



## RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-4018/22-01-03\_MPE\_FCC

| Certification numbers and labeling requirements |          |
|-------------------------------------------------|----------|
| FCC ID                                          | NO9TC190 |

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## 1. MPE at given distance (KDB 447498 D01 General RF Exposure Guidance v06)

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

where: S = Power density  
 P = Power input to the antenna  
 G = Antenna gain  
 R = Distance to the center of radiation of the antenna  
 PG = Output Power including antenna gain

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure"

| Frequency Range (MHz) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minutes) |
|-----------------------|-------------------------------------|--------------------------|
| 300 -1500             | f/1500                              | 30                       |
| 1500 - 100000         | 1.0                                 | 30                       |

where f = Frequency (MHz)

## 2. EUT technologies

Declared minimum safety distance: **20 cm**

| SRD Technology | Frequency [MHz]  |                  | Reference # | Output Power [dBm] |                   |                     | Power Density [mW/cm <sup>2</sup> ] |                    | Share of Limit % |
|----------------|------------------|------------------|-------------|--------------------|-------------------|---------------------|-------------------------------------|--------------------|------------------|
|                | f <sub>Min</sub> | f <sub>Max</sub> |             | P <sub>ERP</sub>   | P <sub>EIRP</sub> | P <sub>RF Exp</sub> | S <sub>Result</sub>                 | S <sub>Limit</sub> |                  |
| DECT           | 1921.536         | 1928.448         | A, B        | N/A                | 22.9              | 22.9                | 0.04                                | 1.00               | 3.89%            |

Referenced Documents:

| # | Results from:                                   |
|---|-------------------------------------------------|
| A | Test Report 1-4018/22-01-02-A, p. 17            |
| B | Antenna Information (Antenna AA030001, 3.1 dBi) |

## 3. Conclusion

This prediction demonstrates the following:  
 The power density levels for FCC at a distance of 20 cm are below the maximum levels allowed by regulations.

**Conclusion:** RF exposure evaluation is not required.