



RF Exposure Evaluation

FCC ID: 2AV6Y-AT70K

1. Client Information

Applicant	:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address	:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an District, Shenzhen City, China
Manufacturer	:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address	:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an District, Shenzhen City, China

2. General Description of EUT

EUT Name	:	Kids Tablet	
Model(s) No.	:	AT70K	
Model Difference	:	----	
Product Description	:	Operation Frequency:	Bluetooth 4.2: 2402MHz~2480MHz Bluetooth 4.2(BLE): 2402MHz~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz
		Number of Channel:	Bluetooth 4.2: 79 channels Bluetooth 4.2(BLE):40 channels 802.11b/g/n(HT20):11 channels
		Antenna Gain:	1.24dBi FPC Antenna
Power Supply	:	For Adapter (Model: FX2U-050200U) Input: 100-240V~ 50/60Hz 0.4A max Output: 5V=2A	
Li-ion Polymer Battery	:	3.85V by 3000mAh Rechargeable Li-ion battery	
Software Version	:	AT70K-2024-0102	
Hardware Version	:	S863T-7731E-V2.0-C	

Remark:

- (1) The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(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 ≤ 5 mm are determined by:

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

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



2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	6.105	6±1	7	5.012	1.554	3.0
2.441	4.824	5±1	6	3.981	1.244	3.0
2.480	4.062	4±1	5	3.162	0.996	3.0
Bluetooth Mode (Pi/4-DQPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	6.107	6±1	7	5.012	1.554	3.0
2.441	5.276	5±1	6	3.981	1.244	3.0
2.480	4.747	5±1	6	3.981	1.254	3.0
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	6.546	7±1	8	6.310	1.956	3.0
2.441	5.356	5±1	6	3.981	1.244	3.0
2.480	4.646	5±1	6	3.981	1.254	3.0
Bluetooth LE Mode(1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.257	-2±1	-1	0.794	0.246	3.0
2.440	-2.406	-2±1	-1	0.794	0.248	3.0
2.480	-3.113	-3±1	-2	0.631	0.199	3.0



Test separation: 5mm						
2.4G Wi-Fi 802.11b						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.958	8±1	9	7.943	2.467	3.0
2.437	8.300	8±1	9	7.943	2.480	3.0
2.462	8.057	8±1	9	7.943	2.493	3.0
2.4G Wi-Fi 802.11g						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.994	8±1	9	7.943	2.467	3.0
2.437	8.729	8±1	9	7.943	2.480	3.0
2.462	7.739	7±1	9	7.943	2.493	3.0
2.4G Wi-Fi 802.11n20						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.140	7±1	8	6.310	1.960	3.0
2.437	6.750	6±1	8	6.310	1.970	3.0
2.462	6.379	6±1	7	5.012	1.573	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF REPORT-----

