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ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.2.4 (2020-09)

TEST REPORT

For

SHENZHEN TENDA TECHNOLOGY CO., LTD.

6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Tested Model: A18 Pro
Multiple Models: A18

Report Type: Original Report	Product Type: AC1200 Dual-Band Wi-Fi Range Extender
Report Number:	2402Z107018E-02
Report Date:	2024/12/20
Reviewed By:	Ivy Tang Project Engineer <i>Ivy Tang</i>
Approved By:	Rocky Xiao RF Supervisor
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) (No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China) Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402Z107018E-02	Original Report	2024/12/20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	AC1200 Dual-Band Wi-Fi Range Extender
EUT Model:	A18 Pro
Multiple Models:	A18
Model Difference:	Only the model names are different. Refer to Dos
Rated Input Voltage:	100-240Vac
Serial Number:	2V5L-3, 2V5M-3
EUT Received Date:	2024/11/28
EUT Received Status:	Good

Objective

This report is prepared on behalf of ***SHENZHEN TENDA TECHNOLOGY CO., LTD.*** in accordance with ETSI EN 301 489-1 V2.2.3 (2019-11) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility;

ETSI EN 301 489-17 V3.2.4 (2020-09) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility;

The objective is to determine the compliance of EUT with: ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-17 V3.2.4 (2020-09).

Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 489-1 V2.2.3 (2019-11) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

Declarations

The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test mode:

M1:Operating

Note: There are two configurations for this product, the difference between them is the power pins, one with EU type power pins, the other with BS type power pins, which do not affect the test result, thus, only one of them (EU power pins) was select for full test.

Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

Software "CMD &LAN TEST" was used.

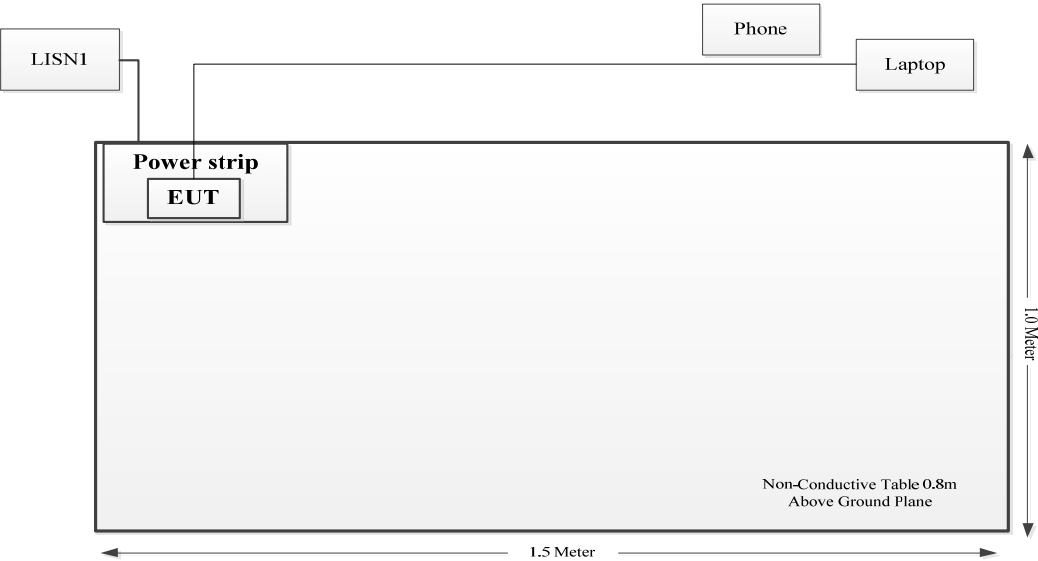
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	E450	PF-OMR8KV
Epik	Smartphone	K500	EMZBSP21103003
unknown	Power strip	CUG03	732766932286

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	Yes	No	5	EUT	Laptop

Block Diagram of Test Setup



Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission					
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A
TESEQ	ISN	T800	34379	2024/8/26	2025/8/25
Radiated emissions below 1GHz					
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A
Radiated emissions above 1GHz					
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26EA	2024/7/1	2025/6/30
Mini-Circuits	Preamplifier	ZVZ-183-S+	5696001267	2024/3/1	2025/2/28
Agilent	Spectrum Analyzer	E4440A	MY44303352	2024/10/22	2025/10/21
Audix	Test Software	E3	191218 V9	N/A	N/A
E-Microwave	Band Rejection Filter	OBSF-2400-2483.5-S	OE01601525	2024/2/21	2025/2/20
Sinoscite	Band Rejection Filter	BSF5150-5850MN	0899003	2024/2/21	2025/2/20
Flicker					
EVERFINE	Harmonic & Flicker Measurement System	HFM3000	P630850CD1411115	2024/9/5	2025/9/4
EVERFINE	Harmonic & Flicker Testing Power Source	HFS-4000	P624486CD1411122	2024/9/5	2025/9/4
CS					
HP	Signal Generator	8648A	3426A00831	2024/10/17	2025/10/16
AR	Power Amplifier	15A250	12934	N/A	N/A
Werlatone	Dual Directional Coupler	C5091-10	113192	N/A	N/A
NARDA	Coaxial Attenuator	769-6	02754	N/A	N/A
HP	Power Meter	EPM-441A	GB37481494	2024/9/5	2025/9/4
Agilent	Power sensor	8482A	US37296108	2024/9/5	2025/9/4
COM-POWER	CDN	M325E	521064	2024/8/26	2025/8/25
COM-POWER	CDN	T8E	581607	2023/8/18	2026/8/17
EFT & Surge & Dips					
EM TEST	Dips Auto Transformer	V4780	0811-10	2024/5/15	2025/5/14
EM TEST	Ultra Compact Generator	UCS 500N5	V1204111721	2024/5/15	2025/5/14

EM TEST	Capacitive Coupling Clamp	HFK	0908-20	2024/5/15	2025/5/14
EM TEST	CDN	CNV 504A	V0523100466	2024/5/15	2025/5/14
ESD					
TESEQ	ESD Generator	NSG 438	1019	2024/9/6	2025/9/5
RS					
AR	Antenna	ATL80M1G	0351400	N/A	N/A
AR	Antenna	ATT700M12G	0349410	N/A	N/A
HP	Signal Generator	8665B	3438a00584	2024/9/5	2025/9/4
AR	Power Amplifier	500W1000C	0353561	N/A	N/A
AR	Power Amplifier	60S1G6	0348711	N/A	N/A
PASTERNAK	Dual Directional Coupler	PE2239-30	1711	N/A	N/A
Agilent	Power Meter	E4419B	MY45103907	2024/10/18	2025/10/17
Agilent	E-Series Avg Power Sensor	E9301A	MY41497625	2024/10/18	2025/10/17
Agilent	E-Series Avg Power Sensor	E9301A	MY41497628	2024/9/5	2025/9/4

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Environmental Conditions

Test Item:	Conducted emission	Radiated emissions below 1GHz	Radiated emissions above 1GHz	EMS	Flicker
Temperature:	23.4℃	22.2℃	21.5℃	23.2~23.7℃	22.6℃
Relative Humidity:	62%	40%	36%	40~50%	50%
ATM Pressure:	101.8kPa	102.2kPa	101.5kPa	102.2kPa	102.2kPa
Tester:	Yolo Fan	Alan Xie	Jayce Wang	Yolo Fan	Yolo Fan
Test Date:	2024/12/11	2024/12/13	2024/12/9	2024/12/13	2024/12/13

SUMMARY OF TEST RESULTS

SN	Rule and Clause	Description of Test	Test Result
1	EN 301 489-1 Clause 8.2	Enclosure of ancillary equipment measured on a stand alone basis	Compliant
2	EN 301 489-1 Clause 8.3	DC power input/output ports	Not applicable
3	EN 301 489-1 Clause 8.4	AC mains power input/output ports	Compliant
4	EN 301 489-1 Clause 8.5	Harmonic current emissions (AC mains input port)	Not applicable
5	EN 301 489-1 Clause 8.6	Voltage fluctuations and flicker (AC mains input port)	Compliant
6	EN 301 489-1 Clause 8.7	Wired network ports	Compliant
7	EN 301 489-1 Clause 9.2	Radio frequency electromagnetic fields (80 MHz to 6 000 MHz)	Compliant
8	EN 301 489-1 Clause 9.3	Electrostatic discharges	Compliant
9	EN 301 489-1 Clause 9.4	Fast transients, common mode	Compliant
10	EN 301 489-1 Clause 9.5	Radio frequency, common mode	Compliant
11	EN 301 489-1 Clause 9.6	Transients and surges in the vehicular environment	Not applicable
12	EN 301 489-1 Clause 9.7	Voltage dips and short interruptions	Compliant
13	EN 301 489-1 Clause 9.8	Surges	Compliant

Note:

Not Applicable: Please refer to Applicability overview tables in sections 7.1 and 7.2 of EN 301 489-1 requirements for Radio and ancillary equipment.

1 - ENCLOSURE OF ANCILLARY EQUIPMENT MEASURED ON A STAND ALONE BASIS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 10m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 4.55 dB for Horizontal, 4.57 dB for Vertical; 200M~1GHz: 4.66 dB for Horizontal, 4.56 dB for Vertical; measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

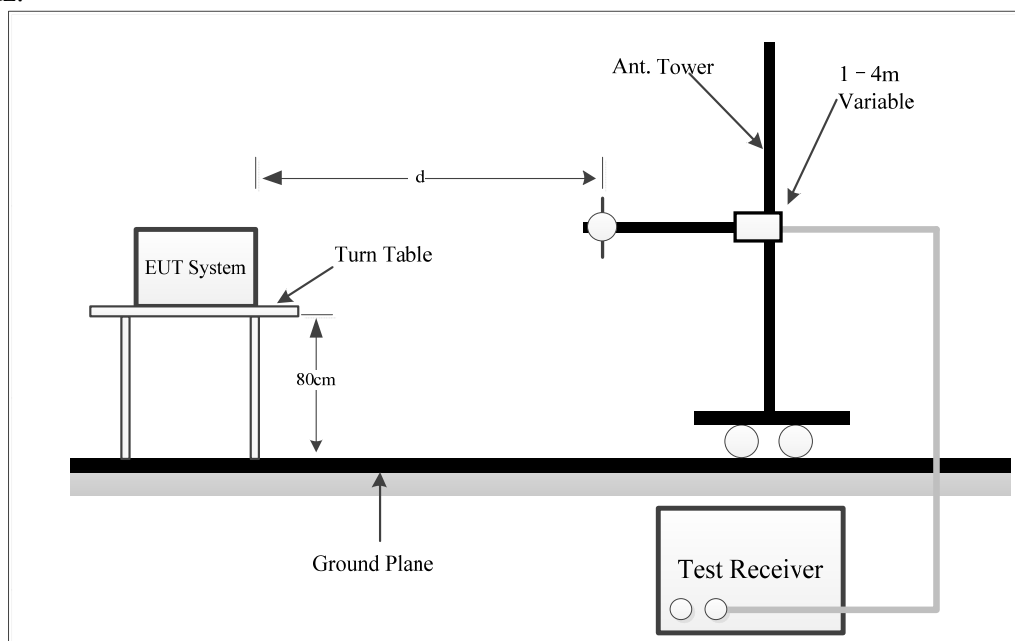
Table 1 - Values of U_{cispr}

Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC)(30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR)(1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR)(6 GHz to 18 GHz)	5.5 dB

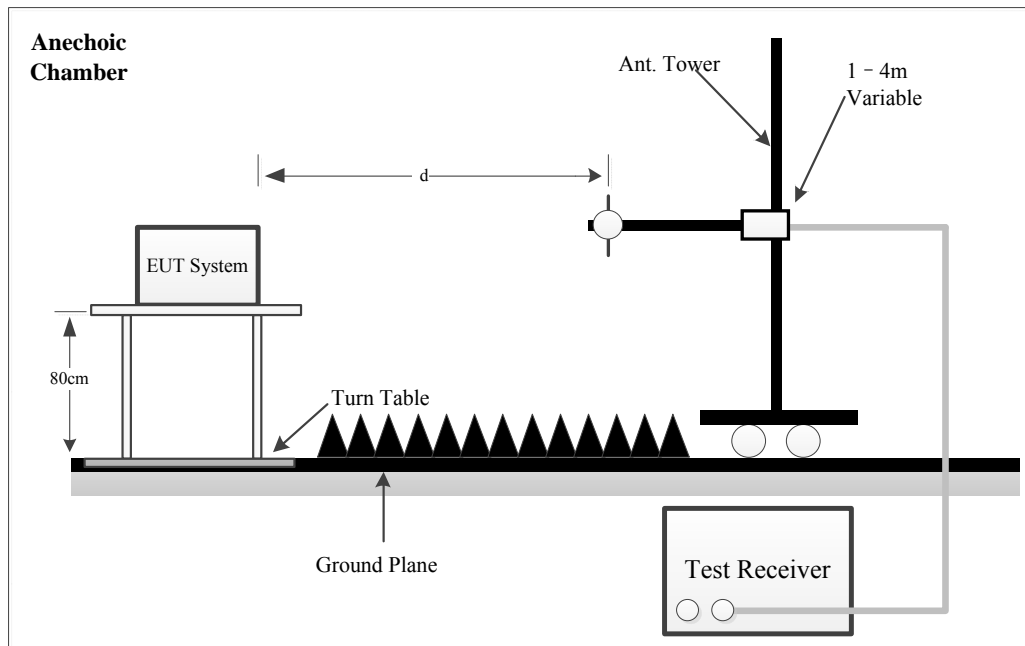
Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests below 1GHz were performed in 3 meters, above 1GHz were performed in the 3 meters. The specification used was EN 55032 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

EMI Test Receiver and Spectrum Analyzer Setup

The system was investigated from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver(Below 1GHz) and Spectrum Analyzer(Above 1GHz) were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz - 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	Peak
	1MHz	10Hz	/	Average

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak detection mode above 1GHz.

Corrected Amplitude & Margin Calculation

The basic equation is as follows: $\text{Result} = \text{Meter Reading} + \text{Corrected}$

Note:

$\text{Corrected} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$, or

$\text{Corrected} = \text{Antenna Factor} + \text{Cable Loss} + \text{Insertion loss of attenuator} - \text{Amplifier Gain}$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit.

For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows: $\text{Margin} = \text{Limit} - \text{Result}$

Test Data

Please refer to following table and plots:

Below 1G

Project No.: 2402Z107018E-RF

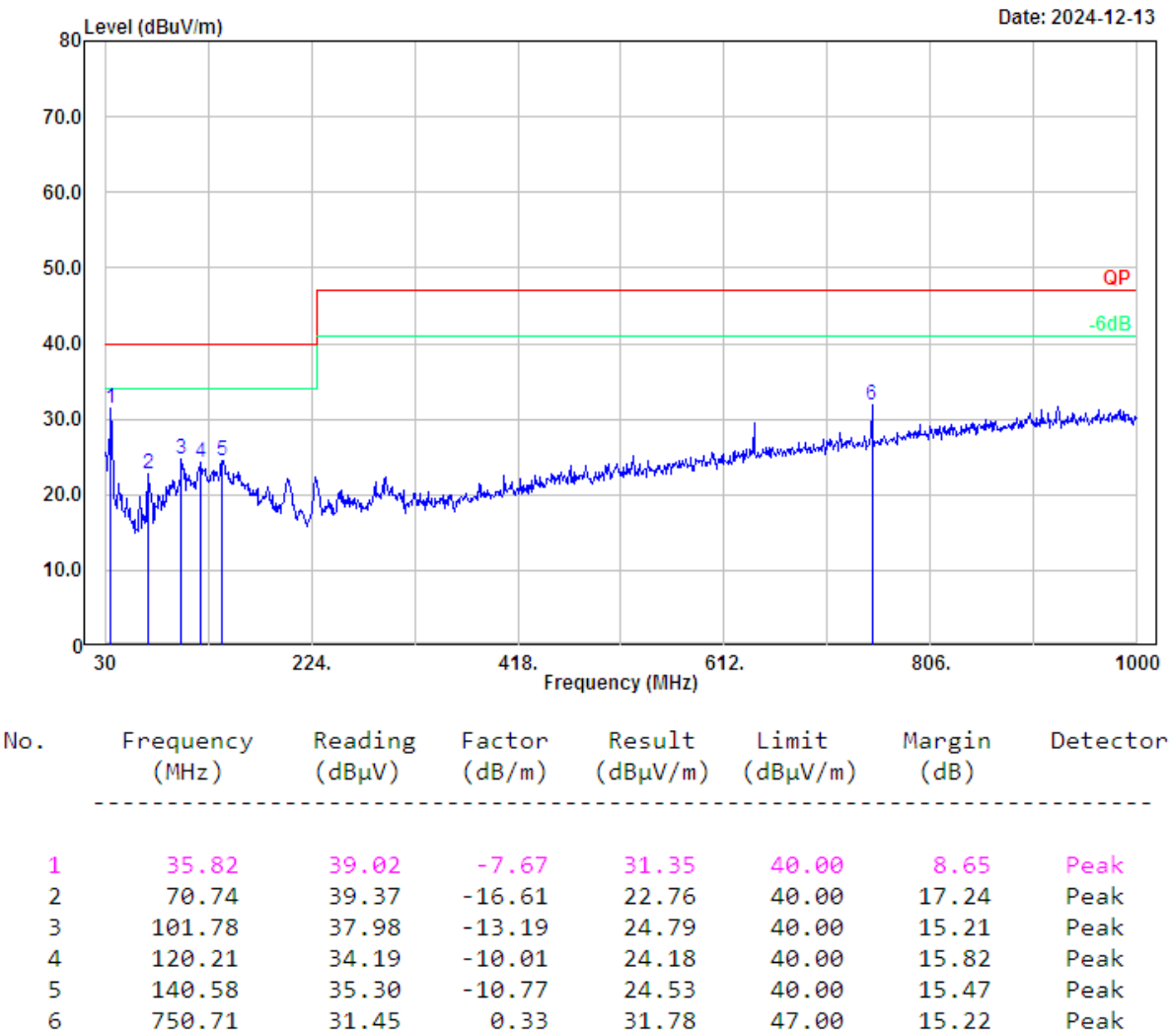
Serial No.: 2V5L-3

Polarization: Horizontal

Tester: Alan Xie

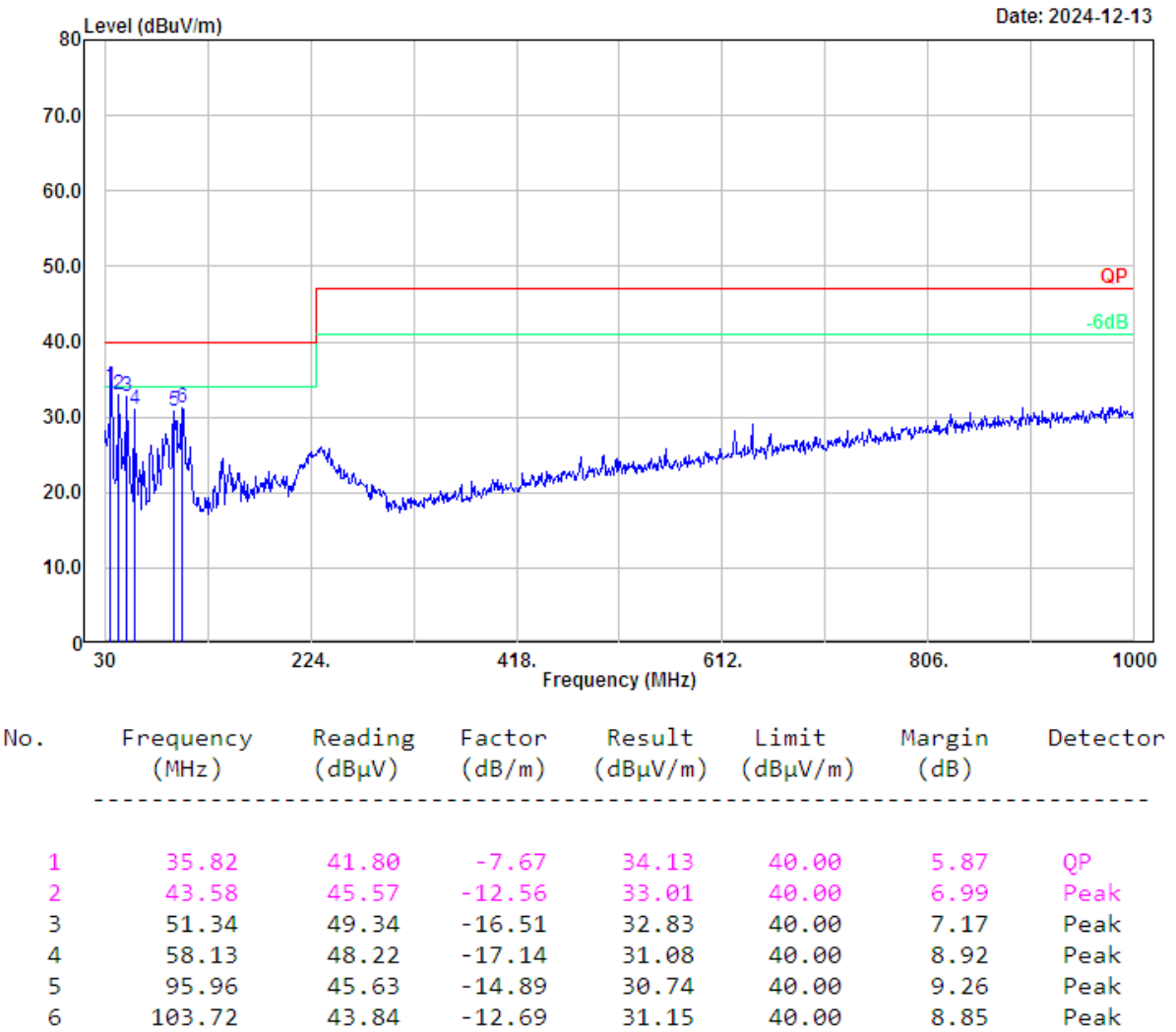
Test Mode: M1

Note: 110V 60Hz



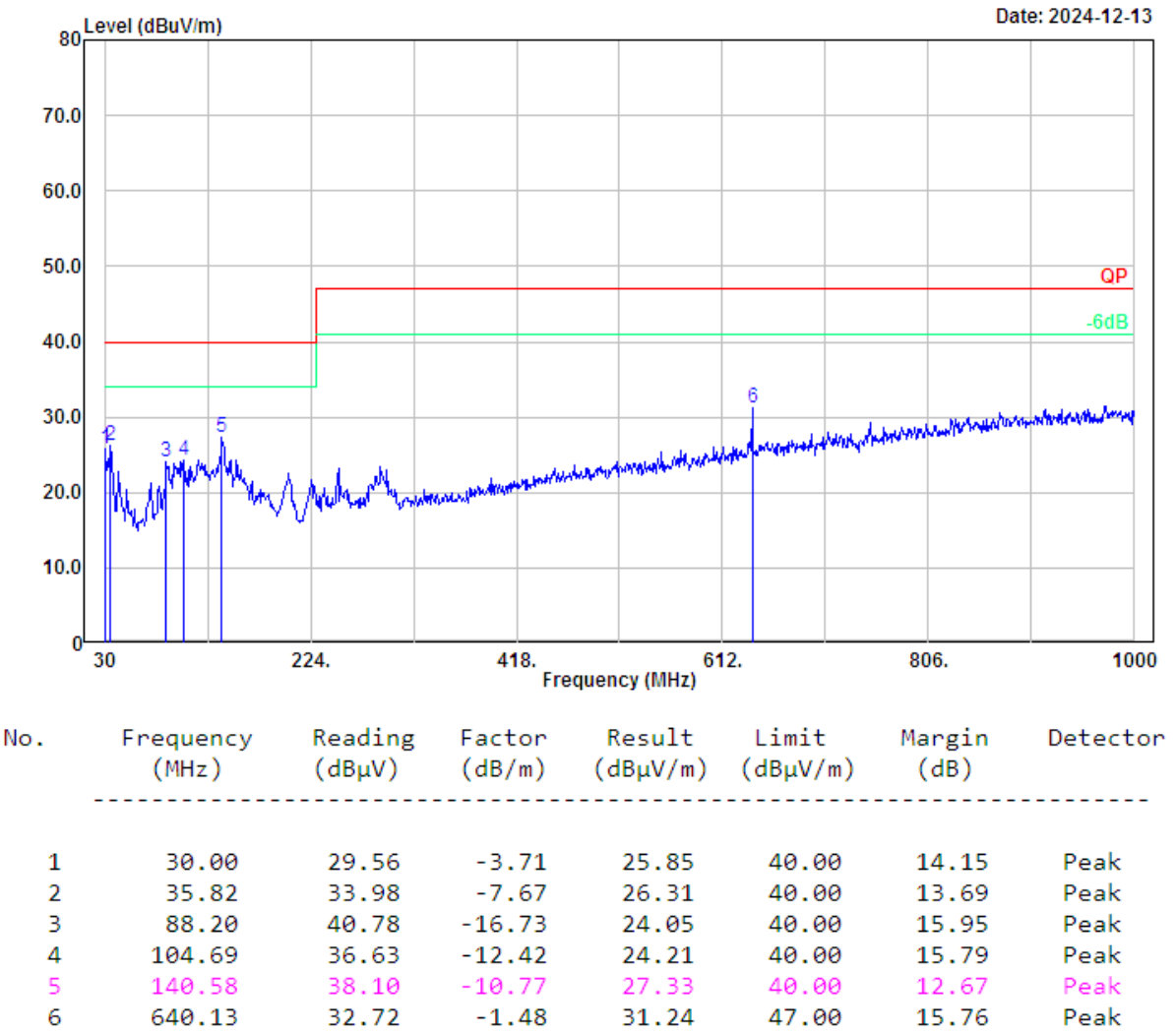
Project No.: 2402Z107018E-RF
Polarization: Vertical
Test Mode: M1
Note: 110V 60Hz

Serial No.: 2V5L-3
Tester: Alan Xie



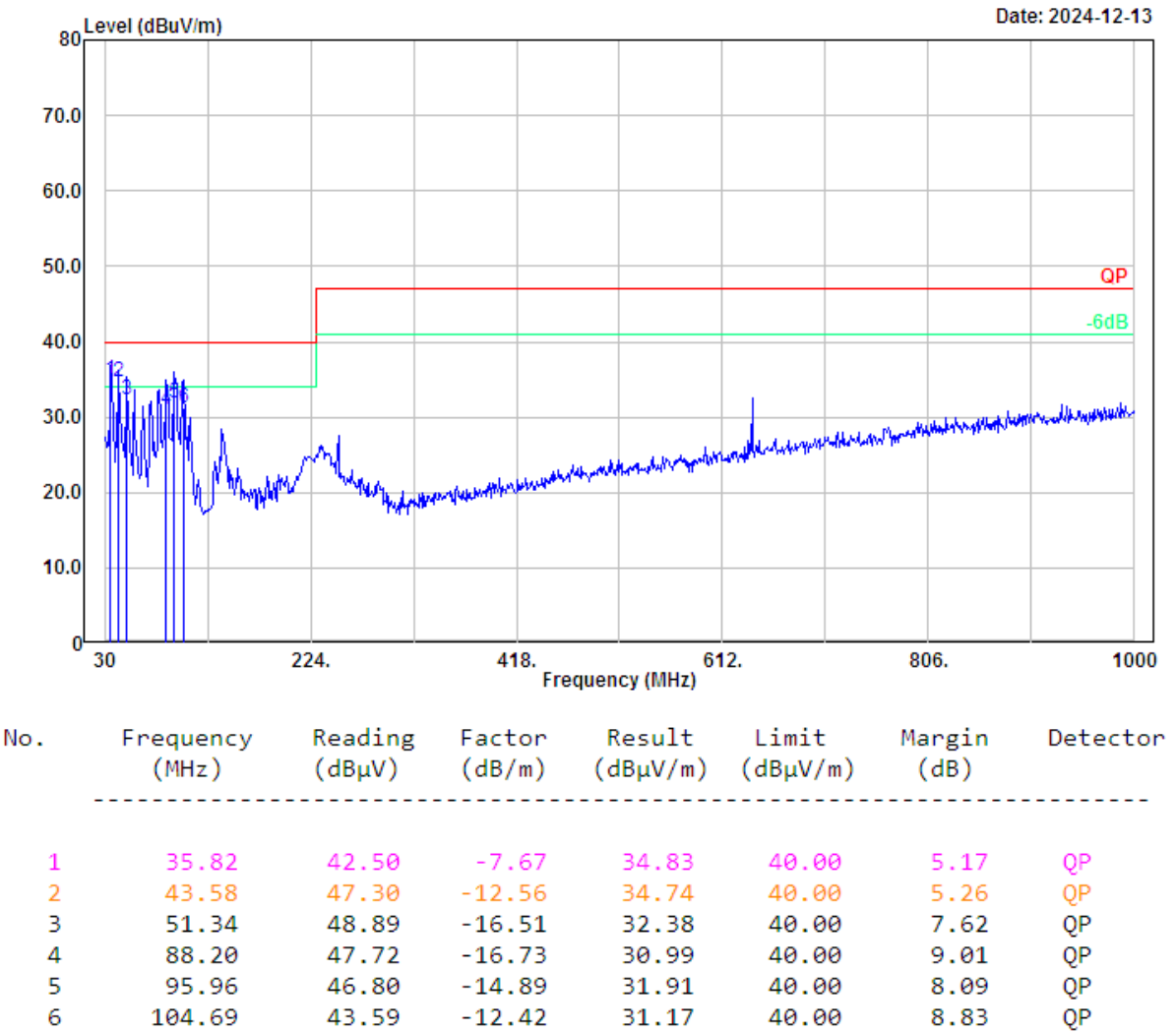
Project No.: 2402Z107018E-RF
Polarization: Horizontal
Test Mode: M1
Note: 230V 50Hz

Serial No.: 2V5L-3
Tester: Alan Xie



Project No.: 2402Z107018E-RF
Polarization: Vertical
Test Mode: M1
Note: 230V 50Hz

Serial No.: 2V5L-3
Tester: Alan Xie

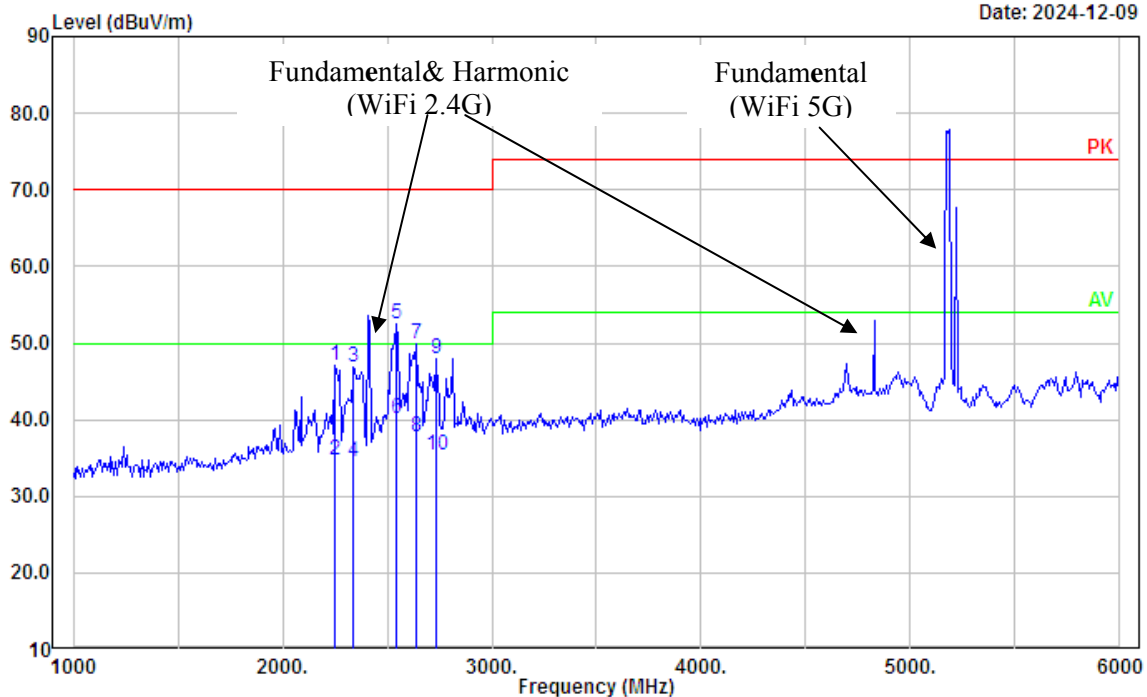


Above 1G

Project No.: 2402Z107018E-RF
Polarization: Horizontal
Test Mode: M1
Note: 110V

Serial No.: 2V5M-3
Tester: Jayce Wang

Date: 2024-12-09



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2246.377	44.32	2.77	47.09	70.00	22.91	Peak
2	2246.377	31.91	2.77	34.68	50.00	15.32	Average
3	2340.580	43.47	3.37	46.84	70.00	23.16	Peak
4	2340.580	31.19	3.37	34.56	50.00	15.44	Average
5	2543.478	48.19	4.23	52.42	70.00	17.58	Peak
6	2543.478	35.92	4.23	40.15	50.00	9.85	Average
7	2637.681	45.49	4.41	49.90	70.00	20.10	Peak
8	2637.681	33.27	4.41	37.68	50.00	12.32	Average
9	2731.884	43.35	4.53	47.88	70.00	22.12	Peak
10	2731.884	30.92	4.53	35.45	50.00	14.55	Average

Project No.: 2402Z107018E-RF

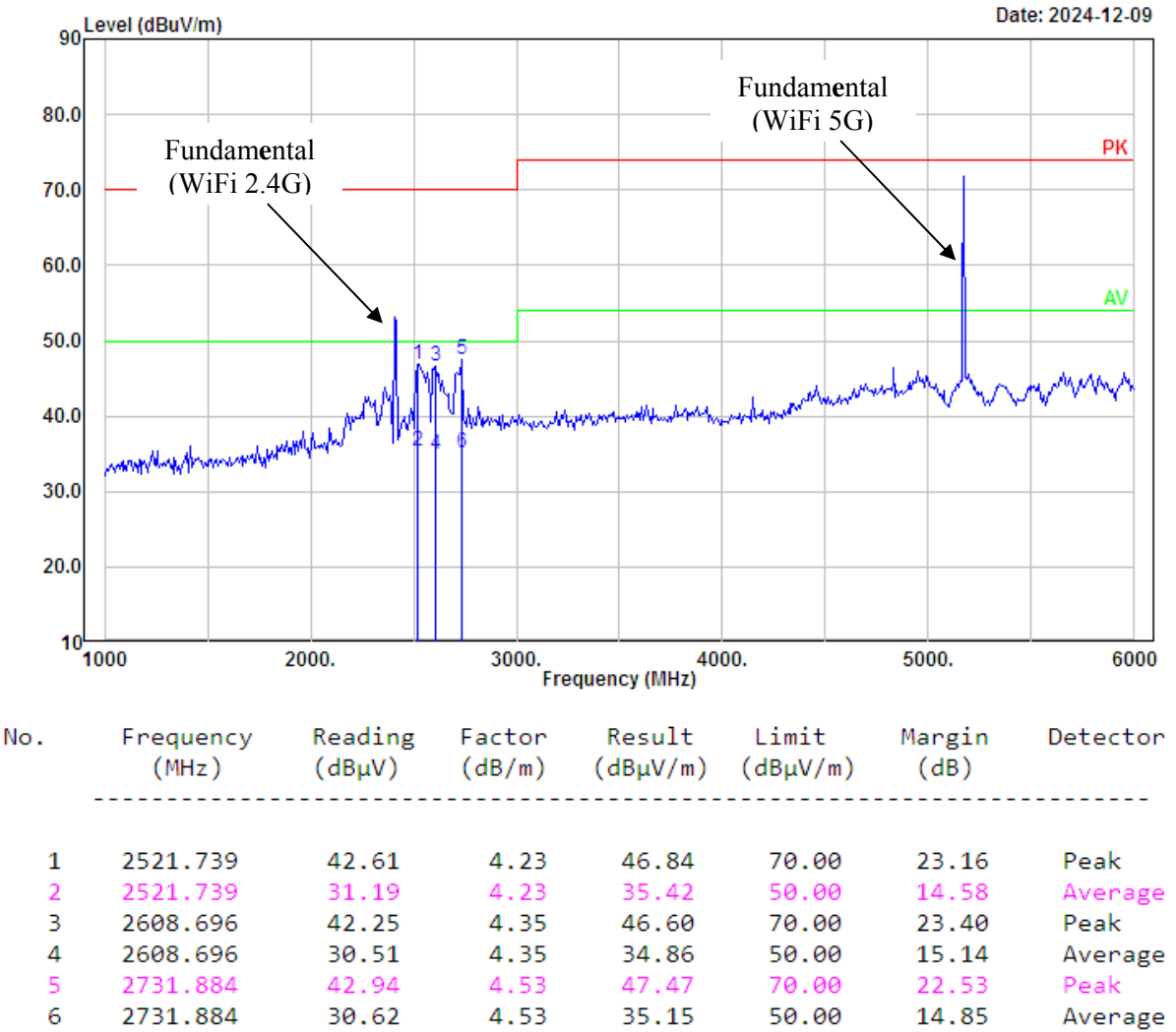
Serial No.: 2V5M-3

Polarization: Vertical

Tester: Jayce Wang

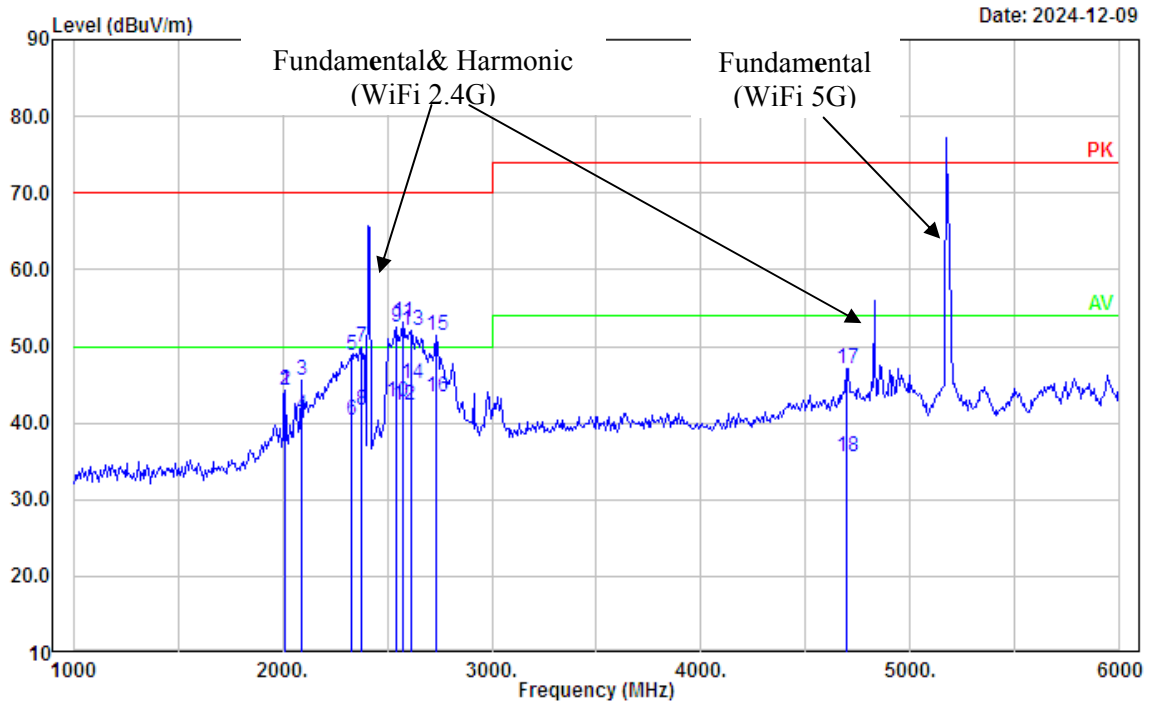
Test Mode: M1

Note: 110V



Project No.: 2402Z107018E-RF
Polarization: Horizontal
Test Mode: M1
Note: 230V

Serial No.: 2V5M-3
Tester: Jayce Wang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
<hr/>							
1	2014.493	42.78	1.38	44.16	70.00	25.84	Peak
2	2014.493	42.78	1.38	44.16	70.00	25.84	Peak
3	2094.203	43.76	1.76	45.52	70.00	24.48	Peak
4	2094.203	39.20	1.76	40.96	50.00	9.04	Average
5	2326.087	45.65	3.26	48.91	70.00	21.09	Peak
6	2326.087	37.04	3.26	40.30	50.00	9.70	Average
7	2376.812	46.42	3.54	49.96	70.00	20.04	Peak
8	2376.812	38.15	3.54	41.69	50.00	8.31	Average
9	2543.478	48.35	4.23	52.58	70.00	17.42	Peak
10	2543.478	38.54	4.23	42.77	50.00	7.23	Average
11	2572.464	48.77	4.28	53.05	70.00	16.95	Peak
12	2572.464	38.04	4.28	42.32	50.00	7.68	Average
13	2615.942	47.64	4.37	52.01	70.00	17.99	Peak
14	2615.942	40.70	4.37	45.07	50.00	4.93	Average
15	2731.884	46.85	4.53	51.38	70.00	18.62	Peak
16	2731.884	38.76	4.53	43.29	50.00	6.71	Average
17	4695.652	37.12	9.87	46.99	74.00	27.01	Peak
18	4695.652	25.67	9.87	35.54	54.00	18.46	Average

Project No.: 2402Z107018E-RF

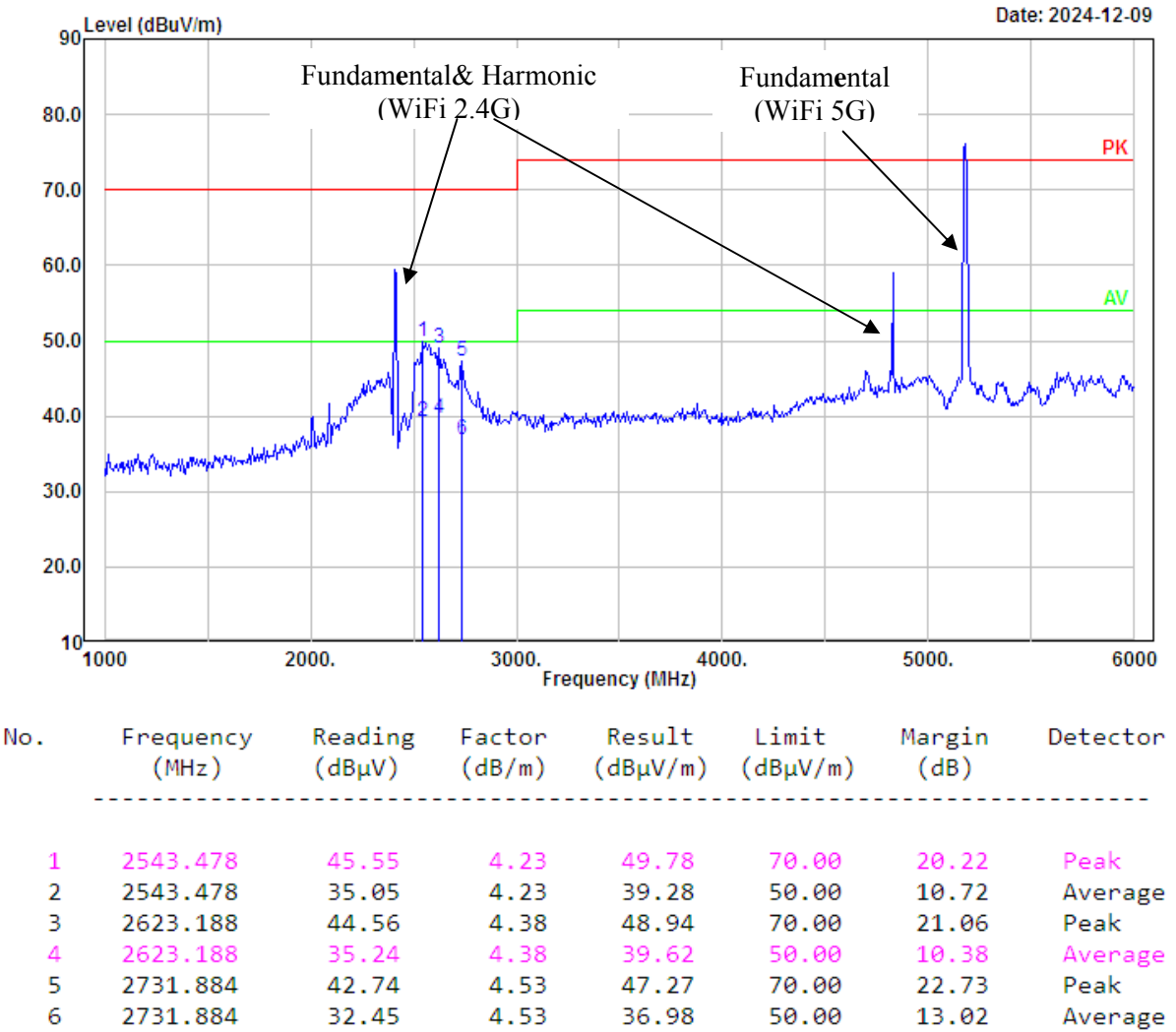
Serial No.: 2V5M-3

Polarization: Vertical

Tester: Jayce Wang

Test Mode: M1

Note: 230V



3 - AC MAINS POWER INPUT/OUTPUT PORTS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

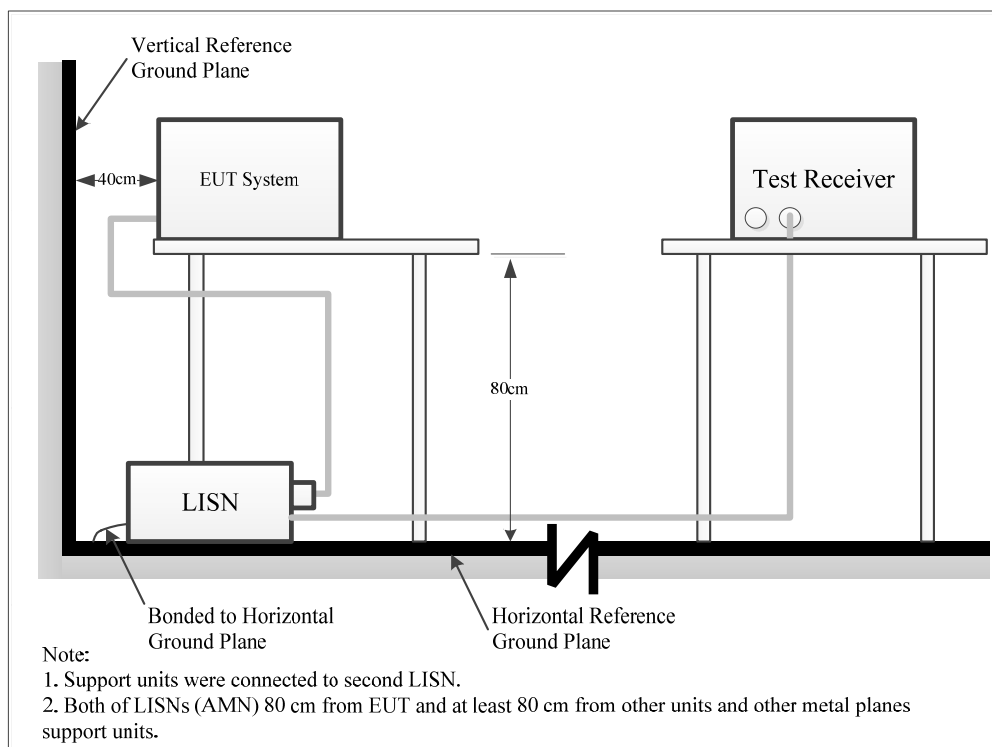
Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz), and conducted disturbance at telecommunication port using AAN is 5.0 dB (150 kHz to 30 MHz).

Table 1 - Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (9 kHz to 150 kHz)	3.8 dB
(150 kHz to 30 MHz)	3.4 dB
Conducted disturbance at mains port using voltage probe (9 kHz to 30 MHz)	2.9 dB
Conducted disturbance at telecommunication port using AAN (150 kHz to 30 MHz)	5.0 dB
Conducted disturbance at telecommunication port using CVP (150 kHz to 30 MHz)	3.9 dB
Conducted disturbance at telecommunication port using CP (150 kHz to 30 MHz)	2.9 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



The setup of EUT is according with per EN 301 489-1 measurement procedures. The specification used was with the EN 301 489-1 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

The adapter was connected to AC230V/50Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz - 30 MHz	9 kHz

Test Procedure

During the conducted emissions test, the adapter was connected to the main outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows: Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

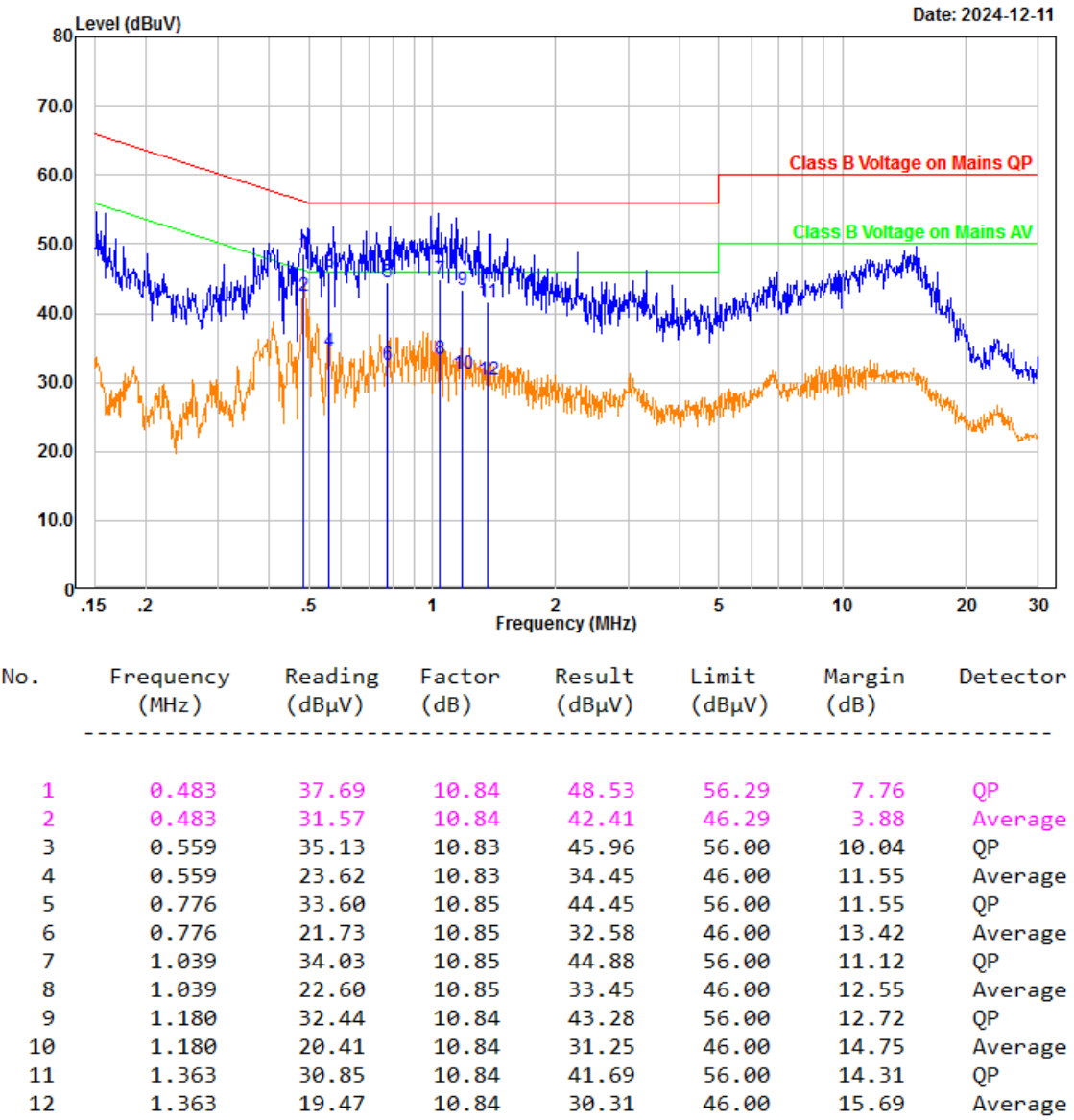
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows: Margin = Limit -Result

Test Data

Please refer to following table and plots:

Project No.: 2402Z107018E-RF
Port: Line
Test Mode: M1
Note: 110V 60Hz

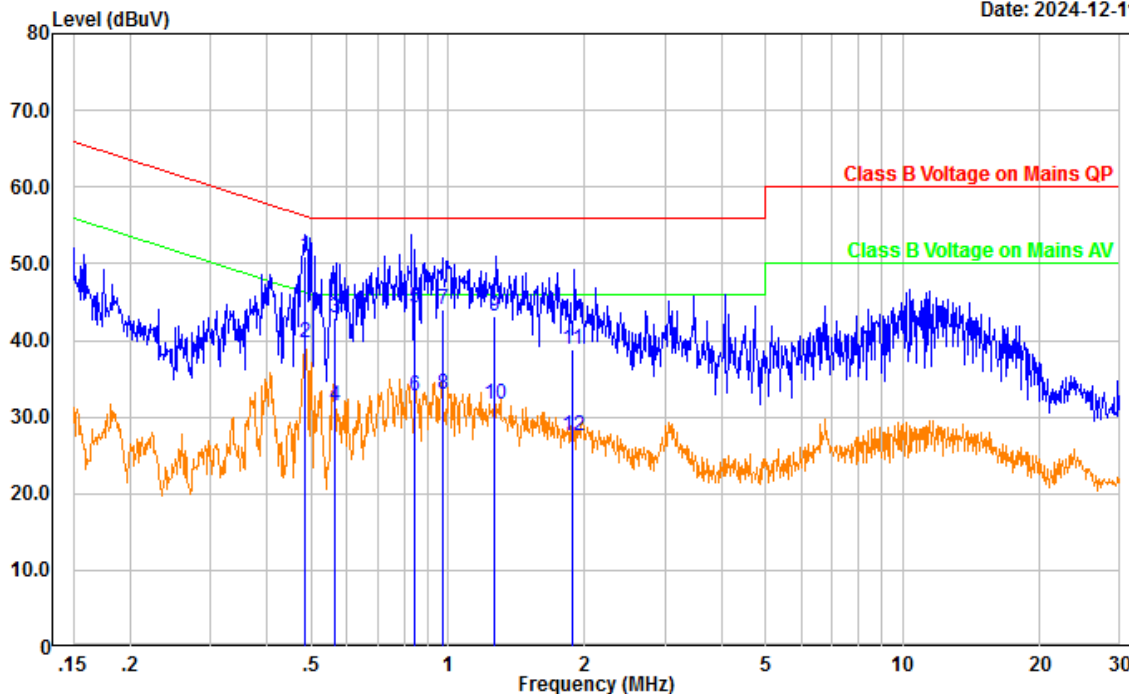
Serial No.: 2V5L-3
Tester: Yolo Fan



Project No.: 2402Z107018E-RF
Port: neutral
Test Mode: M1
Note: 110V 60Hz

Serial No.: 2V5L-3
Tester: Yolo Fan

Date: 2024-12-11

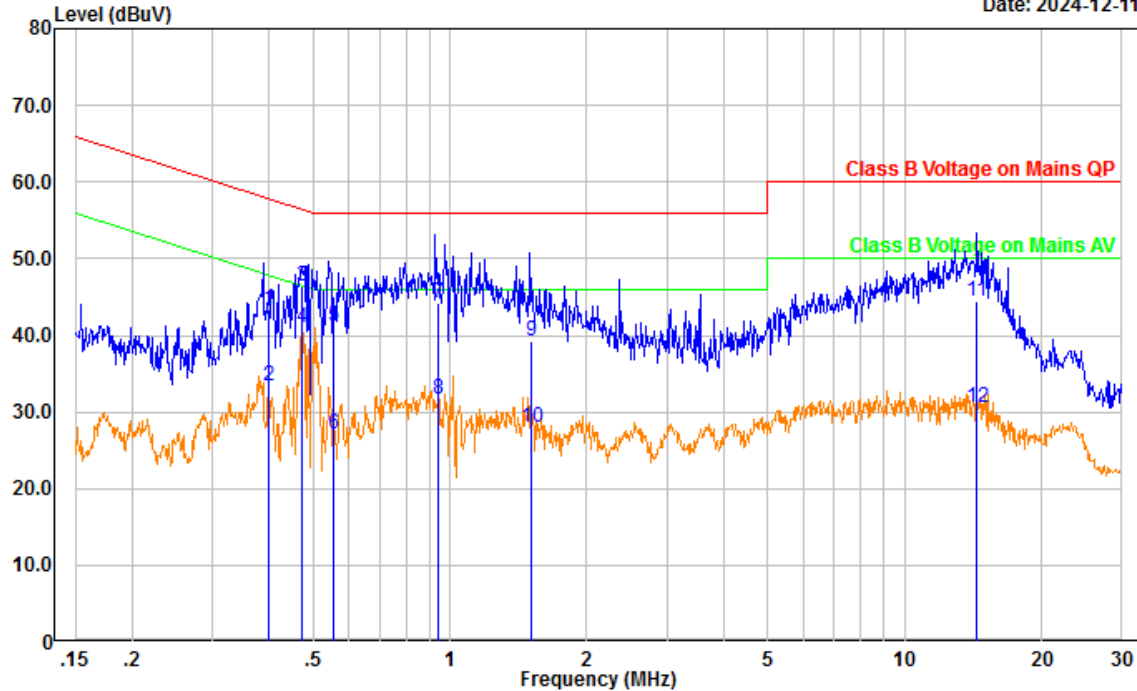


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.484	40.13	10.75	50.88	56.27	5.39	QP
2	0.484	28.94	10.75	39.69	46.27	6.58	Average
3	0.562	32.12	10.73	42.85	56.00	13.15	QP
4	0.562	20.63	10.73	31.36	46.00	14.64	Average
5	0.847	33.49	10.80	44.29	56.00	11.71	QP
6	0.847	22.04	10.80	32.84	46.00	13.16	Average
7	0.976	33.10	10.84	43.94	56.00	12.06	QP
8	0.976	22.20	10.84	33.04	46.00	12.96	Average
9	1.265	32.25	10.87	43.12	56.00	12.88	QP
10	1.265	20.76	10.87	31.63	46.00	14.37	Average
11	1.874	27.86	10.91	38.77	56.00	17.23	QP
12	1.874	16.55	10.91	27.46	46.00	18.54	Average

Project No.: 2402Z107018E-RF
Port: Line
Test Mode: M1
Note: 230V 50Hz

Serial No.: 2V5L-3
Tester: Yolo Fan

Date: 2024-12-11

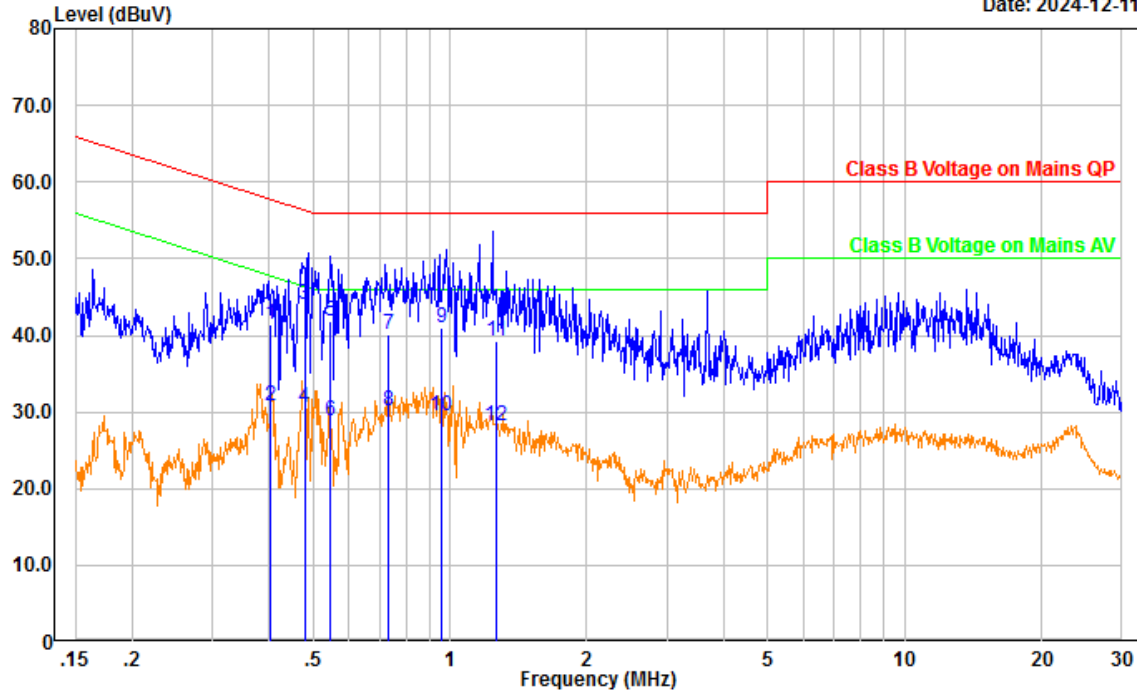


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.398	32.51	10.84	43.35	57.89	14.54	QP
2	0.398	22.63	10.84	33.47	47.89	14.42	Average
3	0.472	35.65	10.84	46.49	56.48	9.99	QP
4	0.472	30.13	10.84	40.97	46.48	5.51	Average
5	0.553	30.42	10.83	41.25	56.00	14.75	QP
6	0.553	16.16	10.83	26.99	46.00	19.01	Average
7	0.939	33.31	10.86	44.17	56.00	11.83	QP
8	0.939	20.87	10.86	31.73	46.00	14.27	Average
9	1.511	28.47	10.83	39.30	56.00	16.70	QP
10	1.511	17.13	10.83	27.96	46.00	18.04	Average
11	14.358	33.62	10.85	44.47	60.00	15.53	QP
12	14.358	19.82	10.85	30.67	50.00	19.33	Average

Project No.: 2402Z107018E-RF
Port: neutral
Test Mode: M1
Note: 230V 50Hz

Serial No.: 2V5L-3
Tester: Yolo Fan

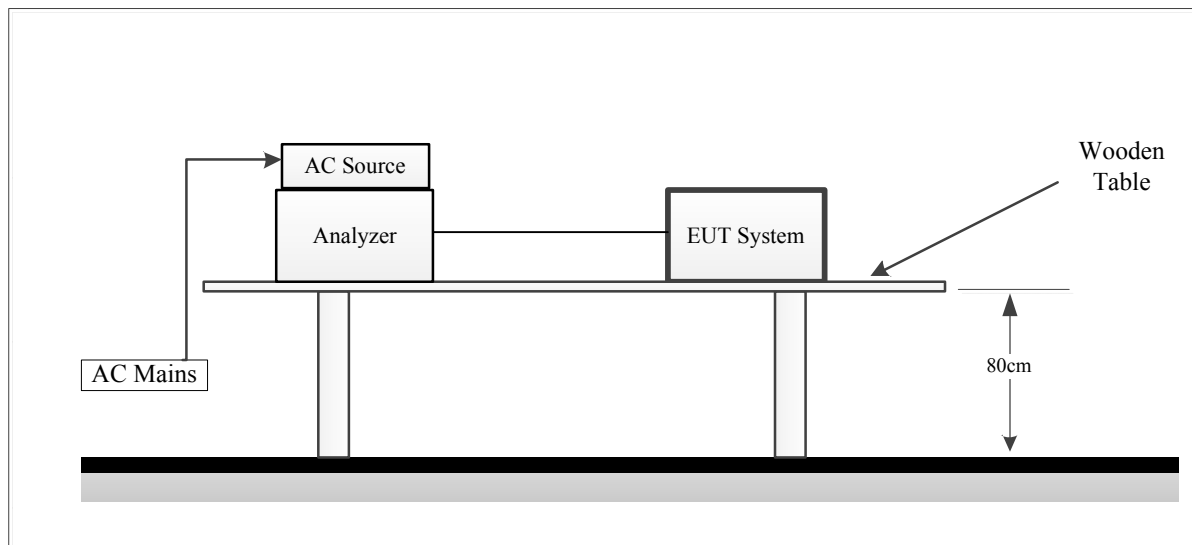
Date: 2024-12-11



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.402	30.65	10.77	41.42	57.82	16.40	QP
2	0.402	20.00	10.77	30.77	47.82	17.05	Average
3	0.479	33.23	10.75	43.98	56.36	12.38	QP
4	0.479	19.80	10.75	30.55	46.36	15.81	Average
5	0.545	31.11	10.73	41.84	56.00	14.16	QP
6	0.545	18.20	10.73	28.93	46.00	17.07	Average
7	0.734	29.40	10.77	40.17	56.00	15.83	QP
8	0.734	19.32	10.77	30.09	46.00	15.91	Average
9	0.955	30.05	10.83	40.88	56.00	15.12	QP
10	0.955	18.75	10.83	29.58	46.00	16.42	Average
11	1.260	28.36	10.87	39.23	56.00	16.77	QP
12	1.260	17.35	10.87	28.22	46.00	17.78	Average

5 - VOLTAGE FLUCTUATIONS AND FLICKER (AC MAINS INPUT PORT)

Test System Setup



Test Standard

EN 61000-3-3:2013+A1:2019+A2:2021

Flicker Test Limits:

The limits shall be applicable to voltage fluctuations and flicker at the supply terminals of the equipment under test, measured or calculated according to clause 4 under test conditions described in clause 6 and annex A. Tests made to prove compliance with the limits are considered to be type tests.

The following limits apply:

- the value of P_{st} shall not be greater than 1,0;
- the value of P_{lt} shall not be greater than 0,65;
- the value of $d(t)$ during a voltage change shall not exceed 3,3 % for more than 500 ms;
- the relative steady-state voltage change, d_c , shall not exceed 3,3 %;
- the maximum relative voltage change d_{max} , shall not exceed
 - a) 4 % without additional conditions;
 - b) 6 % for equipment which is:
 - switched manually, or
 - switched automatically more frequently than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds), or manual restart, after a power supply interruption.

Note: The cycling frequency will be further limited by the P_{st} and P_{lt} limit. For example: a d_{max} of 6 % producing a rectangular voltage change characteristic twice per hour will give a P_{lt} of about 0,65.

- c) 7 % for equipment which is
 - attended whilst in use (for example: hair dryers, vacuum cleaners, kitchen equipment such as mixers, garden equipment such as lawn mowers, portable tools such as electric drills), or
 - switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds) or manual restart, after a power supply interruption.

In the case of equipment having several separately controlled circuits in accordance with 6.6, limits b) and c) shall apply only if there is delayed or manual restart after a power supply interruption; for all equipment with automatic switching which is energized immediately on restoration of supply after a power supply interruption, limits a) shall apply; for all equipment with manual switching, limits b) or c) shall apply depending on the rate of switching. P_{st} and P_{lt} requirements shall not be applied to voltage changes caused by manual switching. The limits shall not be applied to voltage changes associated with emergency switching or emergency interruptions.

Test Data

Please refer to following tables:

Short time (Pst): 10 min
Observation time: 120 min(12 Flicker measurement)
Test Mode: M1: Operating
Power Source: AC 230V/50Hz
Test Result PASS

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.015	1.00	PASS
Plt	0.007	0.65	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.000	4.00	PASS
dt [s]	0.000	0.50	PASS

6 - WIRED NETWORK PORTS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

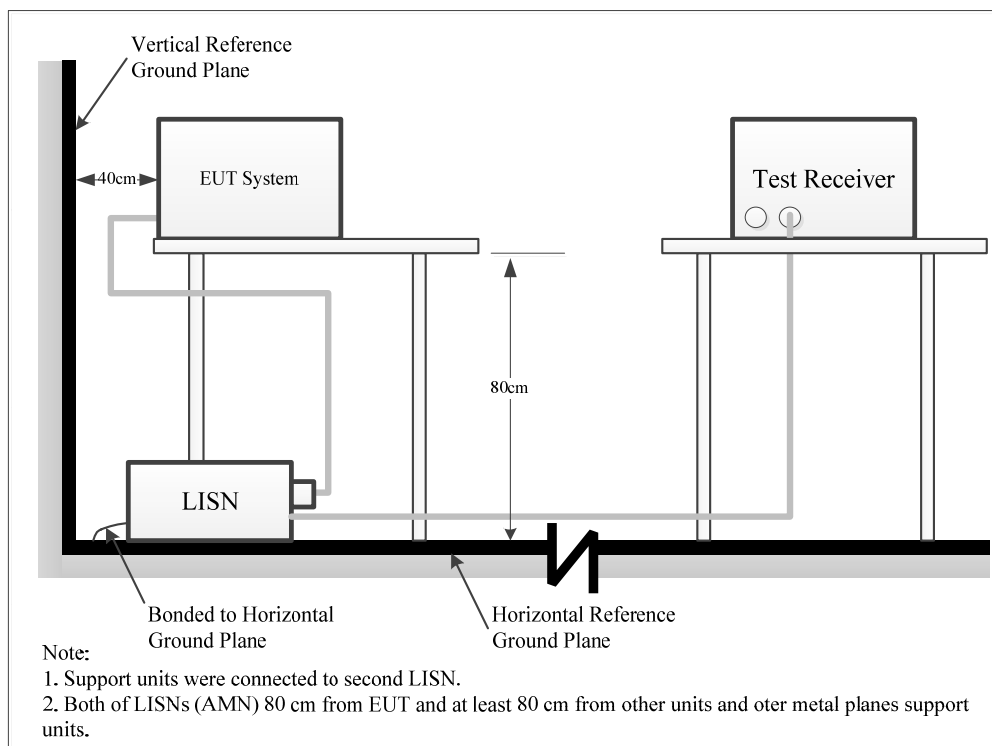
Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz), and conducted disturbance at telecommunication port using AAN is 5.0 dB (150 kHz to 30 MHz).

Table 1 - Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (9 kHz to 150 kHz)	3.8 dB
(150 kHz to 30 MHz)	3.4 dB
Conducted disturbance at mains port using voltage probe (9 kHz to 30 MHz)	2.9 dB
Conducted disturbance at telecommunication port using AAN (150 kHz to 30 MHz)	5.0 dB
Conducted disturbance at telecommunication port using CVP (150 kHz to 30 MHz)	3.9 dB
Conducted disturbance at telecommunication port using CP (150 kHz to 30 MHz)	2.9 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



The setup of EUT is according with per EN 301 489-1 measurement procedures. The specification used was with the EN 301 489-1 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz - 30 MHz	9 kHz

Test Procedure

During the conducted emissions test, the adapter was connected to the main outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows: Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

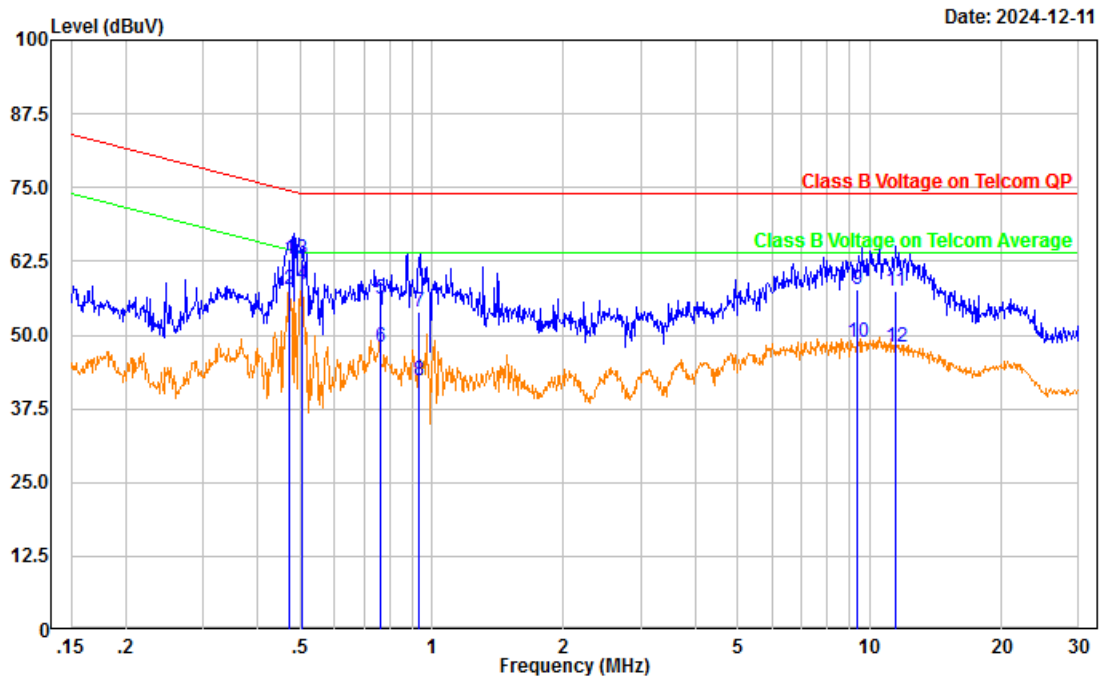
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows: Margin = Limit -Result

Test Data

Please refer to following table and plots:

Project No.: 2402Z107018E-RF
Tester: Yolo Fan
Note: RJ45 10Mbps

Serial No.: 2V5L-3
Test Mode: M1

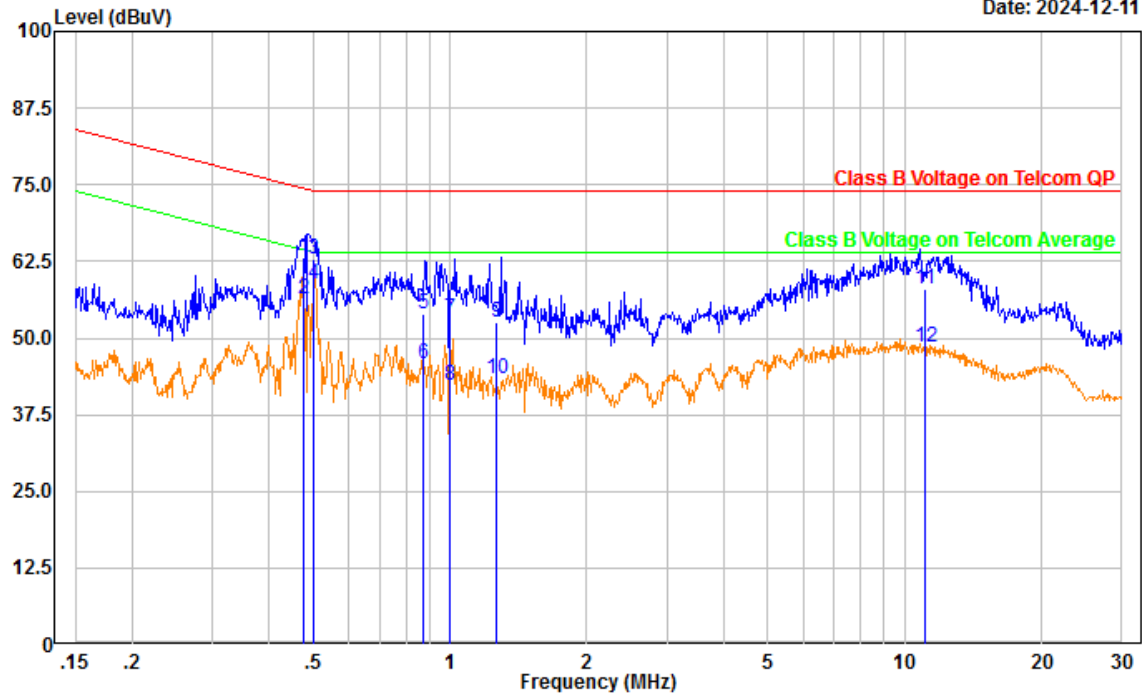


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.472	53.12	9.74	62.86	74.48	11.62	QP
2	0.472	48.05	9.74	57.79	64.48	6.69	Average
3	0.506	53.11	9.74	62.85	74.00	11.15	QP
4	0.506	48.70	9.74	58.44	64.00	5.56	Average
5	0.761	46.51	9.69	56.20	74.00	17.80	QP
6	0.761	38.34	9.69	48.03	64.00	15.97	Average
7	0.931	44.29	9.66	53.95	74.00	20.05	QP
8	0.931	32.62	9.66	42.28	64.00	21.72	Average
9	9.352	48.17	9.52	57.69	74.00	16.31	QP
10	9.352	39.15	9.52	48.67	64.00	15.33	Average
11	11.422	47.78	9.55	57.33	74.00	16.67	QP
12	11.422	38.36	9.55	47.91	64.00	16.09	Average

Project No.: 2402Z107018E-RF
Tester: Yolo Fan
Note: RJ45 100Mbps

Serial No.: 2V5L-3
Test Mode: M1

Date: 2024-12-11



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.477	53.36	9.74	63.10	74.40	11.30	QP
2	0.477	46.72	9.74	56.46	64.40	7.94	Average
3	0.501	53.06	9.74	62.80	74.00	11.20	QP
4	0.501	49.13	9.74	58.87	64.00	5.13	Average
5	0.872	44.26	9.66	53.92	74.00	20.08	QP
6	0.872	36.19	9.66	45.85	64.00	18.15	Average
7	1.000	43.60	9.65	53.25	74.00	20.75	QP
8	1.000	32.52	9.65	42.17	64.00	21.83	Average
9	1.266	42.96	9.64	52.60	74.00	21.40	QP
10	1.266	33.82	9.64	43.46	64.00	20.54	Average
11	11.068	48.45	9.55	58.00	74.00	16.00	QP
12	11.068	39.07	9.55	48.62	64.00	15.38	Average

7 - RADIO FREQUENCY ELECTROMAGNETIC FIELDS (80 MHZ TO 6 000 MHZ)

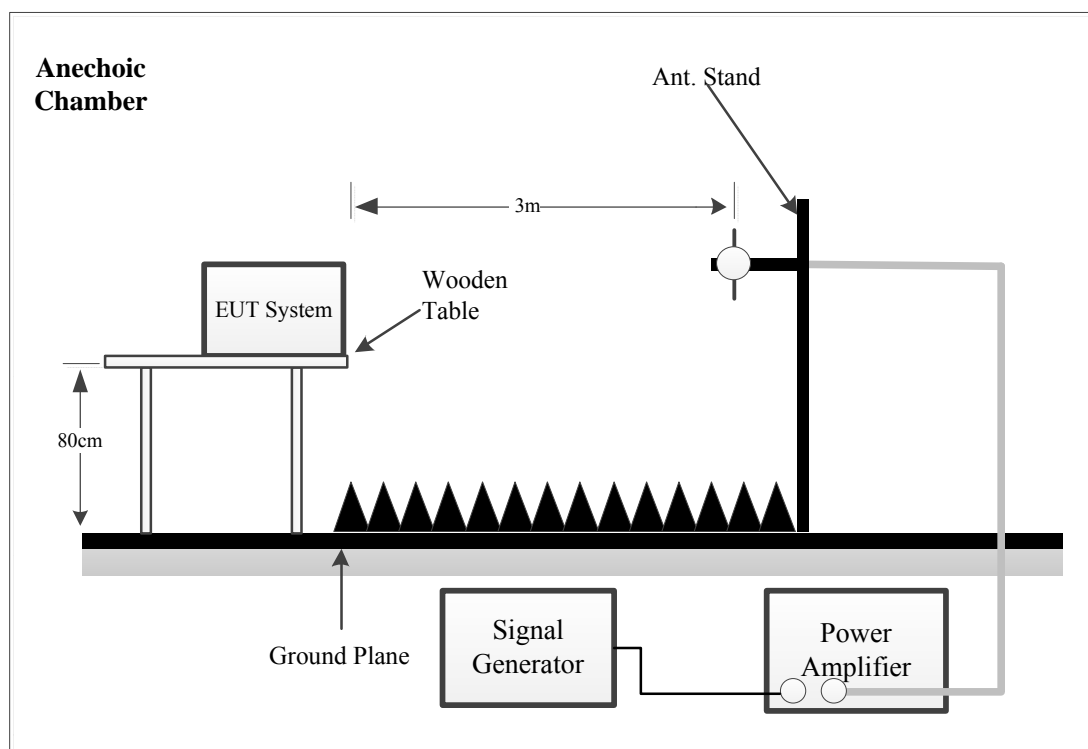
Measurement Uncertainty

U_{lab} (measurement uncertainty of lab) and U_{EN} (measurement uncertainty of EN 61000-4-3) please refer to the following:

Parameter	U_{EN}	U_{lab}
Calibration process	1.88 dB	1.88 dB
Level setting	2.19 dB	2.19 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



Test Level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

Performance Criterion: A

General Performance Criteria:

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacture as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.
- D. The apparatus is broken, cannot be normal operated.

Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this antenna and measured individually.

In order to judge the EUT performance, a CCD camera and Laptop were used to monitor the EUT.

Test Data

Please refer to following tables:

Test Mode: M1

Note:

Condition of Test	Remarks
Field Strength	3 V/m
RF Signal	1 kHz, 80% AM, sine wave
Sweep Frequency Step	1 %, logarithmic
Dwell Time	1 Sec

Table 1: Radiated RF-Electromagnetic Field Immunity, Swept Test

Frequency Range (MHz)	Front Side		Rear Side		Left Side		Right Side		Top Side		Bottom Side	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	A	A	A	A	A	A	A	A	A	A	A	A
1000-6000	A	A	A	A	A	A	A	A	A	A	A	A
Required Performance Criteria: A												
Description of Performance reduction: N/A												

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

8 - ELECTROSTATIC DISCHARGES

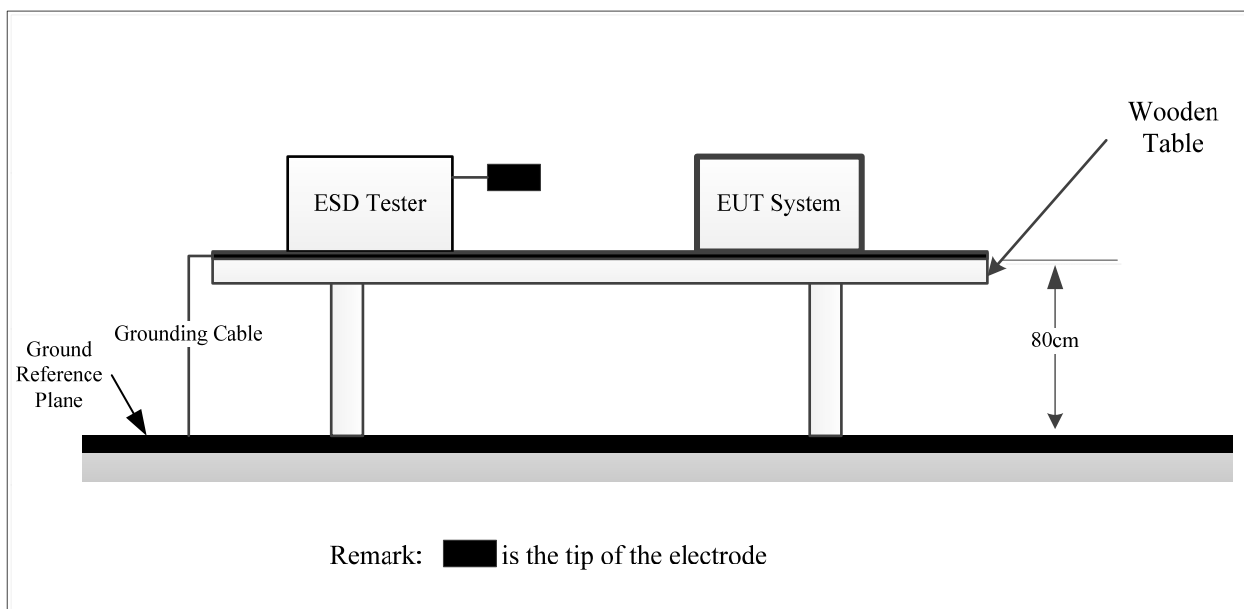
Measurement Uncertainty

U_{lab} (measurement uncertainty of lab) and U_{EN} (measurement uncertainty of EN 61000-4-2) please refer to the following:

Parameter	U_{EN}	U_{lab}
Rise time t_r	$\leq 15\%$	15%
Peak current I_p	$\leq 7\%$	6.3%
Current at 30 ns	$\leq 7\%$	6.3%
Current at 60 ns	$\leq 7\%$	6.3%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



EN61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

Test Level

Level	Test Voltage Contact Discharge (\pm kV)	Test Voltage Air Discharge (\pm kV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

Performance criterion: B**Test Procedure****Air Discharge:**

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Contact Discharge:

All the procedure shall be same as Section 8.3.1 of IEC 61000-4-2, except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

Indirect discharge for horizontal coupling plane:

At least 10 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

Indirect discharge for vertical coupling plane:

At least 10 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions $0.5\text{m} \times 0.5\text{m}$, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

Test Data

Please refer to following tables:

Test Mode: M1

Note:

Table 1: Electrostatic Discharge Immunity (Air Discharge)

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-8 kV	+8 kV	-15 kV	+15 kV
Non-metallic Shell	A	A	A	A	A	A	/	/
RJ45 Port	A	A	A	A	A	A	/	/
Button	A	A	A	A	A	A	/	/
Seam	A	A	A	A	A	A	/	/
Required Performance Criteria:B Description of Performance reduction: N/A								

Table 2: Electrostatic Discharge Immunity (Direct Contact)

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
/	/	/	/	/	/	/	/	/
Required Performance Criteria:B Description of Performance reduction: N/A								

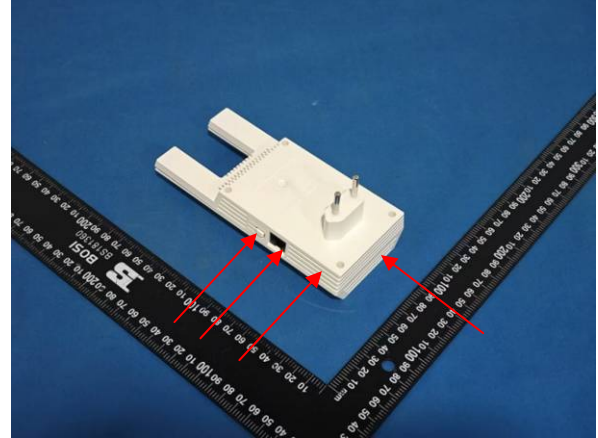
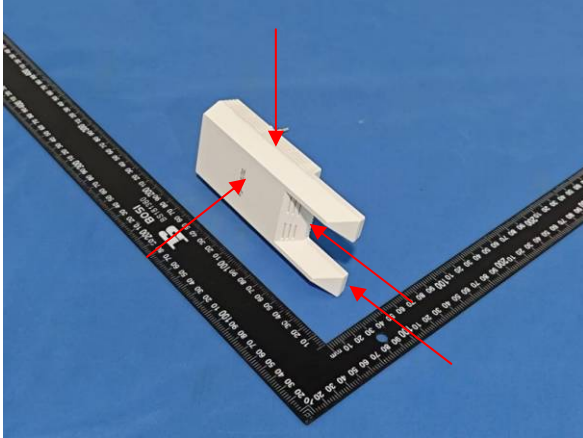
Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)


Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/
Top Side	A	A	A	A	/	/	/	/
Bottom Side	A	A	A	A	/	/	/	/
Required Performance Criteria:B Description of Performance reduction: N/A								


Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/
Required Performance Criteria:B Description of Performance reduction: N/A								

ESD Location Photo



Air Discharge: 

Direct Contact: 

9 - FAST TRANSIENTS, COMMON MODE

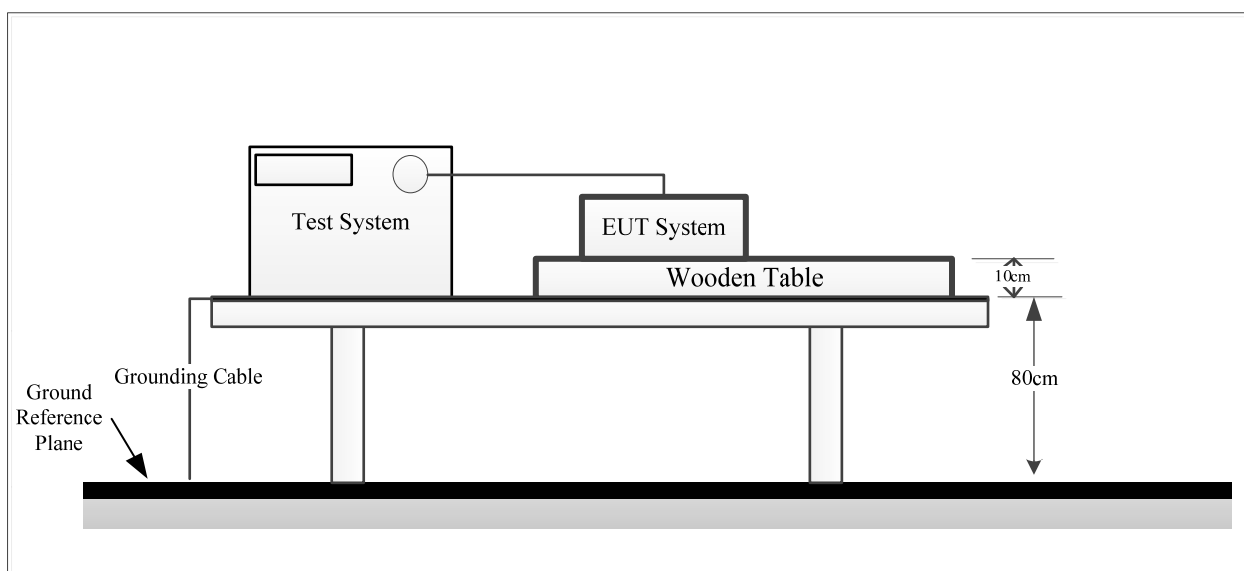
Measurement Uncertainty

U_{lab} (measurement uncertainty of lab) and U_{EN} (measurement uncertainty of EN 61000-4-4) please refer to the following:

Parameter	U_{EN}	U_{lab}
Rise time t_r	6.20%	6.20%
Peak voltage value V_p	8.60%	8.60%
Voltage pulse width t_w	5.90%	5.90%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



Test Level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1	0.5 kV	0.25 kV
2	1 kV	0.5 kV
3	2 kV	1 kV
4	4 kV	2 kV
X	Special	Special

Performance Criterion: B

Test Procedure

The EUT was arranged for Power Line Coupling and for I/O Line Coupling through a capacitive clamp, where applicable. (Note: The I/O coupling test using a capacitive clamp is performed on the I/O interface cables that are longer in length than 3 meters.) A metal ground plane 2.4 meter by 2.0 meter was placed between the floor and the table and is connected to the earth by a 2.0 meter ground rod. The ground rod is connected to the test facility's electrical earth.

Test Data

Please refer to following tables:

Test Mode: M1

Note:

AC Mains Power Input Ports

Test Line	Test Level (kV)							
	+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
L	A	A	A	A	/	/	/	/
N	A	A	A	A	/	/	/	/
Earth	/	/	/	/	/	/	/	/
L+N	A	A	A	A	/	/	/	/
L + Earth	/	/	/	/	/	/	/	/
N + Earth	/	/	/	/	/	/	/	/
L+N+Earth	/	/	/	/	/	/	/	/
Required Performance Criteria: B								
Description of Performance reduction: N/A								

Signal Ports:

Test Ports	Test Level (kV)							
	+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
RJ45	A	A	/	/	/	/	/	/
Required Performance Criteria: B								
Description of Performance reduction: N/A								

10 - RADIO FREQUENCY, COMMON MODE

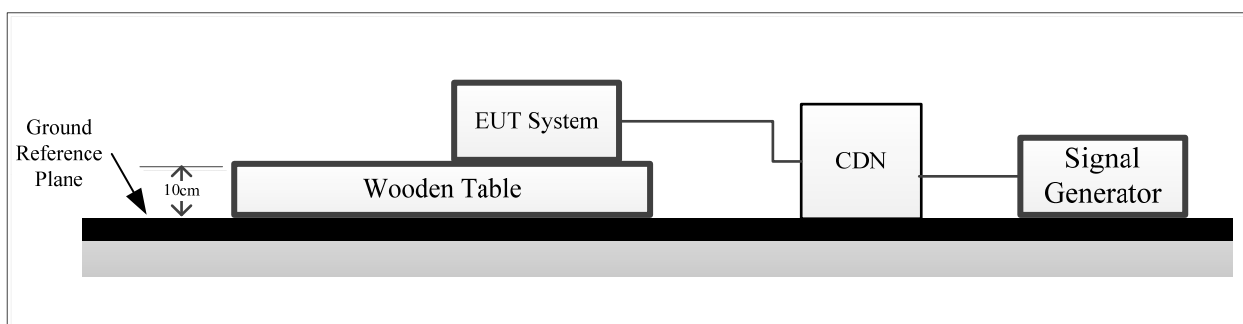
Measurement Uncertainty

U_{lab} (measurement uncertainty of lab) and U_{EN} (measurement uncertainty of EN 61000-4-6) please refer to the following:

Parameter	U_{EN}	U_{lab}
CDN calibration process	1.27 dB	1.27 dB
CDN test process	1.36 dB	1.36 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



Test Level

Level	Voltage Level (r.m.s.) (U_0)
1	1
2	3
3	10
X	Special

Performance Criterion: A

Test Procedure

- 1) Let the EUT work in test mode and test it.
- 2) The EUT are placed on an insulating support 0.1 m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3 m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 3) The disturbance signal described below is injected to EUT through CDN.
- 4) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 5) The frequency range is swept from 150 kHz to 80 MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave.
- 6) Where the frequency is swept incrementally, the step size shall not exceed 1 % of the preceding frequency value. The dwell time of the amplitude modulated carrier at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0.5 s.
- 7) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

Test Data

Please refer to following tables:

Test Mode: M1

Note:

Table 1: AC mains power input port

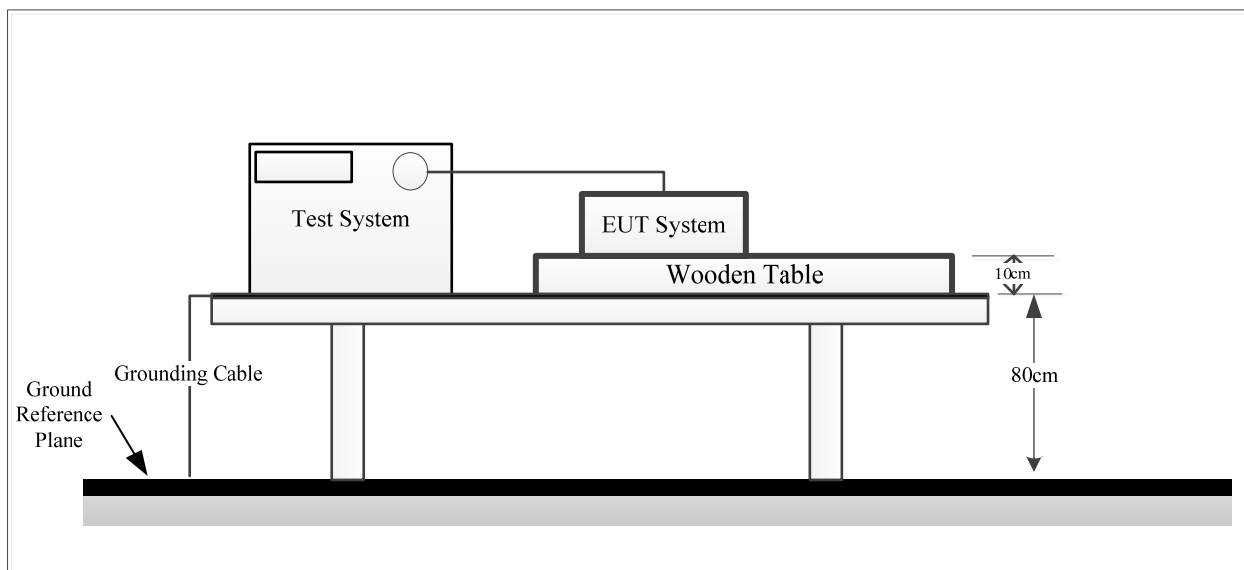
Signal Type	Frequency Range (MHz)	Voltage Level (r.m.s.)	Perform Criterion
Modulation: Amplitude 80%, 1kHz sine wave Dwell Time 1 Sec	0.15-80	3V	A
Required Performance Criteria: A Description of Performance reduction: N/A			

Table 2: Signal Port :RJ45

Signal Type	Frequency Range (MHz)	Voltage Level (r.m.s.)	Perform Criterion
Modulation: Amplitude 80%, 1kHz sine wave Dwell Time 1 Sec	0.15-80	3V	A
Required Performance Criteria: A Description of Performance reduction: N/A			

12 - VOLTAGE DIPS AND SHORT INTERRUPTIONS

Test System Setup



Test Level and Performance Criterion

Test Level	Voltage dip and short interruptions (%) Residual	Duration (in period)	Performance criterion
1	0	0.5	B
2	0	1	B
3	70	25	C
4	0	250	C

Test Procedure

- 1) The interruption is introduced at selected phase angles with specified duration.
- 2) Record any degradation of performance.

Test Data

Please refer to following tables:

Test Mode: M1

Note:

Table 1: Voltage Dips/Interruptions Test

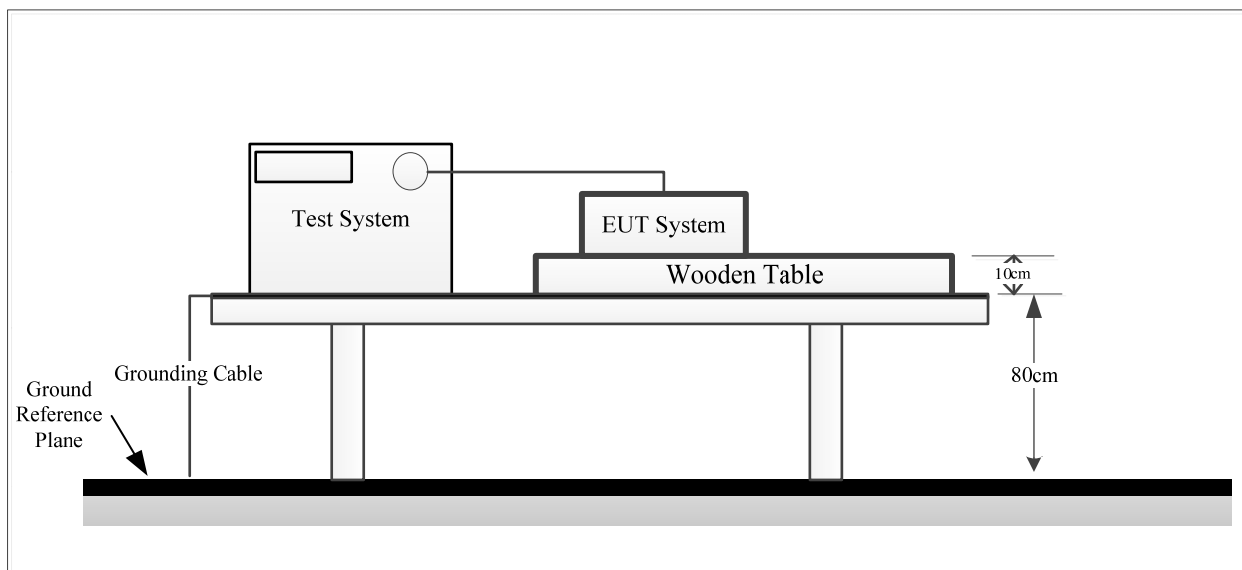
Residual Voltage (%)	Td (Number of cycles)	Phase Angle (°)	N	Result	Required Performance Criteria
0	0.5	0/90/180/270	3	A	B
0	1	0/90/180/270	3	A	B
70	25	0/90/180/270	3	A	C
0	250	0/90/180/270	3	B	C

Description of Performance reduction:

B indicates that the power supply of the EUT was interrupted during the test, and the EUT was restarted. After the test, it can automatically return to normal use.

13 - SURGES

Test System Setup



Test Level

Level	Open Circuit Output Test Voltage $\pm 10\%$
1	0.5 kV
2	1 kV
3	2 kV
4	4 kV
X	Special

Performance Criterion: B

Test Procedure

- 1) For line to line coupling mode, provide a 0.5 kV 1.2/50us voltage surge (at open-circuit condition).
- 2) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 3) Different phase angles are done individually.
- 4) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

Test Data

Please refer to following tables:

Test Mode: M1

Note:

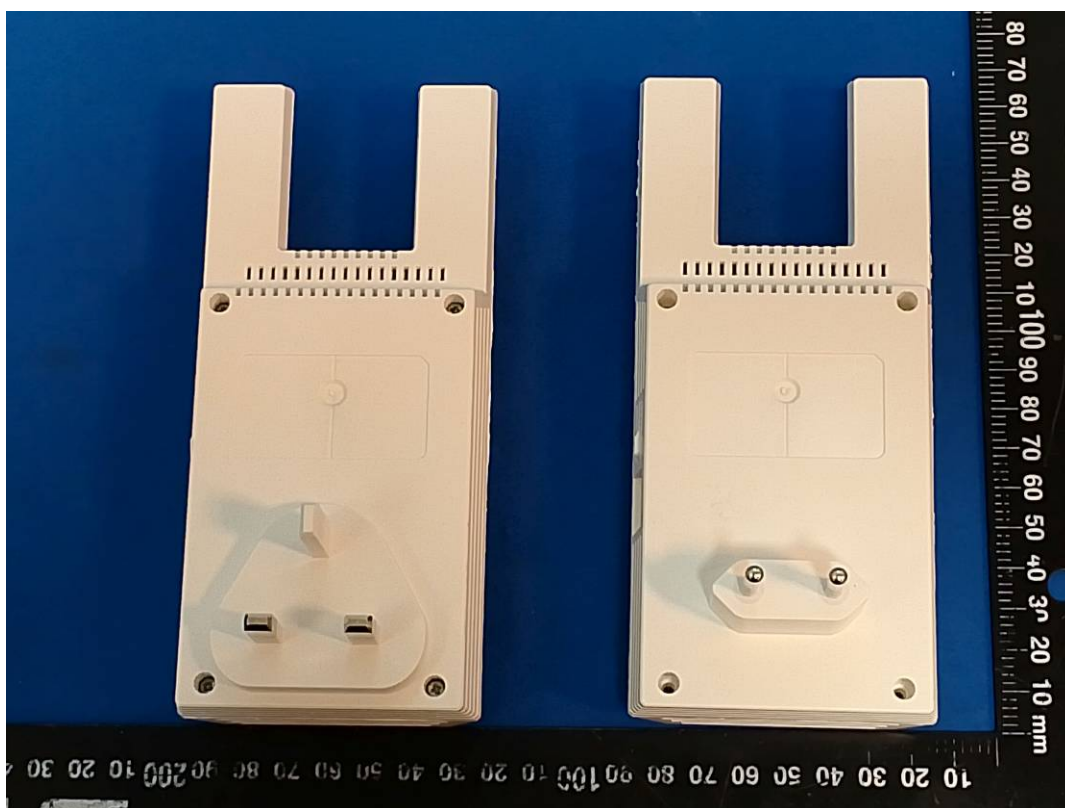
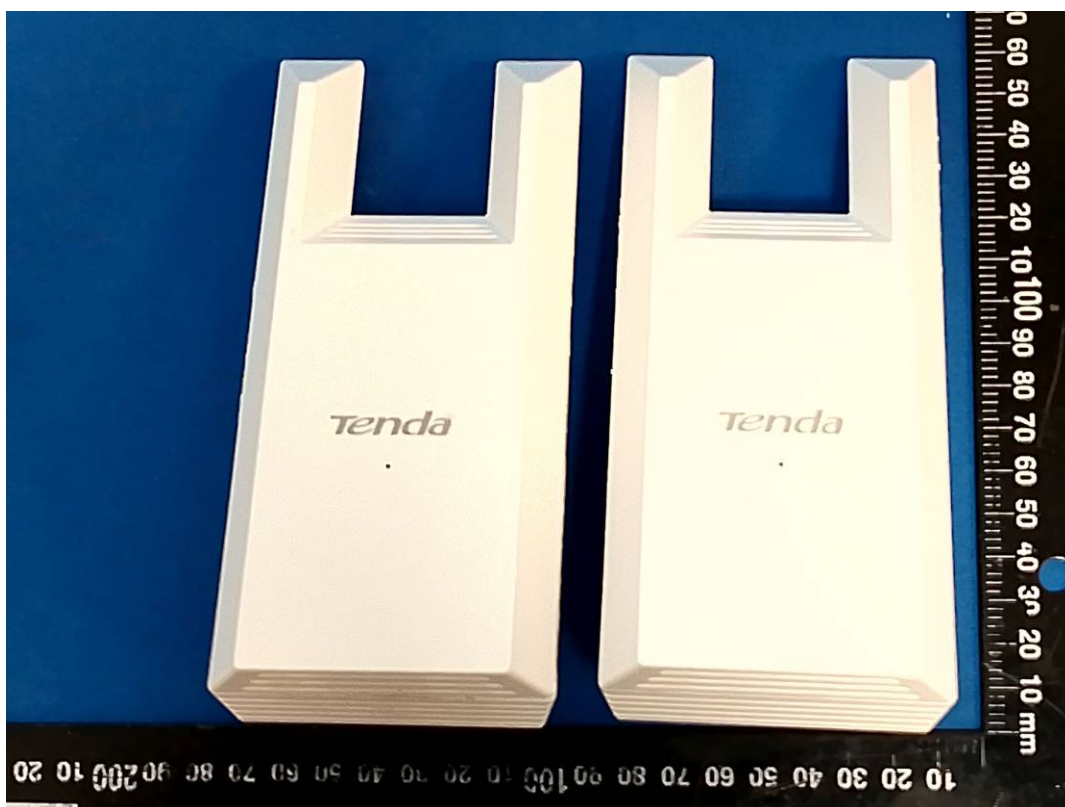
Table 1: AC mains power input port

No.	Voltage	Poll	Path	Phase Angle	Perform Criterion
1	0.5kV	+	L- N	0/90/180/270	A
1	0.5kV	-	L- N	0/90/180/270	A
2	1kV	+	L- N	0/90/180/270	A
2	1kV	-	L- N	0/90/180/270	A
Required Performance Criteria: B Description of Performance reduction: N/A					

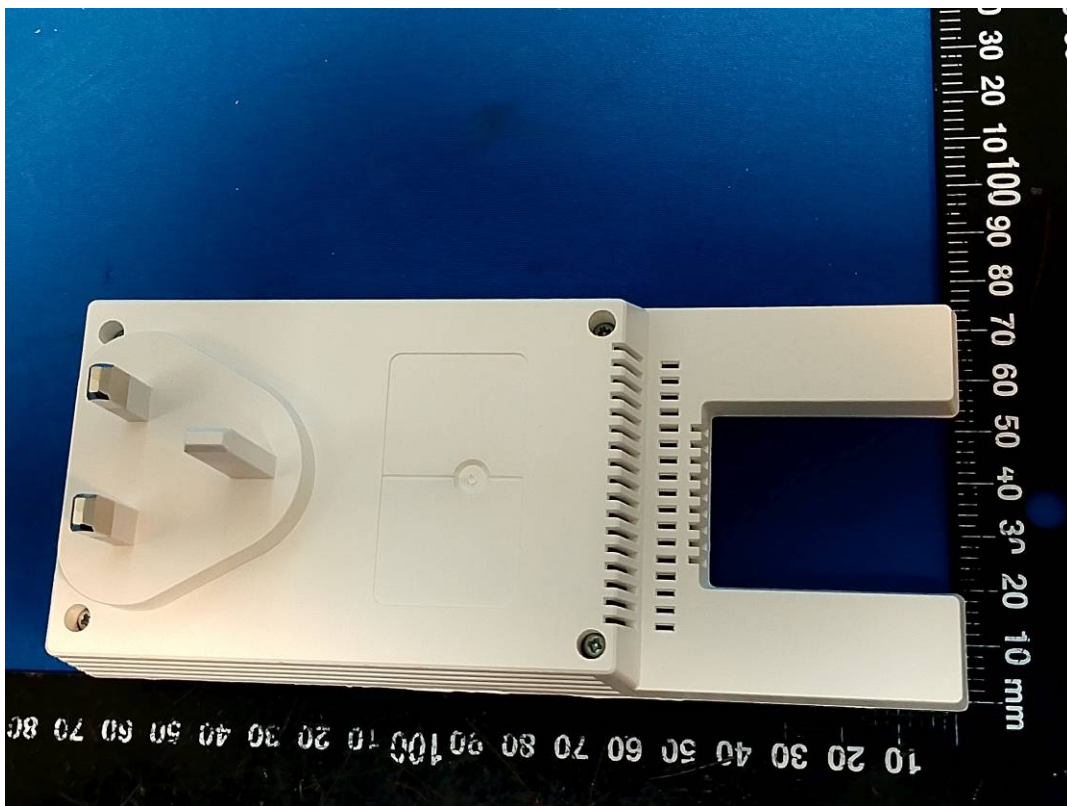
Table 2: RJ45 I/O Circuit and Lines

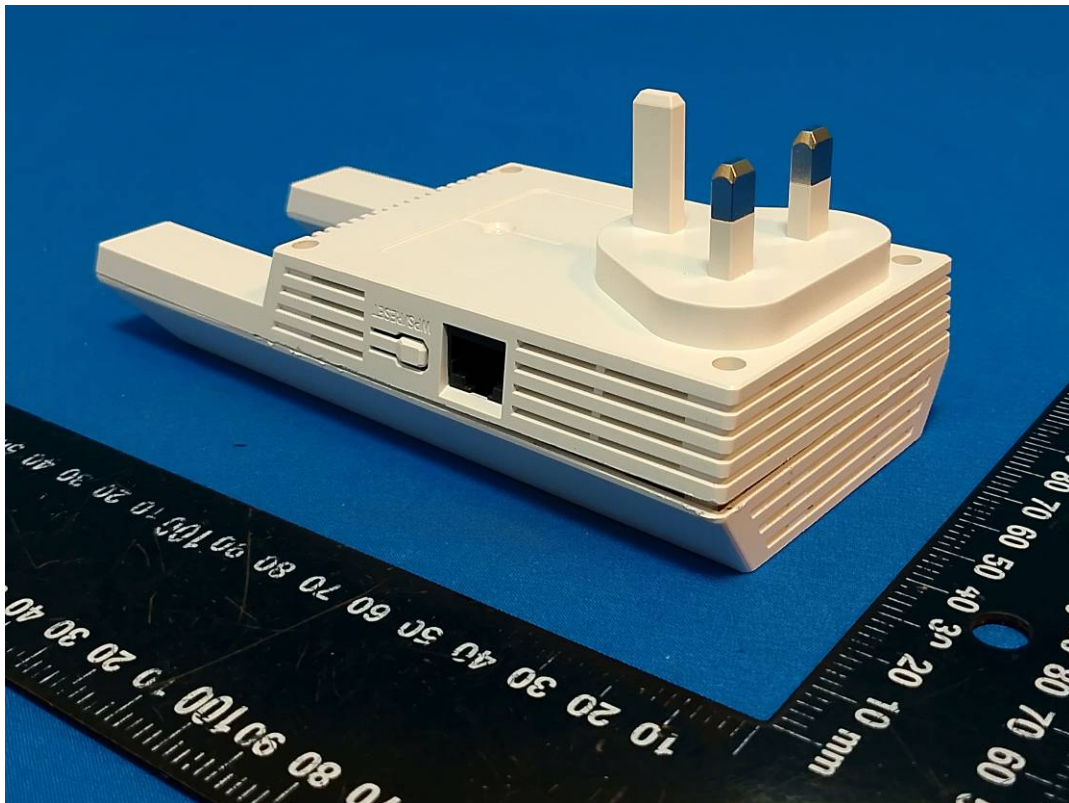
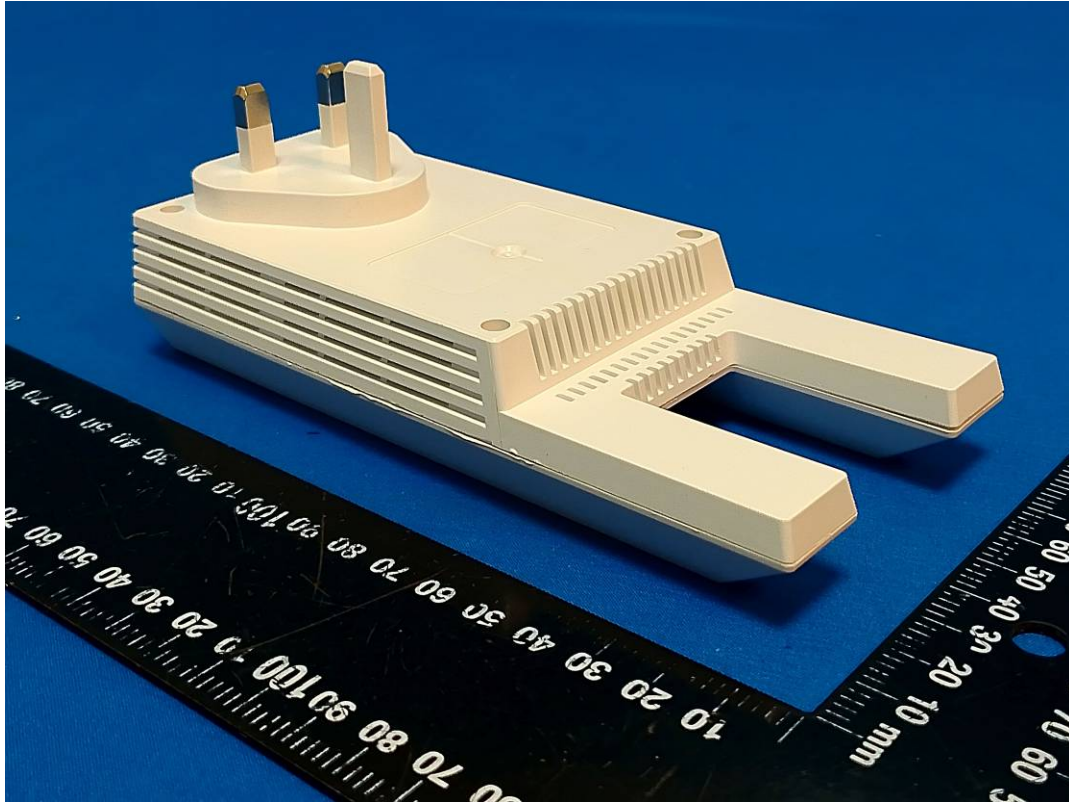
No.	Voltage	Poll	Path	Perform Criterion
1	0.5kV	±	Line-Ground	A
2	1kV	±	Line-Ground	A
Required Performance Criteria: C Description of Performance reduction: N/A				

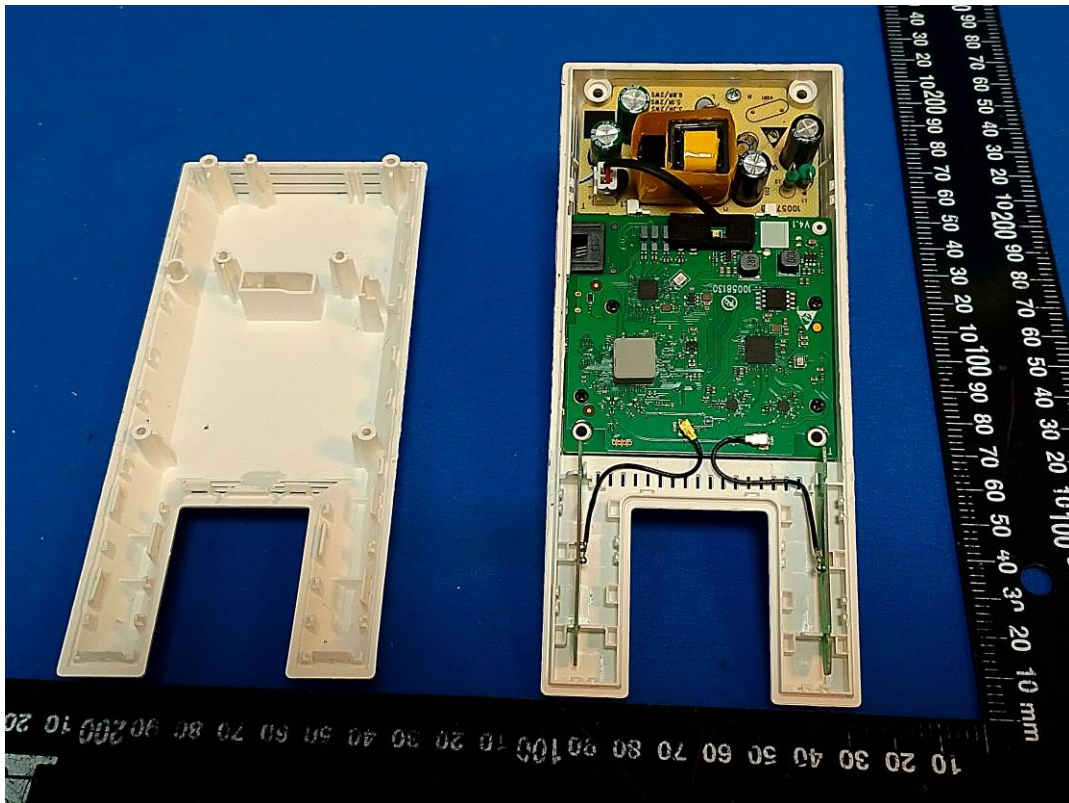
EXHIBIT A - EUT PHOTOGRAPHS

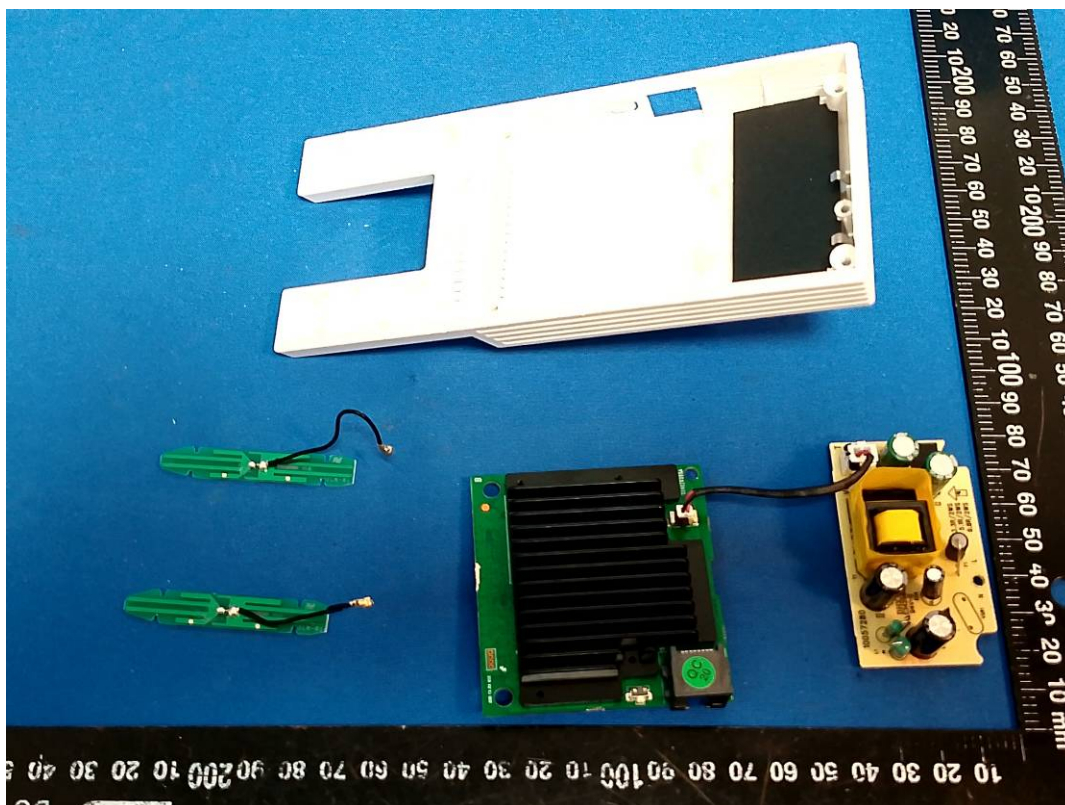
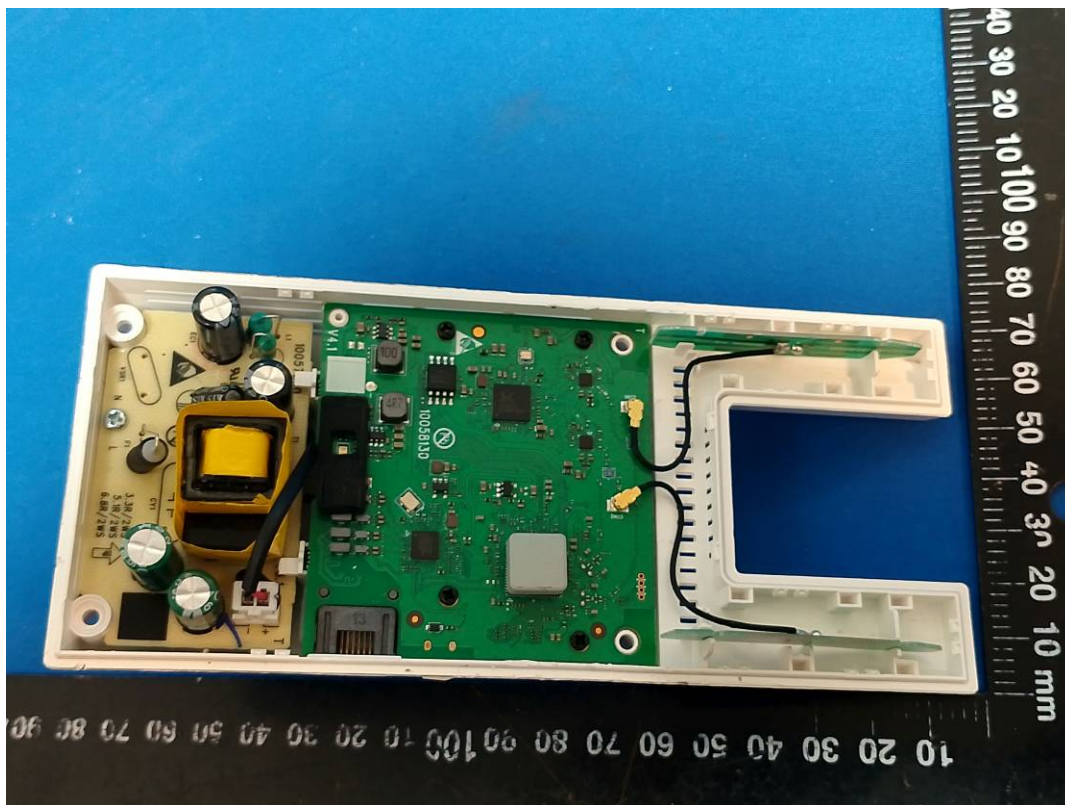


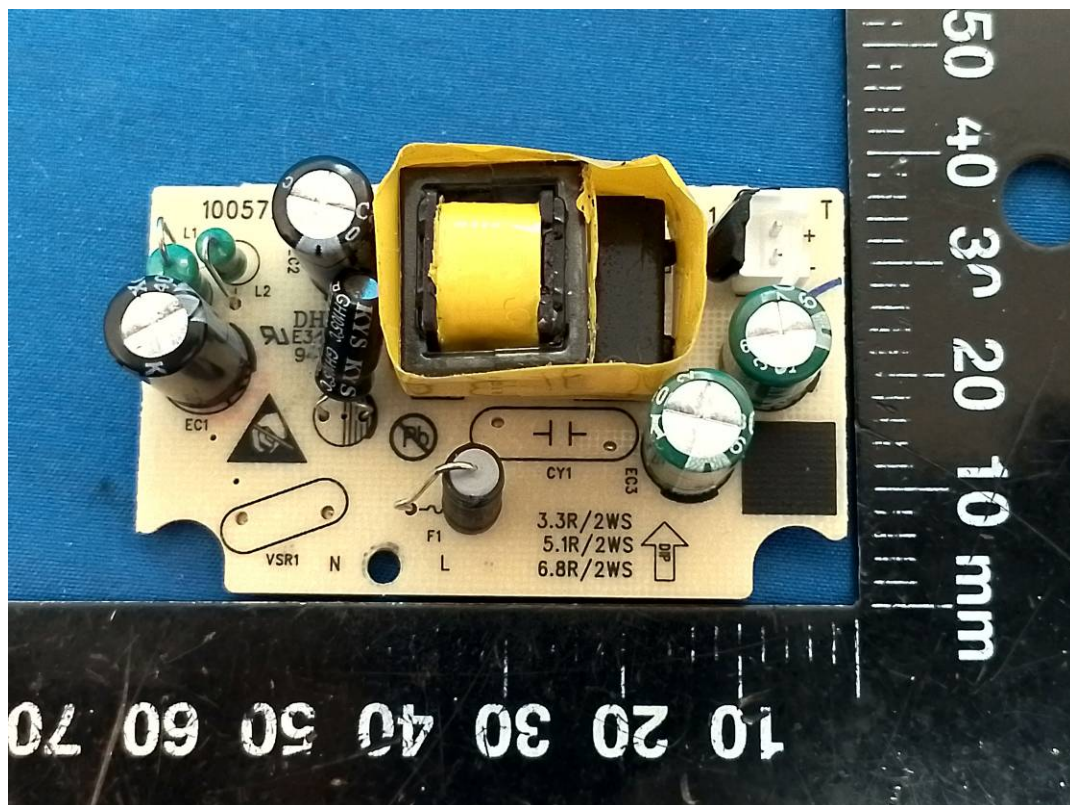
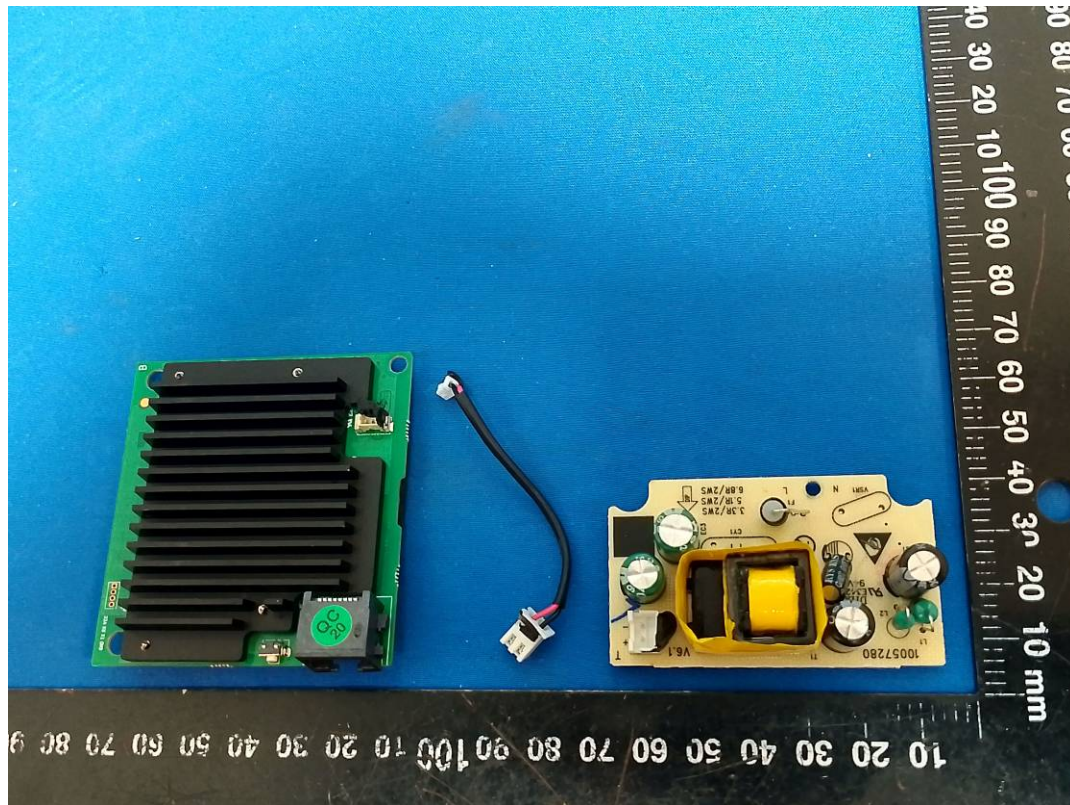
A18 Pro (BS)

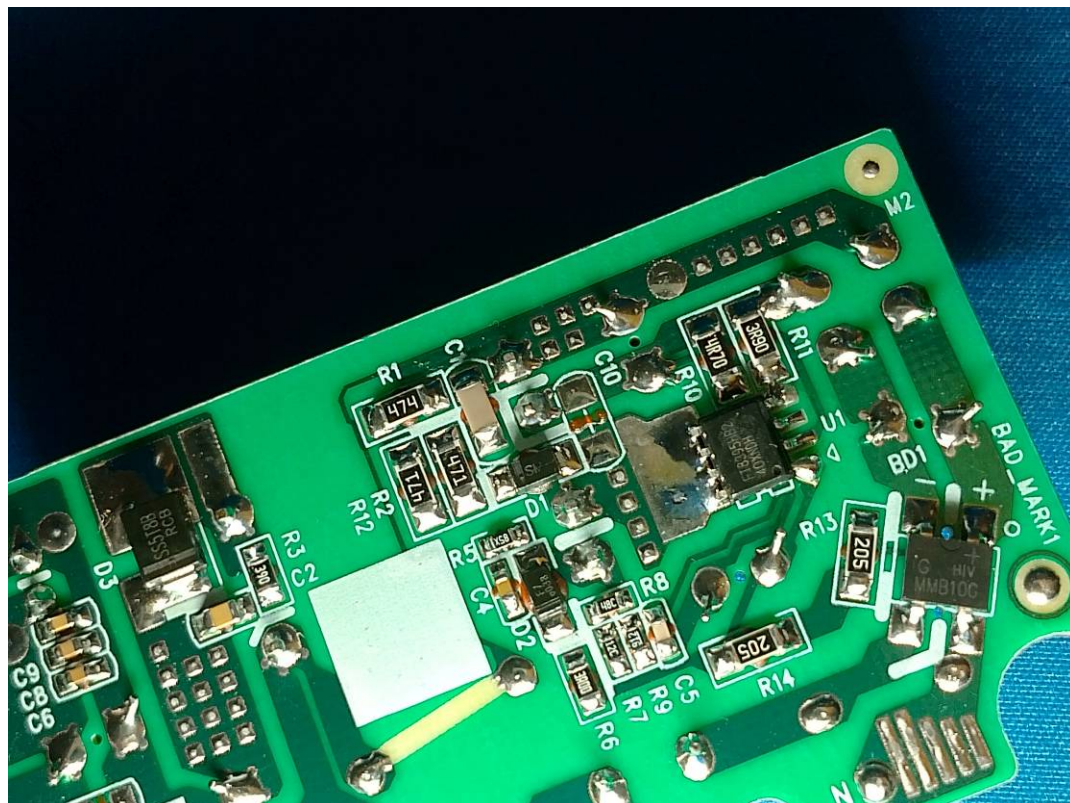
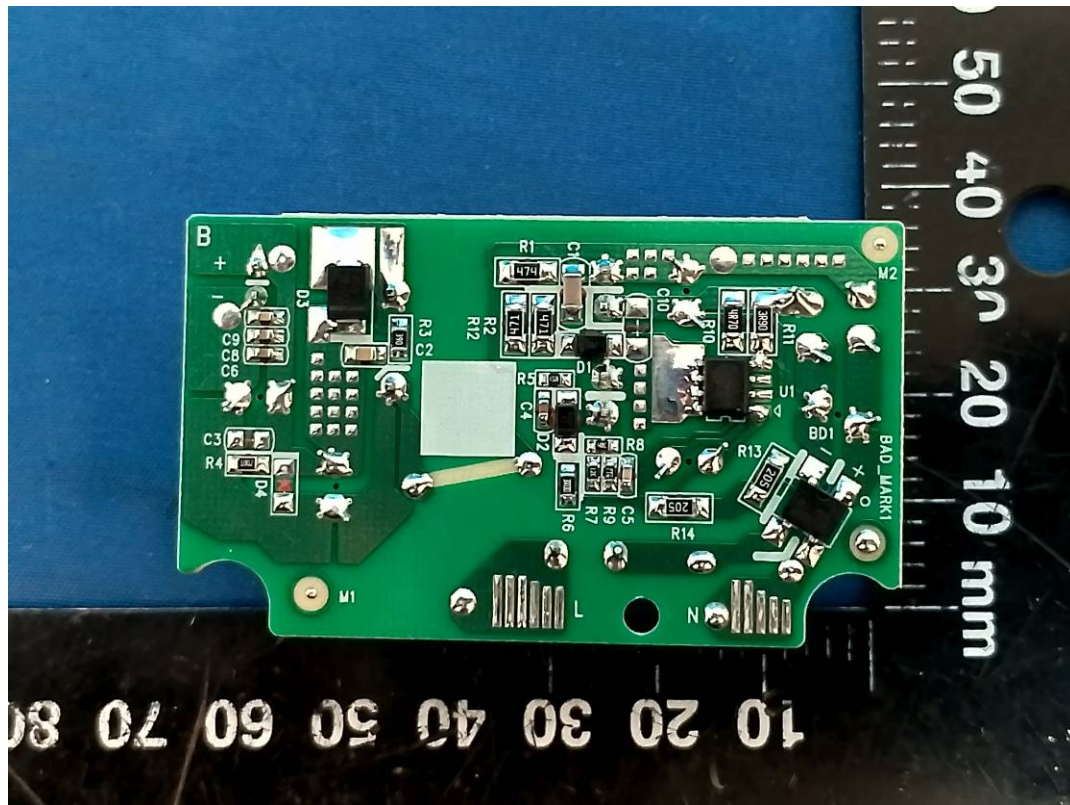


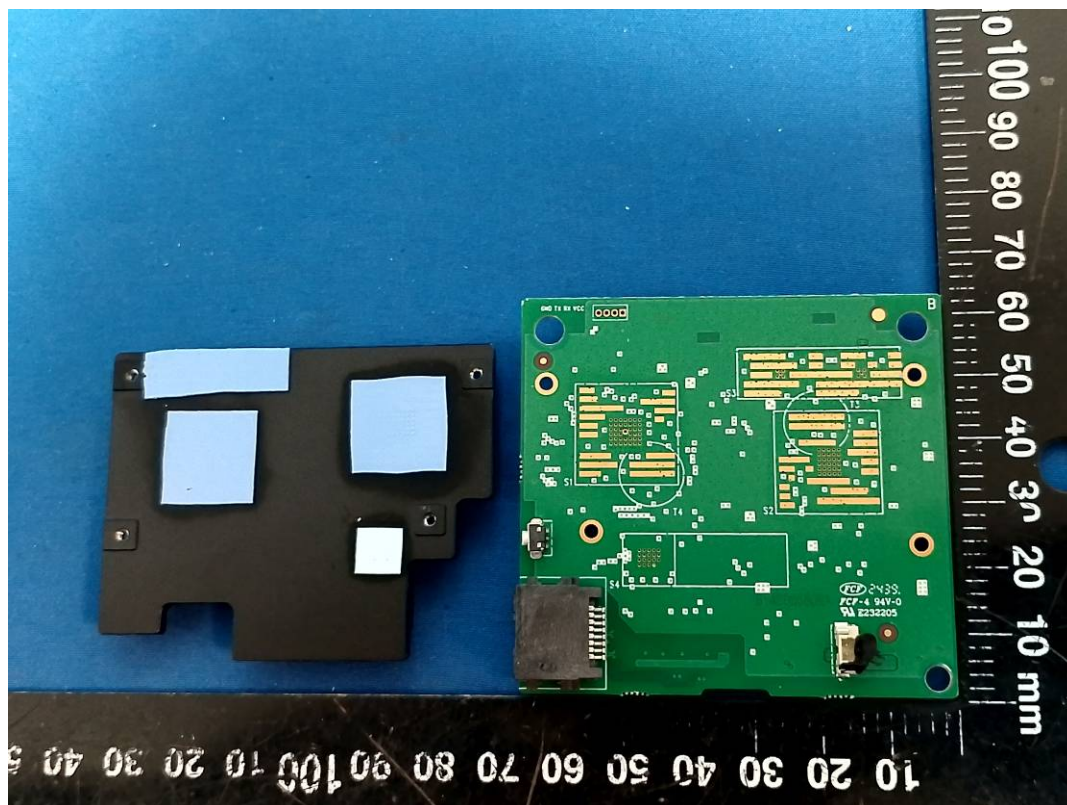
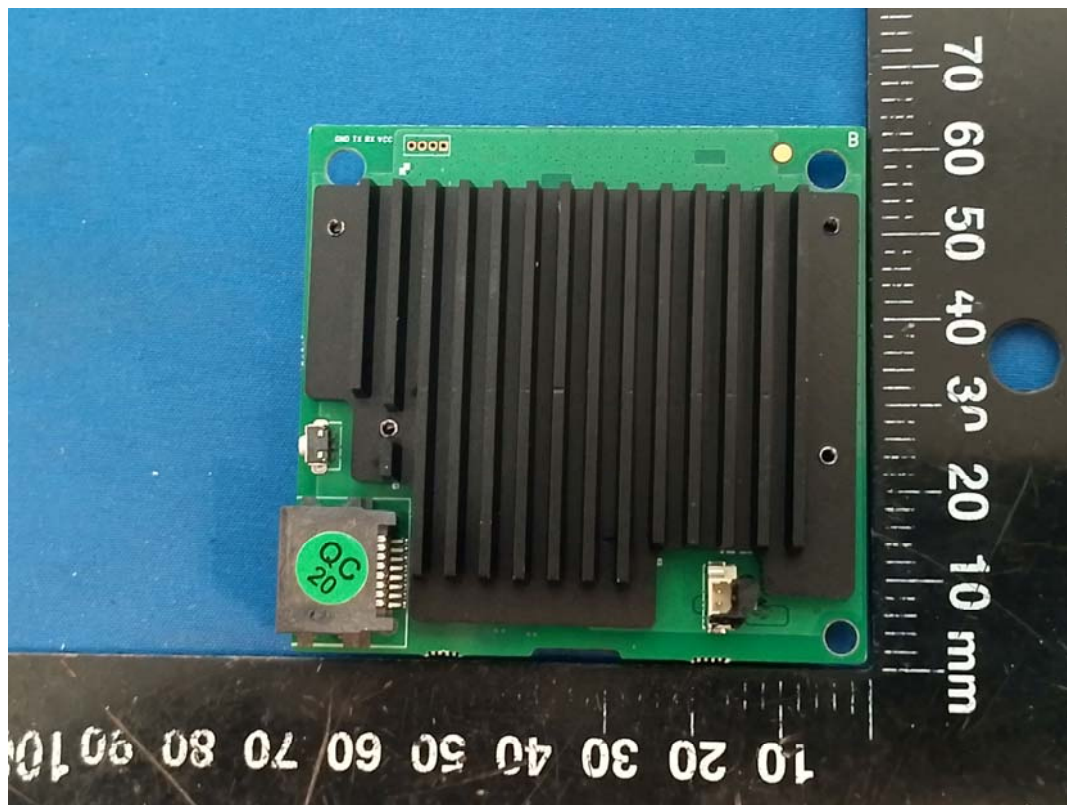


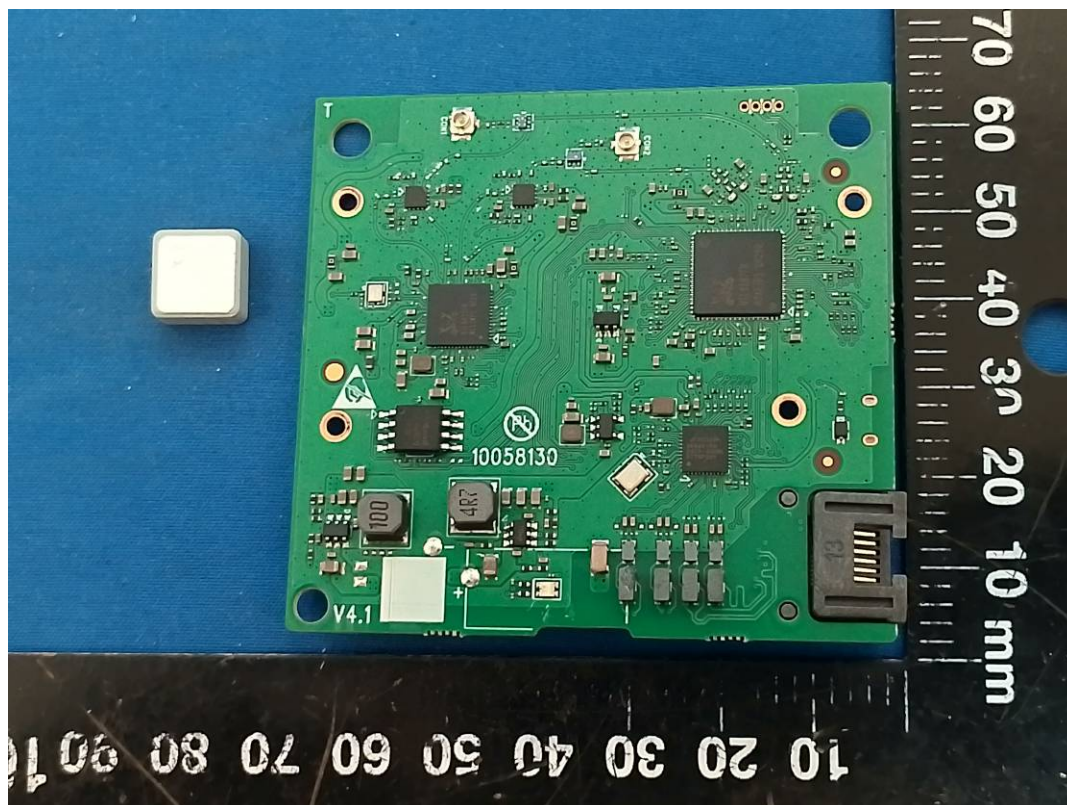
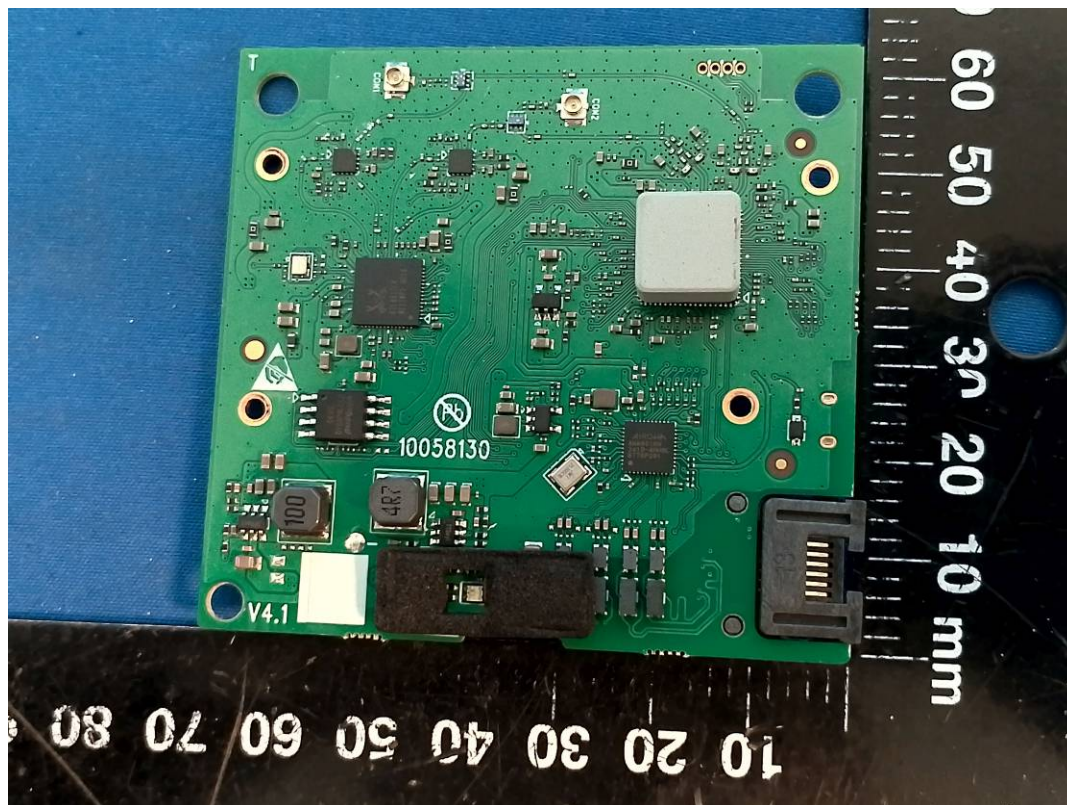


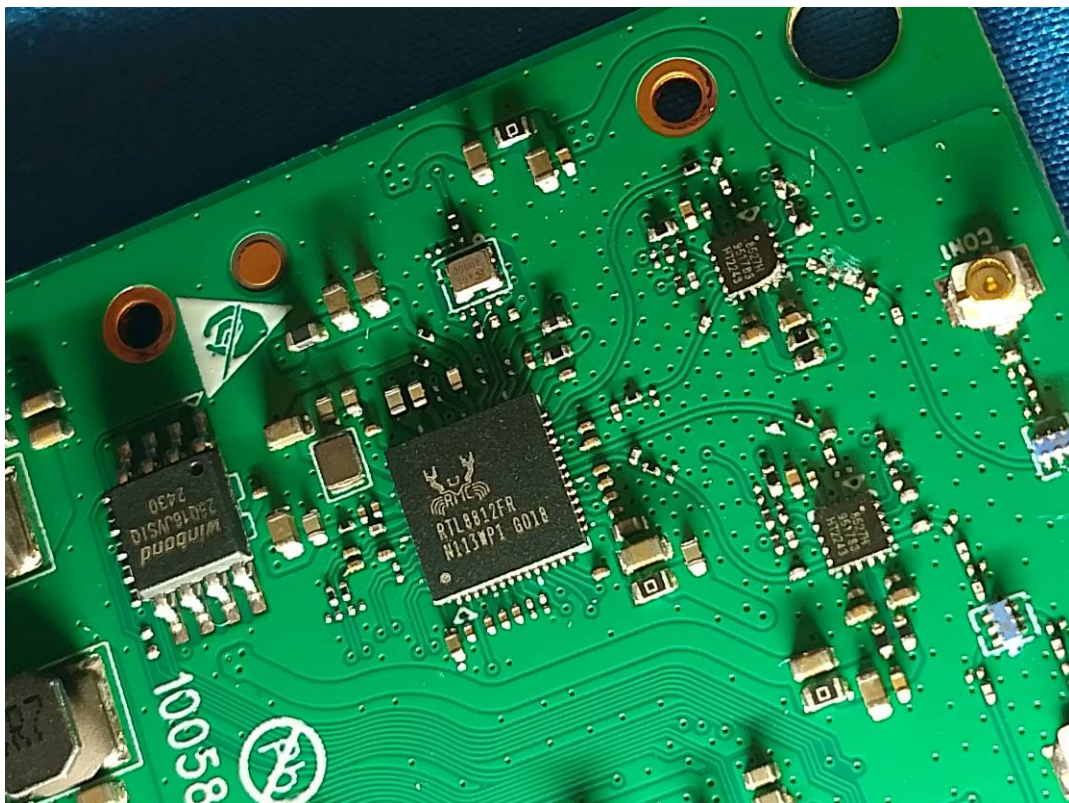
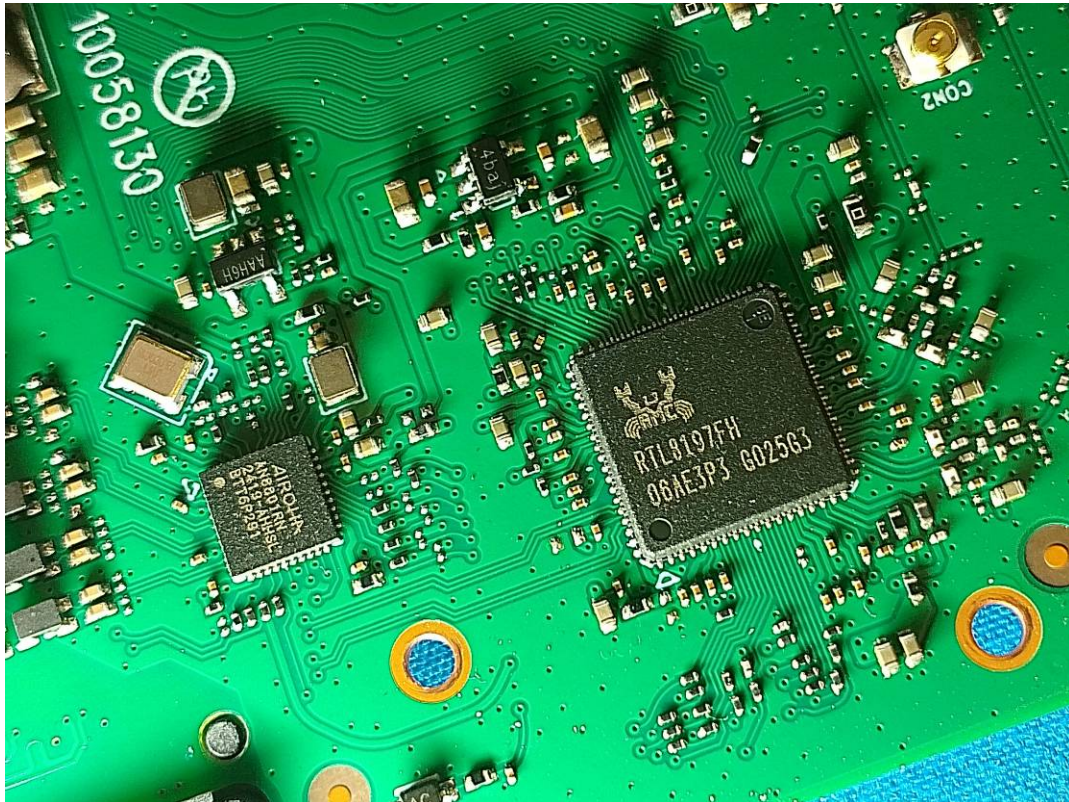


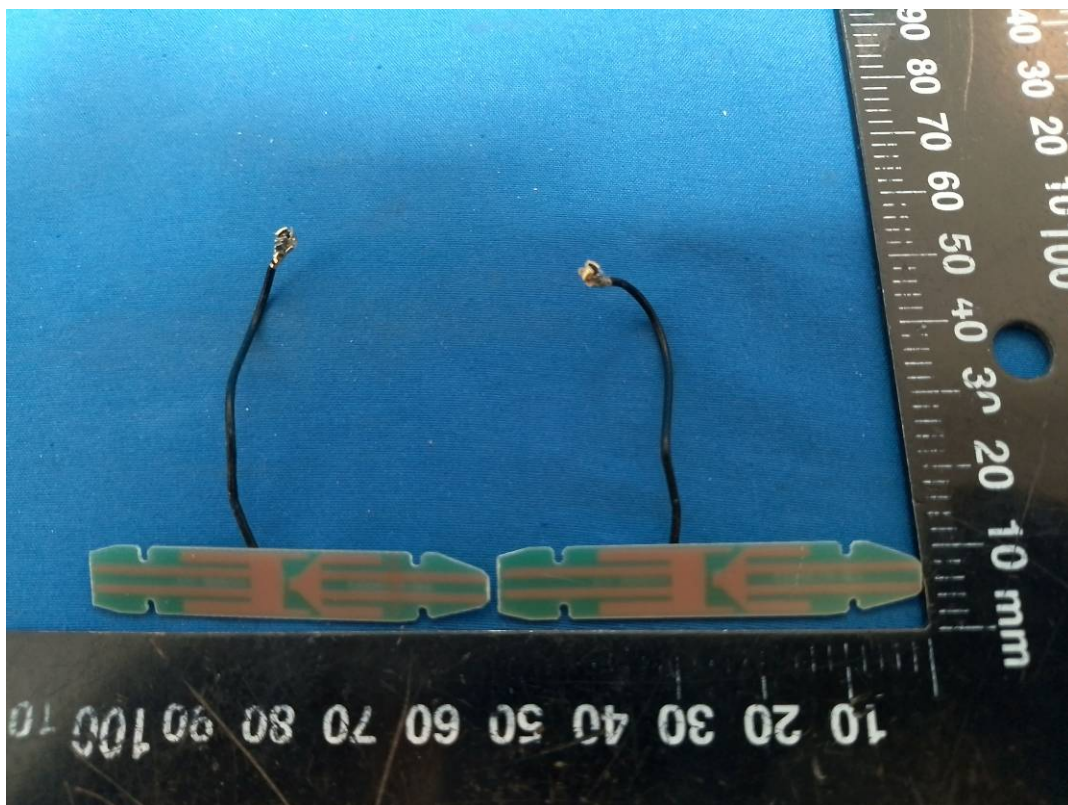
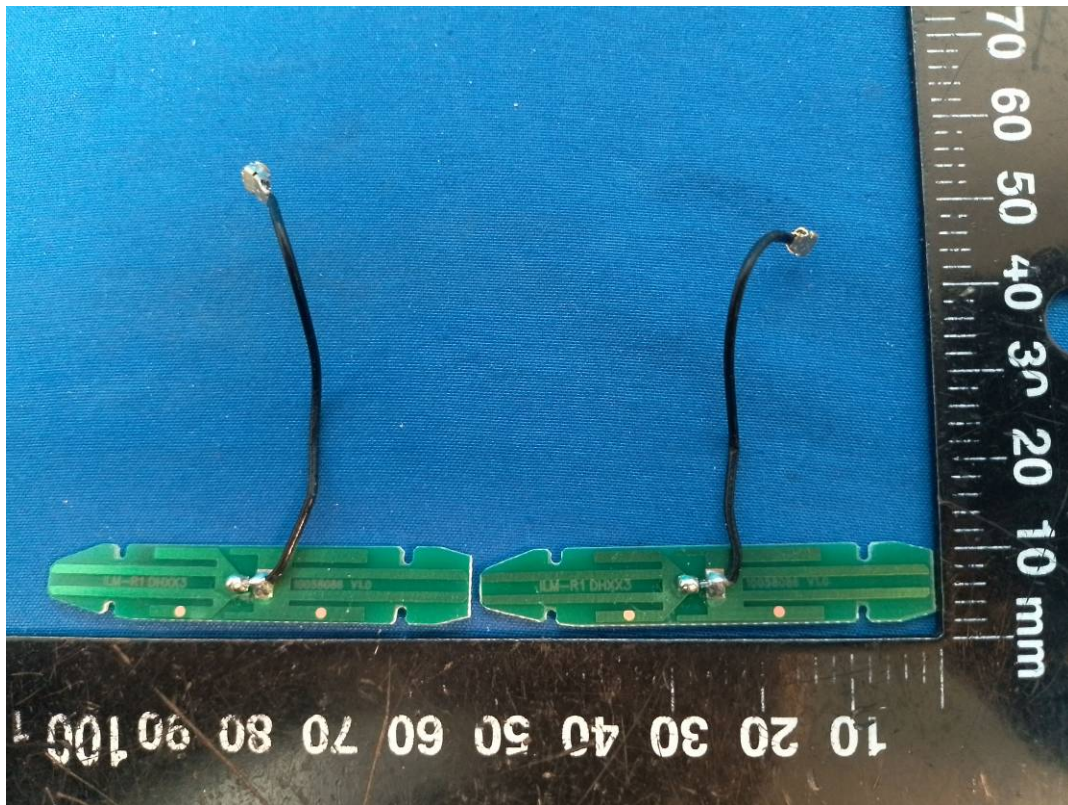






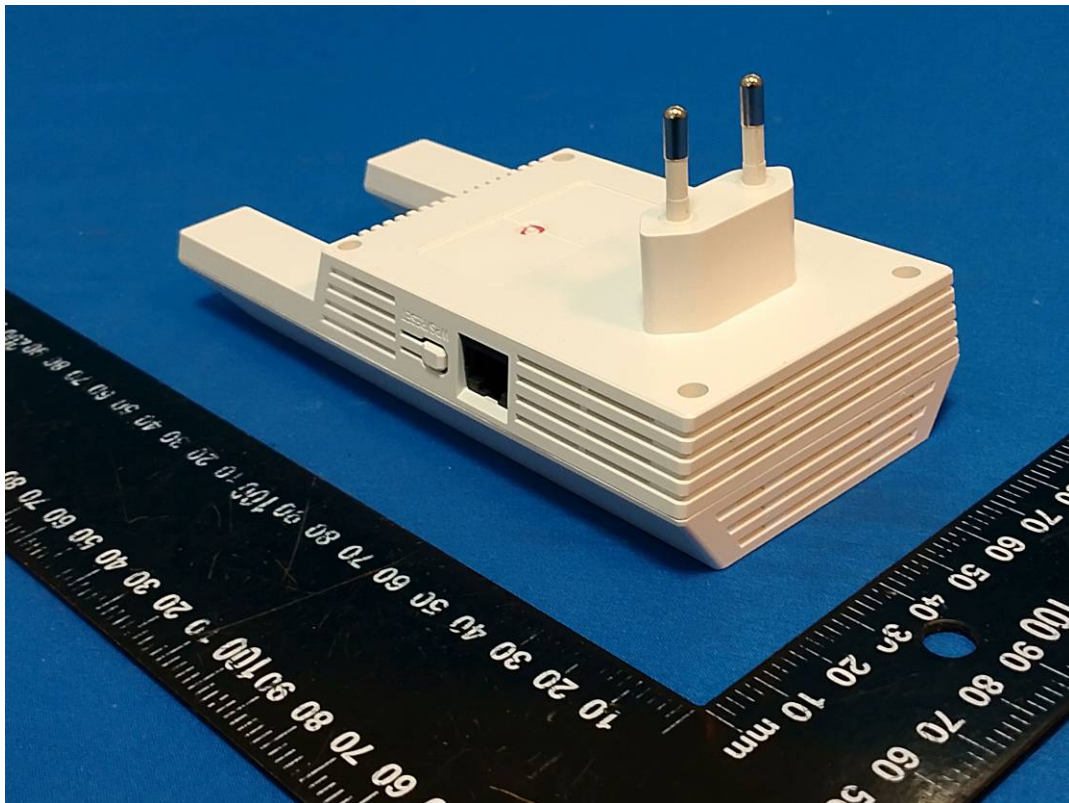
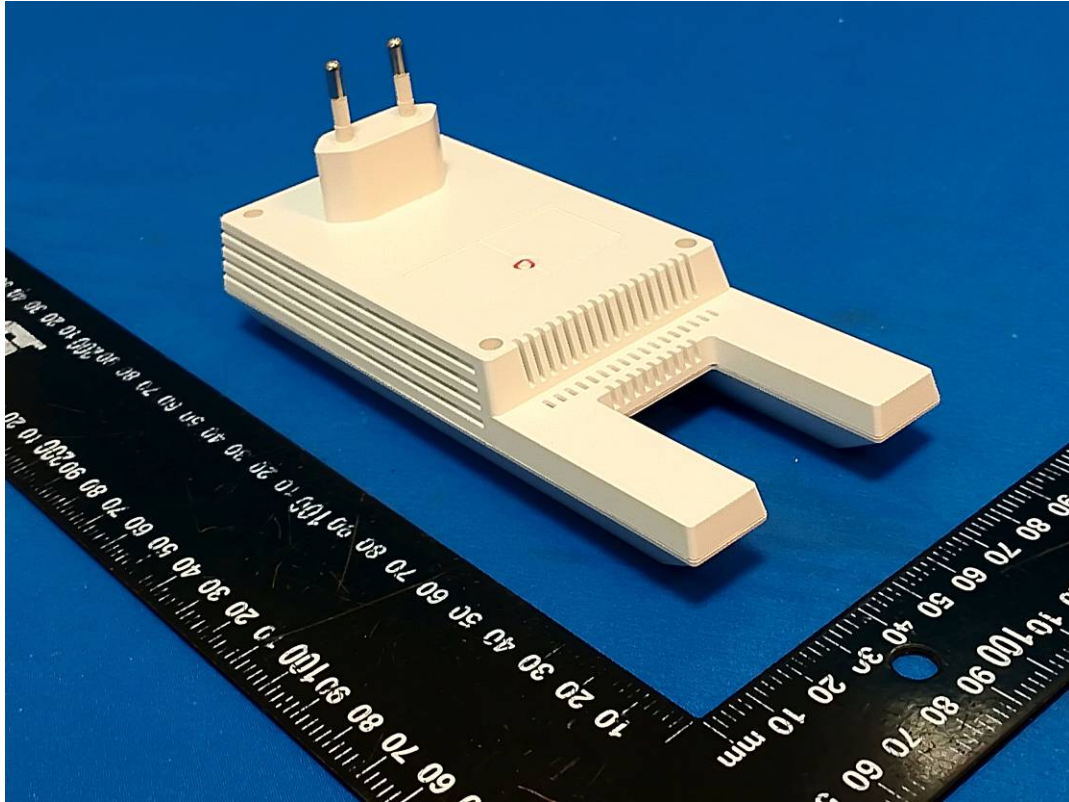


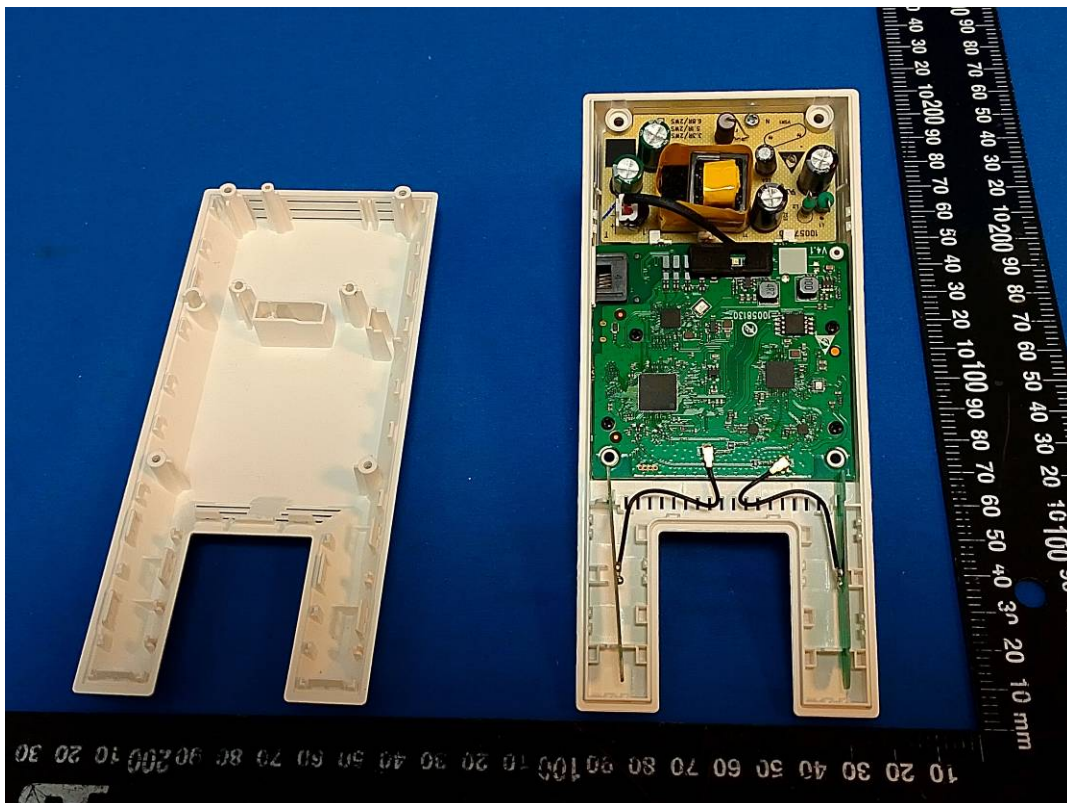


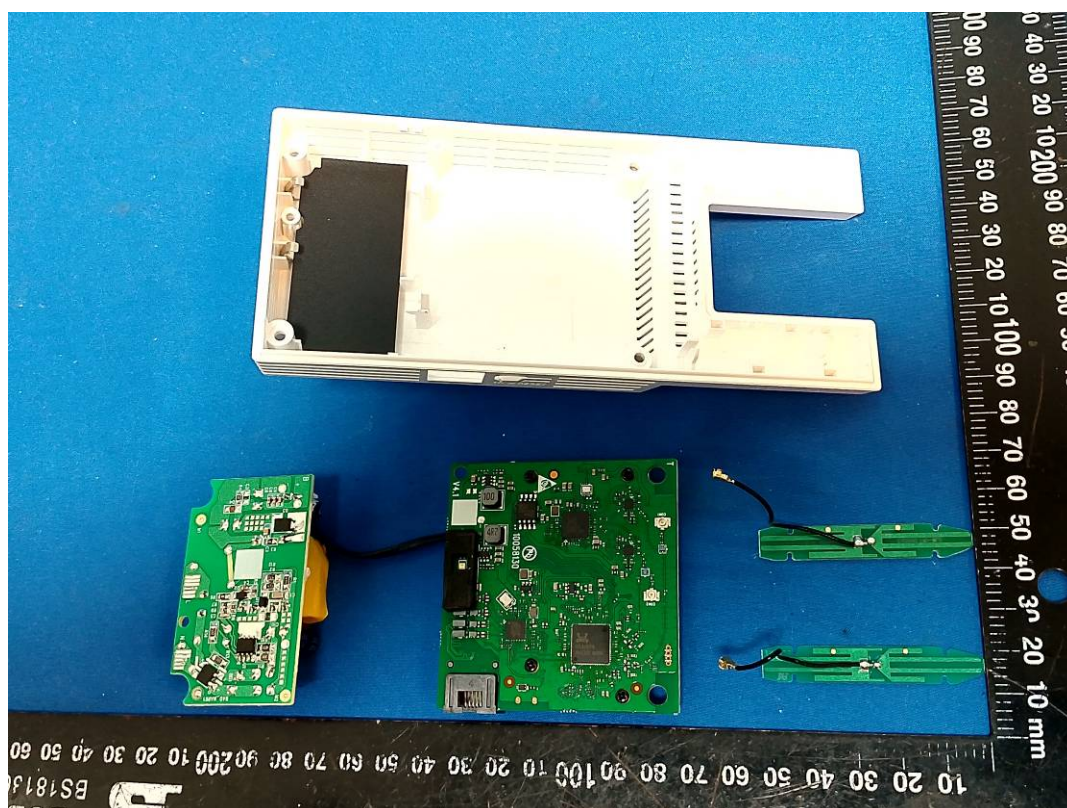
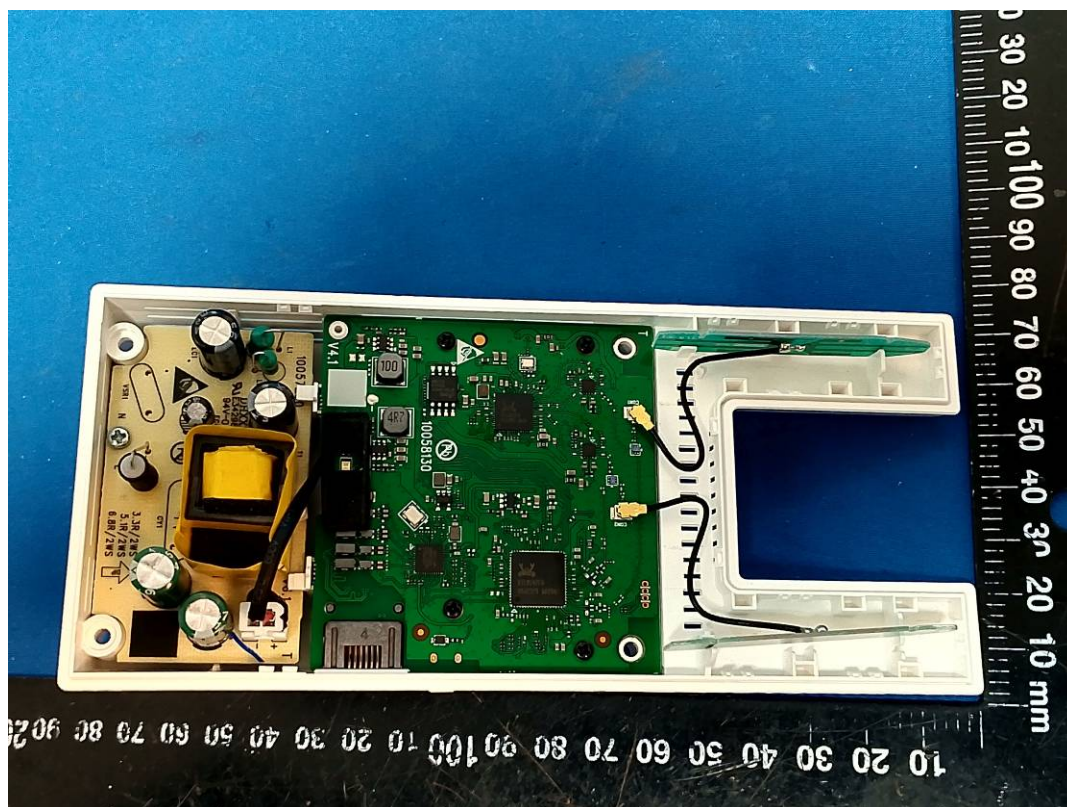


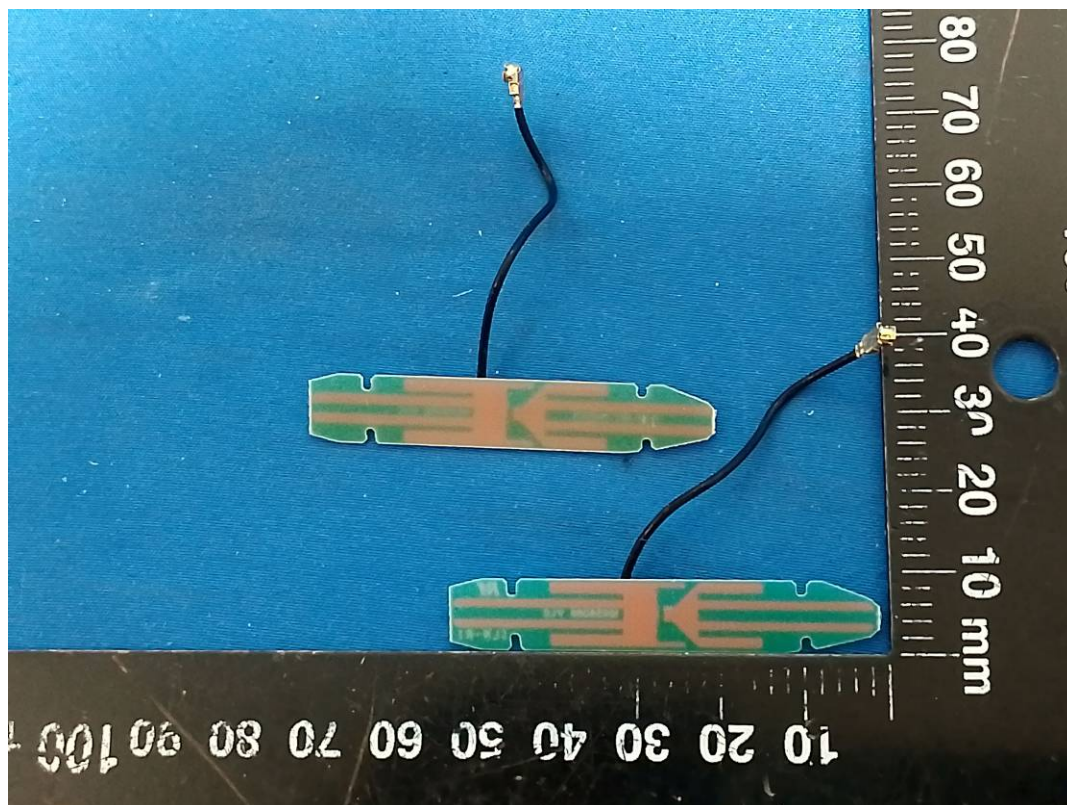
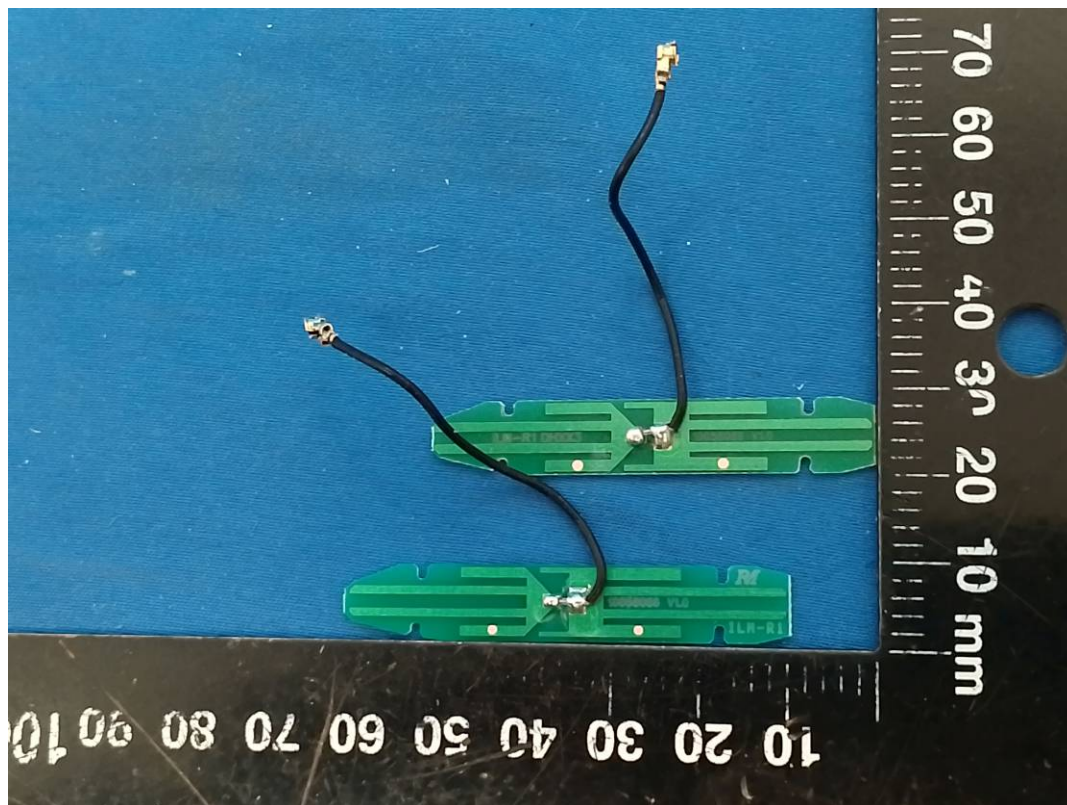
A18 Pro (EU)

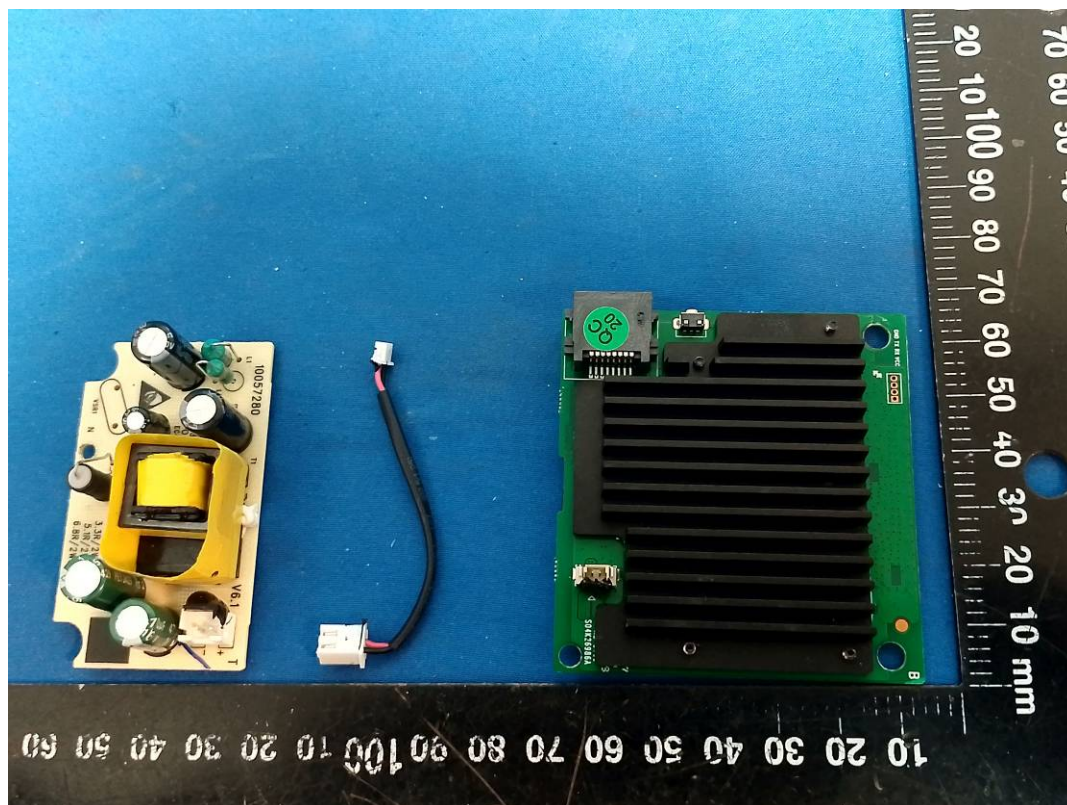
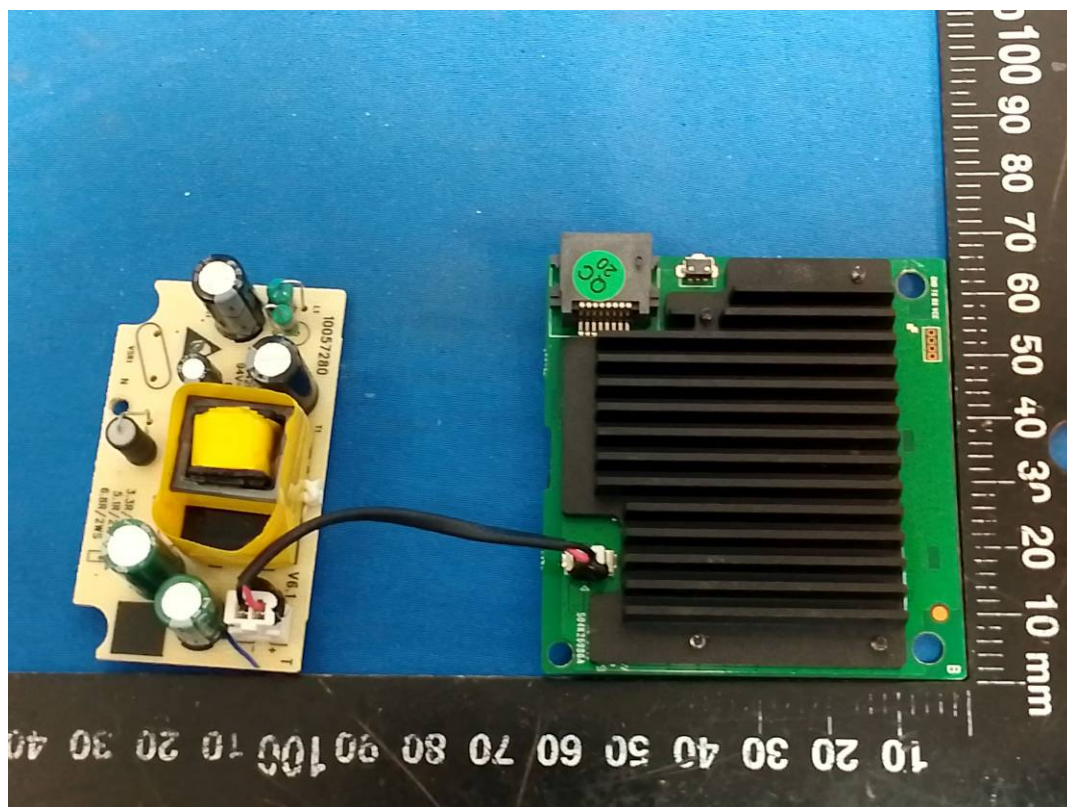


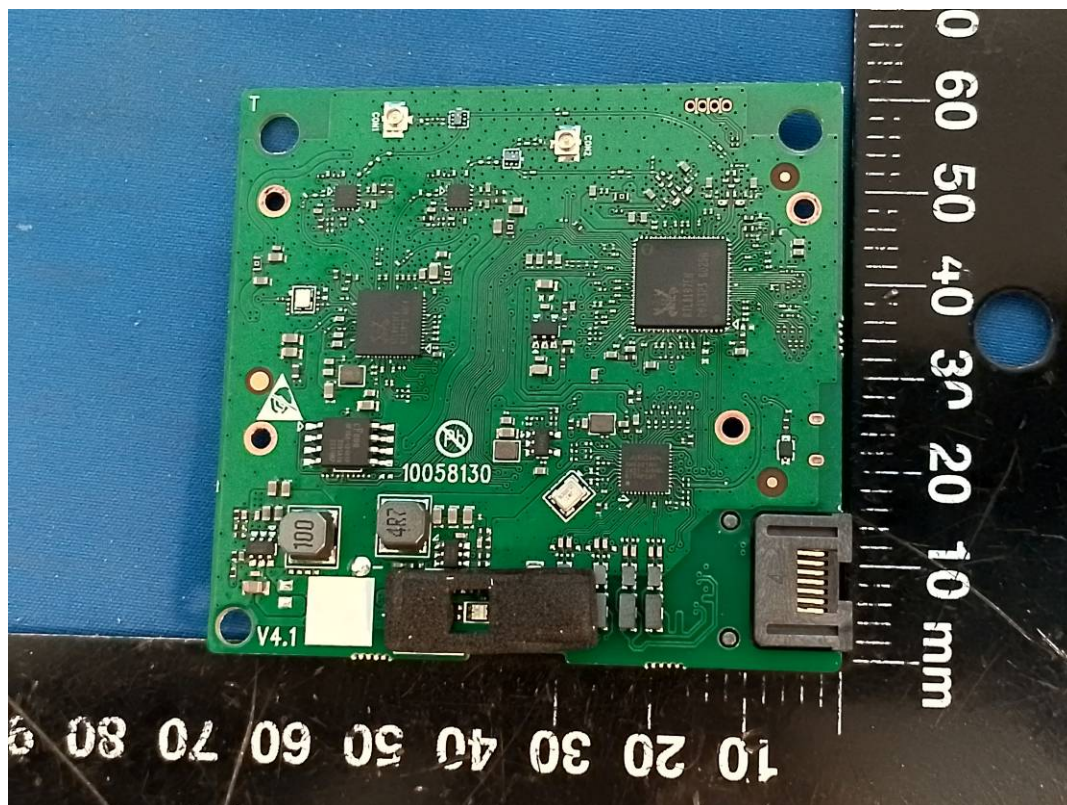
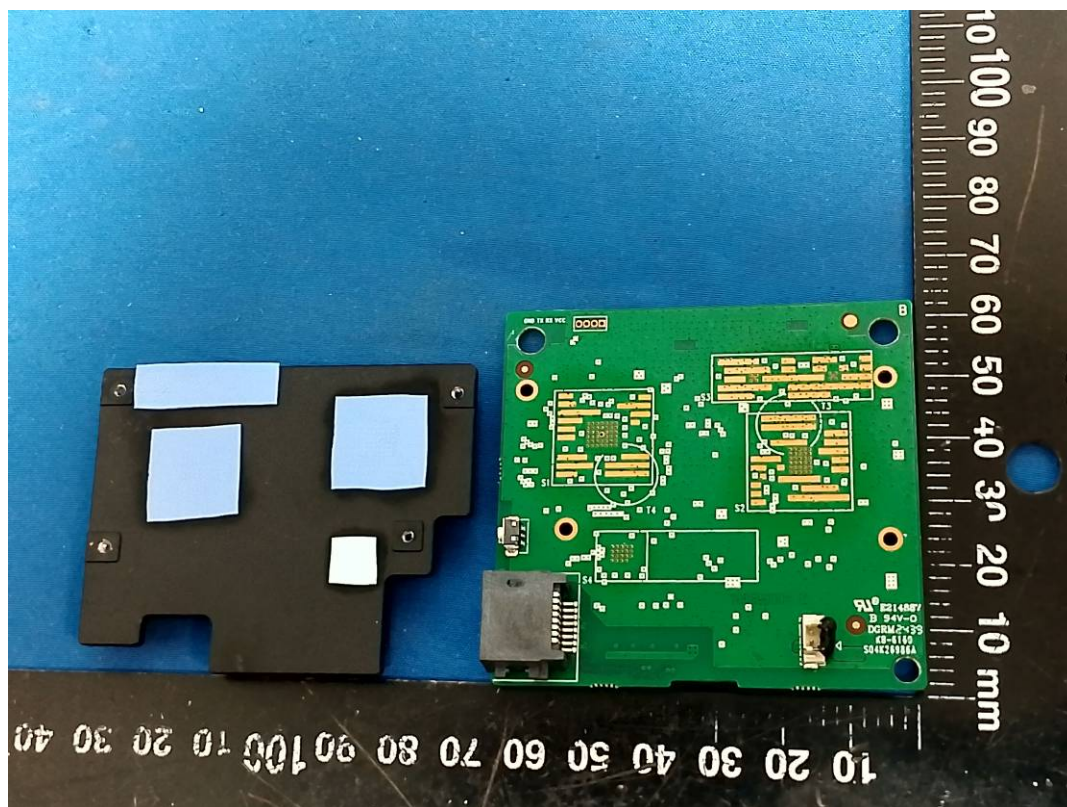


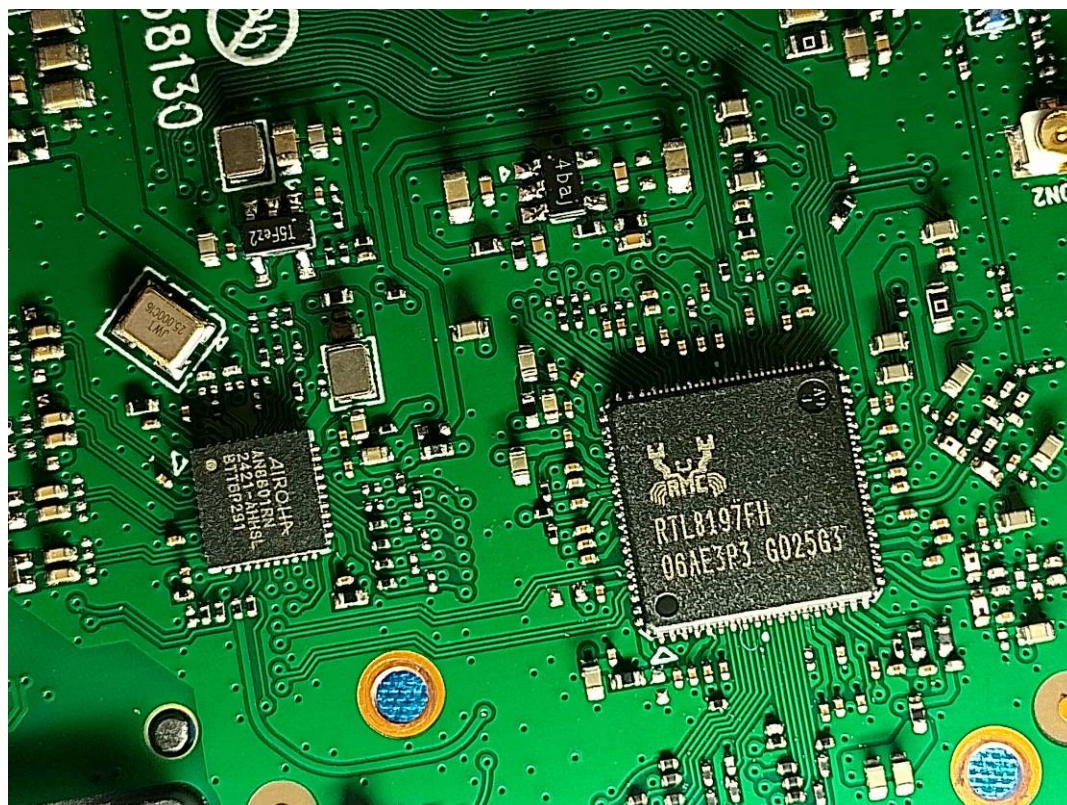
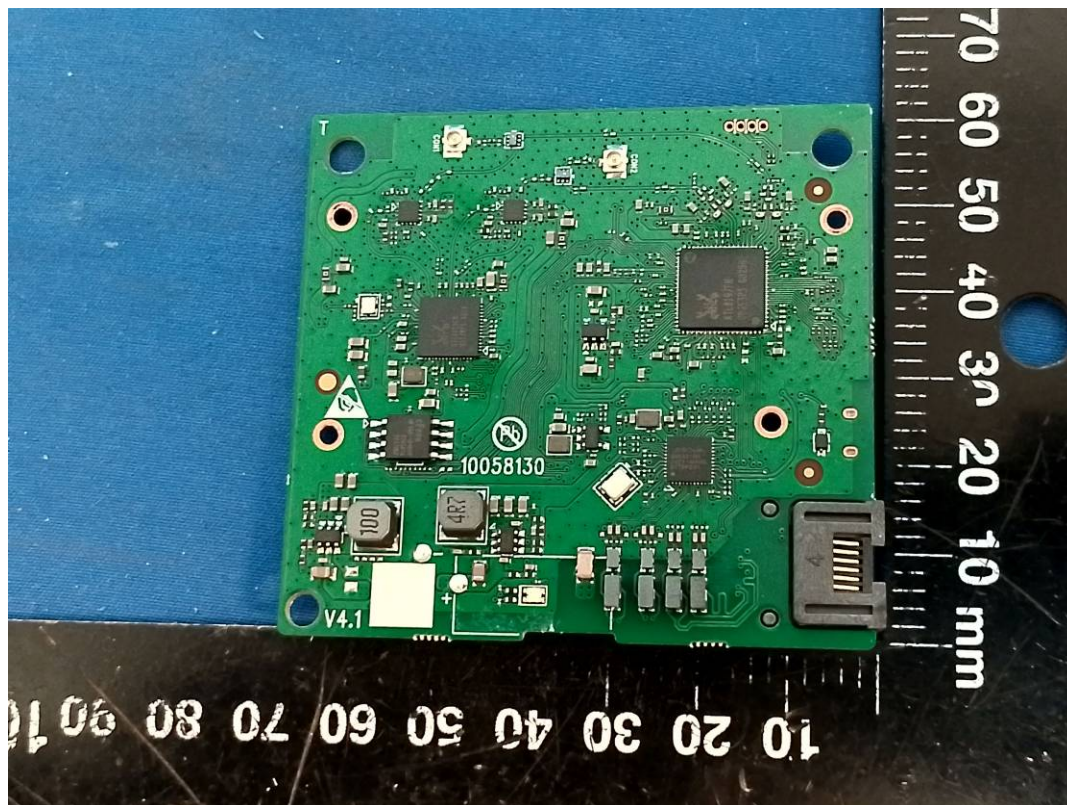


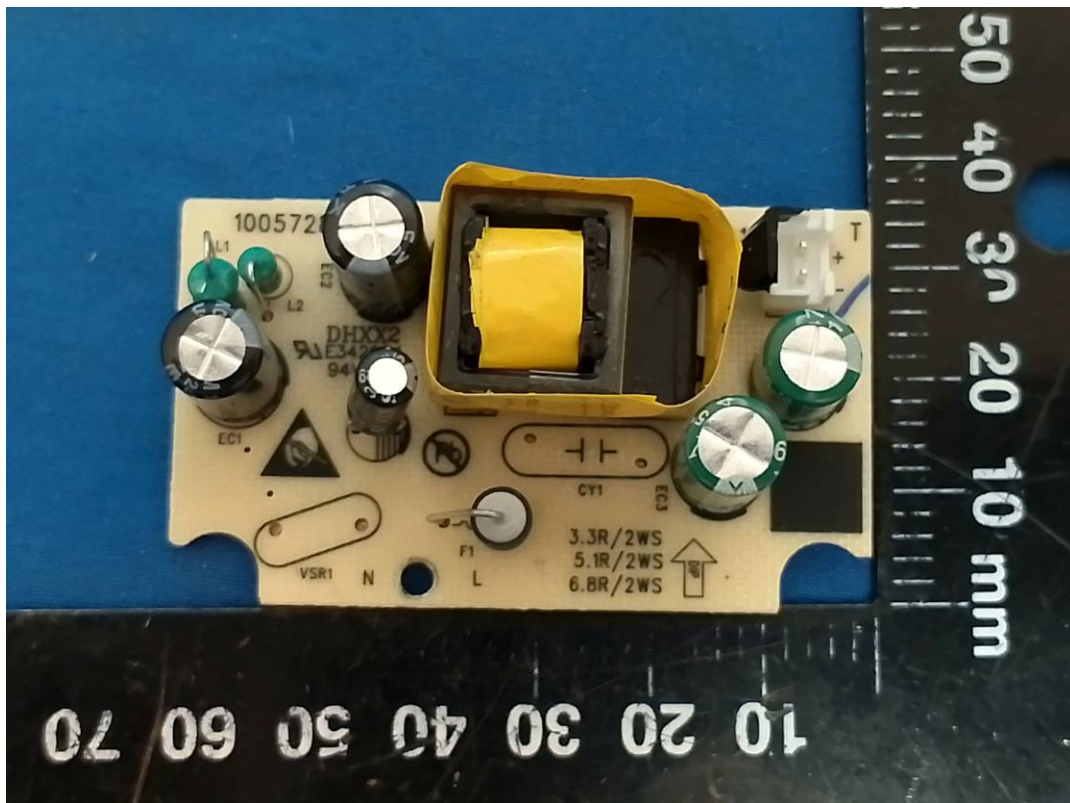
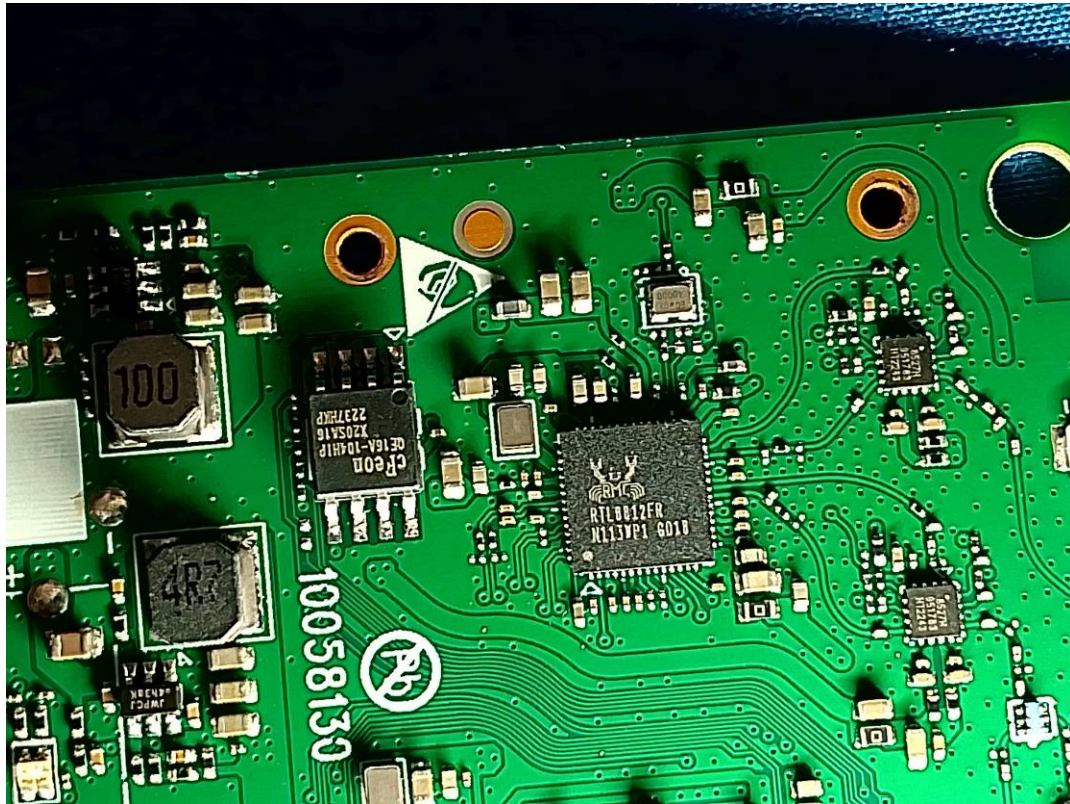


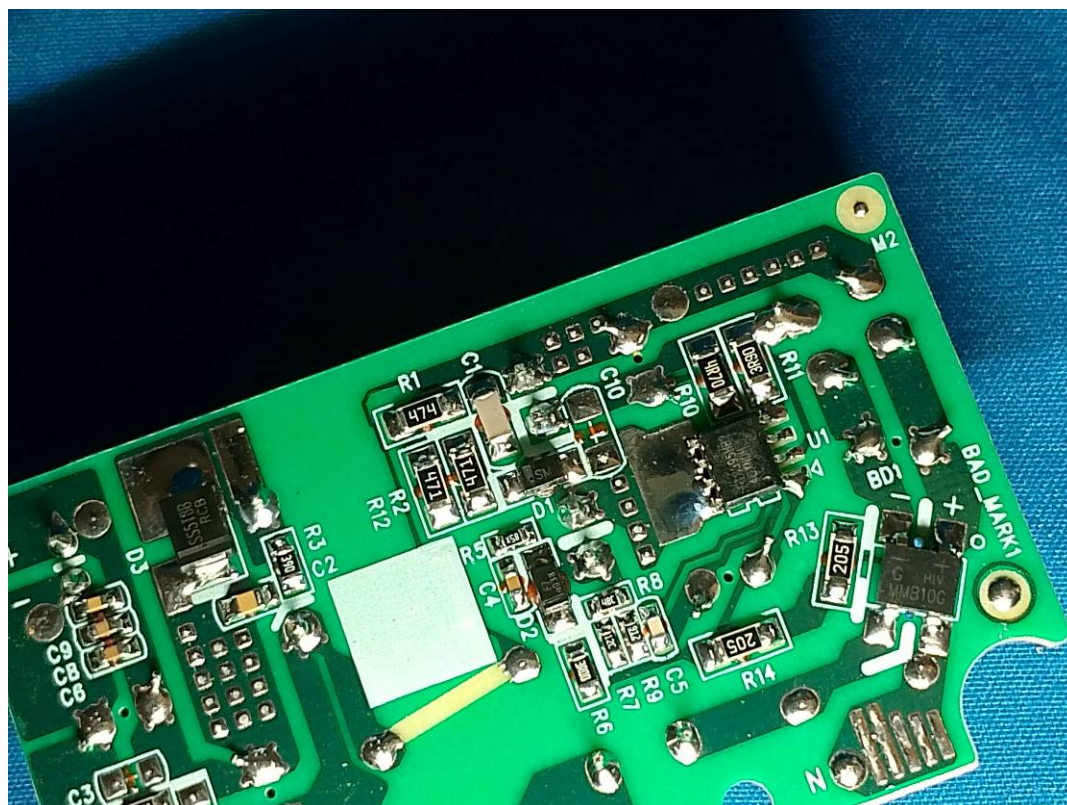
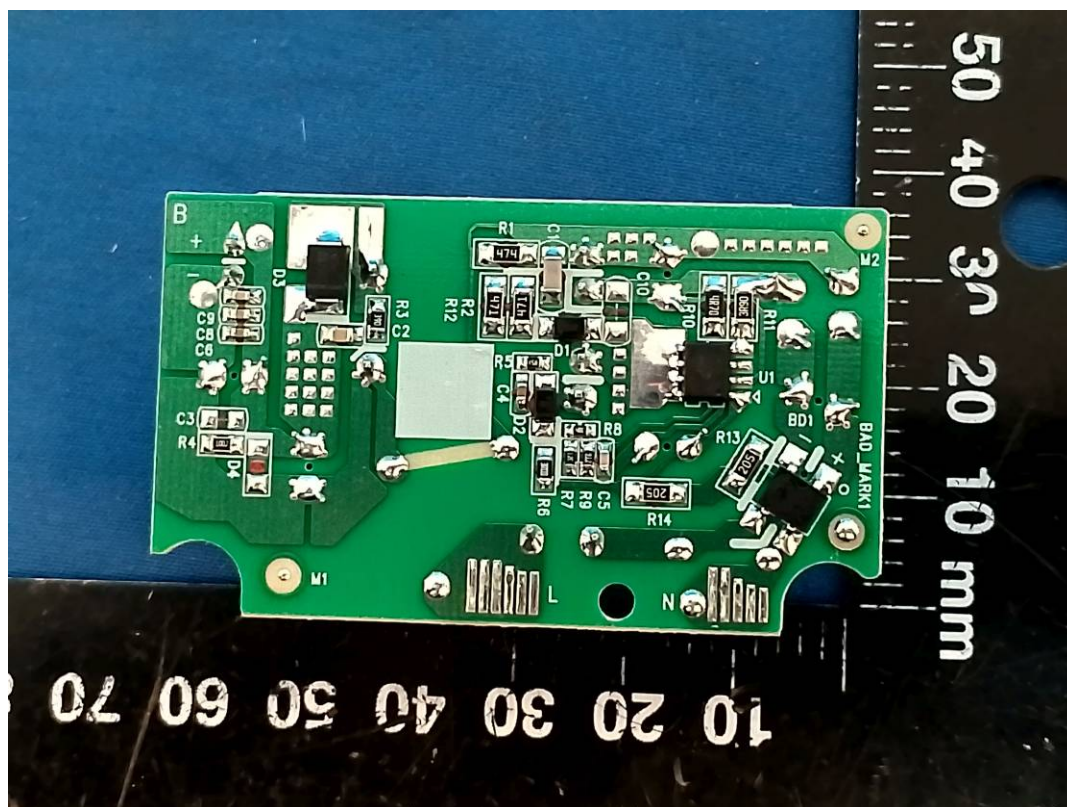




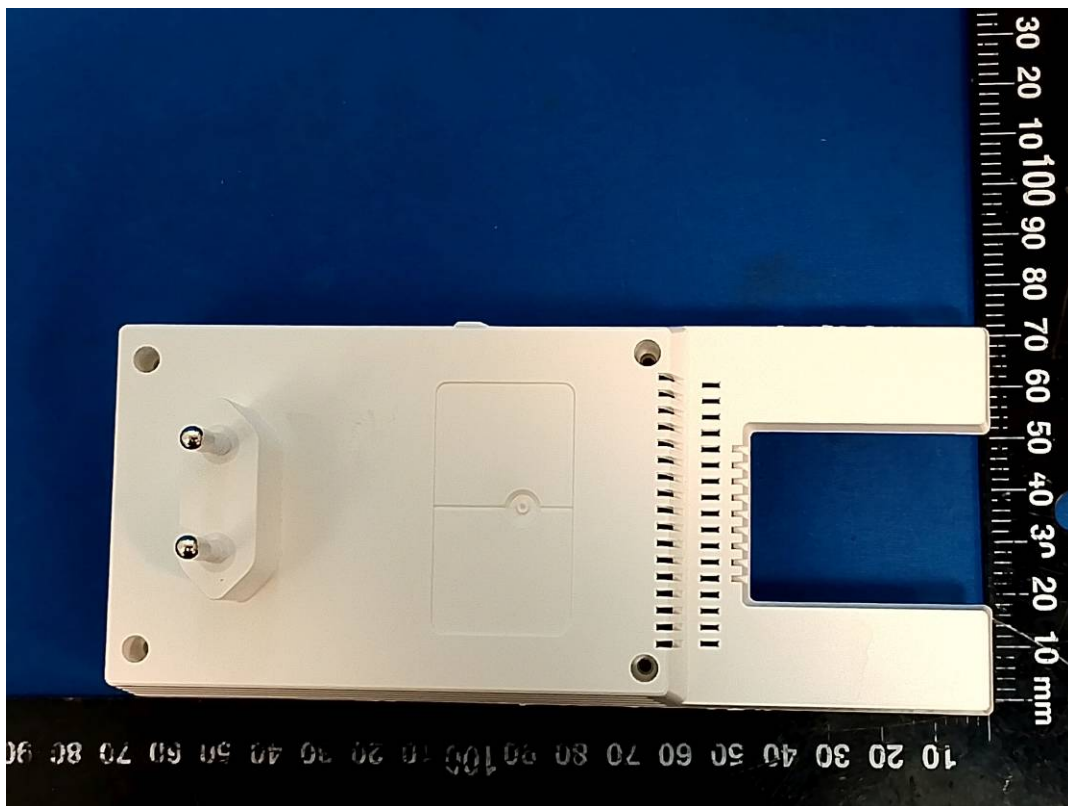


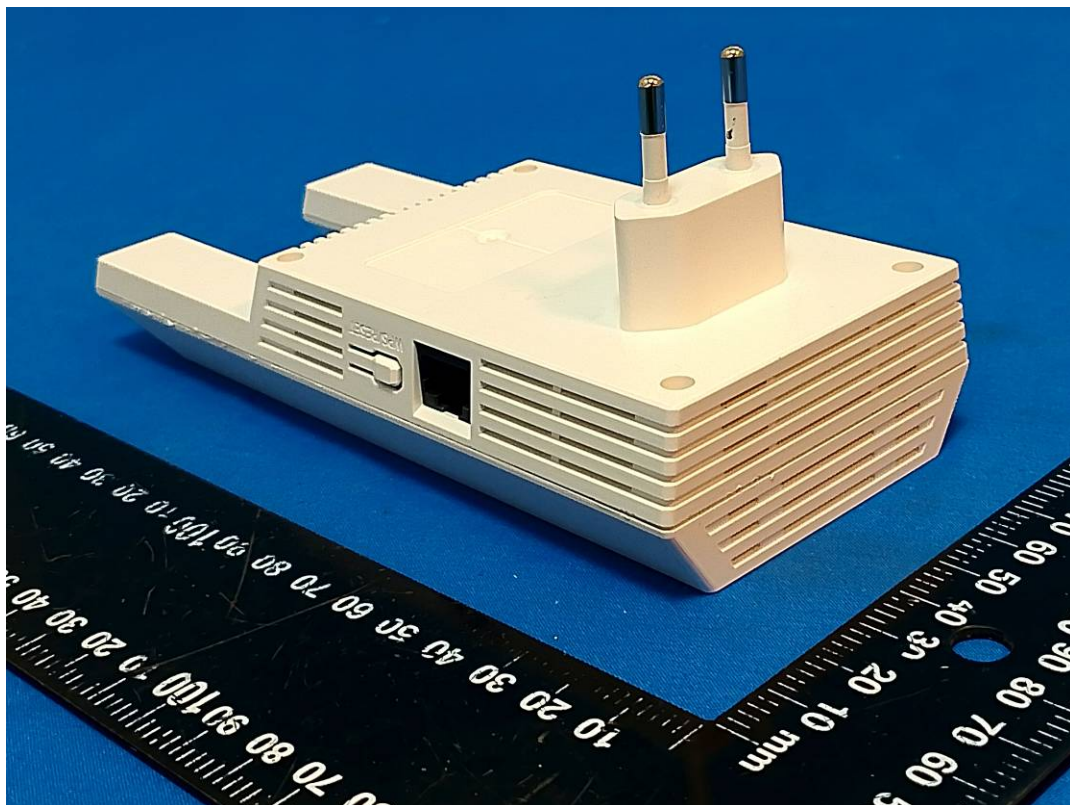
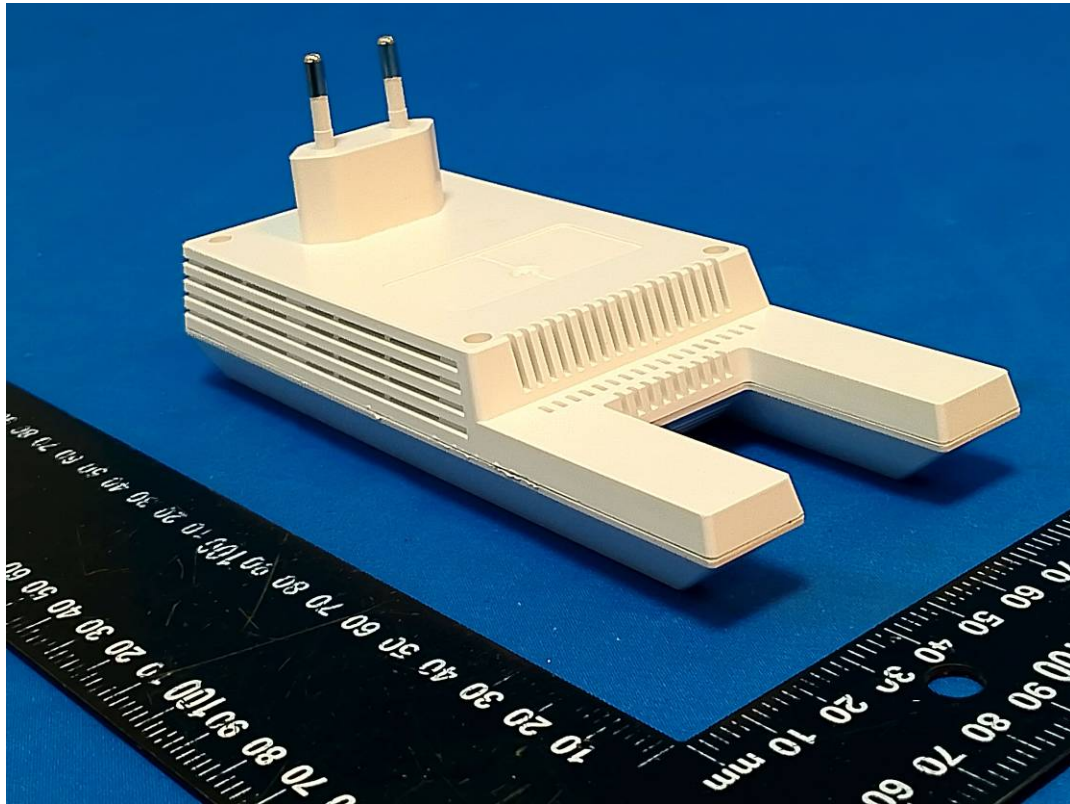


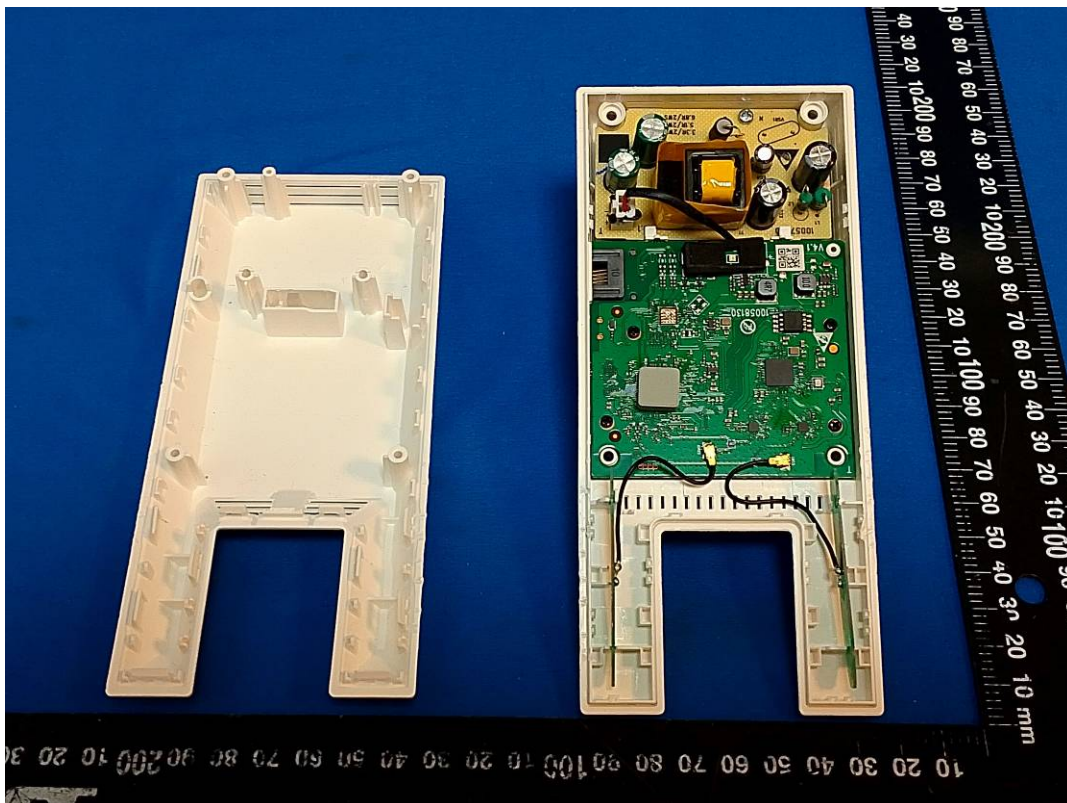


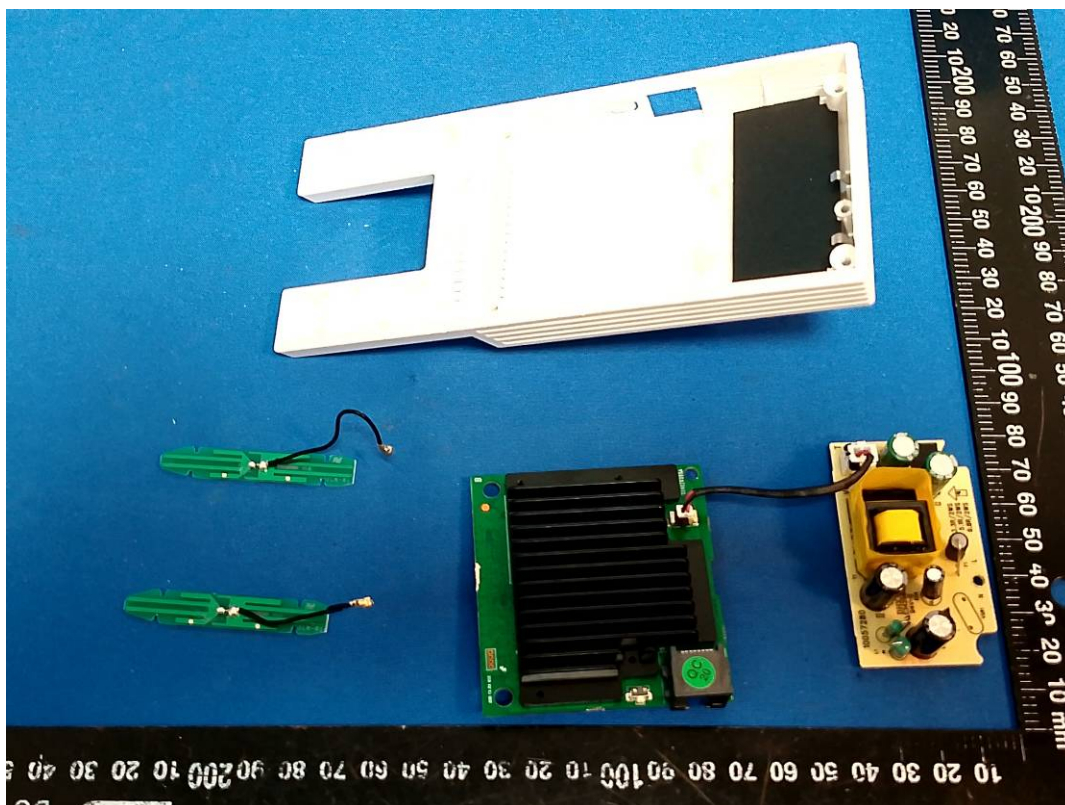
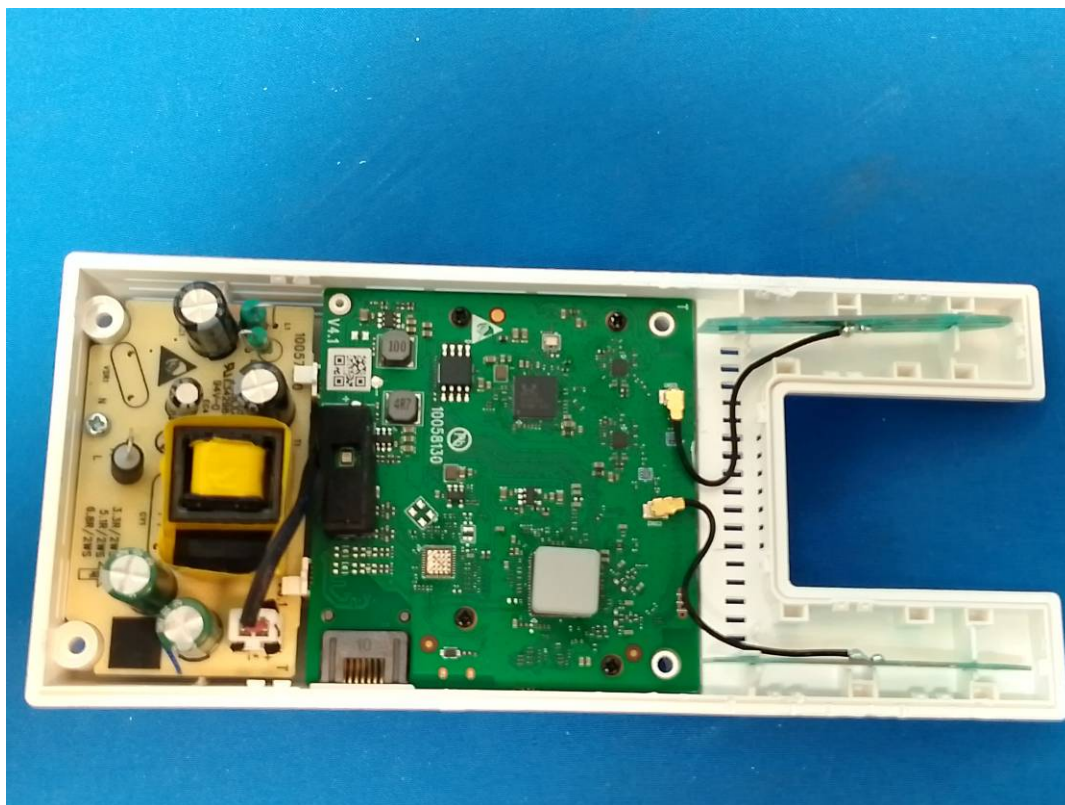


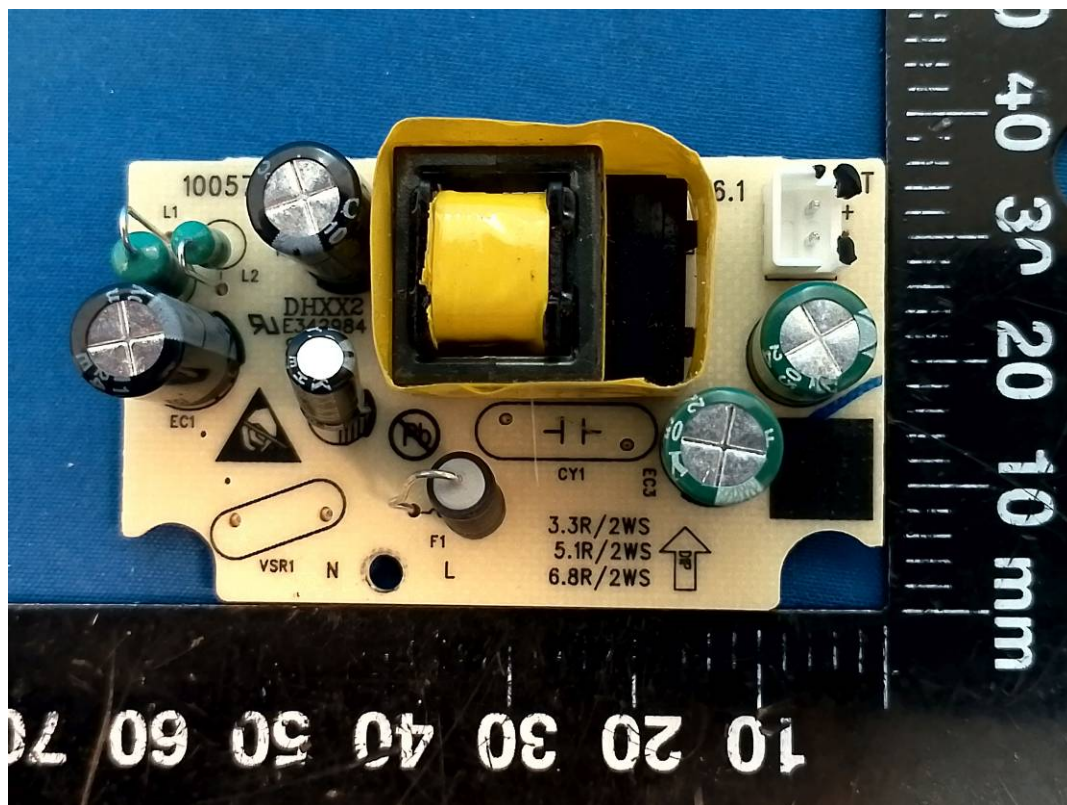
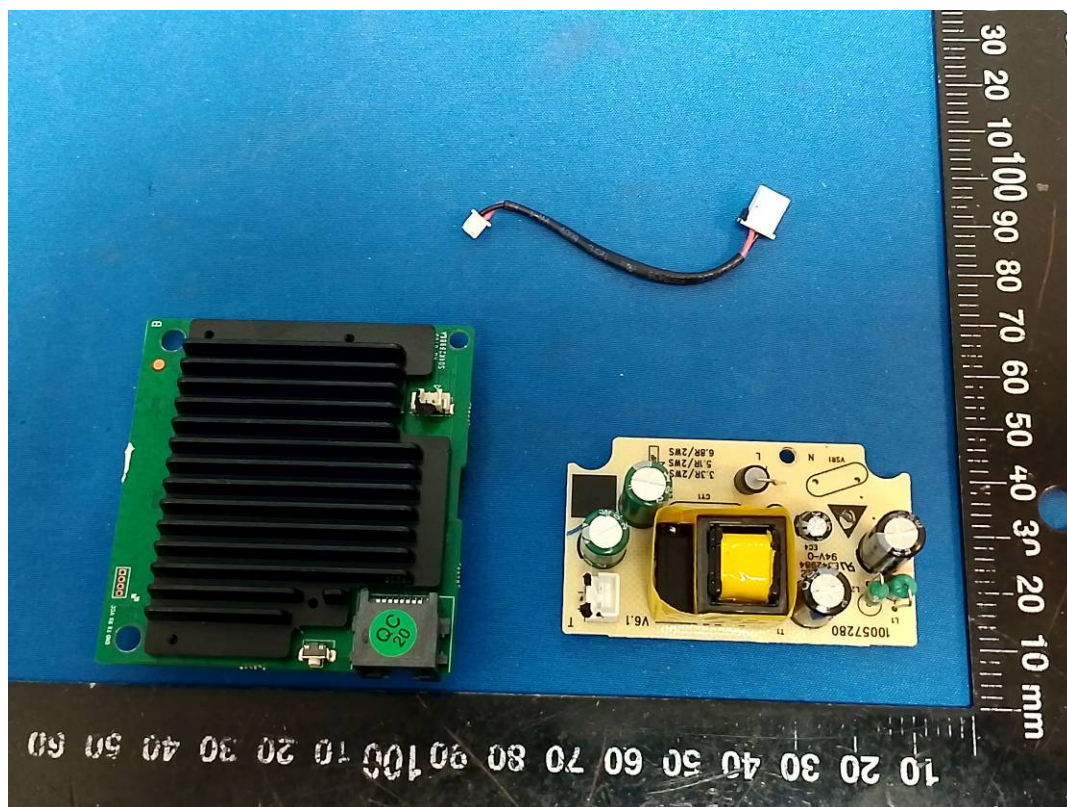
A18

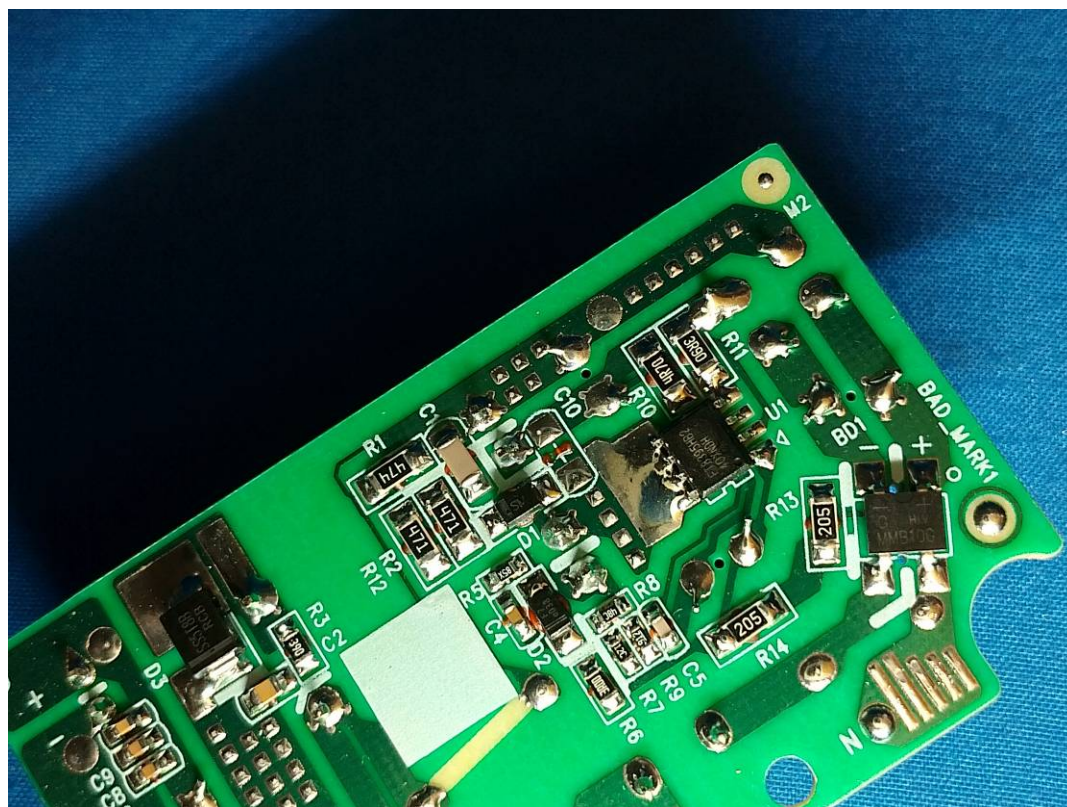
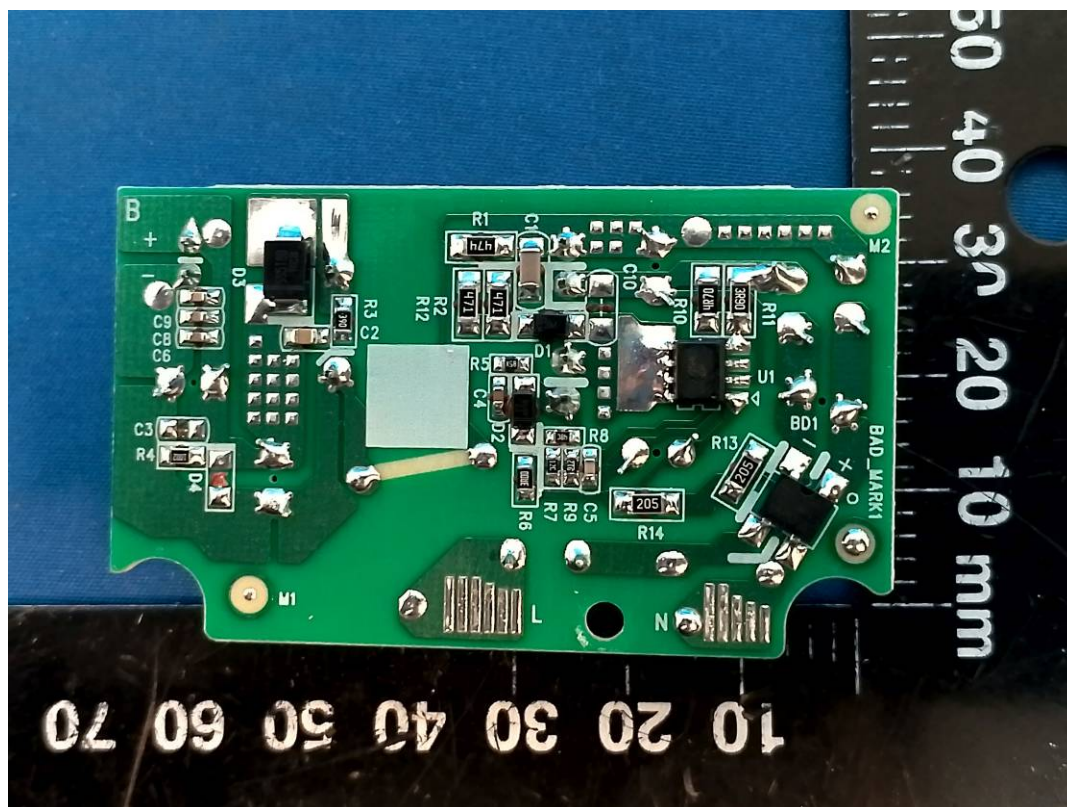


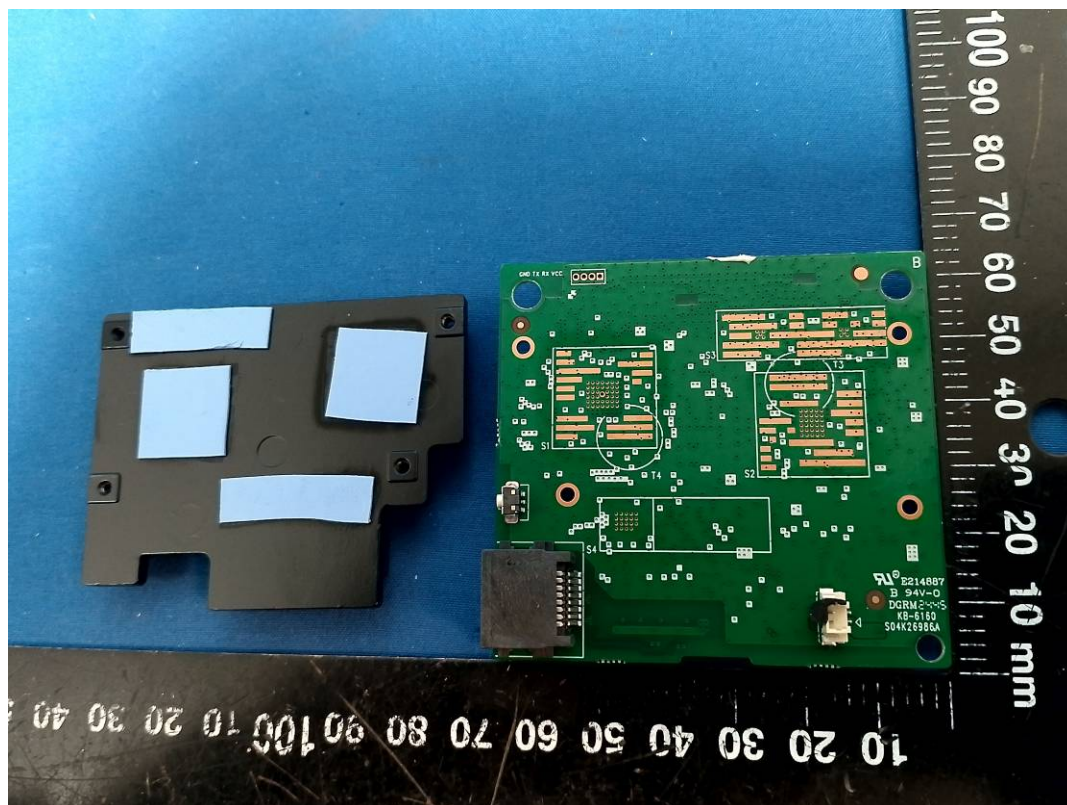


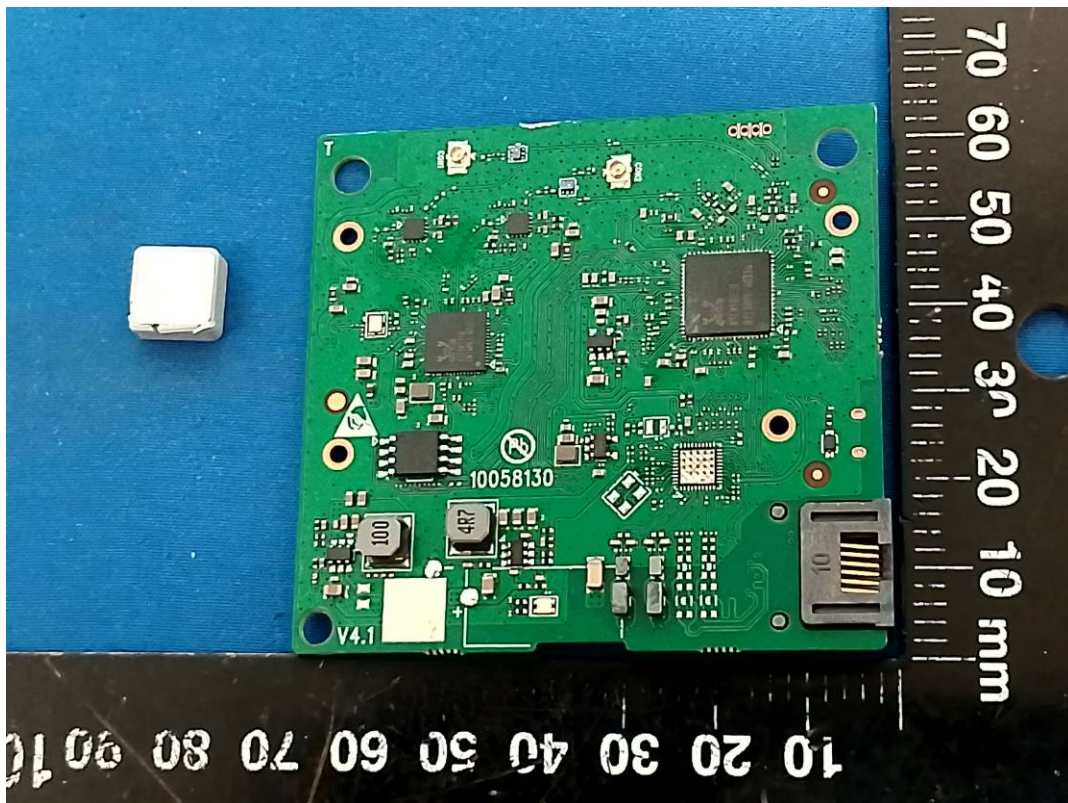
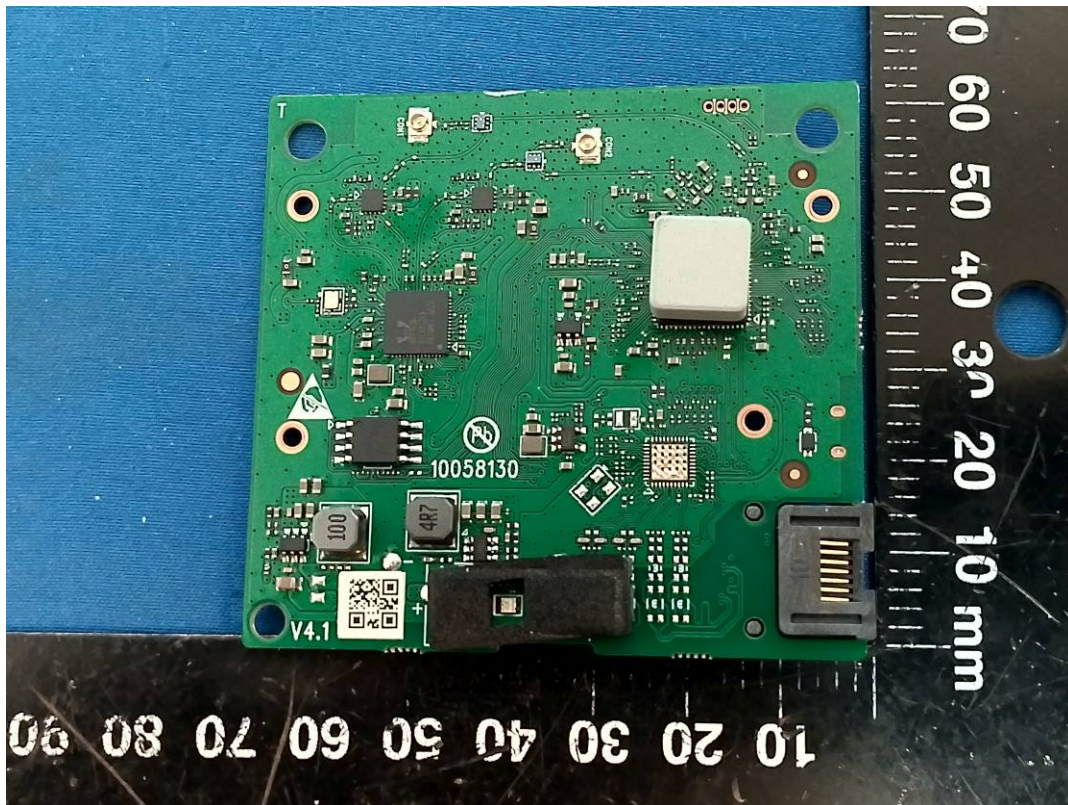


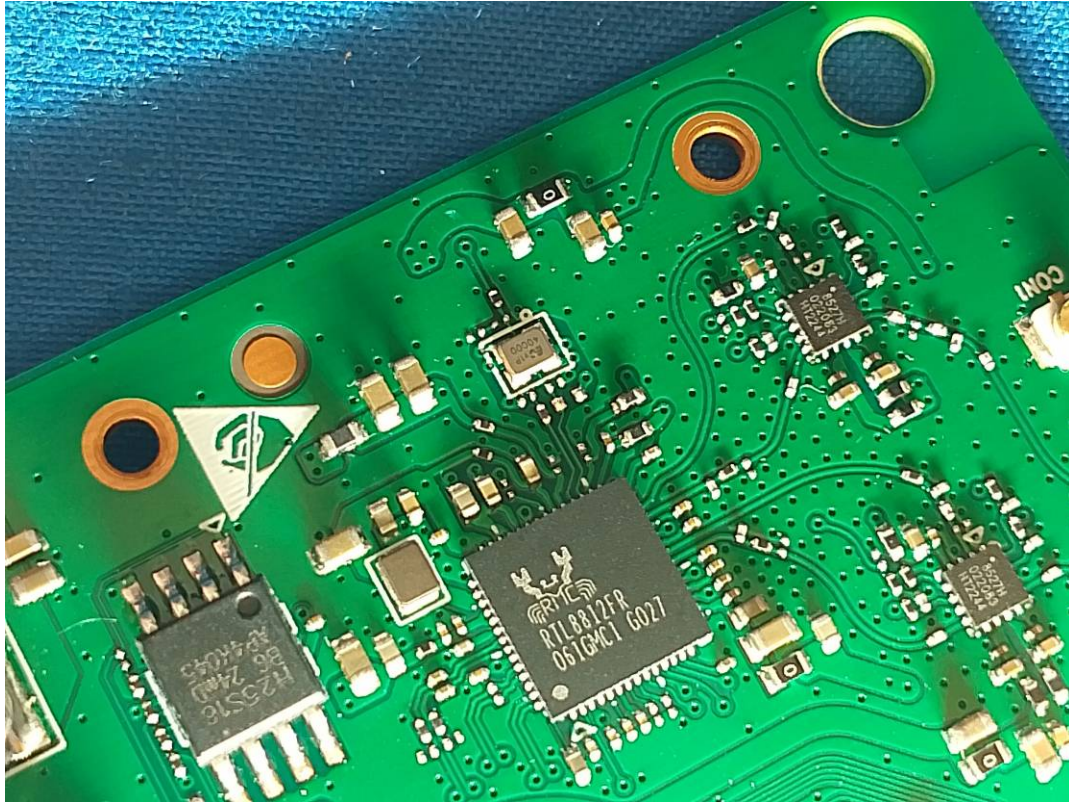












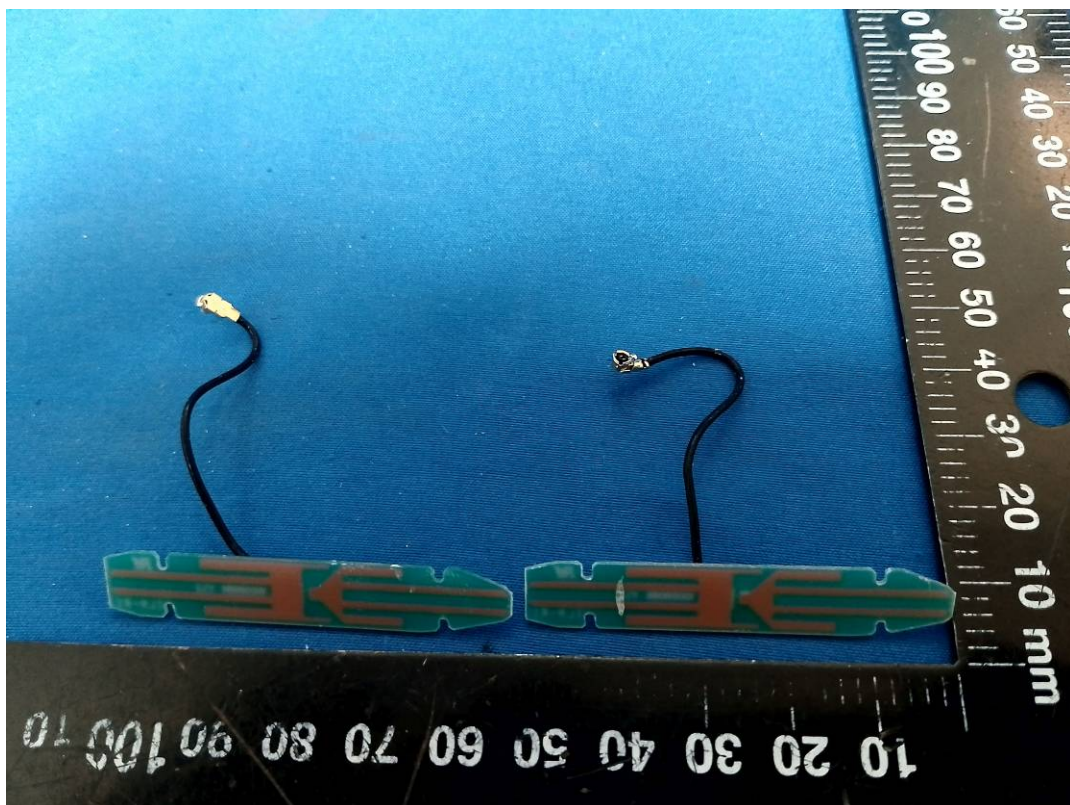
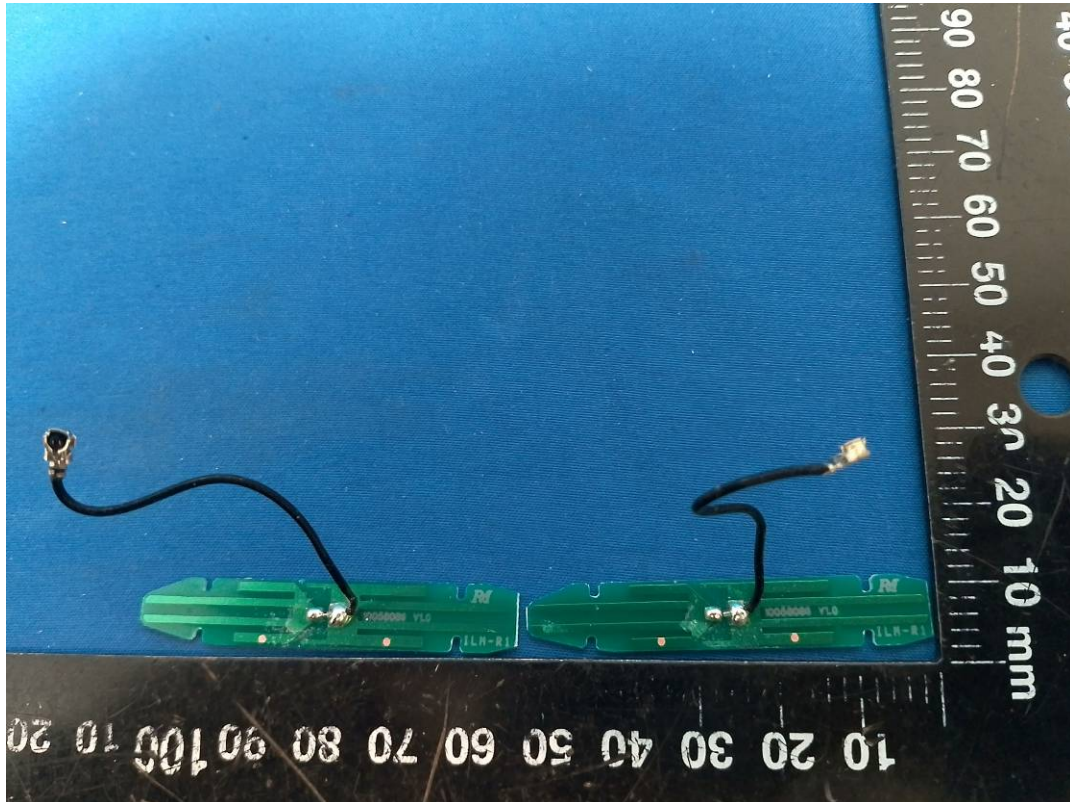


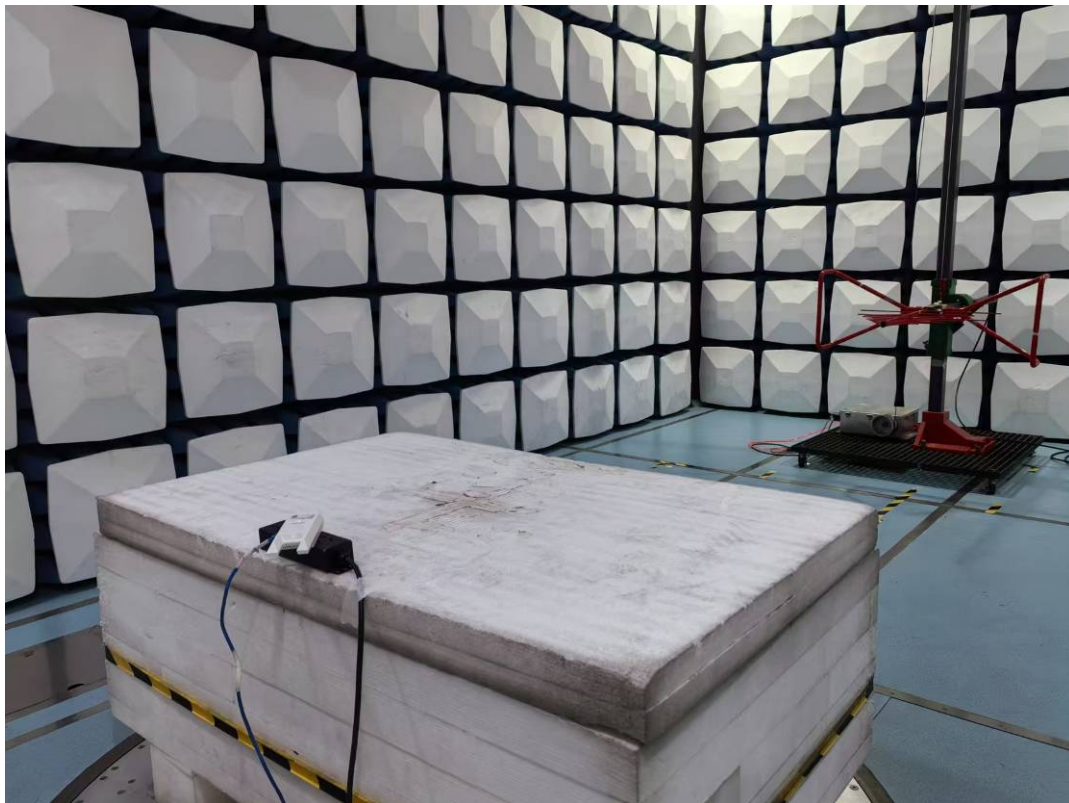
EXHIBIT B - TEST SETUP PHOTOGRAPHS

RE

RE Below 1GHz front View



RE Below 1GHz rear View



RE Above 1GHz front View



RE Above 1GHz rear View



CE_AC

CE front View

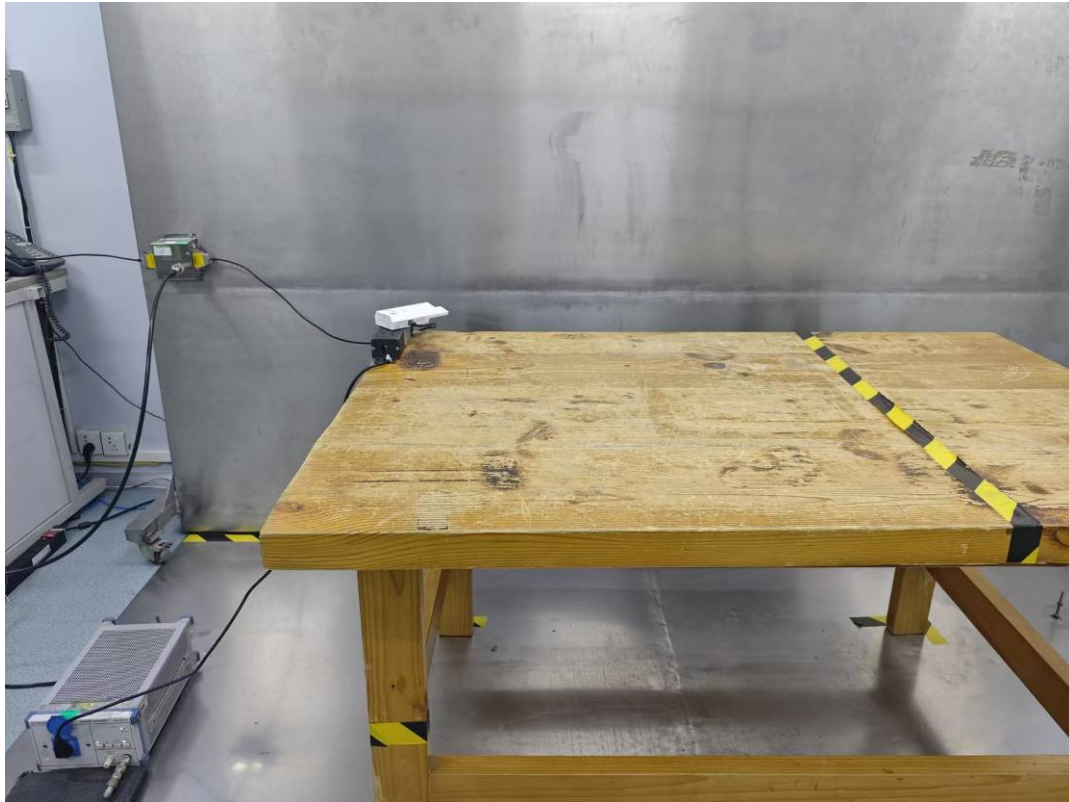


CE side View



CE_Net

CE front-ISO(RJ45) View

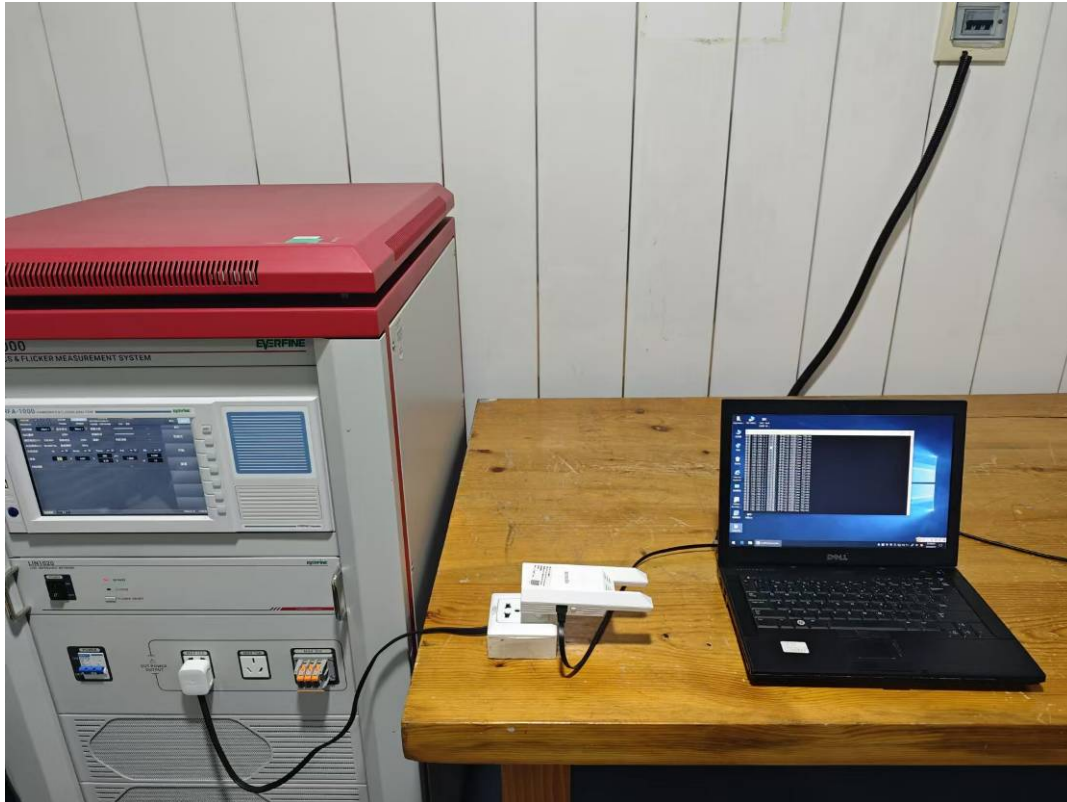


CE side-ISO(RJ45) View



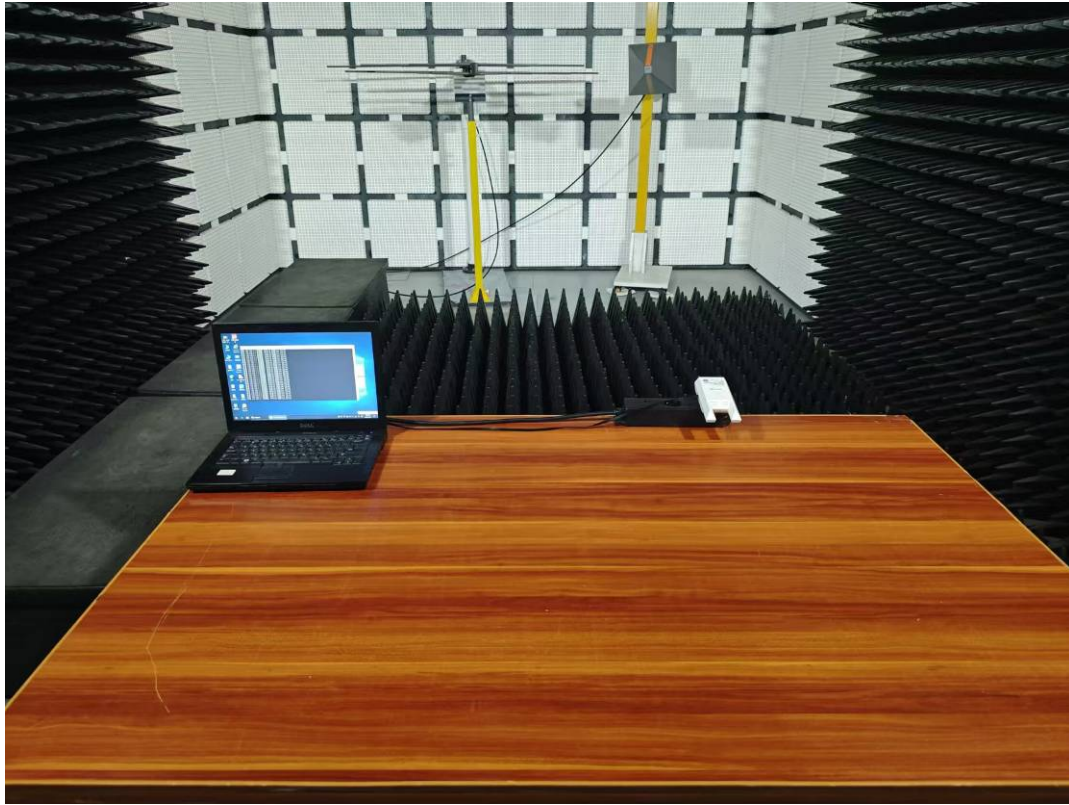
Flicker

Test Setup Photo View



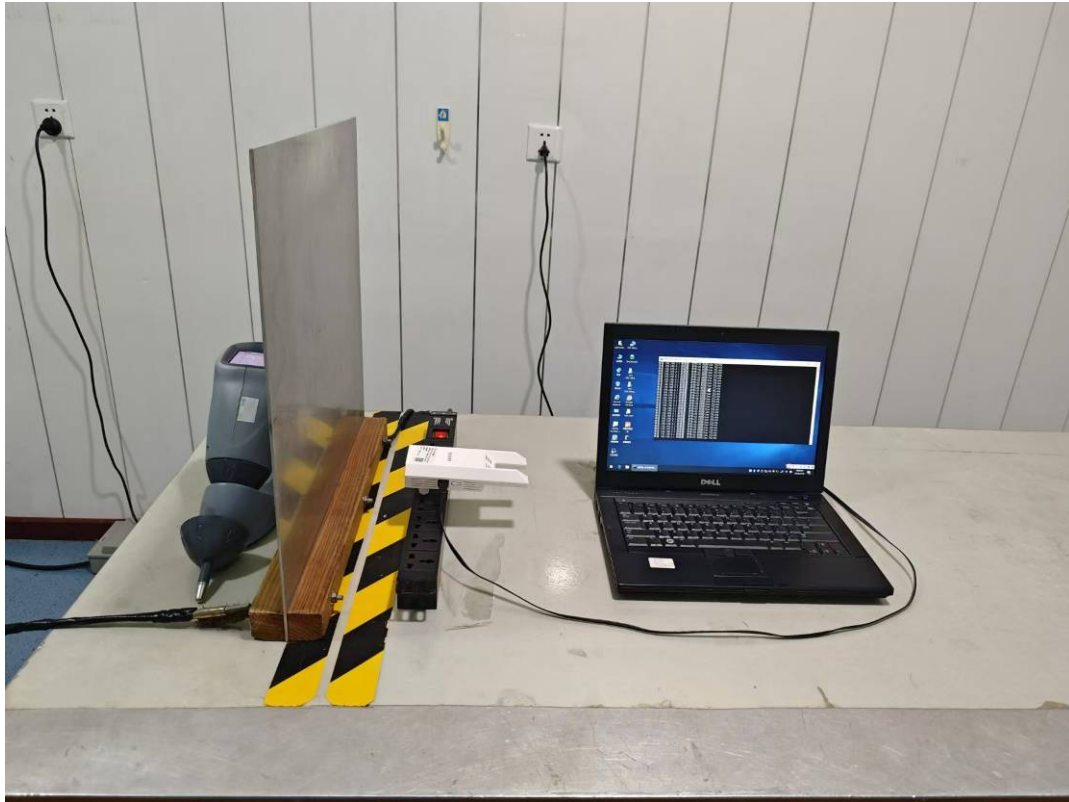
RS

Test Setup Photo View



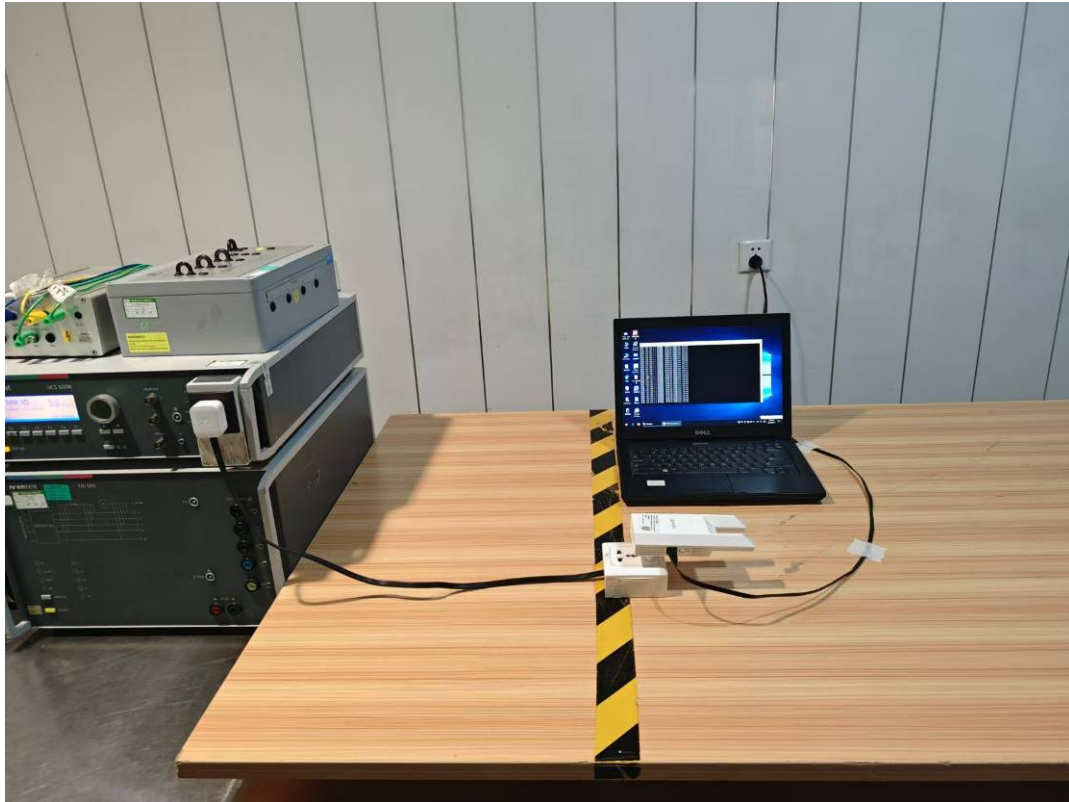
ESD

Test Setup Photo View



EFT

Test Setup Photo View

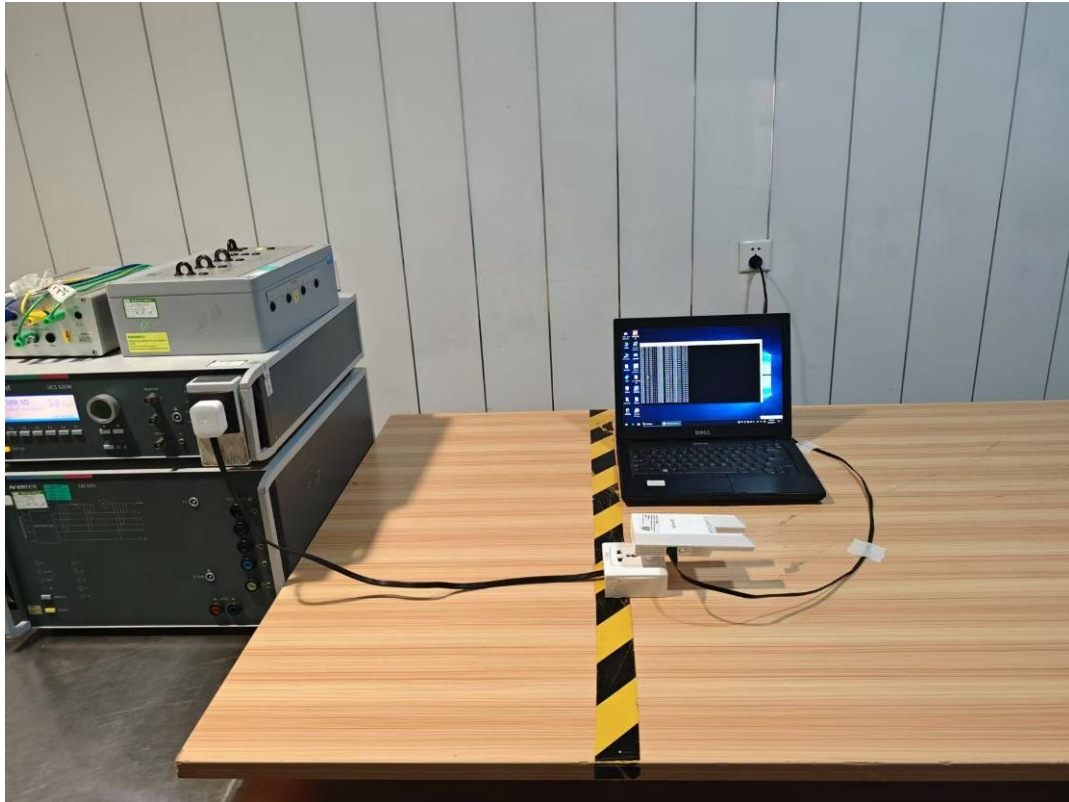


RJ45 Port Test Setup Photo View



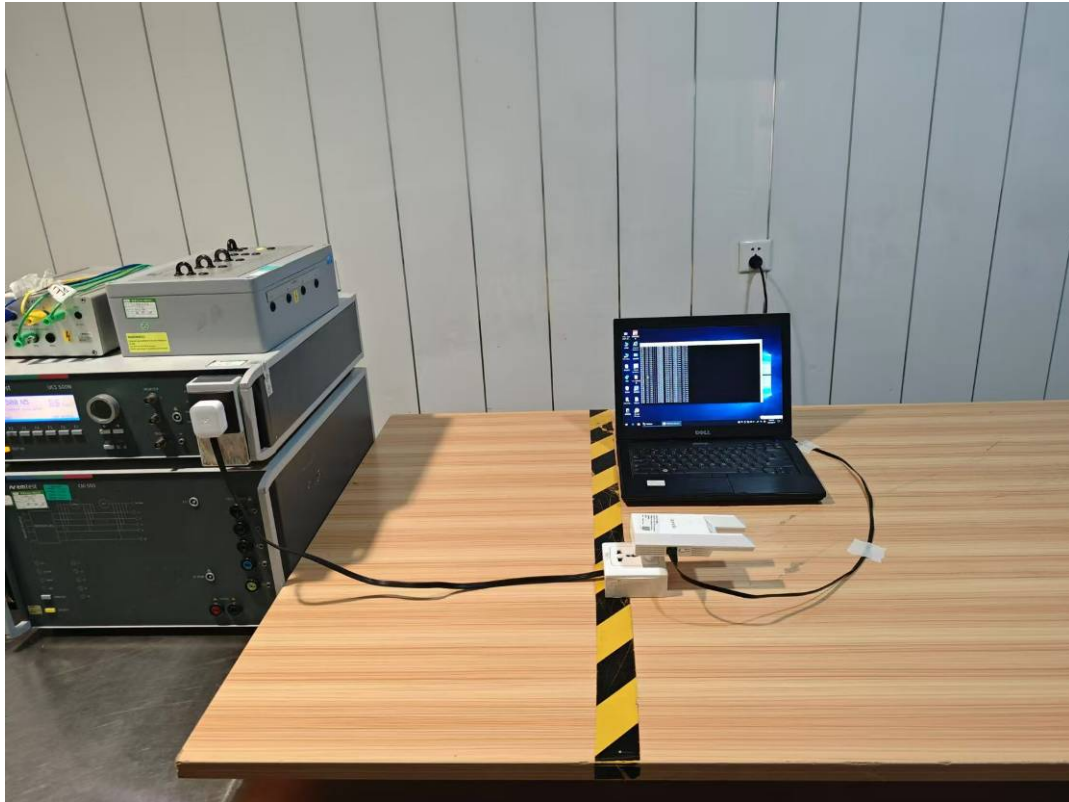
Dips

Test Setup Photo View

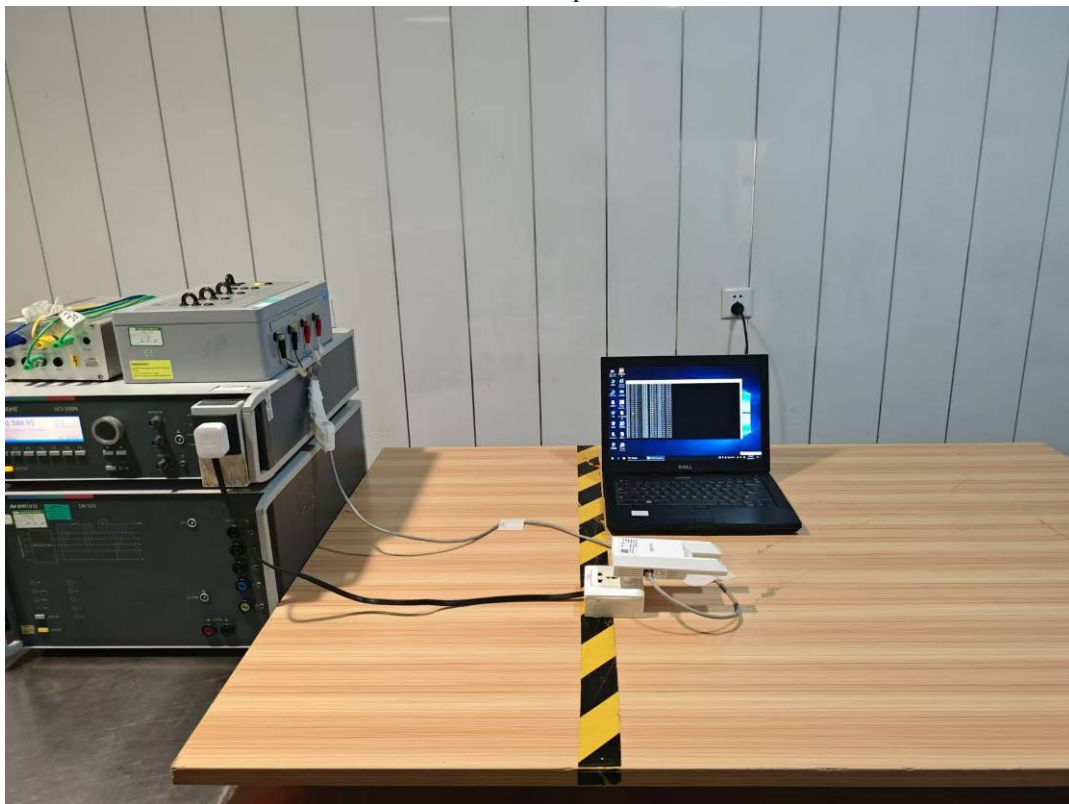


Surge

Test Setup Photo View



RJ45 Port Test Setup Photo View



CS

Test Setup Photo View



RJ45 Port Test Setup Photo View



DECLARATION OF SIMILARITY LETTER

SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Add: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China.
518052

Tel: 86-755-27657098

Fax: 86-755-27657178

E-mail: cert@tenda.cn

DECLARATION OF SIMILARITY

Date: 2024-11-28

To whom it may concern

Dear Sir or Madam:

We, SHENZHEN TENDA TECHNOLOGY CO.,LTD., hereby declare that the product: AC1200 Dual-Band Wi-Fi Range Extender, model: A18 is electrically identical with the model: A18 Pro which was tested by Bay Area Compliance Laboratories Corp. (Dongguan).

A description of the differences between those models and that are declared similar are as follows:

They are the same product, just the different model name and A18 is less one gigabit PHY than A18 Pro. the rest are the same.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature:

Printed Name: Shen Yue

Title: Engineer

*****END OF REPORT*****