

## 5.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – RF EXPOSURE EVALUATION

### 5.2.1 Applicable Standard

According to RSS-102 § (2.5.2):

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

#### Calculated Data:

| Mode      | Frequency (MHz) | Antenna Gain | Conducted output power including Tune-up Tolerance | EIRP  |       | Exemption limits (mW) |
|-----------|-----------------|--------------|----------------------------------------------------|-------|-------|-----------------------|
|           |                 | (dBi)        | (dBm)                                              | (dBm) | (mW)  |                       |
| WLAN 2.4G | 2412-2462       | -2.93        | 22                                                 | 19.07 | 80.72 | 2684                  |
| BLE       | 2402-2480       | -2.93        | 8                                                  | 5.07  | 3.21  | 2676                  |

**Note:** The WLAN and BLE can't transmit simultaneously.

So the device is compliance exemption from Routine Evaluation Limits –RF exposure Evaluation.

**Result:** Compliance

===== END OF REPORT =====