

1.0 Maximum Permissible Exposure Evaluation (Supplements the test report.)

The results of power measurement and intended use/proximity are compared against the requirements for safety of RF exposure.

1.2 Criteria

Section Reference	Date
2.1091, FCC OET Bulletin 65, KDB 447498 Section 4.3.1.1 RSS-102	2014-11-07

1.3 Procedure

Using measurement of peak power and intended application, determine the permissible exposure level or whether additional exposure tests (SAR) are indicated. Justify conclusion for selected exposure area and separation distance.

1.4 Exemption Calculation

A test separation distance of 5 mm has been applied to the SAR test exclusion calculation.

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

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

Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison.

$$[(6.12\text{mW})/(5, \text{ mm})] \cdot [\sqrt{2.45(\text{GHz})}] \leq 3.0$$

$$1.92 \leq 3.0$$

Therefore, the device meets the FCC SAR exemption requirements.

Based on the output power (6.12 mW eirp) being less than 20 mW, the device meets the IC SAR exemption requirements.
