

Technical Description

The equipment under test (EUT) is a ECLIPSE 5.1.2 SOUNDBAR + WIRELESS SUBWOOFER with Bluetooth FHSS technology operating and SRD 2.4GHz function in 2402-2480MHz. The EUT is powered by AC 100-240V~ 50/60Hz. For more detail information pls. refer to the user manual.

Bluetooth function:

Bluetooth Version: 5.1 EDR

Antenna Type: Integral antenna

Antenna Gain: 2.37 dBi max

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK

The nominal conducted output power specified: 6dBm (+/-2dB).

The nominal radiated output power (e.i.r.p) specified: 8.37dBm (+/- 2dB).

Bluetooth Channel List for 5.1 EDR

2402	2403	2404	2405	2406	2407	2408	2409	2410
2411	2412	2413	2414	2415	2416	2417	2418	2419
2420	2421	2422	2423	2424	2425	2426	2427	2428
2429	2430	2431	2432	2433	2434	2435	2436	2437
2438	2439	2440	2441	2442	2443	2444	2445	2446
2447	2448	2449	2450	2451	2452	2453	2454	2455
2456	2457	2458	2459	2460	2461	2462	2463	2464
2465	2466	2467	2468	2469	2470	2471	2472	2473
2474	2475	2476	2477	2478	2479	2480		

SRD 2.4 transmitter:

Type of Modulation: GFSK

Antenna Type: Integral Antenna

Antenna Gain: 2.47dBi

The nominal conducted output power specified: 4(+/-2dB)

The nominal radiated output power (e.i.r.p) specified: 6.47(+/-2dB)

Channel List for SRD 2.4 transmitter

2402	2403	2404	2405	2406	2407	2408	2409	2410
2411	2412	2413	2414	2415	2416	2417	2418	2419
2420	2421	2422	2423	2424	2425	2426	2427	2428
2429	2430	2431	2432	2433	2434	2435	2436	2437
2438	2439	2440	2441	2442	2443	2444	2445	2446
2447	2448	2449	2450	2451	2452	2453	2454	2455
2456	2457	2458	2459	2460	2461	2462	2463	2464
2465	2466	2467	2468	2469	2470	2471	2472	2473
2474	2475	2476	2477	2478	2479	2480		

The function of mainboard is mentioned as below.

- 1) U4 (IC-IT66322) is a one to two HDMI IC.
- 2) Y1 is a 27.000MHz oscillator for U4.
- 3) BT1(IC-AC6954ARF) is the BT module.
- 4) UM1 (AC6854A) is a BT chip
- 5) YM1 is a 24.000MHz oscillator for UM1.

The function of SPA300_ATMOS module IC is mentioned as below.

- 1) U1(SPA300) acts as ATMOS Modules.
- 2) X1 is a 24.576MHz oscillator for U1(SPA300).

In the 2.4GHz wireless module.

- 1) U1(TLSR9515H) acts as 2.4GHz RF chip.
- 2) Y1 is a 24MHz oscillator for U1(TLSR9515H).