FCC Part 15C Measurement and Test Report

For

Kobian Canada Inc.

560 Denison Street, Unit#5 Markham, Ontario, Canada

FCC ID: YH5HS-7DTB6

FCC Rules: FCC Part 15C

Product Description: MID

Tested Model: <u>HS-7DTB6</u>

Report No.: <u>STR12088131I-1</u>

Tested Date: <u>2012-08-09 to 2012-08-22</u>

Issued Date: <u>2012-08-22</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

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Kabian Canada Inc.

Address of applicant: 560 Denison Street, Unit#5 Markham, Ontario,

Canada

Manufacturer: SHENZHEN GAOXINQI TECHNOLOGY CO., LTD Address of manufacturer: GaoXinQi industrial park, liuxian 1 st road, district 67,

Baoan, Shenzhen .P.R China

General Description of EUT	
Product Name:	MID
Trade Name:	hipstreet
Model No.:	HS-7DTB6
Adding Model(s):	/
Rated Voltage:	DC 3.7V Battery, Adapter Charging: DC 5V
Dower Adepter Medal:	FYAD-15W-0502000
Power Adapter Model:	(Input: AC 120V, Output: DC 5V)
Note: The test data is gathered from a pro	duction sample, provided by the manufacturer

Technical Characteristics of EUT	
Support Standards:	802.11b/g/n(HT20)
Frequency Range:	2412-2462MHz
RF Output Power:	12.26dBm (Conducted)
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Modulation:	CCK, BPSK, QPSK, BPSK
Quantity of Channels:	11
Channel Separation:	5MHz
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi
Lowest Internal Frequency of EUT:	24MHz
Device Category:	Portable Device

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1.2 Test Standards

The following report is prepared on behalf of the Kobian Canada Inc. 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.

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 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)

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

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

Auxiliary Equipment Li	ist and Details		
Description	Manufacturer	Model	Serial Number
/	/	/	/

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2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item Resu	
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 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 permanent antenna, fulfill the requirement of this section.

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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	2012-03-28	2013-03-27
Attenuator	ATTEN	ATS100-4-20	/	2012-03-28	2013-03-27

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. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Span 5-30 % greater than the EBW.
- 4. Repeat above procedures until all frequency measured was complete.
- 5. (BWCF) where BWCF = $10\log (3 \text{ kHz}/100\text{kHz} = -15.2 \text{ dB})$.

4.4 Environmental Conditions

Temperature:	20° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

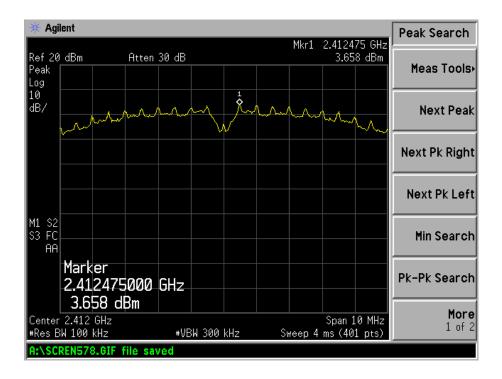
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4.5 Summary of Test Results/Plots

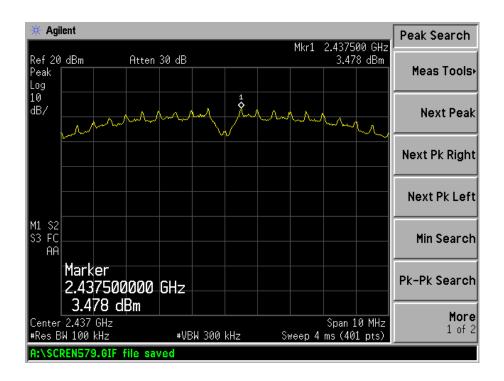
Test Mode	Test Channel MHz	Power Spectral Density dBm/100kHz	BWCF	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	3.658	-15.2	-11.542	8
802.11b	2437	3.478	-15.2	-11.722	8
	2462	3.091	-15.2	-12.109	8
	2412	3.308	-15.2	-11.892	8
802.11g	2437	2.608	-15.2	-12.592	8
	2462	2.013	-15.2	-13.187	8
	2412	3.548	-15.2	-11.652	8
802.11n HT20	2437	2.903	-15.2	-12.297	8
	2462	2.277	-15.2	-12.923	8

Please refer to the following test plots:

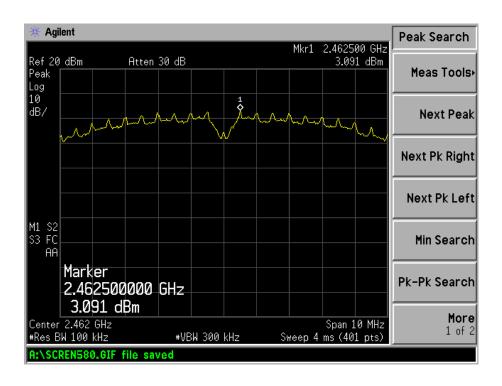
802.11b-Low Channel



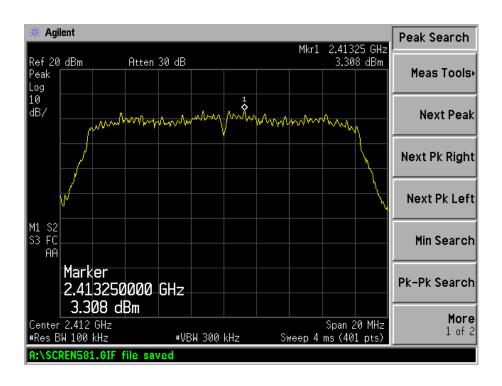
802.11b-Middle Channel



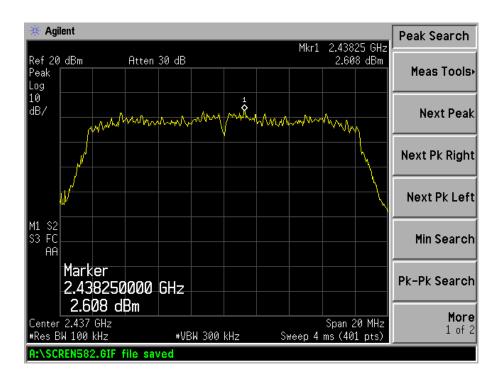
802.11b-High Channel



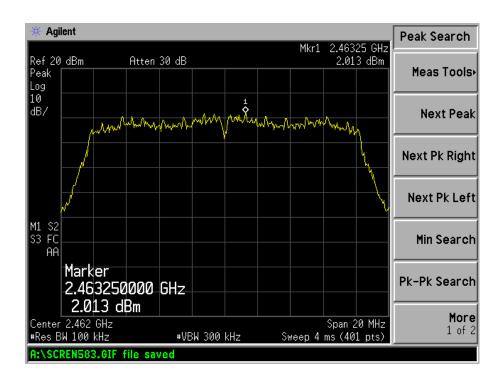
802.11g-Low Channel



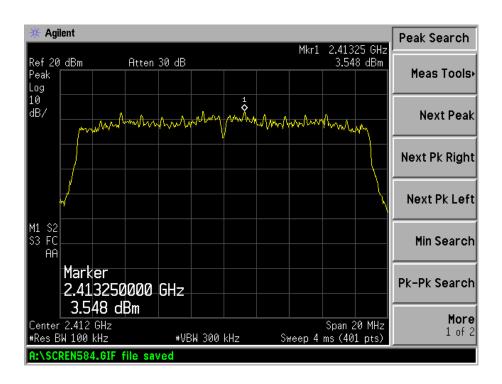
802.11g-Middle Channel



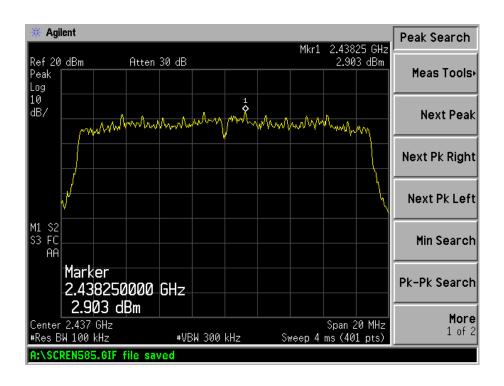
802.11g-High Channel



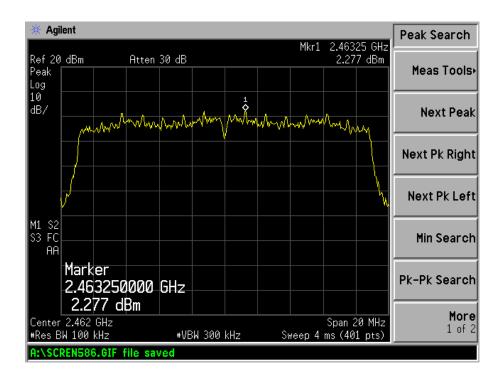
802.11n-HT20-Low Channel



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	2012-03-28	2013-03-27
Attenuator	ATTEN	ATS100-4-20	/	2012-03-28	2013-03-27

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 center frequency of spectrum analyzer = operating frequency.
- 3. The spectrum analyzer as RBW=300kHz (1 % of Bandwidth.), Sweep=auto
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.

5.4 Environmental Conditions

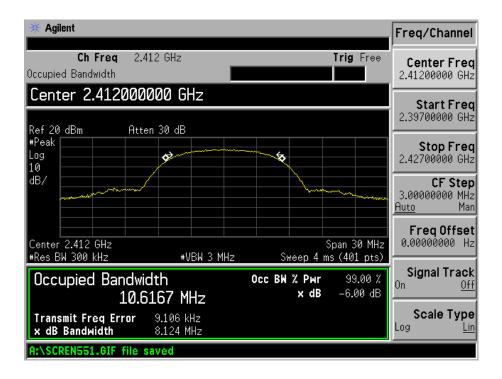
Temperature:	24° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

5.5 Summary of Test Results/Plots

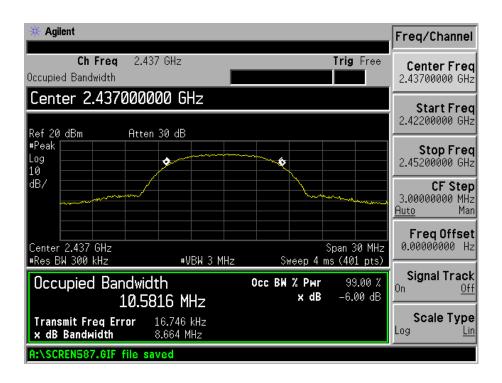
Test Mode	Test Channel	6 dB Bandwidth	Limit	
1050 1710 000	MHz	kHz	kHz	
	2412	8124	500	
802.11b	2437	8664	500	
	2462	8407	500	
	2422	15333	500	
802.11g	2437	15610	500	
	2462	15562	500	
	2412	17462	500	
802.11n-HT20	2437	17251	500	
	2462	17440	500	

Please refer to the following test plots:

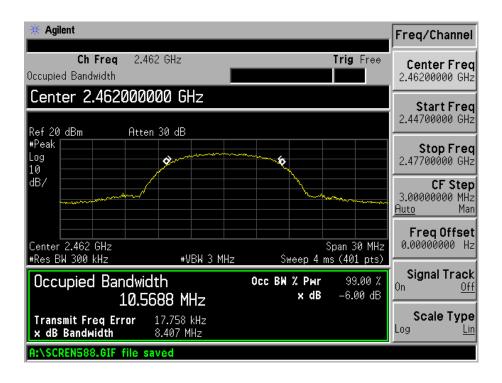
802.11b-Low Channel



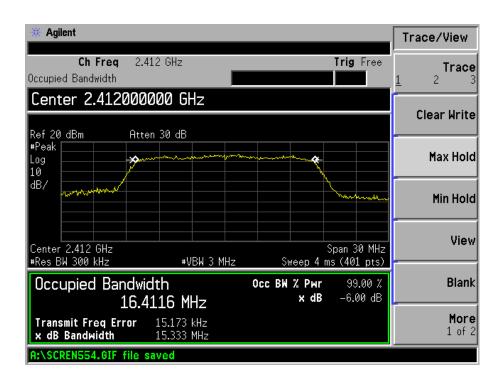
802.11b-Middle Channel



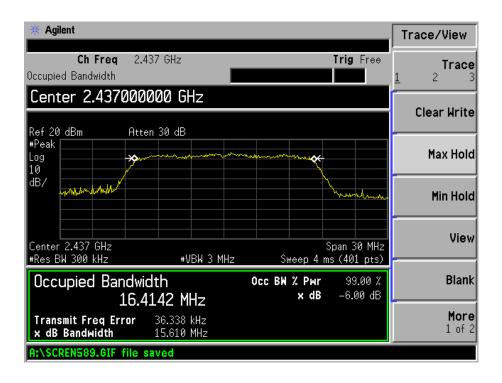
802.11b-High Channel



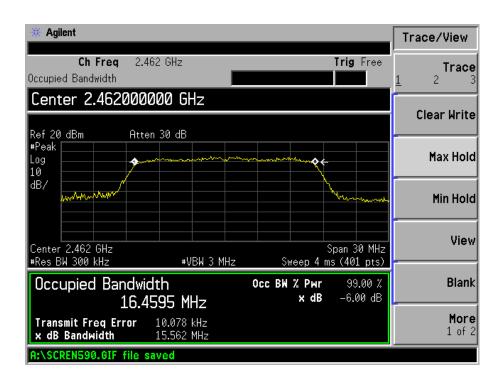
802.11g-Low Channel



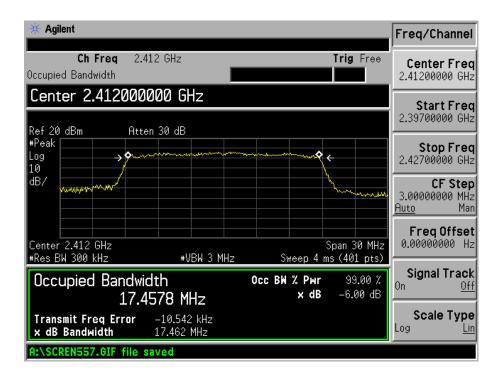
802.11g-Middle Channel



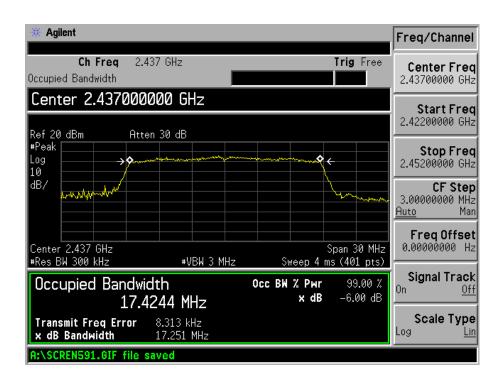
802.11g-High Channel



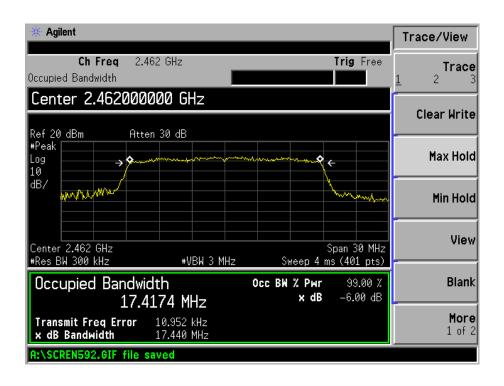
802.11n-HT20-Low Channel



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	2012-03-28	2013-03-27
Attenuator	ATTEN	ATS100-4-20	/	2012-03-28	2013-03-27

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-558074 (2012),

- 1. This procedure provides an integrated measurement alternative when the maximum available RBW < EBW.
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 3 MHz.
- 4. Set the span to a value that is 5-30 % greater than the EBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at 1 MHz intervals extending across the EBW of the spectrum.

6.4 Environmental Conditions

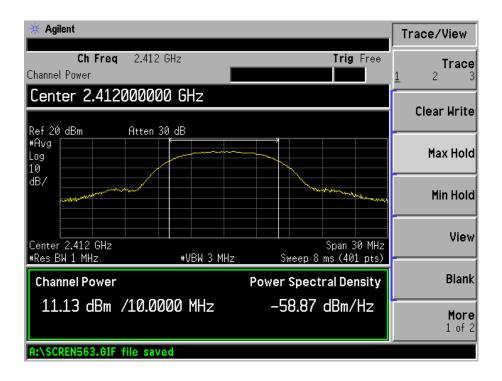
Temperature:	21° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

6.5 Summary of Test Results/Plots

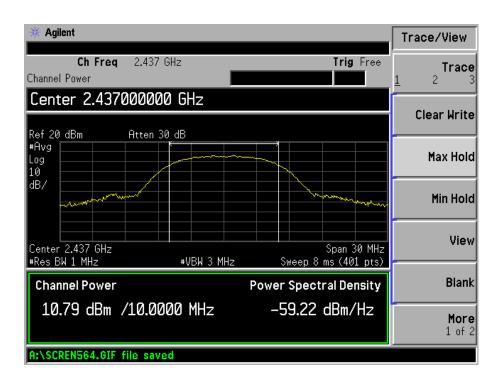
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
	2412	11.13	12.97	1000
802.11b _1Mbps	2437	10.79	12.00	1000
	2462	10.16	10.38	1000
	2412	10.88	12.25	1000
802.11b _11Mbps	2437	10.38	10.91	1000
	2462	9.88	9.73	1000
	2412	11.86	15.35	1000
802.11g_6Mbps	2437	11.64	14.59	1000
	2462	11.06	12.76	1000
	2412	10.62	11.53	1000
802.11g_54Mbps	2437	10.43	11.04	1000
	2462	9.36	8.63	1000
	2412	12.26	16.83	1000
802.11n HT20_MCS0	2437	11.45	13.96	1000
	2462	11.16	13.06	1000
	2412	10.24	10.57	1000
802.11n HT20_MCS7	2437	10.09	10.21	1000
	2462	9.30	8.51	1000

Please refer to the following test plots:

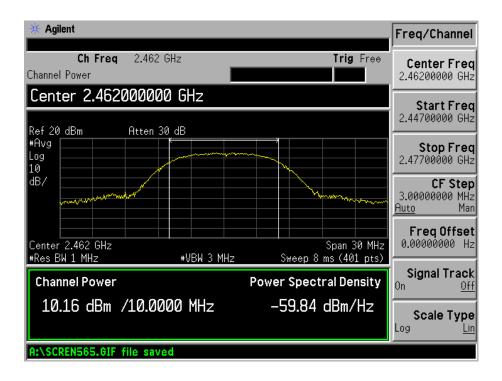
802.11b- 1Mbps-Low Channel



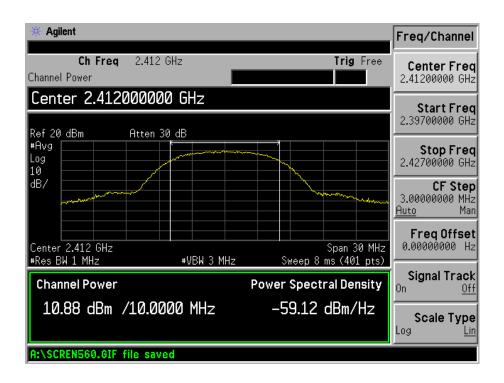
802.11b- 1Mbps-Middle Channel



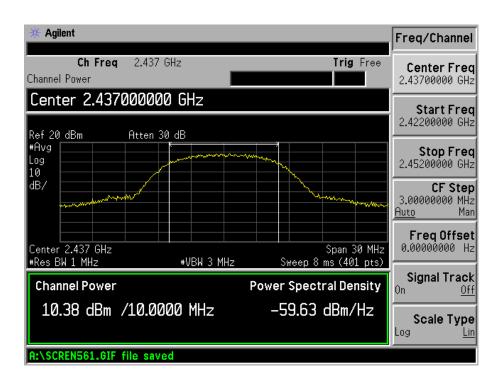
802.11b- 1Mpbs-High Channel



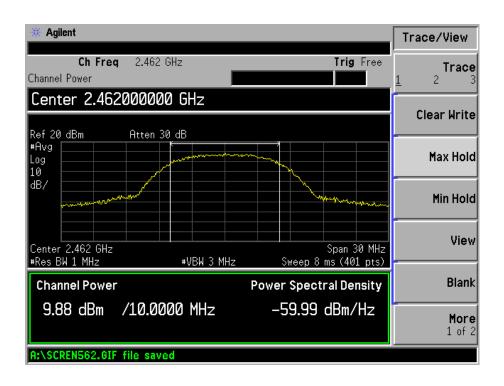
802.11b- 11Mbps-Low Channel



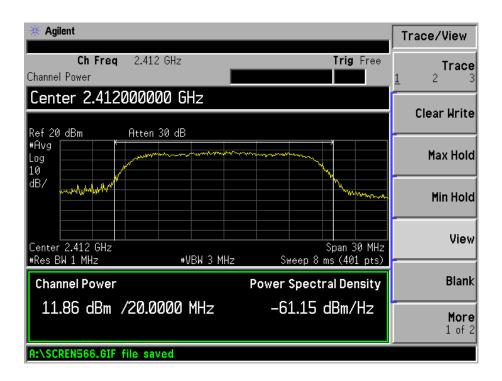
802.11b- 11Mbps-Middle Channel



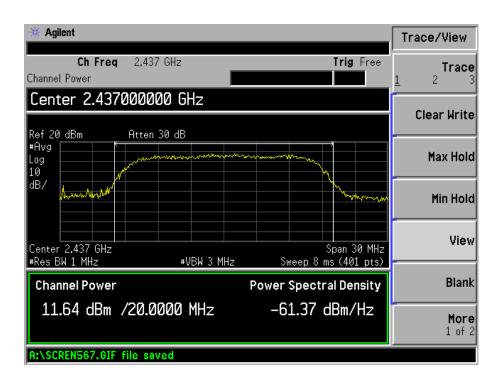
802.11b- 11Mpbs-High Channel



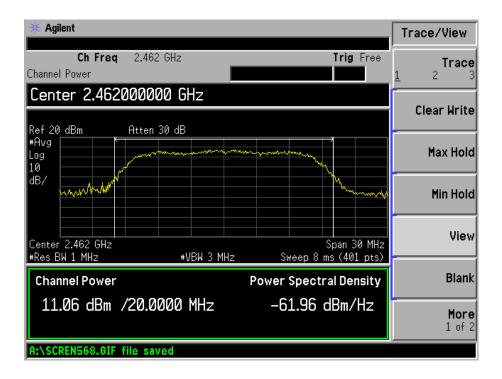
802.11g-6Mbps-Low Channel



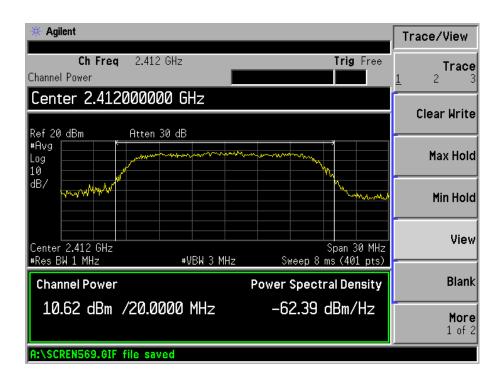
802.11g-6Mbps -Middle Channel



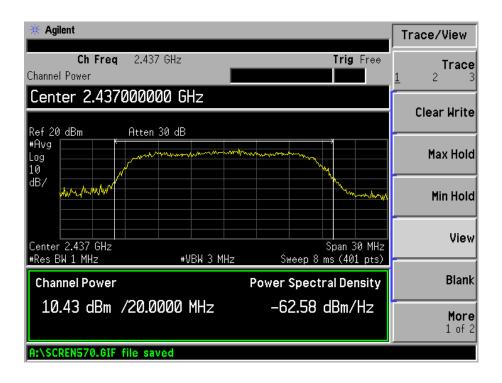
802.11g-6Mbps -High Channel



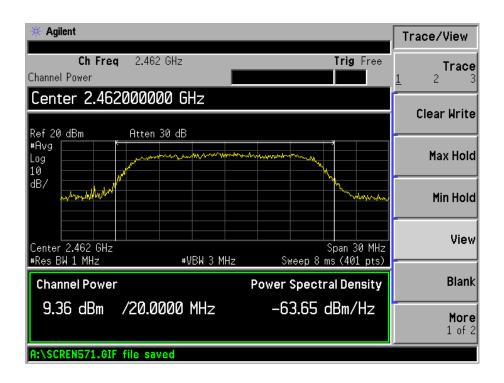
802.11g-54Mbps -Low Channel



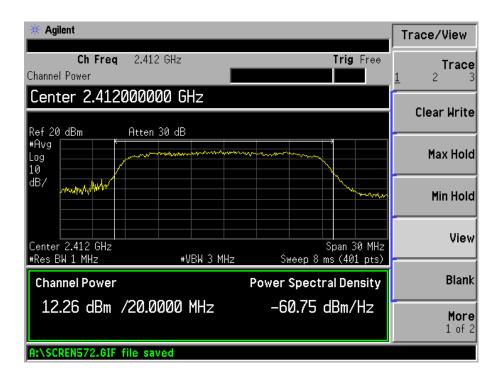
802.11g-54Mbps -Middle Channel



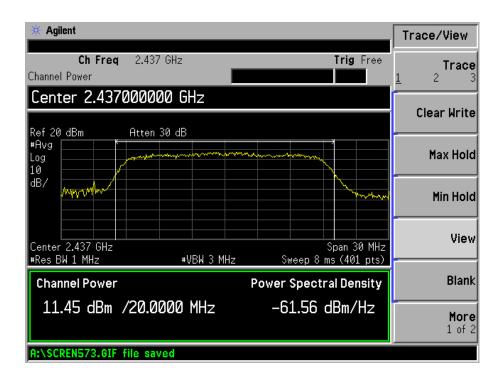
802.11g-54Mbps -High Channel



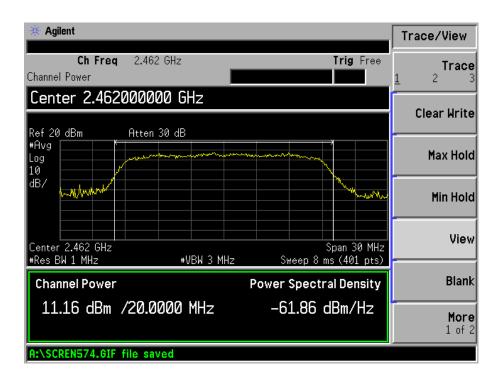
802.11n-HT20- MCS0-Low Channel



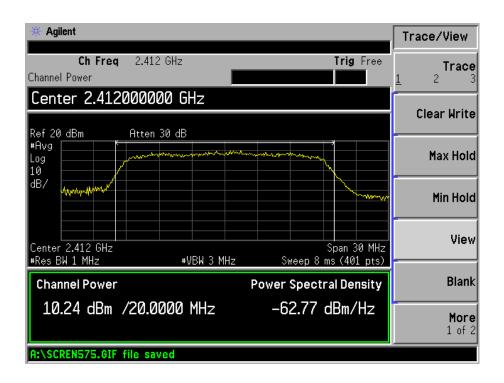
802.11n-HT20- MCS0-Middle Channel



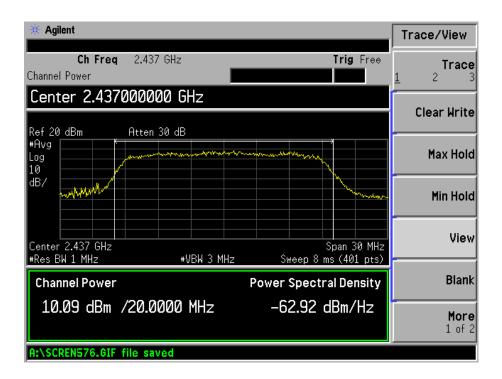
802.11n-HT20- MCS0-High Channel



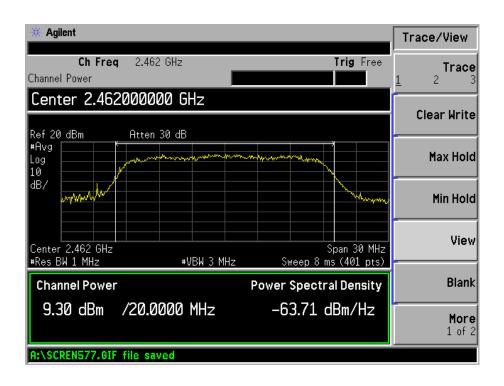
802.11n-HT20- MCS7-Low Channel



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

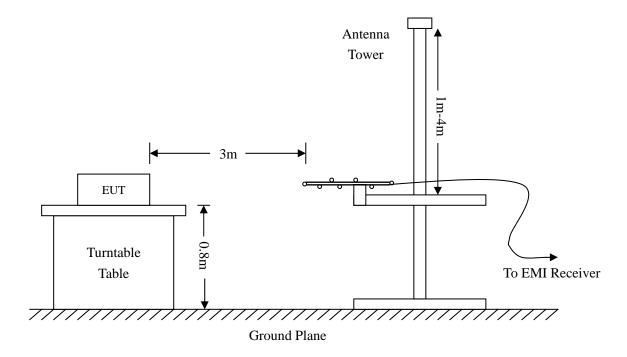
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2012-03-28	2013-03-27
EMI Test Receiver	R&S	ESVB	825471/005	2012-03-28	2013-03-27
Pre-amplifier	Agilent	8447F	3113A06717	2012-03-28	2013-03-27
Pre-amplifier	Pre-amplifier Compliance Direction		24002	2012-03-28	2013-03-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-02-25	2013-02-24
Horn Antenna	ETS	3117	00086197	2012-02-25	2013-02-24
Horn Antenna	Horn Antenna ETS		00088203	2012-02-25	2013-02-24
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2012-02-25	2013-02-24

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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

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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:

-6.05 dB μ V at 4824 MHz in the Horizontal polarization for 802.11n-HT20, Low Channel, 9 kHz to 25 GHz, 3 Meters

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

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

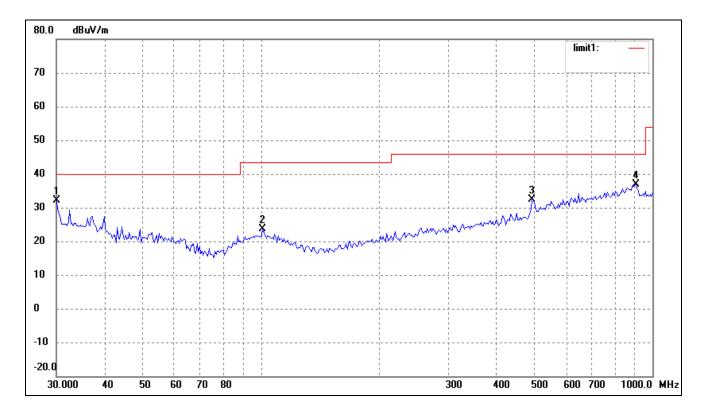
EUT: MID

Tested Model: HS-7DTB6

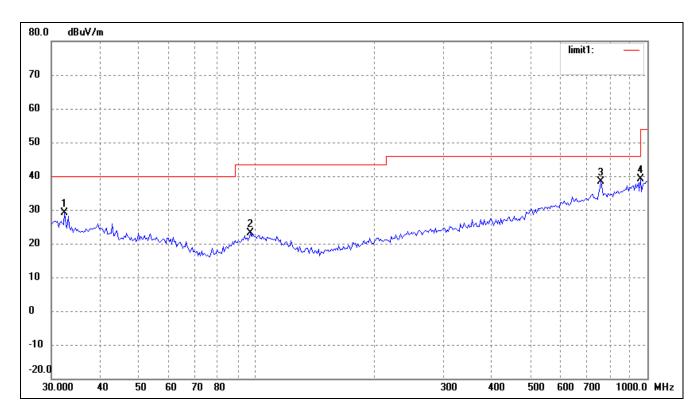
Operating Condition: 802.11b Transmitting Low Channel-2412MHz

Comment:

Test Specification: Horizontal



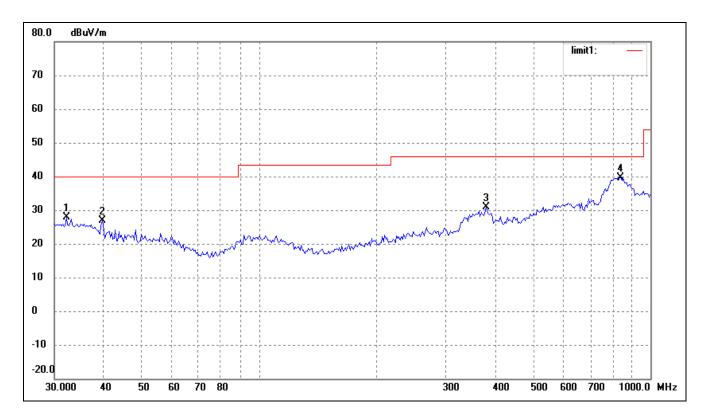
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	30.0000	25.24	6.77	32.01	40.00	-7.99	360	100	peak
2	100.9340	15.19	8.34	23.53	43.50	-19.97	360	100	peak
3	492.4685	18.77	13.67	32.44	46.00	-13.56	360	100	peak
4	906.4824	15.96	21.02	36.98	46.00	-9.02	360	100	peak



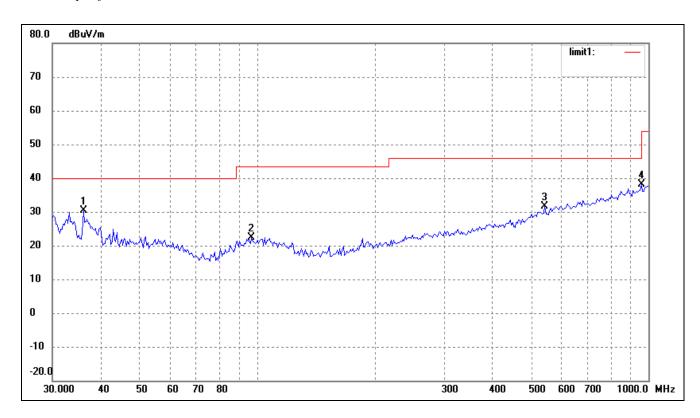
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.4059	22.46	6.77	29.23	40.00	-10.77	360	100	peak
2	96.7749	14.88	8.19	23.07	43.50	-20.43	360	100	peak
3	760.7036	20.01	18.42	38.43	46.00	-7.57	360	100	peak
4	958.7943	17.15	21.98	39.13	46.00	-6.87	360	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

Comment:



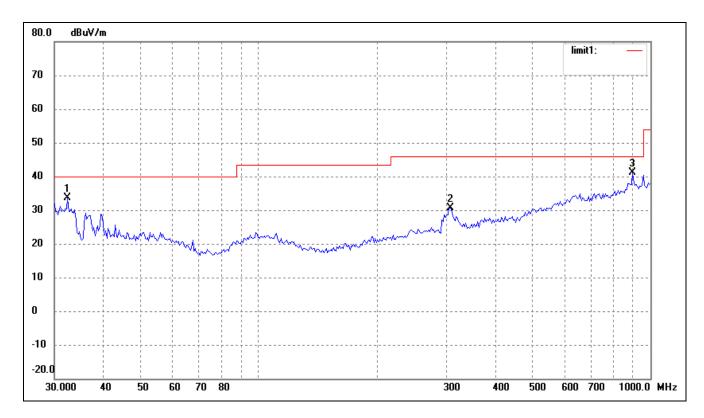
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	21.06	6.77	27.83	40.00	-12.17	360	100	peak
2	39.7147	18.80	8.07	26.87	40.00	-13.13	360	100	peak
3	379.9141	19.63	11.20	30.83	46.00	-15.17	360	100	peak
4	839.1818	19.98	19.75	39.73	46.00	-6.27	360	100	peak



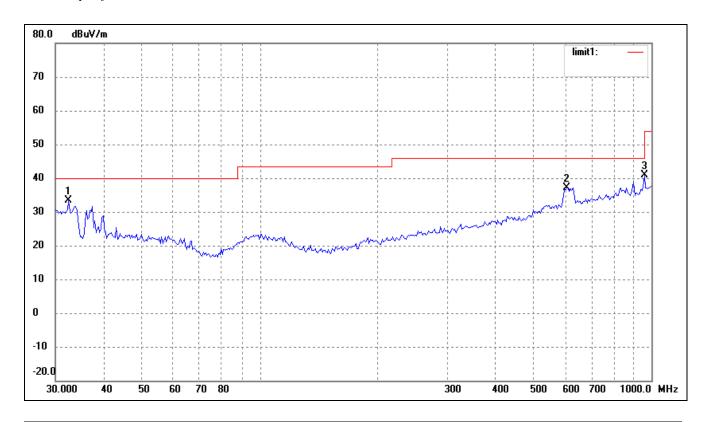
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	36.0007	23.34	7.05	30.39	40.00	-9.61	360	100	peak
2	96.7749	14.23	8.19	22.42	43.50	-21.08	360	100	peak
3	543.2742	16.30	15.38	31.68	46.00	-14.32	360	100	peak
4	958.7943	16.16	21.98	38.14	46.00	-7.86	360	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

Comment:



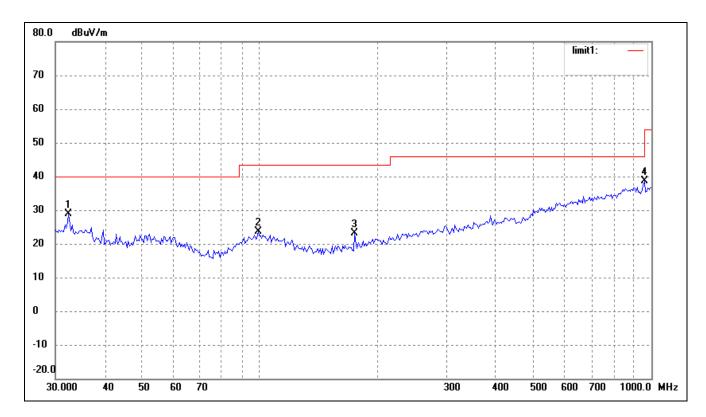
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.4059	26.86	6.77	33.63	40.00	-6.37	360	100	peak
2	307.8313	20.69	9.86	30.55	46.00	-15.45	360	100	peak
3	900.1474	20.18	20.90	41.08	46.00	-4.92	360	100	peak



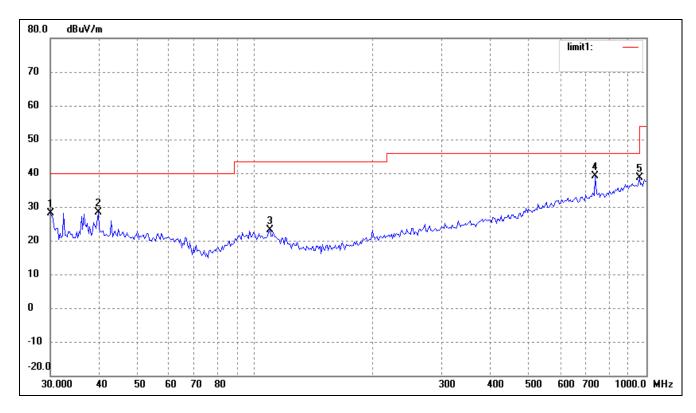
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.4059	26.50	6.77	33.27	40.00	-6.73	360	100	peak
2	607.7867	20.48	16.73	37.21	46.00	-8.79	360	100	peak
3	958.7943	18.84	21.98	40.82	46.00	-5.18	360	100	peak

Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment:



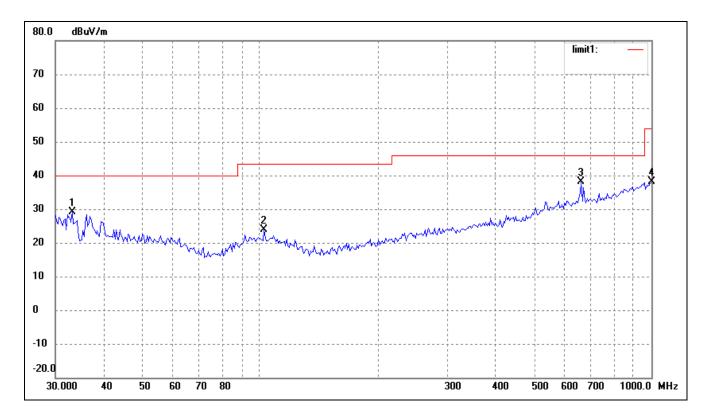
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.4059	22.07	6.77	28.84	40.00	-11.16	360	100	peak
2	98.8326	15.37	8.34	23.71	43.50	-19.79	110	124	QP
3	174.4241	17.92	5.22	23.14	43.50	-20.36	208	104	QP
4	958.7943	16.68	21.98	38.66	46.00	-7.34	359	100	peak



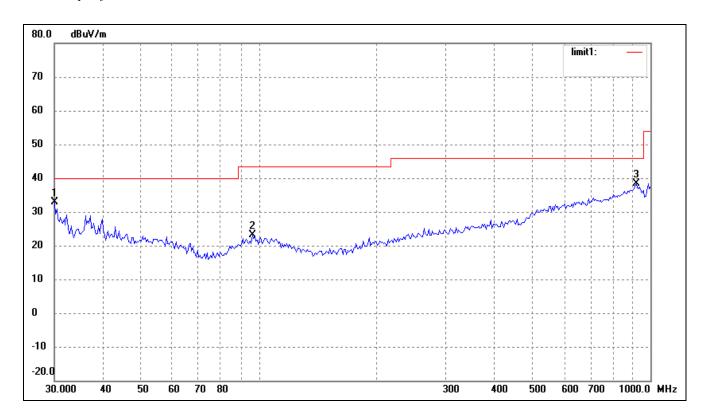
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	30.0000	21.38	6.77	28.15	40.00	-11.85	201	204	QP
2	39.7147	20.41	8.07	28.48	40.00	-11.52	360	100	peak
3	109.0286	15.41	7.68	23.09	43.50	-20.41	118	100	QP
4	739.6605	21.07	18.09	39.16	46.00	-6.84	359	100	peak
5	958.7943	16.59	21.98	38.57	46.00	-7.43	359	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

Comment:



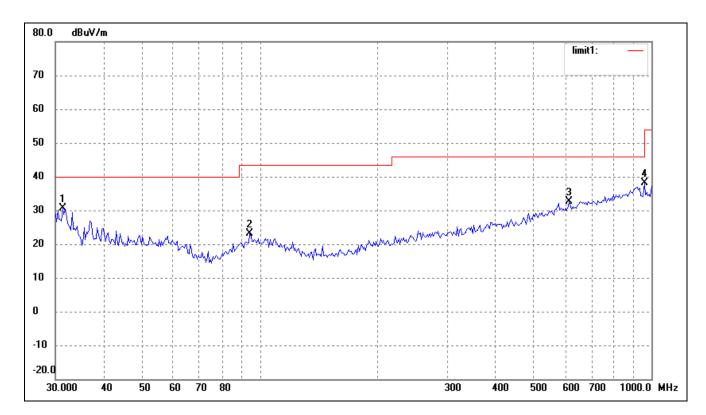
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	22.41	6.77	29.18	40.00	-10.82	360	100	peak
2	102.3597	15.76	8.23	23.99	43.50	-19.51	0	100	peak
3	661.1505	20.85	17.18	38.03	46.00	-7.97	203	105	QP
4	1000.0000	15.39	22.74	38.13	54.00	-15.87	221	114	QP



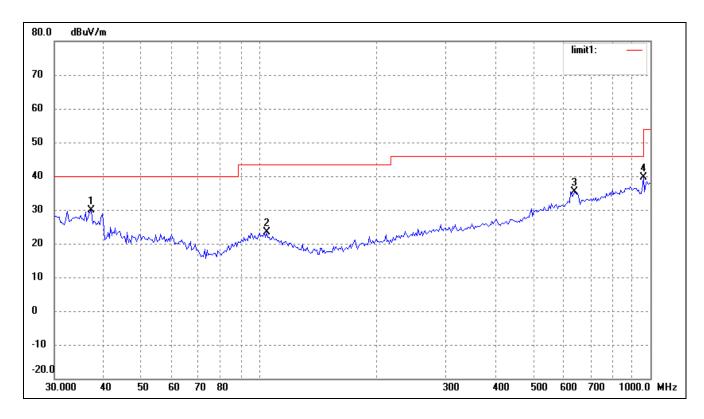
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	30.0000	26.07	6.77	32.84	40.00	-7.16	204	164	QP
2	96.0986	14.94	8.14	23.08	43.50	-20.42	360	200	peak
3	919.2866	17.20	21.26	38.46	46.00	-7.54	221	107	QP

Operating Condition: 802.11g Transmitting High Channel-2462MHz

Comment:



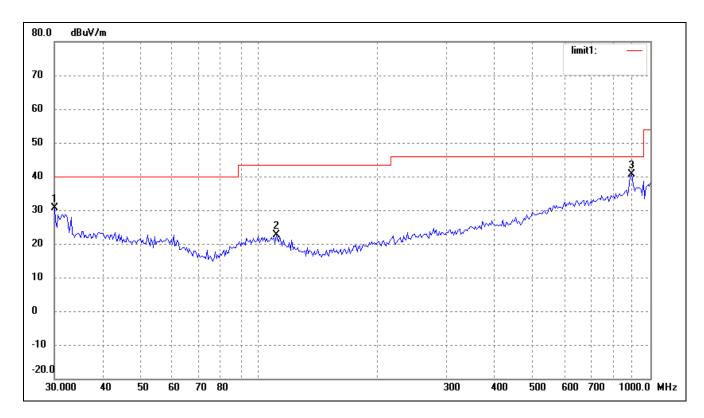
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	31.2893	23.76	6.77	30.53	40.00	-9.47	216	206	QP
2	94.0979	15.34	7.88	23.22	43.50	-20.28	360	100	peak
3	616.3718	15.75	16.80	32.55	46.00	-13.45	208	106	QP
4	958.7943	16.19	21.98	38.17	46.00	-7.83	127	119	QP



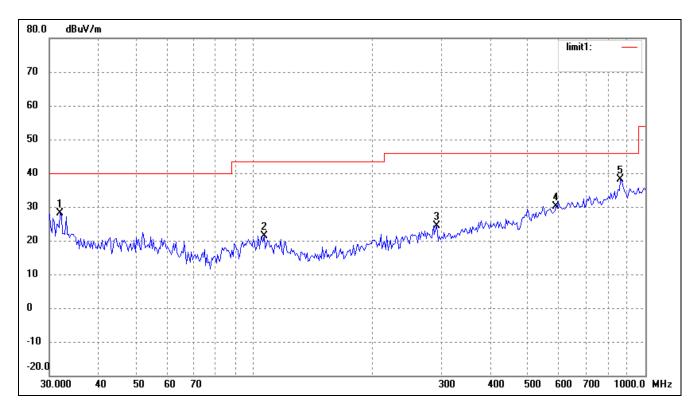
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	37.2855	22.54	7.40	29.94	40.00	-10.06	204	124	QP
2	104.5361	15.29	8.04	23.33	43.50	-20.17	360	100	peak
3	638.3686	18.42	16.99	35.41	46.00	-10.59	225	106	QP
4	958.7943	17.55	21.98	39.53	46.00	-6.47	359	100	peak

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

Comment:



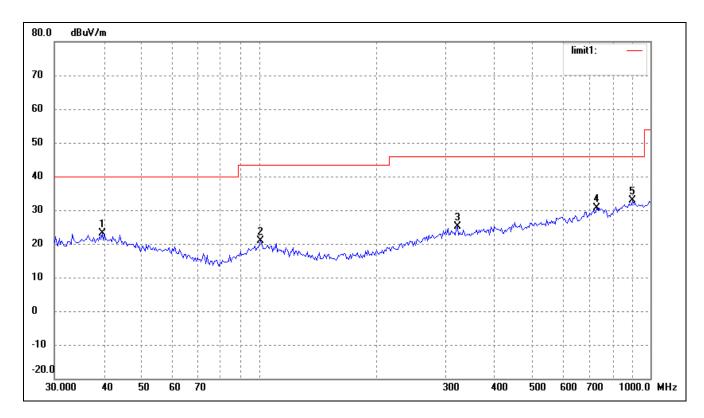
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	30.0000	23.77	6.77	30.54	40.00	-9.46	360	100	peak
2	110.5687	15.23	7.50	22.73	43.50	-20.77	360	100	peak
3	893.8567	19.96	20.78	40.74	46.00	-5.26	360	100	peak



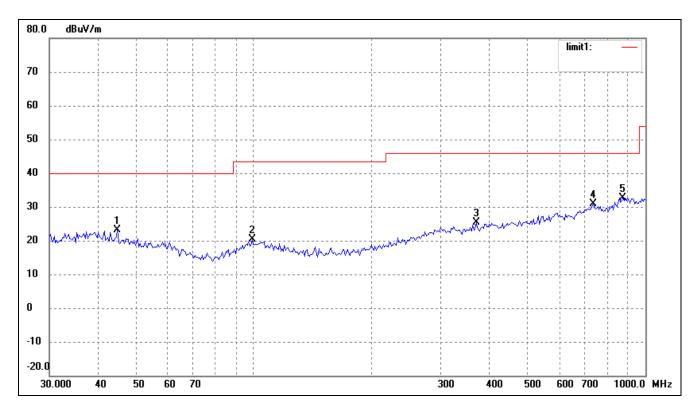
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	31.9546	21.27	6.77	28.04	40.00	-11.96	360	100	peak
2	106.0126	13.50	7.93	21.43	43.50	-22.07	360	100	peak
3	293.0842	14.75	9.68	24.43	46.00	-21.57	360	100	peak
4	590.9737	13.59	16.46	30.05	46.00	-15.95	360	100	peak
5	863.0562	17.98	20.21	38.19	46.00	-7.81	360	100	peak

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

Comment:



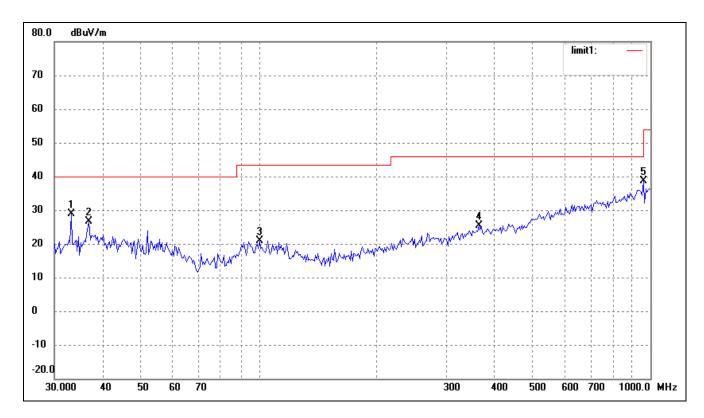
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.7147	14.35	8.82	23.17	40.00	-16.83	162	100	peak
2	100.9340	14.84	6.05	20.89	43.50	-22.61	200	100	peak
3	321.0608	15.77	9.25	25.02	46.00	-20.98	359	200	Peak
4	729.3583	15.79	14.87	30.66	46.00	-15.34	359	200	peak
5	900.1474	16.01	16.75	32.76	46.00	-13.24	359	200	peak



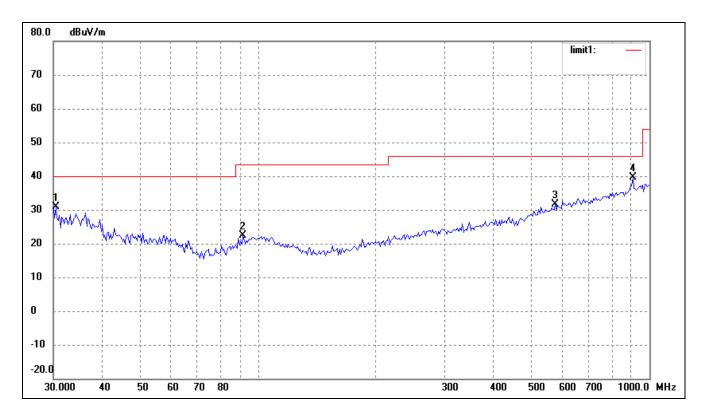
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	44.7434	15.55	7.48	23.03	40.00	-16.97	240	100	peak
2	98.8326	14.45	5.85	20.30	43.50	-23.20	187	100	peak
3	369.4047	16.07	9.25	25.32	46.00	-20.68	220	100	peak
4	734.4913	15.61	15.18	30.79	46.00	-15.21	359	100	peak
5	875.2470	16.12	16.62	32.74	46.00	-13.26	359	100	peak

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

Comment:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	22.13	6.77	28.90	40.00	-11.10	360	100	peak
2	36.7662	19.41	7.25	26.66	40.00	-13.34	360	100	peak
3	100.2286	12.59	8.41	21.00	43.50	-22.50	360	100	peak
4	364.2595	14.43	10.96	25.39	46.00	-20.61	360	100	peak
5	958.7943	16.74	21.98	38.72	46.00	-7.28	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	30.4238	24.20	6.77	30.97	40.00	-9.03	360	100	peak
2	91.4949	15.10	7.37	22.47	43.50	-21.03	360	100	peak
3	574.6258	15.52	16.10	31.62	46.00	-14.38	360	100	peak
4	906.4824	18.61	21.02	39.63	46.00	-6.37	360	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	60.13	-3.85	56.28	74.00	-17.72	Н	PK
4824	42.95	-3.85	39.10	54.00	-14.90	Н	AV
7236	46.12	1.14	47.26	74.00	-26.74	Н	PK
7236	35.45	1.14	36.59	54.00	-17.41	Н	AV
4824	63.71	-3.85	59.86	74.00	-14.14	V	PK
4824	46.75	-3.85	42.90	54.00	-11.10	V	AV
7236	48.41	1.14	49.55	74.00	-24.45	V	PK
7236	35.51	1.14	36.63	54.00	-17.37	V	AV
			Middle Chan	nel-2437MHz			
4874	57.70	-3.71	53.99	74.00	-20.01	Н	PK
4874	41.84	-3.71	38.13	54.00	-15.87	Н	AV
7311	49.35	1.59	50.94	74.00	-23.06	Н	PK
7311	35.92	1.59	37.51	54.00	-16.49	Н	AV
4874	62.55	-3.71	58.84	74.00	-15.16	V	PK
4874	45.45	-3.71	41.74	54.00	-12.26	V	AV
7311	48.56	1.59	50.15	74.00	-23.85	V	PK
7311	36.29	1.59	37.88	54.00	-16.12	V	AV
			High Chann	el-2462MHz			
4924	58.38	-3.57	54.81	74.00	-19.19	Н	PK
4924	42.22	-3.57	38.65	54.00	-15.35	Н	AV
7386	47.54	1.91	49.45	74.00	-24.55	Н	PK
7386	35.69	1.91	37.62	54.00	-16.38	Н	AV
4924	66.25	-3.57	62.68	74.00	-11.32	V	PK
4924	49.02	-3.57	45.45	54.00	-8.55	V	AV
7386	49.48	1.91	51.39	74.00	-22.61	V	PK
7386	36.97	1.91	38.88	54.00	-15.12	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 Channel-2412MHz											
4824	52.73	-3.85	48.88	74.00	-25.12	Н	PK					
4824	39.07	-3.85	35.22	54.00	-18.78	Н	AV					
7236	47.13	2.26	49.39	74.00	-24.61	Н	PK					
7236	35.42	2.26	37.68	54.00	-16.32	Н	AV					
4824	47.63	-4.13	42.50	74.00	-31.50	V	PK					
4824	35.14	-4.13	31.01	54.00	-22.99	V	AV					
7236	48.17	2.23	50.40	74.00	-23.60	V	PK					
7236	35.47	2.23	37.70	54.00	-16.30	V	AV					
			Middle Chan	nel-2437MHz								
4874	53.53	-3.71	49.82	74.00	-24.18	Н	PK					
4874	40.62	-3.71	36.91	54.00	-17.09	Н	AV					
7311	48.36	2.07	49.73	74.00	-24.27	Н	PK					
7311	35.29	2.07	37.36	54.00	-16.64	Н	AV					
4874	47.88	-3.71	44.17	74.00	-29.83	V	PK					
4874	36.80	-3.71	33.09	54.00	-20.91	V	AV					
7311	46.88	2.23	49.11	74.00	-24.89	V	PK					
7311	35.38	2.23	37.61	54.00	-16.39	V	AV					
			High Chann	el-2462MHz								
4924	63.51	-3.57	59.94	74.00	-14.06	Н	PK					
4924	49.77	-3.57	46.20	54.00	-7.80	Н	AV					
7386	49.97	1.91	51.88	74.00	-22.12	Н	PK					
7386	37.11	1.91	39.02	54.00	-14.98	Н	AV					
4924	48.84	-3.57	45.27	74.00	-28.73	V	PK					
4924	37.25	-3.57	33.68	54.00	-20.32	V	AV					
7386	48.12	2.23	50.35	74.00	-23.65	V	PK					
7386	35.47	2.23	37.70	54.00	-16.30	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	65.55	-3.85	61.70	74.00	-12.30	Н	PK
4824	51.80	-3.85	47.95	54.00	-6.05	Н	AV
7236	54.92	1.14	56.06	74.00	-17.94	Н	PK
7236	38.33	1.14	39.47	54.00	-14.53	Н	AV
4824	68.46	-3.85	64.61	74.00	-9.39	V	PK
4824	52.81	-3.85	48.96	54.00	-5.04	V	AV
7236	57.57	1.14	58.71	74.00	-15.29	V	PK
7236	38.29	1.14	39.43	54.00	-14.57	V	AV
			Middle Chan	nel-2437MHz			
4874	62.86	-3.71	59.15	74.00	-14.85	Н	PK
4874	49.40	-3.71	45.69	54.00	-8.31	Н	AV
7311	50.43	1.59	52.02	74.00	-21.98	Н	PK
7311	36.68	1.59	38.27	54.00	-15.73	Н	AV
4874	64.99	-3.71	61.28	74.00	-12.72	V	PK
4874	51.48	-3.71	47.77	54.00	-6.23	V	AV
7311	53.11	1.59	54.70	74.00	-19.30	V	PK
7311	38.48	1.59	40.07	54.00	-13.93	V	AV
			High Chann	el-2462MHz			
4924	63.29	-3.57	59.72	74.00	-14.28	Н	PK
4924	49.07	-3.57	45.50	54.00	-8.50	Н	AV
7386	48.12	1.91	50.03	74.00	-23.97	Н	PK
7386	36.35	1.91	38.26	54.00	-15.74	Н	AV
4924	61.01	-3.57	57.44	74.00	-16.56	V	PK
4924	48.37	-3.57	44.80	54.00	-9.20	V	AV
7386	52.01	1.91	53.92	74.00	-20.08	V	PK
7386	39.72	1.91	41.63	54.00	-12.37	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th 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 are not recorded.

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	2012-03-28	2013-03-27
EMI Test Receiver	R&S	ESVB	825471/005	2012-03-28	2013-03-27
Pre-amplifier	Agilent	8447F	3113A06717	2012-03-28	2013-03-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2012-03-28	2013-03-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-02-25	2013-02-24
Horn Antenna	ETS	3117	00086197	2012-02-25	2013-02-24

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 porduct 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.

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8.4 Environmental Conditions

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

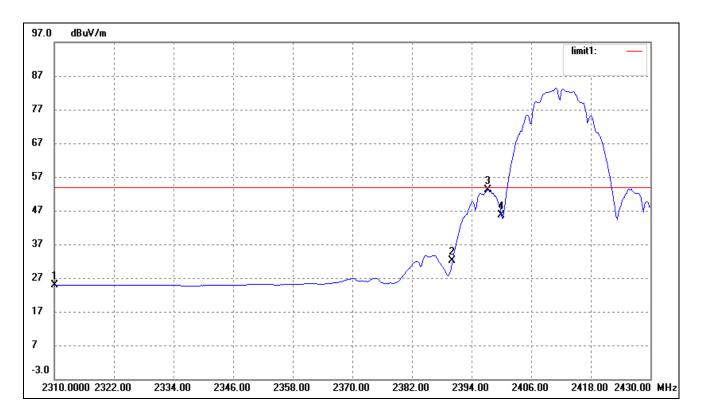
8.5 Summary of Test Results/Plots

Test Mode	Test Frequency MHz	Limit dBuV / dBc	Result
	2390.00	<54 dBuV	Pass
902.115	2397.242	<54 dBuV	Pass
802.11b	2400.00	<54 dBuV	Pass
	2483.50	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
802.11g	2400.00	<54 dBuV	Pass
	2483.50	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
802.11n-HT20	2400.00	<54 dBuV	Pass
	2483.50	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
802.11n-HT40	2400.00	<54 dBuV	Pass
	2483.50	<54 dBuV	Pass

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

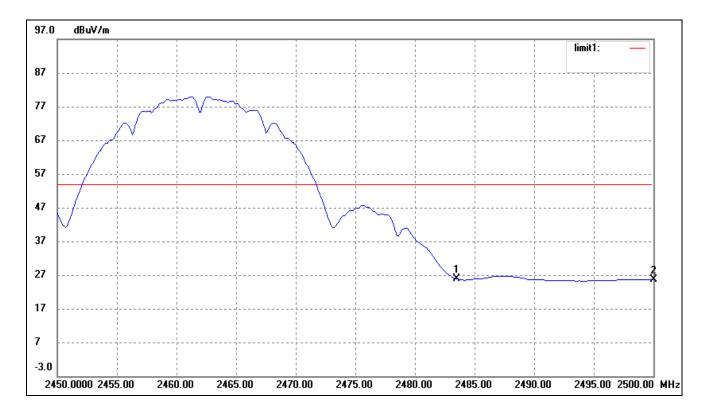
Please refer to the test plots as below.

For 802.11b Lowest Bandedge



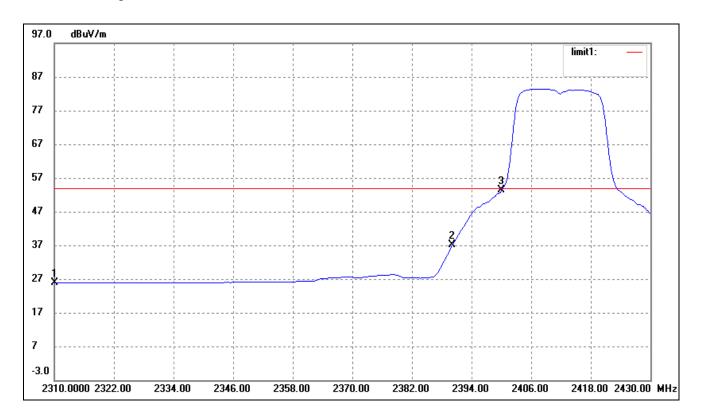
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	2310.000	32.29	-7.51	24.78	54.00	-29.22	226	100	Ave
	2310.000	46.56	-7.51	39.05	74.00	-34.95	336	100	peak
2	2390.000	39.51	-7.34	32.17	54.00	-21.83	226	100	Ave
	2390.000	50.22	-7.34	42.88	74.00	-31.12	226	100	peak
3	2397.242	60.47	-7.31	53.16	54.00	-0.84	226	100	Ave
	2397.242	65.58	-7.31	58.27	74.00	-15.73	226	100	peak
4	2400.000	53.04	-7.31	45.73	54.00	-8.27	226	100	Ave
	2400.000	60.72	-7.31	53.41	74.00	-20.59	226	100	peak

For 802.11b Highest Bandedge



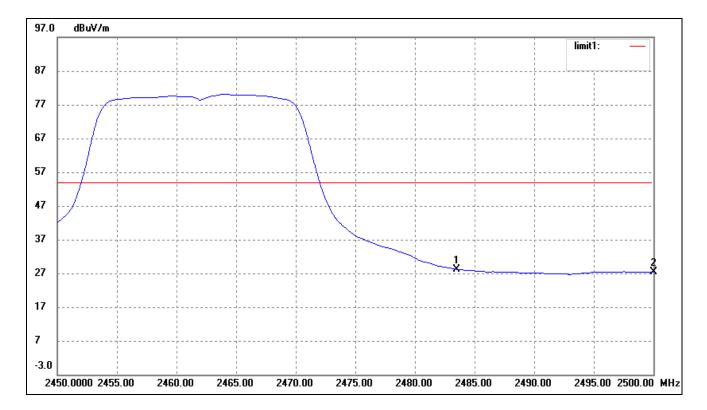
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	2483.500	32.90	-7.13	25.77	54.00	-28.23	226	100	Ave
	2483.500	45.60	-7.13	38.47	74.00	-35.53	226	100	peak
2	2500.000	32.71	-7.08	25.63	54.00	-28.37	226	100	Ave
	2500.000	45.90	-7.08	38.82	74.00	-35.18	226	100	peak

For 802.11g Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2310.000	33.29	-7.51	25.78	54.00	-28.22	226	100	Ave
	2310.000	45.73	-7.51	38.22	74.00	-35.78	226	100	peak
2	2390.000	44.48	-7.34	37.14	54.00	-16.86	226	100	Ave
	2390.000	64.17	-7.34	56.83	74.00	-17.17	226	100	peak
3	2400.000	60.61	-7.31	53.30	54.00	-0.70	226	100	Ave
	2400.000	80.50	-7.31	73.19	74.00	-0.81	226	100	peak

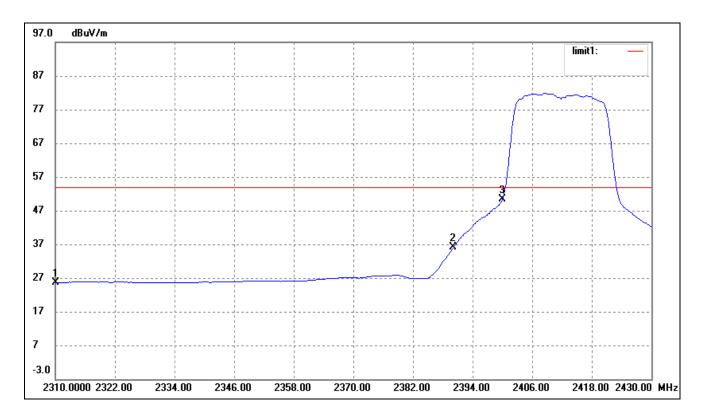
Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2483.500	35.36	-7.13	28.23	54.00	-25.77	226	100	Ave
	2483.500	49.55	-7.13	42.42	74.00	-31.58	226	100	peak
2	2500.000	34.45	-7.08	27.37	54.00	-26.63	226	100	Ave
	2500.000	46.96	-7.08	39.88	74.00	-34.12	226	100	peak

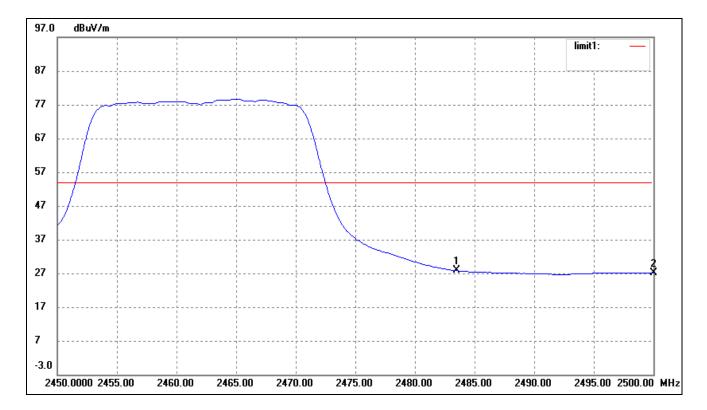
For 802.11n-HT20

Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2310.000	33.18	-7.51	25.67	54.00	-28.33	226	100	Ave
	2310.000	46.01	-7.51	38.50	74.00	-35.50	226	100	peak
2	2390.000	43.40	-7.34	36.06	54.00	-17.94	226	100	Ave
	2390.000	66.85	-7.34	59.51	74.00	-14.49	226	100	peak
3	2400.000	57.74	-7.31	50.43	54.00	-3.57	226	100	Ave
	2400.000	79.02	-7.31	71.71	74.00	-2.29	226	100	peak

Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2483.500	34.94	-7.13	27.81	54.00	-26.19	226	100	Ave
	2483.500	50.08	-7.13	42.95	74.00	-31.05	226	100	peak
2	2500.000	34.18	-7.08	27.10	54.00	-26.90	226	100	Ave
	2500.000	46.52	-7.08	39.44	74.00	-34.56	226	100	peak

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

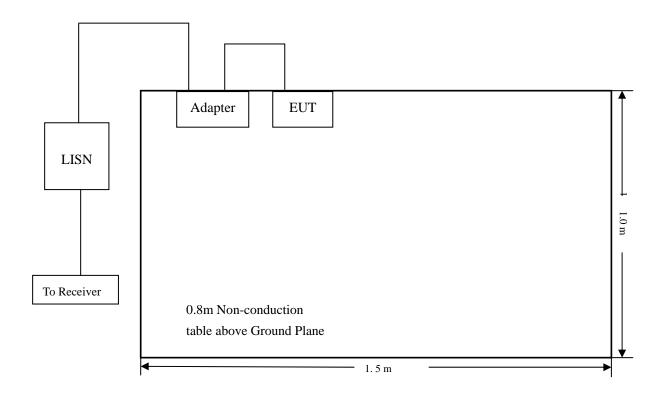
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2012-03-28	2013-03-27
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2012-03-28	2013-03-27
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2012-03-28	2013-03-27

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

9.3 Test Procedure

Test is conducting under the description of 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.

9.4 Basic Test Setup Block Diagram



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9.5 Environmental Conditions

Temperature:	20° C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

9.6 Summary of Test Results/Plots

According to the data in section 9.7, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-2.47 $dB\mu V$ at 0.182 MHz in the Neutral, Peak Detector, 0.15-30MHz

9.7 Conducted Emissions Test Data

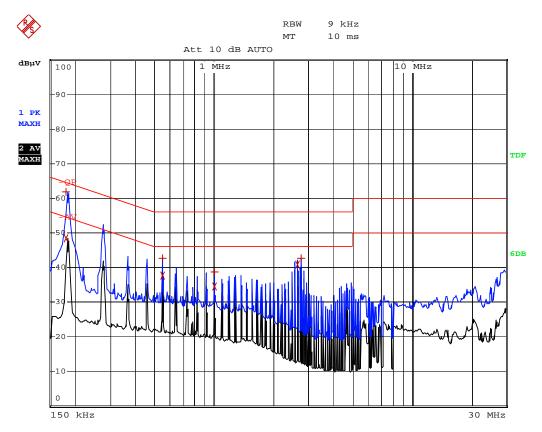
Plot of Conducted Emissions Test Data

EUT: MID

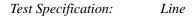
Tested Model: HS-7DTB6
Operating Condition: Transmition

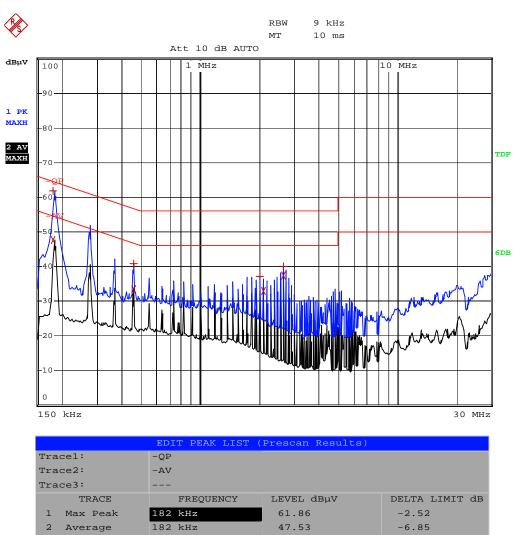
Comment: AC120V/60Hz Adapter DC5V

Test Specification: Neutral



	FOIT DEAK LIST /	Prescan Pesults)					
Tracel: -OP EDIT PEAK LIST (Prescan Results)							
	~						
Trace2:	-AV						
Trace3:							
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB				
1 Max Peak	182 kHz	61.91	-2.47				
2 Average	182 kHz	48.34	-6.05				
1 Max Peak	550 kHz	42.68	-13.32				
2 Average	550 kHz	37.65	-8.34				
1 Max Peak	1.006 MHz	38.78	-17.21				
2 Average	1.006 MHz	34.64	-11.36				
2 Average	2.658 MHz	40.72	-5.27				
1 Max Peak	2.75 MHz	42.55	-13.44				





	EDIT PEAK LIST (Prescan Results)				
Trace1:	-QP					
Trace2:	-AV					
Trace3:						
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB			
1 Max Peak	182 kHz	61.86	-2.52			
2 Average	182 kHz	47.53	-6.85			
1 Max Peak	458 kHz	40.86	-15.86			
2 Average	458 kHz	33.44	-13.28			
1 Max Peak	2.01 MHz	37.10	-18.89			
2 Average	2.102 MHz	32.99	-13.00			
1 Max Peak	2.646 MHz	39.97	-16.02			
2 Average	2.65 MHz	37.29	-8.70			

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