

RF Exposure Report

Report No.: MFBFKV-WTW-P23050559

FCC ID: L6AITH100-1

Test Model: ITH100-1

Received Date: May 23, 2023

Date of Evaluation: May 29 ~ Jun. 07, 2023

Issued Date: Jul. 07, 2023

Applicant: BlackBerry Limited

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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FCC Registration /

Designation Number: 788550 / TW0003





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Release Control Record

Issue No.	Description	Date Issued
MFBFKV-WTW-P23050559	Original Release	Jul. 07, 2023



1	Cortificato	of Conformity
- 1	Certificate	or Conformity

Product: Radar H2M IS

Brand: BlackBerry

Test Model: ITH100-1

Sample Status: Engineering Sample

Applicant: BlackBerry Limited

Date of Evaluation: May 29 ~ Jun. 07, 2023

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :	Pethie	Chan	. Dat	te: Jul. 07, 2023	
r repared by .			, Dut	Jul. 07, 2025	

Pettie Chen / Senior Specialist

Approved by: Jeveny Lin , Date: Jul. 07, 2023

Jeremy Lin / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)				
	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

2.2 MPE Calculation Formula

Pd = (Pout*G) / (4*pi*r²) where Pd = power density in mW/cm² Pout = 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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



3 Calculation Result of Maximum Conducted Power

Band	Max ERP Power (dBm)	Max EIRP Power (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
Cat-M1 Band 2	-	26.63	20	0.092	1.00
Cat-M1 Band 4	-	26.06	20	0.080	1.00
Cat-M1 Band 5	23.24	25.39	20	0.069	0.55
Cat-M1 Band 12	20.57	22.72	20	0.037	0.46
Cat-M1 Band 13	21.82	23.97	20	0.050	0.52
Cat-M1 Band 25	-	26.29	20	0.085	1.00
Cat-M1 Band 26 (Part 22)	22.84	24.99	20	0.063	0.54
Cat-M1 Band 26 (Part 90)	22.74	24.89	20	0.061	0.54
Cat-M1 Band 66	-	27.40	20	0.109	1.00
Cat-M1 Band 85	20.96	23.11	20	0.041	0.46

Band	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
2405-2480MHz	11.74	4.63	20	0.009	1
904-926MHz	16.90	2	20	0.015	0.603

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. EIRP = ERP + 2.15dB
- 3. Detail antenna specification please refer to antenna datasheet or an antenna gain measurement report.

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

2405~2480MHz + Cat-M1 Band = 0.009 / 1 + 0.069 / 0.55 = 0.134 904~926MHz + Cat-M1 Band = 0.015 / 0.603 + 0.069 / 0.55 = 0.150

Therefore the maximum calculations of above situations are less than the "1" limit.

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