

FCC SDoC / ISED TEST REPORT

For

Huizhou Fujia Appliance Tech. Co., Ltd.

POWER SUPPLY

Prepared for : Huizhou Fujia Appliance Tech. Co., Ltd.

Address : Building B of Yaoyu Ind. Park, Shatian Town, Huiyang
District, Huizhou, Guangdong, P.R. China

Prepared by : EST Technology Co., Ltd.

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Report No. : ESTE-F2311027

Date of Report : Nov. 10, 2023

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EST Technology Co., Ltd.

Applicant: Address:	Huizhou Fujia Appliance Tech. Co., Ltd. Building B of Yaoyu Ind. Park, Shatian Town, Huiyang District, Huizhou, Guangdong, P.R. China		
Manufacturer: Address:	Huizhou Fujia Appliance Tech. Co., Ltd. Building B of Yaoyu Ind. Park, Shatian Town, Huiyang District, Huizhou, Guangdong, P.R. China		
Factory: Address:	Huizhou Fujia Appliance Tech. Co., Ltd. Building B of Yaoyu Ind. Park, Shatian Town, Huiyang District, Huizhou, Guangdong, P.R. China		
E.U.T:	POWER SUPPLY		
Model Number:	FJ-SW729Sxxxxyyyn (xxx, yyyy, n are variable, Please see section 1.3 of the report)		
Trade Name:	-----	Serial No:	-----
Date of Receipt:	Oct. 25, 2023	Date of Test:	Oct. 31, ~Nov. 04, 2023
Test Specification:	FCC Part 15 Subpart B Class B:2023 ICES-003 Issue 7:2020 ANSI C63.4-2014 amended as per ANSI C63.4a-2017		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
		Issue Date: Nov. 10, 2023	
Prepared by:	Reviewed by:	Approved by:	
			
Lena / Assistant	Sean / Engineer	Iceman Hu / Manager	
Other Aspects: None.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.			

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Description : POWER SUPPLY
Model No. : FJ-SW729S2402500N, FJ-SW729S1006000N,
FJ-SW729S0906000N
System Input Voltage : AC 100V-240V, 50/60Hz
DC Line : Unshielded, Undetachable 1.5 m

1.3. Difference between Model Numbers

Note: FJ-SW729Sxxxxyyyyn

For the product colors and shapes of DC output terminal, it could use other colors and shapes as alternative which did not affect EMC. Line filter on output wire is optional.

Model No.	Input Rating	Output Rating			Transformer
		Voltage range (V)	Current range (A)	Power (W)	
FJ-SW729Sxxxxyyyyn (xxx=050-090, yyy=1000-6000)	100-240VAC, 50/60Hz, 1.5 Max	5.0 - 9.0	1.0 - 6.0	54.0	729S-T1
FJ-SW729Sxxxxyyyyn (xxx=100-160, yyy=1000-6000)		10.0 - 16.0	1.0 - 6.0	60.0	729S-T2
FJ-SW729Sxxxxyyyyn (xxx=180-240, yyy=1000-3333)		18.0 - 24.0	1.0 - 3.333	60.0	729S-T3

Note: Output voltage multiplied with output current are only tested up to the max. output power.

Variable:	Range of variable:	Content:
xxx	050-090, 100-160, 180-240	‘xxx’ are 3 digits indicating 10 times the output voltage value in V. For example, 050 represents the output voltage is 5.0Vdc, 240 represents the output voltage is 24.0Vdc. The rated output voltage is rising in steps of 0.1V.
yyy	1000-6000	‘yyy’ are 4 digits indicating 1000 times the output current value in A. For example, 1000 represents the output current is 1.0A, 6000 represents the output current is 6.0A. The rated output current is rising in steps of 0.001A.
n	U, N	Indicating one digit number to represent different plug type: U means fixed American type plug, N means detachable US plug provided.

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1. Full Load

1.4.2. Half Load

1.4.3. No Load

2. TEST STANDARDS AND SITES

2.1. Description of Standards and Results

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

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC Part 15:2023 ICES-003:2020	Class B	PASS
		Minimum passing margin is 3.03dB at 0.55MHz	
Radiated Emission Test (30MHz-1000MHz)	FCC Part 15:2023 ICES-003:2020	Class B	PASS
		Minimum passing margin is 9.42dB at 45.52MHz	

2.2. Test Facilities

EMC Lab	:	Certificated by CNAS, CHINA Registration No.: L5288 This Certificate is valid until: November 12, 2023 Certificated by FCC, USA Designation Number: CN1215 This Certificate is valid until: January 31, 2024 Certificated by A2LA, USA Registration No.: 4366.01 This Certificate is valid until: January 31, 2024 Certificated by Industry Canada CAB identifier No.: CN0035 This Certificate is valid until: January 31, 2024 Certificated by VCCI, Japan Registration No.:C-14103; T-20073; R-13663; R-20103; G-20097 Date of registration: Apr. 20, 2020 This Certificate is valid until: Apr. 19, 2026 Certificated by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018 Certificated by Intertek Registration No.: 2011-RTL-L2-64 Date of registration: November 08, 2018
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3.List of Test and Measurement Instruments

2.3.1. For conducted emission at the mains terminals test (1# conduction)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI3	EST-E071	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E003	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.2. For radiated emission test (30MHz-1000MHz; 2# 966 radiation)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR3	EST-E049	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E053	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

Note: All calibration reports of the equipment were provided by LiSai calibration and Testing

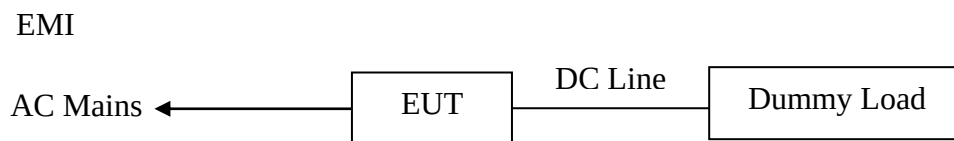
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators



(EUT: POWER SUPPLY)

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

3.4. Special Accessories and Auxiliary Equipment

None.

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at The Mains Terminals Test

RESULT : **Pass**
Test procedure : ANSI C63.4-2014 amended as per ANSI C63.4a-2017
Frequency range : 0.15 to 30MHz
Test Site : 1# Conduction Shielded Room
Limits : FCC Part 15:2023 Class B / ICES-003:2020 Class B

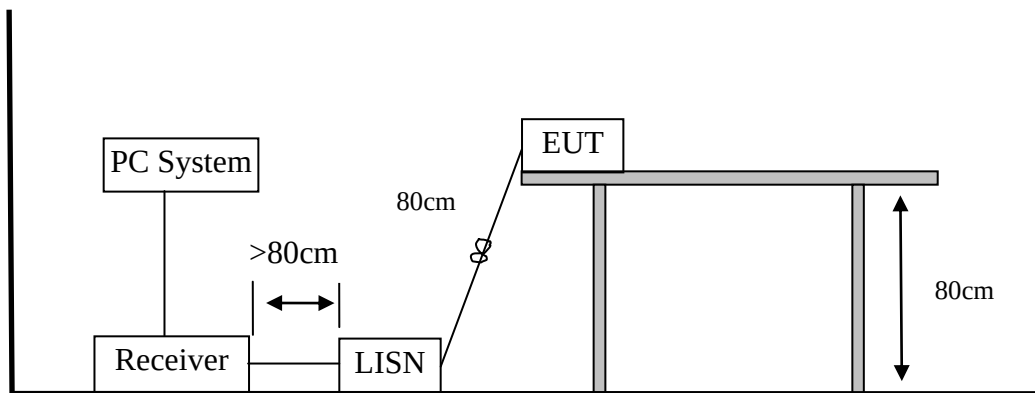
Test Setup

Date of test : Oct. 31, 2023
Model No. : FJ-SW729S2402500N, FJ-SW729S1006000N,
FJ-SW729S0906000N
Input Voltage : AC 120V/60Hz, AC 240V/50Hz
Operation Mode : Full Load, Half Load, No Load

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.

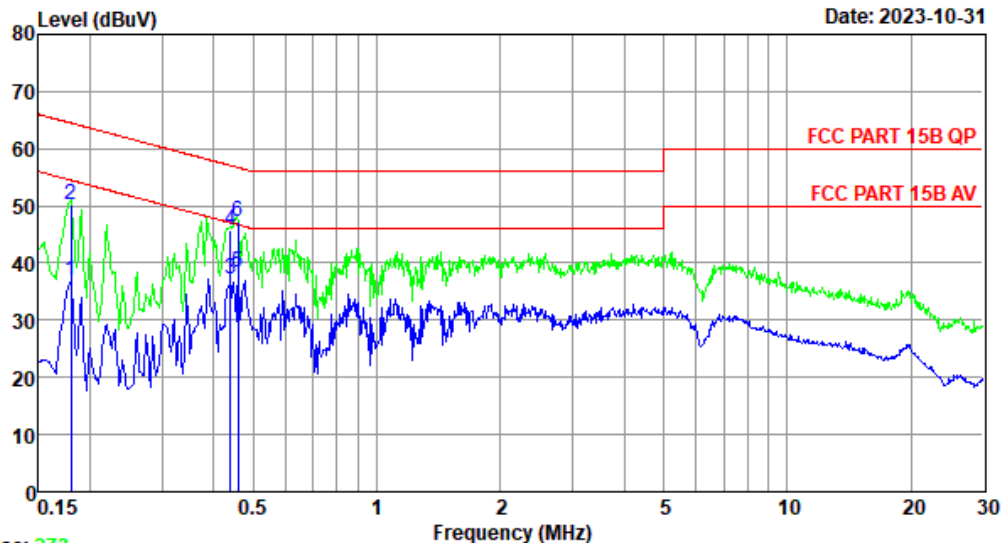


Note: Test uncertainty: $\pm 3.44\text{dB}$ at a level of confidence of 95%.(1#CE)

Data: 274

File: \\Emc-CE-1\test data\2023\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 273

Site no : 1#CE Shield Room Data no. : 274
 Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : JACK
 EUT : POWER SUPPLY
 Power : AC 240V/50Hz
 M/N : FJ-SW729S2402500N
 Test Mode : Full Load(Output:24V/2.5A)

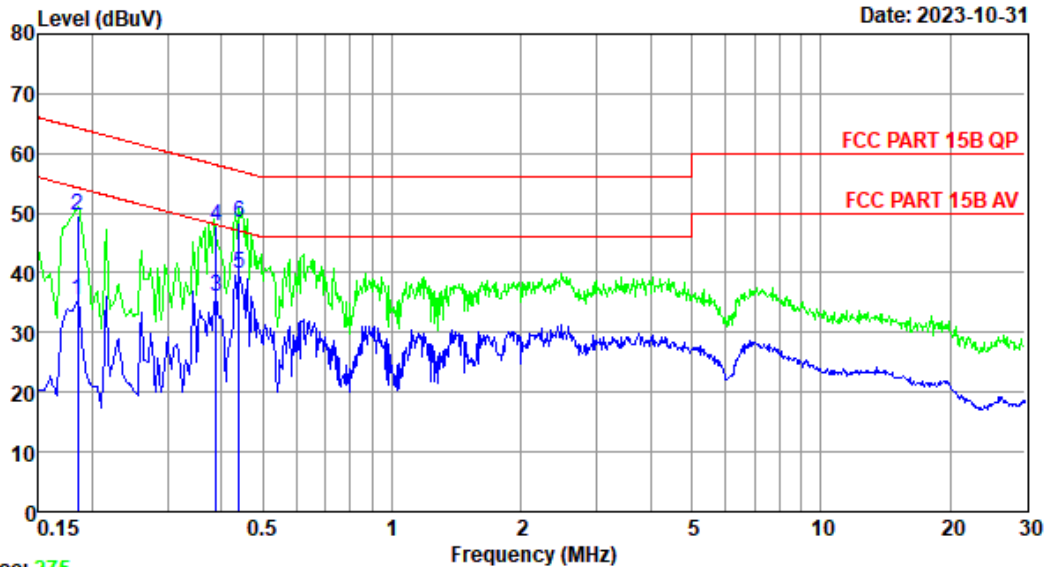
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.18	10.32	9.90	16.72	36.94	54.50	17.56	Average
2	0.18	10.32	9.90	30.01	50.23	64.50	14.27	QP
3	0.44	10.20	9.91	16.94	37.05	47.07	10.02	Average
4	0.44	10.20	9.91	25.63	45.74	57.07	11.33	QP
5	0.46	10.21	9.91	18.21	38.33	46.71	8.38	Average
6	0.46	10.21	9.91	27.18	47.30	56.71	9.41	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 276

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 275

Site no : 1#CE Shield Room Data no. : 276
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : Full Load(Output:24V/2.5A)

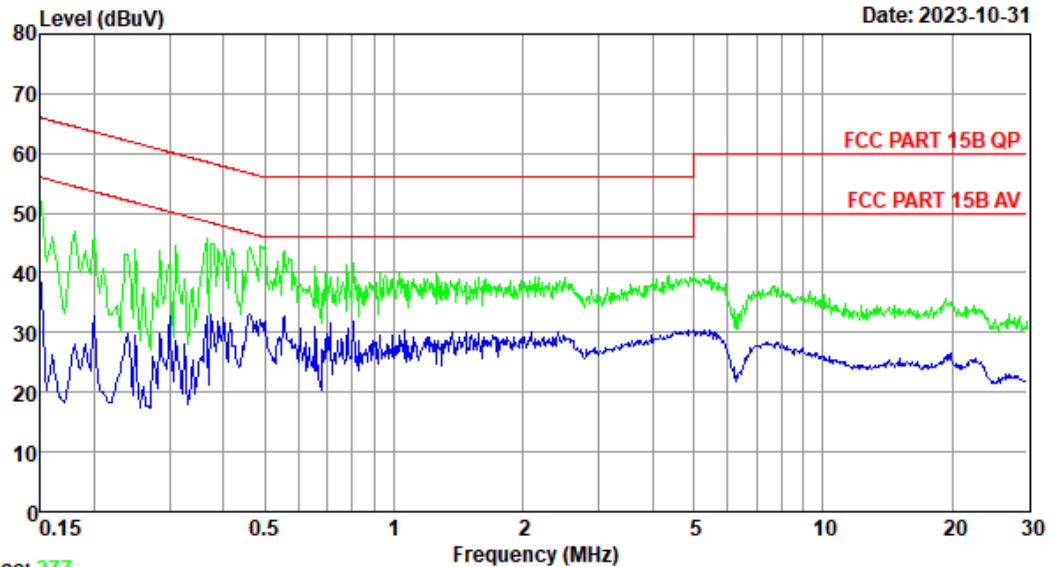
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.32	9.90	15.20	35.42	54.24	18.82	Average
2	0.19	10.32	9.90	29.52	49.74	64.24	14.50	QP
3	0.39	10.25	9.91	15.79	35.95	48.08	12.13	Average
4	0.39	10.25	9.91	27.53	47.69	58.08	10.39	QP
5	0.44	10.24	9.91	19.62	39.77	47.07	7.30	Average
6	0.44	10.24	9.91	28.33	48.48	57.07	8.59	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 278

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



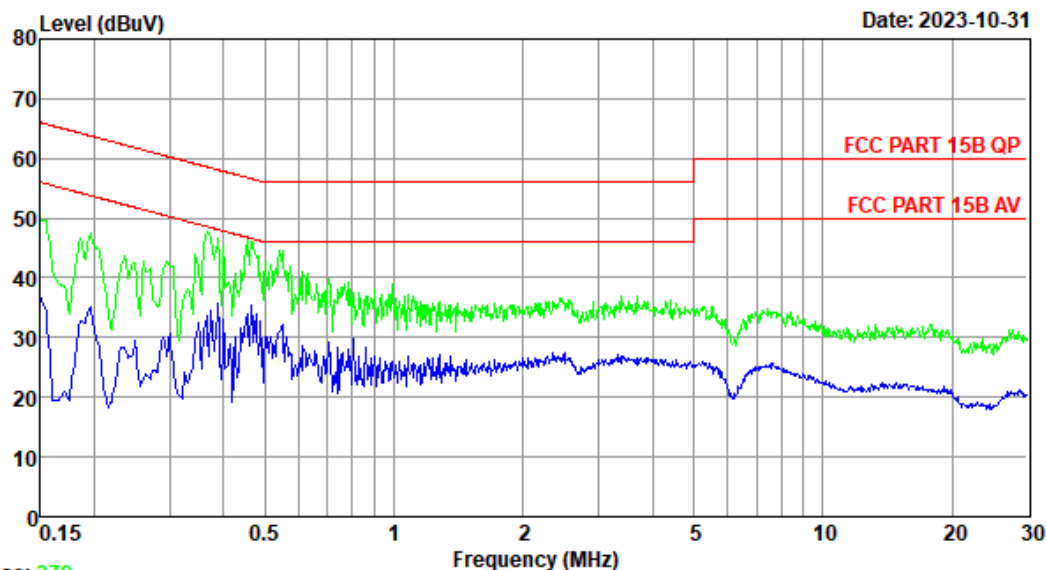
Trace: 277

Site no : 1#CE Shield Room Data no. : 278
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S2402500N
Test Mode : Full Load(Output:24V/2.5A)

Data: 280

File: \\Emc-CE-1\test data\2023\F\FuJia-1.EM6 (304)

Date: 2023-10-31



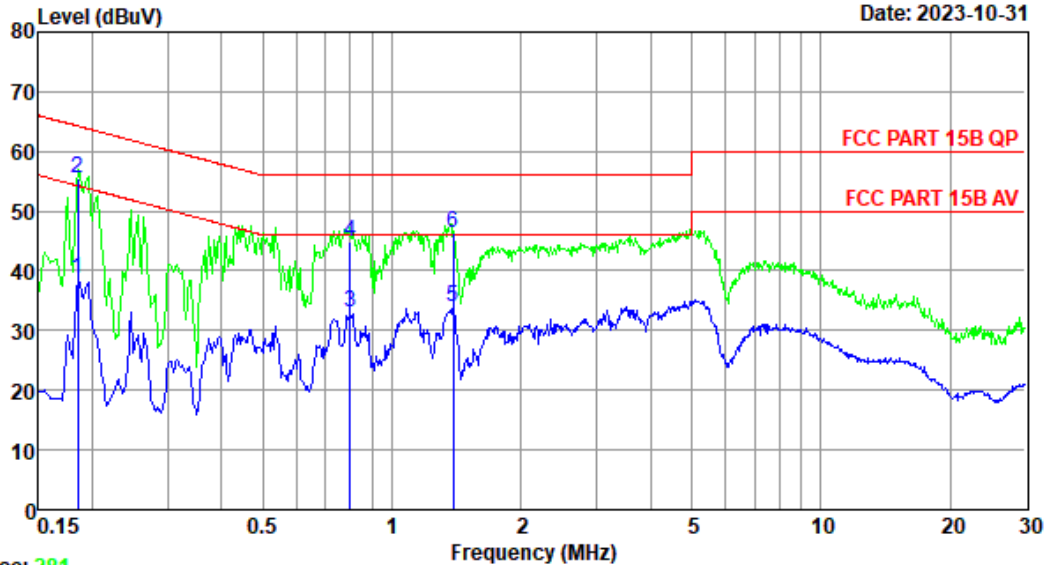
Trace: 279

Site no : 1#CE Shield Room Data no. : 280
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S2402500N
Test Mode : Full Load(Output:24V/2.5A)

Data: 282

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



Site no : 1#CE Shield Room Data no. : 282
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

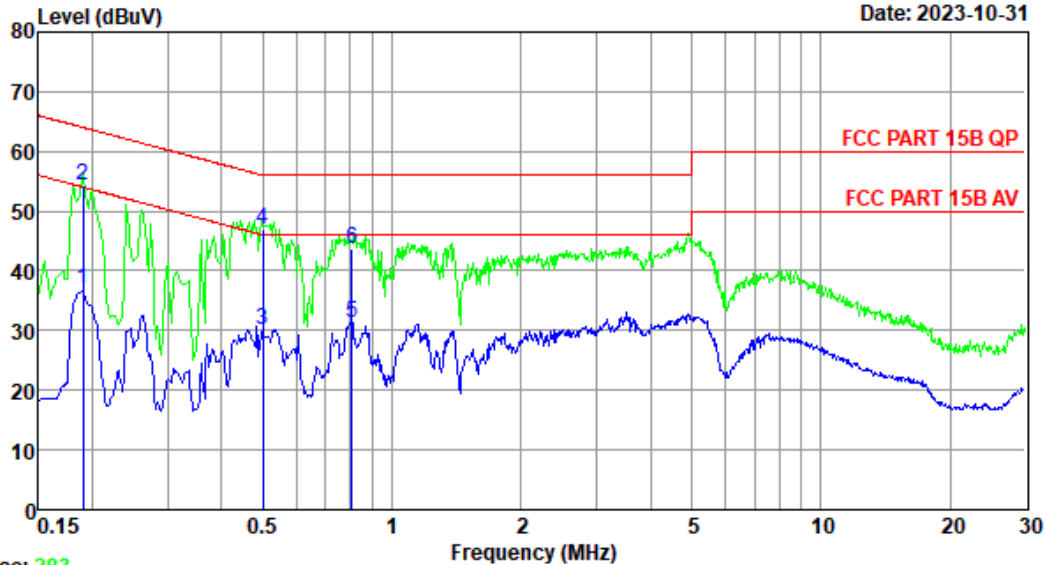
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.32	9.90	18.54	38.76	54.24	15.48	Average
2	0.19	10.32	9.90	35.21	55.43	64.24	8.81	QP
3	0.80	10.38	9.93	12.83	33.14	46.00	12.86	Average
4	0.80	10.38	9.93	24.55	44.86	56.00	11.14	QP
5	1.39	10.48	9.92	13.43	33.83	46.00	12.17	Average
6	1.39	10.48	9.92	25.87	46.27	56.00	9.73	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 284

File: \\Emc-CE-1\test data\2023\F\FuJia-1.EM6 (304)

Date: 2023-10-31



Site no : 1#CE Shield Room Data no. : 284
 Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : JACK
 EUT : POWER SUPPLY
 Power : AC 240V/50Hz
 M/N : FJ-SW729S1006000N
 Test Mode : Full Load(Output:10V/6A)

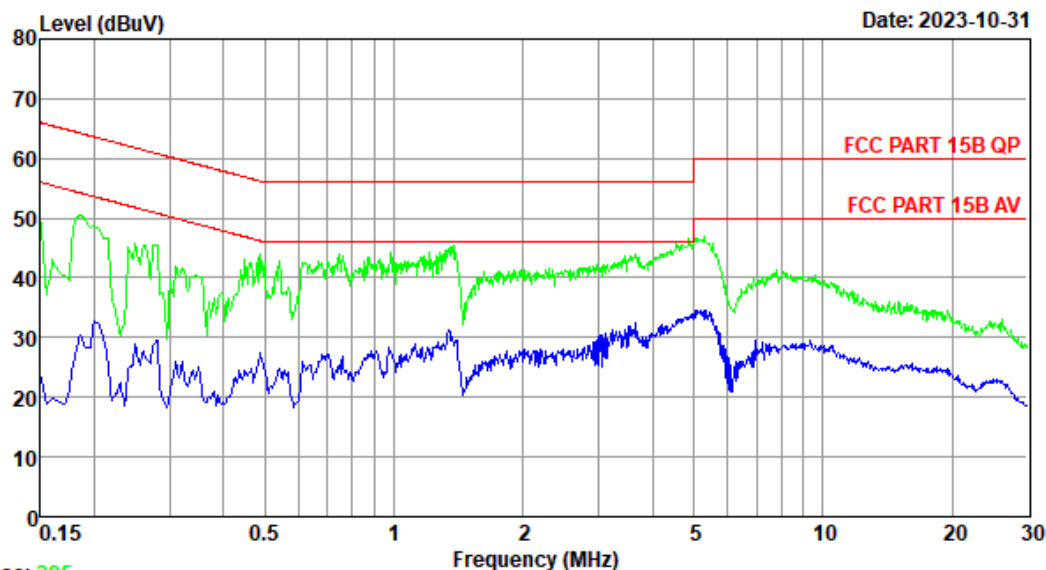
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.32	9.90	16.61	36.83	54.02	17.19	Average
2	0.19	10.32	9.90	34.20	54.42	64.02	9.60	QP
3	0.50	10.22	9.91	9.85	29.98	46.01	16.03	Average
4	0.50	10.22	9.91	26.68	46.81	56.01	9.20	QP
5	0.80	10.15	9.93	11.18	31.26	46.00	14.74	Average
6	0.80	10.15	9.93	23.52	43.60	56.00	12.40	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 286

File: \\Emc-CE-1\test data\2023\FuJia-1.EM6 (304)

Date: 2023-10-31



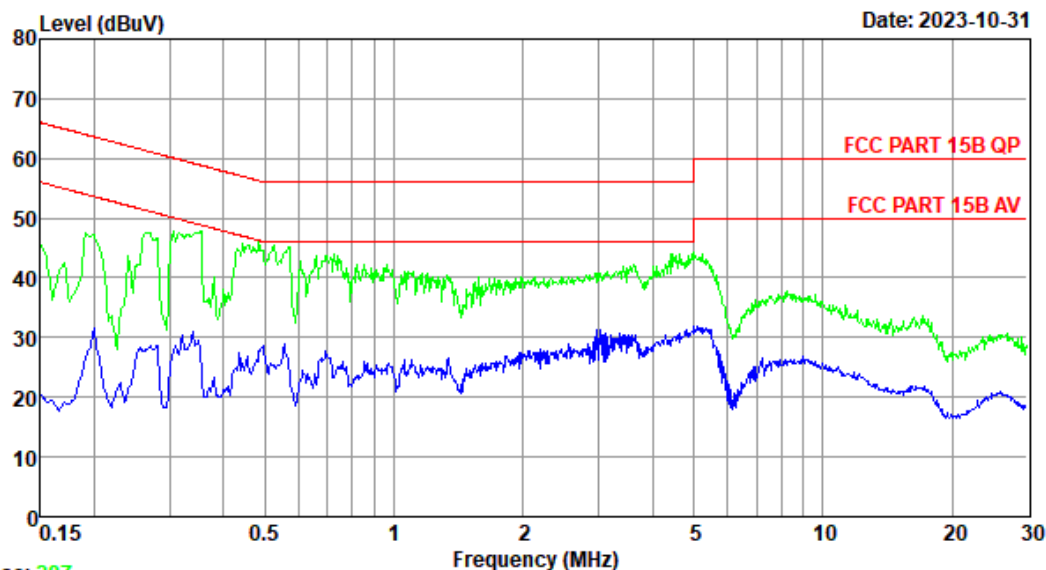
Trace: 285

Site no : 1#CE Shield Room Data no. : 286
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

Data: 288

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



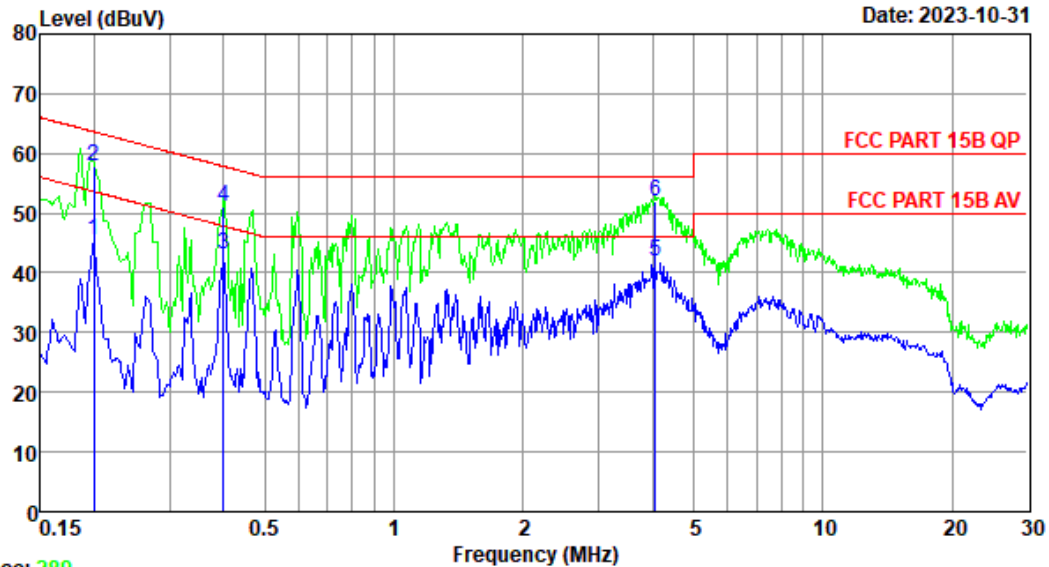
Trace: 287

Site no : 1#CE Shield Room Data no. : 288
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

Data: 290

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 289

Site no : 1#CE Shield Room Data no. : 290
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

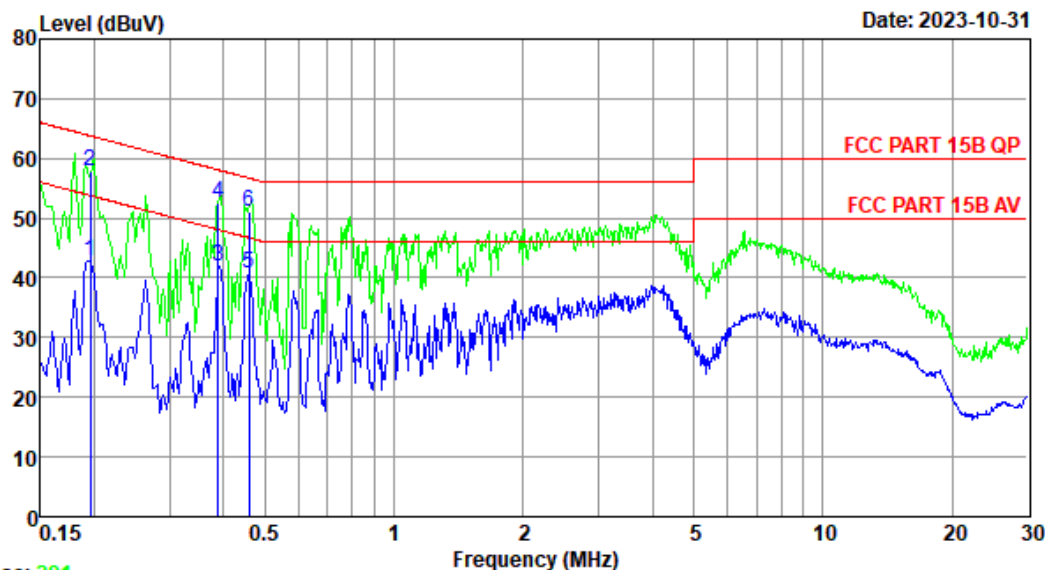
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20	10.32	9.90	25.16	45.38	53.62	8.24	Average
2	0.20	10.32	9.90	37.68	57.90	63.62	5.72	QP
3	0.40	10.20	9.91	23.10	43.21	47.86	4.65	Average
4	0.40	10.20	9.91	30.86	50.97	57.86	6.89	QP
5	4.07	10.41	9.90	21.49	41.80	46.00	4.20	Average
6	4.07	10.41	9.90	31.53	51.84	56.00	4.16	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 292

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 291

Site no : 1#CE Shield Room Data no. : 292
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

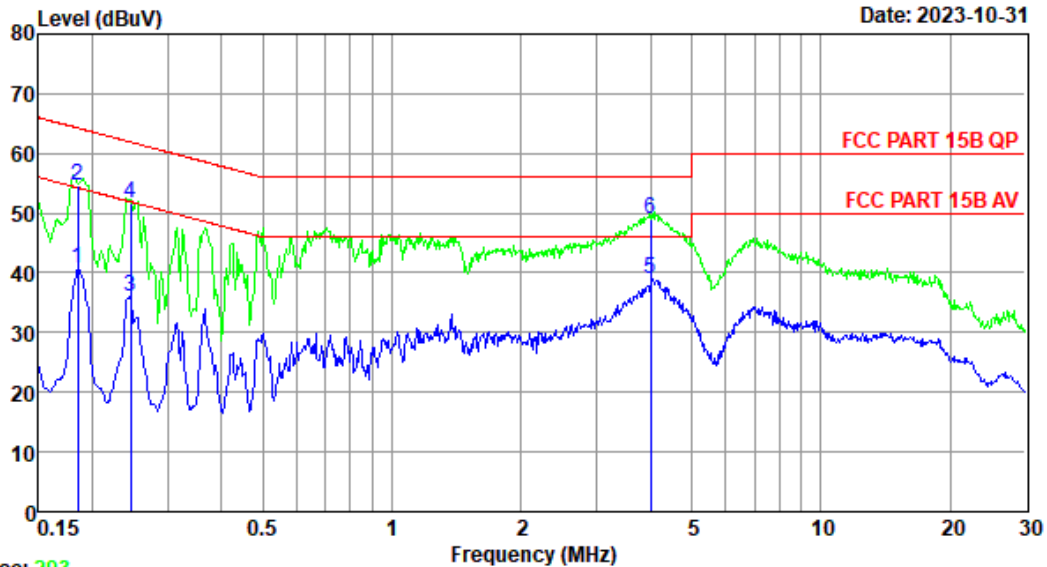
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20	10.32	9.90	22.73	42.95	53.80	10.85	Average
2	0.20	10.32	9.90	37.60	57.82	63.80	5.98	QP
3	0.39	10.25	9.91	21.89	42.05	48.08	6.03	Average
4	0.39	10.25	9.91	32.51	52.67	58.08	5.41	QP
5	0.46	10.23	9.91	20.68	40.82	46.71	5.89	Average
6	0.46	10.23	9.91	30.80	50.94	56.71	5.77	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 294

File: \\Emc-CE-1\test data\2023\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 293
 Site no : 1#CE Shield Room Data no. : 294
 Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : JACK
 EUT : POWER SUPPLY
 Power : AC 120V/60Hz
 M/N : FJ-SW729S0906000N
 Test Mode : Full Load(Output:9V/6A)

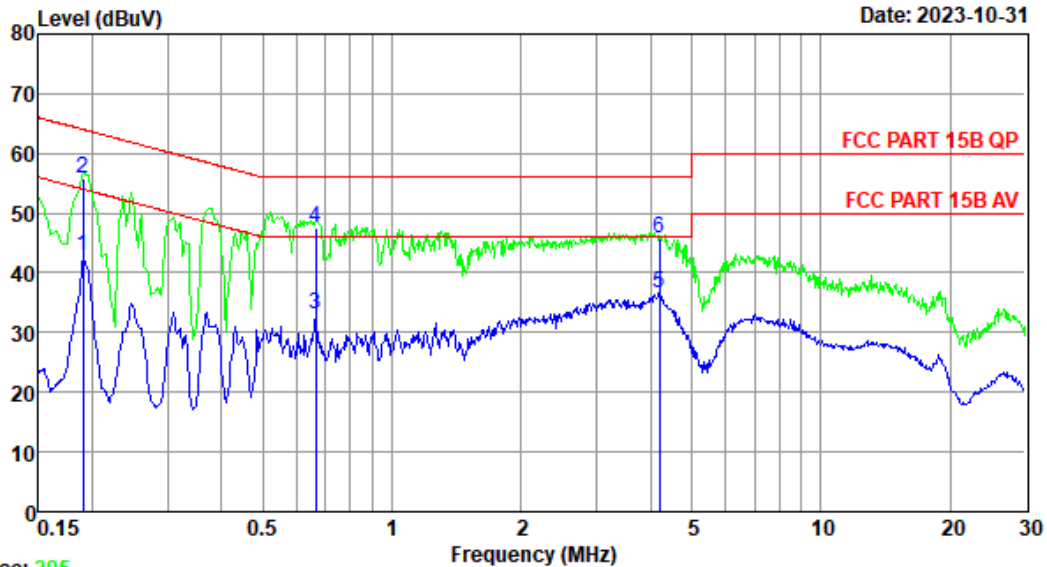
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.32	9.90	20.66	40.88	54.24	13.36	Average
2	0.19	10.32	9.90	34.52	54.74	64.24	9.50	QP
3	0.25	10.26	9.91	15.83	36.00	51.91	15.91	Average
4	0.25	10.26	9.91	31.52	51.69	61.91	10.22	QP
5	4.01	10.41	9.91	18.61	38.93	46.00	7.07	Average
6	4.01	10.41	9.91	28.54	48.86	56.00	7.14	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 296

File: \\Emc-CE-1\\test data\\2023\\F\\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 295

Site no : 1#CE Shield Room Data no. : 296
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

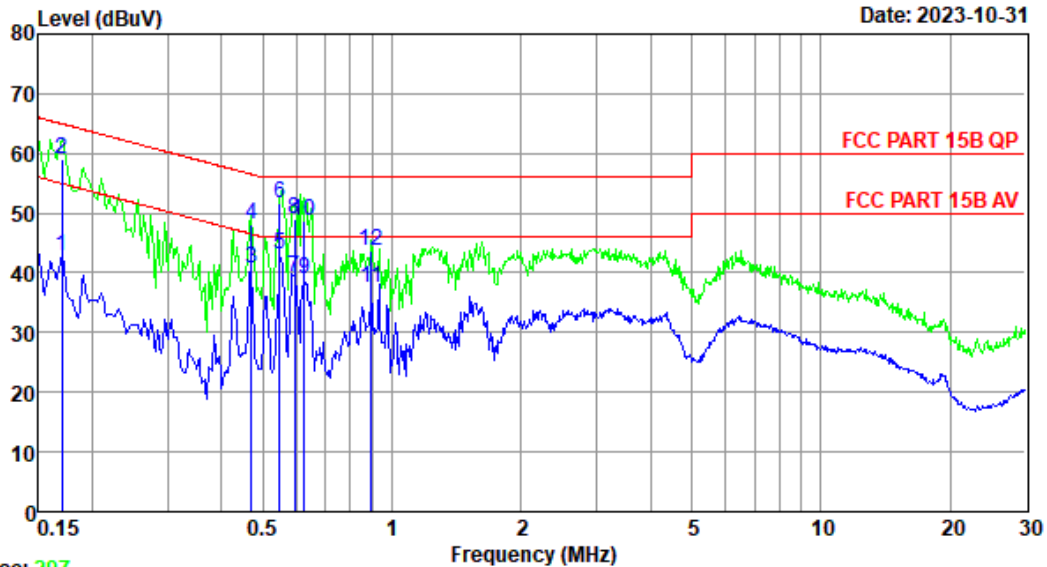
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.32	9.90	22.62	42.84	54.02	11.18	Average
2	0.19	10.32	9.90	35.59	55.81	64.02	8.21	QP
3	0.66	10.19	9.94	12.93	33.06	46.00	12.94	Average
4	0.66	10.19	9.94	27.51	47.64	56.00	8.36	QP
5	4.20	10.01	9.90	16.77	36.68	46.00	9.32	Average
6	4.20	10.01	9.90	25.80	45.71	56.00	10.29	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 298

File: \\Emc-CE-1\test data\2023\F\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 297

Site no : 1#CE Shield Room Data no. : 298
 Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : JACK
 EUT : POWER SUPPLY
 Power : AC 240V/50Hz
 M/N : FJ-SW729S0906000N
 Test Mode : Half Load(Output:9V/3A)

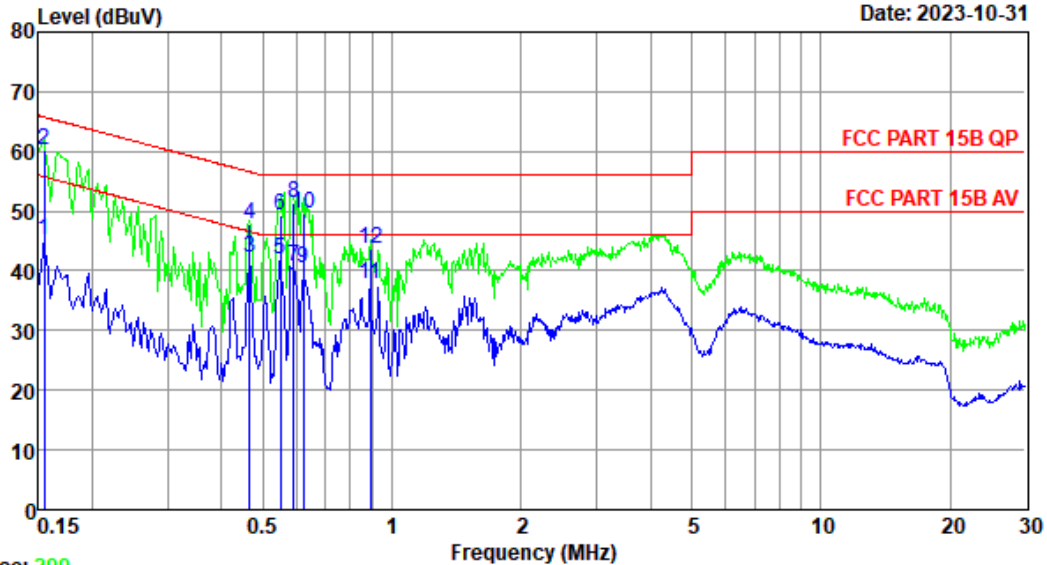
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	10.40	9.90	22.45	42.75	54.94	12.19	Average
2	0.17	10.40	9.90	38.69	58.99	64.94	5.95	QP
3	0.47	10.23	9.91	20.71	40.85	46.49	5.64	Average
4	0.47	10.23	9.91	27.87	48.01	56.49	8.48	QP
5	0.55	10.21	9.92	22.84	42.97	46.00	3.03	Average
6	0.55	10.21	9.92	31.50	51.63	56.00	4.37	QP
7	0.59	10.20	9.92	19.16	39.28	46.00	6.72	Average
8	0.59	10.20	9.92	29.00	49.12	56.00	6.88	QP
9	0.62	10.19	9.93	18.89	39.01	46.00	6.99	Average
10	0.62	10.19	9.93	28.70	48.82	56.00	7.18	QP
11	0.89	10.13	9.93	17.53	37.59	46.00	8.41	Average
12	0.89	10.13	9.93	23.55	43.61	56.00	12.39	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 300

File: \\Emc-CE-1\test data\2023\F\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 299

Site no : 1#CE Shield Room Data no. : 300
 Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : JACK
 EUT : POWER SUPPLY
 Power : AC 240V/50Hz
 M/N : FJ-SW729S0906000N
 Test Mode : Half Load(Output:9V/3A)

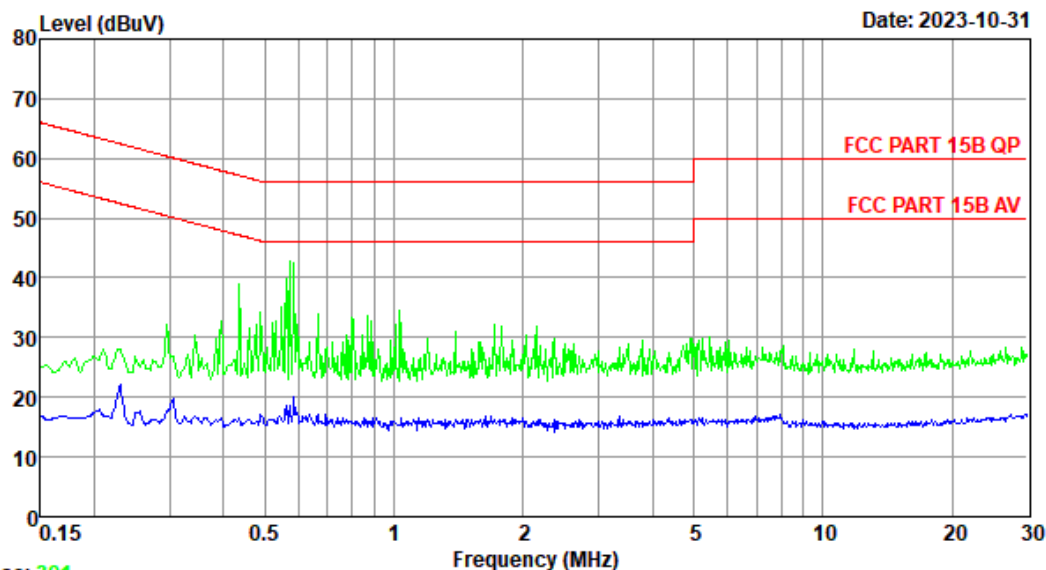
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.40	9.90	24.78	45.08	55.74	10.66	Average
2	0.15	10.40	9.90	39.94	60.24	65.74	5.50	QP
3	0.47	10.21	9.91	22.09	42.21	46.58	4.37	Average
4	0.47	10.21	9.91	27.66	47.78	56.58	8.80	QP
5	0.55	10.24	9.92	21.65	41.81	46.00	4.19	Average
6	0.55	10.24	9.92	29.10	49.26	56.00	6.74	QP
7	0.59	10.26	9.92	20.54	40.72	46.00	5.28	Average
8	0.59	10.26	9.92	31.12	51.30	56.00	4.70	QP
9	0.62	10.28	9.93	20.19	40.40	46.00	5.60	Average
10	0.62	10.28	9.93	29.25	49.46	56.00	6.54	QP
11	0.89	10.42	9.93	17.42	37.77	46.00	8.23	Average
12	0.89	10.42	9.93	23.35	43.70	56.00	12.30	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 302

File: \\Emc-CE-1\test data\2023\F\FuJia-1.EM6 (304)

Date: 2023-10-31



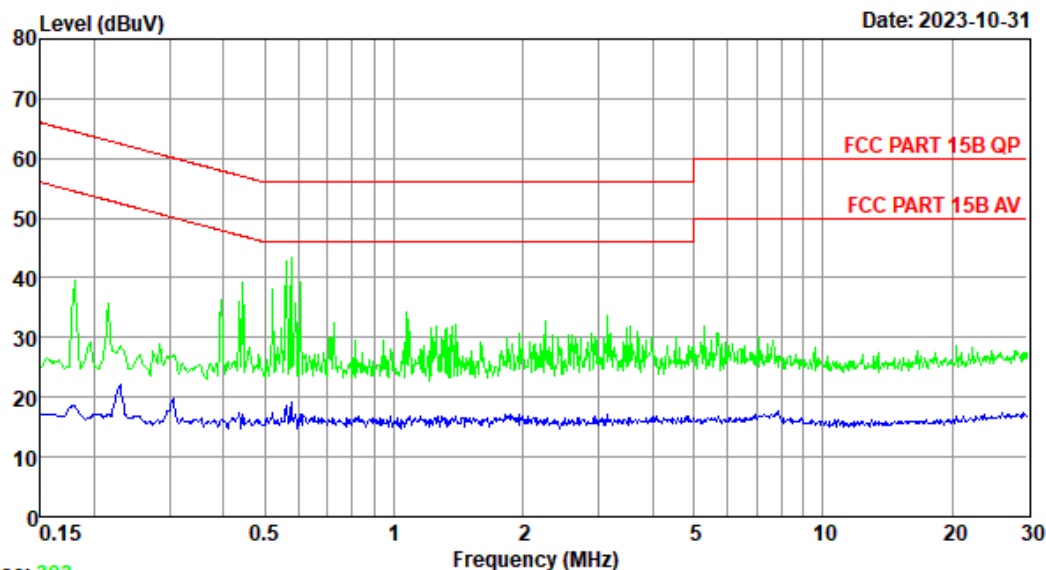
Trace: 301

Site no : 1#CE Shield Room Data no. : 302
Env. / Ins. : Temp:24.2°C;Humi:53%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S0906000N
Test Mode : No Load

Data: 304

File: \\Emc-CE-1\test data\2023\F\FuJia-1.EM6 (304)

Date: 2023-10-31



Trace: 303

Site no : 1#CE Shield Room Data no. : 304
Env. / Ins. : Temp:24.2°C Humi:53% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : JACK
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S0906000N
Test Mode : No Load

4.2. Radiated Emission Test (30MHz-1000MHz)

RESULT : **Pass**
Test procedure : ANSI C63.4-2014 amended as per ANSI C63.4a-2017
Frequency range : 30MHz-1000MHz
Test Site : 2#966 Chamber
Limits : FCC Part 15:2023 Class B / ICES-003:2020 Class B

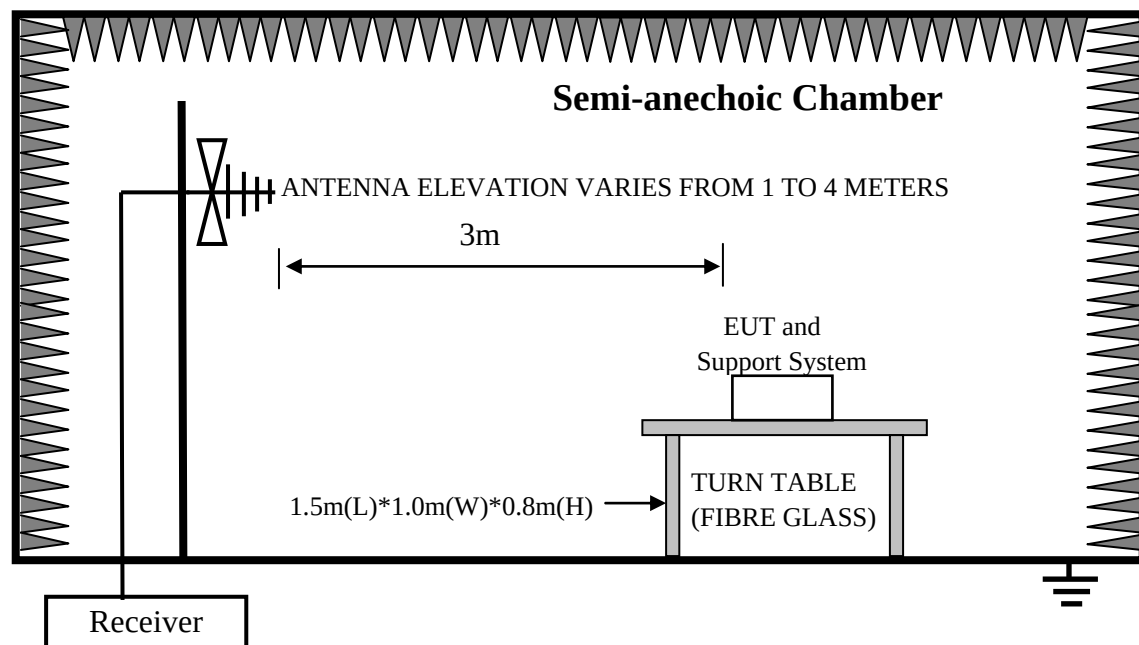
Test Setup

Date of test : Nov. 02, 2023
Model No. : FJ-SW729S2402500N, FJ-SW729S1006000N,
FJ-SW729S0906000N
Input Voltage : AC 120V/60Hz, AC 240V/50Hz
Operation Mode : Full Load, Half Load, No Load

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m distance from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.



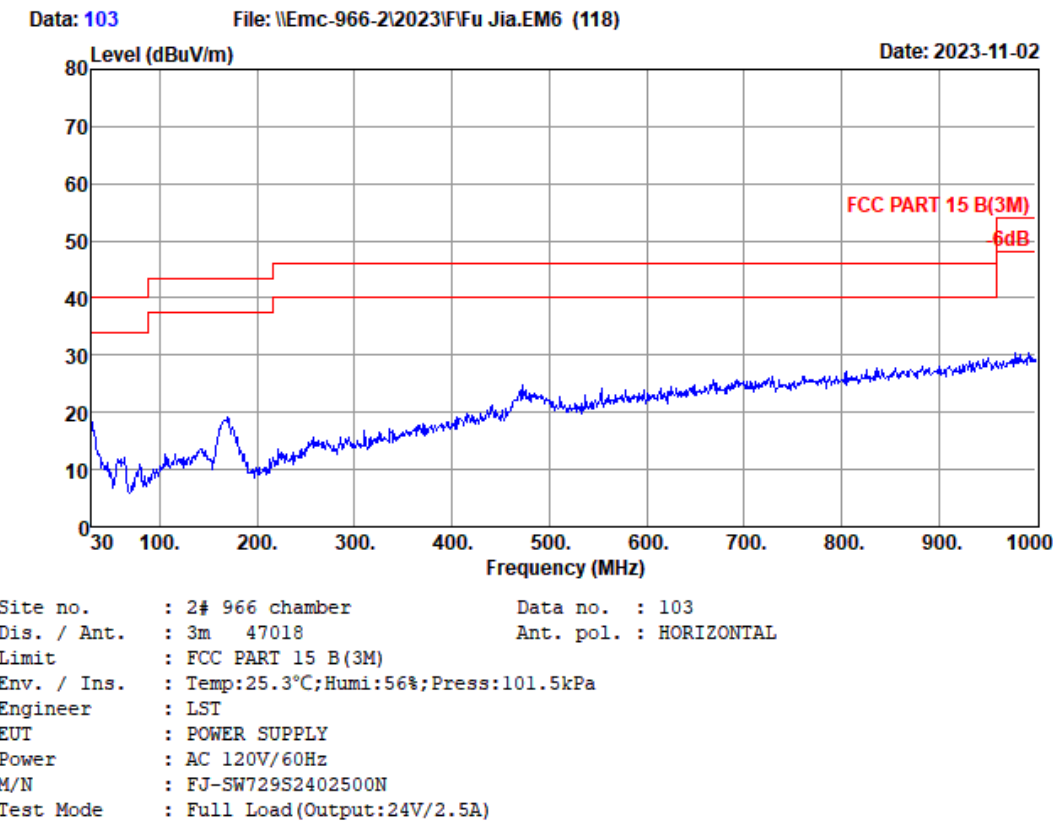
Note:

Test uncertainty: ± 4.26 dB (H); ± 4.84 dB (V) at a level of confidence of 95%.(2#966)

Test Data

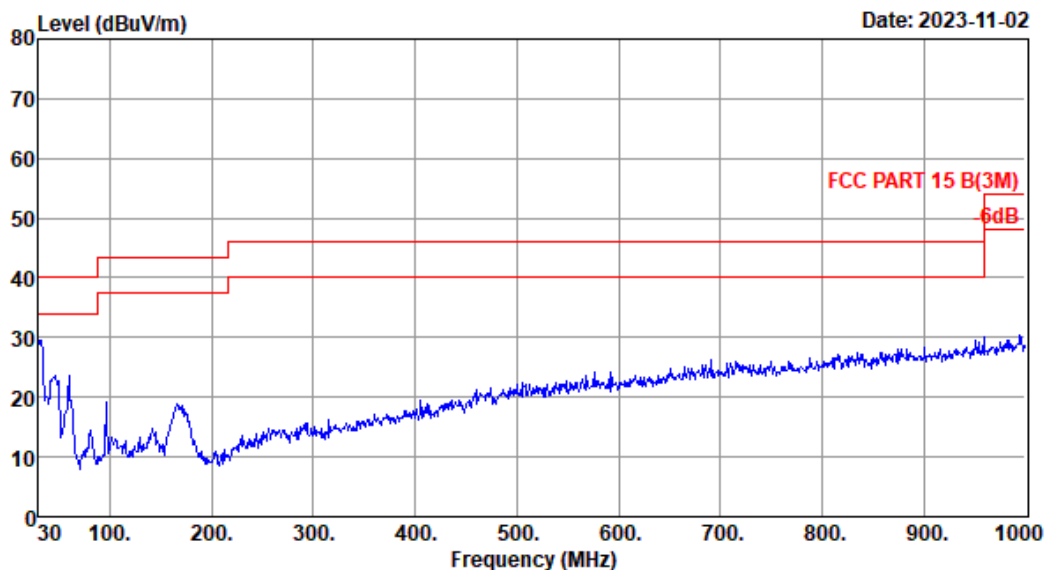
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel:+86-769-83081888
Fax:+86-769-83081878



Data: 104 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

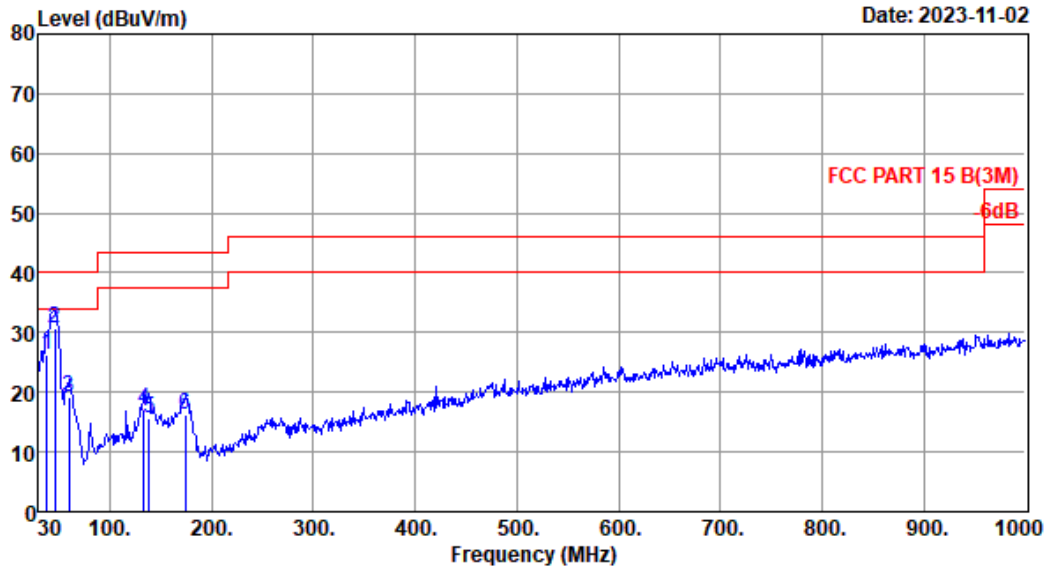
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 104
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S2402500N
Test Mode : Full Load(Output:24V/2.5A)

Data: 105 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

Date: 2023-11-02



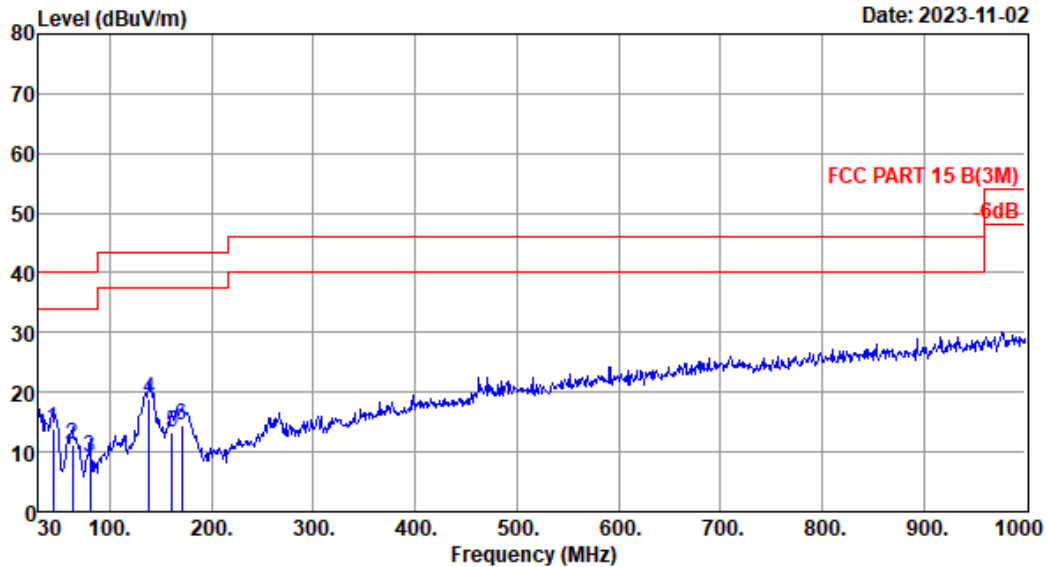
Site no. : 2# 966 chamber Data no. : 105
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : Full Load(Output:24V/2.5A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.76	13.00	0.64	12.51	26.15	40.00	13.85	QP
2	45.52	9.90	0.72	19.96	30.58	40.00	9.42	QP
3	60.07	5.10	0.92	13.21	19.23	40.00	20.77	QP
4	133.79	12.02	1.59	3.58	17.19	43.50	26.31	QP
5	138.64	12.80	1.56	1.42	15.78	43.50	27.72	QP
6	174.53	10.10	1.61	4.66	16.37	43.50	27.13	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 106 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

Date: 2023-11-02



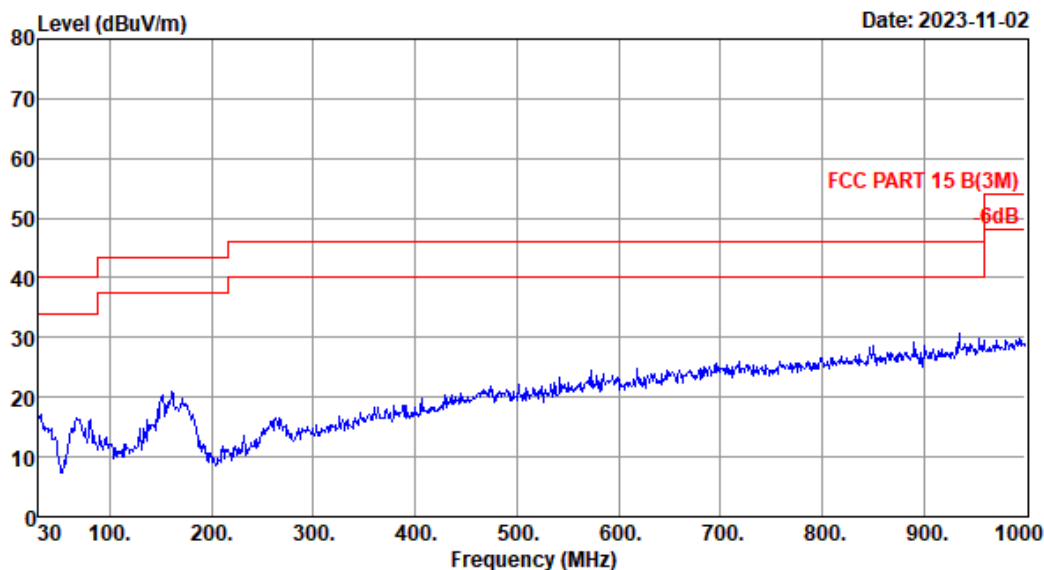
Site no. : 2# 966 chamber Data no. : 106
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : Full Load(Output:24V/2.5A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	44.55	10.35	0.71	2.68	13.74	40.00	26.26	QP
2	62.98	5.34	0.94	4.99	11.27	40.00	28.73	QP
3	80.44	7.70	1.04	0.45	9.19	40.00	30.81	QP
4	138.64	12.80	1.56	4.57	18.93	43.50	24.57	QP
5	160.95	11.46	1.54	0.40	13.40	43.50	30.10	QP
6	170.65	10.02	1.59	2.85	14.46	43.50	29.04	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 107 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

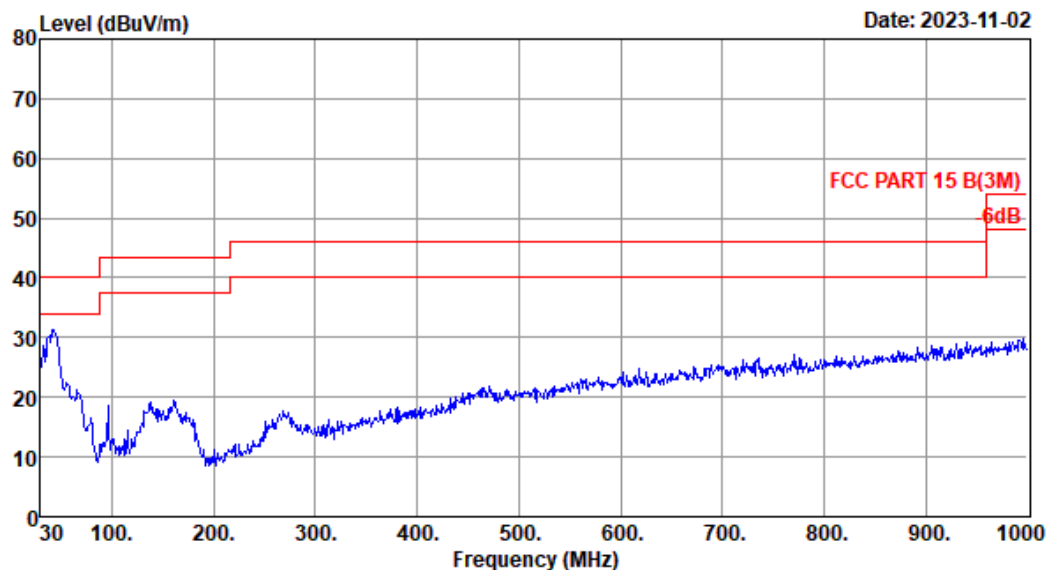
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 107
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

Data: 108 File: \\Emc-966-2\\2023\\F\\Fu Jia.EM6 (118)

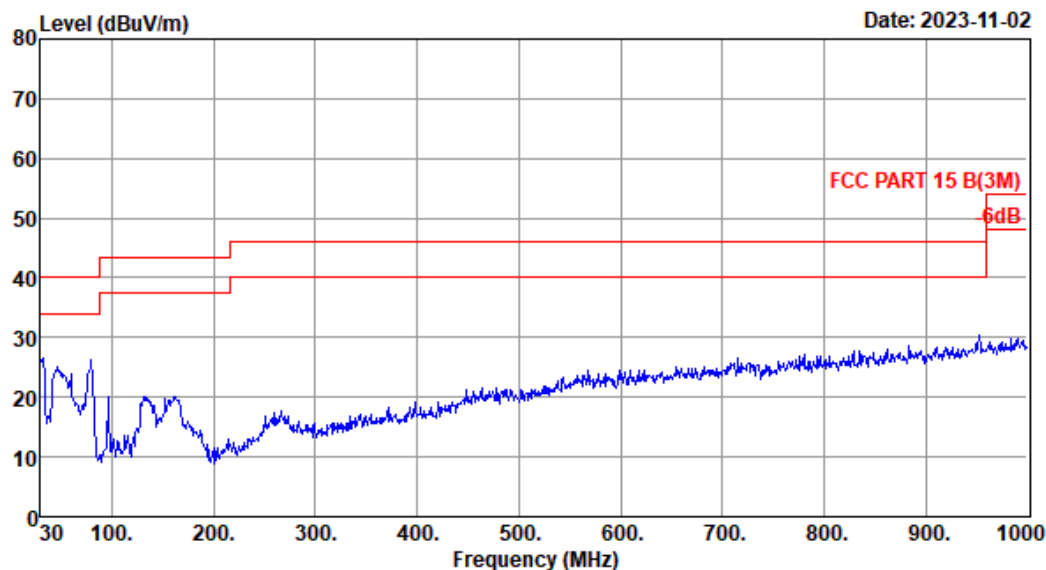
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 108
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

Data: 109 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

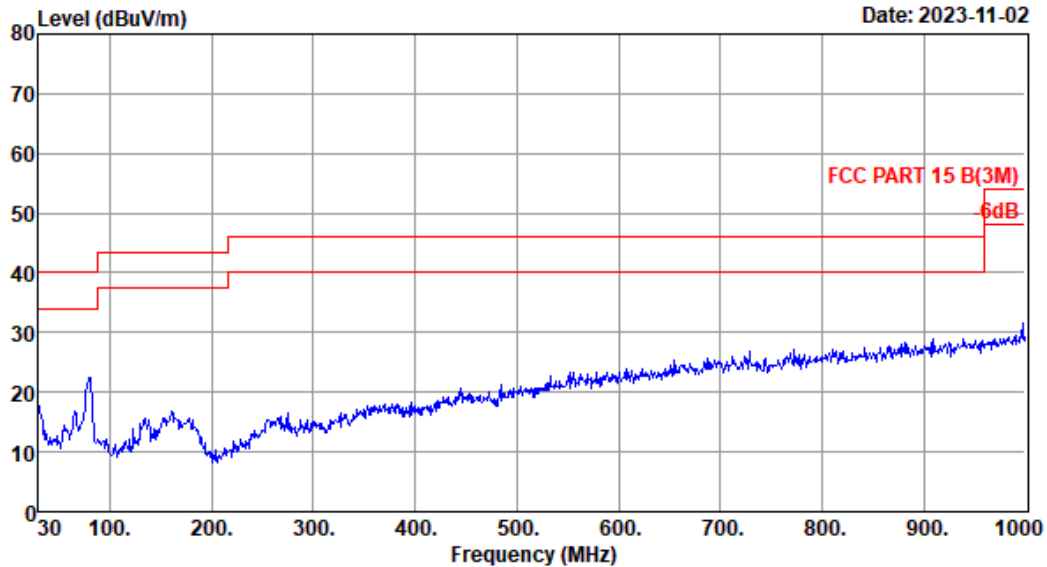
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 109
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

Data: 110 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

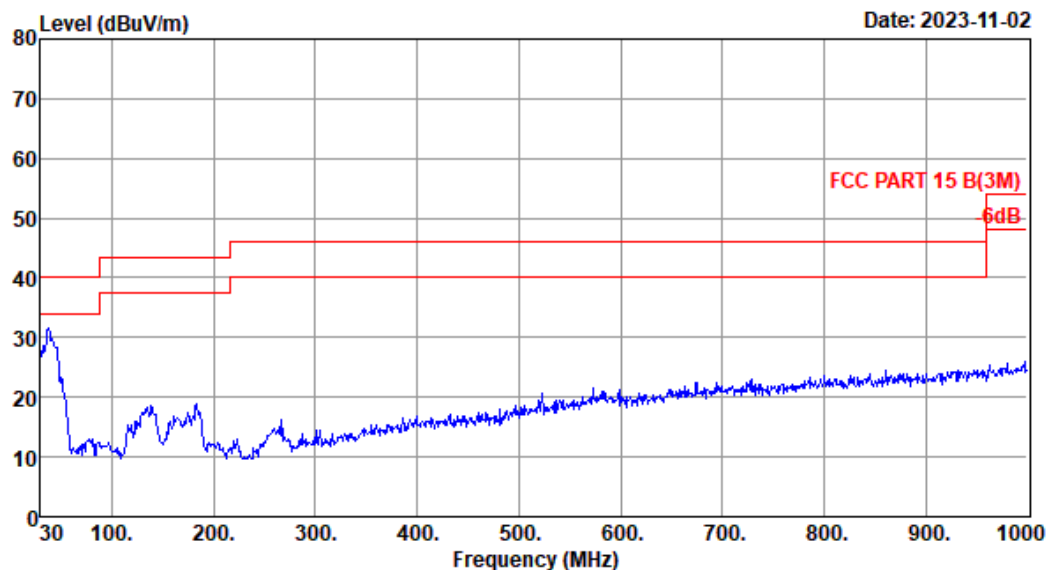
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 110
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S0906000N
Test Mode : Full Load(Output:9V/6A)

Data: 111 File: \\Emc-966-2\\2023\\F\\Fu Jia.EM6 (118)

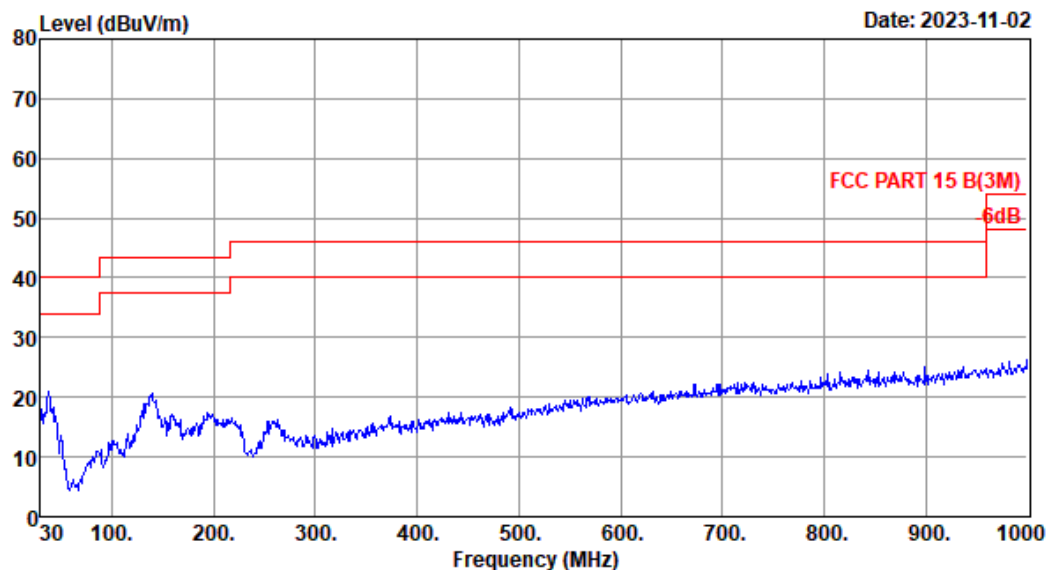
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 111
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

Data: 112 File: \\Emc-966-2\\2023\\F\\Fu Jia.EM6 (118)

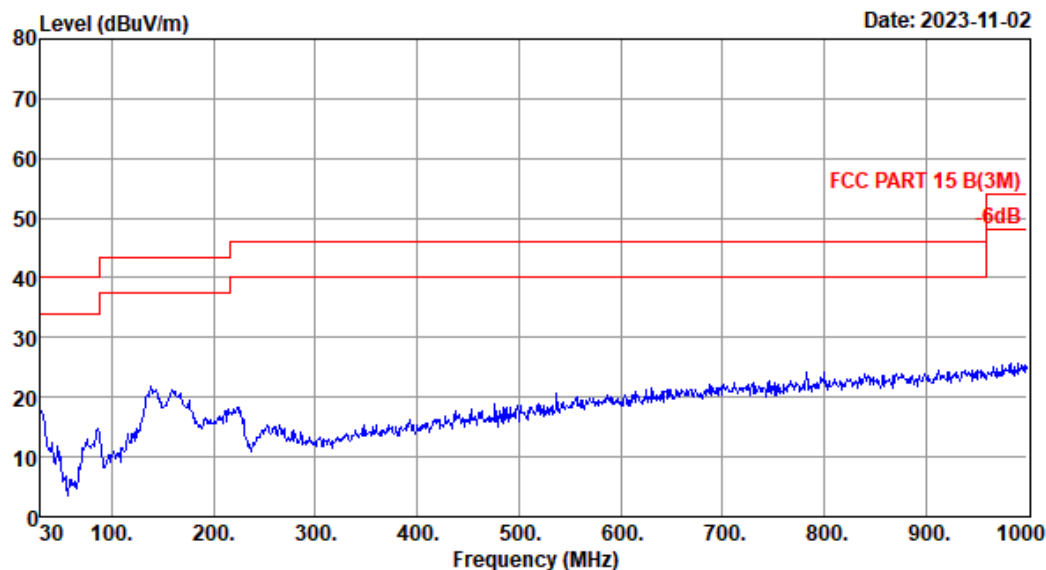
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 112
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

Data: 113 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

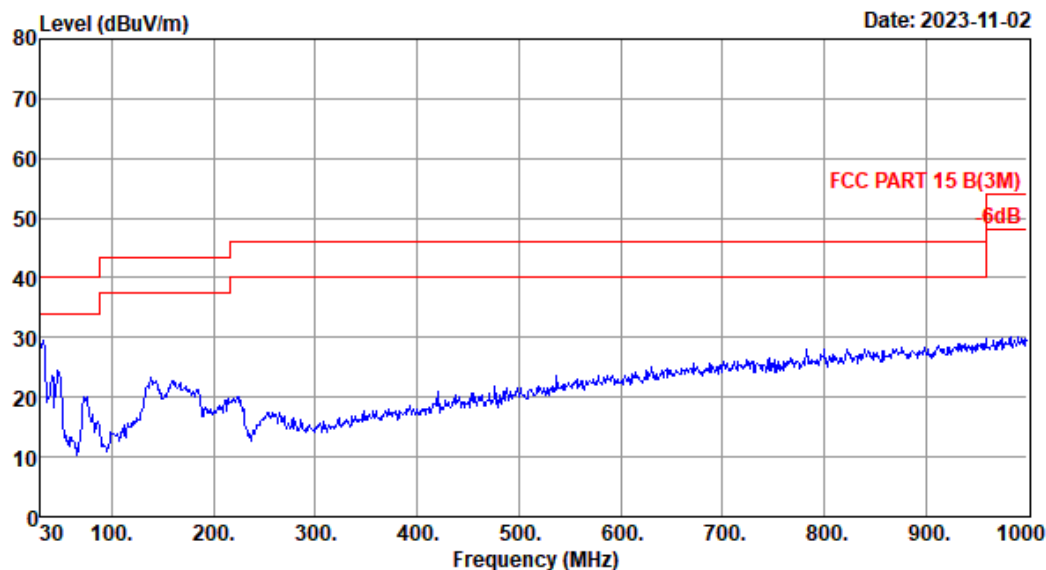
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 113
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

Data: 114 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

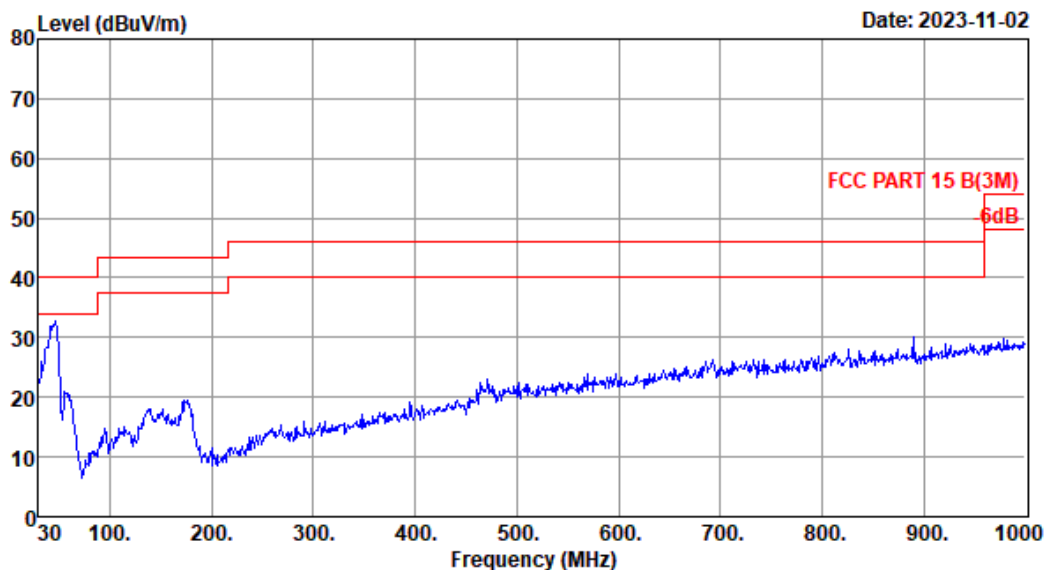
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 114
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 120V/60Hz
M/N : FJ-SW729S1006000N
Test Mode : Full Load(Output:10V/6A)

Data: 115 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

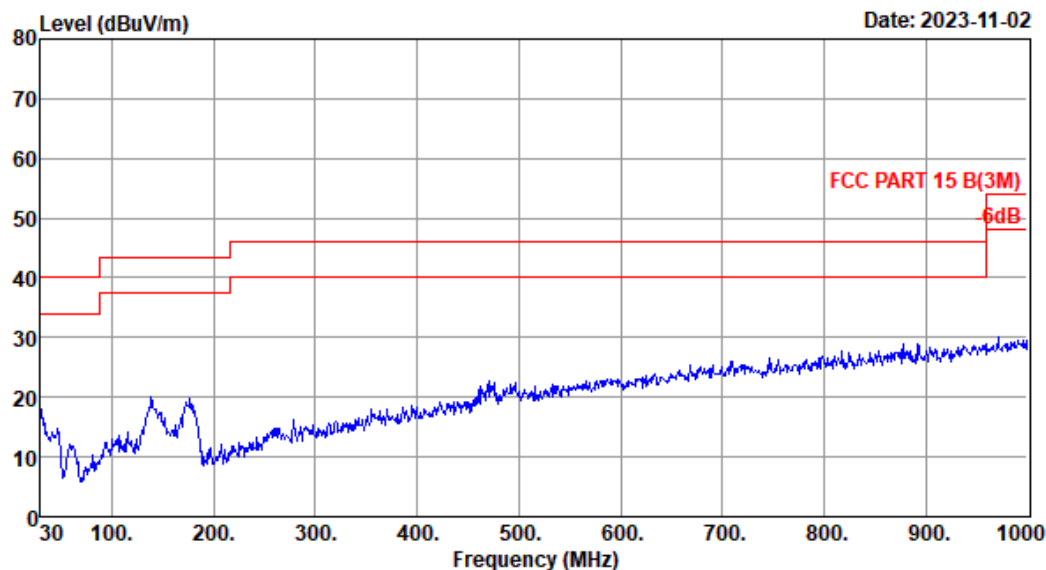
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 115
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : Half Load(Output:24V/1.25A)

Data: 116 File: \\Emc-966-2\\2023\\F\\Fu Jia.EM6 (118)

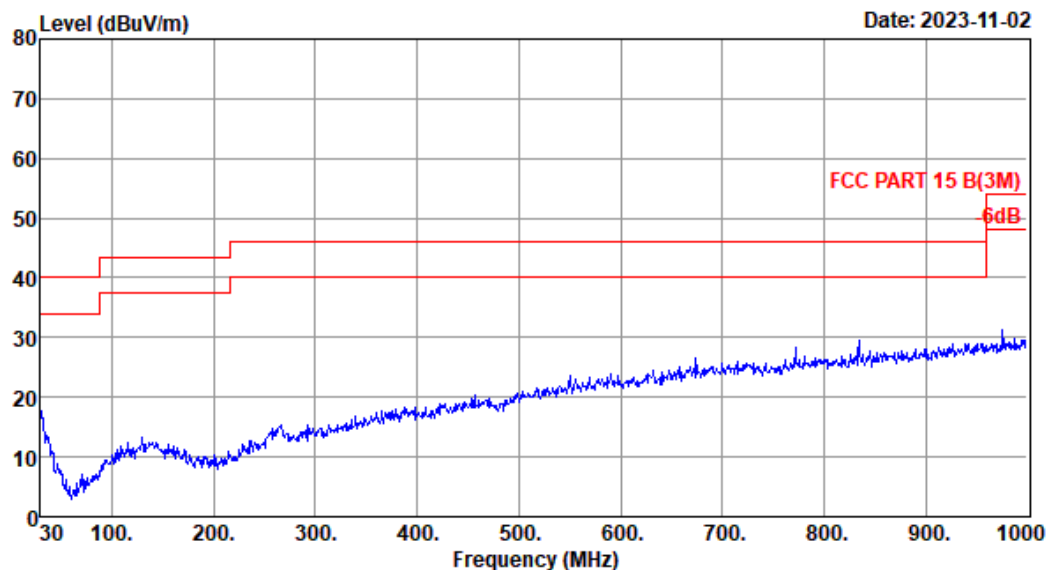
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 116
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : Half Load(Output:24V/1.25A)

Data: 117 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

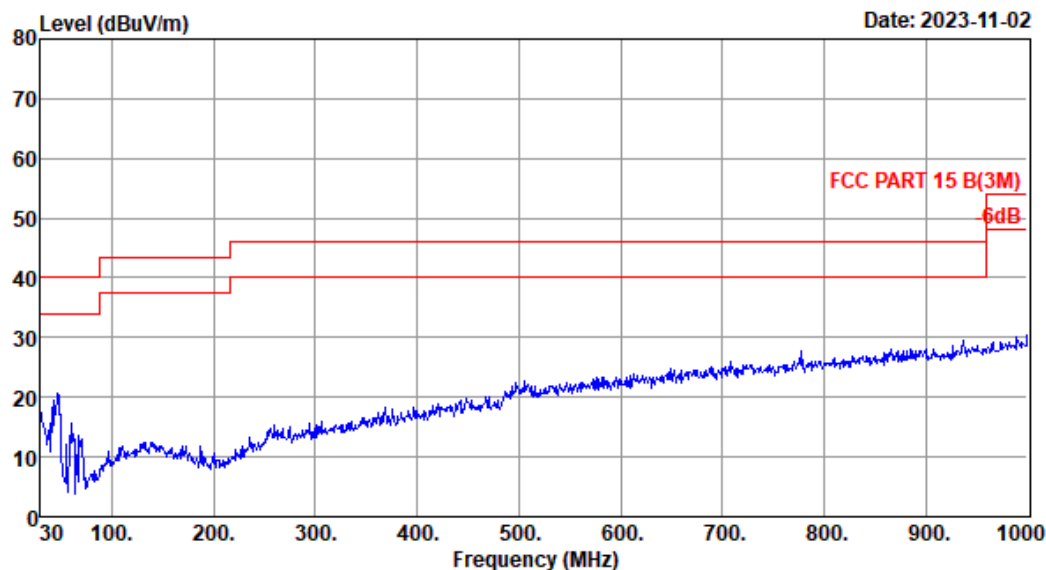
Date: 2023-11-02



Site no. : 2# 966 chamber Data no. : 117
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : No Load

Data: 118 File: \\Emc-966-2\2023\Fu Jia.EM6 (118)

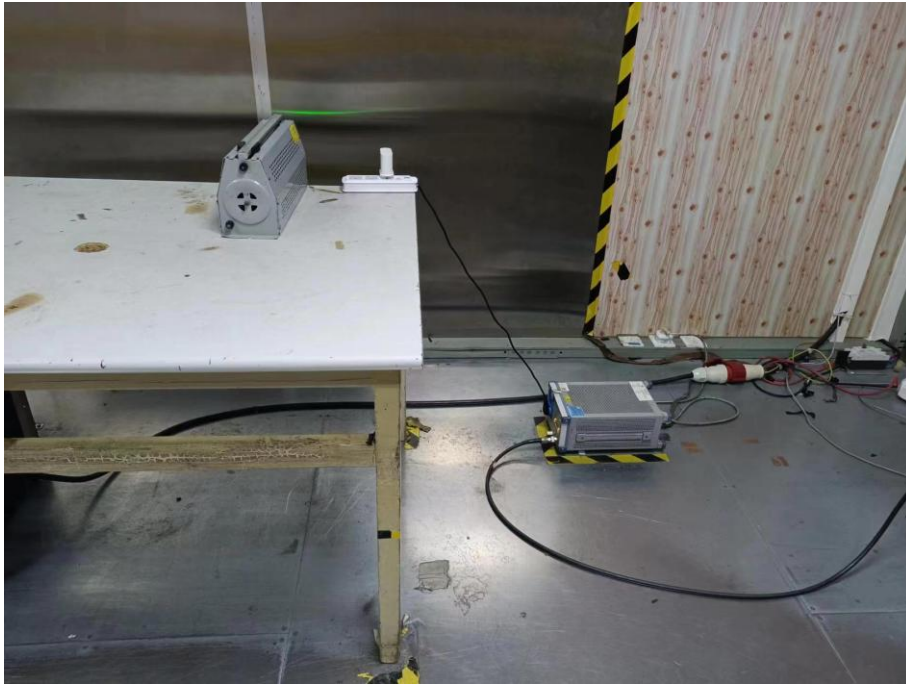
Date: 2023-11-02



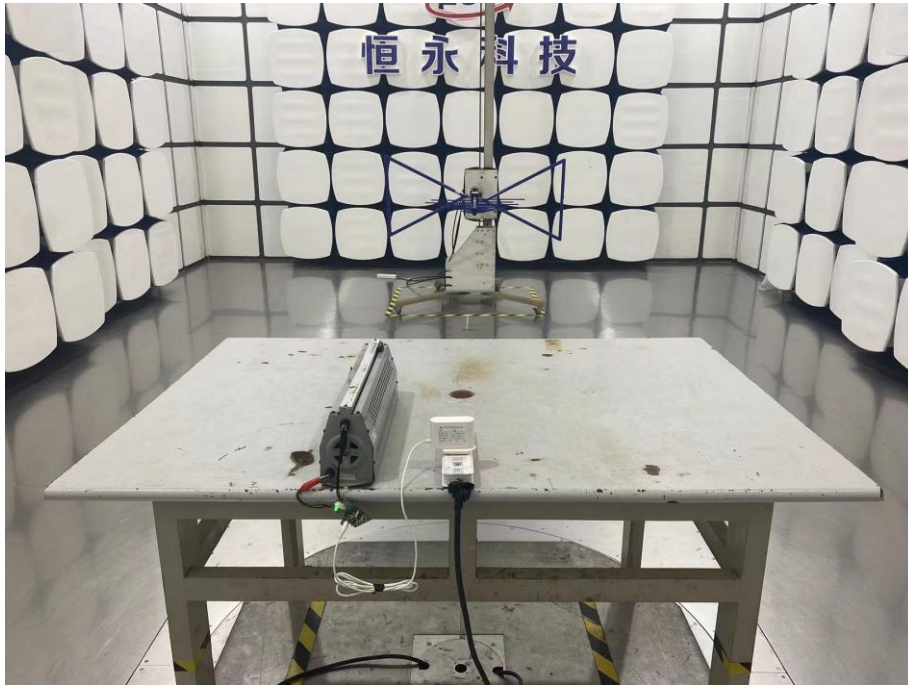
Site no. : 2# 966 chamber Data no. : 118
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.3°C;Humi:56%;Press:101.5kPa
Engineer : LST
EUT : POWER SUPPLY
Power : AC 240V/50Hz
M/N : FJ-SW729S2402500N
Test Mode : No Load

5. PHOTOGRAPHS OF TEST SET-UP

5.1.Set-up for Conducted Emission at the Mains Terminals Test



5.2.Set-up for Radiated Emission Test(30MHz-1000MHz)



6. PHOTOGRAPHS OF THE EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT

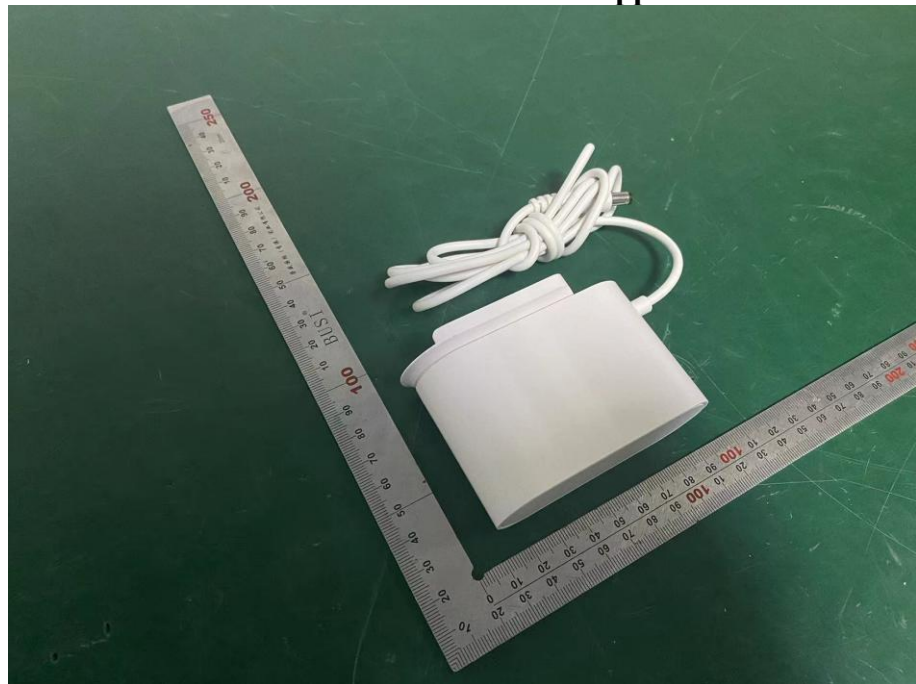


Figure 3
General Appearance of the EUT



Figure 4
Inside View of the EUT



Figure 5
Inside View of the EUT



M/N: FJ-SW729S2402500N

Figure 6
Inside View of the EUT

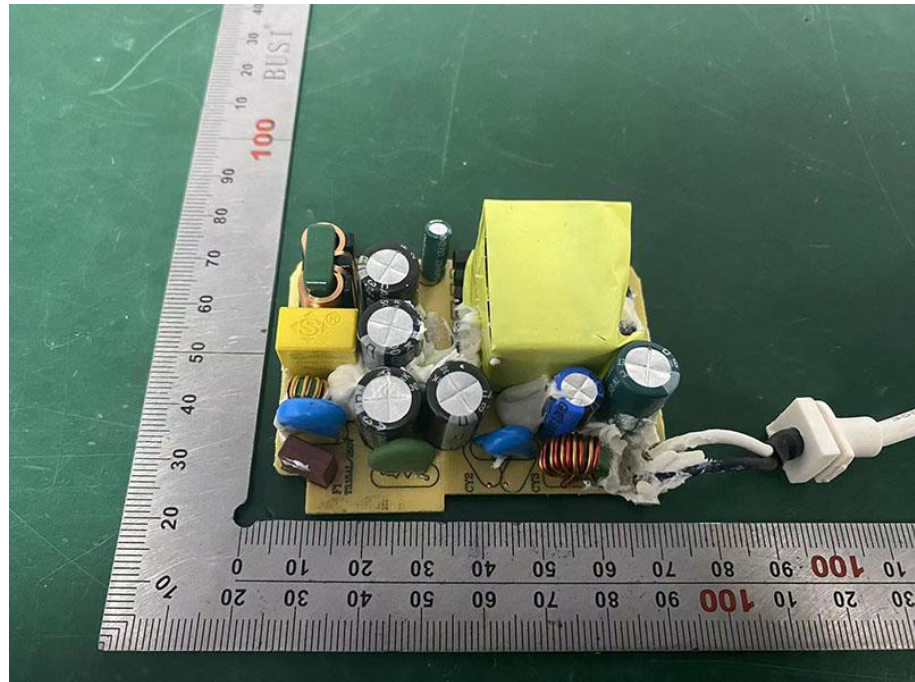
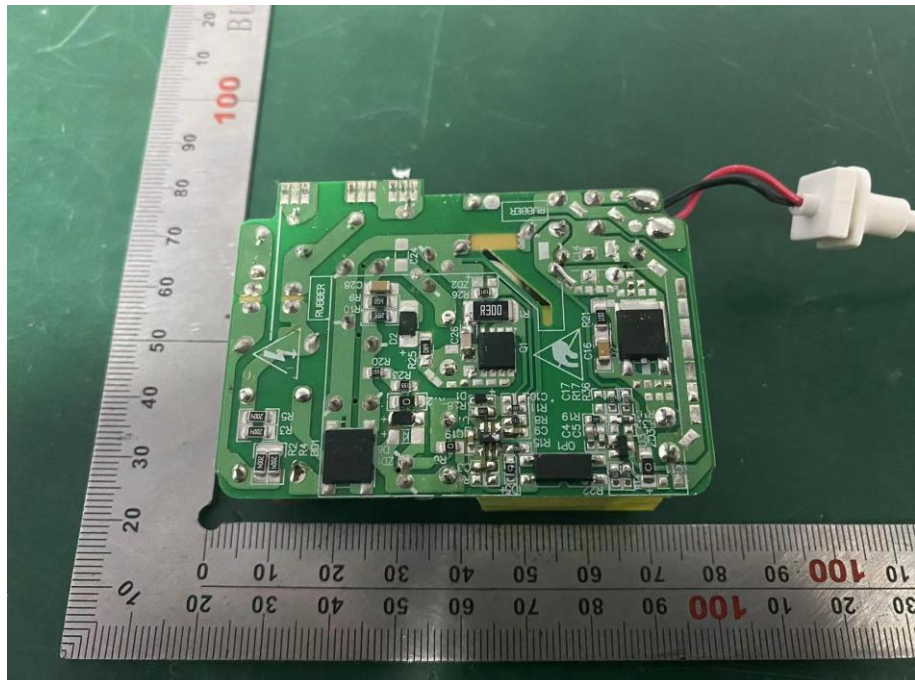


Figure 7
Inside View of the EUT



M/N: FJ-SW729S100600N

Figure 8
Inside View of the EUT

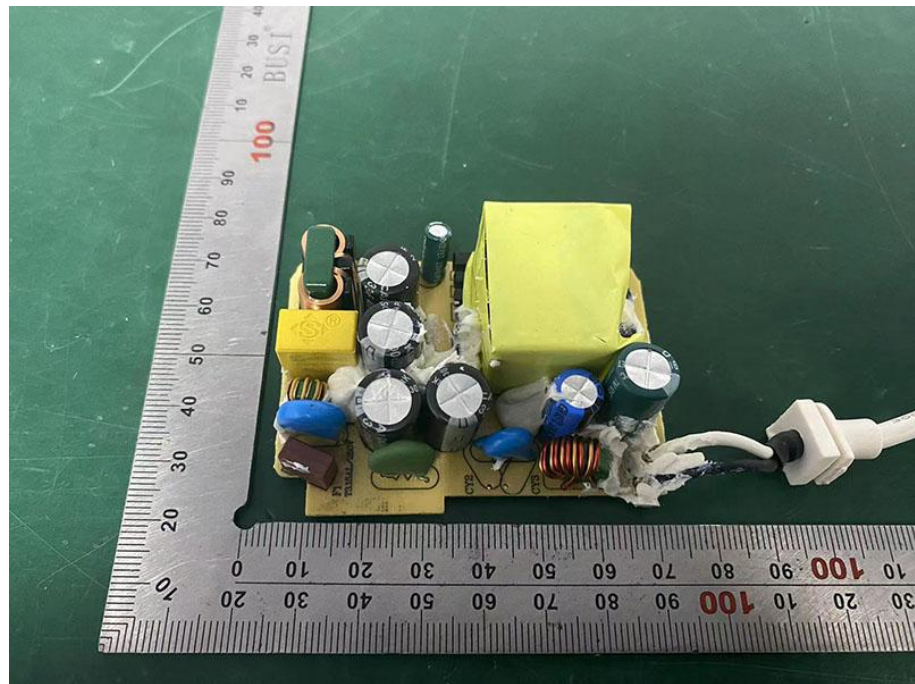
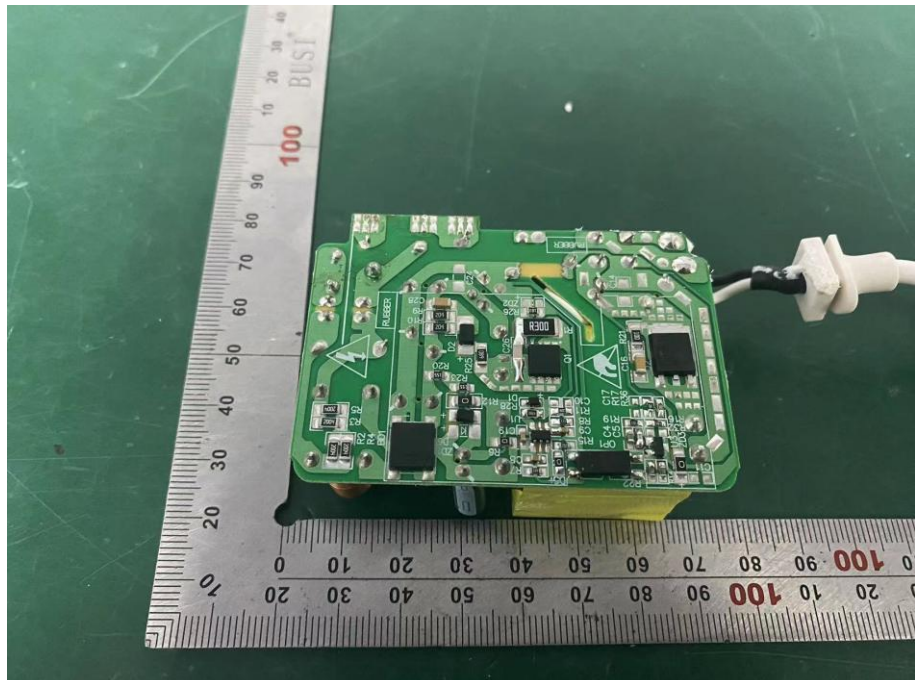


Figure 9
Inside View of the EUT



M/N: FJ-SW729S090600N

Figure 10
Inside View of the EUT

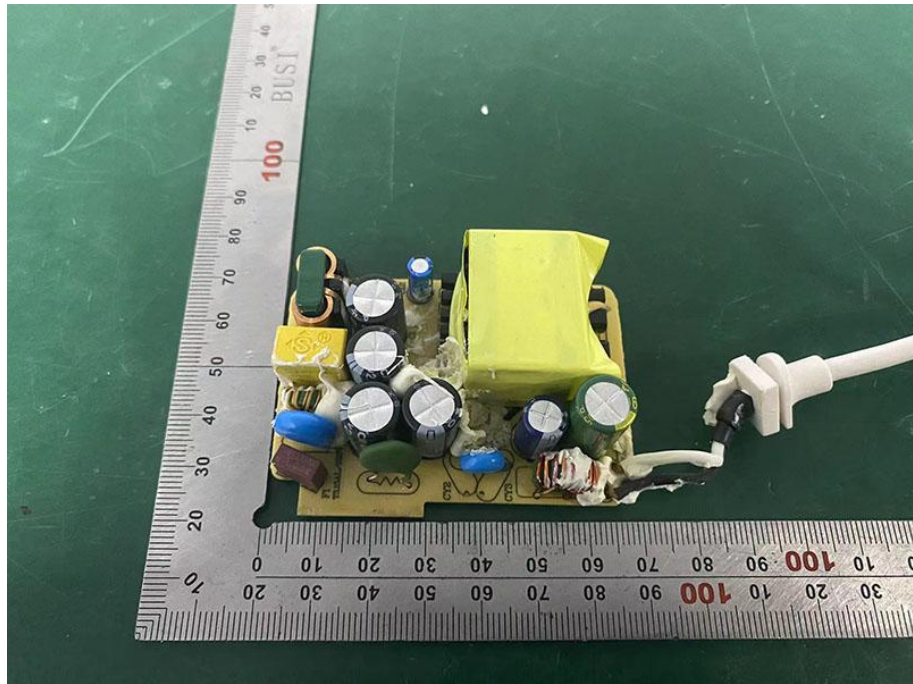
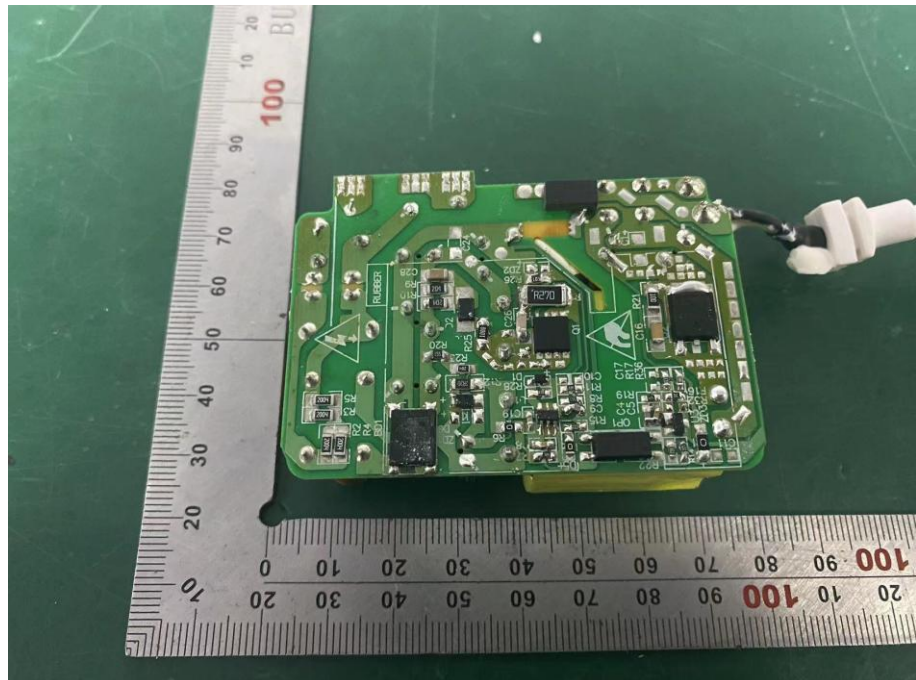


Figure 11
Inside View of the EUT



End of Test Report