Date: September 28, 2015

Federal Communications Commission

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Attn: OET Dept.

Ref: Original application, FCC ID: QDS-BRCM1090
          Applicant: Broadcom Corporation

Dear Examiner,

We, Broadcom Corporation, hereby declare the following for the model BCM94371ZAE, FCC ID: QDS-BRCM1090.

a) A list of all rule sections and bands in which the device will operate:

   (i) 15.247 (DTS)

   ▢   *2.412-2.467 GHz – SUPPORTED*

   (ii) Part 90Y public safety

   ▢   *4.94 – 4.99 GHz – NOT SUPPORTED*

   (iii) 15.407 (U-NII)

   ▢   *5.15-5.25 GHz - SUPPORTED*
   ▢   *5.25-5.35 GHz - SUPPORTED*
   ▢   *5.47-5.725 GHz - SUPPORTED*
   ▢   *5.725-5.850 GHz - SUPPORTED*

b) List of 802.11ac features supported and whether channel 165 is supported:

   (i) 80 MHz channel width – SUPPORTED

   (ii) 80 + 80 MHz channel mode - NOT SUPPORTED

   (iii) 160 MHz channel width- NOT SUPPORTED

   (iv) Operation on channels that straddle 5.725 GHz (shown in red in Figure 1) – SUPPORTED. The channels are channel 144 (HT20), 142 (HT40) and 138 (HT80).

   (v) Operation on the channel that straddles 5.825 GHz (channel 165 in Figure 1) – SUPPORTED. The channel straddling the 5.825 MHz band is channel 165 (802.11a and HT20)
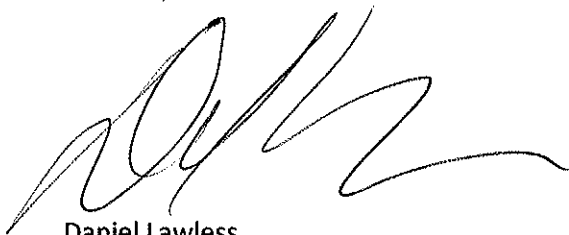
(vi) 256-QAM modulation - SUPPORTED

c) Method of complying with emission limits for operations above 5.725 GHz:

All channels straddling 5.725 GHz have been evaluated against the UNII rules with power evaluated based on the proportion of the channel falling inside each band in accordance with KDB 644545 D03. All other channels that fall entirely within the 5725-5850 MHz frequency band have been evaluated against 15.407. The device will not operate simultaneously on channels that straddle 5725 MHz and channels that fall inside the 5725-5850MHz band.

If you have any questions regarding this application, please feel free to contact me.

Sincerely,

Daniel Lawless

Director of Engineering, Systems Operations

Broadcom Corporation

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