



RF Exposure evaluation

Model: INFO3 CSM HIGH and INFO3 CSM MID

FCC ID: 2AHPN-BE2817

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310

Test limits

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure.

Frequency range (MHz)	Power density (mW/cm^2)
300 – 1,500	f/1500
1,500 – 100,000	1.0

Equation OET bulletin 65, page 18, edition 97-01:
$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

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

Following antenna gain values were considered as far as they apply:

Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Max Gain (dBi)
5160	55,73	-2,5391	5
5240	57,12	-2,4321	4,36
5320	62,09	-2,0698	4,47
5400	62,57	-2,0363	4,2
5480	60,01	-2,2178	3,96
5560	62,66	-2,0301	4,36
5640	57,28	-2,4200	3,8
5720	61,75	-2,0936	4,58
5840	59,52	-2,2534	4,2

2,4 GHz band

Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Max Gain (dBi)
2402	77,68	-1,0969	4,5
2441	78,18	-1,0690	4,89
2480	82,09	-0,8571	5,78

Band	Mode	Duty Cycle	Frequency (MHz)	Maximum Conducted output power (dBm)	Equivalent conducted output power (mW)	FCC MPE Limit (mW/cm ²)	MPE Value using Max gain	Separation distance (cm)	Verdict
Bluetooth	GFSK 1-DH1	100.0%	2441.0	1.3	1.35	1000	0.0010	20	PASS
WLAN 2.4 GHz, n-Mode; 20 MHz	72.2 Mbit/s	100.0%	2412	19.9	97.72	1000	0.074	20	PASS
WLAN a-Mode; 20 MHz	6 Mbit/s MCS0	100.0%	5755	13.3	21.38	1000	0.0123	20	PASS

Yours sincerely,



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