

# FCC RF Exposure

Product Name: Remote Control Car Series

FCC ID: 2ASUS-144001

Model(s): 144001, 10428-D/E, L959-A, A949, A959, A969, A979, A959-A, A969-A, A979-A, K929-A, A959-B, A969-B, A979-B, K929-B, A979-2, A979-3, K929, K969, K989, 18401, 18404, 18405, 18409, 18428, 18429, 2015-1A, 12428, 12428-A, 12428-B, 12428-C, 12423, 12427, 12427-A, 12427-B, 12427-C, 12429, 12402-A, 10428, 10428-A, 10428-B2, 16800, 14600-A, 14800-A, 22201, 322221, 104310, 104311, 124301, 124302, 104072, 104001, 104002, 104003, 104006, 104009, 104016, 104018, 104019, 124007, 124008, 124010, 124016, 124017, 124018, 124019, 144002, 144010, 184011, 184016, 2428, 284161, 284131, 284010, 144011, 104308, 104309, 124028, 124012, 124011, 124013, 184010, 184012, 184008, 104005, 104007, 104008, 104010, 104011, 104071, 104078, 104020, 104022, 104026, 104027, 104028, 104029, 104030, 124001, 124006, 124008, 124009, 124015, 124020, 124022, 124026, 124029, 124027, 144012, 144013, 144016, 144018, 144015, 144017, 144020, 144022, 144026, 144027, 144028, 144029, 144030, 184002, 184005, 184006, 184007, 184009, 184015, 184017, 184018, 184019, 184020, 184021, 184022, 184023, 184026, 184029, 184028, 282058, 282056, 282059, 284019, 284018, 284181, 284171, 22206, 22209, 22202, 22203, 2429, 2426, 242056, 242058, 244056, 244058, 164006, 164008, 164009, 204009, 204008, 204006

## 1. Limits

According to KDB 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  $\leq 50$  mm are determined by:

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

Where:

Result =  $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn - up power in mw

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

EIRP(dBm) = 90.66 (dBuV/m) - 95.2 = -4.54 (dBm)

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|-----------------|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| 2442            | -4.54              | -4 ± 1              | -3/0.5                   | 5                               | 0.156  | 3.0                         | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report HK2310094665-E, antenna gain = 2dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.156 which is  $\leq 3$ , RF Exposure testing is not required.

Note: Exclusion Thresholds Results =  $\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f_{\text{(GHz)}}}$

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

Distance = 5mm