DFS Troubleshooting

- Country code
  - Must use the correct FCC or EU based country codes for test as the algorithms and feature mask are different
    - FCC Feature mask = 0xa800 {FCC algorithm see “wl radarargs(40)}
    - EU Feature mask = 0xb000 {EU algorithm see “wl radarargs(40)}
- Radarthrs
  - Thresh0/Thresh1 tuned as per Radarthrs tuning document rev 4.0
  - Thresh0 12dB more sensitive than thresh1
  - Threshold tuned on center frequency
  - wl radarthrs low band HT20, low band HT40 low band HT80, high band HT20, high band HT40 band HT80
  - LNA’s oversensitive needs to be tuned down.
- Driver version
  - Latest drivers include fixes for falsing and detection.
  - In 11ac driver “wl radarargs40” command is replaced with “wl radarargs” which applies to all BW modes.
- Shielding
- Traffic (See following page).

Traffic Loading for DFS testing

- FCC loading (both 5250-5350MHZ and 5470-5725MHz bands):

  20MHz: FCC MPEG file @54Mbps (wl nrate -r 54 -s 0)

  40MHz: FCC MPEG file @ MCS2 (wl nrate -m 2 -s 1)

  80MHz: FCC MPEG file 5g_rate -v 0x1 -b 80

- Japan loading:

  W53

  20MHz: Japan Compressed MPEG file @54Mbps (wl nrate -r 54 -s 0)

  {Note: We have previously provided both ADT and Sporton with this compressed version of the FCC "6.5 Magic Hours" MPEG file}.

  40MHz: Japan Compressed MPEG file @ MCS2 (wl nrate -m 2 -s 1)

  80MHz: Japan Compressed MPEG file @ 5g_rate -v 0x1 -b 80

  W56

  20MHz: FCC MPEG file @54Mbps (wl nrate -r 54 -s 0)

  40MHz: FCC MPEG file @ MCS2 (wl nrate -m 2 -s 1)

  80MHz: FCC MPEG file 5g_rate -v 0x1 -b 80

  EU loading (both 5250-5350MHz and 5470-5725MHz bands):

  20MHz: Japan Compressed MPEG file @MCS5 (wl nrate –m 5 -s 1)

  {Note: We have previously provided both ADT and Sporton with this compressed version of the FCC "6.5 Magic Hours" MPEG file}

  40MHz: Japan Compressed MPEG file @ MCS2 (wl nrate -m 2 -s 1)

  80MHz: Japan Compressed MPEG file @ 5g_rate -v 2x1 -b 80