

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



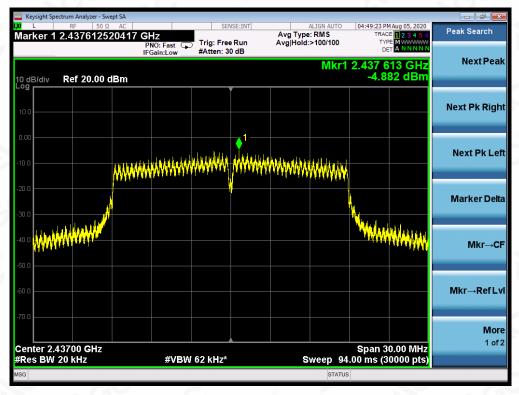
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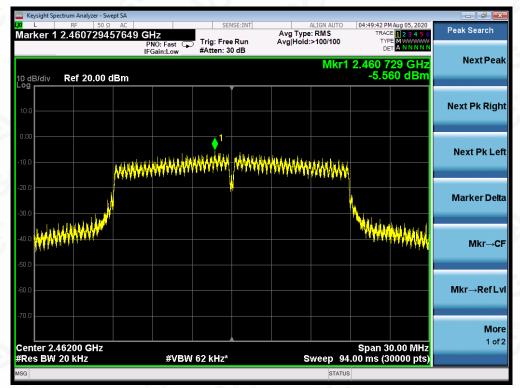
802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

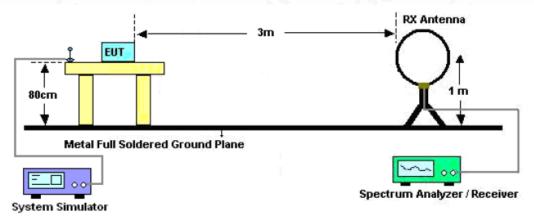
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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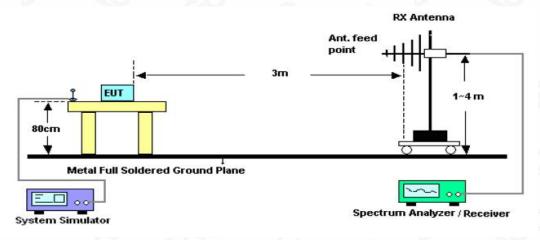


11.2. TEST SETUP

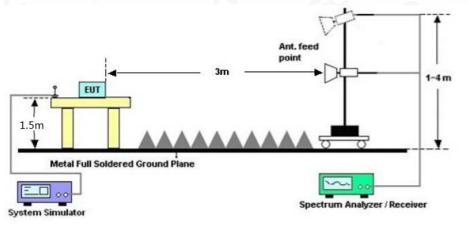
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

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

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The result of the lowest internal use/generated frequency to 30MHz is 20dB less than the limit.

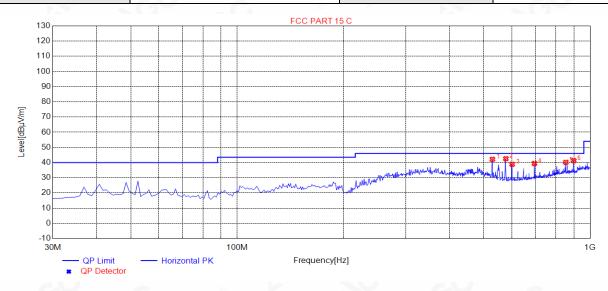
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RADIATED EMISSION BELOW 1GHZ

EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	528.5800	42.18	22.82	46.00	3.82	200	1	Horizontal
2	577.0800	42.58	23.84	46.00	3.42	200	258	Horizontal
3	601.3300	38.89	24.34	46.00	7.11	200	84	Horizontal
4	695.4200	39.43	25.90	46.00	6.57	100	110	Horizontal
5	853.5300	40.16	29.39	46.00	5.84	100	183	Horizontal
6	899.1200	41.26	30.11	46.00	4.74	200	311	Horizontal

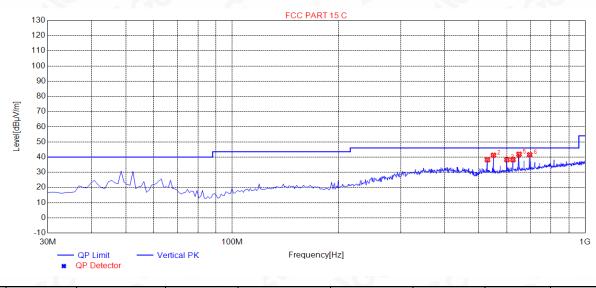
RESULT: PASS

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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	528.5800	38.19	22.82	46.00	7.81	100	272	Vertical
2	549.9200	41.23	23.26	46.00	4.77	100	269	Vertical
3	600.3600	38.28	24.33	46.00	7.72	100	196	Vertical
4	624.6100	38.25	24.76	46.00	7.75	100	266	Vertical
5	649.8300	41.90	25.17	46.00	4.10	100	259	Vertical
6	696.3900	41.53	25.91	46.00	4.47	100	283	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	55.13	0.08	55.21	74	-18.79	peak
4824.000	47.35	0.08	47.43	54	-6.57	AVG
7236.000	51.19	2.21	53.4	74	-20.6	peak
7236.000	42.58	2.21	44.79	54	-9.21	AVG
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Remark:		- C	8			<u> </u>
actor = Ante	enna Factor + Ca	able Loss –	Pre-amplifier.	®		

EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	56.94	0.08	57.02	74	-16.98	peak
4824.000	47.34	0.08	47.42	54	-6.58	AVG
7236.000	52.16	2.21	54.37	74	-19.63	peak
7236.000	43.49	2.21	45.7	54	8.3	AVG
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actor = Ante	enna Factor + Ca	able Loss – P	re-amplifier			

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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	55.34	0.14	55.48	74	-18.52	peak
4874.000	46.18	0.14	46.32	54	-7.68	AVG
7311.000	51.07	2.36	53.43	74	-20.57	peak
7311.000	42.32	2.36	44.68	54	-9.32	AVG
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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.28	0.14	46.42	74	-27.58	peak
4874.000	47.15	0.14	47.29	54	-6.71	AVG
7311.000	51.34	2.36	53.7	74	-20.3	peak
7311.000	42.38	2.36	44.74	54	-9.26	AVG
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actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.			

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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	55.96	0.22	56.18	74	-17.82	peak
4924.000	46.37	0.22	46.59	54	-7.41	AVG
7386.000	51.28	2.64	53.92	74	-20.08	peak
7386.000	40.36	2.64	43	54	-11	AVG
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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	54.38	0.22	54.6	74	-19.4	peak
4924.000	45.16	0.22	45.38	54	-8.62	AVG
7386.000	49.25	2.64	51.89	74	-22.11	peak
7386.000	40.11	2.64	42.75	54	-11.25	AVG
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actor = Ante	enna Factor + Ca	ble Loss – P	re-amplifier.			-

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are 20dB below the limits. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit. The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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12.3. TEST RESULT

EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

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RESULT: PASS

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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

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RESULT: PASS

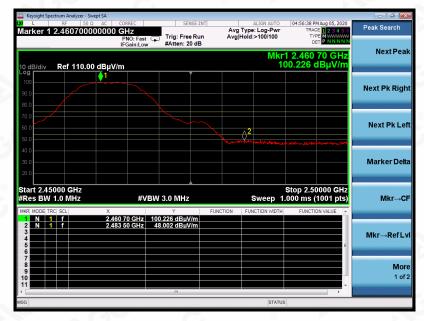
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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	DRONE	Model Name	FX-9G
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

ΡK



AV

Keysight Spectrum Analyzer - Swept SA				J .
arker 1 2.4110300000		ALIGN AUTO 04 Avg Type: RMS Avg Hold:>100/100	57:35 PM Aug 05, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWWW	arch
0 dB/div Ref 110.00 dB	IFGain:Low #Atten: 20 dB		11 030 GHz 285 dBµV/m	kt Pea
9 100 90.0 80.0			Next P	k Rig
70.0 60.0			Next	Pk L
40.0 30.0 20.0			Marke	er De
tart 2.37000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz*	Sweep 1.000		kr→(
1 N 1 f 2.	X Y FL 411 030 GHz 92.280 dBµV/m 390 000 GHz 44.570 dBµV/m	INCTION FUNCTION WIDTH	FUNCTION VALUE	Refl
5 6 7 8				Мс
9				10

RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pasting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical	

ΡK



AV

L RF 50 Ω arker 1 2.4112500		SENSE:INT	ALIGN AUTO Avg Type: RMS Avg Hold:>100/100	04:57:54 PM Aug 05, 2020 TRACE 1 2 3 4 5 6 TYPE A ********	Peak Search
0 dB/div Ref 110.00	IFGain:Low			DET A NNNNN 2.411 250 GHz 90.238 dBµV/m	Next Pea
• g 100 • 0.0					Next Pk Rig
0.0 0.0 0.0		2			Next Pk Lo
0.0					Marker De
tart 2.37000 GHz Res BW 1.0 MHz	#V	BW 3.0 MHz*	Sweep '	Stop 2.42500 GHz 1.000 ms (1001 pts)	Mkr⊸0
1 N 1 f 2 N 1 f 3	2.411 250 GHz 2.390 000 GHz	90,236 dBµV/m 42.620 dBµV/m			Mkr→RefL
7 8 9 0					M o 1 o

RESULT: PASS

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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal	

ΡK



AV



RESULT: PASS

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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical	

ΡK



AV



RESULT: PASS

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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal	

ΡK



AV

Peak Search	1 Aug 05, 2020		ALIGN AUTO	A	NSE:INT	SE	ORREC			RF	L
	E 1 2 3 4 5 6 E A WWWW T A N N N N N	TY	old:>100/100			Trig: Fre #Atten: 2	PNO: Fast G FGain:Low	00000	107550	1 2.4	arke
Next Pe		2.410 7 92.371 (n)dBµV/	f 110.00	Re) dB/d
			1_								ng 100
Next Pk Rig	~										0.0
											0.0
Next Pk L											0.0
					مر مانوسی مر م	مليفة معالية معرفية معرفة مع					0.0
										,,	0.0
Marker De											0.0
											0.0
Mkr→	2500 GHz 1001 pts)		Sweep 1		*	3.0 MHz	#VBW			37000 N 1.0	
	N VALUE	FUNCTI	FUNCTION WIDTH	FUNCTION	//ma	۲ 342 dBu	'55 GHz 9	X 2.440		TRC SCI	
						.949 dBµ				1 f	
Mkr→RefL											4
											6
Mo											8
1 0	-										0
	•										

RESULT: PASS

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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical	

ΡK



AV

Peak Search		05:00:13 PM Aug	IGN AUTO		r	NSE:INT	SE		CORREC		50 Ω	RF	L
I tak Starti	2 3 4 5 6 NNNNN	TRACE 1 TYPE A DET A		vg Type vg Hold:			Trig: Fre #Atten: 2	ast 🖵		0000	108500	1 2.41	rker
Next Pe		.411 085 0.666 dBj				U UD	WAtten: 2	LOW		dBµV	110.00	Ref	dB/div
Next Pk Rig			1		/								
Next Pk L	harry	,			J	aarea area	مى بىرى بىرى بىرى بىرى						0
Marker De								and and a second					0
Mkr→		top 2.4250 00 ms (100	weep 1	ţ		*	3.0 MHz	#VBW				87000 V 1.0 M	art 2.:
	LUE	FUNCTION VA	TION WIDTH	FUN	FUNCT	//m	۲ 46 dBu	lz 90	1 085 G	× 2.411		TRC SCL	
Mkr→Refl						V/m	587 dBµ	iz 44) 000 G	2.390		1 f	N
M α 1 α													

RESULT: PASS

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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal	

ΡK



AV



RESULT: PASS

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EUT	DRONE	Model Name	FX-9G	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical	

ΡK



AV



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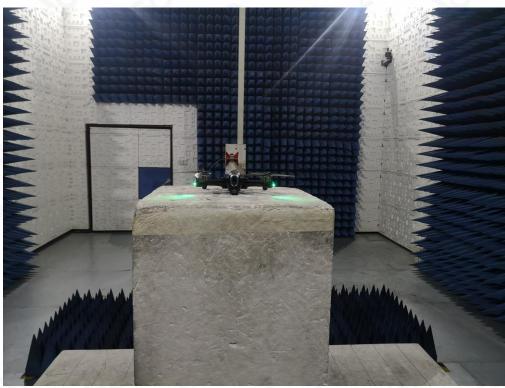


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT

TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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