

RF Exposure Evaluation Report

Report Reference No...... : **MTEB26060120-H**

FCC ID..... : **2BWQP-2607097**

Compiled by

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Date of issue..... : **Jun.11,2026**

Representative Laboratory Name.: **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : **Ningbo HZ Hentek Imp & Exp Co.,Ltd**

Address..... : No. 827, QiXiang Road, Room NO.612 , H1 Building, HaiShu
District, NingBo,China.

Test specification/ Standard..... : **47 CFR Part 1.1307;47 CFR Part 1.1310**
KDB447498D01 General RF Exposure Guidance v06

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : **WIRELESS CAPPLAY ADAPTER**

Trade Mark..... : N/A

Model/Type reference..... : 2607097

Listed Models : HK-CP001-2,HK-CP020-2,HK-CP020-4,HK-CP020-5,
HK-CP020-2+,HK-CP020-3+,HK-CP020-6+,HK-CP020-7+

Modulation Type..... : GFSK

OFDM

b: DSSS; g/n: OFDM

Operation Frequency..... : From 2402MHz to 2480MHz

From 5180MHz-5240MHz; 5745MHz-5825MHz

From 2412MHz~2462MHz

Hardware Version..... : V1.0

Software Version..... : V1.2

Rating..... : DC 5V

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

TEST REPORT

Equipment under Test : WIRELESS CAPPLAY ADAPTER

Model /Type : 2607097

Listed Models : HK-CP001-2,HK-CP020-2,HK-CP020-4,HK-CP020-5,
HK-CP020-2+,HK-CP020-3+,HK-CP020-6+,HK-CP020-7+

Remark : Only the model “ 2607097 ” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and appearance colour is different.

Applicant : **Ningbo HZ Hentek Imp & Exp Co.,Ltd**

Address : No. 827, QiXiang Road, Room NO.612 , H1 Building, HaiShu District, NingBo,China.

Manufacturer : **NINGBO HENTEK ELECTRONICS CO.,LTD.**

Address : No.398 BinHai 3Rd, HangZhou, Bay Industrial Zone, NingBo, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.06.11	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

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 Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—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

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d 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.

2.1.3 EUT RF Exposure**BLE**

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402 MHz)	-0.01	-0.01 ± 1	0.99
Middle(2440MHz)	-0.57	-0.57 ± 1	0.43
Highest(2480MHz)	-0.05	-0.05 ± 1	0.95

BLE

Worst case: GFSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest(2402 MHz)	0.99	1.26	4.29	0.00067	1.0	Pass

Note: 1) Refer to report MTEB26060120-R for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (1.26 \cdot 2.69) / (4 \cdot 3.1416 \cdot 20^2) = 0.00067$

WIFI 2.4G

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	14.80	14.80 ± 1	15.8
Middle(2437MHz)	14.41	14.41 ± 1	15.41
Highest(2462MHz)	16.23	16.23 ± 1	17.23

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	15.48	15.48 ± 1	16.48
Middle(2437MHz)	15.20	15.20 ± 1	16.2
Highest(2462MHz)	16.01	16.01 ± 1	17.01

802.11n(H20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	15.07	15.07 ± 1	16.07
Middle(2437MHz)	13.93	13.93 ± 1	14.93
Highest(2462MHz)	16.02	16.02 ± 1	17.02

802.11n(H40)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2422MHz)	15.65	15.65 ± 1	16.65
Middle(2437MHz)	16.09	16.09 ± 1	17.09
Highest(2452MHz)	15.28	15.28 ± 1	16.28

WIFI 2.4G

Worst case: 802.11n(H20)						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Highest(2462MHz)	17.23	52.84	4.29	0.02828	1.0	Pass

Note: 1) Refer to report MTEB26060120-R1 for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (52.84 \cdot 2.69) / (4 \cdot \pi \cdot 20^2) = 0.02828$

WIFI 5G

Mode	Channel	Ant. 0 (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
IEEE 802.11a	36	13.9882	13.9882 ± 1	14.9882
	40	16.6132	16.6132 ± 1	17.6132
	48	16.7732	16.7732 ± 1	17.7732
IEEE 802.11n_20	36	14.169	14.169 ± 1	15.169
	40	14.8167	14.8167 ± 1	15.8167
	48	15.1043	15.1043 ± 1	16.1043

Mode	Channel	Ant. 0 (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
IEEE 802.11a	149	15.1882	15.1882 ± 1	16.1882
	157	14.9558	14.9558 ± 1	15.9558
	165	14.7786	14.7786 ± 1	15.7786
IEEE 802.11n_20	149	14.159	14.159 ± 1	15.159
	157	15.119	15.119 ± 1	16.119
	165	13.5814	13.5814 ± 1	14.5814

U-NII 1

Worst case: IEEE 802.11a						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5240 (MHz)	17.7732	59.88	2.67	0.02204	1.0	Pass

Note: 1) Refer to report MTEB26060120-R2 for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (59.88 \cdot 1.85) / (4 \cdot 3.1416 \cdot 20^2) = 0.02204$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

U-NII 3

Worst case: IEEE 802.11a						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5745 (MHz)	16.1882	41.57	2.67	0.01530	1.0	Pass

Note: 1) Refer to report MTEB26060120-R2 for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (41.57 \cdot 1.85) / (4 \cdot 3.1416 \cdot 20^2) = 0.01530$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

.....**THE END OF REPORT**.....