Operational Description

This device is a Wireless N Home Router, Wireless N Access Point, which operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps which OFDM technique will be applied. If the signal to noise rate is too poor which could not support 300Mbps, the 11Mbps data rate with DSSS technique will be applied.

1. The EUT has two product names and three model names which are identical to each other in all aspects except for the following:

Product name	Model No.	Description
Wireless N Home Router	NBG-419N	1. NBG-419N and WAP3205 only I/O port and appearance are difference.
Wireless N Access Point	WAP3205	2. WAP3205 and NWA-570N V2 are same to each other, only for marketing requirement.
Wireless N Access Point	NWA-570N V2	3. NBG-419N I/O Port: LAN*4; WAN*1 WAP3205 I/O Port: LAN*2 NWA-570N V2 I/O Port: LAN*2

From the above models, model: **NBG-419N** and **WAP3205** were selected as representative models for the test and their data were recorded in the report.

2. There are two antennas provided to this EUT, please refer to the following table:

Transmitter Circuit	Antenna Type	Gain (dBi)	Antenna Connector
Chain(0)	Dipole	2	SMA Plug Reverse
Chain(1)	Dipole	2	SMA Plug Reverse

3. The EUT must be supplied with a switching adapter as following:

Brand:	DVE
Model No.:	DSA-12G-12 FUS 120120
Input power :	AC100-240V, 50/60Hz 0.3A
Output power :	DC 12V, 1A DC output cable (Unshielded, 1.5m)

4. The EUT was pre-tested in chamber under the following modes:

Test Mode	Description
Mode A	Level-set (Put on tabletop)
Mode B	Tower-set (Wall-mounted)

From the above modes, the worse case was found in **Mode A**. Therefore only the test data of the mode was recorded in this report.

5. The EUT incorporates a MIMO function with draft 802.11n. Physically, the card provides two completed transmit and two completed receivers.

6. The EUT is 2 * 2 spatial MIMO without beam forming function. The antenna configurations are two transmitter antennas and two receiver antennas, as there are 2 dipole antennas. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas.

7. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.

8. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.

9. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.