

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	1:24 RC Cat 745 Articulated Truck
Model Name	25004
FCC ID	2AUJF-25004

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 ≤ 5 mm are determined by:

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

$P_t = 83.84$ dBuV/m @3m = -11.39 dBm

The result for RF exposure evaluation

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

4. CONCLUSION

The SAR evaluation is not required.