

# 1. RF EXPOSURE EVALUATION

## Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1093 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

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

\*  $[\sqrt{f(\text{GHz})}]$

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|             | Average<br>Conducted Output<br>Power (dBm) | Target<br>power W/<br>tolerance<br>(dBm) | Max tune up<br>power tolerance<br>(dBm) | Maximum<br>Average Output<br>Power: mW | Separation<br>distance<br>mm | RF exposure |
|-------------|--|--|---|--|------------------------------|-------------|
| 802.11B     |  |  |   |  |                              |             |
| 2412        | 9.37                                       | 8.5±1.0                                  | 9.5                                     | 8.913                                  | 5                            | 2.768       |
| 2437        | 9.29                                       | 8.5±1.0                                  | 9.5                                     | 8.913                                  | 5                            | 2.744       |
| 2462        | 9.35                                       | 8.5±1.0                                  | 9.5                                     | 8.913                                  | 5                            | 2.885       |
| 802.11G     |  |  |   |  |                              |             |
| 2412        | 8.57                                       | 8.0±1.0                                  | 9.0                                     | 7.943                                  | 5                            | 2.467       |
| 2437        | 8.59                                       | 8.0±1.0                                  | 9.0                                     | 7.943                                  | 5                            | 2.446       |
| 2462        | 8.46                                       | 8.0±1.0                                  | 9.0                                     | 7.943                                  | 5                            | 2.571       |
| 802.11N(20) |  |  |   |  |                              |             |
| 2412        | 7.75                                       | 7.0±1.0                                  | 8.0                                     | 6.310                                  | 5                            | 1.960       |
| 2437        | 7.62                                       | 7.0±1.0                                  | 8.0                                     | 6.310                                  | 5                            | 1.943       |
| 2462        | 7.48                                       | 7.0±1.0                                  | 8.0                                     | 6.310                                  | 5                            | 2.043       |
| 802.11N(40) |  |  |   |  |                              |             |
| 2422        | 7.46                                       | 7.0±1.0                                  | 8.0                                     | 6.310                                  | 5                            | 1.964       |
| 2437        | 7.51                                       | 7.0±1.0                                  | 8.0                                     | 6.310                                  | 5                            | 1.943       |
| 2452        | 7.45                                       | 7.0±1.0                                  | 8.0                                     | 6.310                                  | 5                            | 2.003       |

The Max RF exposure is 2.885

Threshold at which no SAR required is  $\leq 3.0$  for 1-g SAR, Separation distance is 5mm.

### Conclusion:

So no SAR is required.