Prediction of MPE Limit 47 CFR § 2.1091

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

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

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

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

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

S_L = 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

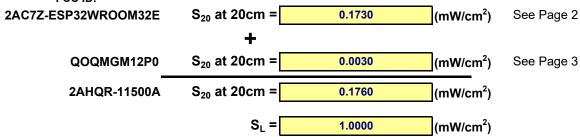
 G_N = Numeric Gain of the Antenna

f = Transmit Frequency

Transmit Duty Cycle = 100%

Use Group = General Popuation

FCC ID:



Power Density of Host = Sum of all simultaneous Power Densities Power Density Limit = Lowest Limit Based on Frequency

FCC ID: 2AHQR-11500A RESULT: PASS

Prediction of MPE Limit 47 CFR § 2.1091

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

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

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

$$S_L = \frac{1}{(mW/cm^2)}$$

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

 S_L = 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

		— 1
Transmit Duty Cycle:	100.00	(%)
Tx Frequency (f):	2412.00	(MHz)
RF Power at Antenna Input Port (P _T):	398.00	(mW)
Antenna Gain:	3.40	(dBi)
Numeric Antenna Gain (G _N):	2.19	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power (P _A):	398.00	(mW)
		
S _L =	1.000	(mW/cm ²)
S ₂₀ at 20cm =	0.173	(mW/cm ²)
R _c =	8.3	(cm)
S _c =	1.00	(mW/cm ²)

Prediction of MPE Limit 47 CFR § 2.1091

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

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

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

$$S_L = \frac{1}{\text{(mW/cm}^2)}$$

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

 S_L = 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 Cycles	100.00	(0/)
Transmit Duty Cycle:	100.00	(%)
Tx Frequency (f):	2402.00	(MHz)
RF Power at Antenna Input Port (P _T):	9.14	(mW)
Antenna Gain:	2.14	(dBi)
Numeric Antenna Gain (G _N):	1.64	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power (P _A):	9.14	(mW)
_		
S _L =	1.000	(mW/cm ²)
S ₂₀ at 20cm =	0.003	(mW/cm ²)
R _c =	1.1	(cm)
S _c =	1.00	(mW/cm ²)

FCC ID: QOQMGM12P0	RESULT:	PASS
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