

RADIO TEST REPORT FCC ID: 2AAWC-769TPC

Product: SupraPad Tablet PC

Trade Name: iview

Model No.: 769TPC

Serial Model: N/A

Report No.: NTEK-2016NT08048078F3

Issue Date: 17 Aug. 2016

Prepared for

Wiltronic Corporation

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

Prepared by

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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:	769TPC
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 v03r04	

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.

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

Date of Test	· · · · · · · · · · · · · · · · · · ·	04 Aug. 2016 ~ 17 Aug. 2016
Testing Engineer	:	Gusan Su
		(Susan Su)
Technical Manager	:	Jason chen
•		(Jason Chen)
		San . 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)	Maximum 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 06, 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%	

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	SupraPad Tablet PC	
Trade Name	İVIEW®	
FCC ID	2AAWC-769TPC	
Model No.	769TPC	
Serial Model	N/A	
Model Difference	N/A	
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20); 2422-2452MHz for 802.11n(HT40);	
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;	
Number of Channels	11 channels for 802.11b/g/11n(HT20); 7 channels for 802.11n(HT40);	
Antenna Type	FPCB Antenna	
Antenna Gain	1.35 dBi	
Power supply	☐Adapter supply: Model: JK050150-S02USD Input: 100-240V~, 50/60Hz, 0.3A Max Output: 5V, 1500mA	
HW Version	N/A	
SW Version	Iview_769TPC_20160817	

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

Version	Description	Issued Date
Rev.01	Initial issue of report	Aug 17, 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 (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) 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.

Frequency and Channel list for 802.11b/g/n (HT20):

Channel	Frequency(MHz)
1	2412
2	2417
	•••
5	2432
6	2437

10	2457
11	2462

Note: fc=2412MHz+k×5MHz k=0 to 10

Frequency and Channel list for 802.11n (HT40):

Channel	Frequency(MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

Note: $fc=2422MHz+k\times5MHz$ k=0 to 6



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

For AC Conducted Emission	
Final Test Mode	Description
Mode 5	Normal Link Mode

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n HT20 CH1/ CH6/ CH11
Mode 4	802.11n HT40 CH3/ CH6/ CH9
Mode 5	Normal Link Mode

Note: For radiated test cases, the worst mode data rate 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.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) were used for all test.

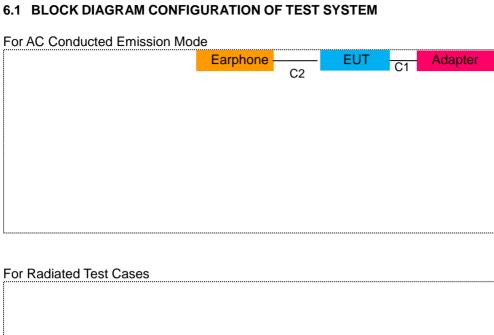
For Conducted Test Cases						
Final Test Mode Description						
Mode 1	802.11b CH1/ CH6/ CH11					
Mode 2	802.11g CH1/ CH6/ CH11					
Mode 3	802.11n HT20 CH1/ CH6/ CH11					
Mode 4	802.11n HT40 CH3/ CH6/ CH9					

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



For Conducted Test Cases

SETUP OF EQUIPMENT UNDER TEST





Measurement C3 **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	n Equipment Mfr/Bra		Model/Type No.	FCC ID	Note
1.	SupraPad Tablet PC	iview°	769TPC	2AAWC-769TPC	EUT
E-2	Adapter	N/A	JK050150-S02USD	N/A	Peripherals
E-3	Earphone	N/A	N/A	N/A	Peripherals
4.	N/A	N/A	N/A	N/A	Auxiliary equipment

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

radia	radiation 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

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

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

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7.1.2 Conformance Limit

Fragues (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			

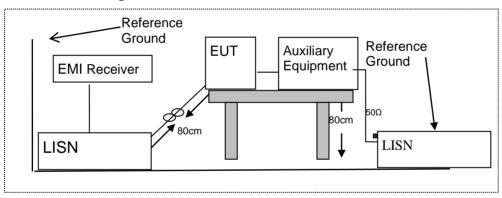
Note: 1. *Decreases with the logarithm of the frequency

- 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



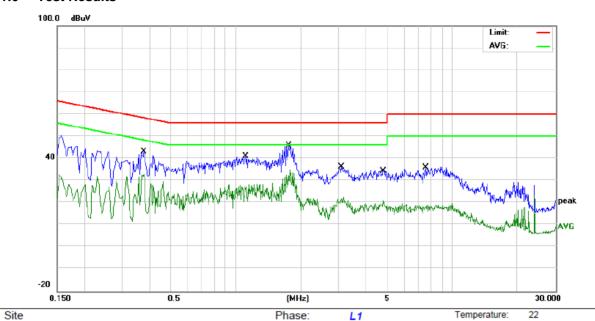
7.1.5 Test Procedure

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.
- 3. 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.



7.1.6 Test Results



Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

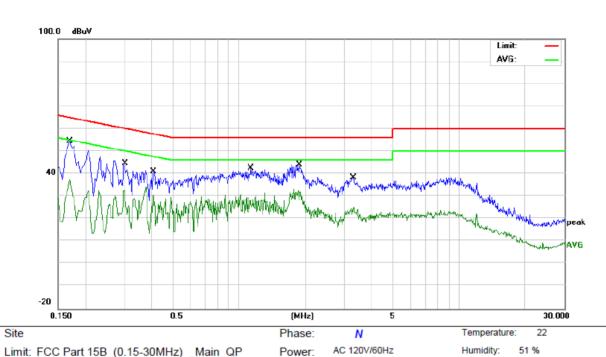
Power: AC 120V/60Hz Humidity: 51 %

Mode: Normal link

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3780	33.06	10.06	43.12	58.32	-15.20	QP	
2		0.3780	22.87	10.06	32.93	48.32	-15.39	AVG	
3		1.1140	31.19	9.86	41.05	56.00	-14.95	QP	
4		1.1140	16.53	9.86	26.39	46.00	-19.61	AVG	
5	*	1.7540	35.93	9.79	45.72	56.00	-10.28	QP	
6		1.7540	20.33	9.79	30.12	46.00	-15.88	AVG	
7		3.0820	26.46	9.79	36.25	56.00	-19.75	QP	
8		3.0820	12.51	9.79	22.30	46.00	-23.70	AVG	
9		4.8019	24.73	9.83	34.56	56.00	-21.44	QP	
10		4.8019	11.03	9.83	20.86	46.00	-25.14	AVG	
11		7.5339	26.06	9.85	35.91	60.00	-24.09	QP	
12		7.5339	8.43	9.85	18.28	50.00	-31.72	AVG	

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





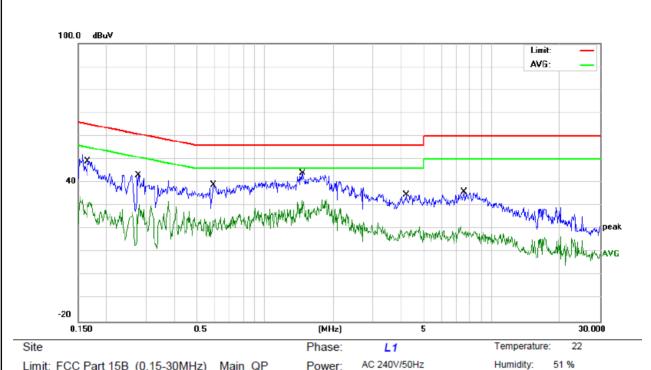
Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

Mode: Normal link

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1700	44.39	10.06	54.45	64.96	-10.51	QP	
2	0.1700	27.46	10.06	37.52	54.96	-17.44	AVG	
3	0.3020	34.42	10.13	44.55	60.19	-15.64	QP	
4	0.3020	19.81	10.13	29.94	50.19	-20.25	AVG	
5	0.4100	31.06	10.04	41.10	57.65	-16.55	QP	
6	0.4100	15.73	10.04	25.77	47.65	-21.88	AVG	
7	1.1300	32.54	9.87	42.41	56.00	-13.59	QP	
8	1.1300	17.09	9.87	26.96	46.00	-19.04	AVG	
9	1.8860	34.26	9.79	44.05	56.00	-11.95	QP	
10	1.8860	23.01	9.79	32.80	46.00	-13.20	AVG	
11	3.2940	28.50	9.78	38.28	56.00	-17.72	QP	
12	3.2940	14.92	9.78	24.70	46.00	-21.30	AVG	

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





Power:

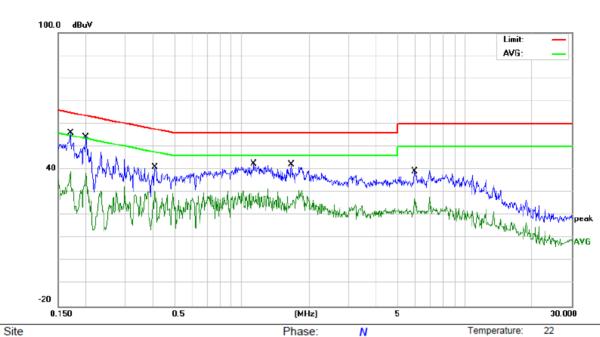
Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

Mode: Normal link

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1650	38.98	10.12	49.10	65.20	-16.10	QP	
2		0.1650	20.91	10.12	31.03	55.20	-24.17	AVG	
3		0.2757	33.16	10.14	43.30	60.94	-17.64	QP	
4		0.2757	17.89	10.14	28.03	50.94	-22.91	AVG	
5		0.5939	29.03	9.80	38.83	56.00	-17.17	QP	
6		0.5939	11.28	9.80	21.08	46.00	-24.92	AVG	
7 '	*	1.4659	34.39	9.81	44.20	56.00	-11.80	QP	
8		1.4659	19.31	9.81	29.12	46.00	-16.88	AVG	
9		4.1939	24.81	9.81	34.62	56.00	-21.38	QP	
10		4.1939	9.22	9.81	19.03	46.00	-26.97	AVG	
11		7.5339	26.06	9.85	35.91	60.00	-24.09	QP	
12		7.5339	8.43	9.85	18.28	50.00	-31.72	AVG	

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





Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

N

Power:

AC 240V/50Hz Humidity: 51 %

Mode: Normal link

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1703	45.94	10.06	56.00	64.94	-8.94	QP	
2		0.1703	27.12	10.06	37.18	54.94	-17.76	AVG	
3		0.1995	44.28	10.02	54.30	63.63	-9.33	QP	
4		0.1995	28.59	10.02	38.61	53.63	-15.02	AVG	
5		0.4098	31.06	10.04	41.10	57.65	-16.55	QP	
6		0.4098	15.73	10.04	25.77	47.65	-21.88	AVG	
7		1.1298	32.54	9.87	42.41	56.00	-13.59	QP	
8		1.1298	17.09	9.87	26.96	46.00	-19.04	AVG	
9		1.6698	32.53	9.82	42.35	56.00	-13.65	QP	
10		1.6698	15.78	9.82	25.60	46.00	-20.40	AVG	
11		5.9537	29.40	9.80	39.20	60.00	-20.80	QP	
12		5.9537	17.48	9.80	27.28	50.00	-22.72	AVG	

^{*:}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 Part 15.205. Restricted bands

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		<u> </u>	

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.

	confected barra opecifica on	13.203(a), then the 13.203	na) iiinii iin tine table belew 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
Ī	216-960	200	46	3
	Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Fraguenov(MHz)	Class B (dBuV	/m) (at 3M)		
Frequency(MHz)	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.

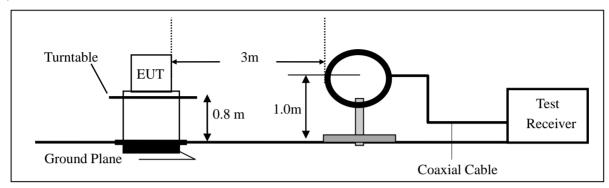


7.2.3 Measuring Instruments

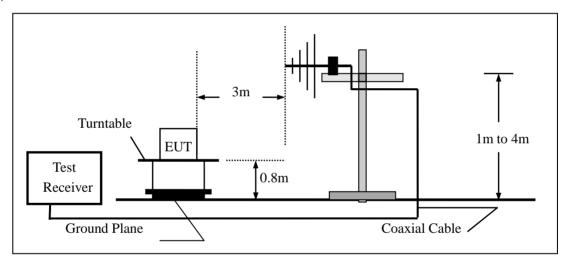
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

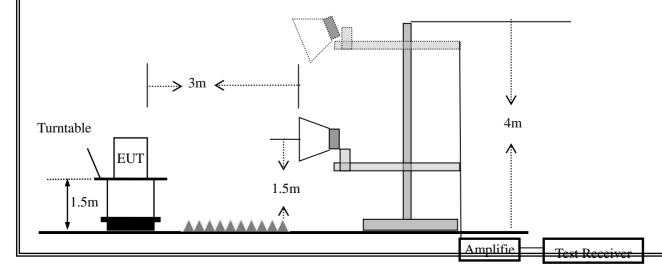
(a) For radiated emissions below 30MHz



(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:

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 / 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: For peak measurement:

Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	Susan Su

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

Temperature:

50 %

Humidity:



■ Spurious Emission below 1GHz (30MHz to 1GHz)

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



Polarization:

Power:

on: Vertical AC 120V/60Hz

Site

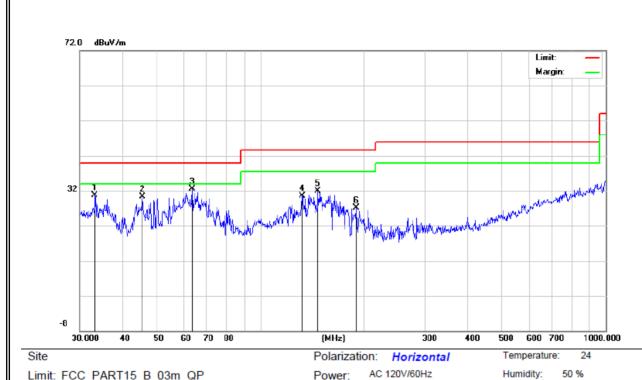
Limit: FCC_PART15_B_03m_QP

Mode: Normal Link

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
1		35.2511	6.35	17.85	24.20	40.00	-15.80	QP	
2	*	52.3912	15.69	9.41	25.10	40.00	-14.90	QP	
3		84.1098	11.92	10.08	22.00	40.00	-18.00	QP	
4		140.3420	13.59	12.11	25.70	43.50	-17.80	QP	
5		146.8874	14.55	12.55	27.10	43.50	-16.40	QP	
6		293.0842	16.06	13.64	29.70	46.00	-16.30	QP	

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





Limit: FCC_PART15_B_03m_QP

Mode: Normal Link

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector
1		33.2111	11.96	18.74	30.70	40.00	-9.30	QP
2		45.5347	18.49	11.81	30.30	40.00	-9.70	QP
3	*	63.5356	26.00	6.50	32.50	40.00	-7.50	QP
4		132.2204	18.48	12.02	30.50	43.50	-13.00	QP
5		146.8874	19.45	12.55	32.00	43.50	-11.50	QP
6		189.7384	14.61	12.59	27.20	43.50	-16.30	QP

Power:

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



■ Spurious Emission Above 1GHz (1GHz to 27GHz)

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

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

Frequenc	Read	Cable	Antenna	Preamp	Emission	Limits	Morgin		
У	Level	loss	Factor	Factor	Level	Limits	Margin	Remark	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
Low Channel (2412 MHz)-Above 1G									
4824.458	55.15	4.68	35.59	44.30	51.12	74.00	-22.88	Pk	
4824.458	49.61	4.68	35.59	44.30	45.58	54.00	-8.42	AV	
7236.206	48.29	7.10	36.22	44.60	47.01	74.00	-26.99	Pk	
7236.206	42.19	7.10	36.22	44.60	40.91	54.00	-13.09	AV	
4824.339	56.21	4.65	35.55	44.30	52.11	74.00	-21.89	Pk	
4824.339	48.34	4.65	35.55	44.30	44.24	54.00	-9.76	AV	
7236.102	47.33	7.11	36.24	44.52	46.16	74.00	-27.84	Pk	
7236.102	41.19	7.11	36.24	44.52	40.02	54.00	-13.98	AV	
			Mid	Channel (2	437 MHz)- <i>A</i>	Above 1G			
4874.107	58.26	5.21	35.66	44.20	54.93	74.00	-19.07	Pk	
4874.107	45.18	5.21	35.66	44.20	41.85	54.00	-12.15	AV	
7311.089	48.36	7.10	36.50	44.43	47.53	74.00	-26.47	Pk	
7311.089	42.06	7.10	36.50	44.43	41.23	54.00	-12.77	AV	
4874.136	57.33	5.21	35.66	44.20	54.00	74.00	-20.00	Pk	
4874.136	46.26	5.21	35.66	44.20	42.93	54.00	-11.07	AV	
7311.335	47.29	7.10	36.50	44.43	46.46	74.00	-27.54	Pk	
7311.335	41.38	7.10	36.50	44.43	40.55	54.00	-13.45	AV	
			High	Channel (2	462 MHz)-	Above 1G			
4924.683	58.67	5.21	35.52	44.21	55.19	74.00	-18.81	Pk	
4924.683	46.26	5.21	35.52	44.21	42.78	54.00	-11.22	AV	
7386.248	47.18	7.10	36.53	44.60	46.21	74.00	-27.79	Pk	
7386.248	41.07	7.10	36.53	44.60	40.10	54.00	-13.90	AV	
4924.032	57.33	5.21	35.52	44.21	53.85	74.00	-20.15	Pk	
4924.032	45.34	5.21	35.52	44.21	41.86	54.00	-12.14	AV	
7386.169	48.16	7.10	36.53	44.60	47.19	74.00	-26.81	Pk	
7386.169	43.07	7.10	36.53	44.60	42.10	54.00	-11.9	AV	

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

- (2) Emission Level= Antenna Factor + Cable Loss + Read Level Preamp Factor
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4)"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average didn't record.





■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the modulation modes have been tested and all other emissions more than 20dB below the limit, the worst result was report as below:

WOIST TESUIT	was repo	rt as bore	, vv .						
Frequenc y	Readin g Level	Cable Loss	Antenn a Factor	Preamp Factor	Emissio n Level	Limits	Margin	Detecto r	Comm ent
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Ont
				802	.11b				
2390	69.61	3.14	27.21	43.80	56.16	74	-17.84	Pk	Vertica
2390	60.62	3.14	27.21	43.80	47.17	54	-6.83	AV	Vertica
2483.5	71.34	3.58	27.70	44.00	58.62	74	-15.38	Pk	Horizo
2483.5	61.26	3.58	27.70	44.00	48.54	54	-5.46	AV	Horizo
				802	.11g				-
2390	68.29	3.14	27.21	43.80	54.84	74	-19.16	Pk	Vertica
2390	59.34	3.14	27.21	43.80	45.89	54	-8.11	AV	Vertica
2483.5	70.12	3.58	27.70	44.00	57.4	74	-16.6	Pk	Horizo
2483.5	60.22	3.58	27.70	44.00	47.5	54	-6.5	AV	Horizo
				802.1	1n(20)				
2390	68.69	3.14	27.21	43.80	55.24	74	-18.76	Pk	Vertica
2390	58.38	3.14	27.21	43.80	44.93	54	-9.07	AV	Vertica
2483.5	70.36	3.58	27.70	44.00	57.64	74	-16.36	Pk	Horizo
2483.5	60.05	3.58	27.70	44.00	47.33	54	-6.67	AV	Horizo
	802.11n(40)								
2390	69.31	3.14	27.21	43.80	55.86	74	-18.14	Pk	Vertica
2390	59.66	3.14	27.21	43.80	46.21	54	-7.79	AV	Vertica
2483.5	69.37	3.58	27.70	44.00	56.65	74	-17.35	Pk	Horizo
2483.5	58.64	3.58	27.70	44.00	45.92	54	-8.08	AV	Horizo



■ Spurious Emission in Restricted Bands 3260MMHz- 18000MHz

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

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Frequenc y	Readin g Level	Cable Loss	Antenn a	Preamp Factor	Emission Level	Limits	Margin	Detect or	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)	(dB)	Туре	Comment
3260	60.04	4.04	29.57	44.70	48.95	74	-25.05	Pk	Vertical
3260	55.73	4.04	29.57	44.70	44.64	54	-9.36	AV	Vertical
3260	61.08	4.04	29.57	44.70	49.99	74	-24.01	Pk	Horizontal
3260	56.54	4.04	29.57	44.70	45.45	54	-8.55	AV	Horizontal
3332	64.18	4.26	29.87	44.40	53.91	74	-20.09	Pk	Vertical
3332	53.08	4.26	29.87	44.40	42.81	54	-11.19	AV	Vertical
3332	62.11	4.26	29.87	44.40	51.84	74	-22.16	Pk	Horizontal
3332	52.18	4.26	29.87	44.40	41.91	54	-12.09	AV	Horizontal
17797	35.18	10.99	43.95	43.50	46.62	74	-27.38	Pk	Vertical
17797	36.51	10.99	43.95	43.50	47.95	54	-6.05	AV	Vertical
17788	33.15	11.81	43.69	44.60	44.05	74	-29.95	Pk	Horizontal
17788	34.67	11.81	43.69	44.60	45.57	54	-8.43	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 v03r04

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 v03r04

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

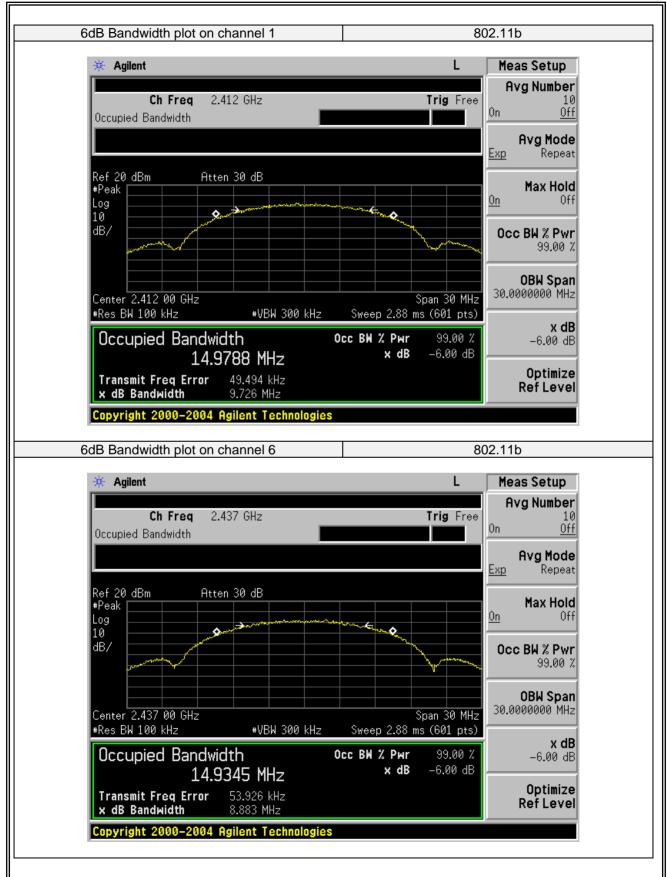


7.3.6 Test Results

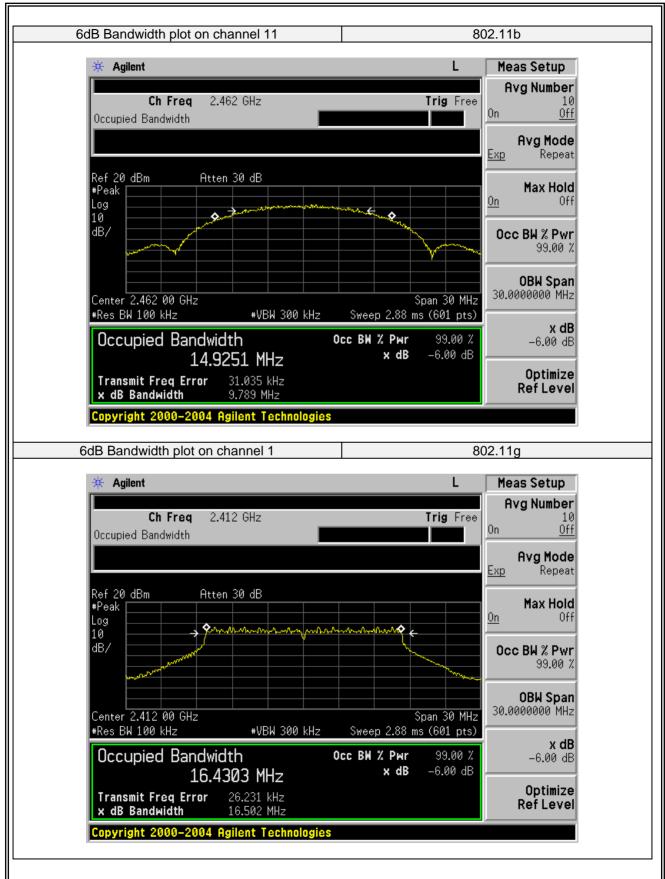
EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/Mode4	Test By:	Susan Su

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result			
802.11b							
1	2412	9726.000	500	Pass			
6	2437	8883.000	500	Pass			
11	2462	9789.000	500	Pass			
802.11g							
1	2412	16502.000	500	Pass			
6	2437	16497.000	500	Pass			
11	2462	16471.000	500	Pass			
		802.11n HT20					
1	2412	17648.000	500	Pass			
6	2437	17687.000	500	Pass			
11	2462	17701.000	500	Pass			
		802.11n HT40					
3	2422	36356.000	500	Pass			
6	2437	35219.000	500	Pass			
9	2452	35505.000	500	Pass			

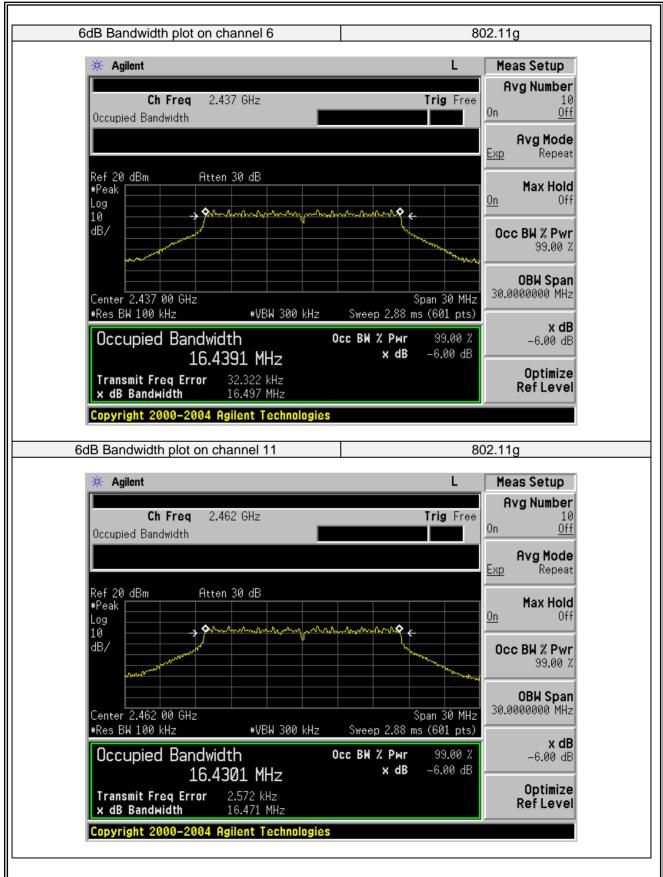




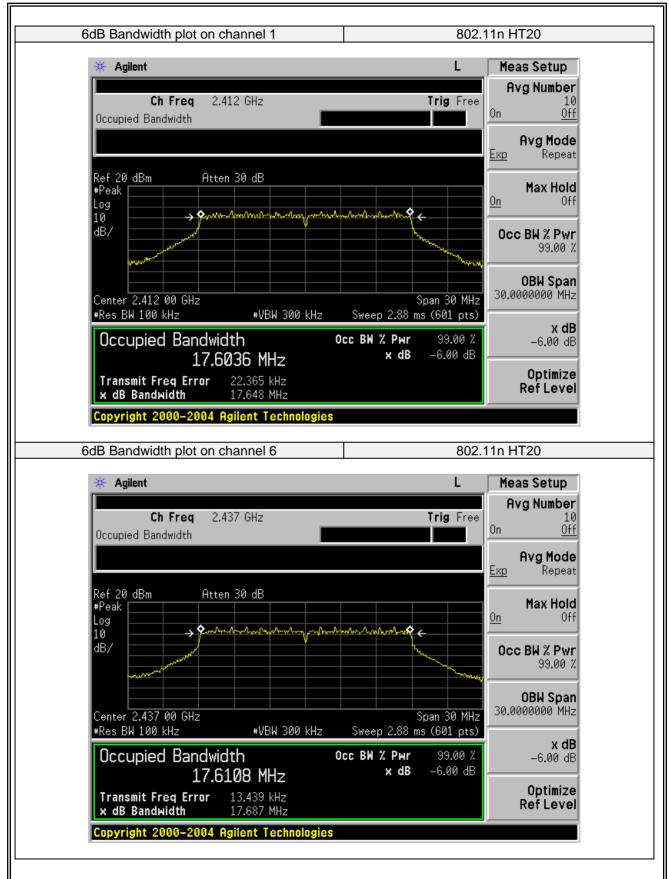




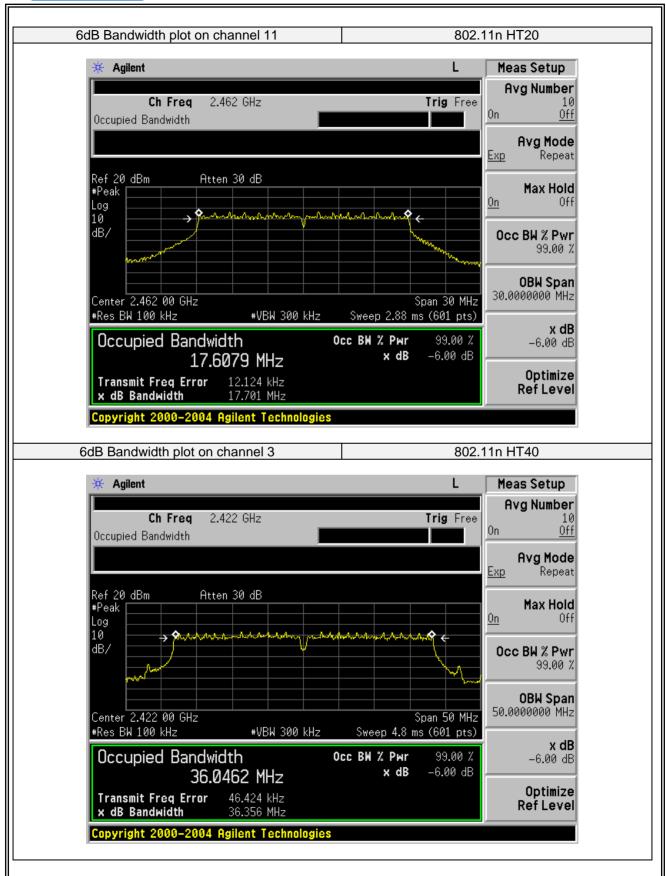




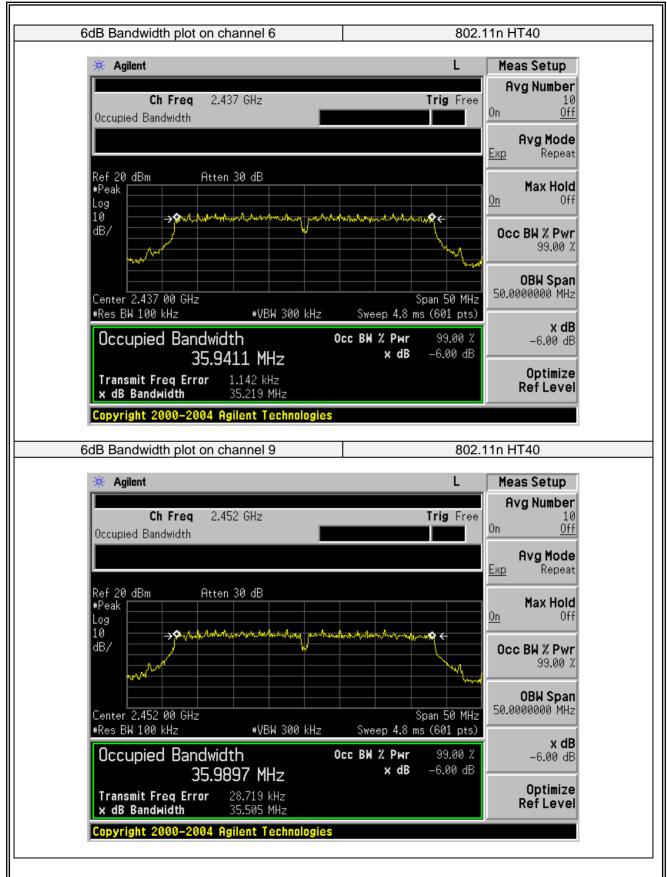














7.4 20DB BANDWIDTH

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 DTS 01 Meas. Guidance v03r04

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 testing follows KDB 558074 DTS 01 Meas. Guidance v03r04

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

 $VBW \ge 3*RBW$

Sweep = auto

Detector function = peak

Trace = max hold



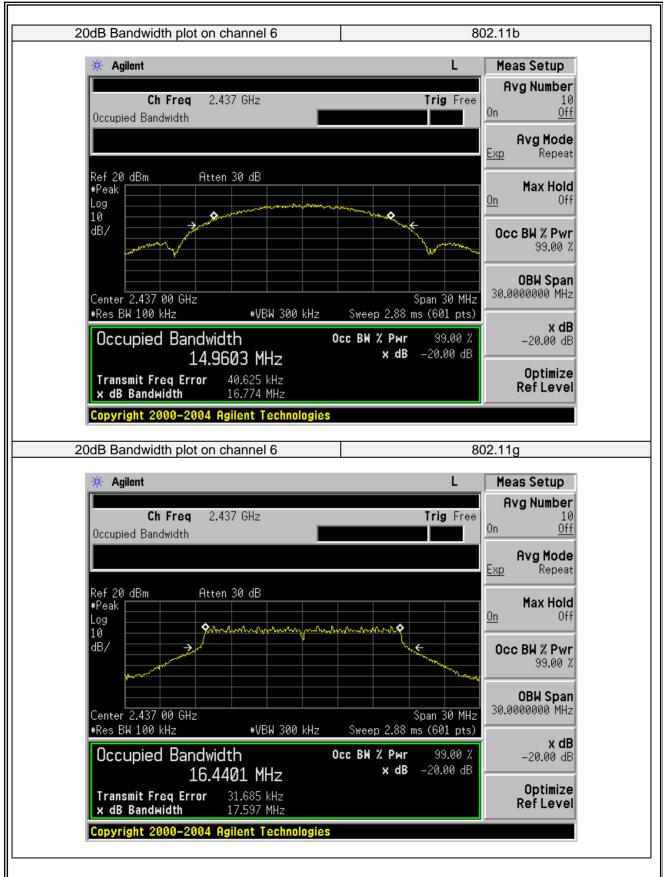
7.4.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/Mode4	Test By:	Susan Su

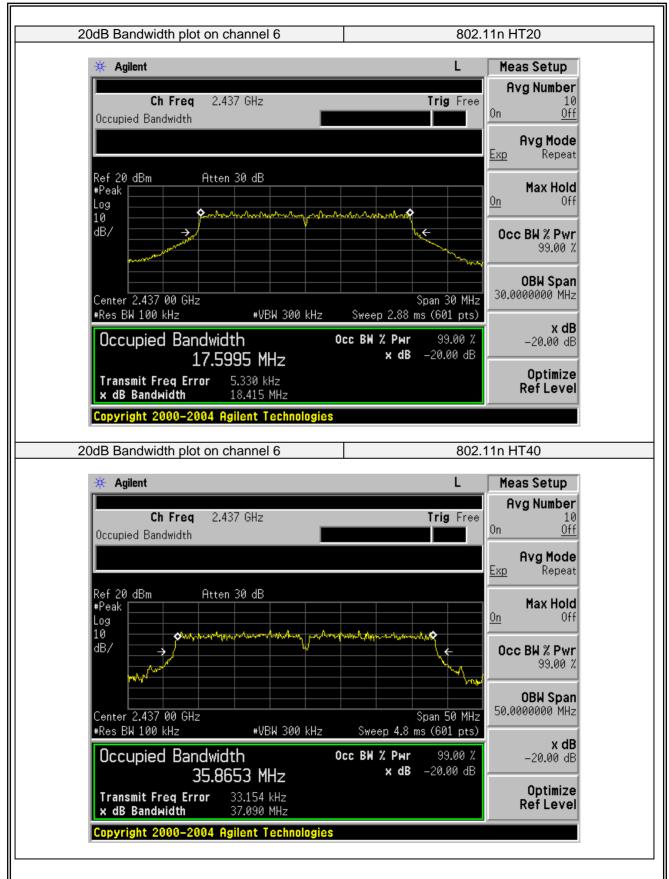
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Band	Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Result
802.11b	2437	16774.000	N/A	Pass
802.11g	2437	17597.000	N/A	Pass
802.11n HT20	2437	18415.000	N/A	Pass
802.11n HT40	2437	37090.000	N/A	Pass











7.5 DUTY CYCLE

7.5.1 Applicable Standard

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

7.5.2 Conformance Limit

No limit requirement.

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 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 \leq 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_{total} and T_{on}

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



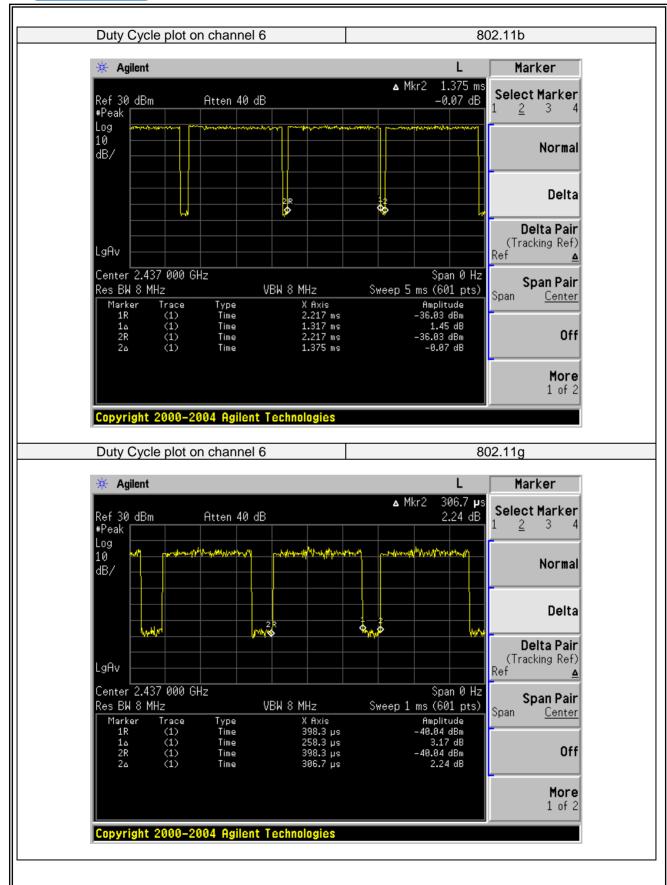
7.5.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/Mode4	Test By:	Susan Su

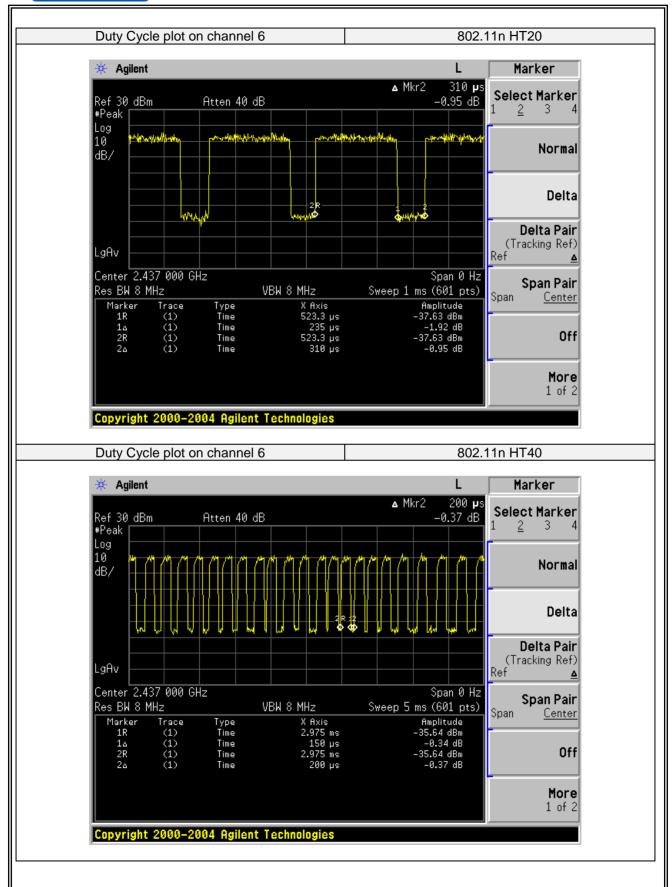
Mode	Data rate	Channel	T_{on}	T_{total}	Duty Cycle	Duty Cycle Factor (dB)
802.11b	1Mbps	6	1.317	1.375	0.9578	0.187
802.11g	6Mbps	6	258.3	306.7	0.8422	0.746
802.11n HT20	MCS0	6	235	310	0.7581	1.203
802.11n HT40	MCS0	6	150	200	0.7500	1.249

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











7.6 MAXIMUM OUTPUT POWER

7.6.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 DTS 01 Meas. Guidance v03r04

7.6.2 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.

7.6.3 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 KDB 558074 DTS 01 Meas. Guidance v03r04 section 9.2.2

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.

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- d) Set VBW ≥3 x RBW.
- e) Number of points in sweep $\geq 2x$ span / RBW.

(This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)

- f) Sweep time = auto.
- g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- h) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.

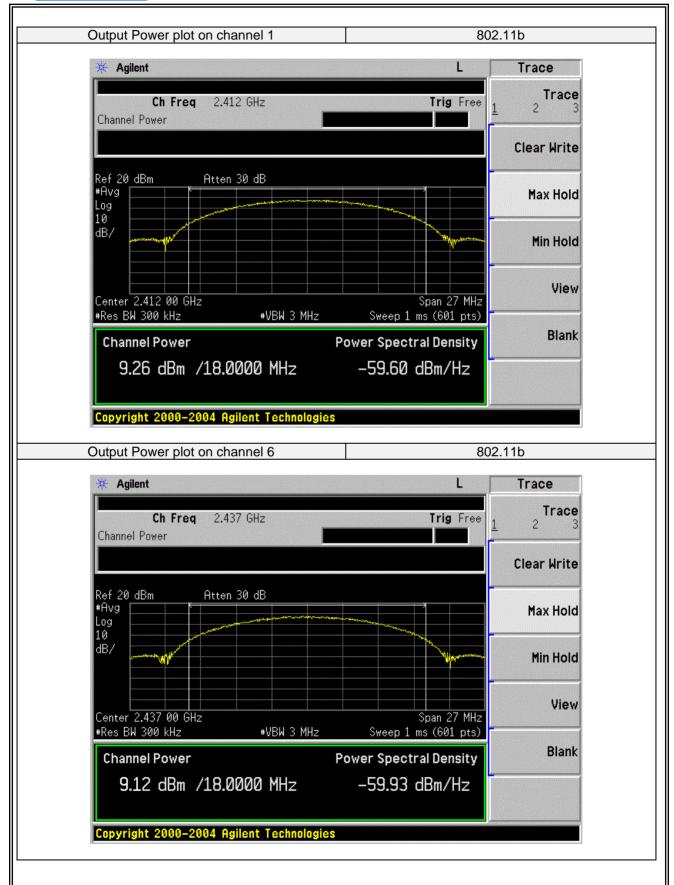


7.6.6 Test Results

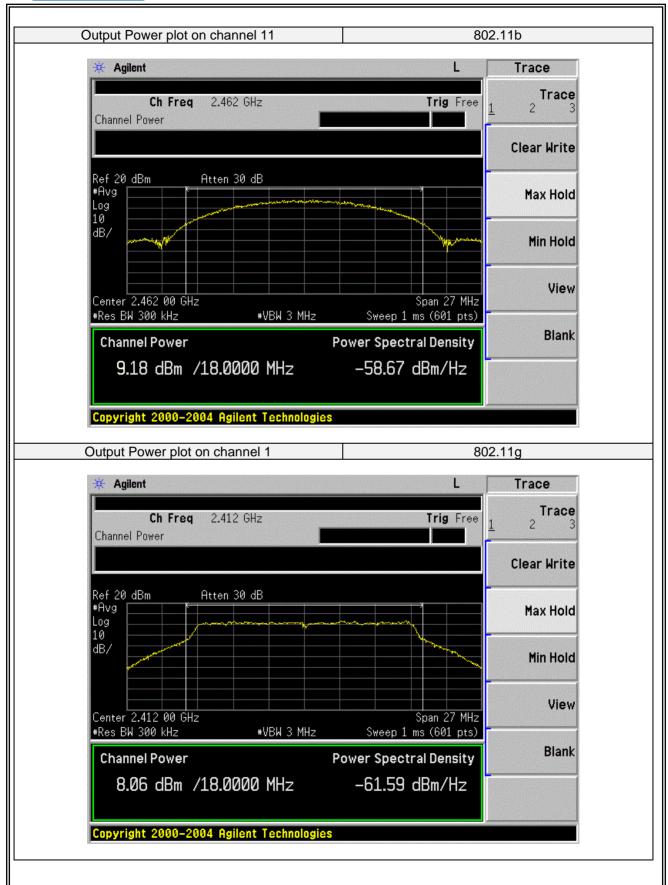
EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Test Channel	Frequency (MHz)	Power Setting	Duty Cycle Factor (dB)	Average Output Power (dBm)	Maximum Output Power(dBm)	LIMIT (dBm)	Verdict
				802.11b			
1	2412	Default	0.187	9.26	9.447	30	PASS
6	2437	Default	0.187	9.12	9.307	30	PASS
11	2462	Default	0.187	9.18	9.367	30	PASS
	802.11g						
1	2412	Default	0.746	8.06	8.806	30	PASS
6	2437	Default	0.746	8.05	8.796	30	PASS
11	2462	Default	0.746	8.29	9.036	30	PASS
	802.11n HT20						
1	2412	Default	1.203	7.81	9.013	30	PASS
6	2437	Default	1.203	7.66	8.863	30	PASS
11	2462	Default	1.203	7.03	8.233	30	PASS
	802.11n HT40						
3	2422	Default	1.249	6.46	7.709	30	PASS
6	2437	Default	1.249	6.71	7.959	30	PASS
9	2452	Default	1.249	6.38	7.629	30	PASS

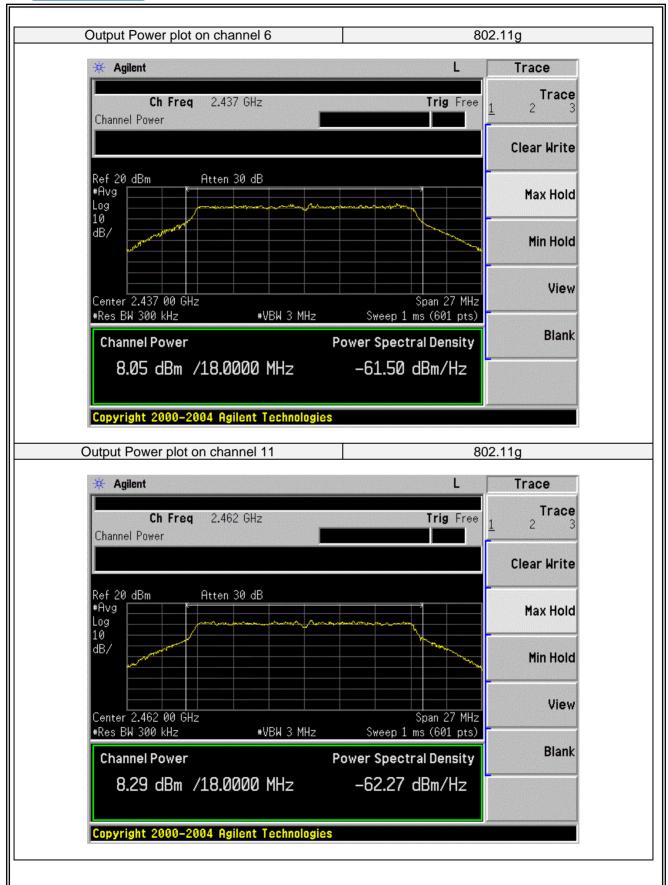




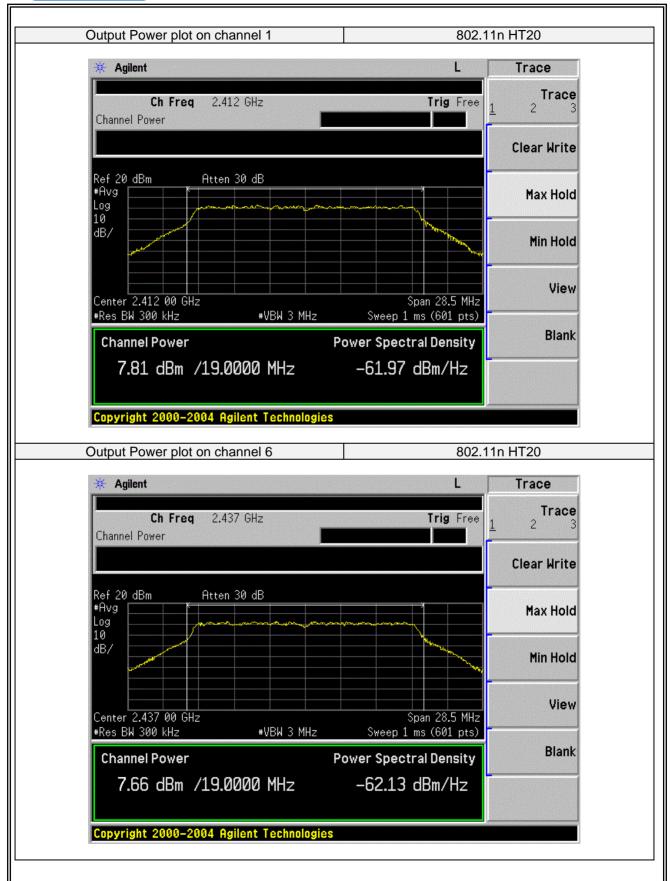






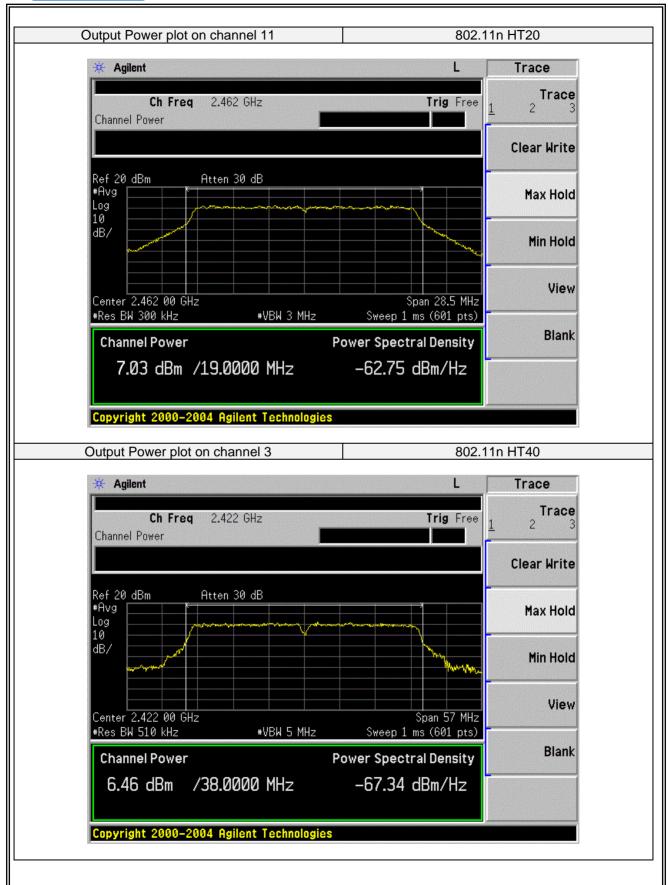




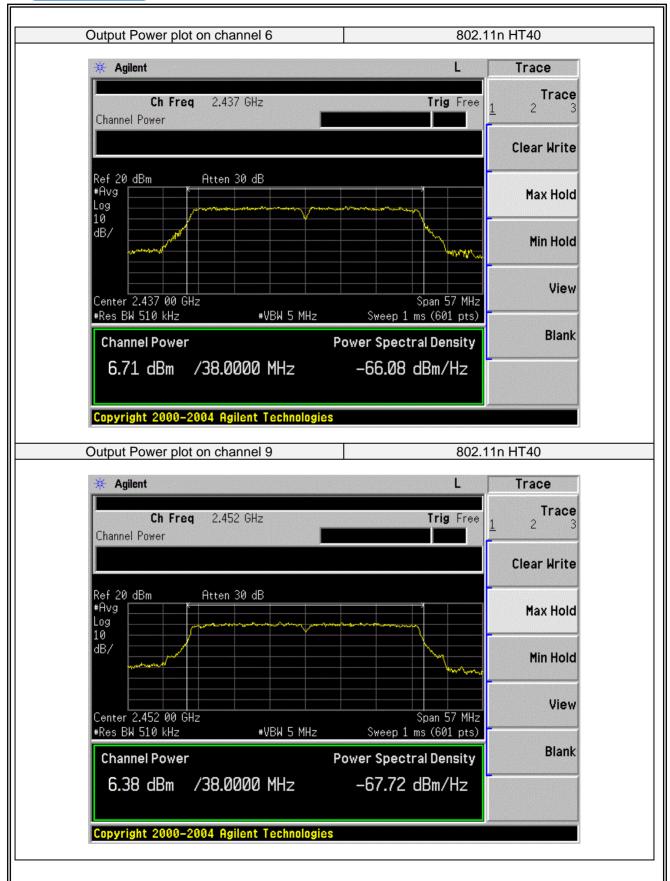


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7.7 POWER SPECTRAL DENSITY

7.7.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 DTS 01 Meas. Guidance v03r04

7.7.2 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.

7.7.3 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 Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r04

This procedure may be used when the maximum (average) conducted output power was used to demonstrate compliance to the output power limit. This is the baseline method for determining the maximum (average) conducted PSD level. If the instrument has an RMS power averaging detector, it must be used; otherwise, use the sample detector. The EUT must be configured to transmit continuously (duty cycle ≥ 98%); otherwise sweep triggering/signal gating must be implemented to ensure that measurements are made only when the EUT is transmitting at its maximum power control level (no transmitter off time is to be considered).

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.

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW ≥3 x RBW.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducin
- k) Add [10 log (1 / D)], where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.

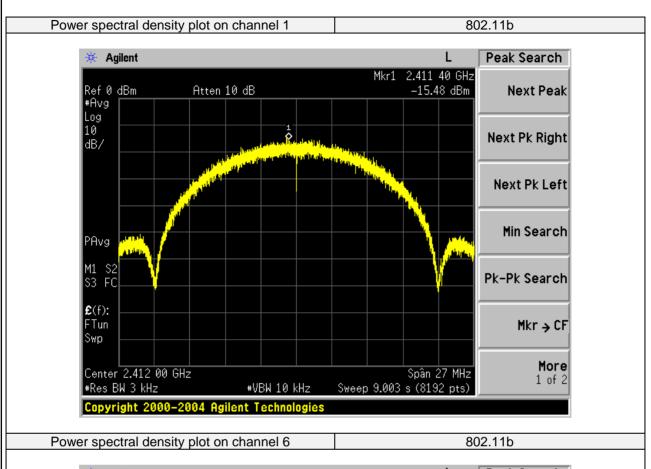


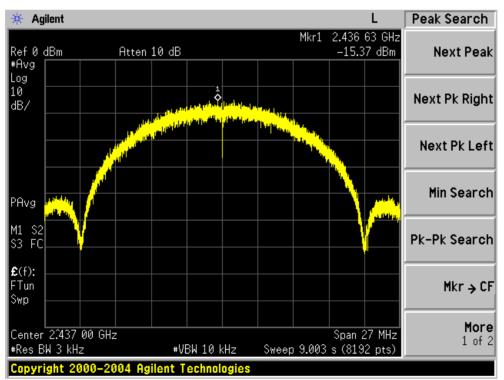
7.7.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

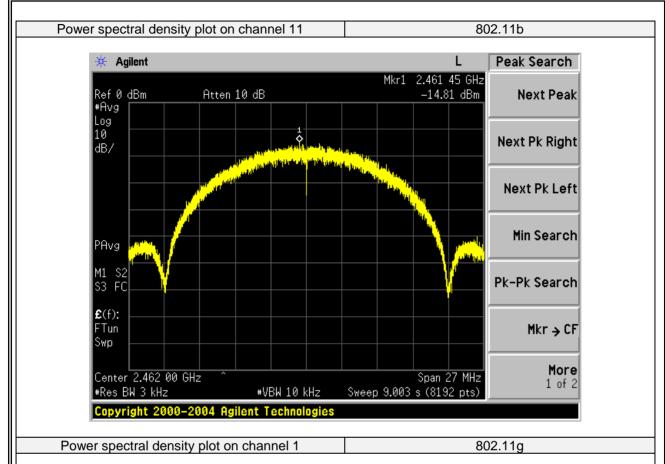
Test Channel	Frequency (MHz)	Duty Cycle Factor(dB)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Verdict		
	802.11b						
1	2412	0.187	-15.293	8	PASS		
6	2437	0.187	-15.183	8	PASS		
11	2462	0.187	-14.623	8	PASS		
	802.11g						
1	2412	0.746	-19.424	8	PASS		
6	2437	0.746	-18.604	8	PASS		
11	2462	0.746	-17.584	8	PASS		
	802.11n HT20						
1	2412	1.203	-25.732	8	PASS		
6	2437	1.203	-26.378	8	PASS		
11	2462	1.203	-27.317	8	PASS		
	802.11n HT40						
3	2422	1.249	-22.541	8	PASS		
6	2437	1.249	-22.871	8	PASS		
9	2452	1.249	-22.781	8	PASS		

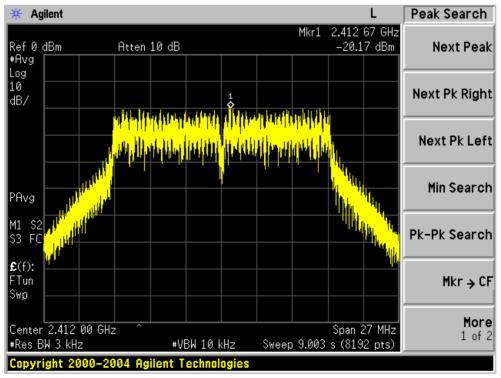




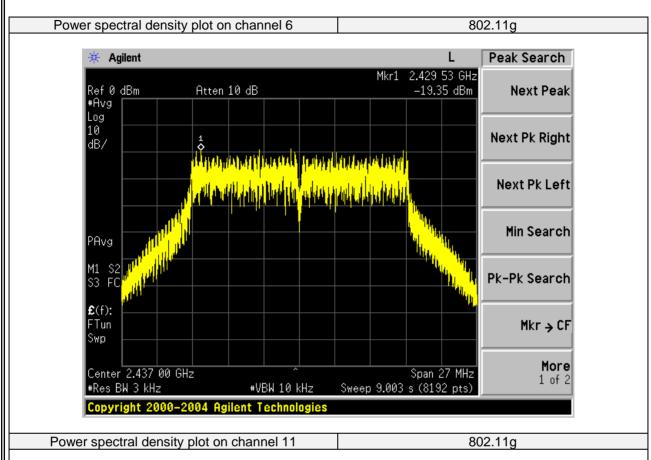


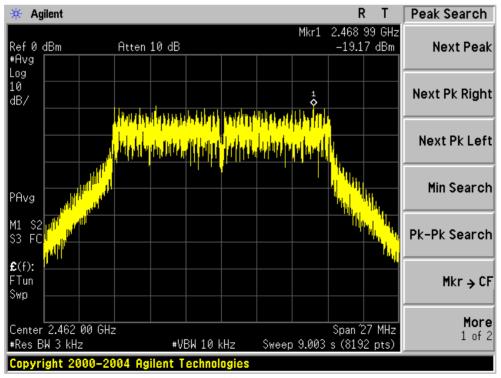




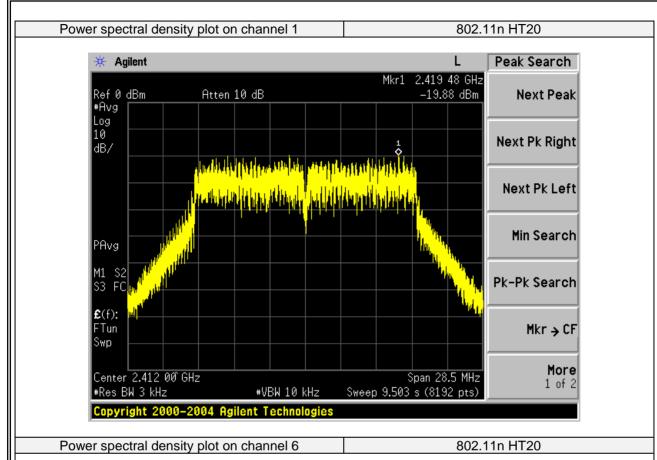


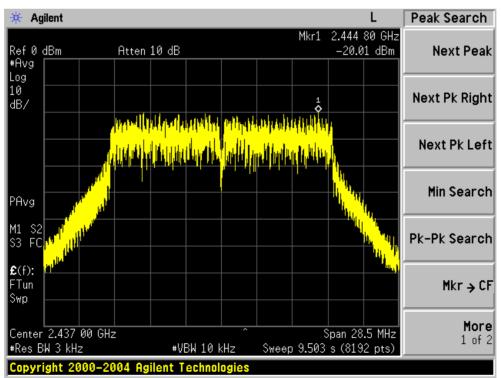




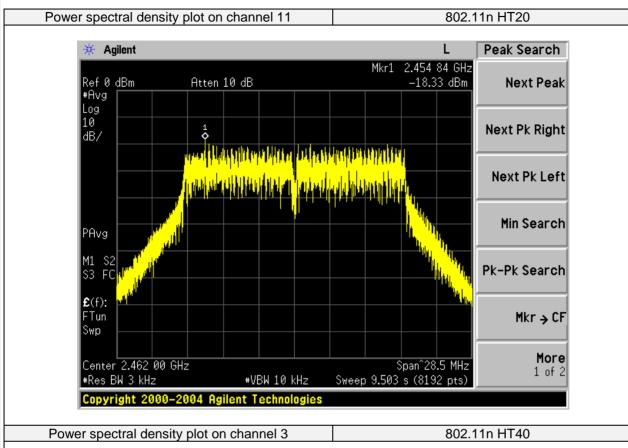


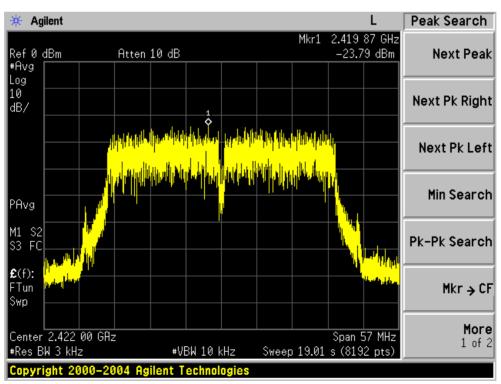




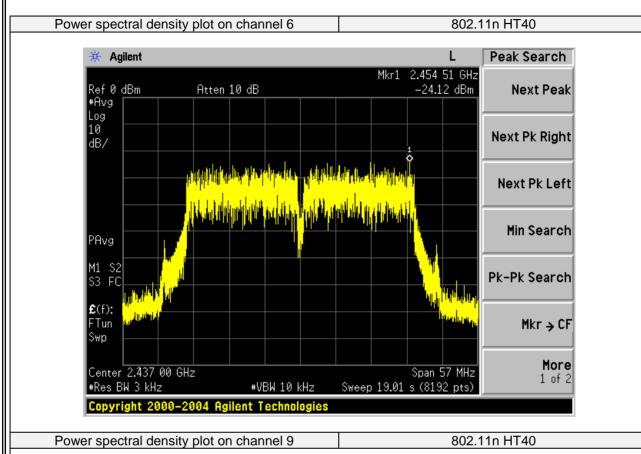


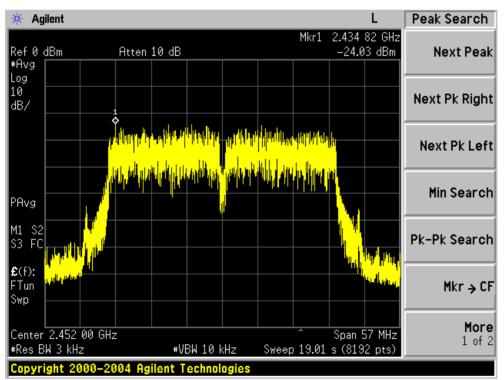














7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 DTS 01 Meas. Guidance v03r04

7.8.2 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.

7.8.3 Measuring Instruments

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

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r04.

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.

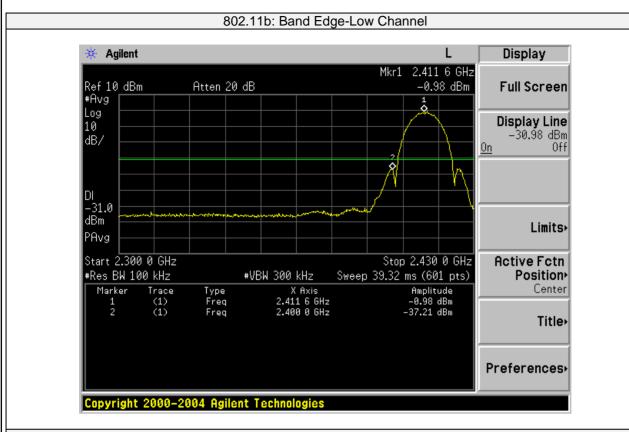
Repeat above procedures until all measured frequencies were complete.



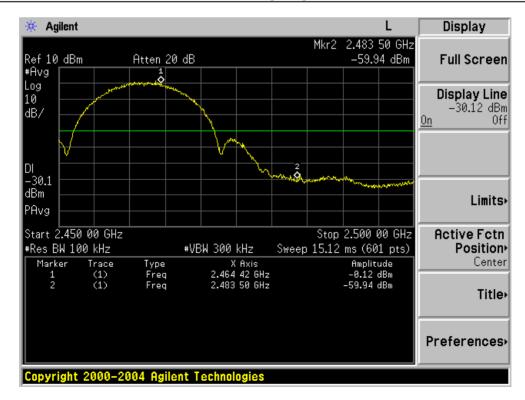
7.8.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4/Mode5	Test By:	Susan Su

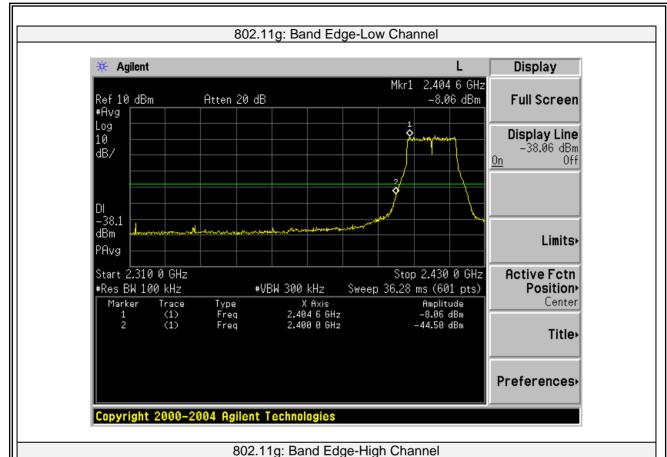


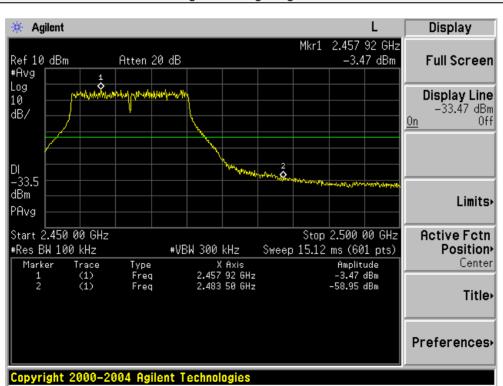




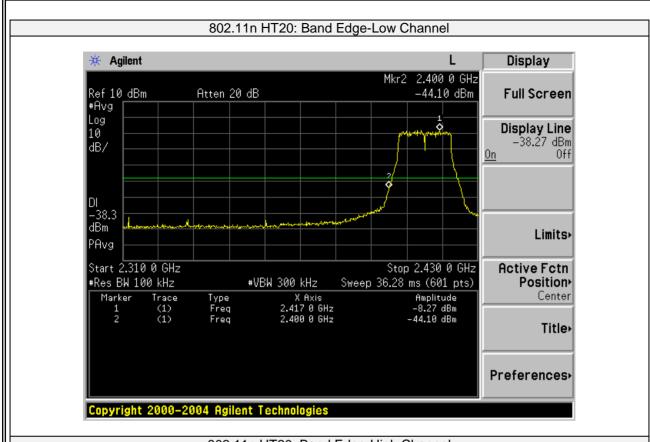


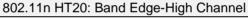


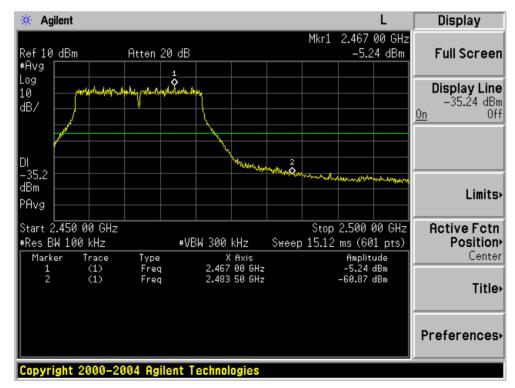




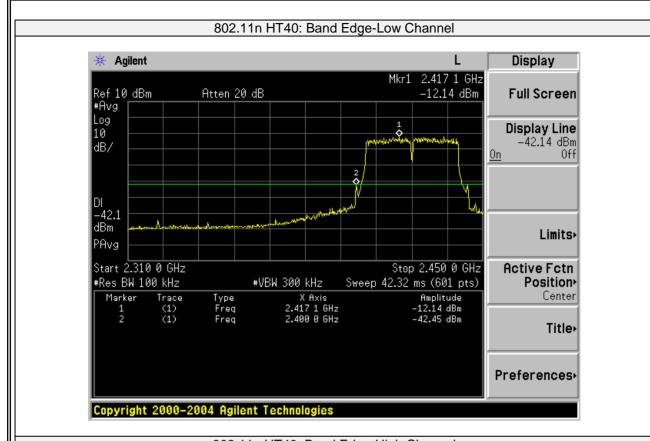




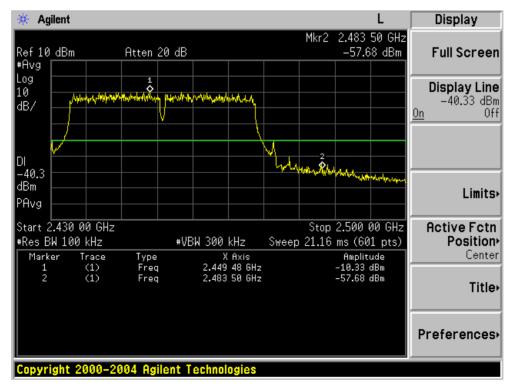














7.9 ANTENNA APPLICATION

7.9.1 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.

7.9.2 **Result**

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

END OF REPORT