FCC Part 15C Measurement and Test Report

For

Shenzhen Top-Tech Technology Co., Ltd.

6/F, Building 2, Nankeng 1st Industrial Zone, Bantian, Longgang District, Shenzhen, China

FCC ID: WZXTOP528

FCC Rules: FCC Part 15C

Product Description: TABLET PC

Tested Model: B736

Report No.: <u>STR13078019I-1</u>

Tested Date: <u>2013-07-02 to 2013-07-11</u>

Issued Date: <u>2013-07-11</u>

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd

TABLE OF CONTENTS

1. GENERAL INFORMATION	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
1.4 TEST FACILITY	4
2. SUMMARY OF TEST RESULTS	6
3. ANTENNA REQUIREMENT	7
3.1 STANDARD APPLICABLE	
4. POWER SPECTRAL DENSITY	8
4.1 STANDARD APPLICABLE 4.2 TEST EQUIPMENT LIST AND DETAILS 4.3 TEST PROCEDURE 4.4 ENVIRONMENTAL CONDITIONS 4.5 SUMMARY OF TEST RESULTS/PLOTS	
5. 6DB BANDWIDTH	15
5.1 STANDARD APPLICABLE 5.2 TEST EQUIPMENT LIST AND DETAILS 5.3 TEST PROCEDURE 5.4 ENVIRONMENTAL CONDITIONS 5.5 SUMMARY OF TEST RESULTS/PLOTS	
6. RF OUTPUT POWER	22
6.1 STANDARD APPLICABLE 6.2 TEST EQUIPMENT LIST AND DETAILS 6.3 TEST PROCEDURE 6.4 ENVIRONMENTAL CONDITIONS 6.5 SUMMARY OF TEST RESULTS/PLOTS	
7. FIELD STRENGTH OF SPURIOUS EMISSIONS	33
7.1 MEASUREMENT UNCERTAINTY 7.2 STANDARD APPLICABLE 7.3 TEST EQUIPMENT LIST AND DETAILS 7.4 TEST PROCEDURE 7.5 CORRECTED AMPLITUDE & MARGIN CALCULATION 7.6 ENVIRONMENTAL CONDITIONS 7.7 SUMMARY OF TEST RESULTS/PLOTS	
8. OUT OF BAND EMISSIONS	57
8.1 STANDARD APPLICABLE 8.2 TEST EQUIPMENT LIST AND DETAILS 8.3 TEST PROCEDURE 8.4 ENVIRONMENTAL CONDITIONS 8.5 SUMMARY OF TEST RESULTS/PLOTS	
9. CONDUCTED EMISSIONS	
9.1 MEASUREMENT UNCERTAINTY 9.2 TEST EQUIPMENT LIST AND DETAILS 9.3 TEST PROCEDURE 9.4 BASIC TEST SETUP BLOCK DIAGRAM 9.5 ENVIRONMENTAL CONDITIONS	
9.6 TEST RECEIVER SETUP	67 67

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Address of manufacturer:

Manufacturer:

Applicant: Shenzhen Top-Tech Technology Co., Ltd.

Address of applicant: 6/F, Building 2, Nankeng 1st Industrial Zone,
Bantian, Longgang District, Shenzhen, China

Shenzhen Top-Tech Technology Co., Ltd. 6/F, Building 2, Nankeng 1st Industrial Zone,

Bantian, Longgang District, Shenzhen, China

General Description of EUT	
Product Name:	TABLET PC
Trade Name:	/
Model No.:	B736
Add Models:	V730, M728, T758, B113S
Rated Voltage:	DC 3.7V Li-ion Battery
Dower Adenter Medel:	SW-050150EU
Power Adapter Model:	(Input: AC 100-240V, Output: DC 5V 1.5A)

Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model B736, but the circuit and the electronic construction do not change, declared by the manufacturer.

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20)
RF Output Power:	7.74dBm (Conducted)
Type of Modulation:	QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels	11 for 802.11b/g/n(HT20)
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	0dBi
Lowest Internal Frequency	32.768 kHz
Device Category:	Portable Device

1.2 Test Standards

The following report is prepared on behalf of the Shenzhen Top-Tech Technology Co., Ltd. in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules

Model: B736

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The public notice KDB 558074 D01 V02 for digital transmission systems shall be performed also.

1.4 Test Facility

• FCC – Registration No.: 994117

SEM.Test Compliance Services Co., Ltd. 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 and the Registration is 994117.

• Industry Canada (IC) Registration No.: 7673A

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

• CNAS Registration No.: L4062

Shenzhen SEM. Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List				
Test Mode	Description	Remark		
TM1	802.11b	2412MHz, 2437MHz, 2462MHz		
TM2	802.11g	2412MHz, 2437MHz, 2462MHz		
TM3	802.11n-HT20	2412MHz, 2437MHz, 2462MHz		

EUT Cable List and Details						
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite						
DC Power Cable	1.0	Unshielded	Without Ferrite			

Special Cable List and Details						
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite						
Earphone Cable	1.5	Unshielded	Without Ferrite			

Auxiliary Equipment List and Details						
Description Manufacturer Model Serial Number						
LCD TV	DELL	U2420f	/			

2. SUMMARY OF TEST RESULTS

FCC Rules	C Rules Description of Test Item	
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§ 15.207(a)	Conducted Emission Complian	
§ 15.247(e)	Power Spectral Density Comp	
§ 15.247(a)(2)	6 dB Bandwidth Co	
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)(d)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: not applicable

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has a integral antenna, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

4.3 Test Procedure

According to the KDB 558074, the test method of power spectral density as below:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4. Set the VBW \geq 3xRBW.
- 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 within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.4 Environmental Conditions

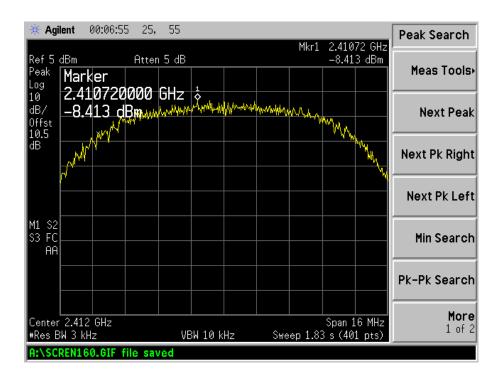
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

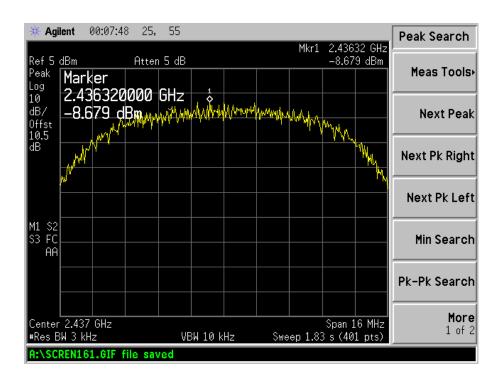
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-8.413	8
802.11b	2437	-8.679	8
	2462	-9.393	8
	2412	-18.55	8
802.11g	2437	-19.25	8
	2462	-18.49	8
	2412	-17.85	8
802.11n HT20	2437	-14.60	8
	2462	-16.33	8

Please refer to the following test plots:

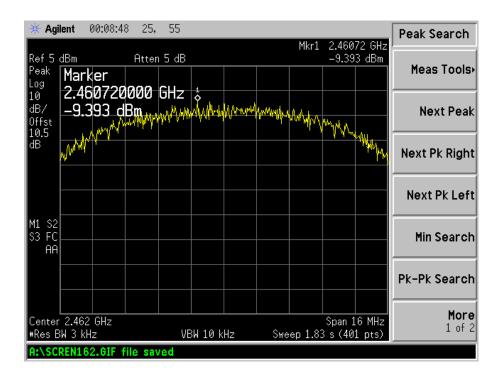
802.11b-Low Channel



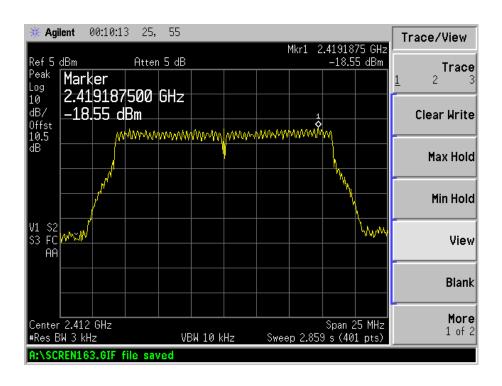
802.11b-Middle Channel



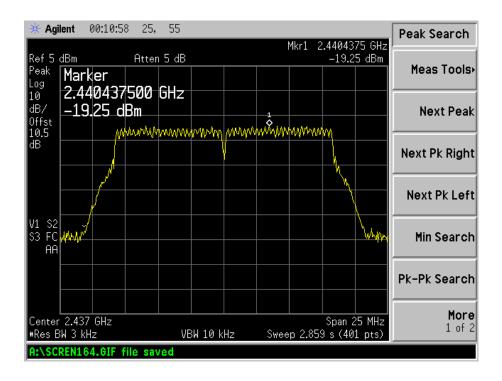
802.11b-High Channel



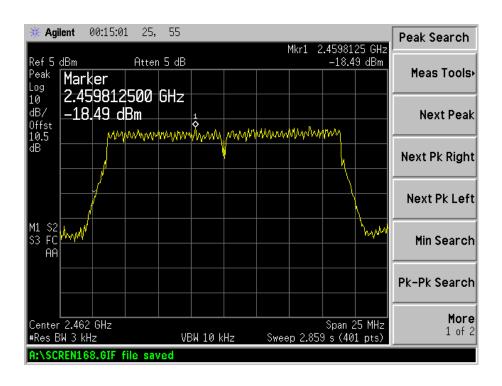
802.11g-Low Channel



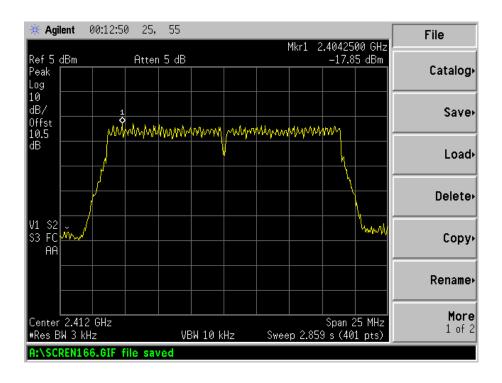
802.11g-Middle Channel



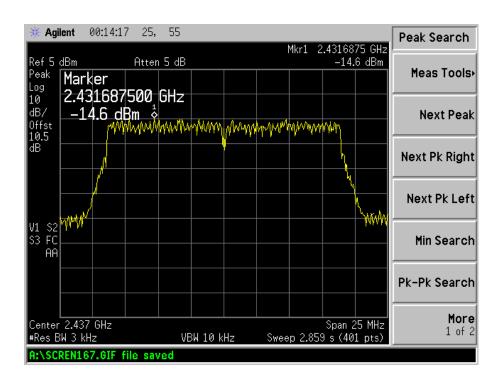
802.11g-High Channel



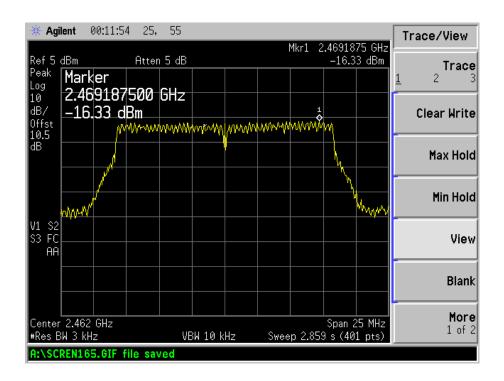
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



5. 6dB Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

5.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set RBW = 100 kHz.
- 3. Set the video bandwidth (VBW) \geq 3 x RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize.
- 8. 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..

5.4 Environmental Conditions

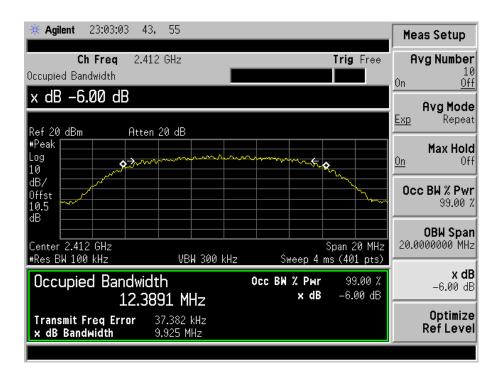
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

5.5 Summary of Test Results/Plots

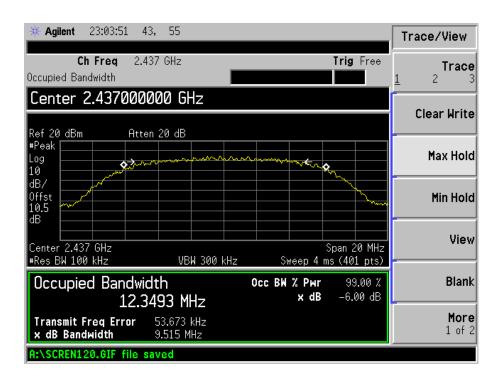
Test Mode	Test Channel MHz	6 dB Bandwidth kHz	Limit kHz
	2412	9925	500
802.11b	2437	9515	500
	2462	9880	500
802.11g	2412	16439	500
	2437	16529	500
	2462	16618	500
	2412	17661	500
802.11n-HT20	2437	17825	500
	2462	17844	500

Please refer to the following test plots:

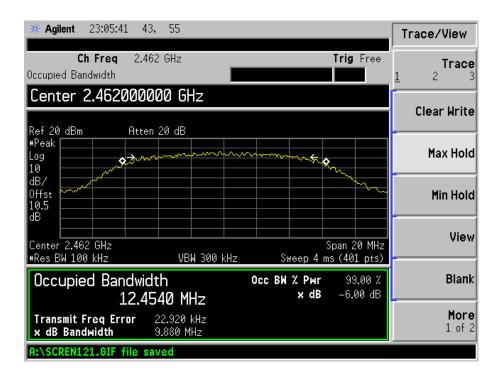
802.11b-Low Channel



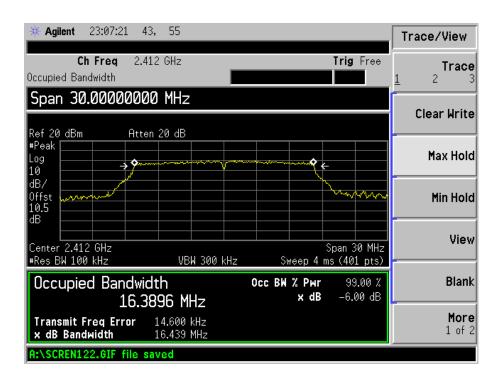
802.11b-Middle Channel



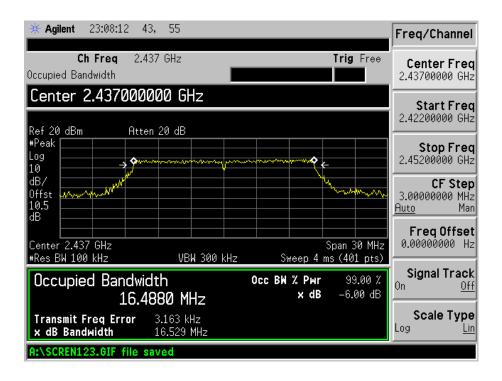
802.11b-High Channel



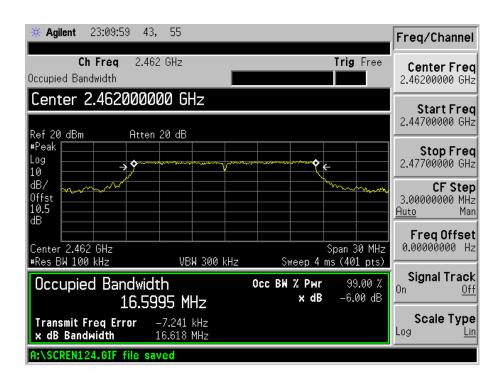
802.11g-Low Channel



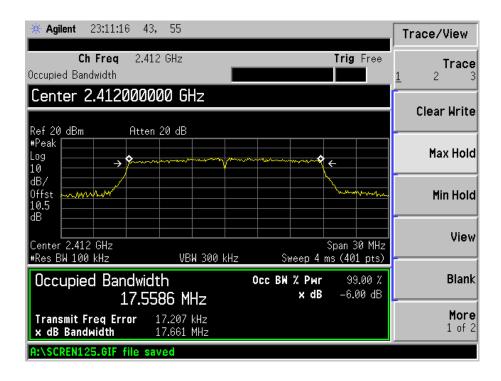
802.11g-Middle Channel



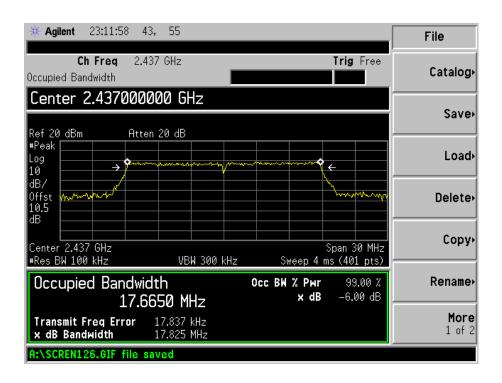
802.11g-High Channel



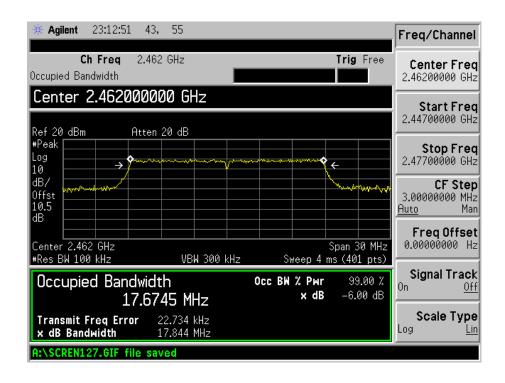
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

6.3 Test Procedure

According to section 15.247(b)-power output of the KDB 558074D01 v03, 9.1.2, the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- 1. Set the RBW = 1 MHz.
- 2. Set the VBW ≥ 3 x RBW
- 3. Set the span ≥ 1.5 x DTS bandwidth.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

6.4 Environmental Conditions

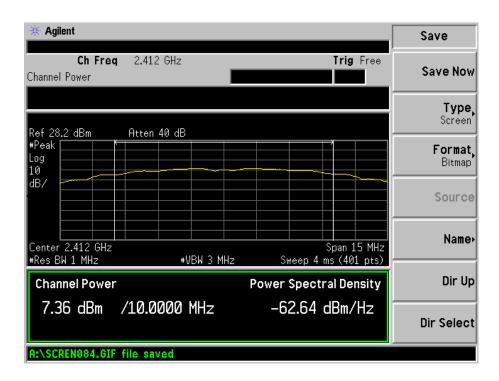
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

6.5 Summary of Test Results/Plots

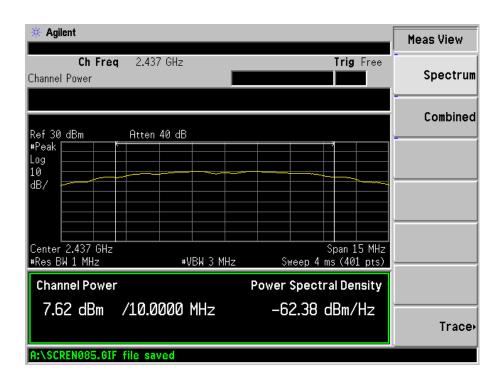
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
	2412	7.36	5.4450	1000
802.11b _ 1Mbps	2437	7.62	5.7810	1000
	2462	7.70	5.8884	1000
	2412	7.72	5.9156	1000
802.11b _ 11Mbps	2437	7.25	5.3088	1000
	2462	7.21	5.2602	1000
	2412	7.35	5.4325	1000
802.11g_6Mbps	2437	7.74	5.9429	1000
	2462	7.13	5.1642	1000
	2412	7.28	5.3456	1000
802.11g_54Mbps	2437	6.78	4.7643	1000
	2462	7.59	5.7412	1000
	2412	6.93	4.9317	1000
802.11n HT20_MCS0	2437	6.85	4.8417	1000
	2462	6.81	4.7973	1000
	2412	7.37	5.4576	1000
802.11n HT20_MCS7	2437	6.77	4.7534	1000
	2462	6.37	4.3351	1000

Please refer to the following test plots:

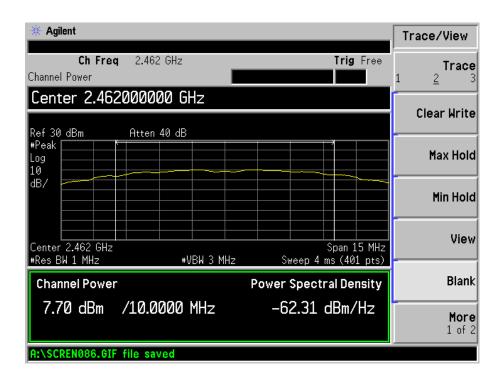
802.11b-1Mbps-Low Channel



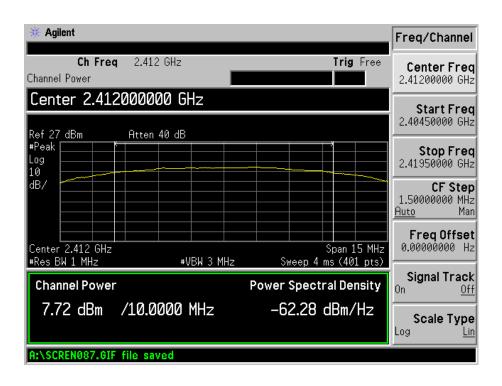
802.11b-1Mbps-Middle Channel



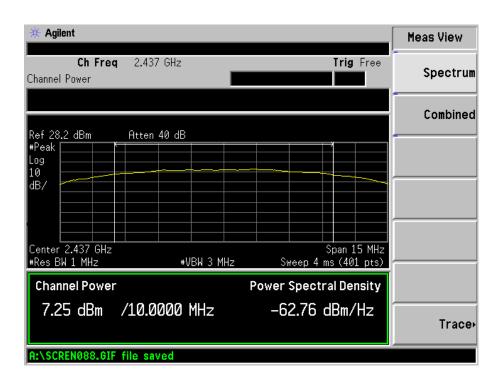
802.11b-1Mpbs-High Channel



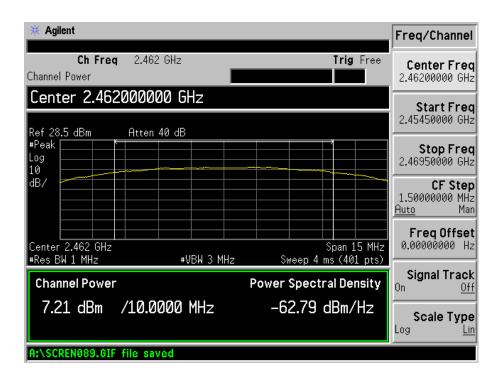
802.11b-11Mbps-Low Channel



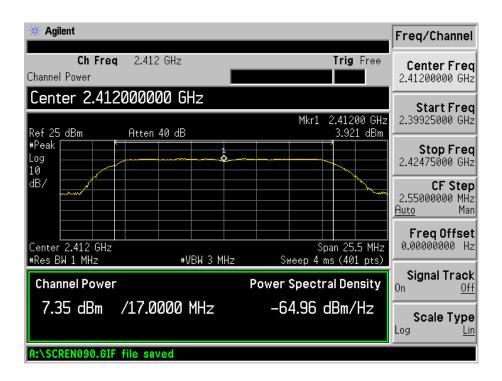
802.11b-11Mbps-Middle Channel



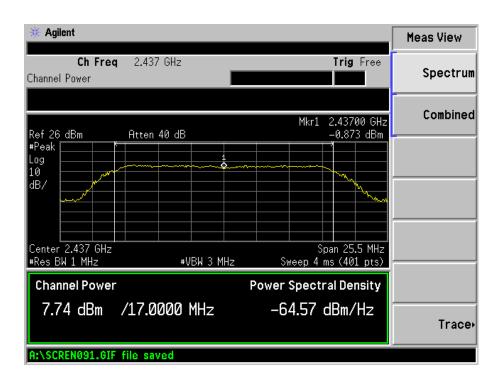
802.11b-11Mpbs-High Channel



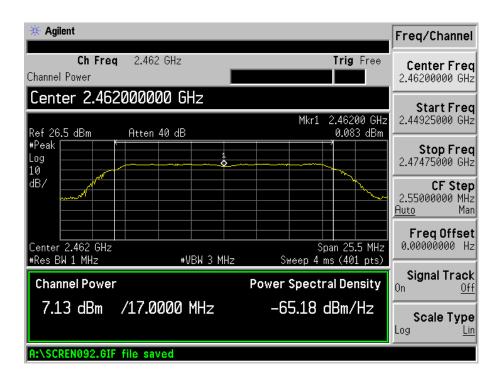
802.11g-6Mbps-Low Channel



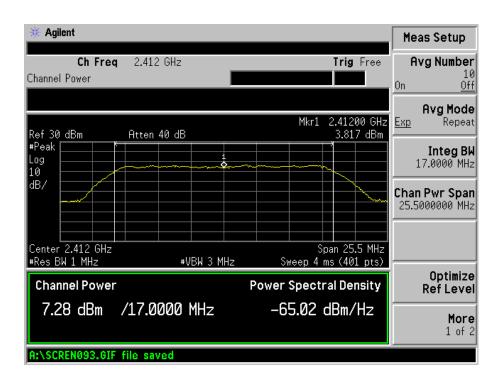
802.11g-6Mbps-Middle Channel



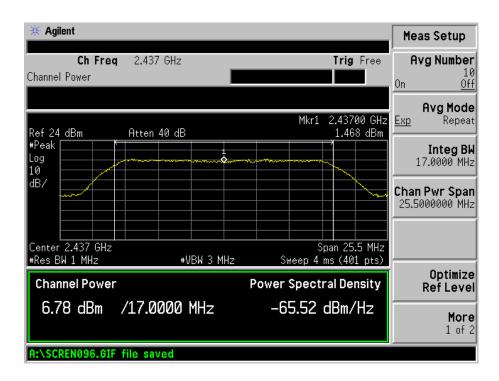
802.11g-6Mpbs-High Channel



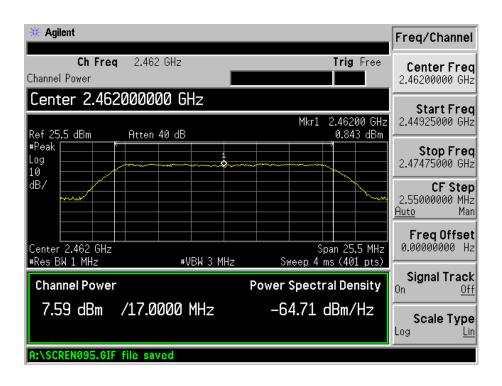
802.11g-54Mbps-Low Channel



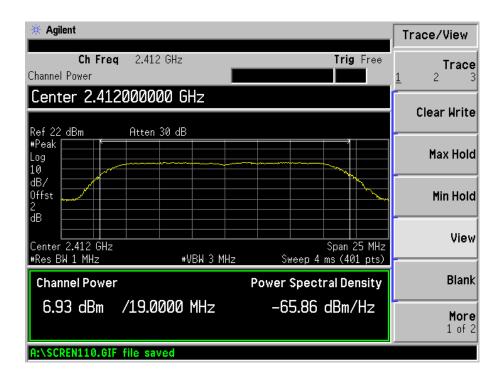
802.11g-54Mbps-Middle Channel



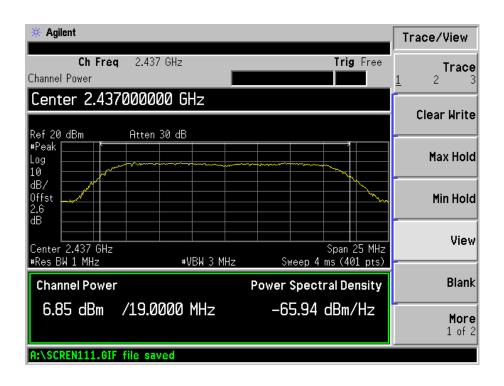
802.11g-54Mpbs-High Channel



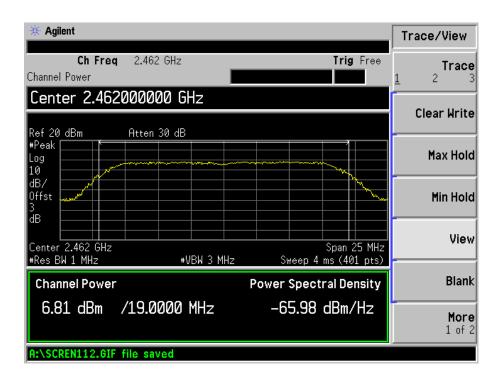
802.11n HT20 MCS0-Low Channel



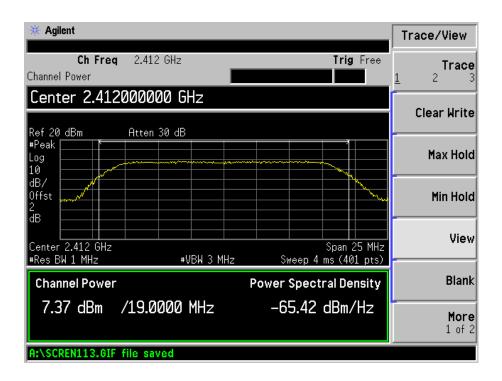
802.11n-HT20_ MCS0-Middle Channel



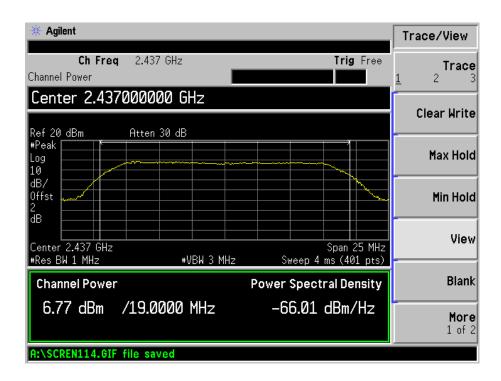
802.11n-HT20 MCS0-High Channel



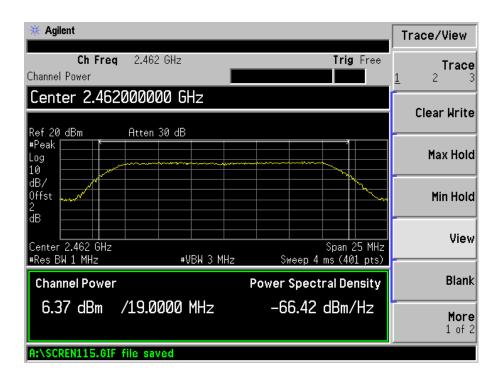
802.11n-HT20_ MCS7-Low Channel



802.11n-HT20 MCS7-Middle Channel



802.11n-HT20_ MCS7-High Channel



7. Field Strength of Spurious Emissions

7.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is +5.10 dB.

7.2 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

7.3 Test Equipment List and Details

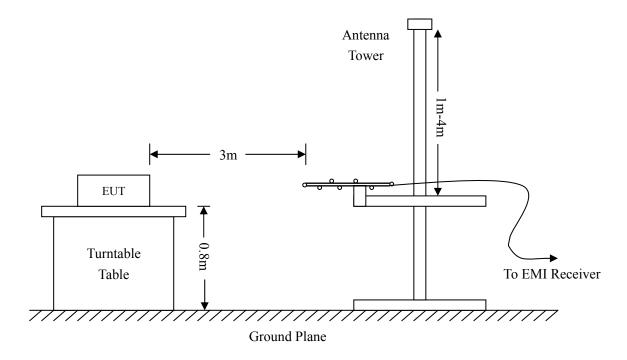
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	e-amplifier Compliance Direction		24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19
Horn Antenna	ETS	3116B	00088203	2013-04-20	2014-04-19

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

7.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

7.6 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

7.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst margin of:

-7.87 dB at 32.4059 MHz in the Vertical polarization for Lowest Channel (802.11n-HT20), 9kHz to 25 GHz, 3

Meters

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

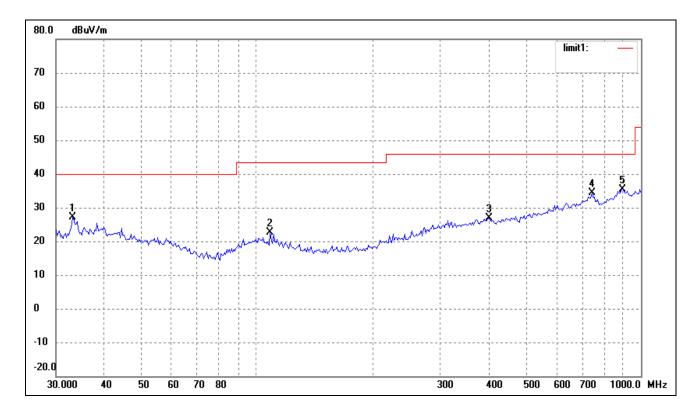
EUT: TABLET PC

Tested Model: B736

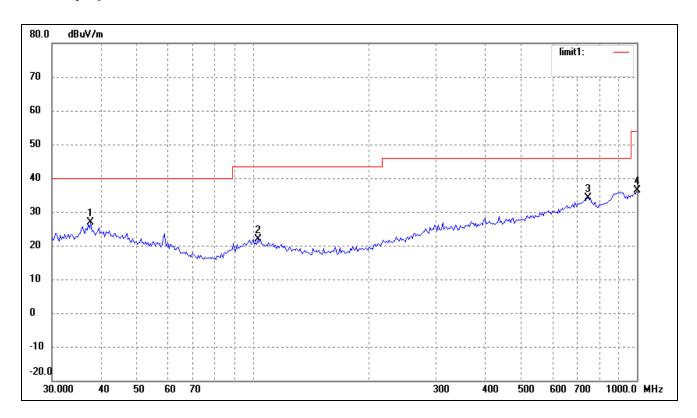
Operating Condition: 802.11b Transmitting Low Channel-2412MHz

Comment: Adapter DC 5V

Test Specification: Horizontal



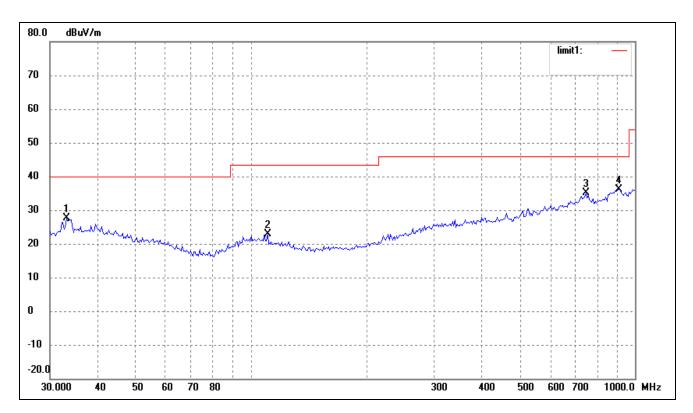
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	33.0950	18.58	8.56	27.14	40.00	-12.86	254	100	peak
2	108.2667	16.51	6.02	22.53	43.50	-20.97	113	100	peak
3	401.8385	15.51	11.47	26.98	46.00	-19.02	284	100	peak
4	744.8661	16.35	17.95	34.30	46.00	-11.70	360	100	peak
5	893.8567	16.23	19.27	35.50	46.00	-10.50	100	100	peak



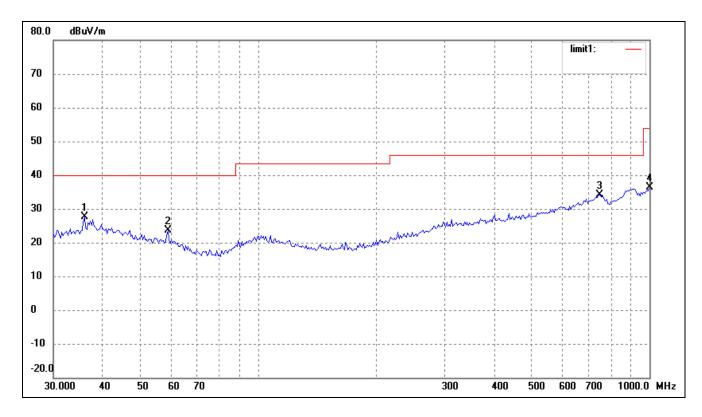
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.8121	17.52	9.33	26.85	40.00	-13.15	114	100	peak
2	103.0800	15.37	6.54	21.91	43.50	-21.59	270	100	peak
3	744.8661	16.16	17.95	34.11	46.00	-11.89	360	100	peak
4	1000.0000	16.41	19.90	36.31	54.00	-17.69	116	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

Comment: Adapter DC 5V



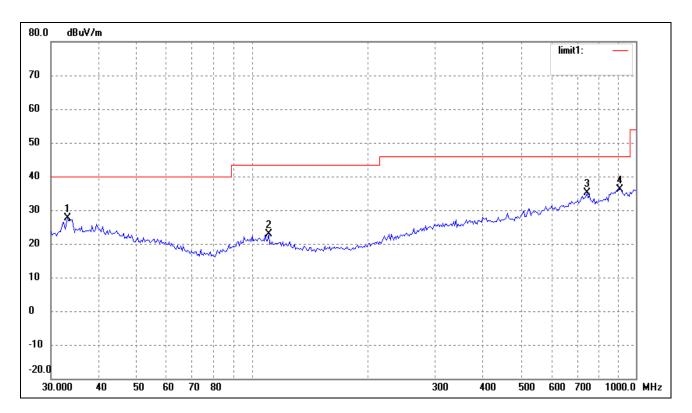
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	33.0950	19.05	8.56	27.61	40.00	-12.39	178	100	peak
2	110.5687	16.99	5.80	22.79	43.50	-20.71	224	100	peak
3	744.8661	17.06	17.95	35.01	46.00	-10.99	160	100	peak
4	906.4824	16.94	19.15	36.09	46.00	-9.91	290	100	peak



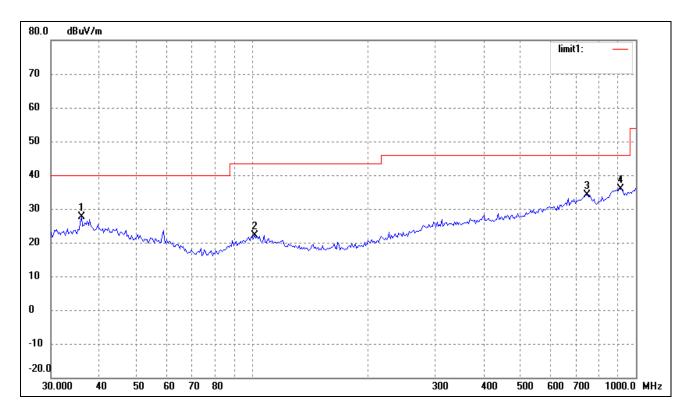
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.0007	18.59	9.04	27.63	40.00	-12.37	256	100	peak
2	58.8185	17.75	5.81	23.56	40.00	-16.44	360	100	peak
3	744.8661	16.16	17.95	34.11	46.00	-11.89	360	100	peak
4	1000.0000	16.41	19.90	36.31	54.00	-17.69	360	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

Comment: Adapter DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	33.0950	19.05	8.56	27.61	40.00	-12.39	176	100	peak
2	110.5687	16.99	5.80	22.79	43.50	-20.71	255	100	peak
3	744.8661	17.06	17.95	35.01	46.00	-10.99	360	100	peak
4	906.4824	16.94	19.15	36.09	46.00	-9.91	178	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.0007	18.59	9.04	27.63	40.00	-12.37	360	100	peak
2	101.6443	15.50	6.67	22.17	43.50	-21.33	225	100	peak
3	744.8661	16.16	17.95	34.11	46.00	-11.89	160	100	peak
4	912.8620	16.92	18.93	35.85	46.00	-10.15	310	100	peak

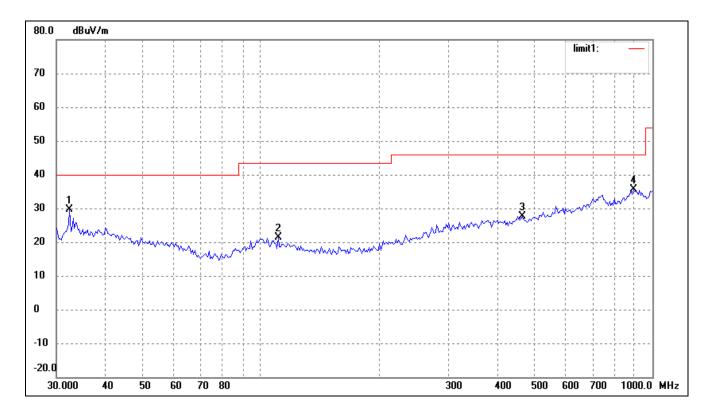
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: TABLET PC

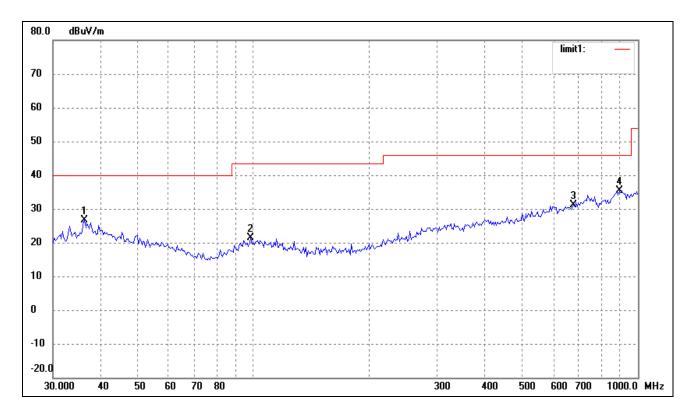
Tested Model: B736

Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment: Adapter DC 5V



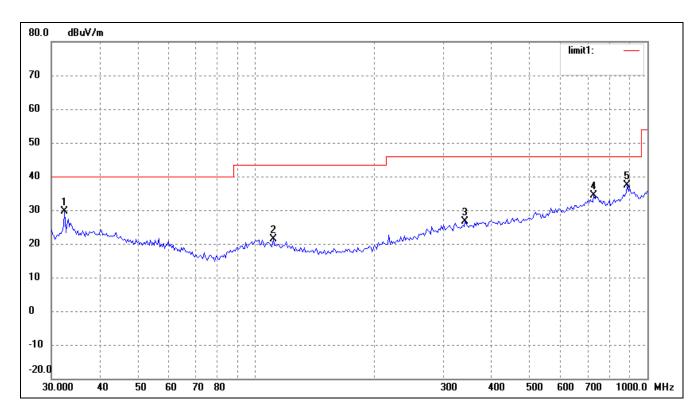
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	32.4059	21.23	8.44	29.67	40.00	-10.33	174	100	peak
2	110.5687	15.56	5.80	21.36	43.50	-22.14	160	100	peak
3	465.5994	16.02	11.69	27.71	46.00	-18.29	320	100	peak
4	893.8567	16.34	19.27	35.61	46.00	-10.39	360	100	peak



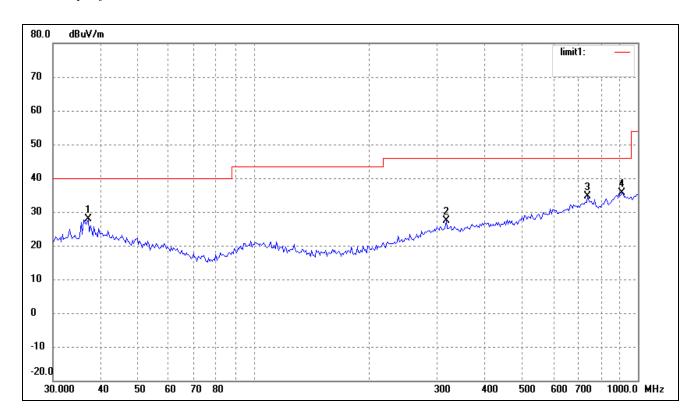
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.2541	17.45	9.09	26.54	40.00	-13.46	177	100	peak
2	98.1419	14.98	6.39	21.37	43.50	-22.13	90	100	peak
3	679.9600	15.48	15.55	31.03	46.00	-14.97	336	100	peak
4	893.8567	16.13	19.27	35.40	46.00	-10.60	360	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

Comment: Adapter DC 5V



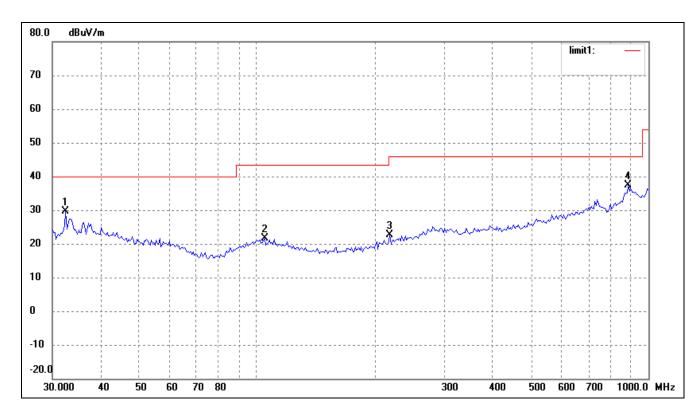
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	32.4059	21.23	8.44	29.67	40.00	-10.33	270	100	peak
2	110.5687	15.56	5.80	21.36	43.50	-22.14	164	100	peak
3	341.9787	16.40	10.16	26.56	46.00	-19.44	228	200	peak
4	729.3583	17.11	17.31	34.42	46.00	-11.58	130	200	peak
5	887.6099	18.21	19.15	37.36	46.00	-8.64	360	100	peak



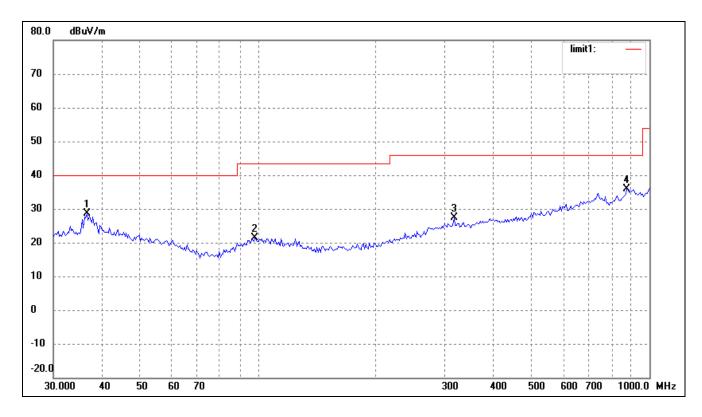
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.0249	18.59	9.21	27.80	40.00	-12.20	360	100	peak
2	316.5890	16.84	10.44	27.28	46.00	-18.72	255	100	peak
3	739.6605	16.54	18.07	34.61	46.00	-11.39	270	100	peak
4	906.4824	16.47	19.15	35.62	46.00	-10.38	180	100	peak

Operating Condition: 802.11g Transmitting High Channel-2462MHz

Comment: Adapter DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	32.4059	21.23	8.44	29.67	40.00	-10.33	270	100	peak
2	104.5361	15.27	6.39	21.66	43.50	-21.84	51	200	peak
3	218.3085	16.82	5.81	22.63	46.00	-23.37	360	200	peak
4	887.6099	18.21	19.15	37.36	46.00	-8.64	360	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.5092	19.47	9.13	28.60	40.00	-11.40	360	100	peak
2	98.1419	14.98	6.39	21.37	43.50	-22.13	180	100	peak
3	316.5890	16.84	10.44	27.28	46.00	-18.72	225	100	peak
4	875.2470	17.15	18.80	35.95	46.00	-10.05	67	100	peak

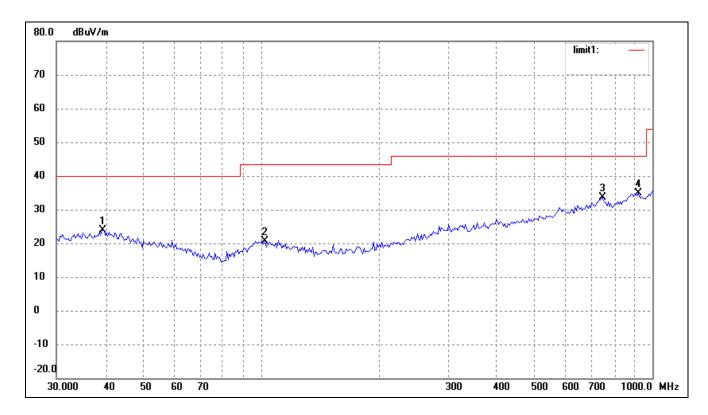
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: TABLET PC

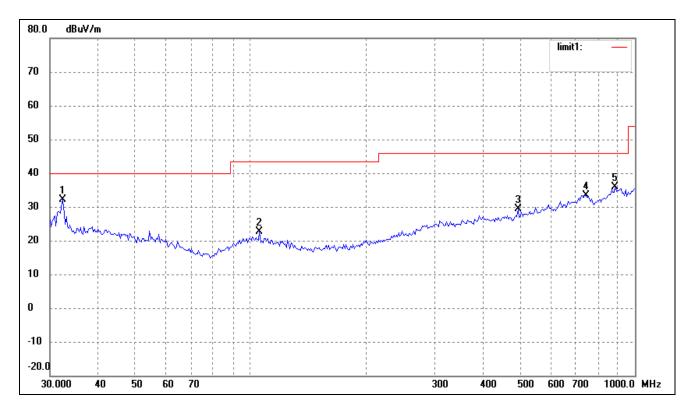
Tested Model: B736

Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz

Comment: Adapter DC 5V



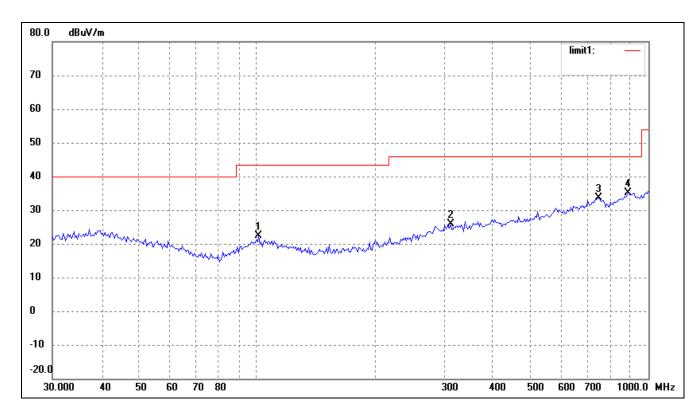
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.4372	14.37	9.60	23.97	40.00	-16.03	260	100	peak
2	102.3597	14.14	6.61	20.75	43.50	-22.75	131	200	peak
3	744.8661	15.61	17.95	33.56	46.00	-12.44	285	200	peak
4	919.2866	16.27	18.70	34.97	46.00	-11.03	224	100	peak



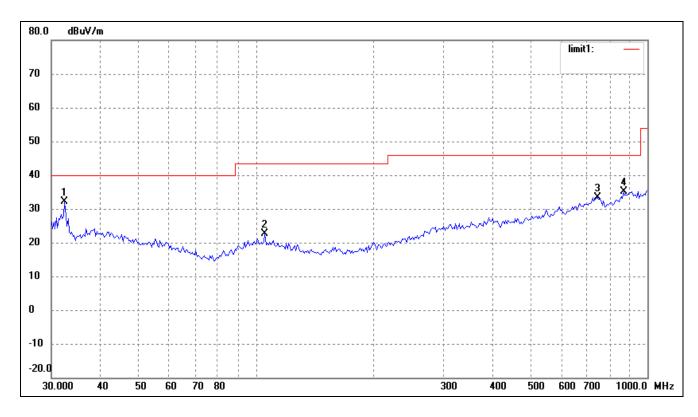
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	32.4059	23.69	8.44	32.13	40.00	-7.87	155	100	peak
2	105.2718	16.25	6.32	22.57	43.50	-20.93	197	100	peak
3	495.9344	17.25	12.04	29.29	46.00	-16.71	310	100	peak
4	744.8661	15.46	17.95	33.41	46.00	-12.59	229	100	peak
5	887.6099	16.71	19.15	35.86	46.00	-10.14	130	100	peak

Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2437MHz

Comment: Adapter DC 5V



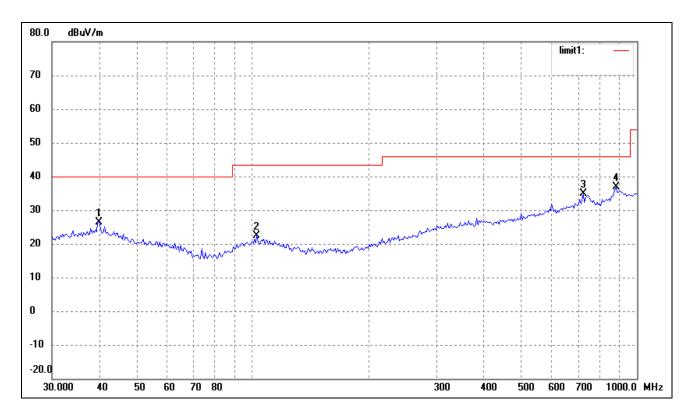
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	100.9340	15.68	6.75	22.43	43.50	-21.07	274	100	peak
2	312.1794	15.59	10.36	25.95	46.00	-20.05	116	100	peak
3	744.8661	15.61	17.95	33.56	46.00	-12.44	82	100	peak
4	887.6099	15.93	19.15	35.08	46.00	-10.92	134	100	peak



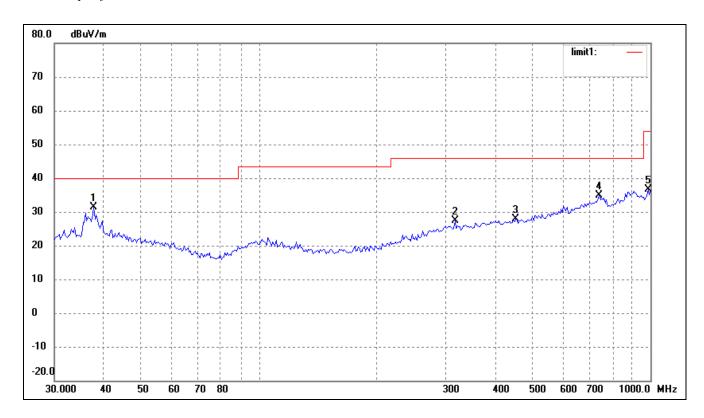
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	32.4059	23.69	8.44	32.13	40.00	-7.87	264	100	peak
2	105.2718	16.25	6.32	22.57	43.50	-20.93	110	100	peak
3	744.8661	15.46	17.95	33.41	46.00	-12.59	136	100	peak
4	869.1302	16.70	18.54	35.24	46.00	-10.76	90	100	peak

Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz

Comment: Adapter DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.7147	16.86	9.64	26.50	40.00	-13.50	360	100	peak
2	102.3597	15.89	6.61	22.50	43.50	-21.00	112	100	peak
3	724.2611	18.01	16.93	34.94	46.00	-11.06	180	200	peak
4	881.4067	17.84	19.03	36.87	46.00	-9.13	270	200	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.8121	21.98	9.33	31.31	40.00	-8.69	267	100	peak
2	316.5890	16.84	10.44	27.28	46.00	-18.72	116	100	peak
3	452.7197	16.27	11.58	27.85	46.00	-18.15	360	100	peak
4	739.6605	16.81	18.07	34.88	46.00	-11.12	228	100	peak
5	986.0717	17.36	19.17	36.53	54.00	-17.47	270	100	peak

Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			•
4824.000	54.09	-3.87	50.22	74.00	-23.78	Н	PK
4824.000	38.84	-3.87	34.97	54.00	-19.03	Н	AV
7236.000	46.30	1.14	47.44	74.00	-26.56	Н	PK
7236.000	34.98	1.19	36.17	54.00	-17.83	Н	AV
4824.000	57.31	-3.86	53.45	74.00	-20.55	V	PK
4824.000	40.50	-3.86	36.64	54.00	-17.36	V	AV
7236.000	49.11	1.10	50.21	74.00	-23.79	V	PK
7236.000	37.44	1.10	38.54	54.00	-15.46	V	AV
			Middle Chan	nel-2437MHz			
4874.000	54.74	-3.74	51.00	74.00	-23.00	Н	PK
4874.000	39.99	-3.74	36.25	54.00	-17.75	Н	AV
7311.000	47.77	1.47	49.24	74.00	-24.76	Н	PK
7311.000	33.10	1.47	34.57	54.00	-19.43	Н	AV
4874.000	53.97	-3.74	50.23	74.00	-23.77	V	PK
4874.000	40.89	-3.74	37.15	54.00	-16.85	V	AV
7311.000	47.98	1.47	49.45	74.00	-24.55	V	PK
7311.000	34.08	1.47	35.55	54.00	-18.45	V	AV
			High Chann	el-2462MHz			
4924.000	55.82	-3.59	52.23	74.00	-21.77	Н	PK
4924.000	41.76	-3.59	38.17	54.00	-15.83	Н	AV
7386.000	46.38	1.79	48.17	74.00	-25.83	Н	PK
7386.000	34.83	1.79	36.62	54.00	-17.38	Н	AV
4924.000	54.94	-3.59	51.35	74.00	-22.65	V	PK
4924.000	42.04	-3.59	38.45	54.00	-15.55	V	AV
7386.000	47.99	1.79	49.78	74.00	-24.22	V	PK
7386.000	35.18	1.79	36.97	54.00	-17.03	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			
4824.000	55.50	-3.86	51.64	74.00	-22.36	Н	PK
4824.000	42.23	-3.86	38.37	54.00	-15.63	Н	AV
7236.000	48.42	1.10	49.52	74.00	-24.48	Н	PK
7236.000	34.40	1.10	35.50	54.00	-18.50	Н	AV
4824.000	55.99	-3.86	52.13	74.00	-21.87	V	PK
4824.000	42.65	-3.86	38.79	54.00	-15.21	V	AV
7236.000	49.22	1.10	50.32	74.00	-23.68	V	PK
7236.000	35.54	1.10	36.64	54.00	-17.36	V	AV
			Middle Chan	nel-2437MHz			
4874.000	55.10	-3.74	51.36	74.00	-22.64	Н	PK
4874.000	43.28	-3.74	39.54	54.00	-14.46	Н	AV
7311.000	47.38	1.47	48.85	74.00	-25.15	Н	PK
7311.000	35.27	1.47	36.74	54.00	-17.26	Н	AV
4874.000	57.07	-3.74	53.33	74.00	-20.67	V	PK
4874.000	43.86	-3.74	40.12	54.00	-13.88	V	AV
7311.000	48.40	1.47	49.87	74.00	-24.13	V	PK
7311.000	35.33	1.47	36.80	54.00	-17.20	V	AV
			High Chann	el-2462MHz			
4924.000	54.00	-3.59	50.41	74.00	-23.59	Н	PK
4924.000	40.75	-3.59	37.16	54.00	-16.84	Н	AV
7386.000	47.18	1.79	48.97	74.00	-25.03	Н	PK
7386.000	34.73	1.79	36.52	54.00	-17.48	Н	AV
4924.000	56.11	-3.59	52.52	74.00	-21.48	V	PK
4924.000	42.69	-3.59	39.10	54.00	-14.90	V	AV
7386.000	48.58	1.79	50.37	74.00	-23.63	V	PK
7386.000	35.95	1.79	37.74	54.00	-16.26	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			
4824.000	55.60	-3.86	51.74	74.00	-22.26	Н	PK
4824.000	40.54	-3.86	36.68	54.00	-17.32	Н	AV
7236.000	47.26	1.10	48.36	74.00	-25.64	Н	PK
7236.000	34.44	1.10	35.54	54.00	-18.46	Н	AV
4824.000	56.71	-3.86	52.85	74.00	-21.15	V	PK
4824.000	43.18	-3.86	39.32	54.00	-14.68	V	AV
7236.000	49.21	1.10	50.31	74.00	-23.69	V	PK
7236.000	35.77	1.10	36.87	54.00	-17.13	V	AV
			Middle Chan	nel-2437MHz			
4874.000	54.16	-3.74	50.42	74.00	-23.58	Н	PK
4874.000	42.48	-3.74	38.74	54.00	-15.26	Н	AV
7311.000	48.74	1.47	50.21	74.00	-23.79	Н	PK
7311.000	33.10	1.47	34.57	54.00	-19.43	Н	AV
4874.000	54.92	-3.74	51.18	74.00	-22.82	V	PK
4874.000	42.62	-3.74	38.88	54.00	-15.12	V	AV
7311.000	48.49	1.47	49.96	74.00	-24.04	V	PK
7311.000	35.20	1.47	36.67	54.00	-17.33	V	AV
			High Chann	el-2462MHz			
4924.000	53.90	-3.59	50.31	74.00	-23.69	Н	PK
4924.000	43.23	-3.59	39.64	54.00	-14.36	Н	AV
7386.000	48.31	1.79	50.10	74.00	-23.90	Н	PK
7386.000	36.10	1.79	37.89	54.00	-16.11	Н	AV
4924.000	55.70	-3.59	52.11	74.00	-21.89	V	PK
4924.000	41.48	-3.59	37.89	54.00	-16.11	V	AV
7386.000	48.55	1.79	50.34	74.00	-23.66	V	PK
7386.000	35.36	1.79	37.15	54.00	-16.85	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19

8.3 Test Procedure

According to the KDB 558074, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 V02, the conducted spurious emissions test method as follows:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW \geq 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = \max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.4 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

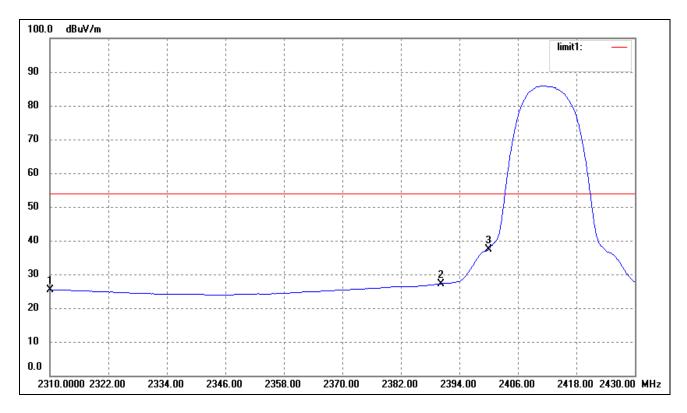
8.5 Summary of Test Results/Plots

Test Mode	Test Frequency MHz	Limit dBuV / dBc	Result
	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
802.11b	2400.000	<54 dBuV	Pass
	2483.500	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass
	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
802.11g	2400.000	<54 dBuV	Pass
	2483.500	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass
	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
802.11n-HT20	2400.000	<54 dBuV	Pass
	2483.500	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.247(d) requirements.

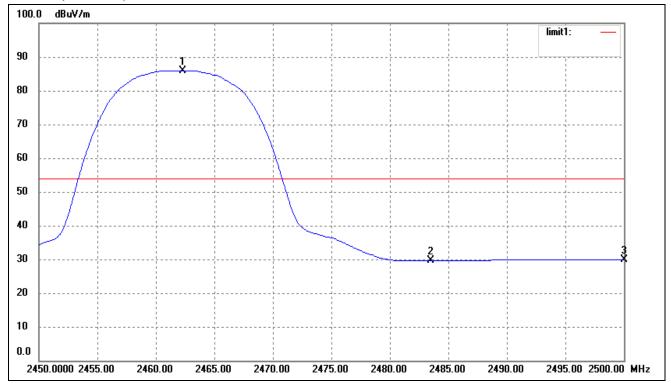
Please refer to the test plots as below.

802.11b-Lowest Bandedge



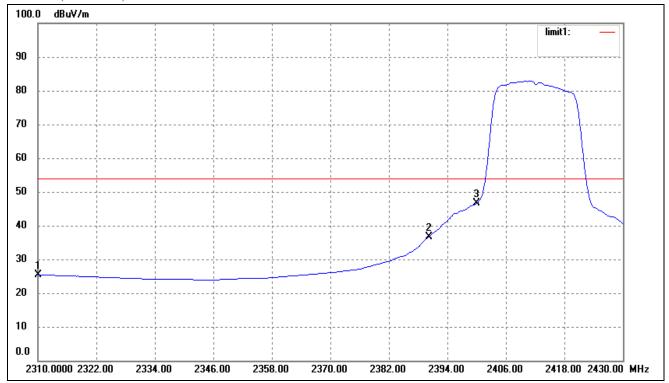
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	29.17	-3.71	25.46	54.00	-28.54	Average Detector
	2310.000	42.23	-3.71	38.52	74.00	-35.48	Peak Detector
2	2390.000	30.75	-3.54	27.21	54.00	-26.79	Average Detector
	2390.000	42.90	-3.54	39.36	74.00	-34.64	Peak Detector
3	2400.000	41.00	-3.51	37.49	54.00	-16.51	Average Detector
	2400.000	51.93	-3.51	48.42	74.00	-25.58	Peak Detector

802.11b-Highest Bandedge



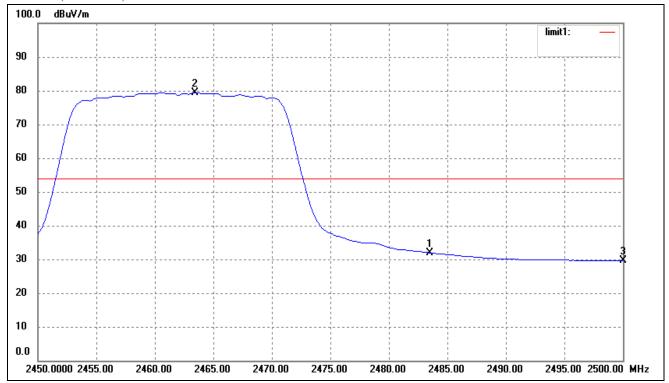
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.300	89.35	-3.37	85.98	/	/	Average Detector
	2462.300	97.99	-3.37	94.62	/	/	Peak Detector
2	2483.500	Delta = 56.6dBc		29.38	54.00	-24.62	Average Detector
	2483.500	Della – S	ю.оивс	38.02	74.00	-35.98	Peak Detector
3	2500.000	33.13	-3.28	29.85	54.00	-24.15	Average Detector
	2500.000	46.79	-3.28	43.51	74.00	-30.49	Peak Detector

802.11g-Lowest Bandedge



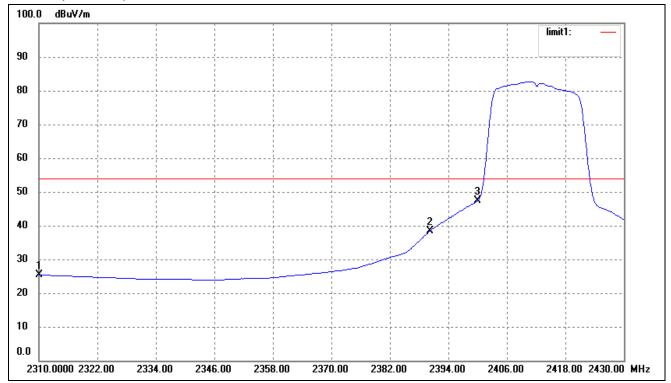
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	29.15	-3.71	25.44	54.00	-28.56	Average Detector
	2310.000	41.87	-3.71	38.16	74.00	-35.84	Peak Detector
2	2390.000	40.17	-3.54	36.63	54.00	-17.37	Average Detector
	2390.000	60.80	-3.54	57.26	74.00	-16.74	Peak Detector
3	2400.000	50.13	-3.51	46.62	54.00	-7.38	Average Detector
	2400.000	70.72	-3.51	67.21	74.00	-6.79	Peak Detector

802.11g-Highest Bandedge



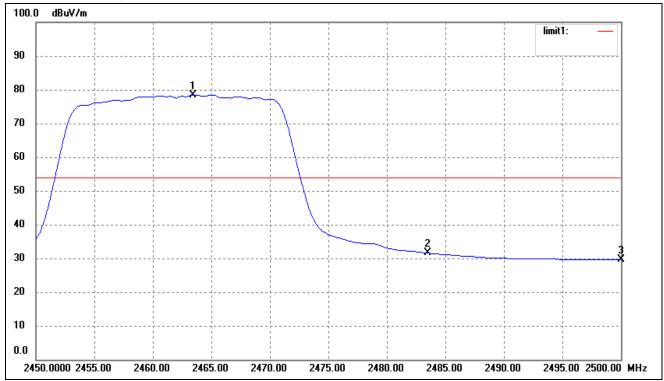
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
2	2463.400	82.80	-3.36	79.44	/	/	Average Detector
	2463.400	93.60	-3.36	90.24	/	/	Peak Detector
1	2483.500	Delta = 50.07dBc		29.37	54.00	-24.63	Average Detector
	2483.500	Delta – 3	0.07 ubc	45.14	74.00	-33.83	Peak Detector
3	2500.000	32.93	-3.28	29.65	54.00	-24.35	Average Detector
	2500.000	43.83	-3.28	40.55	74.00	-33.45	Peak Detector

802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	29.11	-3.71	25.40	54.00	-28.60	Average Detector
	2310.000	38.48	-3.71	34.77	74.00	-39.23	Peak Detector
2	2390.000	41.94	-3.54	38.40	54.00	-15.60	Average Detector
	2390.000	54.59	-3.54	51.05	74.00	-22.95	Peak Detector
3	2400.000	50.87	-3.51	47.36	54.00	-6.64	Average Detector
	2400.000	61.86	-3.51	58.35	74.00	-15.65	Peak Detector

802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.400	81.80	-3.36	78.44	/	/	Average Detector
	2463.400	92.56	-3.36	89.20	/	/	Peak Detector
2	2483.500	Delta = 47.46dBc		30.98	54.00	-23.02	Average Detector
	2483.500	Della – 4	7.40UDC	41.74	74.00	-32.26	Peak Detector
3	2500.000	32.87	-3.28	29.59	54.00	-24.41	Average Detector
	2500.000	45.21	-3.28	41.93	74.00	-32.07	Peak Detector

9. Conducted Emissions

9.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

9.2 Test Equipment List and Details

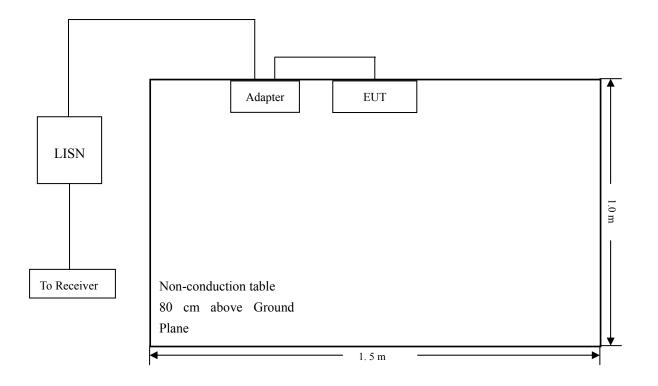
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2013-05-07	2014-05-06
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2013-05-07	2014-05-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2013-05-07	2014-05-06

9.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

9.4 Basic Test Setup Block Diagram



9.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

9.6 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

9.7 Summary of Test Results/Plots

According to the data in section 9.8, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-6.72 dB at 0.154 MHz in the Line mode, Peak detector, 0.15-30MHz

9.8 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

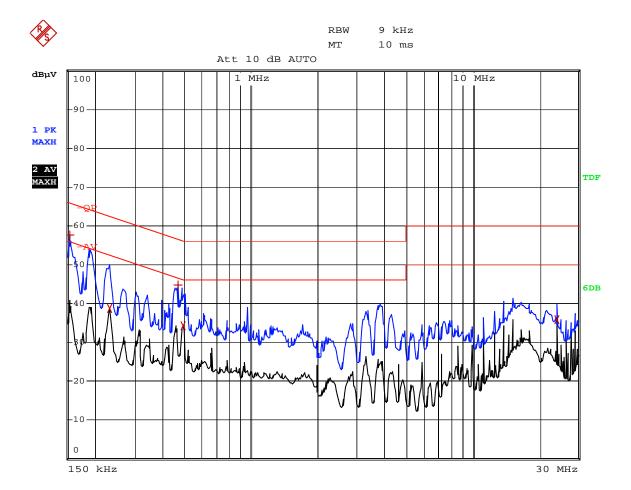
EUT: TABLET PC

Tested Model: B736

Operating Condition: Transmitting

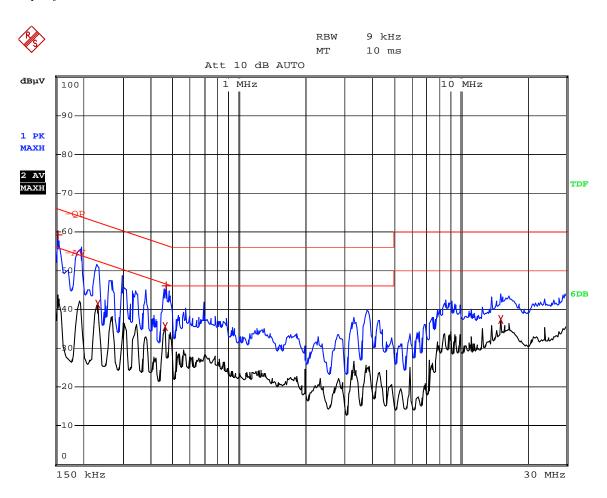
Comment: AC 120V/60Hz, Adapter 5V

Test Specification: Neutral



	EDIT PEAK LIST (Prescan Results)					
Trace1:	-QP						
Trace2:	-AV	-AV					
Trace3:							
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB				
1 Max Peak	154 kHz	57.57	-8.20				
2 Average	230 kHz	38.74	-13.70				
1 Max Peak	466 kHz	44.73	-11.85				
2 Average	494 kHz	34.14	-11.95				
2 Average	23.982 MHz	35.93	-14.06				

Test Specification: Line



EDIT PEAK LIST (Prescan Results)							
Trace1:	-QP						
Trace2:	-AV						
Trace3:							
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB				
1 Max Peak	154 kHz	59.06	-6.72				
2 Average	230 kHz	41.41	-11.03				
2 Average	462 kHz	35.44	-11.21				
1 Max Peak	466 kHz	46.11	-10.46				
2 Average	15.198 MHz	37.38	-12.61				

***** END OF REPORT *****