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Maximum Permissive Exposure

FCC ID: ARS-WC0SR2511
EUT: WiFi module
Model No.: WC0SR2511

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30



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2. MPE Calculation

Top Victory Electronics(Taiwan) Co., Ltd. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

2.1. Estimation Result

DTS Band MPE:

Mode	Frequency (MHz)	Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11b	2412	16.54	45.08	2.04	1.60	0.014353
	2437	16.30	42.66	2.04	1.60	0.013582
	2462	16.48	44.46	2.04	1.60	0.014156
11g	2412	16.69	46.67	2.04	1.60	0.014858
	2437	16.33	42.95	2.04	1.60	0.013676
	2462	16.45	44.16	2.04	1.60	0.014059
11n HT20	2412	16.31	42.76	2.04	1.60	0.013613
	2437	16.71	46.88	2.04	1.60	0.014926
	2462	16.47	44.36	2.04	1.60	0.014124
11n HT40	2422	16.64	46.13	2.04	1.60	0.014688
	2437	16.55	45.19	2.04	1.60	0.014386
	2452	16.38	43.45	2.04	1.60	0.013834



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U-NII-1 Band MPE:

Mode	Frequency (MHz)	Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5180	15.86	38.55	3.05	2.02	0.015486
	5200	15.95	39.36	3.05	2.02	0.015811
	5240	15.91	38.99	3.05	2.02	0.015666
11n HT20	5180	15.83	38.28	3.05	2.02	0.015380
	5200	15.75	37.58	3.05	2.02	0.015099
	5240	16.04	40.18	3.05	2.02	0.016142
11n HT40	5190	16.29	42.56	3.05	2.02	0.017098
	5230	16.43	43.95	3.05	2.02	0.017658
11ac VHT20	5180	15.85	38.46	3.05	2.02	0.015451
	5200	15.98	39.63	3.05	2.02	0.015920
	5240	16.26	42.27	3.05	2.02	0.016980
11ac VHT40	5190	16.25	42.17	3.05	2.02	0.016941
	5230	16.35	43.15	3.05	2.02	0.017336
11ac VHT80	5210	16.07	40.46	3.05	2.02	0.016254



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U-NII-2A Band MPE:

Mode	Frequency (MHz)	Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5260	16.57	45.39	3.04	2.01	0.018195
	5300	16.53	44.98	3.04	2.01	0.018028
	5320	16.19	41.59	3.04	2.01	0.016671
11n HT20	5260	16.71	46.88	3.04	2.01	0.018791
	5300	16.50	44.67	3.04	2.01	0.017904
	5320	16.44	44.06	3.04	2.01	0.017658
11n HT40	5270	16.72	46.99	3.04	2.01	0.018834
	5310	16.74	47.21	3.04	2.01	0.018921
11ac VHT20	5260	16.13	41.02	3.04	2.01	0.016442
	5300	16.30	42.66	3.04	2.01	0.017098
	5320	16.59	45.60	3.04	2.01	0.018279
11ac VHT40	5270	16.55	45.19	3.04	2.01	0.018111
	5310	16.78	47.64	3.04	2.01	0.019096
11ac VHT80	5290	16.29	42.56	3.04	2.01	0.017059



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U-NII-2C Band MPE:

Mode	Frequency (MHz)	Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5500	16.90	48.98	2.855	1.93	0.018813
	5600	16.64	46.13	2.855	1.93	0.017719
	5700	16.77	47.53	2.855	1.93	0.018258
11n HT20	5500	17.51	56.36	2.855	1.93	0.021650
	5600	16.34	43.05	2.855	1.93	0.016537
	5700	16.54	45.08	2.855	1.93	0.017316
11n HT40	5510	16.77	47.53	2.855	1.93	0.018258
	5590	16.77	47.53	2.855	1.93	0.018258
	5670	16.82	48.08	2.855	1.93	0.018469
11ac VHT20	5500	16.22	41.88	2.855	1.93	0.016086
	5600	16.38	43.45	2.855	1.93	0.016690
	5700	16.72	46.99	2.855	1.93	0.018049
11ac VHT40	5510	16.80	47.86	2.855	1.93	0.018384
	5590	16.76	47.42	2.855	1.93	0.018216
	5670	16.88	48.75	2.855	1.93	0.018726
11ac VHT80	5530	16.05	40.27	2.855	1.93	0.015469
	5610	16.41	43.75	2.855	1.93	0.016805



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U-NII-3 Band MPE:

Mode	Frequency (MHz)	Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5745	16.67	46.45	3.09	0.018834	0.018834
	5785	16.29	42.56	3.09	0.017256	0.017256
	5825	16.06	40.36	3.09	0.016366	0.016366
11n HT20	5745	16.79	47.75	3.09	0.019362	0.019362
	5785	16.37	43.35	3.09	0.017577	0.017577
	5825	16.23	41.98	3.09	0.017020	0.017020
11n HT40	5755	16.85	48.42	3.09	0.019631	0.019631
	5795	16.23	41.98	3.09	0.017020	0.017020
11ac VHT20	5745	16.53	44.98	3.09	0.018237	0.018237
	5785	16.36	43.25	3.09	0.017537	0.017537
	5825	16.12	40.93	3.09	0.016594	0.016594
11ac VHT40	5755	16.80	47.86	3.09	0.019407	0.019407
	5795	16.68	46.56	3.09	0.018878	0.018878
11ac VHT80	5775	16.55	45.19	3.09	0.018321	0.018321

Based on **safety** distance (r) **20cm**, the antenna gain (G) is **1.93Numerical**, and the highest power output (P) is **56.36mW**, the power density (S) is **0.021650mW/cm²**.