

FCC RF Exposure

EUT Description: IP Camera Tester

Model No.: X9-MOVTADHS

FCC ID: 2A7OB-X9-MOVTADHS

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

Where:

Result = $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mw

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
2.4GWIFI	8.32	7.5±1(8.5)	7.079	5	2.199	3.0	Pass
5.2GWIFI	7.78	7±1(8)	6.310	5	2.889	3.0	Pass
5.8GWIFI	6.61	6±1(7)	5.012	5	2.411	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report **HK2207123022-1E/2E/3E**

2.4GWIFI antenna gain = 2dBi

5GWIFI antenna gain = 2dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.889 which is ≤ 3 , SAR testing is not required.

Note: Exclusion Thresholds Results = $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

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

Distance = 5mm

Note: the device could not transmit simultaneously in 2.4G and 5G.