

MAXIMUM PERMISSIBLE EXPOSURE

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

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)

EUT Specification

FCC ID	2ASCB-DF6511SP
EUT K Anboten Anto	65inch Floor Standing Digital Signage, IR Touch
Frequency band	BT: 2.402GHz ~ 2.480GH
(Operating)	WLAN: 2.412GHz ~ 2.462GHz
Anboten Anu	🖾 RLAN: 5.180GHz ~ 5.240GHz
	🖾 RLAN: 5.260GHz ~ 5.320GHz
	RLAN: 5.500GHz ~ 5.700GHz
	🖾 RLAN: 5.745GHz ~ 5.825GHz
nbotek Anbo ak hot	Others:
Device category	□Portable (<20cm separation)
Anti- otek Anbotek Ant	Mobile (>20cm separation)
Anbo ek sootek	Others
Exposure classification	□Occupational/Controlled exposure
itek Anboten Ano	General Population/Uncontrolled exposure
Antenna diversity	Single antenna
	☐Multiple antennas
	☐Tx diversity
	☐Rx diversity
hotek Anbote P	☐Tx/Rx diversity
Max. output power	BLE: 8.00 dBm (0.0063W)
ter Anbo ek abotek	WiFi 2.4G: 17.77 dBm (0.0598W)
	WiFi 5.2G: 16.10 dBm (0.0407W)
	WiFi 5.3G: 15.56 dBm (0.0360W)
	WiFi 5.6G: 15.16 dBm (0.0328W)
Anbors Ann wotek	WiFi 5.8G: 15.55 dBm (0.0359W)
Antenna gain (Max)	BLE: 4.92dBi
ek nbotek Anbo	WiFi 2.4G: 4.92dBi
	WiFi 5.2G: 5.06dBi
	WiFi 5.3G: 5.17dBi
	WiFi 5.6G: 5.21dBi
	WiFi 5.8G: 5.28dBi
Evaluation applied	
Anbo	

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Limits for Maximum Permissible Exposure(MPE)

	10 PT		1							
y.	Frequency	Electric Field	Magnetic Field	Power Density	Average					
d	Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm ²)	Time					
	(A) Limits for Occupational/Control Exposures									
s.0	300-1500	Anbore Ant	dels - obotels	F/300	et 6 noor					
	1500-100000	ng ^{volov} ,	to the the	Anbor 5	det 6 abote					
(B) Limits for General Population/Uncontrol Exposures										
ţ.	300-1500	N. pr.	anbotan Ant	F/1500	30					
4	1500-100000	upote Ann 18%	the the series	1	xx ¹⁰ 30					
- Street										

Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in Mw

G= gain of antenna in linear scale

Pi=3.1416

R= distance between observation point and center of the radiator in cm Pd the limit of MPE. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Max Measurement Result

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
probus of	dBm)	(dBm)	(dBm)	(dBi)	(mW/cm ₂)	(mW/cm ₂)
MAR BLE	8.00	8.00 ±1	9.00	4.92	0.0049	Noto-
WiFi 2.4G	17.77	17.77 ±1	18.77	4.92	0.0466	pro Jok
WiFi 5.2G	16.10	16.10 ±1	17.10	5.06	0.0327	Pri ^{te} 1
WiFi 5.3G	15.56	15.56 ±1	16.56	5.17	0.0296	۹۲
WiFi 5.6G	15.16	15.16 ±1	16.16	5.21	0.0273	18 ^K 18 ^{20°°}
WiFi 5.8G	o ^{x2} 15.55 xx ²⁵	15.55 ±1	16.55	5.28	0.0303	porek 1 propor

The ratios cannot simultaneous transmission.

Result: No Standalone SAR test is required.

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