

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2101942

FCC REPORT (WIFI)

Applicant: Autel Robotics Co., Ltd.

Address of Applicant: 9th Floor, Bldg. B1, Zhiyuan, 1001 Xueyuan Rd., Xili, Nanshan,

Shenzhen 518055, China

Equipment Under Test (EUT)

Product Name: DragonFish Ground Control Station

Model No.: DFRC-2

Trade mark:

OUTEL

ROBOTICS

FCC ID: 2AGNTDFRC2TBA

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 24 Sep., 2021

Date of Test: 24 Sep., to 20 Oct., 2021

Date of report issued: 09., Nov., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version

Version No.	Date	Description
00	20 Oct., 2021	Original
01	09., Nov., 2021	Update page 36

Mike.0U

Test Engineer Tested by: 09., Nov., 2021 Date:

Reviewed by: Date: 09., Nov., 2021

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result		
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass		
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass		
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass		
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass		
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass		
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass		
Conducted Band Edge	45 247 (4)	Appendix A – 2.4G Wi-Fi	Pass		
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass		
Conducted Spurious Emission	15 205 8 15 200	Appendix A – 2.4G Wi-Fi	Pass		
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2			

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

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5 General Information

5.1 Client Information

Applicant:	Autel Robotics Co., Ltd.
Address:	9th Floor, Bldg. B1, Zhiyuan,1001 Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China
Manufacturer/ Factory:	Autel Robotics Co., Ltd.
Address:	9th Floor, Bldg. B1, Zhiyuan,1001 Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China

5.2 General Description of E.U.T.

Droduct Name:	
Product Name:	DragonFish Ground Control Station
Model No.:	DFRC-2
Wi-Fi Module No:	Chip 2
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps (MIMO)
Antenna Type:	Internal Antenna
Antenna gain:	Chip 2: ANT 1: 2.4G Wi-Fi: 3.0 dBi, (declare by Applicant) ANT 2: 2.4G Wi-Fi: 3.5 dBi. (declare by Applicant)
Power supply:	Rechargeable Li-ion Battery DC11.4V-8.2Ah
AC adapter:	Adapter 1: Model: ADS-110DL-19-1 190090G Input: AC100-240V, 50/60Hz, 1.5A Output: DC 19.0V, 4.74A Adapter 2: Model: DF_CHARGER Input: AC100-240V, 50/60Hz, 4.0A Output: DC 26.4V, 7A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(HT20)								
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	3 2422MHz 6 2437MHz 9 2452MHz							
Note:								
1. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel.								

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5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Transmitting mode	Keep the EUT in continuous transmitting with modulation			

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.				
Mode Data rate				
802.11b	1Mbps			
802.11g	6Mbps			
802.11n(HT20)	6.5Mbps			

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

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5.8 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022	
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022	
Spectrum analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021	
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022	
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022	
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022	
EMI Test Software	Tonscend	TS+		Version:3.0.0.1		

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022	
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022	
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	V	ersion: 6.110919	b	





Conducted method:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021	
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021	
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021	
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021	
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A	
PDU	MWRF-test	XY-G10	N/A	N/A	N/A	
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021	
Temperature Humidity Chamber	ZhongZhi	CZ-C-150D	ZH16491	11-01-2020	10-31-2021	
Test Software	MWRF-tes	MTS 8310	,	Version: 2.0.0.0		





6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Wi-Fi antenna cannot replace by end-user, the best case gain of the antenna as bllow:

ANT No	ANT Gain
ANT 1	3.0dBi
ANT 2	3.5dBi

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6.2 Conducted Emission

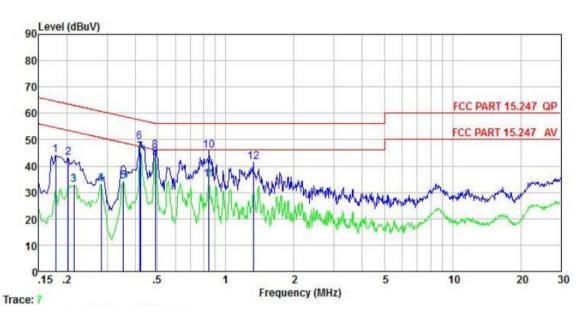
Test Requirement:	FCC Part 15 C Section 15.2	207						
Test Frequency Range:	150 kHz to 30 MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9 kHz, VBW=30 kHz							
Limit:	Frequency range (MHz)	Limit (dRu\/)						
	Quasi-peak Average							
	0.15-0.5 66 to 56* 56 to 46*							
	0.5-5	56	46					
	5-30	60	50					
Test procedure	 Decreases with the logarithm of the frequency. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed 							
Test setup:		a.10(latest version) on conc eference Plane	ducted measurement.					
	AUX Equipment Test table/Insulatio Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabin Test table height=0.8m	st Silization Network	er — AC power					
Test Instruments:	Refer to section 5.8 for deta	ils						
Test mode:	Refer to section 5.3 for deta	nils						
Test results:	Passed							
Remark:	During the test, pre-scan worse case mode. The repo							

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Measurement Data:

Product name:	DragonFish Ground Control Station	Product model:	DFRC-2
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



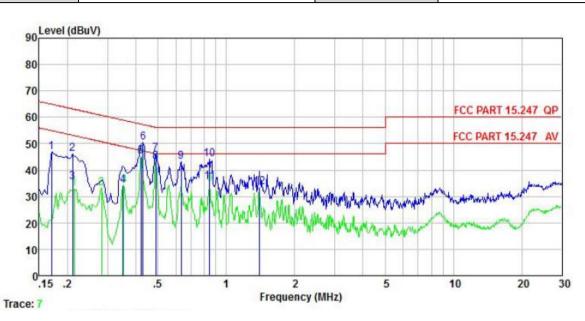
	Freq	Read Level		Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	dB	<u>dB</u>	dB	dBu∛	₫₿uѶ	<u>db</u>	
1	0.178	34.07	10.23	0.00	0.01	44.31	64.59	-20.28	QP
2	0.202	33.02	10.23	0.00	0.04	43.29	63.54	-20.25	QP
3	0.214	22.56	10.24	0.00	0.03	32.83	53.05	-20.22	Average
4	0.282	22.89	10.26	0.00	0.02	33.17	50.76	-17.59	Average
4 5 6 7	0.354	23.79	10.27	0.00	0.02	34.08	48.87	-14.79	Average
6	0.417	38.85	10.28	0.00	0.04	49.17	57.51	-8.34	QP
7	0.421	34.74	10.28	0.00	0.04	45.06	47.42	-2.36	Average
8	0.489	35.64	10.29	0.00	0.03	45.96	56.19	-10.23	QP
9	0.489	32.96	10.29	0.00	0.03	43.28	46.19	-2.91	Average
10	0.844	35.36	10.31	0.00	0.04	45.71	56.00	-10.29	QP
11	0.844	24.68	10.31	0.00	0.04	35.03	46.00	-10.97	Average
12	1.324	31.04	10.32	0.00	0.11	41.47	56.00	-14.53	QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Product name:	DragonFish Ground Control Station	Product model:	DFRC-2
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	₫B	āB	₫B	dBu∛	dBu∜	<u>d</u> B	
1	0.170	36.62	10.20	0.00	0.01	46.83	64.94	-18.11	QP
2	0.211	35.75	10.22	0.00	0.03	46.00	63.18	-17.18	QP
3	0.211	25.22	10.22	0.00	0.03	35.47	53.18	-17.71	Average
4	0.350	23.82	10.26	0.00	0.02	34.10	48.96	-14.86	Average
1 2 3 4 5 6 7 8 9 10	0.421	34.81	10.27	0.00	0.04	45.12	47.42	-2.30	Average
6	0.431	40.34	10.27	0.00	0.03	50.64	57.24	-6.60	QP
7	0.489	35.75	10.28	0.00	0.03	46.06	56.19	-10.13	QP
8	0.489	32.89	10.28	0.00	0.03	43.20	46.19	-2.99	Average
9	0.634	32.76	10.29	0.00	0.02	43.07	56.00	-12.93	QP
10	0.844	33.78	10.31	0.00	0.04	44.13	56.00	-11.87	QP
11	0.844	25.20	10.31	0.00	0.04	35.55	46.00	-10.45	Average
12	1.396	23.00	10.31	0.00	0.13	33.44	46.00	-12.56	Average

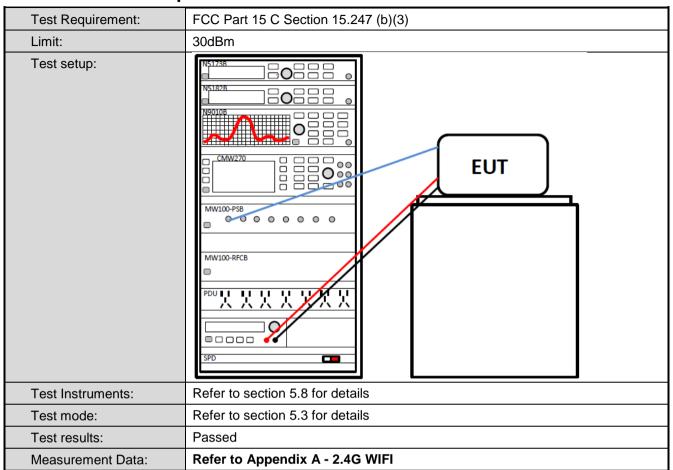
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

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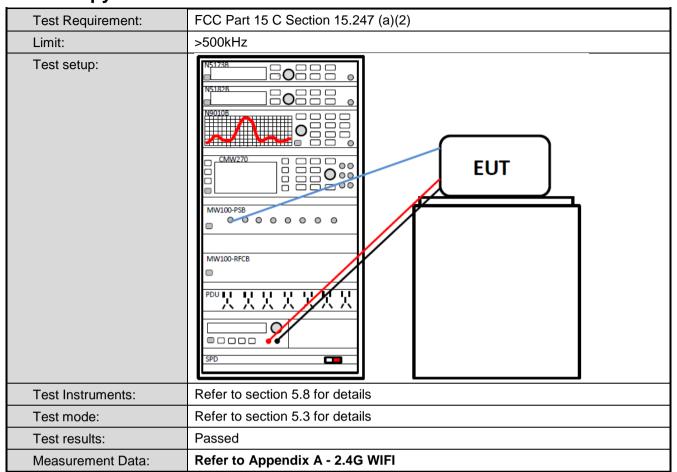
6.3 Conducted Output Power



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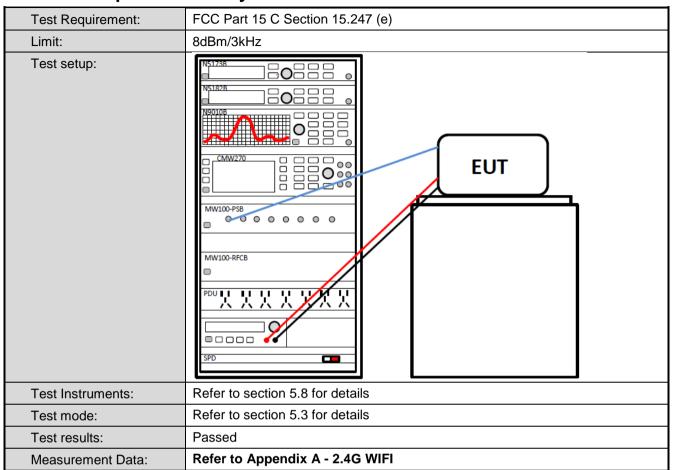
6.4 Occupy Bandwidth



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6.5 Power Spectral Density





6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	NS182B NS18B NS18					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Measurement Data:	Refer to Appendix A - 2.4G WIFI					

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6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz							
Test Distance:	3m							
Receiver setup:	Frequency	Detector	RBW	VBV		Remark		
	Above 1GHz	Peak	1MHz	3MH		Peak Value		
111	Frequency	RMS	1MHz nit (dBuV/m @	3MH		Average Value Remark		
Limit:			54.00	3111)		age Value		
	Above 1GH	z 📉	74.00			ak Value		
Test ceture	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 							
Test setup:	150cm	AE EUT (Turntable)	Ground Reference Plane		enna Tower			
Test Instruments:	Refer to section 5	.8 for details						
Test mode:	Refer to section 5	.3 for details						
Test results:	Passed							

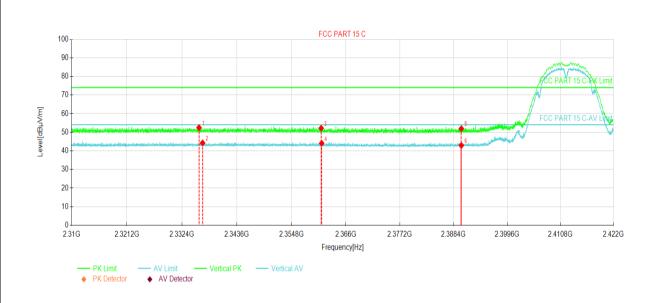
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802.11b mode:

ANT1

Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



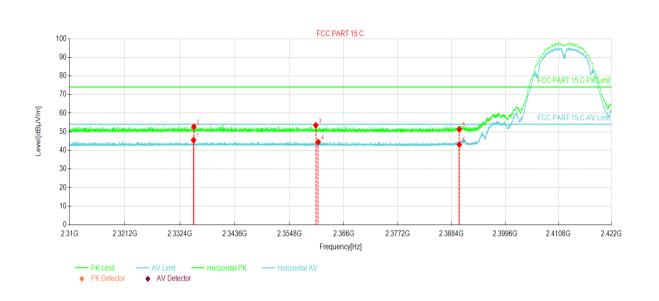
Suspe	Suspected Data List									
NO -	Freq.⊌	Reading	Level⊬	Factor⊎	Limit⊬	Margin⊬	Т	Delevitor		
NO.₽	[MHz]	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity₽		
1₽	2335.85	45.54	52.44₽	6.90₽	74.00₽	21.56₽	PK₽	Vertical₽		
2₄□	2336.58	37.33₽	44.23₽	6.90₽	54.00₽	9.77₽	AV₽	Vertical₽		
3₽	2360.93	45.17₽	52.15₽	6.98₽	74.00₽	21.85₽	PK₽	Vertical₽		
4 ₽	2361.03	37.09₽	44.07₽	6.98₽	54.00₽	9.93₽	AV₽	Vertical₽		
5⇔	2390.01	44.85₽	51.93₽	7.08₽	74.00₽	22.07₽	PK₽	Vertical₽		
6₽	2390.01	35.82₽	42.90₽	7.08₽	54.00₽	11.10₽	AV₽	Vertical₽		

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Susp	Suspected Data List									
NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∂	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity∉		
1₽	2335.15	38.55₽	45.45₽	6.90₽	54.00₽	8.55₽	AV₽	Horizontal₽		
2⇔	2335.22	45.80₽	52.70₽	6.90₽	74.00₽	21.30₽	PK₽	Horizontal₽		
3₽	2360.23	46.46₽	53.44₽	6.98₽	74.00₽	20.56₽	PK₽	Horizontal₽		
4 ₽	2360.72	37.44₽	44.42₽	6.98₽	54.00₽	9.58₽	AV₽	Horizontal₽		
5⇔	2390.01	44.21₽	51.29₽	7.08₽	74.00₽	22.71₽	PK₽	Horizontal₽		
6↩	2390.01	36.03₽	43.11₽	7.08₽	54.00₽	10.89₽	AV₄⊃	Horizontal₽		

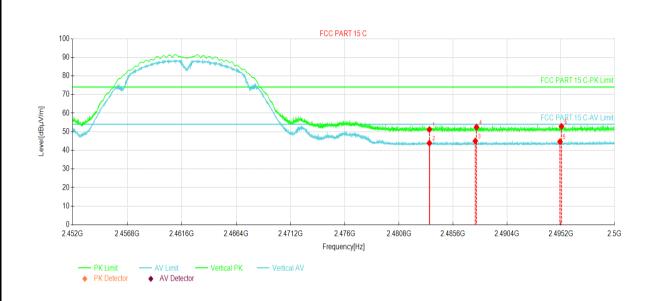
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



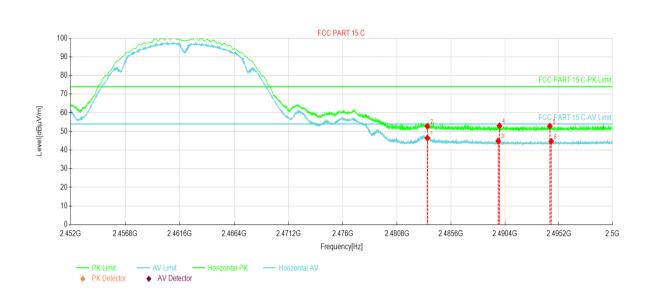
Suspe	Suspected Data List									
NO -	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limit⊬	Margin⊬	Т	Delevitor		
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity∂		
1₽	2483.50	43.51₽	51.20₽	7.69₽	74.00₽	22.80₽	PK₽	Vertical₽		
2↩	2483.50	36.18₽	43.87₽	7.69₽	54.00₽	10.13₽	AV₽	Vertical₽		
3₽	2487.58	37.30₽	45.01₽	7.71₽	54.00₽	8.99₽	AV₽	Vertical₽		
4 🕫	2487.68	44.78₽	52.50₽	7.72₽	74.00₽	21.50₽	PK₽	Vertical₽		
5₽	2495.12	36.88₽	44.65₽	7.77₽	54.00₽	9.35₽	AV₽	Vertical₽		
6₽	2495.26	45.09₽	52.86₽	7.77₽	74.00₽	21.14₽	PK₽	Vertical₽		

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List								
NO -	Freq.⊬	Reading∉	Level⊬	Factor⊬	Limit⊬	Margin⊬	Т	Delevitor	
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity₽	
1₽	2483.50	38.78₽	46.47₽	7.69₽	54.00₽	7.53₽	AV₽	Horizontal₽	
2₽	2483.50	45.04₽	52.73₽	7.69₽	74.00₽	21.27₽	PK₽	Horizontal₽	
3₽	2489.80	37.16₽	44.89₽	7.73₽	54.00₽	9.11₽	AV₽	Horizontal₽	
4₽	2489.91	45.28₽	53.01₽	7.73₽	74.00₽	20.99₽	PK₽	Horizontal₽	
5₽	2494.40	45.08₽	52.84₽	7.76₽	74.00₽	21.16₽	PK₽	Horizontal₽	
6₽	2494.52	36.91₽	44.67₽	7.76₽	54.00₽	9.33₽	AV₽	Horizontal₽	

Remark:

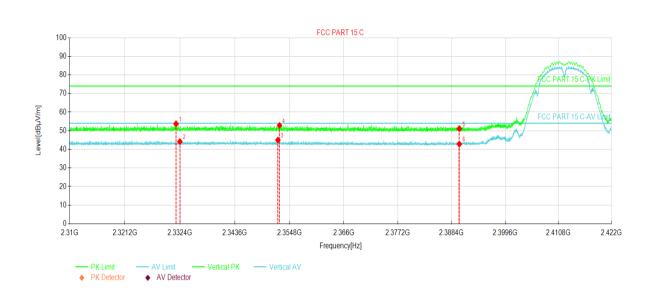
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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ANT2

Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



Suspe	Suspected Data List									
NO.₽	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limitℯ	Margin⊬	Trace∉	Dolority		
NO.₽	[MHz]	[dBµV/m]∂	[dBµV/m]∂	[dB]₽	[dBµV/m]∂	[dB]∂	Trace-	Polarity∂		
1₽	2331.58	46.85₽	53.73₽	6.88₽	74.00₽	20.27₽	PK₽	Vertical₽		
2⇔	2332.37	37.25₽	44.14₽	6.89₽	54.00₽	9.86₽	AV₽	Vertical₽		
3₽	2352.42	38.05₽	45.00₽	6.95₽	54.00₽	9.00₽	AV₽	Vertical₽		
4.□	2352.75	45.89₽	52.84₽	6.95₽	74.00₽	21.16₽	PK₽	Vertical₽		
5₽	2390.01	43.99₽	51.07₽	7.08₽	74.00₽	22.93₽	PK₽	Vertical₽		
6₽	2390.01	35.75₽	42.83₽	7.08₽	54.00₽	11.17₽	AV₽	Vertical₽		

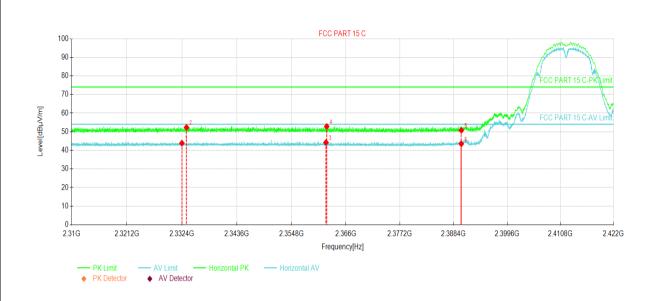
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Susp	Suspected Data List								
NO.₽	Freq.⊬ [MHz]₽	Reading⊬ [dBµV/m]⊮	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity∉	
1₽	2332.37	36.96₽	43.85₽	6.89₽	54.00₽	10.15₽	AV₽	Horizontal₽	
2₽	2333.31	45.41₽	52.30₽	6.89₽	74.00₽	21.70₽	PK₽	Horizontal₽	
3₽	2361.92	37.22₽	44.20₽	6.98₽	54.00₽	9.80₽	AV₽	Horizontal₽	
4₽	2362.06	45.82₽	52.80₽	6.98₽	74.00₽	21.20₽	PK₽	Horizontal₽	
5₽	2390.01	43.71₽	50.79₽	7.08₽	74.00₽	23.21₽	PK₽	Horizontal₽	
6₽	2390.01	36.43₽	43.51₽	7.08₽	54.00₽	10.49₽	AV₽	Horizontal₽	

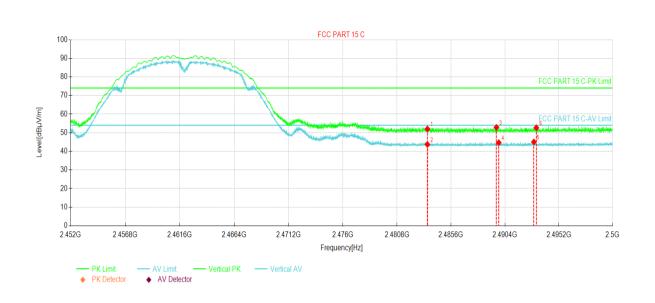
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List								
NO -	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limit⊬	Margin⊬	T	Delevitor	
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity₽	
1₽	2483.50	44.29₽	51.98₽	7.69₽	74.00₽	22.02₽	PK₽	Vertical₽	
2₽	2483.50	36.01₽	43.70₽	7.69₽	54.00₽	10.30₽	AV₽	Vertical₽	
3₽	2489.63	45.13₽	52.86₽	7.73₽	74.00₽	21.14₽	PK₽	Vertical₽	
4₽	2489.84	36.90₽	44.63₽	7.73₽	54.00₽	9.37₽	AV₽	Vertical₽	
5₽	2492.97	37.27₽	45.02₽	7.75₽	54.00₽	8.98₽	AV₽	Vertical₽	
6₽	2493.19	44.91₽	52.66₽	7.75₽	74.00₽	21.34₽	PK₽	Vertical₽⊸	

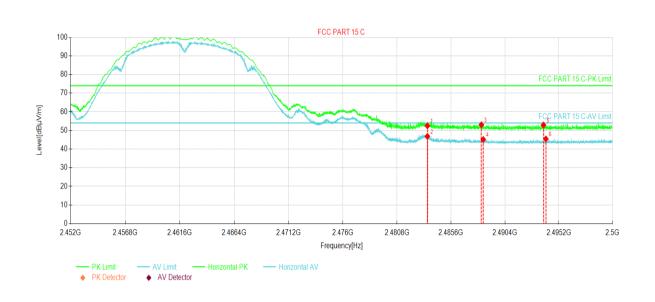
Remark

- 3. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 4. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List								
NO.	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limit⊬	Margin⊬	Т	Delevitor	
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity∂	
1₽	2483.50	44.79₽	52.48₽	7.69₽	74.00₽	21.52₽	PK₽	Horizontal₽	
2₽	2483.50	39.13₽	46.82₽	7.69₽	54.00₽	7.18₽	AV₽	Horizontal₽	
3₽	2488.30	45.31₽	53.03₽	7.72₽	74.00₽	20.97₽	PK₽	Horizontal₽	
4 0	2488.46	37.41₽	45.13₽	7.72₽	54.00₽	8.87₽	AV₽	Horizontal₽	
5₽	2493.83	45.13₽	52.89₽	7.76₽	74.00₽	21.11₽	PK₽	Horizontal₽	
6₽	2494.04	37.69₽	45.45₽	7.76₽	54.00₽	8.55₽	AV₽	Horizontal₽	

Remark:

- 3. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 4. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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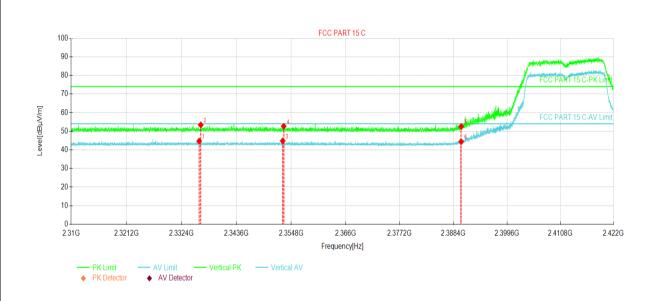




802.11g mode:

ANT1

Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



Suspected Data List∂								4
NO -	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limitℯ	Margin⊬	Tunna	Dolovitus
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace	Polarity₽
1₽	2335.97	37.82₽	44.72₽	6.90₽	54.00₽	9.28₽	AV₽	Vertical₽
2₽	2336.29	46.50₽	53.40₽	6.90₽	74.00₽	20.60₽	PK₽	Vertical₽
3₽	2353.06	37.83₽	44.79₽	6.96₽	54.00₽	9.21₽	AV₽	Vertical₽
4₽	2353.27	45.72₽	52.68₽	6.96₽	74.00₽	21.32₽	PK₽	Vertical₽
5₽	2390.01	45.47₽	52.55₽	7.08₽	74.00₽	21.45₽	PK₽	Vertical₽
6₽	2390.01	37.31₽	44.39₽	7.08₽	54.00₽	9.61₽	AV₽	Vertical₽

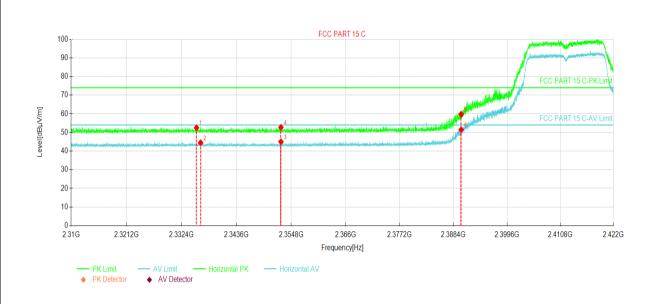
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Project No.: JYTSZE2109092



Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



Suspe	Suspected Data List								
NO -	Freq.⊌	Reading∉	Level⊬	Factor⊬	Limit⊬	Margin⊬	Т	Delevitor	
NO.₽	[MHz]	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity₽	
1₽	2335.42	45.58₽	52.48₽	6.90₽	74.00₽	21.52₽	PK₽	Horizontale 4	
2↩	2336.26	37.58₽	44.48₽	6.90₽	54.00₽	9.52₽	AV₽	Horizontal₽	
3₽	2352.70	38.07₽	45.02₽	6.95₽	54.00₽	8.98₽	AV₽	Horizontal₽	
4 🕫	2352.70	45.77₽	52.72₽	6.95₽	74.00₽	21.28₽	PK₽	Horizontal₽	
5⇔	2390.01	52.68₽	59.76₽	7.08₽	74.00₽	14.24₽	PK₽	Horizontal₽	
6₽	2390.01	44.40₽	51.48₽	7.08₽	54.00₽	2.52₽	AV₽	Horizontal -	

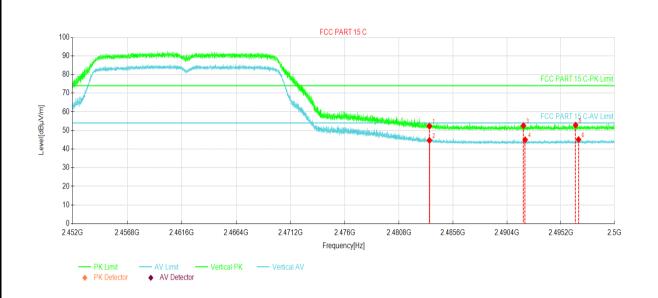
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2	
Test By:	Mike	Test mode:	802.11g Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%	



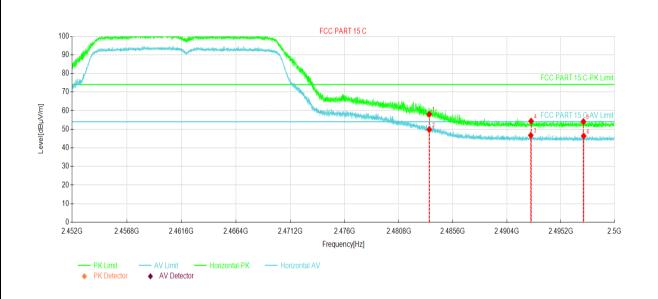
Suspected Data List∂								
NO.₽	Freq.⊬ [MHz]∂	Reading⊬ [dBµV/m]⊮	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity
1₽	2483.50	44.61₽	52.30₽	7.69₽	74.00₽	21.70₽	PK₽	Vertical₽
2₽	2483.50	36.99₽	44.68₽	7.69₽	54.00₽	9.32₽	AV₽	Vertical₽
3₽	2491.87	44.81₽	52.55₽	7.74₽	74.00₽	21.45₽	PK₽	Vertical₽
4 0	2492.02	37.22₽	44.96₽	7.74₽	54.00₽	9.04₽	AV₽	Vertical₽
5⇔	2496.52	45.08₽	52.86₽	7.78₽	74.00₽	21.14	PK₽	Vertical₽
6₽	2496.78	37.30₽	45.08₽	7.78₽	54.00₽	8.92₽	AV₽	Vertical₽

Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Susp	Suspected Data List								
NO.₽	Freq.	Reading	Level	Factor∉	Limit⊬	Margin⊬	Trace₽	Polarity∂	
NO.	[MHz]∂	[dBµV/m]∂	[dBµV/m]₽	[dB]₽	[dBµV/m]∂	[dB]₽	11doc-	1 olarity*	
1₽	2483.50	50.35₽	58.04₽	7.69₽	74.00₽	15.96₽	PK₽	Horizontal₽	
2₽	2483.50	42.05₽	49.74₽	7.69₽	54.00₽	4.26₽	AV₽	Horizontal₽	
3₽	2492.53	38.98₽	46.73₽	7.75₽	54.00₽	7.27₽	AV₽	Horizontal₽	
4 0	2492.56	46.62₽	54.37₽	7.75₽	74.00₽	19.63₽	PK₽	Horizontal₽	
5↔	2497.22	46.33₽	54.11₽	7.78₽	74.00₽	19.89₽	PK₽	Horizontal₽	
6₽	2497.24	38.58₽	46.36₽	7.78₽	54.00₽	7.64₽	AV₽	Horizontal₽	

Remark:

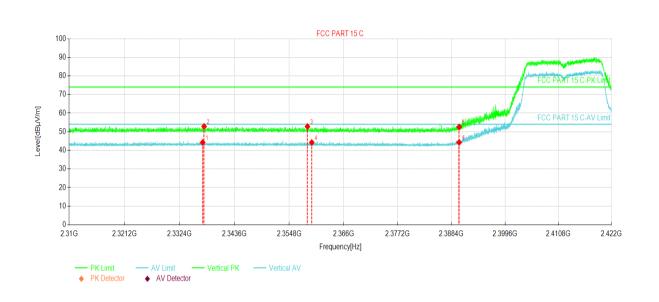
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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ANT2

Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



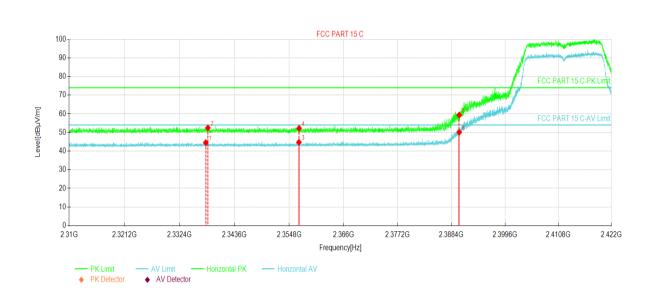
Susp	Suspected Data List∂								
NO.₽	Freq.	Reading	Level	Factor⊬	Limit⊬	Margin⊬	Trace	Polarity <i></i>	
NO.	[MHz]∂	[dBµV/m]∂	[dBµV/m]₽	[dB]₽	[dBµV/m]∂	[dB]∂	Hace	1 Olarity	
1₽	2337.09	37.32₽	44.22₽	6.90₽	54.00₽	9.78₽	AV₽	Vertical₽	
2↔	2337.38	45.94₽	52.84₽	6.90₽	74.00₽	21.16₽	PK₽	Vertical₽	
3₽	2358.56	45.80₽	52.77₽	6.97₽	74.00₽	21.23₽	PK₽	Vertical₽	
4₽	2359.44	37.20₽	44.18₽	6.98₽	54.00₽	9.82₽	AV₽	Vertical₽	
5₽	2390.01	45.47₽	52.55₽	7.08₽	74.00₽	21.45₽	PK₽	Vertical₽	
6₽	2390.01	37.18₽	44.26₽	7.08₽	54.00₽	9.74₽	AV₽	Vertical₽	

Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



Susp	Suspected Data List∂								
NO.₽	Freq.⊬ [MHz]₽	Reading√ [dBµV/m]∂	Level⊲ [dBµV/m]⊲	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity₽	
1₽	2337.72	37.60₽	44.50₽	6.90₽	54.00₽	9.50₽	AV₽	Horizontal₽	
2₽	2338.15	45.52₽	52.43₽	6.91₽	74.00₽	21.57₽	PK₽	Horizontal₽	
3₽	2356.80	37.75₽	44.72₽	6.97₽	54.00₽	9.28₽	AV₽	Horizontal₽	
4 0	2356.84	45.23₽	52.20₽	6.97₽	74.00₽	21.80₽	PK₽	Horizontal₽	
5₽	2390.01	52.24₽	59.32₽	7.08₽	74.00₽	14.68₽	PK₽	Horizontal₽	
6₽	2390.01	42.99₽	50.07₽	7.08₽	54.00₽	3.93₽	AV₽	Horizontal₽	

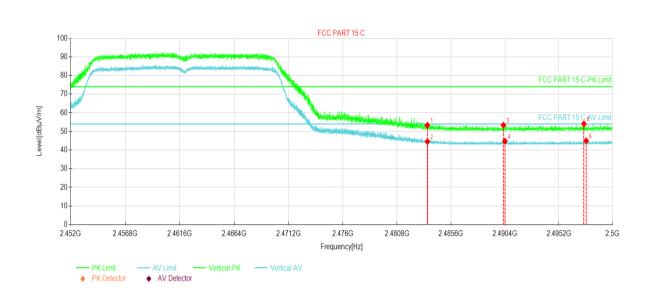
Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2	
Test By:	Mike	Test mode:	802.11g Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%	



Suspe	Suspected Data List							
NO.	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limit⊬	Margin⊬	Т	Delevitore
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity₽
1₽	2483.50	45.60₽	53.29₽	7.69₽	74.00₽	20.71₽	PK₽	Vertical₽
2₽	2483.50	36.86₽	44.55₽	7.69₽	54.00₽	9.45₽	AV₽	Vertical₽
3₽	2490.25	45.62₽	53.35₽	7.73₽	74.00₽	20.65₽	PK₽	Vertical₽
4₽	2490.39	37.05₽	44.78₽	7.73₽	54.00₽	9.22₽	AV₽	Vertical₽
5₽	2497.44	46.29₽	54.07₽	7.78₽	74.00₽	19.93₽	PK₽	Vertical₽
6₽	2497.64	37.17₽	44.95₽	7.78₽	54.00₽	9.05₽	AV₽	Vertical₽

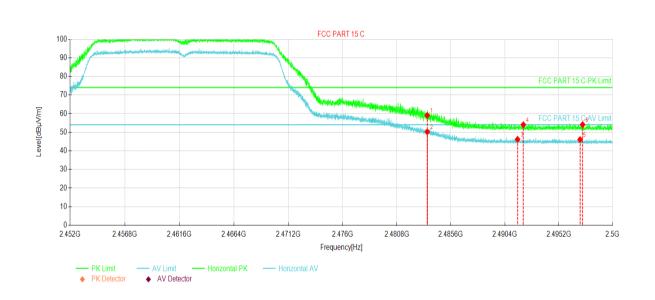
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Susp	Suspected Data List								
NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∂	Level⊲ [dBµV/m]⊲	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity∉	
1₽	2483.50	51.35₽	59.04₽	7.69₽	74.00₽	14.96₽	PK₽	Horizontal₽	
2₽	2483.50	42.50₽	50.19₽	7.69₽	54.00₽	3.81₽	AV₽	Horizontal₽	
3₽	2491.52	38.44₽	46.18₽	7.74₽	54.00₽	7.82₽	AV₽	Horizontal₽	
4 +2	2492.04	46.28₽	54.03₽	7.75₽	74.00₽	19.97₽	PK₽	Horizontal₽	
5⇔	2497.10	38.27₽	46.05₽	7.78₽	54.00₽	7.95₽	AV₽	Horizontal₽	
6₽	2497.33	46.29₽	54.07₽	7.78₽	74.00₽	19.93₽	PK₽	Horizontal₽	

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

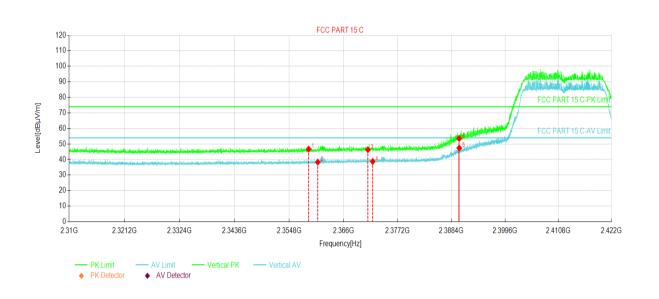
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802.11n(HT20):

MIMO:

Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List								
NO a	Freq.⊌	Reading⊎	Level⊬	Factor⊎	Limit⊬	Margin⊎	T	Delegitus	
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]₽	Trace₽	Polarity₽	
1₽	2358.80	39.74₽	46.71₽	6.97₽	74.00₽	27.29₽	PK₽	Vertical₽	
2↩	2360.69	31.35₽	38.33₽	6.98₽	54.00₽	15.67₽	AV₽	Vertical₽	
3↩	2371.04	39.29₽	46.30₽	7.01₽	74.00₽	27.70₽	PK₽	Vertical₽	
4↔	2372.03	31.71₽	38.73₽	7.02₽	54.00₽	15.27₽	AV₽	Vertical₽	
5↔	2390.01	40.33₽	47.41₽	7.08₽	54.00₽	6.59₽	AV₽	Vertical₽	
6↩	2390.01	46.49₽	53.57₽	7.08₽	74.00₽	20.43₽	PK₽	Vertical₽	

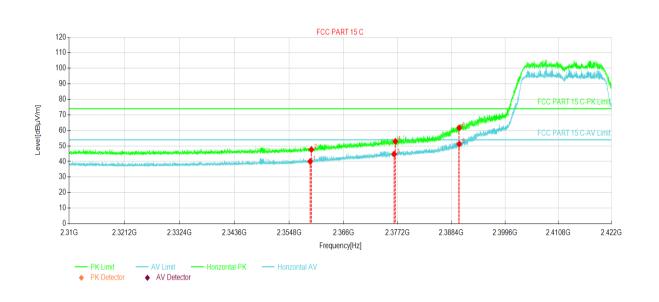
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List								
NO -	Freq.⊌	Reading⊎	Level⊬	Factor⊎	Limit⊬	Margin⊎	Т	Deleder	
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]₽	[dB]∂	[dBµV/m]∂	[dB]₽	Trace₽	Polarity₽	
1₽	2359.12	33.03₽	40.01₽	6.98₽	54.00₽	13.99₽	AV₽	Horizontal₽	
2↩	2359.37	40.68₽	47.66₽	6.98₽	74.00₽	26.34₽	PK₽	Horizontal₽	
3↩	2376.48	37.71₽	44.74₽	7.03₽	54.00₽	9.26₽	AV₽	Horizontal₽	
4↔	2376.73	45.93₽	52.96₽	7.03₽	74.00₽	21.04₽	PK₽	Horizontal₽	
5↔	2390.01	44.14₽	51.22₽	7.08₽	54.00₽	2.78₽	AV₽	Horizontal₽	
6↩	2390.01	54.55₽	61.63₽	7.08₽	74.00₽	12.37₽	PK₽	Horizontal₽	

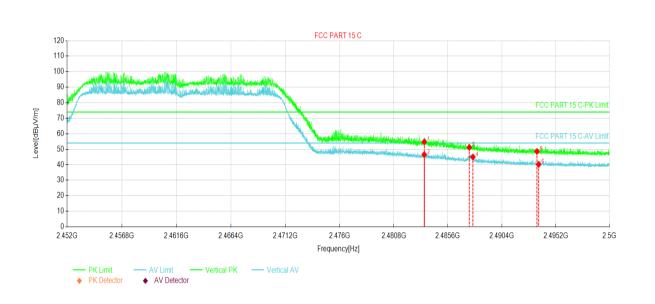
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2	
Test By:	Mike	Test mode: 802.11n(HT20) Tx r		
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%	



Suspe	Suspected Data List								
NO.₽	Freq.⊌	Reading⊍	Level⊎	Factor⊍	Limit∉	Margin⊎	Trace₽	Polarity <i>∂</i>	
NO.♥	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∉	Hace	Folanty	
1₽	2483.50	47.06₽	54.75₽	7.69₽	74.00₽	19.25₽	PK₽	Vertical₽	
24□	2483.50	38.84₽	46.53₽	7.69₽	54.00₽	7.47₽	AV₽	Vertical₽	
3₽	2487.50	43.46₽	51.17₽	7.71₽	74.00₽	22.83₽	PK₽	Vertical₽	
4↔	2487.82	37.30₽	45.02₽	7.72₽	54.00₽	8.98₽	AV₽	Vertical₽	
54□	2493.53	40.80₽	48.56₽	7.76₽	74.00₽	25.44₽	PK₽	Vertical₽	
64□	2493.67	32.41₽	40.17₽	7.76₽	54.00₽	13.83₽	AV₽	Vertical₽	

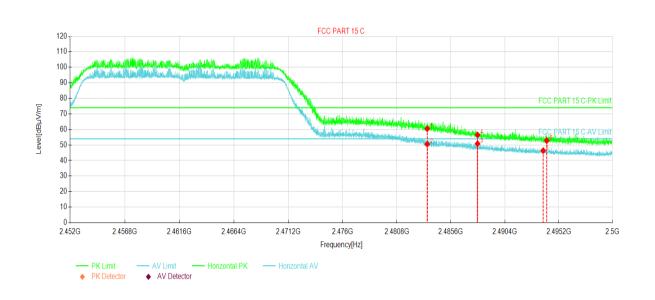
Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



Suspe	Suspected Data Liste								
NO.	Freq.⊌	Reading⊎	Level⊬	Factor⊎	Limit⊬	Margin⊎	Τ	e Polaritye	
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]₽	[dBµV/m]∂	[dB]₽	Trace∉		
1₽	2483.50	52.78₽	60.47₽	7.69₽	74.00₽	13.53₽	PK₽	Horizontal₽	
2↔	2483.50	42.85₽	50.54₽	7.69₽	54.00₽	3.46₽	AV₽	Horizontal₽	
3↩	2487.97	43.10₽	50.82₽	7.72₽	54.00₽	3.18₽	AV₽	Horizontal₽	
4 42	2487.97	48.73₽	56.45₽	7.72₽	74.00₽	17.55₽	PK₽	Horizontal₽	
5↔	2493.81	38.60₽	46.36₽	7.76₽	54.00₽	7.64₽	AV₽	Horizontal₽	
64□	2494.13	45.05₽	52.81₽	7.76₽	74.00₽	21.19₽	PK₽	Horizontal₽	

Remark:

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	NS173B NS182P NS182P					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Measurement Data:	Refer to Appendix A - 2.4G WIFI					

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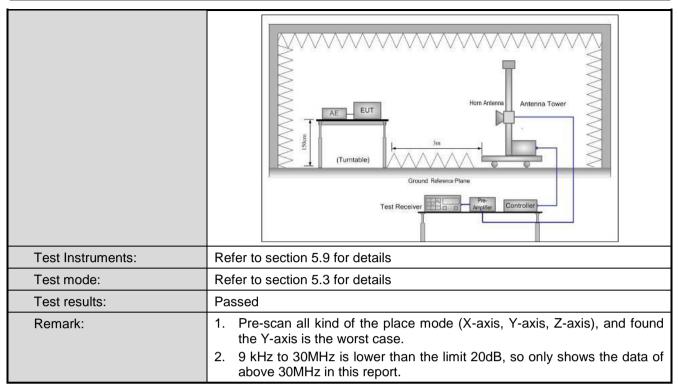
6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Se	ction 15.	.209 an	nd 15.205			
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency	Detec	ctor	RBW VBW Ren			Remark
·	30MHz-1GHz	Quasi-	peak	120KHz	300)KHz	Quasi-peak Value
	Above 1GHz	Pea		1MHz	31	ИHz	Peak Value
		RM		1MHz		ИHz	Average Value
Limit:	Frequency		Limi	t (dBuV/m @3	m)		Remark
	30MHz-88MH			40.0			uasi-peak Value
	88MHz-216MH			43.5			uasi-peak Value
	216MHz-960M			46.0			uasi-peak Value
	960MHz-1GH	Z		54.0			uasi-peak Value
	Above 1GHz	<u>.</u>		54.0 74.0		· '	Average Value Peak Value
Test Procedure:	The table was highest radiated. 2. The EUT was antenna, which tower. 3. The antenna ground to det horizontal and measuremen. 4. For each sus and then the and the rota to maximum reas. 5. The test-rece Specified Bar. 6. If the emission limit specified the EUT would the radiated the second the second the second the second the second to the second	above 10 s rotated tion. s set 3 m ch was m height is ermine the divertical t. pected e antenna able was ading. iver system dwidth was not level of l, then teld be repwould be	Hz) at 360 de eters a nounted varied he max in mission was turned et turned et turned et turned et turned et	way from the don the top of from one medimum value of the top of t	e inter of a value as arre es fror ees to Dete Mode iode v oed ar ee emis ne us	ta 3 mile the professions ing pear	eter chamber. Position of the e-receiving Cheight antenna neters above the trength. Both e set to make the to its worst case ter to 4 meters degrees to find the ection and dB lower than the peak values of that did not have ak, quasi-peak or
Test setup:	Below 1GHz EUT Turn Table Ground I	3m → 3m → 0.8m				Ant	tenna Tower Search ntenna

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Project No.: JYTSZE2109092





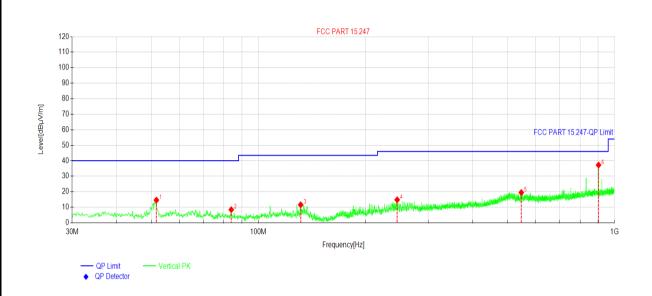
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Measurement Data (worst case):

Below 1GHz:

Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 11.4V	Environment:	Temp: 24°C Huni: 57%



Suspe	Suspected Data List												
NO.₽	Freq.⊬ [MHz]⊬	Reading[d BµV/m]∂	Level⊬ [dBµV/m]∂	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace	Polarity₽					
1₽	51.7302₽	31.68₽	14.62₽	-17.06₽	40.00₽	25.38₽	PK₽	Vertical₽					
2₽	83.9374	27.99₽	8.43	-19.56₽	40.00₽	31.57₽	PK₽	Vertical₽					
3₽	131.472	31.01₽	11.62₽	-19.39₽	43.50₽	31.88₽	PK₽	Vertical₽					
4₽	245.361	30.37₽	14.82₽	-15.55₽	46.00₽	31.18₽	PK₽	Vertical₽					
5₽	547.449	29.05₽	19.51₽	-9.54₽	46.00₽	26.49₽	PK₽	Vertical₽					
6₽	902.117	41.17₽	37.23₽	-3.94₽	46.00₽	8.77₽	PK₽	Vertical₽					

Remark:

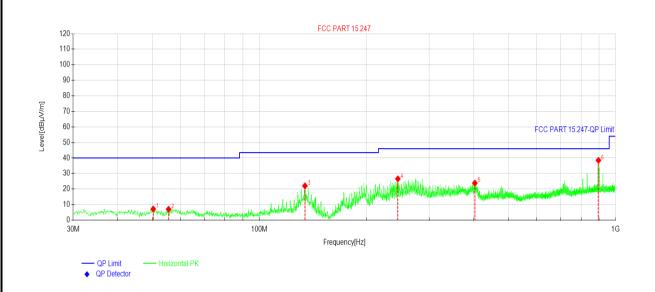
- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	DragonFish Ground Control Station	Product Model:	DFRC-2
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 11.4V	Environment:	Temp: 24℃ Huni: 57%



Suspe	Suspected Data List∂												
NO.₽	Freq.⊬ [MHz]⊬	Reading[d BµV/m]∂	Level- [dBµV/m]-	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace∂	Polarity∉					
1₽	50.3720₽	24.28₽	7.17₽	-17.11₽	40.00₽	32.83₽	PK₽	Horizontal₽					
2₽	55.6106₽	23.97₽	7.01₽	-16.96₽	40.00₽	32.99₽	PK₽	Horizontal₽					
3₽	134.285	41.65₽	22.04₽	-19.61₽	43.50₽	21.46	PK₽	Horizontal₽					
4₽	244.876	42.17₽	26.59₽	-15.58₽	46.00₽	19.41₽	PK₽	Horizontal₽					
5₽	402.808	36.20₽	23.84₽	-12.36₽	46.00₽	22.16₽	PK₽	Horizontal₽					
6₽	895.617	42.48₽	38.49₽	-3.99₽	46.00₽	7.51₽	PK₽	Horizontal₽					

Remark

- 1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Above 1GHz

ANT1

			802.11b			
			annel: Lowest ch			
		De	tector: Peak Valu		T	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	55.91	-9.46	46.45	74.00	27.55	Vertical
4824.00	54.84	-9.46	45.38	74.00	28.62	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	48.67	-9.46	39.21	54.00	14.79	Vertical
4824.00	48.03	-9.46	38.57	54.00	15.43	Horizonta
		Test ch	annel: Middle ch	annel		
		De	tector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	55.98	-9.11	46.87	74.00	27.13	Vertical
4874.00	54.85	-9.11	45.74	74.00	28.26	Horizonta
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	48.89	-9.11	39.78	54.00	14.22	Vertical
4874.00	47.98	-9.11	38.87	54.00	15.13	Horizonta
		Test ch	annel: Highest cl	nannel		
		De	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	56.42	-8.74	47.68	74.00	26.32	Vertical
4924.00	55.03	-8.74	46.29	74.00	27.71	Horizonta
	•	Dete	ctor: Average Va	lue		
Frequency	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
(MHz)			40.40	F4.00	13.88	Vertical
4924.00	48.86	-8.74	40.12	54.00	13.00	Vertical

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The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





ANT2

ANT2						
			802.11b			
		Test ch	annel: Lowest ch	nannel		
		De	tector: Peak Valu	re		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	55.21	-9.46	45.75	74.00	28.25	Vertical
4824.00	55.14	-9.46	45.68	74.00	28.32	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	46.51	-9.46	37.05	54.00	16.95	Vertical
4824.00	47.58	-9.46	38.12	54.00	15.88	Horizontal
		Test ch	annel: Middle ch	nannel		
		De	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	55.40	-9.11	46.29	74.00	27.71	Vertical
4874.00	55.08	-9.11	45.97	74.00	28.03	Horizontal
	•	Dete	ctor: Average Va	alue	•	•
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	46.52	-9.11	37.41	54.00	16.59	Vertical
4874.00	47.37	-9.11	38.26	54.00	15.74	Horizontal
			annel: Highest c			
		De	tector: Peak Valu	ue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	55.34	-8.74	46.60	74.00	27.40	Vertical
4924.00	54.71	-8.74	45.97	74.00	28.03	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	46.30	-8.74	37.56	54.00	16.44	Vertical
4924.00	47.77	-8.74	39.03	54.00	14.97	Horizontal
Remark:	•				•	•

Remark:

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^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





ANT

ANT1						
			802.11g			
		Test ch	annel: Lowest ch	nannel		
		De	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	55.62	-9.46	46.16	74.00	27.84	Vertical
4824.00	54.26	-9.46	44.80	74.00	29.20	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	47.35	-9.46	37.89	54.00	16.11	Vertical
4824.00	47.56	-9.46	38.10	54.00	15.90	Horizontal
			annel: Middle ch			
		De	tector: Peak Valu	ie		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	55.17	-9.11	46.06	74.00	27.94	Vertical
4874.00	54.59	-9.11	45.48	74.00	28.52	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	46.90	-9.11	37.79	54.00	16.21	Vertical
4874.00	47.32	-9.11	38.21	54.00	15.79	Horizontal
		Test ch	annel: Highest cl	nannel		
		De	tector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	55.38	-8.74	46.64	74.00	27.36	Vertical

46.27

Detector: Average Value

Level

(dBuV/m)

37.74

38.44

74.00

Limit Line

(dBuV/m)

54.00

54.00

27.73

Margin

(dB)

16.26

15.56

Po	ma	rl

4924.00

Frequency

(MHz)

4924.00

4924.00

55.01

Read Level

(dBuV)

46.48

47.18

-8.74

Factor(dB)

-8.74

-8.74

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Project No.: JYTSZE2109092

Horizontal

Polarization

Vertical

Horizontal

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





AN I 2										
			802.11g							
		Test ch	annel: Lowest ch	nannel						
		De	tector: Peak Valu	re						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4824.00	54.83	-9.46	45.37	74.00	28.63	Vertical				
4824.00	54.61	-9.46	45.15	74.00	28.85	Horizontal				
		Dete	ctor: Average Va	alue						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4824.00	47.05	-9.46	37.59	54.00	16.41	Vertical				
4824.00	47.22	-9.46	37.76	54.00	16.24	Horizontal				
		Test ch	annel: Middle ch	nannel						
		De	tector: Peak Valu	re						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				

rest charmer. Middle charmer										
	Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4874.00	55.26	-9.11	46.15	74.00	27.85	Vertical				
4874.00	54.80	-9.11	45.69	74.00	28.31	Horizontal				
		Dete	ctor: Average Va	alue						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4874.00	47.24	-9.11	38.13	54.00	15.87	Vertical				
4874.00	46.77	-9.11	37.66	54.00	16.34	Horizontal				

Test channel: Highest channel							
Detector: Peak Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	55.46	-8.74	46.72	74.00	27.28	Vertical	
4924.00	55.23	-8.74	46.49	74.00	27.51	Horizontal	
Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	47.23	-8.74	38.49	54.00	15.51	Vertical	
4924.00	46.40	-8.74	37.66	54.00	16.34	Horizontal	

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Final Level = Receiver Read level + Factor.

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802.11n(HT20)-MIMO							
Test channel: Lowest channel							
Detector: Peak Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4824.00	53.64	-9.46	44.18	74.00	29.82	Vertical	
4824.00	55.00	-9.46	45.54	74.00	28.46	Horizontal	
Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4824.00	46.69	-9.46	37.23	54.00	16.77	Vertical	
4824.00	47.52	-9.46	38.06	54.00	15.94	Horizontal	
7027.00	77.02	0.40	33.00	04.00	10.54	Tionzontai	

		Test ch	nannel: Middle ch	nannel				
		De	tector: Peak Valu	ue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	54.12	-9.11	45.01	74.00	28.99	Vertical		
4874.00	55.38	-9.11	46.27	74.00	27.73	Horizontal		
	Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization		
4874.00	46.22	-9.11	37.11	54.00	16.89	Vertical		
4874.00	47.70	-9.11	38.59	54.00	15.41	Horizontal		

Test channel: Highest channel							
Detector: Peak Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	53.93	-8.74	45.19	74.00	28.81	Vertical	
4924.00	55.67	-8.74	46.93	74.00	27.07	Horizontal	
Detector: Average Value							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization	
4924.00	46.53	-8.74	37.79	54.00	16.21	Vertical	
4924.00	47.68	-8.74	38.94	54.00	15.06	Horizontal	

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Final Level = Receiver Read level + Factor.

The emission levels of other frequencies are lower than the limit 20dB and not show in test report.