

FCC RF Exposure

EUT Description: DashView

ModelNo.: GV1

FCC ID: 2BB5A-GV1

Equipment type: Mobile device

Test procedures according to the technical standards: KDB 447498 D01 V06 and FCC 2.1091.

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) Limits for Occupational/Controlled Exposures				
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 for General Population/Uncontrolled 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: $Pd = (P_{out} * G) / (4 * \pi * r^2)$

Where :

Pd = power density in mW/cm²,

P_{out} = 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 is 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.

3. Test Result of RF Exposure Evaluation

WIFI

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna gain numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
802.11b	2412	15.33	34.11	3.15	2.065	0.014020133	1
	2437	15.42	34.83	3.15	2.065	0.014316073	1
	2462	15.54	35.80	3.15	2.065	0.014714769	1
802.11g	2412	14.41	27.60	3.15	2.065	0.011344347	1
	2437	15.24	33.42	3.15	2.065	0.013736525	1
	2462	15.29	33.81	3.15	2.065	0.013896825	1
802.11n	2412	14.48	28.05	3.15	2.065	0.011529309	1
	2437	14.70	29.51	3.15	2.065	0.012129409	1
	2462	14.77	29.99	3.15	2.065	0.012326702	1

BLE

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna gain numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
GFSK	2402	3.15	2.65	3.15	2.065	0.001089222	1
	2440	2.90	1.95	3.15	2.065	0.000801503	1
	2480	2.27	1.69	3.15	2.065	0.000694636	1

BT

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna gain numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
GFSK	2402	3.26	2.12	3.15	2.065	0.000871377	1
	2441	3.12	2.05	3.15	2.065	0.000842605	1
	2480	2.91	1.95	3.15	2.065	0.000801503	1

Wifi: Conclusion: the max result : 0.014714769 ≤ 1.0 compliance with FCC's RF Exposure.

Note:Single Single antenna does not have dual synchronization function