



Washington Laboratories, Ltd.

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Test Letter #: 19263-01 REV 2

Applicant: Stanley Black & Decker, Inc.

Exempt RF Host: DeWalt Hammer Drill, Model: DCH614 and DCH832

Embedded Module 1, FCC ID: YJ7-NA080801

Embedded Module 2, FCC ID: YJ7-DCE045

Embedded Module 3, FCC ID: YJ7WTCTX

Host Summary:

The above-named modular transmitters are co-located, as the three modules are embedded in the host EUT device, Model: DCH614 and DCH832 (Dewalt Hammer Drills). The EUT is categorically excluded from SAR testing.

Exclusion Threshold for FCC:

Limit is based on FCC Rule Part § 1.1310(c), where the SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1-gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10-grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time-period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Transmitter SAR Estimation Formula

Reference: KDB 447498 DO1 General RF Exposure Guidance v06, Section 4.3.2(b), Host platform SAR levels, from simultaneous transmitting antennas, are calculated from:

- 1) $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{GHz}}} / x] \text{ W/kg}$, for *test separation distances* $\leq 50 \text{ mm}$;
where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.
- 2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is $> 50 \text{ mm}$.³⁷



where,

- a) $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- b) power and distance shall be rounded to the nearest mW and mm before calculation.
- c) when the minimum test separation distance is < 5mm, a distance of 5mm is used
- d) the result for each antenna is the single SAR value in W/kg

EUT Transmitter and Host Platform:

The Stanley Black & Decker, Inc., DCH614 and DCH832 drills can contain up to three pre-certified modules. These radio modules can transmit simultaneously. The table below provides a summary of the embedded modules and the total SAR value for the host device. The final transmitter SAR value reported herein is the estimated SAR.

DCH614 & DCH832 Hammer Drill	NA080801	DCE045	WTC
Peak Output Power, Conducted:	1.11 dBm	3.98 dBm	0.42 dBm
Tune-up Tolerance:	±1.2 dB	±1.0 dB	±0.55 dB
Total Channel Power:	2.31 dBm (1.70 mW)	4.98 dBm (3.15 mW)	0.97 dBm (1.25 mW)
Separation Distance	5 mm	5 mm	5 mm
Single Peak SAR Estimated Value:	0.084 W/kg	0.126 W/kg	0.042 W/kg
Final Host Platform SAR Estimation		$.084 + .126 + .042 = 0.252 \text{ W/kg}$	



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Final Data:

0.252 W/kg is the peak SAR value for the Host EUT.

1.6 W/kg is the average 1-gram SAR limit.

Because 0.252 W/kg is less than 1.6 W/kg, the EUT is categorically excluded from SAR testing.

Please note the following:

For FCC IDs YJ7-NA080801 and YJ7-DCE045: the transmitter data reported refers to the modules' original filing exhibits.

For FCC ID: YJ7WTCTX: the transmitter data reported refers to the module's RF chipset. The maximum conducted output power is 0.42 dBm based on the use of a $1\text{k}\Omega$ resistor for R7 (please see the Micrel datasheet for MICRF112, Page 13, Table 3).

The Washington Laboratories, Ltd. testing facility is located at 4840 Winchester Boulevard, Suite 5., Frederick, Maryland 21703. Washington Laboratories has been accepted by the FCC and approved by the ANSI-ASQ National Accreditation Board (ANAB) under Certificate AT-1448, as an independent test laboratory. Washington Laboratories and the testing performed in support of this document are accredited and meet the requirements of ISO/IEC 17025.

Thank you for choosing Washington Laboratories.

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