

## **Standalone SAR test exclusion considerations(Bluetooth)**

March 15, 2018

```
- Max. transmitting frequency = 2441 MHz
- Max. test separation distance = 30 mm

Max. power with turn-up tolerance = 17.50 dBm

Maximum antenna peak gain: 0.52 dBi
```

Maximum output power for the calculation: 17.50 dBm

Note. The mimum sapartion distance between antenna and user is 30mm.

EIRP

Exact antenna dimensions and separation distances are sown in the "Attestation letter" in the IC filing.

Please refer to the operation descriptoin for Max.tune-up power.

SAR test exclusion EIRP for 2450MHz at separationn distances of 30 mm: 83 mW

```
= 17.50 dBm + 0.52 dBi

= 18.02 dBm = 63.387 mW ≤ 83 mW (Exemption Limits(mW))

* Note : P = Power input to the antenna(dBm)

G = Power gain of the antenna(dBi)
```

Thus SAR for this device is not required.

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## **Standalone SAR test exclusion considerations(BLE)**

dBm

March 15, 2018

```
- Max. transmitting frequency = 2480 MHz
- Max. test separation distance = 30 mm

Max. power with turn-up tolerance = 3.00 dBm

Maximum antenna peak gain: 0.52 dBi
```

Maximum output power for the calculation: 3.00

Note. The mimum sapartion distance between antenna and user is 30mm.

**EIRP** 

=

P + G

Exact antenna dimensions and separation distances are sown in the "Attestation letter" in the IC filing.

Please refer to the operation descriptoin for Max.tune-up power.

SAR test exclusion EIRP for 2450MHz at separationn distances of 30 mm: 83 mW

G = Power gain of the antenna(dBi)

```
= 3.00 dBm + 0.52 dBi

= 3.52 dBm = 2.25 mW ≤ 83 mW (Exemption Limits(mW))

* Note: P = Power input to the antenna(dBm)
```

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