

RF EXPOSURE ANALYSIS

EQUIPMENT

Type of equipment: Resusci manikins
Type / Model: Resusci Junior QCPR
Brand name: Laerdal
Manufacturer: Laerdal Medical AS
By request of: Laerdal Medical AS

Operating frequencies: 2402 – 2480 MHz

REQUIREMENT

EN50663:2017
CFR 47 §1.1310
RSS-102 issue 5 (2015)

CALCULATIONS

Highest measured conducted output power is -3.1 dBm peak or 0.5 mW.

The internal antenna has a maximum antenna gain of -0.5 dBi; the EIRP is -3.6 dBm or 0.4 mW.

LIMITS & EVALUATIONS:

Standard	Reference for limit	Limit	Unit	Values	Result
EN 50663	EN62479 ¹	20	mW	0.4	PASS
CFR 47 §1.1310	KDB 447498 D01 ²	3	N/A	0.1	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015) ³	4	mW	0.4	PASS

Table 1

¹From Table A.1 for general public and head and trunk

²1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$. Test separation distance is taken as 5 mm and maximum power is 0.4 mW at 2.44 GHz.

³Section 2.5.1, table 1, based on a separation distance of 5 mm and frequency of 2450 MHz.

Summary:

All requirements are fulfilled

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