



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	RC TOYS, RC ROBOT
Test Model	NX01
Series Model	09-039, 09-139, 09-839, 09-939, 2048, 2068, 2049, 2056A, 2059, 2069, 2079, 2089, 2099, 3086A, 1088, 2088, 3088, 4088, 5088, 6088, 7088, 8088, 9088, 4050A, 5050A, 6060A, 7070A, 8080A, 9090A, 2059S, 2069S, 2079S, 2089S, 3086S, 3066A, 3066B, 3066C, 18081, 18082, 18083, 18084, 18085, 18086, 18087, 18088, 18089, 18011, 18012, 18013, 18014, 18015, 18016, 18017, 18018, 18019, 8801, 8802, 8803, 8804, 8805, 303554, 303555, 303558, 303559
FCC ID	2AVY8-NX01

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

BT (BLE):

$P_t = 1.110 \text{ dBm} = 1.29 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (1.29 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.41 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BT (BR/EDR):

$P_t = -6.574 \text{ dBm} = 0.22 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.22 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.07 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Note: BR / BLE cannot be simultaneous transmitting.

4. CONCLUSION

The SAR evaluation is not required.

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