



RF Exposure evaluation for mobile use

Model: OBD 2.0 3G BT OBD 2.0 TETH

FCC ID: 2AHR8 OBD20

RF Exposure Evaluation

| Standards |
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| 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

| 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 of 2,7 dBi | Separation distance (cm) | Verdict |
|------|------|------------|-----------------|--------------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|---------|
| BLE | GFSK | 64.0% | 2440.0 | 8.0 | 6,31 | 1.0000 | 11,7 | 1 | Pass |

Yours sincerely,

Dirk Bratsch