RF exposure information for SAR test exclusion

The Emergency Pendant reader is classified as portable.
The Emergency Pendant includes transmitters operating according to FCC part 15 subpart C section 15.231 and section 15.247 (DTS).
The simultaneous transmission of 2 first above mentioned transmitters is not evaluated.

Maximum measurement transmitter power obtained from Test Report according to FCC part 15 subpart C section 15.247 (DTS):

Pout EIRP		Maximum antenna gain, dBi	Pout conducted	
dBm	mW		dBm	mW
0.18	1.04	-3.0	3.18	2.07

According to KDB 447498 D01 v05r02 section 4.3.1 the exemption limit for 100 MHz to 6 GHz at ≤ 5 mm distance is determined as follow:

[(max. power including tune-up tolerance, mW) / (min. test separation distance, mm)] x [√f(GHz)]
≤ 3.0 for 1-g whole body SAR

SAR test exclusion threshold for frequency 2462 MHz at minimum separation distance of 5 mm:

3 x 5 mm /(√2.480) = 9.55 mW

According to KDB 447498 D01 v05r02 the device is excluded from SAR evaluation.

Power calculation for Far-Field according to maximum measured Field strength at 3 m distance obtained from Test Report according to FCC part 15 subpart C section 15.231:

							*Far-field Formula**	
F,MHz	***d, m***	***λ, m***	***λ/2π, m***	***E, dBμV/m***	***E, V/m***	***Z_w, Ω***	***P, W***	***P, mW***
916.5	3	0.327332	0.05	86.4	0.02089	376.9	0.0001	0.1309

* $P = 4\pi r^2 \frac{E^2}{Z_o}$, $where\ Z = 120\pi$

SAR test exclusion threshold for frequency 916.5 MHz at minimum separation distance of 5 mm:

3 x 5 mm /(√0.9165) = 15.625 mW

According to KDB 447498 D01 v05r02 the device is excluded from SAR evaluation.