

RF Exposure Report

Report No.: MFBFKV-WTW-P23050558

FCC ID: L6AITG100-1

Test Model: ITG100-1

Received Date: May 23, 2023

Date of Evaluation: Oct. 27 ~ Dec. 25, 2023

Issued Date: Apr. 11, 2024

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-P23050558	Original Release	Apr. 11, 2024



1 Certificate of Co	onformity					
Product:	Radar H2M					
Brand:	BlackBerry					
Test Model:	ITG100-1					
Sample Status:	Engineering Sample					
Applicant:	BlackBerry Limited					
Date of Evaluation:	Date of Evaluation: Oct. 27 ~ Dec. 25, 2023					
FCC Rule Part:	FCC Part 2 (Section 2.1091)					
Standards:	KDB 447498 D01 General RF Exposure Guidance v06					
Taoyuan Branch, and evaluation & Equipme	It has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd. It down downpliance with the requirement of the above standards. The test record, data and Under Test (EUT) configurations represented herein are true and accurate accounts of the sample's RF characteristics under the conditions specified in this report.					
Prepared by	Pettie Chen / Senior Specialist Pettie Chen / Senior Specialist					
Approved by	Jeremy Lin , Date: Apr. 11, 2024					

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	-	26.50	20	0.089	1.00
Cat-M1 Band 4	-	25.92	20	0.078	1.00
Cat-M1 Band 5	23.01	25.16	20	0.065	0.55
Cat-M1 Band 12	20.37	22.52	20	0.036	0.46
Cat-M1 Band 13	21.60	23.75	20	0.047	0.52
Cat-M1 Band 25	-	26.17	20	0.082	1.00
Cat-M1 Band 26 (Part 22)	-	22.72	20	0.037	0.54
Cat-M1 Band 26 (Part 90)	-	22.60	20	0.036	0.54
Cat-M1 Band 66	-	27.17	20	0.104	1.00
Cat-M1 Band 85	20.77	22.92	20	0.039	0.46

Band	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
2405-2480MHz	11.38	4.63	20	0.008	1
904-926MHz	16.88	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 = 0.008 / 1 + 0.065 / 0.55 = 0.127 904~926MHz + Cat-M1 Band = 0.015 / 0.603 + 0.065 / 0.55 = 0.144

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

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