

RF Exposure Evaluation

FCC ID: 2AA5C-FSR001

1. Client Information

Applicant : CviLux Corporation
Address : 9F., No.9, Lane 3, Sec 1, Chung-Cheng East Road, Tamshui, New Taipei City, 25147 Taiwan
Manufacturer : CviLux Corporation
Address : 9F., No.9, Lane 3, Sec 1, Chung-Cheng East Road, Tamshui, New Taipei City, 25147 Taiwan

2. General Description of EUT

EUT Name	:	3in1 Cloud Storage Box
Models No.	:	FSR001
Model Difference	:	N/A
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz
	:	Number of Channel: 802.11b/g/n(HT20):11 channels 802.11n(HT40):7 channels <i>see note(3)</i>
	:	Max Peak Output Power: 802.11b: 9.59 dBm 802.11g: 9.18 dBm 802.11n(HT20): 9.52 dBm 802.11n(HT40): 9.57 dBm
	:	Antenna Gain: 0 dBi Chip Antenna
	:	Modulation Type: GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery
Power Rating	:	DC 5.0V by USB cable DC 3.7V 3200mAh Li-ion Battery
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

More test information about the EUT please refer the RF Test Report.

MPE Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05R01.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 50 mm are determined by:

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

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

Calculation:

The maximum power is 9.59 dBm(9.099mW) @2.462GHz

Separation Distance: 5mm

For 1-g SAR Result: $(9.099\text{mW} / 5\text{mm}) \cdot [\sqrt{2.462(\text{GHz})}] = 2.855 < 3.0$ for 1-g SAR

So standalone SAR measurements are not required.