

Applicant: Zenner USA

Test Report S/N: 45461897-R1.0

FCC ID: 2ACOA-MS3

Project: 1641

EXHIBIT 7 -FCC RF EXPOSURE (MPE) REPORT

Prediction of MPE Limit 47 CFR § 2.1091/ § 2.1093

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2}$$

$$S_C = \frac{P_A G_N}{4\pi R_C^2}$$

$$R_{\rm C} = \sqrt{\frac{P_{\rm A}G_{\rm N}}{4\pi S_{\rm L}}}$$

$$S_L = \frac{f}{1500} (mW/cm^2)$$

 S_{20} = Power Density of the Device at 20cm

S_I = Power Density Limit

 S_c = Power Density of the Device at the Compliance Distance R_C

 $R_{20} = 20 cm$

R_c = Minimum Distance to the Radiating Element to Meet Compliance

 P_T = Power Input to Antenna

 P_A = Adjust Power

 G_N = Numeric Gain of the Antenna

f = Transmit Frequency

Transmit Duty Cycle = 100%

Use Group = General Popuation

Transmit Duty Cycle:	100.00	(%)
Tx Frequency (f):	902.00	(MHz)
RF Power at Antenna Input Port (P_T):	500.00	(mW)
Antenna Gain:	0.00	(dBi)
Numeric Antenna Gain (G _N):	1.00	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power (PA):	500.00	(mW)

S _L =	0.602	(mW/cm ²)
S ₂₀ at 20cm =	0.099	(mW/cm ²)
$R_c =$	8.1	(cm)
s _c =	0.60	(mW/cm ²)

RESULT F

PASS

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