FCC ID: 2AX5VFISMHTJ1UL

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

| Limits for | Maximum | Permissible | Exposure | (MPE) |
|------------|---------|---------------|----------|-------|
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| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) | | | |
|---|----------------------------------|----------------------------------|--|-----------------------------|--|--|--|
| (A) Limits for Occupational/Controlled Exposure | | | | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 | | | |
| 3.0-30 | 1842/1 | 4.89/1 | f *900/f ² | 6 | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | | |
| 300-1,500 | | | f/300 | 6 | | | |
| 1,500-100,000 | | | 5 | 6 | | | |
| (B) Limits for General Population/Uncontrolled Exposure | | | | | | | |
| 0.3-1.34 | 614 | 1.63 | *100 | 30 | | | |
| 1.34-30 | 824/1 | 2.19/1 | *180/f ² | 30 | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | | | |
| 300-1,500 | | | f/1500 | 30 | | | |
| 1,500-100,000 | | | 1.0 | 30 | | | |

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

$$\mathsf{E}(\mathsf{V/m}) = \frac{\sqrt{30 * P * G}}{d}$$
 Power Density: $Pd(\mathsf{W/m^2}) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 * P * G}{377 * D^{2}}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

Measurement Result

Operation Frequency: GFSK: 905 MHz~926.5MHz Antenna Type: Antenna Type: Inverted-F antenna Antenna gain: Antenna: 1 dBi R=20cm OCW=120KHz

| | Channel | | conducted power | Tune-up power (dBm) | Мах | | Antenna | | Evaluation result | Power density Limits |
|--|-------------|------------|-----------------|------------------------|---------------|--------|---------|---------|----------------------|-------------------------|
| | Freq. (MHz) | modulation | (dBm) | | tune-up power | | Gain | | (mW/cm2) | (mW/cm2) |
| | | | | | (dBm) | (mW) | (dBi) | Numeric | (IIIVV/CIIIZ) | (mvv/cmz) |
| | 905.00 | GFSK | 10.889 | 10.5±1 | 11.5 | 14.125 | 1.00 | 1.26 | 0.0035 | 0.60 |
| | 915.85 | GFSK | 10.512 | 10.5±1 | 11.5 | 14.125 | 1.00 | 1.26 | 0.0035 | 0.61 |
| | 926.5 | GFSK | 10.093 | 10±1 | 11 | 12.589 | 1.00 | 1.26 | 0.0032 | 0.62 |

Conclusion:

For the max result : 0.0035≤ 0.60 for Max Power Density, compliance RF exposure..

Alex

Signature:

Date: 2/2/2024

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