FCC RF Exposure

EUT Description: bluetooth headset

Model No.: X16PRO, A520, A8, BQ10, M38, X18, X20, X25, X28, X30, X50, X80, L11, L12S, CY-02, SKY-9, SKY-3, R12, R15, S20, W16, M39, G36, G38, G39, K20, K10, S1, TG09, V8, J09, X10Pro, YD01, YD02

FCC ID: **2A9NR-X16PRO**

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: [(max power of channel, including tune‐up tolerance, mW)/(min. test separation distance, mm)] •[$\sqrt{f(GHz)}$]≤3.0 for 1‐g SAR and ≤ 7.5 for 10‐g extremity SAR,

Where:

Result=P/D* $\sqrt{F}$

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 (mW/cm^2)	SAR Test Exclusion
EDR: 2402	0.54	0±1	1/1.26	5	0.391	3.0	Pass
BLE: 2402	-2.4	-2±1	-1/0.794	5	0.246	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report **HK2211295394-1E/2E**, antenna gain=2.67dBi							

Per KDB 447498 D01, when the minimum test separation distance is < 5mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.391 which is<= 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[$\sqrt{f_{(GHz)}}$]

f$_{(GHz)}$ is the RF channel transmit frequency in GHz

Distance=5mm