RF ExposureReport

FCC ID: 2AEPYN2

TheEUT is NextD Smart TV Player with Wi-Fi function.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time |E|^2,|H|^{2}or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time |E|^2,|H|^2 or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz

MPE calculation method

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2}$$

S:power density mW/ cm^2;
P:power input to the antenna in mW;
g: numeric gain of antenna;
r: distance to centre of radiation in cm

Calculatedresult

Mode	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Output power to antenna (mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm²)	Limit (mW/cm²)	Result
802.11a	14.39±1.0	15.39	34.59	1(0dBi)	0.006885	1.0	Pass
802.11n 20MHz	12.24±1.0	13.24	21.09	1(0dBi)	0.004198	1.0	Pass
802.11ac 20MHz	12.65±1.0	13.65	23.17	1(0dBi)	0.004612	1.0	Pass

Note1: the antenna gain is 0dBi;

Note2: Calculated distanceis 20cm, whichis declared by the manufacture.