



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: Q3N-9700

Project No. : 1404142
Equipment : Mobile Computer
Model : 9700
Applicant : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan

According: : FCC Guidelines for Human Exposure IEEE C95.1

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

where:

S = power density

P = power input to the 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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		Note	
					2.4G	5G	2.4G	5G
1	CIPHERLAB	KX00000060113	Main Antenna	N/A	1.95	2.52	TX/RX	TX
2	CIPHERLAB	KX00000060122	Div Antenna	N/A	N/A	3.11	N/A	RX



TEST RESULTS

EUT :	Mobile Computer	Model Name :	9700
Temperature :	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11b /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.95	1.5668	12.9300	19.6336	0.006123	1	Complies
1.95	1.5668	14.0300	25.2930	0.007888	1	Complies
1.95	1.5668	14.9400	31.1889	0.009726	1	Complies

EUT :	Mobile Computer	Model Name :	9700
Temperature :	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11g /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.95	1.5668	18.2200	66.3743	0.020699	1	Complies
1.95	1.5668	18.4700	70.3072	0.021926	1	Complies
1.95	1.5668	20.8300	121.0598	0.037753	1	Complies

EUT :	Mobile Computer	Model Name :	9700
Temperature :	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11n (20MHz) /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.95	1.5668	18.8800	77.2681	0.024096	1	Complies
1.95	1.5668	18.6200	72.7780	0.022696	1	Complies
1.95	1.5668	20.2600	106.1696	0.033109	1	Complies



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EUT :	Mobile Computer	Model Name :	9700
Temperature :	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11a (5745~5825MHz)		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.52	1.7865	16.6100	45.8142	0.016291	1	Complies
2.52	1.7865	16.1600	41.3048	0.014688	1	Complies
2.52	1.7865	16.0300	40.0867	0.014254	1	Complies

EUT :	Mobile Computer	Model Name :	9700
Temperature :	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11n (5745~5825MHz)		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.52	1.7865	16.5400	45.0817	0.016031	1	Complies
2.52	1.7865	16.1300	41.0204	0.014586	1	Complies
2.52	1.7865	16.0300	40.0867	0.014254	1	Complies

The evaluated distance is 20cm.