MPE CALCULATION

FCC ID: QTA-AF120, FCC ID: 2ABCB-RPI3BP

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band: 2.4GHz	2412-2462 MHz,
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm^2

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

EUT: SensArray®Automation FOUP, Model No.: AF120

Type	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm^2)	MPE Limit (mW/cm^2)	Pass/Fail
2.4G WLAN	16.025	1.9	±1dB	17.025	20	0.016	1	Pass
Raspberry Pi 2.4G WLAN	14.77	3.5	±1dB	15.77	20	0.017	1	Pass

Total: 0.016+0.017 =0.033<1

The Above Result had shown that the device complied with MPE requirement at a prediction distance of 20cm.

Completed By: Cipher Chu

SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

Date: 08/07/2019