



FCC TEST REPORT

FCC ID: SY4-A02030

On Behalf of

Shanghai Huace Navigation Technology LTD.
Mobile Mapping System
Model No.: AlphaAir 450

Prepared for : Shanghai Huace Navigation Technology LTD.
Address : 599 Gaojing Road, Building D, Shanghai 201702, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number : A2102141-C02-R01
Date of Receipt : March 9, 2021
Date of Test : March 10, 2021-March 18, 2021
Date of Report : March 18, 2021
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shanghai Huace Navigation Technology LTD.
Address : 599 Gaojing Road, Building D, Shanghai 201702, China
Manufacturer : Shanghai Huace Navigation Technology LTD.
Address : 599 Gaojing Road, Building D, Shanghai 201702, China
EUT Description : Mobile Mapping System
(A) Model No. : AlphaAir 450
(B) Trademark : 

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10-2013

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

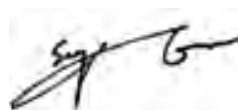
Tested by (name + signature).....:

Lucas Pang
Project Engineer



Approved by (name + signature).....:

Simple Guan
Project Manager



Date of issue..... : March 18, 2021

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 18, 2021	Initial released Issue	Lucas Pang

1. Summary Of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Test Requirement	Standards Paragraph	Result
Conducted Emission	FCC PART 15	15.207	P
6dB Bandwidth	FCC PART 15	15.247 (a)(2)	P
Output Power	FCC PART 15	15.247 (b)(3)	P
Radiated Spurious Emission	FCC PART 15	15.247 (c)	P
Conducted Spurious & Band Edge Emission	FCC PART 15	15.247 (d)	P
Power Spectral Density	FCC PART 15	15.247 (e)	P
Radiated Band Edge Emission	FCC PART 15	15.205	P
Antenna Requirement	FCC PART 15	15.203	P
Note:		1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.	

2. General Information

2.1. Description of Device (EUT)

EUT : Mobile Mapping System

Trade Name : The logo consists of the letters 'CHCNAV' in a bold, sans-serif font. The 'C', 'H', 'C', 'N' are in a dark grey color, while 'A', 'V' are in orange. There is a small orange circle with a white dot positioned above the 'A'.

Model No. : AlphaAir 450

DIFF : N/A

Power supply : DC 12-14V

Bluetooth

Radio Technology : Bluetooth V4.0 LE

Operation frequency : 2402MHz -2480MHz

Modulation : GFSK

Antenna Type : Internal Antenna, max gain 3dBi.

Software : V1.0

Hardware : V1.0

Intend use environment : Residential, commercial and light industrial environment

Note : /

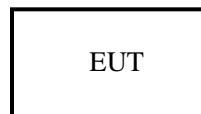
2.2. Accessories of Device (EUT)

Accessories1 : /
 Manufacturer : /
 Model : /
 Remark : /

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1	DC power	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH0	2402
	Middle: CH19	2440
	High: CH39	2480

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	980kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
 Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
 Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
 Registration Number: 293961

July 15, 2019 Certificated by IC
 Registration Number: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.13dB(Polarize: H)
	4.16dB(Polarize: V)
Uncertainty for radio frequency	5.4×10^{-8}
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2019.09.06	3Year
Spectrum analyzer	ROHDE&SCHW ARZ	FSV40-N	102137	2020.09.02	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2020.09.02	1Year
Receiver	ROHDE&SCHW ARZ	ESR	1316.3003K03-10208 2-Wa	2020.09.02	1Year
Receiver	R&S	ESCI	101165	2020.09.02	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2020.04.12	2Year
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Active Loop Antenna	SCHWARZBEC K	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2020.09.02	1Year
Cable	Resenberger	N/A	No.2	2020.09.02	1Year
Cable	Resenberger	N/A	No.3	2020.09.02	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2020.09.02	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2020.09.02	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2020.09.02	1Year
L.I.S.N.#2	ROHDE&SCHW ARZ	ENV216	101043	2020.09.02	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2020.09.02	1 Year
Horn Antenna	SCHWARZBEC K	BBHA9170	00946	2019.09.07	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2020.09.02	1 Year
Power Meter	Agilent	E9300A	MY41496625	2020.09.02	1 Year
Temp. &Humid. Chamber	Weihuang	WHTH-1000-40-80	100631	2020.09.02	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2020.09.02	1 Year

3. Spurious Emission

3.1. Test Limits

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

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other 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 comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(uV/m)

3.2. Test Procedure

The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation

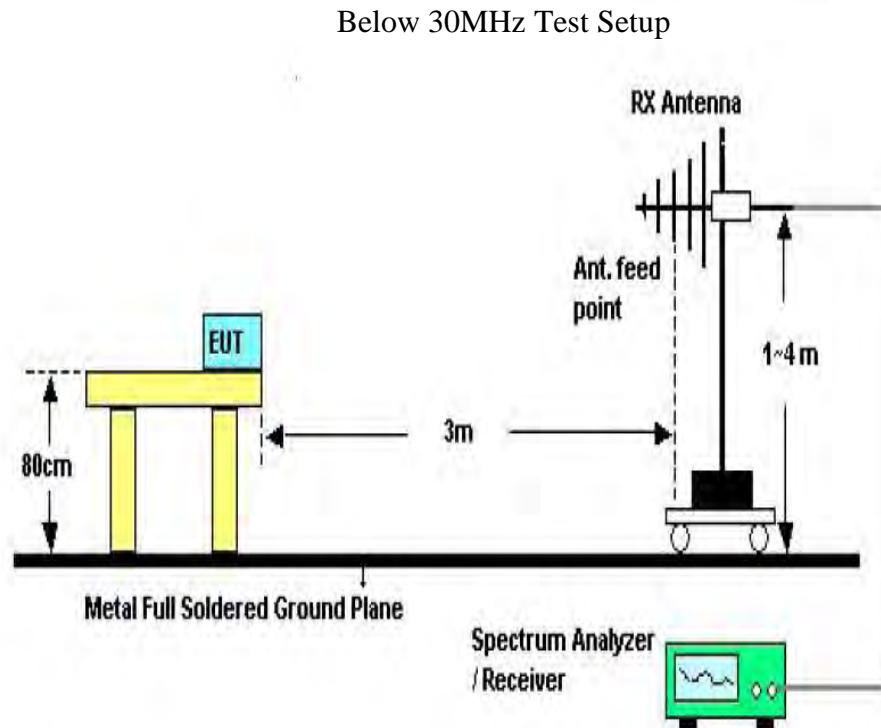
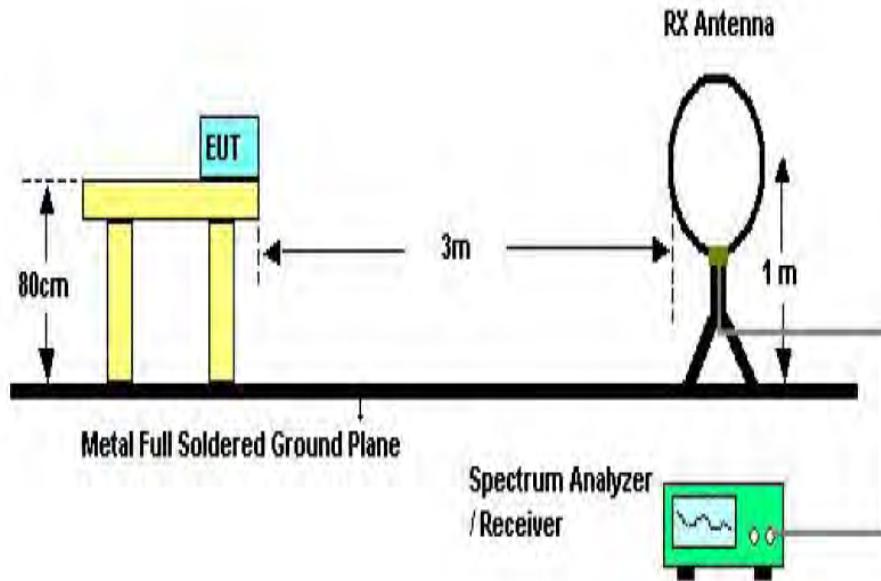
The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

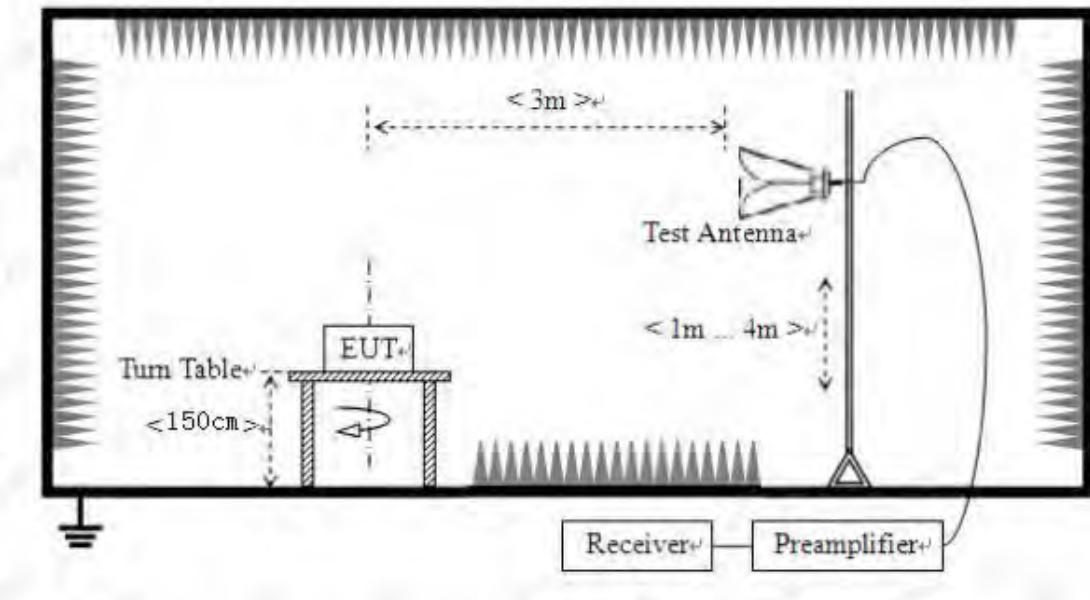
The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured

If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.

For the actual test configuration, please see the test setup photo.

3.3. Test Setup





Above 1GHz Test Setup

3.4. Test Results

Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the 10th harmonic from 9 kHz to the EUT.

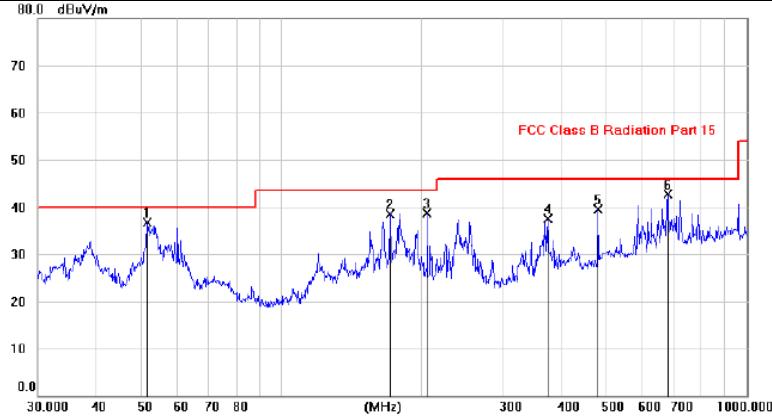
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

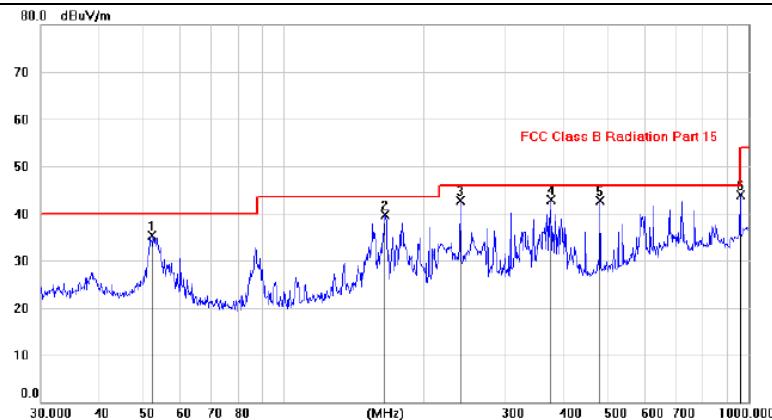
2.Only show the test data of the worst Channel in this report.

Temperature	24°C	Humidity	56%
Pol	Vertical	Test mode	BLE 2402MHz
Test Voltage	DC12V		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table
			Level	Factor	ment				
MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	51.6011	22.83	13.88	36.71	40.00	-3.29	peak		
2	171.4326	24.70	13.87	38.57	43.50	-4.93	peak		
3	205.6990	27.72	11.00	38.72	43.50	-4.78	peak		
4	373.8351	21.77	15.75	37.52	46.00	-8.48	peak		
5	480.0221	21.56	17.95	39.51	46.00	-6.49	peak		
6	* 675.9976	21.40	21.40	42.80	46.00	-3.20	peak		

Pol	Horizontal
------------	------------



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table
			Level	Factor	ment				
MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	52.0615	21.48	13.87	35.35	40.00	-4.65	peak		
2	165.4670	25.28	14.52	39.80	43.50	-3.70	peak		
3	240.0149	30.19	12.55	42.74	46.00	-3.26	peak		
4	* 377.1709	27.08	15.84	42.92	46.00	-3.08	peak		
5	480.0221	24.72	17.95	42.67	46.00	-3.33	peak		
6	960.1400	19.21	24.67	43.88	54.00	-10.12	peak		

Note: 1. *:Maximum data; x:Over limit; !:over margin.
 2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Notes: Above is below 1GHz test data. This report only show the worst case mode for TX 2402MHz

From 1G-25GHz

Test Mode: TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	45.89	V	33.98	10.22	34.25	55.84	74	18.16	PK
4804	35.54	V	33.98	10.22	34.25	45.49	54	8.51	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	46.16	H	33.98	10.22	34.25	56.11	74	17.89	PK
4804	35.19	H	33.98	10.22	34.25	45.14	54	8.86	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	46.56	V	33.98	10.22	34.25	56.51	74	17.49	PK
4880	35.50	V	33.98	10.22	34.25	45.45	54	8.55	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	46.17	H	33.98	10.22	34.25	56.12	74	17.88	PK
4880	34.57	H	33.98	10.22	34.25	44.52	54	9.48	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4960	46.45	V	33.98	10.22	34.25	56.40	74	17.60	PK
4960	35.75	V	33.98	10.22	34.25	45.70	54	8.30	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	46.82	H	33.98	10.22	34.25	56.77	74	17.23	PK
4960	34.70	H	33.98	10.22	34.25	44.65	54	9.35	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

4. Power Line Conducted Emission

4.1. Test Limits

Frequency	Limits dB(μ V)	
MHz	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

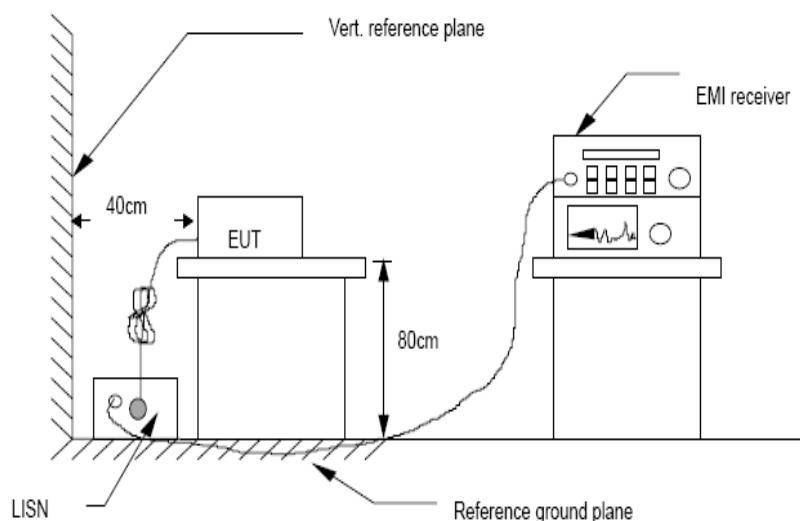
Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases in line with the logarithm of the frequency in range of 0.15 to 0.50 MHz.

4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2013 on Conducted Emission Measurement.

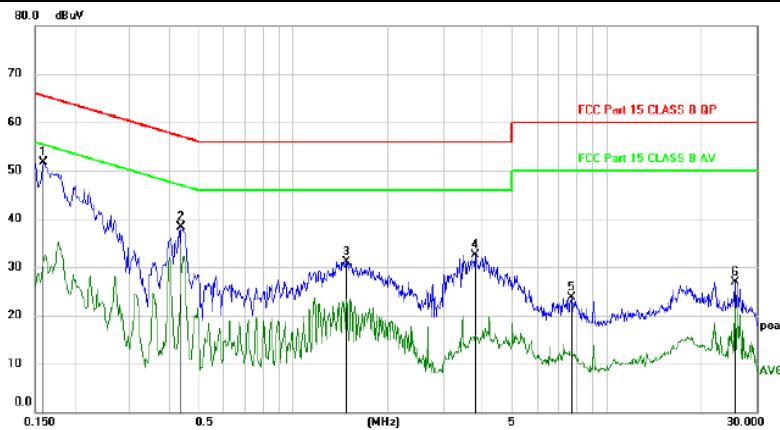
The bandwidth of test receiver is set at 9 kHz.

4.3. Test Setup



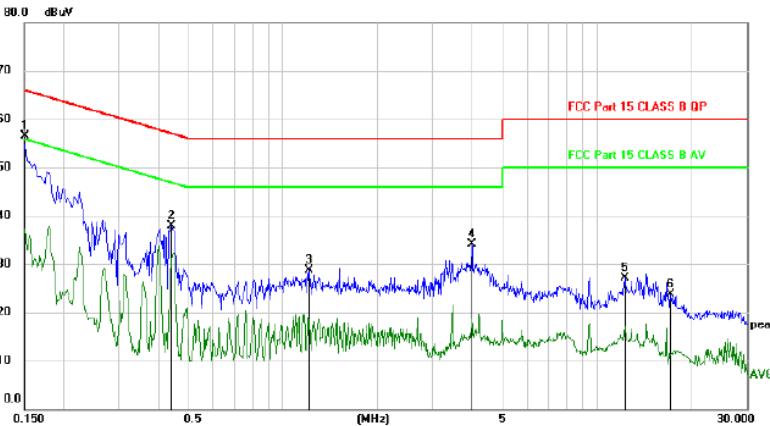
4.4. Test Results

Temperature	24°C	Humidity	56%
Pol	Line	Test mode	BLE 2402M
Test Voltage	DC12V from DC power AC120V 60Hz		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	Detector	Comment
1 *	0.1590	41.82	9.94	51.76	65.52	-13.76	peak
2	0.4380	28.37	9.95	38.32	57.10	-18.78	peak
3	1.4757	21.24	9.90	31.14	56.00	-24.86	peak
4	3.8189	22.64	9.96	32.60	56.00	-23.40	peak
5	7.7130	13.65	10.14	23.79	60.00	-36.21	peak
6	25.6980	16.44	10.47	26.91	60.00	-33.09	peak

Pol	Neutral
------------	---------



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	Detector	Comment
1 *	0.1500	46.49	9.94	56.43	66.00	-9.57	peak
2	0.4410	27.97	9.95	37.92	57.04	-19.12	peak
3	1.2118	18.74	9.89	28.63	56.00	-27.37	peak
4	4.0019	24.04	9.97	34.01	56.00	-21.99	peak
5	12.3059	16.89	10.27	27.16	60.00	-32.84	peak
6	17.1689	13.29	10.39	23.68	60.00	-36.32	peak

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

5. Conducted Maximum Output Power

5.1. Test limits

Please refer section RSS-247 & 15.247.

5.2. Test Procedure

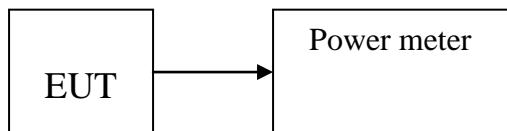
Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

5.2.1 Place the EUT on the table and set it in transmitting mode.

5.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.3. Test Setup



5.4. Test Results

GFSK(1M)

Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Result
CH0	2402	-0.455	0.901	30	Pass
CH19	2440	0.117	1.027	30	Pass
CH39	2480	1.48	1.406	30	Pass

6. Peak Power Spectral Density

6.1. Test limits

6.1.1 Please refer section RSS-247 & 15.247.

6.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

6.2. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

6.2.1 Place the EUT on the table and set it in transmitting mode.

6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

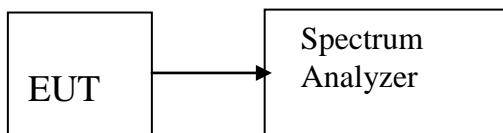
6.2.3 Set the spectrum analyzer as $\text{RBW} = 3\text{kHz}$ (Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$),

$\text{VBW} = 10\text{kHz}$ (Set the $\text{VBW} \geq 3 \times \text{RBW}$), $\text{span} = 1.5 \times \text{DTS bandwidth}$., detail see the test plot.

6.2.4 Record the max reading.

6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

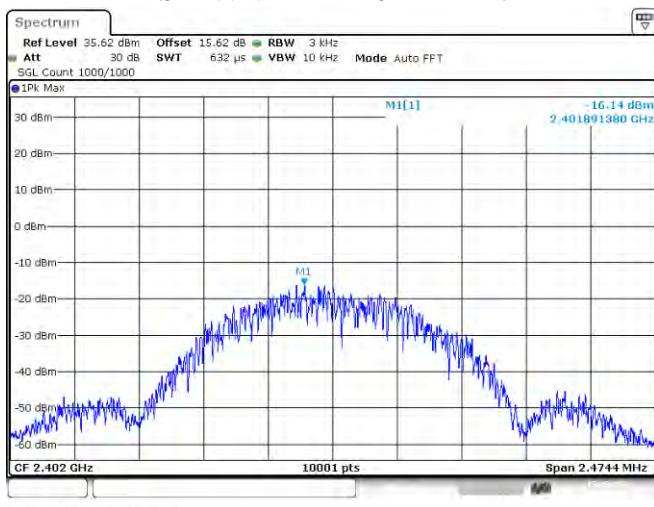
6.3. Test Setup



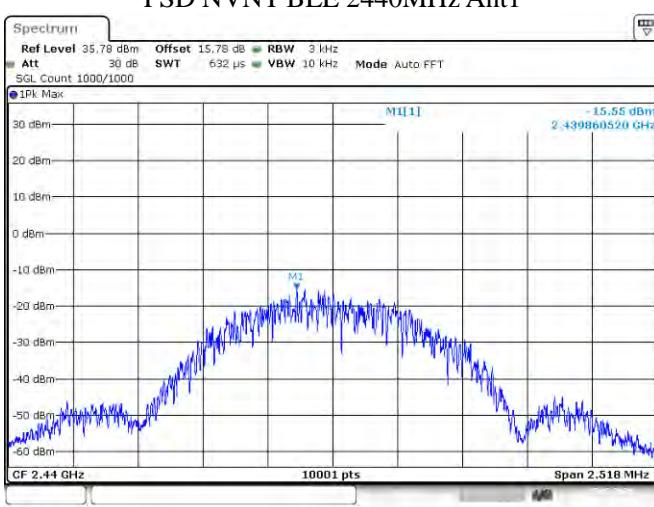
6.4. Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm)	Result
CH0	2402	-16.136	8	PASS
CH19	2440	-15.549	8	PASS
CH39	2480	-14.11	8	PASS
Conclusion: PASS				

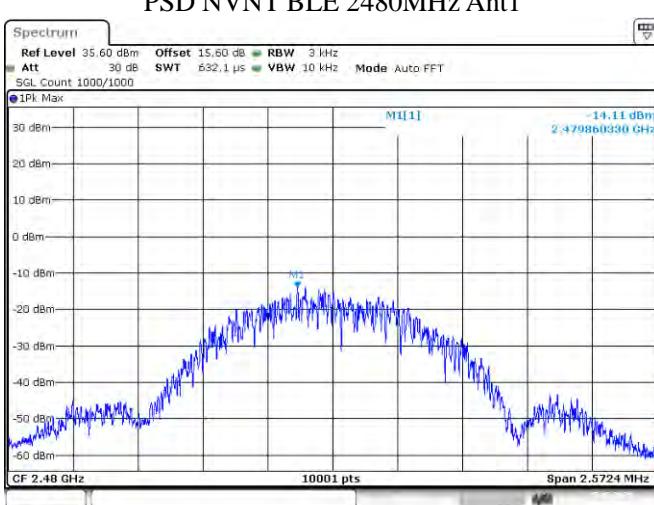
PSD NVNT BLE 2402MHz Ant1



PSD NVNT BLE 2440MHz Ant1



PSD NVNT BLE 2480MHz Ant1



7. Bandwidth

7.1. Test limits

Please refer section RSS-247 & 15.247

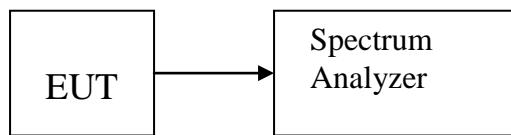
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 100kHz, VBW $\geq 3 \times \text{RBW}$ = 300kHz, Sweep time set auto, detail see the test plot.

7.3. Test Setup



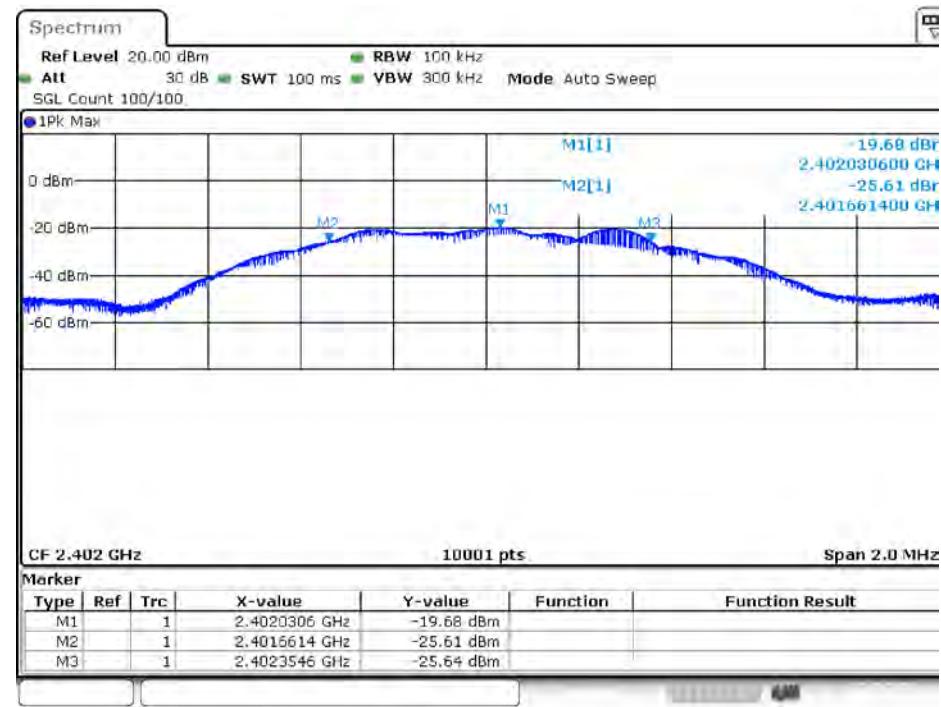
7.4. Test Results

Frequency (MHz)	Antenna	99% OBW (MHz)	-6 dB Bandwidth(MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
2402	Ant 1	1.0315	0.6932	0.5	Pass
2440	Ant 1	1.0337	0.6938	0.5	Pass
2480	Ant 1	1.0335	0.6838	0.5	Pass

OBW NVNT BLE 2402MHz Ant1



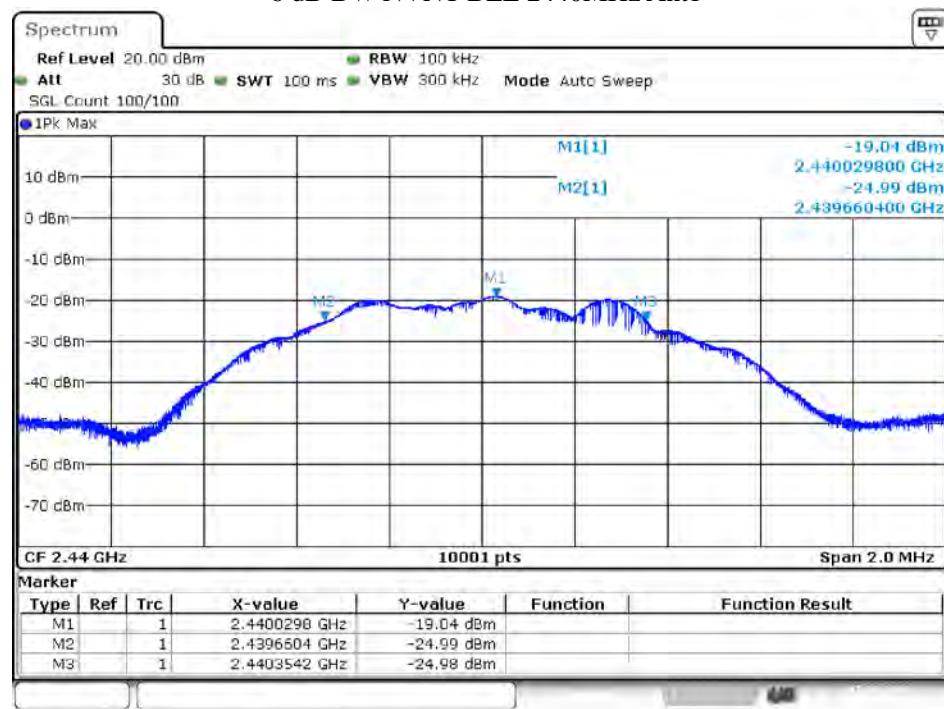
-6 dB BW NVNT BLE 2402MHz Ant1



OBW NVNT BLE 2440MHz Ant1



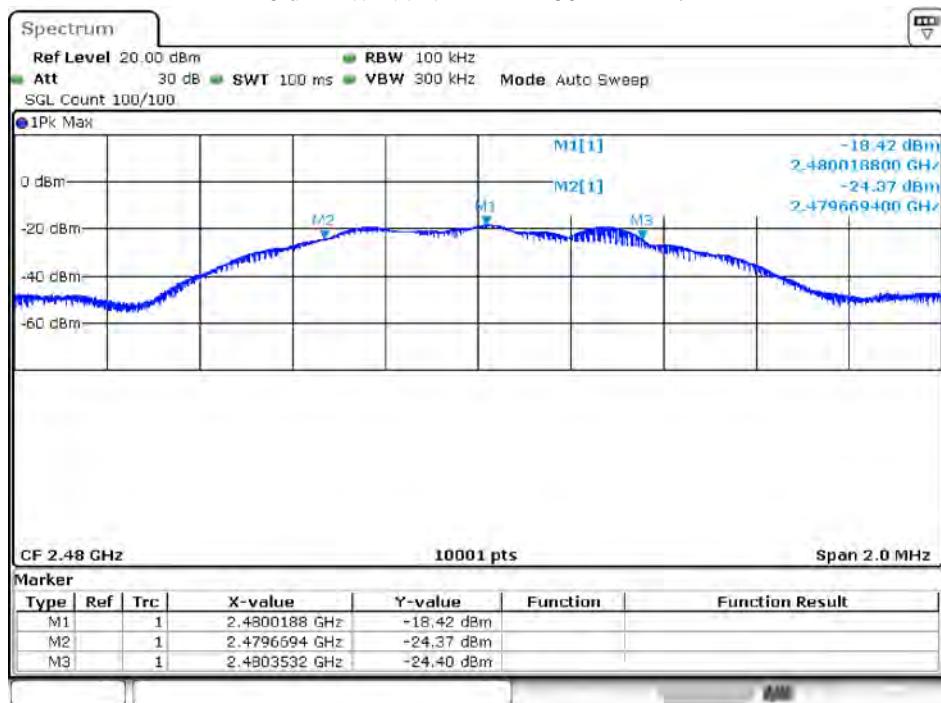
-6 dB BW NVNT BLE 2440MHz Ant1



OBW NVNT BLE 2480MHz Ant1



-6 dB BW NVNT BLE 2480MHz Ant1



8. Band Edge Check

8.1. Test limits

Please refer section RSS-GEN&15.247.

8.2. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

8.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

8.3. Test Setup

Same as 5.2.2.

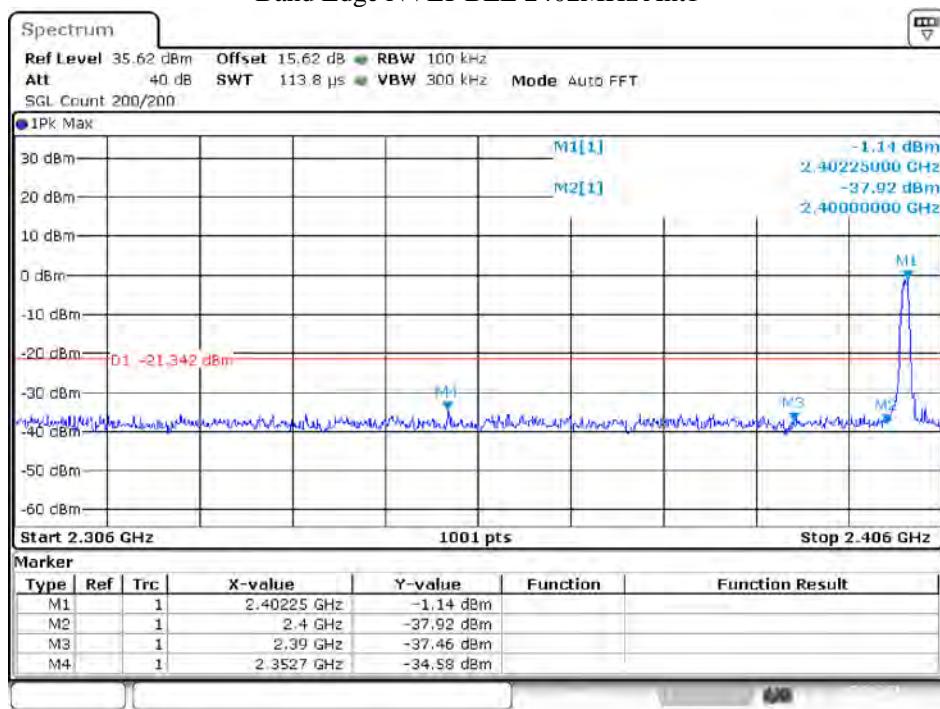
8.4. Test Results

Pass

The results are shown on the next page.

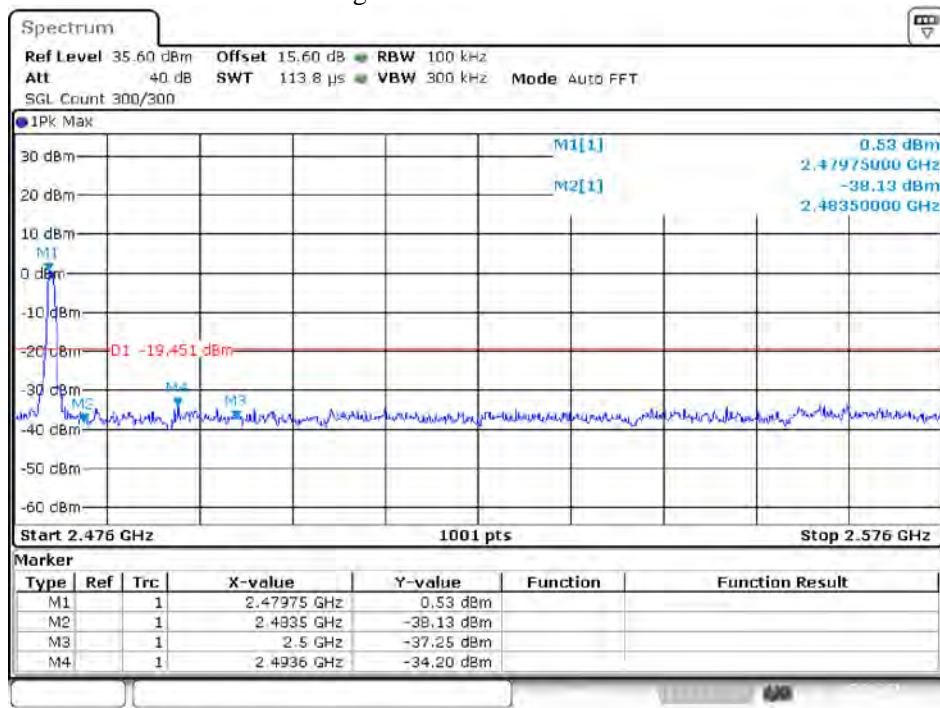
GFSK

Band Edge NVLT BLE 2402MHz Ant1



Date: 15.MAR.2021 11:41:25

Band Edge NVLT BLE 2480MHz Ant1

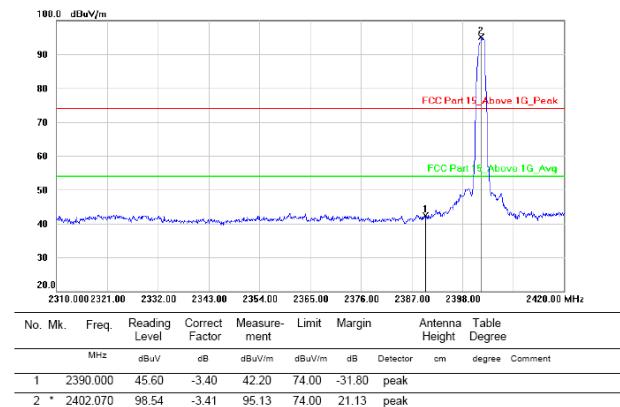


Date: 15.MAR.2021 11:40:02

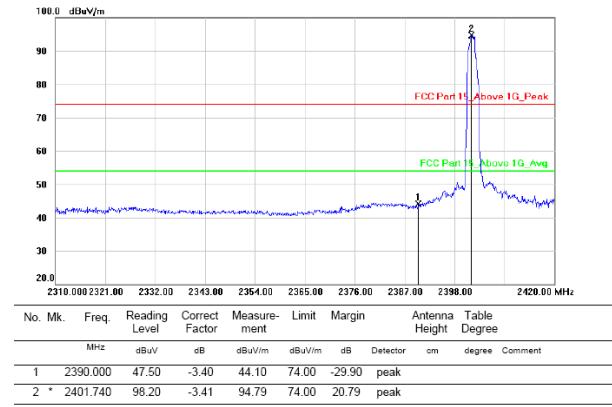
Radiated Method: GFSK

Test Mode: Low

Polarization: Vertical

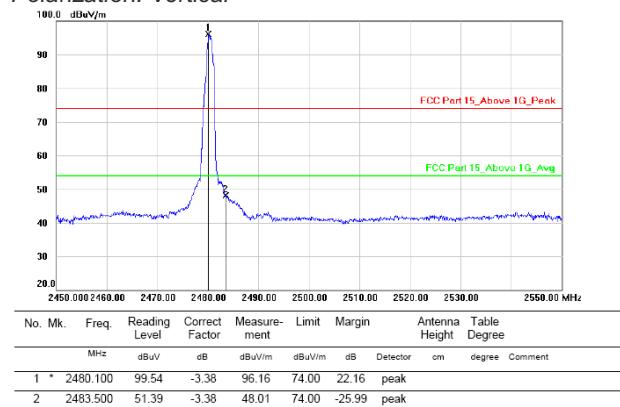


Polarization: Horizontal

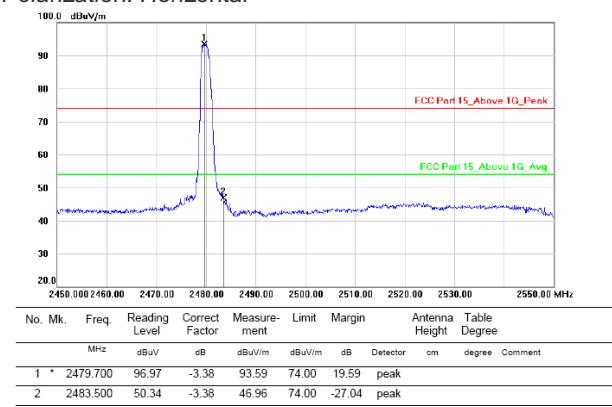


Test Mode: High

Polarization: Vertical



Polarization: Horizontal



9. Antenna Requirement

9.1. Standard 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 shall be considered sufficient to comply with the provisions of this Section. 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.

9.2. Antenna Connected Construction

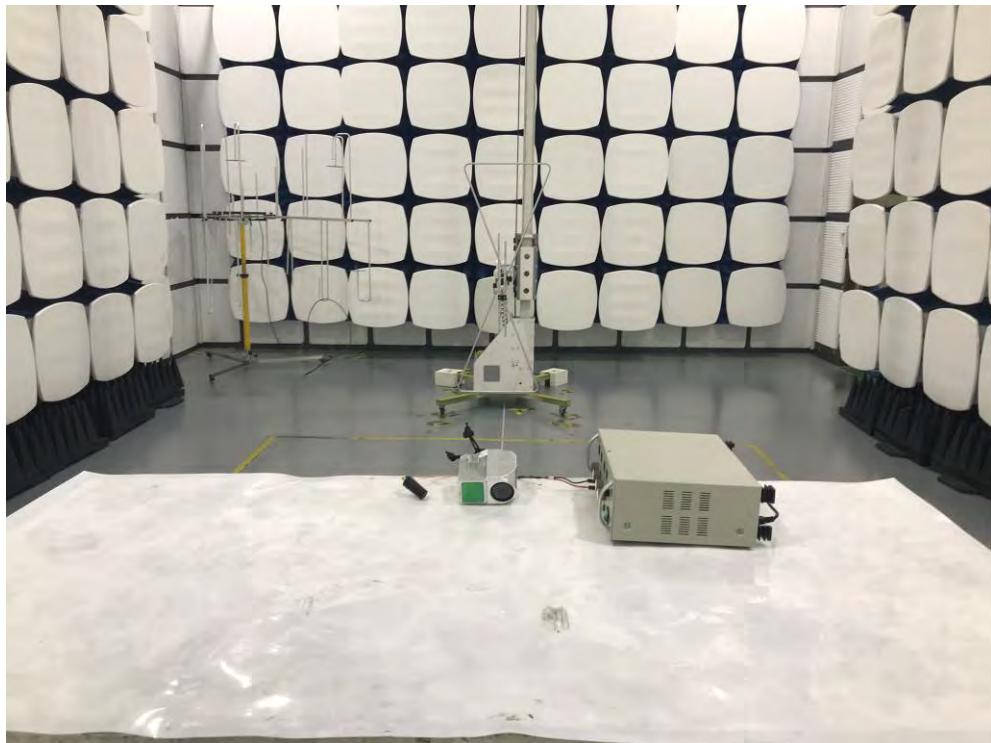
The antenna is internal antenna and no consideration of replacement. Please see EUT photo for details.

9.3. Results

The EUT antenna is Internal Antenna. It complies with the standard requirement.

10. Test Setup Photo

10.1. Photos of Radiated emission

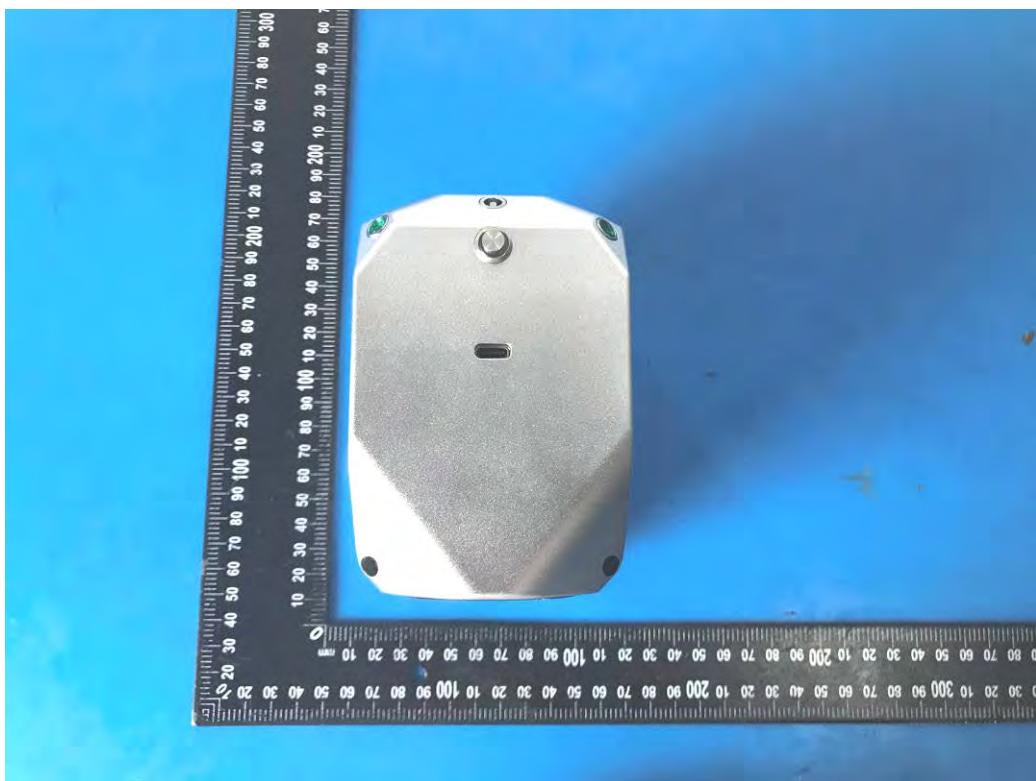
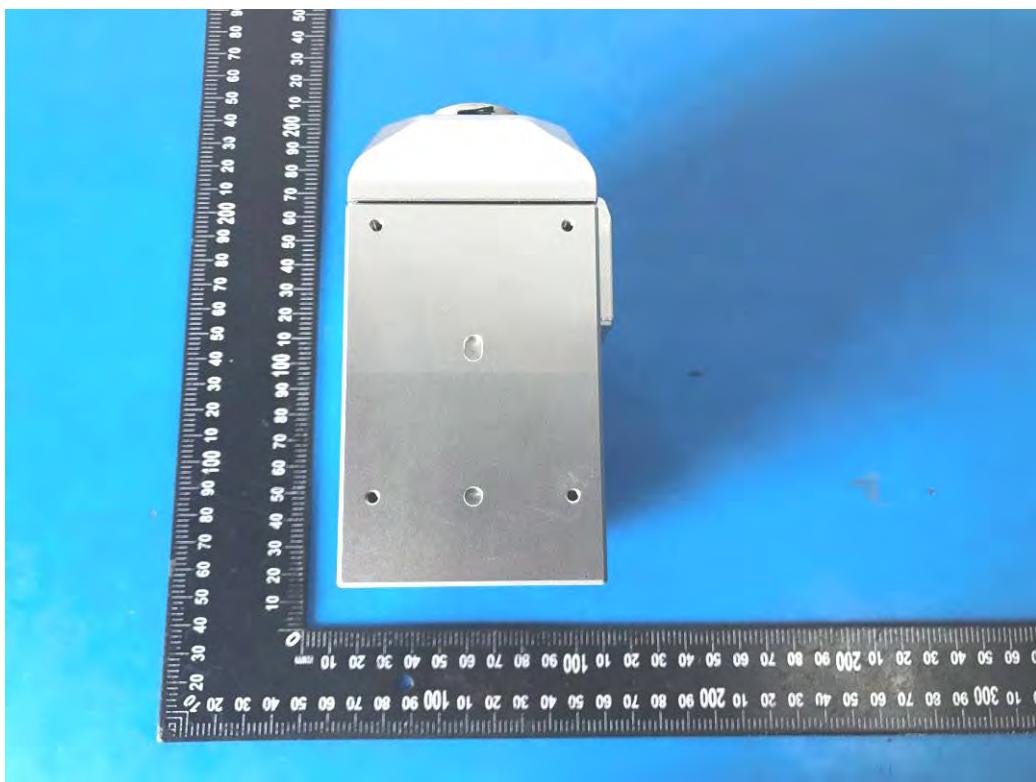


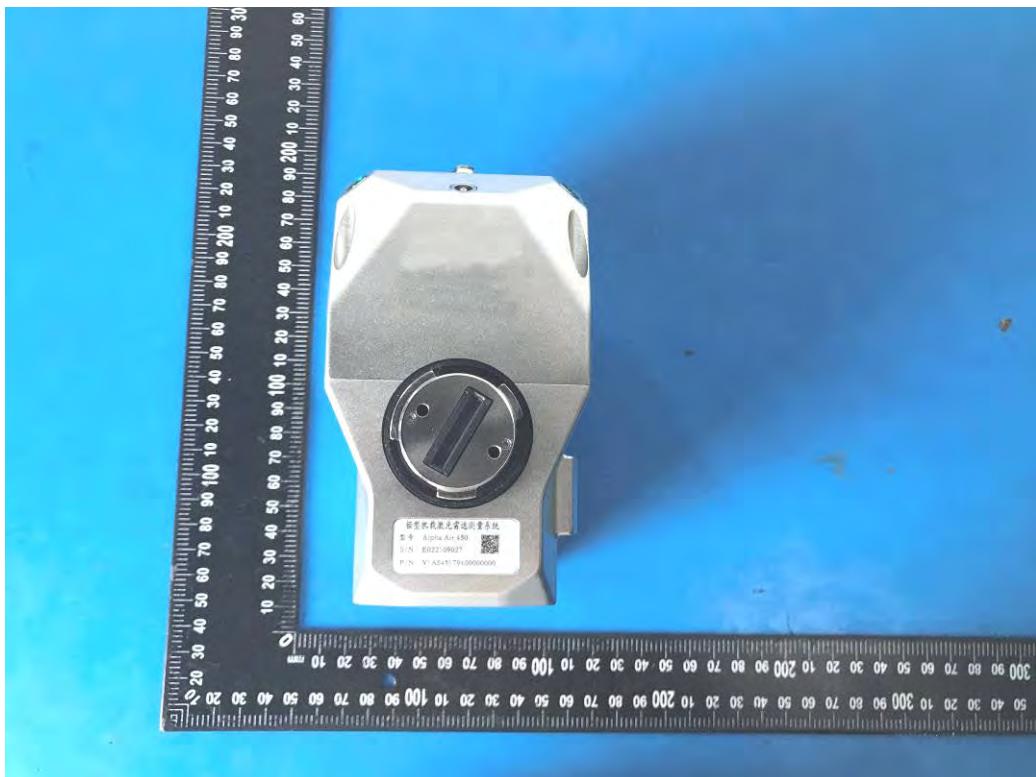
10.2.Photos of Conducted Emission test

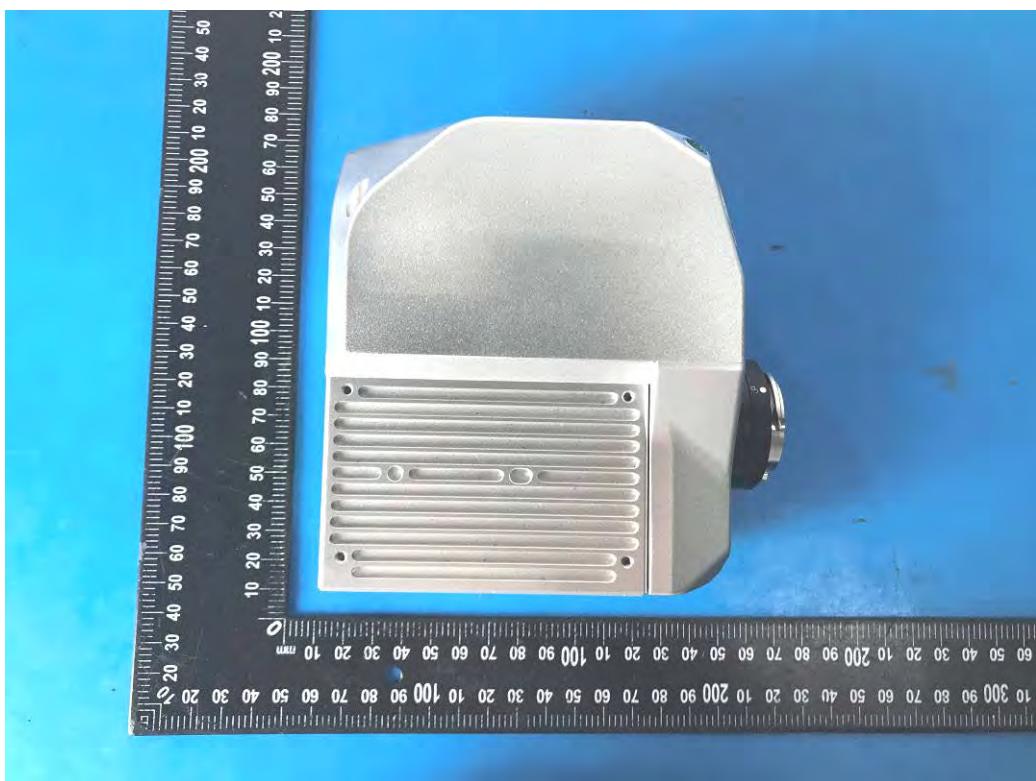
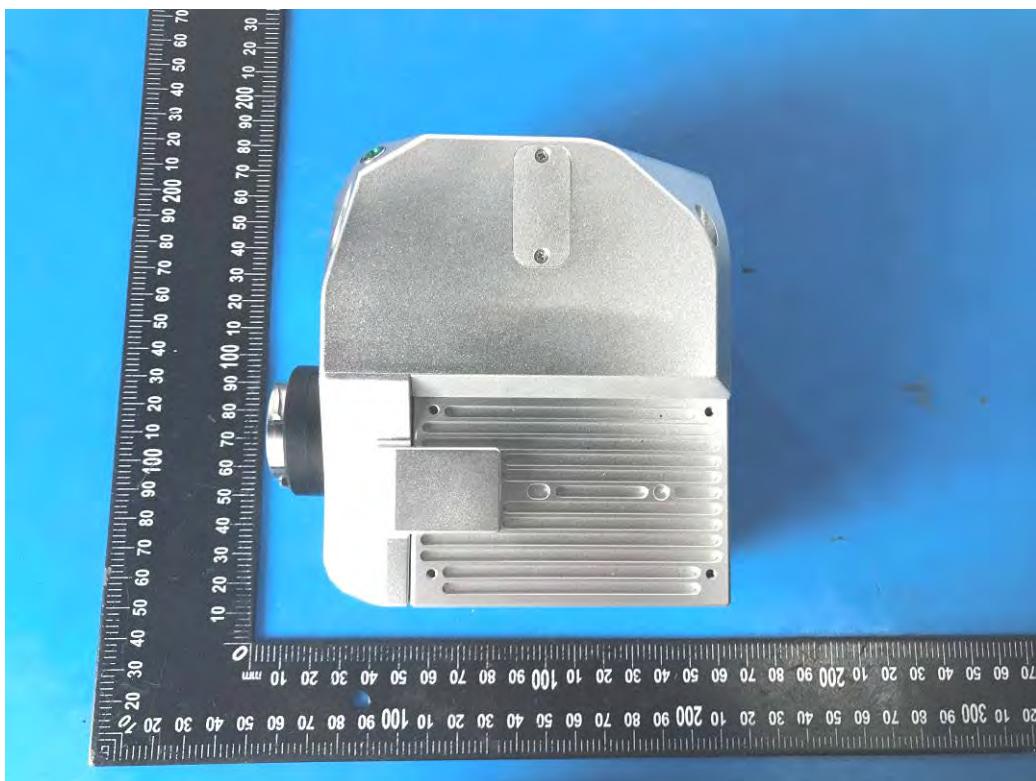


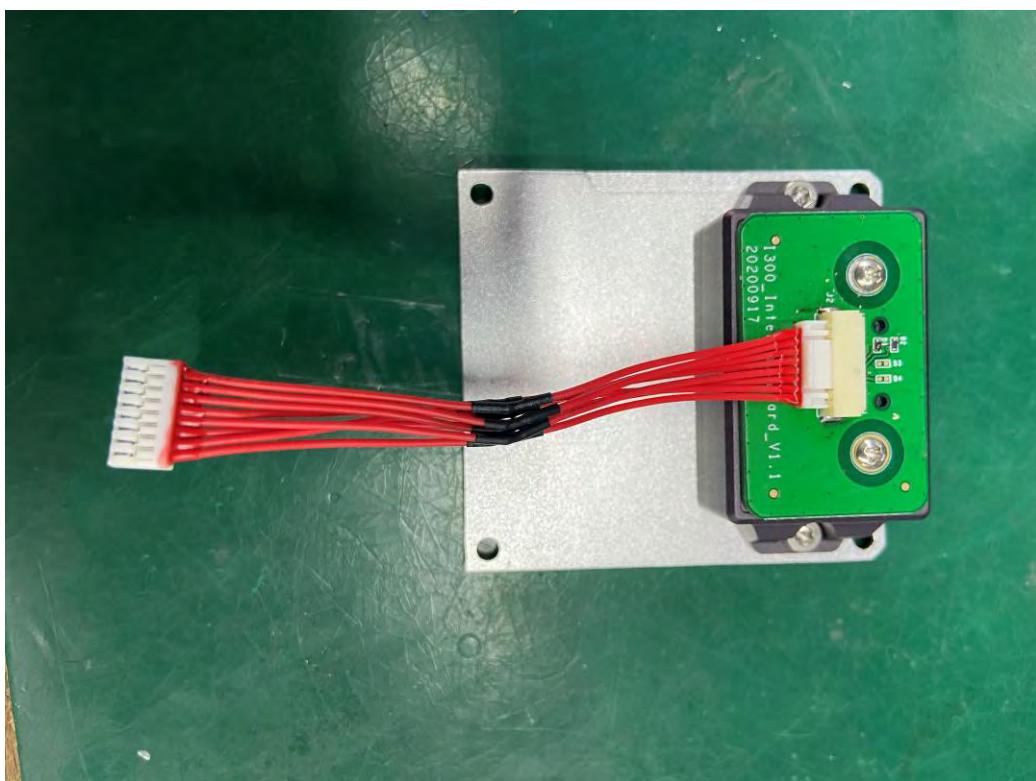
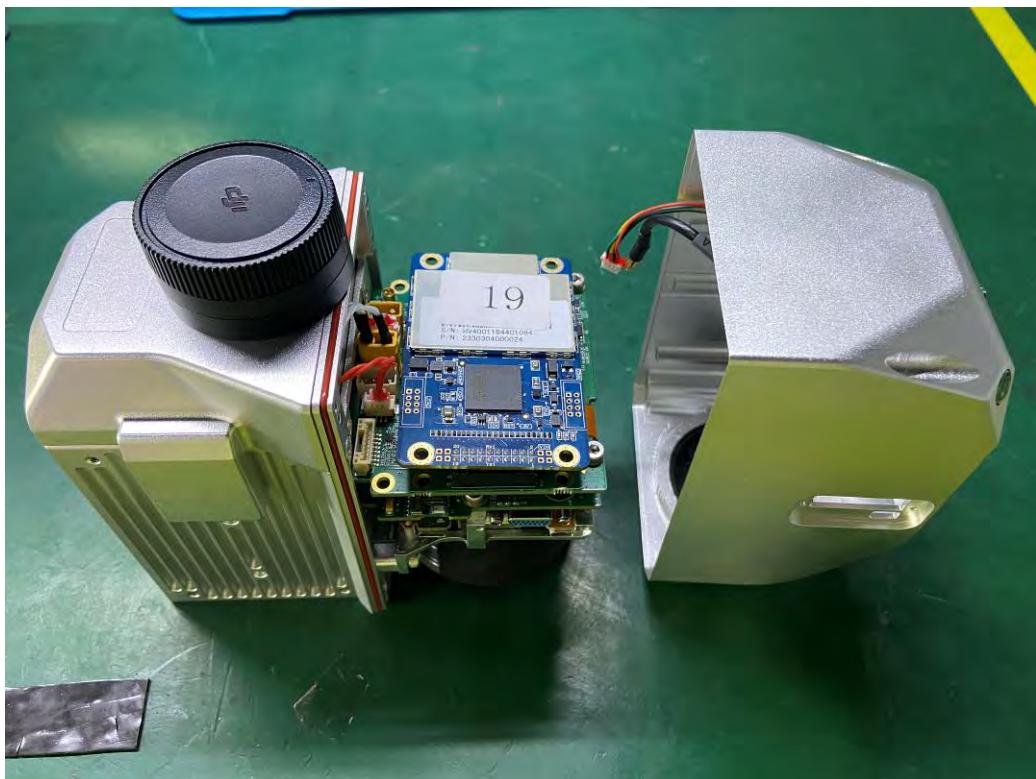
11. EUT PHOTO

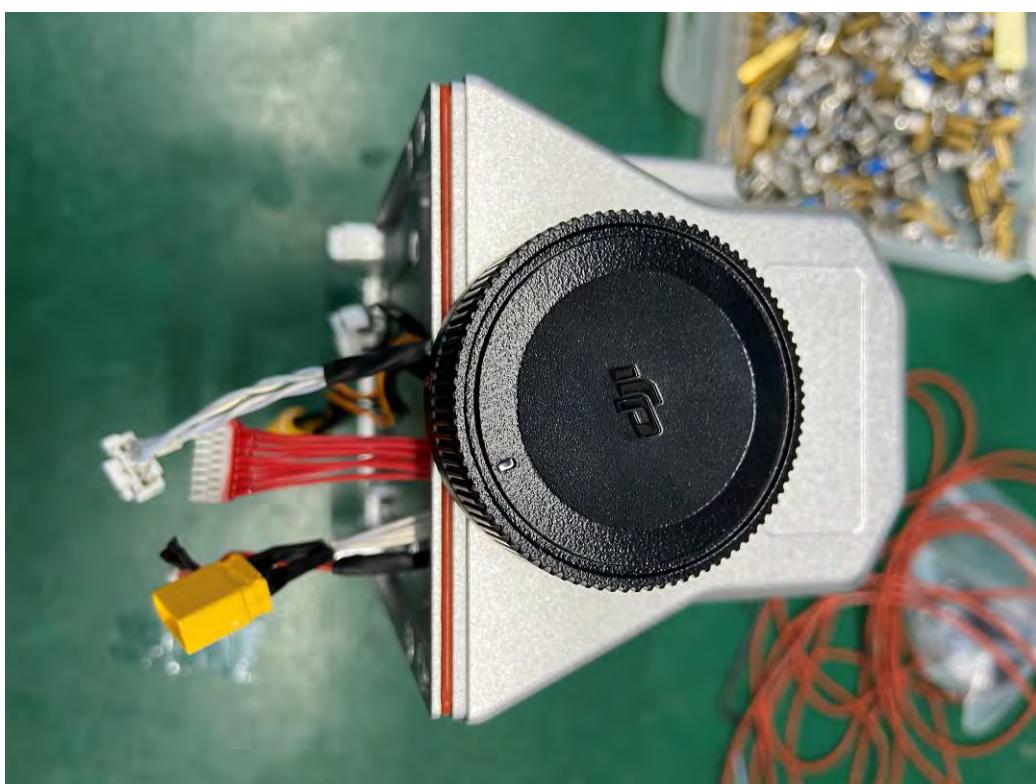
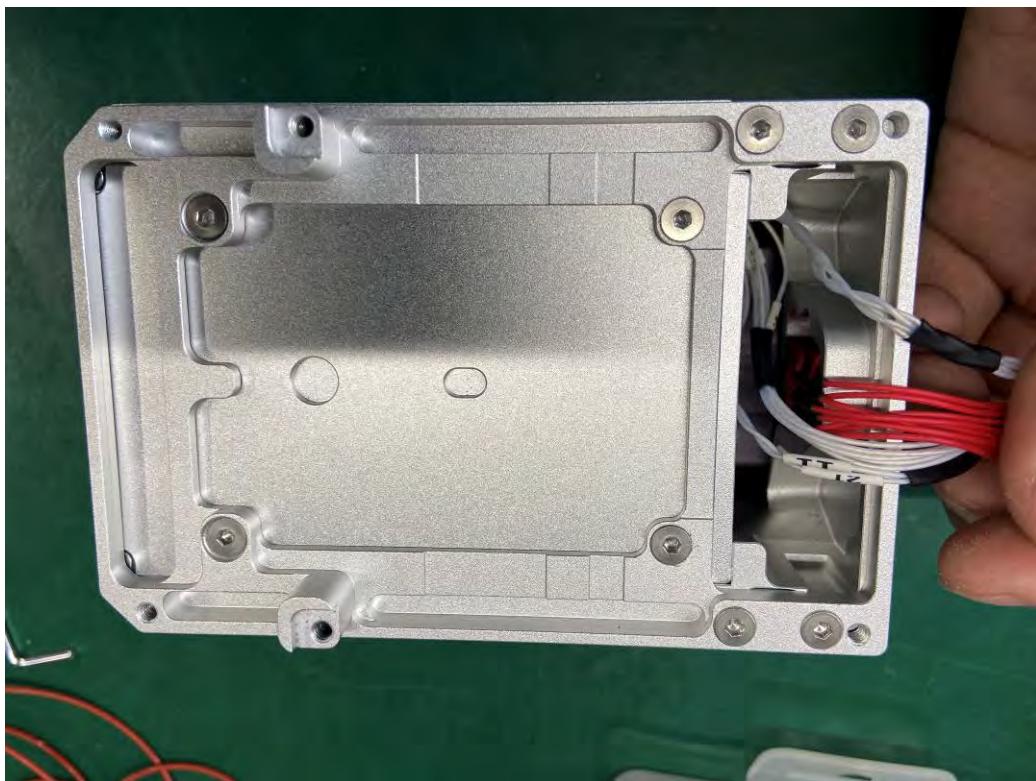


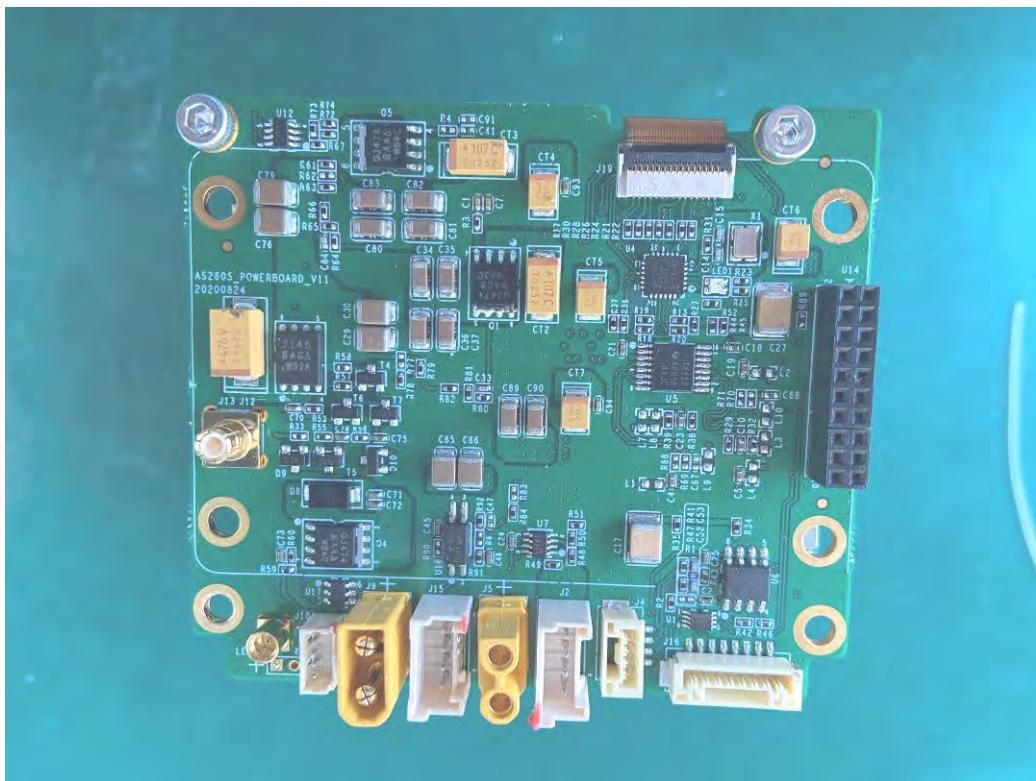


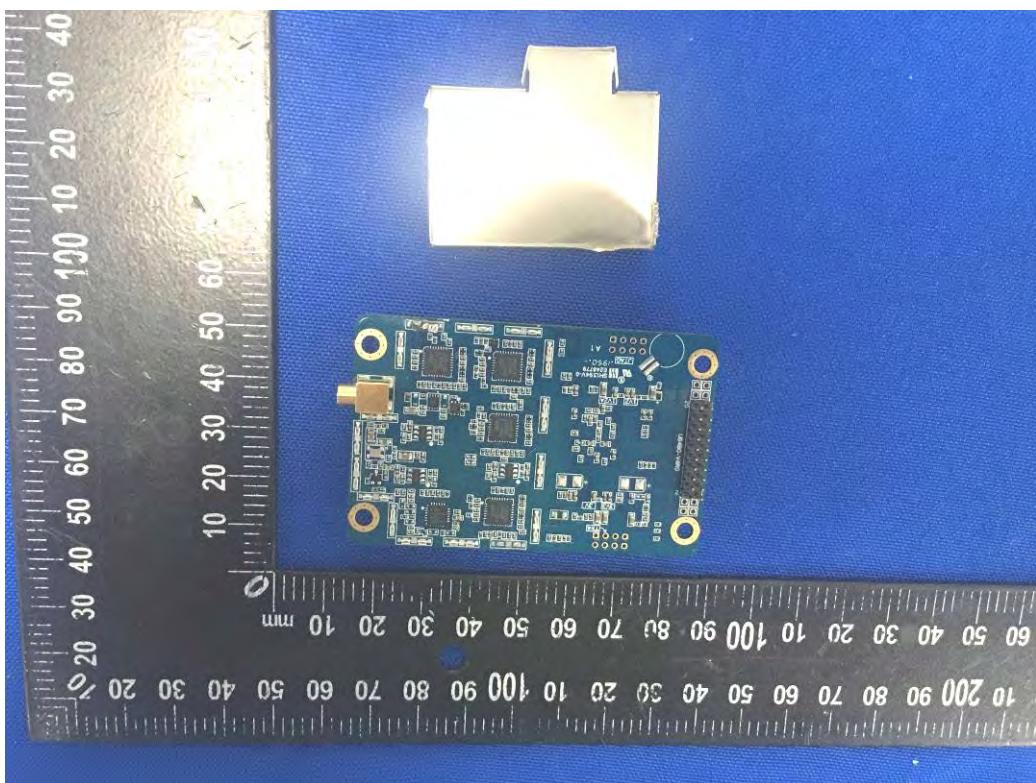


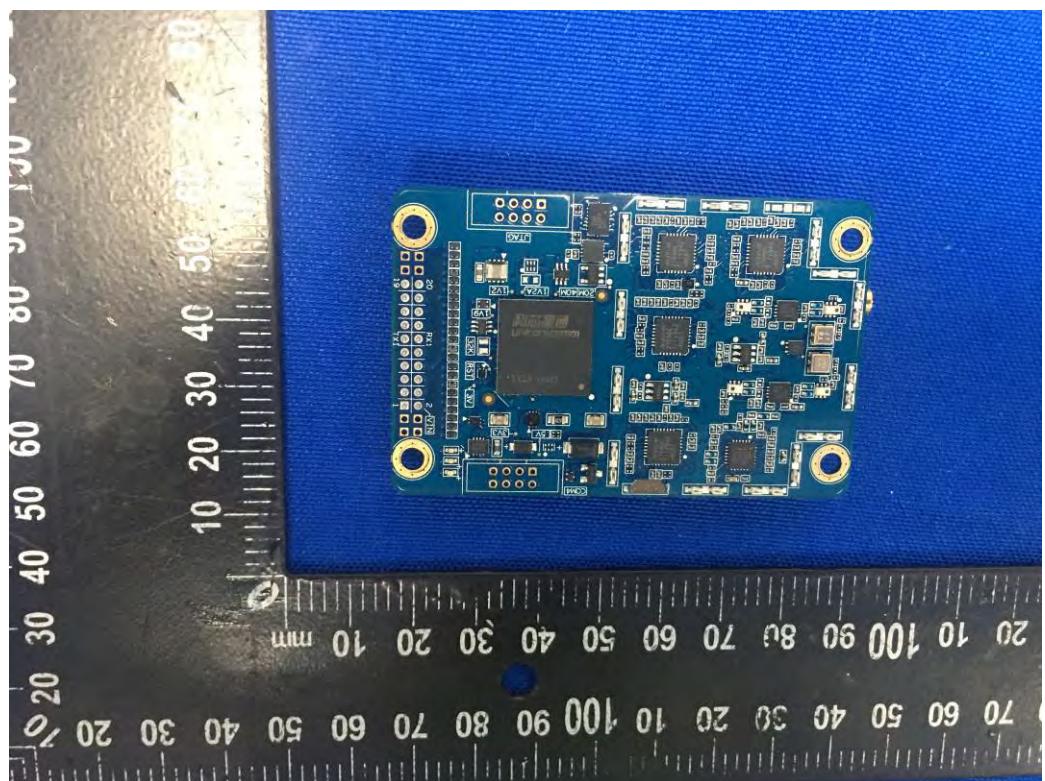
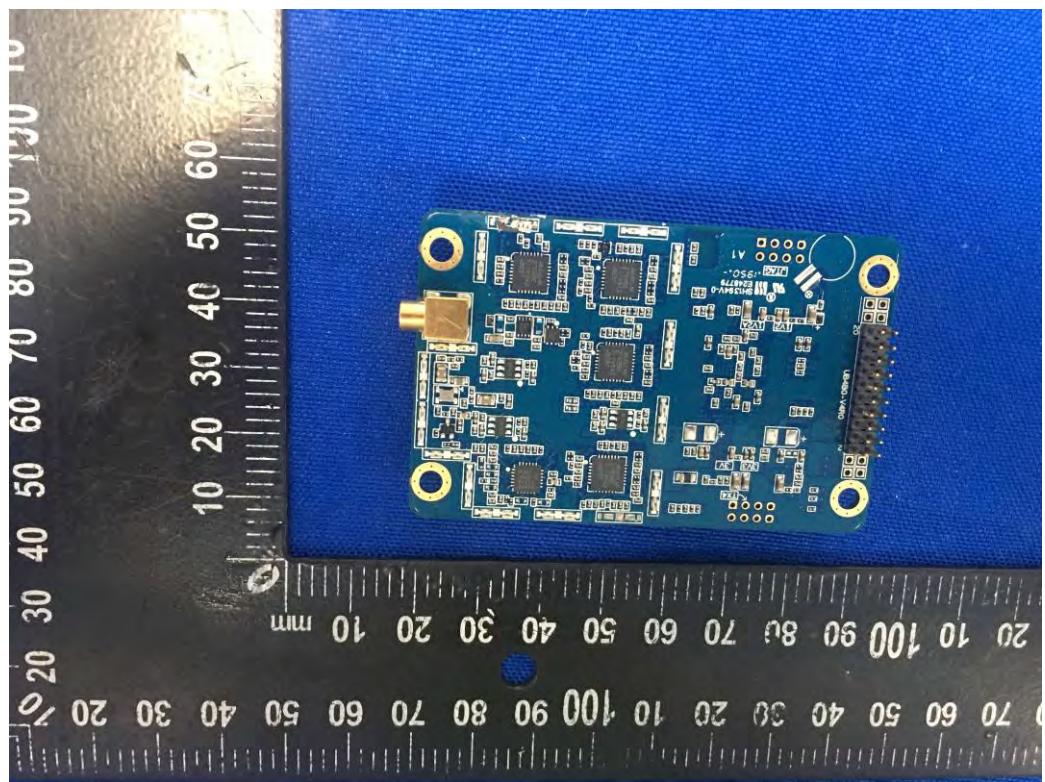


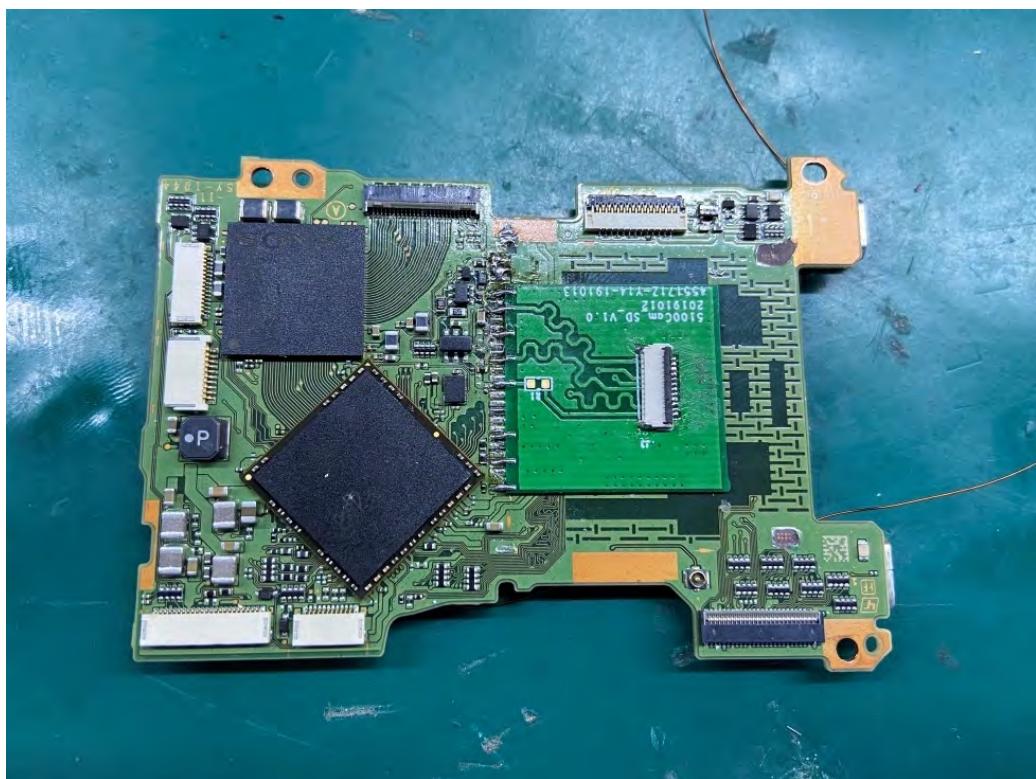
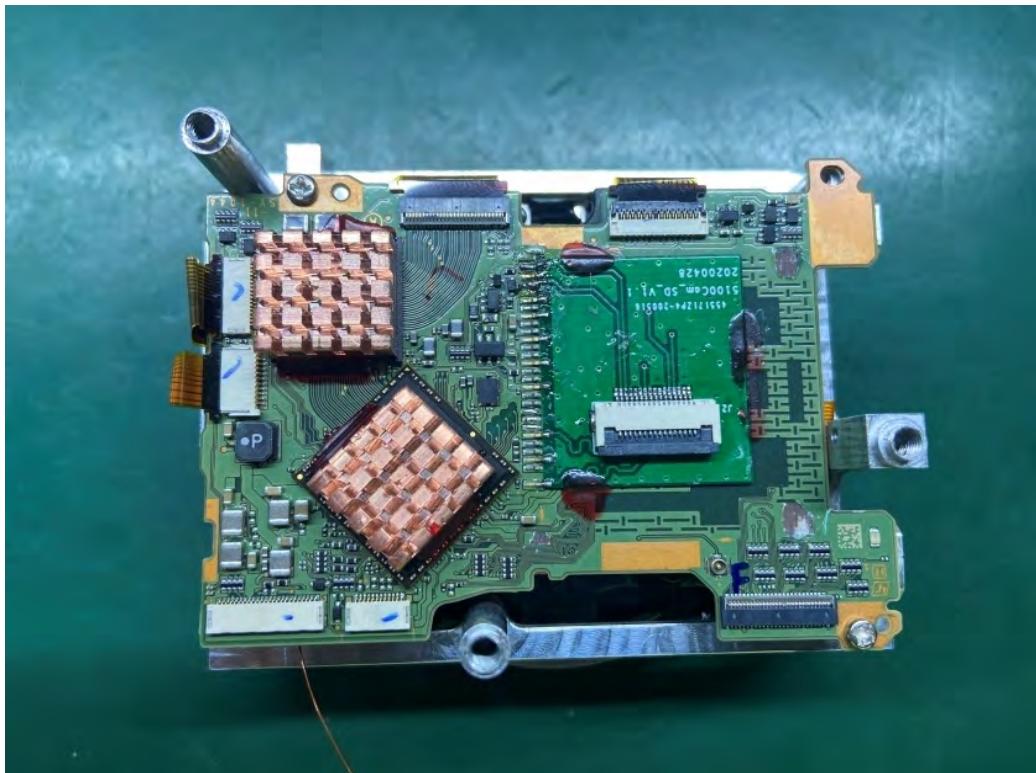


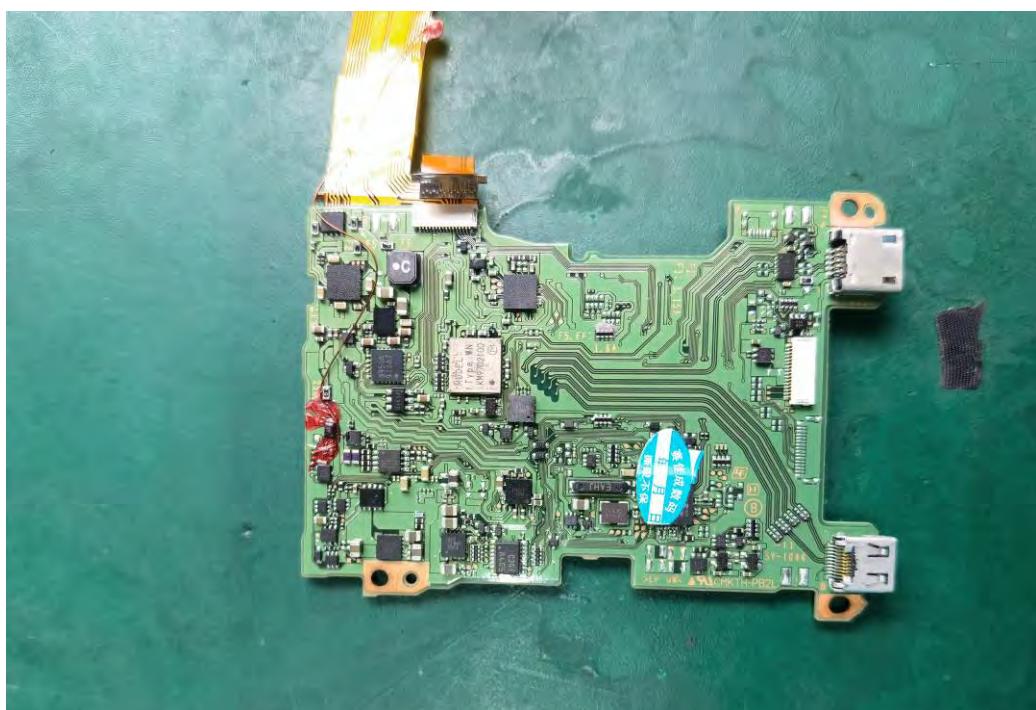


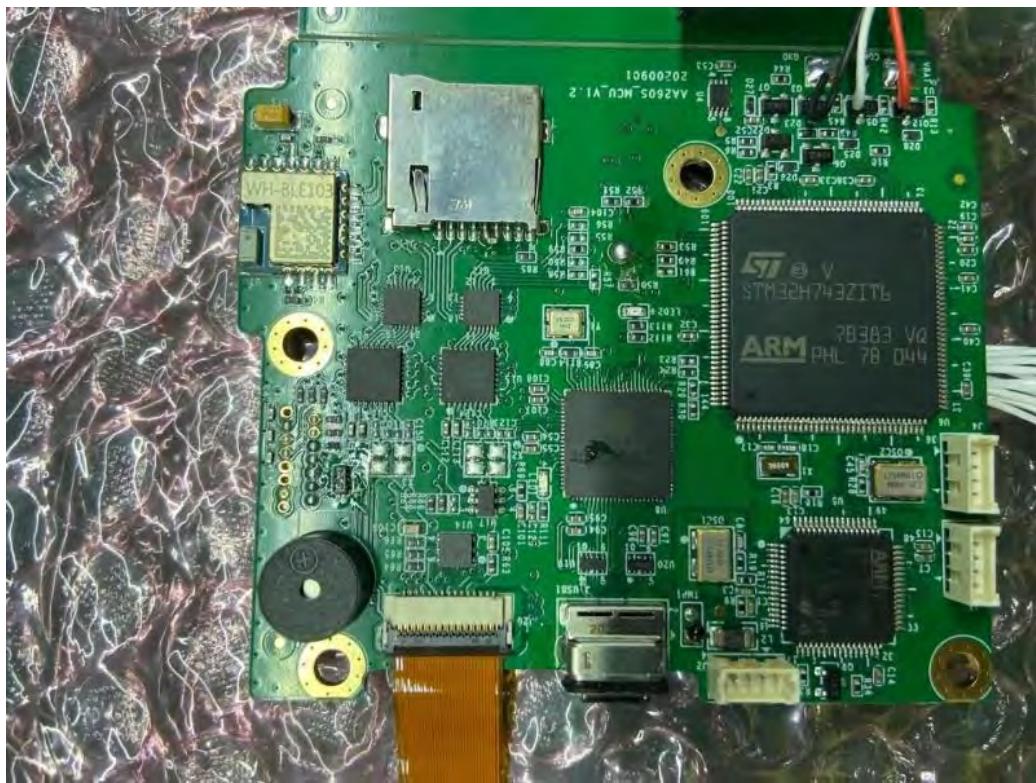
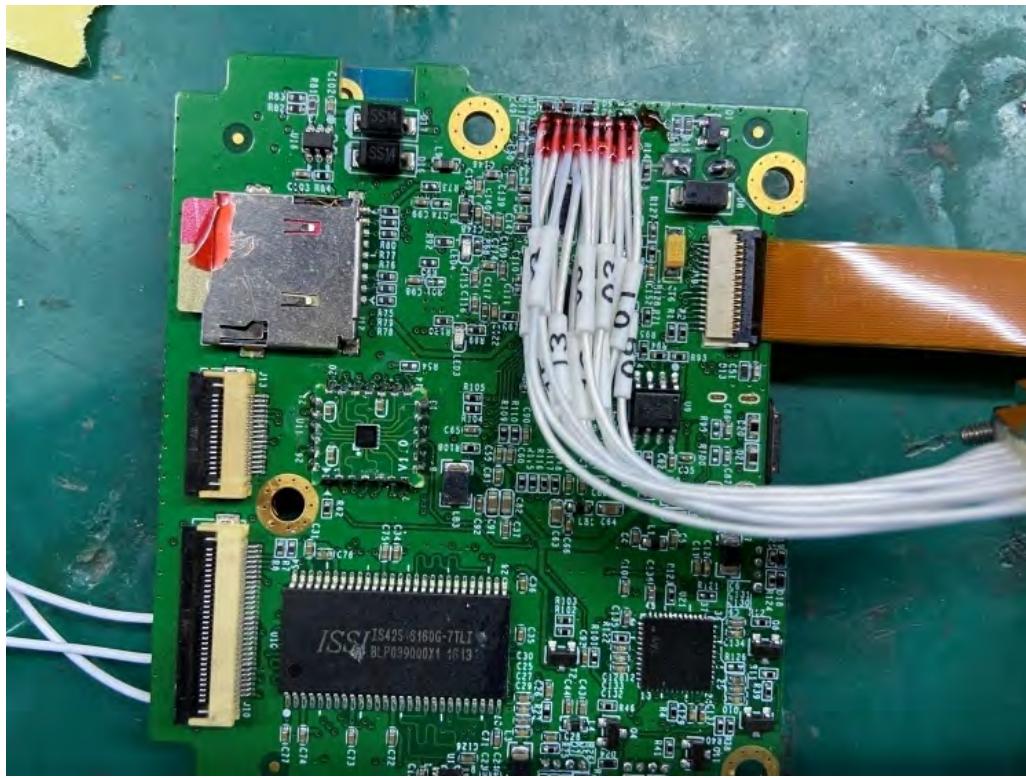


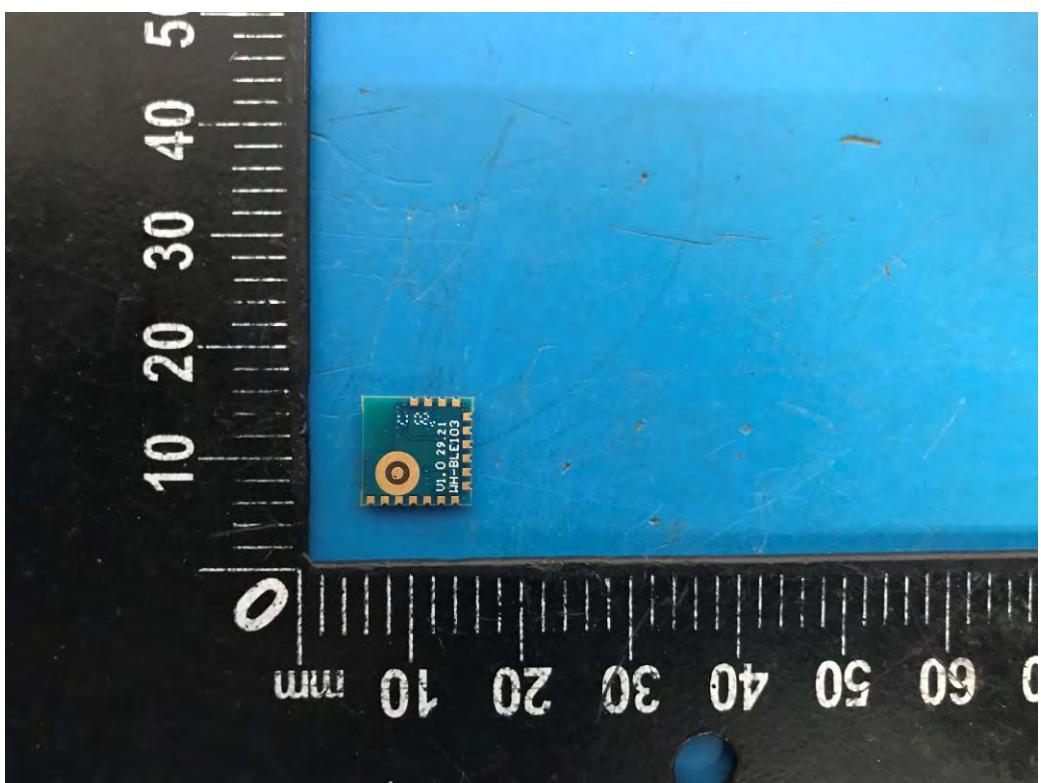
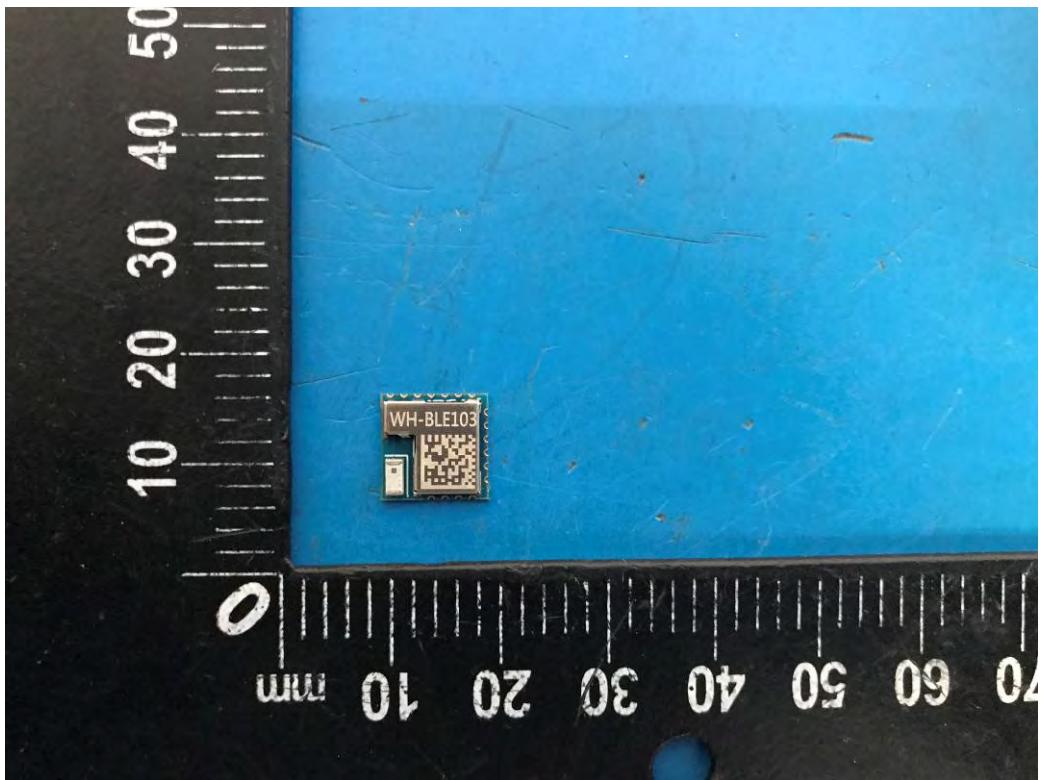


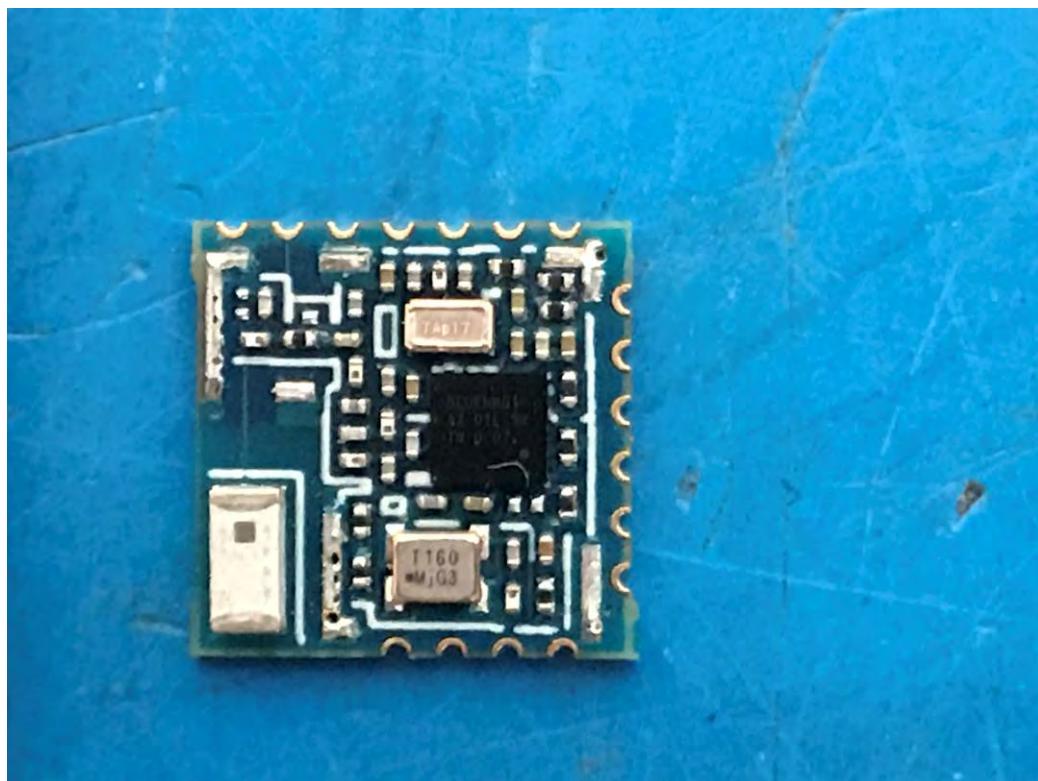
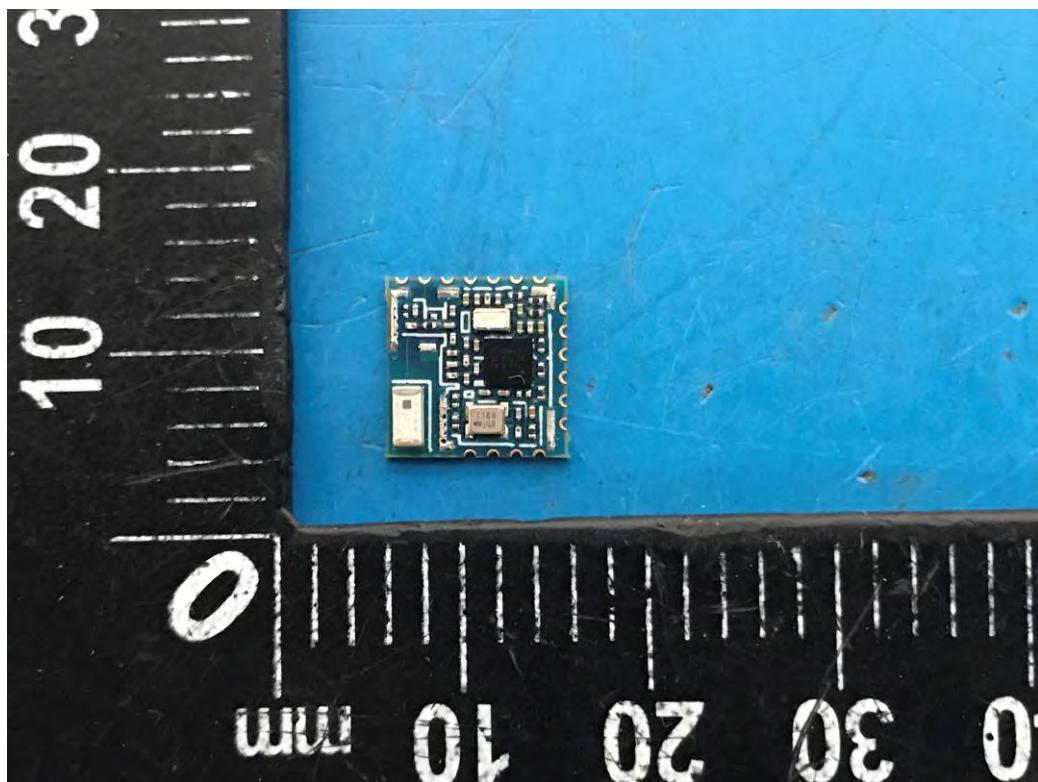












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