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Dates of Tests: Dec 29, 2013 ~ Jan 21,2014 Test Report S/N: LR500111401E

Test Site: LTA Co., Ltd.

CERTIFICATION OF COMPLIANCE

FCC ID.

2ABQ2N9000

APPLICANT

netisit co., ltd

Equipment Class : Digital Transmission System (DTS)

Manufacturing Description: netis tablet PCManufacturer: netisit co., ltd

Model name : N9000

Test Device Serial No.: : Identical prototype

Rule Part(s) : FCC Part 15.247 Subpart C; ANSI C-63.4-2003

Frequency Range : $2412MHz \sim 2462MHz$ for 802.11b/g/n20

2422MHz ~ 2452MHz for 802.11n40

Max. Output Power : Max 15.32dBm Conducted (802.11b)

: Max 14.19dBm - Conducted (802.11g)

Max 19.11dBm - Conducted (802.11n_20MHz) Max 18.35dBm - Conducted (802.11n_40MHz)

Data of issue : January 22, 2014

This test report is issued under the authority of:

The test was supervised by:

Jae-Ho Lee, Manager

Young-Jin Lee, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. This report must not be used by the applicant to claim product endorsement by any agency.



NVLAP LAB Code.: 200723-0

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1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.

Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822

Web site : http://www.ltalab.com
E-mail : chahn@ltalab.com
Telephone : +82-31-323-6008
Facsimile +82-31-323-6010

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2014-09-30	ECT accredited Lab.
RRA	KOREA	KR0049	2015-03-06	EMC accredited Lab.
FCC	U.S.A	610755	2014-04-27	FCC filing
FCC	U.S.A	649054	2015-04-17	FCC CAB
VCCI	JAPAN	R2133(10m), C2307	2014-03-21	VCCI registration
VCCI	JAPAN	T-2009	2016-12-23	VCCI registration
VCCI	JAPAN	G-563	2015-05-28	VCCI registration
IC	CANADA	5799A-1	2015-06-21	IC filing

2. Information about test item

2-1 Manufacturer

Company name : netisit co., ltd

Address : Anyang K-center 1002~1003, 25, Simin-daero 248beon-gil,

Dongan-gu, Anyang-si, Gyeonggi-do

Tel / Fax : Tel : +82-31-387-1988 / Fax :+82-31-387-1989

2-2 Equipment Under Test (EUT)

Trade name : netisit co., ltd

Model name : N9000

Serial number : Identical prototype

Date of receipt : Dec 23, 2013

EUT condition : Pre-production, not damaged

Antenna type : Internal PiFA Antenna Max Gain 3.8dBi Frequency Range : 2412MHz ~ 2462MHz for 802.11b/g/n20

2422MHz ~ 2452MHz for 802.11n40

RF output power : Max 15.40dBm - Conducted (802.11b)

: Max 14.19dBm - Conducted (802.11g)

: Max 19.11dBm - Conducted(802.11n_20MHz)

: Max 18.35dBm - Conducted(802.11_40MHz)

Number of channels : 11 for 802.11b & 802.11g & 802.11n_20MHz

: 7 for 802.11n_40MHz

Type of Modulation : CCK, DQPSK, DBPSK for DSSS

: 64QAM, 16QAM, QPSK, BPSK for OFDM

Transfer Rate : 11/5.5/2/1Mbps for 802.11b

: 54/48/36/24/18/12/9/6Mbps for 802.11g

: Up to 300.0Mbps

Power Source for Batt. : DC 7.4V by Battery

Power for Adaptor. : Input: 100-240Vac, 1.5A Output: 12.0Vdc, 5A

Firmware Version : V 1.0.0

2-3 Tested frequency

	LOW	MID	HIGH
Frequency (MHz) for 802.11b/g/n20	2412	2437	2462
Frequency (MHz) for 802.11n40	2422	2437	2452

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
-	-	-	-

2-5 Description of Test modes

For 2.4GHz:

11 channels are provided for 802.11b, 802.11g and 802.11n_20MHz

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6 2437MHz			

For 2.4GHz:

7 channels are provided for 802.11n_40MHz

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	6 2437MHz		

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	6 dB Bandwidth	> 500kHz		С
15.247(b)	Transmitter Peak Output Power	< 1Watt	Conducted	С
15.247(d)	Transmitter Power Spectral Density	< 8dBm @ 3kHz	Conducted	С
15.247(d)	Band Edge & Spurious	> 20 dBc		С
15.209	Field Strength of Harmonics	Emission	Radiated	С
15.207	AC Conducted Emissions	Emissions	Conducted	С
15.203	Antenna requirement	-	-	С

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

→ Antenna Requirement

The **netisit co., ltd FCC ID: 2ABQ2N9000** unit complies with the requirement of §15.203. The antenna is connected to inside of EUT. And type is Internal PiFA Antenna

The sample was tested according to the following specification:

*FCC Parts 15.247; ANSI C-63.4-2009

*FCC KDB Publication No. 558074 D01 DTS Meas. Guidance V02

*FCC TCB Workshop 2012, April

3.2 Technical Characteristics Test

3.2.1 6 dB Bandwidth

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The bandwidth at 6dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz Span = 30 MHz

VBW = 300 kHz (VBW RBW) Sweep = auto

Trace = max hold Detector function = peak

Measurement Data: 2.4GHz Band

Mode Frequency		Channel No.	Test Results	
Mode	(MHz)	Chamie No.	Measured Bandwidth (MHz)	Result
	2412	1	10.51	Complies
802.11b	2437	6	11.25	Complies
	2462	11	11.20	Complies
	2412	1	16.54	Complies
802.11g	2437	6	16.59	Complies
	2462	11	16.59	Complies
902 11	2412	1	17.76	Complies
802.11n 20MHz	2437	6	17.71	Complies
	2462	11	17.76	Complies
902 11 _m	2422	3	36.30	Complies
802.11n _40MHz	2437	6	36.30	Complies
_401/1112	2452	9	36.21	Complies

⁻ See next pages for actual measured spectrum plots.

Minimum Standard:

6 dB Bandwidth > 500kHz

Measurement Setup

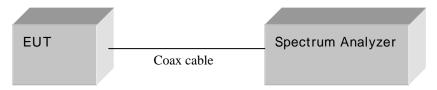
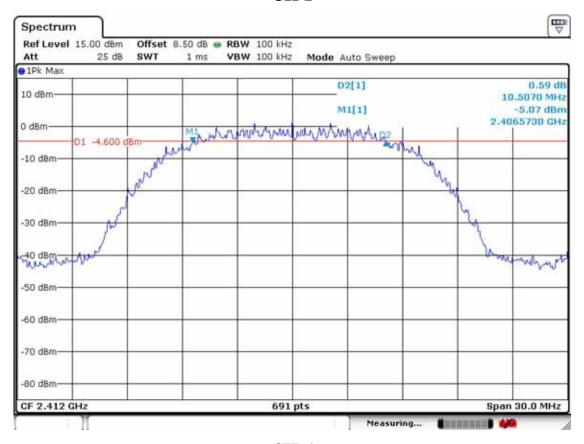
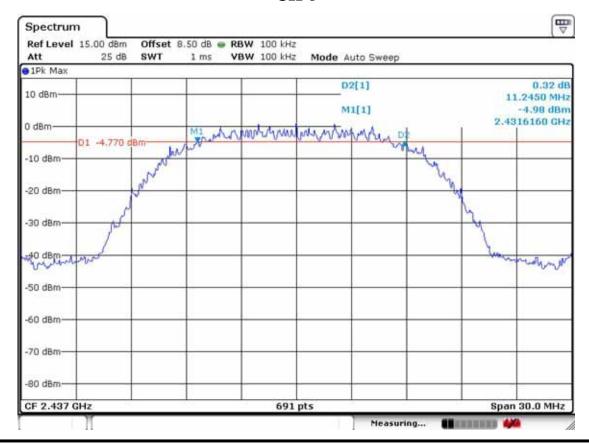
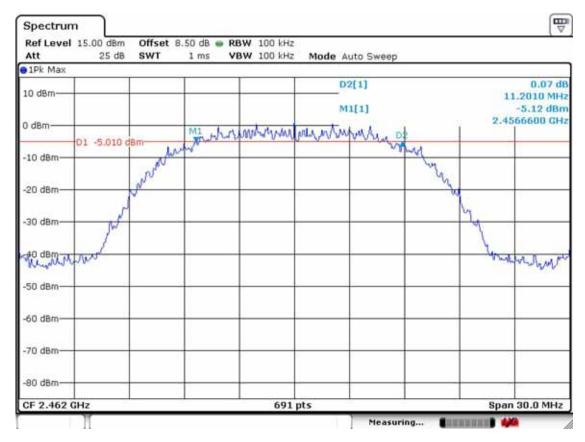


Figure 1: Measurement setup for the carrier frequency separation

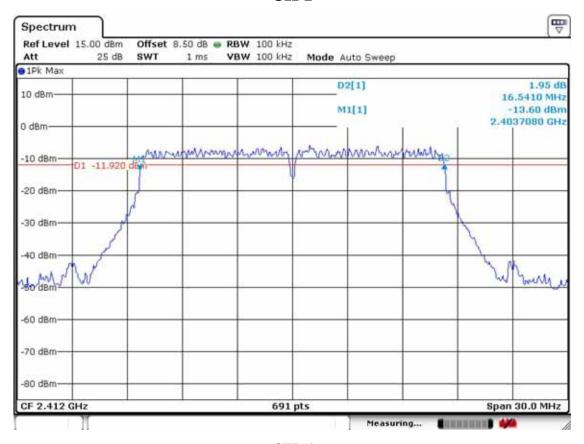
802.11b CH 1

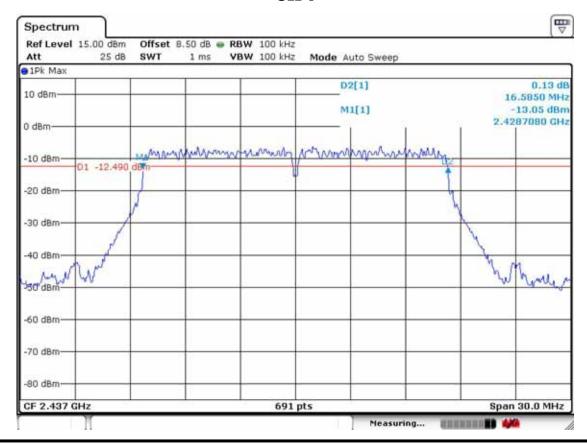


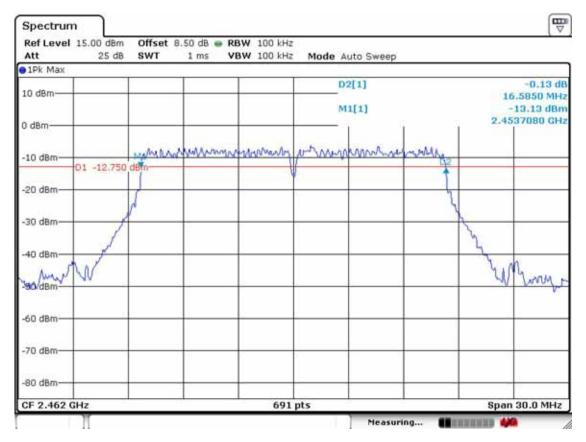




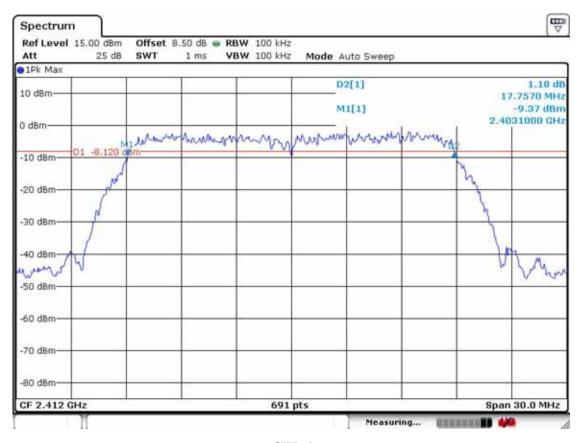
802.11g CH 1

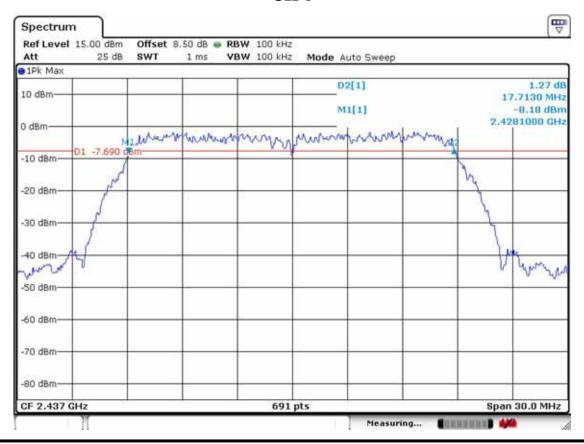


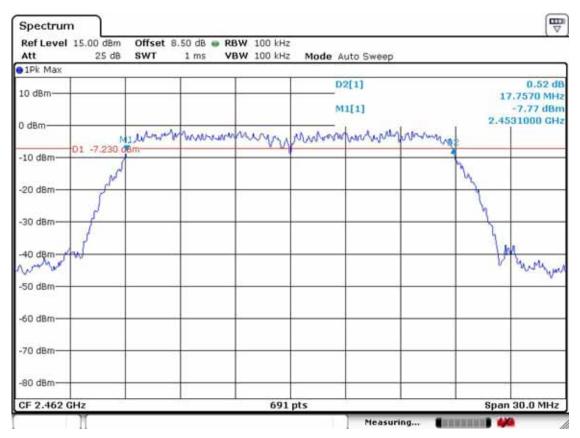




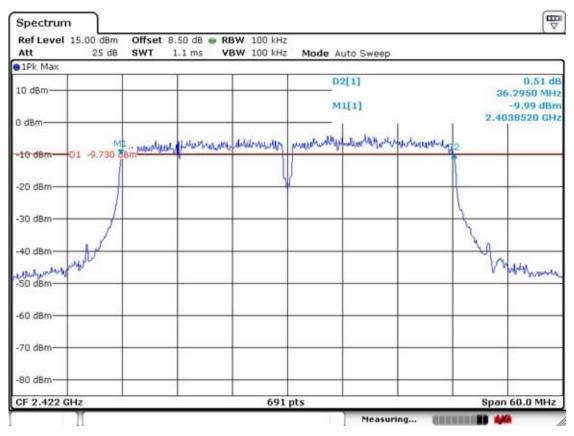
802.11n_20MHz CH 1

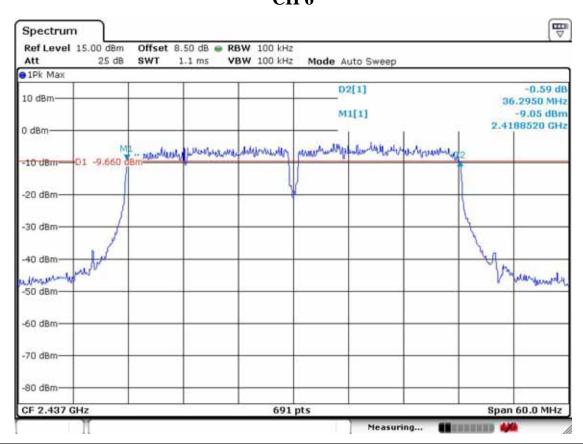


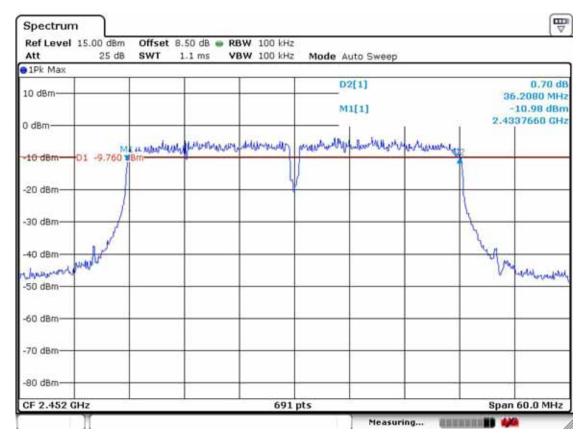




802.11n_40MHz CH 3







3.2.2 Peak Output Power Measurement

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1MHz Span = auto

VBW = 3MHz (VBW RBW) Sweep = auto

Detector function = peak

Measurement Data: 2.4GHz Band

34.1	Frequency	Channel Na	Test Res	ults
Mode	(MHz)	Channel No.	Measured Data (dBm)	Result
	2412	1	15.31	Complies
802.11b	2437	6	15.40	Complies
	2462	11	15.32	Complies
	2412	1	14.01	Complies
802.11g	2437	6	13.91	Complies
	2462	11	14.19	Complies
002.11	2412	1	17.95	Complies
802.11n	2437	6	18.83	Complies
_20MHz	2462	11	19.11	Complies
002.11	2422	3	17.59	Complies
802.11n	2437	6	18.09	Complies
_40MHz	2452	9	18.35	Complies

Minimum Standard:

Peak output power < 1W	
------------------------	--

Measurement Setup

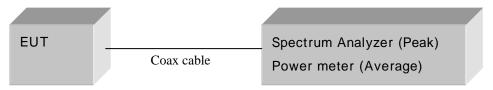
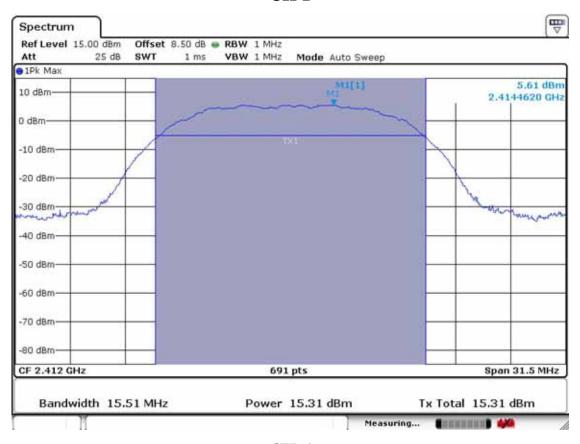
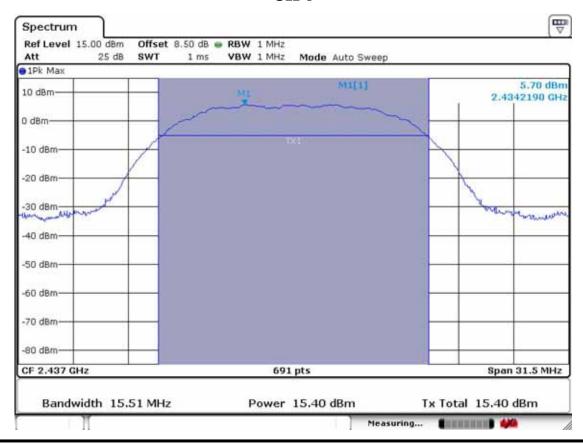


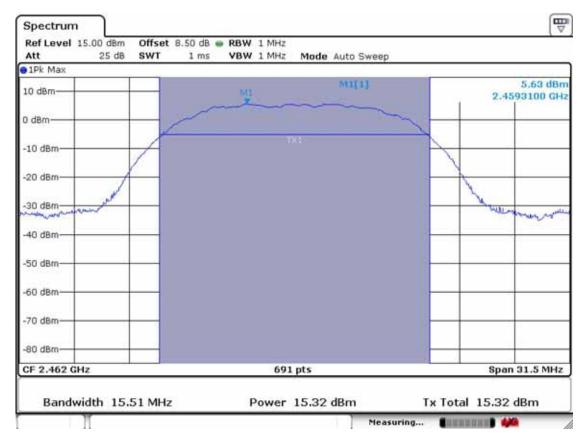
Figure 2: Measurement setup for the carrier frequency separation

802.11b CH 1

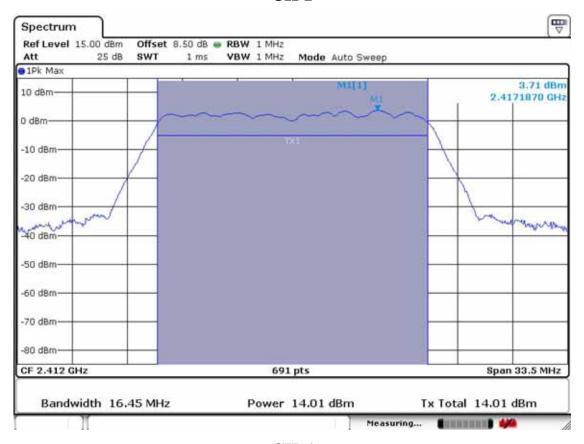


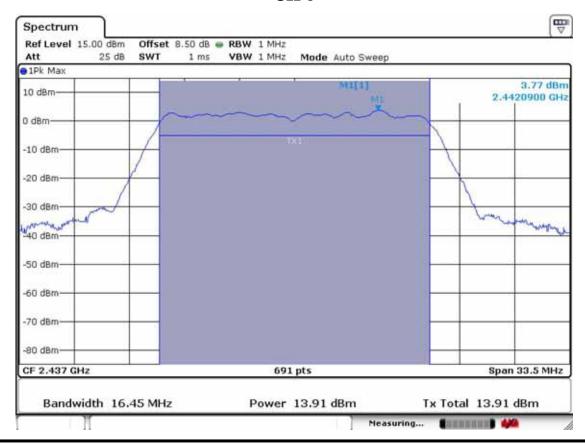
CH 6

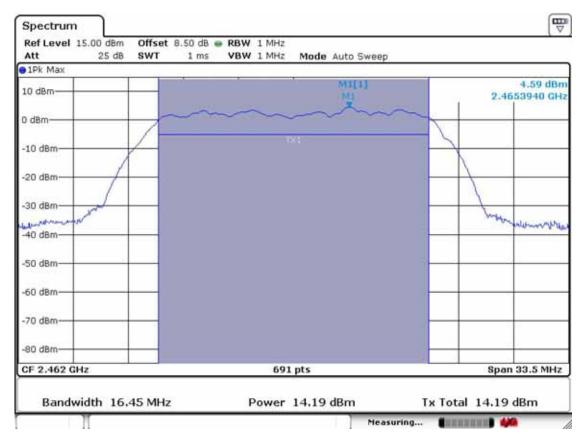




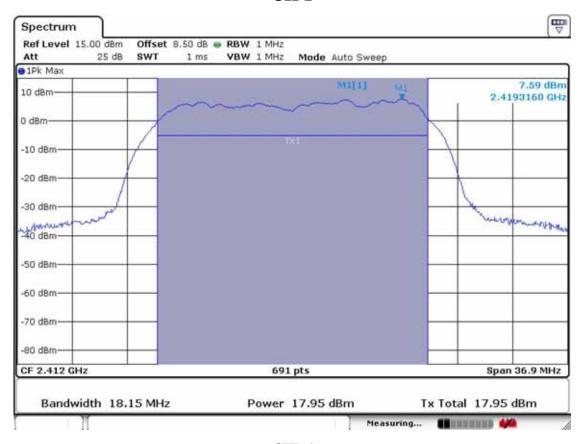
802.11g CH 1

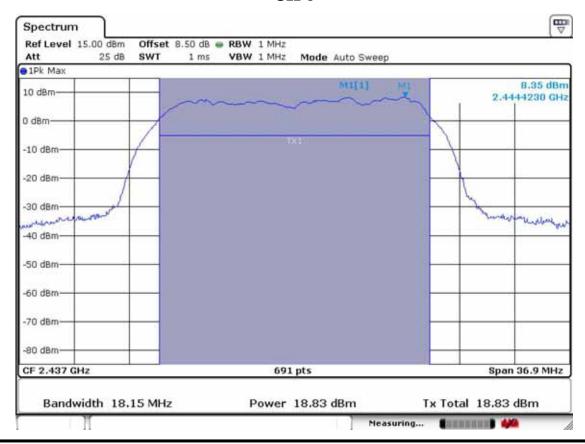


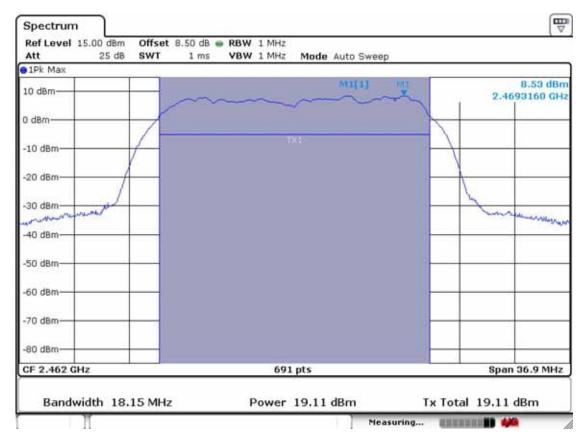




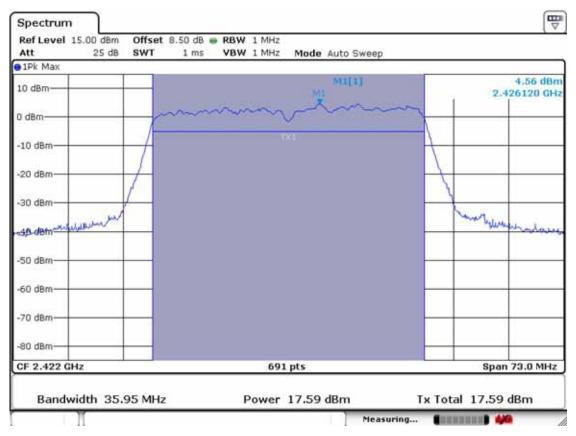
802.11n_20MHz CH 1

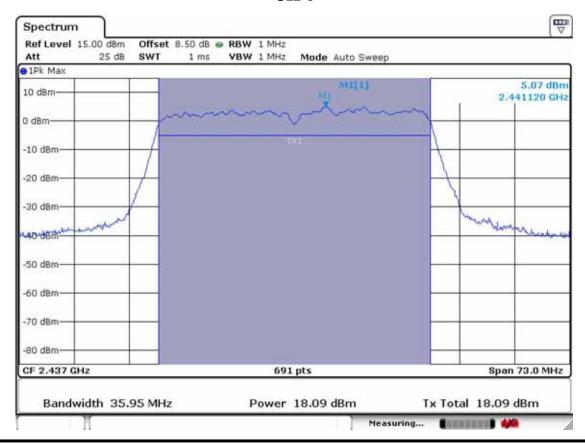


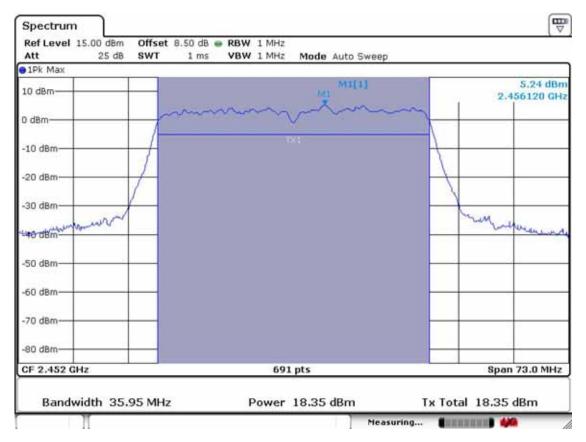




802.11n40MHz CH 3







3.2.3 Power Spectral Density

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The spectrum analyzer is set to:

RBW = 3 kHz Span = 300 kHz VBW = 3 kHz Sweep = 100 sec Sweep =

Measurement Data: 2.4GHz Band

Mode	Mode Frequency Channel No. Test Results		ults	
Mode	(MHz)	Chamiei No.	dBm	Result
	2412	1	-16.47	Complies
802.11b	2437	6	-16.45	Complies
	2462	11	-16.61	Complies
	2412	1	-21.84	Complies
802.11g	2437	6	-21.87	Complies
	2462	11	-21.87	Complies
802.11n	2412	1	-16.57	Complies
20MHz	2437	6	-15.83	Complies
_2011112	2462	11	-15.71	Complies
902 11	2422	3	-19.15	Complies
802.11n 40MHz	2437	6	-18.78	Complies
_401/1112	2452	9	-18.60	Complies

⁻ See next pages for actual measured spectrum plots.

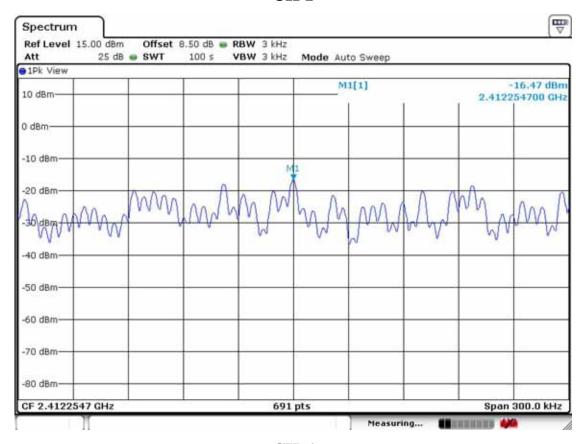
Minimum Standard:

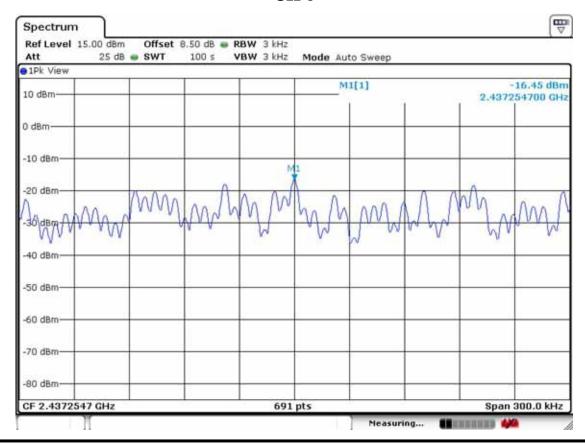
Power Spectral Density	< 8dBm @ 3kHz BW
------------------------	------------------

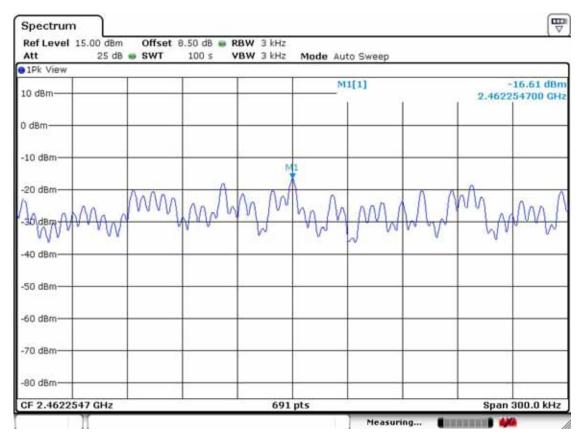
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

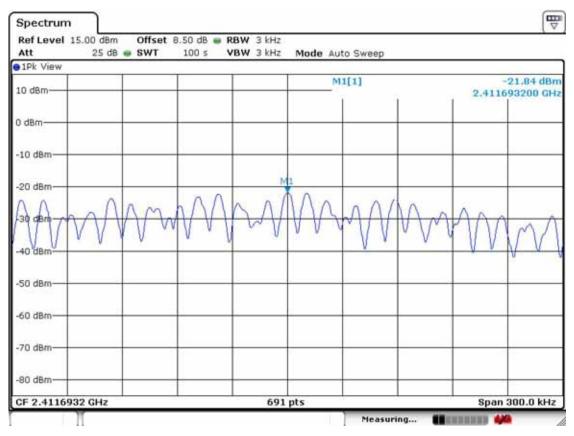
802.11b Power Density Measurement CH 1

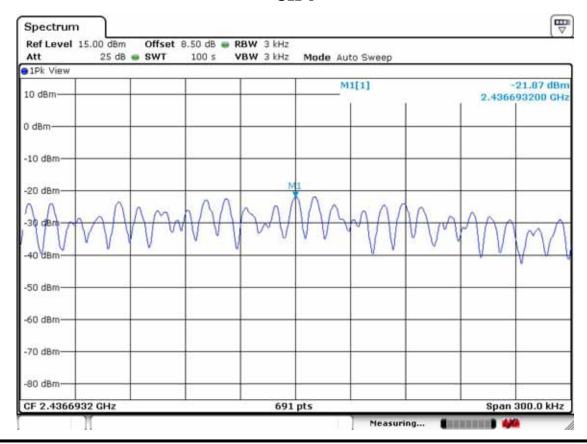


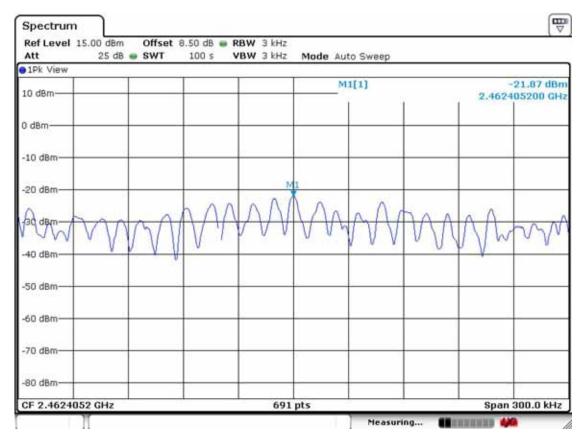




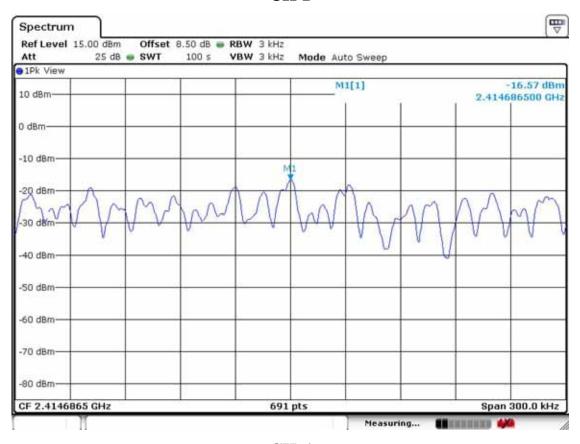
802.11g Power Density Measurement CH 1

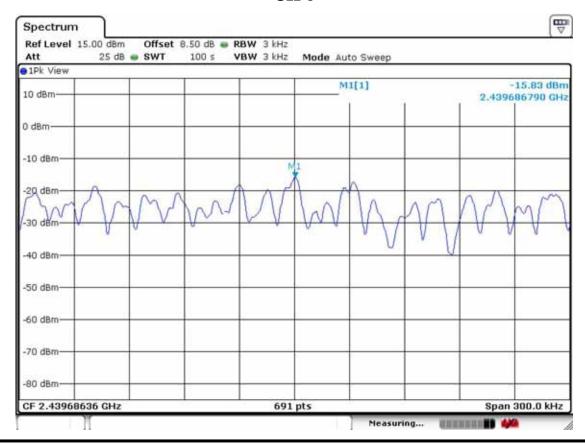


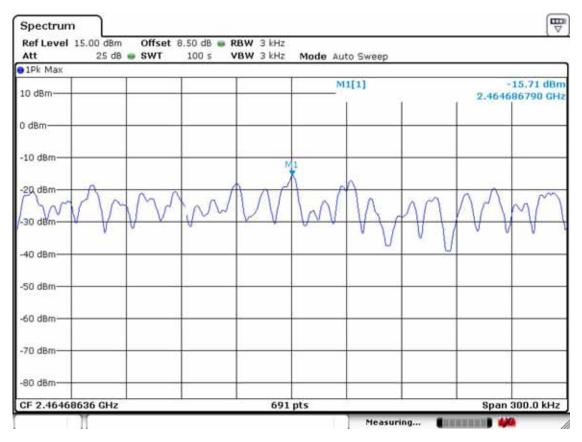




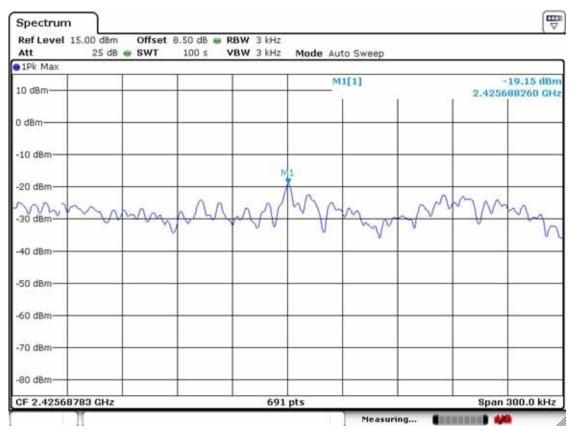
802.11n_20MHz Power Density Measurement CH 1

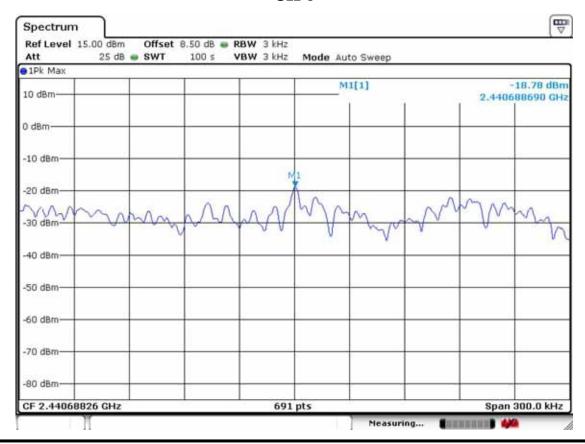


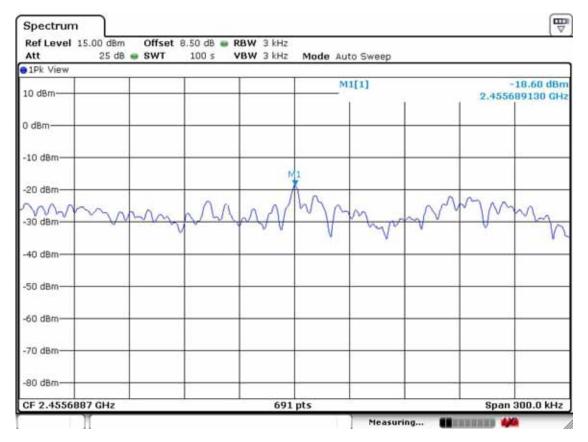




802.11n 40MHz Power Density Measurement CH 3







3.2.4 Band Edge

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz VBW = 100 kHz

Span = 40 MHz Detector function = peak

Trace = \max hold Sweep = auto

Measurement Data: Complies

- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.
- See next pages for actual measured spectrum plots.

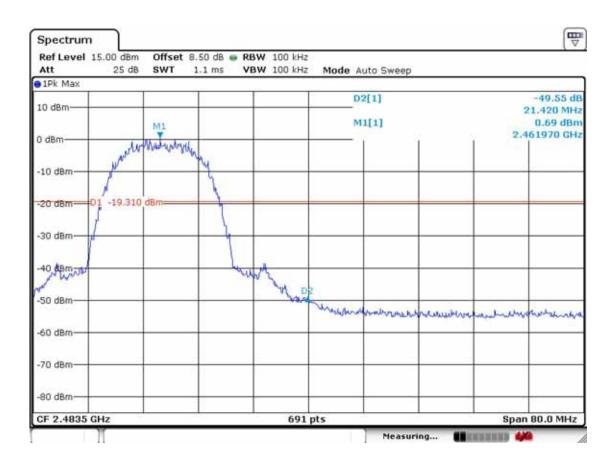
Minimum Standard:	> 20 dBc

Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

802.11b Band Edge: Conducted Measurements





Radiated Band edges in the restricted band 2310-2390 MHz measurement

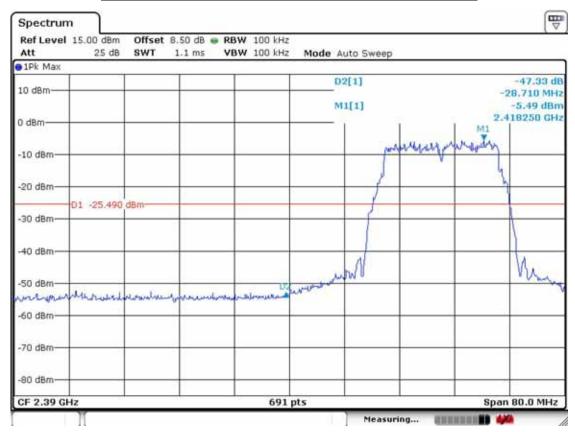
Frequency	Reading [dBuV/m]	Del	(Correction Factor	Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]
[MHz]	AV / Peak	Pol.	Antenna	Amp. Gain + Cable Loss	AV / Peak	AV / Peak	AV / Peak
2390.0	40.1 52.2	V	25.4	33.1	54.0 74.0	32.4 44.5	21.6 29.5

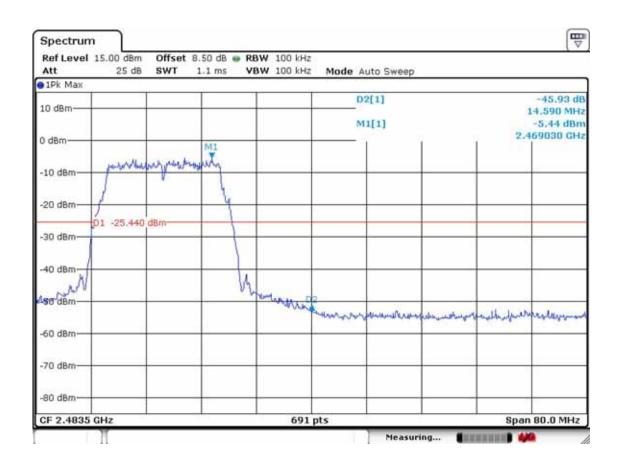
Radiated Band-edges in the restricted band 2483.5-2500 MHz measurement

Frequency	Reading [dBuV/m]		(Correction Factor	Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]	
[MHz]	AV / Peak	Pol.	Antenna	Amp. Gain + Cable Loss	AV / Peak	AV / Peak	AV / Peak	
2483.5	45.3 58.5	V	25.4	33.1	54.0 74.0	37.6 50.8	16.4 23.2	

Note: This EUT was tested in 3 orthogonal positions and the worst-case data was presented

802.11g Band Edge: Conducted Measurements





Radiated Band edges in the restricted band 2310-2390 MHz measurement

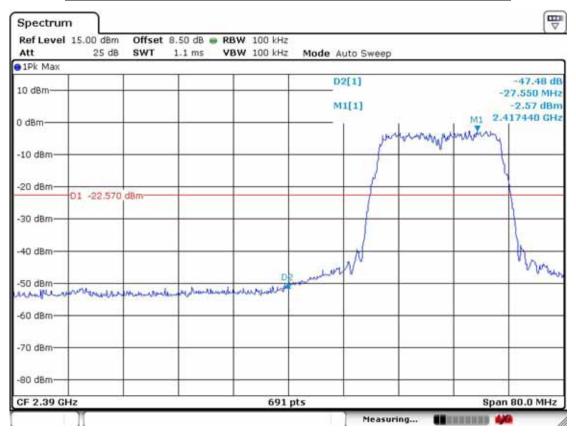
F		Rea	ding		(Correction	Lin	Limits Result		sult	Mar	gin
Fre	equency	[dBuV/m]		Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]	
[[MHz]	AV / Peak		POI.	Antenna	Amp. Gain + Cable Loss	AV /	' Peak	AV /	Peak	AV /	Peak
2	2389.4	41.1	55.0	V	25.4	33.1	54.0	74.0	33.4	47.3	20.6	26.7

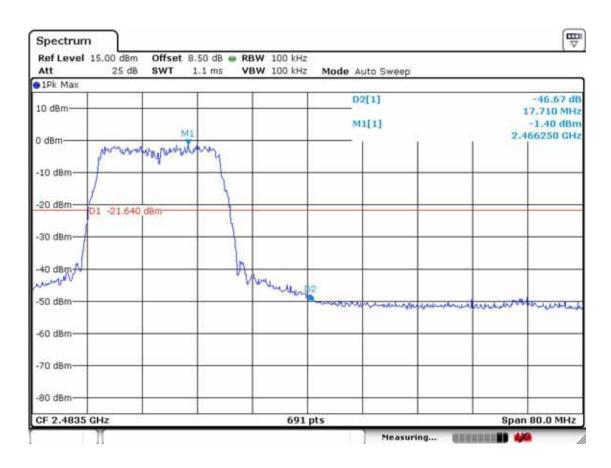
Radiated Band edges in the restricted band 2483.5-2500 MHz measurement

Frequency		Reading Correction [dBuV/m] Factor Pol. AN / Peak Antenna Amp. Gain		Limits [dBuV/m]		sult V/m]	Margin [dB]																						
[MHz]	AV /	' Peak	POI.	Antenna	Amp. Gain + Cable Loss	AV /	/ Peak	AV /	Peak	AV /	Peak																		
2484.0	46.8	58.6	V	25.4	33.1	54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		54.0 74.0		39.1	50.9	14.9	23.1

Note: This EUT was tested in 3 orthogonal positions and the worst-case data was presented

802.11n_20MHz Band Edge: Conducted Measurements





Radiated Band edges in the restricted band 2310-2390 MHz measurement

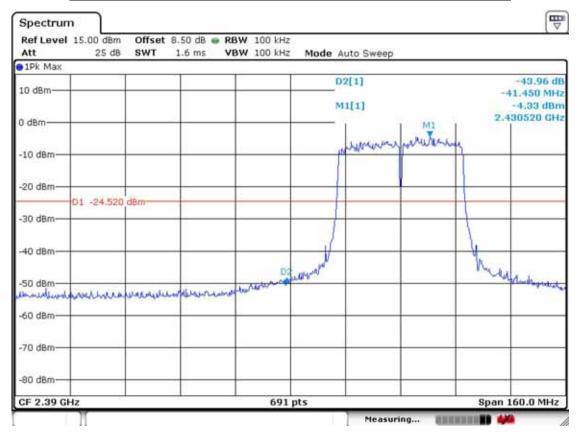
F	Reading [dBuV/m]			Ó	Correction	Limits		Res	sult	Margin	
Frequency			Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]	
[MHz]	AV / Peak		POI.	Antenna	Amp. Gain + Cable Loss	AV /	' Peak	AV /	Peak	AV /	Peak
2389.4	45.9	59.4	V	25.4	33.1	54.0	74.0	38.2	51.7	15.8	22.3

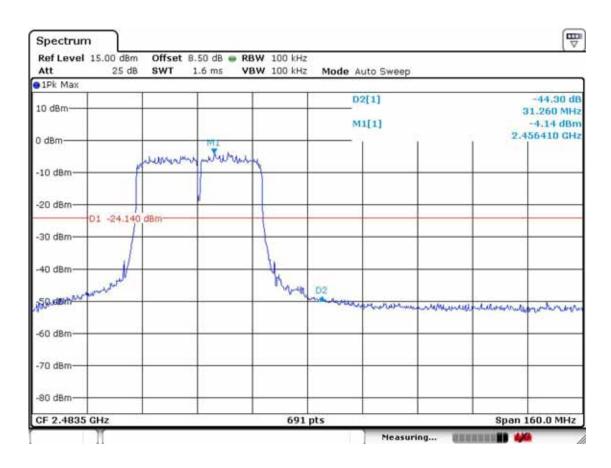
Radiated Band edges in the restricted band 2483.5-2500 MHz measurement

Frequency	Reading [dBuV/m]				Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]		
[MHz]	AV /	' Peak	POI.	Antenna	Amp. Gain + Cable Loss	AV /	' Peak	AV /	Peak	AV /	Peak
2484.0	45.4	57.8	Н	25.4	33.1	54.0	74.0	37.7	50.1	16.3	23.9

Note: This EUT was tested in 3 orthogonal positions and the worst-case data was presented

802.11n 40MHz Band Edge: Conducted Measurements





Radiated Band edges in the restricted band 2310-2390 MHz measurement

F	Reading [dBuV/m]			Ó	Correction	Lim	nits	Result		Margin	
Frequency			Pol.		Factor		[dBuV/m]		[dBuV/m]		В]
[MHz]	AV / Peak		POI.	Antenna	Amp. Gain + Cable Loss	AV /	' Peak	AV /	Peak	AV /	Peak
2389.9	38.5	50.8	V	25.4	33.1	54.0	74.0	30.8	43.1	23.2	30.9

Radiated Band edges in the restricted band 2483.5-2500 MHz measurement

Frequency	Reading [dBuV/m]				Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]		
[MHz]	AV /	' Peak	POI.	Antenna	Amp. Gain + Cable Loss	AV /	' Peak	AV /	Peak	AV /	Peak
2483.7	32.8	43.7	Н	25.4	33.1	54.0	74.0	25.1	36.0	28.9	38.0

Note: This EUT was tested in 3 orthogonal positions and the worst-case data was presented

3.3.5 Conducted Spurious Emissions

Procedure:

The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance. The conducted spurious emissions were measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, set the marker on the peak of any spurious emission recorded.

The spectrum analyzer is set to:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions

RBW = 100 kHz Sweep = auto

VBW = 100 kHz Detector function = peak

Trace = max hold

Measurement Data: Complies

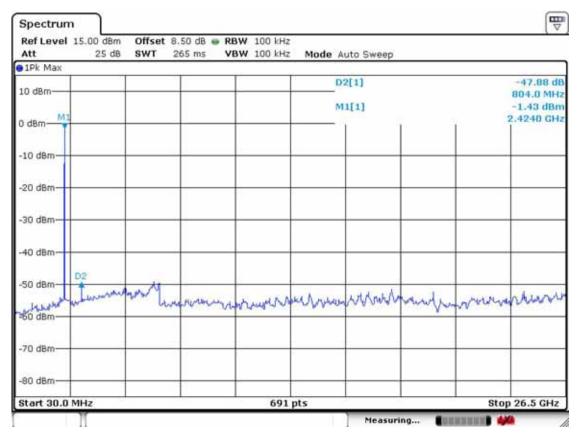
- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.
- See next pages for actual measured spectrum plots.

Minimum Standard:	> 20 dBc
-------------------	----------

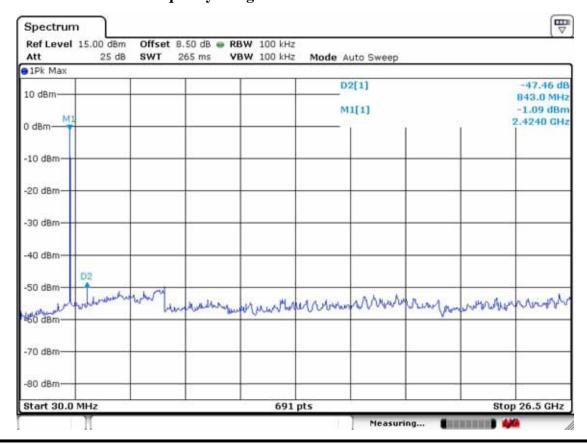
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

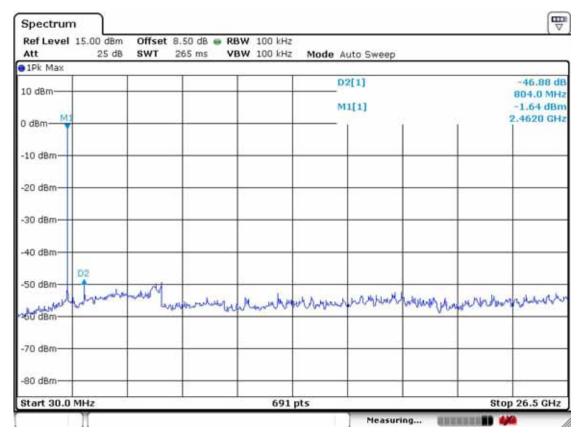
 $802.11b-channel\ 1$ Frequency Range = 30 MHz ~ 10^{th} harmonic.



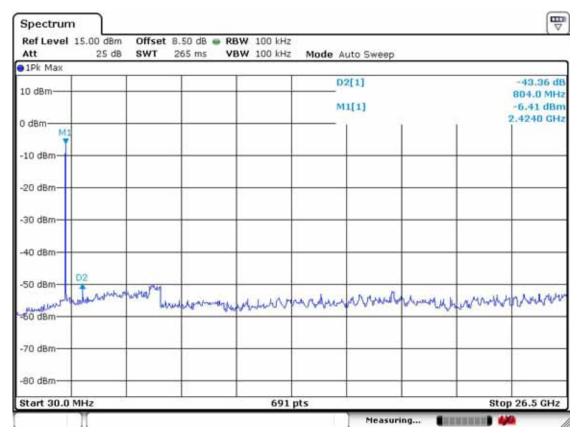
802.11b – channel 6 Frequency Range = $30 \text{ MHz} \sim 10^{th} \text{ harmonic.}$



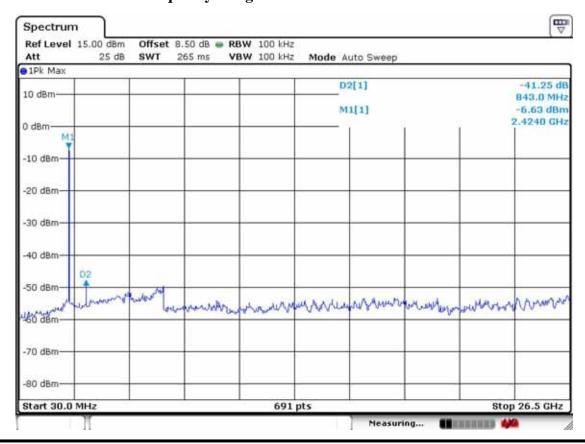
802.11b –channel 11 Frequency Range = $30 \text{ MHz} \sim 10^{th}$ harmonic.



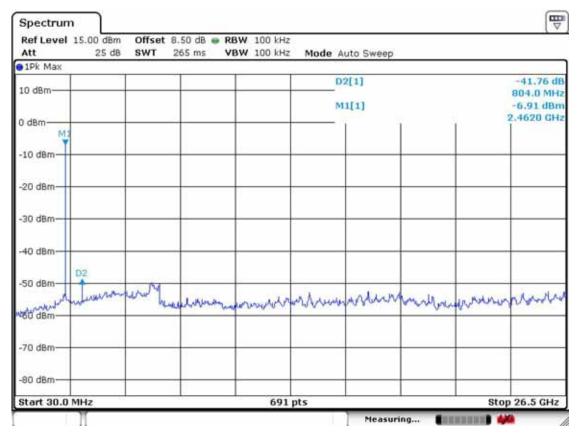
802.11g – channel 1 Frequency Range = 30 MHz ~ 10^{th} harmonic.



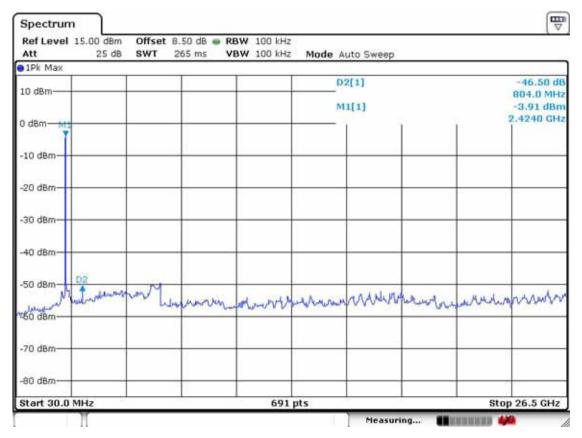
802.11g – channel 6 Frequency Range = 30 MHz ~ 10^{th} harmonic.



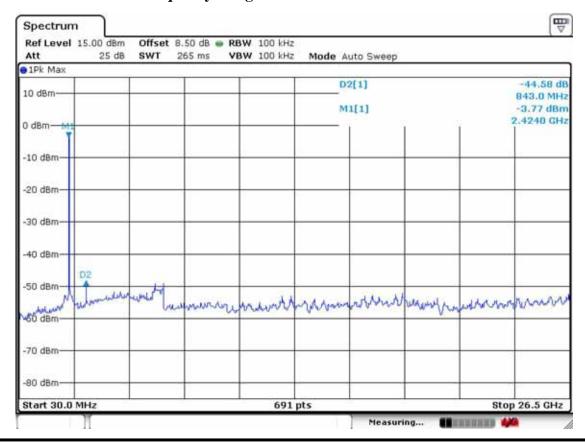
802.11g –channel 11 Frequency Range = 30 MHz ~ 10th harmonic.



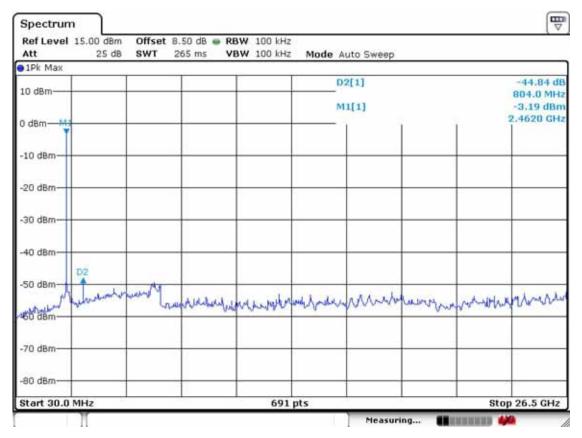
$802.11n_20MHz$ – channel 1 Frequency Range = $30~MHz \sim 10^{th}$ harmonic.



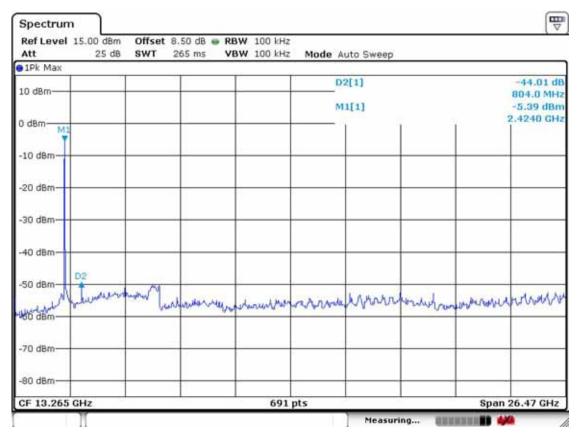
 $802.11n_20MHz$ – channel 6 Frequency Range = 30 MHz ~ 10^{th} harmonic.



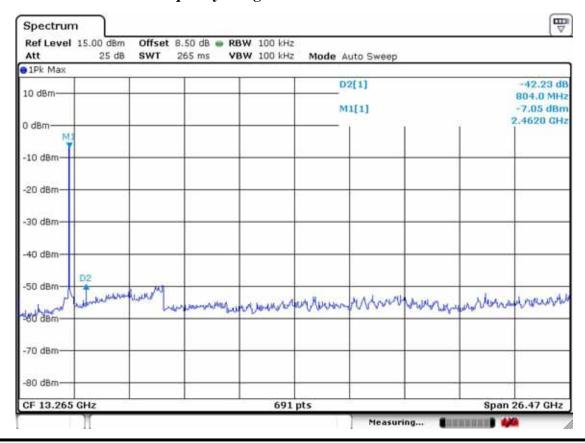
$802.11n_20MHz$ -channel 11 Frequency Range = $30 \text{ MHz} \sim 10^{th}$ harmonic.



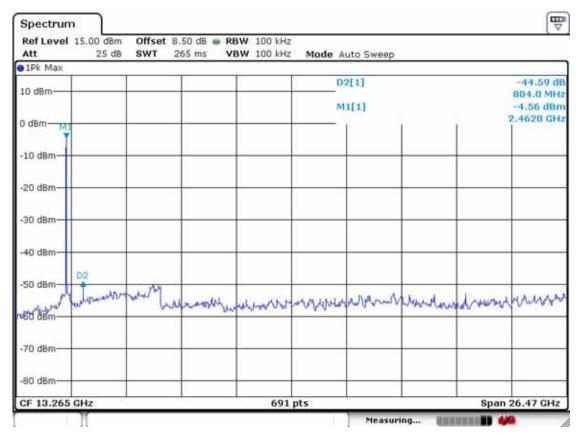
$802.11n_40MHz$ -channel 3 Frequency Range = $30~MHz \sim 10^{th}$ harmonic.



 $802.11n_40MHz$ -channel 6 Frequency Range = $30 MHz \sim 10^{th}$ harmonic.



802.11n_40MHz -channel 9 Frequency Range = 30 MHz ~ 10th harmonic.



3.2.6 Radiated Spurious Emissions

Procedure:

* The testing follows TCB Workshop 2012, April and fulfills ANSI C63.4-2003 and the guidelines in ANSI

C63.10-2009 test requirement. The EUT was placed on a 0.8m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

- (a) In the frequency range of 9kHz to 30 MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 3m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = $9 \text{ KHz} \sim 10^{\text{th}} \text{ harmonic.}$

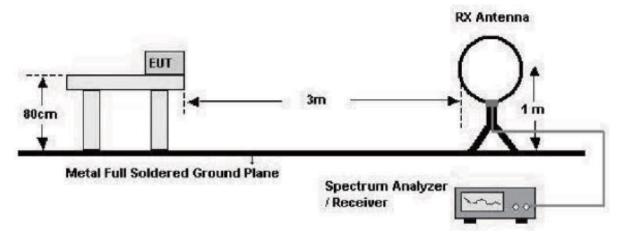
 $RBW = 120 \text{ kHz} (9 \text{ KHz} \sim 1 \text{ GHz})$ VBW RBW

= 1 MHz $(1 \text{ GHz} \sim 10^{\text{th}} \text{ harmonic})$

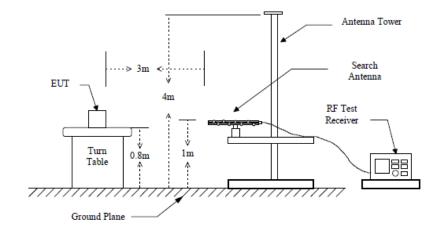
Span = 100 MHz Detector function = peak

Trace = \max hold Sweep = auto

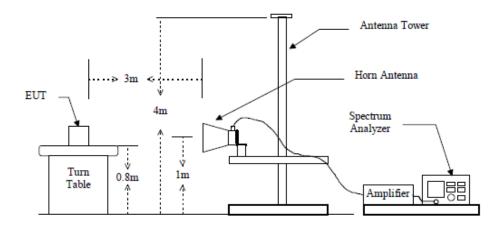
below 30MHz



below 1GHz (30MHz to 1GHz)



above 1GHz



Measurement Data: Complies

- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20dB below limit include from 9KHz to 30MHz.

Minimum Standard: FCC Part 15.209(a)

Frequency (MHz)	Limit (uV/m) @ 3m
0.009 ~ 0.490	2400/F(kHz) (@ 300m)
0.490 ~ 1.705	24000/F(kHz) (@ 30m)
1.705 ~ 30	30(@ 30m)
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

^{**} Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

802.11b Measurement Data: (Above 1GHz)

Frequency	Rea	ding		(Correction	Lim	nits	Res	sult	Mai	gin
rroquericy	[dBu	V/m]	Pol.		Factor	[dBu	V/m]	[dBu	V/m]	[d	В]
[MHz]	AV /	Peak		Antenna	Amp.Gain+Cable	AV /	Peak	AV /	Peak	AV /	Peak
4824.0	43.5	54.0	V	31.4	30.8	54.0	74.0	44.1	54.6	9.9	19.4
-	-	-	-	-	-	-	-	-	-	-	-
-	-	_	-	-	-	-	-	-	-	-	-
-	-	_	-	-	-	-	-	-	_	1	-
Frequency	Rea	Reading		Correction		Lim	nits	Res	sult	Mai	gin
rrequericy	[dBu	[dBuV/m]			Factor	[dBu	V/m]	[dBuV/m]		[dB]	
[MHz]	AV / Peak			Antenna	Amp.Gain+Cable	AV / Peak		AV / Peak		AV /	Peak
4883.0	38.7	51.5	٧	31.4	30.8	54.0	74.0	39.3	52.1	14.7	21.9
-	-	-	-	-	-	-	-	-	-	-	-
-	-	_	-	-	-	-	-	-	_	-	-
-	-	-	-	-	-	-	-	-	-	-	-
F	Rea	ding		Ó	Correction	Lin	nits	Res	sult	Mai	gin
Frequency	[dBu	V/m]	Pol.		Factor	[dBu	V/m]	[dBu	V/m]	[d	В]
[MHz]	AV / Peak			Antenna	Amp.Gain+Cable	AV /	' Peak	k AV / Peak		AV /	Peak
4924.0	40.3	53.4	V	31.4	30.8	40.9	74.0	40.9	54.0	13.1	20.0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	<u>-</u>	-	-	-	-	-	-	_	-	-
-	-	-	-	-	-	-	-	-	-	ı	-

⁻ No other emissions were detected at a level greater than 20dB below limit.

Frequency	requency [dBuV/m]		Pol.		Correction Factor	Limits [dBuV/m]		Result [dBuV/m]		Mar [d	
[MHz]	[MHz] AV / Peak			Antenna	Amp.Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
-	-	-	-	-				-	-	-	-
		No em	issions	were detec	ted at a level greater t	than 20d	dB below	limit.			
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

^{*}No emissions were detected at a level greater than 20dB below limit.

802.11g Measurement Data: (Above 1GHz)

Reading Frequency			(Correction	Limits		Result		Mai	gin					
rrequeries	[dBuV/m]		Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]					
[MHz]	AV / Peak			Antenna Amp.Gain+Cable		AV / Peak		AV / Peak		AV / Peak					
4824.0	37.8	50.6	V	31.4	30.8	54.0	74.0	38.4	51.2	15.6	22.8				
-	-	-	-	-	-		-	-	-	-	-				
-	-	-	-	-	-	-	-	-	_	-	-				
-	-	-	-	-			-	-	_	-	_				
	Read	ding		O	Correction	Lim	nits	Result		Margin					
Frequency	[dBuV/m]		Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]					
[MHz]	лнz] AV / Peak			Antenna Amp.Gain+Cable		AV / Peak		k AV / Peak		AV / Peak					
-	-	_	_	-	-	-	-	-	_	-	-				
-	-	-	-	-	-	-	-	-	_	-	-				
-	-	-	-	-	-	-	-	-	-	-	-				
-	-	-	-	-	-	-	-	-	_	-	-				
F	Reading			Correction		Limits		Result		Mar	gin				
Frequency	[dBu	V/m]	Pol.		Factor	[dBuV/m]		[dBuV/m]		[d	В]				
[MHz]	AV /	' Peak		Antenna	nna Amp.Gain+Cable		tenna Amp.Gain+Cable		Antenna Amp.Gain+Cable		' Peak	AV /	Peak	AV /	Peak
-	-	-	-	-	-	-	-	-	-	-	-				
-	-	-	-	-	-	-	-	-	_	-	-				
-	-	-	-	-	-	-	-	-	-	-	-				
-	-	-	-	-		-		-		-	-				

⁻ No other emissions were detected at a level greater than 20dB below limit.

Frequency	Reading	Reading		Correction		Result	Margin					
, , , , , , , , , , , , , , , , , , , ,	[dBuV/m]	Pol.	Factor		[dBuV/m]	[dBuV/m]	[dB]					
[MHz]	AV / Peak		Antenna	Amp.Gain+Cable	AV / Peak	AV / Peak	AV / Peak					
-		-	-	-								
	No emissions were detected at a level greater than 20dB below limit.											
-		-	-	-								
-		-	-	-								

^{*}No emissions were detected at a level greater than 20dB below limit.

802.11n_20MHz Measurement Data: (Above 1GHz)

-					Correction	Lim	nits	Res	sult	Mar	gin
Frequency			Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]	
[MHz]	AV / Peak			Antenna	Amp.Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-		-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-			-	-	-	-	-
Francis	Rea	ding		Correction		Limits		Result		Margin	
Frequency	Frequency [dBuV/m]		Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]	
[MHz]	AV / Peak			Antenna Amp.Gain+Cable		AV / Peak		AV / Peak		AV /	Peak
-	-	_	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	ı	-	-	-
Fraguanay	Rea	ding		•	Correction	Lin	nits	Result		Mar	gin
Frequency	[dBu	V/m]	Pol.		Factor	[dBu	V/m]	[dBu	V/m]	[d	в]
[MHz]	AV /	' Peak		Antenna	Amp.Gain+Cable	AV /	' Peak	AV /	' Peak	AV /	Peak
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	_	-	-	-	-	-	-	-	-
-	-	-	-			-	-	-	-	-	-
-	-	-	-	-		-	-	-	-	-	-

⁻ No other emissions were detected at a level greater than 20dB below limit.

Frequency	Reading	Reading		Correction		Result	Margin					
, , , , , , , , , , , , , , , , , , , ,	[dBuV/m]	Pol.	Factor		[dBuV/m]	[dBuV/m]	[dB]					
[MHz]	AV / Peak		Antenna	Amp.Gain+Cable	AV / Peak	AV / Peak	AV / Peak					
-		-	-	-								
	No emissions were detected at a level greater than 20dB below limit.											
-		-	-	-								
-		-	-	-								

^{*}No emissions were detected at a level greater than 20dB below limit.

802.11n_40MHz Measurement Data: (Above 1GHz)

Framusansı	Rea	ding		Correction		Limits		Result		Mar	gin
Frequency	[dBuV/m]		Pol.	Factor		[dBuV/m]		[dBuV/m]		[dB]	
[MHz]	AV / Peak			Antenna Amp.Gain+Cable		AV / Peak		AV / Peak		AV / Peak	
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	_	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Framusmau	Rea	ding		Correction		Limits		Result		Margin	
Frequency	Frequency [dBuV/m]		Pol.		[dBuV/m]		[dBuV/m]		[dB]		
[MHz]	AV /	' Peak		Antenna Amp.Gain+Cable		AV / Peak		AV / Peak		AV / Peak	
-	-	-	_	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Frequency	Rea	ding		(Correction	Limits		Res	sult	Mar	gin
rrequericy	[dBu	V/m]	Pol.		Factor	[dBuV	//m]	[dBu	V/m]	[d	в]
[MHz]	AV /	Peak		Antenna	Amp.Gain+Cable	AV /	Peak	AV /	' Peak	AV /	Peak
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-			-	-	-	-	-	-

⁻ No other emissions were detected at a level greater than 20dB below limit.

F	Reading		Correction		Limits	Result	Margin				
Frequency	[dBuV/m]	Pol.		Factor	[dBuV/m]	[dBuV/m]	[dB]				
[MHz]	AV / Peak		Antenna	Antenna Amp.Gain+Cable AV / Peak AV / Pe		AV / Peak	AV / Peak				
-		-	-	-							
No emissions were detected at a level greater than 20dB below limit.											
-		-	-	-			-				
-		-	-	-							

^{*}No emissions were detected at a level greater than 20dB below limit.

Radiated Emissions – Wi-Fi 2.4 GHz mode



941.85

35.17

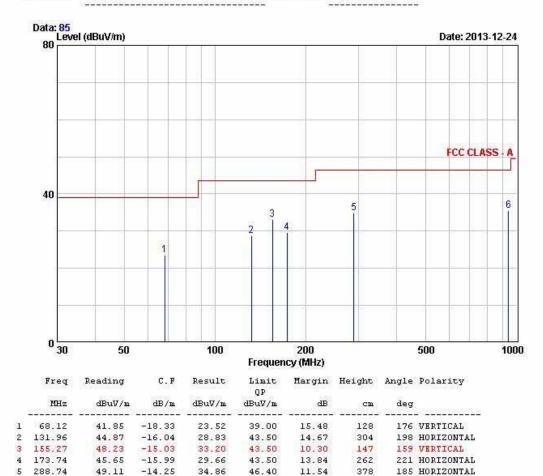
0.27

243 Jubug-ni, yangji-Myeon, Youngin-si, Gyeonggi-do 449-822 Korea Tel:+82-31-3236008,9 Fax:+82-31-3236010

312 HORIZONTAL

EUT/Model No.: N9000 TEST MODE: WIFI + BT mode

Temp Humi : 20 / 51 Tested by: Y00 B C



Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

46.40

10.96

400

35.44

3.2.7 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: Complies

- Refer to the next page.
- No other emissions were detected at a level greater than 20dB below limit
- It gave the worse case emissions

Minimum Standard: FCC Part 15.207(a)/EN 55022

Frequency Range	Conducted Limit (dBuV)				
(MHz)	Quasi-Peak	Average			
0.15 ~ 0.5	66 to 56 *	56 to 46 *			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

^{*} Decreases with the logarithm of the frequency

Radiated Emissions - Wi-Fi 2.4 GHz mode - LINE

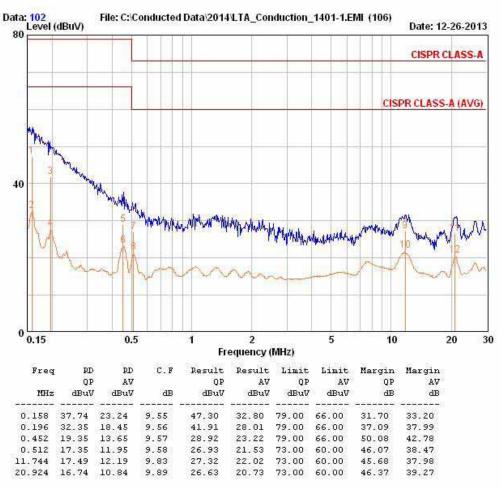


243 Jubug-ri, yangji-Myeon, Youngin-si, Gyeonggi-do 449-822 Korea Tel:+82-31-3236008,9 Fax:+82-31-3236010

EUT / Model No.: N9000 Phase : LINE

Test Mode : WI-FI + BT mode Test Power : 120 / 60

Temp./Humi. : 21 / 50 Test Engineer : Y00 B C



Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

Radiated Emissions – Wi-Fi 2.4 GHz mode - NEUTRAL

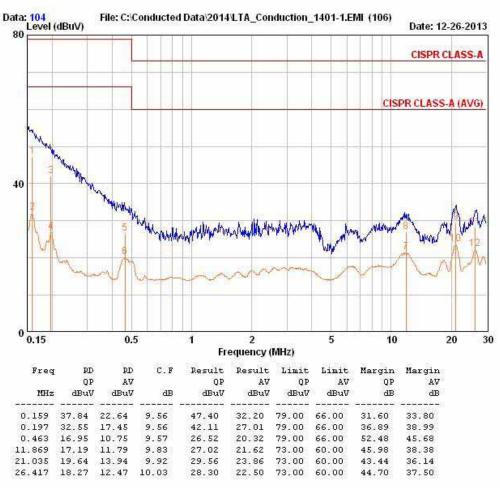


243 Jubug-ri, yangji-Myeon, Youngin-si, Gyeonggi-do 449-822 Korea Tel:+82-31-3236008,9 Fax:+82-31-3236010

EUT / Model No.: N9000 Phase : NEUTRAL

Test Mode : WI-FI + BT mode Test Power : 120 / 60

Temp./Humi. : 21 / 50 Test Engineer : Y00 B C



Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

APPENDIX

TEST EQUIPMENT USED FOR TESTS

	Description	Model No.	Serial No.	Manufacturer	Interval	Last Cal. Date
1	Signal Analyzer (9kHz~30GHz)	FSV-30	100757	R&S	1 year	2014-01-16
2	Spectrum Analyzer (9kHz~2.9GHz)	8594E	3649A03649	НР	2 year	2012-03-26
3	Signal Generator (~3.2GHz)	8648C	3623A02597	НР	1 year	2013-03-25
4	SYNTHESIZED CW GENERATOR	83711B	US34490456	НР	1 year	2013-03-25
5	Attenuator (3dB)	8491A	37822	НР	2 year	2012-09-22
6	Attenuator (10dB)	8491A	63196	НР	2 year	2012-09-22
7	Test Receiver (~30MHz)	ESHS10	828404/009	R&S	1 year	2013-03-25
8	EMI Test Receiver (~7GHz)	ESCI7	100722	R&S	1 year	2013-09-16
9	RF Amplifier (~1.3GHz)	8447D OPT 010	2944A07684	НР	1 year	2013-09-16
10	RF Amplifier (1~26.5GHz)	8449B	3008A02126	НР	1 year	2013-03-25
11	Horn Antenna (1~18GHz)	3115	00114105	ETS	2 year	2013-05-13
12	Horn Antenna (18GHz~26.5GHz)	SAS-572	269	A.H. SYSTEM	2 year	2013-09-06
13	TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2013-05-03
14	Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2013-03-14
15	Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
16	Power Divider	11636A	06243	НР	2 year	2012-09-22
17	DC Power Supply	6674A	3637A01657	Agilent	-	-
18	Frequency Counter	5342A	2826A12411	НР	1 year	2013-03-25
19	Power Meter	EPM-441A	GB32481702	НР	1 year	2013-03-25
20	Power Sensor	8481A	US41030291	НР	1 year	2014-01-17
21	Audio Analyzer	8903B	3729A18901	НР	1 year	2013-09-16
22	Modulation Analyzer	8901B	3749A05878	НР	1 year	2013-09-16
23	TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2013-09-16
24	Stop Watch	HS-3	601Q09R	CASIO	1 year	2013-03-15
25	LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2013-09-16
26	Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2013-04-25
27	UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2013-07-25
28	Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	-	-
29	Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	-	-
30	Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	1 year	2014-01-07