

RF Exposure Report

Project Number: 4195027

Report Number: 4195027EMC05

Revision Level: 0

Client: Stanley Black and Decker

Equipment Under Test: Outdoor Access Point

Model: DCT100

FCC ID: YJ7DCT100

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: Stanley Black and Decker
Address: 701 E. Joppa Road
City, State, Zip, Country: Towson, MD 21286, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Outdoor Access Point
Model Number: DCT100
Serial Number: DCT100-46361 (Conducted Measurements)
DCT100-46384 (Radiated Measurements)

Frequency Ranges: 2400-2483.5MHz, 5150-5250MHz, 5725-5850MHz
Data Modes (2.4GHz): 802.11b, 802.11g, 802.11n (HT20/HT40)
Data Modes (5GHz): 802.11a, 802.11n (HT20/HT40)
Antenna: Internal, 2x2 MIMO (2.4GHz)
Internal, 2x2 MIMO (5GHz)

Rated Voltage: 100-240Vac, 50/60Hz
Test Voltage: 120Vac, 60Hz

Sample Received Date: 04 and 10 October 2017
Dates of testing: 04 - 24 October 2017

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured conducted power was considered.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum measured conducted power and provided directional antenna gains, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density $EIRP_{avg}/(4\pi R^2)$ mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
WLAN 2.4	2400-2483.5	20.3	4.0	0.0	24.3	269	20	0.054	1.00	5%	Pass
WLAN 5 GHz (UNII-1)	5150-5250	21.1	6.0	0.0	27.1	513	20	0.102	1.00	10%	Pass
WLAN 5.8 GHz (UNII-3)	5725-5850	22.5	6.0	0.0	28.5	708	20	0.141	1.00	14%	Pass

Note: Antenna gain is directional gain provided by applicant.

2.4 Simultaneous transmission RF Exposure Levels

	WLAN 2.4	WLAN 5 GHz (UNII-1)	WLAN 5.8 GHz (UNII-3)
WLAN 2.4		16%	19%
WLAN 5 GHz (UNII-1)	16%		
WLAN 5.8 GHz (UNII-3)	19%		

Note: Highlighted color simply aids in identifying the highest level (Percentage of the limit).