

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	1:24 RC Cat 950M Wheel Loader
Model Name	25003
FCC ID	2AUJF-25003

2. EVALUATION METHOD

According to 447498 General RF Exposure Guidance.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 5 mm are determined by:

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

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

According to the follow transmitter output power (P_t) formula :

According to the report NTC-ER2003020,

$P_t=83.84 \text{ dBuV/m} @ 3\text{m}=-11.39 \text{ dBm}$

The result for RF exposure evaluation

$\text{SAR} = (\text{max. tune-up power}(0.079\text{mW}) / 5\text{mm}) \cdot [\sqrt{2.41(\text{GHz})}] = 0.025 < 3.0 \text{ for 1-g SAR}$

4. CONCLUSION

The SAR evaluation is not required.