# Statement for RF Exposure

| | | |
|---|---|---|
| **Order No.** | **:** | **10329820H-A-R1** |
| **Applicant** | **:** | **DENSO CORPORATION** |
| **Type of Equipment** | **:** | **Millimeter Wave Radar Sensor** |
| **Model No.** | **:** | **DNMWR008** |
| **Test standard** | **:** | **FCC Part 15 Subpart C: 2014** |
| **Test result** | **:** | **Complied** |

**[FCC rule]**
**§1.1310 Radiofrequency radiation exposure limits.**
The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

**Table 1—Limits for Maximum Permissible Exposure (MPE)**

| 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 Exposures** | | | | |
| 0.3–3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0–30 | 1842/f | 4.89/f | *($900/f^2$) | 6 |
| 30–300 | 61.4 | 0.163 | 1.0 | 6 |
| 300–1500 | | | f/300 | 6 |
| 1500–100,000 | | | 5 | 6 |
| **(B) Limits for General Population/Uncontrolled Exposure** | | | | |
| 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 |

f = frequency in MHz
* = Plane-wave equivalent power density
Note 1 to Table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

**UL Japan, Inc.**
**Ise EMC Lab.**
**4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN**
**Telephone : +81 596 24 8999**
**Facsimile : +81 596 24 8124**

**[Results]**

| Mode | Peak EIRP | | Duty Factor | Average EIRP (Peak with Duty Factor) | |
|---|---|---|---|---|---|
| | [dBm] | [mW] | [dB] | [dBm] | [mW] |
| Operating mode | 30.29 | 1070.1 | -2.37 | 27.92 | 619.6 |

| Separation Distance | Power Density | |
|---|---|---|
| | Result | Limit |
| [cm] | [mW/cm2] | [mW/cm2] |
| 20 | 0.123 | 1 |

Calculating formula:

Average EIRP = Peak EIRP + Duty Factor
Power Density = Average EIRP / (4 * Pi * Separation Distance ^ 2)

These EIRP were measured in sufficient far field of 3m distance and calculated at 20cm.

**UL Japan, Inc.**
**Ise EMC Lab.**
**4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN**
**Telephone : +81 596 24 8999**
**Facsimile : +81 596 24 8124**