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# **TEST REPORT**

FCC ID: 2AR7Q-DF801

**Product: Drone** 

Model No.: DF801

Additional Model No.: N/A

Trade Mark:

4

Report No.: FCC18080075A-15B

Issued Date: Dec. 24, 2018

Issued for:

ShenZhen C-Fly Intelligent Technology Co.,Ltd

6th Floor,A1 building,New Modern GongRong Industrial Zone,ShiHuan 2nd
Rd,ShiLong commiunity,ShiYan street,Ban'an District,ShenZhen City

Issued By:

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# 1. GENERAL INFORMATION

Product:	Drone	777
Model No.:	DF801	i Red
Trade Mark	(FLYA)	
Additional Model:	N/A WSET WSET	y day jamah amah mya
Applicant:	ShenZhen C-Fly Intelligent Technology Co.,Ltd	1
Address:	6th Floor,A1 building,New Modern GongRong Industrial Zone,ShiHuan Rd,ShiLong commiunity,ShiYan street,Ban'an District,ShenZhen City	2nd
Manufacturer:	ShenZhen C-Fly Intelligent Technology Co.,Ltd	475
Address:	6th Floor,A1 building,New Modern GongRong Industrial Zone,ShiHuan Rd,ShiLong commiunity,ShiYan street,Ban'an District,ShenZhen City	2nd
Data of receipt	Sep. 10, 2018	
Date of Test:	Nov. 10, 2018 to Dec. 21, 2018	
Applicable Standards:	FCC Rules Part15 Subpart B.	1

The above equipment has been tested by World Standardization Certification found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Date: Dec.24, 2018

Check By:

Qin Shuiguan

(Qin Shuiquan)

(Wang Fengbing)

Approved By:

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2. GENERAL DESCRIPTION OF FUT

۷.	GENERALI	DESCRIPTION OF EUT	
	Equipment Type:	Drone Street With Volume Www.wsct-cert.go	
_	Test Model:	DF801W5C7	5/
	Additional Model:	N/A	
	Trade Mark	FLYA WSET WSET	
	Hardware version:	Dream-Main_Board-V1.6	
	Software version:	dream-v3.6-2018.7.28	^
_	Extreme Temp. Tolerance:	-10℃ to +55℃	72
	Adapter Information:	Secondary Lithium Battery Pack Model No: D01004 Nominal Voltage: 11.4V 7	
		Rated Capacity: 1000mAh Max Charge Voltage: 13.05V	
_		Adapter: H01002 nput: AC 110-220V~50/60Hz0.6A Output: DC 13.5V1.2A	5/
	Deviation	None	
\	Condition of Test Sample	Normal	
			_



WSET

ZWSET

AWSET

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# 2.1. TEST DESCRIPTION 2.1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately  $\mathbf{95}$  %.

approxima	ately <b>95</b> %	60	X	X
WSET	No.	Item WSCT	Uncertainty	WSET
	1	Conducted Emission Test	±3.2dB	
X	2	RF power, conducted	±0.16dB	X
WSE	3	Spurious emissions, conducted	±0.21dB	WSET
	4	All emissions, radiated(<1G)	±4.7dB	
X	5	All emissions, radiated(>1G)	±4.7dB	X
WSET	6	Temperature	±0.5°C	WSET
11361	7	Humidity	±2%	
X		$\times$	X	X
W5E		WSET WSE	WSET	MEET
100		NA INCIDENTAL PROPERTY OF THE		
X		X	X	X
WSIT	- Kur	WSET WSET	WSET	WSET
X		$\times$	( X	X
Augus		hard hard	August 1	Augus
WSE		WSET* WSE	WSET <sup>®</sup>	WSL
$\times$		X	X	$\times$
	/			
WSET	- W	SET WSET	WSET	WSET
$\times$		$\times$		$\times$
W5E		W5ET W5L	WSET <sup>®</sup>	WSET
$\sim$		$\times$	$\sim$	$\times$
WSET	W	SET° WSET°	WSET	WSET
$\sim$				
Certification	*	W5ET° W5E	TT WSET	WSET
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## 2.1.2 DESCRIPTION OF TEST MODES

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To investigate the maximum EMI emission characteristics generates from EUT, the test system consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

opera	ation mode(s) or test co	onfiguration mode(s) mentioned a	above was evaluated respec	ctively.
Average and the second	Pretest Mode	Descrip	tion	
ZWSU	Mode 1	Exchange data w	vith computer	
		For Conducted Emission	1	
WSL	Final Test Mode	Test with Keyboar	rd and Mouse	WSET
	Mode 1	Exchange data w	vith computer	
WSET		For Radiated Emission		T
	Final Test Mode	Test with Keyboar	rd and Mouse	
	Mode 1	Exchange data w	vith computer	
W5L	T W	ET WSET	WSET	WSET
WSU	WSET	WSET	WSET	WSET
WSET	WSET	WSET	W5ET W	5.67
W5L	7 W	WSET	WSET	WSET
WSET	W5ET°		$\times$	567
$\rightarrow$		SET WSET	WSET	WSET
De WSET	P Resulting Group		$\times$	567

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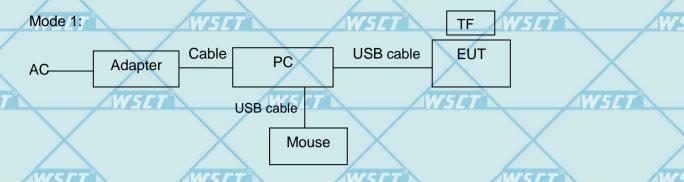






#### 2.1.3 CONFIGURATION OF SYSTEM UNDER TEST

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(EUT: Drone)

I/O Port of EUT							
I/O Port Type	Q'TY	Cable	Tested with				
Power WSET	1 W	USB cable, unshielded	1				
UTP	2	unshielded	2				

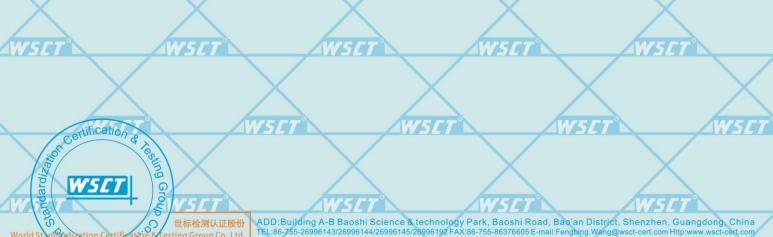
# 2.1.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	PC	lenovo	TP00067A	1	1
4	3	Mouse	DELL	MS111-1		W JL I

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>FLength\_</code> column.



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# 3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

/		FCC Part15 , Subpart B			/
	Standard Section	Test Item	Judgment	Remark	
	15.107	CONDUCTED EMISSION	PASS		
	15.109	RADIATED EMISSION	PASS		

N	$\cap$	т	ᆮ	
I٧	$\cup$		ᆮ	

	(1)" N/A" denotes test i	s not applicable in this	s test report.	/	
WSET	W5ET*	W5ET*	W5CT <sup>®</sup>	W	SET
	NSET	VSET"	WSET	WSET	WSET
X	X	X	X	,	X
WSET	WSET	WSET	WSET	W	SET
	X	X	X	X	X
	WSET 1	NSET .	WSET	WSCT	WSET
X	X	X	X		X
WSET	WSET	WSET	WSET	\/w	SCT°
21719	111111111111111111111111111111111111111				
	X	X	X	X	X
	WELL	WEET	WELL	MIRET	WSET
	WSET	WSET*	WSET	WSLT	Wall
$\times$	X	X	X		X
WSET	WSET	W5ET*	W5ET*	W	SET°
	$\times$	$\times$	$\times$	$\times$	$\times$
Certif		W5ET*	WSET	WSET	W5ET*
The state of the s	C C Z L Seguino		$\sim$		$\times$
a ard	5 <i>CT</i>   e				
W. Stemdardizelli	SCT OF VSCT	W5ET	W5ET		SET
World Standard Zatio	世标检测认证股份 on Certification & Testing Group Co.,Ltd.	TEL:86-755-26996143/26996144/2699	nce & technology Park, Baoshi Roa 6145/26996192 FAX:86-755-86376605 E-m	u, bao an District, Shenzi nail:Fengbing.Wang@wsct-cert	
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## 4 MEASUREMENT INSTRUMENTS

•	T. IVILASUITLIVILIV	AL INSTITUTE	1413			www.wsct-cert.com	
	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	9
	ESCI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019	l
	LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019	l
0	LISN(EUT) 5 CT	Mestec W5/	AN3016	04/10040	08/19/2018	08/18/2019	L
	pre-amplifier	CDSI	PAP-1G18-38		08/19/2018	08/18/2019	
	System Controller	СТ	SC100	-	08/19/2018	08/18/2019	
	Bi-log Antenna	Chase	CBL6111C	2576	08/19/2018	08/18/2019	9
7	Spectrum analyzer	R&S	FSU26	200409	08/19/2018	08/18/2019	ı
	Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2018	08/18/2019	l
0	Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	08/19/2018	08/18/2019	ĺ
	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019	
	9*6*6 Anechoic	Χ	X		08/21/2018	08/20/2019	<

	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019	
	9*6*6 Anechoic	X	X	1	08/21/2018	08/20/2019	
	WSET	WSET	WSET	V	ISET	W5	ET.
X	$\times$	$\rightarrow$		$\times$			
WSET	WSET	WS	77	WSET	W/S	CT.	
	$\times$	$\times$	X		$\times$		$\langle$
	W5ET*	WSET	WSET	V	15ET	W5	ET°
WSET	WSET	WS		WSET	W	TET .	
	WSET	WSET	WSET		VSET .	WS	
WSET	WSET	WS		WSET		167	
	X	WSET	WSET		VSET*		CT <sup>2</sup>
in in the second	entification & long						

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# 5. EMC EMISSION TEST

## 5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
FREQUENCY (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
W5/5.0-30.0	73.00	60.00	<b>60.00</b>	50.00	FCC

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

	The remediate grant to the extension	0000.		
	Receiver Parameters		Setting	
7	Attenuation		10 dB	
	Start Frequency	X	0.15 MHz	X
	Stop Frequency		30 MHz	
7	IF Bandwidth	/5/T°	W5 / 9 kHz	AWSET"

WSET	WSET	WSET	WSET	WSET
WSET	SET WS	W5	W.S	<i>(1)</i>
WSET	WSET	WSET	WSET	WSET
	SET WS			757
$\times$	WSET	WSET	WSET	WSET
Certification & Regulation of				

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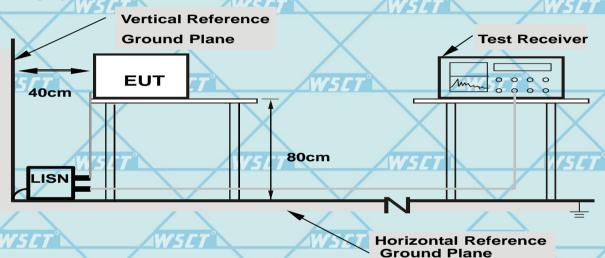
#### **5.1.2 TEST PROCEDURE**

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being confected near with WSCT to the power mains through a line impedance stabilization network (LISN). All other support west-cert.com equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 5.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 5.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.







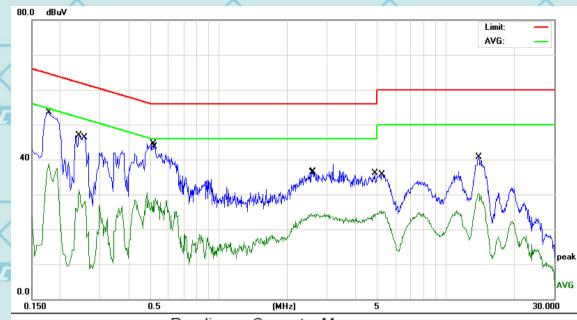


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Temperature	26 ℃	Relative Humidity	E/10/	Contact with WSCT w.wsct-cert.com
Pressure	1010hPa	Phase	L/N	Augus
Test Mode	Mode 1		VSLI	WSLI

L:

5.1.6 TEST RESULTS



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1	×	0.1780	43.09	10.45	53.54	64.57	-11.03	QP
C	2		0.1780	28.49	10.45	38.94	54.57	-15.63	AVG
Ī	3		0.2420	20.82	10.46	31.28	52.02	-20.74	AVG
Ī	4		0.2589	33.01	10.46	43.47	61.46	-17.99	QP
	5		0.5180	33.96	10.52	44.48	56.00	-11.52	QP
	6		0.5260	18.34	10.52	28.86	46.00	-17.14	AVG
	7		2.5660	13.88	10.72	24.60	46.00	-21.40	AVG
Ľ	8		2.6060	25.75	10.72	36.47	56.00	-19.53	QP
Ī	9		4.8540	25.42	10.74	36.16	56.00	-19.84	QP
Ī	10		5.1900	14.57	10.74	25.31	50.00	-24.69	AVG
	11		13.8700	19.21	11.12	30.33	50.00	-19.67	AVG
1	12		13.9260	29.65	11.12	40.77	60.00	-19.23	QP

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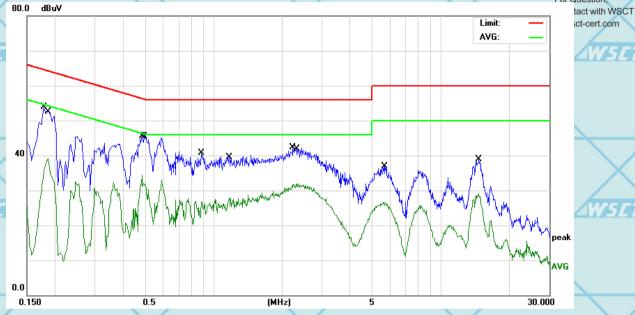


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Limit:



×	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
) L			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1	*	0.1780	43.54	10.45	53.99	64.57	-10.58	QP
	2		0.1860	28.63	10.45	39.08	54.21	-15.13	AVG
	3		0.4820	23.80	10.52	34.32	46.30	-11.98	AVG
×	4		0.4940	34.98	10.52	45.50	56.10	-10.60	QP
54	5		0.8820	30.10	10.54	40.64	56.00	-15.36	QP
	6		1.1740	17.26	10.58	27.84	46.00	-18.16	AVG
	7		2.2340	31.67	10.71	42.38	56.00	-13.62	QP
	8		2.3100	21.14	10.71	31.85	46.00	-14.15	AVG
×	9		5.6020	15.96	10.75	26.71	50.00	-23.29	AVG
	10		5.6660	26.18	10.75	36.93	60.00	-23.07	QP
54	11		14.6020	17.87	11.17	29.04	50.00	-20.96	AVG
	12		14.6780	27.72	11.18	38.90	60.00	-21.10	QP

WSET WSET WSET WSET

WSC7 Continuation & Page 18 Continuation & P

WSET

W5ET°

4W5E7

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#### 5.2 RADIATED EMISSION MEASUREMENT

## 5.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

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The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies	Field Strength	Measurement Distance			
(MHz)	(micorvolts/meter)	(meters)			
0.009~0.490	2400/F(KHz)	300			
0.490~1.705	24000/F(KHz)	30			
1.705~30.0 ws.	30 W5/T	30 /			
30~88	100	3			
88~216	150	3			
216~960	200	WELT 3			
Above 960	500	3			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENOV (MLI-)	Limit (dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	74	54 W.5		

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	<i>SET</i> W-1000 MHz W <i>SET</i>
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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#### **5.2.2 TEST PROCEDURE**

a. The measuring distance of at 3 m shall be used for measurements at frequency up to Temperature www.wsct-cert.com For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested W527 and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD
No deviation

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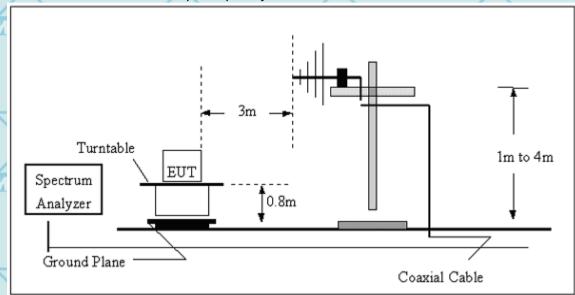




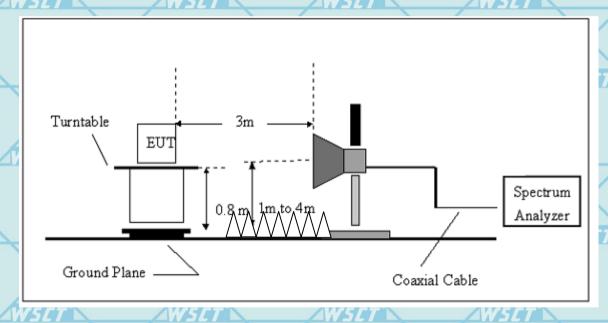
**5.2.4 TEST SETUP** 

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz

Please Contact with WSCT www.wsct-cert.com



(B) Radiated Emission Test-Up Frequency Above 1GHz



## 5.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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5.2.5.1 TEST RESULTS (Between 30M - 1000 MHz)

				For Question,
Temperature	20 ℃	Relative Humidity	48%	Please Contact with WSCT
Temperature	20 0	Trelative Fluirilaity	<del>1</del> 0 /0	www.wsct-cert.com
Pressure	1010 hPa	Polarization :	Horizonta	I/Vertical
				14/1/7
Test Mode	Mode 1			





_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	The same
,			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
V	1	1	33.0950	25.11	3.61	28.72	40.00	-11.28	QP
	2	4	63.0916	40.18	-6.46	33.72	40.00	-6.28	QP
	/3		104.1701	25.83	-3.01	22.82	43.50	-20.68	QP
	4		281.9946	41.45	-3.11	38.34	46.00	-7.66	QP
	5	1	336.0352	43.69	-1.97	41.72	46.00	-4.28	QP
	6	1	638.3686	30.99	1.40	32.39	46.00	-13.61	QP

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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE STATE OF
A.A			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	1	43.3534	31.12	-1.39	29.73	40.00	-10.27	QP
	2	*	63.5356	39.82	-6.49	33.33	40.00	-6.67	QP
	3		100.9339	24.47	-3.63	20.84	43.50	-22.66	QP
/	4		167.8243	33.26	-6.32	26.94	43.50	-16.56	QP
W	5	7	360.4476	33.61	-1.44	32.17	46.00	-13.83	QP
	6		638.3686	32.77	1.71	34.48	46.00	-11.52	QP

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## 5.2.5.2 TEST RESULTS (1GHz to 25GHz)

For Question,
Please Contact with WSCT
www.wsct-cert.com

Tei	mperature	20 °C//5/7°	Relative Humidity	48%
Pre	essure	1010 hPa	Test Mode	Mode 1

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		WEET	
	H/V	PK	AV	PK	AV	PK	AV
1685.99	V	58.52	40.86	74	54	-15.48	-13.14
2866.85	V	58.19	40.23	74	54	-15.81	-13.77
1658.49	H	59.23	40.90	74	54	-14.77	-13.10
2989.59	H/X	58.15	39.15	7-1-74	54	-15.85	-14.85

#### Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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	TET .	WSET	WSET	WSET	WSET
WSET	WSET	WSE			WSCT
	5/67	WSET	WSET	WSLT	WSET
WSET	WSET	WSE			WSET
	$\times$	WSET	WSET	WSLT	WSET
Certificat	7	X			X

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TESTING NVLAP LAB CODE 600142-0



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## CONDUCTED EMISSION TEST





6. EUT TEST PHOTO





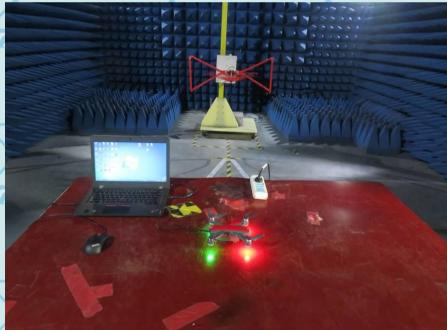




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TESTING
NVLAP LAB CODE 600142-0



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RADIATED EMISSION TEST

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