

1.1. Test Result of RF Exposure Evaluation

- . Product: 5GHz Wireless-N HD Access Point/Bridge
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

- ANT-L1: Printed Antenna, Gain is 3.143dBi.
- ANT-L2: Printed Antenna, Gain is 2.378dBi
- ANT-L3: Printed Antenna, Gain is 4.321dBi
- ANT-R1: Printed Antenna, Gain is 2.922dBi
- ANT-R2: Printed Antenna, Gain is 3.769dBi
- ANT-R3: Printed Antenna, Gain is -0.0363dBi

1.1.2. EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

1.1.3. Output Power into Antenna & RF Exposure Evaluation Distance

Test Mode 1

Modulation Standard: IEEE802.11a, Transmit Rate: 6Mbps, ANT-L1

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.86	0.020
44	5220	16.90	0.020
48	5240	16.81	0.020

Test Mode 2:

Modulation Standard: IEEE 802.11a Transmit Rate: 6Mbps, ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.68	0.026
44	5220	16.89	0.026
48	5240	16.68	0.025

Test Mode 3:

Modulation Standard: IEEE 802.11a, Transmit Rate: 6Mbps, ANT-R1

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.87	0.019
44	5220	16.93	0.019
48	5240	16.82	0.019

Test Mode 4:

Modulation Standard: IEEE 802.11a(6Mbps), ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.90	0.010
44	5220	16.82	0.009
48	5240	16.83	0.010

Test Mode 5:

Modulation Standard: IEEE 802.11Draft n, Transmit Rate: 130Mbps, ANT-L1+ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.99	0.027
44	5220	16.81	0.026
48	5240	16.98	0.027

Test Mode 6:

Modulation Standard: IEEE 802.11a, Transmit Rate: 130Mbps, ANT-L1+ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.85	0.020
44	5220	16.98	0.020
48	5240	16.94	0.020

Test Mode 7:

Modulation Standard: IEEE 802.11a, Transmit Rate: 130Mbps, ANT-R1+ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.91	0.019
44	5220	16.93	0.019
48	5240	16.74	0.018

Test Mode 8:

Modulation Standard: IEEE 802.11a, Transmit Rate: 130Mbps, ANT-R1+ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.84	0.019
44	5220	16.73	0.018
48	5240	16.90	0.019

Test Mode 9:

Modulation Standard: IEEE 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, ANT-L1+ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.70	0.025
44	5220	16.64	0.025
48	5240	16.75	0.025

Test Mode 10:

Modulation Standard: IEEE 802.11a, Transmit Rate: 270Mbps, ANT-L1+ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.91	0.020
44	5220	16.97	0.020
48	5240	16.72	0.019

Test Mode 11:

Modulation Standard: IEEE 802.11a, Transmit Rate: 270Mbps, ANT-R1+ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.77	0.026
44	5220	16.81	0.026
48	5240	16.85	0.026

Test Mode 12:

Modulation Standard: IEEE 802.11a, Transmit Rate: 270Mbps, ANT-R1+ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60%

Channel	Channel Frequency (MHz)	Peak Power Output of Total (dBm)	Power Density (S) (mW/cm ²)
36	5180	16.82	0.019
44	5220	16.93	0.019
48	5240	16.96	0.019

The MPE is calculated as $0.027 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

For 5180-5240 MHz, the EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.