Apparatus: NUCLEO-WL55JC1
RF Exposure Considerations for FCC ID: YCP-MB1389001

The calculation of the MPE is as following:

Prediction of MPE limit at a prediction distance:

$$S=\frac{P.G}{4.\prod.R^2}=\frac{E.I.R.P}{4.\prod.R^2}$$

S: Power density (mW/cm²)
P: Peak output power at antenna terminal (mW)
G: Numerical Antenna gain (GidB = 2.0dBi)
R: Distance of radiation to antenna (cm)

MPE
F = 902.5 / 925.0MHz
E.I.R.P = 199.5mW (21dBm + 2.0dBi)
Power value is taken from conducted power including tolerance (19.9±1.1dB)
R= 20cm
S=0.04mW/cm²
MPE limit for uncontrolled exposure: 0.6mW/cm² → Below MPE limit
Note: RF output power is taken as rated power including tune-up tolerances.

Conclusion: Therefore the device complies with FCC's RF radiation exposure limits for general population for a mobile device.

Certified By
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