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Maximum Permissible Exposure Evaluation

FCC ID: 2APPZ-V64

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

Product Name:	Prime Business Phone
Trade Mark:	Fanvil
Model/Type reference:	V64
Listed Model(s):	/
Frequency band (Operating)	BLE: 2.402GHz ~ 2.480GHz BT: 2.402GHz ~ 2.480GHz WLAN: 2.412GHz ~ 2.462GHz RLAN: 5.150GHz ~ 5.250GHz RLAN: 5.725GHz ~ 5.850GHz
Device category	<input type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input checked="" type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S=5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Antenna gain	2.4GHz: 5.0dBi 5GHz WIFI: 5.8dBi
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

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Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm^2

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE $1mW/cm^2$. 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.

Measurement Result

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)
GFSK	2441	5.00	6.07	6 ± 1	7	0.00315	1.000
$\pi/4$ -DQPSK	2441	5.00	5.61	6 ± 1	7	0.00315	1.000
8-DPSK	2402	5.00	5.90	6 ± 1	7	0.00315	1.000
GFSK (BLE)	2402	5.00	5.42	5 ± 1	6	0.00250	1.000
WLAN 802.11b	2462	5.00	15.60	15 ± 1	16	0.02505	1.000
WLAN 802.11g	2437	5.00	16.14	16 ± 1	17	0.03153	1.000
WLAN 802.11n(HT20)	2437	5.00	16.87	17 ± 1	18	0.03970	1.000
RLAN U-NII-1 802.11a	5240	5.80	16.04	16 ± 1	17	0.03791	1.000
RLAN U-NII-1 802.11n(HT20)	5240	5.80	15.80	16 ± 1	17	0.03791	1.000
RLAN U-NII-1 802.11n(HT40)	5230	5.80	15.41	15 ± 1	16	0.03011	1.000
RLAN U-NII-1 802.11ac(VHT20)	5240	5.80	15.79	16 ± 1	17	0.03791	1.000
RLAN U-NII-1 802.11ac(VHT40)	5230	5.80	8.95	9 ± 1	10	0.00756	1.000
RLAN U-NII-1 802.11ac(VHT80)	5210	5.80	9.85	9 ± 1	10	0.00756	1.000
RLAN U-NII-3 802.11a	5745	5.80	14.26	14 ± 1	15	0.02392	1.000
RLAN U-NII-3 802.11n(HT20)	5745	5.80	14.07	14 ± 1	15	0.02392	1.000
RLAN U-NII-3 802.11n(HT40)	5755	5.80	13.97	14 ± 1	15	0.02392	1.000
RLAN U-NII-3 802.11ac(VHT20)	5745	5.80	13.95	14 ± 1	15	0.02392	1.000
RLAN U-NII-3 802.11ac(VHT40)	5755	5.80	7.75	8 ± 1	9	0.00601	1.000
RLAN U-NII-3 802.11ac(VHT80)	5775	5.80	10.27	10 ± 1	11	0.00952	1.000

Note:

For a more detailed features description, Please refer to the RF Test Report.

*****THE END*****

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