

RF Exposure

The 1 mW conducted exclusion at 24064 MHz for portable devices was taken from the FCC's presentation at the TCB Council Workshop on Nov 13, 2019, Titled "5G NR FR1 NSA EN-DC UE SAR Evaluations", Page/slide 11, second bullet point.

Fundamental:

Level Measurement: 13.363 dBmV/m + 46.01 dB corrections = 59.373 dBmV/m at 1 meter

Corrections:

Cable	0.50 dB
Antenna	45.51 dB

EIRP = 14.60 dBm peak.

Duty cycle correction = 5.26 dB

EIRP (AV) = 3.97

Conducted power = EIRP – antenna gain.

Antenna gain = 10.55

Power (conducted) = 3.97 – 5.26 = -1.29 dBm = 0.74 mW

Result = Exempt

Note: the duty-cycle is source-based, i.e. it is factory set and cannot be adjusted by an installer or user.

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Portable Device MPE Test Excl.

- Test exclusion justification information for devices not needing other RF exposure testing and reporting have been submitted per KDB Pub. 447498 D01 v06
- Test exclusion based on 1 mW may be used now with the portable device $f > 6$ GHz FCC MPE power density limits
 - Maximum time-averaged conducted power, irrespective of distance from body
 - Analysis exhibit considered for categorically excluded [Sec. 2.1093(c); no PAG] and routine evaluation devices (e.g. Sec. 15.255; KDB inquiry or PAG)
 - Evaluation distance emulating normal use conditions