

FCC MPE Evaluation (FCC ID: TV7RBD52-5ACD2ND)

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:	2402-2480MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 - 1500 MHz,
Power Density Limit:	f/1500 mW/cm ²
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

Prediction distance 20 cm

EUT: hAP ac²

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm ²)	MPE Limit (mW/ cm ²)
WLAN 11b/g	2412-2462	24.01	2.5	20	0.09	1
WLAN 11a/n/ac	5150-5250	21.06	2.5	20	0.05	1
WLAN 11a/n/ac	5350-5720	21.44	2.5	20	0.05	1
WLAN 11a/n/ac	5725-2825	20.36	2.5	20	0.04	1

The above results show that the device complies with the MPE requirement.

Completed By: Bruce Li

Vista Laboratories, Inc.

1261 Puerta Del Sol, San Clemente, CA 92673

Date: Oct 1st, 2019

ISED RF Exposure Evaluation (ISED ID: 7442A-D52AC)

RF Exposure Requirements:

RSS-102 Issue 5: March 2015

RF Radiation Exposure Limits:

RSS-102 Issue 5: March 2015

RF Radiation Exposure Guidelines:

RSS-102 Issue 5: March 2015

EUT Frequency Band:

2402-2480MHz

Limits for General Population/Uncontrolled Exposure in the band of:

300 - 6,000 MHz

Exemption limit for Routine Evaluation:

$1.31 \times 10^{-2} f_{0.6834}^2 \text{ W}$

EUT: hAP ac²

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Max E.I.R.P (dBm)	Max E.I.R.P (W)	Evaluation Exemption limit (W)
BLE (250Kbps)	2402-2480MHz	5.012	2.1	7.112	0.005	2.736
BLE (2Mbps)	2402-2480MHz	5.005	2.1	7.105	0.005	2.736

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Max E.I.R.P (dBm)	Max E.I.R.P (W)	Evaluation Exemption limit (W)
WLAN 11b/g	2412-2462	24.01	2.5	26.51	0.448	2.684
WLAN 11a/n/ac	5150-5250	21.06	2.5	23.56	0.227	4.507
WLAN 11a/n/ac	5350-5720	21.44	2.5	23.94	0.248	4.626
WLAN 11a/n/ac	5725-2825	20.36	2.5	22.86	0.193	4.845

The above results show that the E.I.R.P of this device is below the exemption limit for Routine Evaluation.

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