

MAXLAB Testing Co., Ltd.

Report No.: MAX25020169P01-R03

FCC ID:2BN6U-6006

RF Exposure Evaluation 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)

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
la	(A) Limits	for Occupational/Controlled	Exposures	Na	
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	0.163 1.0 6		
300–1500	Mo	Mr. 1	f/300	6	
1500–100,000			5	6	
.\0	(B) Limits for (General Population/Uncontro	olled Exposure	.0	
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	10	10 10	f/1500	30	
1500–100,000	130	30 130	1.0	30	

Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

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 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.

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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Test Result of RF Exposure Evaluation

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm²)	Limit (mW/cm²)	Result
GFSK	2402	0.252	1.06	0.00042	1.0	PASS
	2441	1.219	1.32	0.00053	1.0	PASS
	2480	1.316	1.35	0.00054	1.0	PASS
П/4DQPSK	2402	0.935	1.24	0.00049	1.0	PASS
	2441	1.686	1.47	0.00059	1.0	PASS
	2480	1.757	1.50	0.00060	1.0	PASS
8DPSK	2402	1.059	1.28	0.00051	1.0	PASS
	2441	1.924	1.56	0.00062	1.0	PASS
	2480	2.020	1.59	0.00063	1.0	PASS
GFSK	2402	-0.07	0.98	0.00035	1.0	PASS
	2440	-0.02	1.00	0.00035	1.0	PASS
	2480	-0.20	0.95	0.00034	1.0	PASS

Bluetooth BR/EDR+BLE

Remark: antenna gain= BLE:2.499dBi, BT:3dBi

Conclusion: No SAR is required.