

RF Exposure Assessment

Applicant: Microsoft Corp.

Product Description: Wireless Headset

FCC ID: C3K1481

RF exposure category: Portable device based upon section 2.1093 definition

Assessment:

Based upon KDB 447498, for portable excluded from RF routine evaluation, when the output power is below the power threshold of $60 / f$ (GHz), then SAR evaluation is not required. f (GHz) is middle channel in GHz.

Frequency range:

FHSS: 2402 – 2482 MHz; Bluetooth: 2402- 2480 MHz

Output power:

FHSS: 1.94 mW; Bluetooth: 4.236 mW

Co-located condition:

FHSS and Bluetooth radio cannot transmit simultaneously.

Power Threshold for SAR exclusion:

$60 / 2.42 = 24.79$ mW

Conclusion: RF conducted output power of FHSS and Bluetooth radios are below the low power threshold thus SAR evaluation is not required.