

FCC ID:2A27O-IDN08

Maximum Permissible Exposure (MPE)

According to FCC 1.1310 and part 2.1091: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 * P * G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 * P * G}{377 * D^2}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

BT:

Measurement Result

Operation Frequency: 2402MHz~2480MHz

Power density limited: 1mW/ cm²

Antenna Type: PIFA antenna

Antenna gain: 3.36 dBi

R=20cm

mW=10^(dBm/10)

antenna gain Numeric=10^(dBi/10)

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
2402	DH5	5.44	6±1	7	5.012	3.36	2.17	0.0022	1
2441		5.73	6±1	7	5.012	3.36	2.17	0.0022	1
2480		5.73	6±1	7	5.012	3.36	2.17	0.0022	1
2402	2DH5	6.01	6±1	7	5.012	3.36	2.17	0.0022	1
2441		6.44	6±1	7	5.012	3.36	2.17	0.0022	1
2480		6.57	6±1	7	5.012	3.36	2.17	0.0022	1
2402	3DH5	6.05	6±1	7	5.012	3.36	2.17	0.0022	1
2441		6.54	6±1	7	5.012	3.36	2.17	0.0022	1
2480		6.64	6±1	7	5.012	3.36	2.17	0.0022	1

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
2402	BLE 1M	7.06	7±1	8	6.310	3.36	2.17	0.0027	1
2440		7.43	7±1	8	6.310	3.36	2.17	0.0027	1
2480		7.65	7±1	8	6.310	3.36	2.17	0.0027	1
2402	BLE 2M	7.07	7±1	8	6.310	3.36	2.17	0.0027	1
2440		7.44	7±1	8	6.310	3.36	2.17	0.0027	1
2480		7.66	7±1	8	6.310	3.36	2.17	0.0027	1

2.4G WIFI:

Operation Frequency: WIFI 802.11b/g/n20: 2412-2462MHz,
802.11n40: 2422-2452MHz
Power density limited: 1mW/ cm²

Antenna Type: PIFA antenna

Antenna gain: Ant 1 : 3.36 dBi; Ant 2 : 3.01 dBi

R=20cm

mW=10^{^(dBi/10)}

Antenna1 gain Numeric=10^{^(dBi/10)}

Antenna2 gain Numeric=10^{^(dBi/10)}

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
					(dBm)	(mW)	(dBi)	Numeric		
Ant 1	2412	802.11b	15.96	16±1	17	50.119	3.36	2.17	0.0216	1
Ant 1	2437		16.01	16±1	17	50.119	3.36	2.17	0.0216	1
Ant 1	2462		16.4	16±1	17	50.119	3.36	2.17	0.0216	1
Ant 2	2412	802.11b	15.8	16±1	17	50.119	3.01	2.00	0.0199	1
Ant 2	2437		15.96	16±1	17	50.119	3.01	2.00	0.0199	1
Ant 2	2462		15.93	16±1	17	50.119	3.01	2.00	0.0199	1
Ant 1	2412	802.11g	13.82	14±1	15	31.623	3.36	2.17	0.0136	1
Ant 1	2437		13.89	14±1	15	31.623	3.36	2.17	0.0136	1
Ant 1	2462		14.23	14±1	15	31.623	3.36	2.17	0.0136	1
Ant 2	2412	802.11g	14.03	14±1	15	31.623	3.01	2.00	0.0126	1
Ant 2	2437		14.19	14±1	15	31.623	3.01	2.00	0.0126	1
Ant 2	2462		14.16	14±1	15	31.623	3.01	2.00	0.0126	1
Ant 1	2412	802.11n H20	13.84	14±1	15	31.623	3.36	2.17	0.0136	1
Ant 1	2437		13.88	14±1	15	31.623	3.36	2.17	0.0136	1
Ant 1	2462		13.97	14±1	15	31.623	3.36	2.17	0.0136	1
Ant 2	2412	802.11n H20	12.92	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2437		12.77	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2462		12.72	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 1	2422	802.11n H40	12.83	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 1	2437		12.92	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 1	2452		12.88	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 2	2422	802.11n H40	12.78	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2437		12.84	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2452		12.91	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 1	2412	802.11ax2 0	12.67	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 1	2437		12.57	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 1	2462		13.02	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 2	2412	802.11ax2 0	12.37	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2437		12.53	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2462		12.61	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 1	2422	802.11ax4 0	12.62	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 1	2437		12.59	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 1	2452		12.92	13±1	14	25.119	3.36	2.17	0.0108	1
Ant 2	2422	802.11ax4 0	12.49	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2437		12.54	13±1	14	25.119	3.01	2.00	0.0100	1
Ant 2	2452		12.61	13±1	14	25.119	3.01	2.00	0.0100	1

5G WIFI:

Operation Frequency: WIFI 802.11a/ac/n(HT20): 5180-5240MHz;5260-5320MHz,5500-5700MHz,5745-5825MHz;WIFI 802.11ac/n(HT40): 5190-5230MHz;5270-5310MHz,5510-5670MHz5755-5795MHz; WIFI 802.11ac80:5210-5210MHz;5290-5290MHz;5530-5610MHz; 5775-5775MHz

Power density limited: 1mW/cm

Antenna Type: PIFA antenna

antenna gain: Ant 1: 5.25 dBi; Ant 2: 5.43dBi

R=20cm

$mW=10^{(dBm/10)}$

antenna 1gain Numeric= $10^{(dBi/10)}$

antenna 2gain Numeric= $10^{(dBi/10)}$

5.2G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(dBm)	(mW)	(dBi)	Numeric	(mW/cm ²)
Ant1	5180	802.11a	13.368	13.5±1	14.5	28.184	5.25	3.35	0.0188	1
Ant1	5200		13.373	13.5±1	14.5	28.184	5.25	3.35	0.0188	1
Ant1	5240		13.589	13.5±1	14.5	28.184	5.25	3.35	0.0188	1
Ant2	5180	802.11a	12.548	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5200		12.554	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5240		12.618	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5180	802.11ac20	13.288	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5200		13.255	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5240		13.442	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5180	802.11ac20	12.253	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5200		12.353	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5240		12.44	12±1	13	19.953	5.43	3.49	0.0139	1
Ant1	5190	802.11ac40	13.584	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5230		13.623	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5190	802.11ac40	12.752	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5230		12.57	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5210	802.11ac80	13.836	13.5±1	14.5	28.184	5.25	3.35	0.0188	1
Ant2	5210	802.11ac80	12.872	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5180	802.11ax20	13.04	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5200		13.098	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5240		13.245	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5180	802.11ax20	12.164	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5200		12.148	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5240		12.232	12±1	13	19.953	5.43	3.49	0.0139	1
Ant1	5190	802.11ax40	13.295	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5230		13.309	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5190	802.11ax40	12.396	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5230		12.402	12±1	13	19.953	5.43	3.49	0.0139	1
Ant1	5210	802.11ax80	13.564	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5210	802.11ax80	12.632	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5180	802.11n H20	13.323	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5200		13.286	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5240		13.503	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5180	802.11n H20	12.451	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5200		12.384	12±1	13	19.953	5.43	3.49	0.0139	1
Ant2	5240		12.441	12±1	13	19.953	5.43	3.49	0.0139	1
Ant1	5190	802.11n H40	13.579	13.5±1	14.5	28.184	5.25	3.35	0.0188	1
Ant1	5230		13.619	13.5±1	14.5	28.184	5.25	3.35	0.0188	1
Ant2	5190	802.11n H40	12.702	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5230		12.618	13±1	14	25.119	5.43	3.49	0.0174	1

5.3G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
Ant1	5260	802.11a	12.404	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5280		12.353	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5320		12.529	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5260	802.11a	12.775	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5280		12.776	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5320		12.739	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5260	802.11ac20	12.363	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5280		12.329	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5320		12.452	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5260	802.11ac20	12.802	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5280		12.709	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5320		12.675	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5270	802.11ac40	12.652	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5310		12.569	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5270	802.11ac40	13.061	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5310		12.972	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5290	802.11ac80	12.81	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5290	802.11ac80	13.282	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5260	802.11ax20	12.175	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5280		12.139	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5320		12.233	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5260	802.11ax20	12.619	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5280		12.586	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5320		12.566	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5270	802.11ax40	12.292	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5310		12.308	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5270	802.11ax40	12.714	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5310		12.684	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5290	802.11ax80	12.549	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5290	802.11ax80	12.936	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5260	802.11n H20	12.36	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5280		12.345	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5320		12.468	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5260	802.11n H20	12.751	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5280		12.717	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5320		12.705	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5270	802.11n H40	12.657	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5310		12.632	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5270	802.11n H40	13.048	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5310		12.982	12.5±1	13.5	22.387	5.43	3.49	0.0155	1

5.6G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
Ant1	5500	802.11a	12.51	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5600		12.525	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5700		12.576	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5500	802.11a	12.719	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5600		12.561	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5700		12.569	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5500	802.11ac20	12.662	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5600		12.373	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5700		12.54	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5500	802.11ac20	12.657	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5600		12.473	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5700		12.337	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5510	802.11ac40	12.692	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5590		12.707	13±1	14	25.119	5.25	3.35	0.0167	1
Ant1	5670		12.779	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5510	802.11ac40	12.814	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5590		12.844	13±1	14	25.119	5.43	3.49	0.0174	1
Ant2	5670		12.764	13±1	14	25.119	5.43	3.49	0.0174	1
Ant1	5530	802.11ac80	12.39	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5610		12.765	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5530	802.11ac80	12.55	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5610		12.796	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5500	802.11ax20	12.437	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5600		12.078	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5700		12.34	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5500	802.11ax20	12.431	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5600		12.331	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5700		12.244	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5510	802.11ax40	12.38	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5590		12.451	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5670		12.495	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5510	802.11ax40	12.565	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5590		12.651	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5670		12.547	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5530	802.11ax80	12.12	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5610		12.483	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5530	802.11ax80	12.215	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5610		12.49	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5500	802.11n20	12.679	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5600		12.436	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5700		12.476	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant2	5500	802.11n20	12.642	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5600		12.549	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5700		12.339	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant1	5510	802.11n40	12.698	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5590		12.721	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant1	5670		12.691	13±1	14	25.119	5.25	3.35	0.0167	1
Ant2	5510	802.11n40	12.781	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5590		12.853	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant2	5670		12.724	12.5±1	13.5	22.387	5.43	3.49	0.0155	1

5.8G

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
Ant 1	5745	802.11a	12.162	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5785		12.185	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5825		12.468	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5745	802.11a	12.495	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5785		12.619	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5825		12.63	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5745	802.11ac20	12.189	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5785		12.21	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5825		12.424	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5745	802.11ac20	12.469	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5785		12.71	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5825		12.726	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5755	802.11ac40	12.285	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5795		12.38	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5755	802.11ac40	12.646	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5795		12.698	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5775	802.11ac80	12.497	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5775	802.11ac80	12.763	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5745	802.11ax20	11.873	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5785		11.948	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5825		12.189	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5745	802.11ax20	12.282	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5785		12.501	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5825		12.463	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5755	802.11ax40	11.998	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5795		12.026	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5755	802.11ax40	12.19	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5795		12.41	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5775	802.11ax80	12.139	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5775	802.11ax80	12.502	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5745	802.11n H20	12.188	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5785		12.175	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5825		12.458	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5745	802.11n H20	12.491	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5785		12.696	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5825		12.691	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 1	5755	802.11n H40	12.277	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 1	5795		12.302	12.5±1	13.5	22.387	5.25	3.35	0.0149	1
Ant 2	5755	802.11n H40	12.669	12.5±1	13.5	22.387	5.43	3.49	0.0155	1
Ant 2	5795		12.89	12.5±1	13.5	22.387	5.43	3.49	0.0155	1

SIMULTANEOUS TRANSMISSIONS

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE. To comply with the MPE, the fraction of the MPE in terms of E^2 , H^2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity. In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

Max. SIMULTANEOUS TRANSMISSIONS MODE

Band	SISO					MIMO		Verdict
	Max conducted	Antenna	Separation distance (cm)	Evaluation result	Power density	Evaluation result	Power density Limits	
	(dBm)	Gain		(mW/cm2)	(mW/cm2)			
		(dBi)						
Wi-Fi 5G + BT	13.836	5.25	20	0.0188	1	0.021500	1	PASS
	7.66	3.36	20	0.0027	1			

- Note:
- 1. NO simultaneous transmissions are possible for this device of Wi-Fi 2.4G + BT.
 - 2. NO simultaneous transmissions are possible for this device of Wi-Fi 5G + Wi-Fi 2.4G.

Signature:

Date: 2024-11-18



NAME AND TITLE (Please print or type): alex li/Manager

COMPANY (Please print or type): Shenzhen NTEK Testing Technology Co., Ltd./ 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China.