





Report No.: FA882303

Radio Exposure Evaluation Report

FCC ID : 2AKWYXBP202

Equipment : Digital Transmission System

Brand Name : DynaScan Technology Corp.

Model Name : XBP202

Applicant : DYNASCAN TECHNOLOGY CORP.

7F, 66 Huaya 1st Road, Guishan Taoyuan

33383, Taiwan

Manufacturer : DYNASCAN TECHNOLOGY CORP.

7F, 66 Huaya 1st Road, Guishan Taoyuan

33383,Taiwan

Standard : 47 CFR Part 2.1091

The product was received on Aug. 20, 2018, and testing was started from Aug. 23, 2018 and completed on Aug. 23, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Report Template No.: HE1-A1 Ver2.0

FCC ID: 2AKWYXBP202

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Issued Date : Sep. 12, 2018

Report Version : 01



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Photographs of EUT V01

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History of this test report

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Report No.	Version	Description	Issued Date
FA882303	01	Initial issue of report	Sep. 12, 2018

Reviewed by: Jackson Tsai

Report Producer: Jenny Yang

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1 General Description

1.1 EUT General Information

RF General Information						
Evaluation Mode	Frequency Operating Range Frequency (MHz) (MHz)		Modulation Type			
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			

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1.2 Testing Location

	Testing Location								
\boxtimes	HWA YA ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)								
TEL: 886-3-327-3456 FAX: 886-3-327-0973									
	Test site Designation No. TW1190 with FCC.								
	JHUBEI ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)								
		TEL : 886-3-656-9065 FAX : 886-3-656-9085							
	Test site Designation No. TW0006 with FCC.								

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2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6

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(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
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

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E (V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;G1D	-0.29	23.12	22.83	0.50	23.33	0.21528	20	0.04283	1.00000
2.4G;D1D	-0.29	20.55	20.26	0.50	20.76	0.11912	20	0.02370	1.00000

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———THE END———

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