

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	CAMERA
Model Name	C6D
FCC ID	2AM6L-C6D

2. EVALUATION METHOD AND LIMIT

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

*Note:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

$$S = \frac{PG}{4\pi R^2}$$

Where:

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

3. CALCULATION

A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

BT(BR&EDR)

Antenna Gain=0.5dBi (Numeric 1.12), $\pi=3.14$

Frequency	Output Power	Output Power	Power Density	Power Density Limit
MHz	dBm	mW	mW/cm ²	mW/cm ²
2480	6.095	4.07	0.0009	1

BLE

Antenna Gain=0.5dBi (Numeric 1.12), $\pi=3.14$

Frequency	Output Power	Output Power	Power Density	Power Density Limit
MHz	dBm	mW	mW/cm ²	mW/cm ²
2480	2.276	1.69	0.0004	1

WIFI

Antenna Gain=0.5dBi (Numeric 1.12), $\pi=3.14$

Mode	Frequency	Output Power	Output Power	Power Density	Power Density Limit
	MHz	dBm	mW	mW/cm ²	mW/cm ²
802.11b	2412	13.63	23.07	0.0052	1
802.11g	2462	10.55	11.35	0.0025	1
802.11n20	2462	10.67	11.67	0.0026	1
802.11n40	2437	11.69	14.76	0.0033	1

WCDMA

WCDMA 850:Antenna Gain=0.75dBi (Numeric 1.19), $\pi=3.14$

WCDMA 1700:Antenna Gain=0.64dBi (Numeric 1.16), $\pi=3.14$

WCDMA 1900:Antenna Gain=0.60dBi (Numeric 1.15), $\pi=3.14$

Test Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Power Density mW/cm ²	Power Density Limit (mW/cm ²)
WCDMA 850 RMC	846.6	23.85	242.66	0.0574	0.5644
WCDMA 1700 RMC	1732.6	22.71	186.64	0.0430	1
WCDMA 1900 RMC	1852.4	22.75	188.36	0.0430	1

LTE

LTE band 2: Antenna Gain=0.60dBi (Numeric 1.15), $\pi=3.14$

LTE band 4: Antenna Gain=0.64dBi (Numeric 1.16), $\pi=3.14$

LTE band 5: Antenna Gain=0.75dBi (Numeric 1.19), $\pi=3.14$

LTE band 12: Antenna Gain=0.78dBi (Numeric 1.20), $\pi=3.14$

Test Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Power Density mW/cm ²	Power Density Limit (mW/cm ²)
LTE 1900 (15MHz)	1857.5	23.44	220.80	0.0505	1
LTE 1700 (15MHz)	1717.5	23.81	240.44	0.0555	1
LTE 850 (1.4MHz)	836.5	23.95	248.31	0.0587	0.5577
LTE 700 (5MHz)	701.5	23.96	248.89	0.0593	0.4677

Note: Only the worst case was recorded in the test report.

Power Density=0.0009+0.0052+0.0574+0.0593=0.1228mW/cm²<0.4677 mW/cm²