

FCC Test Report

Report No.: AGC10658200701FE03

FCC ID : 2ADRG-BRY7011
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Brydge 12.3 Pro +
BRAND NAME : BRYDGE
MODEL NAME : BRY701
APPLICANT : BRYDGE GLOBAL
DATE OF ISSUE : Jul 22, 2020
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 22, 2020	Valid	Initial release

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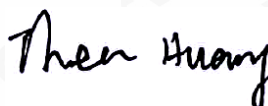
1. VERIFICATION OF CONFORMITY

Applicant	BRYDGE GLOBAL
Address	1912 Sidewinder Dr#104, Park City, Utah United States 84060
Manufacturer	BRYDGE TECHNOLOGIES LLC
Address	1912 Sidewinder Dr#104, Park City, UT 84060 U.S.A
Factory	DONGGUAN MAE TAY ELECTRONIC CO., LTD.
Address	Beihuanlu Industrial Area, Changping Town, Dongguan, Guangdong, 523560, P.R.C.
Product Designation	Brydge 12.3 Pro +
Brand Name	BRYDGE
Test Model	BRY701
Date of test	Jul. 07, 2020 to Jul. 22, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

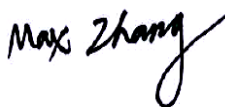
Prepared By



Thea Huang
Project Engineer

Jul. 22, 2020

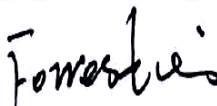
Reviewed By



Max Zhang
Reviewer

Jul. 22, 2020

Approved By



Forrest Lei
Authorized Officer

Jul. 22, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V5.0
Maximum field strength	89.93dBuV/m(AV)@3m
Modulation	BR ☐ GFSK, EDR ☐ π /4-DQPSK, ☐ 8DPSK BLE ☒ GFSK 1Mbps ☒ GFSK 2Mbps
Number of channels	40
Antenna Gain	1.87dBi
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)
Hardware Version	V1.1
Software Version	V01
Power Supply	DC 3.7V by battery
Note: The EUT doesn't support BR/EDR.	

2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

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3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, $U_c = \pm 3.1$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 4.0$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK (1Mbps)
2	Middle channel GFSK (1Mbps)
3	High channel GFSK (1Mbps)
4	Low channel GFSK (2Mbps)
5	Middle channel GFSK (2Mbps)
6	High channel GFSK (2Mbps)
Note: 1. Only the result of the worst case was recorded in the report, if no other cases. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.	

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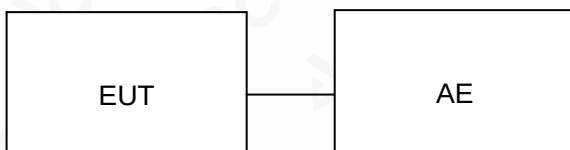
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No	ID or Specification	Remark
1	Brydge 12.3 Pro +	BRY701	2ADRG-BRY7011	EUT
2	Control Box	N/A	USB-TTL	AE
3	USB Cable	N/A	0.5m unshielded	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	N/A

Note: 1. N/A means is not applicable in this report.

2. The EUT is powered by battery.

3. The EUT can not use the BT function with charging.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00154520	Oct. 25, 2019	Oct. 26, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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7.2. 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 minimum resolution bandwidth of 1 MHz. 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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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/10Hz for Average

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

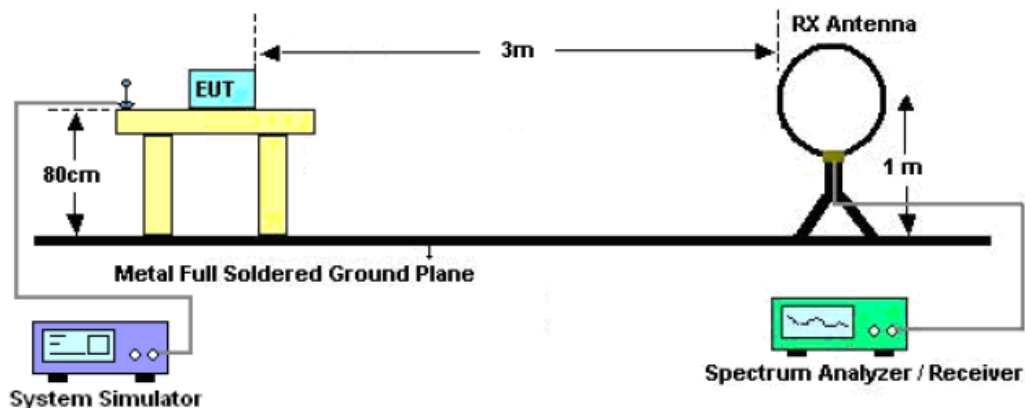
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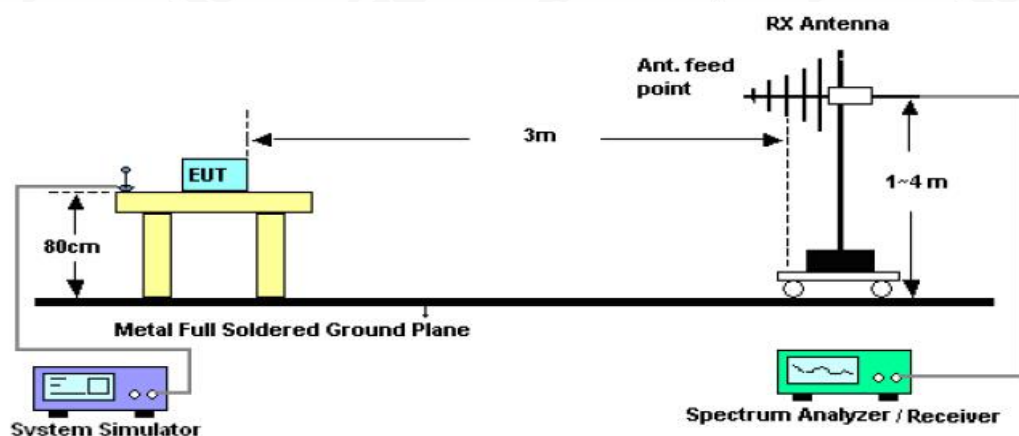


7.3. TEST SETUP

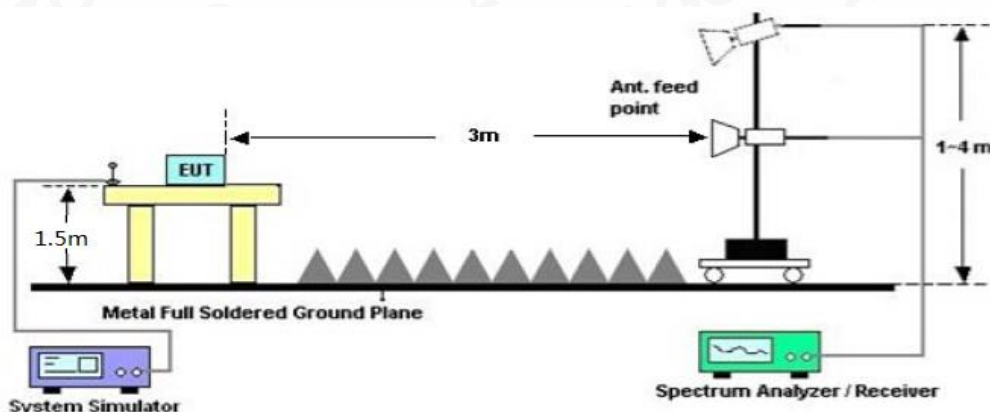
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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7.4. TEST RESULT

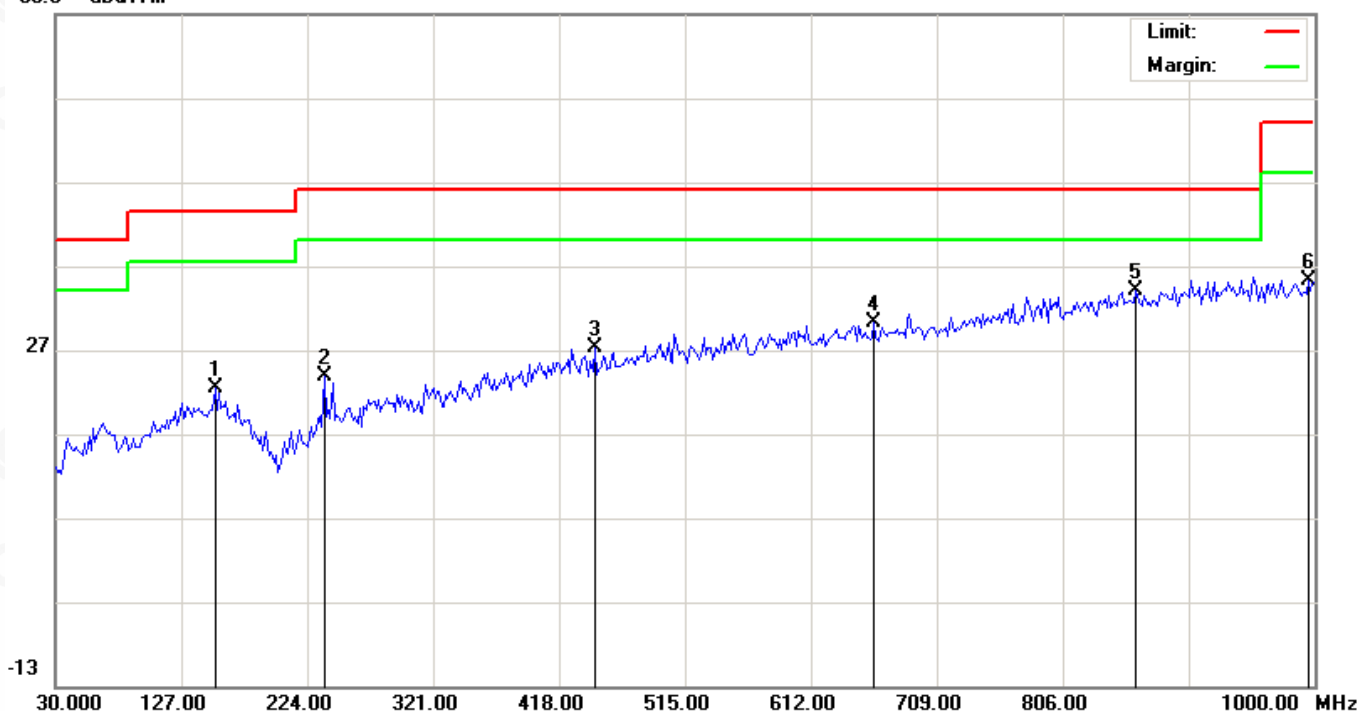
RADIATED EMISSION BELOW 30MHZ

Emissions are attenuated more than 20 dB below the permissible value.

RADIATED EMISSION 30MHZ- 1GHZ

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		152.8667	3.15	19.20	22.35	43.50	-21.15	peak
2		236.9333	5.64	18.14	23.78	46.00	-22.22	peak
3		445.4833	3.22	23.89	27.11	46.00	-18.89	peak
4		660.5000	2.54	27.68	30.22	46.00	-15.78	peak
5	*	862.5833	2.87	31.22	34.09	46.00	-11.91	peak
6		995.1500	2.75	32.52	35.27	54.00	-18.73	peak

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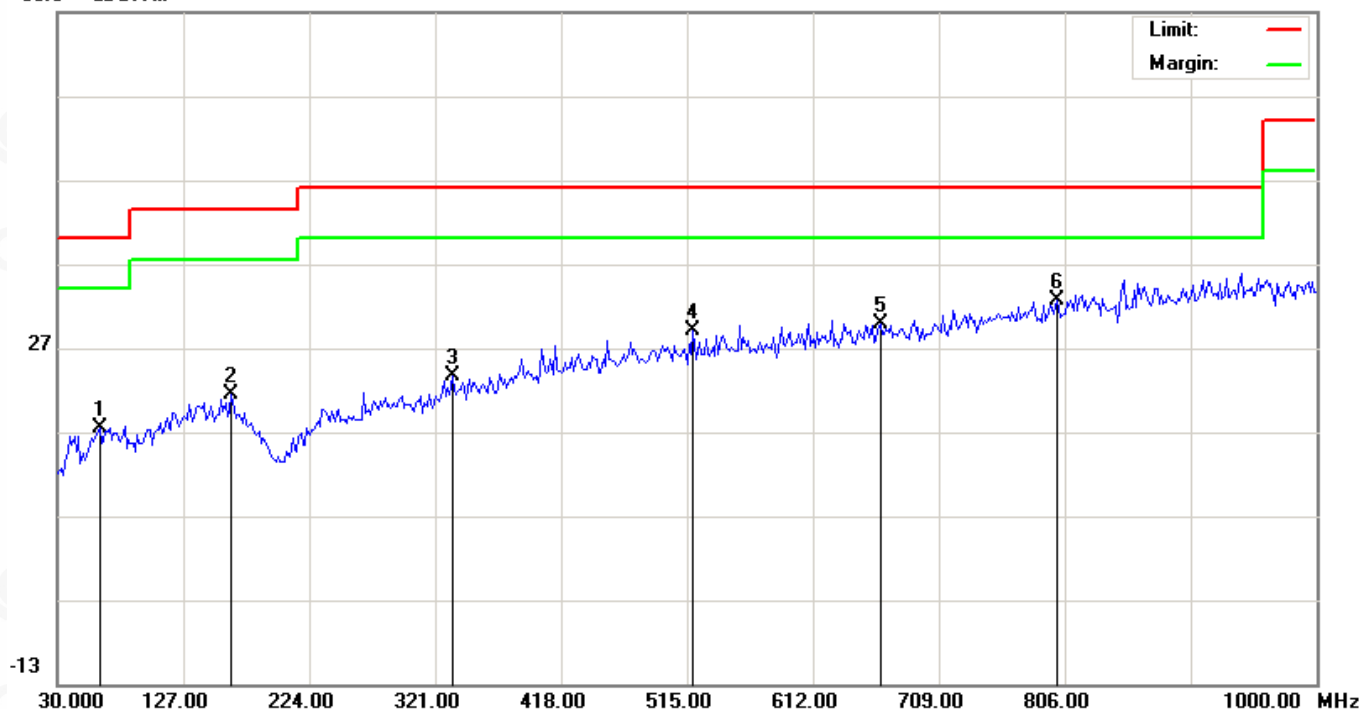
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EUT :	Brydge 12.3 Pro +	Model Name. :	BRY701
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Vertical

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		62.3333	1.33	16.16	17.49	40.00	-22.51	peak
2		164.1833	2.64	18.76	21.40	43.50	-22.10	peak
3		333.9333	3.02	20.66	23.68	46.00	-22.32	peak
4		519.8500	3.57	25.38	28.95	46.00	-17.05	peak
5		663.7333	2.06	27.71	29.77	46.00	-16.23	peak
6	*	799.5333	2.16	30.40	32.56	46.00	-13.44	peak

RESULT: PASS

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

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

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

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FIELD STRENGTH OF FUNDAMENTAL

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Modulation	GFSK -1M	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2402.000	108.06	-9.61	98.45	114.00	-15.55	peak
2402.000	99.53	-9.61	89.92	94.00	-4.08	AVG
2440.000	107.17	-9.61	97.56	114.00	-16.44	peak
2440.000	98.65	-9.61	89.04	94.00	-4.96	AVG
2480.000	106.00	-9.61	96.39	114.00	-17.61	peak
2480.000	98.05	-9.61	88.44	94.00	-5.56	AVG

Remark:

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

EUT	Brydge 12.3 Pro +	Model Name	Brydge 12.3 Pro +
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Modulation	GFSK -1M	Polarization	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2402.000	106.33	-9.61	96.72	114.00	-17.28	peak
2402.000	98.12	-9.61	88.51	94.00	-5.49	AVG
2440.000	105.73	-9.61	96.12	114.00	-17.88	peak
2440.000	97.64	-9.61	88.03	94.00	-5.97	AVG
2480.000	104.89	-9.61	95.28	114.00	-18.72	peak
2480.000	97.10	-9.61	87.49	94.00	-6.51	AVG

Remark:

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

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EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Modulation	GFSK -2M	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2402.000	105.94	-9.61	96.33	114.00	-17.67	peak
2402.000	98.13	-9.61	88.52	94.00	-5.48	AVG
2440.000	105.73	-9.61	96.12	114.00	-17.88	peak
2440.000	97.41	-9.61	87.80	94.00	-6.20	AVG
2480.000	104.83	-9.61	95.22	114.00	-18.78	peak
2480.000	96.02	-9.61	86.41	94.00	-7.59	AVG

Remark:

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

EUT	Brydge 12.3 Pro +	Model Name	Brydge 12.3 Pro +
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Modulation	GFSK -2M	Polarization	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2402.000	106.59	-9.61	96.98	114.00	-17.02	peak
2402.000	98.66	-9.61	89.05	94.00	-4.95	AVG
2440.000	106.78	-9.61	97.17	114.00	-16.83	peak
2440.000	98.90	-9.61	89.29	94.00	-4.71	AVG
2480.000	107.12	-9.61	97.51	114.00	-16.49	peak
2480.000	99.54	-9.61	89.93	94.00	-4.07	AVG

Remark:

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

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RADIATED EMISSION ABOVE 1GHZ

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	46.28	3.76	50.04	74.00	-23.96	peak
4804.000	42.97	3.76	46.73	54.00	-7.27	AVG
7206.000	45.22	8.17	53.39	74.00	-20.61	peak
7206.000	40.84	8.17	49.01	54.00	-4.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	47.35	3.76	51.11	74.00	-22.89	peak
4804.000	44.98	3.76	48.74	54.00	-5.26	AVG
7206.000	46.02	8.17	54.19	74.00	-19.81	peak
7206.000	41.41	8.17	49.58	54.00	-4.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	44.73	3.78	48.51	74.00	-25.49	peak
4880.000	42.94	3.78	46.72	54.00	-7.28	AVG
7320.000	43.64	8.23	51.87	74.00	-22.13	peak
7320.000	40.21	8.23	48.44	54.00	-5.56	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	45.81	3.78	49.59	74.00	-24.41	peak
4880.000	43.67	3.78	47.45	54.00	-6.55	AVG
7320.000	44.35	8.23	52.58	74.00	-21.42	peak
7320.000	40.88	8.23	49.11	54.00	-4.89	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	45.61	3.81	49.42	74.00	-24.58	peak
4960.000	43.58	3.81	47.39	54.00	-6.61	AVG
7440.000	45.04	8.27	53.31	74.00	-20.69	peak
7440.000	40.95	8.27	49.22	54.00	-4.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Brydge 12.3 Pro +	Model Name. :	BRY701
Temperature	20 °C	Relative Humidity :	48%
Pressure	1010 hPa	Test Voltage :	DC 3.7V
Test Mode	Mode 3	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.29	3.81	50.10	74.00	-23.90	peak
4960.000	42.51	3.81	46.32	54.00	-7.68	AVG
7440.000	44.17	8.27	52.44	74.00	-21.56	peak
7440.000	39.86	8.27	48.13	54.00	-5.87	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: Other emissions are attenuated more than 20 dB below the permissible value. No recording in the test report.

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

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

The GFSK (1Mbps) modulation was the worst case and only the data of worst recorded in this report

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8. BAND EDGE EMISSION

8.1 TEST LIMIT

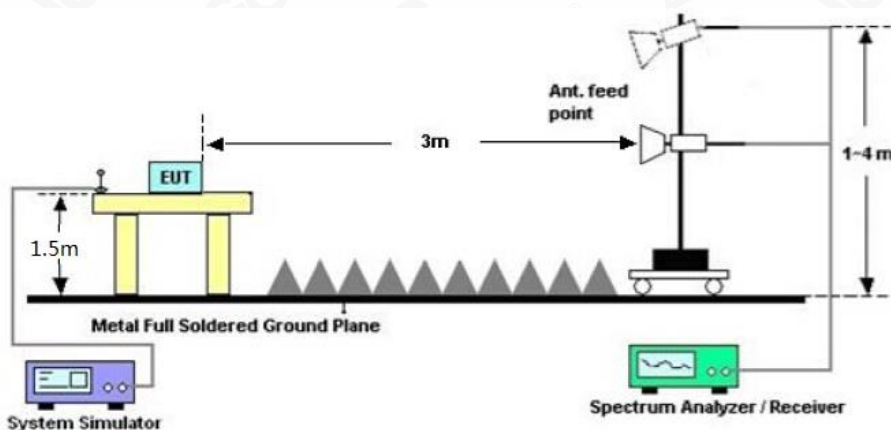
Frequency Band	Limit of the Field Strength (dB μ V/m)	
	Peak	Average
$f \leq 2390\text{MHz}$	74	54
$f \geq 2483.5\text{MHz}$	74	54

8.2. 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 7.2.

8.3 TEST SETUP

RADIATED EMISSION TEST SETUP



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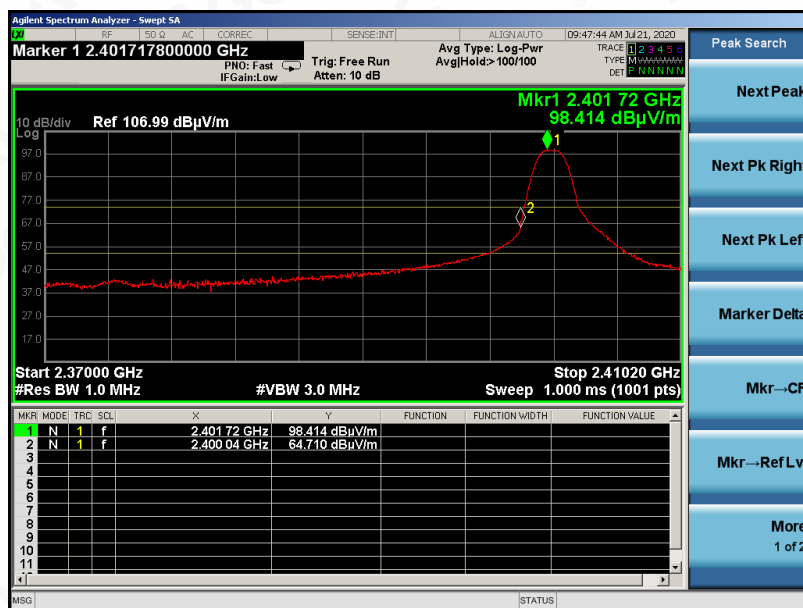


8.4 TEST RESULT

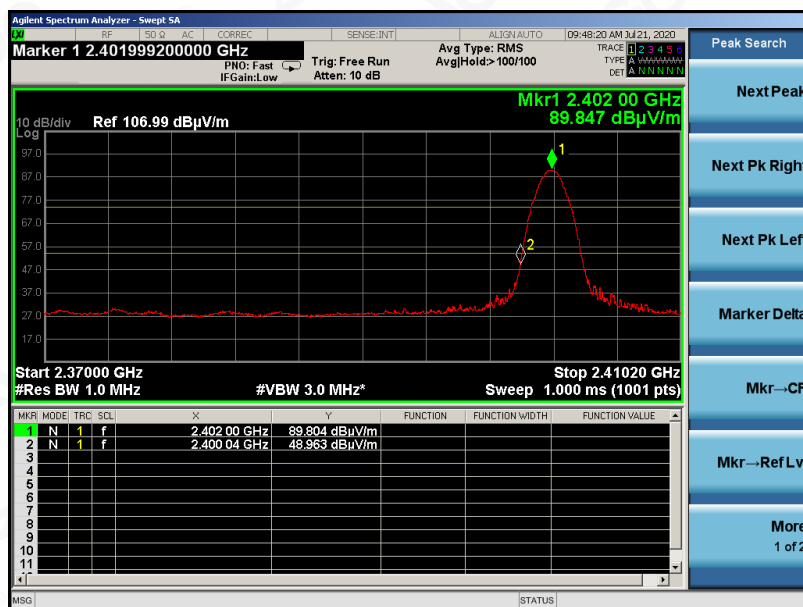
1M

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Peak Value



Average Value



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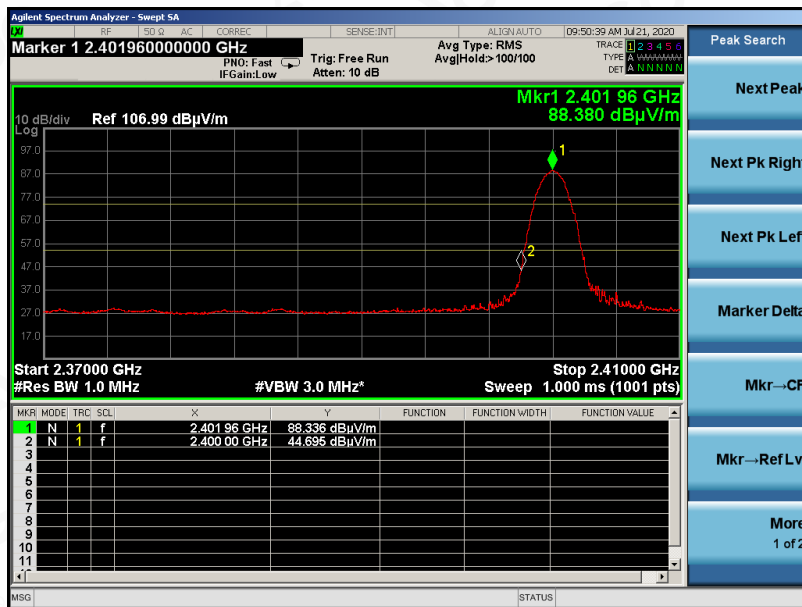


EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Peak Value



Average Value



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EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Peak Value



Average Value



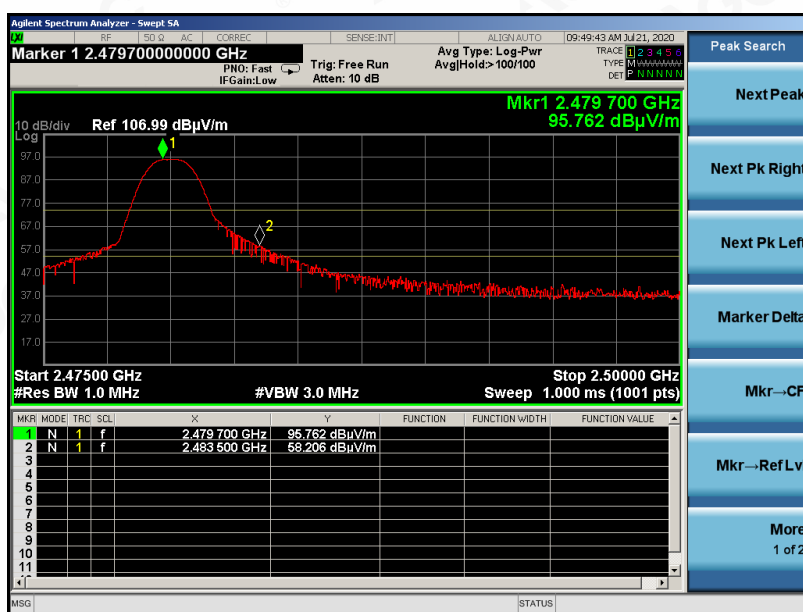
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EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical

Peak Value



Average Value



- 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(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.

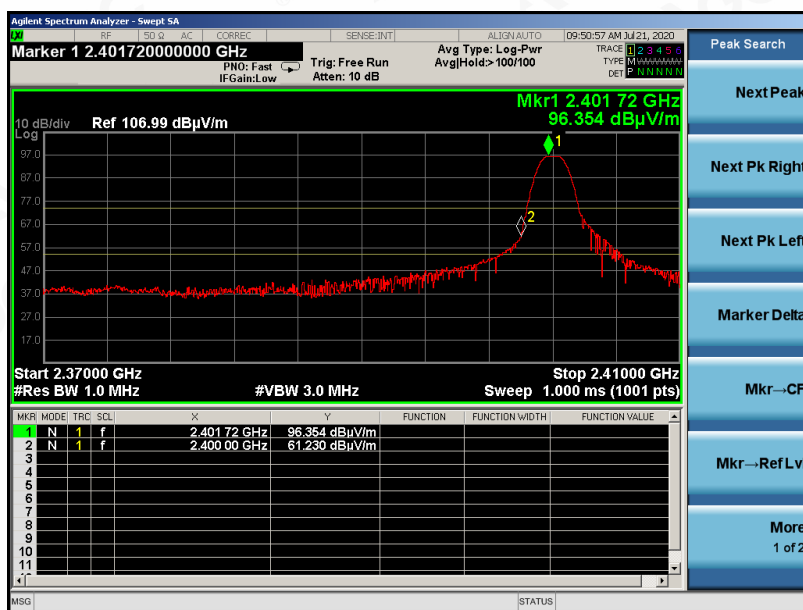
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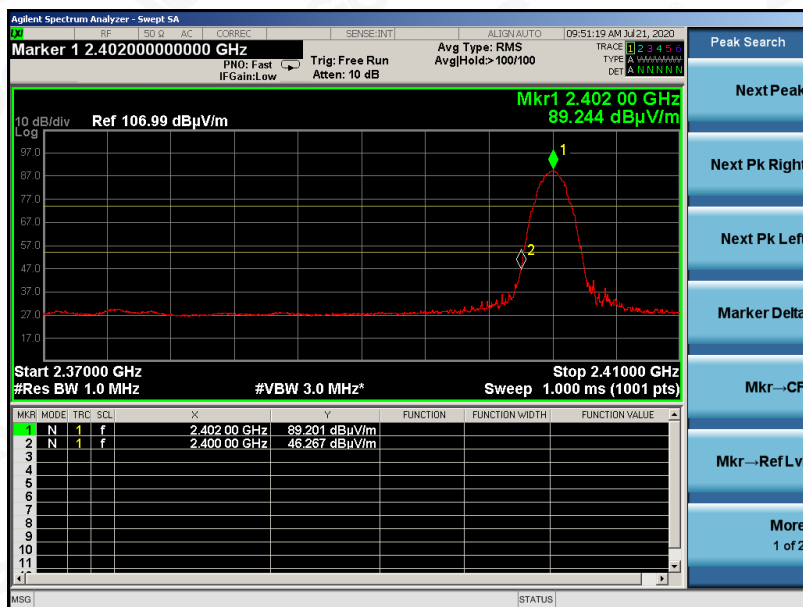
2M

EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 4	Polarization	Horizontal

Peak Value



Average Value



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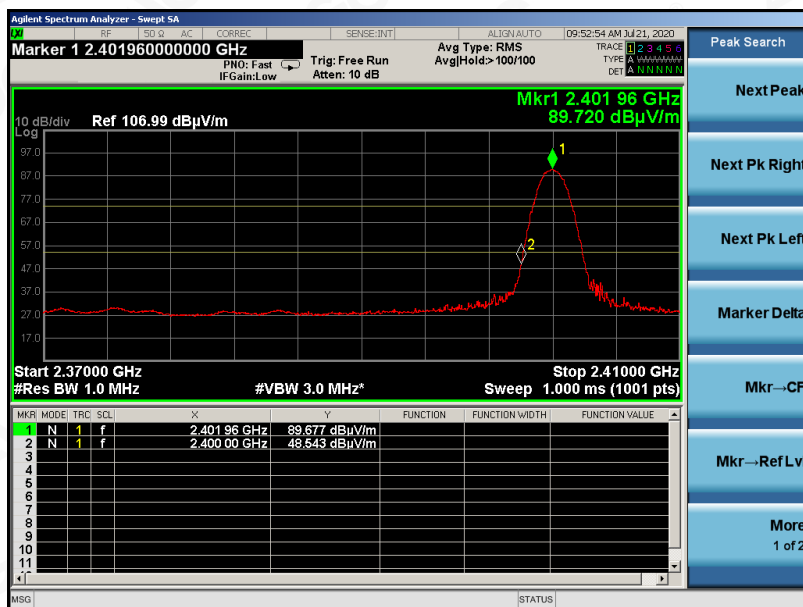


EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 4	Polarization	Vertical

Peak Value



Average Value



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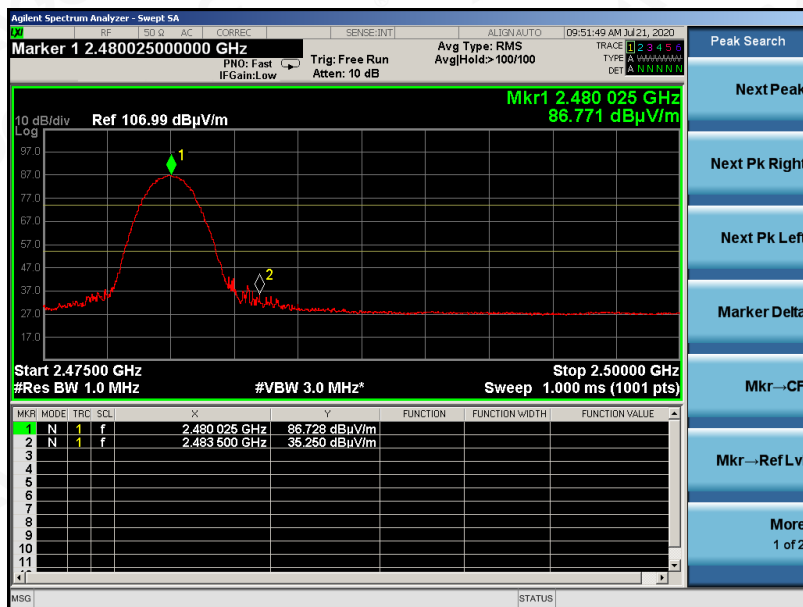


EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 6	Polarization	Horizontal

Peak Value



Average Value



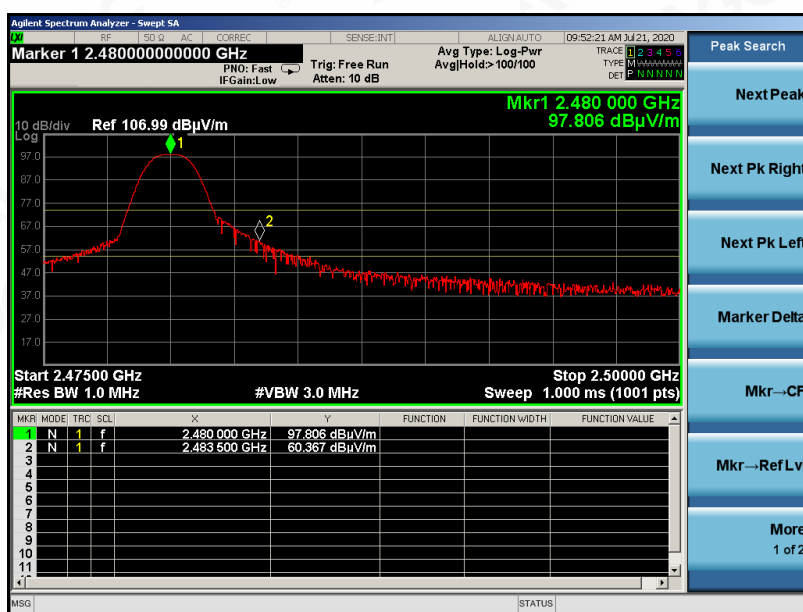
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EUT	Brydge 12.3 Pro +	Model Name	BRY701
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 6	Polarization	Vertical

Peak Value



Average Value



- 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(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.

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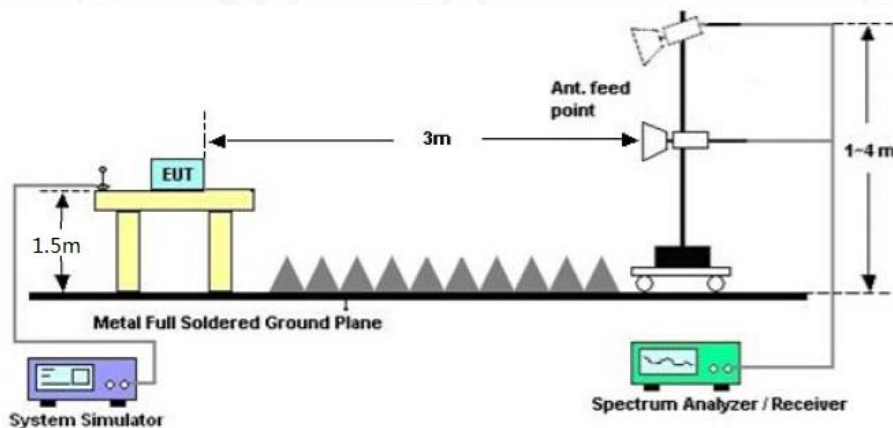


9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW $\geq 3 \times$ RBW.
3. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

1M

Test Data (MHz)		Criteria
Low Channel	1.105	PASS
Middle Channel	1.109	PASS
High Channel	1.108	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

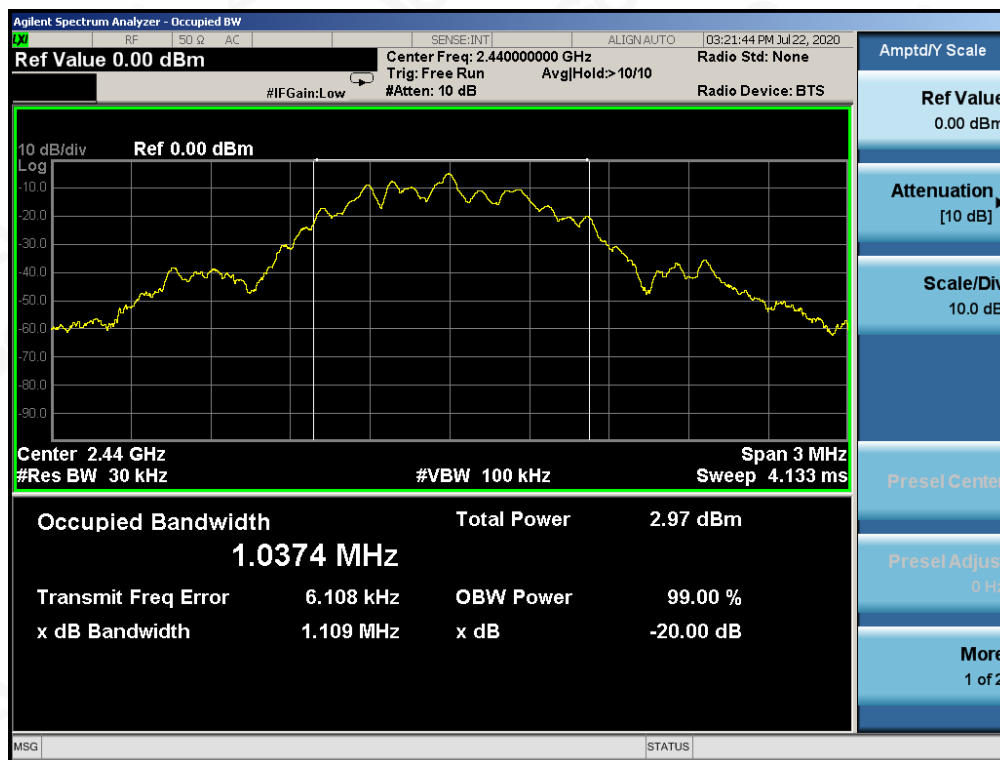


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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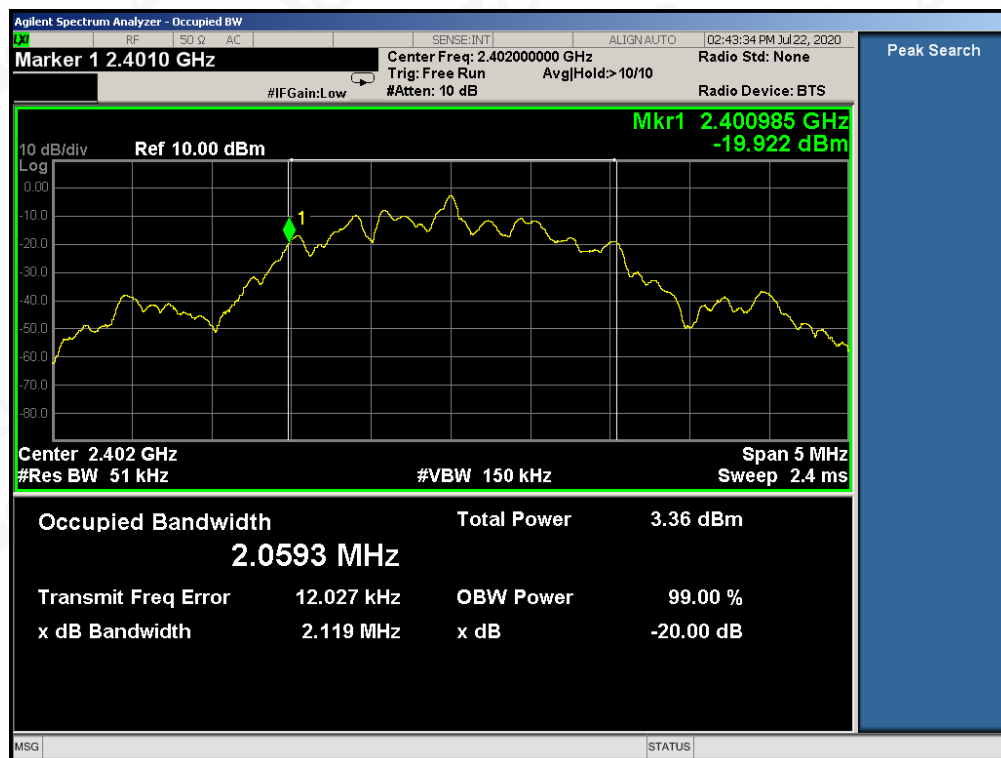
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2M

Test Data (MHz)		Criteria
Low Channel	2.119	PASS
Middle Channel	2.124	PASS
High Channel	2.123	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

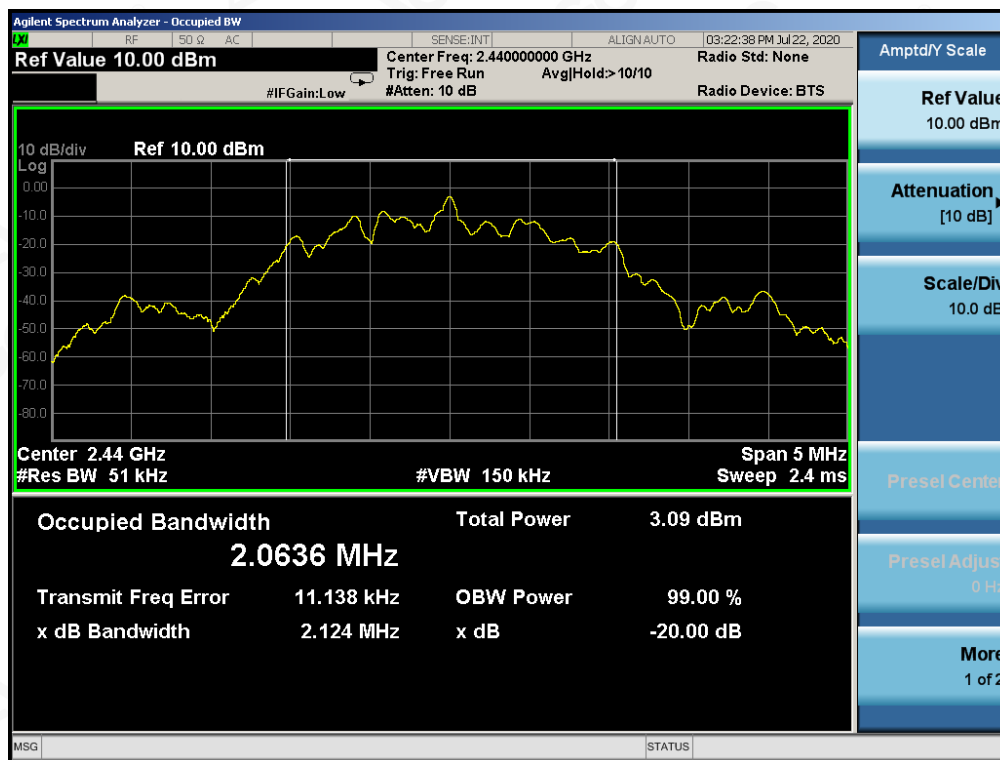


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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10. FCC LINE CONDUCTED EMISSION TEST

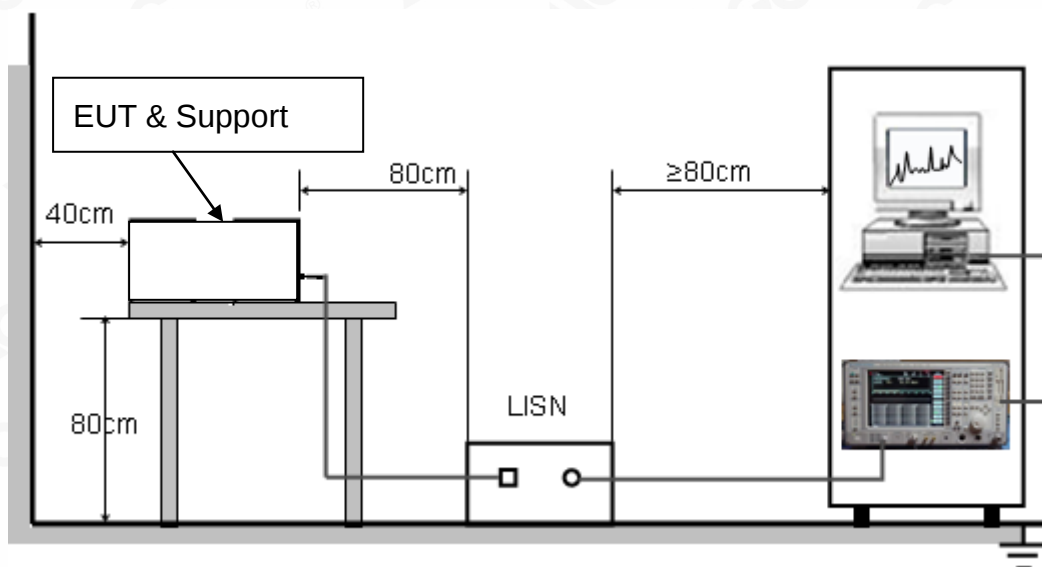
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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10.3. 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 AC120VV/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.

10.4. 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 -2dB 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.

10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The EUT is powered by battery. The EUT can not use the BT function with charging.



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 THE EUT

WHOLE VIEW OF EUT



TOP VIEW OF EUT



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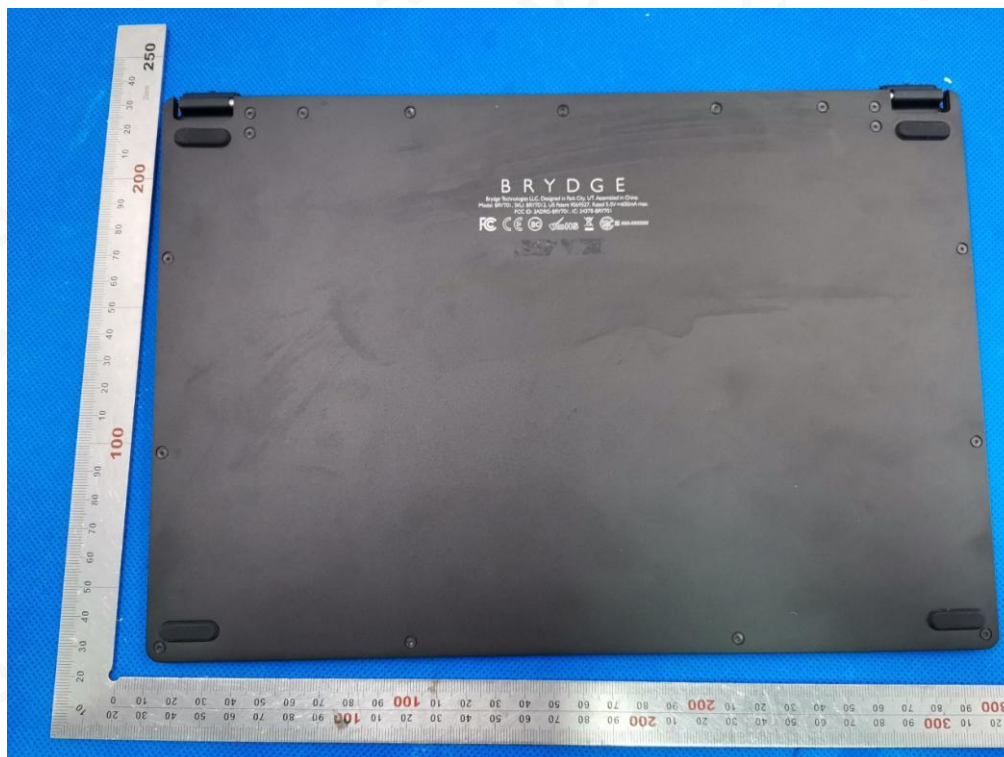
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT(PORT)

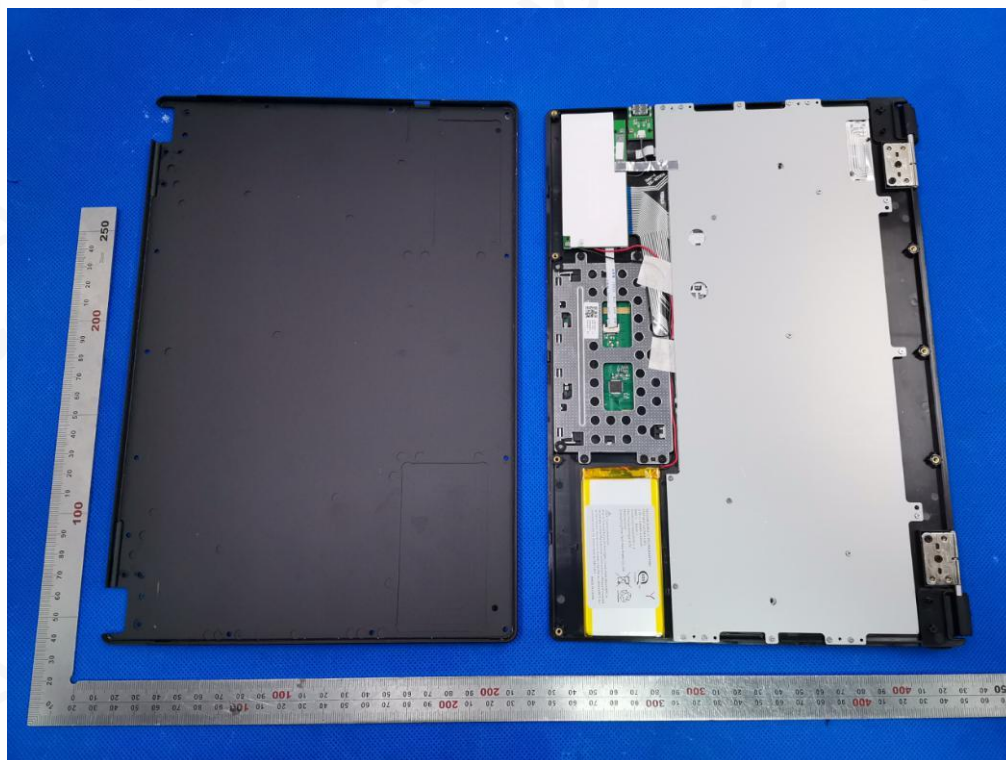


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OPEN VIEW OF EUT



VIEW OF BATTERY

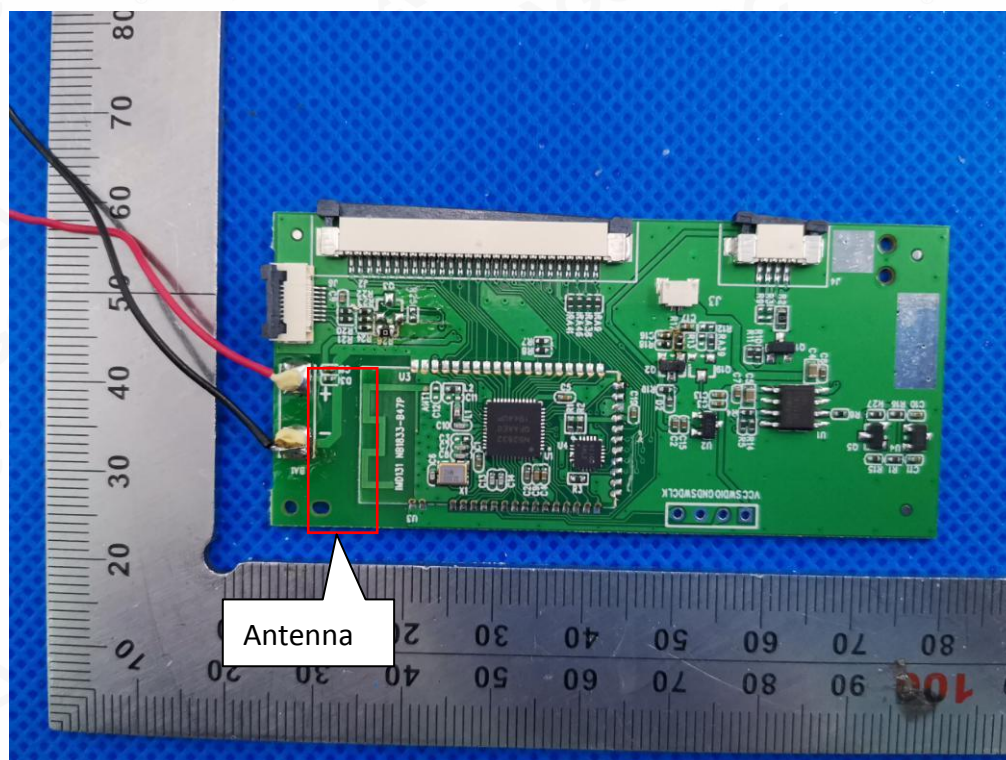


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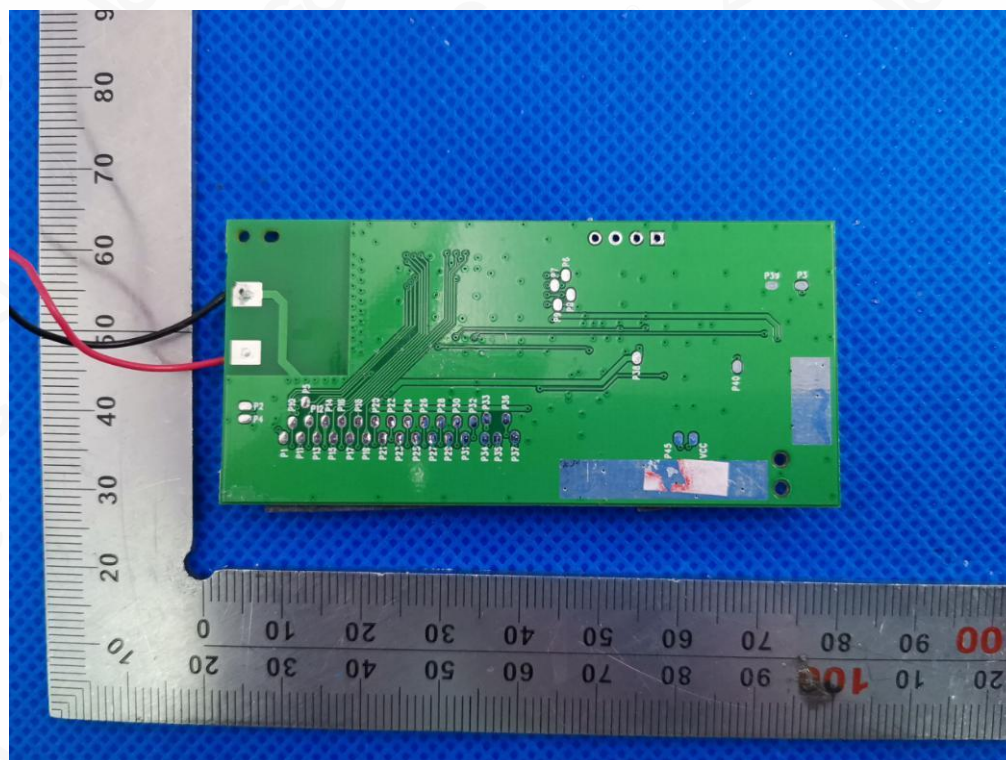
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

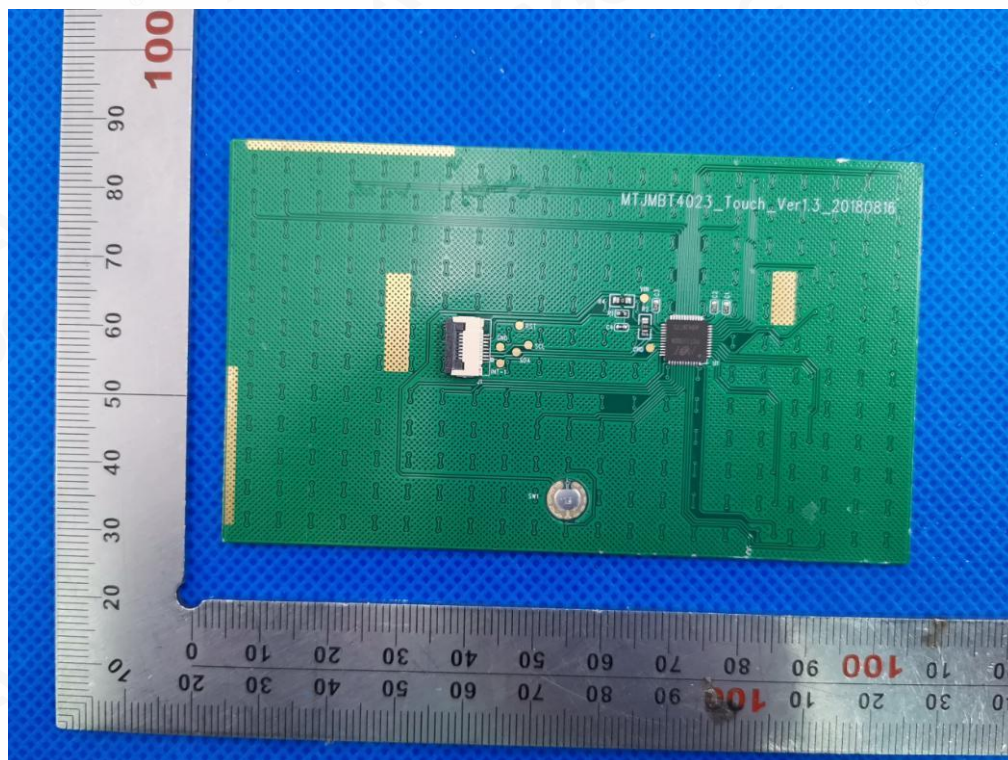


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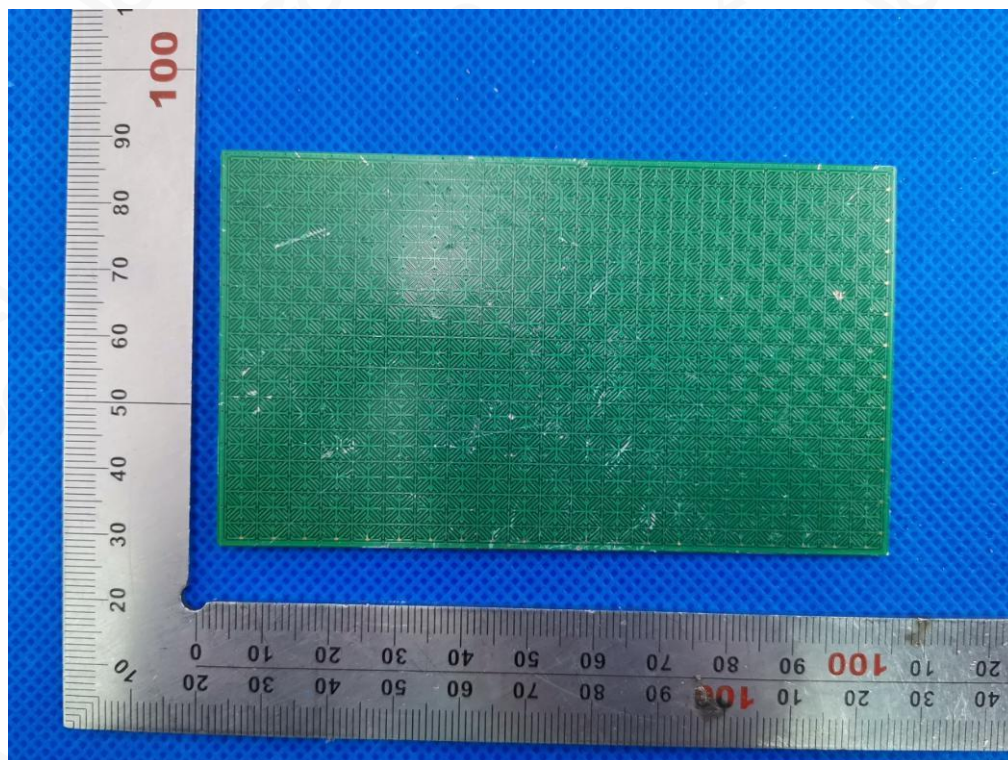
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

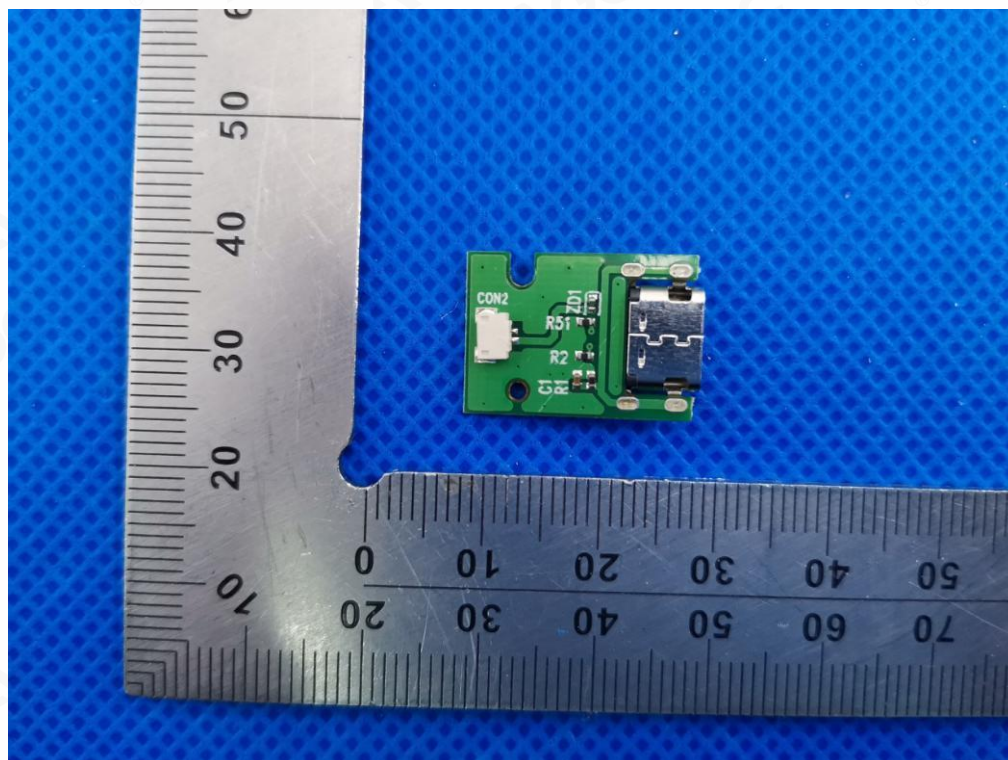


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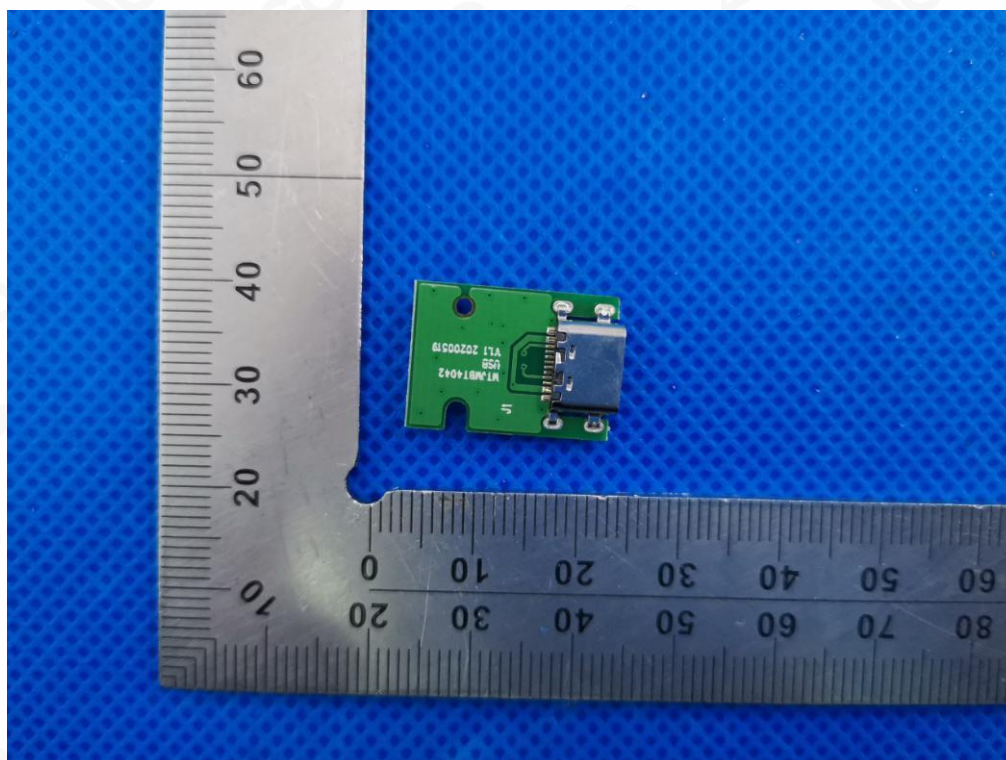
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INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6

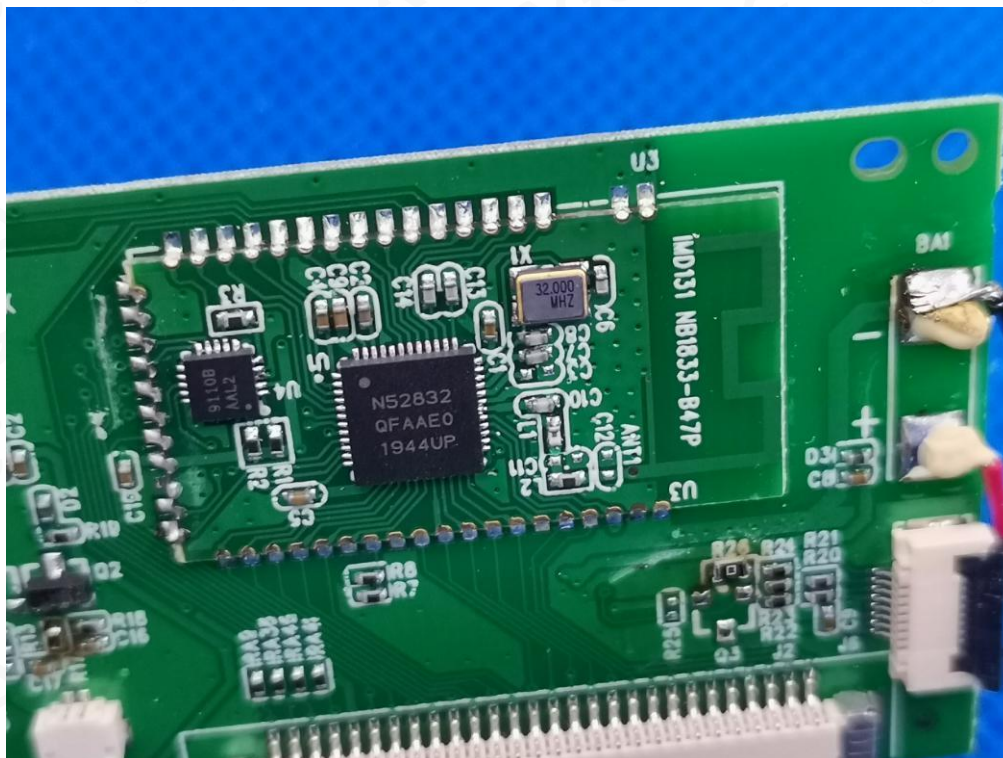


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INTERNAL VIEW OF EUT-7



-----END OF REPORT-----

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