

FCC SAR Exemption Evaluation Report

FCC ID: 2AYGCHES-B39

Project No. : 2012C009
Equipment : Smart Watch
Brand Name : HONOR
Test Model : HES-B39
Series Model : N/A
Applicant : Honor Device Co., Ltd.
Address : Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, Guangdong, China
Manufacturer : Honor Device Co., Ltd.
Address : Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, Guangdong, China
Date of Receipt : Dec. 03, 2020
Date of Test : Dec. 07, 2020 ~ Dec. 10, 2020
Issued Date : Mar. 01, 2021
Report Version : R02
Test Sample : Engineering Sample No.: DG2020120318
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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Certificate #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 14, 2020
R01	1. Added FCC ID. 2. Changed applicant and manufacturer information.	Feb. 10, 2021
R02	Updated the maximum output power.	Mar. 01, 2021

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. GENERAL DESCRIPTION OF EUT

Equipment	Smart Watch
Brand Name	HONOR
Test Model	HES-B39
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	R1
Software Version	1.0.0.73
Power Source	1# Supplied from battery. 2# Supplied from Charging Dock.
Power Rating	1# DC 3.87V, 180mAh 2# DC 5V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	1Mbps

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	-3

Note:

The antenna gain is provided by the manufacturer.

4. The EUT contains following accessory devices:

Items	Trademark / Manufacturer / Factory	Model Name	Description
Rechargeable Li-ion Battery	HONOR DEVICE CO., LTD. (Manufacturer: LISHEN / NVT / CosMX)	HB351731EFW	Capacity:180mAh Rated Voltage:3.87V Cutoff Voltage:4.45V Discharge Voltage:3.0V
Charging Dock	/	POWER-CA030	/

3. GENERAL CONCLUSION

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm											
MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	SAR Test Exclusion Thresholds (mW)
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

4. TEST RESULTS

Max. Output Power (dBm)	Max. Output Power (mW)	Limit (mW)
4.55	2.85	10

Note:

- (1) Output Power including tune up tolerance
 - (2) The maximum measured output peak power of this EUT is 2.85mW, less than 10mW at 5mm distance.
- Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

End of Test Report