Shenzhen Huaxia Testing Technology Co., Ltd

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Report Template Version: V03
Report Template Revision Date: Mar.1st, 2017

FCC Test Report

Report No. :	CQASZ20180800081E-02
Applicant:	SHENZHEN HUBSAN TECHNOLOGY CO., LTD.
Address of Applicant:	13th Floor, Bldg 1C, Shenzhen Software Industry Base, Xuefu Road, Nanshan District, Shenzhen, China 518054
Manufacturer:	SHENZHEN HUBSAN TECHNOLOGY CO., LTD.
Address of Manufacturer:	13th Floor, Bldg 1C, Shenzhen Software Industry Base, Xuefu Road, Nanshan District, Shenzhen, China 518054
Factory:	Dongguan Tengsheng Industrial Co., Ltd.
Address of Factory:	A22# Luyi Street, Tianxin Village, Tangxia Town, Dongguan, China.
Equipment Under Test (EUT):	
Product:	Video Streaming
Model No.:	F22
Brand Name:	HUBSAN
FCC ID:	2AN75-F22RX
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2018-08-23 to 2018-08-31
Date of Issue:	2018-09-05
Test Result :	**PASS***

Tested By: Tiny You
(Tiny You)

Reviewed By: Aaron Ma
(Aaron Ma)

Approved By:
(Jack Ai)

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

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180800081E-02	Rev.01	Initial report	2018-09-05

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

N/A: Not applicable, This EUT is battery power

3 Contents

4 General Information

4.1 Client Information

Applicant:	SHENZHEN HUBSAN TECHNOLOGY CO., LTD.
Address of Applicant:	13th Floor, Bldg 1C, Shenzhen Software Industry Base, Xuefu Road, Nanshan District, Shenzhen, China 518054
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Factory:	Dongguan Tengsheng Industrial Co., Ltd.
Address of Factory:	A22# Luyi Street, Tianxin Village, Tangxia Town, Dongguan, China.

4.2 General Description of EUT

Name:	Video Streaming
Model No.:	F22
Trade Mark :	HUBSAN
Hardware Version:	V1.0
Software Version:	V1.0
Frequency Range:	5735MHz ~ 5845MHz
Modulation Type:	GFSK
Number of Channels:	23(declared by the client)
Sample Type:	Mobile product
Test Software of EUT:	RF test (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	1.0dBi
Power Supply:	LiPo battery, DC7.6V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5735MHz	7	5765MHz	13	5795MHz	19	5825MHz
2	5740MHz	8	5770MHz	14	5800MHz	20	5830MHz
3	5745MHz	9	5775MHz	15	5805MHz	21	5835MHz
4	5750MHz	10	5780MHz	16	5810MHz	22	5840MHz
5	5755MHz	11	5785MHz	17	5815MHz	23	5845MHz
6	5760MHz	12	5790MHz	18	5820MHz	/	/

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	5735MHz
The Middle channel(CH13)	5795MHz
The Highest channel(CH23)	5845MHz

4.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450c	Provide by lab	FCC ID

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±5.12dB	(1)
Radiated Emission	Above 1GHz	±4.60dB	(1)
Conducted Disturbance	0.15~30MHz	±3.34dB	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.7 Test Facility

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

- **CNAS (No. CNAS L5785)**

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **ISED Registration No.: 22984-1**

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

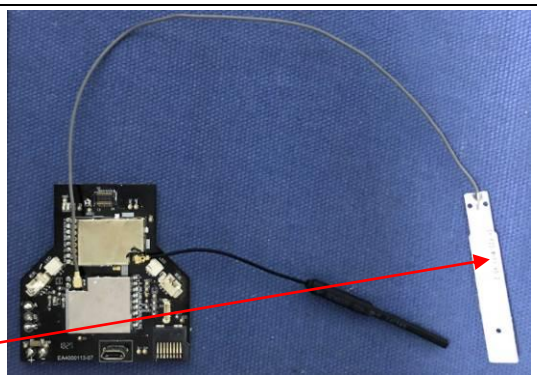
None.

4.11 Equipment List

Item	Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Due Date
1	EMI Test Receiver	R&S	ESR7	CQA-005	2019/9/25
2	Spectrum analyzer	R&S	FSU26	CQA-038	2019/9/25
3	Spectrum analyzer	R&S	FSU43	CQA-102	2019/9/25
4	Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2019/9/25
5	Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2019/9/25
5	Preamplifier	Compliance Directions Systems Inc.	PAP-2640-50	CQA-103	2019/9/25
6	Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2019/9/25
7	Bilog Antenna	R&S	HL562	CQA-011	2019/9/25
8	Horn Antenna	R&S	HF906	CQA-012	2019/9/25
9	Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/25
10	Horn Antenna	A.H.Systems, Inc.	SAS-573	CQA-104	2019/9/25
11	Coax cable (9KHz~40GHz)	CQA	RE-low-01	CQA-077	2019/9/25
12	Coax cable (9KHz~40GHz)	CQA	RE-high-02	CQA-078	2019/9/25
13	RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2019/9/25

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
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.	
EUT Antenna:	
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi.	

5.2 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>47 CFR Part 15C Section 15.249 and 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>0.009MHz-0.090MHz</td><td>Peak</td><td>10kHz</td><td>30KHz</td><td>Peak</td></tr>
<tr><td>0.009MHz-0.090MHz</td><td>Average</td><td>10kHz</td><td>30KHz</td><td>Average</td></tr>
<tr><td>0.090MHz-0.110MHz</td><td>Quasi-peak</td><td>10kHz</td><td>30KHz</td><td>Quasi-peak</td></tr>
<tr><td>0.110MHz-0.490MHz</td><td>Peak</td><td>10kHz</td><td>30KHz</td><td>Peak</td></tr>
<tr><td>0.110MHz-0.490MHz</td><td>Average</td><td>10kHz</td><td>30KHz</td><td>Average</td></tr>
<tr><td>0.490MHz -30MHz</td><td>Quasi-peak</td><td>10kHz</td><td>30kHz</td><td>Quasi-peak</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100 kHz</td><td>300KHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.
</td></tr>
<tr><td>Limit:
(Spurious Emissions and band edge)</td><td>
<table>
<tr><th>Frequency</th><th>Field strength (microvolt/meter)</th><th>Limit (dBuV/m)</th><th>Remark</th><th>Measurement distance (m)</th></tr>
<tr><td>0.009MHz-0.490MHz</td><td>2400/F(kHz)</td><td>-</td><td>-</td><td>300</td></tr>
<tr><td>0.490MHz-1.705MHz</td><td>24000/F(kHz)</td><td>-</td><td>-</td><td>30</td></tr>
<tr><td>1.705MHz-30MHz</td><td>30</td><td>-</td><td>-</td><td>30</td></tr>
<tr><td>30MHz-88MHz</td><td>100</td><td>40.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>88MHz-216MHz</td><td>150</td><td>43.5</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>216MHz-960MHz</td><td>200</td><td>46.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>960MHz-1GHz</td><td>500</td><td>54.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>Above 1GHz</td><td>500</td><td>54.0</td><td>Average</td><td>3</td></tr>
</table>
Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.
</td></tr>
<tr><td>Limit:
(Field strength of the fundamental signal)</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td rowspan="2">5725MHz-5875MHz</td><td>94.0</td><td>Average Value</td></tr>
<tr><td>114.0</td><td>Peak Value</td></tr>
</table>
</td></tr>
</table>

Test Setup:	

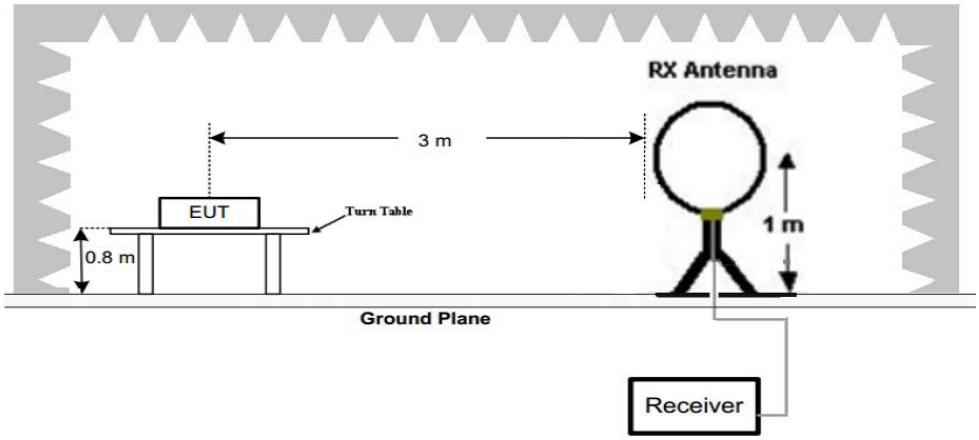


Figure 1. Below 30MHz

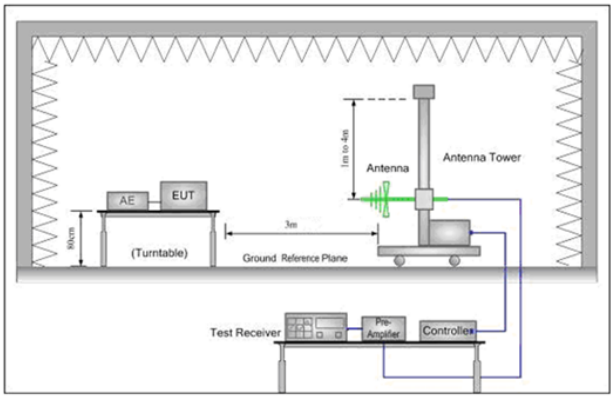


Figure 2. 30MHz to 1GHz

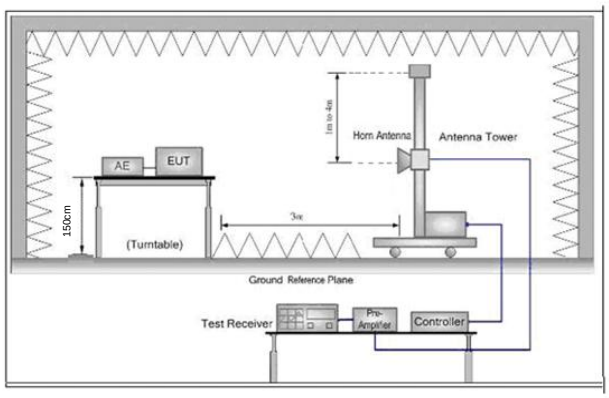


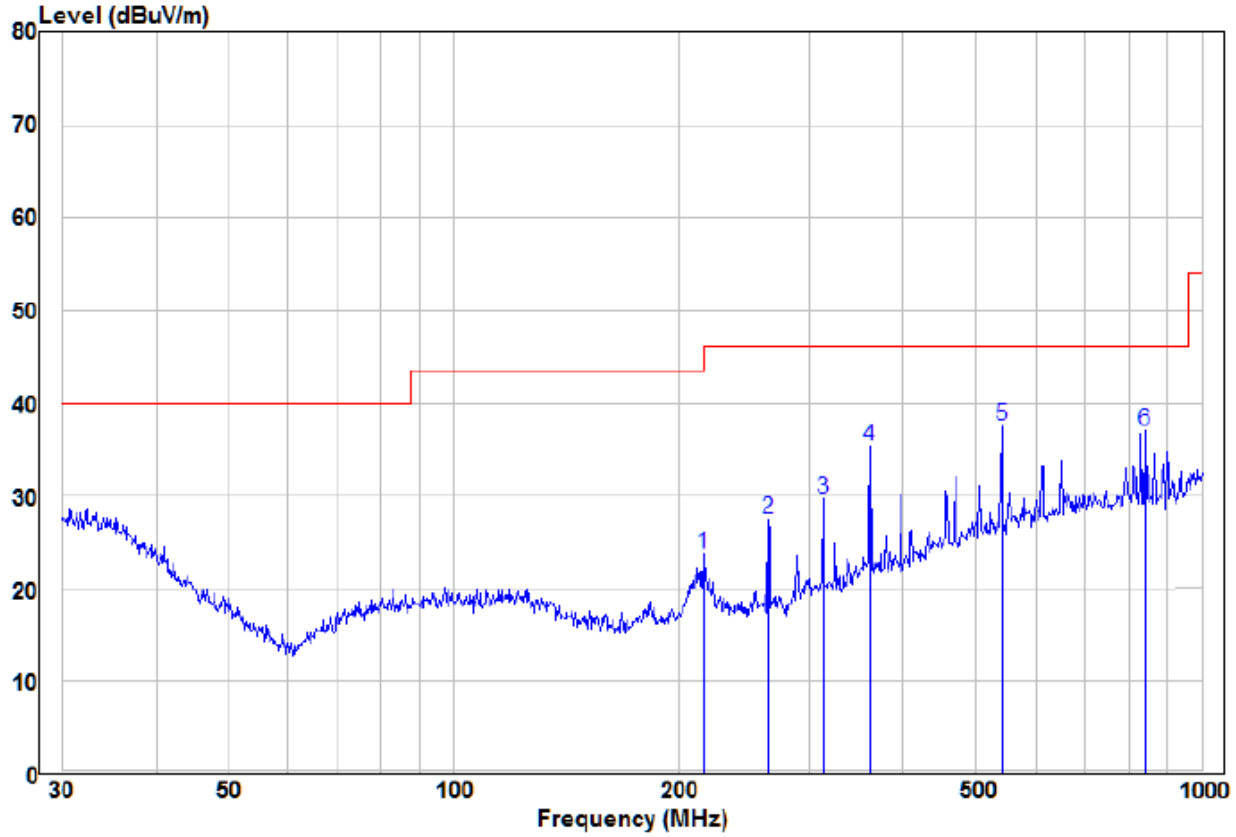
Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: 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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table

	was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel,the middle channel,the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Voltage:	DC7.6V
Test Results:	Pass

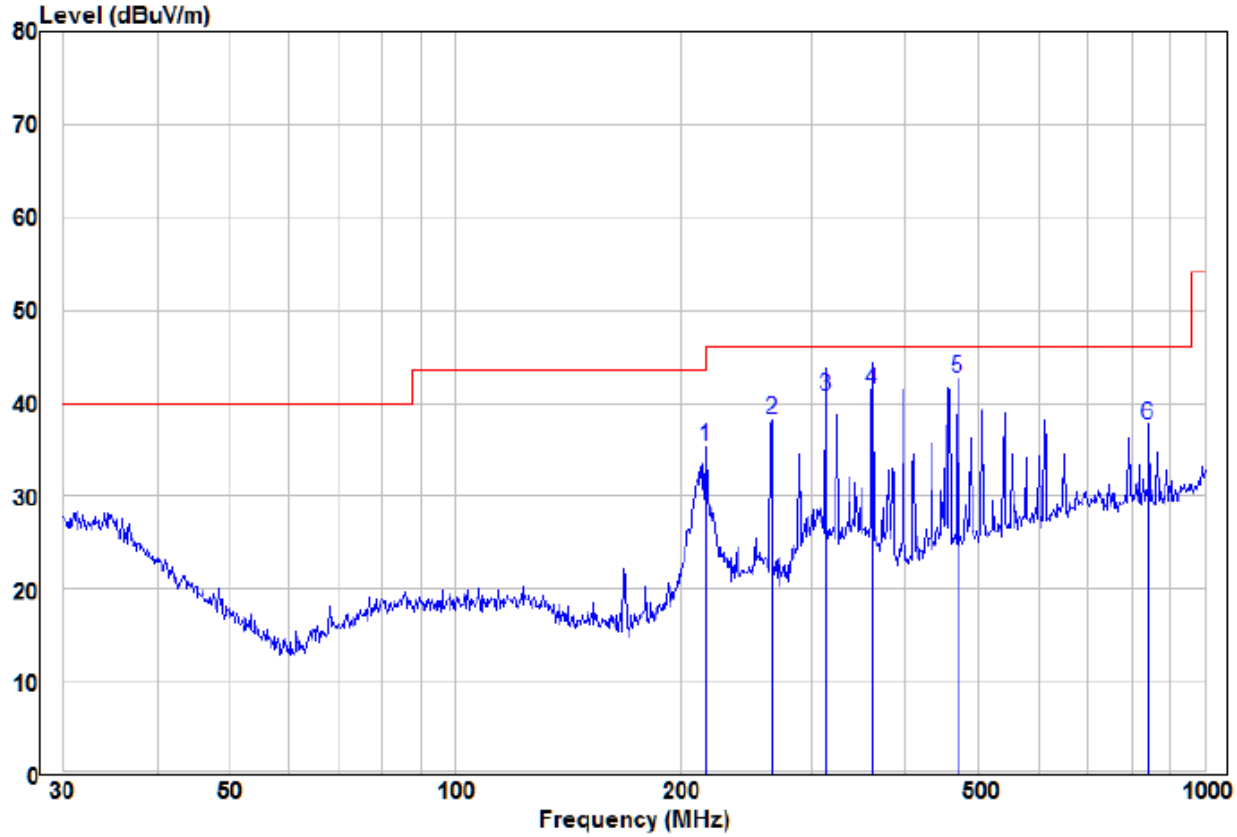
Measurement Data

30MHz~1GHz		
Test mode:	Transmitting (lowest channel)	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	216.02	13.80	9.98	23.78	46.00	-22.22	Peak	VERTICAL
2	263.82	18.14	9.41	27.55	46.00	-18.45	Peak	VERTICAL
3	312.18	18.04	11.72	29.76	46.00	-16.24	Peak	VERTICAL
4	360.45	21.55	13.69	35.24	46.00	-10.76	Peak	VERTICAL
5 pp	541.37	20.07	17.41	37.48	46.00	-8.52	Peak	VERTICAL
6	842.13	16.45	20.50	36.95	46.00	-9.05	Peak	VERTICAL

Test mode:	Transmitting (lowest channel)	Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	216.02	25.29	9.98	35.27	46.00	-10.73	Peak	HORIZONTAL
2	264.75	28.76	9.45	38.21	46.00	-7.79	Peak	HORIZONTAL
3	312.18	29.08	11.72	40.80	46.00	-5.20	QP	HORIZONTAL
4 qp	360.45	27.75	13.69	41.44	46.00	-4.56	QP	HORIZONTAL
5 pp	468.88	26.36	16.25	42.61	46.00	-3.39	Peak	HORIZONTAL
6	842.13	17.17	20.50	37.67	46.00	-8.33	Peak	HORIZONTAL

Above 1GHz			
Test mode:	Transmitting	Test channel:	Lowest

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5725	49.30	-2.77	43.26	74	-30.74	peak	H
5725	36.27	-2.77	30.35	54	-23.65	AVG	H
5735	102.35	-2.74	99.61	114	-14.39	peak	H
5735	92.63	-2.73	89.9	94	-4.1	AVG	H
11470	48.57	6.84	55.41	74	-17.01	peak	H
11470	36.29	6.84	43.13	54	-12.9	AVG	H
17205	41.47	13.02	54.49	74	-19.51	peak	H
17205	30.57	13.02	43.59	54	-10.41	AVG	H
5725	50.51	-2.77	39.66	74	-34.34	peak	V
5725	38.36	-2.77	28.06	54	-25.94	AVG	V
5735	96.46	-2.74	93.72	114	-20.28	peak	V
5735	89.65	-2.72	86.93	94	-7.07	AVG	V
11470	48.40	6.84	55.24	74	-18.76	peak	V
11470	37.59	6.84	44.43	54	-9.57	AVG	V
17205	43.02	13.02	56.04	74	-17.96	peak	V
17205	29.12	13.02	42.14	54	-11.86	AVG	V

Test mode:	Transmitting	Test channel:	Middle

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5795	101.23	-2.39	98.84	114	-15.16	peak	H
5795	87.36	-2.39	84.97	94	-9.03	AVG	H
11580	49.97	6.97	56.94	74	-17.06	peak	H
11580	36.70	6.97	43.67	54	-10.33	AVG	H
17370	42.53	15.71	58.24	74	-15.76	peak	H
17370	30.00	15.71	45.71	54	-8.29	AVG	H
5795	93.67	-2.41	91.26	114	-22.74	peak	V
5795	82.64	-2.41	80.23	94	-13.77	AVG	V
11580	48.45	6.97	55.42	74	-18.58	peak	V
11580	35.87	6.97	42.84	54	-11.16	AVG	V
17370	41.69	15.71	57.40	74	-16.60	peak	V
17370	29.30	15.71	45.01	54	-8.99	AVG	V

Test mode:	Transmitting	Test channel:	Highest

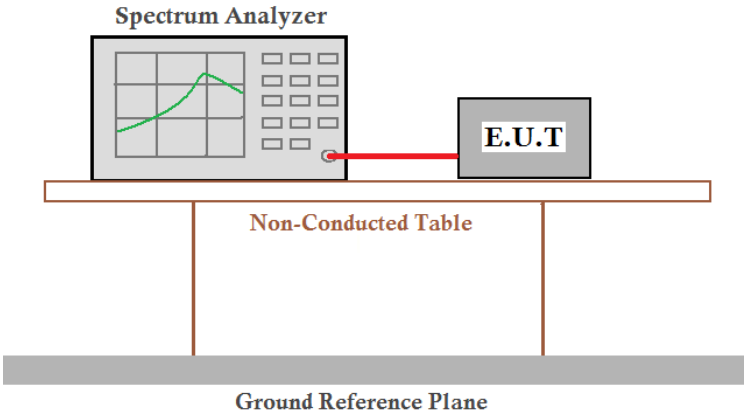
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5845	**103.61**	**-2.32**	**101.29**	**114**	**-12.71**	**peak**	**H**
5845	93.16	-2.31	90.85	94	-3.15	AVG	H
5875	48.31	-2.21	43.26	74	-30.74	peak	H
5875	38.04	-2.21	30.35	54	-23.65	AVG	H
11680	50.65	6.63	57.28	74	-16.72	peak	H
11680	37.36	6.63	43.99	54	-10.01	AVG	H
17520	40.97	16.05	57.02	74	-16.98	peak	H
17520	28.20	16.05	44.25	54	-9.75	AVG	H
5845	95.74	-2.32	93.42	114	-20.58	peak	V
5845	87.23	-2.31	84.92	94	-9.08	AVG	V
5875	48.40	-2.21	39.66	74	-34.34	peak	V
5875	36.41	-2.21	28.06	54	-25.94	AVG	V
11680	50.63	6.63	57.26	74	-16.74	peak	V
11680	36.59	6.63	43.22	54	-10.78	AVG	V
17520	41.26	16.05	57.31	74	-16.69	peak	V
17520	28.53	16.05	44.58	54	-9.42	AVG	V

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 40GHz,The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

5.3 20dB Bandwidth

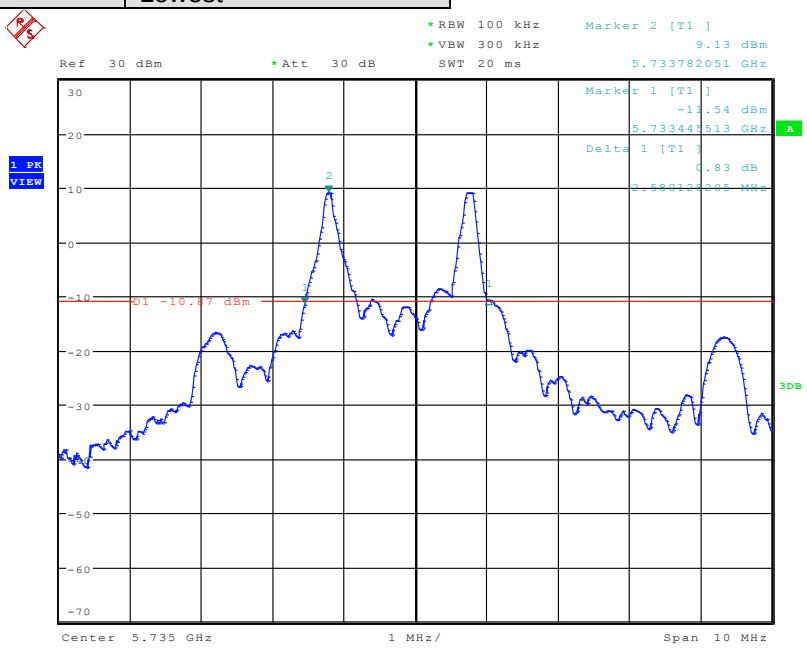
Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	
Test Mode:	Transmitting with GFSK modulation.
Limit:	N/A
Test Results:	Pass

Measurement Data

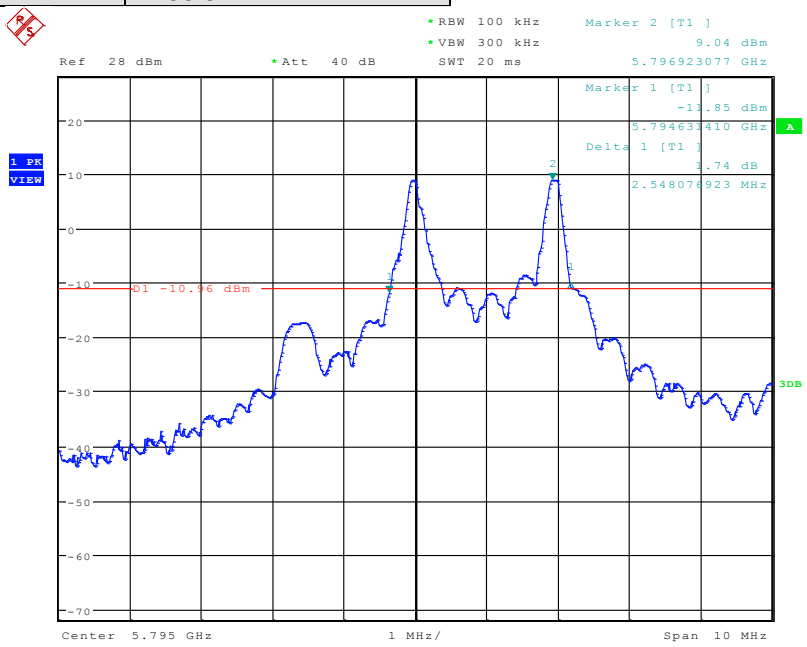
Test channel	20dB bandwidth (MHz)	Results
Lowest	2.58	Pass
Middle	2.55	Pass
Highest	2.61	Pass

Test plot as follows:

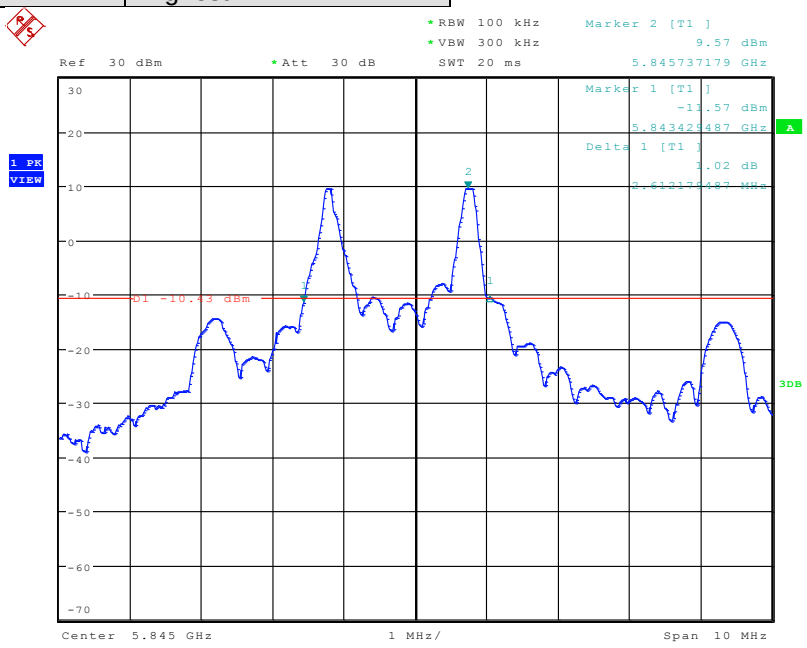
Test channel:	Lowest



Test channel:	Middle



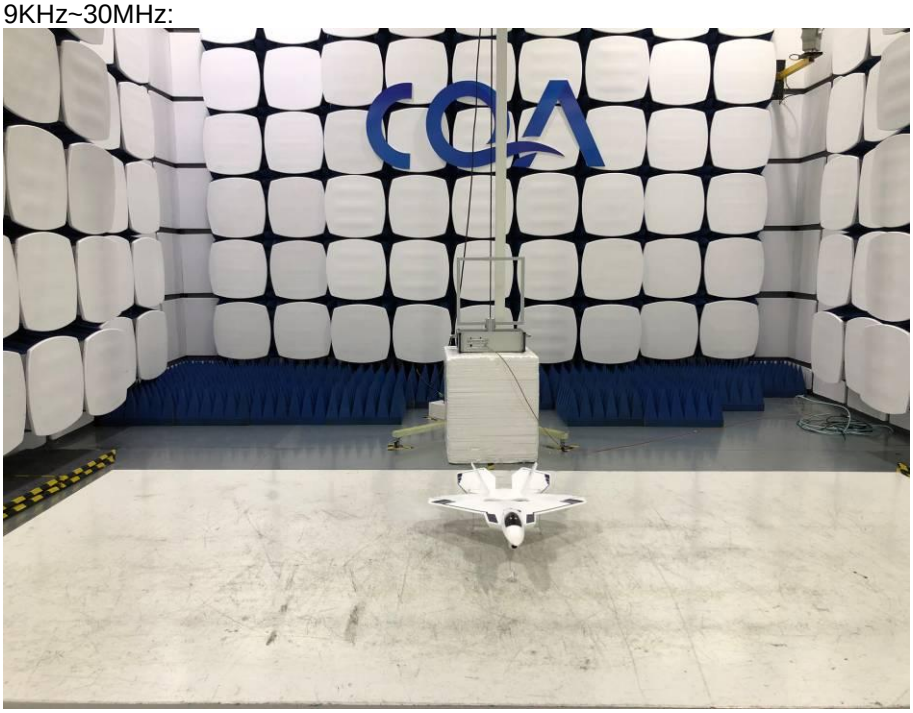
Test channel:	Highest



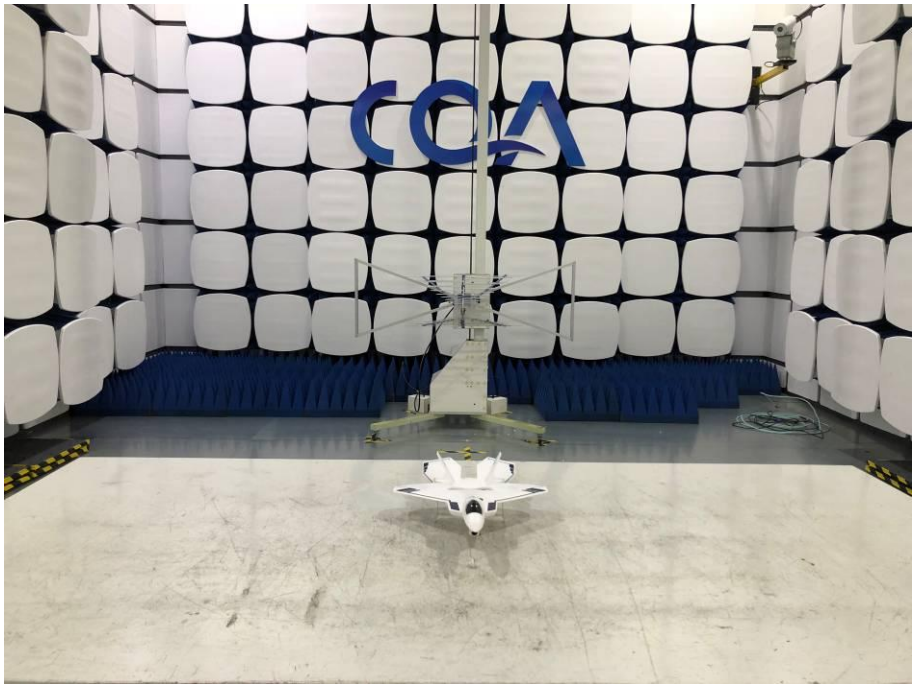
6 Photographs

6.1 Radiated Emission Test Setup

9KHz~30MHz:

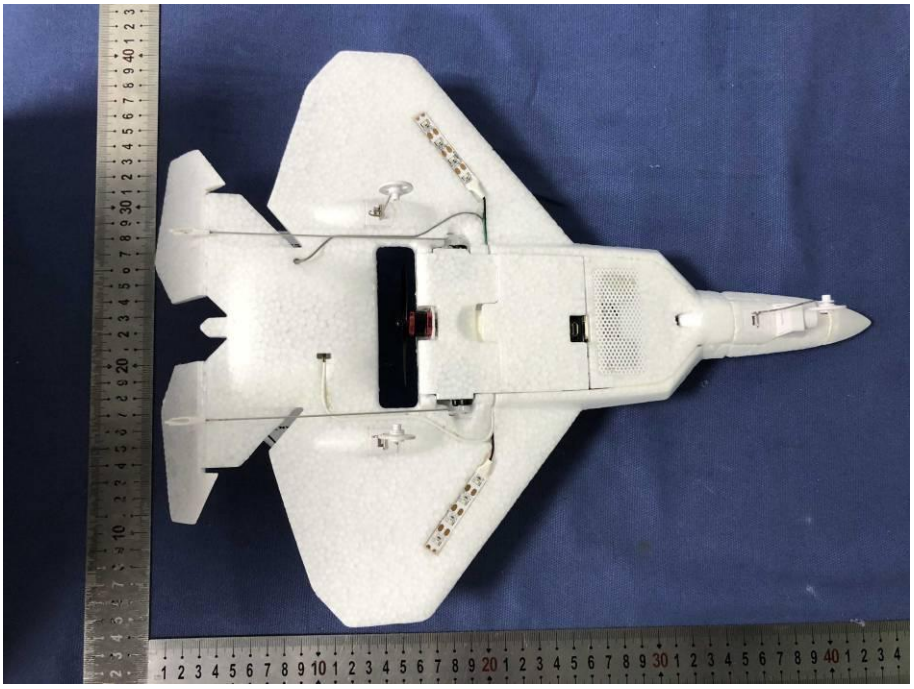


30MHz~1GHz:



Above 1GHz:

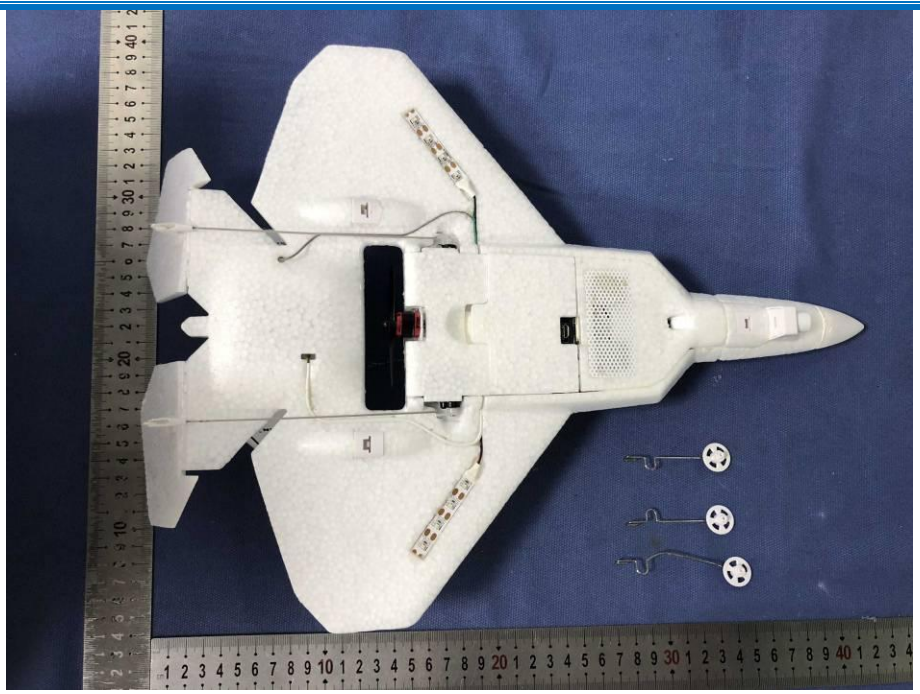
6.2 EUT Constructional Details




F22

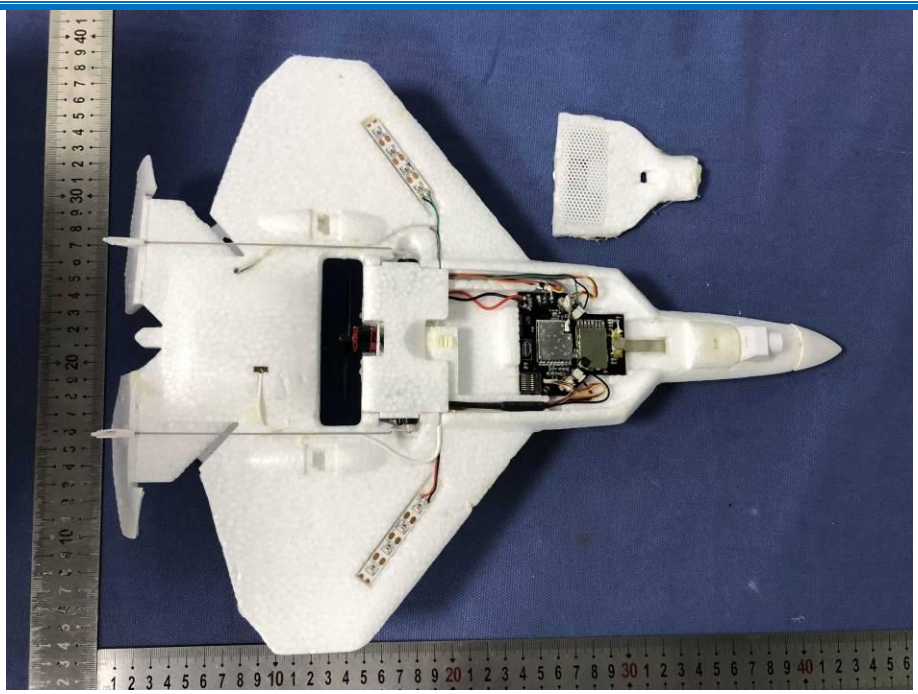

F22
F22

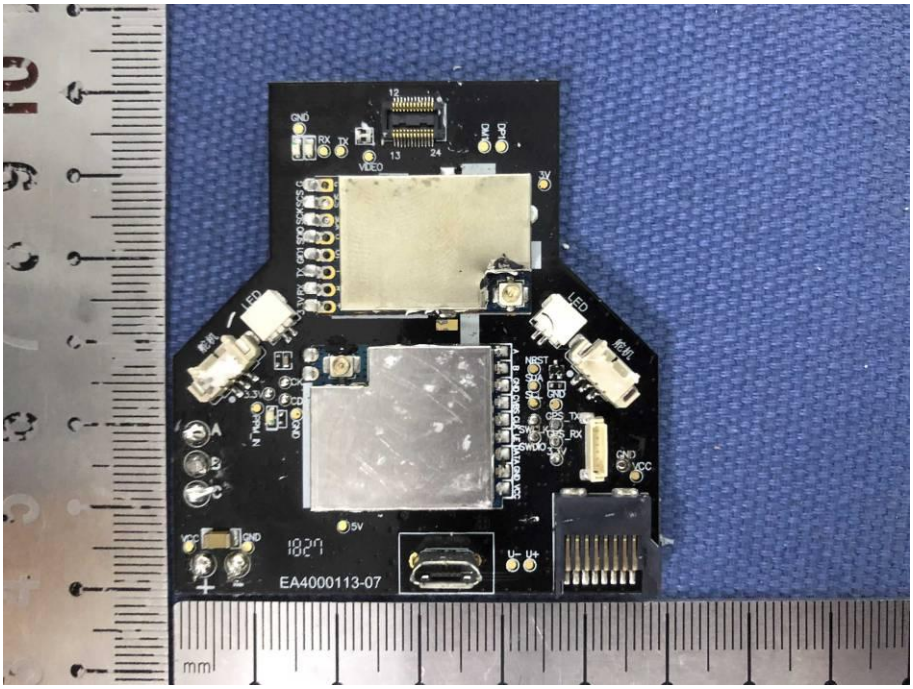

F22

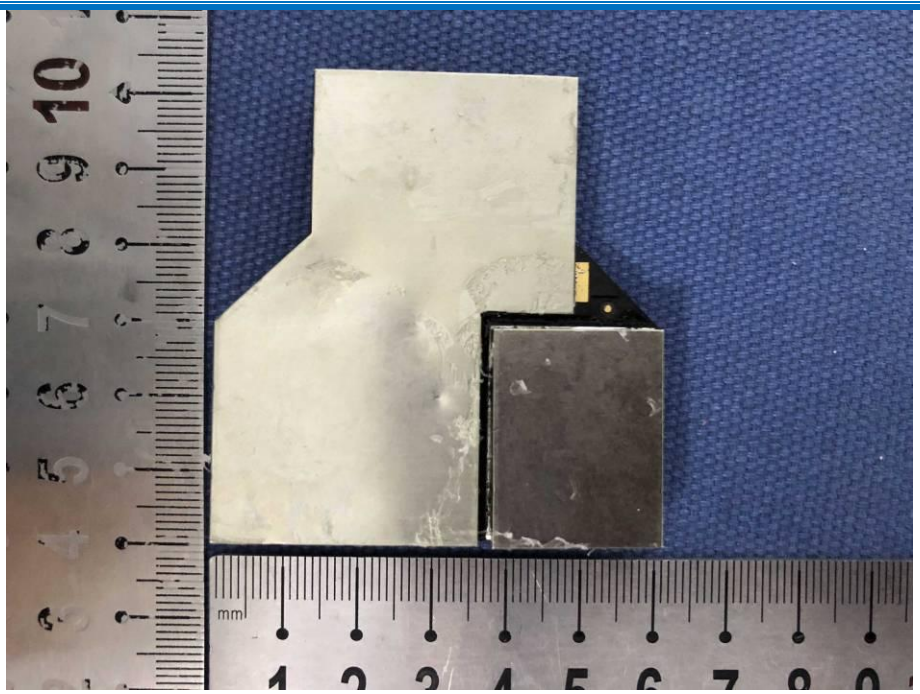


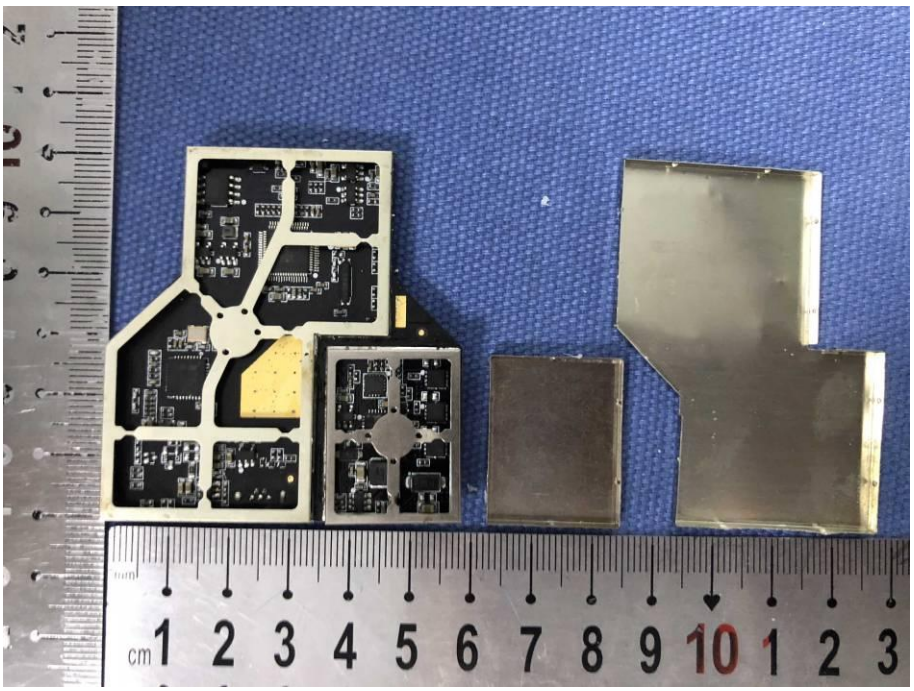

WARNING
MADE IN CHINA
cm 1 2 3 4 5 6 7 8 9

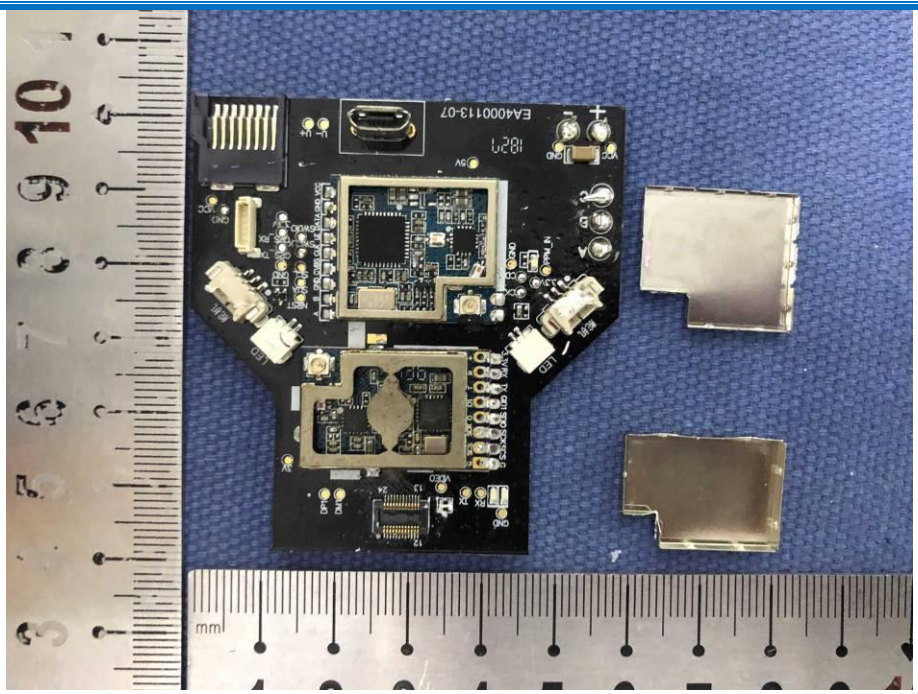

LI-PO
480mAh / 7.6V / 20C / 3.648Wh
HIGH PERFORMANCE BATTERY
cm 1 2 3 4 5 6 7

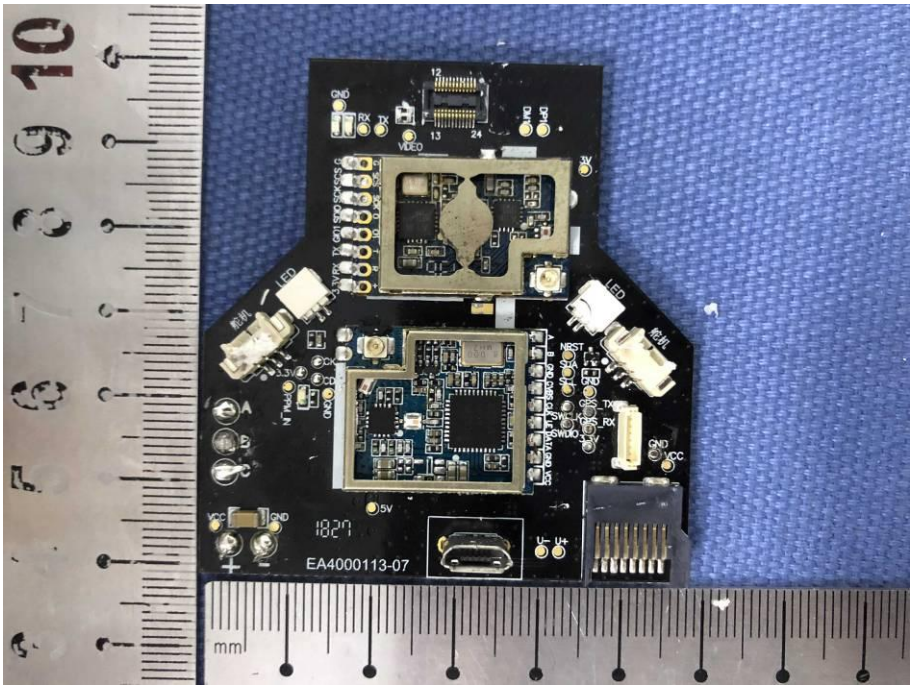


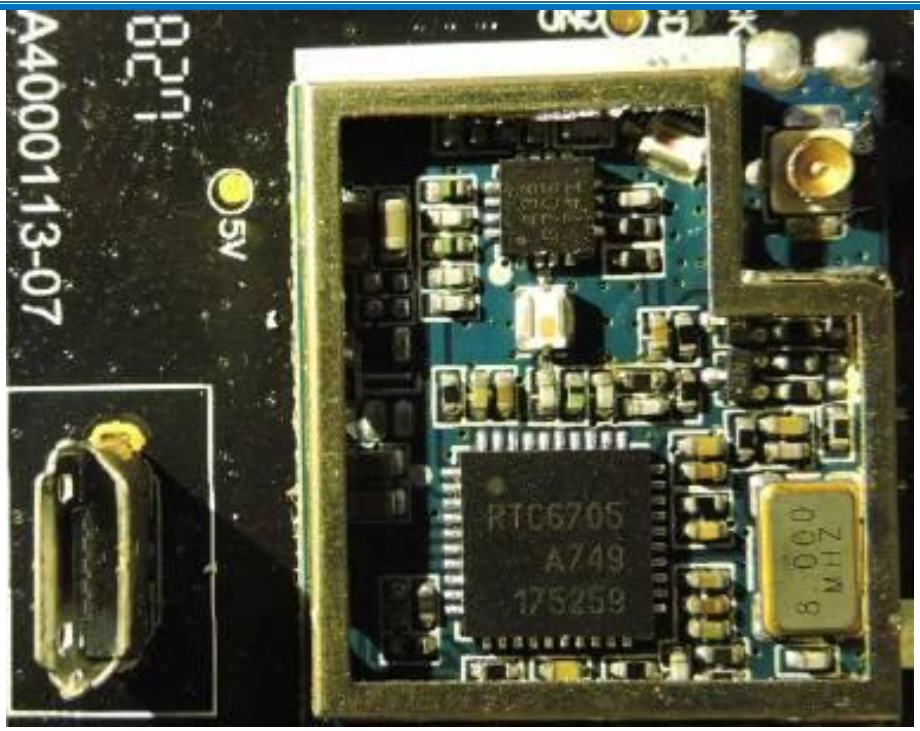

EA4000113-07

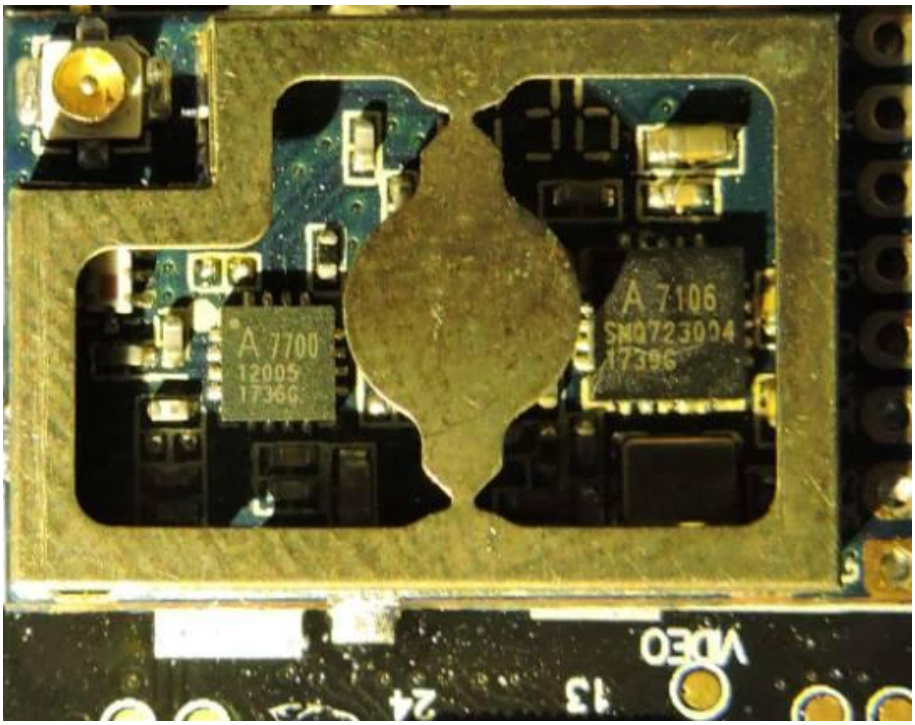




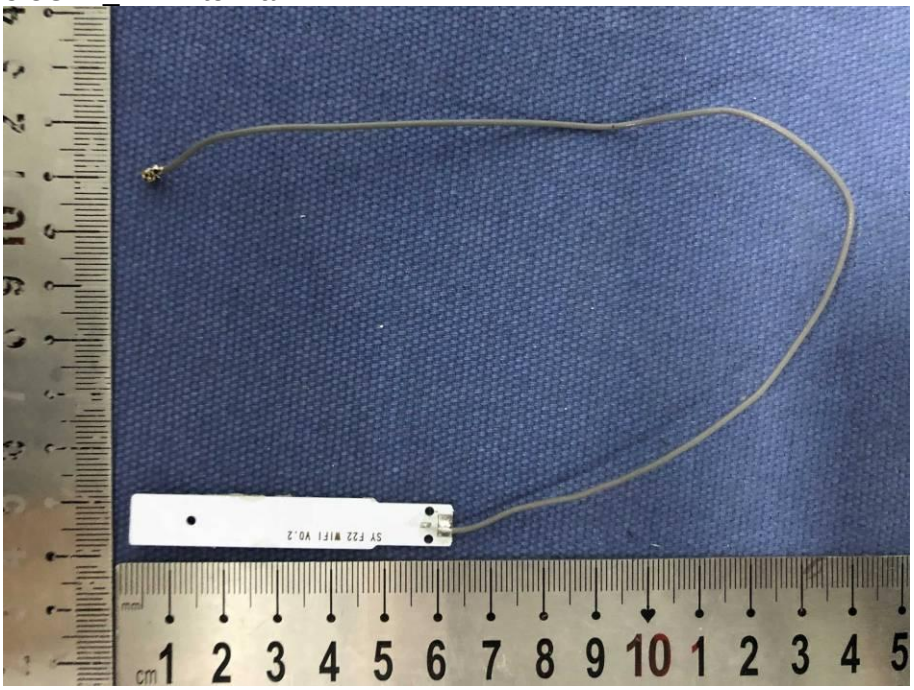

EA4000113-07
mm


EA4000113-07
mm

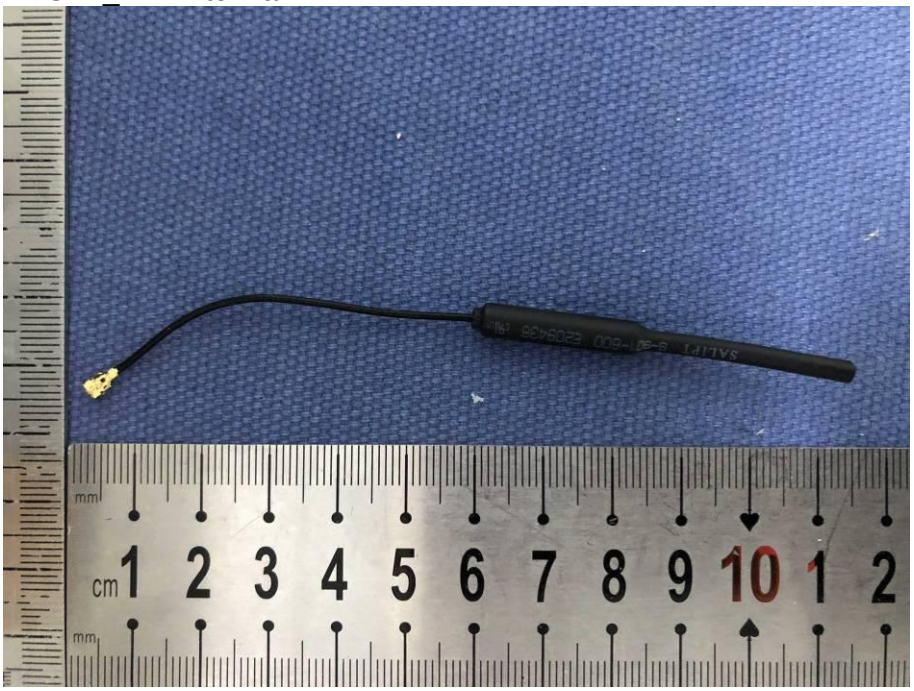

A4000113-07
5V
RTC6705
A749
175259
8.000
MHZ


A 7700
12005
1736G
A 7106
SNQ723004
17396
VDEO
13
24

5.8GHz_TX Antenna:



2.4GHz_RX Antenna:



END OF THE REPORT