

FCC RF Exposure

Product Name: RC/Racing Boat

FCC ID: 2ASUS-WL917

Model(s): WL917, WL911, WL912, WL913, WL914, WL915, WL916, WL918, WL919, WL920, WL911-A, WL912-A, WL913-A, WL914-A, WL915-A, WL916-A, WL917-A, WL918-A, WL919-A, WL920-A, WL922, WL923, WL924, WL925, WL926, WL927, WL928, WL929, WL930, WL931, WL933, WL934, WL935, WL936, WL937, WL938, WL939, WL940, WL941, WL942, WL955, WL956, WL957, WL958, WL959, WL960, WL961, WL962, WL963, WL964, WL966, WL967, WL968, WL969, WL970, WL971, WL972, WL973, WL974, WL975, WL977, WL978, WL979, WL980, WL981, WL982, WL983, WL984, WL985, WL986, WL988, WL989, WL990, WL991, WL992, WL993, WL994, WL995, WL996, WL997

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 ≤ 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:

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) = 89.34 (dBuV/m) - 95.2 = -5.86 (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 ²)	SAR Test Exclusion
2410	-5.86	-5 ± 1	-4/0.4	5	0.124	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report HK2310094666-E, antenna gain = 2.53dBi

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 0.124 which is ≤ 3 , RF Exposure testing is not required.

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

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

Distance = 5mm