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FCC RF Exposure

EUT Description: carplayer

Model No.: 8015, 7009, 7039, 7040, 7047, 7048, 7056, 7060, 7056, 7066, 7078, 7079, 7086, 7088, 7080, 7081,

7082,7106,7109,7112,7118,7260,7261,8026,8402,9018,9020,9028,8402,10101

FCC ID: 2BFZK-8015

Equipment type: mobile device

1. Limits

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limit	ts for Occupational/Controlled E	xposures	
0.3-3.0	614	1.63	*(100) 6	
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500-100,000			5	6
	(B) Limits fo	r General Population/Uncontroll	led Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

F = frequency in MHz

Formula: Pd = (Pout*G)/($4* \pi *r^2$)

Where:

 $Pd = power density in mW/cm^2$,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 $\pi = 3.14$;

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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3. Test Result of RF Exposure Evaluation WIFI

VIII 1	Output power	Antenna	Power Density	Limit	Result
	(dBm/mW)	Gain(dBi)	at R=20cm (mW/cm²)	(mW/cm²)	
U-NII 1 802.11a	6.35/4.32	4.41	0.00237	1.0	Pass
U-NII 1 802.11n(HT20)	6.30/4.27	4.41	0.00235	1.0	Pass
U-NII 1 802.11n(HT40)	7.25/5.31	4.41	0.00292	1.0	Pass
U-NII 1 802.11ac(HT20)	6.31/4.28	4.41	0.00235	1.0	Pass
U-NII 1 802.11ac(HT40)	7.28/5.35	4.41	0.00294	1.0	Pass
U-NII 1 802.11ac(HT80)	2.27/1.69	4.41	0.00093	1.0	Pass
U-NII 3 802.11a	13.07/20.27	4.41	0.01114	1.0	Pass
U-NII 3 802.11n(HT20)	13.24/21.08	4.41	0.01158	1.0	Pass
U-NII 3 802.11n(HT40)	7.65/5.82	4.41	0.00320	1.0	Pass
U-NII 3 802.11ac(HT20)	13.09/20.37	4.41	0.01119	1.0	Pass
U-NII 3 802.11ac(HT40)	7.58/5.73	4.41	0.00315	1.0	Pass
U-NII 3 802.11ac(HT80)	10.79/11.99	4.41	0.00659	1.0	Pass



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EIRP=EMeas+20log(dmeas)-104.7

EIRP is the equivalent isotropically radiated power,

EMeas in dBmis the field strength of the emission at the measurement distance, in dB u V/m

dмeas is the measurement distance, in m

ВТ

Field	EIRP(dBm)	Max	Antenna	Power	Limit	Result
strength(dBuV/m)		tune-up(mW)	Gain(dBi)	Density	(mW/cm ²)	
				at R=20cm		
				(mW/cm ²)		
89.39	-5.7676	0.2650	1.96	0.00008	1.0	Pass
88.33	-6.8276	0.2076	1.96	0.00006	1.0	Pass
90.43	-4.7276	0.3367	1.96	0.00011	1.0	Pass

BT+WIFI:0.00011+0.01158=0.01169 < 1

Conclusion: No SAR is required