

RF Exposure Report

FCC ID: 2ALWFCV-T100C

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Air cleaner
Model Name	CV-T100C
Additional Model Number(s)	CV-T100B, CV-T100M, CV-T100S, CV-T100W, CV-T100N, CV-T100D, CV-T100RF, CV-T100ED, CV-T100P, CV-T100H, CV-T100Z, CV-T100G, CV-T100FX
Model Difference	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.
Frequency Range	Bluetooth 4.0(BLE): 2402~2480 MHz
Number of Channel:	40 Channels
Modulation Type	GFSK
RF Output Power	3.884 dBm
Antenna Type	Chip Antenna (Gain: 3.25dBi)
Power Source	DC Voltage supplied from AC/DC Adapter.
Power Rating	Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 2.5A
Remark	More details EUT technical specifications, please refer to the User's Manual.

2. RF EXPOSURE INFORMATION

SAR Test Exclusion Calculations

2.1 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 distances ≤ 5 mm are determined by:

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

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

2.2

Calculation:

BLE Mode						
GFSK(1Mbps)						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	MAX Power of Turn-up Tolerance (mW)	Calculation Value	Threshold Value
2402	3.793	3 $\pm$ 1	4	2.512	0.779	3.0
2442	3.884	3 $\pm$ 1	4	2.512	0.785	3.0
2480	3.704	3 $\pm$ 1	4	2.512	0.791	3.0

So standalone SAR measurements are not required.

*****END OF REPORT*****