

FCC ID: 2AJWY-XK6-RX

RF EXPOSURE EVALUATION

EUT Specification

EUT tek unbotek Anbe	Access Control					
Anbotek Anbotek An	XK6-RX, XK5-RX, X5-RX, X6-RX, S5-X, S6-X, S9-X, S9, CR9-R, CR9-RX, CR9, CK9-R EM, CK9-R MF, CK9-R,					
Model Name	CK9-RX, CK9, CR4, CR5, CR6, CH4, CH5, CH6, CF4,					
	CF5, CF6, CHD4, CHD5, CHD6, CFD4, CFD5, CFD6, CK4,					
the spotek Anboit	CK5, CK6, SK13, SK14, H4-KEY					
Frequency band	WLAN: 2.412GHz ~ 2.462GHz					
(Operating)	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz					
	WLAN: 5.745GHz ~ 5825GHz					
	⊠ Others(13.56MHz, 125KHz)					
Device category	⊠Portable (<20cm separation)					
otek Anbote Ant	☐ Mobile (>20cm separation)					
	Others					
Antenna diversity	☐ Single antenna					
Anbote, Ant stek ant	Multiple antennas					
	Tx diversity					
	\Box Rx diversity					
	□ Tx/Rx diversity					
Max. output power	13.56MHz: 56.01 dBuV/m (-39.248dBm)(0.00012 mW) 125KHz: 56.85 dBuV/m (-38.408dBm)(0.00014mW)					
botek Anbor An Lote						
Antenna gain	0 dBi					
Evaluation applied	MPE Evaluation					
Anbor K hotek a	SAR Evaluation					

Standard Requirement

Portable Device

According to §15.247(i) and §1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance V6, section 4.3.1.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 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,¹⁶ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17

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Anbotek Product Safety

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• The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion.

Measurement Result

Channel Frequency	Max Output power	Max tune-up tolerance	Max Output power	Max Output power	Calculation Value (Note 1)	Threshold Value
(GHz)	(dBm)	Output power (dBm)	(dBm)	(mW)	Anbore A	Anbotek Anbote
0.01356	-39.248	-39.248±1	-38.248	0.00015	0.000003	3.0
0.000125	-38.408	-38.408±1	-37.408	0.00018	0.0000004	3.0

E = EIRP - 20log D + 104.8

where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP=E-104.8+20logD=56.01 -104.8+20log3= -39.248dbm

Note 1: Calculation Value =[(max. power of channel, mW)/(min.

test separation distance, mm)] • [$\sqrt{f(GHz)}$].

Fox example: 0.00015/5* √ 0.01356= 0.000003 ≤3.0

EIRP=E-104.8+20logD=56.85 -104.8+20log3=-38.408dbm Note 1: Calculation Value =[(max. power of channel, mW)/(min. test separation distance, mm)] • [√ f(GHz)].

Fox example: $0.00018/5^* \sqrt{0.000125} = 0.0000004 \leq 3.0$

According to KDB447498 D01 V6, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.

The SAR measurement is not necessary.

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