

Maximum Permissible Exposure Evaluation

FCC ID: 2A762-W3M IC: 31926-W3M

1. Client Information

Applicant	:	Tianjian Group Co.,Ltd.
Address	:	501, No.9, Nuclear Power Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen, China
Manufacturer	:	Tianjian Group Co.,Ltd.
Address	:	501, No.9, Nuclear Power Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen, China

2. General Description of EUT

EUT Name	:	IP CAMERA
HVIN	:	T-CP8040LF-W3M For ISED
Models No.	:	T-CP8010TF-W3M, T-CP8020TF-W2Z, T-CP8042LF-W3M, T-CP8043LF-W5M, T-CP8044LF-W3M, T-CP8050LF-W3M, T-CP8052LF-W3M, T-CP8053LF-W5M, T-CP8054LF-W3M, T-CP8060LF-W3M, T-CP8060LV-W3B, T-CP8062LF-W3M, T-CP8070LF-W3M, T-CP8072LF-W3M, T-CP8076LF-W3M, T-CP8080LF-W5M, T-CP8082LF-W3M, T-T-CP8090LF-W3M, T-CP8092LF-W5M, T-CP8095LF-W5M, T-CP8096LF-W3M, T-CP80XXLF-WXX, T-CP9006TF-W3M, T-CP9026TF-W3M, T-CP90XXTF-WXX, T-CL6020LF-W44J, T-CL6021SF-W44J, T-CL7020LF-W44J, T-CL70XXLF-WXX For FCC& ISED
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is different customers, different model name.
Product Description	:	Operation Frequency: 2.4G Wi-Fi: 2412MHz~2462MHz Bluetooth 5.0(BLE): 2402MHz~2480MHz U-NII-1: 5180MHz~5240MHz U-NII-2A: 5260MHz~5320MHz U-NII-2C: 5500MHz~5700MHz U-NII-3: 5745MHz~5825MHz
	:	Antenna Gain: BLE&2.4G Wi-Fi: 4.22dBi FPC Antenna Band 1: 3.88dBi FPC Antenna Band 2: 3.85dBi FPC Antenna Band 3: 4.08dBi FPC Antenna Band 4: 3.84dBi FPC Antenna

Power Rating	:	Input: DC 5V/1A
Software Version	:	V4.6.10
Hardware Version	:	V276
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: (1) The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.		

MPE Calculations for WIFI

1. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

3. Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

$$\sum \text{ of MPE ratios } \leq 1.0$$

4. Test Result:

worst reported.

BLE MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
BLE (1Mbps)	1	2402	4.727	5±1	6	4.22	20	0.0011
		2440	4.534	5±1	6	4.22	20	0.0011
		2480	3.624	4±1	5	4.22	20	0.0011
BLE (2Mbps)	1	2402	4.705	5±1	6	4.22	20	0.0011
		2440	4.499	4±1	5	4.22	20	0.0011
		2480	3.571	4±1	5	4.22	20	0.0011

Note:
N_{TX}= Number of Transmit Antennas
RF Output power specifies that Maximum Conducted Peak Output Power.

2.4G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
802.11b	1	2412	15.25	15±1	16	4.22	20	0.0209
		2437	15.91	16±1	17	4.22	20	0.0263
		2462	14.59	15±1	16	4.22	20	0.0209
802.11g	1	2412	13.81	14±1	15	4.22	20	0.0166
		2437	13.14	13±1	14	4.22	20	0.0132
		2462	13.25	13±1	14	4.22	20	0.0132
802.11n20	1	2412	12.62	13±1	14	4.22	20	0.0132
		2437	11.42	11±1	12	4.22	20	0.0083
		2462	10.65	11±1	12	4.22	20	0.0083
802.11n40	1	2422	10.93	11±1	12	4.22	20	0.0083
		2437	11.35	11±1	12	4.22	20	0.0083
		2452	10.88	11±1	12	4.22	20	0.0083
802.11ax20	1	2412	10.58	11±1	12	4.22	20	0.0083
		2437	9.88	10±1	11	4.22	20	0.0066
		2462	9.08	9±1	10	4.22	20	0.0053
802.11ax40	1	2422	9.16	9±1	10	4.22	20	0.0053
		2437	8.69	9±1	10	4.22	20	0.0053
		2452	8.67	9±1	10	4.22	20	0.0053
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

5.2G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
802.11a	1	5180	13.91	14±1	15	3.88	20	0.0154
		5200	13.98	14±1	15	3.88	20	0.0154
		5240	13.94	14±1	15	3.88	20	0.0154
802.11n20	1	5180	12.98	13±1	14	3.88	20	0.0122
		5200	12.94	13±1	14	3.88	20	0.0122
		5240	13.11	13±1	14	3.88	20	0.0122
802.11n40	1	5190	12.87	13±1	14	3.88	20	0.0122
		5230	12.86	13±1	14	3.88	20	0.0122
802.11ac20	1	5180	12.31	12±1	13	3.88	20	0.0097
		5200	13.03	13±1	14	3.88	20	0.0122
		5240	12.73	13±1	14	3.88	20	0.0122
802.11ac40	1	5190	10.70	11±1	12	3.88	20	0.0077
		5230	10.35	10±1	11	3.88	20	0.0061
802.11ax20	1	5180	12.41	12±1	13	3.88	20	0.0097
		5200	12.59	13±1	14	3.88	20	0.0122
		5240	12.76	13±1	14	3.88	20	0.0122
802.11ax40	1	5190	11.81	12±1	13	3.88	20	0.0097
		5230	11.67	12±1	13	3.88	20	0.0097
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

5.3G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
802.11a	1	5260	13.95	14±1	15	3.85	20	0.0153
		5280	14.07	14±1	15	3.85	20	0.0153
		5320	14.24	14±1	15	3.85	20	0.0153
802.11n20	1	5260	13.17	13±1	14	3.85	20	0.0121
		5280	13.35	13±1	14	3.85	20	0.0121
		5320	13.41	13±1	14	3.85	20	0.0121
802.11n40	1	5270	13.22	13±1	14	3.85	20	0.0121
		5310	13.40	13±1	14	3.85	20	0.0121
802.11ac20	1	5260	12.69	13±1	14	3.85	20	0.0121
		5280	12.82	13±1	14	3.85	20	0.0121
		5320	13.09	13±1	14	3.85	20	0.0121
802.11ac40	1	5270	11.69	12±1	13	3.85	20	0.0096
		5310	11.28	11±1	12	3.85	20	0.0077
802.11ax20	1	5260	11.81	12±1	13	3.85	20	0.0096
		5280	12.21	12±1	13	3.85	20	0.0096
		5320	13.14	13±1	14	3.85	20	0.0121
802.11ax40	1	5270	11.99	12±1	13	3.85	20	0.0096
		5310	12.54	13±1	14	3.85	20	0.0121
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

5.5G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
802.11a	1	5500	12.01	12±1	13	4.08	20	0.0102
		5580	11.18	11±1	12	4.08	20	0.0081
		5700	10.30	10±1	11	4.08	20	0.0064
802.11n20	1	5500	12.03	12±1	13	4.08	20	0.0102
		5580	12.56	13±1	14	4.08	20	0.0128
		5700	11.08	11±1	12	4.08	20	0.0081
802.11n40	1	5510	11.01	11±1	12	4.08	20	0.0081
		5550	12.15	12±1	13	4.08	20	0.0102
		5670	11.03	11±1	12	4.08	20	0.0081
802.11ac20	1	5500	10.90	11±1	12	4.08	20	0.0081
		5580	9.80	10±1	11	4.08	20	0.0064
		5700	10.05	10±1	11	4.08	20	0.0064
802.11ac40	1	5510	8.91	9±1	10	4.08	20	0.0051
		5550	10.42	10±1	11	4.08	20	0.0064
		5670	9.03	9±1	10	4.08	20	0.0051
802.11ax20	1	5500	9.93	10±1	11	4.08	20	0.0064
		5580	9.02	9±1	10	4.08	20	0.0051
		5700	10.22	10±1	11	4.08	20	0.0064
802.11ax40	1	5510	10.14	10±1	11	4.08	20	0.0064
		5550	11.21	11±1	12	4.08	20	0.0081
		5670	10.32	10±1	11	4.08	20	0.0064
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

5.8G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
802.11a	1	5745	17.04	17±1	18	3.84	20	0.0304
		5785	16.45	16±1	17	3.84	20	0.0241
		5825	15.71	16±1	17	3.84	20	0.0241
802.11n20	1	5745	16.08	16±1	17	3.84	20	0.0241
		5785	15.57	16±1	17	3.84	20	0.0241
		5825	14.84	15±1	16	3.84	20	0.0192
802.11n40	1	5755	15.80	16±1	17	3.84	20	0.0241
		5795	15.25	15±1	16	3.84	20	0.0192
802.11ac20	1	5745	15.22	15±1	16	3.84	20	0.0192
		5785	14.67	15±1	16	3.84	20	0.0192
		5825	13.90	14±1	15	3.84	20	0.0152
802.11ac40	1	5755	14.83	15±1	16	3.84	20	0.0192
		5795	14.27	14±1	15	3.84	20	0.0152
802.11ax20	1	5745	14.60	15±1	16	3.84	20	0.0192
		5785	14.40	14±1	15	3.84	20	0.0152
		5825	14.15	14±1	15	3.84	20	0.0152
802.11ax40	1	5755	14.99	15±1	16	3.84	20	0.0192
		5795	14.26	14±1	15	3.84	20	0.0152
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For Bluetooth LE, 2.4G Wi-Fi and 5G Wi-Fi

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.0304 < \text{limit } 1\text{mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

Method Of Measurement for IC

1. Applicable Standard

[Radio Standards Specification 102](#), Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands), sets out the requirements and measurement techniques used to evaluate radio frequency (RF) exposure compliance of radio communication apparatus designed to be used within the vicinity of the human body.

[ANSI C95.1–1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

2. Evaluation Method and Limit

According to RSS-102 §4 Table 4, RF Filed Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10 ²¹	83	90	-	Instantaneous*
0.1-10	-	0.73/ f	-	6**
1.1-10	87/ $f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ $f^{0.25}$	0.1540/ $f^{0.25}$	8.944/ $f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 $f^{0.3417}$	0.008335 $f^{0.3417}$	0.02619 $f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ $f^{1.2}$
150000-300000	0.158 $f^{0.5}$	4.21 x 10 ⁻⁴ $f^{0.5}$	6.67 x 10 ⁻⁵ f	616000/ $f^{1.2}$

Note: f is frequency in MHz.
*Based on nerve stimulation (NS).
** Based on specific absorption rate (SAR).

Frequency Band	f (MHz)	Limit of Power Density (W/m ²)
2.4G WLAN	2412	5.37
Bluetooth	2402	5.35
5G WLAN	5180	9.05

Note: Limit=0.02619 $f^{0.6834}$ (where f is in MHz).
The f in the limit is the frequency of the lowest Channel.

4.1 Calculation Formula

Prediction of power density at the distance of the applicable MPE limit:

$S = PG/4\pi R^2$ = Power density (in appropriate units, e.g W/m²)

P = power input to antenna (in appropriate units, e.g W)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g m)

Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

$\sum$ of MPE ratios ≤ 1.0

5. Evaluation Results

Standalone MPE Evaluation:

BLE MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
BLE (1Mbps)	1	2402	4.727	5±1	6	4.22	0.2	0.011
		2440	4.534	5±1	6	4.22	0.2	0.011
		2480	3.624	4±1	5	4.22	0.2	0.011
BLE (2Mbps)	1	2402	4.705	5±1	6	4.22	0.2	0.011
		2440	4.499	4±1	5	4.22	0.2	0.011
		2480	3.571	4±1	5	4.22	0.2	0.011
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

2.4G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
802.11b	1	2412	15.25	15±1	16	4.22	0.2	0.0209
		2437	15.91	16±1	17	4.22	0.2	0.0263
		2462	14.59	15±1	16	4.22	0.2	0.0209
802.11g	1	2412	13.81	14±1	15	4.22	0.2	0.0166
		2437	13.14	13±1	14	4.22	0.2	0.0132
		2462	13.25	13±1	14	4.22	0.2	0.0132
802.11n20	1	2412	12.62	13±1	14	4.22	0.2	0.0132
		2437	11.42	11±1	12	4.22	0.2	0.0083
		2462	10.65	11±1	12	4.22	0.2	0.0083
802.11n40	1	2422	10.93	11±1	12	4.22	0.2	0.0083
		2437	11.35	11±1	12	4.22	0.2	0.0083
		2452	10.88	11±1	12	4.22	0.2	0.0083
802.11ax20	1	2412	10.58	11±1	12	4.22	0.2	0.0083
		2437	9.88	10±1	11	4.22	0.2	0.0066
		2462	9.08	9±1	10	4.22	0.2	0.0053
802.11ax40	1	2422	9.16	9±1	10	4.22	0.2	0.0053
		2437	8.69	9±1	10	4.22	0.2	0.0053
		2452	8.67	9±1	10	4.22	0.2	0.0053
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

5.2G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
802.11a	1	5180	13.91	14±1	15	3.88	0.2	0.154
		5200	13.98	14±1	15	3.88	0.2	0.154
		5240	13.94	14±1	15	3.88	0.2	0.154
802.11n20	1	5180	12.98	13±1	14	3.88	0.2	0.122
		5200	12.94	13±1	14	3.88	0.2	0.122
		5240	13.11	13±1	14	3.88	0.2	0.122
802.11n40	1	5190	12.87	13±1	14	3.88	0.2	0.122
		5230	12.86	13±1	14	3.88	0.2	0.122
802.11ac20	1	5180	12.31	12±1	13	3.88	0.2	0.097
		5200	13.03	13±1	14	3.88	0.2	0.122
		5240	12.73	13±1	14	3.88	0.2	0.122
802.11ac40	1	5190	10.70	11±1	12	3.88	0.2	0.077
		5230	10.35	10±1	11	3.88	0.2	0.061
802.11ax20	1	5180	12.41	12±1	13	3.88	0.2	0.097
		5200	12.59	13±1	14	3.88	0.2	0.122
		5240	12.76	13±1	14	3.88	0.2	0.122
802.11ax40	1	5190	11.81	12±1	13	3.88	0.2	0.097
		5230	11.67	12±1	13	3.88	0.2	0.097
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

5.3G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
802.11a	1	5260	13.95	14±1	15	3.85	0.2	0.153
		5280	14.07	14±1	15	3.85	0.2	0.153
		5320	14.24	14±1	15	3.85	0.2	0.153
802.11n20	1	5260	13.17	13±1	14	3.85	0.2	0.121
		5280	13.35	13±1	14	3.85	0.2	0.121
		5320	13.41	13±1	14	3.85	0.2	0.121
802.11n40	1	5270	13.22	13±1	14	3.85	0.2	0.121
		5310	13.40	13±1	14	3.85	0.2	0.121
802.11ac20	1	5260	12.69	13±1	14	3.85	0.2	0.121
		5280	12.82	13±1	14	3.85	0.2	0.121
		5320	13.09	13±1	14	3.85	0.2	0.121
802.11ac40	1	5270	11.69	12±1	13	3.85	0.2	0.096
		5310	11.28	11±1	12	3.85	0.2	0.077
802.11ax20	1	5260	11.81	12±1	13	3.85	0.2	0.096
		5280	12.21	12±1	13	3.85	0.2	0.096
		5320	13.14	13±1	14	3.85	0.2	0.121
802.11ax40	1	5270	11.99	12±1	13	3.85	0.2	0.096
		5310	12.54	13±1	14	3.85	0.2	0.121
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

5.5G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
802.11a	1	5500	12.01	12±1	13	4.08	0.2	0.102
		5580	11.18	11±1	12	4.08	0.2	0.081
		5700	10.30	10±1	11	4.08	0.2	0.064
802.11n20	1	5500	12.03	12±1	13	4.08	0.2	0.102
		5580	12.56	13±1	14	4.08	0.2	0.128
		5700	11.08	11±1	12	4.08	0.2	0.081
802.11n40	1	5510	11.01	11±1	12	4.08	0.2	0.081
		5550	12.15	12±1	13	4.08	0.2	0.102
		5670	11.03	11±1	12	4.08	0.2	0.081
802.11ac20	1	5500	10.90	11±1	12	4.08	0.2	0.081
		5580	9.80	10±1	11	4.08	0.2	0.064
		5700	10.05	10±1	11	4.08	0.2	0.064
802.11ac40	1	5510	8.91	9±1	10	4.08	0.2	0.051
		5550	10.42	10±1	11	4.08	0.2	0.064
		5670	9.03	9±1	10	4.08	0.2	0.051
802.11ax20	1	5500	9.93	10±1	11	4.08	0.2	0.064
		5580	9.02	9±1	10	4.08	0.2	0.051
		5700	10.22	10±1	11	4.08	0.2	0.064
802.11ax40	1	5510	10.14	10±1	11	4.08	0.2	0.064
		5550	11.21	11±1	12	4.08	0.2	0.081
		5670	10.32	10±1	11	4.08	0.2	0.064
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

5.8G Wi-Fi MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (m) [R]	Power Density (W/m ²) [S]
802.11a	1	5745	17.04	17±1	18	3.84	0.2	0.304
		5785	16.45	16±1	17	3.84	0.2	0.241
		5825	15.71	16±1	17	3.84	0.2	0.241
802.11n20	1	5745	16.08	16±1	17	3.84	0.2	0.241
		5785	15.57	16±1	17	3.84	0.2	0.241
		5825	14.84	15±1	16	3.84	0.2	0.192
802.11n40	1	5755	15.80	16±1	17	3.84	0.2	0.241
		5795	15.25	15±1	16	3.84	0.2	0.192
802.11ac20	1	5745	15.22	15±1	16	3.84	0.2	0.192
		5785	14.67	15±1	16	3.84	0.2	0.192
		5825	13.90	14±1	15	3.84	0.2	0.152
802.11ac40	1	5755	14.83	15±1	16	3.84	0.2	0.192
		5795	14.27	14±1	15	3.84	0.2	0.152
802.11ax20	1	5745	14.60	15±1	16	3.84	0.2	0.192
		5785	14.40	14±1	15	3.84	0.2	0.152
		5825	14.15	14±1	15	3.84	0.2	0.152
802.11ax40	1	5755	14.99	15±1	16	3.84	0.2	0.192
		5795	14.26	14±1	15	3.84	0.2	0.152
Note: N _{TX} = Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

Remark:

- Output power including turn-up tolerance;
- Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
- MPE evaluate distance is 20cm from user manual provide by manufacturer.

Note

For a more detailed features description, please refer to the RF Test Report.

-----END OF REPORT-----