

FCC RF Exposure

EUT Description: Digital Camera

Model No.: DC209X

FCC ID: 2BNYY-DC209X

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

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power (dBm/mW) | Min test separation distance (mm) | Result | Limit | SAR Test Exclusion |
|-----------------|--------------------|---------------------|----------------------------|-----------------------------------|--------|-------|--------------------|
| 2412 | 8.19 | 7.5 ± 1 | 8.5/7.079 | 5 | 2.199 | 3.0 | Pass |
| 5745 | 6.44 | 6 ± 1 | 7/5.012 | 5 | 2.403 | 3.0 | Pass |

Note:

PK Output power= conducted power.

Conducted power see the test report HK2502210707-1E/2E,

2.4GWIFI:antenna gain=1.46dBi;

5.8GWIFI:antenna gain=1.40dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 2.403 which is ≤ 3 , RF Exposure 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.