



FCC RADIO TEST REPORT

FCC ID:OX6VB70APRO

Product : Tablet PC

Trade Name : ViewSonic

Model Name : VB70a Pro

Serial Model : N/A

Report No. : NTEK- 2012DC1029014F

Prepared for

ViewMate Electronic Technology Limited

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : ViewMate Electronic Technology Limited
Address : 6F, Building L, Section E, Block71, Baoan District,
 Shenzhen, China
Manufacture's Name..... : ViewMate Electronic Technology Limited
Address : 6F, Building L, Section E, Block71, Baoan District,
 Shenzhen, China

Product description

Product name : Tablet PC
Model and/or type reference : VB70a Pro
Serial Model : N/A

Standards : FCC Part15.247

Test procedure ANSI C63.4-2003

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

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Date of Test

Date (s) of performance of tests : Nov. 15, 2012 ~ Oct. 29, 2012

Date of Issue..... : Nov. 15, 2012

Test Result..... : **Pass**

Testing Engineer : Jason Chen
 (Jason Chen)

Technical Manager : Tom Zhang
 (Tom Zhang)

Authorized Signatory : Bovey Yang
 (Bovey Yang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

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

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

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC	
Trade Name	ViewSonic	
Model Name	VB70a Pro	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Tablet PC	
	Operation Frequency:	2412~2462 MHz
	Modulation Type:	802.11b: DQPSK, DBPSK, CCK 802.11g/n: OFDM/64-QAM, 16-QAM, QPSK, BPSK
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 72.2/65/58.5/57.8/52/43.3/39/28.9/26/21.7/19.5/14.4/13/7.2/6.5Mbps
	Number Of Channel	11 CH, Please see Note 2.
	Antenna Designation:	Please see Note 3.
	Output Power(Conducted):	802.11b: 20.02 dBm (Max.) 802.11g: 21.02 dBm (Max.) 802.11n(20M) : 18.95 dBm (Max.)
	Antenna Gain (dBi)	3.0dBi
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an Portable Intentional Radiator Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 2.	
Ratings	DC 5V From Adapter AC 120V/60Hz	
Adapter	Model: BSC15-050200-ED, AC Power Input: 100-240V~, 50/60Hz, 0.5A Output: 5.0V  2000mA	
Battery	DC 3.7V	

Note:

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

2.

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	FPCB	N/A	3.0	N/A

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11, 1 Mbps data rate
Mode 2	802.11g CH1/ CH6/ CH11, 6 Mbps data rate
Mode 3	802.11n(20) CH1/ CH6/ CH11, 6.5 Mbps data rate
Mode 4	NORMAL LINK

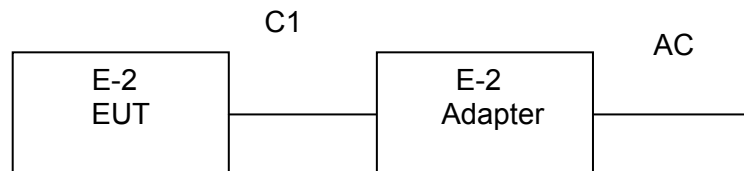
For Conducted Emission	
Final Test Mode	Description
Mode 4	NORMAL LINK

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11, 1 Mbps data rate
Mode 2	802.11g CH1/ CH6/ CH11, 6 Mbps data rate
Mode 3	802.11n(20) CH1/ CH6/ CH11, 6.5 Mbps data rate

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) The test results is to use the lowest bit rate, is the worst.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC	N/A	VB70a Pro	N/A	EUT
E-2	Adapter	N/A	BSC15-050200-ED	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	DC Line

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2013
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2013
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2013
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2013
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2013
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2013
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2013
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2013
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2013
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2013

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2013
2	LISN	R&S	ENV216	101313	Jul. 06. 2013
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2013
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2013
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2013
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2013

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

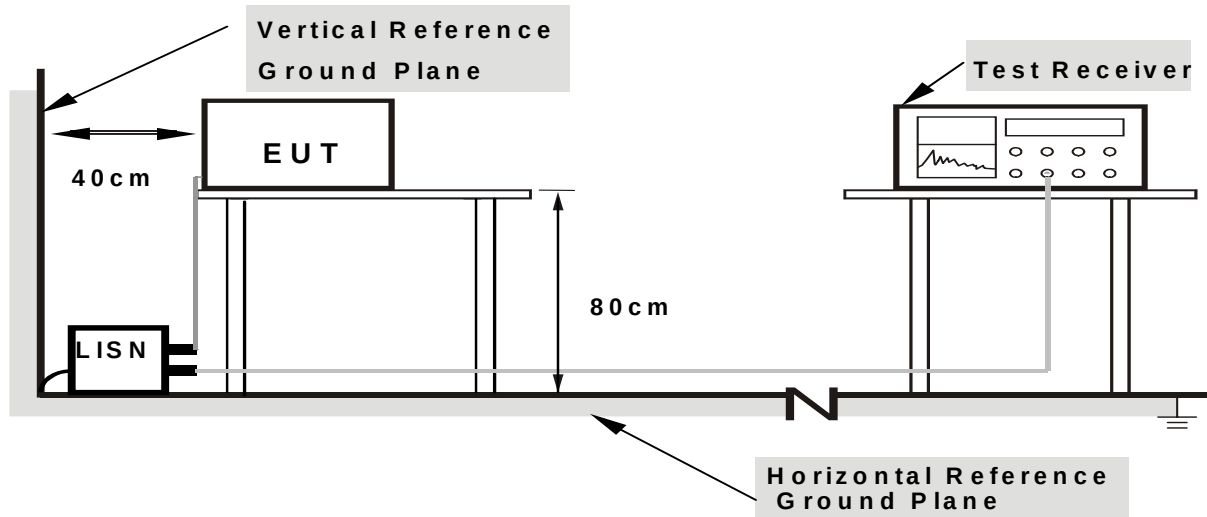
3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

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

3.1.5 EUT OPERATING CONDITIONS

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

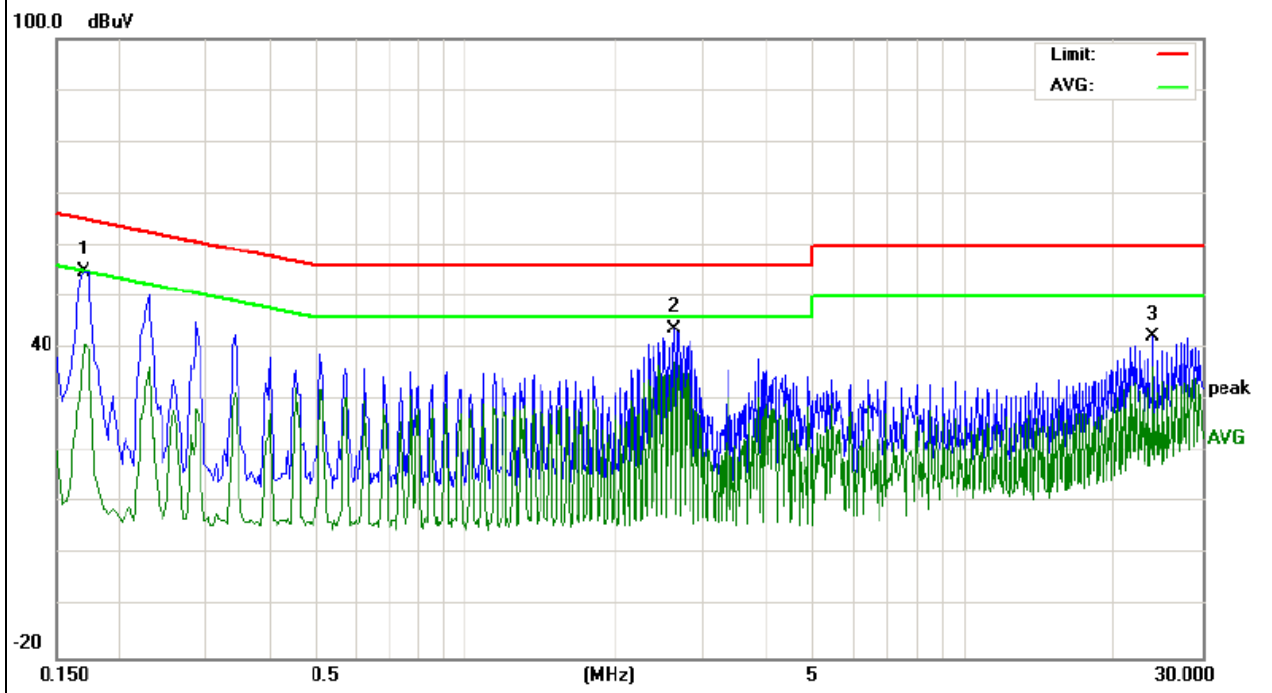
3.1.6 TEST RESULTS

EUT :	Tablet PC	Model Name. :	VB70a Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V From Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	45.06	9.80	54.86	64.96	-10.10	QP
2.6180	33.57	10.27	43.84	56.00	-12.16	QP
24.0020	31.51	10.60	42.11	60.00	-17.89	QP
0.1700	31.05	9.80	40.85	54.96	-14.11	AVG
2.6180	27.28	10.27	37.55	46.00	-8.45	AVG

Remark:

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



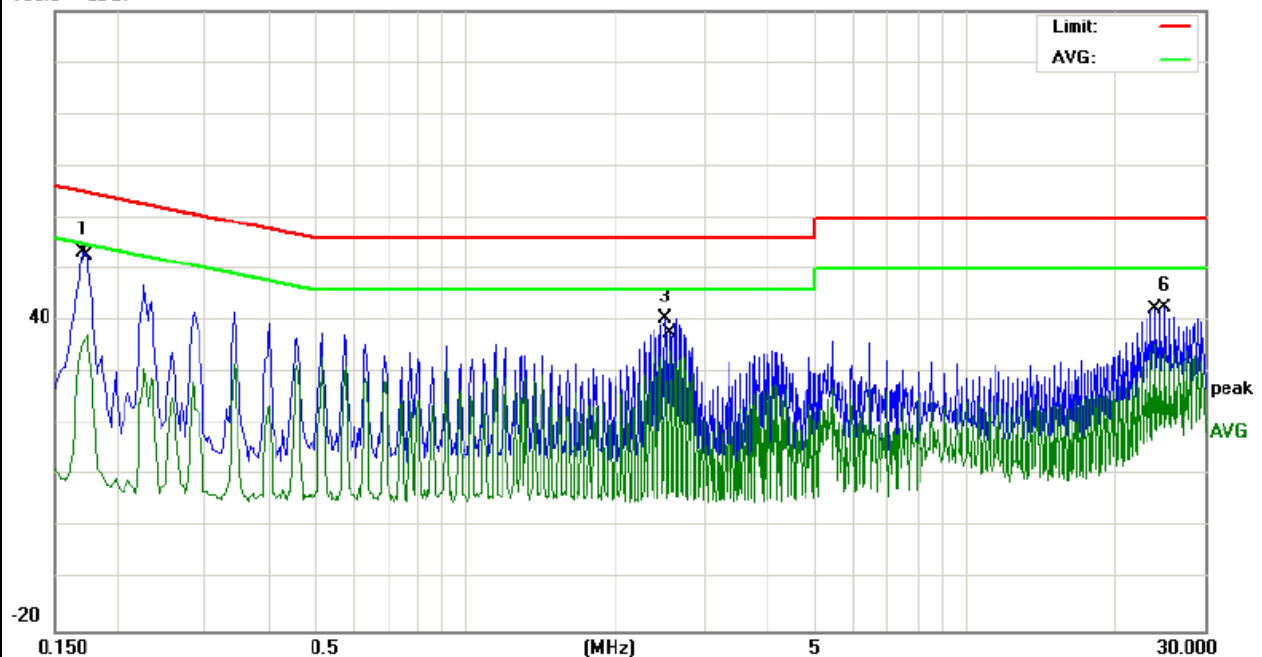
EUT :	Tablet PC	Model Name. :	VB70a Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V From Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1700	43.48	9.97	53.45	64.96	-11.51	QP
0.1749	25.35	10.01	35.36	54.72	-19.36	AVG
2.5100	30.23	10.26	40.49	56.00	-15.51	QP
2.5660	23.90	10.27	34.17	46.00	-11.83	AVG
23.9660	24.81	10.57	35.38	50.00	-14.62	QP
25.0020	32.04	10.53	42.57	60.00	-17.43	QP

Remark:

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

100.0 dBμV



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted 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

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

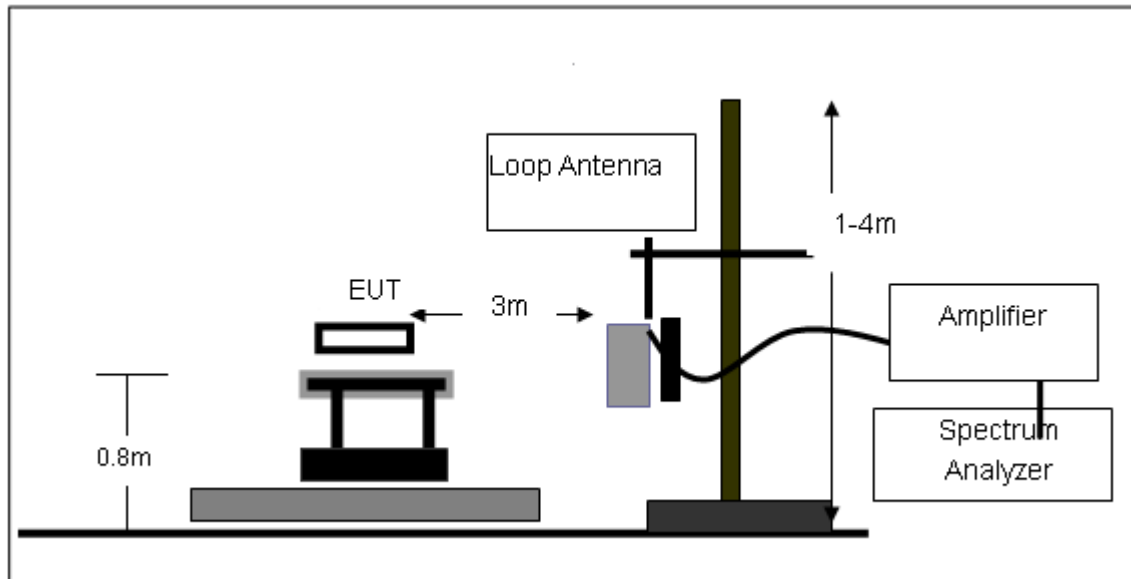
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

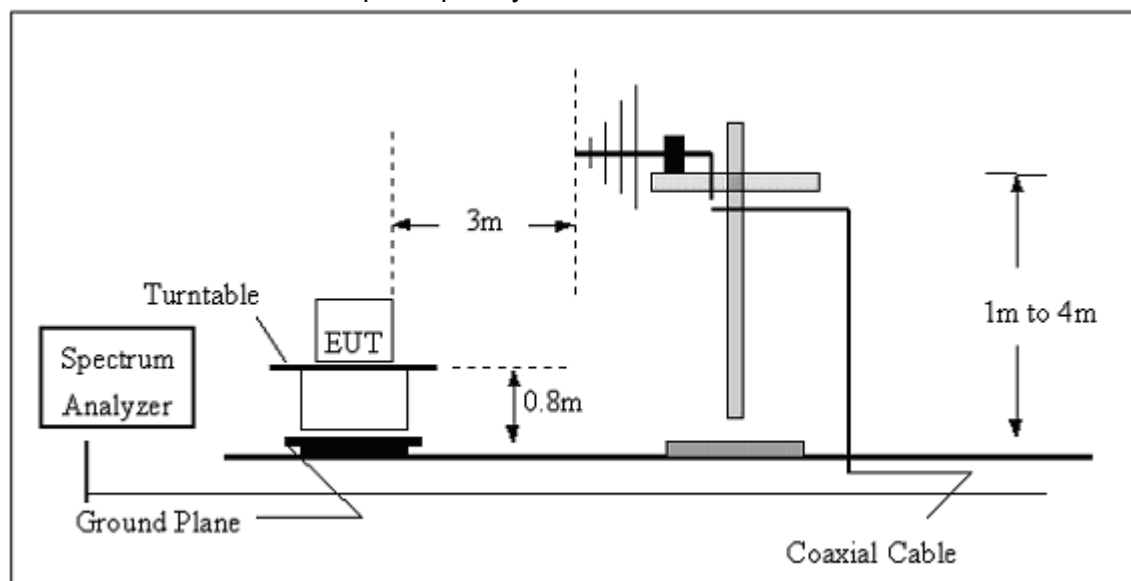
No deviation

3.2.4 TEST SETUP

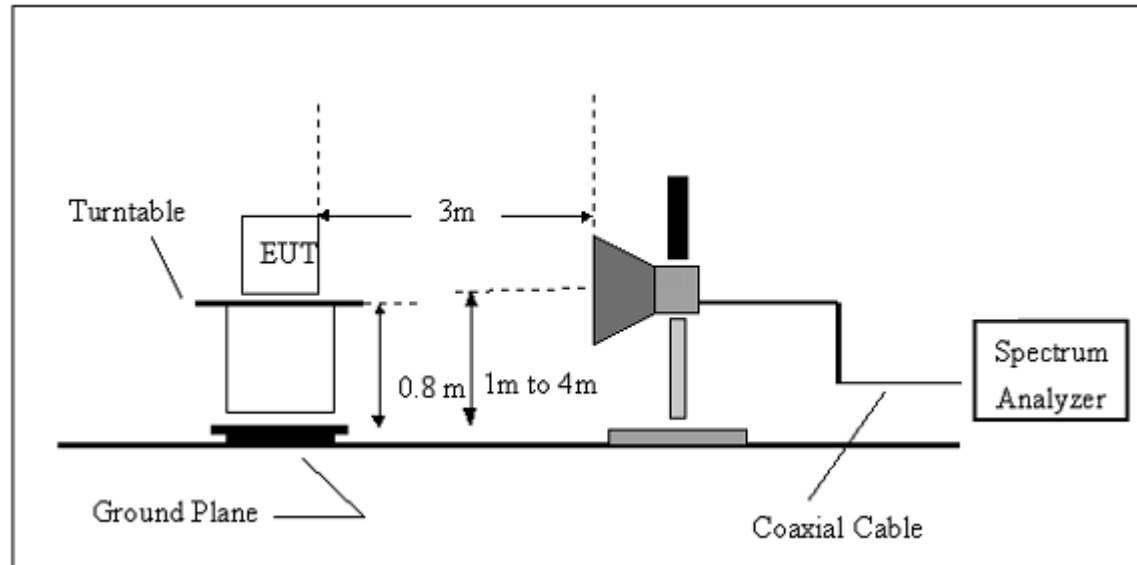
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 1GHz

**3.2.5 EUT OPERATING CONDITIONS**

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

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	Tablet PC	Model Name. :	VB70a Pro
Temperature:	20 °C	Relative Humidity:	49%
Pressure:	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

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

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})(\text{dB})$;

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

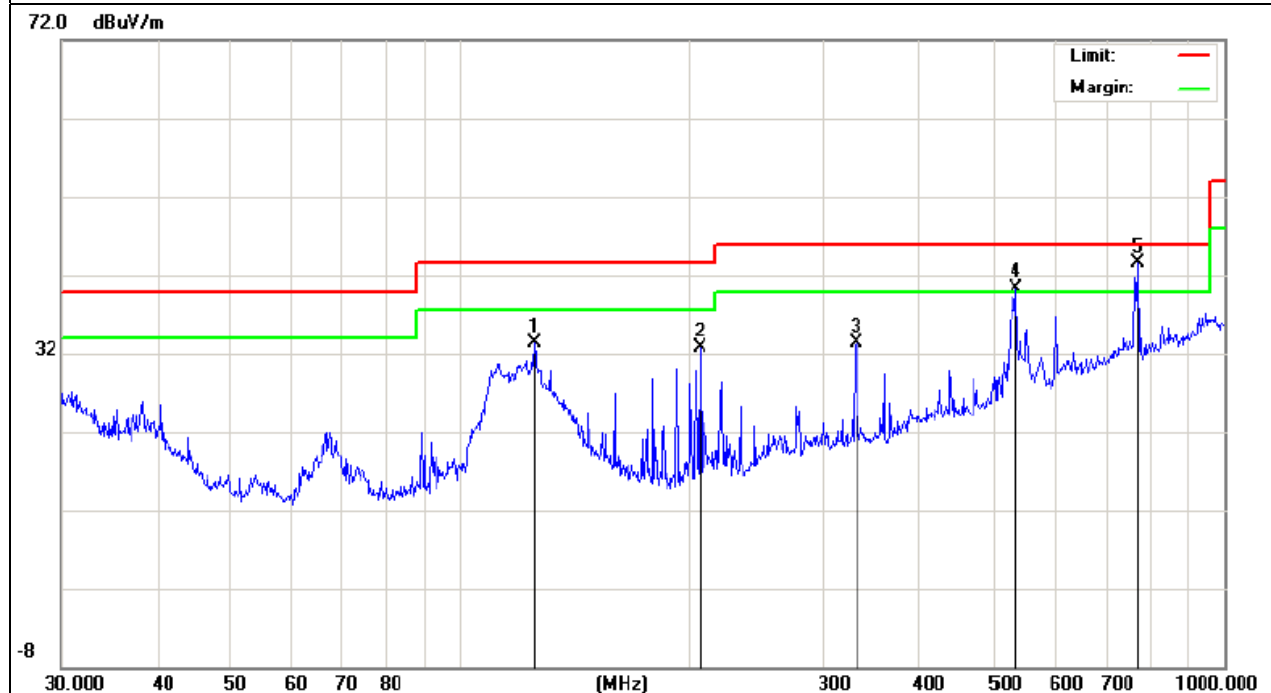
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
125.0066	21.05	12.21	33.26	43.50	-10.24	Peak
206.3976	23.24	9.38	32.62	43.50	-10.88	Peak
330.1949	17.54	15.85	33.39	46.00	-12.61	Peak
531.9634	18.85	21.39	40.24	46.00	-5.76	Peak
771.4486	17.28	26.16	43.44	46.00	-2.56	Peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

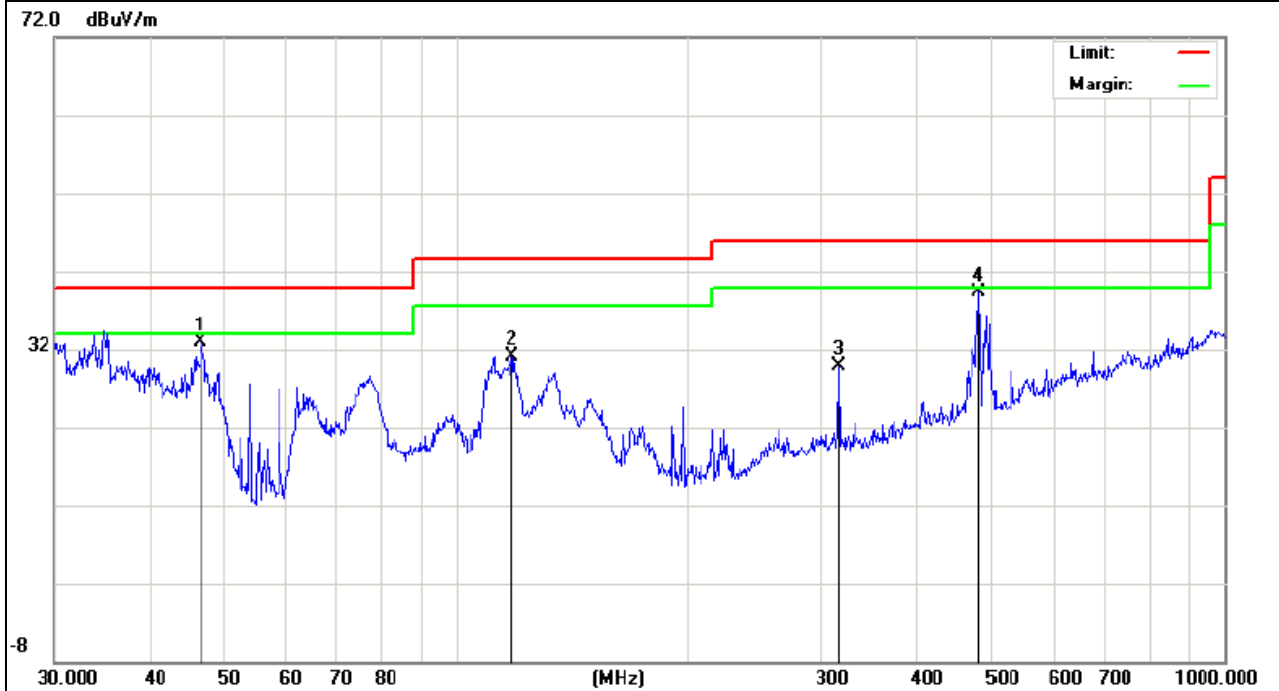


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	49%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
46.5030	23.14	9.84	32.98	40.00	-7.02	Peak
118.1862	19.43	11.74	31.17	43.50	-12.33	Peak
315.4808	15.34	14.66	30.00	46.00	-16.00	Peak
480.5276	20.61	18.72	39.33	46.00	-6.67	Peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



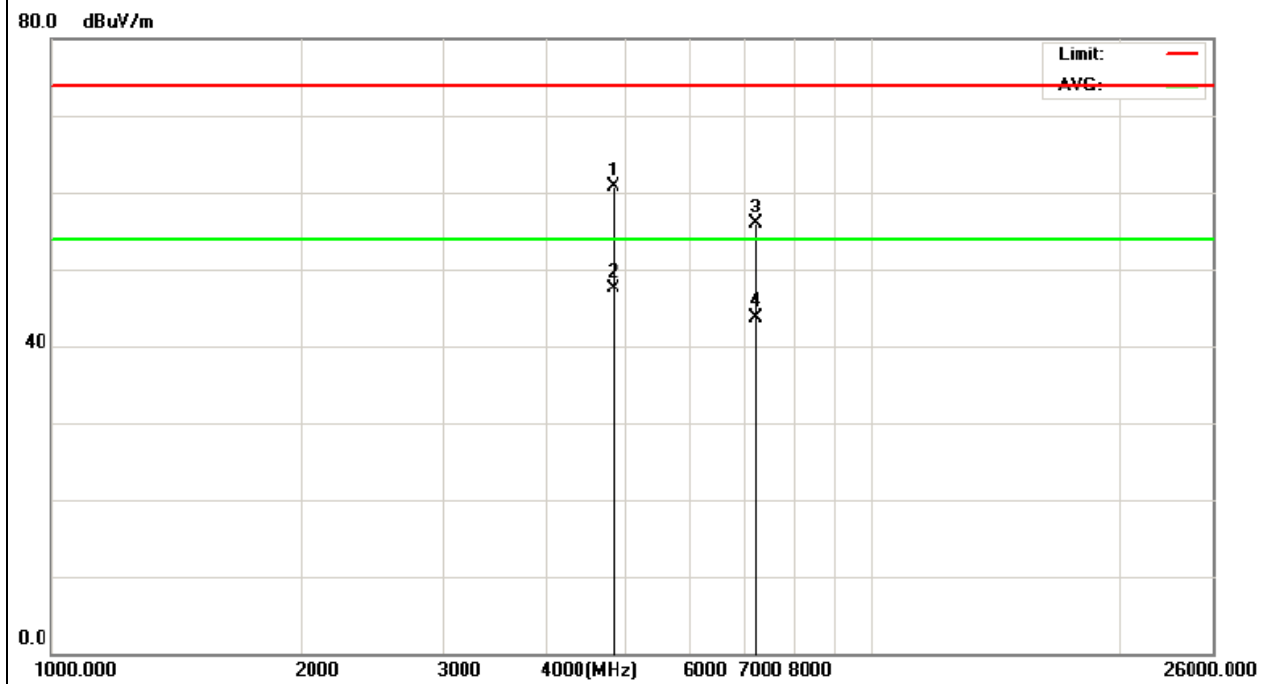
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	21 °C	Relative Humidity :	50%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.000	64.35	-3.60	60.75	74.00	-13.25	peak
4824.000	51.06	-3.60	47.46	54.00	-6.54	AVG
7326.000	56.91	-1.02	55.89	74.00	-18.11	peak
7326.000	44.75	-1.02	43.73	54.00	-10.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

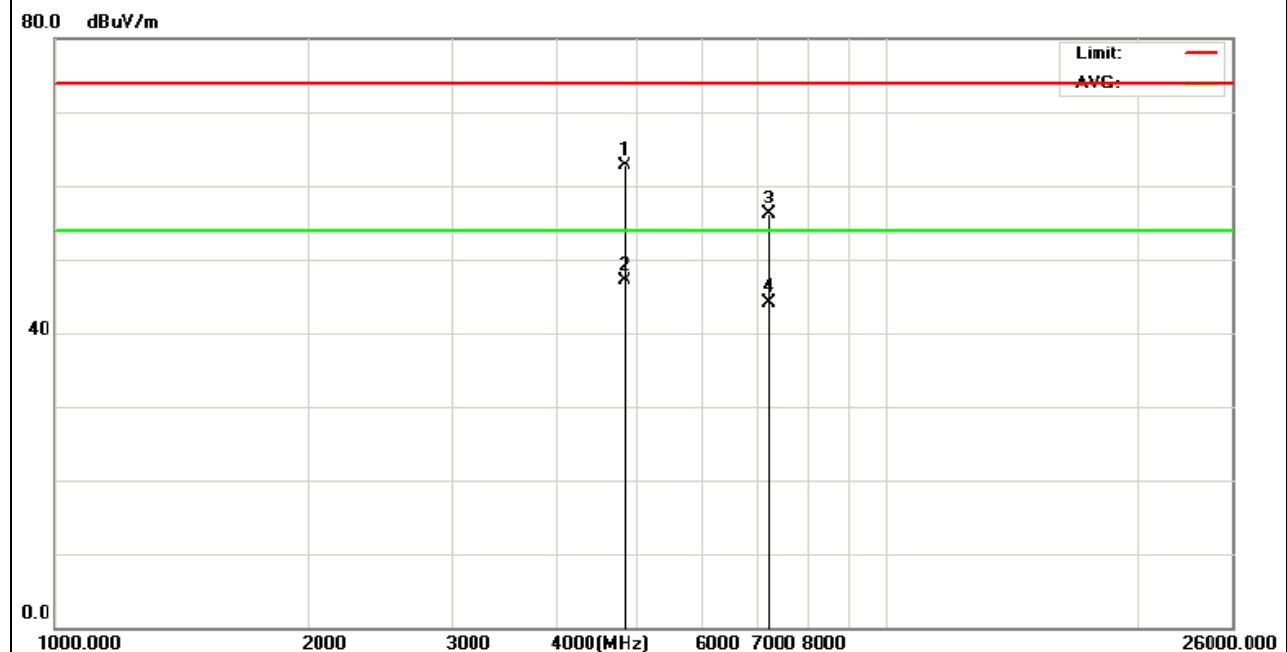


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.000	66.28	-3.60	62.68	74.00	-11.32	peak
4824.000	50.61	-3.60	47.01	54.00	-6.99	AVG
7326.000	57.13	-1.02	56.11	74.00	-17.89	peak
7326.000	45.09	-1.02	44.07	54.00	-9.93	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

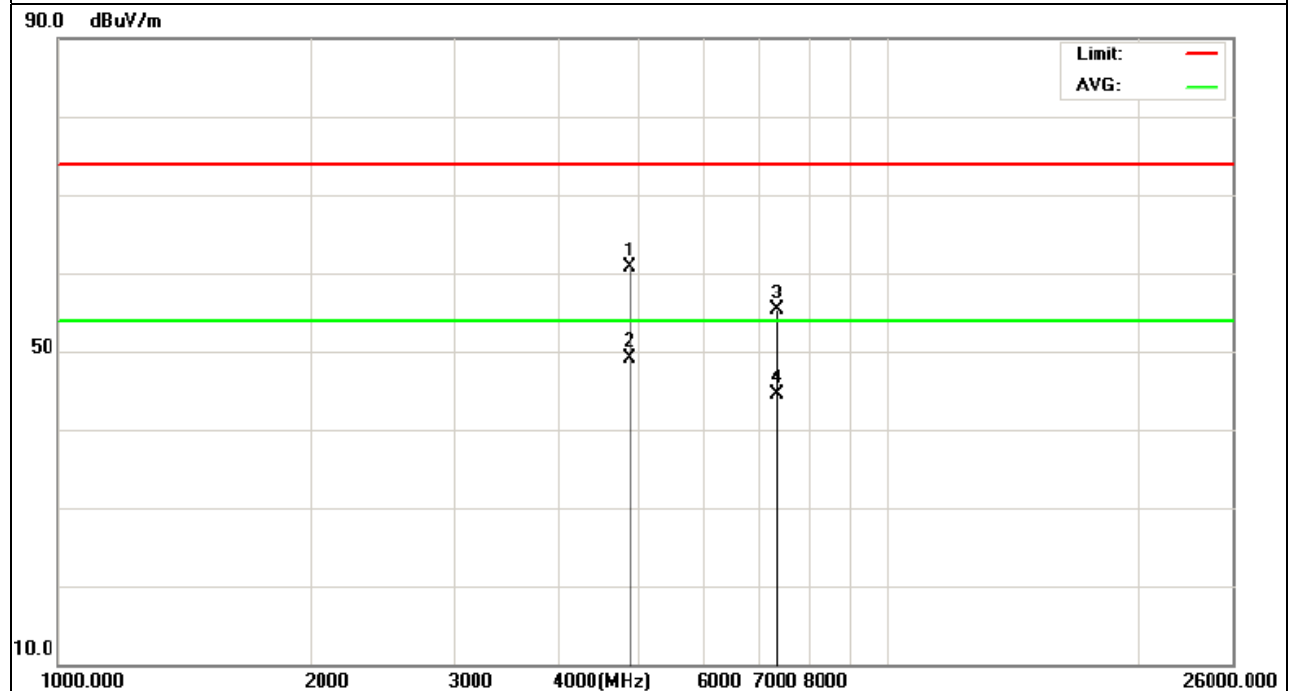


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	64.39	-3.64	60.75	74.00	-13.25	peak
4874.000	52.71	-3.64	49.07	54.00	-4.93	AVG
7311.000	56.19	-0.80	55.39	74.00	-18.61	peak
7311.000	45.39	-0.80	44.59	54.00	-9.41	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

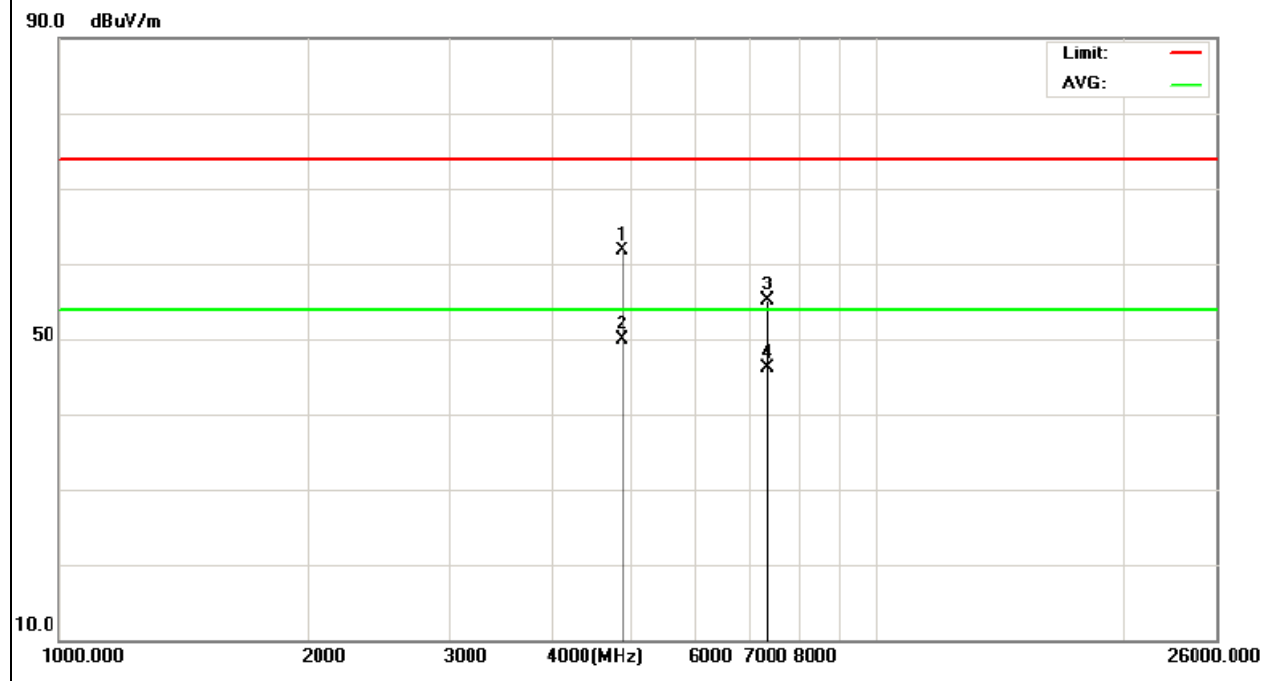


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	65.31	-3.64	61.67	74.00	-12.33	peak
4874.000	53.46	-3.64	49.82	54.00	-4.18	AVG
7311.000	55.91	-0.80	55.11	74.00	-18.89	peak
7311.000	46.82	-0.80	46.02	54.00	-7.98	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

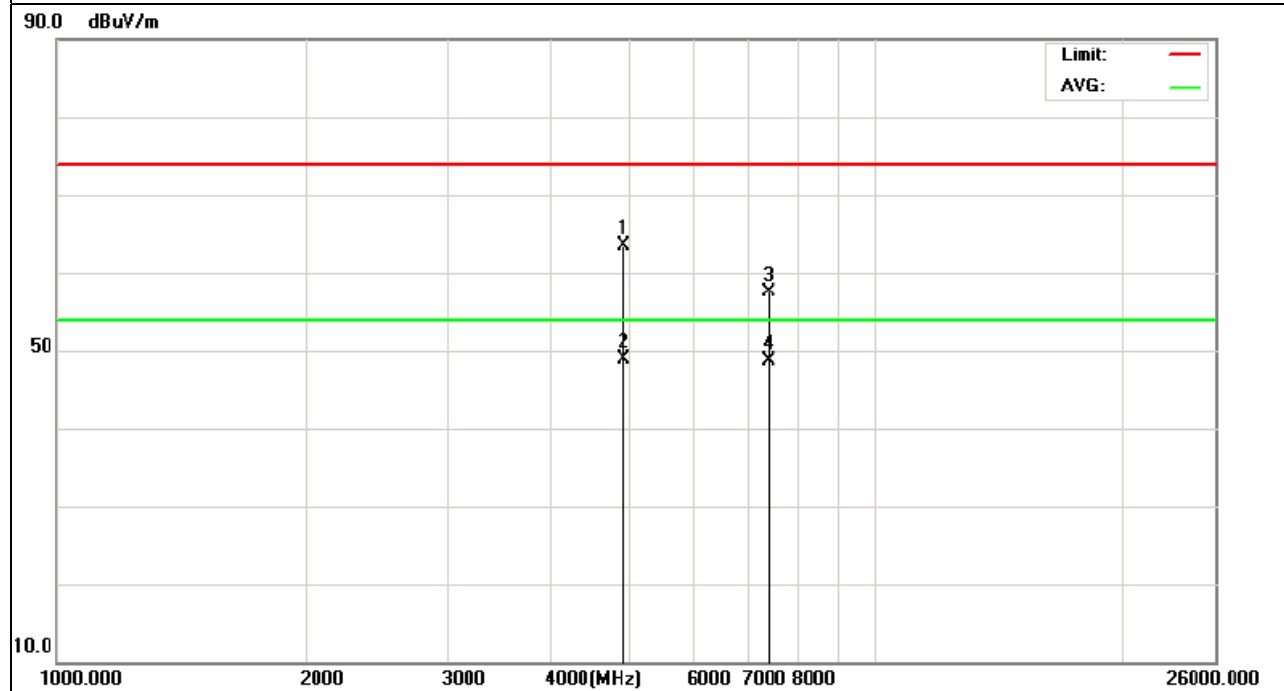


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	67.19	-3.66	63.53	74.00	-10.47	peak
4924.000	52.61	-3.66	48.95	54.00	-5.05	AVG
7386.000	58.61	-1.03	57.58	74.00	-16.42	peak
7386.000	49.67	-1.03	48.64	54.00	-5.36	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

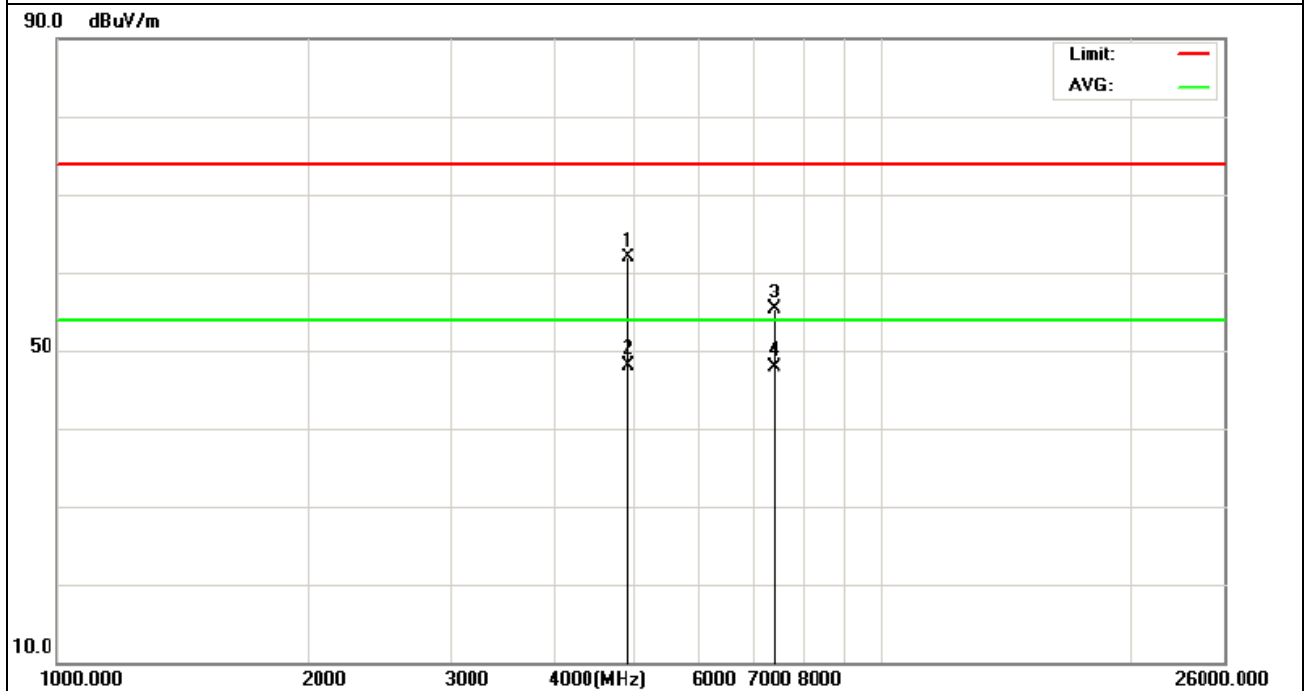


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	65.48	-3.66	61.82	74.00	-12.18	peak
4924.000	51.72	-3.66	48.06	54.00	-5.94	AVG
7386.000	56.39	-1.03	55.36	74.00	-18.64	peak
7386.000	48.97	-1.03	47.94	54.00	-6.06	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

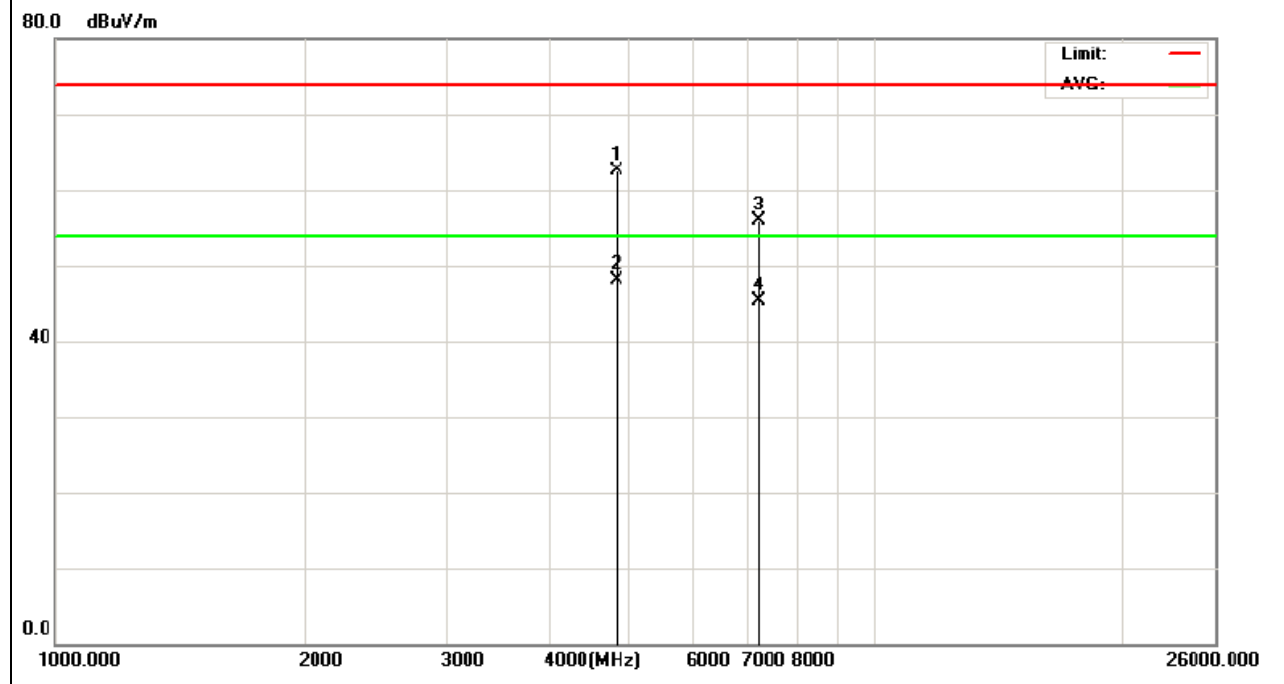


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.000	66.03	-3.60	62.43	74.00	-11.57	peak
4824.000	51.67	-3.60	48.07	54.00	-5.93	AVG
7326.000	56.91	-1.02	55.89	74.00	-18.11	peak
7326.000	46.28	-1.02	45.26	54.00	-8.74	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

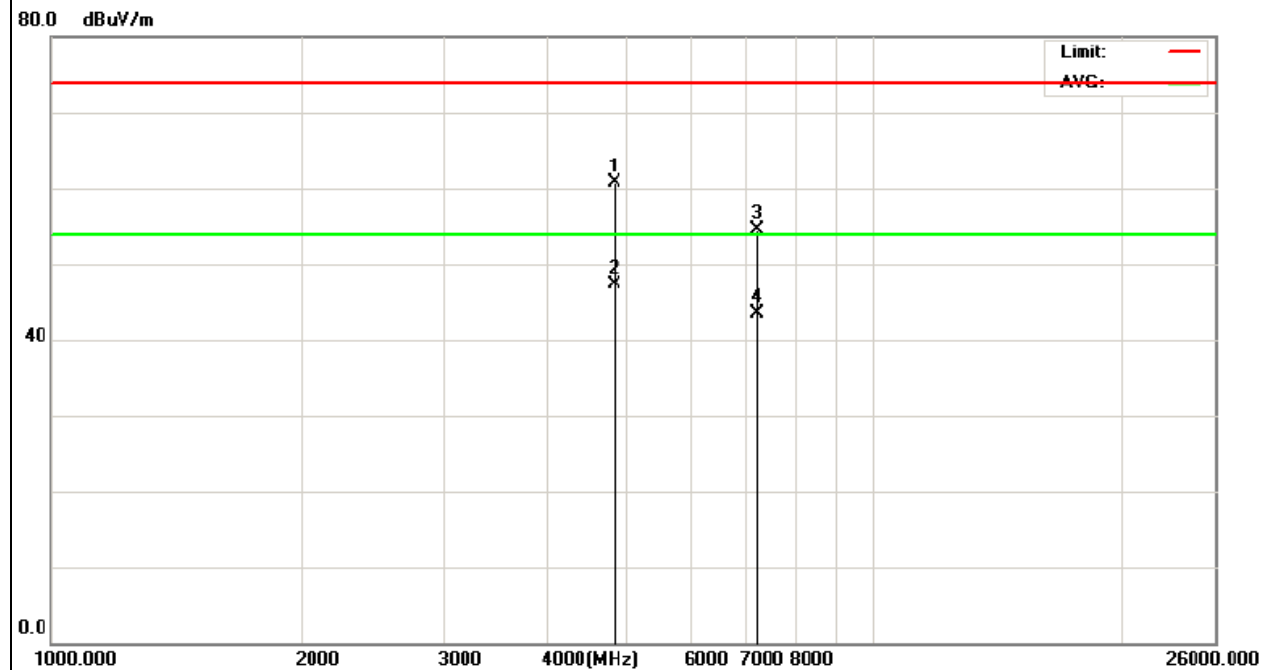


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	22 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.000	64.31	-3.60	60.71	74.00	-13.29	peak
4824.000	50.83	-3.60	47.23	54.00	-6.77	AVG
7326.000	55.46	-1.02	54.44	74.00	-19.56	peak
7326.000	44.61	-1.02	43.59	54.00	-10.41	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

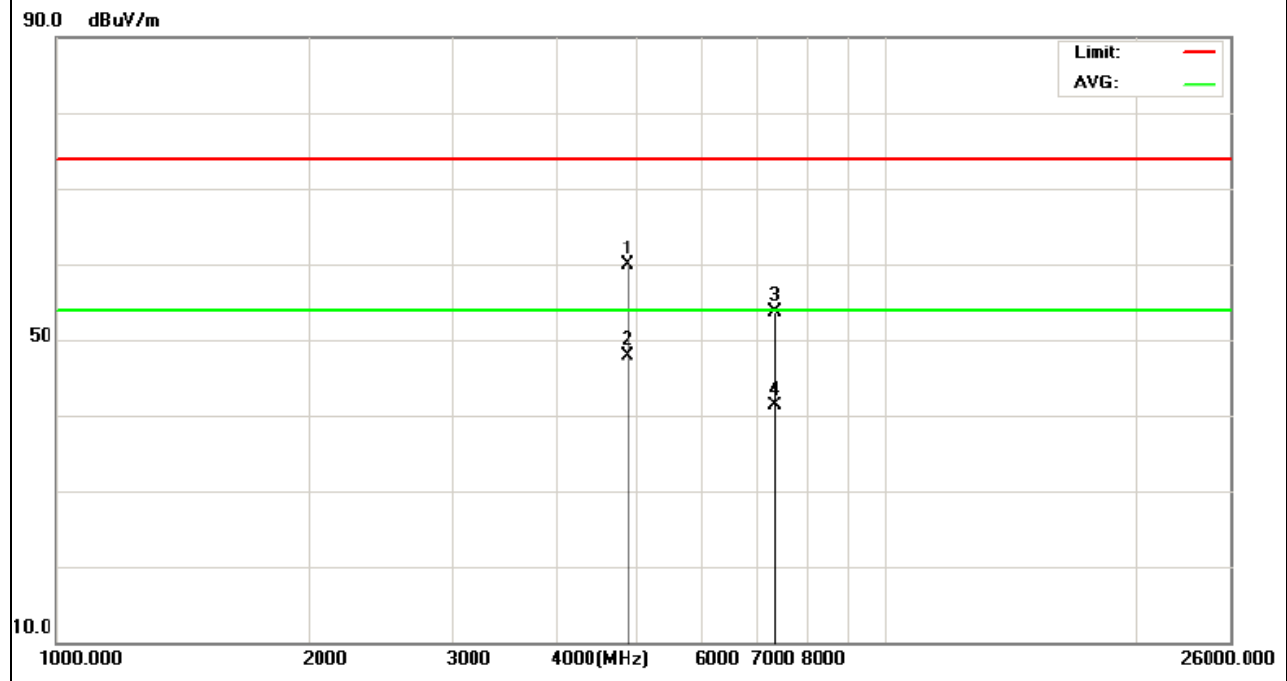


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	63.56	-3.64	59.92	74.00	-14.08	peak
4874.000	51.49	-3.64	47.85	54.00	-6.15	AVG
7311.000	54.60	-0.80	53.80	74.00	-20.20	peak
7311.000	42.17	-0.80	41.37	54.00	-12.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

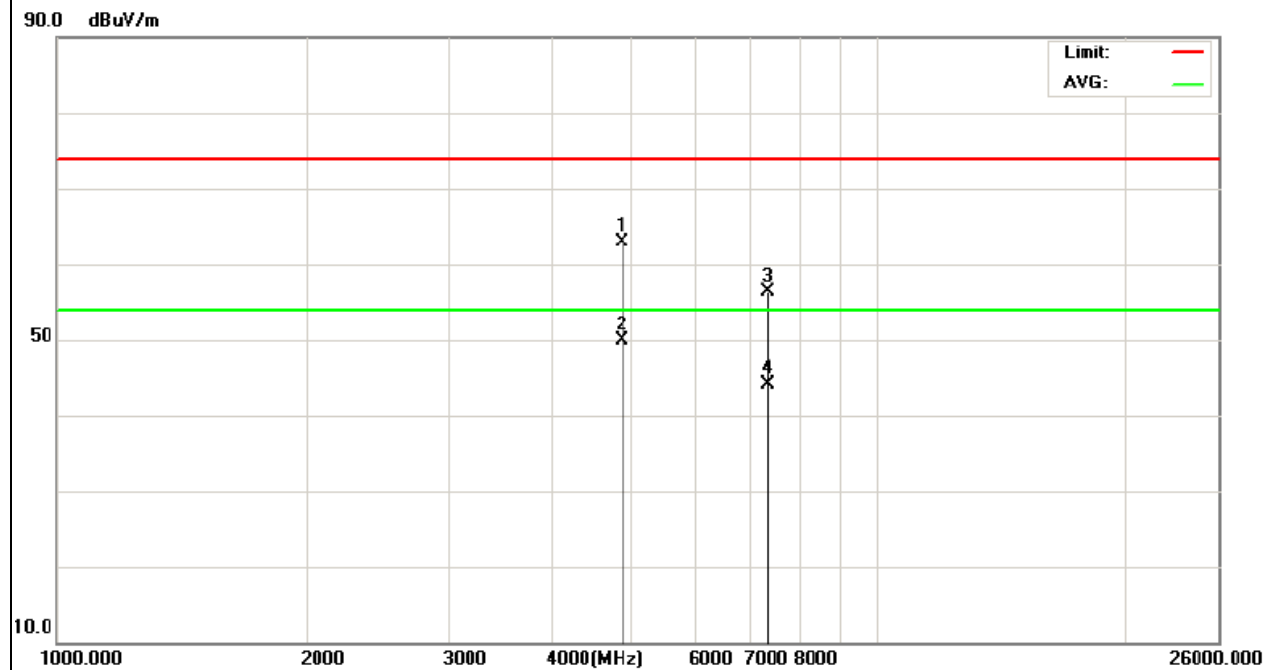


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	66.59	-3.64	62.95	74.00	-11.05	peak
4874.000	53.46	-3.64	49.82	54.00	-4.18	AVG
7311.000	57.16	-0.80	56.36	74.00	-17.64	peak
7311.000	44.81	-0.80	44.01	54.00	-9.99	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

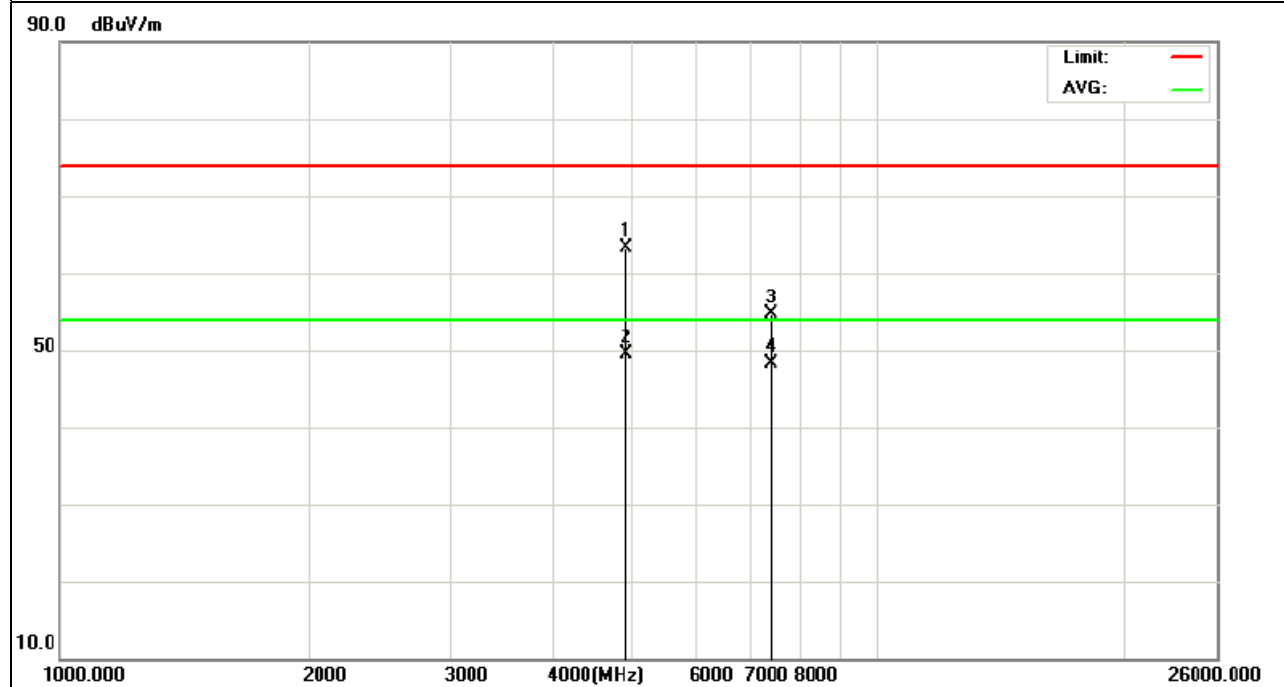


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11 (802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	66.98	-3.66	63.32	74.00	-10.68	peak
4924.000	53.16	-3.66	49.50	54.00	-4.50	AVG
7386.000	55.83	-1.03	54.80	74.00	-19.20	peak
7386.000	49.29	-1.03	48.26	54.00	-5.74	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

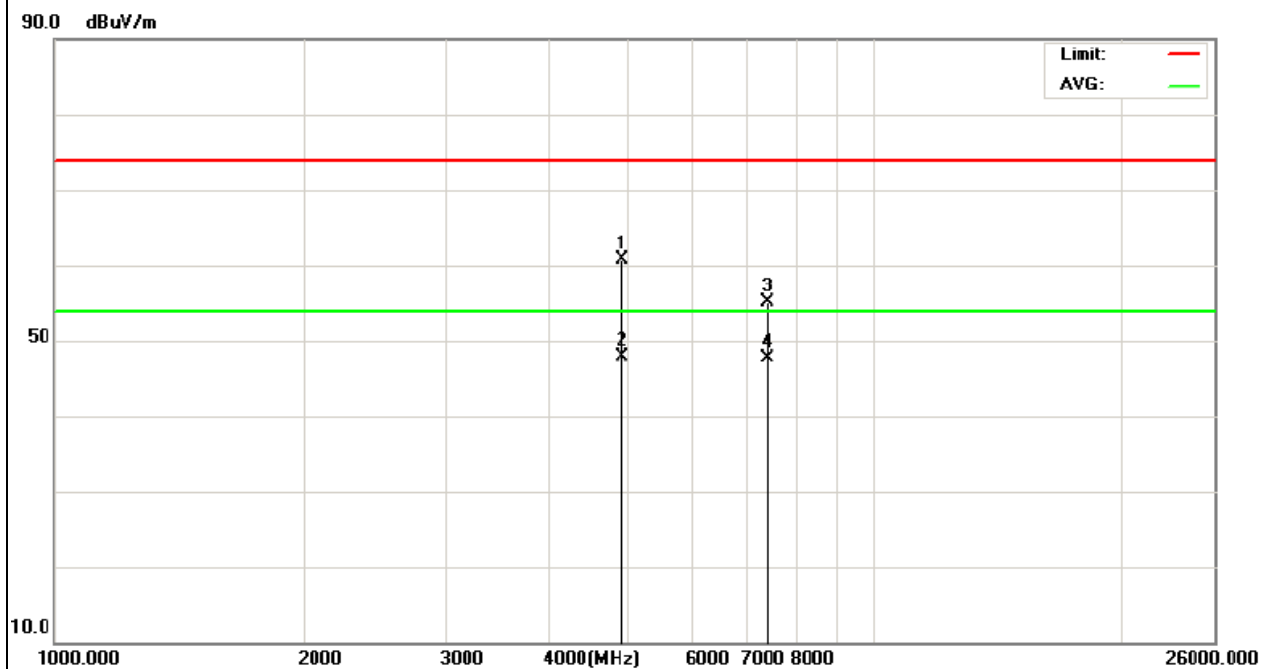


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	64.39	-3.66	60.73	74.00	-13.27	peak
4924.000	51.65	-3.66	47.99	54.00	-6.01	AVG
7386.000	56.23	-1.03	55.20	74.00	-18.80	peak
7386.000	48.81	-1.03	47.78	54.00	-6.22	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

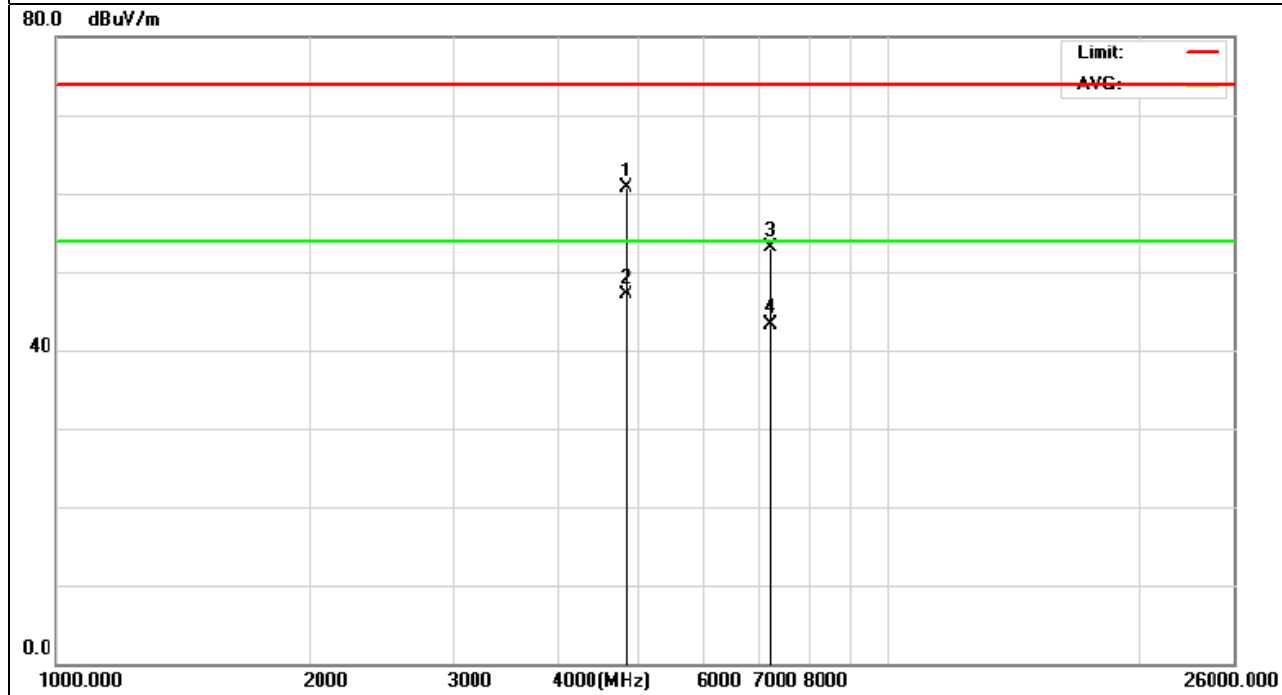


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1 (802.11n/20M Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.000	64.31	-3.60	60.71	74.00	-13.29	peak
4824.000	50.71	-3.60	47.11	54.00	-6.89	AVG
7326.000	54.06	-1.02	53.04	74.00	-20.96	peak
7326.000	44.39	-1.02	43.37	54.00	-10.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

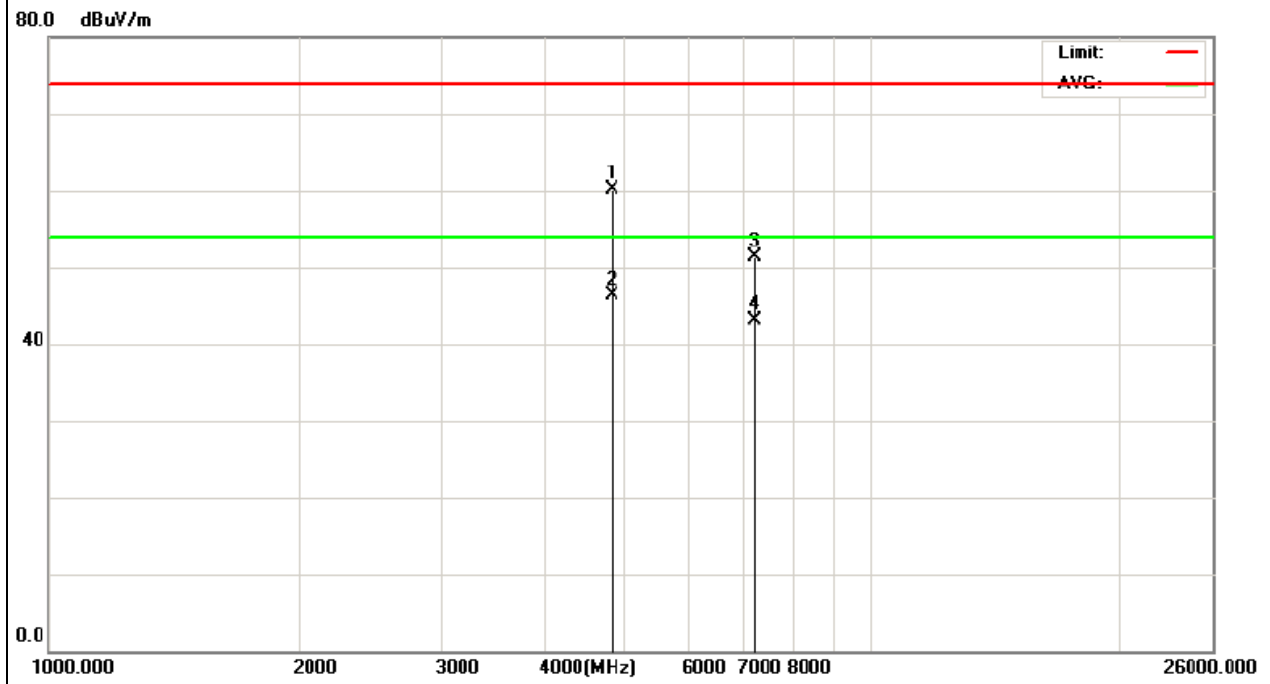


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1 (802.11n/20M Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.000	63.61	-3.60	60.01	74.00	-13.99	peak
4824.000	49.86	-3.60	46.26	54.00	-7.74	AVG
7326.000	52.36	-1.02	51.34	74.00	-22.66	peak
7326.000	44.18	-1.02	43.16	54.00	-10.84	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

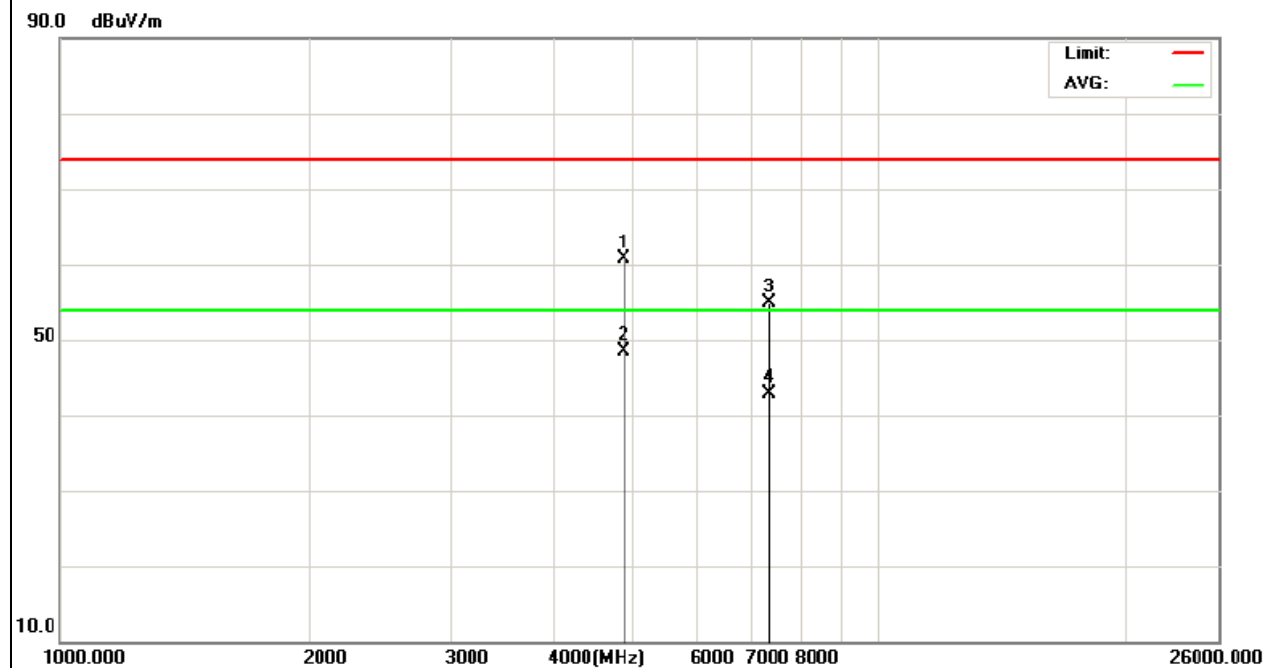


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH6 (802.11n/20M Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	64.36	-3.64	60.72	74.00	-13.28	peak
4874.000	52.19	-3.64	48.55	54.00	-5.45	AVG
7311.000	55.71	-0.80	54.91	74.00	-19.09	peak
7311.000	43.61	-0.80	42.81	54.00	-11.19	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

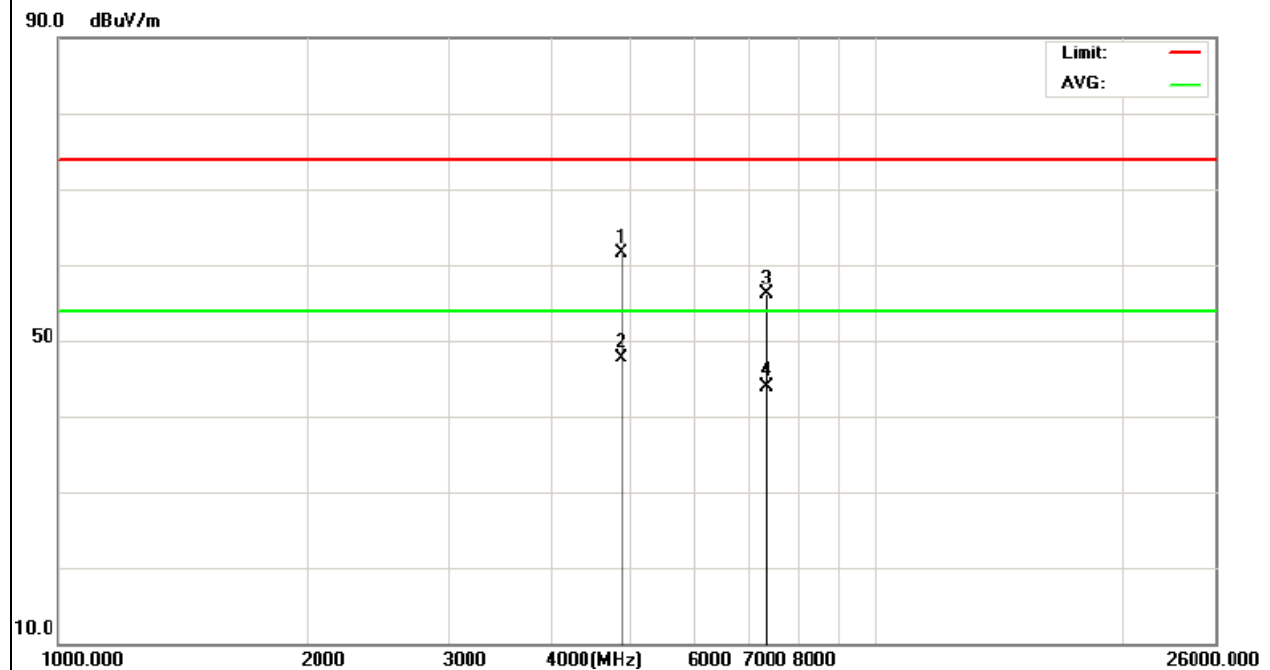


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH6 (802.11n/20M Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.000	65.19	-3.64	61.55	74.00	-12.45	peak
4874.000	51.31	-3.64	47.67	54.00	-6.33	AVG
7311.000	56.81	-0.80	56.01	74.00	-17.99	peak
7311.000	44.68	-0.80	43.88	54.00	-10.12	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

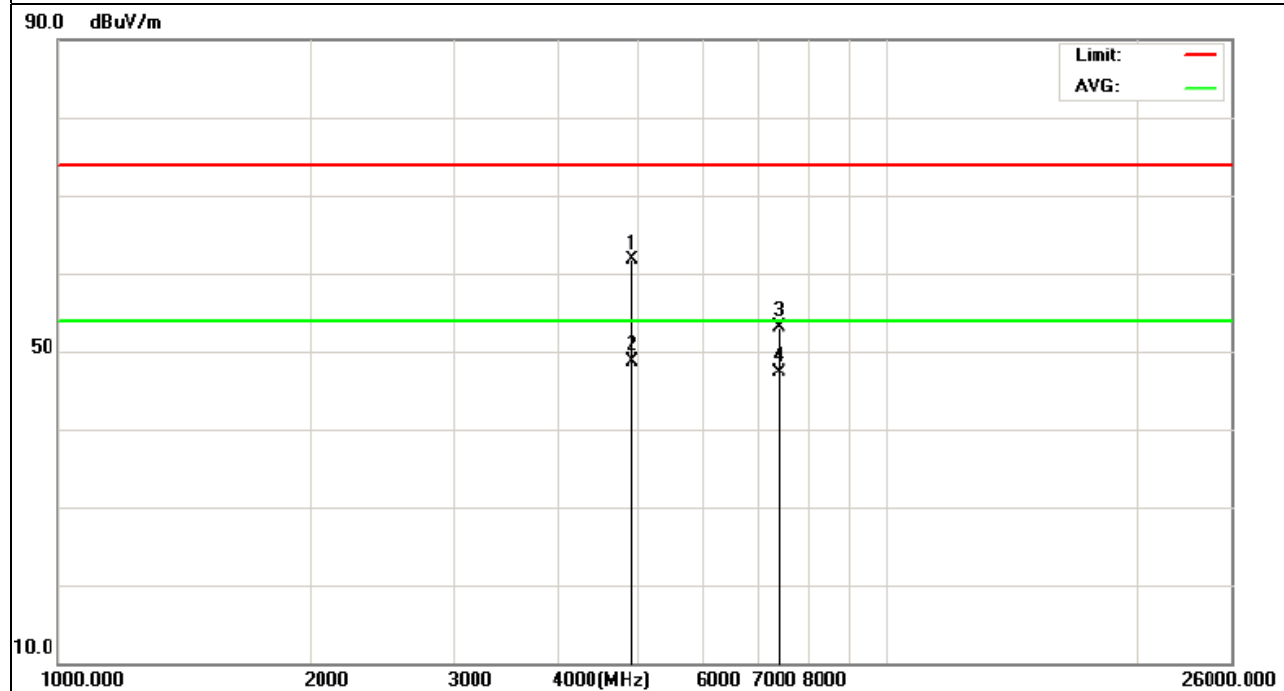


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11 (802.11n/20M Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	65.29	-3.66	61.63	74.00	-12.37	peak
4924.000	52.42	-3.66	48.76	54.00	-5.24	AVG
7386.000	54.18	-1.03	53.15	74.00	-20.85	peak
7386.000	48.34	-1.03	47.31	54.00	-6.69	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

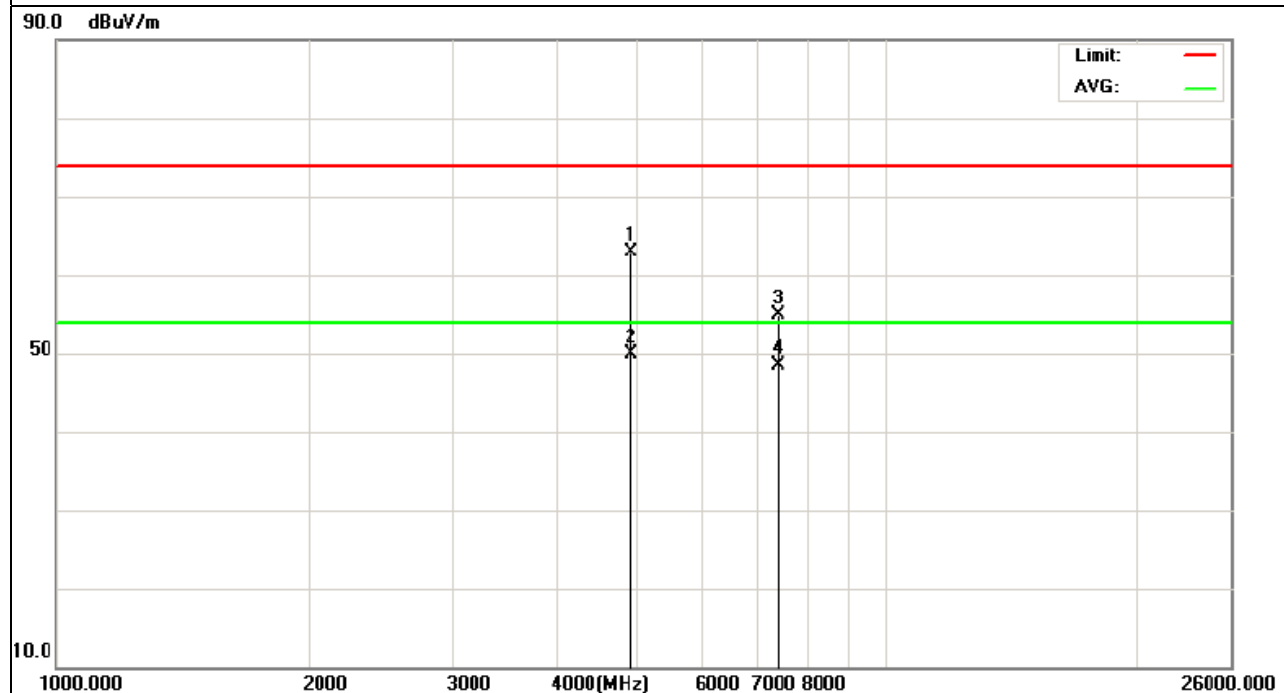


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11 (802.11n/20M Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.000	66.58	-3.66	62.92	74.00	-11.08	peak
4924.000	53.61	-3.66	49.95	54.00	-4.05	AVG
7386.000	55.89	-1.03	54.86	74.00	-19.14	peak
7386.000	49.61	-1.03	48.58	54.00	-5.42	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



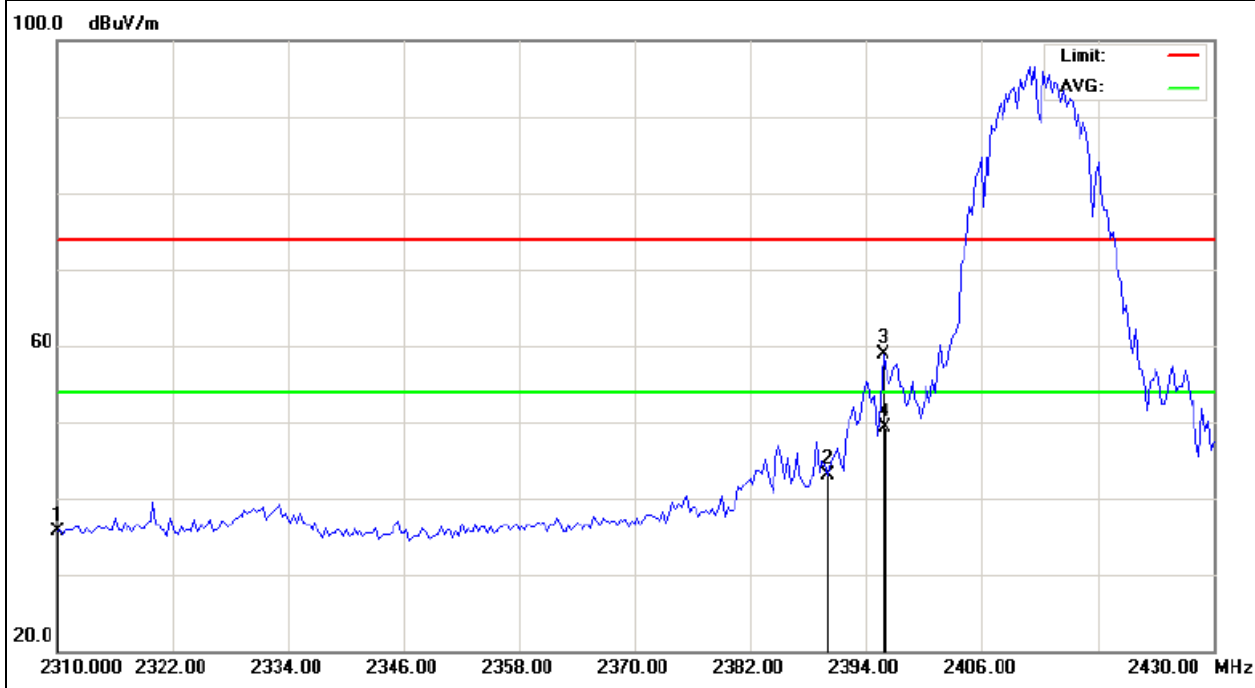
Band Edge Emission:

EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	21 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	48.62	-12.89	35.73	74.00	-38.27	peak
2390.000	56.14	-13.06	43.08	74.00	-30.92	peak
2395.800	71.85	-13.03	58.82	74.00	-15.18	peak
2395.960	62.26	-13.02	49.24	54.00	-4.76	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.

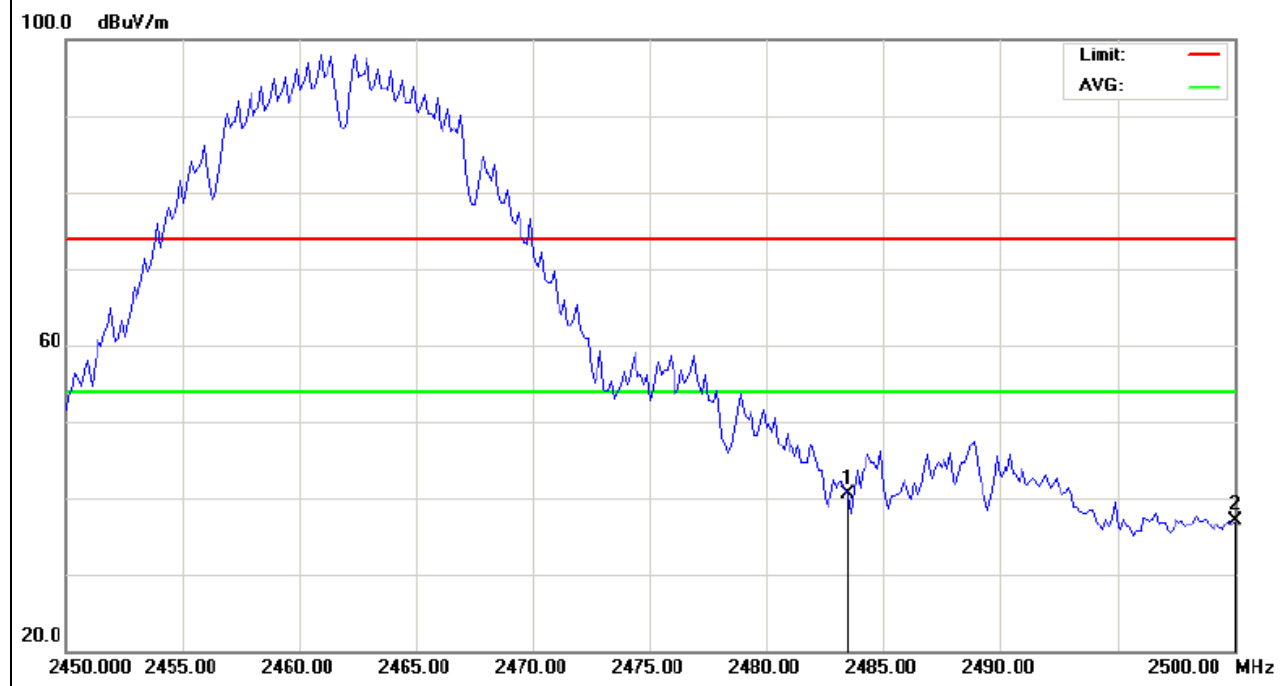


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	53.21	-12.78	40.43	74.00	-33.57	peak
2500.000	49.84	-12.72	37.12	74.00	-36.88	peak

Remark:

- 1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- 2.Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.

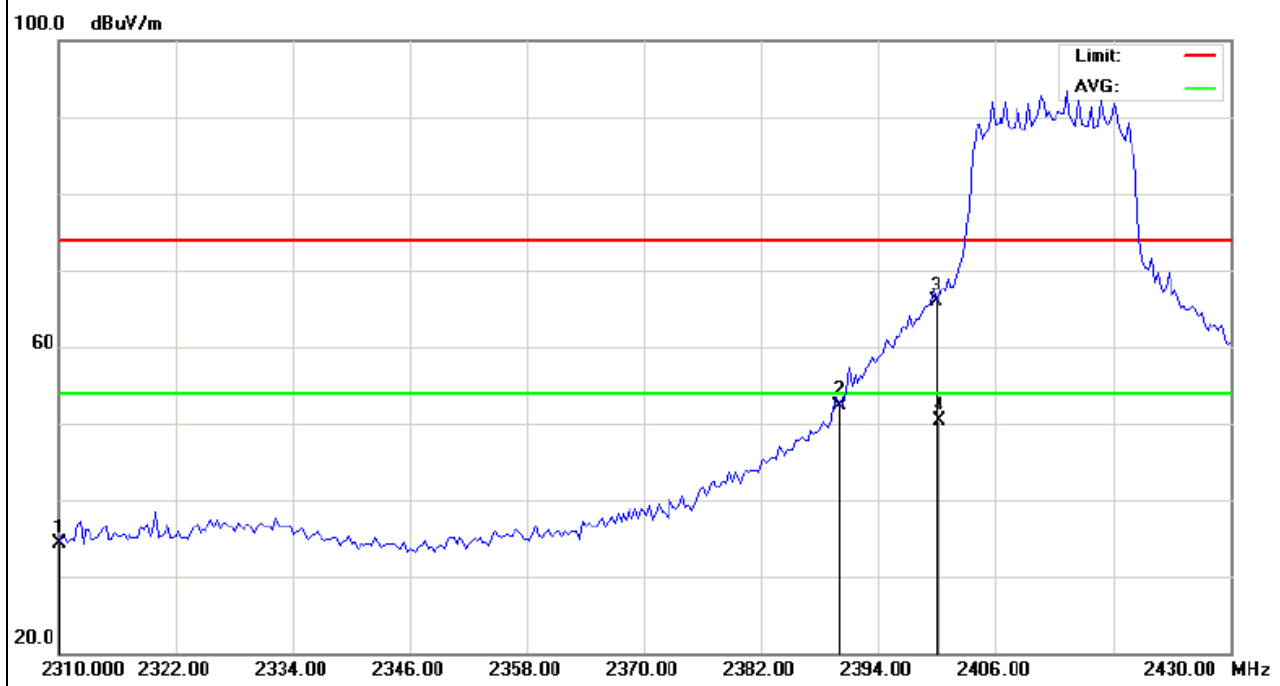


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	47.26	-12.89	34.37	74.00	-39.63	peak
2390.000	65.39	-13.06	52.33	74.00	-21.67	peak
2400.000	78.83	-12.99	65.84	74.00	-8.16	peak
2400.280	63.36	-12.99	50.37	54.00	-3.63	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.

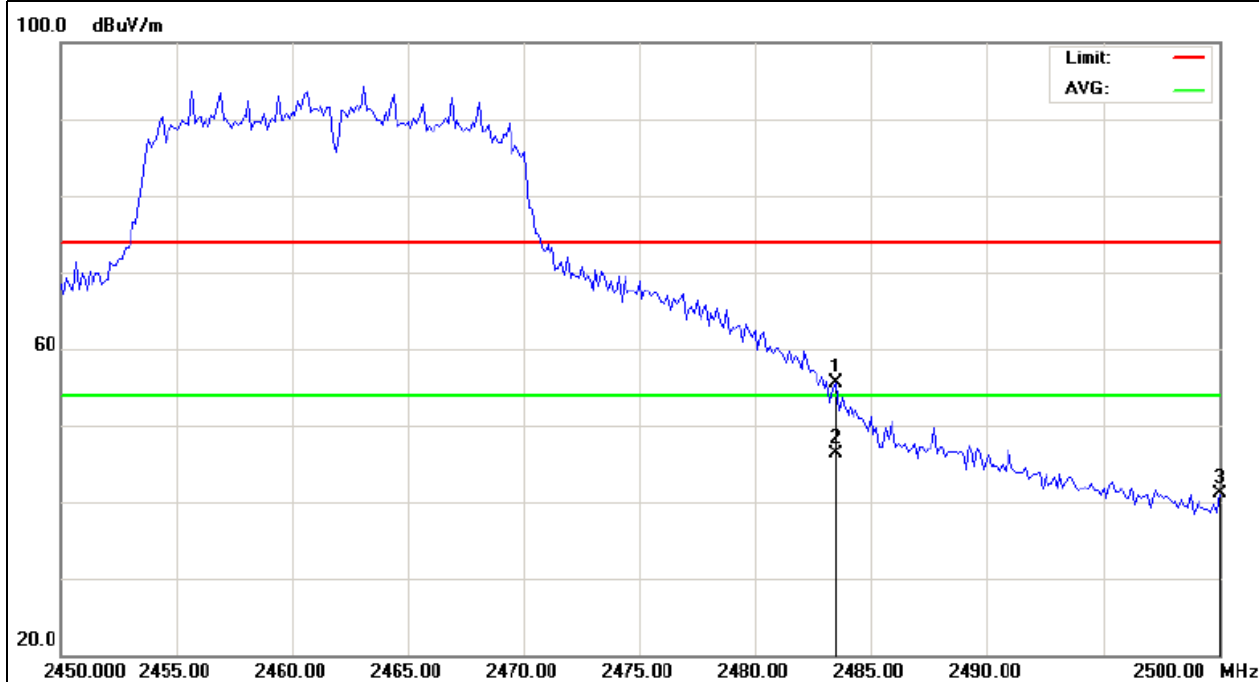


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	68.24	-12.78	55.46	74.00	-18.54	
2483.500	59.03	-12.78	46.25	54.00	-7.75	AVG
2500.000	53.77	-12.72	41.05	74.00	-32.95	peak

Remark:

- 1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- 2.Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.

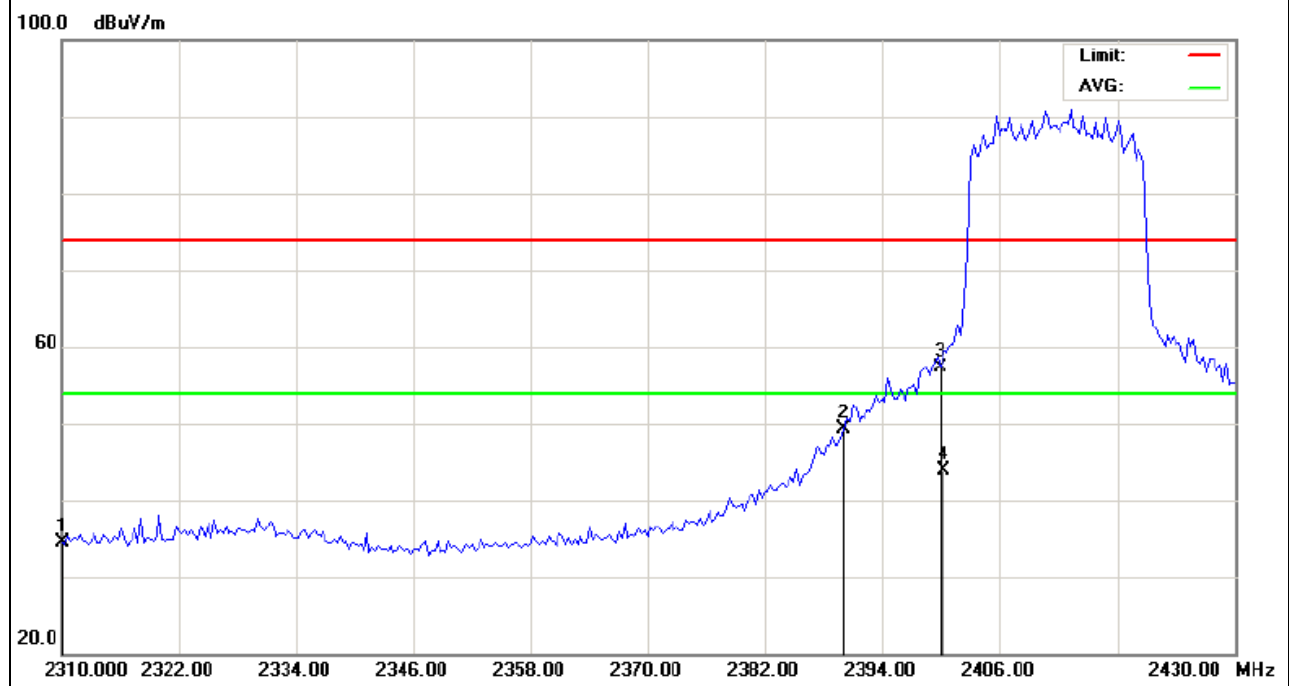


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH1(802.11n Mode/20MHz)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	47.31	-12.89	34.42	74.00	-39.58	peak
2390.000	62.40	-13.06	49.34	74.00	-24.66	peak
2400.000	70.29	-12.99	57.30	74.00	-16.70	peak
2400.280	56.84	-12.99	43.85	54.00	-10.15	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.

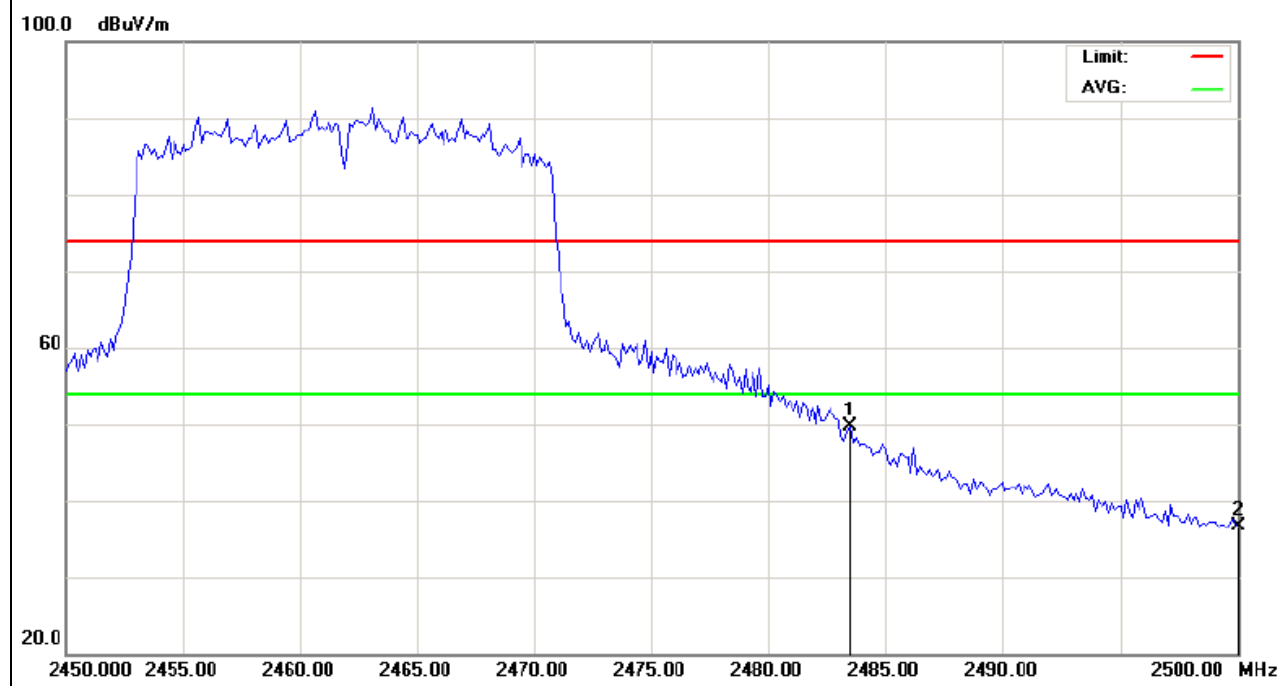


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	CH11(802.11n Mode/20MHz)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	62.57	-12.78	49.79	74.00	-24.21	peak
2500.000	49.37	-12.72	36.65	74.00	-37.35	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

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

4.1.1 TEST PROCEDURE

1. The testing follows Measurement Procedure PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v01.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
3. Record the measurement data derived from spectrum analyzer.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 KHz. Video bandwidth (VBW) >= 300 KHz In order to make an accurate measurement, set the span to 5-30% greater than Emission Bandwidth (EBW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

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

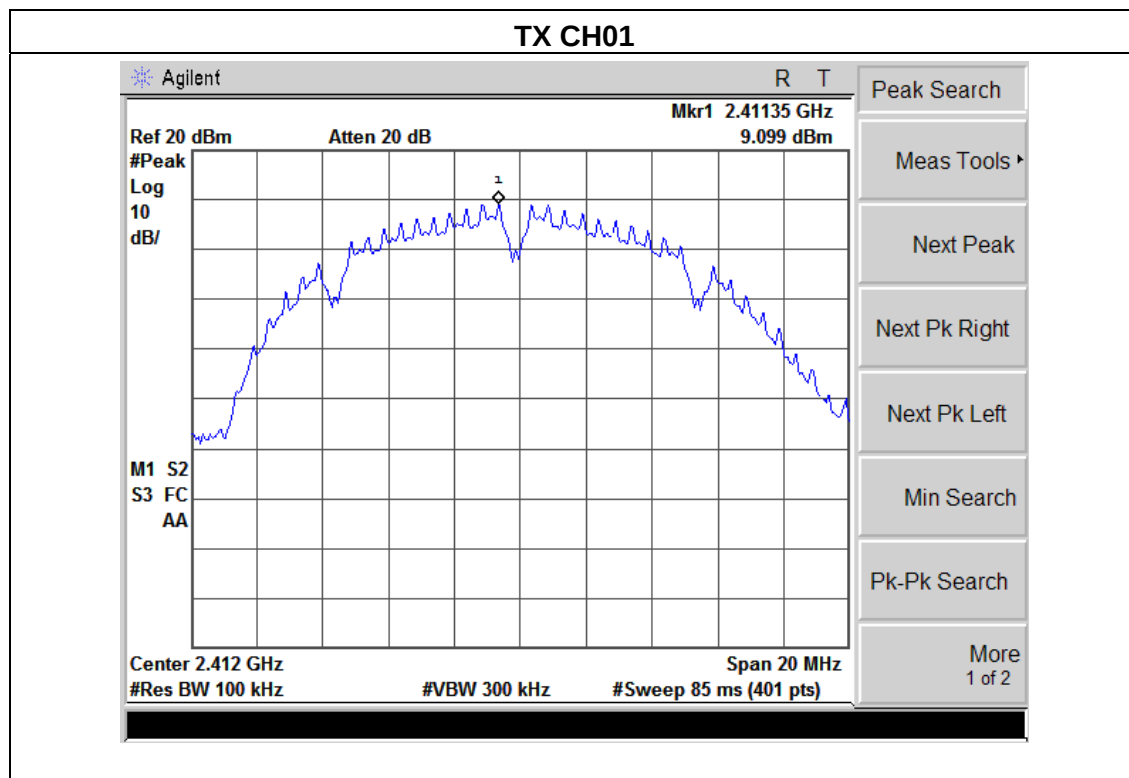
4.1.5 TEST RESULTS

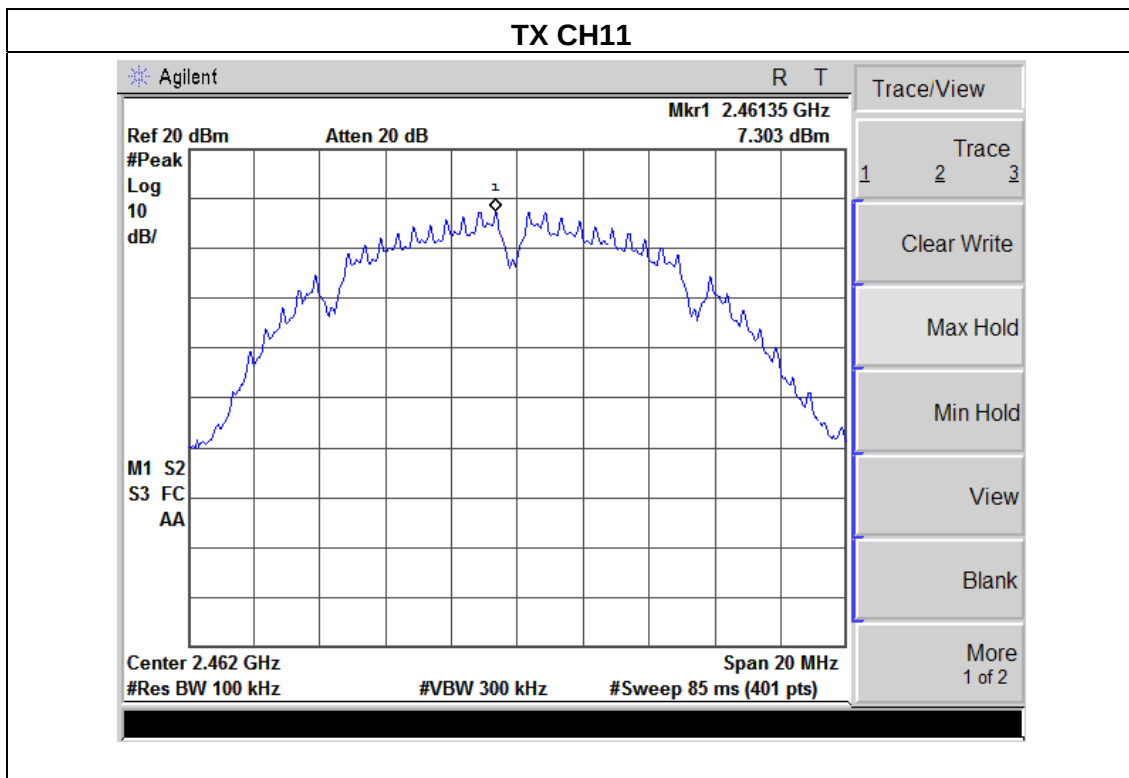
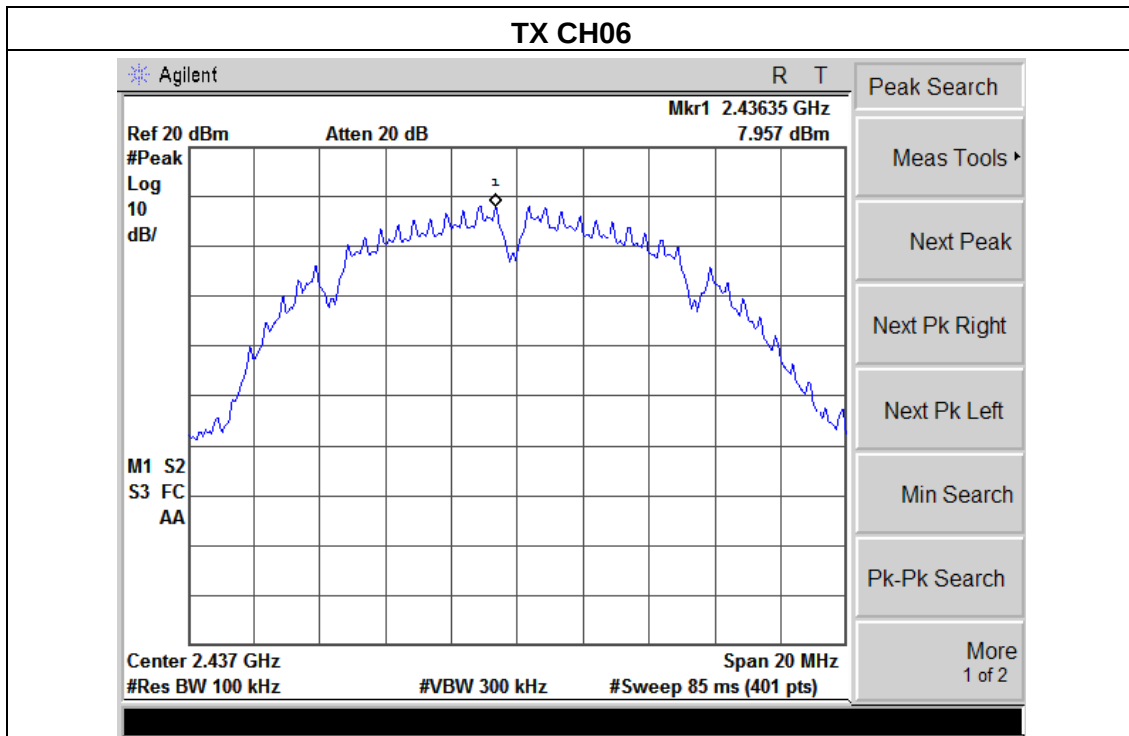
EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	PSD/ 3KHz (dBm)	Limit (dBm)	Result
2412 MHz	9.099	-6.101	8	PASS
2437 MHz	7.957	-7.243	8	PASS
2462 MHz	7.303	-7.897	8	PASS

Note:

1. BWCF = $10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.



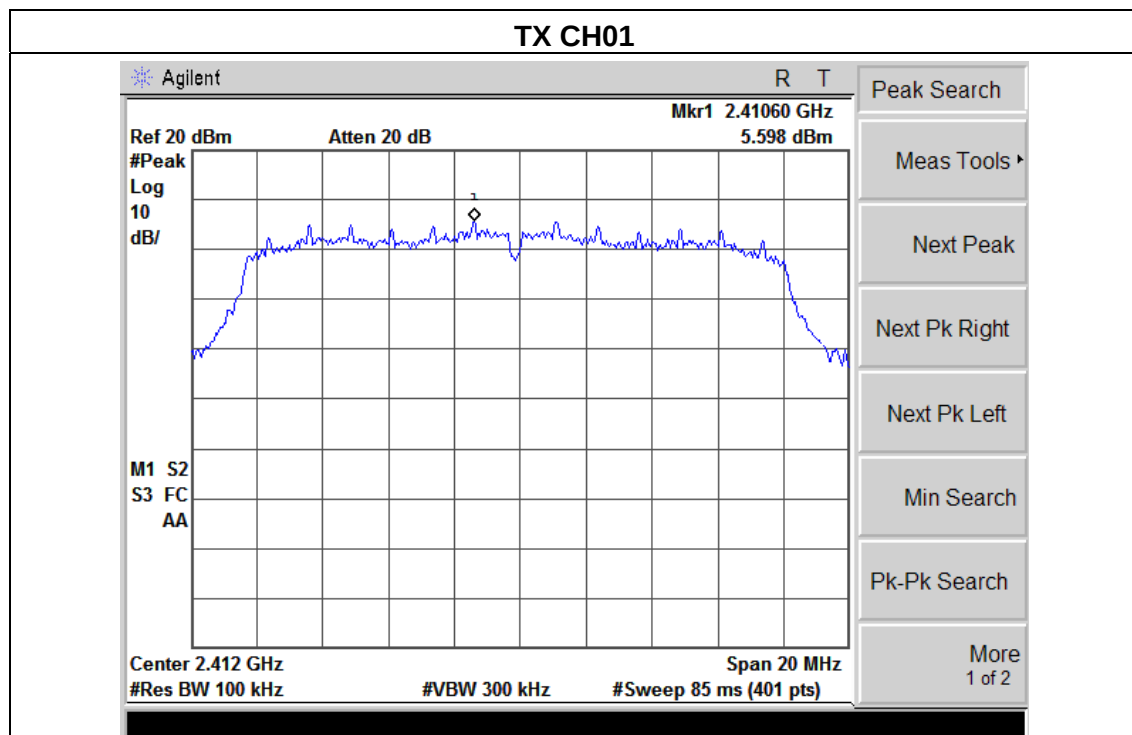


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

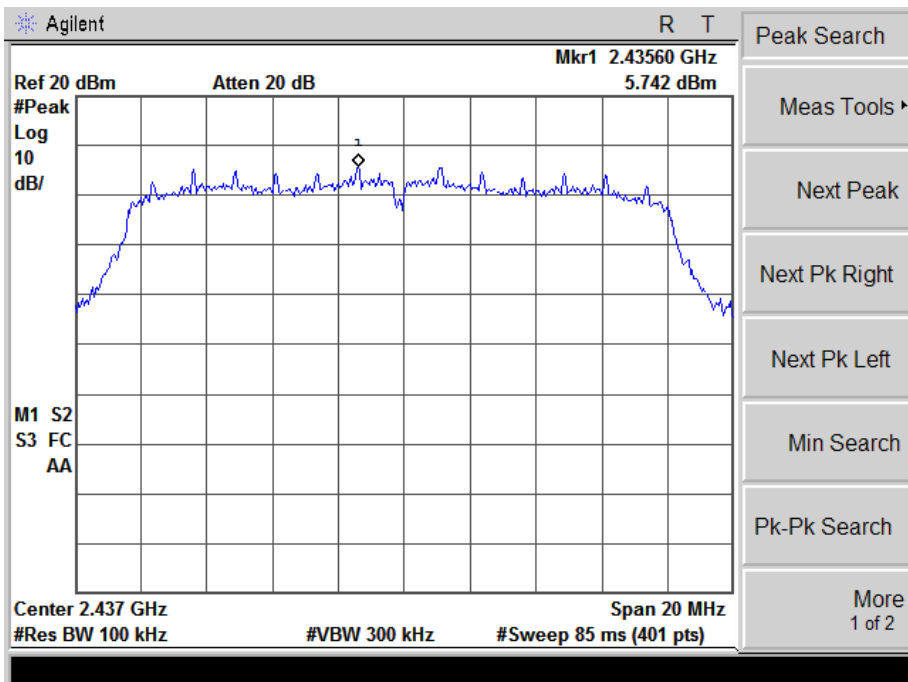
Frequency	Power Density A (dBm)	PSD/ 3KHz (dBm)	Limit (dBm)	Result
2412 MHz	5.598	-9.602	8	PASS
2437 MHz	5.742	-9.458	8	PASS
2462 MHz	4.366	-10.834	8	PASS

Note:

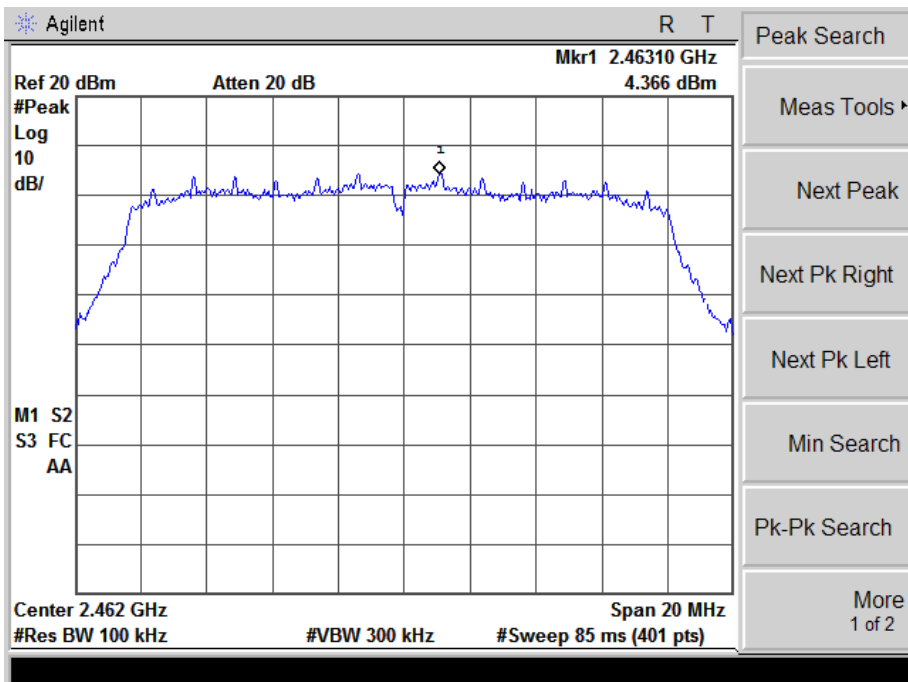
1. BWCF = $10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.



TX CH06



TX CH11

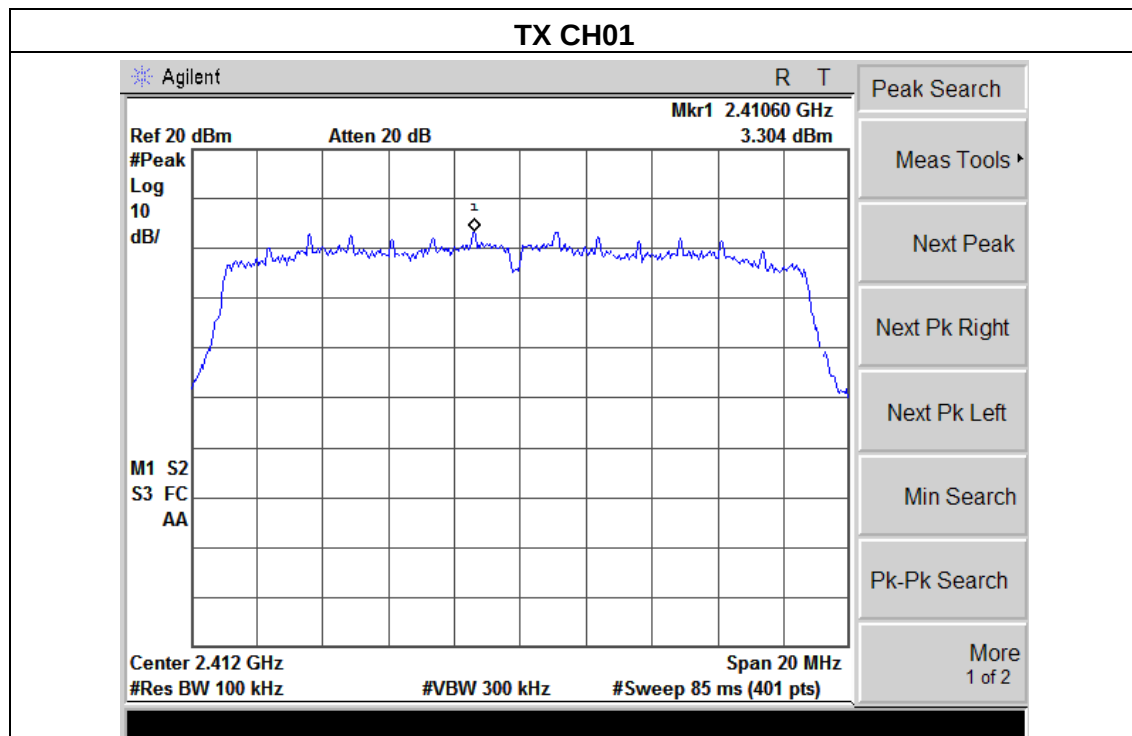


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

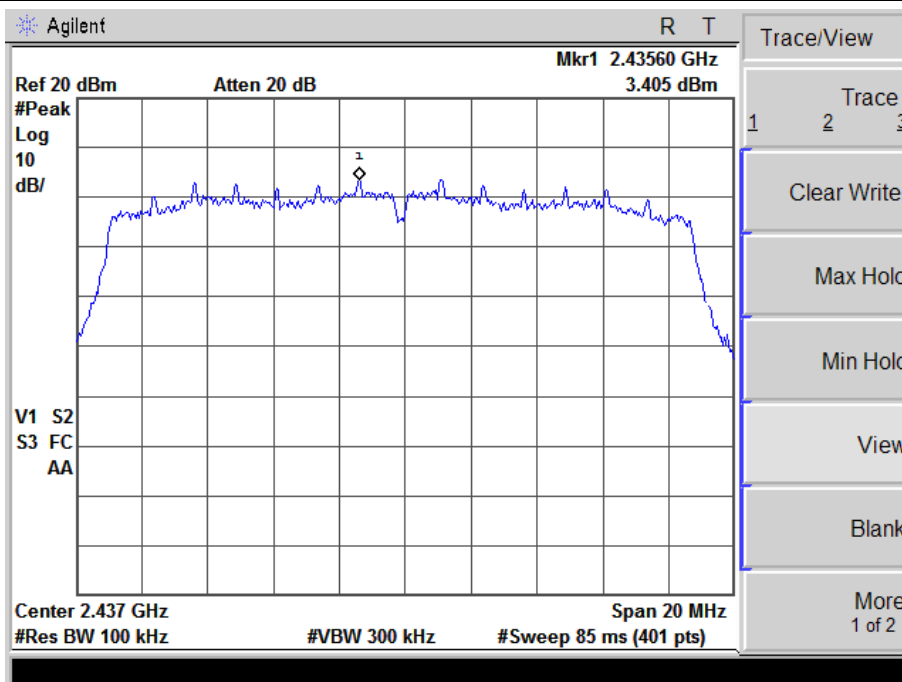
Frequency	Power Density A (dBm)	PSD/ 3KHz (dBm)	Limit (dBm)	Result
2412 MHz	3.304	-11.896	8	PASS
2437 MHz	3.405	-11.795	8	PASS
2462 MHz	3.408	-11.792	8	PASS

Note:

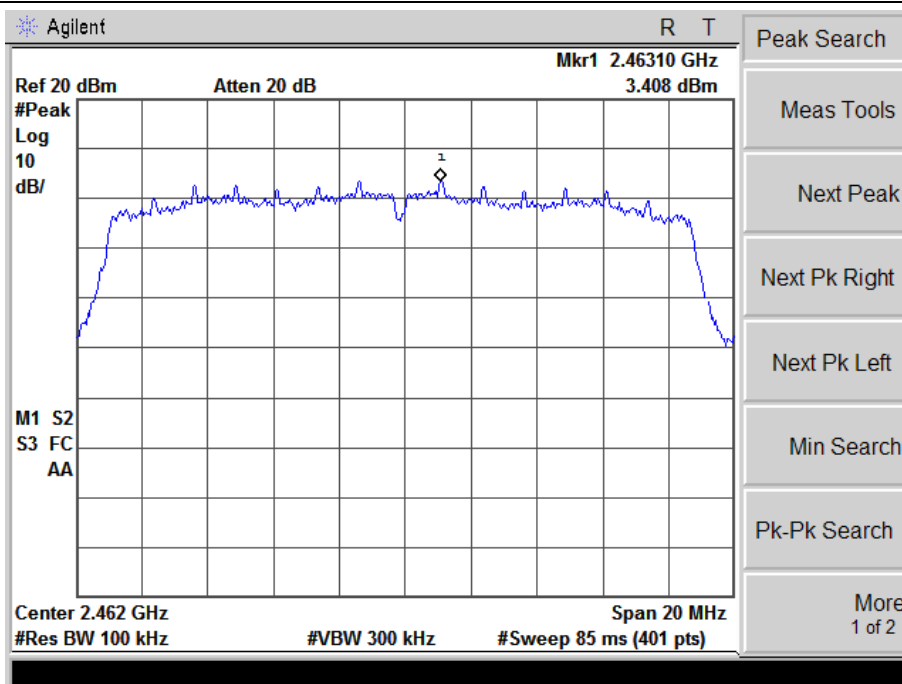
1. BWCF = $10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.



TX CH06



TX CH11



5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

a.

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v01.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1-5% of the emission bandwidth (EBW). Set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 KHz.
4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



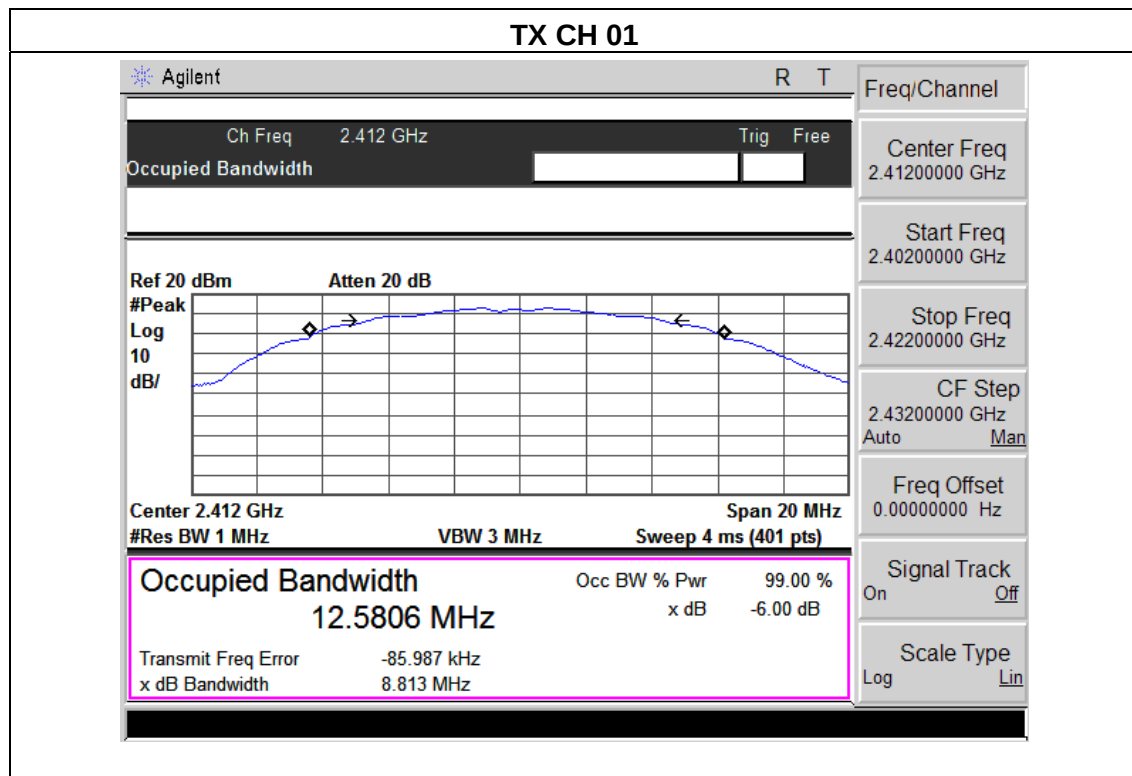
5.1.4 EUT OPERATION CONDITIONS

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

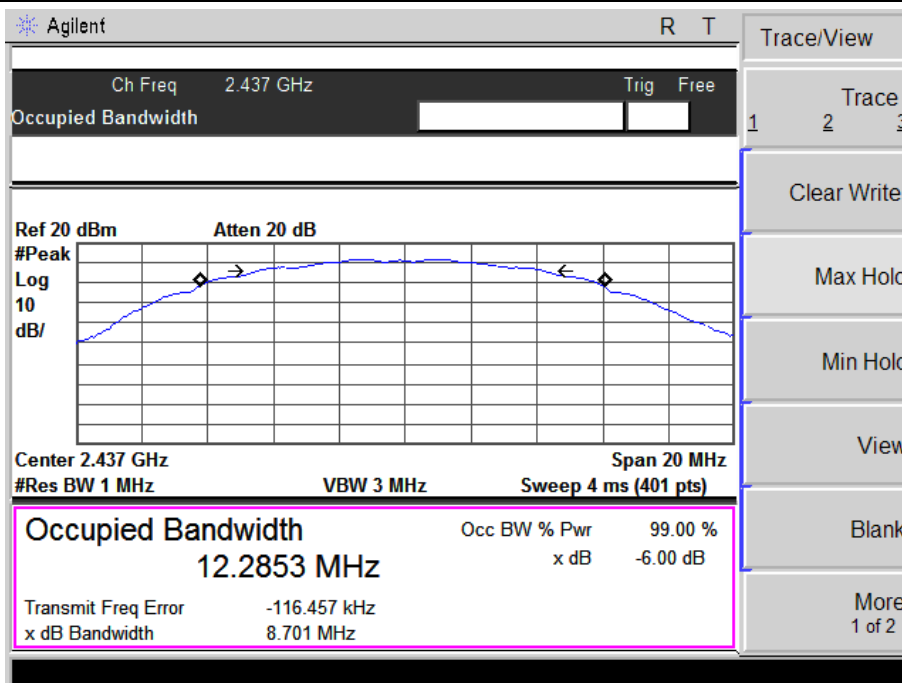
5.1.5 TEST RESULTS

EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

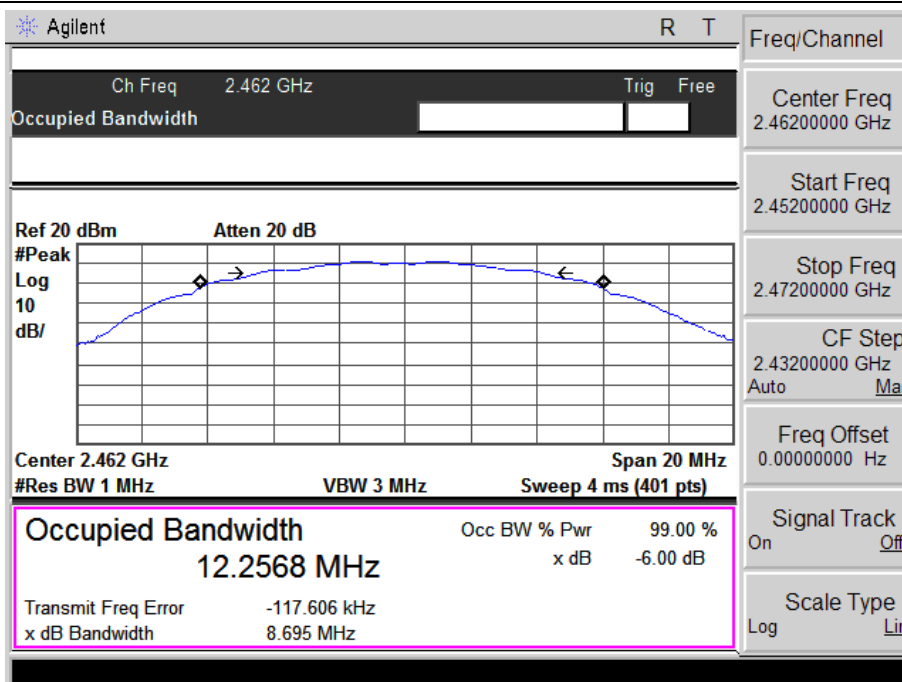
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	8.813	12.5806	>=500KHz	PASS
2437 MHz	8.701	12.2853	>=500KHz	PASS
2462 MHz	8.695	12.2568	>=500KHz	PASS



TX CH 06

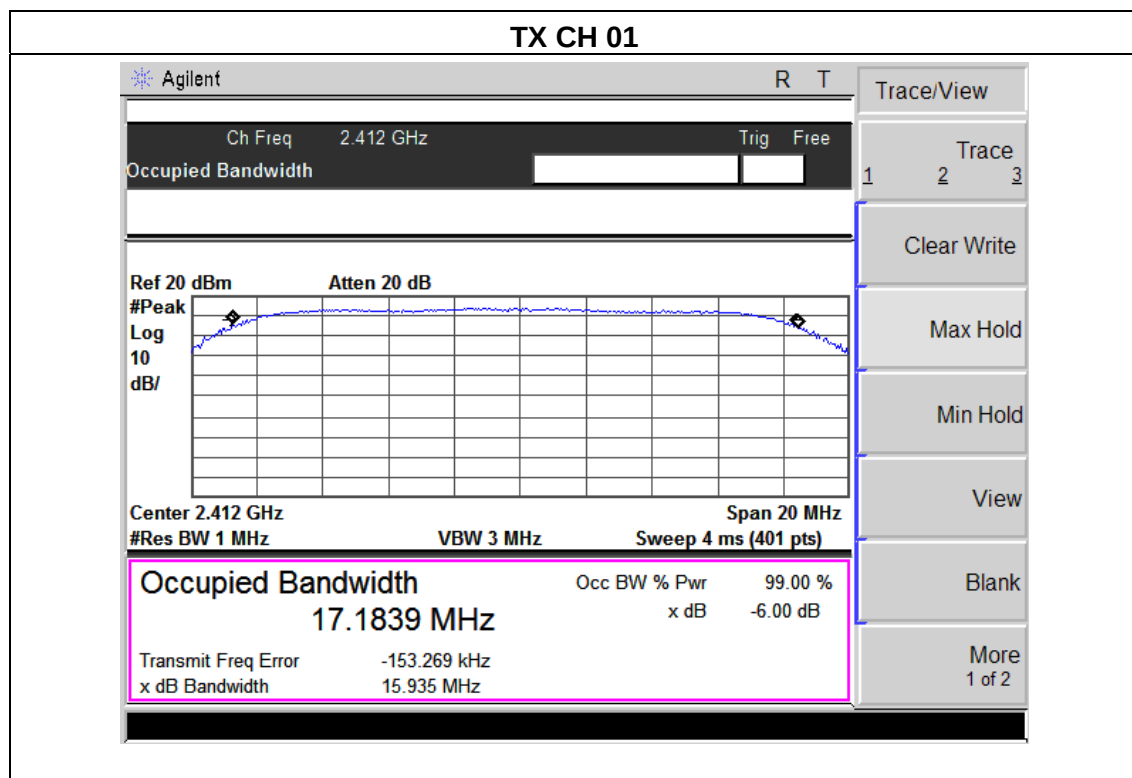


TX CH 11

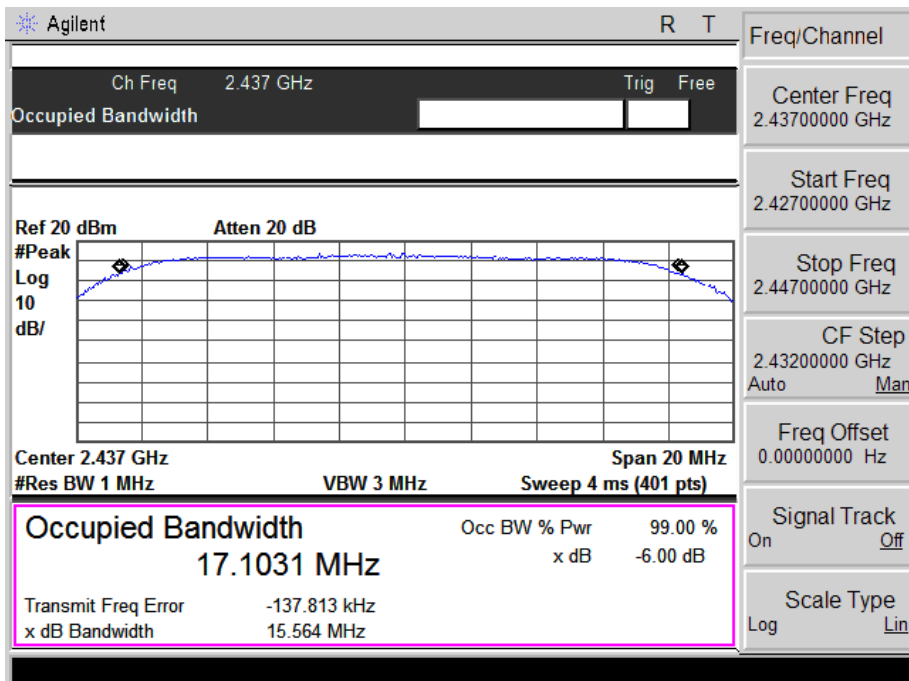


EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

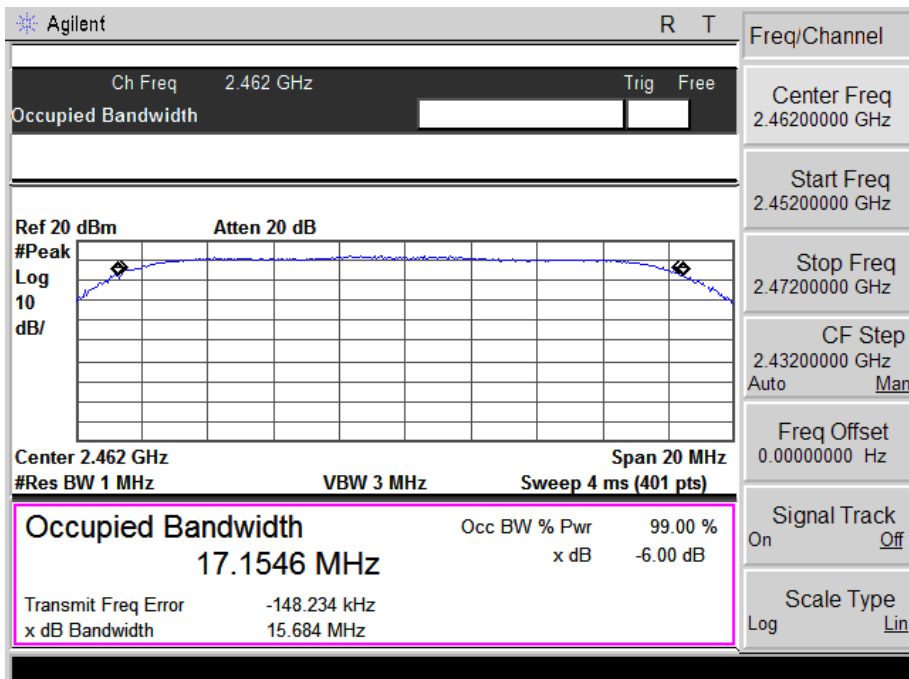
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	15.935	17.1839	>=500KHz	PASS
2437 MHz	15.564	17.1031	>=500KHz	PASS
2462 MHz	15.684	17.1546	>=500KHz	PASS



TX CH 06

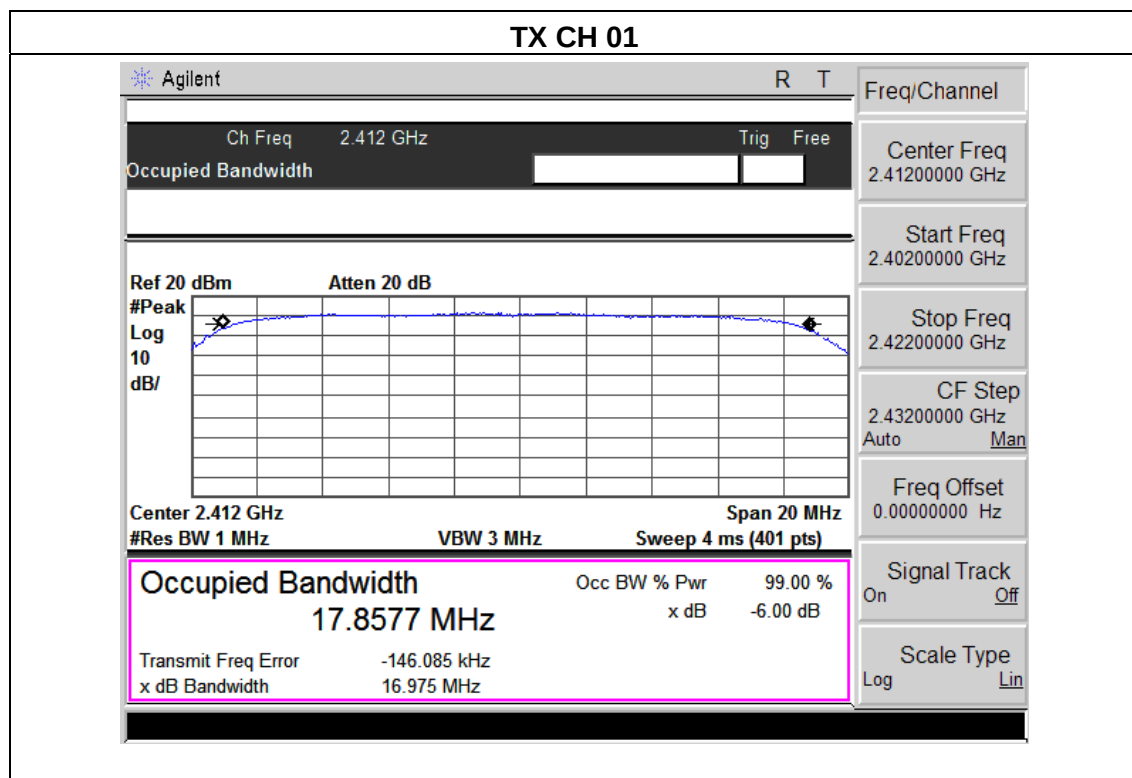


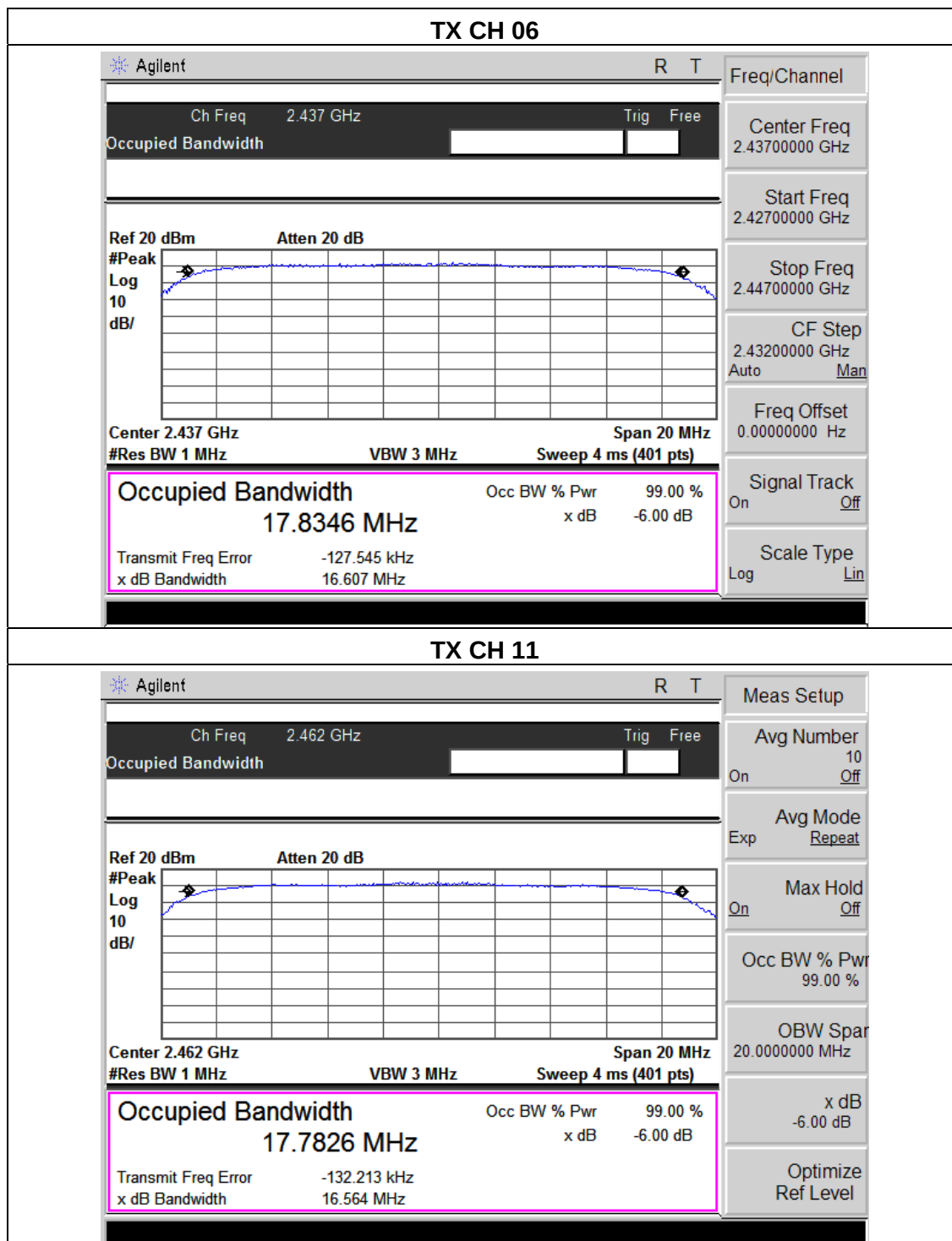
TX CH 11



EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.975	17.8577	>=500KHz	PASS
2437 MHz	16.607	17.8346	>=500KHz	PASS
2462 MHz	16.564	17.7826	>=500KHz	PASS





6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 TEST RESULTS

EUT :	Tablet PC	Model Name :	VB70a Pro
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V From Adapter AC 120V/60Hz
Test Mode :	TX b/g/n(20M,) Mode /CH01, CH06, CH11		

TX 802.11b Mode						
Test Channe	Frequency	Peak output power.	AV output power.	Peak output power.	Antenn a Gain	LIMIT
	(MHz)	(dBm)	(dBm)	(W)	dBi	dBm
CH01	2412	20.02	16.51	0.1004	3.0	30
CH06	2437	18.98	15.19	0.0791	3.0	30
CH11	2462	18.25	14.43	0.0688	3.0	30
TX 802.11g Mode						
CH01	2412	21.02	15.05	0.1265	3.0	30
CH06	2437	20.18	13.18	0.1043	3.0	30
CH11	2462	19.21	13.03	0.0834	3.0	30
TX 802.11n/20M Mode						
CH01	2412	18.68	12.69	0.0738	3.0	30
CH06	2437	18.93	13.00	0.0782	3.0	30
CH11	2462	18.95	13.18	0.0785	3.0	30

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

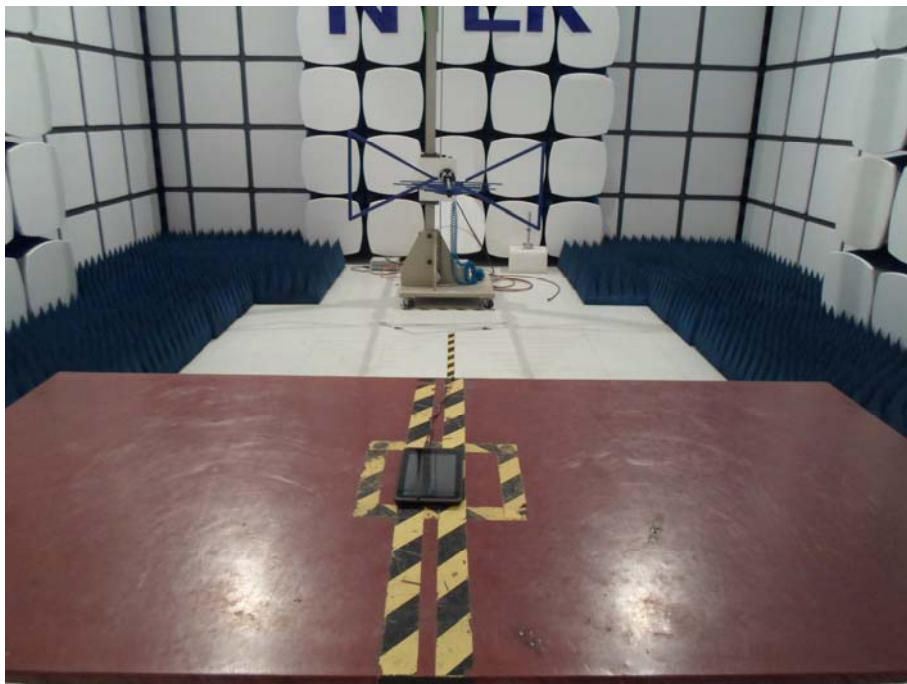
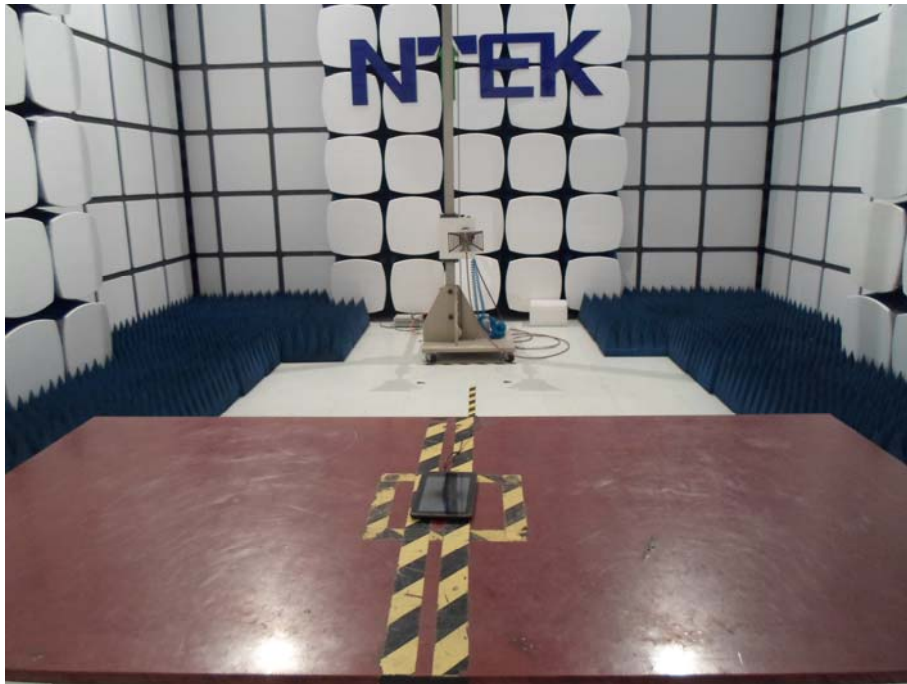
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

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

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos