

RF TEST REPORT

Report Reference No..... : MAX26080516P01-R01RF

FCC ID..... : 2BXN4-ADQ8

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Date of issue..... : August 12, 2026

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Applicant's name..... : Shenzhen Kaijixun Electronic Technology Co., Ltd.

Address..... : 4th Floor, Building 3, Juhui Industrial Park, Tongguan Avenue, Tianliao Community, Yutang Street, Guangming District, Shenzhen, Guangdong Province, China

Manufacturer's name..... : Shenzhen Kaijixun Electronic Technology Co., Ltd.

Manufacturer Address..... : 1302, Building 3, Geya Science and Technology Building, Watch Base, Mashantou Community, Matian Street, Guangming District, Shenzhen City, Guangdong Province, China

Test specification..... :

Standard..... : **KDB 447498 D01 v06**

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Test item description..... : Car Multimedia Player

Trade Mark..... : N/A

Model/Type reference..... : ADQ8

Listed Models : BZQ8, LXQ8, BWQ8, ADU9, BZU9, LXU9, BWU9, ADU10, BZU10, LXU10, BWU10

Modulation : 2.4G WIFI: CCK/ DSSS/ OFDM
5.2/5.8G WIFI: OFDM

Frequency..... : From 2412 - 2462MHz
From 5180MHz-5240MHz, 5745MHz-5825MHz

Rating..... : DC 12V

Result..... : **PASS**

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.

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. *Plane-wave equivalent power density

Test Procedure

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

Test Result of RF Exposure Evaluation

According to § 1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$Pd = (P_{out} * G) / (4 * \pi * r^2)$$

Where

Pd = power density in mW/cm², **P_{out}** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

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

Tune up Tolerance ±1

WiFi 2.4G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Antenna Gain (dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	8.65	7.33	3.61	0.00335	1.0	PASS
	2437	8.42	6.95	3.61	0.00318	1.0	PASS
	2462	8.77	7.53	3.61	0.00344	1.0	PASS
802.11g	2412	8.32	6.79	3.61	0.00310	1.0	PASS
	2437	8.52	7.11	3.61	0.00325	1.0	PASS
	2462	8.24	6.67	3.61	0.00305	1.0	PASS
802.11n (HT20)	2412	8.11	6.47	3.61	0.00296	1.0	PASS
	2437	7.98	6.28	3.61	0.00287	1.0	PASS
	2462	7.86	6.11	3.61	0.00279	1.0	PASS
802.11n (HT40)	2422	7.52	5.65	3.61	0.00258	1.0	PASS
	2437	7.64	5.81	3.61	0.00265	1.0	PASS
	2452	7.31	5.38	3.61	0.00246	1.0	PASS

WiFi 5G / UNII-1

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Antenna Gain (dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11a	5180	9.85	9.66	3.69	0.00450	1.0	PASS
	5200	9.65	9.23	3.69	0.00429	1.0	PASS
	5240	9.56	9.04	3.69	0.00421	1.0	PASS
802.11n (HT20)	5180	9.22	8.36	3.69	0.00389	1.0	PASS
	5200	9.32	8.55	3.69	0.00398	1.0	PASS
	5240	9.35	8.61	3.69	0.00401	1.0	PASS
802.11n (HT40)	5190	8.85	7.67	3.69	0.00357	1.0	PASS
	5230	8.64	7.31	3.69	0.00340	1.0	PASS
802.11ac (HT20)	5180	9.12	8.17	3.69	0.00380	1.0	PASS
	5200	9.26	8.43	3.69	0.00393	1.0	PASS
	5240	9.31	8.53	3.69	0.00397	1.0	PASS
802.11ac (HT40)	5200	8.41	6.93	3.69	0.00323	1.0	PASS
	5240	8.21	6.62	3.69	0.00308	1.0	PASS
802.11ac (HT80)	5210	7.65	5.82	3.69	0.00271	1.0	PASS

UNII-3

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11a	5745	9.41	8.73	3.69	0.00406	1.0	PASS
	5785	9.32	8.55	3.69	0.00398	1.0	PASS
	5825	9.21	8.34	3.69	0.00388	1.0	PASS
802.11n (HT20)	5745	8.68	7.38	3.69	0.00344	1.0	PASS
	5785	8.74	7.48	3.69	0.00348	1.0	PASS
	5825	8.45	7.00	3.69	0.00326	1.0	PASS
802.11n (HT40)	5755	7.62	5.78	3.69	0.00269	1.0	PASS
	5795	7.48	5.60	3.69	0.00261	1.0	PASS
802.11ac (HT20)	5745	8.24	6.67	3.69	0.00310	1.0	PASS
	5785	8.14	6.52	3.69	0.00303	1.0	PASS
	5825	8.35	6.84	3.69	0.00318	1.0	PASS
802.11ac (HT40)	5755	7.23	5.28	3.69	0.00246	1.0	PASS
	5795	7.35	5.43	3.69	0.00253	1.0	PASS
802.11ac (HT80)	5775	6.86	4.85	3.69	0.00226	1.0	PASS

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.

----END OF REPORT----