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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

2BBP3-BANDIT
Bandit
BT: 2.402GHz ~ 2.480GHz
UWLAN: 2.412GHz ~ 2.462GHz
RLAN: 5.180GHz ~ 5.240GHz
RLAN: 5.260GHz ~ 5.320GHz
🗆 RLAN: 5.500GHz ~ 5.700GHz
RLAN: 5.745GHz ~ 5.825GHz
⊠ Others: 903.5-926.9MHz
□ Portable (<20cm separation)
Mobile (>20cm separation)
Others Man
□ Occupational/Controlled exposure (S = 5mW/cm2)
General Population/Uncontrolled exposure (S=1mW/cm2)
Single antenna
☐ Multiple antennas ☐ Tx diversity
□ Tx diversity
Rx diversity
Tx/Rx diversity
1.35dBi
MPE Evaluation
SAR Evaluation

Shenzhen Anbotek Compliance Laboratory Limited

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Anbotek Product Safety

Limits for Maximum Permissible Exposure(MPE)

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Frequency	Electric Field	Magnetic Field	Power noter	Average
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time
Ann	(A) Limits for (Occupational/Contro	ol Exposures	otek An
300-1500	botek - Anbo	Am Am	F/300	6
1500-100000	Ann	abotek - Anbo	5 otek	Anbor 6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	Arthote.	And	F/1500	6 botek
1500-100000	rek - nbotek	Anbo	botek 1 Anboro	30
N NO	h.	No.	VIII	19.

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

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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.

Power Measured Max. Tune Antenna Tune up Power density at Operating Power tolerance up Power Gain density Limits Mode 20cm (mW/cm2) (mW/cm2)(dBm) (dBi) (dBm) (dBm) 29.860 0.3309 SRD 29.860 ±1 30.860 1.35 0.6024

Max Measurement Result

Note: The 4 antennas cannot transmit at the same time. For example, when using antenna 1, only antenna 1 can transmit. During the test, pre-scan all antennas, only the worst case(antenna 4) is recorded in the report.

Result: No Standalone SAR test is required.

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