

RF Exposure requirements

Product name	Scan Tool
Model number	HDP
FCC ID	TMGG1QDDMM008
Radio specification	(Bluetooth) 2.4 GHz
Antenna	Internal antenna
Power source	DC 7 V to DC 18 V (DC 12 V battery in a vehicle)

According to the KDB 447498, the following standalone SAR test exclusion was considered to qualify for the SAR test exclusion.

Tx frequency range	2402 MHz - 2480 MHz
Maximum conducted output power	4.59 mW (6.62 dBm)
Device category	Mobile station

SAR test exclusion thresholds:

$[(\text{max. power of channel, mW}) / (\text{min. separation distance, mm})] \cdot \sqrt{f_{(\text{GHz})}} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$

MHz	5	10	15	20	25	29	30	35	40	45	50	test separation distance (mm)
2450	10	19	29	38	48	56	57	67	77	86	96	SAR test exclusion threshold (mW)

The source-based time-averaged maximum conducted output power of the RF channel is less than 10 mW, and the minimum separation distance of 5 mm can be achieved. Therefore the transmitter complies with the RF exposure requirements and the SAR is not required.