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TEST REPORT

Product Name	:	Bluetooth 5.1 Dual-mode Module
Brand Mark	:	N/A
Model No.	:	B861U
FCC ID	:	VYV-B861U
Report Number	:	BLA-EMC-202203-A8404
Date of Sample Receipt	:	2022/3/23
Date of Test	:	2022/3/23 to 2022/4/12
Date of Issue	:	2022/4/12
Test Standard	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result	:	Pass

Prepared for:

Iton Technology Corp

Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road, Longgang District, Shenzhen City, Guangdong Province, China Prepared by:

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REPORT REVISE RECORD

Version No.	sion No. Date Description		
00	2022/4/12	Original	



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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS



GENERAL INFORMATION 2

Applicant	Iton Technology Corp			
Address	Room 1302, Block A, Building 4,Tianan Cyber Park, Huangge Road, Longgang District, Shenzhen City,Guangdong Province, China			
Manufacturer	Iton Technology Corp			
Address	7 Floor East, Building C, No. 1006 Shennan Road, Shenzhen International Innovation Center, Futian Technology Square, Futian Dist. Shenzhen, China			
Factory	Iton Technology Corp., Longgang Branch			
Address	2~3 Floor, East Wing, Building A, Weixinda Technology Park, No.95 Ainan Road, Longgang District, Shenzhen City, Guangdong Province, China.			
Product Name	Bluetooth 5.1 Dual-mode Module			
Test Model No.	B861U			
3 GENERAL DESCRIPTION OF E.U.T.				

GENERAL DESCRIPTION OF E.U.T. 3

Hardware Version	V1.1
Software Version	V2.09
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, pi/4DQPSK,8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB Antenna
Antenna Gain:	1.97dBi(Provided by the applicant)

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	1MHz , 2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.97dBi(Provided by the applicant)



4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673 No tests were sub-contracted.



5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

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.

5.2 LIMITS

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)] ·

 $[\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 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 calculation¹⁷

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

Operational M	lode: BDR (GF	SK worst case)				
	Maximum		Maximum tune	-up Power		
Channel	Peak Conducted Output Power	Tune up tolerance (dB)	(dBm)	(mW)	Calculated value	Exclusion threshold
2402MHZ	(dBm) 4.254		5.254	2.25	1.04	
2402101112	4.234	±1	5.234	3.35	1.04	
2441MHz	4.278	±1	5.278	3.37	1.05	3.0
2480MHz	4.432	±1	5.432	3.49	1.10	
Operational M	lode: BLE					
			4 5 5 1			_
2402	3.771	±1	4.771	3.00	0.93	
2442	3.842	±1	4.842	3.05	0.95	3.0
2480	3.974	±1	4.974	3.14	0.99	
Conclusion: th	ne calculated va	lue \leq 3.0, SAR	is exempted.			

5.3 EUT RF EXPOSURE



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----END OF REPORT----

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