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Maximum Permissive Exposure

FCC ID: 2ACFI32WM
EUT: Car Recorder
M/N: u818x; DC800x; SP32; u808x

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

2. MPE Calculation

Amino Communications 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

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm^2)
11g (DTS)	2412	9.25	8.41	2	1.58	0.00265
	2437	8.58	7.21	2	1.58	0.00227
	2462	8.05	6.38	2	1.58	0.00201
11n HT20 (DTS)	2412	9.36	8.63	2	1.58	0.00272
	2437	8.68	7.38	2	1.58	0.00233
	2462	8.10	6.46	2	1.58	0.00204
11n HT40 (DTS)	2422	9.55	9.02	2	1.58	0.00284
	2437	9.31	8.53	2	1.58	0.00269
	2452	8.80	7.59	2	1.58	0.00239

Based on safety distance (r) **20cm**, the antenna gain (G) is **2 Numerical**, and the highest power output (P) is 9.02**mW**, the power density (S) is **0.00284mW/cm^2**.