

# **TEST REPORT**

**Report No.:** 8236EU011204W1

**Applicant:** Shenzhen Intellirocks Tech. Co., Ltd.

Address: No. 3301, Block C, Section 1, Chuangzhi Yuncheng

Building, Liuxian Avenue, Xili Community, Xili Street,

Nanshan District, Shenzhen, China

Product Name: RGBIC LED Neon Rope Lights

Model No.: H61A0 (refer to clause 2.4)

Trademark: Govee

**FCC ID**: 2AQA6-H61A0A

Test Standard(s): 47 CFR Part 15 Subpart C

Date of Receipt: Dec. 12, 2024

**Test Date:** Dec. 12, 2024 – Jan. 09, 2025

Date of Issue: Mar. 12, 2025

**ISSUED BY:** 

Prepared by:

SHENZHEN EU TESTING LABORATORY LIMITED ROVE

Reviewed and Approved by:

Mikey Zhu/ Engineer

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# **Revision Record**

Report Version	Issued Date	Description	Status	
V0 Mar. 12, 2025		Original	Valid	





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### 2 General Information

# 2.1 Applicant Information

Applicant	Shenzhen Intellirocks Tech. Co., Ltd.	
Address	No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, China	

### 2.2 Manufacturer Information

Manufacturer	Shenzhen Intellirocks Tech. Co., Ltd.	
Address	No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, China	

# 2.3 Factory Information

Factory	N/A
Address	N/A

### 2.4 General Description of E.U.T.

2.14 Contrar Bocomption of Electric				
Product Name	RGBIC LED Neon Rope Lights			
Model No. Under Test	H61A0			
List Model No.	H61A1, H61A2, H61A3			
Description of Model differentiation	All samples are the same, only the adapter, lengths of light are different. The model differentiations will not affect RF parameters, so we prepare all models for Conducted Emission, Radiated Emission tests with their own adapters. And prepare "H61A0" for RF test only.			
Rating(s)	Refer to the following detailed table.			
Product Type	<ul><li></li></ul>			
Test Sample No.	8232EU013108W-1/4(Normal Sample, H61A0), 8232EU013108W-2/4(Normal Sample, H61A1), 8232EU013108W-3/4(Normal Sample, H61A2), 8232EU013108W-4/4(Engineering Sample)			
Hardware Version	N/A			
Software Version	N/A			
Remark	1) The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.  2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			



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#### Detailed table:

Model No.	Length of Light	Rating	Adapter Information
H61A0	3m	24V=== 1.5A	Model No.: BI36GL-240150-AdU Input: 100-240V~ 50/60Hz 1.0A Output: 24V=== 1.5A Manufacturer: Dong Guan Royal Intelligent Co., Ltd.
H61A1	2m	24V=== 1.0A	Model No.: BI24GL-240100-AdU Input: 100-240V~ 50/60Hz 0.8A Output: 24V=== 1A Manufacturer: Dong Guan Royal Intelligent Co., Ltd.
H61A2	5m	24V== 2.0A	Model No.: BI48G-240200-AdU Input: 100-240V~ 50/60Hz 1.4A
H61A3	4m	24V 2.UA	Output: 24V=== 2A Manufacturer: Dong Guan Royal Intelligent Co., Ltd.





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#### **Technical Information of E.U.T.** 2.5

Network and	Bluetooth (BLE)
Wireless Connectivity	WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20)

The requirement for the following technical information of the EUT was tested in this report:

Technology	Bluetooth
Operation Mode	⊠ BLE
Modulation Type	GFSK
Operating Frequency	2402-2480MHz
Transfer Rate	1 Mbps
Number of Channel	40
Antenna Type	PCB Antenna
Antenna Gain(Peak)	4.51 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

### All channel was listed on the following table:

Channel	Freq. (MHz)								
00	2402	08	2418	16	2434	24	2450	32	2466
01	2404	09	2420	17	2436	25	2452	33	2468
02	2406	10	2422	18	2438	26	2454	34	2470
03	2408	11	2424	19	2440	27	2456	35	2472
04	2410	12	2426	20	2442	28	2458	36	2474
05	2412	13	2428	21	2444	29	2460	37	2476
06	2414	14	2430	22	2446	30	2462	38	2478
07	2416	15	2432	23	2448	31	2464	39	2480



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# 3 Test Summary

#### 3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

#### Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

### 3.2 Test Verdict

No.	Description	FCC Part No.	Channel	Verdict	Remark
1	Antenna Requirement	15.203	N/A	Pass	Note 1
2	Conducted Emission at AC Power Line	15.207	Low/Middle/High	Pass	-
3	Occupied Bandwidth	15.247(a)(2)	Low/Middle/High	Pass	-
4	Maximum Conducted Output Power	15.247(b)(3)	Low/Middle/High	Pass	
5	Power spectral density (PSD)	15.247(e)	Low/Middle/High	Pass	
6	Emissions in Non-restricted Frequency Bands (Conducted)	15.247(d)	Low/Middle/High	Pass	
7	Band Edge Emissions (Restricted frequency bands)	15.209 15.247(d)	Low/High	Pass	
8	Radiated Spurious Emission	15.209 15.247(d)	Low/Middle/High	Pass	

Note <sup>1</sup>: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

### 3.3 Test Laboratory

Test Laboratory Shenzhen EU Testing Laboratory Limited	
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583



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# 4 Test Configuration

### 4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Barring and medical emeric, and memic	burning the medicarement, the normal environmental conditions were within the noted ranges.		
Relative Humidity	30% to 60%		
Atmospheric Pressure	86 kPa to 106 kPa		
Temperature	NT (Normal Temperature)	+15°C to +35°C	
Working Voltage of the EUT	NV (Normal Voltage)	120VAC, 60Hz for adapter	

# 4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
L.I.S.N.	Dahda 9 Cahuran	ENIV.04.0	FF 004	2024/01/09	2025/01/08
Artificial Mains Network	Ronde & Schwarz	hde & Schwarz ENV216	EE-004	2025/01/08	2026/01/07
FMI Test Desciver	Dobdo 9 Coburge	ESCI	FF 005	2024/01/09	2025/01/08
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2025/01/08	2026/01/07
Test Software	Farad	EZ-EMC	EE-014	N.C.R	N.C.R

Radiated Emission and RF Test					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
ENAL Took December	ROHDE &	ECDI	FF 000	2024/01/09	2025/01/08
EMI Test Receiver	SCHWARZ	ESPI	EE-006	2025/01/08	2026/01/07
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023/01/14	2026/01/13
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023/01/12	2026/01/11
Dro amplifier	Agilopt	8447D	EE-009	2024/01/09	2025/01/08
Pre-amplifier	Agilent	0447D	EE-009	2025/01/08	2026/01/07
Dua anan lifi an	Arilant	0440D	EE-010	2024/01/09	2025/01/08
Pre-ampliner	Pre-amplifier Agilent 8449B		EE-010	2025/01/08	2026/01/07
MVA Signal Analyzar	Agilont	N9020A	EE-011	2024/01/09	2025/01/08
MXA Signal Analyzer Agilent		N9020A	EE-UII	2025/01/08	2026/01/07
MXG RF Vector	Arilant	N5182A	EE-012	2024/01/09	2025/01/08
Signal Generator	Agilent	NOTOZA	EE-012	2025/01/08	2026/01/07
Test Software	Farad	EZ-EMC	EE-015	N.C.R	N.C.R
MIMO Power	TOTRACO	TODO 0000D	FF 040	2024/01/09	2025/01/08
Measurement Module	TSTPASS	TSPS 2023R	EE-016	2025/01/08	2026/01/07
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	N.C.R	N.C.R
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2024/02/15	2025/02/14

Tel: (86)-755-2357-9714 Email: Service@eu-test.com



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Loop Antenna	TESEQ	HLA6121	EE-403	2024/02/15	2025/02/14
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2024/02/15	2025/02/14
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2024/07/30	2025/07/29
Power Sensor	ROHDE&SCHWAR ZN	NRP18S	ES-052	2024/02/15	2025/02/14

### 4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Adapter	refer to clause 2.4	refer to clause 2.4	N/A
2	LED Neon Rope Lights	Same as applicant	H61A0	N/A
3	LED Neon Rope Lights	Same as applicant	H61A1	N/A
4	LED Neon Rope Lights	Same as applicant	H61A2	N/A
5	LED Neon Rope Lights	Same as applicant	H61A3	N/A

#### 4.4 Test Mode

No.	Test Modes	Description
TM1	TX-GFSK	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation with 1 Mbps rate.

### 4.5 Description of Calculation

### 4.5.1. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

### FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

#### 4.5.2. Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

### CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

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## 4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Conducted Emission	2.64 dB
Occupied Channel Bandwidth	2.8 %
RF output power, conducted	0.68 dB
Power Spectral Density, conducted	1.37 dB
Unwanted Emissions, conducted	1.84 dB
Radiated Emission (9kHz- 30MHz)	Ur = 2.50 dB
Radiated Emission	Ur = 2.70 dB (Horizontal)
(30MHz- 1GHz)	Ur = 2.70 dB (Vertical)
Radiated Emission	Ur = 3.50 dB (Horizontal)
(1GHz- 18GHz)	Ur = 3.50 dB (Vertical)
Radiated Emission	Ur = 5.15 dB (Horizontal)
(18GHz- 40GHz)	Ur = 5.24 dB (Vertical)
Temperature	0.8°C
Humidity	4%

### 4.7 Deviation from Standards

None.

### 4.8 Abnormalities from Standard Condition

None.



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### 5 Test Items

### 5.1 Antenna requirement

#### 5.1.1 Test Requirement

**Test Requirement** 

According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

### 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

#### 5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

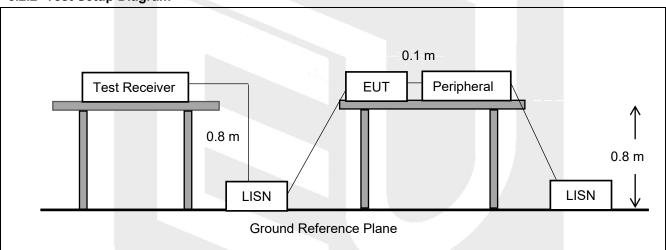
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### 5.2 Conducted Emission at AC Power Line

#### 5.2.1 Test Requirement

Test Requirement	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is 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, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).							
	Frequency of emission (MHz)	Conducted limit (dBµV)						
		Quasi-peak	Average					
T 4 1 2 24	0.15-0.5	66 to 56*	56 to 46*					
Test Limit	0.5-5	56	46					
	5-30	60	50					
	*Decreases with the logarithm of the frequency.							
Test Method	ANSI C63.10-2020 section 6.2							

#### 5.2.2 Test Setup Diagram



#### 5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

### 5.2.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.



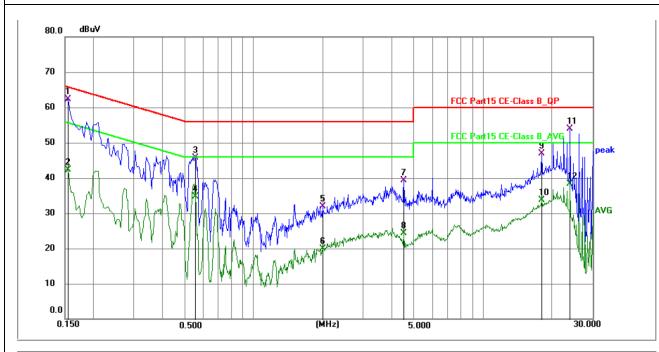
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### **Conducted Emission Test Data**

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle

Comments: Live Line
Model No.: H61A0



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1545	52.44	9.96	62.40	65.75	-3.35	QP	Р	
2	0.1545	32.38	9.96	42.34	55.75	-13.41	AVG	Р	
3	0.5550	35.73	10.04	45.77	56.00	-10.23	QP	Р	
4	0.5550	24.69	10.04	34.73	46.00	-11.27	AVG	Р	
5	1.9950	21.98	10.02	32.00	56.00	-24.00	QP	Р	
6	1.9950	9.95	10.02	19.97	46.00	-26.03	AVG	Р	
7	4.5015	29.34	10.04	39.38	56.00	-16.62	QP	Р	
8	4.5015	14.19	10.04	24.23	46.00	-21.77	AVG	П	
9	18.0015	36.88	10.03	46.91	60.00	-13.09	QP Q	Р	
10	18.0015	23.58	10.03	33.61	50.00	-16.39	AVG	Р	
11	24.0000	43.71	10.16	53.87	60.00	-6.13	QP	Ъ	
12	24.0000	28.05	10.16	38.21	50.00	-11.79	AVG	Р	



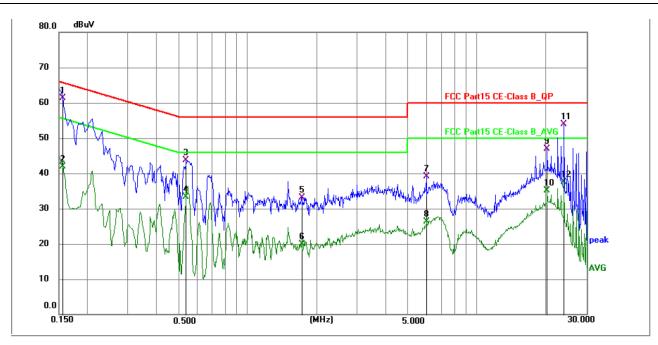
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### **Conducted Emission Test Data**

Test Site: Shielded Room #1
Test Mode: TM1/ CH Middle

Comments: Neutral Line

Model No.: H61A0



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1556	51.30	9.98	61.28	65.70	-4.42	QP	Р	
2	0.1556	31.98	9.98	41.96	55.70	-13.74	AVG	Р	
3	0.5370	33.60	10.07	43.67	56.00	-12.33	QP	Р	
4	0.5370	23.20	10.07	33.27	46.00	-12.73	AVG	Р	
5	1.7250	23.08	10.07	33.15	56.00	-22.85	QP	П	
6	1.7250	9.77	10.07	19.84	46.00	-26.16	AVG	J	
7	6.0000	29.12	10.04	39.16	60.00	-20.84	QP	Р	
8	6.0000	16.31	10.04	26.35	50.00	-23.65	AVG	П	
9	20.2470	36.82	10.08	46.90	60.00	-13.10	QP	J	
10	20.2470	25.11	10.08	35.19	50.00	-14.81	AVG	Р	
11	24.0000	43.71	10.14	53.85	60.00	-6.15	QP	Р	
12	24.0000	27.34	10.14	37.48	50.00	-12.52	AVG	Р	



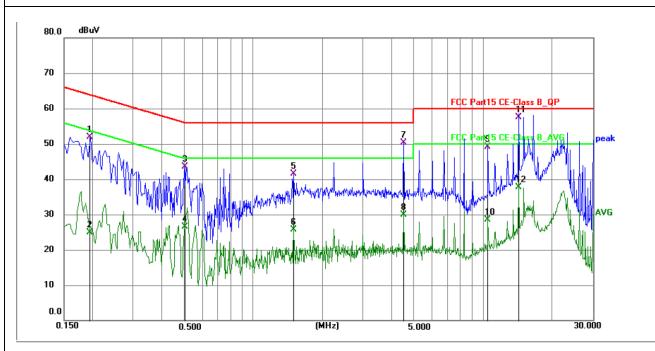
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### **Conducted Emission Test Data**

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle

Comments: Live Line Model No.: H61A1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	41.84	9.97	51.81	63.83	-12.02	QP	Р	
2	0.1949	15.00	9.97	24.97	53.83	-28.86	AVG	Р	
3	0.5010	33.45	10.04	43.49	56.00	-12.51	QP	Р	
4	0.5010	16.39	10.04	26.43	46.00	-19.57	AVG	Р	
5	1.5000	31.52	10.03	41.55	56.00	-14.45	QP	Р	
6	1.5000	15.74	10.03	25.77	46.00	-20.23	AVG	Р	
7	4.5015	40.18	10.04	50.22	56.00	-5.78	QP	Р	
8	4.5015	19.87	10.04	29.91	46.00	-16.09	AVG	Р	
9	10.5045	39.07	9.96	49.03	60.00	-10.97	QP	Р	
10	10.5045	18.63	9.96	28.59	50.00	-21.41	AVG	Р	
11 *	14.2485	47.46	9.97	57.43	60.00	-2.57	QP	Р	
12	14.2485	27.70	9.97	37.67	50.00	-12.33	AVG	Р	



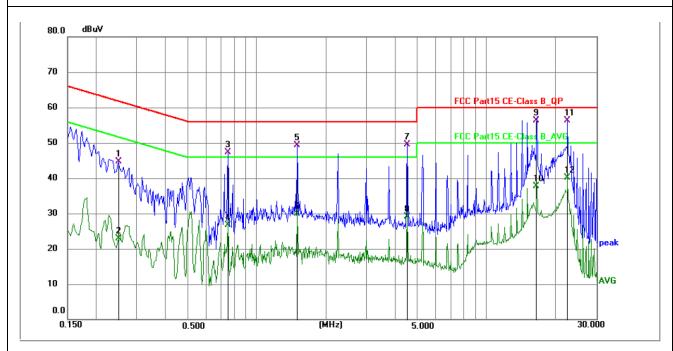
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### **Conducted Emission Test Data**

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle
Comments: Neutral Line

Model No.: H61A1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2490	34.67	10.00	44.67	61.79	-17.12	QP	Р	
2	0.2490	12.89	10.00	22.89	51.79	-28.90	AVG	Р	
3	0.7485	37.22	10.06	47.28	56.00	-8.72	QP	Р	
4	0.7485	16.67	10.06	26.73	46.00	-19.27	AVG	П	
5	1.5000	39.26	10.06	49.32	56.00	-6.68	QP	J	
6	1.5000	19.76	10.06	29.82	46.00	-16.18	AVG	П	
7	4.5015	39.55	10.05	49.60	56.00	-6.40	QP	J	
8	4.5015	19.01	10.05	29.06	46.00	-16.94	AVG	Р	
9	16.5029	46.22	10.02	56.24	60.00	-3.76	QP	П	
10	16.5029	27.75	10.02	37.77	50.00	-12.23	AVG	J	
11 *	22.5015	46.19	10.12	56.31	60.00	-3.69	QP	Р	
12	22.5015	29.95	10.12	40.07	50.00	-9.93	AVG	Р	



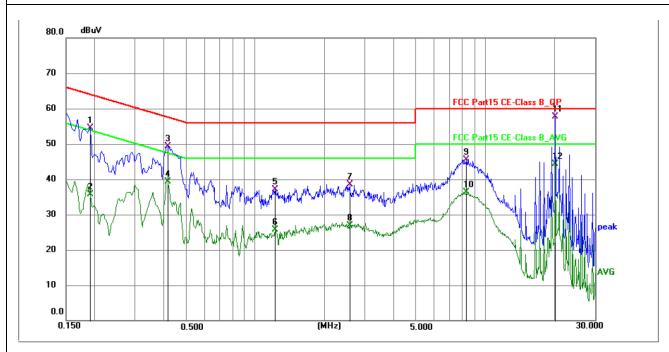
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### **Conducted Emission Test Data**

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle

Comments: Live Line Model No.: H61A2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	44.50	9.97	54.47	64.01	-9.54	QP	Р	
2	0.1905	25.71	9.97	35.68	54.01	-18.33	AVG	Р	
3	0.4155	39.35	10.02	49.37	57.54	-8.17	QP	Р	
4	0.4155	29.32	10.02	39.34	47.54	-8.20	AVG	Р	
5	1.2164	27.08	10.04	37.12	56.00	-18.88	QP	Ρ	
6	1.2164	15.74	10.04	25.78	46.00	-20.22	AVG	Р	
7	2.5800	28.49	10.04	38.53	56.00	-17.47	QP	Р	
8	2.5800	16.87	10.04	26.91	46.00	-19.09	AVG	Р	
9	8.2590	35.60	9.99	45.59	60.00	-14.41	QP	Р	
10	8.2590	26.39	9.99	36.38	50.00	-13.62	AVG	Р	
11 *	20.2515	47.54	10.08	57.62	60.00	-2.38	QP	Р	
12	20.2515	34.16	10.08	44.24	50.00	-5.76	AVG	Р	



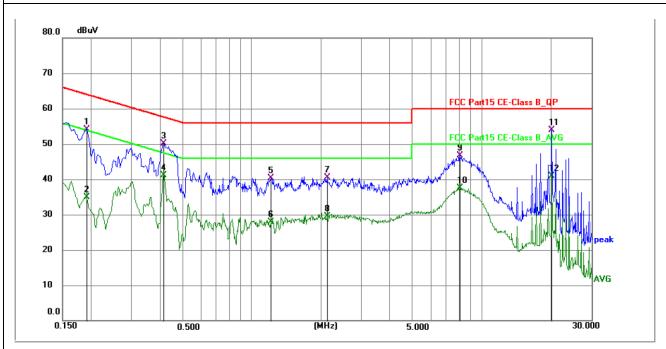
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### **Conducted Emission Test Data**

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle
Comments: Neutral Line

Model No.: H61A2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	44.20	9.99	54.19	64.01	-9.82	QP	Р	
2	0.1905	24.95	9.99	34.94	54.01	-19.07	AVG	Р	
3	0.4110	40.13	10.04	50.17	57.63	-7.46	QP	П	
4	0.4110	30.99	10.04	41.03	47.63	-6.60	AVG	Р	
5	1.2120	30.21	10.06	40.27	56.00	-15.73	QP	Р	
6	1.2120	17.92	10.06	27.98	46.00	-18.02	AVG	П	
7	2.1255	30.42	10.07	40.49	56.00	-15.51	QP	Р	
8	2.1255	19.41	10.07	29.48	46.00	-16.52	AVG	Ъ	
9	8.0610	36.69	10.02	46.71	60.00	-13.29	QP	J	
10	8.0610	27.40	10.02	37.42	50.00	-12.58	AVG	Р	
11 *	20.2470	43.90	10.08	53.98	60.00	-6.02	QP	П	
12	20.2470	30.79	10.08	40.87	50.00	-9.13	AVG	Р	-



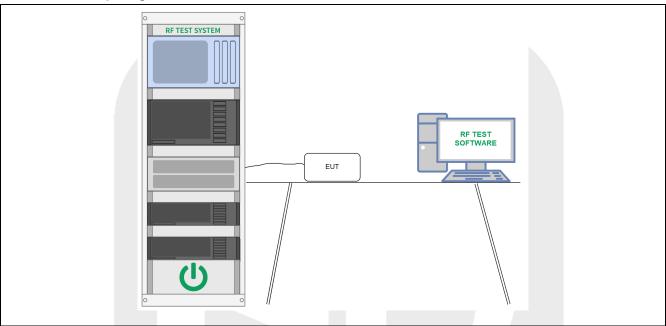
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### 5.3 DTS Bandwidth

#### 5.3.1 Test Requirement

Test Requirement	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method	ANSI C63.10-2020 section 11.8

#### 5.3.2 Test Setup Diagram



#### 5.3.3 Test Procedure

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW  $\geq$  [3 × RBW].
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 5.3.4 Test Data

### PASS.



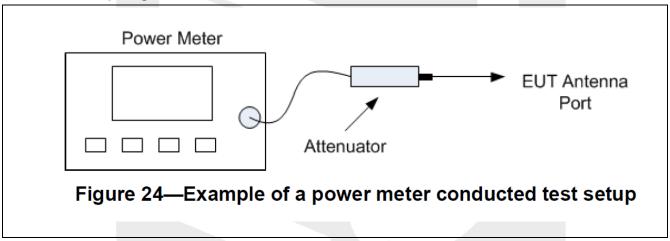
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### 5.4 Maximum Conducted Output Power

#### 5.4.1 Test Requirement

Test Requirement	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method	ANSI C63.10-2020 section 11.9

#### 5.4.2 Test Setup Diagram



### 5.4.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

### 5.4.4 Test Data

PASS.



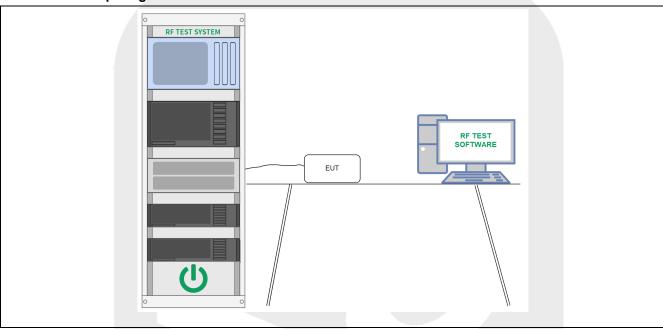
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### 5.5 Power Spectral Density

#### 5.5.1 Test Requirement

Test Requirement	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method	ANSI C63.10-2020 section 11.10

### 5.5.2 Test Setup Diagram



#### 5.5.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz  $\leq$  RBW  $\leq$  100 kHz.

Set the VBW  $\geq$  3 RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 5.5.4 Test Data

PASS.



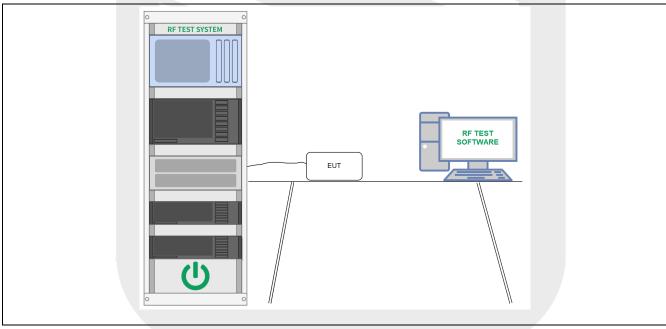
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# 5.6 Emissions in Non-restricted Frequency Bands (Conducted)

### 5.6.1 Test Requirement

Test Requirement	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method	ANSI C63.10-2020 section 11.11

### 5.6.2 Test Setup Diagram





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#### 5.6.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle  $\geq$  98%). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than  $\pm$  2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW  $\geq$  3 x RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission)  $\pm$  0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission  $\pm$  0.5 MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz. Video bandwidth: 300 kHz.

Detector: Peak. Trace: Max hold.

### 5.6.4 Test Data

#### PASS.



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# 5.7 Band Edge Emissions (Restricted frequency bands)

### 5.7.1 Test Requirement

5.7.1 Test Requireme		sianiana which fall in the		la as defined in C						
		nissions which fall in the		_						
Test Requirement	` '	omply with the radiated	emission limits :	specified in §						
	15.209(a)(see § 15.205	` ''		,						
	Frequency (MHz)	Field strength		Measurement						
		(microvolts/mete	r)	distance						
				(meters)						
	0.009-0.490	2400/F(kHz)		300						
	0.490-1.705	24000/F(kHz)		30						
	1.705-30.0	30		30						
	30-88	100 **		3						
	88-216	150 **		3						
	216-960	200 **		3						
	Above 960	500		3						
		n paragraph (g), fundam								
	radiators operating und	ler this section shall not	be located in th	e frequency bands						
	54-72 MHz, 76-88 MHz	z, 174-216 MHz or 470-8	306 MHz. Howe	ver, operation within						
	these frequency bands	is permitted under othe	r sections of thi	s part, e.g.,						
	§§ 15.231 and 15.241.									
	33									
	Restricted frequency ba	ands.								
	MHz	MHz	MHz	GHz						
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15						
	0.495-0.505	16.69475-16.69525	608-614	5.35-5.46						
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75						
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5						
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2						
Test Limit	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5						
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7						
	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4						
	0.04475.0.04005	400 400	0000 0000	44 47 44 5						
	6.31175-6.31225	123-138	2200-2300	14.47-14.5						
	8.291-8.294 8.362-8.366	149.9-150.05 156.52475-156.52525	2310-2390 2483.5-2500	15.35-16.2 17.7-21.4						
	8.302-8.300	130.32473-130.32323	2403.3-2300	17.7-21.4						
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12						
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0						
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8						
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5						
	12.57675-12.57725	322-335.4	3600-4400							
	13.36-13.41									
	Note:									
		//m) = 20*log[Field Stre	• /-							
		es above, the tighter limi								
		3) For Above 1000 MHz, the emission limit in this paragraph is based on								
	measurement instrumentation employing an average detector, measurement using									
	instrumentation with a peak detector function, corresponding to 20dB above the									
	maximum permitted average limit.									
	•	z, limit field strength of h	narmonics:							
		nd 74dBuV/m@3m (PK								
Test Method	ANSI C63.10-2020 sed		·/·							
I CSL IVICIIIUU	/ 11 101 000. 10-2020 360	11011 U.UT								

Tel: (86)-755-2357-9714 Email: Service@eu-test.com

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Spectrum Analyzer / Receiver

5.7.2 Test Setup Diagram

RX Antenna

Ant. feed point

1.5m

Metal Full Soldered Ground Plane

Pre-amp.

#### 5.7.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \ge 1$  GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold.

#### 5.7.4 Test Data

#### PASS.

Please refer to the following pages.



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### Band Edge Emissions (Restricted frequency bands):

Test Mode:	: GFSK(1Mbps	s)			CH Low: 24	02 MHz		
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	2310.00	44.44	-2.81	41.63	74.00	-32.37	PK	PASS
Н	2390.00	47.87	-2.69	45.18	74.00	-28.82	PK	PASS
Н	**2400.00	64.12	-2.68	61.44	74.00	-12.56	PK	PASS
V	2310.00	45.54	-2.81	42.73	74.00	-31.27	PK	PASS
V	2390.00	46.53	-2.69	43.84	74.00	-30.16	PK	PASS
V	**2400.00	63.71	-2.68	61.03	74.00	-12.97	PK	PASS
Н	2310.00	32.63	-2.81	29.82	54.00	-24.18	AV	PASS
Н	2390.00	34.83	-2.69	32.14	54.00	-21.86	AV	PASS
Н	**2400.00	48.11	-2.68	45.43	54.00	-8.57	AV	PASS
V	2310.00	32.18	-2.81	29.37	54.00	-24.63	AV	PASS
V	2390.00	36.27	-2.69	33.58	54.00	-20.42	AV	PASS
V	**2400.00	47.61	-2.68	44.93	54.00	-9.07	AV	PASS

Test Mode:	: GFSK(1Mbps	5)			CH High: 24	480 MHz		
	Frequency	Reading	Factor	Emission	Limit	Margin	Detector	
Pol.	(MHz)	(dBuV)	(dB/m)	level	(dBuV/m)	(dB)	Type	Result
	(1411 12)	(abav)	(aB/III)	(dBuV/m)	(aBa v/iii)	(42)	1,750	
Н	**2483.50	48.70	-2.56	46.14	74.00	-27.86	PK	PASS
Н	2500.00	52.52	-2.54	49.98	74.00	-24.02	PK	PASS
V	**2483.50	46.89	-2.56	44.33	74.00	-29.67	PK	PASS
V	2500.00	52.14	-2.54	49.60	74.00	-24.40	PK	PASS
Н	**2483.50	36.14	-2.56	33.58	54.00	-20.42	AV	PASS
Н	2500.00	41.96	-2.54	39.42	54.00	-14.58	AV	PASS
V	**2483.50	39.70	-2.56	37.14	54.00	-16.86	AV	PASS
V	2500.00	39.52	-2.54	36.98	54.00	-17.02	AV	PASS

<sup>1.</sup> Emission Level = Reading + Factor, Margin= Emission Level – Limit.



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# 5.8 Radiated Spurious Emission

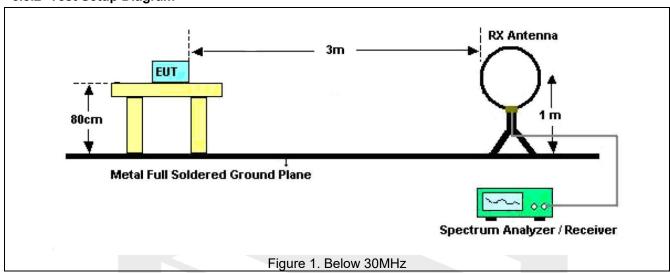
### 5.8.1 Test Requirement

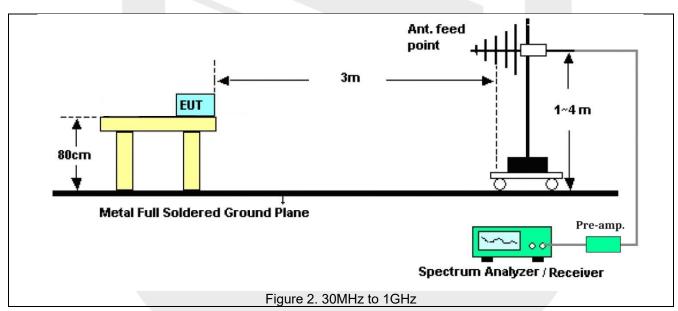
		in an analysis land fall in the annual manager of the co	de es defined in C						
	•	ions which fall in the restricted ban							
Test Requirement		ly with the radiated emission limits	specified in §						
	15.209(a)(see § 15.205(c))	). <sub>_</sub>							
	Frequency (MHz)	Field strength	Measurement						
		(microvolts/meter)	distance						
			(meters)						
	0.009-0.490	2400/F(kHz)	300						
	0.490-1.705	24000/F(kHz)	30						
	1.705-30.0	30	30						
	30-88	100 **	3						
	88-216	150 **	3						
	216-960	200 **	3						
	Above 960 500 3								
	** Except as provided in paragraph (g), fundamental emissions from intentional								
	radiators operating under this section shall not be located in the frequency bands								
Test Limit	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within								
	these frequency bands is permitted under other sections of this part, e.g.,								
	§§ 15.231 and 15.241.								
	98 15.231 and 15.241.								
		= 20*log[Field Strength (μV/m)].							
			hand addes						
	2) In the emission tables above, the tighter limit applies at the band edges.								
		ne emission limit in this paragraph							
		tion employing an average detecto							
	instrumentation with a peak detector function, corresponding to 20dB above the								
	maximum permitted average limit.								
	4) For above 1000 MHz, limit field strength of harmonics:								
	54dBuV/m@3m (AV) and	74dBuV/m@3m (PK).							
Test Method	ANSI C63.10-2020 section								

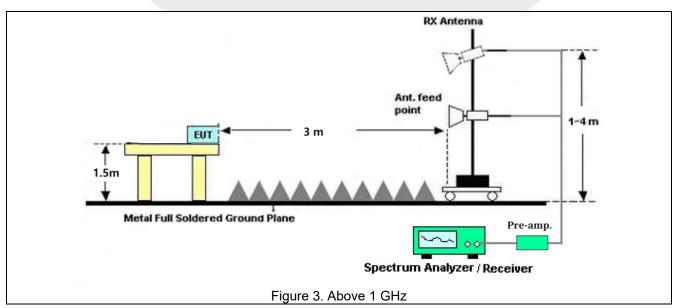




### 5.8.2 Test Setup Diagram







### SHENZHEN EU TESTING LABORATORY LIMITED

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#### 5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

#### 5.8.4 Test Data

### PASS.

Please to see the following pages.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For test of 30MHz-1GHz, during the test, pre-scan all test modes, and found the BLE 1M mode is worse case, the report only record this mode.

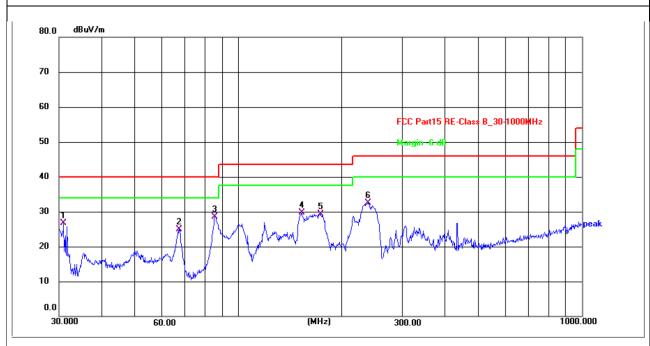
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### Radiated Emission Test Data (30-1000MHz)

Test Site: 966 Chamber #1 Polarization: Horizontal

Distance: 3m Test Mode: TM1/ CH High

Model No.: H61A0



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.9619	43.65	-16.91	26.74	40.00	-13.26	QP	Р	
2	67.2022	41.98	-16.99	24.99	40.00	-15.01	QP	Р	
3 *	85.2980	47.14	-18.66	28.48	40.00	-11.52	QP	П	
4	152.6641	48.18	-18.50	29.68	43.50	-13.82	QP	Р	
5	173.2051	46.26	-17.00	29.26	43.50	-14.24	QP	Р	
6	238.3102	46.22	-13.73	32.49	46.00	-13.51	QP	Р	

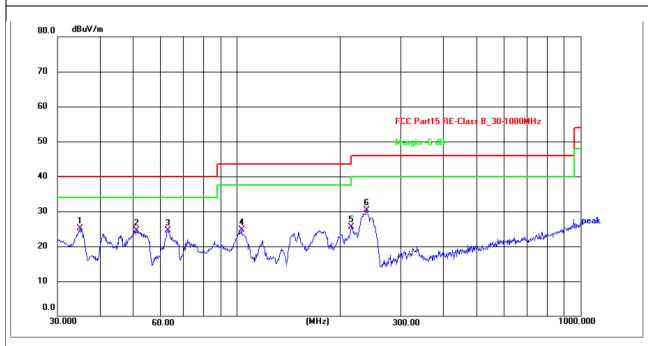
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### Radiated Emission Test Data (30-1000MHz)

Test Site: 966 Chamber #1 Polarization: Vertical

Distance: 3m Test Mode: TM1/ CH High

Model No.: H61A0



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	34.8823	41.99	-16.82	25.17	40.00	-14.83	QP	П	
2	50.9420	38.73	-14.24	24.49	40.00	-15.51	QP	П	
3	62.8708	40.39	-15.87	24.52	40.00	-15.48	QP	П	
4	103.0800	40.54	-15.91	24.63	43.50	-18.87	QP	П	
5	215.2678	40.12	-14.59	25.53	43.50	-17.97	QP	Р	
6	238.3102	44.08	-13.87	30.21	46.00	-15.79	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit

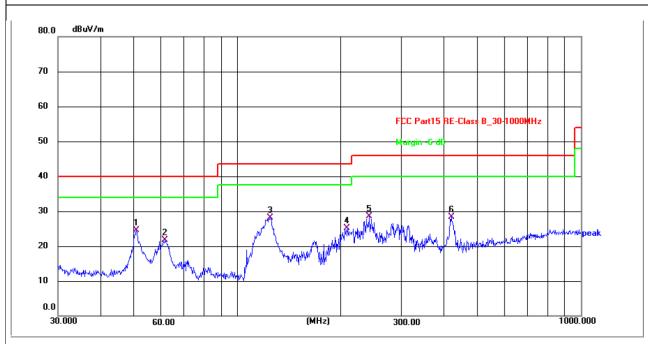
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### Radiated Emission Test Data (30-1000MHz)

Test Site: 966 Chamber #1 Polarization: Horizontal

Distance: 3m Test Mode: TM1/ CH High

Model No.: H61A1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	50.7637	38.74	-14.22	24.52	40.00	-15.48	QP	Р	
2	61.5618	37.31	-15.68	21.63	40.00	-18.37	QP	Р	
3 *	124.5690	45.25	-17.18	28.07	43.50	-15.43	QP	А	
4	209.3129	39.84	-14.73	25.11	43.50	-18.39	QP	П	
5	241.6763	42.11	-13.62	28.49	46.00	-17.51	QP	Р	
6	419.1081	38.03	-9.63	28.40	46.00	-17.60	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit

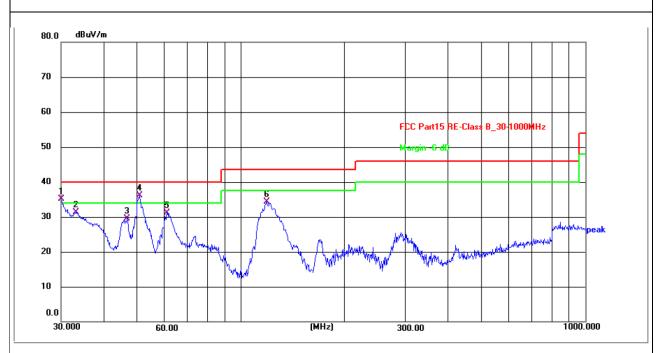
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### Radiated Emission Test Data (30-1000MHz)

Test Site: 966 Chamber #1 Polarization: Vertical

Distance: 3m Test Mode: TM1/ CH High

Model No.: H61A1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	30.0000	52.04	-16.94	35.10	40.00	-4.90	QP	Р	
2	33.0950	48.25	-16.87	31.38	40.00	-8.62	QP	П	
3	46.6664	43.80	-14.21	29.59	40.00	-10.41	QP	П	
4 *	50.7637	50.36	-14.22	36.14	40.00	-3.86	QP	П	
5	60.9176	46.64	-15.59	31.05	40.00	-8.95	QP	J	
6	118.6014	51.07	-16.84	34.23	43.50	-9.27	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit

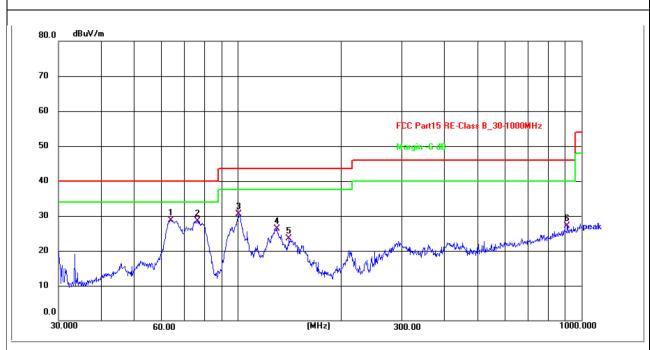
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### Radiated Emission Test Data (30-1000MHz)

Test Site: 966 Chamber #1 Polarization: Horizontal

Distance: 3m Test Mode: TM1/ CH High

Model No.: H61A2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	63.7588	44.65	-16.00	28.65	40.00	-11.35	QP	П	
2	76.2442	47.78	-19.27	28.51	40.00	-11.49	QP	П	
3	100.9339	46.24	-15.78	30.46	43.50	-13.04	QP	П	
4	129.9226	43.81	-17.50	26.31	43.50	-17.19	QP	J	
5	140.8351	41.62	-18.15	23.47	43.50	-20.03	QP	Р	
6	909.6667	29.04	-1.94	27.10	46.00	-18.90	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit

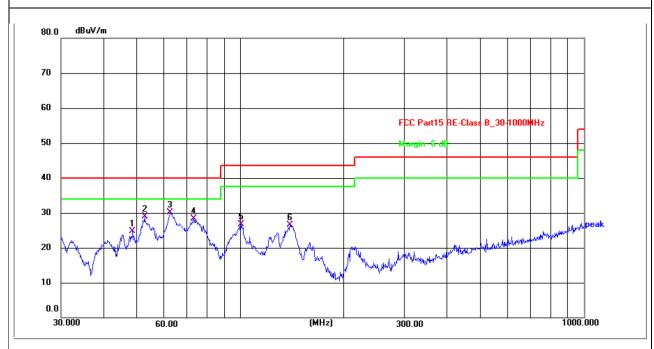
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### Radiated Emission Test Data (30-1000MHz)

Test Site: 966 Chamber #1 Polarization: Vertical

Distance: 3m Test Mode: TM1/ CH High

Model No.: H61A2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	48.5016	38.84	-14.19	24.65	40.00	-15.35	QP	Р	
2	52.5753	43.18	-14.35	28.83	40.00	-11.17	QP	П	
3 *	62.4314	45.92	-15.81	30.11	40.00	-9.89	QP	J	
4	73.1025	47.07	-18.71	28.36	40.00	-11.64	QP	J	
5	100.2286	42.40	-15.75	26.65	43.50	-16.85	QP	J	
6	139.3613	44.50	-18.06	26.44	43.50	-17.06	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit



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Radiated Spurious Emission (1GHz-25GHz)

	lode: TX-GFS	SK	<u> </u>		CH Low: 24	l02 MHz		
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4804.54	40.82	4.68	45.50	74.00	-28.51	PK	PASS
V	7206.18	35.87	9.84	45.71	74.00	-28.30	PK	PASS
V	9608.56	28.43	13.17	41.60	74.00	-32.41	PK	PASS
V	12010.31	*	*	*	74.00	*	PK	PASS
V	14412.40	*	*	*	74.00	*	PK	PASS
V	16814.16	*	*	*	74.00	*	PK	PASS
Н	4804.49	40.80	4.68	45.48	74.00	-28.52	PK	PASS
Н	7206.98	35.28	9.84	45.12	74.00	-28.88	PK	PASS
Н	9608.75	29.14	13.17	42.31	74.00	-31.70	PK	PASS
Н	12010.31	*	*	*	74.00	*	PK	PASS
Н	14412.68	*	*	*	74.00	*	PK	PASS
Н	16814.88	*	*	*	74.00	*	PK	PASS
V	4804.79	32.22	4.68	36.90	54.00	-17.11	AV	PASS
V	7206.56	22.88	9.84	32.72	54.00	-21.28	AV	PASS
V	9608.18	17.72	13.17	30.89	54.00	-23.12	AV	PASS
V	12010.83	*	*	*	54.00	*	AV	PASS
V	14412.33	*	*	*	54.00	*	AV	PASS
V	16814.58	*	*	*	54.00	*	AV	PASS
Н	4804.17	31.13	4.68	35.81	54.00	-18.20	AV	PASS
Н	7206.98	24.75	9.84	34.59	54.00	-19.42	AV	PASS
Н	9608.75	17.04	13.17	30.21	54.00	-23.79	AV	PASS
Н	12010.31	*	*	*	54.00	*	AV	PASS
Н	14412.68	*	*	*	54.00	*	AV	PASS
Н	16814.88	*	*	*	54.00	*	AV	PASS

### Remark:

<sup>1.</sup> Emission Level = Reading + Factor, Margin= Emission Level – Limit.

<sup>2. &</sup>quot;\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Radiated Spurious Emission (1GHz-25GHz)

	Node: TX-GFS	SK	<u> </u>		CH Middle:	2440 MHz		
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4880.59	42.43	4.92	47.35	74.00	-26.65	PK	PASS
V	7320.61	33.83	9.83	43.66	74.00	-30.35	PK	PASS
V	9760.59	29.83	13.22	43.05	74.00	-30.96	PK	PASS
V	12200.71	*	*	*	74.00	*	PK	PASS
V	14640.71	*	*	*	74.00	*	PK	PASS
V	17080.04	*	*	*	74.00	*	PK	PASS
Н	4880.83	42.54	4.92	47.46	74.00	-26.54	PK	PASS
Н	7320.31	35.36	9.83	45.19	74.00	-28.82	PK	PASS
Н	9760.84	29.23	13.22	42.45	74.00	-31.55	PK	PASS
Н	12200.68	*	*	*	74.00	*	PK	PASS
Н	14640.19	*	*	*	74.00	*	PK	PASS
Н	17080.86	*	*	*	74.00	*	PK	PASS
V	4880.73	32.38	4.92	37.30	54.00	-16.71	AV	PASS
V	7320.75	22.40	9.83	32.23	54.00	-21.78	AV	PASS
V	9760.82	17.99	13.22	31.21	54.00	-22.80	AV	PASS
V	12200.31	*	*	*	54.00	*	AV	PASS
V	14640.64	*	*	*	54.00	*	AV	PASS
V	17080.73	*	*	*	54.00	*	AV	PASS
Н	4880.83	30.80	4.92	35.72	54.00	-18.29	AV	PASS
Н	7320.31	23.25	9.83	33.08	54.00	-20.92	AV	PASS
Н	9760.84	17.87	13.22	31.09	54.00	-22.92	AV	PASS
Н	12200.68	*	*	*	54.00	*	AV	PASS
Н	14640.19	*	*	*	54.00	*	AV	PASS
Н	17080.86	*	*	*	54.00	*	AV	PASS

#### Remark:

<sup>1.</sup> Emission Level = Reading + Factor, Margin= Emission Level – Limit.

<sup>2. &</sup>quot;\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Radiated Spurious Emission (1GHz-25GHz)

Test Mode: TX-GFSK					CH High: 2480 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4960.70	42.67	5.17	47.84	74.00	-26.16	PK	PASS
V	7440.61	34.26	9.83	44.09	74.00	-29.91	PK	PASS
V	9920.03	30.86	13.27	44.13	74.00	-29.87	PK	PASS
V	12400.98	*	*	*	74.00	*	PK	PASS
V	14880.86	*	*	*	74.00	*	PK	PASS
V	17360.38	*	*	*	74.00	*	PK	PASS
Н	4960.61	40.45	5.17	45.62	74.00	-28.39	PK	PASS
Н	7440.72	34.15	9.83	43.98	74.00	-30.02	PK	PASS
Н	9920.95	28.12	13.27	41.39	74.00	-32.62	PK	PASS
Н	12400.48	*	*	*	74.00	*	PK	PASS
Н	14880.71	*	*	*	74.00	*	PK	PASS
Н	17360.55	*	*	*	74.00	*	PK	PASS
V	4960.38	32.49	5.17	37.66	54.00	-16.34	AV	PASS
V	7440.16	23.56	9.83	33.39	54.00	-20.62	AV	PASS
V	9920.04	18.17	13.27	31.44	54.00	-22.57	AV	PASS
V	12400.96	*	*	*	54.00	*	AV	PASS
V	14880.00	*	*	*	54.00	*	AV	PASS
V	17360.50	*	*	*	54.00	*	AV	PASS
Н	4960.61	32.30	5.17	37.47	54.00	-16.53	AV	PASS
Н	7440.72	22.07	9.83	31.90	54.00	-22.10	AV	PASS
Н	9920.95	18.96	13.27	32.23	54.00	-21.77	AV	PASS
Н	12400.48	*	*	*	54.00	*	AV	PASS
Н	14880.71	*	*	*	54.00	*	AV	PASS
Н	17360.55	*	*	*	54.00	*	AV	PASS

#### Remark:

<sup>1.</sup> Emission Level = Reading + Factor, Margin= Emission Level – Limit.

<sup>2. &</sup>quot;\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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### ANNEX A TEST SETUP PHOTOS

Please refer to the document "8236EU011204W-AA.PDF"

### ANNEX B EXTERNAL PHOTOS

Please refer to the document "8236EU011204W-AB.PDF"

### ANNEX C INTERNAL PHOTOS

Please refer to the document "8236EU011204W-AC.PDF"

### ANNEX D TEST DATA

Please refer to the document "8236EU011204W-AD.PDF"



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### **STATEMENT**

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--- End of Report ---