

Report No. : EED32P80539202







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RF Exposure Evaluation Report

Product	: ePaper		
Trade mark	: Qbic		
Model/Type reference	: EP-0400, EP-0	4XXXXXXX	
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	character for m	narketing purpose)	
Serial Number	: N/A		
Report Number	: EED32P80539	202	
FCC ID	: 2AF82-EP040	ы 🕓	
Date of Issue	: May 30, 2023		
Test Standards	: 47 CFR Part 1 47 CFR Part 1		
	47 CFR Part 1 47 CFR Part 2		
	47 CFR Part 2		
		terim General RF	
Test result	Exposure Guid		
restresuit	. FA33		
	Prepared for:		
Obic ⁻	Technology Co	l td	
26 F12, No. 99, Sec. 1	•••	-	ainei
	21416, Taiwan,		
	Prepared by:		
Centre Testing	International C	Group Co., Ltd.	
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	en, Guangdong		
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TERNATIO			
Sompiled By & mark the	on 0	Tom Che	2
	Reviewed		
Approved by Shark Cher	//	Tom Chen May 30, 2023	
13	Date.		
Report Seal			

Check No.: 6529180423

Report Seal





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2 Version

	Version No.	Date		D	escription	
S	00	May 30, 2023	3		Original	Ì
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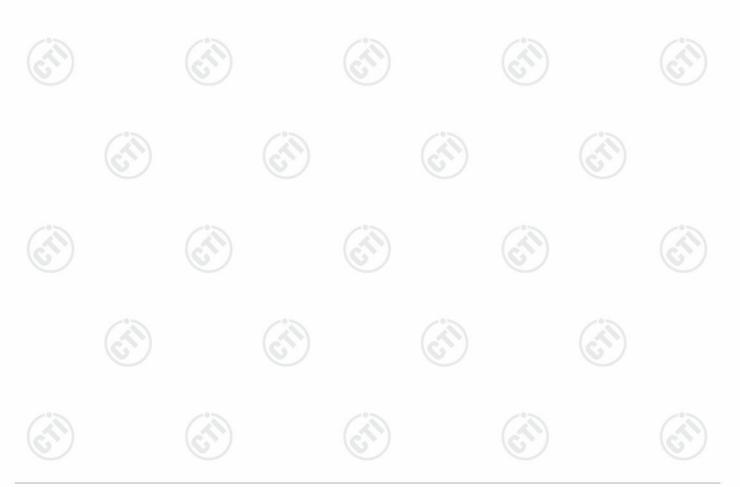


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 4.1 CLIENT INFORMATION		
 5.1 RF Exposure COMPLIANCE REQUIREMENT		











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Report No. : EED32P80539202 4 General Information

4.1 Client Information

Applicant:	Qbic Technology Co., Ltd.				
Address of Applicant:	26 F12, No. 99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan, China				
Manufacturer:	Qbic Technology Co., Ltd.				
Address of Manufacturer: 26 F12, No. 99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan, China					
Factory 1:	Jiangxi Xingtai Technology Inc.				
Address of Factory 1:	Jizhou District industrial park, Ji'an, Jiangxi, China				
Factory 2:	Qbic Technology Co., Ltd.				
Address of Factory 2:	26 F10, No. 99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan, China				
Factory 3:	Lih Rong Electronic Enterprise Co., Ltd.				
Address of Factory 3:	No. 486, Sec. 1, Wanshou Rd., Guishan Dist., Taoyuan City 333026, Taiwan, China				
Factory 4:	Lih Rong Electronic Enterprise Co., Ltd				
Address of Factory 4:	No. 1, Gaoxia Rd., Zhongli Dist., Taoyuan City 320030, Taiwan, China				

4.2 General Description of EUT

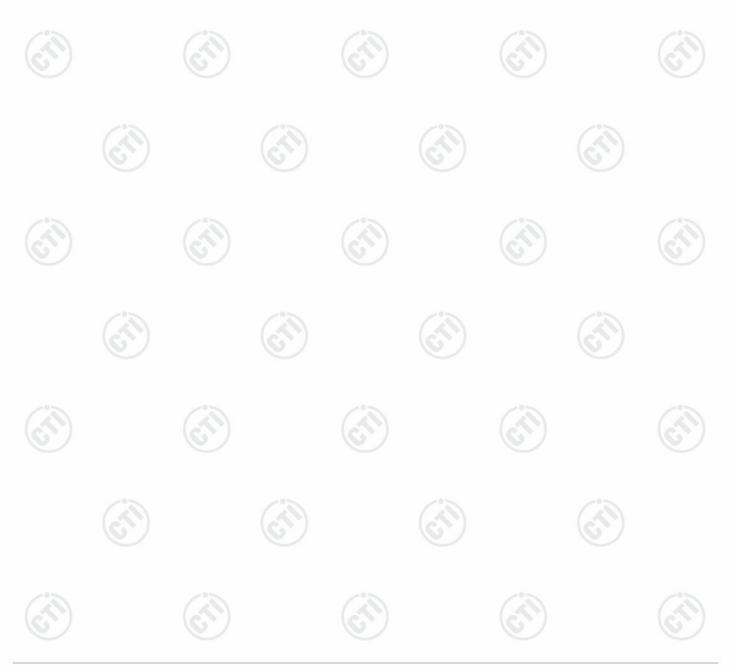
Product Name:	ePaper		
Model No.(EUT):	EP-0400, EP-04XXXX marketing purpose)	XXXX (X=A~Z, a~z, 0~9, "-'	or blank, any character for
Test Model No.:	EP-0400		
Trade Mark:	Qbic		
			1

4.3 Product Specification subjective to this standard

For BLE			
Frequency Range:	2402MHz~2480MHz	-0-	-05
Modulation Type:	GFSK		
Test Power Grade:	Default		6.
Test Software of EUT:	Direct Test Mode		
Antenna Type:	FPC Antenna		
Antenna Gain:	0.46dBi		
Power Supply:	DC 3V	(5)	
Max Conducted Peak	1.13dBm	\bigcirc	
Output Power:	The Max Conducted Peak Output Power data	refer to the report EE	D32P80539201
For NFC	C°2	~~>	~°>>
Operation Frequency:	13.56MHz	(\mathcal{A})	(\mathcal{A})
Modulation Type:	ASK	V	V



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Antenna Type:	PCB antenna	
maximum Field Strength	51.95 dBµV/m	
(E) @3m:	The maximum Field Strength data refer to the	report EED32P80539203
12		100
Sample Received Date:	Apr. 19, 2023	S) (S)
Sample tested Date:	Apr. 19, 2023 to May 12, 2023	
by the applicant who shoul Model No.: EP-0400, EP-0	ess shown on Report, the sample(s) and sample d be responsible for the authenticity which CTI ha 4XXXXXXX (X=A~Z, a~z, 0~9, "-" or blank, any c as tested. They have same electrical, PCB and la irements.	asn't verified. character for marketing purpose)











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4.4 Test Location

- All tests were performed at: Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted. FCC Designation No.: CN1164
- 4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions None.

4.7 Other Information Requested by the Customer



















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5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW). This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20 \,\,{\rm cm}} (d/20 \,\,{\rm cm})^x & d \le 20 \,\,{\rm cm} \\ \\ ERP_{20 \,\,{\rm cm}} & 20 \,\,{\rm cm} < d \le 40 \,\,{\rm cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\,\mathrm{cm}\sqrt{f}}\right)$$

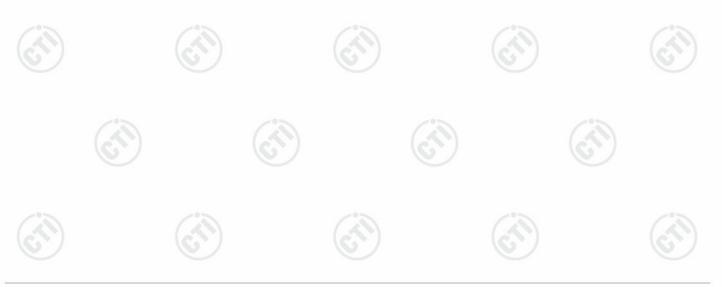
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B.1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.











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5.1.3 EUT RF Exposure Evaluation

For Stand alone:

or	BLE	

BLE					(AN)		(4
Frequency	Max.	Antenna	EIRP	ERP	ERP	Limit	Result
(MHz)	Conducted	Gain (dBi)	(dBm)	(dBm)	(mW)	(mW)	
	Output						
	power	~~~		10		12	
	(dBm)	(\sim)		(A)		$(\mathcal{A}^{\mathbb{N}})$	
2480	1.13	0.46	1.59	-0.56	0.879	3060	PASS

Note:

- 1) EIRP=conducted power + antenna gain;
- (2) ERP=EIRP-2.15
- ③ Only the worst case data was recorded in the report.

For NFC:

Frequency	maximum	EIRP	EIRP	Limit	Resul
(MHz)	Field	(dBm)	(mW)	(mW)	6
	Strength				
	(E) @3m				
(°>)	(dBµV/m)	10		23	
13.56	51.95	-43.35	0.00004624	1	PASS

The maximum Field Strength of the transmitter was 51.95 dBµV/m at 3m which equals 0.00004624mW, which is well below the exemption limit of 1mW.

Note:

(1) EIRP (dBm) = E(dB μ V/m) -95.3

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