

FCC RF Exposure Report

FCC ID	:	IPH-B3958
Equipment	:	Smart Watch
Model No.	:	AB3958
Brand Name	:	GARMIN
Applicant	:	Garmin International, Inc.
Address	:	1200 E. 151st Street Olathe, KS 66062 United States
Standard	:	47 CFR FCC Part 2.1093
Received Date	:	Apr. 16, 2021
Tested Date	:	Arp. 28 ~ Jun. 01, 2021

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:

one Cher





Along Chen// Assistant Manager Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FA141601	Rev. 01	Initial issue	Jun. 21, 2021



1 EXPOSURE EVALUATION OF PORTABLE DEVICES

1.1 SAR TEST EXCLUSION THRESHOLD FOR 100MHz to 6GHz and \leq 50mm

Frequency (MHz)	5	10	15	20	25	Separation distance (mm)
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	3600 8 5200 7 5400 6 5800 6	16	24	32	40	
5200		13	20	26	33	
5400		13	19	26	32	
5800		12	19	25	31	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \leq 1$

3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, 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 result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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 is applied to determine SAR test exclusion.



1.2 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

1.3 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameters	Uncertainty			
Conducted power	±0.808 dB			

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1.4 EVALUATION RESULTS

Maximum Conducted Output Power Result								
Conditi	on	RF Output Power (dBm)						
Modulation Mode	Freq. (MHz)	Average Power (dBm)	Rated Power (dBm)	Rated Power (mW)	Distance (mm)	Threshold	SAR Test Exclusion Thresholds	
LE-1Mbps	2402	-0.19	0	1.00	5	0.31	7.5	
LE-1Mbps	2440	-0.54	0	1.00	5	0.31	7.5	
LE-1Mbps	2480	-0.49	0	1.00	5	0.31	7.5	
LE-2Mbps	2402	-0.20	0	1.00	5	0.31	7.5	
LE-2Mbps	2440	-0.64	0	1.00	5	0.31	7.5	
LE-2Mbps	2480	-0.57	0	1.00	5	0.31	7.5	
BT-BR(1Mbps)	2402	10.92	11	12.59	5	3.90	7.5	
BT-BR(1Mbps)	2441	10.96	11	12.59	5	3.93	7.5	
BT-BR(1Mbps)	2480	10.88	11	12.59	5	3.97	7.5	
BT-EDR(2Mbps)	2402	5.21	5.5	3.55	5	1.10	7.5	
BT-EDR(2Mbps)	2441	5.53	6	3.98	5	1.24	7.5	
BT-EDR(2Mbps)	2480	5.42	5.5	3.55	5	1.12	7.5	
BT-EDR(3Mbps)	2402	5.35	5.5	3.55	5	1.10	7.5	
BT-EDR(3Mbps)	2441	5.77	6	3.98	5	1.24	7.5	
BT-EDR(3Mbps)	2480	5.58	6	3.98	5	1.25	7.5	



Maximum Conducted Output Power Result								
Conditi	RF Output Power (dBm)							
Modulation Mode	Freq. (MHz)	Average Power (dBm)	Rated Power (dBm)	Rated Power (mW)	Distance (mm)	Threshold	SAR Test Exclusion Thresholds	
802.11b	2412	11.35	11.5	14.13	5	4.39	7.5	
802.11b	2437	10.89	11	12.59	5	3.93	7.5	
802.11b	2462	10.53	11	12.59	5	3.95	7.5	
802.11g	2412	12.25	12.5	17.78	5	5.52	7.5	
802.11g	2437	11.89	12	15.85	5	4.95	7.5	
802.11g	2462	12.25	12.5	17.78	5	5.59	7.5	
802.11 HT20	2412	12.03	12.5	17.78	5	5.52	7.5	
802.11 HT20	2437	12.12	12.5	17.78	5	5.55	7.5	
802.11 HT20	2462	11.78	12	15.85	5	4.97	7.5	

Thresholds is < SAR test exclusion thresholds. Thus, SAR test is not required.



2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <u>http://www.icertifi.com.tw</u>.

Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666 No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

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