



# **TEST REPORT**

Applicant Name: Grandstream Networks, Inc.

Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Report Number: 2401V58259E-EM-00

FCC ID: YZZHT802V2M1

Test Standard (s)

FCC Part 15, Subpart B (Class B)

**Sample Description** 

Product Type: Analog Telephone Adapter

Model No.: HT802 V2

Multiple Model(s) No.: N/A

Trade Mark: GRANDSTREAM
Date Received: 2024/07/10
Issue Date: 2024/08/23

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:** 

arl. Lu

**Approved By:** 

MoonLin

Carl Lu Moon Liu

EMC Engineer EMC Supervisor

Note: 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. Customer model name, addresses, names, trademarks etc. are included.

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# **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Report Number Description of Revision	
0	2401V58259E-EM-00	Original Report	2024/08/23

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## **GENERAL INFORMATION**

## **Product Description for Equipment under Test (EUT)**

Product	Analog Telephone Adapter
Tested Model	HT802 V2
Multiple Model(s)	N/A
Voltage Range	DC5V from adapter
Highest operating frequency <sup>#</sup>	1300MHz (Provided by the applicant)
Equipment Class	Class B
Sample number	HT802 V2: 208Z-1 Adapter 1: 208W-2 Adapter 2: 208W-3 Adapter 3: 208W-4 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter 1 Model: DCT06W050100US-D0 Input: AC 100-240V, 50/60Hz, 200mA Output: DC 5.0V, 1.0A Adapter 2 Model: GQ06-050100-ZU Input: AC 100-240V, 50/60Hz, 0.3A, Max Output: DC 5.0V, 1.0A Adapter 3 Model: A318-050100W-US2 Input: AC 100-240V, 50-60Hz, 0.2A Output: DC 5.0V, 1.0A

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## **Objective**

This test report is in accordance with Part 2-Subpart J, Part 15B Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15B.

#### **Measurement Uncertainty**

Item	Frequency Range		Expanded Measurement uncertainty
Conducted Emissions	AC Mains	150 kHz ~30MHz	3.84dB(k=2, 95% level of confidence)
	30MHz~200MHz	Horizontal	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz	Vertical	4.55dB(k=2, 95% level of confidence)
<b>5</b> 41 4	200MHz~1000MHz	Horizontal	4.85dB(k=2, 95% level of confidence)
Radiated Disturbance	200MHz~1000MHz	Vertical	5.05dB(k=2, 95% level of confidence)
Disturbance	1GHz~6GHz	/	5.35dB(k=2, 95% level of confidence)
	6GHz~18GHz	/	5.44dB(k=2, 95% level of confidence)
	18GHz~40GHz	/	5.16dB(k=2, 95% level of confidence)

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

## **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 715558, the FCC Designation No.: CN5045

Each test item follows test standards and with no deviation.

# **SYSTEM TEST CONFIGURATION**

## **Description of Test Configuration**

The system was configured for testing in worst case condition.

Test Mode1: Communication+ Adapter (DCT06W050100US-D0)

Test Mode2: Communication+ Adapter (GQ06-050100-ZU))

Test Mode3: Communication+ Adapter (A318-050100W-US2)

#### **EUT** exercise software

No exercise software was used.

# **Equipment Modifications**

No modification was made to the EUT tested.

## **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
Grandstream	IP Phone	GXV3480	T11223323B898
HIKVISION	Router	DS-3WR03	10021642429
DAERXIN	Telephone	RF-DP-200	N/A
Grandstream	Load board	N/A	N/A

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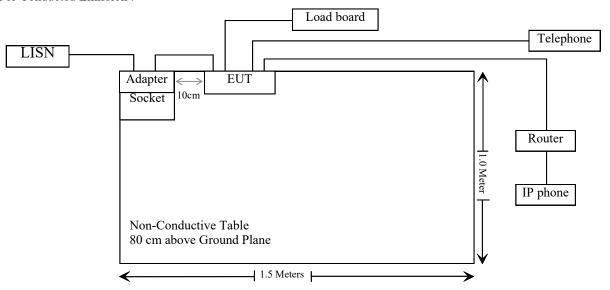
#### **External I/O Cable**

Cable Description	Length (m)	From/Port	То
Un-shielded un-detachable AC cable	1.2	Socket	Mains/LISN
Un-shielded un-detachable DC cable	2.5	Adapter	EUT
Un-shielded detachable RJ45 cable	10.0	EUT	Router
Un-shielded detachable RJ45 cable	1.5	Router	IP Phone
Un-shielded detachable RJ11 cable	10.0	EUT	Telephone
Un-shielded detachable RJ11 cable	1.5	EUT	Load board

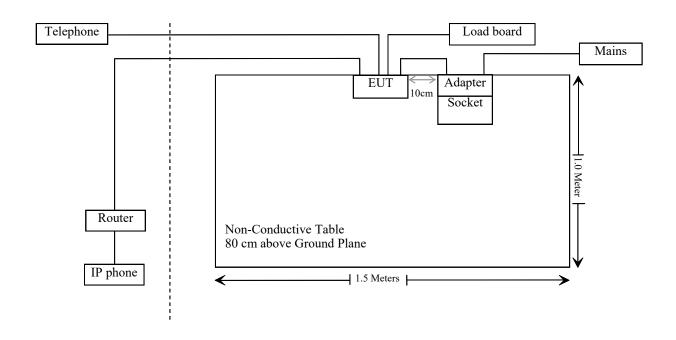
# **Block Diagram of Test Setup**

Test Mode1&2&3

For Conducted Emission:



For Radiated Emission:



# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

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# **TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
AC Line Conducted Emission Test								
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15			
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15			
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20			
Unknown	CE Cable	Unknown	UF A210B-1- 0720-504504	2024/05/21	2025/05/20			
Audix	EMI Test software	E3	191218(V9)	NCR	NCR			
	F	Radiated Emission	n Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15			
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20			
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19			
Unknown	Unknown Cable		N/A	2024/06/18	2025/06/17			
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17			
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR			
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26			
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17			
Schwarzbeck	Schwarzbeck Horn Antenna		1143	2023/07/26	2026/07/25			
Unknown	RF Cable	KMSE	735	2024/06/18	2025/06/17			
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17			
Audix	EMI Test software	Е3	191218(V9)	NCR	NCR			

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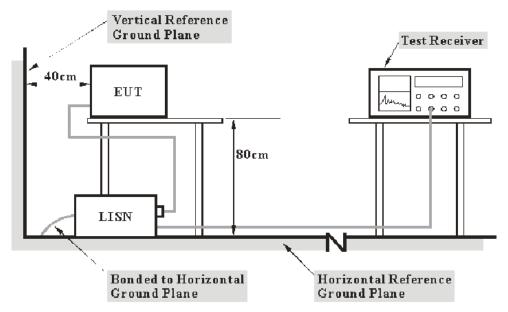
<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# FCC §15.107 - AC LINE CONDUCTED EMISSIONS

#### **Applicable Standard**

According to FCC§15.107

#### **EUT Setup**



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107.

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

The spacing between the peripherals was 10 cm.

## **EMI Test Receiver Setup**

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

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**

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

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

#### **Level & Over Limit Calculation**

The Level is calculated by adding the LISN Factor, Cable Loss and the Read Level. The basic equation is as follows:

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The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit.

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

#### **Test Data**

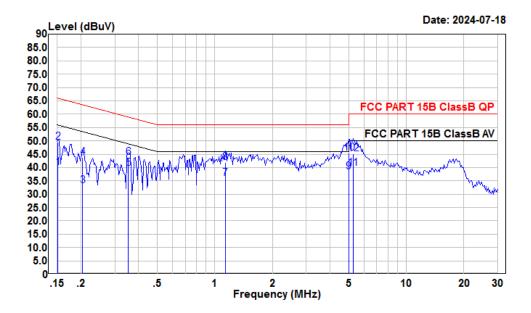
#### **Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	67 %
ATM Pressure:	101 kPa

The testing was performed by Macy Shi on 2024-07-18.

Test Mode 1

#### AC 120V/60 Hz, Line



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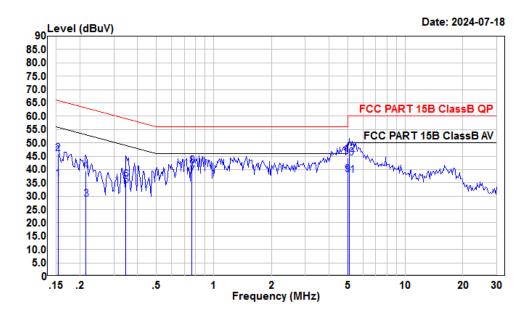
Condition: Line

Project : 2401V58259E-EM

test Mode: Mode1 tester : Macy.shi

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.15	18.97	40.00	10.90	10.13	55.91	-15.91	Average
2	0.15	28.50	49.53	10.90	10.13	65.91	-16.38	QP
3	0.20	12.35	33.23	10.79	10.09	53.45	-20.22	Average
4	0.20	22.99	43.87	10.79	10.09	63.45	-19.58	QP
5	0.35	19.00	39.73	10.61	10.12	48.87	-9.14	Average
6	0.35	23.01	43.74	10.61	10.12	58.87	-15.13	QP
7	1.14	15.21	35.78	10.44	10.13	46.00	-10.22	Average
8	1.14	21.36	41.93	10.44	10.13	56.00	-14.07	QP
9	5.00	17.72	38.28	10.38	10.18	50.00	-11.72	Average
10	5.00	24.73	45.29	10.38	10.18	60.00	-14.71	QP
11	5.28	19.10	39.68	10.40	10.18	50.00	-10.32	Average
12	5.28	24.65	45.23	10.40	10.18	60.00	-14.77	<b>OP</b>

## AC 120V/60 Hz, Neutral



Report No.: 2401V58259E-EM-00

Condition: Neutral

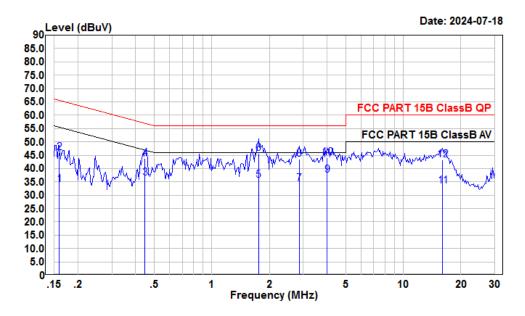
Project : 2401V58259E-EM

test Mode: Mode1 tester : Macy.shi

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.15	15.75	36.47	10.59	10.13	55.82	-19.35	Average
2	0.15	25.32	46.04	10.59	10.13	65.82	-19.78	QP
3	0.22	8.36	28.87	10.42	10.09	53.01	-24.14	Average
4	0.22	18.91	39.42	10.42	10.09	63.01	-23.59	QP
5	0.35	13.31	34.01	10.58	10.12	49.05	-15.04	Average
6	0.35	15.52	36.22	10.58	10.12	59.05	-22.83	QP
7	0.77	16.63	37.51	10.75	10.13	46.00	-8.49	Average
8	0.77	20.59	41.47	10.75	10.13	56.00	-14.53	QP
9	5.00	17.43	38.13	10.52	10.18	50.00	-11.87	Average
10	5.00	23.72	44.42	10.52	10.18	60.00	-15.58	QP
11	5.11	17.04	37.75	10.53	10.18	50.00	-12.25	Average
12	5.11	24.89	45.60	10.53	10.18	60.00	-14.40	QP

Test Mode 2

#### AC 120V/60 Hz, Line



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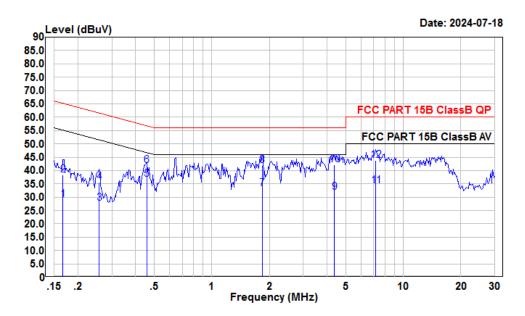
Condition: Line

Project : 2401V58259E-EM

test Mode: Mode2 tester : Macy.shi

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	12.95	33.95	10.88	10.12	55.47	-21.52	Average
2	0.16	24.95	45.95	10.88	10.12	65.47	-19.52	QP
3	0.45	15.76	36.42	10.54	10.12	46.93	-10.51	Average
4	0.45	23.11	43.77	10.54	10.12	56.93	-13.16	QP
5	1.75	14.92	35.66	10.56	10.18	46.00	-10.34	Average
6	1.75	24.89	45.63	10.56	10.18	56.00	-10.37	QP
7	2.85	13.61	34.24	10.45	10.18	46.00	-11.76	Average
8	2.85	22.87	43.50	10.45	10.18	56.00	-12.50	QP
9	4.01	16.90	37.41	10.30	10.21	46.00	-8.59	Average
10	4.01	23.50	44.01	10.30	10.21	56.00	-11.99	QP
11	16.06	12.52	33.40	10.67	10.21	50.00	-16.60	Average
12	16.06	22.48	43.36	10.67	10.21	60.00	-16.64	QP

## AC 120V/60 Hz, Neutral



Report No.: 2401V58259E-EM-00

Condition: Neutral

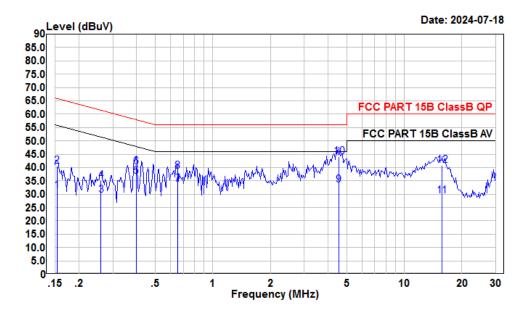
Project : 2401V58259E-EM

test Mode: Mode2 tester : Macy.shi

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.17	8.44	29.07	10.53	10.10	55.12	-26.05	Average
2	0.17	17.84	38.47	10.53	10.10	65.12	-26.65	QP
3	0.26	7.19	27.75	10.48	10.08	51.51	-23.76	Average
4	0.26	15.04	35.60	10.48	10.08	61.51	-25.91	QP
5	0.46	16.02	36.81	10.67	10.12	46.76	-9.95	Average
6	0.46	21.04	41.83	10.67	10.12	56.76	-14.93	QP
7	1.83	12.52	33.16	10.46	10.18	46.00	-12.84	Average
8	1.83	21.27	41.91	10.46	10.18	56.00	-14.09	QP
9	4.36	11.16	31.81	10.45	10.20	46.00	-14.19	Average
10	4.36	21.53	42.18	10.45	10.20	56.00	-13.82	QP
11	7.18	13.41	34.31	10.71	10.19	50.00	-15.69	Average
12	7.18	22.77	43.67	10.71	10.19	60.00	-16.33	QP

Test Mode 3

#### AC 120V/60 Hz, Line



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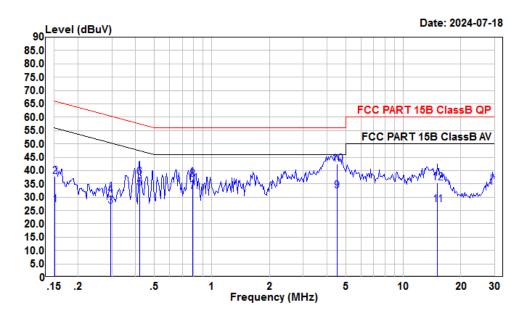
Condition: Line

Project : 2401V58259E-EM

test Mode: Mode3 tester : Macy.shi

	_	Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.15	10.23	31.25	10.89	10.13	55.82	-24.57	Average
2	0.15	19.37	40.39	10.89	10.13	65.82	-25.43	QP
3	0.26	8.77	29.57	10.71	10.09	51.42	-21.85	Average
4	0.26	14.30	35.10	10.71	10.09	61.42	-26.32	QP
5	0.40	15.99	36.67	10.58	10.10	47.90	-11.23	Average
6	0.40	19.53	40.21	10.58	10.10	57.90	-17.69	QP
7	0.65	13.00	33.64	10.50	10.14	46.00	-12.36	Average
8	0.65	17.97	38.61	10.50	10.14	56.00	-17.39	QP
9	4.55	12.92	33.46	10.35	10.19	46.00	-12.54	Average
10	4.55	23.47	44.01	10.35	10.19	56.00	-11.99	QP
11	15.72	8.59	29.45	10.65	10.21	50.00	-20.55	Average
12	15.72	19.93	40.79	10.65	10.21	60.00	-19.21	QP

## AC 120V/60 Hz, Neutral



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Condition: Neutral

Project : 2401V58259E-EM

test Mode: Mode3 tester : Macy.shi

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.15	6.58	27.30	10.59	10.13	55.91	-28.61	Average
2	0.15	17.13	37.85	10.59	10.13	65.91	-28.06	QP
3	0.30	6.01	26.65	10.53	10.11	50.37	-23.72	Average
4	0.30	10.21	30.85	10.53	10.11	60.37	-29.52	QP
5	0.42	12.64	33.39	10.64	10.11	47.46	-14.07	Average
6	0.42	16.75	37.50	10.64	10.11	57.46	-19.96	QP
7	0.79	11.26	32.15	10.77	10.12	46.00	-13.85	Average
8	0.79	15.75	36.64	10.77	10.12	56.00	-19.36	QP
9	4.50	11.66	32.31	10.46	10.19	46.00	-13.69	Average
10	4.50	21.80	42.45	10.46	10.19	56.00	-13.55	QP
11	15.07	6.29	27.31	10.80	10.22	50.00	-22.69	Average
12	15.07	14.34	35.36	10.80	10.22	60.00	-24.64	QP

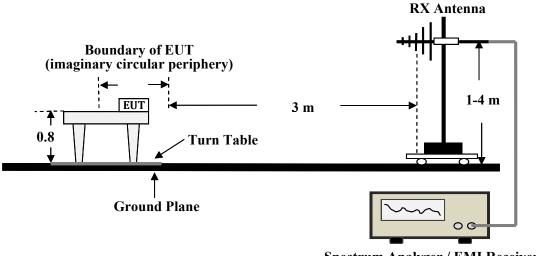
# FCC §15.109 - RADIATED EMISSIONS

## **Applicable Standard**

FCC §15.109

## **EUT Setup**

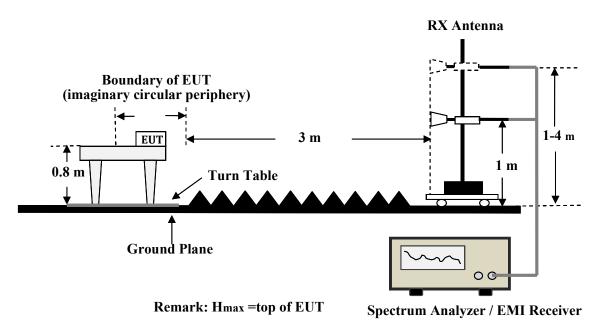
#### **Below 1GHz for Radiated Emissions**



**Spectrum Analyzer / EMI Receiver** 

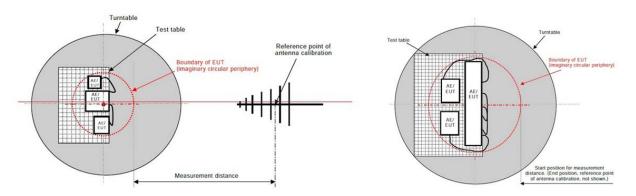
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## **Above 1GHz for Radiated Emissions**



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#### **Radiated Emissions Setup Configuration**



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The related limit was specified in FCC Part 15B.

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

The spacing between the peripherals was 10 cm.

## **EMI Test Receiver and Spectrum analyzer Setup**

During the radiated emission test, the EMI test receiver and spectrum analyzer setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	10 Hz	/	Ave.

#### **Test Procedure**

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

If emission level of the EUT in Peak measurement mode is 20dB lower than peak limit line (that means the emission level in Peak measurement mode complies with both Peak and average limit lines) then only Peak measurement result is reported .Otherwise, Emission in average measurement mode shall be measured, and reported for frequency range above 1GHz.

#### **Level & Over Limit Calculation**

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Read Level. The basic equation is as follows:

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Factor = Antenna Factor + Cable Loss - Amplifier Gain

Level = Read Level + Factor

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -6 dB means the emission is 6dB below the limit for Class B. The equation for Over Limit calculation is as follows:

Over limit = Level– Limit

#### **Test Data**

#### **Environmental Conditions**

Temperature:	26°C
Relative Humidity:	51~56 %
ATM Pressure:	101~101.2 kPa

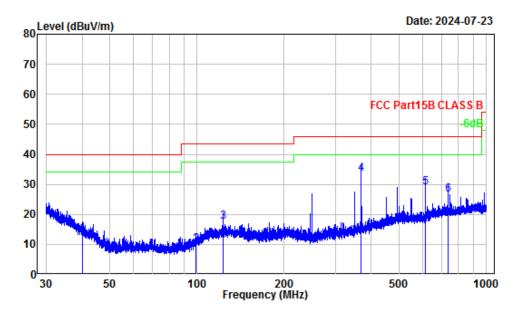
The testing was performed by Shy Jiang on 2024-07-23 for below 1GHz and Sadow Tan on 2024-07-27 for above 1GHz.

Test Mode 1

#### 30 MHz~1 GHz

#### Horizontal

Report No.: 2401V58259E-EM-00



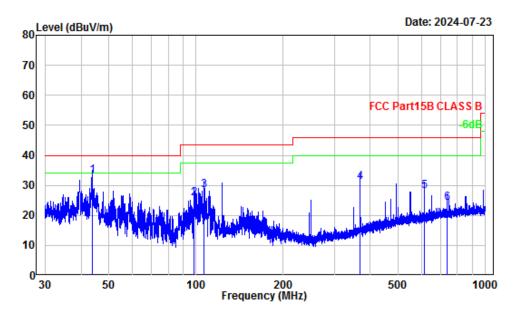
Site : Chamber A Condition : 3m Horizontal Project Number: 2401V58259E-EM

Test Mode : Mode1
Tester : Shy Jiang

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.13	-11.60	25.06	13.46	40.00	-26.54	QP
2	99.09	-15.67	25.51	9.84	43.50	-33.66	QP
3	122.83	-12.28	29.69	17.41	43.50	-26.09	QP
4		-11.46	44.99	33.53	46.00	-12.47	QP
5	614.48	-7.81	36.87	29.06	46.00	-16.94	QP
	737.39	-5.70	32.41	26.71	46.00	-19.29	QP

## Vertical

Report No.: 2401V58259E-EM-00



Site : Chamber A Condition : 3m Vertical Project Number: 2401V58259E-EM

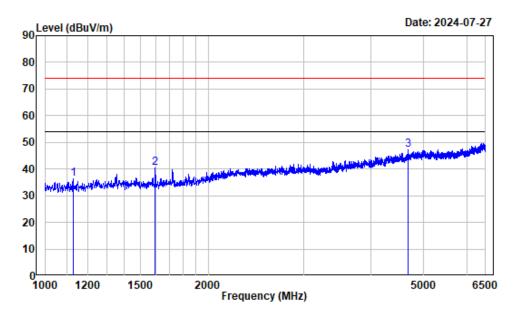
Test Mode : Mode1 Tester : Shy Jiang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	43.77	-15.15	48.29	33.14	40.00	-6.86	QP
2	98.49	-17.23	42.75	25.52	43.50	-17.98	QP
3	106.71	-15.15	43.45	28.30	43.50	-15.20	QP
4	368.76	-11.72	42.78	31.06	46.00	-14.94	QP
5	614.48	-7.92	36.04	28.12	46.00	-17.88	QP
6	737.39	-6.17	30.34	24.17	46.00	-21.83	QP

## 1 ~ 6.5 GHz

#### Horizontal

Report No.: 2401V58259E-EM-00



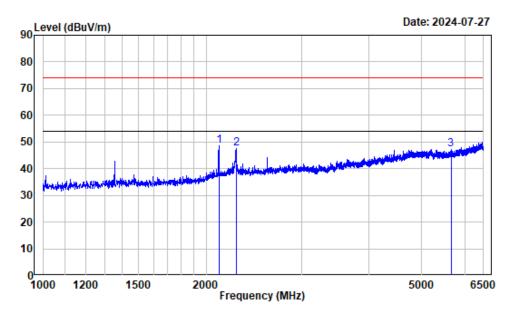
Site : chamber B Condition : Horizontal Project No.: 2401V58259E-EM

Tester : Sadow Tan Test Mode : Mode 1

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1127.781	-8.17	44.63	36.46	74.00	-37.54	Peak
2	1596.313	-7.18	47.51	40.33	74.00	-33.67	Peak
3	4679.219	1.85	45.37	47.22	74.00	-26.78	Peak

## Vertical

Report No.: 2401V58259E-EM-00



Site : chamber B Condition : Vertical

Project No.: 2401V58259E-EM

Tester : Sadow Tan Test Mode : Mode 1

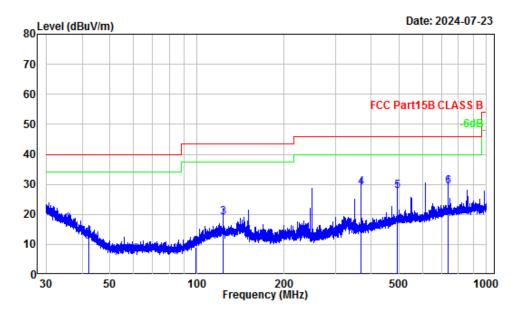
	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2111.844	-3.98	52.45	48.47	74.00	-25.53	Peak	
2	2271.938	-3.28	50.97	47.69	74.00	-26.31	Peak	
3	5663.281	3.31	43.95	47.26	74.00	-26.74	Peak	

Test Mode 2

#### 30 MHz~1 GHz

#### Horizontal

Report No.: 2401V58259E-EM-00



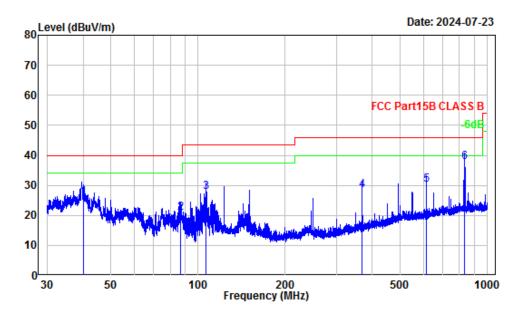
Site : Chamber A Condition : 3m Horizontal Project Number: 2401V58259E-EM

Test Mode : Mode2
Tester : Shy Jiang

	F	F4			Limit		Damanla
	Freq	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.14	-12.88	25.30	12.42	40.00	-27.58	QP
2	98.96	-15.71	24.74	9.03	43.50	-34.47	QP
3	122.89	-12.28	31.15	18.87	43.50	-24.63	QP
4	368.76	-11.46	40.49	29.03	46.00	-16.97	QP
5	491.61	-8.49	36.32	27.83	46.00	-18.17	QP
6	737.39	-5.70	35.11	29.41	46.00	-16.59	QP

## Vertical

Report No.: 2401V58259E-EM-00



Site : Chamber A Condition : 3m Vertical Project Number: 2401V58259E-EM

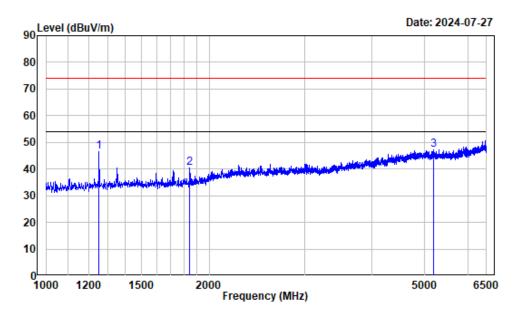
Test Mode : Mode2 Tester : Shy Jiang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.08	-13.07	39.14	26.07	40.00	-13.93	QP
2	87.04	-18.85	39.77	20.92	40.00	-19.08	QP
3	106.71	-15.15	42.93	27.78	43.50	-15.72	QP
4	368.76	-11.72	40.18	28.46	46.00	-17.54	QP
5	614.48	-7.92	38.14	30.22	46.00	-15.78	QP
6	835.51	-5.21	42.84	37.63	46.00	-8.37	QP

## 1 ~ 6.5 GHz

#### Horizontal

Report No.: 2401V58259E-EM-00



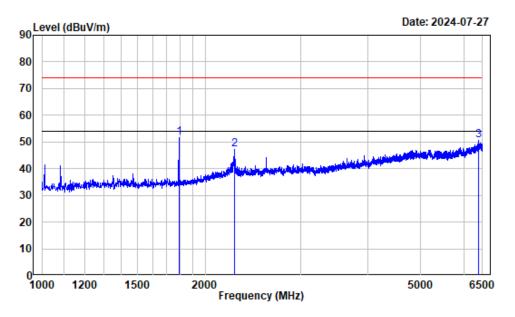
Site : chamber B Condition : Horizontal Project No.: 2401V58259E-EM

Tester : Sadow Tan Test Mode : Mode 2

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1254.094	-7.51	53.98	46.47	74.00	-27.53	Peak
2	1843.063	-6.35	46.88	40.53	74.00	-33.47	Peak
3	5187.406	2.98	44.16	47.14	74.00	-26.86	Peak

## Vertical

Report No.: 2401V58259E-EM-00



Site : chamber B Condition : Vertical

Project No.: 2401V58259E-EM

Tester : Sadow Tan Test Mode : Mode 2

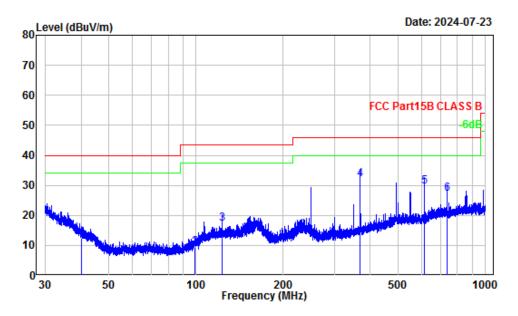
	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	1788.719	-6.40	57.90	51.50	74.00	-22.50	Peak	
2	2267.531	-3.30	50.39	47.09	74.00	-26.91	Peak	
3	6385.906	6.04	44.49	50.53	74.00	-23.47	Peak	

Test Mode 3

#### 30 MHz~1 GHz

#### Horizontal

Report No.: 2401V58259E-EM-00



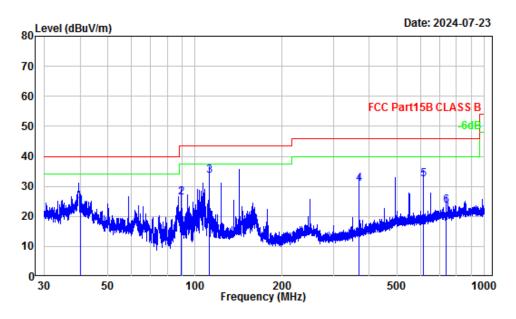
Site : Chamber A Condition : 3m Horizontal Project Number: 2401V58259E-EM

Test Mode : Mode3
Tester : Shy Jiang

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.06	-11.56	23.94	12.38	40.00	-27.62	QP
2	99.01	-15.70	24.98	9.28	43.50	-34.22	QP
3	122.89	-12.28	29.34	17.06	43.50	-26.44	QP
4		-11.46	43.60	32.14	46.00	-13.86	QP
5	614.48	-7.81	37.55	29.74	46.00	-16.26	QP
	737.39	-5.70	32.90	27.20	46.00	-18.80	QP

## Vertical

Report No.: 2401V58259E-EM-00



Site : Chamber A Condition : 3m Vertical Project Number: 2401V58259E-EM

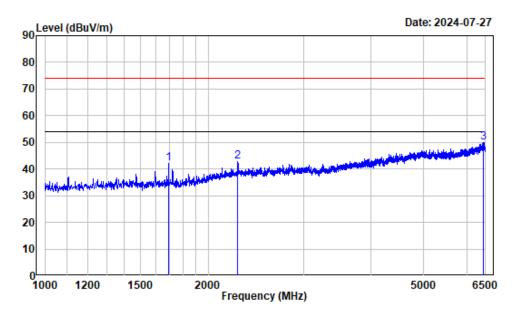
Test Mode : Mode3
Tester : Shy Jiang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.08	-13.07	36.43	23.36	40.00	-16.64	QP
2	89.67	-18.90	45.24	26.34	43.50	-17.16	QP
3	111.89	-13.99	47.44	33.45	43.50	-10.05	QP
4		-11.72	42.50	30.78	46.00	-15.22	QP
5	614.48	-7.92	40.35	32.43	46.00	-13.57	QP
6	737.39	-6.17	29.60	23.43	46.00	-22.57	QP

## 1 ~ 6.5 GHz

#### Horizontal

Report No.: 2401V58259E-EM-00



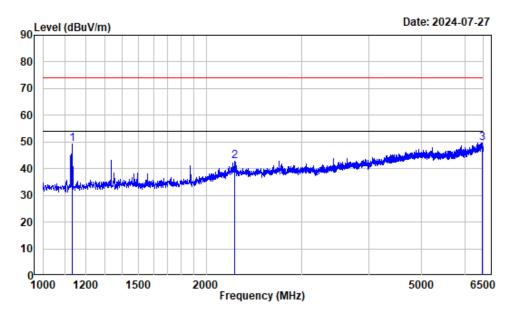
Site : chamber B Condition : Horizontal Project No.: 2401V58259E-EM

Tester : Sadow Tan Test Mode : Mode 3

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1690.313	-6.66	48.81	42.15	74.00	-31.85	Peak
2	2266.063	-3.31	46.03	42.72	74.00	-31.28	Peak
3	6446.125	6.26	43.66	49.92	74.00	-24.08	Peak

## Vertical

Report No.: 2401V58259E-EM-00



Site : chamber B Condition : Vertical

Project No.: 2401V58259E-EM

Tester : Sadow Tan Test Mode : Mode 3

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	1133.656	-8.19	57.29	49.10	74.00	-24.90	Peak	
2	2255.781	-3.39	46.16	42.77	74.00	-31.23	Peak	
3	6462.281	6.24	43.46	49.70	74.00	-24.30	Peak	

Bay Area Compliance Laboratories Corp. (She	nzhen)	Report No.: 2401V58259E-EN	1-00
EUT PHOTOGRAPHS			
Please refer to the attachment 2401V58259		o and 2401V58250E EM Internal	
rease refer to the attachment 2401 v 3623	9E-EW External phot	o and 2401 v 36239E-EW Internal	piioto.

# **TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2401V58259E-EM Test Setup photo.

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

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