	30.16	9.44	39.60	56.00	-16.40	QP
0.6219	10.90	9.44	20.34	46.00	-25.66	AVG
1.334	22.50	9.45	31.95	56.00	-24.05	QP
1.334	2.45	9.45	11.90	46.00	-34.10	AVG
1.9133	20.18	9.46	29.64	56.00	-26.36	QP
1.9133	0.42	9.46	9.88	46.00	-36.12	AVG
11.5739	22.19	9.71	31.90	60.00	-28.10	QP
11.5739	5.43	9.71	15.14	50.00	-34.86	AVG

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

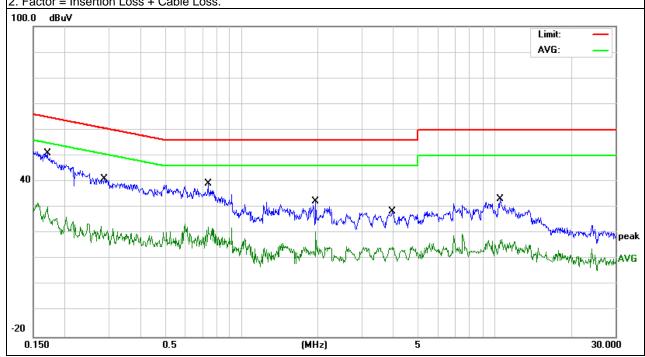




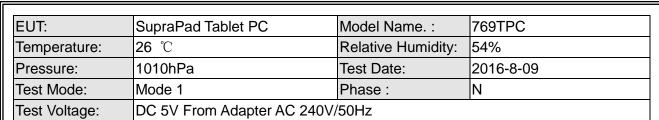
EUT:	SupraPad Tablet PC	Model Name. :	769TPC		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-8-09		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	est Voltage: DC 5V From Adapter AC 240V/50Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1703	41.64	9.46	51.10	64.94	-13.84	QP
0.1703	18.85	9.46	28.31	54.94	-26.63	AVG
0.2862	31.76	9.44	41.20	60.63	-19.43	QP
0.2862	10.72	9.44	20.16	50.63	-30.47	AVG
0.7378	29.97	9.43	39.40	56.00	-16.60	QP
0.7378	11.18	9.43	20.61	46.00	-25.39	AVG
1.9616	22.84	9.46	32.30	56.00	-23.70	QP
1.9616	11.30	9.46	20.76	46.00	-25.24	AVG
3.946	18.99	9.47	28.46	56.00	-27.54	QP
3.946	4.38	9.47	13.85	46.00	-32.15	AVG
10.5539	23.71	9.69	33.40	60.00	-26.60	QP
10.5539	7.59	9.69	17.28	50.00	-32.72	AVG

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

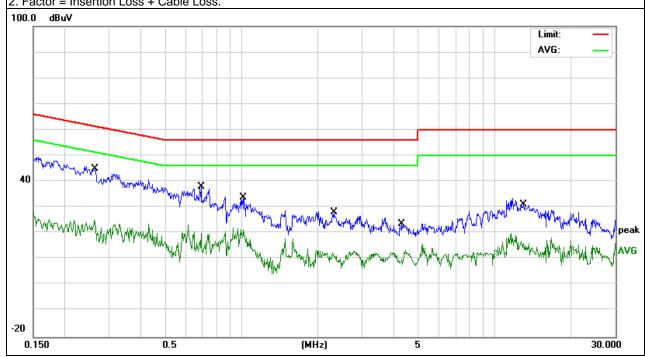






Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.263	35.55	9.45	45.00	61.33	-16.33	QP
0.263	14.71	9.45	24.16	51.33	-27.17	AVG
0.6895	28.57	9.43	38.00	56.00	-18.00	QP
0.6895	5.34	9.43	14.77	46.00	-31.23	AVG
1.018	24.56	9.44	34.00	56.00	-22.00	QP
1.018	11.75	9.44	21.19	46.00	-24.81	AVG
2.314	18.74	9.46	28.20	56.00	-27.80	QP
2.314	1.63	9.46	11.09	46.00	-34.91	AVG
4.3139	14.18	9.48	23.66	56.00	-32.34	QP
4.3139	0.27	9.48	9.75	46.00	-36.25	AVG
12.9938	21.56	9.74	31.30	60.00	-28.70	QP
12.9938	6.32	9.74	16.06	50.00	-33.94	AVG

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





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

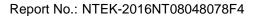
#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.





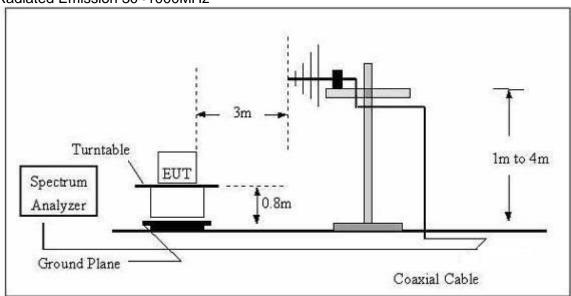
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

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

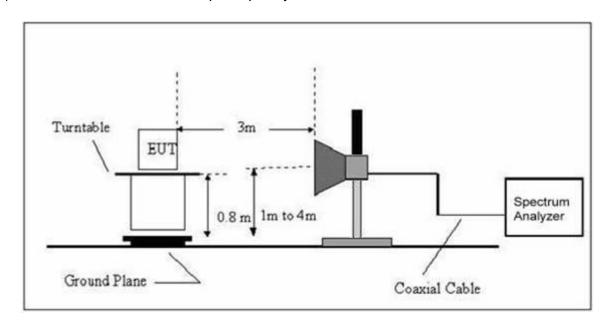
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Avg	1 MHz	10 Hz

#### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



# (B) Radiated Emission Test Set-Up Frequency Above 1GHz





# 3.2.4 TEST RESULTS

TEST RESULTS (30~1000 MHz)

	1 /					
EUT:	SupraPad Tablet PC	raPad Tablet PC Model Name:				
Temperature:	24 ℃	Relative Humidity:	54%			
Pressure:	1010 hPa	Test Date :	2016-8-09			
Test Mode :	Mode 1 Polarization : Horizontal					
Test Power:	DC 5V From Adapter AC 120V/60Hz					

	P	P		P	P			
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m) (dBuV/m)			
Н	46.8303	19.29	11.01	30.30	40.00	-9.70	QP	
Н	136.4598	19.21	12.07	31.28	43.50	-12.22	QP	
Н	233.3487	27.35	12.02	39.37	46.00	-6.63	QP	
Н	351.7078	14.85	15.45	30.30	46.00	-15.70	QP	
Н	451.1349	14.55	17.39	31.94	46.00	-14.06	QP	
Н	649.6597	12.83	21.57	34.40	46.00	-11.60	QP	

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



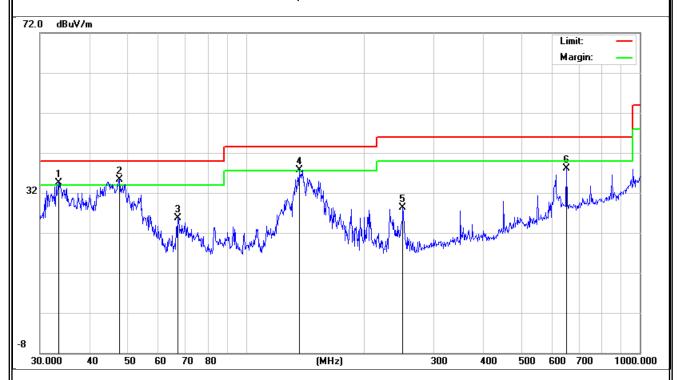


EUT:	SupraPad Tablet PC	Model Name :	769TPC			
Temperature:	<b>24</b> ℃	Relative Humidity:	54%			
Pressure:	1010 hPa	Test Date :	2016-8-09			
Test Mode:	Mode 1 Polarization : Vertical					
Test Power :	DC 5V From Adapter AC 120V/60Hz					

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV) (dB)		(dBuV/m)	(dBuV/m)	(dB)	, tement	
V	33.4448	16.01	18.59	34.60	40.00	-5.40	QP	
V	47.826	24.67	10.63	35.30	40.00	-4.70	QP	
V	67.2022	17.57	8.23	25.80	40.00	-14.20	QP	
V	136.4598	25.68	12.07	37.75	43.50	-5.75	QP	
V	250.3009	16.11	12.12	28.23	46.00	-17.77	QP	
V	651.9415	16.39	21.63	38.02	46.00	-7.98	QP	

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~25000MHz)

EUT:	SupraPad Tablet PC	Model Name :	769TPC			
Temperature:	24 ℃	Relative Humidity:	54%			
Pressure:	1010 hPa	Test Date :	2016-8-09			
Test Mode:	Mode 1 Polarization : Vertical					
Test Power:	DC 5V From Adapter AC 120V/60Hz					

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

Polar (H/V)	Frequen cy	Read Level	Cable loss	Antenn a Factor	Pream p Factor	Emissio n Level	Limits	Margi n	Remar k
	(MHz)	(dBµ V)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)	(dB)	2
V	2114.79	59.44	2.35	26.46	39.15	49.1	74	-24.9	Pk
V	2114.79	38.75	2.35	26.46	39.15	28.41	54	-25.6	AV
V	4602.41	57.35	4.12	36.22	41.6	56.09	74	-17.9	Pk
V	4602.41	37.69	4.12	36.22	41.6	36.43	54	-17.6	AV
Н	2095.93	58.98	2.18	24.36	39.13	46.39	74	-27.6	Pk
Н	2095.93	37.75	2.18	24.36	39.13	25.16	54	-28.8	AV
Н	3473.88	56.24	3.42	31.75	41.21	50.2	74	-23.8	Pk
Н	3473.88	35.19	3.42	31.75	41.21	29.15	54	-24.9	AV

#### Remark:

Emission Level = Read Level+Antenna Factor + Cable Loss - Amplifier.

Margin= Emission Level-Limits

#### Note:

- 1. Measuring frequencies from 1 GHz to 13GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument

Peak detector mode of the emission shown in Actual FS column.

3. The frequency that above 3GHz is mainly from the environment noise



# 4. EUT TEST PHOTO



