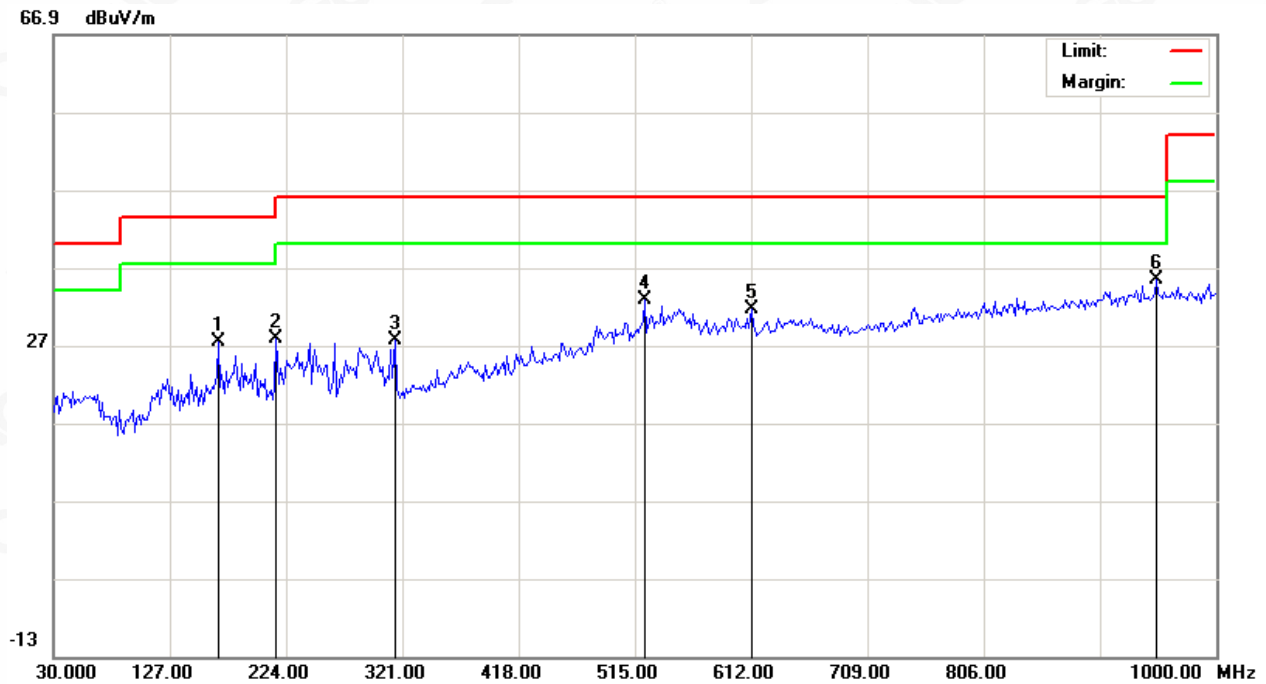


EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1		167.4167	8.99	18.43	27.42	43.50	-16.08	peak			
2		215.9167	10.78	17.00	27.78	43.50	-15.72	peak			
3		314.5333	7.62	19.98	27.60	46.00	-18.40	peak			
4		523.0833	7.31	25.44	32.75	46.00	-13.25	peak			
5		612.0000	4.55	27.09	31.64	46.00	-14.36	peak			
6	*	949.8833	3.34	32.13	35.47	46.00	-10.53	peak			

**RESULT: PASS**

**Note:** All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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



**RADIATED EMISSION ABOVE 1GHZ**

<b>EUT</b>	WIRELESS USB ADAPTER	<b>Model Name</b>	6B14
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5180MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
10360.042	46.26	9.14	55.40	74.00	-18.60	peak
10360.042	36.34	9.14	45.48	54.00	-8.52	AVG
15540.063	44.78	10.22	55.00	74.00	-19.00	peak
15540.063	35.13	10.22	45.35	54.00	-8.65	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
10360.042	45.23	9.14	54.37	74.00	-19.63	peak
10360.042	36.15	9.14	45.29	54.00	-8.71	AVG
15540.063	43.99	10.22	54.21	74.00	-19.79	peak
15540.063	35.09	10.22	45.31	54.00	-8.69	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



<b>EUT</b>	WIRELESS USB ADAPTER	<b>Model Name</b>	6B14
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5240MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
10480.042	46.39	9.27	55.66	74.00	-18.34	peak
10480.042	37.12	9.27	46.39	54.00	-7.61	AVG
15720.063	43.33	10.38	53.71	74.00	-20.29	peak
15720.063	34.25	10.38	44.63	54.00	-9.37	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
10480.042	45.16	9.27	54.43	74.00	-19.57	peak
10480.042	36.29	9.27	45.56	54.00	-8.44	AVG
15720.063	43.87	10.38	54.25	74.00	-19.75	peak
15720.063	34.15	10.38	44.53	54.00	-9.47	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**Note:** All the case had been tested. The 802.11a modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

## 12. BAND EDGE EMISSION

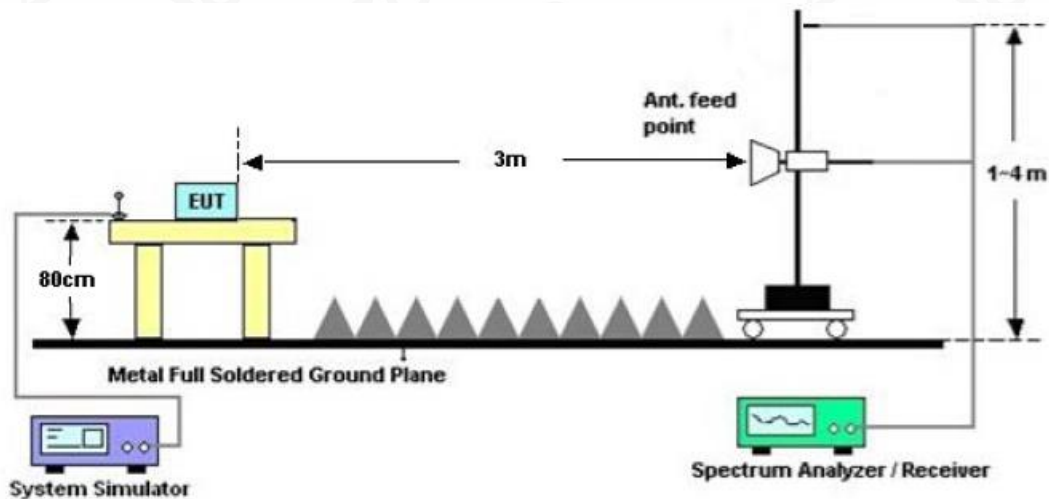
### 12.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO  
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 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( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.
3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

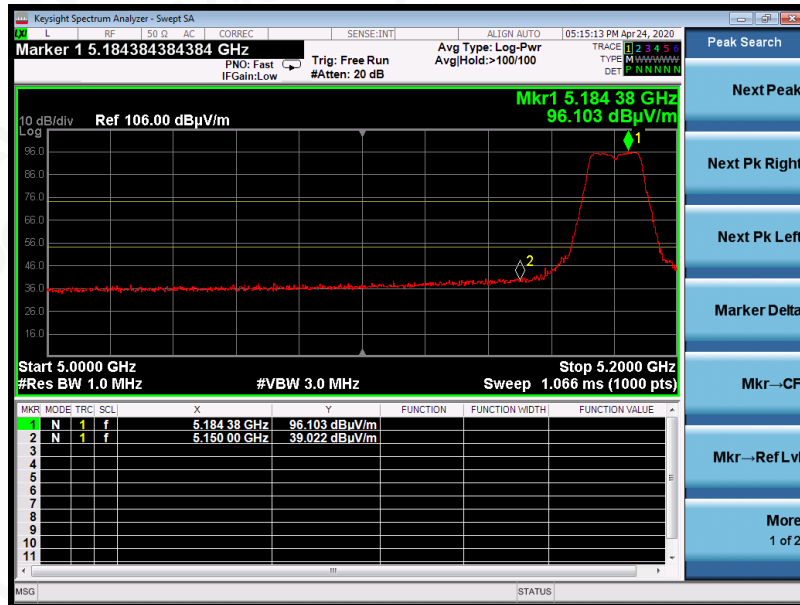
### 12.2. TEST SET-UP



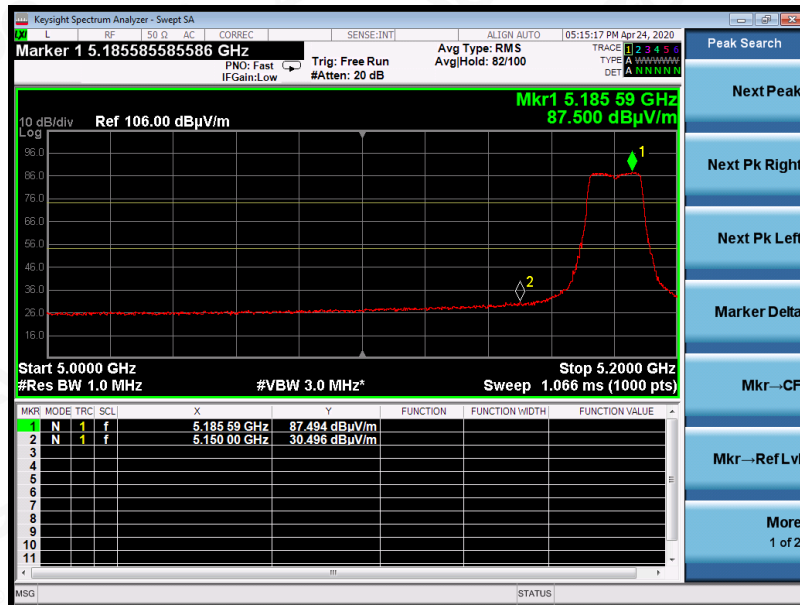
### 12.3. TEST RESULT

EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

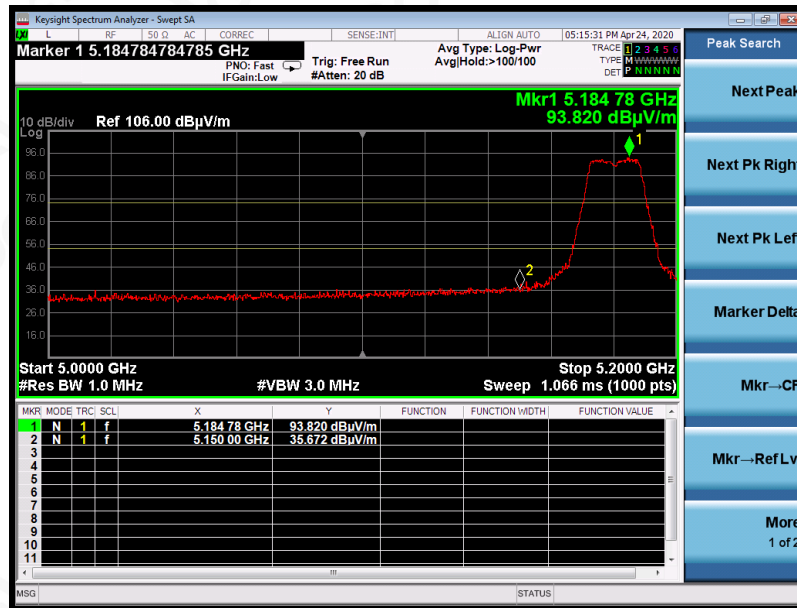
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

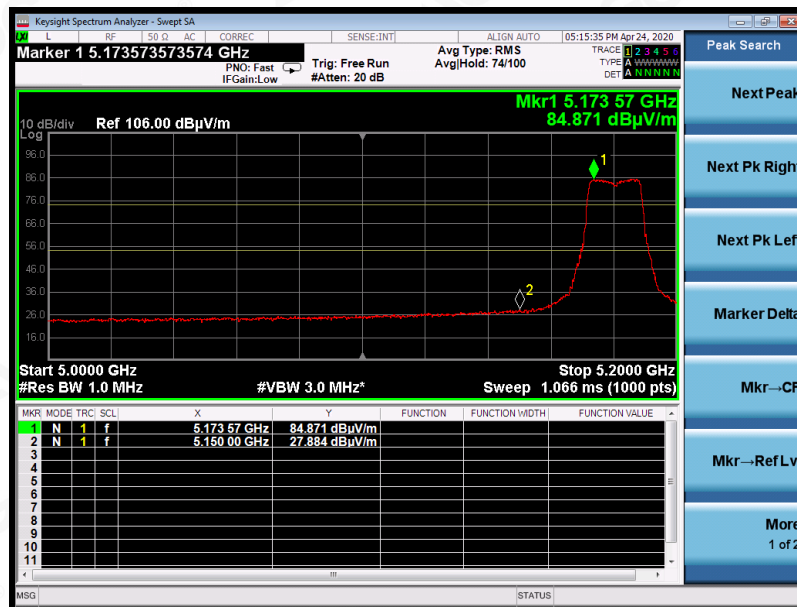
Service Hotline: 400 089 2118

EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



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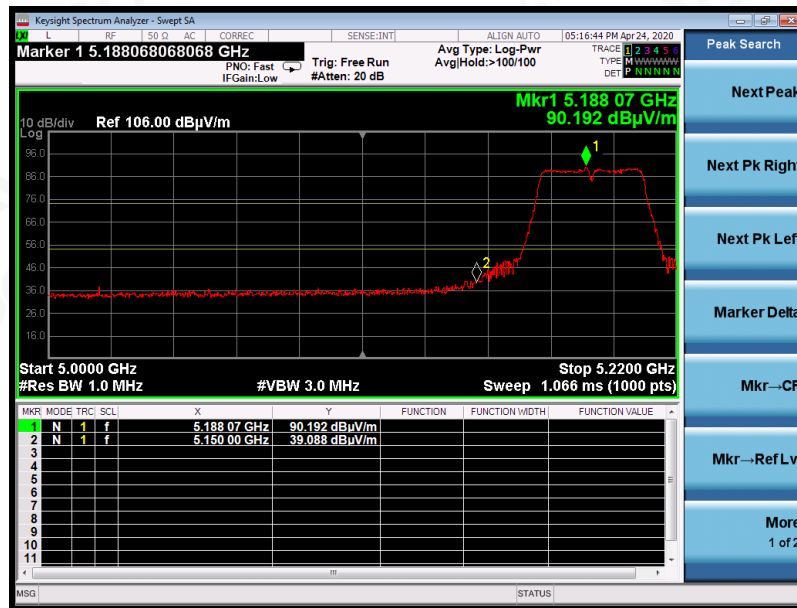
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

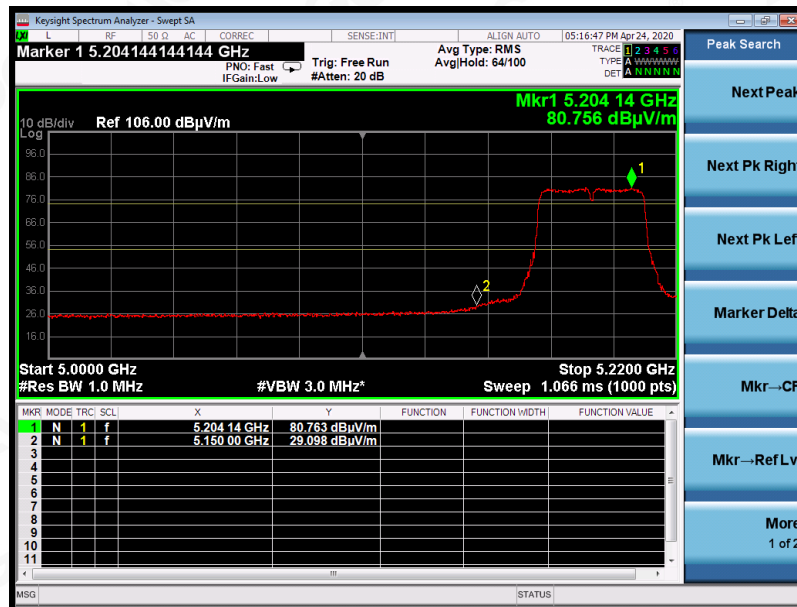
Service Hotline: 400 089 2118

EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



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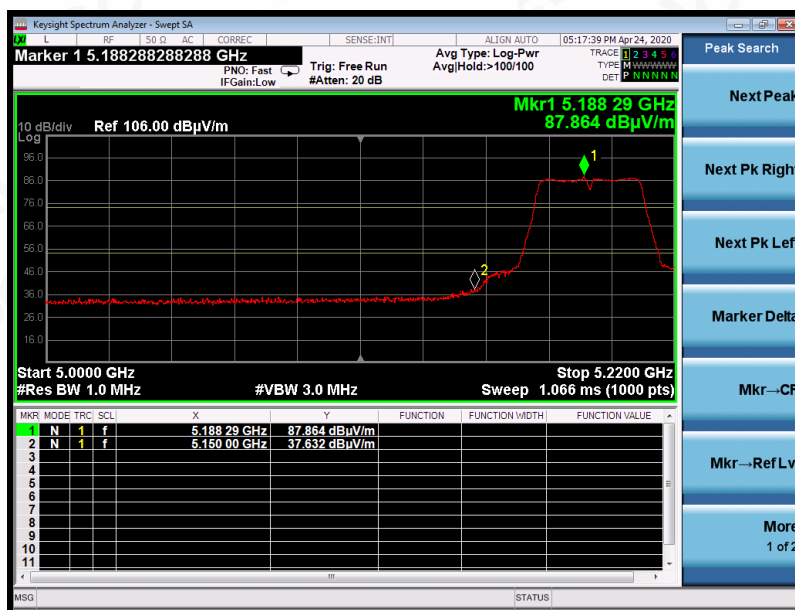
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

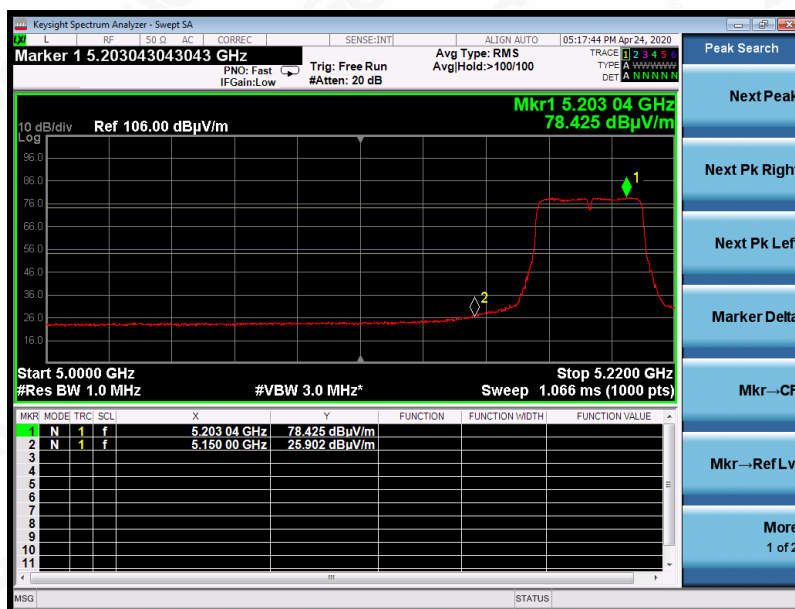
Service Hotline: 400 089 2118

EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

PK Value



AV Value



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Tel: +86-755 2523 4088

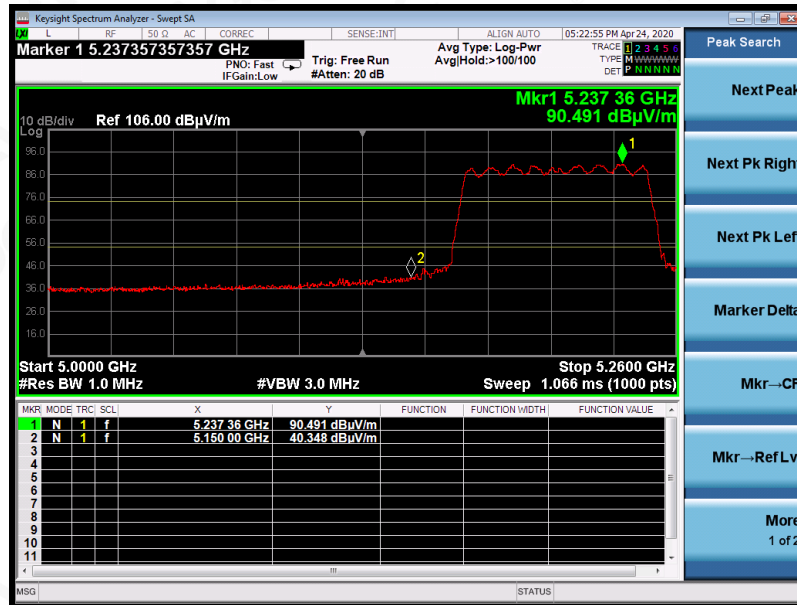
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

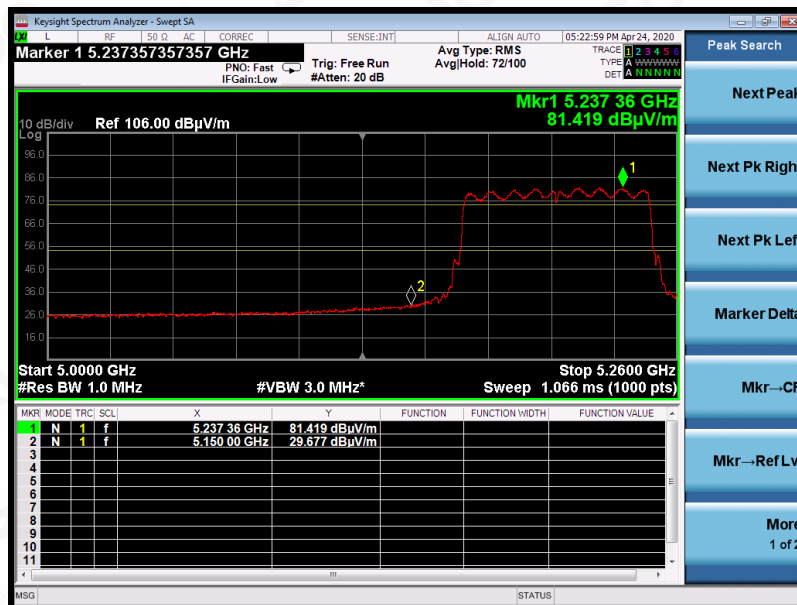


EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

PK Value



AV Value

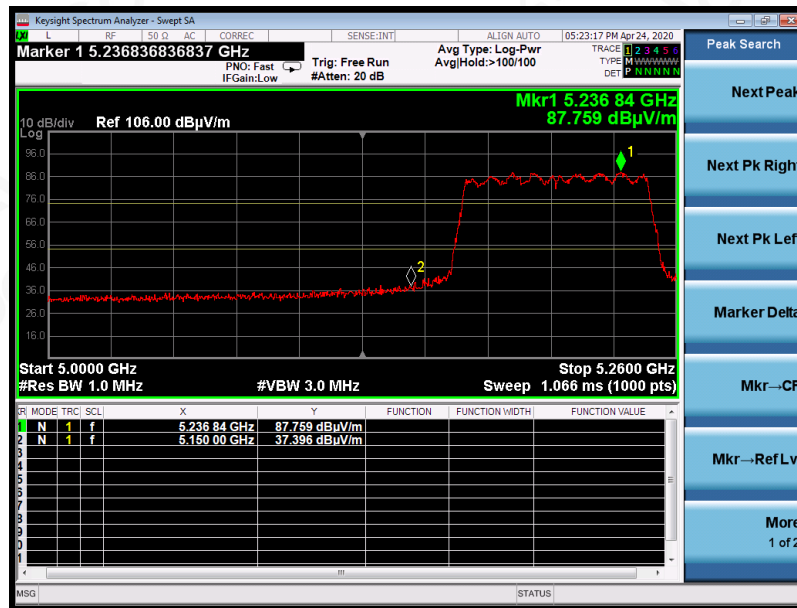


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EUT	WIRELESS USB ADAPTER	Model Name	6B14
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

PK Value



AV Value



**RESULT: PASS**

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.



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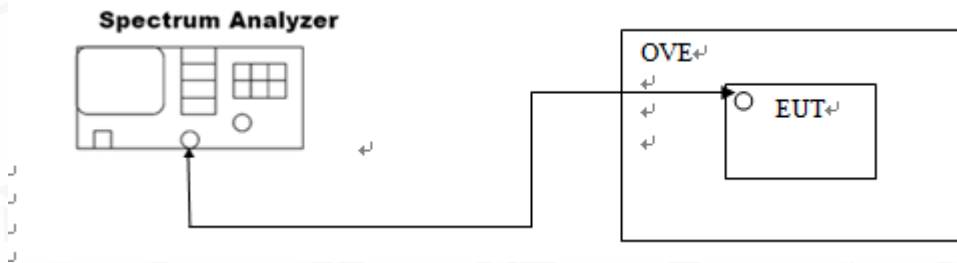
Attestation of Global Compliance(Shenzhen)Co.,Ltd.  
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
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Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

### 13. FREQUENCY STABILITY

#### 13.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the operation frequency.
3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
4. Set SPA Trace 1 Max hold, then View.
5. Extreme temperature rule is -10°C~60°C.

#### 13.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



**13.3. MEASUREMENT RESULTS**

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11a	- 10°C	5180	within the band	PASS
	0°C	5180	within the band	PASS
	10°C	5180	within the band	PASS
	20°C	5180	within the band	PASS
	30°C	5180	within the band	PASS
	40°C	5180	within the band	PASS
	50°C	5180	within the band	PASS
	60°C	5180	within the band	PASS
	- 10°C	5240	within the band	PASS
	0°C	5240	within the band	PASS
	10°C	5240	within the band	PASS
	20°C	5240	within the band	PASS
	30°C	5240	within the band	PASS
	40°C	5240	within the band	PASS
	50°C	5240	within the band	PASS
	60°C	5240	within the band	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n20	- 10°C	5180	within the band	PASS
	0°C	5180	within the band	PASS
	10°C	5180	within the band	PASS
	20°C	5180	within the band	PASS
	30°C	5180	within the band	PASS
	40°C	5180	within the band	PASS
	50°C	5180	within the band	PASS
	60°C	5180	within the band	PASS
	- 10°C	5240	within the band	PASS
	0°C	5240	within the band	PASS
	10°C	5240	within the band	PASS
	20°C	5240	within the band	PASS
	30°C	5240	within the band	PASS
	40°C	5240	within the band	PASS
	50°C	5240	within the band	PASS
	60°C	5240	within the band	PASS



Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac20	- 10°C	5180	within the band	PASS
	0°C	5180	within the band	PASS
	10°C	5180	within the band	PASS
	20°C	5180	within the band	PASS
	30°C	5180	within the band	PASS
	40°C	5180	within the band	PASS
	50°C	5180	within the band	PASS
	60°C	5180	within the band	PASS
	- 10°C	5240	within the band	PASS
	0°C	5240	within the band	PASS
	10°C	5240	within the band	PASS
	20°C	5240	within the band	PASS
	30°C	5240	within the band	PASS
	40°C	5240	within the band	PASS
	50°C	5240	within the band	PASS
	60°C	5240	within the band	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n40	- 10°C	5190	within the band	PASS
	0°C	5190	within the band	PASS
	10°C	5190	within the band	PASS
	20°C	5190	within the band	PASS
	30°C	5190	within the band	PASS
	40°C	5190	within the band	PASS
	50°C	5190	within the band	PASS
	60°C	5190	within the band	PASS
	- 10°C	5230	within the band	PASS
	0°C	5230	within the band	PASS
	10°C	5230	within the band	PASS
	20°C	5230	within the band	PASS
	30°C	5230	within the band	PASS
	40°C	5230	within the band	PASS
	50°C	5230	within the band	PASS
	60°C	5230	within the band	PASS



Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac40	- 10°C	5190	within the band	PASS
	0°C	5190	within the band	PASS
	10°C	5190	within the band	PASS
	20°C	5190	within the band	PASS
	30°C	5190	within the band	PASS
	40°C	5190	within the band	PASS
	50°C	5190	within the band	PASS
	60°C	5190	within the band	PASS
	- 10°C	5230	within the band	PASS
	0°C	5230	within the band	PASS
	10°C	5230	within the band	PASS
	20°C	5230	within the band	PASS
	30°C	5230	within the band	PASS
	40°C	5230	within the band	PASS
	50°C	5230	within the band	PASS
	60°C	5230	within the band	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac80	- 10°C	5210	within the band	PASS
	0°C	5210	within the band	PASS
	10°C	5210	within the band	PASS
	20°C	5210	within the band	PASS
	30°C	5210	within the band	PASS
	40°C	5210	within the band	PASS
	50°C	5210	within the band	PASS
	60°C	5210	within the band	PASS



## 14. FCC LINE CONDUCTED EMISSION TEST

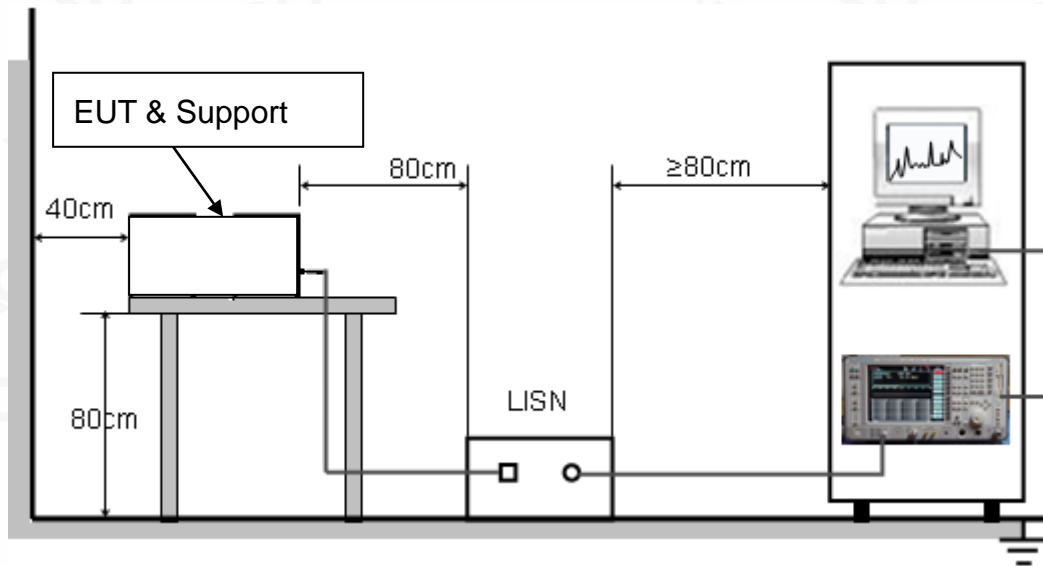
### 14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

### 14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



#### 14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

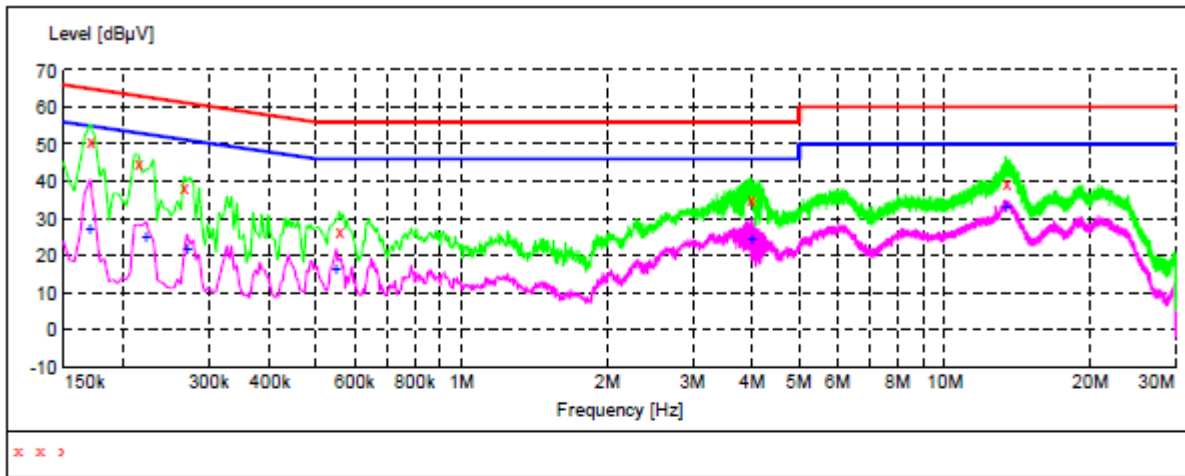
#### 14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less  $-2\text{dB}$  to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



**14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST**

**LINE CONDUCTED EMISSION TEST-L**



**MEASUREMENT RESULT**

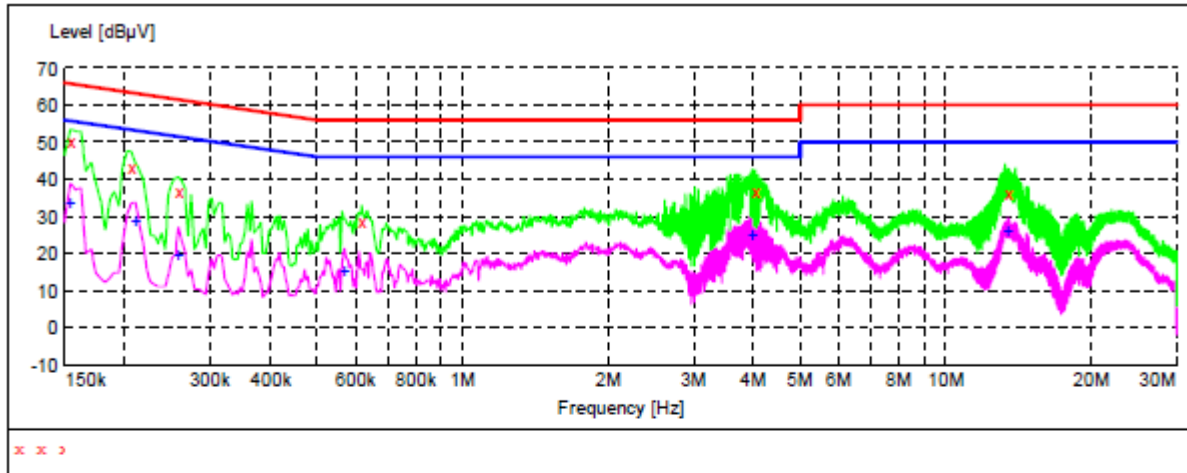
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.170000	51.00	10.3	65	14.0	QP	L1
0.214000	45.00	10.3	63	18.0	QP	L1
0.266000	38.50	10.2	61	22.7	QP	L1
0.558000	26.60	10.9	56	29.4	QP	L1
3.970000	35.20	11.1	56	20.8	QP	L1
13.406000	39.60	11.2	60	20.4	QP	L1

**MEASUREMENT RESULT**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.170000	27.60	10.3	55	27.4	AV	L1
0.222000	25.70	10.3	53	27.0	AV	L1
0.270000	22.40	10.2	51	28.7	AV	L1
0.550000	17.00	11.0	46	29.0	AV	L1
3.986000	25.00	11.1	46	21.0	AV	L1
13.406000	33.50	11.2	50	16.5	AV	L1



LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT

Frequency MHZ	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.154000	50.40	10.3	66	15.4	QP	N
0.206000	43.50	10.3	63	19.9	QP	N
0.258000	36.70	10.2	62	24.8	QP	N
0.618000	28.70	10.7	56	27.3	QP	N
4.034000	36.80	11.1	56	19.2	QP	N
13.418000	36.40	11.2	60	23.6	QP	N

MEASUREMENT RESULT

Frequency MHZ	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.154000	34.00	10.3	56	21.8	AV	N
0.210000	29.20	10.3	53	24.0	AV	N
0.258000	20.20	10.2	52	31.3	AV	N
0.570000	15.50	10.9	46	30.5	AV	N
3.982000	25.30	11.1	46	20.7	AV	N
13.418000	26.70	11.2	50	23.3	AV	N

RESULT: PASS



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

### APPENDIX A: PHOTOGRAPHS OF TEST SETUP

#### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

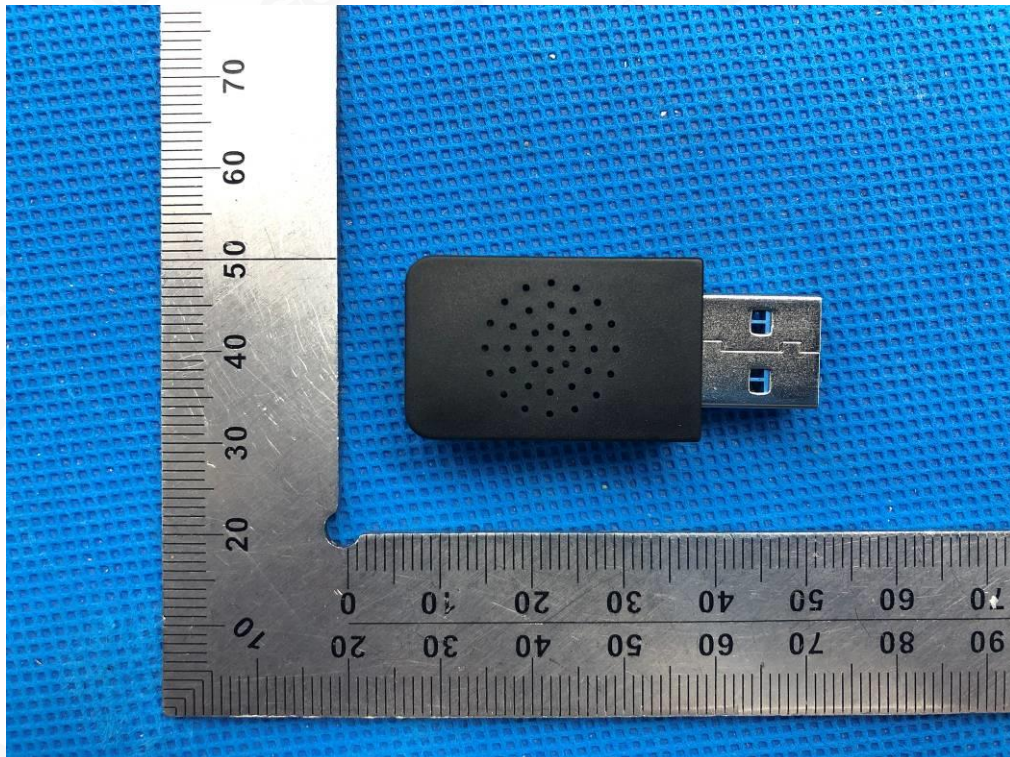


**APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



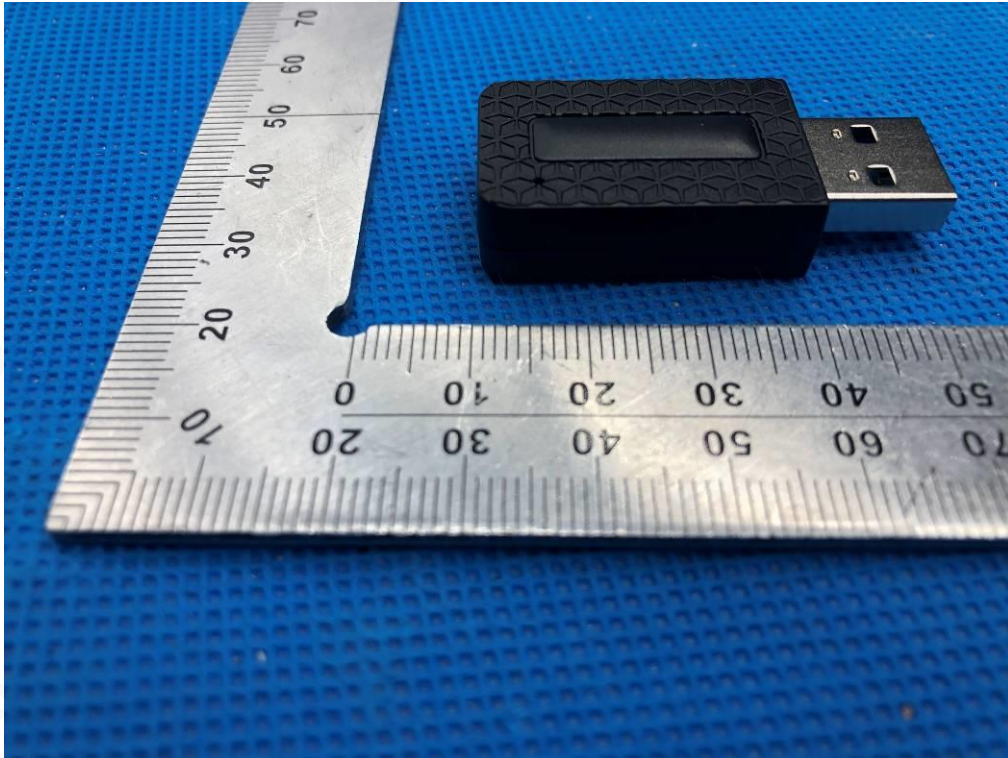
FRONT VIEW OF EUT



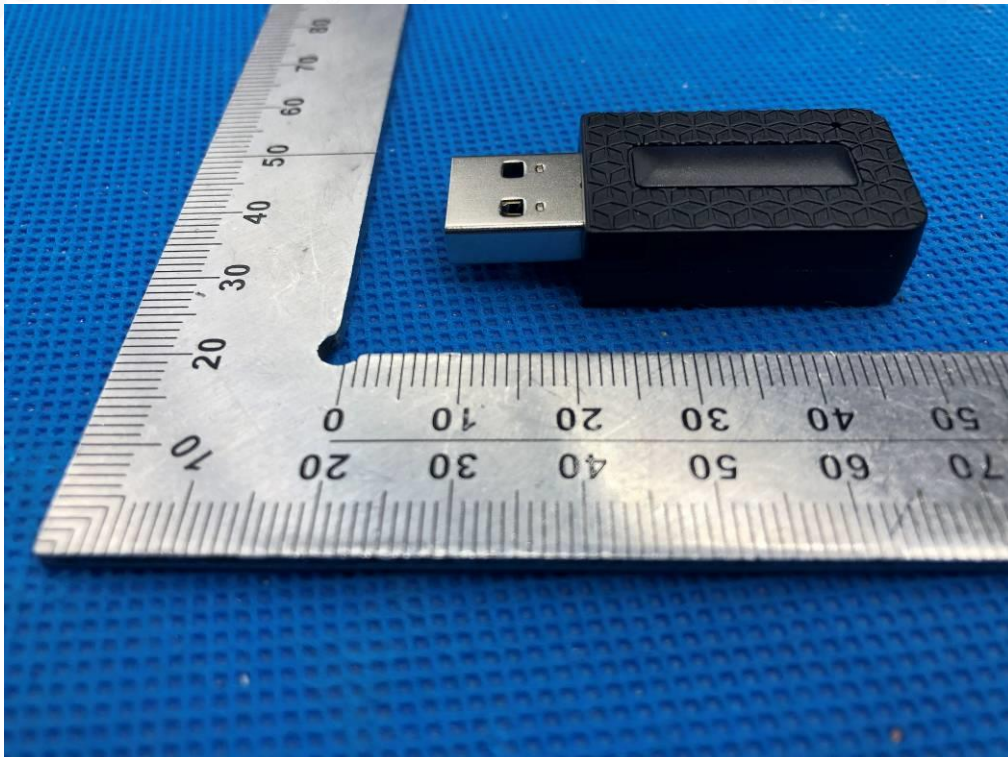
BACK VIEW OF EUT



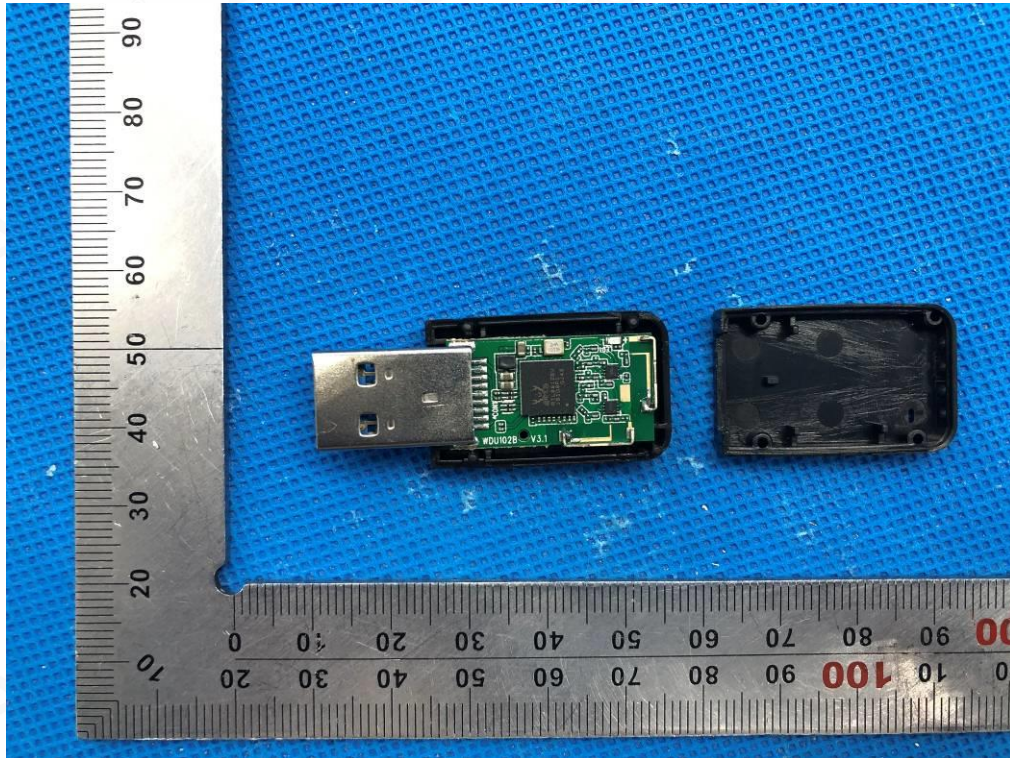
LEFT VIEW OF EUT



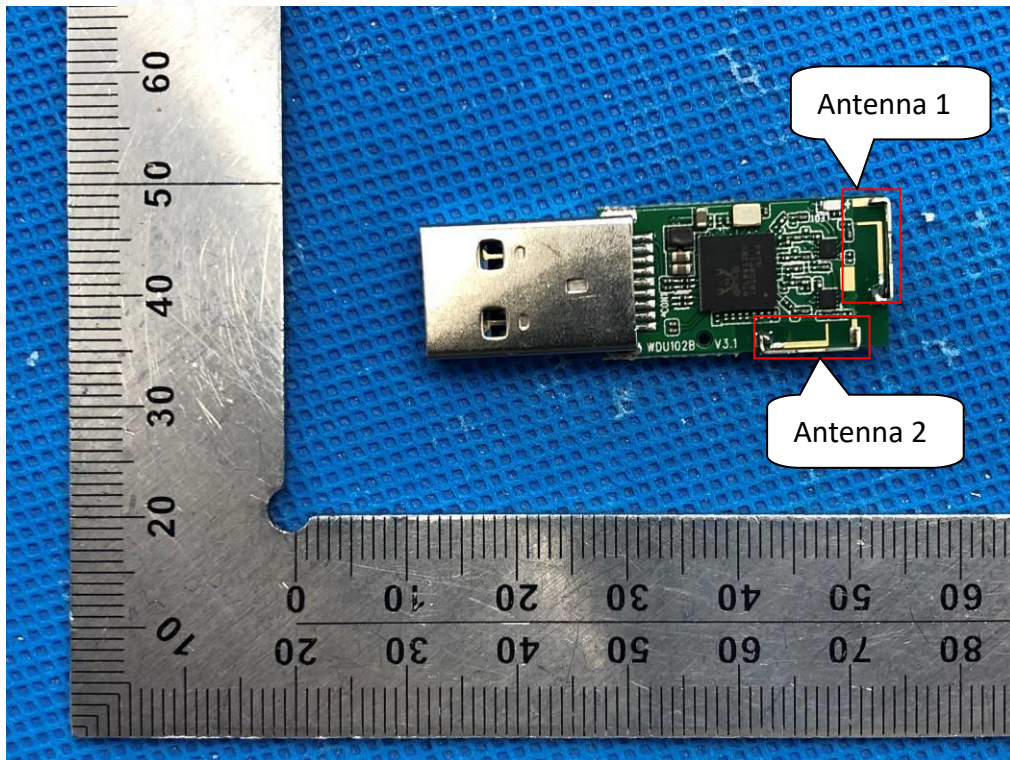
RIGHT VIEW OF EUT



OPEN VIEW OF EUT

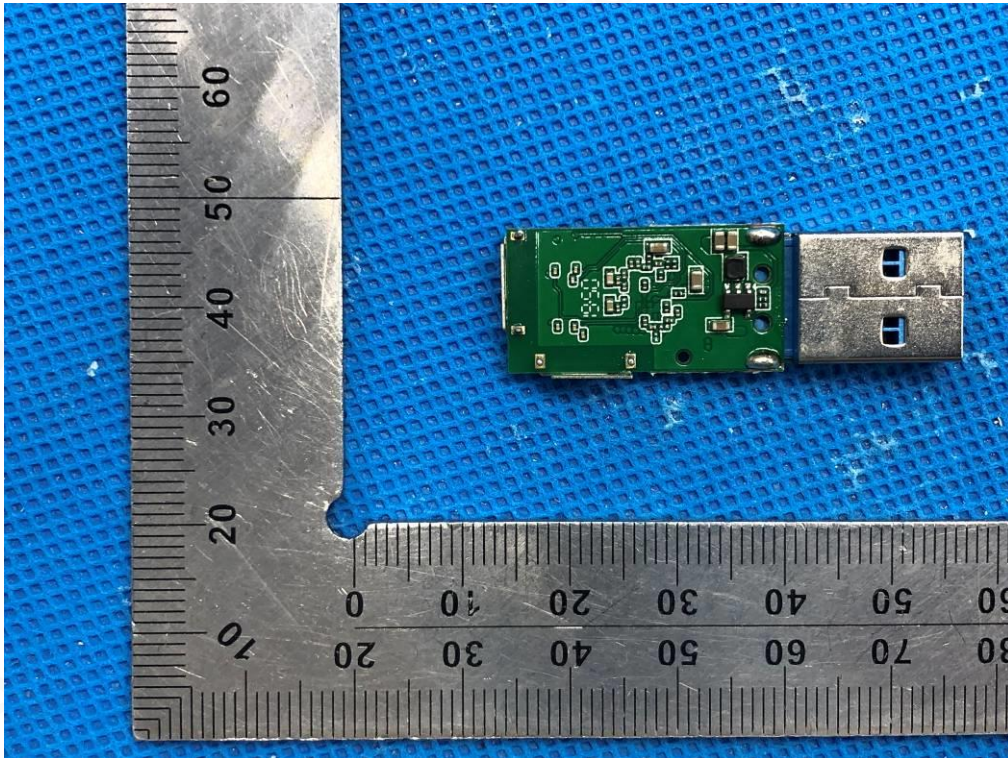


INTERNAL VIEW-1 OF EUT

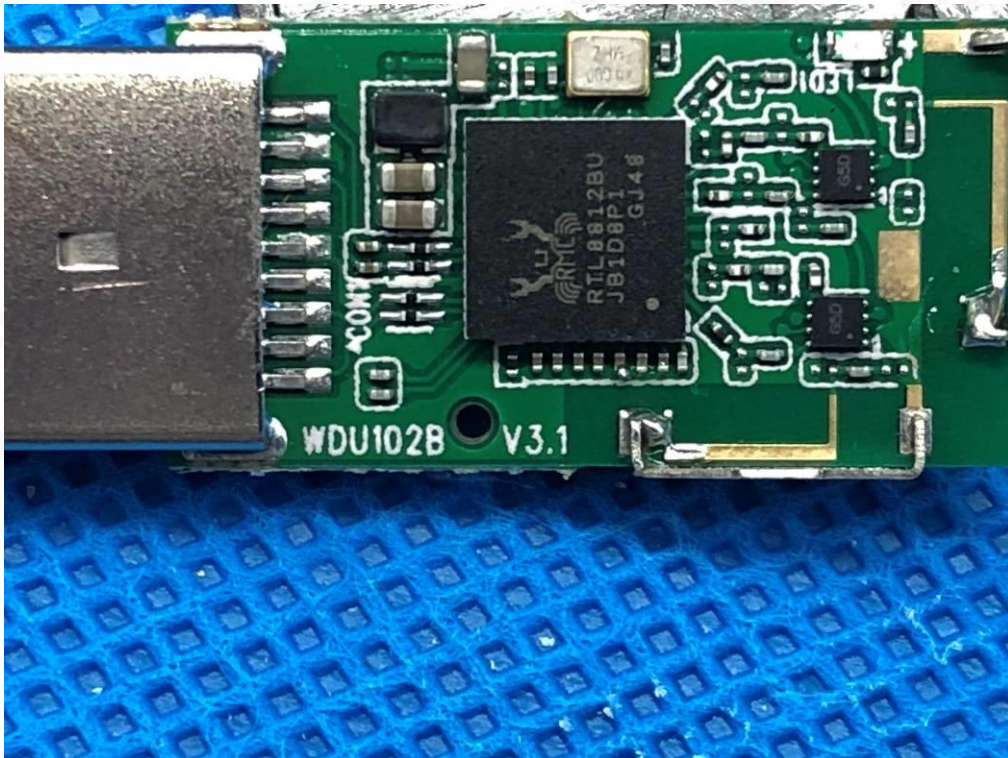




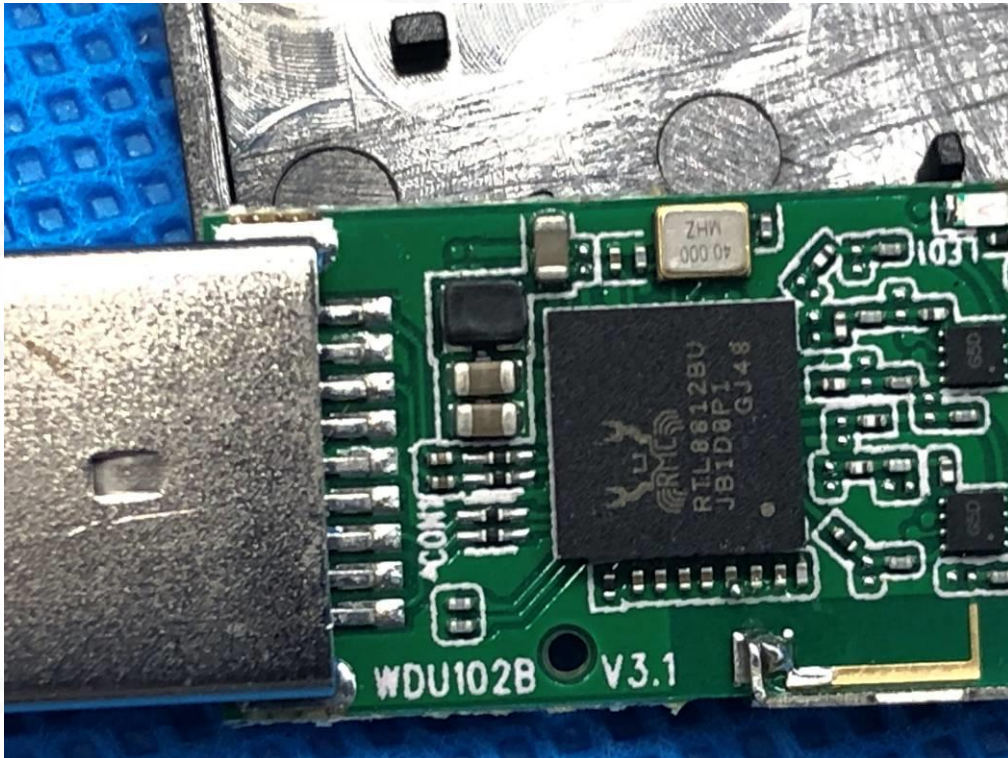
INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



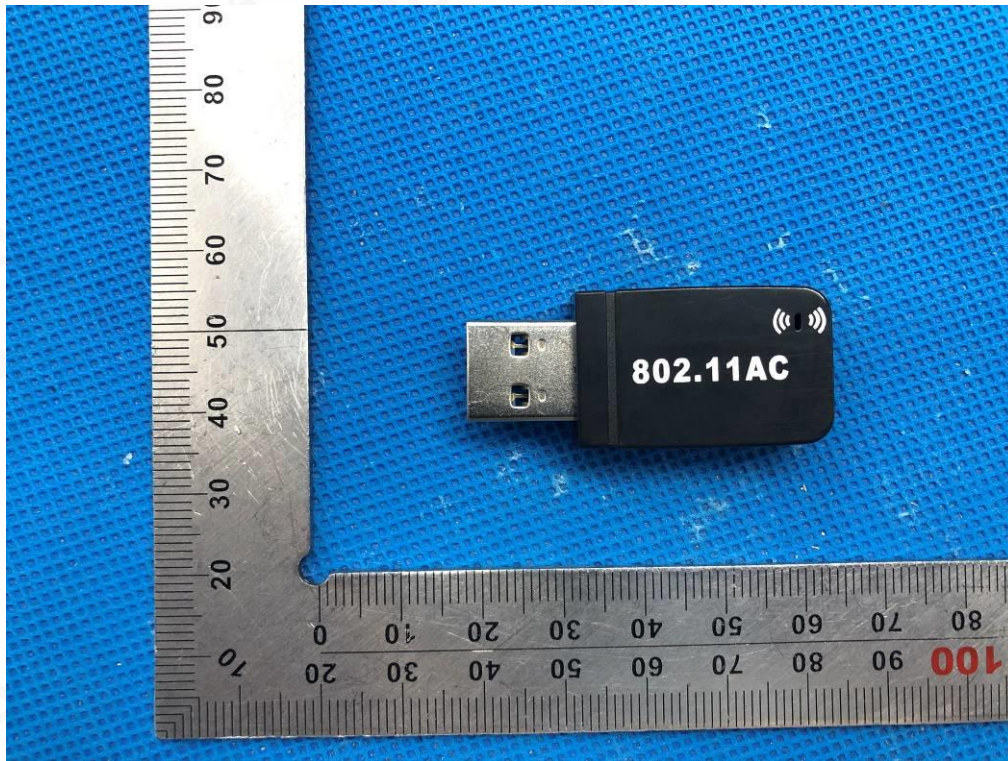
INTERNAL VIEW-4 OF EUT



TOP VIEW OF EUT-6B15



TOP VIEW OF EUT-6B13



----END OF REPORT----

