FCC ID : 2ALVK-HANP35T

➢ Test Standards and Limits

1. According to KDB 447498 D01 v06, Section 4.3.1

2. FCC Radiofrequency radiation exposure limits:

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:
[(max power of channel)/(min test separation distance)]*[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
• f(GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm
• The result is rounded to one decimal place for comparison
• 3.0 and 7.5 are referred to as the numeric thresholds
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation
distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
For 2.4G band device, the limit of worse case is
P_{max}≤3.0*D_{min})/ f =3.0*5/ 2.480 =9.525mW

➢ Measurement and Calculation

1. Maximum transmit power

Antenna Gain: -0.86 dBi

Operation Mode	Moduletion	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)
Bluetooth DTS_1M	GFSK	0	2402	4.50
		19	2440	4.66
		39	2480	4.61
Bluetooth DTS_2M	GFSK	0	2402	4.63
		19	2440	4.80
		39	2480	4.81
Bluetooth DSS	GFSK	0	2402	-3.62
		39	2441	-3.25
		78	2480	-2.67
	π/4-DQPSK	0	2402	-3.45
		39	2441	-2.86
		78	2480	-2.29

2. MPE Calculation

The Max Conducted Peak Output Power is 4.81 dBm.
The Max Antenna Gain is -0.86 dBi.

According to the formula. calculate the EIRP test result:
EIRP= P x G = 3.03 mW x 0.82 = 2.48mW < 9.525mW

So the SAR report is not required.

-End of the Report-