







## ISO/IEC17025Accredited Lab.

Report No: FCC 1402060 File reference No: 2014-03-12

Applicant: TRIANGLE IMPEX LLC

Product: Tablet PC/MID

Model No: 1PAD777PK, 1PAD777

Trademark: ONEPAD

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4,FCC Part 15 Subpart C,

Paragraph 15.247 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: March 12, 2014

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

Tel (755) 83448688 Fax (755) 83442996

Report No: 1402060 Page 2 of 98

Date: 2014-03-12



# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

# IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

Page 3 of 98

Report No: 1402060 Date: 2014-03-12



# **Test Report Conclusion**

#### Content

1.0	General Details	4
1.1	Test Lab Details.	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	5
1.5	Test Duration.	5
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment.	6
3.0	Technical Details	9
3.1	Summary of Test Results	9
3.2	Test Standards.	9
4.0	EUT Modification.	9
5.0	Power Line Conducted Emission Test.	10
5.1	Schematics of the Test.	10
5.2	Test Method and Test Procedure.	10
5.3	Configuration of the EUT.	10
5.4	EUT Operating Condition.	11
5.5	Conducted Emission Limit.	11
5.6	Test Result.	11
6.0	Radiated Emission test.	14
6.1	Test Method and Test Procedure.	14
6.2	Configuration of the EUT.	14
6.3	EUT Operation Condition.	14
6.4	Radiated Emission Limit.	15
7.0	6dB Bandwidth Measurement.	39
8.0	Maximum Peak Output Power.	58
9.0	Power Spectral Density Measurement.	61
10.0	Out of Band Measurement.	79
11.0	Antenna Requirement.	88
12.0	FCC ID Label.	89
13.0	Photo of Test Setup and EUT View.	90

Date: 2014-03-12



#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

#### 1.2 Applicant Details

Applicant: TRIANGLE IMPEX LLC

Address: 11410 HARRY HINES BLVD SUITE 108, DALLAS, TX 75229 USA

Telephone: 001-310 936 9011 Fax: 001-310 936 3011

## 1.3 Description of EUT

Product: Tablet PC/MID

Manufacturer: Gostar Group (HK) LTD

Address: A301 Mingyou Purchasing Center, 168 Baoyuan Road, Bao'an District,

Shenzhen, China

Brand Name: ONEPAD

Additional Brand Name: N/A

Model Number: 1PAD777PK

Additional Model Number: 1PAD777

Type of Modulation IEEE 802.11b : DSSS (CCK, QPSK, DBPSK)

IEEE 802.11g/n (HT20/HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)

Frequency range IEEE 802.11b/g/n (HT20) : 2412-2462MHz;

IEEE 802.11n HT40: 2422MHz-2452MHz

Channel Spacing IEEE 802.11b/g/n (HT20/HT40) : 5MHz

Air Data Rate IEEE 802.11b : 11, 5.5, 2, 1 Mbps

IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps

IEEE 802.11n HT20: 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps IEEE 802.11n HT40: 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps

Frequency Selection By software

The report refers only to the sample tested and does not apply to the bulk.

Report No: 1402060 Page 5 of 98

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Channel Number

IEEE 802.11b/g/n (HT20): 11 Channels

IEEE 802.11n HT40: 7 Channels

Power Supply:

Date: 2014-03-12

SK02G-0500150U Input: AC100-240V, 50/60Hz, 0.2A Max; Output: 5V, 1.5A

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2014-02-21 to 2014-03-12

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

Page 6 of 98

Report No: 1402060 Date: 2014-03-12



2.0	0 Test Equipments							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2013-08-23	2014-08-22			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2013-08-23	2014-08-22			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2013-08-23	2014-08-22			
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2013-08-25	2014-08-24			
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2013-08-23	2014-08-22			
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2013-08-24	2014-08-23			
System Controller	CT	SC100	-					
Printer	EPSON	РНОТО ЕХЗ	CFNH234850					
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-			
Loop Antenna	EMCO	6502	00042960	2013-08-23	2014-08-22			
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2013-08-23	2014-08-22			
3m OATS			N/A	2013-08-22	2014-08-21			
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2013-08-24	2014-08-23			
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2013-08-24	2014-08-23			
Power meter	Anritsu	ML2487A	6K00003613	2013-08-24	2014-08-23			
Power sensor	Anritsu	MA2491A	32263	2013-08-24	2014-08-23			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2013-08-24	2014-08-23			
LISN	AFJ	LS16C	10010947251	2013-08-23	2014-08-22			
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22			
9*6*6 Anechoic			N/A	2013-08-22	2014-08-21			
EMI Test Receiver	RS	ESCS30	100139	2013-08-23	2014-08-22			
LISN	AFJ	LS16C	10010947251	2013-08-23	2014-08-22			
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22			

Report No: 1402060 Page 7 of 98



#### 2.1 **Auxiliary Equipment**

Date: 2014-03-12

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
TF Card			Kingston		
Passive Earphone					
Monitor	PH2450		SAMSUNG		DOC

Report No: 1402060 Page 8 of 98

Date: 2014-03-12



#### 3. DESCRIPTION OF TEST MODES

#### IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 11Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 65Mbps data rate (worst case) were chosen for full testing

#### IEEE 802.11n HT40

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Mid	2437
High	2452

IEEE 802.11n HT40 mode: 65Mbps data rate (worst case) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.



#### 3.0 **Technical Details**

#### 3.1 **Summary of test results**

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107	<b>Conducted Emission Test</b>	PASS	Complies
& 15.207 & RSS-210 Issue 8			
	Spectrum bandwidth of a		Complies
FCC Part 15 Subpart C	Orthogonal Frequency		
Paragraph 15.247(a)(2) Limit &	<b>Division Multiplex System</b>	PASS	
RSS-210 Issue 8	Limit: 6dB		
	bandwidth>500kHz		
FCC Part 15, Paragraph	Maximum peak output		
15.247(b) & RSS-210 Issue 8	power	PASS	Complies
13.247(b) & K35-210 Issue 6	Limit: max. 30dBm		
FCC Part 15, Paragraph	Transmitter Radiated	PASS	Complies
15.109,15.205 & 15.209 &	Emission		
RSS-210 Issue 8	Limit: Table 15.209		
FCC Part 15, Paragraph	<b>Power Spectral Density</b>	PASS	Complies
15.247(e) & RSS-210 Issue 8	Limit: max. 8dBm		
FCC Part 15, Paragraph	Out of Band Emission and	PASS	Complies
15.247(d) & RSS-210 Issue 8	Restricted Band		
	Radiation		
	Limit: 20dB less than		
	peak value of fundamental		
	frequency		
	Restricted band limit:		
	<b>Table 15.209</b>		

#### 3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 & RSS-210 Issue 8

#### **EUT Modification** 4.0

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

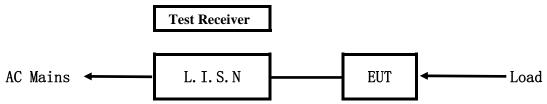
Report No: 1402060 Page 10 of 98

Date: 2014-03-12



#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

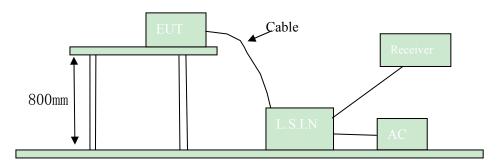


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the

appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
Tablet PC/MID	Gostar Group (HK) LTD	1PAD777PK, 1PAD777	2ABWZ-1PAD7A

The report refers only to the sample tested and does not apply to the bulk.

Report No: 1402060 Page 11 of 98

Date: 2014-03-12



#### B. Internal Device

Device	Manufacturer	Model	Rating

# C. Peripherals

Device	Manufacturer		Model	Rating
Power	Shenzhen	Xinnengjinyuan	SK02G-0500150U	Input: 100-240V~, 50/60Hz, 0.2A;
Supply	Technology Develop Co., Ltd			Output: DC5V, 1.5A

**EUT Operating Condition** 

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

## 5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency	Class A Lim	its (dB µ V)	Class B Limits (dB \( \mu \) V)		
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Date: 2014-03-12



# A: Conducted Emission on Live Terminal (150kHz to 30MHz)

# **EUT Operating Environment**

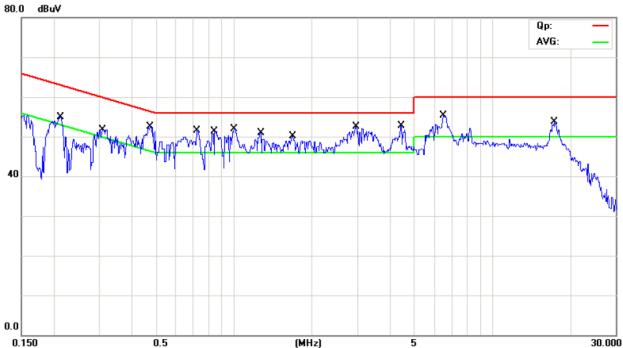
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging and Keep Transmitting** 

**Equipment Level: Class B** 

**Results: PASS** 

Please refer to following diagram for individual



0.0	(M)	12)	9	3	
Frequency Reading(dBµV)		Lina	dBμV)	Limit(c	dBμV)
Line	Quasi-peak	Average	Quasi-peak	Average	
Live	52.87	33.41	63.09	53.09	
Live	49.76	31.73	59.97	49.97	
Live	49.60	32.01	56.51	46.51	
Live	49.60	28.97	56.00	46.00	
Live	49.23	31.34	56.00	46.00	
Live	49.89	33.35	56.00	46.00	
Live	50.82	32.99	56.00	46.00	
Live	50.18	34.89	56.00	46.00	
Live	50.44	34.94	56.00	46.00	
Live	50.63	32.81	56.00	46.00	
Live	53.21	35.55	60.00	50.00	
Live	53.79	34.99	60.00	50.00	
	Line Live Live Live Live Live Live Live Liv	Line         Reading(           Quasi-peak         Live           Live         52.87           Live         49.76           Live         49.60           Live         49.89           Live         50.82           Live         50.18           Live         50.63           Live         53.21	Line         Reading(dBμV)           Quasi-peak         Average           Live         52.87         33.41           Live         49.76         31.73           Live         49.60         32.01           Live         49.60         28.97           Live         49.23         31.34           Live         49.89         33.35           Live         50.82         32.99           Live         50.18         34.89           Live         50.44         34.94           Live         50.63         32.81           Live         53.21         35.55	Line         Reading(dBμV)         Limit(oral peak)           Live         52.87         33.41         63.09           Live         49.76         31.73         59.97           Live         49.60         32.01         56.51           Live         49.60         28.97         56.00           Live         49.23         31.34         56.00           Live         49.89         33.35         56.00           Live         50.82         32.99         56.00           Live         50.18         34.89         56.00           Live         50.44         34.94         56.00           Live         50.63         32.81         56.00           Live         53.21         35.55         60.00	

The report refers only to the sample tested and does not apply to the bulk.

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Report No: 1402060 Page 13 of 98

Date: 2014-03-12



# B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

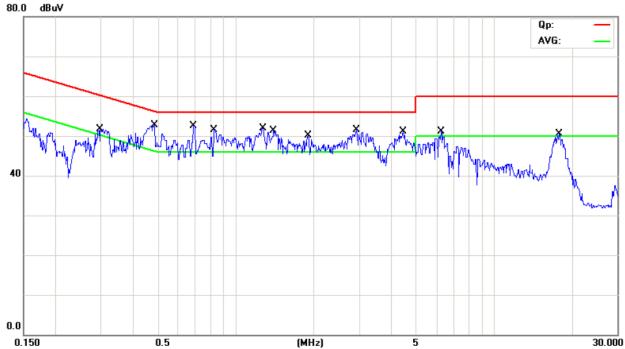
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging and Keep Transmitting** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.297	Neutral	51.67	37.53	60.33	50.33
0.481	Neutral	50.76	36.22	56.31	46.31
0.691	Neutral	50.56	35.24	56.00	46.00
0.826	Neutral	49.47	33.72	56.00	46.00
1.265	Neutral	49.86	33.27	56.00	46.00
1.400	Neutral	49.24	31.33	56.00	46.00
1.895	Neutral	48.12	31.83	56.00	46.00
2.918	Neutral	49.60	32.56	56.00	46.00
4.426	Neutral	49.02	32.59	56.00	46.00
6.250	Neutral	51.05	32.73	60.00	50.00
17.875	Neutral	50.51	35.61	60.00	50.00

Report No: 1402060 Page 14 of 98

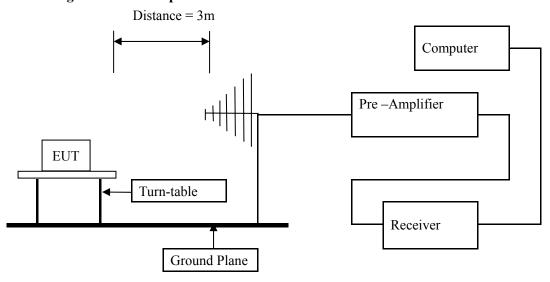
Date: 2014-03-12



#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

#### **Block diagram of Test setup**



- 6.2 Configuration of The EUT
  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.

Report No: 1402060 Page 15 of 98

下IMEWAY TESTING LABS

#### 6.4 Radiated Emission Limit

Date: 2014-03-12

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

Report No: 1402060 Page 16 of 98

Date: 2014-03-12



#### Test result

# General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

**EUT set Condition: Keep WIFI Transmitting** 

**Results: Pass** 

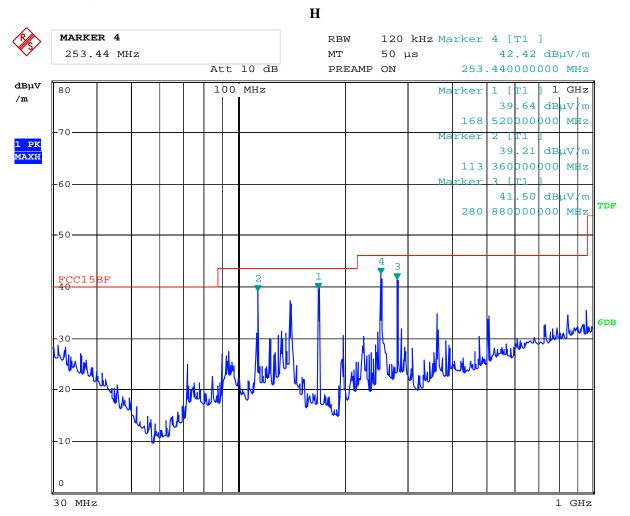
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
168.520	39.64	Н	43.50
113.360	39.21	Н	43.50
280.880	41.50	Н	46.00
253.440	42.42	Н	46.00
168.560	36.96	V	43.50
137.320	34.81	V	43.50
280.880	37.23	V	46.00
372.160	36.79	V	46.00

Report No: 1402060 Page 17 of 98

Date: 2014-03-12



#### Test Figure:



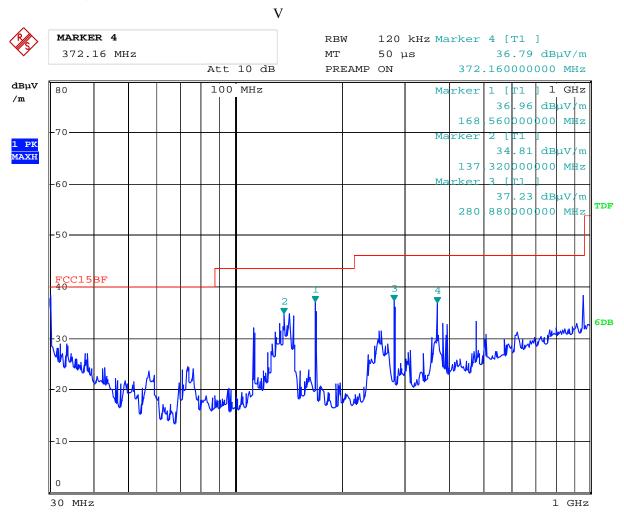
Date: 25.FEB.2014 12:02:39

Report No: 1402060 Page 18 of 98

Date: 2014-03-12



#### Test Figure:



Date: 25.FEB.2014 11:59:51

Report No: 1402060 Page 19 of 98

Date: 2014-03-12



## Operation Mode: Keeping Transmitting under CH01 for 11g at 6Mbps

	2 0		
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2412.00	92.74 (PK)	Н	Evendom antal Engavanav
2412.00	93.19 (PK)	V	Fundamental Frequency
4824.00	48.61 (PK)	Н	74(Peak)/ 54(AV)
4824.00	48.32 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16884		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 6Mbps

Report No: 1402060 Page 20 of 98

Date: 2014-03-12



## Operation Mode: Keeping Transmitting under CH06 for 11g at 6Mbps

_			_
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2437.00	91.38 (PK)	Н	E d d-1 E
2437.00	89.44 (PK)	V	Fundamental Frequency
4874.00	48.47 (PK)	Н	74(Peak)/ 54(AV)
4874.00	48.32 (PK)	V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 6 Mbps

## **Operation Mode: Transmitting under CH11 for 11g at 6Mbps**

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
2462.00	92.43 (PK)	Н	E1
2462.00	92.25 (PK)	V	Fundamental Frequency
4924	48.58 (PK)	Н	74(Peak)/ 54(AV)
4924	48.64 (PK)	V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode at 6 Mbps

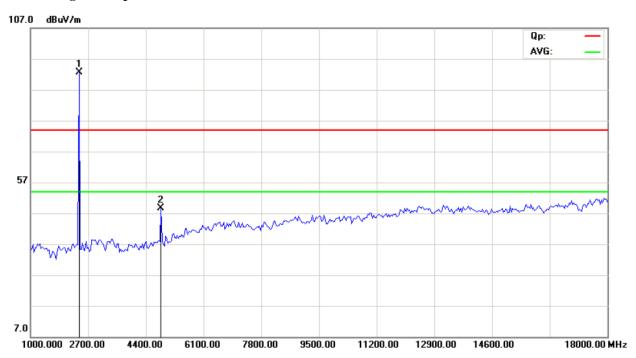
The report refers only to the sample tested and does not apply to the bulk.

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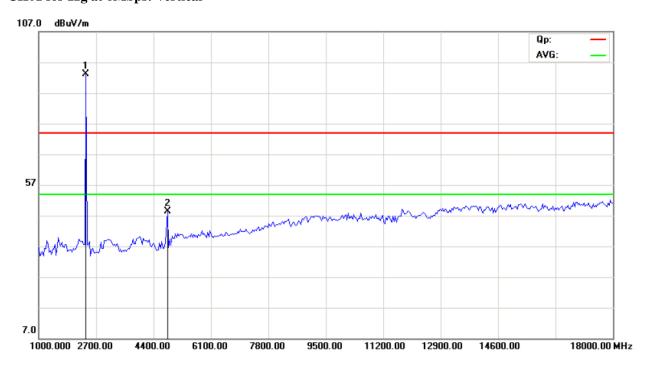


Please refer to the following test plots for details:

## CH01 for 11g at 6Mbps: Horizontal



# CH01 for 11g at 6Mbps: Vertical



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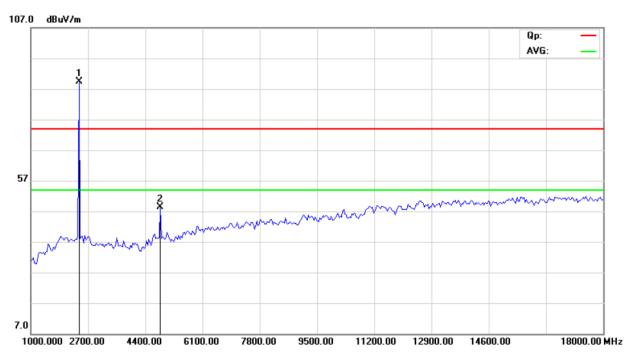
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Page 22 of 98

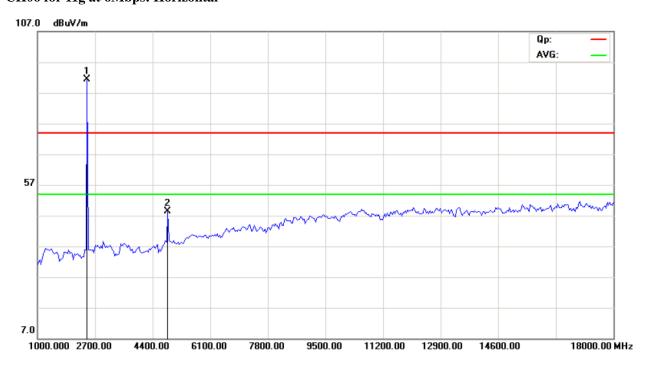
Report No: 1402060 Date: 2014-03-12



# CH06 for 11g at 6Mbps: Vertical



# CH06 for 11g at 6Mbps: Horizontal

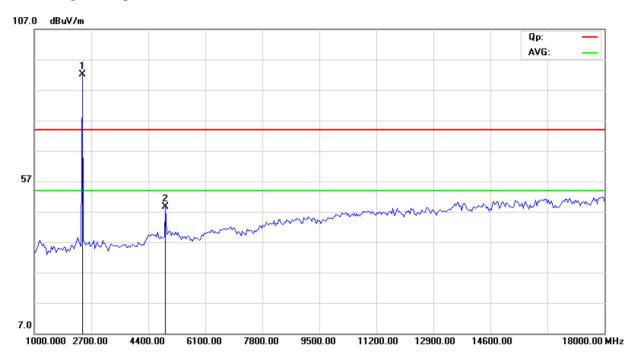


The report refers only to the sample tested and does not apply to the bulk.

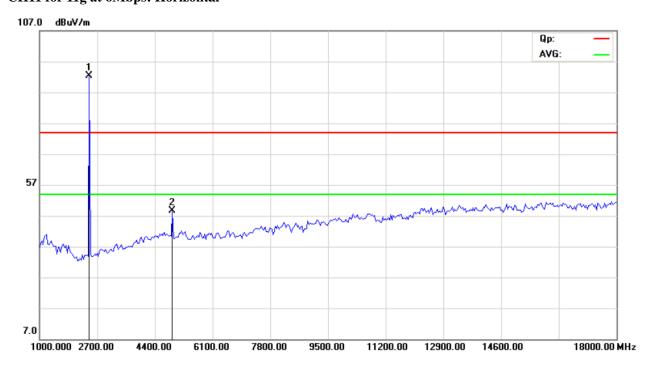
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## CH11 for 11g at 6Mbps: Vertical



# CH11 for 11g at 6Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Report No: 1402060 Page 24 of 98

Date: 2014-03-12



## Operation Mode: Keeping Transmitting under CH01 for 11b at 11Mbps

	1 0		*
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2412.00	92.31 (PK)	V	F 1
2412.00	92.76 (PK)	Н	Fundamental Frequency
4824.00	47.82 (PK)	Н	74(Peak)/ 54(AV)
4824.00	48.51 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 11Mbps

#### Operation Mode: Keeping Transmitting under CH06 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2437.00	93.21 (PK)	Н	Even domental Engavenery
2437.00	92.15 (PK)	V	Fundamental Frequency
4874.00	48.12 (PK)	Н	74(Peak)/ 54(AV)
4874.00	48.58 (PK)	V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 11Mbps

The report refers only to the sample tested and does not apply to the bulk.

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Report No: 1402060 Page 25 of 98

Date: 2014-03-12



# Operation Mode: Keeping Transmitting under CH11 for 11b at 11Mbps

			_
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2462.00	91.67 (PK)	Н	Even domental Engavenory
2462.00	91.88 (PK)	V	Fundamental Frequency
4924	48.63 (PK)	Н	74(Peak)/ 54(AV)
4924	47.79 (PK)	V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

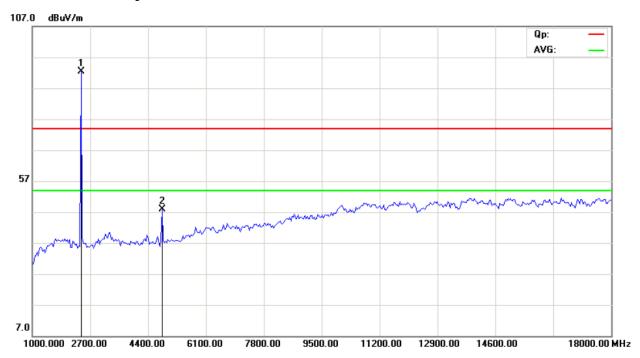
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 11Mbps

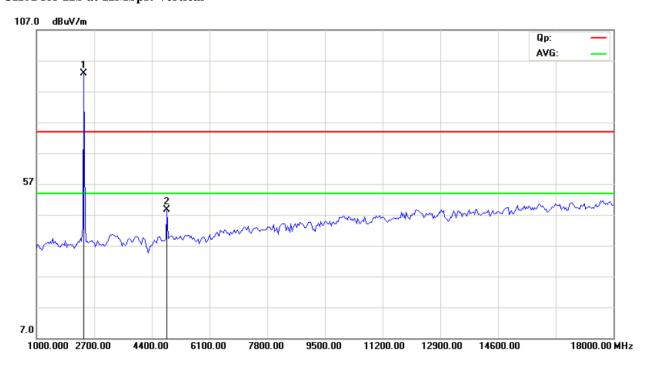


Please refer to the following test plots for details:

## CH01 for 11b at 11Mbps: Horizontal



# CH01 for 11b at 11Mbps: Vertical



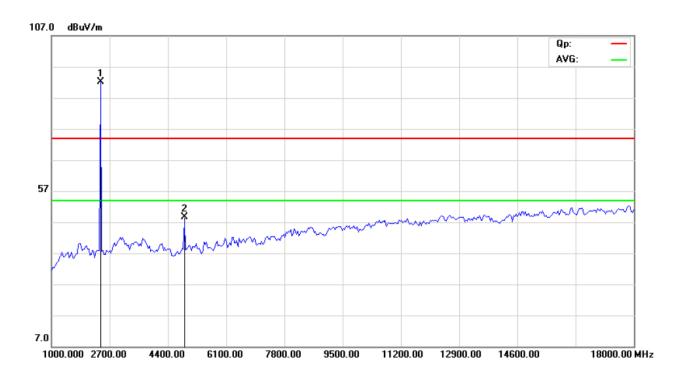
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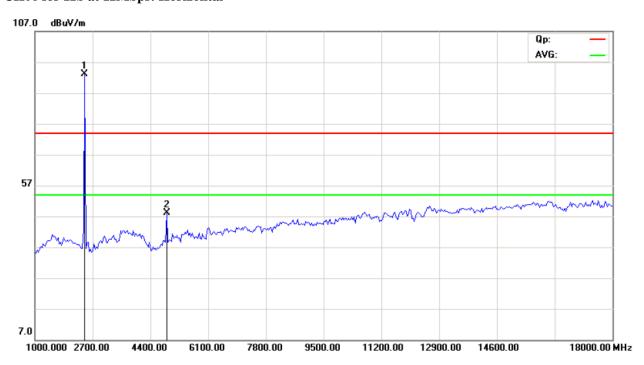
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# CH06 for 11b at 11Mbps: Vertical



## CH06 for 11b at 11Mbps: Horizontal



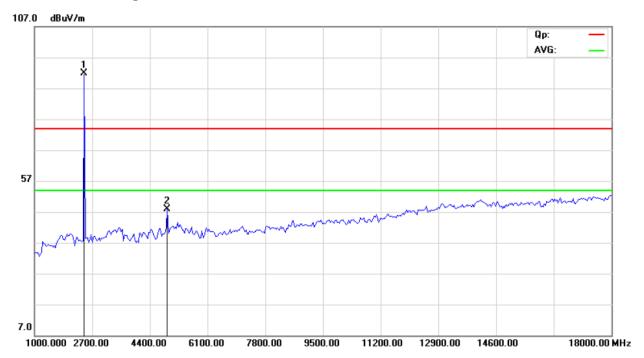
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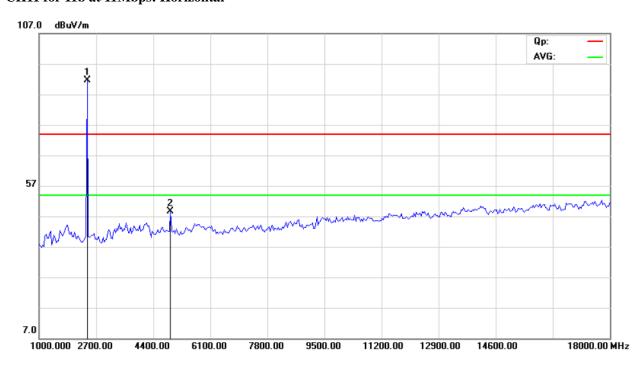
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## CH11 for 11b at 11Mbps: Vertical



# CH11 for 11b at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Date: 2014-03-12



## Operation Mode: Keeping Transmitting under CH01 for 11n HT20 at 65Mbps

_			
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
2412.00	93.36 (PK)	Н	E 1 1-E
2412.00	93.42 (PK)	V	Fundamental Frequency
4824.00	46.35 (PK)	Н	74(Peak)/ 54(AV)
4824.00	48.59 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

#### Operation Mode: Keeping Transmitting under CH06 for 11n HT20 at 65Mbps

			_
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2437.00	92.55 (PK)	Н	Fundamental Frequency
2437.00	92.51 (PK)	V	Fundamental Frequency
4874.00	47.54 (PK)	Н	74(Peak)/ 54(AV)
4874.00	47.19 (PK)	V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

The report refers only to the sample tested and does not apply to the bulk.

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Report No: 1402060 Page 30 of 98

Date: 2014-03-12



# Operation Mode: Keeping Transmitting under CH11 for 11n HT20 at 65Mbps

_			
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2462.00	91.69 (PK)	Н	Evendom antal Engavanav
2462.00	91.81 (PK)	V	Fundamental Frequency
4924	48.69 (PK)	Н	74(Peak)/ 54(AV)
4924	47.64 (PK)	V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

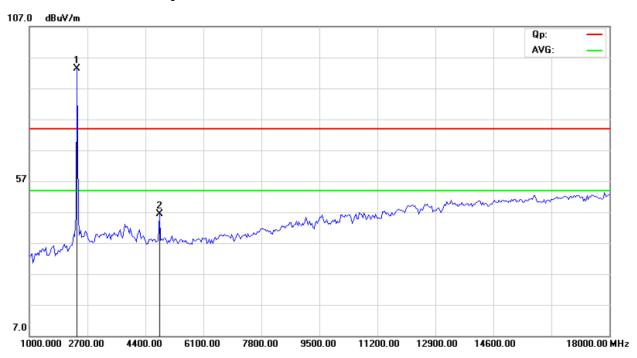
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

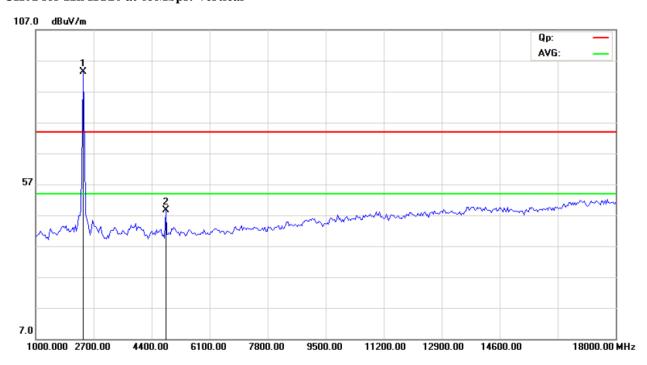


Please refer to the following test plots for details:

# CH01 for 11n HT20 at 65Mbps: Horizontal



## CH01 for 11n HT20 at 65Mbps: Vertical



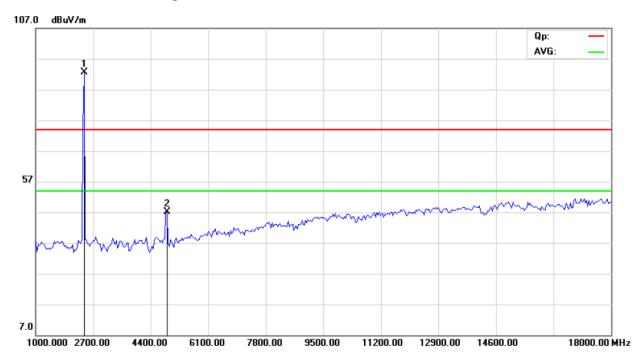
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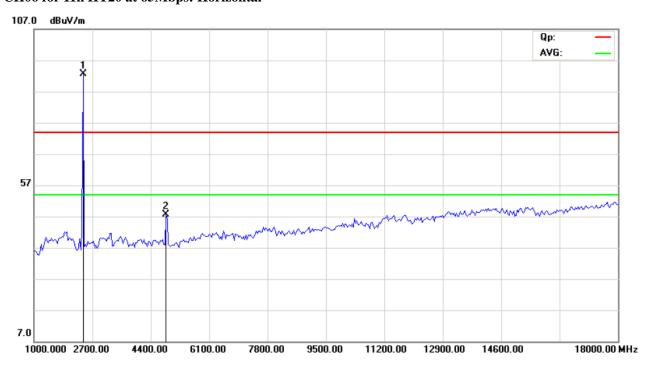
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## CH06 for 11n HT20 at 65Mbps: Vertical



# CH06 for 11n HT20 at 65Mbps: Horizontal



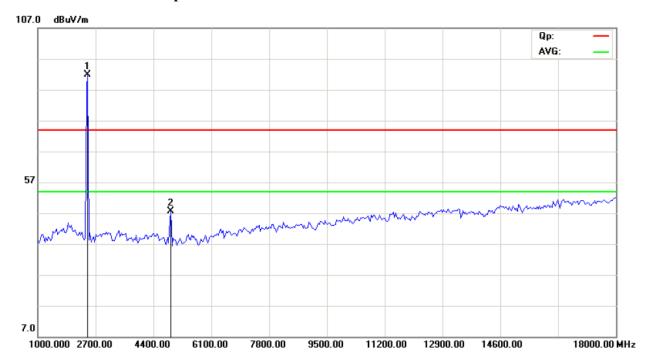
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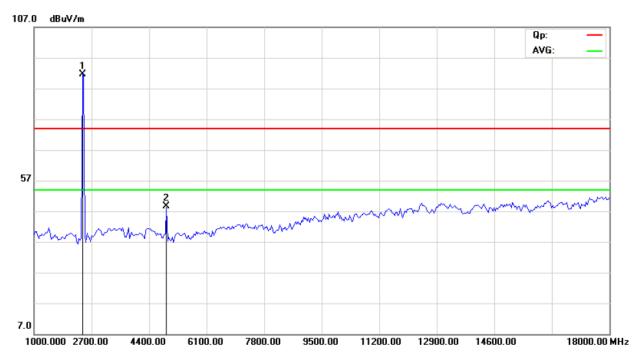
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## CH11 for 11n HT20 at 65Mbps: Vertical



#### CH11 for 11n HT20 at 65Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Report No: 1402060 Page 34 of 98

Date: 2014-03-12



## Operation Mode: Transmitting under CH01 for 11n HT40 at 65Mbps

			_
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
2422.00	88.51 (PK)	Н	Even dominantal Empayanay
2422.00	88.44 (PK)	V	Fundamental Frequency
4844.00	47.01 (PK)	Н	74(Peak)/ 54(AV)
4844.00	48.77 (PK)	V	74(Peak)/ 54(AV)
7266.00		H/V	74(Peak)/ 54(AV)
9688.00		H/V	74(Peak)/ 54(AV)
12110		H/V	74(Peak)/ 54(AV)
14532		H/V	74(Peak)/ 54(AV)
16954		H/V	74(Peak)/ 54(AV)
19376		H/V	74(Peak)/ 54(AV)
21798		H/V	74(Peak)/ 54(AV)
24220		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

#### Operation Mode: Transmitting under CH04 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \( \mu \) V/m)
2437.00	89.72 (PK)	Н	Fundamental Frequency
2437.00	89.65 (PK)	V	
4874.00	46.16 (PK)	Н	74(Peak)/ 54(AV)
4874.00	47.53 (PK)	V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059	-	H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

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Report No: 1402060 Page 35 of 98

Date: 2014-03-12



# Operation Mode: Transmitting under CH7 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
2452.00	90.60 (PK)	Н	Fundamental Frequency
2452.00	90.56 (PK)	V	
4904	47.32 (PK)	Н	74(Peak)/ 54(AV)
4904	47.58 (PK)	V	74(Peak)/ 54(AV)
7356		H/V	74(Peak)/ 54(AV)
9808		H/V	74(Peak)/ 54(AV)
12260		H/V	74(Peak)/ 54(AV)
14712		H/V	74(Peak)/ 54(AV)
17164		H/V	74(Peak)/ 54(AV)
19616		H/V	74(Peak)/ 54(AV)
22068		H/V	74(Peak)/ 54(AV)
24520		H/V	74(Peak)/ 54(AV)

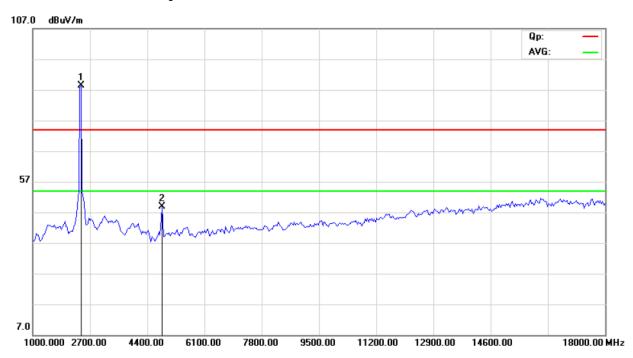
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

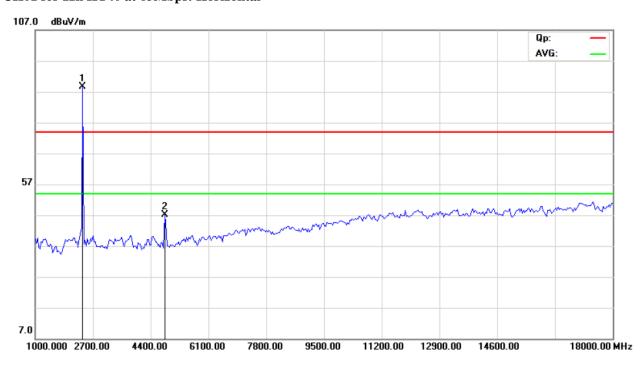


Please refer to the following test plots for details:

# CH01 for 11n HT40 at 65Mbps: Vertical



## CH01 for 11n HT40 at 65Mbps: Horizontal



The report refers only to the sample tested and does not apply to the bulk.

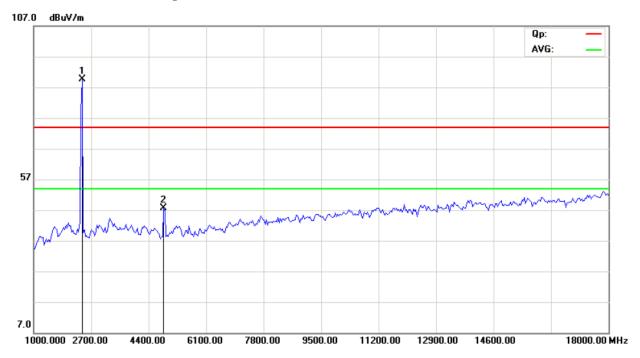
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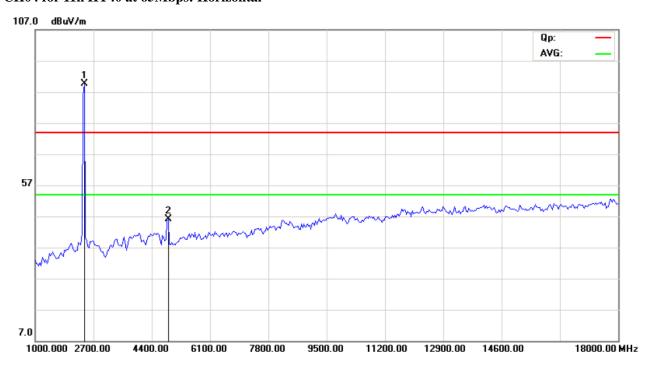
Report No: 1402060 Date: 2014-03-12



## CH04 for 11n HT40 at 65Mbps: Vertical



## CH04 for 11n HT40 at 65Mbps: Horizontal



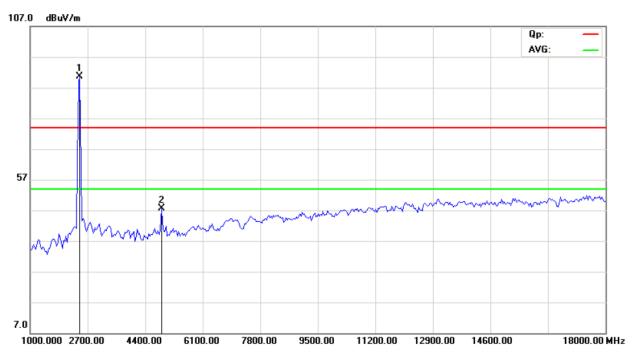
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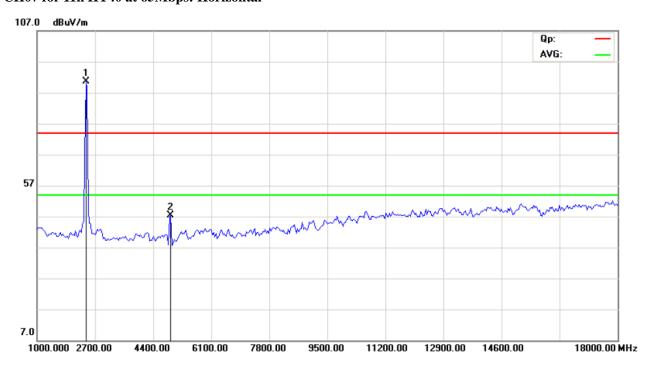
Report No: 1402060 Date: 2014-03-12



## CH07 for 11n HT40 at 65Mbps: Vertical



## CH07 for 11n HT40 at 65Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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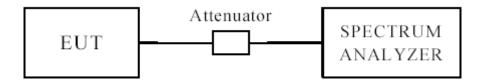
Report No: 1402060 Page 39 of 98

Date: 2014-03-12



## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



#### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

#### 7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.4 Test Result

Report No: 1402060 Page 40 of 98

Date: 2014-03-12



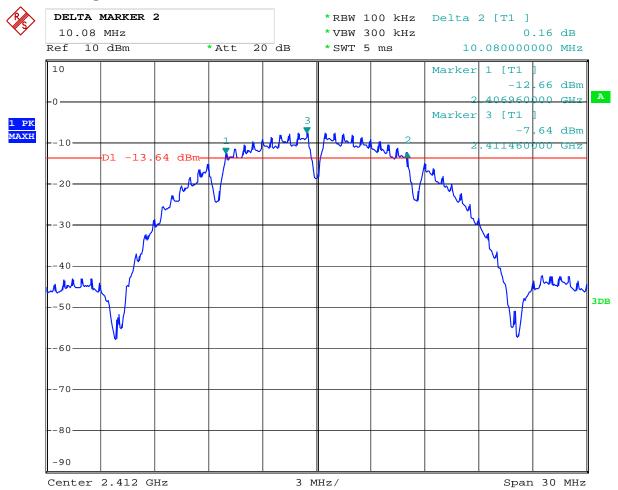
## 6dB Occupied Bandwidth

EUT	EUT		et PC/MID		Model		1PAD7	777PK, 1PAD777
Mode	Mode		302.11b		Input Voltage		AC120V	
Temperati	ure	24	4 deg. C,		Humidity			56% RH
Channel		Channel Frequency (MHz) Data  Transfer 6 dB Bar  (MHz) Rate (MHz)  (Mbps)			Minimum Limit (MHz)		Pass/ Fail	
1		2412 1 1		10	0.08		0.5	Pass
6		2437	1	10	10.08		0.5	Pass
11		2462	1	10	10.08		0.5	Pass
1		2412	11	9.	48	0.5		Pass
6		2437	11	9.	9.48		0.5	Pass
11		2462	11	11 9.			0.5	Pass

Report No: 1402060 Page 41 of 98

Date: 2014-03-12

## 1. 802.11b at 1Mbps of CH01

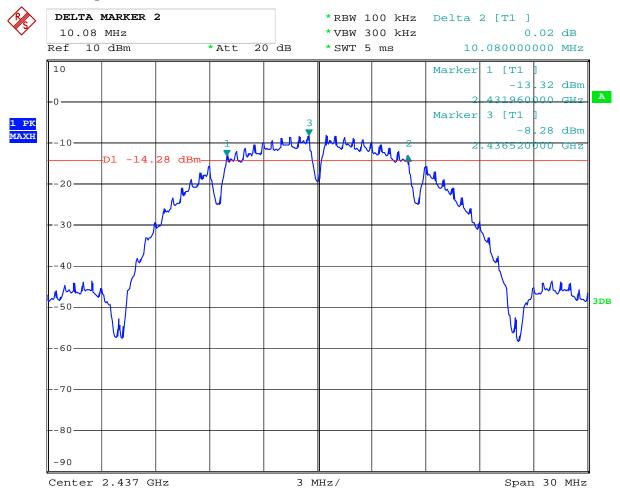


Date: 12.MAR.2014 10:48:25 Report No: 1402060 Page 42 of 98

Date: 2014-03-12



## 2. 802.11b at 1Mbps of CH06



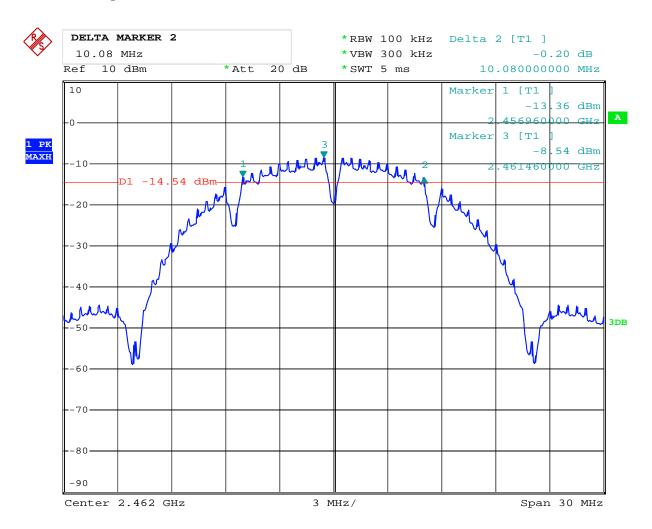
Date: 12.MAR.2014 11:01:17

Report No: 1402060 Page 43 of 98

Date: 2014-03-12



## 3. 802.11b at 1Mbps of CH11



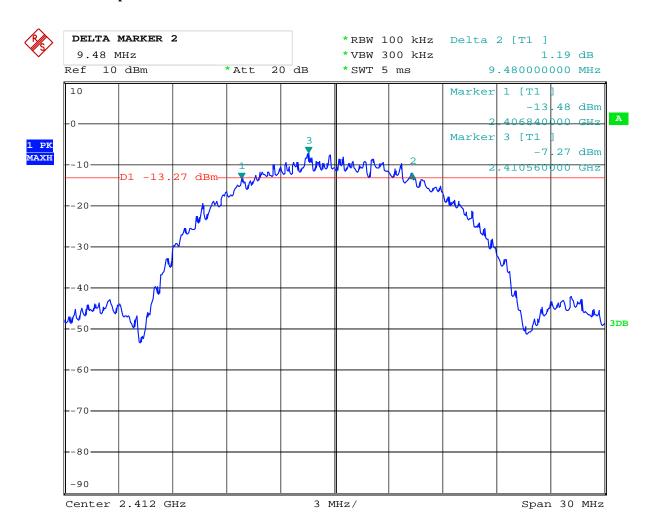
Date: 12.MAR.2014 11:02:44

Report No: 1402060 Page 44 of 98

Date: 2014-03-12



## 4. 802.11b at 11Mbps of CH01



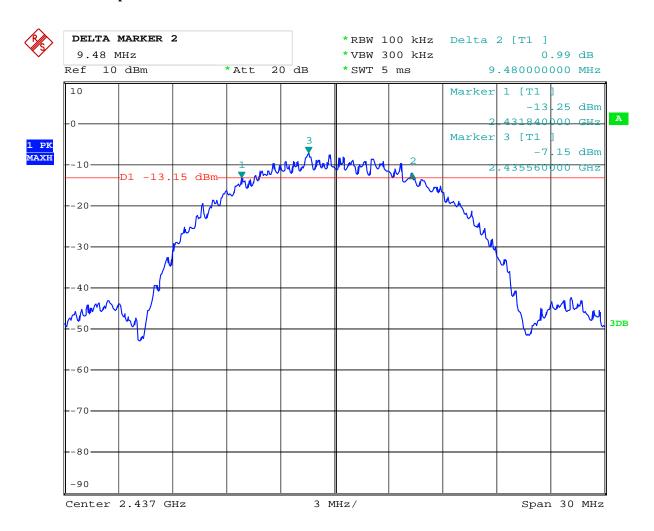
Date: 12.MAR.2014 10:58:46

Report No: 1402060 Page 45 of 98

Date: 2014-03-12



## 5. 802.11b at 11Mbps of CH06



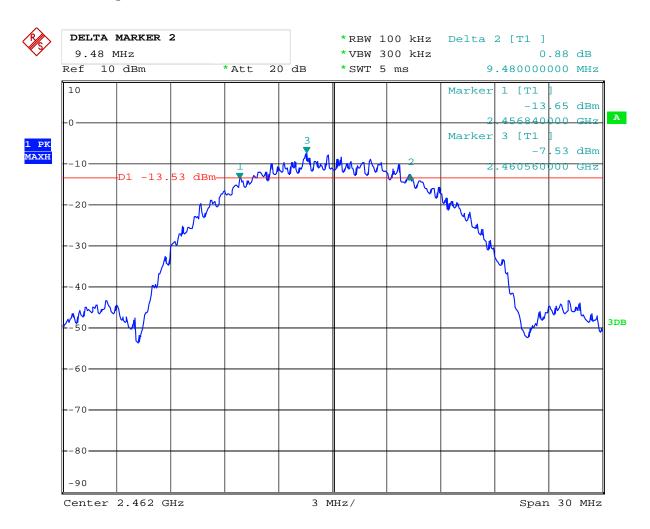
Date: 12.MAR.2014 10:57:28

Report No: 1402060 Page 46 of 98

Date: 2014-03-12



## 6. 802.11b at 11Mbps of CH11



Date: 12.MAR.2014 11:05:51

Report No: 1402060 Page 47 of 98

Date: 2014-03-12



## 6dB Occupied Bandwidth

EUT		Tabl	et PC/MID		Model		1PAD777PK, 1PAD777			
Mode		8	802.11g		Input Vol	tage		AC120V		
Temperati	ure	24	Humidity			56% RH				
Channel		el Frequency (MHz)	Data Transfer 6 dB Bandwid Rate (MHz) (Mbps)			Minimum Limit (MHz)		Pass/ Fail		
1		2412	6	16	.56		0.5	Pass		
6		2437	6	16	.56	56		Pass		
11		2462	6	16	16.56		56		0.5	Pass

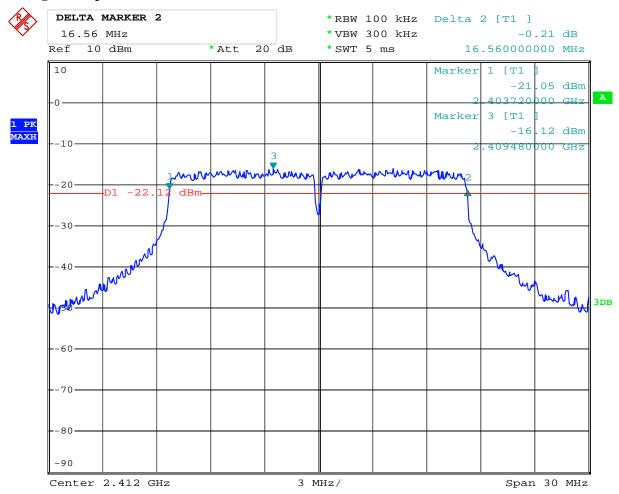
Report No: 1402060 Page 48 of 98

Date: 2014-03-12



### **Test Plots:**

## 1. 802.11g at 6Mbps of CH01



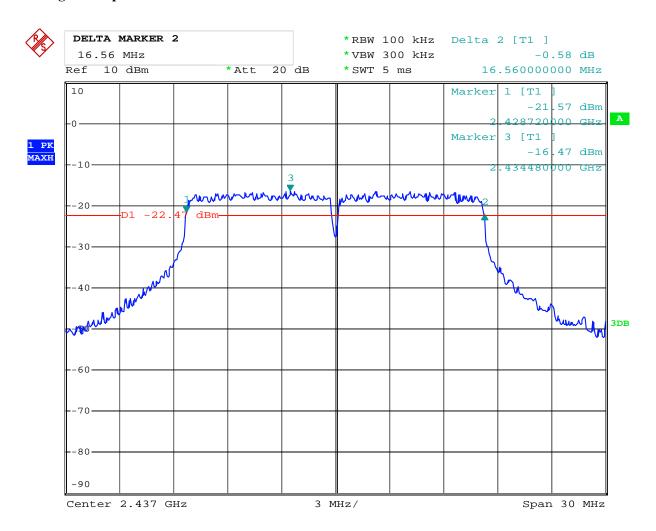
Date: 12.MAR.2014 10:50:26

Report No: 1402060 Page 49 of 98

Date: 2014-03-12



## 2. 802.11g at 6Mbps of CH06



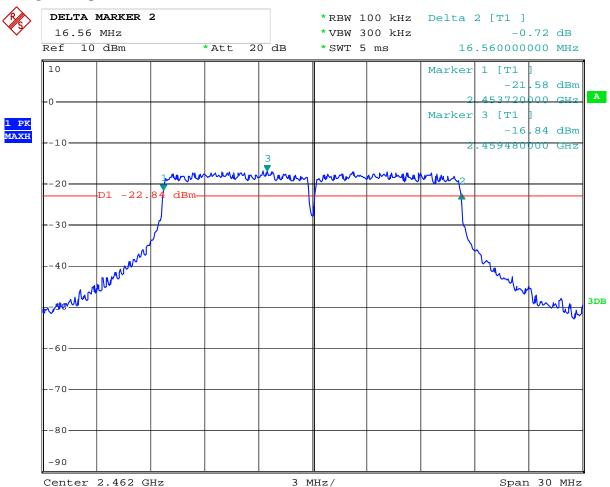
Date: 12.MAR.2014 11:00:16

Report No: 1402060 Page 50 of 98

Date: 2014-03-12



## 3. 802.11g at 6Mbps of CH11



Date: 12.MAR.2014 11:03:53

Report No: 1402060 Page 51 of 98

Date: 2014-03-12



## 6dB Occupied Bandwidth

EUT		Tabl	et PC/MID		Model		1PAD7	777PK, 1PAD777
Mode		802.111	n HT20/HT	40	Input Vol	tage	e AC120V	
Temperati	ure	24	4 deg. C,		Humidity	,		56% RH
Channel		el Frequency (MHz)	Data  Lency Transfer 6 dB Bar  Rate (MF  (Mbps)			Minimum Limit (MHz)		Pass/ Fail
1		2412 65 17		.76 0.5		Pass		
6		2437 65		17	17.76		0.5	Pass
11		2462	65	17	7.76		0.5	Pass
1		2422	65	36	.50	50 0		Pass
4		2437	65	36	.40	40		Pass
7		2452	65	65 36		0.5		Pass

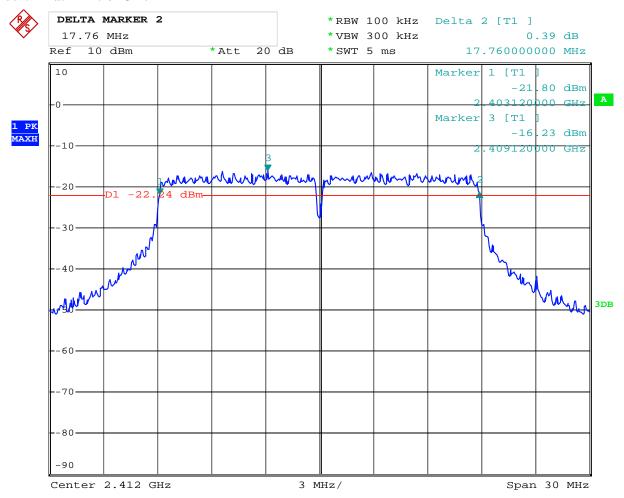
Report No: 1402060 Page 52 of 98

Date: 2014-03-12



### **Test Plots:**

### 1. 802.11n at HT20 of CH01



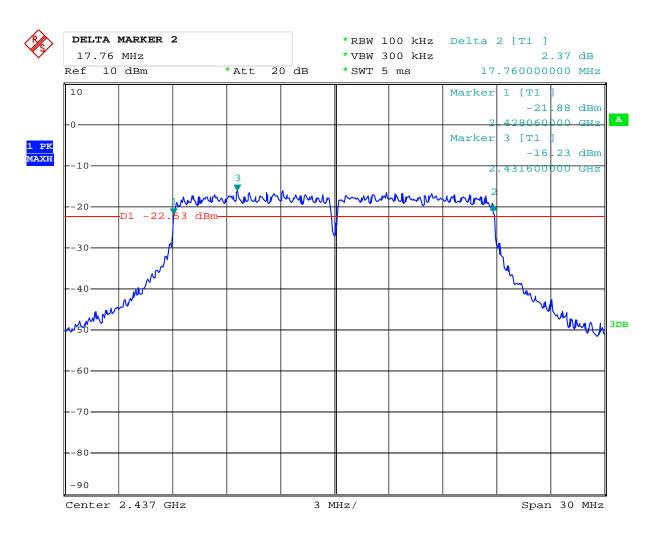
Date: 12.MAR.2014 10:54:54

Report No: 1402060 Page 53 of 98

Date: 2014-03-12



### 2. 802.11n at HT20 of CH06



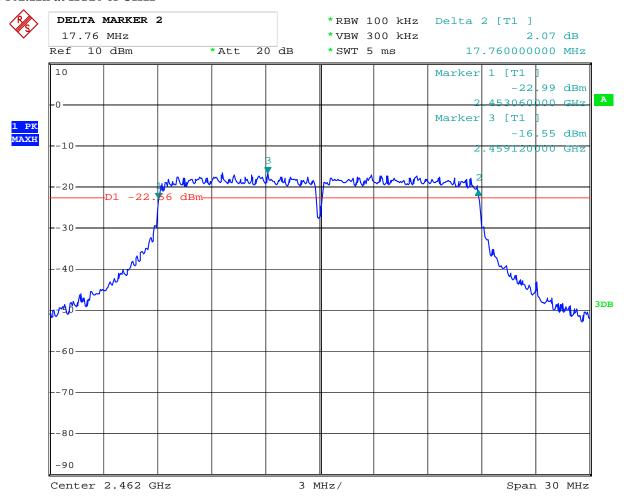
Date: 12.MAR.2014 10:56:08

Report No: 1402060 Page 54 of 98

Date: 2014-03-12



### 3. 802.11n at HT20 of CH11



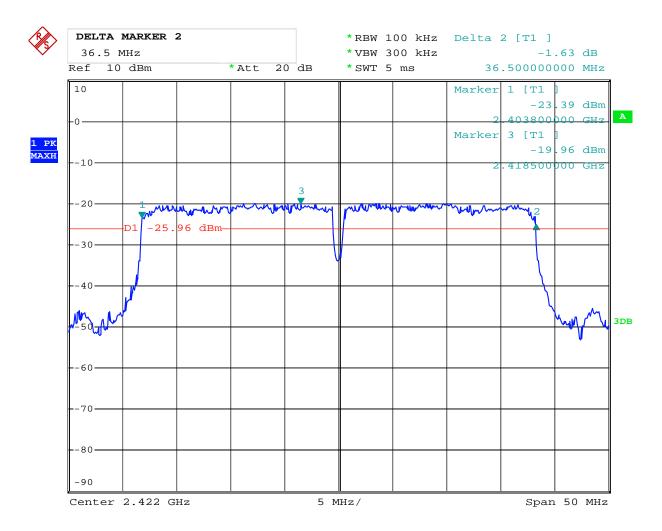
Date: 12.MAR.2014 11:06:58

Report No: 1402060 Page 55 of 98

Date: 2014-03-12



### 4. 802.11n at HT40 of CH01



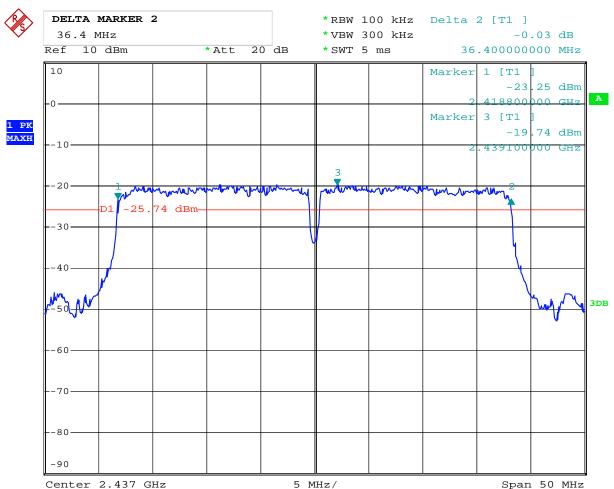
Date: 12.MAR.2014 11:08:49

Report No: 1402060 Page 56 of 98

Date: 2014-03-12



### 5. 802.11n at HT40 of CH04



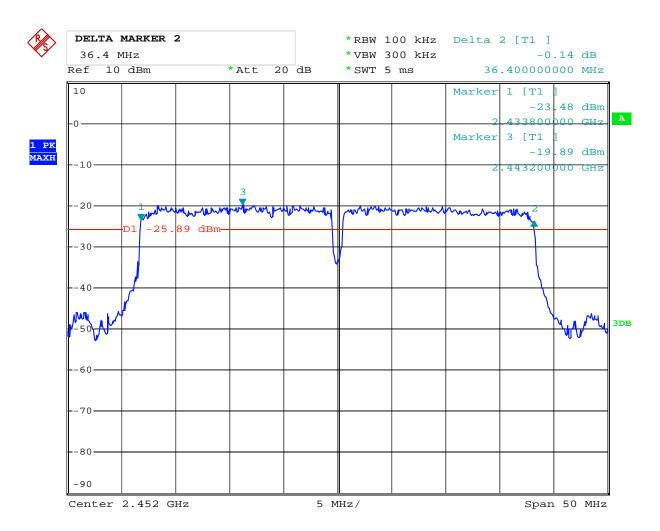
Date: 12.MAR.2014 11:10:19

Report No: 1402060 Page 57 of 98

Date: 2014-03-12



### 6. 802.11n at HT40 of CH07



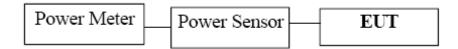
Date: 12.MAR.2014 11:12:23

Report No: 1402060 Page 58 of 98

Date: 2014-03-12

# 8. Maximum Peak Output Power

## 8.1 Test Setup



# 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

### **8.3 Test Procedure**

The RF power output was measured with a Power meter connected to the RF Antenna connector ( conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured

Page 59 of 98

Report No: 1402060 Date: 2014-03-12



### **8.4Test Results**

EUT	Tablet PC/MID	Model	1PAD777PK, 1PAD777			
Mode	802.11b	Input Voltage	AC120V			
Temperature	24 deg. C,	Humidity	56% RH			
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail		
1	2412	5.82	30	Pass		
6	2437	5.93	30	Pass		
11	2462	5.70	30	Pass		

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT	JT Tablet PC/MI		MID Model			1PAD777PK, 1PAD777		
Mode	Mode 802.11g		Input Voltage		е	AC120V		
Temperati	Temperature 24 deg. C, Humidity			56% RH				
Channel	Cha	annel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit (dBm)	Pass/ Fail		
1		2412		3.28	30	Pass		
6		2437		3.44	30	Pass		
11		2462		3.18	30	Pass		

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

- 2. The result basic equation calculation as follow:

  Peak Power Output = Peak Power Reading + Cable loss + Attenuator
- 3. The worse case was recorded

Page 60 of 98

Report No: 1402060 Date: 2014-03-12



EUT		Tablet PC/N	1ID	Model		1PAD777PK, 1PAD777		
Mode		802.11n (HT20)		Input Voltage	e	AC120V		
Temperature		24 deg. C	Humidity		56% RH			
GI I	Channel Frequency Peak		Peak Po	ower Output	Peak Power	Pass/ Fail		
Channel		(MHz)	(dBm)		Limit (dBm)			
1		2412		3.75	30	Pass		
6		2437		3.83	30	Pass		
11		2462		3.66	30	Pass		

Note: 1. At finial test to get the worst-case emission at 11n HT20 for CH01, CH06 and CH11

The result basic equation calculation as follow:
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		Tablet PC/MID	Model			1PAD777PK, 1PAD777	
Mode		802.11n (HT40)	Input Voltage		AC120V		
Temperatu	re	24 deg. C,	Humidity		56% RH		
Channel	Ch	annel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit dBm)	Pass/ Fail	
1		2422	3.47		30	Pass	
4		2437	3.43		30	Pass	
7		2452	3.25		30	Pass	

Note: 1. At finial test to get the worst-case emission at 11n HT40 for CH01, CH04 and CH07

- The result basic equation calculation as follow:
   Peak Power Output = Peak Power Reading + Cable loss + Attenuator
- 3. The worse case was recorded

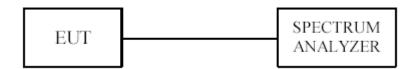
Report No: 1402060 Page 61 of 98

Date: 2014-03-12



# 9. Power Spectral Density Measurement

## 9.1 Test Setup



# 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

#### 9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW  $\geq$  30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be  $\leq 8$  dBm.

Report No: 1402060 Page 62 of 98

Date: 2014-03-12



### 9.4Test Result

EUT		Tablet PC/MID	Model		1PAD777PK, 1PAD777		
Mode		802.11b 11Mbps	Input Volta	Input Voltage		AC120V	
Temperat	ure	24 deg. C,	Humidity	y		56% RH	
Channel Cha		annel Frequency (MHz)	Final Power Spectral Density (dBm)		imum Limit (dBm)	Pass/ Fail	
			11M	bps			
1		2412	-17.34	8		Pass	
6		2437	-17.16	8		Pass	
11		2462	-17.38	8		Pass	

EUT		Tablet PC/MID		Мо	odel	1PAD777PK, 1PAD777		
Mode		802.11b 1Mbps		Input Voltage		AC120V		
Temperati	ure	24 deg. C,		Humidity			56% RH	
Channel	Channel Frequency (MHz)		I Sj D	Final Power pectral Pensity (dBm)	Maximur (dB	-	Pass/ Fail	
					1Mbps			
1		2412	-18.98		8	•	Pass	
6		2437	-	18.87	8	•	Pass	
11		2462	-	19.13	8		Pass	

Report No: 1402060 Date: 2014-03-12



EUT		Tablet PC/MID		Model		1PAD777PK, 1PAD777			
Mode		802.11g 6Mbps		Input Volta	ge	AC120V			
Temperature		24 deg. C,		Humidity			56% RH		
Channel	Ch	annel Frequency (MHz)	Final Power ency Spectral Density (dBm)		L	kimum imit Bm)	Pass/ Fail		
				6Mbp	S				
1		2412		-24.73		8	Pass		
6		2437		-24.70		8	Pass		
11		2462		-25.06		8	Pass		

EUT	EUT Tablet PC/MI		ID Me		odel		1PAD777PK, 1PAD777
Mode	Mode 802.11n HT20 6		Mbps	Input	Input Voltage		AC120V
Temperat	Temperature 24 deg. C, Humidity			56% RH			
Channel	(MHz) Den		ctral	Maximum Limit (dBm)		Pass/ Fail	
				Н	T20		
1	2412 -24		.36	8		Pass	
6		2437	-24	.07	8		Pass
11		2462	-24	.25	8		Pass

EUT	EUT Tablet PC/M		ID Me		odel		1PAD777PK, 1PAD777	
Mode		802.11n HT40 65Mbps		Input	Input Voltage		AC120V	
Temperat	ure	24 deg. C,		Humidity		56% RH		
Channel	Ch	annel Frequency (MHz)	Spe Der	Final Power Spectral M Density (dBm)		m Limit m)	Pass/ Fail	
				Н	T40			
1		2422	-26.11		8		Pass	
4		2437	-25.75		8		Pass	
7		2452	-26	5.17	8		Pass	

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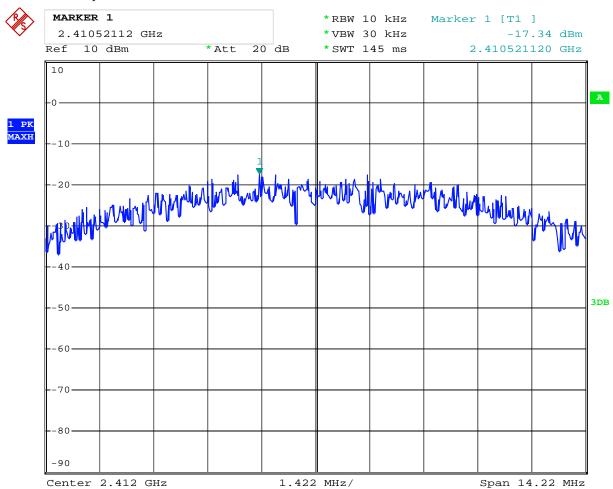
Report No: 1402060 Page 64 of 98

Date: 2014-03-12



## 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



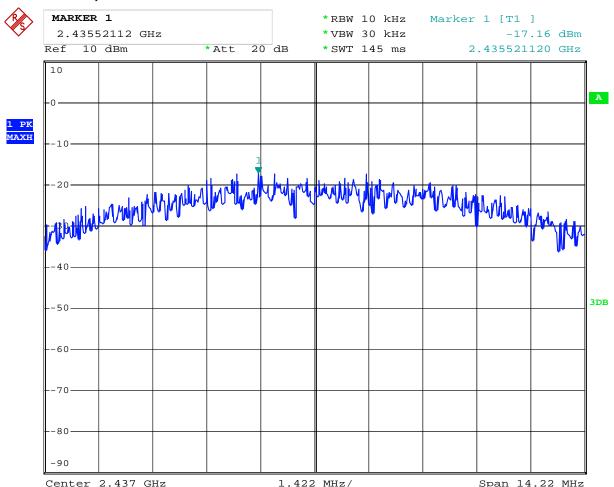
Date: 12.MAR.2014 12:08:06

Report No: 1402060 Page 65 of 98

Date: 2014-03-12



### 2. 802.11b at 11Mbps at CH06



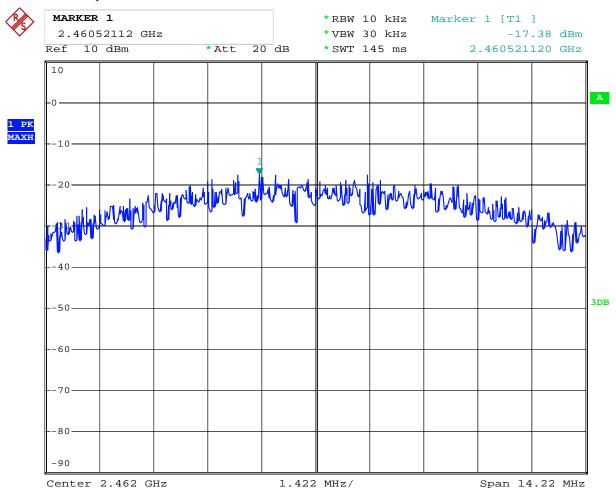
Date: 12.MAR.2014 12:15:48

Report No: 1402060 Page 66 of 98

Date: 2014-03-12



## 3. 802.11b at 11Mbps of CH11



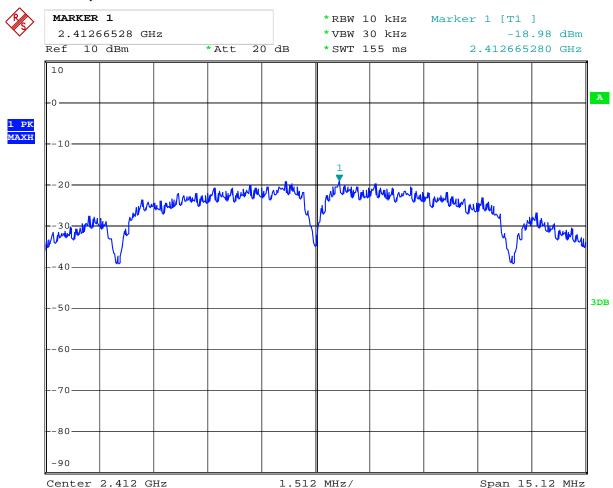
Date: 12.MAR.2014 12:16:24

Report No: 1402060 Page 67 of 98

Date: 2014-03-12



## 4. 802.11b at 1Mbps of CH1



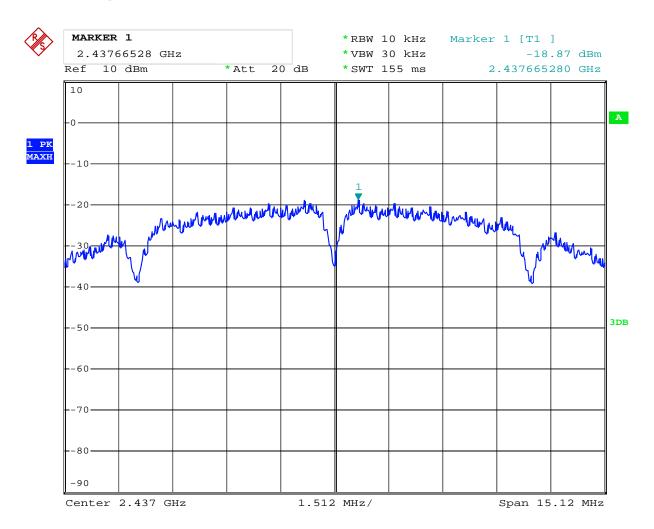
Date: 12.MAR.2014 12:06:07

Report No: 1402060 Page 68 of 98

Date: 2014-03-12



## 5. 802.11b at 1Mbps of CH6



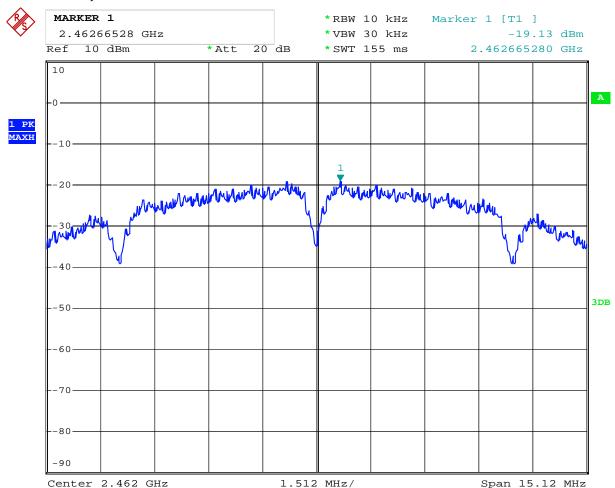
Date: 12.MAR.2014 12:19:07

Report No: 1402060 Page 69 of 98

Date: 2014-03-12



## 6. 802.11b at 1Mbps of CH11



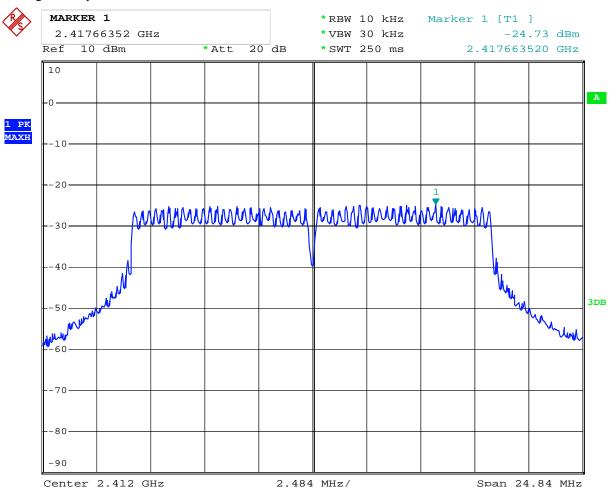
Date: 12.MAR.2014 12:19:40

Report No: 1402060 Page 70 of 98

Date: 2014-03-12



## 7. 802.11g at 6Mbps of CH1



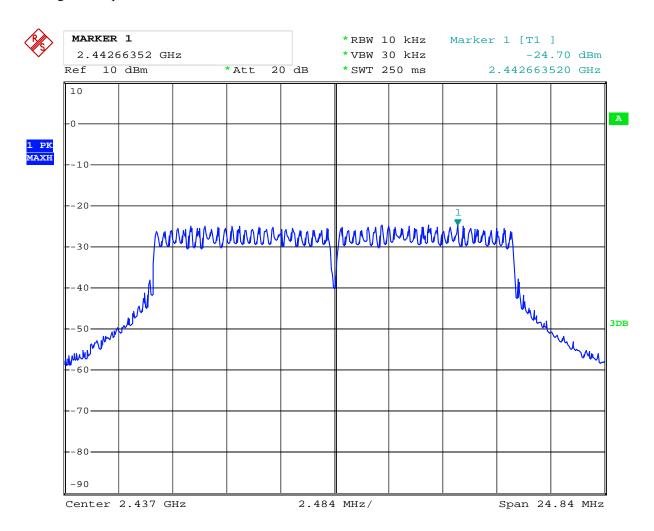
Date: 12.MAR.2014 12:07:17

Report No: 1402060 Page 71 of 98

Date: 2014-03-12



## 8. 802.11g at 6 Mbps of CH6



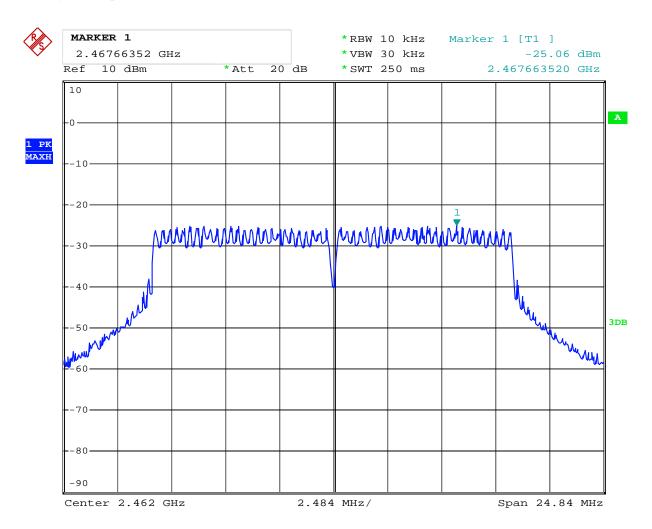
Date: 12.MAR.2014 12:17:57

Report No: 1402060 Page 72 of 98

Date: 2014-03-12



## 9. 802.11g at 6 Mbps of CH11



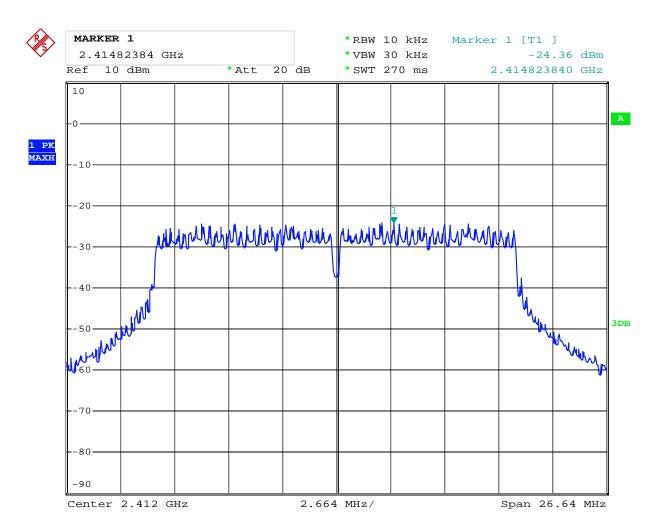
Date: 12.MAR.2014 12:17:17

Report No: 1402060 Page 73 of 98

Date: 2014-03-12



#### 10. 802.11n at HT20 of CH01



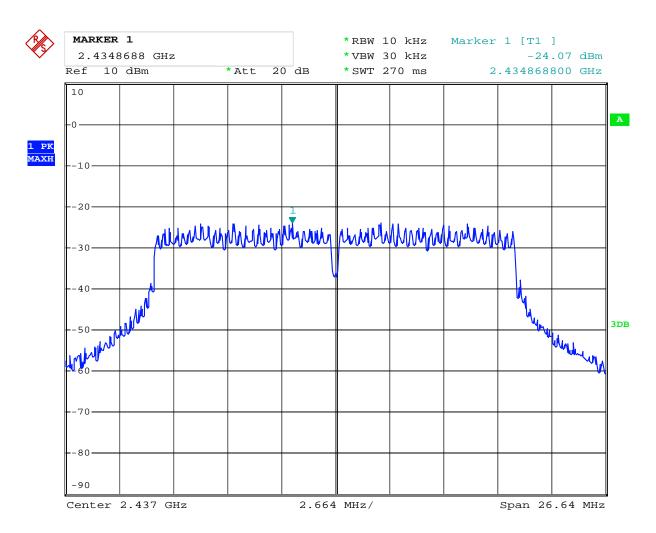
Date: 12.MAR.2014 12:09:11

Report No: 1402060 Page 74 of 98

Date: 2014-03-12



#### 11. 802.11n at HT20 of CH06



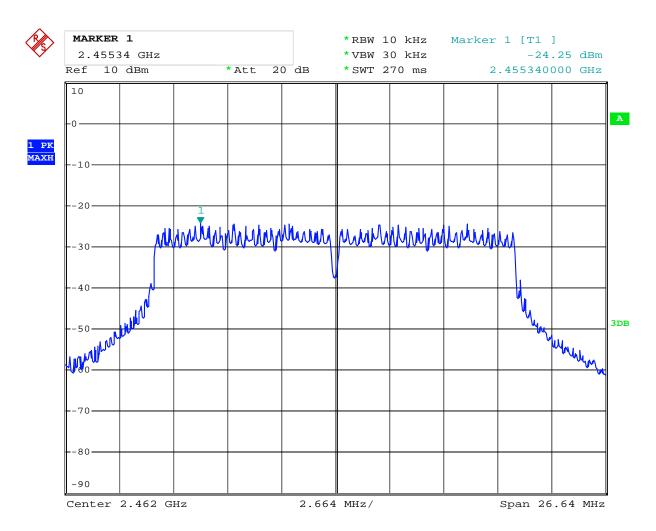
Date: 12.MAR.2014 12:10:45

Report No: 1402060 Page 75 of 98

Date: 2014-03-12



#### 12. 802.11n at HT20 of CH11



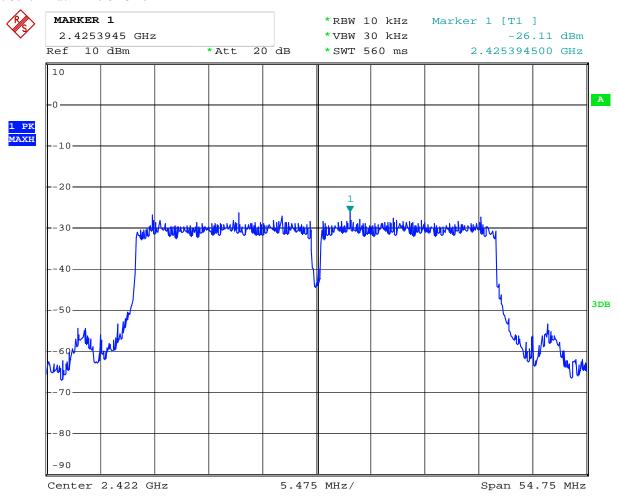
Date: 12.MAR.2014 12:21:45

Report No: 1402060 Page 76 of 98

Date: 2014-03-12



## 13. 802.11n at HT40 of CH01



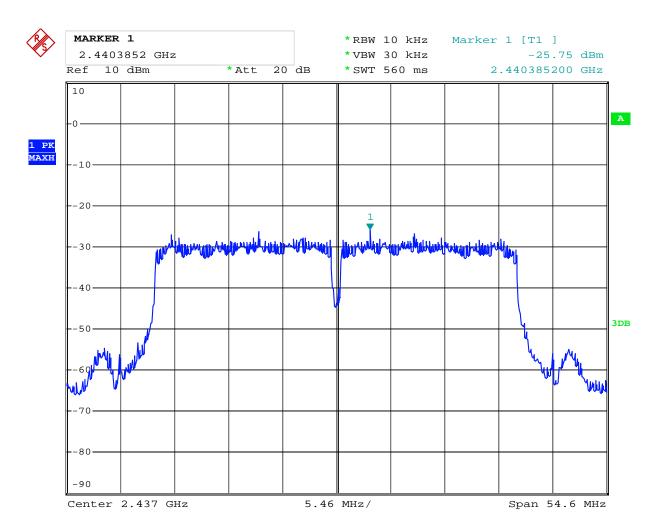
Date: 12.MAR.2014 12:14:34

Report No: 1402060 Page 77 of 98

Date: 2014-03-12



## 14. 802.11n at HT40 of CH04



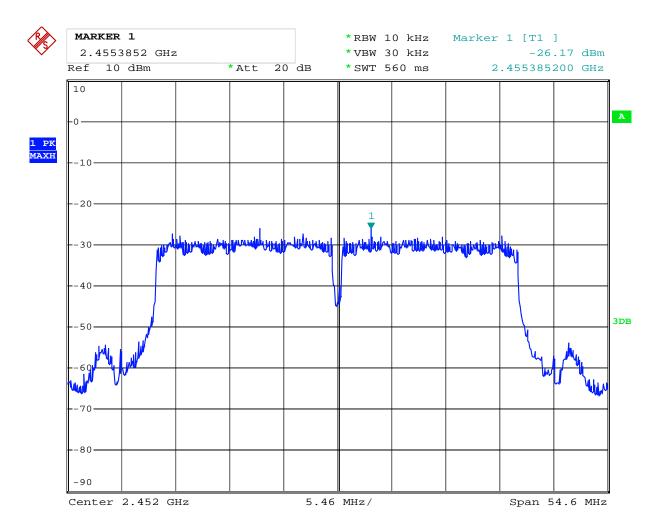
Date: 12.MAR.2014 12:12:09

Report No: 1402060 Page 78 of 98

Date: 2014-03-12



## 15. 802.11n at HT40 of CH07



Date: 12.MAR.2014 12:13:00

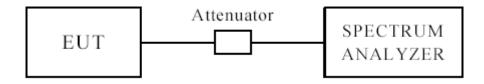
Report No: 1402060 Page 79 of 98

Date: 2014-03-12



## **10 Out of Band Measurement**

# 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

## 10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### **10.3 Test Procedure**

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

## 10.4 Test Result

Please see next pages

Note: 1. this is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.



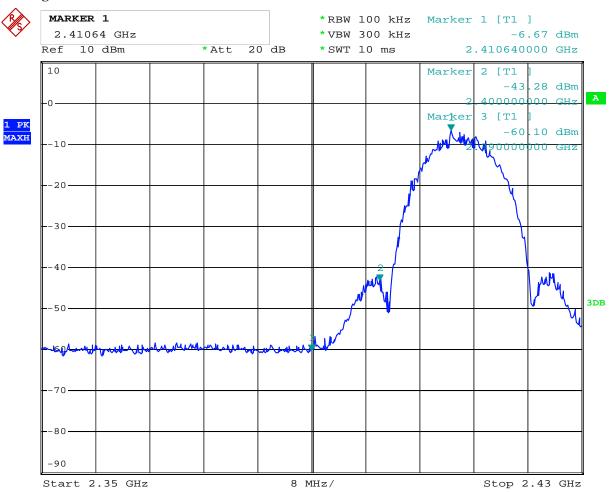
## For 802.11b mode

## CH01 at 11Mbps

**10.4** Band-edge and Restricted band Measurement

2001 —							
EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777			
Mode	Keeping Transmitting		Input Voltage	AC120V			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
2400	PK (dBμV/m)	46.8	T ::4	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$			
2390	PK (dBμV/m)	38.0	Limit	$74(dB\mu V/m)$			
	AV (dBμV/m)		LIIIII	$54(dB\mu V/m)$			

## **Test Figure:**



Date: 12.MAR.2014 14:55:59

Page 81 of 98

Report No: 1402060 Date: 2014-03-12

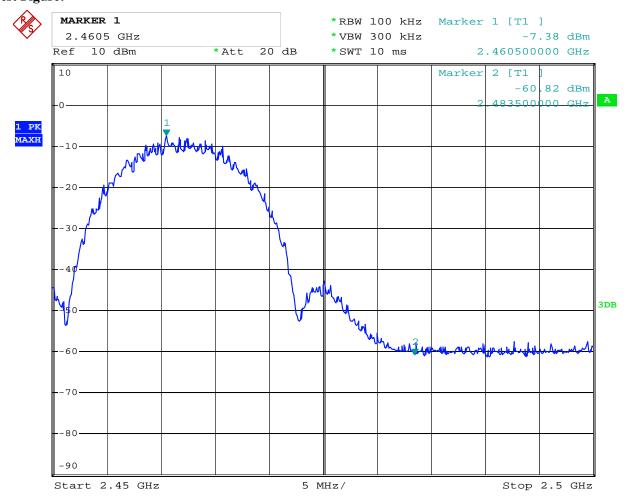


## CH11 at 11Mbps

**10.4** Band-edge and Restricted band Measurement

EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777
Mode	Keeping Transmitting		Input Voltage	AC120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m) 44.5		T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 12.MAR.2014 15:03:53



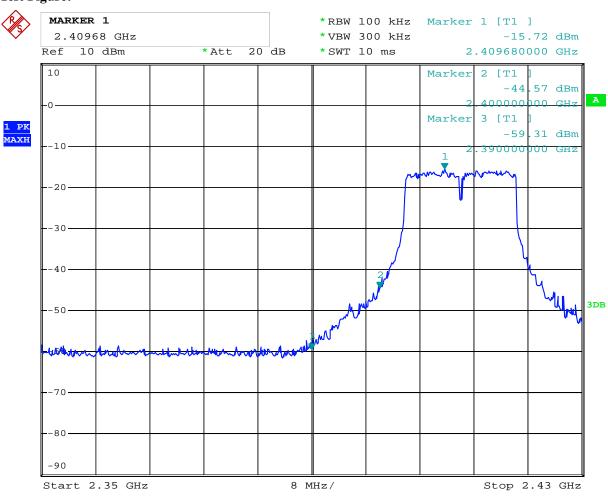
## For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Tablet PC/MID		Model		1PAD777PK, 1PAD777
Mode	Keeping Trans	ransmitting		Voltage	AC120V
Temperature	24 deg. (	Ξ,	Humidity		56% RH
Test Result:	Pass	De		etector	PK
2400	PK (dBµV/m)	47.6		Limit	$74(dB\mu V/m)$
	AV (dBμV/m)			Lillit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	37.9		Limit	74(dBμV/m)
	$AV (dB\mu V/m)$			Lillit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 12.MAR.2014 14:55:05

Page 83 of 98

Report No: 1402060 Date: 2014-03-12

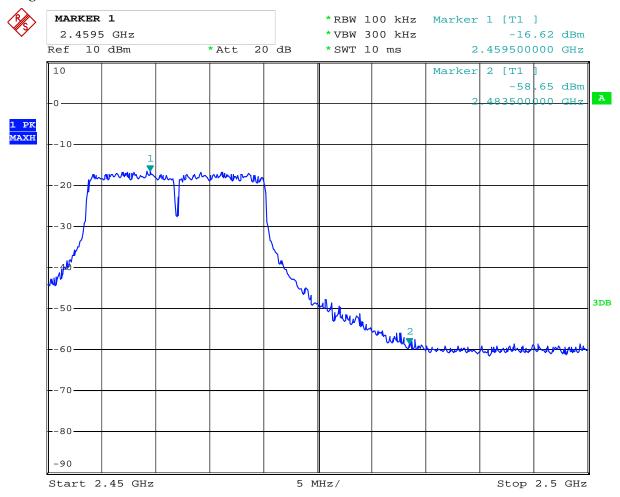


## CH11 at 6Mbps

### **10.4** Band-edge and Restricted band Measurement

EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777
Mode	Keeping Transmitting		Input Voltage	AC120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m) 45.1		T ::4	$74(dB\mu V/m)$
	AV ( $dB\mu V/m$ )		Limit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 12.MAR.2014 15:03:06



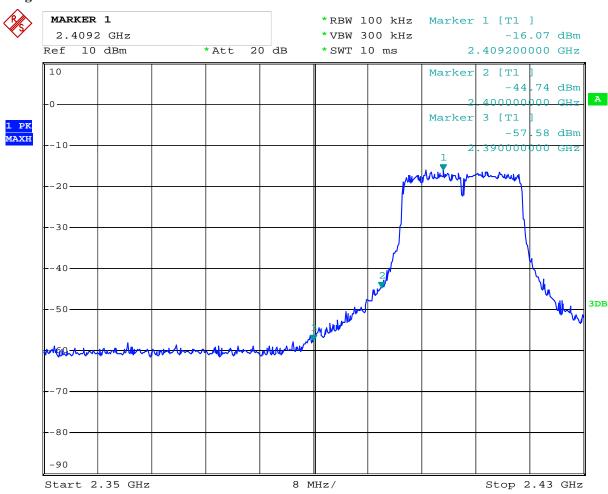
## For 802.11n (HT20) mode

## CH01 at 65Mbps

**10.4** Band-edge and Restricted band Measurement

2011 2010 0080 und 100011000 0011 11000010110110						
EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777		
Mode	Keeping Transmitting		Input Voltage	AC120V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
2400	PK (dBµV/m)	48.9	Limit	$74(dB\mu V/m)$		
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$		
2390	PK (dBµV/m)	39.2	Limit	$74(dB\mu V/m)$		
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$		

## **Test Figure:**



Date: 12.MAR.2014 14:59:06

Page 85 of 98

Report No: 1402060 Date: 2014-03-12

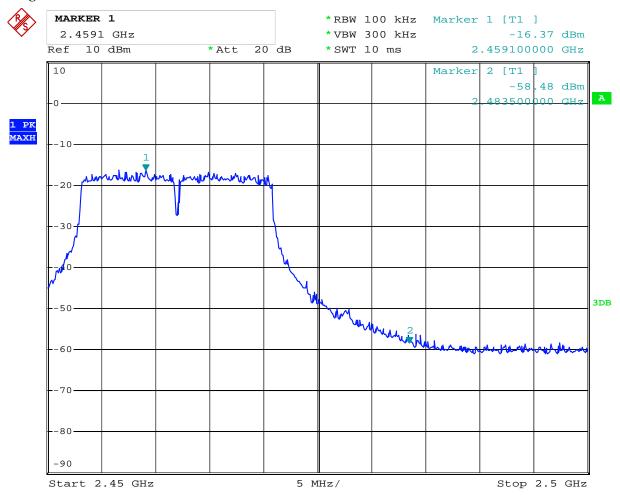


## CH11 at 65Mbps

#### **10.4** Band-edge and Restricted band Measurement

EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777
Mode	Keeping Transmitting		Input Voltage	AC120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m) 45.1		T ::4	$74(dB\mu V/m)$
	AV ( $dB\mu V/m$ )		Limit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 12.MAR.2014 15:04:40



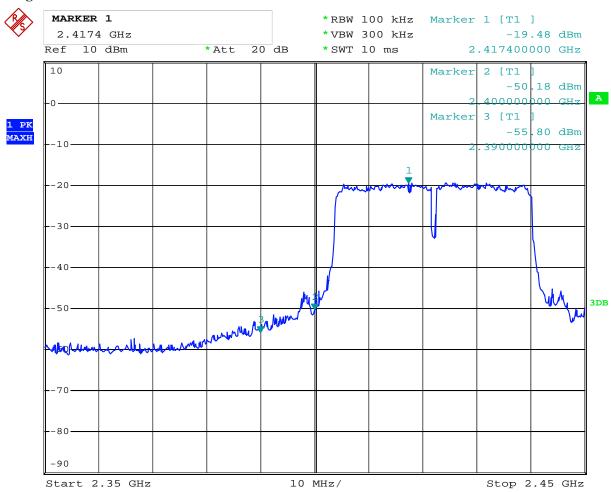
## For 802.11n (HT40) mode

## CH01 at 65Mbps

**10.4** Band-edge and Restricted band Measurement

201. — 0.86 0 0 0							
EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777			
Mode	Keeping Transmitting		Input Voltage	AC120V			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
2400	PK (dBμV/m)	46.6	T ::4	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	54(dBμV/m)			
2390	PK (dBμV/m)	38.1	Limit	74(dBμV/m)			
	AV (dBμV/m)		Limit	54(dBμV/m)			

## **Test Figure:**



Date: 12.MAR.2014 15:00:20

Note: The Max. FS in Restrict Band are measured in conventional method.

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Page 87 of 98

Report No: 1402060 Date: 2014-03-12

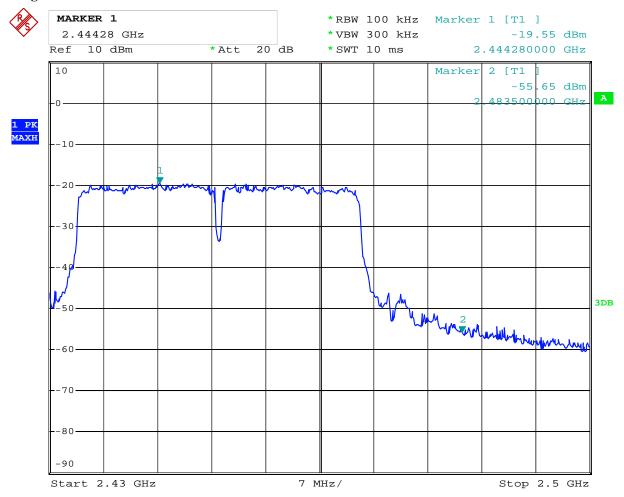


## CH7 at 65Mbps

#### **10.4** Band-edge and Restricted band Measurement

EUT	Tablet PC/MID		Model	1PAD777PK, 1PAD777
Mode	Keeping Transmitting		Input Voltage	AC120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	PK (dBμV/m) 44.9		$74(dB\mu V/m)$
	AV ( $dB\mu V/m$ )		Limit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 12.MAR.2014 15:01:31

Report No: 1402060

Date: 2014-03-12



Page 88 of 98

## 11.0 Antenna Requirement

## 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

## 11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 2.0 dBi.

Report No: 1402060 Page 89 of 98

Date: 2014-03-12



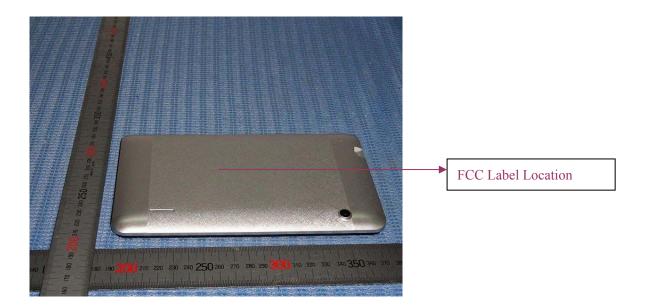
## 12.0 FCC Label

## FCC ID: 2ABWZ-1PAD7

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



Report No: 1402060 Page 90 of 98

Date: 2014-03-12



## 13.0 Photo of testing

Conducted Emission Test Setup:





# Radiated Emission Test Setup:





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Power Supply





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Page 95 of 98

Report No: 1402060 Date: 2014-03-12



## Power Supply





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Report No: 1402060 Date: 2014-03-12



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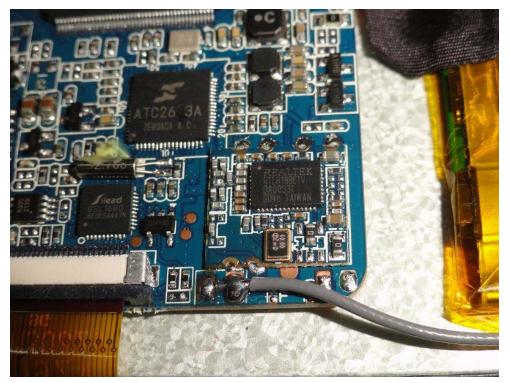
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