

Exhibit H: RF Exposure

FCC ID: QYT-4120

Compliance with 47 CFR 15.247(b)(5)

“Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.”

The EUT will only be used with a separation distance of 20 centimeters or greater between the antenna and the body of the user or nearby persons and can therefore be considered a mobile transmitter per 47 CFR 2.1091 (b). The EUT can only transmit from one antenna port at a time. There is no provision for simultaneous transmission from multiple antenna ports. The EUT requires professional installation.

The maximum peak power is 2.43 W (ERP). The transmit frequency is greater than 1.5 GHz, therefore the EUT is categorically excluded from routine environmental evaluation per 47 CFR 2.1091(c).

The MPE estimates are as follows:

Table 1 in 47 CFR 1.1310 defines the maximum permissible exposure (MPE) for the general population as 1mW/cm^2 . The exposure level at a 20 cm distance from the EUT's transmitting antenna is calculated using the general equation:

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm^2)

P = power input to the antenna (mW)

G = numeric power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

PG = EIRP

Solving for S, the maximum power densities 20 cm from the transmitting antennas are summarized in the following table:

MPE Estimate

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| Antenna Type | Manufacturer | Antenna Part No. | Transmit Frequency (MHz) | Max Peak Conducted Output Power (mW) | Antenna Gain (dBi) | Minimum Antenna Cable Loss (dB) | Power Density @ 20 cm (mW/cm^2) | General Population Exposure Limit from 1.1310 (mW/cm^2) |
|-------------------------------|--------------|------------------|--------------------------|--------------------------------------|--------------------|---------------------------------|--|--|
| Patch (linear polarization) | Arc Wireless | M2.45SPT | 2400 | 631 | 8 | 0 | 0.792 | 1 |
| Patch (circular polarization) | MaCom | ANP-C-116 | 2400 | 631 | 4 | 0 | 0.315 | 1 |

The applicant's radio, FCC ID: QYT-4120, is compliant with the requirements of 15.247(b)(5).