

FCC RF Exposure

EUT Description: Smart power switch

Model No.: ZEN15 800

FCC ID: 2AZ2V-ZEN15800

1. Limits

In accordance with KDB447498D01V06 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0.

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

2. Test Result of RF Exposure Evaluation

908.40MHz:

EIRP(dBm)=89.89(dBuV/m)-95.2=-5.31(dBm)

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
908.40	-5.31	-5±1(-4)	0.4	-1.27	0.75	0.00006
912	7.82	7±1(8)	6.31	-1.27	0.75	0.00094

$$Pd = \frac{Pout * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2307193129-1E/2E**, Gantenna gain=-1.27dBi.

When the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.00094mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.