

## **RF Exposure / MPE Calculation**

**No. : 32KE0041-HO-02**

**Applicant** : Sony Corporation  
**Type of Equipment** : Personal Computer (Bluetooth BDR/EDR)  
**Model No.** : SVD112A1WL  
**FCC ID** : AK8SVD112A1WL  
**IC Number** : 409B-SVD112A1WL

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Sony Corporation declares that Model : SVD112A1WL  
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable).

The “SVD112A1WL“ has 4.24 mW of conducted Average Output power and 5.59 mW of EIRP on Bluetooth BDR/EDR  
This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List)  
so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain  
antenna provided with the “SVD112A1WL“ as calculated  
from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled  
Exposure. This calculation is based on the highest EIRP possible from the system,  
considering maximum power and antenna gain, and considering a 1.0mW/cm<sup>2</sup> uncontrolled  
exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

**P = 4.24 mW (Maximum peak output power)**  
**G = 1.32 Numerical Antenna gain; equal to 1.20 dBi**  
**r = 20.0 cm**

For: SVD112A1WL

$$S = 0.00111 \text{ mW/cm}^2$$

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