



KSIGN (Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park,
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RF Exposure Evaluation

FCC ID: 2BGU2-ZENC50

REQUIREMENT

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

TEST RESULT

☒ Passed

☐ Not Applicable

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
DH5	2402	4.85	± 1	5.85	3.85	1.1921	3.00	Pass
	2441	4.10	± 1	5.10	3.24	1.0111		
	2480	4.39	± 1	5.39	3.46	1.0896		
2DH5	2402	5.73	± 1	6.73	4.71	1.4599		
	2441	5.06	± 1	6.06	4.04	1.2613		
	2480	4.42	± 1	5.42	3.48	1.0971		
3DH5	2402	5.56	± 1	6.56	4.53	1.4038		
	2441	5.42	± 1	6.42	4.39	1.3703		
	2480	5.99	± 1	6.99	5.00	1.5749		



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Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
BLE_1M	2402	4.76	±1	5.76	3.77	1.1677	3.00	Pass
	2440	4.48	±1	5.48	3.53	1.1034		
	2480	4.22	±1	5.22	3.33	1.0477		
BLE_2M	2402	4.82	±1	5.82	3.82	1.1839		
	2440	4.67	±1	5.67	3.69	1.1527		
	2480	4.46	±1	5.46	3.52	1.1073		

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
11B	2412	4.84	±1	5.84	3.84	1.1918	3.00	Pass
	2437	4.70	±1	5.7	3.72	1.1600		
	2462	4.45	±1	5.45	3.51	1.1007		
11G	2412	4.97	±1	5.97	3.95	1.2281		
	2437	4.54	±1	5.54	3.58	1.1180		
	2462	4.26	±1	5.26	3.36	1.0536		
11N20SISO	2412	4.88	±1	5.88	3.87	1.2029		
	2437	4.45	±1	5.45	3.51	1.0951		
	2462	4.14	±1	5.14	3.27	1.0249		
11N40SISO	2422	4.66	±1	5.66	3.68	1.1458		
	2437	4.47	±1	5.47	3.52	1.1002		
	2452	4.21	±1	5.21	3.32	1.0394		



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Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
11A	5180	4.06	±1	5.06	3.21	1.4595	3.00	Pass
	5220	5.00	±1	6.00	3.98	1.8191		
	5240	5.35	±1	6.35	4.32	1.9756		
11N20SISO	5180	4.01	±1	5.01	3.17	1.4428		
	5220	4.96	±1	5.96	3.94	1.8025		
	5240	5.38	±1	6.38	4.35	1.9893		
11N40SISO	5190	4.24	±1	5.24	3.34	1.5227		
	5230	5.16	±1	6.16	4.13	1.8892		
11AC20SISO	5180	4.10	±1	5.10	3.24	1.4730		
	5220	5.03	±1	6.03	4.01	1.8317		
	5240	5.32	±1	6.32	4.29	1.9620		
11AC40SISO	5190	4.30	±1	5.30	3.39	1.5439		
	5230	5.20	±1	6.20	4.17	1.9067		
11AC80SISO	5210	4.65	±1	5.65	3.67	1.6767		

Note:

- The 2.4G WIFI/BLE/BT maximum antenna gain is 3.3dBi.
- The 5G WIFI maximum antenna gain is 1.0dBi.
- The exposure safety distance is less than 5mm.
- The 2.4G WIFI, BT, BLE and 5G WIFI can not be simultaneous Transmission.

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