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RF Exposure Evaluation Report

Product : Black Diamond 75

Trade mark : DRY STUDIO

Model/Type reference : DR001

Serial Number : N/A

Report Number : EED32P80600803

FCC ID : 2A3FY-DR001

Date of Issue : Jun. 21, 2023

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

Angry Miao Technology Co., Limited 2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town,Xiangzhou District, Zhuhai,China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:

Approved by:

Report Seal

Martin Lee

Reviewed by:

Tom Chen

Lavon Ma

Date:

Jun. 21, 2023

Aaron Ma

Check No.: 6113260423









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3 General Information

3.1 Client Information

Applicant:	Angry Miao Technology Co., Limited					
Address of Applicant:	2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town,Xiangzhou District, Zhuhai,China					
Manufacturer:	Angry Miao Technology Co., Limited					
Address of Manufacturer:	2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town,Xiangzhou District, Zhuhai,China					

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3.2 General Description of EUT

Product Name:	Black Diamond	175					
Model No.(EUT):	DR001						
Trade Mark:	DRY STUDIO Portable						
Device type:				(0.)	(6.)		
Power Supply:	USB port:	DC 5V					
	Battery:	DC 3.8V					
Test Voltage:	DC 3.8V	•	1:0	/			
Sample Received Date:	Apr. 28, 2023	Apr. 28, 2023					
Sample tested Date:	Apr. 28, 2023 to Jun. 09, 2023						

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz					
Modulation Type:	GFSK					
Transfer Rate:	⊠1Mbps ⊠2Mbps					
Number of Channel:	40					
Antenna Type:	PIFA Antenna					
Antenna Gain:	1.0dBi					
Max Conducted Peak	2.14dBm					
Output Power:	The Max Conducted Peak Output Power data refer to the report EED32P80600801					

3.4 General Description of 2.4G

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channel:	23
Antenna Type:	PIFA Antenna
Antenna Gain:	1.0dBi
Max Conducted Peak	-0.94dBm
Output Power:	The Max Conducted Peak Output Power data refer to the report EED32P80600802

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





3.5 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

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.





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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

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

where

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

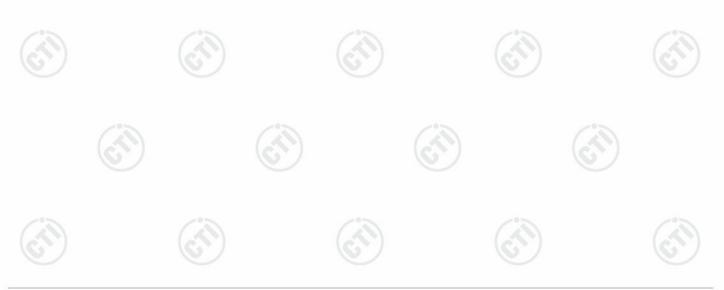
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

4.1.2 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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4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

	6.	Max.	6.	/	/	5		(0,)
Frequency (MHz)	Separation distance (cm)	Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2480	0.5	2.14	1.0	3.14	0.99	1.256	2.717	PASS

For 2.4G

3			Max.		1	/			
	Frequency (MHz)	Separation distance (cm)	Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
	2480	0.5	-0.94	1.0	0.06	-2.09	0.618	2.717	PASS

Note:

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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***