* Standalone SAR test exclusion considerations

1. Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E 2, H 2 or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-10000			5	6

b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E 2, H 2 or S (minutes)
0.3-3.0	614	1.63	(100)*	30
3.0-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.0	30

Note: f=frequency in MHz

^{*=}Plane-wave equivalent power density

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2. MPE Calculation Method

S = power density

P = power input to 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

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

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

3. Calculated Result and Limit

(R = 20cm)

Mode	Channel	Peak Output Power		Antenna Gain		Power Density (S)	Limit of Power	Result
		(dBm)	(mW)	(dBi)	(numeric)	(mW/cm ²)	Density (S) (mW/cm ²)	Result
802.11b	Low	18.840	76.560	5.100	3.236	0.049287	1	PASS
	Middle	18.880	77.268	5.100	3.236	0.049743	1	PASS
	High	18.580	72.111	5.100	3.236	0.046423	1	PASS
802.11g	Low	17.990	62.951	5.100	3.236	0.040526	1	PASS
	Middle	20.690	117.220	5.100	3.236	0.075462	1	PASS
	High	17.330	54.075	5.100	3.236	0.034812	1	PASS
802.11n20	Low	17.570	57.148	5.100	3.236	0.036790	1	PASS
	Middle	20.320	107.647	5.100	3.236	0.069300	1	PASS
	High	17.290	53.580	5.100	3.236	0.034493	1	PASS