Maximum Permissible Exposure Evaluation

FCC ID: 2A273-H1 & IC: 27738-H1

1. Client Information

Applicant	:	Hangzhou Dangshi Science and Technology Co., Ltd.
Address	:	Room 205, block C, building 3, No. 228, BINKANG Road, Xixing street, Binjiang District, Hangzhou City, Zhejiang Province, China
Manufacturer	:	Hangzhou Dangshi Science and Technology Co., Ltd.
Address	:	Room 205, block C, building 3, No. 228, BINKANG Road, Xixing street, Binjiang District, Hangzhou City, Zhejiang Province, China

2. General Description of EUT

EUT Name	:	Projector	
HVIN/Models No.	:	H1	
Model Different	:	----	
Sample ID	:	20211018-05-1#& 20211018-05-2#	
Product Description	:	Operation Frequency:	U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz 802.11b/g/n(HT20): 2412MHz~2462MHz Bluetooth 5.0(BER+EDR): 2402MHz~2480MHz
		Antenna Gain:	Bluetooth: -0.58dBi PCB Antenna (Module 1 JHEB14F5B) -0.58dBi FPC Antenna (Module 2 BCM43569PKFFBG) 2.4g wifi: FPC1 antenna, Maximum Gain: 2.0dBi FPC2 antenna, Maximum Gain: 2.0dBi 5g wifi: FPC1 antenna, Maximum Gain: 2.0dBi FPC2 antenna, Maximum Gain: 2.0dBi
Power Rating	:	Input: 100-240V~, 50/60Hz Output: DC 20V/3.25A DC 10.8V by 2500mAh/27Wh Rechargeable Li-ion Battery	
Software Version	:	9.0.0 R.S.	
Hardware Version	:	210903_1_H1_Rev1.0SP1_A	
Remark	:	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Tel: +86 75526509301 Fax: +86 75526509195

Method Of Measurement for FCC

1. **Max. Antenna Gain:**
   BT Antenna: -0.58dBi.
   2.4G WIFI Antenna: 2.0dBi.
   5G WIFI Antenna: 2.0dBi.

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

3. **Exposure Evaluation:**
   Equation from page 18 of OET Bulletin 65, Edition 97-01
   $\mathbf{S=(PG)/4\pi R^2}$
   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

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:

∑ of MPE ratios ≤ 1.0

4. Test Result:

Bluetooth (JHEB14F5B) 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]
GFSK	1	2402	1.14	1±1	2	-0.58	20	0.0003
		2441	0.24	0±1	1	-0.58	20	0.0002
		2480	-0.35	0±1	1	-0.58	20	0.0002
π /4-DQPSK	1	2402	2.84	3±1	4	-0.58	20	0.0004
		2441	2.06	2±1	3	-0.58	20	0.0003
		2480	1.34	1±1	2	-0.58	20	0.0003
8-DPSK	1	2402	3.06	3±1	4	-0.58	20	0.0004
		2441	2.01	2±1	3	-0.58	20	0.0003
		2480	1.78	1±1	2	-0.58	20	0.0003

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

Bluetooth (BCM43569PKFFBG) 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]
GFSK	1	2402	7.15	7±1	8	-0.58	20	0.0011
		2441	7.37	7±1	8	-0.58	20	0.0011
		2480	7.52	7±1	8	-0.58	20	0.0011
π /4-DQPSK	1	2402	4.95	4±1	5	-0.58	20	0.0006
		2441	5.44	5±1	6	-0.58	20	0.0007
		2480	5.6	5±1	6	-0.58	20	0.0007
8-DPSK	1	2402	4.95	4±1	5	-0.58	20	0.0006
		2441	5.42	5±1	6	-0.58	20	0.0007
		2480	5.7	5±1	6	-0.58	20	0.0007

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

2.4G WiFi MPE Result Antenna 1								
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	14.33	14±1	15	2	20	0.0100
		2437	15.01	15±1	16	2	20	0.0126
		2462	15.51	15±1	16	2	20	0.0126
802.11g	1	2412	14.37	14±1	15	2	20	0.0100
		2437	15.13	15±1	16	2	20	0.0126
		2462	15.67	15±1	16	2	20	0.0126
802.11n20	1	2412	11.76	11±1	12	2	20	0.0050
		2437	11.11	11±1	12	2	20	0.0050
		2462	11.13	11±1	12	2	20	0.0050
Note: N_{TX}= Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

2.4G WiFi MPE Result Antenna 2								
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]
802.11n20	1	2412	12.7	12±1	13	2	20	0.0063
		2437	12.65	12±1	13	2	20	0.0063
		2462	12.42	12±1	13	2	20	0.0063
Note: N_{TX}= Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

5.2G WiFi MPE Result Antenna 1								
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	9.99	11±1	12	2	20	0.0050
		5200	10.92	11±1	12	2	20	0.0050
		5240	9.86	10±1	11	2	20	0.0040
802.11n20	1	5180	5.86	6±1	7	2	20	0.0016
		5200	7.27	7±1	8	2	20	0.0020
		5240	9.31	10±1	11	2	20	0.0040
802.11n40	1	5190	12.0	12±1	13	2	20	0.0063
		5230	15.57	15±1	16	2	20	0.0126
802.11ac20	1	5180	11.73	11±1	12	2	20	0.0050
		5200	11.47	11±1	12	2	20	0.0050
		5240	11.6	11±1	12	2	20	0.0050
802.11ac40	1	5190	11.05	11±1	12	2	20	0.0050
		5230	11.38	11±1	12	2	20	0.0050
802.11ac80	1	5210	10.84	11±1	12	2	20	0.0050

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

5.2G WiFi MPE Result Antenna 2								
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	9.77	9±1	10	2	20	0.0032
		5200	9.81	9±1	10	2	20	0.0032
		5240	10.92	11±1	12	2	20	0.0050
802.11n20	1	5180	14.35	14±1	15	2	20	0.0100
		5200	15	15±1	16	2	20	0.0126
		5240	16.34	16±1	17	2	20	0.0158
802.11n40	1	5190	12	12±1	13	2	20	0.0063
		5230	8.79	8±1	9	2	20	0.0025
802.11ac20	1	5180	10.75	10±1	11	2	20	0.0040
		5200	10.23	10±1	11	2	20	0.0040
		5240	11.47	11±1	12	2	20	0.0050
802.11ac40	1	5190	11.59	11±1	12	2	20	0.0050
		5230	13.37	13±1	14	2	20	0.0079
802.11ac80	1	5210	12.03	12±1	13	2	20	0.0063

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

5.8G WiFi MPE Result Antenna 1								
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	10.48	10±1	11	2	20	0.0040
		5785	10.3	10±1	11	2	20	0.0040
		5825	10.19	10±1	11	2	20	0.0040
802.11n20	1	5745	9.75	9±1	10	2	20	0.0032
		5785	9.44	9±1	10	2	20	0.0032
		5825	9.4	10±1	11	2	20	0.0040
802.11n40	1	5755	11.8	12±1	13	2	20	0.0063
		5795	11.97	12±1	13	2	20	0.0063
802.11ac20	1	5745	8.89	9±1	10	2	20	0.0032
		5785	8.73	9±1	10	2	20	0.0032
		5825	10.42	11±1	12	2	20	0.0050
802.11ac40	1	5755	11.99	12±1	13	2	20	0.0063
		5795	10.8	11±1	12	2	20	0.0050
802.11ac80	1	5775	11.74	11±1	12	2	20	0.0050

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

5.8G WiFi MPE Result Antenna 2								
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	14.59	14±1	15	2	20	0.0100
		5785	13.66	13±1	14	2	20	0.0079
		5825	13.96	13±1	14	2	20	0.0079
802.11n20	1	5745	13.7	13±1	14	2	20	0.0079
		5785	13.07	13±1	14	2	20	0.0079
		5825	13.4	13±1	14	2	20	0.0079
802.11n40	1	5755	12.43	12±1	13	2	20	0.0063
		5795	11.37	11±1	12	2	20	0.0050
802.11ac20	1	5745	13.1	13±1	14	2	20	0.0079
		5785	11.28	11±1	12	2	20	0.0050
		5825	10.87	11±1	12	2	20	0.0050
802.11ac40	1	5755	12.15	12±1	13	2	20	0.0063
		5795	10.79	11±1	12	2	20	0.0050
802.11ac80	1	5775	9.74	10±1	11	2	20	0.0040
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:2402~2480MHz&2412~2462MHz&5180~5240MHz (BCM43569PKFFBG)
MPE limit S: 1mW/ cm^2

The MPE is calculated as ***0.0158mW / cm² < limit 1mW / cm²***.

For:2402~2480MHz (JHEB14F5B)
MPE limit S: 1mW/ cm^2
The MPE is calculated as ***0.0004mW / cm² < limit 1mW / cm²***.

Bluetooth and (WiFi + Bluetooth) support Synchronization transmit the

$$\sum MPE_{ratios}=0.0004+0.0011+0.0126+0.0158=0.0299<1$$

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.

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)
$0.003\text{-}10^{21}$	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	$3.142f^{0.3417}$	$0.008335f^{0.3417}$	$0.02619f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$

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=$0.02619f^{0.6834}$ (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/4πR²=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:

∑ of MPE ratios ≤ 1.0

5. Evaluation Results

Standalone MPE Evaluation:

Bluetooth (JHEB14F5B) MPE Result								
Mode	NTX	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 (W/ m2) [S]
GFSK	1	2402	1.14	1±1	2	-0.58	0.2	0.0028
		2441	0.24	0±1	1	-0.58	0.2	0.0022
		2480	-0.35	0±1	1	-0.58	0.2	0.0022
π/4-DQPSK	1	2402	2.84	3±1	4	-0.58	0.2	0.0044
		2441	2.06	2±1	3	-0.58	0.2	0.0035
		2480	1.34	1±1	2	-0.58	0.2	0.0028
8-DPSK	1	2402	3.06	3±1	4	-0.58	0.2	0.0044
		2441	2.01	2±1	3	-0.58	0.2	0.0035
		2480	1.78	1±1	2	-0.58	0.2	0.0028

Note:
NTX= Number of Transmit Antennas
RF Output power specifies that Maximum Conducted Peak Output Power.

Bluetooth (BCM43569PKFFBG) MPE Result								
Mode	NTX	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 (W/ m2) [S]
GFSK	1	2402	7.15	7±1	8	-0.58	0.2	0.0110
		2441	7.37	7±1	8	-0.58	0.2	0.0110
		2480	7.52	7±1	8	-0.58	0.2	0.0110
π/4-DQPSK	1	2402	4.95	4±1	5	-0.58	0.2	0.0055
		2441	5.44	5±1	6	-0.58	0.2	0.0069
		2480	5.6	5±1	6	-0.58	0.2	0.0069
8-DPSK	1	2402	4.95	4±1	5	-0.58	0.2	0.0055
		2441	5.42	5±1	6	-0.58	0.2	0.0069
		2480	5.7	5±1	6	-0.58	0.2	0.0069
Note: NTX= Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

2.4G WiFi MPE Result Antenna 1								
Mode	NTX	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 (W/ m2) [S]
802.11b	1	2412	14.33	14±1	15	2	0.2	0.0998
		2437	15.01	15±1	16	2	0.2	0.1256
		2462	15.51	15±1	16	2	0.2	0.1256
802.11g	1	2412	14.37	14±1	15	2	0.2	0.0998
		2437	15.13	15±1	16	2	0.2	0.1256
		2462	15.67	15±1	16	2	0.2	0.1256
802.11n20	1	2412	11.76	11±1	12	2	0.2	0.0500
		2437	11.11	11±1	12	2	0.2	0.0500
		2462	11.13	11±1	12	2	0.2	0.0500
Note: NTX= Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

2.4G WiFi MPE Result Antenna 1								
Mode	NTX	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 (W/ m2) [S]
802.11n20	2	2412	12.7	12±1	13	2	0.2	0.0629
		2437	12.65	12±1	13	2	0.2	0.0629
		2462	12.42	12±1	13	2	0.2	0.0629
Note: NTX= Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.								

5.2G WiFi MPE Result Antenna 1								
Mode	NTX	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 (W/ m2) [S]
802.11a	1	5180	9.99	11±1	12	2	0.2	0.0500
		5200	10.92	11±1	12	2	0.2	0.0500
		5240	9.86	10±1	11	2	0.2	0.0397
802.11n20	1	5180	5.86	6±1	7	2	0.2	0.0158
		5200	7.27	7±1	8	2	0.2	0.0199
		5240	9.31	10±1	11	2	0.2	0.0397
802.11n40	1	5190	12.0	12±1	13	2	0.2	0.0629
		5230	15.57	15±1	16	2	0.2	0.1256
802.11ac20	1	5180	11.73	11±1	12	2	0.2	0.0500
		5200	11.47	11±1	12	2	0.2	0.0500
		5240	11.6	11±1	12	2	0.2	0.0500
802.11ac40	1	5190	11.05	11±1	12	2	0.2	0.0500
		5230	11.38	11±1	12	2	0.2	0.0500
802.11ac80	1	5210	10.84	11±1	12	2	0.2	0.0500
Note: NTX= Number of Transmit Antennas RF Output power specifies that Maximum Conducted average Output Power.								

5.2G WiFi MPE Result Antenna 2								
Mode	NTX	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/ m2) [S]
802.11a	1	5180	9.77	9±1	10	2	0.2	0.0315
		5200	9.81	9±1	10	2	0.2	0.0315
		5240	10.92	11±1	12	2	0.2	0.0500
802.11n20	1	5180	14.35	14±1	15	2	0.2	0.0998
		5200	15	15±1	16	2	0.2	0.1256
		5240	16.34	16±1	17	2	0.2	0.1581
802.11n40	1	5190	12	12±1	13	2	0.2	0.0629
		5230	8.79	8±1	9	2	0.2	0.0251
802.11ac20	1	5180	10.75	10±1	11	2	0.2	0.0397
		5200	10.23	10±1	11	2	0.2	0.0397
		5240	11.47	11±1	12	2	0.2	0.0500
802.11ac40	1	5190	11.59	11±1	12	2	0.2	0.0500
		5230	13.37	13±1	14	2	0.2	0.0792
802.11ac80	1	5210	12.03	12±1	13	2	0.2	0.0629

Note:
NTX= Number of Transmit Antennas
RF Output power specifies that Maximum Conducted average Output Power.

5.8G WiFi MPE Result Antenna 1								
Mode	NTX	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/ m2) [S]
802.11a	1	5745	10.48	10±1	11	2	0.2	0.0397
		5785	10.3	10±1	11	2	0.2	0.0397
		5825	10.19	10±1	11	2	0.2	0.0397
802.11n20	1	5745	9.75	9±1	10	2	0.2	0.0315
		5785	9.44	9±1	10	2	0.2	0.0315
		5825	9.4	10±1	11	2	0.2	0.0397
802.11n40	1	5755	11.8	12±1	13	2	0.2	0.0629
		5795	11.97	12±1	13	2	0.2	0.0629
802.11ac20	1	5745	8.89	9±1	10	2	0.2	0.0315
		5785	8.73	9±1	10	2	0.2	0.0315
		5825	10.42	11±1	12	2	0.2	0.0500
802.11ac40	1	5755	11.99	12±1	13	2	0.2	0.0629
		5795	10.8	11±1	12	2	0.2	0.0500
802.11ac80	1	5775	11.74	11±1	12	2	0.2	0.0500

Note:
NTX= Number of Transmit Antennas
RF Output power specifies that Maximum Conducted average Output Power.

5.8G WiFi MPE Result Antenna 2								
Mode	NTX	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/ m2) [S]
802.11a	1	5745	14.59	14±1	15	2	0.2	0.0998
		5785	13.66	13±1	14	2	0.2	0.0792
		5825	13.96	13±1	14	2	0.2	0.0792
802.11n20	1	5745	13.7	13±1	14	2	0.2	0.0792
		5785	13.07	13±1	14	2	0.2	0.0792
		5825	13.4	13±1	14	2	0.2	0.0792
802.11n40	1	5755	12.43	12±1	13	2	0.2	0.0629
		5795	11.37	11±1	12	2	0.2	0.0500
802.11ac20	1	5745	13.1	13±1	14	2	0.2	0.0792
		5785	11.28	11±1	12	2	0.2	0.0500
		5825	10.87	11±1	12	2	0.2	0.0500
802.11ac40	1	5755	12.15	12±1	13	2	0.2	0.0629
		5795	10.79	11±1	12	2	0.2	0.0500
802.11ac80	1	5775	9.74	10±1	11	2	0.2	0.0397
Note: **NTX= Number of Transmit Antennas** **RF Output power specifies that Maximum Conducted average Output Power.**								

Maximum Simultaneous transmission MPE Ratios for Bluetooth and WiFi support

Maximum MPE ratio Bluetooth	Maximum MPE ratio Bluetooth	Maximum MPE ratio 5.2GWiFi ANT 1	Maximum MPE ratio 5.2GWiFi ANT 2	∑MPE ratios	Limit	Results
0.0008	0.0020	0.0139	0.0175	0.0342	1	PASS

Remark:
1. Output power including turn-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. 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-----