

RF EXPOSURE EVALUATION

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

EUT DIGITAL PIANO Frequency band (Operating)	Aupotek
Frequency band (Operating) 🗵 BT: 2.402GHz ~ 2.480GHz	Anbo
	7,0
	iek Aupo
□ RLAN: 5.180GHz ~ 5.240GHz	101 101
□ RLAN: 5.260GHz ~ 5.320GHz	Upor A.
☐ RLAN: 5.500GHz ~ 5.700GHz	Aupolen
☐ RLAN: 5.745GHz ~ 5.825GHz	sporek
Others:	Alla
Device category ☐ Portable (<20cm separation) ☐ Mobile (>20cm separation)	Ando
⊠ Mobile (>20cm separation)	tek Anbok
Others Dothers	101
Exposure classification	'upo, k
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	10h "
Antenna diversity ⊠ Single antenna	Auporek
☐ Multiple antennas	b. Otek
☐ Tx diversity	Ano
☐ Rx diversity	otek Aupo
☐ Tx/Rx diversity	16k
Antenna gain (Max) 1.9dBi	Aupo
Evaluation applied	Anbols
SAR Evaluation	abotek





Limits for Maximum Permissible Exposure(MPE)

	W.L.	1.07	O V	10 U					
Frequency	Electric Field	Magnetic Field	Average						
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time noon					
(A) Limits for Occupational/Control Exposures									
300-1500	Potek - Aupo	W. Tek	F/300	6					
1500-100000	Vun	upotek Anbo	5 otek	Anbor 6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500	ALPOPO.	VIII.	F/1500	6 botek					
1500-100000	iek - upotek	Aupo	hotek 1 Anbore	30					

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, 1mW/cm2. 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 u		Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
"Otek Aupotek	(dBm)	(dBm)	dne	(dBm)	(dBi)	(mW/ cm2)	(IIIVV/CIIIZ)
BDR&EDR	-1.79 💉	-1.79	±1	-0.79	An 1.9	0.0003	Albolek
Anbo BLE	-2.69	-2.69	±1	-1.69	1.9	0.0002	k 1 mbotek

Result: No Standalone SAR test is required.

