

# EMC TEST REPORT

**Project No. : TM-2405000237P**

**Applicant : Amp Fit, Inc.**

**Address : 651 N. Broad St. Suite 308, Middletown, Delaware, United States 19709**

**Manufacturer : SRS Technology Co. Ltd.**

**Address : No. 39, Shalun, Anding Dist., Tainan City 745002**

**Equipment Under Test (EUT) :**

**Name : amp**

**Brand Name : amp**

**Model No.: amp**

**Added Model(s) : N/A**

**Standards:**

47 CFR FCC Part 18

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

**Date of Sample Receipt : May 15, 2024**

**Date of Test : Jun.03 ~ Jul. 12, 2024**

**Date of Issue : Aug. 07, 2024**

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Approved By**

*Eddy Cheng*

**Date**

Aug. 07, 2024

**Eddy Cheng (Asst. Supervisor)**



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## Revision History

Revision	Report Number	Description	Issue Date
00	TMHY2405000826YE	Original. See the following note Rev.(00)	Aug. 07, 2024

**Note:**

Rev.(00) :

1. Conducted Emission test data based on TMHY2405000825YE, because they are the same EUT, test method and test configuration.

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# 1. General Description

## 1.1 General Description of EUT

Name of EUT	amp
Brand Name	amp
Model No.(s)	amp
Added Model(s)	N/A
Variant Description	N/A

## 1.2 Details of EUT

Power Supply	AC 120V,60Hz	
Modes/Function	Mode 1 EUT+Pull Test+BT Standby+Wireless Charging to Smart Phone(360K_MPP) Mode 2 EUT+Pull Test+BT Standby+Wireless Charging to Smart Phone(127.7K_BPP)	
Nominal operating frequency	2480MHz	
Type 1ZM Wi-Fi® + Bluetooth® Module	Murata	LBEE5QD1ZM
15W MPP wireless charger module	Linkcom	QI2QT-6128C1
Wireless Charging operating range	127.7KHz & 360KHz	

## Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
N/A			

## 1.3 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Phone(1)	Apple	A2221	C6KC61FRN737
Phone(2)	ASUS	Zenfone4	HBAZCY00A848HZD

## Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
AC power cable	N/A	1.8m	Non-shielding

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## 1.4 Operation Procedure

1. Connect the USB fixture of the EUT to the NB, and the NB opens putty.exe to set the COM & speed.
2. Connect the EUT to the power cable and turn on the power switch.
3. After issuing the command in NB's putty program, place the phone on the wireless charging stand to charge.
4. Turn on BT on your mobile phone, use nRF Connect.app, search for EUT SSID, and confirm BT Standby.
5. Start testing

## 1.5 The worst case of the EUT

EUT will be carried out in the worst case as followings:

Worst Case:

CE Worst case : Mode 1

Below 1GHz RE Worst case : Mode 1

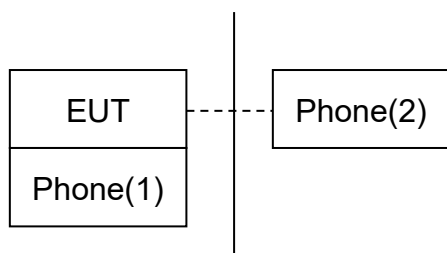
Above 1GHz RE Worst case : Mode 1

## 1.6 Modification List

No modification by SGS Taiwan Electromagnetic Compatibility Laboratory.

## 1.7 Configuration of Tested System

Mode 1:



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## 1.8 Measurement Procedure

Conducted Emission Testing was performed according MP-5 (FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical equipment) or compliance measurements made in accordance with the specific procedures otherwise authorized by the Commission, in a shielded room with peripherals placed on a table, 0.8 m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to MP-5 (FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical equipment) or compliance measurements made in accordance with the specific procedures otherwise authorized by the Commission, at the semi-anechoic chamber (10 m) or 966 semi-anechoic chamber (3 m) test site. The EUT was placed on a 0.8 m high table along with the peripherals. The turn table was separated 3m from the antenna. Antenna height is 1 meter, the RBW and VBW of the spectrum analyzer at 9KHz~30MHz are 9K, and the RBW and VBW at 30MHz~1GHz are 100K and 300K, and the RBW and VBW at Above 1GHz are 1M and 1M. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

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## 1.9 Decision Rules of Results

Reported measurement data comply with 47 CFR FCC Part 18.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 1.10 Summary of Results

Emission		
Standard	Test Type	Result
47 CFR FCC Part 18	Conducted Emission	PASS
	Radiated Emission	PASS

## 1.11 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

## 1.12 Test Facility

Laboratory	SGS Taiwan Ltd. Electromagnetic Compatibility Lab
Test Site	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan
FCC Designation Number	TW1124

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## 2. EMISSION

### 2.1 Frequency Range

#### Frequency range of measurements:

Conducted Emission: 9 kHz - 30 MHz

Radiated Emission :

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1,000	.....do	Tenth harmonic or highest detectable emission.

#### Prohibited frequency bands:

Operation of ISM equipment within the following safety, search and rescue frequency bands is prohibited: 490-510 kHz, 2170-2194 kHz, 8354-8374 kHz, 121.4-121.6 MHz, 156.7-156.9 MHz, and 242.8-243.2 MHz.

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**Operating frequencies:**

ISM equipment may be operated on any frequency above 9 kHz except as indicated in §18.303. The following frequency bands, in accordance with §2.106 of the rules, are designated for use by ISM equipment:

**TABLE 1 TO §18.301**

ISM frequency	Tolerance
6.78 MHz	± 15.0 kHz
13.56 MHz	± 7.0 kHz
27.12 MHz	± 163.0 kHz
40.68 MHz	± 20.0 kHz
915 MHz	± 13.0 MHz
2450 MHz	± 50.0 MHz
5800 MHz	± 75.0 MHz
24.125 GHz	± 125.0 MHz
61.25 GHz	± 250.0 MHz
122.50 GHz	± 500.0 MHz
245.00 GHz	± 1.0 GHz

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## 2.2 Limits of Conducted and Radiated Emission

### 2.2.1 Limits of Conducted Emission for 47 CFR FCC Part 18, Subpart C

According to conduction limits stated in 18.307, when equipment designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

(a) All induction cooking ranges and ultrasonic equipment:

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.009 – 0.05	110	-
0.05 – 0.15	90 – 80*	-
0.15 – 0.5	66 – 56*	56 – 46*
0.5 - 5	56	46
5 - 30	60	50

\*Decreases with the logarithm of the frequency

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(b) All other part 18 consumer devices:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 – 56*	56 – 46*
0.5 - 5	56	46
5 - 30	60	50

\*Decreases with the logarithm of the frequency

(c) RF lighting devices:

Frequency MHz	Emissions (μV)	Emissions (dBμV)
Non-consumer equipment:		
0.45 - 1.6	1000	60
1.6 - 3.0	3000	69.5
Consumer equipment:		
0.45 – 2.51	250	48
2.51 – 3.0	3000	69.5
3.0 - 30	250	48

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## 2.2.2 Limits of Radiated Emissions for 47 CFR FCC Part 18, Subpart C

According to 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 ( <sup>2</sup> )	1,600 ( <sup>2</sup> )
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	$2,400/F(\text{kHz})$ $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 <sup>3</sup> 300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	$24,000/F(\text{kHz})$ 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	<sup>4</sup> 30 <sup>4</sup> 30

- Field strength may not exceed 10  $\mu\text{V}/\text{m}$  at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
- Reduced to the greatest extent possible.
- Field strength may not exceed 10  $\mu\text{V}/\text{m}$  at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
- Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

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According to 18.305 (c), the field strength limits for RF lighting devices shall be the following:

Frequency (MHz)	Distance (Meters)	Field Strength Limit @ 30 m ( $\mu\text{V/m}$ )	Field Strength Limit @ 3m (dB $\mu\text{V/m}$ )
Non-consumer equipment:			
30 - 88	30	30	49.5
88 - 216	30	50	54
216 - 1000	30	70	56.9
Consumer equipment:			
30 - 88	30	10	40
88 - 216	30	15	43.5
216 - 1000	30	20	46

According to 18.307(f): For ultrasonic equipment, compliance with the conducted limits shall preclude the need to show compliance with the field strength limits below 30 MHz unless requested by the Commission.

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## 2.3. Test of Conducted Emission

### 2.3.1 Test Instruments

The measurement facilities in accordance with §2.948.

SGS Conducted Emission HWAYA Conducted Room No.B EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	101300	2023/9/15	2024/9/14
Coaxial Cables	EMC Instruments Corp.	HY-CEB-CABLE	HYCE-2000-02	2023/12/15	2024/12/14
Pulse Limiter	Schwarzbeck	VTSD 9561-F	01245	2023/11/29	2024/11/28
LISN	TESEQ	NNB 51	36061	2024/2/19	2025/2/18
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-11	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Conducted Emission measurement is 2.26 dB.					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 dB.					

### 2.3.2 Measurement Level Calculation

Factor = LISN insertion loss + Cable Loss + Pulse Limiter insertion loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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## 2.3.3 Measurement Data

Model No.: amp

Mode\_1\_L

Site: : Conduction Room B	Date: 2024/7/11	Time: 下午 3:24:06
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 22 °C
Mode: Mode 1	Power: AC120V/60Hz	Humidity: 60 %RH
Report: TMHY2405000826YE		atm pressure: 990 mbar
Tester: David Lee		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1680	40.89	20.11	61.00	65.06	-4.06	QP	
2	*	0.1680	33.59	20.11	53.70	55.06	-1.36	AVG	
3		0.1950	39.61	20.10	59.71	63.82	-4.11	QP	
4		0.1950	31.55	20.10	51.65	53.82	-2.17	AVG	
5		0.2265	35.58	20.10	55.68	62.58	-6.90	QP	
6		0.2265	28.42	20.10	48.52	52.58	-4.06	AVG	
7		0.2580	31.98	20.10	52.08	61.50	-9.42	QP	
8		0.2580	24.68	20.10	44.78	51.50	-6.72	AVG	
9		0.2850	31.93	20.10	52.03	60.67	-8.64	QP	
10		0.2850	25.16	20.10	45.26	50.67	-5.41	AVG	
11		0.3165	30.26	20.10	50.36	59.80	-9.44	QP	
12		0.3165	23.32	20.10	43.42	49.80	-6.38	AVG	
13		0.3480	26.89	20.10	46.99	59.01	-12.02	QP	

\*:Maximum data x:Over limit !:over margin

Page: 1

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
14		0.3480	20.29	20.10	40.39	49.01	-8.62	AVG	
15		0.3750	27.19	20.10	47.29	58.39	-11.10	QP	
16		0.3750	21.28	20.10	41.38	48.39	-7.01	AVG	
17		0.5820	24.52	20.10	44.62	56.00	-11.38	QP	
18		0.5820	18.60	20.10	38.70	46.00	-7.30	AVG	
19		0.6000	24.47	20.10	44.57	56.00	-11.43	QP	
20		0.6000	18.46	20.10	38.56	46.00	-7.44	AVG	
21		14.1270	31.80	20.40	52.20	60.00	-7.80	QP	
22		14.1270	19.16	20.40	39.56	50.00	-10.44	AVG	
23		14.6805	32.36	20.42	52.78	60.00	-7.22	QP	
24		14.6805	18.17	20.42	38.59	50.00	-11.41	AVG	
25		16.1430	29.93	20.45	50.38	60.00	-9.62	QP	
26		16.1430	19.69	20.45	40.14	50.00	-9.86	AVG	
27		16.9530	29.90	20.47	50.37	60.00	-9.63	QP	
28		16.9530	20.42	20.47	40.89	50.00	-9.11	AVG	

\*:Maximum data    x:Over limit    !:over margin

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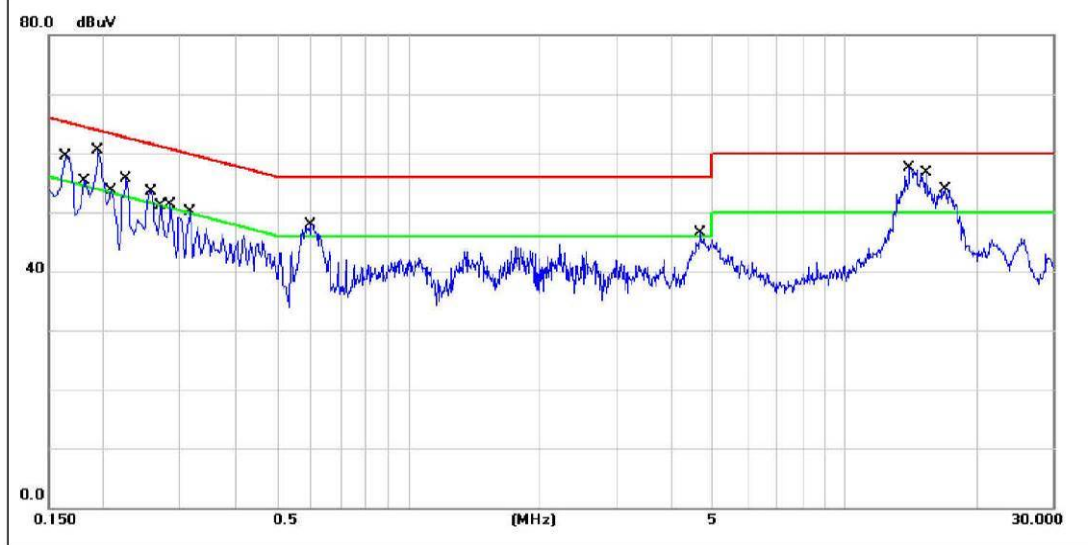
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## Mode\_1\_N

Site: : Conduction Room B	Date: 2024/7/11	Time: 下午 3:31:14
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 22 °C
Mode: Mode 1	Power: AC120V/60Hz	Humidity: 60 %RH
Report: TMHY2405000826YE		atm pressure: 990 mbar
Tester: David Lee		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1635	40.22	20.07	60.29	65.28	-4.99	QP	
2	*	0.1635	33.03	20.07	53.10	55.28	-2.18	AVG	
3		0.1815	32.29	20.06	52.35	64.42	-12.07	QP	
4		0.1815	25.45	20.06	45.51	54.42	-8.91	AVG	
5		0.1950	38.69	20.06	58.75	63.82	-5.07	QP	
6		0.1950	30.61	20.06	50.67	53.82	-3.15	AVG	
7		0.2085	31.13	20.06	51.19	63.26	-12.07	QP	
8		0.2085	24.00	20.06	44.06	53.26	-9.20	AVG	
9		0.2265	34.44	20.06	54.50	62.58	-8.08	QP	
10		0.2265	27.44	20.06	47.50	52.58	-5.08	AVG	
11		0.2580	30.81	20.06	50.87	61.50	-10.63	QP	
12		0.2580	23.61	20.06	43.67	51.50	-7.83	AVG	
13		0.2714	28.63	20.06	48.69	61.07	-12.38	QP	

\*:Maximum data x:Over limit l:over margin

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
14		0.2714	21.81	20.06	41.87	51.07	-9.20	AVG	
15		0.2850	30.04	20.06	50.10	60.67	-10.57	QP	
16		0.2850	23.47	20.06	43.53	50.67	-7.14	AVG	
17		0.3165	27.87	20.07	47.94	59.80	-11.86	QP	
18		0.3165	21.22	20.07	41.29	49.80	-8.51	AVG	
19		0.6000	25.75	20.07	45.82	56.00	-10.18	QP	
20		0.6000	20.61	20.07	40.68	46.00	-5.32	AVG	
21		4.6860	20.85	20.22	41.07	56.00	-14.93	QP	
22		4.6860	15.80	20.22	36.02	46.00	-9.98	AVG	
23		14.0865	29.79	20.38	50.17	60.00	-9.83	QP	
24		14.0865	18.85	20.38	39.23	50.00	-10.77	AVG	
25		15.4230	27.80	20.41	48.21	60.00	-11.79	QP	
26		15.4230	18.14	20.41	38.55	50.00	-11.45	AVG	
27		16.9530	29.92	20.45	50.37	60.00	-9.63	QP	
28		16.9530	21.18	20.45	41.63	50.00	-8.37	AVG	

\*:Maximum data    x:Over limit    !:over margin

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## 2.4 Test of Radiated Emission

### 2.4.1 Test Instruments

The measurement facilities in accordance with §2.948.

**Below 1GHz**

**9kHz-30MHz**

SGS Radiated Below 1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESR 7	101459	2024/2/15	2025/2/14
Broadband Antenna	Schwarzbeck	VULB9168	VULB 9168-297	2023/8/17	2024/8/16
Biconical Antenna	Schwarzbeck	VHBB 9124	9124-560	2023/6/27	2024/6/26
Log-Periodic Antenna	Schwarzbeck	UHALP 9108 A	UHALP 9108-A 0990	2023/6/27	2024/6/26
Loop Antenna	ETS-LINDGREN	6502	243641	2024/3/11	2025/3/10
Pre Amplifier	EMC Instruments	EMC330	980180	2024/5/19	2025/5/18
Coaxial Cable	Huber+Suhner	RG 214/U	539808	2023/8/25	2024/8/24
Coaxial Cable	Huber+Suhner	RG 214/U	2211955	2023/8/25	2024/8/24
Coaxial Cable	NA	8D	SAC-A-0.5M	2023/8/25	2024/8/24
Site NSA	SGS	966 Chamber A	SAC-A	2024/1/12	2025/1/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-11	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 2.70 dB.(9kHz-30MHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB.(9kHz-30MHz)					

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## 30-1000MHz

SGS Radiated_Below_1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESR 7	101459	2024/2/15	2025/2/14
Broadband Antenna	Schwarzbeck	VULB9168	VULB 9168-297	2023/8/17	2024/8/16
Biconical Antenna	Schwarzbeck	VHBB 9124	9124-560	2024/6/17	2025/6/16
Log-Periodic Antenna	Schwarzbeck	UHALP 9108 A	UHALP 9108-A 0990	2024/6/17	2025/6/16
Pre Amplifier	EMC Instruments	EMC330	980180	2024/5/19	2025/5/18
Coaxial Cable	Huber+Suhner	RG 214/U	539808	2023/8/25	2024/8/24
Coaxial Cable	Huber+Suhner	RG 214/U	2211955	2023/8/25	2024/8/24
Coaxial Cable	NA	8D	SAC-A-0.5M	2023/8/25	2024/8/24
Site NSA	SGS	966 Chamber A	SAC-A	2024/1/12	2025/1/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-11	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 5.87 dB.(30-1000MHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 6.32 dB.(30MHz-1000MHz)					

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## Above 1GHz

SGS Radiated Above 1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2023/7/18	2024/7/17
EMI Test Receiver	R&S	ESR 7	101459	2024/2/15	2025/2/14
Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D285	2024/4/12	2025/4/11
Pre Amplifier	EMC Instruments	EMC118A45V1SEE	980137	2024/3/28	2025/3/27
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2024/4/24	2025/4/23
Coaxial Cable	EMC Instruments	EMC 104-SM-SM-8000	200905	2024/4/24	2025/4/23
Coaxial Cable	Wokentech	N/A	20221111-4	2024/4/24	2025/4/23
Filter	Woken	WFIL-N2400-2483.5F-02	WR145WC2B1	2024/1/30	2025/1/29
Site VSWR	SGS	966 Chamber A	SAC-A	2024/1/12	2025/1/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-11	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 4.15 dB.(1-6GHz)					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 4.29 dB.(6-18GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB.(1-6GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB.(6-18GHz)					

## 2.4.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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## 2.4.3 Measurement Data

## Below 1GHz

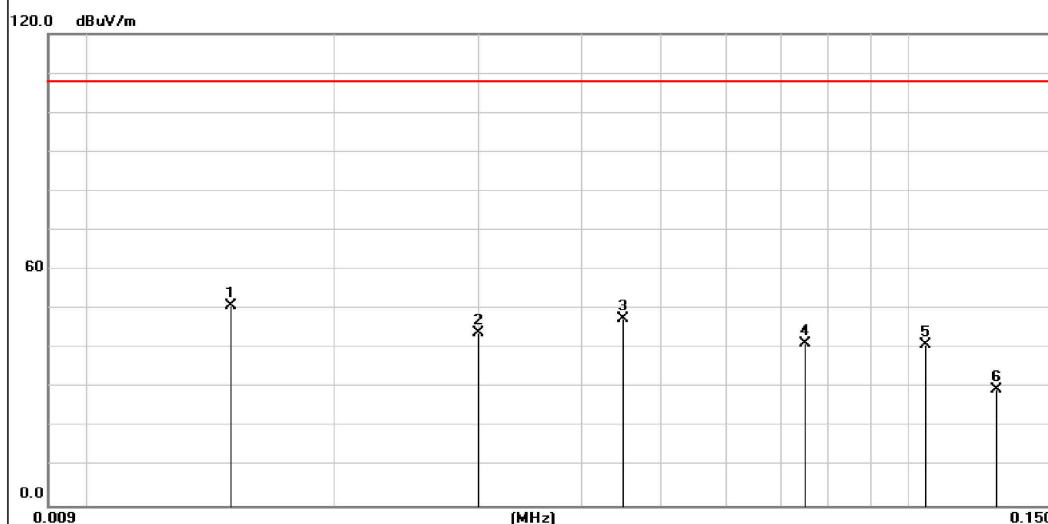
Model No.: amp

Mode\_1\_H

Site: SGS 966 Chamber A	Date: 2024/6/3	Time: 下午 07:23:31
Limit: FCC PART 18 Loop (ISM)	Polarization: Horizontal	Temperature: 21 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height (cm)	Degree (deg.)	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1	*	0.0150	34.90	15.90	50.80	107.95	-57.15	QP	100	106	
2		0.0300	30.80	13.10	43.90	107.95	-64.05	QP			
3		0.0451	35.91	11.59	47.50	107.95	-60.45	QP			
4		0.0750	30.99	10.21	41.20	107.95	-66.75	QP			
5		0.1052	30.89	10.01	40.90	107.95	-67.05	QP			
6		0.1281	19.67	10.03	29.70	107.95	-78.25	QP			

\*:Maximum data x:Over limit !:over margin

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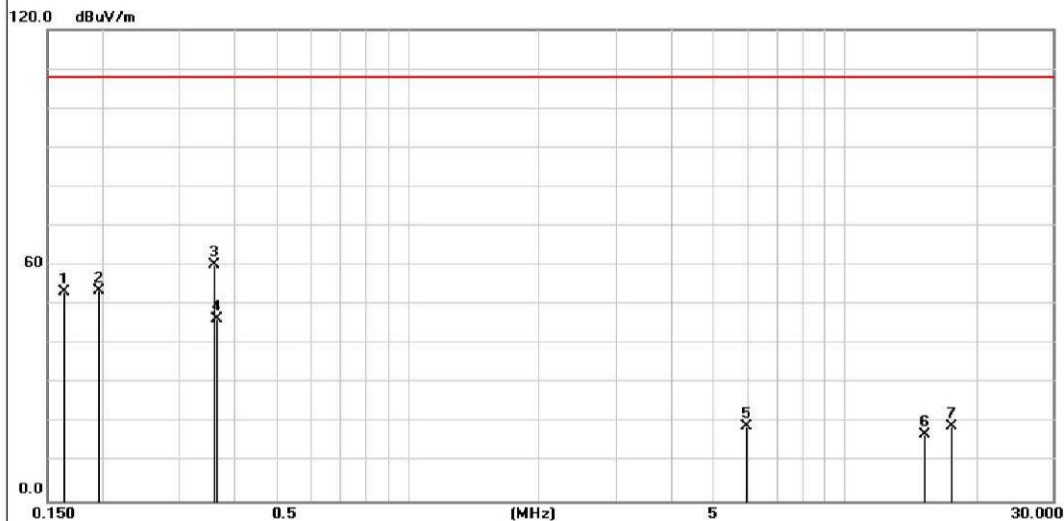
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Site: SGS 966 Chamber A	Date: 2024/6/3	Time: 下午 07:17:52
Limit: FCC PART 18 Loop (ISM)	Polarization: Horizontal	Temperature: 21 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		
Note:		

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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		0.1641	43.24	10.06	53.30	107.95	-54.65	QP			
2		0.1965	43.40	10.10	53.50	107.95	-54.45	QP	100	45	
3	*	0.3600	50.11	10.10	60.21	107.95	-47.74	peak			TX
4		0.3634	36.40	10.10	46.50	107.95	-61.45	QP			
5		5.9608	7.83	11.27	19.10	107.95	-88.85	QP			
6		15.2261	5.73	11.17	16.90	107.95	-91.05	QP			
7		17.5677	7.42	11.58	19.00	107.95	-88.95	QP			

\*:Maximum data x:Over limit !:over margin

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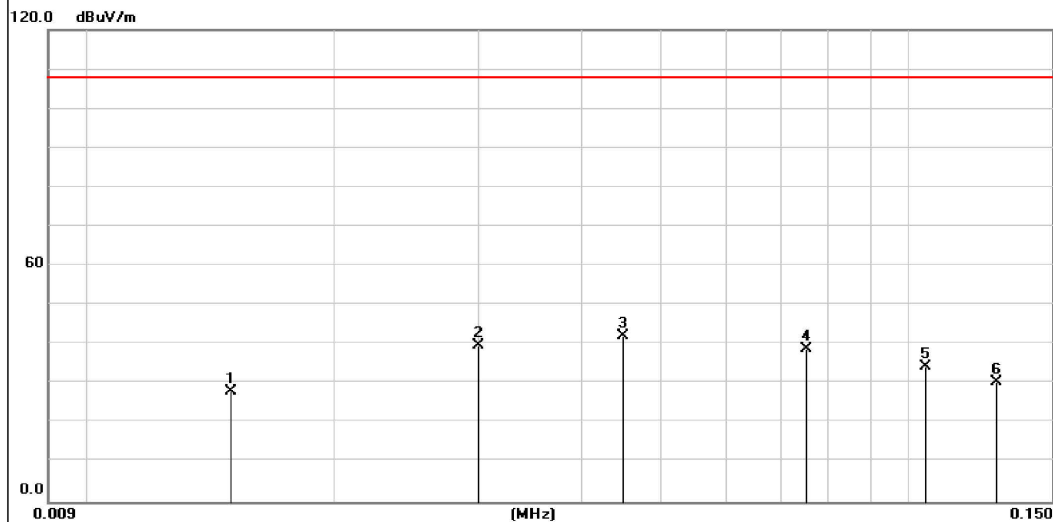
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## Mode\_1\_V

Site: SGS 966 Chamber A	Date: 2024/6/3	Time: 下午 07:03:20
Limit: FCC PART 18 Loop (ISM)	Polarization: Vertical	Temperature: 21 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		0.0150	12.10	15.90	28.00	107.95	-79.95	QP			
2		0.0300	26.80	13.10	39.90	107.95	-68.05	QP			
3	*	0.0450	30.50	11.60	42.10	107.95	-65.85	QP	100	0	
4		0.0751	28.74	10.21	38.95	107.95	-69.00	QP			
5		0.1052	24.30	10.01	34.31	107.95	-73.64	QP			
6		0.1281	20.30	10.03	30.33	107.95	-77.62	QP			

\*:Maximum data x:Over limit !:over margin

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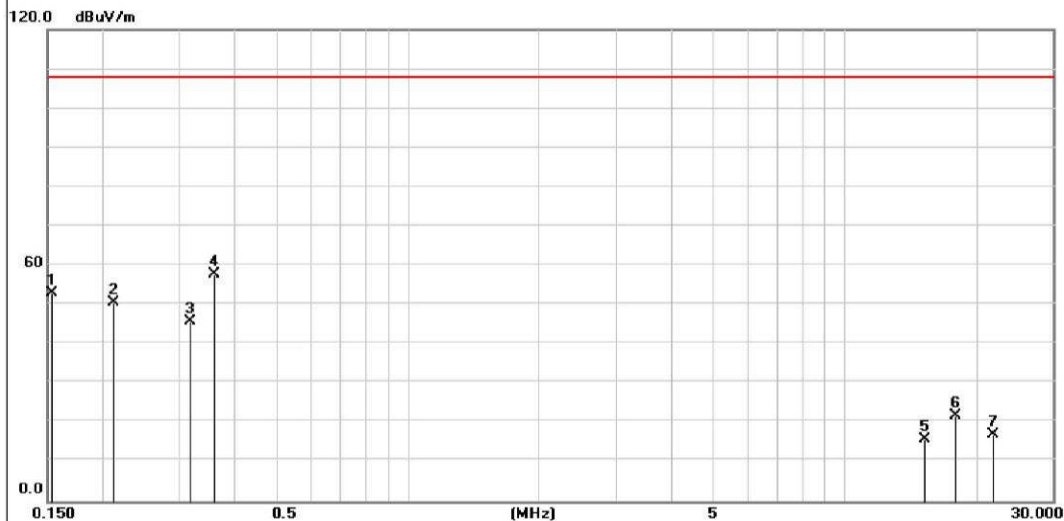
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Site: SGS 966 Chamber A	Date: 2024/6/3	Time: 下午 07:10:40
Limit: FCC PART 18 Loop (ISM)	Polarization: Vertical	Temperature: 21 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		0.1540	42.90	10.05	52.95	107.95	-55.00	QP	100	25	
2		0.2117	40.40	10.10	50.50	107.95	-57.45	QP			
3		0.3183	35.60	10.10	45.70	107.95	-62.25	QP			
4	*	0.3600	47.55	10.10	57.65	107.95	-50.30	peak			TX
5		15.3070	4.65	11.18	15.83	107.95	-92.12	QP			
6		17.8493	10.22	11.58	21.80	107.95	-86.15	QP			
7		21.8303	6.18	10.69	16.87	107.95	-91.08	QP			

\*:Maximum data x:Over limit !:over margin

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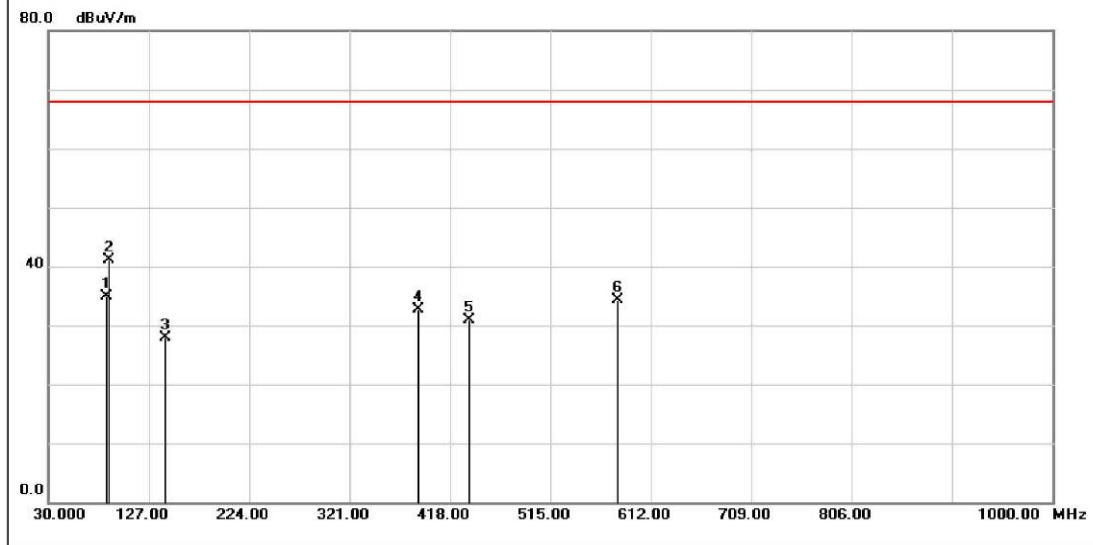
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## Mode\_1\_H

Site: SGS 966 Chamber A	Date: 2024/7/12	Time: 上午 09:47:23
Limit: FCC Part 18 (ISM)	Polarization: Horizontal	Temperature: 22 ℃
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 62 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		86.2600	53.57	-18.57	35.00	67.95	-32.95	QP			
2	*	89.1700	59.68	-18.48	41.20	67.95	-26.75	QP	200	138	
3		143.4900	41.18	-13.18	28.00	67.95	-39.95	QP			
4		386.9600	41.42	-8.72	32.70	67.95	-35.25	QP			
5		437.4000	38.55	-7.65	30.90	67.95	-37.05	QP			
6		579.9900	39.80	-5.50	34.30	67.95	-33.65	QP			

\*:Maximum data x:Over limit !:over margin

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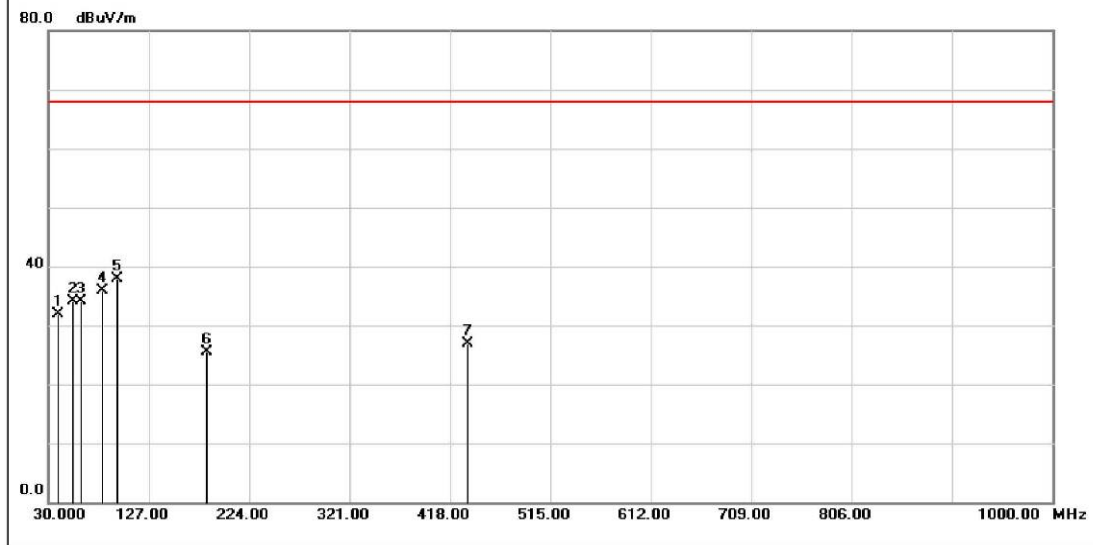
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## Mode\_1\_V

Site: SGS 966 Chamber A	Date: 2024/7/12	Time: 上午 09:35:31
Limit: FCC Part 18 (ISM)	Polarization: Vertical	Temperature: 22 ℃
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 62 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		39.7000	44.86	-12.86	32.00	67.95	-35.95	QP			
2		53.2800	46.47	-12.27	34.20	67.95	-33.75	QP			
3		62.0100	47.60	-13.40	34.20	67.95	-33.75	QP			
4		82.3800	53.81	-17.81	36.00	67.95	-31.95	QP			
5	*	96.9300	55.54	-17.54	38.00	67.95	-29.95	QP	100	227	
6		183.2600	39.73	-14.23	25.50	67.95	-42.45	QP			
7		435.4600	34.57	-7.67	26.90	67.95	-41.05	QP			

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Above 1GHz

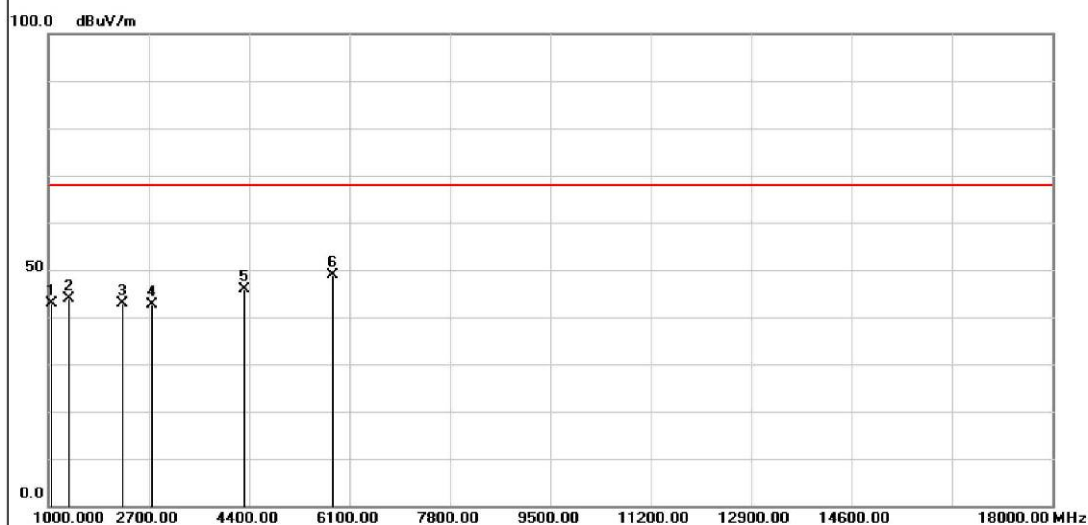
Model No.: amp

Mode\_1\_H

Site: SGS 966 Chamber A	Date: 2024/6/3	Time: 下午 05:52:20
Limit: FCC Part 18 (ISM)	Polarization: Horizontal	Temperature: 21 ℃
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1		1051.000	51.96	-9.00	42.96	67.95	-24.99	peak			
2		1340.000	51.68	-7.92	43.76	67.95	-24.19	peak			
3		2258.000	47.12	-4.32	42.80	67.95	-25.15	peak			
4		2768.000	46.73	-4.21	42.52	67.95	-25.43	peak			
5		4332.000	47.34	-1.51	45.83	67.95	-22.12	peak			
6	*	5811.000	48.24	0.65	48.89	67.95	-19.06	peak	100	124	

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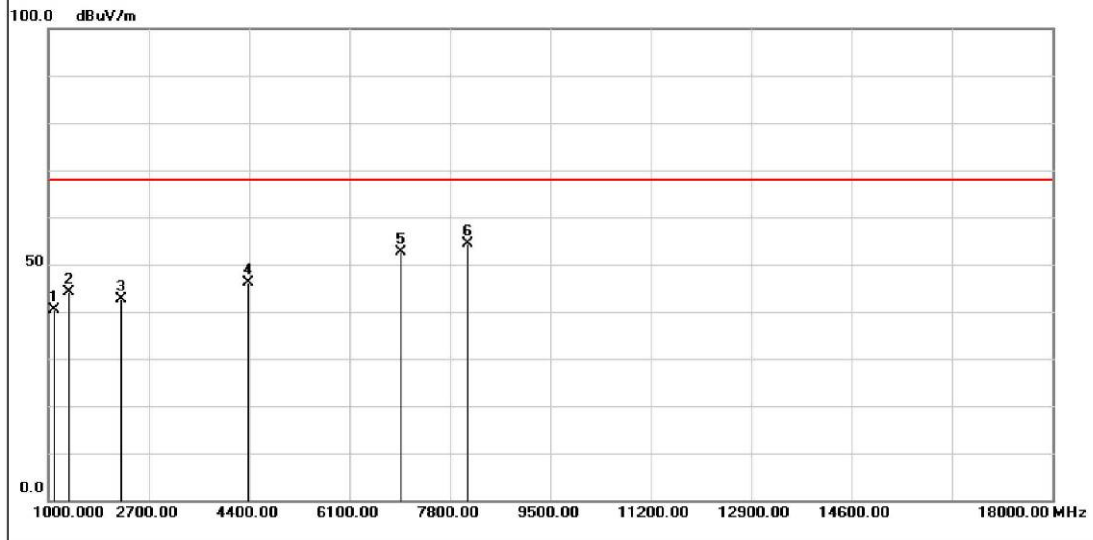
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## Mode\_1\_V

Site: SGS 966 Chamber A	Date: 2024/6/3	Time: 下午 05:40:32
Limit: FCC Part 18 (ISM)	Polarization: Vertical	Temperature: 21 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: TMHY2405000826YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		1102.000	49.38	-8.89	40.49	67.95	-27.46	peak			
2		1357.000	52.09	-7.87	44.22	67.95	-23.73	peak			
3		2241.000	47.07	-4.33	42.74	67.95	-25.21	peak			
4		4383.000	47.49	-1.48	46.01	67.95	-21.94	peak			
5		6967.000	49.11	3.48	52.59	67.95	-15.36	peak			
6	*	8106.000	48.73	5.66	54.39	67.95	-13.56	peak	100	90	

\*:Maximum data x:Over limit !:over margin

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According to the above test results all fundamental signals Comply with standards.

Field strength limit (uV/m) converted to (dBuV/m):

Below 30MHz:

$$20\text{Log}(25)+40\text{Log}(300/3)=107.95 \text{ (dBuV/m)}$$

Above 30MHz:

$$20\text{Log}(25)+20\text{Log}(300/3)=67.95 \text{ (dBuV/m)}$$

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